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

DATA PACKAGE

SEMI-VOLATILE ORGANICS

PROJECT NAME : RAYMARK SUPERFUND SITE

NOBIS GROUP

585 Middlesex Street

Lowell, MA - 01851

Phone No: 978-683-0891

ORDER ID : Q1984

ATTENTION : Adam Roy

Laboratory Certification ID # 20012

Table Of Contents for Q1984

1) SEMI-VOLATILE DATA 2
2) Signature Page 4
3) Case Narrative 5
4) Qualifier Page 8
5) Conformance/Non Conformance 9
6) QA Checklist 12
7) Chronicle 13
8) Hit Summary 14
9) QC Data Summary For SVOCMS Group3 15
9.1) Deuterated Monitoring Compound Summary 16
9.2) MS/MSD Summary 18
9.3) LCS/LCSD Summary 22
9.4) Method Blank Summary 24
9.5) GS/MS Tune Summary 26
9.6) Internal Standard Area and RT Summary 30
10) Sample Data 36
10.1) OU4-PCS-TC-33-050725 37
10.2) OU4-PCS-TC-34-050725 51
10.3) OU4-PCS-TC-35-050725 65
10.4) OU4-TS-24-050725 79
10.5) OU4-TS-25-050725 93
10.6) OU4-TS-26-050725 107
10.7) OU4-TS-27-050725 122
10.8) OU4-TS-27-050725RX 141
10.9) OU4-TS-28-050725 151
11) Calibration Data Summary 166
11.1) Initial Calibration Data 3
11.1.1) BP051325 3
11.2) Continued Calibration Data 575
11.2.1) BP024634.D 575
11.2.2) BP024649.D 631
11.2.3) BP024703.D 687
11.2.4) BP024718.D 743
11.2.5) BP024720.D 799
11.2.6) BP024735.D 855

Table Of Contents for Q1984

12) QC Sample Data 911

12.1) Tune Raw Data 912

12.2) Method Blank Data 928

12.3) LCS Data 956

12.4) MS Data 1058

12.5) MSD Data 1160

13) Manual Integration 1262

14) Analytical Runlogs 1266

15) Percent Solid 1275

16) Extraction Logs 1286

16.1) PB167973.pdf 1286

16.2) PB167973IC.pdf 1288

16.3) PB168052.pdf 1289

16.4) PB168052IC.pdf 1292

17) Standard Prep Logs 1293

18) Shipping Document 1454

18.1) Chain Of Custody 1455

18.2) Lab Certificate 1456

18.3) Internal COC 1457

19) Not Reviewed Data 1459

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

Cover Page

Order ID : Q1984

Project ID : Raymark Superfund Site

Client : Nobis Group

Lab Sample Number	Client Sample Number
Q1984-01	OU4-PCS-TC-33-050725
Q1984-02	OU4-PCS-TC-33-050725
Q1984-03	OU4-PCS-TC-34-050725
Q1984-04	OU4-PCS-TC-34-050725
Q1984-05	OU4-PCS-TC-35-050725
Q1984-06	OU4-PCS-TC-35-050725
Q1984-07	OU4-TS-24-050725
Q1984-08	OU4-TS-24-050725
Q1984-09	OU4-TS-25-050725
Q1984-10	OU4-TS-25-050725
Q1984-11	OU4-TS-26-050725
Q1984-12	OU4-TS-26-050725
Q1984-13	OU4-TS-27-050725
Q1984-14	OU4-TS-27-050725
Q1984-15	OU4-TS-28-050725
Q1984-16	OU4-TS-28-050725
Q1984-19	OU4-TB01-050725

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 : APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:41 pm, May 23, 2025

Date: 5/23/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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

CASE NARRATIVE

Nobis Group
Project Name: Raymark Superfund Site
Project # N/A
Order ID # Q1984
Test Name: SVOCMS Group3

A. Number of Samples and Date of Receipt:
17 Solid samples were received on 05/08/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Cyanide, Herbicide Group1, Mercury, Metals ICP-TAL, METALS-TAL, PCB, Pesticide-TCL, SPLP Extraction, SPLP Mercury, SPLP MetalGroup3, SVOCMS Group3, VOCMS Group1 and VOCMS Group3. This data package contains results for SVOCMS Group3.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_P using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOCMS Group3 was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for,
OU4-TS-24-050725 [Terphenyl-d14 - 46%],
OU4-TS-25-050725 [Terphenyl-d14 - 43%],
OU4-TS-26-050725 [Terphenyl-d14 - 40%],
OU4-TS-28-050725 [Terphenyl-d14 - 44%],
TP-13MS [Terphenyl-d14 - 49%],
TP-13MSD [Terphenyl-d14 - 50%],
TP-13MS [Terphenyl-d14 - 49%],
TP-13MSD [Terphenyl-d14 - 50%], As per SOW one Base surrogate is allowed to fail, Therefore no further corrective action was taken.

and

OU4-TS-27-050725 [2-Fluorobiphenyl - 41%, Terphenyl-d14 - 35%],
OU4-TS-27-050725RX [2-Fluorobiphenyl - 42%, Terphenyl-d14 - 40%], Sample was re extracted to confirm surrogate failure, Both the analysis were reported for the hardcopy.

and

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

L2-WC-5MS [2-Fluorobiphenyl - 37%, Nitrobenzene-d5 - 35%, Terphenyl-d14 - 38%], L2-WC-5MSD [2-Fluorobiphenyl - 37%, Nitrobenzene-d5 - 34%, Terphenyl-d14 - 40%]. Base surrogates are biased low in the proving matrix interference. Hence no corrective action is required.

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.

E. Additional Comments:
As per special requirement for this project form-1 are reported in mg/kg.
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.
The soil samples results are based on a dry weight basis.
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.

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

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 APPROVED
By Nimisha Pandya, QA/QC Supervisor at 1:42 pm, May 23, 2025

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

ORDER ID: Q1984 MATRIX: Solid

METHOD: 8270E/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements. The Continuous Calibration met the requirements.			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	

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

(CONTINUED)

		NA	NO	YES
7.	Surrogate Recoveries Meet Criteria			✓

If not met, list those compounds and their recoveries which fall outside the acceptable ranges.

The Surrogate recoveries met the acceptable criteria except for The Surrogate recoveries met the acceptable criteria except for,
OU4-TS-24-050725 [Terphenyl-d14 - 46%],
OU4-TS-25-050725 [Terphenyl-d14 - 43%],
OU4-TS-26-050725 [Terphenyl-d14 - 40%],
OU4-TS-28-050725 [Terphenyl-d14 - 44%],
TP-13MS [Terphenyl-d14 - 49%],
TP-13MSD [Terphenyl-d14 - 50%],
TP-13MS [Terphenyl-d14 - 49%],
TP-13MSD [Terphenyl-d14 - 50%], As per SOW one Base surrogate is allowed to fail, Therefore no further corrective action was taken.

and

OU4-TS-27-050725 [2-Fluorobiphenyl - 41%, Terphenyl-d14 - 35%],
OU4-TS-27-050725RX [2-Fluorobiphenyl - 42%, Terphenyl-d14 - 40%], Sample was re extracted to confirm surrogate failure, Both the analysis were reported for the hardcopy.

and

L2-WC-5MS [2-Fluorobiphenyl - 37%, Nitrobenzene-d5 - 35%, Terphenyl-d14 - 38%], L2-WC-5MSD [2-Fluorobiphenyl - 37%, Nitrobenzene-d5 - 34%, Terphenyl-d14 - 40%].Base surrogates are biased low in the proving matrix interference. Hence no corrective action is required.

8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓

If not met, list those compounds and their recoveries which fall outside the acceptable range.

The Blank Spike met requirements for all samples.

9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓

Comments:

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

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

ADDITIONAL COMMENTS:

As per special requirement for this project form-1 are reported in mg/kg.

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.

The soil samples results are based on a dry weight basis.

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

REVIEWED
By Sohil Jodhani, QA/QC Director at 1:19 pm, May 23, 2025

Date

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

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1984

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

QA Review Signature: SOHIL JODHANI **Date:** 05/23/2025

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

LAB CHRONICLE

OrderID:	Q1984	**OrderDate:**	5/8/2025 10:48:00 AM
Client:	Nobis Group	**Project:**	Raymark Superfund Site
Contact:	Adam Roy	**Location:**	L41,VOA Ref. #2 Soil,VOA Ref. #3 Water

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1984-01	**OU4-PCS-TC-33-050725**	**SOIL**			**05/07/25**			**05/08/25**
			SVOCMS Group3	8270E		05/13/25	05/15/25	
Q1984-03	**OU4-PCS-TC-34-050725**	**SOIL**			**05/07/25**			**05/08/25**
			SVOCMS Group3	8270E		05/19/25	05/21/25	
Q1984-05	**OU4-PCS-TC-35-050725**	**SOIL**			**05/07/25**			**05/08/25**
			SVOCMS Group3	8270E		05/13/25	05/15/25	
Q1984-07	**OU4-TS-24-050725**	**SOIL**			**05/07/25**			**05/08/25**
			SVOCMS Group3	8270E		05/13/25	05/15/25	
Q1984-09	**OU4-TS-25-050725**	**SOIL**			**05/07/25**			**05/08/25**
			SVOCMS Group3	8270E		05/19/25	05/21/25	
Q1984-11	**OU4-TS-26-050725**	**SOIL**			**05/07/25**			**05/08/25**
			SVOCMS Group3	8270E		05/13/25	05/15/25	
Q1984-13	**OU4-TS-27-050725**	**SOIL**			**05/07/25**			**05/08/25**
			SVOCMS Group3	8270E		05/13/25	05/15/25	
Q1984-13RX	**OU4-TS-27-050725RX**	**SOIL**			**05/07/25**			**05/08/25**
			SVOCMS Group3	8270E		05/19/25	05/21/25	
Q1984-15	**OU4-TS-28-050725**	**SOIL**			**05/07/25**			**05/08/25**
			SVOCMS Group3	8270E		05/13/25	05/15/25	

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

Hit Summary Sheet
SW-846

SDG No.: Q1984

Client: Nobis Group

Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	LOD	RDL	Units
Client ID :	**OU4-TS-27-050725**								
Q1984-13	OU4-TS-27-050725	SOIL	Phenanthrene	0.150	J	0.033	0.21	0.27	mg/Kg
Q1984-13	OU4-TS-27-050725	SOIL	Fluoranthene	0.290		0.048	0.21	0.27	mg/Kg
Q1984-13	OU4-TS-27-050725	SOIL	Pyrene	0.220	J	0.058	0.21	0.27	mg/Kg
Q1984-13	OU4-TS-27-050725	SOIL	Benzo(a)anthracene	0.120	J	0.037	0.21	0.27	mg/Kg
Q1984-13	OU4-TS-27-050725	SOIL	Chrysene	0.130	J	0.032	0.21	0.27	mg/Kg
Q1984-13	OU4-TS-27-050725	SOIL	Benzo(b)fluoranthene	0.170	J	0.030	0.21	0.27	mg/Kg
Q1984-13	OU4-TS-27-050725	SOIL	Benzo(a)pyrene	0.110	J	0.047	0.21	0.27	mg/Kg
			Total Svoc :	**1.19**					
			Total Concentration:	**1.19**					

QC SUMMARY

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

Surrogate Summary

SW-846

SDG No.: Q1984

Client: Nobis Group

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB167973BL	PB167973BL	Nitrobenzene-d5	100	82.1	82		37	122
		2-Fluorobiphenyl	100	78.7	79		44	115
		Terphenyl-d14	100	84.5	85		54	127
PB167973BS	PB167973BS	Nitrobenzene-d5	100	75.8	76		37	122
		2-Fluorobiphenyl	100	74.5	74		44	115
		Terphenyl-d14	100	76.0	76		54	127
Q1984-01	OU4-PCS-TC-33-050725	Nitrobenzene-d5	100	51.5	51		37	122
		2-Fluorobiphenyl	100	56.8	57		44	115
		Terphenyl-d14	100	60.1	60		54	127
Q1984-05	OU4-PCS-TC-35-050725	Nitrobenzene-d5	100	49.0	49		37	122
		2-Fluorobiphenyl	100	55.4	55		44	115
		Terphenyl-d14	100	54.5	55		54	127
Q1984-07	OU4-TS-24-050725	Nitrobenzene-d5	100	46.8	47		37	122
		2-Fluorobiphenyl	100	47.0	47		44	115
		Terphenyl-d14	100	45.8	46	*	54	127
Q1984-11	OU4-TS-26-050725	Nitrobenzene-d5	100	45.7	46		37	122
		2-Fluorobiphenyl	100	44.9	45		44	115
		Terphenyl-d14	100	39.8	40	*	54	127
Q1984-13	OU4-TS-27-050725	Nitrobenzene-d5	100	48.5	49		37	122
		2-Fluorobiphenyl	100	40.8	41	*	44	115
		Terphenyl-d14	100	35.0	35	*	54	127
Q1984-15	OU4-TS-28-050725	Nitrobenzene-d5	100	51.3	51		37	122
		2-Fluorobiphenyl	100	44.6	45		44	115
		Terphenyl-d14	100	43.8	44	*	54	127
Q2010-02MS	TP-13MS	Nitrobenzene-d5	100	50.9	51		37	122
		2-Fluorobiphenyl	100	50.9	51		44	115
		Terphenyl-d14	100	48.7	49	*	54	127
Q2010-02MSD	TP-13MSD	Nitrobenzene-d5	100	52.4	52		37	122
		2-Fluorobiphenyl	100	50.9	51		44	115
		Terphenyl-d14	100	49.8	50	*	54	127

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

Surrogate Summary

SW-846

SDG No.: Q1984

Client: Nobis Group

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB168052BL	PB168052BL	Nitrobenzene-d5	100	80.0	80		37	122
		2-Fluorobiphenyl	100	81.0	81		44	115
		Terphenyl-d14	100	88.7	89		54	127
PB168052BS	PB168052BS	Nitrobenzene-d5	100	72.8	73		37	122
		2-Fluorobiphenyl	100	75.8	76		44	115
		Terphenyl-d14	100	78.6	79		54	127
Q1984-03	OU4-PCS-TC-34-050725	Nitrobenzene-d5	100	47.6	48		37	122
		2-Fluorobiphenyl	100	52.6	53		44	115
		Terphenyl-d14	100	54.7	55		54	127
Q1984-09	OU4-TS-25-050725	Nitrobenzene-d5	100	44.9	45		37	122
		2-Fluorobiphenyl	100	44.9	45		44	115
		Terphenyl-d14	100	42.8	43	*	54	127
Q1984-13RX	OU4-TS-27-050725RX	Nitrobenzene-d5	100	42.7	43		37	122
		2-Fluorobiphenyl	100	41.9	42	*	44	115
		Terphenyl-d14	100	40.3	40	*	54	127
Q2071-13MS	L2-WC-5MS	Nitrobenzene-d5	100	34.6	35	*	37	122
		2-Fluorobiphenyl	100	37.0	37	*	44	115
		Terphenyl-d14	100	38.1	38	*	54	127
Q2071-13MSD	L2-WC-5MSD	Nitrobenzene-d5	100	34.0	34	*	37	122
		2-Fluorobiphenyl	100	36.6	37	*	44	115
		Terphenyl-d14	100	39.6	40	*	54	127

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1984

Client: Nobis Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2010-02MS		**Client Sample ID: TP-13MS**						**DataFile: BP024638.D**			
Naphthalene	2000	0	1800	ug/Kg	90				35	123	
2-Methylnaphthalene	2000	0	1700	ug/Kg	85				38	122	
Acenaphthylene	2000	0	1800	ug/Kg	90				32	132	
Acenaphthene	2000	0	1800	ug/Kg	90				40	123	
Fluorene	2000	0	1800	ug/Kg	90				43	125	
Phenanthrene	2000	0	1800	ug/Kg	90				50	121	
Anthracene	2000	0	1800	ug/Kg	90				47	123	
Fluoranthene	2000	0	1800	ug/Kg	90				50	127	
Pyrene	2000	0	1900	ug/Kg	95				47	127	
Benzo(a)anthracene	2000	0	1800	ug/Kg	90				49	126	
Chrysene	2000	0	1800	ug/Kg	90				50	124	
Benzo(b)fluoranthene	2000	0	1900	ug/Kg	95				45	132	
Benzo(k)fluoranthene	2000	0	1800	ug/Kg	90				47	132	
Benzo(a)pyrene	2000	0	1900	ug/Kg	95				45	129	
Indeno(1,2,3-cd)pyrene	2000	0	1900	ug/Kg	95				45	133	
Dibenz(a,h)anthracene	2000	0	1900	ug/Kg	95				45	134	
Benzo(g,h,i)perylene	2000	0	1900	ug/Kg	95				43	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.: Q1984

Client: Nobis Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2010-02MSD		**Client Sample ID: TP-13MSD**						**DataFile: BP024639.D**			
Naphthalene	2000	0	1800	ug/Kg	90	0			35	123	20
2-Methylnaphthalene	2000	0	1800	ug/Kg	90	6			38	122	20
Acenaphthylene	2000	0	1800	ug/Kg	90	0			32	132	20
Acenaphthene	2000	0	1800	ug/Kg	90	0			40	123	20
Fluorene	2000	0	1800	ug/Kg	90	0			43	125	20
Phenanthrene	2000	0	1800	ug/Kg	90	0			50	121	20
Anthracene	2000	0	1800	ug/Kg	90	0			47	123	20
Fluoranthene	2000	0	1800	ug/Kg	90	0			50	127	20
Pyrene	2000	0	1900	ug/Kg	95	0			47	127	20
Benzo(a)anthracene	2000	0	1900	ug/Kg	95	5			49	126	20
Chrysene	2000	0	1800	ug/Kg	90	0			50	124	20
Benzo(b)fluoranthene	2000	0	1900	ug/Kg	95	0			45	132	20
Benzo(k)fluoranthene	2000	0	1800	ug/Kg	90	0			47	132	20
Benzo(a)pyrene	2000	0	1900	ug/Kg	95	0			45	129	20
Indeno(1,2,3-cd)pyrene	2000	0	1900	ug/Kg	95	0			45	133	20
Dibenz(a,h)anthracene	2000	0	1900	ug/Kg	95	0			45	134	20
Benzo(g,h,i)perylene	2000	0	1900	ug/Kg	95	0			43	134	20

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

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1984

Client: Nobis Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2071-13MS		**Client Sample ID: L2-WC-5MS**						**DataFile: BP024710.D**			
Naphthalene	1200	0	980	ug/Kg	82				35	123	
2-Methylnaphthalene	1200	0	960	ug/Kg	80				38	122	
Acenaphthylene	1200	0	1000	ug/Kg	83				32	132	
Acenaphthene	1200	0	990	ug/Kg	83				40	123	
Fluorene	1200	0	1000	ug/Kg	83				43	125	
Phenanthrene	1200	0	1000	ug/Kg	83				50	121	
Anthracene	1200	0	1000	ug/Kg	83				47	123	
Fluoranthene	1200	0	1000	ug/Kg	83				50	127	
Pyrene	1200	0	990	ug/Kg	83				47	127	
Benzo(a)anthracene	1200	0	1000	ug/Kg	83				49	126	
Chrysene	1200	0	1000	ug/Kg	83				50	124	
Benzo(b)fluoranthene	1200	0	1000	ug/Kg	83				45	132	
Benzo(k)fluoranthene	1200	0	1000	ug/Kg	83				47	132	
Benzo(a)pyrene	1200	0	1000	ug/Kg	83				45	129	
Indeno(1,2,3-cd)pyrene	1200	0	1000	ug/Kg	83				45	133	
Dibenz(a,h)anthracene	1200	0	1000	ug/Kg	83				45	134	
Benzo(g,h,i)perylene	1200	0	1000	ug/Kg	83				43	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.: Q1984

Client: Nobis Group

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q2071-13MSD		**Client Sample ID: L2-WC-5MSD**						**DataFile: BP024711.D**			
Naphthalene	1200	0	970	ug/Kg	81		1		35	123	20
2-Methylnaphthalene	1200	0	990	ug/Kg	83		4		38	122	20
Acenaphthylene	1200	0	1000	ug/Kg	83		0		32	132	20
Acenaphthene	1200	0	1000	ug/Kg	83		0		40	123	20
Fluorene	1200	0	1000	ug/Kg	83		0		43	125	20
Phenanthrene	1200	0	980	ug/Kg	82		1		50	121	20
Anthracene	1200	0	1000	ug/Kg	83		0		47	123	20
Fluoranthene	1200	0	1000	ug/Kg	83		0		50	127	20
Pyrene	1200	0	1000	ug/Kg	83		0		47	127	20
Benzo(a)anthracene	1200	0	1000	ug/Kg	83		0		49	126	20
Chrysene	1200	0	990	ug/Kg	83		0		50	124	20
Benzo(b)fluoranthene	1200	0	1000	ug/Kg	83		0		45	132	20
Benzo(k)fluoranthene	1200	0	1000	ug/Kg	83		0		47	132	20
Benzo(a)pyrene	1200	0	1000	ug/Kg	83		0		45	129	20
Indeno(1,2,3-cd)pyrene	1200	0	1000	ug/Kg	83		0		45	133	20
Dibenz(a,h)anthracene	1200	0	1000	ug/Kg	83		0		45	134	20
Benzo(g,h,i)perylene	1200	0	1000	ug/Kg	83		0		43	134	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.: Q1984

Client: Nobis Group

Analytical Method: 8270E **DataFile:** BP024636.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB167973BS	Naphthalene	1700	1400	ug/Kg	82				35	123	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				38	122	
	Acenaphthylene	1700	1400	ug/Kg	82				32	132	
	Acenaphthene	1700	1400	ug/Kg	82				40	123	
	Fluorene	1700	1500	ug/Kg	88				43	125	
	Phenanthrene	1700	1500	ug/Kg	88				50	121	
	Anthracene	1700	1500	ug/Kg	88				47	123	
	Fluoranthene	1700	1500	ug/Kg	88				50	127	
	Pyrene	1700	1500	ug/Kg	88				47	127	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				49	126	
	Chrysene	1700	1500	ug/Kg	88				50	124	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				45	132	
	Benzo(k)fluoranthene	1700	1500	ug/Kg	88				47	132	
	Benzo(a)pyrene	1700	1600	ug/Kg	94				45	129	
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				45	133	
	Dibenz(a,h)anthracene	1700	1600	ug/Kg	94				45	134	
	Benzo(g,h,i)perylene	1700	1600	ug/Kg	94				43	134	

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.: Q1984

Client: Nobis Group

Analytical Method: 8270E **DataFile:** BP024705.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB168052BS	Naphthalene	1700	1400	ug/Kg	82				35	123	
	2-Methylnaphthalene	1700	1400	ug/Kg	82				38	122	
	Acenaphthylene	1700	1500	ug/Kg	88				32	132	
	Acenaphthene	1700	1500	ug/Kg	88				40	123	
	Fluorene	1700	1500	ug/Kg	88				43	125	
	Phenanthrene	1700	1500	ug/Kg	88				50	121	
	Anthracene	1700	1500	ug/Kg	88				47	123	
	Fluoranthene	1700	1500	ug/Kg	88				50	127	
	Pyrene	1700	1500	ug/Kg	88				47	127	
	Benzo(a)anthracene	1700	1500	ug/Kg	88				49	126	
	Chrysene	1700	1500	ug/Kg	88				50	124	
	Benzo(b)fluoranthene	1700	1500	ug/Kg	88				45	132	
	Benzo(k)fluoranthene	1700	1500	ug/Kg	88				47	132	
	Benzo(a)pyrene	1700	1500	ug/Kg	88				45	129	
	Indeno(1,2,3-cd)pyrene	1700	1500	ug/Kg	88				45	133	
	Dibenz(a,h)anthracene	1700	1500	ug/Kg	88				45	134	
	Benzo(g,h,i)perylene	1700	1500	ug/Kg	88				43	134	

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB167973BL

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM Case No.: Q1984 SAS No.: Q1984 SDG NO.: Q1984

Lab File ID: BP024635.D Lab Sample ID: PB167973BL

Instrument ID: BNA_P Date Extracted: 05/13/2025

Matrix: (soil/water) SOIL Date Analyzed: 05/15/2025

Level: (low/med) LOW Time Analyzed: 13:05

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB167973BS	PB167973BS	BP024636.D	05/15/2025
OU4-PCS-TC-33-050725	Q1984-01	BP024640.D	05/15/2025
OU4-PCS-TC-35-050725	Q1984-05	BP024642.D	05/15/2025
OU4-TS-26-050725	Q1984-11	BP024644.D	05/15/2025
OU4-TS-24-050725	Q1984-07	BP024648.D	05/15/2025
TP-13MS	Q2010-02MS	BP024638.D	05/15/2025
TP-13MSD	Q2010-02MSD	BP024639.D	05/15/2025
OU4-TS-27-050725	Q1984-13	BP024645.D	05/15/2025
OU4-TS-28-050725	Q1984-15	BP024646.D	05/15/2025

COMMENTS:

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

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168052BL

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM Case No.: Q1984 SAS No.: Q1984 SDG NO.: Q1984

Lab File ID: BP024704.D Lab Sample ID: PB168052BL

Instrument ID: BNA_P Date Extracted: 05/19/2025

Matrix: (soil/water) SOIL Date Analyzed: 05/20/2025

Level: (low/med) LOW Time Analyzed: 12:33

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB168052BS	PB168052BS	BP024705.D	05/20/2025
OU4-PCS-TC-34-050725	Q1984-03	BP024723.D	05/21/2025
OU4-TS-25-050725	Q1984-09	BP024724.D	05/21/2025
L2-WC-5MS	Q2071-13MS	BP024710.D	05/20/2025
L2-WC-5MSD	Q2071-13MSD	BP024711.D	05/20/2025
OU4-TS-27-050725RX	Q1984-13RX	BP024725.D	05/21/2025

COMMENTS:

Form IV SV

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: NOBI03

Lab Code: CHEM SAS No.: Q1984 SDG NO.: Q1984

Lab File ID: BP024613.D DFTPP Injection Date: 05/13/2025

Instrument ID: BNA_P DFTPP Injection Time: 10:00

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	26.8
68	Less than 2.0% of mass 69	0.2 (0.6) 1
69	Mass 69 relative abundance	29
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	39.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.3
275	10.0 - 60.0% of mass 198	26.5
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.4 (19.4) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BP024614.D	05/13/2025	10:41
SSTDICC005	SSTDICC005	BP024615.D	05/13/2025	11:22
SSTDICC010	SSTDICC010	BP024616.D	05/13/2025	12:03
SSTDICC020	SSTDICC020	BP024617.D	05/13/2025	12:43
SSTDICCC040	SSTDICCC040	BP024618.D	05/13/2025	13:24
SSTDICC050	SSTDICC050	BP024619.D	05/13/2025	14:05
SSTDICC060	SSTDICC060	BP024620.D	05/13/2025	14:45
SSTDICC080	SSTDICC080	BP024621.D	05/13/2025	15:26

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: NOBI03

Lab Code: CHEM SAS No.: Q1984 SDG NO.: Q1984

Lab File ID: BP024633.D DFTPP Injection Date: 05/15/2025

Instrument ID: BNA_P DFTPP Injection Time: 11:44

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	24.4
68	Less than 2.0% of mass 69	0.5 (1.9) 1
69	Mass 69 relative abundance	26.4
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	36.4
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	5.2
275	10.0 - 60.0% of mass 198	25.4
365	Greater than 1% of mass 198	4.3
441	Present, but less than mass 443	15.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 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	BP024634.D	05/15/2025	12:25
PB167973BL	PB167973BL	BP024635.D	05/15/2025	13:05
PB167973BS	PB167973BS	BP024636.D	05/15/2025	13:53
TP-13MS	Q2010-02MS	BP024638.D	05/15/2025	15:18
TP-13MSD	Q2010-02MSD	BP024639.D	05/15/2025	15:59
OU4-PCS-TC-33-050725	Q1984-01	BP024640.D	05/15/2025	16:40
OU4-PCS-TC-35-050725	Q1984-05	BP024642.D	05/15/2025	18:01
OU4-TS-26-050725	Q1984-11	BP024644.D	05/15/2025	19:23
OU4-TS-27-050725	Q1984-13	BP024645.D	05/15/2025	20:04
OU4-TS-28-050725	Q1984-15	BP024646.D	05/15/2025	20:45
OU4-TS-24-050725	Q1984-07	BP024648.D	05/15/2025	22:06
SSTDCCC040EC	SSTDCCC040	BP024649.D	05/15/2025	23:28

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: NOBI03

Lab Code: CHEM SAS No.: Q1984 SDG NO.: Q1984

Lab File ID: BP024702.D DFTPP Injection Date: 05/20/2025

Instrument ID: BNA_P DFTPP Injection Time: 10:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	22.2
68	Less than 2.0% of mass 69	0.3 (1.3) 1
69	Mass 69 relative abundance	23.8
70	Less than 2.0% of mass 69	0.1 (0.6) 1
127	10.0 - 80.0% of mass 198	33.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	4.7
275	10.0 - 60.0% of mass 198	24
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	15.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19 (19) 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	BP024703.D	05/20/2025	11:52
PB168052BL	PB168052BL	BP024704.D	05/20/2025	12:33
PB168052BS	PB168052BS	BP024705.D	05/20/2025	13:14
L2-WC-5MS	Q2071-13MS	BP024710.D	05/20/2025	16:38
L2-WC-5MSD	Q2071-13MSD	BP024711.D	05/20/2025	17:19
SSTDCCC040EC	SSTDCCC040	BP024718.D	05/20/2025	22:04

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: NOBI03

Lab Code: CHEM SAS No.: Q1984 SDG NO.: Q1984

Lab File ID: BP024719.D DFTPP Injection Date: 05/21/2025

Instrument ID: BNA_P DFTPP Injection Time: 00:06

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	23.1
68	Less than 2.0% of mass 69	0.4 (1.5) 1
69	Mass 69 relative abundance	24
70	Less than 2.0% of mass 69	0.1 (0.5) 1
127	10.0 - 80.0% of mass 198	33.5
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	4.9
275	10.0 - 60.0% of mass 198	23.8
365	Greater than 1% of mass 198	4.1
441	Present, but less than mass 443	15.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.1 (19.1) 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	BP024720.D	05/21/2025	00:47
OU4-PCS-TC-34-050725	Q1984-03	BP024723.D	05/21/2025	02:49
OU4-TS-25-050725	Q1984-09	BP024724.D	05/21/2025	03:30
OU4-TS-27-050725RX	Q1984-13RX	BP024725.D	05/21/2025	04:10
SSTDCCC040EC	SSTDCCC040	BP024735.D	05/21/2025	10:56

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.: Q1984 SAS No.: Q1984 SDG NO.: Q1984

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/15/2025

Lab File ID: BP024634.D Time Analyzed: 12:25

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	130531	7.658	590490	10.43	383835	14.30
	UPPER LIMIT	261062	8.158	1180980	10.928	767670	14.804
	LOWER LIMIT	65265.5	7.158	295245	9.928	191918	13.804
	EPA SAMPLE NO.						
01	PB167973BL	146276	7.66	564318	10.43	357828	14.29
02	PB167973BS	131081	7.65	537517	10.42	347277	14.30
03	OU4-PCS-TC-33-050725	153150	7.66	652972	10.43	400586	14.29
04	OU4-PCS-TC-35-050725	173289	7.66	651725	10.43	363870	14.29
05	OU4-TS-24-050725	208034	7.66	794179	10.43	459760	14.29
06	OU4-TS-26-050725	175989	7.66	742245	10.43	436986	14.29
07	OU4-TS-27-050725	191006	7.66	745950	10.43	449224	14.30
08	OU4-TS-28-050725	238077	7.66	986706	10.43	606578	14.29
09	TP-13MS	165529	7.66	634360	10.43	378565	14.30
10	TP-13MSD	159501	7.66	628820	10.43	375530	14.30

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.: Q1984 SAS No.: Q1984 SDG NO.: Q1984

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/15/2025

Lab File ID: BP024634.D Time Analyzed: 12:25

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	784999	17.092	868702	21.527	1013040	24.81
	UPPER LIMIT	1570000	17.592	1737400	22.027	2026080	25.31
	LOWER LIMIT	392500	16.592	434351	21.027	506520	24.31
	EPA SAMPLE NO.						
01	PB167973BL	764705	17.09	884123	21.52	966019	24.80
02	PB167973BS	706031	17.10	796554	21.53	897451	24.83
03	OU4-PCS-TC-33-050725	820674	17.09	966886	21.52	1054500	24.80
04	OU4-PCS-TC-35-050725	628267	17.10	642463	21.52	827790	24.81
05	OU4-TS-24-050725	854275	17.09	968283	21.52	1168790	24.80
06	OU4-TS-26-050725	825732	17.09	944347	21.52	1114380	24.79
07	OU4-TS-27-050725	846872	17.09	939807	21.52	1134840	24.80
08	OU4-TS-28-050725	1027750	17.09	846507	21.53	1082020	24.81
09	TP-13MS	753325	17.10	842505	21.53	953147	24.80
10	TP-13MSD	726778	17.10	785534	21.53	909133	24.80

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

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

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

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1984 SAS No.: Q1984 SDG NO.: Q1984

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/20/2025

Lab File ID: BP024703.D Time Analyzed: 11:52

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	123667	7.657	504753	10.43	316846	14.29
	UPPER LIMIT	247334	8.157	1009510	10.928	633692	14.787
	LOWER LIMIT	61833.5	7.157	252377	9.928	158423	13.787
	EPA SAMPLE NO.						
01	PB168052BL	128612	7.65	471746	10.43	278297	14.28
02	PB168052BS	131255	7.65	515313	10.42	320735	14.29
03	L2-WC-5MS	123244	7.65	485383	10.42	309601	14.29
04	L2-WC-5MSD	122975	7.66	491800	10.42	320946	14.29

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.: Q1984 SAS No.: Q1984 SDG NO.: Q1984

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/20/2025

Lab File ID: BP024703.D Time Analyzed: 11:52

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	620396	17.081	679929	21.516	792201	24.798
	UPPER LIMIT	1240790	17.581	1359860	22.016	1584400	25.298
	LOWER LIMIT	310198	16.581	339965	21.016	396101	24.298
	EPA SAMPLE NO.						
01	PB168052BL	578330	17.09	678376	21.52	779891	24.80
02	PB168052BS	641657	17.08	731405	21.51	845958	24.79
03	L2-WC-5MS	602056	17.08	694322	21.52	810851	24.80
04	L2-WC-5MSD	665178	17.09	748102	21.53	853641	24.81

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

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

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

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

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1984 SAS No.: Q1984 SDG NO.: Q1984

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/21/2025

Lab File ID: BP024720.D Time Analyzed: 00:47

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	101301	7.652	430577	10.42	274136	14.28
	UPPER LIMIT	202602	8.152	861154	10.922	548272	14.781
	LOWER LIMIT	50650.5	7.152	215289	9.922	137068	13.781
	EPA SAMPLE NO.						
01	OU4-PCS-TC-34-050725	114994	7.66	463608	10.42	289146	14.28
02	OU4-TS-25-050725	128618	7.65	540121	10.43	348817	14.29
03	OU4-TS-27-050725RX	153158	7.66	636408	10.42	397224	14.29

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.: Q1984 SAS No.: Q1984 SDG NO.: Q1984

EPA Sample No.: SSTDCCC040 Date Analyzed: 05/21/2025

Lab File ID: BP024720.D Time Analyzed: 00:47

Instrument ID: BNA_P GC Column: ZB-GR ID: 0.25 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	569223	17.075	664451	21.504	794762	24.768
	UPPER LIMIT	1138450	17.575	1328900	22.004	1589520	25.268
	LOWER LIMIT	284612	16.575	332226	21.004	397381	24.268
	EPA SAMPLE NO.						
01	OU4-PCS-TC-34-050725	623072	17.09	698807	21.51	826708	24.78
02	OU4-TS-25-050725	677955	17.08	735784	21.50	906701	24.78
03	OU4-TS-27-050725RX	726572	17.08	787708	21.51	957235	24.79

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:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-33-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	95.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024640.D	1	05/13/25 09:05	05/15/25 16:40	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.14	U	0.024	0.14	0.18	mg/Kg
91-57-6	2-Methylnaphthalene	0.14	U	0.027	0.14	0.18	mg/Kg
208-96-8	Acenaphthylene	0.14	U	0.030	0.14	0.18	mg/Kg
83-32-9	Acenaphthene	0.14	U	0.022	0.14	0.18	mg/Kg
86-73-7	Fluorene	0.14	U	0.027	0.14	0.18	mg/Kg
85-01-8	Phenanthrene	0.14	U	0.022	0.14	0.18	mg/Kg
120-12-7	Anthracene	0.14	U	0.035	0.14	0.18	mg/Kg
206-44-0	Fluoranthene	0.14	U	0.032	0.14	0.18	mg/Kg
129-00-0	Pyrene	0.14	U	0.038	0.14	0.18	mg/Kg
56-55-3	Benzo(a)anthracene	0.14	U	0.024	0.14	0.18	mg/Kg
218-01-9	Chrysene	0.14	U	0.021	0.14	0.18	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.14	U	0.020	0.14	0.18	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.14	U	0.024	0.14	0.18	mg/Kg
50-32-8	Benzo(a)pyrene	0.14	U	0.031	0.14	0.18	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	U	0.031	0.14	0.18	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.14	U	0.029	0.14	0.18	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.14	U	0.027	0.14	0.18	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	51.5		37 - 122		51%	SPK: 100
321-60-8	2-Fluorobiphenyl	56.8		44 - 115		57%	SPK: 100
1718-51-0	Terphenyl-d14	60.1		54 - 127		60%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	153000	7.658				
1146-65-2	Naphthalene-d8	653000	10.428				
15067-26-2	Acenaphthene-d10	401000	14.293				
1517-22-2	Phenanthrene-d10	821000	17.087				
1719-03-5	Chrysene-d12	967000	21.522				
1520-96-3	Perylene-d12	1050000	24.804				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-33-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-01	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	95.1
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024640.D	1	05/13/25 09:05	05/15/25 16:40	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972608	Alachlor	N.D					
82-68-8	Quintozine	N.D					

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_P\Data\BP051525\
Data File : BP024640.D
Acq On : 15 May 2025 16:40
Operator : RC/JU
Sample : Q1984-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-33-050725

Quant Time: May 15 17:46:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

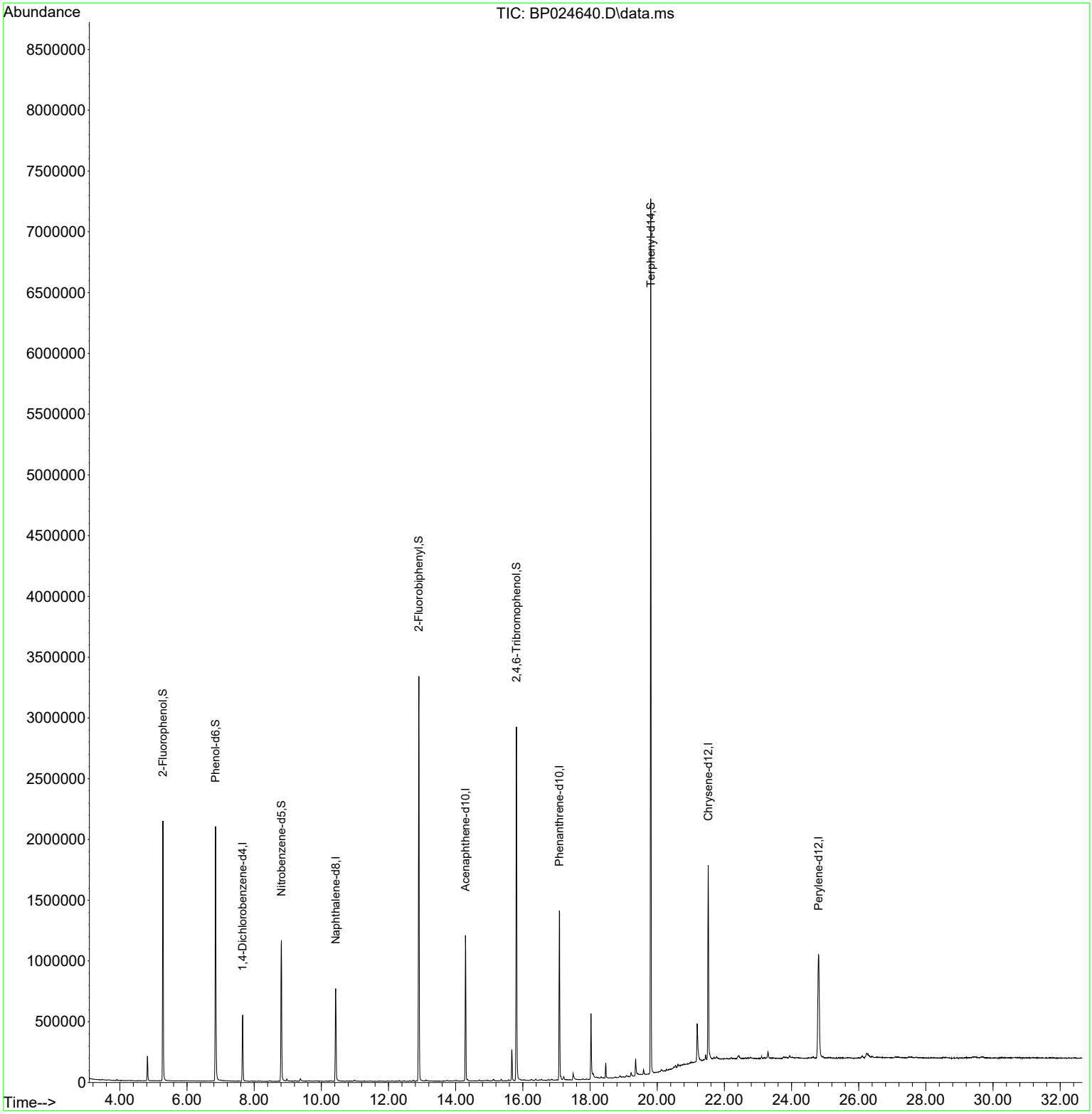
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	153150	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	652972	20.000	ng	0.00
39) Acenaphthene-d10	14.293	164	400586	20.000	ng	-0.01
64) Phenanthrene-d10	17.087	188	820674	20.000	ng	-0.01
76) Chrysene-d12	21.522	240	966886	20.000	ng	0.00
86) Perylene-d12	24.804	264	1054497	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.281	112	929927	103.854	ng	0.00
7) Phenol-d6	6.852	99	1189214	104.061	ng	0.00
23) Nitrobenzene-d5	8.811	82	665326	51.482	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	660516	97.262	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	1737500	56.825	ng	0.00
79) Terphenyl-d14	19.810	244	3391751	60.150	ng	0.00
Target Compounds						Qvalue

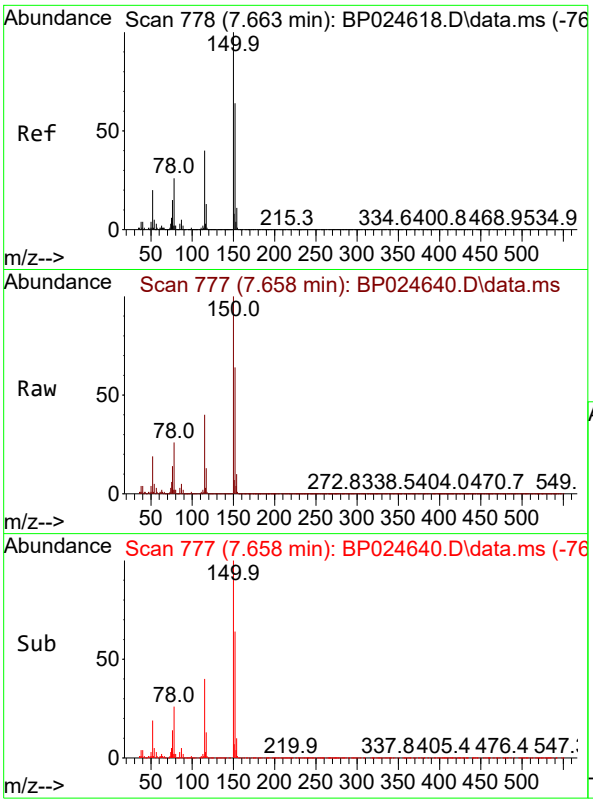
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024640.D
Acq On : 15 May 2025 16:40
Operator : RC/JU
Sample : Q1984-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-33-050725

Quant Time: May 15 17:46:20 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



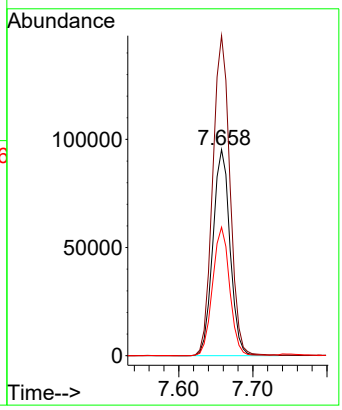


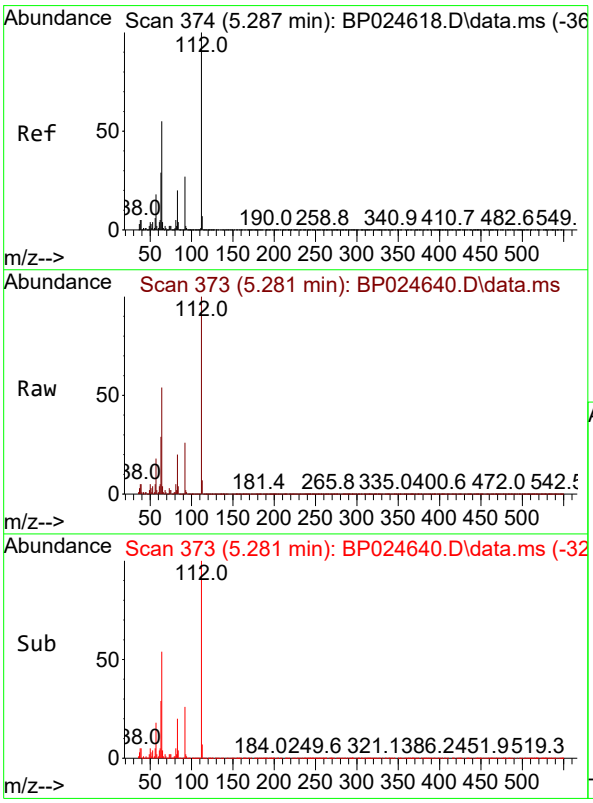
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.658 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024640.D
Acq: 15 May 2025 16:40

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-33-050725

Tgt Ion:152 Resp: 153150

Ion	Ratio	Lower	Upper
152	100		
150	155.3	125.9	188.9
115	62.4	50.1	75.1

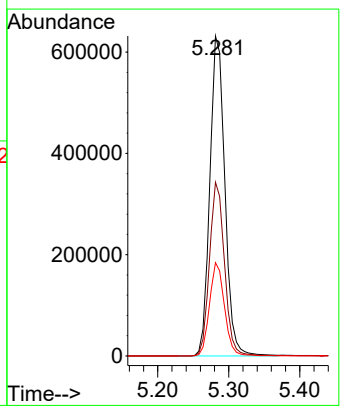


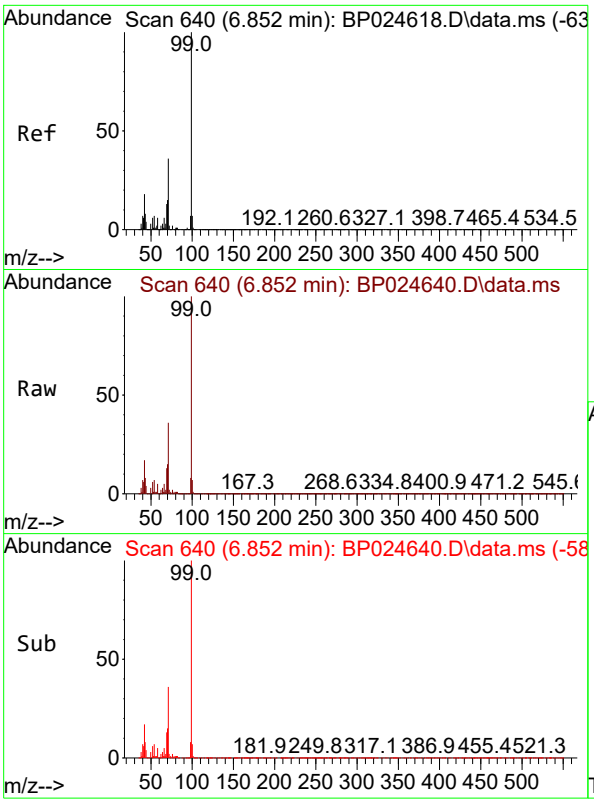


#5
2-Fluorophenol
Concen: 103.854 ng
RT: 5.281 min Scan# 373
Delta R.T. -0.006 min
Lab File: BP024640.D
Acq: 15 May 2025 16:40

Tgt Ion:112 Resp: 929927

Ion	Ratio	Lower	Upper
112	100		
64	54.3	44.1	66.1
63	29.2	23.5	35.3



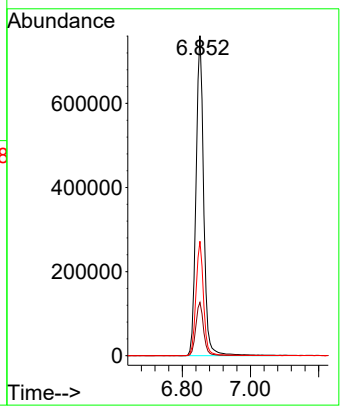


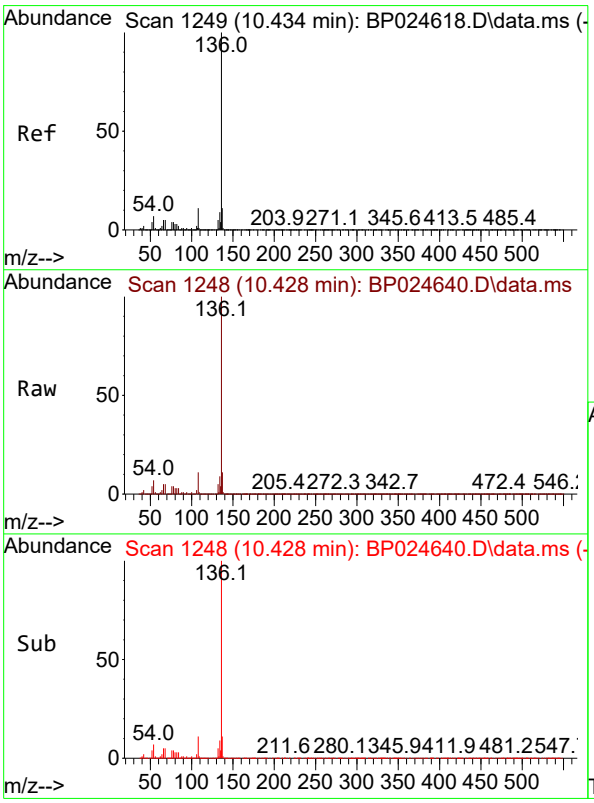
#7
Phenol-d6
Concen: 104.061 ng
RT: 6.852 min Scan# 64
Delta R.T. 0.000 min
Lab File: BP024640.D
Acq: 15 May 2025 16:40

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-33-050725

Tgt Ion: 99 Resp: 1189214

Ion	Ratio	Lower	Upper
99	100		
42	16.6	14.4	21.6
71	35.7	29.2	43.8

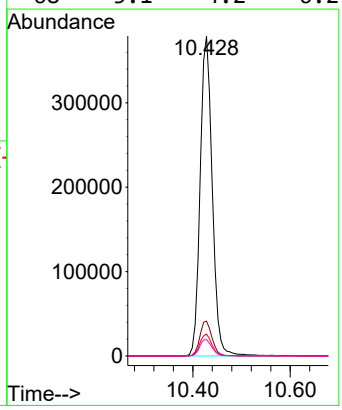


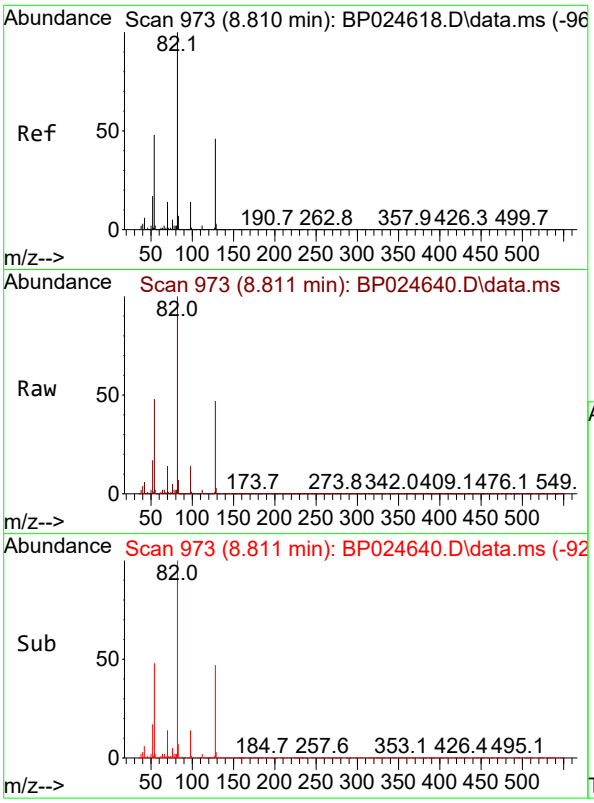


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.428 min Scan# 1248
Delta R.T. -0.006 min
Lab File: BP024640.D
Acq: 15 May 2025 16:40

Tgt Ion:136 Resp: 652972

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	6.8	5.5	8.3
68	5.1	4.2	6.2



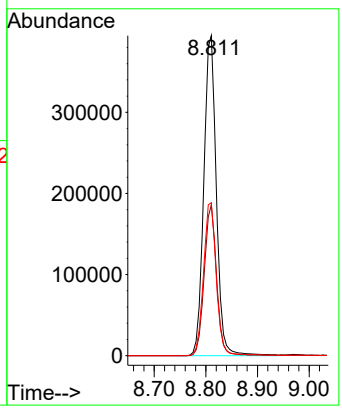


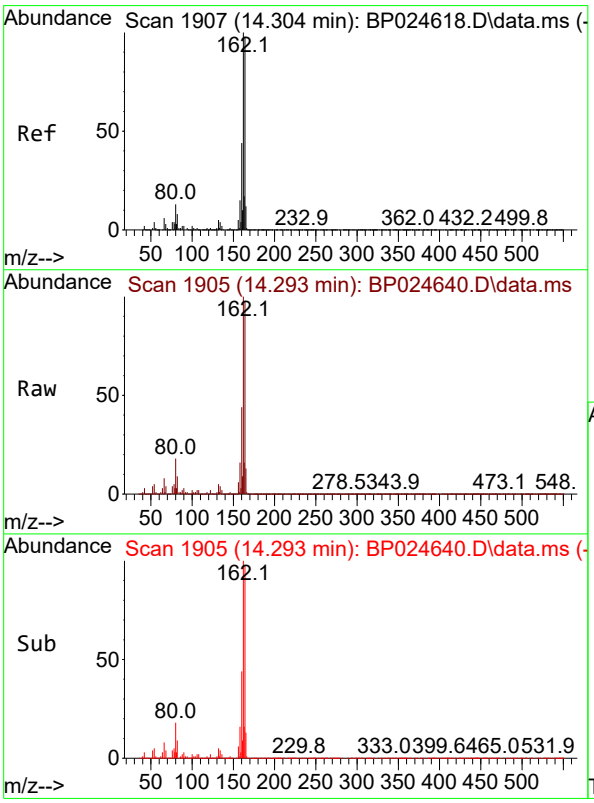
#23
Nitrobenzene-d5
Concen: 51.482 ng
RT: 8.811 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024640.D
Acq: 15 May 2025 16:40

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-33-050725

Tgt Ion: 82 Resp: 665326

Ion	Ratio	Lower	Upper
82	100		
128	47.1	37.0	55.4
54	47.8	38.7	58.1

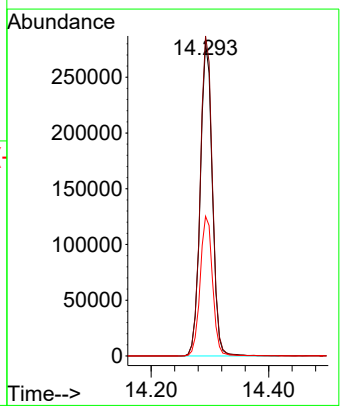


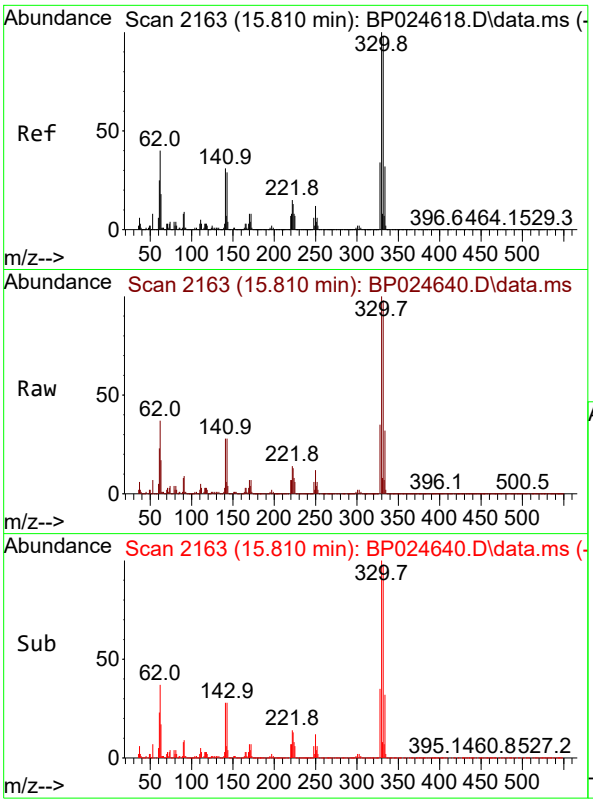


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.293 min Scan# 1905
Delta R.T. -0.012 min
Lab File: BP024640.D
Acq: 15 May 2025 16:40

Tgt Ion:164 Resp: 400586

Ion	Ratio	Lower	Upper
164	100		
162	102.1	81.8	122.6
160	44.5	36.3	54.5



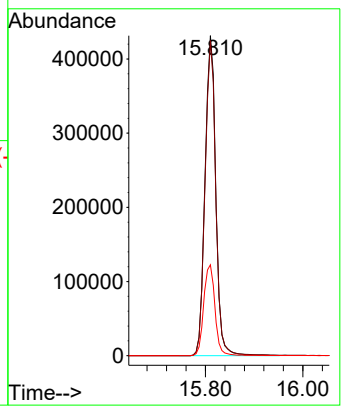


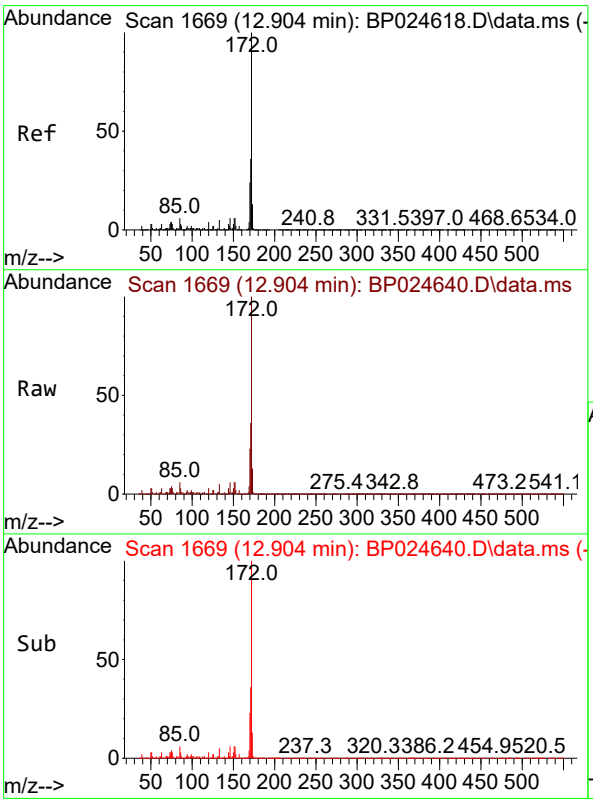
#42
2,4,6-Tribromophenol
Concen: 97.262 ng
RT: 15.810 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024640.D
Acq: 15 May 2025 16:40

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-33-050725

Tgt Ion:330 Resp: 660516

Ion	Ratio	Lower	Upper
330	100		
332	97.5	78.2	117.4
141	29.8	24.3	36.5

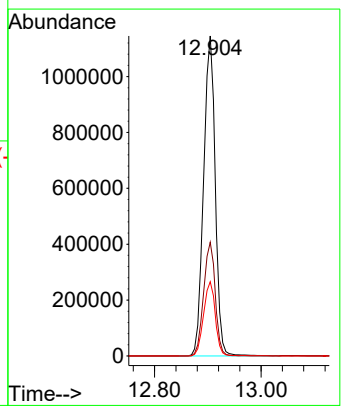


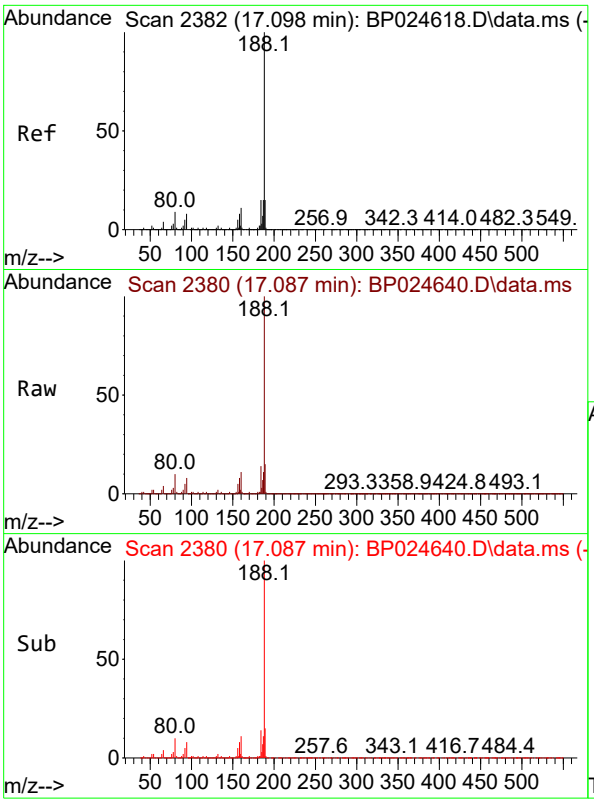


#45
2-Fluorobiphenyl
Concen: 56.825 ng
RT: 12.904 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BP024640.D
Acq: 15 May 2025 16:40

Tgt Ion:172 Resp: 1737500

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.8	43.2
170	23.2	18.8	28.2



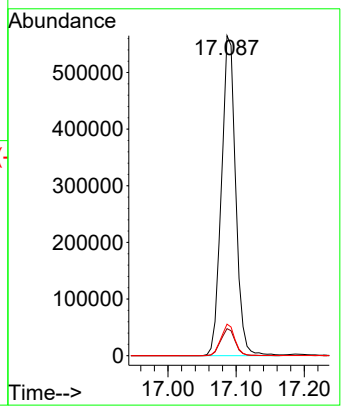


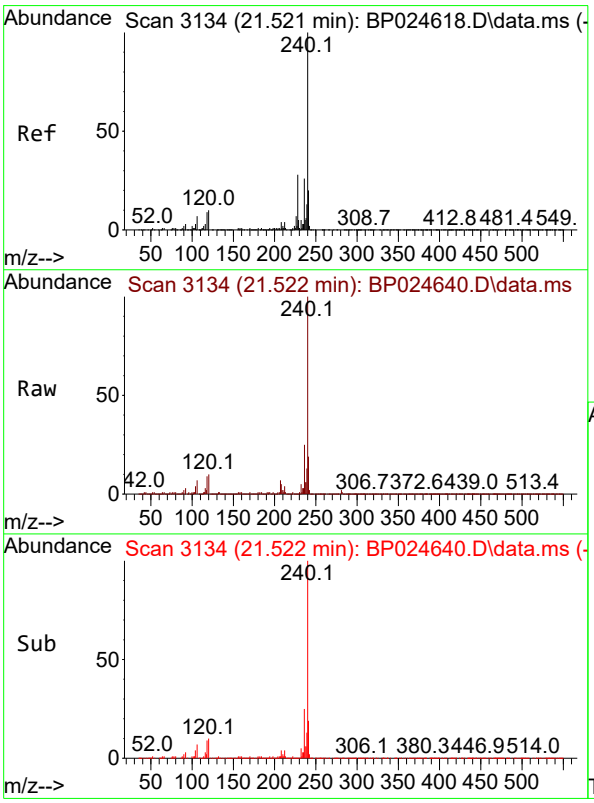
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.087 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024640.D
Acq: 15 May 2025 16:40

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-33-050725

Tgt Ion:188 Resp: 820674

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.5	9.7
80	9.9	7.3	10.9

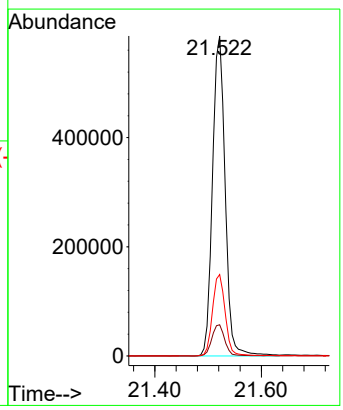


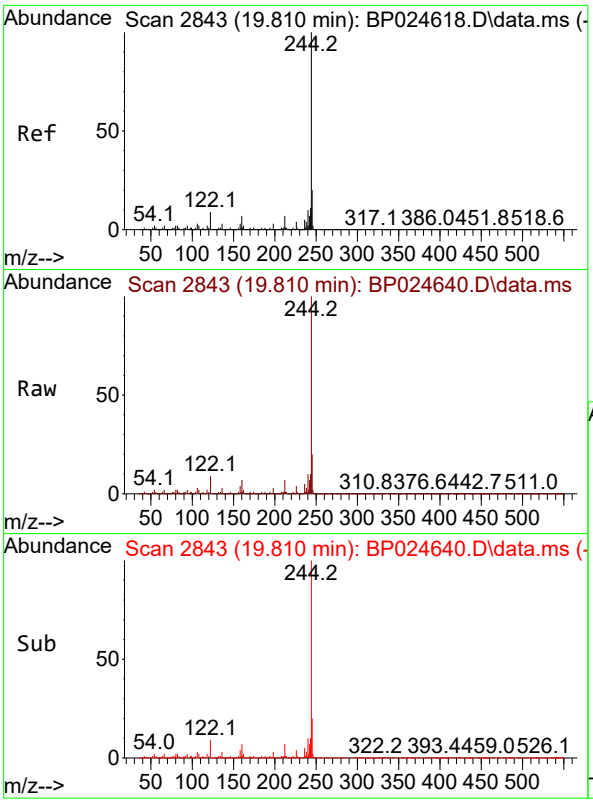


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.522 min Scan# 3134
Delta R.T. 0.000 min
Lab File: BP024640.D
Acq: 15 May 2025 16:40

Tgt Ion:240 Resp: 966886

Ion	Ratio	Lower	Upper
240	100		
120	9.7	7.8	11.6
236	25.5	20.6	31.0



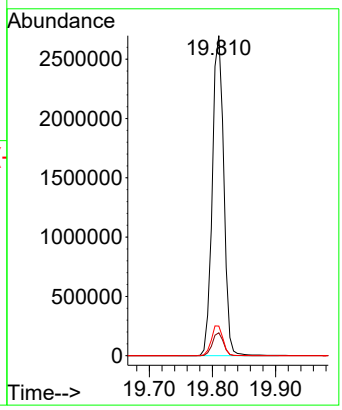


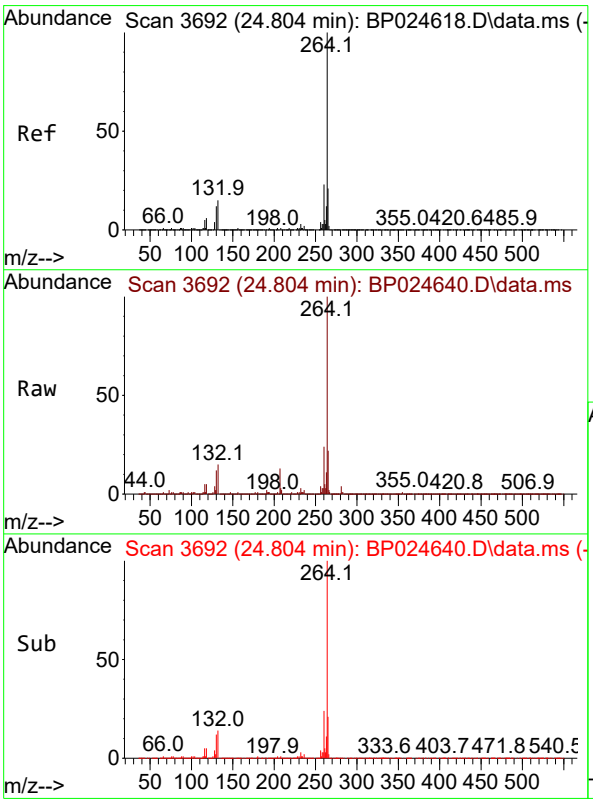
#79
Terphenyl-d14
Concen: 60.150 ng
RT: 19.810 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024640.D
Acq: 15 May 2025 16:40

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-33-050725

Tgt Ion:244 Resp: 3391751

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.5	8.3
122	9.3	7.4	11.0

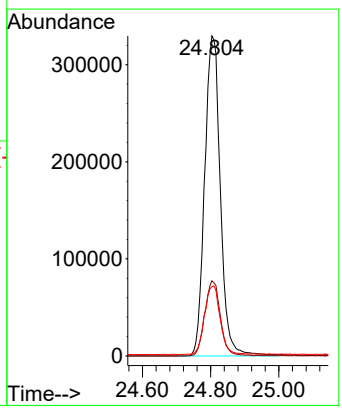




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.804 min Scan# 3692
Delta R.T. 0.000 min
Lab File: BP024640.D
Acq: 15 May 2025 16:40

Tgt Ion:264 Resp: 1054497

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.7	28.1
265	21.6	17.0	25.6



Sample Results: **BP024640.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024640.D
Acq On : 15 May 2025 16:40
Operator : RC/JU
Sample : Q1984-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-33-050725

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024640.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.823	290	295	311	rVB	203003	286738	3.14%	0.698%
2	5.281	367	373	392	rBV	2138212	3148256	34.53%	7.663%
3	6.852	631	640	654	rBV	2093908	3300440	36.20%	8.034%
4	7.658	769	777	788	rBV	545139	885414	9.71%	2.155%
5	8.811	965	973	993	rBV	1159029	1970270	21.61%	4.796%
6	10.428	1240	1248	1262	rBV	762629	1327698	14.56%	3.232%
7	12.904	1661	1669	1682	rBV	3331284	5101441	55.95%	12.417%
8	14.293	1897	1905	1912	rBV	1197516	1717656	18.84%	4.181%
9	15.675	2133	2140	2148	rBV	254587	368889	4.05%	0.898%
10	15.810	2155	2163	2184	rBV	2912352	4577072	50.20%	11.141%
11	17.087	2373	2380	2387	rBV2	1394999	2063860	22.63%	5.024%
12	17.498	2445	2450	2465	rBV2	53334	129289	1.42%	0.315%
13	18.028	2534	2540	2548	rBV	540391	838363	9.19%	2.041%
14	18.469	2610	2615	2620	rBV	125064	157993	1.73%	0.385%
15	19.357	2762	2766	2780	rBV	137798	265644	2.91%	0.647%
16	19.810	2837	2843	2858	rBV	7197904	9118230	100.00%	22.194%
17	21.192	3073	3078	3090	rBV	311435	677127	7.43%	1.648%
18	21.522	3128	3134	3140	rBV	1586652	2556432	28.04%	6.223%
19	24.804	3683	3692	3705	rBV2	837080	2592477	28.43%	6.310%

Sum of corrected areas: 41083289

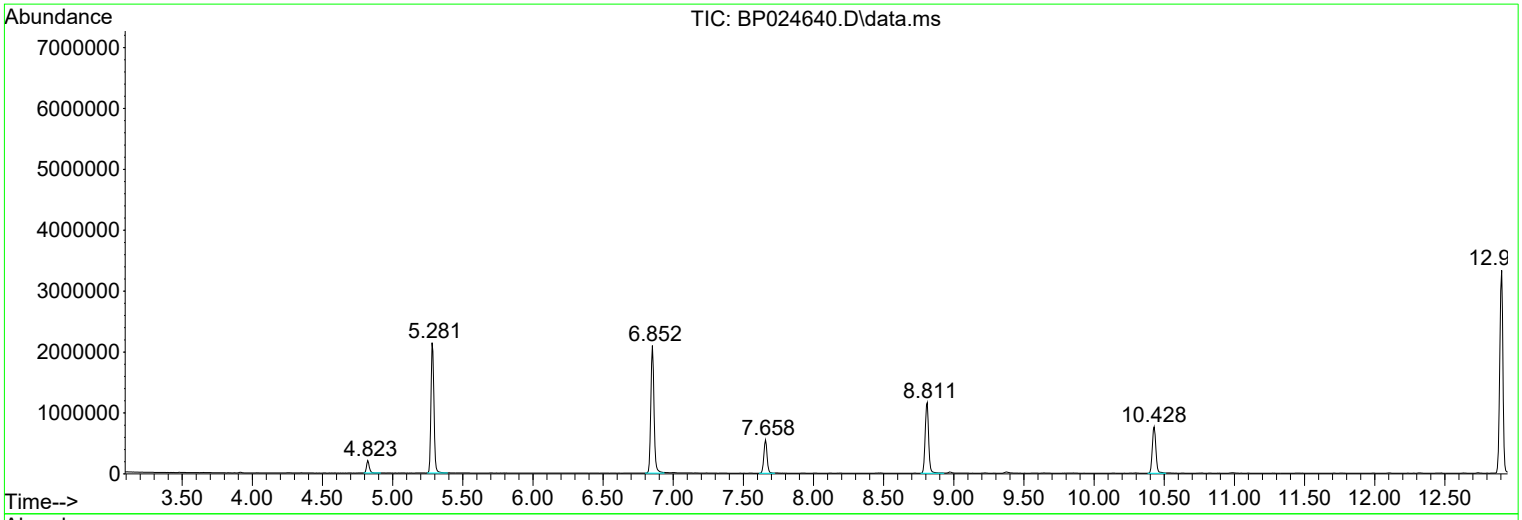
Sample Results: **BP024640.D**

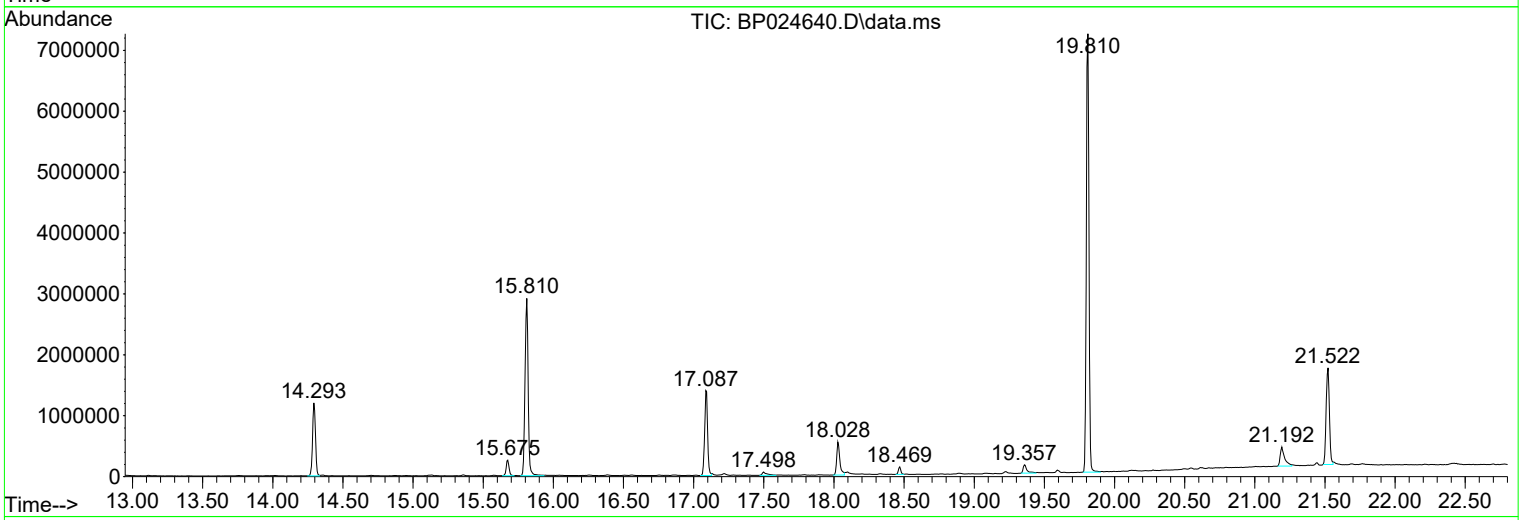
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024640.D
Acq On : 15 May 2025 16:40
Operator : RC/JU
Sample : Q1984-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

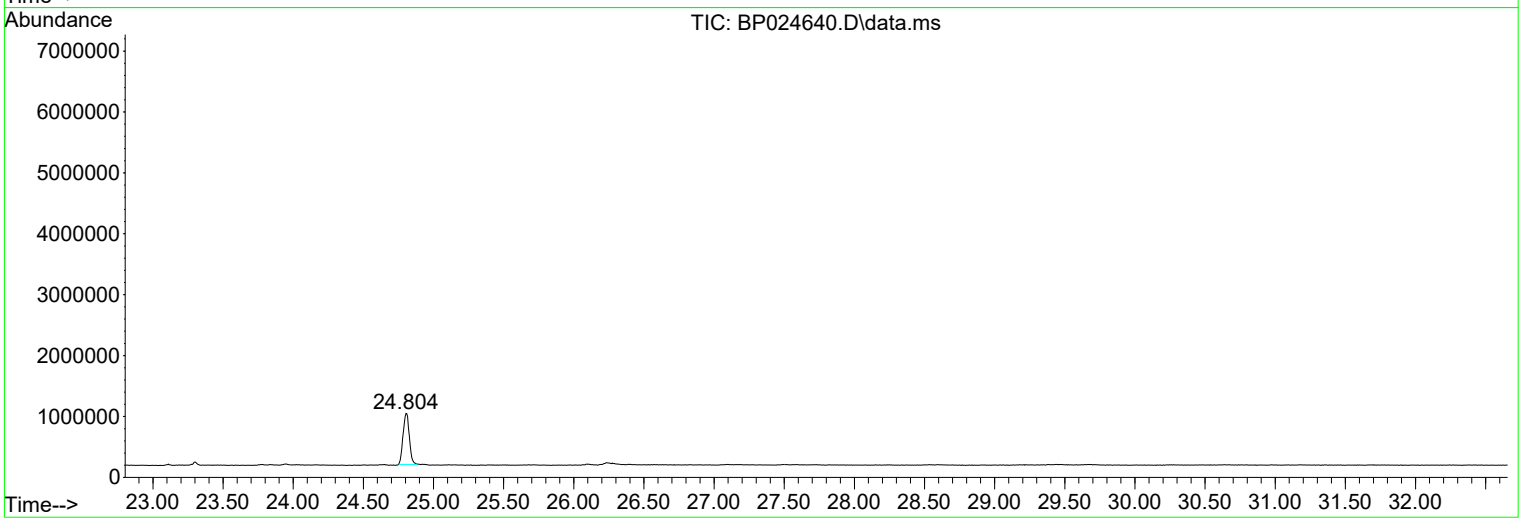
Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-33-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024640.D
Acq On : 15 May 2025 16:40
Operator : RC/JU
Sample : Q1984-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-33-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024640.D
Acq On : 15 May 2025 16:40
Operator : RC/JU
Sample : Q1984-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-33-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-34-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	95.7
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024723.D	1	05/19/25 09:45	05/21/25 02:49	PB168052

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.14	U	0.024	0.14	0.18	mg/Kg
91-57-6	2-Methylnaphthalene	0.14	U	0.027	0.14	0.18	mg/Kg
208-96-8	Acenaphthylene	0.14	U	0.030	0.14	0.18	mg/Kg
83-32-9	Acenaphthene	0.14	U	0.022	0.14	0.18	mg/Kg
86-73-7	Fluorene	0.14	U	0.026	0.14	0.18	mg/Kg
85-01-8	Phenanthrene	0.14	U	0.022	0.14	0.18	mg/Kg
120-12-7	Anthracene	0.14	U	0.035	0.14	0.18	mg/Kg
206-44-0	Fluoranthene	0.14	U	0.031	0.14	0.18	mg/Kg
129-00-0	Pyrene	0.14	U	0.038	0.14	0.18	mg/Kg
56-55-3	Benzo(a)anthracene	0.14	U	0.024	0.14	0.18	mg/Kg
218-01-9	Chrysene	0.14	U	0.021	0.14	0.18	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.14	U	0.020	0.14	0.18	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.14	U	0.023	0.14	0.18	mg/Kg
50-32-8	Benzo(a)pyrene	0.14	U	0.031	0.14	0.18	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	U	0.030	0.14	0.18	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.14	U	0.029	0.14	0.18	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.14	U	0.027	0.14	0.18	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	47.6		37 - 122		48%	SPK: 100
321-60-8	2-Fluorobiphenyl	52.6		44 - 115		53%	SPK: 100
1718-51-0	Terphenyl-d14	54.7		54 - 127		55%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	115000	7.658				
1146-65-2	Naphthalene-d8	464000	10.422				
15067-26-2	Acenaphthene-d10	289000	14.281				
1517-22-2	Phenanthrene-d10	623000	17.086				
1719-03-5	Chrysene-d12	699000	21.51				
1520-96-3	Perylene-d12	827000	24.78				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-34-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-03	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	95.7
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024723.D	1	05/19/25 09:45	05/21/25 02:49	PB168052

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972608	Alachlor	N.D					
82-68-8	Quintozine	N.D					

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_P\Data\BP052025\
Data File : BP024723.D
Acq On : 21 May 2025 02:49
Operator : RC/JU
Sample : Q1984-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-34-050725

Quant Time: May 21 03:56:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

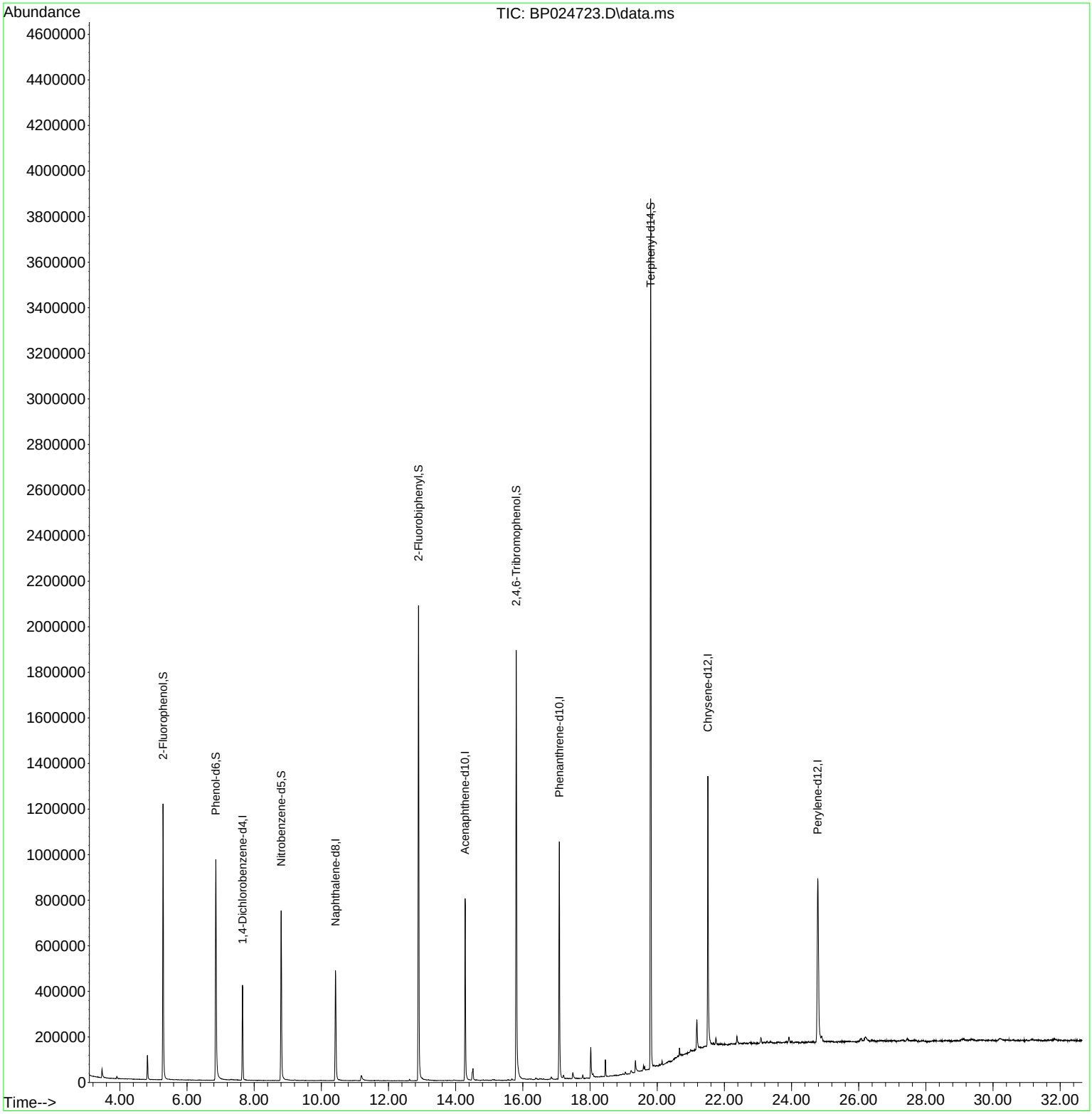
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	114994	20.000	ng	0.00
21) Naphthalene-d8	10.422	136	463608	20.000	ng	-0.01
39) Acenaphthene-d10	14.281	164	289146	20.000	ng	-0.02
64) Phenanthrene-d10	17.086	188	623072	20.000	ng	-0.01
76) Chrysene-d12	21.510	240	698807	20.000	ng	-0.01
86) Perylene-d12	24.780	264	826708	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	546499	81.284	ng	0.00
7) Phenol-d6	6.858	99	651864	75.968	ng	0.00
23) Nitrobenzene-d5	8.805	82	437005	47.627	ng	0.00
42) 2,4,6-Tribromophenol	15.804	330	489392	99.838	ng	0.00
45) 2-Fluorobiphenyl	12.893	172	1160467	52.581	ng	-0.01
79) Terphenyl-d14	19.804	244	2228211	54.675	ng	0.00
Target Compounds						Qvalue

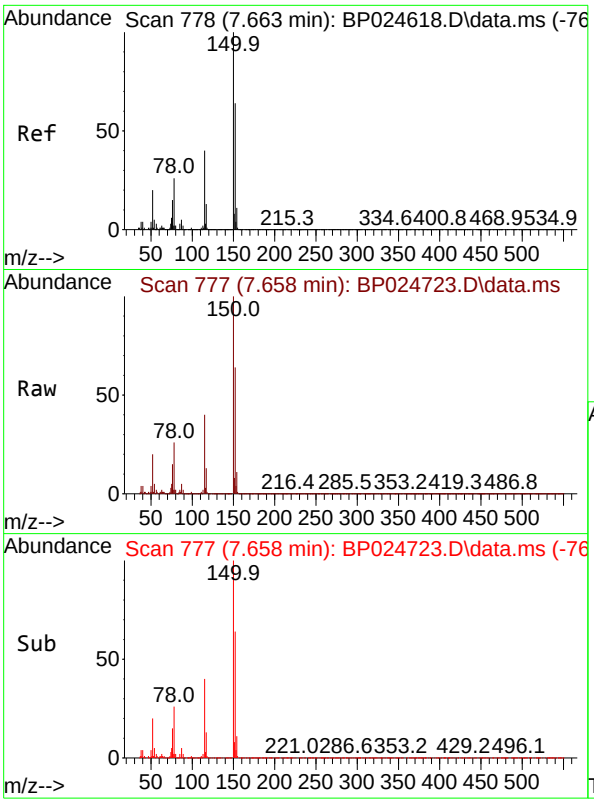
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024723.D
Acq On : 21 May 2025 02:49
Operator : RC/JU
Sample : Q1984-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-34-050725

Quant Time: May 21 03:56:49 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



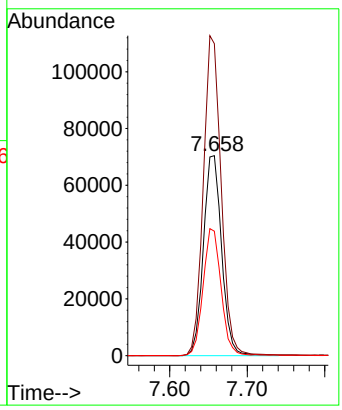


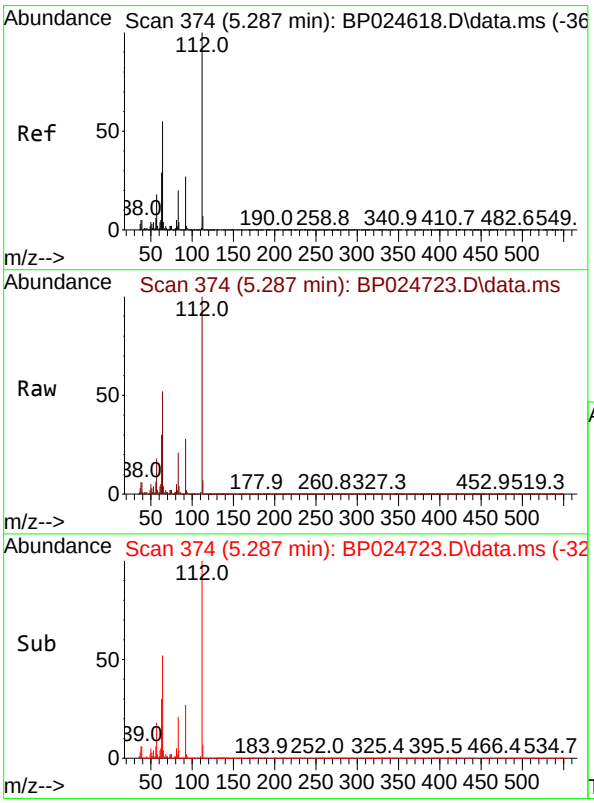
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.658 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024723.D
Acq: 21 May 2025 02:49

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-34-050725

Tgt Ion:152 Resp: 114994

Ion	Ratio	Lower	Upper
152	100		
150	156.0	125.9	188.9
115	62.2	50.1	75.1

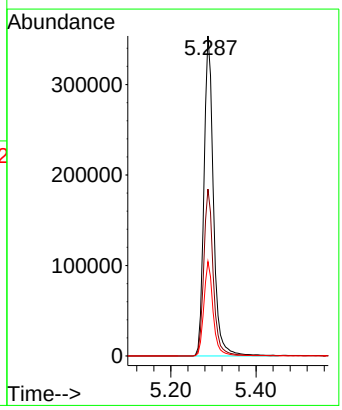


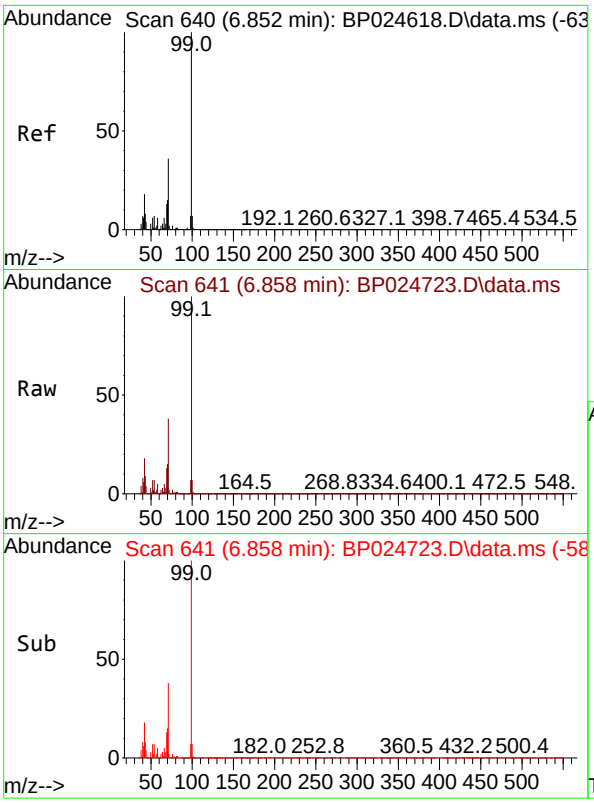


#5
2-Fluorophenol
Concen: 81.284 ng
RT: 5.287 min Scan# 374
Delta R.T. 0.000 min
Lab File: BP024723.D
Acq: 21 May 2025 02:49

Tgt Ion:112 Resp: 546499

Ion	Ratio	Lower	Upper
112	100		
64	52.2	44.1	66.1
63	29.5	23.5	35.3



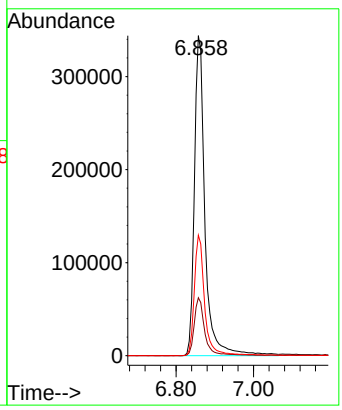


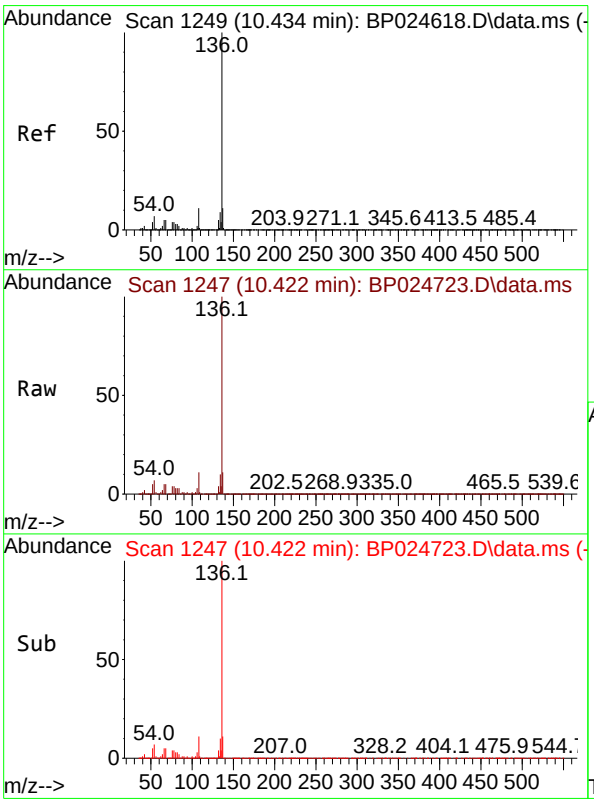
#7
Phenol-d6
Concen: 75.968 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024723.D
Acq: 21 May 2025 02:49

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-34-050725

Tgt Ion: 99 Resp: 651864

Ion	Ratio	Lower	Upper
99	100		
42	18.1	14.4	21.6
71	37.7	29.2	43.8

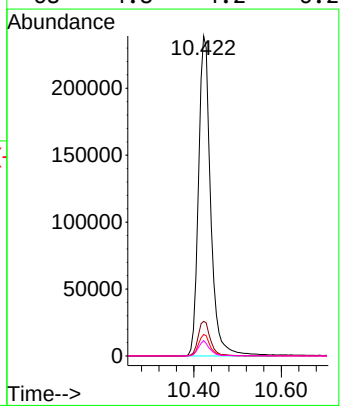


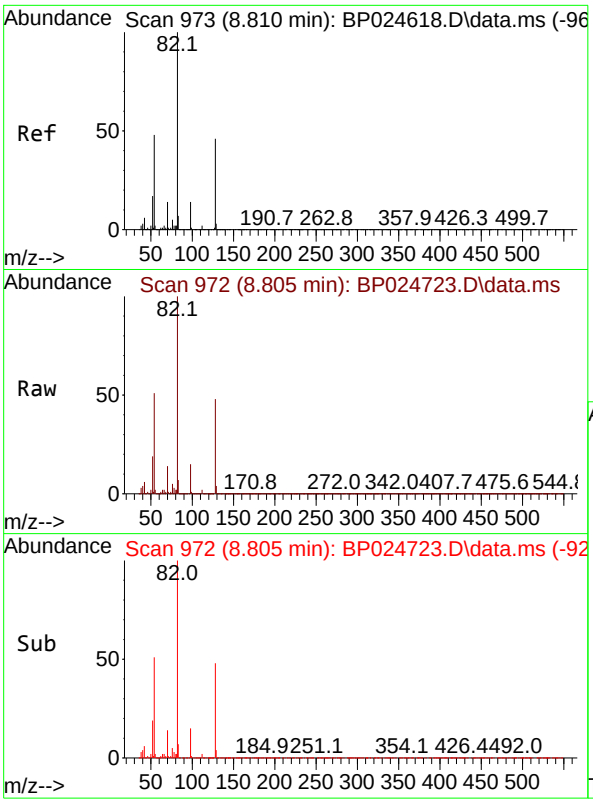


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.422 min Scan# 1247
Delta R.T. -0.012 min
Lab File: BP024723.D
Acq: 21 May 2025 02:49

Tgt Ion:136 Resp: 463608

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	6.7	5.5	8.3
68	4.8	4.2	6.2



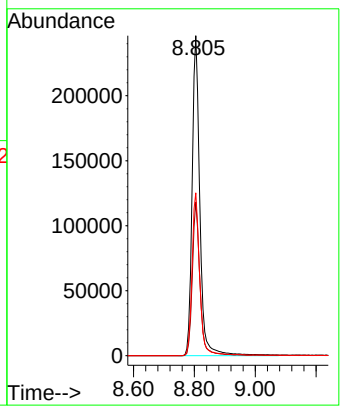


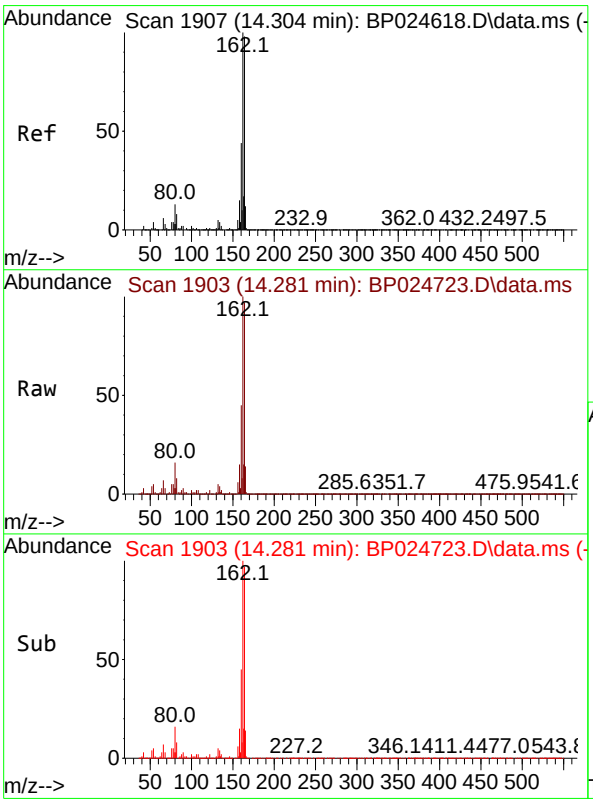
#23
Nitrobenzene-d5
Concen: 47.627 ng
RT: 8.805 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024723.D
Acq: 21 May 2025 02:49

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-34-050725

Tgt Ion: 82 Resp: 437005

Ion	Ratio	Lower	Upper
82	100		
128	48.1	37.0	55.4
54	50.9	38.7	58.1

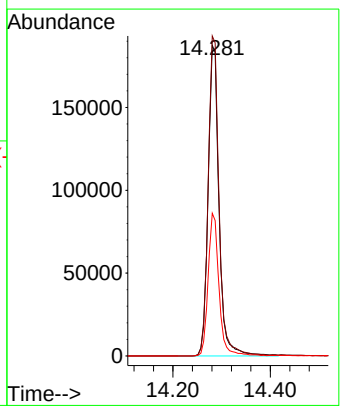


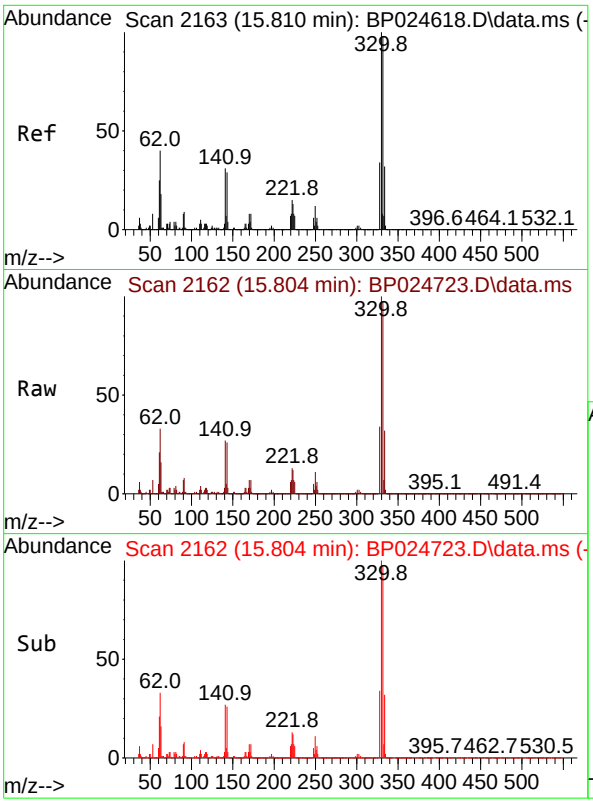


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.281 min Scan# 1903
Delta R.T. -0.023 min
Lab File: BP024723.D
Acq: 21 May 2025 02:49

Tgt Ion:164 Resp: 289146

Ion	Ratio	Lower	Upper
164	100		
162	103.0	81.8	122.6
160	45.9	36.3	54.5



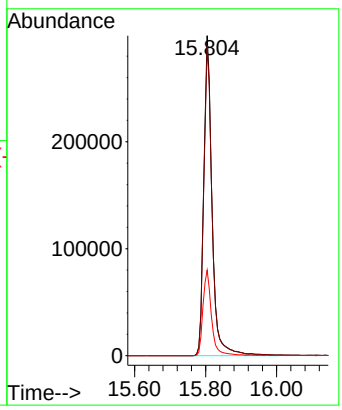


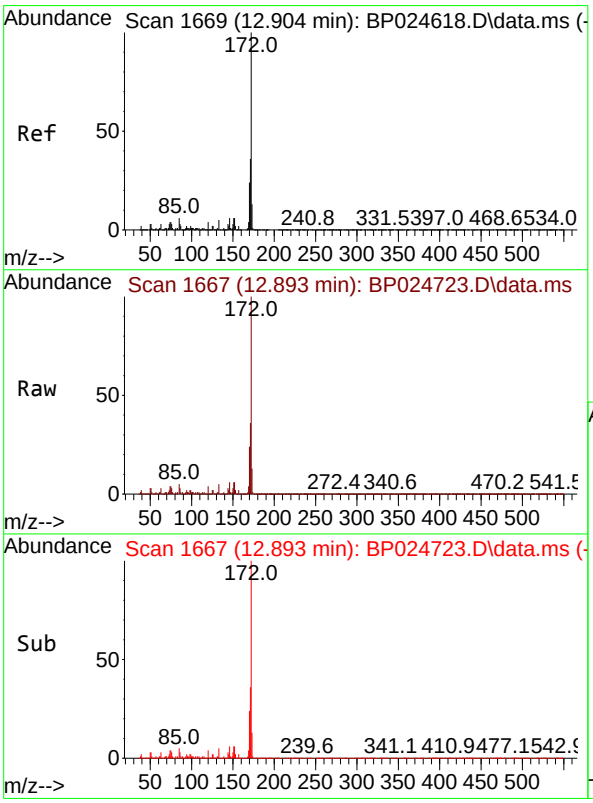
#42
2,4,6-Tribromophenol
Concen: 99.838 ng
RT: 15.804 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024723.D
Acq: 21 May 2025 02:49

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-34-050725

Tgt Ion:330 Resp: 489392

Ion	Ratio	Lower	Upper
330	100		
332	97.8	78.2	117.4
141	27.3	24.3	36.5

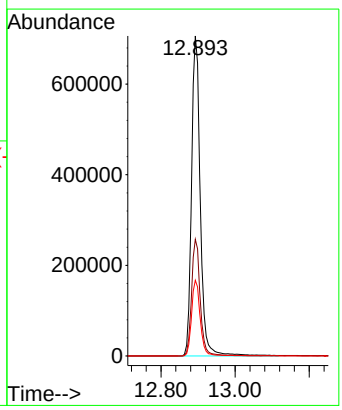


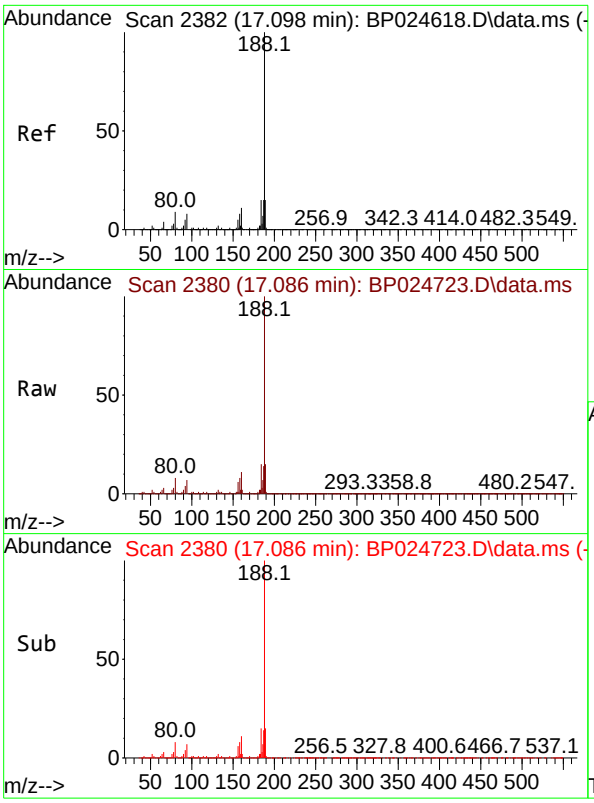


#45
2-Fluorobiphenyl
Concen: 52.581 ng
RT: 12.893 min Scan# 1667
Delta R.T. -0.012 min
Lab File: BP024723.D
Acq: 21 May 2025 02:49

Tgt Ion:172 Resp: 1160467

Ion	Ratio	Lower	Upper
172	100		
171	36.5	28.8	43.2
170	23.6	18.8	28.2



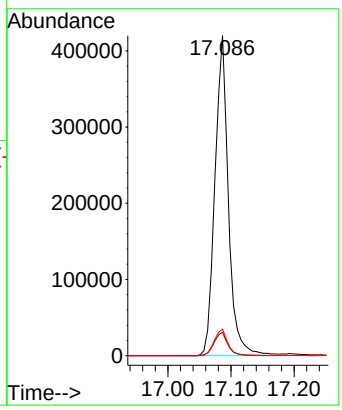


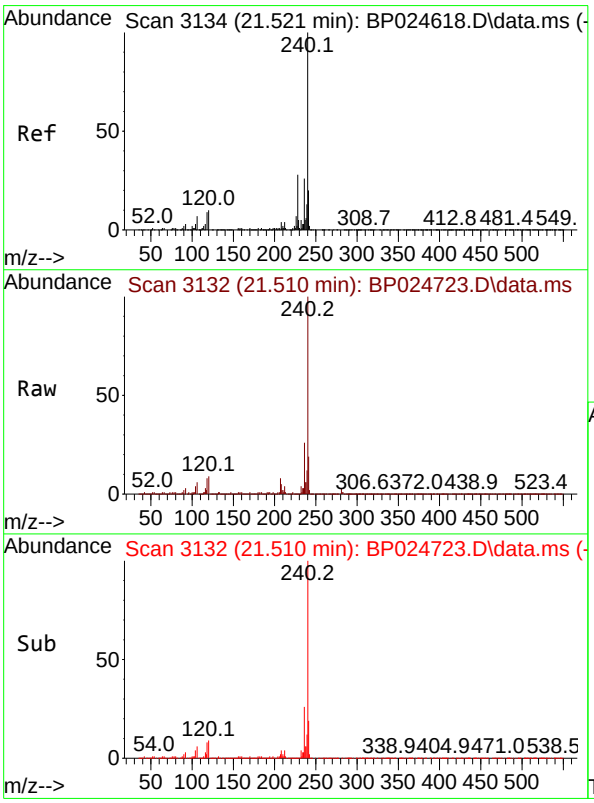
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.086 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024723.D
Acq: 21 May 2025 02:49

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-34-050725

Tgt Ion:188 Resp: 623072

Ion	Ratio	Lower	Upper
188	100		
94	7.3	6.5	9.7
80	8.3	7.3	10.9

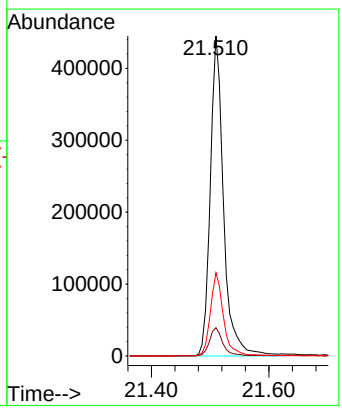


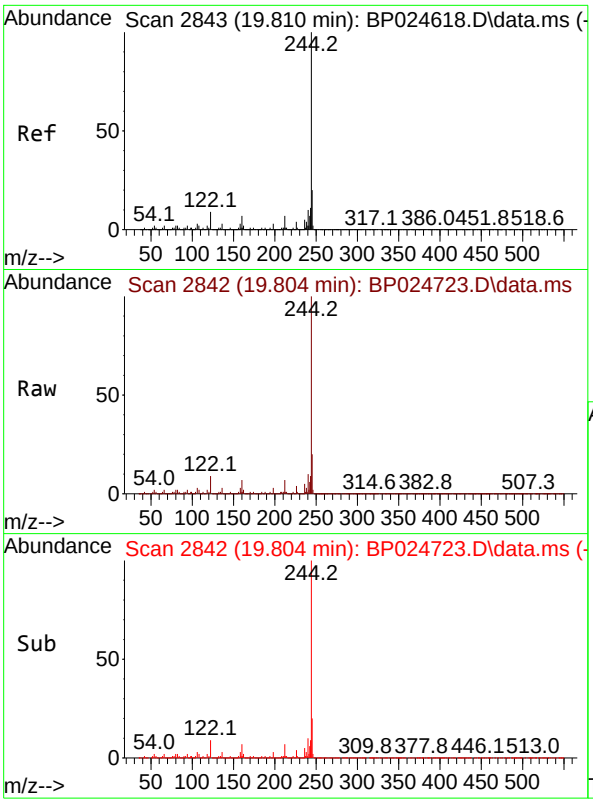


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.510 min Scan# 3132
Delta R.T. -0.012 min
Lab File: BP024723.D
Acq: 21 May 2025 02:49

Tgt Ion:240 Resp: 698807

Ion	Ratio	Lower	Upper
240	100		
120	8.9	7.8	11.6
236	26.0	20.6	31.0



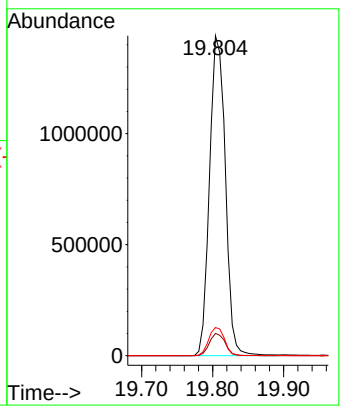


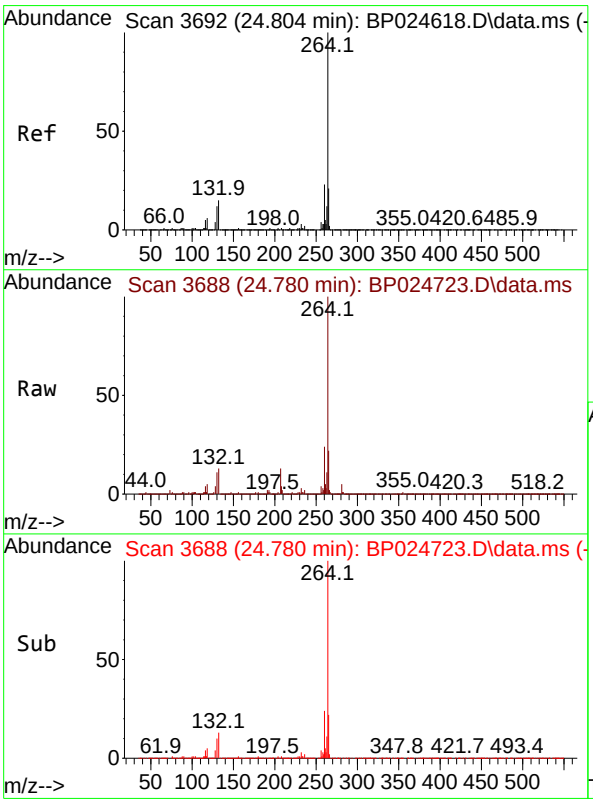
#79
Terphenyl-d14
Concen: 54.675 ng
RT: 19.804 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024723.D
Acq: 21 May 2025 02:49

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-34-050725

Tgt Ion:244 Resp: 2228211

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.5	8.3
122	8.8	7.4	11.0

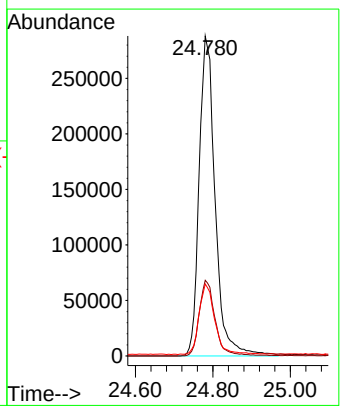




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.780 min Scan# 3688
Delta R.T. -0.023 min
Lab File: BP024723.D
Acq: 21 May 2025 02:49

Tgt Ion:264 Resp: 826708

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.7	28.1
265	22.5	17.0	25.6



Sample Results: **BP024723.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024723.D
Acq On : 21 May 2025 02:49
Operator : RC/JU
Sample : Q1984-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-34-050725

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024723.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.470	62	65	75	rBV	37338	60119	1.01%	0.224%
2	4.822	289	295	305	rBV	106584	159180	2.67%	0.594%
3	5.287	368	374	391	rBV	1210832	1844416	30.91%	6.880%
4	6.858	634	641	671	rBV	969447	1854114	31.07%	6.916%
5	7.652	768	776	786	rBV	417435	663881	11.13%	2.476%
6	8.805	964	972	993	rBV	745929	1304941	21.87%	4.868%
7	10.422	1239	1247	1263	rBV	483403	930566	15.59%	3.471%
8	11.193	1371	1378	1394	rBV2	23164	79656	1.33%	0.297%
9	12.893	1658	1667	1682	rBV	2085805	3393039	56.86%	12.657%
10	14.281	1895	1903	1923	rBV	799022	1241624	20.81%	4.632%
11	14.516	1934	1943	1952	rBV2	51344	113262	1.90%	0.423%
12	15.804	2155	2162	2182	rBV	1887361	3202754	53.67%	11.947%
13	17.086	2373	2380	2394	rBV	1043268	1573735	26.37%	5.871%
14	18.022	2533	2539	2548	rBV	137190	245178	4.11%	0.915%
15	18.457	2609	2613	2620	rBV	73223	90902	1.52%	0.339%
16	19.351	2761	2765	2778	rBV3	52123	117219	1.96%	0.437%
17	19.804	2836	2842	2854	rBV	3818596	5967371	100.00%	22.260%
18	21.180	3072	3076	3087	rVB2	123172	213880	3.58%	0.798%
19	21.510	3127	3132	3149	rBV	1178074	1853038	31.05%	6.912%
20	24.780	3681	3688	3703	rVB	700030	1898402	31.81%	7.082%

Sum of corrected areas: 26807277

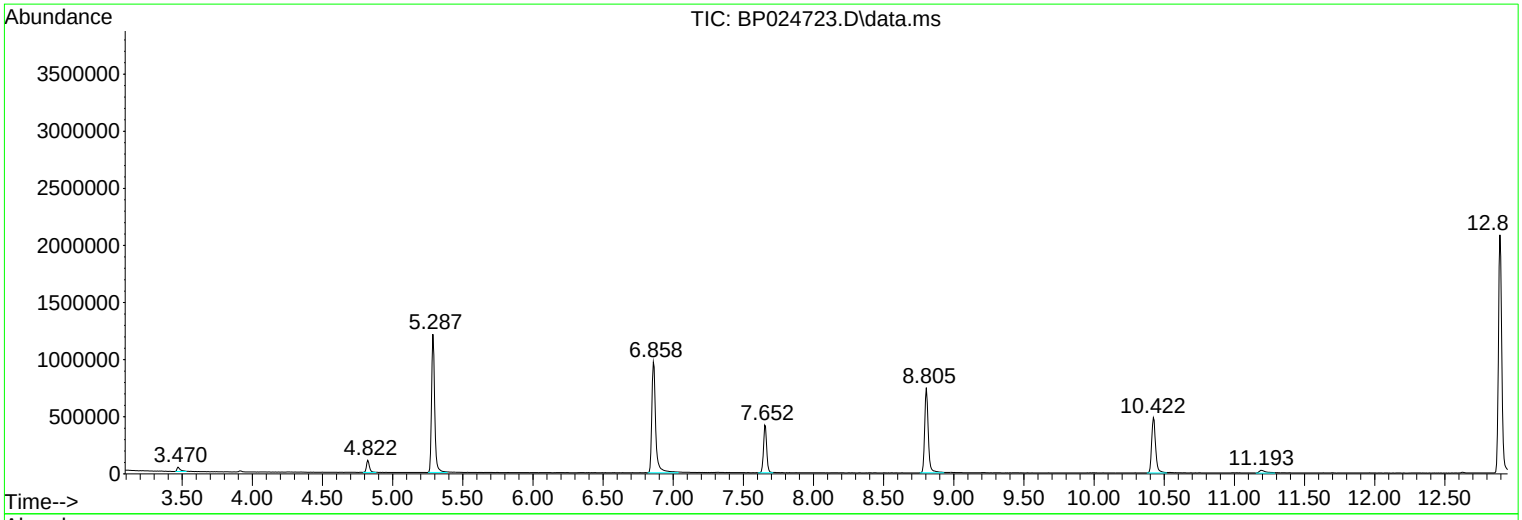
Sample Results: **BP024723.D**

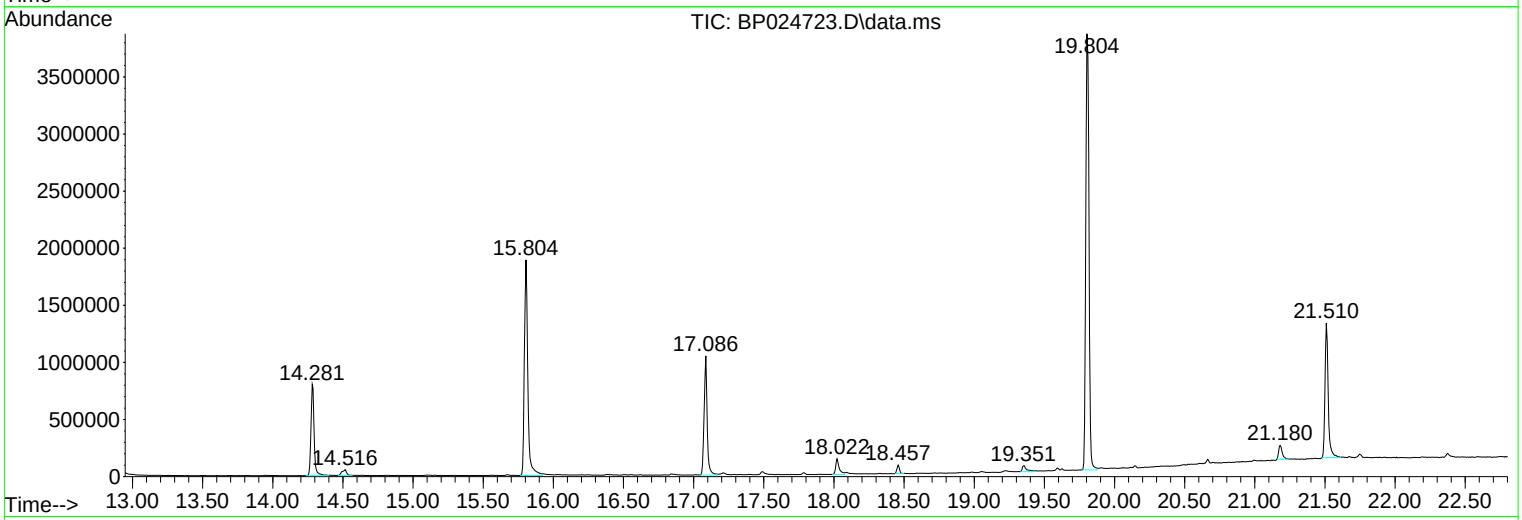
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024723.D
Acq On : 21 May 2025 02:49
Operator : RC/JU
Sample : Q1984-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

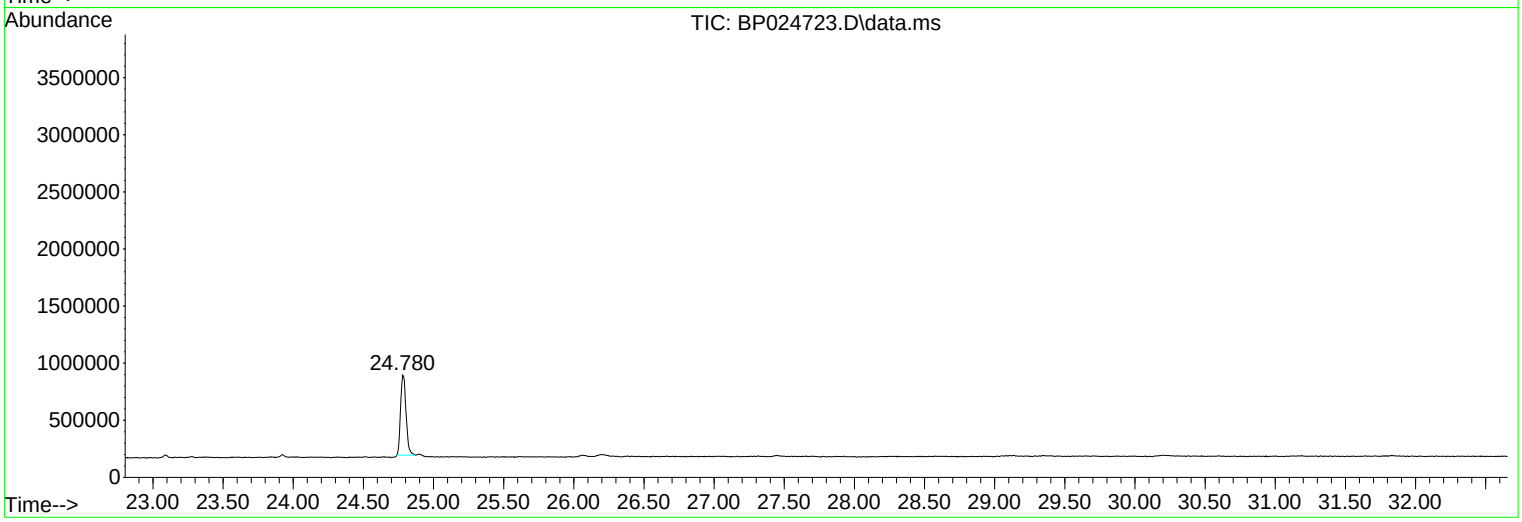
Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-34-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024723.D
Acq On : 21 May 2025 02:49
Operator : RC/JU
Sample : Q1984-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-34-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024723.D
Acq On : 21 May 2025 02:49
Operator : RC/JU
Sample : Q1984-03
Misc :
ALS Vial : 24 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-34-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-35-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	94.4
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024642.D	1	05/13/25 09:05	05/15/25 18:01	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.14	U	0.024	0.14	0.18	mg/Kg
91-57-6	2-Methylnaphthalene	0.14	U	0.027	0.14	0.18	mg/Kg
208-96-8	Acenaphthylene	0.14	U	0.031	0.14	0.18	mg/Kg
83-32-9	Acenaphthene	0.14	U	0.023	0.14	0.18	mg/Kg
86-73-7	Fluorene	0.14	U	0.027	0.14	0.18	mg/Kg
85-01-8	Phenanthrene	0.14	U	0.022	0.14	0.18	mg/Kg
120-12-7	Anthracene	0.14	U	0.035	0.14	0.18	mg/Kg
206-44-0	Fluoranthene	0.14	U	0.032	0.14	0.18	mg/Kg
129-00-0	Pyrene	0.14	U	0.038	0.14	0.18	mg/Kg
56-55-3	Benzo(a)anthracene	0.14	U	0.024	0.14	0.18	mg/Kg
218-01-9	Chrysene	0.14	U	0.021	0.14	0.18	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.14	U	0.020	0.14	0.18	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.14	U	0.024	0.14	0.18	mg/Kg
50-32-8	Benzo(a)pyrene	0.14	U	0.031	0.14	0.18	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.14	U	0.031	0.14	0.18	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.14	U	0.029	0.14	0.18	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.14	U	0.027	0.14	0.18	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	49.0		37 - 122		49%	SPK: 100
321-60-8	2-Fluorobiphenyl	55.4		44 - 115		55%	SPK: 100
1718-51-0	Terphenyl-d14	54.5		54 - 127		55%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	173000	7.663				
1146-65-2	Naphthalene-d8	652000	10.434				
15067-26-2	Acenaphthene-d10	364000	14.292				
1517-22-2	Phenanthrene-d10	628000	17.098				
1719-03-5	Chrysene-d12	642000	21.521				
1520-96-3	Perylene-d12	828000	24.809				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-PCS-TC-35-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-05	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	94.4
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024642.D	1	05/13/25 09:05	05/15/25 18:01	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972608	Alachlor	N.D					
82-68-8	Quintozine	N.D					

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_P\Data\BP051525\
Data File : BP024642.D
Acq On : 15 May 2025 18:01
Operator : RC/JU
Sample : Q1984-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-35-050725

Quant Time: May 15 18:22:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

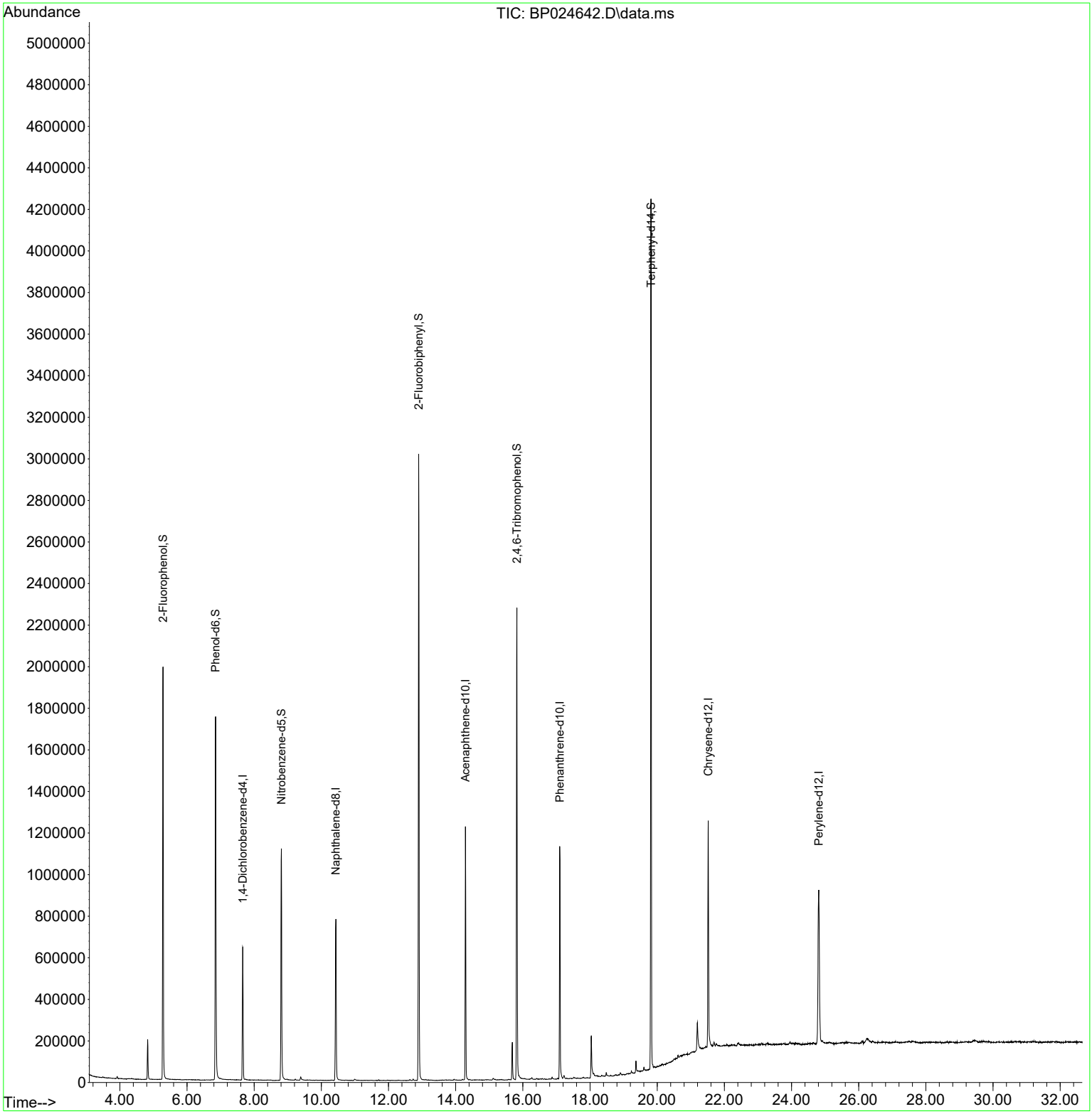
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.663	152	173289	20.000	ng	0.00
21) Naphthalene-d8	10.434	136	651725	20.000	ng	0.00
39) Acenaphthene-d10	14.292	164	363870	20.000	ng	-0.01
64) Phenanthrene-d10	17.098	188	628267	20.000	ng	0.00
76) Chrysene-d12	21.521	240	642463	20.000	ng	0.00
86) Perylene-d12	24.809	264	827790	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	862777	85.156	ng	0.00
7) Phenol-d6	6.851	99	1047651	81.020	ng	0.00
23) Nitrobenzene-d5	8.810	82	632070	49.003	ng	0.00
42) 2,4,6-Tribromophenol	15.822	330	475112	77.020	ng	0.01
45) 2-Fluorobiphenyl	12.898	172	1539495	55.430	ng	0.00
79) Terphenyl-d14	19.815	244	2043872	54.550	ng	0.00
Target Compounds						Qvalue

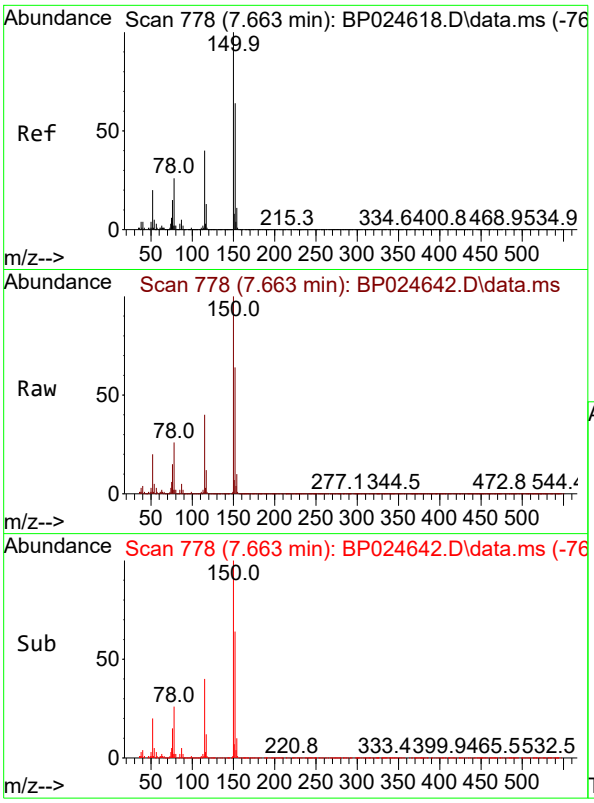
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024642.D
Acq On : 15 May 2025 18:01
Operator : RC/JU
Sample : Q1984-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-35-050725

Quant Time: May 15 18:22:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



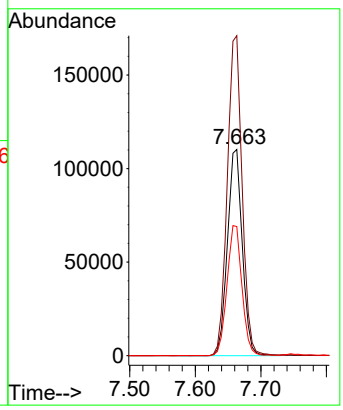


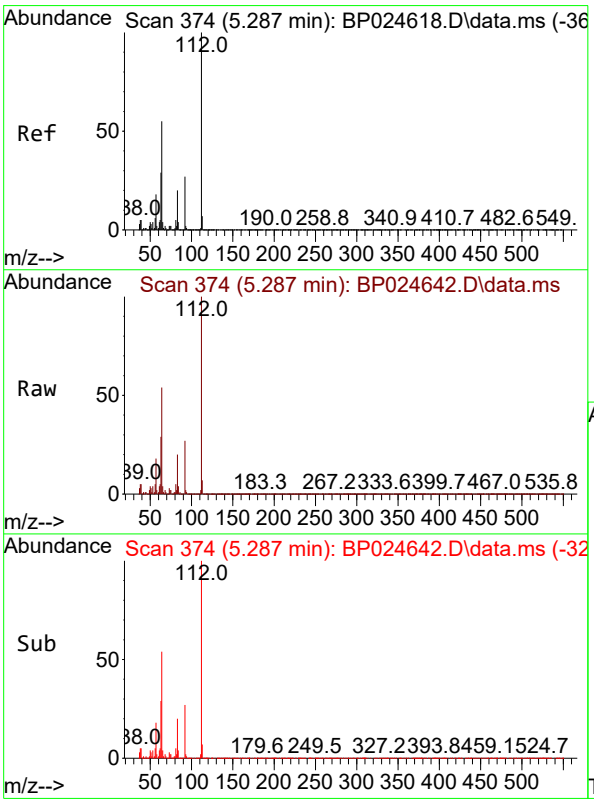
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.663 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024642.D
Acq: 15 May 2025 18:01

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-35-050725

Tgt Ion:152 Resp: 173289

Ion	Ratio	Lower	Upper
152	100		
150	155.1	125.9	188.9
115	62.6	50.1	75.1

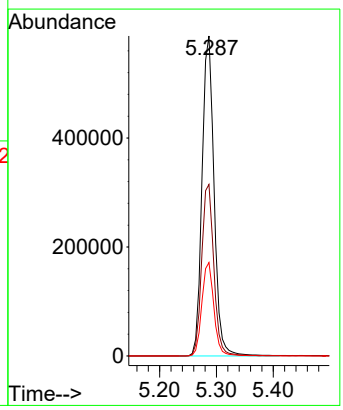


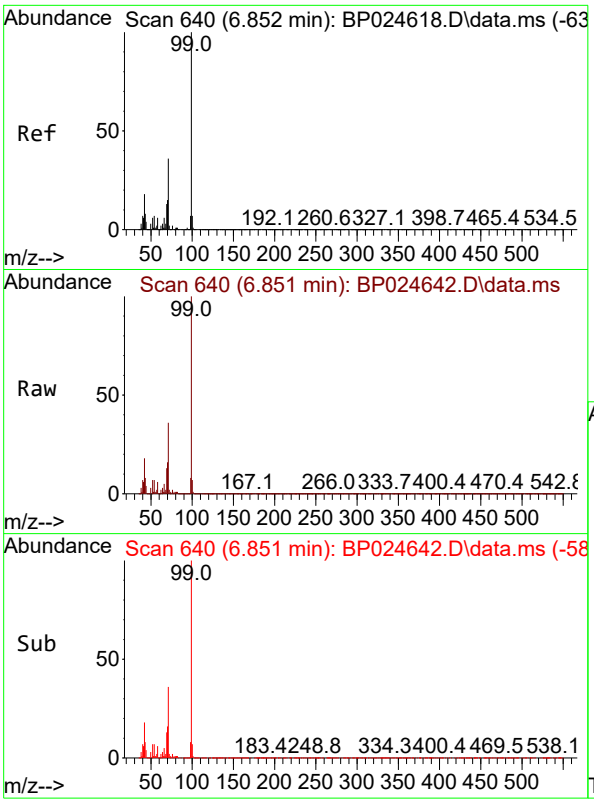


#5
2-Fluorophenol
Concen: 85.156 ng
RT: 5.287 min Scan# 374
Delta R.T. -0.000 min
Lab File: BP024642.D
Acq: 15 May 2025 18:01

Tgt Ion:112 Resp: 862777

Ion	Ratio	Lower	Upper
112	100		
64	53.6	44.1	66.1
63	29.2	23.5	35.3



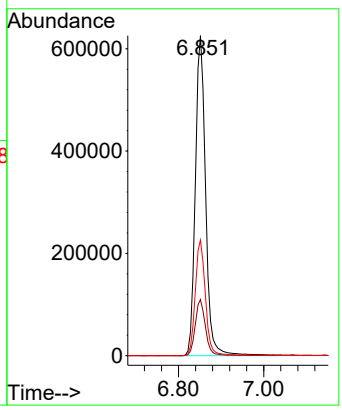


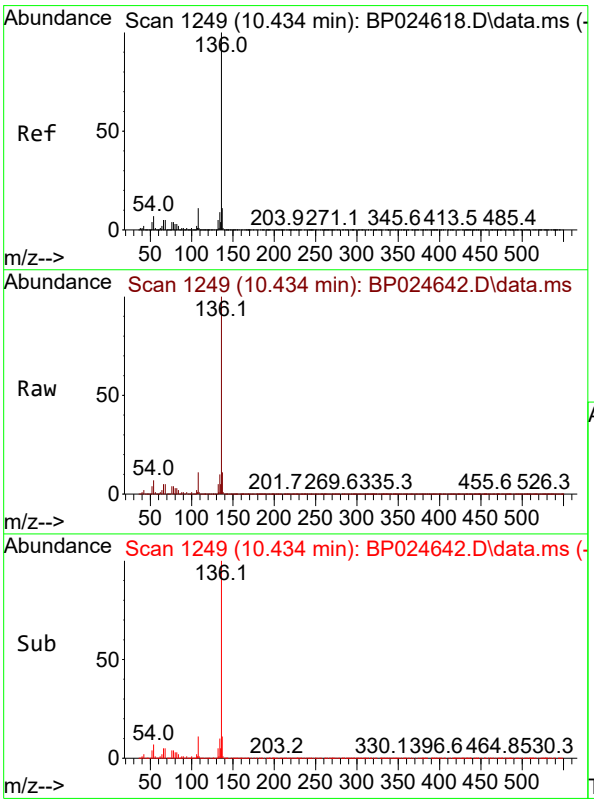
#7
Phenol-d6
Concen: 81.020 ng
RT: 6.851 min Scan# 64
Delta R.T. -0.000 min
Lab File: BP024642.D
Acq: 15 May 2025 18:01

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-35-050725

Tgt Ion: 99 Resp: 1047651

Ion	Ratio	Lower	Upper
99	100		
42	17.5	14.4	21.6
71	36.1	29.2	43.8

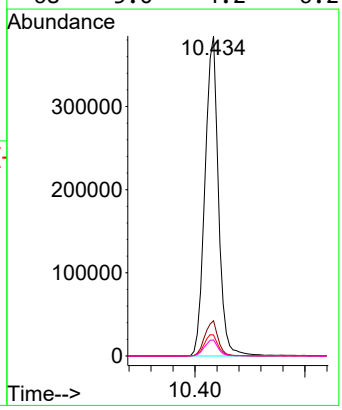


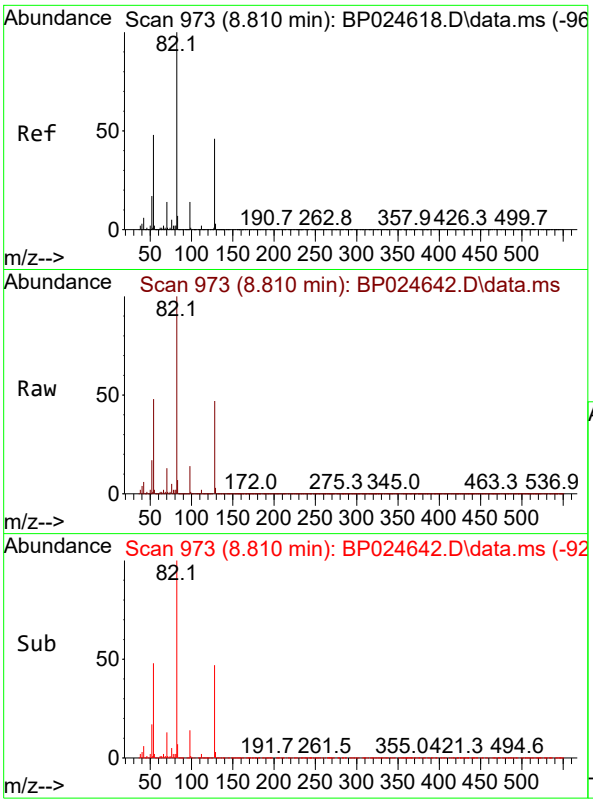


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.434 min Scan# 1249
Delta R.T. -0.000 min
Lab File: BP024642.D
Acq: 15 May 2025 18:01

Tgt Ion:136 Resp: 651725

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	6.6	5.5	8.3
68	5.0	4.2	6.2



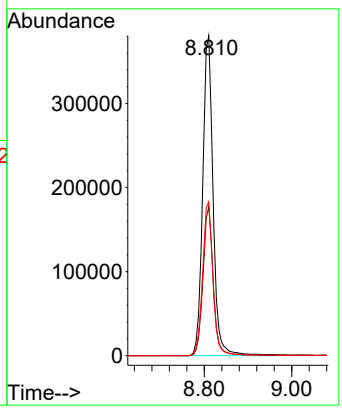


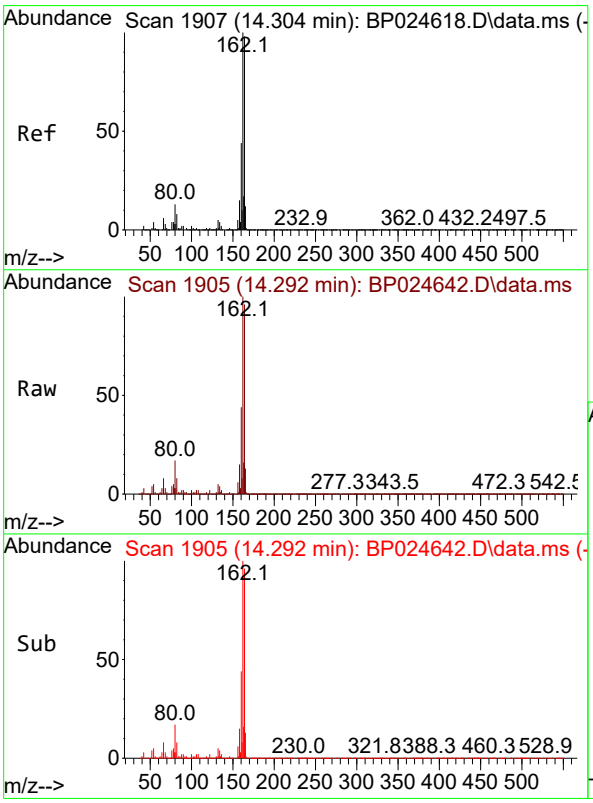
#23
Nitrobenzene-d5
Concen: 49.003 ng
RT: 8.810 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024642.D
Acq: 15 May 2025 18:01

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-35-050725

Tgt Ion: 82 Resp: 632070

Ion	Ratio	Lower	Upper
82	100		
128	46.6	37.0	55.4
54	48.1	38.7	58.1

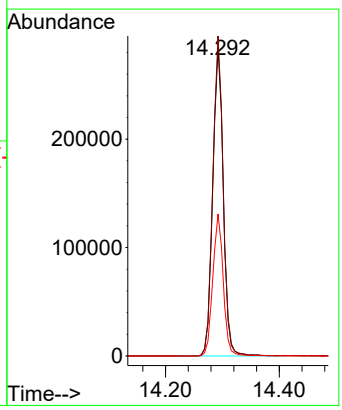


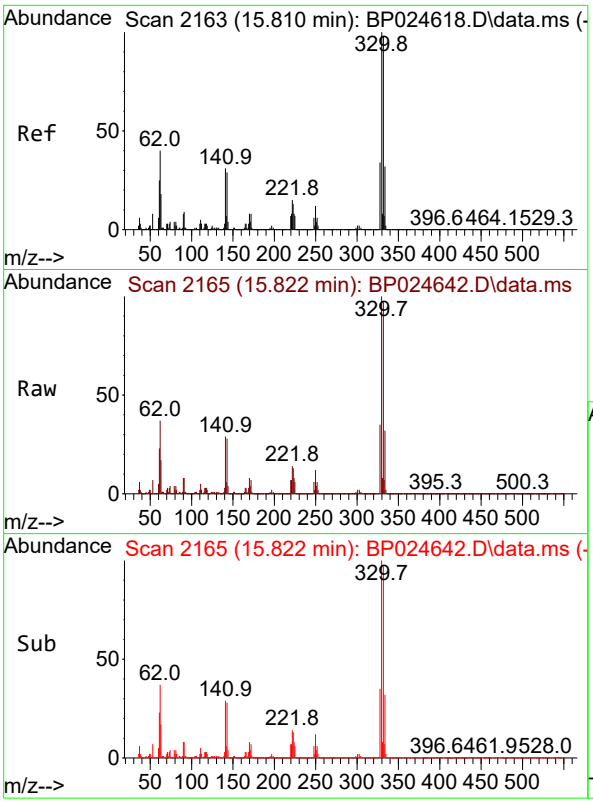


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.292 min Scan# 1905
Delta R.T. -0.012 min
Lab File: BP024642.D
Acq: 15 May 2025 18:01

Tgt Ion:164 Resp: 363870

Ion	Ratio	Lower	Upper
164	100		
162	103.9	81.8	122.6
160	46.1	36.3	54.5



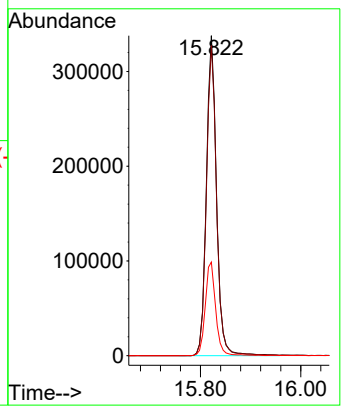


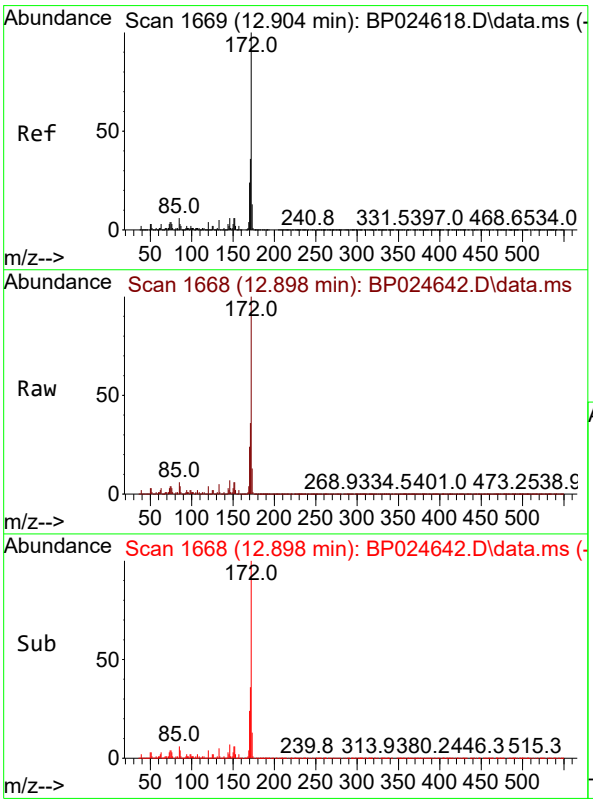
#42
2,4,6-Tribromophenol
Concen: 77.020 ng
RT: 15.822 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP024642.D
Acq: 15 May 2025 18:01

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-35-050725

Tgt Ion:330 Resp: 475112

Ion	Ratio	Lower	Upper
330	100		
332	97.3	78.2	117.4
141	30.2	24.3	36.5

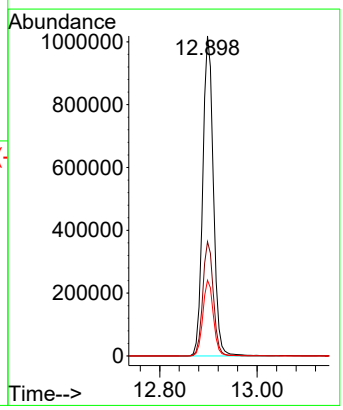


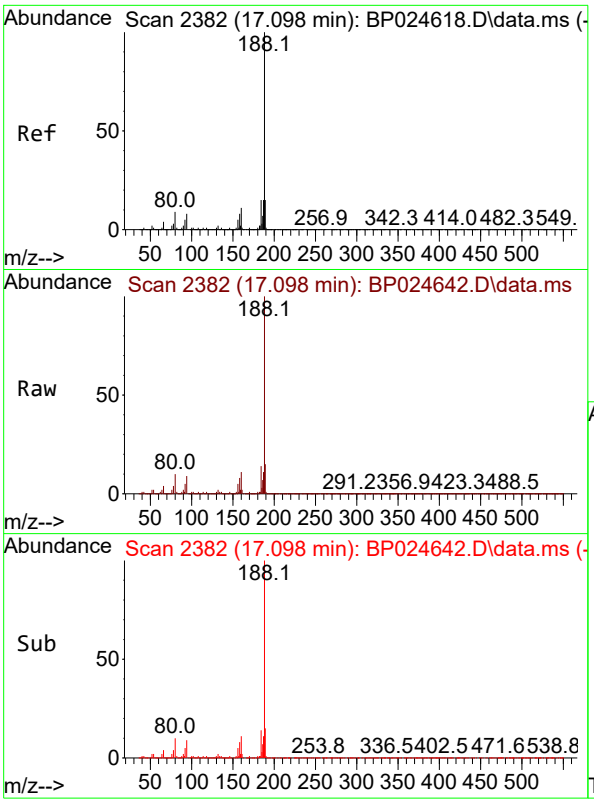


#45
2-Fluorobiphenyl
Concen: 55.430 ng
RT: 12.898 min Scan# 1668
Delta R.T. -0.006 min
Lab File: BP024642.D
Acq: 15 May 2025 18:01

Tgt Ion:172 Resp: 1539495

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.8	43.2
170	23.7	18.8	28.2



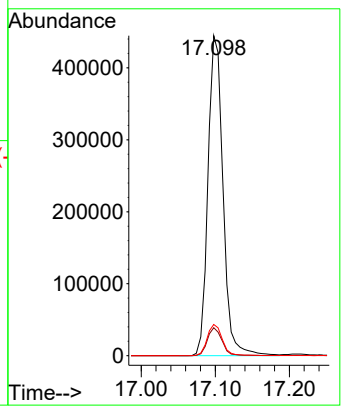


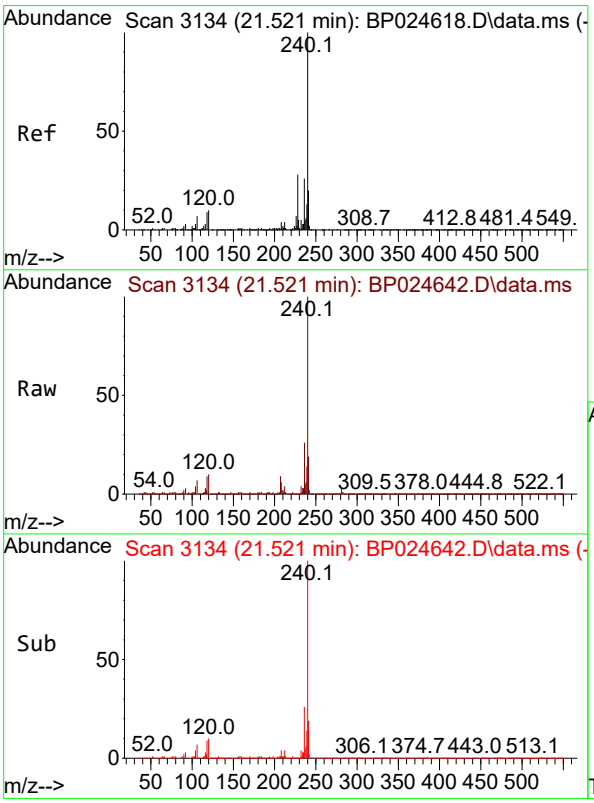
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.098 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024642.D
Acq: 15 May 2025 18:01

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-35-050725

Tgt Ion:188 Resp: 628267

Ion	Ratio	Lower	Upper
188	100		
94	8.8	6.5	9.7
80	9.8	7.3	10.9

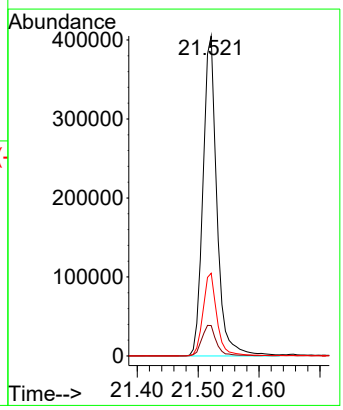


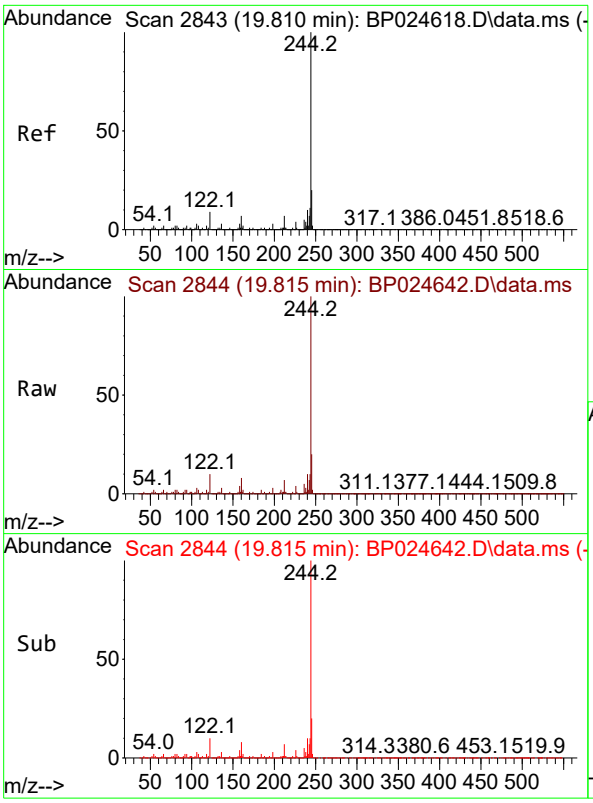


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.521 min Scan# 3134
Delta R.T. -0.000 min
Lab File: BP024642.D
Acq: 15 May 2025 18:01

Tgt Ion:240 Resp: 642463

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.8	11.6
236	25.9	20.6	31.0



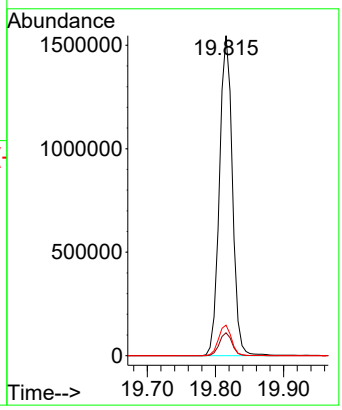


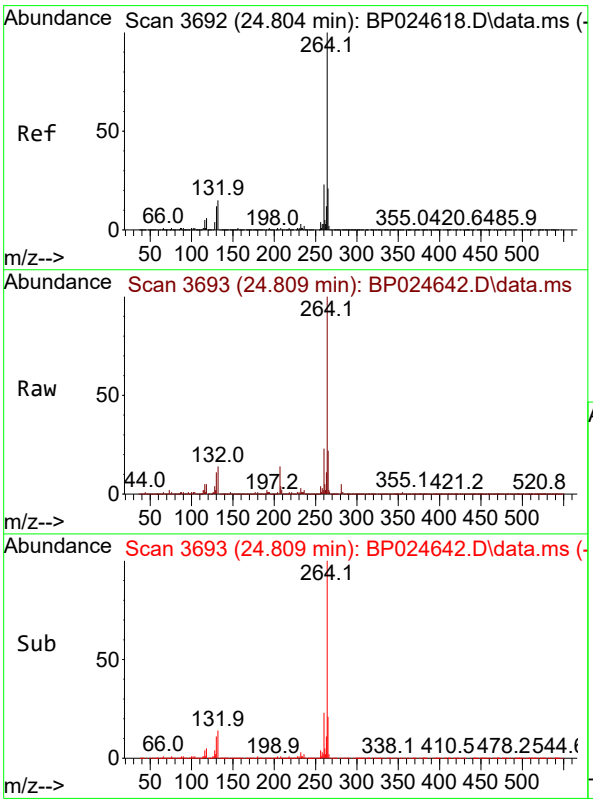
#79
Terphenyl-d14
Concen: 54.550 ng
RT: 19.815 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024642.D
Acq: 15 May 2025 18:01

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-35-050725

Tgt Ion:244 Resp: 2043872

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.5	8.3
122	9.6	7.4	11.0

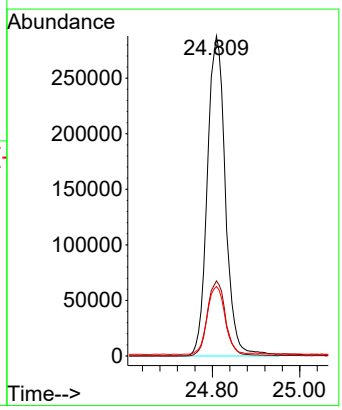




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.809 min Scan# 3693
Delta R.T. 0.006 min
Lab File: BP024642.D
Acq: 15 May 2025 18:01

Tgt Ion:264 Resp: 827790

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.7	28.1
265	21.7	17.0	25.6



Sample Results: **BP024642.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024642.D
Acq On : 15 May 2025 18:01
Operator : RC/JU
Sample : Q1984-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-35-050725

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024642.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.828	290	296	312	rBV	191517	267997	4.86%	0.845%
2	5.287	367	374	387	rBV	1984106	2926983	53.08%	9.226%
3	6.851	630	640	661	rBV	1747057	2955182	53.59%	9.315%
4	7.657	770	777	787	rBV	639067	1017884	18.46%	3.209%
5	8.810	965	973	996	rBV	1114222	1861616	33.76%	5.868%
6	10.434	1239	1249	1263	rBV	776304	1330248	24.12%	4.193%
7	12.898	1661	1668	1684	rBV	3012557	4544626	82.42%	14.326%
8	14.292	1899	1905	1922	rVB	1219277	1572918	28.53%	4.958%
9	15.686	2135	2142	2156	rBV	180952	274100	4.97%	0.864%
10	15.822	2158	2165	2182	rBV	2269441	3300014	59.85%	10.402%
11	17.098	2376	2382	2396	rBV2	1119424	1612725	29.25%	5.084%
12	18.039	2536	2542	2552	rBV	204009	383602	6.96%	1.209%
13	19.368	2764	2768	2773	rBV	56607	81270	1.47%	0.256%
14	19.815	2838	2844	2852	rBV	4183951	5514025	100.00%	17.381%
15	21.198	3074	3079	3091	rBV2	130660	297688	5.40%	0.938%
16	21.521	3128	3134	3148	rBV	1088133	1754123	31.81%	5.529%
17	24.809	3685	3693	3706	rVB2	727853	2029005	36.80%	6.396%

Sum of corrected areas: 31724006

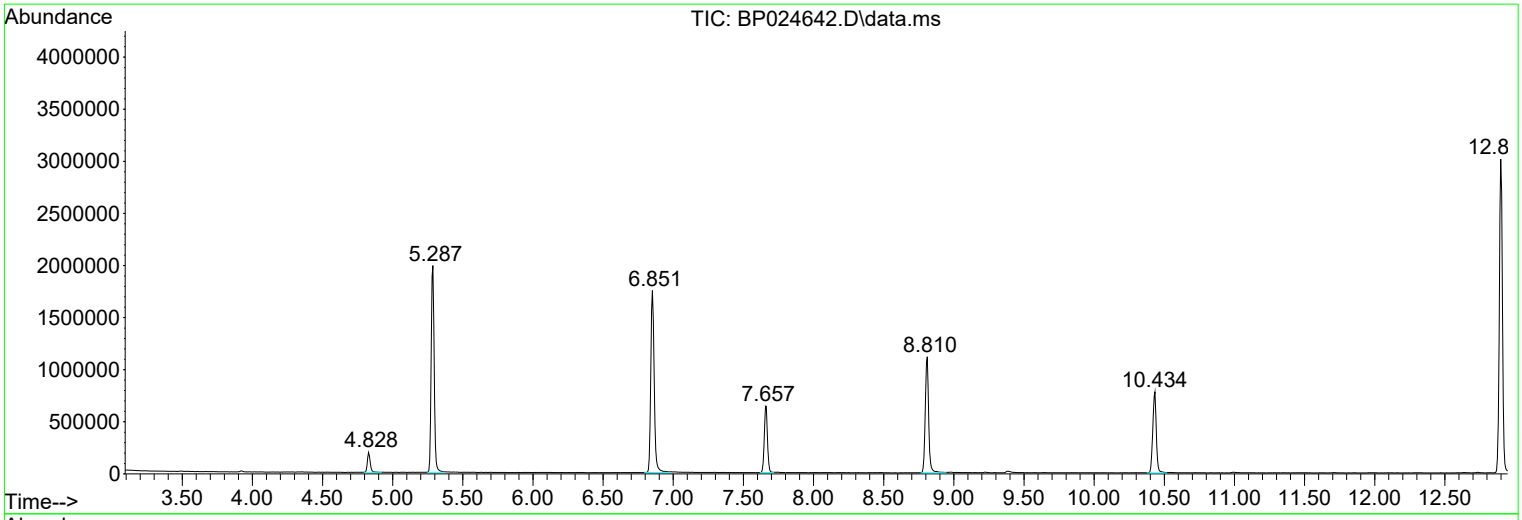
Sample Results: **BP024642.D**

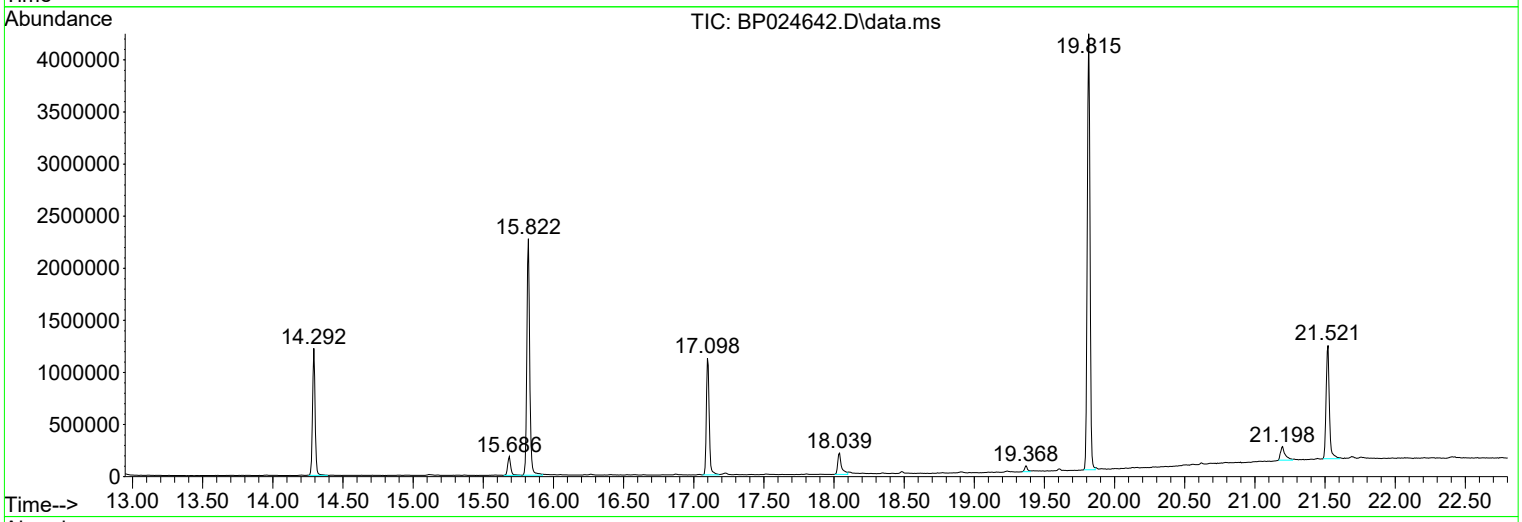
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024642.D
Acq On : 15 May 2025 18:01
Operator : RC/JU
Sample : Q1984-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

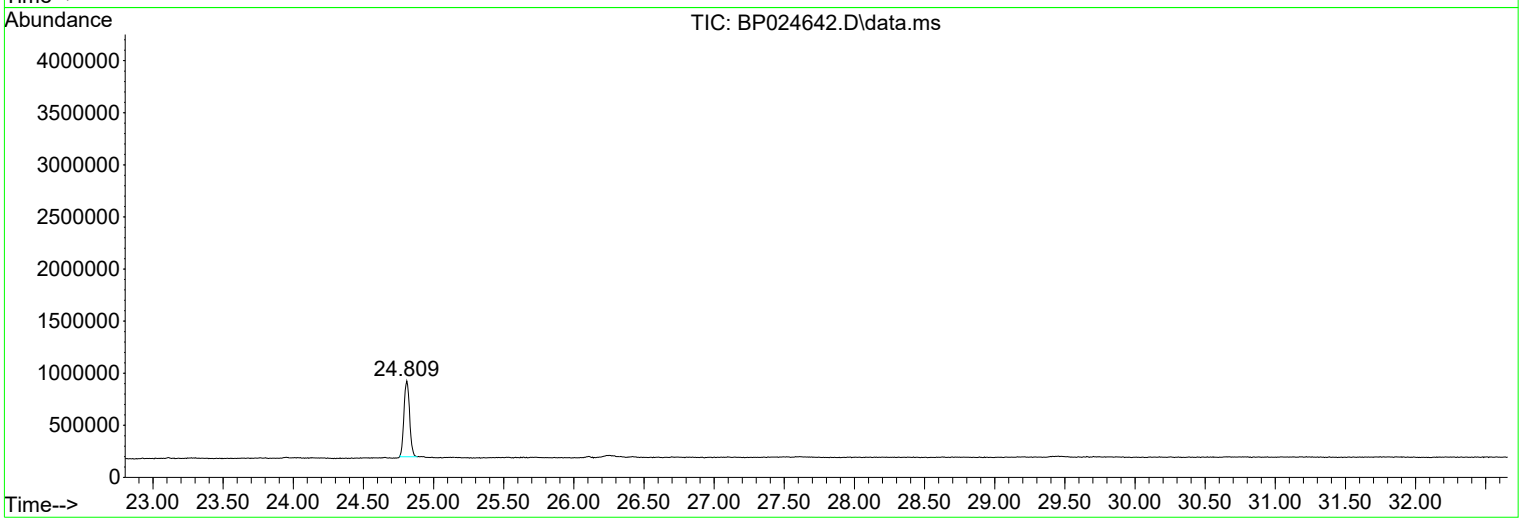
Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-35-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024642.D
Acq On : 15 May 2025 18:01
Operator : RC/JU
Sample : Q1984-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-35-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024642.D
Acq On : 15 May 2025 18:01
Operator : RC/JU
Sample : Q1984-05
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-PCS-TC-35-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-24-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	69.7
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024648.D	1	05/13/25 09:05	05/15/25 22:06	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.19	U	0.033	0.19	0.24	mg/Kg
91-57-6	2-Methylnaphthalene	0.19	U	0.037	0.19	0.24	mg/Kg
208-96-8	Acenaphthylene	0.19	U	0.041	0.19	0.24	mg/Kg
83-32-9	Acenaphthene	0.19	U	0.031	0.19	0.24	mg/Kg
86-73-7	Fluorene	0.19	U	0.036	0.19	0.24	mg/Kg
85-01-8	Phenanthrene	0.19	U	0.030	0.19	0.24	mg/Kg
120-12-7	Anthracene	0.19	U	0.048	0.19	0.24	mg/Kg
206-44-0	Fluoranthene	0.19	U	0.043	0.19	0.24	mg/Kg
129-00-0	Pyrene	0.19	U	0.052	0.19	0.24	mg/Kg
56-55-3	Benzo(a)anthracene	0.19	U	0.033	0.19	0.24	mg/Kg
218-01-9	Chrysene	0.19	U	0.029	0.19	0.24	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.19	U	0.027	0.19	0.24	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.19	U	0.032	0.19	0.24	mg/Kg
50-32-8	Benzo(a)pyrene	0.19	U	0.042	0.19	0.24	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.19	U	0.042	0.19	0.24	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.039	0.19	0.24	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.19	U	0.037	0.19	0.24	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	46.8		37 - 122		47%	SPK: 100
321-60-8	2-Fluorobiphenyl	47.0		44 - 115		47%	SPK: 100
1718-51-0	Terphenyl-d14	45.8	*	54 - 127		46%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	208000	7.658				
1146-65-2	Naphthalene-d8	794000	10.428				
15067-26-2	Acenaphthene-d10	460000	14.292				
1517-22-2	Phenanthrene-d10	854000	17.086				
1719-03-5	Chrysene-d12	968000	21.516				
1520-96-3	Perylene-d12	1170000	24.798				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-24-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-07	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	69.7
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024648.D	1	05/13/25 09:05	05/15/25 22:06	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972608	Alachlor	N.D					
82-68-8	Quintozine	N.D					

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_P\Data\BP051525\
Data File : BP024648.D
Acq On : 15 May 2025 22:06
Operator : RC/JU
Sample : Q1984-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-24-050725

Quant Time: May 16 01:19:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

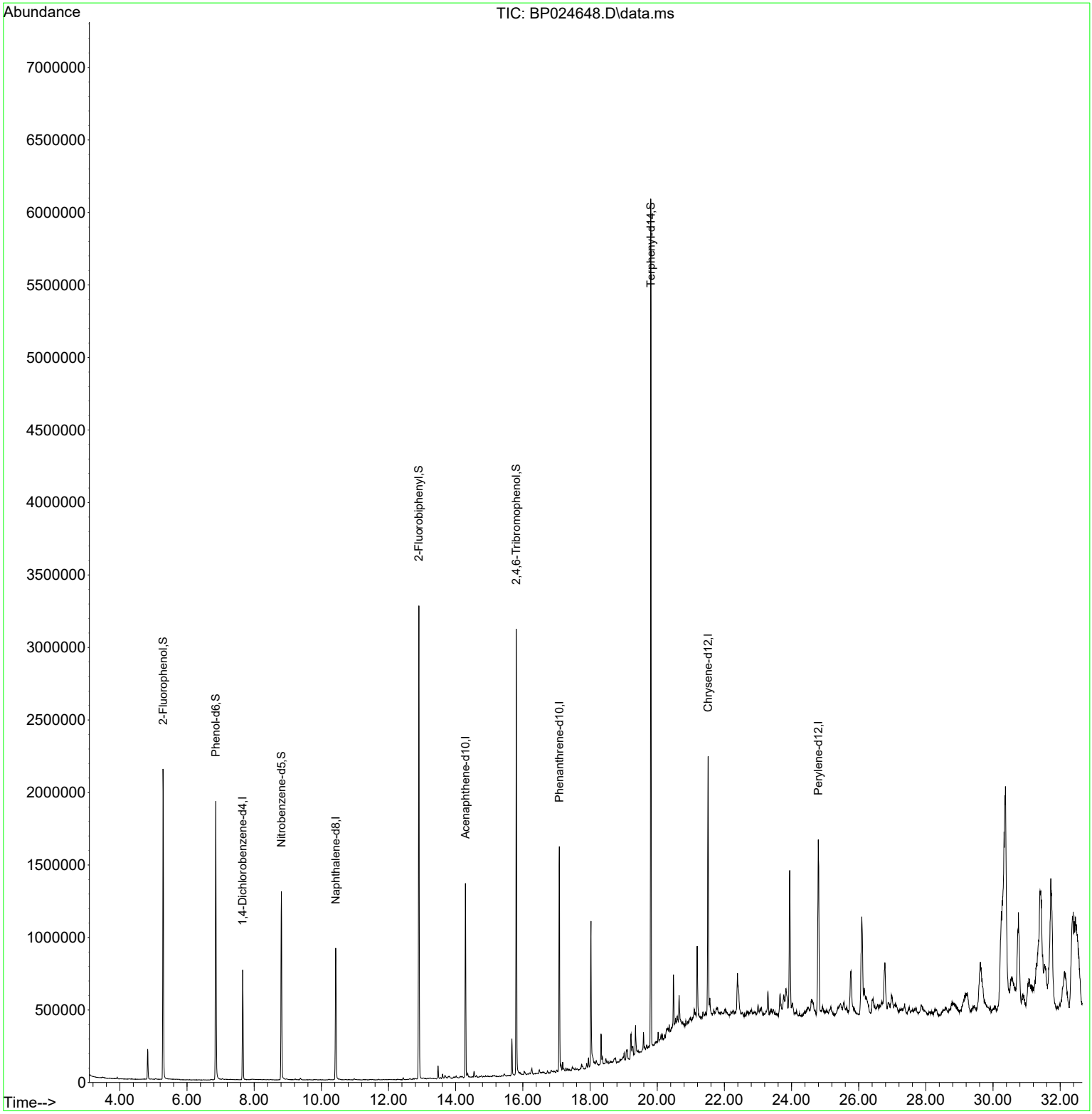
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	208034	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	794179	20.000	ng	0.00
39) Acenaphthene-d10	14.292	164	459760	20.000	ng	-0.01
64) Phenanthrene-d10	17.086	188	854275	20.000	ng	-0.01
76) Chrysene-d12	21.516	240	968283	20.000	ng	0.00
86) Perylene-d12	24.798	264	1168790	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	936296	76.978	ng	0.00
7) Phenol-d6	6.858	99	1088370	70.111	ng	0.00
23) Nitrobenzene-d5	8.810	82	734988	46.761	ng	0.00
42) 2,4,6-Tribromophenol	15.804	330	589276	75.604	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	1651068	47.049	ng	0.00
79) Terphenyl-d14	19.810	244	2587308	45.818	ng	0.00
Target Compounds						Qvalue

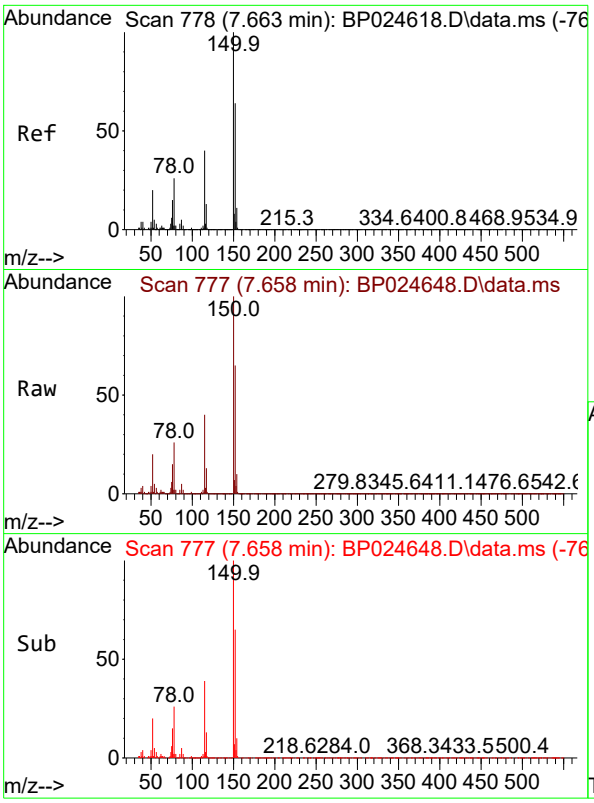
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024648.D
Acq On : 15 May 2025 22:06
Operator : RC/JU
Sample : Q1984-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-24-050725

Quant Time: May 16 01:19:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



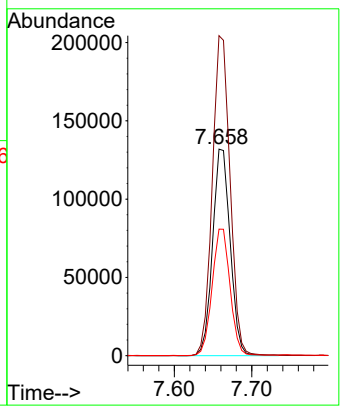


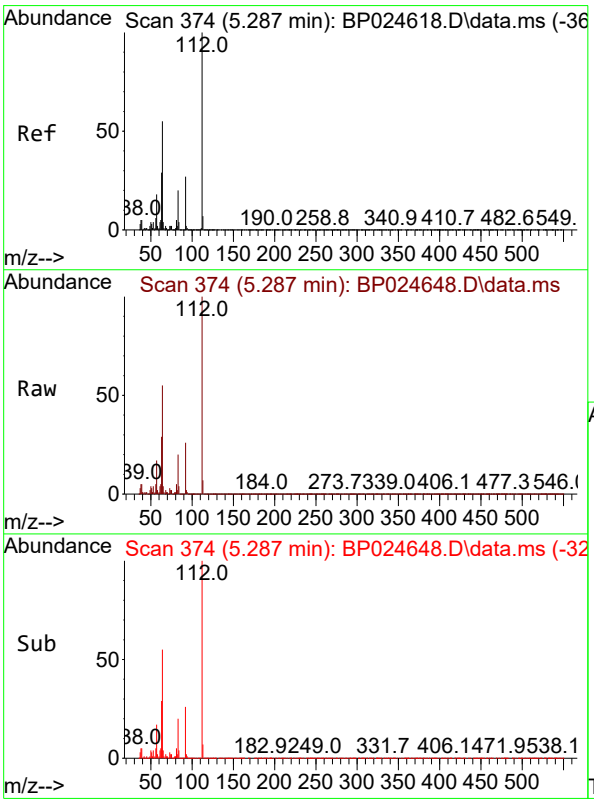
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.658 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024648.D
Acq: 15 May 2025 22:06

Instrument :
BNA_P
ClientSampleId :
OU4-TS-24-050725

Tgt Ion:152 Resp: 208034

Ion	Ratio	Lower	Upper
152	100		
150	154.9	125.9	188.9
115	61.2	50.1	75.1

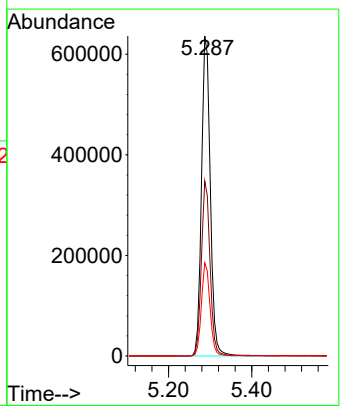


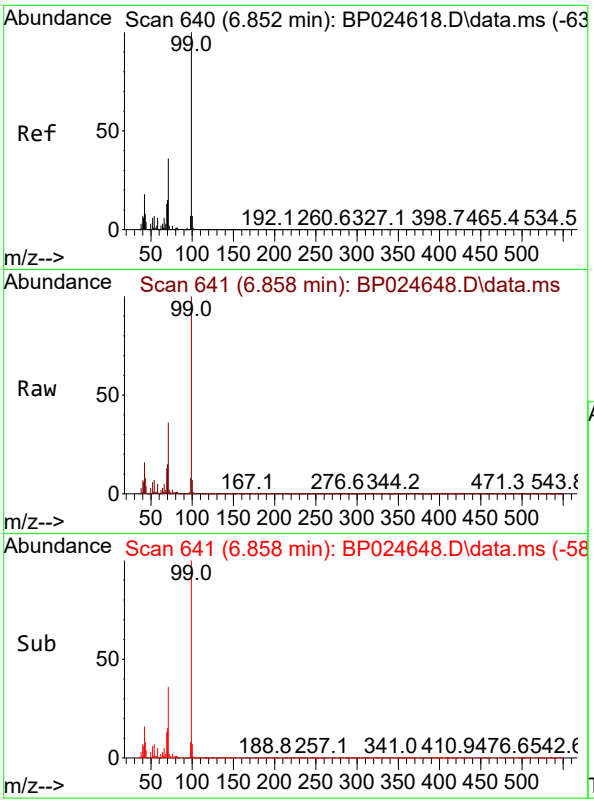


#5
2-Fluorophenol
Concen: 76.978 ng
RT: 5.287 min Scan# 374
Delta R.T. 0.000 min
Lab File: BP024648.D
Acq: 15 May 2025 22:06

Tgt Ion:112 Resp: 936296

Ion	Ratio	Lower	Upper
112	100		
64	54.7	44.1	66.1
63	29.1	23.5	35.3



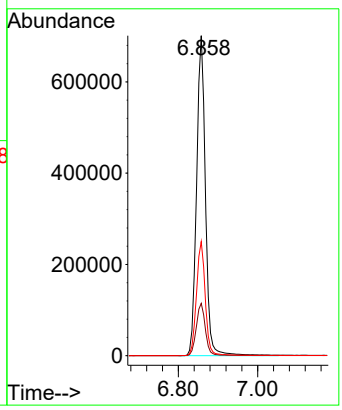


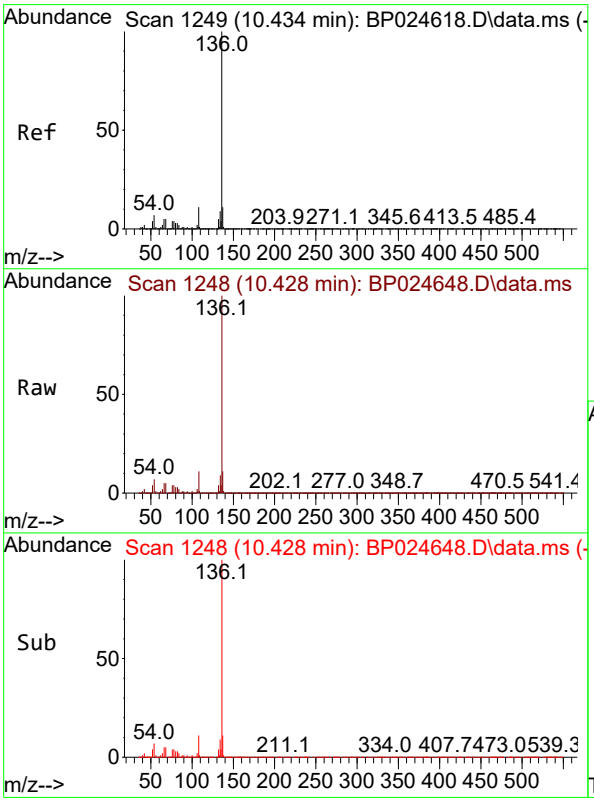
#7
Phenol-d6
Concen: 70.111 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024648.D
Acq: 15 May 2025 22:06

Instrument :
BNA_P
ClientSampleId :
OU4-TS-24-050725

Tgt Ion: 99 Resp: 1088370

Ion	Ratio	Lower	Upper
99	100		
42	16.3	14.4	21.6
71	35.6	29.2	43.8

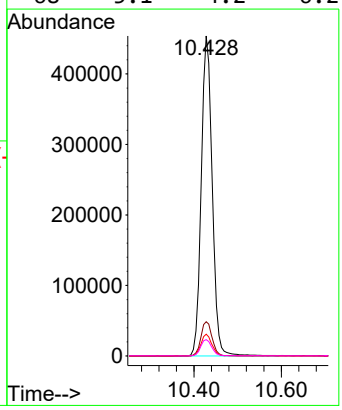


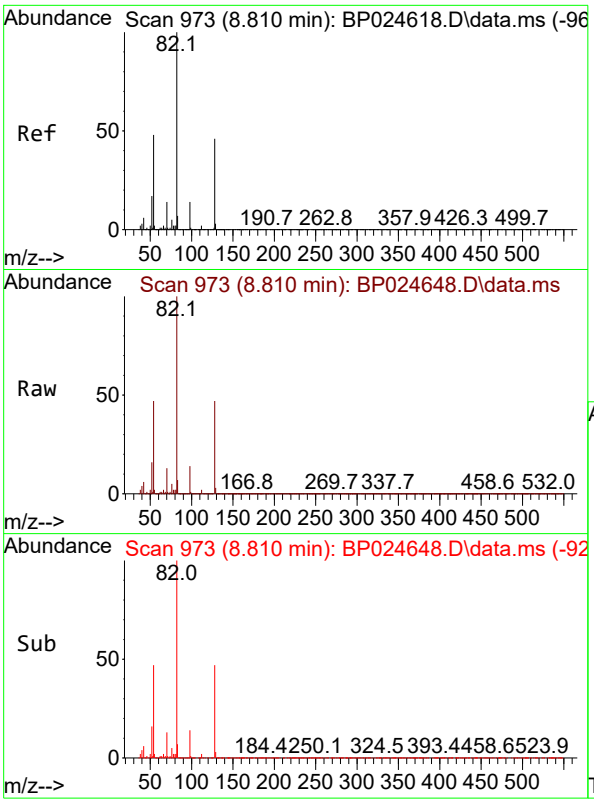


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.428 min Scan# 1248
Delta R.T. -0.006 min
Lab File: BP024648.D
Acq: 15 May 2025 22:06

Tgt Ion:136 Resp: 794179

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	6.8	5.5	8.3
68	5.1	4.2	6.2



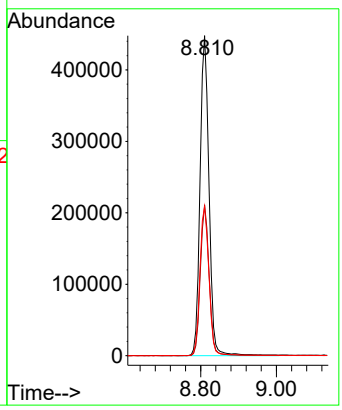


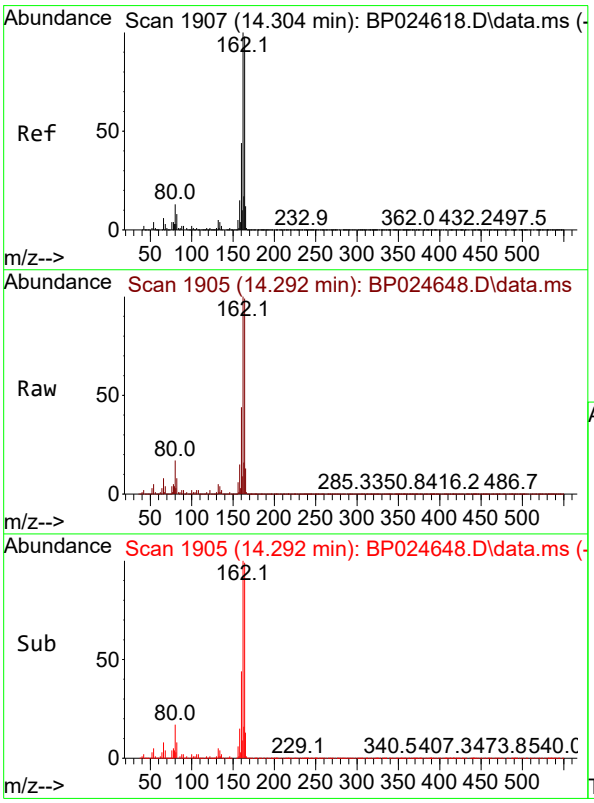
#23
Nitrobenzene-d5
Concen: 46.761 ng
RT: 8.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024648.D
Acq: 15 May 2025 22:06

Instrument :
BNA_P
ClientSampleId :
OU4-TS-24-050725

Tgt Ion: 82 Resp: 734988

Ion	Ratio	Lower	Upper
82	100		
128	47.1	37.0	55.4
54	46.6	38.7	58.1

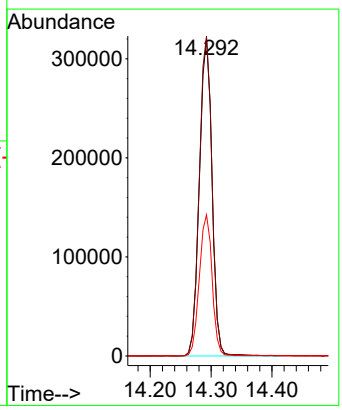


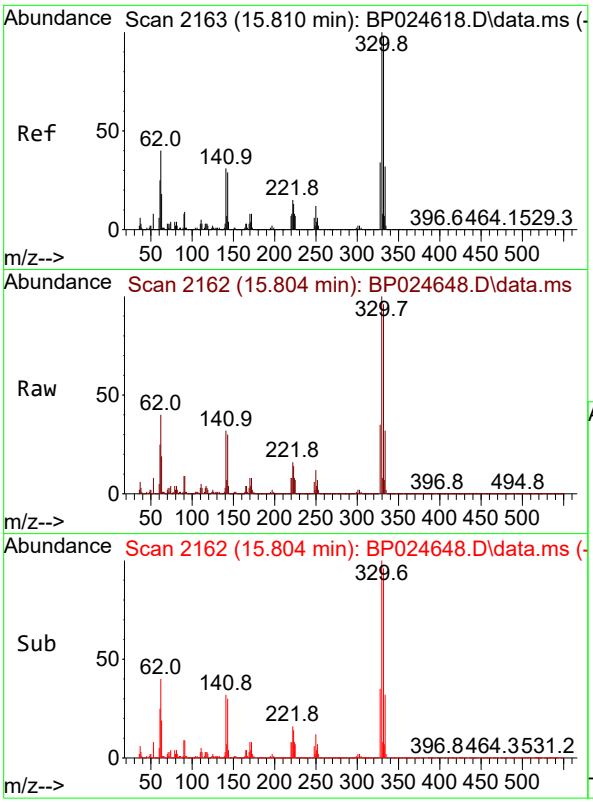


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.292 min Scan# 1905
Delta R.T. -0.012 min
Lab File: BP024648.D
Acq: 15 May 2025 22:06

Tgt Ion:164 Resp: 459760

Ion	Ratio	Lower	Upper
164	100		
162	100.7	81.8	122.6
160	44.4	36.3	54.5



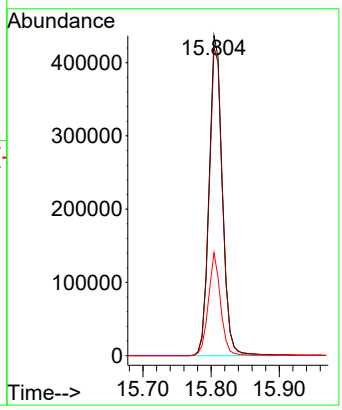


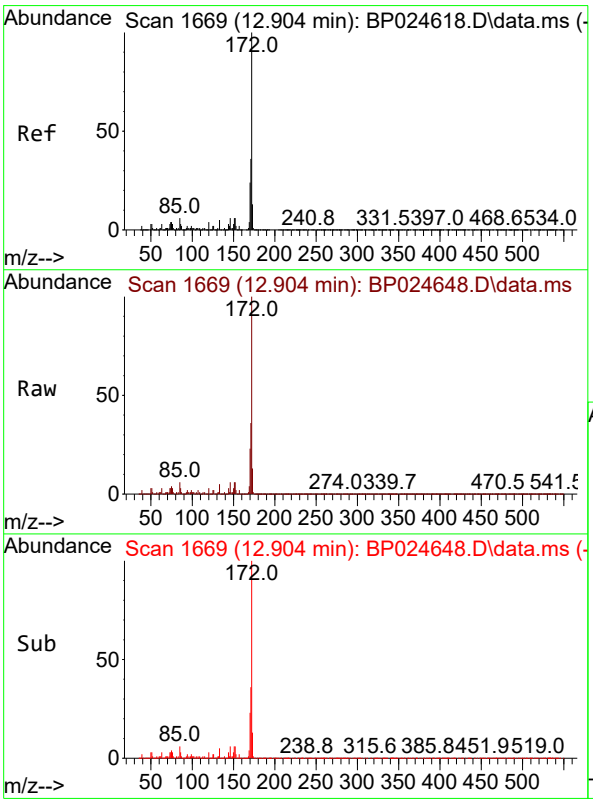
#42
2,4,6-Tribromophenol
Concen: 75.604 ng
RT: 15.804 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024648.D
Acq: 15 May 2025 22:06

Instrument :
BNA_P
ClientSampleId :
OU4-TS-24-050725

Tgt Ion:330 Resp: 589276

Ion	Ratio	Lower	Upper
330	100		
332	97.7	78.2	117.4
141	29.5	24.3	36.5

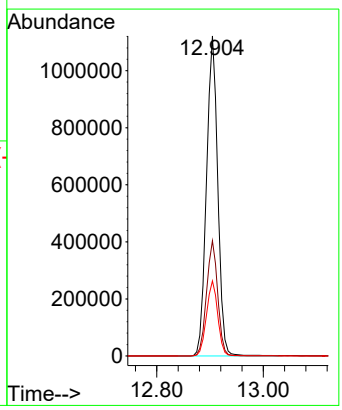


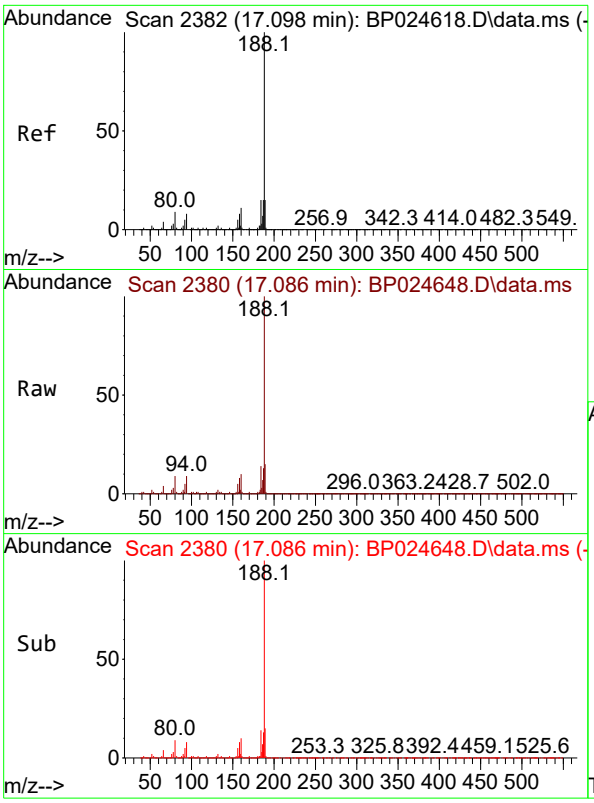


#45
2-Fluorobiphenyl
Concen: 47.049 ng
RT: 12.904 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BP024648.D
Acq: 15 May 2025 22:06

Tgt Ion:172 Resp: 1651068

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.5	18.8	28.2



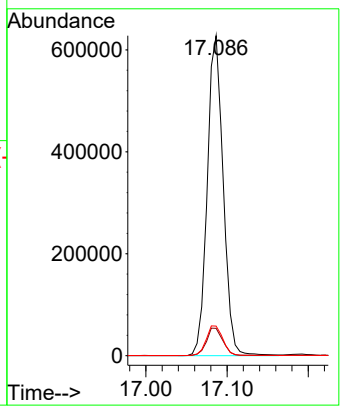


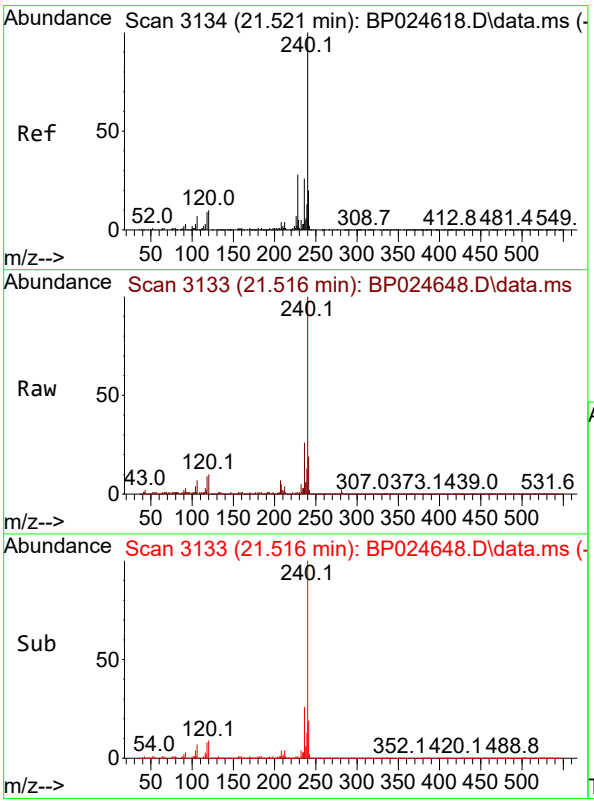
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.086 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024648.D
Acq: 15 May 2025 22:06

Instrument :
BNA_P
ClientSampleId :
OU4-TS-24-050725

Tgt Ion:188 Resp: 854275

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.5	9.7
80	9.3	7.3	10.9

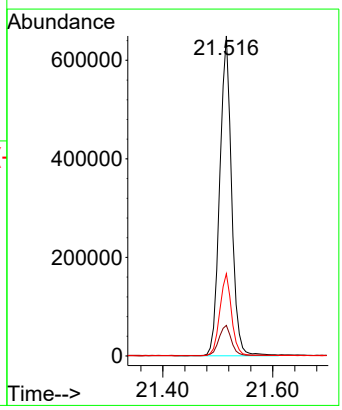


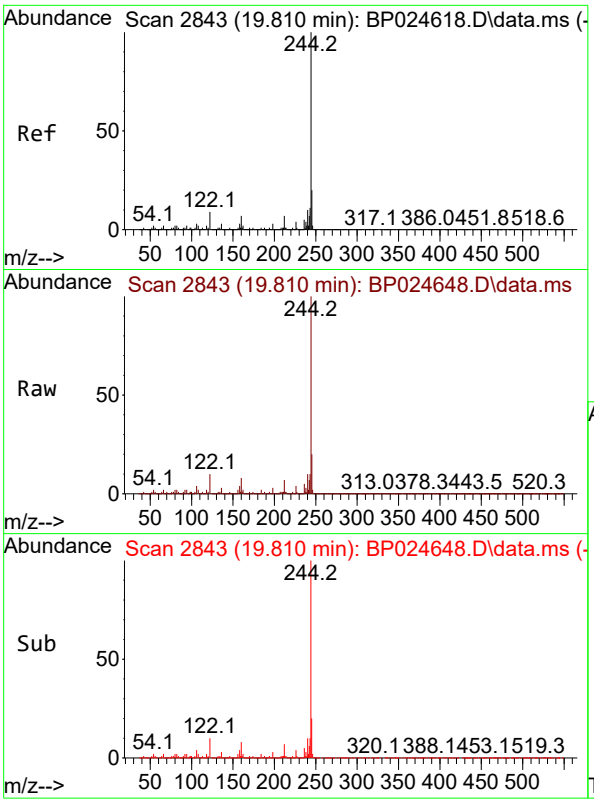


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.516 min Scan# 3133
Delta R.T. -0.006 min
Lab File: BP024648.D
Acq: 15 May 2025 22:06

Tgt Ion:240 Resp: 968283

Ion	Ratio	Lower	Upper
240	100		
120	9.6	7.8	11.6
236	25.7	20.6	31.0



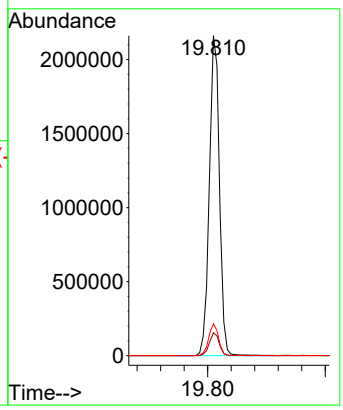


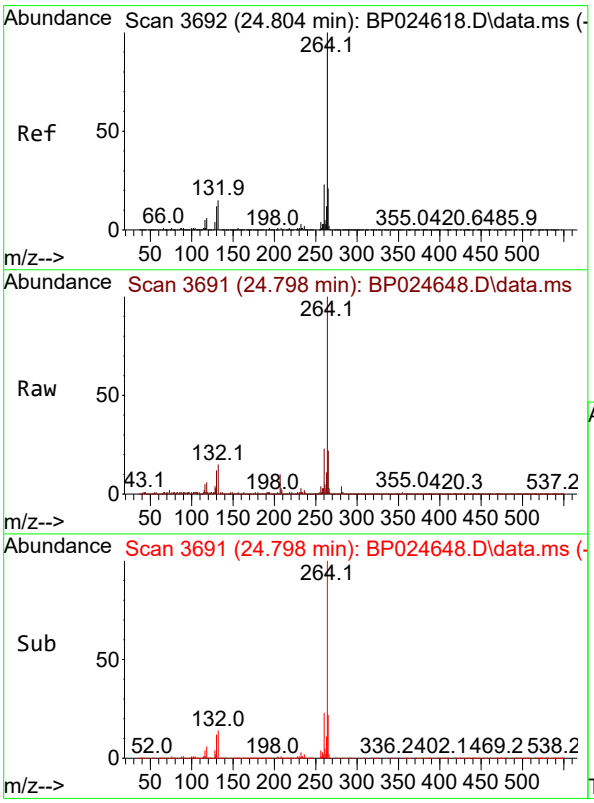
#79
Terphenyl-d14
Concen: 45.818 ng
RT: 19.810 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024648.D
Acq: 15 May 2025 22:06

Instrument :
BNA_P
ClientSampleId :
OU4-TS-24-050725

Tgt Ion:244 Resp: 2587308

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.5	8.3
122	10.0	7.4	11.0

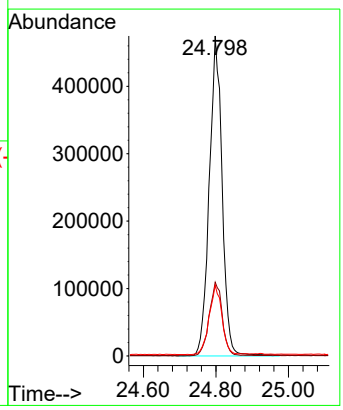




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.798 min Scan# 3691
Delta R.T. -0.006 min
Lab File: BP024648.D
Acq: 15 May 2025 22:06

Tgt Ion:264 Resp: 1168790

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.7	28.1
265	22.1	17.0	25.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024648.D
Acq On : 15 May 2025 22:06
Operator : RC/JU
Sample : Q1984-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-24-050725

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024648.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.828	291	296	309	rVB	207693	297041	4.32%	0.622%
2	5.287	368	374	393	rBV	2139567	3129470	45.53%	6.548%
3	6.858	634	641	661	rBV	1919423	3003385	43.70%	6.284%
4	7.658	771	777	787	rBV	757293	1205341	17.54%	2.522%
5	8.810	965	973	985	rBV	1299146	2128082	30.96%	4.453%
6	10.428	1241	1248	1261	rBV	905314	1581179	23.01%	3.308%
7	12.904	1660	1669	1679	rBV	3264136	4811433	70.01%	10.067%
8	13.475	1759	1766	1773	rBV2	91082	140802	2.05%	0.295%
9	14.292	1896	1905	1912	rBV	1340734	1967400	28.63%	4.117%
10	15.675	2134	2140	2152	rBV	254733	369312	5.37%	0.773%
11	15.804	2156	2162	2174	rBV	3072721	4009131	58.33%	8.389%
12	16.269	2234	2241	2247	rVB6	38915	82631	1.20%	0.173%
13	17.086	2374	2380	2385	rBV2	1549782	2136793	31.09%	4.471%
14	17.957	2524	2528	2532	rBV2	61383	81502	1.19%	0.171%
15	18.028	2535	2540	2557	rBV	997861	1587922	23.10%	3.323%
16	18.328	2587	2591	2595	rBV	206176	279849	4.07%	0.586%
17	19.092	2716	2721	2722	rBV3	61598	100499	1.46%	0.210%
18	19.222	2737	2743	2747	rBV	172936	342974	4.99%	0.718%
19	19.357	2762	2766	2775	rBV2	193708	314002	4.57%	0.657%
20	19.592	2803	2806	2809	rVB	106246	118456	1.72%	0.248%
21	19.810	2838	2843	2850	rBV	5839891	6872740	100.00%	14.381%
22	20.027	2878	2880	2884	rVB	64550	71564	1.04%	0.150%
23	20.486	2954	2958	2962	rBV3	347710	456411	6.64%	0.955%
24	20.651	2983	2986	2992	rBV	176264	249797	3.63%	0.523%
25	21.192	3073	3078	3092	rVB	491762	869691	12.65%	1.820%
26	21.516	3127	3133	3139	rBV	1748084	2687042	39.10%	5.622%
27	22.392	3277	3282	3298	rVB2	280078	887772	12.92%	1.858%
28	23.945	3540	3546	3554	rVB	949524	2015443	29.33%	4.217%
29	24.798	3683	3691	3703	rVB	1183900	2818105	41.00%	5.897%
30	26.092	3904	3911	3919	rBV	561846	1575311	22.92%	3.296%
31	30.250	4609	4618	4619	rBV3	482265	1110975	16.16%	2.325%
32	30.327	4629	4631	4632	rBV	291793	228434	3.32%	0.478%
33	31.721	4865	4868	4869	rBV	276684	261275	3.80%	0.547%

Sum of corrected areas: 47791764

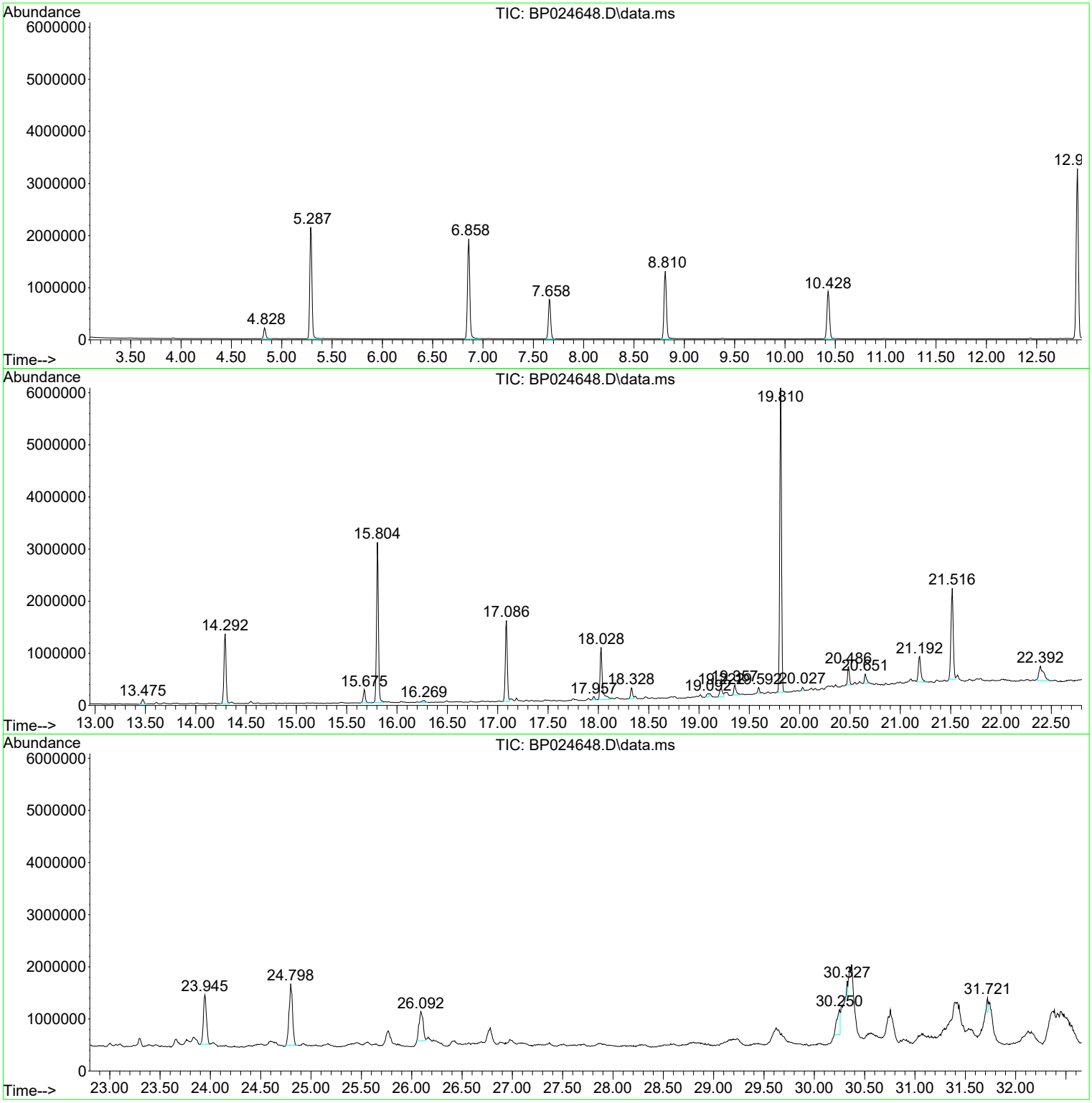
Sample Results: **BP024648.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024648.D
Acq On : 15 May 2025 22:06
Operator : RC/JU
Sample : Q1984-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-24-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024648.D
Acq On : 15 May 2025 22:06
Operator : RC/JU
Sample : Q1984-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-24-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024648.D
Acq On : 15 May 2025 22:06
Operator : RC/JU
Sample : Q1984-07
Misc :
ALS Vial : 16 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-24-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-25-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	68
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024724.D	1	05/19/25 09:45	05/21/25 03:30	PB168052

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.19	U	0.033	0.19	0.25	mg/Kg
91-57-6	2-Methylnaphthalene	0.19	U	0.038	0.19	0.25	mg/Kg
208-96-8	Acenaphthylene	0.19	U	0.042	0.19	0.25	mg/Kg
83-32-9	Acenaphthene	0.19	U	0.031	0.19	0.25	mg/Kg
86-73-7	Fluorene	0.19	U	0.037	0.19	0.25	mg/Kg
85-01-8	Phenanthrene	0.19	U	0.031	0.19	0.25	mg/Kg
120-12-7	Anthracene	0.19	U	0.049	0.19	0.25	mg/Kg
206-44-0	Fluoranthene	0.19	U	0.044	0.19	0.25	mg/Kg
129-00-0	Pyrene	0.19	U	0.053	0.19	0.25	mg/Kg
56-55-3	Benzo(a)anthracene	0.19	U	0.034	0.19	0.25	mg/Kg
218-01-9	Chrysene	0.19	U	0.029	0.19	0.25	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.19	U	0.028	0.19	0.25	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.19	U	0.033	0.19	0.25	mg/Kg
50-32-8	Benzo(a)pyrene	0.19	U	0.043	0.19	0.25	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.19	U	0.043	0.19	0.25	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.19	U	0.040	0.19	0.25	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.19	U	0.038	0.19	0.25	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	44.9		37 - 122		45%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.9		44 - 115		45%	SPK: 100
1718-51-0	Terphenyl-d14	42.8	*	54 - 127		43%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	129000	7.652				
1146-65-2	Naphthalene-d8	540000	10.428				
15067-26-2	Acenaphthene-d10	349000	14.287				
1517-22-2	Phenanthrene-d10	678000	17.075				
1719-03-5	Chrysene-d12	736000	21.504				
1520-96-3	Perylene-d12	907000	24.78				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-25-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-09	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	68
Sample Wt/Vol:	30.08 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024724.D	1	05/19/25 09:45	05/21/25 03:30	PB168052

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972608	Alachlor	N.D					
82-68-8	Quintozine	N.D					

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_P\Data\BP052025\
Data File : BP024724.D
Acq On : 21 May 2025 03:30
Operator : RC/JU
Sample : Q1984-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-25-050725

Quant Time: May 21 03:57:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

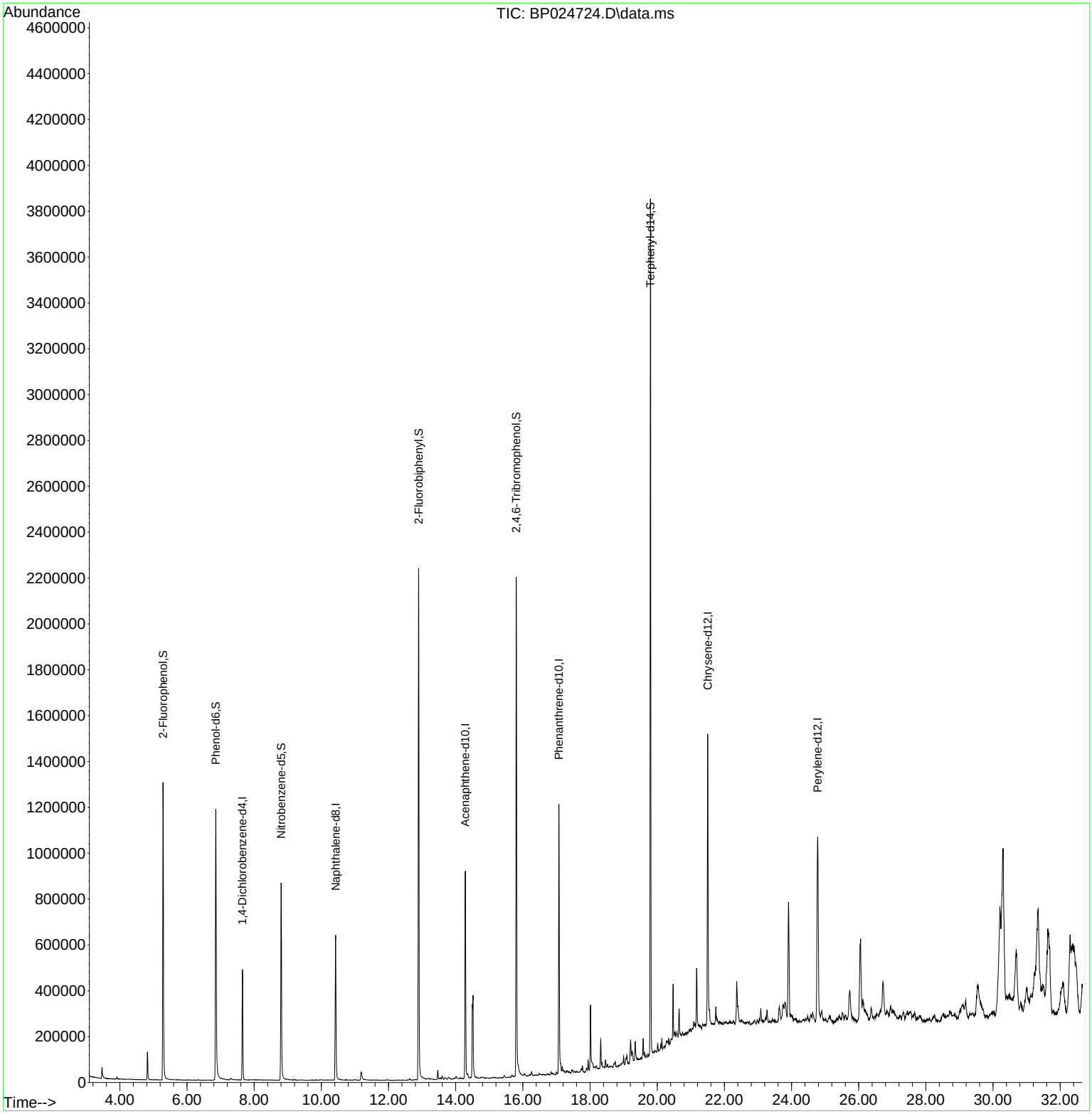
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.652	152	128618	20.000	ng	-0.01
21) Naphthalene-d8	10.428	136	540121	20.000	ng	0.00
39) Acenaphthene-d10	14.287	164	348817	20.000	ng	-0.02
64) Phenanthrene-d10	17.075	188	677955	20.000	ng	-0.02
76) Chrysene-d12	21.504	240	735784	20.000	ng	-0.02
86) Perylene-d12	24.780	264	906701	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	601664	80.010	ng	0.00
7) Phenol-d6	6.858	99	751217	78.273	ng	0.00
23) Nitrobenzene-d5	8.805	82	479958	44.898	ng	0.00
42) 2,4,6-Tribromophenol	15.804	330	515728	87.213	ng	0.00
45) 2-Fluorobiphenyl	12.899	172	1195907	44.917	ng	0.00
79) Terphenyl-d14	19.798	244	1837626	42.825	ng	-0.01
Target Compounds						Qvalue

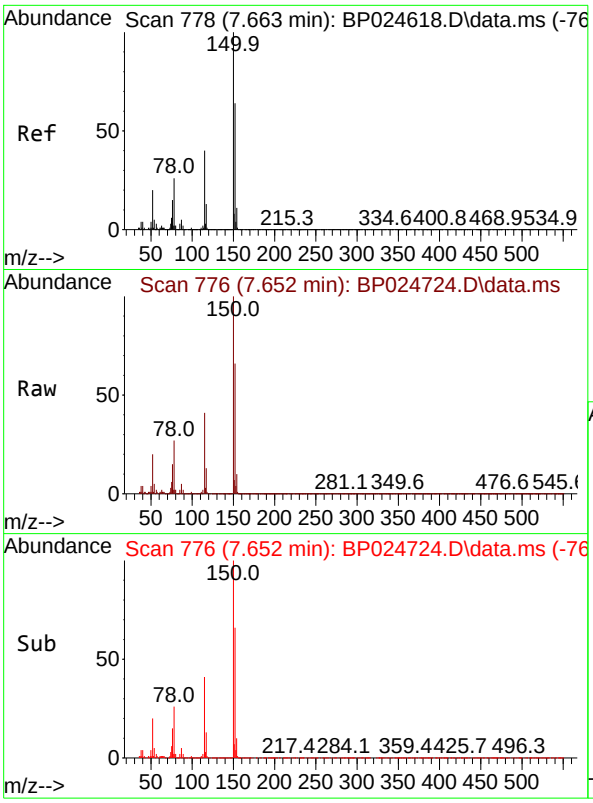
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024724.D
Acq On : 21 May 2025 03:30
Operator : RC/JU
Sample : Q1984-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-25-050725

Quant Time: May 21 03:57:07 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



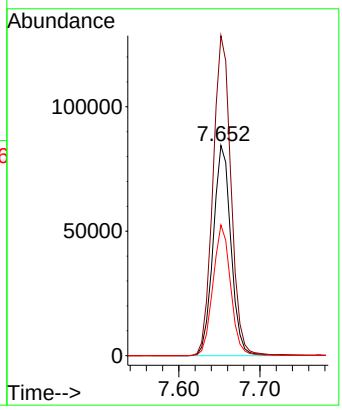


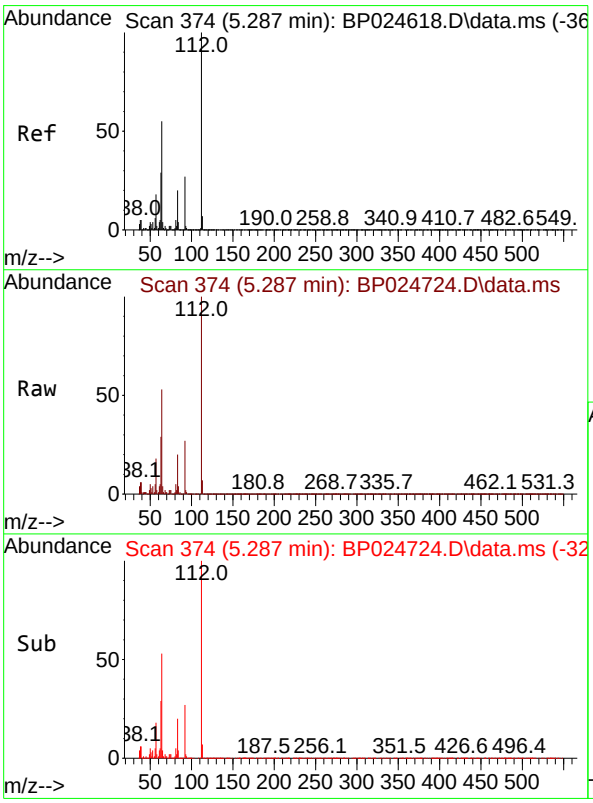
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.652 min Scan# 7
Delta R.T. -0.011 min
Lab File: BP024724.D
Acq: 21 May 2025 03:30

Instrument :
BNA_P
ClientSampleId :
OU4-TS-25-050725

Tgt Ion:152 Resp: 128618

Ion	Ratio	Lower	Upper
152	100		
150	152.3	125.9	188.9
115	62.2	50.1	75.1

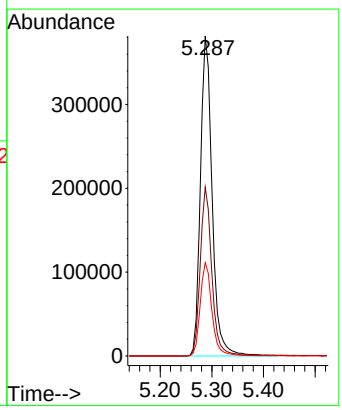


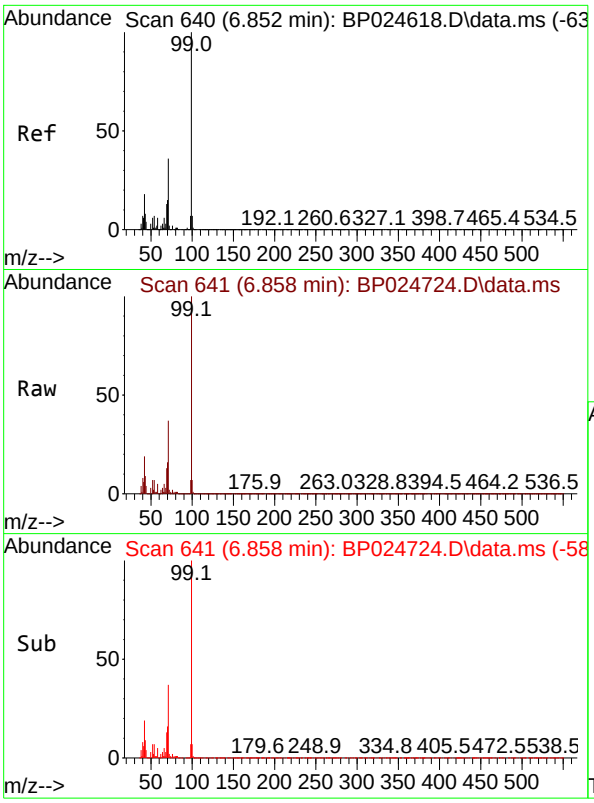


#5
2-Fluorophenol
Concen: 80.010 ng
RT: 5.287 min Scan# 374
Delta R.T. 0.000 min
Lab File: BP024724.D
Acq: 21 May 2025 03:30

Tgt Ion:112 Resp: 601664

Ion	Ratio	Lower	Upper
112	100		
64	52.8	44.1	66.1
63	29.2	23.5	35.3



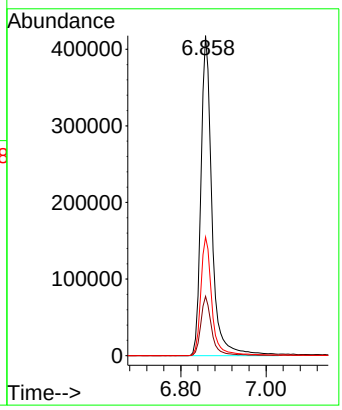


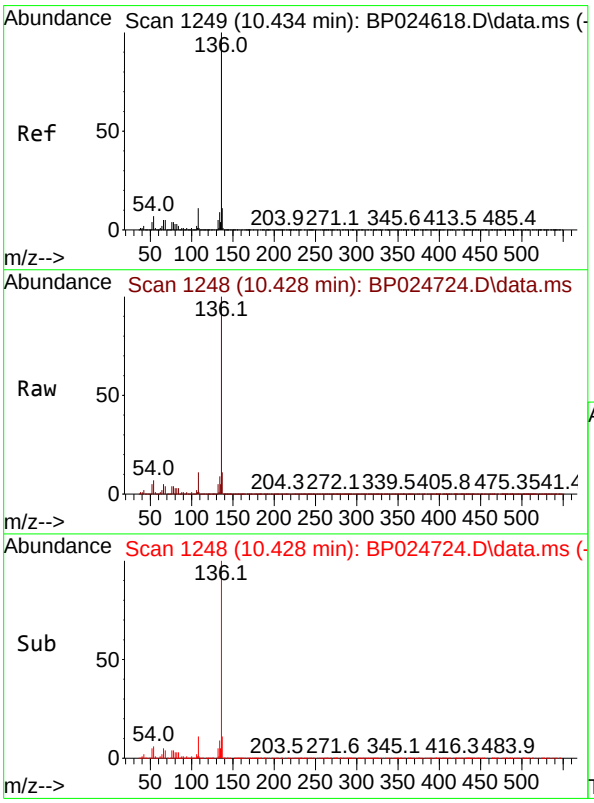
#7
Phenol-d6
Concen: 78.273 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024724.D
Acq: 21 May 2025 03:30

Instrument :
BNA_P
ClientSampleId :
OU4-TS-25-050725

Tgt Ion: 99 Resp: 751217

Ion	Ratio	Lower	Upper
99	100		
42	18.5	14.4	21.6
71	37.1	29.2	43.8

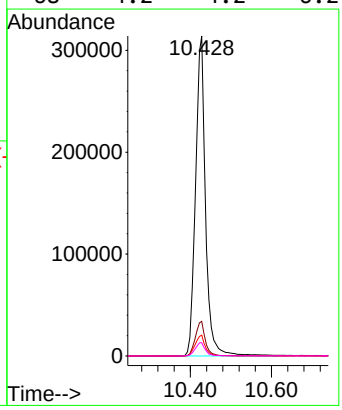


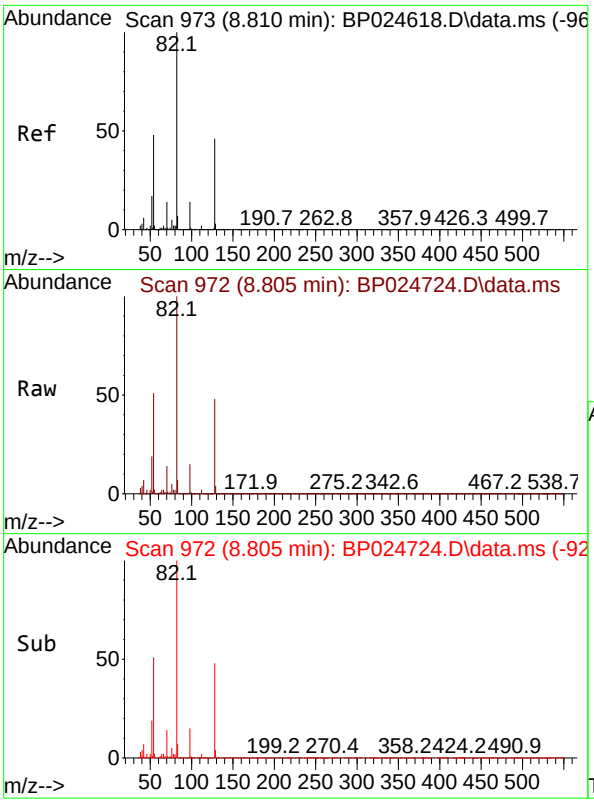


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.428 min Scan# 1248
Delta R.T. -0.006 min
Lab File: BP024724.D
Acq: 21 May 2025 03:30

Tgt Ion:136 Resp: 540121

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	6.5	5.5	8.3
68	4.2	4.2	6.2



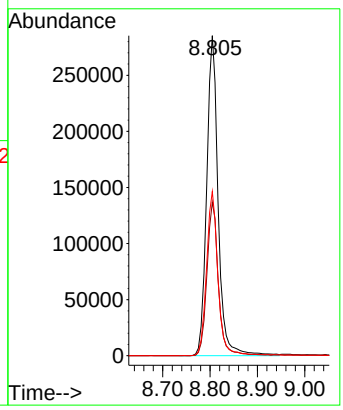


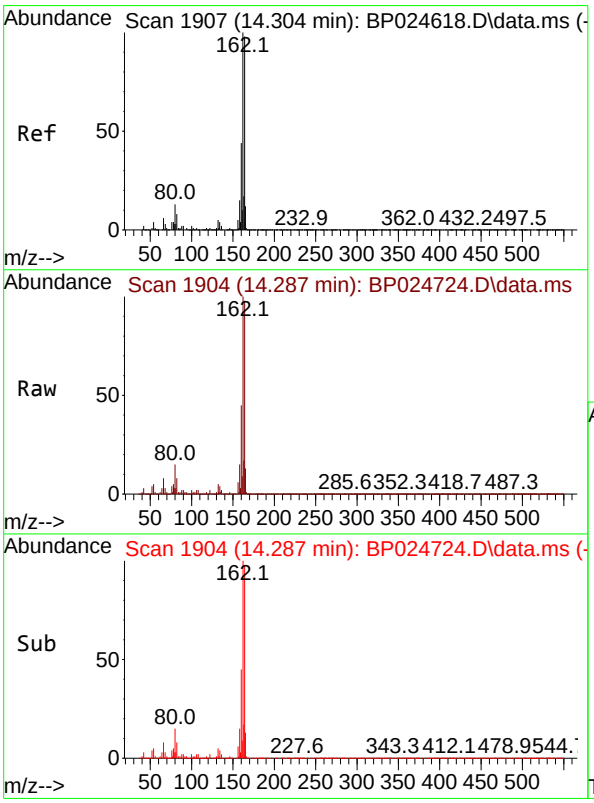
#23
Nitrobenzene-d5
Concen: 44.898 ng
RT: 8.805 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024724.D
Acq: 21 May 2025 03:30

Instrument :
BNA_P
ClientSampleId :
OU4-TS-25-050725

Tgt Ion: 82 Resp: 479958

Ion	Ratio	Lower	Upper
82	100		
128	48.0	37.0	55.4
54	51.3	38.7	58.1

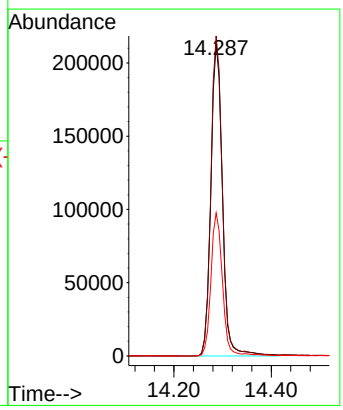


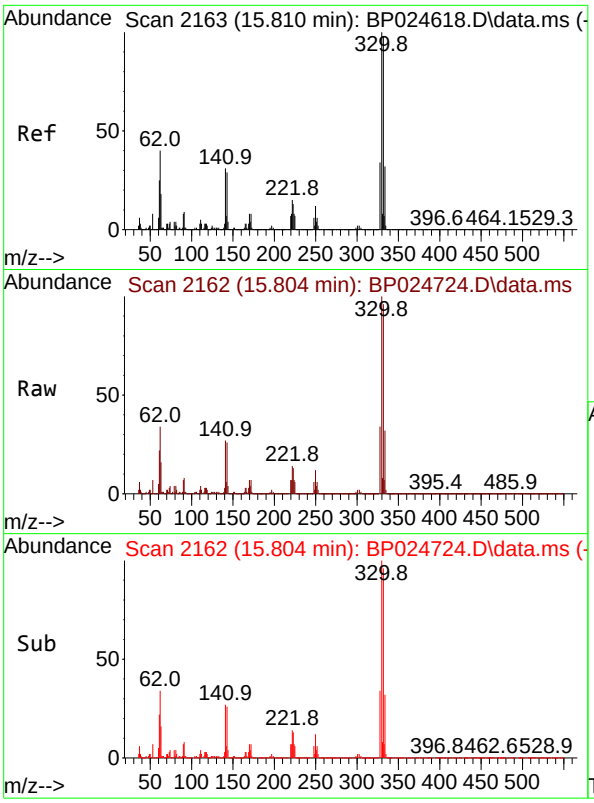


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.287 min Scan# 1904
Delta R.T. -0.018 min
Lab File: BP024724.D
Acq: 21 May 2025 03:30

Tgt Ion:164 Resp: 348817

Ion	Ratio	Lower	Upper
164	100		
162	102.6	81.8	122.6
160	45.8	36.3	54.5



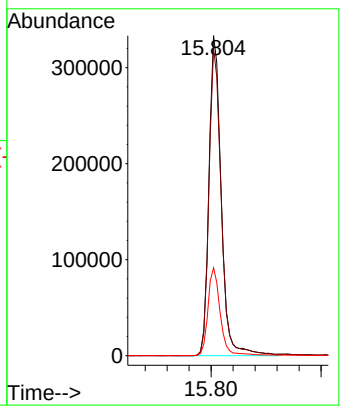


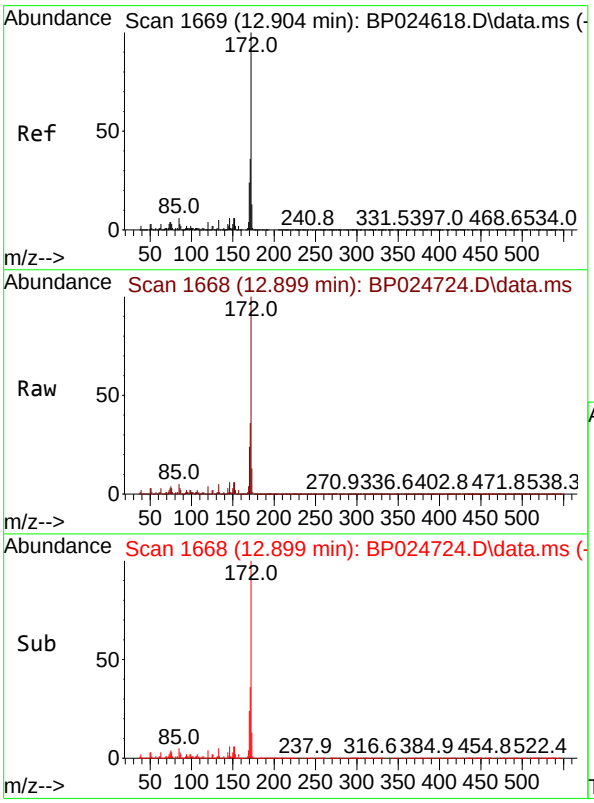
#42
2,4,6-Tribromophenol
Concen: 87.213 ng
RT: 15.804 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024724.D
Acq: 21 May 2025 03:30

Instrument :
BNA_P
ClientSampleId :
OU4-TS-25-050725

Tgt Ion:330 Resp: 515728

Ion	Ratio	Lower	Upper
330	100		
332	97.6	78.2	117.4
141	27.5	24.3	36.5

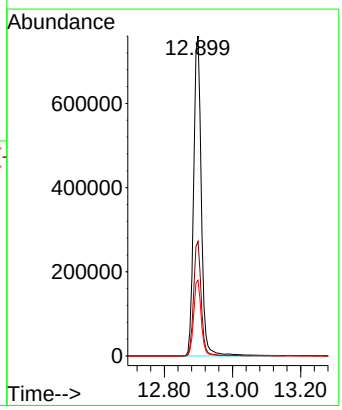


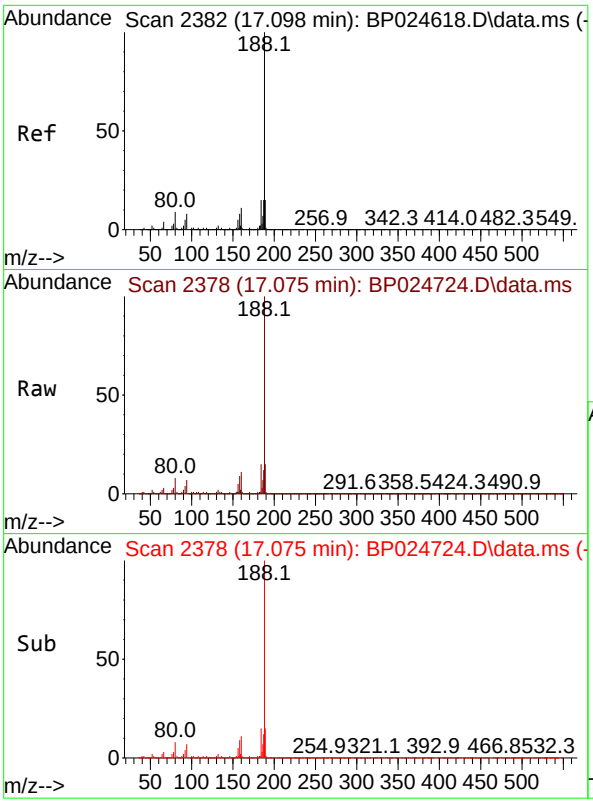


#45
2-Fluorobiphenyl
Concen: 44.917 ng
RT: 12.899 min Scan# 1668
Delta R.T. -0.006 min
Lab File: BP024724.D
Acq: 21 May 2025 03:30

Tgt Ion:172 Resp: 1195907

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.8	43.2
170	23.7	18.8	28.2



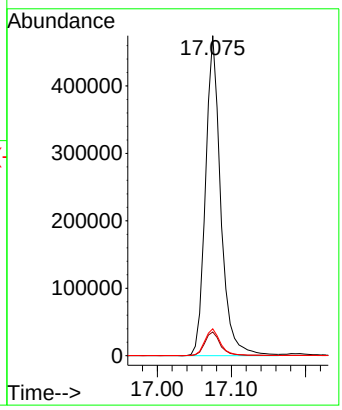


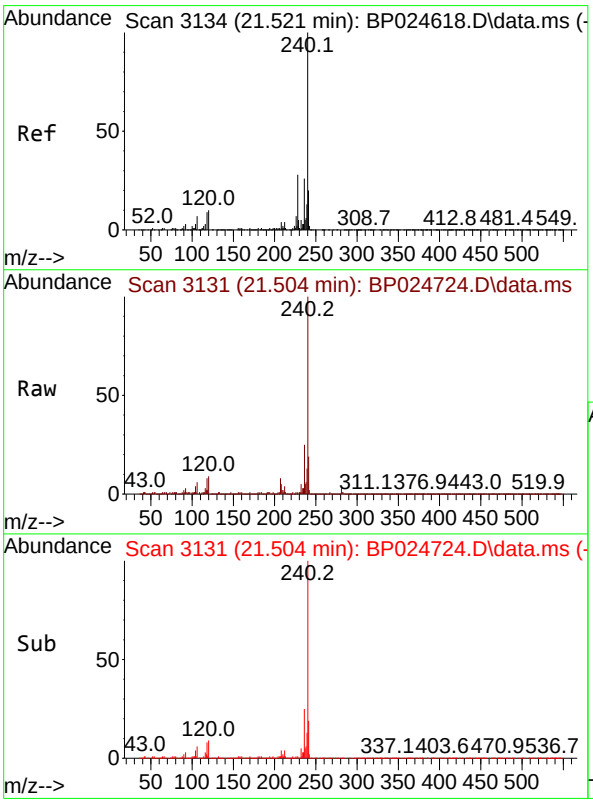
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.075 min Scan# 2
Delta R.T. -0.023 min
Lab File: BP024724.D
Acq: 21 May 2025 03:30

Instrument :
BNA_P
ClientSampleId :
OU4-TS-25-050725

Tgt Ion:188 Resp: 677955

Ion	Ratio	Lower	Upper
188	100		
94	7.4	6.5	9.7
80	8.4	7.3	10.9

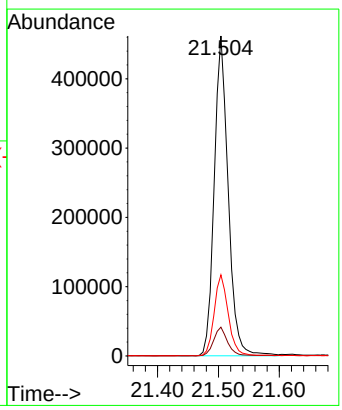


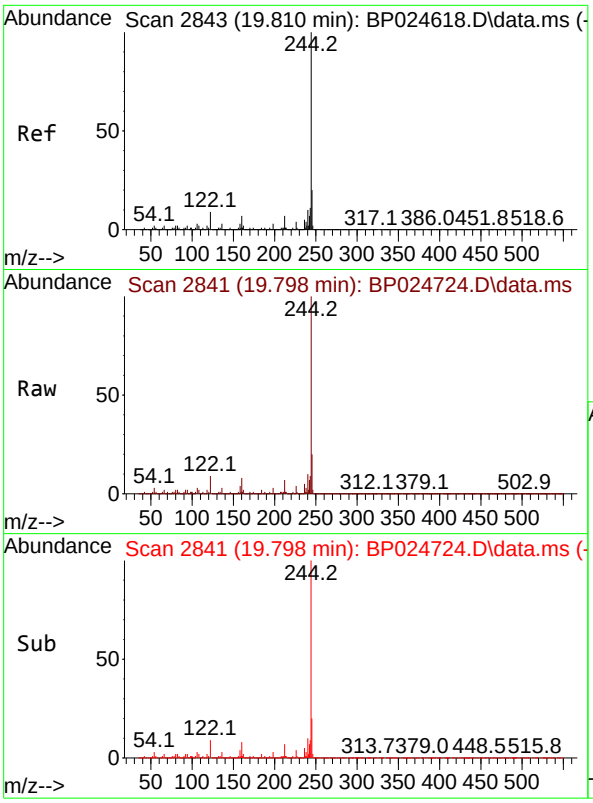


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.504 min Scan# 3131
Delta R.T. -0.017 min
Lab File: BP024724.D
Acq: 21 May 2025 03:30

Tgt Ion:240 Resp: 735784

Ion	Ratio	Lower	Upper
240	100		
120	9.0	7.8	11.6
236	25.3	20.6	31.0



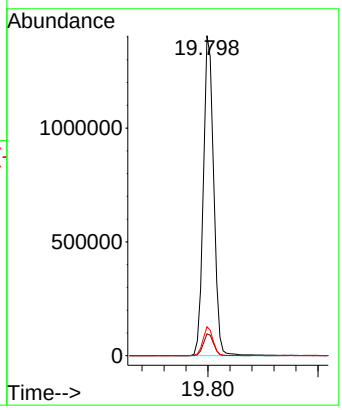


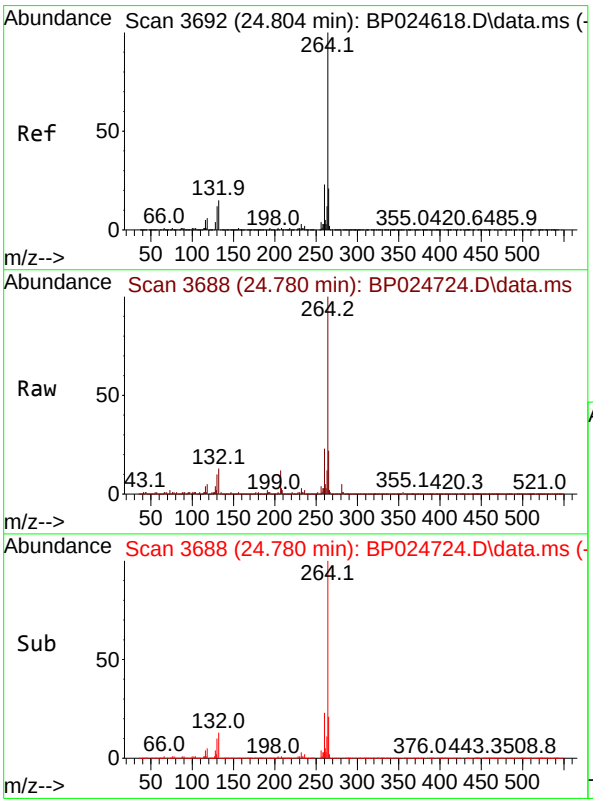
#79
Terphenyl-d14
Concen: 42.825 ng
RT: 19.798 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024724.D
Acq: 21 May 2025 03:30

Instrument :
BNA_P
ClientSampleId :
OU4-TS-25-050725

Tgt Ion:244 Resp: 1837626

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.5	8.3
122	9.1	7.4	11.0

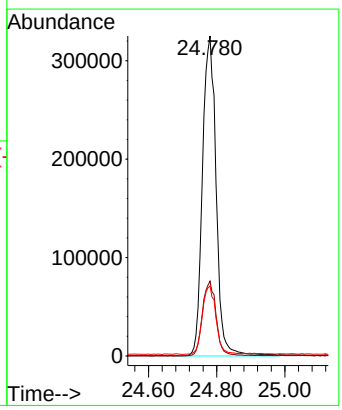




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.780 min Scan# 3688
Delta R.T. -0.023 min
Lab File: BP024724.D
Acq: 21 May 2025 03:30

Tgt Ion:264 Resp: 906701

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.7	28.1
265	21.9	17.0	25.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024724.D
Acq On : 21 May 2025 03:30
Operator : RC/JU
Sample : Q1984-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-25-050725

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024724.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	3.470	61	65	80	rBV	47786	81560	1.67%	0.253%
2	4.823	289	295	307	rBV	121770	177465	3.64%	0.550%
3	5.287	368	374	390	rBV	1297142	2030213	41.64%	6.289%
4	6.858	634	641	668	rBV	1181383	2139338	43.87%	6.627%
5	7.652	768	776	786	rBV	483084	744535	15.27%	2.306%
6	8.805	965	972	988	rBV	859837	1446296	29.66%	4.480%
7	10.428	1237	1248	1263	rBV	632728	1089032	22.33%	3.374%
8	11.187	1370	1377	1391	rBV	35838	103743	2.13%	0.321%
9	12.899	1660	1668	1683	rBV	2229182	3473964	71.24%	10.762%
10	13.469	1759	1765	1769	rBV3	42519	63998	1.31%	0.198%
11	14.287	1896	1904	1912	rBV	905674	1466166	30.07%	4.542%
12	14.516	1935	1943	1956	rBV	358459	806455	16.54%	2.498%
13	15.804	2156	2162	2183	rBV	2177385	3409284	69.92%	10.561%
14	17.075	2372	2378	2391	rBV	1175176	1756541	36.02%	5.441%
15	17.945	2522	2526	2531	rVB	42744	57205	1.17%	0.177%
16	18.016	2532	2538	2552	rBV2	284599	498788	10.23%	1.545%
17	18.322	2585	2590	2593	rBV2	123289	174952	3.59%	0.542%
18	18.457	2610	2613	2620	rBV6	32400	51222	1.05%	0.159%
19	19.210	2734	2741	2745	rBV	105869	217733	4.47%	0.674%
20	19.345	2760	2764	2773	rBV3	80936	129915	2.66%	0.402%
21	19.581	2801	2804	2808	rBV	76923	96125	1.97%	0.298%
22	19.798	2836	2841	2852	rBV	3734278	4876211	100.00%	15.106%
23	20.139	2896	2899	2903	rVB	49337	56582	1.16%	0.175%
24	20.475	2952	2956	2960	rBV2	236661	277404	5.69%	0.859%
25	20.651	2982	2986	2991	rBV2	118412	174247	3.57%	0.540%
26	21.175	3071	3075	3083	rVB	250350	369141	7.57%	1.144%
27	21.504	3125	3131	3138	rBV	1264109	2080676	42.67%	6.446%
28	22.369	3274	3278	3283	rBV	164262	296043	6.07%	0.917%
29	23.910	3534	3540	3548	rVB	498433	1070594	21.96%	3.316%
30	24.780	3680	3688	3698	rBV	777752	2060067	42.25%	6.382%
31	26.057	3896	3905	3912	rBV3	337240	1005492	20.62%	3.115%

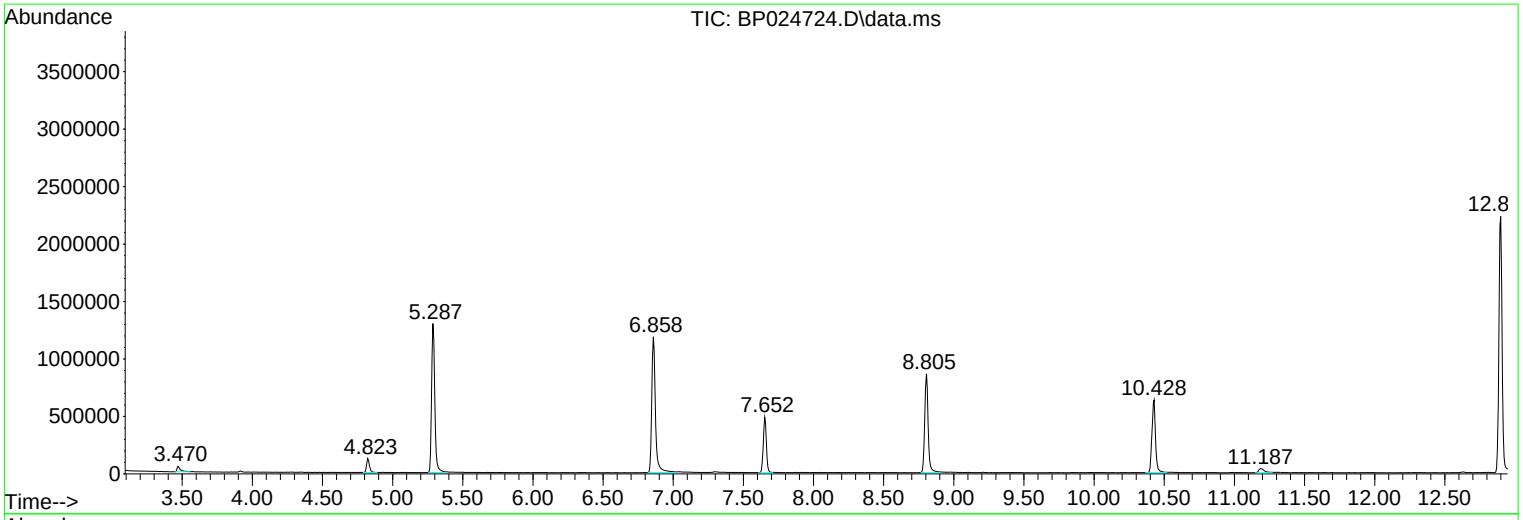
Sum of corrected areas: 32280987

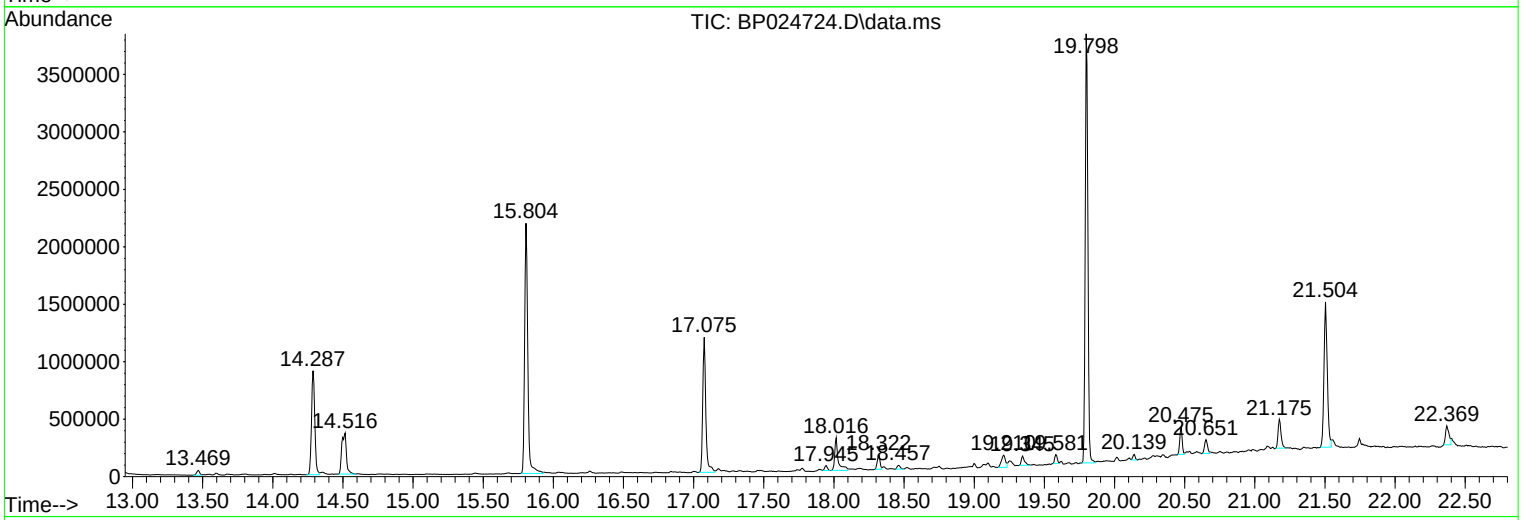
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024724.D
Acq On : 21 May 2025 03:30
Operator : RC/JU
Sample : Q1984-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

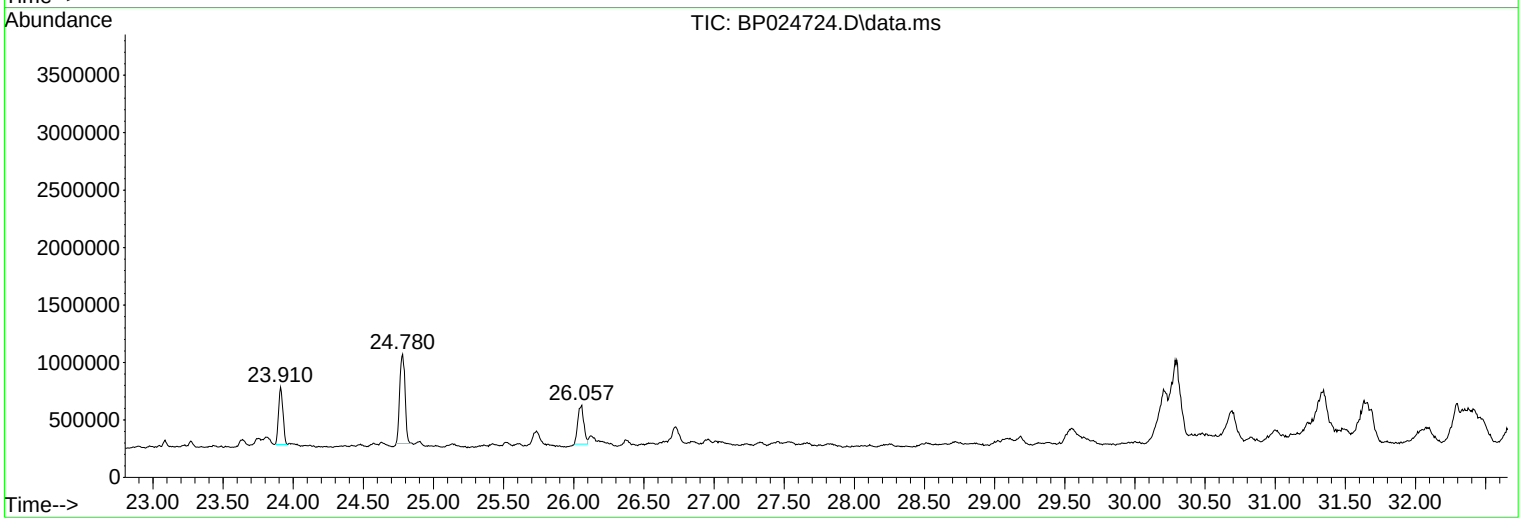
Instrument :
BNA_P
ClientSampleId :
OU4-TS-25-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024724.D
Acq On : 21 May 2025 03:30
Operator : RC/JU
Sample : Q1984-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-25-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected
****

Tentatively Identified Compound (LSC) summary

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024724.D
Acq On : 21 May 2025 03:30
Operator : RC/JU
Sample : Q1984-09
Misc :
ALS Vial : 25 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-25-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-26-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-11	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	60.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024644.D	1	05/13/25 09:05	05/15/25 19:23	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.22	U	0.038	0.22	0.28	mg/Kg
91-57-6	2-Methylnaphthalene	0.22	U	0.043	0.22	0.28	mg/Kg
208-96-8	Acenaphthylene	0.22	U	0.048	0.22	0.28	mg/Kg
83-32-9	Acenaphthene	0.22	U	0.035	0.22	0.28	mg/Kg
86-73-7	Fluorene	0.22	U	0.042	0.22	0.28	mg/Kg
85-01-8	Phenanthrene	0.22	U	0.035	0.22	0.28	mg/Kg
120-12-7	Anthracene	0.22	U	0.055	0.22	0.28	mg/Kg
206-44-0	Fluoranthene	0.22	U	0.050	0.22	0.28	mg/Kg
129-00-0	Pyrene	0.22	U	0.060	0.22	0.28	mg/Kg
56-55-3	Benzo(a)anthracene	0.22	U	0.038	0.22	0.28	mg/Kg
218-01-9	Chrysene	0.22	U	0.033	0.22	0.28	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.22	U	0.032	0.22	0.28	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.22	U	0.037	0.22	0.28	mg/Kg
50-32-8	Benzo(a)pyrene	0.22	U	0.049	0.22	0.28	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.22	U	0.048	0.22	0.28	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.22	U	0.046	0.22	0.28	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.22	U	0.043	0.22	0.28	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	45.7		37 - 122		46%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.9		44 - 115		45%	SPK: 100
1718-51-0	Terphenyl-d14	39.8	*	54 - 127		40%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	176000	7.658				
1146-65-2	Naphthalene-d8	742000	10.428				
15067-26-2	Acenaphthene-d10	437000	14.293				
1517-22-2	Phenanthrene-d10	826000	17.087				
1719-03-5	Chrysene-d12	944000	21.516				
1520-96-3	Perylene-d12	1110000	24.792				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-26-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-11	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	60.1
Sample Wt/Vol:	30.04 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024644.D	1	05/13/25 09:05	05/15/25 19:23	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972608	Alachlor	N.D					
82-68-8	Quintozine	N.D					

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_P\Data\BP051525\
Data File : BP024644.D
Acq On : 15 May 2025 19:23
Operator : RC/JU
Sample : Q1984-11
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-26-050725

Quant Time: May 16 01:17:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

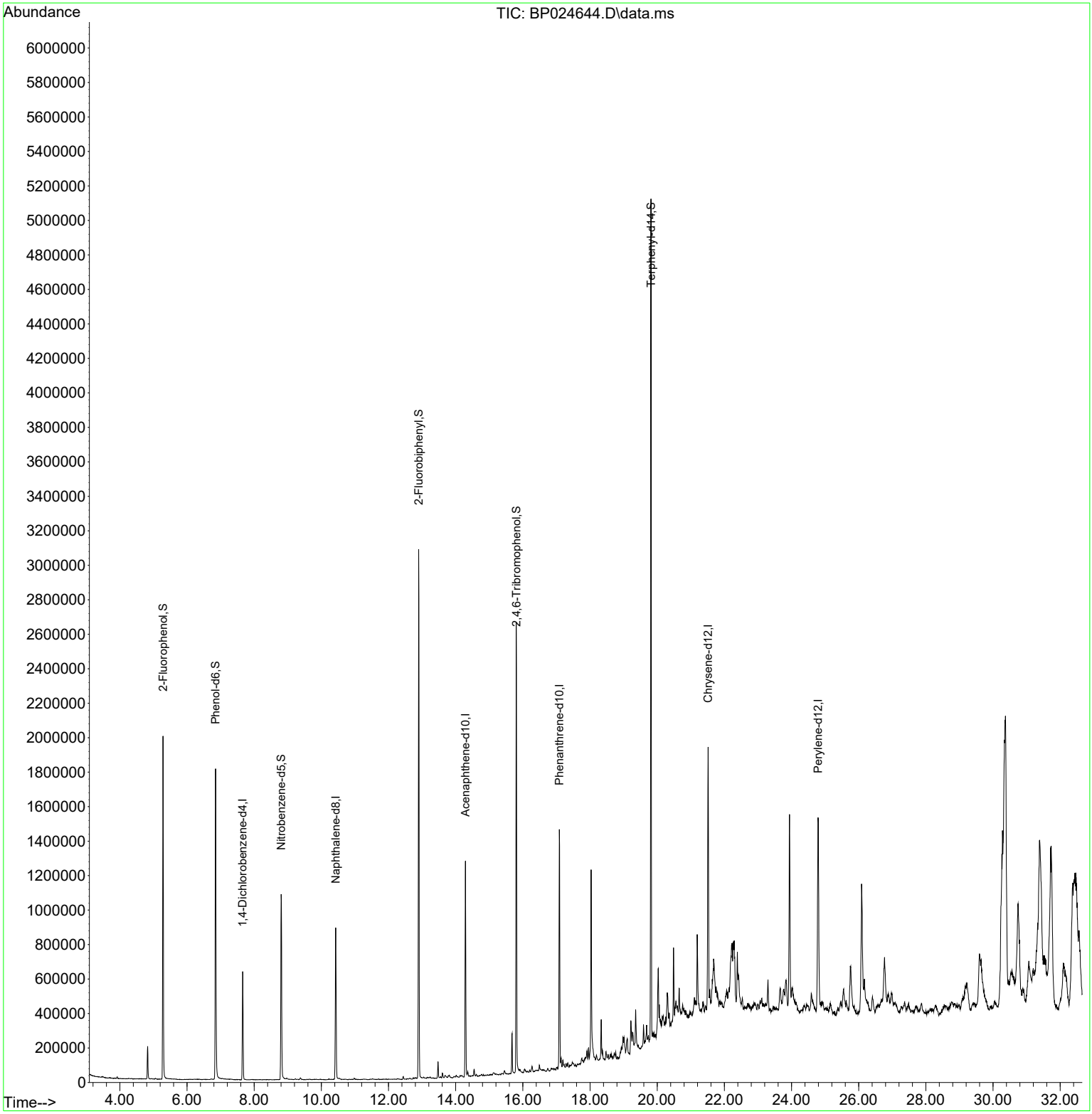
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	175989	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	742245	20.000	ng	0.00
39) Acenaphthene-d10	14.293	164	436986	20.000	ng	-0.01
64) Phenanthrene-d10	17.087	188	825732	20.000	ng	-0.01
76) Chrysene-d12	21.516	240	944347	20.000	ng	0.00
86) Perylene-d12	24.792	264	1114381	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	851948	82.798	ng	0.00
7) Phenol-d6	6.852	99	1079702	82.218	ng	0.00
23) Nitrobenzene-d5	8.805	82	671414	45.705	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	543094	73.310	ng	0.00
45) 2-Fluorobiphenyl	12.899	172	1497391	44.893	ng	0.00
79) Terphenyl-d14	19.816	244	2192577	39.812	ng	0.00
Target Compounds						Qvalue

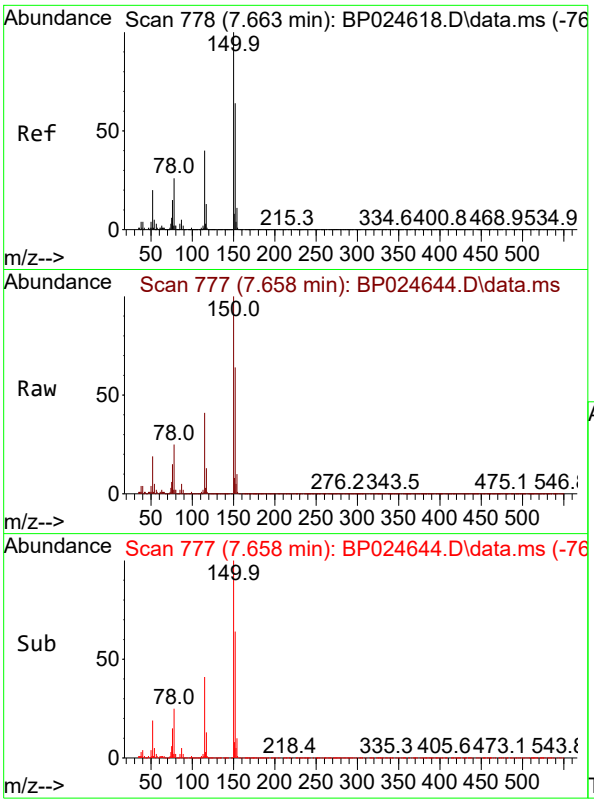
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024644.D
Acq On : 15 May 2025 19:23
Operator : RC/JU
Sample : Q1984-11
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-26-050725

Quant Time: May 16 01:17:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



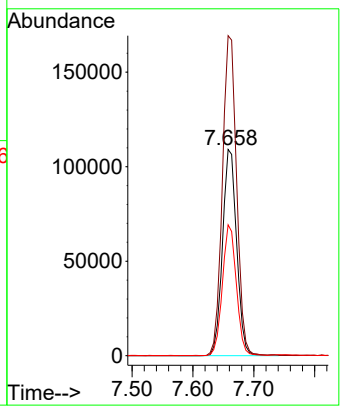


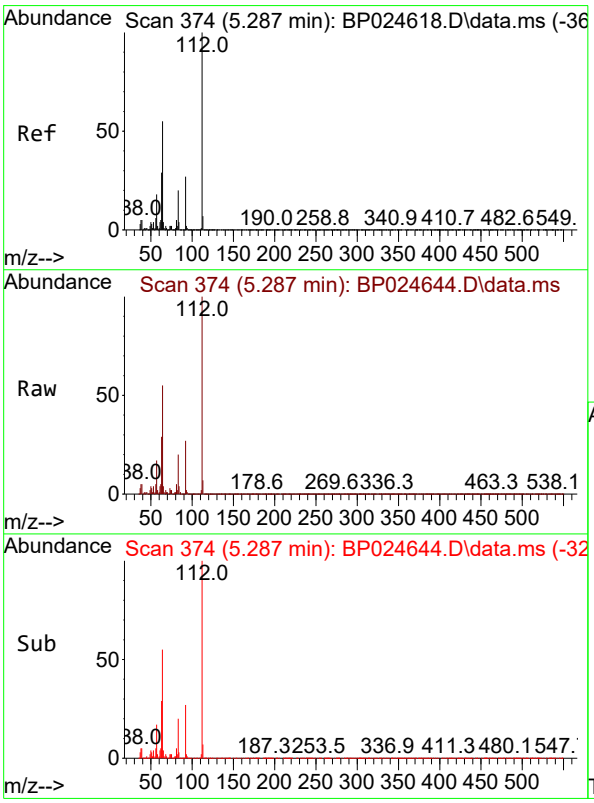
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.658 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024644.D
Acq: 15 May 2025 19:23

Instrument :
BNA_P
ClientSampleId :
OU4-TS-26-050725

Tgt Ion:152 Resp: 175989

Ion	Ratio	Lower	Upper
152	100		
150	155.2	125.9	188.9
115	63.5	50.1	75.1

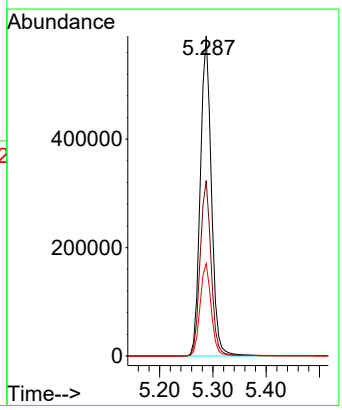


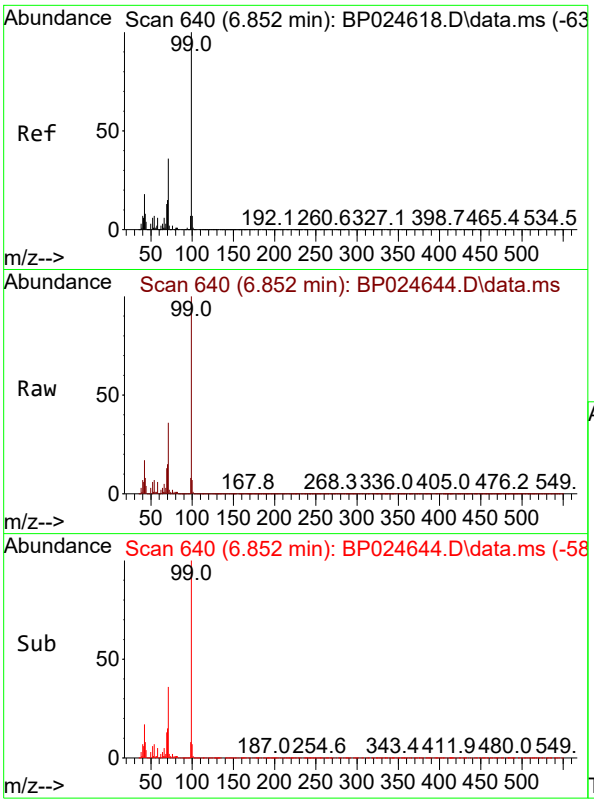


#5
2-Fluorophenol
Concen: 82.798 ng
RT: 5.287 min Scan# 374
Delta R.T. 0.000 min
Lab File: BP024644.D
Acq: 15 May 2025 19:23

Tgt Ion:112 Resp: 851948

Ion	Ratio	Lower	Upper
112	100		
64	54.8	44.1	66.1
63	28.9	23.5	35.3



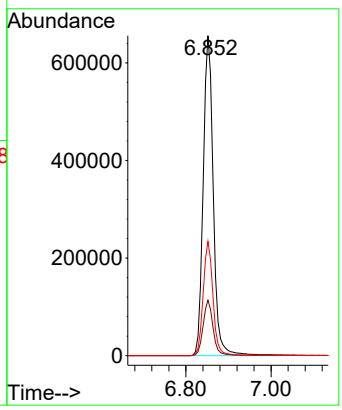


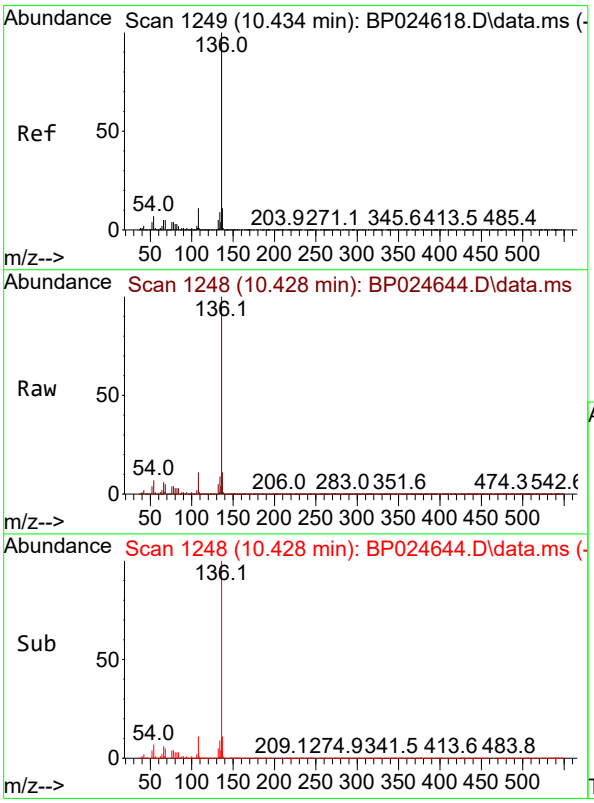
#7
Phenol-d6
Concen: 82.218 ng
RT: 6.852 min Scan# 64
Delta R.T. 0.000 min
Lab File: BP024644.D
Acq: 15 May 2025 19:23

Instrument :
BNA_P
ClientSampleId :
OU4-TS-26-050725

Tgt Ion: 99 Resp: 1079702

Ion	Ratio	Lower	Upper
99	100		
42	17.3	14.4	21.6
71	35.7	29.2	43.8

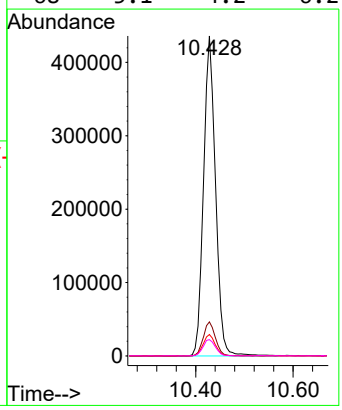


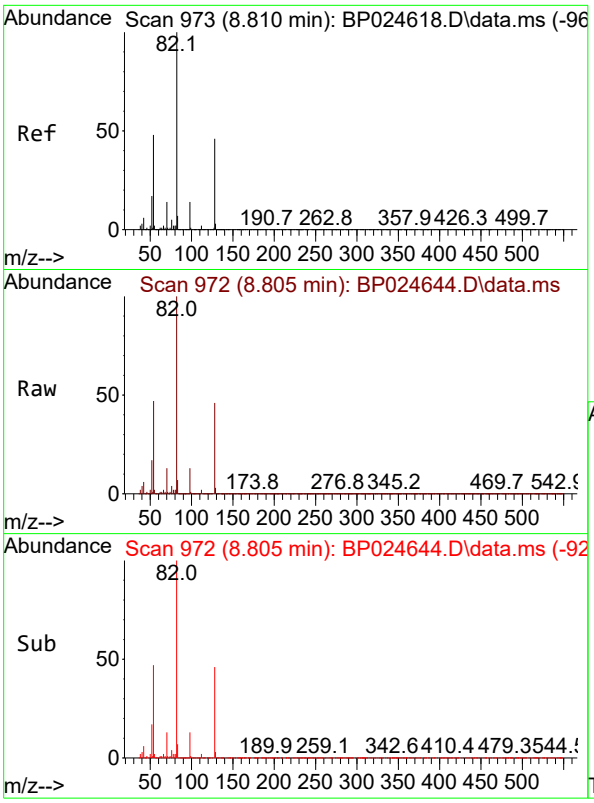


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.428 min Scan# 1248
Delta R.T. -0.006 min
Lab File: BP024644.D
Acq: 15 May 2025 19:23

Tgt Ion:136 Resp: 742245

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	6.7	5.5	8.3
68	5.1	4.2	6.2



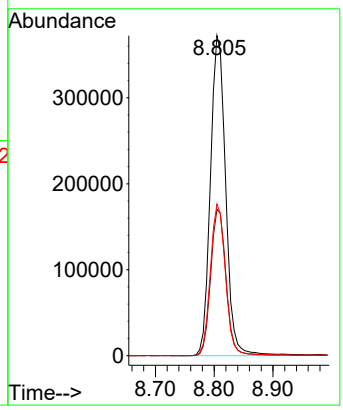


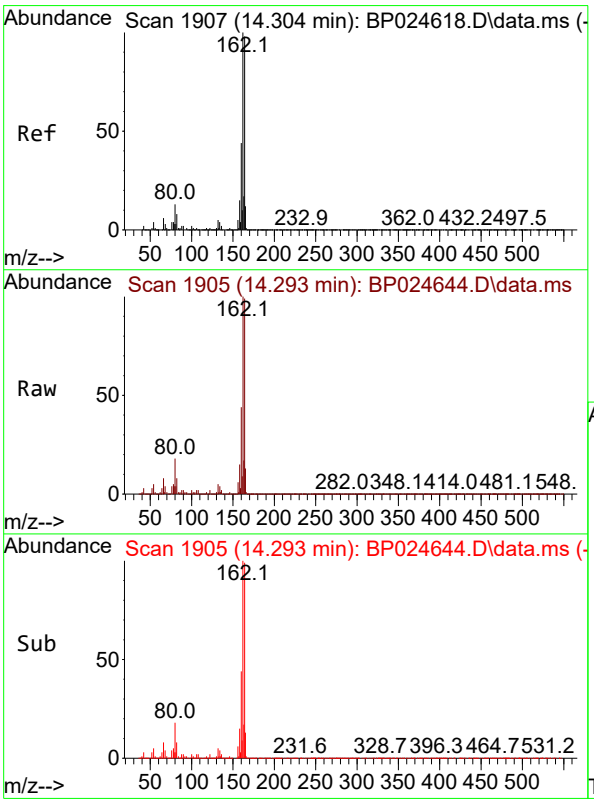
#23
Nitrobenzene-d5
Concen: 45.705 ng
RT: 8.805 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024644.D
Acq: 15 May 2025 19:23

Instrument :
BNA_P
ClientSampleId :
OU4-TS-26-050725

Tgt Ion: 82 Resp: 671414

Ion	Ratio	Lower	Upper
82	100		
128	45.8	37.0	55.4
54	47.4	38.7	58.1

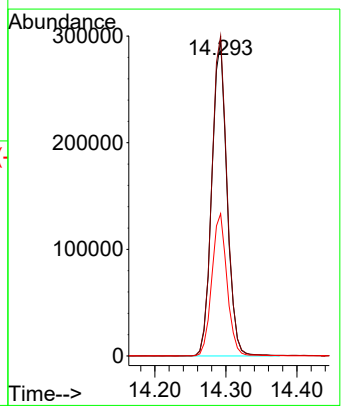


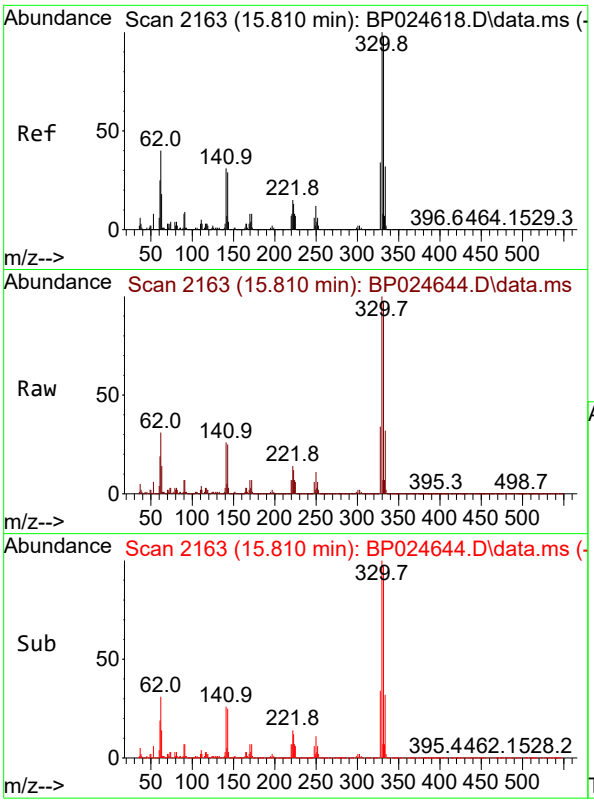


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.293 min Scan# 1905
Delta R.T. -0.012 min
Lab File: BP024644.D
Acq: 15 May 2025 19:23

Tgt Ion:164 Resp: 436986

Ion	Ratio	Lower	Upper
164	100		
162	101.5	81.8	122.6
160	45.1	36.3	54.5



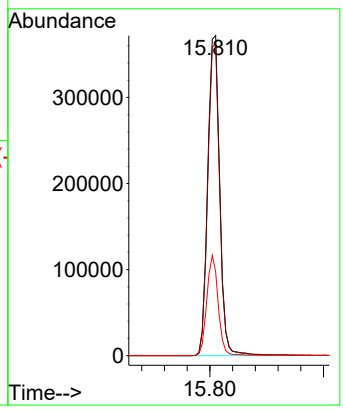


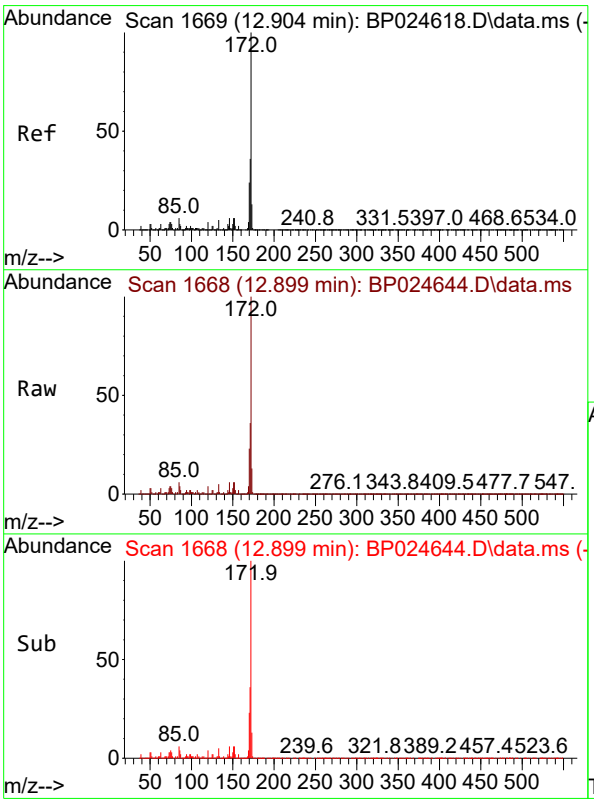
#42
2,4,6-Tribromophenol
Concen: 73.310 ng
RT: 15.810 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024644.D
Acq: 15 May 2025 19:23

Instrument :
BNA_P
ClientSampleId :
OU4-TS-26-050725

Tgt Ion:330 Resp: 543094

Ion	Ratio	Lower	Upper
330	100		
332	97.5	78.2	117.4
141	29.5	24.3	36.5

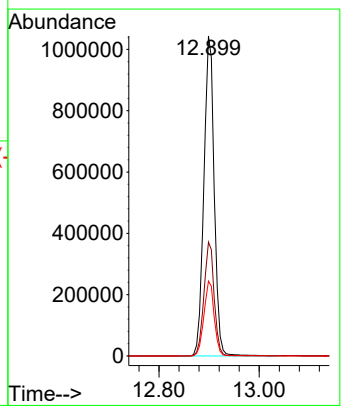


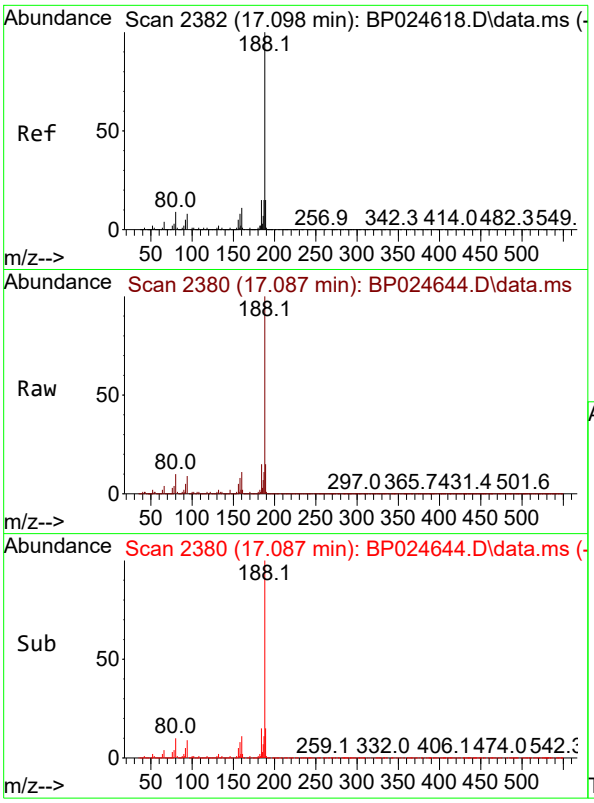


#45
2-Fluorobiphenyl
Concen: 44.893 ng
RT: 12.899 min Scan# 1668
Delta R.T. -0.006 min
Lab File: BP024644.D
Acq: 15 May 2025 19:23

Tgt Ion:172 Resp: 1497391

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.8	43.2
170	23.4	18.8	28.2



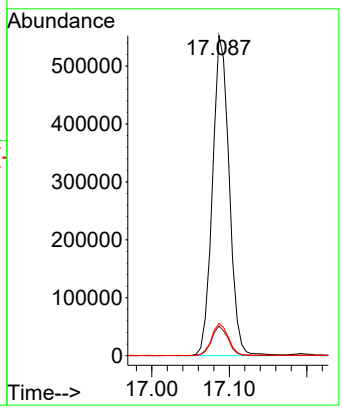


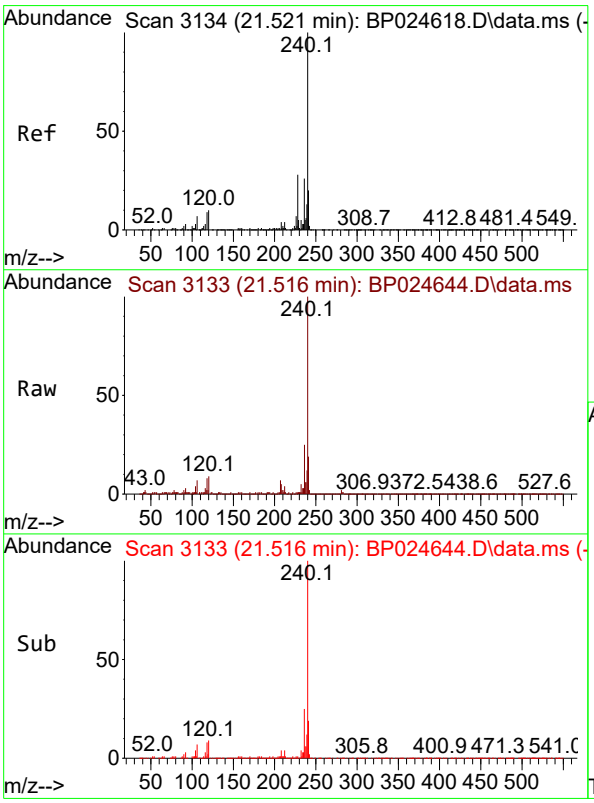
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.087 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024644.D
Acq: 15 May 2025 19:23

Instrument :
BNA_P
ClientSampleId :
OU4-TS-26-050725

Tgt Ion:188 Resp: 825732

Ion	Ratio	Lower	Upper
188	100		
94	9.3	6.5	9.7
80	10.0	7.3	10.9

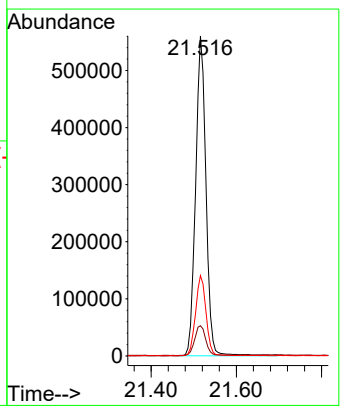


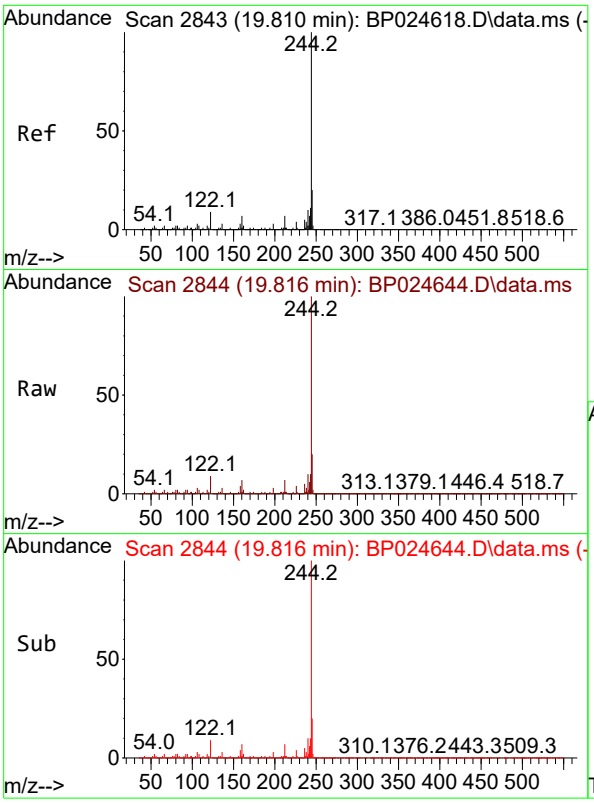


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.516 min Scan# 3133
Delta R.T. -0.006 min
Lab File: BP024644.D
Acq: 15 May 2025 19:23

Tgt Ion:240 Resp: 944347

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.8	11.6
236	25.1	20.6	31.0



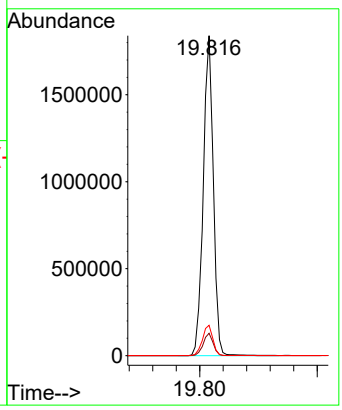


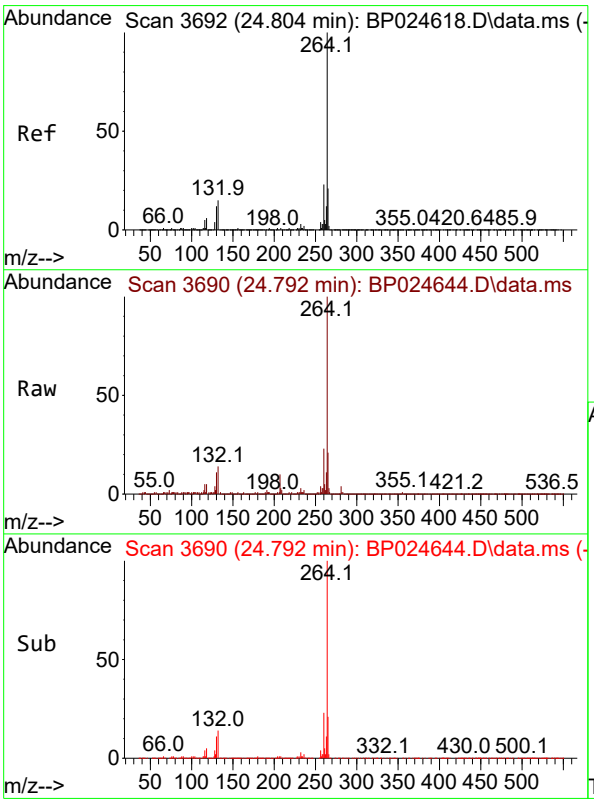
#79
Terphenyl-d14
Concen: 39.812 ng
RT: 19.816 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024644.D
Acq: 15 May 2025 19:23

Instrument :
BNA_P
ClientSampleId :
OU4-TS-26-050725

Tgt Ion:244 Resp: 2192577

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	9.5	7.4	11.0

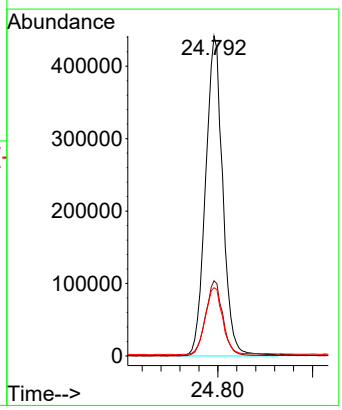




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.792 min Scan# 3690
Delta R.T. -0.012 min
Lab File: BP024644.D
Acq: 15 May 2025 19:23

Tgt Ion:264 Resp: 1114381

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.7	28.1
265	21.3	17.0	25.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024644.D
Acq On : 15 May 2025 19:23
Operator : RC/JU
Sample : Q1984-11
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-26-050725

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024644.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.828	290	296	306	rBV	189012	266011	4.55%	0.552%
2	5.287	367	374	392	rBV	1990556	2882360	49.34%	5.979%
3	6.852	631	640	659	rBV	1801336	2990938	51.20%	6.204%
4	7.658	770	777	787	rBV	628597	1019032	17.44%	2.114%
5	8.805	965	972	988	rBV	1075080	1955357	33.47%	4.056%
6	10.428	1240	1248	1263	rBV	878688	1489416	25.50%	3.090%
7	12.899	1660	1668	1683	rBV	3068446	4368214	74.78%	9.061%
8	13.475	1759	1766	1774	rBV	96983	147615	2.53%	0.306%
9	14.293	1897	1905	1912	rBV	1253729	1886994	32.30%	3.914%
10	14.551	1944	1949	1955	rVB4	39391	61644	1.06%	0.128%
11	15.681	2135	2141	2152	rBV	233074	331186	5.67%	0.687%
12	15.804	2156	2162	2175	rBV	2611675	3686682	63.11%	7.647%
13	16.275	2235	2242	2250	rVB8	32464	70966	1.21%	0.147%
14	17.087	2374	2380	2386	rBV2	1387869	2097485	35.91%	4.351%
15	17.140	2386	2389	2394	rVB2	51417	63928	1.09%	0.133%
16	17.192	2394	2398	2402	rBV2	39299	60770	1.04%	0.126%
17	17.957	2525	2528	2532	rVB2	63277	72386	1.24%	0.150%
18	18.034	2532	2541	2556	rBV	1095273	1834572	31.41%	3.806%
19	18.334	2587	2592	2596	rBV2	227009	318732	5.46%	0.661%
20	18.475	2612	2616	2622	rBV4	46949	92886	1.59%	0.193%
21	18.981	2700	2702	2705	rBV4	49347	60901	1.04%	0.126%
22	19.110	2718	2724	2730	rVB5	84764	199341	3.41%	0.414%
23	19.216	2737	2742	2748	rBV	190664	417860	7.15%	0.867%
24	19.263	2748	2750	2758	rVB5	82353	180434	3.09%	0.374%
25	19.357	2763	2766	2777	rVB2	220253	399273	6.84%	0.828%
26	19.592	2803	2806	2810	rVB	109346	139438	2.39%	0.289%
27	19.816	2838	2844	2850	rBV	4876334	5841428	100.00%	12.117%
28	20.033	2875	2881	2885	rBV2	322738	584427	10.00%	1.212%
29	20.063	2885	2886	2890	rVB2	98185	59734	1.02%	0.124%
30	20.298	2921	2926	2933	rBV4	173371	415182	7.11%	0.861%
31	20.486	2954	2958	2963	rBV2	407897	520277	8.91%	1.079%
32	20.651	2983	2986	2994	rVB	143046	208840	3.58%	0.433%
33	21.192	3074	3078	3086	rBV	407989	632168	10.82%	1.311%
34	21.516	3127	3133	3139	rBV2	1489056	2578383	44.14%	5.348%
35	22.386	3277	3281	3284	rBV	269459	386012	6.61%	0.801%
36	23.939	3539	3545	3553	rBV	1078339	2044623	35.00%	4.241%

Sample Results: **BP024644.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024644.D
Acq On : 15 May 2025 19:23
Operator : RC/JU
Sample : Q1984-11
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-26-050725

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	24.792	3682	3690	3700	rBV	1100389	2740551	46.92%	5.685%
38	25.751	3851	3853	3866	rVB2	233817	611209	10.46%	1.268%
39	26.086	3904	3910	3920	rBV	631930	1494764	25.59%	3.101%
40	30.262	4612	4620	4621	rBV	669402	1322182	22.63%	2.743%
41	30.280	4621	4623	4625	rVV2	242417	279350	4.78%	0.579%
42	31.709	4864	4866	4867	rBV	283863	183577	3.14%	0.381%
43	32.374	4970	4979	4981	rBV4	457803	1210868	20.73%	2.512%

Sum of corrected areas: 48207996

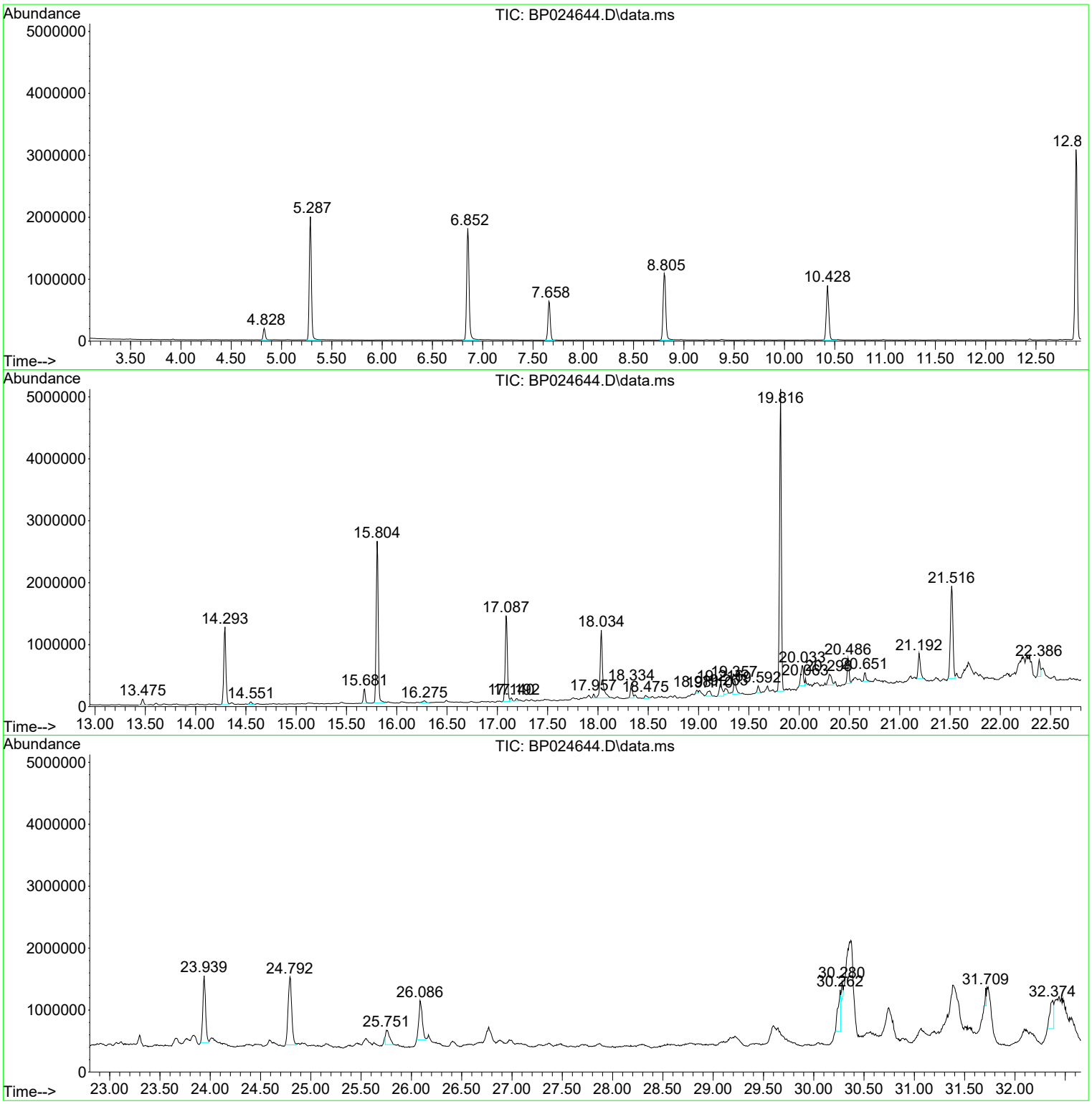
Sample Results: **BP024644.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024644.D
Acq On : 15 May 2025 19:23
Operator : RC/JU
Sample : Q1984-11
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-26-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024644.D
Acq On : 15 May 2025 19:23
Operator : RC/JU
Sample : Q1984-11
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-26-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024644.D
Acq On : 15 May 2025 19:23
Operator : RC/JU
Sample : Q1984-11
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-26-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-27-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-13	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	62.5
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024645.D	1	05/13/25 09:05	05/15/25 20:04	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.21	U	0.036	0.21	0.27	mg/Kg
91-57-6	2-Methylnaphthalene	0.21	U	0.041	0.21	0.27	mg/Kg
208-96-8	Acenaphthylene	0.21	U	0.046	0.21	0.27	mg/Kg
83-32-9	Acenaphthene	0.21	U	0.034	0.21	0.27	mg/Kg
86-73-7	Fluorene	0.21	U	0.041	0.21	0.27	mg/Kg
85-01-8	Phenanthrene	0.15	J	0.033	0.21	0.27	mg/Kg
120-12-7	Anthracene	0.21	U	0.053	0.21	0.27	mg/Kg
206-44-0	Fluoranthene	0.29		0.048	0.21	0.27	mg/Kg
129-00-0	Pyrene	0.22	J	0.058	0.21	0.27	mg/Kg
56-55-3	Benzo(a)anthracene	0.12	J	0.037	0.21	0.27	mg/Kg
218-01-9	Chrysene	0.13	J	0.032	0.21	0.27	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.17	J	0.030	0.21	0.27	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.21	U	0.036	0.21	0.27	mg/Kg
50-32-8	Benzo(a)pyrene	0.11	J	0.047	0.21	0.27	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.21	U	0.047	0.21	0.27	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.21	U	0.044	0.21	0.27	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.21	U	0.041	0.21	0.27	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	48.5		37 - 122		49%	SPK: 100
321-60-8	2-Fluorobiphenyl	40.8	*	44 - 115		41%	SPK: 100
1718-51-0	Terphenyl-d14	35.0	*	54 - 127		35%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	191000	7.663				
1146-65-2	Naphthalene-d8	746000	10.434				
15067-26-2	Acenaphthene-d10	449000	14.298				
1517-22-2	Phenanthrene-d10	847000	17.092				
1719-03-5	Chrysene-d12	940000	21.521				
1520-96-3	Perylene-d12	1130000	24.797				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-27-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-13	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	62.5
Sample Wt/Vol:	30.02 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024645.D	1	05/13/25 09:05	05/15/25 20:04	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972608	Alachlor	N.D					
82-68-8	Quintozine	N.D					

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_P\Data\BP051525\
Data File : BP024645.D
Acq On : 15 May 2025 20:04
Operator : RC/JU
Sample : Q1984-13
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Quant Time: May 16 01:17:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

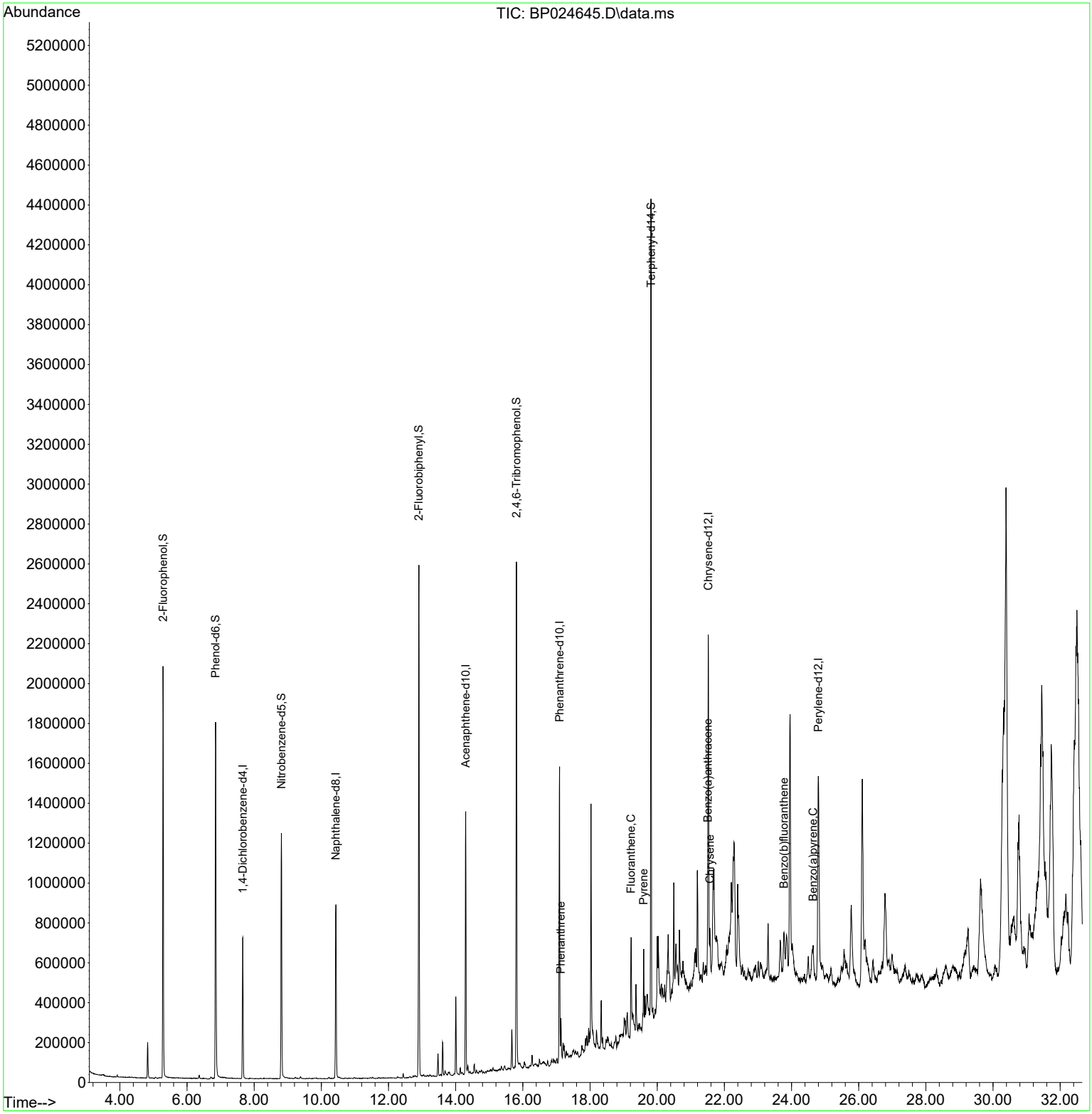
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.663	152	191006	20.000	ng		0.00
21) Naphthalene-d8	10.434	136	745950	20.000	ng		0.00
39) Acenaphthene-d10	14.298	164	449224	20.000	ng		0.00
64) Phenanthrene-d10	17.092	188	846872	20.000	ng		0.00
76) Chrysene-d12	21.521	240	939807	20.000	ng		0.00
86) Perylene-d12	24.797	264	1134836	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.287	112	901449	80.721	ng		0.00
7) Phenol-d6	6.851	99	1072017	75.214	ng		0.00
23) Nitrobenzene-d5	8.810	82	716222	48.513	ng		0.00
42) 2,4,6-Tribromophenol	15.810	330	560459	73.593	ng		0.00
45) 2-Fluorobiphenyl	12.904	172	1399760	40.823	ng		0.00
79) Terphenyl-d14	19.815	244	1916783	34.972	ng		0.00
Target Compounds							Qvalue
71) Phenanthrene	17.133	178	129320	2.747	ng		99
75) Fluoranthene	19.221	202	294514	5.352	ng		98
78) Pyrene	19.598	202	235873	4.189	ng		99
81) Benzo(a)anthracene	21.504	228	129019	2.186	ng		92
83) Chrysene	21.568	228	139150m	2.487	ng		
88) Benzo(b)fluoranthene	23.774	252	211556	3.257	ng	#	94
90) Benzo(a)pyrene	24.645	252	127234	2.039	ng	#	92

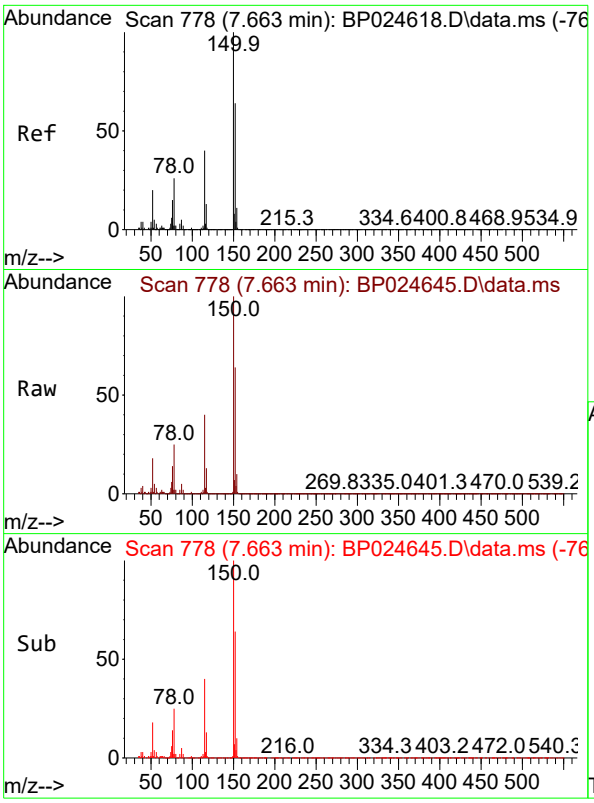
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024645.D
Acq On : 15 May 2025 20:04
Operator : RC/JU
Sample : Q1984-13
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Quant Time: May 16 01:17:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



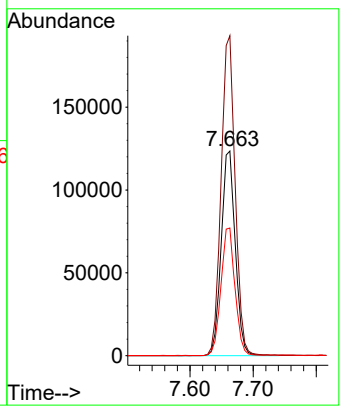


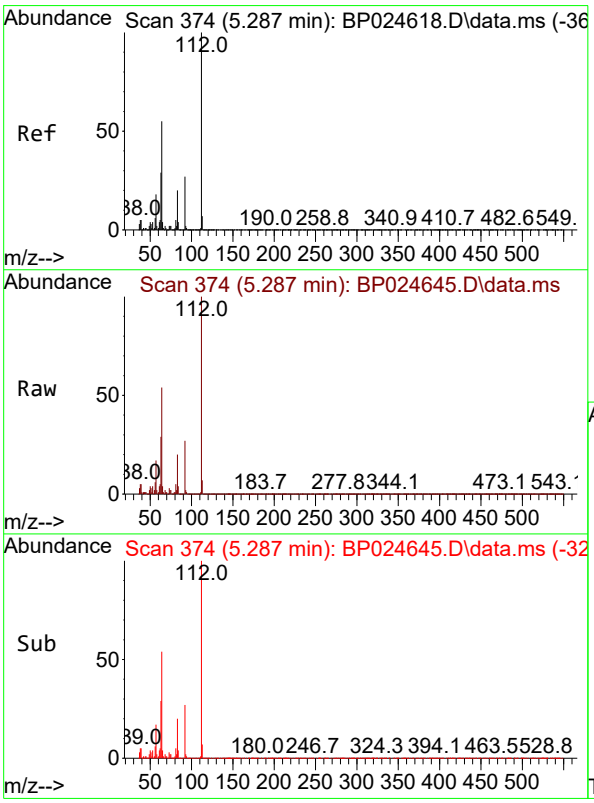
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.663 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:152 Resp: 191006

Ion	Ratio	Lower	Upper
152	100		
150	156.4	125.9	188.9
115	62.4	50.1	75.1

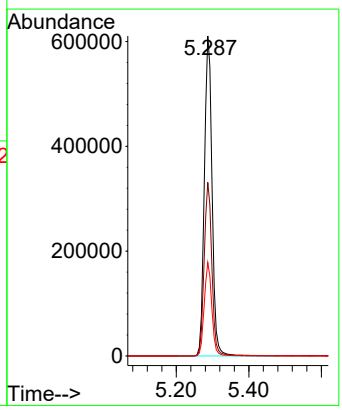


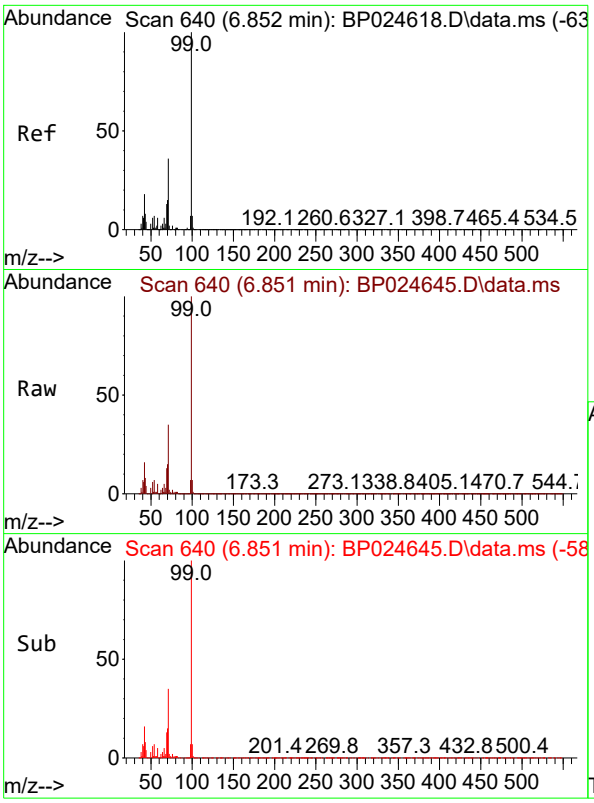


#5
2-Fluorophenol
Concen: 80.721 ng
RT: 5.287 min Scan# 374
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:112 Resp: 901449

Ion	Ratio	Lower	Upper
112	100		
64	54.2	44.1	66.1
63	29.2	23.5	35.3



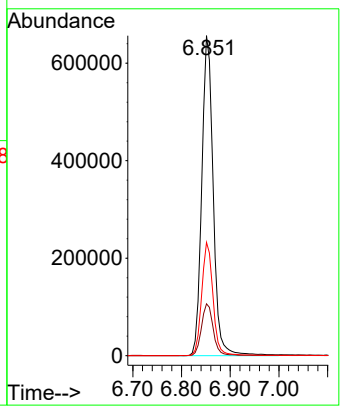


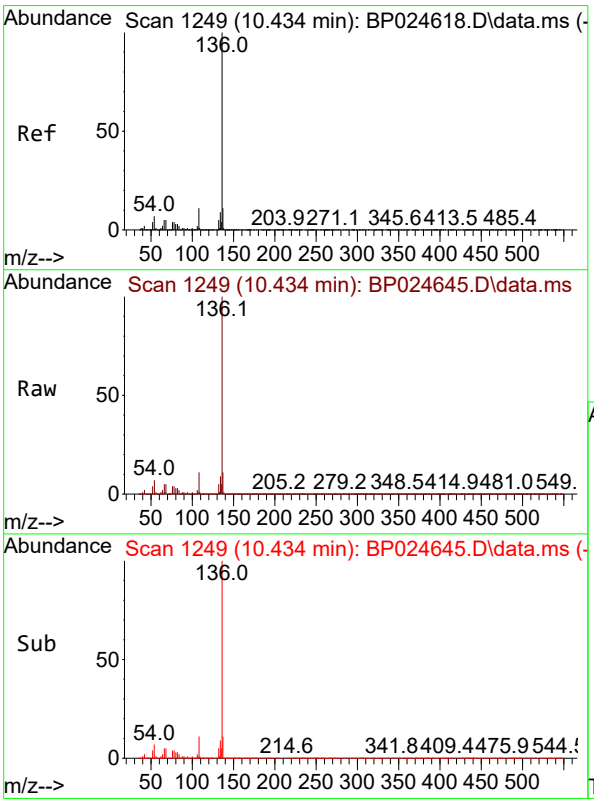
#7
Phenol-d6
Concen: 75.214 ng
RT: 6.851 min Scan# 64
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion: 99 Resp: 1072017

Ion	Ratio	Lower	Upper
99	100		
42	16.2	14.4	21.6
71	35.4	29.2	43.8

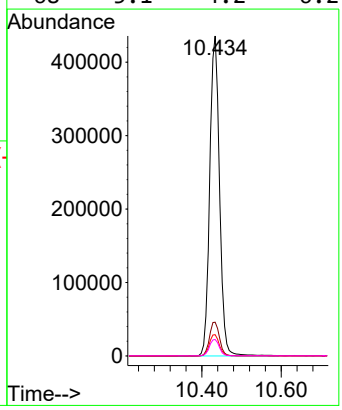


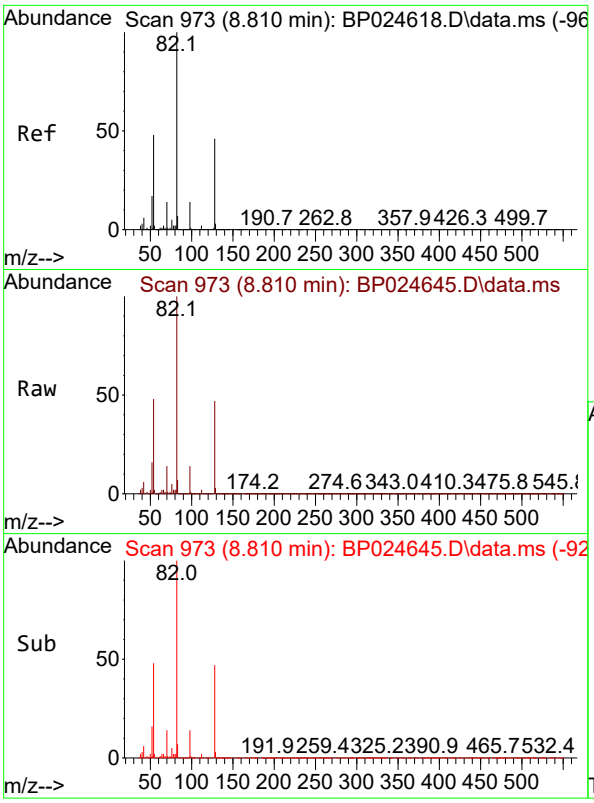


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.434 min Scan# 1249
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:136 Resp: 745950

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	6.7	5.5	8.3
68	5.1	4.2	6.2



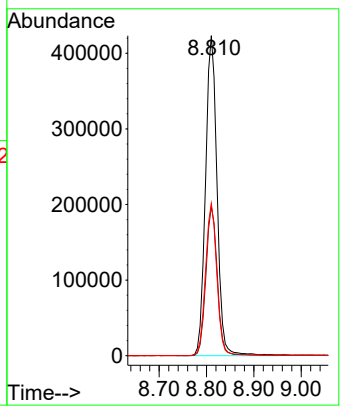


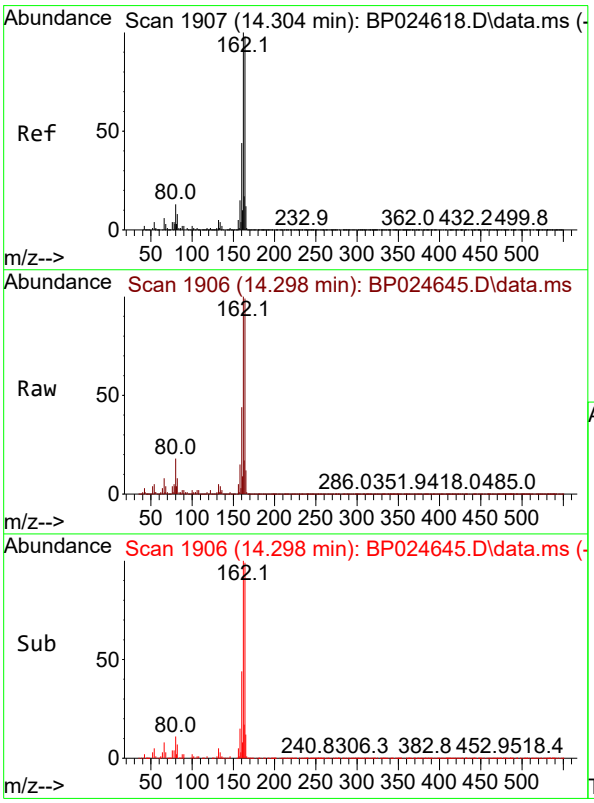
#23
Nitrobenzene-d5
Concen: 48.513 ng
RT: 8.810 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion: 82 Resp: 716222

Ion	Ratio	Lower	Upper
82	100		
128	46.6	37.0	55.4
54	47.6	38.7	58.1

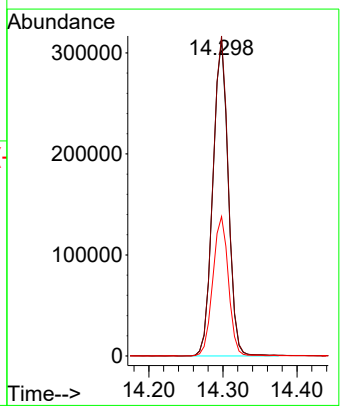


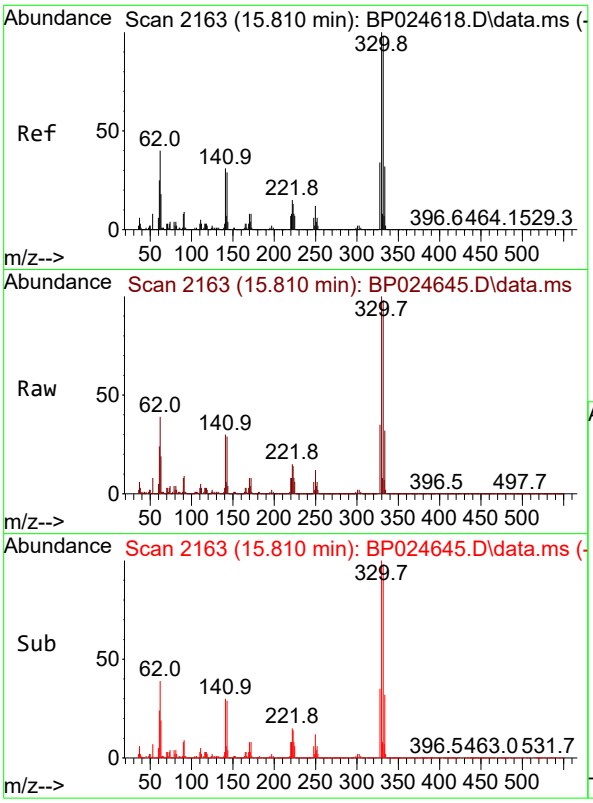


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.298 min Scan# 1906
Delta R.T. -0.006 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:164 Resp: 449224

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.8	122.6
160	44.1	36.3	54.5



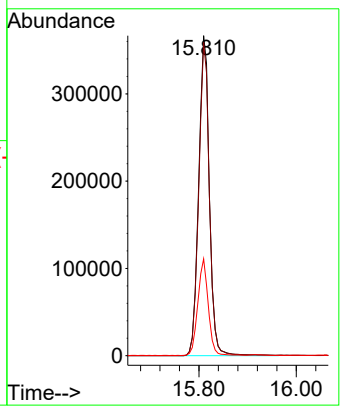


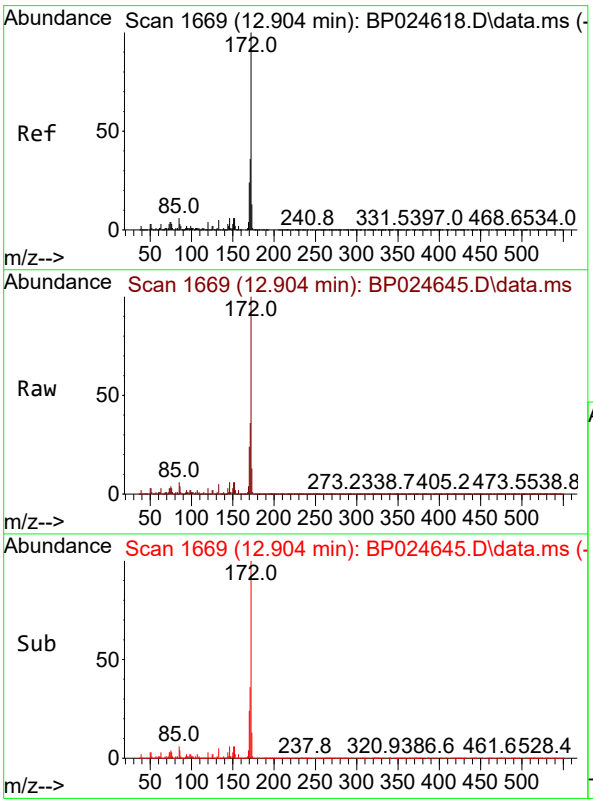
#42
2,4,6-Tribromophenol
Concen: 73.593 ng
RT: 15.810 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:330 Resp: 560459

Ion	Ratio	Lower	Upper
330	100		
332	96.8	78.2	117.4
141	29.4	24.3	36.5

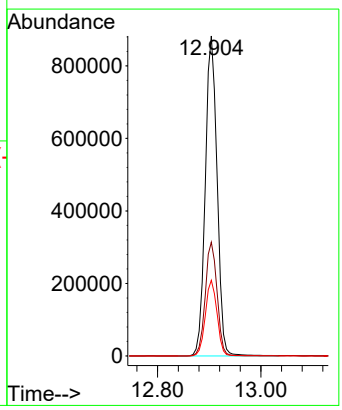


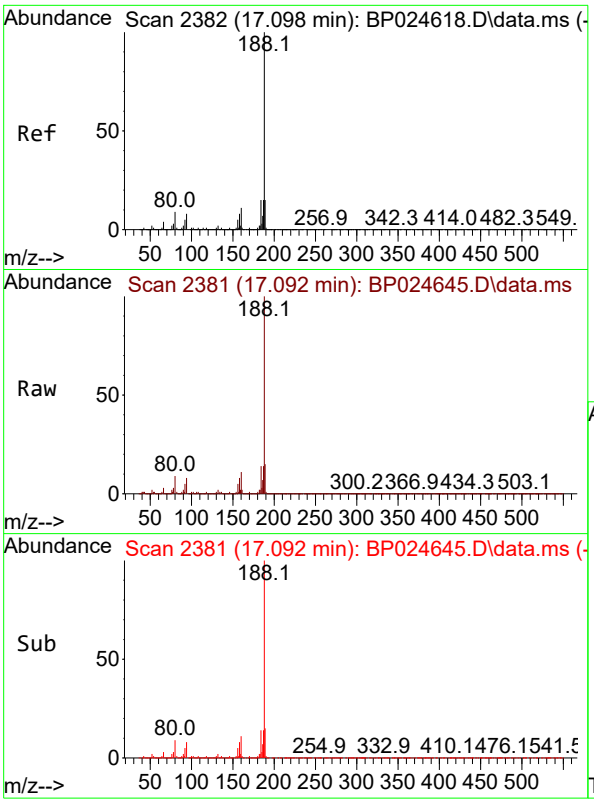


#45
2-Fluorobiphenyl
Concen: 40.823 ng
RT: 12.904 min Scan# 1669
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:172 Resp: 1399760

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.8	43.2
170	23.6	18.8	28.2



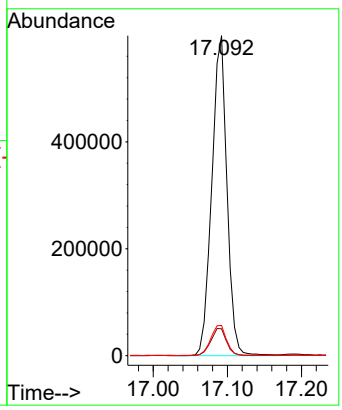


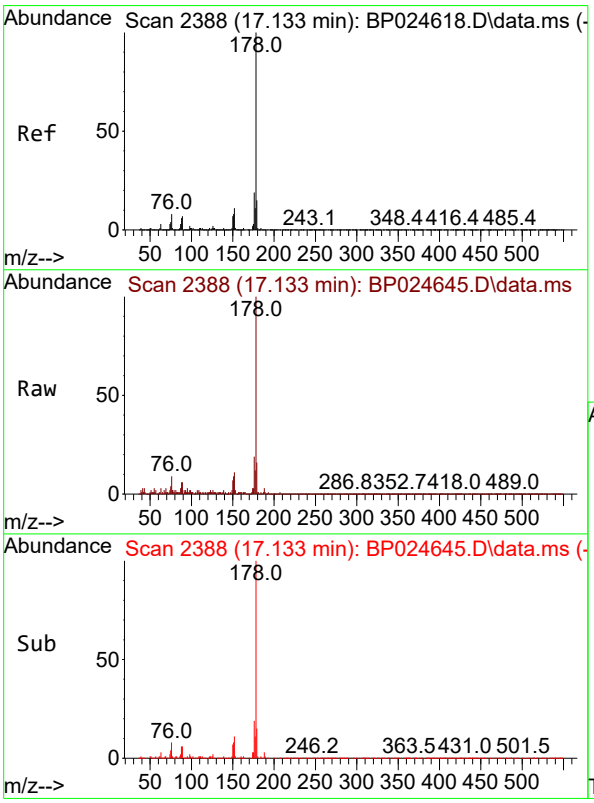
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.092 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:188 Resp: 846872

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.5	9.7
80	9.5	7.3	10.9

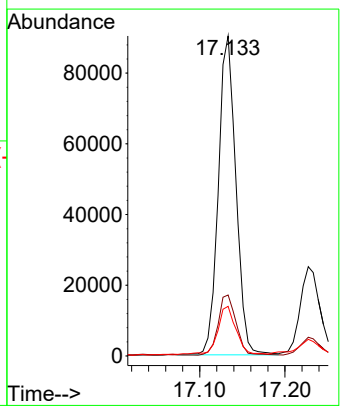


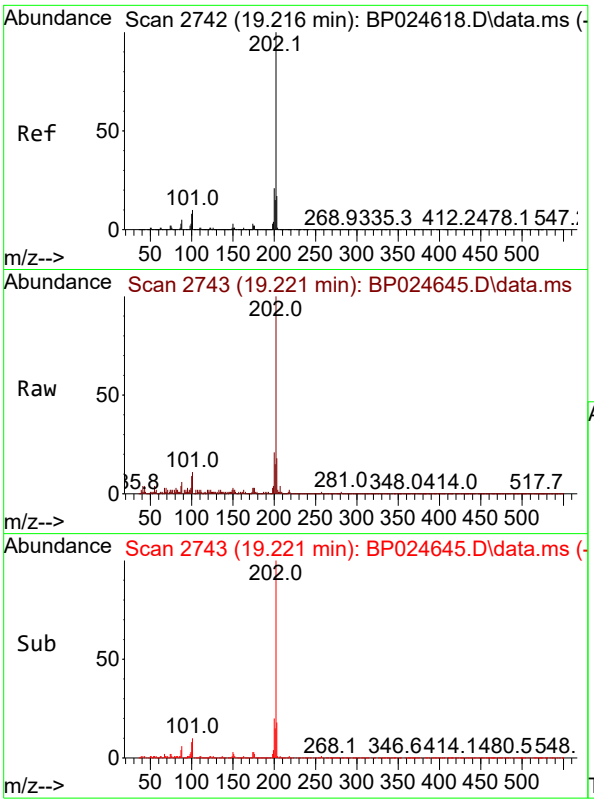


#71
Phenanthrene
Concen: 2.747 ng
RT: 17.133 min Scan# 2388
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:178 Resp: 129320

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.5	12.2	18.4



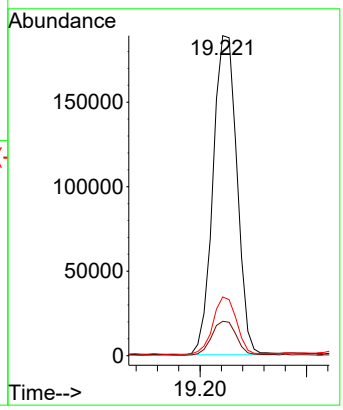


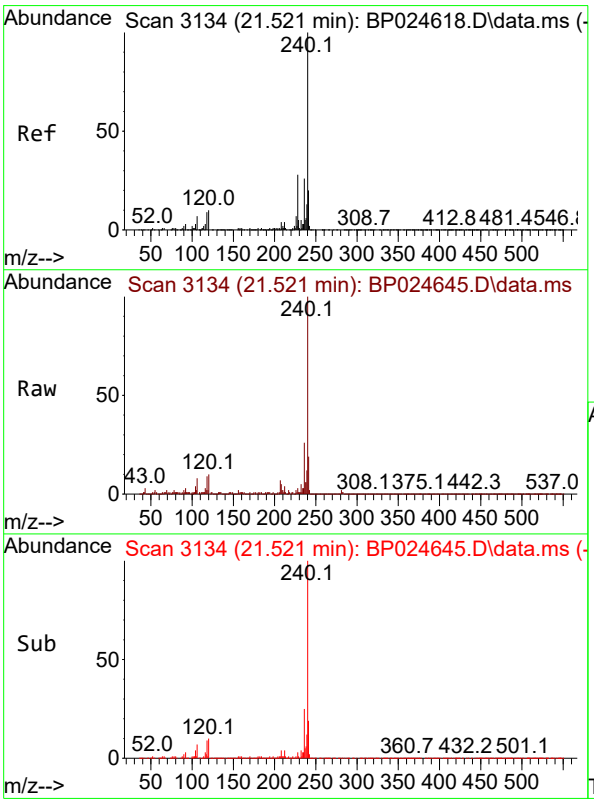
#75
Fluoranthene
Concen: 5.352 ng
RT: 19.221 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:202 Resp: 294514

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	30.3
203	18.4	0.0	37.5

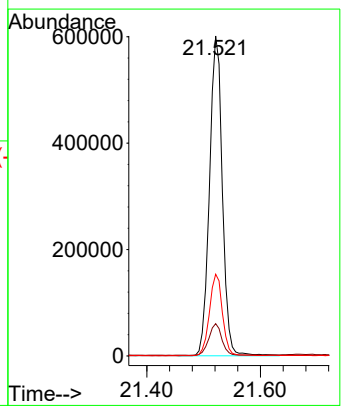


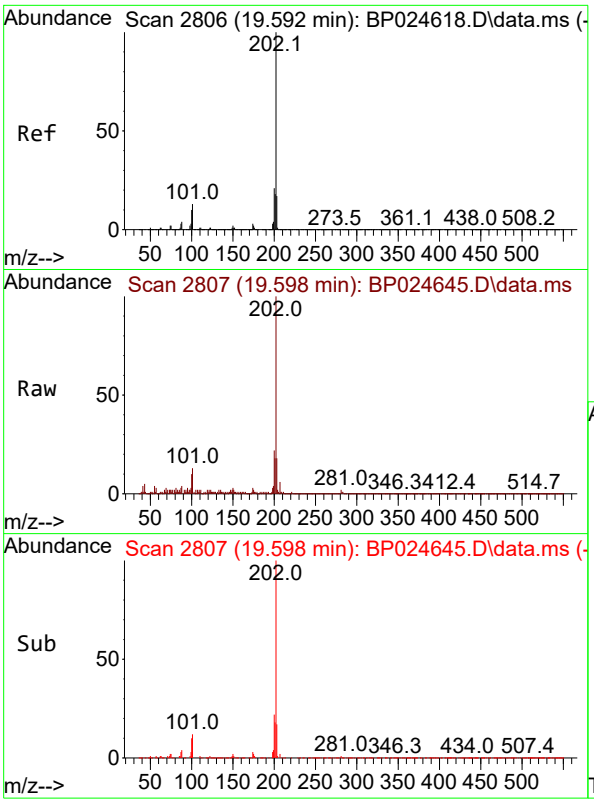


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.521 min Scan# 3134
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:240 Resp: 939807

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.8	11.6
236	25.5	20.6	31.0



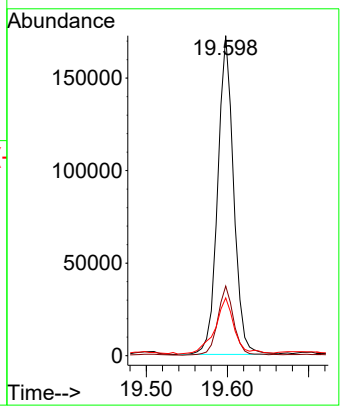


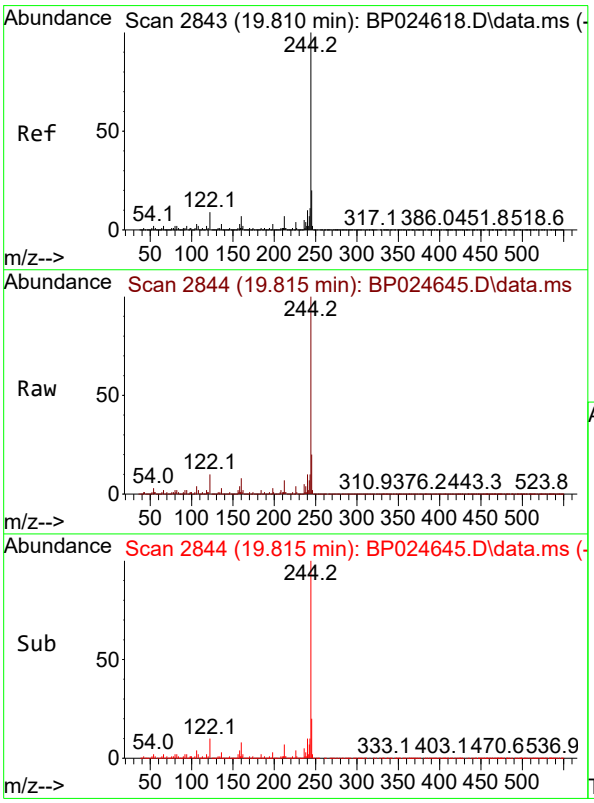
#78
Pyrene
Concen: 4.189 ng
RT: 19.598 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:202 Resp: 235873

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.9	25.3
203	18.1	13.9	20.9

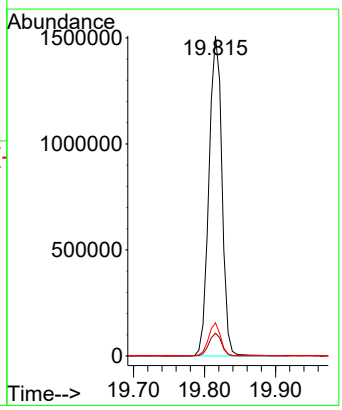


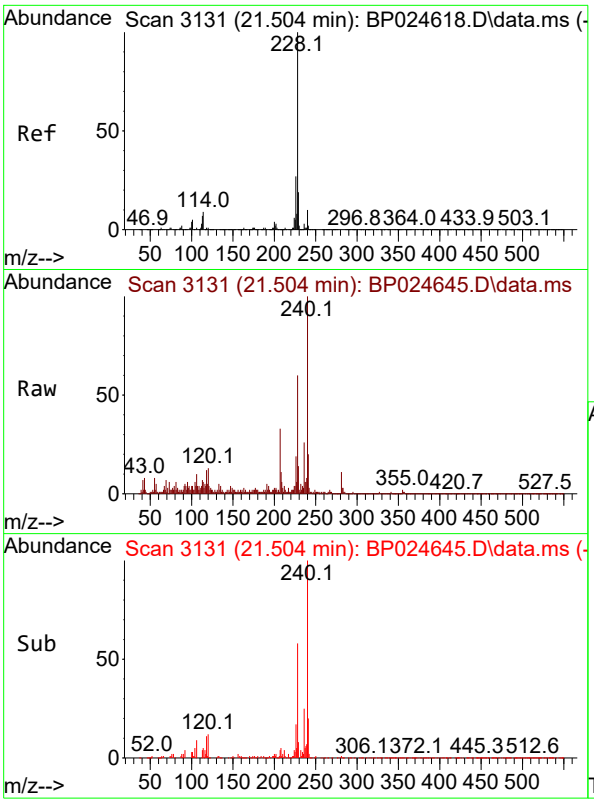


#79
Terphenyl-d14
Concen: 34.972 ng
RT: 19.815 min Scan# 2844
Delta R.T. 0.006 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:244 Resp: 1916783

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.5	8.3
122	10.4	7.4	11.0



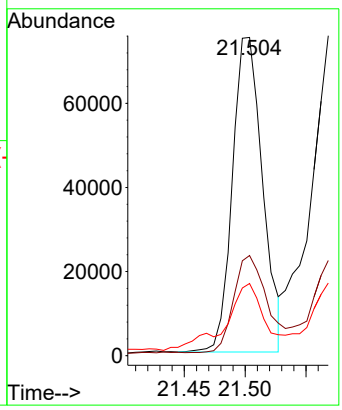


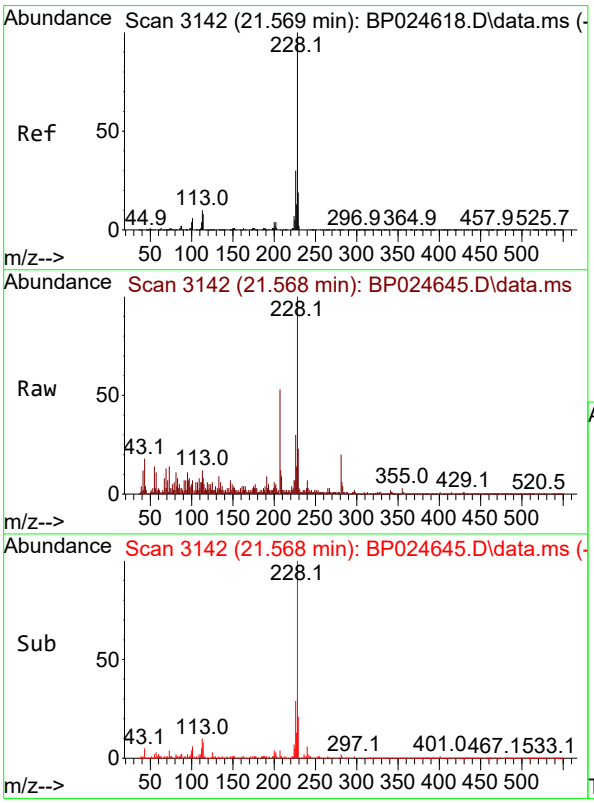
#81
Benzo(a)anthracene
Concen: 2.186 ng
RT: 21.504 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:228 Resp: 129019

Ion	Ratio	Lower	Upper
228	100		
226	31.5	21.4	32.0
229	22.7	15.5	23.3

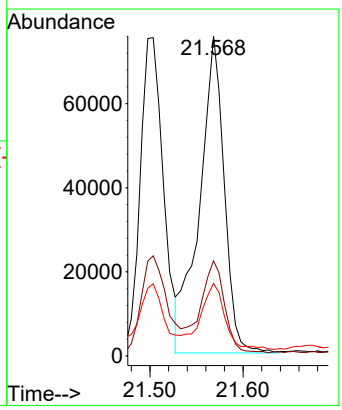


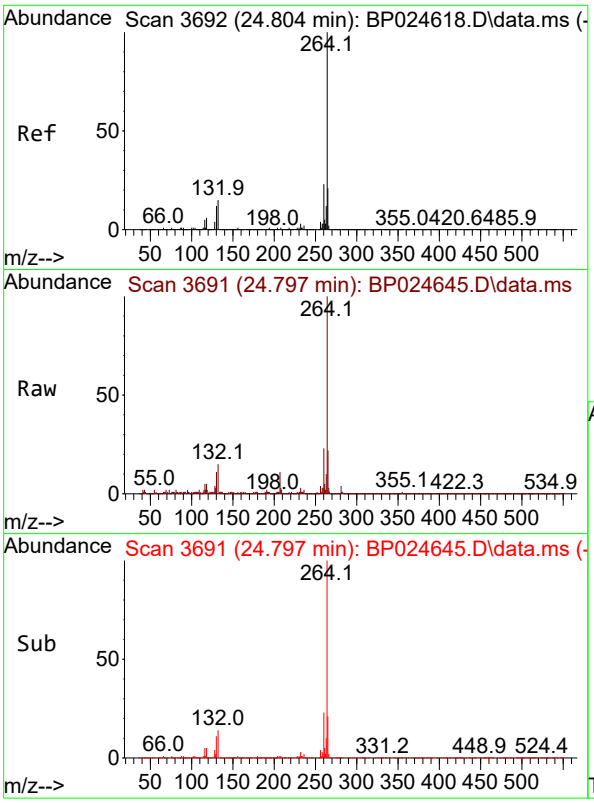


#83
Chrysene
Concen: 2.487 ng m
RT: 21.568 min Scan# 3142
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:228 Resp: 139150

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.9	35.9
229	22.7	15.5	23.3



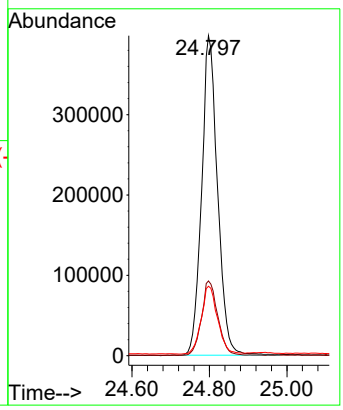


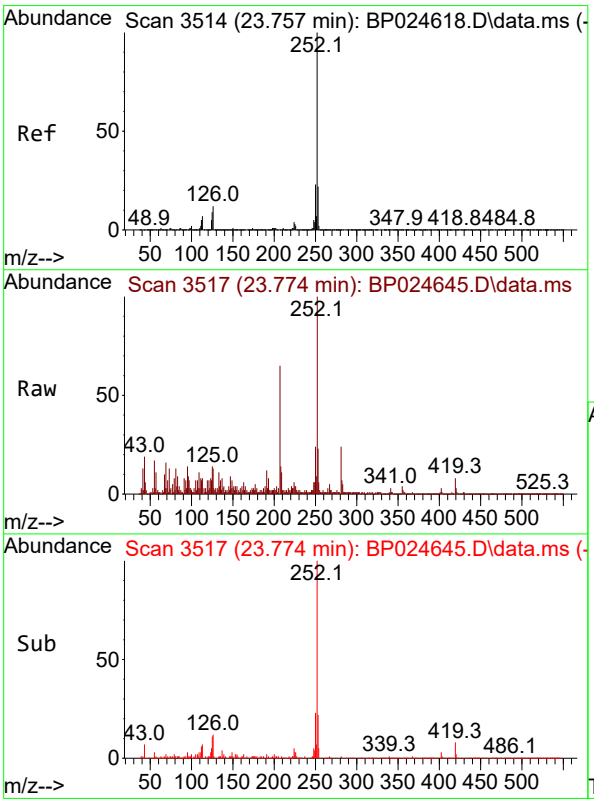
#86
Perylene-d12
Concen: 20.000 ng
RT: 24.797 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:264 Resp: 1134836

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.7	28.1
265	21.7	17.0	25.6

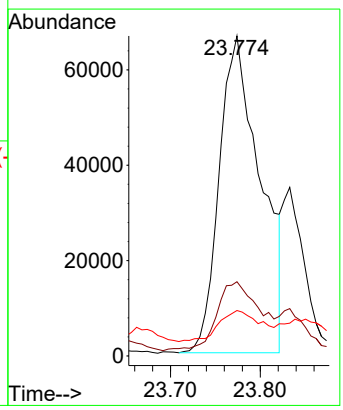


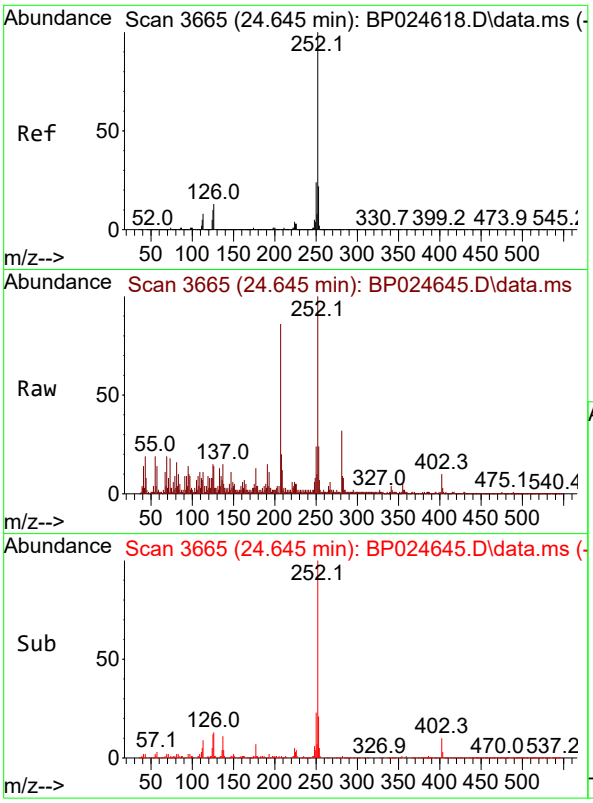


#88
Benzo(b)fluoranthene
Concen: 3.257 ng
RT: 23.774 min Scan# 3517
Delta R.T. 0.017 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:252 Resp: 211556

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.7	26.5
125	14.2	7.5	11.3#



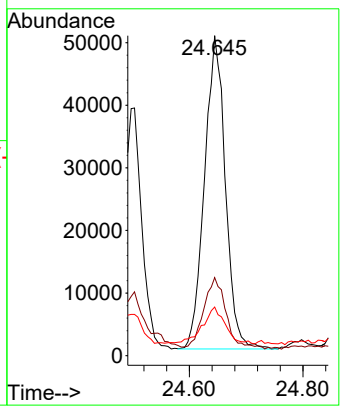


#90
Benzo(a)pyrene
Concen: 2.039 ng
RT: 24.645 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:252 Resp: 127234

Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.7	26.5
125	15.2	8.1	12.1#



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024645.D
Acq On : 15 May 2025 20:04
Operator : RC/JU
Sample : Q1984-13
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024645.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.828	291	296	306	rVB	177805	250952	4.99%	0.435%
2	5.287	368	374	388	rBV	2062929	3000928	59.72%	5.207%
3	6.851	630	640	657	rBV	1786172	2964757	59.00%	5.144%
4	7.663	767	778	789	rBV	708325	1114420	22.18%	1.934%
5	8.810	965	973	993	rBV	1229923	2093069	41.65%	3.632%
6	10.434	1241	1249	1262	rBV	869751	1490950	29.67%	2.587%
7	12.904	1660	1669	1684	rBV	2565669	4080394	81.20%	7.080%
8	13.475	1759	1766	1771	rBV	114336	177497	3.53%	0.308%
9	13.610	1784	1789	1796	rBV	169397	255491	5.08%	0.443%
10	14.004	1850	1856	1867	rVB2	389569	558547	11.11%	0.969%
11	14.139	1873	1879	1883	rBV2	34438	55378	1.10%	0.096%
12	14.298	1899	1906	1913	rBV	1315187	1926767	38.34%	3.343%
13	14.363	1913	1917	1923	rVB4	37977	67071	1.33%	0.116%
14	14.557	1944	1950	1957	rVB4	44956	80229	1.60%	0.139%
15	15.457	2096	2103	2113	rBV3	22646	64470	1.28%	0.112%
16	15.674	2133	2140	2148	rBV	200900	323038	6.43%	0.560%
17	15.810	2156	2163	2174	rBV	2531087	3765159	74.93%	6.533%
18	16.274	2238	2242	2250	rVB4	55008	78509	1.56%	0.136%
19	16.492	2276	2279	2286	rBV6	31176	55803	1.11%	0.097%
20	17.092	2374	2381	2385	rBV	1482452	2126331	42.31%	3.689%
21	17.133	2385	2388	2395	rVB	200230	295916	5.89%	0.513%
22	17.198	2395	2399	2402	rBV	75487	108126	2.15%	0.188%
23	17.757	2491	2494	2497	rBV3	42814	60523	1.20%	0.105%
24	17.868	2509	2513	2515	rBV3	58802	75222	1.50%	0.131%
25	17.904	2515	2519	2523	rVV5	54584	90209	1.80%	0.157%
26	17.957	2525	2528	2531	rBV	80727	93202	1.85%	0.162%
27	17.992	2531	2534	2536	rBV2	45982	52241	1.04%	0.091%
28	18.027	2536	2540	2549	rBV	1177560	1591391	31.67%	2.761%
29	18.192	2564	2568	2573	rBV2	86973	140205	2.79%	0.243%
30	18.333	2588	2592	2596	rBV2	225504	317222	6.31%	0.550%
31	19.015	2706	2708	2712	rBV3	56273	87902	1.75%	0.153%
32	19.110	2719	2724	2733	rVB4	124743	269409	5.36%	0.467%
33	19.221	2737	2743	2749	rBV	505272	981730	19.54%	1.703%
34	19.368	2764	2768	2776	rVB3	231502	363479	7.23%	0.631%
35	19.598	2803	2807	2811	rVB	342951	407708	8.11%	0.707%
36	19.639	2811	2814	2817	rBV	108783	112334	2.24%	0.195%

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024645.D
Acq On : 15 May 2025 20:04
Operator : RC/JU
Sample : Q1984-13
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	19.815	2839	2844	2850	rBV	4079851	5025214	100.00%	8.719%
38	20.004	2872	2876	2879	rBV	316762	475658	9.47%	0.825%
39	20.033	2879	2881	2889	rVB2	297875	406512	8.09%	0.705%
40	20.492	2956	2959	2965	rBV	494507	633280	12.60%	1.099%
41	20.662	2984	2988	2997	rBV	276434	528208	10.51%	0.916%
42	21.198	3075	3079	3087	rVB2	515061	854631	17.01%	1.483%
43	21.521	3127	3134	3140	rBV2	1691737	3026164	60.22%	5.250%
44	21.668	3154	3159	3161	rBV3	380966	651858	12.97%	1.131%
45	22.398	3278	3283	3285	rBV	394767	599064	11.92%	1.039%
46	23.303	3433	3437	3446	rVB	281211	468290	9.32%	0.812%
47	23.956	3540	3548	3556	rBV	1252678	2967632	59.05%	5.149%
48	24.797	3684	3691	3701	rBV	947545	2512671	50.00%	4.360%
49	26.109	3905	3914	3923	rBV	976093	2833840	56.39%	4.917%
50	30.738	4698	4701	4702	rBV3	326182	334885	6.66%	0.581%
51	31.732	4868	4870	4892	rVB6	1130756	4375210	87.07%	7.591%
52	32.421	4975	4987	4988	rBV3	879511	2366309	47.09%	4.106%

Sum of corrected areas: 57636005

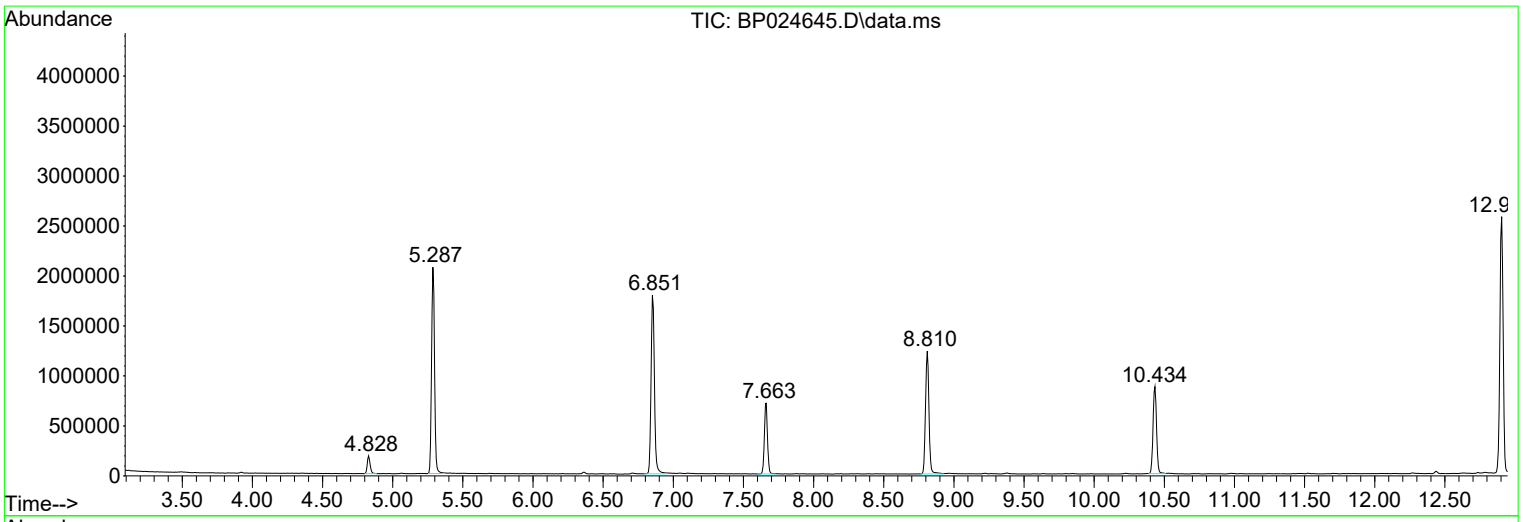
Sample Results: **BP024645.D**

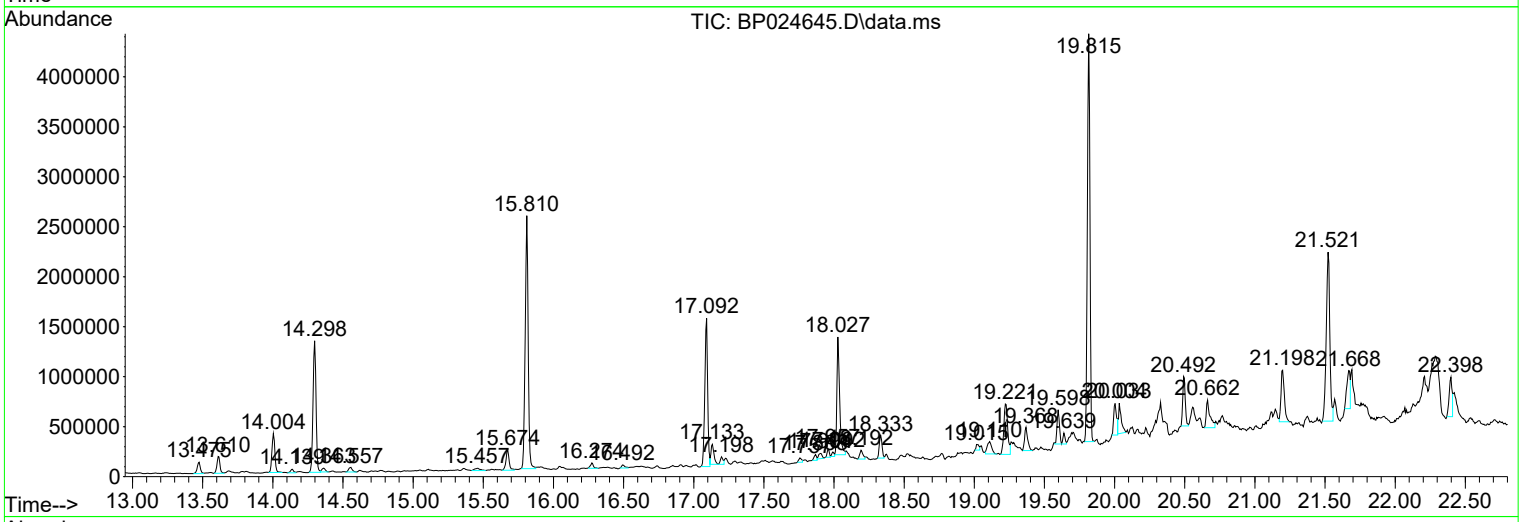
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024645.D
Acq On : 15 May 2025 20:04
Operator : RC/JU
Sample : Q1984-13
Misc :
ALS Vial : 13 Sample Multiplier: 1

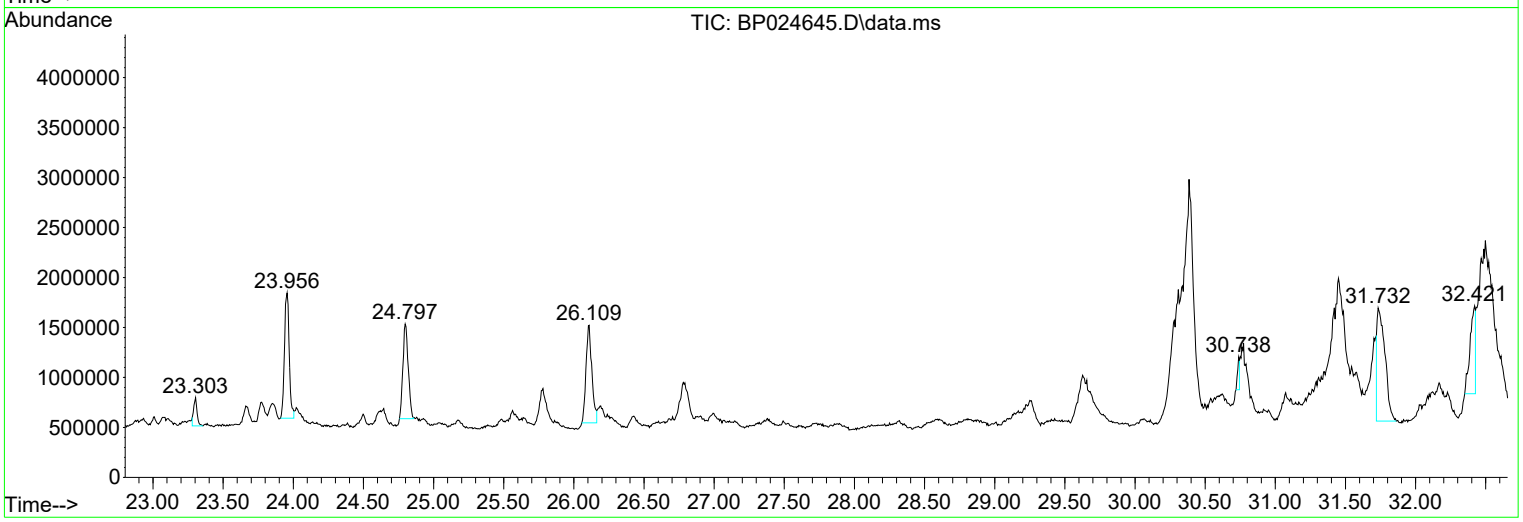
Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024645.D
Acq On : 15 May 2025 20:04
Operator : RC/JU
Sample : Q1984-13
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024645.D
Acq On : 15 May 2025 20:04
Operator : RC/JU
Sample : Q1984-13
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-27-050725RX	SDG No.:	Q1984
Lab Sample ID:	Q1984-13RX	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	62.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024725.D	1	05/19/25 09:45	05/21/25 04:10	PB168052

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.21	U	0.036	0.21	0.27	mg/Kg
91-57-6	2-Methylnaphthalene	0.21	U	0.041	0.21	0.27	mg/Kg
208-96-8	Acenaphthylene	0.21	U	0.046	0.21	0.27	mg/Kg
83-32-9	Acenaphthene	0.21	U	0.034	0.21	0.27	mg/Kg
86-73-7	Fluorene	0.21	U	0.040	0.21	0.27	mg/Kg
85-01-8	Phenanthrene	0.21	U	0.033	0.21	0.27	mg/Kg
120-12-7	Anthracene	0.21	U	0.053	0.21	0.27	mg/Kg
206-44-0	Fluoranthene	0.21	U	0.048	0.21	0.27	mg/Kg
129-00-0	Pyrene	0.21	U	0.058	0.21	0.27	mg/Kg
56-55-3	Benzo(a)anthracene	0.21	U	0.037	0.21	0.27	mg/Kg
218-01-9	Chrysene	0.21	U	0.032	0.21	0.27	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.21	U	0.030	0.21	0.27	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.21	U	0.036	0.21	0.27	mg/Kg
50-32-8	Benzo(a)pyrene	0.21	U	0.047	0.21	0.27	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.21	U	0.047	0.21	0.27	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.21	U	0.044	0.21	0.27	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.21	U	0.041	0.21	0.27	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	42.7		37 - 122		43%	SPK: 100
321-60-8	2-Fluorobiphenyl	41.9	*	44 - 115		42%	SPK: 100
1718-51-0	Terphenyl-d14	40.3	*	54 - 127		40%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	153000	7.657				
1146-65-2	Naphthalene-d8	636000	10.422				
15067-26-2	Acenaphthene-d10	397000	14.286				
1517-22-2	Phenanthrene-d10	727000	17.08				
1719-03-5	Chrysene-d12	788000	21.51				
1520-96-3	Perylene-d12	957000	24.786				

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-27-050725RX	SDG No.:	Q1984
Lab Sample ID:	Q1984-13RX	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	62.5
Sample Wt/Vol:	30.06 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024725.D	1	05/19/25 09:45	05/21/25 04:10	PB168052

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_P\Data\BP052025\
Data File : BP024725.D
Acq On : 21 May 2025 04:10
Operator : RC/JU
Sample : Q1984-13RX
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725RX

Quant Time: May 21 05:23:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

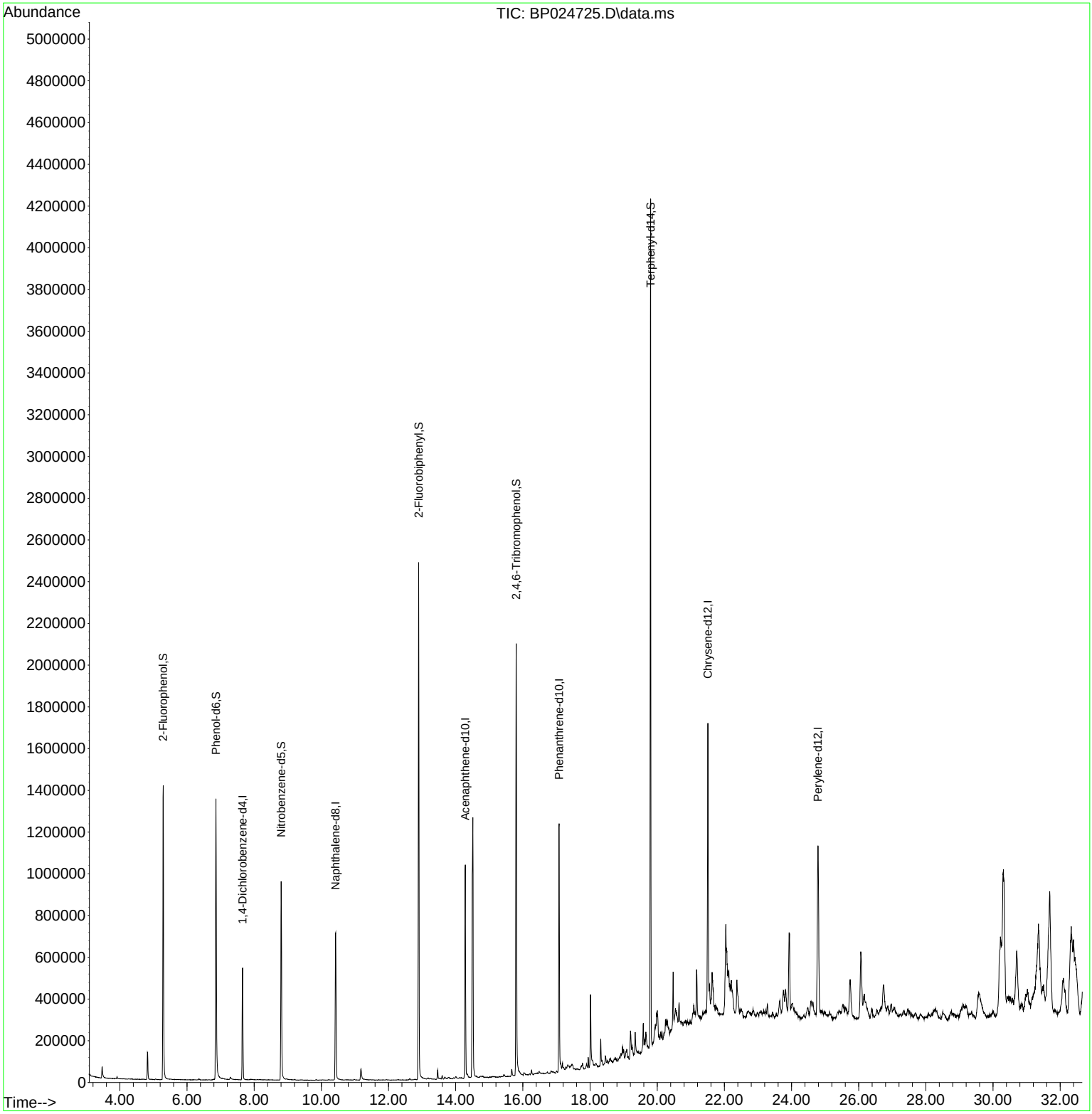
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.657	152	153158	20.000	ng	0.00
21) Naphthalene-d8	10.422	136	636408	20.000	ng	-0.01
39) Acenaphthene-d10	14.286	164	397224	20.000	ng	-0.02
64) Phenanthrene-d10	17.080	188	726572	20.000	ng	-0.02
76) Chrysene-d12	21.510	240	787708	20.000	ng	-0.01
86) Perylene-d12	24.786	264	957235	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.293	112	662189	73.949	ng	0.00
7) Phenol-d6	6.863	99	858393	75.109	ng	0.01
23) Nitrobenzene-d5	8.804	82	537349	42.662	ng	0.00
42) 2,4,6-Tribromophenol	15.804	330	533522	79.227	ng	0.00
45) 2-Fluorobiphenyl	12.898	172	1269911	41.884	ng	0.00
79) Terphenyl-d14	19.804	244	1849860	40.268	ng	0.00
Target Compounds						Qvalue

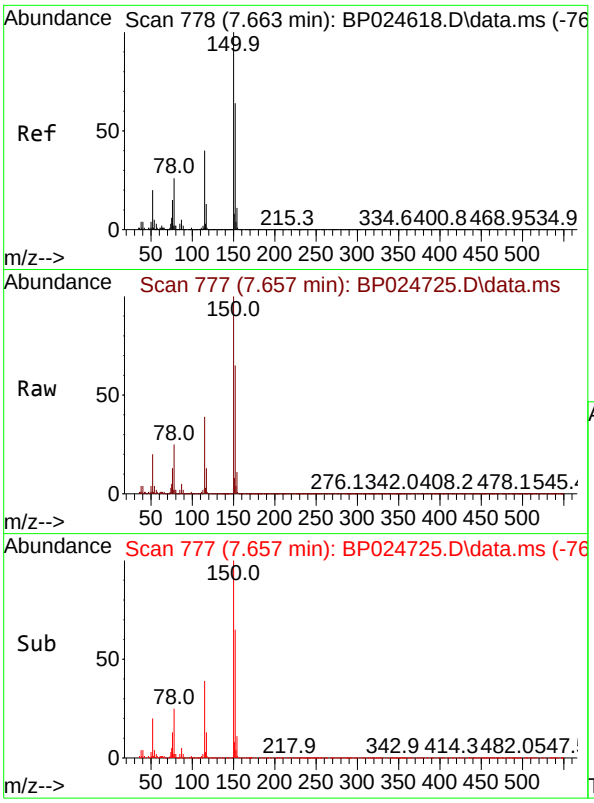
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024725.D
Acq On : 21 May 2025 04:10
Operator : RC/JU
Sample : Q1984-13RX
Misc :
ALS Vial : 26 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725RX

Quant Time: May 21 05:23:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



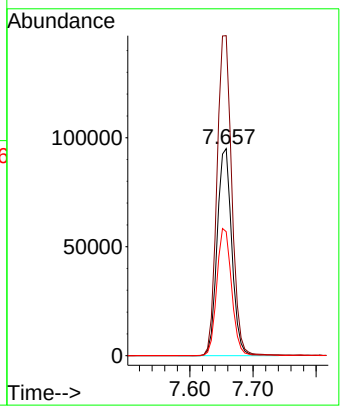


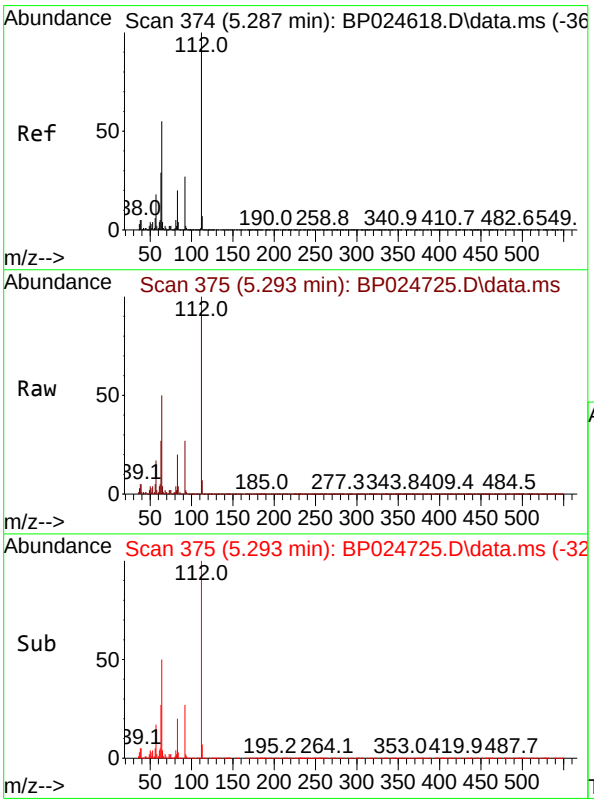
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.657 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024725.D
Acq: 21 May 2025 04:10

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725RX

Tgt Ion:152 Resp: 153158

Ion	Ratio	Lower	Upper
152	100		
150	154.6	125.9	188.9
115	59.9	50.1	75.1

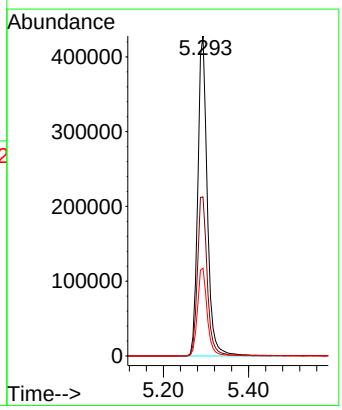


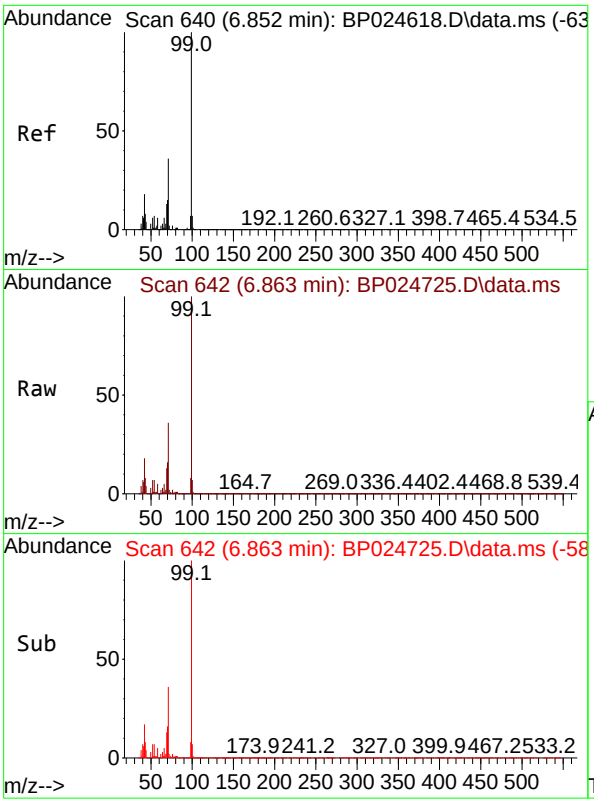


#5
2-Fluorophenol
Concen: 73.949 ng
RT: 5.293 min Scan# 375
Delta R.T. 0.006 min
Lab File: BP024725.D
Acq: 21 May 2025 04:10

Tgt Ion:112 Resp: 662189

Ion	Ratio	Lower	Upper
112	100		
64	49.7	44.1	66.1
63	27.4	23.5	35.3



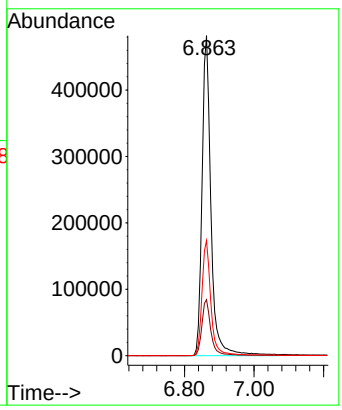


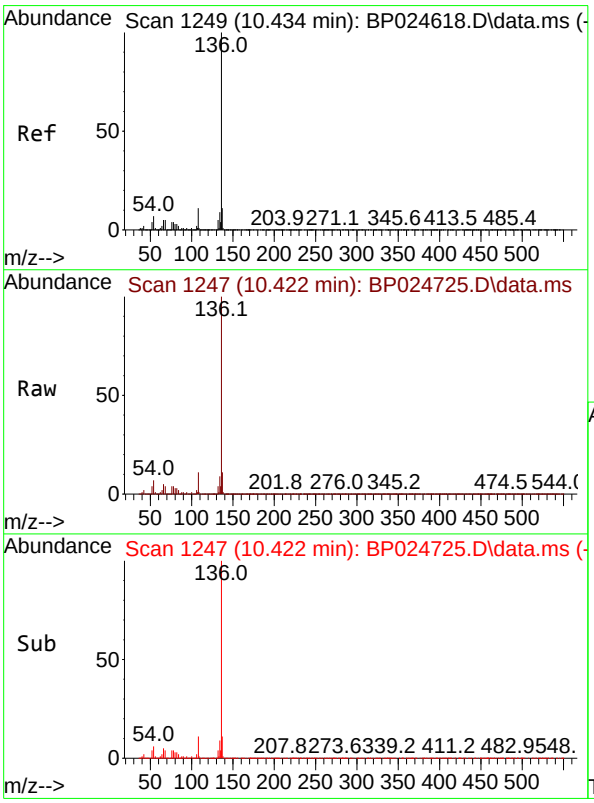
#7
Phenol-d6
Concen: 75.109 ng
RT: 6.863 min Scan# 64
Delta R.T. 0.012 min
Lab File: BP024725.D
Acq: 21 May 2025 04:10

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725RX

Tgt Ion: 99 Resp: 858393

Ion	Ratio	Lower	Upper
99	100		
42	17.5	14.4	21.6
71	36.0	29.2	43.8

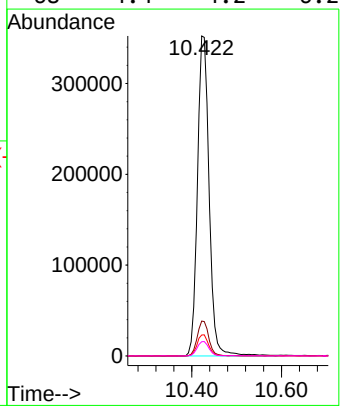


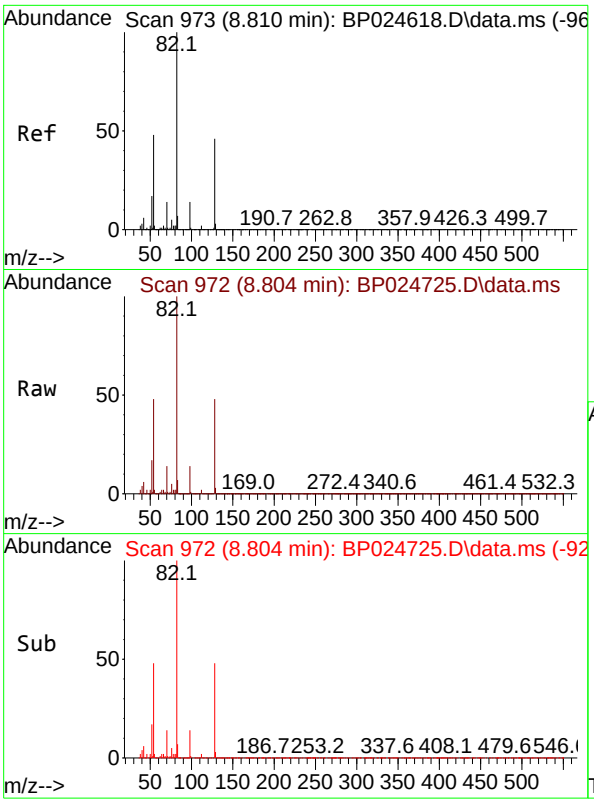


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.422 min Scan# 1247
Delta R.T. -0.012 min
Lab File: BP024725.D
Acq: 21 May 2025 04:10

Tgt Ion:136 Resp: 636408

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	6.5	5.5	8.3
68	4.4	4.2	6.2



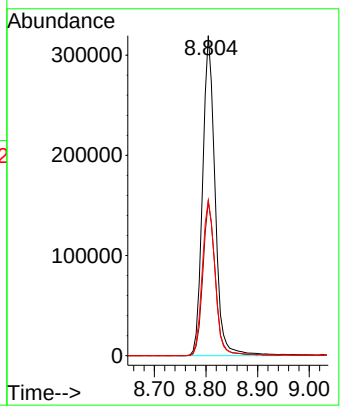


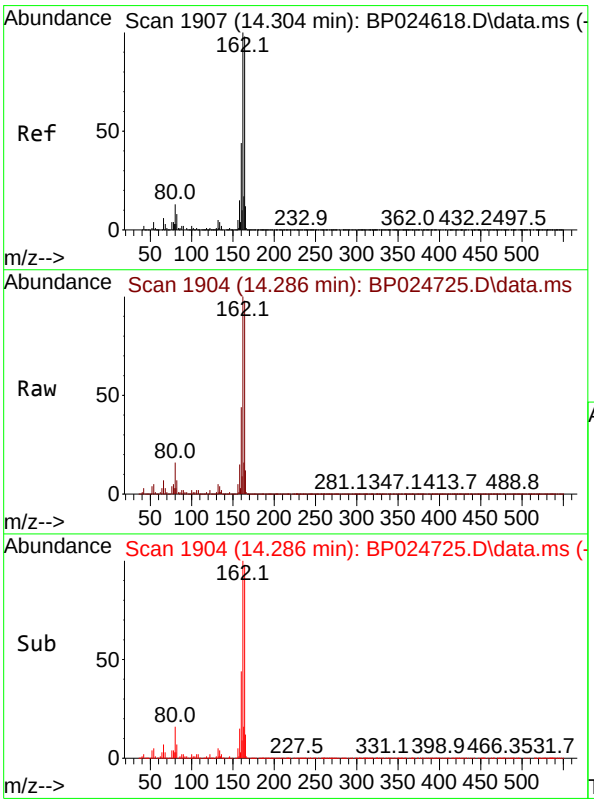
#23
Nitrobenzene-d5
Concen: 42.662 ng
RT: 8.804 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024725.D
Acq: 21 May 2025 04:10

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725RX

Tgt Ion: 82 Resp: 537349

Ion	Ratio	Lower	Upper
82	100		
128	48.2	37.0	55.4
54	48.5	38.7	58.1

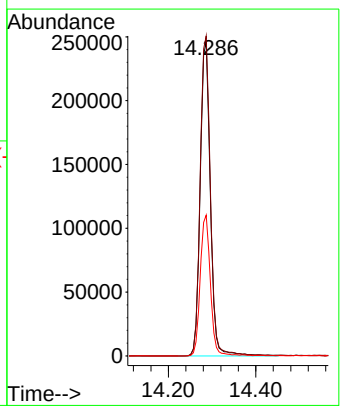


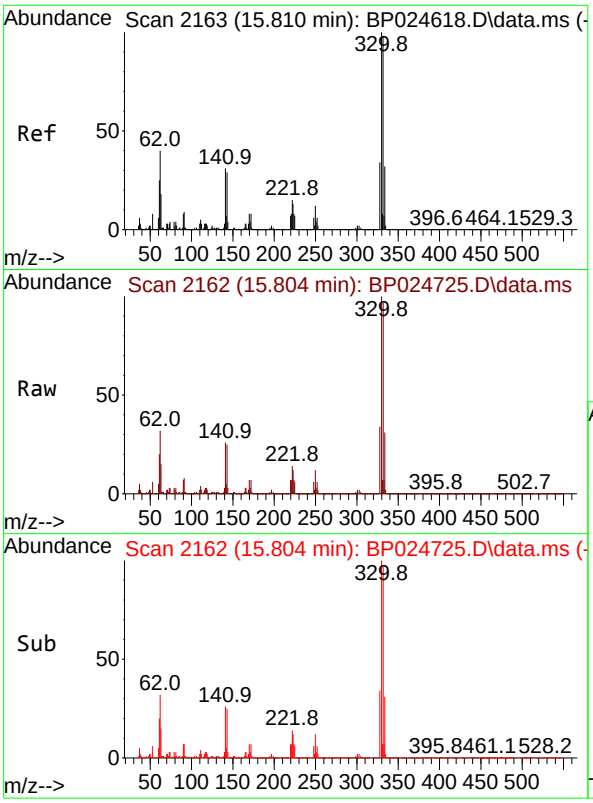


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.286 min Scan# 1904
Delta R.T. -0.018 min
Lab File: BP024725.D
Acq: 21 May 2025 04:10

Tgt Ion:164 Resp: 397224

Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.8	122.6
160	44.9	36.3	54.5



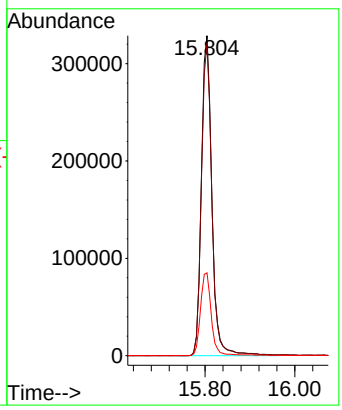


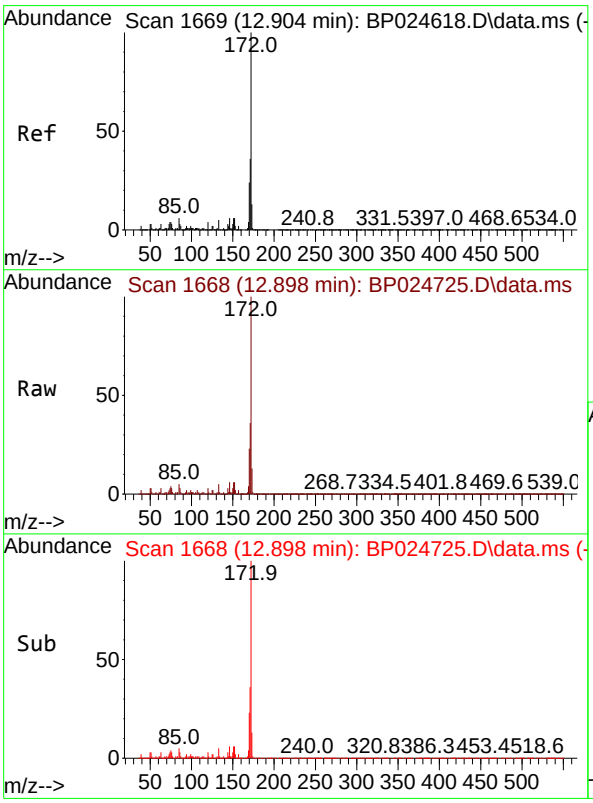
#42
2,4,6-Tribromophenol
Concen: 79.227 ng
RT: 15.804 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024725.D
Acq: 21 May 2025 04:10

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725RX

Tgt Ion:330 Resp: 533522

Ion	Ratio	Lower	Upper
330	100		
332	97.5	78.2	117.4
141	26.4	24.3	36.5

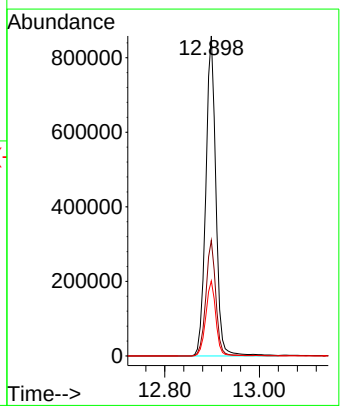


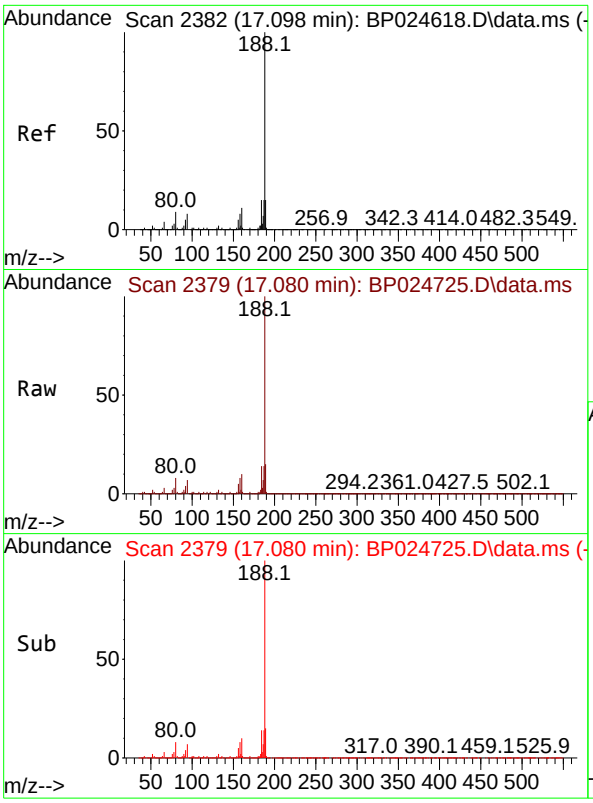


#45
2-Fluorobiphenyl
Concen: 41.884 ng
RT: 12.898 min Scan# 1668
Delta R.T. -0.006 min
Lab File: BP024725.D
Acq: 21 May 2025 04:10

Tgt Ion:172 Resp: 1269911

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.8	43.2
170	23.5	18.8	28.2



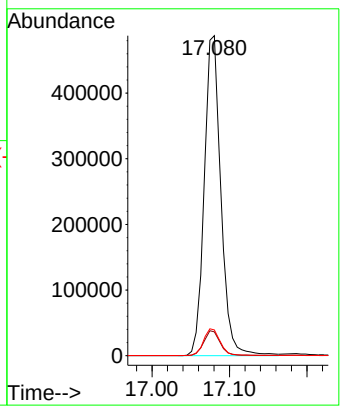


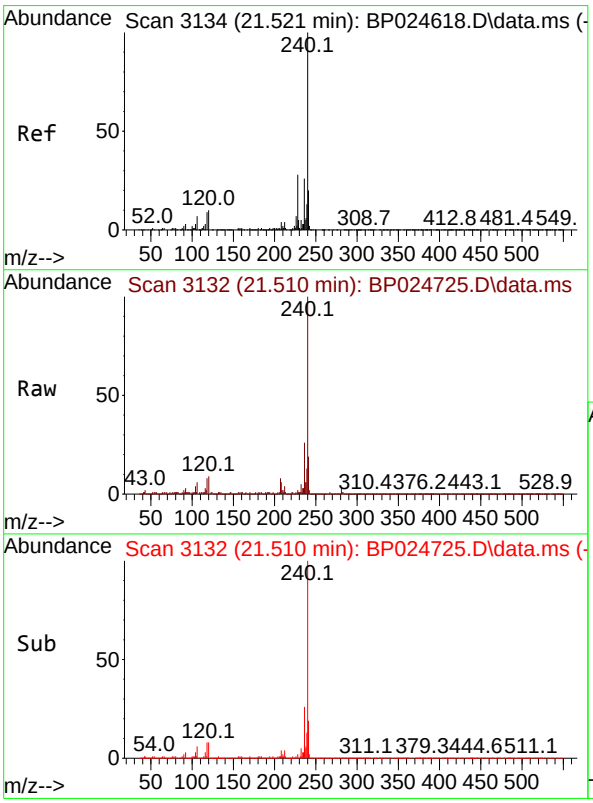
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.080 min Scan# 2
Delta R.T. -0.018 min
Lab File: BP024725.D
Acq: 21 May 2025 04:10

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725RX

Tgt Ion:188 Resp: 726572

Ion	Ratio	Lower	Upper
188	100		
94	7.4	6.5	9.7
80	8.0	7.3	10.9

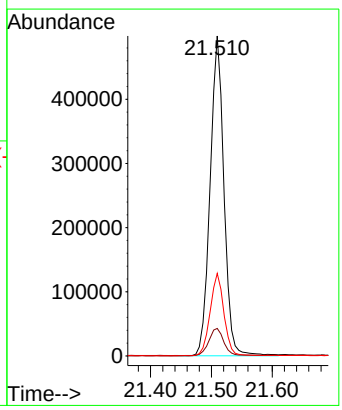


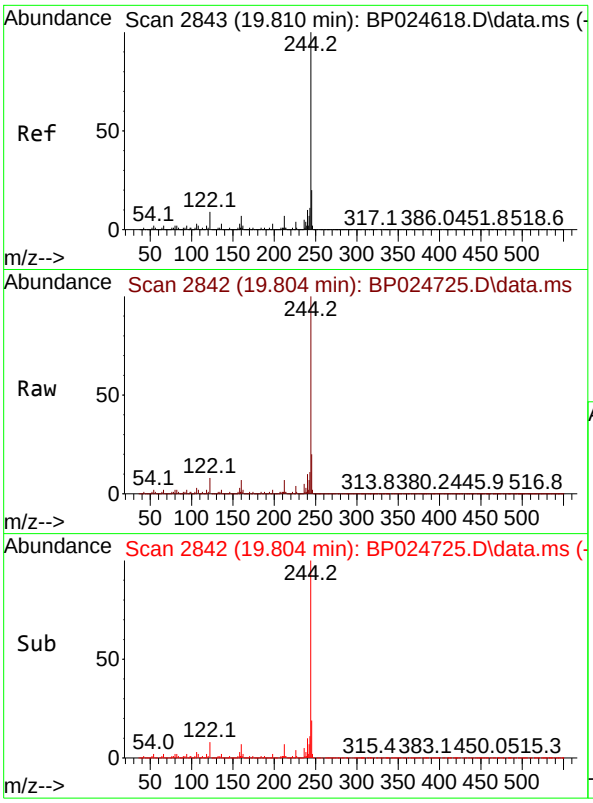


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.510 min Scan# 3132
Delta R.T. -0.012 min
Lab File: BP024725.D
Acq: 21 May 2025 04:10

Tgt Ion:240 Resp: 787708

Ion	Ratio	Lower	Upper
240	100		
120	8.6	7.8	11.6
236	25.8	20.6	31.0



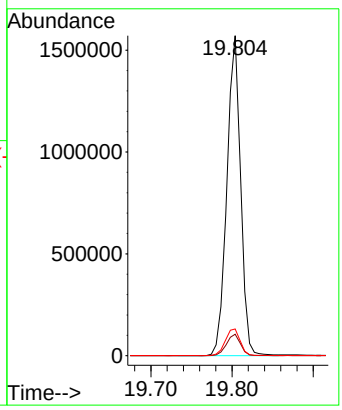


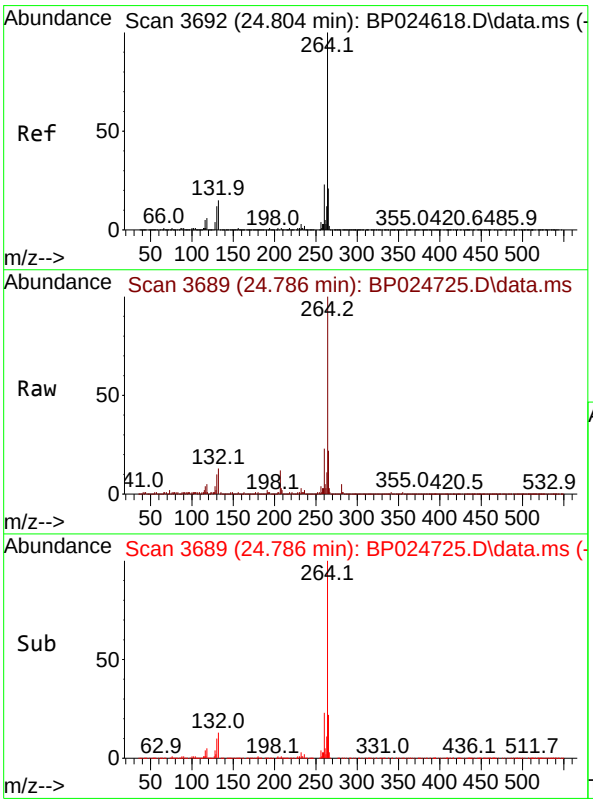
#79
Terphenyl-d14
Concen: 40.268 ng
RT: 19.804 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024725.D
Acq: 21 May 2025 04:10

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725RX

Tgt Ion:244 Resp: 1849860

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.5	8.3
122	8.4	7.4	11.0

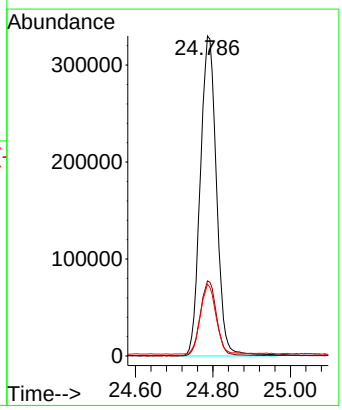




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.786 min Scan# 3689
Delta R.T. -0.018 min
Lab File: BP024725.D
Acq: 21 May 2025 04:10

Tgt Ion:264 Resp: 957235

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.7	28.1
265	22.4	17.0	25.6



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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-28-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-15	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	64.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024646.D	1	05/13/25 09:05	05/15/25 20:45	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.20	U	0.035	0.20	0.26	mg/Kg
91-57-6	2-Methylnaphthalene	0.20	U	0.040	0.20	0.26	mg/Kg
208-96-8	Acenaphthylene	0.20	U	0.045	0.20	0.26	mg/Kg
83-32-9	Acenaphthene	0.20	U	0.033	0.20	0.26	mg/Kg
86-73-7	Fluorene	0.20	U	0.039	0.20	0.26	mg/Kg
85-01-8	Phenanthrene	0.20	U	0.032	0.20	0.26	mg/Kg
120-12-7	Anthracene	0.20	U	0.052	0.20	0.26	mg/Kg
206-44-0	Fluoranthene	0.20	U	0.046	0.20	0.26	mg/Kg
129-00-0	Pyrene	0.20	U	0.056	0.20	0.26	mg/Kg
56-55-3	Benzo(a)anthracene	0.20	U	0.036	0.20	0.26	mg/Kg
218-01-9	Chrysene	0.20	U	0.031	0.20	0.26	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.20	U	0.029	0.20	0.26	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.20	U	0.035	0.20	0.26	mg/Kg
50-32-8	Benzo(a)pyrene	0.20	U	0.046	0.20	0.26	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.20	U	0.045	0.20	0.26	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.20	U	0.042	0.20	0.26	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.20	U	0.040	0.20	0.26	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	51.3		37 - 122		51%	SPK: 100
321-60-8	2-Fluorobiphenyl	44.6		44 - 115		45%	SPK: 100
1718-51-0	Terphenyl-d14	43.8	*	54 - 127		44%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	238000	7.658				
1146-65-2	Naphthalene-d8	987000	10.428				
15067-26-2	Acenaphthene-d10	607000	14.293				
1517-22-2	Phenanthrene-d10	1030000	17.092				
1719-03-5	Chrysene-d12	847000	21.527				
1520-96-3	Perylene-d12	1080000	24.81				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/07/25
Project:	Raymark Superfund Site	Date Received:	05/08/25
Client Sample ID:	OU4-TS-28-050725	SDG No.:	Q1984
Lab Sample ID:	Q1984-15	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	64.6
Sample Wt/Vol:	30.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024646.D	1	05/13/25 09:05	05/15/25 20:45	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
15972608	Alachlor	N.D					
82-68-8	Quintozine	N.D					

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_P\Data\BP051525\
Data File : BP024646.D
Acq On : 15 May 2025 20:45
Operator : RC/JU
Sample : Q1984-15
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-28-050725

Quant Time: May 16 01:18:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

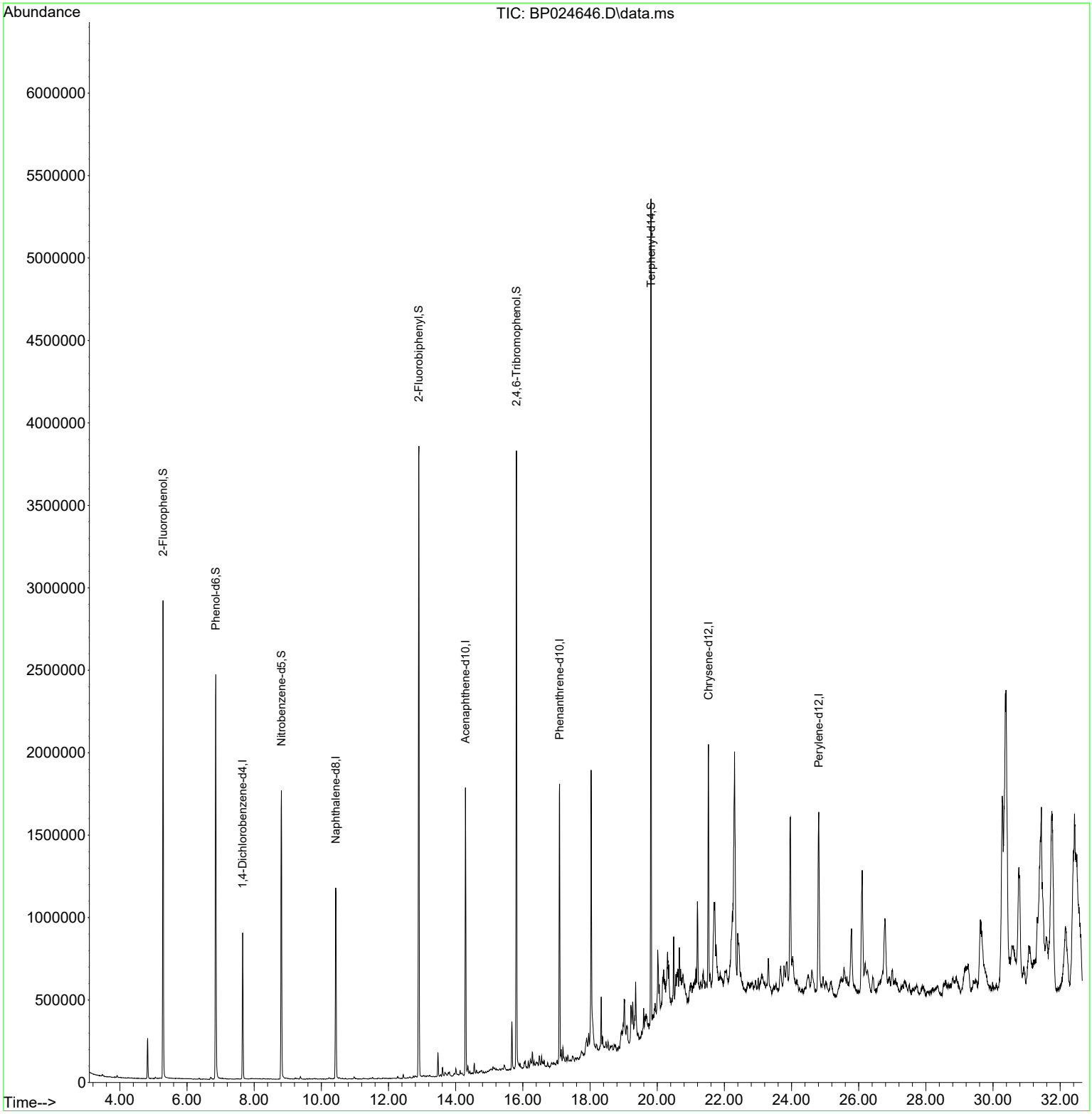
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	238077	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	986706	20.000	ng	0.00
39) Acenaphthene-d10	14.293	164	606578	20.000	ng	-0.01
64) Phenanthrene-d10	17.092	188	1027752	20.000	ng	0.00
76) Chrysene-d12	21.527	240	846507	20.000	ng	0.00
86) Perylene-d12	24.810	264	1082017	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	1241075	89.160	ng	0.00
7) Phenol-d6	6.858	99	1448677	81.546	ng	0.00
23) Nitrobenzene-d5	8.810	82	1001600	51.289	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	798210	77.622	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	2066705	44.638	ng	0.00
79) Terphenyl-d14	19.816	244	2164640	43.847	ng	0.00
Target Compounds						Qvalue

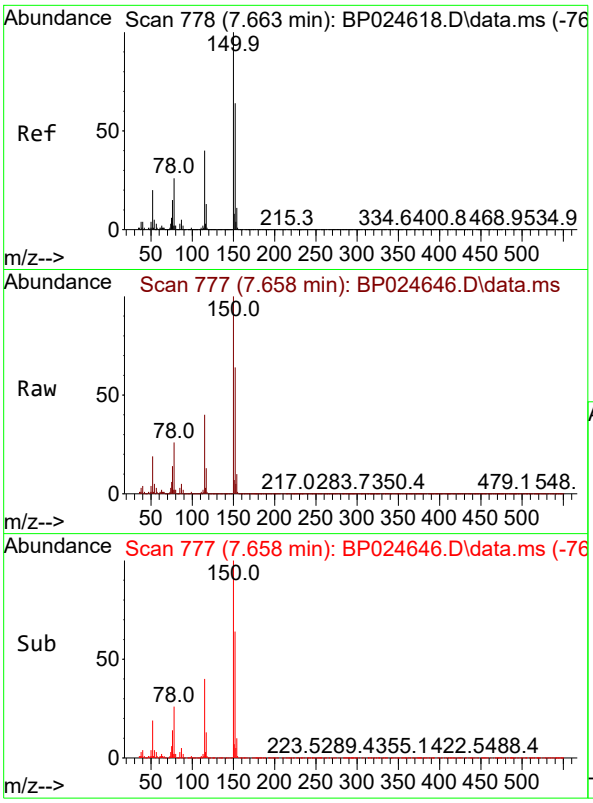
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024646.D
Acq On : 15 May 2025 20:45
Operator : RC/JU
Sample : Q1984-15
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-28-050725

Quant Time: May 16 01:18:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



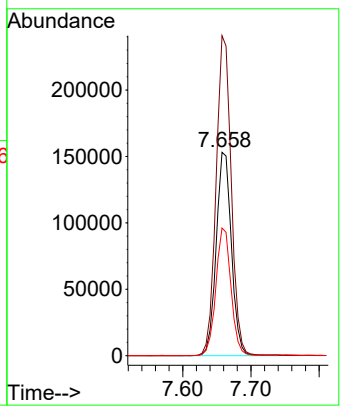


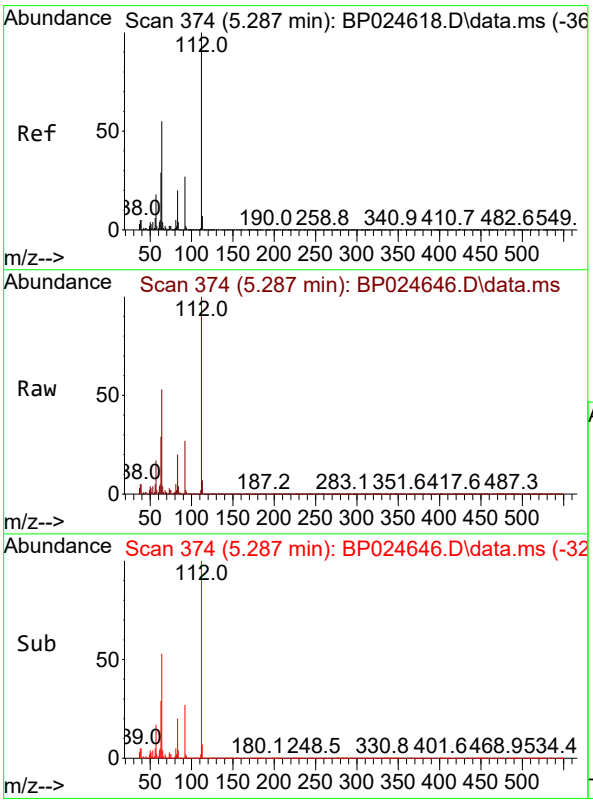
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.658 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024646.D
Acq: 15 May 2025 20:45

Instrument :
BNA_P
ClientSampleId :
OU4-TS-28-050725

Tgt Ion:152 Resp: 238077

Ion	Ratio	Lower	Upper
152	100		
150	157.3	125.9	188.9
115	62.7	50.1	75.1

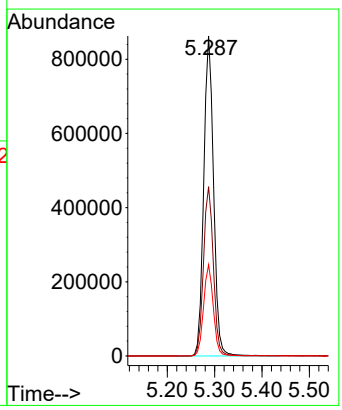


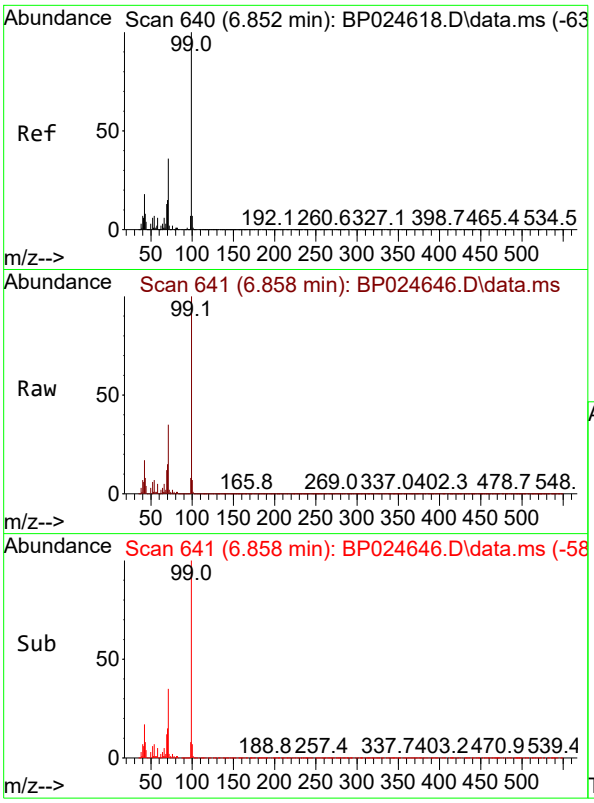


#5
2-Fluorophenol
Concen: 89.160 ng
RT: 5.287 min Scan# 374
Delta R.T. 0.000 min
Lab File: BP024646.D
Acq: 15 May 2025 20:45

Tgt Ion:112 Resp: 1241075

Ion	Ratio	Lower	Upper
112	100		
64	52.9	44.1	66.1
63	28.5	23.5	35.3



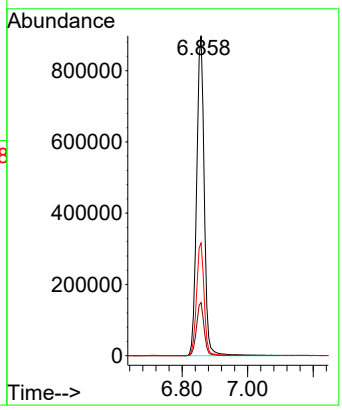


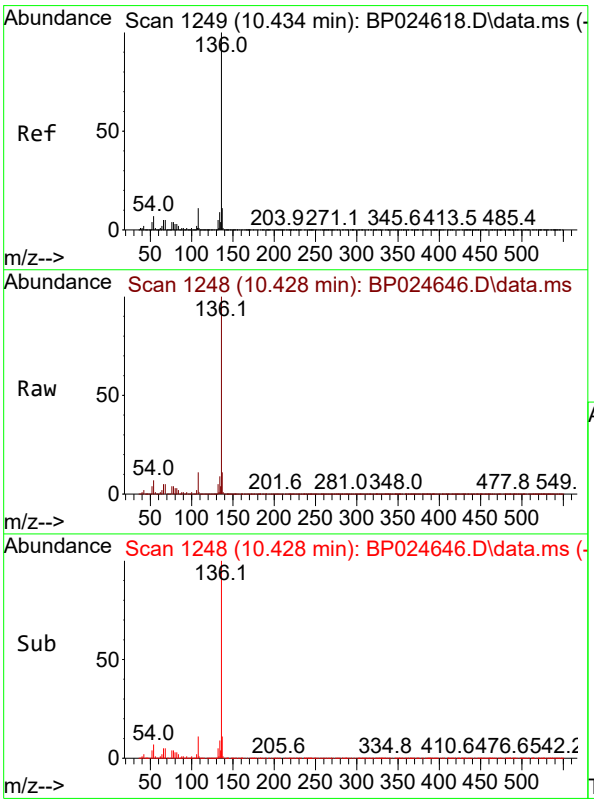
#7
Phenol-d6
Concen: 81.546 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024646.D
Acq: 15 May 2025 20:45

Instrument :
BNA_P
ClientSampleId :
OU4-TS-28-050725

Tgt Ion: 99 Resp: 1448677

Ion	Ratio	Lower	Upper
99	100		
42	16.6	14.4	21.6
71	35.2	29.2	43.8

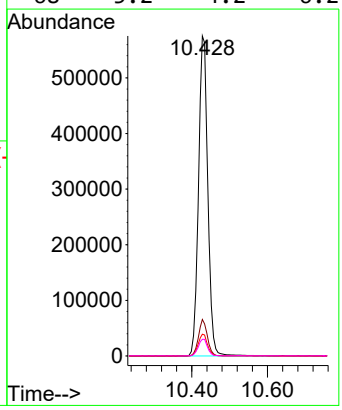


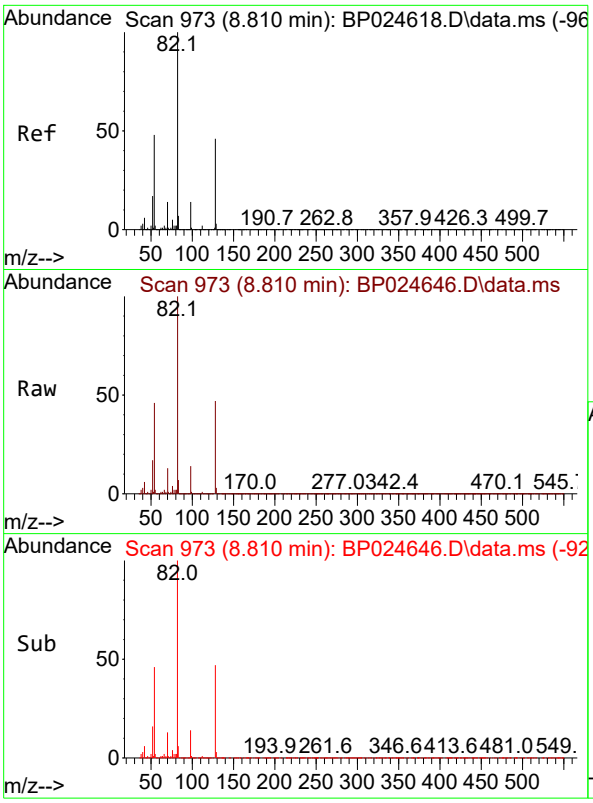


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.428 min Scan# 1248
Delta R.T. -0.006 min
Lab File: BP024646.D
Acq: 15 May 2025 20:45

Tgt Ion:136 Resp: 986706

Ion	Ratio	Lower	Upper
136	100		
137	11.4	8.8	13.2
54	6.8	5.5	8.3
68	5.2	4.2	6.2



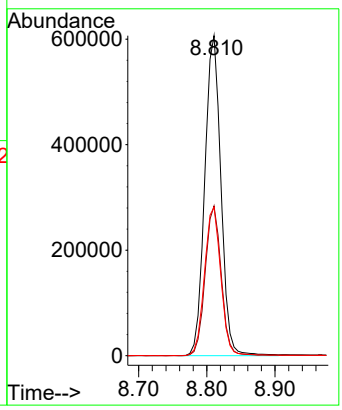


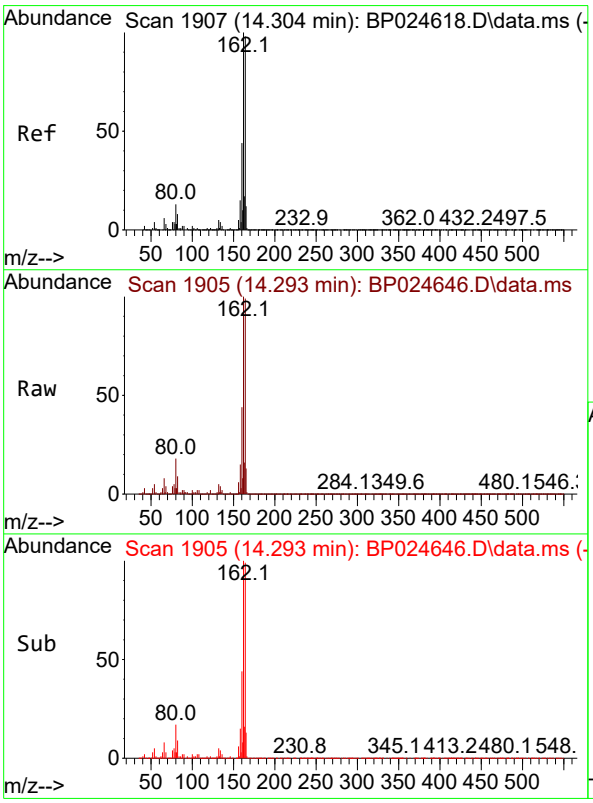
#23
Nitrobenzene-d5
Concen: 51.289 ng
RT: 8.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024646.D
Acq: 15 May 2025 20:45

Instrument :
BNA_P
ClientSampleId :
OU4-TS-28-050725

Tgt Ion: 82 Resp: 1001600

Ion	Ratio	Lower	Upper
82	100		
128	46.8	37.0	55.4
54	46.4	38.7	58.1

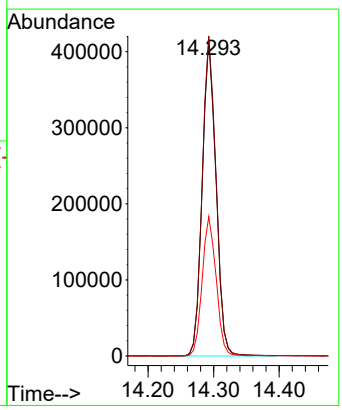


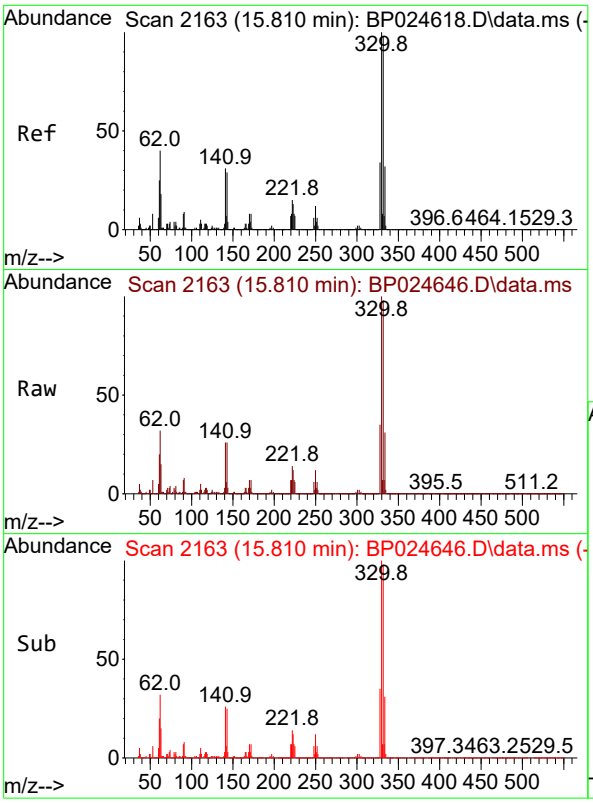


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.293 min Scan# 1905
Delta R.T. -0.012 min
Lab File: BP024646.D
Acq: 15 May 2025 20:45

Tgt Ion:164 Resp: 606578

Ion	Ratio	Lower	Upper
164	100		
162	101.1	81.8	122.6
160	44.0	36.3	54.5



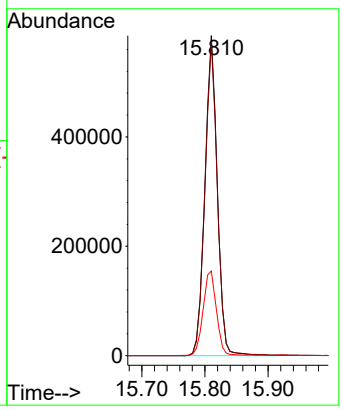


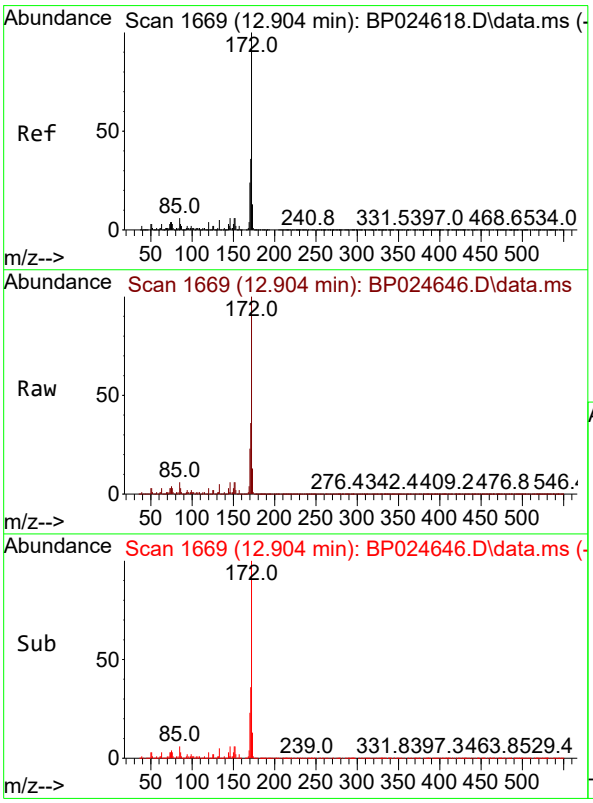
#42
2,4,6-Tribromophenol
Concen: 77.622 ng
RT: 15.810 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024646.D
Acq: 15 May 2025 20:45

Instrument :
BNA_P
ClientSampleId :
OU4-TS-28-050725

Tgt Ion:330 Resp: 798210

Ion	Ratio	Lower	Upper
330	100		
332	97.8	78.2	117.4
141	28.4	24.3	36.5

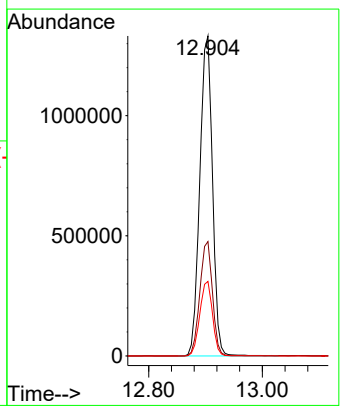


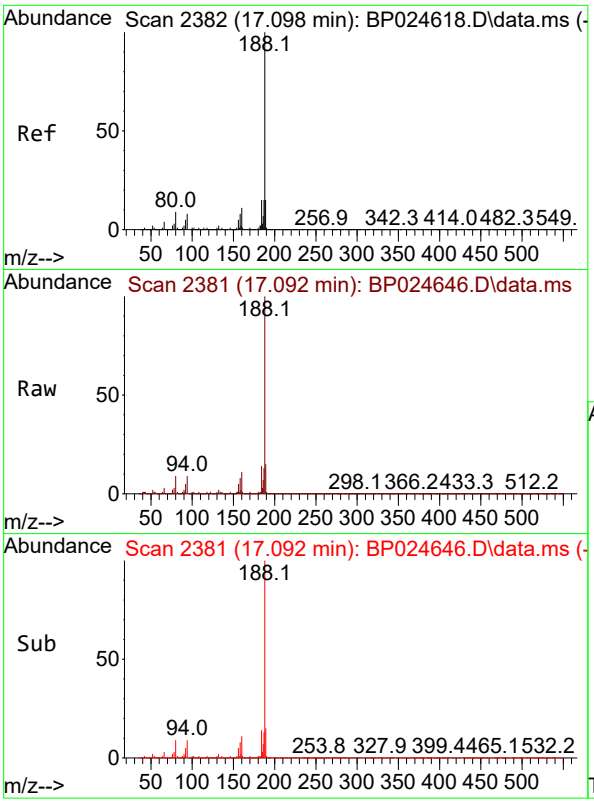


#45
2-Fluorobiphenyl
Concen: 44.638 ng
RT: 12.904 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BP024646.D
Acq: 15 May 2025 20:45

Tgt Ion:172 Resp: 2066705

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.8	43.2
170	23.3	18.8	28.2



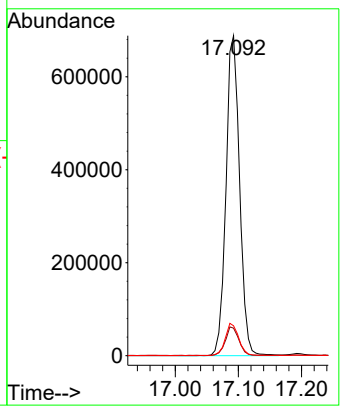


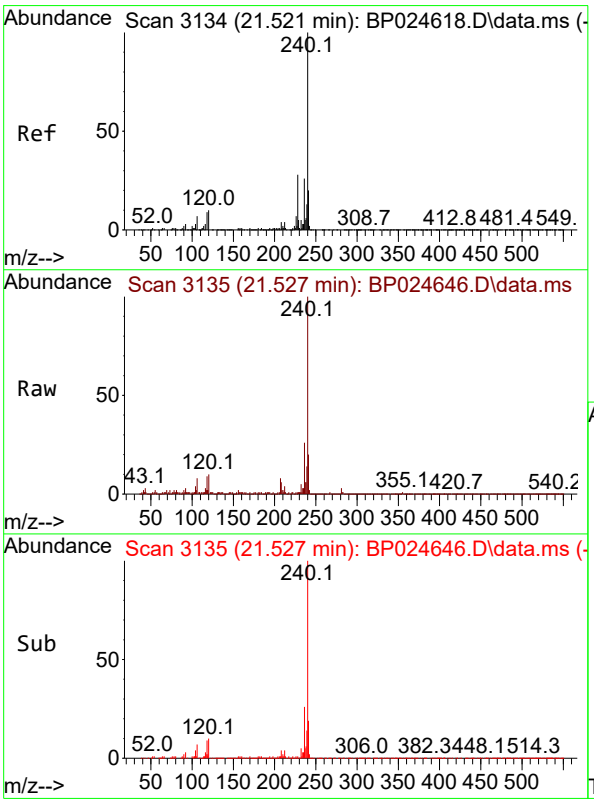
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.092 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024646.D
Acq: 15 May 2025 20:45

Instrument :
BNA_P
ClientSampleId :
OU4-TS-28-050725

Tgt Ion:188 Resp: 1027752

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.5	9.7
80	9.3	7.3	10.9

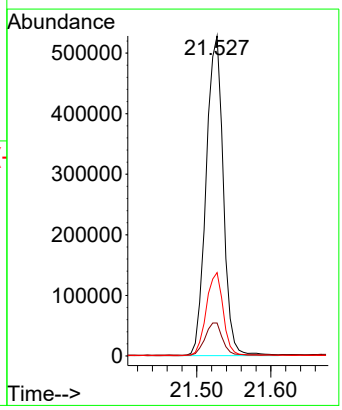


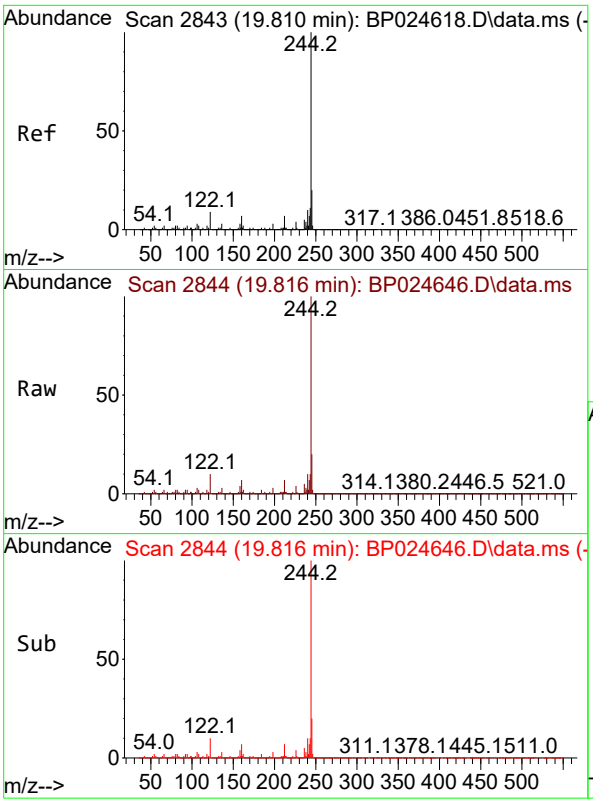


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.527 min Scan# 3135
Delta R.T. 0.006 min
Lab File: BP024646.D
Acq: 15 May 2025 20:45

Tgt Ion:240 Resp: 846507

Ion	Ratio	Lower	Upper
240	100		
120	10.3	7.8	11.6
236	26.1	20.6	31.0



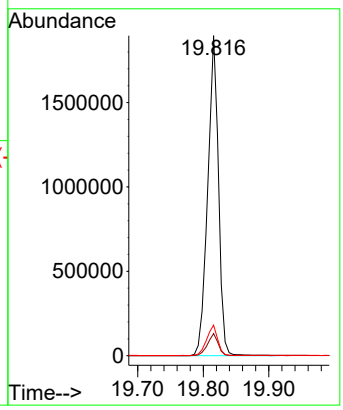


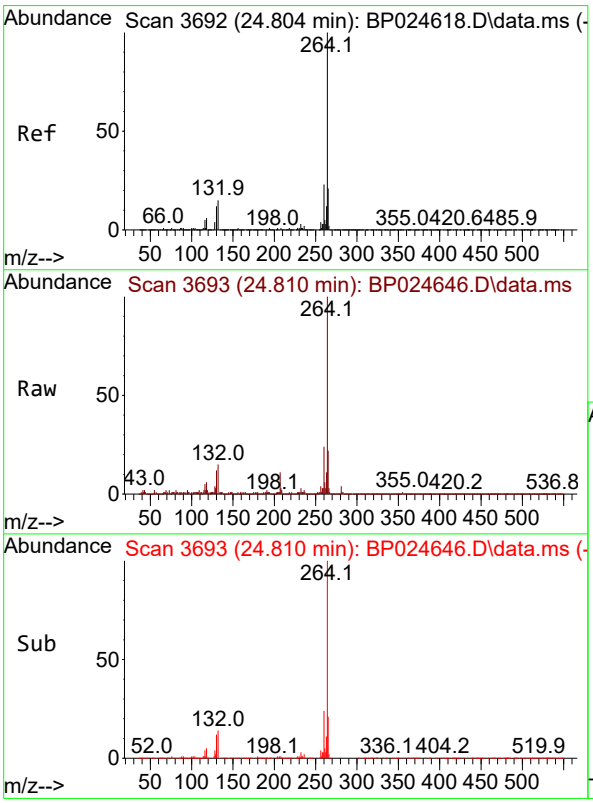
#79
Terphenyl-d14
Concen: 43.847 ng
RT: 19.816 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024646.D
Acq: 15 May 2025 20:45

Instrument :
BNA_P
ClientSampleId :
OU4-TS-28-050725

Tgt Ion:244 Resp: 2164640

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.5	8.3
122	9.6	7.4	11.0

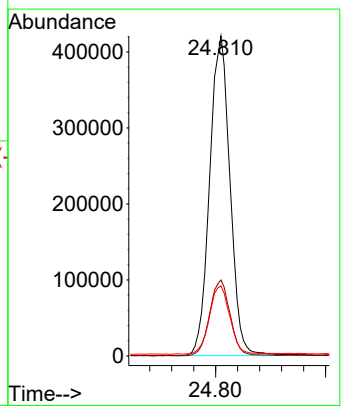




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.810 min Scan# 3693
Delta R.T. 0.006 min
Lab File: BP024646.D
Acq: 15 May 2025 20:45

Tgt Ion:264 Resp: 1082017

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.7	28.1
265	21.9	17.0	25.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024646.D
Acq On : 15 May 2025 20:45
Operator : RC/JU
Sample : Q1984-15
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-28-050725

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024646.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.828	290	296	305	rBV	243743	339898	5.65%	0.501%
2	5.287	367	374	394	rBV	2897987	4152704	69.05%	6.119%
3	6.858	630	641	656	rBV	2453972	3985694	66.28%	5.873%
4	7.658	770	777	786	rBV	885549	1367677	22.74%	2.015%
5	8.810	965	973	990	rBV	1750202	2921806	48.59%	4.305%
6	10.428	1241	1248	1262	rBV	1156157	1962380	32.63%	2.891%
7	12.904	1660	1669	1679	rBV	3826558	6013713	100.00%	8.861%
8	13.469	1759	1765	1773	rBV2	146893	227674	3.79%	0.335%
9	13.610	1783	1789	1797	rBV2	54531	98759	1.64%	0.146%
10	14.293	1898	1905	1913	rBV	1744562	2609818	43.40%	3.845%
11	14.363	1913	1917	1923	rVB3	46002	80968	1.35%	0.119%
12	14.551	1944	1949	1957	rBV4	62985	110751	1.84%	0.163%
13	15.445	2097	2101	2111	rVB4	30770	76023	1.26%	0.112%
14	15.675	2135	2140	2147	rBV	289338	423438	7.04%	0.624%
15	15.810	2156	2163	2176	rBV	3735769	5275712	87.73%	7.773%
16	16.228	2230	2234	2238	rVV2	44025	79476	1.32%	0.117%
17	16.281	2240	2243	2248	rVB2	81342	122682	2.04%	0.181%
18	16.492	2275	2279	2286	rBV4	56853	99243	1.65%	0.146%
19	17.092	2374	2381	2386	rBV2	1693690	2566732	42.68%	3.782%
20	17.139	2386	2389	2394	rVB2	69384	95723	1.59%	0.141%
21	17.192	2395	2398	2402	rBV2	78425	97814	1.63%	0.144%
22	17.963	2525	2529	2533	rBV3	72573	103812	1.73%	0.153%
23	18.034	2533	2541	2560	rVB	1676157	2820526	46.90%	4.156%
24	18.333	2588	2592	2596	rBV2	298138	372024	6.19%	0.548%
25	18.369	2596	2598	2606	rVB7	68992	108371	1.80%	0.160%
26	18.933	2686	2694	2698	rBV7	102649	302951	5.04%	0.446%
27	19.016	2704	2708	2717	rVB6	214357	421460	7.01%	0.621%
28	19.216	2739	2742	2748	rBV	198581	424601	7.06%	0.626%
29	19.269	2748	2751	2756	rVB4	172308	288085	4.79%	0.424%
30	19.357	2763	2766	2774	rVB2	314848	511998	8.51%	0.754%
31	19.598	2804	2807	2810	rBV	119833	135498	2.25%	0.200%
32	19.816	2838	2844	2849	rBV	5010649	5690547	94.63%	8.385%
33	20.016	2876	2878	2884	rVB3	265917	368808	6.13%	0.543%
34	20.163	2900	2903	2904	rBV2	152041	162048	2.69%	0.239%
35	20.492	2955	2959	2963	rVB2	379369	519962	8.65%	0.766%
36	20.657	2984	2987	2992	rBV	238001	356170	5.92%	0.525%

Sample Results: **BP024646.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024646.D
Acq On : 15 May 2025 20:45
Operator : RC/JU
Sample : Q1984-15
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-28-050725

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

37	21.198	3075	3079	3088	rVB	520840	871245	14.49%	1.284%
38	21.527	3129	3135	3140	rBV	1458011	2328675	38.72%	3.431%
39	22.304	3260	3267	3279	rVB2	1356117	3964135	65.92%	5.841%
40	22.398	3280	3283	3287	rBV	212654	387151	6.44%	0.570%
41	23.968	3542	3550	3555	rBV2	958726	2230062	37.08%	3.286%
42	24.810	3686	3693	3703	rVB	1053569	2622361	43.61%	3.864%
43	26.104	3905	3913	3921	rVB	637206	1728986	28.75%	2.548%
44	30.274	4613	4622	4623	rBV	968785	1979663	32.92%	2.917%
45	31.750	4867	4873	4894	rVB4	1087963	5128267	85.28%	7.556%
46	32.386	4972	4981	4982	rBV	657540	1332259	22.15%	1.963%

Sum of corrected areas: 67868350

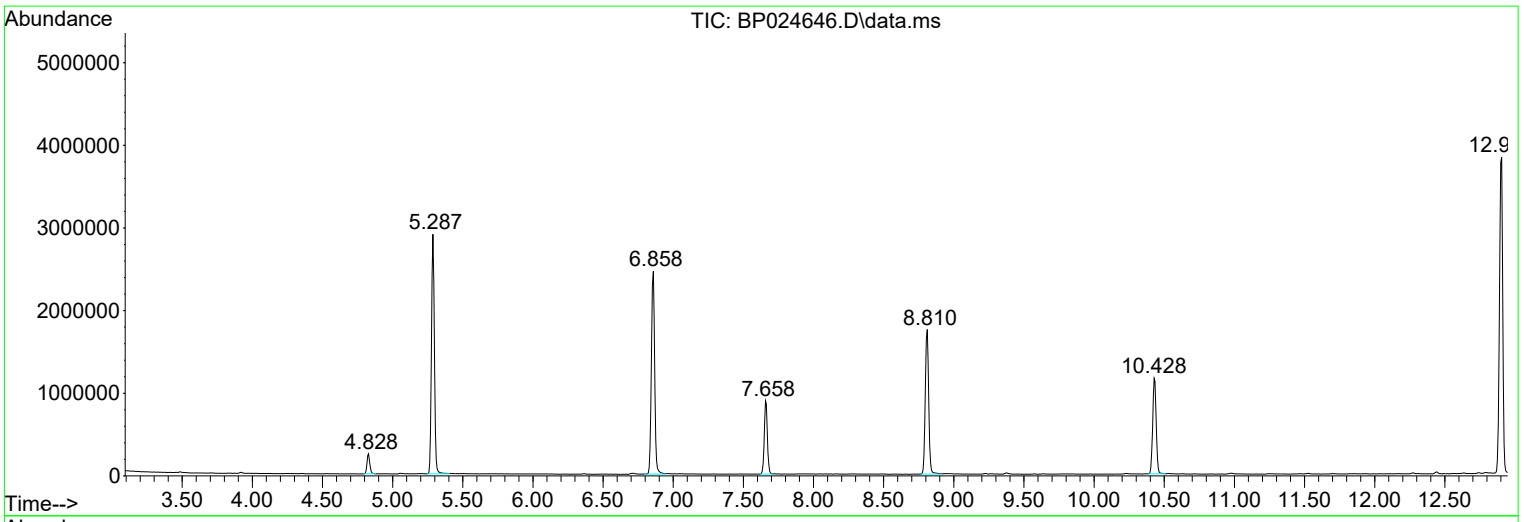
Sample Results: **BP024646.D**

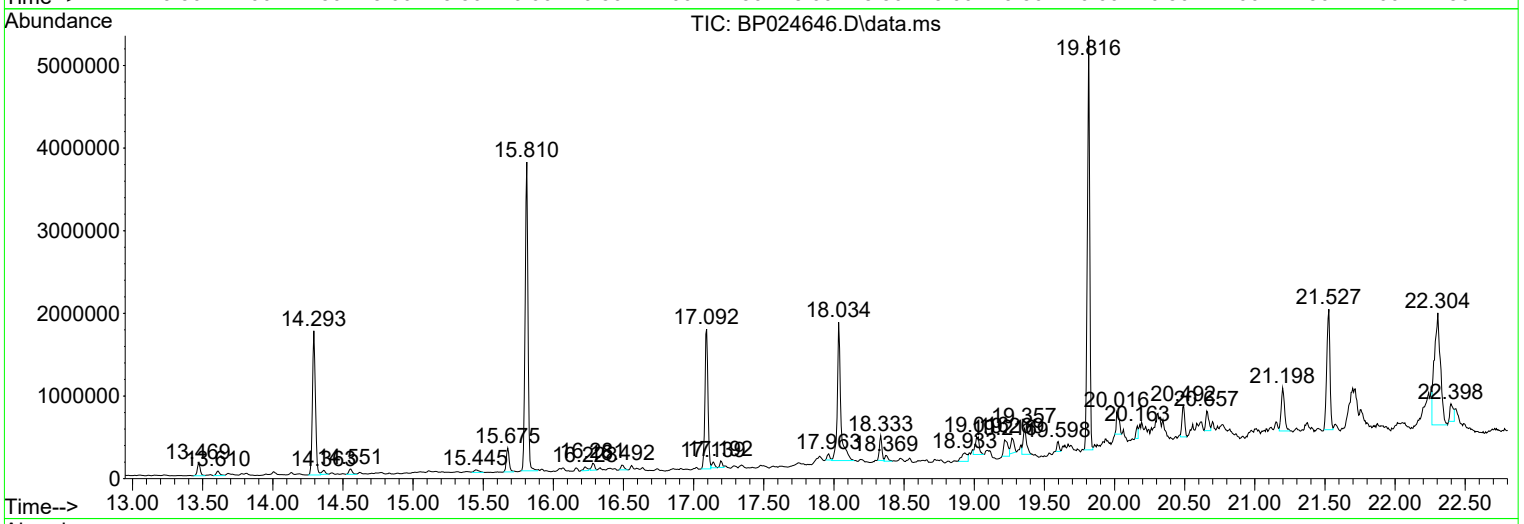
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024646.D
Acq On : 15 May 2025 20:45
Operator : RC/JU
Sample : Q1984-15
Misc :
ALS Vial : 14 Sample Multiplier: 1

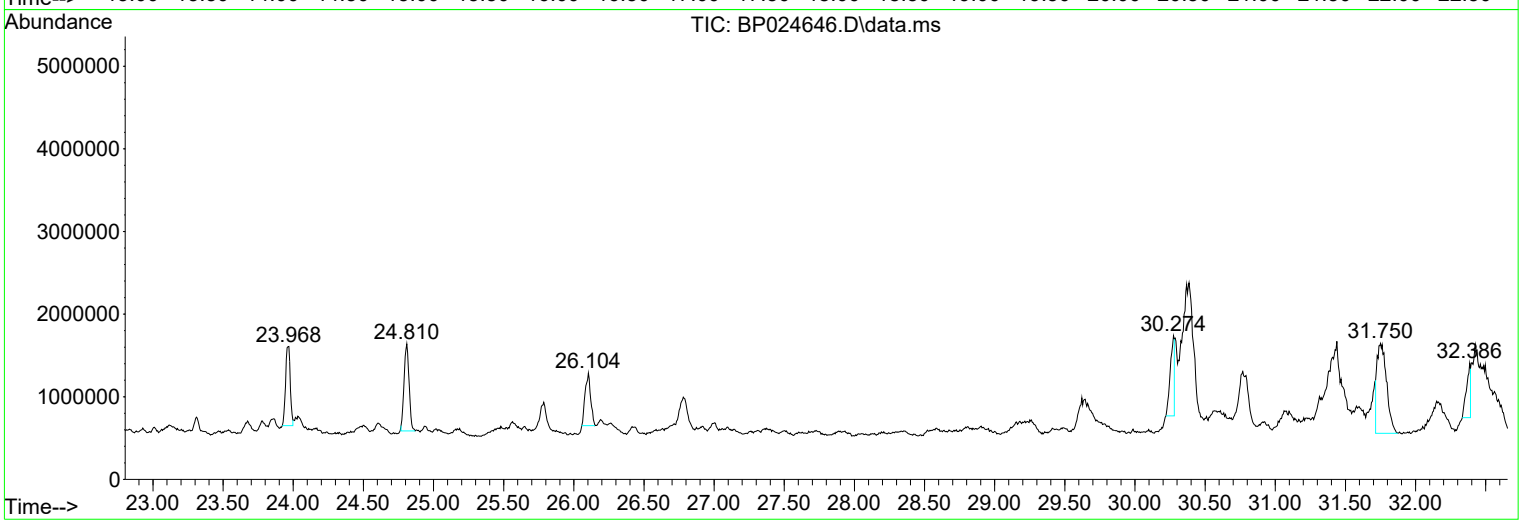
Instrument :
BNA_P
ClientSampleId :
OU4-TS-28-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024646.D
Acq On : 15 May 2025 20:45
Operator : RC/JU
Sample : Q1984-15
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-28-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

No Library Search Compounds Detected
****

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024646.D
Acq On : 15 May 2025 20:45
Operator : RC/JU
Sample : Q1984-15
Misc :
ALS Vial : 14 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-28-050725

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc

CALIBRATION SUMMARY

Response Factor Report MSBNA_P

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 13 16:21:39 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BP024614.D 5 =BP024615.D 10 =BP024616.D 20 =BP024617.D 40 =BP024618.D 50 =BP024619.D 60 =BP024620.D 80 =BP0246
21.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.641	0.557	0.535	0.505	0.562	0.530	0.513	0.549	8.31
3)		Pyridine		1.054	1.135	1.202	1.198	1.363	1.307	1.263	1.218	8.57
4)		n-Nitrosodimet...		0.536	0.507	0.527	0.517	0.580	0.557	0.537	0.538	4.61
5)	S	2-Fluorophenol		1.134	1.096	1.162	1.105	1.272	1.223	1.193	1.169	5.50
6)		Aniline		1.717	1.703	1.932	1.917	2.130	2.091	1.999	1.927	8.67
7)	S	Phenol-d6		1.301	1.344	1.486	1.472	1.671	1.620	1.552	1.492	9.09
8)		2-Chlorophenol		1.200	1.204	1.311	1.303	1.465	1.433	1.376	1.327	7.83
9)		Benzaldehyde		0.991	1.008	1.046	0.955	1.043	0.954	0.766	0.966	9.91
10)	C	Phenol		1.373	1.401	1.526	1.509	1.707	1.670	1.597	1.540	8.24
11)		bis(2-Chloroet...		1.317	1.170	1.257	1.213	1.357	1.299	1.247	1.266	5.04
12)		1,3-Dichlorobe...		1.596	1.487	1.520	1.440	1.622	1.546	1.480	1.527	4.29
13)	C	1,4-Dichlorobe...		1.558	1.505	1.525	1.470	1.637	1.567	1.491	1.536	3.67
14)		1,2-Dichlorobe...		1.530	1.467	1.498	1.426	1.579	1.529	1.449	1.497	3.56
15)		Benzyl Alcohol		0.883	0.950	1.128	1.149	1.306	1.288	1.236	1.134	14.43
16)		2,2'-oxybis(1-...		1.543	1.445	1.520	1.467	1.617	1.564	1.454	1.516	4.22
17)		2-Methylphenol		0.966	0.949	1.105	1.099	1.246	1.213	1.154	1.105	10.30
18)		Hexachloroethane		0.606	0.591	0.582	0.551	0.623	0.597	0.570	0.589	4.04
19)	P	n-Nitroso-di-n...	0.880	0.977	0.967	1.086	1.048	1.142	1.132	1.026	1.032	8.63
20)		3+4-Methylphenols		1.221	1.302	1.503	1.515	1.702	1.692	1.584	1.503	12.21
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.486	0.481	0.511	0.483	0.534	0.512	0.491	0.500	3.97
23)	S	Nitrobenzene-d5		0.381	0.376	0.401	0.382	0.429	0.408	0.394	0.396	4.67
24)		Nitrobenzene		0.333	0.340	0.355	0.337	0.373	0.356	0.344	0.348	4.03
25)		Isophorone		0.644	0.640	0.695	0.673	0.753	0.721	0.682	0.687	5.91
26)	C	2-Nitrophenol		0.135	0.143	0.168	0.172	0.196	0.192	0.189	0.171	14.05
27)		2,4-Dimethylph...		0.273	0.279	0.300	0.298	0.329	0.318	0.309	0.301	6.60
28)		bis(2-Chloroet...		0.403	0.391	0.411	0.399	0.443	0.419	0.405	0.410	4.15
29)	C	2,4-Dichloroph...		0.250	0.258	0.290	0.291	0.327	0.316	0.309	0.292	9.96
30)		1,2,4-Trichlor...		0.346	0.322	0.327	0.306	0.347	0.329	0.323	0.329	4.33
31)		Naphthalene		1.064	1.026	1.049	0.980	1.091	1.037	1.007	1.036	3.54
32)		Benzoic acid			0.089	0.146	0.191	0.215	0.220	0.225	0.181	29.55
33)		4-Chloroaniline		0.348	0.371	0.420	0.418	0.465	0.462	0.442	0.418	10.62
34)	C	Hexachlorobuta...		0.231	0.214	0.211	0.198	0.222	0.209	0.206	0.213	5.08
35)		Caprolactam		0.082	0.092	0.104	0.109	0.121	0.121	0.110	0.106	13.80
36)	C	4-Chloro-3-met...		0.316	0.325	0.358	0.356	0.391	0.384	0.359	0.356	7.78
37)		2-Methylnaphth...		0.673	0.654	0.670	0.640	0.713	0.693	0.654	0.671	3.73
38)		1-Methylnaphth...		0.741	0.700	0.720	0.690	0.751	0.733	0.690	0.718	3.47

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP051325.M

39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.593	0.558	0.574	0.549	0.625	0.580	0.586	0.581	4.26
41)	P	Hexachlorocycl...	0.250	0.276	0.350	0.356	0.420	0.391	0.421	0.352	19.02
42)	S	2,4,6-Tribromo...	0.324	0.321	0.335	0.323	0.369	0.357	0.346	0.339	5.49
43)	C	2,4,6-Trichlor...	0.305	0.341	0.375	0.371	0.428	0.410	0.402	0.376	11.29
44)		2,4,5-Trichlor...	0.376	0.375	0.418	0.404	0.471	0.447	0.440	0.419	8.68
45)	S	2-Fluorobiphenyl	1.601	1.498	1.553	1.432	1.602	1.515	1.485	1.527	4.10
46)		1,1'-Biphenyl	1.524	1.434	1.492	1.383	1.586	1.473	1.456	1.478	4.40
47)		2-Chloronaphth...	1.147	1.106	1.131	1.065	1.196	1.132	1.113	1.127	3.56
48)		2-Nitroaniline	0.279	0.304	0.331	0.335	0.381	0.364	0.343	0.334	10.28
49)		Acenaphthylene	1.845	1.818	1.920	1.804	2.029	1.930	1.856	1.886	4.19
50)		Dimethylphthalate	1.570	1.527	1.518	1.450	1.611	1.535	1.460	1.524	3.73
51)		2,6-Dinitrotol...	0.299	0.308	0.326	0.312	0.354	0.337	0.319	0.322	5.75
52)	C	Acenaphthene	1.105	1.054	1.094	1.028	1.159	1.099	1.052	1.084	4.02
53)		3-Nitroaniline	0.258	0.275	0.329	0.340	0.379	0.370	0.350	0.329	14.04
54)	P	2,4-Dinitrophenol		0.098	0.143	0.172	0.201	0.201	0.201	0.169	24.79
55)		Dibenzofuran	1.810	1.716	1.740	1.633	1.816	1.733	1.658	1.730	4.00
56)	P	4-Nitrophenol		0.159	0.222	0.257	0.299	0.288	0.274	0.250	20.82
57)		2,4-Dinitrotol...	0.400	0.422	0.456	0.454	0.508	0.483	0.454	0.454	7.87
58)		Fluorene	1.466	1.415	1.410	1.336	1.494	1.410	1.341	1.410	4.14
59)		2,3,4,6-Tetrac...	0.367	0.364	0.381	0.379	0.428	0.406	0.394	0.388	5.89
60)		Diethylphthalate	1.593	1.542	1.537	1.444	1.639	1.563	1.468	1.541	4.40
61)		4-Chlorophenyl...	0.752	0.697	0.700	0.656	0.741	0.709	0.668	0.703	5.01
62)		4-Nitroaniline	0.228	0.259	0.326	0.330	0.375	0.363	0.341	0.317	17.06
63)		Azobenzene	1.327	1.299	1.356	1.250	1.407	1.343	1.243	1.318	4.45
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.094	0.120	0.129	0.149	0.143	0.141	0.129	15.64
66)	c	n-Nitrosodiphe...	0.603	0.589	0.627	0.593	0.667	0.621	0.600	0.614	4.41
67)		4-Bromophenyl-...	0.231	0.223	0.237	0.226	0.252	0.242	0.240	0.236	4.31
68)		Hexachlorobenzene	0.303	0.288	0.298	0.282	0.321	0.304	0.300	0.299	4.25
69)		Atrazine	0.210	0.209	0.227	0.218	0.248	0.237	0.226	0.225	6.32
70)	C	Pentachlorophenol	0.124	0.137	0.163	0.172	0.198	0.191	0.192	0.168	17.12
71)		Phenanthrene	1.144	1.085	1.125	1.051	1.170	1.125	1.083	1.112	3.68
72)		Anthracene	1.097	1.064	1.142	1.075	1.205	1.139	1.108	1.119	4.31
73)		Carbazole	0.923	0.944	1.039	1.001	1.114	1.053	1.013	1.012	6.43
74)		Di-n-butylphth...	1.182	1.218	1.332	1.260	1.447	1.363	1.313	1.302	6.97
75)	C	Fluoranthene	1.271	1.254	1.314	1.250	1.399	1.337	1.272	1.300	4.18
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.362	0.543	0.560	0.657	0.599	0.548	0.545	18.22
78)		Pyrene	1.184	1.137	1.197	1.153	1.273	1.222	1.223	1.198	3.85
79)	S	Terphenyl-d14	1.192	1.113	1.165	1.125	1.226	1.175	1.167	1.166	3.30
80)		Butylbenzylpht...	0.458	0.465	0.537	0.527	0.604	0.571	0.569	0.533	10.28
81)		Benzo(a)anthra...	1.251	1.218	1.253	1.208	1.336	1.275	1.250	1.256	3.36
82)		3,3'-Dichlorob...	0.357	0.392	0.474	0.477	0.539	0.511	0.514	0.466	14.45
83)		Chrysene	1.214	1.180	1.185	1.131	1.255	1.188	1.180	1.190	3.16
84)		Bis(2-ethylhex...	0.673	0.683	0.801	0.766	0.884	0.836	0.841	0.783	10.32
85)	c	Di-n-octyl pht...	1.048	1.116	1.272	1.280	1.458	1.376	1.417	1.281	11.95

Method Path : Z:\svoasrv\HPCHEM1\BNA_P\Methods\
Method File : 8270E-BP051325.M

86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.341	1.357	1.447	1.424	1.608	1.549	1.494	1.460	6.70
88)		Benzo(b)fluora...	1.028	1.070	1.152	1.103	1.288	1.184	1.189	1.145	7.58
89)		Benzo(k)fluora...	1.147	1.106	1.182	1.140	1.258	1.238	1.185	1.180	4.59
90)	C	Benzo(a)pyrene	0.995	1.001	1.112	1.064	1.221	1.167	1.136	1.099	7.68
91)		Dibenzo(a,h)an...	1.068	1.066	1.186	1.167	1.321	1.271	1.236	1.188	8.18
92)		Benzo(g,h,i)pe...	1.101	1.106	1.167	1.147	1.294	1.242	1.212	1.181	6.07

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024614.D
Acq On : 13 May 2025 10:41
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Quant Time: May 13 16:01:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

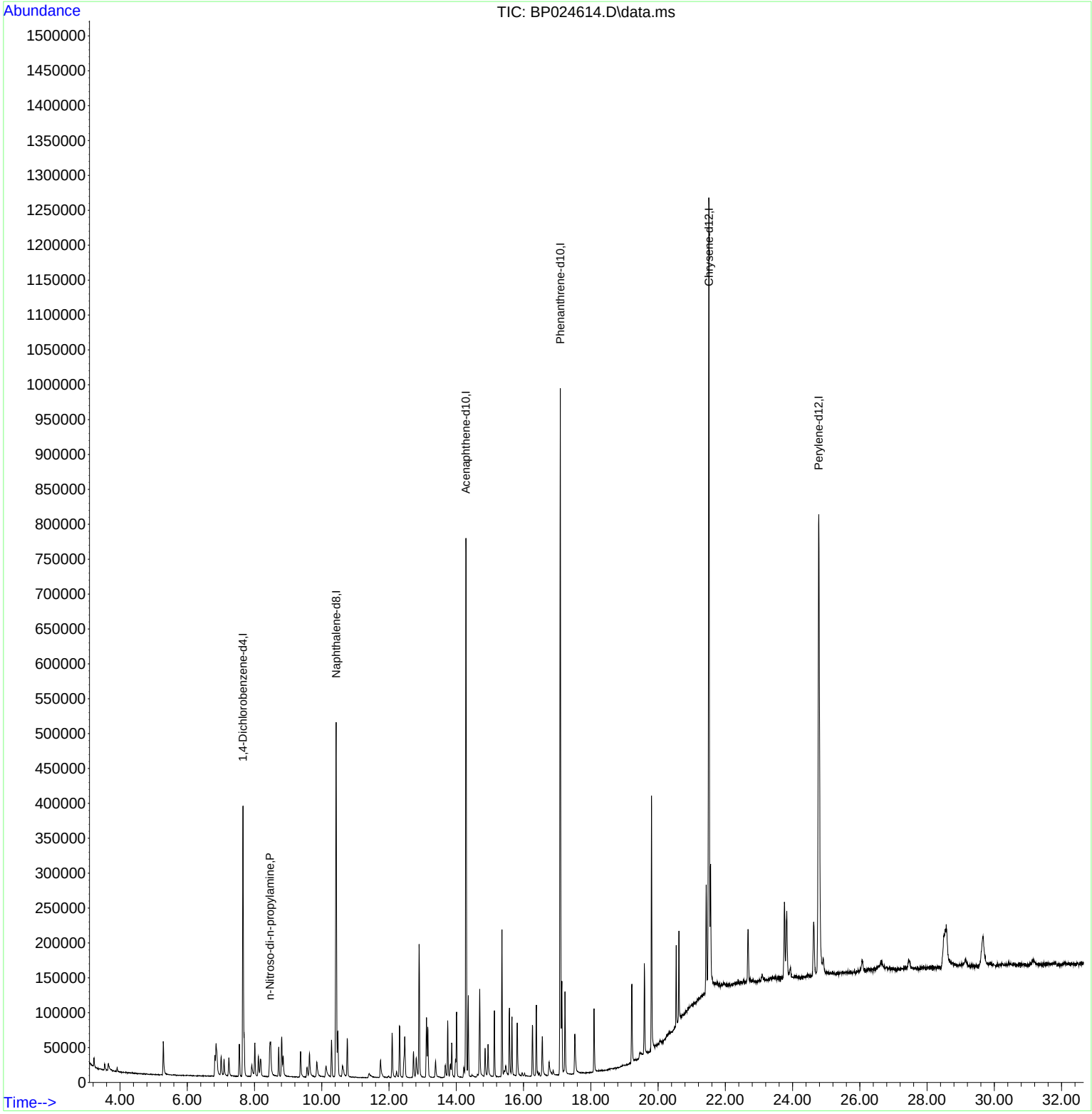
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	105461	20.00	ng	0.00
21) Naphthalene-d8	10.428	136	434352	20.00	ng	0.00
39) Acenaphthene-d10	14.287	164	287970	20.00	ng	-0.02
64) Phenanthrene-d10	17.092	188	596044	20.00	ng	0.00
76) Chrysene-d12	21.516	240	663028	20.00	ng	0.00
86) Perylene-d12	24.780	264	769627	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.00	ng	
7) Phenol-d6	0.000	99	0d	0.00	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.00	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.00	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.00	ng	
79) Terphenyl-d14	0.000	244	0d	0.00	ng	
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	8.458	70	11601	2.13	ng	96

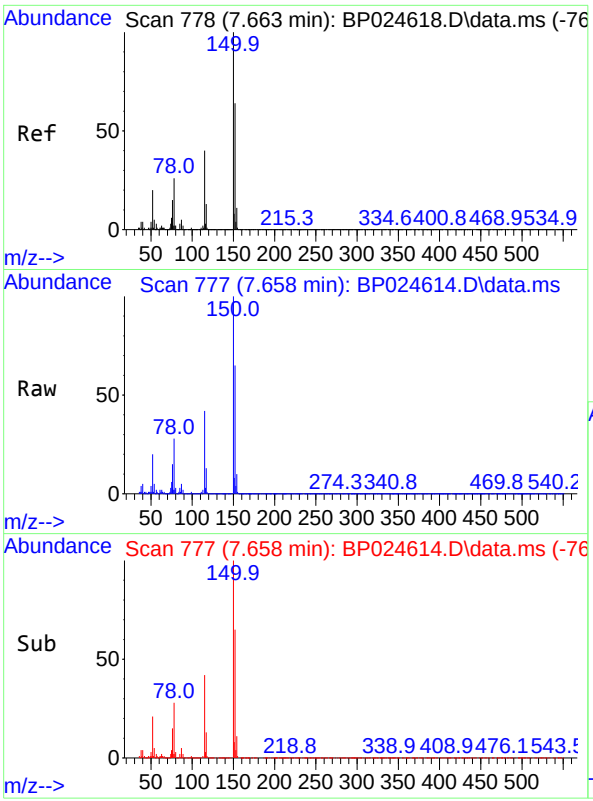
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024614.D
Acq On : 13 May 2025 10:41
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Quant Time: May 13 16:01:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration



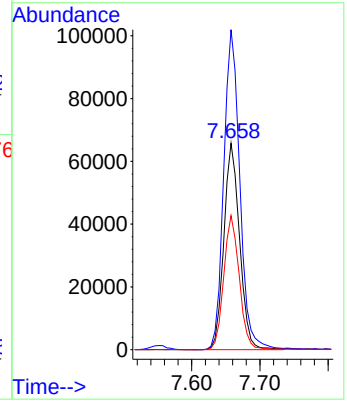


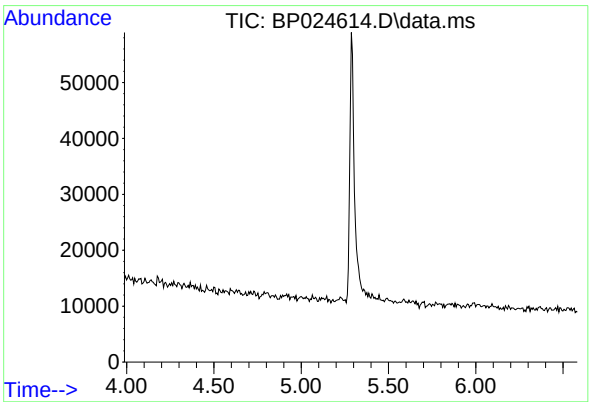
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.658 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024614.D
Acq: 13 May 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 105461

Ion	Ratio	Lower	Upper
152	100		
150	155.0	125.9	188.9
115	65.0	50.1	75.1



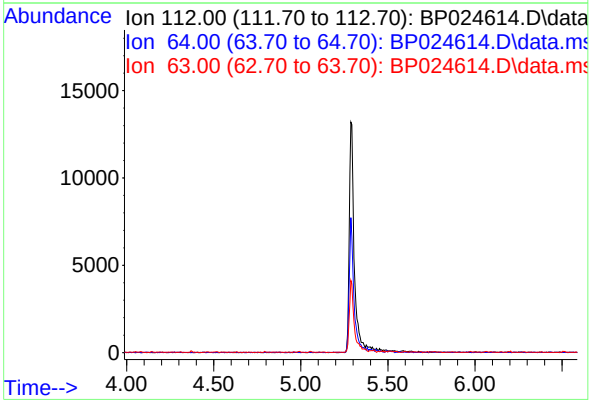


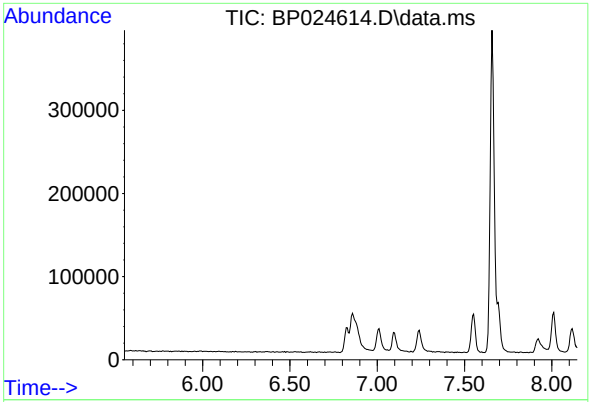
#5
2-Fluorophenol
Concen: 0.00 ng
Expected RT: 5.29 min

Lab File: BP024614.D
Acq: 13 May 2025 10:41

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	55.1
63	29.4





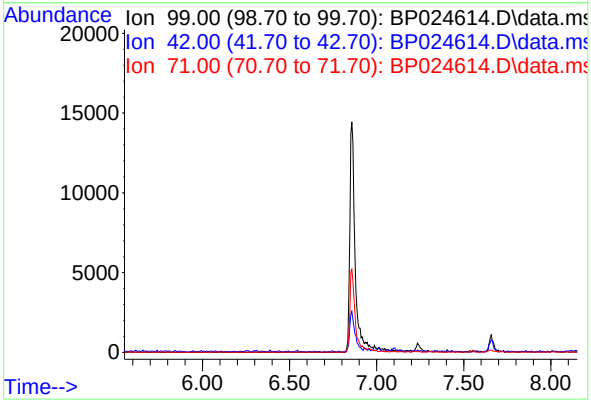
#7
Phenol-d6
Concen: 0.00 ng
Expected RT: 6.85 min

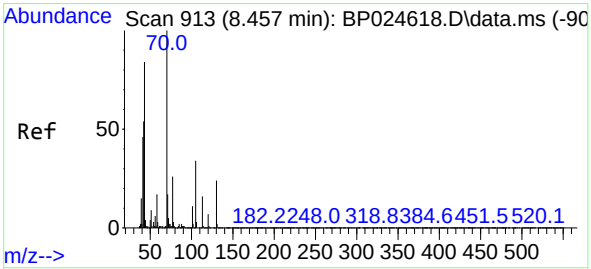
Lab File: BP024614.D
Acq: 13 May 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

Sig	Exp Ratio
99	100
42	18.0
71	36.5

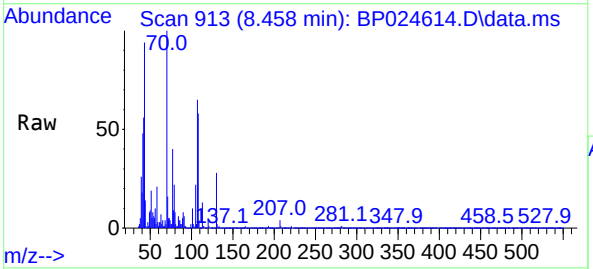


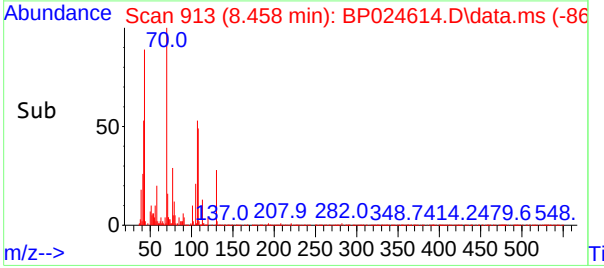


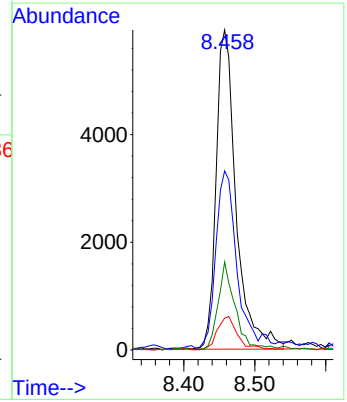
#19
n-Nitroso-di-n-propylamine
Concen: 2.13 ng
RT: 8.458 min Scan# 913
Delta R.T. 0.000 min
Lab File: BP024614.D
Acq: 13 May 2025 10:41

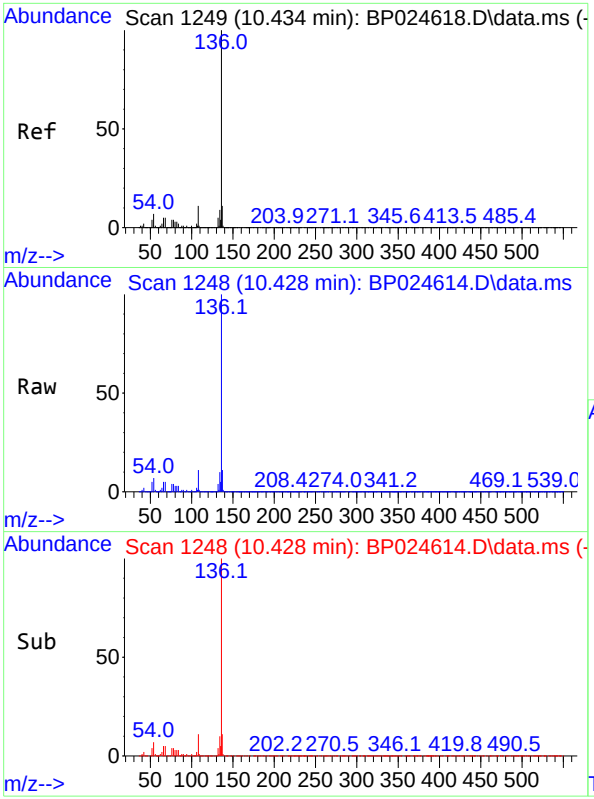
Tgt Ion: 70 Resp: 11601

Ion	Ratio	Lower	Upper
70	100		
42	56.0	43.0	64.6
101	10.0	8.7	13.1
130	27.5	19.4	29.0







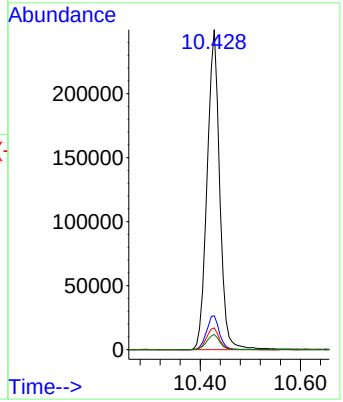


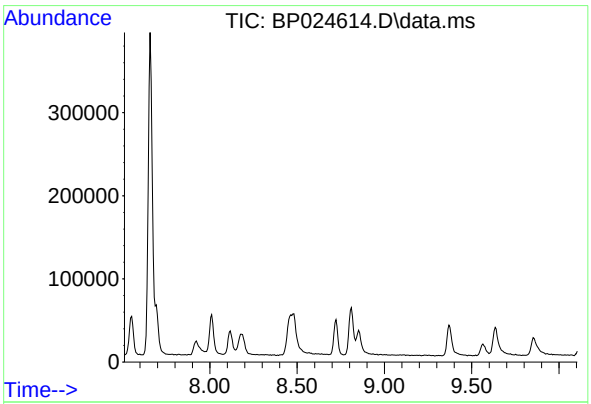
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024614.D
Acq: 13 May 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 434352

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	6.8	5.5	8.3
68	4.7	4.2	6.2



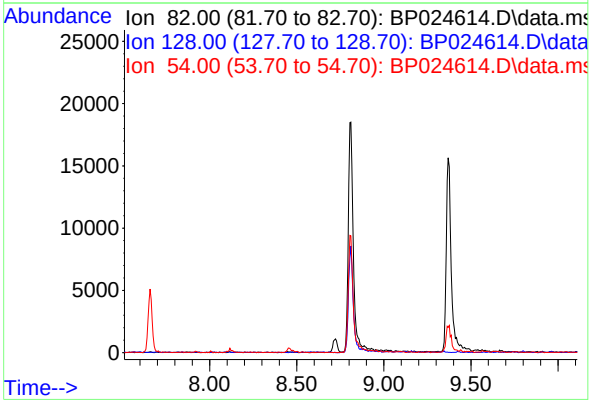


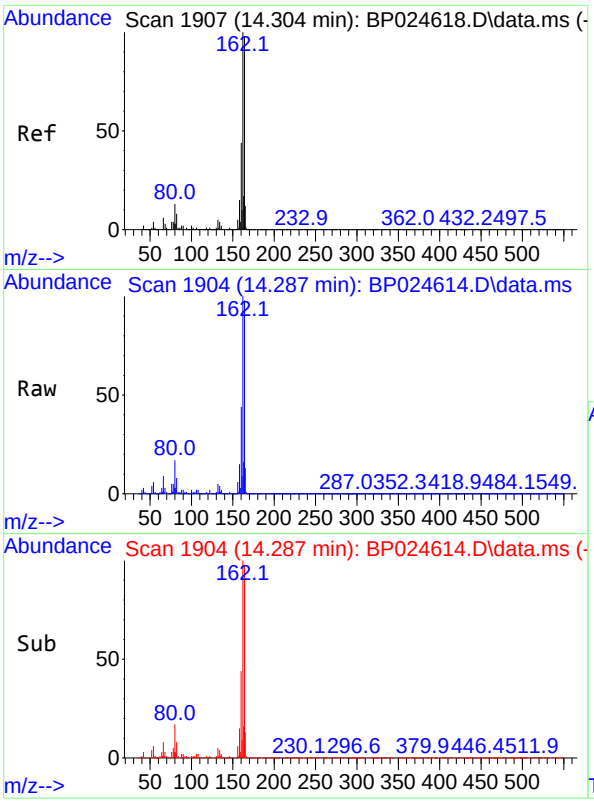
#23
Nitrobenzene-d5
Concen: 0.00 ng
Expected RT: 8.81 min

Lab File: BP024614.D
Acq: 13 May 2025 10:41

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	46.2
54	48.4



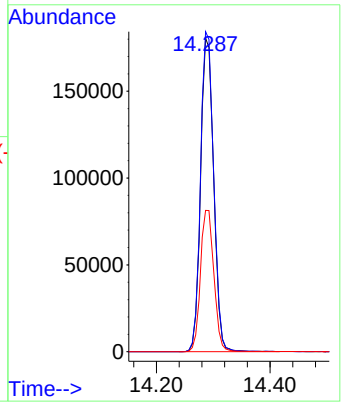


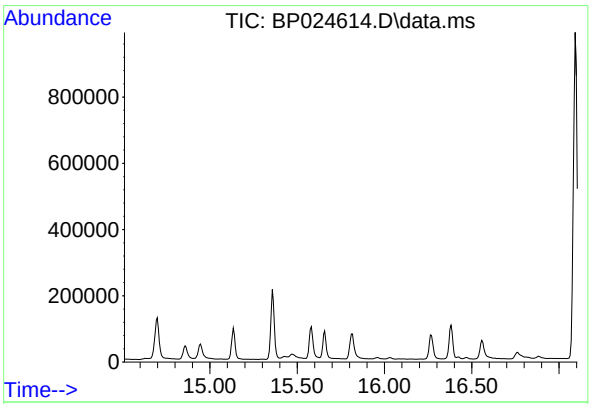
#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.287 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024614.D
Acq: 13 May 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 287970

Ion	Ratio	Lower	Upper
164	100		
162	102.1	81.8	122.6
160	45.1	36.3	54.5



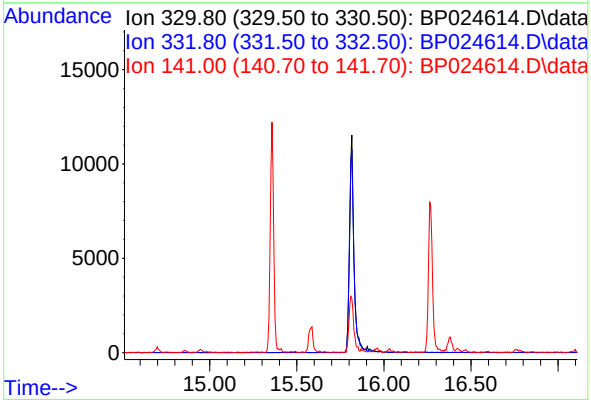


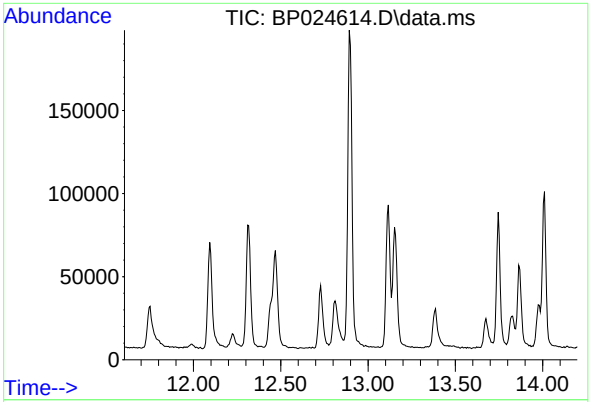
#42
2,4,6-Tribromophenol
Concen: 0.00 ng
Expected RT: 15.81 min

Lab File: BP024614.D
Acq: 13 May 2025 10:41

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	97.8
141	30.4





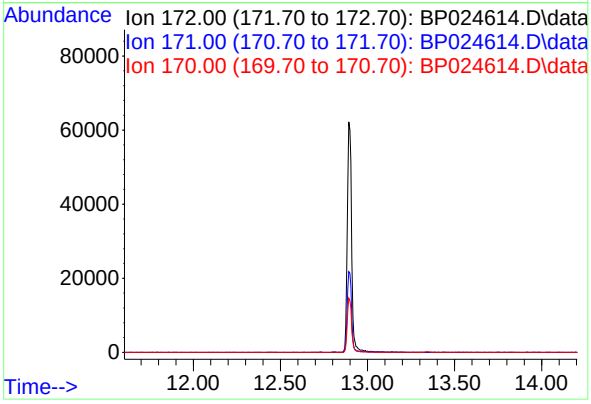
#45
2-Fluorobiphenyl
Concen: 0.00 ng
Expected RT: 12.90 min

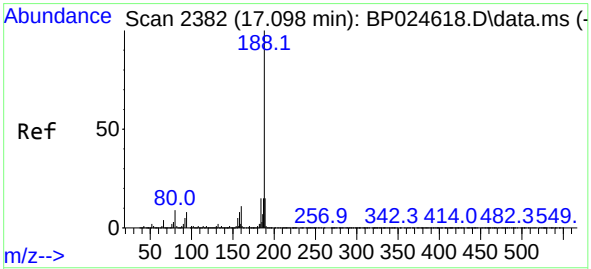
Lab File: BP024614.D
Acq: 13 May 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

Sig	Exp Ratio
172	100
171	36.0
170	23.5

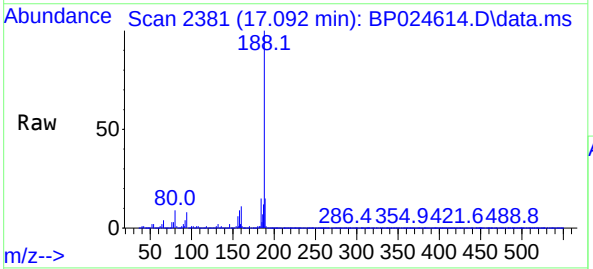


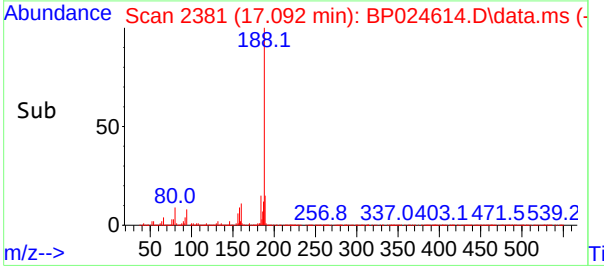


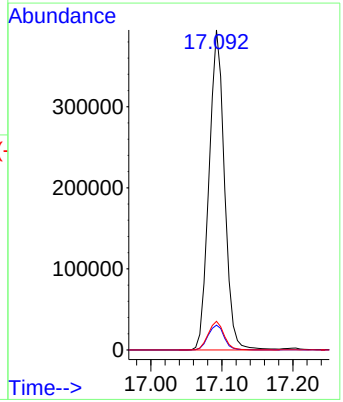
#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.092 min Scan# 2381
Delta R.T. -0.006 min
Lab File: BP024614.D
Acq: 13 May 2025 10:41

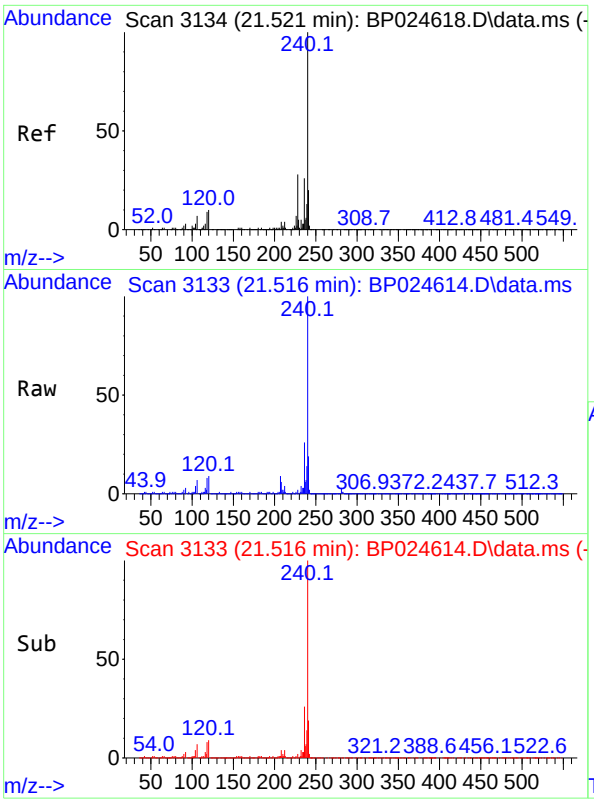
Tgt Ion:188 Resp: 596044

Ion	Ratio	Lower	Upper
188	100		
94	7.7	6.5	9.7
80	8.9	7.3	10.9







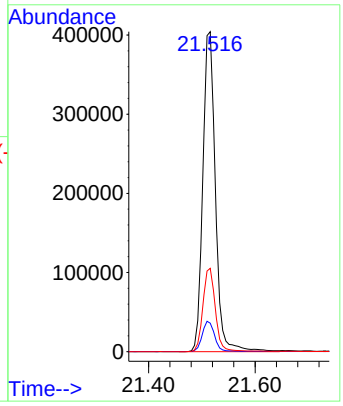


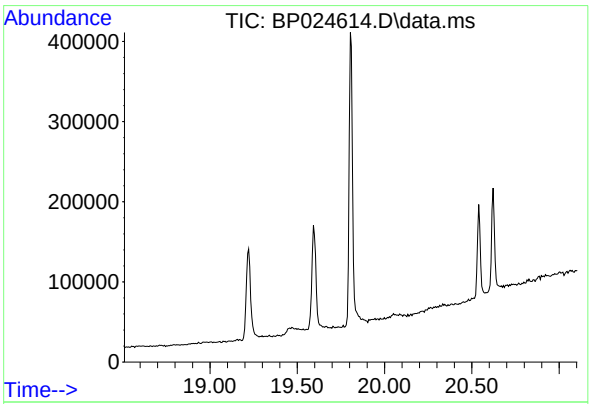
#76
Chrysene-d12
Concen: 20.00 ng
RT: 21.516 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024614.D
Acq: 13 May 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 663028

Ion	Ratio	Lower	Upper
240	100		
120	8.9	7.8	11.6
236	26.1	20.6	31.0



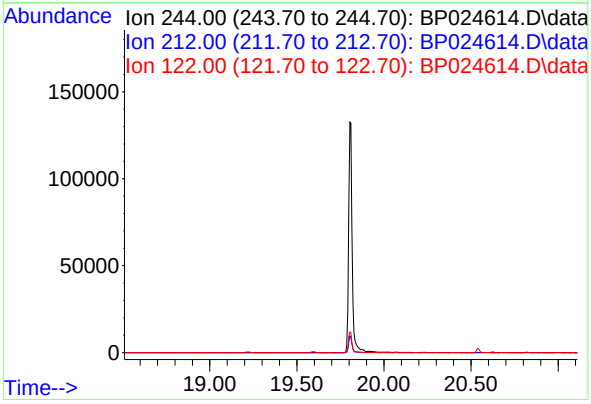


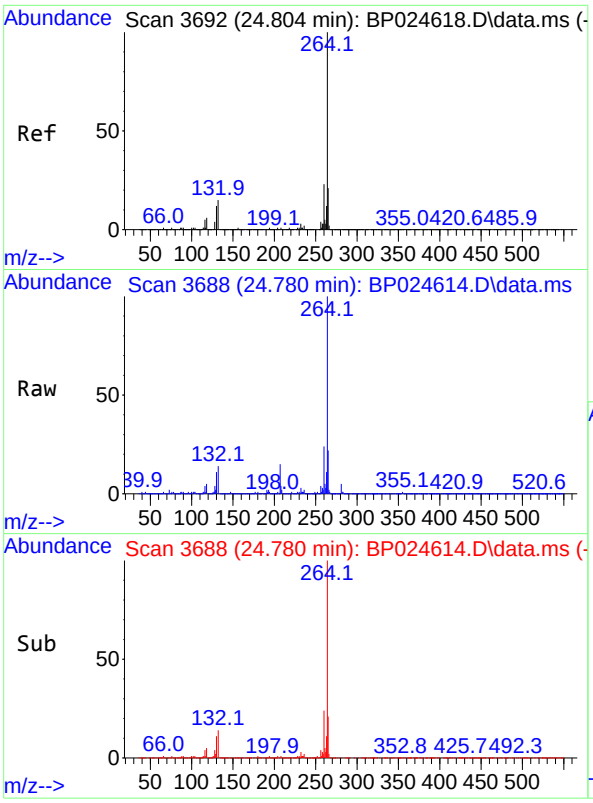
#79
Terphenyl-d14
Concen: 0.00 ng
Expected RT: 19.81 min

Lab File: BP024614.D
Acq: 13 May 2025 10:41

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	6.9
122	9.2



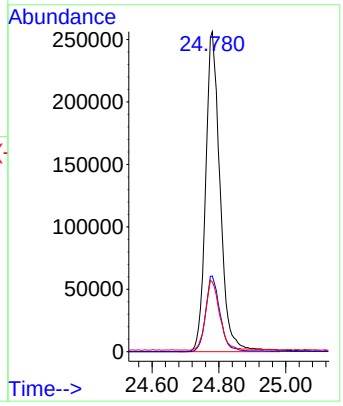


#86
Perylene-d12
Concen: 20.00 ng
RT: 24.780 min Scan# 3
Delta R.T. -0.023 min
Lab File: BP024614.D
Acq: 13 May 2025 10:41

Instrument :
BNA_P
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 769627

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.7	28.1
265	21.8	17.0	25.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024615.D
Acq On : 13 May 2025 11:22
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.664	152	90088	20.00	ng		0.00
21) Naphthalene-d8	10.434	136	378055	20.00	ng		0.00
39) Acenaphthene-d10	14.293	164	254561	20.00	ng		-0.01
64) Phenanthrene-d10	17.092	188	531548	20.00	ng		0.00
76) Chrysene-d12	21.522	240	614288	20.00	ng		0.00
86) Perylene-d12	24.810	264	724260	20.00	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.293	112	51093	9.70	ng		0.00
7) Phenol-d6	6.858	99	58619	8.72	ng		0.00
23) Nitrobenzene-d5	8.811	82	72056	9.63	ng		0.00
42) 2,4,6-Tribromophenol	15.810	330	41219	9.55	ng		0.00
45) 2-Fluorobiphenyl	12.904	172	203719	10.48	ng		0.00
79) Terphenyl-d14	19.822	244	366245	10.22	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.228	88	14435	5.84	ng		95
3) Pyridine	3.646	79	23737	4.33	ng	#	91
4) n-Nitrosodimethylamine	3.546	42	12080	4.99	ng	#	96
6) Aniline	7.011	93	38664	4.45	ng		97
8) 2-Chlorophenol	7.240	128	27022	4.52	ng		93
9) Benzaldehyde	6.828	77	22328m	5.14	ng		
10) Phenol	6.887	94	30912	4.46	ng		98
11) bis(2-Chloroethyl)ether	7.099	93	29668	5.20	ng		97
12) 1,3-Dichlorobenzene	7.552	146	35946	5.23	ng		96
13) 1,4-Dichlorobenzene	7.699	146	35091	5.07	ng		95
14) 1,2-Dichlorobenzene	8.011	146	34458	5.11	ng		99
15) Benzyl Alcohol	7.917	79	19888	3.89	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.193	45	34754	5.09	ng		95
17) 2-Methylphenol	8.116	107	21754	4.37	ng		97
18) Hexachloroethane	8.728	117	13650	5.15	ng		96
19) n-Nitroso-di-n-propyla...	8.464	70	22015	4.73	ng		98
20) 3+4-Methylphenols	8.452	107	27500	4.06	ng		97
22) Acetophenone	8.487	105	45968	4.87	ng	#	99
24) Nitrobenzene	8.852	77	31500	4.78	ng		97
25) Isophorone	9.375	82	60855	4.69	ng		98
26) 2-Nitrophenol	9.569	139	12786	3.96	ng		95
27) 2,4-Dimethylphenol	9.628	122	25830	4.54	ng		92
28) bis(2-Chloroethoxy)met...	9.858	93	38071	4.91	ng		97
29) 2,4-Dichlorophenol	10.122	162	23623	4.29	ng		97
30) 1,2,4-Trichlorobenzene	10.299	180	32699	5.26	ng		99
31) Naphthalene	10.481	128	100564	5.13	ng		100
33) 4-Chloroaniline	10.616	127	32908	4.16	ng		99
34) Hexachlorobutadiene	10.763	225	21834	5.43	ng		95
35) Caprolactam	11.399	113	7742m	3.88	ng		
36) 4-Chloro-3-methylphenol	11.746	107	29849	4.44	ng		95
37) 2-Methylnaphthalene	12.099	142	63562	5.01	ng		99
38) 1-Methylnaphthalene	12.316	142	70043	5.16	ng		100
40) 1,2,4,5-Tetrachloroben...	12.469	216	37738	5.11	ng		99
41) Hexachlorocyclopentadiene	12.446	237	15939	3.56	ng		93
43) 2,4,6-Trichlorophenol	12.722	196	19429	4.06	ng		92
44) 2,4,5-Trichlorophenol	12.816	196	23918	4.49	ng		93

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024615.D
Acq On : 13 May 2025 11:22
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
46) 1,1'-Biphenyl	13.116	154	96956	5.15	ng		98
47) 2-Chloronaphthalene	13.157	162	72977	5.09	ng		99
48) 2-Nitroaniline	13.381	65	17778	4.19	ng		98
49) Acenaphthylene	14.010	152	117448	4.89	ng		99
50) Dimethylphthalate	13.751	163	99940	5.15	ng		100
51) 2,6-Dinitrotoluene	13.869	165	19052	4.65	ng	#	85
52) Acenaphthene	14.357	154	70302	5.09	ng		96
53) 3-Nitroaniline	14.222	138	16400	3.92	ng		97
55) Dibenzofuran	14.698	168	115180	5.23	ng		98
57) 2,4-Dinitrotoluene	14.675	165	25481	4.41	ng		92
58) Fluorene	15.363	166	93303	5.20	ng		98
59) 2,3,4,6-Tetrachlorophenol	14.946	232	23382	4.73	ng		98
60) Diethylphthalate	15.134	149	101366	5.17	ng		99
61) 4-Chlorophenyl-phenyle...	15.357	204	47886	5.35	ng		98
62) 4-Nitroaniline	15.410	138	14482m	3.55	ng		
63) Azobenzene	15.651	77	84462	5.03	ng		99
66) n-Nitrosodiphenylamine	15.575	169	80078	4.90	ng		99
67) 4-Bromophenyl-phenylether	16.275	248	30702	4.90	ng		97
68) Hexachlorobenzene	16.387	284	40234	5.06	ng		99
69) Atrazine	16.551	200	27909	4.66	ng		98
70) Pentachlorophenol	16.757	266	16456	3.68	ng		95
71) Phenanthrene	17.134	178	152030	5.14	ng		99
72) Anthracene	17.234	178	145809	4.90	ng		99
73) Carbazole	17.522	167	122666	4.56	ng		98
74) Di-n-butylphthalate	18.104	149	157014	4.54	ng		99
75) Fluoranthene	19.228	202	168865	4.89	ng		99
78) Pyrene	19.604	202	181817	4.94	ng		99
80) Butylbenzylphthalate	20.551	149	70341	4.30	ng		100
81) Benzo(a)anthracene	21.498	228	192110	4.98	ng		99
82) 3,3'-Dichlorobenzidine	21.445	252	54793	3.82	ng		99
83) Chrysene	21.575	228	186449	5.10	ng		99
84) Bis(2-ethylhexyl)phtha...	21.445	149	103286	4.29	ng		97
85) Di-n-octyl phthalate	22.692	149	160883	4.09	ng		99
87) Indeno(1,2,3-cd)pyrene	28.504	276	242814	4.59	ng	#	87
88) Benzo(b)fluoranthene	23.763	252	186058	4.49	ng		97
89) Benzo(k)fluoranthene	23.839	252	207645	4.86	ng		100
90) Benzo(a)pyrene	24.657	252	180157	4.52	ng		99
91) Dibenzo(a,h)anthracene	28.586	278	193373	4.50	ng		98
92) Benzo(g,h,i)perylene	29.651	276	199361	4.66	ng		98

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

ICAL Form

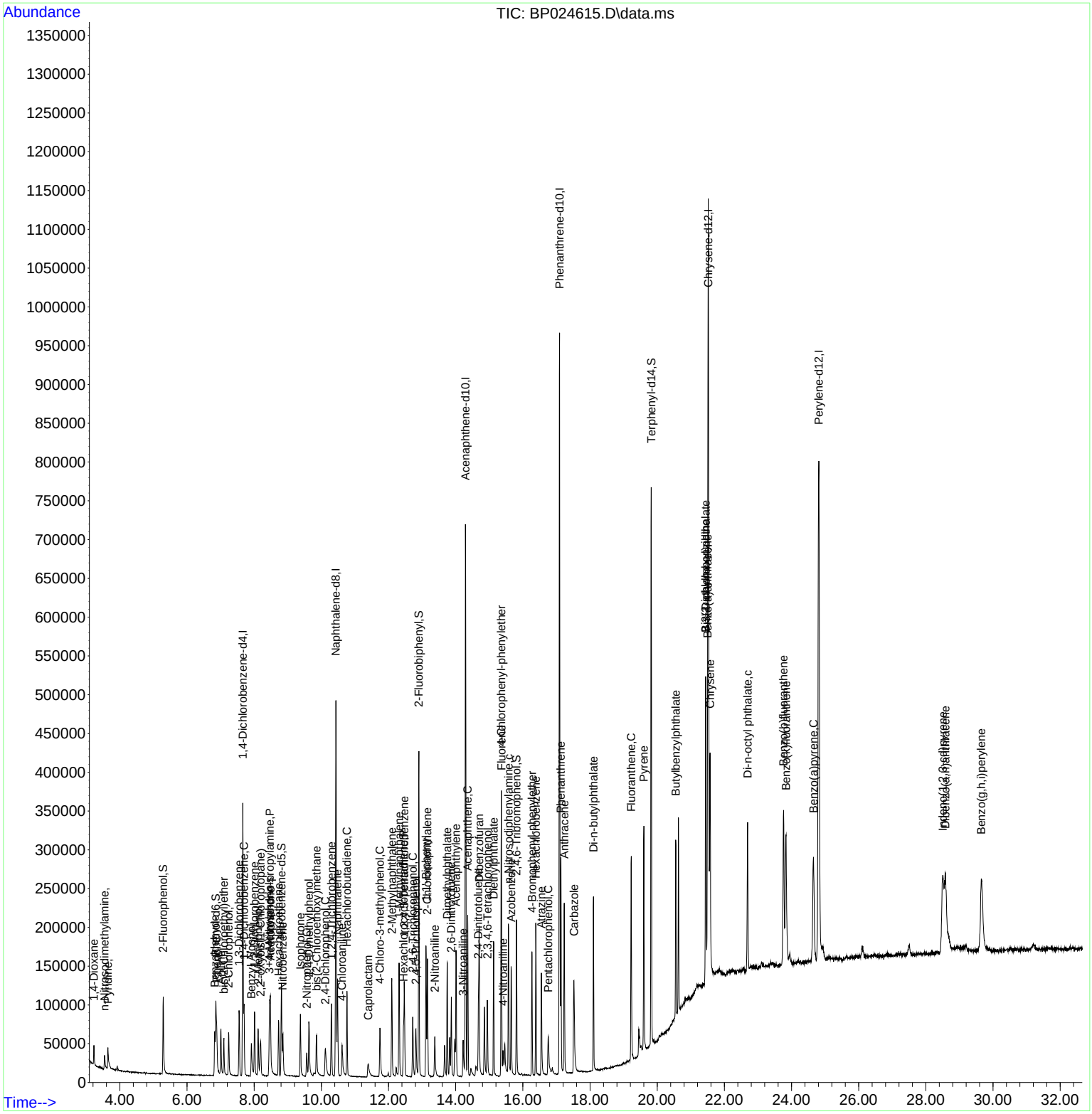
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024615.D
Acq On : 13 May 2025 11:22
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

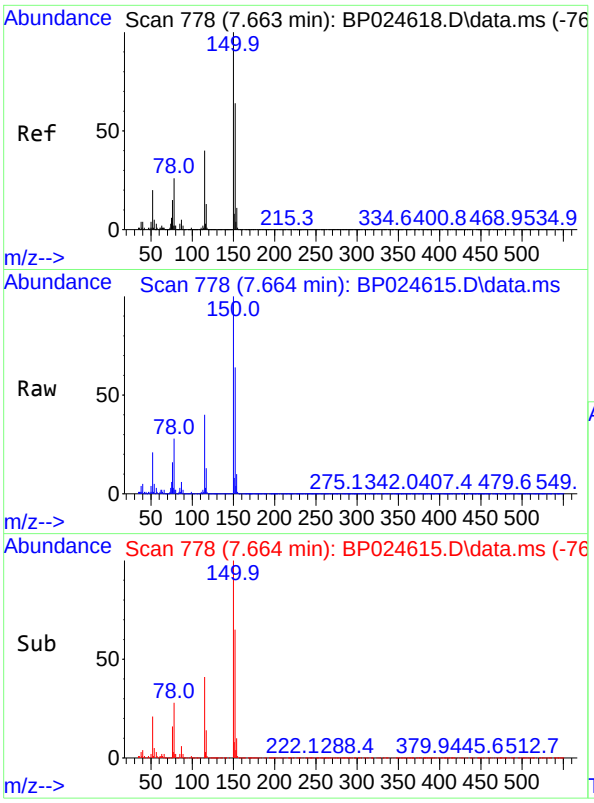
Quant Time: May 13 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

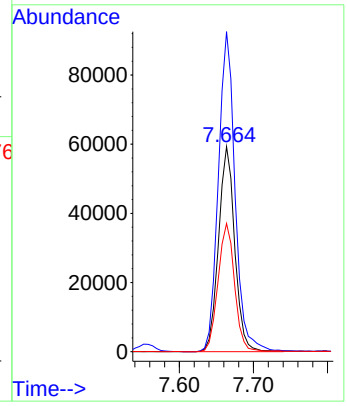




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.664 min Scan# 7
Delta R.T. 0.001 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:152 Resp: 9008

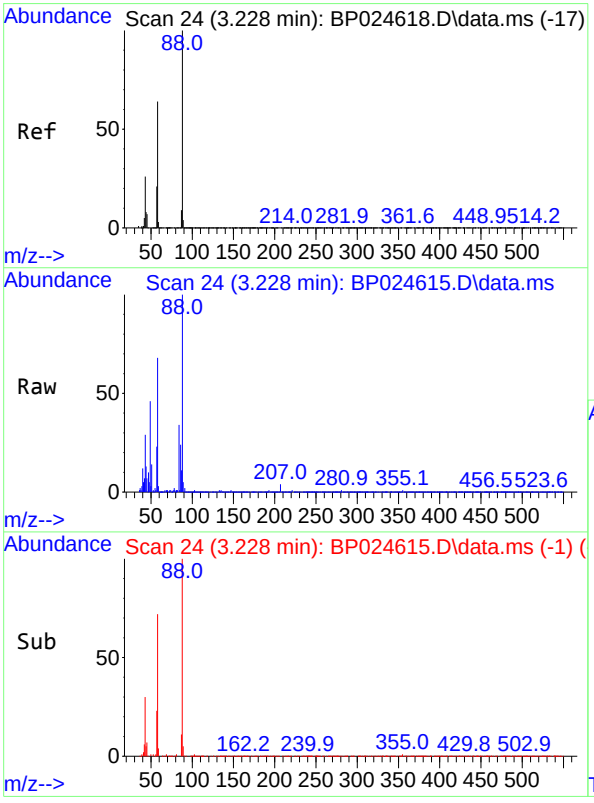
Ion	Ratio	Lower	Upper
152	100		
150	156.0	125.9	188.9
115	62.5	50.1	75.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

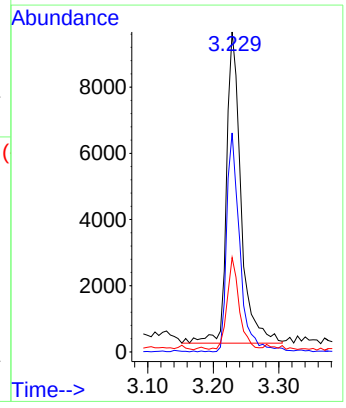
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

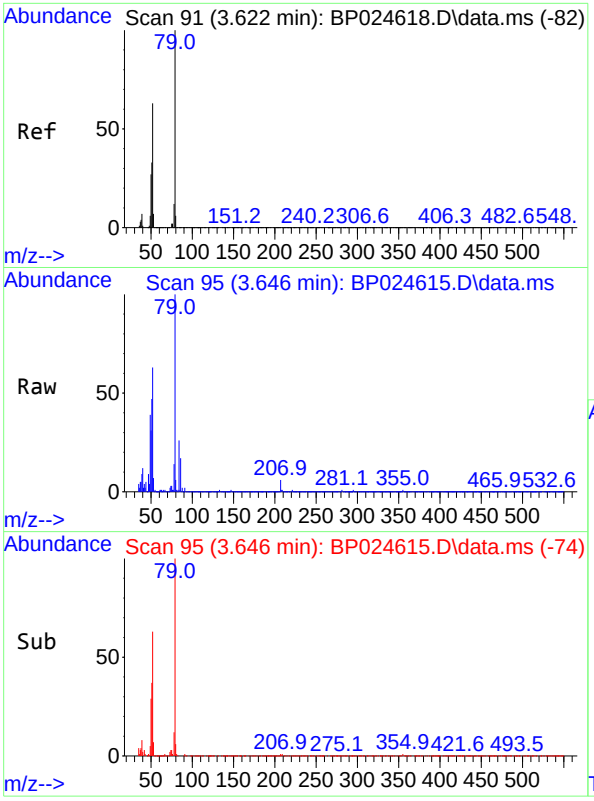


#2
1,4-Dioxane
Concen: 5.84 ng
RT: 3.228 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 88 Resp: 14435

Ion	Ratio	Lower	Upper
88	100		
58	63.6	54.0	81.0
43	24.2	21.4	32.0

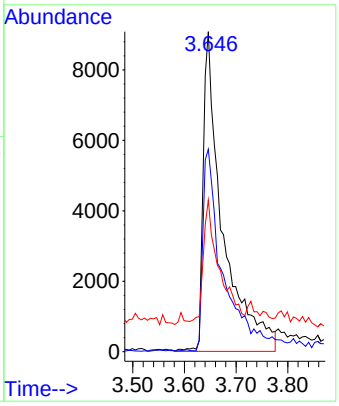




#3
Pyridine
Concen: 4.33 ng
RT: 3.646 min Scan# 9
Delta R.T. 0.024 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 79 Resp: 2373

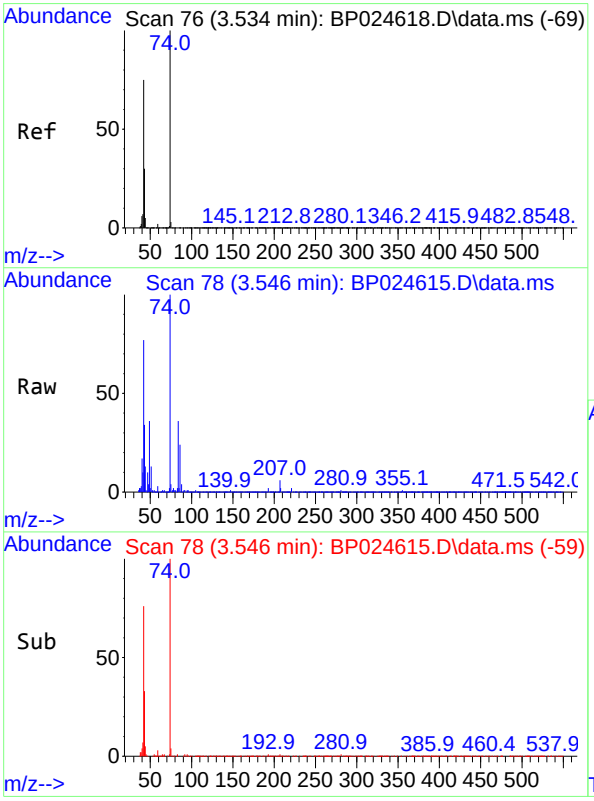
Ion	Ratio	Lower	Upper
79	100		
52	63.2	50.2	75.2
51	47.4	26.8	40.2#



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

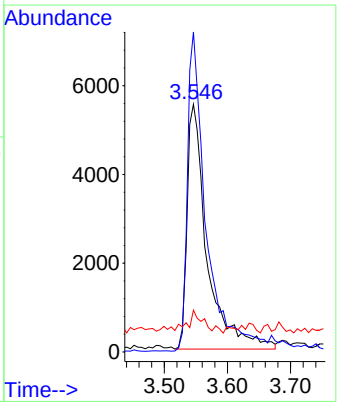
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

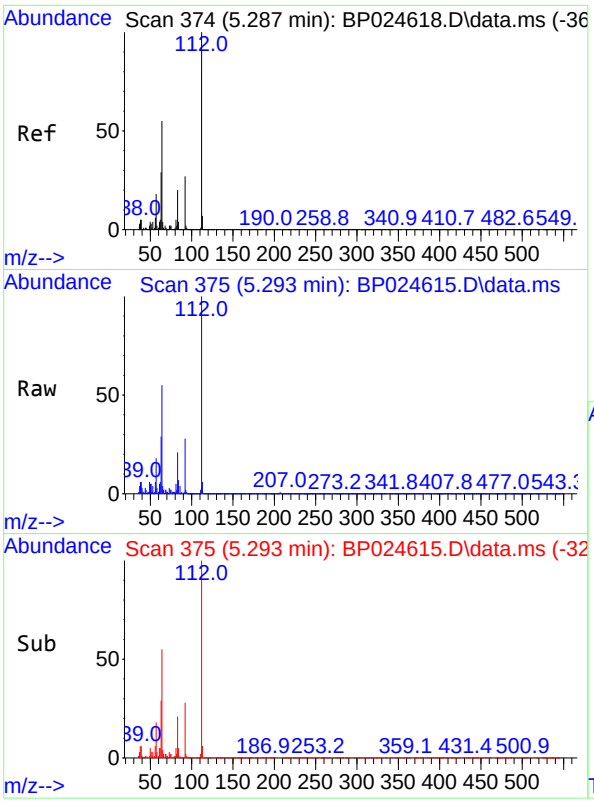


#4
n-Nitrosodimethylamine
Concen: 4.99 ng
RT: 3.546 min Scan# 78
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 42 Resp: 12080

Ion	Ratio	Lower	Upper
42	100		
74	129.2	106.2	159.2
44	16.9	5.4	8.2#





#5
2-Fluorophenol
Concen: 9.70 ng
RT: 5.293 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

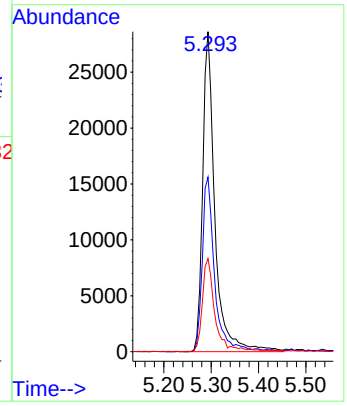
Tgt Ion:112 Resp: 5109

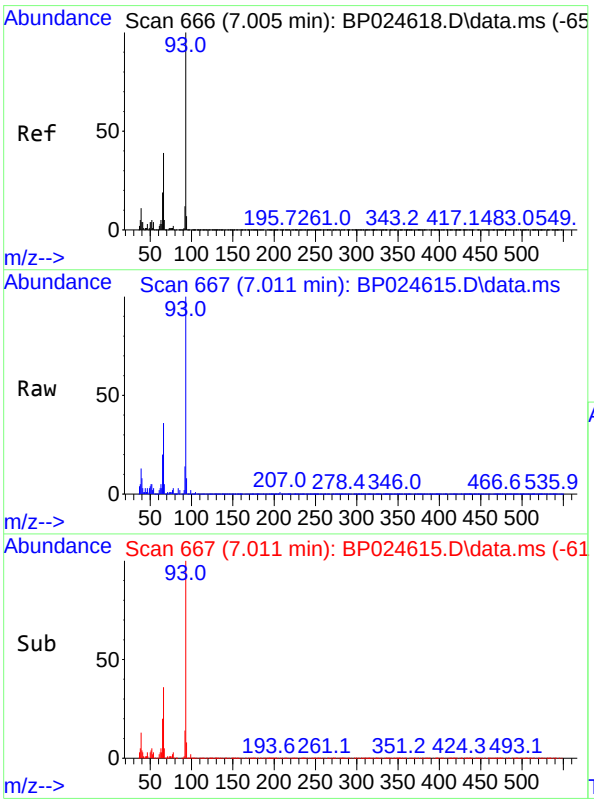
Ion	Ratio	Lower	Upper
112	100		
64	54.6	44.1	66.1
63	29.1	23.5	35.3

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

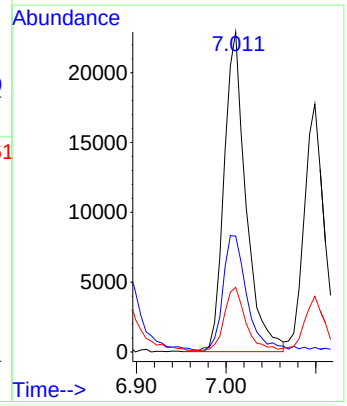


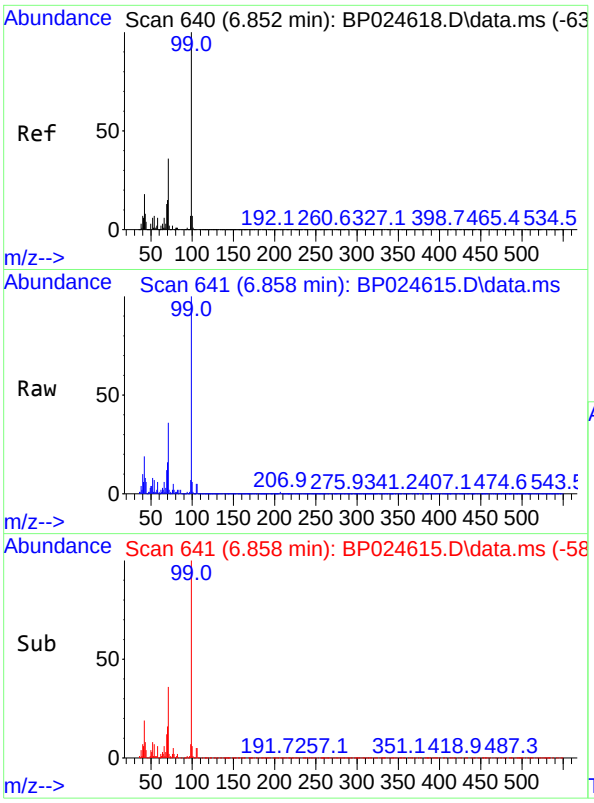


#6
Aniline
Concen: 4.45 ng
RT: 7.011 min Scan# 667
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 93 Resp: 38664

Ion	Ratio	Lower	Upper
93	100		
66	36.2	31.0	46.6
65	20.2	15.5	23.3

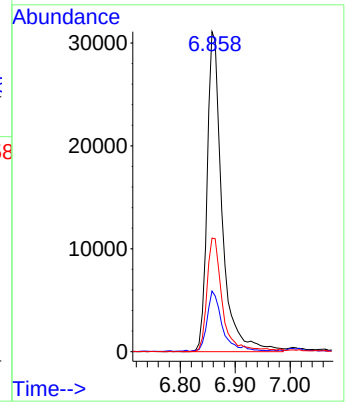




#7
Phenol-d6
Concen: 8.72 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 99 Resp: 5861

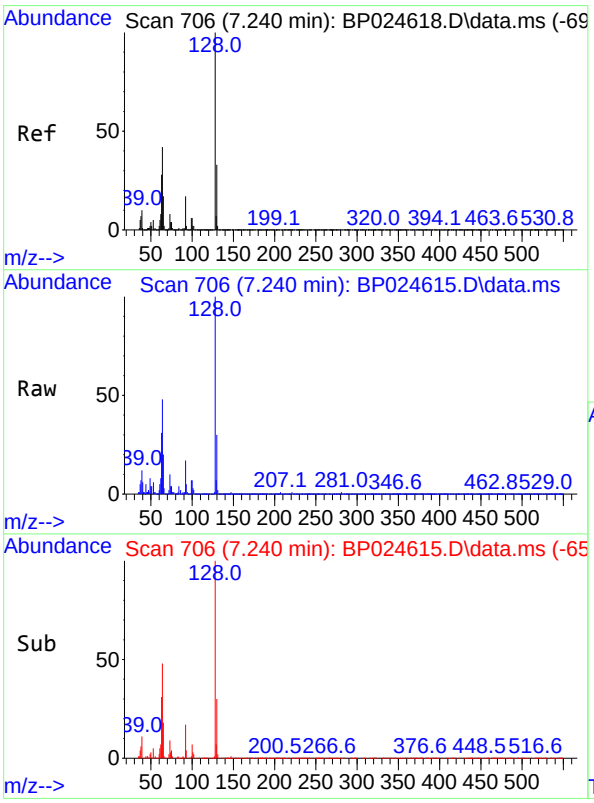
Ion	Ratio	Lower	Upper
99	100		
42	18.9	14.4	21.6
71	35.5	29.2	43.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

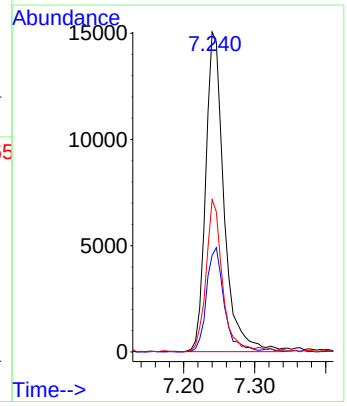
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

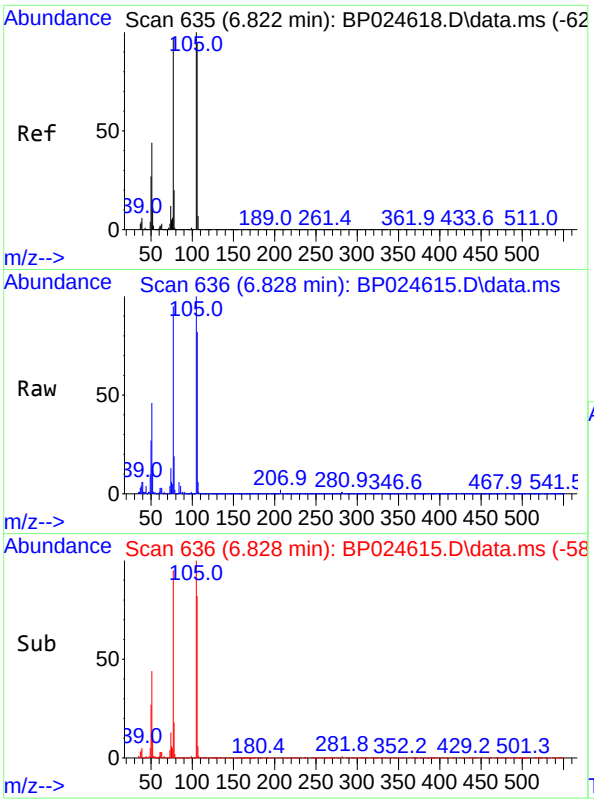


#8
2-Chlorophenol
Concen: 4.52 ng
RT: 7.240 min Scan# 706
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:128 Resp: 27022

Ion	Ratio	Lower	Upper
128	100		
130	30.3	13.0	53.0
64	47.6	22.3	62.3

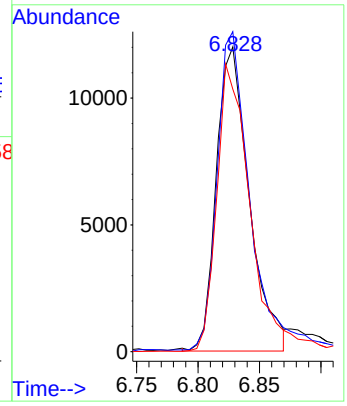




#9
Benzaldehyde
Concen: 5.14 ng m
RT: 6.828 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 77 Resp: 2232

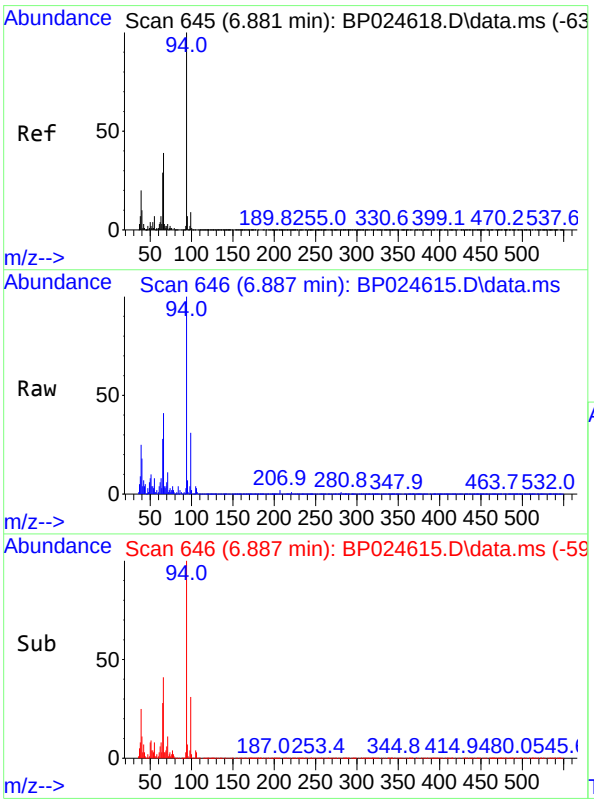
Ion	Ratio	Lower	Upper
77	100		
105	105.0	83.3	123.3
106	86.1	78.0	118.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

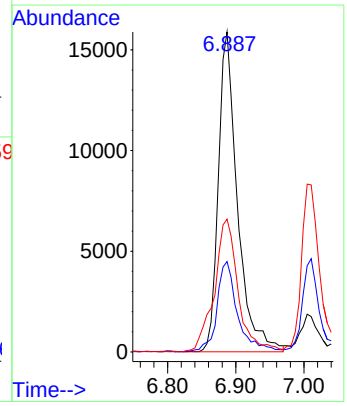
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

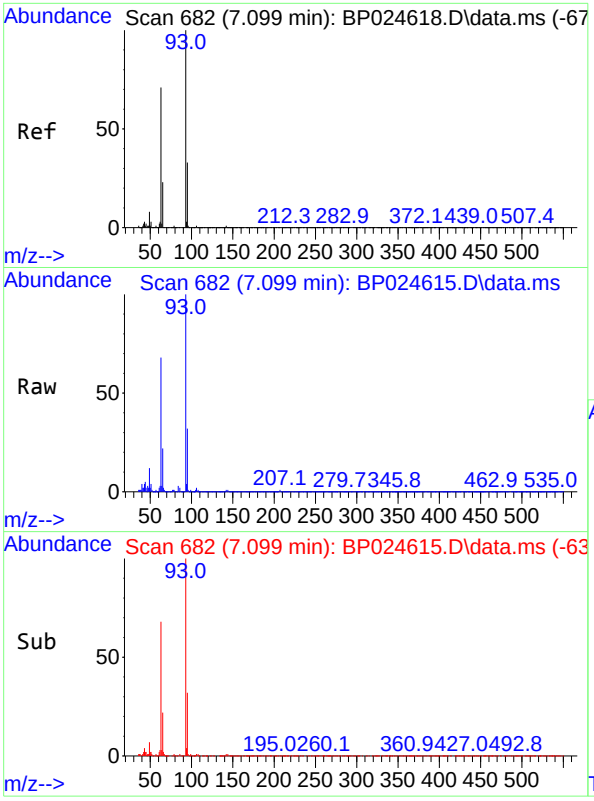


#10
Phenol
Concen: 4.46 ng
RT: 6.887 min Scan# 646
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 94 Resp: 30912

Ion	Ratio	Lower	Upper
94	100		
65	28.2	8.7	48.7
66	41.5	19.4	59.4

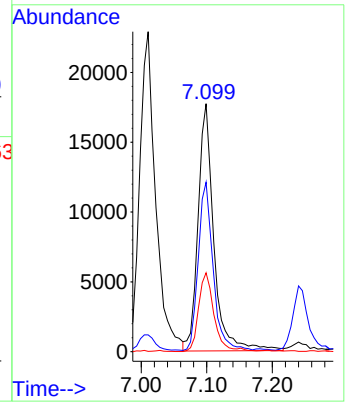




#11
bis(2-Chloroethyl)ether
Concen: 5.20 ng
RT: 7.099 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 93 Resp: 2966

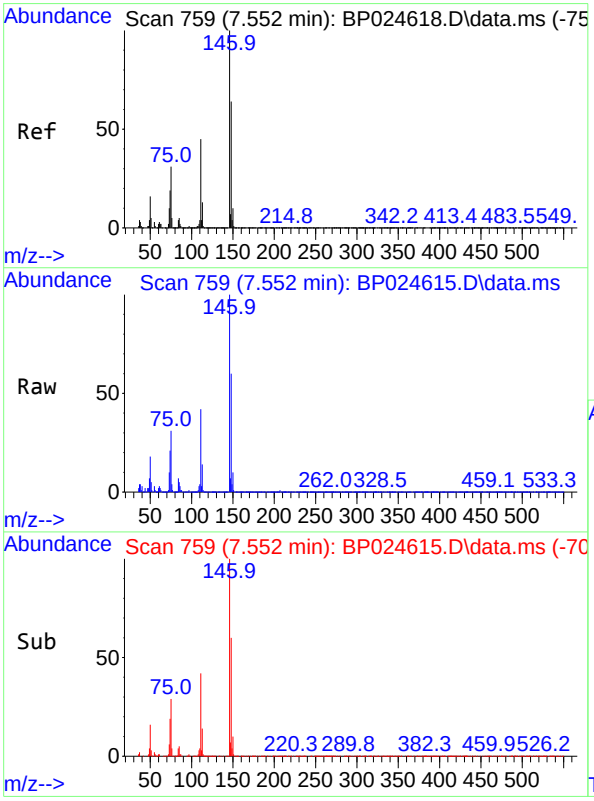
Ion	Ratio	Lower	Upper
93	100		
63	68.3	50.6	90.6
95	31.8	12.9	52.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

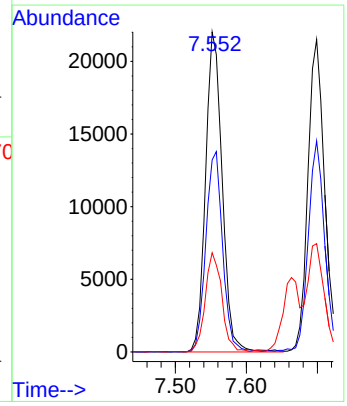
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

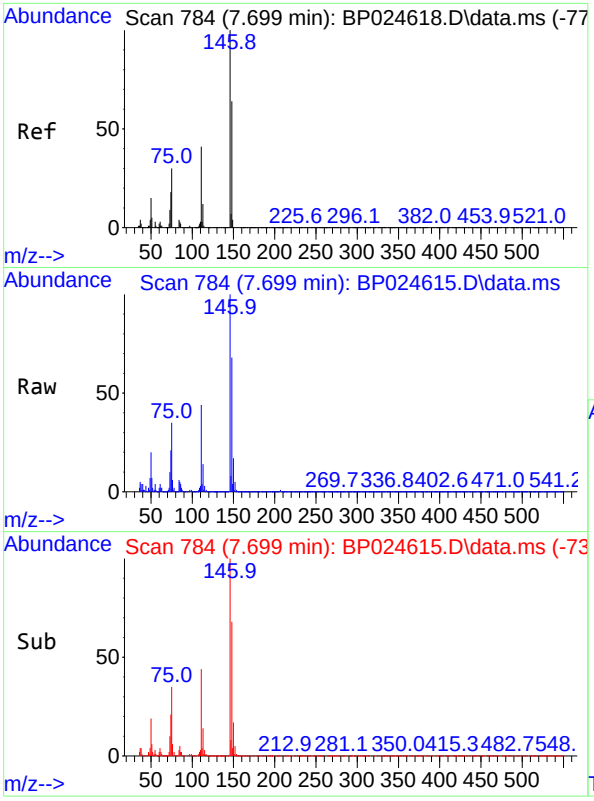


#12
1,3-Dichlorobenzene
Concen: 5.23 ng
RT: 7.552 min Scan# 759
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:146 Resp: 35946

Ion	Ratio	Lower	Upper
146	100		
148	60.0	51.4	77.2
75	31.0	25.2	37.8

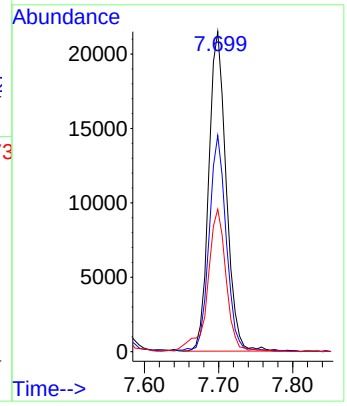




#13
1,4-Dichlorobenzene
Concen: 5.07 ng
RT: 7.699 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:146 Resp: 3509

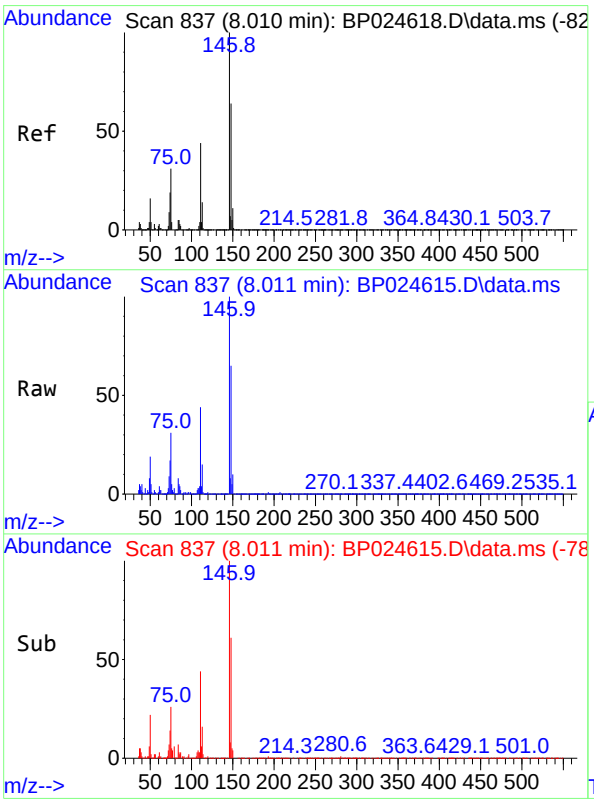
Ion	Ratio	Lower	Upper
146	100		
148	67.6	51.0	76.6
111	44.5	33.0	49.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

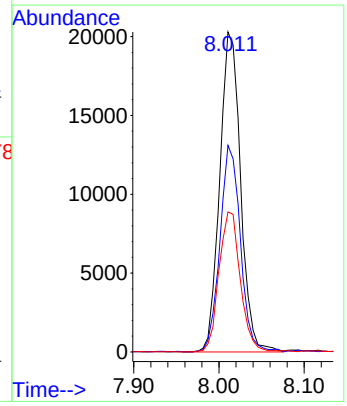
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

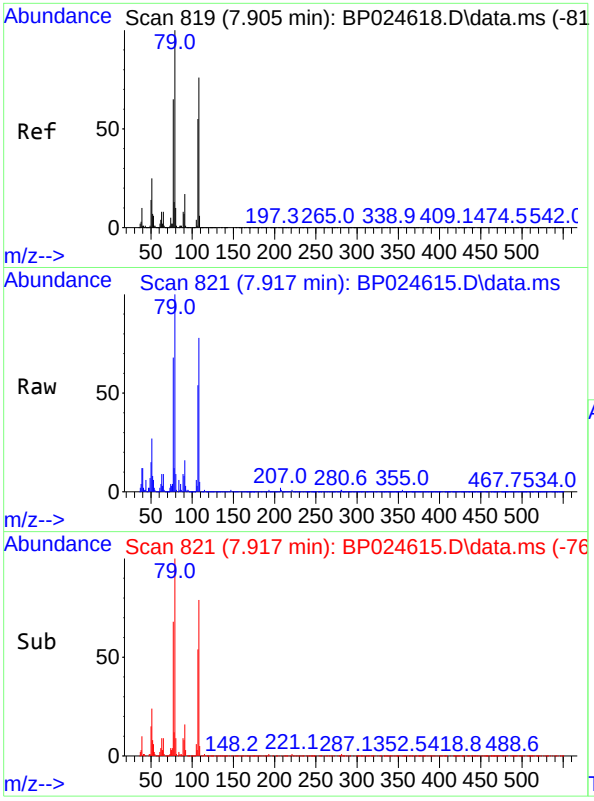


#14
1,2-Dichlorobenzene
Concen: 5.11 ng
RT: 8.011 min Scan# 837
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:146 Resp: 34458

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.0	76.4
111	43.7	35.2	52.8

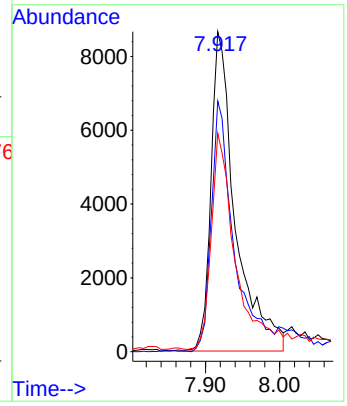




#15
Benzyl Alcohol
Concen: 3.89 ng
RT: 7.917 min Scan# 8
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 79 Resp: 1988

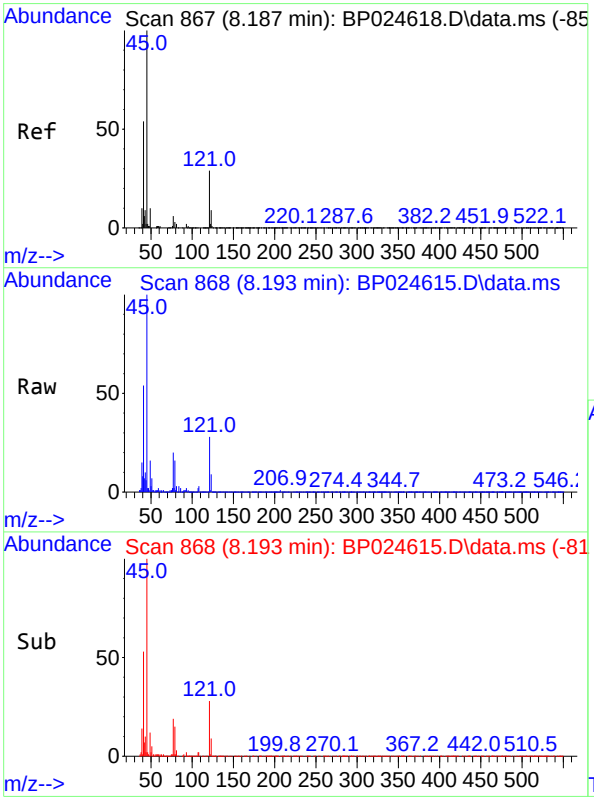
Ion	Ratio	Lower	Upper
79	100		
108	78.3	60.8	91.2
77	68.2	51.9	77.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

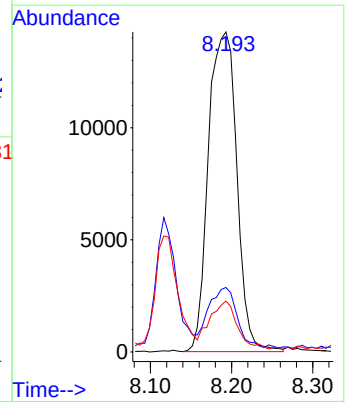
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

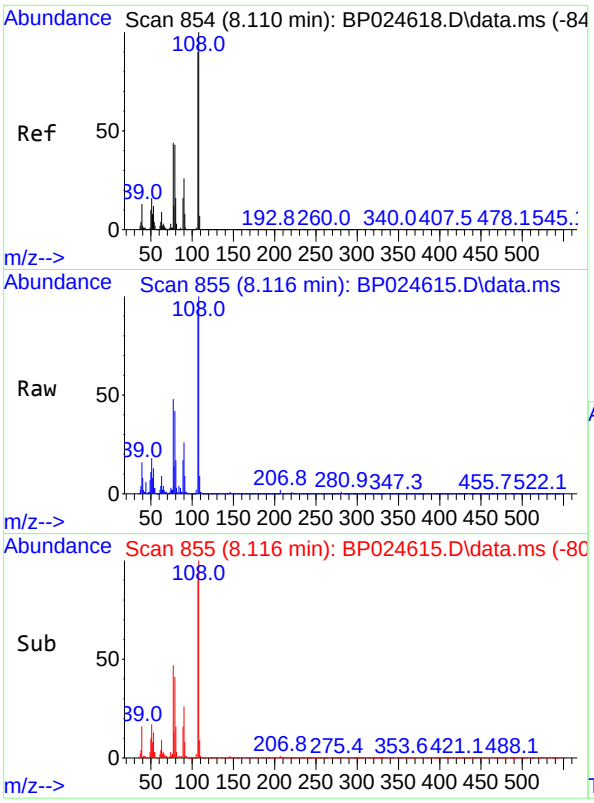


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.09 ng
RT: 8.193 min Scan# 868
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 45 Resp: 34754

Ion	Ratio	Lower	Upper
45	100		
77	20.2	0.0	37.7
79	15.9	0.0	34.0

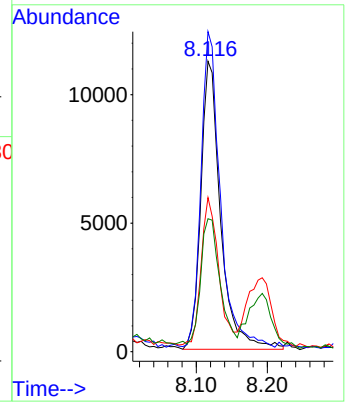




#17
2-Methylphenol
Concen: 4.37 ng
RT: 8.116 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:107 Resp: 2175

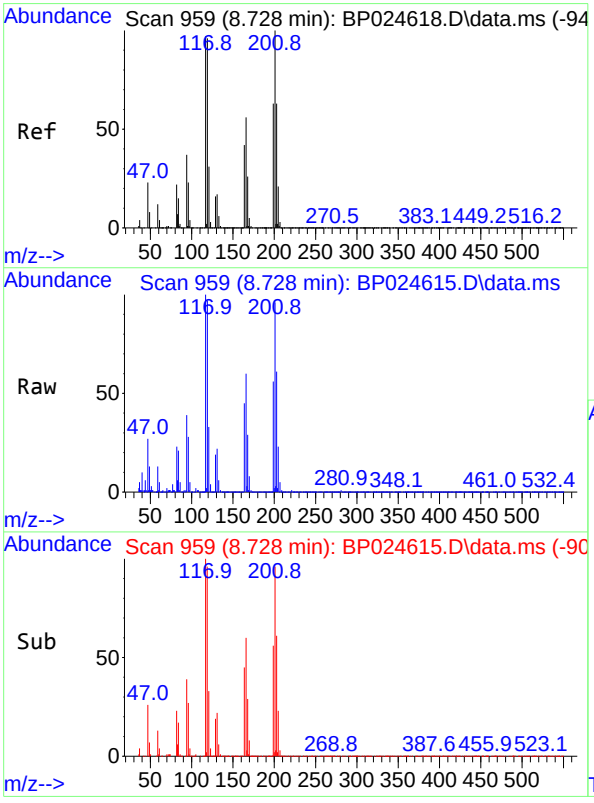
Ion	Ratio	Lower	Upper
107	100		
108	110.2	88.9	133.3
77	53.0	39.0	58.6
79	45.8	38.4	57.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

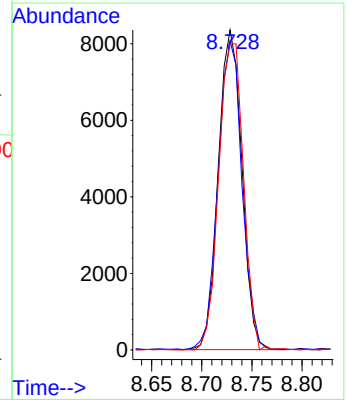
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

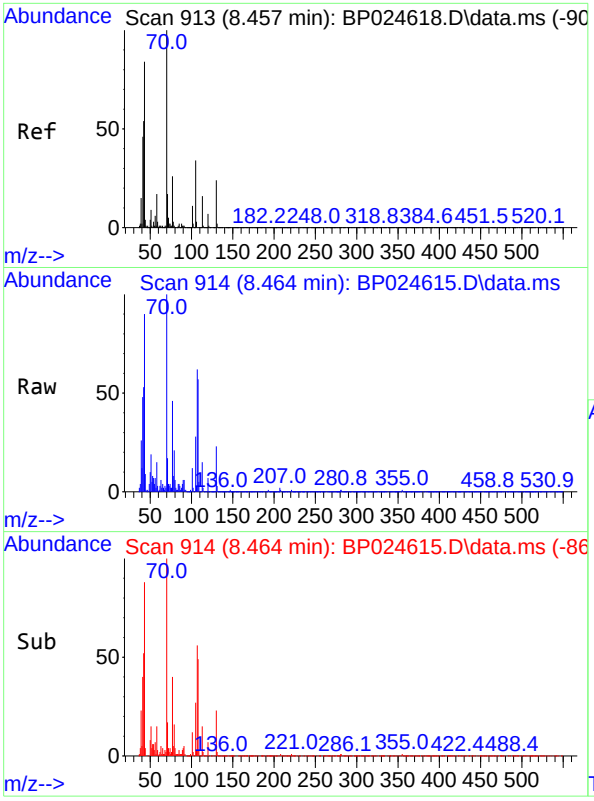


#18
Hexachloroethane
Concen: 5.15 ng
RT: 8.728 min Scan# 959
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:117 Resp: 13650

Ion	Ratio	Lower	Upper
117	100		
119	96.6	79.4	119.0
201	98.3	82.7	124.1

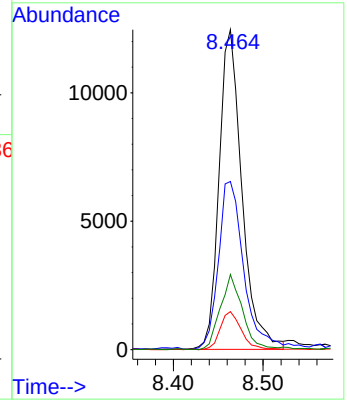




#19
n-Nitroso-di-n-propylamine
Concen: 4.73 ng
RT: 8.464 min Scan# 91
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 70 Resp: 2201

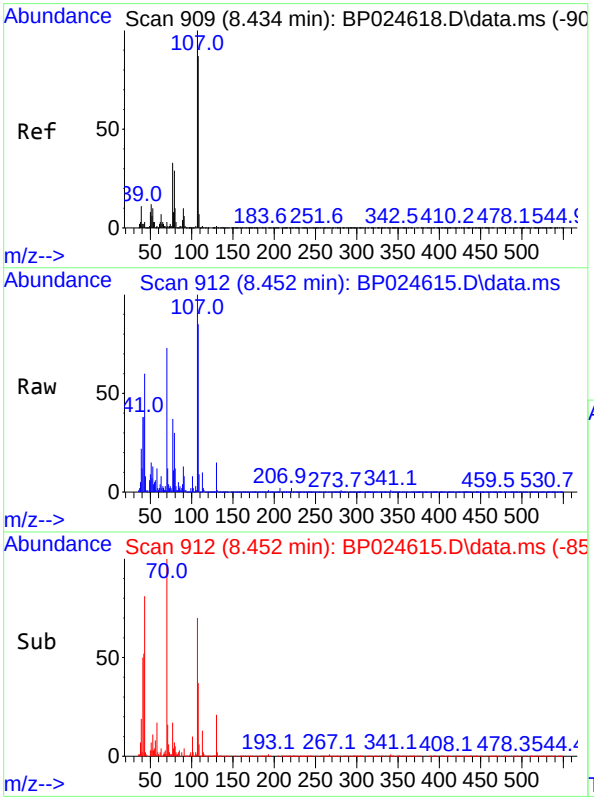
Ion	Ratio	Lower	Upper
70	100		
42	52.6	43.0	64.6
101	11.9	8.7	13.1
130	23.5	19.4	29.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

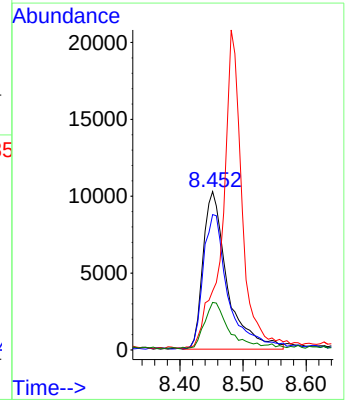
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

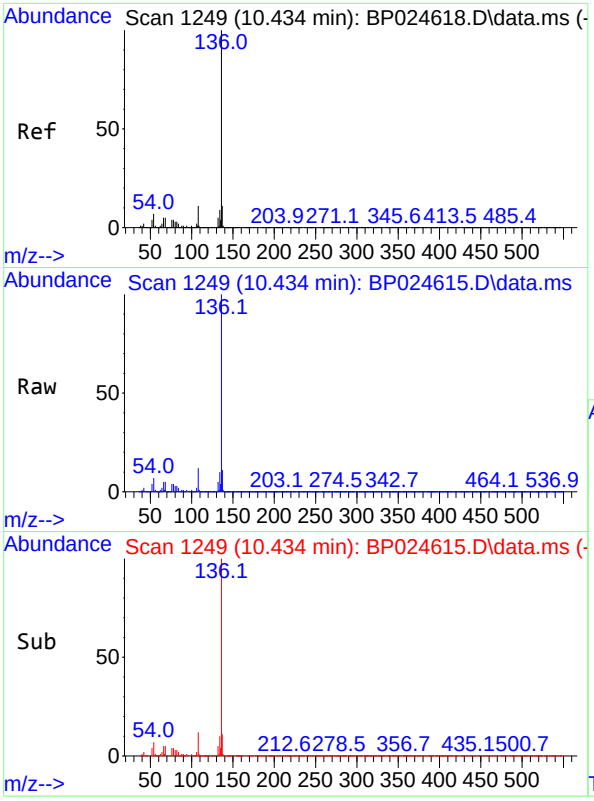


#20
3+4-Methylphenols
Concen: 4.06 ng
RT: 8.452 min Scan# 912
Delta R.T. 0.018 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:107 Resp: 27500

Ion	Ratio	Lower	Upper
107	100		
108	85.4	66.7	106.7
77	37.3	13.1	53.1
79	29.9	8.9	48.9

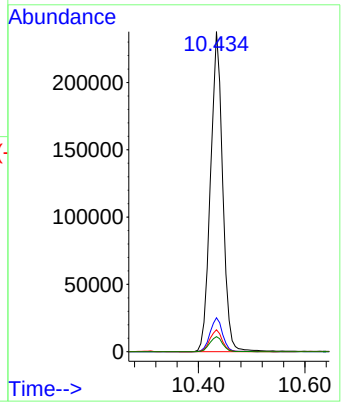




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:136 Resp: 37805

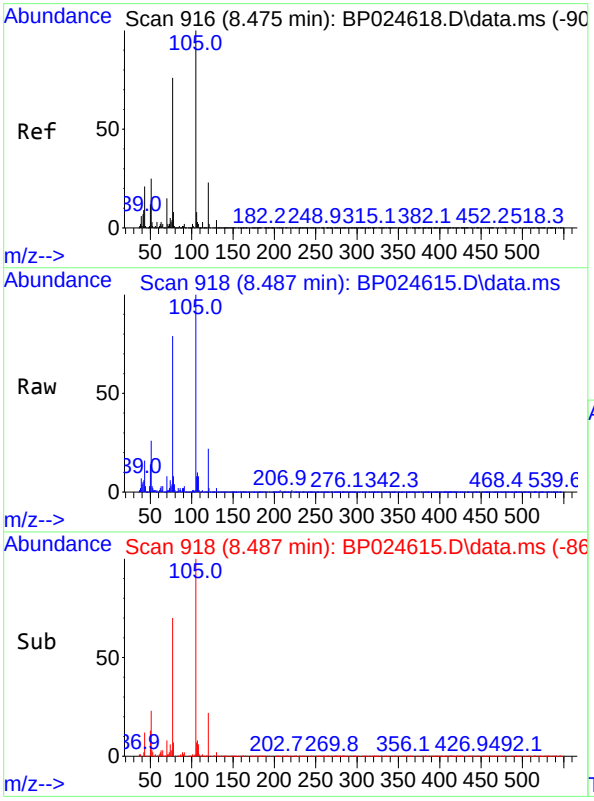
Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	6.8	5.5	8.3
68	4.7	4.2	6.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

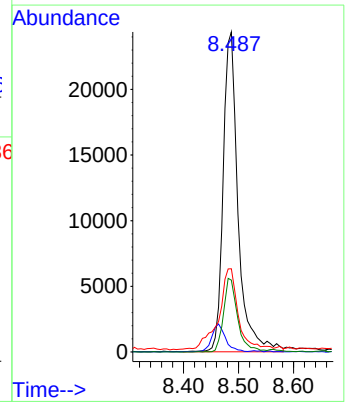
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

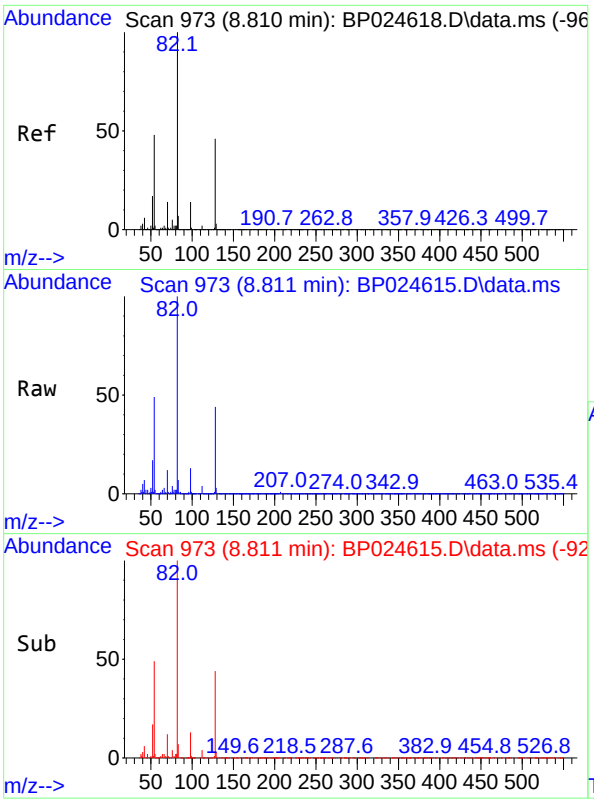


#22
Acetophenone
Concen: 4.87 ng
RT: 8.487 min Scan# 918
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:105 Resp: 45968

Ion	Ratio	Lower	Upper
105	100		
71	1.4	2.0	3.0#
51	26.0	20.4	30.6
120	22.4	18.1	27.1

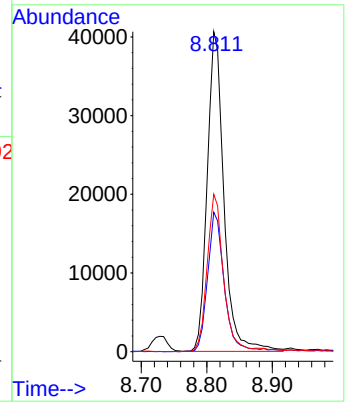




#23
Nitrobenzene-d5
Concen: 9.63 ng
RT: 8.811 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 82 Resp: 7205

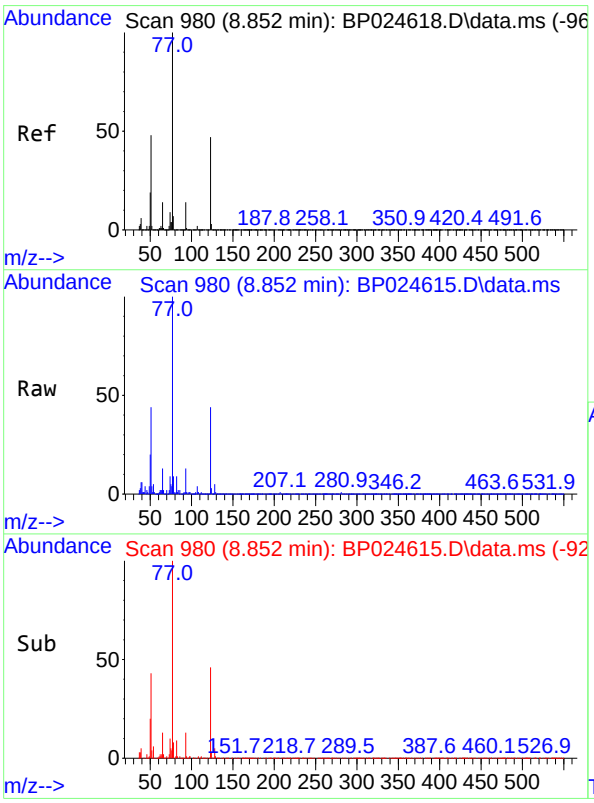
Ion	Ratio	Lower	Upper
82	100		
128	43.6	37.0	55.4
54	49.2	38.7	58.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

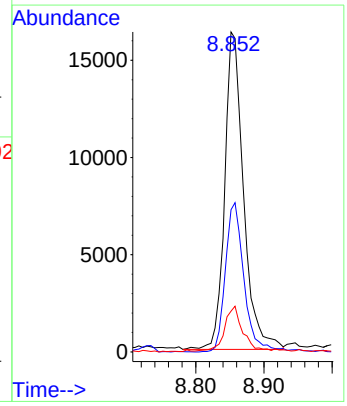
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

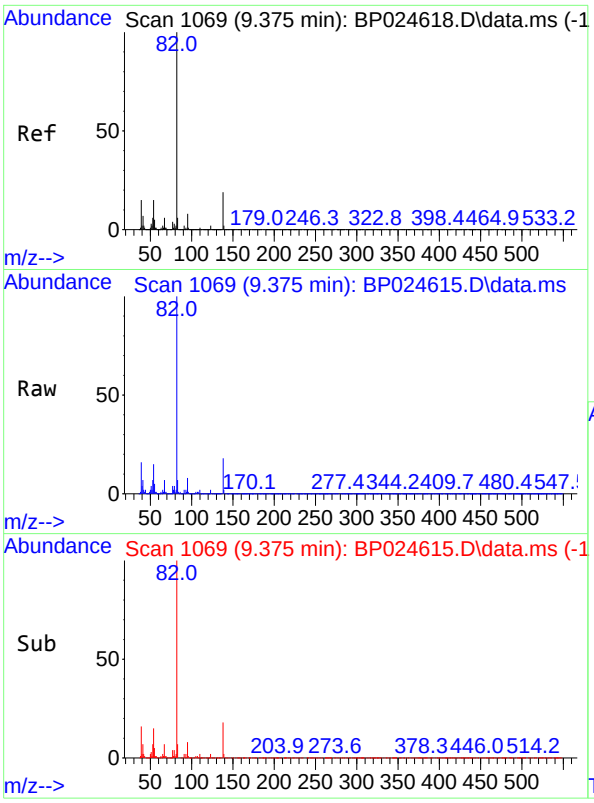


#24
Nitrobenzene
Concen: 4.78 ng
RT: 8.852 min Scan# 980
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 77 Resp: 31500

Ion	Ratio	Lower	Upper
77	100		
123	44.5	37.4	56.0
65	12.7	11.3	16.9

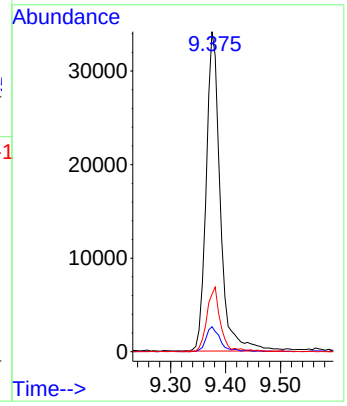




#25
Isophorone
Concen: 4.69 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 82 Resp: 6085

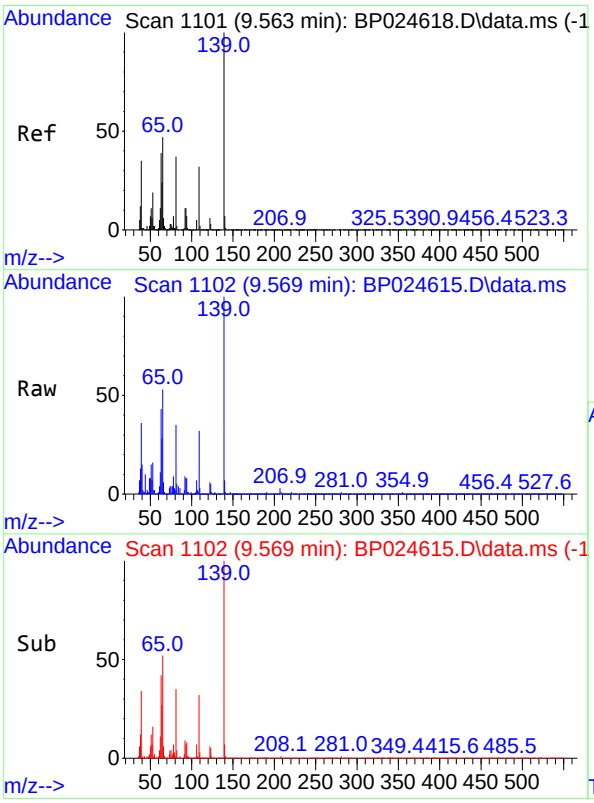
Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.3	9.5
138	17.9	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

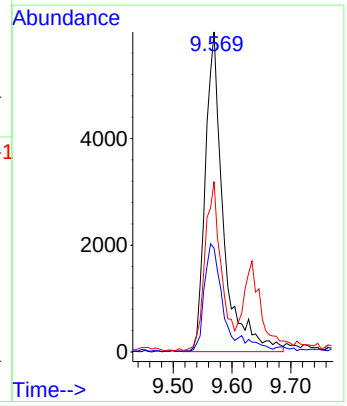
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

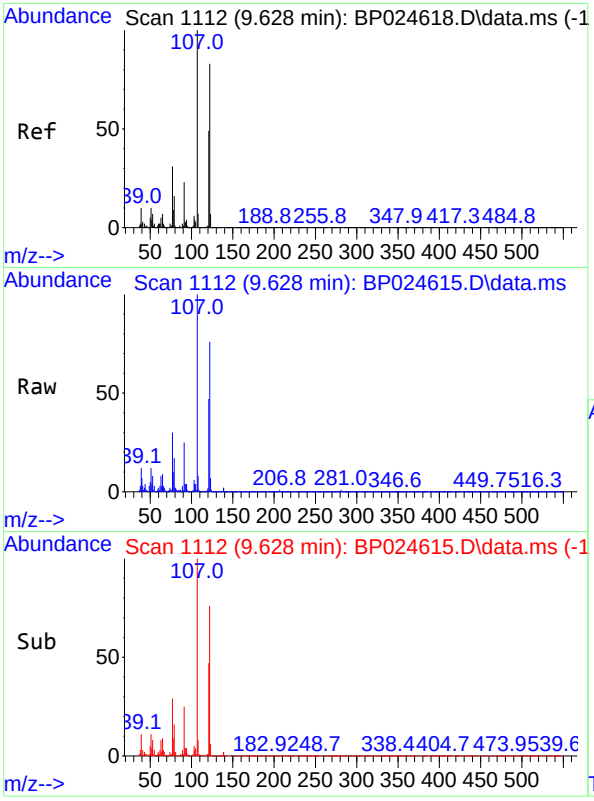


#26
2-Nitrophenol
Concen: 3.96 ng
RT: 9.569 min Scan# 1102
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:139 Resp: 12786

Ion	Ratio	Lower	Upper
139	100		
109	32.4	25.9	38.9
65	53.2	37.9	56.9





#27
2,4-Dimethylphenol
Concen: 4.54 ng
RT: 9.628 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

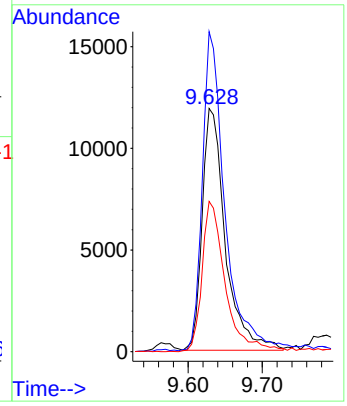
Tgt Ion:122 Resp: 2583

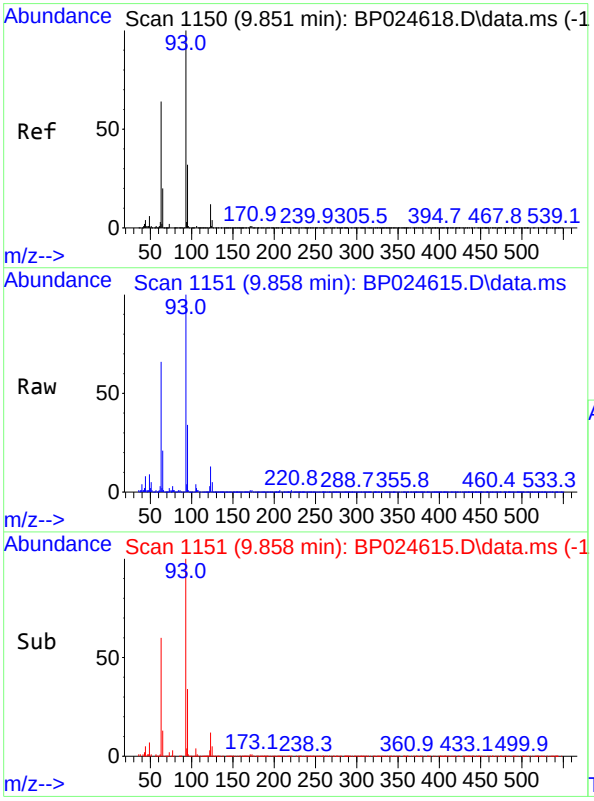
Ion	Ratio	Lower	Upper
122	100		
107	131.6	96.2	144.2
121	61.8	47.6	71.4

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

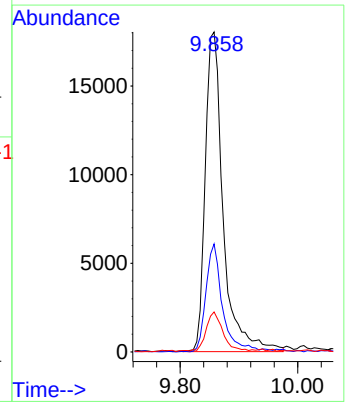


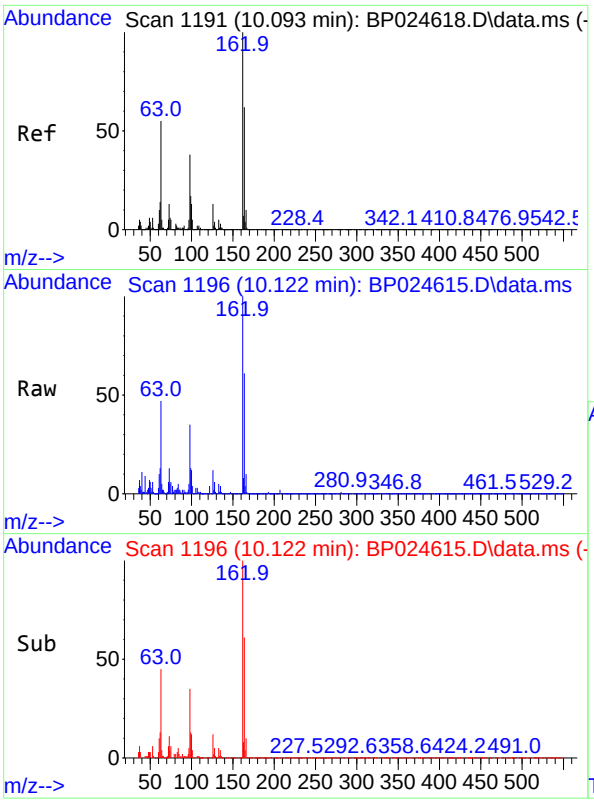


#28
bis(2-Chloroethoxy)methane
Concen: 4.91 ng
RT: 9.858 min Scan# 1151
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 93 Resp: 38071

Ion	Ratio	Lower	Upper
93	100		
95	33.7	25.5	38.3
123	12.5	9.7	14.5

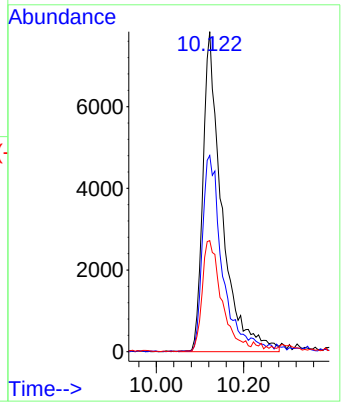




#29
2,4-Dichlorophenol
Concen: 4.29 ng
RT: 10.122 min Scan# 11
Delta R.T. 0.030 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:162 Resp: 2362

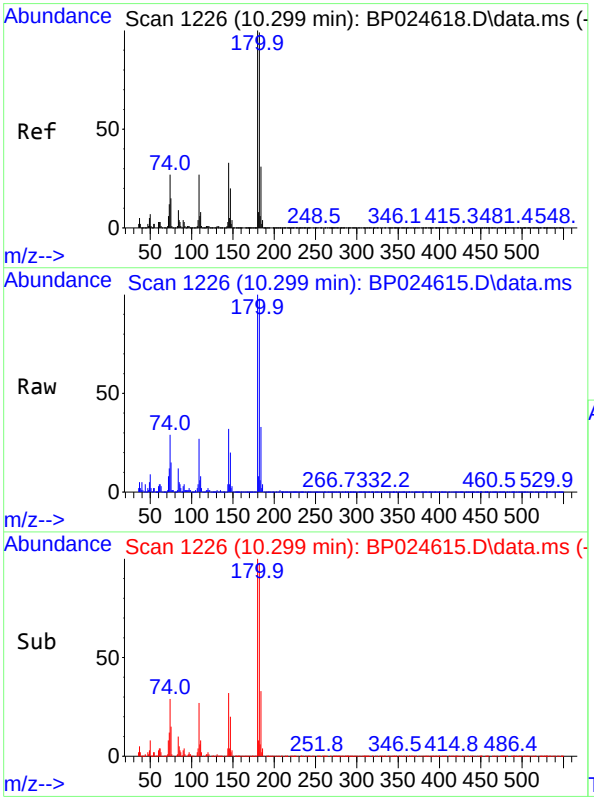
Ion	Ratio	Lower	Upper
162	100		
164	61.3	42.3	82.3
98	34.7	18.4	58.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

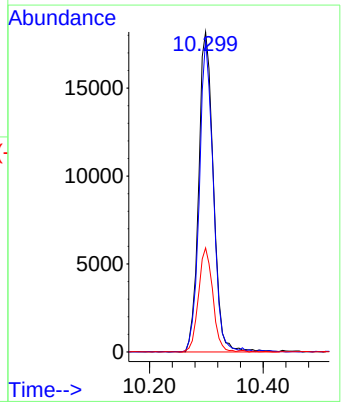
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

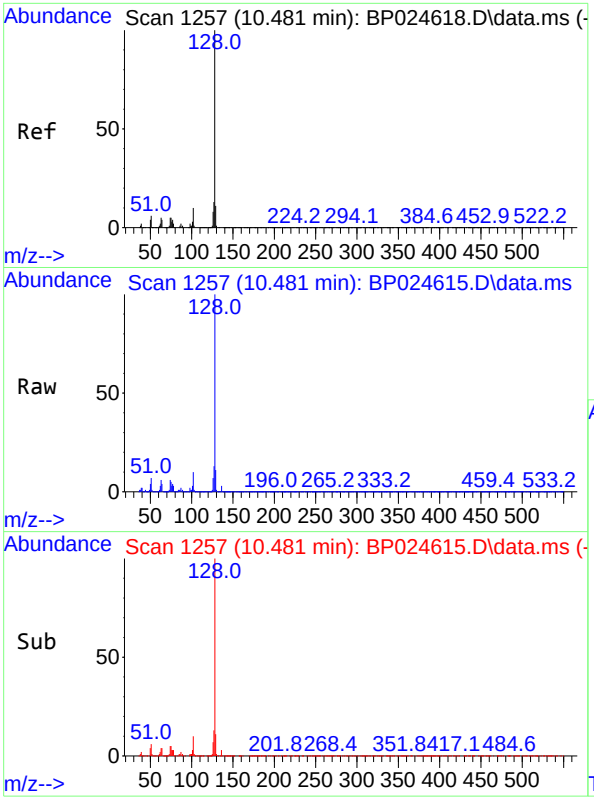


#30
1,2,4-Trichlorobenzene
Concen: 5.26 ng
RT: 10.299 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:180 Resp: 32699

Ion	Ratio	Lower	Upper
180	100		
182	97.6	79.0	118.4
145	32.5	26.6	39.8

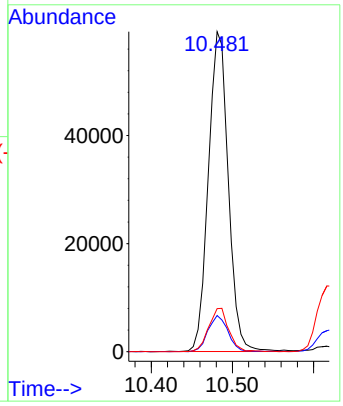




#31
Naphthalene
Concen: 5.13 ng
RT: 10.481 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:128 Resp: 10056

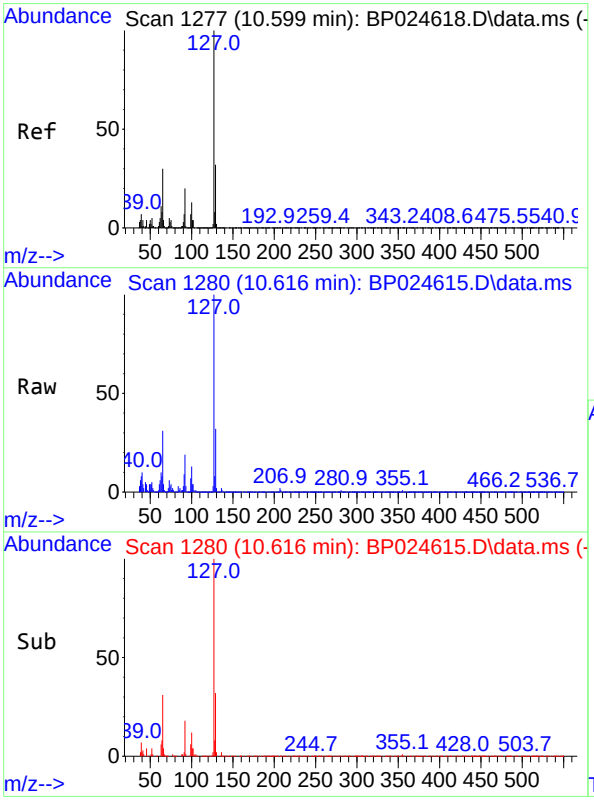
Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.5	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

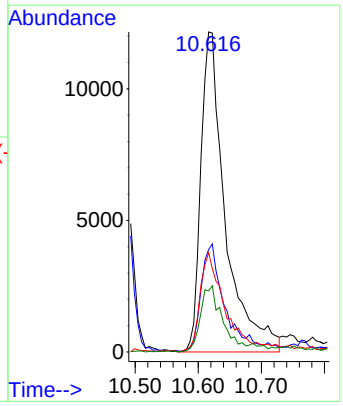
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

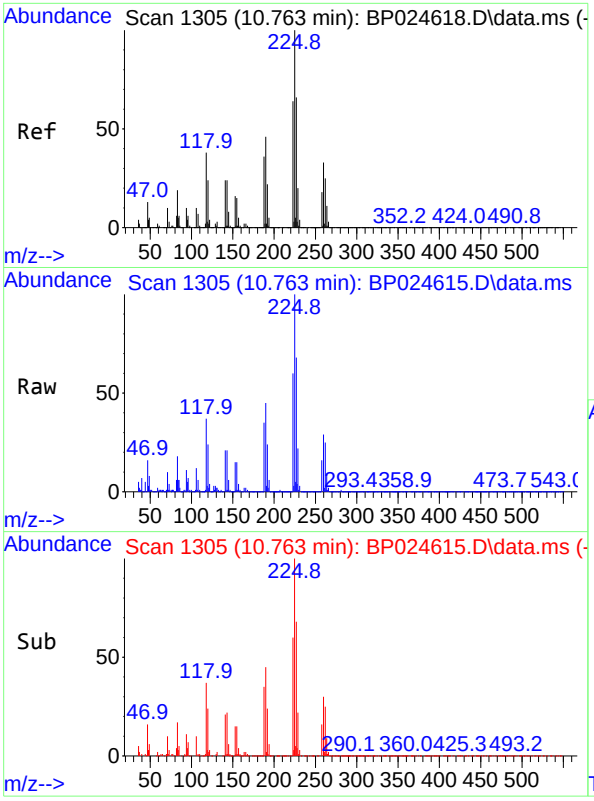


#33
4-Chloroaniline
Concen: 4.16 ng
RT: 10.616 min Scan# 1280
Delta R.T. 0.018 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:127 Resp: 32908

Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.8	38.6
65	31.0	23.9	35.9
92	19.1	16.1	24.1

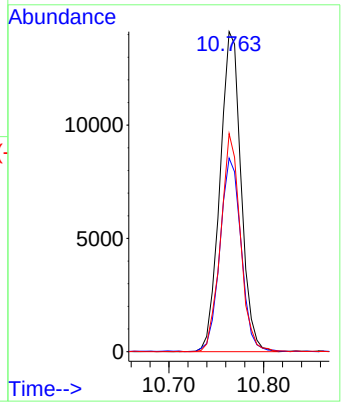




#34
Hexachlorobutadiene
Concen: 5.43 ng
RT: 10.763 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:225 Resp: 2183

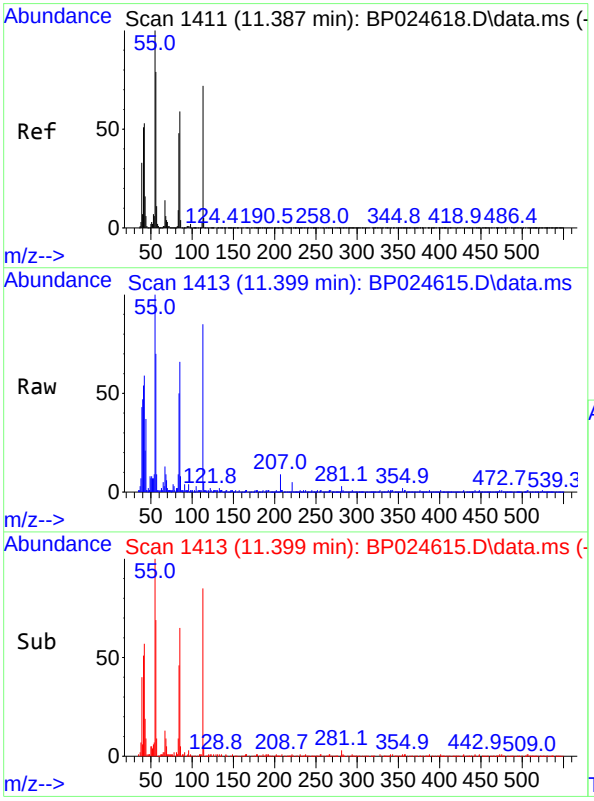
Ion	Ratio	Lower	Upper
225	100		
223	60.5	51.0	76.6
227	71.7	53.1	79.7



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

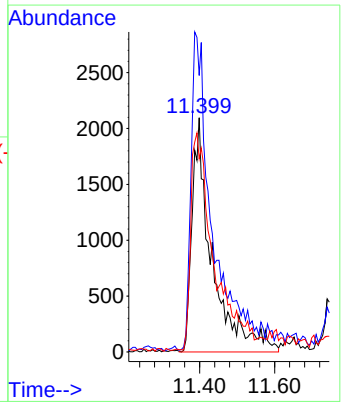
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

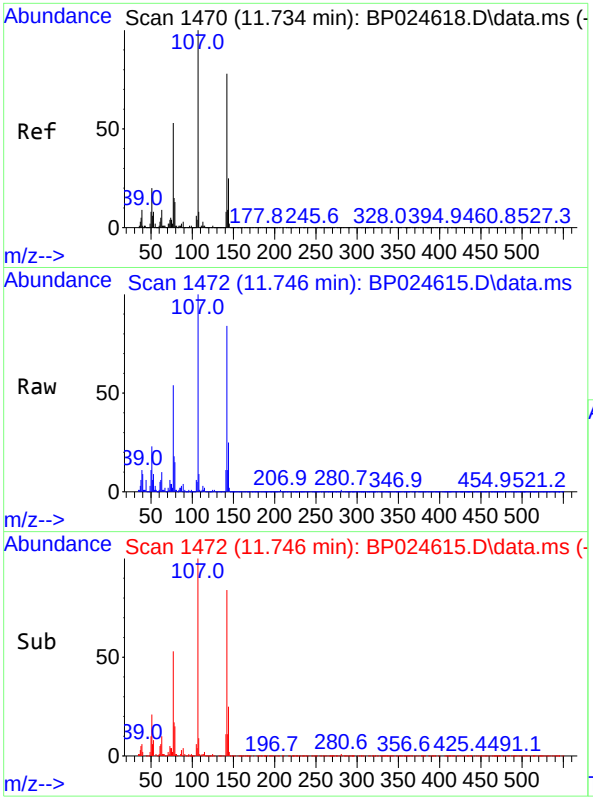


#35
Caprolactam
Concen: 3.88 ng m
RT: 11.399 min Scan# 1413
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:113 Resp: 7742

Ion	Ratio	Lower	Upper
113	100		
55	118.0	119.0	159.0#
56	82.4	90.3	130.3#

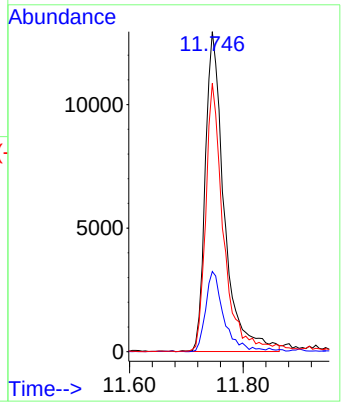




#36
4-Chloro-3-methylphenol
Concen: 4.44 ng
RT: 11.746 min Scan# 14
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:107 Resp: 2984

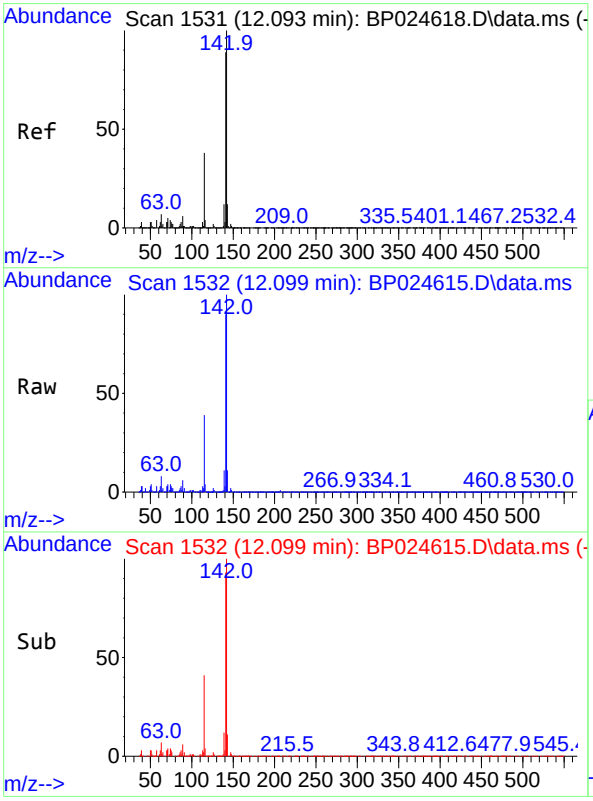
Ion	Ratio	Lower	Upper
107	100		
144	25.0	20.1	30.1
142	83.9	62.1	93.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

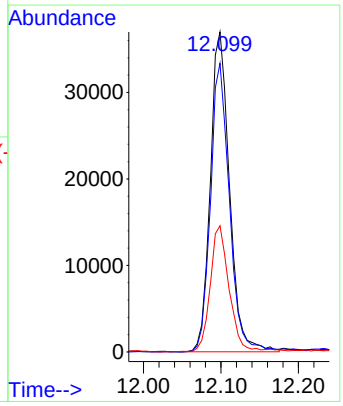
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

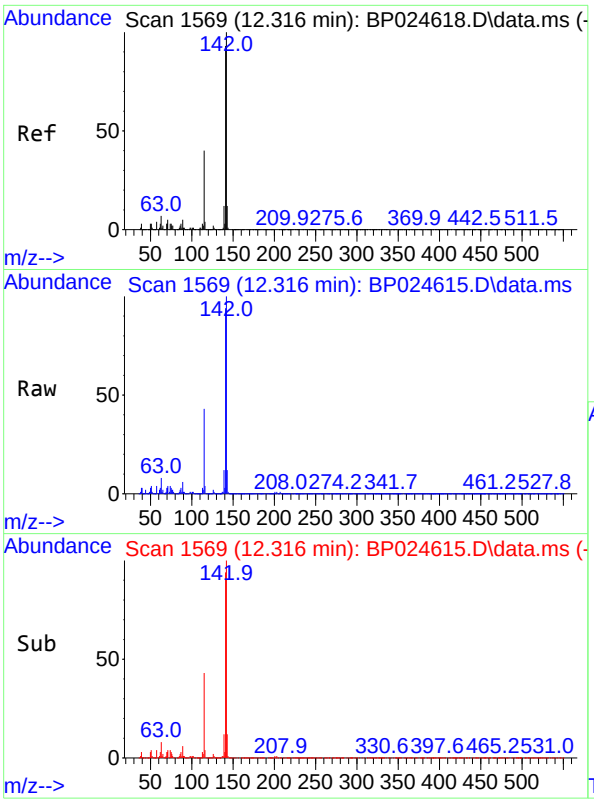


#37
2-Methylnaphthalene
Concen: 5.01 ng
RT: 12.099 min Scan# 1532
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:142 Resp: 63562

Ion	Ratio	Lower	Upper
142	100		
141	90.2	71.2	106.8
115	39.4	30.6	46.0

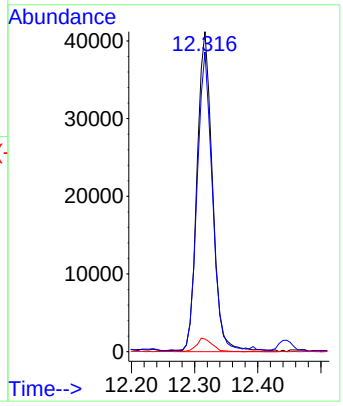




#38
1-Methylnaphthalene
Concen: 5.16 ng
RT: 12.316 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:142 Resp: 7004

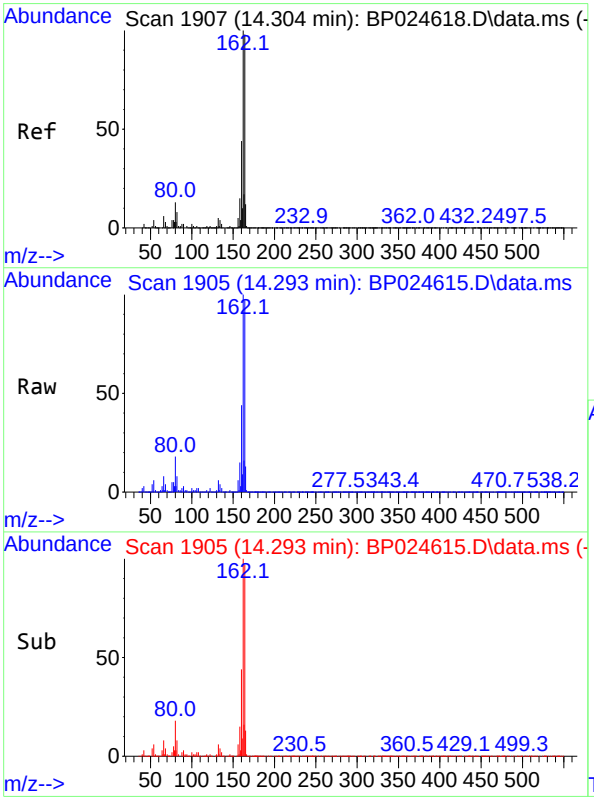
Ion	Ratio	Lower	Upper
142	100		
141	93.7	74.7	112.1
116	4.0	3.4	5.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

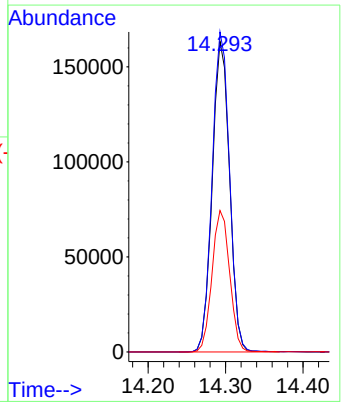
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

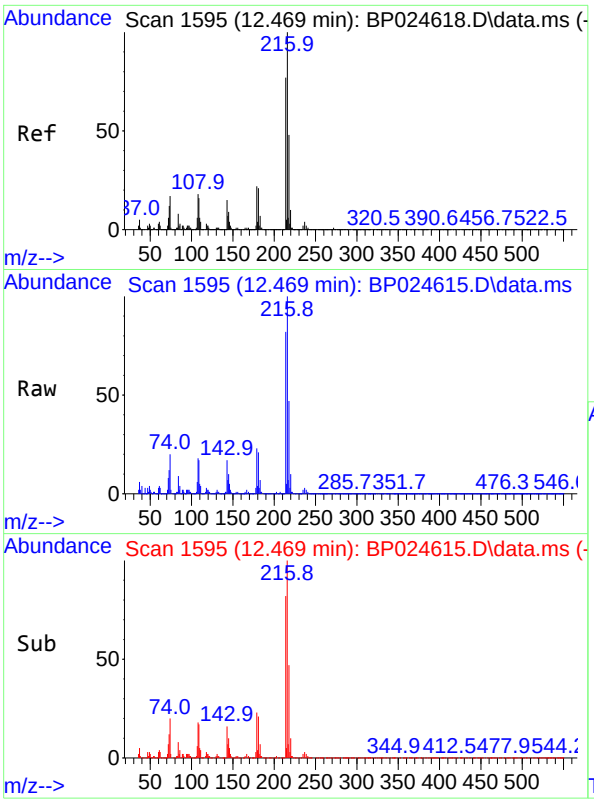


#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.293 min Scan# 1905
Delta R.T. -0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:164 Resp: 254561

Ion	Ratio	Lower	Upper
164	100		
162	103.0	81.8	122.6
160	45.5	36.3	54.5

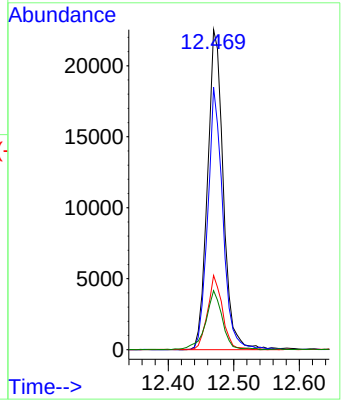




#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.11 ng
RT: 12.469 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:216 Resp: 3773

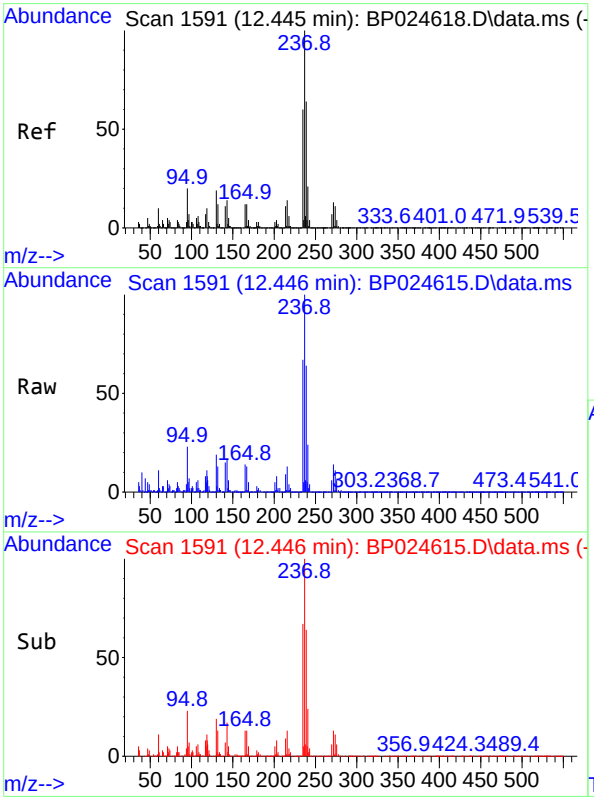
Ion	Ratio	Lower	Upper
216	100		
214	78.4	62.3	93.5
179	22.0	17.7	26.5
108	19.0	16.0	24.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

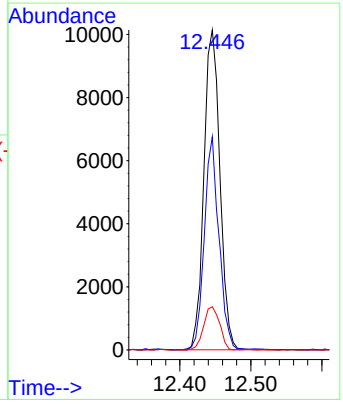
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

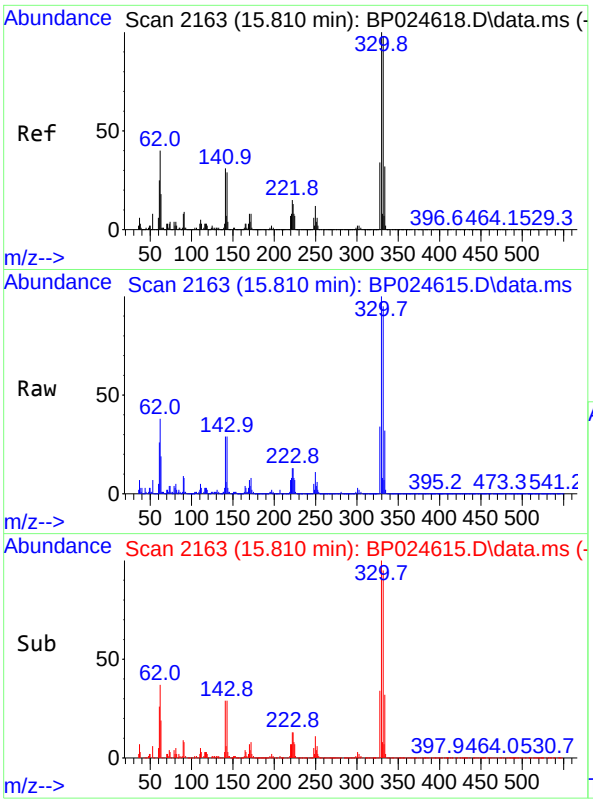


#41
Hexachlorocyclopentadiene
Concen: 3.56 ng
RT: 12.446 min Scan# 1591
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:237 Resp: 15939

Ion	Ratio	Lower	Upper
237	100		
235	66.6	39.9	79.9
272	13.5	0.0	33.2

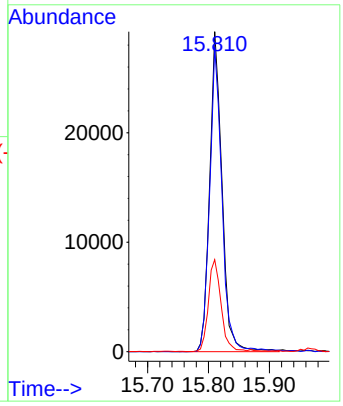




#42
2,4,6-Tribromophenol
Concen: 9.55 ng
RT: 15.810 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:330 Resp: 4121

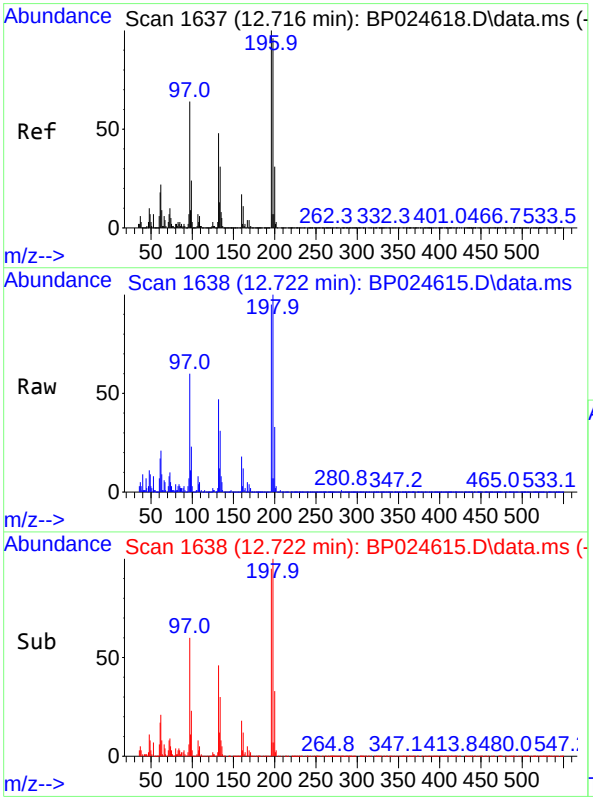
Ion	Ratio	Lower	Upper
330	100		
332	95.4	78.2	117.4
141	29.5	24.3	36.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

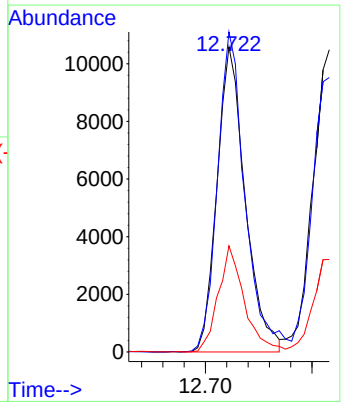
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

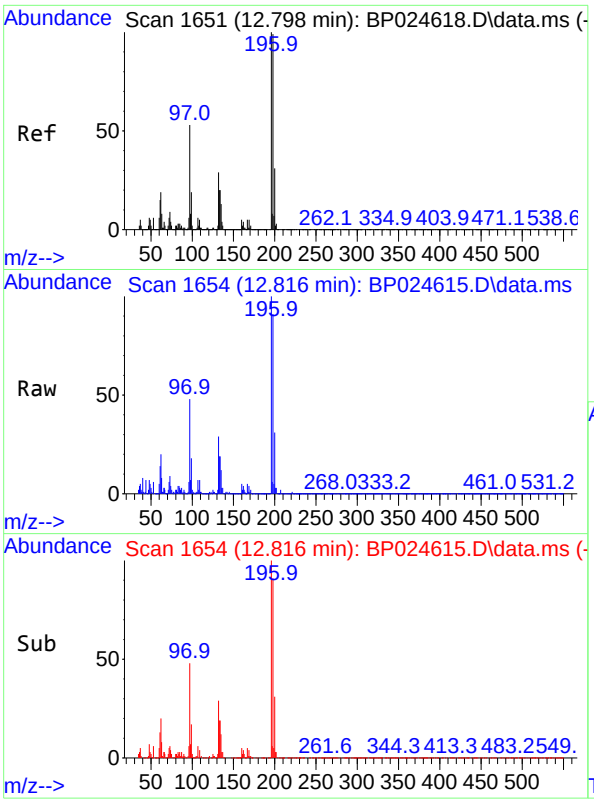


#43
2,4,6-Trichlorophenol
Concen: 4.06 ng
RT: 12.722 min Scan# 1638
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:196 Resp: 19429

Ion	Ratio	Lower	Upper
196	100		
198	104.9	76.9	115.3
200	34.8	25.2	37.8

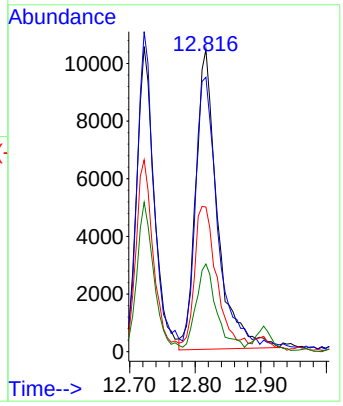




#44
2,4,5-Trichlorophenol
Concen: 4.49 ng
RT: 12.816 min Scan# 1
Delta R.T. 0.018 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:196 Resp: 2391

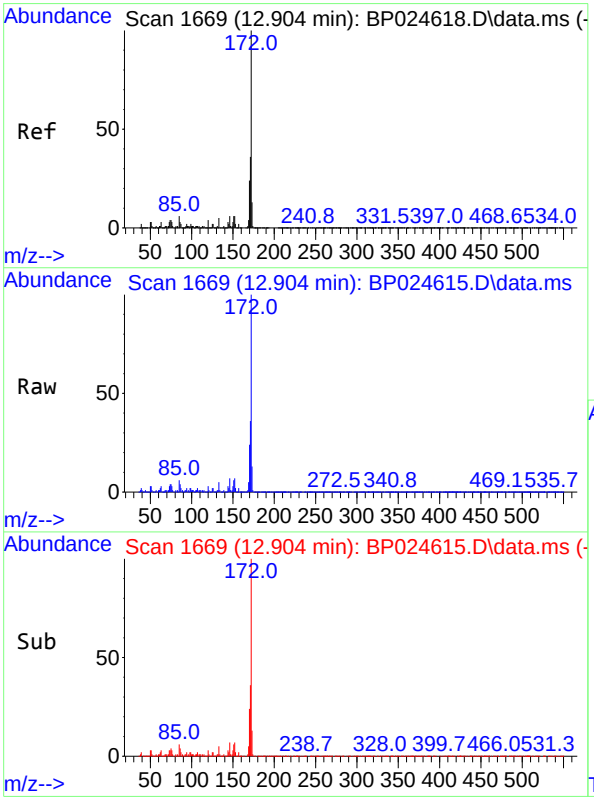
Ion	Ratio	Lower	Upper
196	100		
198	90.8	79.2	118.8
97	47.8	42.3	63.5
132	29.0	23.3	34.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

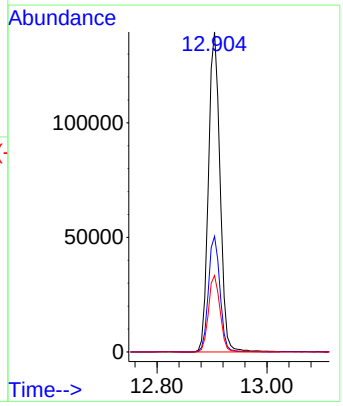
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

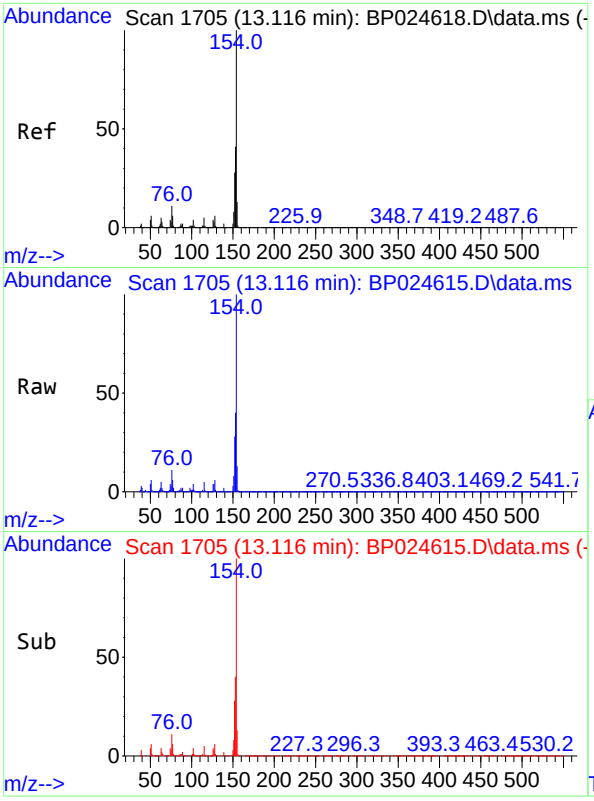


#45
2-Fluorobiphenyl
Concen: 10.48 ng
RT: 12.904 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:172 Resp: 203719

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.8	43.2
170	23.9	18.8	28.2

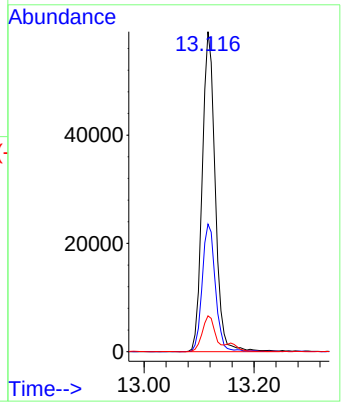




#46
1,1'-Biphenyl
Concen: 5.15 ng
RT: 13.116 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:154 Resp: 9695

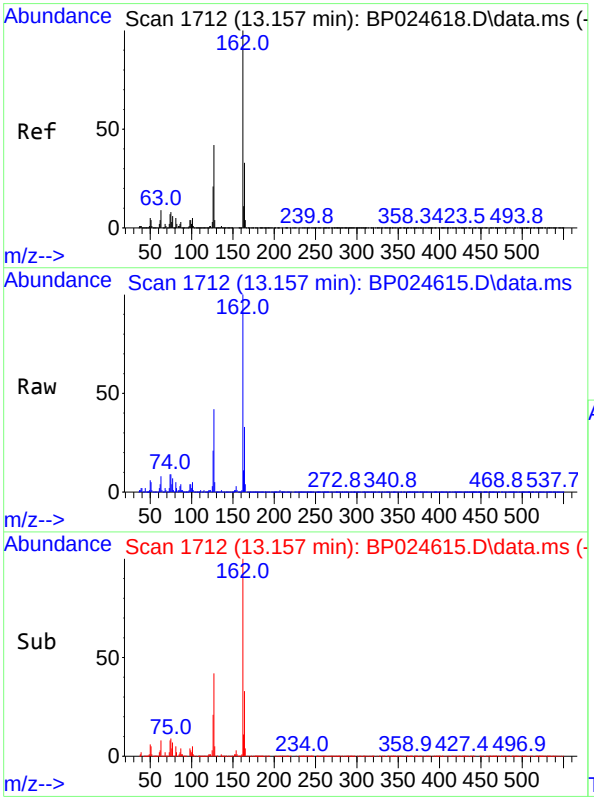
Ion	Ratio	Lower	Upper
154	100		
153	39.8	21.0	61.0
76	11.2	0.0	31.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

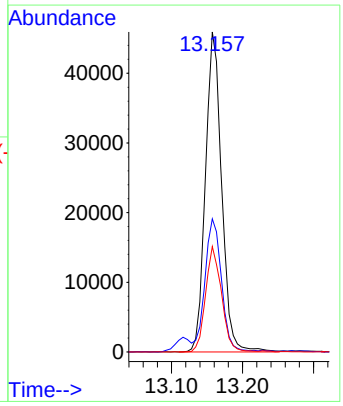
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

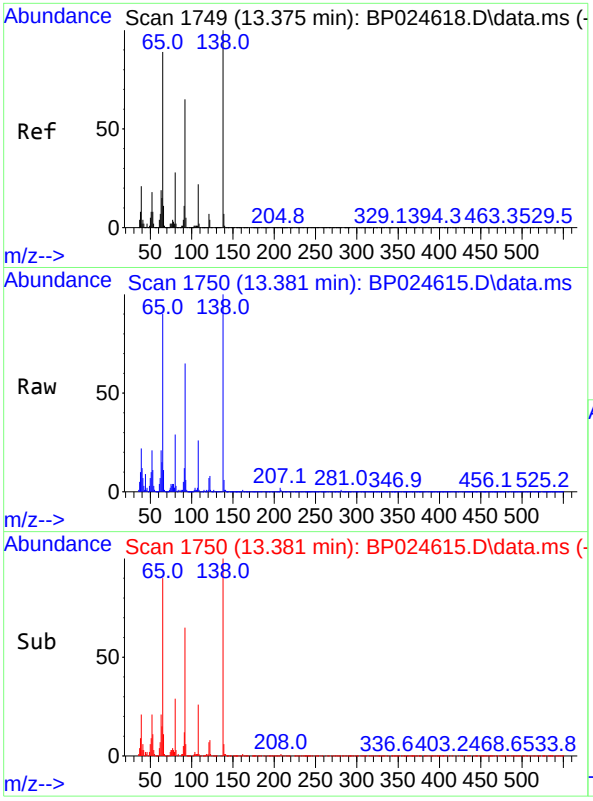


#47
2-Chloronaphthalene
Concen: 5.09 ng
RT: 13.157 min Scan# 1712
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:162 Resp: 72977

Ion	Ratio	Lower	Upper
162	100		
127	41.6	33.8	50.6
164	33.0	26.0	39.0

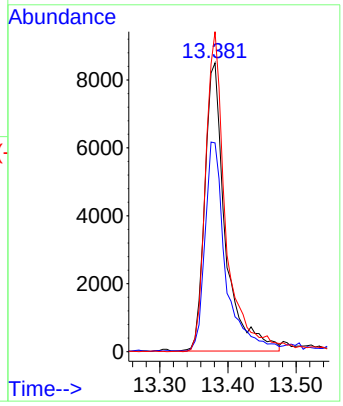




#48
2-Nitroaniline
Concen: 4.19 ng
RT: 13.381 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 65 Resp: 1777

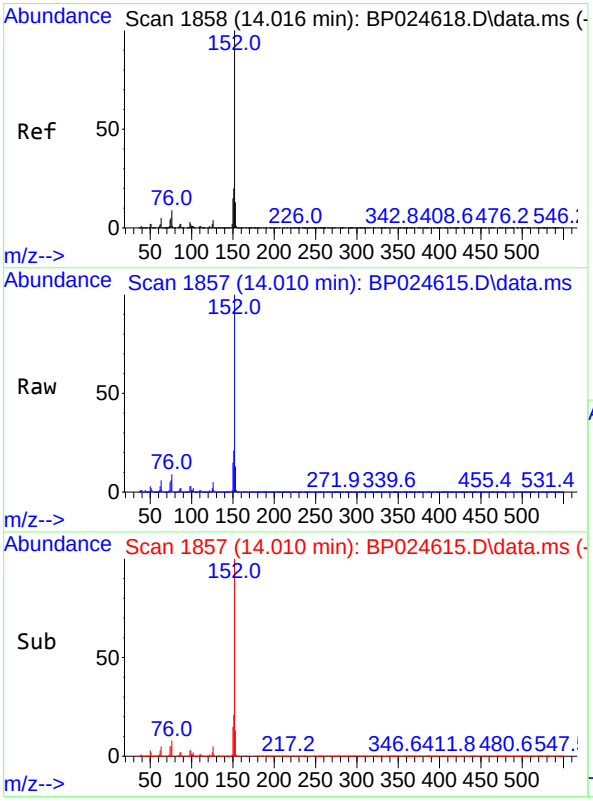
Ion	Ratio	Lower	Upper
65	100		
92	72.3	58.7	88.1
138	110.8	90.2	135.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

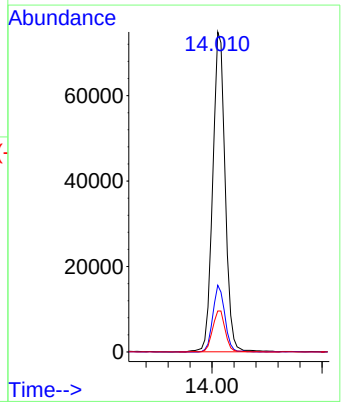
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

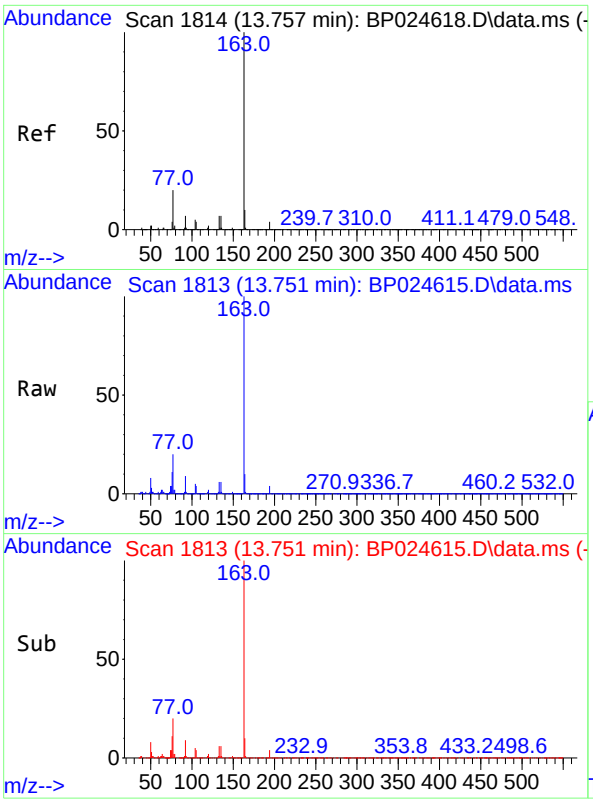


#49
Acenaphthylene
Concen: 4.89 ng
RT: 14.010 min Scan# 1857
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:152 Resp: 117448

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.2	24.4
153	12.8	10.2	15.4

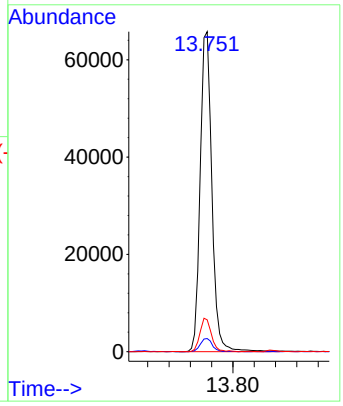




#50
Dimethylphthalate
Concen: 5.15 ng
RT: 13.751 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:163 Resp: 9994

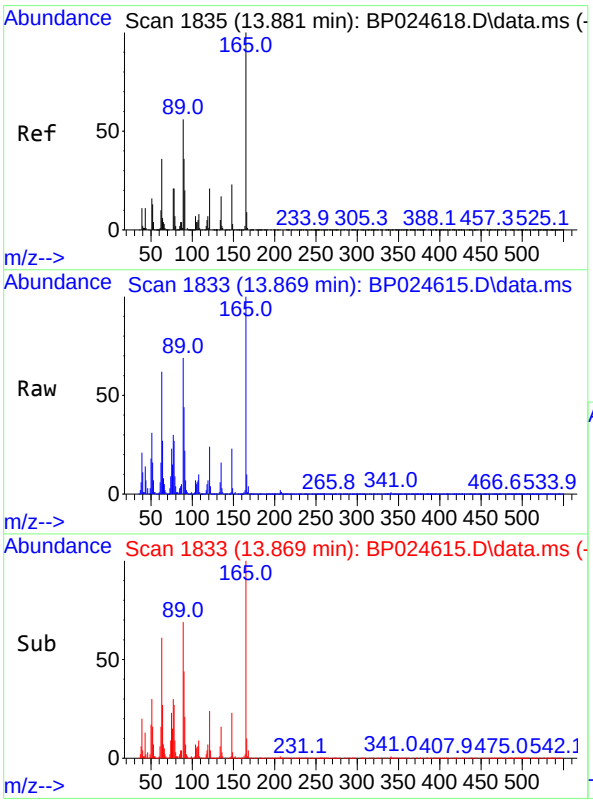
Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	9.9	8.1	12.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

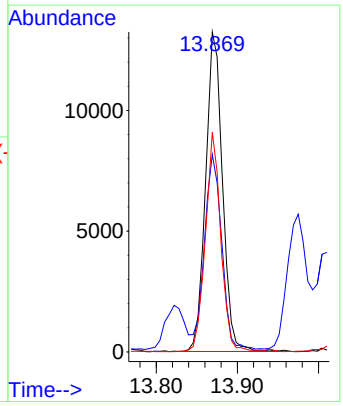
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

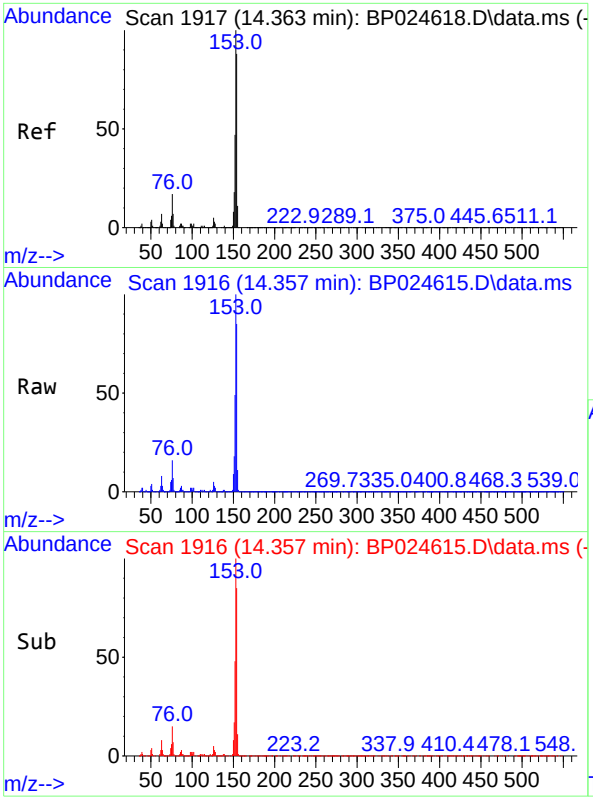


#51
2,6-Dinitrotoluene
Concen: 4.65 ng
RT: 13.869 min Scan# 1833
Delta R.T. -0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:165 Resp: 19052

Ion	Ratio	Lower	Upper
165	100		
63	61.7	42.4	63.6
89	68.7	44.8	67.2#

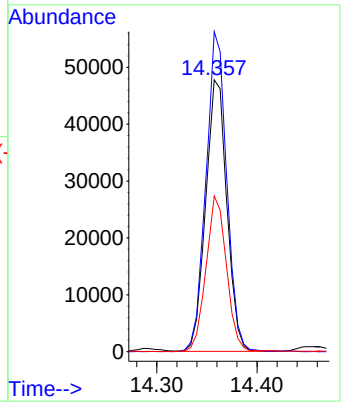




#52
Acenaphthene
Concen: 5.09 ng
RT: 14.357 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:154 Resp: 7030

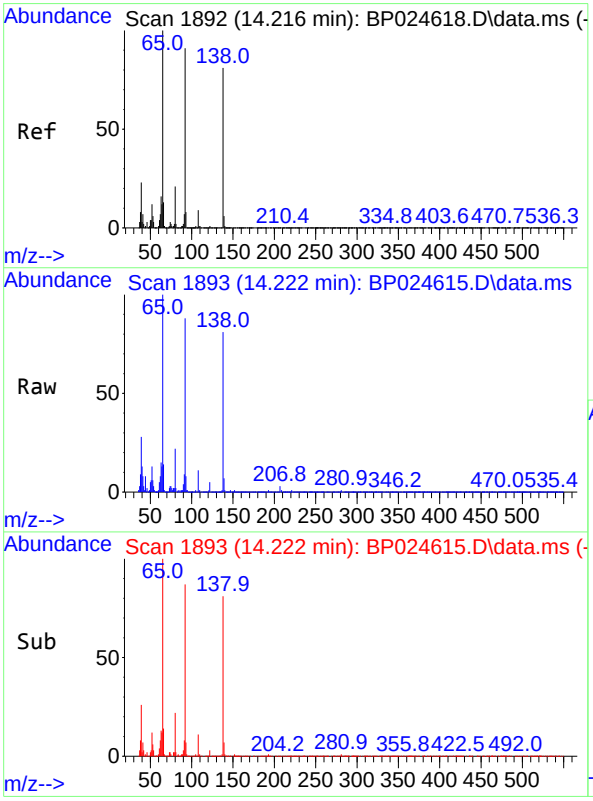
Ion	Ratio	Lower	Upper
154	100		
153	117.7	91.0	136.4
152	57.3	42.9	64.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

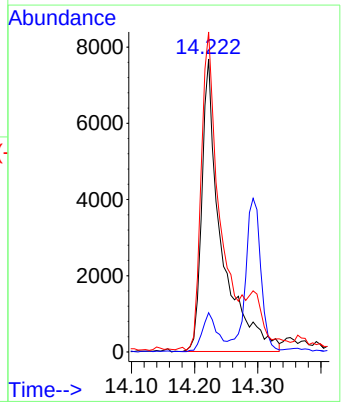
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

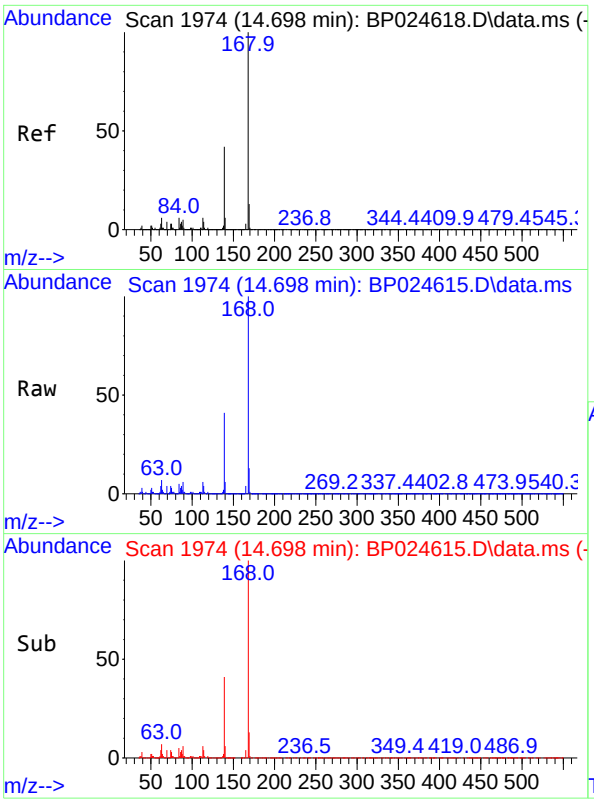


#53
3-Nitroaniline
Concen: 3.92 ng
RT: 14.222 min Scan# 1893
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:138 Resp: 16400

Ion	Ratio	Lower	Upper
138	100		
108	13.4	9.0	13.4
92	109.3	90.1	135.1

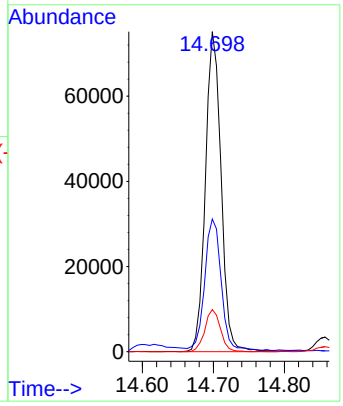




#55
Dibenzofuran
Concen: 5.23 ng
RT: 14.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:168 Resp: 11518

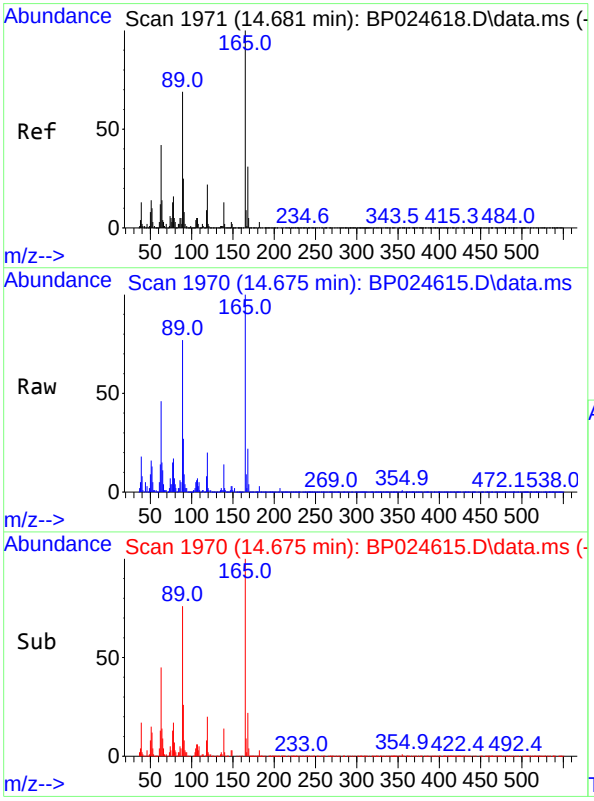
Ion	Ratio	Lower	Upper
168	100		
139	41.5	34.2	51.4
169	13.2	10.8	16.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

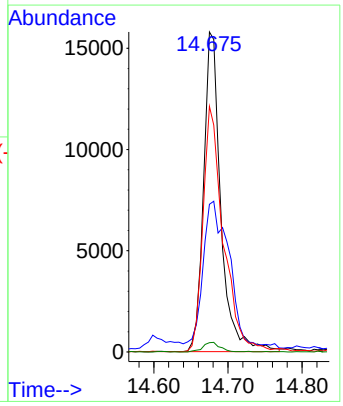
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

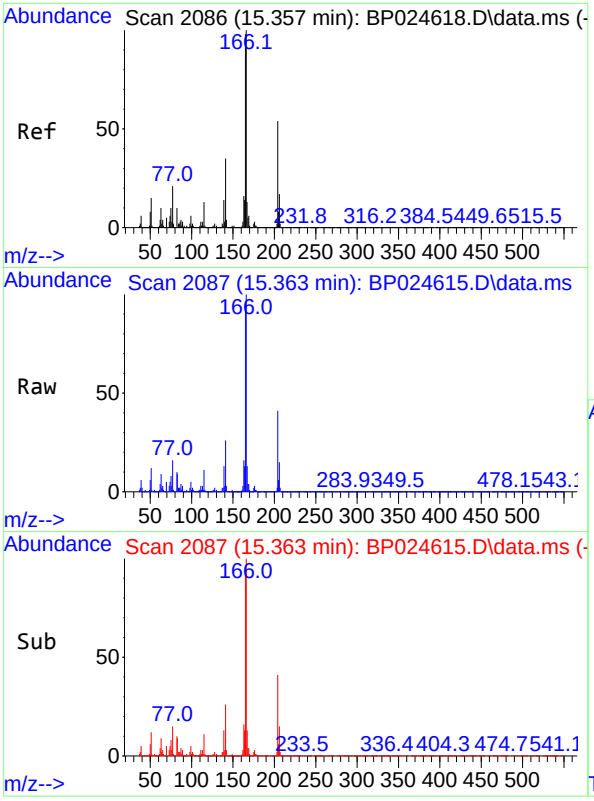


#57
2,4-Dinitrotoluene
Concen: 4.41 ng
RT: 14.675 min Scan# 1970
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:165 Resp: 25481

Ion	Ratio	Lower	Upper
165	100		
63	46.2	33.8	50.6
89	76.8	55.6	83.4
182	2.9	2.4	3.6

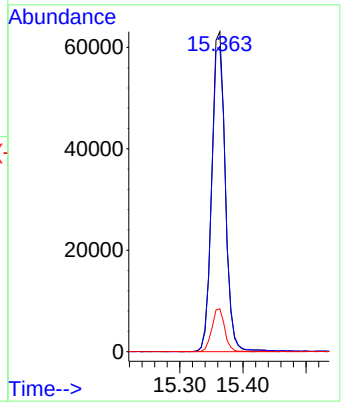




#58
Fluorene
Concen: 5.20 ng
RT: 15.363 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:166 Resp: 9330

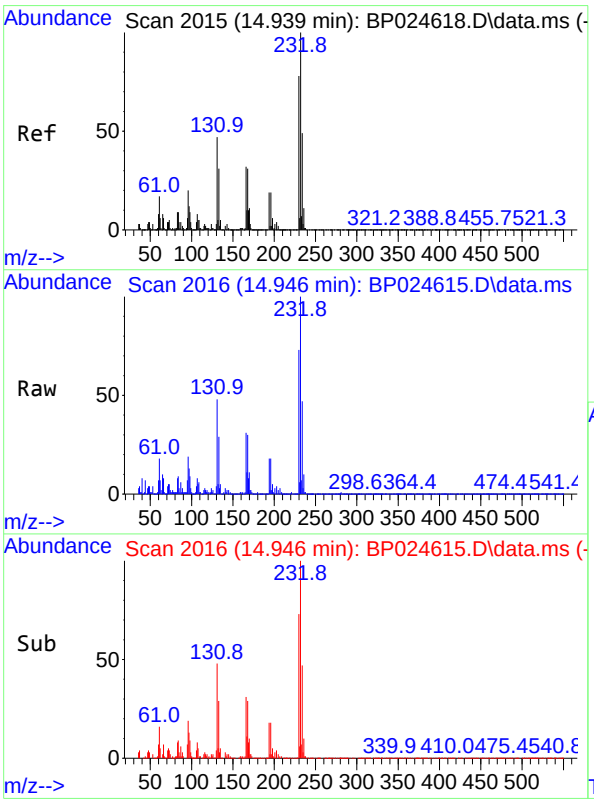
Ion	Ratio	Lower	Upper
166	100		
165	95.4	78.5	117.7
167	13.4	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

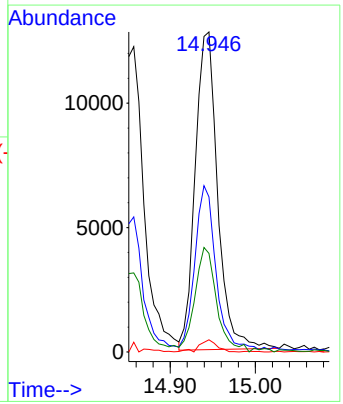
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

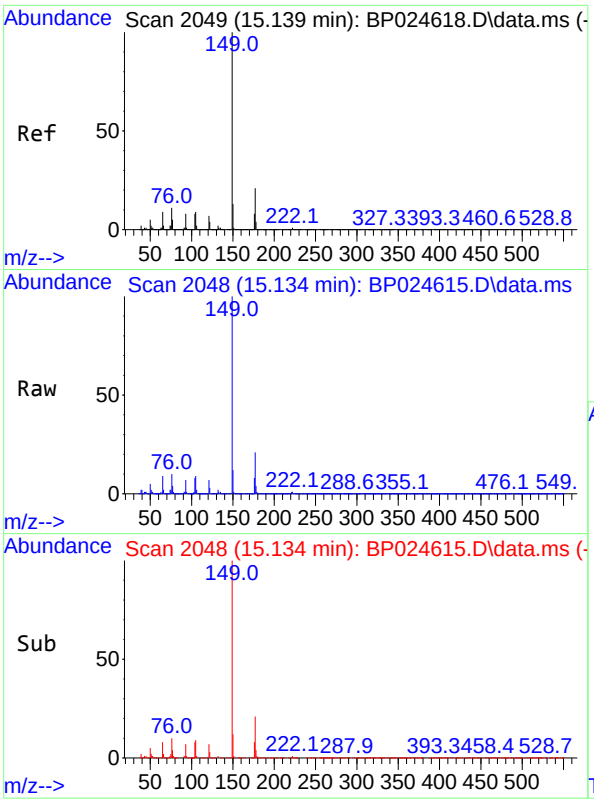


#59
2,3,4,6-Tetrachlorophenol
Concen: 4.73 ng
RT: 14.946 min Scan# 2016
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:232 Resp: 23382

Ion	Ratio	Lower	Upper
232	100		
131	48.6	39.5	59.3
130	3.0	2.2	3.4
166	30.5	25.7	38.5

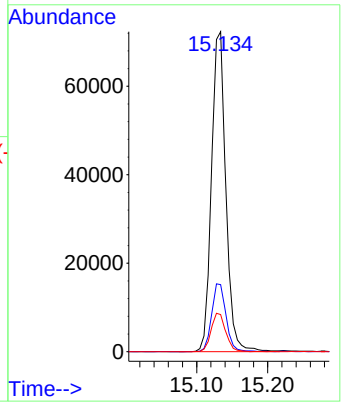




#60
Diethylphthalate
Concen: 5.17 ng
RT: 15.134 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:149 Resp: 10136

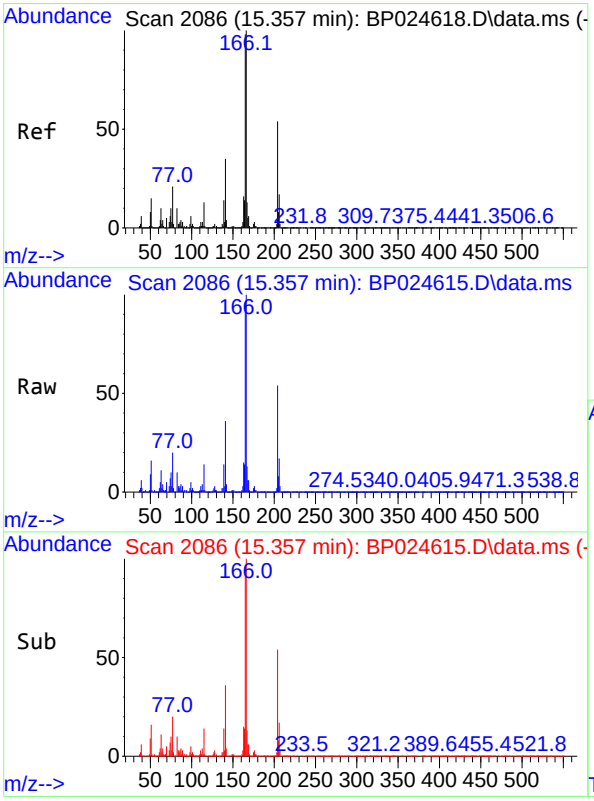
Ion	Ratio	Lower	Upper
149	100		
177	20.9	16.7	25.1
150	11.6	10.2	15.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

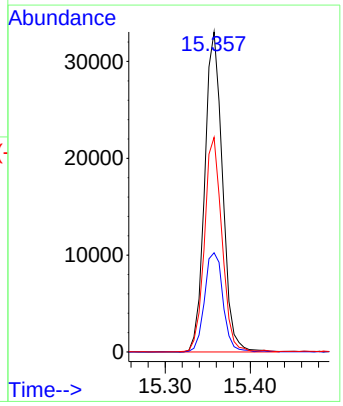
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

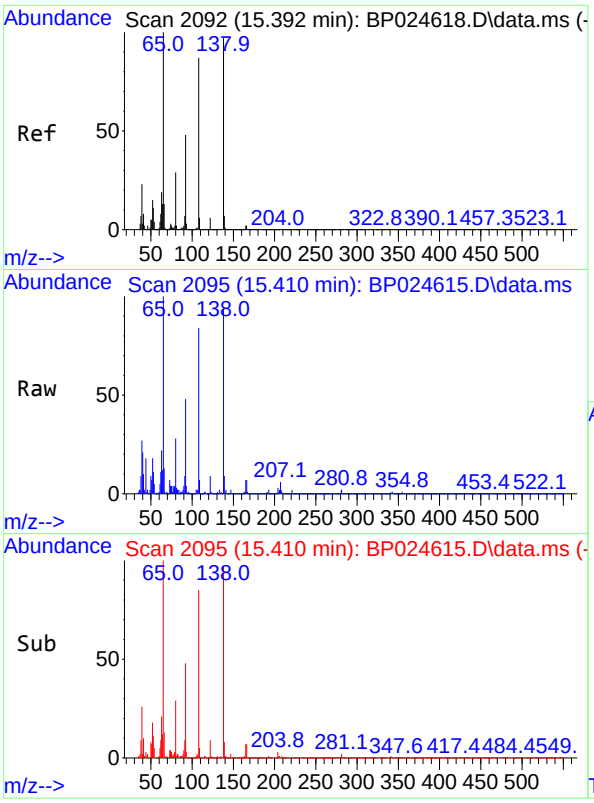


#61
4-Chlorophenyl-phenylether
Concen: 5.35 ng
RT: 15.357 min Scan# 2086
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:204 Resp: 47886

Ion	Ratio	Lower	Upper
204	100		
206	31.0	26.0	39.0
141	67.1	52.9	79.3

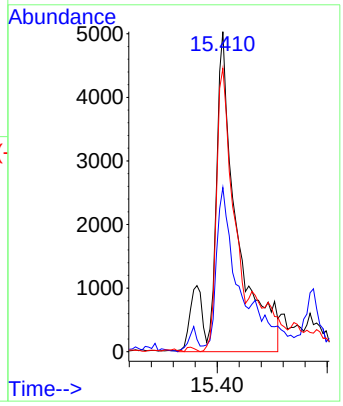




#62
4-Nitroaniline
Concen: 3.55 ng m
RT: 15.410 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:138 Resp: 1448

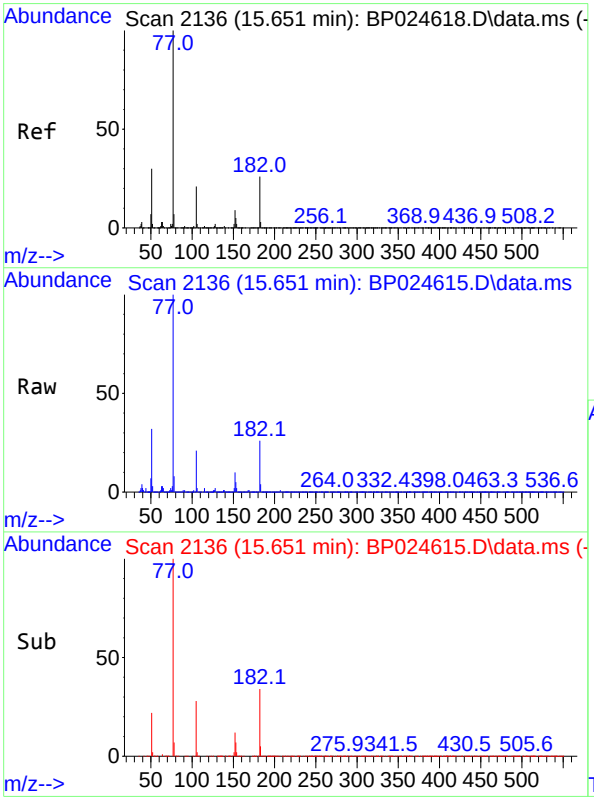
Ion	Ratio	Lower	Upper
138	100		
92	51.3	29.2	69.2
108	88.5	69.0	109.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

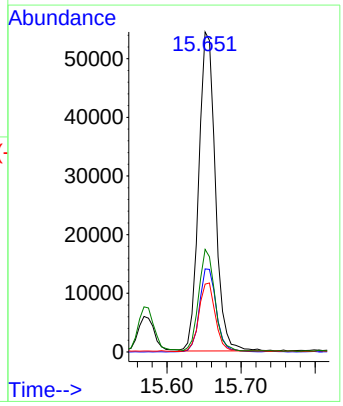
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

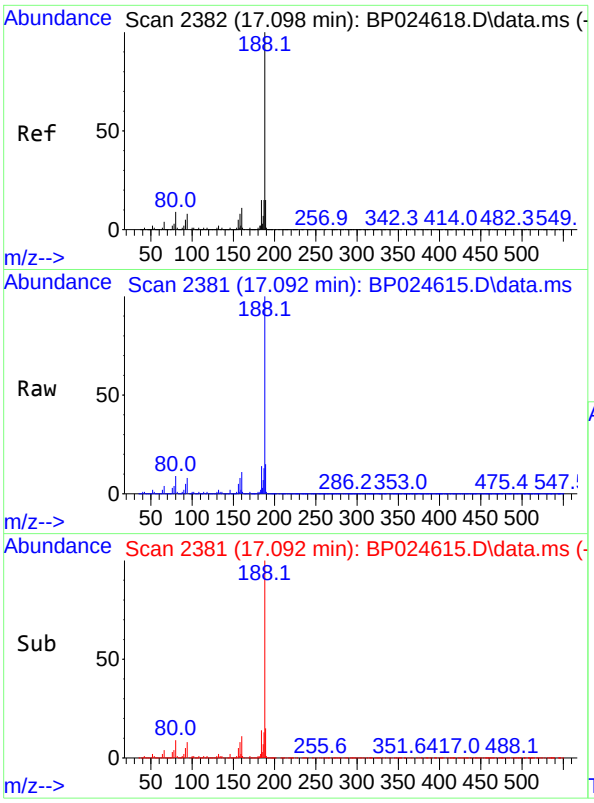


#63
Azobenzene
Concen: 5.03 ng
RT: 15.651 min Scan# 2136
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 77 Resp: 84462

Ion	Ratio	Lower	Upper
77	100		
182	26.0	5.7	45.7
105	21.2	1.3	41.3
51	32.1	10.6	50.6





#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.092 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

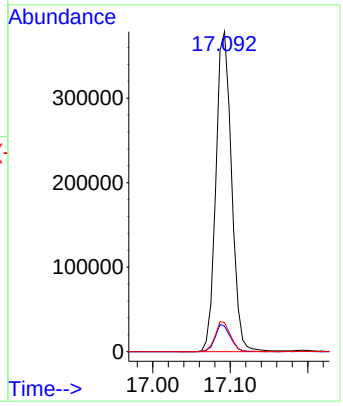
Tgt Ion:188 Resp: 53154

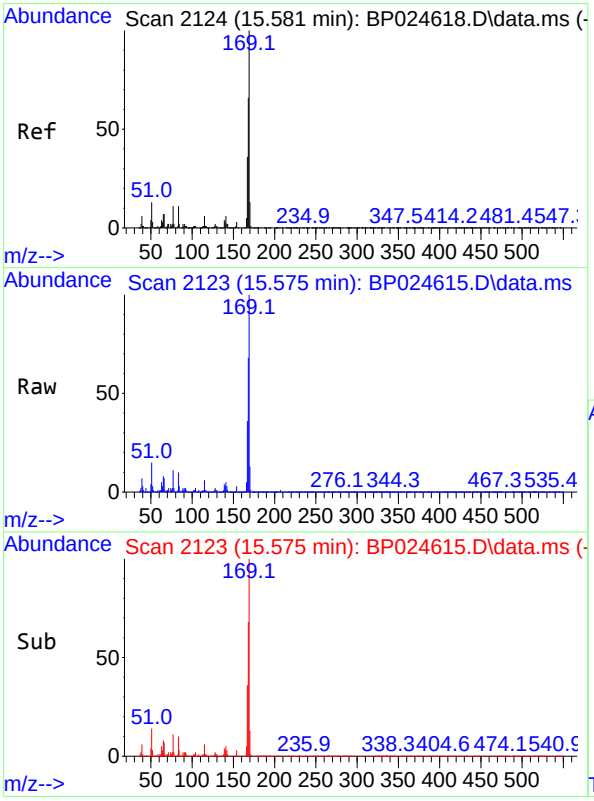
Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.5	9.7
80	9.1	7.3	10.9

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

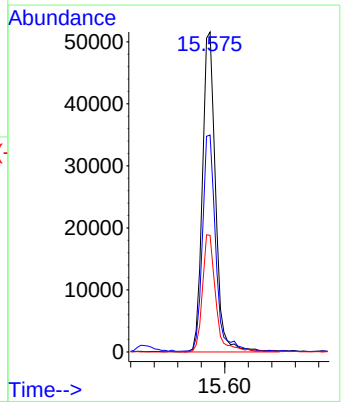


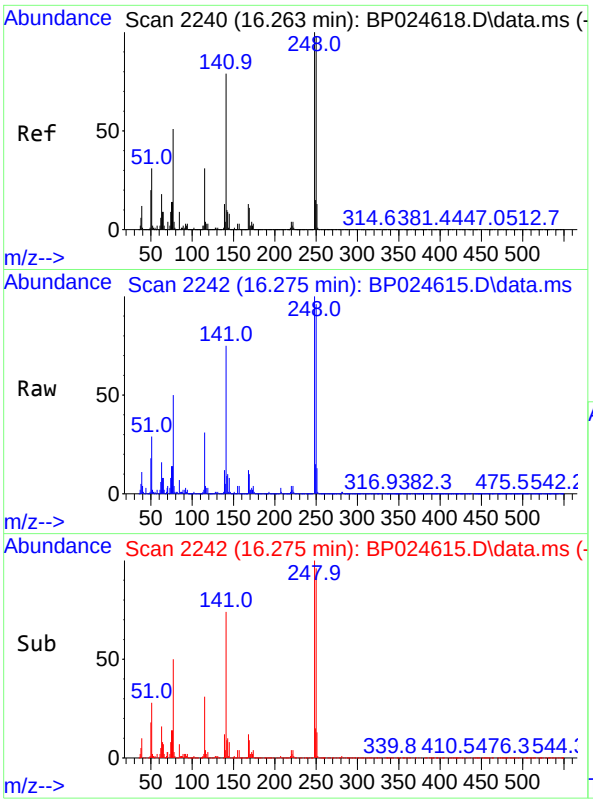


#66
n-Nitrosodiphenylamine
Concen: 4.90 ng
RT: 15.575 min Scan# 2123
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:169 Resp: 80078

Ion	Ratio	Lower	Upper
169	100		
168	67.8	53.2	79.8
167	36.5	28.6	43.0

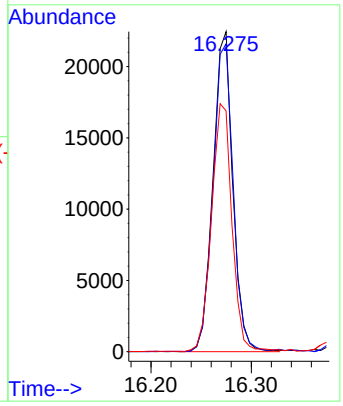




#67
4-Bromophenyl-phenylether
Concen: 4.90 ng
RT: 16.275 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:248 Resp: 3070

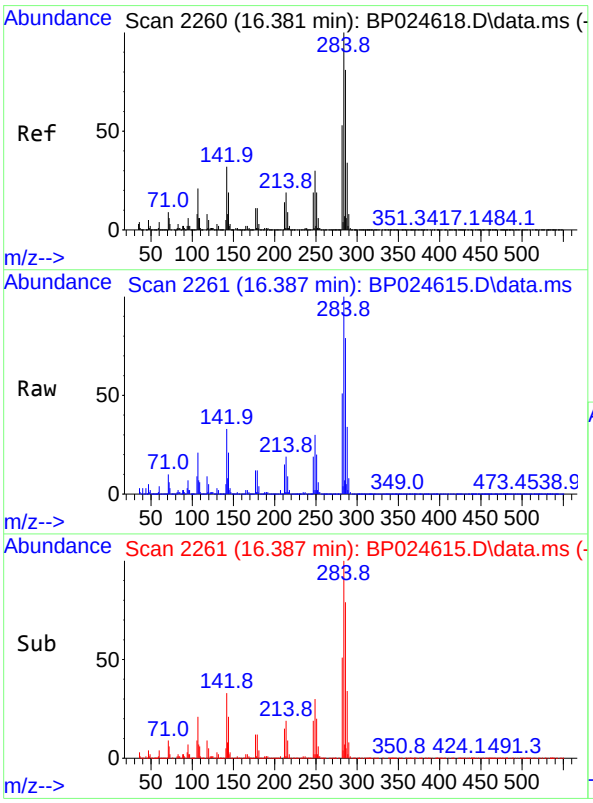
Ion	Ratio	Lower	Upper
248	100		
250	96.2	78.2	117.4
141	75.3	63.0	94.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

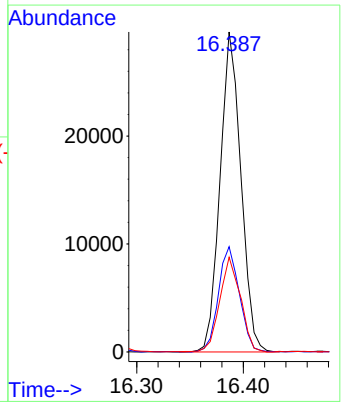
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

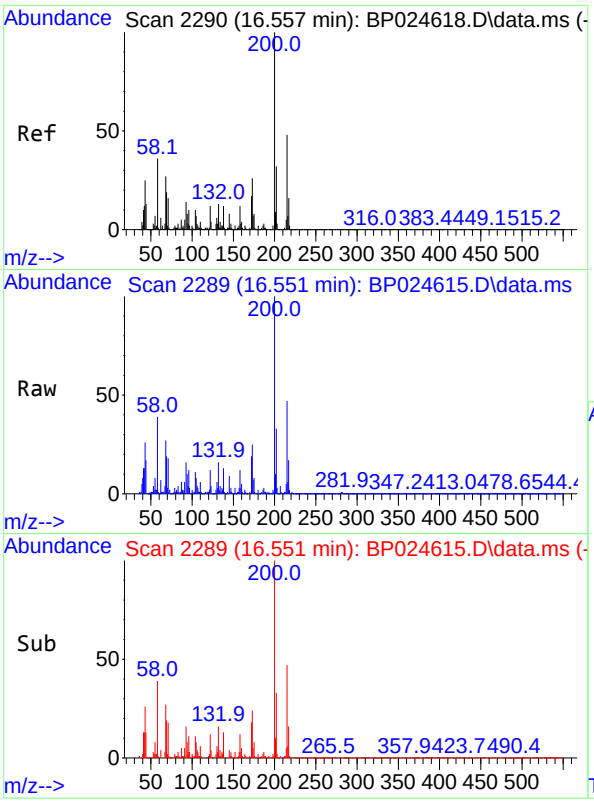


#68
Hexachlorobenzene
Concen: 5.06 ng
RT: 16.387 min Scan# 2261
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:284 Resp: 40234

Ion	Ratio	Lower	Upper
284	100		
142	32.9	25.9	38.9
249	29.6	24.1	36.1

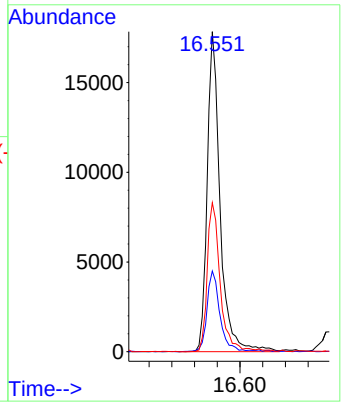




#69
Atrazine
Concen: 4.66 ng
RT: 16.551 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:200 Resp: 2790

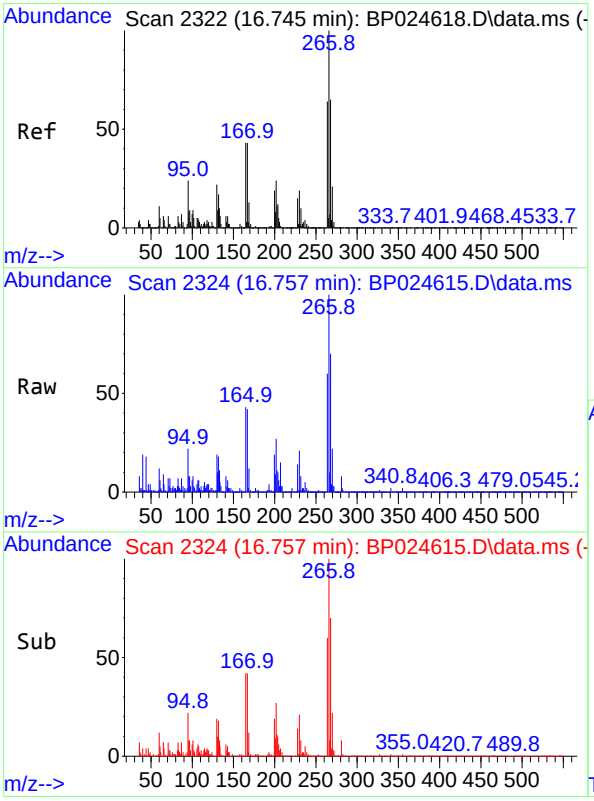
Ion	Ratio	Lower	Upper
200	100		
173	25.2	5.9	45.9
215	46.5	28.3	68.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

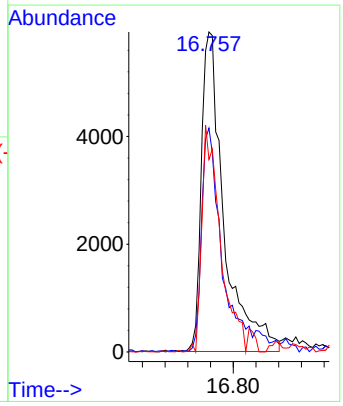
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

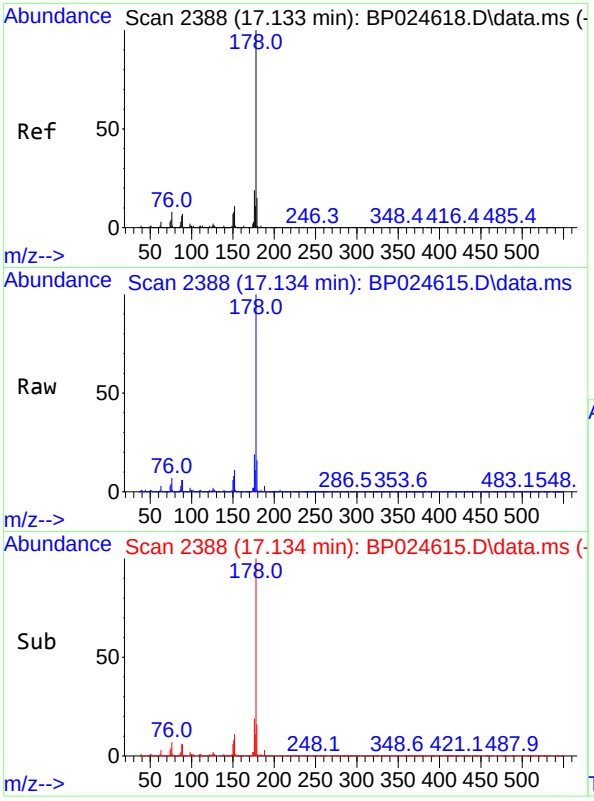


#70
Pentachlorophenol
Concen: 3.68 ng
RT: 16.757 min Scan# 2324
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:266 Resp: 16456

Ion	Ratio	Lower	Upper
266	100		
268	69.9	52.2	78.4
264	60.1	51.1	76.7

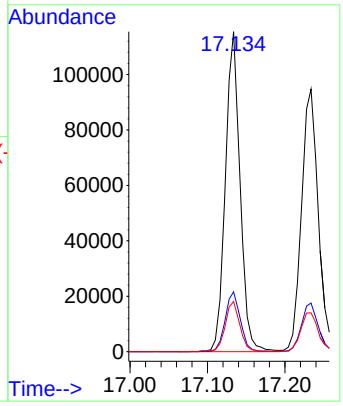




#71
Phenanthrene
Concen: 5.14 ng
RT: 17.134 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:178 Resp: 15203

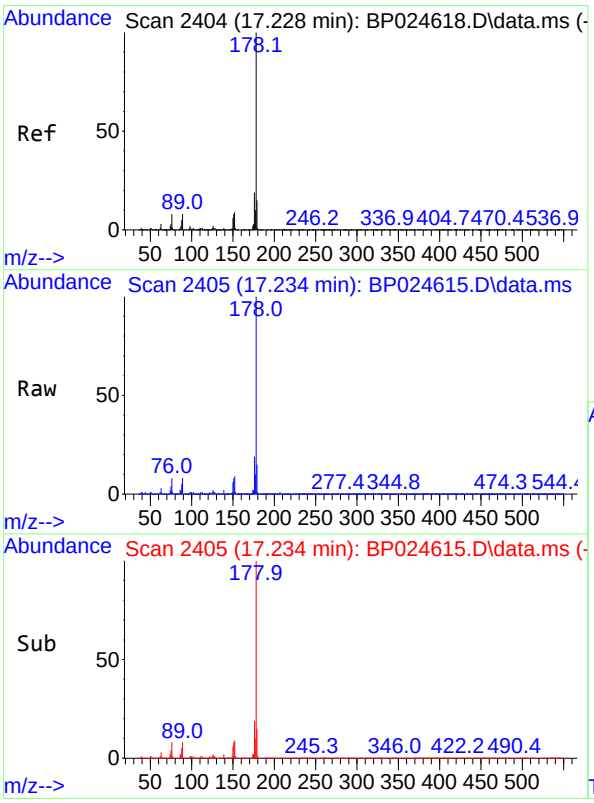
Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.7	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations
APPROVED

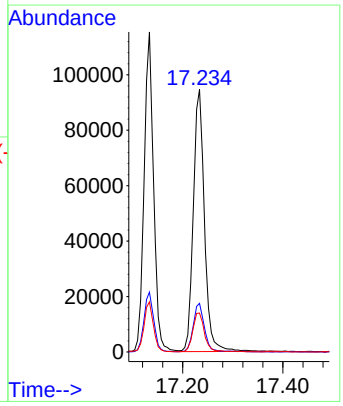
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

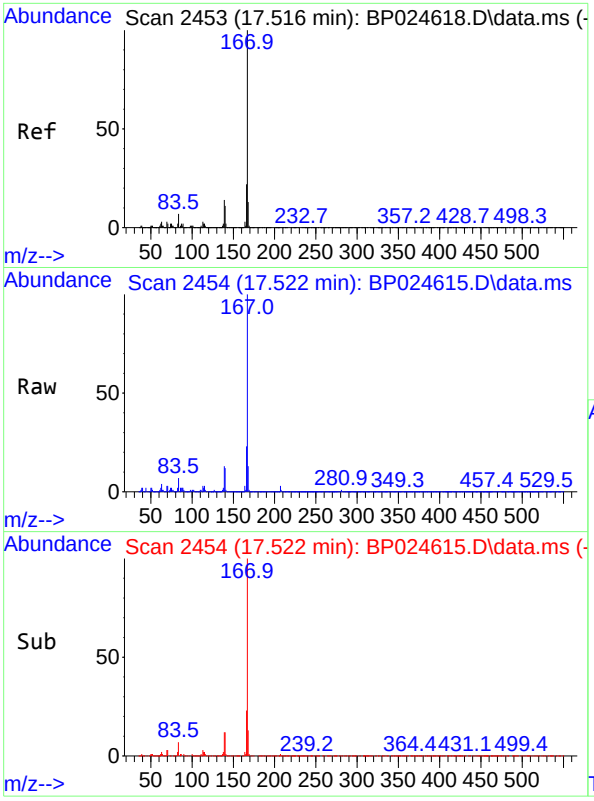


#72
Anthracene
Concen: 4.90 ng
RT: 17.234 min Scan# 2405
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:178 Resp: 145809

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.4
179	14.8	12.2	18.2

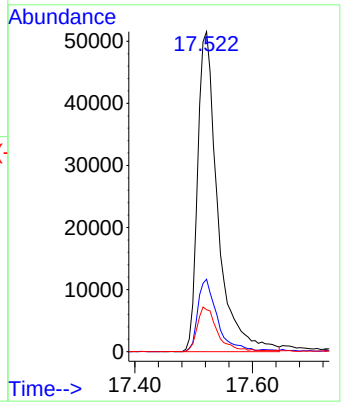




#73
Carbazole
Concen: 4.56 ng
RT: 17.522 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:167 Resp: 12266

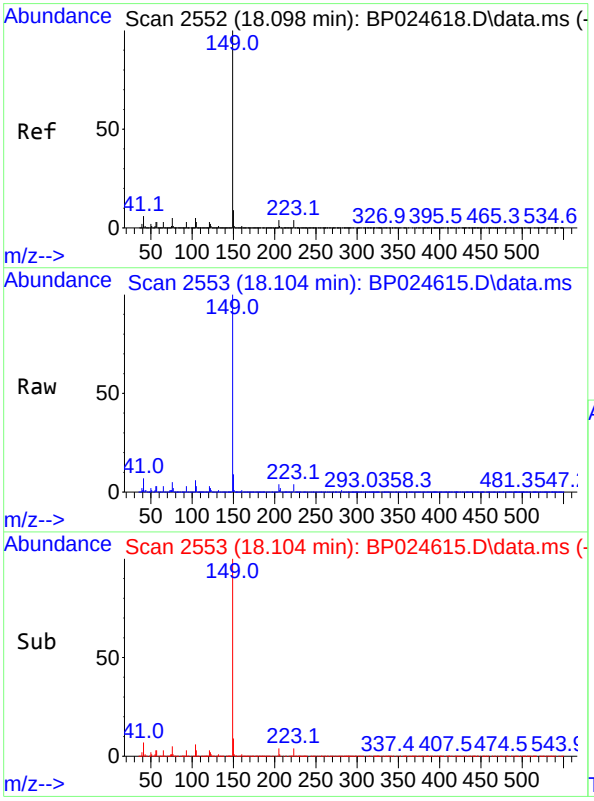
Ion	Ratio	Lower	Upper
167	100		
166	22.6	17.7	26.5
139	13.1	11.3	16.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

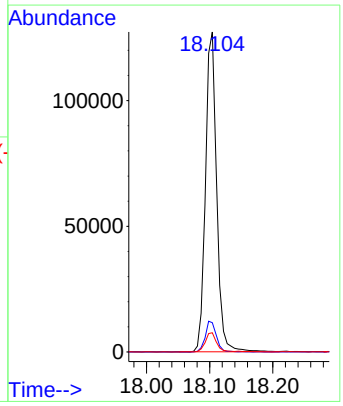
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

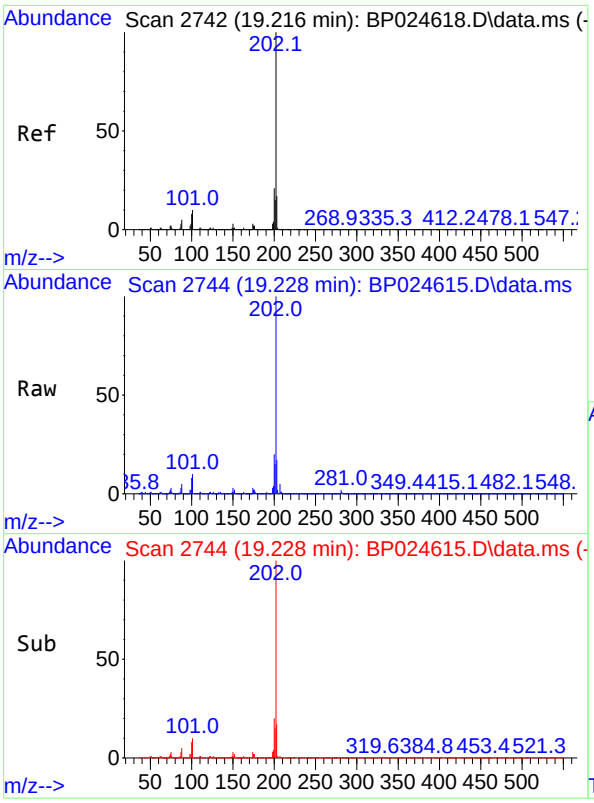


#74
Di-n-butylphthalate
Concen: 4.54 ng
RT: 18.104 min Scan# 2553
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:149 Resp: 157014

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	6.0	4.3	6.5

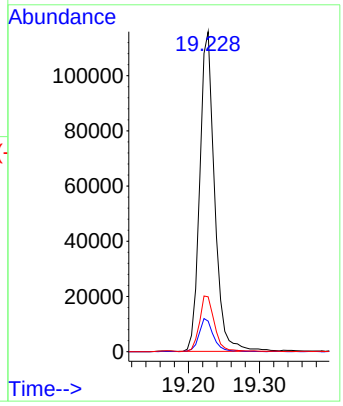




#75
Fluoranthene
Concen: 4.89 ng
RT: 19.228 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:202 Resp: 16886

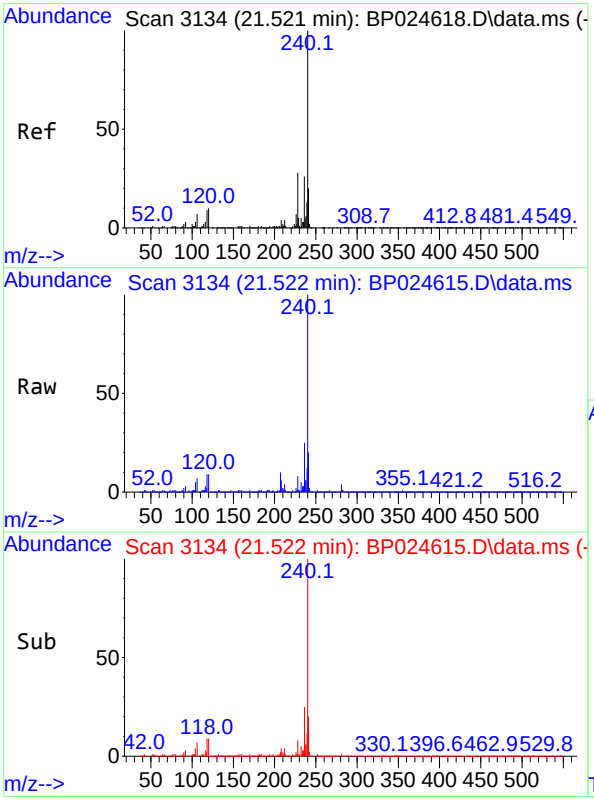
Ion	Ratio	Lower	Upper
202	100		
101	9.5	0.0	30.3
203	17.2	0.0	37.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

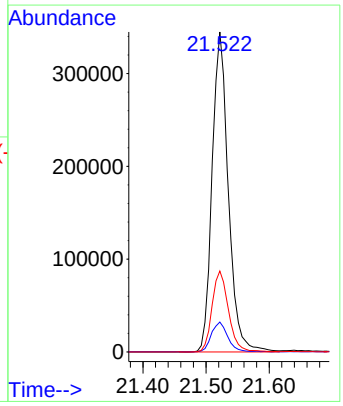
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

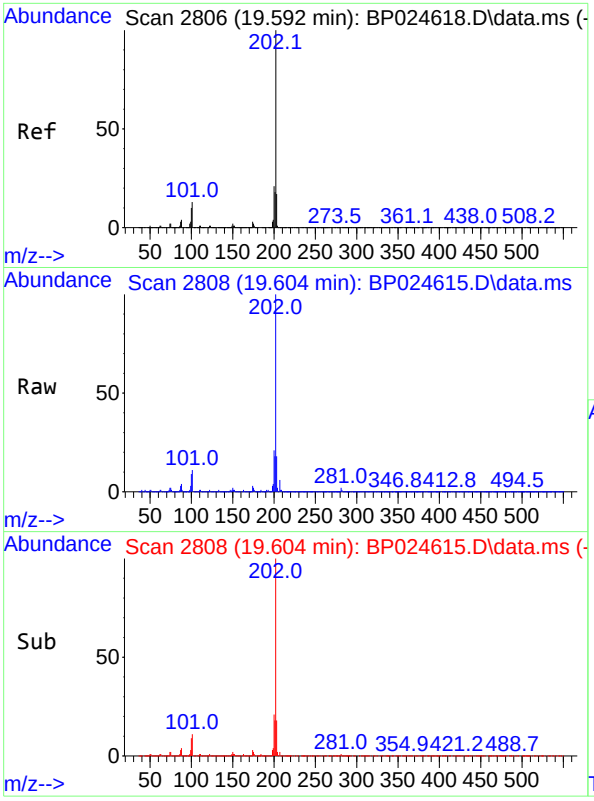


#76
Chrysene-d12
Concen: 20.00 ng
RT: 21.522 min Scan# 3134
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:240 Resp: 614288

Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.8	11.6
236	25.3	20.6	31.0

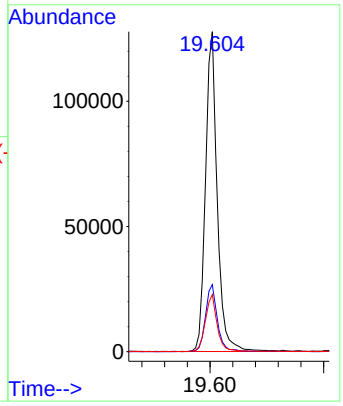




#78
Pyrene
Concen: 4.94 ng
RT: 19.604 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:202 Resp: 18181

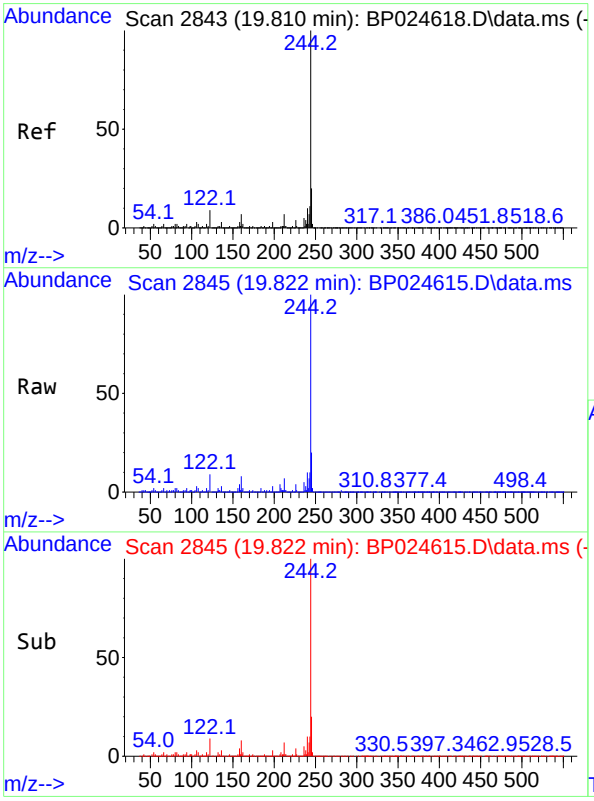
Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.8	13.9	20.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

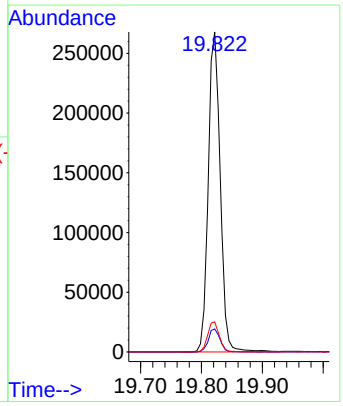
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

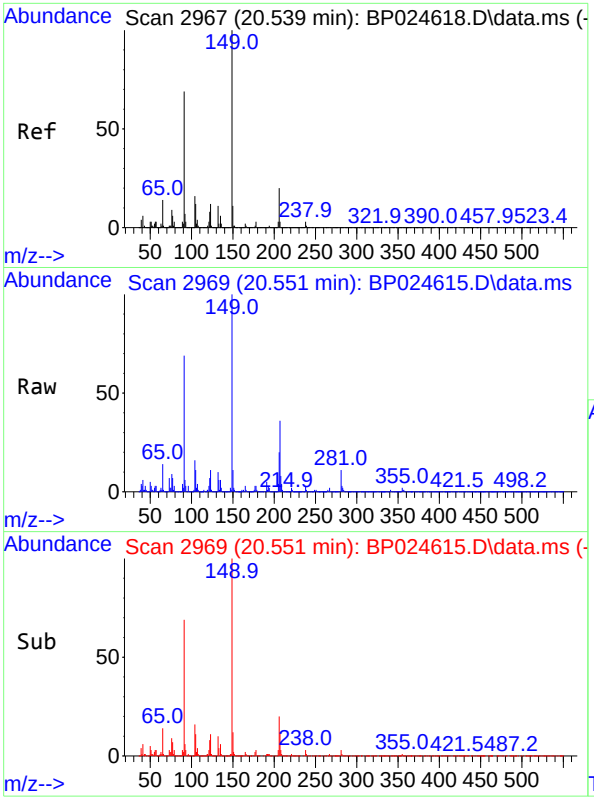


#79
Terphenyl-d14
Concen: 10.22 ng
RT: 19.822 min Scan# 2845
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:244 Resp: 366245

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.5	8.3
122	9.4	7.4	11.0

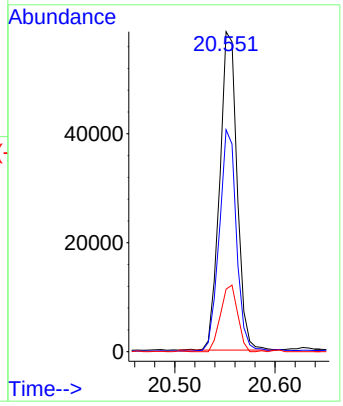




#80
Butylbenzylphthalate
Concen: 4.30 ng
RT: 20.551 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:149 Resp: 7034

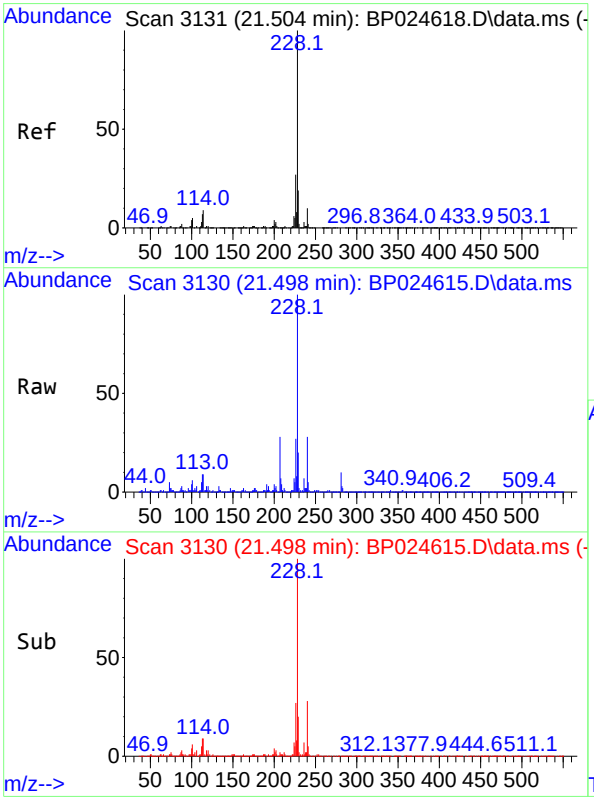
Ion	Ratio	Lower	Upper
149	100		
91	69.3	55.4	83.0
206	19.5	16.2	24.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

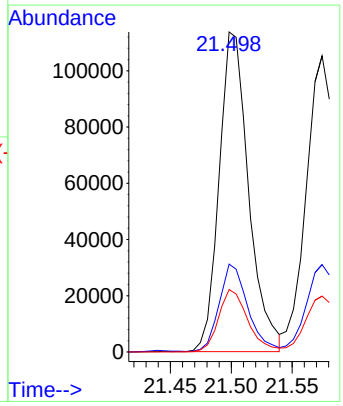
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

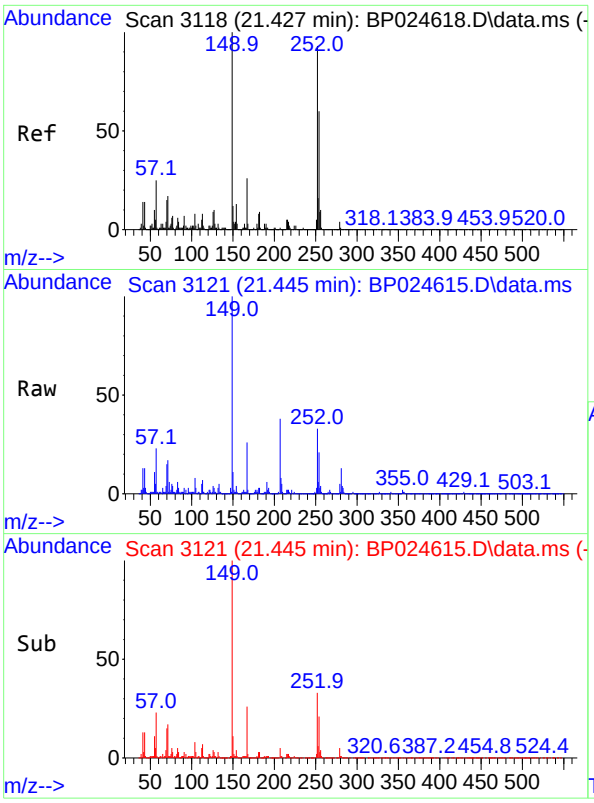


#81
Benzo(a)anthracene
Concen: 4.98 ng
RT: 21.498 min Scan# 3130
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:228 Resp: 192110

Ion	Ratio	Lower	Upper
228	100		
226	27.5	21.4	32.0
229	19.5	15.5	23.3

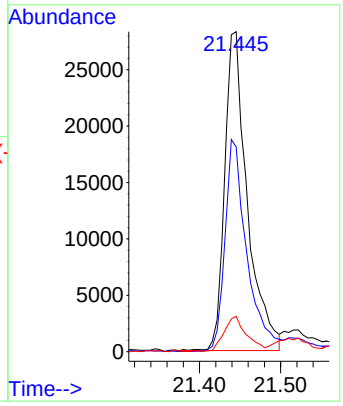




#82
3,3'-Dichlorobenzidine
Concen: 3.82 ng
RT: 21.445 min Scan# 3
Delta R.T. 0.018 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:252 Resp: 5479

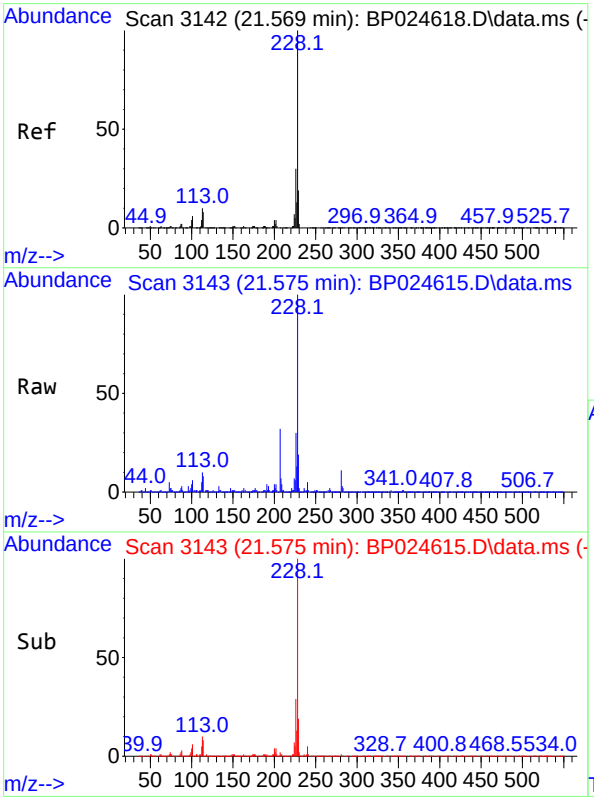
Ion	Ratio	Lower	Upper
252	100		
254	64.0	51.8	77.6
126	11.0	7.7	11.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

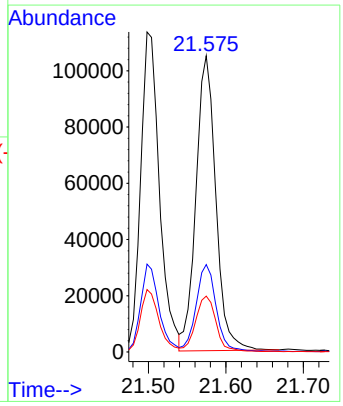
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

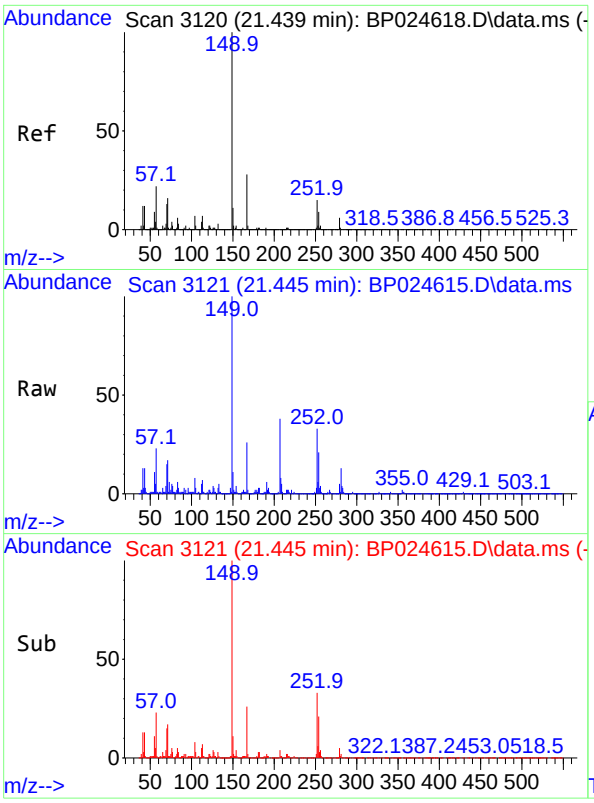


#83
Chrysene
Concen: 5.10 ng
RT: 21.575 min Scan# 3143
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:228 Resp: 186449

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.9	35.9
229	18.9	15.5	23.3





#84
Bis(2-ethylhexyl)phthalate
Concen: 4.29 ng
RT: 21.445 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

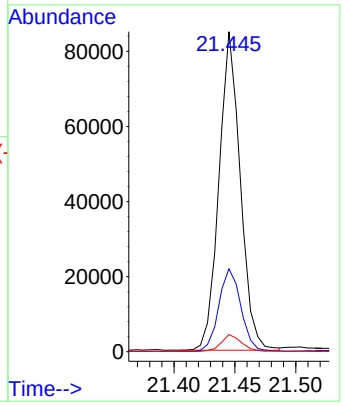
Tgt Ion:149 Resp: 10328

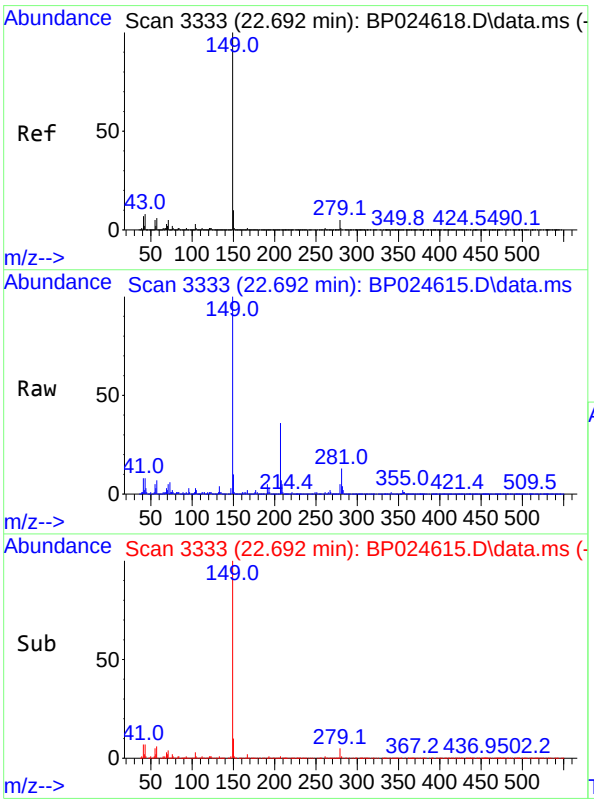
Ion	Ratio	Lower	Upper
149	100		
167	25.9	22.1	33.1
279	5.4	4.6	6.8

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

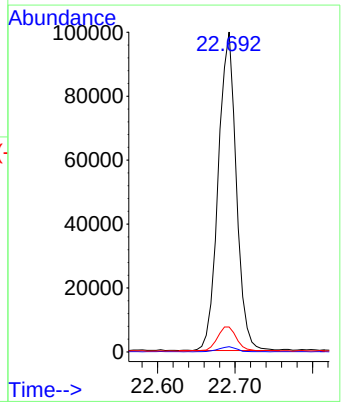


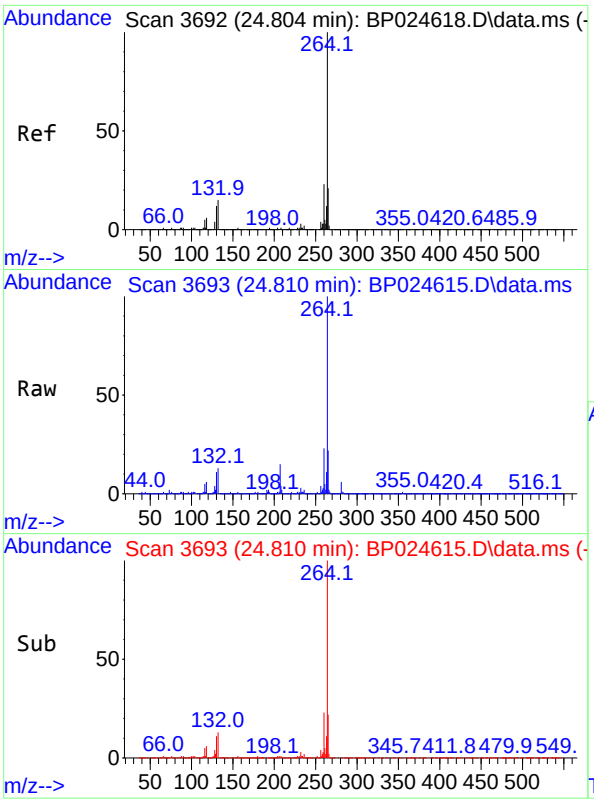


#85
Di-n-octyl phthalate
Concen: 4.09 ng
RT: 22.692 min Scan# 3333
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:149 Resp: 160883

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	8.2	6.3	9.5

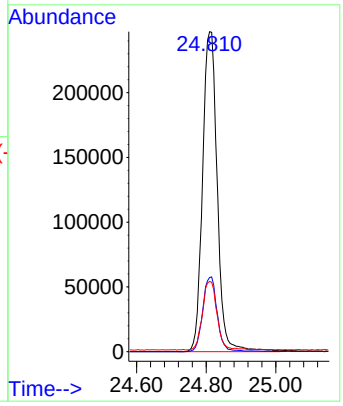




#86
Perylene-d12
Concen: 20.00 ng
RT: 24.810 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:264 Resp: 72426

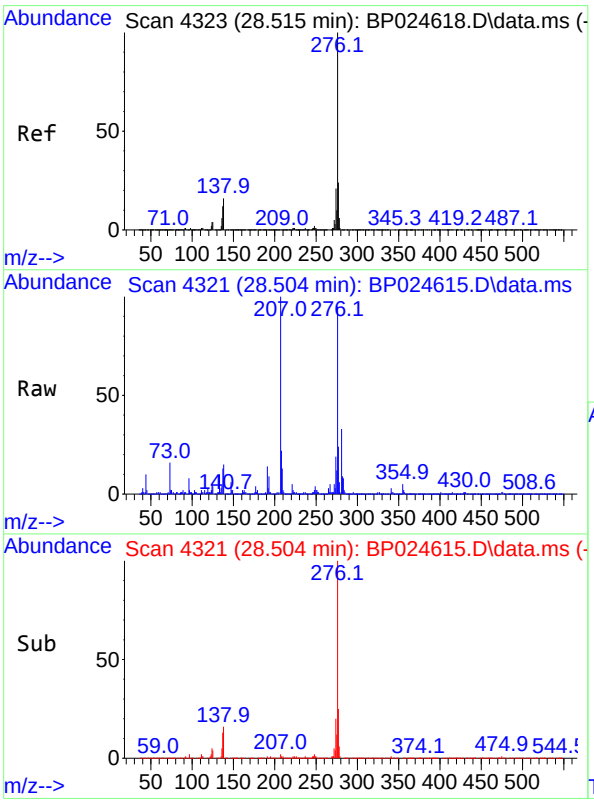
Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.7	28.1
265	22.0	17.0	25.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

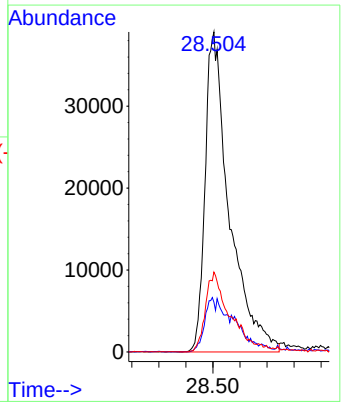
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

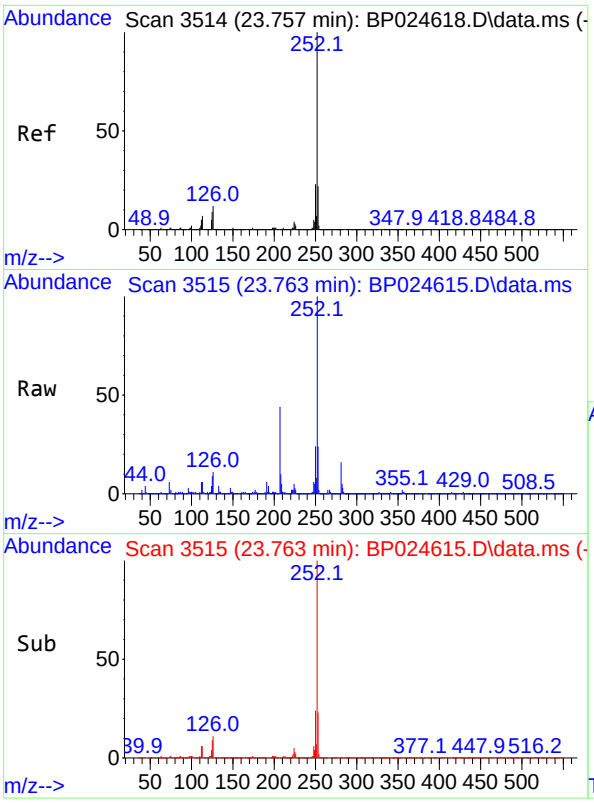


#87
Indeno(1,2,3-cd)pyrene
Concen: 4.59 ng
RT: 28.504 min Scan# 4321
Delta R.T. -0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:276 Resp: 242814

Ion	Ratio	Lower	Upper
276	100		
138	7.4	11.2	16.8#
277	24.4	15.7	23.5#

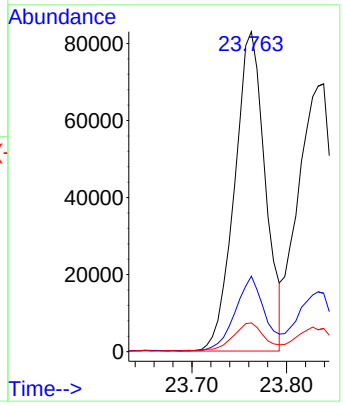




#88
Benzo(b)fluoranthene
Concen: 4.49 ng
RT: 23.763 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:252 Resp: 18605

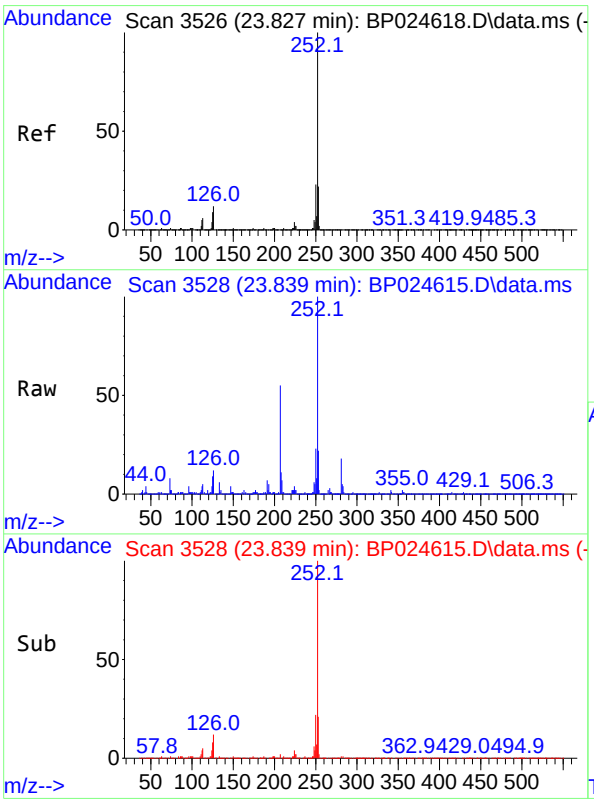
Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.7	26.5
125	9.0	7.5	11.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

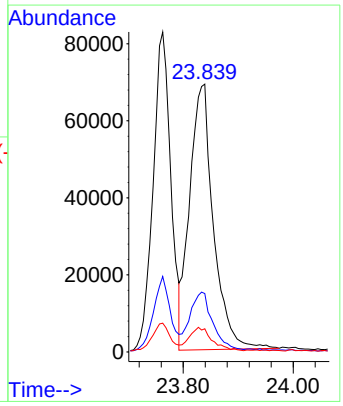
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

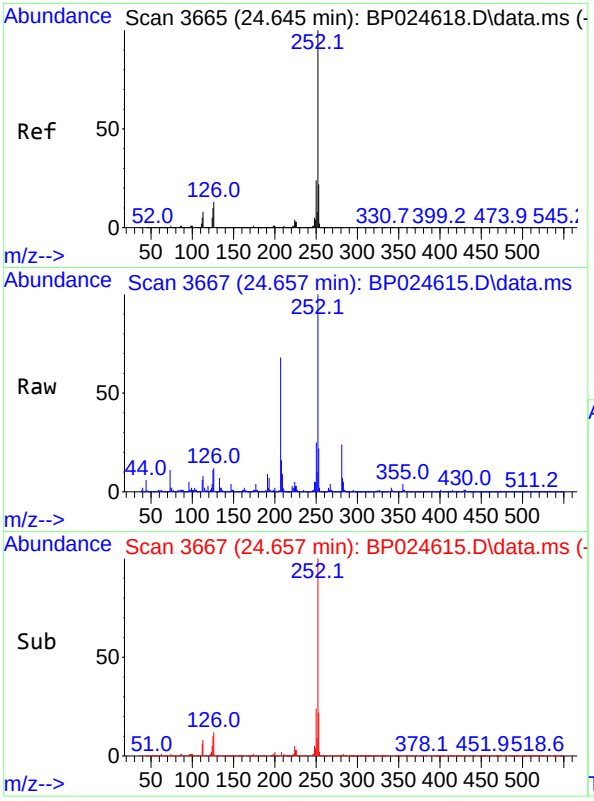


#89
Benzo(k)fluoranthene
Concen: 4.86 ng
RT: 23.839 min Scan# 3528
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:252 Resp: 207645

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	8.7	7.0	10.4

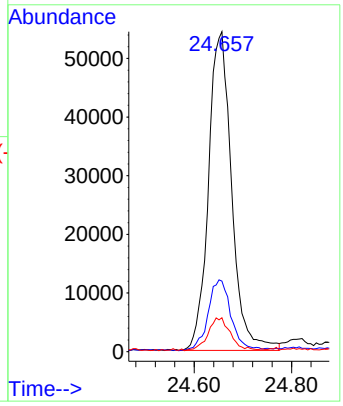




#90
Benzo(a)pyrene
Concen: 4.52 ng
RT: 24.657 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:252 Resp: 18015

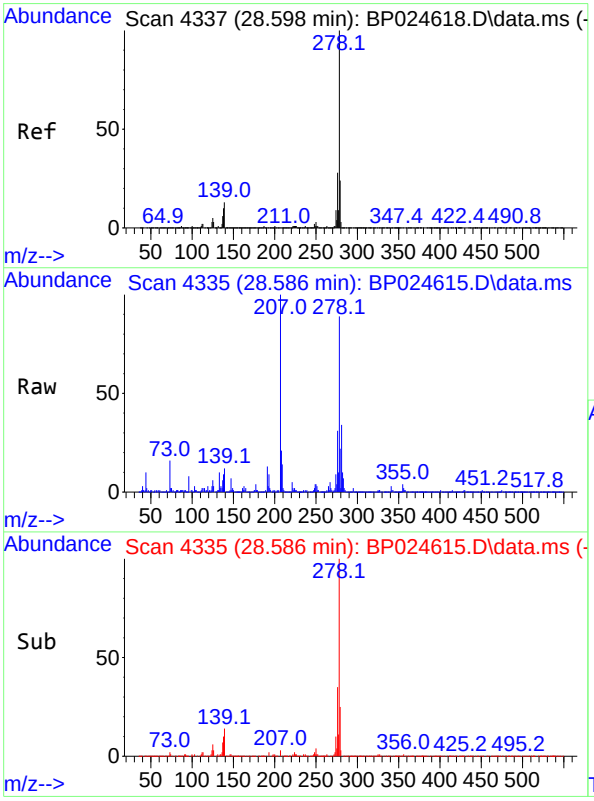
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	10.6	8.1	12.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

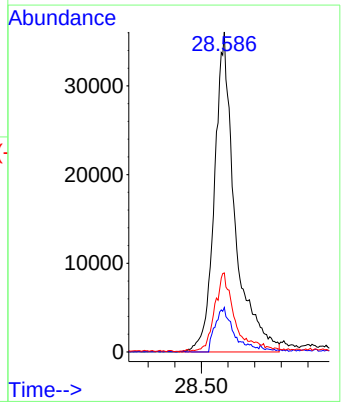
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

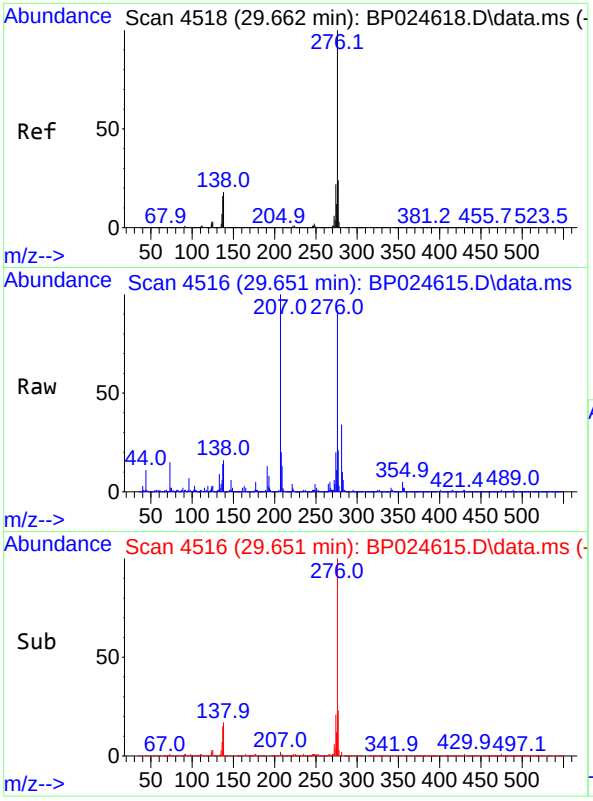


#91
Dibenzo(a,h)anthracene
Concen: 4.50 ng
RT: 28.586 min Scan# 4335
Delta R.T. -0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:278 Resp: 193373

Ion	Ratio	Lower	Upper
278	100		
139	13.9	10.2	15.4
279	24.7	19.0	28.4

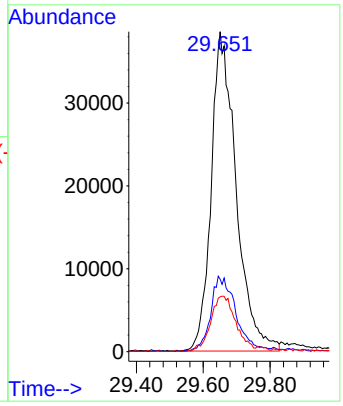




#92
Benzo(g,h,i)perylene
Concen: 4.66 ng
RT: 29.651 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:276 Resp: 19936

Ion	Ratio	Lower	Upper
276	100		
277	22.7	19.0	28.4
138	17.2	14.4	21.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024616.D
Acq On : 13 May 2025 12:03
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: May 13 16:04:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.663	152	94972	20.00	ng		0.00
21) Naphthalene-d8	10.434	136	398657	20.00	ng		0.00
39) Acenaphthene-d10	14.292	164	268335	20.00	ng		-0.01
64) Phenanthrene-d10	17.098	188	556673	20.00	ng		0.00
76) Chrysene-d12	21.516	240	659092	20.00	ng		0.00
86) Perylene-d12	24.798	264	780142	20.00	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.293	112	104115	18.75	ng		0.00
7) Phenol-d6	6.858	99	127652	18.01	ng		0.00
23) Nitrobenzene-d5	8.810	82	149876	19.00	ng		0.00
42) 2,4,6-Tribromophenol	15.810	330	86099	18.93	ng		0.00
45) 2-Fluorobiphenyl	12.904	172	401986	19.63	ng		0.00
79) Terphenyl-d14	19.822	244	733687	19.09	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.228	88	26472	10.15	ng		99
3) Pyridine	3.634	79	53915	9.33	ng		98
4) n-Nitrosodimethylamine	3.540	42	24093	9.44	ng	#	96
6) Aniline	7.005	93	80863	8.84	ng		99
8) 2-Chlorophenol	7.240	128	57182	9.07	ng		99
9) Benzaldehyde	6.822	77	47848m	10.45	ng		
10) Phenol	6.881	94	66520	9.09	ng		96
11) bis(2-Chloroethyl)ether	7.093	93	55575	9.25	ng		99
12) 1,3-Dichlorobenzene	7.557	146	70590	9.73	ng		100
13) 1,4-Dichlorobenzene	7.699	146	71467	9.80	ng		99
14) 1,2-Dichlorobenzene	8.010	146	69643	9.80	ng		96
15) Benzyl Alcohol	7.916	79	45094	8.37	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.187	45	68599	9.53	ng		98
17) 2-Methylphenol	8.116	107	45071	8.59	ng		96
18) Hexachloroethane	8.728	117	28078	10.05	ng		96
19) n-Nitroso-di-n-propyla...	8.463	70	45927	9.37	ng		96
20) 3+4-Methylphenols	8.446	107	61832	8.66	ng		95
22) Acetophenone	8.481	105	95803	9.62	ng	#	99
24) Nitrobenzene	8.857	77	67735	9.76	ng		98
25) Isophorone	9.375	82	127474	9.31	ng		99
26) 2-Nitrophenol	9.563	139	28470	8.37	ng		94
27) 2,4-Dimethylphenol	9.628	122	55664	9.28	ng		98
28) bis(2-Chloroethoxy)met...	9.851	93	78019	9.54	ng		97
29) 2,4-Dichlorophenol	10.110	162	51386	8.84	ng		98
30) 1,2,4-Trichlorobenzene	10.304	180	64245	9.81	ng		96
31) Naphthalene	10.481	128	204468	9.90	ng		99
32) Benzoic acid	9.746	122	17770m	10.42	ng		
33) 4-Chloroaniline	10.610	127	73990	8.88	ng		99
34) Hexachlorobutadiene	10.769	225	42567	10.03	ng		97
35) Caprolactam	11.381	113	18245m	8.68	ng		
36) 4-Chloro-3-methylphenol	11.746	107	64857	9.15	ng		98
37) 2-Methylnaphthalene	12.098	142	130412	9.75	ng		100
38) 1-Methylnaphthalene	12.316	142	139573	9.75	ng		100
40) 1,2,4,5-Tetrachloroben...	12.475	216	74824	9.60	ng		100
41) Hexachlorocyclopentadiene	12.451	237	37072	7.85	ng		98
43) 2,4,6-Trichlorophenol	12.722	196	45798	9.07	ng		96

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024616.D
Acq On : 13 May 2025 12:03
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:04:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.810	196	50348	8.96	ng		94
46) 1,1'-Biphenyl	13.122	154	192445	9.70	ng		100
47) 2-Chloronaphthalene	13.163	162	148443	9.82	ng		99
48) 2-Nitroaniline	13.375	65	40786	9.11	ng		93
49) Acenaphthylene	14.010	152	243913	9.64	ng		98
50) Dimethylphthalate	13.751	163	204825	10.01	ng		99
51) 2,6-Dinitrotoluene	13.869	165	41257	9.55	ng		92
52) Acenaphthene	14.357	154	141360	9.72	ng		99
53) 3-Nitroaniline	14.216	138	36906	8.37	ng		99
54) 2,4-Dinitrophenol	14.439	184	13128	10.84	ng		95
55) Dibenzofuran	14.704	168	230286	9.92	ng		99
56) 4-Nitrophenol	14.575	139	21349	9.53	ng		93
57) 2,4-Dinitrotoluene	14.675	165	56617	9.30	ng		94
58) Fluorene	15.357	166	189781	10.03	ng		100
59) 2,3,4,6-Tetrachlorophenol	14.939	232	48821	9.37	ng		99
60) Diethylphthalate	15.134	149	206886	10.01	ng		99
61) 4-Chlorophenyl-phenyle...	15.357	204	93517	9.91	ng		97
62) 4-Nitroaniline	15.404	138	34813m	8.11	ng		
63) Azobenzene	15.657	77	174322	9.86	ng		98
65) 4,6-Dinitro-2-methylph...	15.457	198	26174	7.28	ng		96
66) n-Nitrosodiphenylamine	15.575	169	164008	9.59	ng		99
67) 4-Bromophenyl-phenylether	16.269	248	62011	9.45	ng		97
68) Hexachlorobenzene	16.392	284	80088	9.61	ng		98
69) Atrazine	16.551	200	58245	9.30	ng		99
70) Pentachlorophenol	16.757	266	38095m	8.14	ng		
71) Phenanthrene	17.139	178	301863	9.75	ng		100
72) Anthracene	17.239	178	296146	9.51	ng		100
73) Carbazole	17.522	167	262687	9.32	ng		100
74) Di-n-butylphthalate	18.116	149	338893	9.35	ng		100
75) Fluoranthene	19.227	202	349083	9.65	ng		99
77) Benzidine	19.445	184	119229m	6.59	ng		
78) Pyrene	19.604	202	374573	9.48	ng		100
80) Butylbenzylphthalate	20.551	149	153275	8.73	ng		99
81) Benzo(a)anthracene	21.498	228	401322	9.70	ng		99
82) 3,3'-Dichlorobenzidine	21.433	252	129324	8.41	ng		99
83) Chrysene	21.569	228	388846	9.91	ng		98
84) Bis(2-ethylhexyl)phtha...	21.439	149	225047	8.72	ng		100
85) Di-n-octyl phthalate	22.680	149	367934	8.72	ng		100
87) Indeno(1,2,3-cd)pyrene	28.503	276	529260	9.29	ng	#	92
88) Benzo(b)fluoranthene	23.751	252	417343	9.35	ng		99
89) Benzo(k)fluoranthene	23.821	252	431575	9.38	ng		99
90) Benzo(a)pyrene	24.627	252	390288	9.10	ng		100
91) Dibenzo(a,h)anthracene	28.574	278	415768	8.97	ng		99
92) Benzo(g,h,i)perylene	29.650	276	431559	9.37	ng		97

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

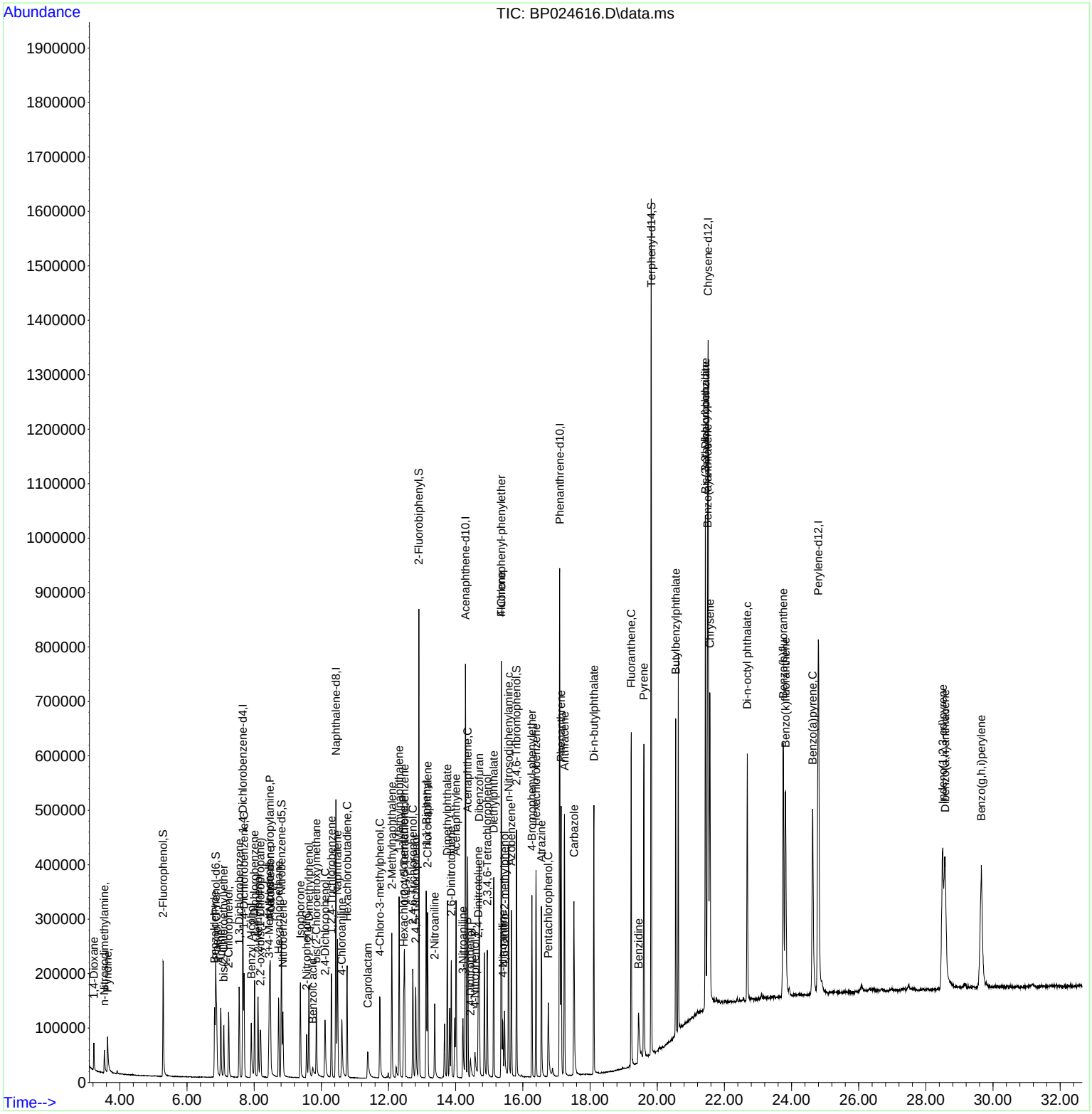
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024616.D
Acq On : 13 May 2025 12:03
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

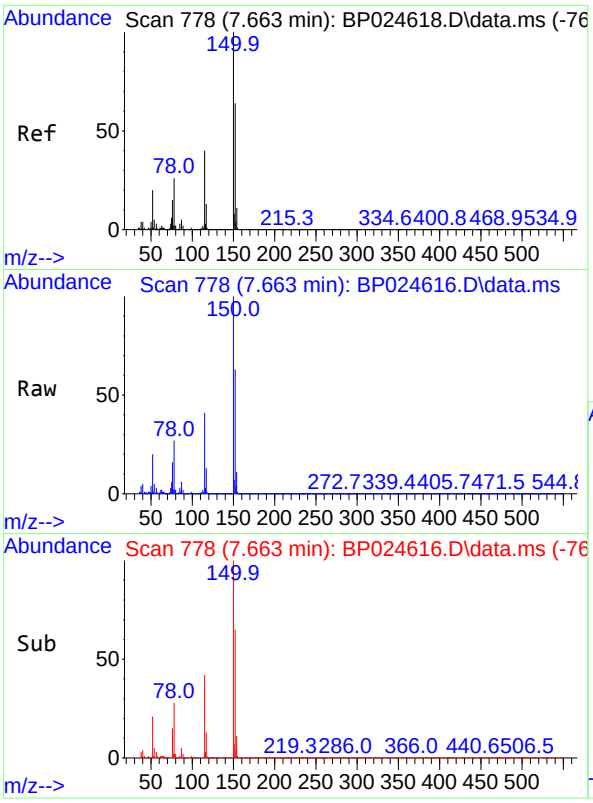
Quant Time: May 13 16:04:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

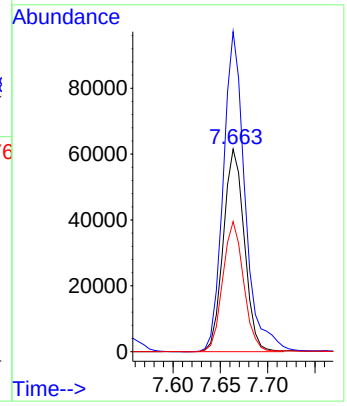




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.663 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:152 Resp: 9497

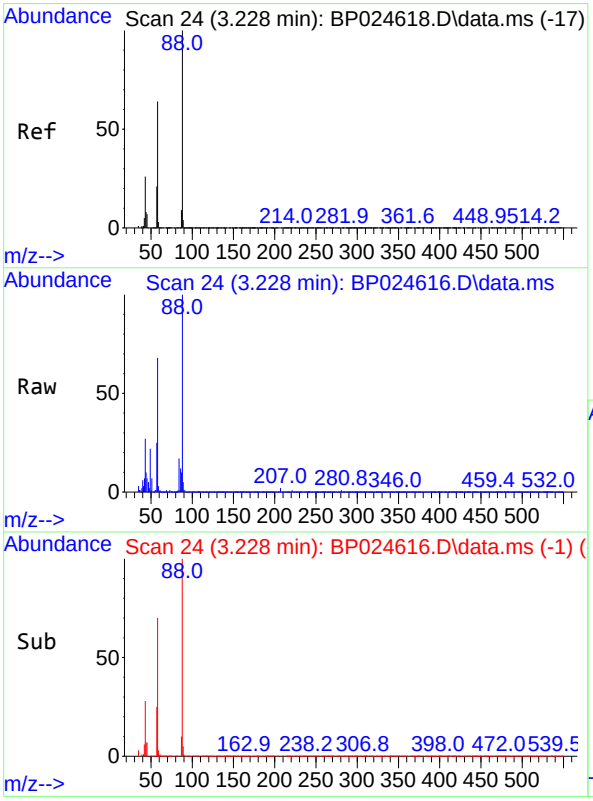
Ion	Ratio	Lower	Upper
152	100		
150	158.0	125.9	188.9
115	64.2	50.1	75.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

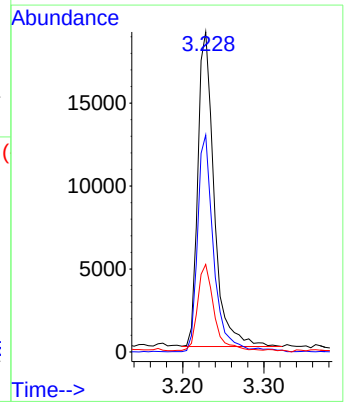
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

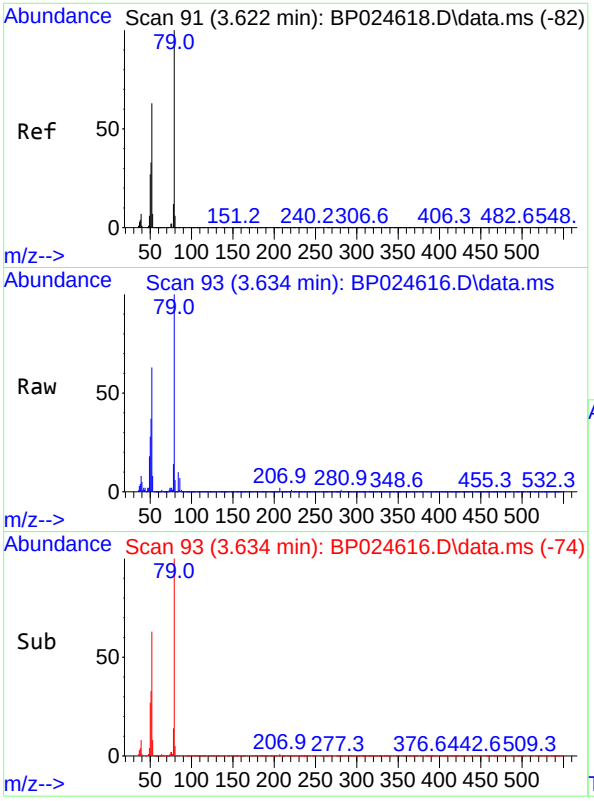


#2
1,4-Dioxane
Concen: 10.15 ng
RT: 3.228 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 88 Resp: 26472

Ion	Ratio	Lower	Upper
88	100		
58	67.6	54.0	81.0
43	27.8	21.4	32.0

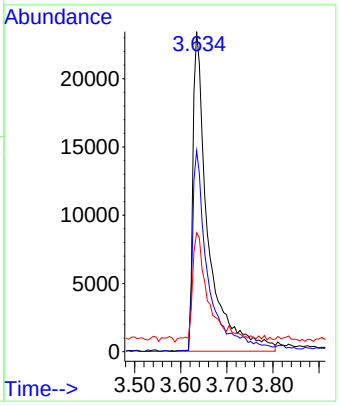




#3
Pyridine
Concen: 9.33 ng
RT: 3.634 min Scan# 9
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 79 Resp: 5391

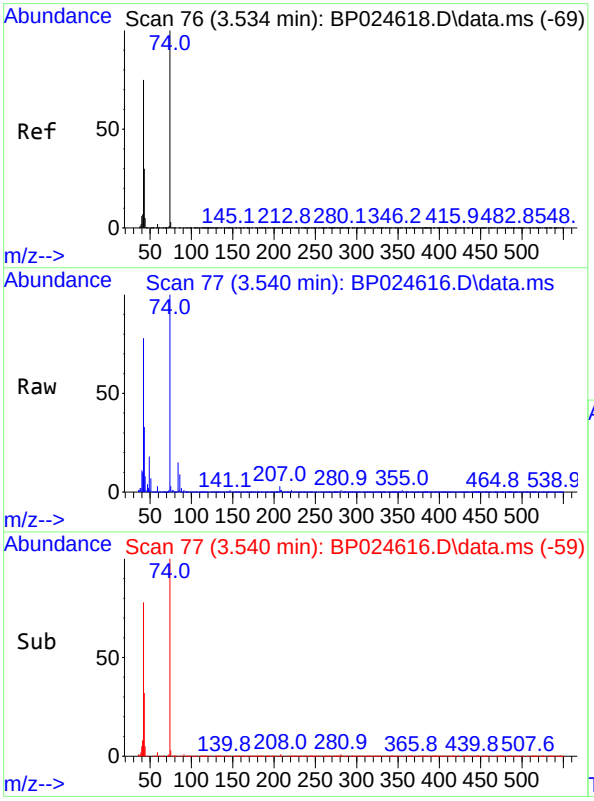
Ion	Ratio	Lower	Upper
79	100		
52	62.8	50.2	75.2
51	37.1	26.8	40.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

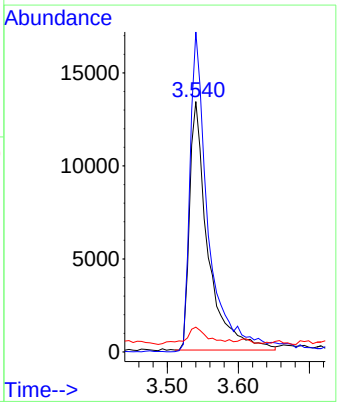
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

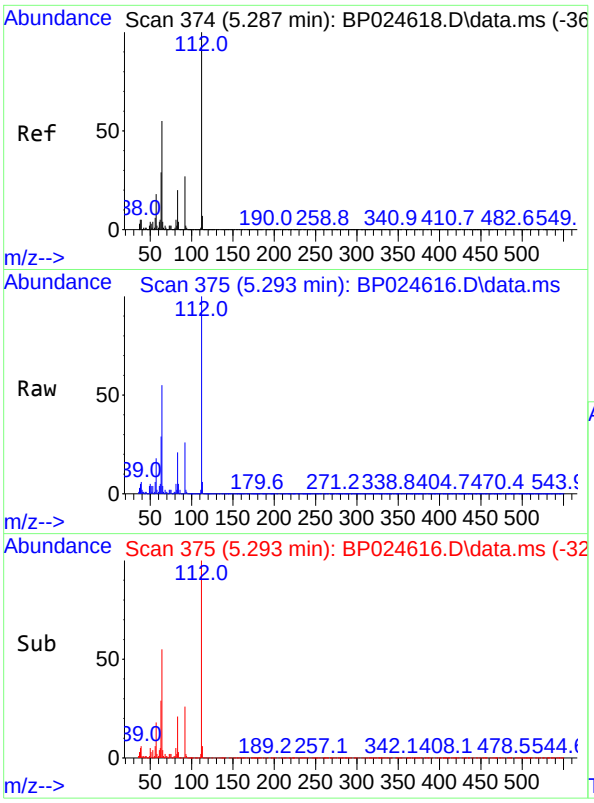


#4
n-Nitrosodimethylamine
Concen: 9.44 ng
RT: 3.540 min Scan# 77
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 42 Resp: 24093

Ion	Ratio	Lower	Upper
42	100		
74	127.8	106.2	159.2
44	9.9	5.4	8.2#

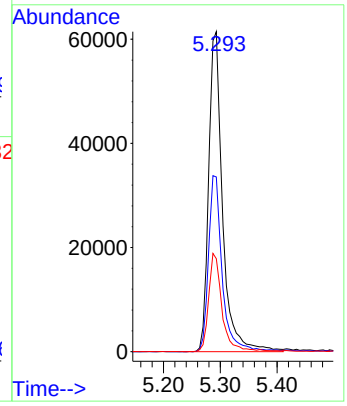




#5
2-Fluorophenol
Concen: 18.75 ng
RT: 5.293 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:112 Resp: 10411

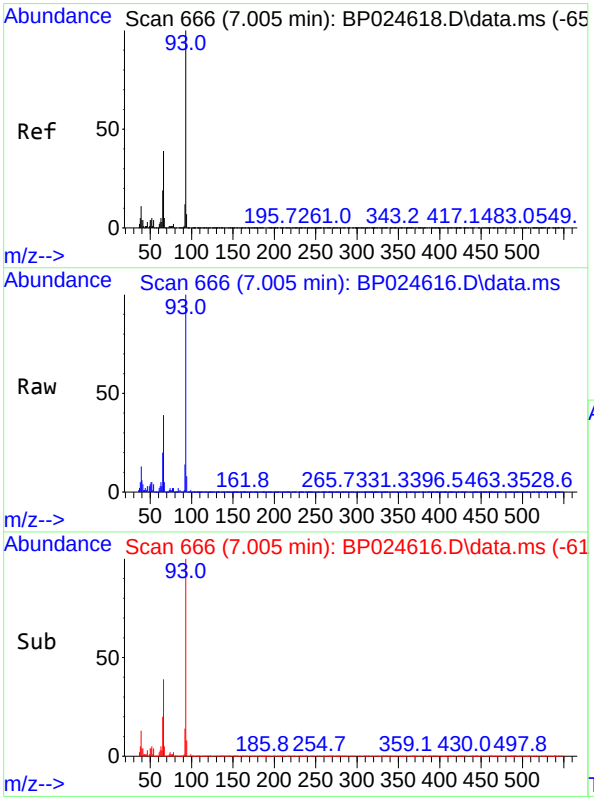
Ion	Ratio	Lower	Upper
112	100		
64	54.6	44.1	66.1
63	29.0	23.5	35.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

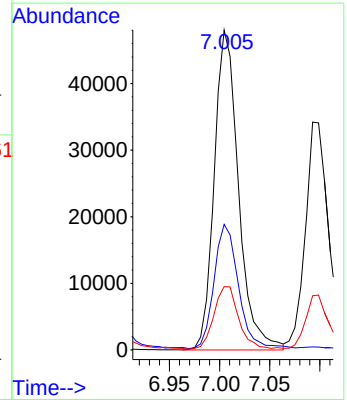
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

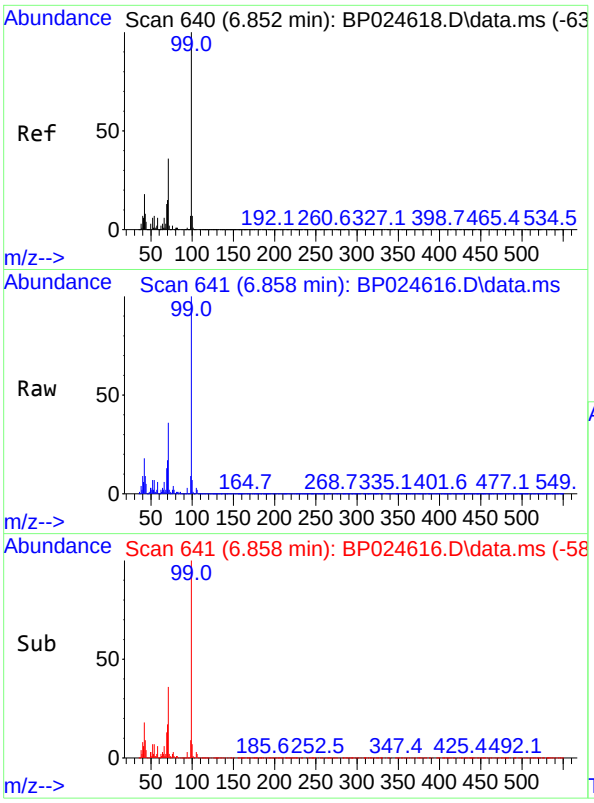


#6
Aniline
Concen: 8.84 ng
RT: 7.005 min Scan# 666
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 93 Resp: 80863

Ion	Ratio	Lower	Upper
93	100		
66	39.2	31.0	46.6
65	19.8	15.5	23.3

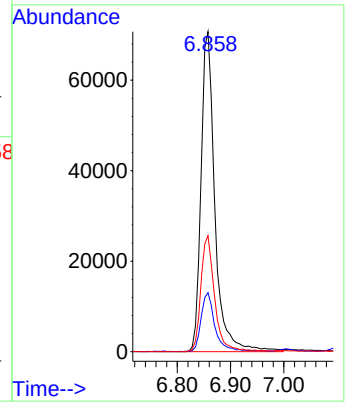




#7
Phenol-d6
Concen: 18.01 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 99 Resp: 12765

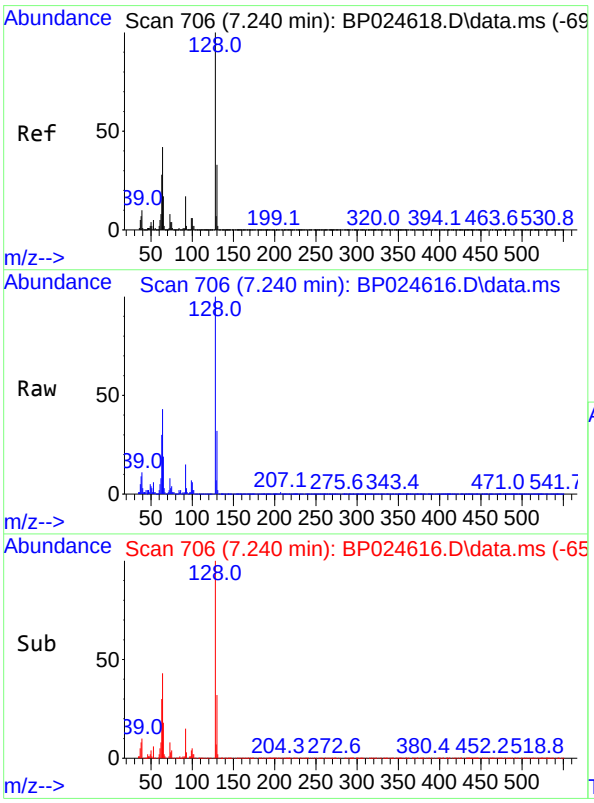
Ion	Ratio	Lower	Upper
99	100		
42	18.4	14.4	21.6
71	36.3	29.2	43.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

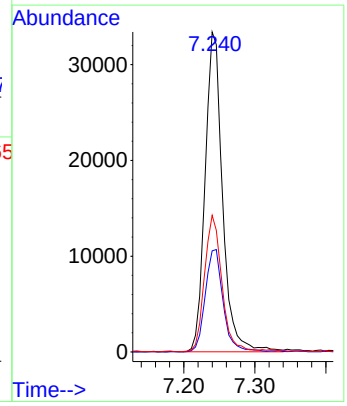
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

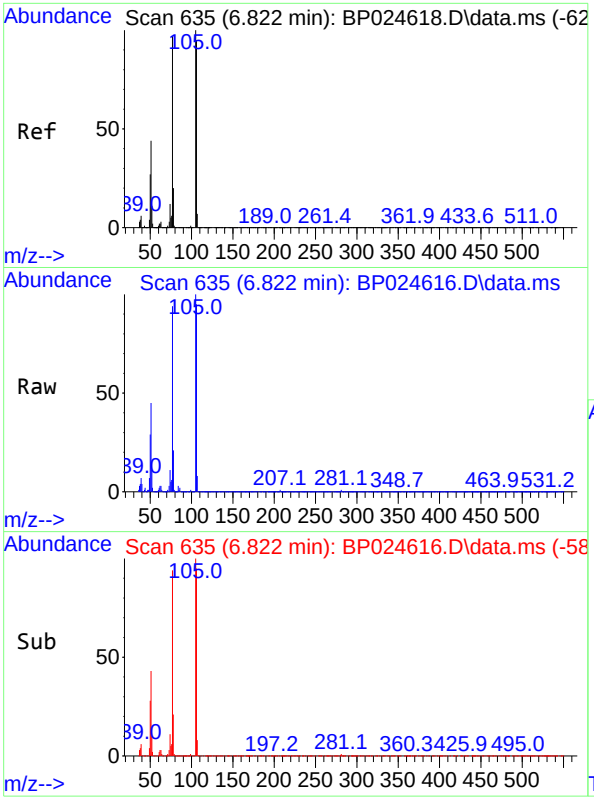


#8
2-Chlorophenol
Concen: 9.07 ng
RT: 7.240 min Scan# 706
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:128 Resp: 57182

Ion	Ratio	Lower	Upper
128	100		
130	31.6	13.0	53.0
64	42.7	22.3	62.3

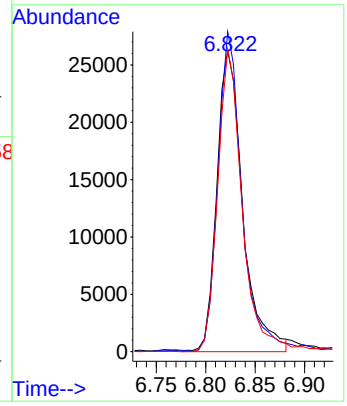




#9
Benzaldehyde
Concen: 10.45 ng m
RT: 6.822 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 77 Resp: 4784

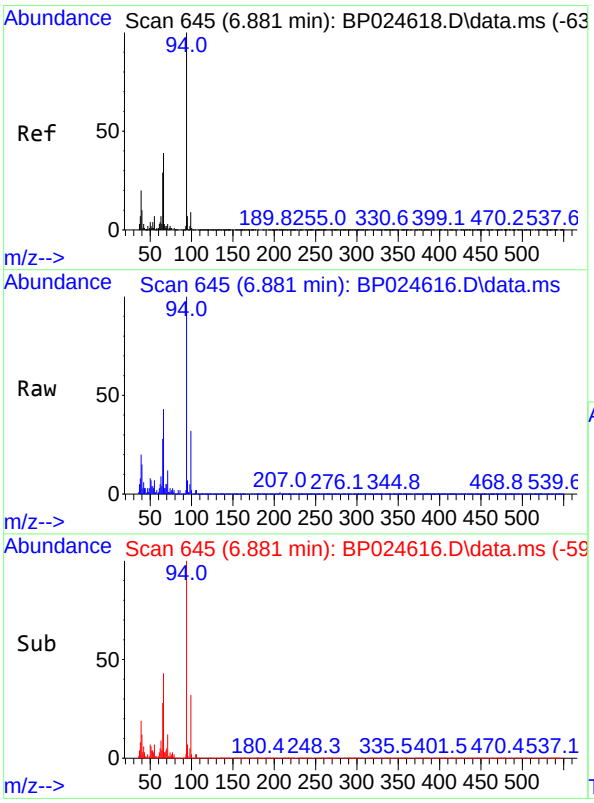
Ion	Ratio	Lower	Upper
77	100		
105	106.2	83.3	123.3
106	100.5	78.0	118.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

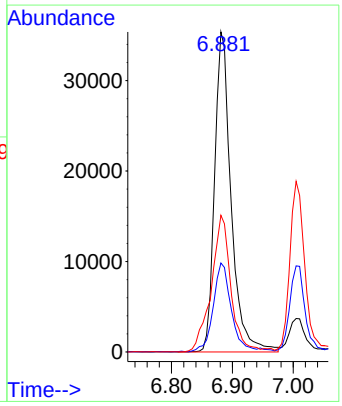
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

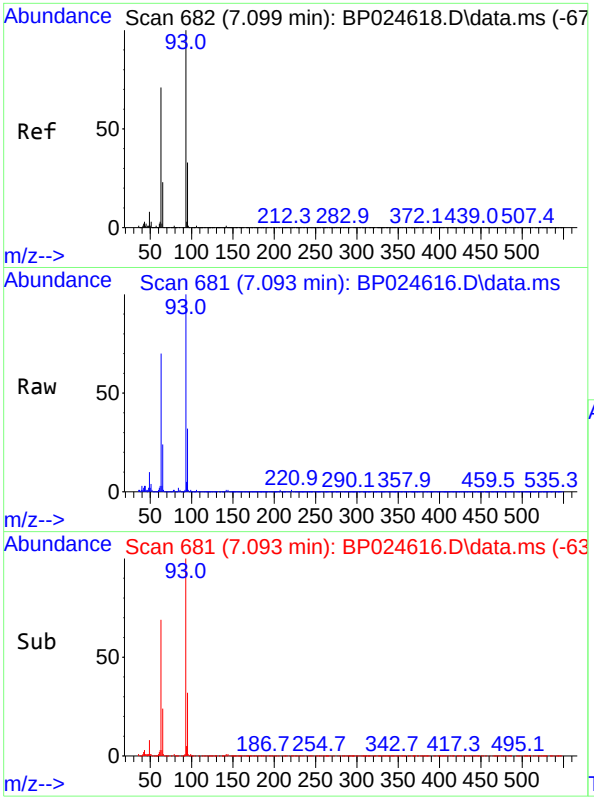


#10
Phenol
Concen: 9.09 ng
RT: 6.881 min Scan# 645
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 94 Resp: 66520

Ion	Ratio	Lower	Upper
94	100		
65	27.8	8.7	48.7
66	42.7	19.4	59.4

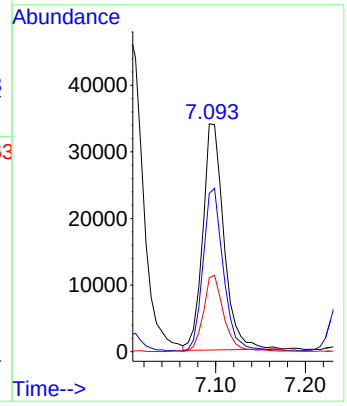




#11
bis(2-Chloroethyl)ether
Concen: 9.25 ng
RT: 7.093 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 93 Resp: 5557

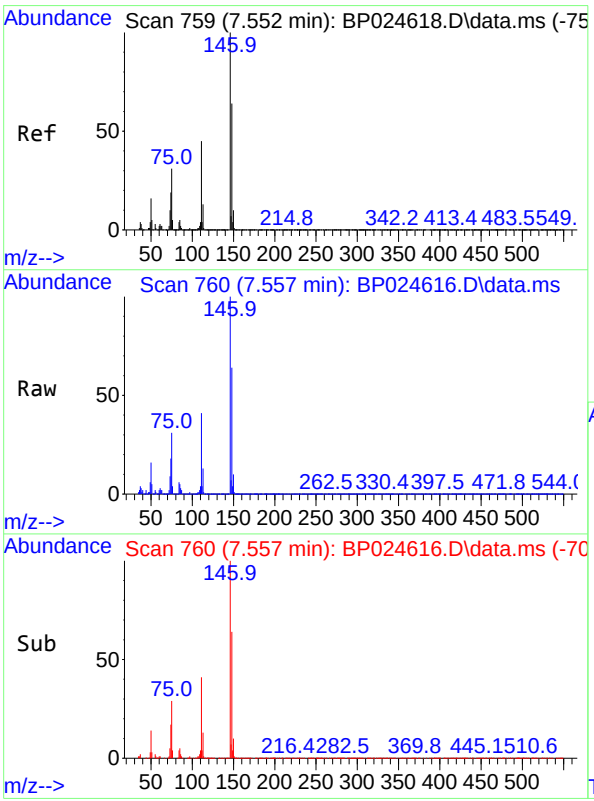
Ion	Ratio	Lower	Upper
93	100		
63	69.5	50.6	90.6
95	32.4	12.9	52.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

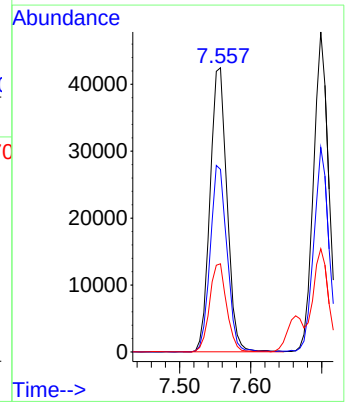
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

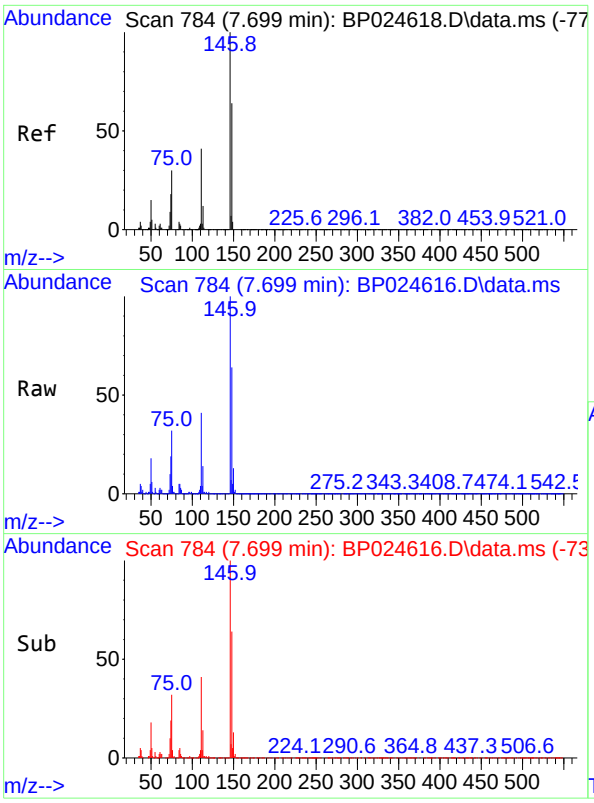


#12
1,3-Dichlorobenzene
Concen: 9.73 ng
RT: 7.557 min Scan# 760
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:146 Resp: 70590

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.4	77.2
75	31.1	25.2	37.8

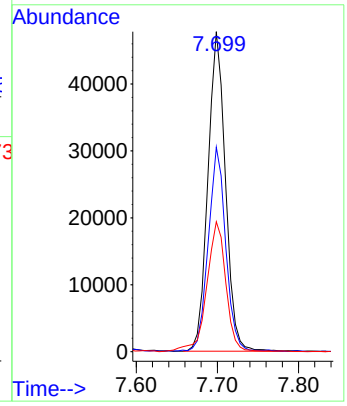




#13
1,4-Dichlorobenzene
Concen: 9.80 ng
RT: 7.699 min Scan# 7
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:146 Resp: 7146

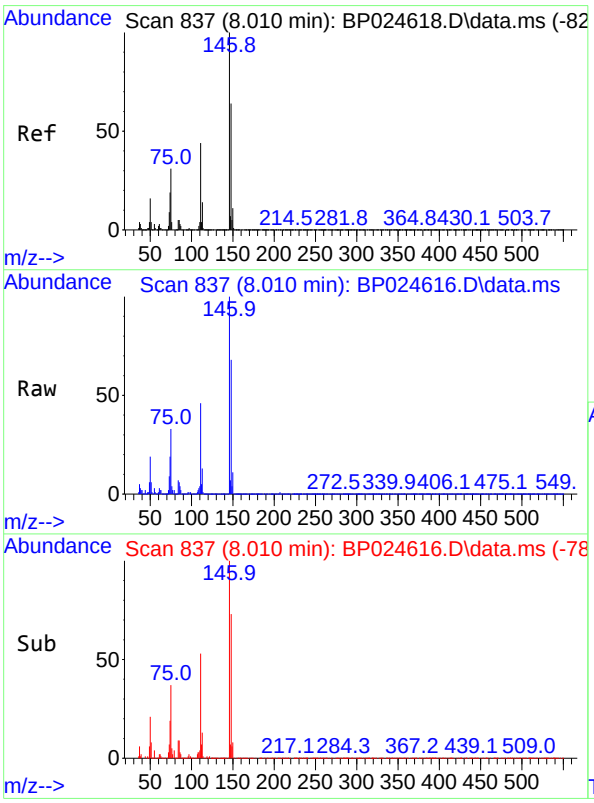
Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.0	76.6
111	40.6	33.0	49.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

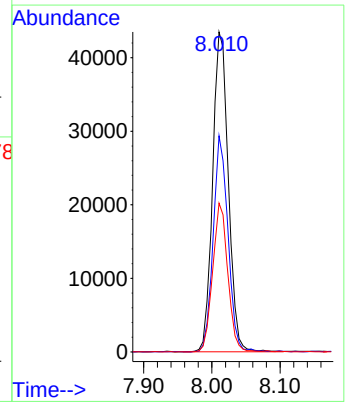
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

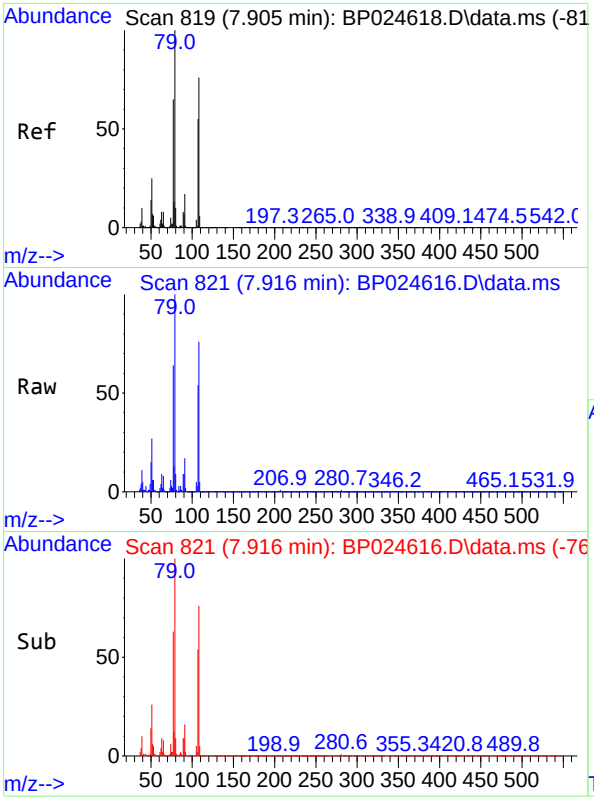


#14
1,2-Dichlorobenzene
Concen: 9.80 ng
RT: 8.010 min Scan# 837
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:146 Resp: 69643

Ion	Ratio	Lower	Upper
146	100		
148	67.5	51.0	76.4
111	46.5	35.2	52.8





#15
Benzyl Alcohol
Concen: 8.37 ng
RT: 7.916 min Scan# 8
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

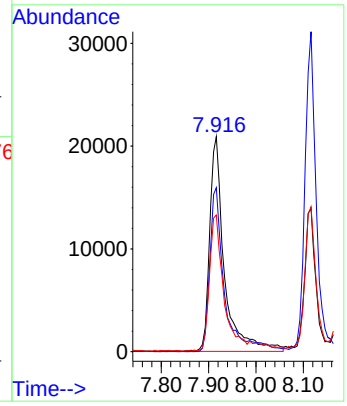
Tgt Ion: 79 Resp: 4509

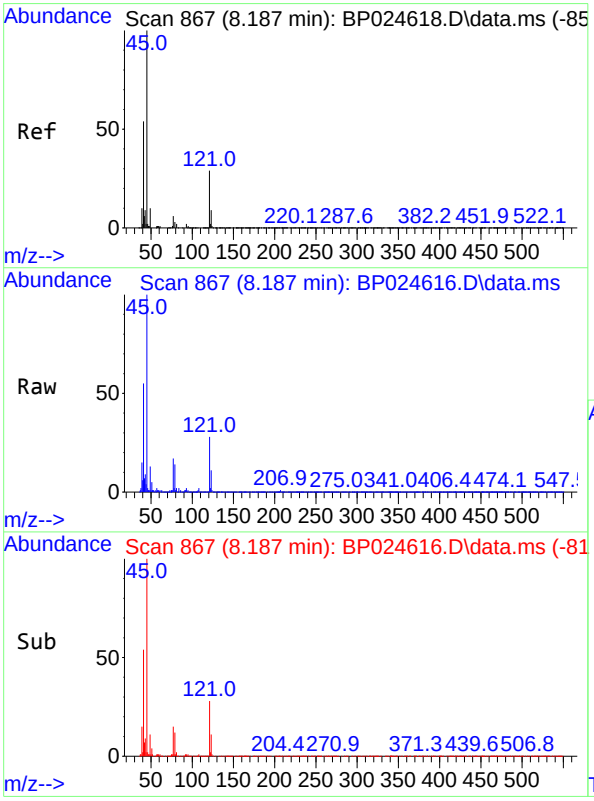
Ion	Ratio	Lower	Upper
79	100		
108	76.3	60.8	91.2
77	63.5	51.9	77.9

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

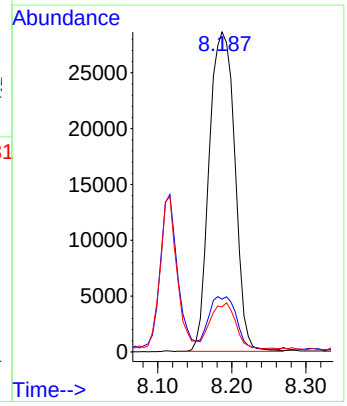


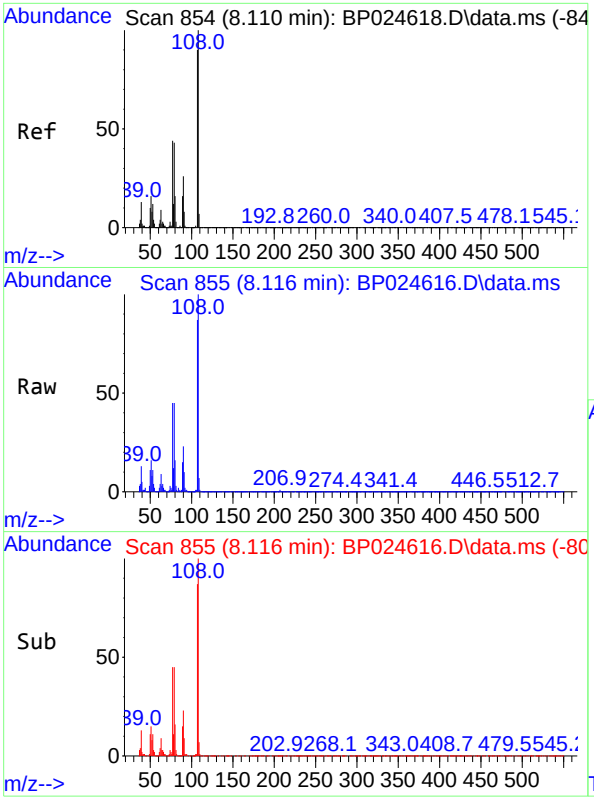


#16
2,2'-oxybis(1-Chloropropane)
Concen: 9.53 ng
RT: 8.187 min Scan# 867
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 45 Resp: 68599

Ion	Ratio	Lower	Upper
45	100		
77	16.5	0.0	37.7
79	14.1	0.0	34.0

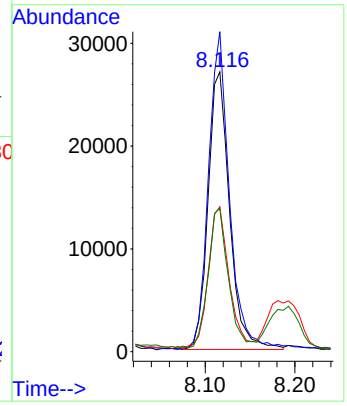




#17
2-Methylphenol
Concen: 8.59 ng
RT: 8.116 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:107 Resp: 4507

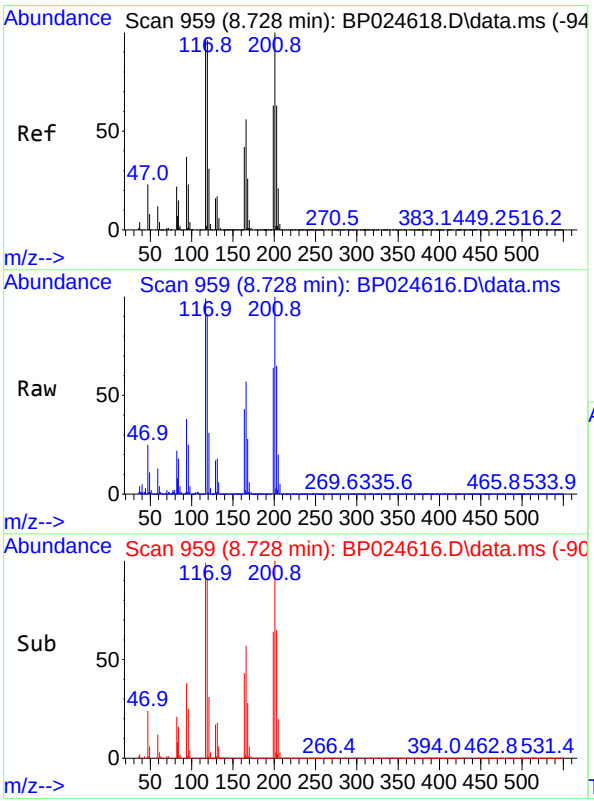
Ion	Ratio	Lower	Upper
107	100		
108	114.4	88.9	133.3
77	51.8	39.0	58.6
79	51.1	38.4	57.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

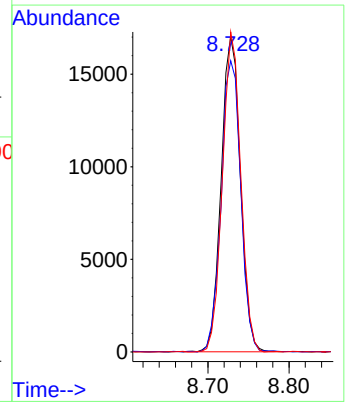
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

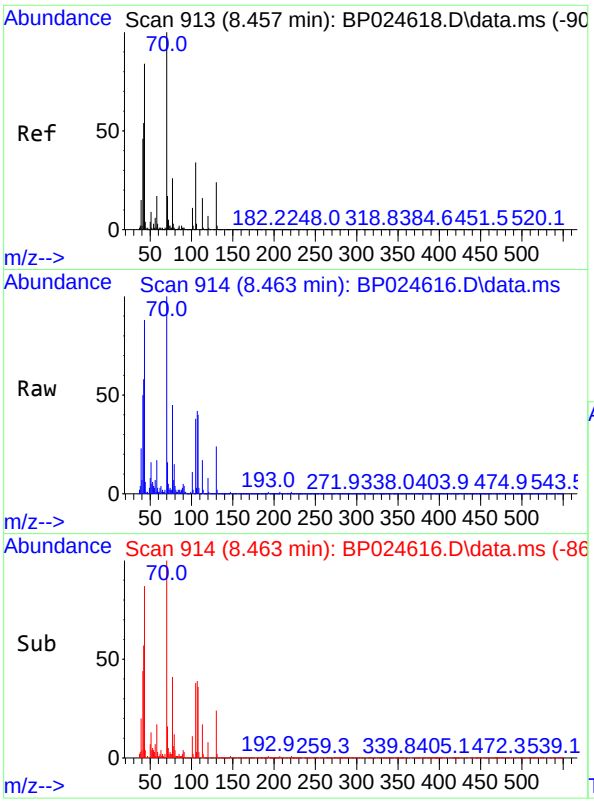


#18
Hexachloroethane
Concen: 10.05 ng
RT: 8.728 min Scan# 959
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:117 Resp: 28078

Ion	Ratio	Lower	Upper
117	100		
119	92.3	79.4	119.0
201	101.4	82.7	124.1

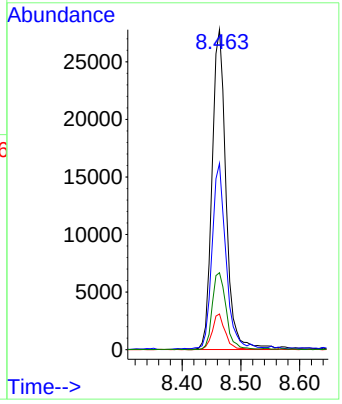




#19
n-Nitroso-di-n-propylamine
Concen: 9.37 ng
RT: 8.463 min Scan# 91
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 70 Resp: 4592

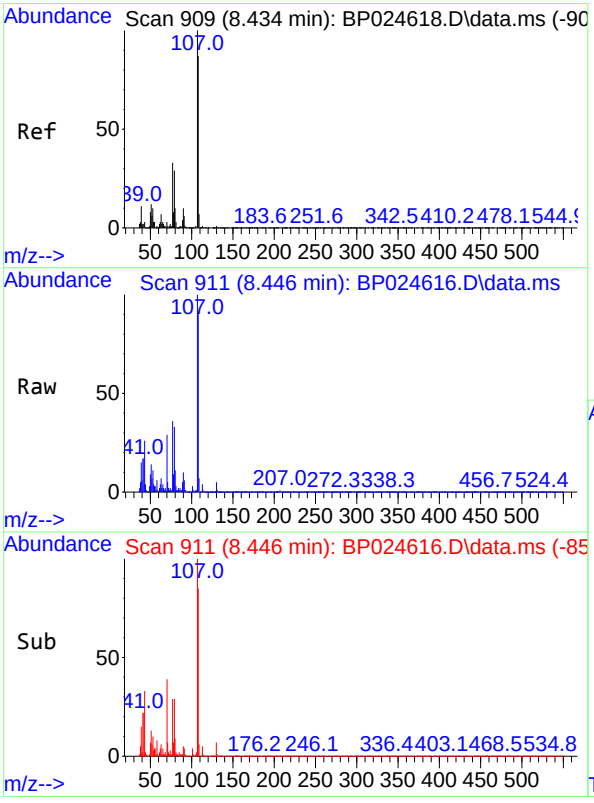
Ion	Ratio	Lower	Upper
70	100		
42	58.2	43.0	64.6
101	11.2	8.7	13.1
130	24.1	19.4	29.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

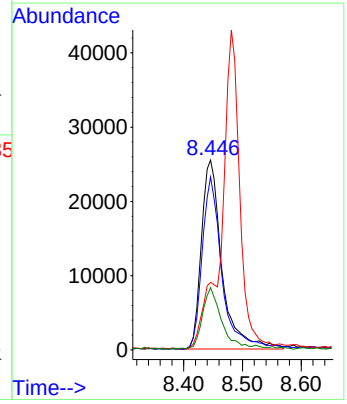
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

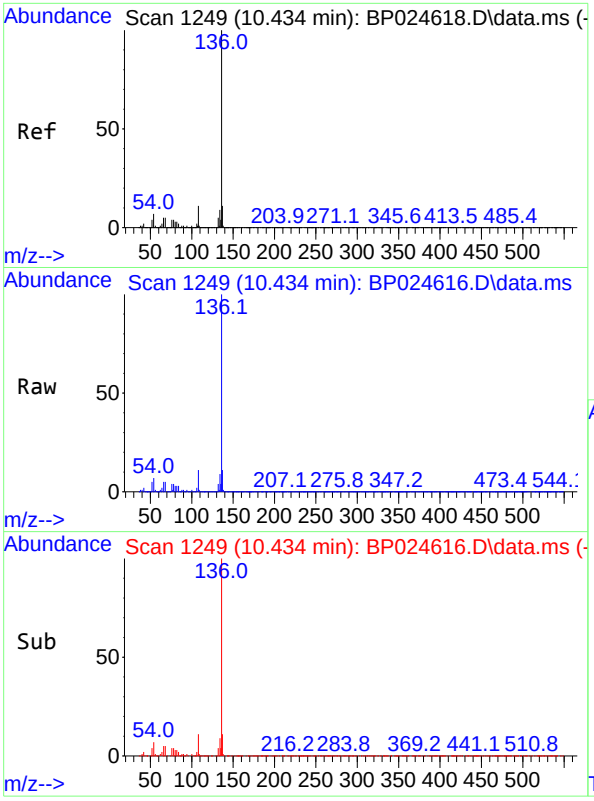


#20
3+4-Methylphenols
Concen: 8.66 ng
RT: 8.446 min Scan# 911
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:107 Resp: 61832

Ion	Ratio	Lower	Upper
107	100		
108	91.0	66.7	106.7
77	35.6	13.1	53.1
79	32.7	8.9	48.9

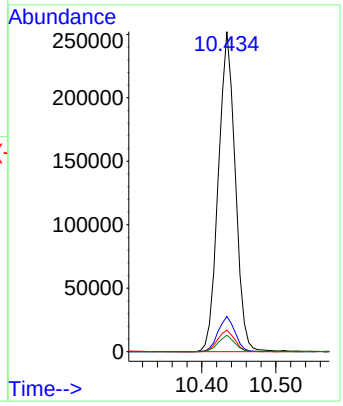




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:136 Resp: 39865

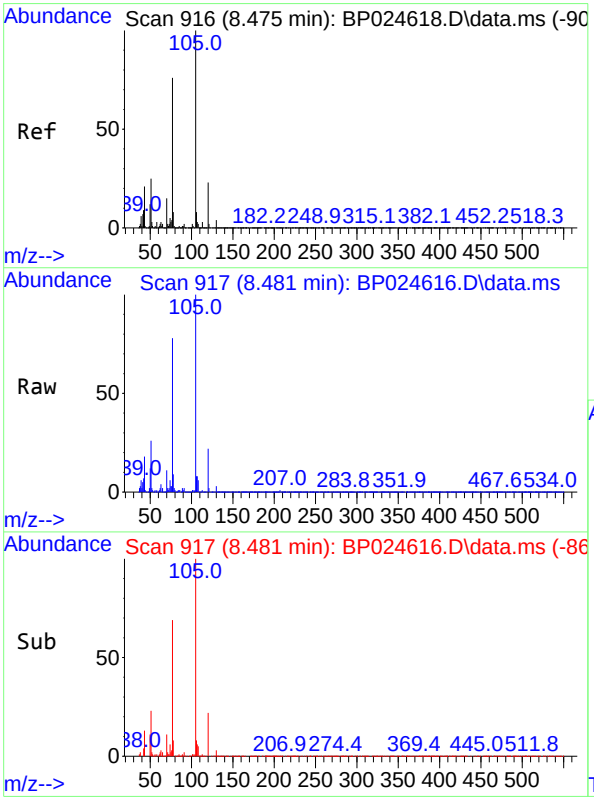
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	6.7	5.5	8.3
68	5.2	4.2	6.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

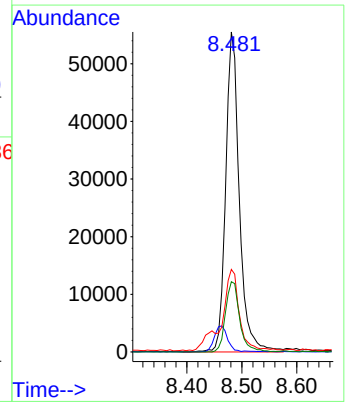
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

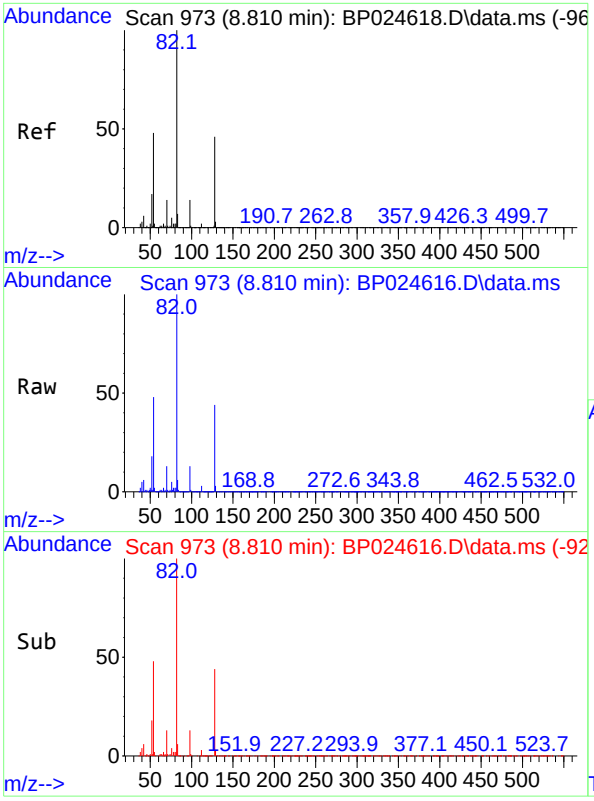


#22
Acetophenone
Concen: 9.62 ng
RT: 8.481 min Scan# 917
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:105 Resp: 95803

Ion	Ratio	Lower	Upper
105	100		
71	1.9	2.0	3.0#
51	25.8	20.4	30.6
120	22.0	18.1	27.1

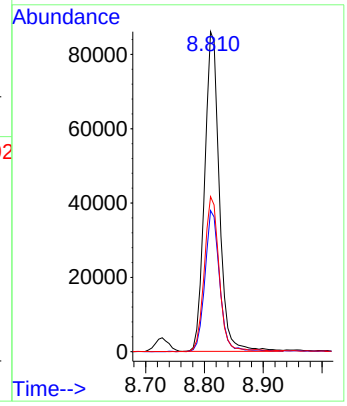




#23
Nitrobenzene-d5
Concen: 19.00 ng
RT: 8.810 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 82 Resp: 14987

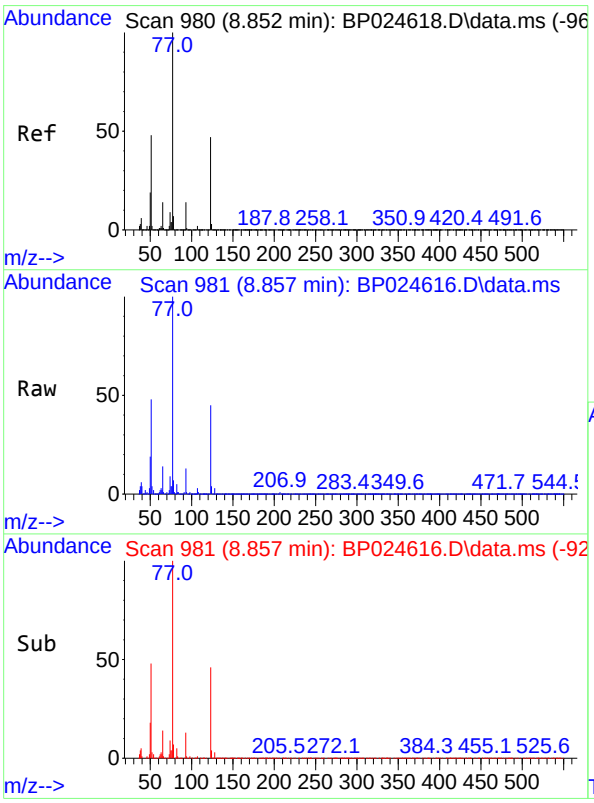
Ion	Ratio	Lower	Upper
82	100		
128	44.1	37.0	55.4
54	48.5	38.7	58.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

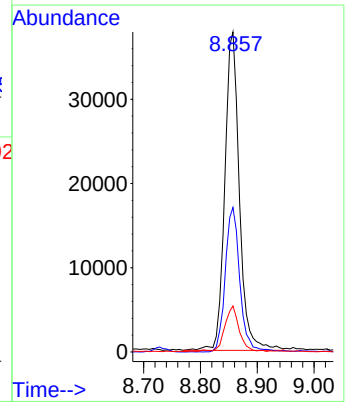
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

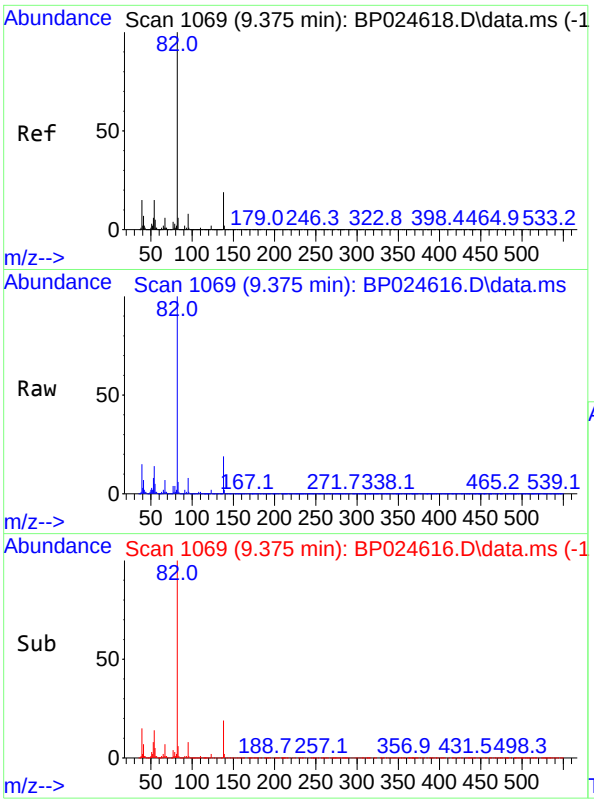


#24
Nitrobenzene
Concen: 9.76 ng
RT: 8.857 min Scan# 981
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 77 Resp: 67735

Ion	Ratio	Lower	Upper
77	100		
123	45.2	37.4	56.0
65	14.4	11.3	16.9

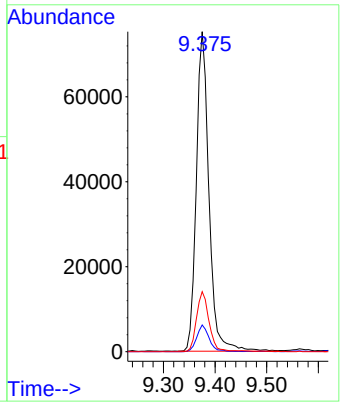




#25
Isophorone
Concen: 9.31 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 82 Resp: 12747

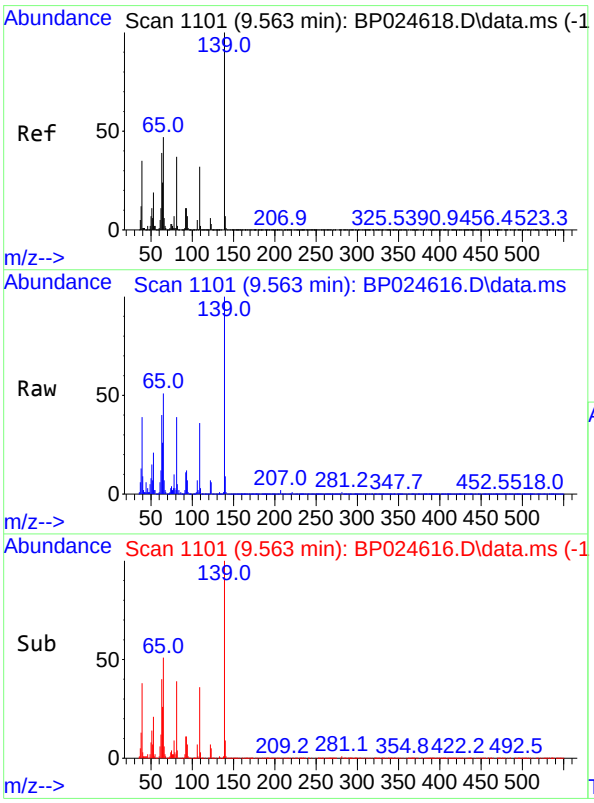
Ion	Ratio	Lower	Upper
82	100		
95	8.4	6.3	9.5
138	18.7	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

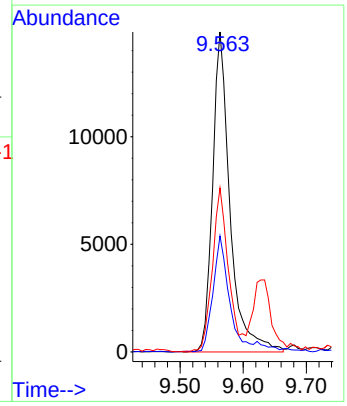
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

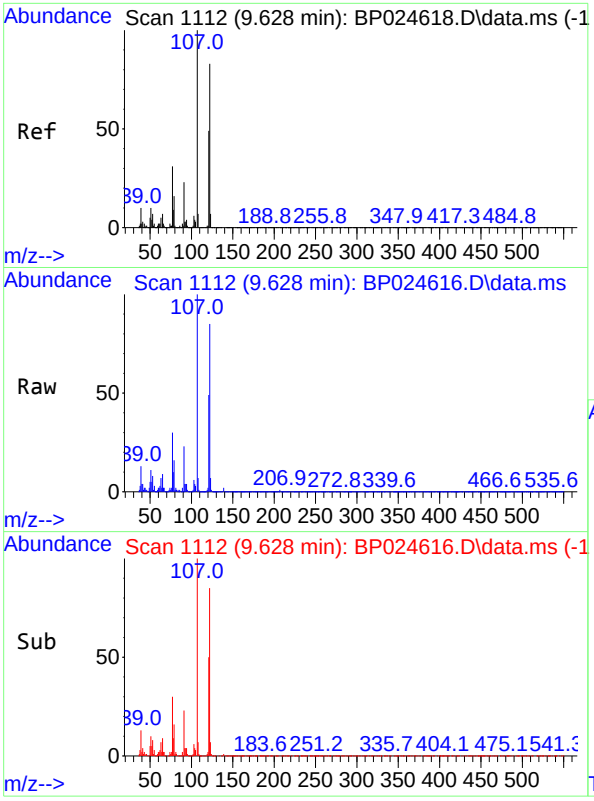


#26
2-Nitrophenol
Concen: 8.37 ng
RT: 9.563 min Scan# 1101
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:139 Resp: 28470

Ion	Ratio	Lower	Upper
139	100		
109	36.2	25.9	38.9
65	51.3	37.9	56.9





#27
2,4-Dimethylphenol
Concen: 9.28 ng
RT: 9.628 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

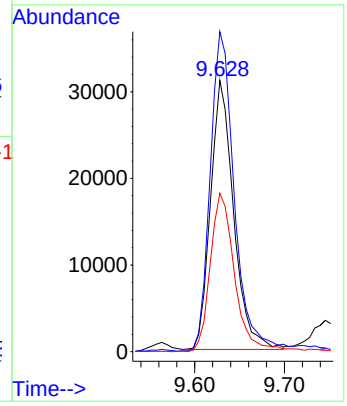
Tgt Ion:122 Resp: 5566

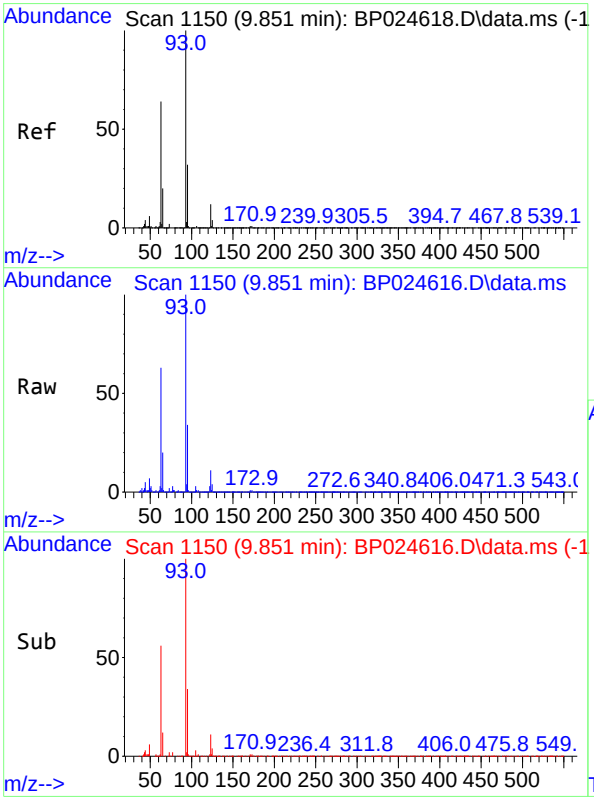
Ion	Ratio	Lower	Upper
122	100		
107	118.0	96.2	144.2
121	58.4	47.6	71.4

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

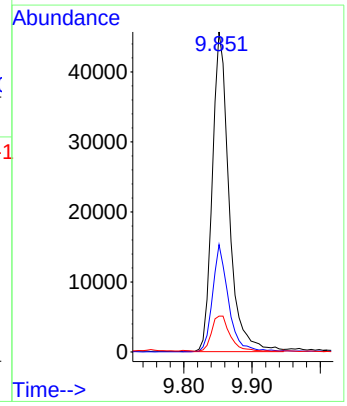


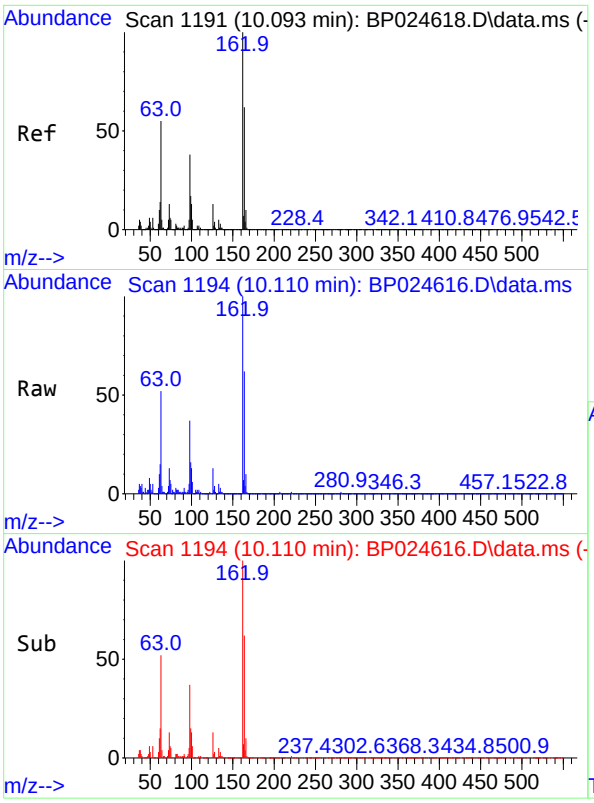


#28
bis(2-Chloroethoxy)methane
Concen: 9.54 ng
RT: 9.851 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 93 Resp: 78019

Ion	Ratio	Lower	Upper
93	100		
95	33.5	25.5	38.3
123	11.2	9.7	14.5

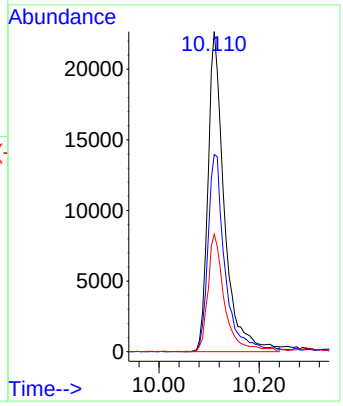




#29
2,4-Dichlorophenol
Concen: 8.84 ng
RT: 10.110 min Scan# 11
Delta R.T. 0.018 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:162 Resp: 5138

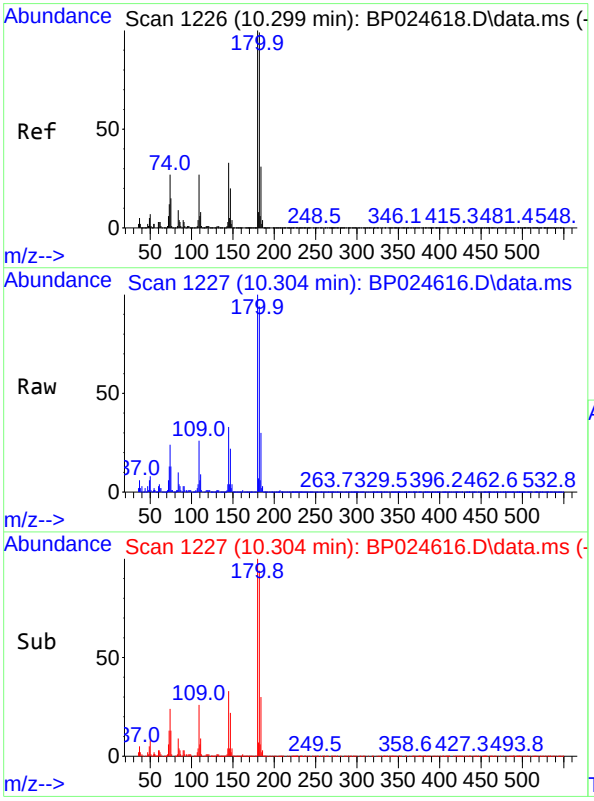
Ion	Ratio	Lower	Upper
162	100		
164	61.7	42.3	82.3
98	36.7	18.4	58.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

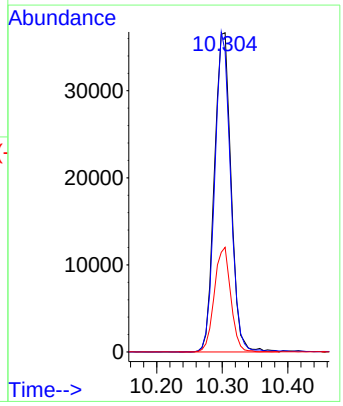
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

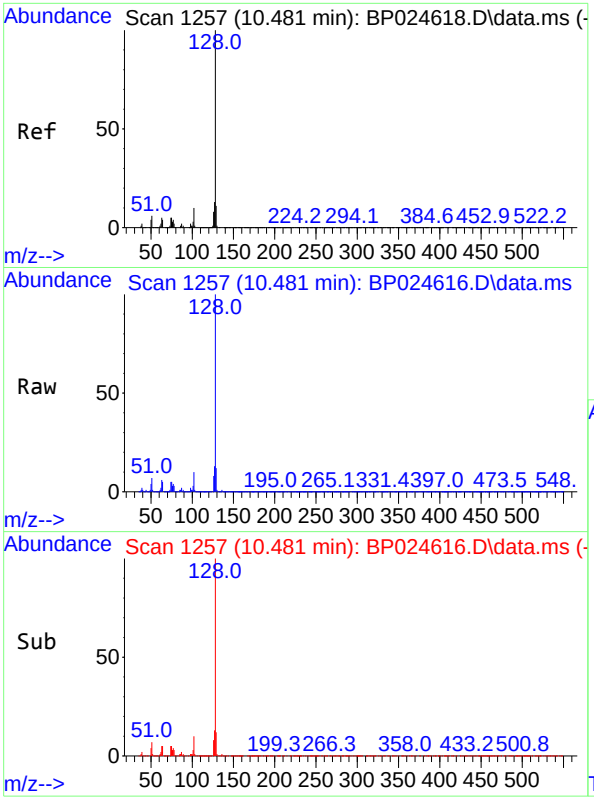


#30
1,2,4-Trichlorobenzene
Concen: 9.81 ng
RT: 10.304 min Scan# 1227
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:180 Resp: 64245

Ion	Ratio	Lower	Upper
180	100		
182	94.1	79.0	118.4
145	32.8	26.6	39.8

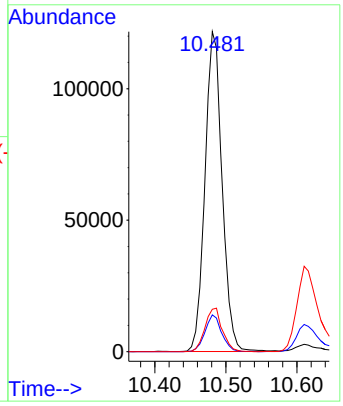




#31
Naphthalene
Concen: 9.90 ng
RT: 10.481 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:128 Resp: 20446

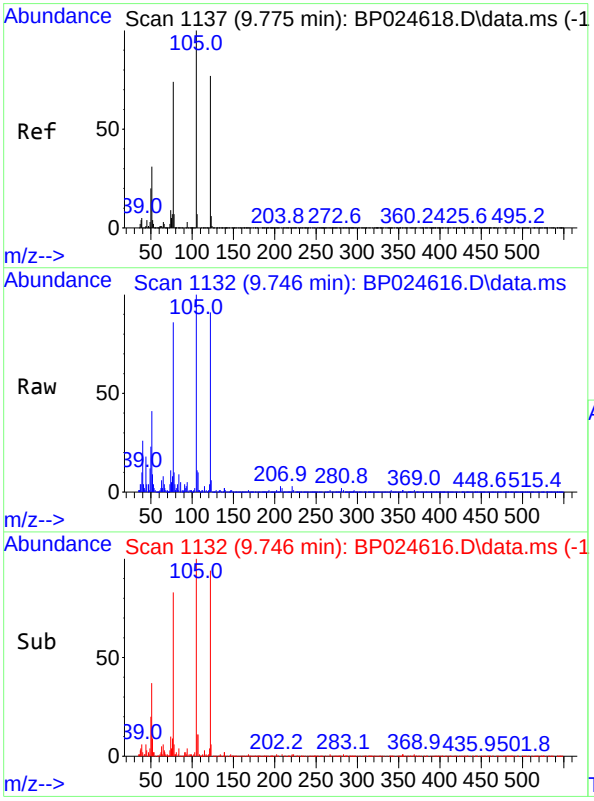
Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.8	13.2
127	13.2	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

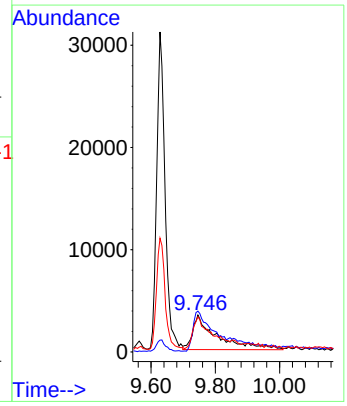
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

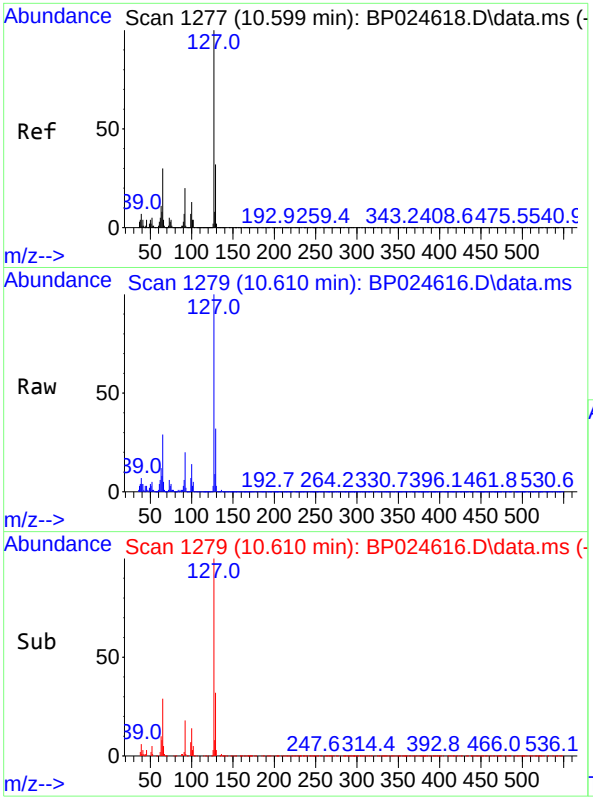


#32
Benzoic acid
Concen: 10.42 ng m
RT: 9.746 min Scan# 1132
Delta R.T. -0.029 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:122 Resp: 17770

Ion	Ratio	Lower	Upper
122	100		
105	110.3	106.9	146.9
77	95.0	75.1	115.1

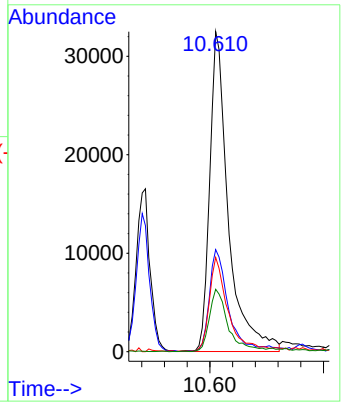




#33
4-Chloroaniline
Concen: 8.88 ng
RT: 10.610 min Scan# 1
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:127 Resp: 7399

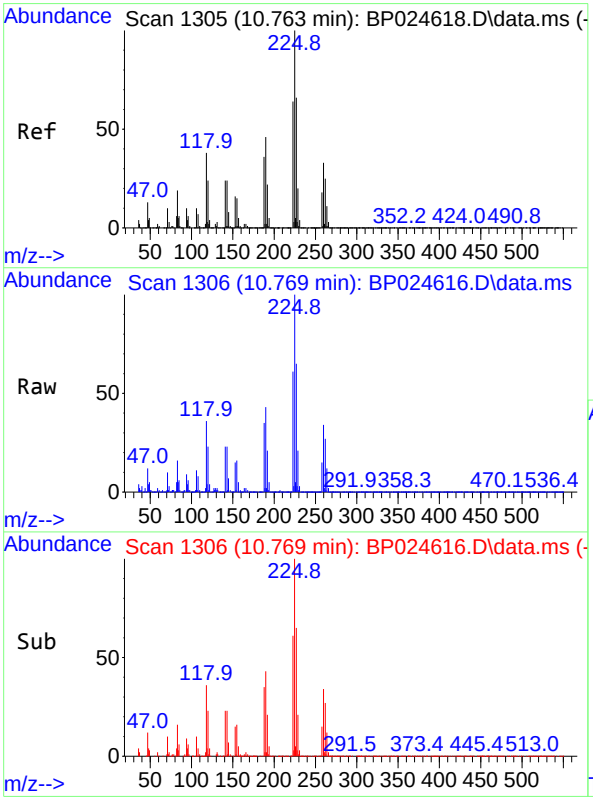
Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.8	38.6
65	29.5	23.9	35.9
92	19.5	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

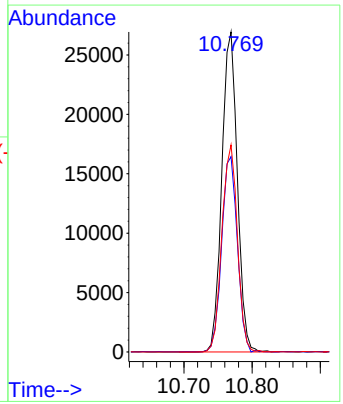
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

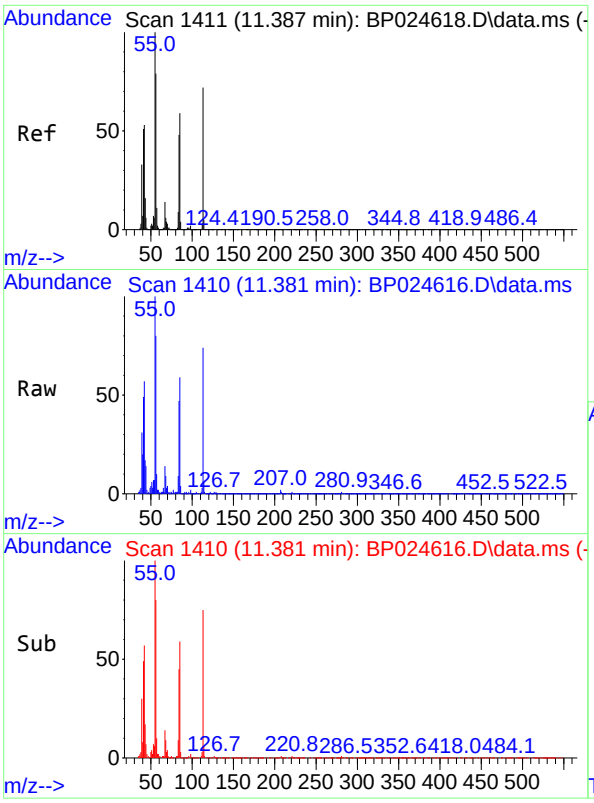


#34
Hexachlorobutadiene
Concen: 10.03 ng
RT: 10.769 min Scan# 1306
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:225 Resp: 42567

Ion	Ratio	Lower	Upper
225	100		
223	61.0	51.0	76.6
227	64.7	53.1	79.7

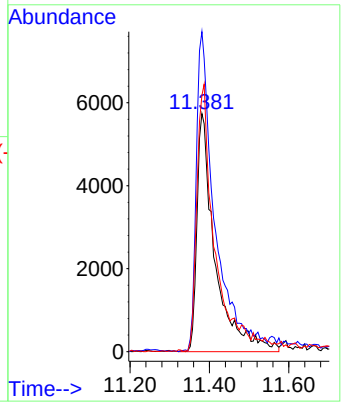




#35
Caprolactam
Concen: 8.68 ng m
RT: 11.381 min Scan# 14
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:113 Resp: 1824

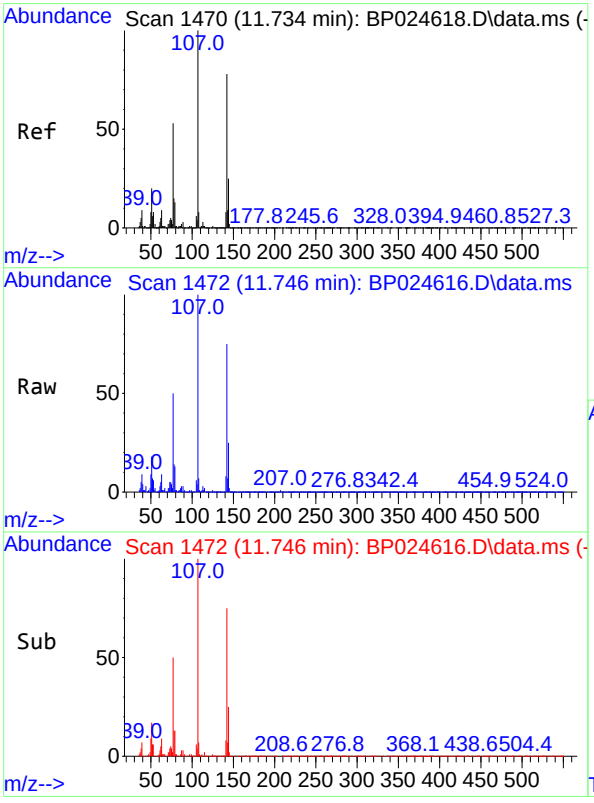
Ion	Ratio	Lower	Upper
113	100		
55	134.4	119.0	159.0
56	107.7	90.3	130.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

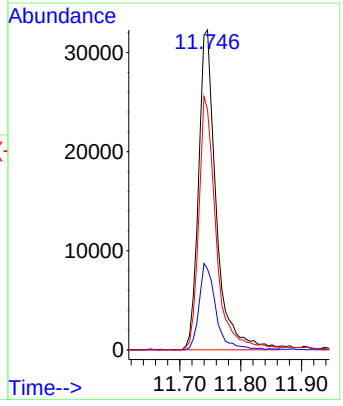
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

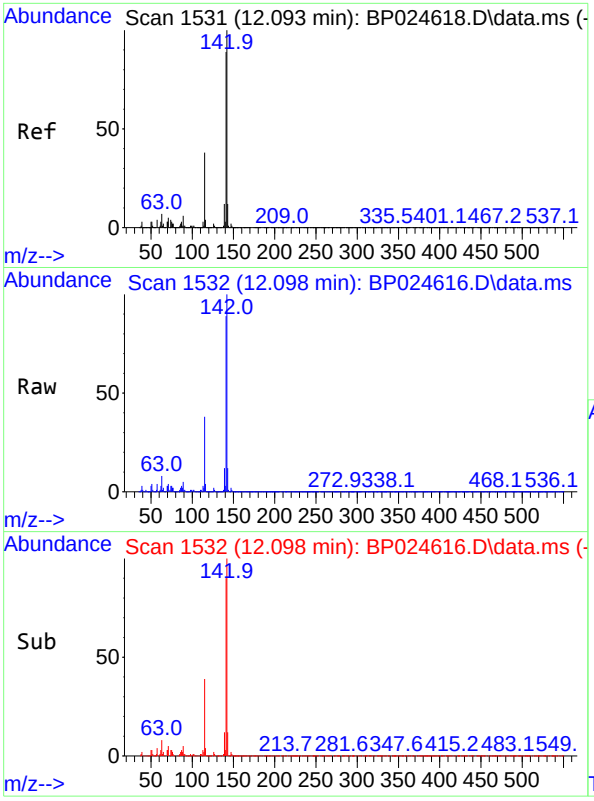


#36
4-Chloro-3-methylphenol
Concen: 9.15 ng
RT: 11.746 min Scan# 1472
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:107 Resp: 64857

Ion	Ratio	Lower	Upper
107	100		
144	25.3	20.1	30.1
142	75.0	62.1	93.1

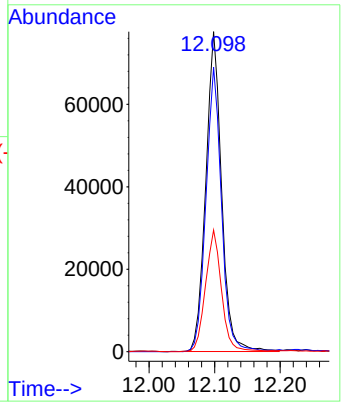




#37
2-Methylnaphthalene
Concen: 9.75 ng
RT: 12.098 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:142 Resp: 13041

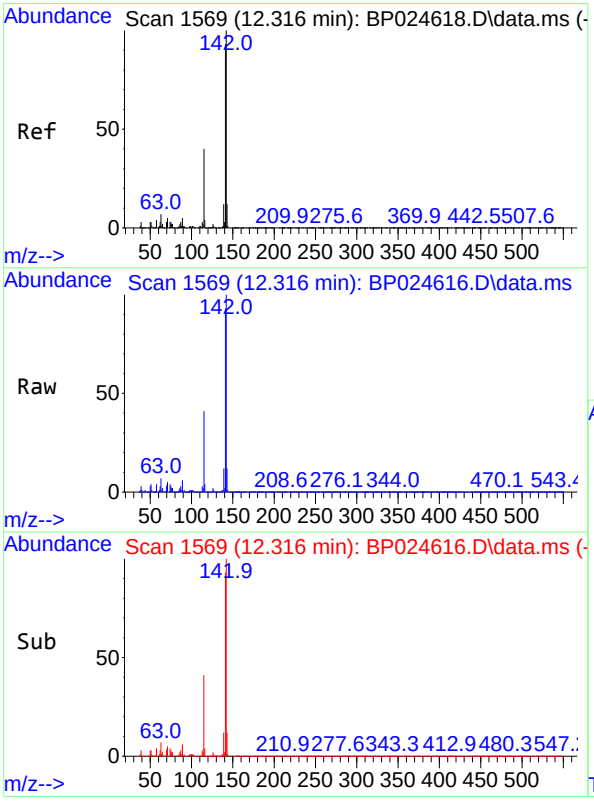
Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.2	106.8
115	38.0	30.6	46.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

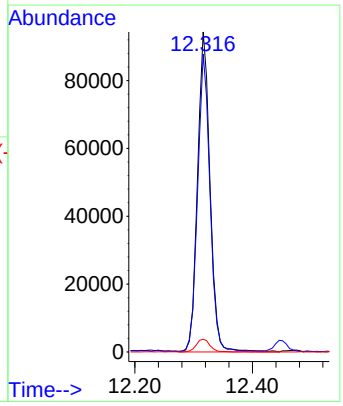
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

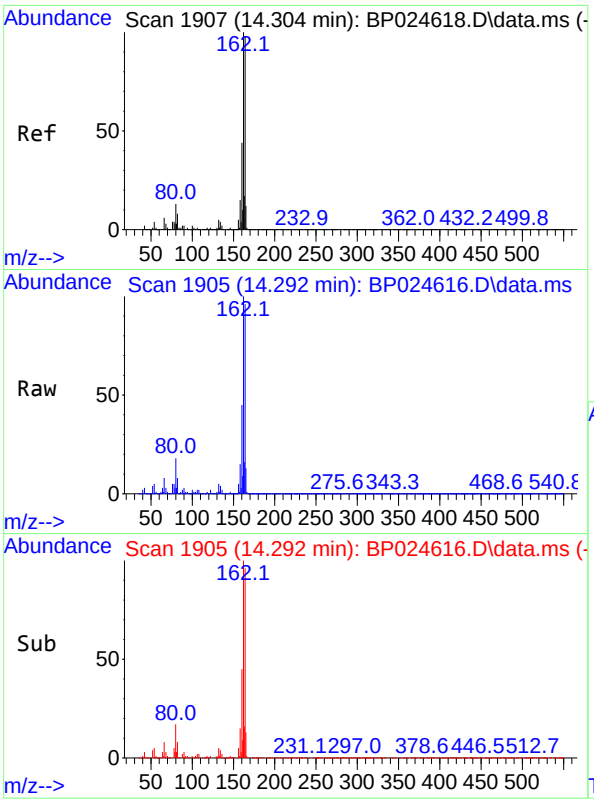


#38
1-Methylnaphthalene
Concen: 9.75 ng
RT: 12.316 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:142 Resp: 139573

Ion	Ratio	Lower	Upper
142	100		
141	93.1	74.7	112.1
116	4.0	3.4	5.2

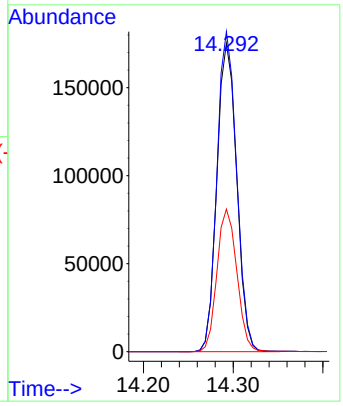




#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.292 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:164 Resp: 26833

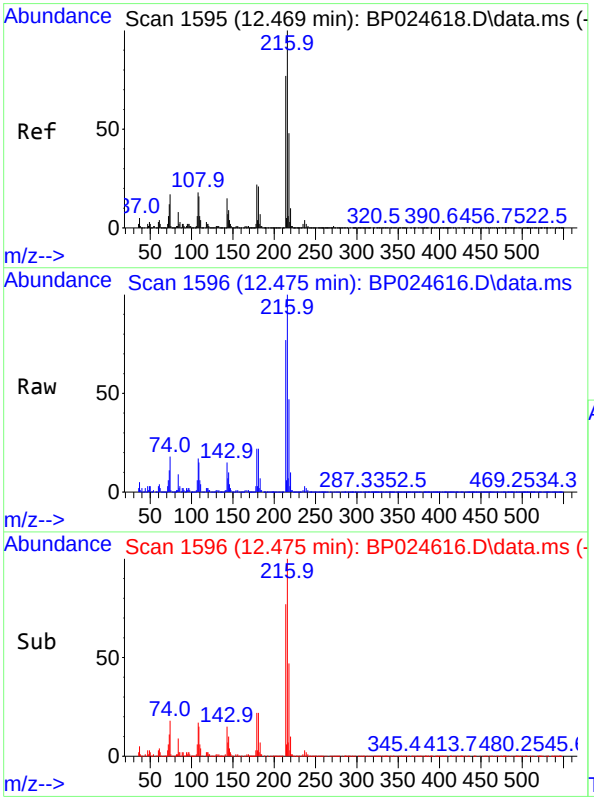
Ion	Ratio	Lower	Upper
164	100		
162	103.8	81.8	122.6
160	46.2	36.3	54.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

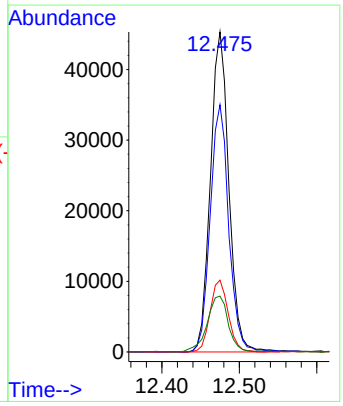
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

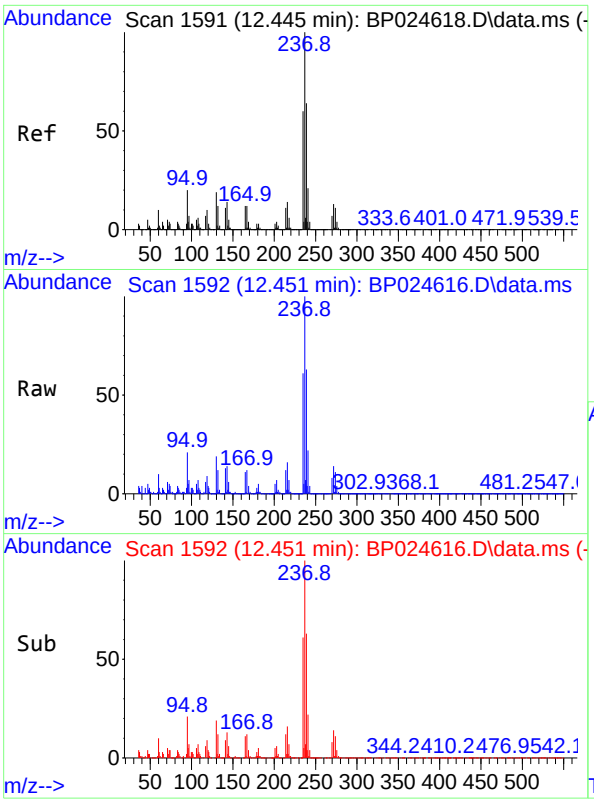


#40
1,2,4,5-Tetrachlorobenzene
Concen: 9.60 ng
RT: 12.475 min Scan# 1596
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:216 Resp: 74824

Ion	Ratio	Lower	Upper
216	100		
214	77.9	62.3	93.5
179	22.2	17.7	26.5
108	20.0	16.0	24.0

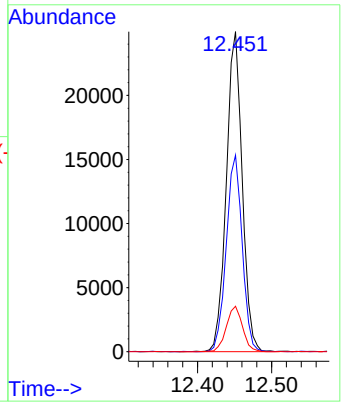




#41
Hexachlorocyclopentadiene
Concen: 7.85 ng
RT: 12.451 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:237 Resp: 3707

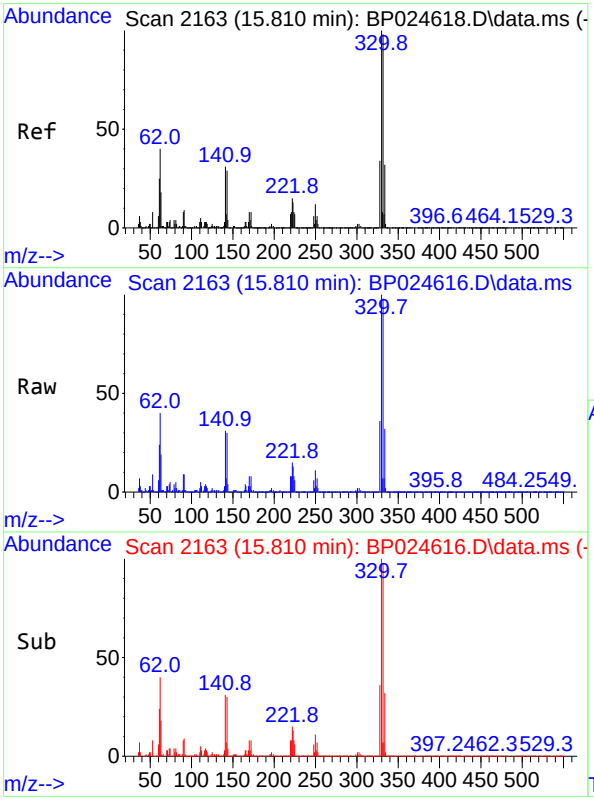
Ion	Ratio	Lower	Upper
237	100		
235	61.4	39.9	79.9
272	14.2	0.0	33.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

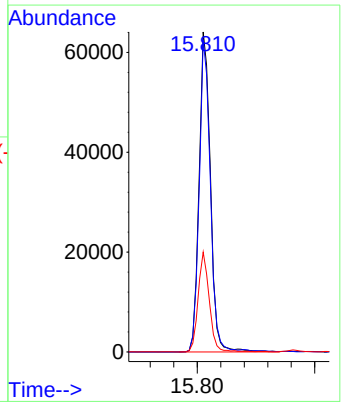
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

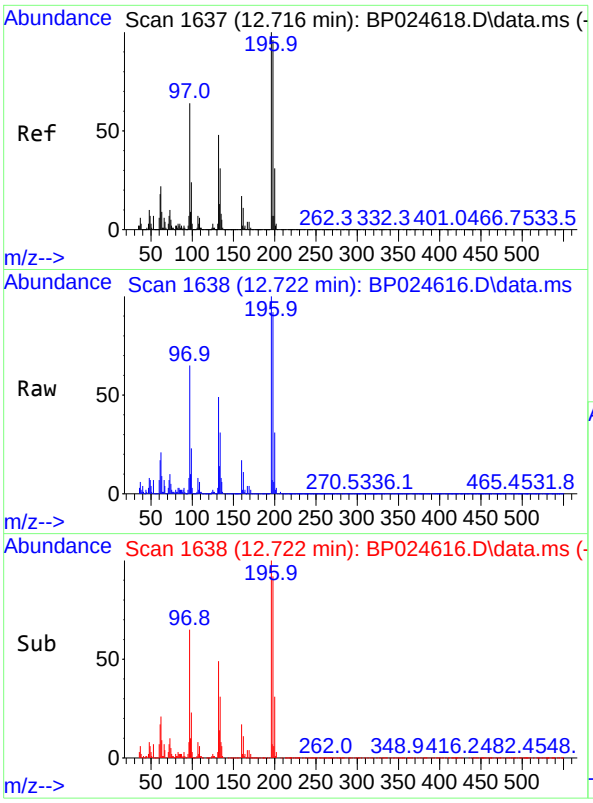


#42
2,4,6-Tribromophenol
Concen: 18.93 ng
RT: 15.810 min Scan# 2163
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:330 Resp: 86099

Ion	Ratio	Lower	Upper
330	100		
332	95.1	78.2	117.4
141	30.5	24.3	36.5

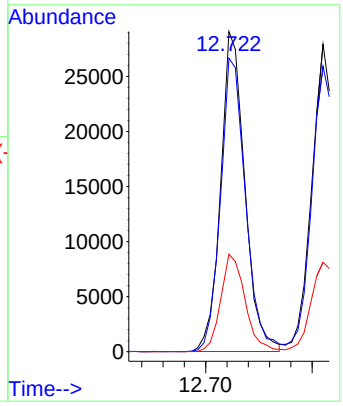




#43
2,4,6-Trichlorophenol
Concen: 9.07 ng
RT: 12.722 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:196 Resp: 4579

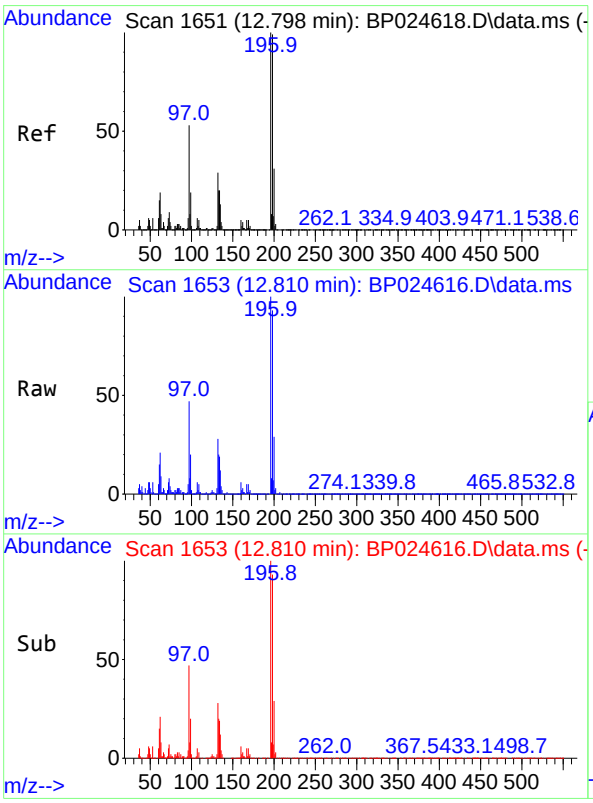
Ion	Ratio	Lower	Upper
196	100		
198	91.7	76.9	115.3
200	30.5	25.2	37.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

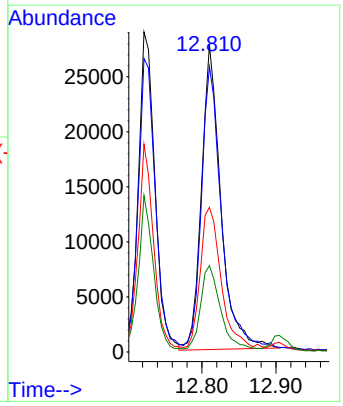
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

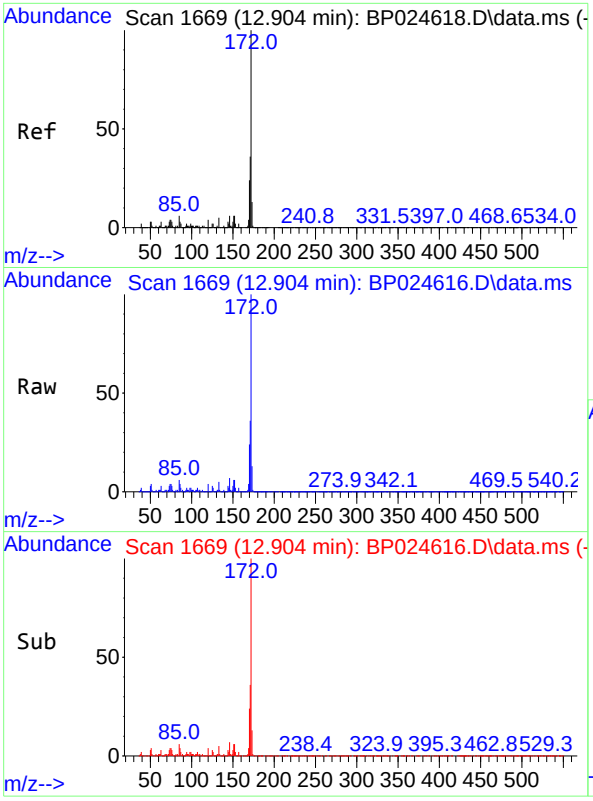


#44
2,4,5-Trichlorophenol
Concen: 8.96 ng
RT: 12.810 min Scan# 1653
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:196 Resp: 50348

Ion	Ratio	Lower	Upper
196	100		
198	92.8	79.2	118.8
97	47.0	42.3	63.5
132	28.1	23.3	34.9

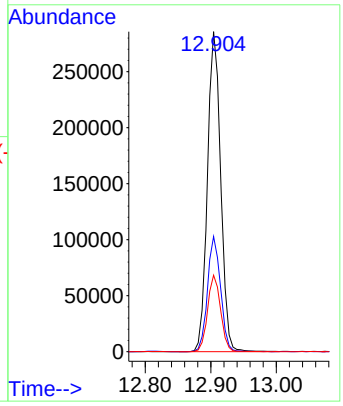




#45
2-Fluorobiphenyl
Concen: 19.63 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:172 Resp: 40198

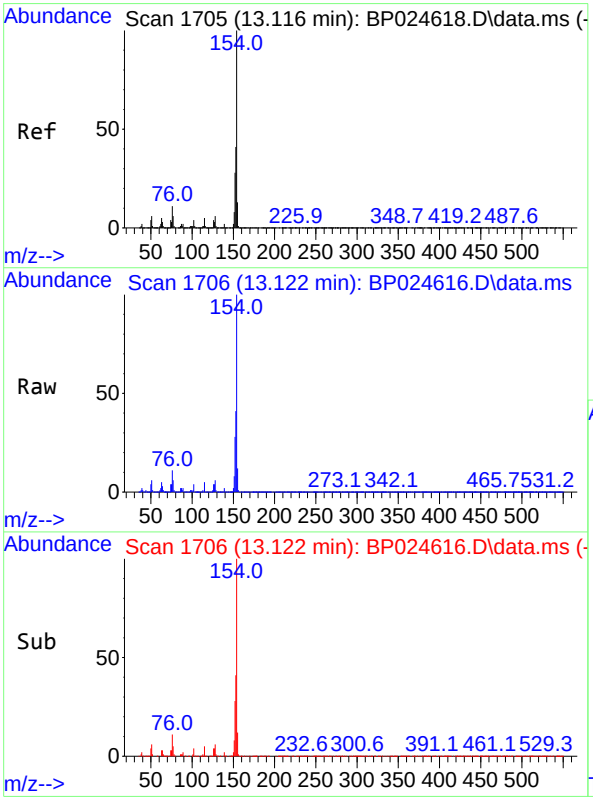
Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.9	18.8	28.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

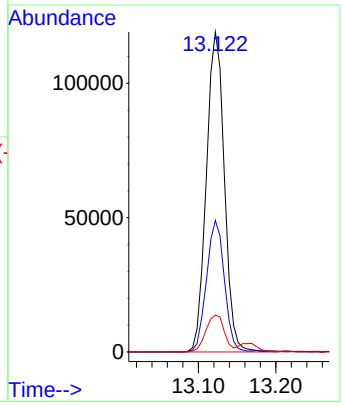
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

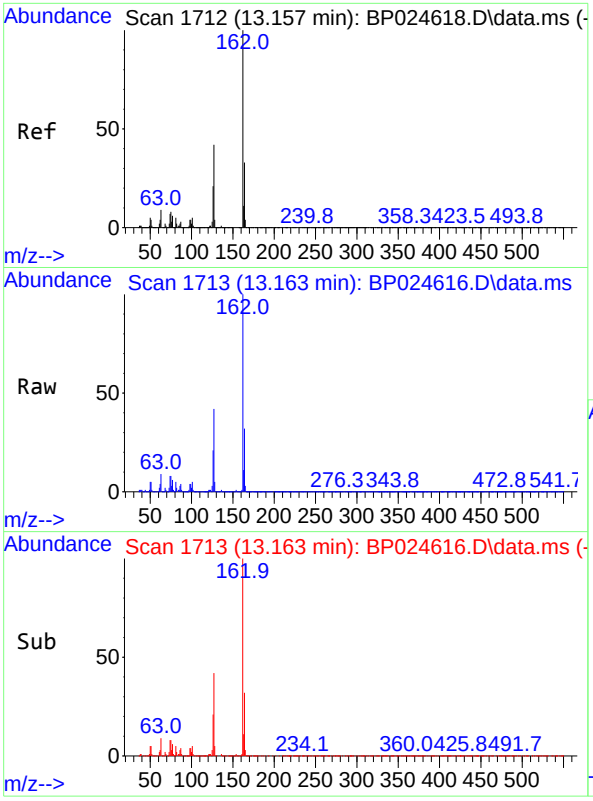


#46
1,1'-Biphenyl
Concen: 9.70 ng
RT: 13.122 min Scan# 1706
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:154 Resp: 192445

Ion	Ratio	Lower	Upper
154	100		
153	41.1	21.0	61.0
76	11.5	0.0	31.5

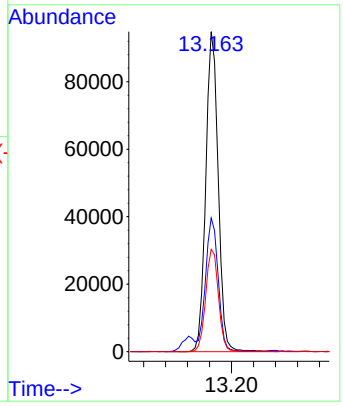




#47
2-Chloronaphthalene
Concen: 9.82 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:162 Resp: 14844

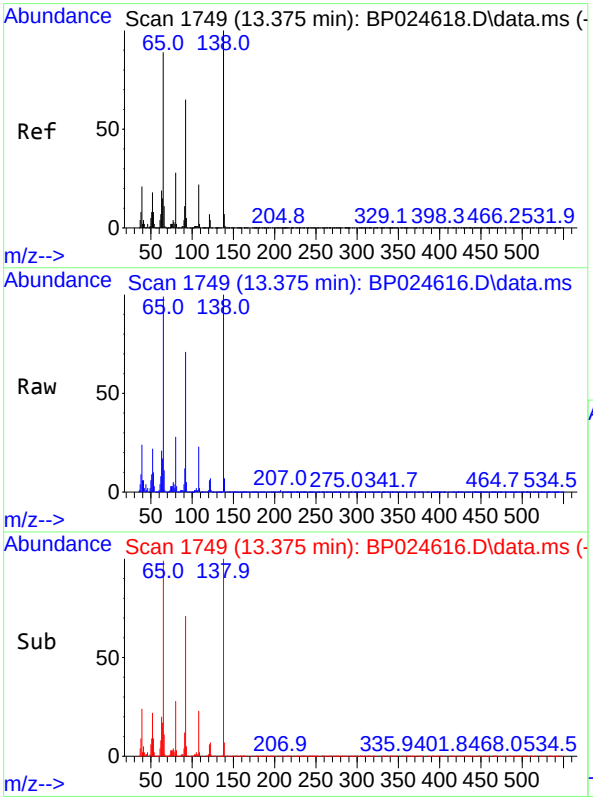
Ion	Ratio	Lower	Upper
162	100		
127	41.8	33.8	50.6
164	32.0	26.0	39.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

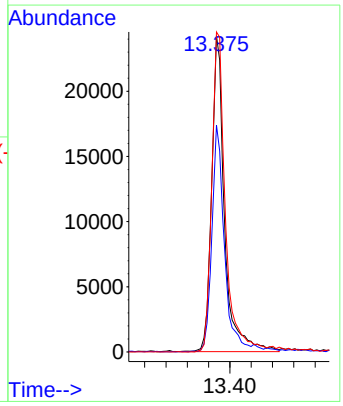
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

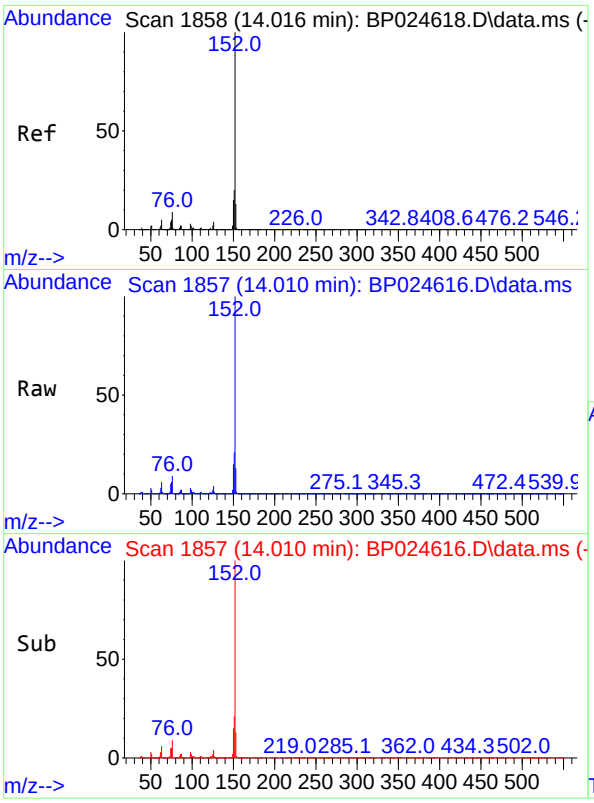


#48
2-Nitroaniline
Concen: 9.11 ng
RT: 13.375 min Scan# 1749
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 65 Resp: 40786

Ion	Ratio	Lower	Upper
65	100		
92	71.8	58.7	88.1
138	101.2	90.2	135.2

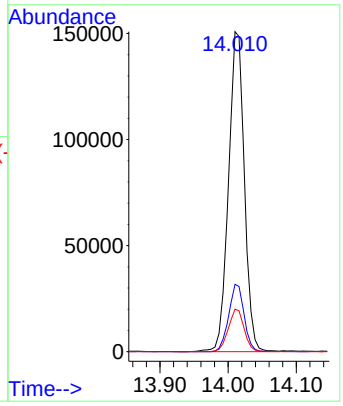




#49
Acenaphthylene
Concen: 9.64 ng
RT: 14.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:152 Resp: 24391

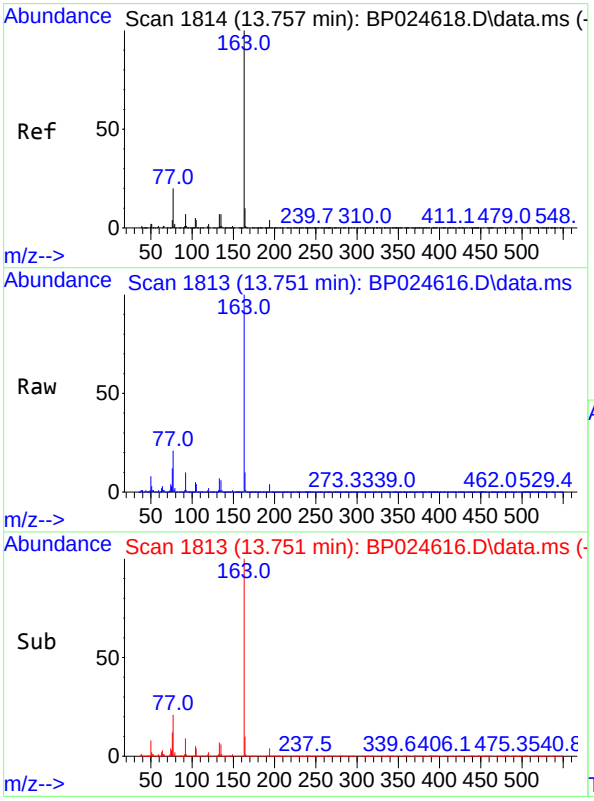
Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.2	24.4
153	13.3	10.2	15.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

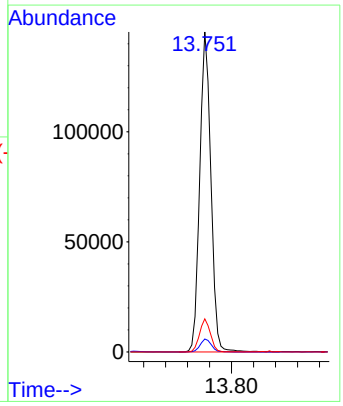
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

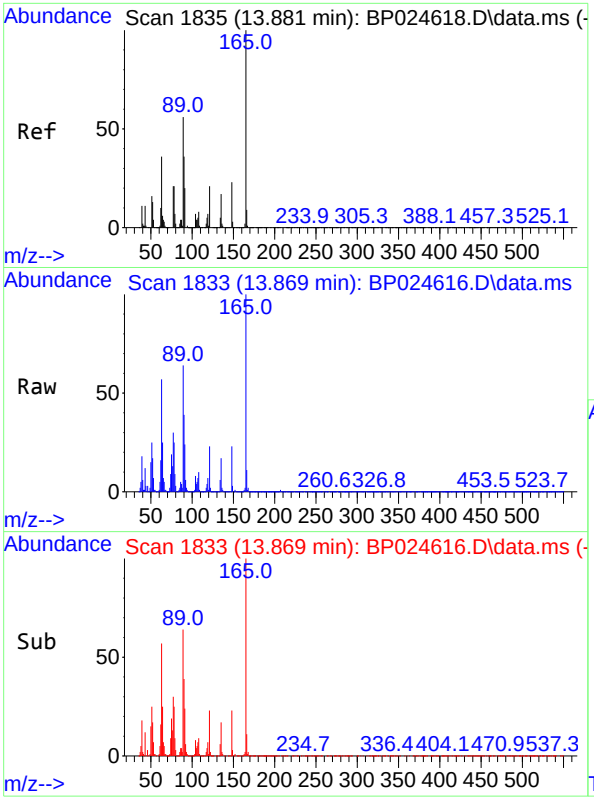


#50
Dimethylphthalate
Concen: 10.01 ng
RT: 13.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:163 Resp: 204825

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.3	8.1	12.1

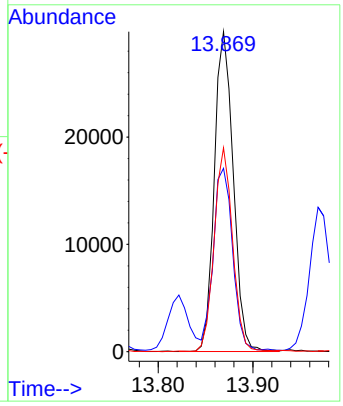




#51
2,6-Dinitrotoluene
Concen: 9.55 ng
RT: 13.869 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:165 Resp: 4125

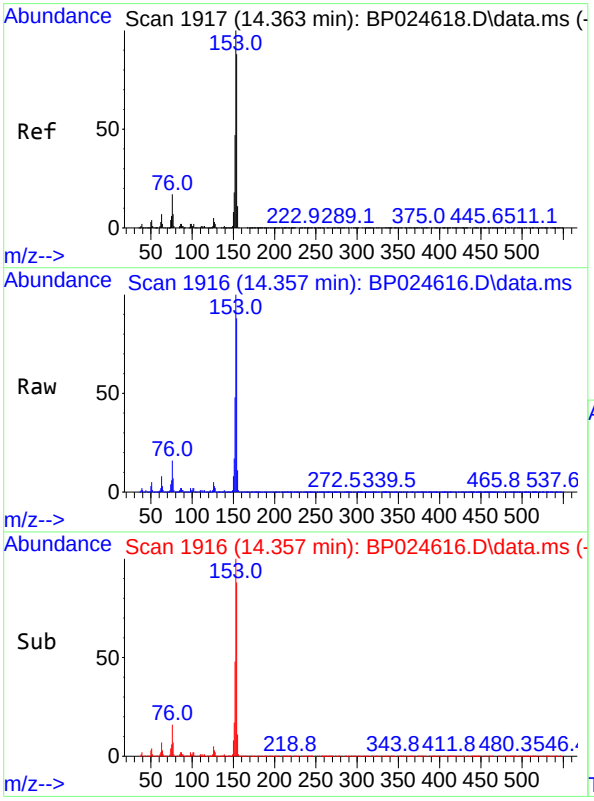
Ion	Ratio	Lower	Upper
165	100		
63	57.3	42.4	63.6
89	63.7	44.8	67.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

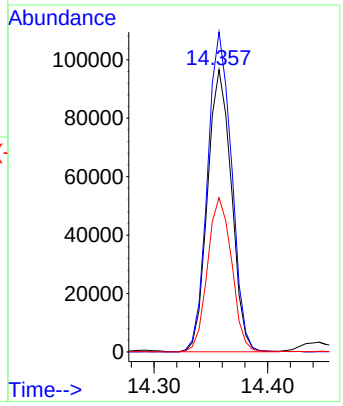
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

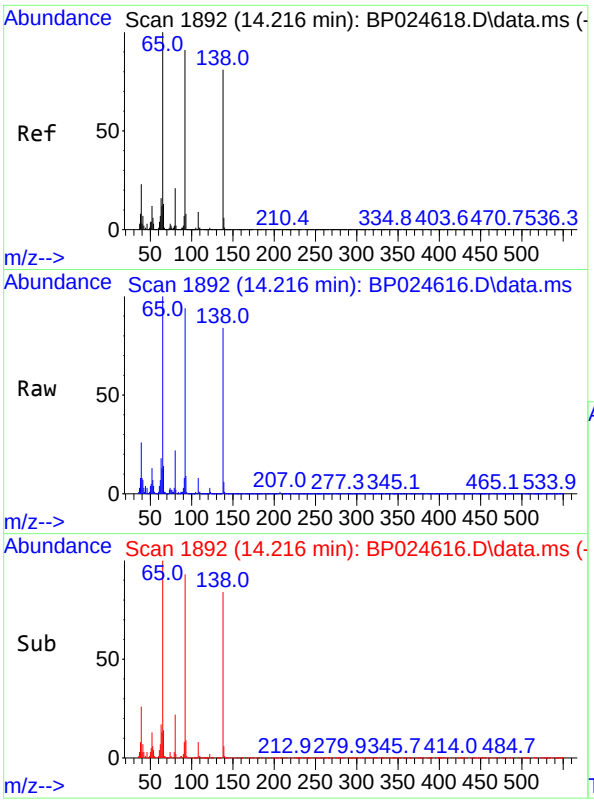


#52
Acenaphthene
Concen: 9.72 ng
RT: 14.357 min Scan# 1916
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:154 Resp: 141360

Ion	Ratio	Lower	Upper
154	100		
153	113.4	91.0	136.4
152	54.6	42.9	64.3

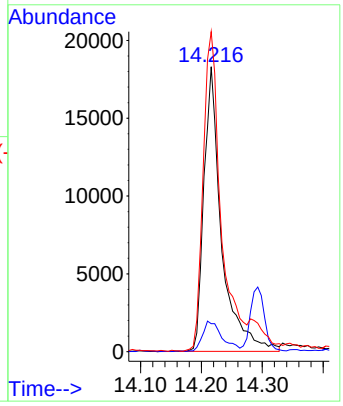




#53
3-Nitroaniline
Concen: 8.37 ng
RT: 14.216 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:138 Resp: 3690

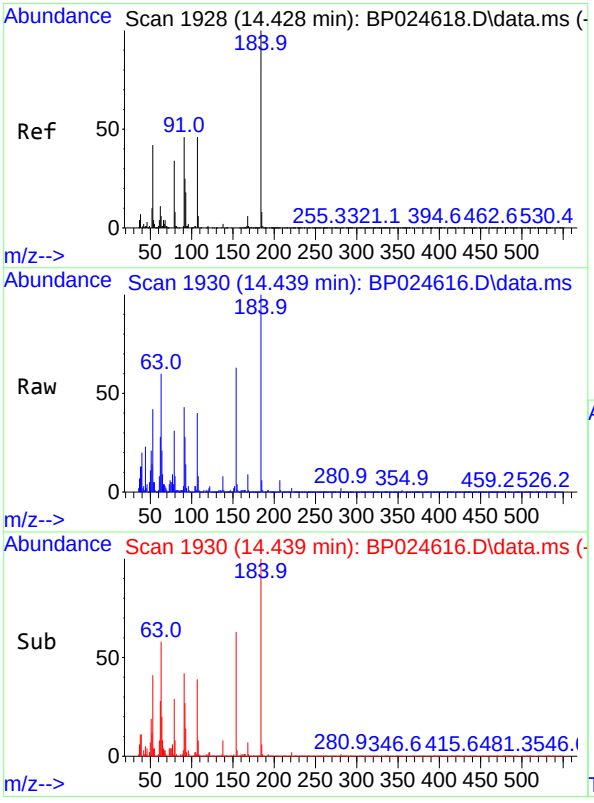
Ion	Ratio	Lower	Upper
138	100		
108	9.9	9.0	13.4
92	112.3	90.1	135.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

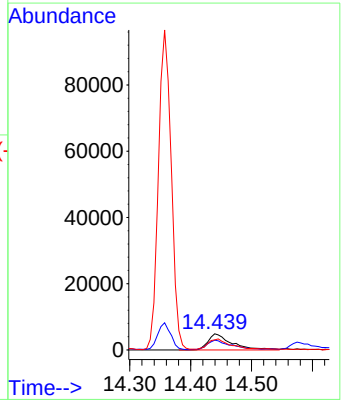
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

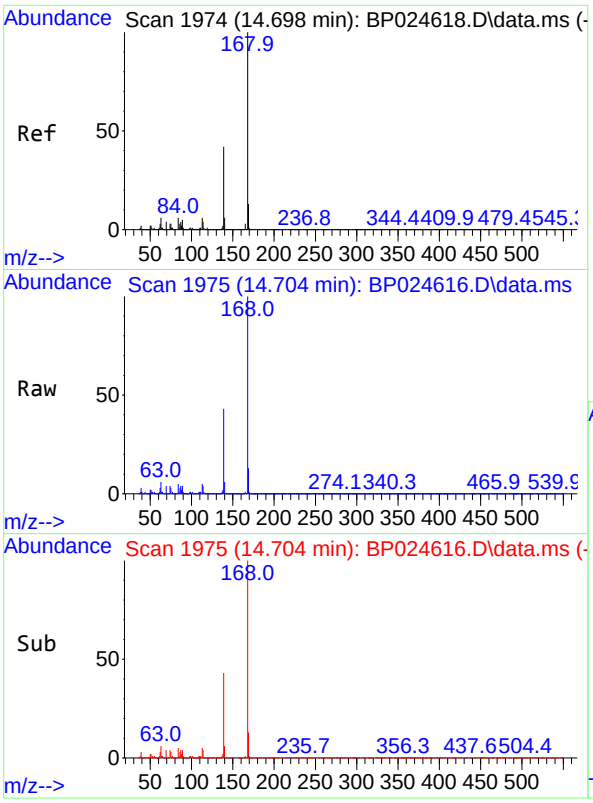


#54
2,4-Dinitrophenol
Concen: 10.84 ng
RT: 14.439 min Scan# 1930
Delta R.T. 0.011 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:184 Resp: 13128

Ion	Ratio	Lower	Upper
184	100		
63	60.3	51.3	76.9
154	62.9	53.5	80.3

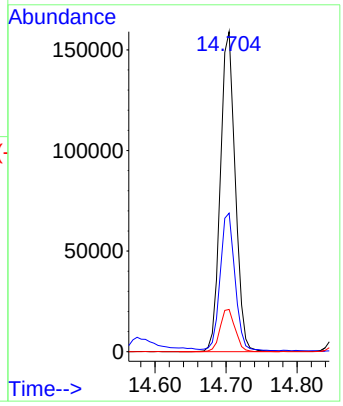




#55
Dibenzofuran
Concen: 9.92 ng
RT: 14.704 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:168 Resp: 23028

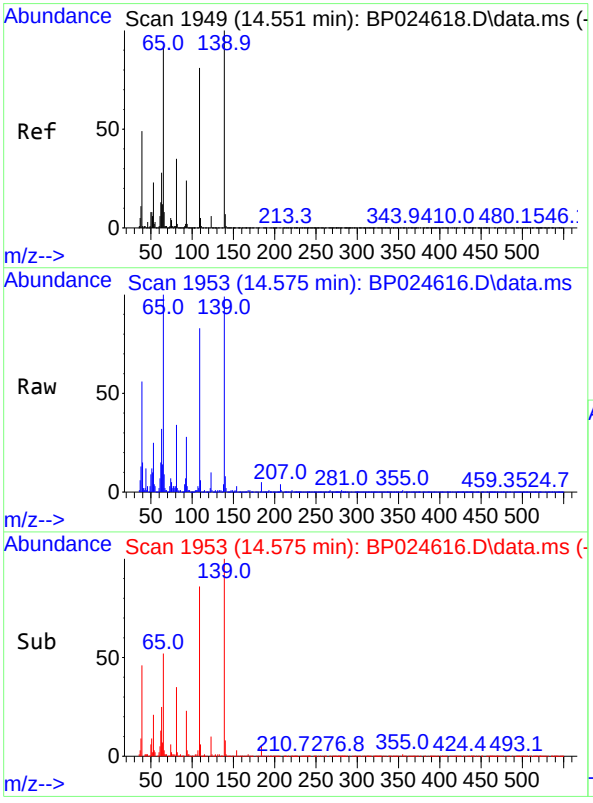
Ion	Ratio	Lower	Upper
168	100		
139	43.3	34.2	51.4
169	13.2	10.8	16.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

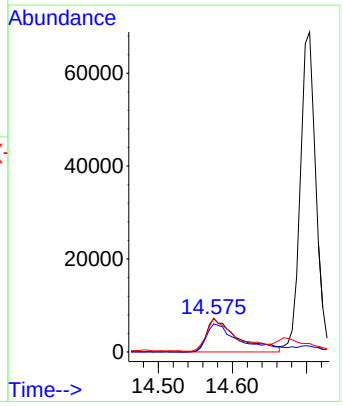
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

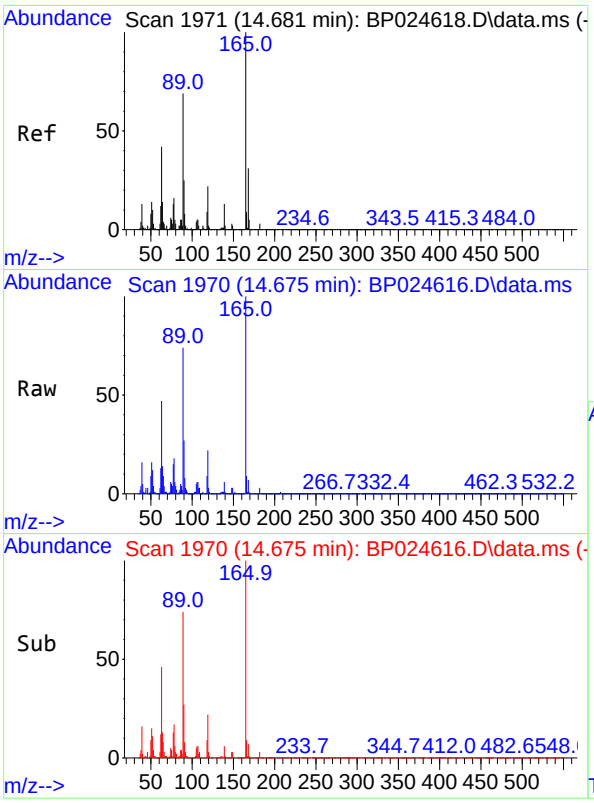


#56
4-Nitrophenol
Concen: 9.53 ng
RT: 14.575 min Scan# 1953
Delta R.T. 0.024 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:139 Resp: 21349

Ion	Ratio	Lower	Upper
139	100		
109	84.4	61.4	101.4
65	101.4	72.2	112.2

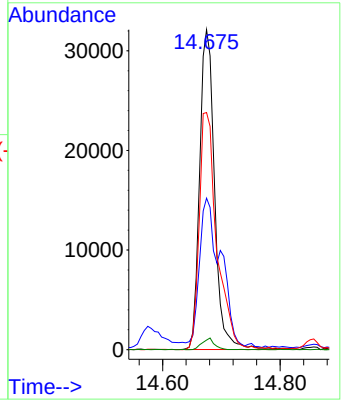




#57
2,4-Dinitrotoluene
Concen: 9.30 ng
RT: 14.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:165 Resp: 5661

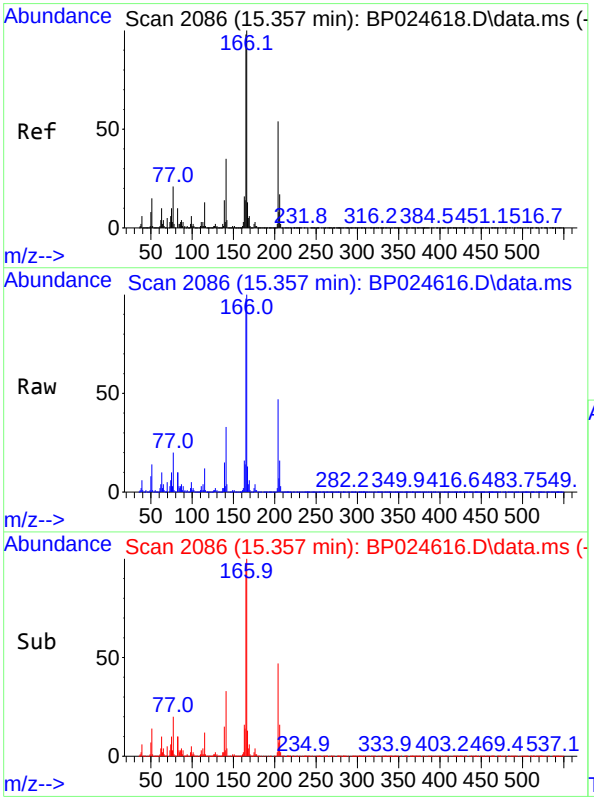
Ion	Ratio	Lower	Upper
165	100		
63	47.4	33.8	50.6
89	74.1	55.6	83.4
182	3.0	2.4	3.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

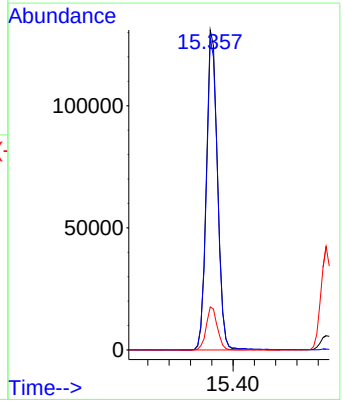
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

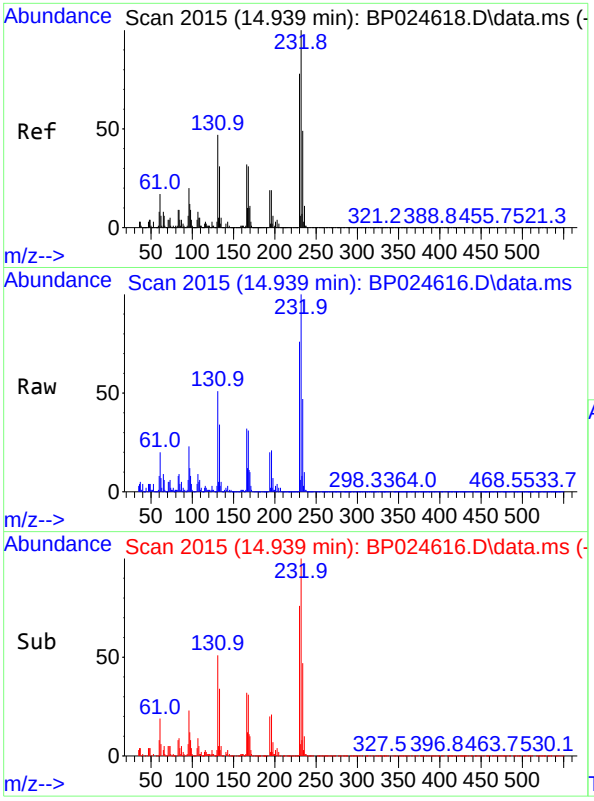


#58
Fluorene
Concen: 10.03 ng
RT: 15.357 min Scan# 2086
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:166 Resp: 189781

Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.5	117.7
167	13.5	10.7	16.1

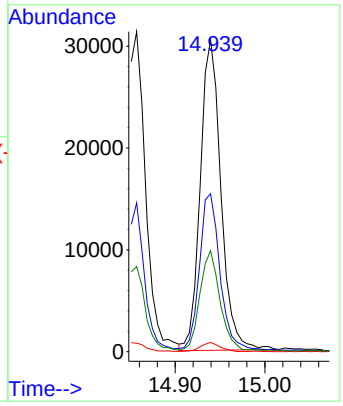




#59
2,3,4,6-Tetrachlorophenol
Concen: 9.37 ng
RT: 14.939 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:232 Resp: 4882

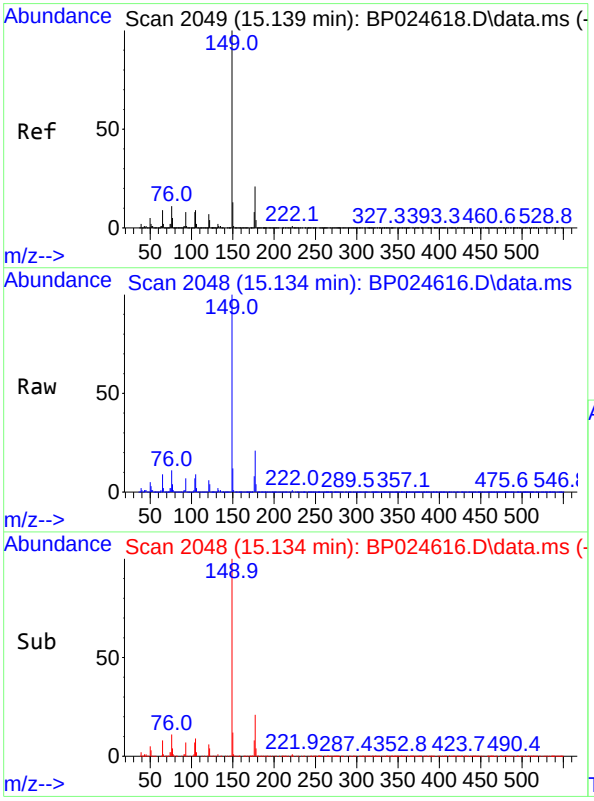
Ion	Ratio	Lower	Upper
232	100		
131	50.6	39.5	59.3
130	2.8	2.2	3.4
166	32.1	25.7	38.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

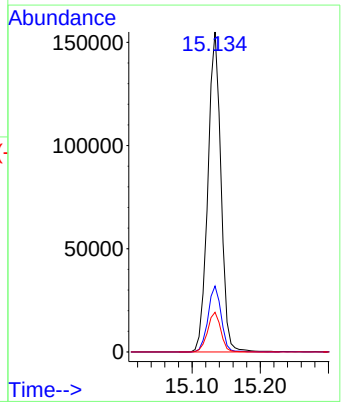
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

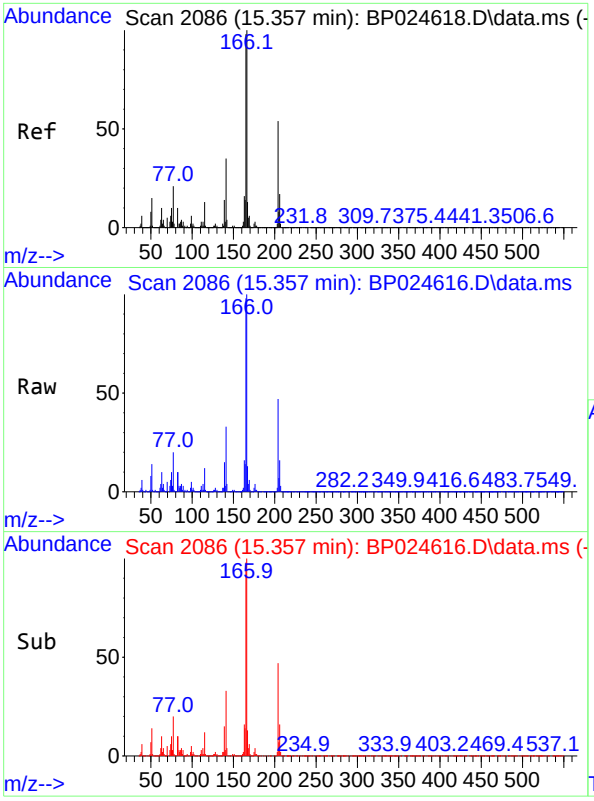


#60
Diethylphthalate
Concen: 10.01 ng
RT: 15.134 min Scan# 2048
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:149 Resp: 206886

Ion	Ratio	Lower	Upper
149	100		
177	20.6	16.7	25.1
150	12.4	10.2	15.2

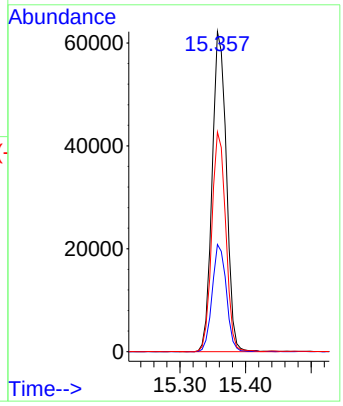




#61
4-Chlorophenyl-phenylether
Concen: 9.91 ng
RT: 15.357 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:204 Resp: 9351

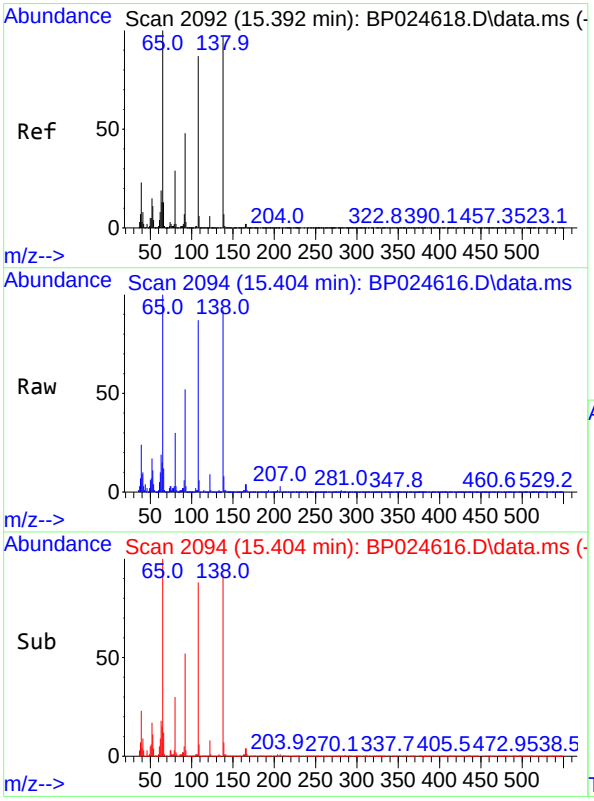
Ion	Ratio	Lower	Upper
204	100		
206	33.5	26.0	39.0
141	68.7	52.9	79.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

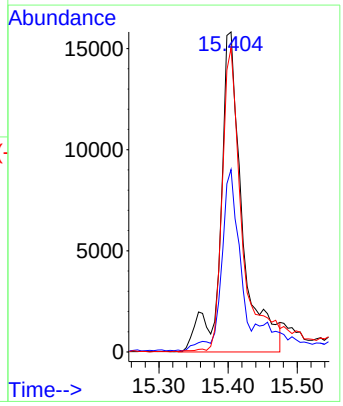
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

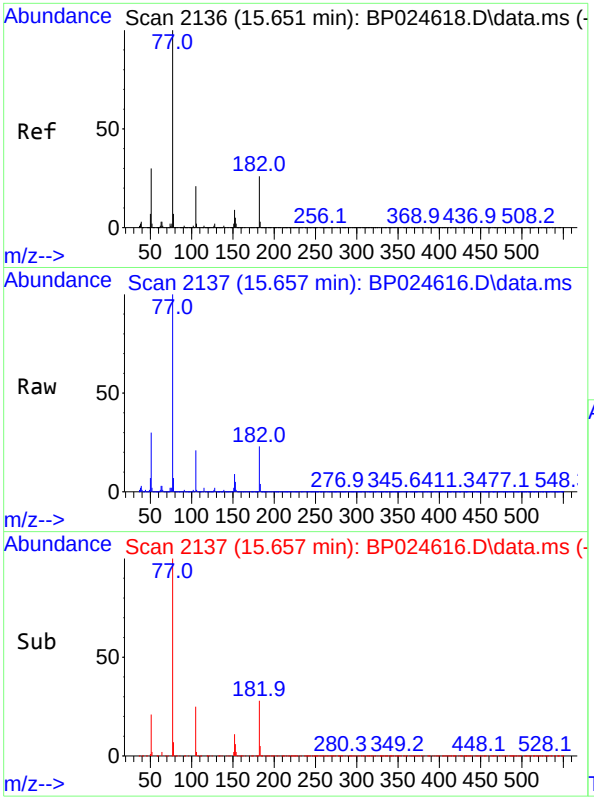


#62
4-Nitroaniline
Concen: 8.11 ng m
RT: 15.404 min Scan# 2094
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:138 Resp: 34813

Ion	Ratio	Lower	Upper
138	100		
92	57.0	29.2	69.2
108	95.0	69.0	109.0

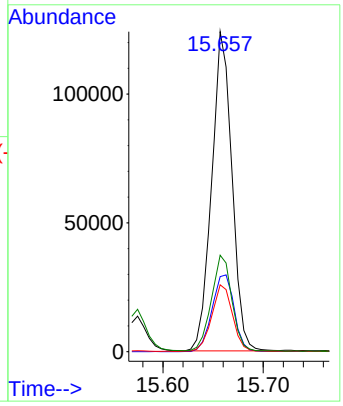




#63
Azobenzene
Concen: 9.86 ng
RT: 15.657 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 77 Resp: 17432

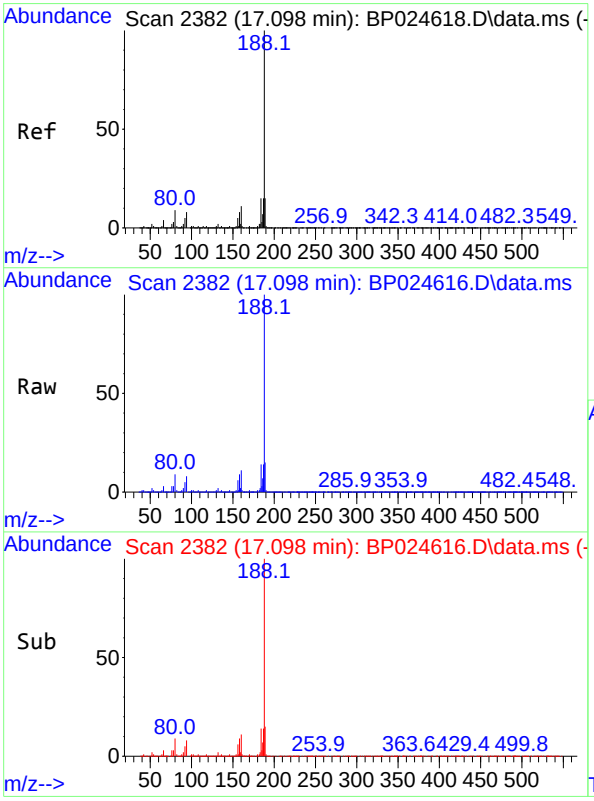
Ion	Ratio	Lower	Upper
77	100		
182	23.5	5.7	45.7
105	20.9	1.3	41.3
51	30.1	10.6	50.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

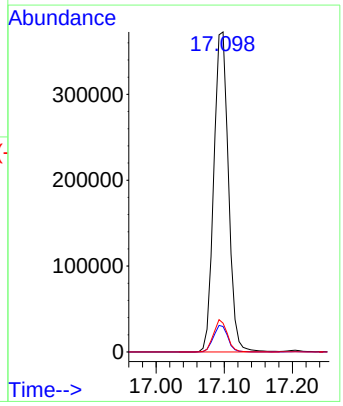
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

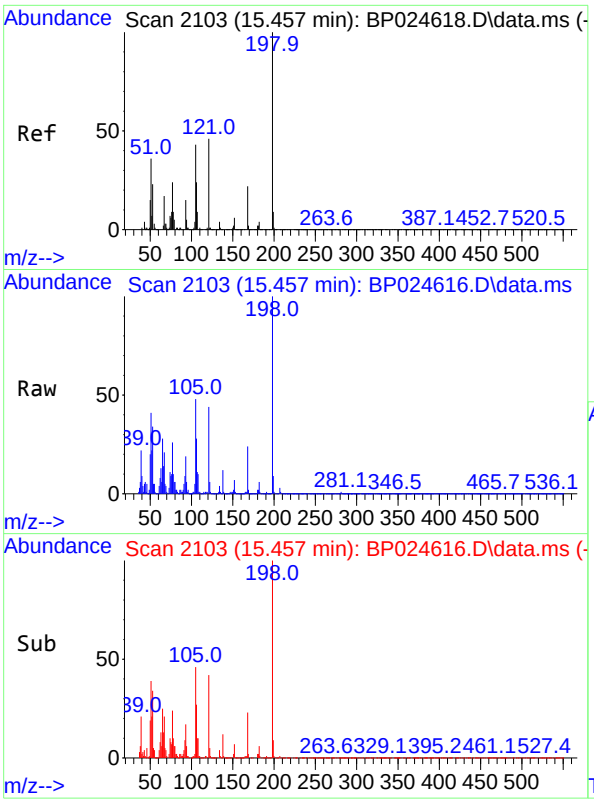


#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.098 min Scan# 2382
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:188 Resp: 556673

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.5	9.7
80	9.0	7.3	10.9

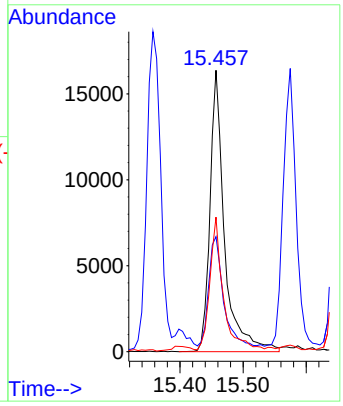




#65
4,6-Dinitro-2-methylphenol
Concen: 7.28 ng
RT: 15.457 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:198 Resp: 2617

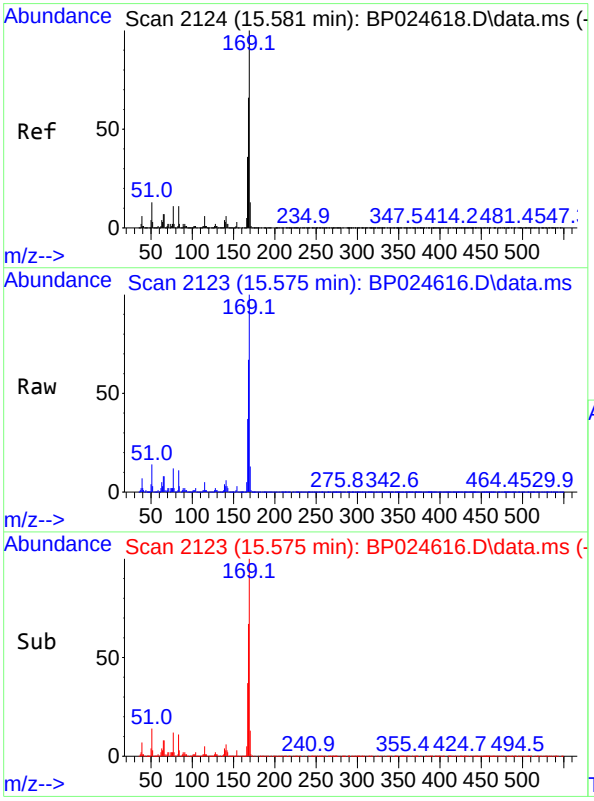
Ion	Ratio	Lower	Upper
198	100		
51	40.9	21.1	61.1
105	47.8	23.6	63.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

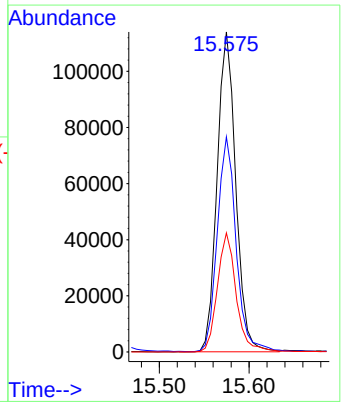
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

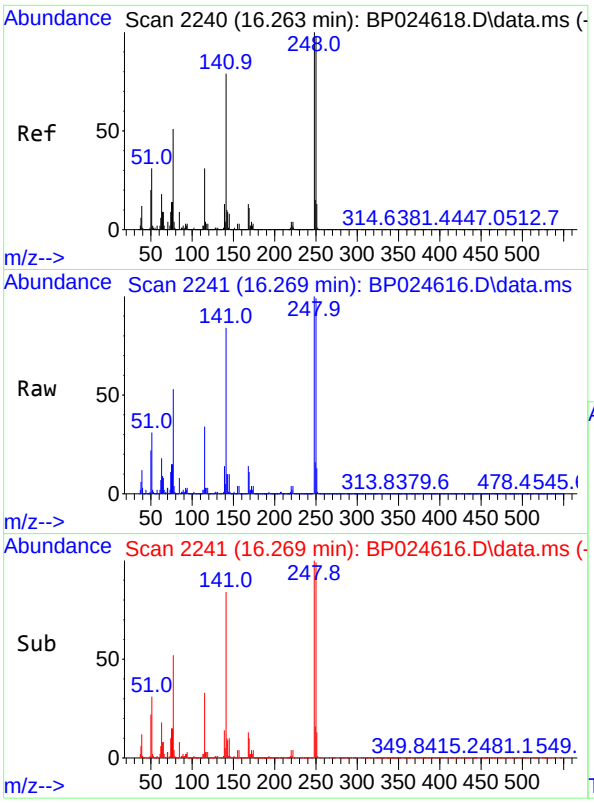


#66
n-Nitrosodiphenylamine
Concen: 9.59 ng
RT: 15.575 min Scan# 2123
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:169 Resp: 164008

Ion	Ratio	Lower	Upper
169	100		
168	67.2	53.2	79.8
167	37.2	28.6	43.0

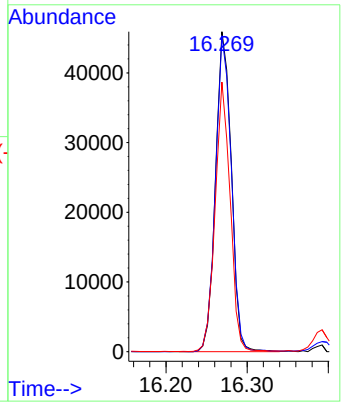




#67
4-Bromophenyl-phenylether
Concen: 9.45 ng
RT: 16.269 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:248 Resp: 6201

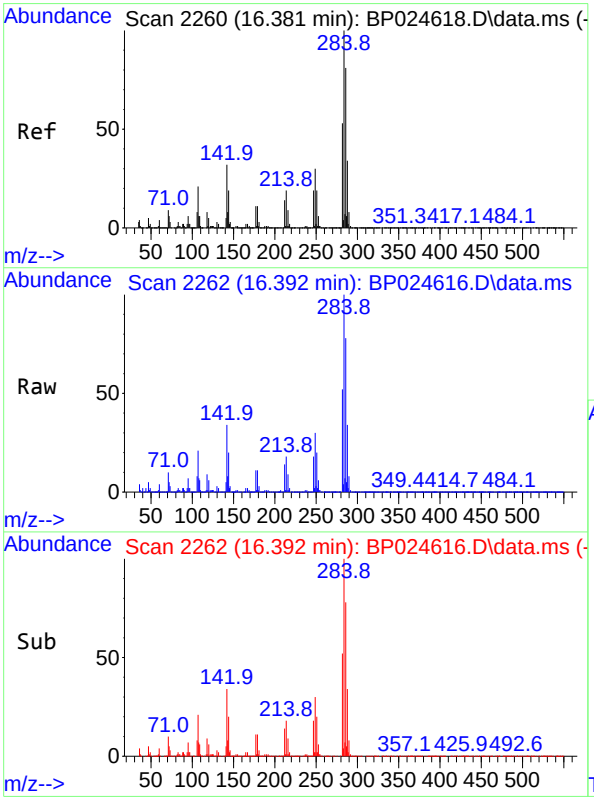
Ion	Ratio	Lower	Upper
248	100		
250	98.7	78.2	117.4
141	84.3	63.0	94.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

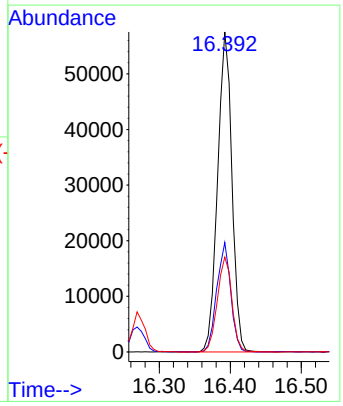
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

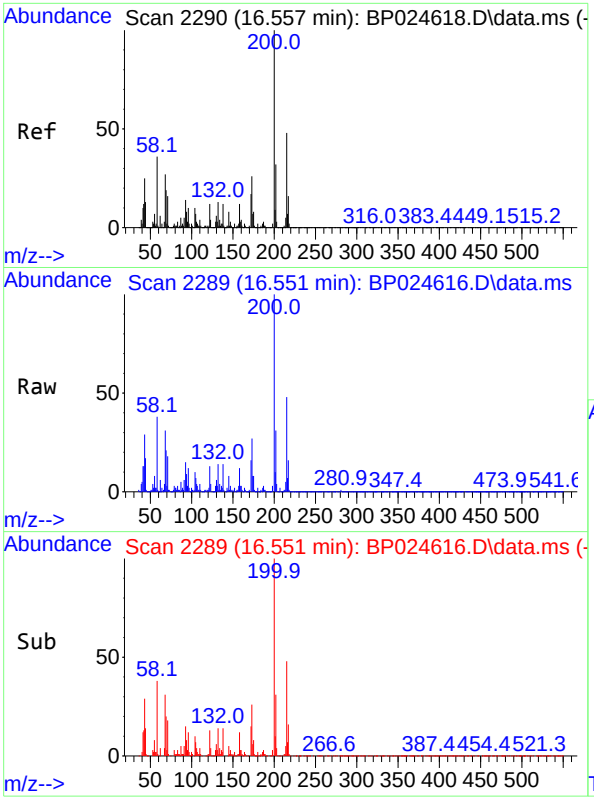


#68
Hexachlorobenzene
Concen: 9.61 ng
RT: 16.392 min Scan# 2262
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:284 Resp: 80088

Ion	Ratio	Lower	Upper
284	100		
142	34.2	25.9	38.9
249	29.6	24.1	36.1

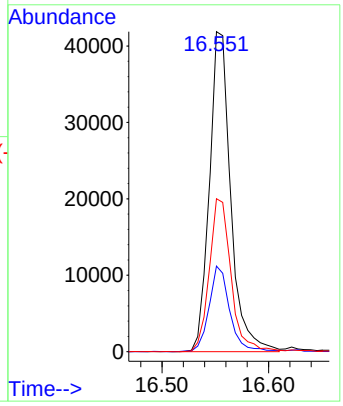




#69
Atrazine
Concen: 9.30 ng
RT: 16.551 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:200 Resp: 5824

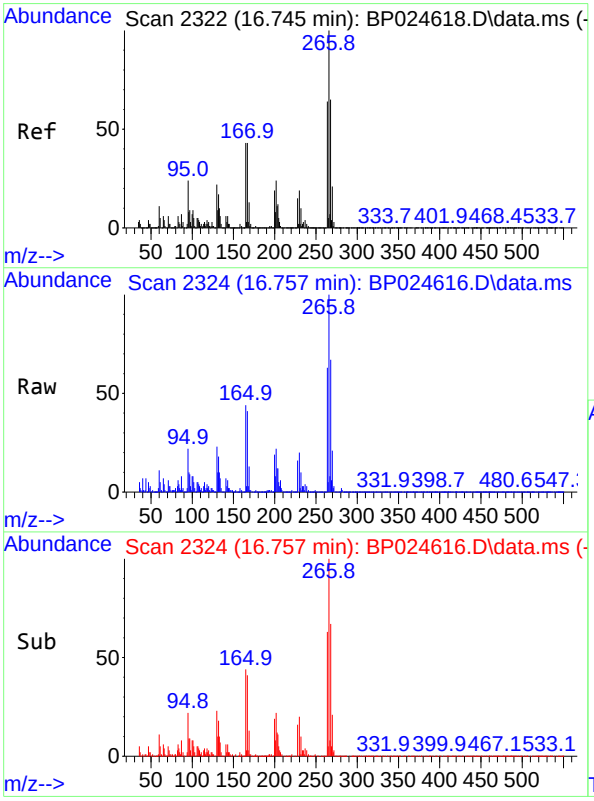
Ion	Ratio	Lower	Upper
200	100		
173	26.8	5.9	45.9
215	47.8	28.3	68.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

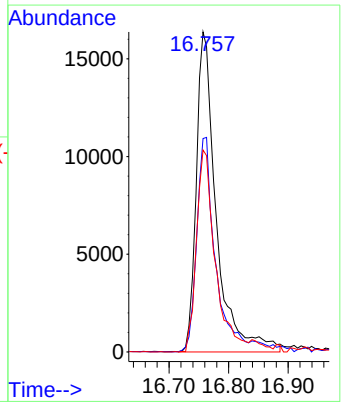
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

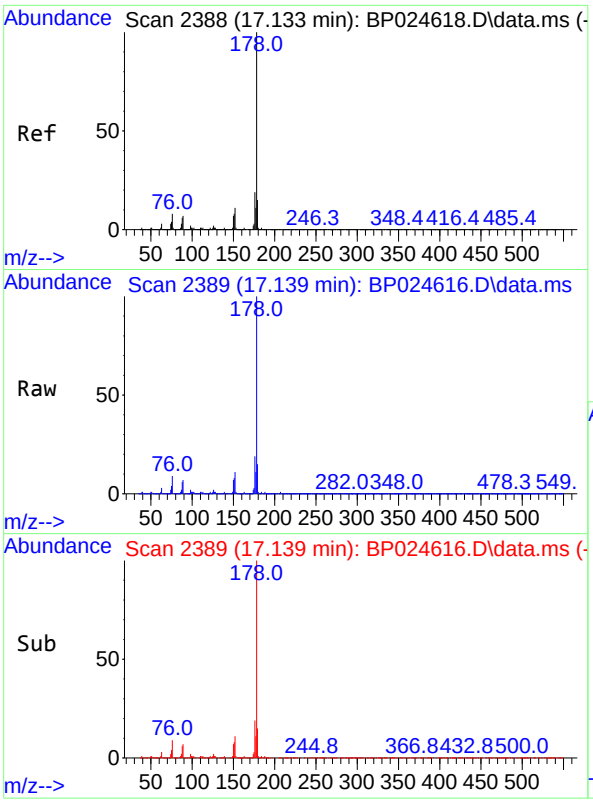


#70
Pentachlorophenol
Concen: 8.14 ng m
RT: 16.757 min Scan# 2324
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:266 Resp: 38095

Ion	Ratio	Lower	Upper
266	100		
268	66.7	52.2	78.4
264	63.1	51.1	76.7

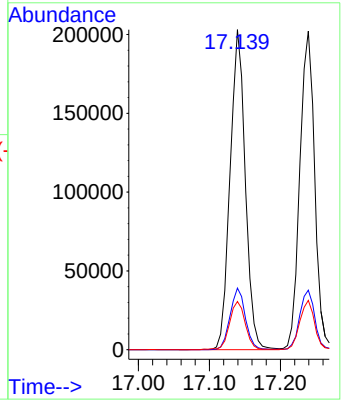




#71
Phenanthrene
Concen: 9.75 ng
RT: 17.139 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:178 Resp: 30186

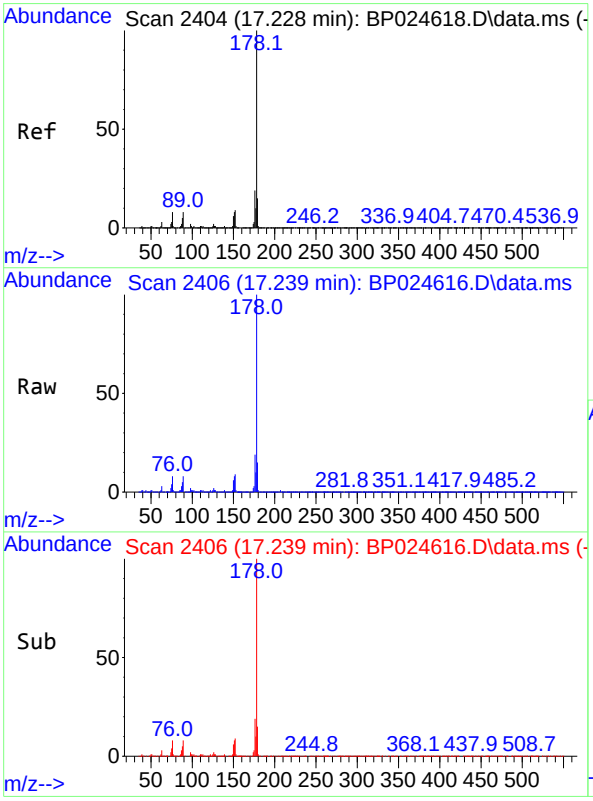
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.1	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

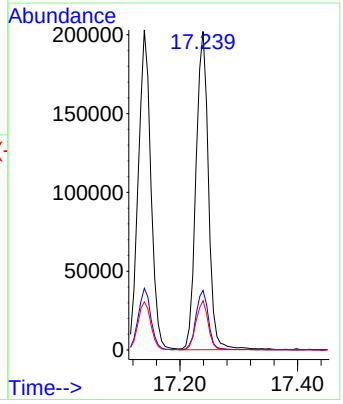
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

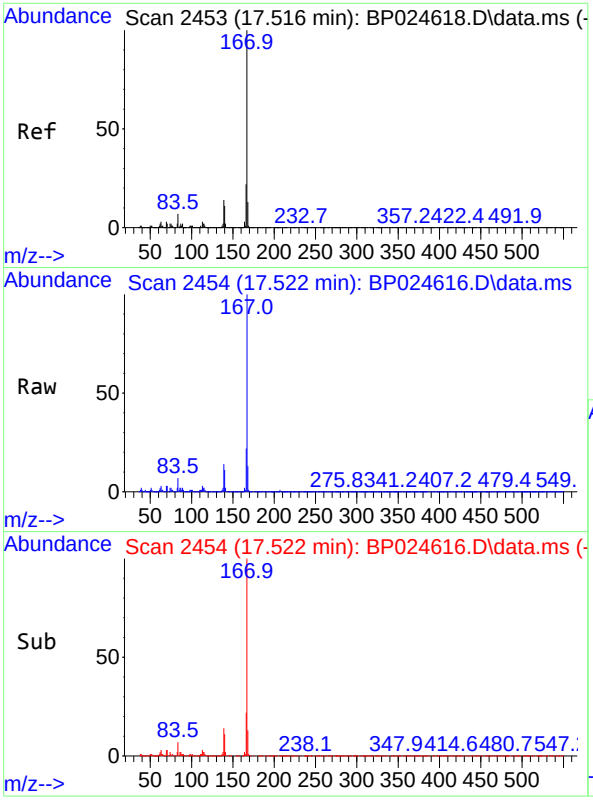


#72
Anthracene
Concen: 9.51 ng
RT: 17.239 min Scan# 2406
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:178 Resp: 296146

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.5	12.2	18.2





#73
Carbazole
Concen: 9.32 ng
RT: 17.522 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

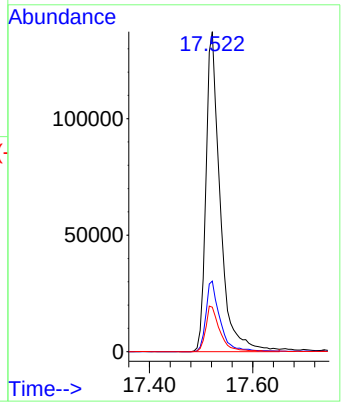
Tgt Ion:167 Resp: 26268

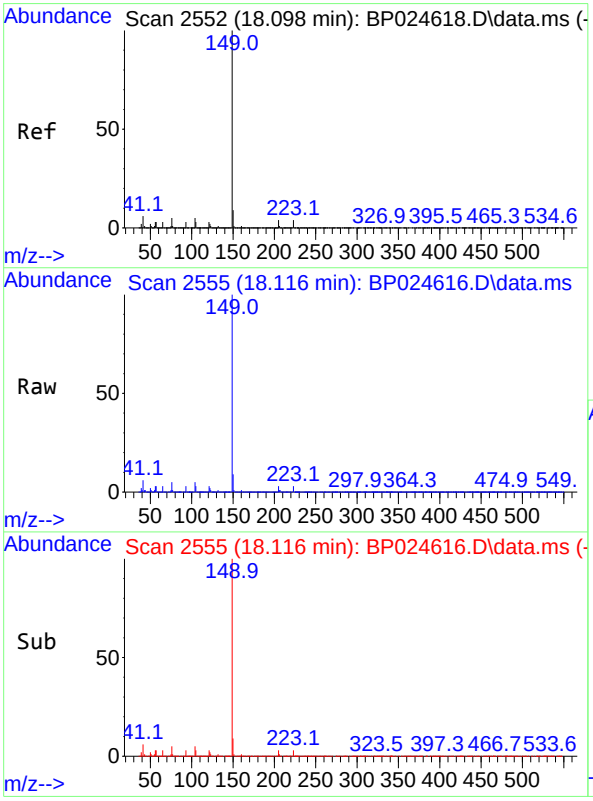
Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.7	26.5
139	13.9	11.3	16.9

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

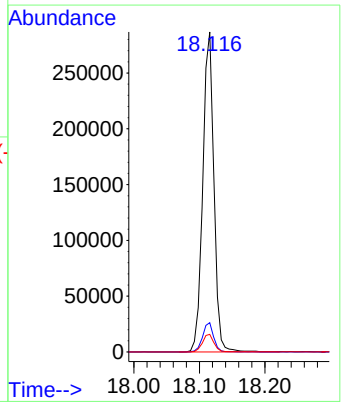


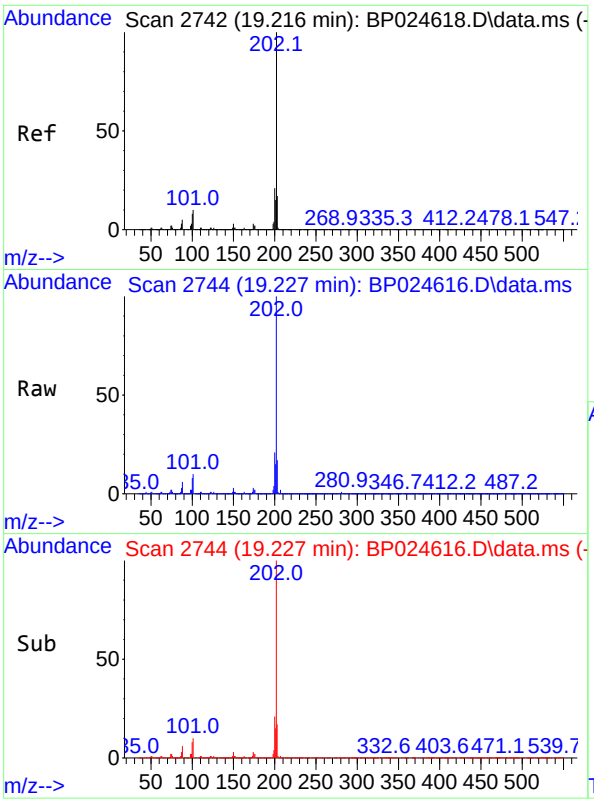


#74
Di-n-butylphthalate
Concen: 9.35 ng
RT: 18.116 min Scan# 2555
Delta R.T. 0.018 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:149 Resp: 338893

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.2	10.8
104	5.5	4.3	6.5

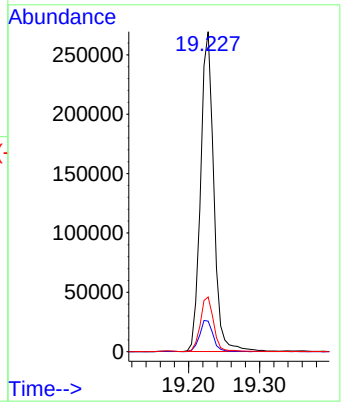




#75
Fluoranthene
Concen: 9.65 ng
RT: 19.227 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:202 Resp: 34908

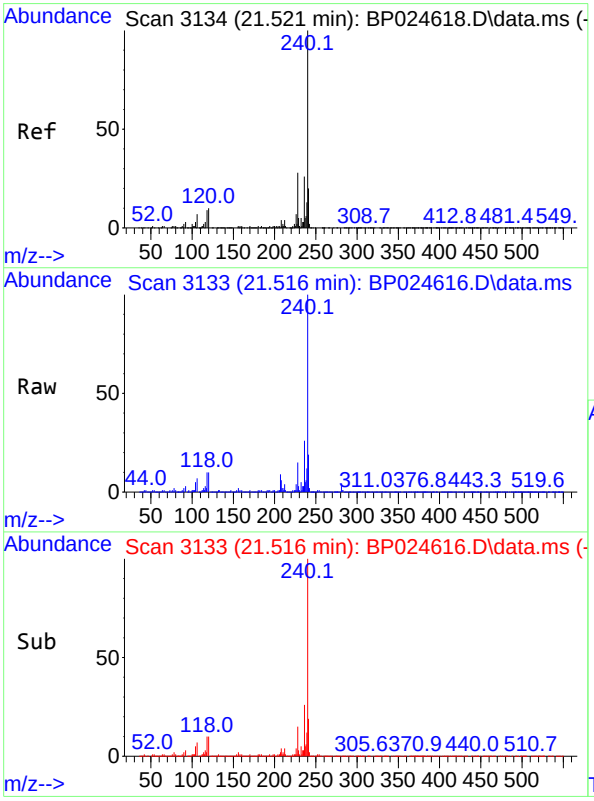
Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	30.3
203	17.1	0.0	37.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

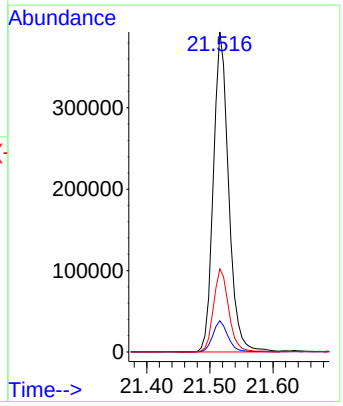
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

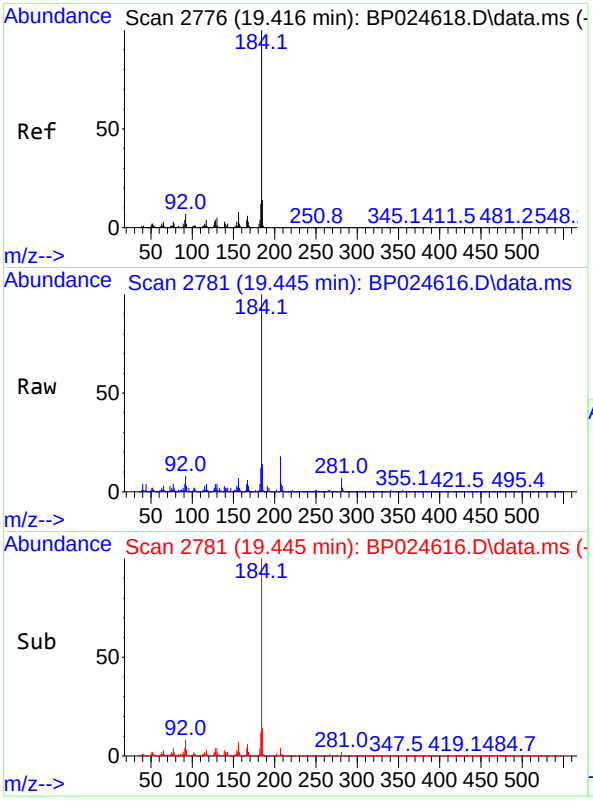


#76
Chrysene-d12
Concen: 20.00 ng
RT: 21.516 min Scan# 3133
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:240 Resp: 659092

Ion	Ratio	Lower	Upper
240	100		
120	9.8	7.8	11.6
236	25.9	20.6	31.0

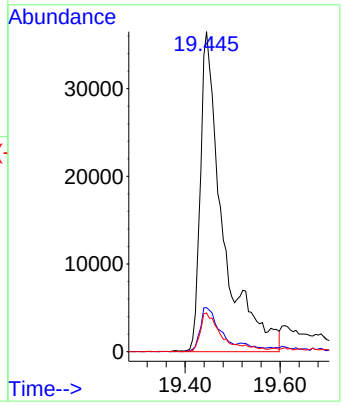




#77
Benzidine
Concen: 6.59 ng m
RT: 19.445 min Scan# 2
Delta R.T. 0.029 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:184 Resp: 11922

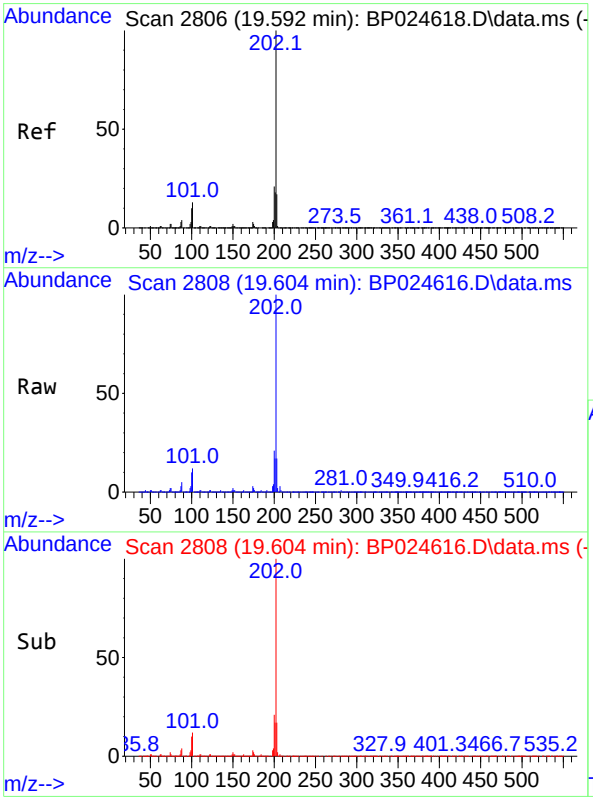
Ion	Ratio	Lower	Upper
184	100		
185	13.7	11.2	16.8
183	12.1	9.8	14.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

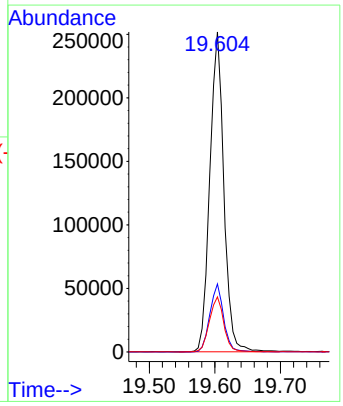
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

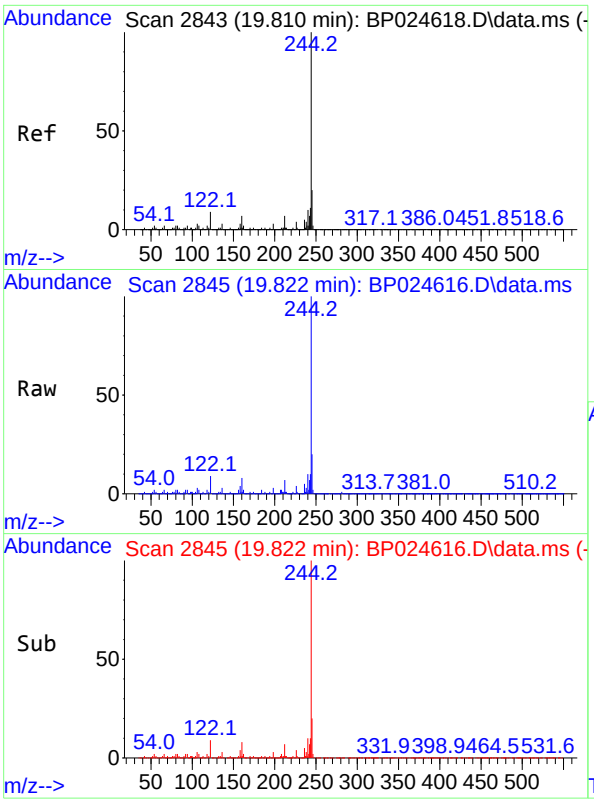


#78
Pyrene
Concen: 9.48 ng
RT: 19.604 min Scan# 2808
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:202 Resp: 374573

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	17.2	13.9	20.9

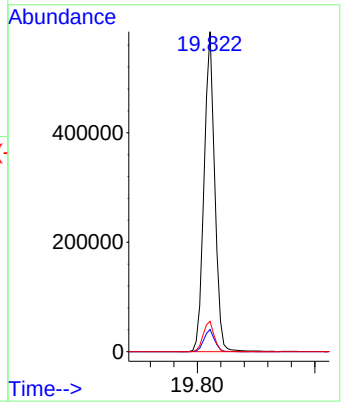




#79
Terphenyl-d14
Concen: 19.09 ng
RT: 19.822 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:244 Resp: 73368

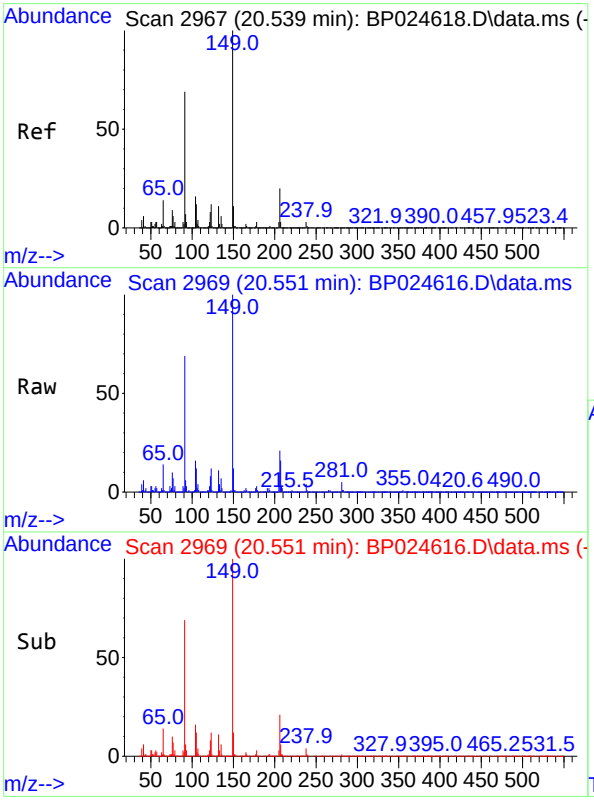
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	9.5	7.4	11.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

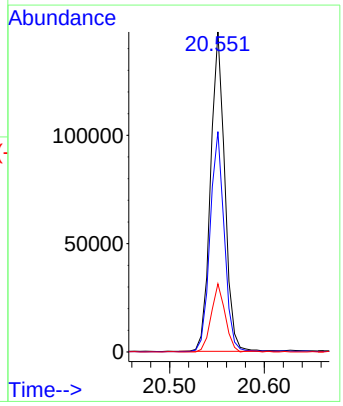
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

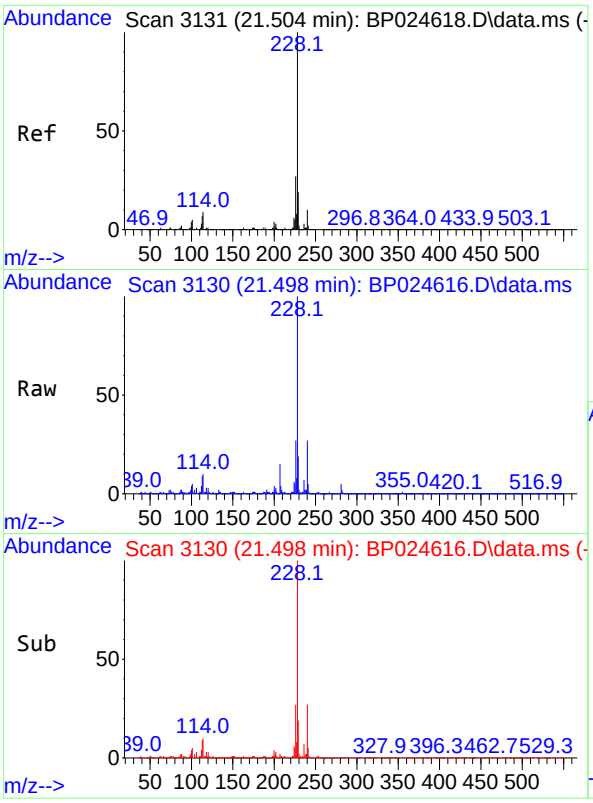


#80
Butylbenzylphthalate
Concen: 8.73 ng
RT: 20.551 min Scan# 2969
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:149 Resp: 153275

Ion	Ratio	Lower	Upper
149	100		
91	68.8	55.4	83.0
206	21.3	16.2	24.2

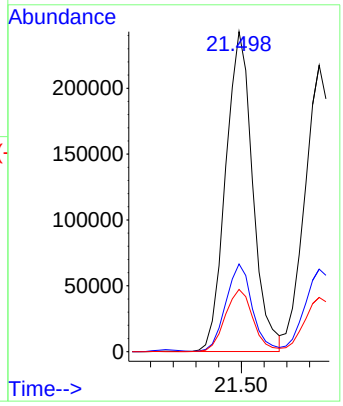




#81
Benzo(a)anthracene
Concen: 9.70 ng
RT: 21.498 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:228 Resp: 40132

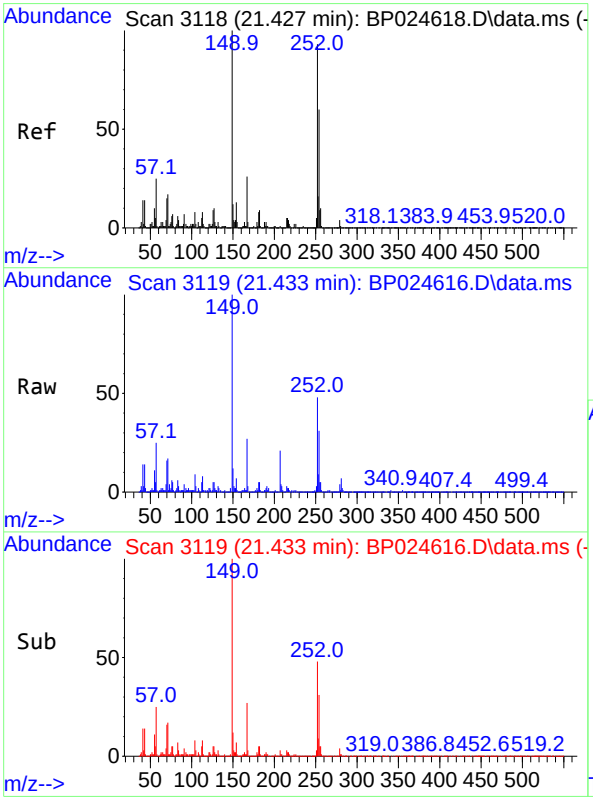
Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.4	32.0
229	19.5	15.5	23.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

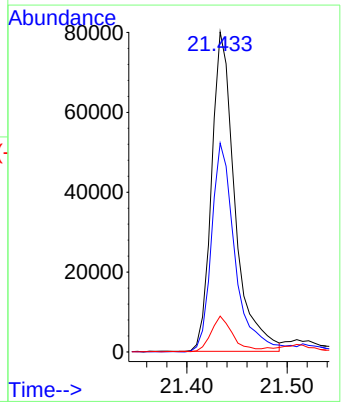
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

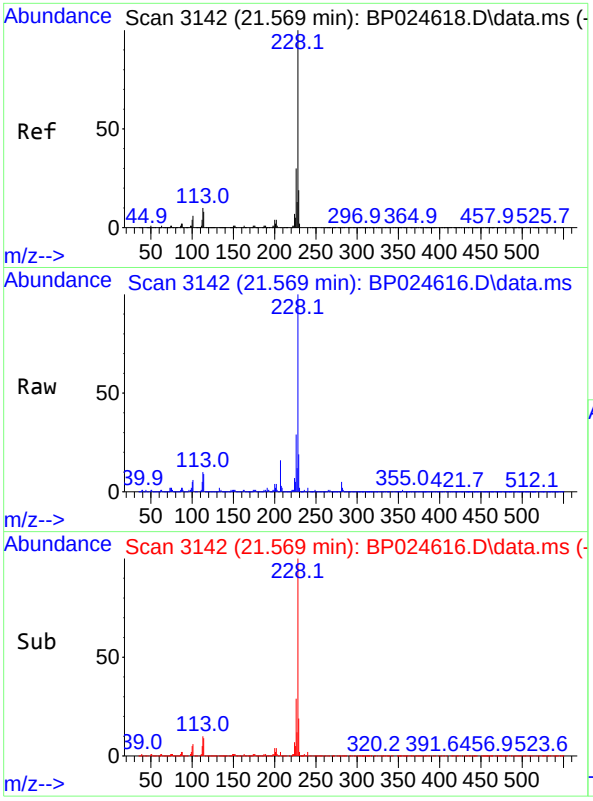


#82
3,3'-Dichlorobenzidine
Concen: 8.41 ng
RT: 21.433 min Scan# 3119
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:252 Resp: 129324

Ion	Ratio	Lower	Upper
252	100		
254	65.2	51.8	77.6
126	11.2	7.7	11.5

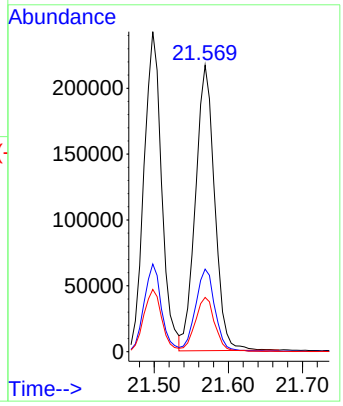




#83
Chrysene
Concen: 9.91 ng
RT: 21.569 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:228 Resp: 38884

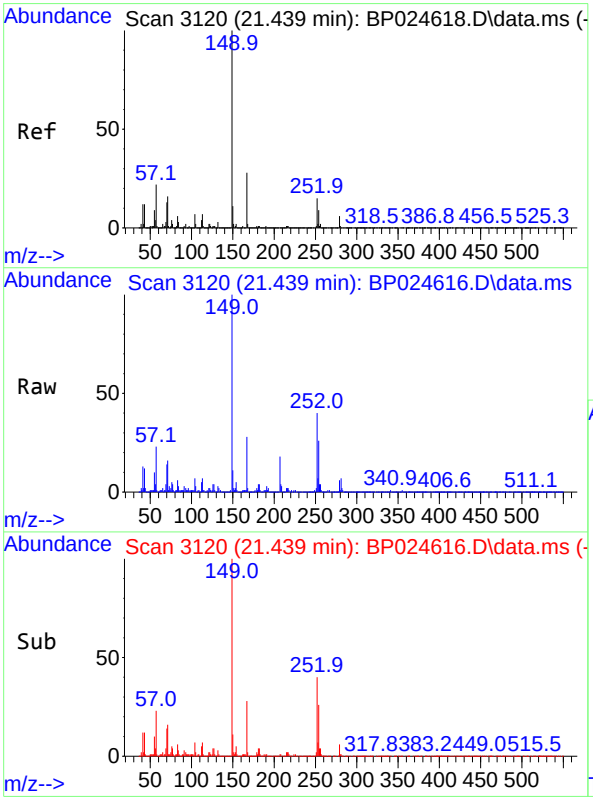
Ion	Ratio	Lower	Upper
228	100		
226	28.8	23.9	35.9
229	19.0	15.5	23.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

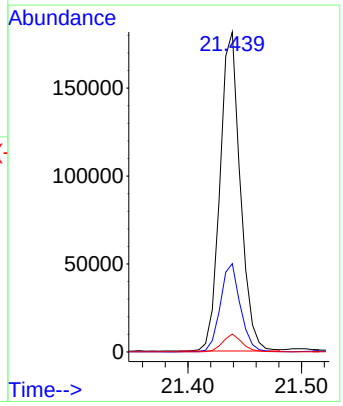
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

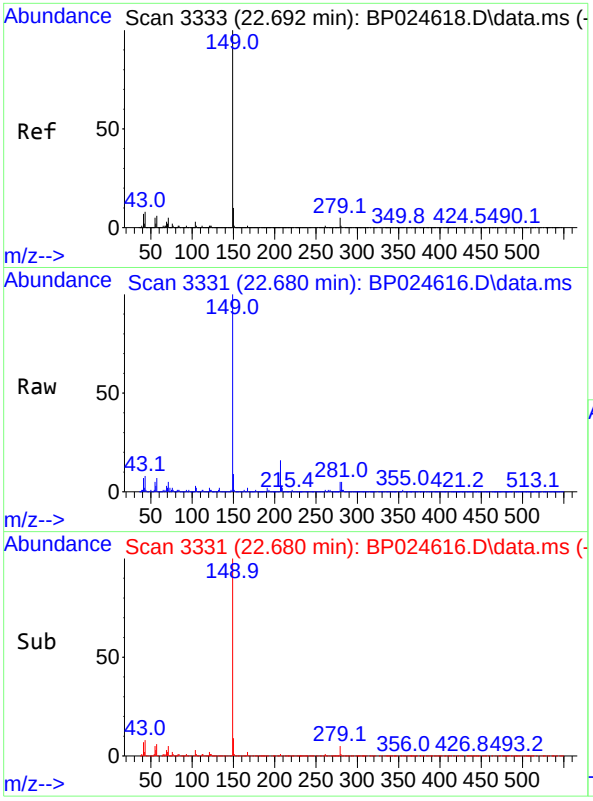


#84
Bis(2-ethylhexyl)phthalate
Concen: 8.72 ng
RT: 21.439 min Scan# 3120
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:149 Resp: 225047

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.1	33.1
279	5.6	4.6	6.8





#85
Di-n-octyl phthalate
Concen: 8.72 ng
RT: 22.680 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

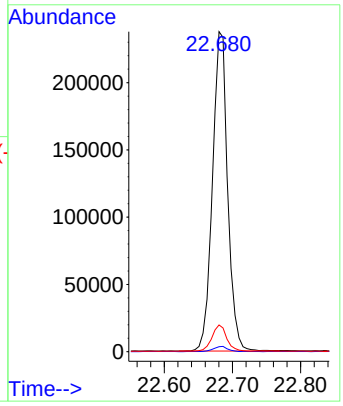
Tgt Ion:149 Resp: 36793

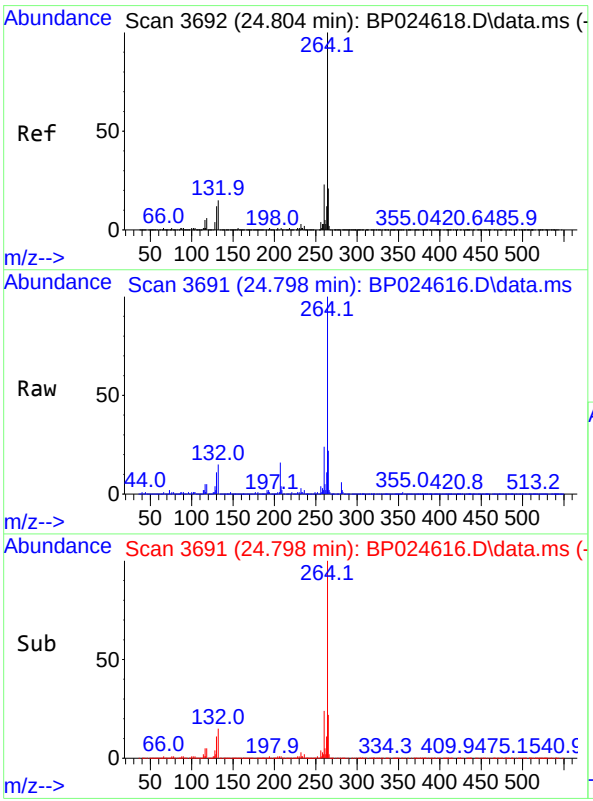
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	8.0	6.3	9.5

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

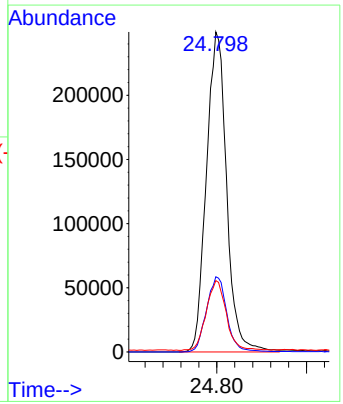


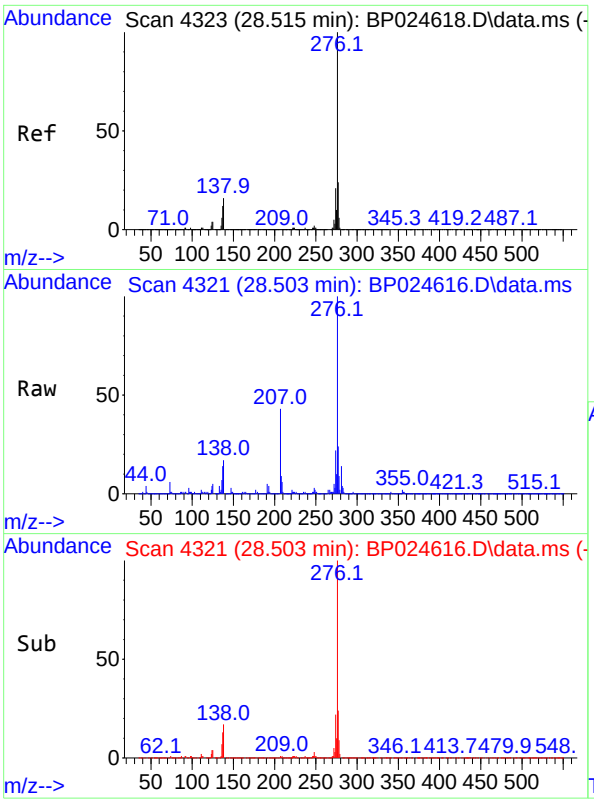


#86
Perylene-d12
Concen: 20.00 ng
RT: 24.798 min Scan# 3691
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:264 Resp: 780142

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.7	28.1
265	22.3	17.0	25.6

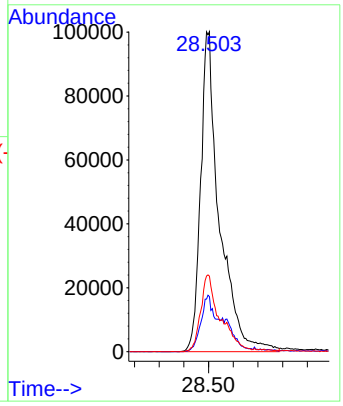




#87
Indeno(1,2,3-cd)pyrene
Concen: 9.29 ng
RT: 28.503 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:276 Resp: 52926

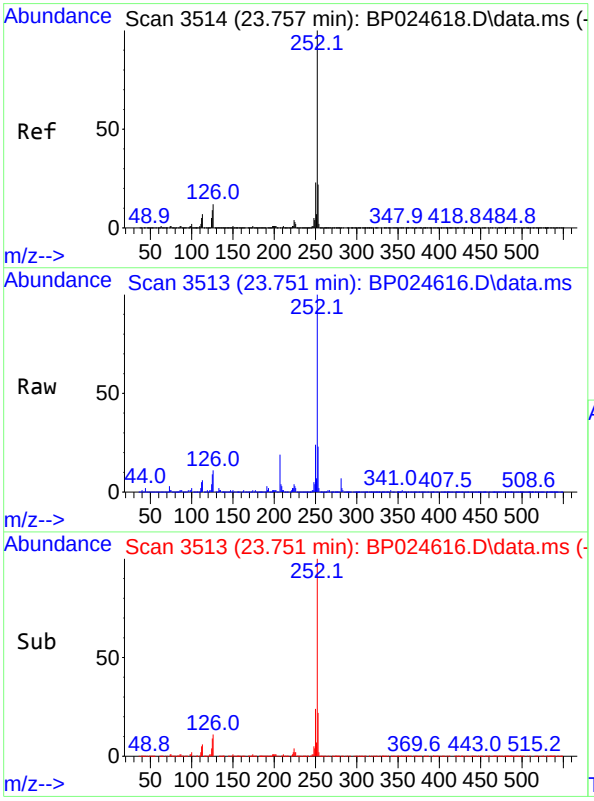
Ion	Ratio	Lower	Upper
276	100		
138	15.5	11.2	16.8
277	24.8	15.7	23.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

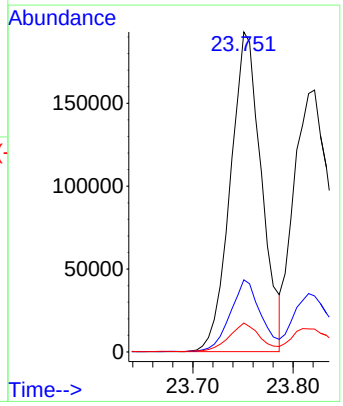
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

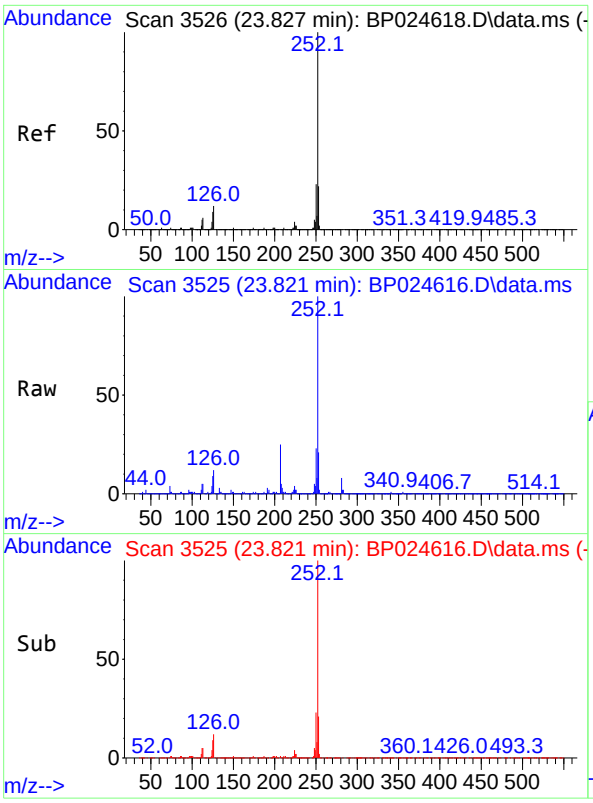


#88
Benzo(b)fluoranthene
Concen: 9.35 ng
RT: 23.751 min Scan# 3513
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:252 Resp: 417343

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.7	26.5
125	9.1	7.5	11.3

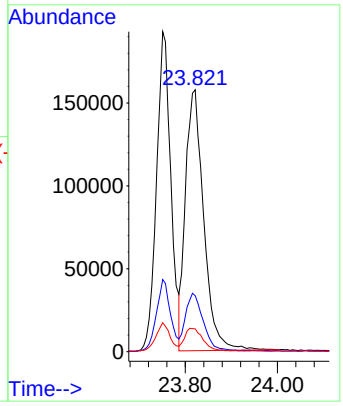




#89
Benzo(k)fluoranthene
Concen: 9.38 ng
RT: 23.821 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:252 Resp: 43157

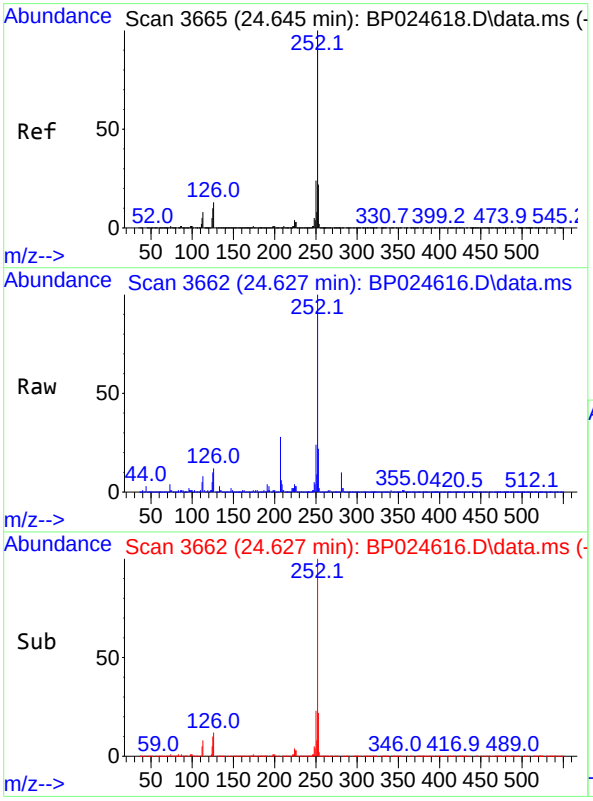
Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.6	26.4
125	8.7	7.0	10.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations
APPROVED

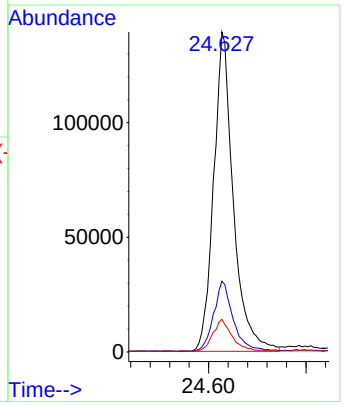
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

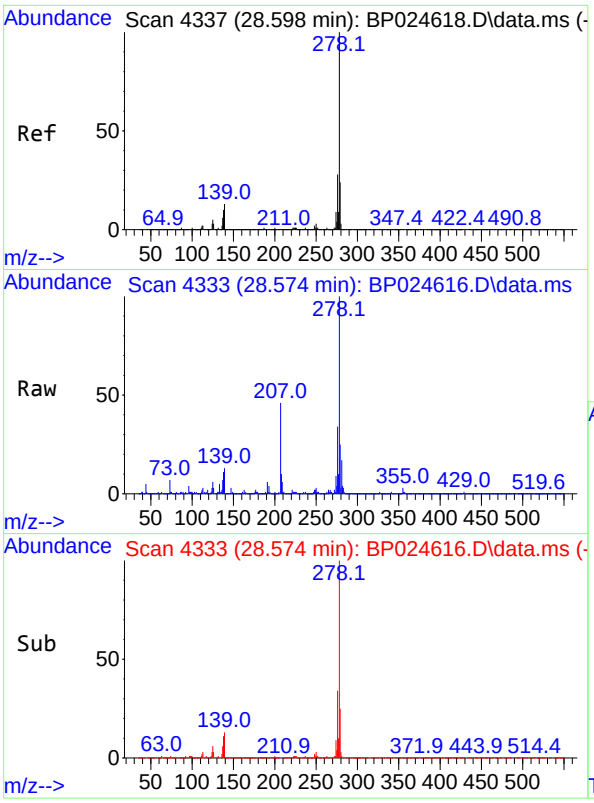


#90
Benzo(a)pyrene
Concen: 9.10 ng
RT: 24.627 min Scan# 3662
Delta R.T. -0.018 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:252 Resp: 390288

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.2	8.1	12.1

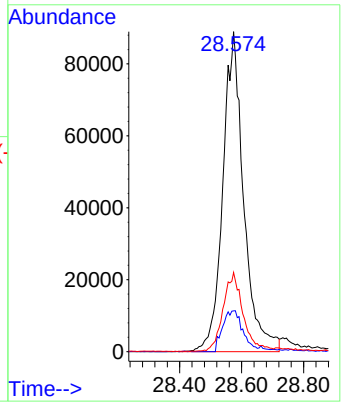




#91
Dibenzo(a,h)anthracene
Concen: 8.97 ng
RT: 28.574 min Scan# 4
Delta R.T. -0.024 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:278 Resp: 41576

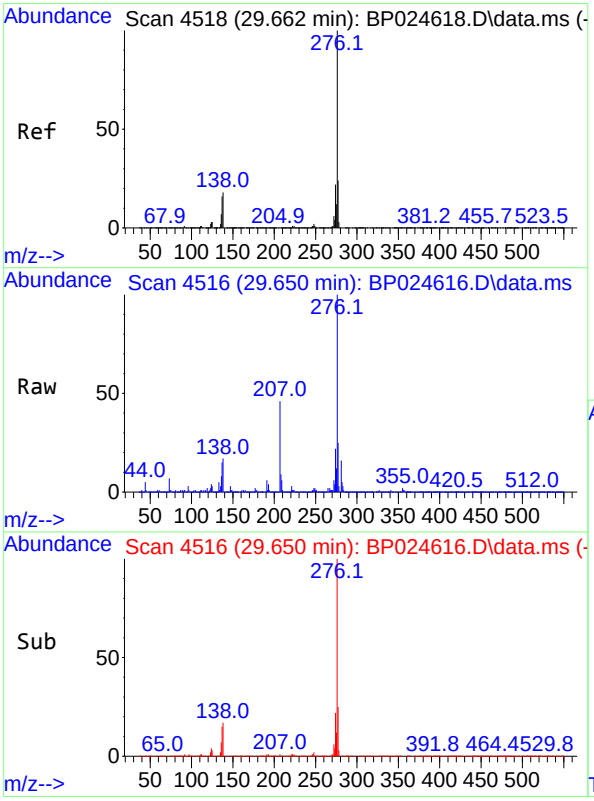
Ion	Ratio	Lower	Upper
278	100		
139	12.7	10.2	15.4
279	24.7	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

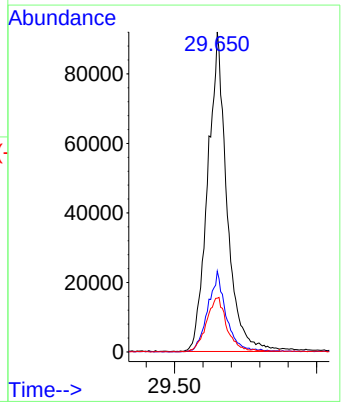
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025



#92
Benzo(g,h,i)perylene
Concen: 9.37 ng
RT: 29.650 min Scan# 4516
Delta R.T. -0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:276 Resp: 431559

Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.0	28.4
138	16.8	14.4	21.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024617.D
Acq On : 13 May 2025 12:43
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:05:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.664	152	112650	20.00	ng		0.00
21) Naphthalene-d8	10.434	136	488721	20.00	ng		0.00
39) Acenaphthene-d10	14.299	164	323928	20.00	ng		0.00
64) Phenanthrene-d10	17.087	188	644367	20.00	ng		-0.01
76) Chrysene-d12	21.522	240	745224	20.00	ng		0.00
86) Perylene-d12	24.792	264	850264	20.00	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.287	112	261821	39.75	ng		0.00
7) Phenol-d6	6.858	99	334811	39.83	ng		0.00
23) Nitrobenzene-d5	8.811	82	391739	40.50	ng		0.00
42) 2,4,6-Tribromophenol	15.810	330	217092	39.53	ng		0.00
45) 2-Fluorobiphenyl	12.904	172	1006150	40.69	ng		0.00
79) Terphenyl-d14	19.810	244	1736879	39.96	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.229	88	60251	19.48	ng		98
3) Pyridine	3.628	79	135451	19.75	ng		99
4) n-Nitrosodimethylamine	3.540	42	59324	19.59	ng		99
6) Aniline	7.005	93	217646	20.05	ng		100
8) 2-Chlorophenol	7.240	128	147726	19.76	ng		99
9) Benzaldehyde	6.822	77	117823m	21.69	ng		
10) Phenol	6.881	94	171949	19.82	ng		99
11) bis(2-Chloroethyl)ether	7.099	93	141599	19.86	ng		99
12) 1,3-Dichlorobenzene	7.552	146	171270	19.91	ng		99
13) 1,4-Dichlorobenzene	7.699	146	171756	19.85	ng		98
14) 1,2-Dichlorobenzene	8.011	146	168795	20.02	ng		99
15) Benzyl Alcohol	7.911	79	127076	19.89	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.187	45	171274	20.06	ng		100
17) 2-Methylphenol	8.111	107	124506	20.01	ng		99
18) Hexachloroethane	8.728	117	65527	19.76	ng		97
19) n-Nitroso-di-n-propyla...	8.458	70	122386	21.05	ng		98
20) 3+4-Methylphenols	8.440	107	169264	20.00	ng		97
22) Acetophenone	8.481	105	249692	20.45	ng	#	100
24) Nitrobenzene	8.858	77	173686	20.40	ng		99
25) Isophorone	9.375	82	339697	20.25	ng		100
26) 2-Nitrophenol	9.563	139	82278	19.73	ng		98
27) 2,4-Dimethylphenol	9.622	122	146819	19.96	ng		97
28) bis(2-Chloroethoxy)met...	9.852	93	200872	20.04	ng		99
29) 2,4-Dichlorophenol	10.099	162	141785	19.90	ng		98
30) 1,2,4-Trichlorobenzene	10.299	180	159998	19.92	ng		95
31) Naphthalene	10.481	128	512888	20.25	ng		100
32) Benzoic acid	9.746	122	71538m	18.73	ng		
33) 4-Chloroaniline	10.605	127	205433	20.10	ng		99
34) Hexachlorobutadiene	10.763	225	103364	19.87	ng		99
35) Caprolactam	11.381	113	50721	19.68	ng		99
36) 4-Chloro-3-methylphenol	11.734	107	174840	20.12	ng		99
37) 2-Methylnaphthalene	12.093	142	327447	19.97	ng		99
38) 1-Methylnaphthalene	12.316	142	352091	20.07	ng		100
40) 1,2,4,5-Tetrachloroben...	12.469	216	185982	19.77	ng		99
41) Hexachlorocyclopentadiene	12.440	237	113499	19.90	ng		98
43) 2,4,6-Trichlorophenol	12.722	196	121520	19.95	ng		100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024617.D
Acq On : 13 May 2025 12:43
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:05:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.799	196	135306	19.95	ng	98
46) 1,1'-Biphenyl	13.116	154	483352	20.19	ng	100
47) 2-Chloronaphthalene	13.163	162	366247	20.06	ng	100
48) 2-Nitroaniline	13.375	65	107062	19.81	ng	98
49) Acenaphthylene	14.016	152	621997	20.36	ng	100
50) Dimethylphthalate	13.751	163	491623	19.91	ng	99
51) 2,6-Dinitrotoluene	13.869	165	105479	20.23	ng	97
52) Acenaphthene	14.357	154	354519	20.19	ng	99
53) 3-Nitroaniline	14.210	138	106527	20.01	ng	98
54) 2,4-Dinitrophenol	14.428	184	46351	19.37	ng	91
55) Dibenzofuran	14.698	168	563719	20.12	ng	99
56) 4-Nitrophenol	14.551	139	71975	19.02	ng	93
57) 2,4-Dinitrotoluene	14.675	165	147676	20.09	ng	99
58) Fluorene	15.357	166	456792	20.00	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.934	232	123265	19.59	ng	99
60) Diethylphthalate	15.128	149	497916	19.95	ng	99
61) 4-Chlorophenyl-phenyle...	15.351	204	226790	19.91	ng	98
62) 4-Nitroaniline	15.393	138	105617	20.37	ng	99
63) Azobenzene	15.651	77	439183	20.57	ng	99
65) 4,6-Dinitro-2-methylph...	15.451	198	77131	18.53	ng	96
66) n-Nitrosodiphenylamine	15.575	169	404085	20.42	ng	99
67) 4-Bromophenyl-phenylether	16.263	248	152393	20.07	ng	97
68) Hexachlorobenzene	16.381	284	192290	19.93	ng	99
69) Atrazine	16.545	200	146468	20.19	ng	99
70) Pentachlorophenol	16.740	266	104916	19.36	ng	98
71) Phenanthrene	17.128	178	724922	20.24	ng	100
72) Anthracene	17.222	178	735787	20.42	ng	100
73) Carbazole	17.510	167	669730	20.53	ng	99
74) Di-n-butylphthalate	18.092	149	858522	20.46	ng	100
75) Fluoranthene	19.210	202	846684	20.22	ng	100
77) Benzidine	19.422	184	404890	19.79	ng	99
78) Pyrene	19.592	202	892037	19.98	ng	99
80) Butylbenzylphthalate	20.539	149	400050	20.14	ng	97
81) Benzo(a)anthracene	21.498	228	933614	19.95	ng	99
82) 3,3'-Dichlorobenzidine	21.428	252	353000	20.31	ng	100
83) Chrysene	21.569	228	883001	19.91	ng	99
84) Bis(2-ethylhexyl)phtha...	21.439	149	597012	20.45	ng	98
85) Di-n-octyl phthalate	22.686	149	947571	19.85	ng	99
87) Indeno(1,2,3-cd)pyrene	28.486	276	1230125m	19.81	ng	
88) Benzo(b)fluoranthene	23.757	252	979873	20.13	ng	99
89) Benzo(k)fluoranthene	23.822	252	1005349	20.05	ng	100
90) Benzo(a)pyrene	24.627	252	945764	20.23	ng	100
91) Dibenzo(a,h)anthracene	28.568	278	1008288	19.97	ng	99
92) Benzo(g,h,i)perylene	29.627	276	991852	19.75	ng	99

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

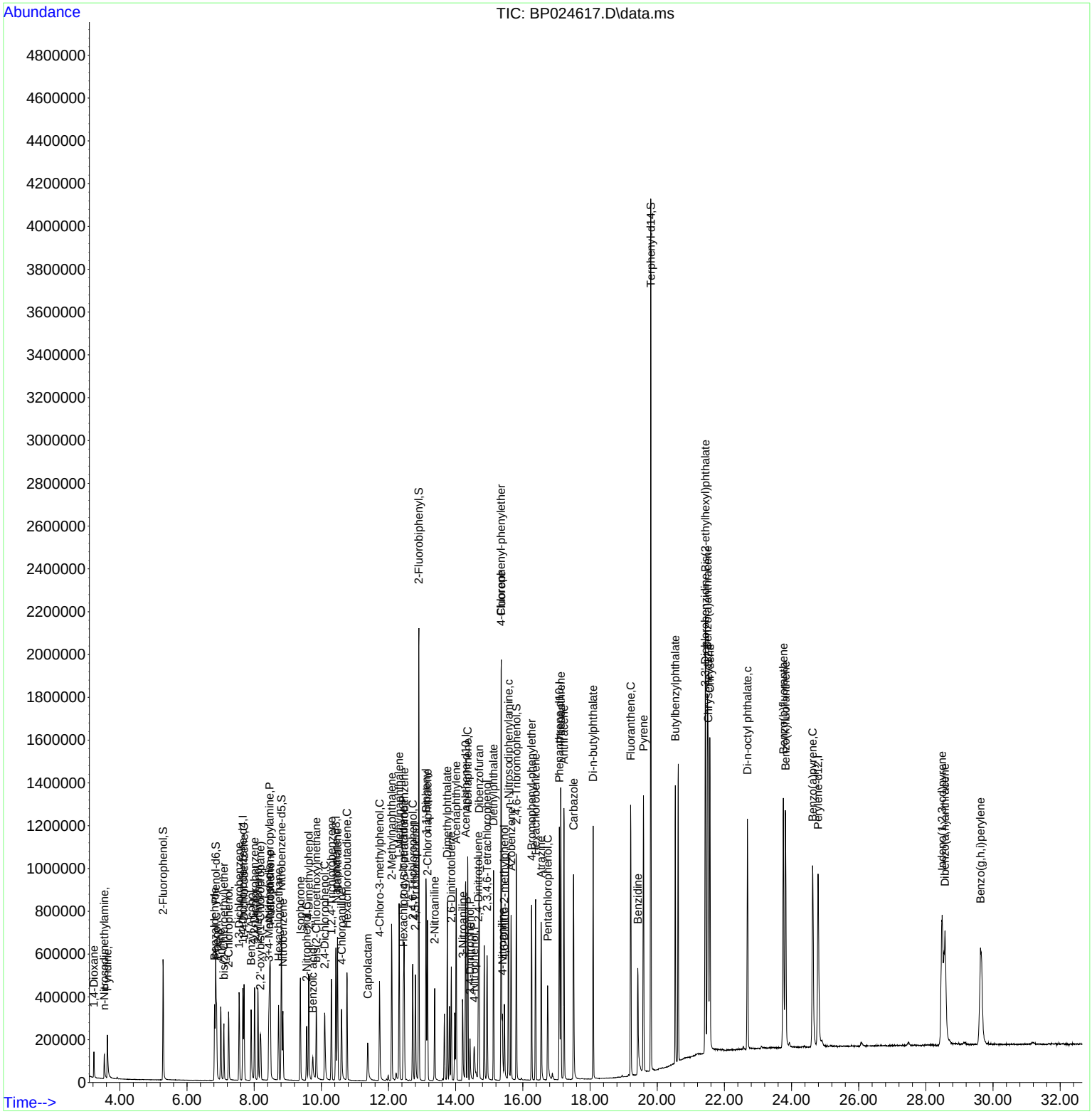
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024617.D
Acq On : 13 May 2025 12:43
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

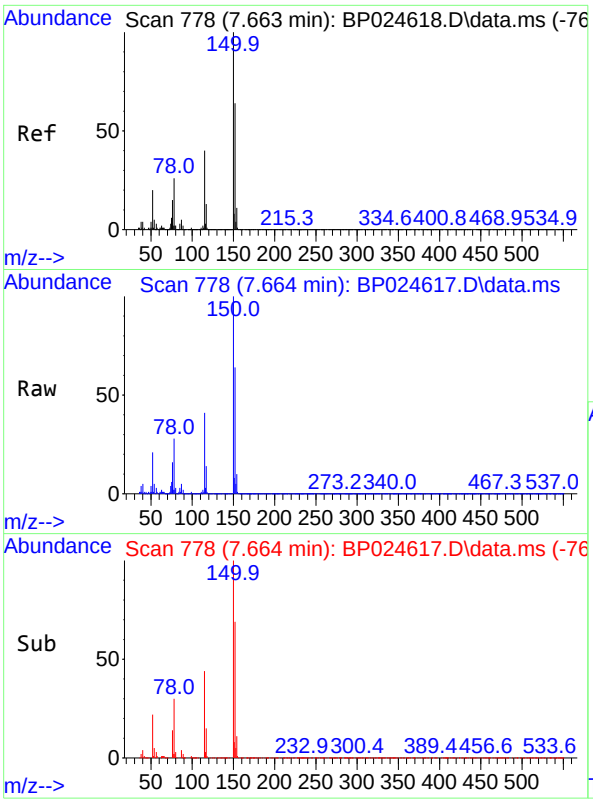
Quant Time: May 13 16:05:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

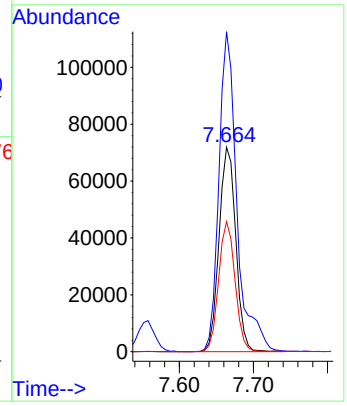




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.664 min Scan# 7
Delta R.T. 0.001 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:152 Resp: 11265

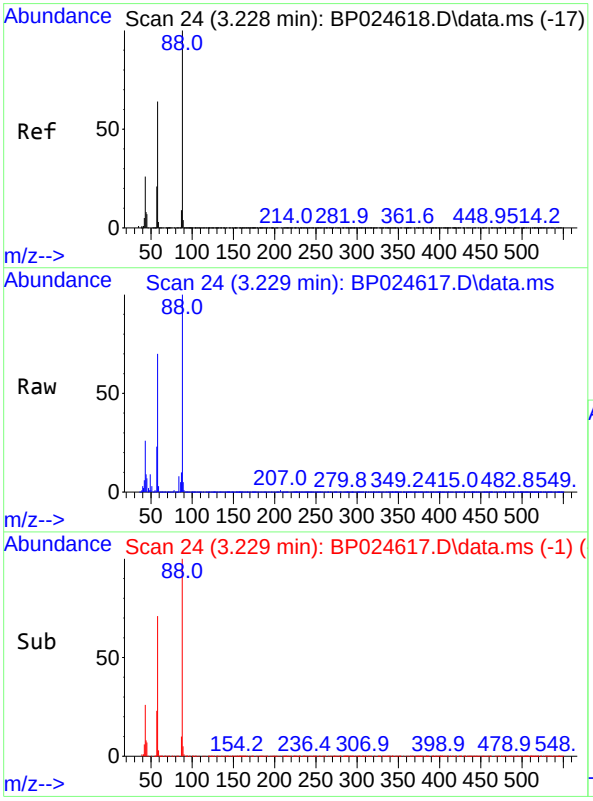
Ion	Ratio	Lower	Upper
152	100		
150	156.4	125.9	188.9
115	63.6	50.1	75.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

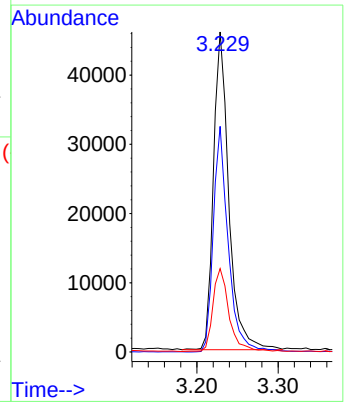
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

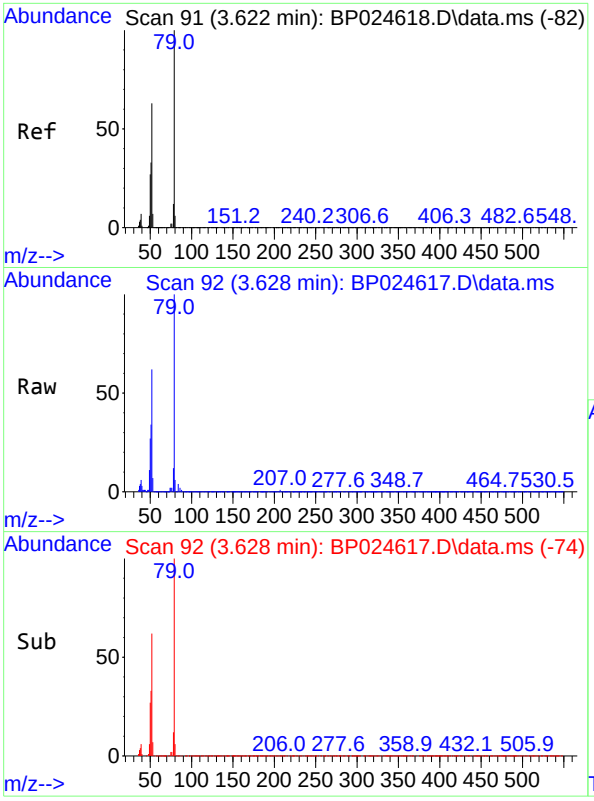


#2
1,4-Dioxane
Concen: 19.48 ng
RT: 3.229 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 88 Resp: 60251

Ion	Ratio	Lower	Upper
88	100		
58	69.2	54.0	81.0
43	27.3	21.4	32.0

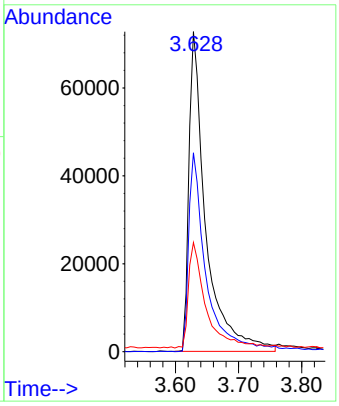




#3
Pyridine
Concen: 19.75 ng
RT: 3.628 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 79 Resp: 13545

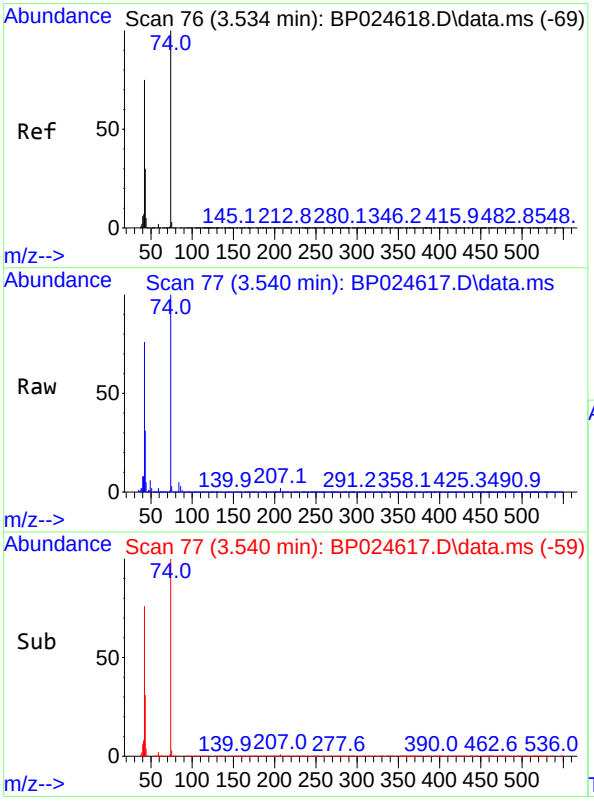
Ion	Ratio	Lower	Upper
79	100		
52	62.1	50.2	75.2
51	34.1	26.8	40.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

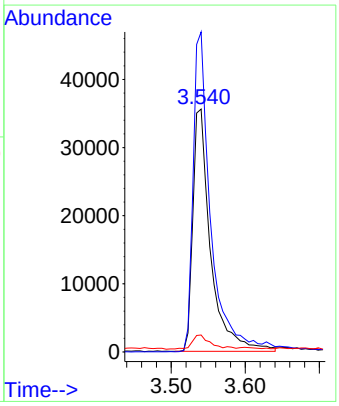
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

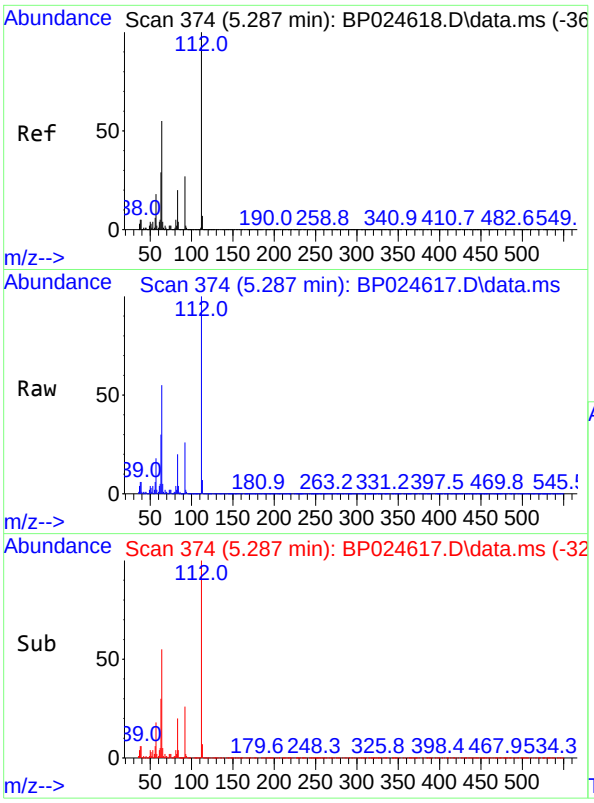


#4
n-Nitrosodimethylamine
Concen: 19.59 ng
RT: 3.540 min Scan# 77
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 42 Resp: 59324

Ion	Ratio	Lower	Upper
42	100		
74	131.7	106.2	159.2
44	7.0	5.4	8.2

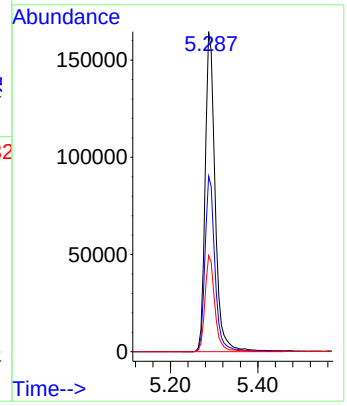




#5
2-Fluorophenol
Concen: 39.75 ng
RT: 5.287 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:112 Resp: 26182

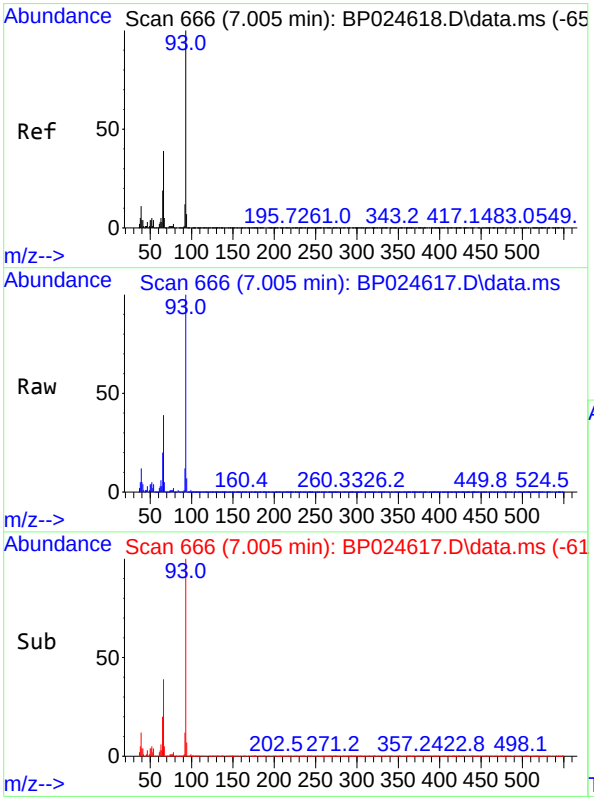
Ion	Ratio	Lower	Upper
112	100		
64	54.8	44.1	66.1
63	30.0	23.5	35.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

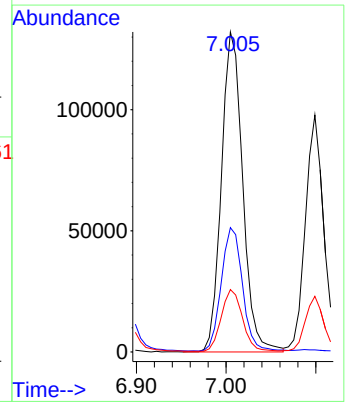
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

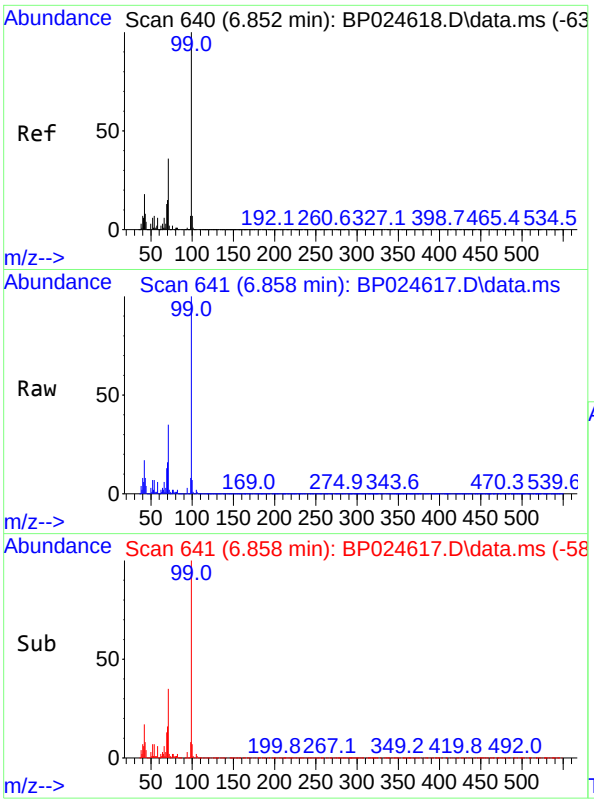


#6
Aniline
Concen: 20.05 ng
RT: 7.005 min Scan# 666
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 93 Resp: 217646

Ion	Ratio	Lower	Upper
93	100		
66	38.8	31.0	46.6
65	19.5	15.5	23.3

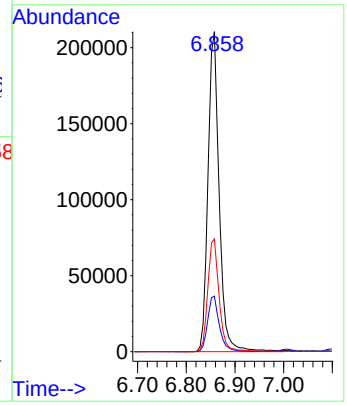




#7
Phenol-d6
Concen: 39.83 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 99 Resp: 33481

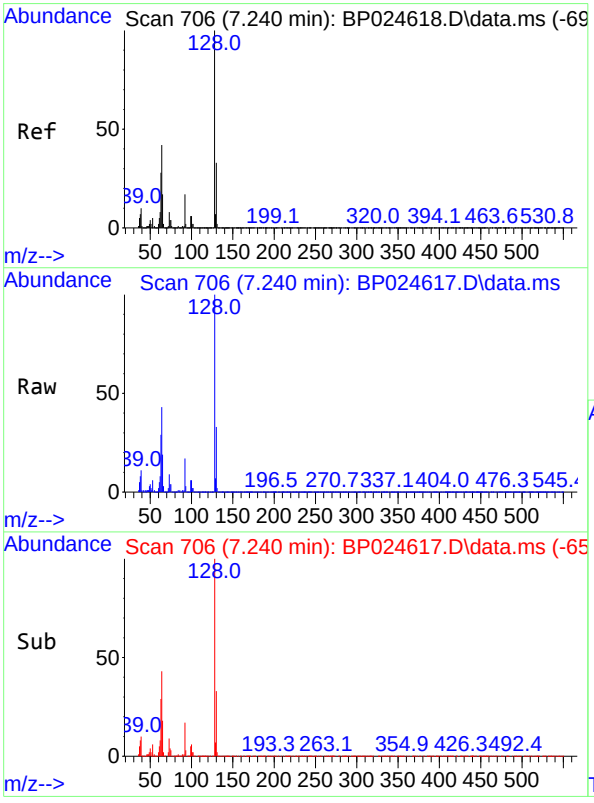
Ion	Ratio	Lower	Upper
99	100		
42	17.4	14.4	21.6
71	35.3	29.2	43.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

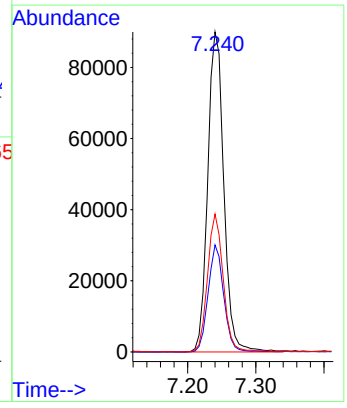
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

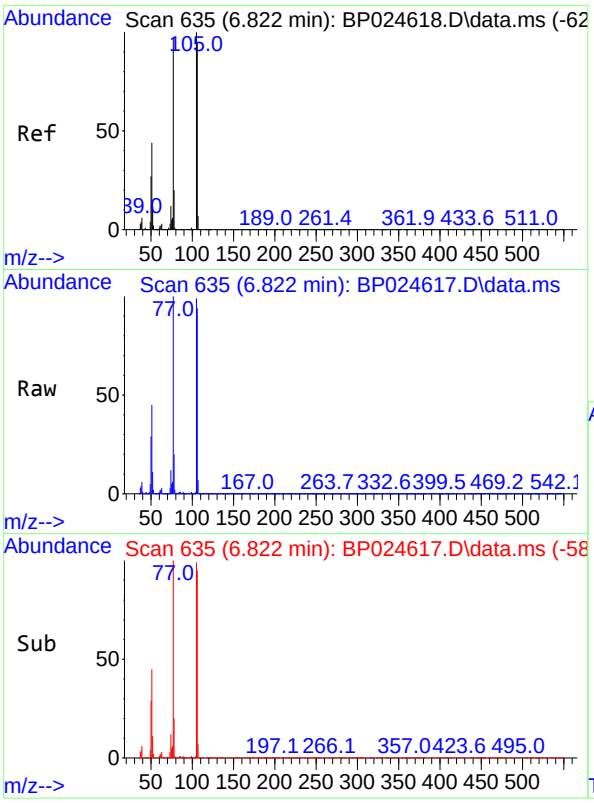


#8
2-Chlorophenol
Concen: 19.76 ng
RT: 7.240 min Scan# 706
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:128 Resp: 147726

Ion	Ratio	Lower	Upper
128	100		
130	33.5	13.0	53.0
64	43.1	22.3	62.3

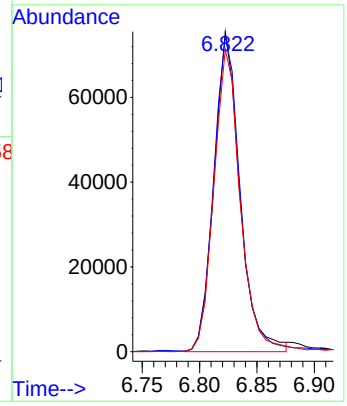




#9
Benzaldehyde
Concen: 21.69 ng m
RT: 6.822 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 77 Resp: 11782

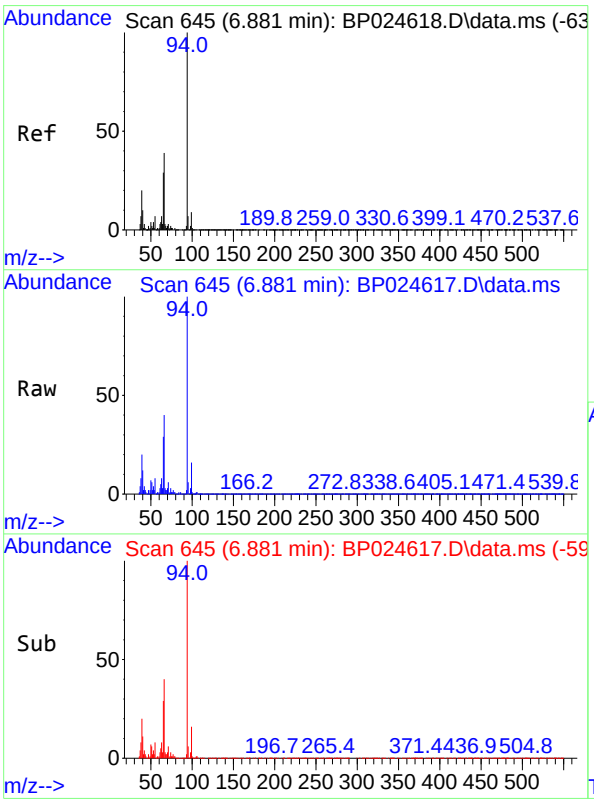
Ion	Ratio	Lower	Upper
77	100		
105	98.5	83.3	123.3
106	94.4	78.0	118.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

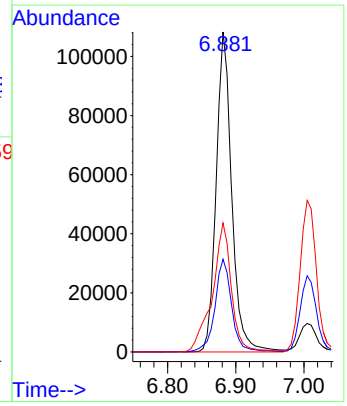
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

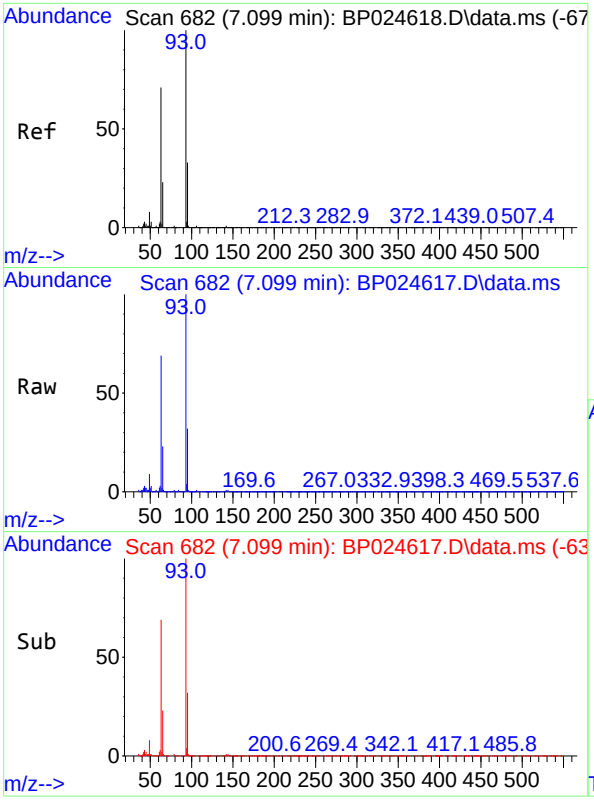


#10
Phenol
Concen: 19.82 ng
RT: 6.881 min Scan# 645
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 94 Resp: 171949

Ion	Ratio	Lower	Upper
94	100		
65	28.9	8.7	48.7
66	40.3	19.4	59.4

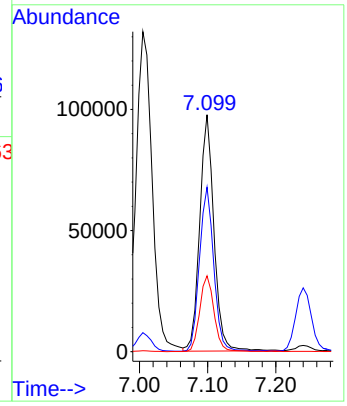




#11
bis(2-Chloroethyl)ether
Concen: 19.86 ng
RT: 7.099 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 93 Resp: 14159

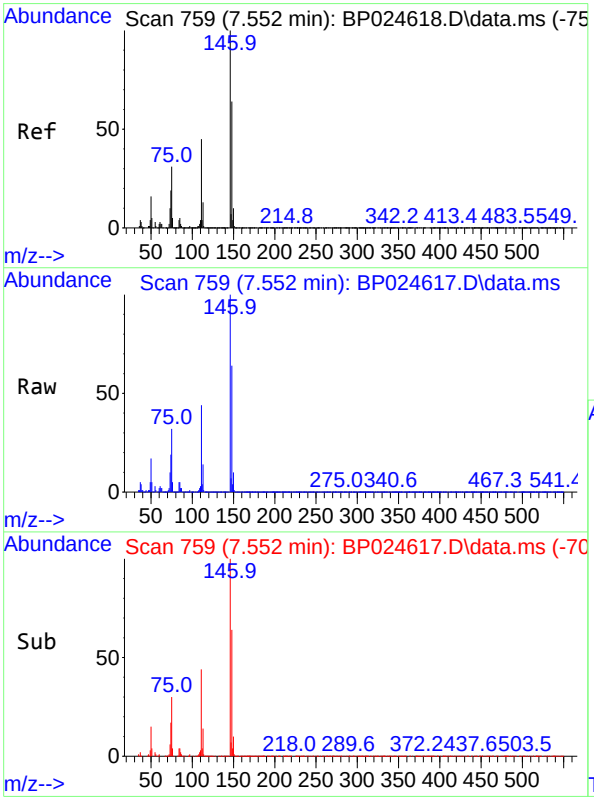
Ion	Ratio	Lower	Upper
93	100		
63	69.4	50.6	90.6
95	32.0	12.9	52.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

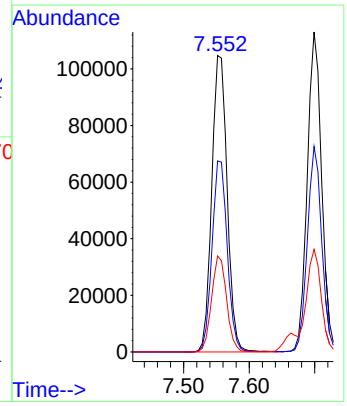
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

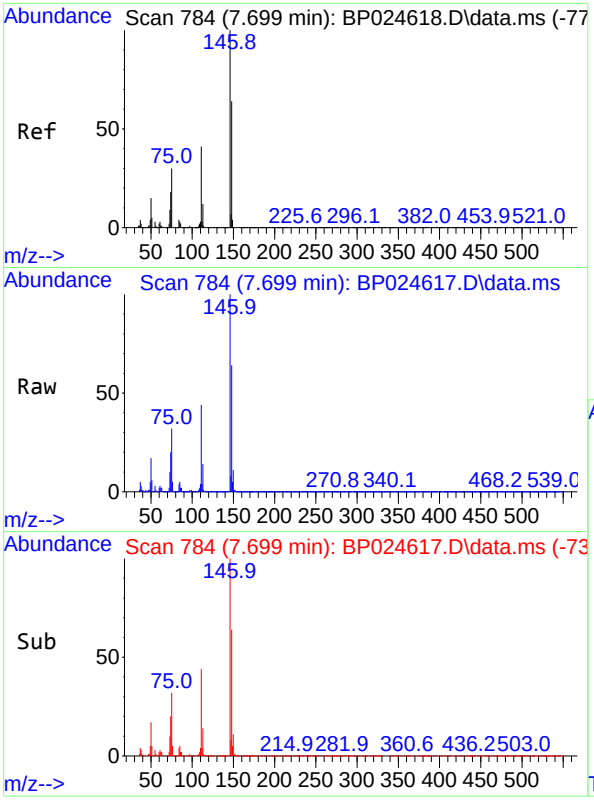


#12
1,3-Dichlorobenzene
Concen: 19.91 ng
RT: 7.552 min Scan# 759
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:146 Resp: 171270

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.4	77.2
75	32.4	25.2	37.8

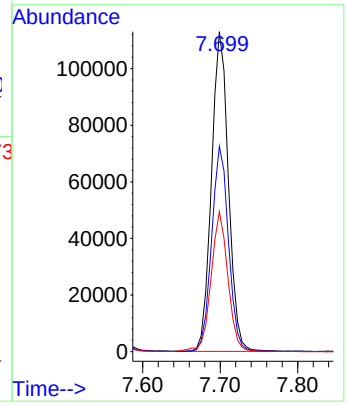




#13
1,4-Dichlorobenzene
Concen: 19.85 ng
RT: 7.699 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:146 Resp: 17175

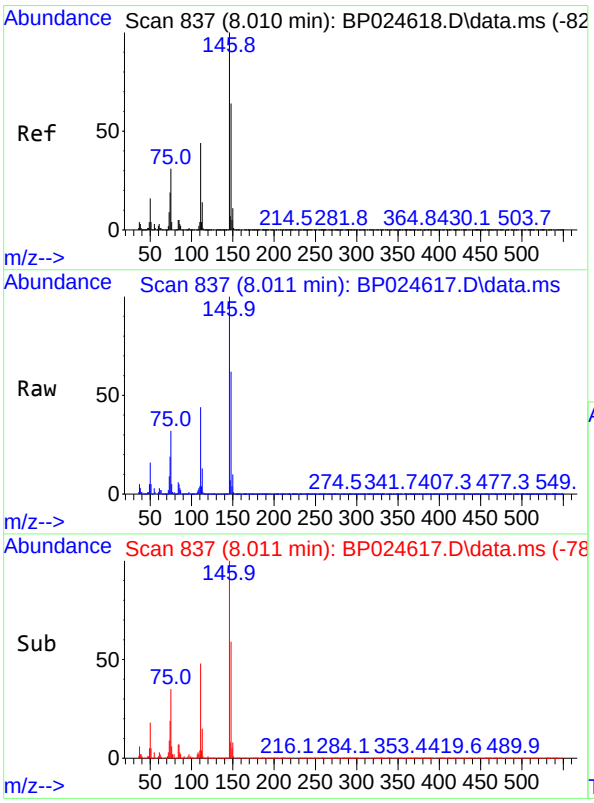
Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.6
111	43.7	33.0	49.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

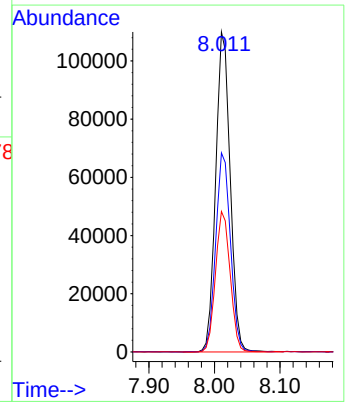
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

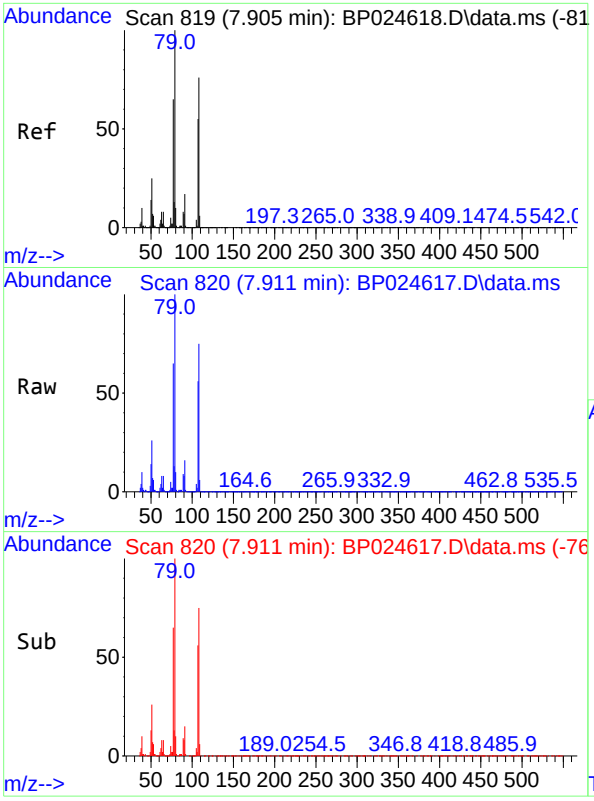


#14
1,2-Dichlorobenzene
Concen: 20.02 ng
RT: 8.011 min Scan# 837
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:146 Resp: 168795

Ion	Ratio	Lower	Upper
146	100		
148	62.2	51.0	76.4
111	43.9	35.2	52.8

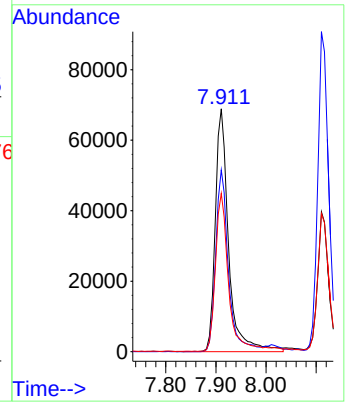




#15
Benzyl Alcohol
Concen: 19.89 ng
RT: 7.911 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 79 Resp: 12707

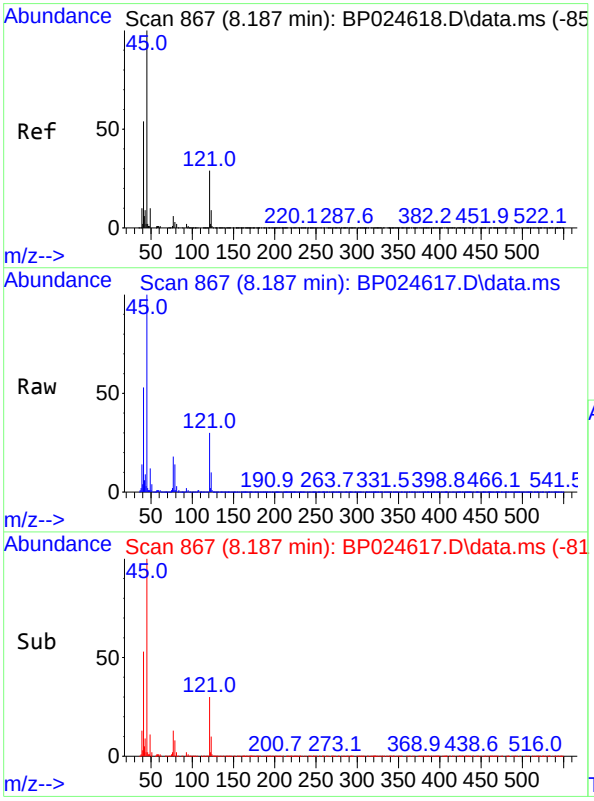
Ion	Ratio	Lower	Upper
79	100		
108	74.8	60.8	91.2
77	65.1	51.9	77.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

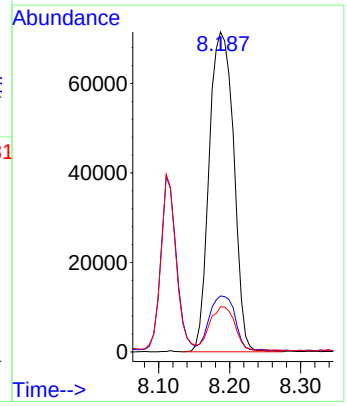
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

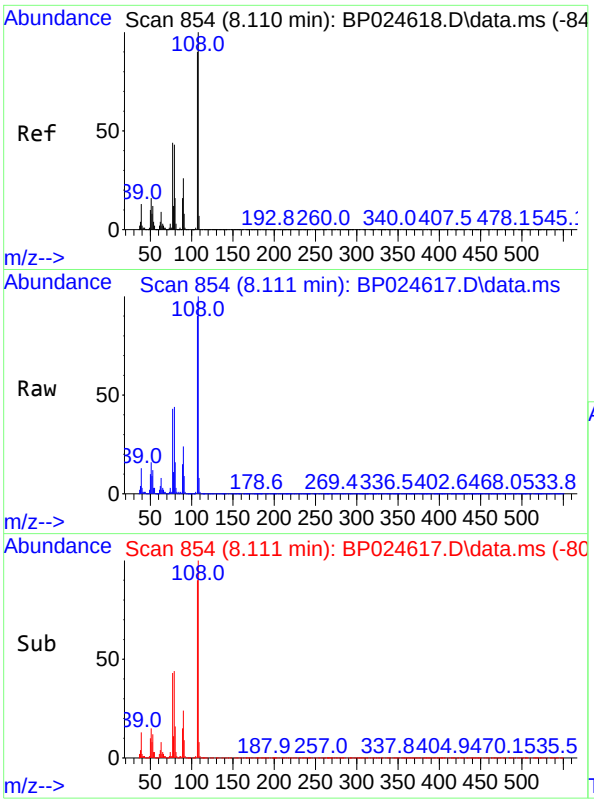


#16
2,2'-oxybis(1-Chloropropane)
Concen: 20.06 ng
RT: 8.187 min Scan# 867
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 45 Resp: 171274

Ion	Ratio	Lower	Upper
45	100		
77	17.5	0.0	37.7
79	14.1	0.0	34.0

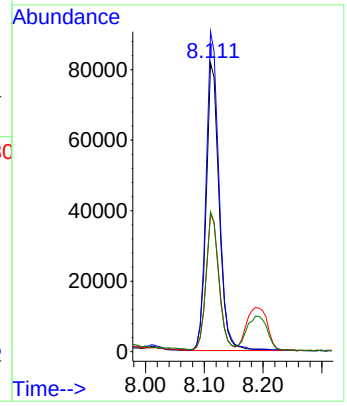




#17
2-Methylphenol
Concen: 20.01 ng
RT: 8.111 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:107 Resp: 12450

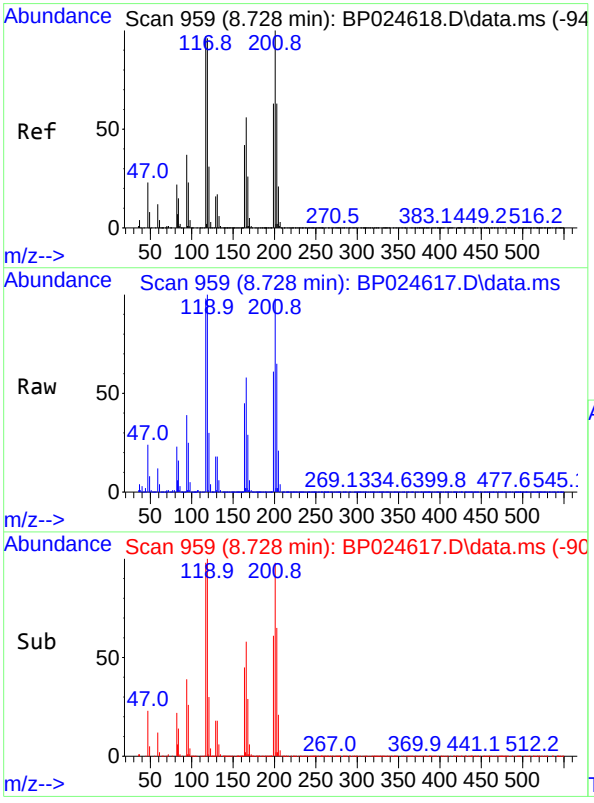
Ion	Ratio	Lower	Upper
107	100		
108	110.8	88.9	133.3
77	47.9	39.0	58.6
79	48.4	38.4	57.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

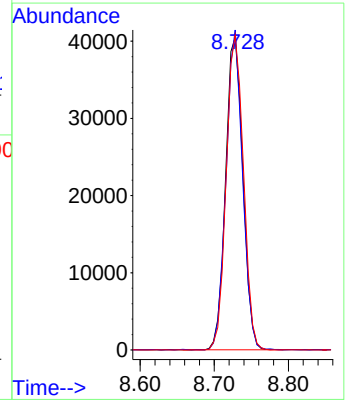
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

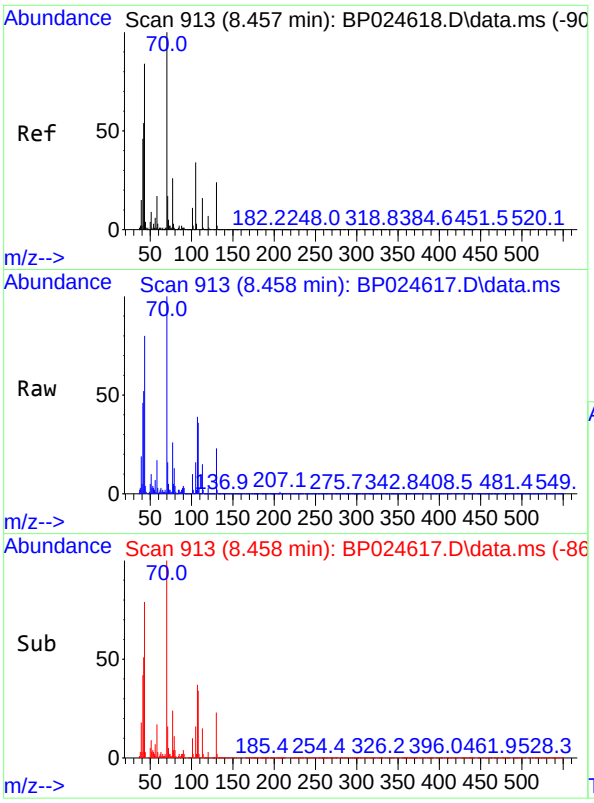


#18
Hexachloroethane
Concen: 19.76 ng
RT: 8.728 min Scan# 959
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:117 Resp: 65527

Ion	Ratio	Lower	Upper
117	100		
119	102.4	79.4	119.0
201	100.8	82.7	124.1

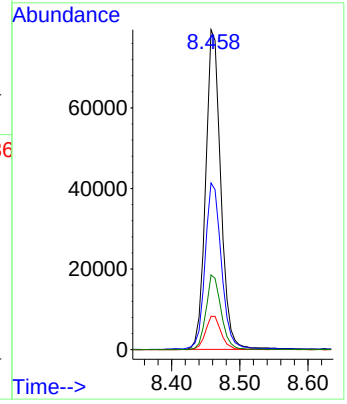




#19
n-Nitroso-di-n-propylamine
Concen: 21.05 ng
RT: 8.458 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 70 Resp: 12238

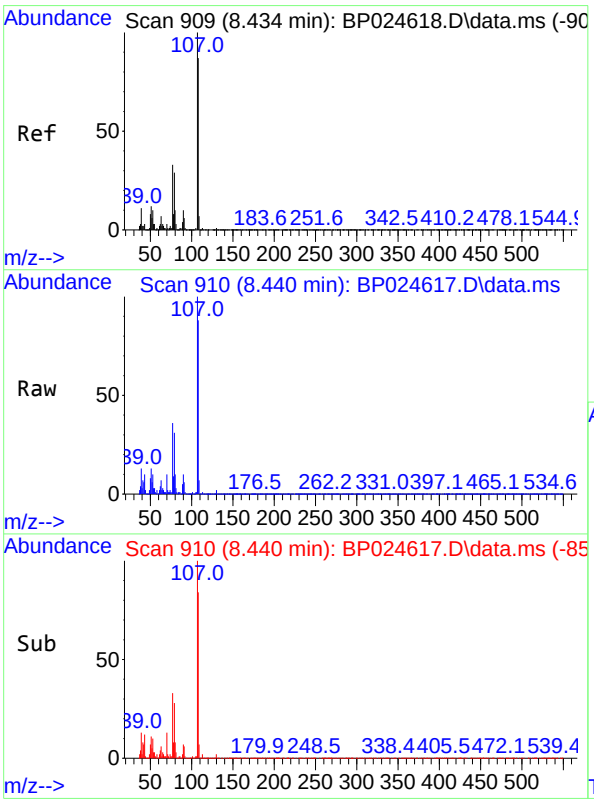
Ion	Ratio	Lower	Upper
70	100		
42	52.1	43.0	64.6
101	10.5	8.7	13.1
130	23.4	19.4	29.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

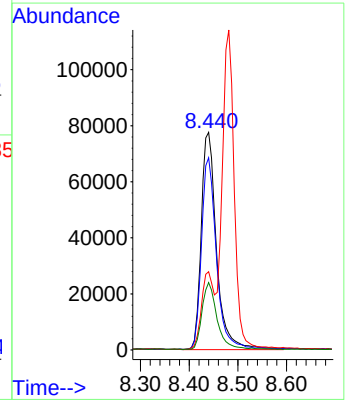
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

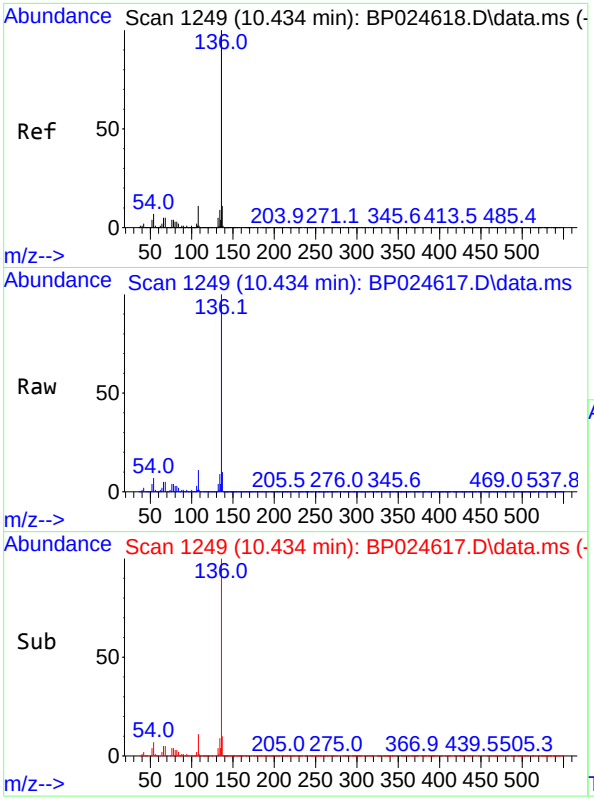


#20
3+4-Methylphenols
Concen: 20.00 ng
RT: 8.440 min Scan# 910
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:107 Resp: 169264

Ion	Ratio	Lower	Upper
107	100		
108	88.3	66.7	106.7
77	35.9	13.1	53.1
79	30.9	8.9	48.9

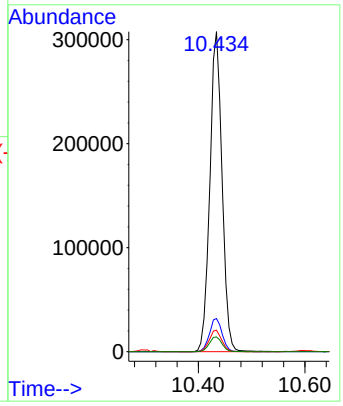




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:136 Resp: 48872

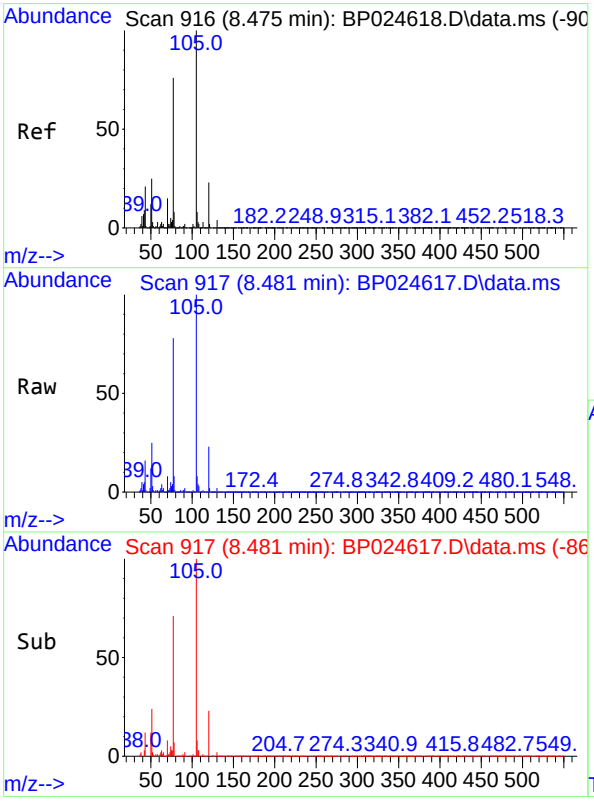
Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.8	13.2
54	6.7	5.5	8.3
68	4.6	4.2	6.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

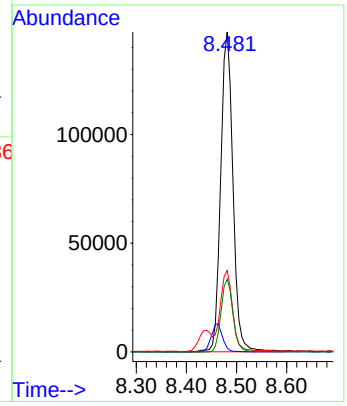
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

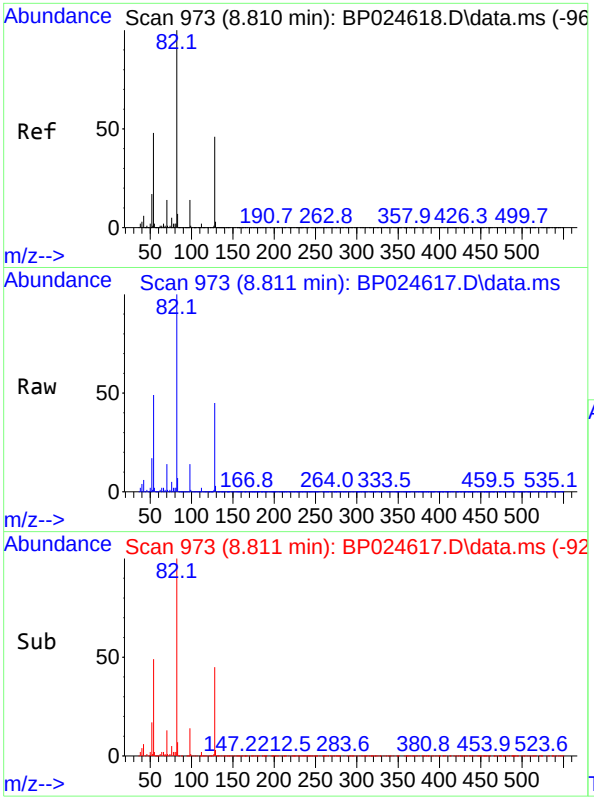


#22
Acetophenone
Concen: 20.45 ng
RT: 8.481 min Scan# 917
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:105 Resp: 249692

Ion	Ratio	Lower	Upper
105	100		
71	1.2	2.0	3.0#
51	25.5	20.4	30.6
120	22.7	18.1	27.1

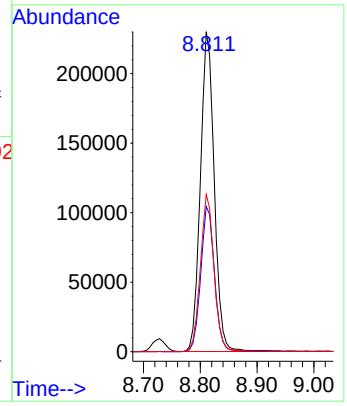




#23
Nitrobenzene-d5
Concen: 40.50 ng
RT: 8.811 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 82 Resp: 39173

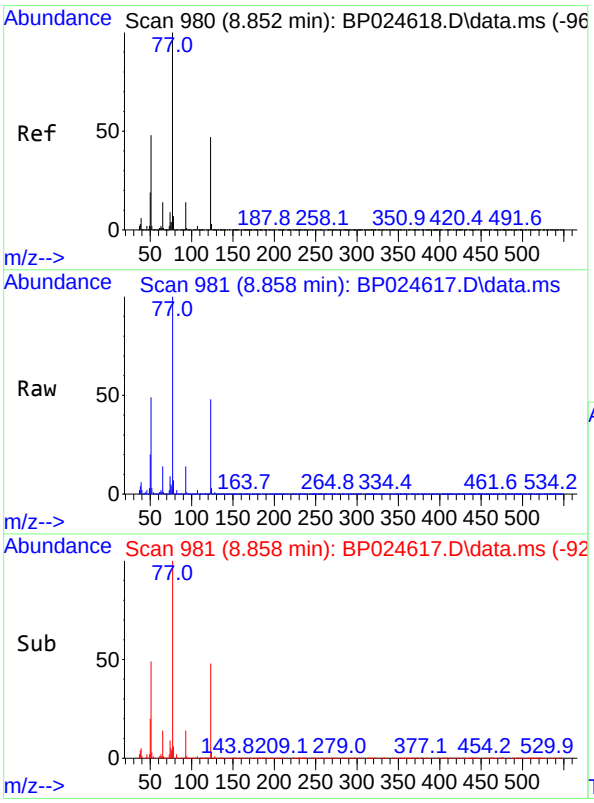
Ion	Ratio	Lower	Upper
82	100		
128	45.4	37.0	55.4
54	49.1	38.7	58.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

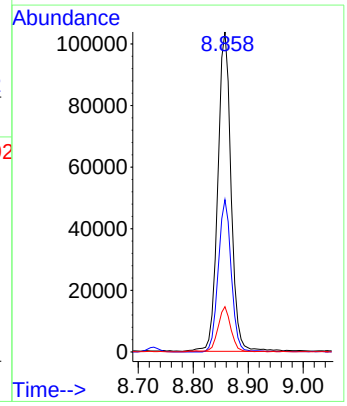
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

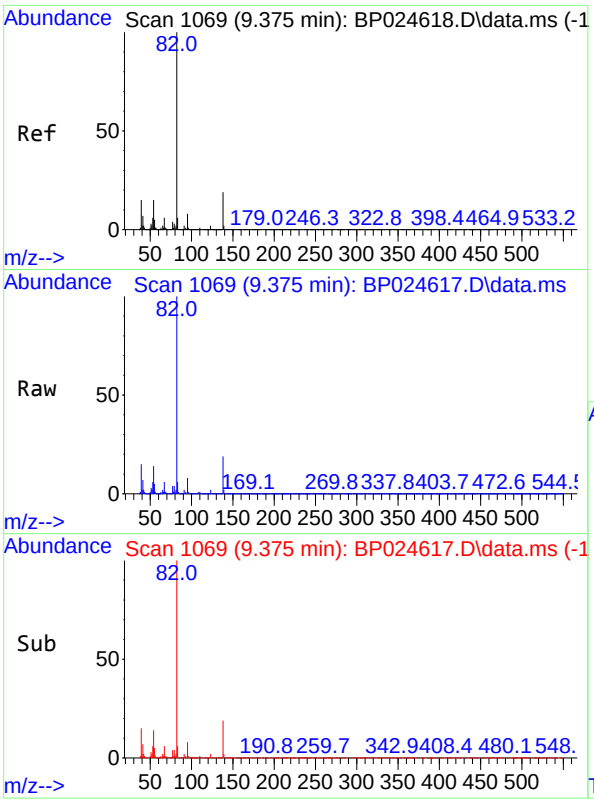


#24
Nitrobenzene
Concen: 20.40 ng
RT: 8.858 min Scan# 981
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 77 Resp: 173686

Ion	Ratio	Lower	Upper
77	100		
123	47.6	37.4	56.0
65	14.1	11.3	16.9

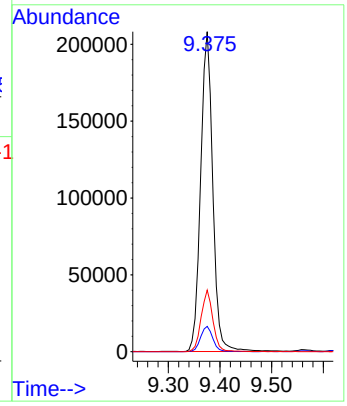




#25
Isophorone
Concen: 20.25 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 82 Resp: 33969

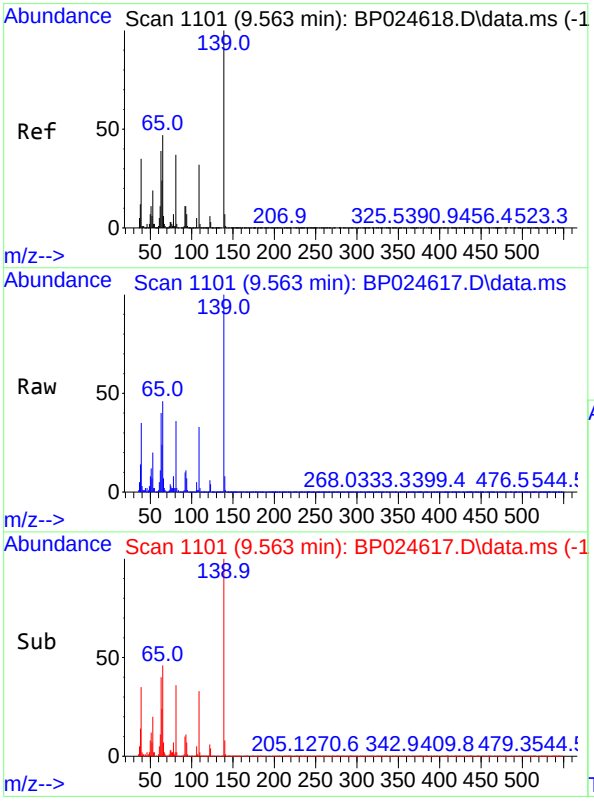
Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.3	9.5
138	19.3	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

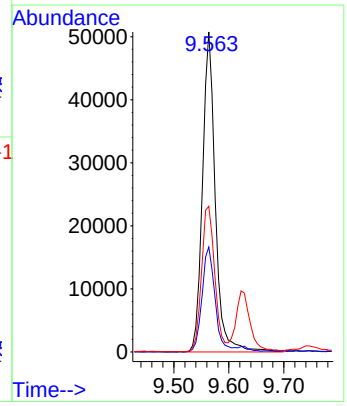
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

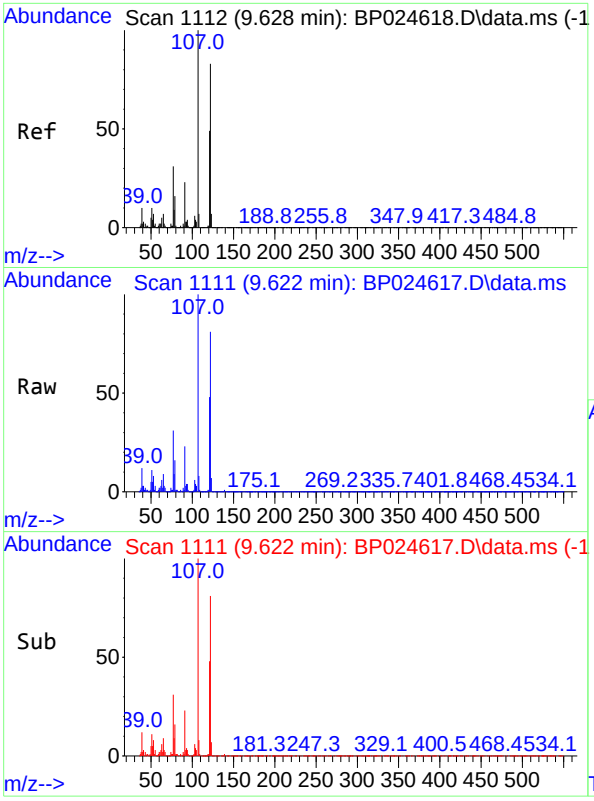


#26
2-Nitrophenol
Concen: 19.73 ng
RT: 9.563 min Scan# 1101
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:139 Resp: 82278

Ion	Ratio	Lower	Upper
139	100		
109	32.8	25.9	38.9
65	45.6	37.9	56.9

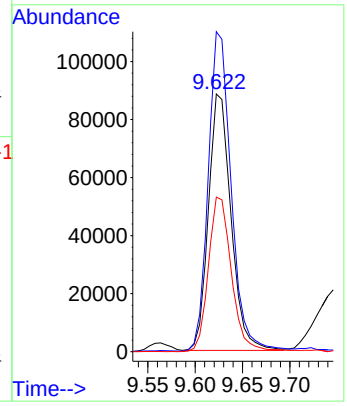




#27
2,4-Dimethylphenol
Concen: 19.96 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:122 Resp: 14681

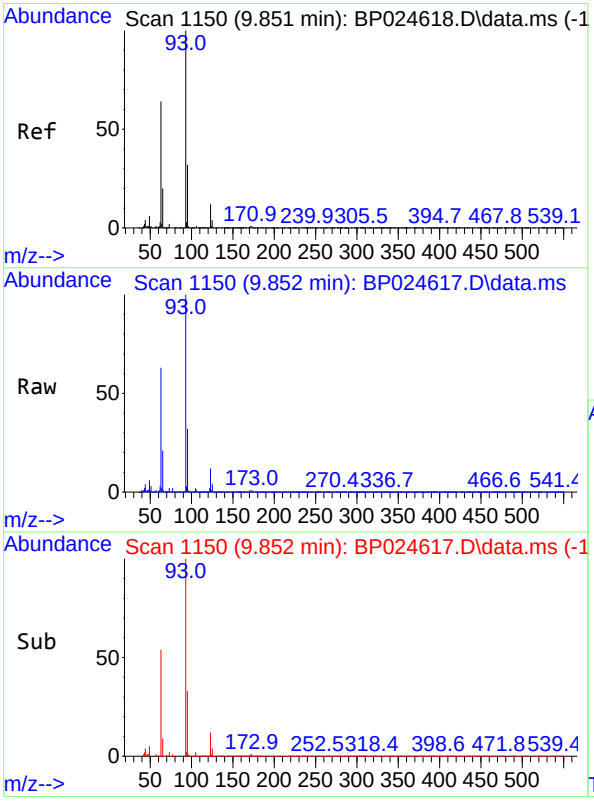
Ion	Ratio	Lower	Upper
122	100		
107	124.1	96.2	144.2
121	60.0	47.6	71.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

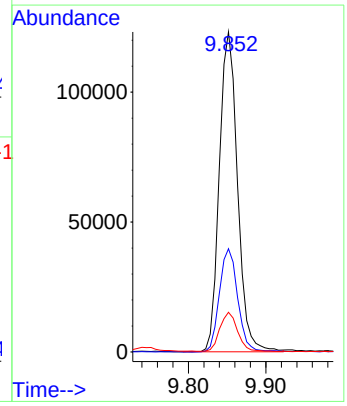
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

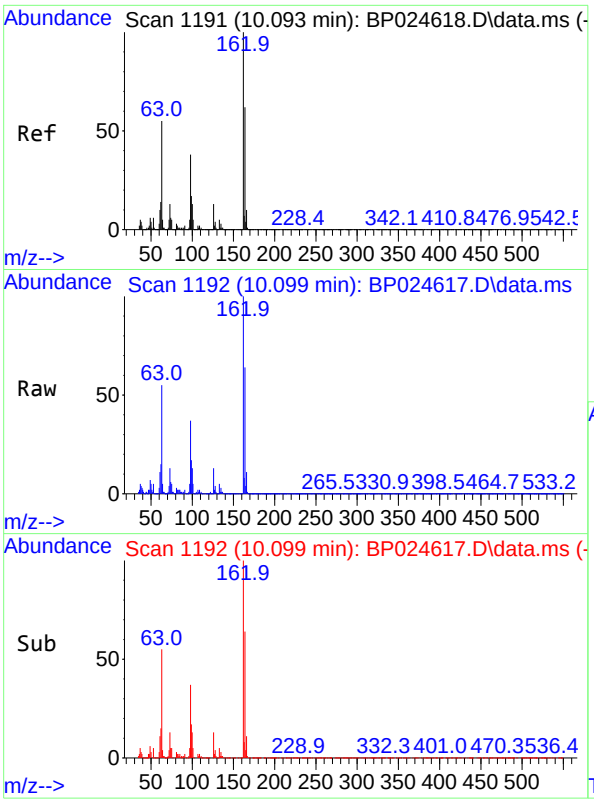


#28
bis(2-Chloroethoxy)methane
Concen: 20.04 ng
RT: 9.852 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 93 Resp: 200872

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.5	38.3
123	12.4	9.7	14.5

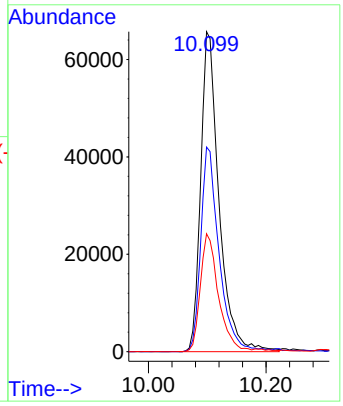




#29
2,4-Dichlorophenol
Concen: 19.90 ng
RT: 10.099 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:162 Resp: 14178

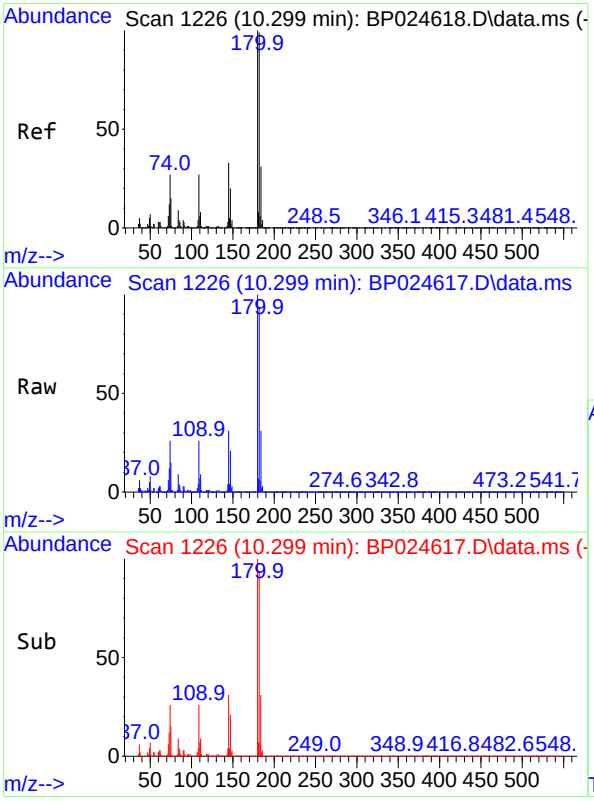
Ion	Ratio	Lower	Upper
162	100		
164	64.0	42.3	82.3
98	36.8	18.4	58.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

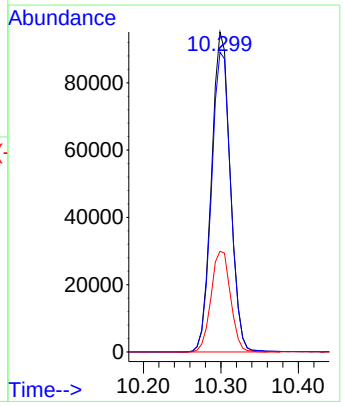
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

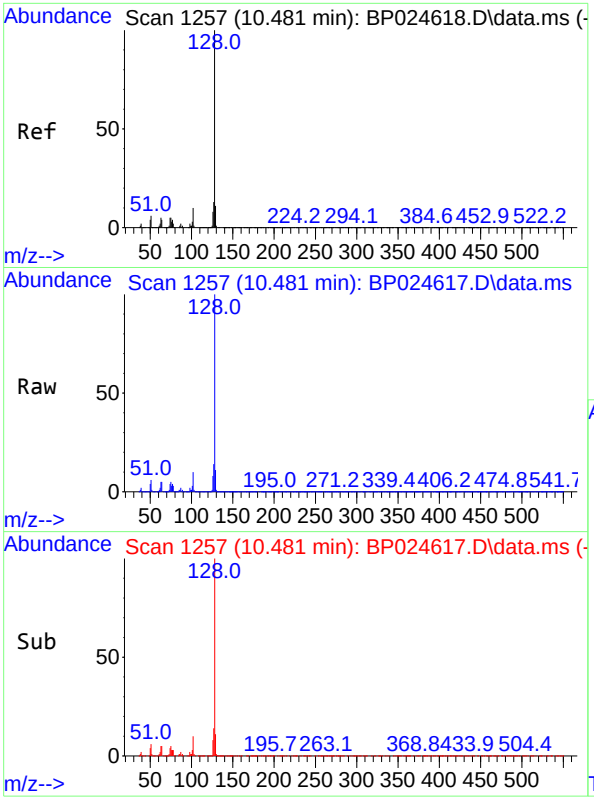


#30
1,2,4-Trichlorobenzene
Concen: 19.92 ng
RT: 10.299 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:180 Resp: 159998

Ion	Ratio	Lower	Upper
180	100		
182	93.7	79.0	118.4
145	31.5	26.6	39.8

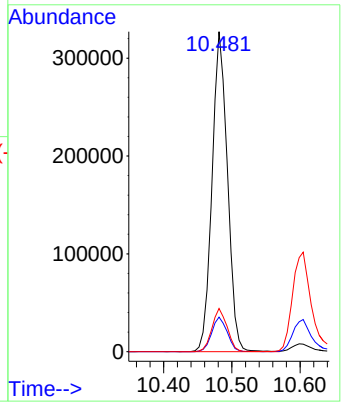




#31
Naphthalene
Concen: 20.25 ng
RT: 10.481 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:128 Resp: 51288

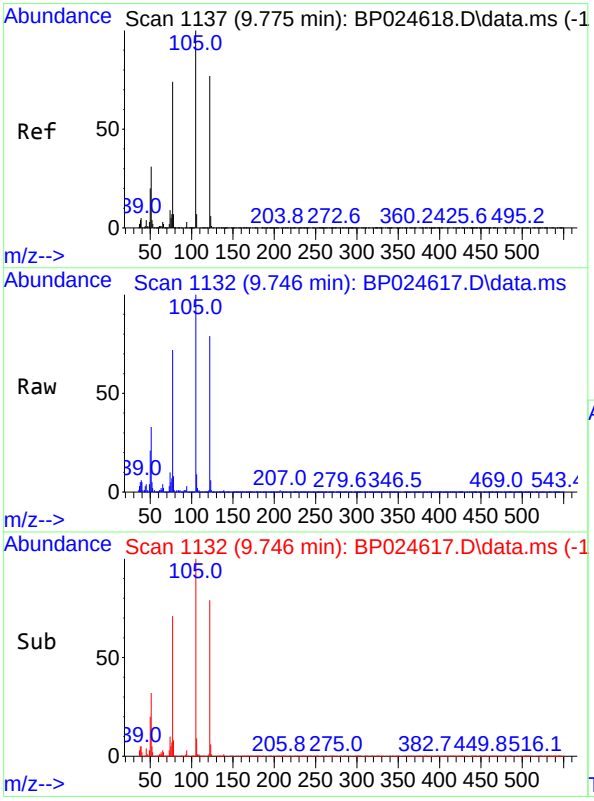
Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	13.5	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

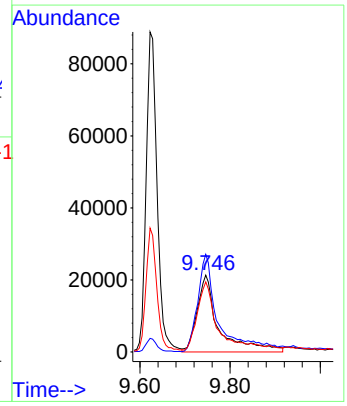
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

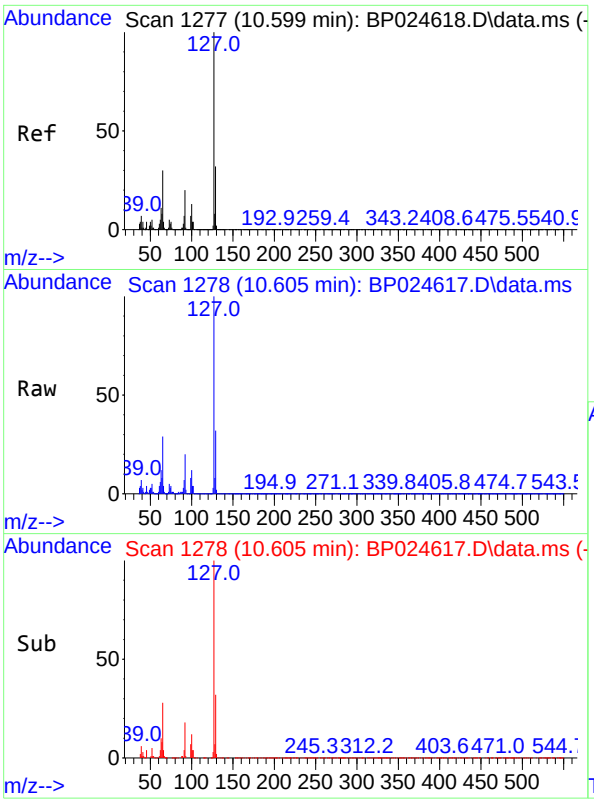


#32
Benzoic acid
Concen: 18.73 ng m
RT: 9.746 min Scan# 1132
Delta R.T. -0.029 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:122 Resp: 71538

Ion	Ratio	Lower	Upper
122	100		
105	127.1	106.9	146.9
77	91.3	75.1	115.1

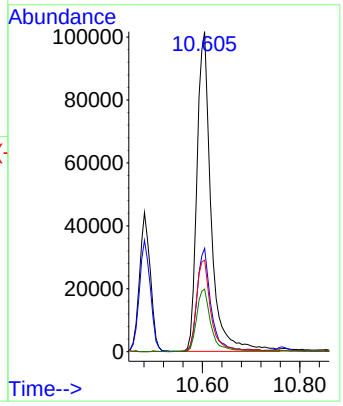




#33
4-Chloroaniline
Concen: 20.10 ng
RT: 10.605 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:127 Resp: 20543

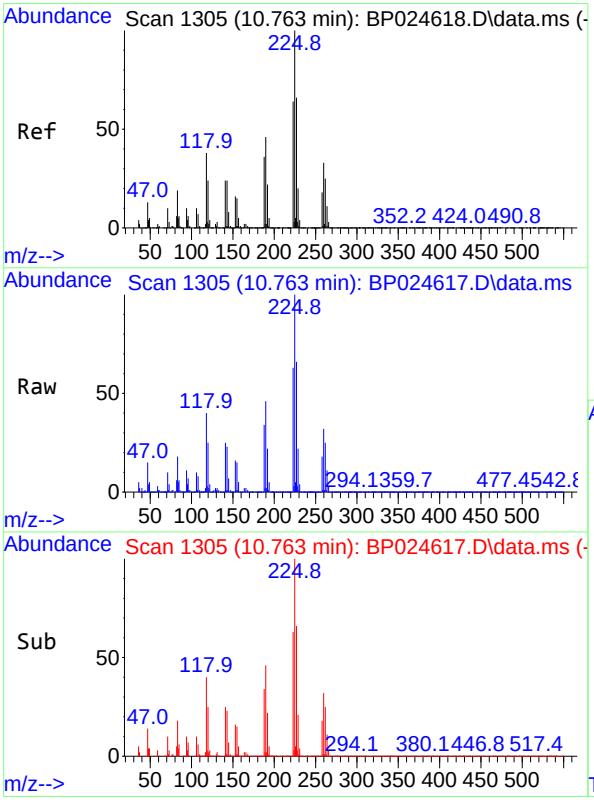
Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.8	38.6
65	28.6	23.9	35.9
92	19.6	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

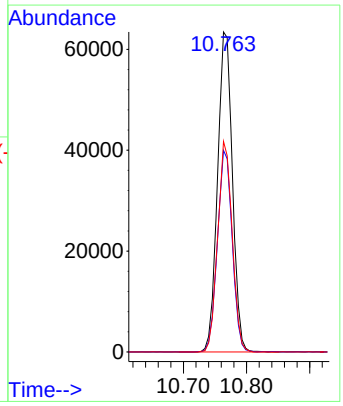
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

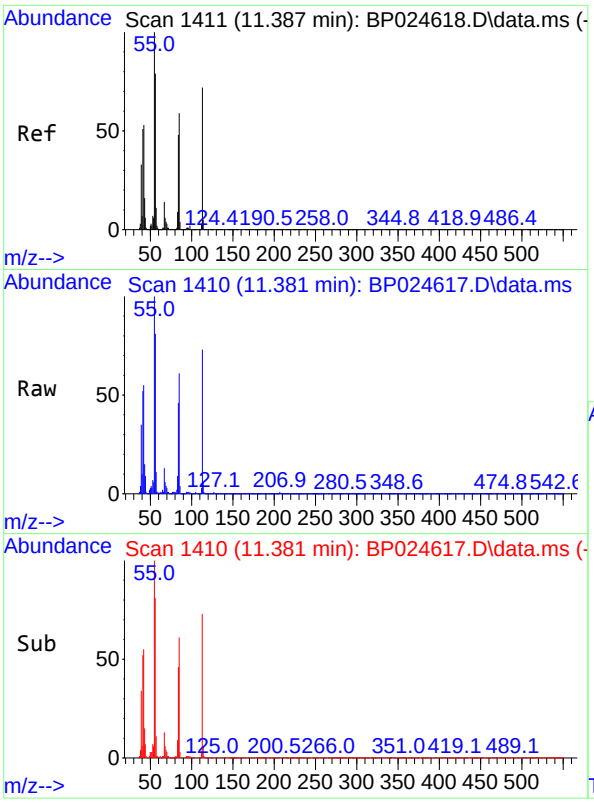


#34
Hexachlorobutadiene
Concen: 19.87 ng
RT: 10.763 min Scan# 1305
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:225 Resp: 103364

Ion	Ratio	Lower	Upper
225	100		
223	63.0	51.0	76.6
227	65.8	53.1	79.7

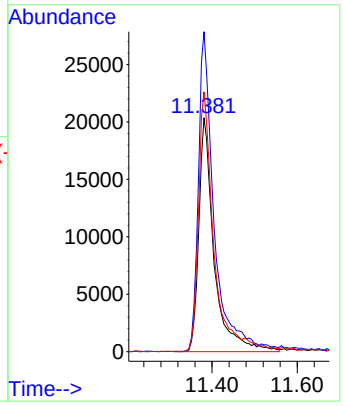




#35
Caprolactam
Concen: 19.68 ng
RT: 11.381 min Scan# 14
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:113 Resp: 5072

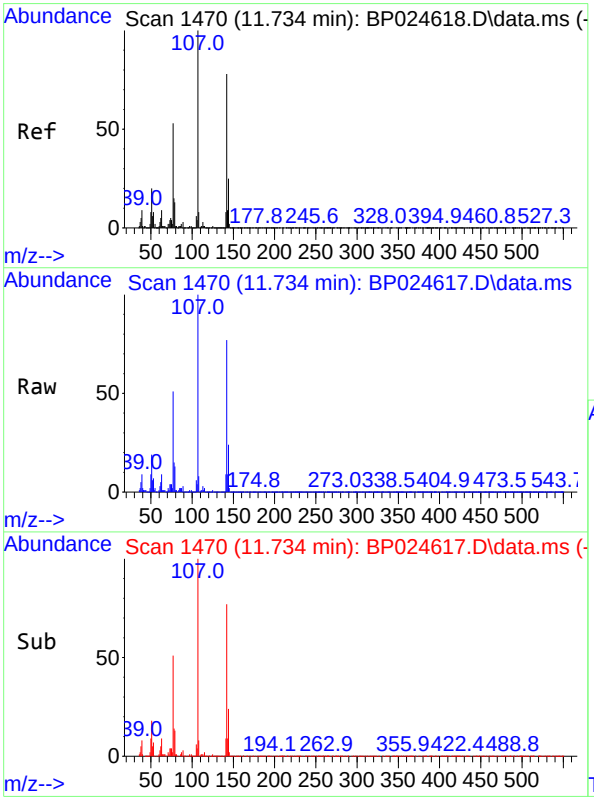
Ion	Ratio	Lower	Upper
113	100		
55	136.8	119.0	159.0
56	111.1	90.3	130.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

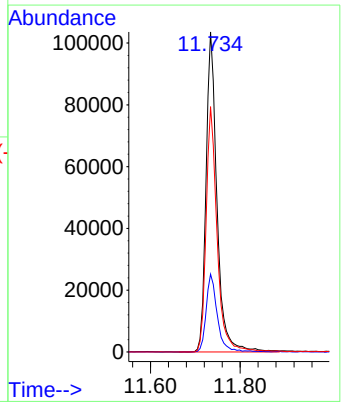
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

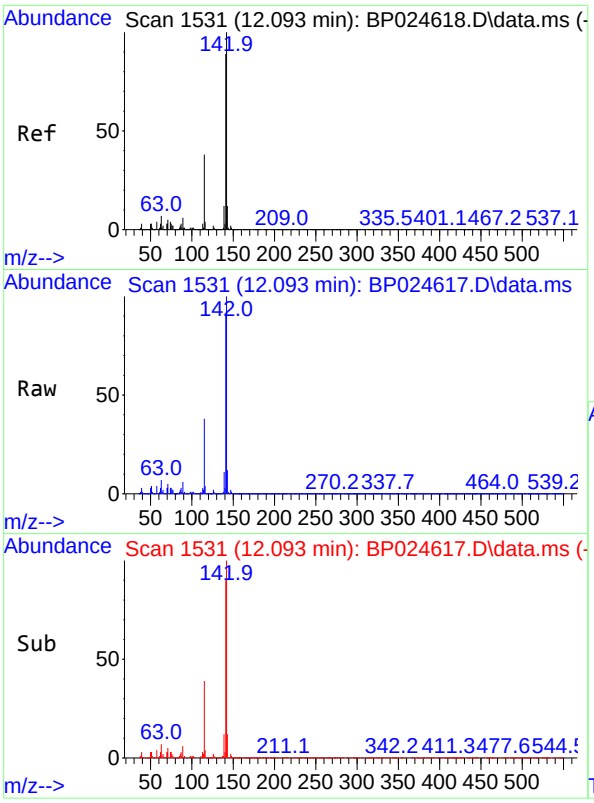


#36
4-Chloro-3-methylphenol
Concen: 20.12 ng
RT: 11.734 min Scan# 1470
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:107 Resp: 174840

Ion	Ratio	Lower	Upper
107	100		
144	24.3	20.1	30.1
142	76.6	62.1	93.1

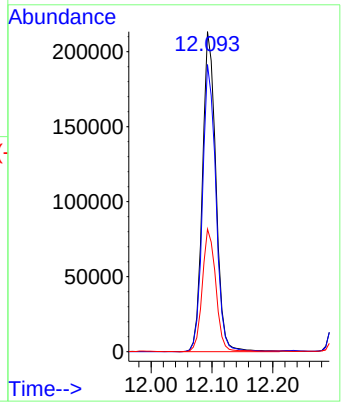




#37
2-Methylnaphthalene
Concen: 19.97 ng
RT: 12.093 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:142 Resp: 32744

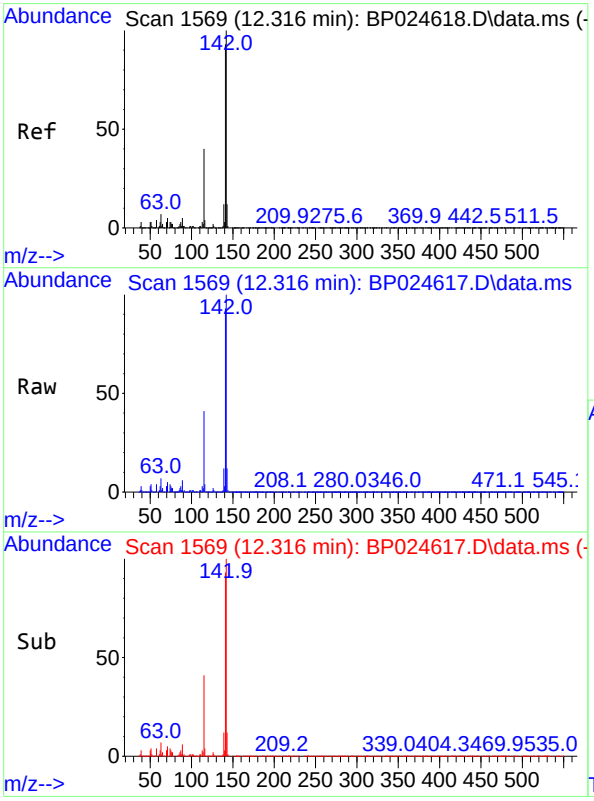
Ion	Ratio	Lower	Upper
142	100		
141	89.7	71.2	106.8
115	38.3	30.6	46.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

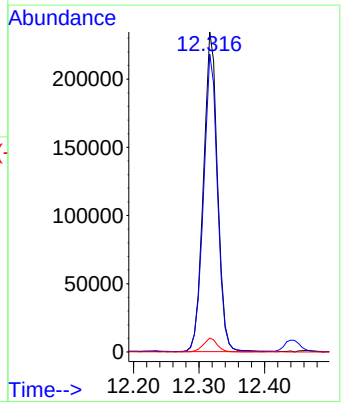
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

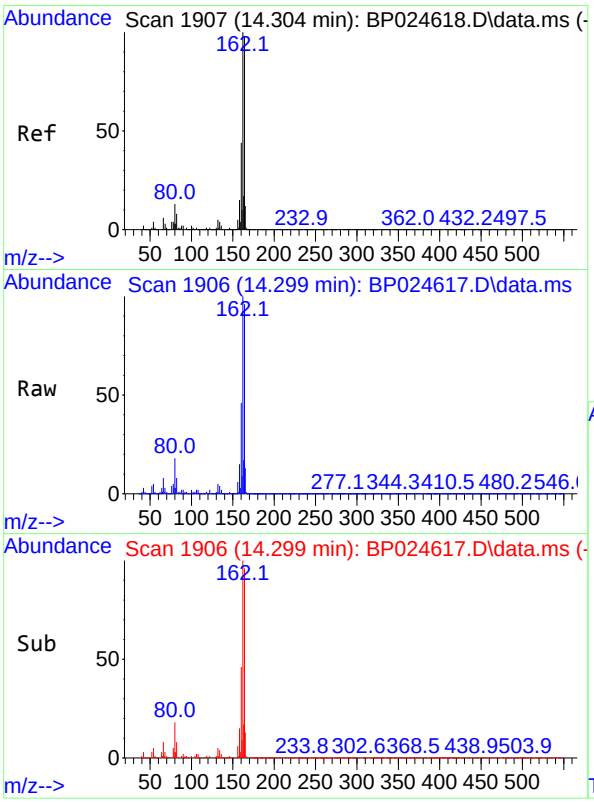


#38
1-Methylnaphthalene
Concen: 20.07 ng
RT: 12.316 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:142 Resp: 352091

Ion	Ratio	Lower	Upper
142	100		
141	93.1	74.7	112.1
116	4.4	3.4	5.2

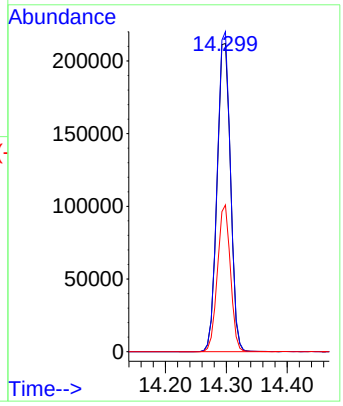




#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.299 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:164 Resp: 32392

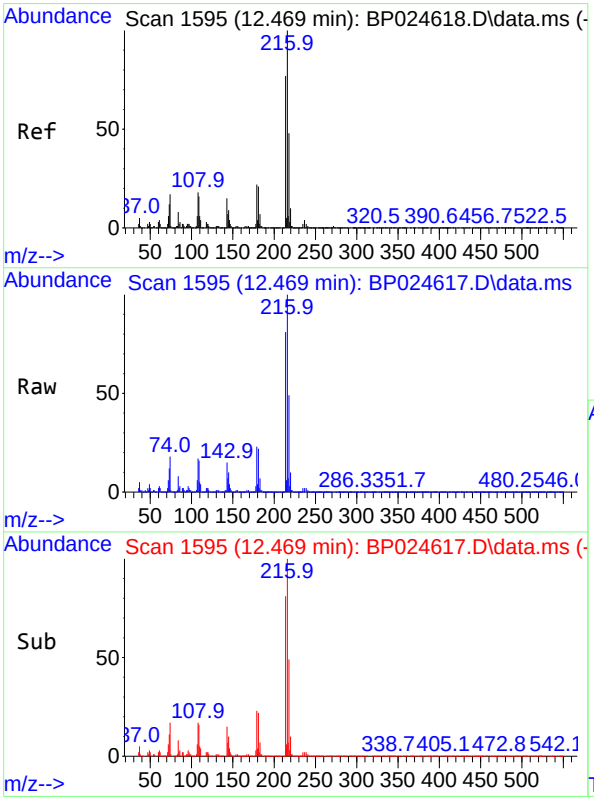
Ion	Ratio	Lower	Upper
164	100		
162	103.8	81.8	122.6
160	47.6	36.3	54.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

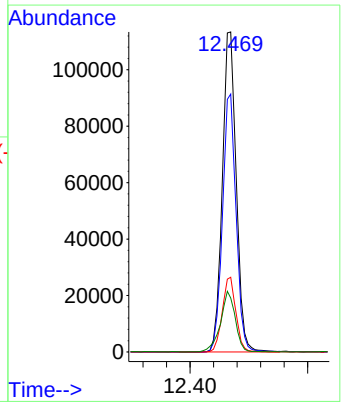
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

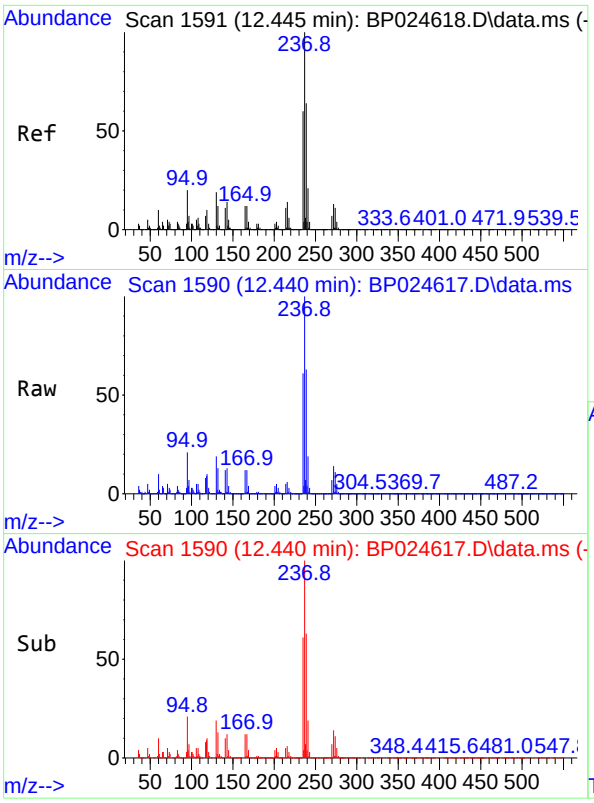


#40
1,2,4,5-Tetrachlorobenzene
Concen: 19.77 ng
RT: 12.469 min Scan# 1595
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:216 Resp: 185982

Ion	Ratio	Lower	Upper
216	100		
214	79.1	62.3	93.5
179	22.9	17.7	26.5
108	20.2	16.0	24.0

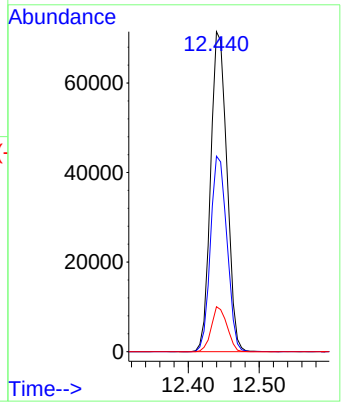




#41
Hexachlorocyclopentadiene
Concen: 19.90 ng
RT: 12.440 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:237 Resp: 11349

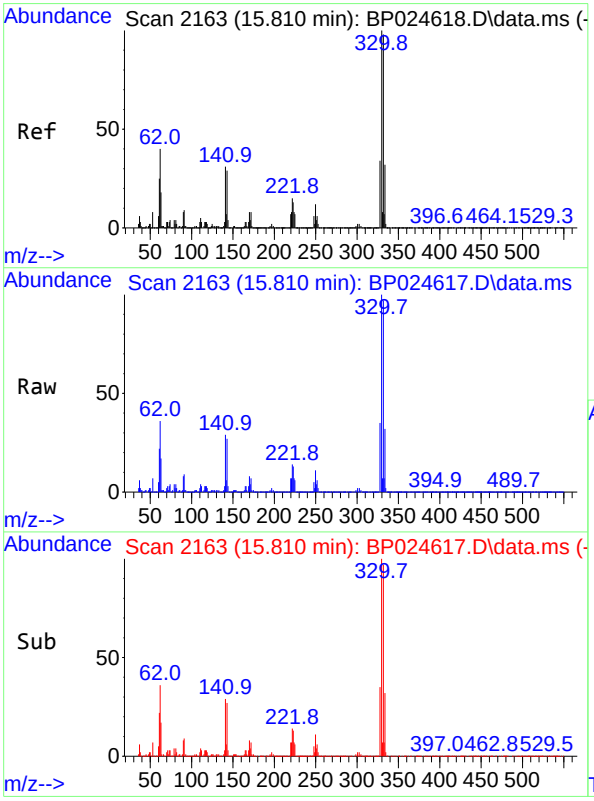
Ion	Ratio	Lower	Upper
237	100		
235	61.1	39.9	79.9
272	14.0	0.0	33.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

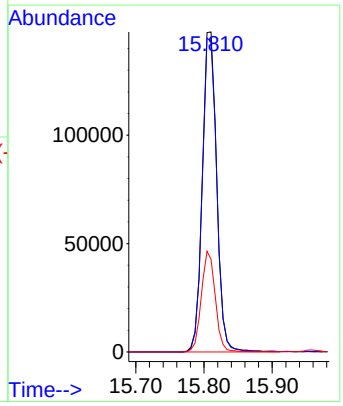
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

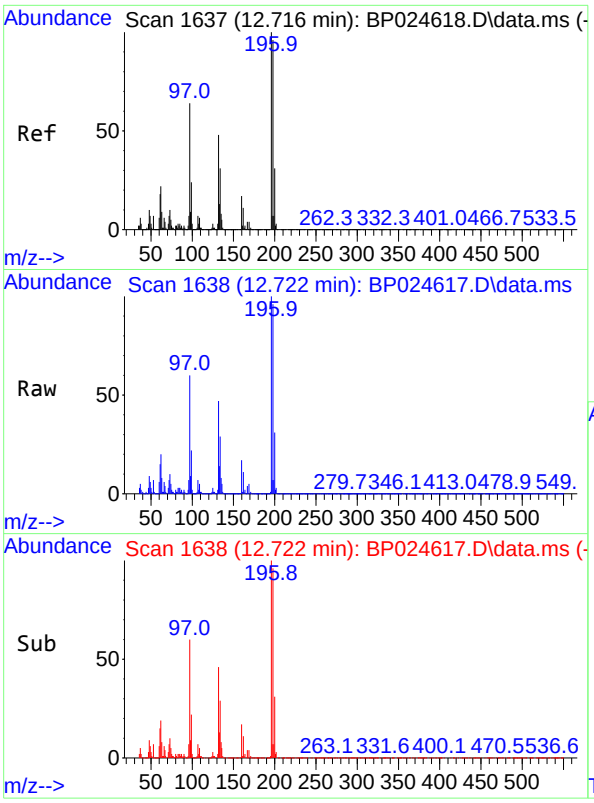


#42
2,4,6-Tribromophenol
Concen: 39.53 ng
RT: 15.810 min Scan# 2163
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:330 Resp: 217092

Ion	Ratio	Lower	Upper
330	100		
332	97.8	78.2	117.4
141	30.5	24.3	36.5

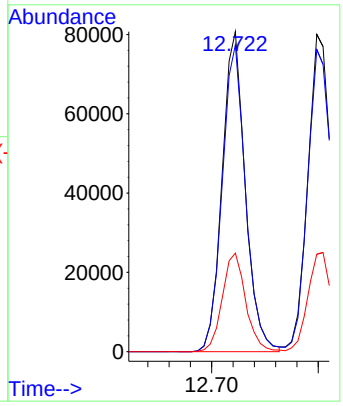




#43
2,4,6-Trichlorophenol
Concen: 19.95 ng
RT: 12.722 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:196 Resp: 12152

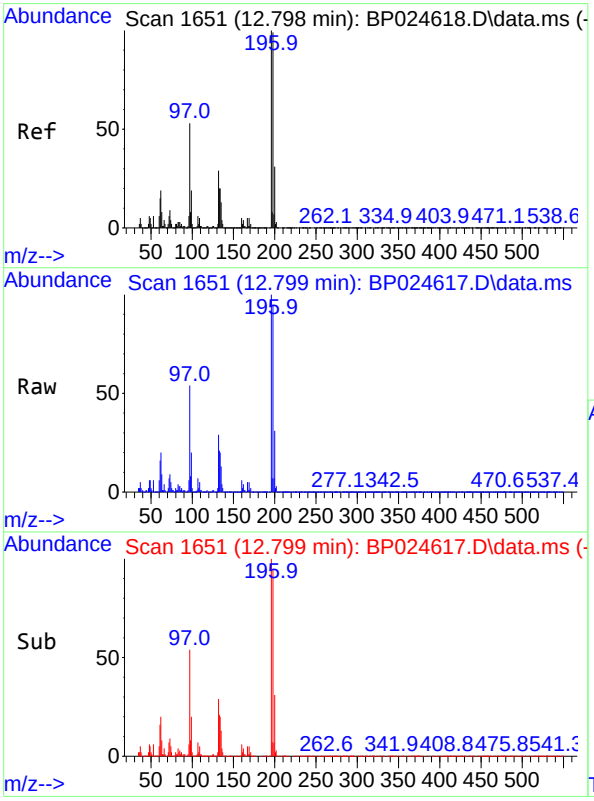
Ion	Ratio	Lower	Upper
196	100		
198	95.8	76.9	115.3
200	30.8	25.2	37.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

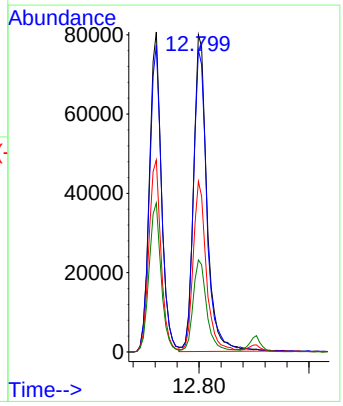
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

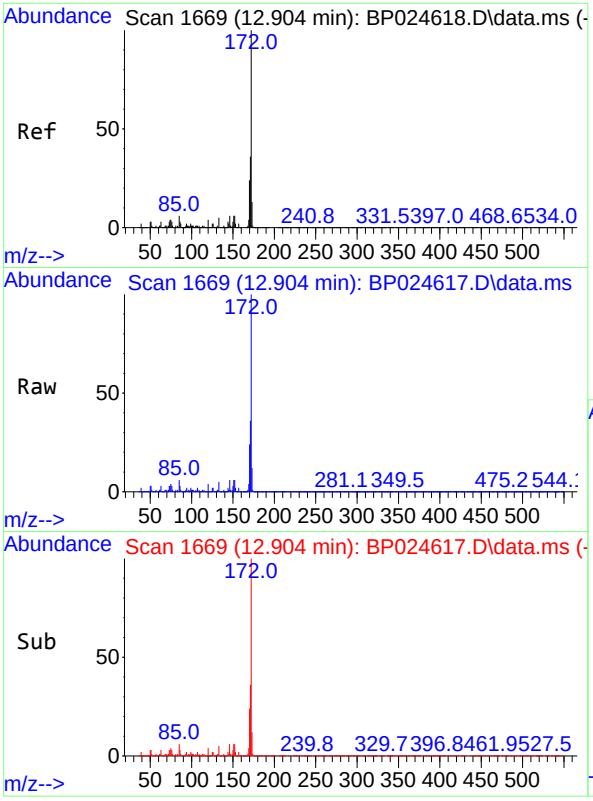


#44
2,4,5-Trichlorophenol
Concen: 19.95 ng
RT: 12.799 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:196 Resp: 135306

Ion	Ratio	Lower	Upper
196	100		
198	95.2	79.2	118.8
97	53.8	42.3	63.5
132	29.0	23.3	34.9

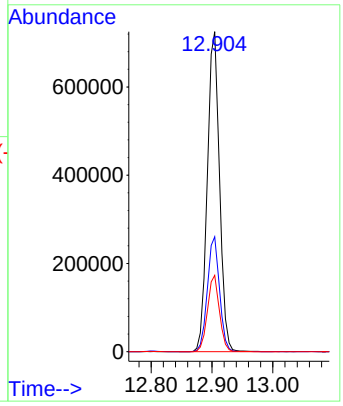




#45
2-Fluorobiphenyl
Concen: 40.69 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:172 Resp: 100615

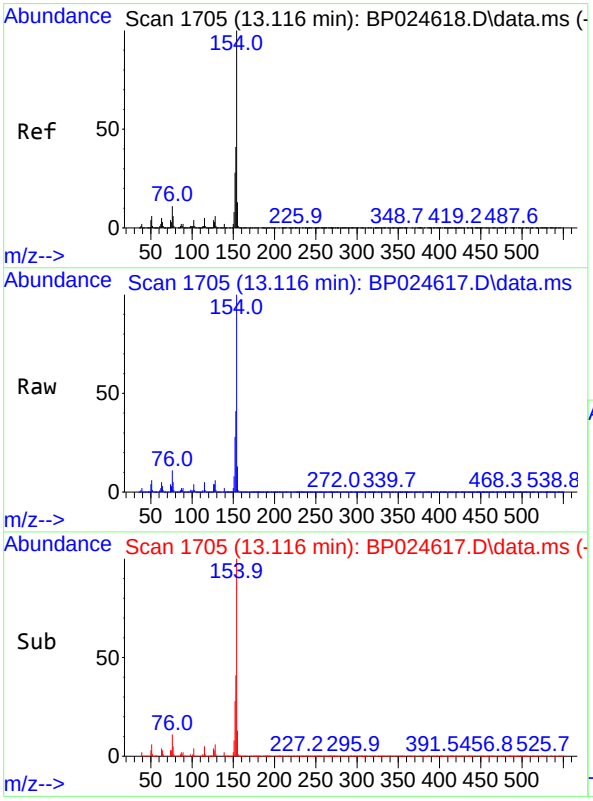
Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.8	43.2
170	23.8	18.8	28.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

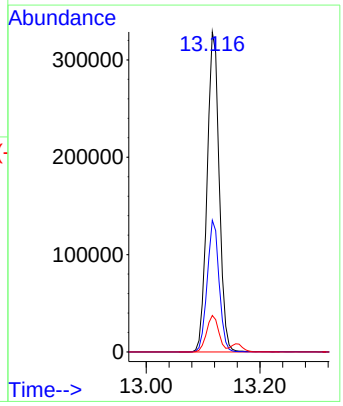
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

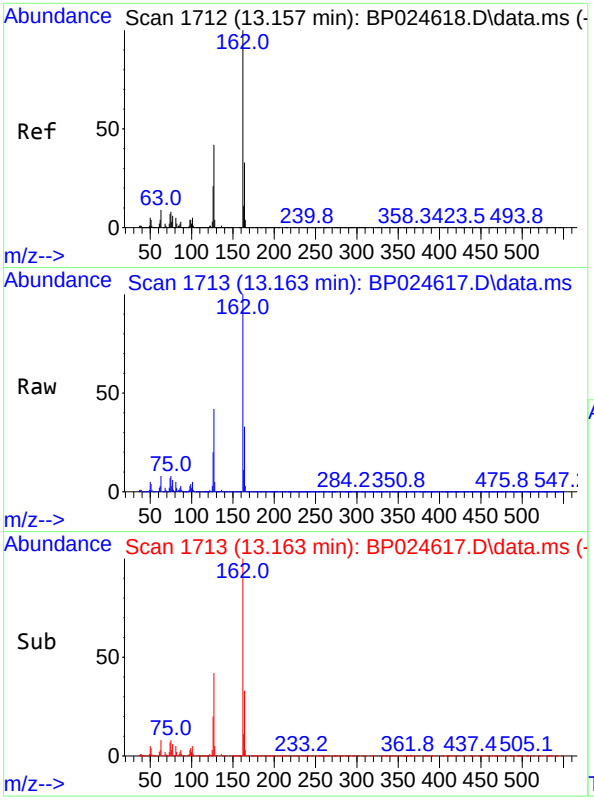


#46
1,1'-Biphenyl
Concen: 20.19 ng
RT: 13.116 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:154 Resp: 483352

Ion	Ratio	Lower	Upper
154	100		
153	41.2	21.0	61.0
76	11.4	0.0	31.5

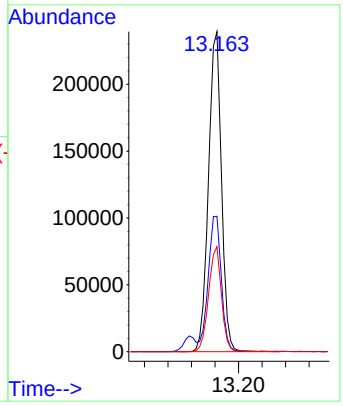




#47
2-Chloronaphthalene
Concen: 20.06 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:162 Resp: 36624

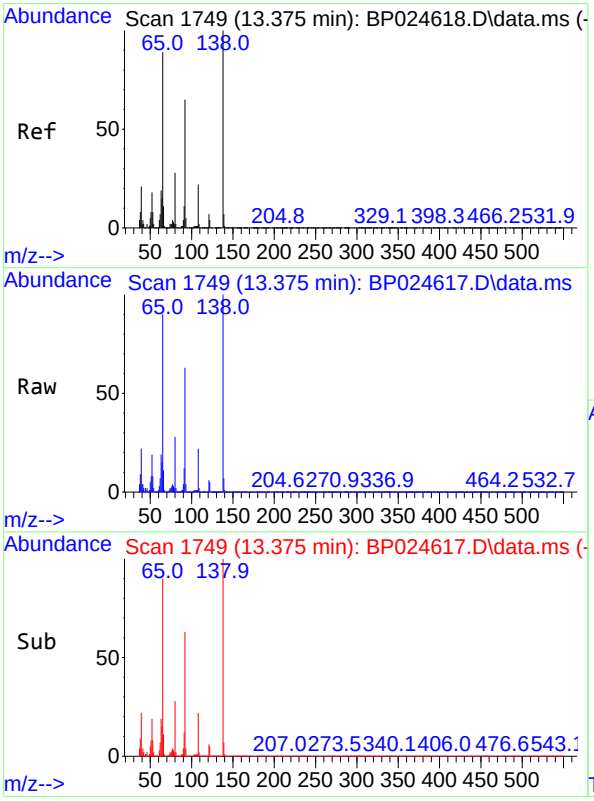
Ion	Ratio	Lower	Upper
162	100		
127	42.3	33.8	50.6
164	32.8	26.0	39.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

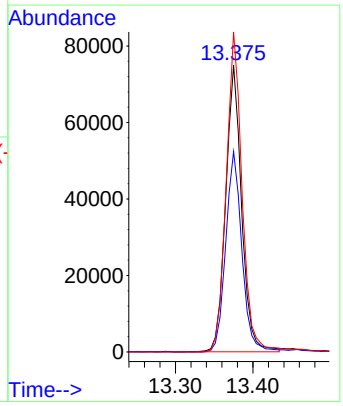
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

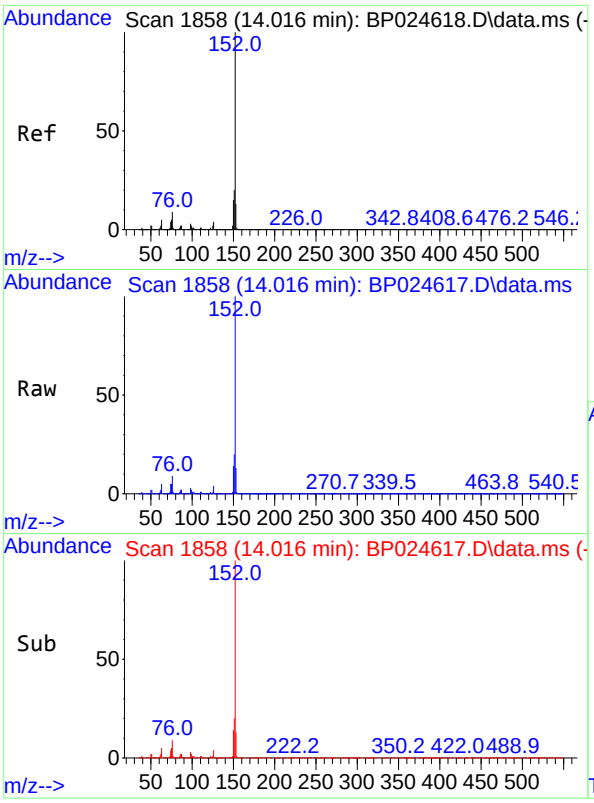


#48
2-Nitroaniline
Concen: 19.81 ng
RT: 13.375 min Scan# 1749
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 65 Resp: 107062

Ion	Ratio	Lower	Upper
65	100		
92	69.8	58.7	88.1
138	111.5	90.2	135.2

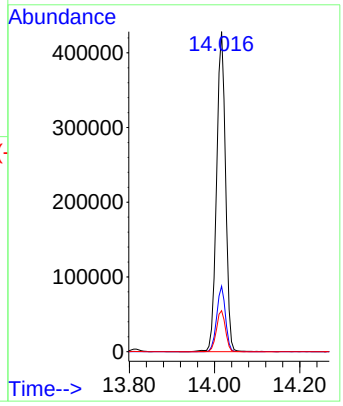




#49
Acenaphthylene
Concen: 20.36 ng
RT: 14.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:152 Resp: 62199

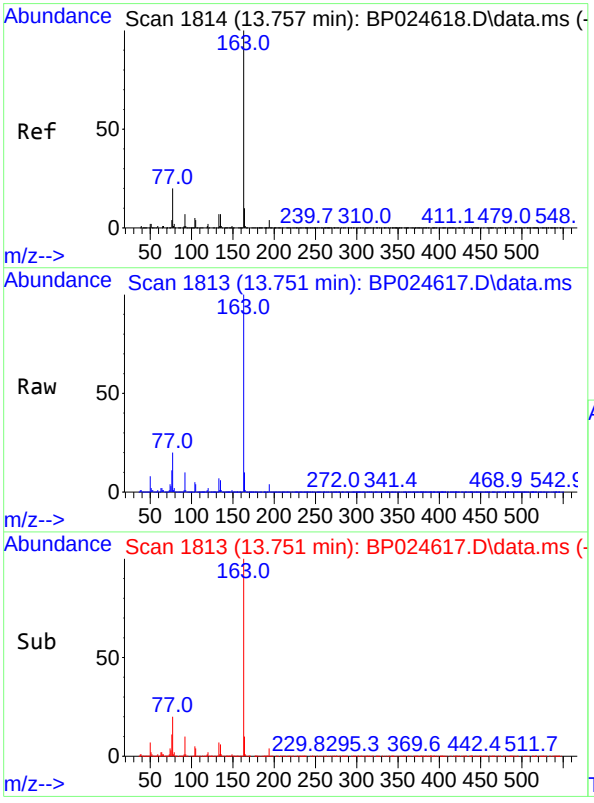
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4
153	12.8	10.2	15.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

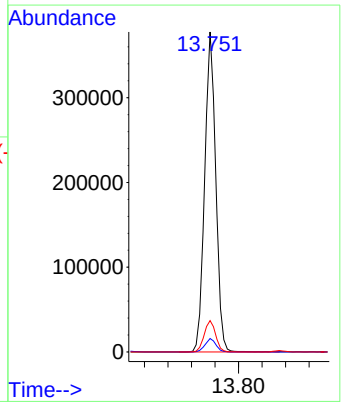
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

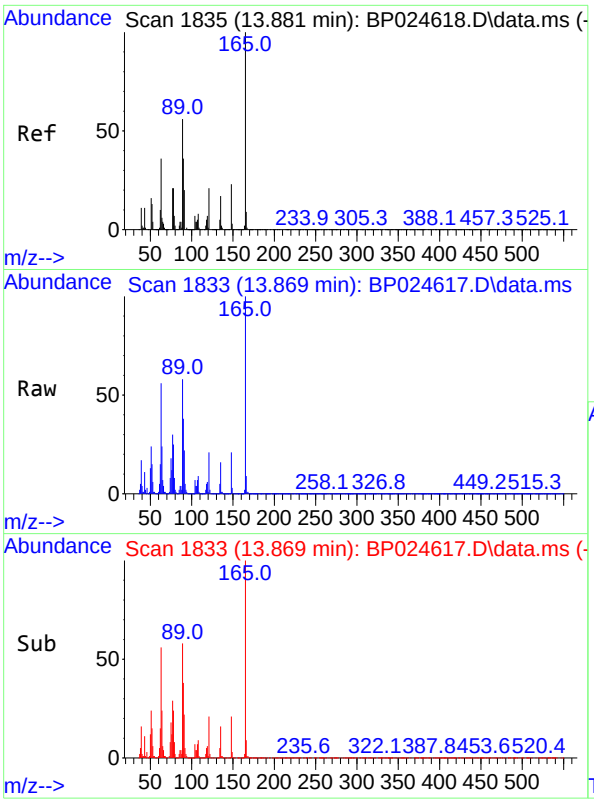


#50
Dimethylphthalate
Concen: 19.91 ng
RT: 13.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:163 Resp: 491623

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	9.8	8.1	12.1





#51
2,6-Dinitrotoluene
Concen: 20.23 ng
RT: 13.869 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

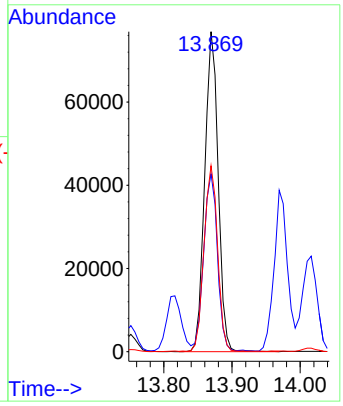
Tgt Ion:165 Resp: 10547

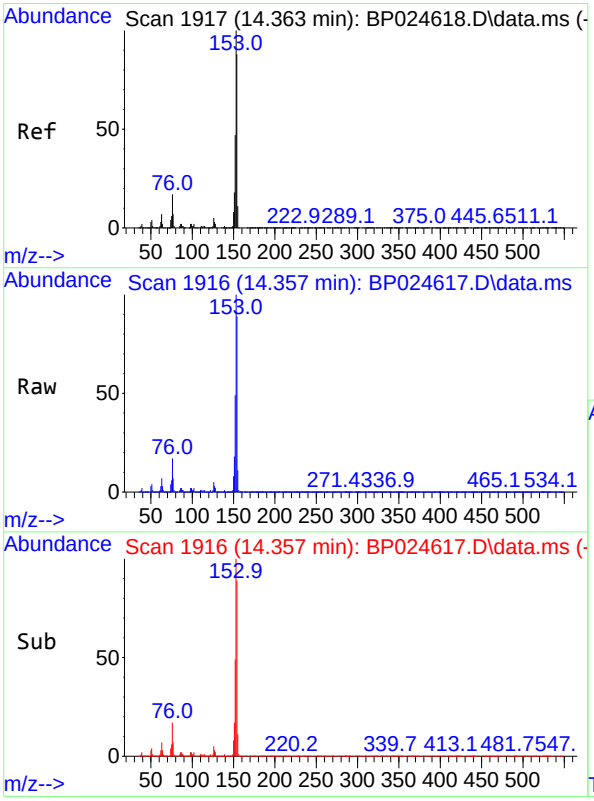
Ion	Ratio	Lower	Upper
165	100		
63	55.6	42.4	63.6
89	58.1	44.8	67.2

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

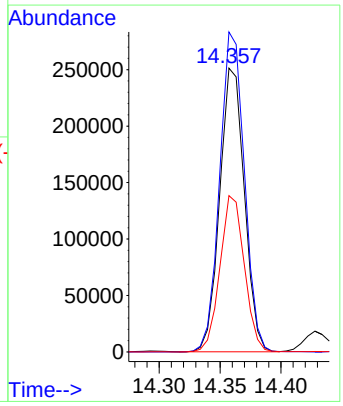


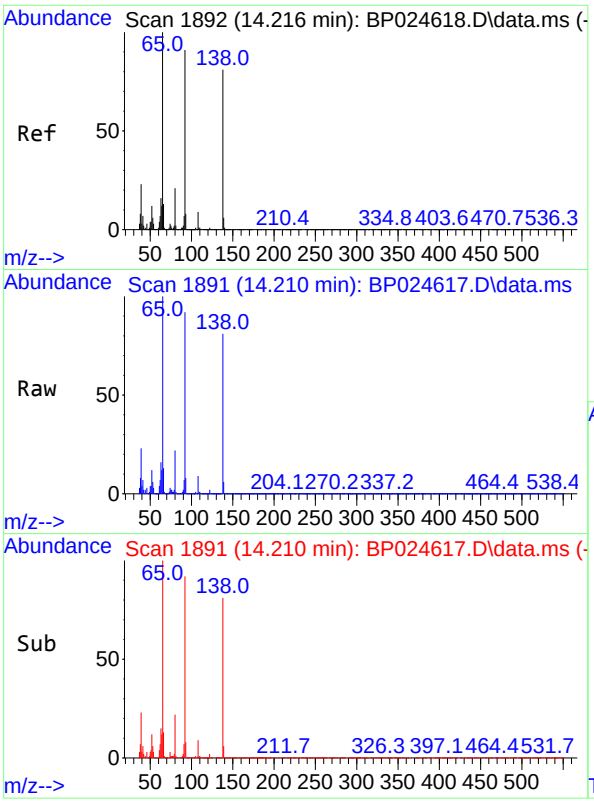


#52
Acenaphthene
Concen: 20.19 ng
RT: 14.357 min Scan# 1916
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:154 Resp: 354519

Ion	Ratio	Lower	Upper
154	100		
153	112.7	91.0	136.4
152	55.1	42.9	64.3

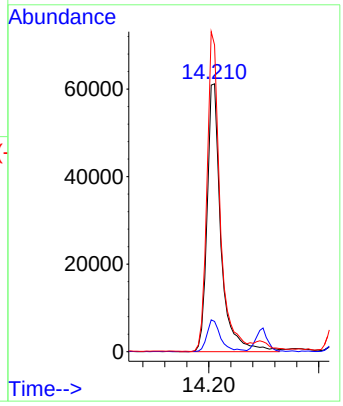




#53
3-Nitroaniline
Concen: 20.01 ng
RT: 14.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:138 Resp: 10652

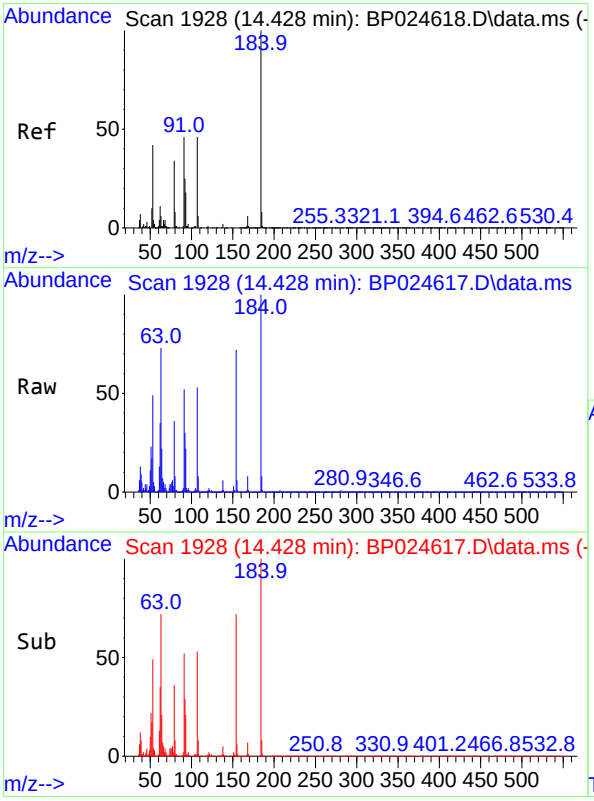
Ion	Ratio	Lower	Upper
138	100		
108	11.3	9.0	13.4
92	114.5	90.1	135.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

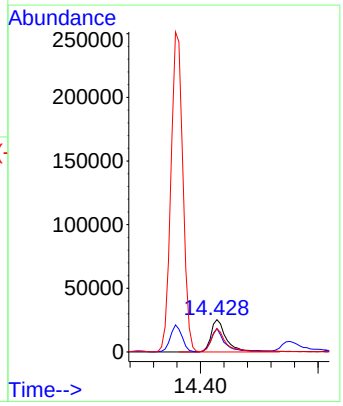
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

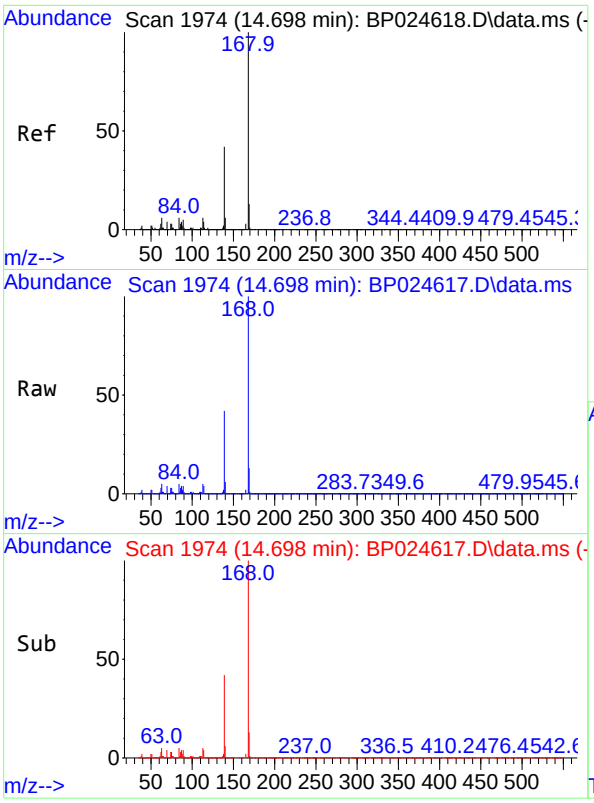


#54
2,4-Dinitrophenol
Concen: 19.37 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:184 Resp: 46351

Ion	Ratio	Lower	Upper
184	100		
63	72.5	51.3	76.9
154	72.4	53.5	80.3

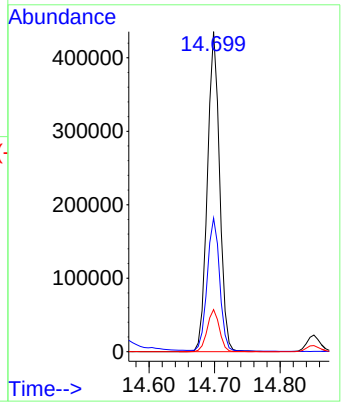




#55
Dibenzofuran
Concen: 20.12 ng
RT: 14.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:168 Resp: 56371

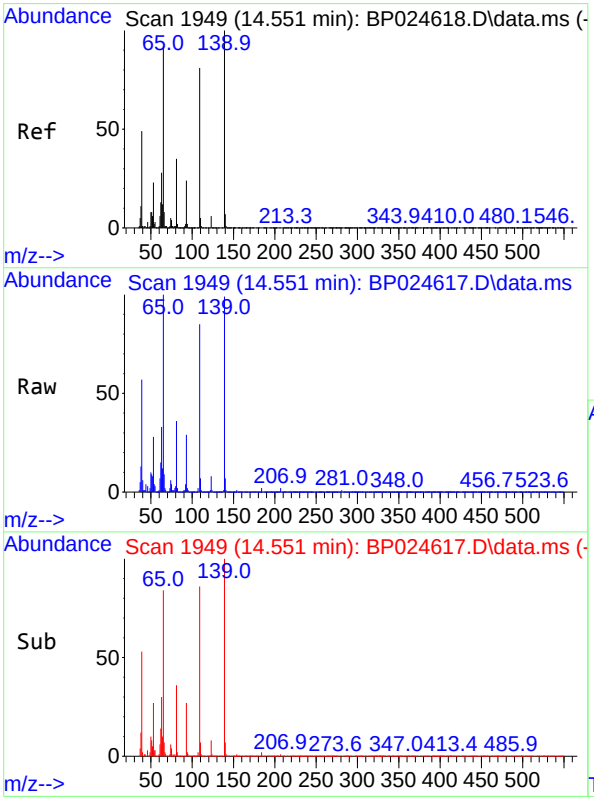
Ion	Ratio	Lower	Upper
168	100		
139	41.8	34.2	51.4
169	13.1	10.8	16.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

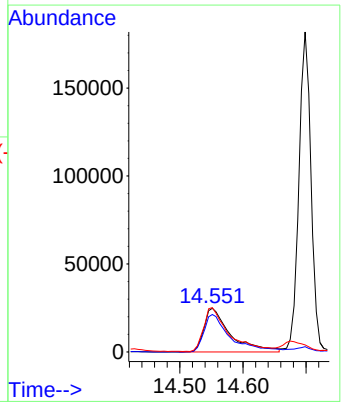
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

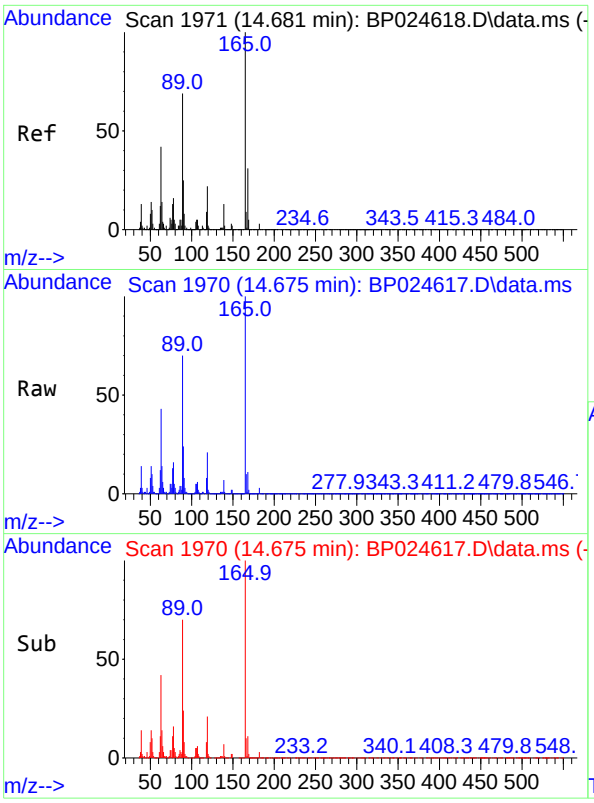


#56
4-Nitrophenol
Concen: 19.02 ng
RT: 14.551 min Scan# 1949
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:139 Resp: 71975

Ion	Ratio	Lower	Upper
139	100		
109	85.7	61.4	101.4
65	101.4	72.2	112.2

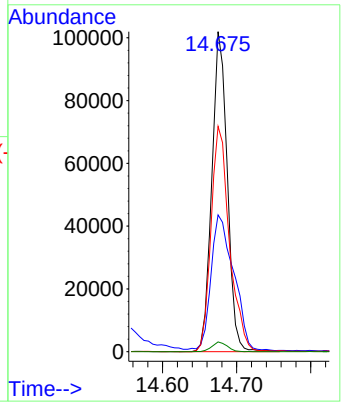




#57
2,4-Dinitrotoluene
Concen: 20.09 ng
RT: 14.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:165 Resp: 14767

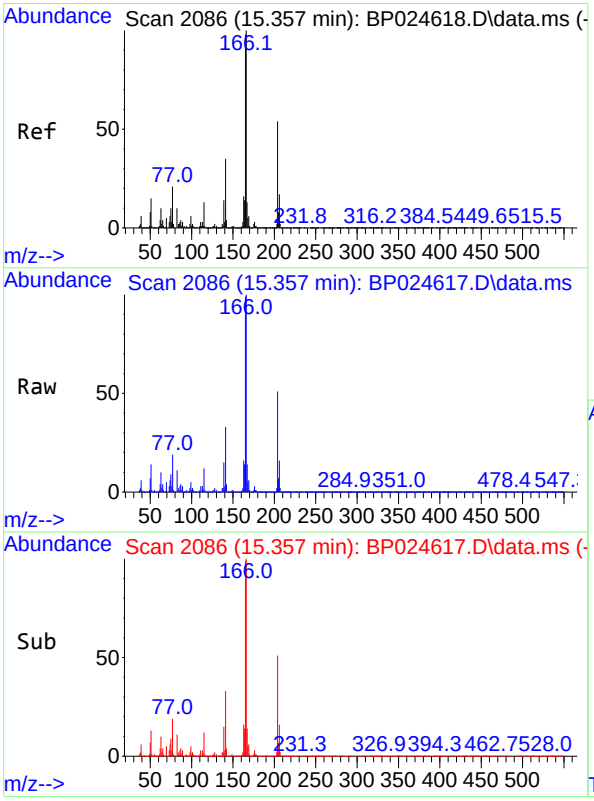
Ion	Ratio	Lower	Upper
165	100		
63	42.7	33.8	50.6
89	70.4	55.6	83.4
182	3.1	2.4	3.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

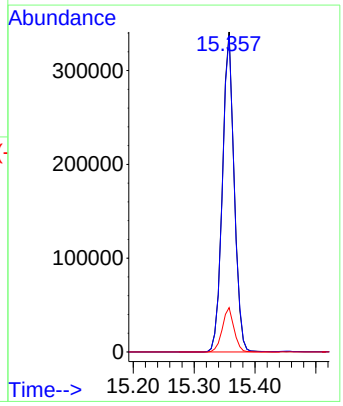
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

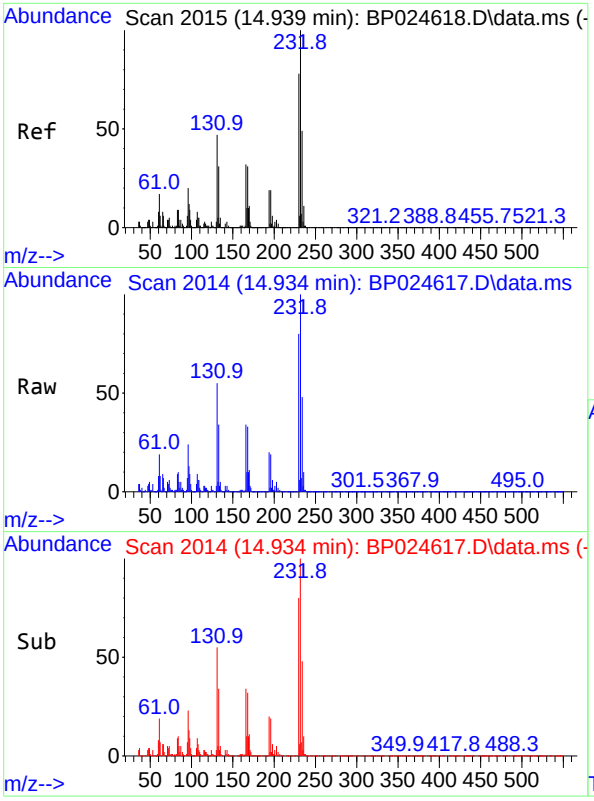


#58
Fluorene
Concen: 20.00 ng
RT: 15.357 min Scan# 2086
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:166 Resp: 456792

Ion	Ratio	Lower	Upper
166	100		
165	98.9	78.5	117.7
167	13.8	10.7	16.1

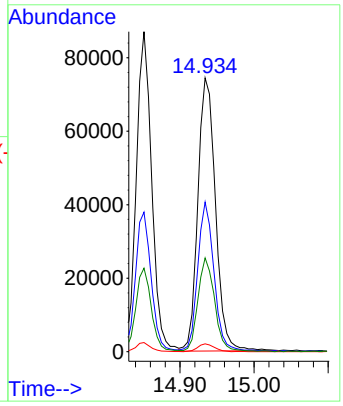




#59
2,3,4,6-Tetrachlorophenol
Concen: 19.59 ng
RT: 14.934 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:232 Resp: 12326

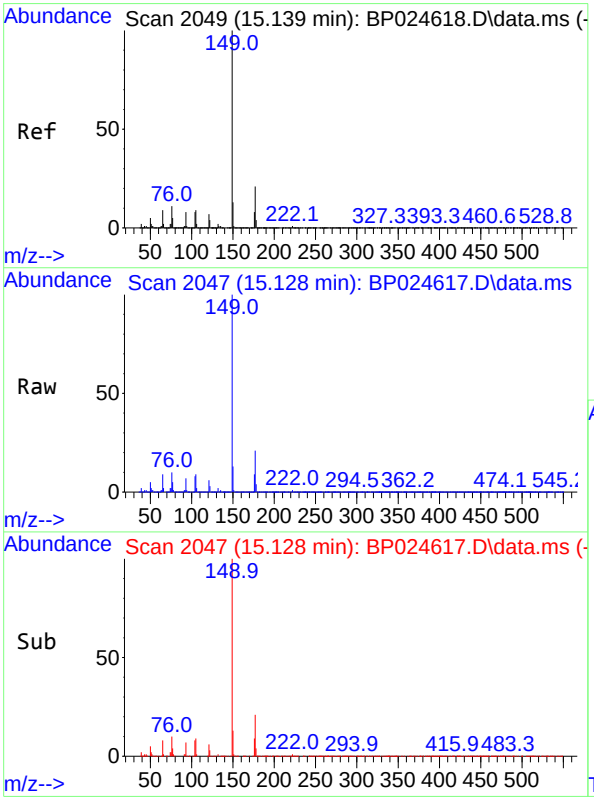
Ion	Ratio	Lower	Upper
232	100		
131	50.2	39.5	59.3
130	2.7	2.2	3.4
166	32.0	25.7	38.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

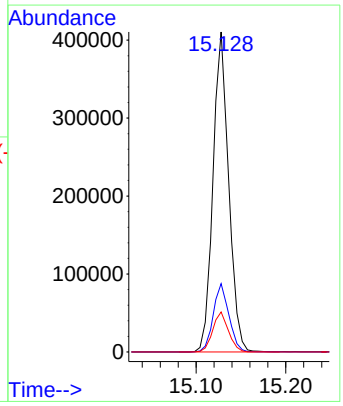
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

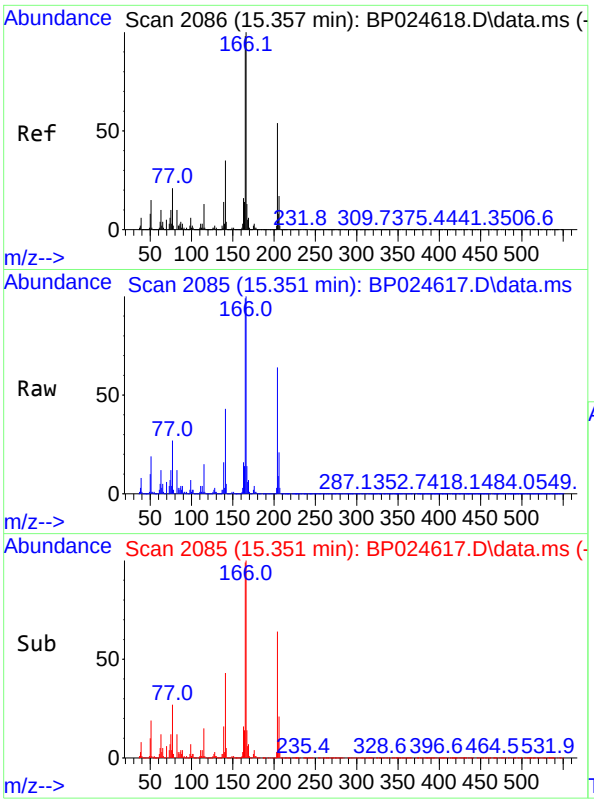


#60
Diethylphthalate
Concen: 19.95 ng
RT: 15.128 min Scan# 2047
Delta R.T. -0.012 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:149 Resp: 497916

Ion	Ratio	Lower	Upper
149	100		
177	21.4	16.7	25.1
150	12.5	10.2	15.2

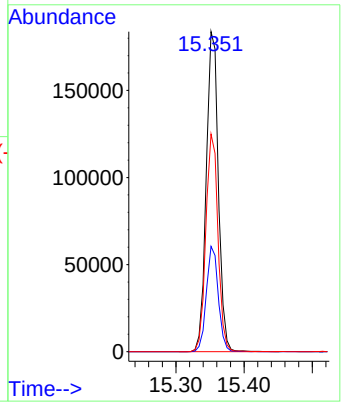




#61
4-Chlorophenyl-phenylether
Concen: 19.91 ng
RT: 15.351 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:204 Resp: 22679

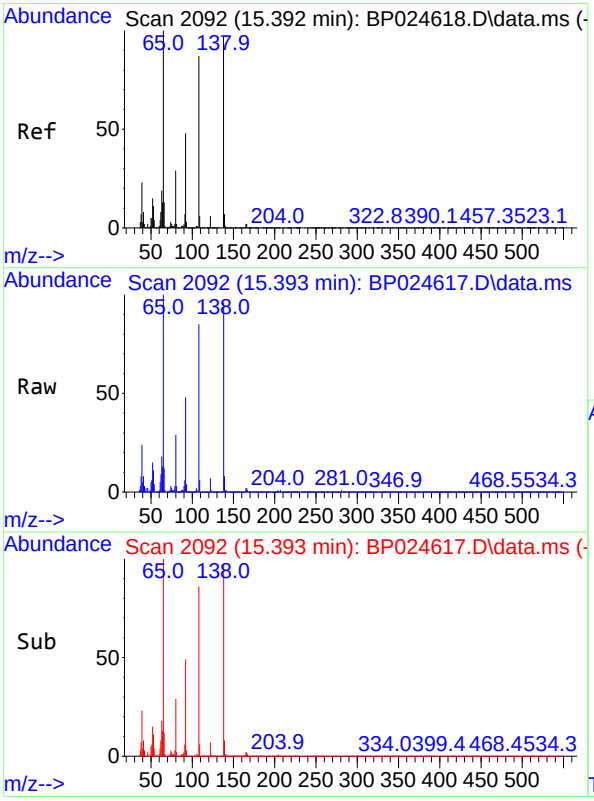
Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.0	39.0
141	68.0	52.9	79.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

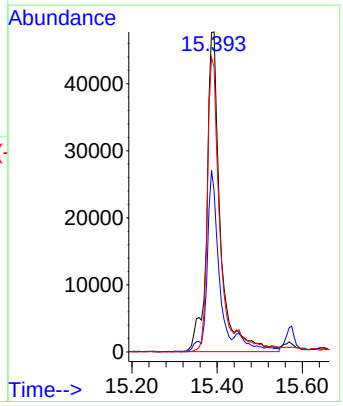
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

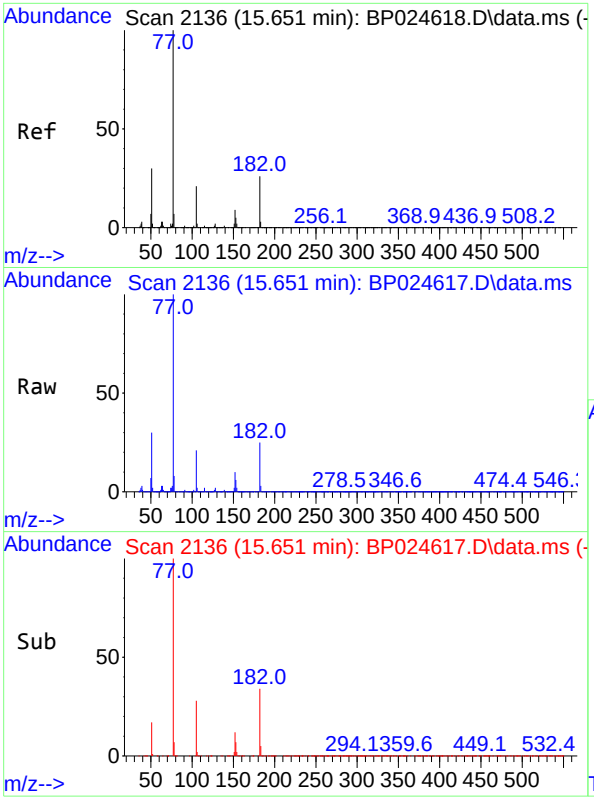


#62
4-Nitroaniline
Concen: 20.37 ng
RT: 15.393 min Scan# 2092
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:138 Resp: 105617

Ion	Ratio	Lower	Upper
138	100		
92	50.4	29.2	69.2
108	89.0	69.0	109.0

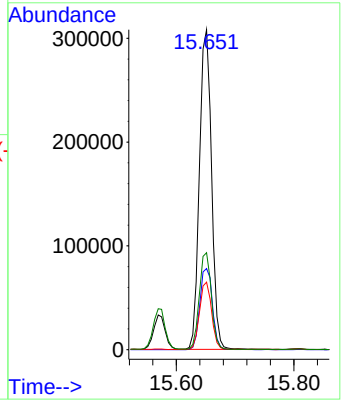




#63
Azobenzene
Concen: 20.57 ng
RT: 15.651 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 77 Resp: 43918

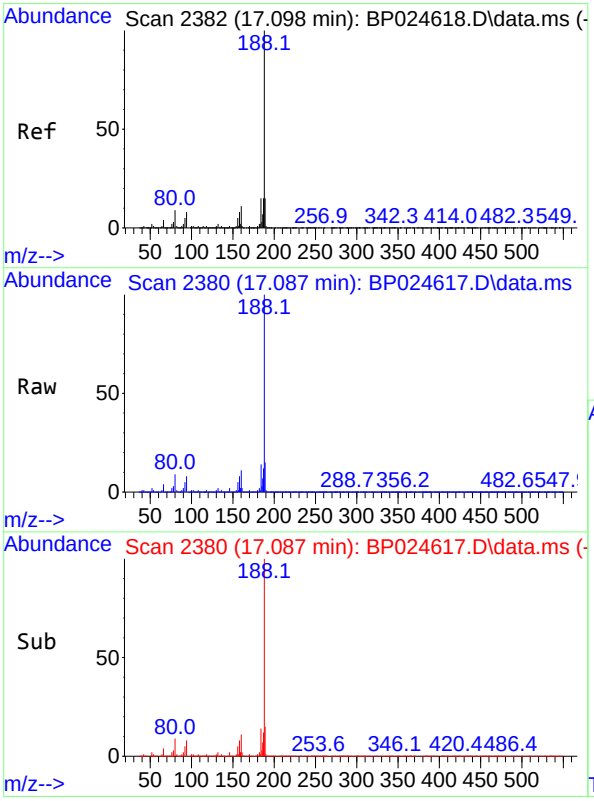
Ion	Ratio	Lower	Upper
77	100		
182	25.4	5.7	45.7
105	21.1	1.3	41.3
51	30.3	10.6	50.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

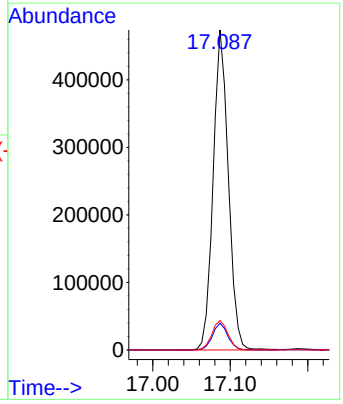
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

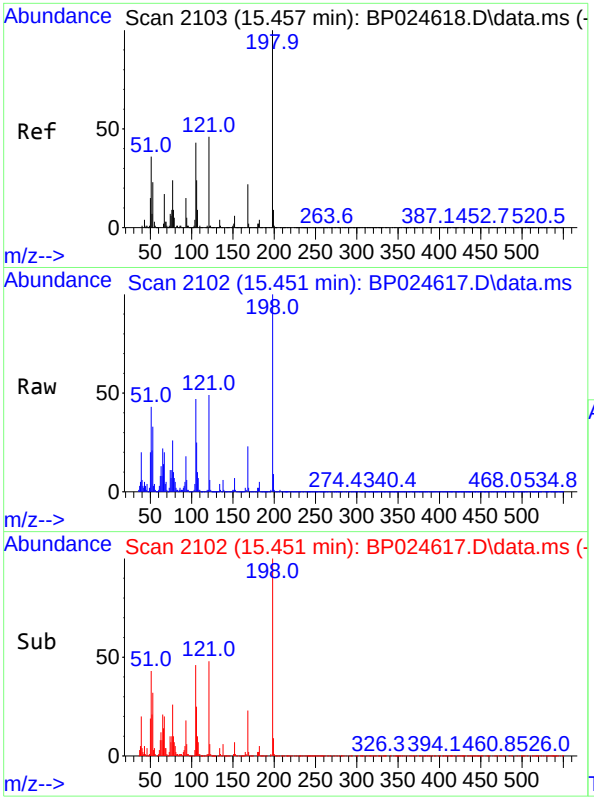


#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.087 min Scan# 2380
Delta R.T. -0.012 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:188 Resp: 644367

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.5	9.7
80	9.2	7.3	10.9





#65
4,6-Dinitro-2-methylphenol
Concen: 18.53 ng
RT: 15.451 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

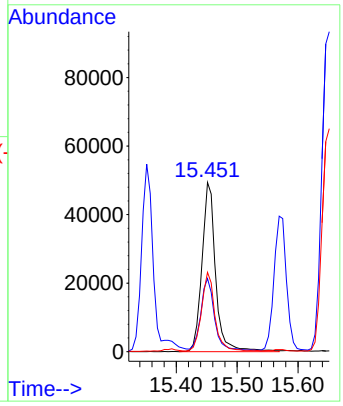
Tgt Ion:198 Resp: 7713

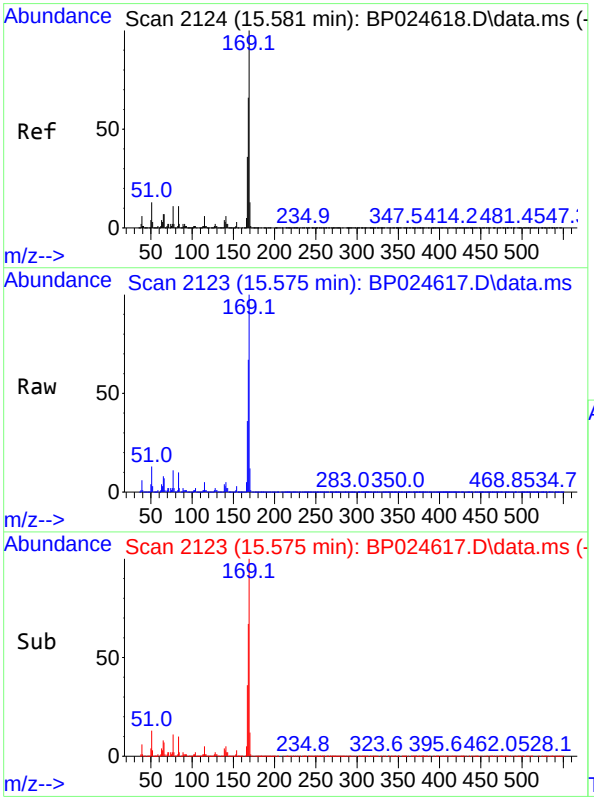
Ion	Ratio	Lower	Upper
198	100		
51	43.2	21.1	61.1
105	46.8	23.6	63.6

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

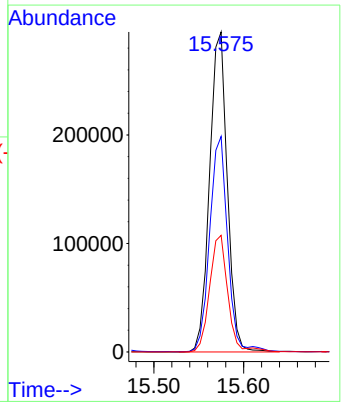


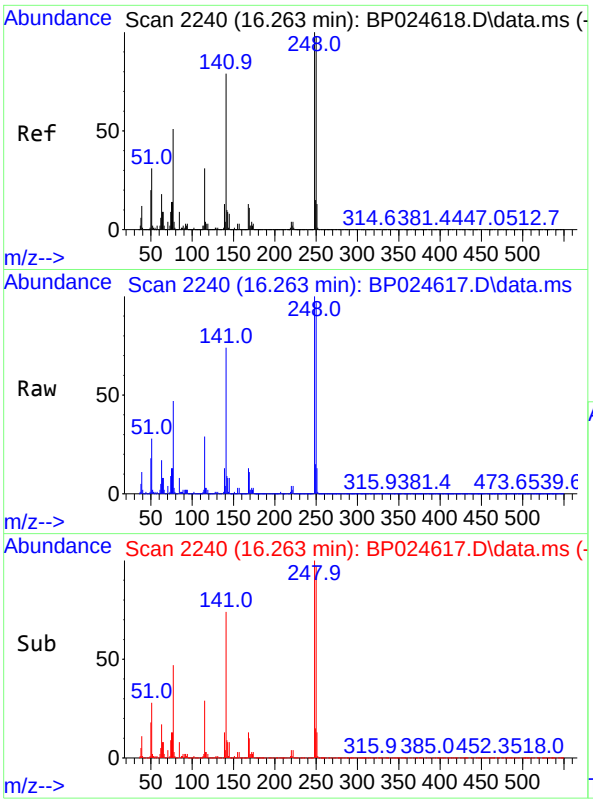


#66
n-Nitrosodiphenylamine
Concen: 20.42 ng
RT: 15.575 min Scan# 2123
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:169 Resp: 404085

Ion	Ratio	Lower	Upper
169	100		
168	67.4	53.2	79.8
167	36.5	28.6	43.0

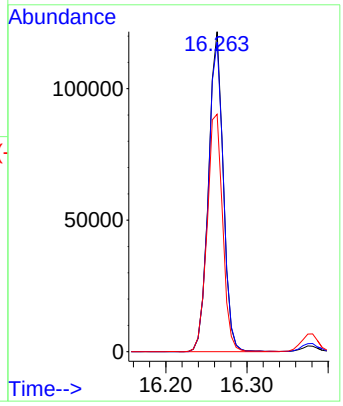




#67
4-Bromophenyl-phenylether
Concen: 20.07 ng
RT: 16.263 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:248 Resp: 15239

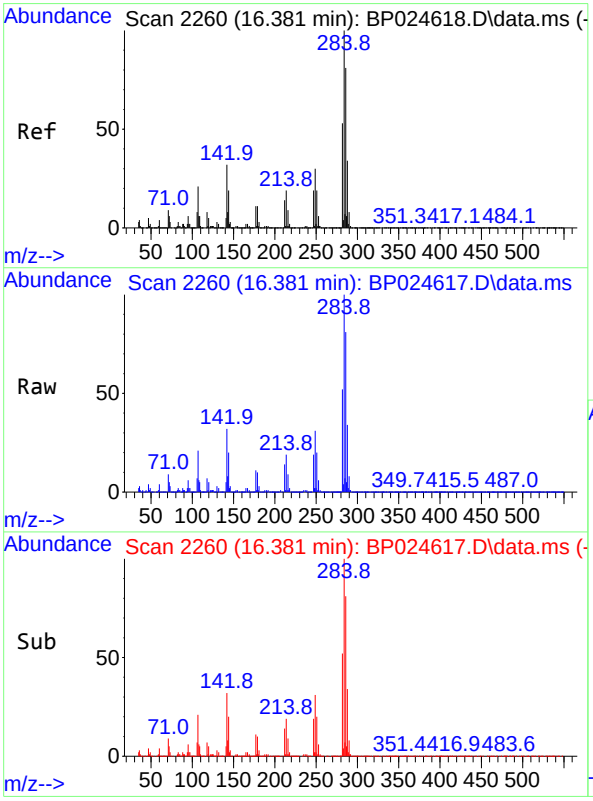
Ion	Ratio	Lower	Upper
248	100		
250	96.8	78.2	117.4
141	74.2	63.0	94.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

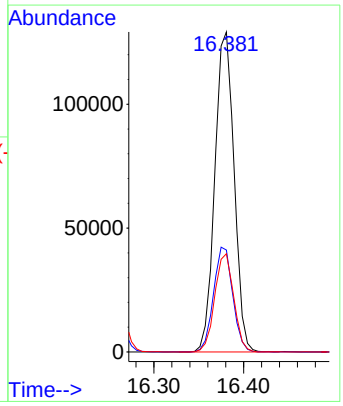
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

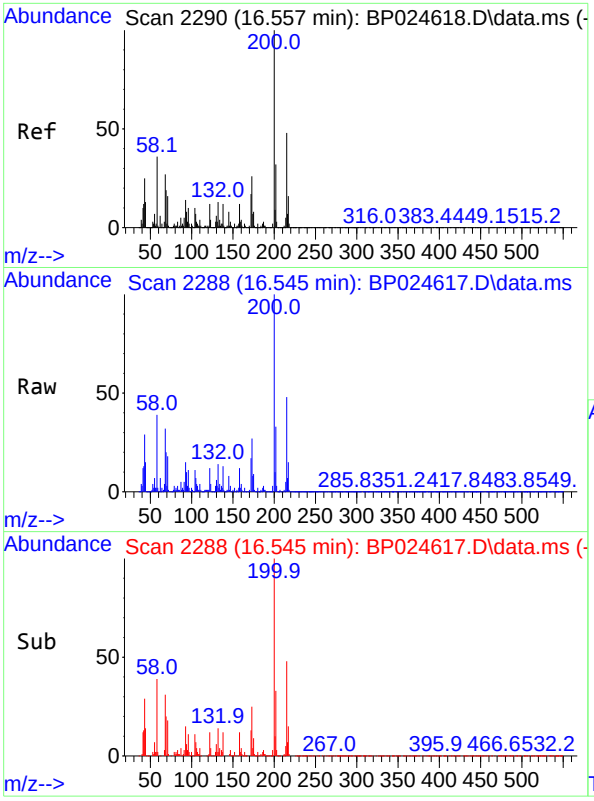


#68
Hexachlorobenzene
Concen: 19.93 ng
RT: 16.381 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:284 Resp: 192290

Ion	Ratio	Lower	Upper
284	100		
142	31.9	25.9	38.9
249	30.7	24.1	36.1

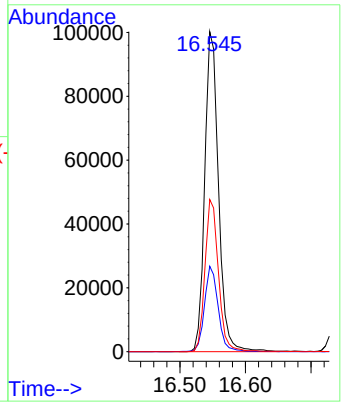




#69
Atrazine
Concen: 20.19 ng
RT: 16.545 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:200 Resp: 14646

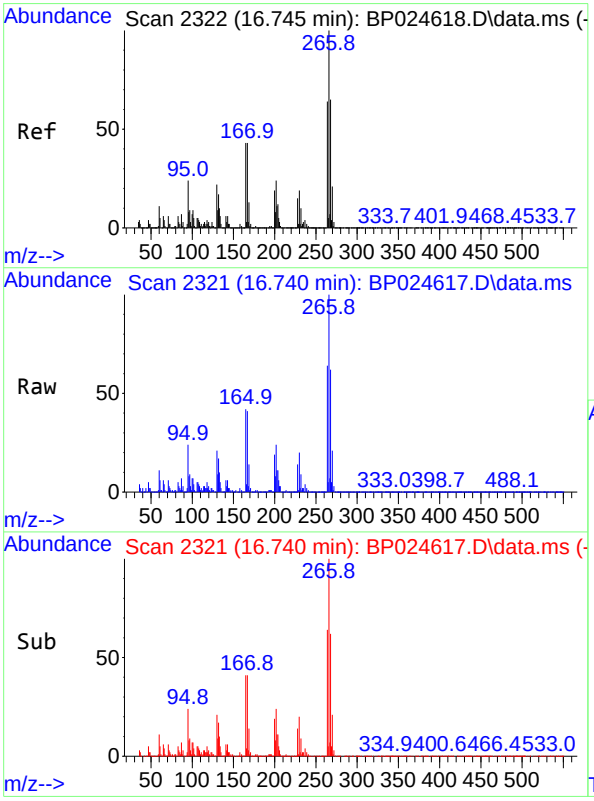
Ion	Ratio	Lower	Upper
200	100		
173	26.7	5.9	45.9
215	47.5	28.3	68.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

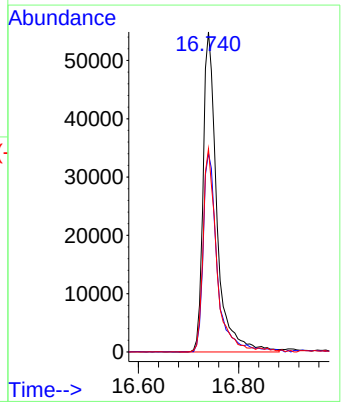
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

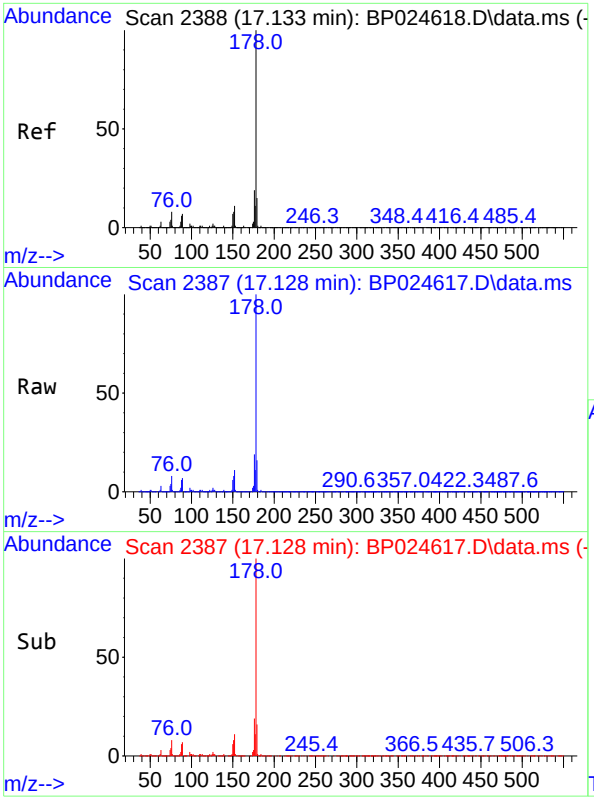


#70
Pentachlorophenol
Concen: 19.36 ng
RT: 16.740 min Scan# 2321
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:266 Resp: 104916

Ion	Ratio	Lower	Upper
266	100		
268	62.1	52.2	78.4
264	63.5	51.1	76.7

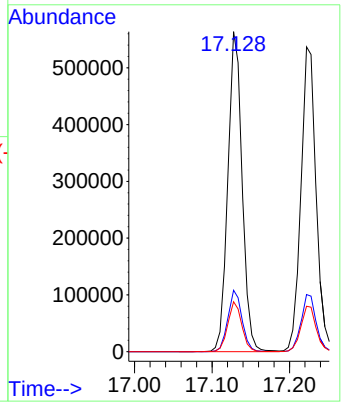




#71
Phenanthrene
Concen: 20.24 ng
RT: 17.128 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:178 Resp: 72492

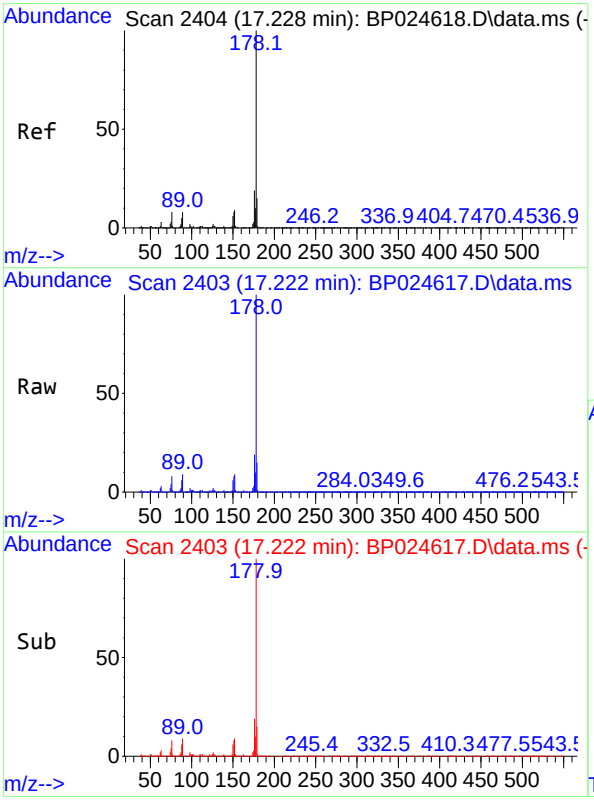
Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.6	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

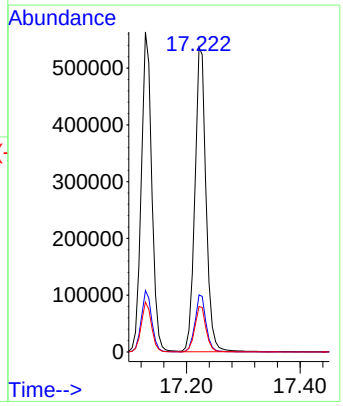
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

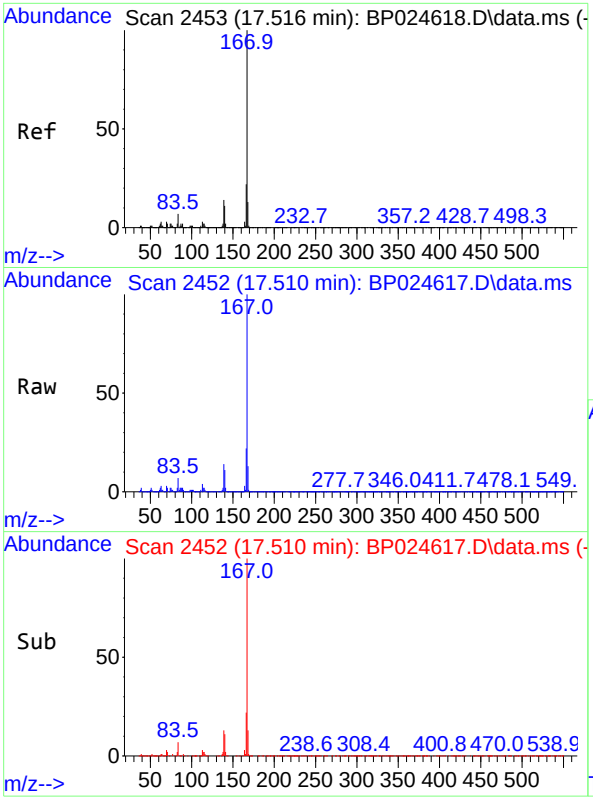


#72
Anthracene
Concen: 20.42 ng
RT: 17.222 min Scan# 2403
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:178 Resp: 735787

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	14.9	12.2	18.2

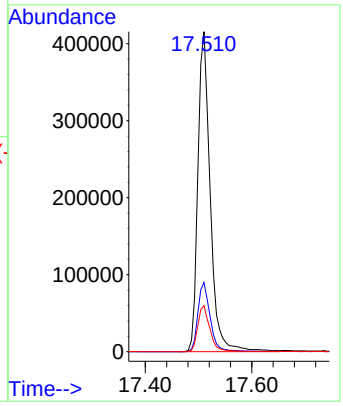




#73
Carbazole
Concen: 20.53 ng
RT: 17.510 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:167 Resp: 66973

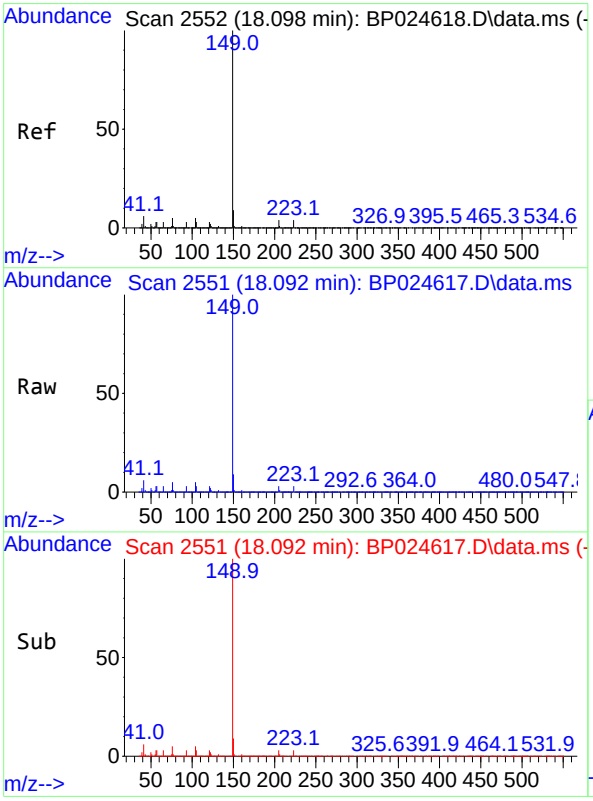
Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.7	26.5
139	14.4	11.3	16.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

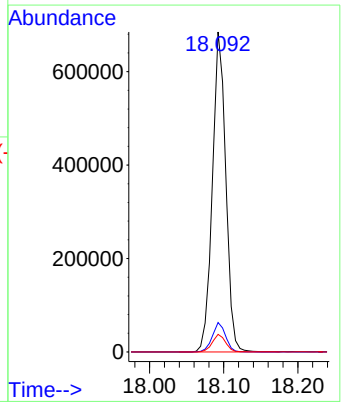
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

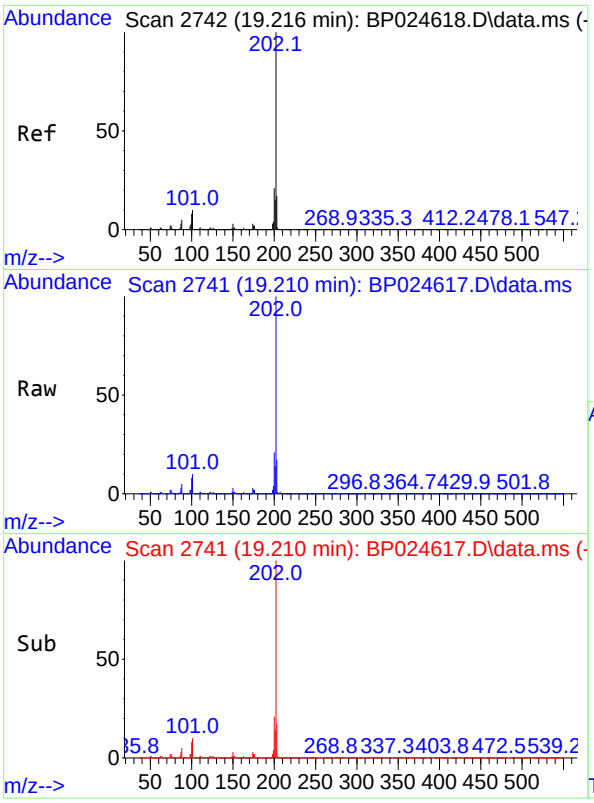


#74
Di-n-butylphthalate
Concen: 20.46 ng
RT: 18.092 min Scan# 2551
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:149 Resp: 858522

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	5.5	4.3	6.5

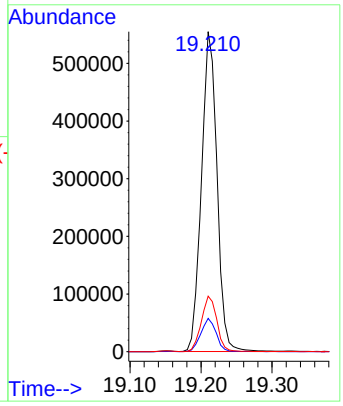




#75
Fluoranthene
Concen: 20.22 ng
RT: 19.210 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:202 Resp: 84668

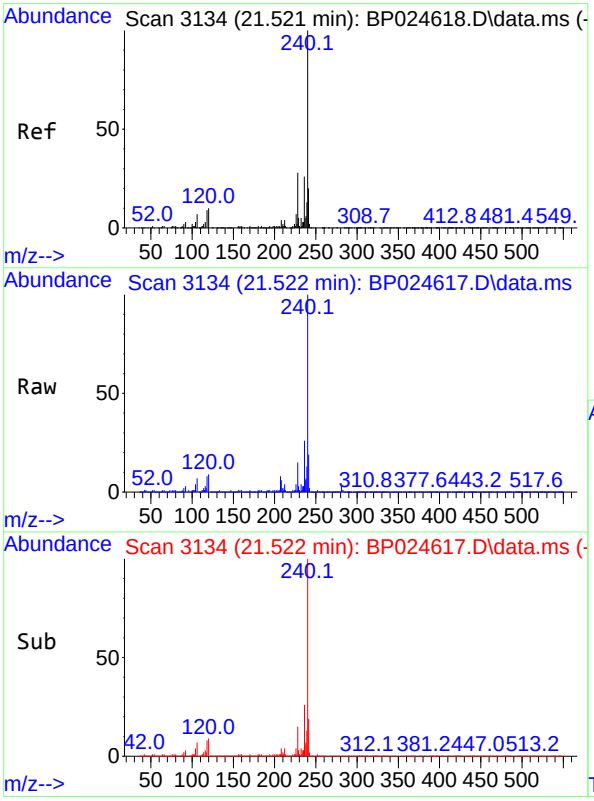
Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	30.3
203	17.3	0.0	37.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

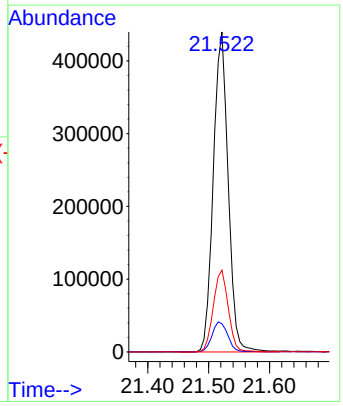
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

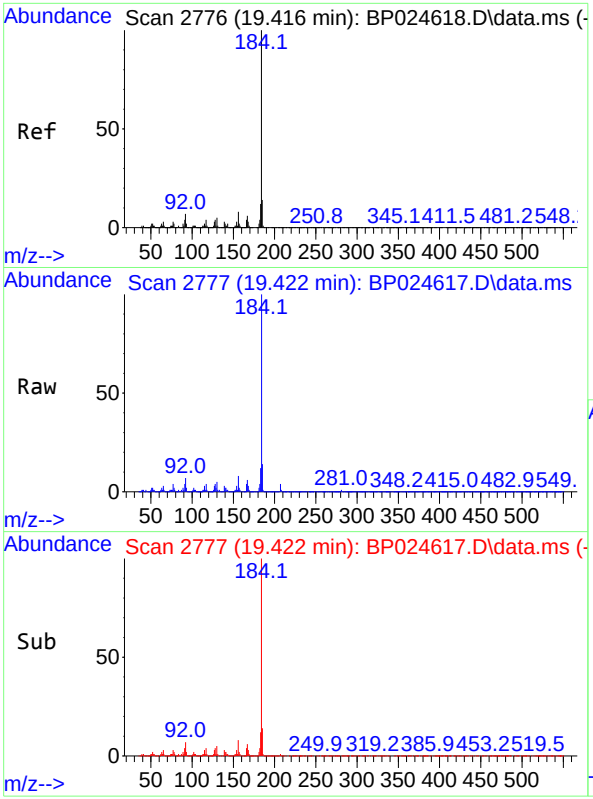


#76
Chrysene-d12
Concen: 20.00 ng
RT: 21.522 min Scan# 3134
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:240 Resp: 745224

Ion	Ratio	Lower	Upper
240	100		
120	8.8	7.8	11.6
236	25.5	20.6	31.0

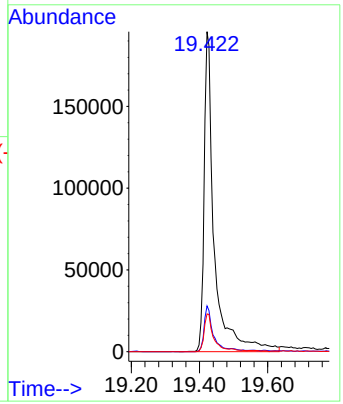




#77
Benzidine
Concen: 19.79 ng
RT: 19.422 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:184 Resp: 40489

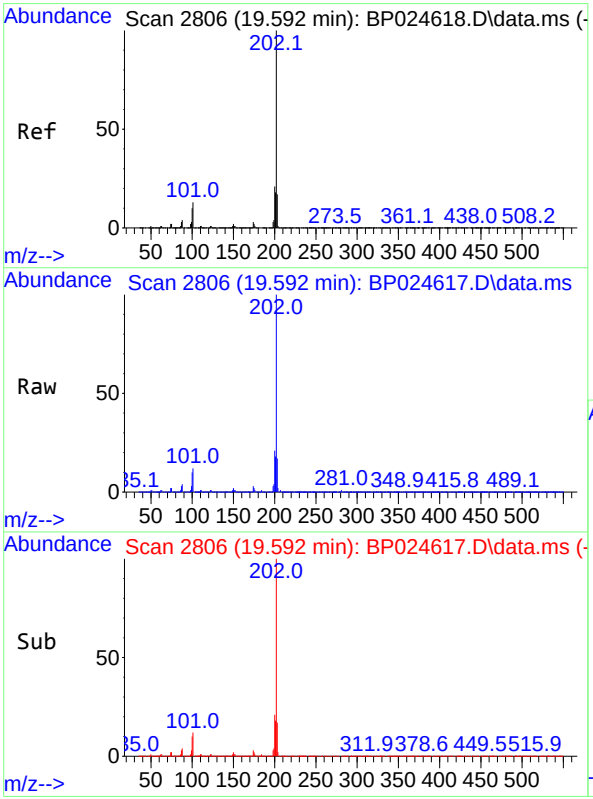
Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.2	16.8
183	11.8	9.8	14.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

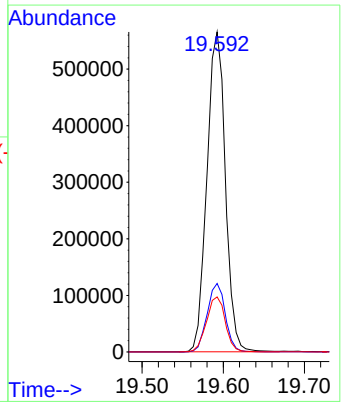
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

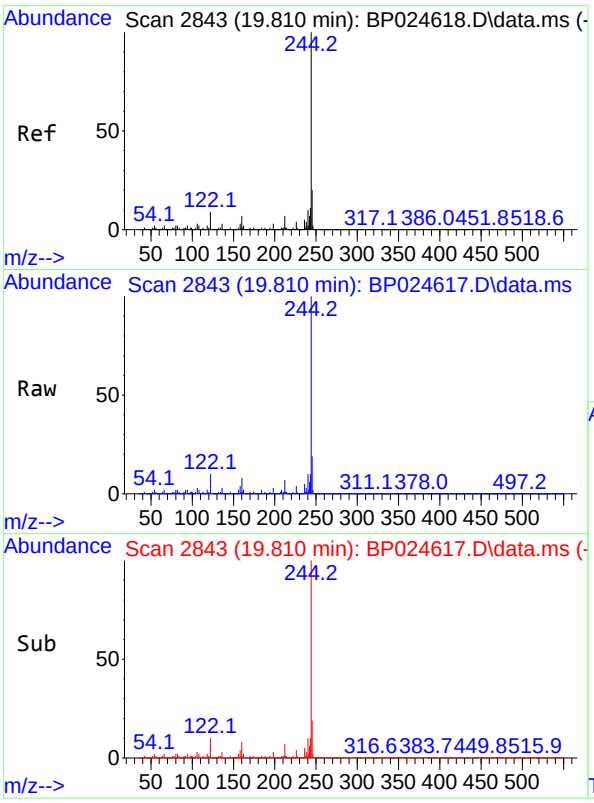


#78
Pyrene
Concen: 19.98 ng
RT: 19.592 min Scan# 2806
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:202 Resp: 892037

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.9	25.3
203	17.2	13.9	20.9

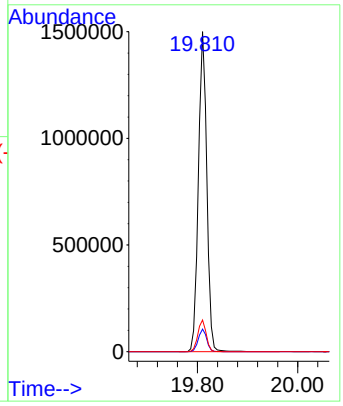




#79
Terphenyl-d14
Concen: 39.96 ng
RT: 19.810 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:244 Resp: 173687

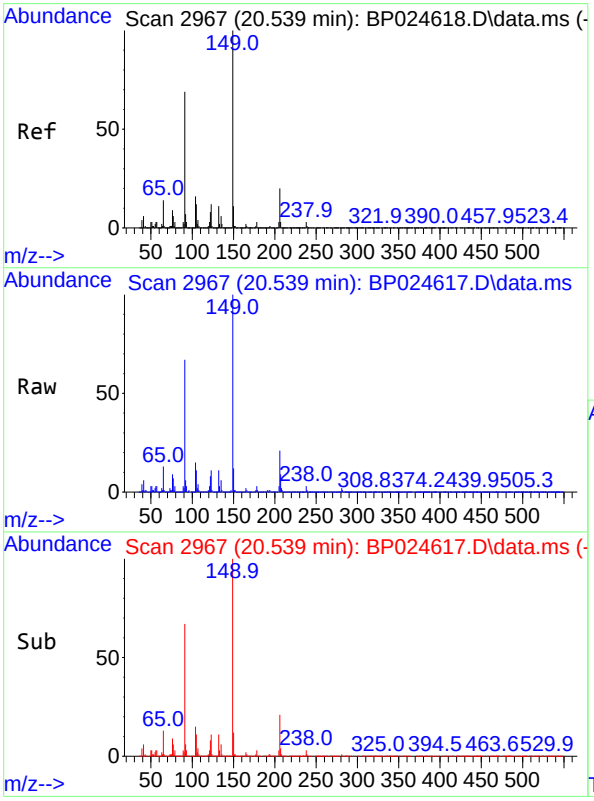
Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.5	8.3
122	9.9	7.4	11.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

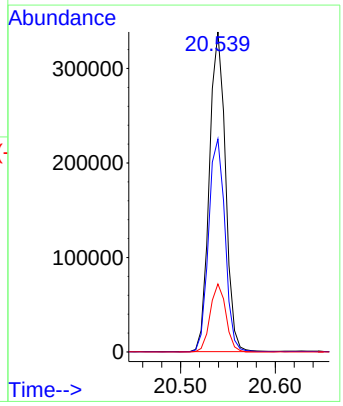
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

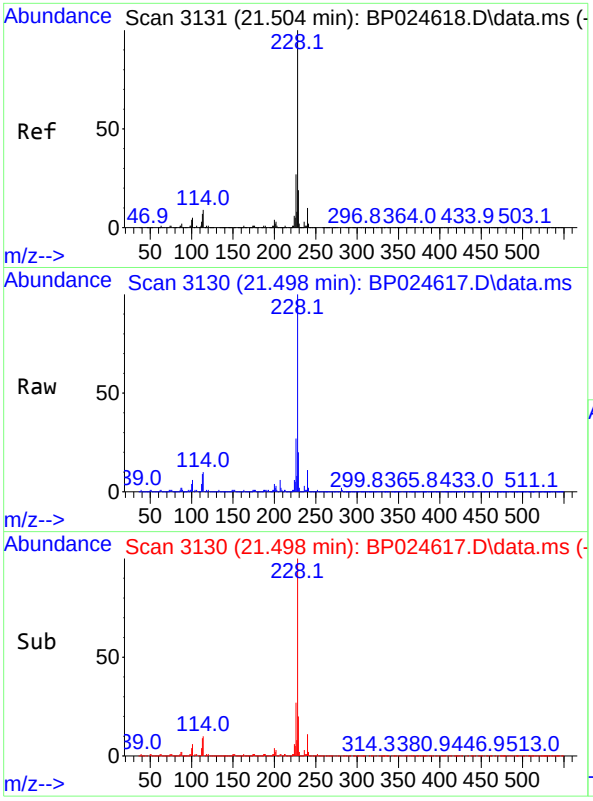


#80
Butylbenzylphthalate
Concen: 20.14 ng
RT: 20.539 min Scan# 2967
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:149 Resp: 400050

Ion	Ratio	Lower	Upper
149	100		
91	66.6	55.4	83.0
206	21.3	16.2	24.2

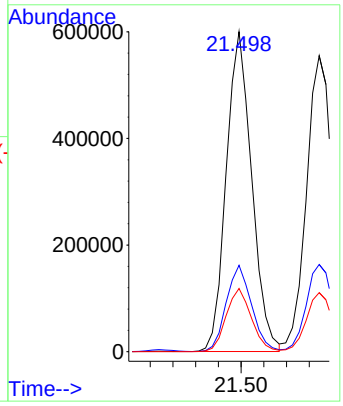




#81
Benzo(a)anthracene
Concen: 19.95 ng
RT: 21.498 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:228 Resp: 93361

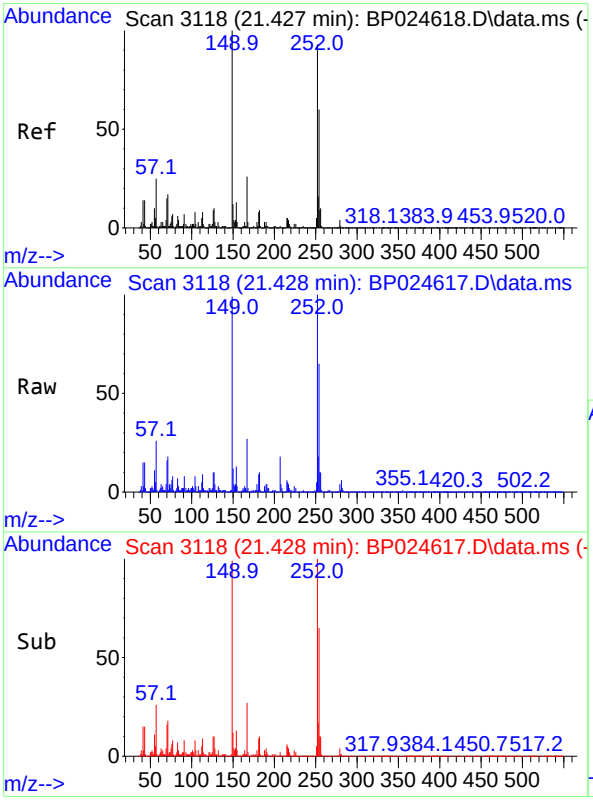
Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.4	32.0
229	19.7	15.5	23.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

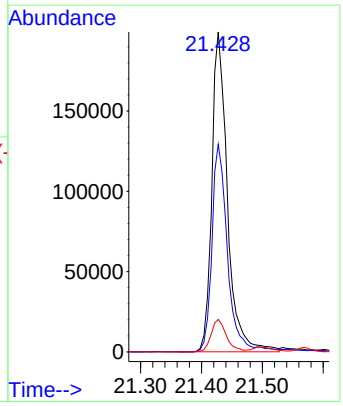
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

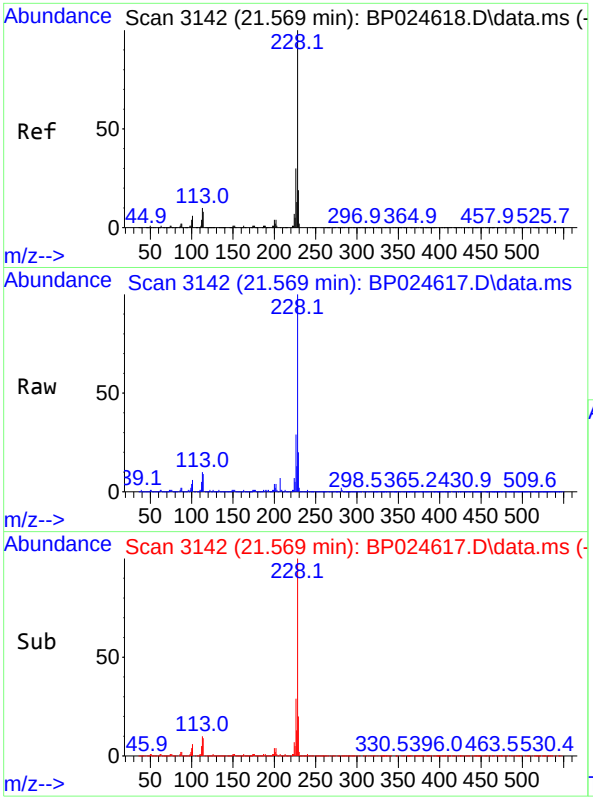


#82
3,3'-Dichlorobenzidine
Concen: 20.31 ng
RT: 21.428 min Scan# 3118
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:252 Resp: 353000

Ion	Ratio	Lower	Upper
252	100		
254	64.9	51.8	77.6
126	10.1	7.7	11.5

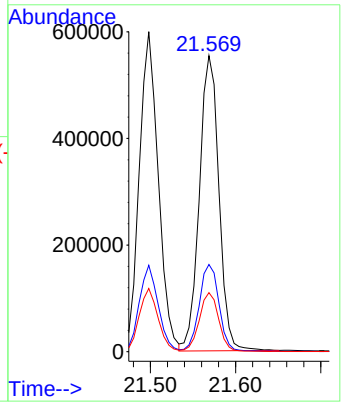




#83
Chrysene
Concen: 19.91 ng
RT: 21.569 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:228 Resp: 88300

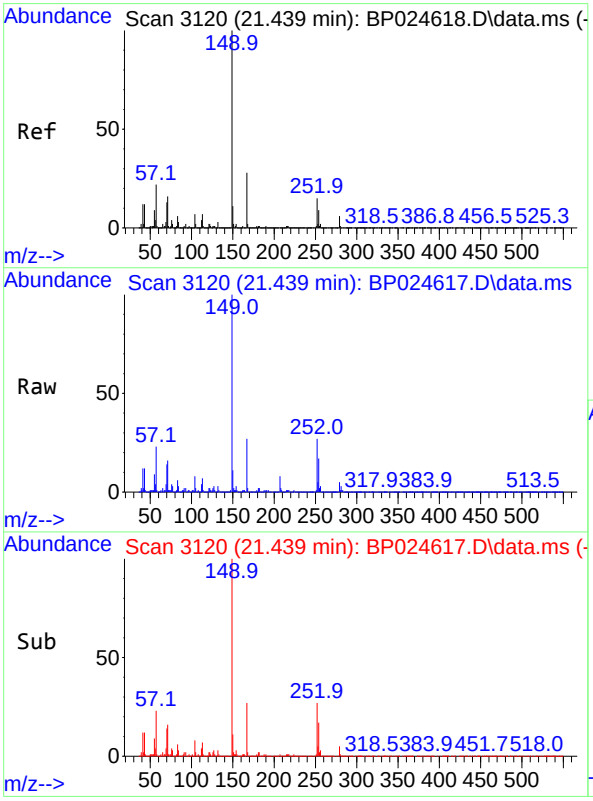
Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.9	35.9
229	20.0	15.5	23.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

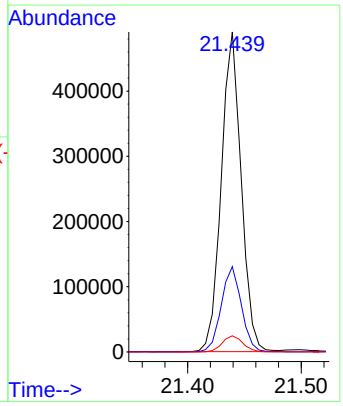
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

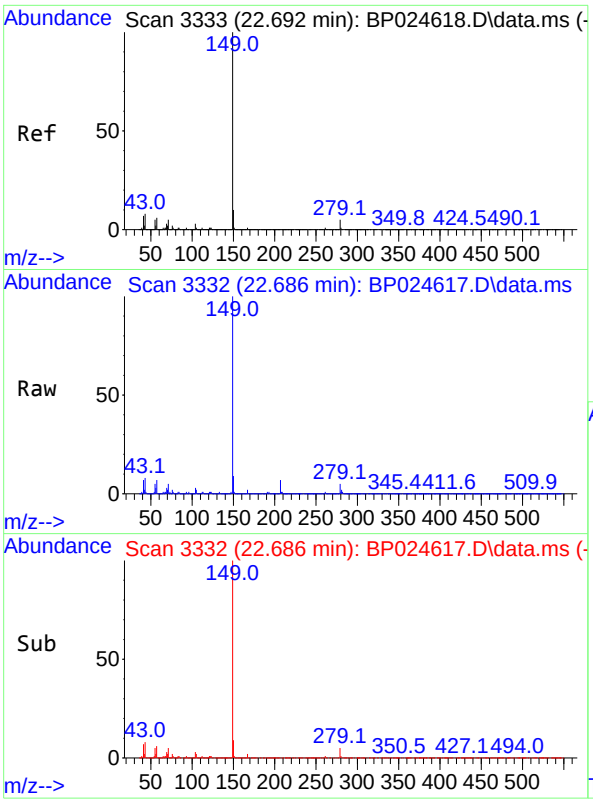


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.45 ng
RT: 21.439 min Scan# 3120
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:149 Resp: 597012

Ion	Ratio	Lower	Upper
149	100		
167	26.6	22.1	33.1
279	5.0	4.6	6.8





#85
Di-n-octyl phthalate
Concen: 19.85 ng
RT: 22.686 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

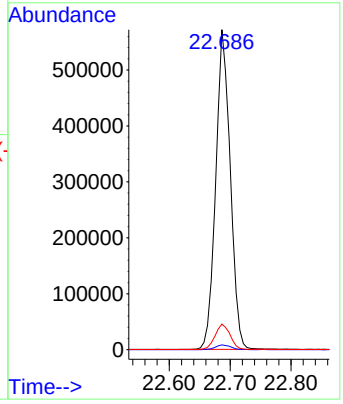
Tgt Ion:149 Resp: 94757

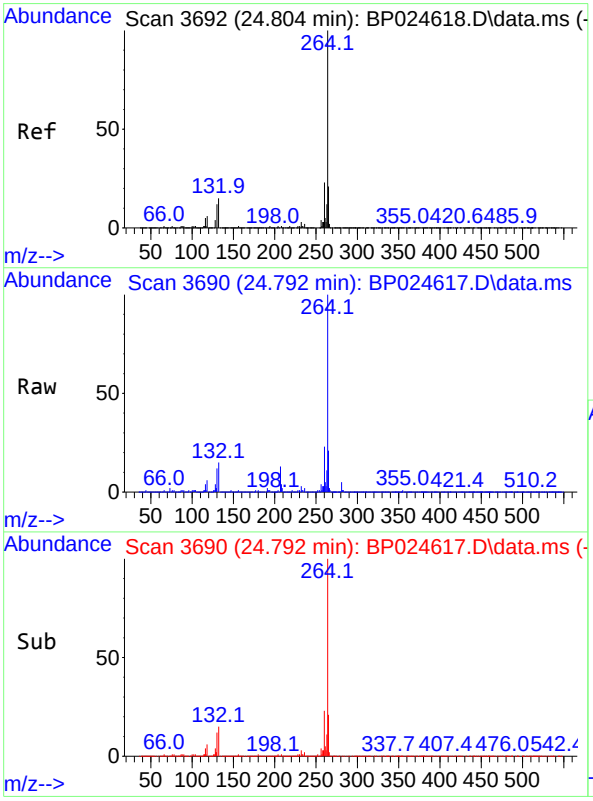
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	8.3	6.3	9.5

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

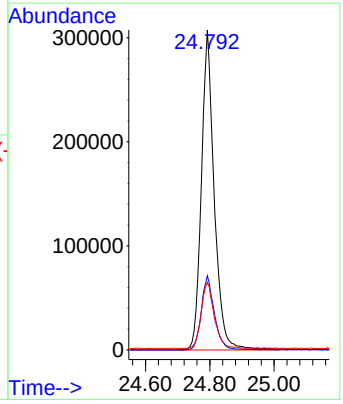


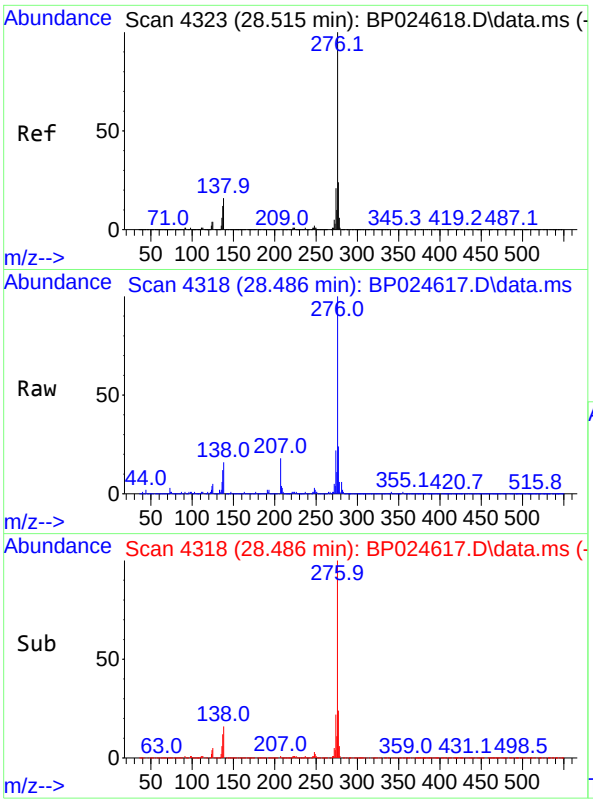


#86
Perylene-d12
Concen: 20.00 ng
RT: 24.792 min Scan# 3690
Delta R.T. -0.012 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:264 Resp: 850264

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.7	28.1
265	21.2	17.0	25.6

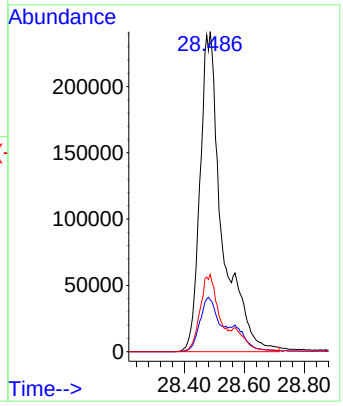




#87
Indeno(1,2,3-cd)pyrene
Concen: 19.81 ng m
RT: 28.486 min Scan# 4
Delta R.T. -0.029 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:276 Resp: 123012

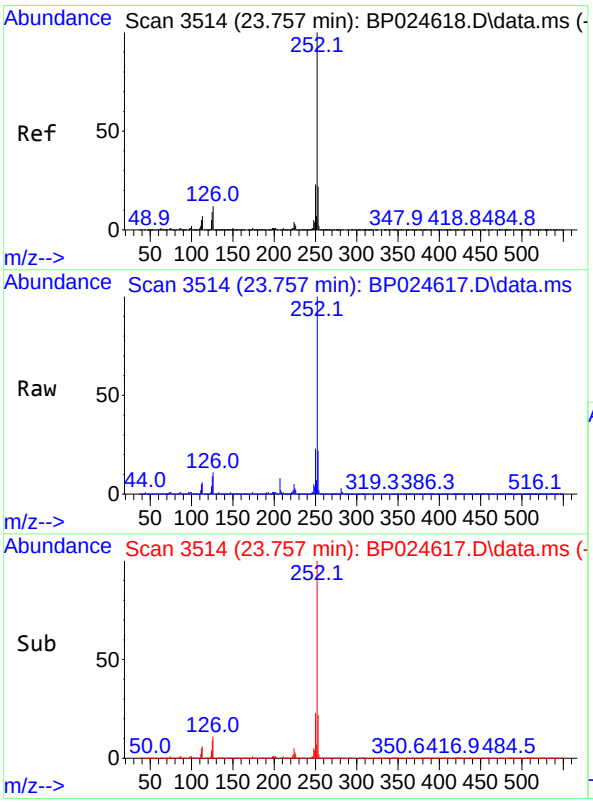
Ion	Ratio	Lower	Upper
276	100		
138	15.2	11.2	16.8
277	20.9	15.7	23.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

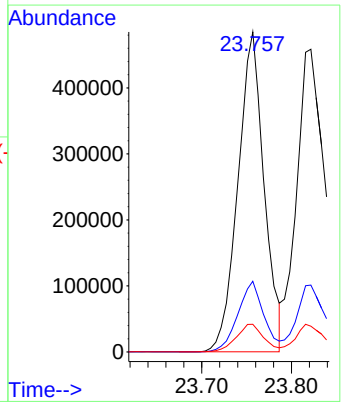
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

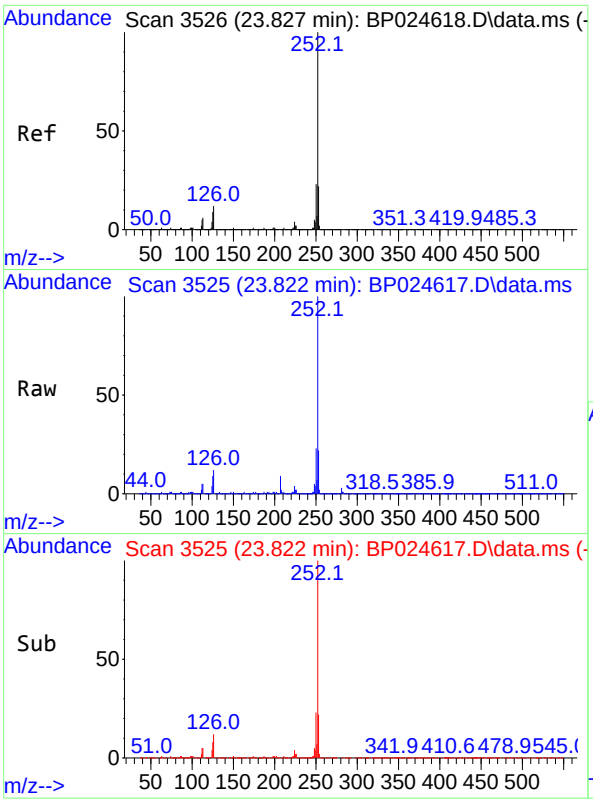


#88
Benzo(b)fluoranthene
Concen: 20.13 ng
RT: 23.757 min Scan# 3514
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:252 Resp: 979873

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	8.7	7.5	11.3

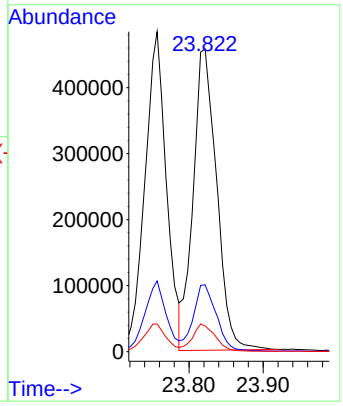




#89
Benzo(k)fluoranthene
Concen: 20.05 ng
RT: 23.822 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:252 Resp: 100534

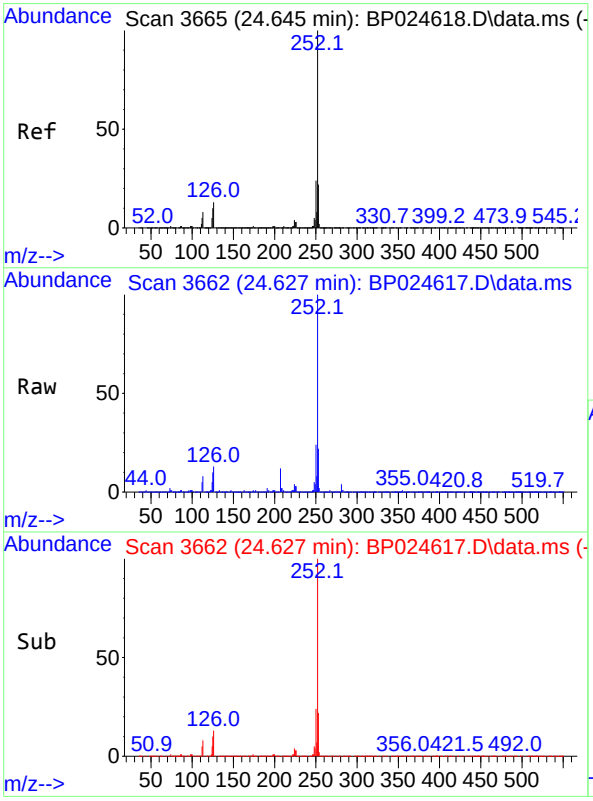
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	8.5	7.0	10.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

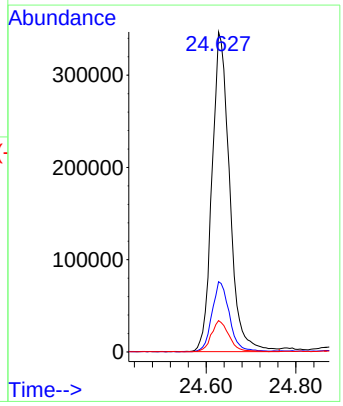
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

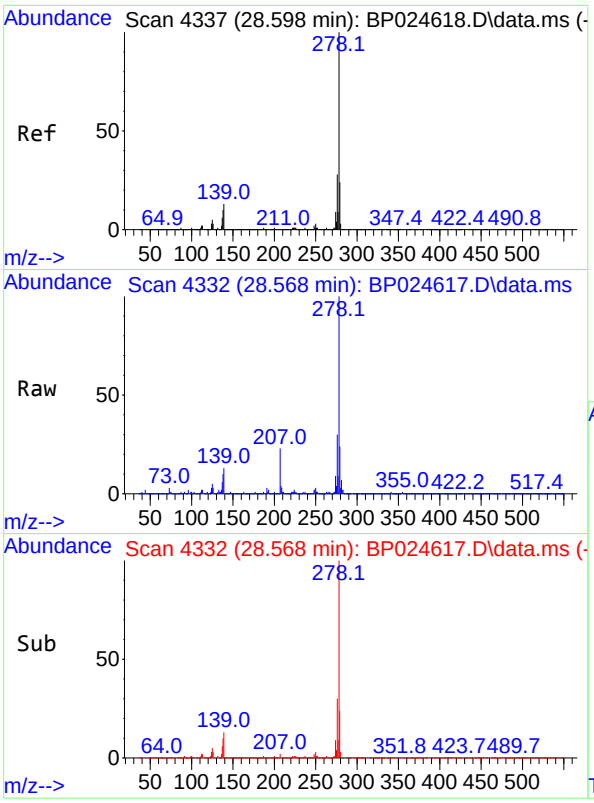


#90
Benzo(a)pyrene
Concen: 20.23 ng
RT: 24.627 min Scan# 3662
Delta R.T. -0.017 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:252 Resp: 945764

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	9.8	8.1	12.1

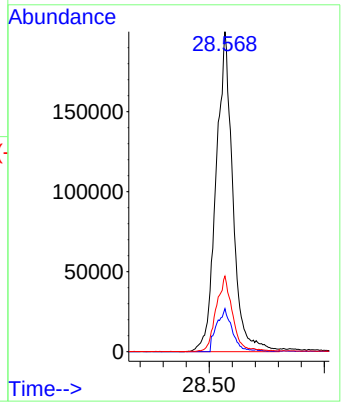




#91
Dibenzo(a,h)anthracene
Concen: 19.97 ng
RT: 28.568 min Scan# 4
Delta R.T. -0.029 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:278 Resp: 100828

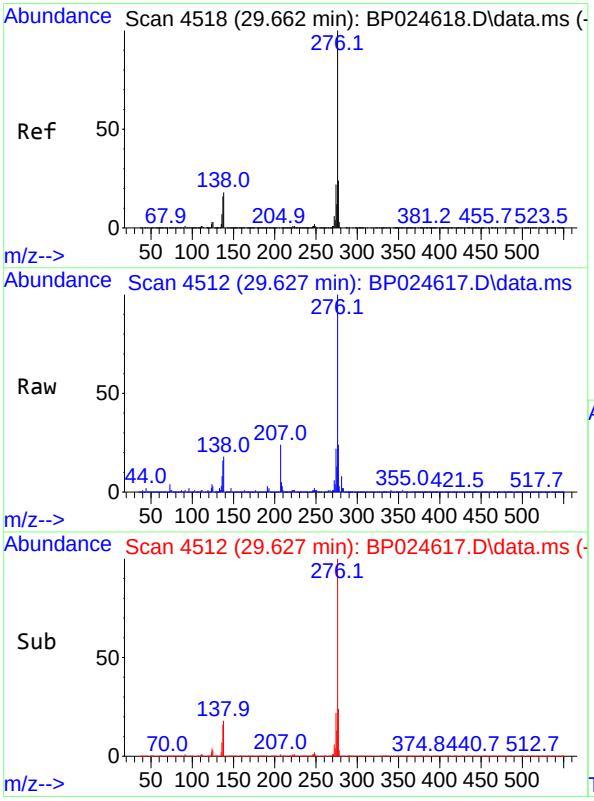
Ion	Ratio	Lower	Upper
278	100		
139	13.5	10.2	15.4
279	23.6	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

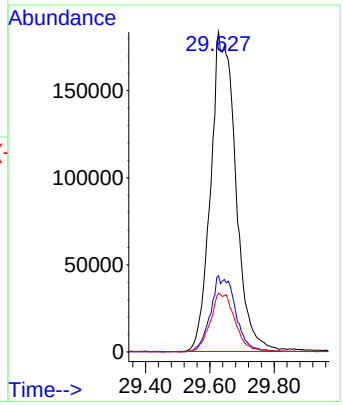
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025



#92
Benzo(g,h,i)perylene
Concen: 19.75 ng
RT: 29.627 min Scan# 4512
Delta R.T. -0.035 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:276 Resp: 991852

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.4
138	18.4	14.4	21.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024618.D
Acq On : 13 May 2025 13:24
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:06:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.663	152	120950	20.00	ng	0.00
21) Naphthalene-d8	10.434	136	540452	20.00	ng	0.00
39) Acenaphthene-d10	14.304	164	362458	20.00	ng	0.00
64) Phenanthrene-d10	17.098	188	717362	20.00	ng	0.00
76) Chrysene-d12	21.521	240	810498	20.00	ng	0.00
86) Perylene-d12	24.804	264	929890	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	534477	75.58	ng	0.00
7) Phenol-d6	6.852	99	712342	78.93	ng	0.00
23) Nitrobenzene-d5	8.810	82	826567	77.28	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	467808	76.13	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	2076354	75.05	ng	0.00
79) Terphenyl-d14	19.810	244	3647961	77.18	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.228	88	122181	36.79	ng	100
3) Pyridine	3.622	79	289809	39.36	ng	100
4) n-Nitrosodimethylamine	3.534	42	125087	38.48	ng	100
6) Aniline	7.005	93	463675	39.79	ng	100
8) 2-Chlorophenol	7.240	128	315079	39.25	ng	100
9) Benzaldehyde	6.822	77	231076m	39.62	ng	
10) Phenol	6.881	94	364948	39.18	ng	100
11) bis(2-Chloroethyl)ether	7.099	93	293331	38.32	ng	100
12) 1,3-Dichlorobenzene	7.552	146	348242	37.71	ng	100
13) 1,4-Dichlorobenzene	7.699	146	355533	38.27	ng	100
14) 1,2-Dichlorobenzene	8.010	146	344980	38.11	ng	100
15) Benzyl Alcohol	7.905	79	277892	40.52	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.187	45	354872	38.71	ng	100
17) 2-Methylphenol	8.110	107	265962	39.81	ng	100
18) Hexachloroethane	8.728	117	133224	37.43	ng	100
19) n-Nitroso-di-n-propyla...	8.457	70	253553	40.61	ng	100
20) 3+4-Methylphenols	8.434	107	366564	40.33	ng	100
22) Acetophenone	8.475	105	521603	38.64	ng	100
24) Nitrobenzene	8.852	77	363767	38.65	ng	100
25) Isophorone	9.375	82	727081	39.19	ng	100
26) 2-Nitrophenol	9.563	139	185587	40.24	ng	100
27) 2,4-Dimethylphenol	9.628	122	322227	39.62	ng	100
28) bis(2-Chloroethoxy)met...	9.851	93	430958	38.88	ng	100
29) 2,4-Dichlorophenol	10.093	162	314830	39.95	ng	100
30) 1,2,4-Trichlorobenzene	10.299	180	330659	37.23	ng	100
31) Naphthalene	10.481	128	1059316	37.82	ng	100
32) Benzoic acid	9.775	122	206829m	38.01	ng	
33) 4-Chloroaniline	10.599	127	452150	40.01	ng	100
34) Hexachlorobutadiene	10.763	225	213978	37.19	ng	100
35) Caprolactam	11.387	113	118047	41.43	ng	100
36) 4-Chloro-3-methylphenol	11.734	107	385077	40.07	ng	100
37) 2-Methylnaphthalene	12.093	142	692133	38.17	ng	100
38) 1-Methylnaphthalene	12.316	142	745849	38.44	ng	100
40) 1,2,4,5-Tetrachloroben...	12.469	216	398230	37.84	ng	100
41) Hexachlorocyclopentadiene	12.445	237	258329	40.48	ng	100
43) 2,4,6-Trichlorophenol	12.716	196	268675	39.41	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024618.D
Acq On : 13 May 2025 13:24
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:06:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	293079	38.62	ng	100
46) 1,1'-Biphenyl	13.116	154	1002344	37.42	ng	100
47) 2-Chloronaphthalene	13.157	162	771952	37.79	ng	100
48) 2-Nitroaniline	13.375	65	242485	40.10	ng	100
49) Acenaphthylene	14.016	152	1307740	38.26	ng	100
50) Dimethylphthalate	13.757	163	1051056	38.04	ng	100
51) 2,6-Dinitrotoluene	13.881	165	226086	38.75	ng	100
52) Acenaphthene	14.363	154	745335	37.93	ng	100
53) 3-Nitroaniline	14.216	138	246561	41.39	ng	100
54) 2,4-Dinitrophenol	14.428	184	124517	37.54	ng	100
55) Dibenzofuran	14.698	168	1183806	37.77	ng	100
56) 4-Nitrophenol	14.551	139	186112	38.41	ng	100
57) 2,4-Dinitrotoluene	14.681	165	329156	40.02	ng	100
58) Fluorene	15.357	166	968487	37.89	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.939	232	274384	38.98	ng	100
60) Diethylphthalate	15.139	149	1046478	37.48	ng	100
61) 4-Chlorophenyl-phenyle...	15.357	204	475327	37.29	ng	100
62) 4-Nitroaniline	15.392	138	239212	41.24	ng	100
63) Azobenzene	15.651	77	906274	37.94	ng	100
65) 4,6-Dinitro-2-methylph...	15.457	198	184593	39.84	ng	100
66) n-Nitrosodiphenylamine	15.581	169	851188	38.63	ng	100
67) 4-Bromophenyl-phenylether	16.263	248	323558	38.28	ng	100
68) Hexachlorobenzene	16.381	284	403916	37.60	ng	100
69) Atrazine	16.557	200	312226	38.67	ng	100
70) Pentachlorophenol	16.745	266	246828	40.91	ng	100
71) Phenanthrene	17.133	178	1507602	37.80	ng	100
72) Anthracene	17.228	178	1542275	38.44	ng	100
73) Carbazole	17.516	167	1436294	39.55	ng	100
74) Di-n-butylphthalate	18.098	149	1807097	38.69	ng	100
75) Fluoranthene	19.216	202	1794046	38.49	ng	100
77) Benzidine	19.416	184	907109	40.77	ng	100
78) Pyrene	19.592	202	1869519	38.50	ng	100
80) Butylbenzylphthalate	20.539	149	854913	39.58	ng	100
81) Benzo(a)anthracene	21.504	228	1957632	38.47	ng	100
82) 3,3'-Dichlorobenzidine	21.427	252	773866	40.94	ng	100
83) Chrysene	21.569	228	1833959	38.01	ng	100
84) Bis(2-ethylhexyl)phtha...	21.439	149	1240956	39.09	ng	100
85) Di-n-octyl phthalate	22.692	149	2074694	39.97	ng	100
87) Indeno(1,2,3-cd)pyrene	28.515	276	2648648	39.00	ng	100
88) Benzo(b)fluoranthene	23.757	252	2050806	38.53	ng	100
89) Benzo(k)fluoranthene	23.827	252	2120721	38.67	ng	100
90) Benzo(a)pyrene	24.645	252	1979017	38.71	ng	100
91) Dibenzo(a,h)anthracene	28.598	278	2170712	39.30	ng	100
92) Benzo(g,h,i)perylene	29.662	276	2132921	38.84	ng	100

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

ICAL Form

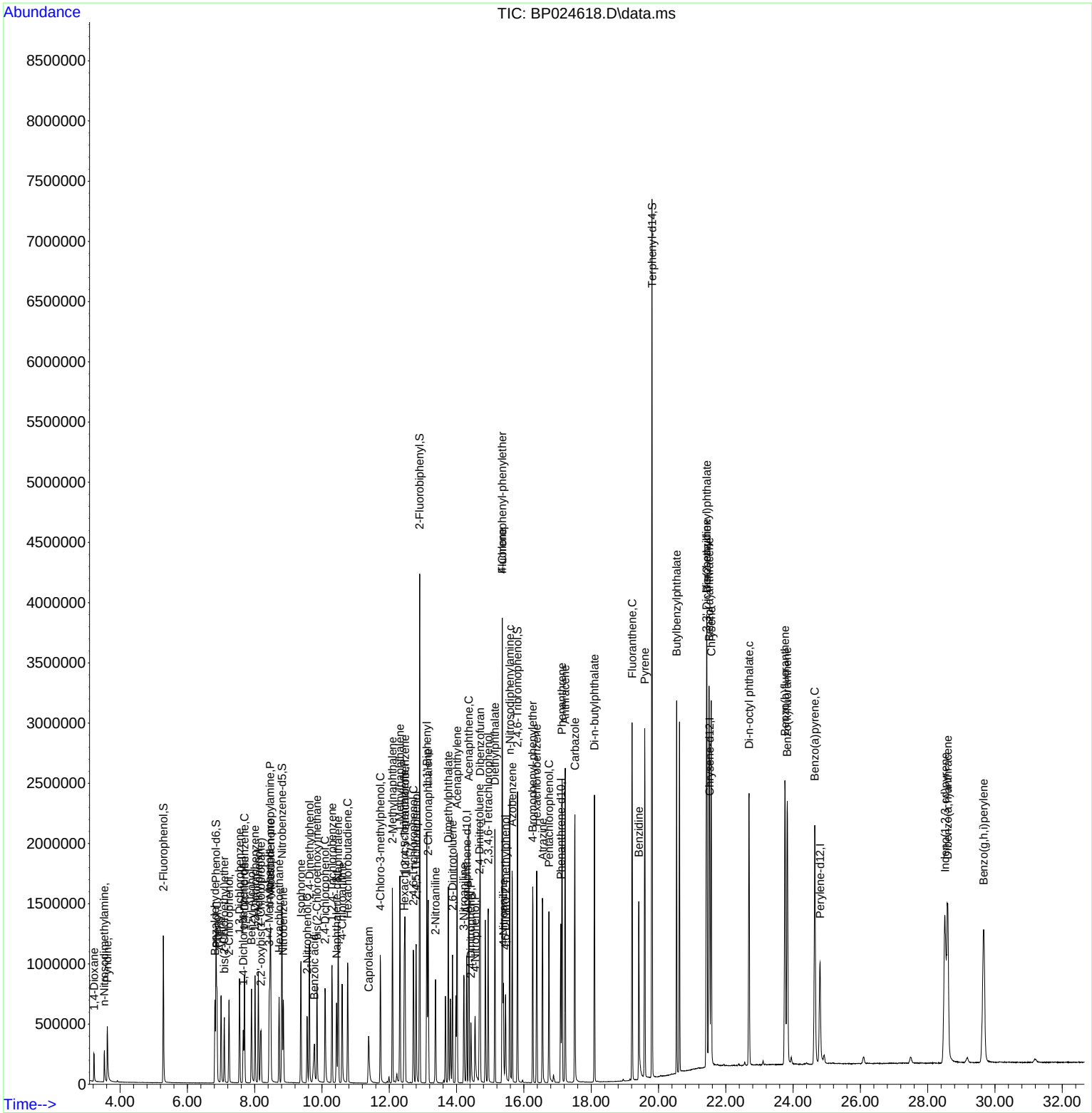
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024618.D
Acq On : 13 May 2025 13:24
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

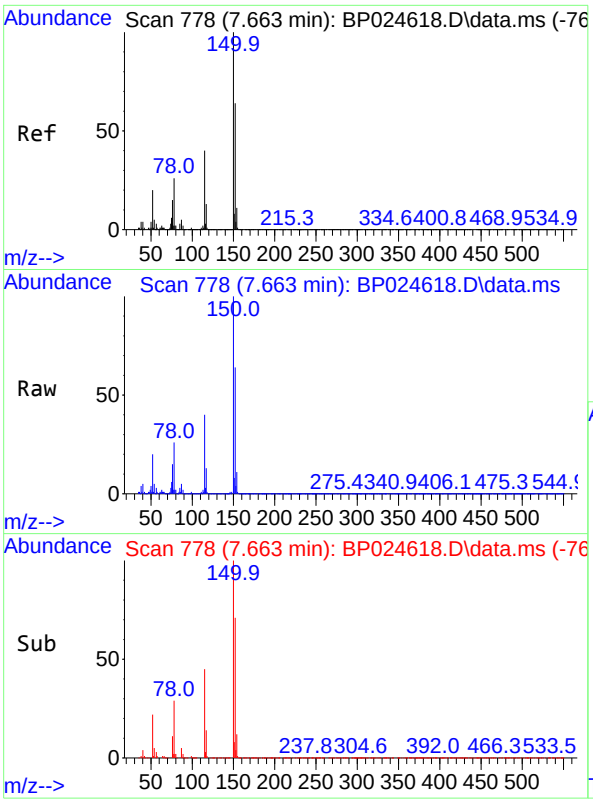
Quant Time: May 13 16:06:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

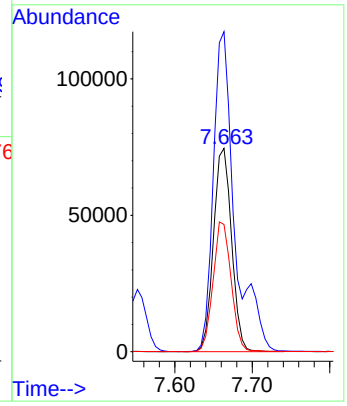




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.663 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:152 Resp: 12095

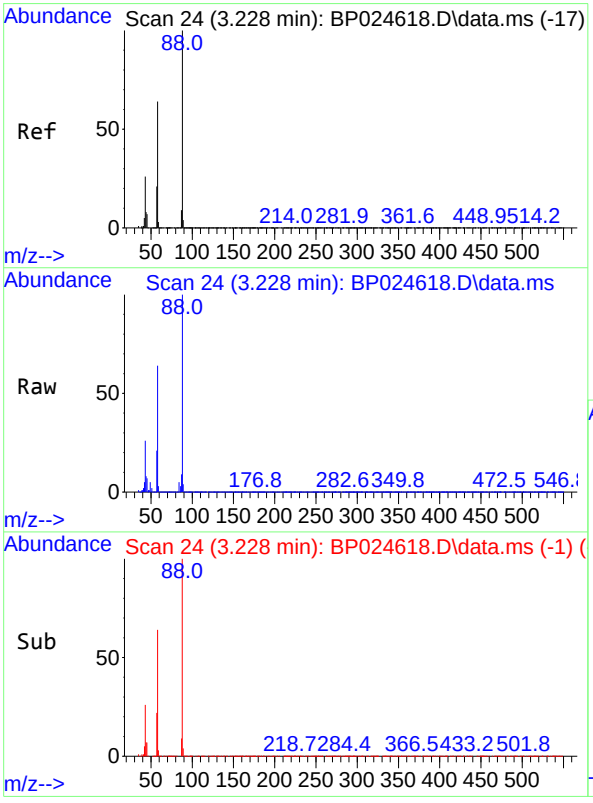
Ion	Ratio	Lower	Upper
152	100		
150	157.4	125.9	188.9
115	62.6	50.1	75.1



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

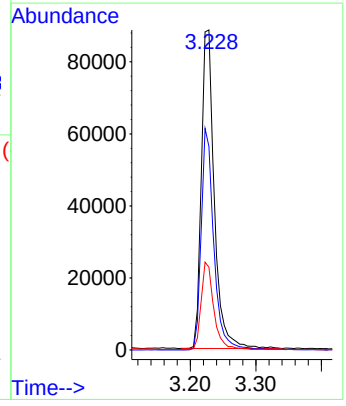
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

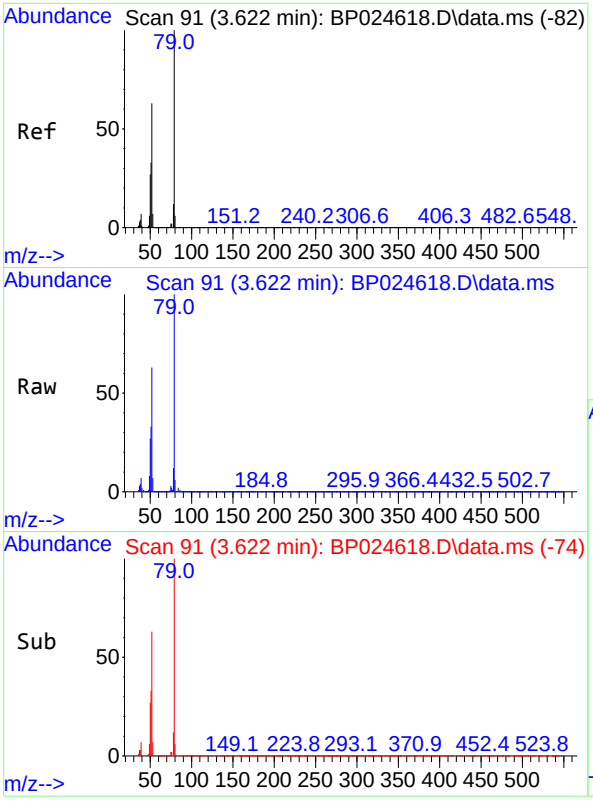


#2
1,4-Dioxane
Concen: 36.79 ng
RT: 3.228 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 88 Resp: 122181

Ion	Ratio	Lower	Upper
88	100		
58	67.5	54.0	81.0
43	26.7	21.4	32.0

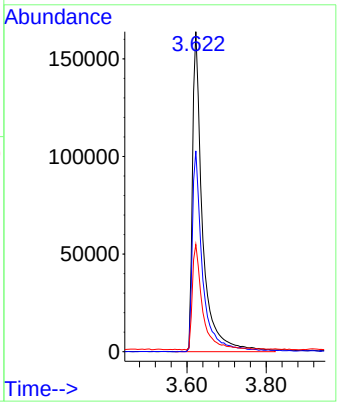




#3
Pyridine
Concen: 39.36 ng
RT: 3.622 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 79 Resp: 28980

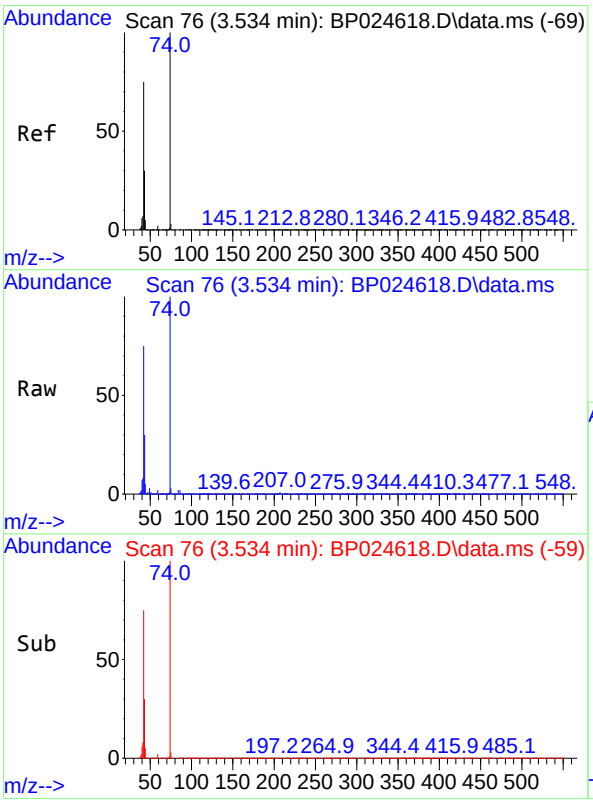
Ion	Ratio	Lower	Upper
79	100		
52	62.7	50.2	75.2
51	33.5	26.8	40.2



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

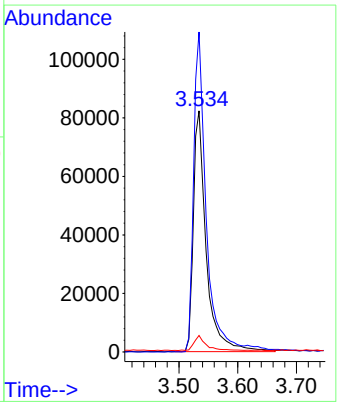
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

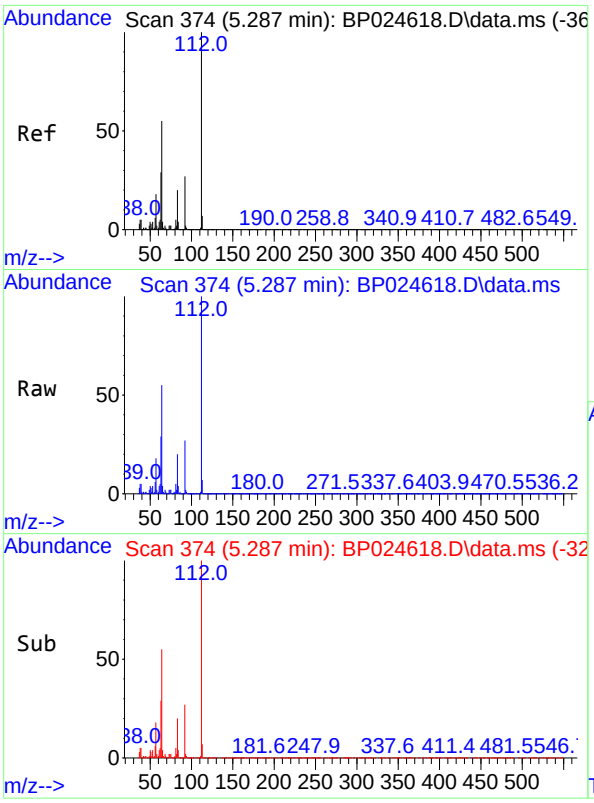


#4
n-Nitrosodimethylamine
Concen: 38.48 ng
RT: 3.534 min Scan# 76
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 42 Resp: 125087

Ion	Ratio	Lower	Upper
42	100		
74	132.7	106.2	159.2
44	6.8	5.4	8.2

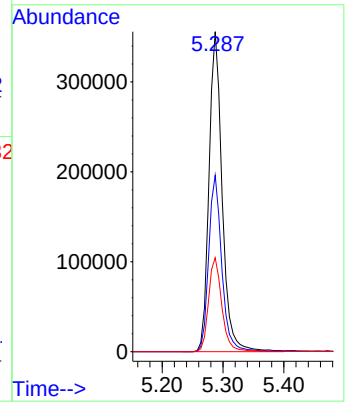




#5
2-Fluorophenol
Concen: 75.58 ng
RT: 5.287 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:112 Resp: 53447

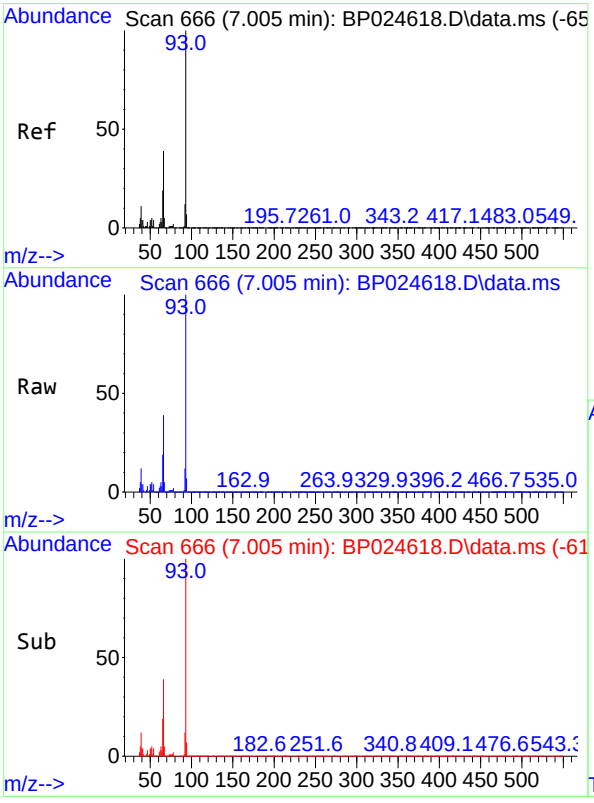
Ion	Ratio	Lower	Upper
112	100		
64	55.1	44.1	66.1
63	29.4	23.5	35.3



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

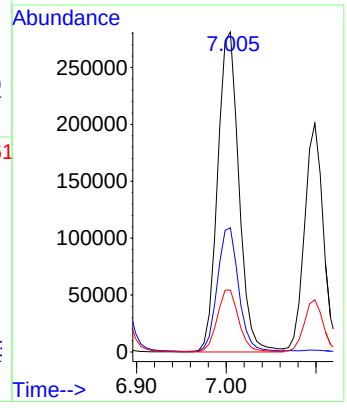
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

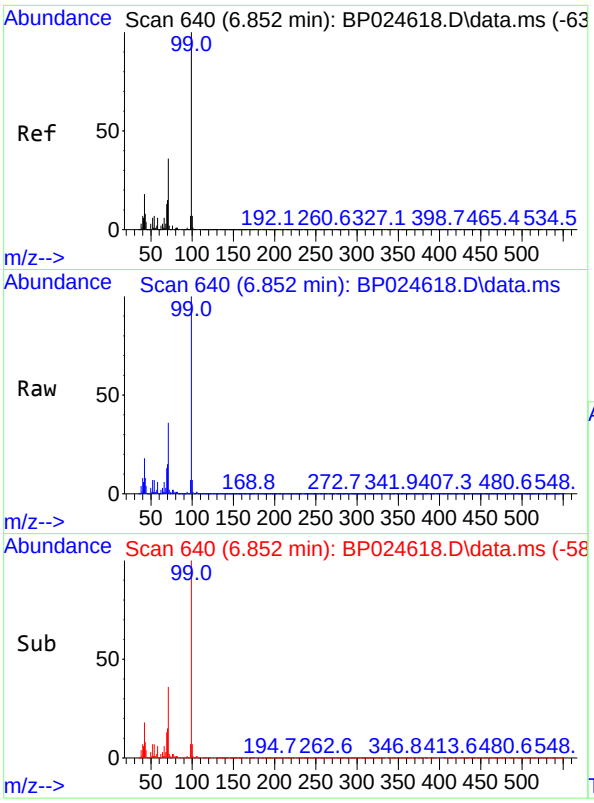


#6
Aniline
Concen: 39.79 ng
RT: 7.005 min Scan# 666
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 93 Resp: 463675

Ion	Ratio	Lower	Upper
93	100		
66	38.8	31.0	46.6
65	19.4	15.5	23.3

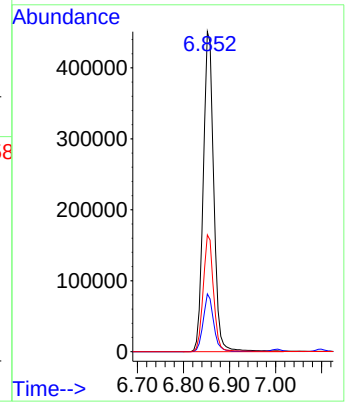




#7
Phenol-d6
Concen: 78.93 ng
RT: 6.852 min Scan# 64
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 99 Resp: 71234

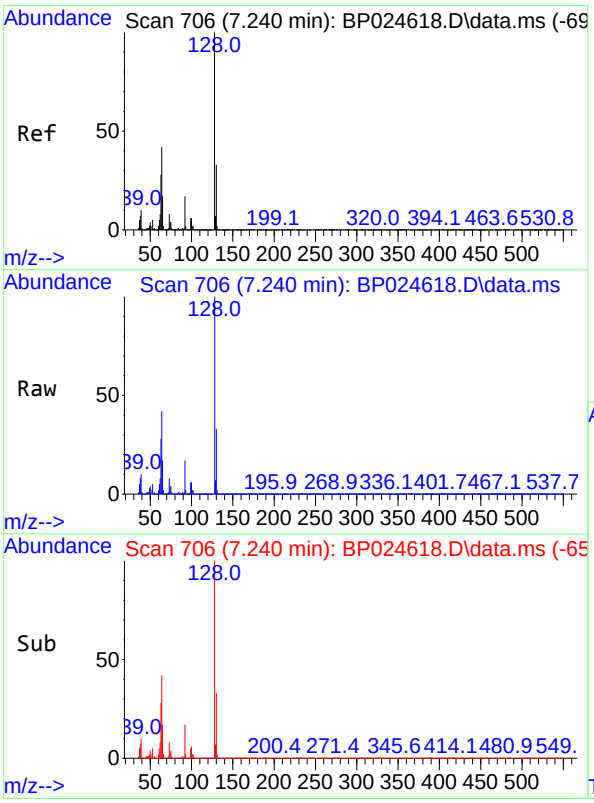
Ion	Ratio	Lower	Upper
99	100		
42	18.0	14.4	21.6
71	36.5	29.2	43.8



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

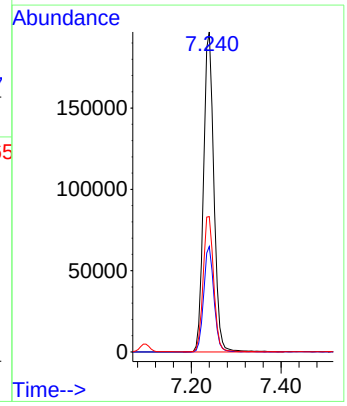
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

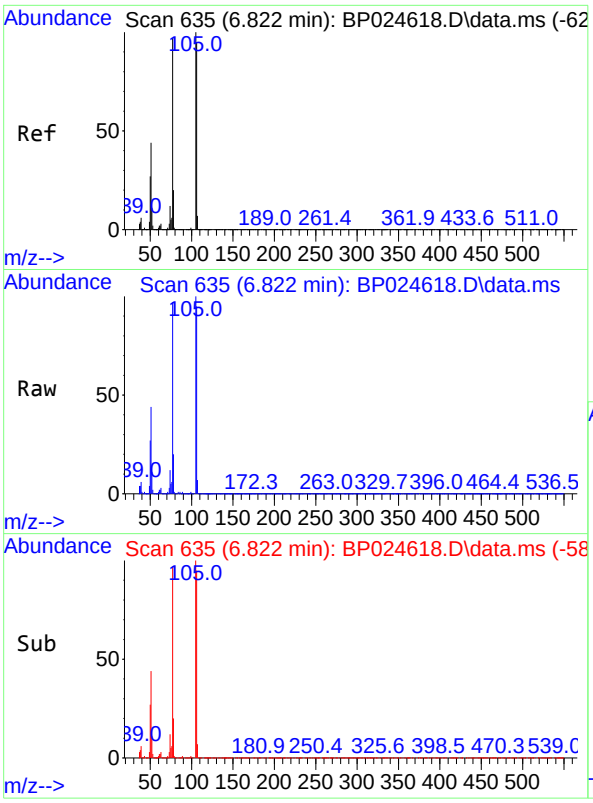


#8
2-Chlorophenol
Concen: 39.25 ng
RT: 7.240 min Scan# 706
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:128 Resp: 315079

Ion	Ratio	Lower	Upper
128	100		
130	33.0	13.0	53.0
64	42.3	22.3	62.3

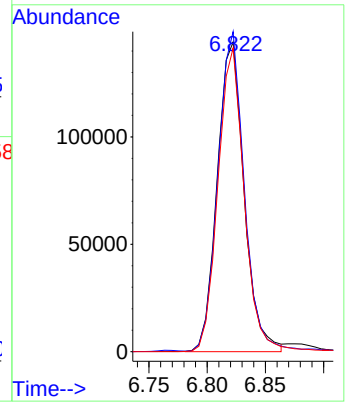




#9
Benzaldehyde
Concen: 39.62 ng m
RT: 6.822 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 77 Resp: 23107

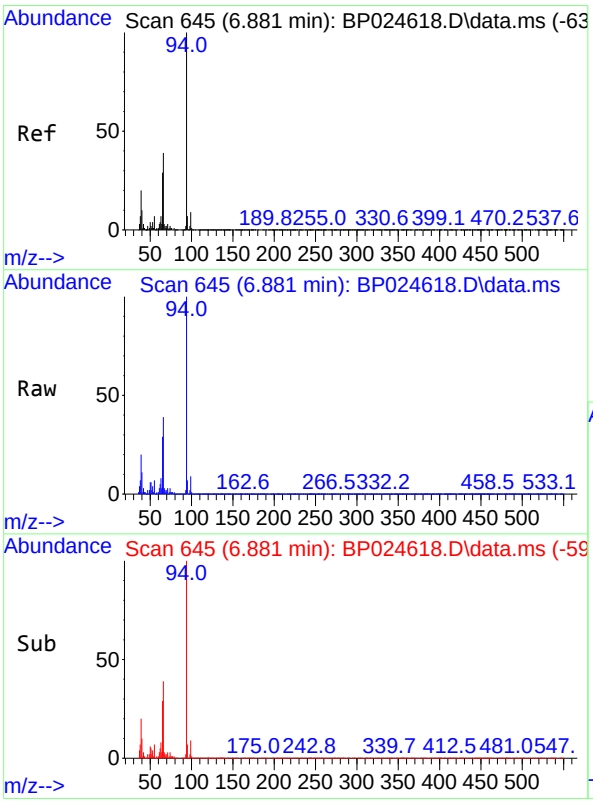
Ion	Ratio	Lower	Upper
77	100		
105	103.3	83.3	123.3
106	98.0	78.0	118.0



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

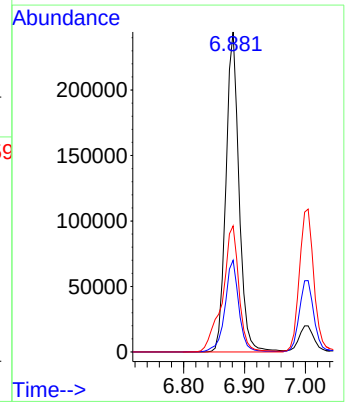
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

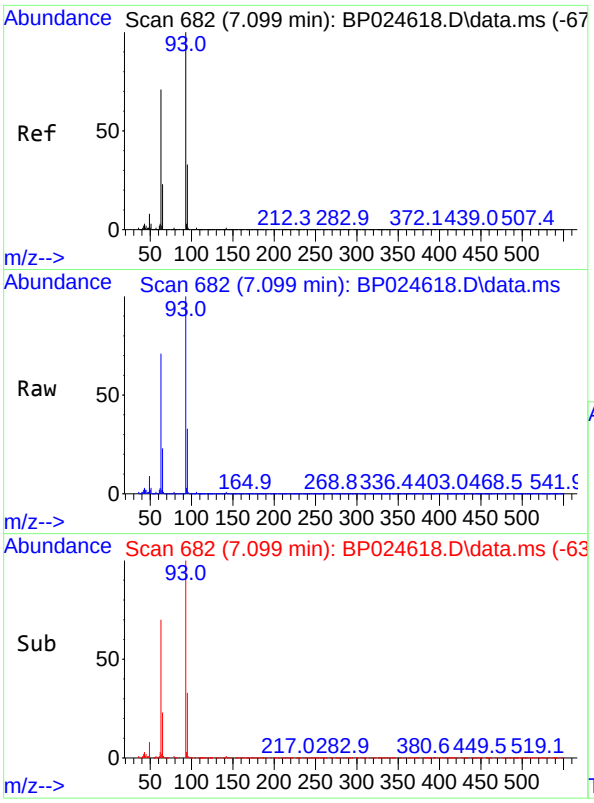


#10
Phenol
Concen: 39.18 ng
RT: 6.881 min Scan# 645
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 94 Resp: 364948

Ion	Ratio	Lower	Upper
94	100		
65	28.7	8.7	48.7
66	39.4	19.4	59.4

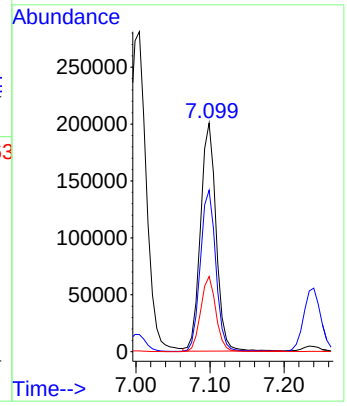




#11
bis(2-Chloroethyl)ether
Concen: 38.32 ng
RT: 7.099 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 93 Resp: 29333

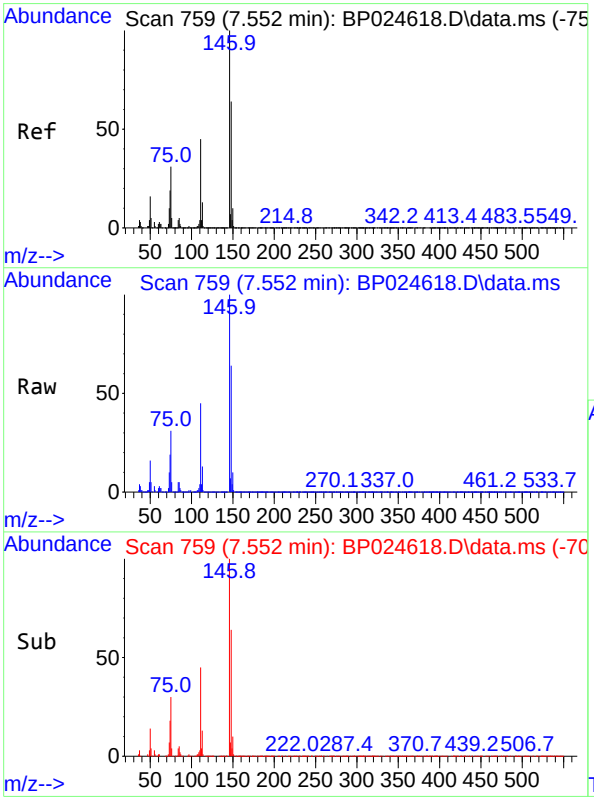
Ion	Ratio	Lower	Upper
93	100		
63	70.6	50.6	90.6
95	32.9	12.9	52.9



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

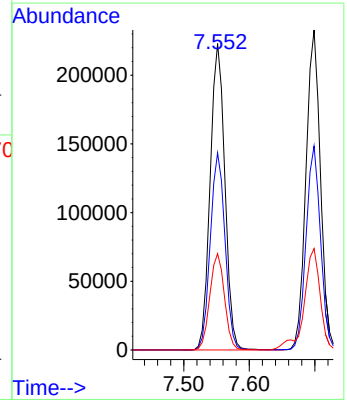
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

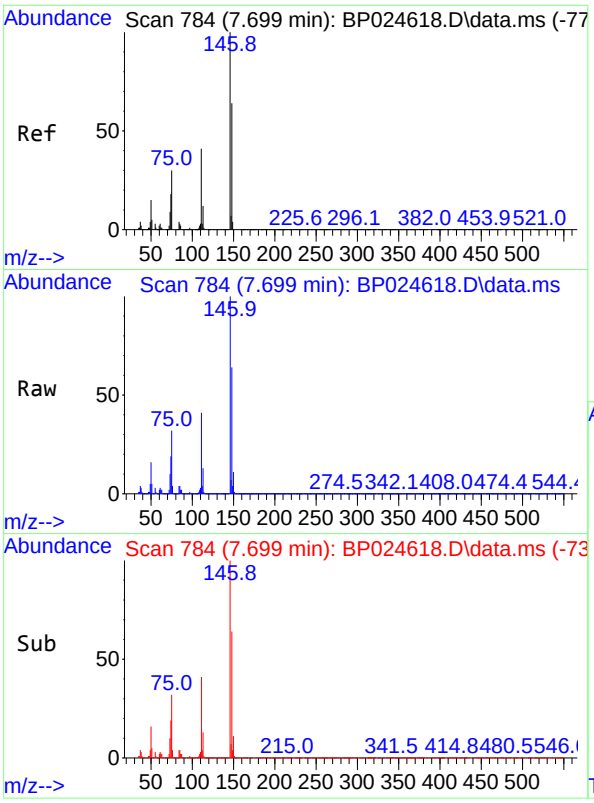


#12
1,3-Dichlorobenzene
Concen: 37.71 ng
RT: 7.552 min Scan# 759
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:146 Resp: 348242

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.4	77.2
75	31.5	25.2	37.8

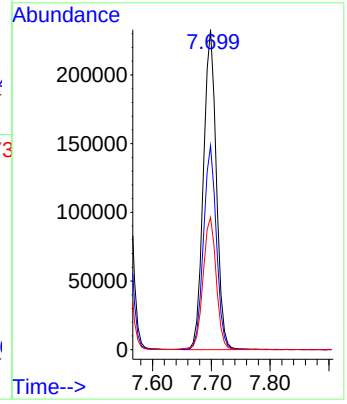




#13
1,4-Dichlorobenzene
Concen: 38.27 ng
RT: 7.699 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:146 Resp: 35553

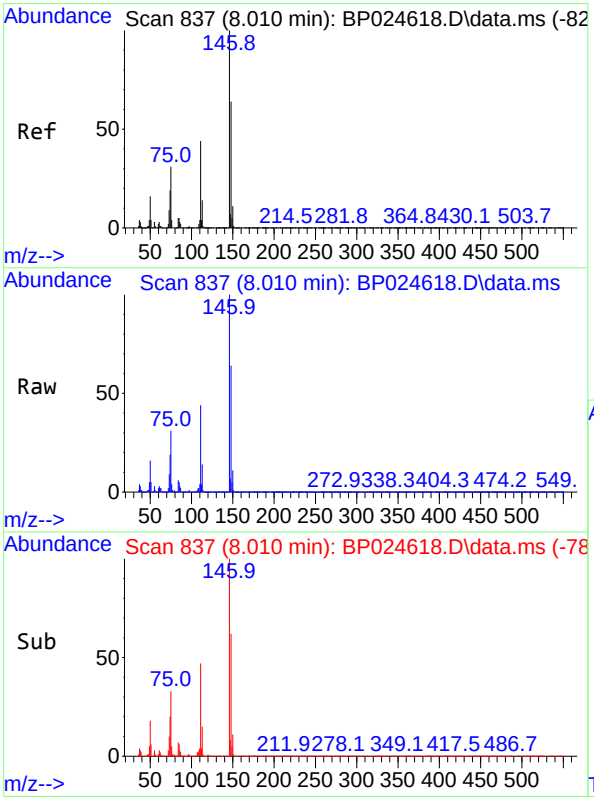
Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.0	76.6
111	41.3	33.0	49.6



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

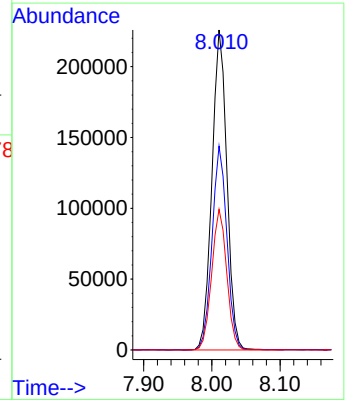
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

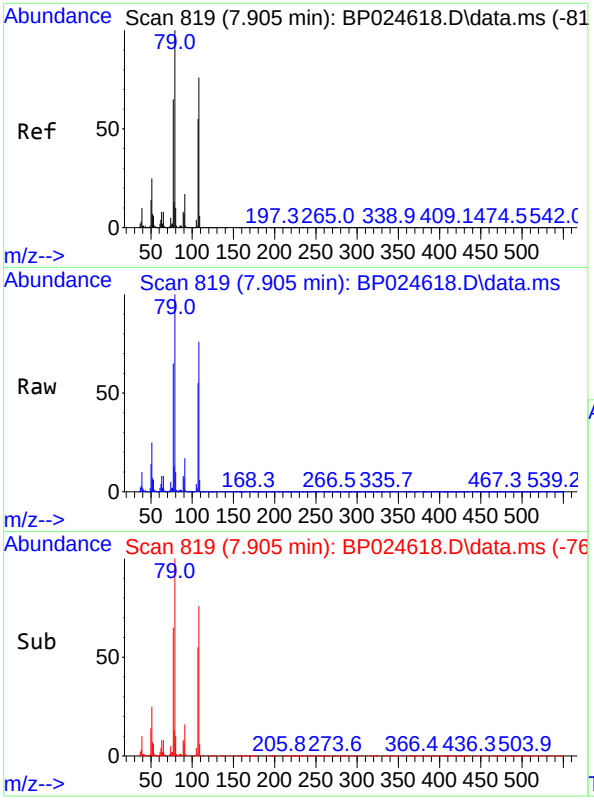


#14
1,2-Dichlorobenzene
Concen: 38.11 ng
RT: 8.010 min Scan# 837
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:146 Resp: 344980

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.0	76.4
111	44.0	35.2	52.8





#15
Benzyl Alcohol
Concen: 40.52 ng
RT: 7.905 min Scan# 81
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

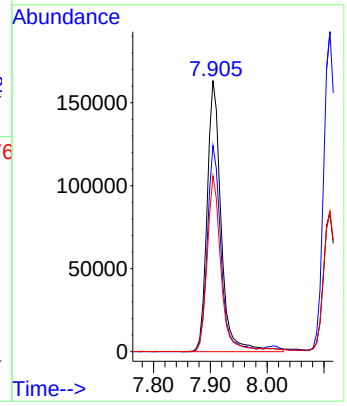
Tgt Ion: 79 Resp: 27789

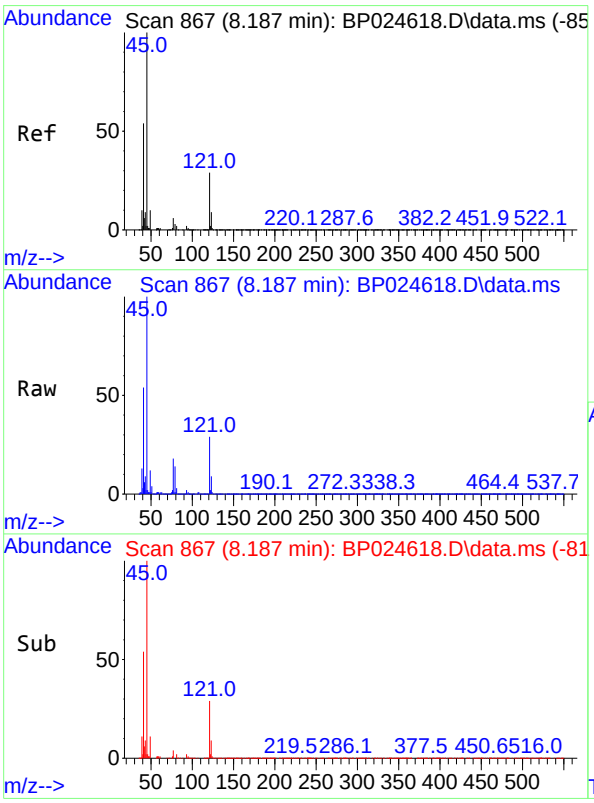
Ion	Ratio	Lower	Upper
79	100		
108	76.0	60.8	91.2
77	64.9	51.9	77.9

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

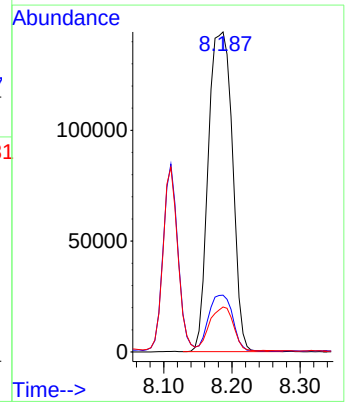


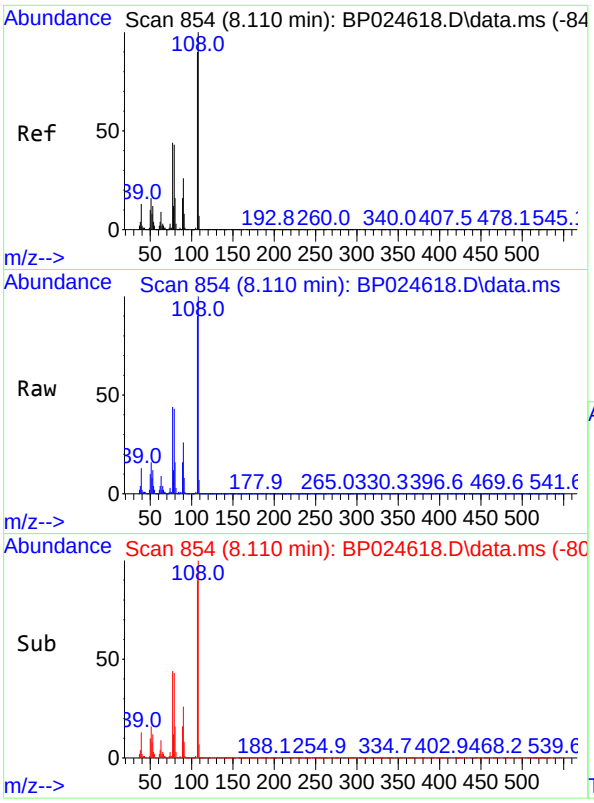


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.71 ng
RT: 8.187 min Scan# 867
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 45 Resp: 354872

Ion	Ratio	Lower	Upper
45	100		
77	17.7	0.0	37.7
79	14.0	0.0	34.0

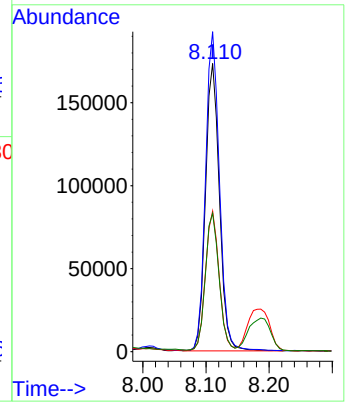




#17
2-Methylphenol
Concen: 39.81 ng
RT: 8.110 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:107 Resp: 26596

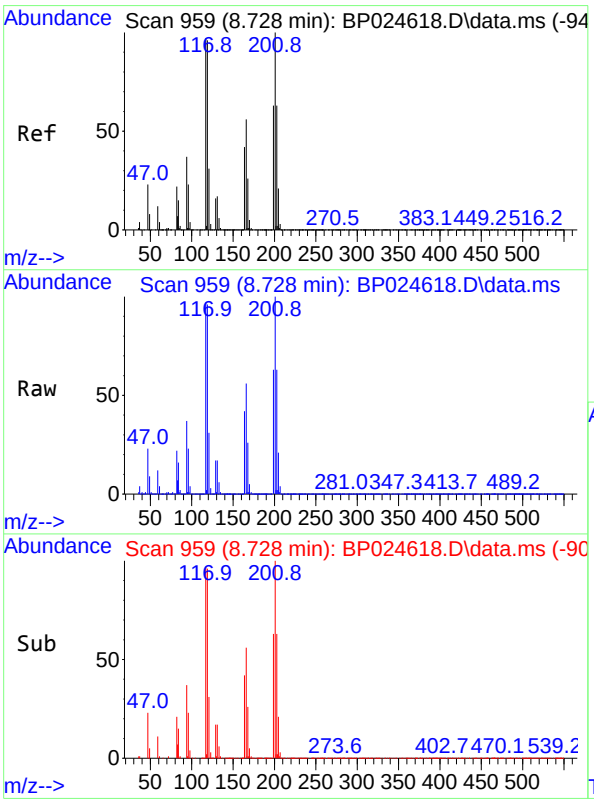
Ion	Ratio	Lower	Upper
107	100		
108	111.1	88.9	133.3
77	48.8	39.0	58.6
79	48.0	38.4	57.6



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

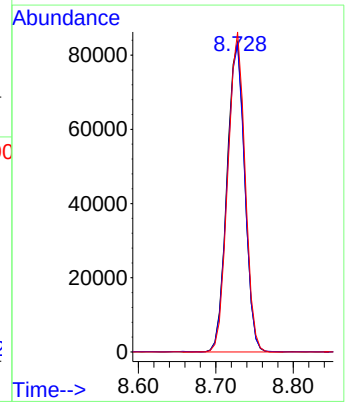
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

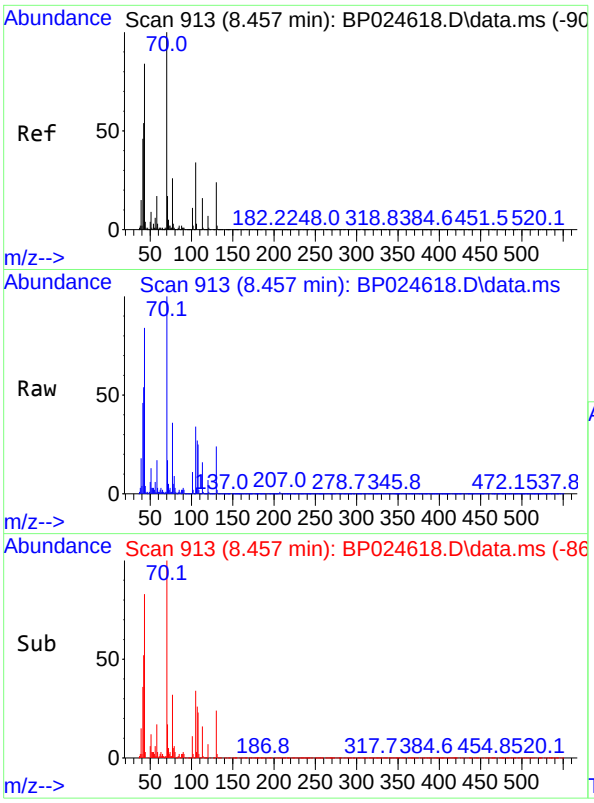


#18
Hexachloroethane
Concen: 37.43 ng
RT: 8.728 min Scan# 959
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:117 Resp: 133224

Ion	Ratio	Lower	Upper
117	100		
119	99.2	79.4	119.0
201	103.4	82.7	124.1

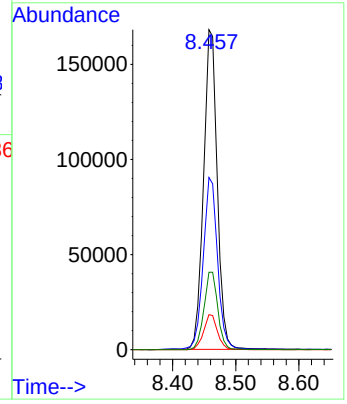




#19
n-Nitroso-di-n-propylamine
Concen: 40.61 ng
RT: 8.457 min Scan# 91
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

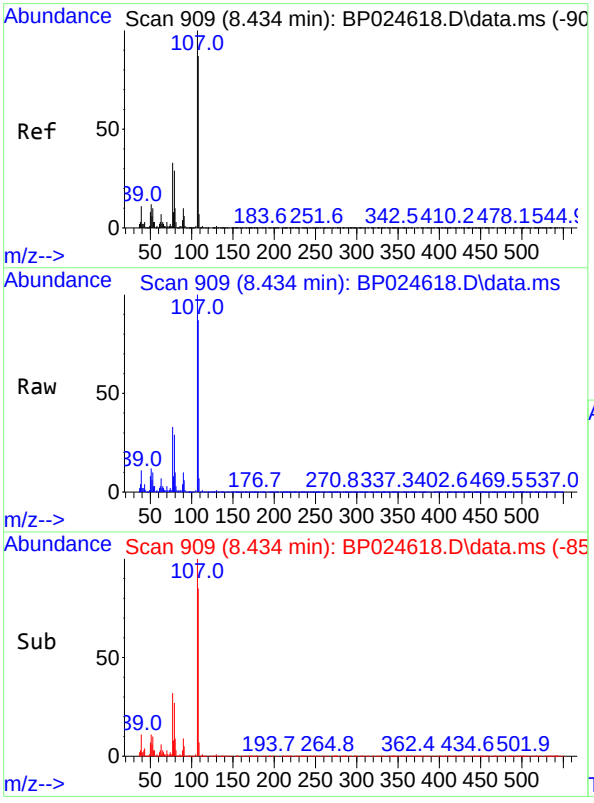
Tgt Ion: 70 Resp: 25355

Ion	Ratio	Lower	Upper
70	100		
42	53.8	43.0	64.6
101	10.9	8.7	13.1
130	24.2	19.4	29.0



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

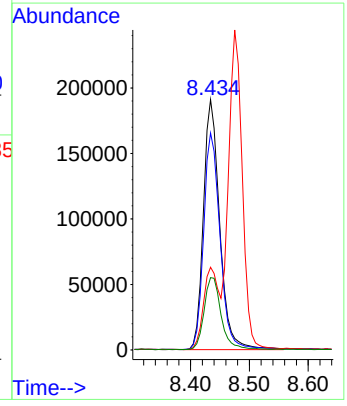
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

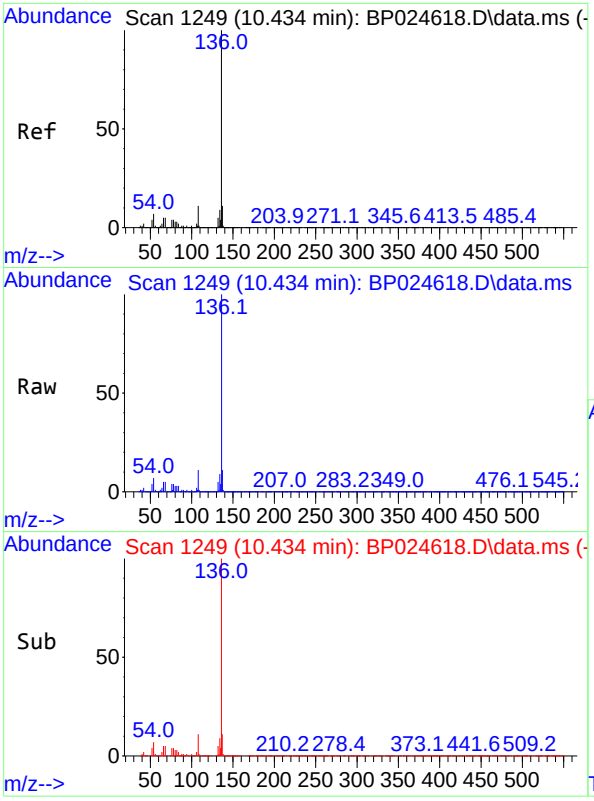


#20
3+4-Methylphenols
Concen: 40.33 ng
RT: 8.434 min Scan# 909
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:107 Resp: 366564

Ion	Ratio	Lower	Upper
107	100		
108	86.7	66.7	106.7
77	33.1	13.1	53.1
79	28.9	8.9	48.9

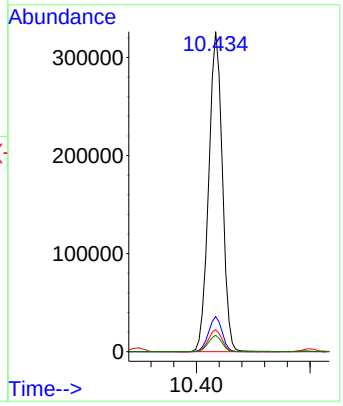




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:136 Resp: 54045

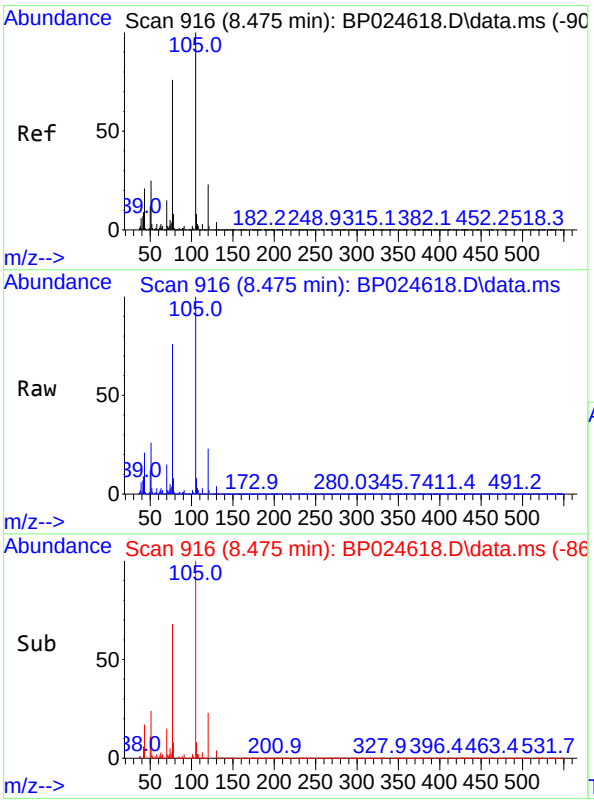
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	6.9	5.5	8.3
68	5.2	4.2	6.2



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

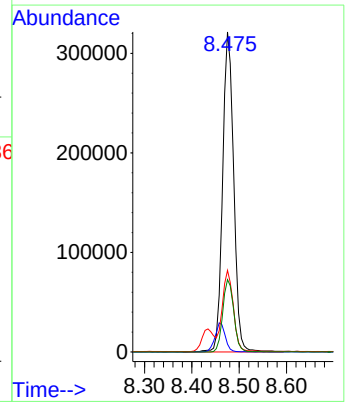
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

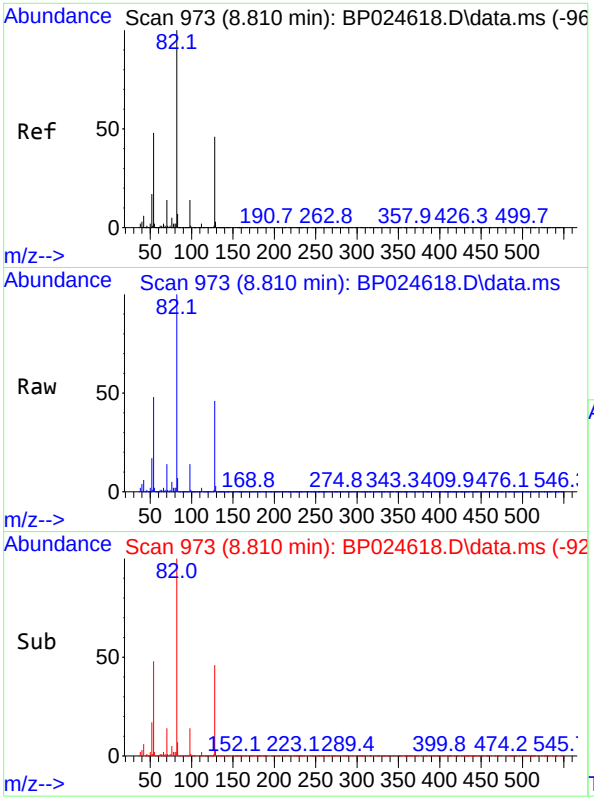


#22
Acetophenone
Concen: 38.64 ng
RT: 8.475 min Scan# 916
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:105 Resp: 521603

Ion	Ratio	Lower	Upper
105	100		
71	2.5	2.0	3.0
51	25.5	20.4	30.6
120	22.6	18.1	27.1

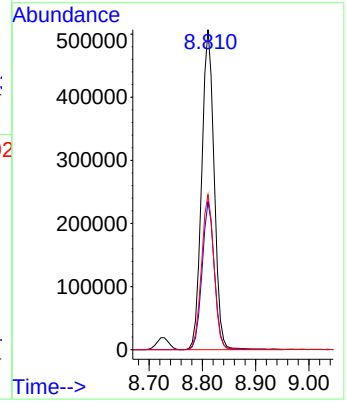




#23
Nitrobenzene-d5
Concen: 77.28 ng
RT: 8.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 82 Resp: 82656

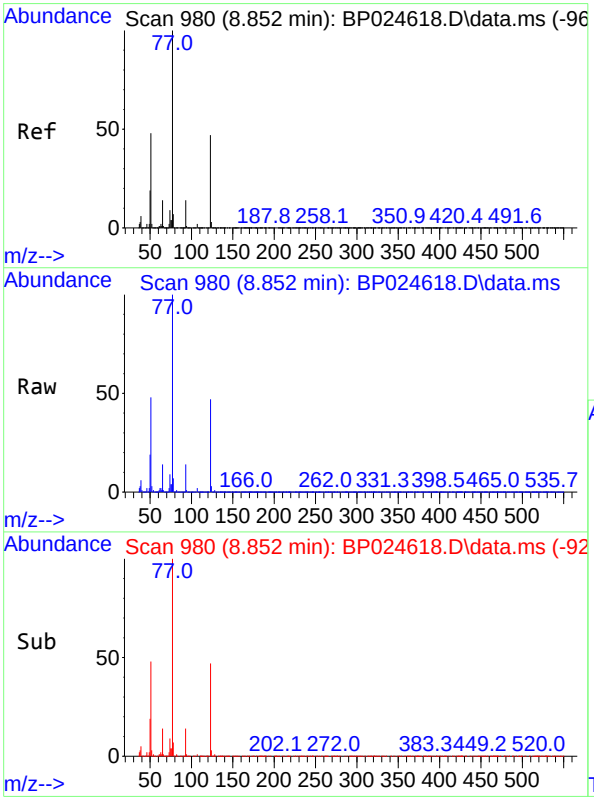
Ion	Ratio	Lower	Upper
82	100		
128	46.2	37.0	55.4
54	48.4	38.7	58.1



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

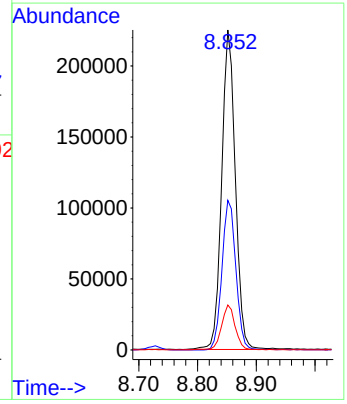
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

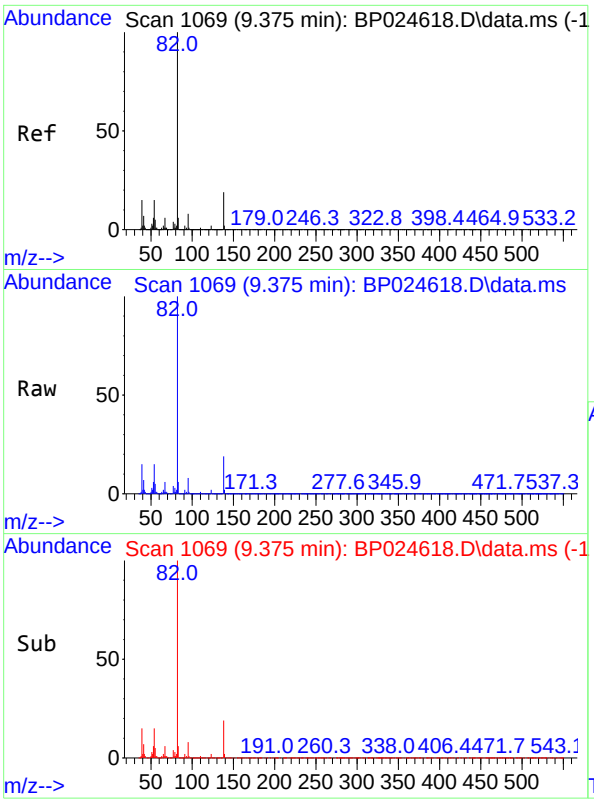


#24
Nitrobenzene
Concen: 38.65 ng
RT: 8.852 min Scan# 980
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 77 Resp: 363767

Ion	Ratio	Lower	Upper
77	100		
123	46.7	37.4	56.0
65	14.1	11.3	16.9

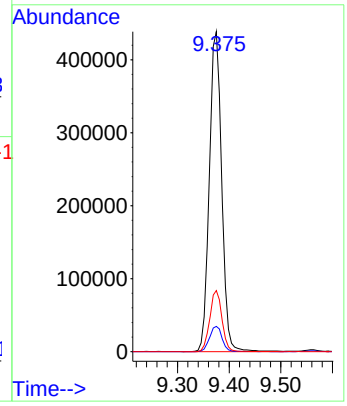




#25
Isophorone
Concen: 39.19 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 82 Resp: 72708

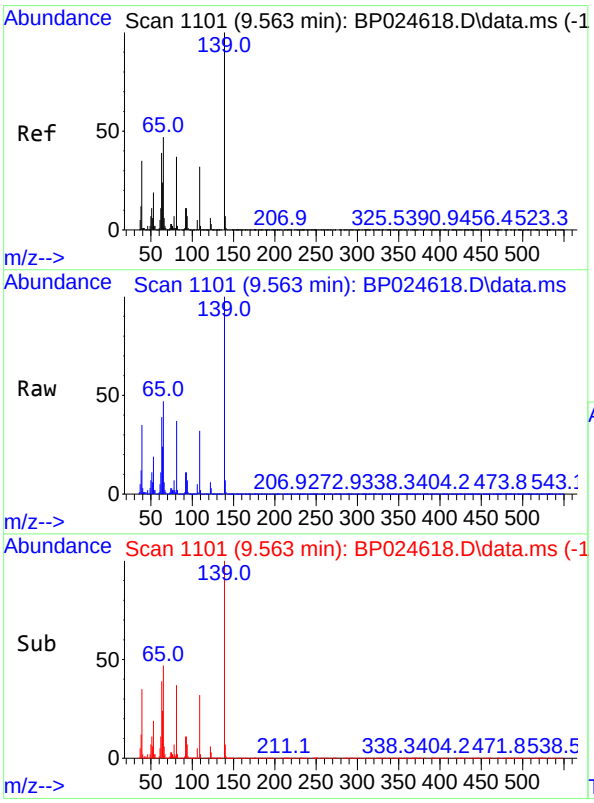
Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.3	9.5
138	19.1	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

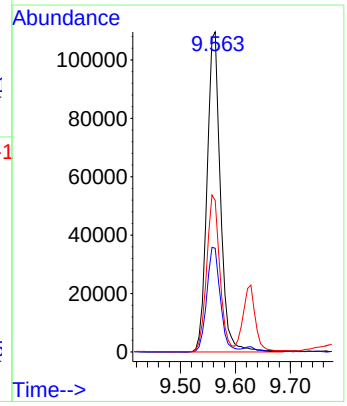
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

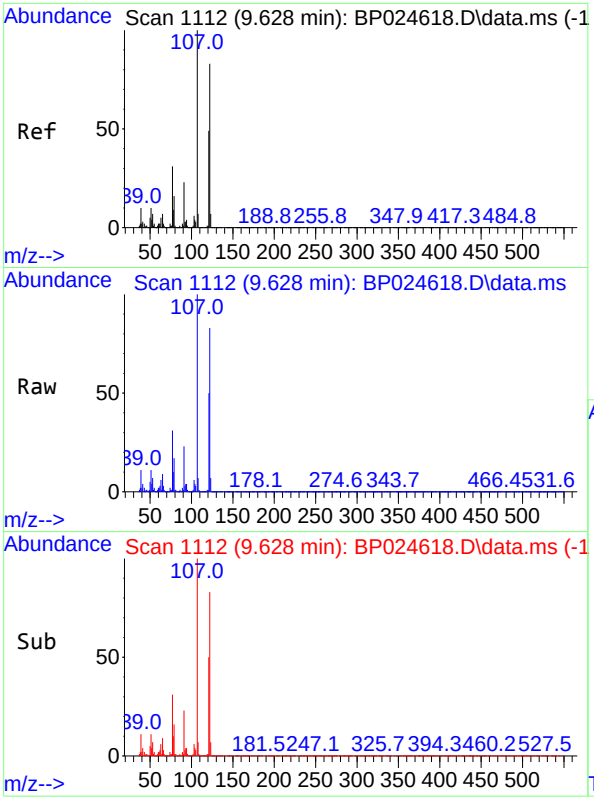


#26
2-Nitrophenol
Concen: 40.24 ng
RT: 9.563 min Scan# 1101
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:139 Resp: 185587

Ion	Ratio	Lower	Upper
139	100		
109	32.4	25.9	38.9
65	47.4	37.9	56.9

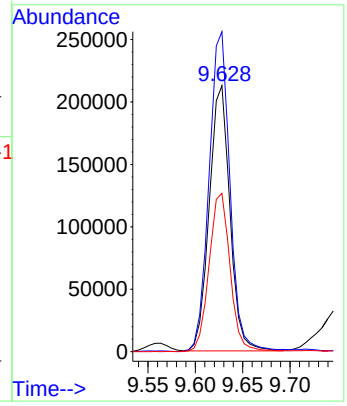




#27
2,4-Dimethylphenol
Concen: 39.62 ng
RT: 9.628 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:122 Resp: 32222

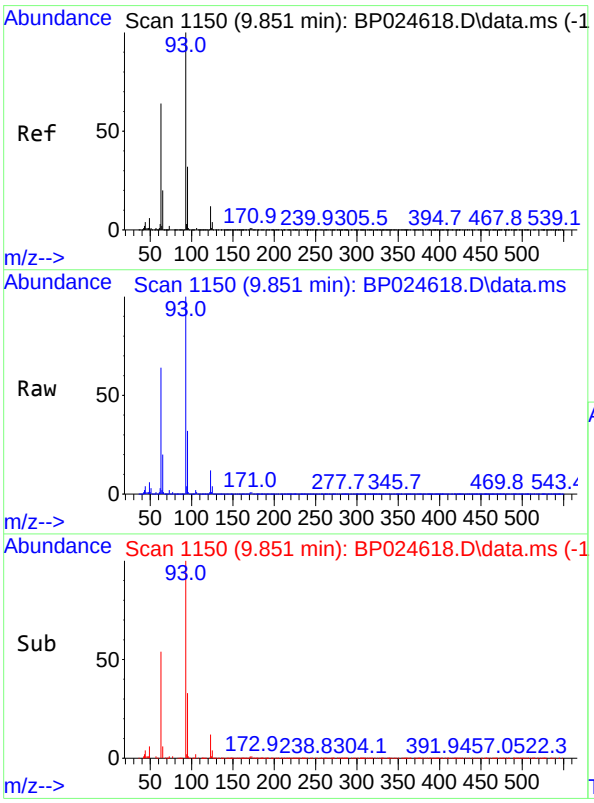
Ion	Ratio	Lower	Upper
122	100		
107	120.2	96.2	144.2
121	59.5	47.6	71.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

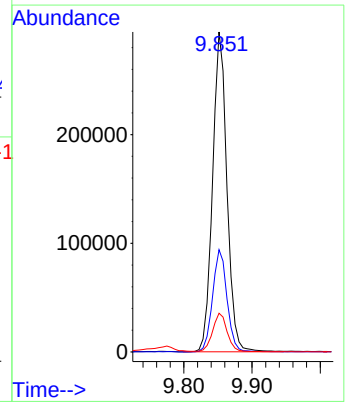
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

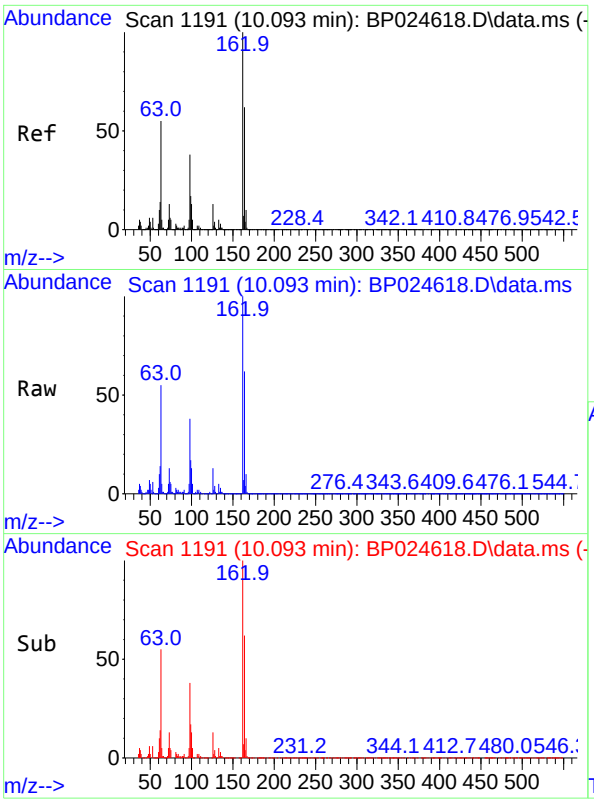


#28
bis(2-Chloroethoxy)methane
Concen: 38.88 ng
RT: 9.851 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 93 Resp: 430958

Ion	Ratio	Lower	Upper
93	100		
95	31.9	25.5	38.3
123	12.1	9.7	14.5

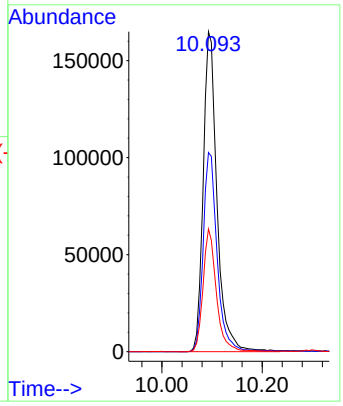




#29
2,4-Dichlorophenol
Concen: 39.95 ng
RT: 10.093 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:162 Resp: 31483

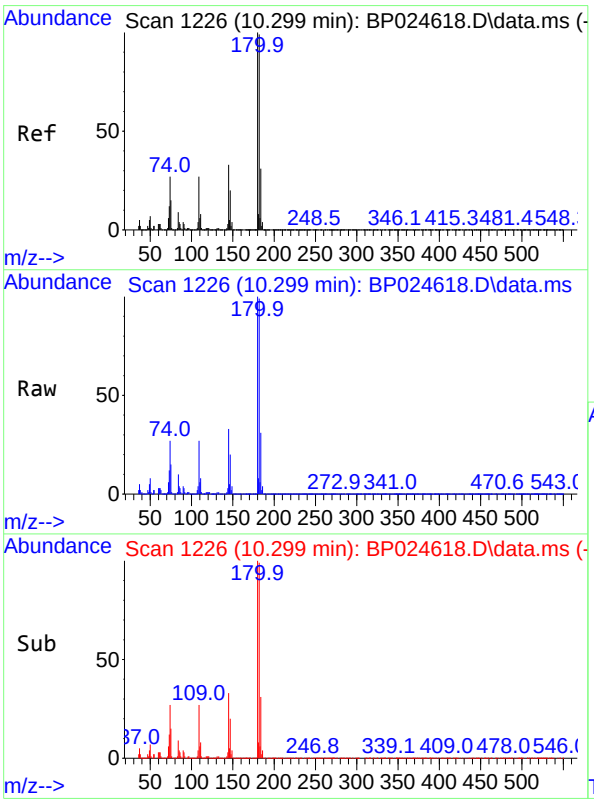
Ion	Ratio	Lower	Upper
162	100		
164	62.3	42.3	82.3
98	38.4	18.4	58.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

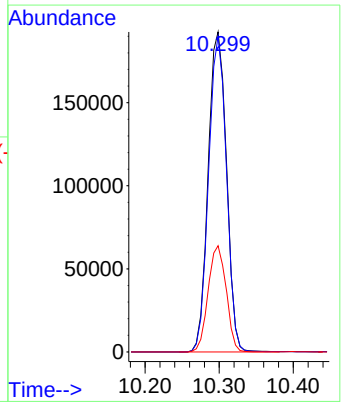
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

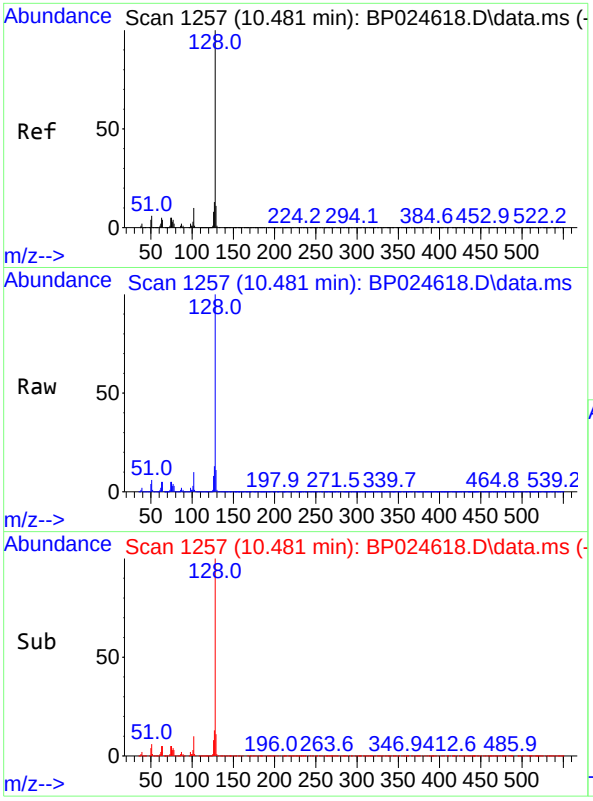


#30
1,2,4-Trichlorobenzene
Concen: 37.23 ng
RT: 10.299 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:180 Resp: 330659

Ion	Ratio	Lower	Upper
180	100		
182	98.7	79.0	118.4
145	33.2	26.6	39.8

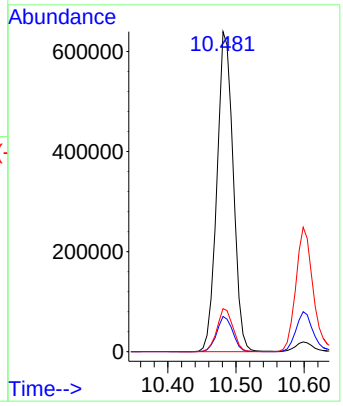




#31
Naphthalene
Concen: 37.82 ng
RT: 10.481 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:128 Resp: 105931

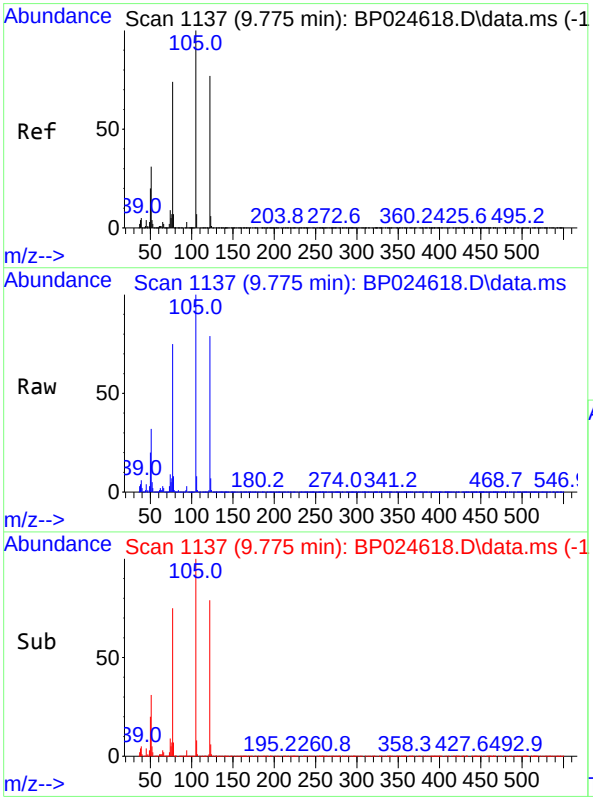
Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.4	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

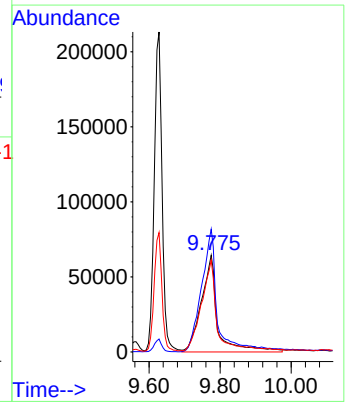
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

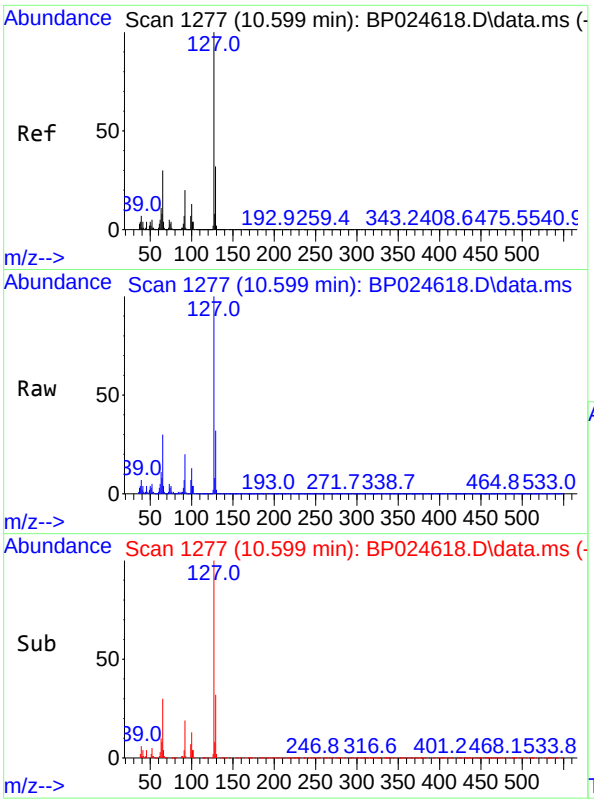


#32
Benzoic acid
Concen: 38.01 ng m
RT: 9.775 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:122 Resp: 206829

Ion	Ratio	Lower	Upper
122	100		
105	126.9	106.9	146.9
77	95.1	75.1	115.1

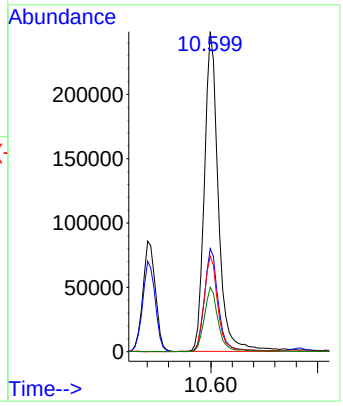




#33
4-Chloroaniline
Concen: 40.01 ng
RT: 10.599 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:127 Resp: 45215

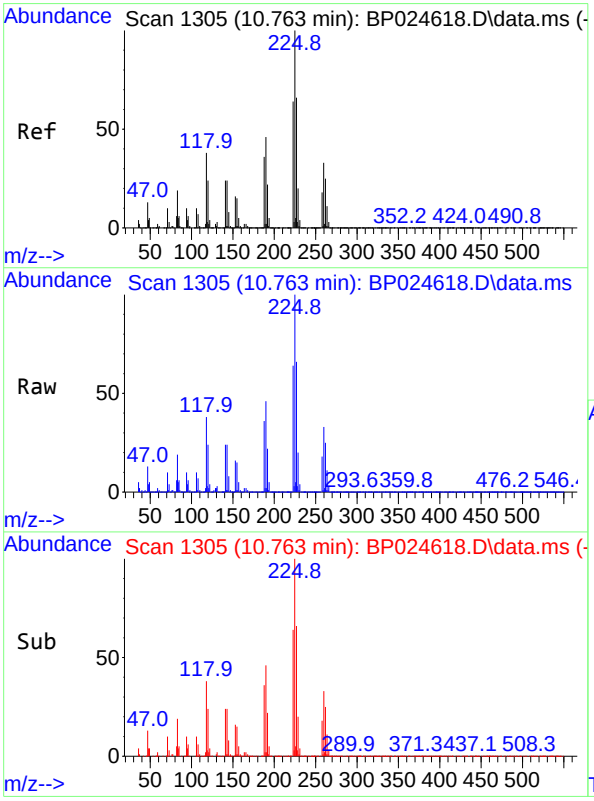
Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.8	38.6
65	29.9	23.9	35.9
92	20.1	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

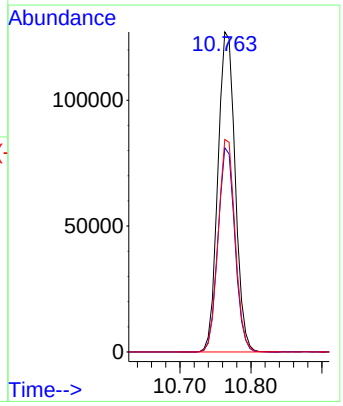
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

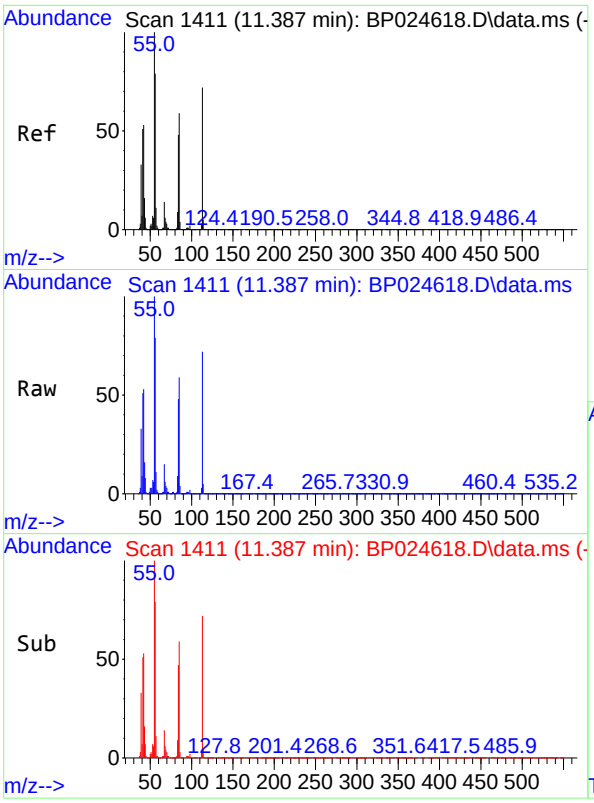


#34
Hexachlorobutadiene
Concen: 37.19 ng
RT: 10.763 min Scan# 1305
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:225 Resp: 213978

Ion	Ratio	Lower	Upper
225	100		
223	63.8	51.0	76.6
227	66.4	53.1	79.7





#35
Caprolactam
Concen: 41.43 ng
RT: 11.387 min Scan# 14
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

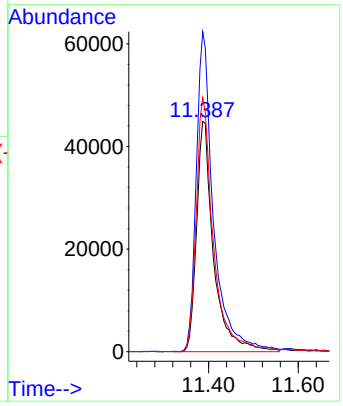
Tgt Ion:113 Resp: 11804

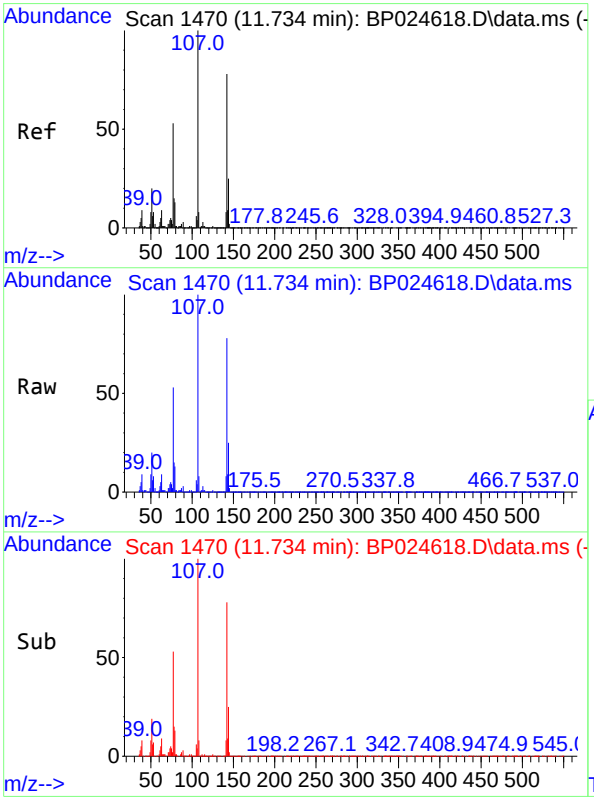
Ion	Ratio	Lower	Upper
113	100		
55	139.0	119.0	159.0
56	110.3	90.3	130.3

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

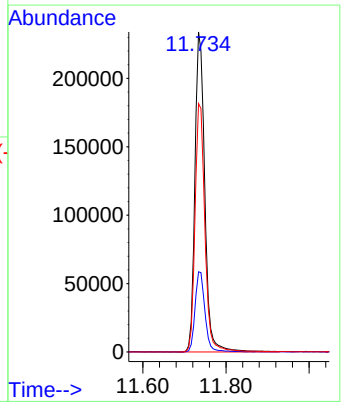


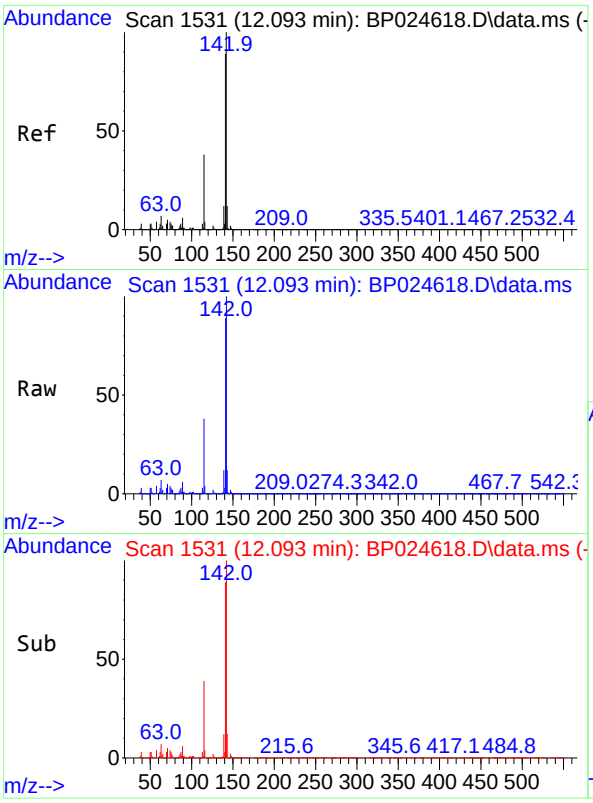


#36
4-Chloro-3-methylphenol
Concen: 40.07 ng
RT: 11.734 min Scan# 1470
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:107 Resp: 385077

Ion	Ratio	Lower	Upper
107	100		
144	25.1	20.1	30.1
142	77.6	62.1	93.1

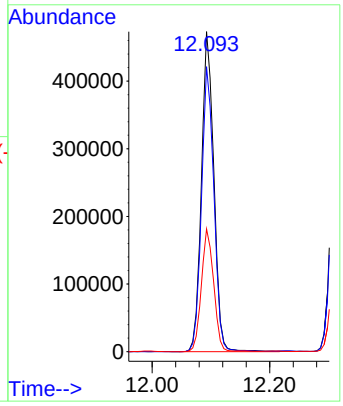




#37
2-Methylnaphthalene
Concen: 38.17 ng
RT: 12.093 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:142 Resp: 69213

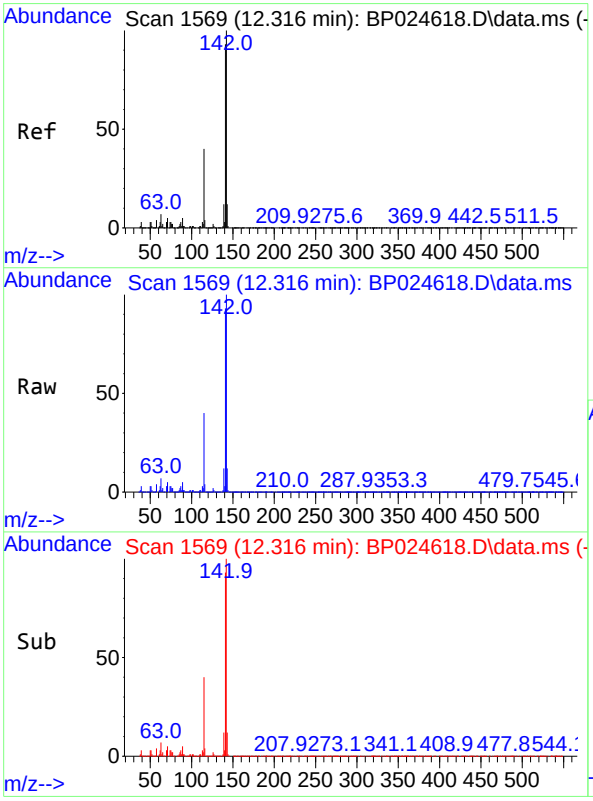
Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.2	106.8
115	38.3	30.6	46.0



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

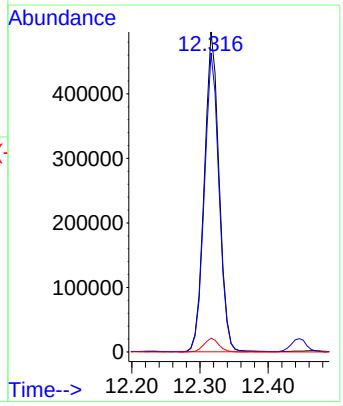
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

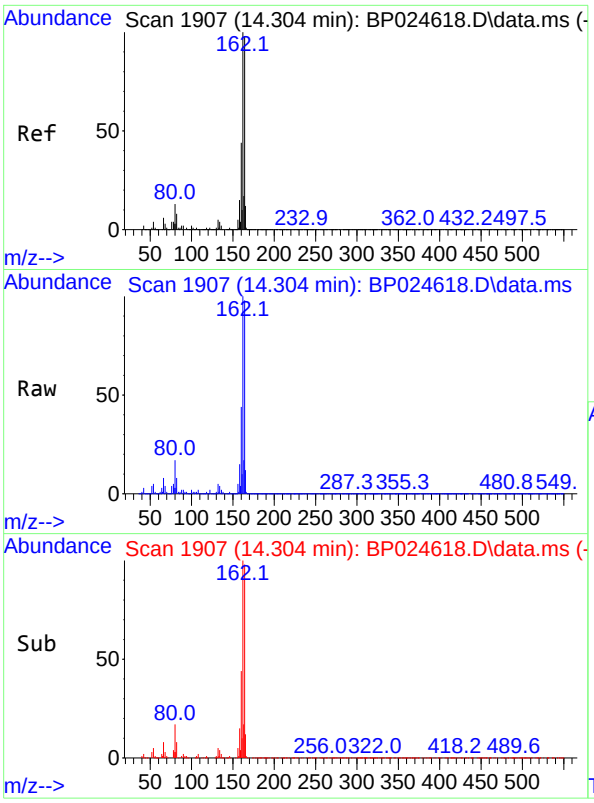


#38
1-Methylnaphthalene
Concen: 38.44 ng
RT: 12.316 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:142 Resp: 745849

Ion	Ratio	Lower	Upper
142	100		
141	93.4	74.7	112.1
116	4.3	3.4	5.2

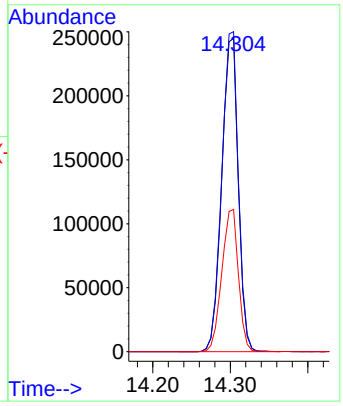




#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:164 Resp: 36245

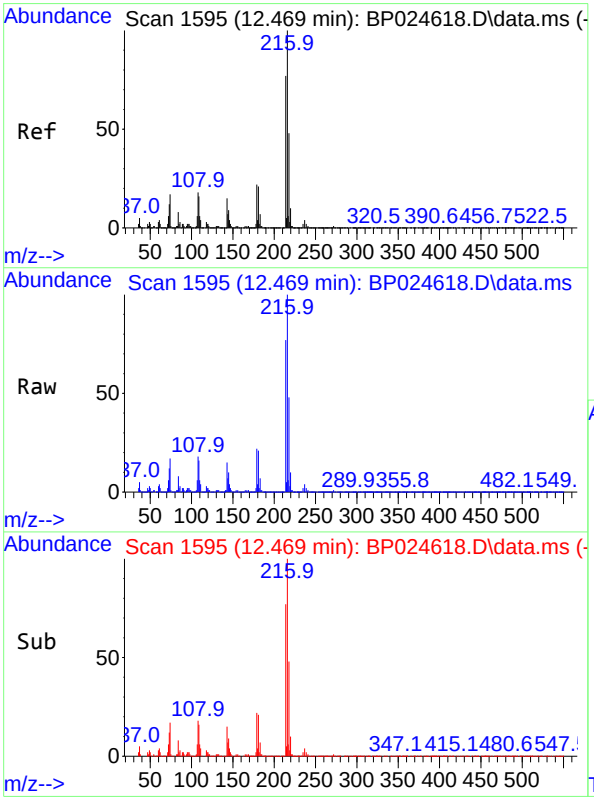
Ion	Ratio	Lower	Upper
164	100		
162	102.2	81.8	122.6
160	45.4	36.3	54.5



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

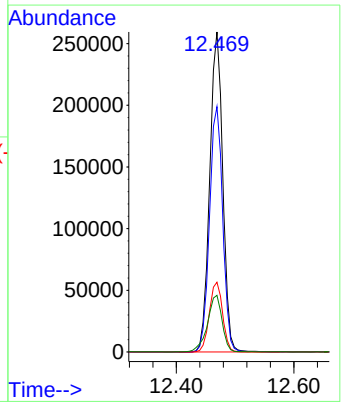
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

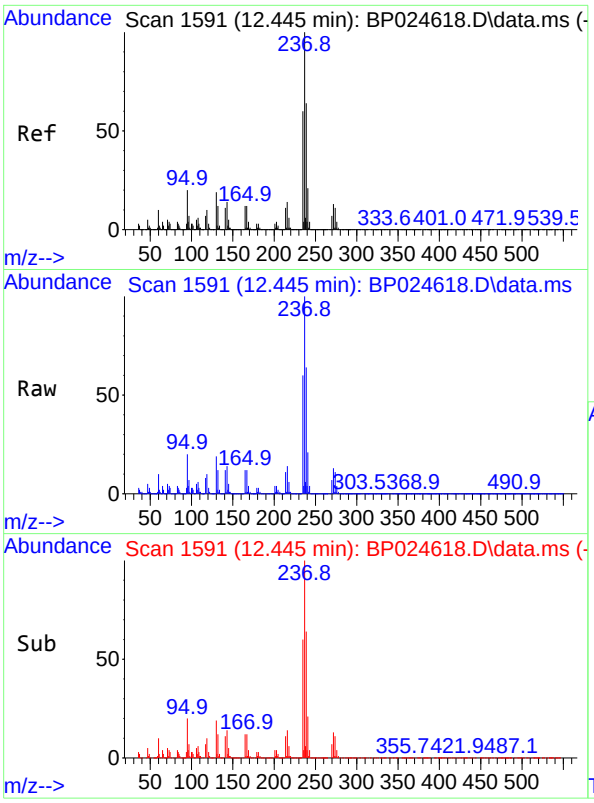


#40
1,2,4,5-Tetrachlorobenzene
Concen: 37.84 ng
RT: 12.469 min Scan# 1595
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:216 Resp: 398230

Ion	Ratio	Lower	Upper
216	100		
214	77.9	62.3	93.5
179	22.1	17.7	26.5
108	20.0	16.0	24.0





#41
Hexachlorocyclopentadiene
Concen: 40.48 ng
RT: 12.445 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

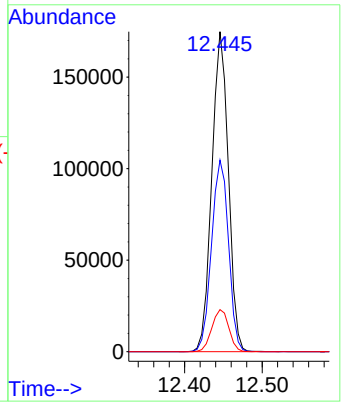
Tgt Ion:237 Resp: 25832

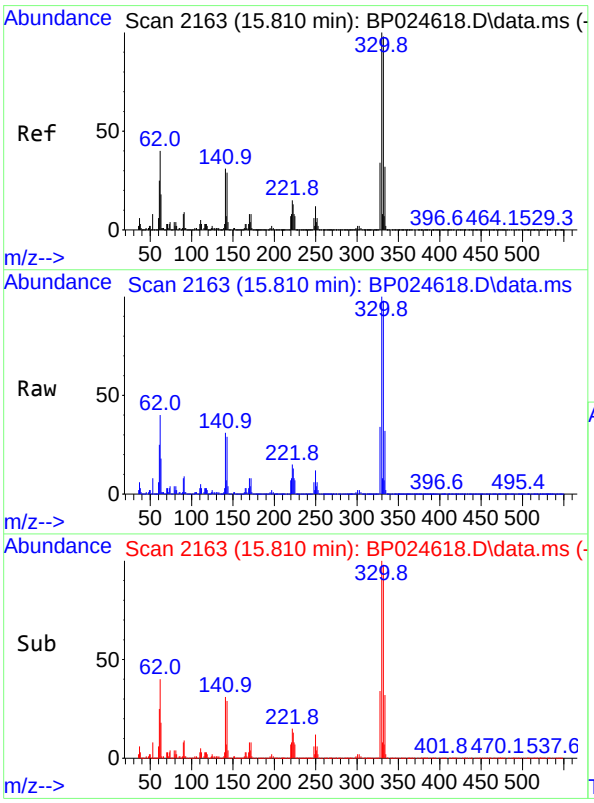
Ion	Ratio	Lower	Upper
237	100		
235	59.9	39.9	79.9
272	13.2	0.0	33.2

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

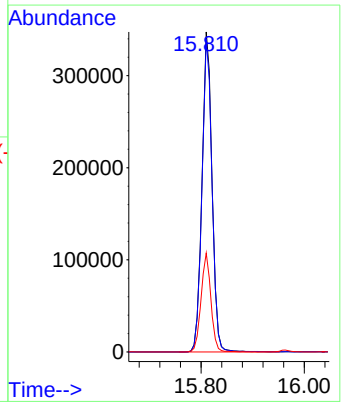


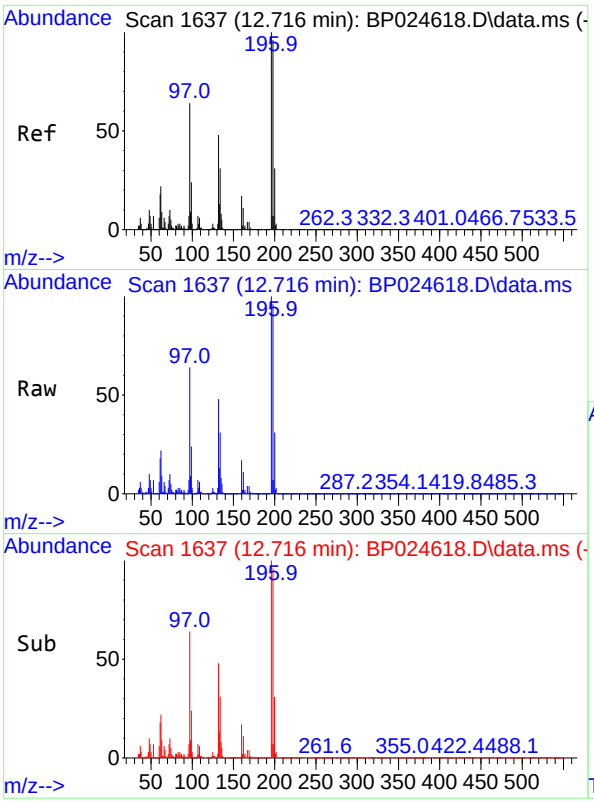


#42
2,4,6-Tribromophenol
Concen: 76.13 ng
RT: 15.810 min Scan# 2163
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:330 Resp: 467808

Ion	Ratio	Lower	Upper
330	100		
332	97.8	78.2	117.4
141	30.4	24.3	36.5

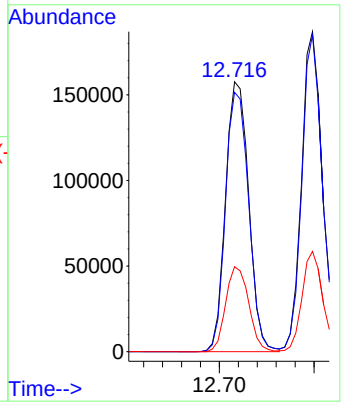




#43
2,4,6-Trichlorophenol
Concen: 39.41 ng
RT: 12.716 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:196 Resp: 26867

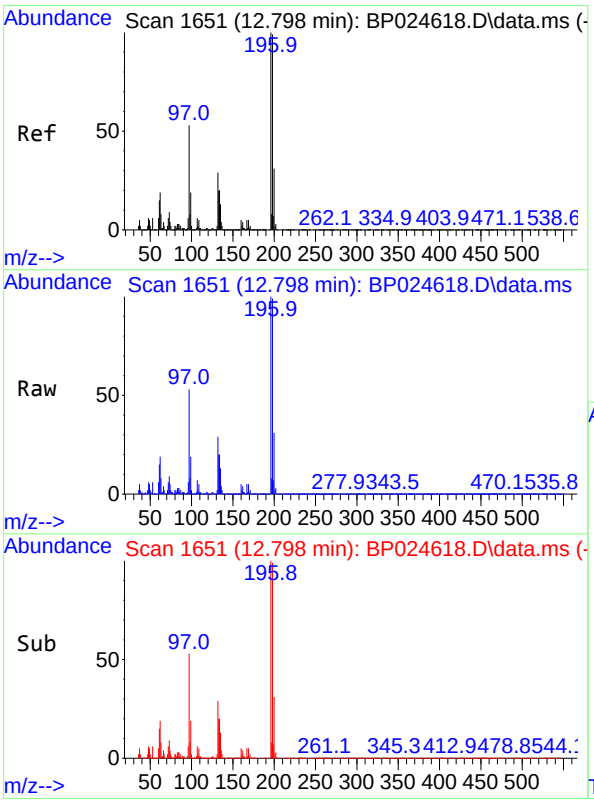
Ion	Ratio	Lower	Upper
196	100		
198	96.1	76.9	115.3
200	31.5	25.2	37.8



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

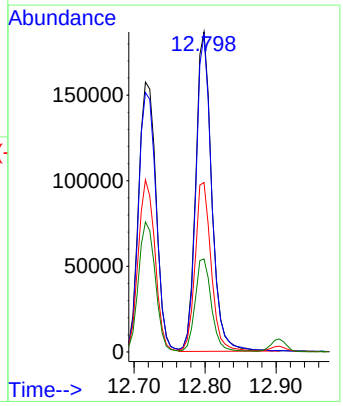
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

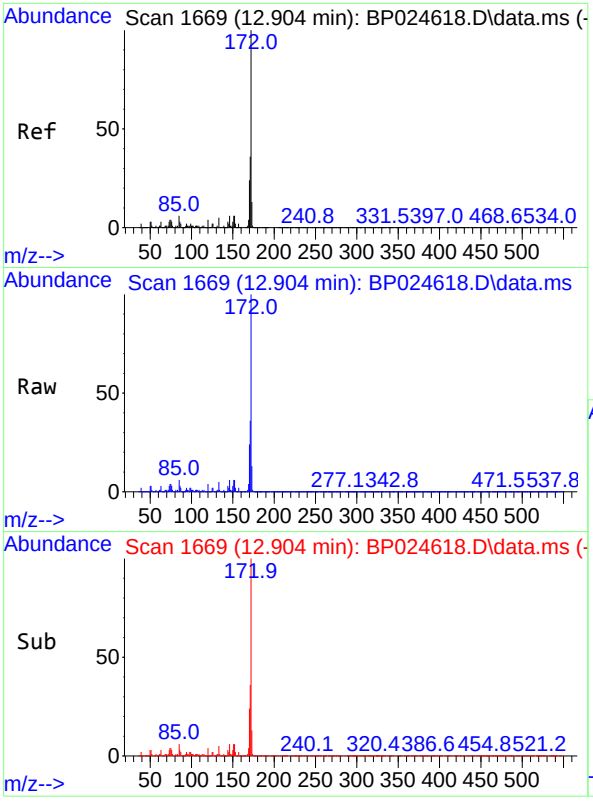


#44
2,4,5-Trichlorophenol
Concen: 38.62 ng
RT: 12.798 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:196 Resp: 293079

Ion	Ratio	Lower	Upper
196	100		
198	99.0	79.2	118.8
97	52.9	42.3	63.5
132	29.1	23.3	34.9

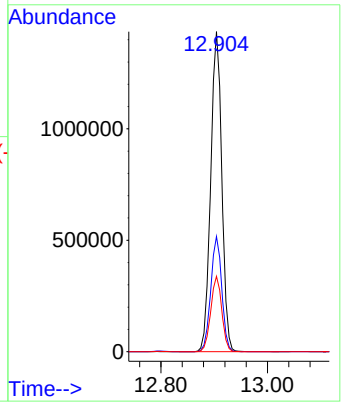




#45
2-Fluorobiphenyl
Concen: 75.05 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:172 Resp: 207635

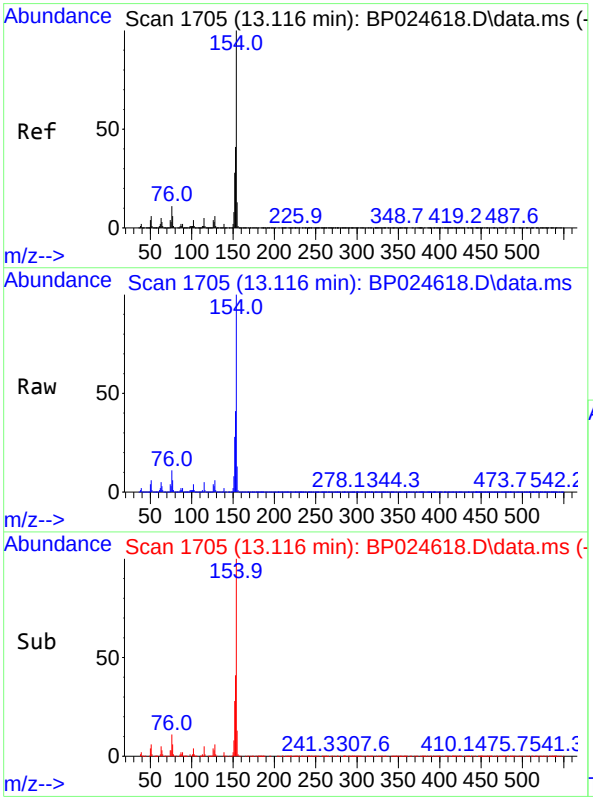
Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.5	18.8	28.2



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

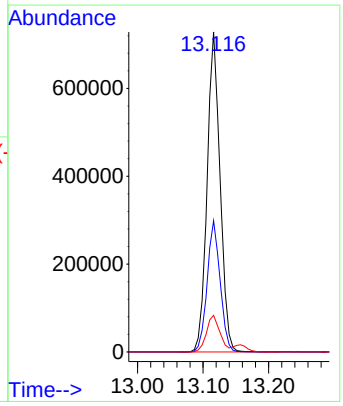
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

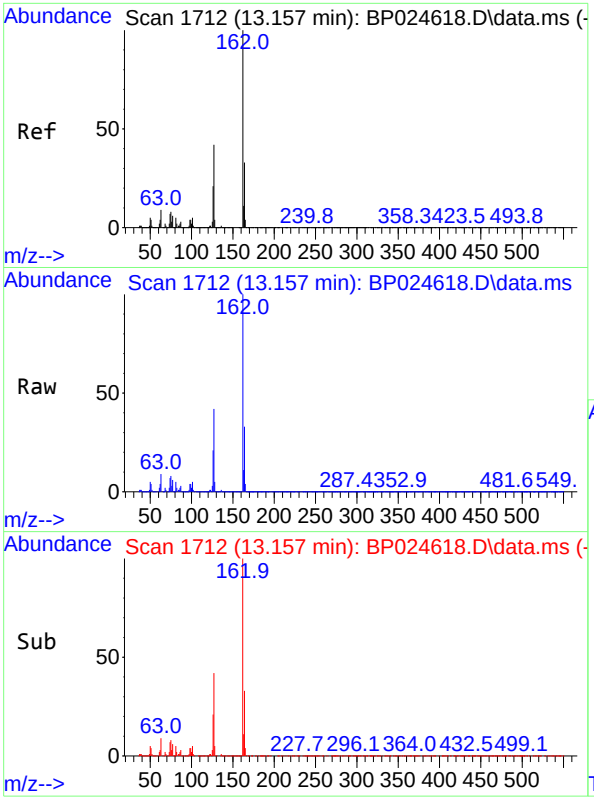


#46
1,1'-Biphenyl
Concen: 37.42 ng
RT: 13.116 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:154 Resp: 1002344

Ion	Ratio	Lower	Upper
154	100		
153	41.0	21.0	61.0
76	11.5	0.0	31.5

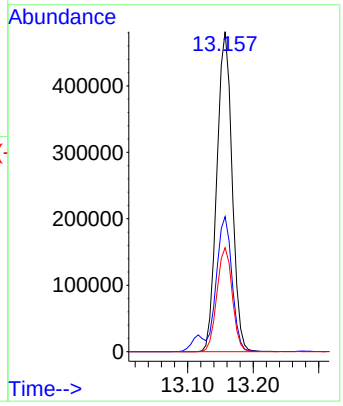




#47
2-Chloronaphthalene
Concen: 37.79 ng
RT: 13.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:162 Resp: 77195

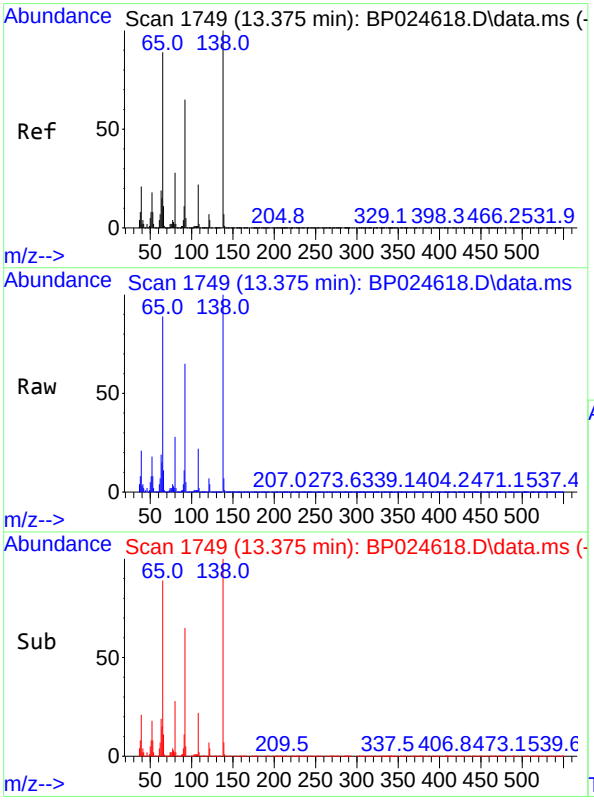
Ion	Ratio	Lower	Upper
162	100		
127	42.2	33.8	50.6
164	32.5	26.0	39.0



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

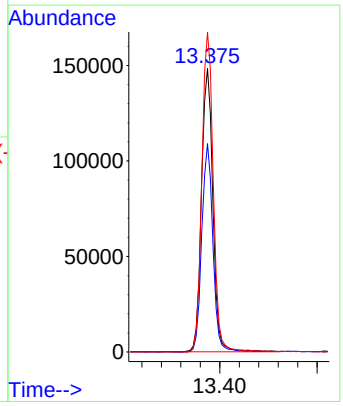
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

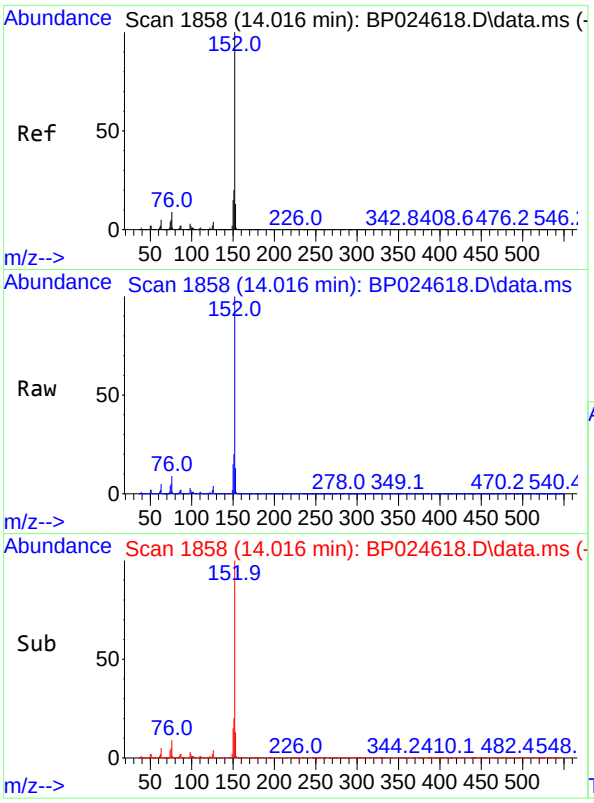


#48
2-Nitroaniline
Concen: 40.10 ng
RT: 13.375 min Scan# 1749
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 65 Resp: 242485

Ion	Ratio	Lower	Upper
65	100		
92	73.4	58.7	88.1
138	112.7	90.2	135.2

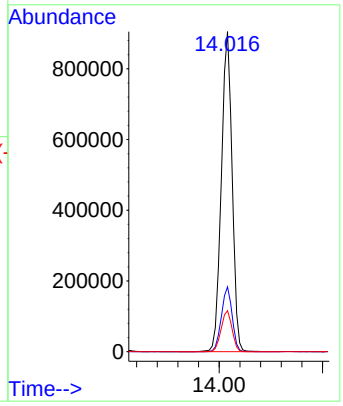




#49
Acenaphthylene
Concen: 38.26 ng
RT: 14.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:152 Resp: 130774

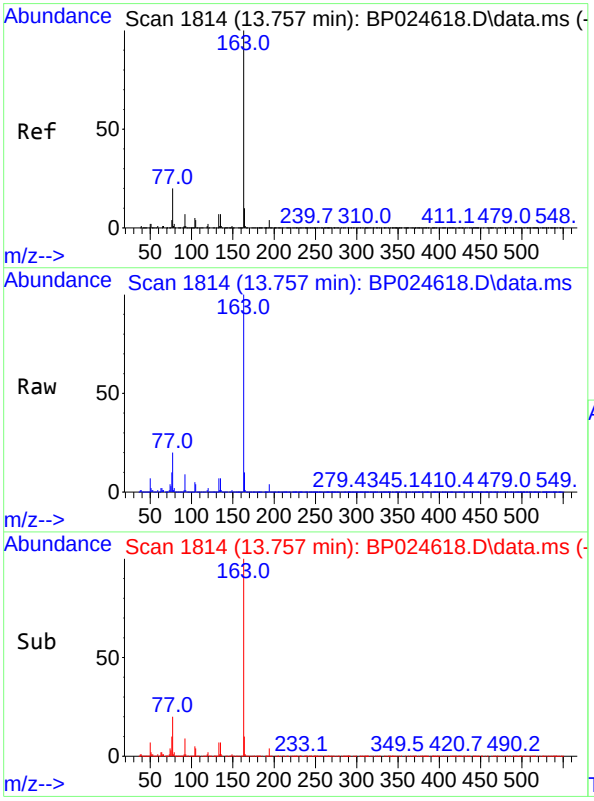
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	12.8	10.2	15.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

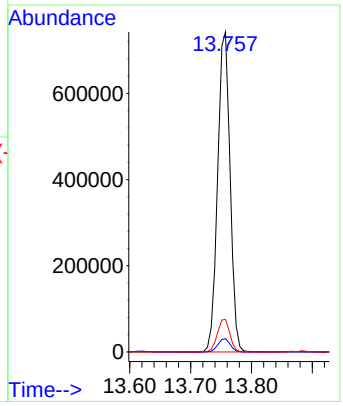
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

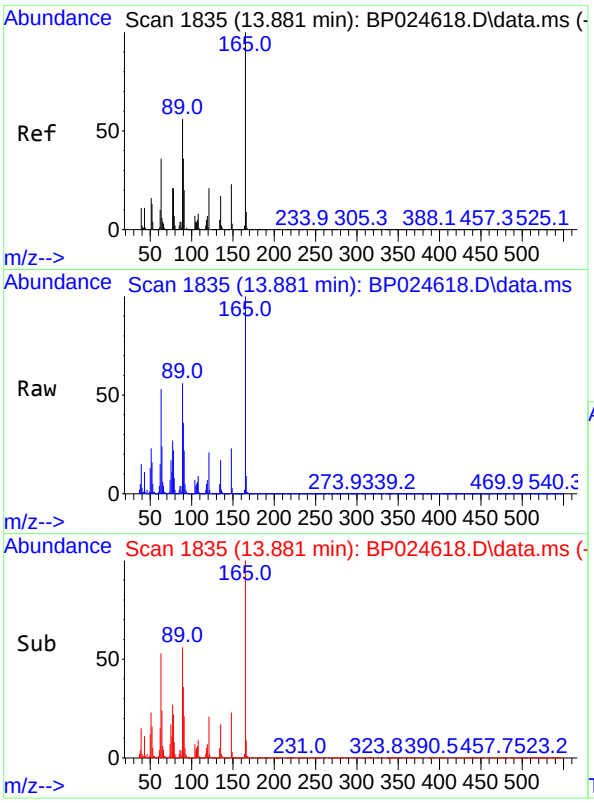


#50
Dimethylphthalate
Concen: 38.04 ng
RT: 13.757 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:163 Resp: 1051056

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.1	8.1	12.1

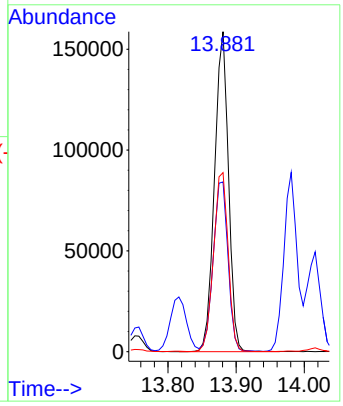




#51
2,6-Dinitrotoluene
Concen: 38.75 ng
RT: 13.881 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:165 Resp: 22608

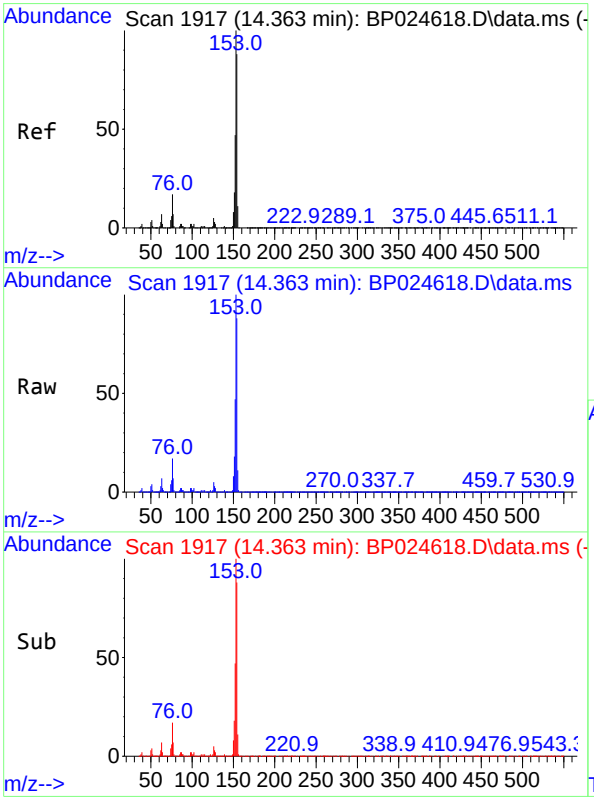
Ion	Ratio	Lower	Upper
165	100		
63	53.0	42.4	63.6
89	56.0	44.8	67.2



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

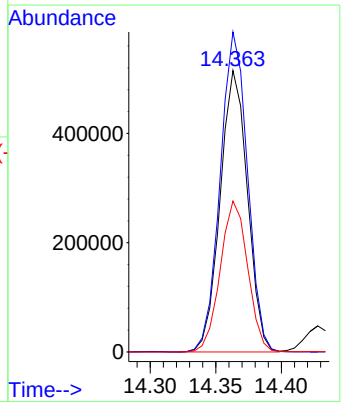
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

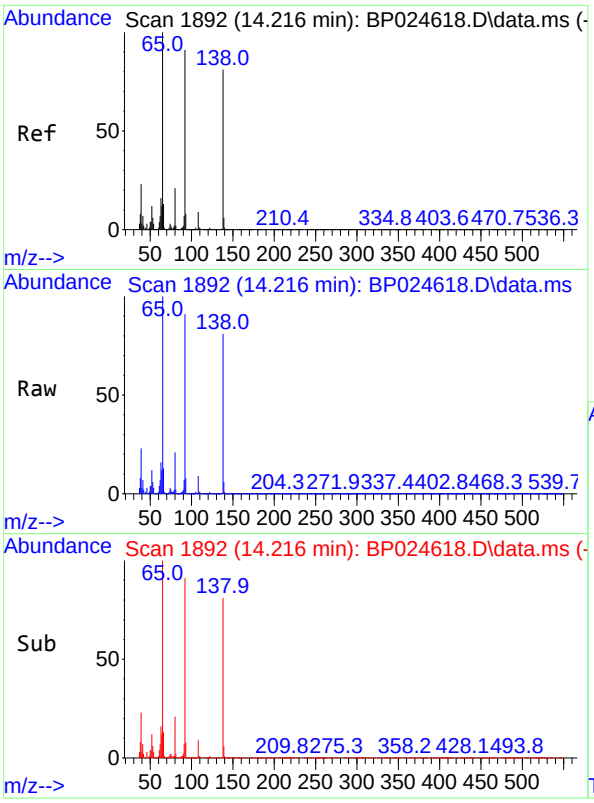


#52
Acenaphthene
Concen: 37.93 ng
RT: 14.363 min Scan# 1917
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:154 Resp: 745335

Ion	Ratio	Lower	Upper
154	100		
153	113.7	91.0	136.4
152	53.6	42.9	64.3





#53
3-Nitroaniline
Concen: 41.39 ng
RT: 14.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

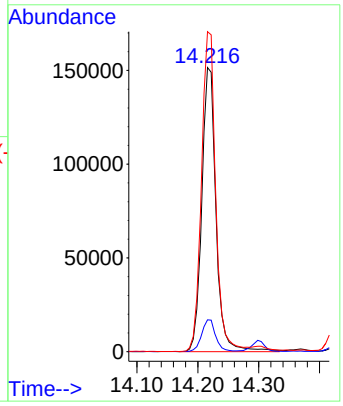
Tgt Ion:138 Resp: 24656

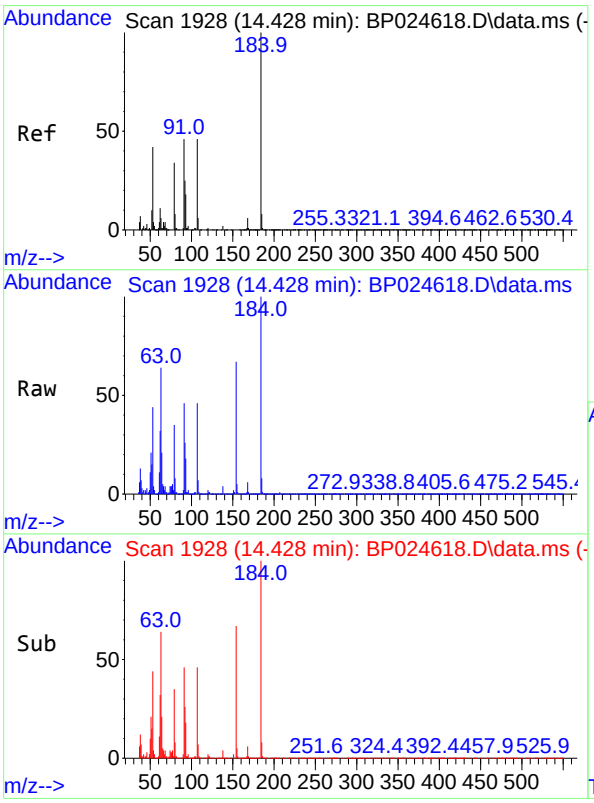
Ion	Ratio	Lower	Upper
138	100		
108	11.2	9.0	13.4
92	112.6	90.1	135.1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

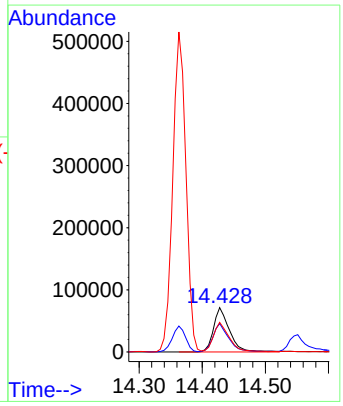


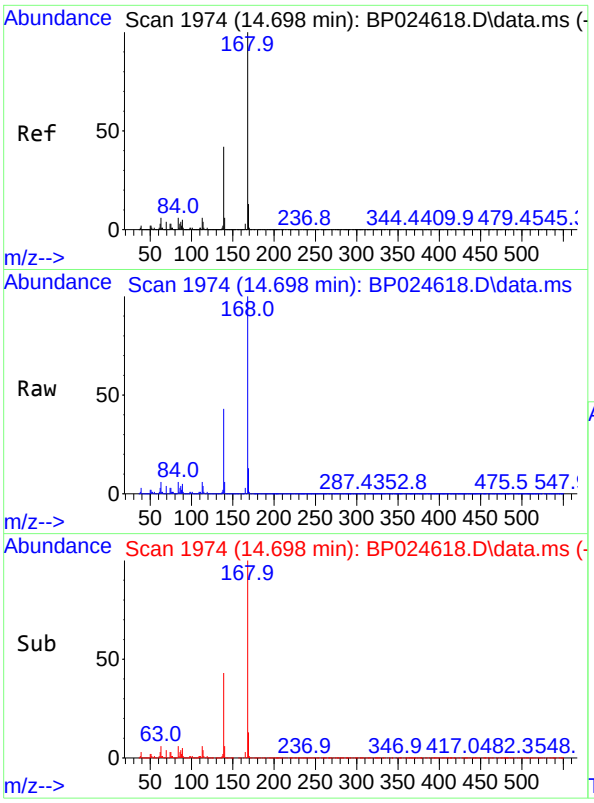


#54
2,4-Dinitrophenol
Concen: 37.54 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:184 Resp: 124517

Ion	Ratio	Lower	Upper
184	100		
63	64.1	51.3	76.9
154	66.9	53.5	80.3

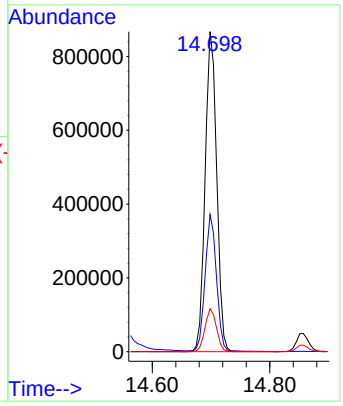




#55
Dibenzofuran
Concen: 37.77 ng
RT: 14.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:168 Resp: 118380

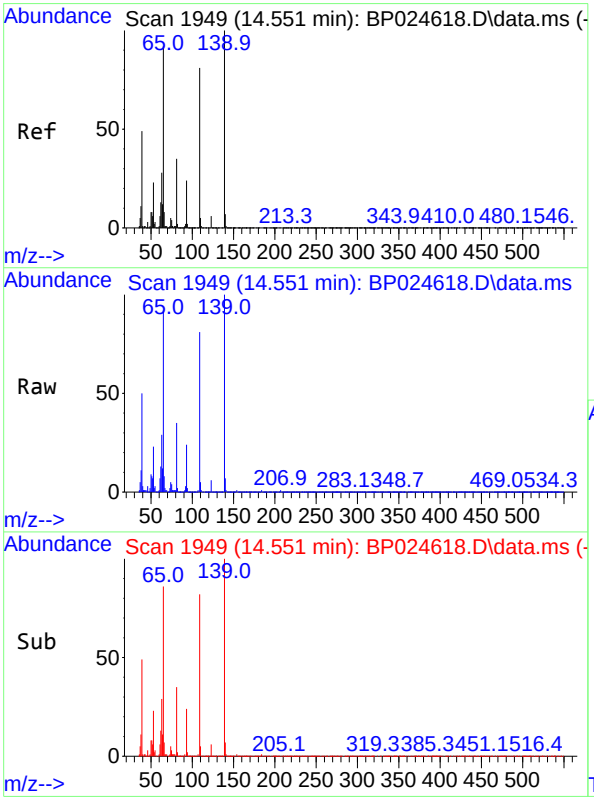
Ion	Ratio	Lower	Upper
168	100		
139	42.8	34.2	51.4
169	13.5	10.8	16.2



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

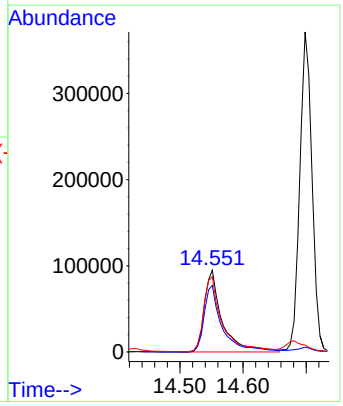
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

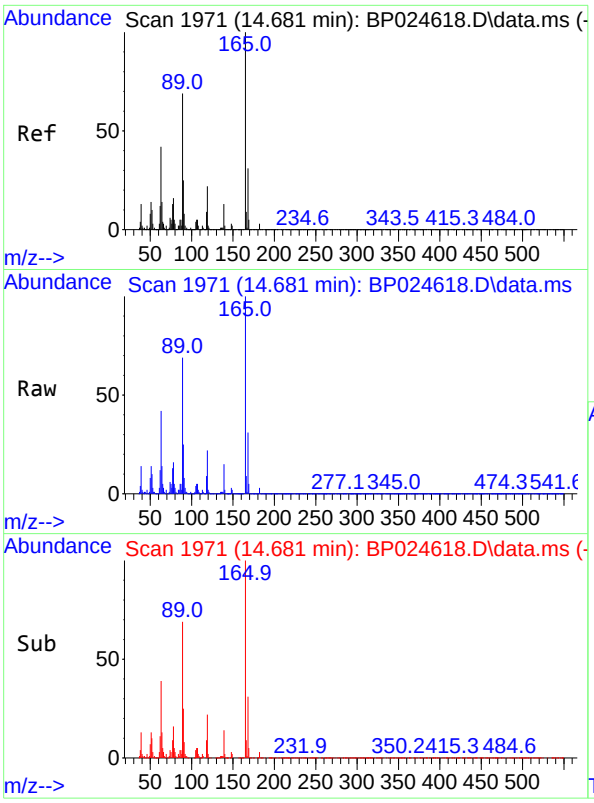


#56
4-Nitrophenol
Concen: 38.41 ng
RT: 14.551 min Scan# 1949
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:139 Resp: 186112

Ion	Ratio	Lower	Upper
139	100		
109	81.4	61.4	101.4
65	92.2	72.2	112.2

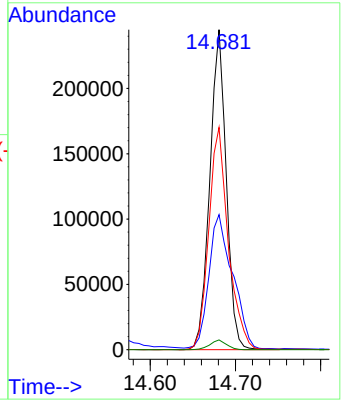




#57
2,4-Dinitrotoluene
Concen: 40.02 ng
RT: 14.681 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

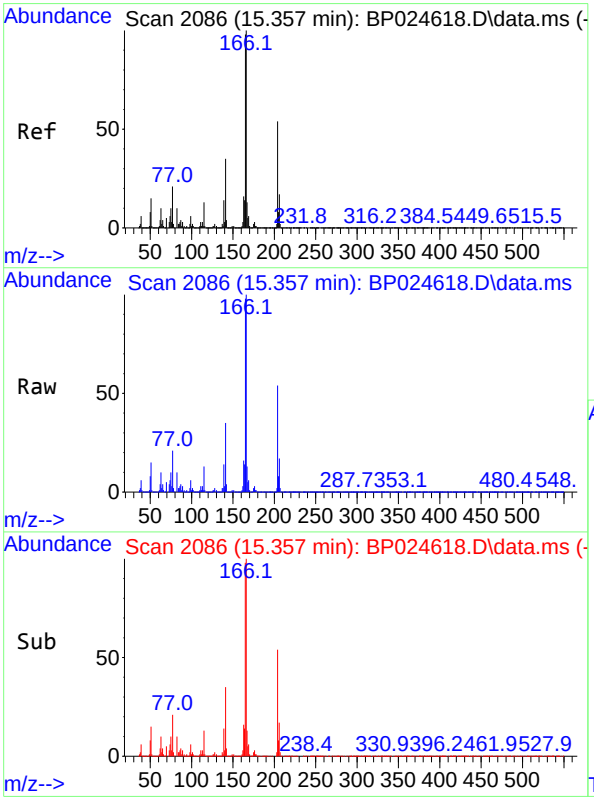
Tgt Ion:165 Resp: 32915

Ion	Ratio	Lower	Upper
165	100		
63	42.2	33.8	50.6
89	69.5	55.6	83.4
182	3.0	2.4	3.6



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

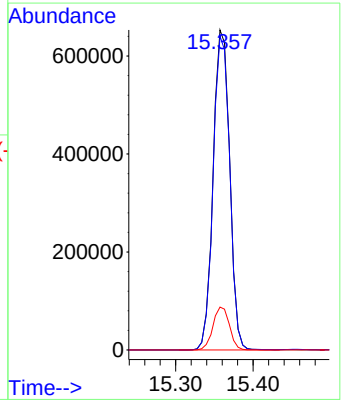
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

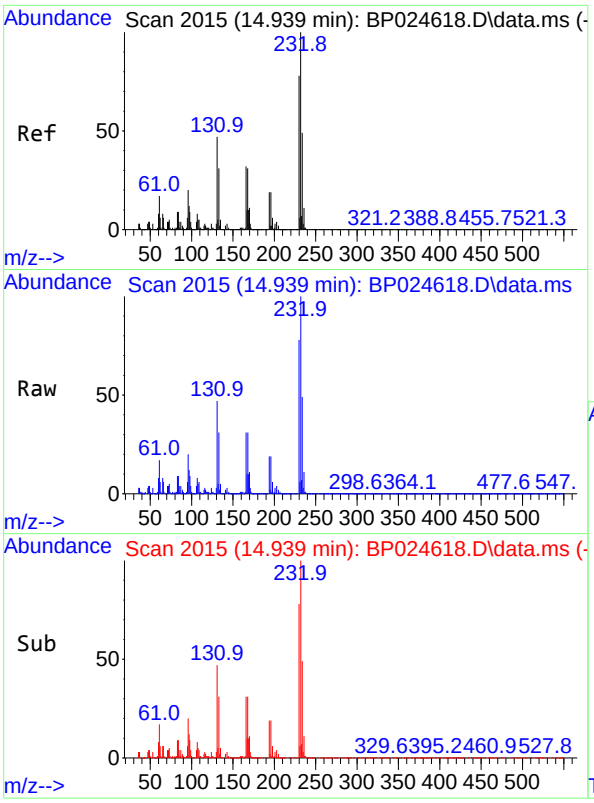


#58
Fluorene
Concen: 37.89 ng
RT: 15.357 min Scan# 2086
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:166 Resp: 968487

Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.5	117.7
167	13.4	10.7	16.1

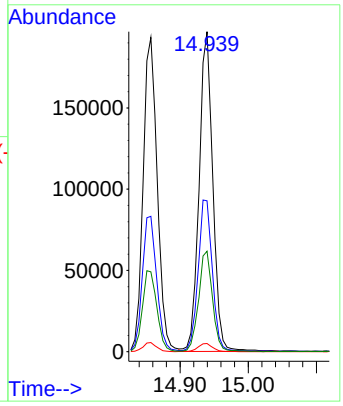




#59
2,3,4,6-Tetrachlorophenol
Concen: 38.98 ng
RT: 14.939 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:232 Resp: 27438

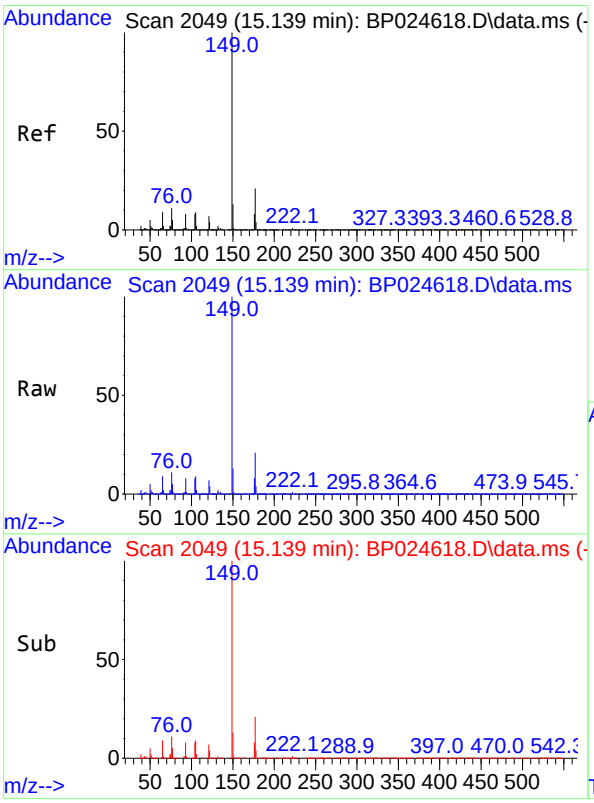
Ion	Ratio	Lower	Upper
232	100		
131	49.4	39.5	59.3
130	2.8	2.2	3.4
166	32.1	25.7	38.5



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

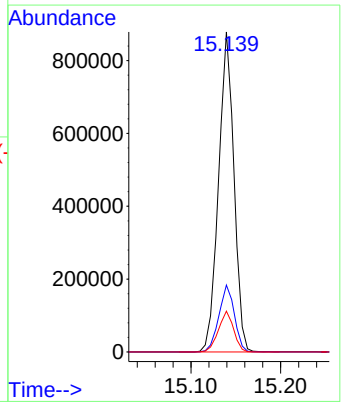
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

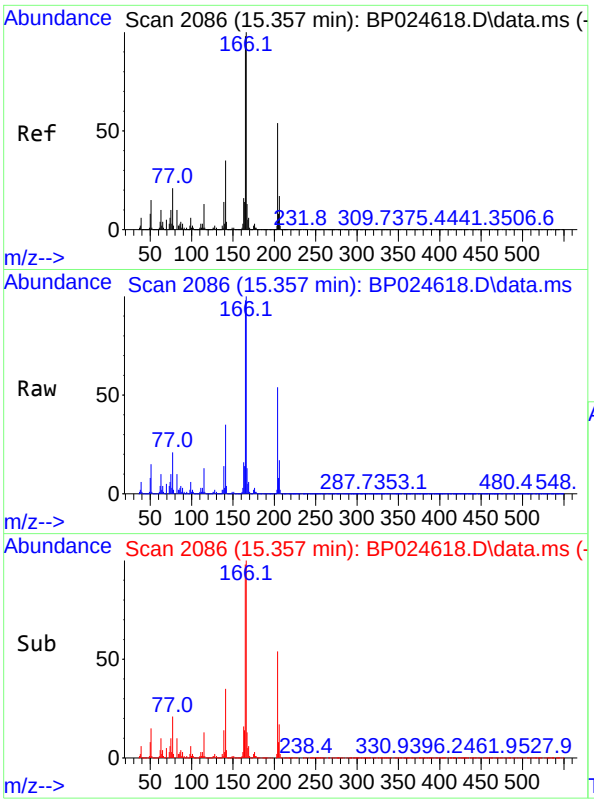


#60
Diethylphthalate
Concen: 37.48 ng
RT: 15.139 min Scan# 2049
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:149 Resp: 1046478

Ion	Ratio	Lower	Upper
149	100		
177	20.9	16.7	25.1
150	12.7	10.2	15.2

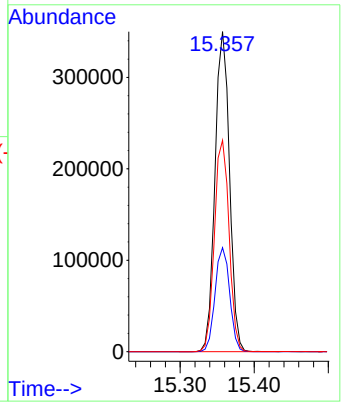




#61
4-Chlorophenyl-phenylether
Concen: 37.29 ng
RT: 15.357 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:204 Resp: 47532

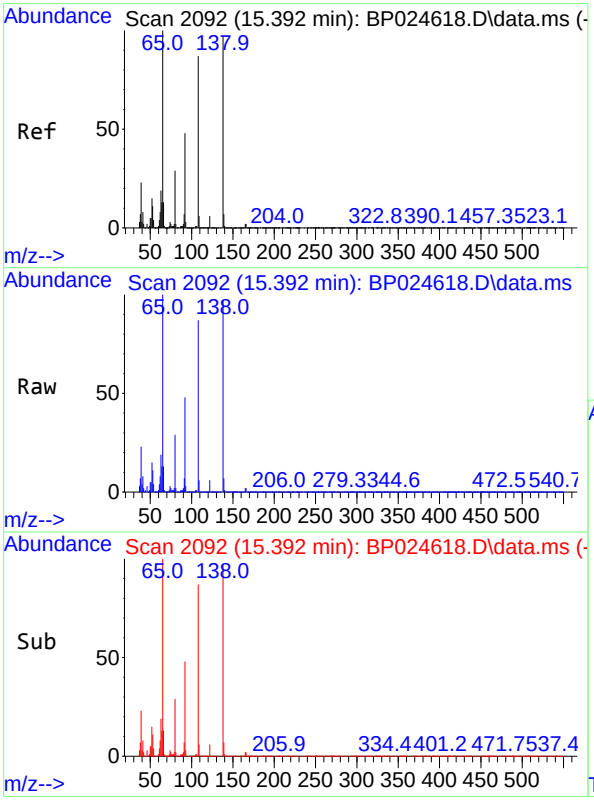
Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.0	39.0
141	66.1	52.9	79.3



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

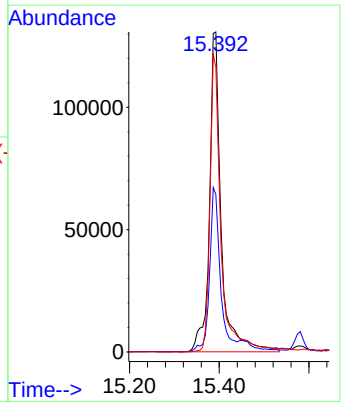
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

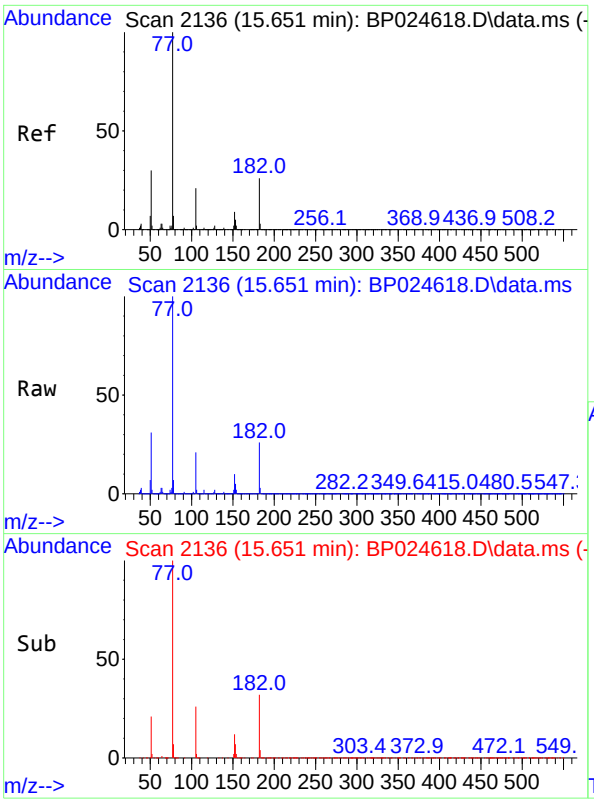


#62
4-Nitroaniline
Concen: 41.24 ng
RT: 15.392 min Scan# 2092
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:138 Resp: 239212

Ion	Ratio	Lower	Upper
138	100		
92	49.2	29.2	69.2
108	89.0	69.0	109.0

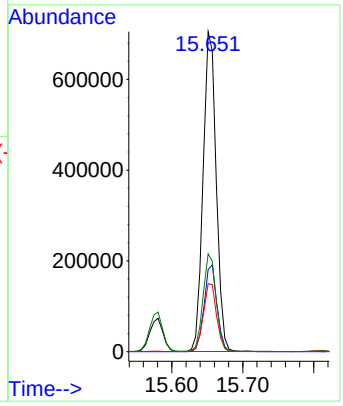




#63
Azobenzene
Concen: 37.94 ng
RT: 15.651 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 77 Resp: 90627

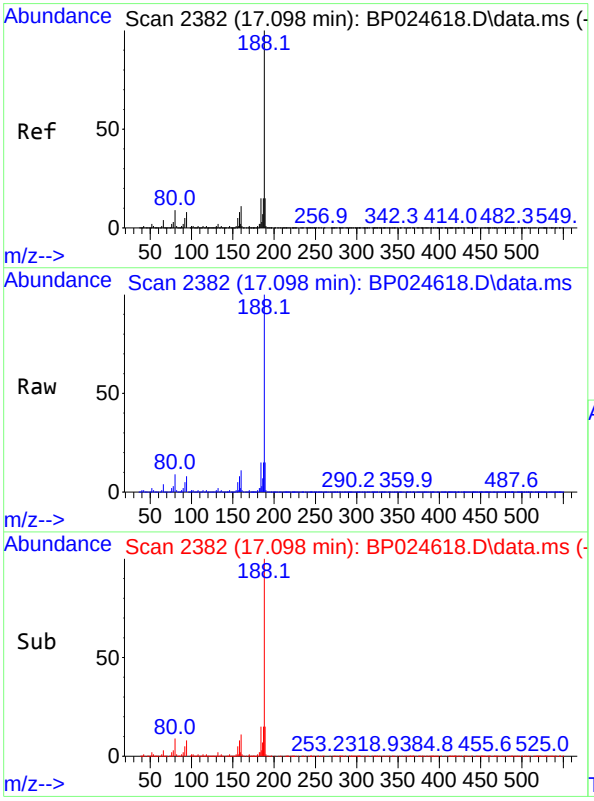
Ion	Ratio	Lower	Upper
77	100		
182	25.7	5.7	45.7
105	21.3	1.3	41.3
51	30.6	10.6	50.6



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

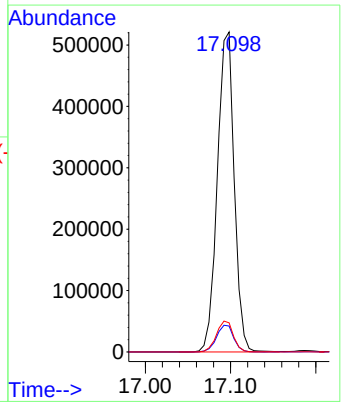
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

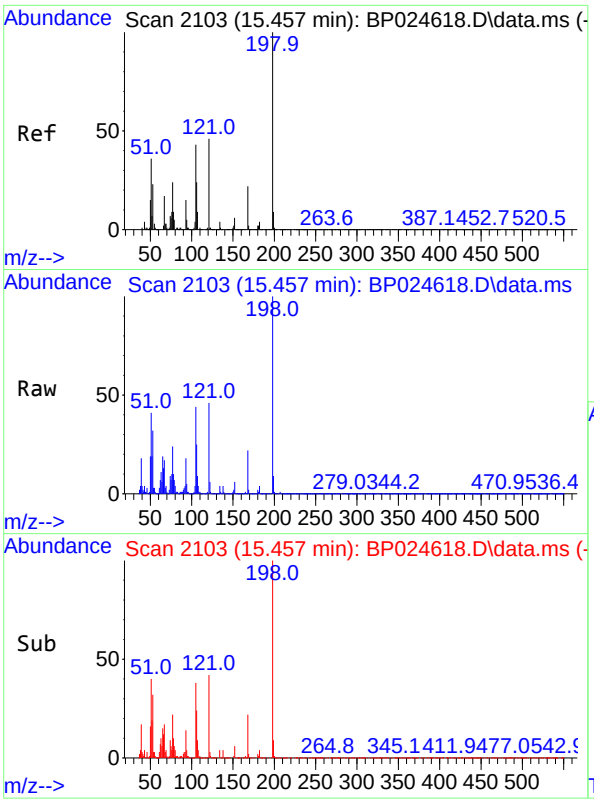


#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.098 min Scan# 2382
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:188 Resp: 717362

Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.5	9.7
80	9.1	7.3	10.9





#65
4,6-Dinitro-2-methylphenol
Concen: 39.84 ng
RT: 15.457 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

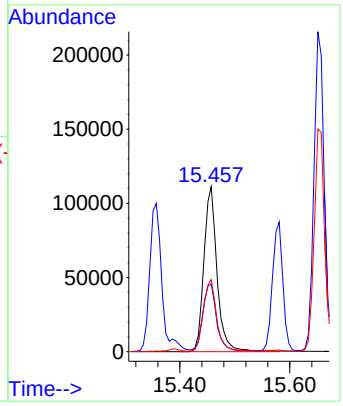
Tgt Ion:198 Resp: 18459

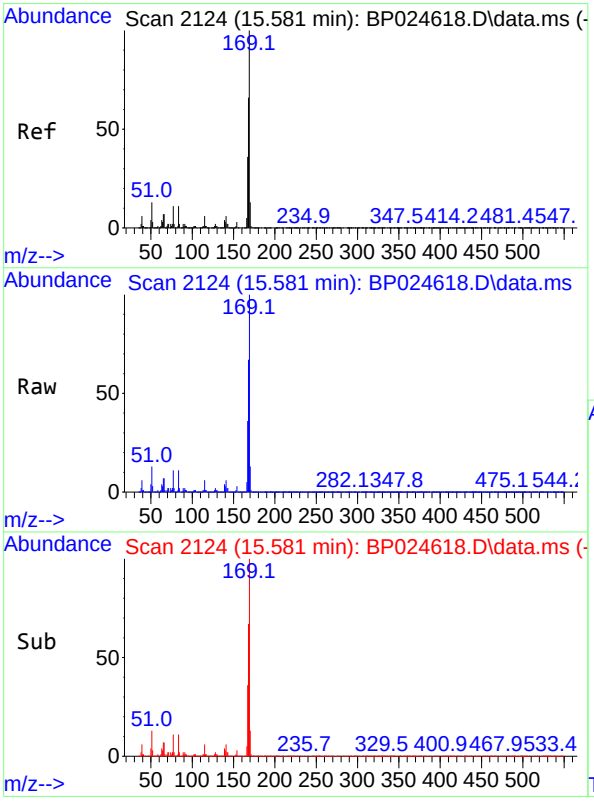
Ion	Ratio	Lower	Upper
198	100		
51	41.1	21.1	61.1
105	43.6	23.6	63.6

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

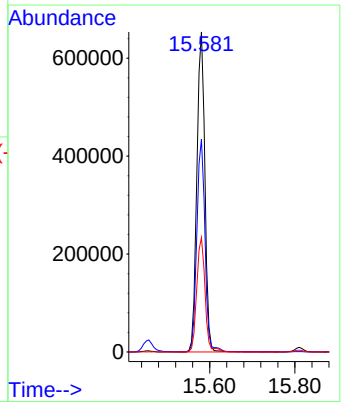


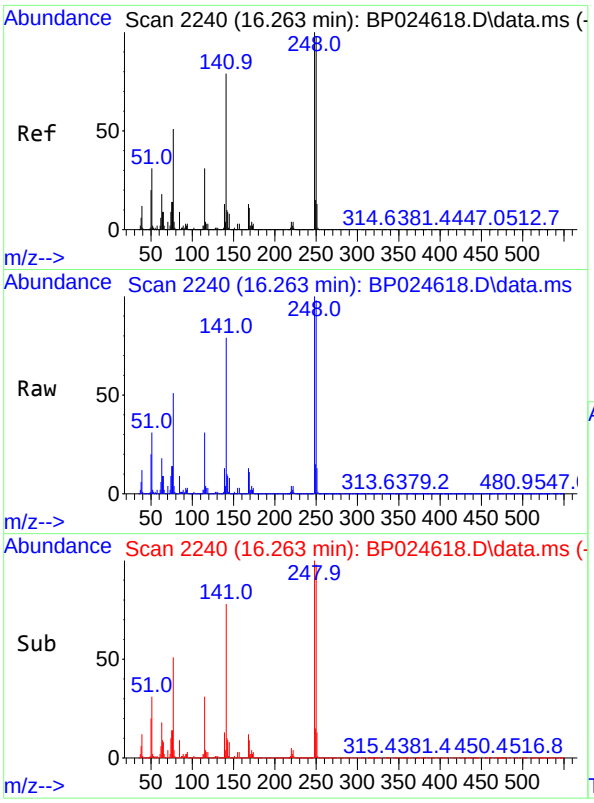


#66
n-Nitrosodiphenylamine
Concen: 38.63 ng
RT: 15.581 min Scan# 2124
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:169 Resp: 851188

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.2	79.8
167	35.8	28.6	43.0





#67
4-Bromophenyl-phenylether
Concen: 38.28 ng
RT: 16.263 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

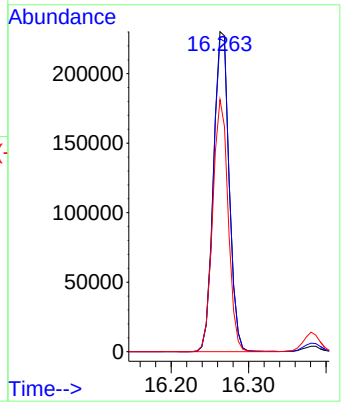
Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

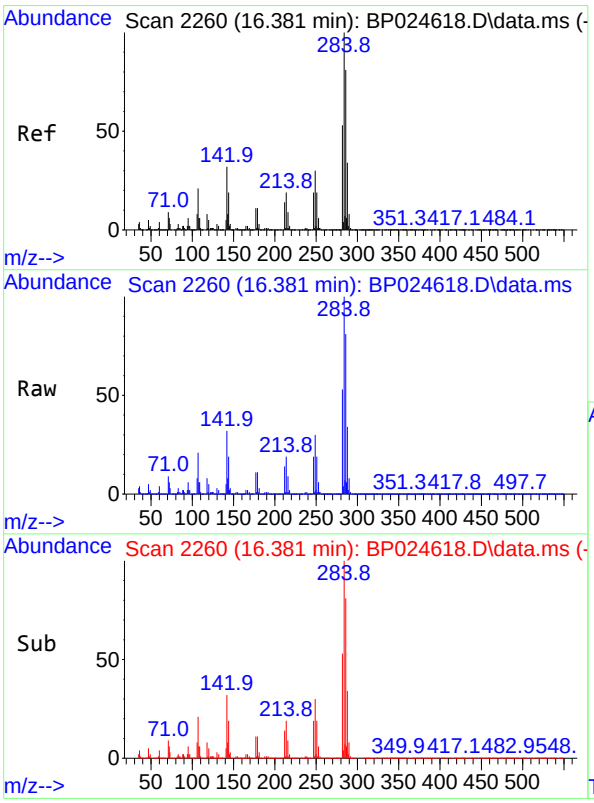
Tgt Ion:248 Resp: 32355

Ion	Ratio	Lower	Upper
248	100		
250	97.8	78.2	117.4
141	78.8	63.0	94.6

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

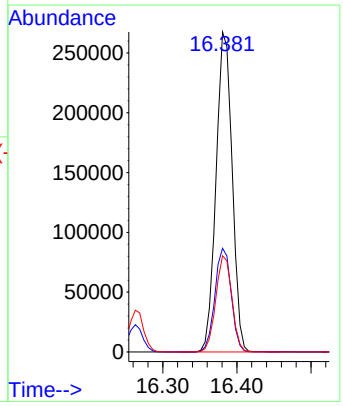


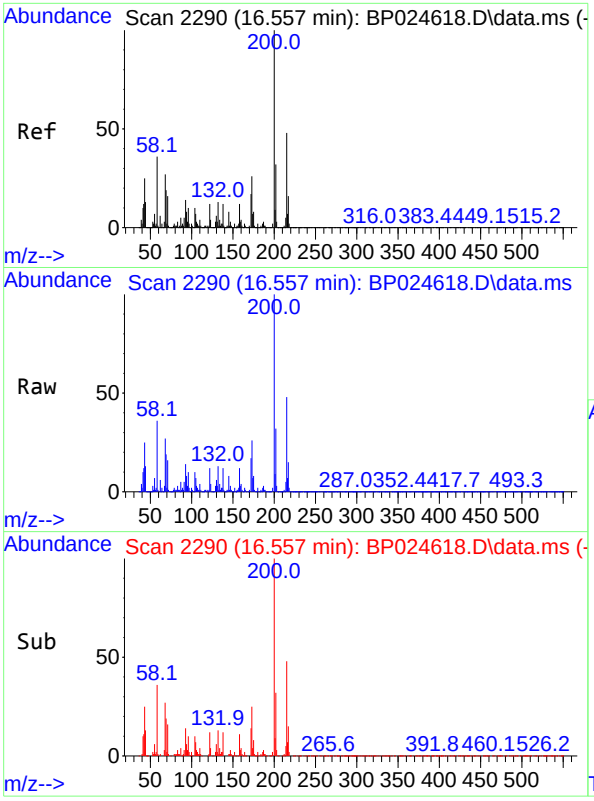


#68
Hexachlorobenzene
Concen: 37.60 ng
RT: 16.381 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:284 Resp: 403916

Ion	Ratio	Lower	Upper
284	100		
142	32.4	25.9	38.9
249	30.1	24.1	36.1

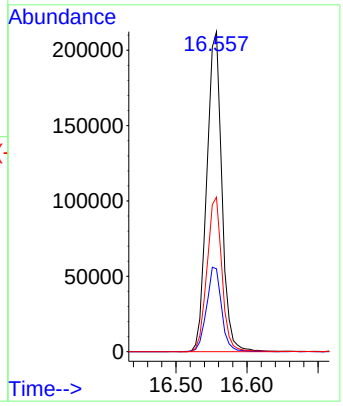




#69
Atrazine
Concen: 38.67 ng
RT: 16.557 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:200 Resp: 31222

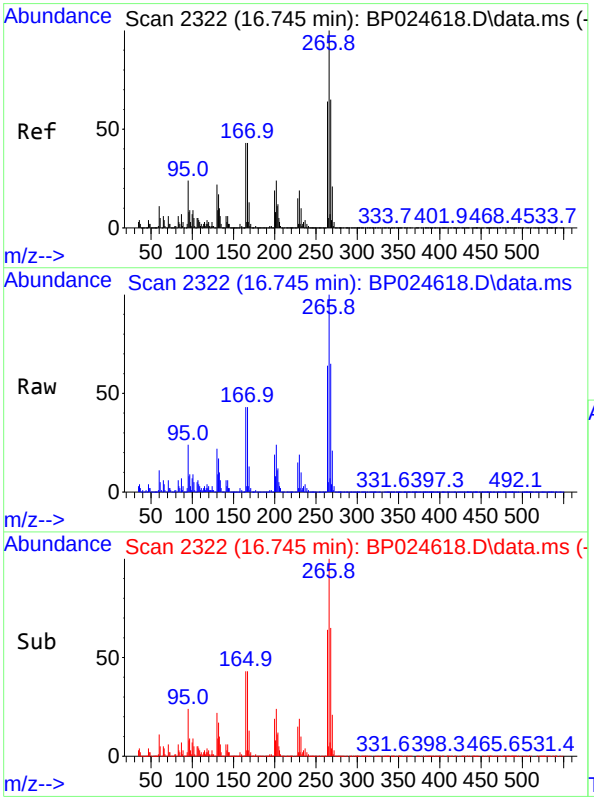
Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.9	45.9
215	48.3	28.3	68.3



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

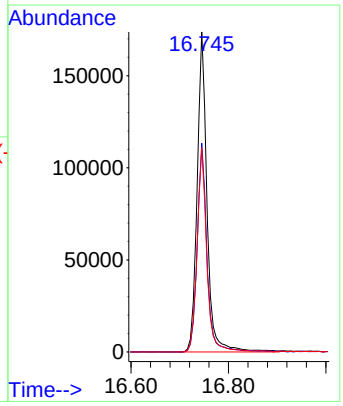
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

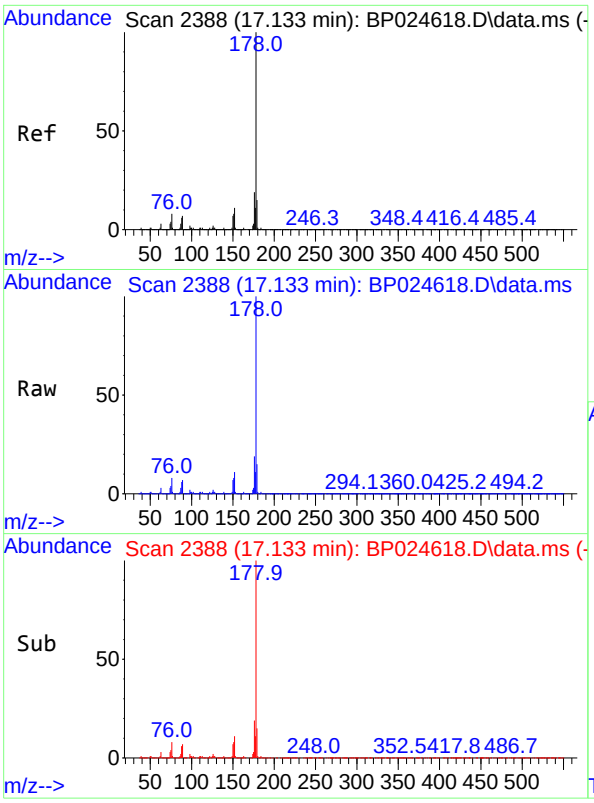


#70
Pentachlorophenol
Concen: 40.91 ng
RT: 16.745 min Scan# 2322
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:266 Resp: 246828

Ion	Ratio	Lower	Upper
266	100		
268	65.3	52.2	78.4
264	63.9	51.1	76.7

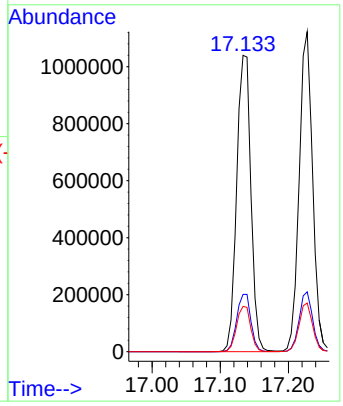




#71
Phenanthrene
Concen: 37.80 ng
RT: 17.133 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:178 Resp: 150760

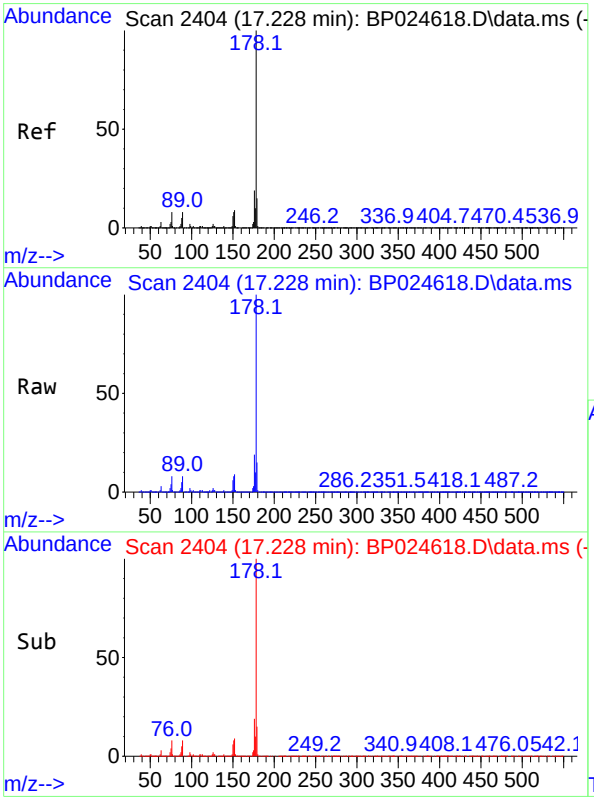
Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.3	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

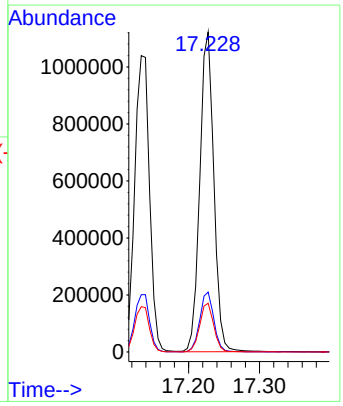
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

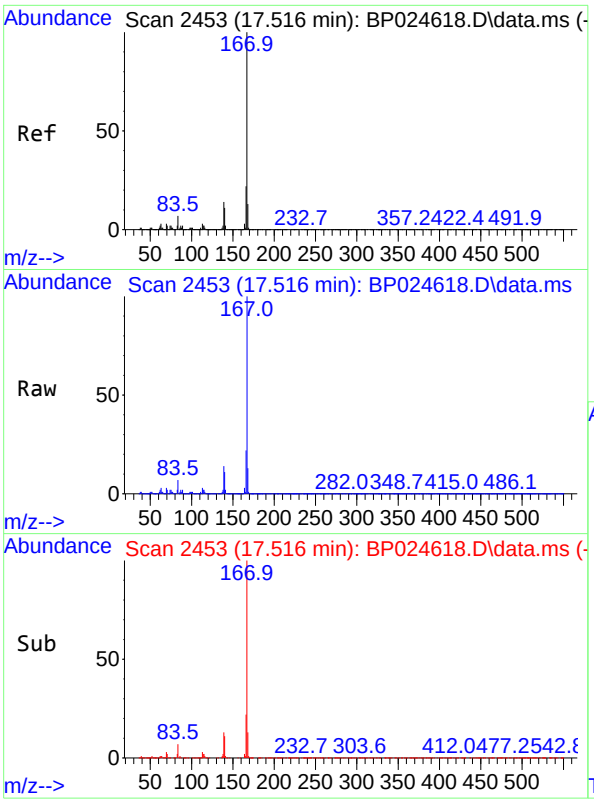


#72
Anthracene
Concen: 38.44 ng
RT: 17.228 min Scan# 2404
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:178 Resp: 1542275

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.2	12.2	18.2

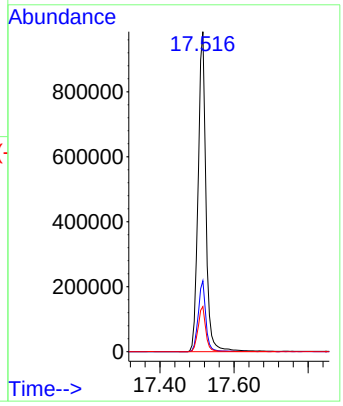




#73
Carbazole
Concen: 39.55 ng
RT: 17.516 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:167 Resp: 143629

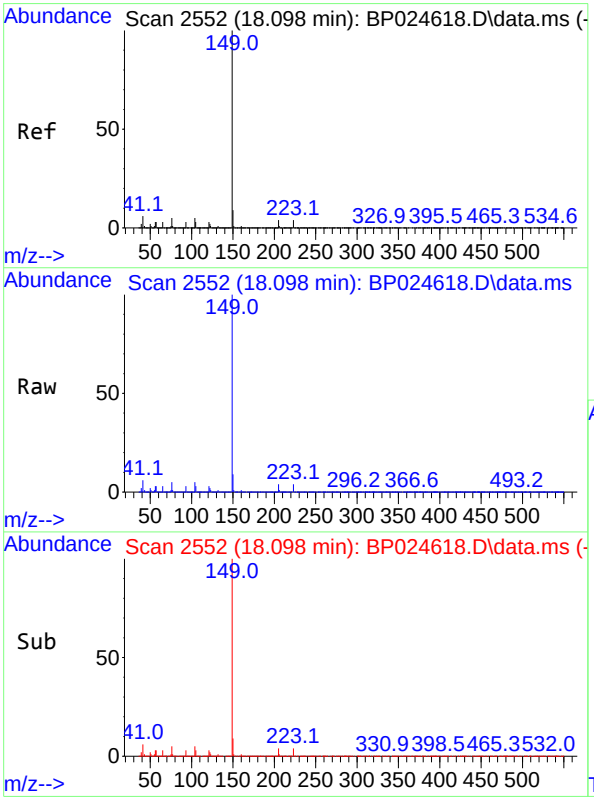
Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.7	26.5
139	14.1	11.3	16.9



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

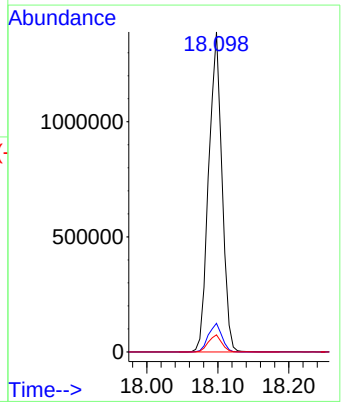
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

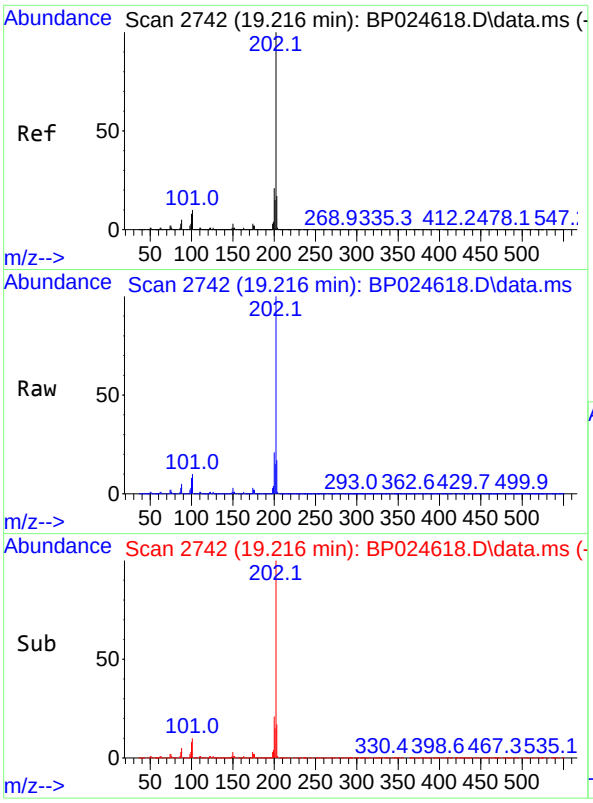


#74
Di-n-butylphthalate
Concen: 38.69 ng
RT: 18.098 min Scan# 2552
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:149 Resp: 1807097

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.2	10.8
104	5.4	4.3	6.5

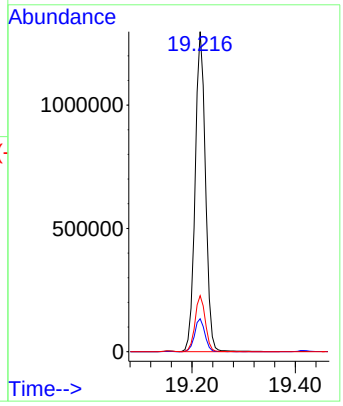




#75
Fluoranthene
Concen: 38.49 ng
RT: 19.216 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:202 Resp: 179404

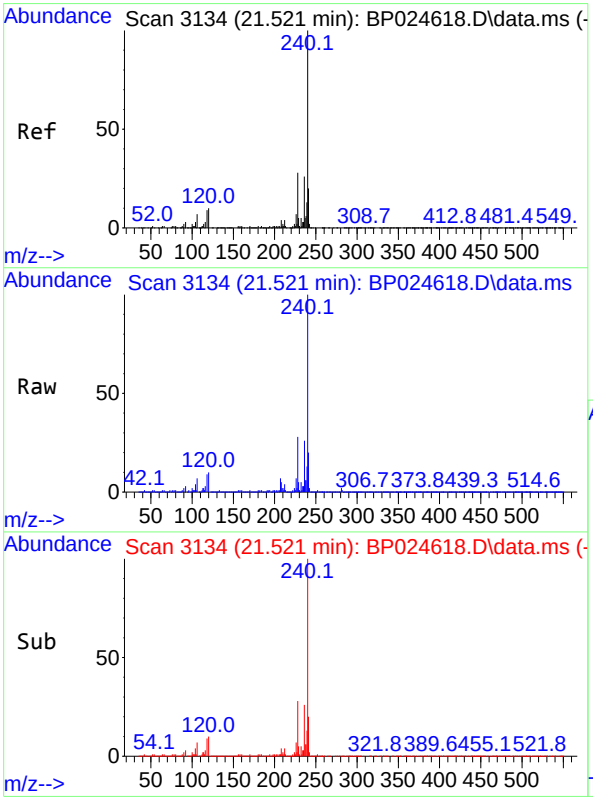
Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	30.3
203	17.5	0.0	37.5



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

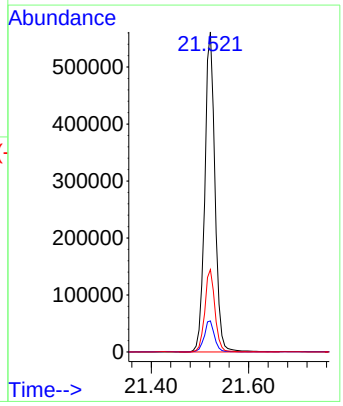
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

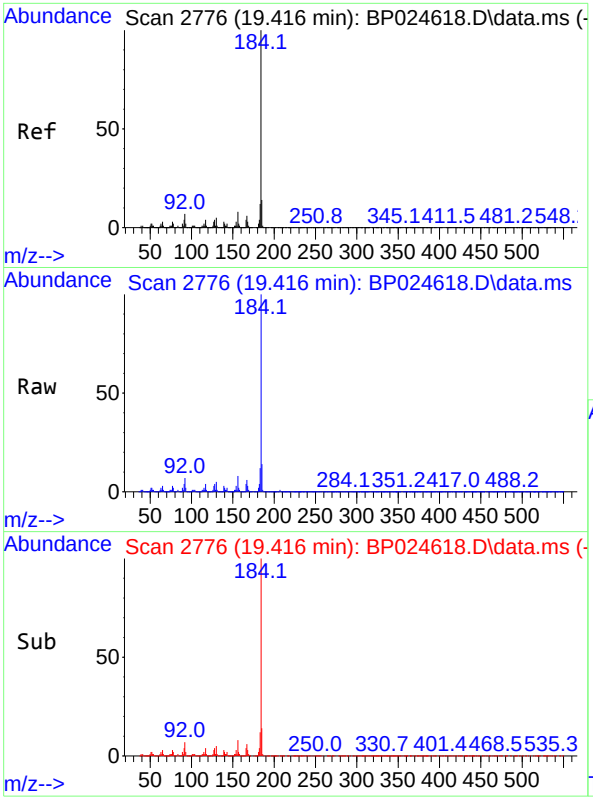


#76
Chrysene-d12
Concen: 20.00 ng
RT: 21.521 min Scan# 3134
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:240 Resp: 810498

Ion	Ratio	Lower	Upper
240	100		
120	9.7	7.8	11.6
236	25.8	20.6	31.0

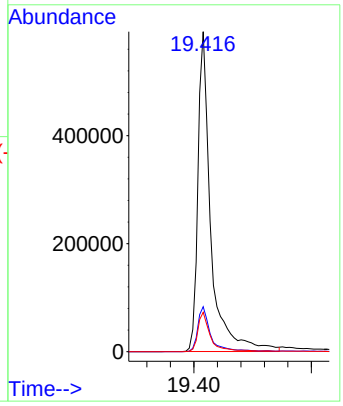




#77
Benzidine
Concen: 40.77 ng
RT: 19.416 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:184 Resp: 90710

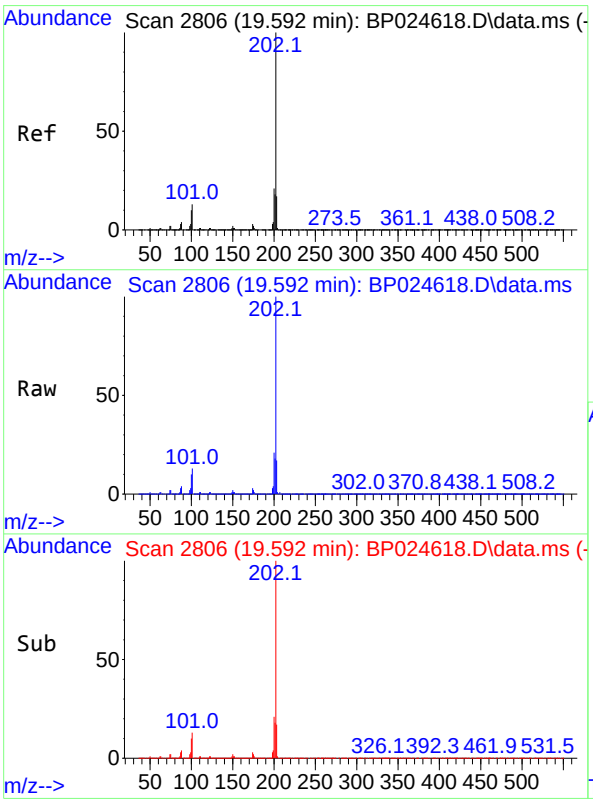
Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.2	16.8
183	12.3	9.8	14.8



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

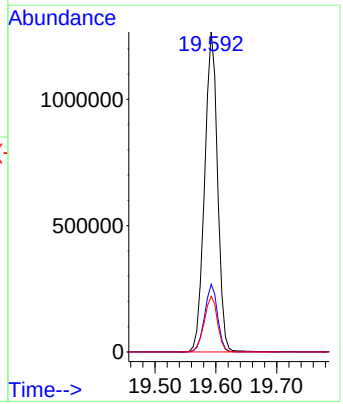
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

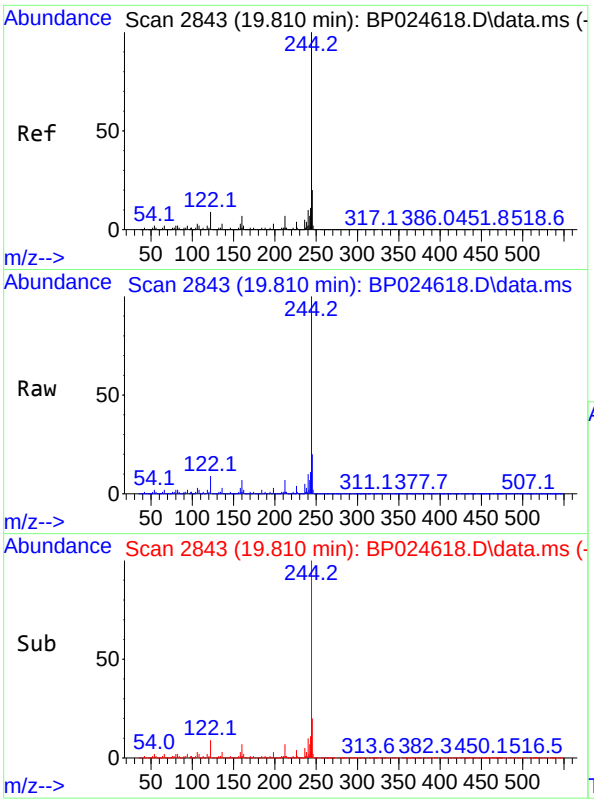


#78
Pyrene
Concen: 38.50 ng
RT: 19.592 min Scan# 2806
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:202 Resp: 1869519

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.4	13.9	20.9

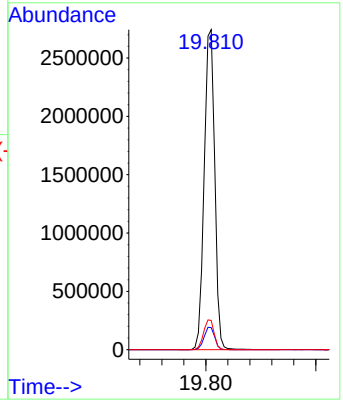




#79
Terphenyl-d14
Concen: 77.18 ng
RT: 19.810 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

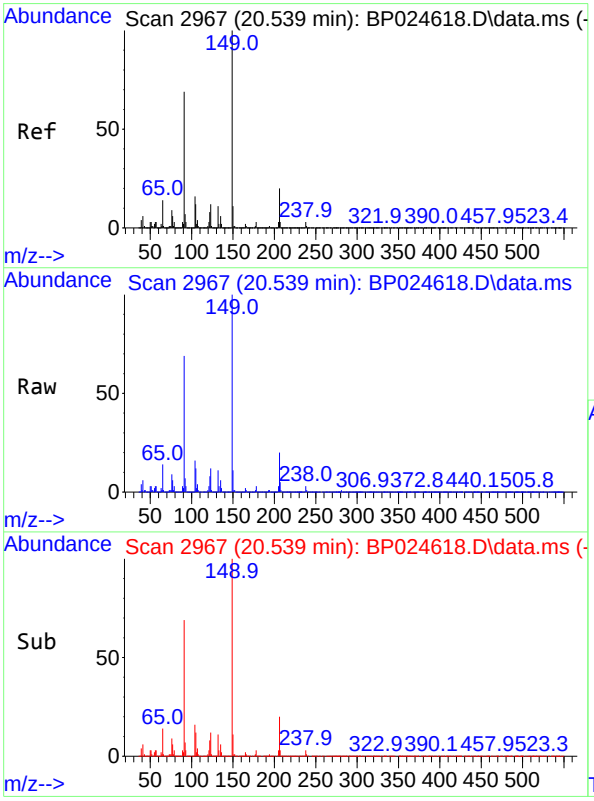
Tgt Ion:244 Resp: 364796

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.5	8.3
122	9.2	7.4	11.0



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

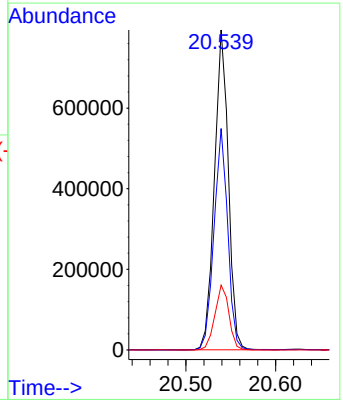
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

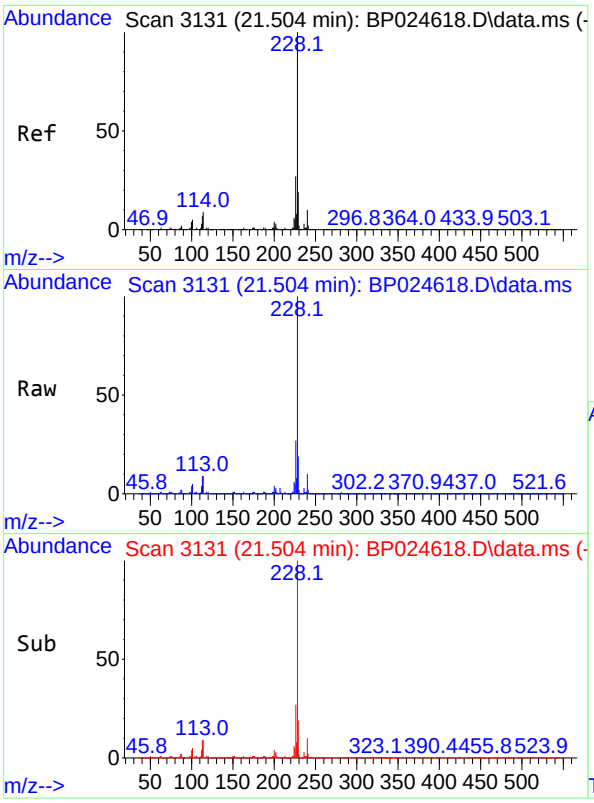


#80
Butylbenzylphthalate
Concen: 39.58 ng
RT: 20.539 min Scan# 2967
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:149 Resp: 854913

Ion	Ratio	Lower	Upper
149	100		
91	69.2	55.4	83.0
206	20.2	16.2	24.2

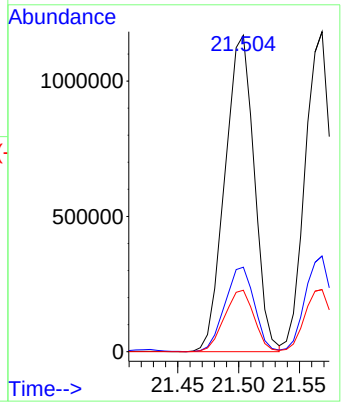




#81
Benzo(a)anthracene
Concen: 38.47 ng
RT: 21.504 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:228 Resp: 195763

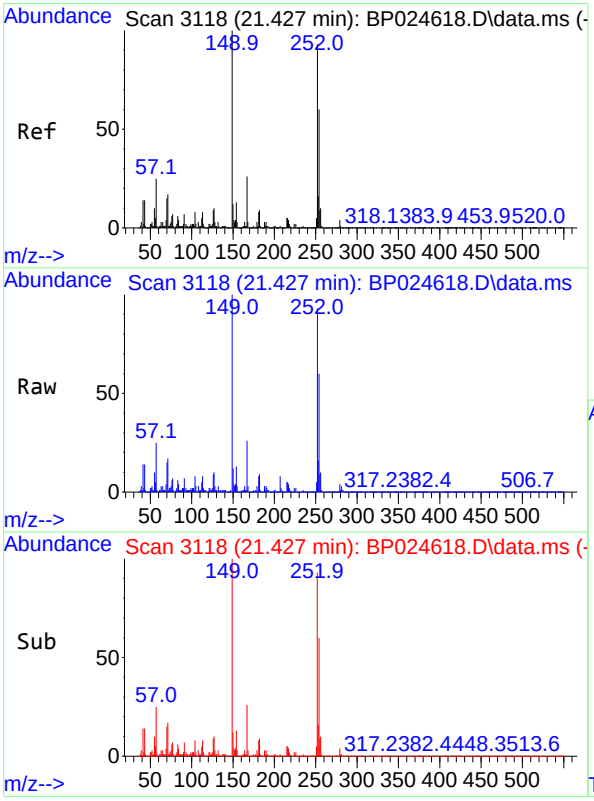
Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.4	32.0
229	19.4	15.5	23.3



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

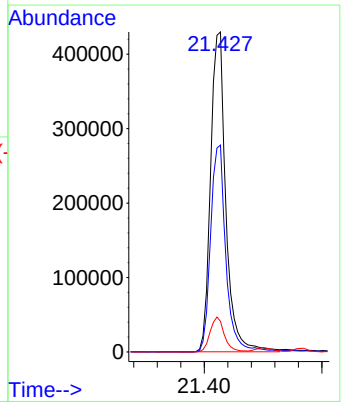
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

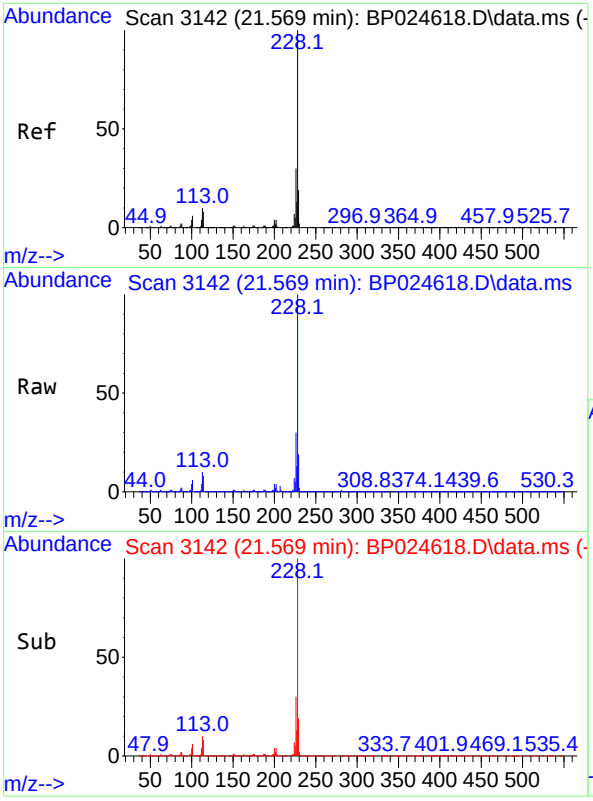


#82
3,3'-Dichlorobenzidine
Concen: 40.94 ng
RT: 21.427 min Scan# 3118
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:252 Resp: 773866

Ion	Ratio	Lower	Upper
252	100		
254	64.7	51.8	77.6
126	9.6	7.7	11.5

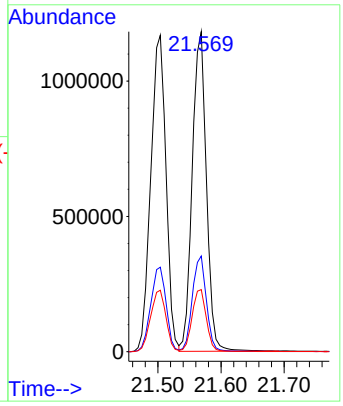




#83
Chrysene
Concen: 38.01 ng
RT: 21.569 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:228 Resp: 183395

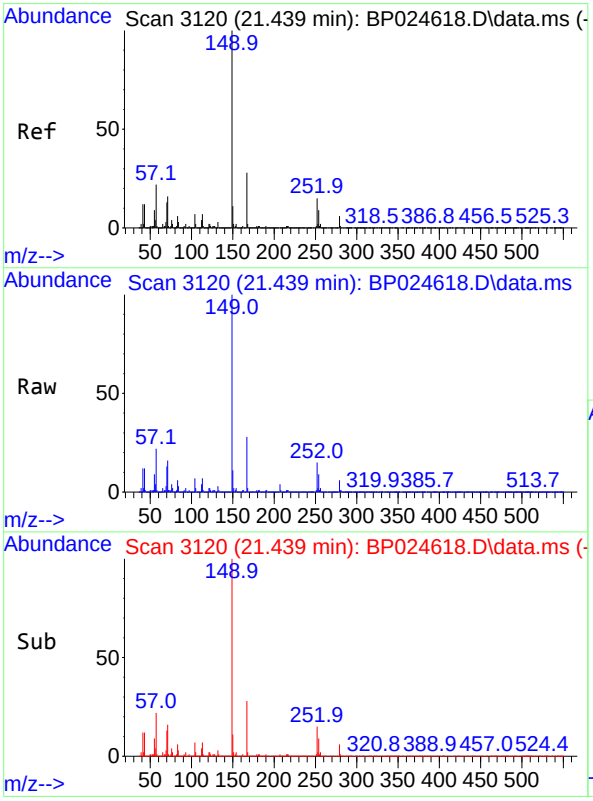
Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.9	35.9
229	19.4	15.5	23.3



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

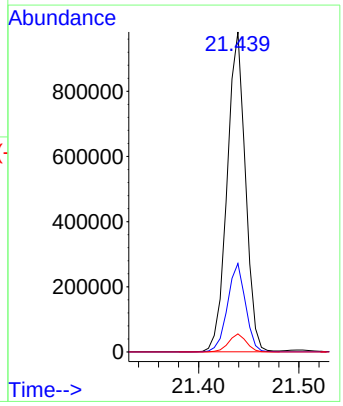
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

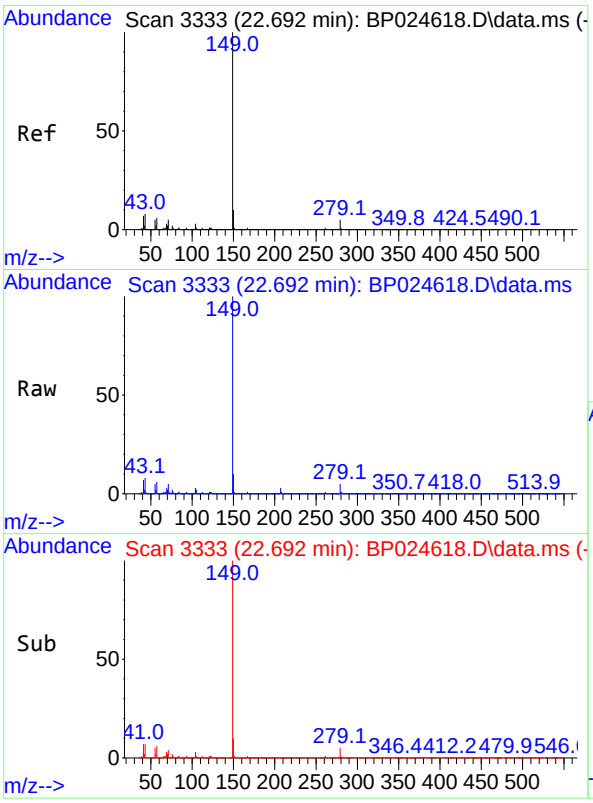


#84
Bis(2-ethylhexyl)phthalate
Concen: 39.09 ng
RT: 21.439 min Scan# 3120
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:149 Resp: 1240956

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.1	33.1
279	5.7	4.6	6.8

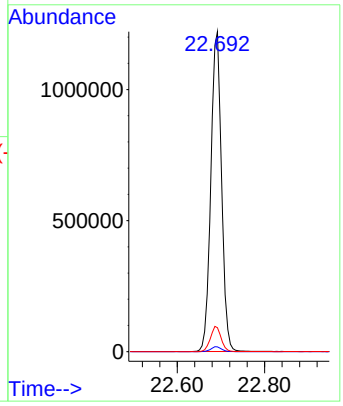




#85
Di-n-octyl phthalate
Concen: 39.97 ng
RT: 22.692 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:149 Resp: 207469

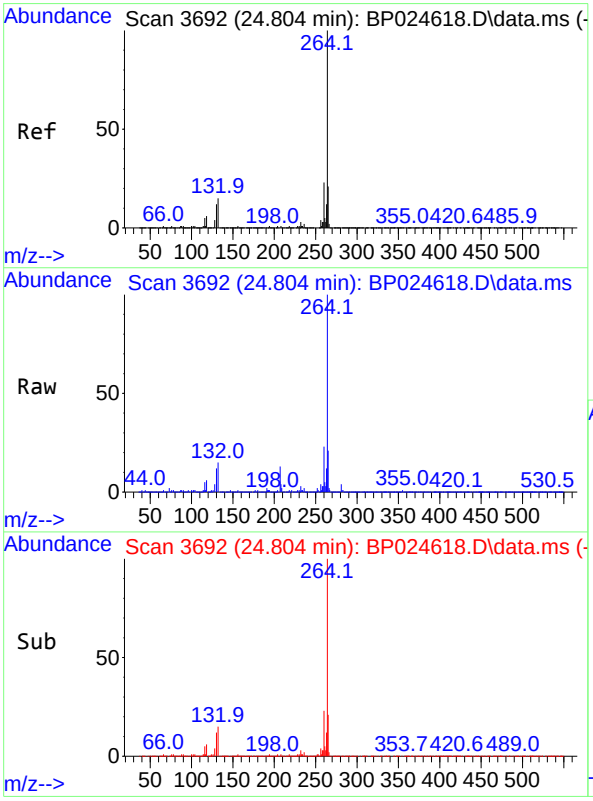
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	7.9	6.3	9.5



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

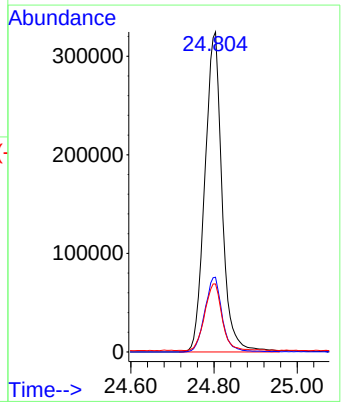
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

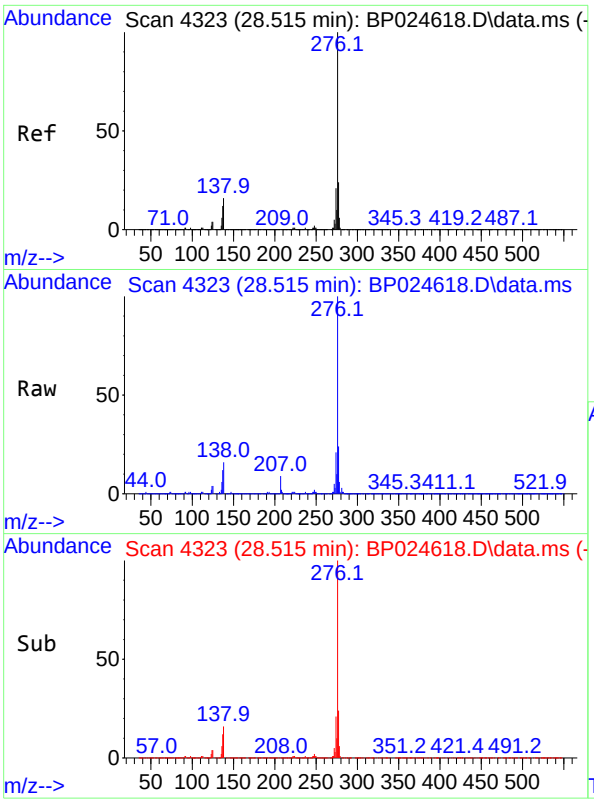


#86
Perylene-d12
Concen: 20.00 ng
RT: 24.804 min Scan# 3692
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:264 Resp: 929890

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.7	28.1
265	21.3	17.0	25.6

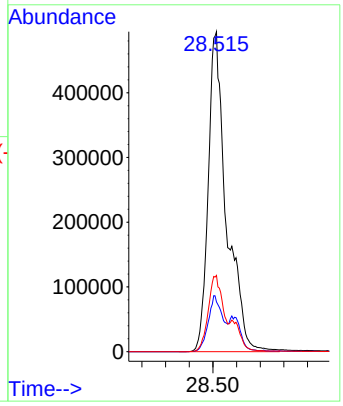




#87
Indeno(1,2,3-cd)pyrene
Concen: 39.00 ng
RT: 28.515 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:276 Resp: 264864

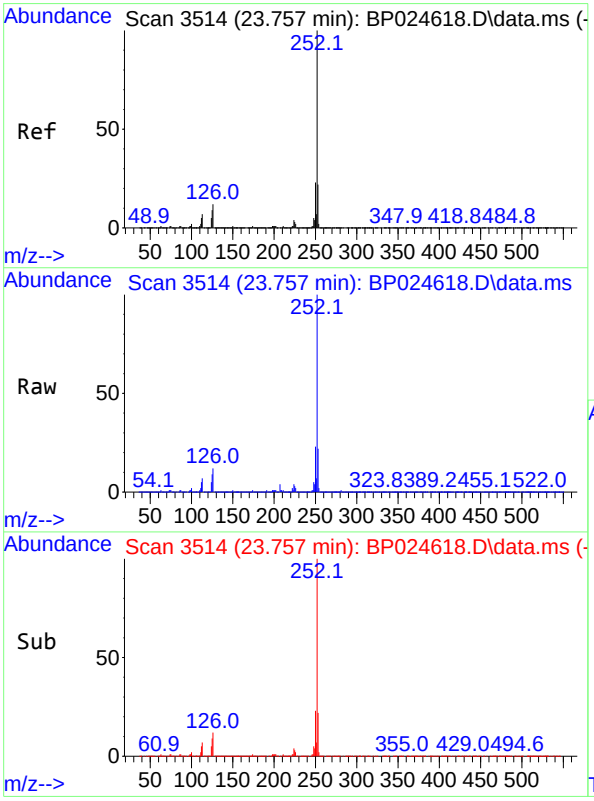
Ion	Ratio	Lower	Upper
276	100		
138	14.0	11.2	16.8
277	19.6	15.7	23.5



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

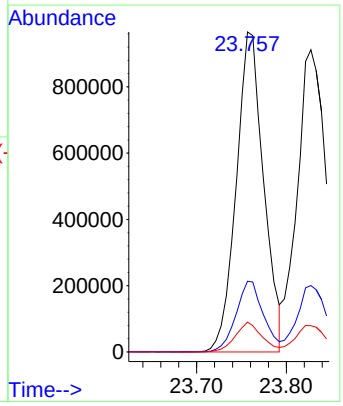
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

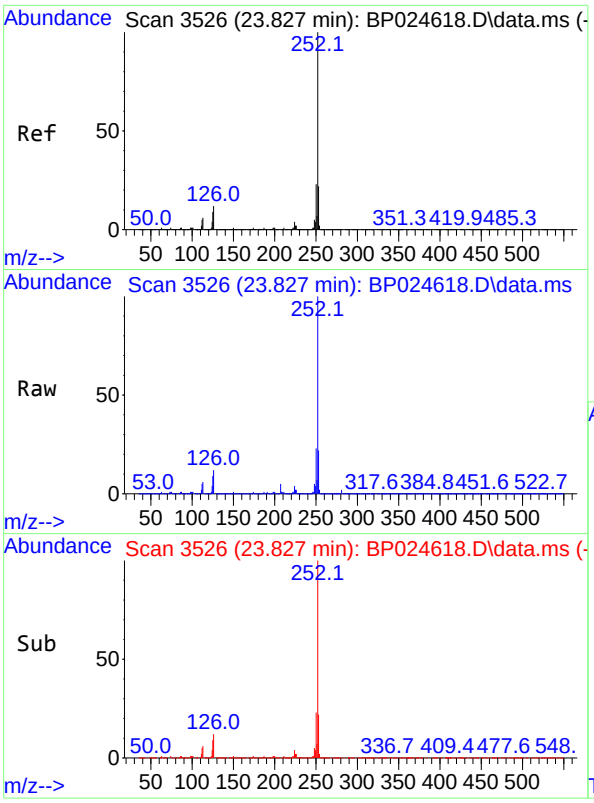


#88
Benzo(b)fluoranthene
Concen: 38.53 ng
RT: 23.757 min Scan# 3514
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:252 Resp: 2050806

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	9.4	7.5	11.3

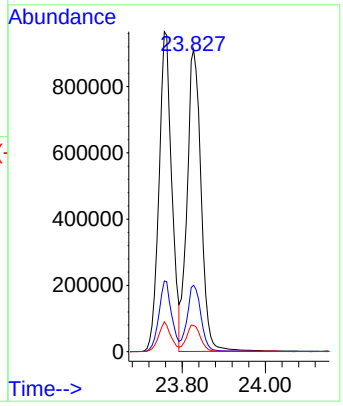




#89
Benzo(k)fluoranthene
Concen: 38.67 ng
RT: 23.827 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:252 Resp: 212072

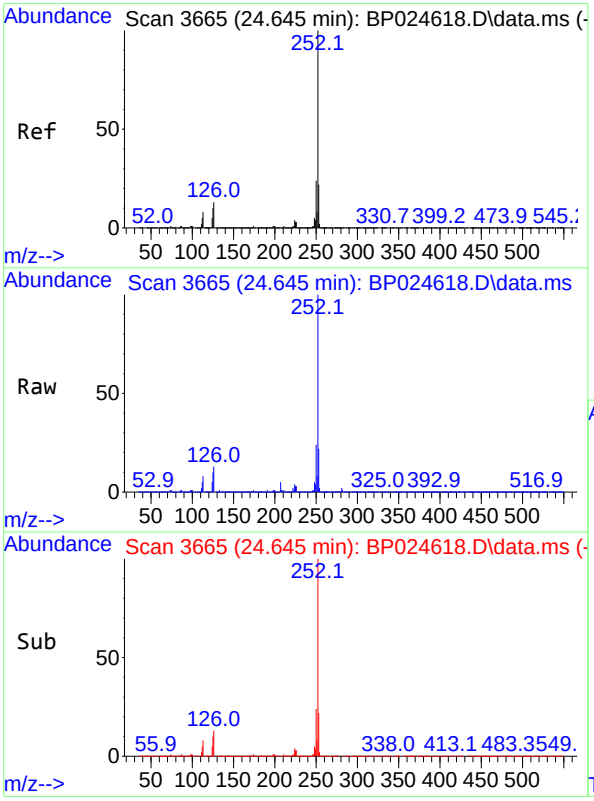
Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	8.7	7.0	10.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

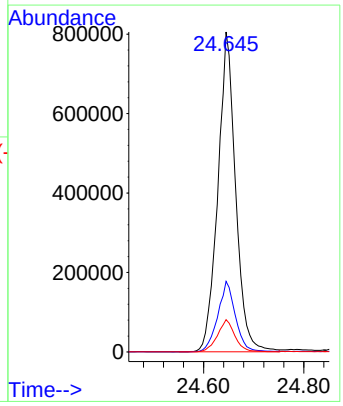
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

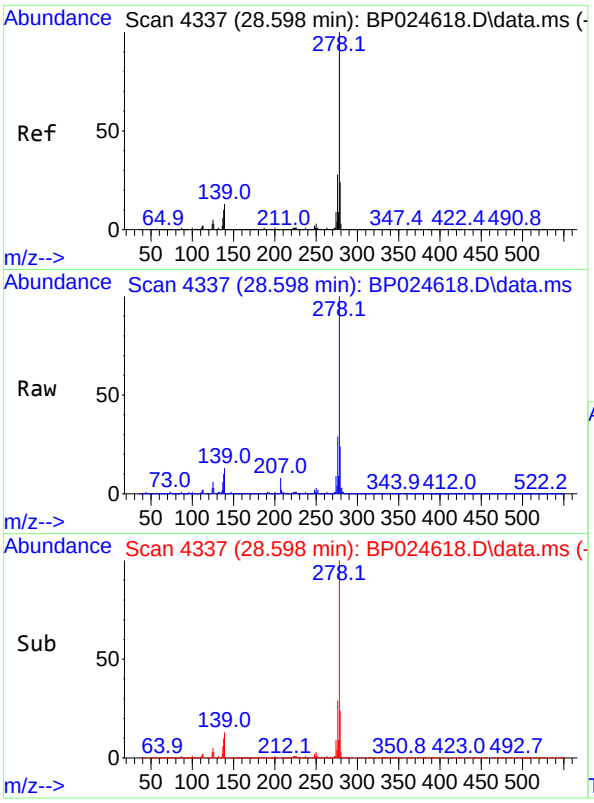


#90
Benzo(a)pyrene
Concen: 38.71 ng
RT: 24.645 min Scan# 3665
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:252 Resp: 1979017

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.1	8.1	12.1

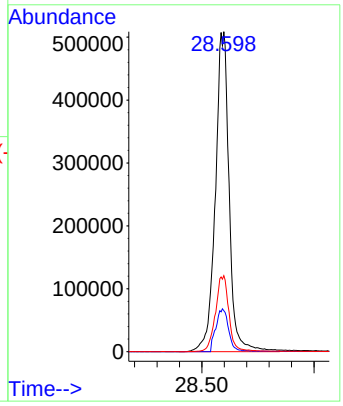




#91
Dibenzo(a,h)anthracene
Concen: 39.30 ng
RT: 28.598 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:278 Resp: 217071

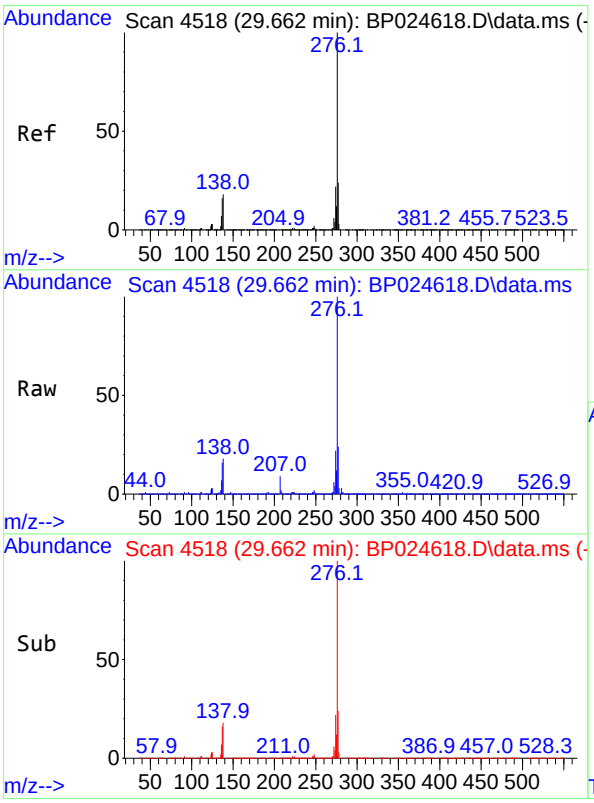
Ion	Ratio	Lower	Upper
278	100		
139	12.8	10.2	15.4
279	23.7	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

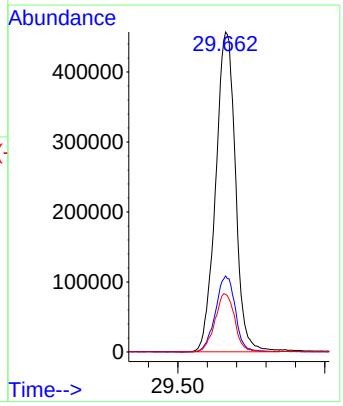
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025



#92
Benzo(g,h,i)perylene
Concen: 38.84 ng
RT: 29.662 min Scan# 4518
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:276 Resp: 2132921

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.4
138	18.0	14.4	21.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024619.D
Acq On : 13 May 2025 14:05
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Quant Time: May 13 16:07:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.663	152	111395	20.00	ng		0.00
21) Naphthalene-d8	10.434	136	489806	20.00	ng		0.00
39) Acenaphthene-d10	14.292	164	318760	20.00	ng		-0.01
64) Phenanthrene-d10	17.086	188	628781	20.00	ng		-0.01
76) Chrysene-d12	21.522	240	717340	20.00	ng		0.00
86) Perylene-d12	24.810	264	811421	20.00	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.287	112	708626	108.80	ng		0.00
7) Phenol-d6	6.852	99	930484	111.94	ng		0.00
23) Nitrobenzene-d5	8.810	82	1049445	108.26	ng		0.00
42) 2,4,6-Tribromophenol	15.810	330	587523	108.72	ng		0.00
45) 2-Fluorobiphenyl	12.904	172	2553765	104.96	ng		0.00
79) Terphenyl-d14	19.822	244	4398872	105.15	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.228	88	156571	51.20	ng		98
3) Pyridine	3.622	79	379522	55.97	ng		99
4) n-Nitrosodimethylamine	3.534	42	161654	54.00	ng		99
6) Aniline	7.005	93	593141	55.27	ng		99
8) 2-Chlorophenol	7.240	128	408016	55.19	ng		99
9) Benzaldehyde	6.822	77	290405	54.06	ng		100
10) Phenol	6.881	94	475413	55.41	ng		99
11) bis(2-Chloroethyl)ether	7.093	93	377787	53.59	ng		100
12) 1,3-Dichlorobenzene	7.552	146	451750	53.11	ng		99
13) 1,4-Dichlorobenzene	7.699	146	455796	53.28	ng		99
14) 1,2-Dichlorobenzene	8.010	146	439707	52.74	ng		100
15) Benzyl Alcohol	7.910	79	363689	57.58	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.181	45	450215	53.33	ng		98
17) 2-Methylphenol	8.110	107	347065	56.40	ng		98
18) Hexachloroethane	8.728	117	173580	52.95	ng		98
19) n-Nitroso-di-n-propyla...	8.463	70	318058	55.32	ng		99
20) 3+4-Methylphenols	8.440	107	474048	56.64	ng		98
22) Acetophenone	8.481	105	653878	53.44	ng	#	98
24) Nitrobenzene	8.852	77	456929	53.56	ng		99
25) Isophorone	9.375	82	921892	54.82	ng		99
26) 2-Nitrophenol	9.557	139	239844	57.38	ng		98
27) 2,4-Dimethylphenol	9.628	122	402585	54.62	ng		99
28) bis(2-Chloroethoxy)met...	9.852	93	542581	54.01	ng		100
29) 2,4-Dichlorophenol	10.099	162	400983	56.14	ng		98
30) 1,2,4-Trichlorobenzene	10.299	180	424561	52.75	ng		97
31) Naphthalene	10.481	128	1336265	52.65	ng		100
32) Benzoic acid	9.787	122	263657	50.71	ng		99
33) 4-Chloroaniline	10.599	127	569812	55.63	ng		99
34) Hexachlorobutadiene	10.769	225	271578	52.09	ng		99
35) Caprolactam	11.393	113	148586	57.53	ng		98
36) 4-Chloro-3-methylphenol	11.734	107	478787	54.97	ng		99
37) 2-Methylnaphthalene	12.093	142	873274	53.13	ng		99
38) 1-Methylnaphthalene	12.316	142	919827	52.31	ng		98
40) 1,2,4,5-Tetrachloroben...	12.469	216	497848	53.78	ng		100
41) Hexachlorocyclopentadiene	12.446	237	334752	59.64	ng		96
43) 2,4,6-Trichlorophenol	12.716	196	341059	56.89	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024619.D
Acq On : 13 May 2025 14:05
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Quant Time: May 13 16:07:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

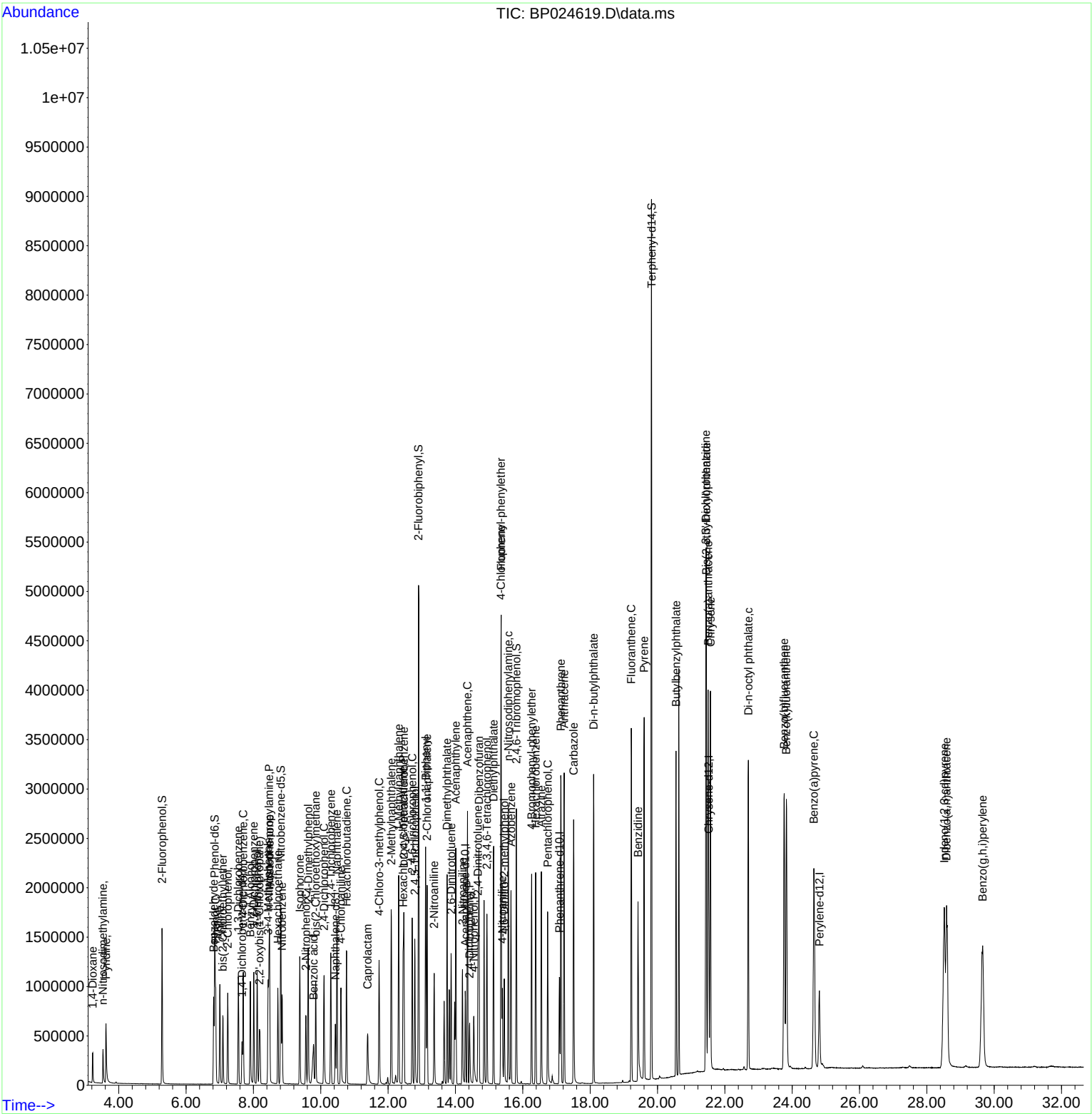
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.793	196	375330	56.24	ng	98
46) 1,1'-Biphenyl	13.116	154	1263640	53.64	ng	100
47) 2-Chloronaphthalene	13.157	162	952857	53.04	ng	99
48) 2-Nitroaniline	13.369	65	303475	57.06	ng	99
49) Acenaphthylene	14.010	152	1616938	53.79	ng	100
50) Dimethylphthalate	13.751	163	1283491	52.83	ng	99
51) 2,6-Dinitrotoluene	13.875	165	281728	54.91	ng	99
52) Acenaphthene	14.357	154	923238	53.42	ng	100
53) 3-Nitroaniline	14.210	138	302341	57.71	ng	99
54) 2,4-Dinitrophenol	14.422	184	159888	51.86	ng	98
55) Dibenzofuran	14.698	168	1447333	52.50	ng	99
56) 4-Nitrophenol	14.545	139	238294	53.99	ng	99
57) 2,4-Dinitrotoluene	14.669	165	404684	55.94	ng	98
58) Fluorene	15.357	166	1190632	52.97	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.934	232	341204	55.11	ng	100
60) Diethylphthalate	15.134	149	1305791	53.18	ng	99
61) 4-Chlorophenyl-phenyle...	15.351	204	590421	52.67	ng	97
62) 4-Nitroaniline	15.392	138	298681	58.55	ng	99
63) Azobenzene	15.651	77	1121556	53.39	ng	98
65) 4,6-Dinitro-2-methylph...	15.451	198	234095	57.64	ng	98
66) n-Nitrosodiphenylamine	15.569	169	1048396	54.28	ng	99
67) 4-Bromophenyl-phenylether	16.263	248	396385	53.50	ng	99
68) Hexachlorobenzene	16.381	284	504987	53.64	ng	99
69) Atrazine	16.551	200	389749	55.07	ng	100
70) Pentachlorophenol	16.739	266	310477	58.71	ng	98
71) Phenanthrene	17.128	178	1838891	52.61	ng	100
72) Anthracene	17.228	178	1894573	53.87	ng	100
73) Carbazole	17.510	167	1750681	55.00	ng	100
74) Di-n-butylphthalate	18.104	149	2275163	55.58	ng	100
75) Fluoranthene	19.222	202	2199818	53.84	ng	100
77) Benzidine	19.422	184	1178505	59.85	ng	99
78) Pyrene	19.604	202	2282702	53.11	ng	100
80) Butylbenzylphthalate	20.551	149	1083395	56.68	ng	97
81) Benzo(a)anthracene	21.504	228	2396398	53.20	ng	99
82) 3,3'-Dichlorobenzidine	21.439	252	966906	57.80	ng	100
83) Chrysene	21.574	228	2250800	52.71	ng	100
84) Bis(2-ethylhexyl)phtha...	21.451	149	1585070	56.42	ng	100
85) Di-n-octyl phthalate	22.698	149	2614856	56.91	ng	100
87) Indeno(1,2,3-cd)pyrene	28.515	276	3262830	55.06	ng	99
88) Benzo(b)fluoranthene	23.763	252	2612438	56.25	ng	99
89) Benzo(k)fluoranthene	23.827	252	2552663	53.34	ng	99
90) Benzo(a)pyrene	24.645	252	2475976	55.51	ng	100
91) Dibenzo(a,h)anthracene	28.586	278	2679367	55.60	ng	99
92) Benzo(g,h,i)perylene	29.656	276	2625625	54.79	ng	99

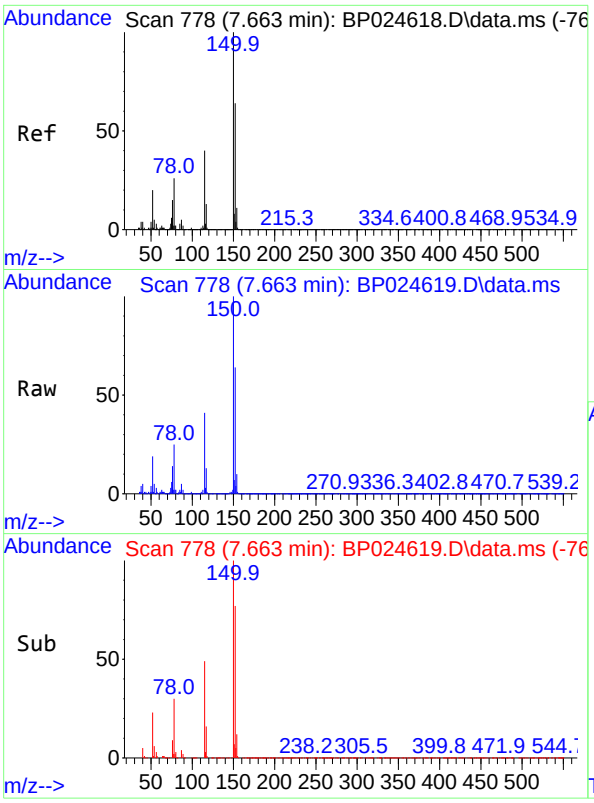
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024619.D
Acq On : 13 May 2025 14:05
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Quant Time: May 13 16:07:39 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration



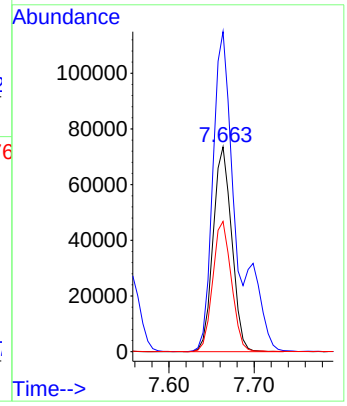


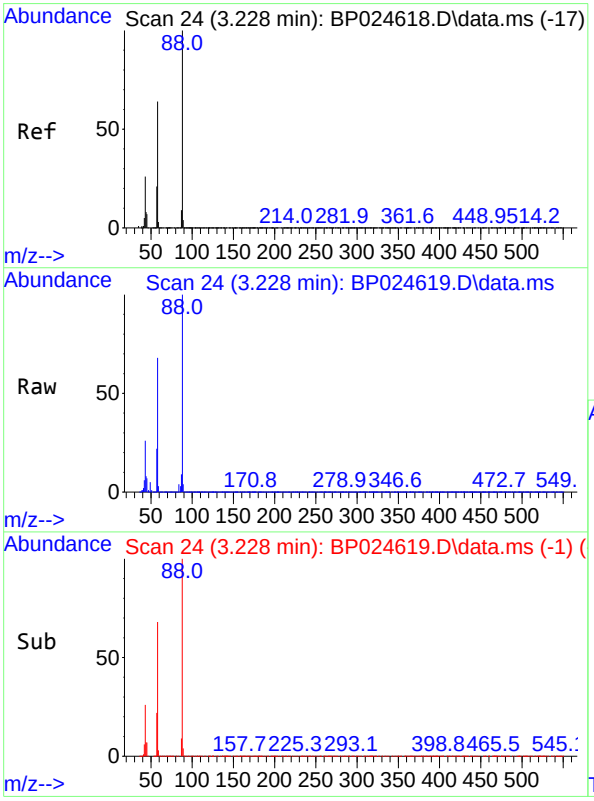
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.663 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 111395

Ion	Ratio	Lower	Upper
152	100		
150	156.2	125.9	188.9
115	63.6	50.1	75.1

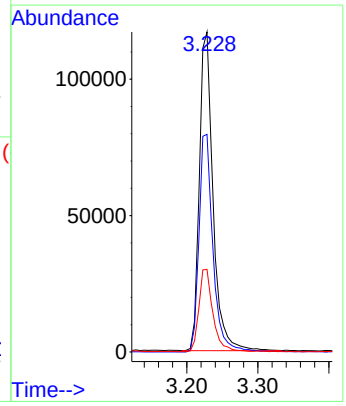


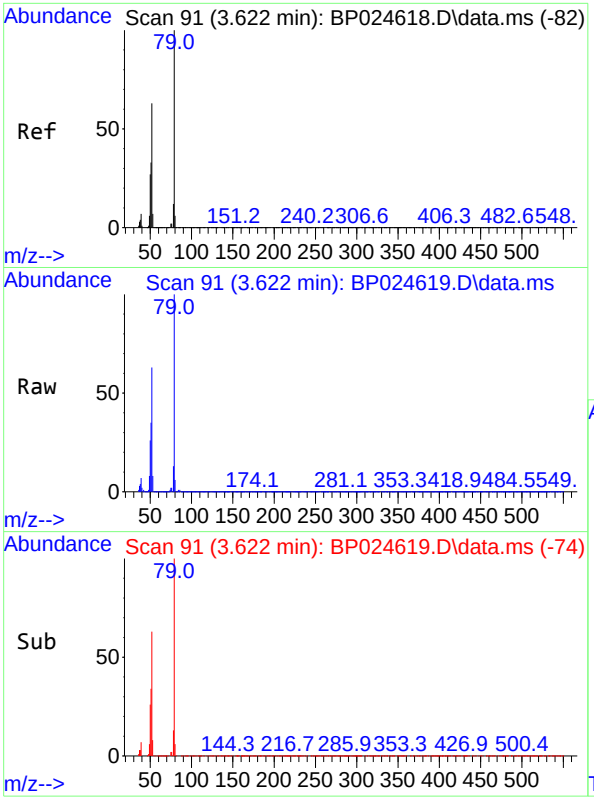


#2
1,4-Dioxane
Concen: 51.20 ng
RT: 3.228 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion: 88 Resp: 156571

Ion	Ratio	Lower	Upper
88	100		
58	70.0	54.0	81.0
43	26.5	21.4	32.0



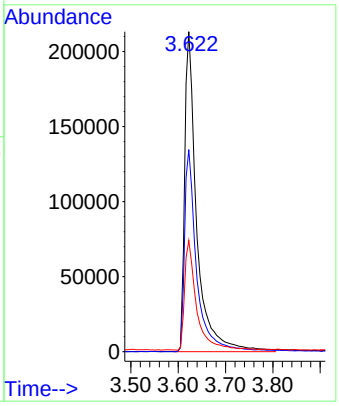


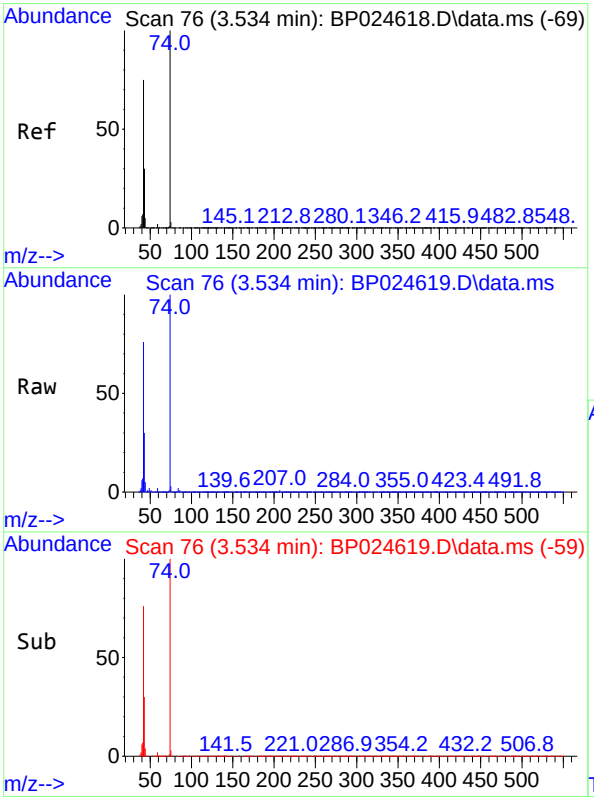
#3
Pyridine
Concen: 55.97 ng
RT: 3.622 min Scan# 91
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 379522

Ion	Ratio	Lower	Upper
79	100		
52	63.2	50.2	75.2
51	34.8	26.8	40.2

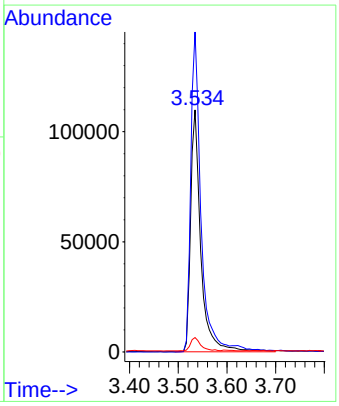


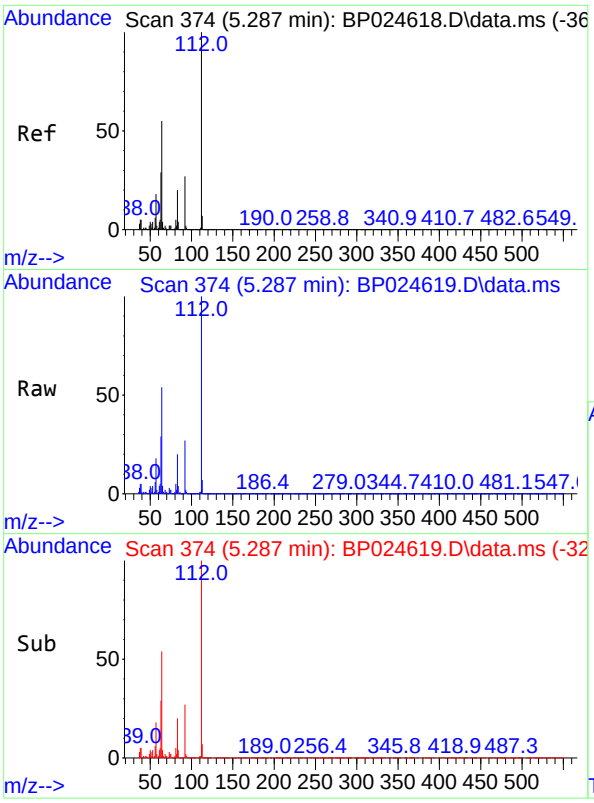


#4
n-Nitrosodimethylamine
Concen: 54.00 ng
RT: 3.534 min Scan# 76
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion: 42 Resp: 161654

Ion	Ratio	Lower	Upper
42	100		
74	132.2	106.2	159.2
44	6.0	5.4	8.2



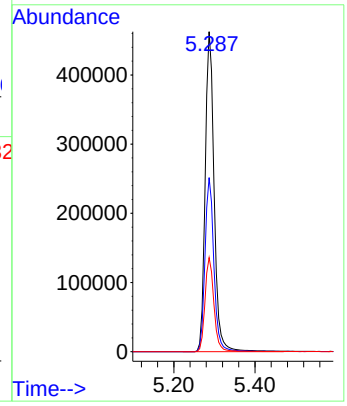


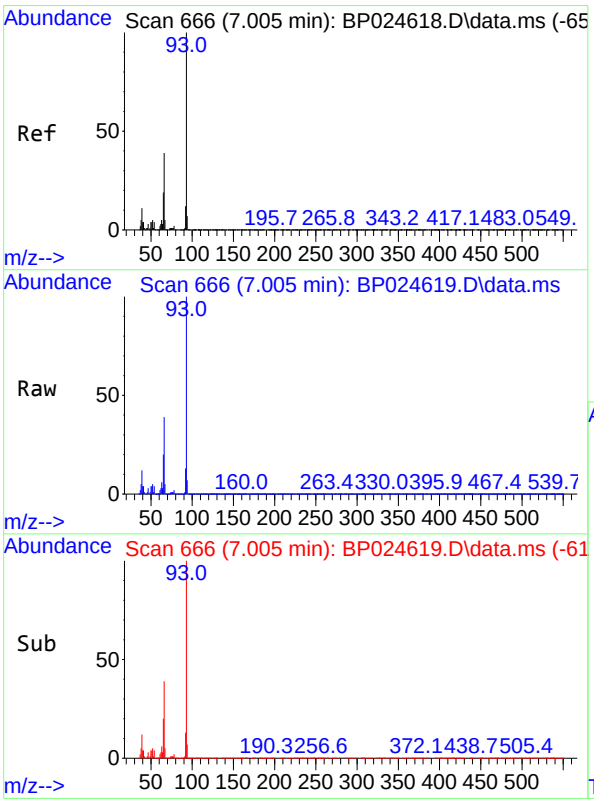
#5
2-Fluorophenol
Concen: 108.80 ng
RT: 5.287 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:112 Resp: 708626

Ion	Ratio	Lower	Upper
112	100		
64	54.4	44.1	66.1
63	29.4	23.5	35.3

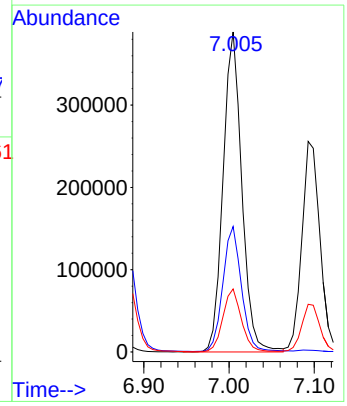


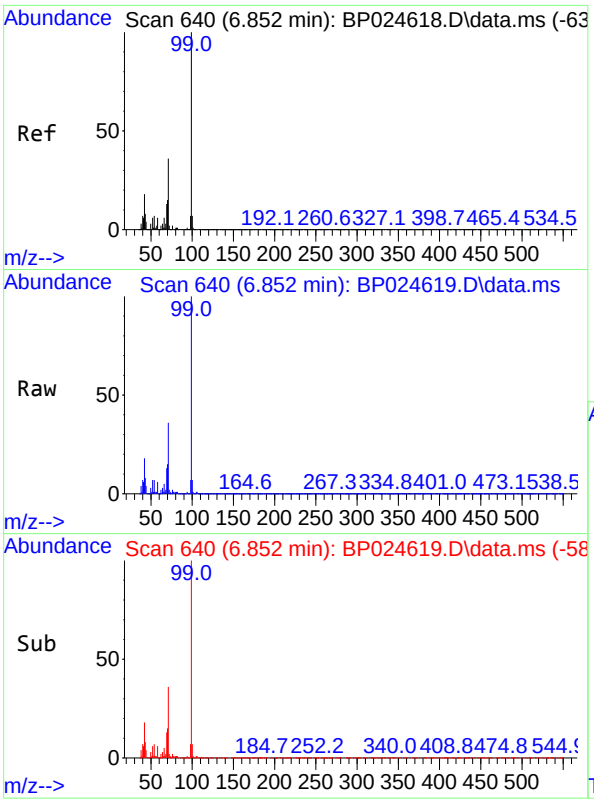


#6
Aniline
Concen: 55.27 ng
RT: 7.005 min Scan# 666
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion: 93 Resp: 593141

Ion	Ratio	Lower	Upper
93	100		
66	39.2	31.0	46.6
65	19.7	15.5	23.3



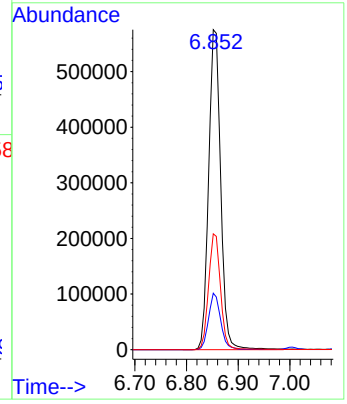


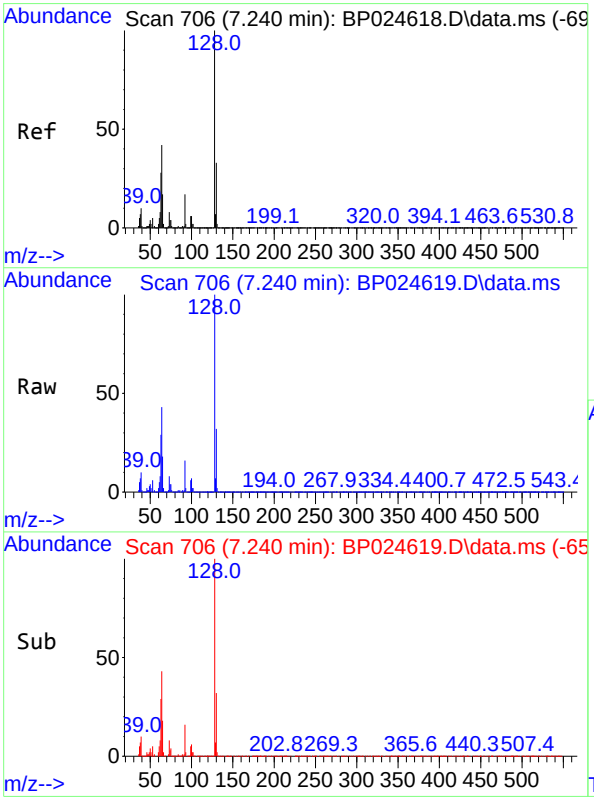
#7
Phenol-d6
Concen: 111.94 ng
RT: 6.852 min Scan# 64
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 99 Resp: 930484

Ion	Ratio	Lower	Upper
99	100		
42	17.7	14.4	21.6
71	36.2	29.2	43.8

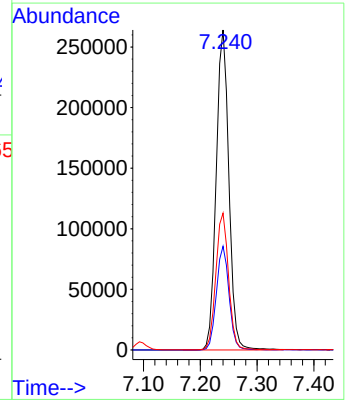


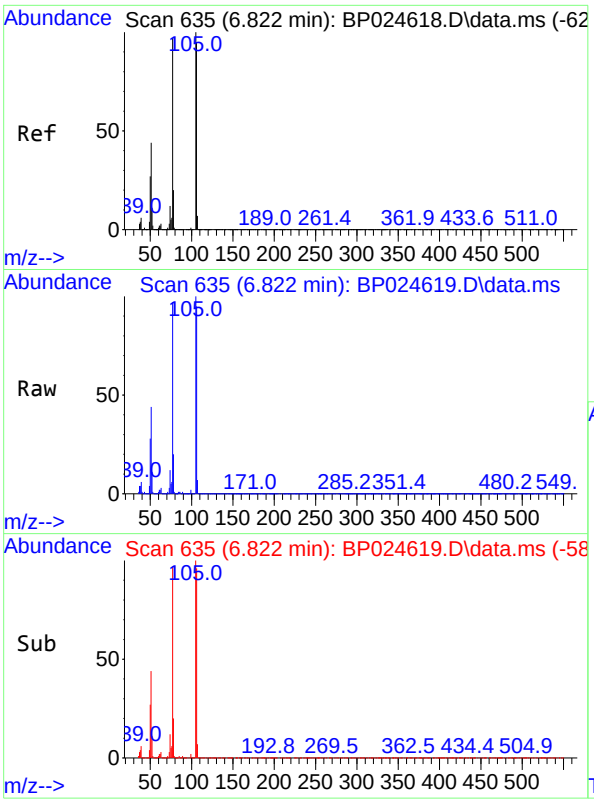


#8
2-Chlorophenol
Concen: 55.19 ng
RT: 7.240 min Scan# 706
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:128 Resp: 408016

Ion	Ratio	Lower	Upper
128	100		
130	32.4	13.0	53.0
64	42.8	22.3	62.3



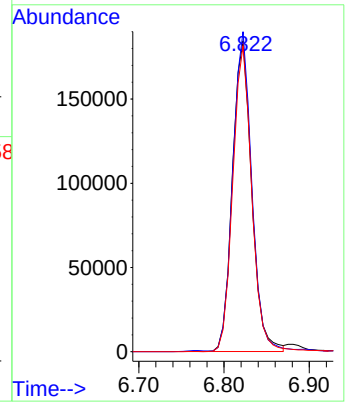


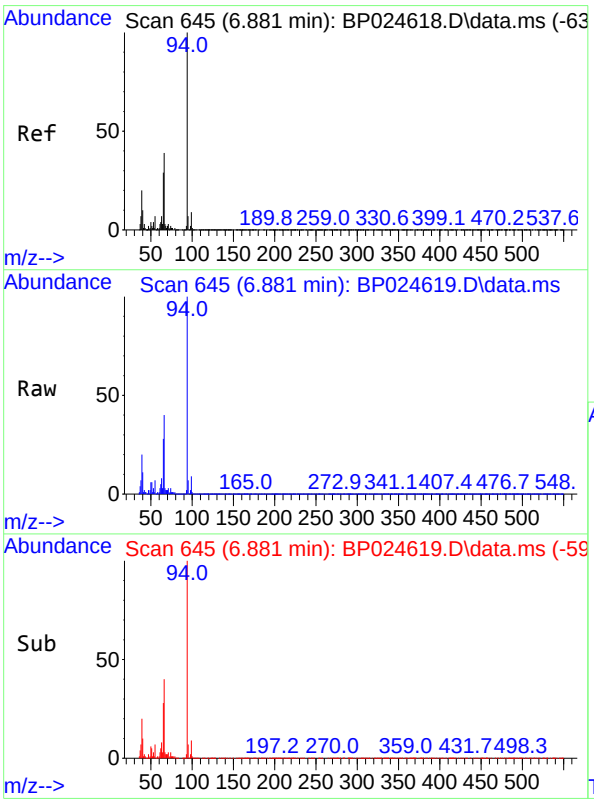
#9
Benzaldehyde
Concen: 54.06 ng
RT: 6.822 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 290405

Ion	Ratio	Lower	Upper
77	100		
105	103.0	83.3	123.3
106	98.4	78.0	118.0

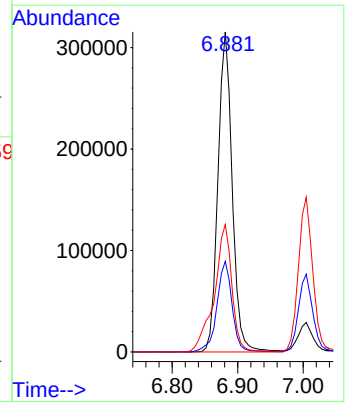


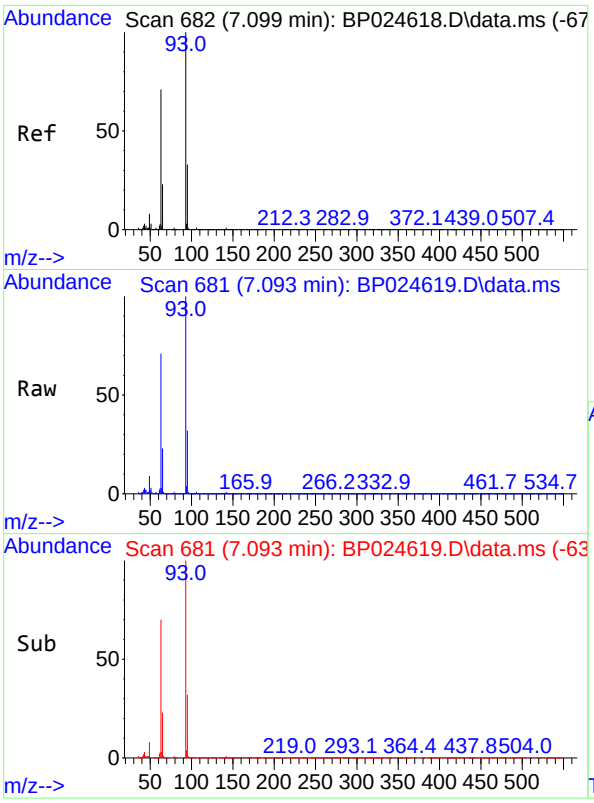


#10
Phenol
Concen: 55.41 ng
RT: 6.881 min Scan# 645
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion: 94 Resp: 475413

Ion	Ratio	Lower	Upper
94	100		
65	28.3	8.7	48.7
66	39.9	19.4	59.4



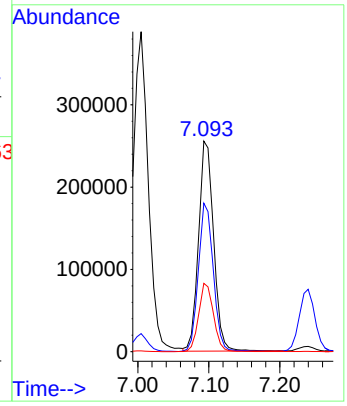


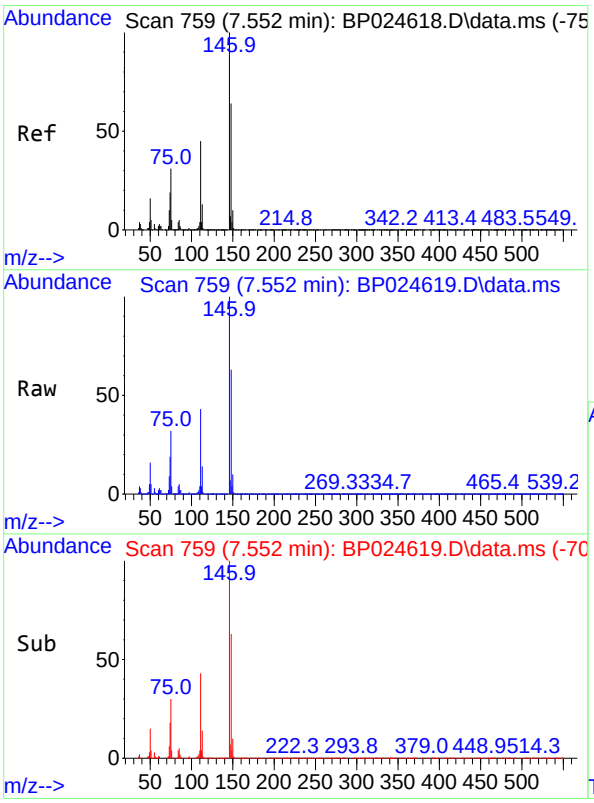
#11
bis(2-Chloroethyl)ether
Concen: 53.59 ng
RT: 7.093 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 377787

Ion	Ratio	Lower	Upper
93	100		
63	70.5	50.6	90.6
95	32.5	12.9	52.9

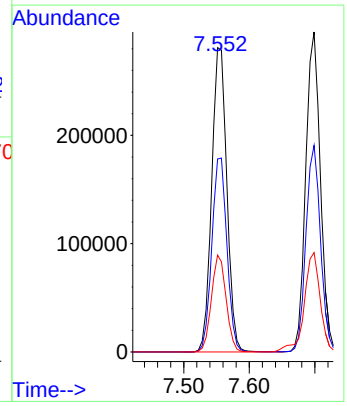


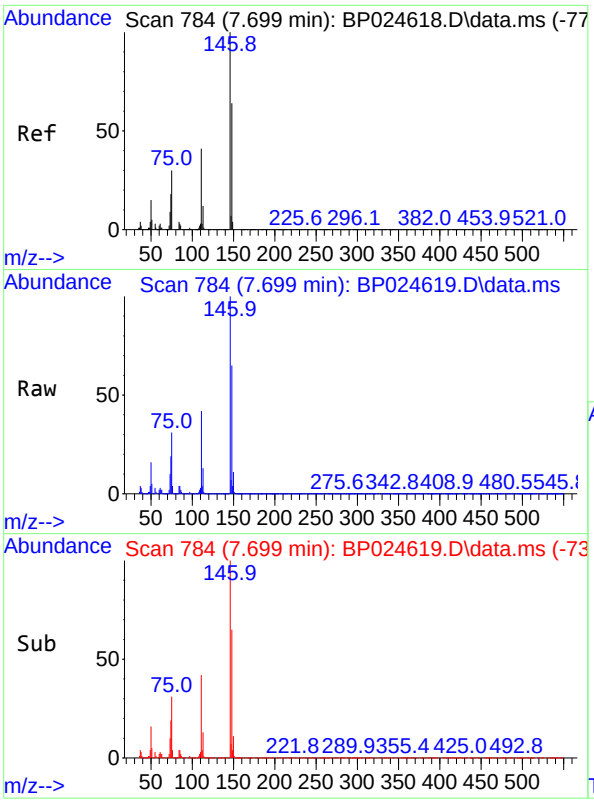


#12
1,3-Dichlorobenzene
Concen: 53.11 ng
RT: 7.552 min Scan# 759
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:146 Resp: 451750

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.4	77.2
75	31.9	25.2	37.8



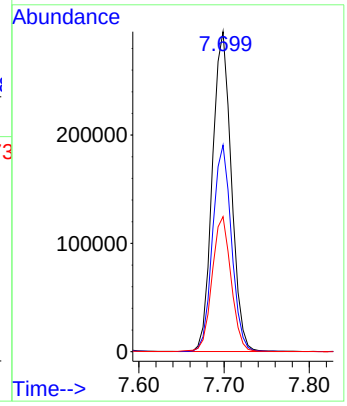


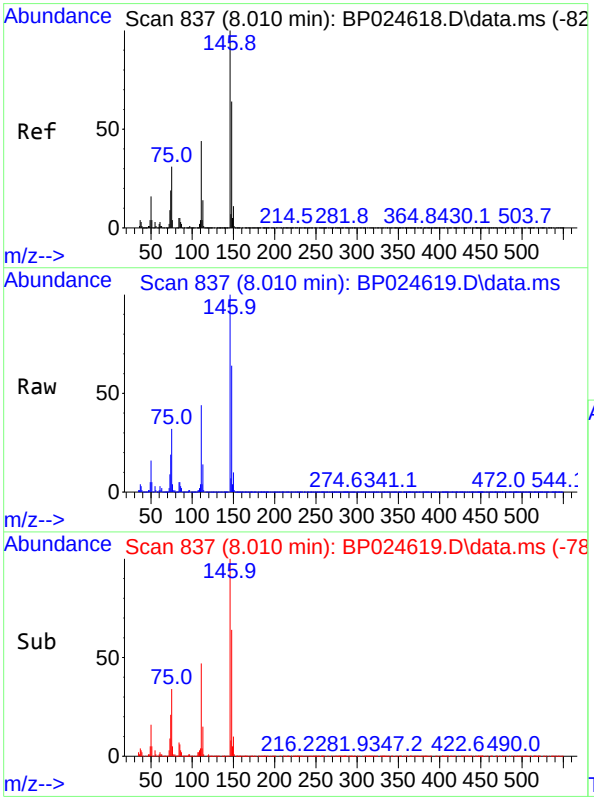
#13
1,4-Dichlorobenzene
Concen: 53.28 ng
RT: 7.699 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:146 Resp: 455796

Ion	Ratio	Lower	Upper
146	100		
148	64.5	51.0	76.6
111	42.2	33.0	49.6

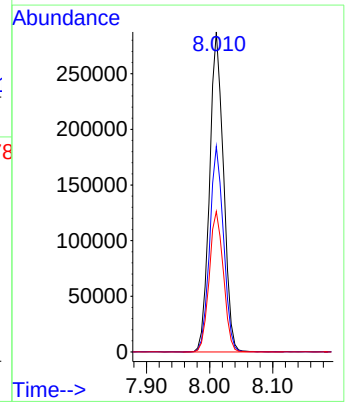


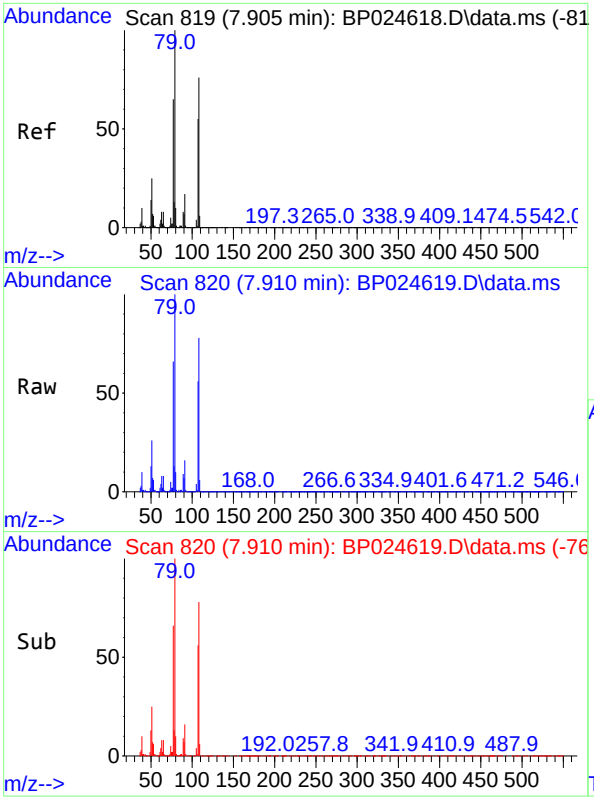


#14
1,2-Dichlorobenzene
Concen: 52.74 ng
RT: 8.010 min Scan# 837
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:146 Resp: 439707

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.4
111	43.9	35.2	52.8



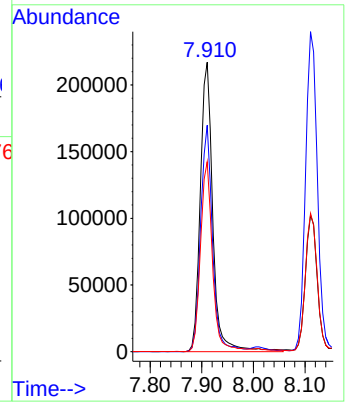


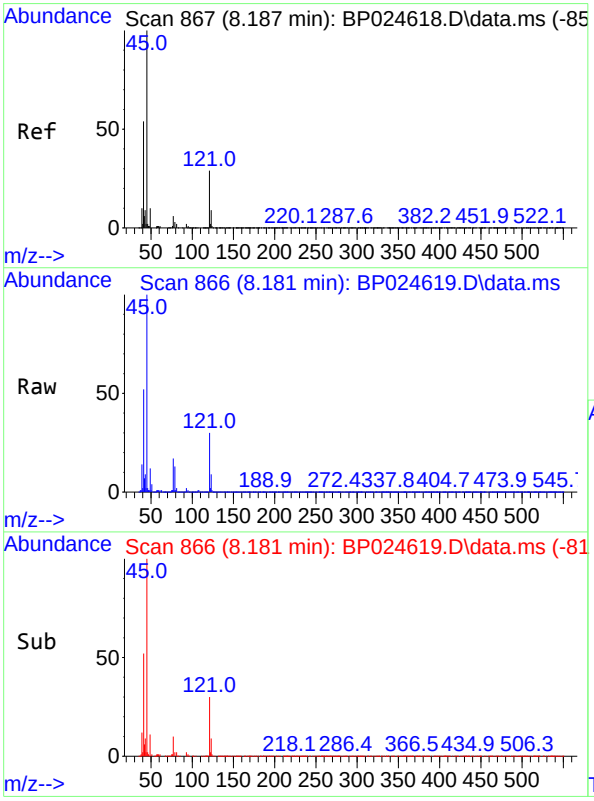
#15
Benzyl Alcohol
Concen: 57.58 ng
RT: 7.910 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 79 Resp: 363689

Ion	Ratio	Lower	Upper
79	100		
108	78.2	60.8	91.2
77	65.6	51.9	77.9

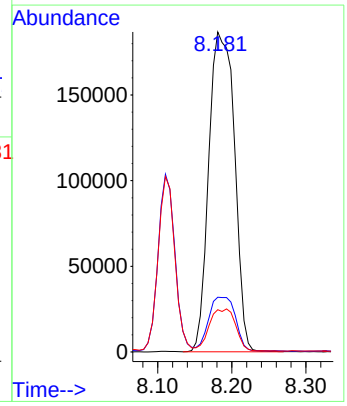


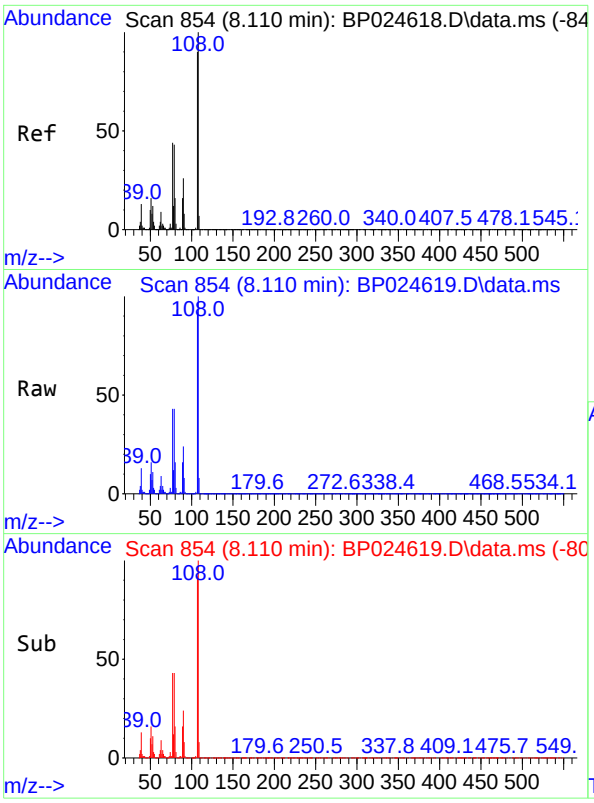


#16
2,2'-oxybis(1-Chloropropane)
Concen: 53.33 ng
RT: 8.181 min Scan# 866
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion: 45 Resp: 450215

Ion	Ratio	Lower	Upper
45	100		
77	17.1	0.0	37.7
79	13.2	0.0	34.0



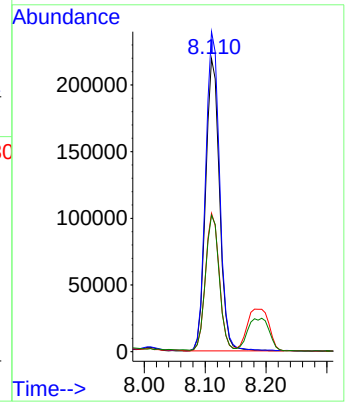


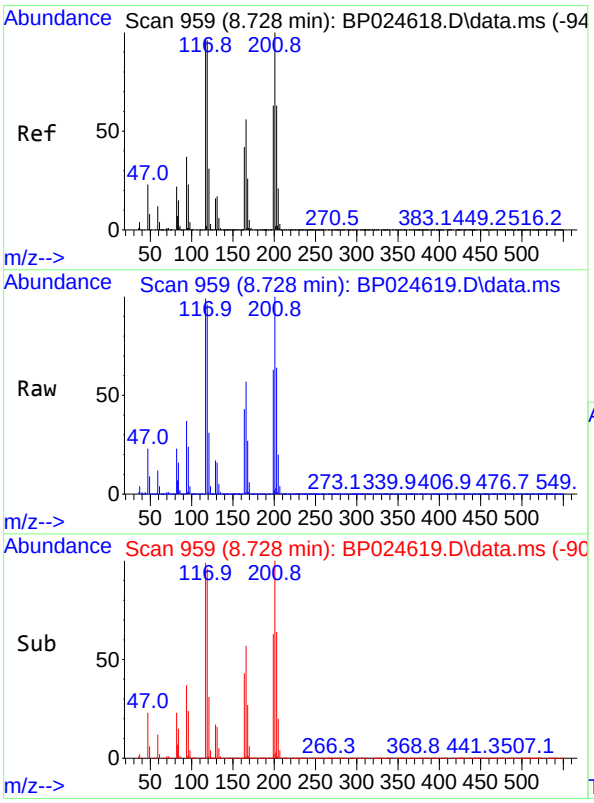
#17
2-Methylphenol
Concen: 56.40 ng
RT: 8.110 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:107 Resp: 347065

Ion	Ratio	Lower	Upper
107	100		
108	109.2	88.9	133.3
77	47.2	39.0	58.6
79	46.6	38.4	57.6

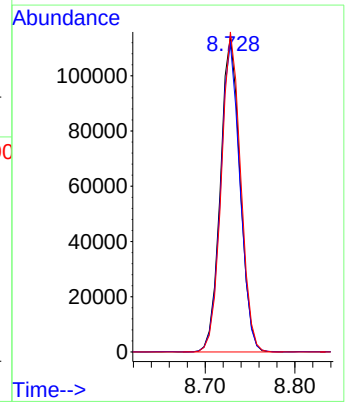


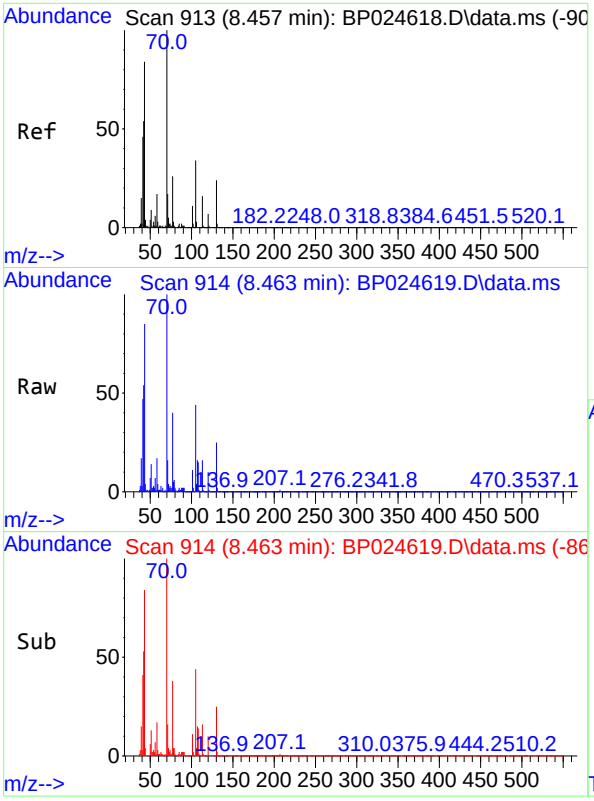


#18
Hexachloroethane
Concen: 52.95 ng
RT: 8.728 min Scan# 959
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:117 Resp: 173580

Ion	Ratio	Lower	Upper
117	100		
119	97.5	79.4	119.0
201	101.3	82.7	124.1



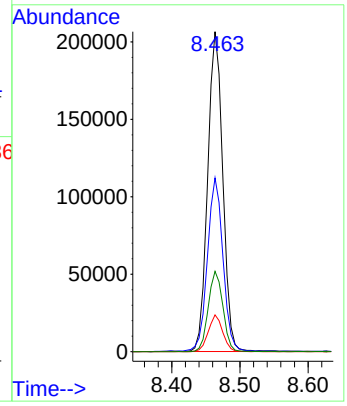


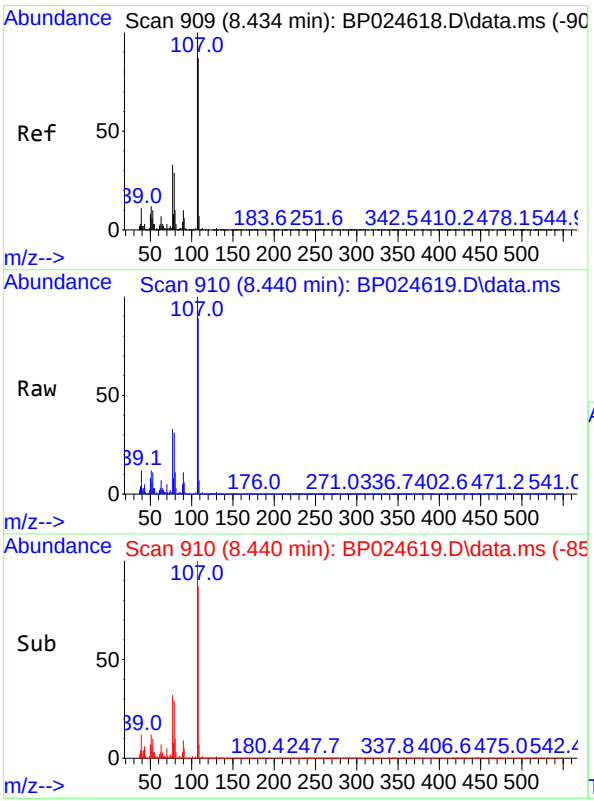
#19
n-Nitroso-di-n-propylamine
Concen: 55.32 ng
RT: 8.463 min Scan# 91
Delta R.T. 0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 70 Resp: 318058

Ion	Ratio	Lower	Upper
70	100		
42	54.3	43.0	64.6
101	11.5	8.7	13.1
130	25.1	19.4	29.0

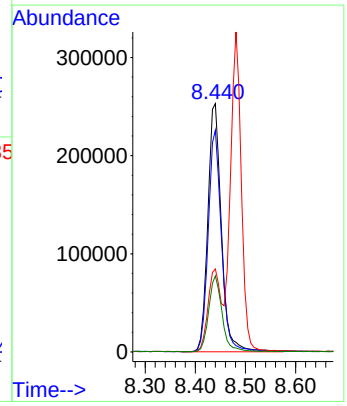


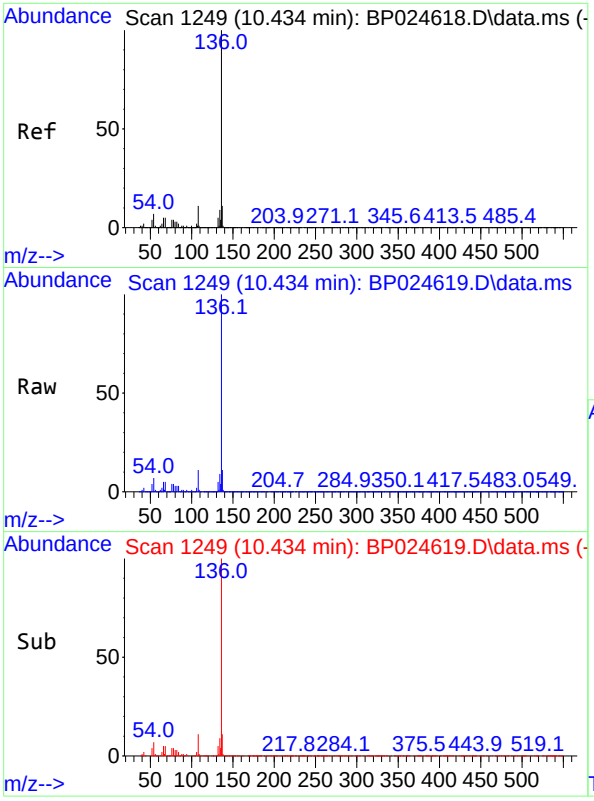


#20
3+4-Methylphenols
Concen: 56.64 ng
RT: 8.440 min Scan# 910
Delta R.T. 0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:107 Resp: 474048

Ion	Ratio	Lower	Upper
107	100		
108	89.3	66.7	106.7
77	33.4	13.1	53.1
79	30.7	8.9	48.9



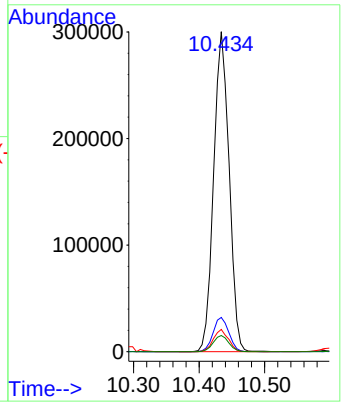


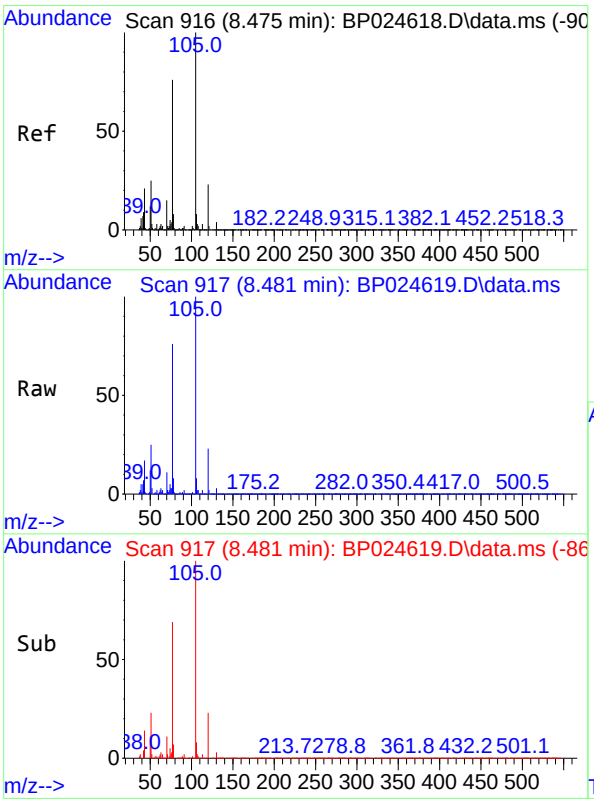
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:136 Resp: 489806

Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	7.0	5.5	8.3
68	5.0	4.2	6.2

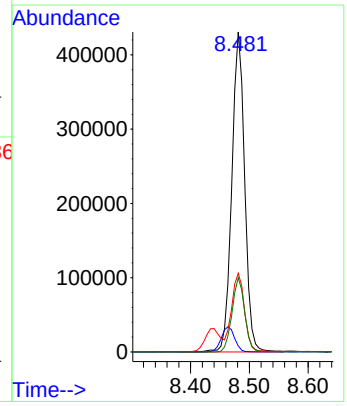


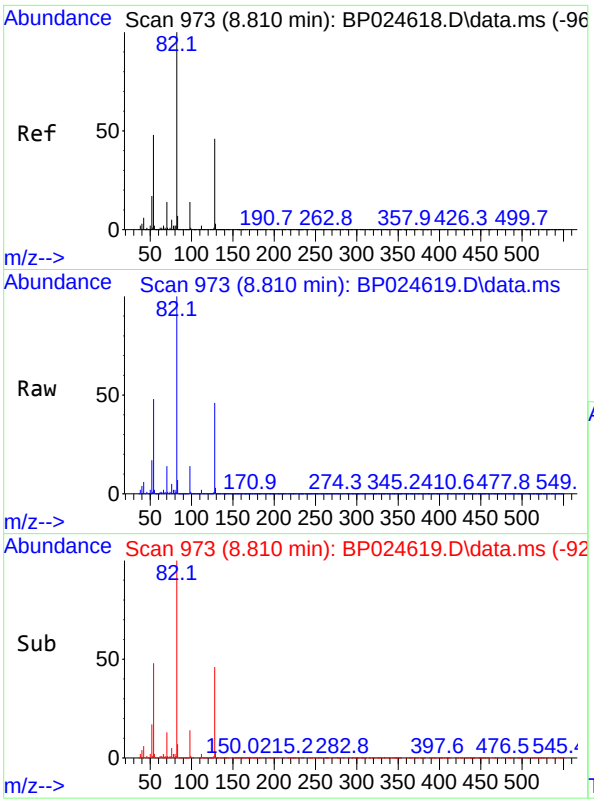


#22
Acetophenone
Concen: 53.44 ng
RT: 8.481 min Scan# 917
Delta R.T. 0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:105 Resp: 653878

Ion	Ratio	Lower	Upper
105	100		
71	1.9	2.0	3.0#
51	24.6	20.4	30.6
120	23.2	18.1	27.1



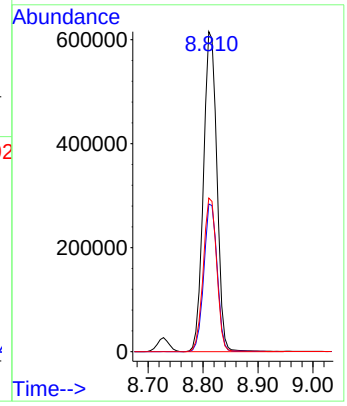


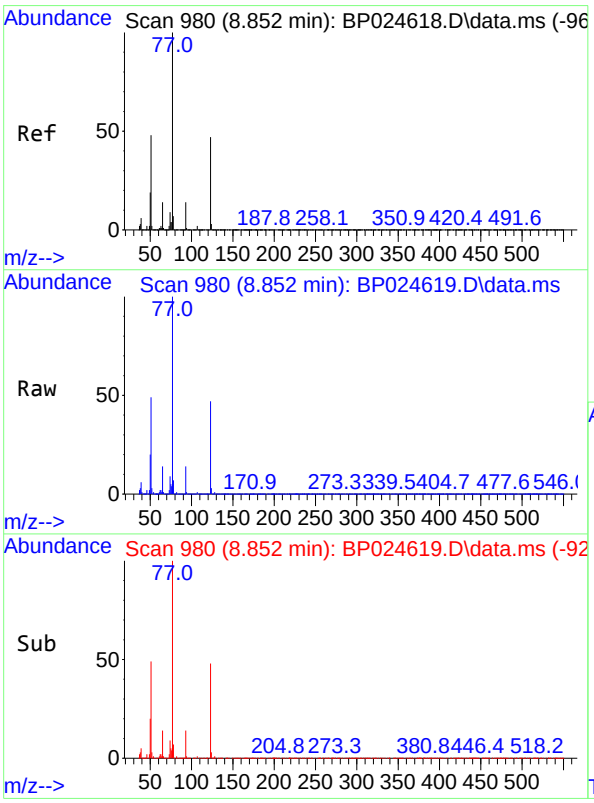
#23
Nitrobenzene-d5
Concen: 108.26 ng
RT: 8.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 1049445

Ion	Ratio	Lower	Upper
82	100		
128	46.1	37.0	55.4
54	48.0	38.7	58.1

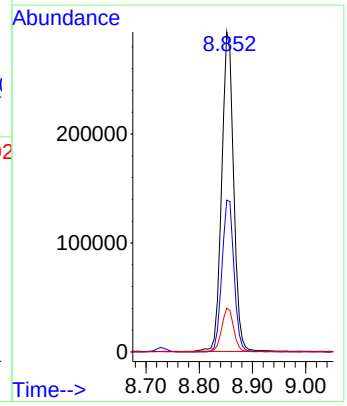


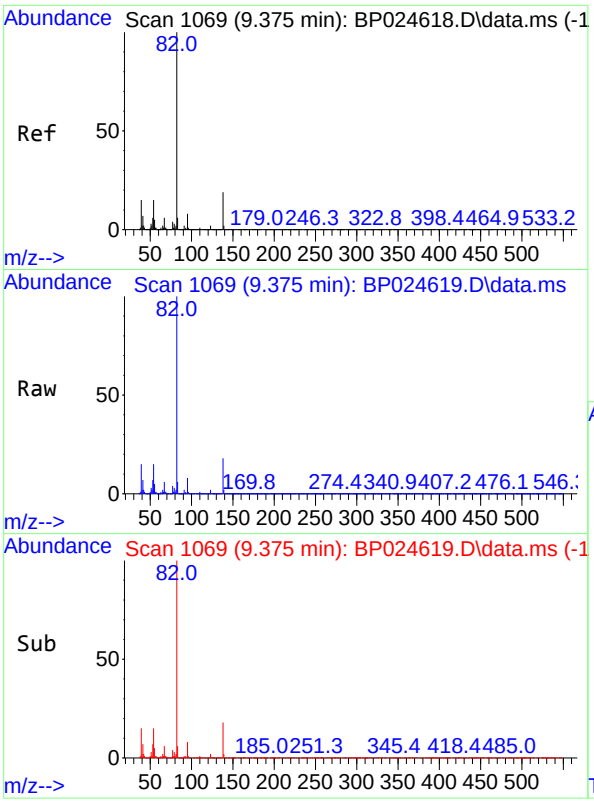


#24
Nitrobenzene
Concen: 53.56 ng
RT: 8.852 min Scan# 980
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion: 77 Resp: 456929

Ion	Ratio	Lower	Upper
77	100		
123	47.4	37.4	56.0
65	13.7	11.3	16.9



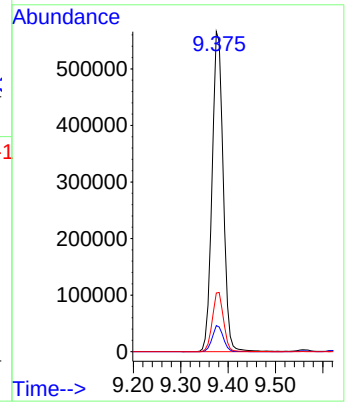


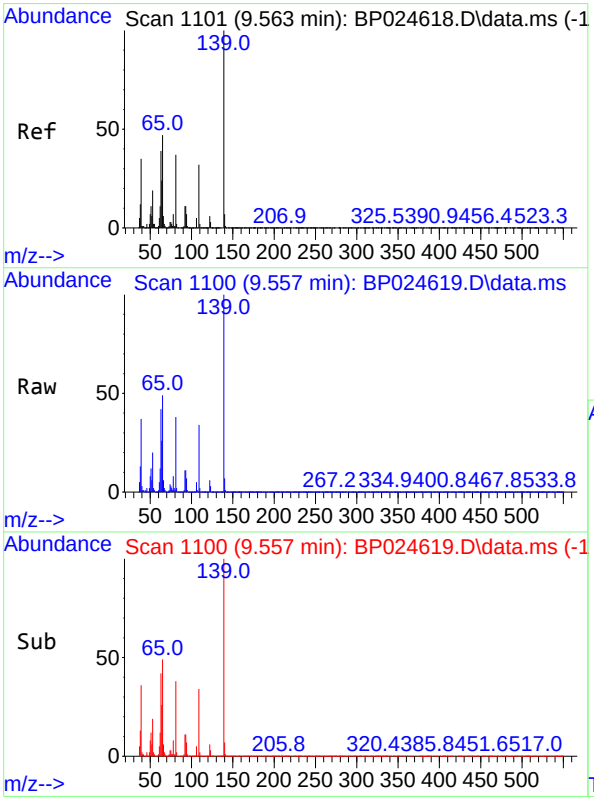
#25
Isophorone
Concen: 54.82 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 82 Resp: 921892

Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.3	9.5
138	18.3	15.3	22.9

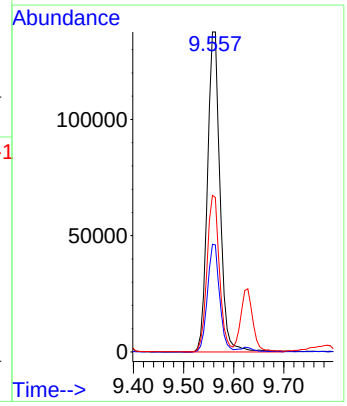


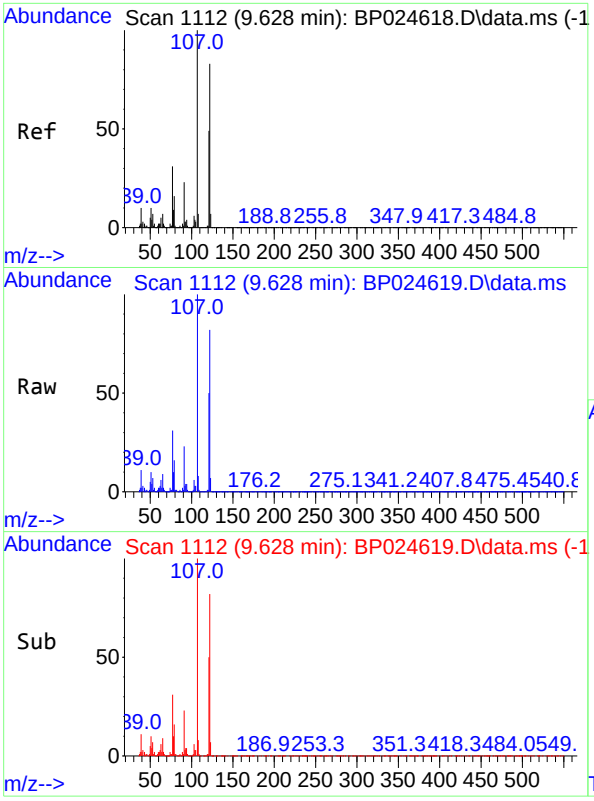


#26
2-Nitrophenol
Concen: 57.38 ng
RT: 9.557 min Scan# 1100
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:139 Resp: 239844

Ion	Ratio	Lower	Upper
139	100		
109	33.6	25.9	38.9
65	49.0	37.9	56.9



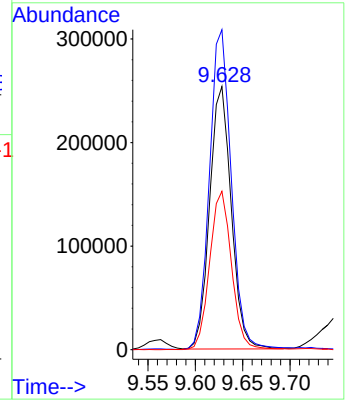


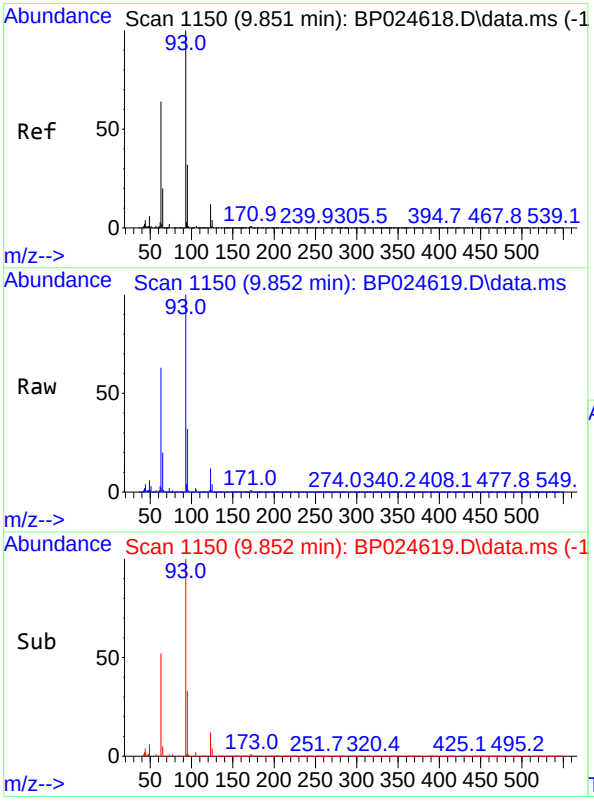
#27
2,4-Dimethylphenol
Concen: 54.62 ng
RT: 9.628 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:122 Resp: 402585

Ion	Ratio	Lower	Upper
122	100		
107	121.6	96.2	144.2
121	60.2	47.6	71.4

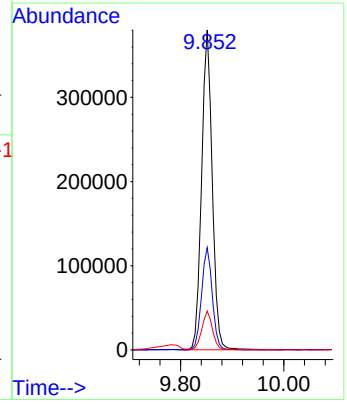


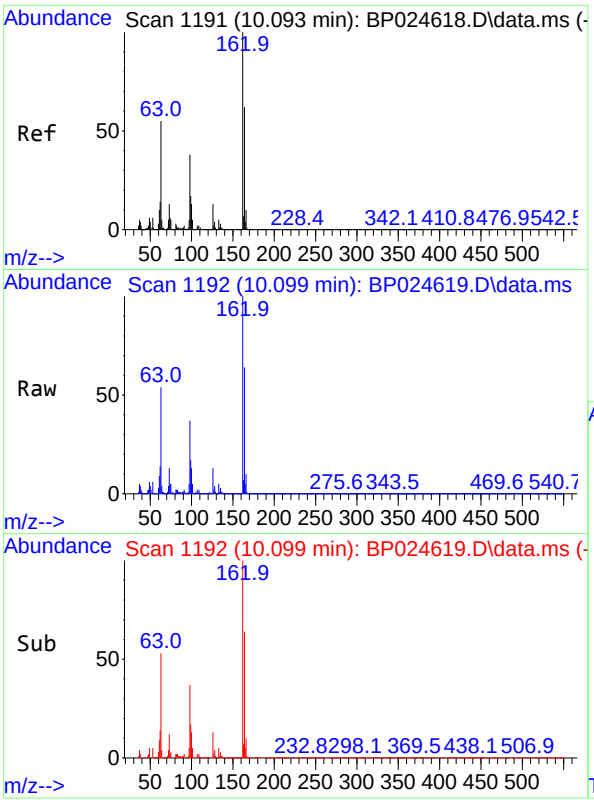


#28
bis(2-Chloroethoxy)methane
Concen: 54.01 ng
RT: 9.852 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion: 93 Resp: 542581

Ion	Ratio	Lower	Upper
93	100		
95	31.9	25.5	38.3
123	12.2	9.7	14.5



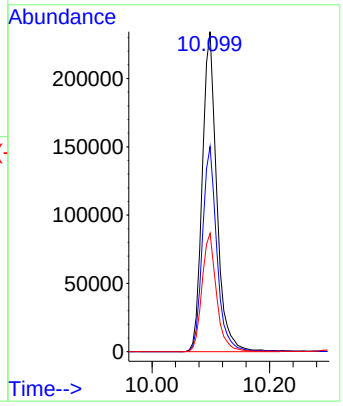


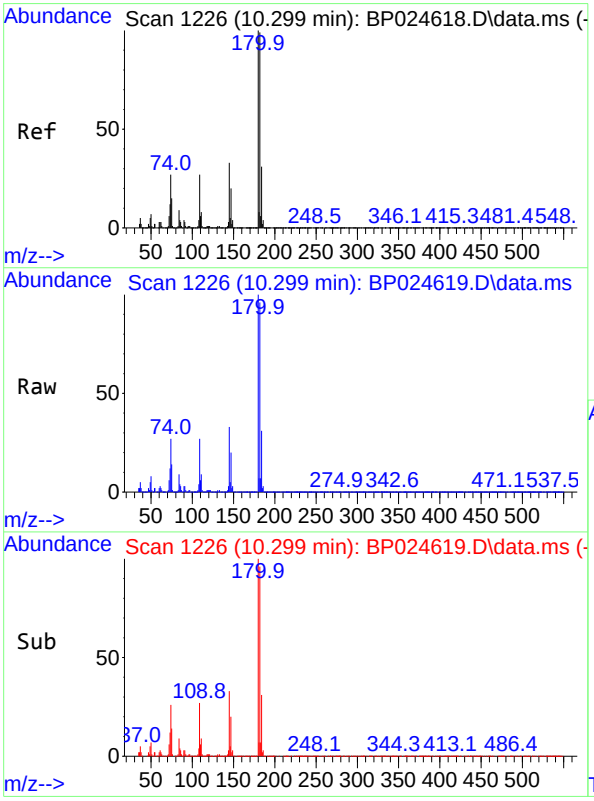
#29
2,4-Dichlorophenol
Concen: 56.14 ng
RT: 10.099 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 400983

Ion	Ratio	Lower	Upper
162	100		
164	64.1	42.3	82.3
98	37.0	18.4	58.4

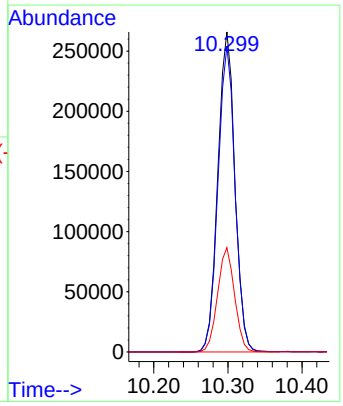


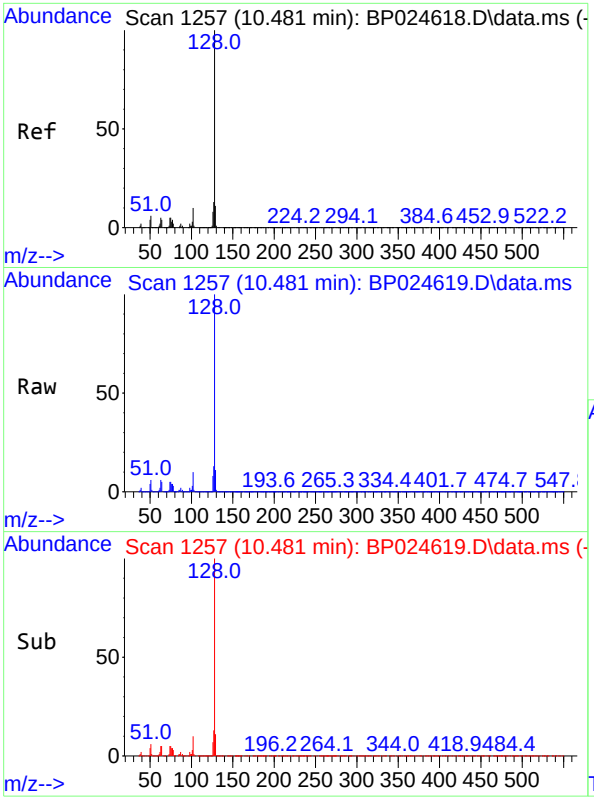


#30
1,2,4-Trichlorobenzene
Concen: 52.75 ng
RT: 10.299 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:180 Resp: 424561

Ion	Ratio	Lower	Upper
180	100		
182	95.5	79.0	118.4
145	32.6	26.6	39.8



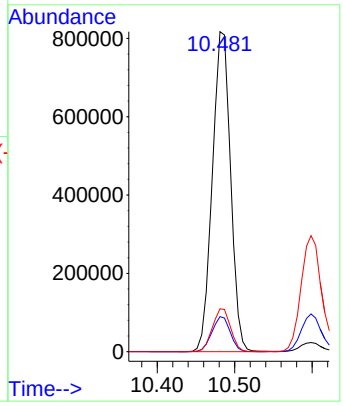


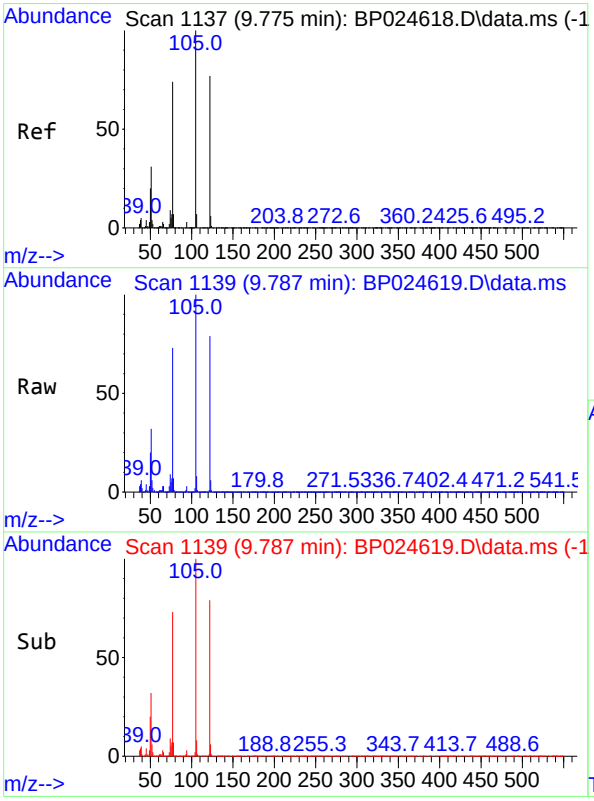
#31
Naphthalene
Concen: 52.65 ng
RT: 10.481 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:128 Resp: 1336265

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.4	10.7	16.1

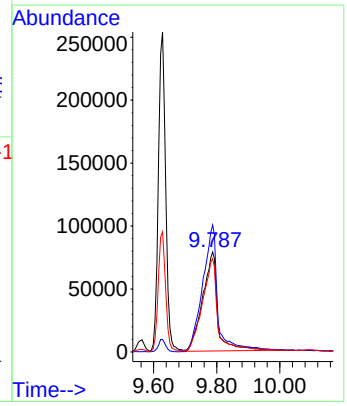


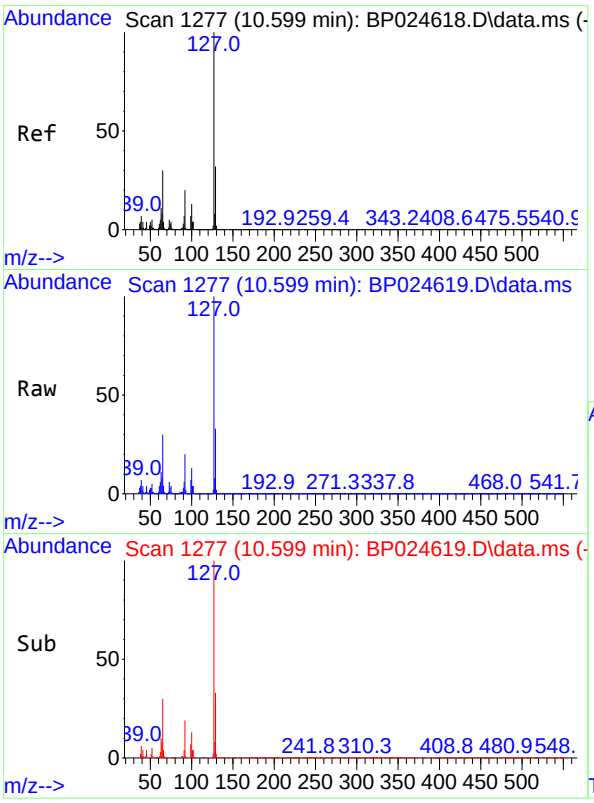


#32
Benzoic acid
Concen: 50.71 ng
RT: 9.787 min Scan# 1139
Delta R.T. 0.012 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:122 Resp: 263657

Ion	Ratio	Lower	Upper
122	100		
105	127.2	106.9	146.9
77	93.3	75.1	115.1



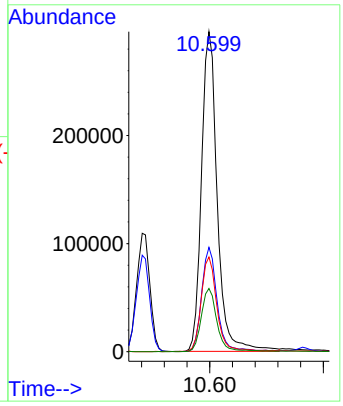


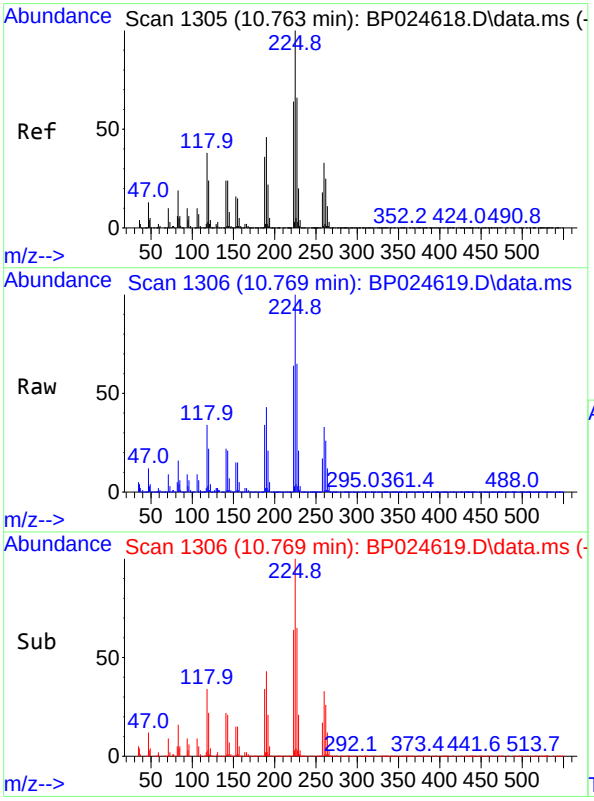
#33
4-Chloroaniline
Concen: 55.63 ng
RT: 10.599 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 569812

Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.8	38.6
65	29.6	23.9	35.9
92	19.7	16.1	24.1

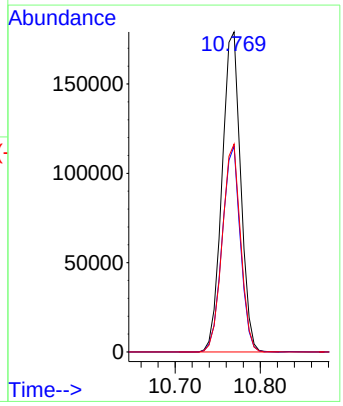


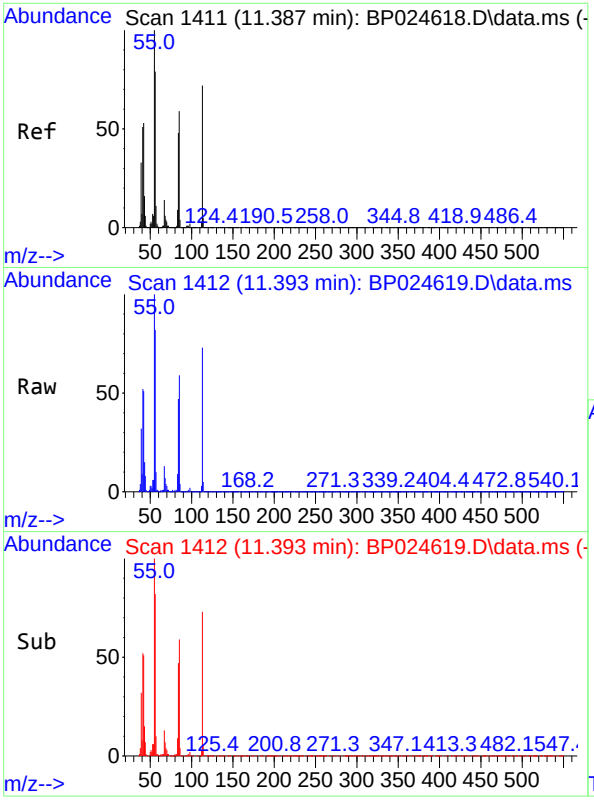


#34
Hexachlorobutadiene
Concen: 52.09 ng
RT: 10.769 min Scan# 1306
Delta R.T. 0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:225 Resp: 271578

Ion	Ratio	Lower	Upper
225	100		
223	64.4	51.0	76.6
227	64.9	53.1	79.7



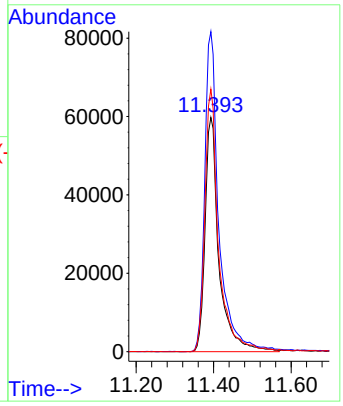


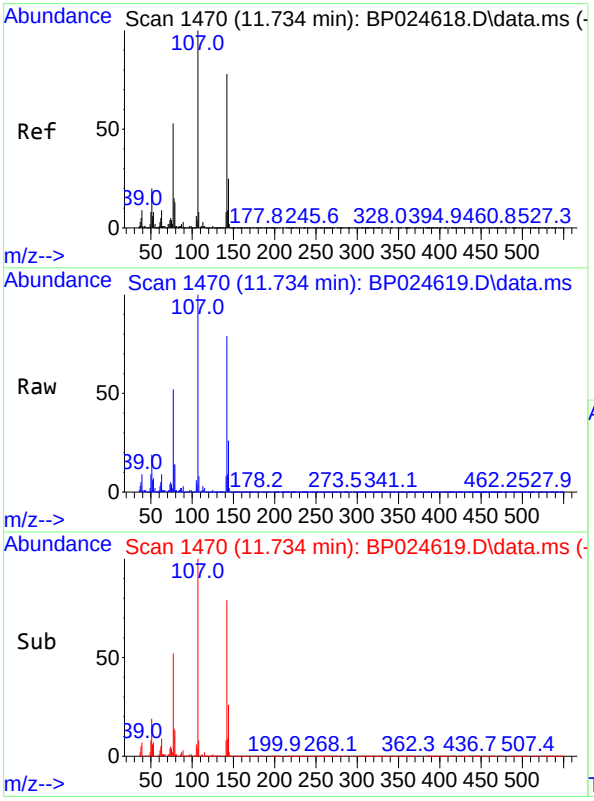
#35
Caprolactam
Concen: 57.53 ng
RT: 11.393 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:113 Resp: 148586

Ion	Ratio	Lower	Upper
113	100		
55	136.6	119.0	159.0
56	112.0	90.3	130.3

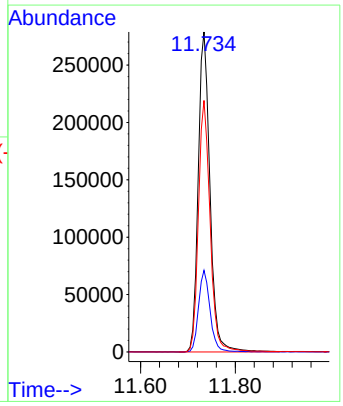


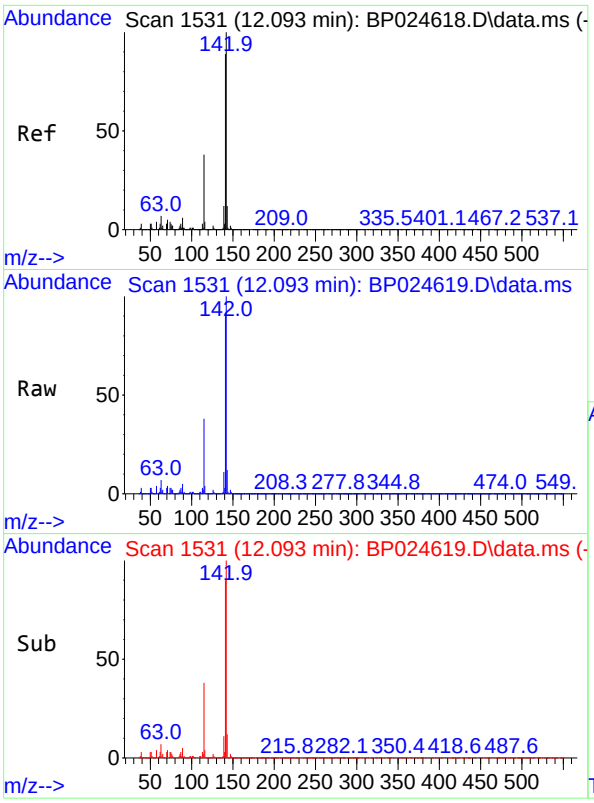


#36
4-Chloro-3-methylphenol
Concen: 54.97 ng
RT: 11.734 min Scan# 1470
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:107 Resp: 478787

Ion	Ratio	Lower	Upper
107	100		
144	25.5	20.1	30.1
142	78.6	62.1	93.1



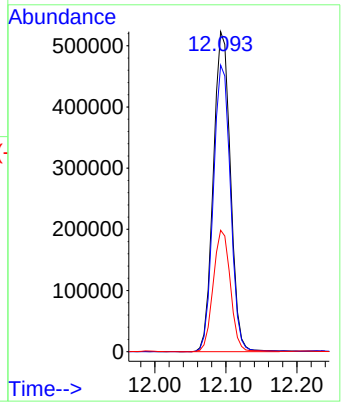


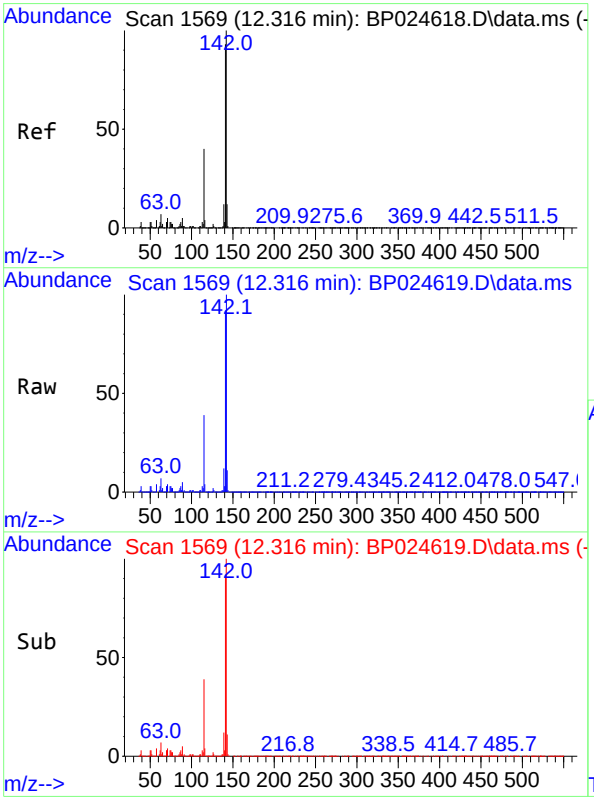
#37
2-Methylnaphthalene
Concen: 53.13 ng
RT: 12.093 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:142 Resp: 873274

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.2	106.8
115	37.9	30.6	46.0

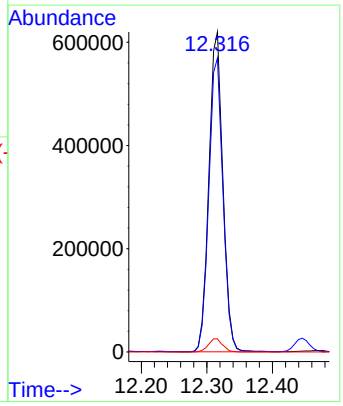


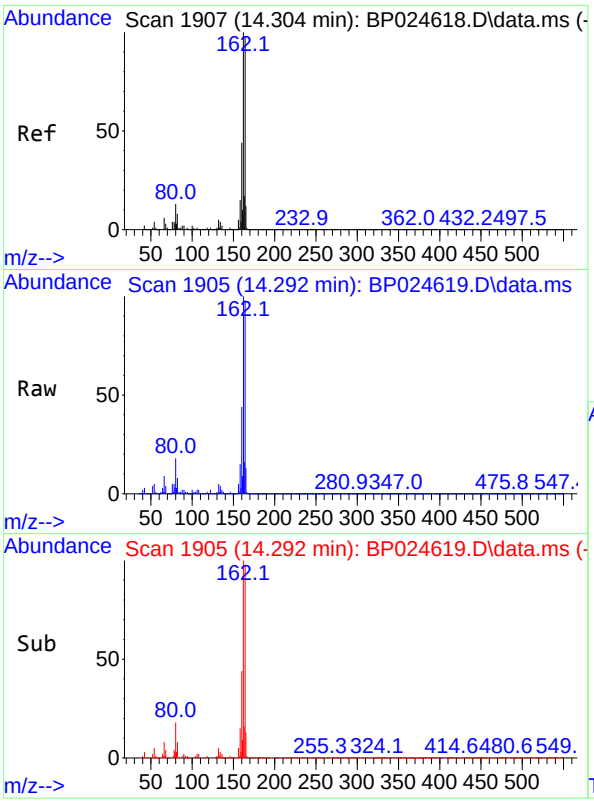


#38
1-Methylnaphthalene
Concen: 52.31 ng
RT: 12.316 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:142 Resp: 919827

Ion	Ratio	Lower	Upper
142	100		
141	91.9	74.7	112.1
116	4.1	3.4	5.2



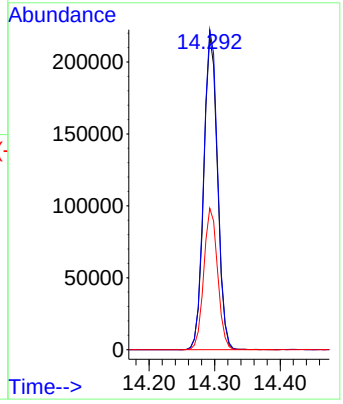


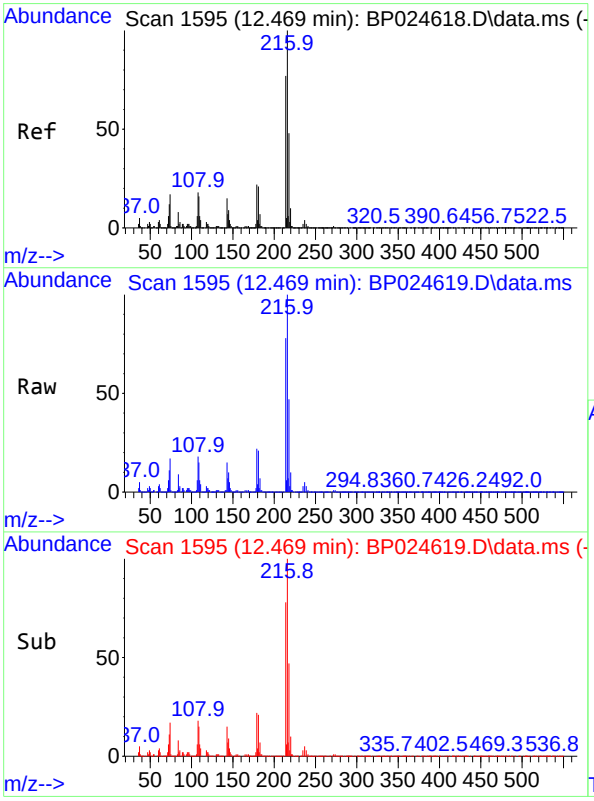
#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.292 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:164 Resp: 318760

Ion	Ratio	Lower	Upper
164	100		
162	101.9	81.8	122.6
160	45.1	36.3	54.5

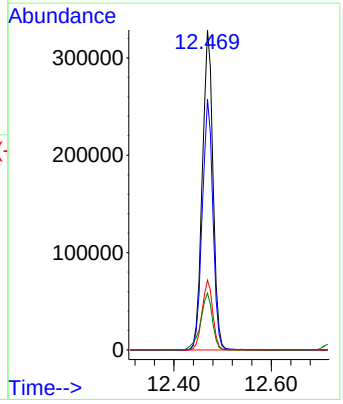


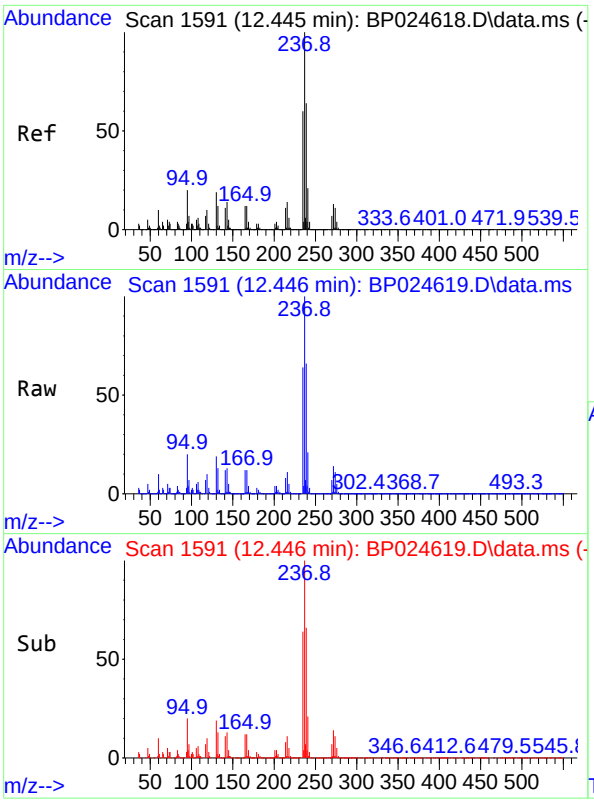


#40
1,2,4,5-Tetrachlorobenzene
Concen: 53.78 ng
RT: 12.469 min Scan# 1595
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:216 Resp: 497848

Ion	Ratio	Lower	Upper
216	100		
214	78.0	62.3	93.5
179	21.9	17.7	26.5
108	19.7	16.0	24.0



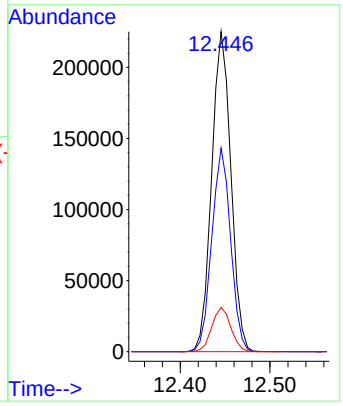


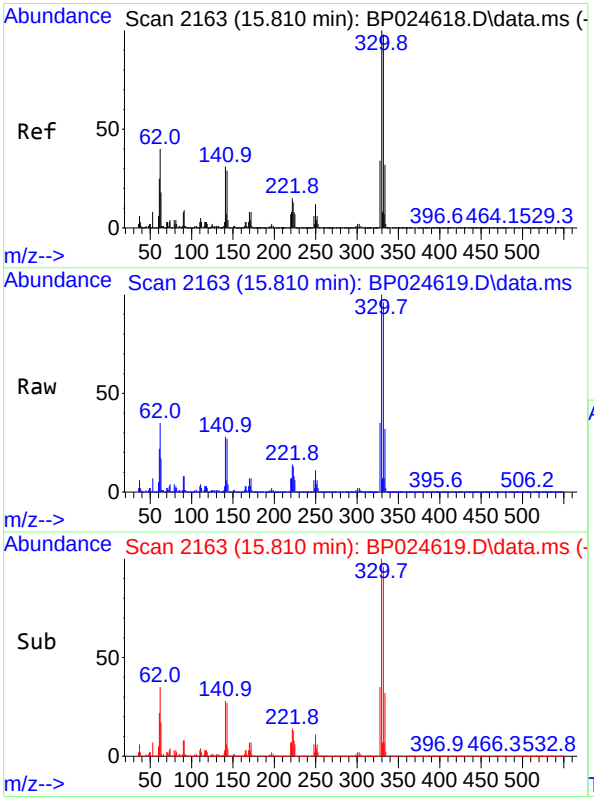
#41
Hexachlorocyclopentadiene
Concen: 59.64 ng
RT: 12.446 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:237 Resp: 334752

Ion	Ratio	Lower	Upper
237	100		
235	63.6	39.9	79.9
272	13.8	0.0	33.2

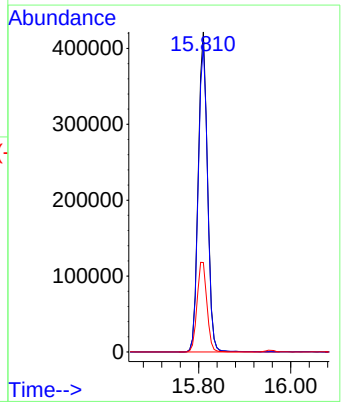


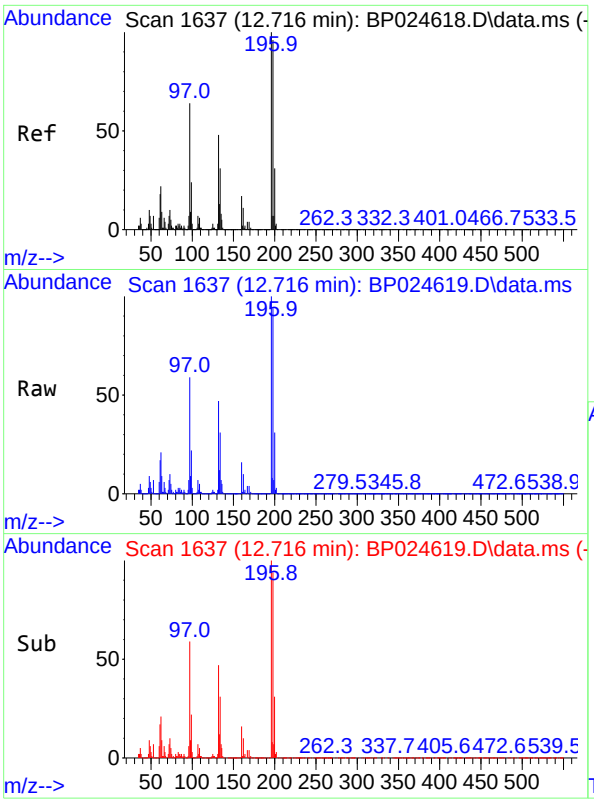


#42
2,4,6-Tribromophenol
Concen: 108.72 ng
RT: 15.810 min Scan# 2163
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:330 Resp: 587523

Ion	Ratio	Lower	Upper
330	100		
332	96.9	78.2	117.4
141	29.7	24.3	36.5



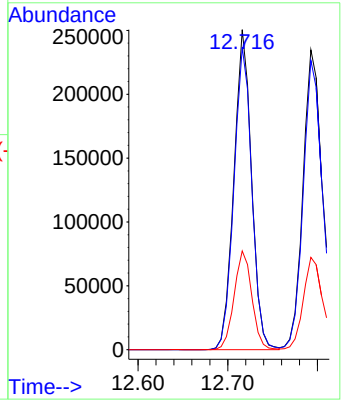


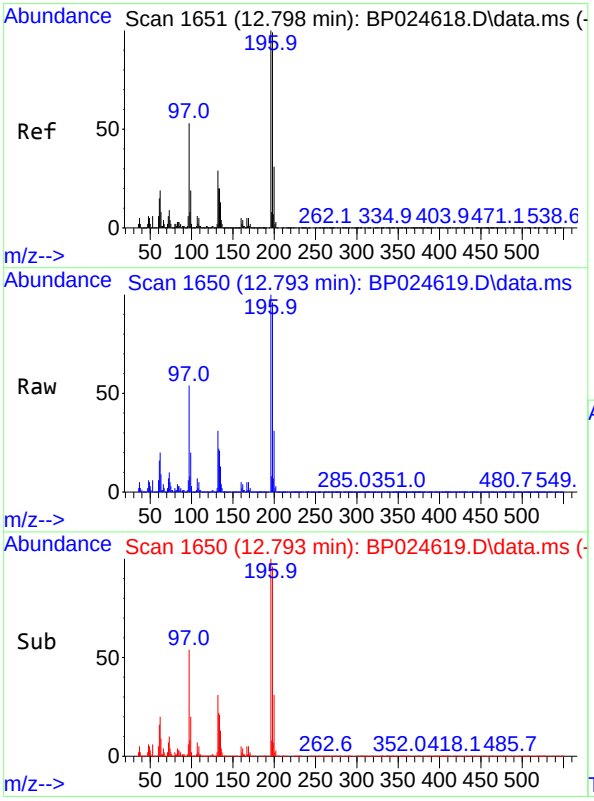
#43
2,4,6-Trichlorophenol
Concen: 56.89 ng
RT: 12.716 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:196 Resp: 341059

Ion	Ratio	Lower	Upper
196	100		
198	94.5	76.9	115.3
200	30.9	25.2	37.8

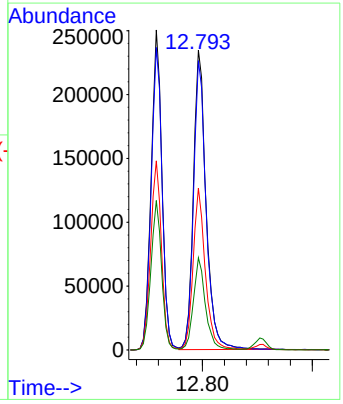


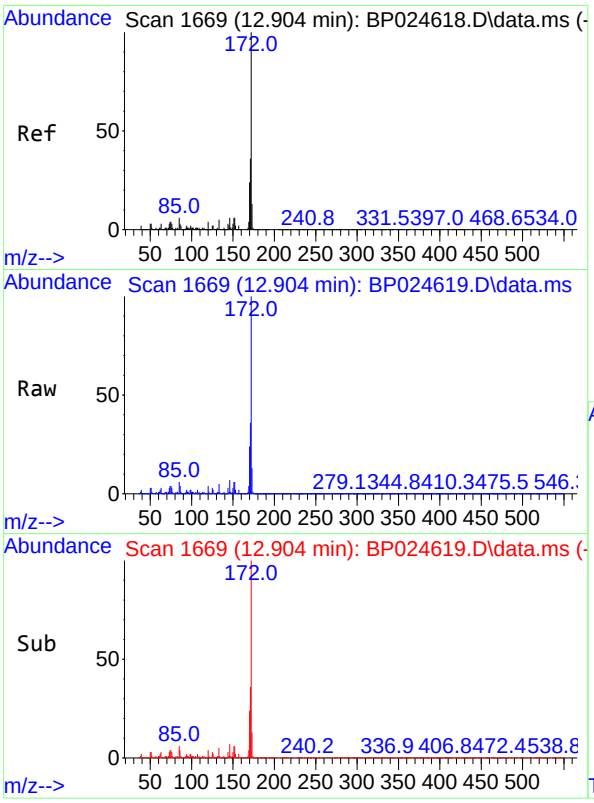


#44
2,4,5-Trichlorophenol
Concen: 56.24 ng
RT: 12.793 min Scan# 1650
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:196 Resp: 375330

Ion	Ratio	Lower	Upper
196	100		
198	96.5	79.2	118.8
97	54.0	42.3	63.5
132	30.8	23.3	34.9



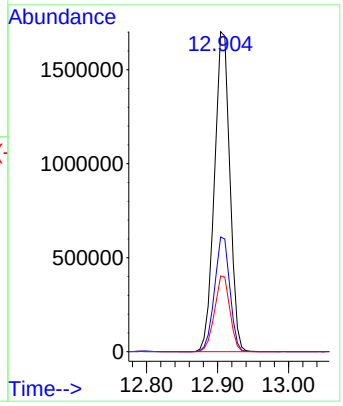


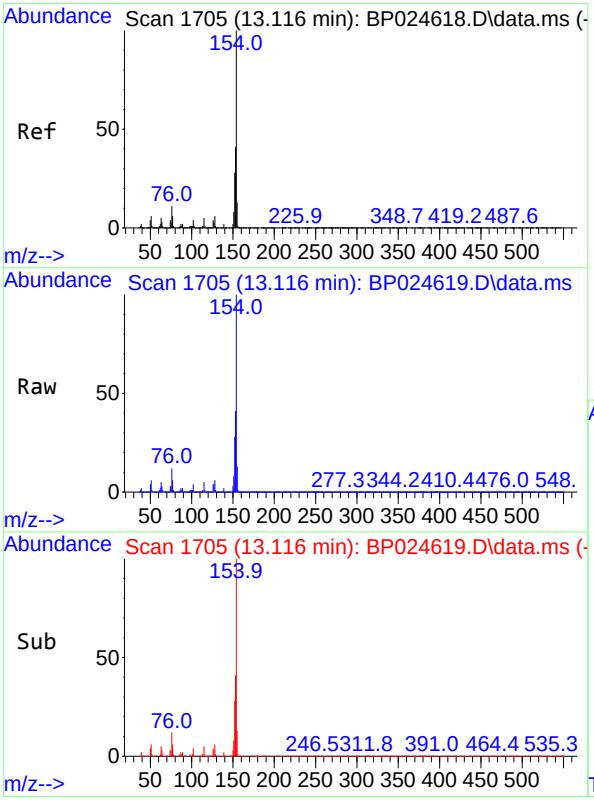
#45
2-Fluorobiphenyl
Concen: 104.96 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:172 Resp: 2553765

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.8	43.2
170	23.7	18.8	28.2

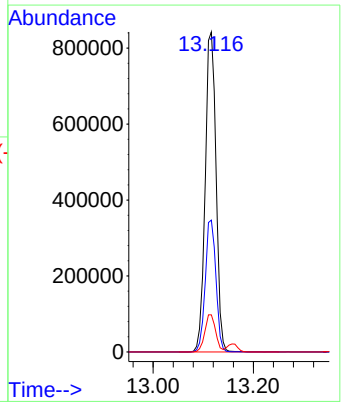


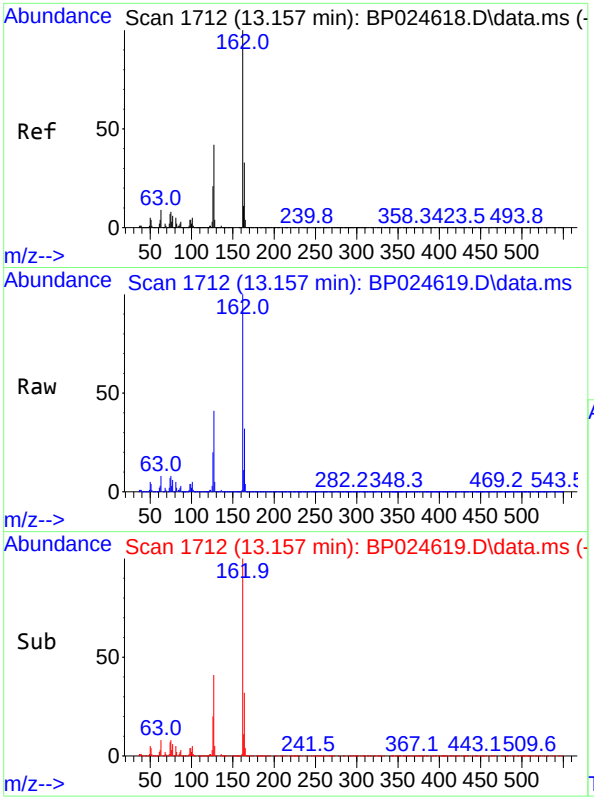


#46
1,1'-Biphenyl
Concen: 53.64 ng
RT: 13.116 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:154 Resp: 1263640

Ion	Ratio	Lower	Upper
154	100		
153	41.2	21.0	61.0
76	11.6	0.0	31.5



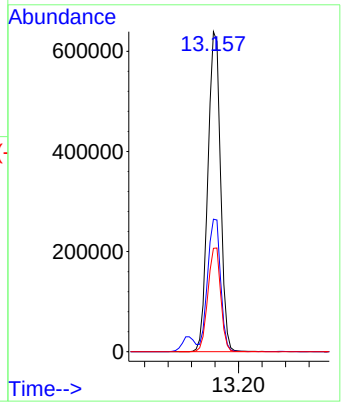


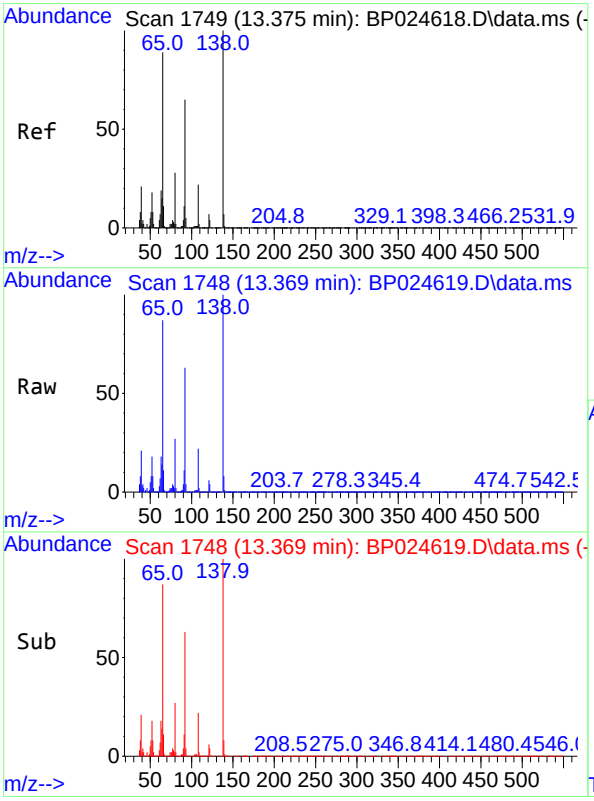
#47
2-Chloronaphthalene
Concen: 53.04 ng
RT: 13.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:162 Resp: 952857

Ion	Ratio	Lower	Upper
162	100		
127	41.4	33.8	50.6
164	32.3	26.0	39.0

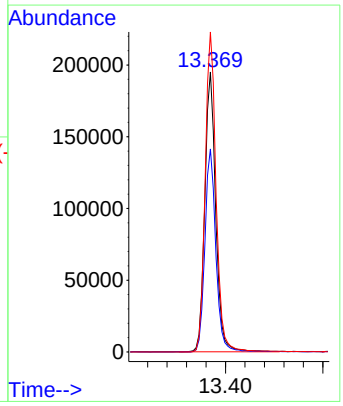


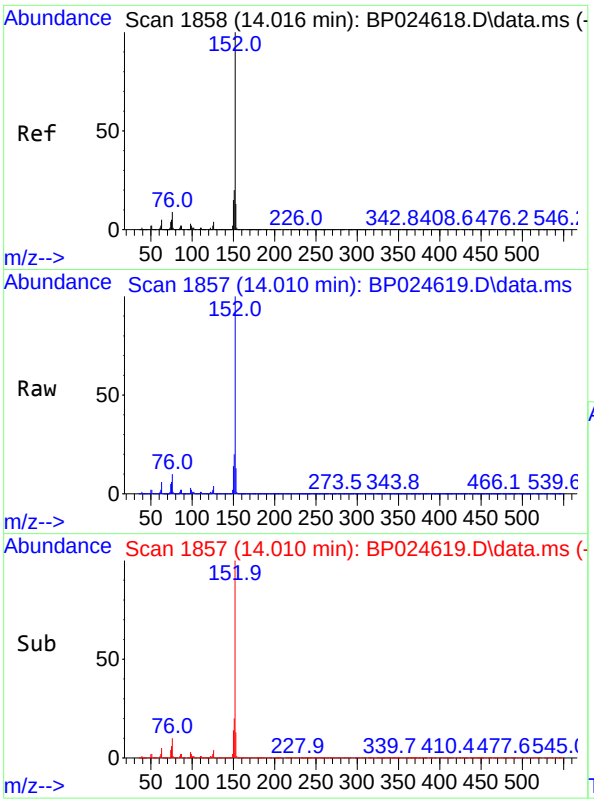


#48
2-Nitroaniline
Concen: 57.06 ng
RT: 13.369 min Scan# 1748
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion: 65 Resp: 303475

Ion	Ratio	Lower	Upper
65	100		
92	72.5	58.7	88.1
138	114.3	90.2	135.2



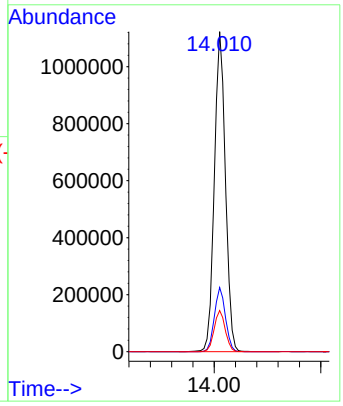


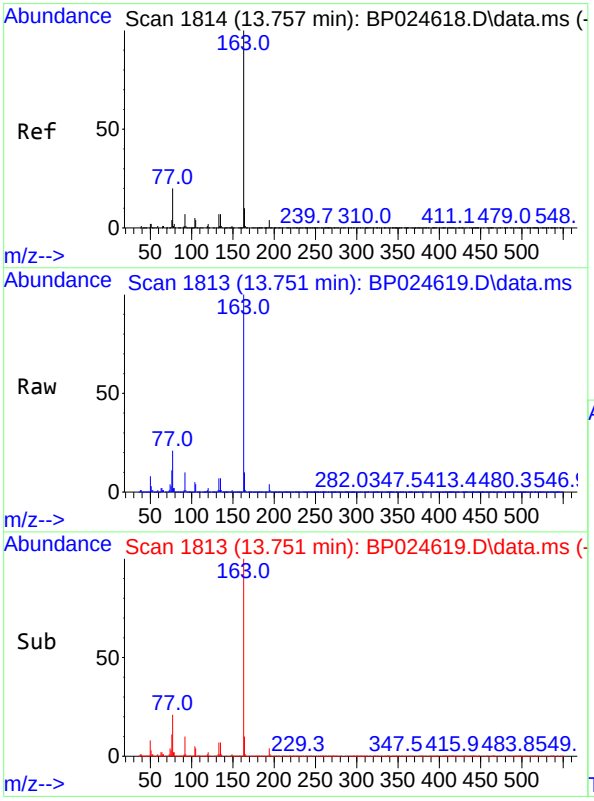
#49
Acenaphthylene
Concen: 53.79 ng
RT: 14.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:152 Resp: 1616938

Ion	Ratio	Lower	Upper
152	100		
151	20.1	16.2	24.4
153	12.9	10.2	15.4

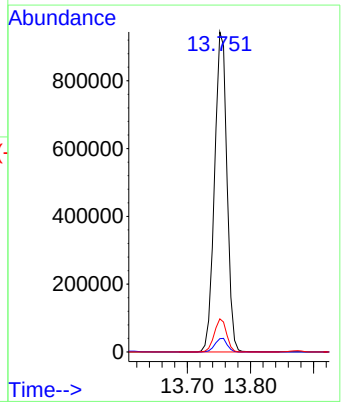


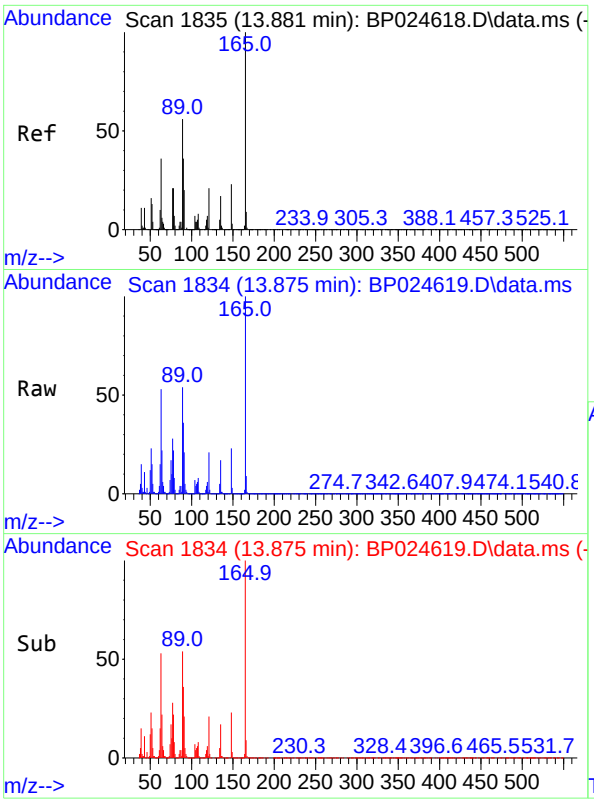


#50
Dimethylphthalate
Concen: 52.83 ng
RT: 13.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:163 Resp: 1283491

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.4	8.1	12.1



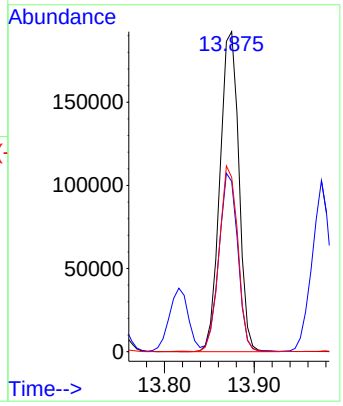


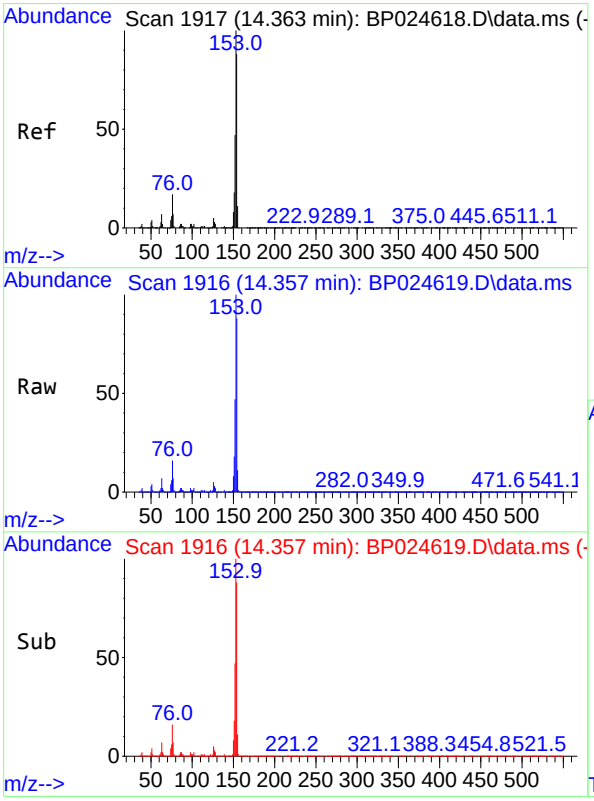
#51
2,6-Dinitrotoluene
Concen: 54.91 ng
RT: 13.875 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 281728

Ion	Ratio	Lower	Upper
165	100		
63	53.2	42.4	63.6
89	54.5	44.8	67.2

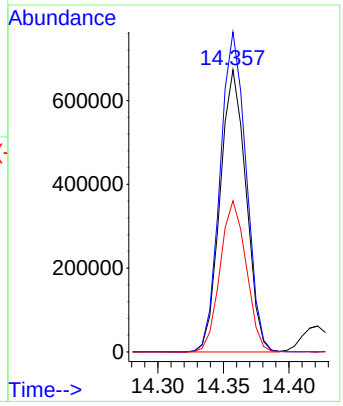


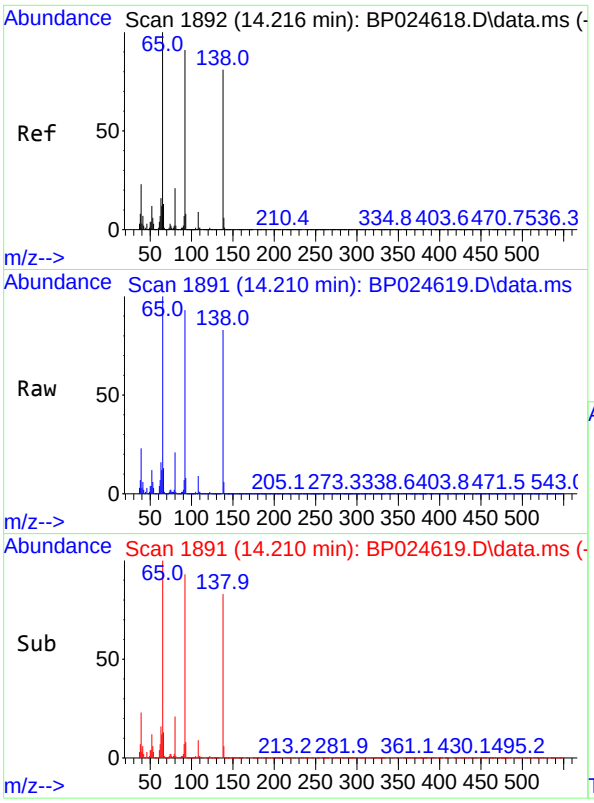


#52
Acenaphthene
Concen: 53.42 ng
RT: 14.357 min Scan# 1916
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:154 Resp: 923238

Ion	Ratio	Lower	Upper
154	100		
153	113.5	91.0	136.4
152	53.6	42.9	64.3



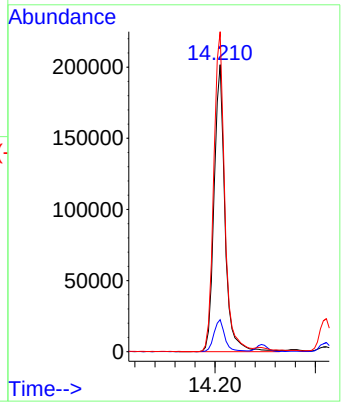


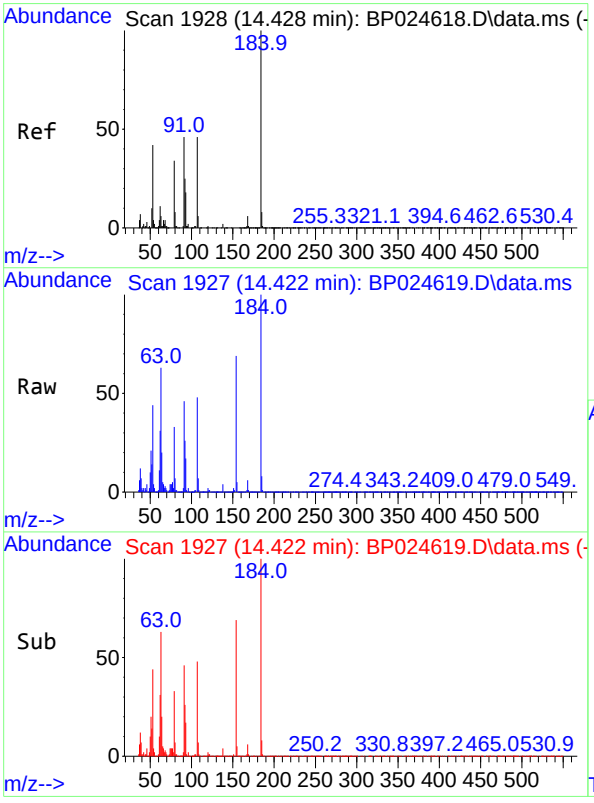
#53
3-Nitroaniline
Concen: 57.71 ng
RT: 14.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:138 Resp: 302341

Ion	Ratio	Lower	Upper
138	100		
108	11.2	9.0	13.4
92	111.5	90.1	135.1

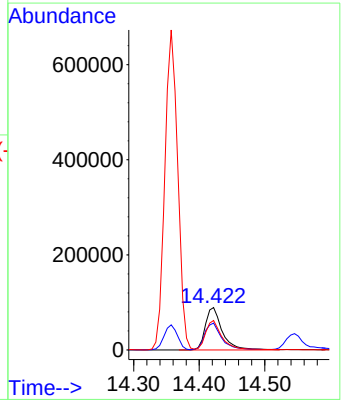


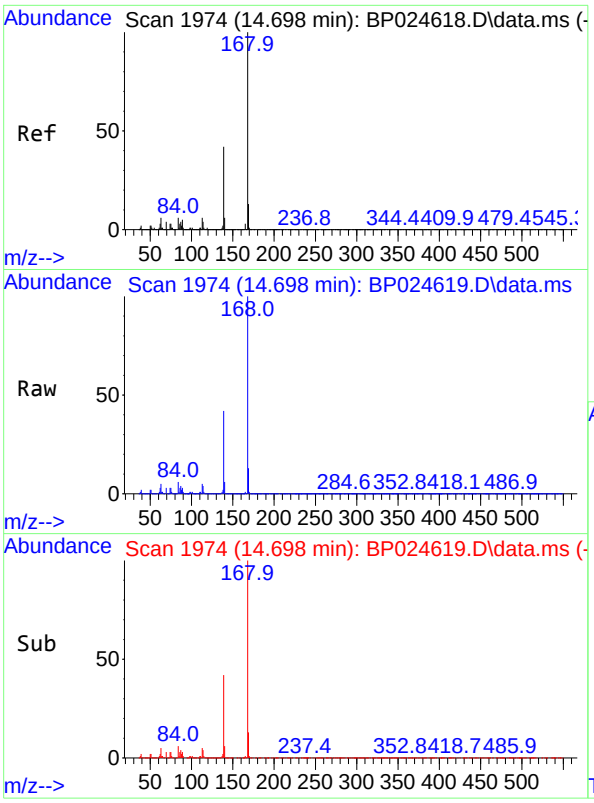


#54
2,4-Dinitrophenol
Concen: 51.86 ng
RT: 14.422 min Scan# 1927
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:184 Resp: 159888

Ion	Ratio	Lower	Upper
184	100		
63	63.3	51.3	76.9
154	69.3	53.5	80.3



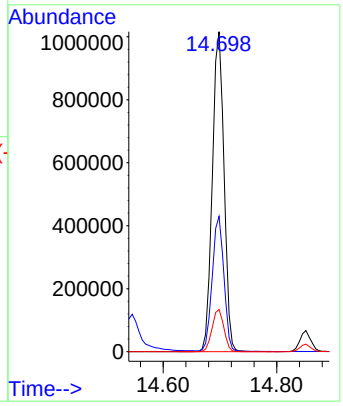


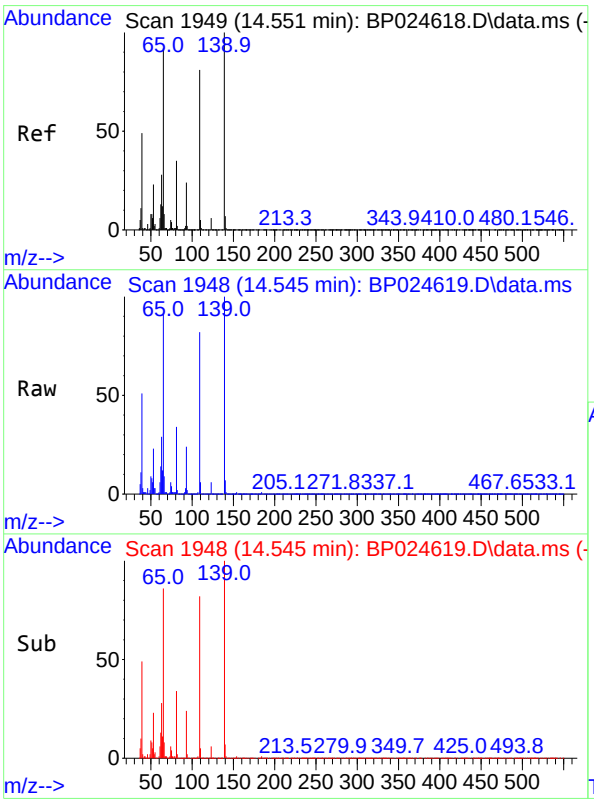
#55
Dibenzofuran
Concen: 52.50 ng
RT: 14.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:168 Resp: 1447333

Ion	Ratio	Lower	Upper
168	100		
139	42.3	34.2	51.4
169	13.2	10.8	16.2

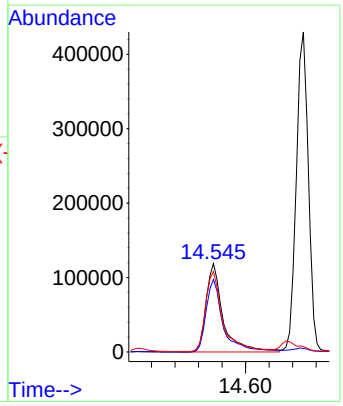


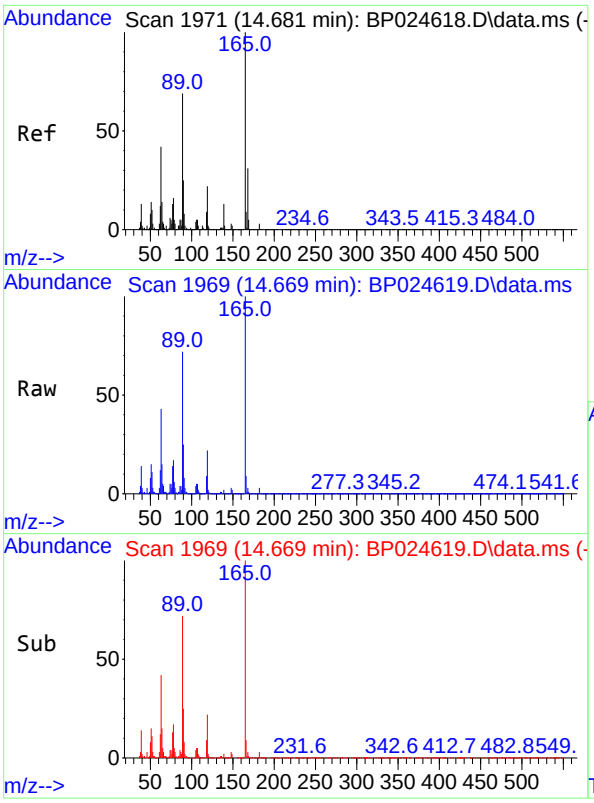


#56
4-Nitrophenol
Concen: 53.99 ng
RT: 14.545 min Scan# 1948
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:139 Resp: 238294

Ion	Ratio	Lower	Upper
139	100		
109	82.0	61.4	101.4
65	90.8	72.2	112.2



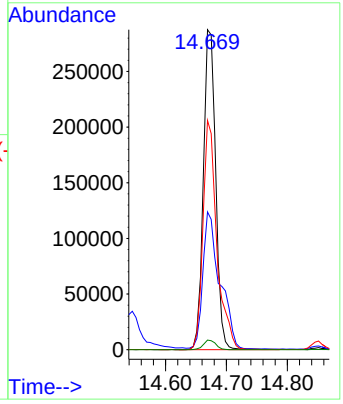


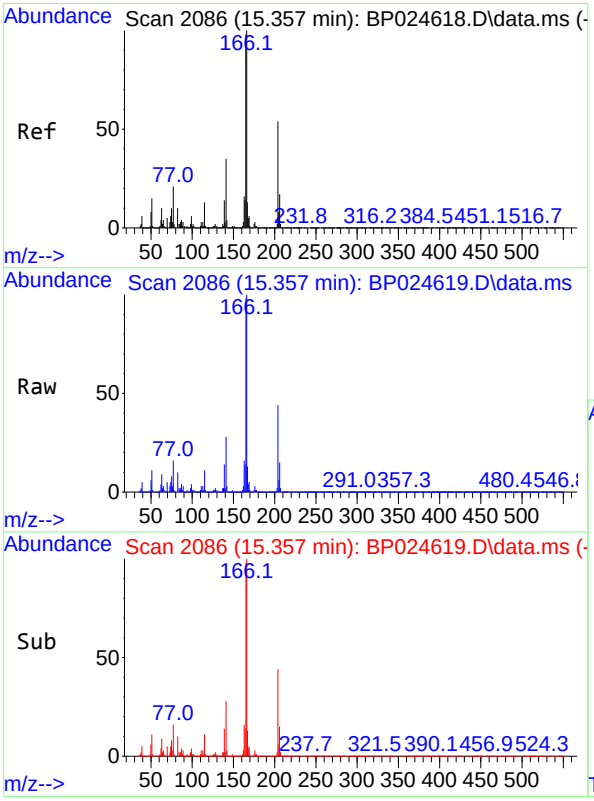
#57
2,4-Dinitrotoluene
Concen: 55.94 ng
RT: 14.669 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:165 Resp: 404684

Ion	Ratio	Lower	Upper
165	100		
63	43.0	33.8	50.6
89	71.7	55.6	83.4
182	3.0	2.4	3.6

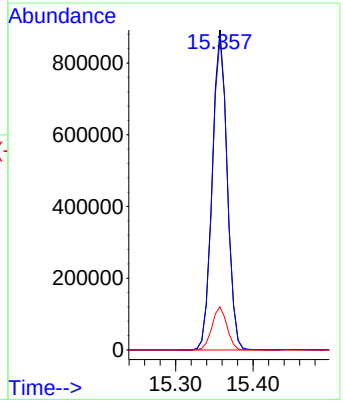


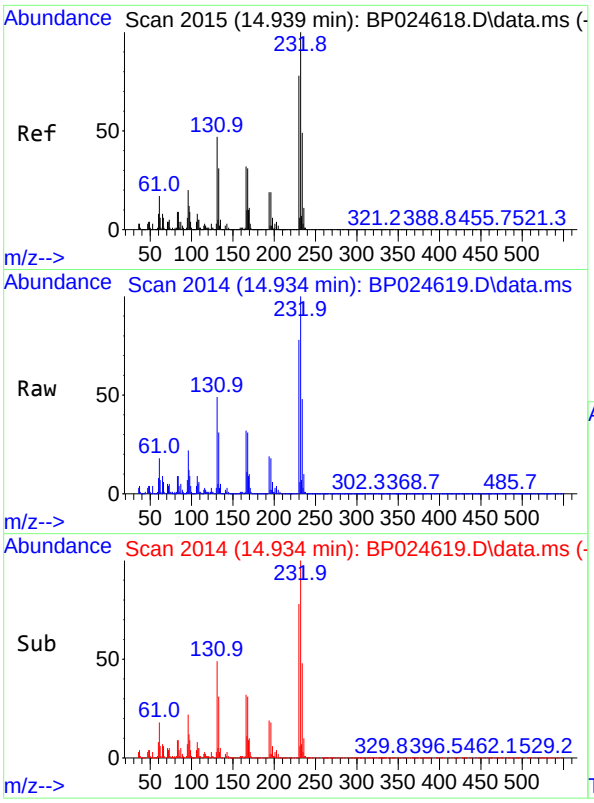


#58
Fluorene
Concen: 52.97 ng
RT: 15.357 min Scan# 2086
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:166 Resp: 1190632

Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.5	117.7
167	13.4	10.7	16.1



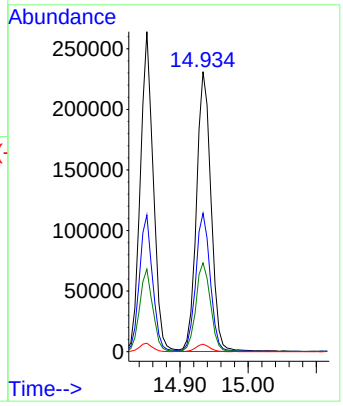


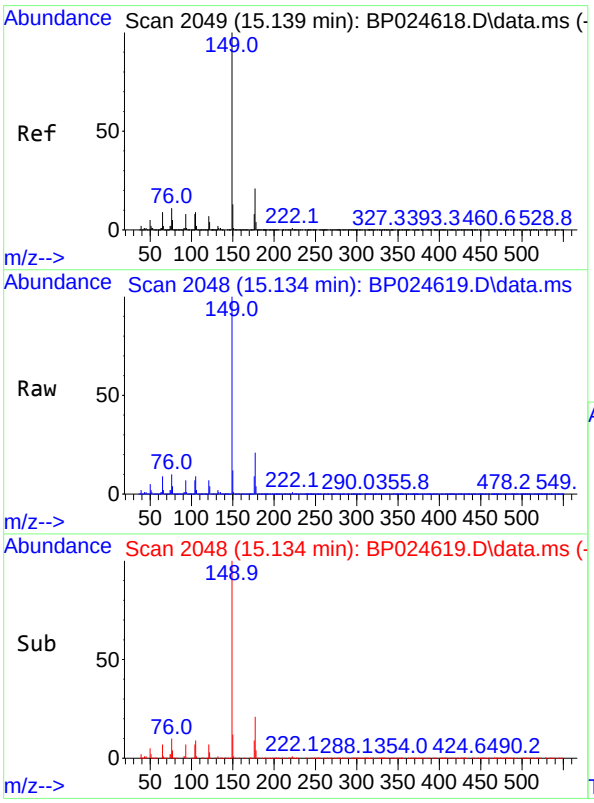
#59
2,3,4,6-Tetrachlorophenol
Concen: 55.11 ng
RT: 14.934 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:232 Resp: 341204

Ion	Ratio	Lower	Upper
232	100		
131	49.3	39.5	59.3
130	2.6	2.2	3.4
166	31.8	25.7	38.5

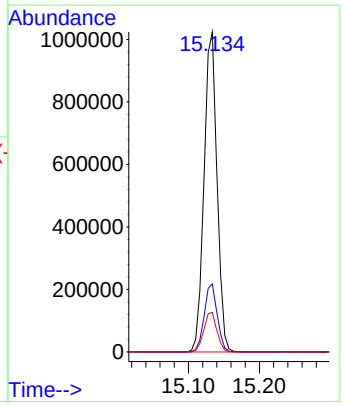


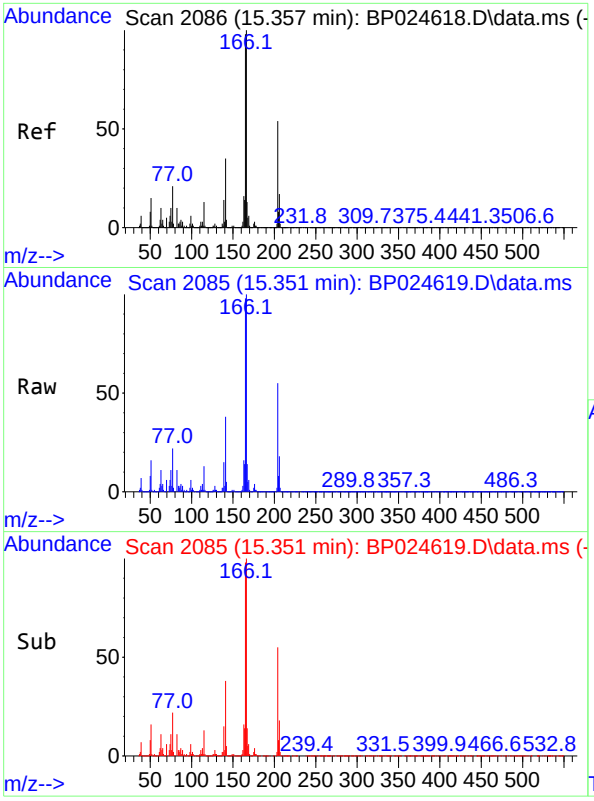


#60
Diethylphthalate
Concen: 53.18 ng
RT: 15.134 min Scan# 2048
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:149 Resp: 1305791

Ion	Ratio	Lower	Upper
149	100		
177	21.3	16.7	25.1
150	12.3	10.2	15.2



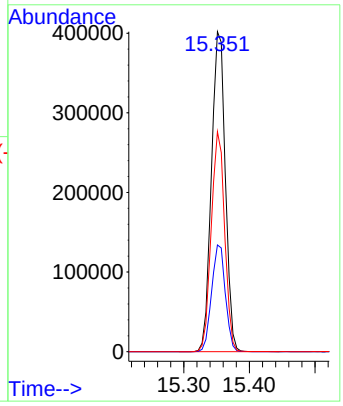


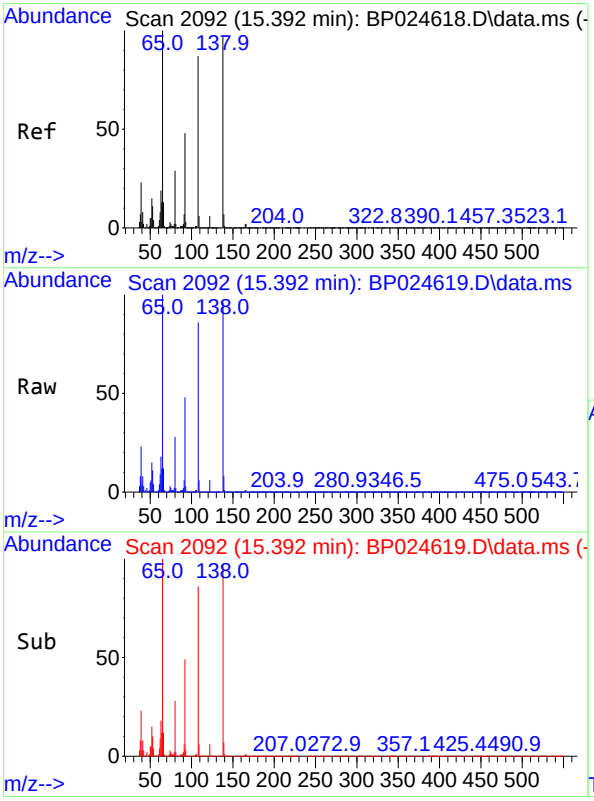
#61
4-Chlorophenyl-phenylether
Concen: 52.67 ng
RT: 15.351 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:204 Resp: 590421

Ion	Ratio	Lower	Upper
204	100		
206	33.4	26.0	39.0
141	68.7	52.9	79.3

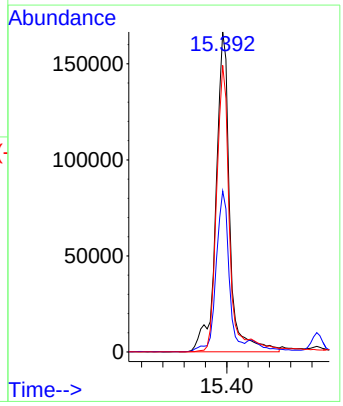


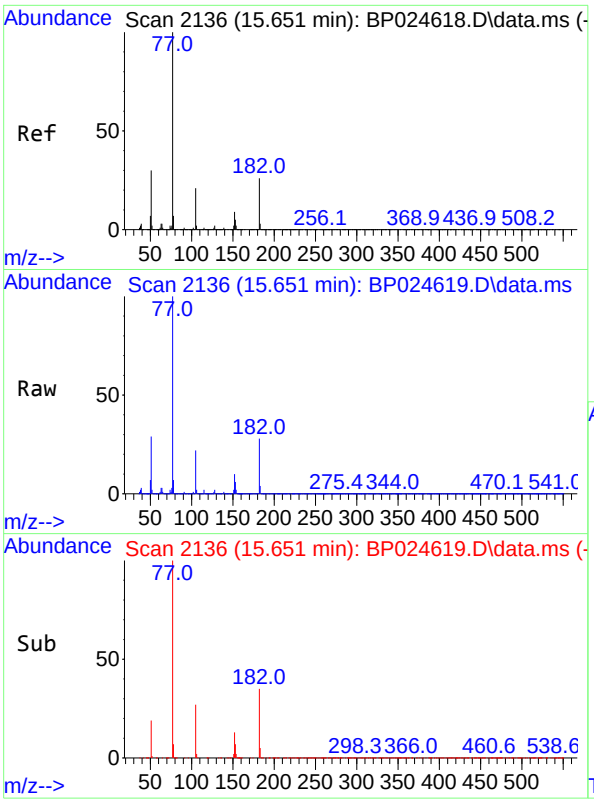


#62
4-Nitroaniline
Concen: 58.55 ng
RT: 15.392 min Scan# 2092
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:138 Resp: 298681

Ion	Ratio	Lower	Upper
138	100		
92	50.3	29.2	69.2
108	89.6	69.0	109.0



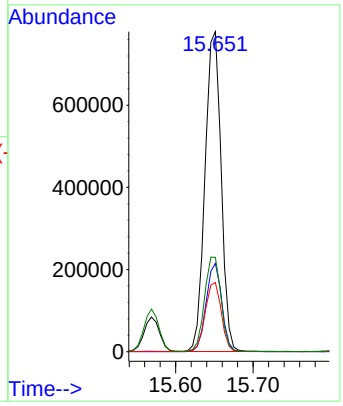


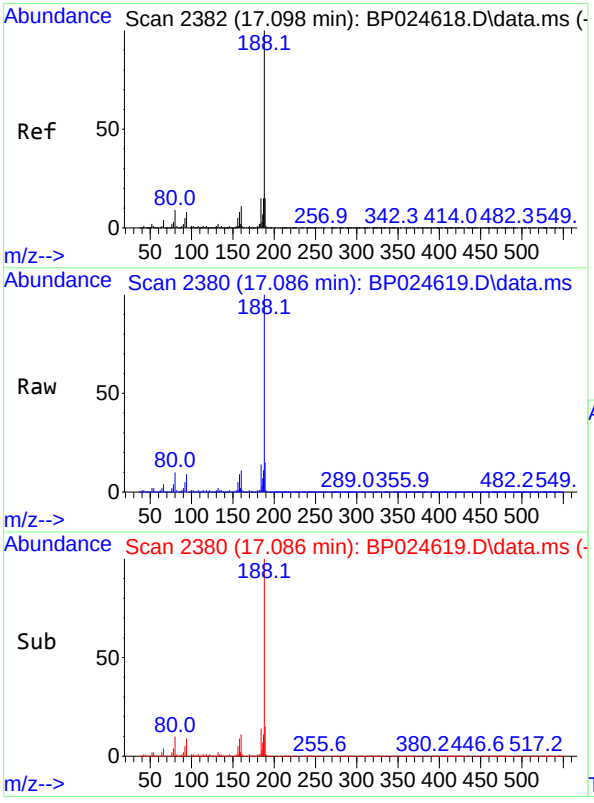
#63
Azobenzene
Concen: 53.39 ng
RT: 15.651 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion: 77 Resp: 1121556

Ion	Ratio	Lower	Upper
77	100		
182	27.6	5.7	45.7
105	21.6	1.3	41.3
51	29.5	10.6	50.6

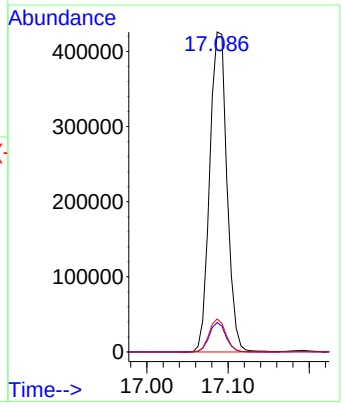


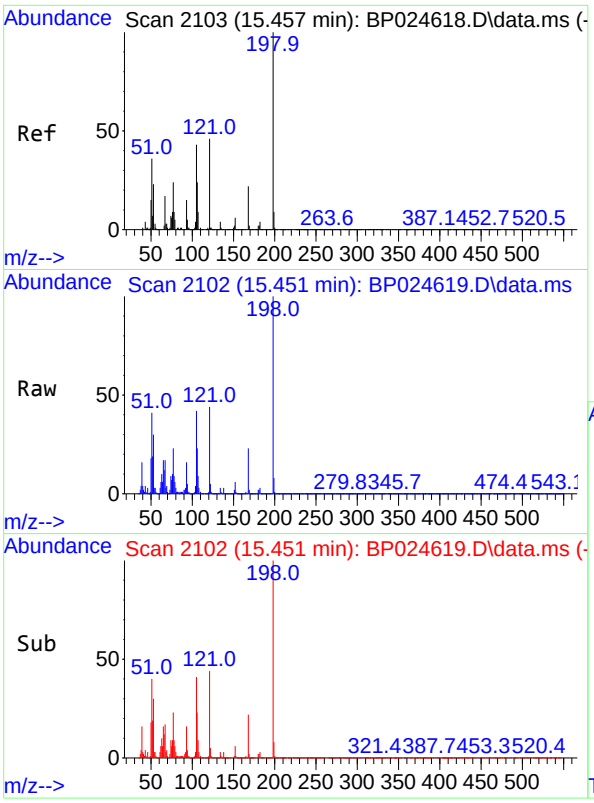


#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.086 min Scan# 2380
Delta R.T. -0.012 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:188 Resp: 628781

Ion	Ratio	Lower	Upper
188	100		
94	9.2	6.5	9.7
80	10.3	7.3	10.9



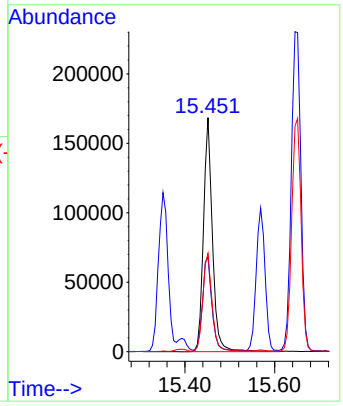


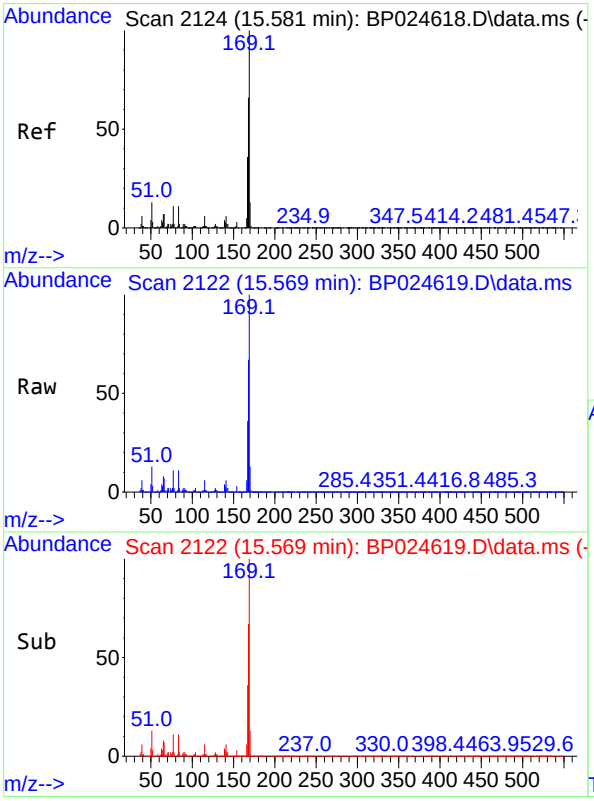
#65
4,6-Dinitro-2-methylphenol
Concen: 57.64 ng
RT: 15.451 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:198 Resp: 234095

Ion	Ratio	Lower	Upper
198	100		
51	40.5	21.1	61.1
105	42.1	23.6	63.6

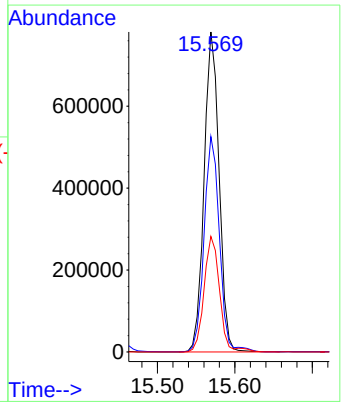


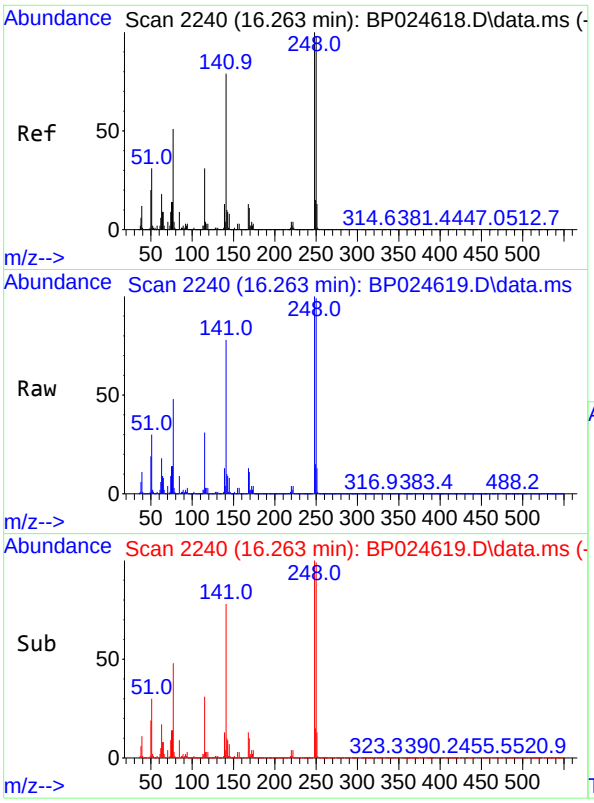


#66
n-Nitrosodiphenylamine
Concen: 54.28 ng
RT: 15.569 min Scan# 2122
Delta R.T. -0.012 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:169 Resp: 1048396

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.2	79.8
167	36.1	28.6	43.0



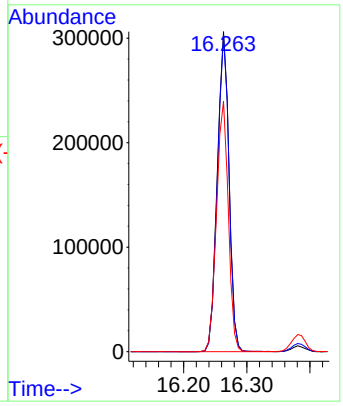


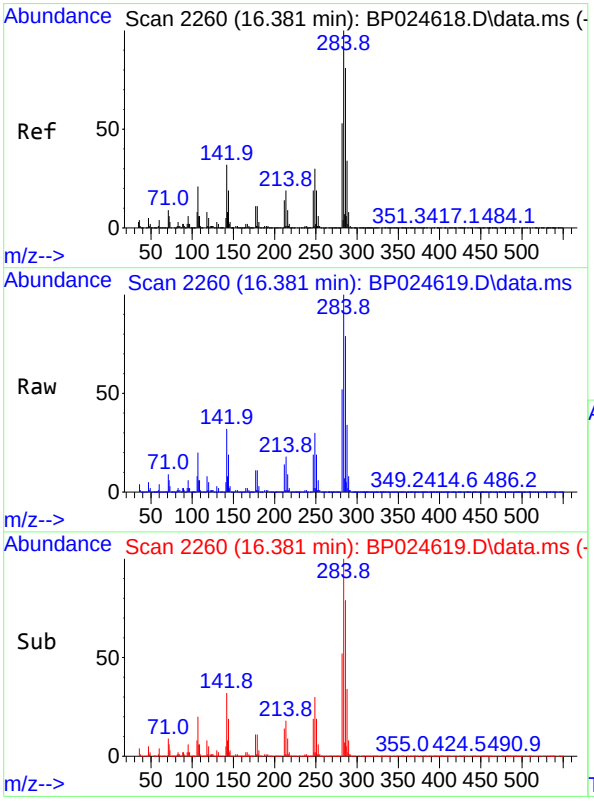
#67
4-Bromophenyl-phenylether
Concen: 53.50 ng
RT: 16.263 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:248 Resp: 396385

Ion	Ratio	Lower	Upper
248	100		
250	99.0	78.2	117.4
141	78.2	63.0	94.6

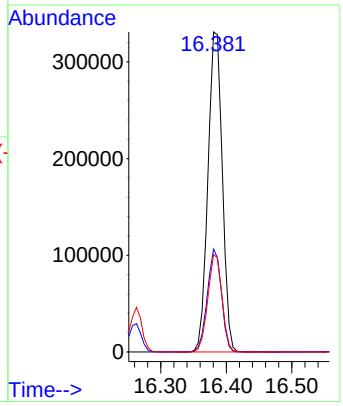


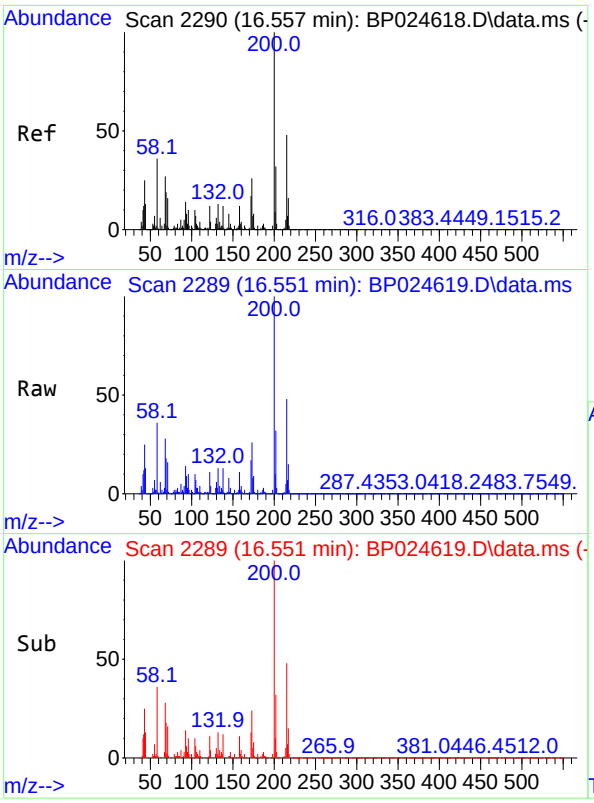


#68
Hexachlorobenzene
Concen: 53.64 ng
RT: 16.381 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:284 Resp: 504987

Ion	Ratio	Lower	Upper
284	100		
142	32.1	25.9	38.9
249	30.4	24.1	36.1



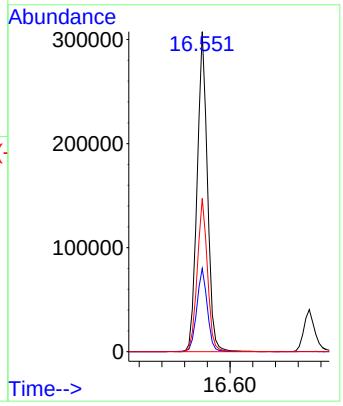


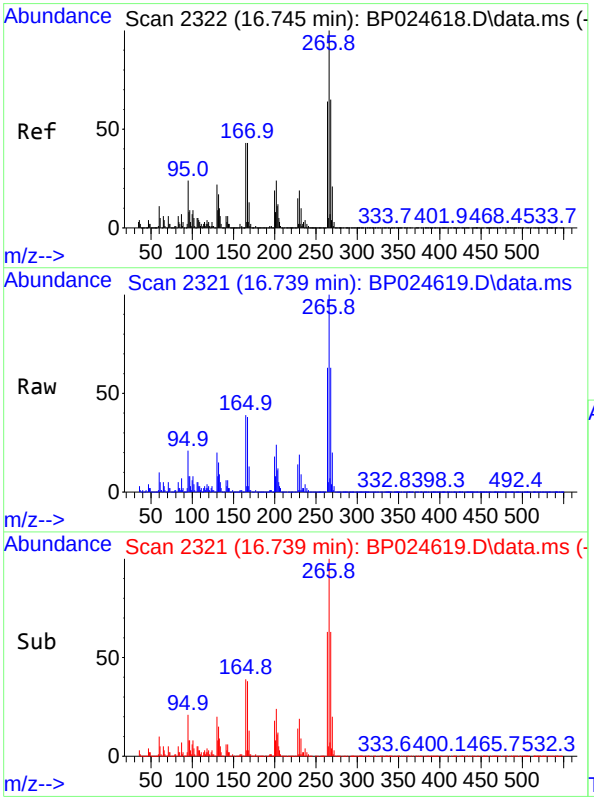
#69
Atrazine
Concen: 55.07 ng
RT: 16.551 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:200 Resp: 389749

Ion	Ratio	Lower	Upper
200	100		
173	26.0	5.9	45.9
215	47.9	28.3	68.3

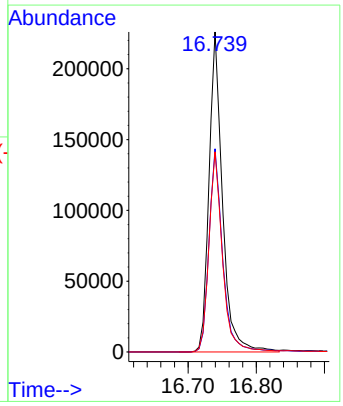


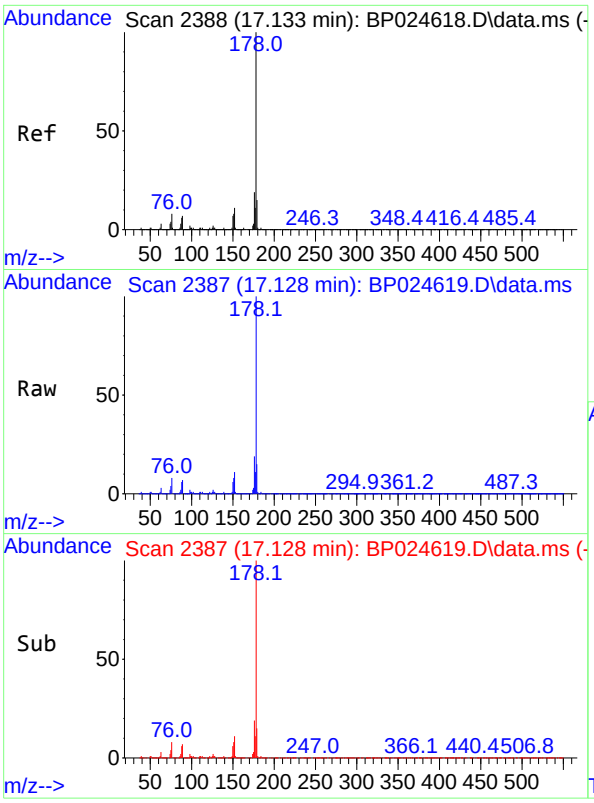


#70
Pentachlorophenol
Concen: 58.71 ng
RT: 16.739 min Scan# 2321
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:266 Resp: 310477

Ion	Ratio	Lower	Upper
266	100		
268	63.5	52.2	78.4
264	62.6	51.1	76.7



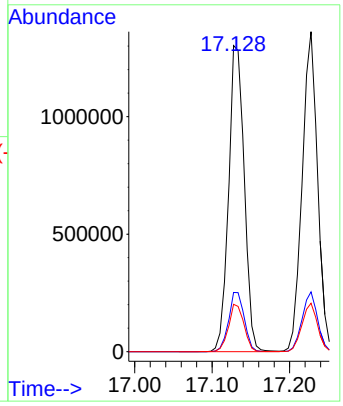


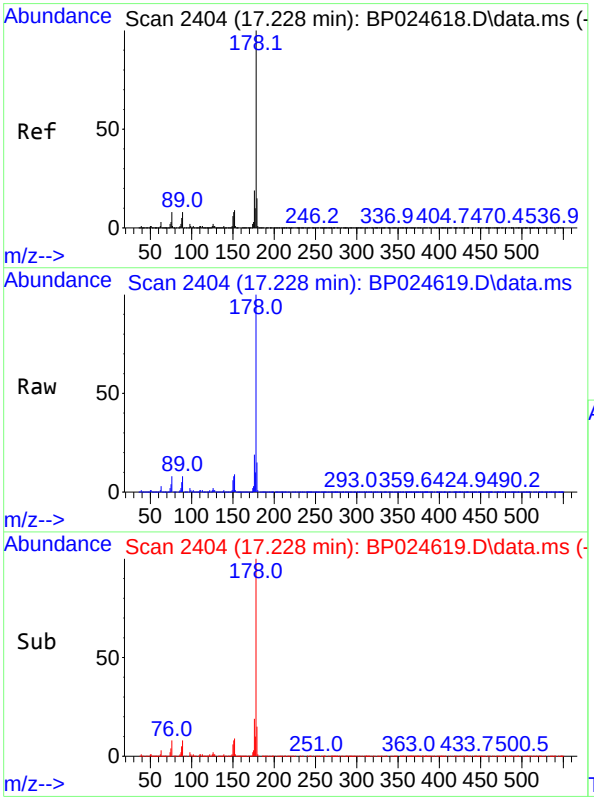
#71
Phenanthrene
Concen: 52.61 ng
RT: 17.128 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:178 Resp: 1838891

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.5	12.2	18.4

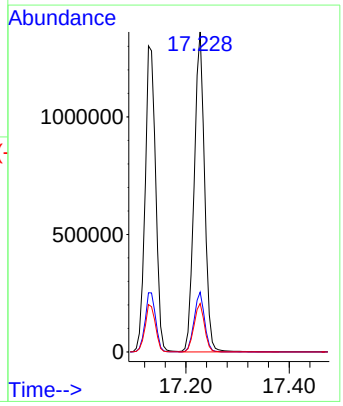


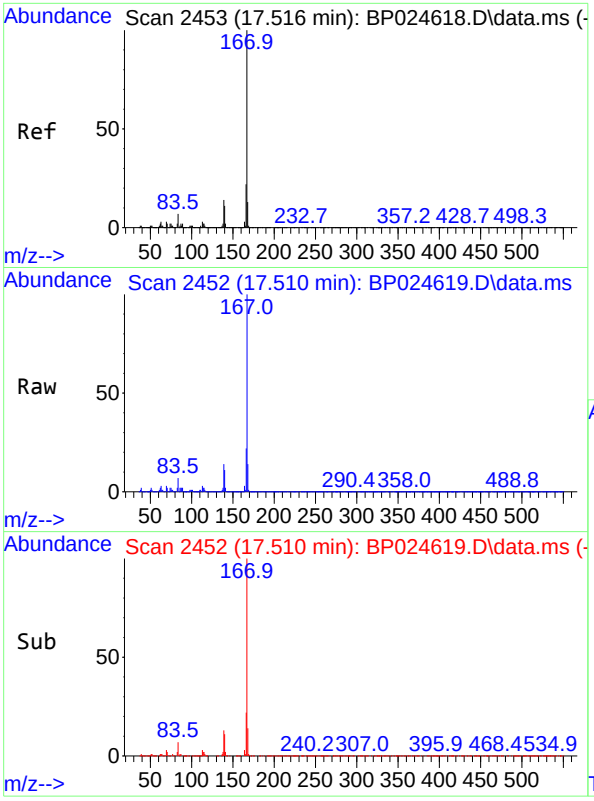


#72
Anthracene
Concen: 53.87 ng
RT: 17.228 min Scan# 2404
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:178 Resp: 1894573

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.1	12.2	18.2



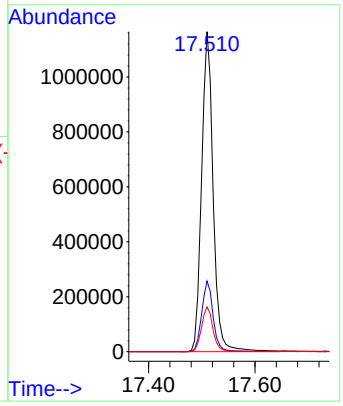


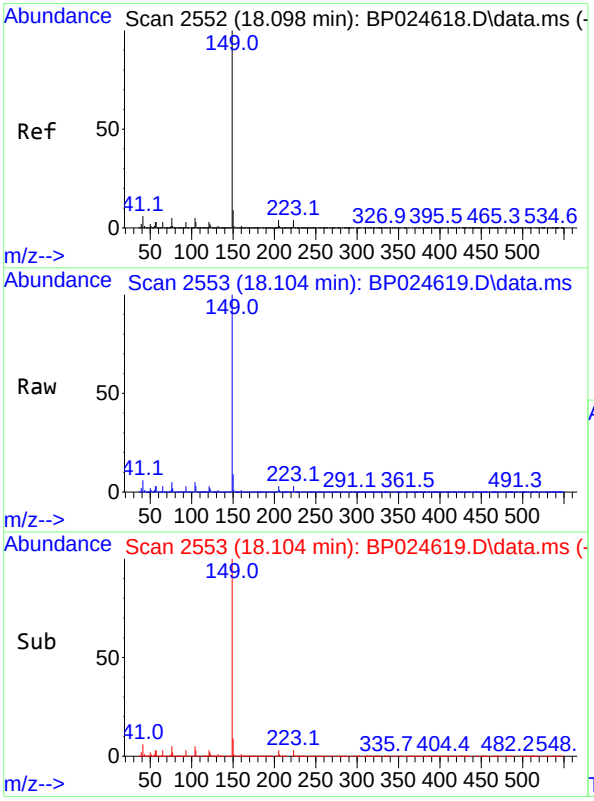
#73
Carbazole
Concen: 55.00 ng
RT: 17.510 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:167 Resp: 1750681

Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.7	26.5
139	14.0	11.3	16.9

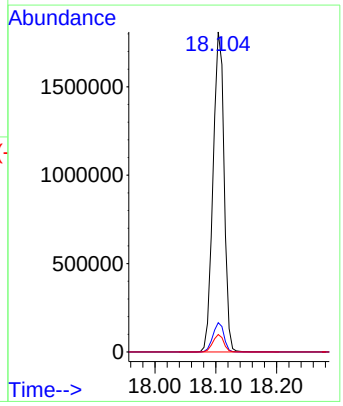


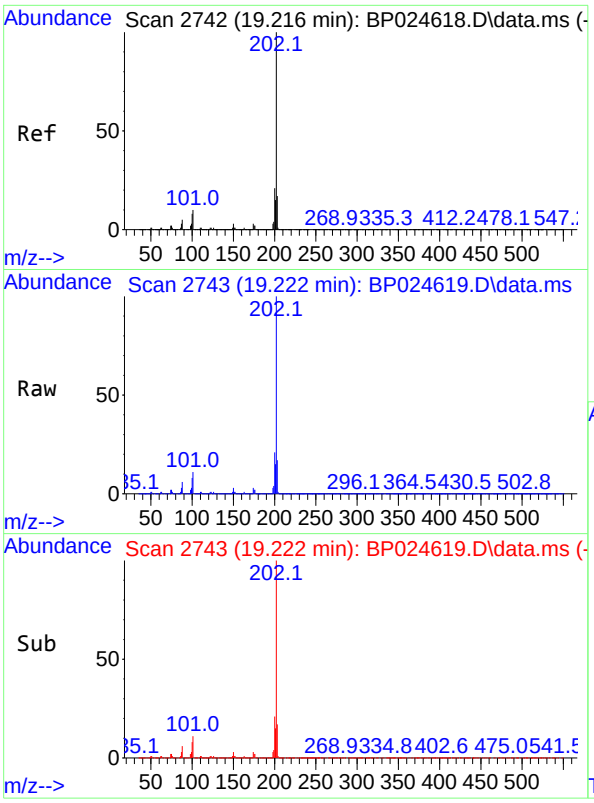


#74
Di-n-butylphthalate
Concen: 55.58 ng
RT: 18.104 min Scan# 2553
Delta R.T. 0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:149 Resp: 2275163

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	5.4	4.3	6.5



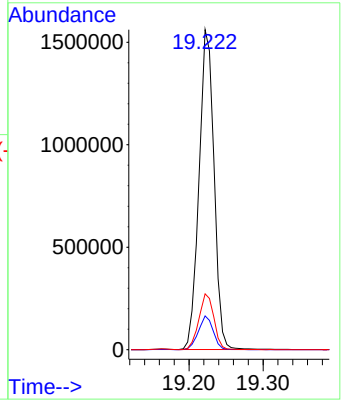


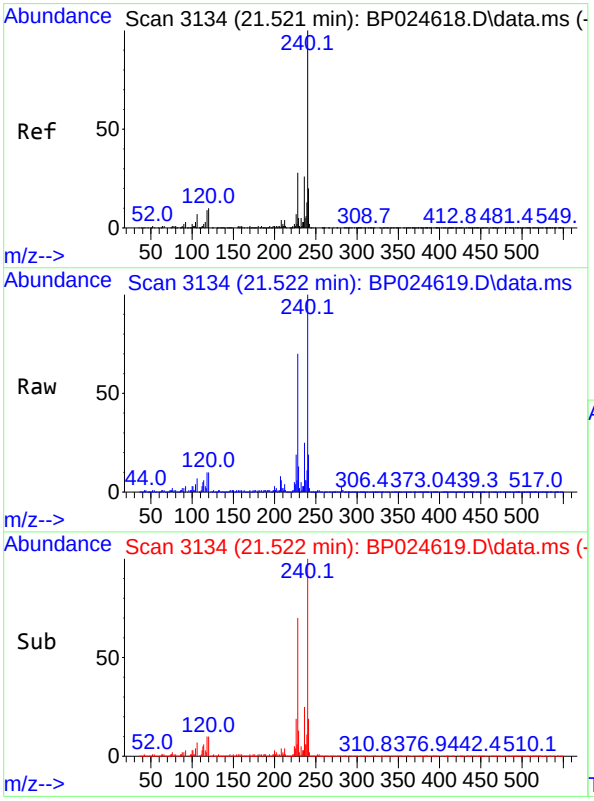
#75
Fluoranthene
Concen: 53.84 ng
RT: 19.222 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:202 Resp: 2199818

Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	30.3
203	17.4	0.0	37.5

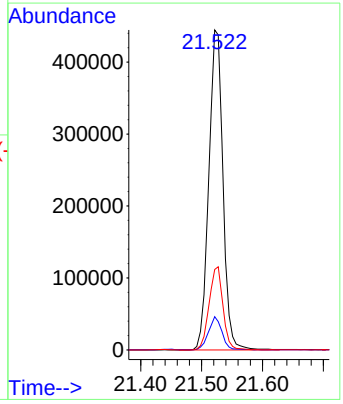


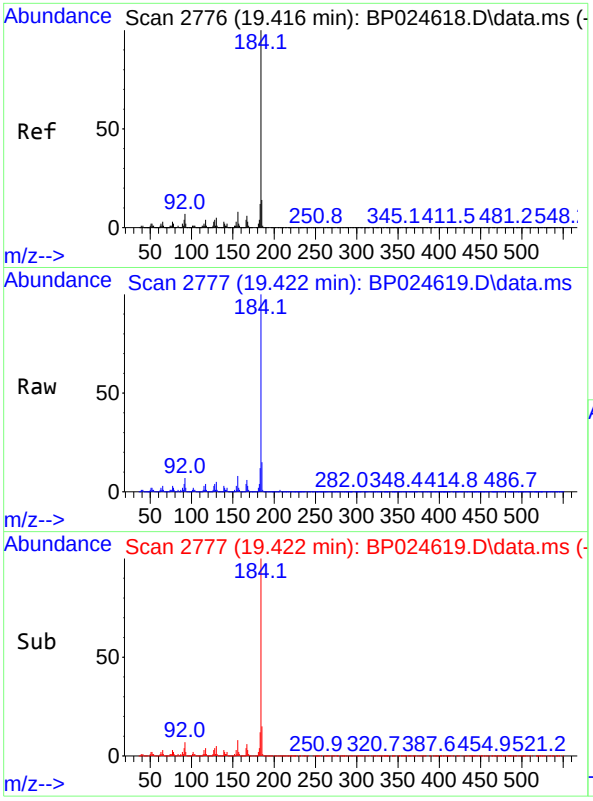


#76
Chrysene-d12
Concen: 20.00 ng
RT: 21.522 min Scan# 3134
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:240 Resp: 717340

Ion	Ratio	Lower	Upper
240	100		
120	10.4	7.8	11.6
236	25.1	20.6	31.0



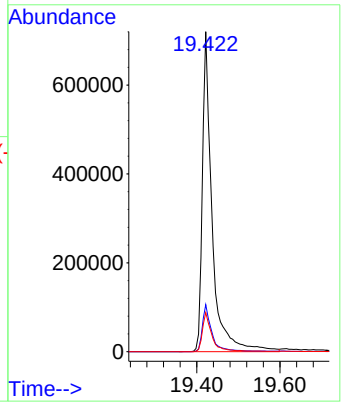


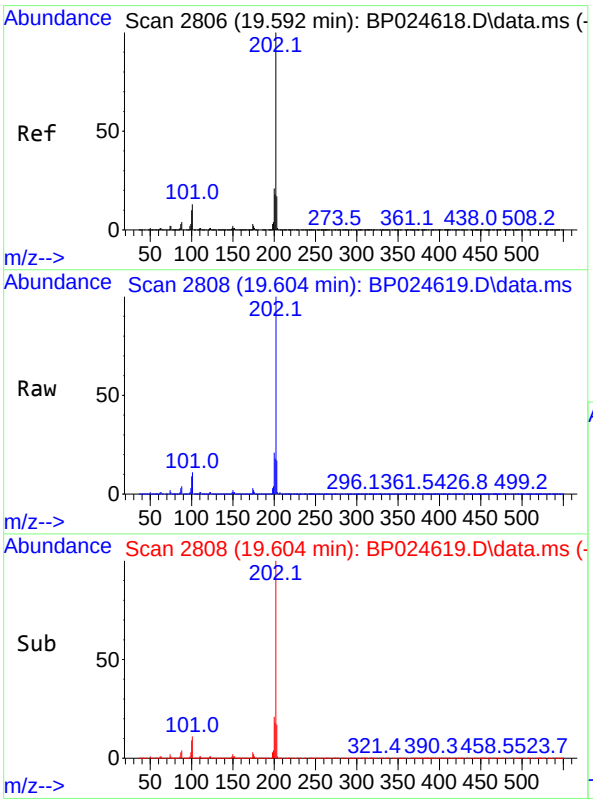
#77
Benzidine
Concen: 59.85 ng
RT: 19.422 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:184 Resp: 1178505

Ion	Ratio	Lower	Upper
184	100		
185	14.7	11.2	16.8
183	12.2	9.8	14.8

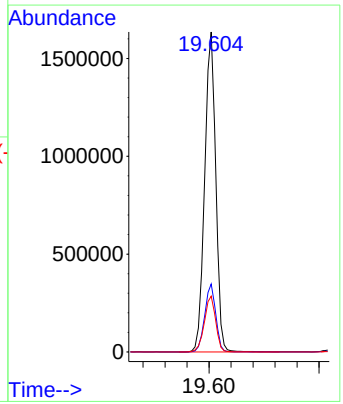


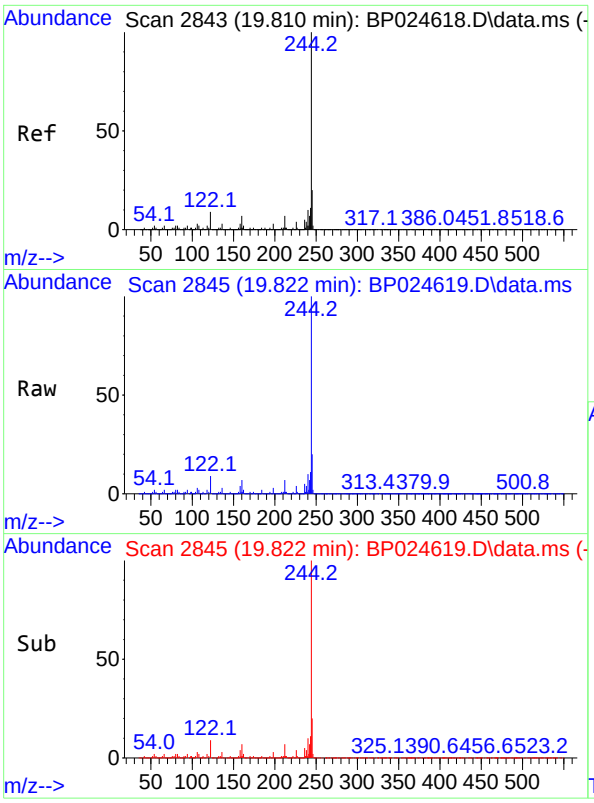


#78
Pyrene
Concen: 53.11 ng
RT: 19.604 min Scan# 2808
Delta R.T. 0.012 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:202 Resp: 2282702

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	17.4	13.9	20.9



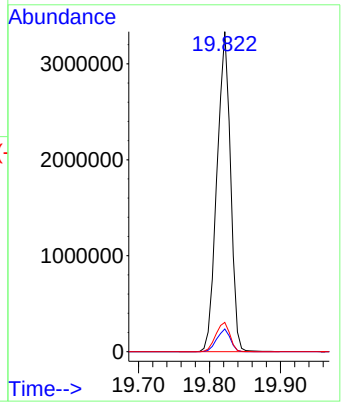


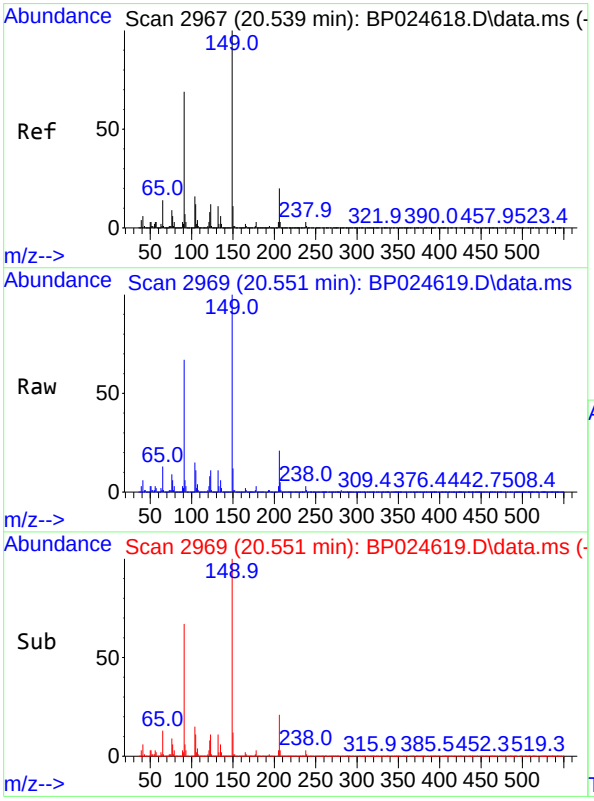
#79
Terphenyl-d14
Concen: 105.15 ng
RT: 19.822 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:244 Resp: 4398872

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.5	8.3
122	9.2	7.4	11.0

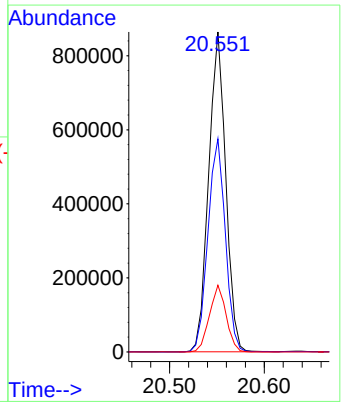


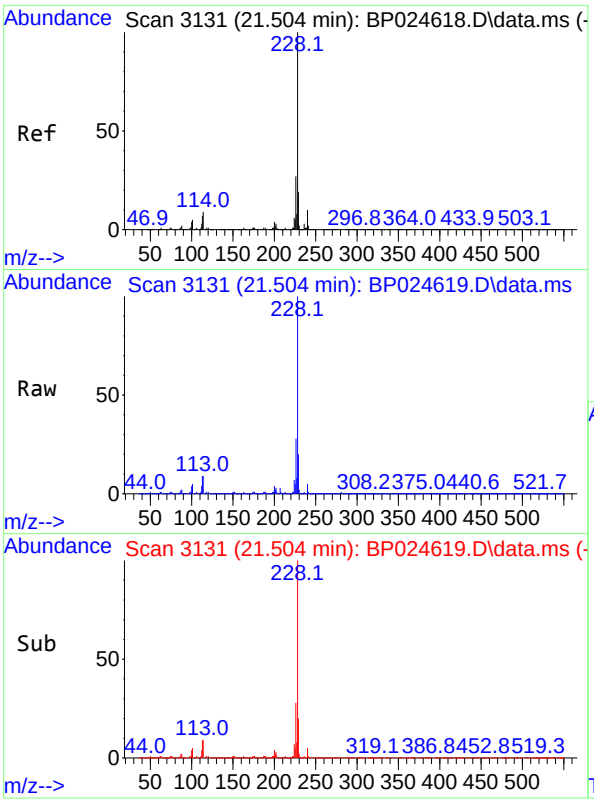


#80
Butylbenzylphthalate
Concen: 56.68 ng
RT: 20.551 min Scan# 2969
Delta R.T. 0.012 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:149 Resp: 1083395

Ion	Ratio	Lower	Upper
149	100		
91	66.6	55.4	83.0
206	20.8	16.2	24.2



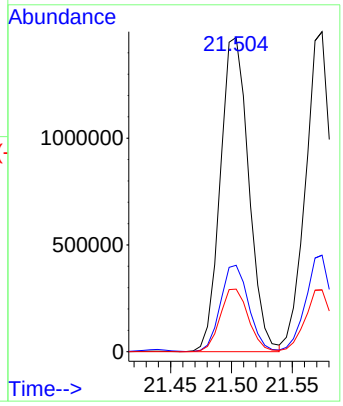


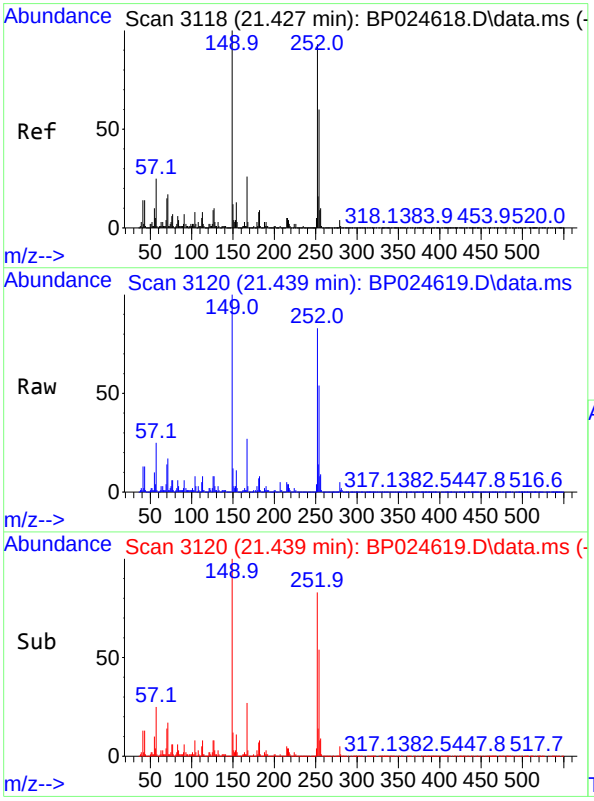
#81
Benzo(a)anthracene
Concen: 53.20 ng
RT: 21.504 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 2396398

Ion	Ratio	Lower	Upper
228	100		
226	27.5	21.4	32.0
229	19.9	15.5	23.3

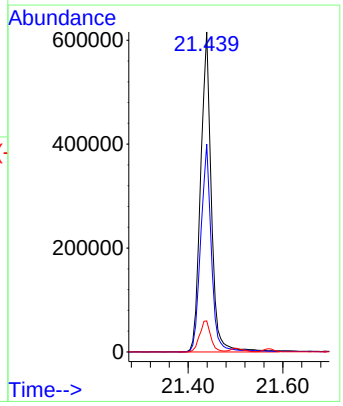


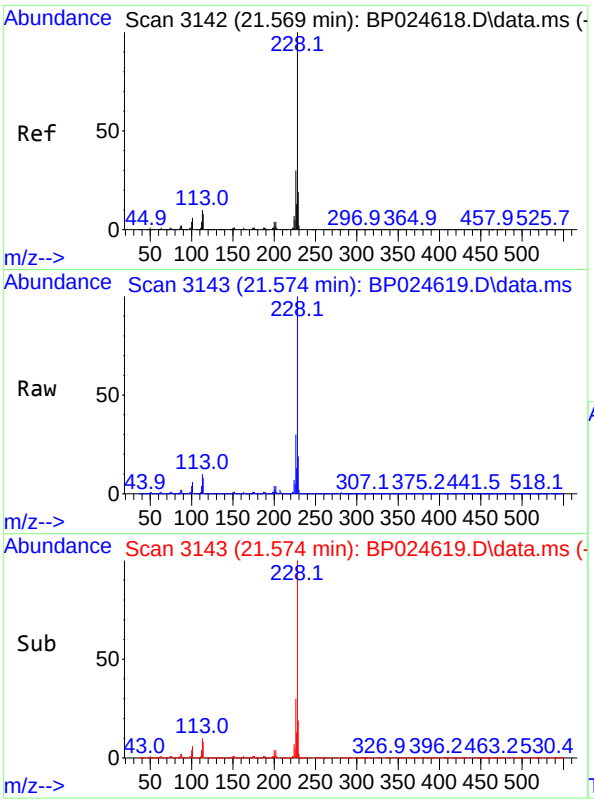


#82
3,3'-Dichlorobenzidine
Concen: 57.80 ng
RT: 21.439 min Scan# 3120
Delta R.T. 0.012 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:252 Resp: 966906

Ion	Ratio	Lower	Upper
252	100		
254	65.0	51.8	77.6
126	9.7	7.7	11.5



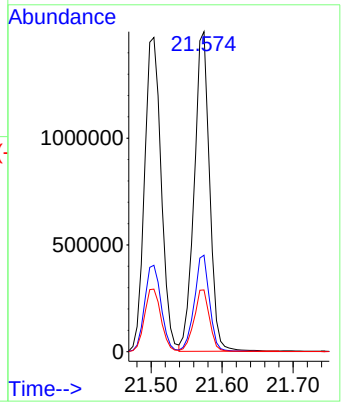


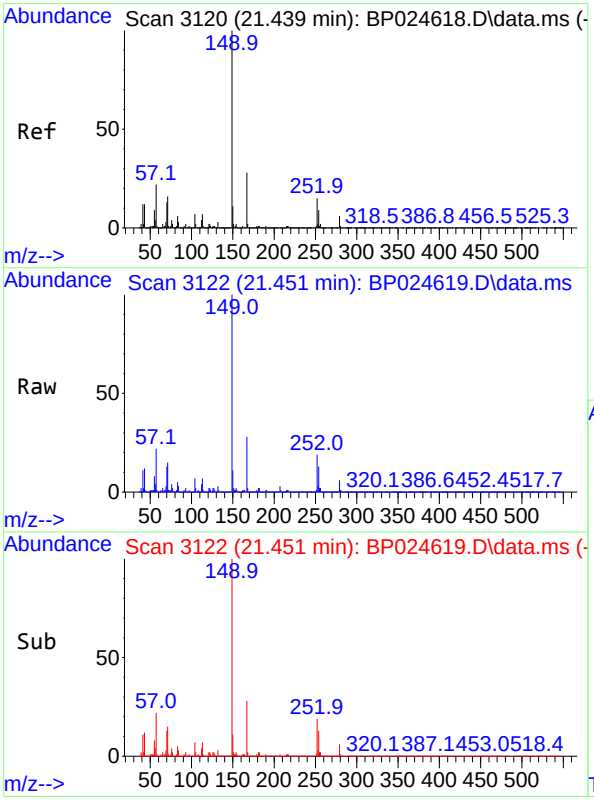
#83
Chrysene
Concen: 52.71 ng
RT: 21.574 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:228 Resp: 2250800

Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.9	35.9
229	19.3	15.5	23.3

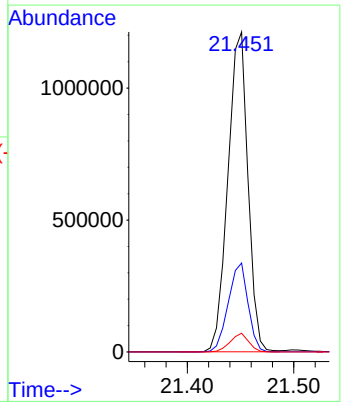


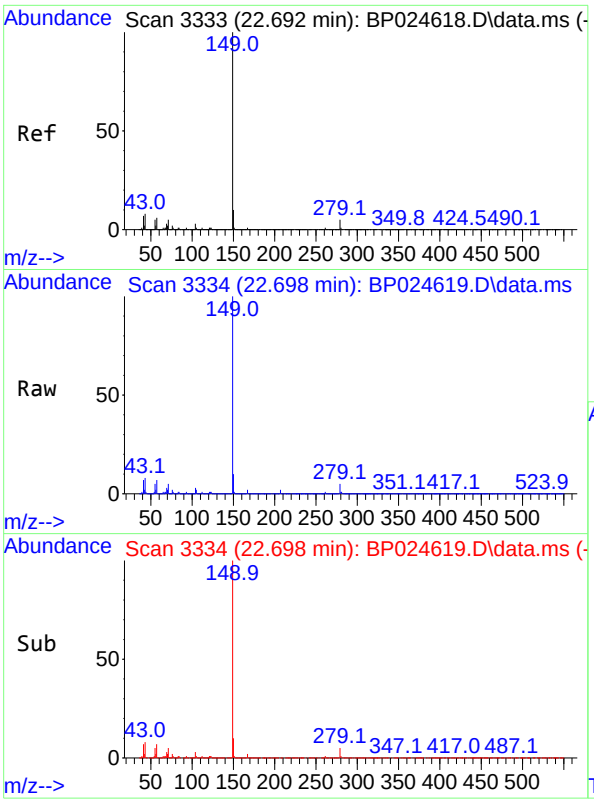


#84
Bis(2-ethylhexyl)phthalate
Concen: 56.42 ng
RT: 21.451 min Scan# 3122
Delta R.T. 0.012 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:149 Resp: 1585070

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.1	33.1
279	5.9	4.6	6.8



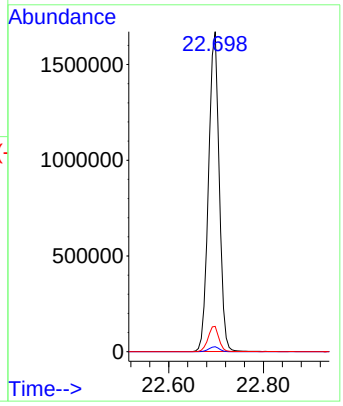


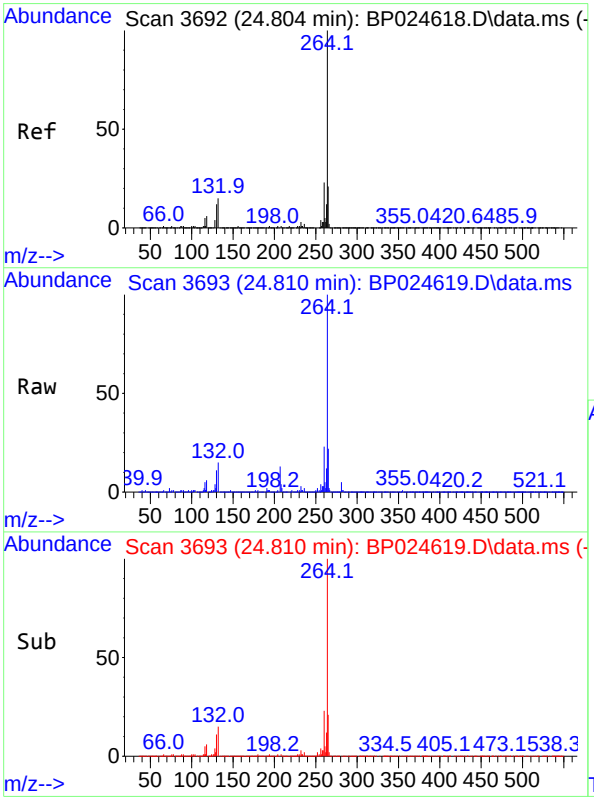
#85
Di-n-octyl phthalate
Concen: 56.91 ng
RT: 22.698 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:149 Resp: 2614856

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	8.0	6.3	9.5

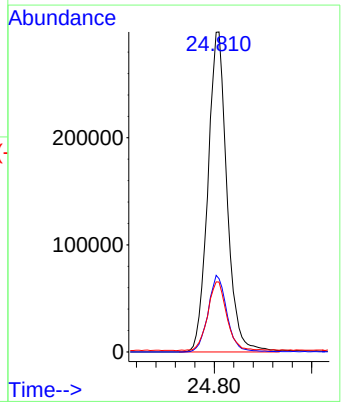


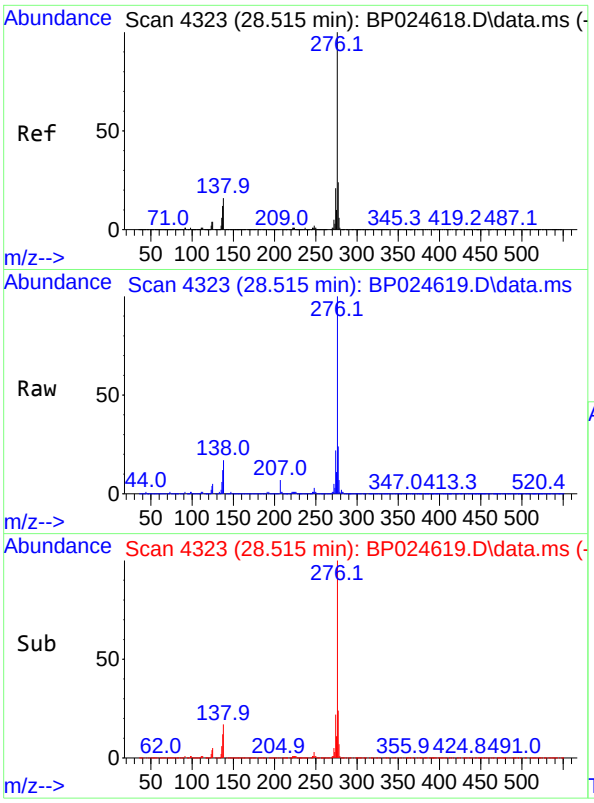


#86
Perylene-d12
Concen: 20.00 ng
RT: 24.810 min Scan# 3693
Delta R.T. 0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:264 Resp: 811421

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.7	28.1
265	21.9	17.0	25.6



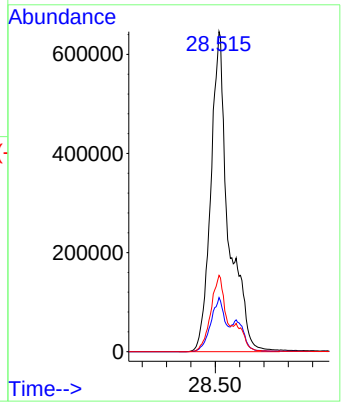


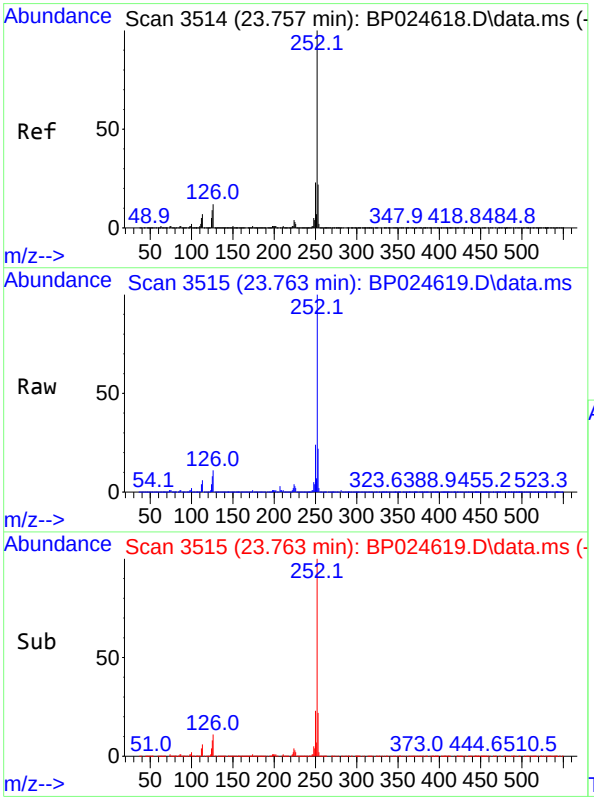
#87
Indeno(1,2,3-cd)pyrene
Concen: 55.06 ng
RT: 28.515 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:276 Resp: 3262830

Ion	Ratio	Lower	Upper
276	100		
138	13.6	11.2	16.8
277	19.3	15.7	23.5

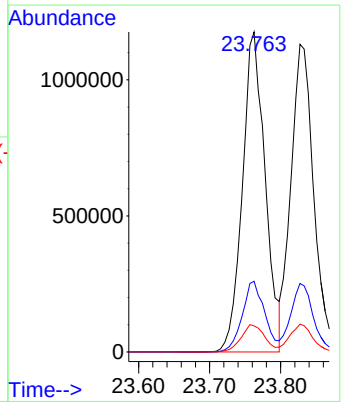


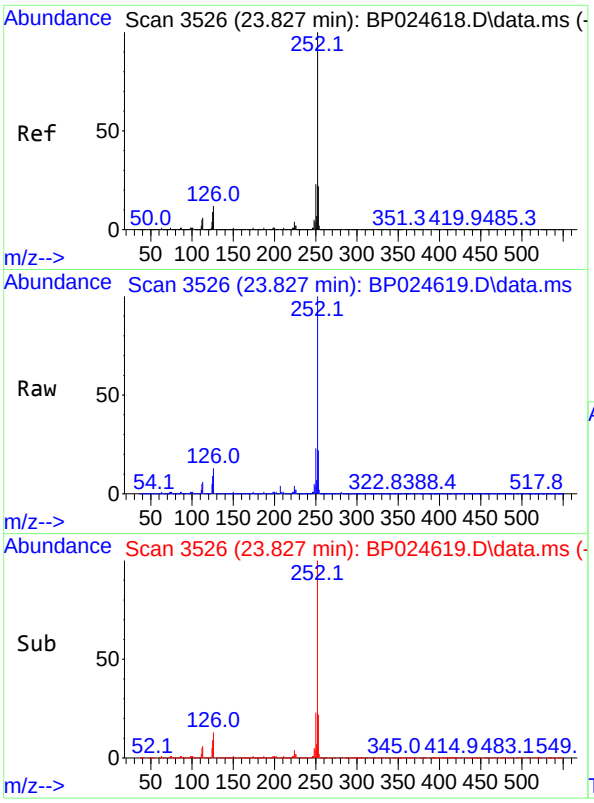


#88
Benzo(b)fluoranthene
Concen: 56.25 ng
RT: 23.763 min Scan# 3515
Delta R.T. 0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:252 Resp: 2612438

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	8.2	7.5	11.3



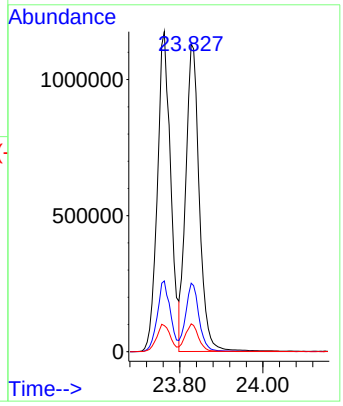


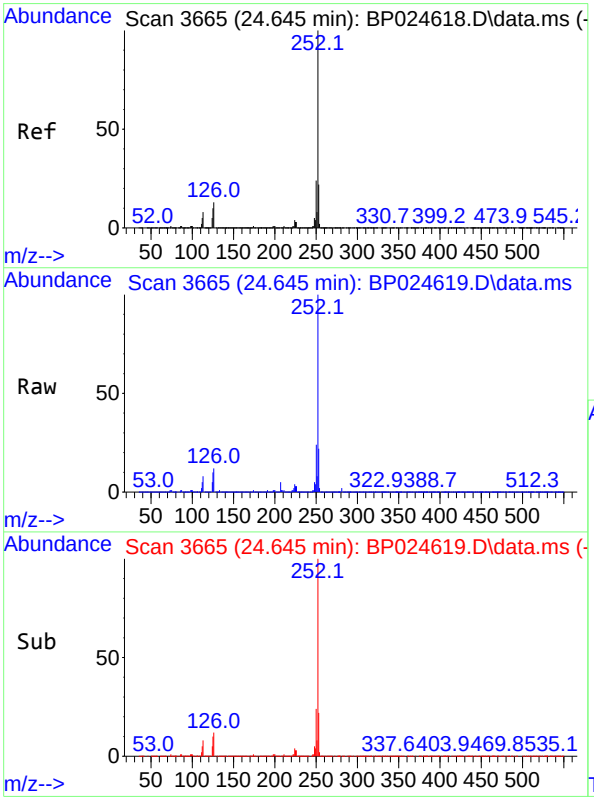
#89
Benzo(k)fluoranthene
Concen: 53.34 ng
RT: 23.827 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:252 Resp: 2552663

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.6	26.4
125	9.1	7.0	10.4

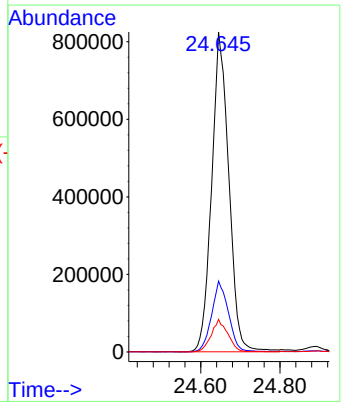


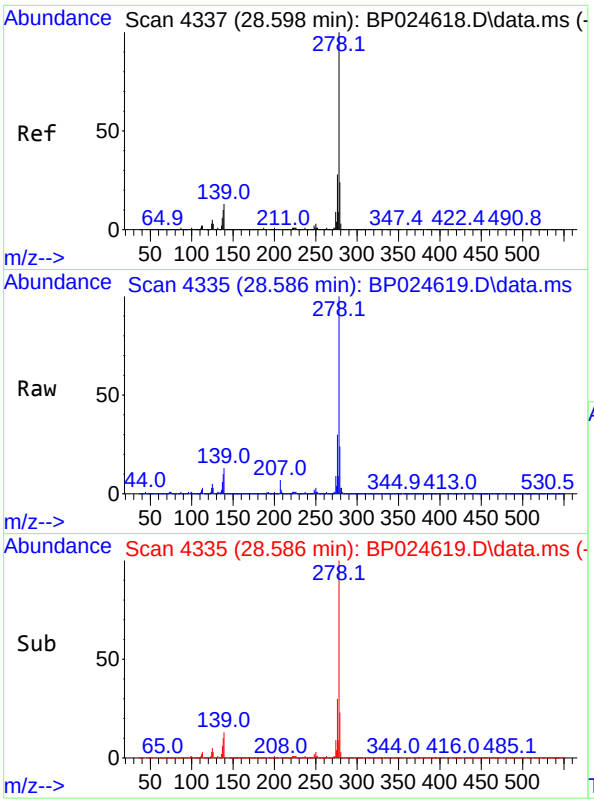


#90
Benzo(a)pyrene
Concen: 55.51 ng
RT: 24.645 min Scan# 3665
Delta R.T. 0.000 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:252 Resp: 2475976

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.2	8.1	12.1



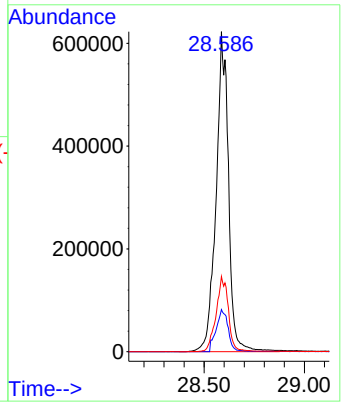


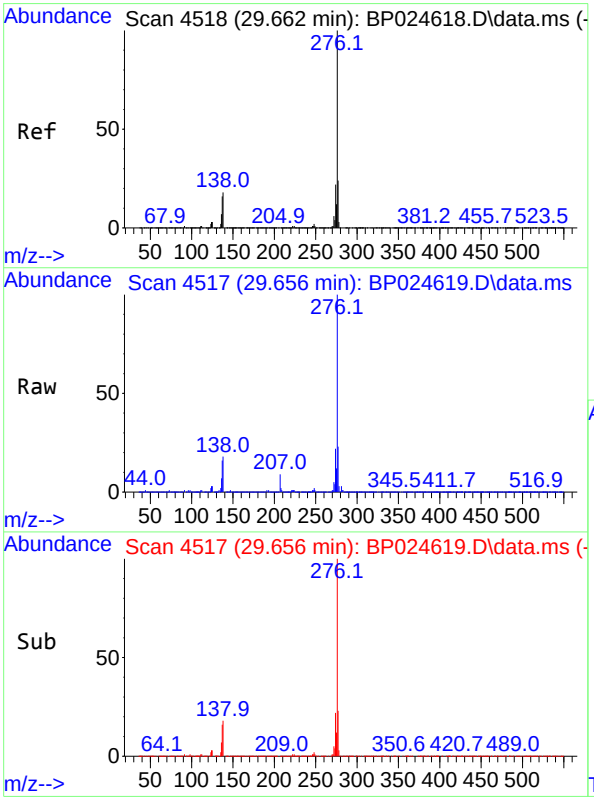
#91
Dibenzo(a,h)anthracene
Concen: 55.60 ng
RT: 28.586 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Instrument :
BNA_P
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 2679367

Ion	Ratio	Lower	Upper
278	100		
139	13.2	10.2	15.4
279	23.5	19.0	28.4

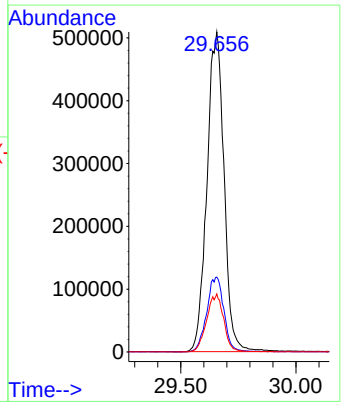




#92
Benzo(g,h,i)perylene
Concen: 54.79 ng
RT: 29.656 min Scan# 4517
Delta R.T. -0.006 min
Lab File: BP024619.D
Acq: 13 May 2025 14:05

Tgt Ion:276 Resp: 2625625

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.0	28.4
138	18.2	14.4	21.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024620.D
Acq On : 13 May 2025 14:45
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Quant Time: May 13 16:08:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.663	152	106955	20.00	ng		0.00
21) Naphthalene-d8	10.434	136	484921	20.00	ng		0.00
39) Acenaphthene-d10	14.292	164	325327	20.00	ng		-0.01
64) Phenanthrene-d10	17.086	188	646756	20.00	ng		-0.01
76) Chrysene-d12	21.521	240	726281	20.00	ng		0.00
86) Perylene-d12	24.810	264	822943	20.00	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.281	112	784577	125.47	ng		0.00
7) Phenol-d6	6.858	99	1039562	130.26	ng		0.00
23) Nitrobenzene-d5	8.816	82	1188192	123.80	ng		0.00
42) 2,4,6-Tribromophenol	15.816	330	696428	126.27	ng		0.00
45) 2-Fluorobiphenyl	12.910	172	2956939	119.08	ng		0.00
79) Terphenyl-d14	19.822	244	5119872	120.88	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.222	88	170174	57.95	ng		99
3) Pyridine	3.617	79	419426	64.42	ng		98
4) n-Nitrosodimethylamine	3.528	42	178836	62.22	ng		99
6) Aniline	7.005	93	670773	65.10	ng		100
8) 2-Chlorophenol	7.240	128	459952	64.79	ng		99
9) Benzaldehyde	6.816	77	305987	59.33	ng		98
10) Phenol	6.881	94	535743	65.04	ng		99
11) bis(2-Chloroethyl)ether	7.099	93	416957	61.60	ng		99
12) 1,3-Dichlorobenzene	7.552	146	496139	60.75	ng		99
13) 1,4-Dichlorobenzene	7.699	146	502743	61.20	ng		99
14) 1,2-Dichlorobenzene	8.010	146	490458	61.27	ng		99
15) Benzyl Alcohol	7.910	79	413146	68.12	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.181	45	501972	61.93	ng		98
17) 2-Methylphenol	8.110	107	389272	65.89	ng		98
18) Hexachloroethane	8.728	117	191530	60.85	ng		97
19) n-Nitroso-di-n-propyla...	8.463	70	363059	65.76	ng		99
20) 3+4-Methylphenols	8.434	107	543003	67.57	ng		99
22) Acetophenone	8.481	105	744359	61.45	ng	#	98
24) Nitrobenzene	8.857	77	518098	61.34	ng		97
25) Isophorone	9.381	82	1048461	62.98	ng		99
26) 2-Nitrophenol	9.557	139	278764	67.36	ng		99
27) 2,4-Dimethylphenol	9.622	122	462148	63.34	ng		100
28) bis(2-Chloroethoxy)met...	9.851	93	610221	61.35	ng		99
29) 2,4-Dichlorophenol	10.093	162	459806	65.03	ng		98
30) 1,2,4-Trichlorobenzene	10.299	180	478505	60.05	ng		97
31) Naphthalene	10.487	128	1508460	60.03	ng		100
32) Benzoic acid	9.799	122	319375	60.53	ng		99
33) 4-Chloroaniline	10.599	127	671888	66.26	ng		99
34) Hexachlorobutadiene	10.769	225	303458	58.79	ng		98
35) Caprolactam	11.404	113	175653	68.70	ng		97
36) 4-Chloro-3-methylphenol	11.740	107	559138	64.84	ng		100
37) 2-Methylnaphthalene	12.098	142	1008171	61.96	ng		99
38) 1-Methylnaphthalene	12.316	142	1066290	61.25	ng		99
40) 1,2,4,5-Tetrachloroben...	12.469	216	566530	59.97	ng		100
41) Hexachlorocyclopentadiene	12.445	237	381621	66.62	ng		97
43) 2,4,6-Trichlorophenol	12.716	196	400552	65.46	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024620.D
Acq On : 13 May 2025 14:45
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Quant Time: May 13 16:08:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

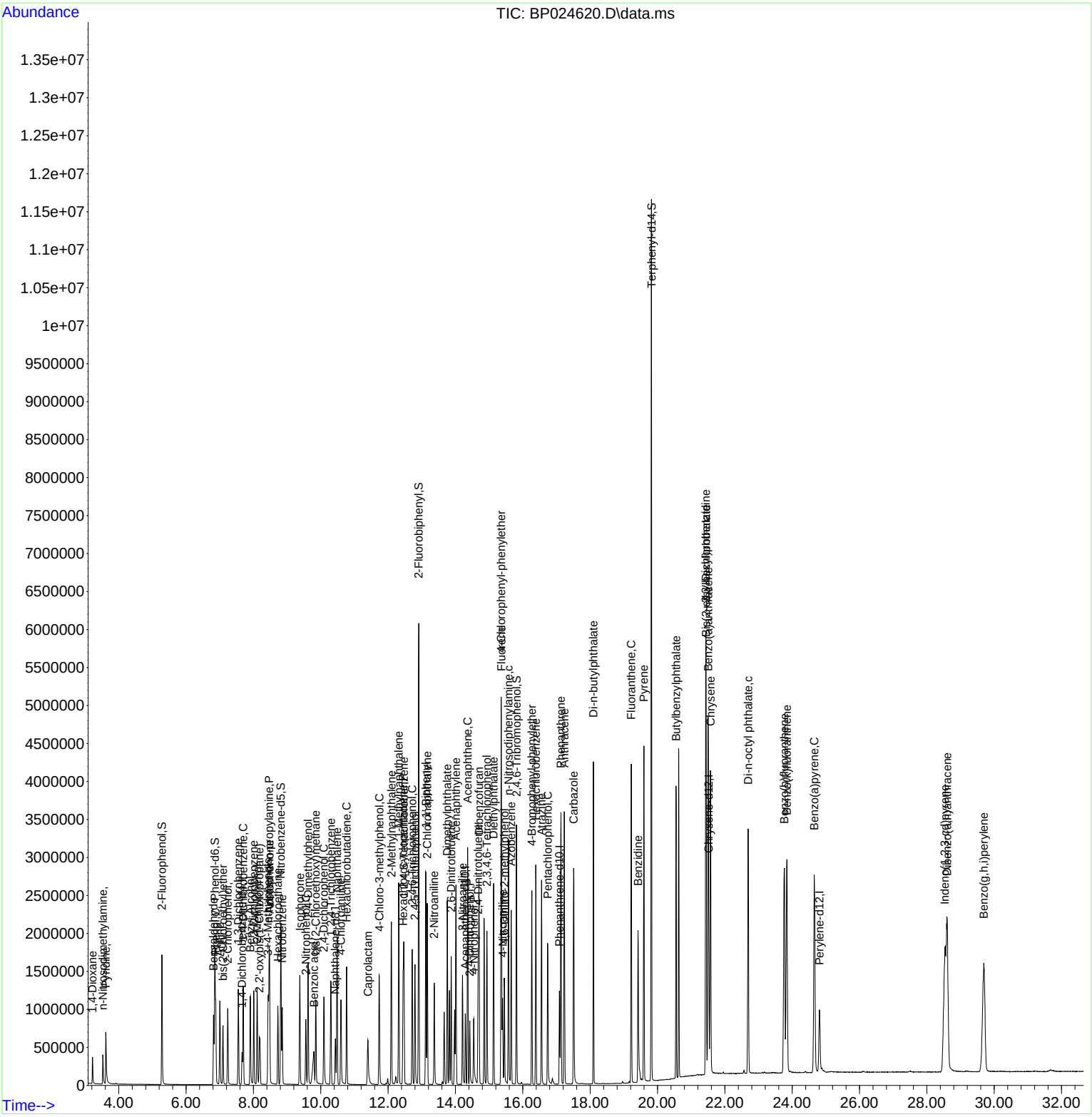
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	436361	64.06	ng		99
46) 1,1'-Biphenyl	13.122	154	1437786	59.80	ng		100
47) 2-Chloronaphthalene	13.163	162	1105298	60.29	ng		100
48) 2-Nitroaniline	13.369	65	354977	65.40	ng		98
49) Acenaphthylene	14.016	152	1884018	61.41	ng		100
50) Dimethylphthalate	13.757	163	1498318	60.42	ng		100
51) 2,6-Dinitrotoluene	13.875	165	328682	62.76	ng		99
52) Acenaphthene	14.363	154	1072483	60.80	ng		100
53) 3-Nitroaniline	14.210	138	361174	67.54	ng		99
54) 2,4-Dinitrophenol	14.428	184	196350	61.10	ng		96
55) Dibenzofuran	14.698	168	1691790	60.13	ng		99
56) 4-Nitrophenol	14.545	139	281293	61.78	ng		98
57) 2,4-Dinitrotoluene	14.675	165	471525	63.87	ng		99
58) Fluorene	15.363	166	1376412	60.00	ng		99
59) 2,3,4,6-Tetrachlorophenol	14.934	232	396678	62.78	ng		99
60) Diethylphthalate	15.134	149	1525628	60.87	ng		99
61) 4-Chlorophenyl-phenyle...	15.357	204	692230	60.51	ng		99
62) 4-Nitroaniline	15.404	138	354287	68.05	ng		99
63) Azobenzene	15.657	77	1310800	61.14	ng		97
65) 4,6-Dinitro-2-methylph...	15.457	198	278024	66.55	ng		95
66) n-Nitrosodiphenylamine	15.575	169	1205525	60.68	ng		100
67) 4-Bromophenyl-phenylether	16.269	248	469127	61.56	ng		99
68) Hexachlorobenzene	16.386	284	590615	60.99	ng		99
69) Atrazine	16.557	200	460742	63.29	ng		98
70) Pentachlorophenol	16.739	266	371465	68.29	ng		99
71) Phenanthrene	17.133	178	2183329	60.73	ng		100
72) Anthracene	17.233	178	2210412	61.11	ng		99
73) Carbazole	17.510	167	2042777	62.39	ng		100
74) Di-n-butylphthalate	18.098	149	2644959	62.81	ng		99
75) Fluoranthene	19.222	202	2594532	61.73	ng		100
77) Benzidine	19.422	184	1304259	65.42	ng		99
78) Pyrene	19.598	202	2661811	61.17	ng		100
80) Butylbenzylphthalate	20.551	149	1243403	64.25	ng		100
81) Benzo(a)anthracene	21.504	228	2778689	60.93	ng		99
82) 3,3'-Dichlorobenzidine	21.433	252	1114122	65.77	ng		100
83) Chrysene	21.574	228	2588513	59.88	ng		100
84) Bis(2-ethylhexyl)phtha...	21.445	149	1822019	64.05	ng		99
85) Di-n-octyl phthalate	22.692	149	2998832	64.47	ng		100
87) Indeno(1,2,3-cd)pyrene	28.533	276	3824922	63.64	ng	#	92
88) Benzo(b)fluoranthene	23.768	252	2922103	62.04	ng		99
89) Benzo(k)fluoranthene	23.845	252	3055252	62.95	ng		100
90) Benzo(a)pyrene	24.657	252	2881508	63.69	ng		100
91) Dibenzo(a,h)anthracene	28.603	278	3137905	64.20	ng		99
92) Benzo(g,h,i)perylene	29.692	276	3065416	63.07	ng		100

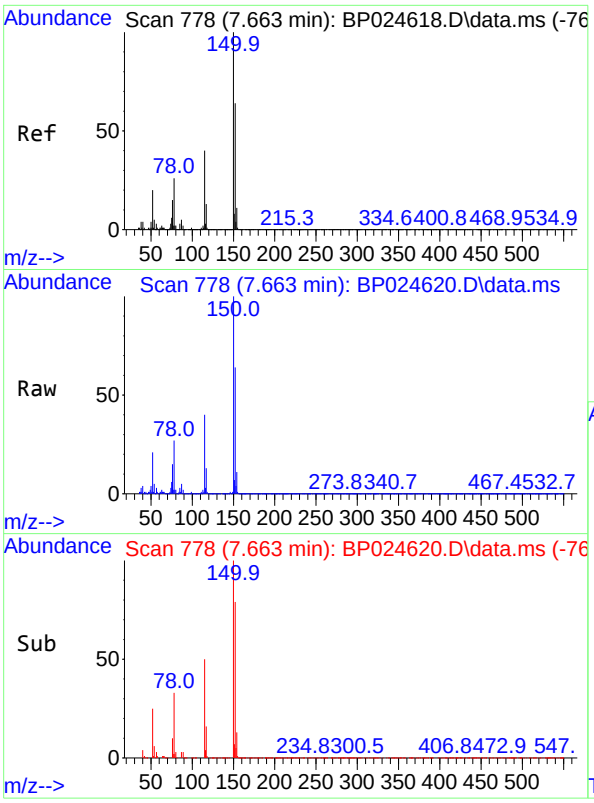
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024620.D
Acq On : 13 May 2025 14:45
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Quant Time: May 13 16:08:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration



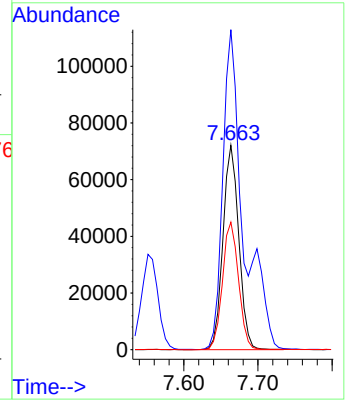


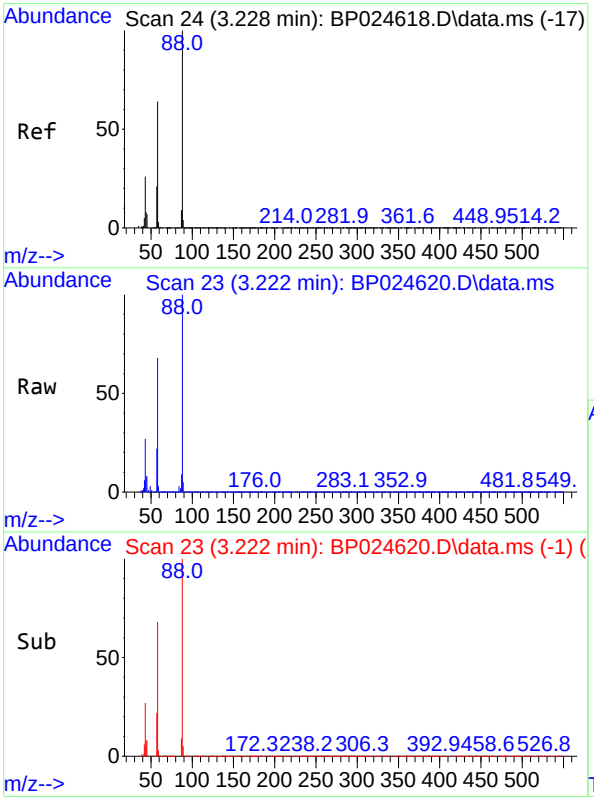
#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.663 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 106955

Ion	Ratio	Lower	Upper
152	100		
150	156.6	125.9	188.9
115	62.4	50.1	75.1

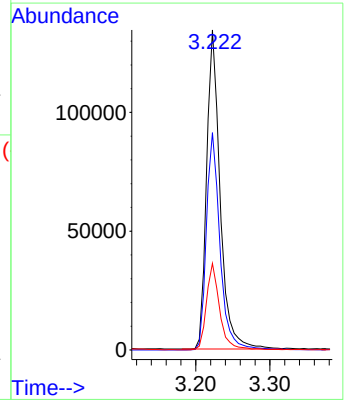


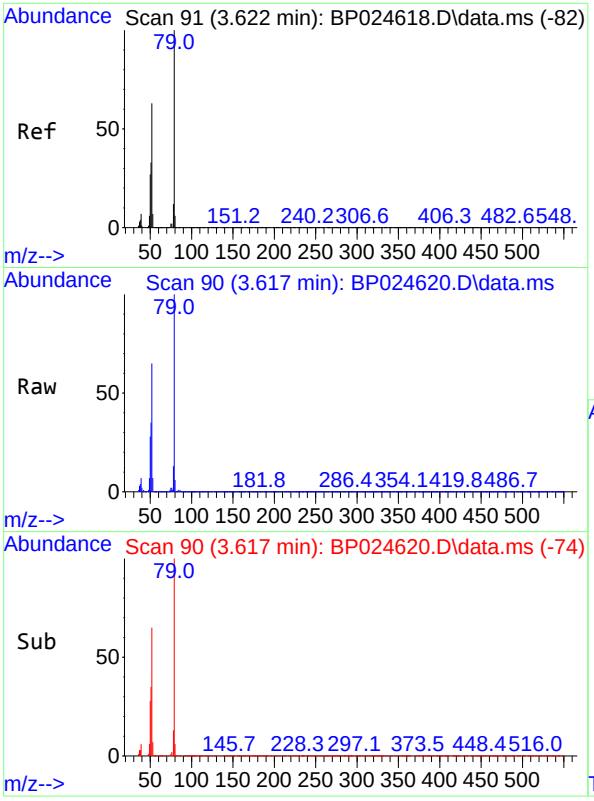


#2
1,4-Dioxane
Concen: 57.95 ng
RT: 3.222 min Scan# 23
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion: 88 Resp: 170174

Ion	Ratio	Lower	Upper
88	100		
58	68.9	54.0	81.0
43	26.5	21.4	32.0



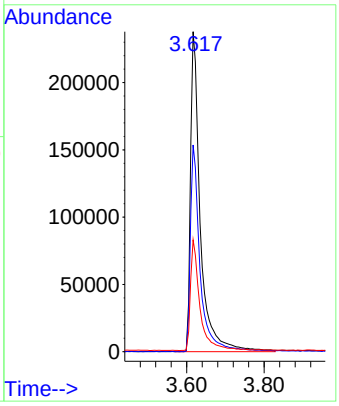


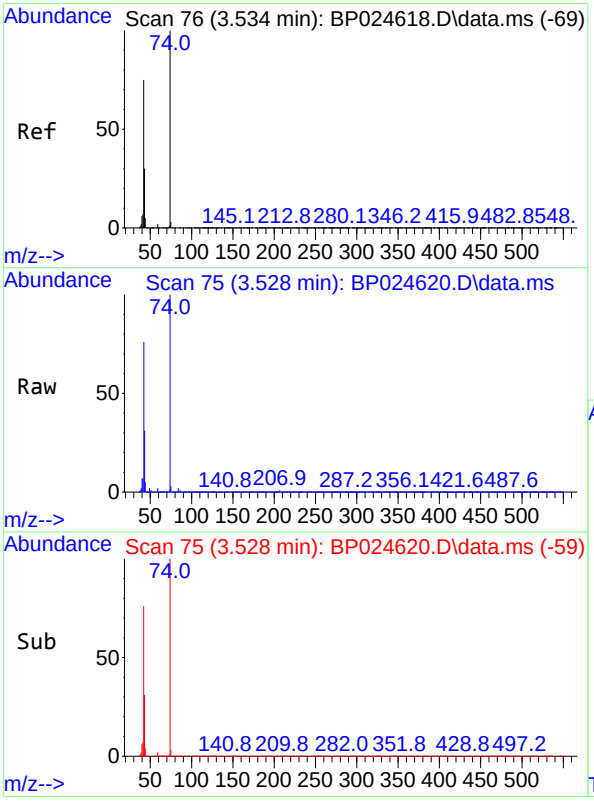
#3
Pyridine
Concen: 64.42 ng
RT: 3.617 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 419426

Ion	Ratio	Lower	Upper
79	100		
52	64.6	50.2	75.2
51	34.9	26.8	40.2

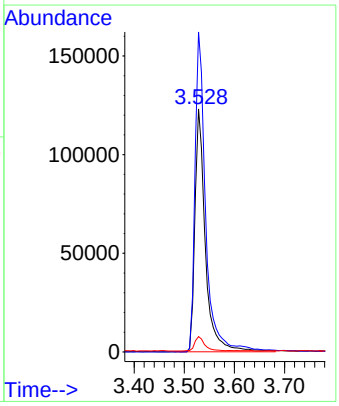


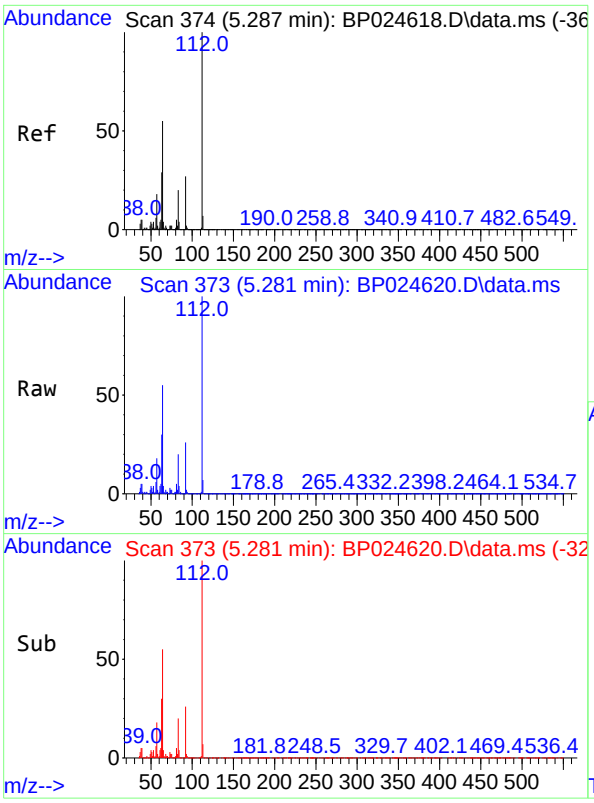


#4
n-Nitrosodimethylamine
Concen: 62.22 ng
RT: 3.528 min Scan# 75
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion: 42 Resp: 178836

Ion	Ratio	Lower	Upper
42	100		
74	131.7	106.2	159.2
44	6.3	5.4	8.2



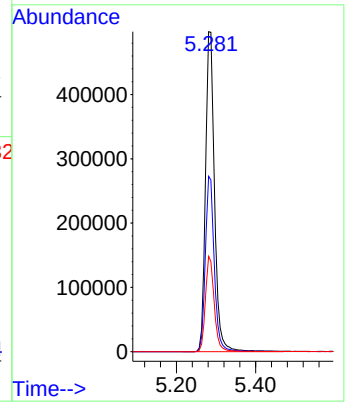


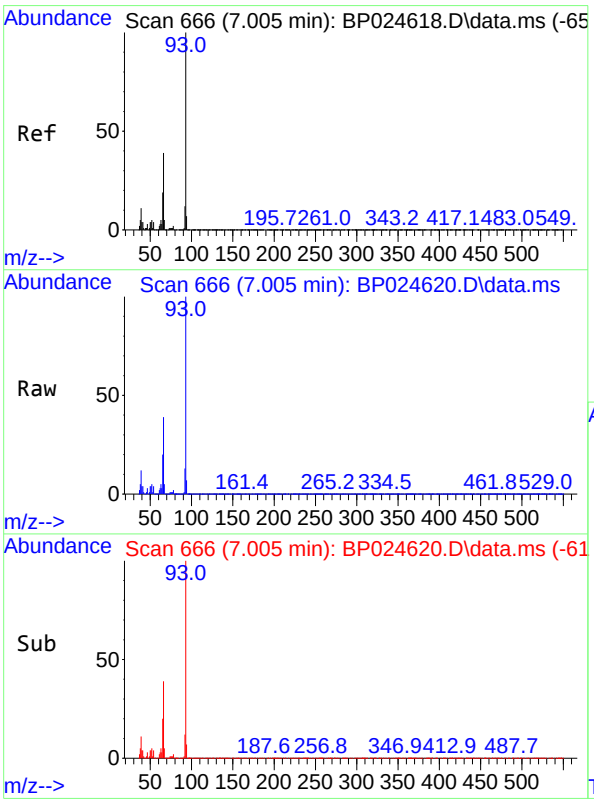
#5
2-Fluorophenol
Concen: 125.47 ng
RT: 5.281 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:112 Resp: 784577

Ion	Ratio	Lower	Upper
112	100		
64	54.8	44.1	66.1
63	29.8	23.5	35.3

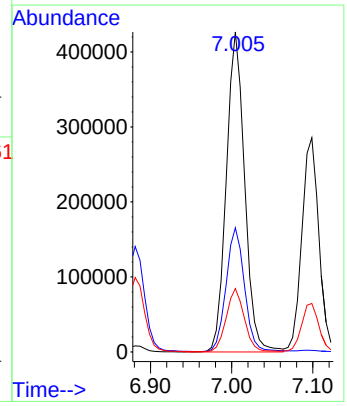


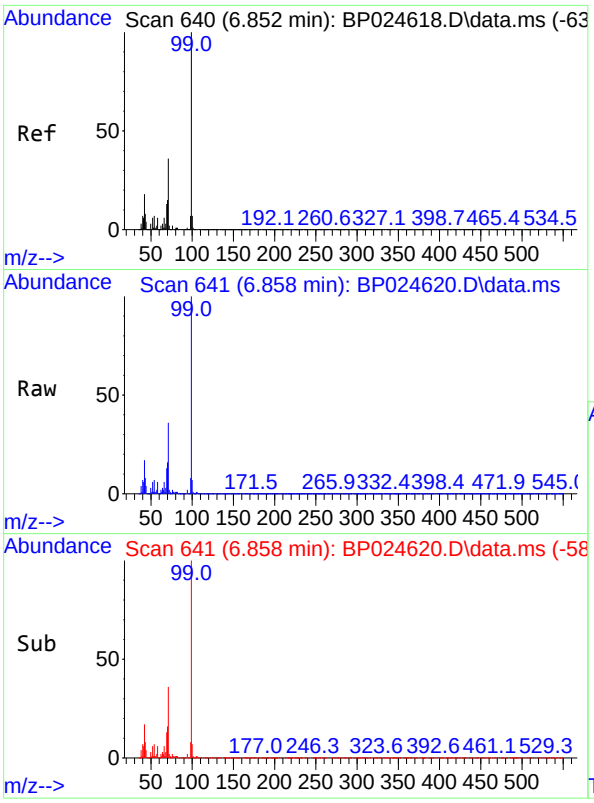


#6
Aniline
Concen: 65.10 ng
RT: 7.005 min Scan# 666
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion: 93 Resp: 670773

Ion	Ratio	Lower	Upper
93	100		
66	38.8	31.0	46.6
65	19.8	15.5	23.3



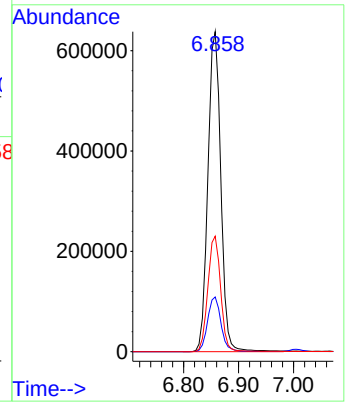


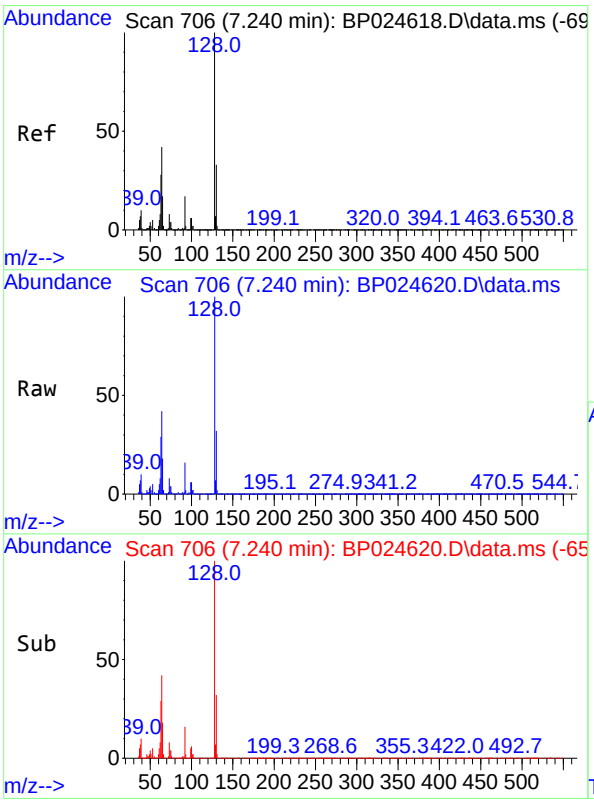
#7
Phenol-d6
Concen: 130.26 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 99 Resp: 1039562

Ion	Ratio	Lower	Upper
99	100		
42	17.1	14.4	21.6
71	36.1	29.2	43.8

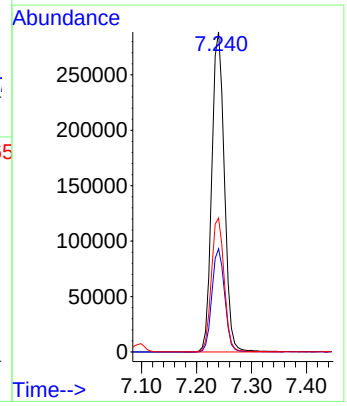


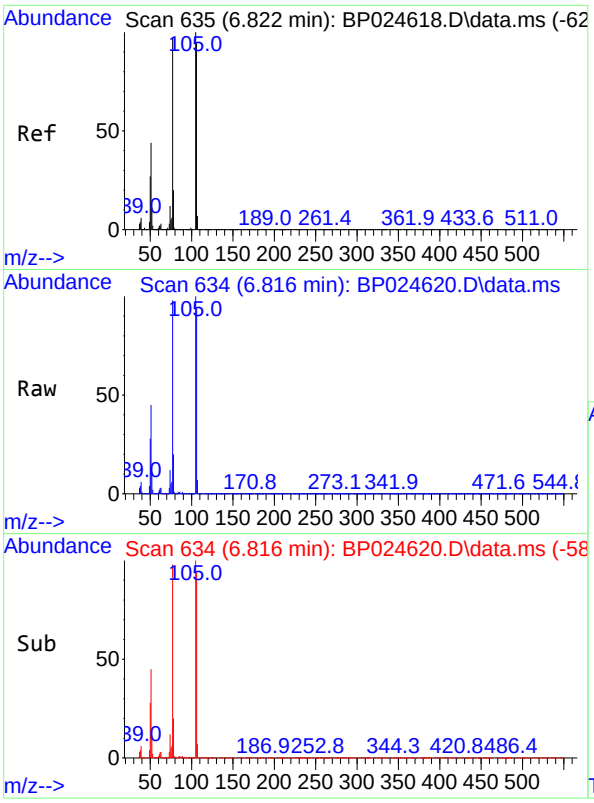


#8
2-Chlorophenol
Concen: 64.79 ng
RT: 7.240 min Scan# 706
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:128 Resp: 459952

Ion	Ratio	Lower	Upper
128	100		
130	32.3	13.0	53.0
64	41.9	22.3	62.3



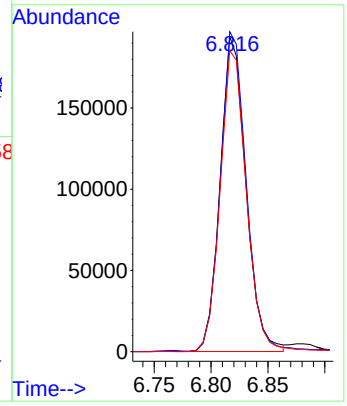


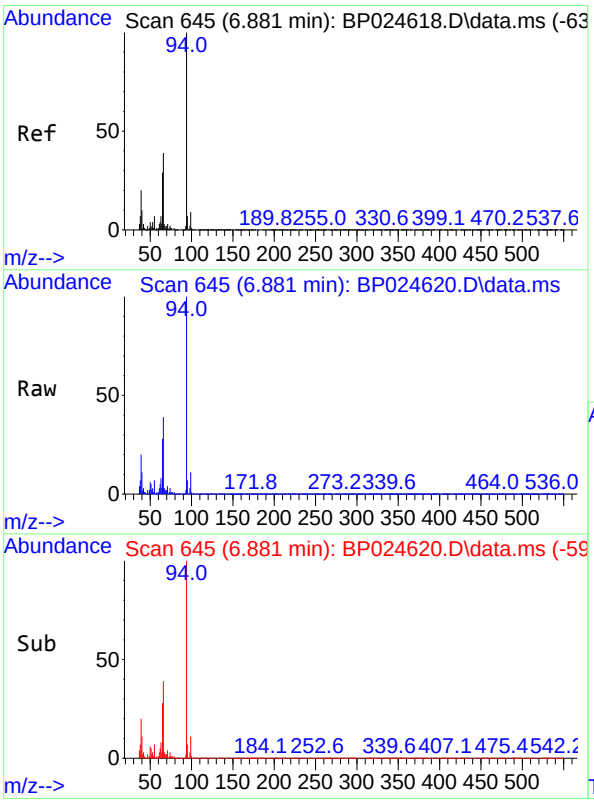
#9
Benzaldehyde
Concen: 59.33 ng
RT: 6.816 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 305987

Ion	Ratio	Lower	Upper
77	100		
105	101.6	83.3	123.3
106	95.5	78.0	118.0

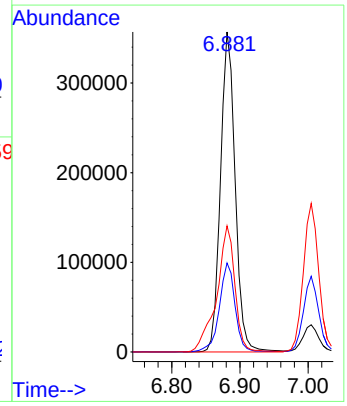


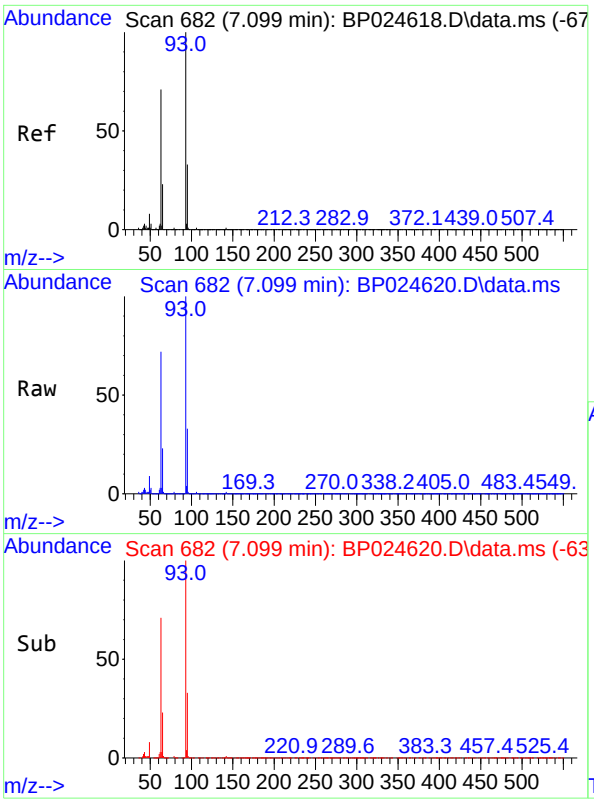


#10
Phenol
Concen: 65.04 ng
RT: 6.881 min Scan# 645
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion: 94 Resp: 535743

Ion	Ratio	Lower	Upper
94	100		
65	27.8	8.7	48.7
66	39.4	19.4	59.4



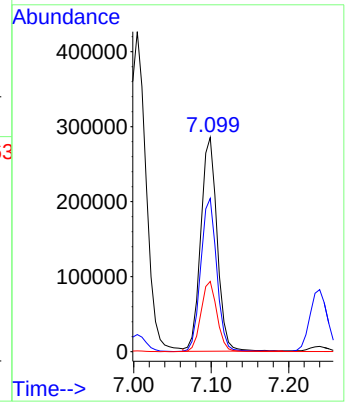


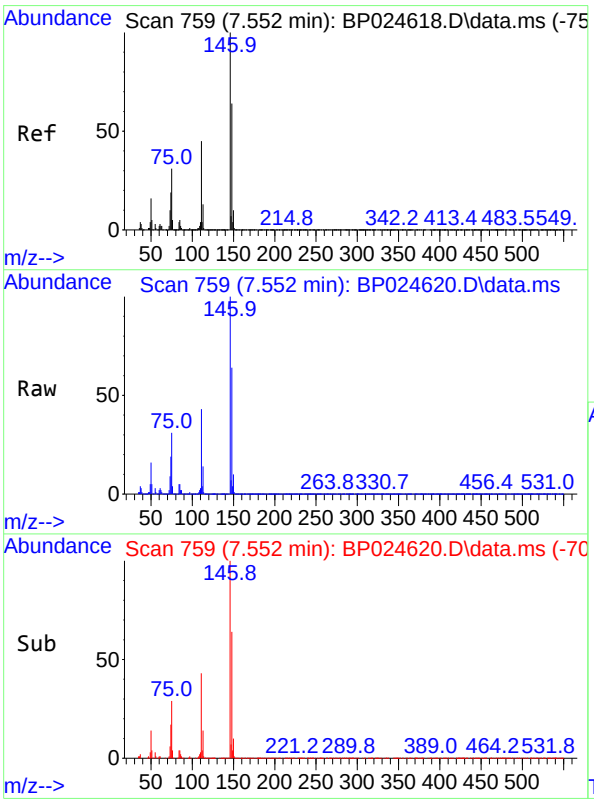
#11
bis(2-Chloroethyl)ether
Concen: 61.60 ng
RT: 7.099 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 93 Resp: 416957

Ion	Ratio	Lower	Upper
93	100		
63	71.6	50.6	90.6
95	32.8	12.9	52.9

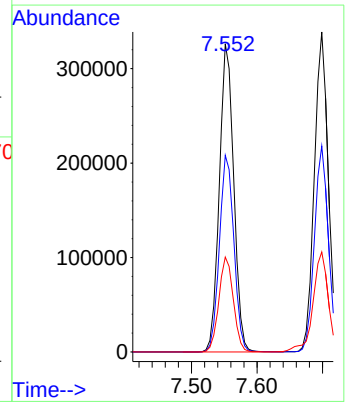


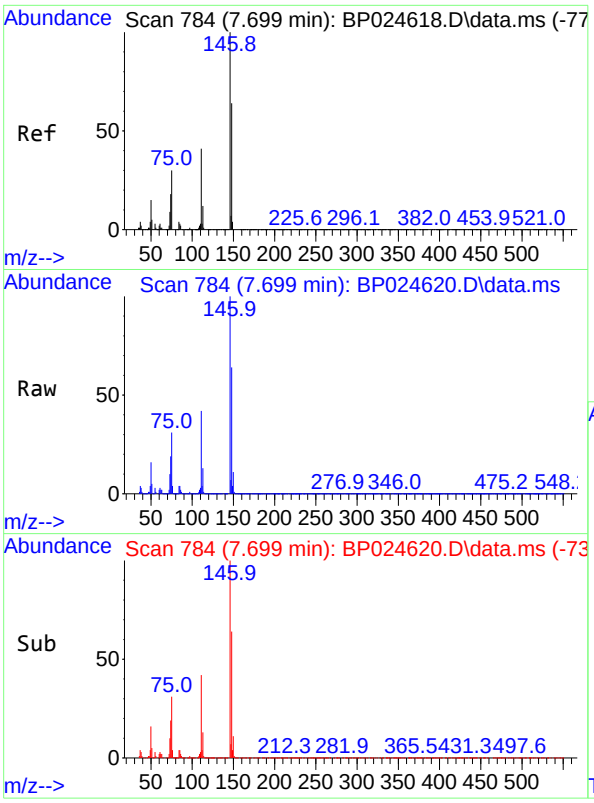


#12
1,3-Dichlorobenzene
Concen: 60.75 ng
RT: 7.552 min Scan# 759
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:146 Resp: 496139

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.4	77.2
75	30.8	25.2	37.8



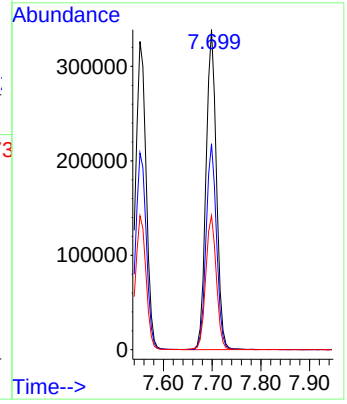


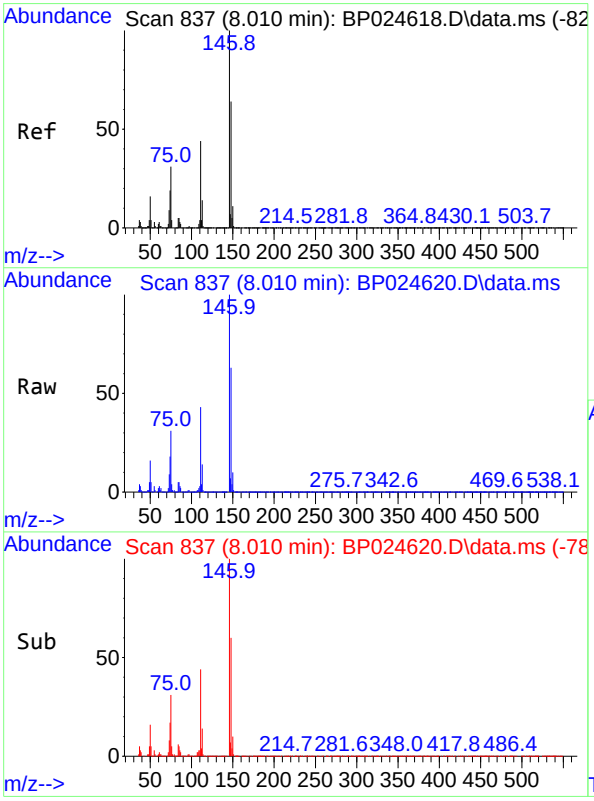
#13
1,4-Dichlorobenzene
Concen: 61.20 ng
RT: 7.699 min Scan# 7
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:146 Resp: 502743

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.0	76.6
111	41.9	33.0	49.6

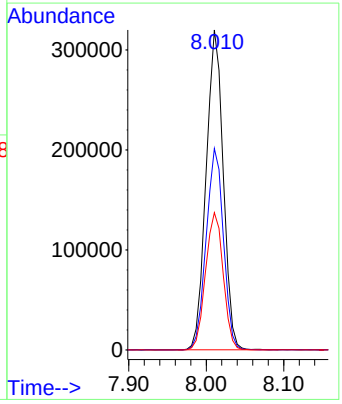


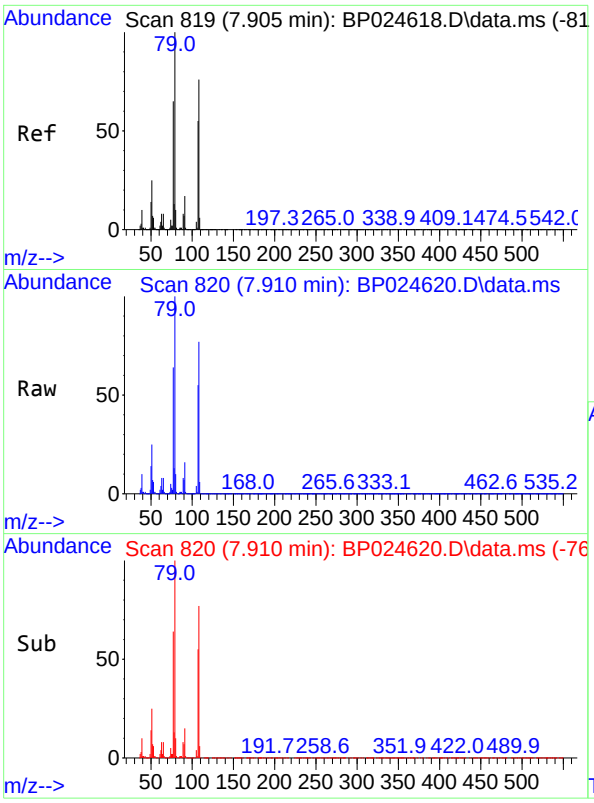


#14
1,2-Dichlorobenzene
Concen: 61.27 ng
RT: 8.010 min Scan# 837
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:146 Resp: 490458

Ion	Ratio	Lower	Upper
146	100		
148	62.9	51.0	76.4
111	42.9	35.2	52.8



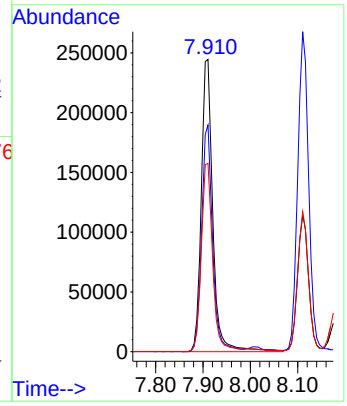


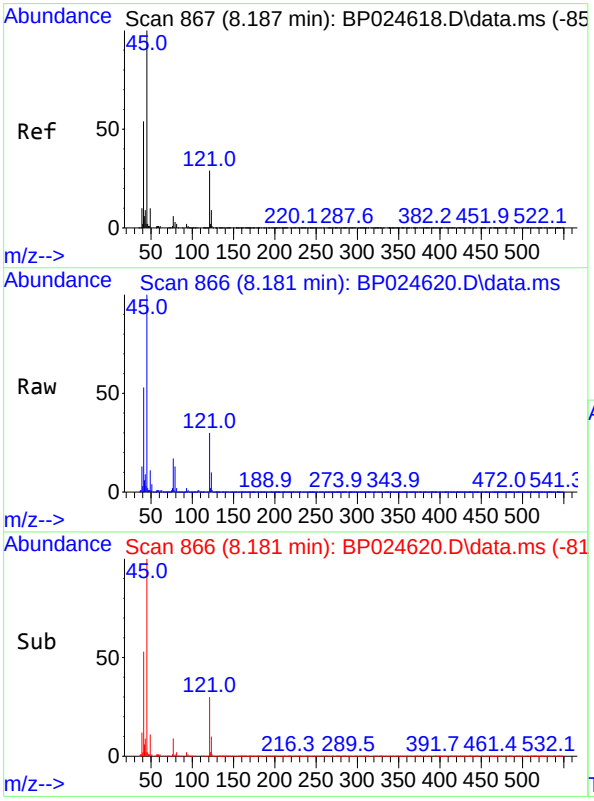
#15
Benzyl Alcohol
Concen: 68.12 ng
RT: 7.910 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 79 Resp: 413146

Ion	Ratio	Lower	Upper
79	100		
108	77.5	60.8	91.2
77	64.4	51.9	77.9

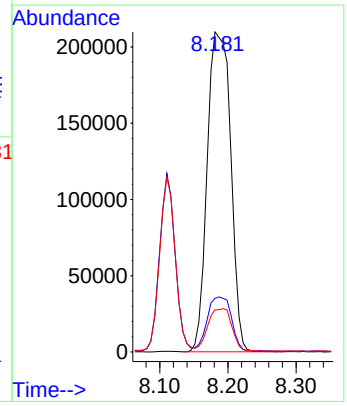


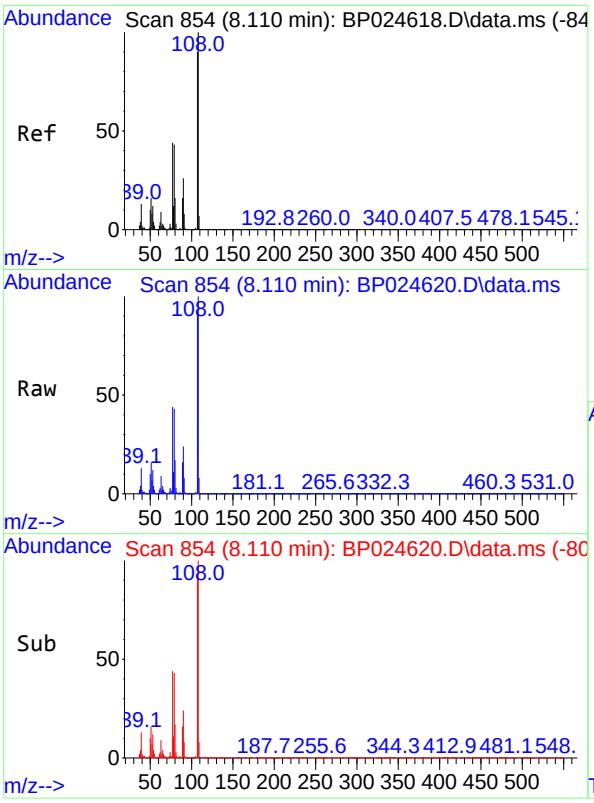


#16
2,2'-oxybis(1-Chloropropane)
Concen: 61.93 ng
RT: 8.181 min Scan# 866
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion: 45 Resp: 501972

Ion	Ratio	Lower	Upper
45	100		
77	16.7	0.0	37.7
79	13.1	0.0	34.0



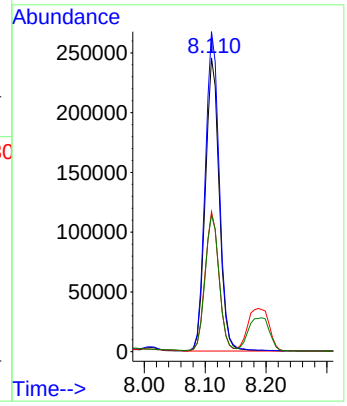


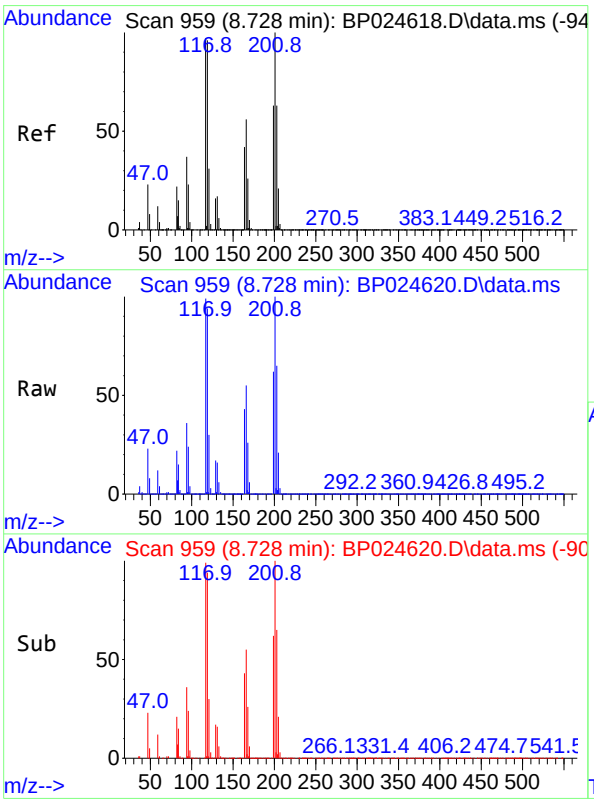
#17
2-Methylphenol
Concen: 65.89 ng
RT: 8.110 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:107 Resp: 389272

Ion	Ratio	Lower	Upper
107	100		
108	109.0	88.9	133.3
77	47.6	39.0	58.6
79	46.6	38.4	57.6

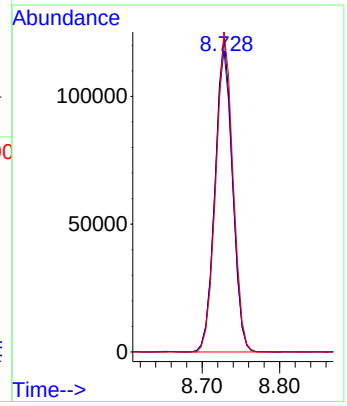


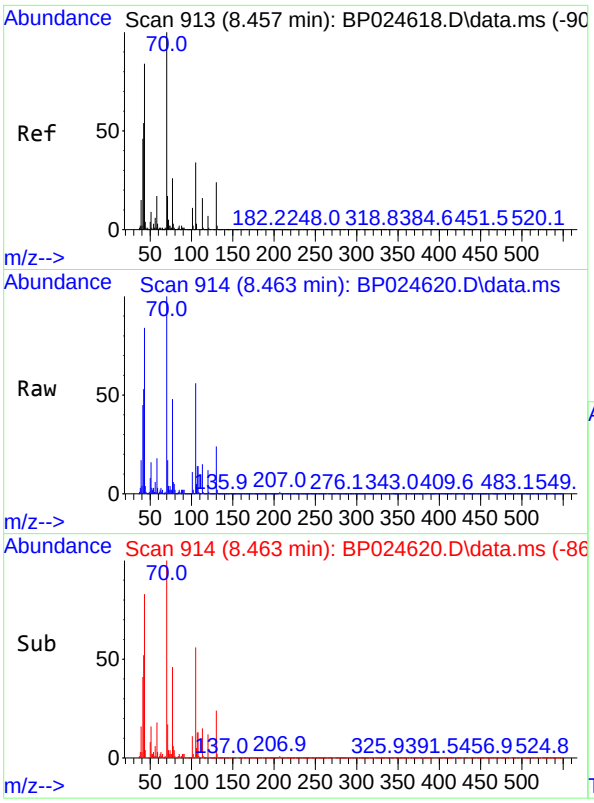


#18
Hexachloroethane
Concen: 60.85 ng
RT: 8.728 min Scan# 959
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:117 Resp: 191530

Ion	Ratio	Lower	Upper
117	100		
119	95.3	79.4	119.0
201	101.2	82.7	124.1



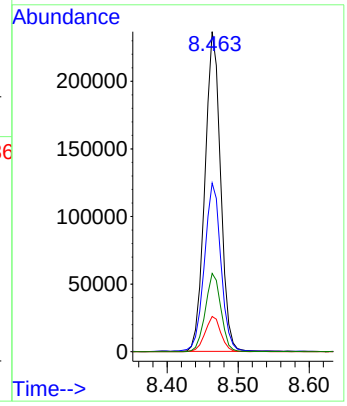


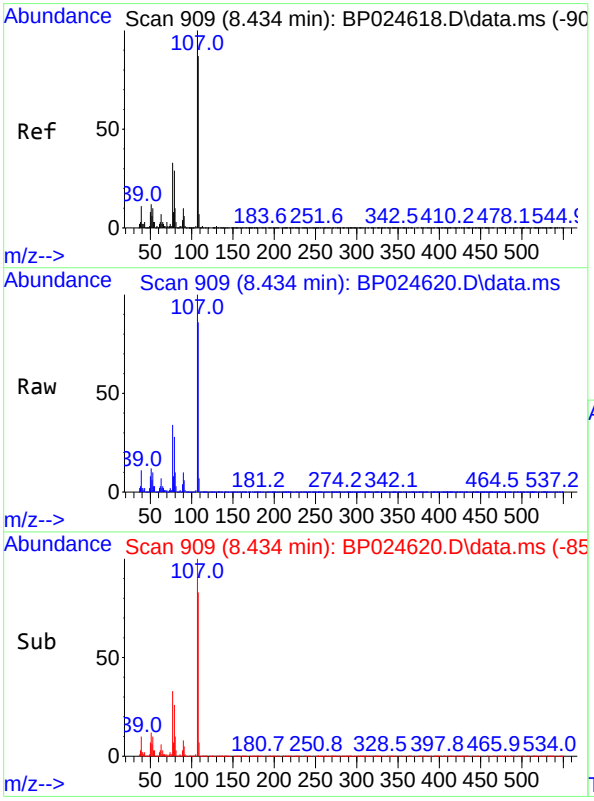
#19
n-Nitroso-di-n-propylamine
Concen: 65.76 ng
RT: 8.463 min Scan# 91
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 70 Resp: 363059

Ion	Ratio	Lower	Upper
70	100		
42	52.7	43.0	64.6
101	11.0	8.7	13.1
130	24.4	19.4	29.0

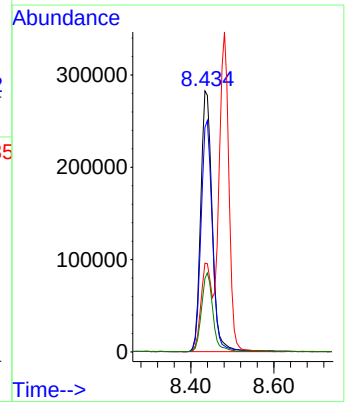


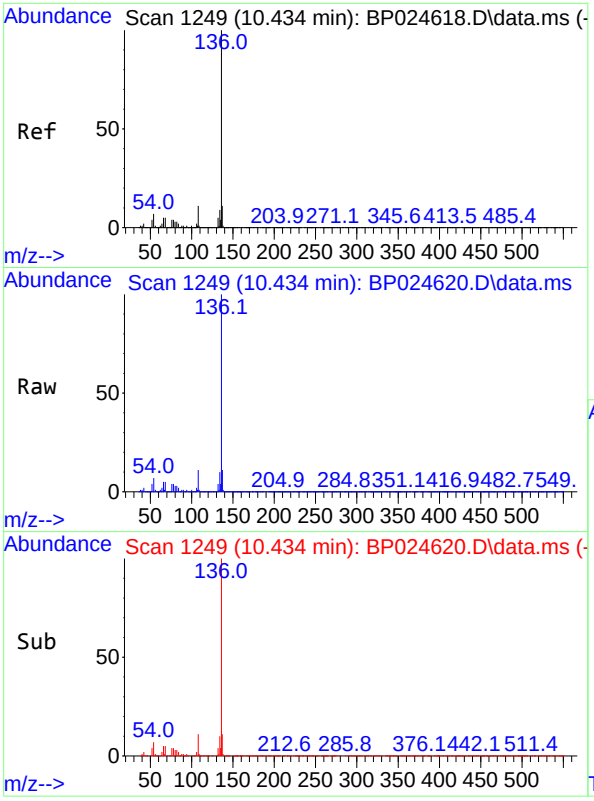


#20
3+4-Methylphenols
Concen: 67.57 ng
RT: 8.434 min Scan# 909
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:107 Resp: 543003

Ion	Ratio	Lower	Upper
107	100		
108	86.0	66.7	106.7
77	34.0	13.1	53.1
79	28.2	8.9	48.9



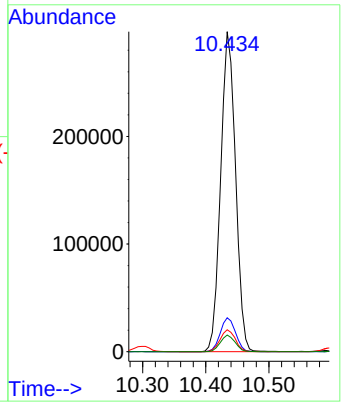


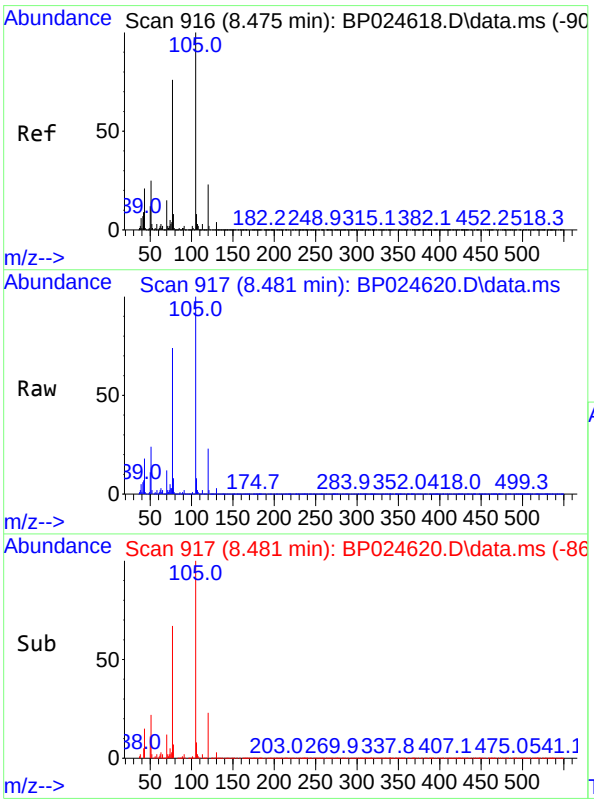
#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:136 Resp: 484921

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	6.8	5.5	8.3
68	5.2	4.2	6.2

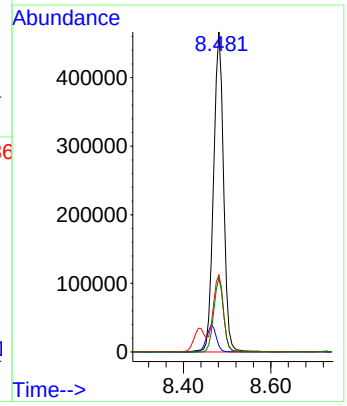


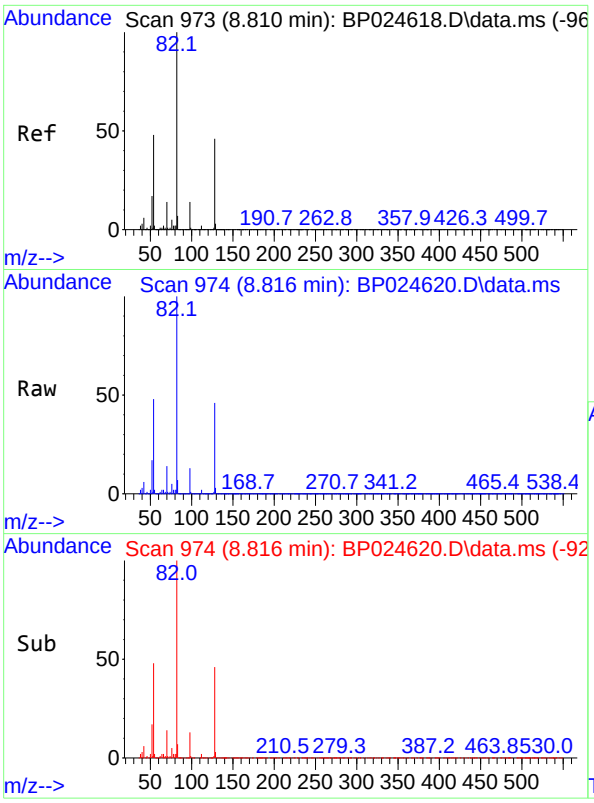


#22
Acetophenone
Concen: 61.45 ng
RT: 8.481 min Scan# 917
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:105 Resp: 744359

Ion	Ratio	Lower	Upper
105	100		
71	1.9	2.0	3.0#
51	24.1	20.4	30.6
120	23.0	18.1	27.1



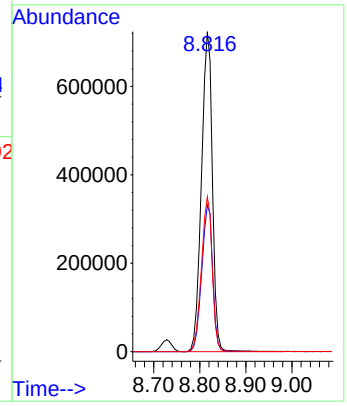


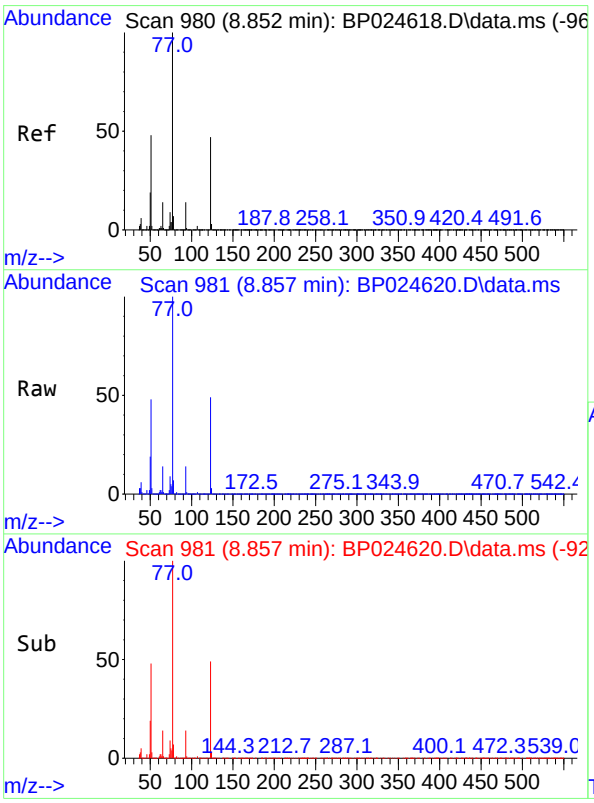
#23
Nitrobenzene-d5
Concen: 123.80 ng
RT: 8.816 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 1188192

Ion	Ratio	Lower	Upper
82	100		
128	45.8	37.0	55.4
54	48.4	38.7	58.1

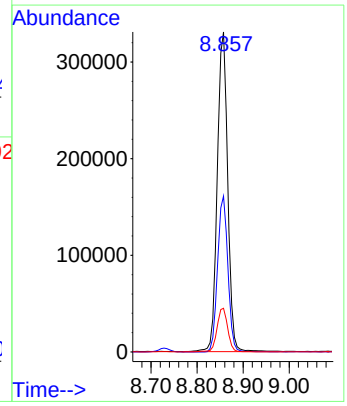


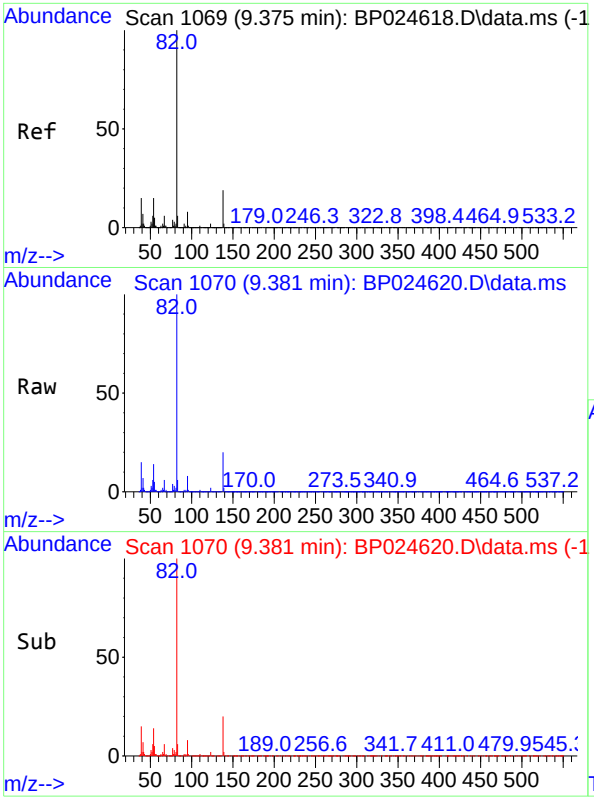


#24
Nitrobenzene
Concen: 61.34 ng
RT: 8.857 min Scan# 981
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion: 77 Resp: 518098

Ion	Ratio	Lower	Upper
77	100		
123	48.7	37.4	56.0
65	13.7	11.3	16.9



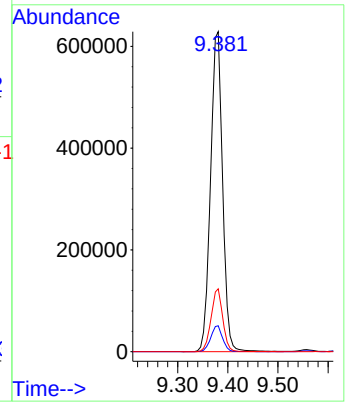


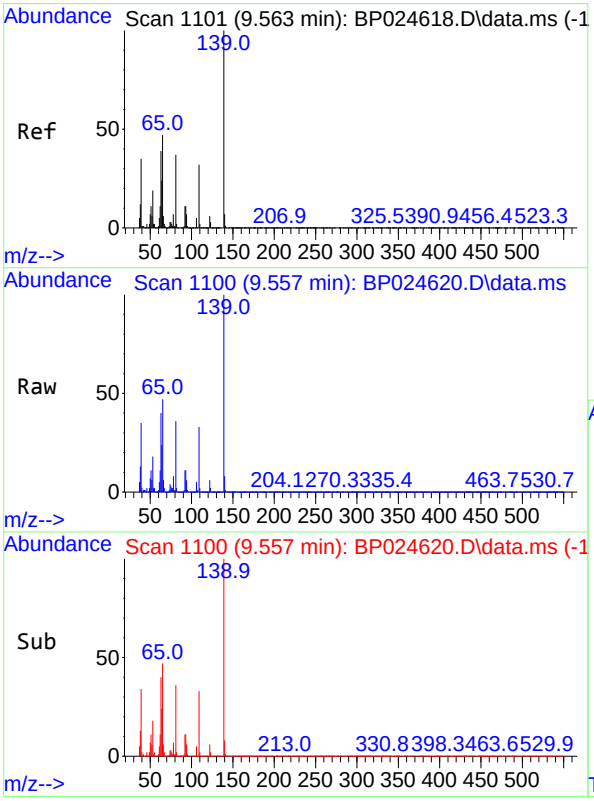
#25
Isophorone
Concen: 62.98 ng
RT: 9.381 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 82 Resp: 1048461

Ion	Ratio	Lower	Upper
82	100		
95	8.1	6.3	9.5
138	19.7	15.3	22.9

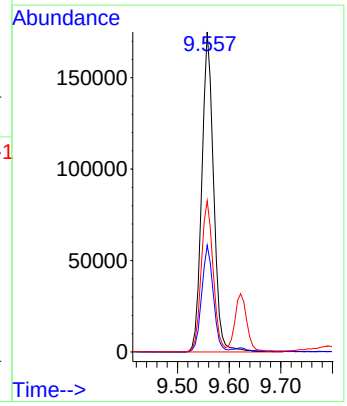


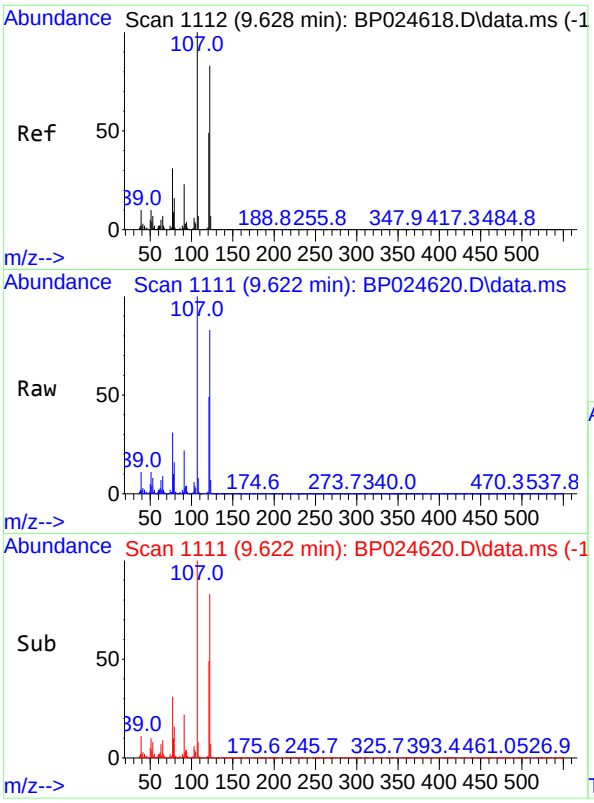


#26
2-Nitrophenol
Concen: 67.36 ng
RT: 9.557 min Scan# 1100
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:139 Resp: 278764

Ion	Ratio	Lower	Upper
139	100		
109	33.4	25.9	38.9
65	47.3	37.9	56.9



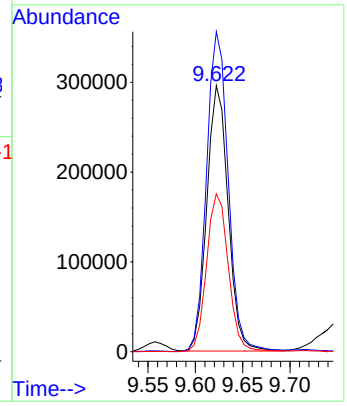


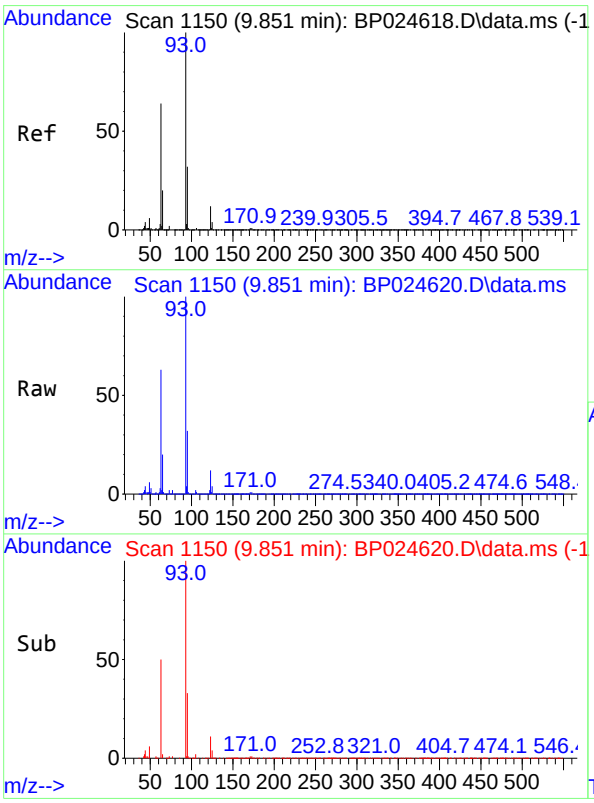
#27
2,4-Dimethylphenol
Concen: 63.34 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:122 Resp: 462148

Ion	Ratio	Lower	Upper
122	100		
107	120.2	96.2	144.2
121	59.3	47.6	71.4

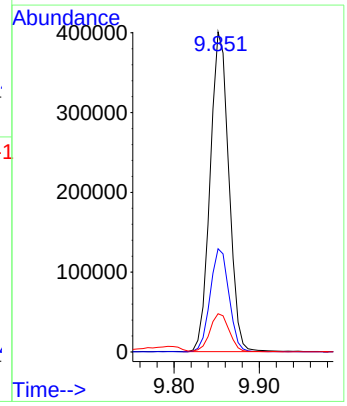


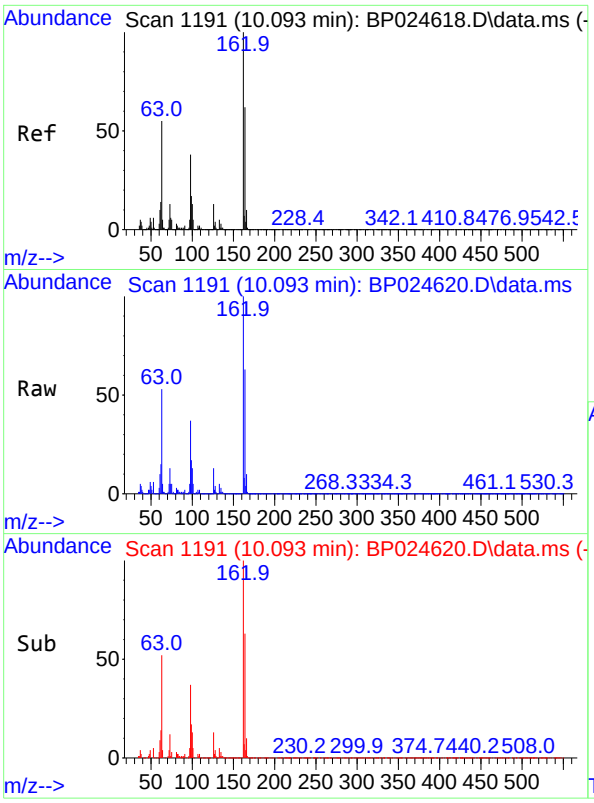


#28
bis(2-Chloroethoxy)methane
Concen: 61.35 ng
RT: 9.851 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion: 93 Resp: 610221

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.5	38.3
123	11.9	9.7	14.5



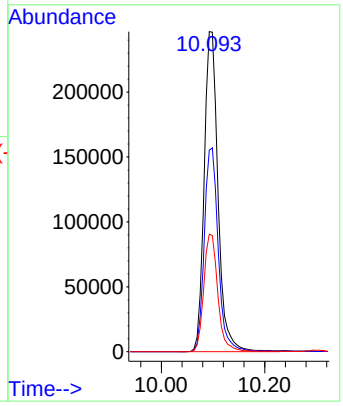


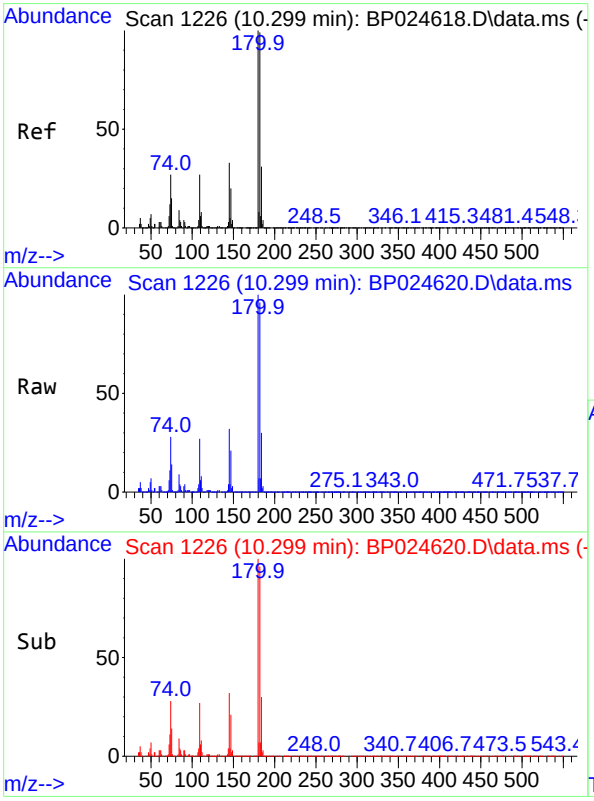
#29
2,4-Dichlorophenol
Concen: 65.03 ng
RT: 10.093 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 459806

Ion	Ratio	Lower	Upper
162	100		
164	62.9	42.3	82.3
98	36.7	18.4	58.4

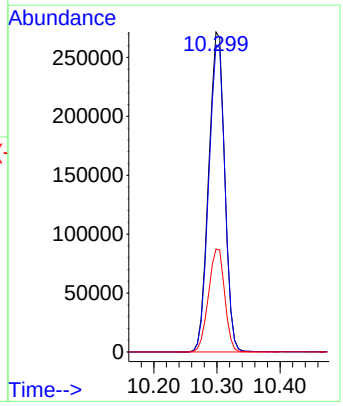


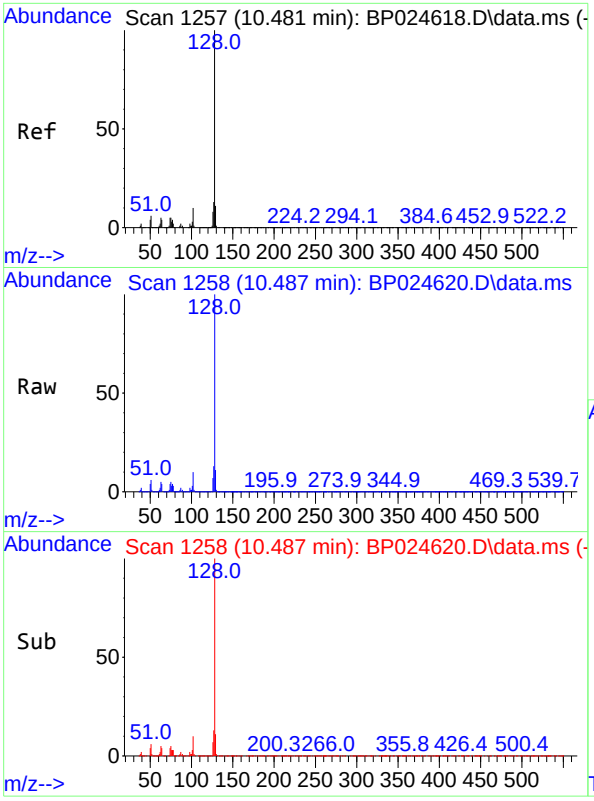


#30
1,2,4-Trichlorobenzene
Concen: 60.05 ng
RT: 10.299 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:180 Resp: 478505

Ion	Ratio	Lower	Upper
180	100		
182	95.9	79.0	118.4
145	32.2	26.6	39.8



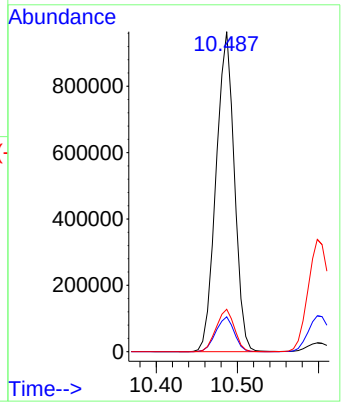


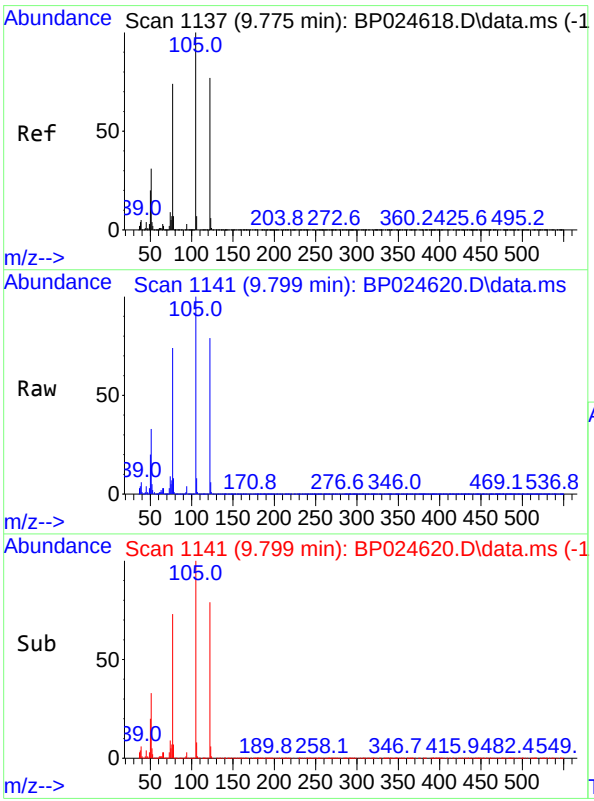
#31
Naphthalene
Concen: 60.03 ng
RT: 10.487 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:128 Resp: 1508460

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.3	10.7	16.1

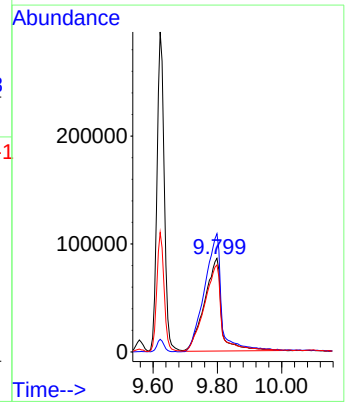


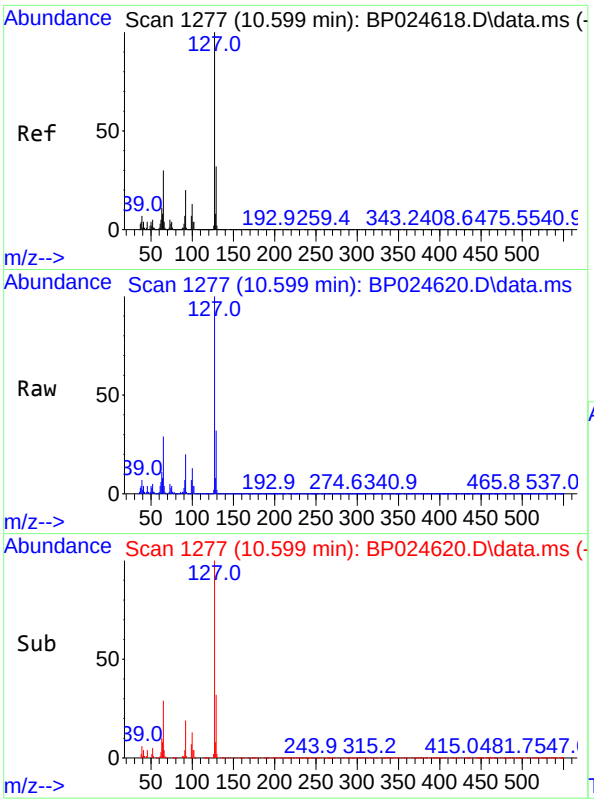


#32
Benzoic acid
Concen: 60.53 ng
RT: 9.799 min Scan# 1141
Delta R.T. 0.024 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:122 Resp: 319375

Ion	Ratio	Lower	Upper
122	100		
105	126.3	106.9	146.9
77	93.0	75.1	115.1



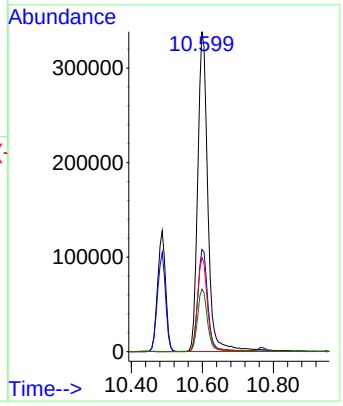


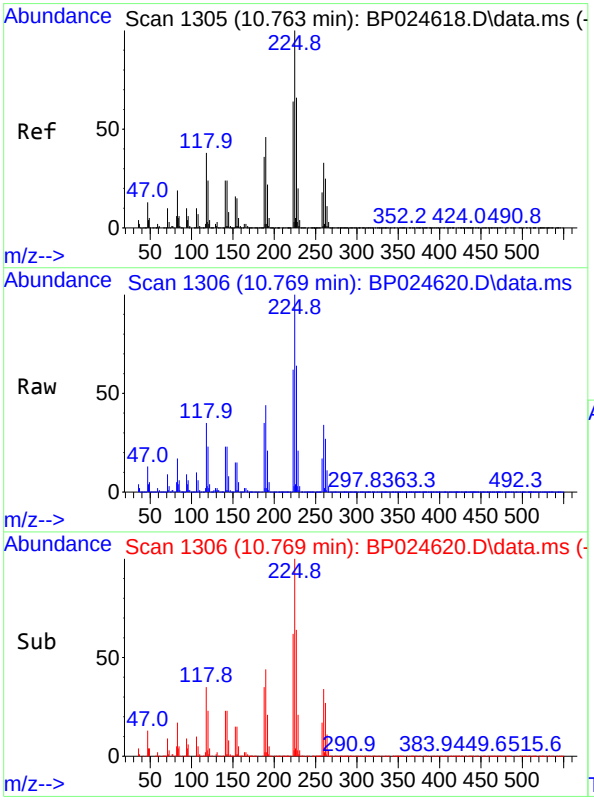
#33
4-Chloroaniline
Concen: 66.26 ng
RT: 10.599 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:127 Resp: 671888

Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.8	38.6
65	29.4	23.9	35.9
92	19.6	16.1	24.1

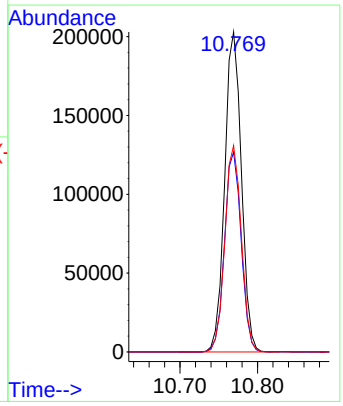


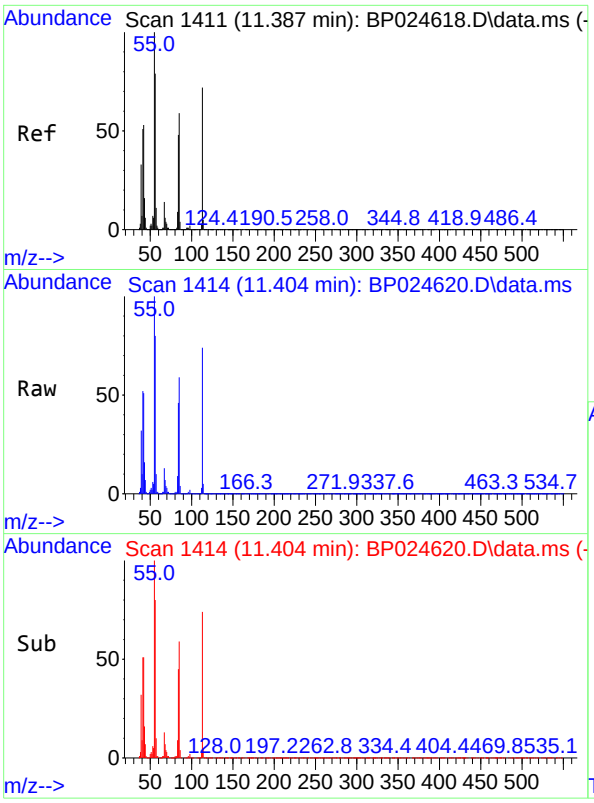


#34
Hexachlorobutadiene
Concen: 58.79 ng
RT: 10.769 min Scan# 1306
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:225 Resp: 303458

Ion	Ratio	Lower	Upper
225	100		
223	62.5	51.0	76.6
227	64.5	53.1	79.7



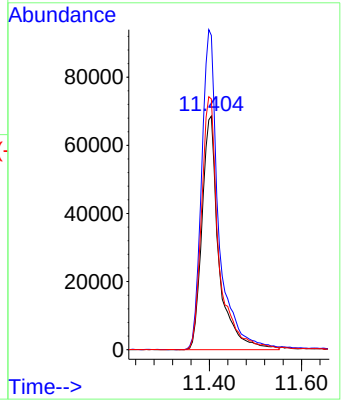


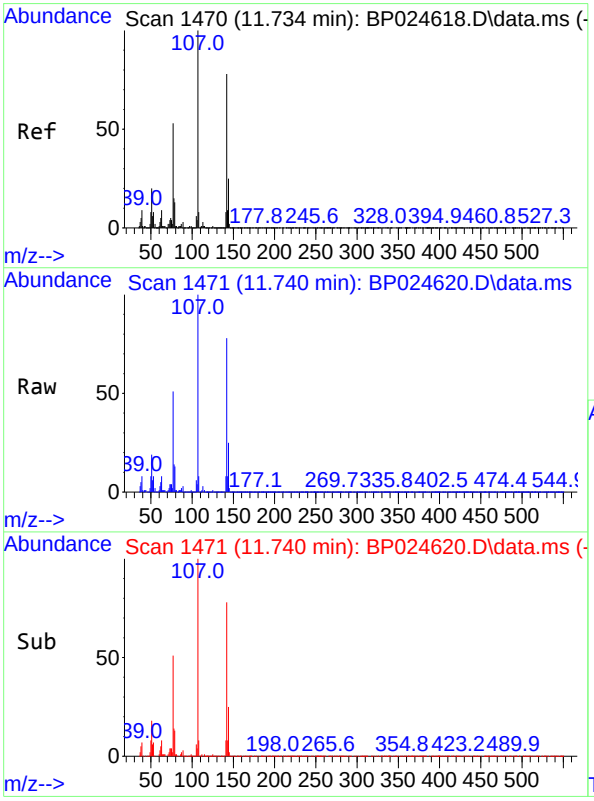
#35
Caprolactam
Concen: 68.70 ng
RT: 11.404 min Scan# 14
Delta R.T. 0.018 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:113 Resp: 175653

Ion	Ratio	Lower	Upper
113	100		
55	134.5	119.0	159.0
56	107.3	90.3	130.3

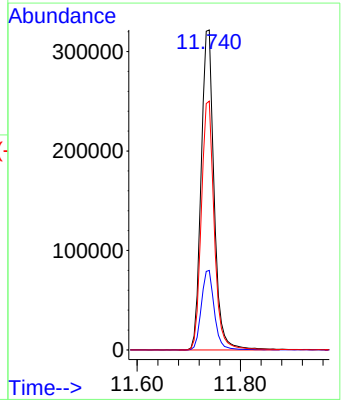


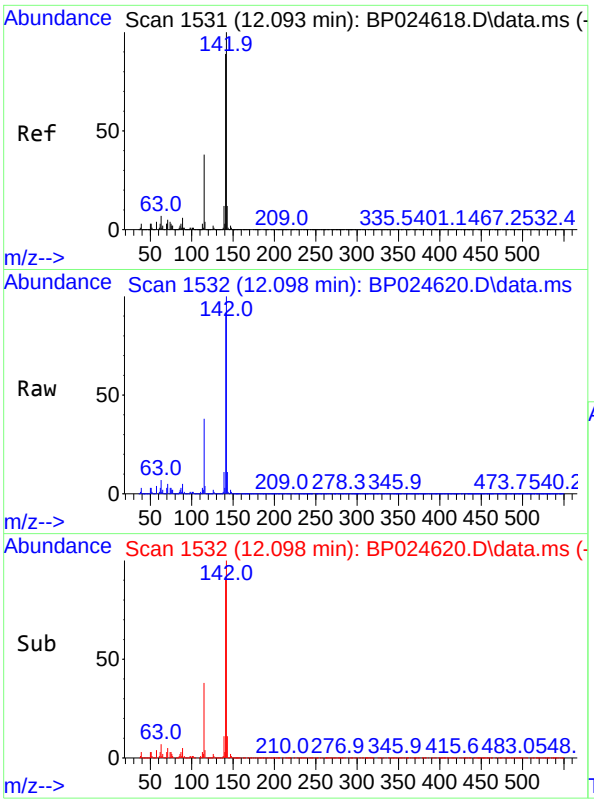


#36
4-Chloro-3-methylphenol
Concen: 64.84 ng
RT: 11.740 min Scan# 1471
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:107 Resp: 559138

Ion	Ratio	Lower	Upper
107	100		
144	24.9	20.1	30.1
142	77.8	62.1	93.1



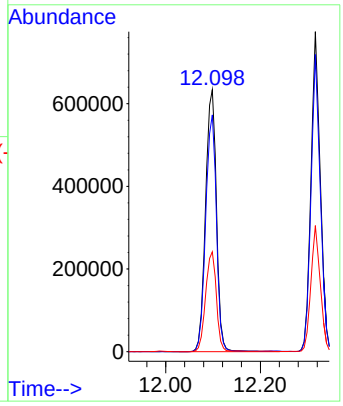


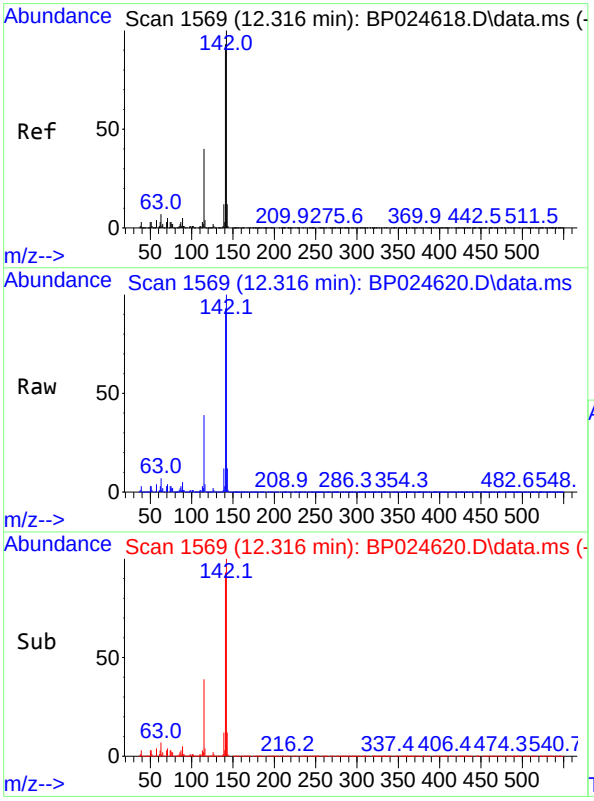
#37
2-Methylnaphthalene
Concen: 61.96 ng
RT: 12.098 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:142 Resp: 1008171

Ion	Ratio	Lower	Upper
142	100		
141	90.4	71.2	106.8
115	38.1	30.6	46.0

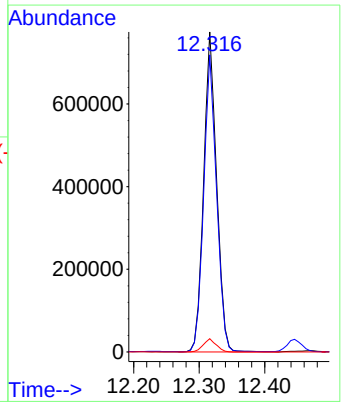


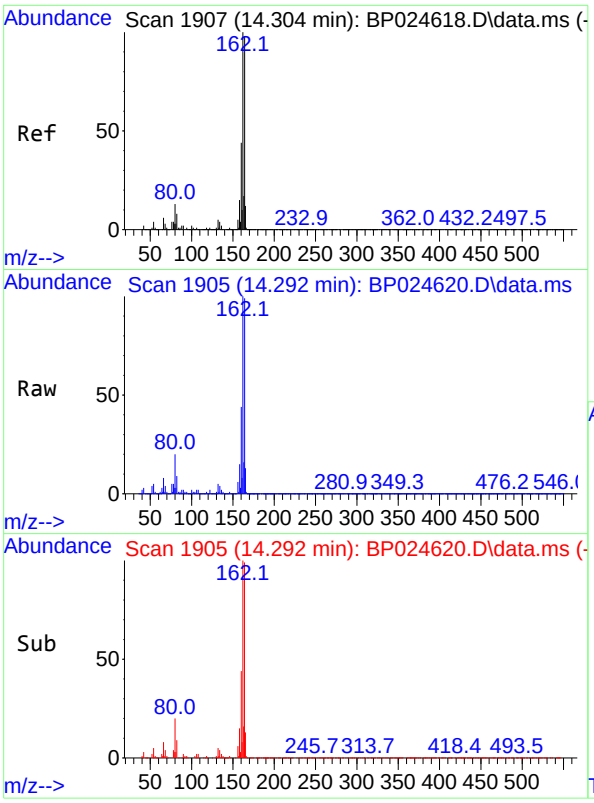


#38
1-Methylnaphthalene
Concen: 61.25 ng
RT: 12.316 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:142 Resp: 1066290

Ion	Ratio	Lower	Upper
142	100		
141	92.9	74.7	112.1
116	4.2	3.4	5.2



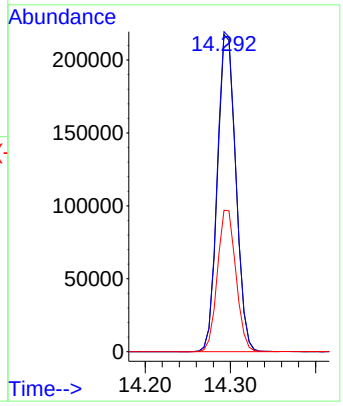


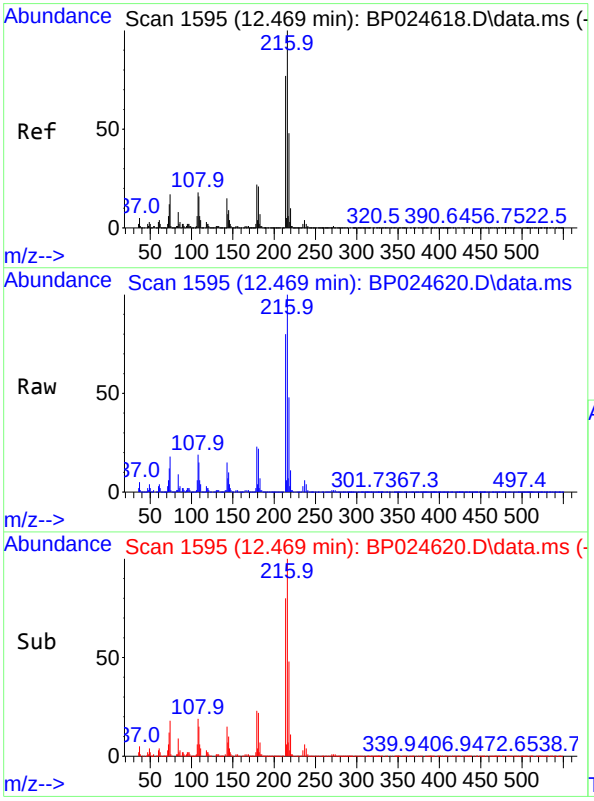
#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.292 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:164 Resp: 325327

Ion	Ratio	Lower	Upper
164	100		
162	100.9	81.8	122.6
160	44.6	36.3	54.5

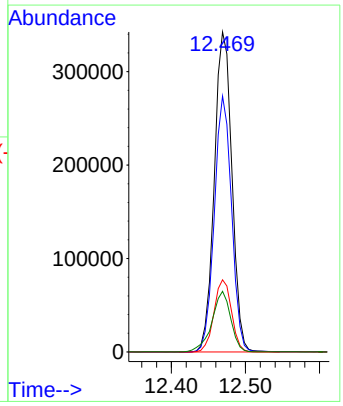


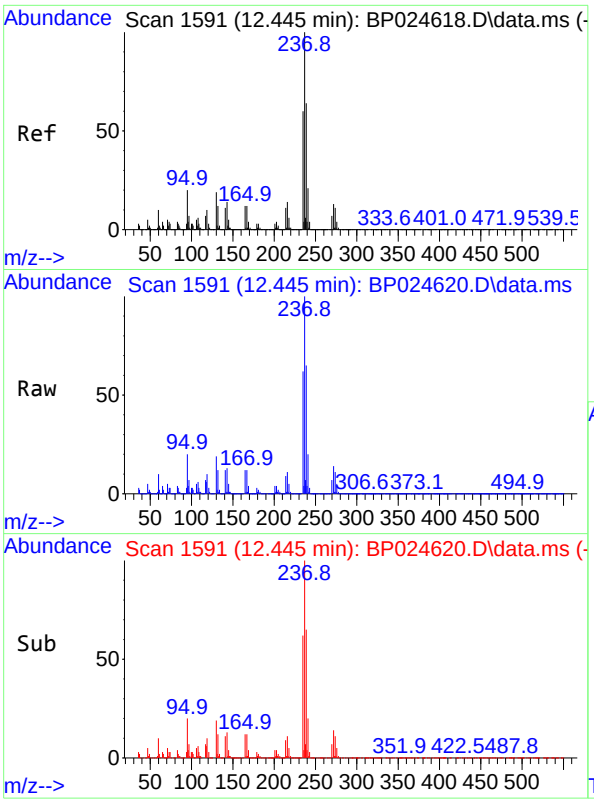


#40
1,2,4,5-Tetrachlorobenzene
Concen: 59.97 ng
RT: 12.469 min Scan# 1595
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:216 Resp: 566530

Ion	Ratio	Lower	Upper
216	100		
214	78.2	62.3	93.5
179	22.4	17.7	26.5
108	20.3	16.0	24.0



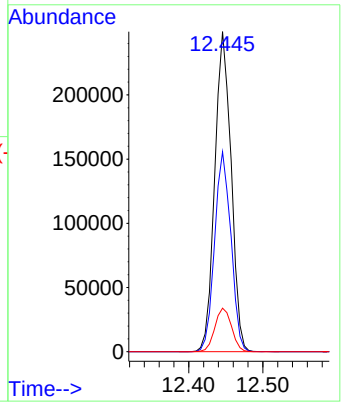


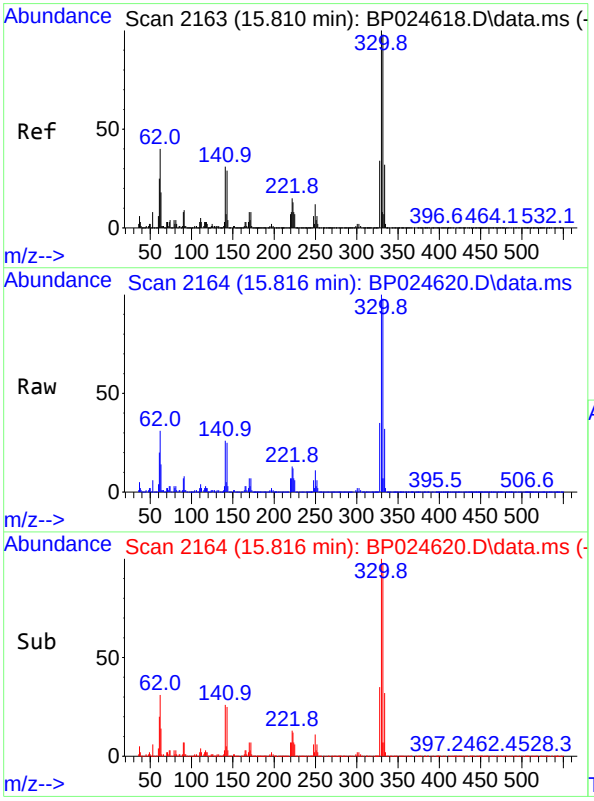
#41
Hexachlorocyclopentadiene
Concen: 66.62 ng
RT: 12.445 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:237 Resp: 381621

Ion	Ratio	Lower	Upper
237	100		
235	62.4	39.9	79.9
272	13.6	0.0	33.2

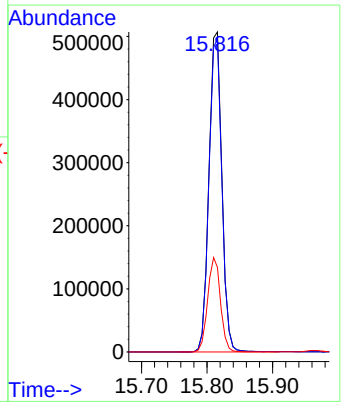


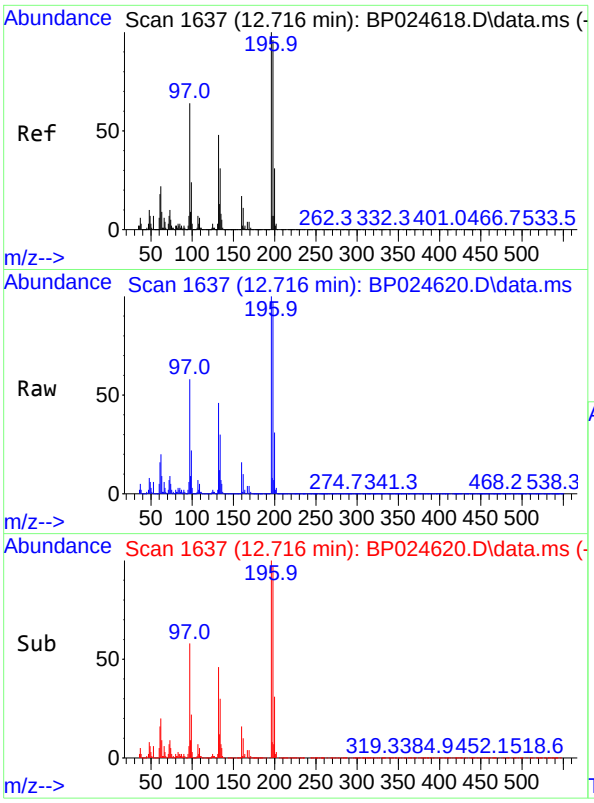


#42
2,4,6-Tribromophenol
Concen: 126.27 ng
RT: 15.816 min Scan# 2164
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:330 Resp: 696428

Ion	Ratio	Lower	Upper
330	100		
332	97.5	78.2	117.4
141	29.3	24.3	36.5



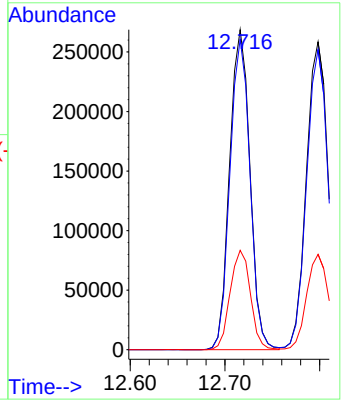


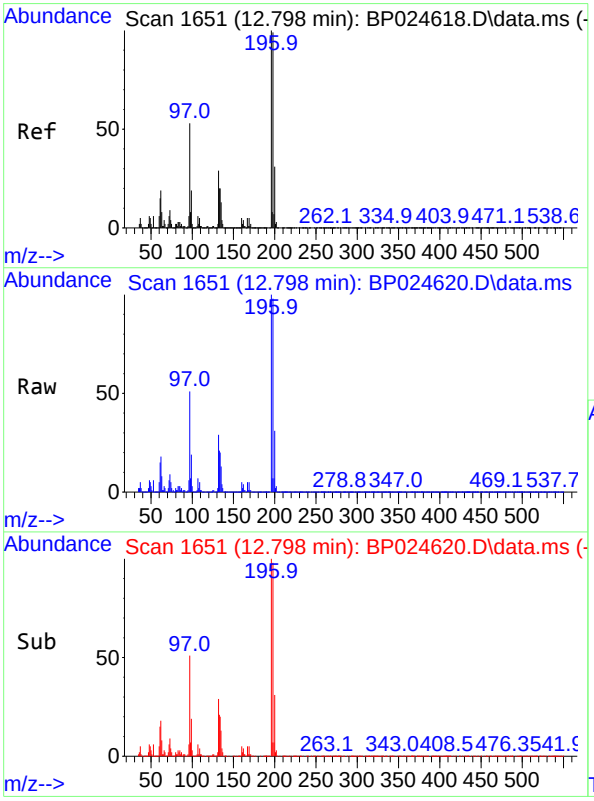
#43
2,4,6-Trichlorophenol
Concen: 65.46 ng
RT: 12.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:196 Resp: 400552

Ion	Ratio	Lower	Upper
196	100		
198	97.0	76.9	115.3
200	31.0	25.2	37.8

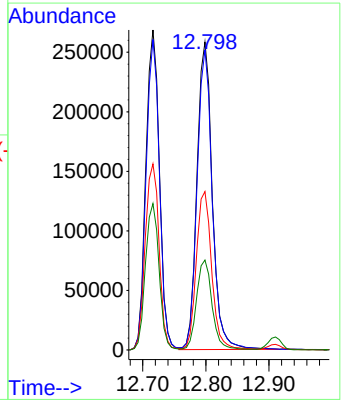


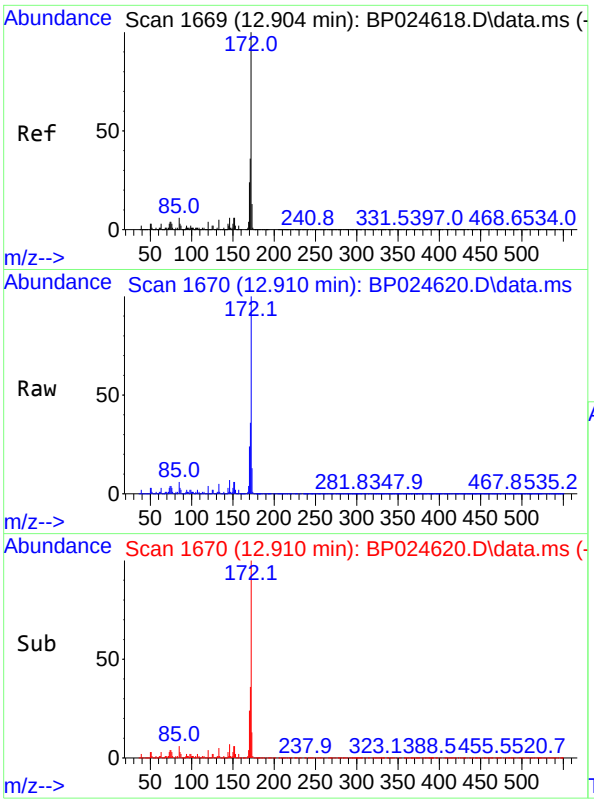


#44
2,4,5-Trichlorophenol
Concen: 64.06 ng
RT: 12.798 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:196 Resp: 436361

Ion	Ratio	Lower	Upper
196	100		
198	97.5	79.2	118.8
97	51.4	42.3	63.5
132	29.2	23.3	34.9



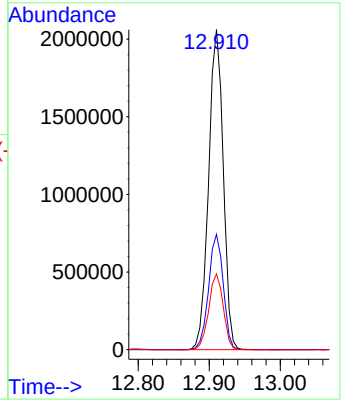


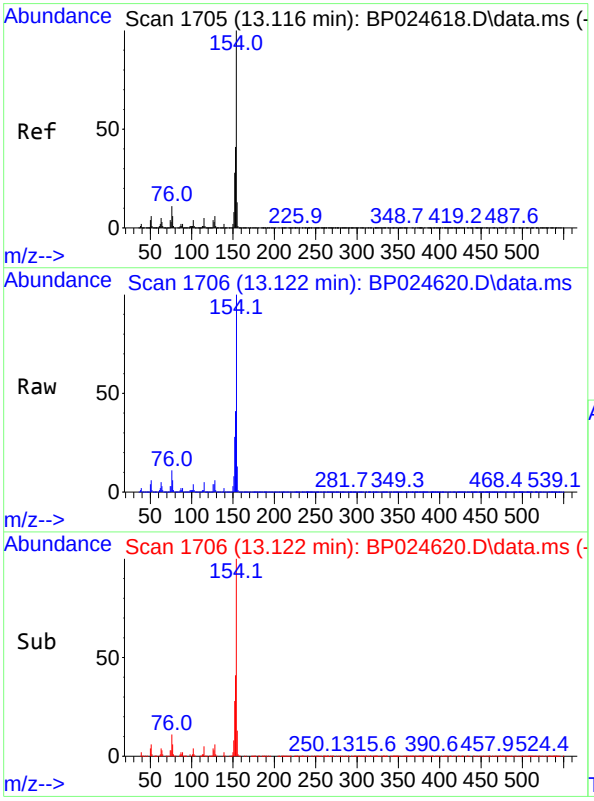
#45
2-Fluorobiphenyl
Concen: 119.08 ng
RT: 12.910 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:172 Resp: 2956939

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.8	43.2
170	23.7	18.8	28.2

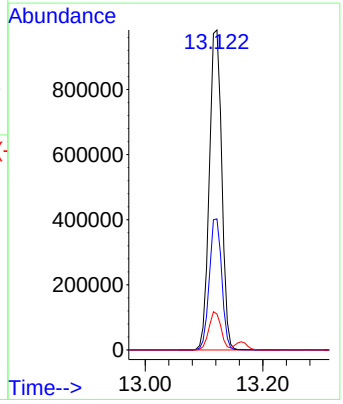


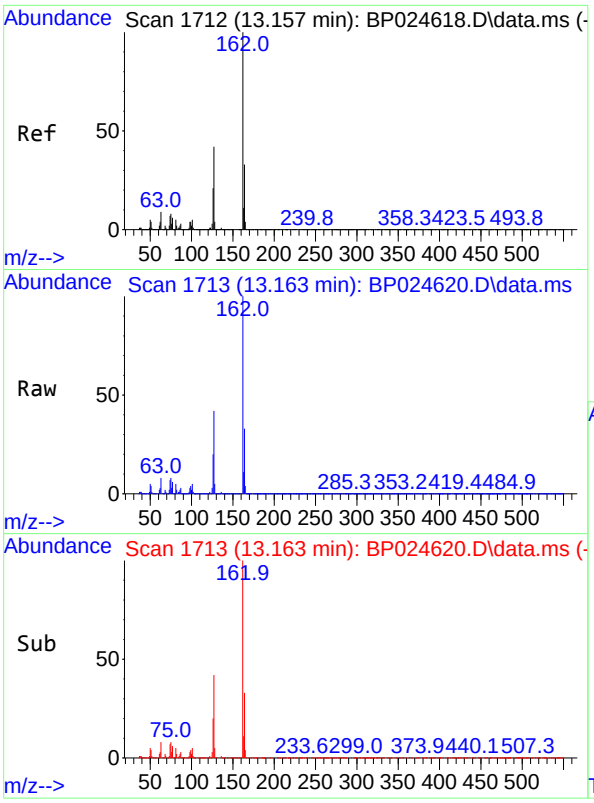


#46
1,1'-Biphenyl
Concen: 59.80 ng
RT: 13.122 min Scan# 1706
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:154 Resp: 1437786

Ion	Ratio	Lower	Upper
154	100		
153	41.0	21.0	61.0
76	11.3	0.0	31.5



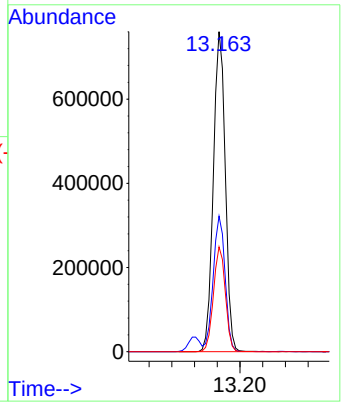


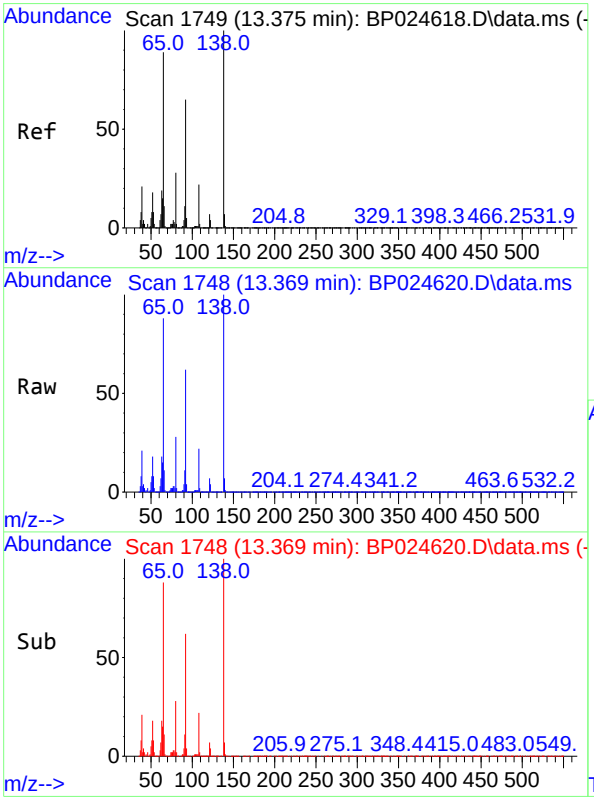
#47
2-Chloronaphthalene
Concen: 60.29 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:162 Resp: 1105298

Ion	Ratio	Lower	Upper
162	100		
127	42.3	33.8	50.6
164	32.8	26.0	39.0

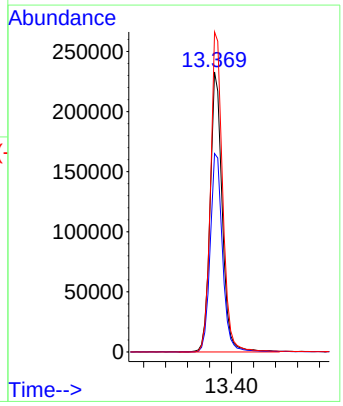


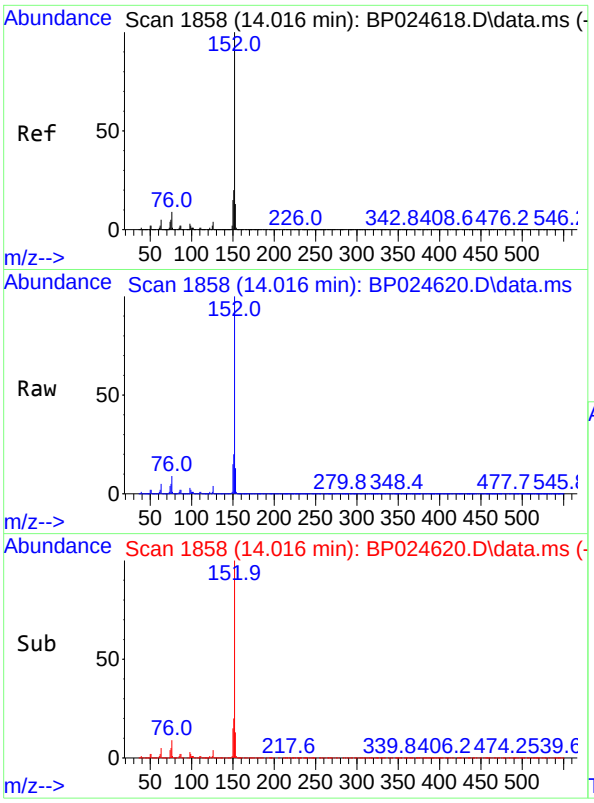


#48
2-Nitroaniline
Concen: 65.40 ng
RT: 13.369 min Scan# 1748
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion: 65 Resp: 354977

Ion	Ratio	Lower	Upper
65	100		
92	70.9	58.7	88.1
138	114.3	90.2	135.2



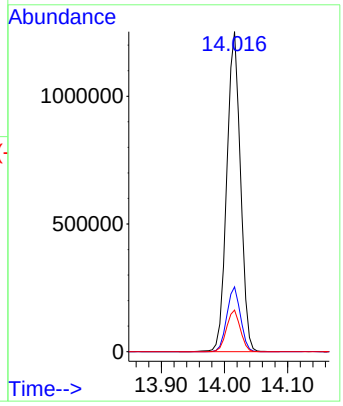


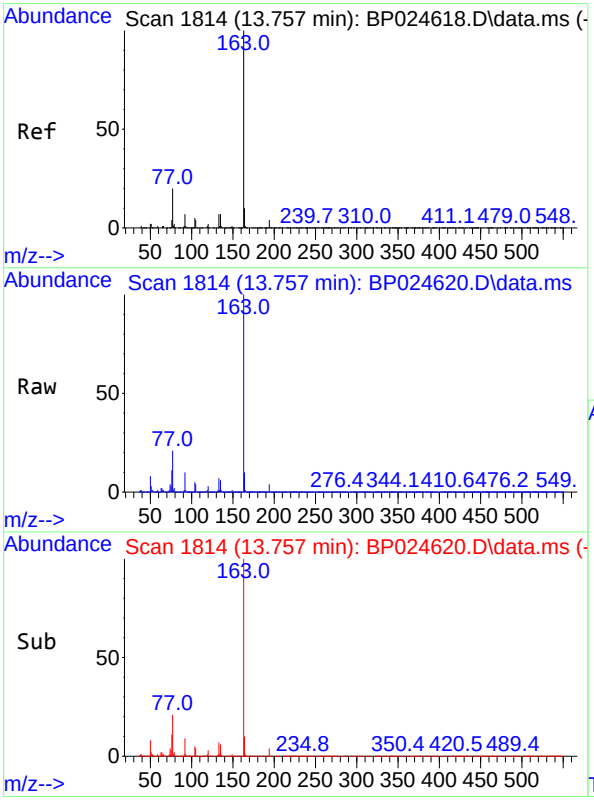
#49
Acenaphthylene
Concen: 61.41 ng
RT: 14.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:152 Resp: 1884018

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	13.0	10.2	15.4

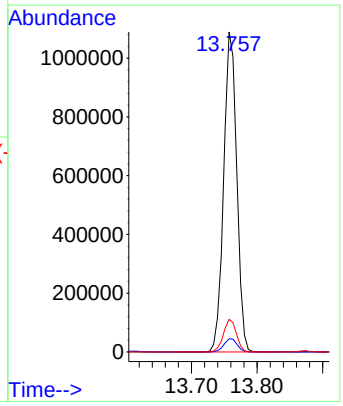


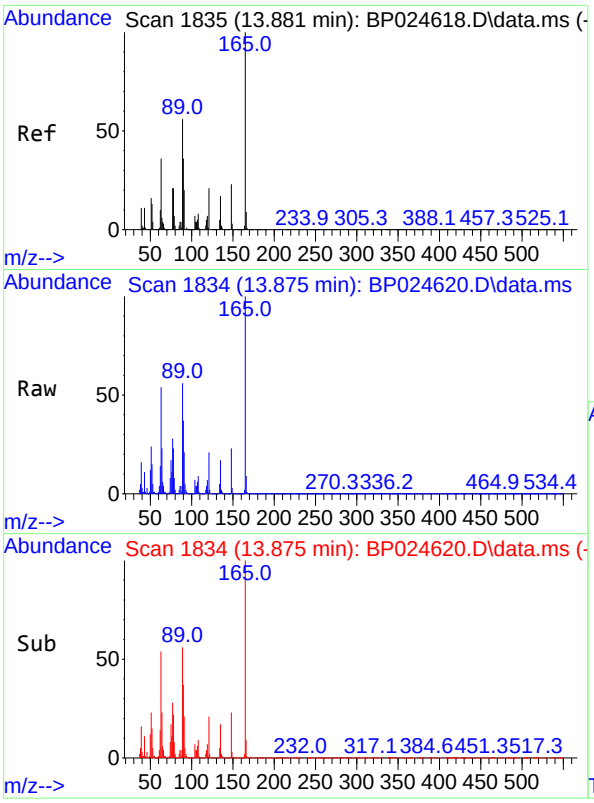


#50
Dimethylphthalate
Concen: 60.42 ng
RT: 13.757 min Scan# 1814
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:163 Resp: 1498318

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.2	8.1	12.1



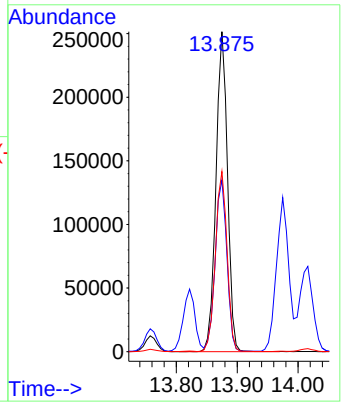


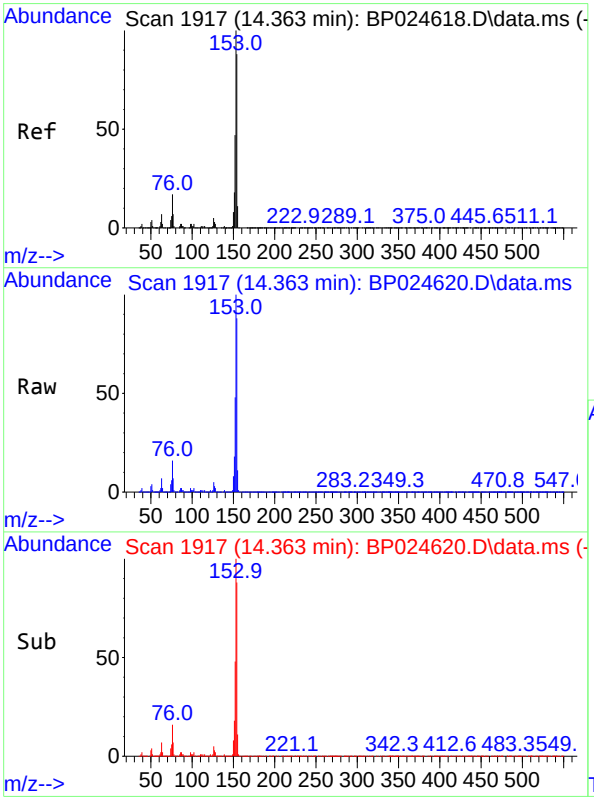
#51
2,6-Dinitrotoluene
Concen: 62.76 ng
RT: 13.875 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 328682

Ion	Ratio	Lower	Upper
165	100		
63	53.7	42.4	63.6
89	56.3	44.8	67.2

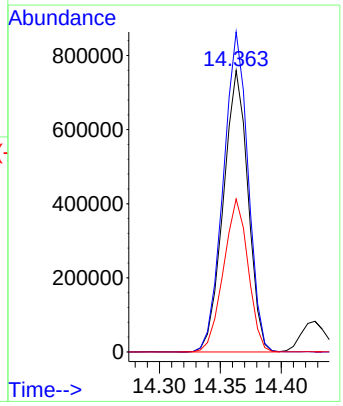


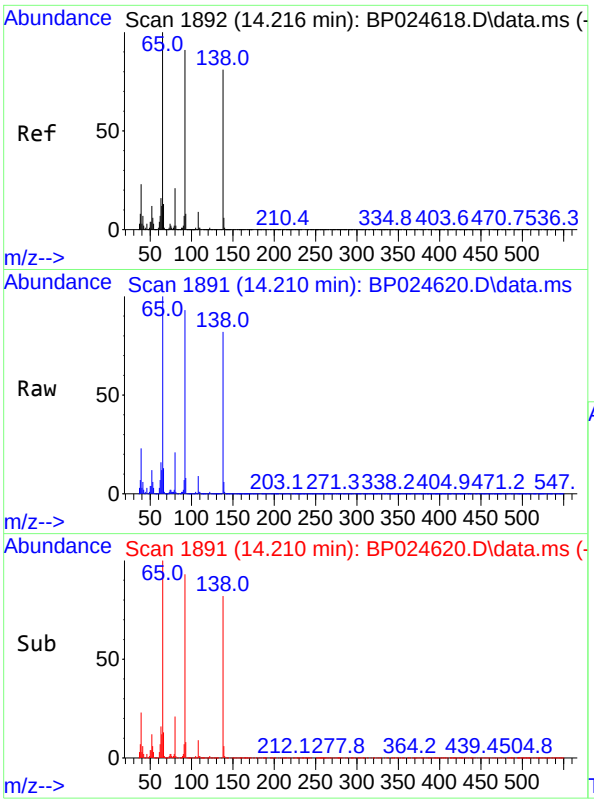


#52
Acenaphthene
Concen: 60.80 ng
RT: 14.363 min Scan# 1917
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:154 Resp: 1072483

Ion	Ratio	Lower	Upper
154	100		
153	113.7	91.0	136.4
152	54.4	42.9	64.3



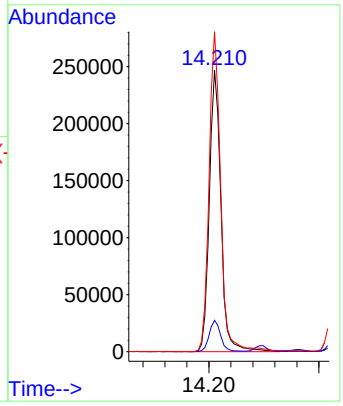


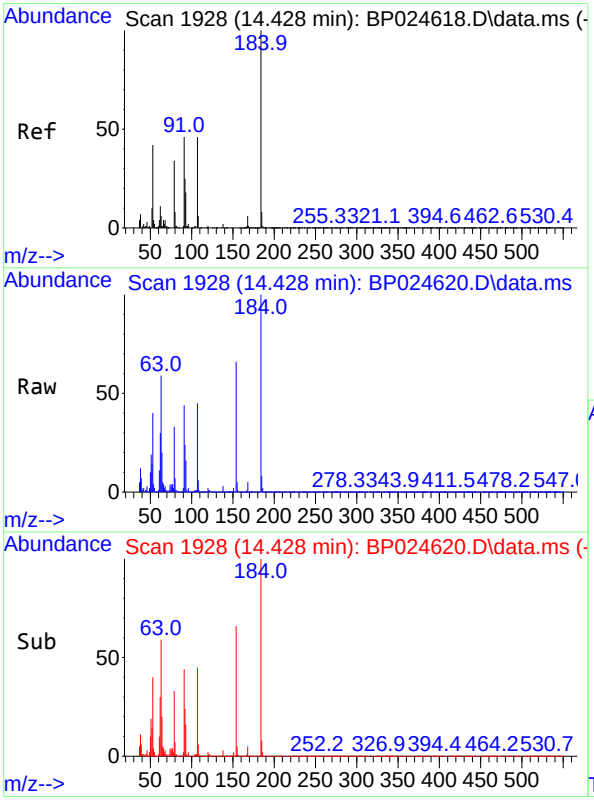
#53
3-Nitroaniline
Concen: 67.54 ng
RT: 14.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:138 Resp: 361174

Ion	Ratio	Lower	Upper
138	100		
108	11.1	9.0	13.4
92	113.7	90.1	135.1

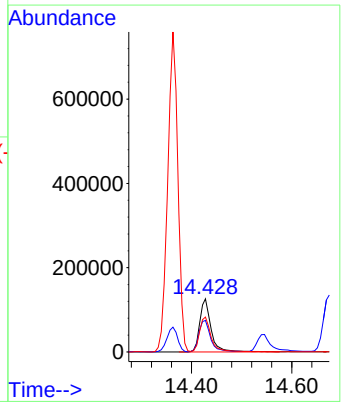


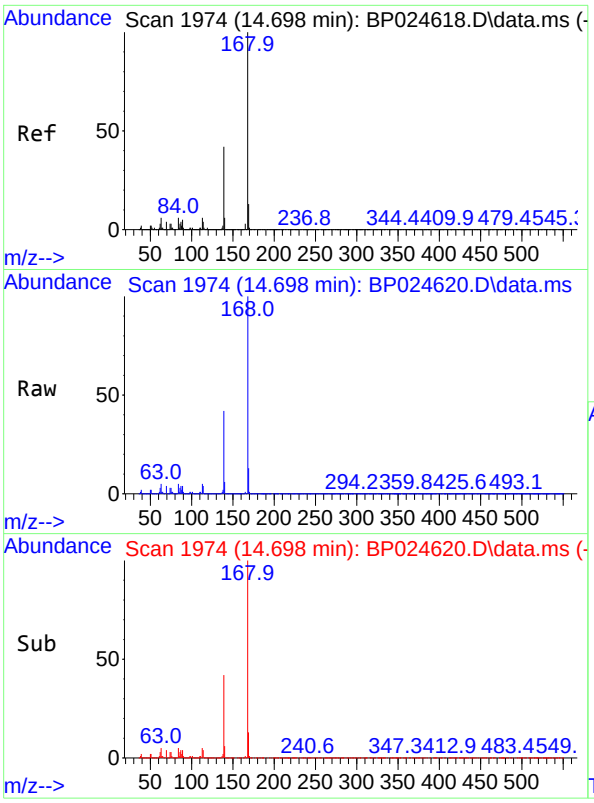


#54
2,4-Dinitrophenol
Concen: 61.10 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:184 Resp: 196350

Ion	Ratio	Lower	Upper
184	100		
63	59.3	51.3	76.9
154	65.7	53.5	80.3



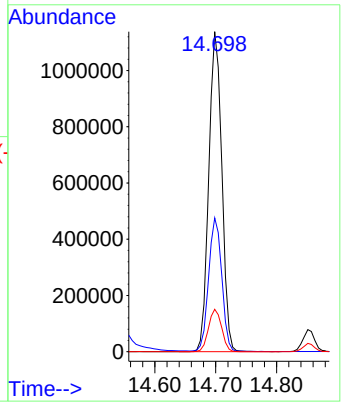


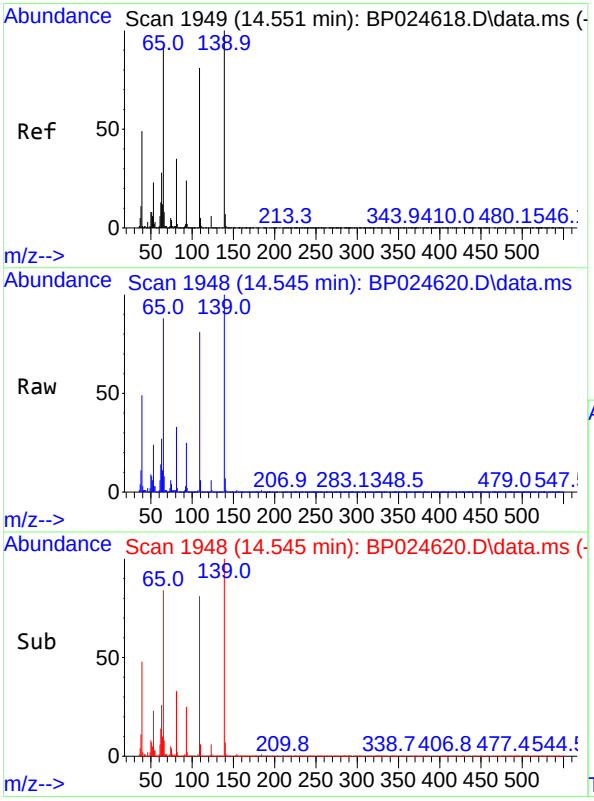
#55
Dibenzofuran
Concen: 60.13 ng
RT: 14.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:168 Resp: 1691790

Ion	Ratio	Lower	Upper
168	100		
139	41.8	34.2	51.4
169	13.3	10.8	16.2

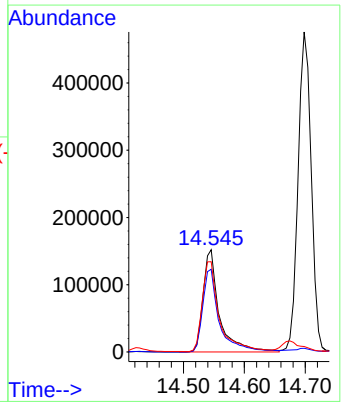


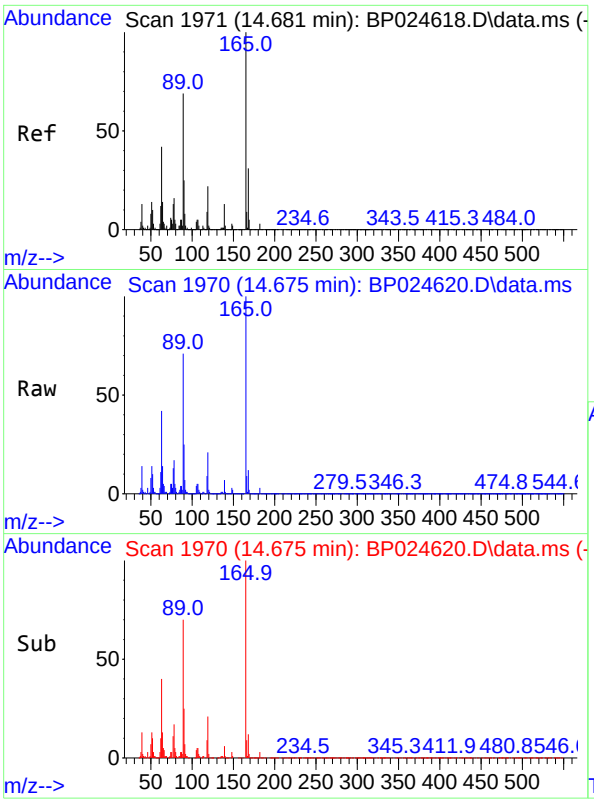


#56
4-Nitrophenol
Concen: 61.78 ng
RT: 14.545 min Scan# 1948
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:139 Resp: 281293

Ion	Ratio	Lower	Upper
139	100		
109	80.9	61.4	101.4
65	88.2	72.2	112.2



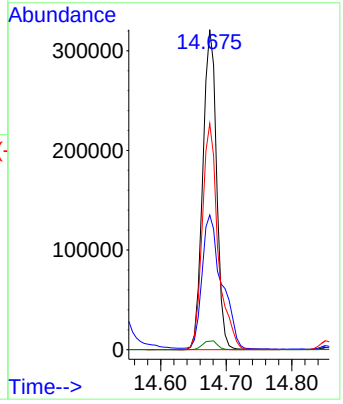


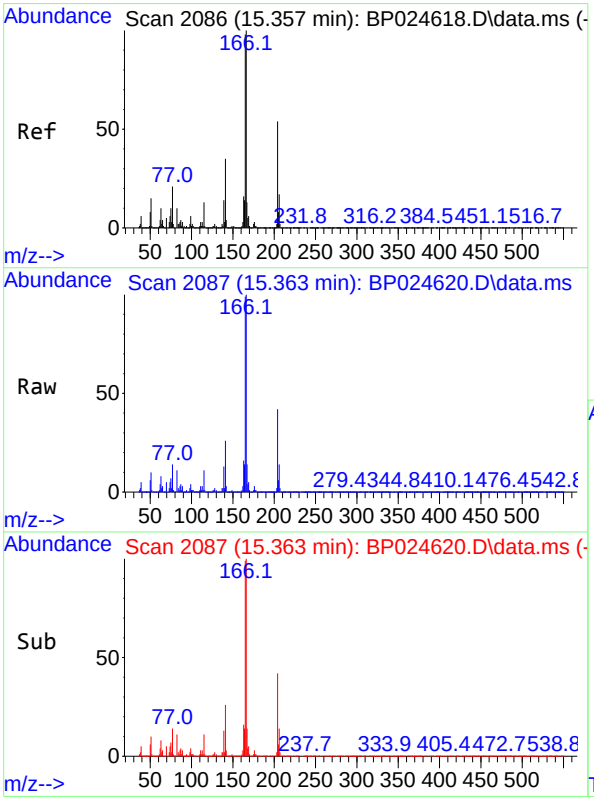
#57
2,4-Dinitrotoluene
Concen: 63.87 ng
RT: 14.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:165 Resp: 471525

Ion	Ratio	Lower	Upper
165	100		
63	42.1	33.8	50.6
89	70.6	55.6	83.4
182	2.7	2.4	3.6

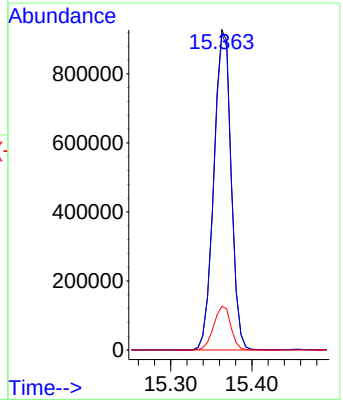


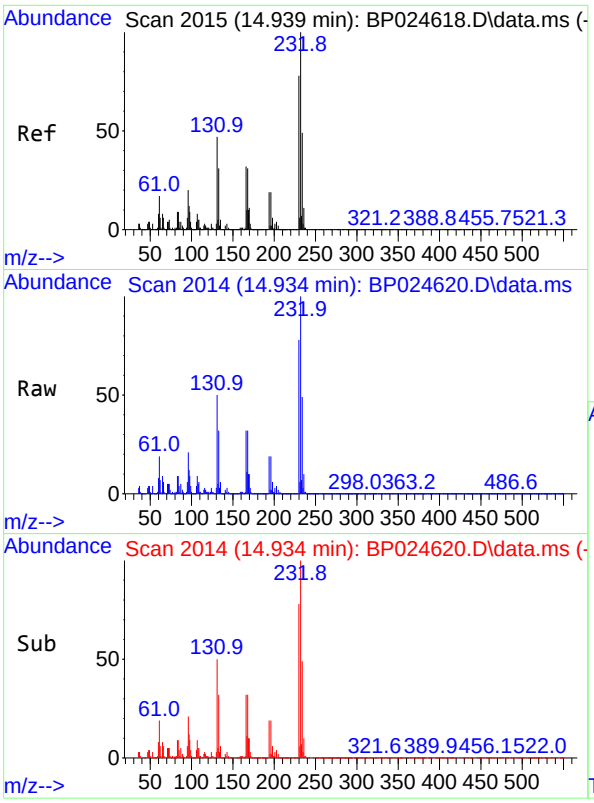


#58
Fluorene
Concen: 60.00 ng
RT: 15.363 min Scan# 2087
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:166 Resp: 1376412

Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.5	117.7
167	13.6	10.7	16.1



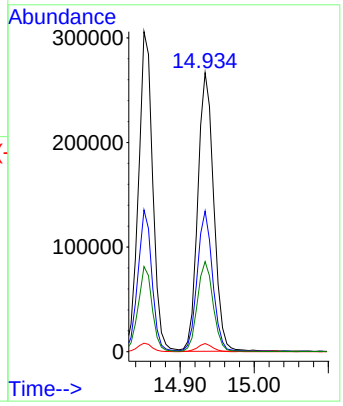


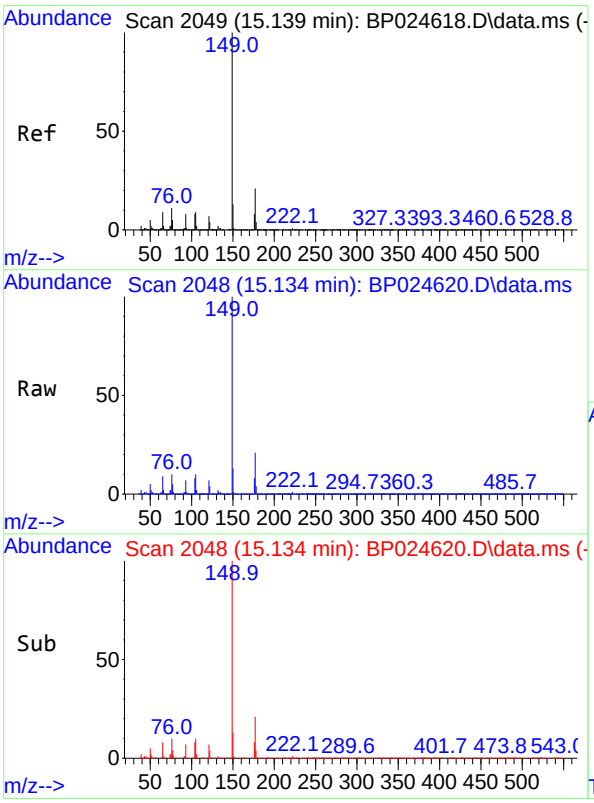
#59
2,3,4,6-Tetrachlorophenol
Concen: 62.78 ng
RT: 14.934 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:232 Resp: 396678

Ion	Ratio	Lower	Upper
232	100		
131	49.0	39.5	59.3
130	2.7	2.2	3.4
166	31.9	25.7	38.5

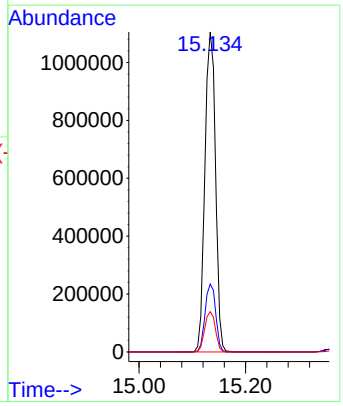


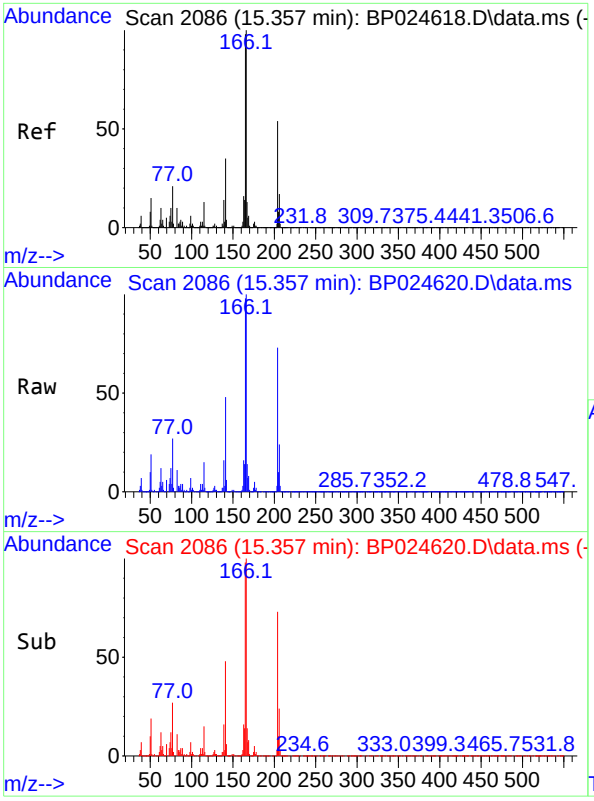


#60
Diethylphthalate
Concen: 60.87 ng
RT: 15.134 min Scan# 2048
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:149 Resp: 1525628

Ion	Ratio	Lower	Upper
149	100		
177	21.2	16.7	25.1
150	12.6	10.2	15.2



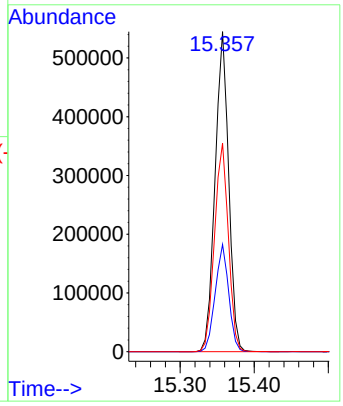


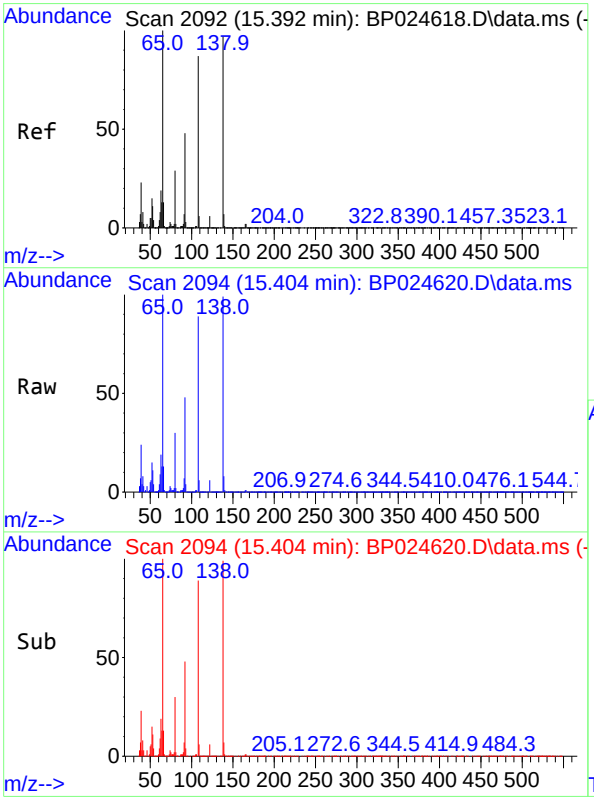
#61
4-Chlorophenyl-phenylether
Concen: 60.51 ng
RT: 15.357 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:204 Resp: 692230

Ion	Ratio	Lower	Upper
204	100		
206	33.5	26.0	39.0
141	65.2	52.9	79.3

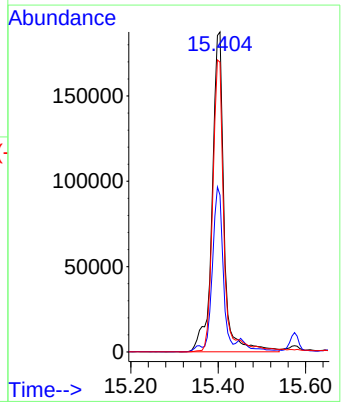


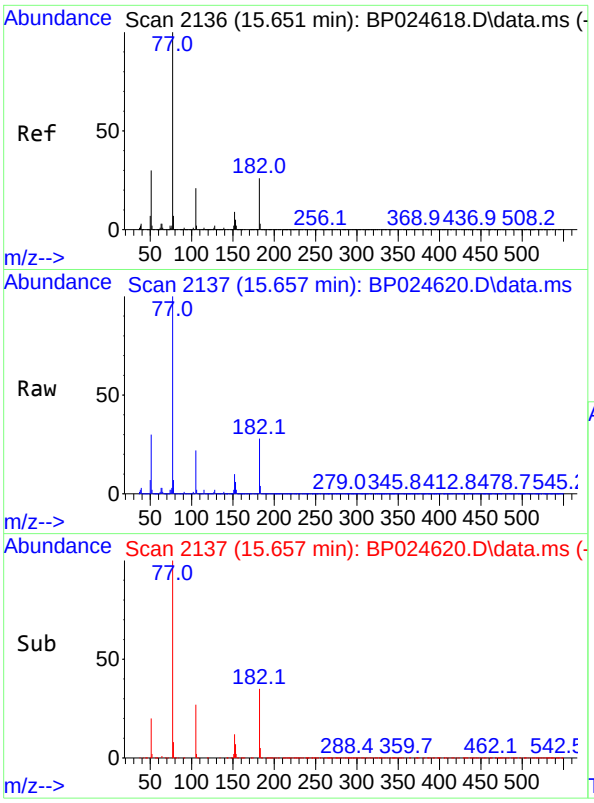


#62
4-Nitroaniline
Concen: 68.05 ng
RT: 15.404 min Scan# 2094
Delta R.T. 0.012 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:138 Resp: 354287

Ion	Ratio	Lower	Upper
138	100		
92	49.0	29.2	69.2
108	90.5	69.0	109.0



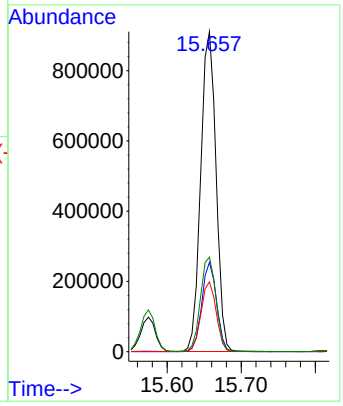


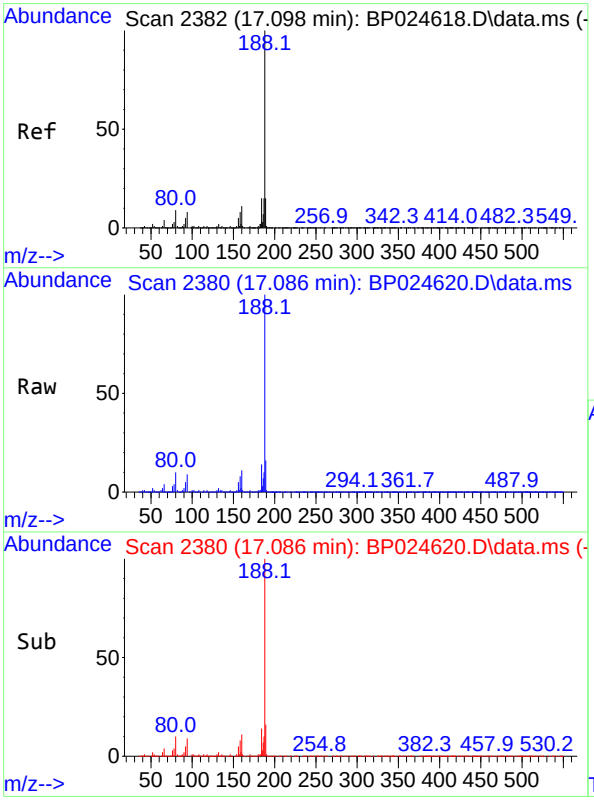
#63
Azobenzene
Concen: 61.14 ng
RT: 15.657 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion: 77 Resp: 1310800

Ion	Ratio	Lower	Upper
77	100		
182	27.9	5.7	45.7
105	21.8	1.3	41.3
51	29.6	10.6	50.6

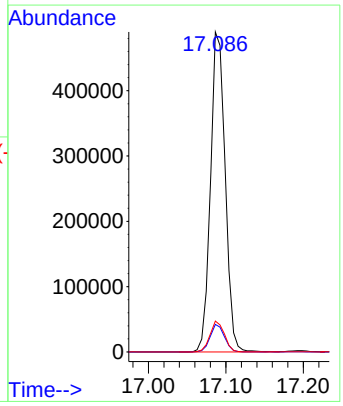


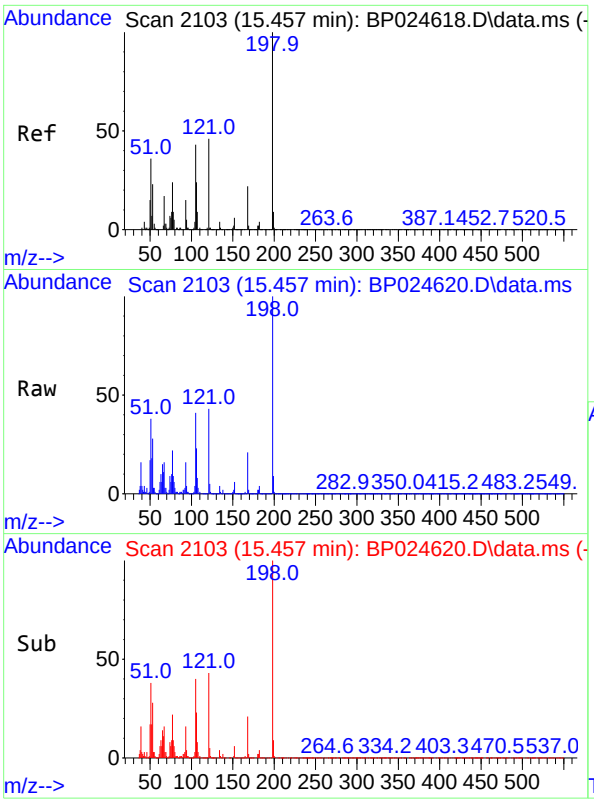


#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.086 min Scan# 2380
Delta R.T. -0.012 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:188 Resp: 646756

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.5	9.7
80	9.6	7.3	10.9



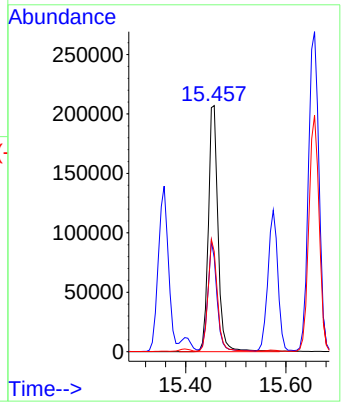


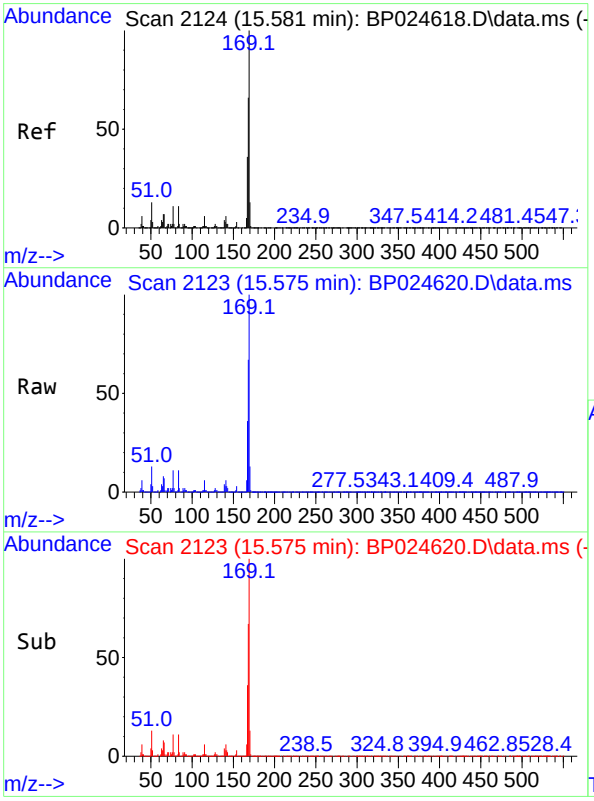
#65
4,6-Dinitro-2-methylphenol
Concen: 66.55 ng
RT: 15.457 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:198 Resp: 278024

Ion	Ratio	Lower	Upper
198	100		
51	38.1	21.1	61.1
105	40.6	23.6	63.6

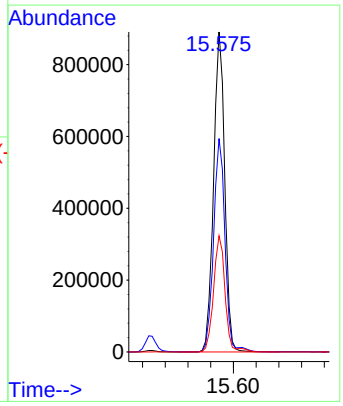


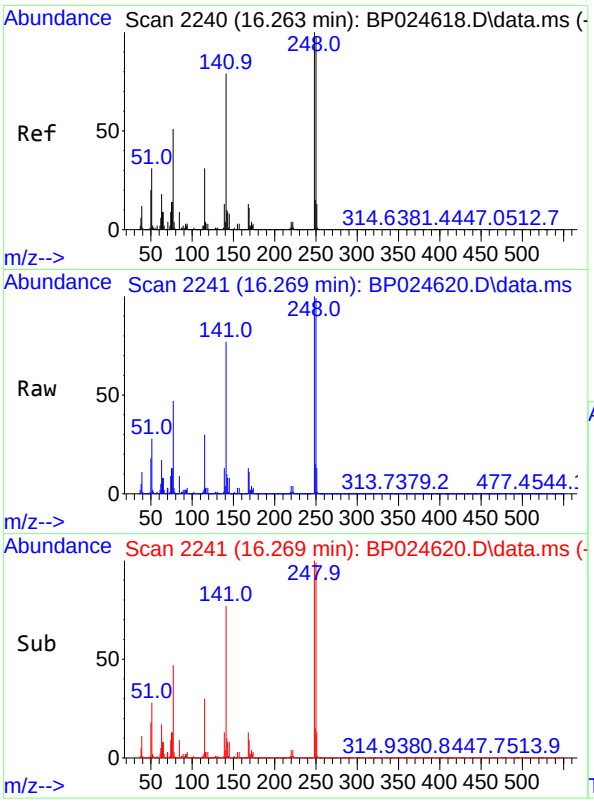


#66
n-Nitrosodiphenylamine
Concen: 60.68 ng
RT: 15.575 min Scan# 2123
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:169 Resp: 1205525

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.2	79.8
167	36.3	28.6	43.0



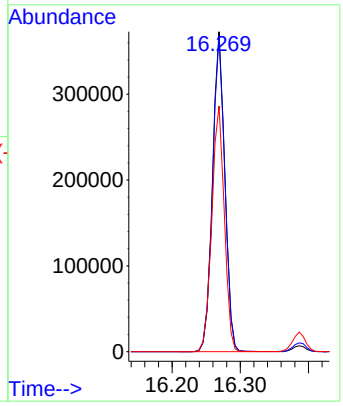


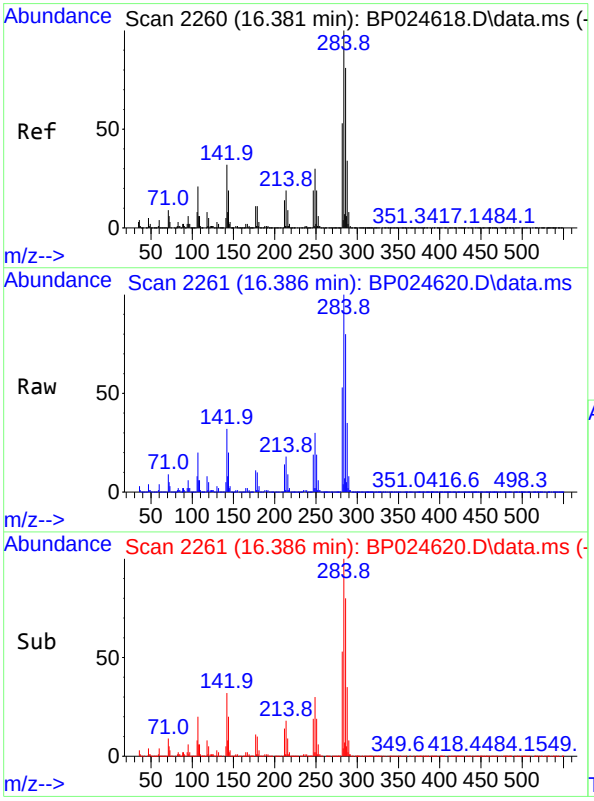
#67
4-Bromophenyl-phenylether
Concen: 61.56 ng
RT: 16.269 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:248 Resp: 469127

Ion	Ratio	Lower	Upper
248	100		
250	98.6	78.2	117.4
141	76.7	63.0	94.6

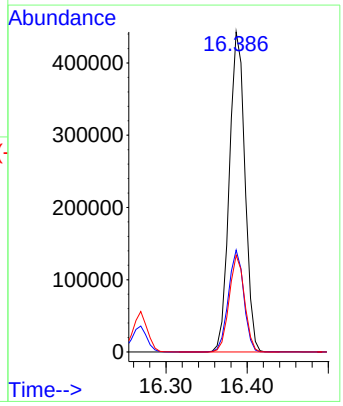


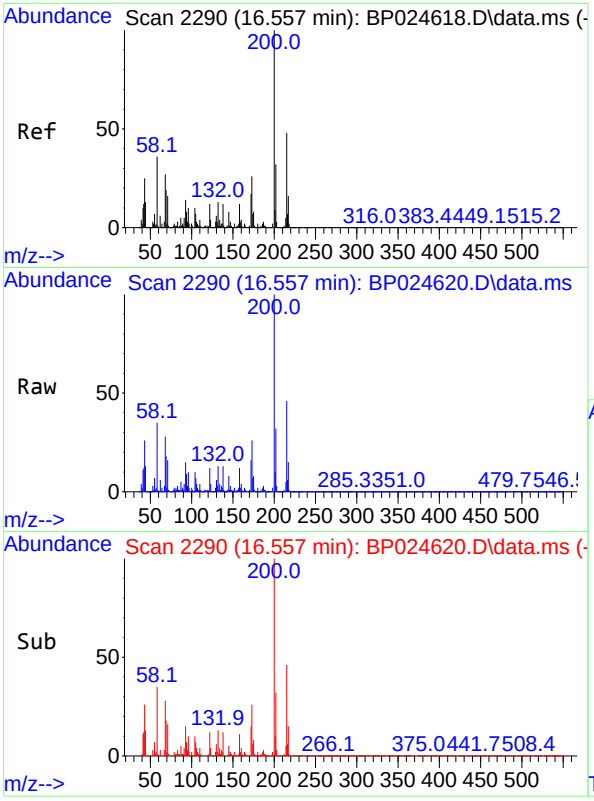


#68
Hexachlorobenzene
Concen: 60.99 ng
RT: 16.386 min Scan# 2261
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:284 Resp: 590615

Ion	Ratio	Lower	Upper
284	100		
142	31.9	25.9	38.9
249	30.3	24.1	36.1



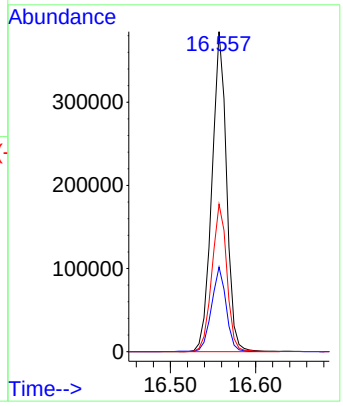


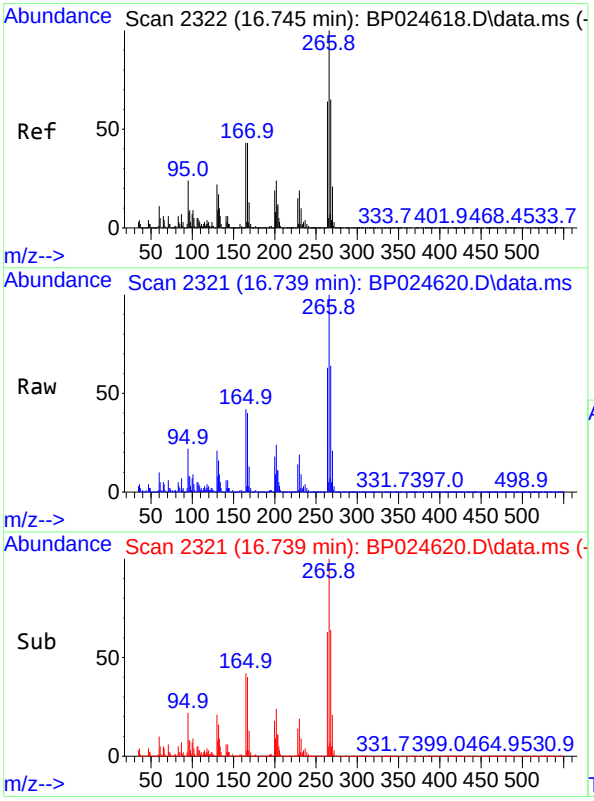
#69
Atrazine
Concen: 63.29 ng
RT: 16.557 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:200 Resp: 460742

Ion	Ratio	Lower	Upper
200	100		
173	26.4	5.9	45.9
215	46.1	28.3	68.3

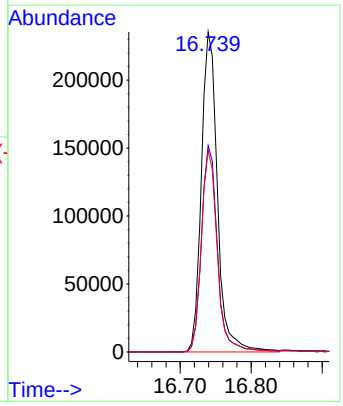


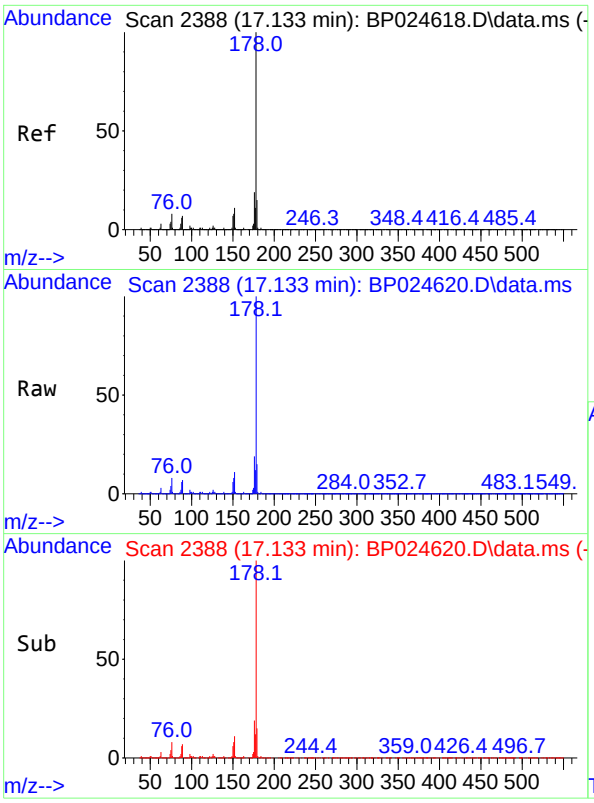


#70
Pentachlorophenol
Concen: 68.29 ng
RT: 16.739 min Scan# 2321
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:266 Resp: 371465

Ion	Ratio	Lower	Upper
266	100		
268	64.5	52.2	78.4
264	62.9	51.1	76.7



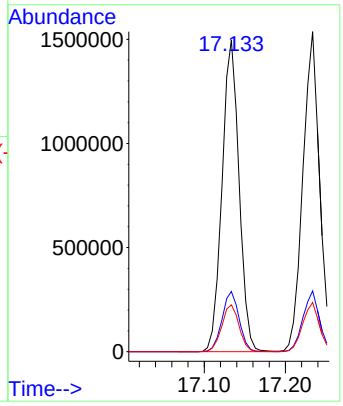


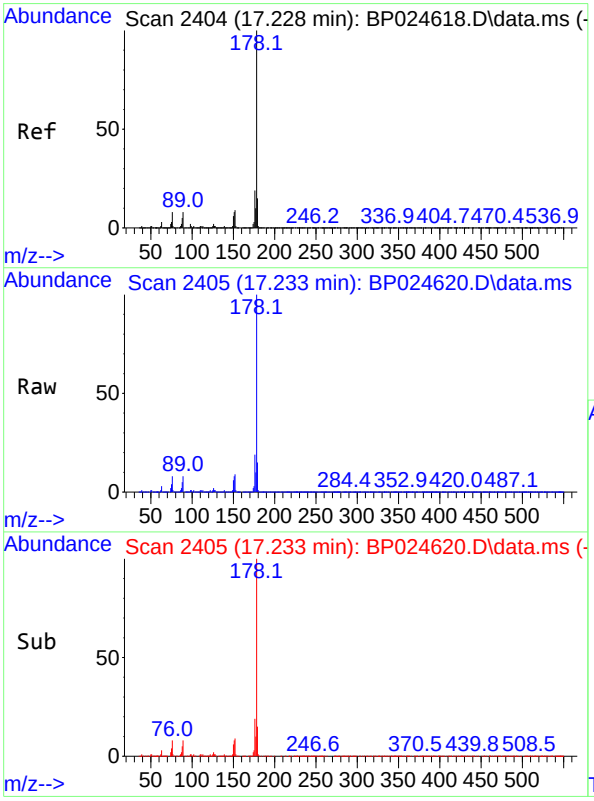
#71
Phenanthrene
Concen: 60.73 ng
RT: 17.133 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:178 Resp: 2183329

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.1	12.2	18.4

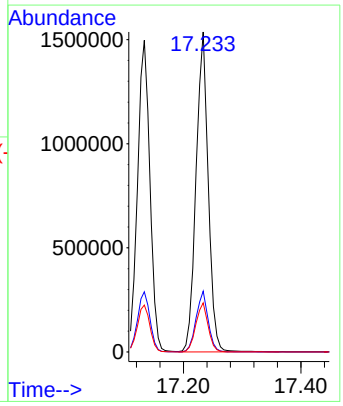


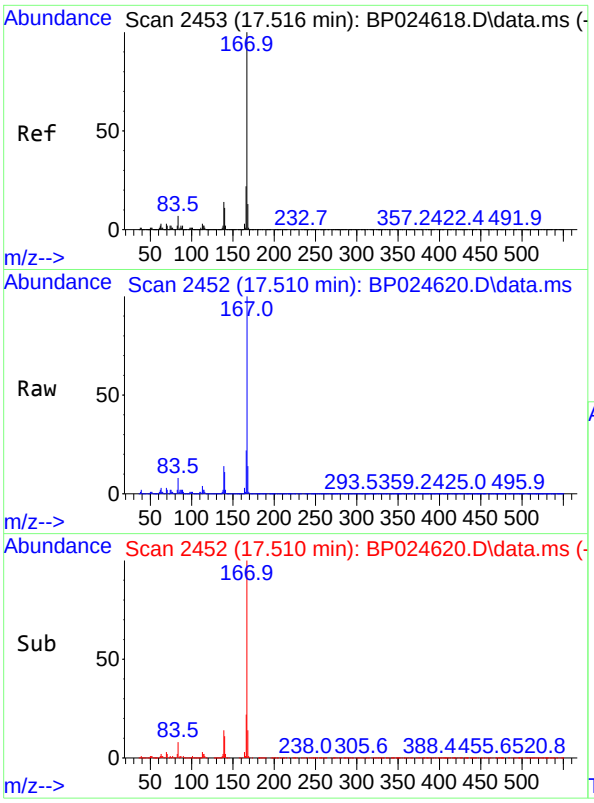


#72
Anthracene
Concen: 61.11 ng
RT: 17.233 min Scan# 2405
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:178 Resp: 2210412

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.0	22.4
179	15.3	12.2	18.2



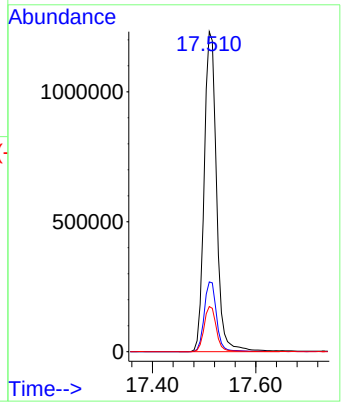


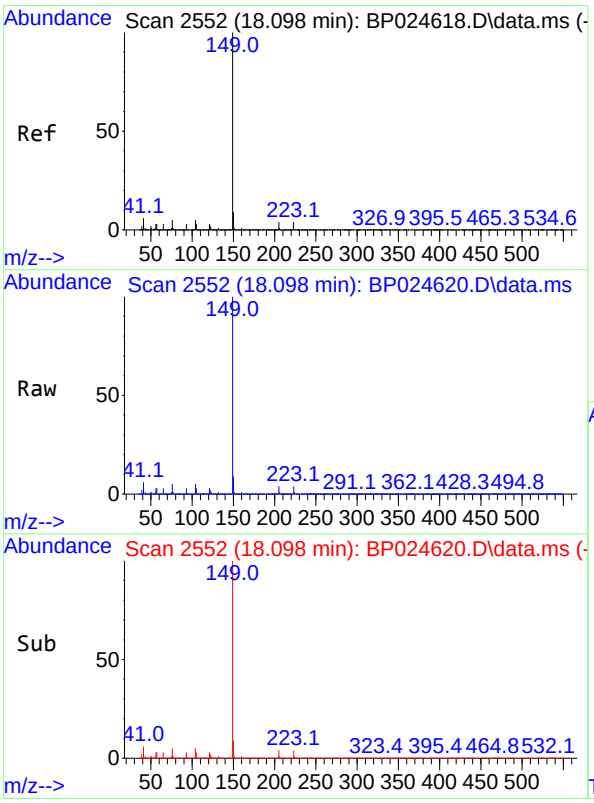
#73
Carbazole
Concen: 62.39 ng
RT: 17.510 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:167 Resp: 2042777

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.7	26.5
139	14.1	11.3	16.9

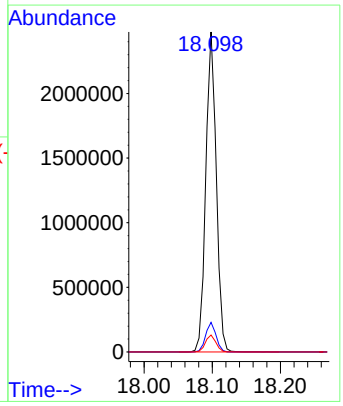


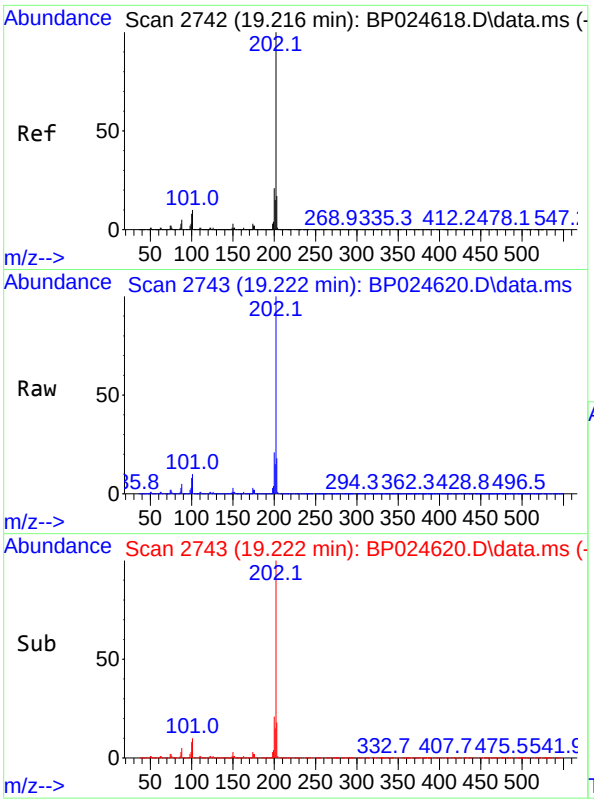


#74
Di-n-butylphthalate
Concen: 62.81 ng
RT: 18.098 min Scan# 2552
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:149 Resp: 2644959

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.2	10.8
104	5.3	4.3	6.5



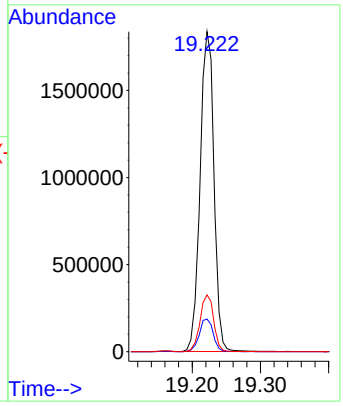


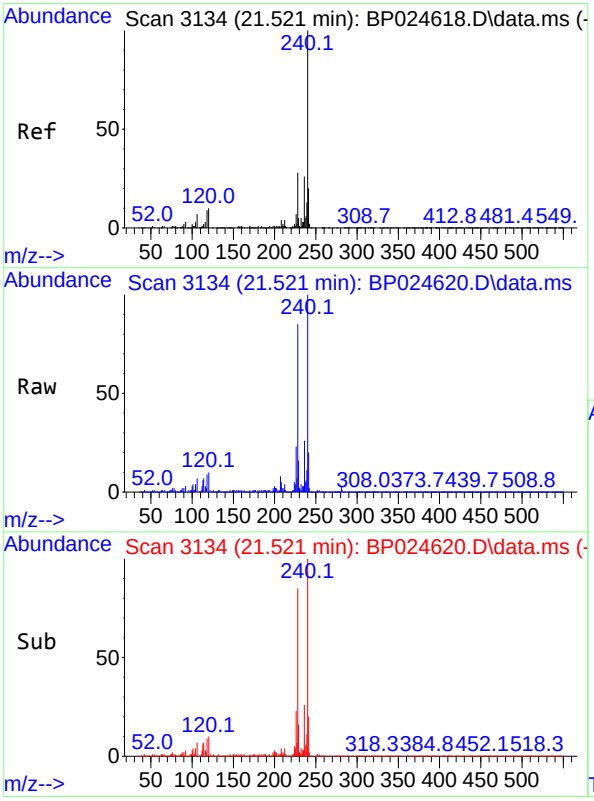
#75
Fluoranthene
Concen: 61.73 ng
RT: 19.222 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:202 Resp: 2594532

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	30.3
203	17.8	0.0	37.5

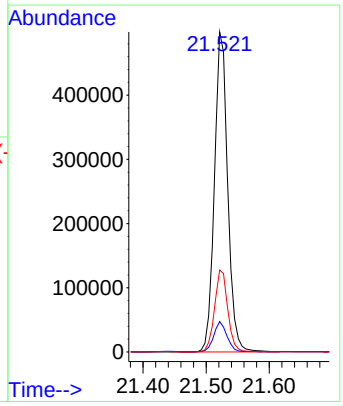


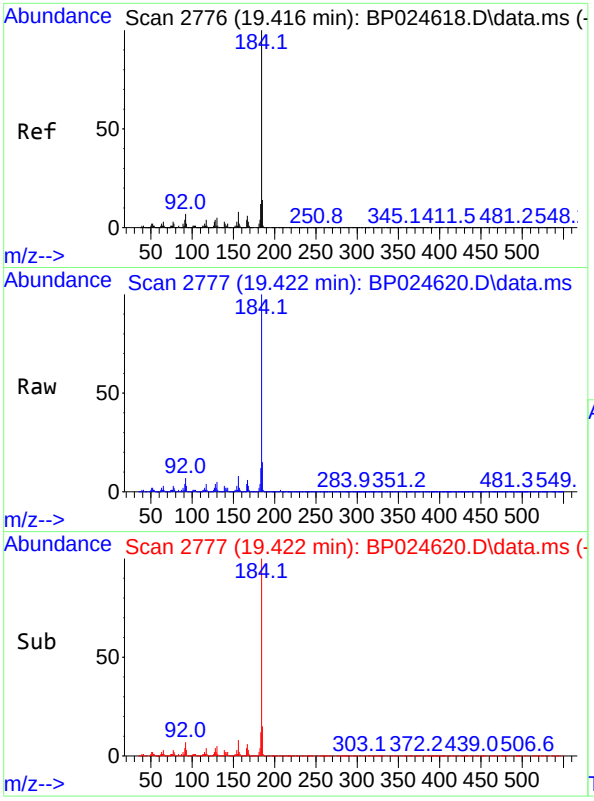


#76
Chrysene-d12
Concen: 20.00 ng
RT: 21.521 min Scan# 3134
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:240 Resp: 726281

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.8	11.6
236	25.6	20.6	31.0



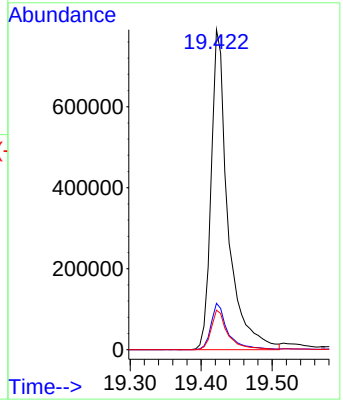


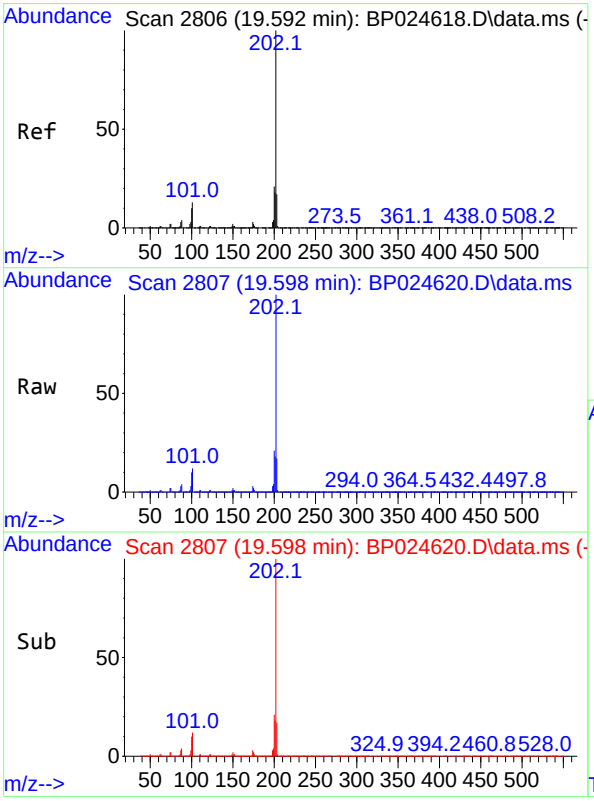
#77
Benzidine
Concen: 65.42 ng
RT: 19.422 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:184 Resp: 1304259

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.2	16.8
183	12.4	9.8	14.8

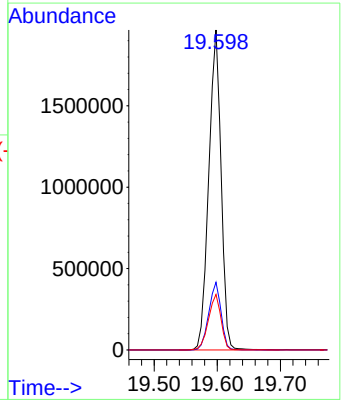


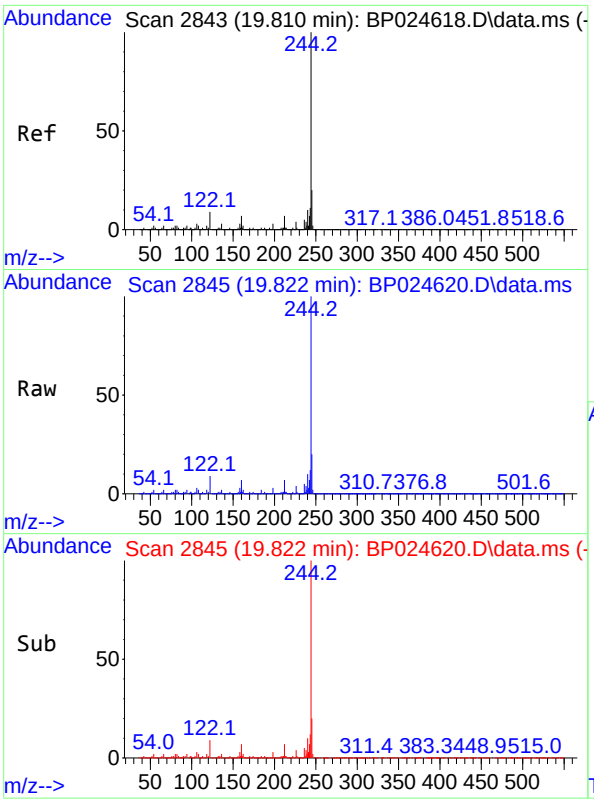


#78
Pyrene
Concen: 61.17 ng
RT: 19.598 min Scan# 2807
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:202 Resp: 2661811

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.4	13.9	20.9



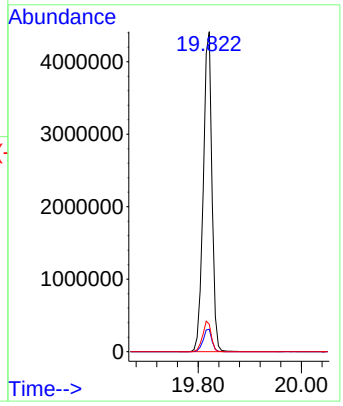


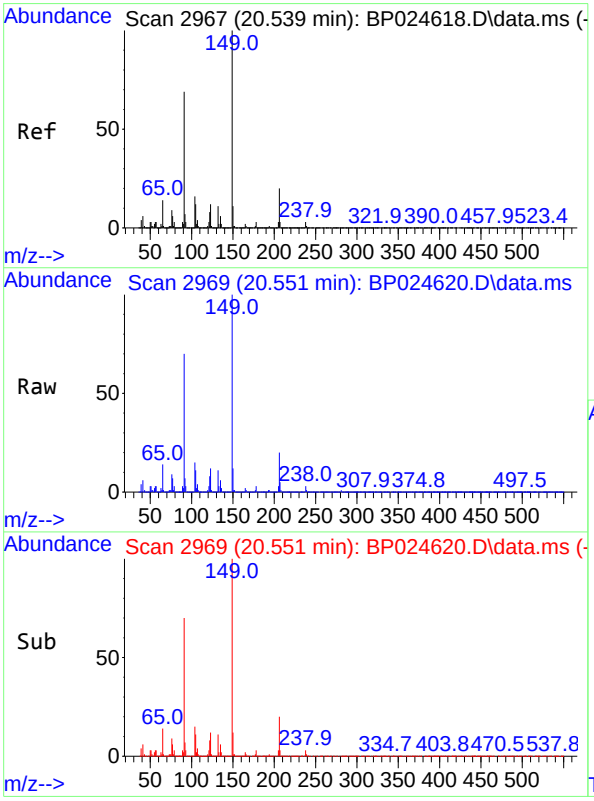
#79
Terphenyl-d14
Concen: 120.88 ng
RT: 19.822 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:244 Resp: 5119872

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	8.6	7.4	11.0

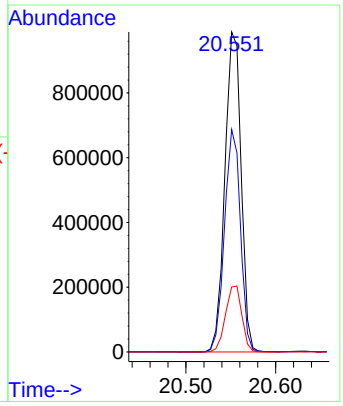


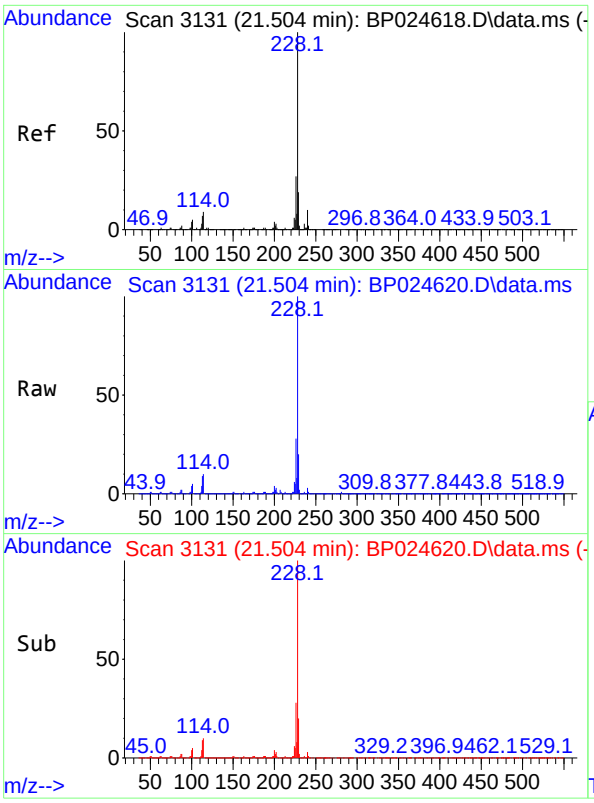


#80
Butylbenzylphthalate
Concen: 64.25 ng
RT: 20.551 min Scan# 2969
Delta R.T. 0.012 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:149 Resp: 1243403

Ion	Ratio	Lower	Upper
149	100		
91	69.5	55.4	83.0
206	20.3	16.2	24.2



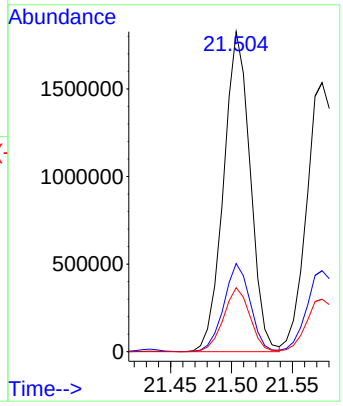


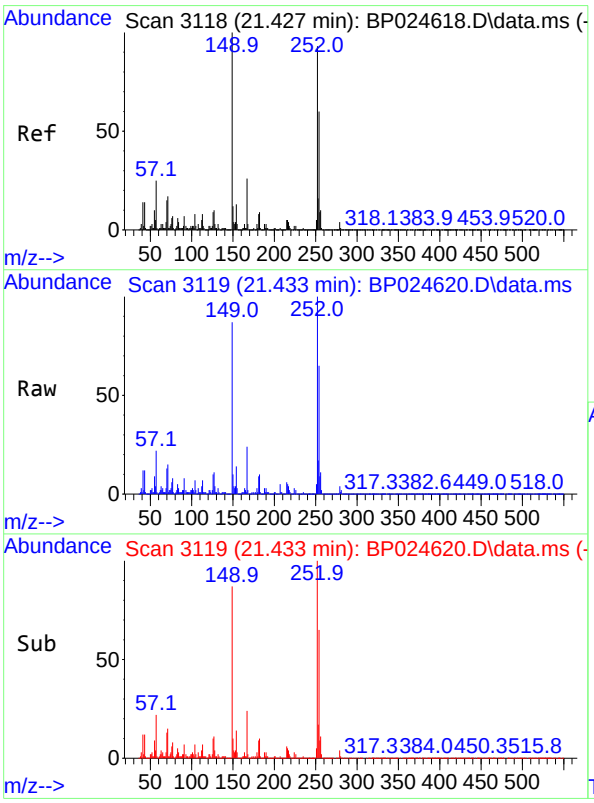
#81
Benzo(a)anthracene
Concen: 60.93 ng
RT: 21.504 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 2778689

Ion	Ratio	Lower	Upper
228	100		
226	27.5	21.4	32.0
229	20.0	15.5	23.3

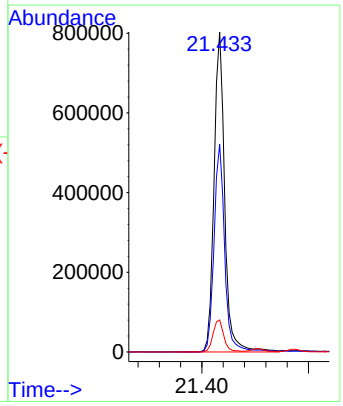


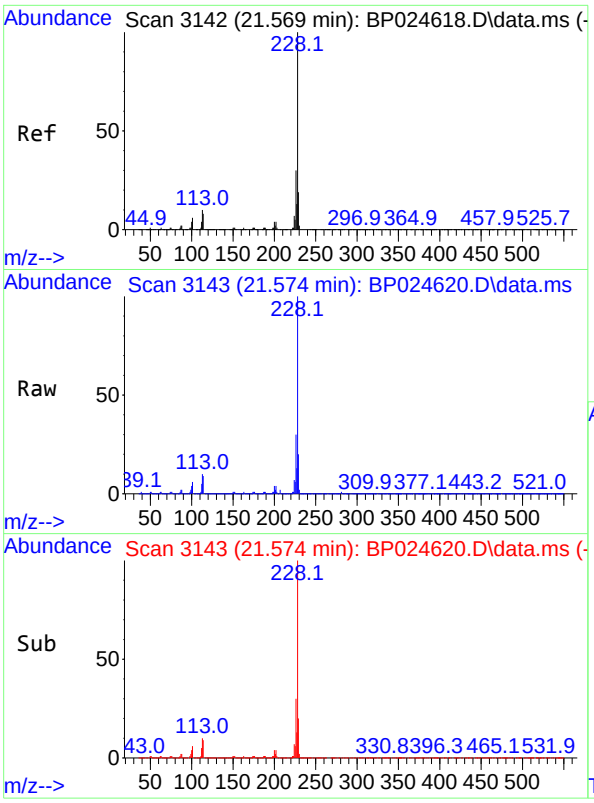


#82
3,3'-Dichlorobenzidine
Concen: 65.77 ng
RT: 21.433 min Scan# 3119
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:252 Resp: 1114122

Ion	Ratio	Lower	Upper
252	100		
254	64.9	51.8	77.6
126	10.0	7.7	11.5



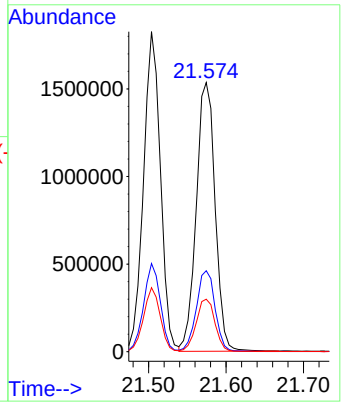


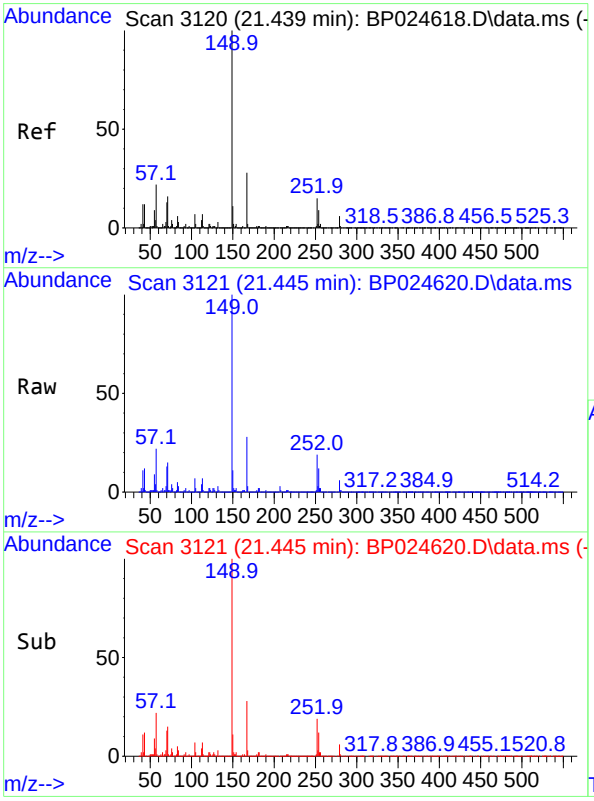
#83
Chrysene
Concen: 59.88 ng
RT: 21.574 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:228 Resp: 2588513

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.9	35.9
229	19.5	15.5	23.3

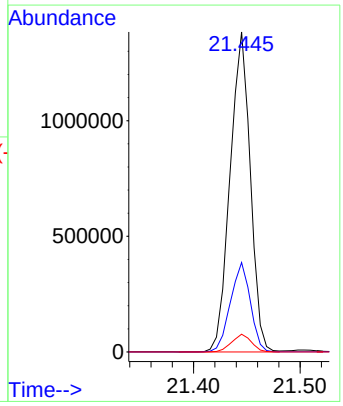


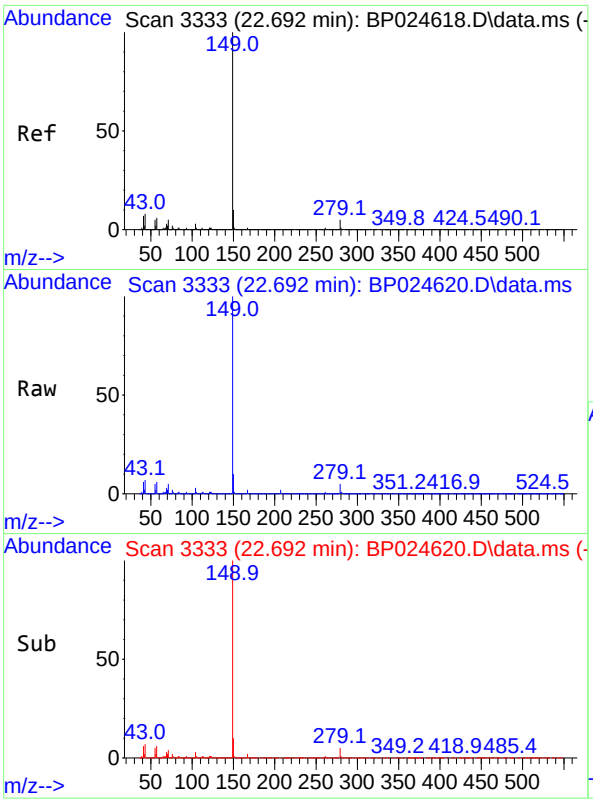


#84
Bis(2-ethylhexyl)phthalate
Concen: 64.05 ng
RT: 21.445 min Scan# 3121
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:149 Resp: 1822019

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.1	33.1
279	5.6	4.6	6.8



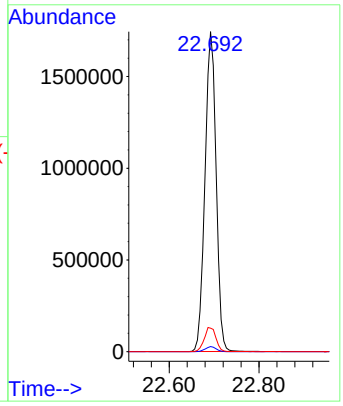


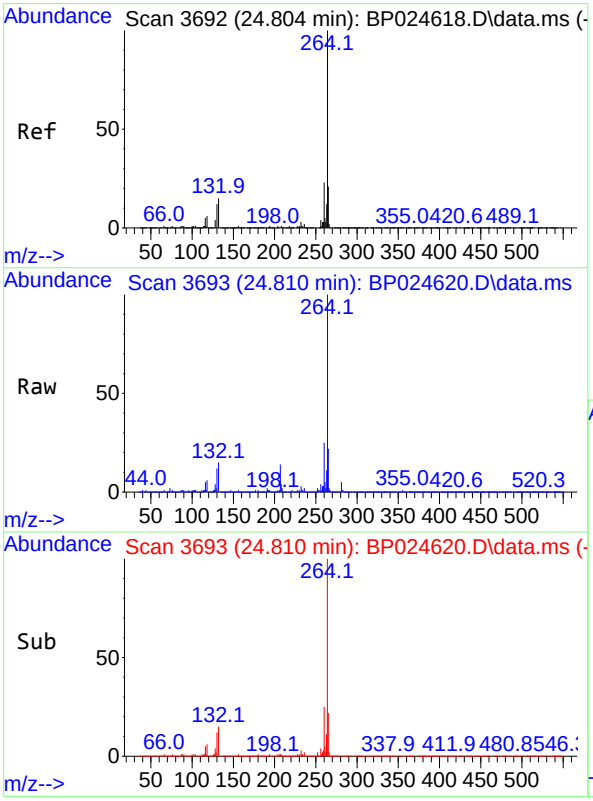
#85
Di-n-octyl phthalate
Concen: 64.47 ng
RT: 22.692 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:149 Resp: 2998832

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	7.9	6.3	9.5

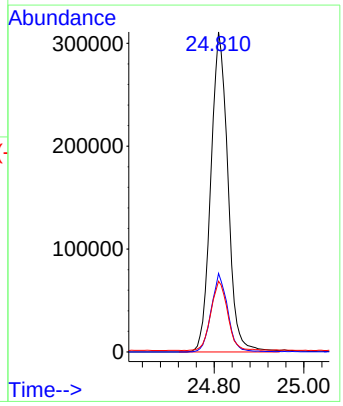


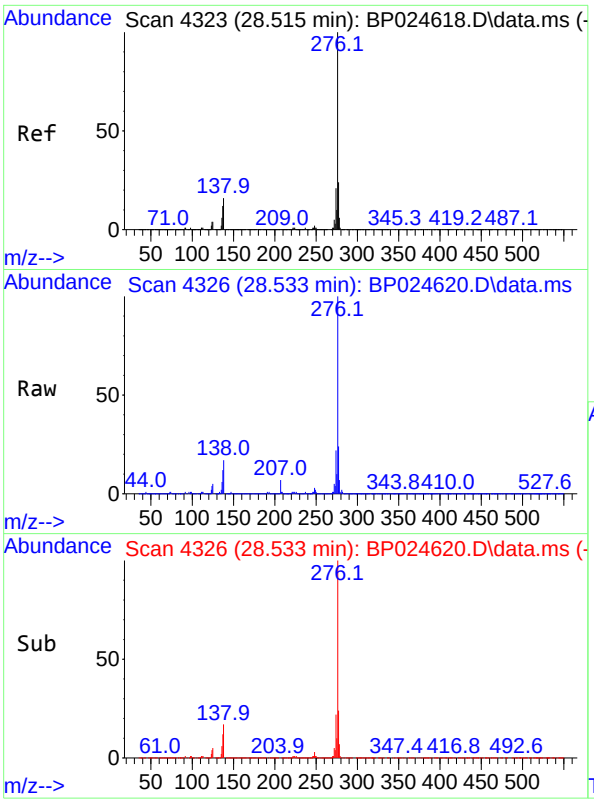


#86
Perylene-d12
Concen: 20.00 ng
RT: 24.810 min Scan# 3693
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:264 Resp: 822943

Ion	Ratio	Lower	Upper
264	100		
260	24.6	18.7	28.1
265	22.1	17.0	25.6



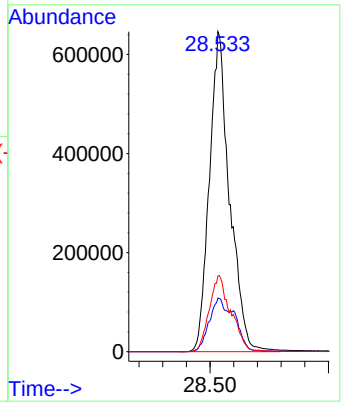


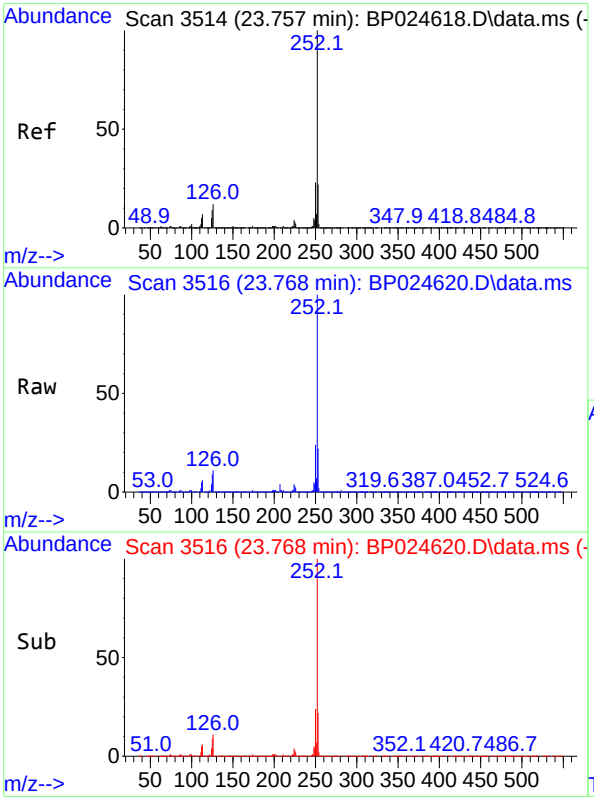
#87
Indeno(1,2,3-cd)pyrene
Concen: 63.64 ng
RT: 28.533 min Scan# 4
Delta R.T. 0.018 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:276 Resp: 3824922

Ion	Ratio	Lower	Upper
276	100		
138	14.4	11.2	16.8
277	25.5	15.7	23.5#

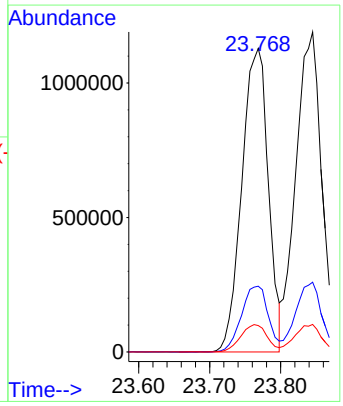


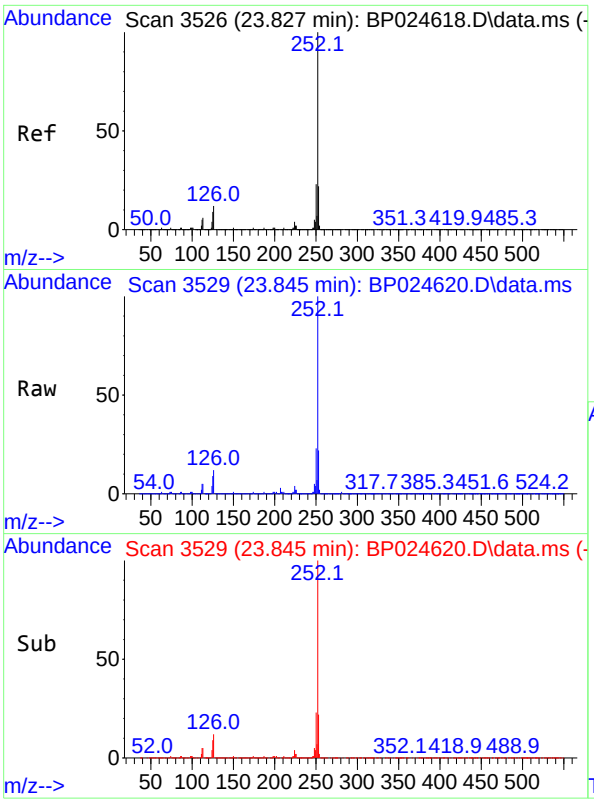


#88
Benzo(b)fluoranthene
Concen: 62.04 ng
RT: 23.768 min Scan# 3516
Delta R.T. 0.012 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:252 Resp: 2922103

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	8.7	7.5	11.3



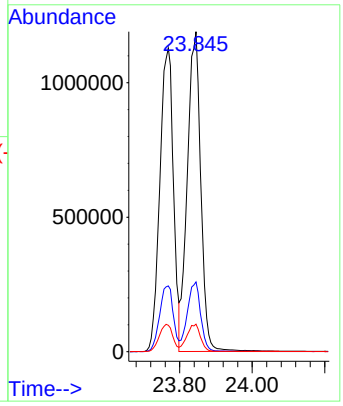


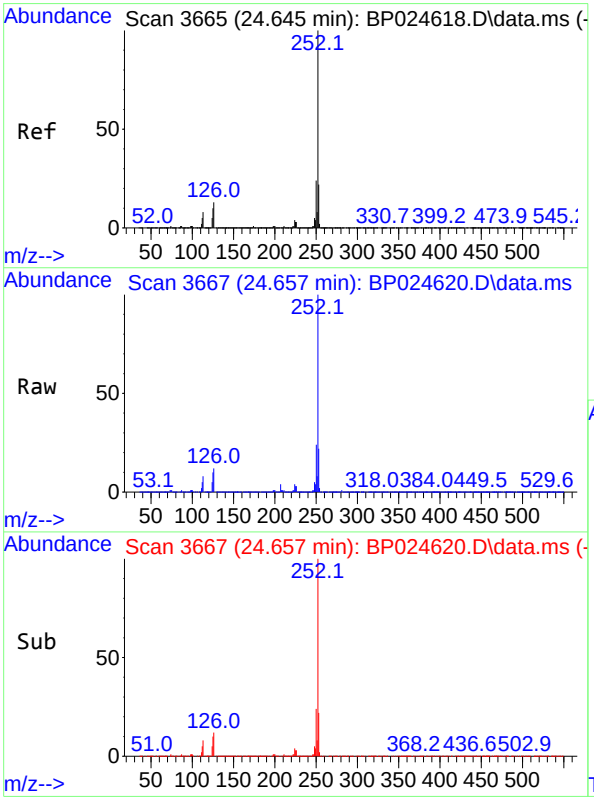
#89
Benzo(k)fluoranthene
Concen: 62.95 ng
RT: 23.845 min Scan# 3
Delta R.T. 0.018 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:252 Resp: 3055252

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	8.6	7.0	10.4

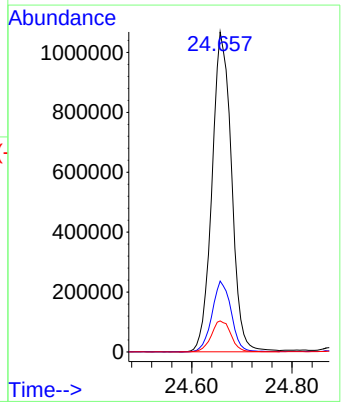


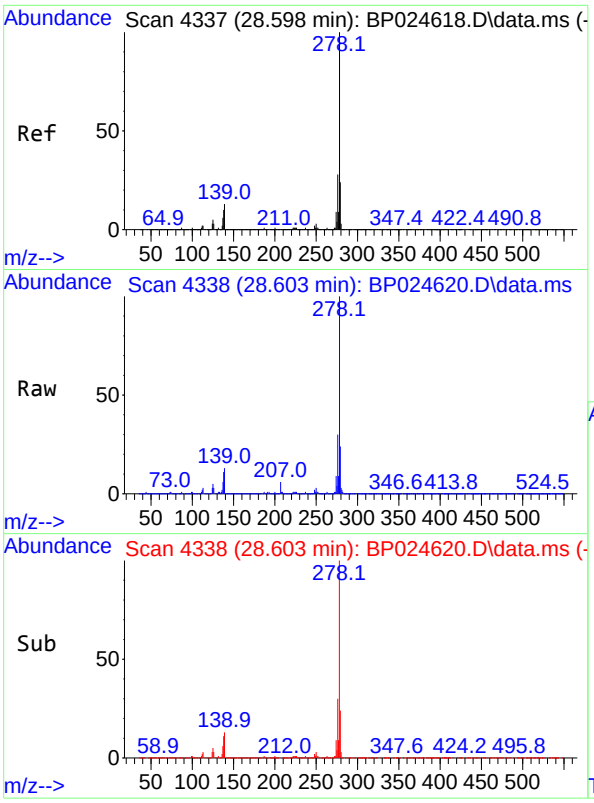


#90
Benzo(a)pyrene
Concen: 63.69 ng
RT: 24.657 min Scan# 3667
Delta R.T. 0.012 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:252 Resp: 2881508

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	9.7	8.1	12.1



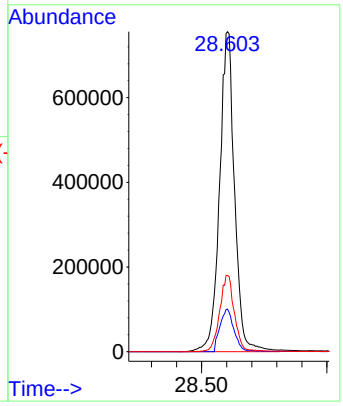


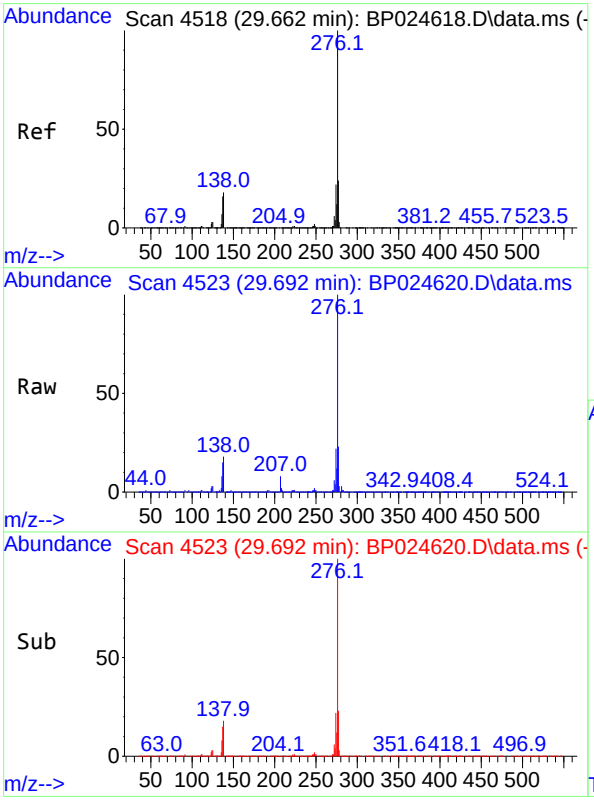
#91
Dibenzo(a,h)anthracene
Concen: 64.20 ng
RT: 28.603 min Scan# 4
Delta R.T. 0.006 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Instrument :
BNA_P
ClientSampleId :
SSTDICC060

Tgt Ion:278 Resp: 3137905

Ion	Ratio	Lower	Upper
278	100		
139	13.3	10.2	15.4
279	23.8	19.0	28.4

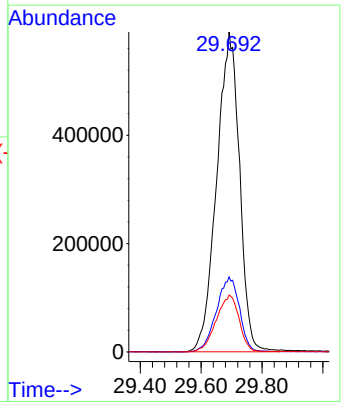




#92
Benzo(g,h,i)perylene
Concen: 63.07 ng
RT: 29.692 min Scan# 4523
Delta R.T. 0.029 min
Lab File: BP024620.D
Acq: 13 May 2025 14:45

Tgt Ion:276 Resp: 3065416

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.0	28.4
138	17.8	14.4	21.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024621.D
Acq On : 13 May 2025 15:26
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:10:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.663	152	134481	20.00	ng		0.00
21) Naphthalene-d8	10.434	136	584325	20.00	ng		0.00
39) Acenaphthene-d10	14.298	164	373575	20.00	ng		0.00
64) Phenanthrene-d10	17.104	188	713479	20.00	ng		0.00
76) Chrysene-d12	21.516	240	765954	20.00	ng		0.00
86) Perylene-d12	24.804	264	877352	20.00	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.287	112	1283582	163.25	ng		0.00
7) Phenol-d6	6.858	99	1670035	166.42	ng		0.00
23) Nitrobenzene-d5	8.822	82	1840183	159.12	ng		0.01
42) 2,4,6-Tribromophenol	15.828	330	1032638	163.05	ng		0.02
45) 2-Fluorobiphenyl	12.910	172	4438179	155.65	ng		0.00
79) Terphenyl-d14	19.816	244	7152255	160.11	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.228	88	275790	74.70	ng		99
3) Pyridine	3.622	79	679364	82.98	ng		98
4) n-Nitrosodimethylamine	3.534	42	289012	79.96	ng		100
6) Aniline	7.005	93	1075238	82.99	ng		100
8) 2-Chlorophenol	7.240	128	740005	82.91	ng		99
9) Benzaldehyde	6.822	77	412028	63.54	ng		100
10) Phenol	6.887	94	859122	82.95	ng		100
11) bis(2-Chloroethyl)ether	7.099	93	670572	78.79	ng		100
12) 1,3-Dichlorobenzene	7.552	146	795953	77.51	ng		100
13) 1,4-Dichlorobenzene	7.699	146	802182	77.67	ng		98
14) 1,2-Dichlorobenzene	8.010	146	779316	77.43	ng		99
15) Benzyl Alcohol	7.910	79	664684	87.16	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.187	45	782240	76.75	ng		98
17) 2-Methylphenol	8.110	107	620901	83.58	ng		99
18) Hexachloroethane	8.728	117	306812	77.52	ng		97
19) n-Nitroso-di-n-propyla...	8.469	70	551845	79.50	ng		98
20) 3+4-Methylphenols	8.440	107	852078	84.32	ng		99
22) Acetophenone	8.481	105	1147610	78.62	ng	#	99
24) Nitrobenzene	8.857	77	804153	79.02	ng		98
25) Isophorone	9.381	82	1593235	79.42	ng		100
26) 2-Nitrophenol	9.557	139	442185	88.67	ng		98
27) 2,4-Dimethylphenol	9.628	122	722439	82.17	ng		100
28) bis(2-Chloroethoxy)met...	9.857	93	946615	78.98	ng		99
29) 2,4-Dichlorophenol	10.099	162	721701	84.70	ng		97
30) 1,2,4-Trichlorobenzene	10.299	180	755529	78.69	ng		98
31) Naphthalene	10.487	128	2354789	77.77	ng		100
32) Benzoic acid	9.828	122	525308	80.15	ng		99
33) 4-Chloroaniline	10.599	127	1033865	84.61	ng		99
34) Hexachlorobutadiene	10.769	225	481140	77.35	ng		97
35) Caprolactam	11.416	113	257252	83.50	ng		96
36) 4-Chloro-3-methylphenol	11.734	107	838983	80.74	ng		99
37) 2-Methylnaphthalene	12.093	142	1529445	78.01	ng		100
38) 1-Methylnaphthalene	12.322	142	1613775	76.92	ng		99
40) 1,2,4,5-Tetrachloroben...	12.469	216	875750	80.73	ng		100
41) Hexachlorocyclopentadiene	12.446	237	628436	95.54	ng		97
43) 2,4,6-Trichlorophenol	12.716	196	601332	85.58	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024621.D
Acq On : 13 May 2025 15:26
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 16:10:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	657399	84.05	ng	97
46) 1,1'-Biphenyl	13.122	154	2175624	78.79	ng	100
47) 2-Chloronaphthalene	13.163	162	1662979	78.99	ng	99
48) 2-Nitroaniline	13.375	65	512458	82.22	ng	97
49) Acenaphthylene	14.016	152	2773742	78.73	ng	99
50) Dimethylphthalate	13.763	163	2182359	76.64	ng	100
51) 2,6-Dinitrotoluene	13.887	165	476606	79.26	ng	97
52) Acenaphthene	14.363	154	1572103	77.62	ng	99
53) 3-Nitroaniline	14.222	138	522849	85.15	ng	100
54) 2,4-Dinitrophenol	14.428	184	300458	79.29	ng	98
55) Dibenzofuran	14.704	168	2477374	76.68	ng	99
56) 4-Nitrophenol	14.557	139	409954	77.27	ng	98
57) 2,4-Dinitrotoluene	14.681	165	678287	80.01	ng	97
58) Fluorene	15.363	166	2003709	76.06	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.945	232	588947	81.17	ng	98
60) Diethylphthalate	15.145	149	2193488	76.22	ng	99
61) 4-Chlorophenyl-phenyle...	15.363	204	997863	75.96	ng	99
62) 4-Nitroaniline	15.404	138	509582	85.24	ng	99
63) Azobenzene	15.663	77	1858146	75.47	ng	99
65) 4,6-Dinitro-2-methylph...	15.469	198	401011	87.01	ng	98
66) n-Nitrosodiphenylamine	15.587	169	1711679	78.10	ng	99
67) 4-Bromophenyl-phenylether	16.281	248	684619	81.43	ng	98
68) Hexachlorobenzene	16.398	284	856547	80.18	ng	99
69) Atrazine	16.575	200	645877	80.42	ng	99
70) Pentachlorophenol	16.751	266	548492	91.41	ng	99
71) Phenanthrene	17.145	178	3091665	77.95	ng	99
72) Anthracene	17.239	178	3161669	79.23	ng	99
73) Carbazole	17.522	167	2892236	80.08	ng	99
74) Di-n-butylphthalate	18.110	149	3747927	80.68	ng	99
75) Fluoranthene	19.228	202	3629085	78.27	ng	99
77) Benzidine	19.422	184	1678507	79.83	ng	100
78) Pyrene	19.604	202	3747276	81.65	ng	99
80) Butylbenzylphthalate	20.545	149	1741954	85.34	ng	98
81) Benzo(a)anthracene	21.498	228	3829787	79.63	ng	99
82) 3,3'-Dichlorobenzidine	21.422	252	1575691	88.21	ng	100
83) Chrysene	21.569	228	3615014	79.29	ng	99
84) Bis(2-ethylhexyl)phtha...	21.439	149	2577445	85.91	ng	99
85) Di-n-octyl phthalate	22.686	149	4341653	88.50	ng	99
87) Indeno(1,2,3-cd)pyrene	28.515	276	5243999m	81.85	ng	
88) Benzo(b)fluoranthene	23.768	252	4173798	83.11	ng	99
89) Benzo(k)fluoranthene	23.833	252	4160268	80.40	ng	100
90) Benzo(a)pyrene	24.645	252	3988360	82.69	ng	99
91) Dibenzo(a,h)anthracene	28.598	278	4338518	83.26	ng	99
92) Benzo(g,h,i)perylene	29.680	276	4253459	82.08	ng	99

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

ICAL Form

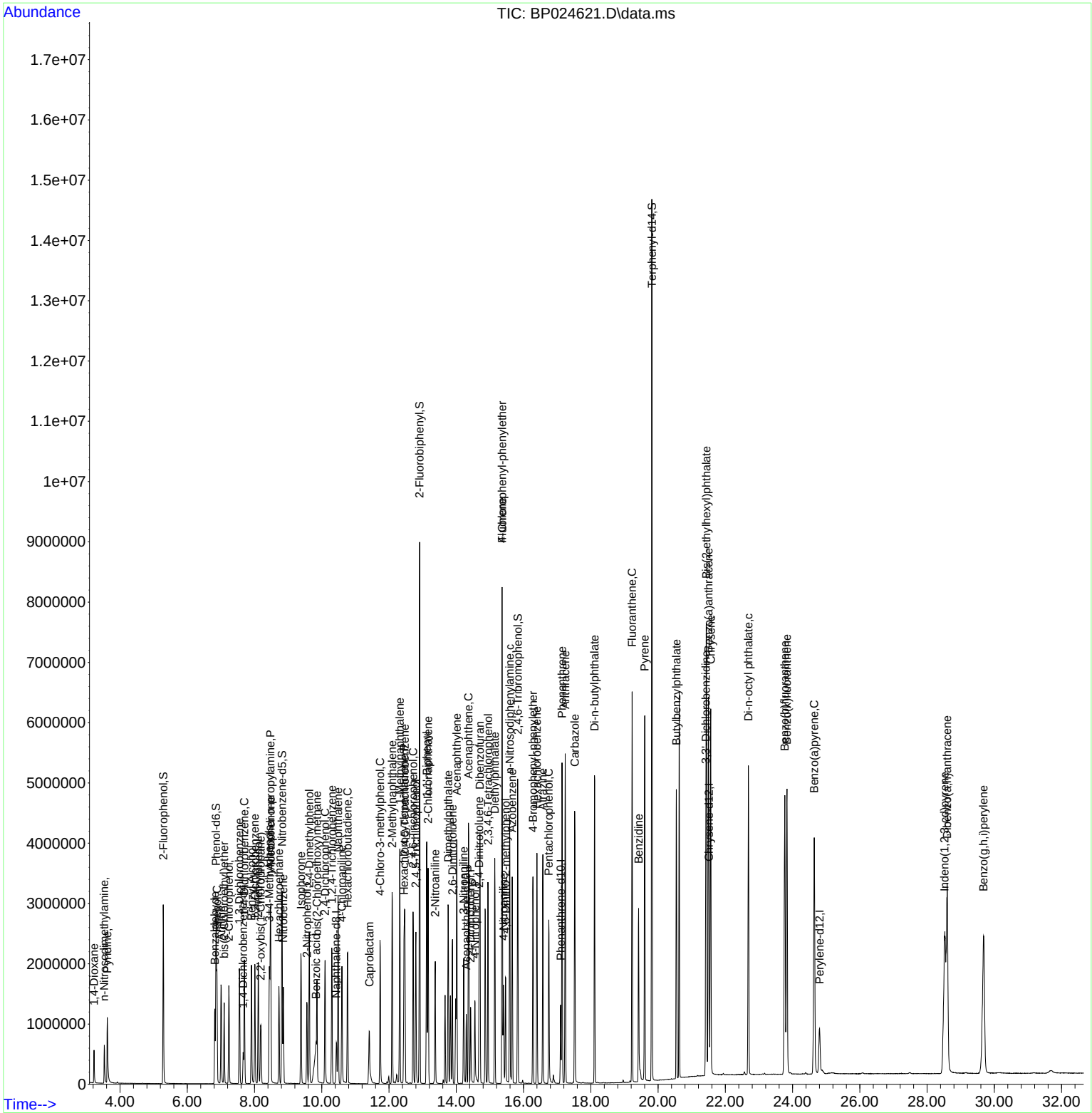
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024621.D
Acq On : 13 May 2025 15:26
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

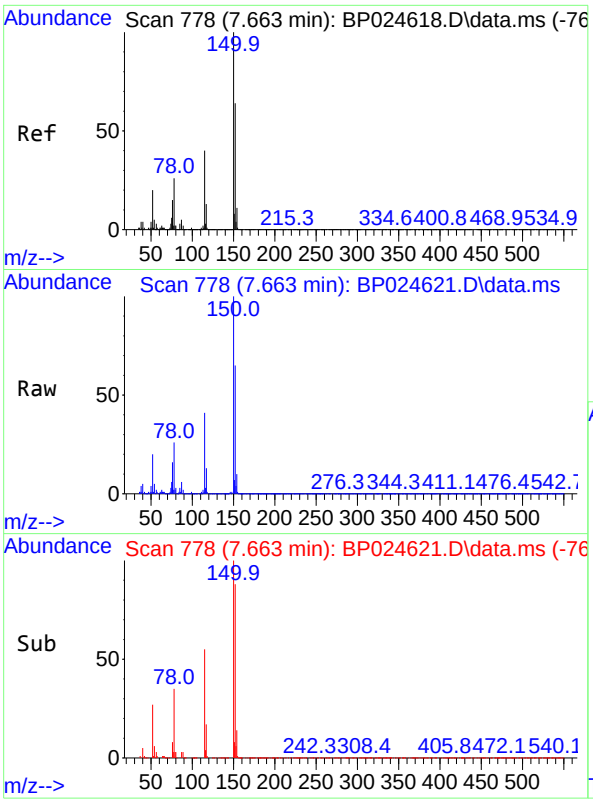
Quant Time: May 13 16:10:02 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

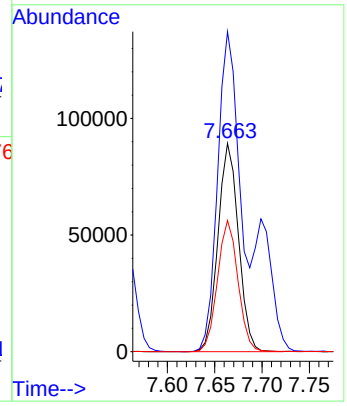




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.663 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:152 Resp: 13448

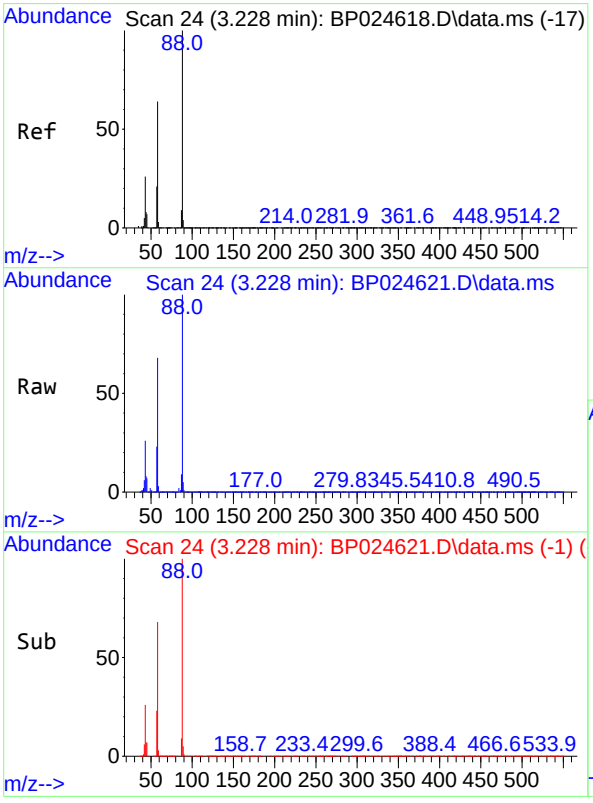
Ion	Ratio	Lower	Upper
152	100		
150	153.6	125.9	188.9
115	63.0	50.1	75.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

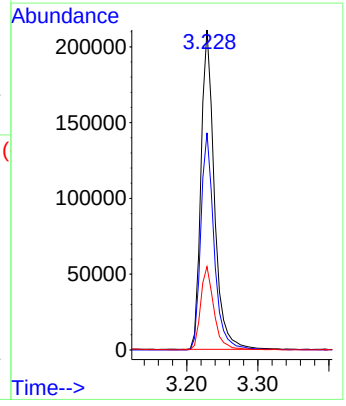
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

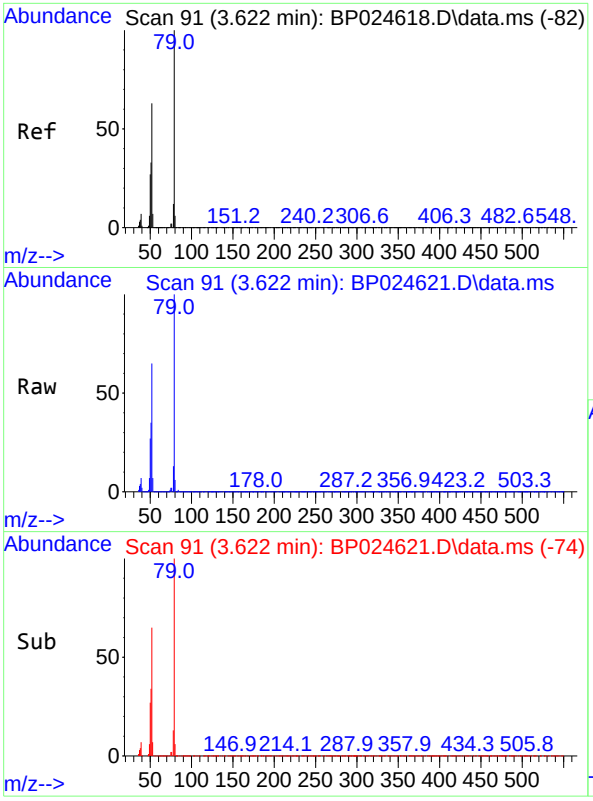


#2
1,4-Dioxane
Concen: 74.70 ng
RT: 3.228 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 88 Resp: 275790

Ion	Ratio	Lower	Upper
88	100		
58	68.0	54.0	81.0
43	26.1	21.4	32.0

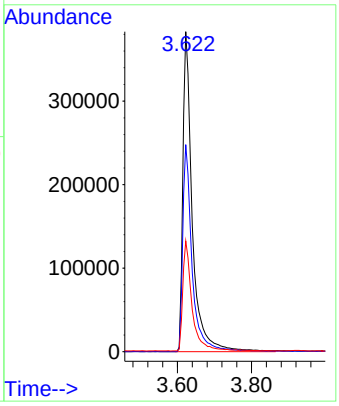




#3
Pyridine
Concen: 82.98 ng
RT: 3.622 min Scan# 91
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 79 Resp: 67936

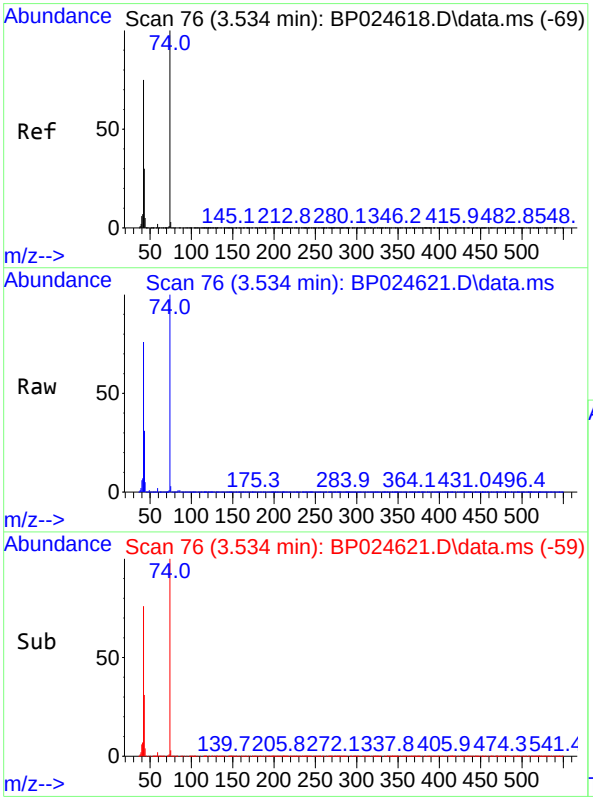
Ion	Ratio	Lower	Upper
79	100		
52	64.7	50.2	75.2
51	34.6	26.8	40.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

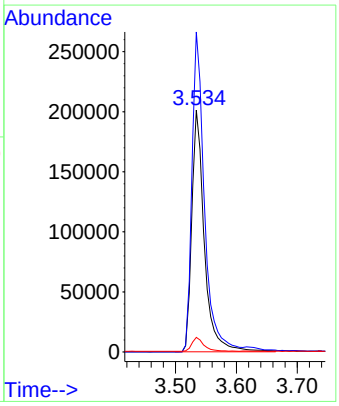
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

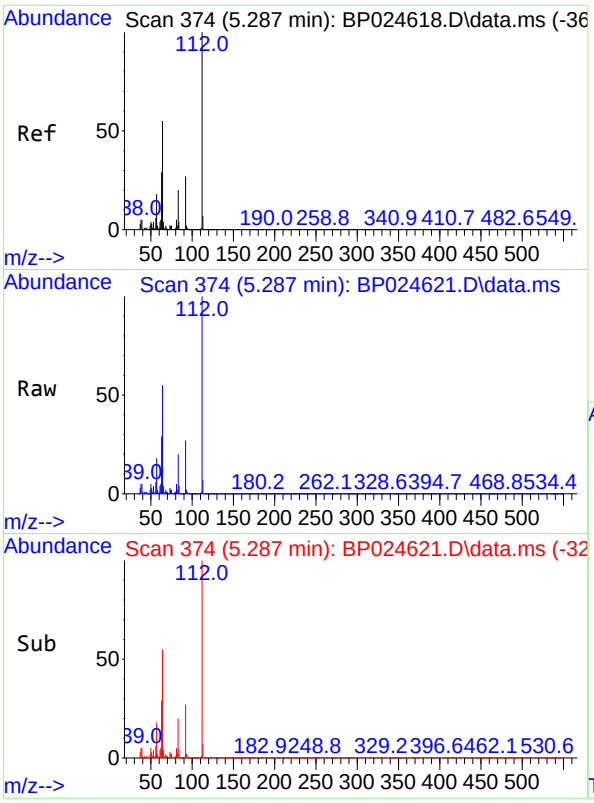


#4
n-Nitrosodimethylamine
Concen: 79.96 ng
RT: 3.534 min Scan# 76
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 42 Resp: 289012

Ion	Ratio	Lower	Upper
42	100		
74	132.2	106.2	159.2
44	6.0	5.4	8.2

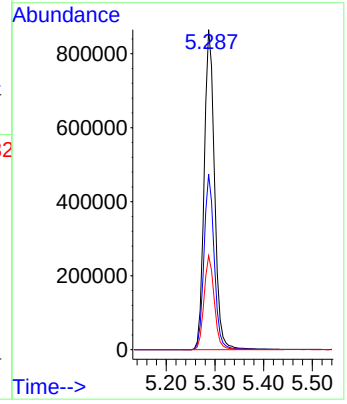




#5
2-Fluorophenol
Concen: 163.25 ng
RT: 5.287 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:112 Resp: 128358

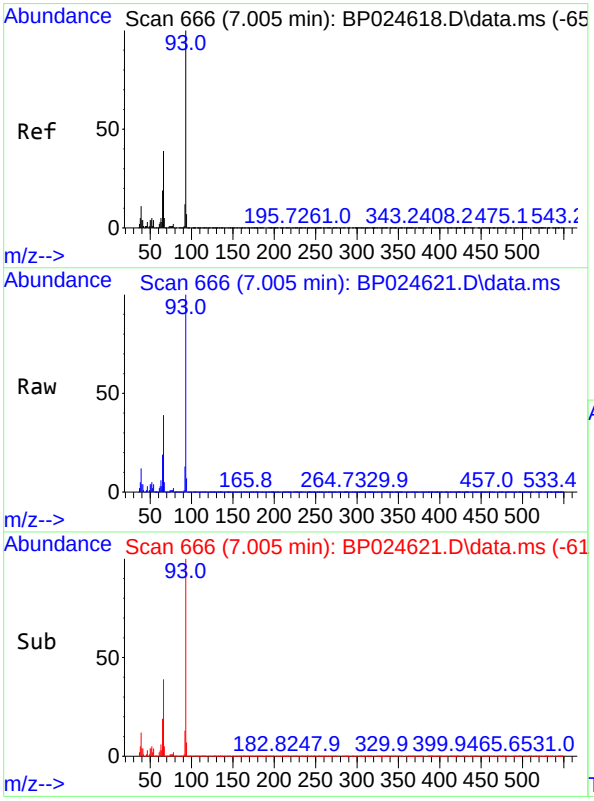
Ion	Ratio	Lower	Upper
112	100		
64	54.8	44.1	66.1
63	29.4	23.5	35.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

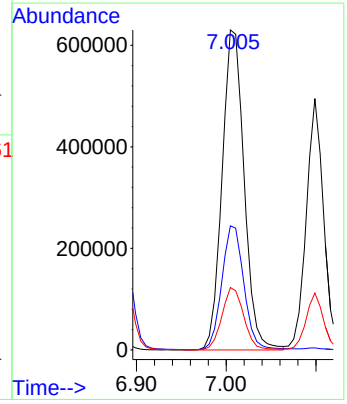
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

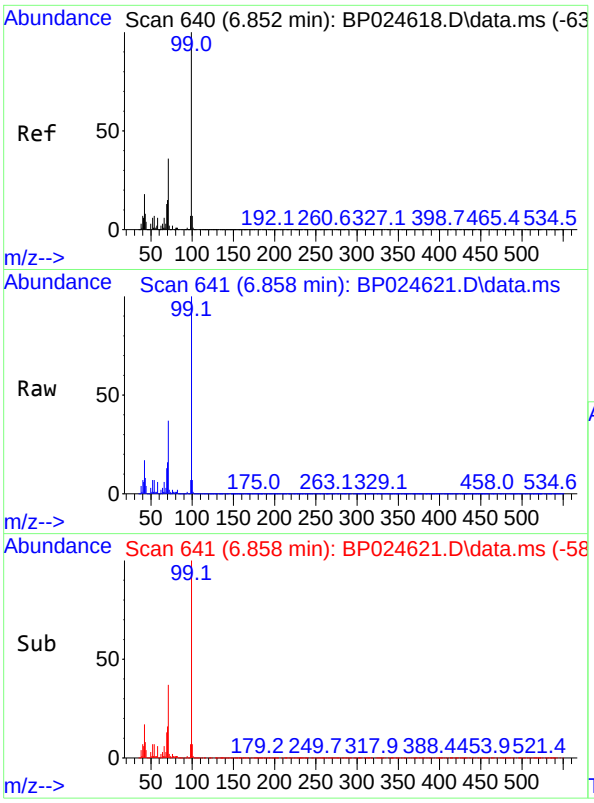


#6
Aniline
Concen: 82.99 ng
RT: 7.005 min Scan# 666
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 93 Resp: 1075238

Ion	Ratio	Lower	Upper
93	100		
66	38.8	31.0	46.6
65	19.5	15.5	23.3

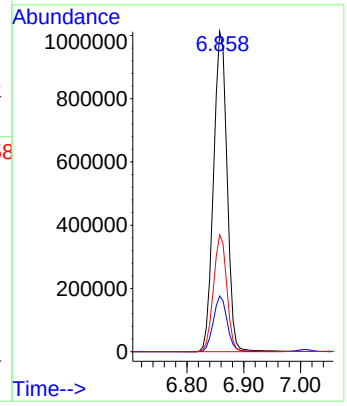




#7
Phenol-d6
Concen: 166.42 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 99 Resp: 167003

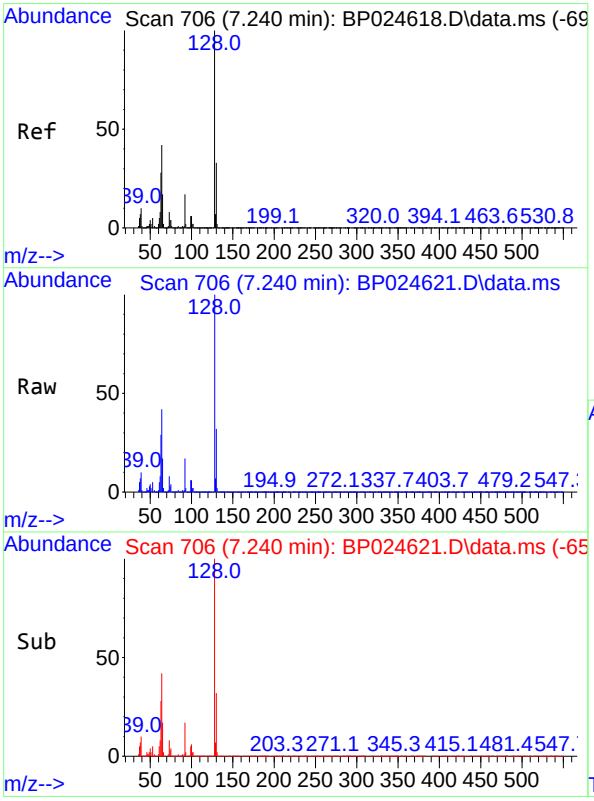
Ion	Ratio	Lower	Upper
99	100		
42	17.4	14.4	21.6
71	36.6	29.2	43.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

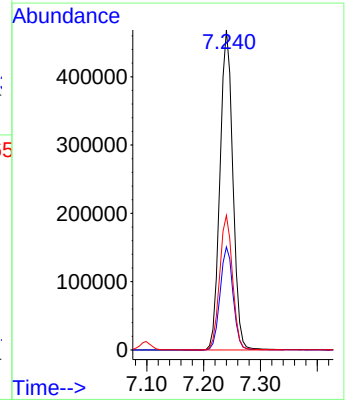
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

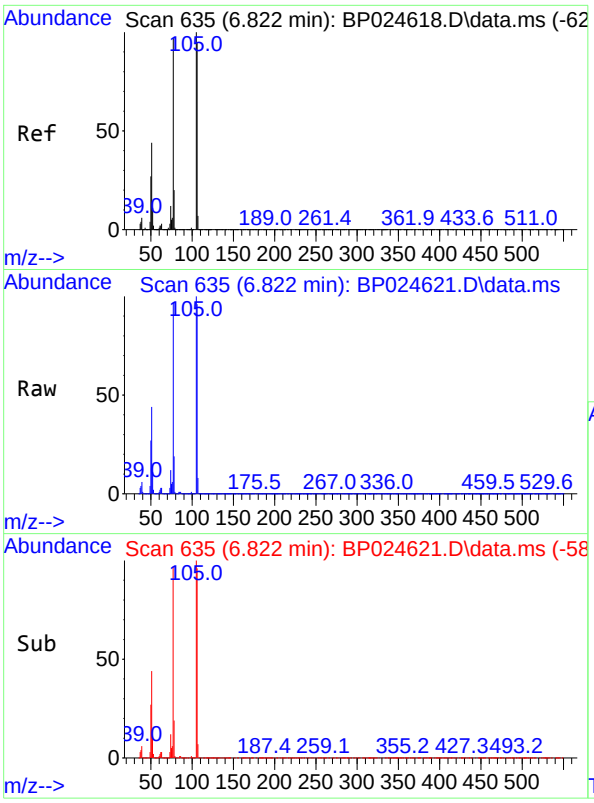


#8
2-Chlorophenol
Concen: 82.91 ng
RT: 7.240 min Scan# 706
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:128 Resp: 740005

Ion	Ratio	Lower	Upper
128	100		
130	32.2	13.0	53.0
64	42.1	22.3	62.3

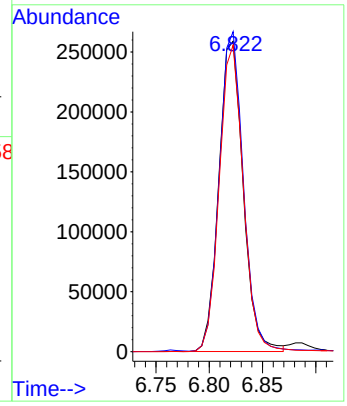




#9
Benzaldehyde
Concen: 63.54 ng
RT: 6.822 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 77 Resp: 41202

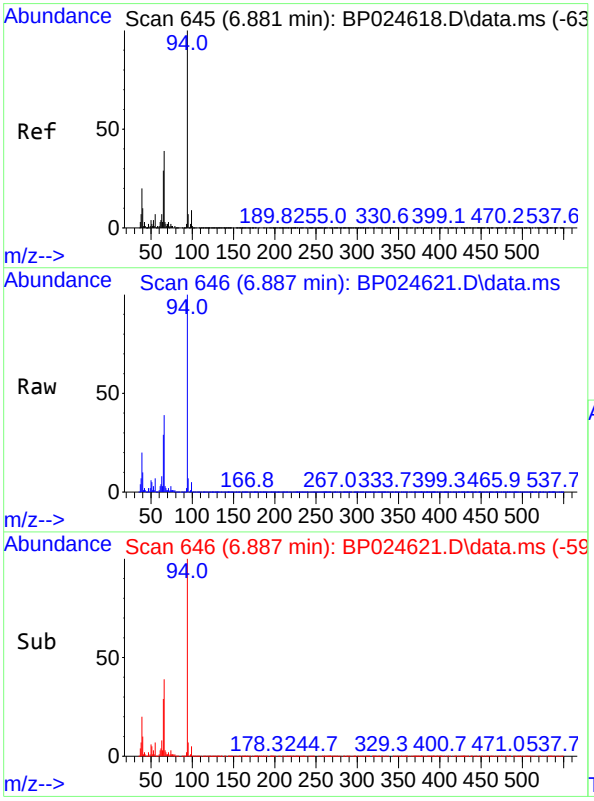
Ion	Ratio	Lower	Upper
77	100		
105	103.1	83.3	123.3
106	98.7	78.0	118.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

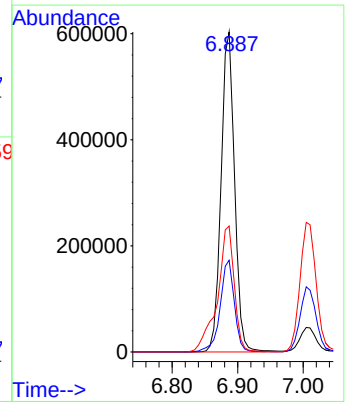
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

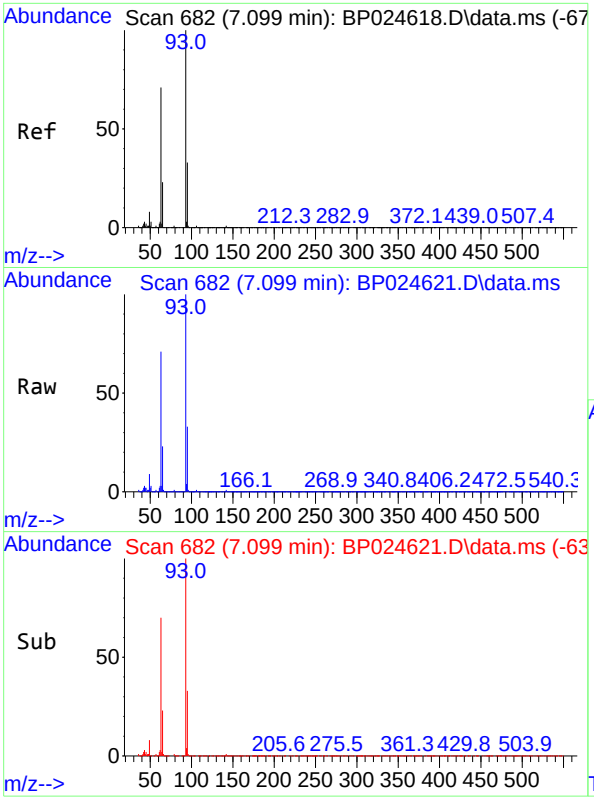


#10
Phenol
Concen: 82.95 ng
RT: 6.887 min Scan# 646
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 94 Resp: 859122

Ion	Ratio	Lower	Upper
94	100		
65	28.6	8.7	48.7
66	39.3	19.4	59.4

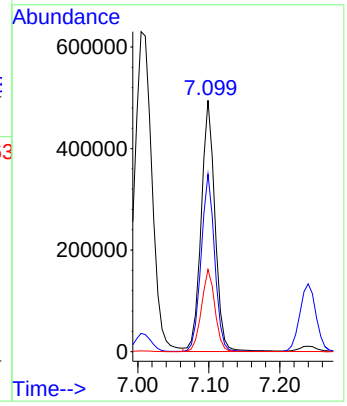




#11
bis(2-Chloroethyl)ether
Concen: 78.79 ng
RT: 7.099 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 93 Resp: 67057

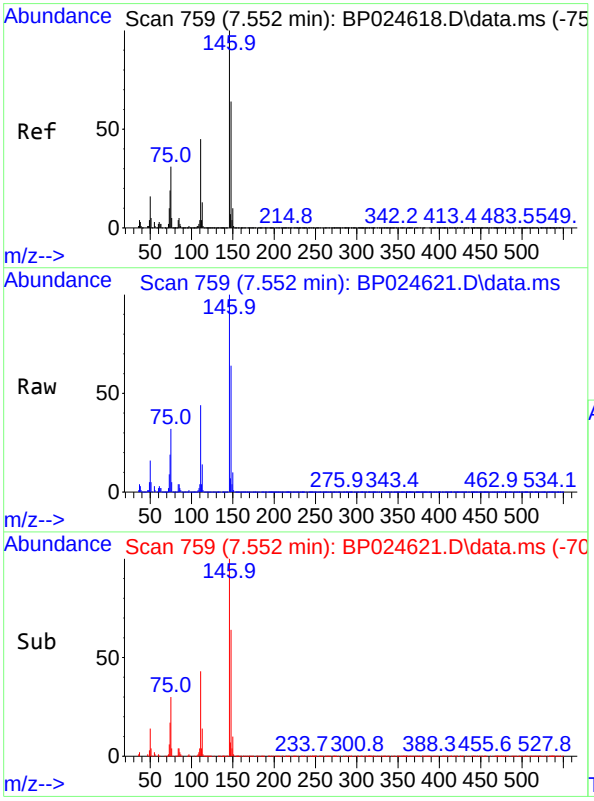
Ion	Ratio	Lower	Upper
93	100		
63	70.6	50.6	90.6
95	32.7	12.9	52.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

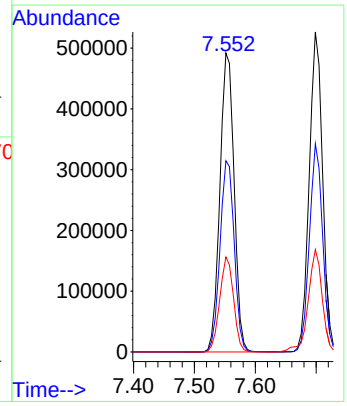
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

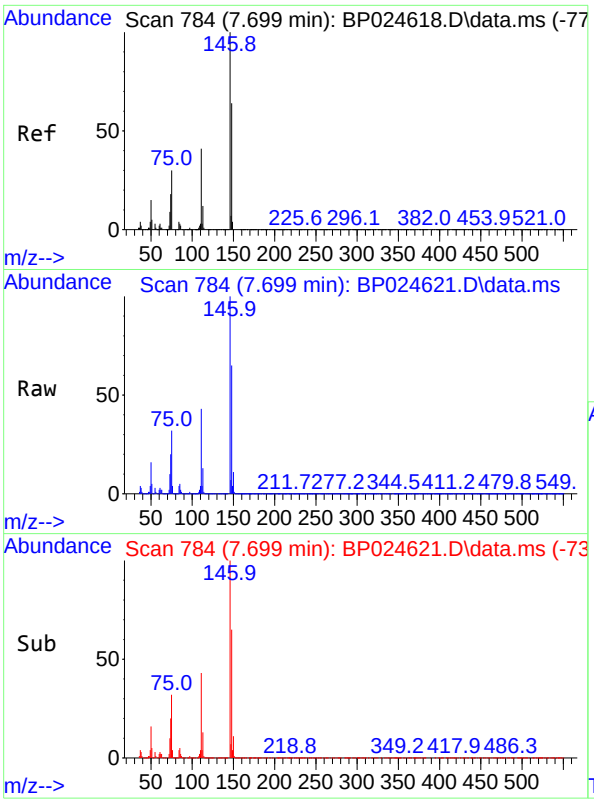


#12
1,3-Dichlorobenzene
Concen: 77.51 ng
RT: 7.552 min Scan# 759
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:146 Resp: 795953

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.4	77.2
75	31.8	25.2	37.8

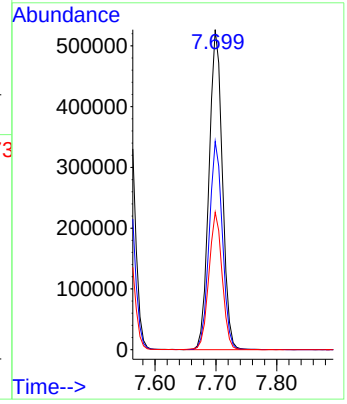




#13
1,4-Dichlorobenzene
Concen: 77.67 ng
RT: 7.699 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:146 Resp: 80218

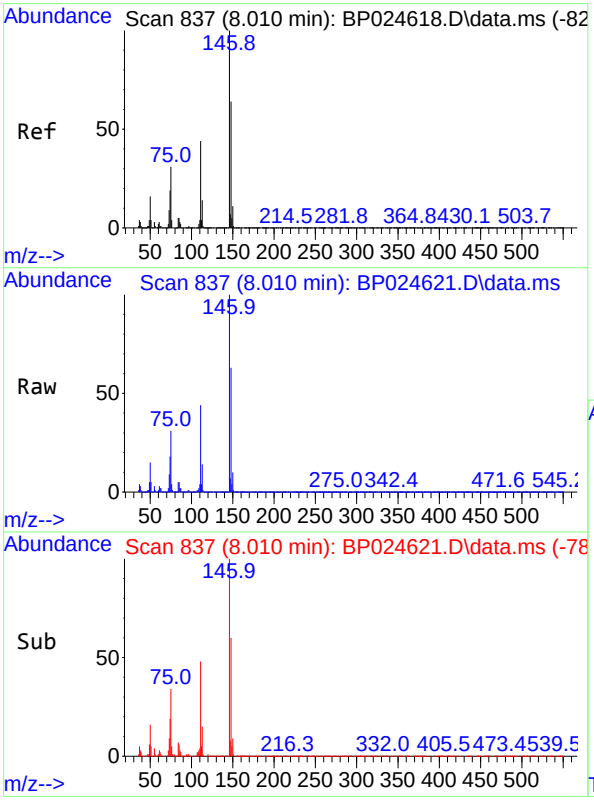
Ion	Ratio	Lower	Upper
146	100		
148	65.1	51.0	76.6
111	43.0	33.0	49.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

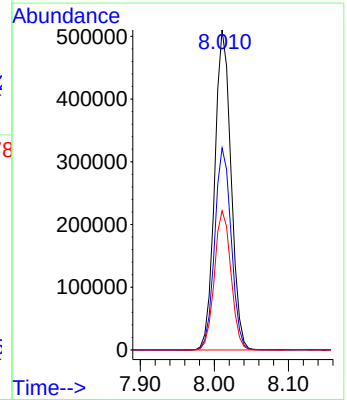
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

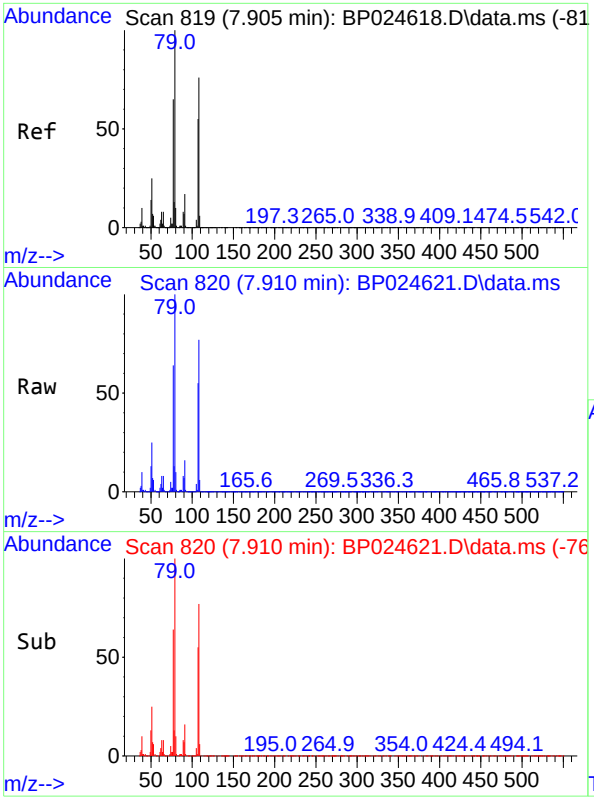


#14
1,2-Dichlorobenzene
Concen: 77.43 ng
RT: 8.010 min Scan# 837
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:146 Resp: 779316

Ion	Ratio	Lower	Upper
146	100		
148	63.2	51.0	76.4
111	43.5	35.2	52.8





#15
Benzyl Alcohol
Concen: 87.16 ng
RT: 7.910 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

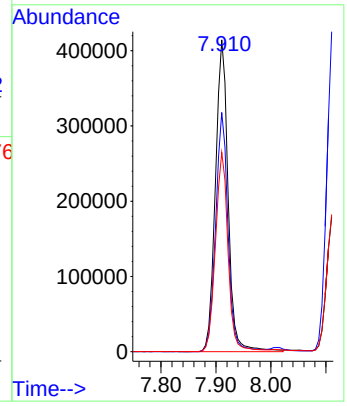
Tgt Ion: 79 Resp: 66468

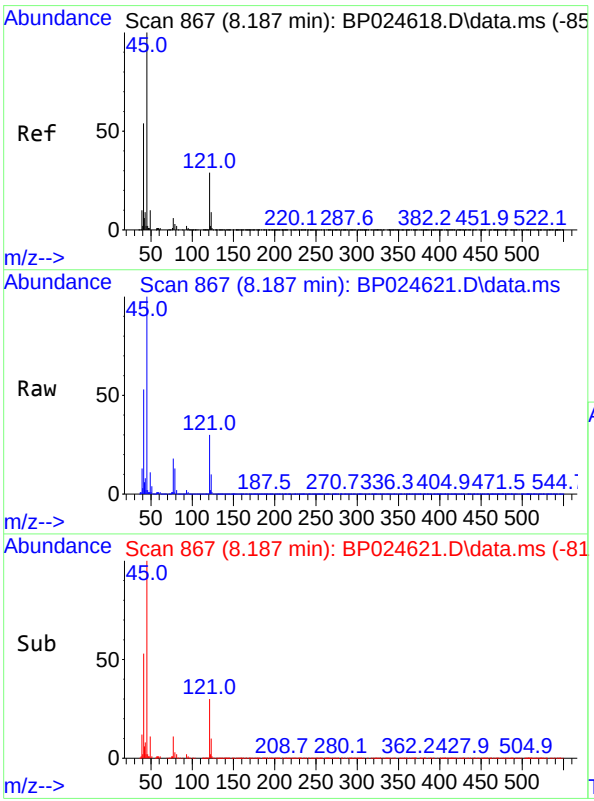
Ion	Ratio	Lower	Upper
79	100		
108	76.7	60.8	91.2
77	63.9	51.9	77.9

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

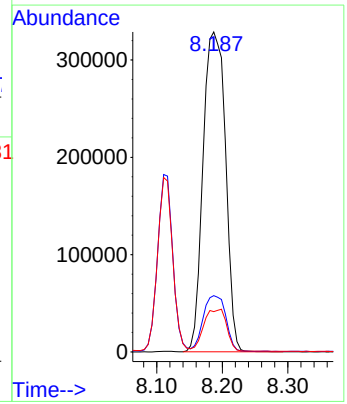


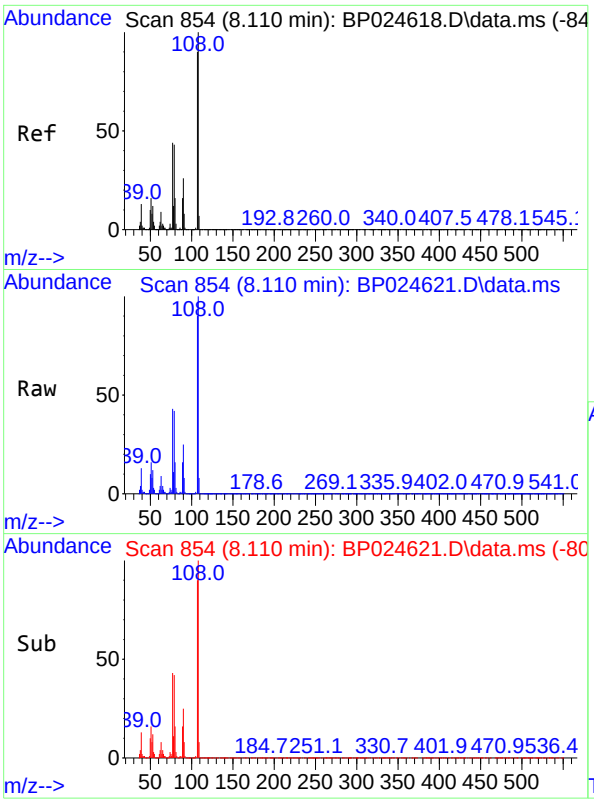


#16
2,2'-oxybis(1-Chloropropane)
Concen: 76.75 ng
RT: 8.187 min Scan# 867
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 45 Resp: 782240

Ion	Ratio	Lower	Upper
45	100		
77	17.6	0.0	37.7
79	12.6	0.0	34.0

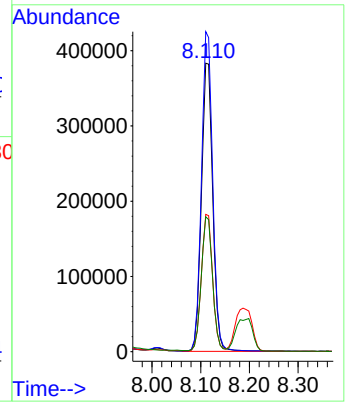




#17
2-Methylphenol
Concen: 83.58 ng
RT: 8.110 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:107 Resp: 62090

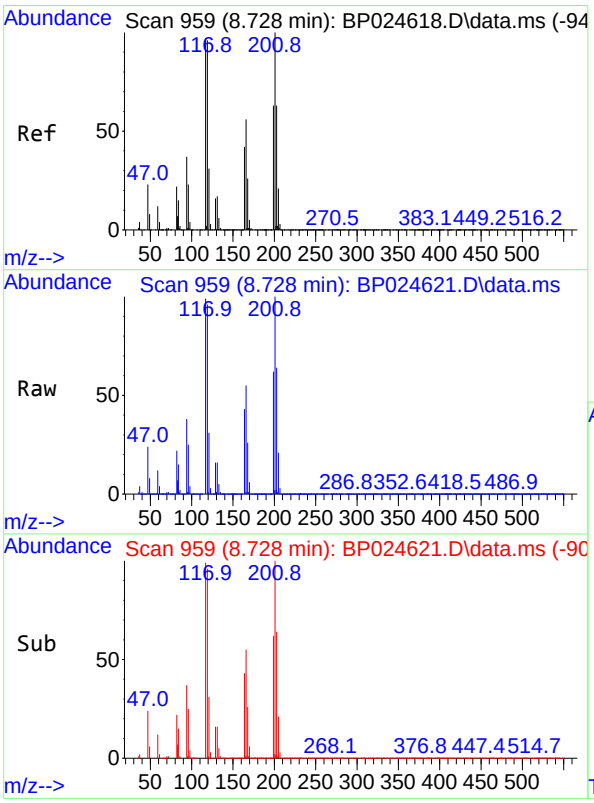
Ion	Ratio	Lower	Upper
107	100		
108	110.9	88.9	133.3
77	47.6	39.0	58.6
79	46.7	38.4	57.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

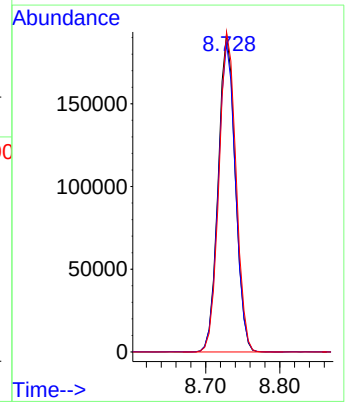
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

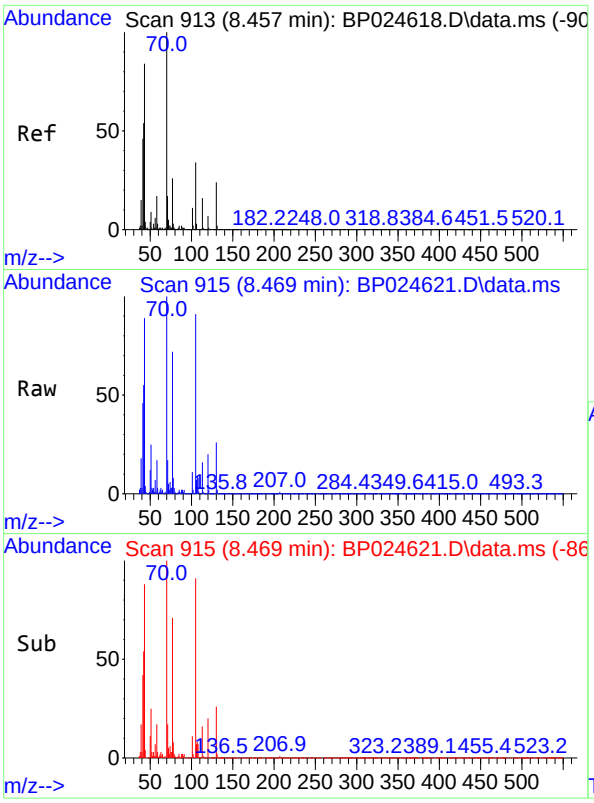


#18
Hexachloroethane
Concen: 77.52 ng
RT: 8.728 min Scan# 959
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:117 Resp: 306812

Ion	Ratio	Lower	Upper
117	100		
119	96.9	79.4	119.0
201	100.5	82.7	124.1

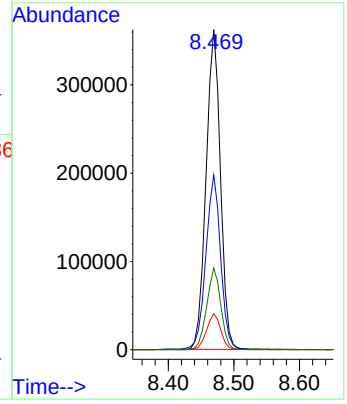




#19
n-Nitroso-di-n-propylamine
Concen: 79.50 ng
RT: 8.469 min Scan# 9
Delta R.T. 0.012 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 70 Resp: 55184

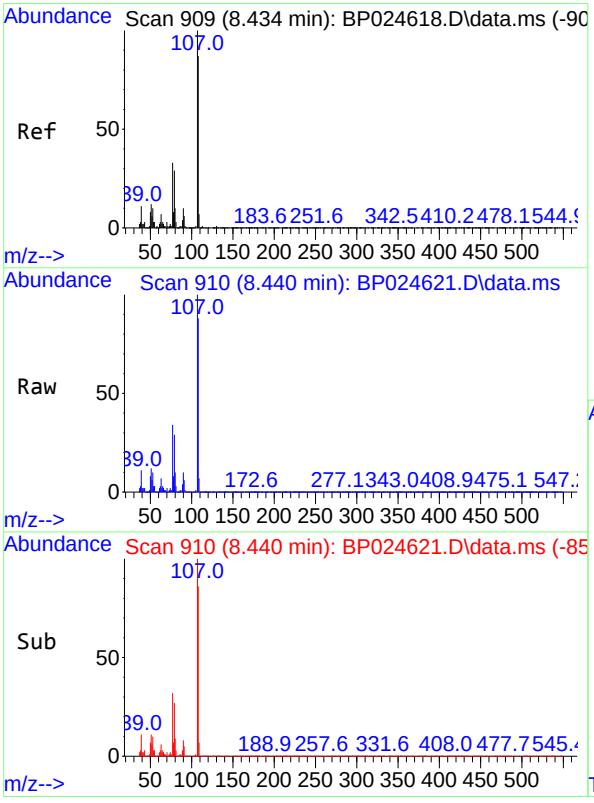
Ion	Ratio	Lower	Upper
70	100		
42	54.6	43.0	64.6
101	11.2	8.7	13.1
130	25.6	19.4	29.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

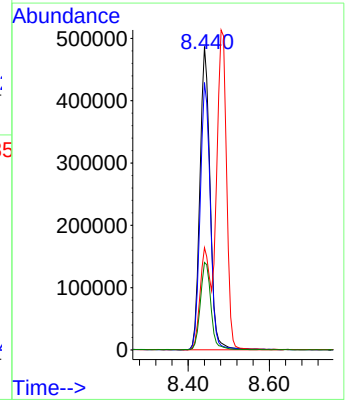
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

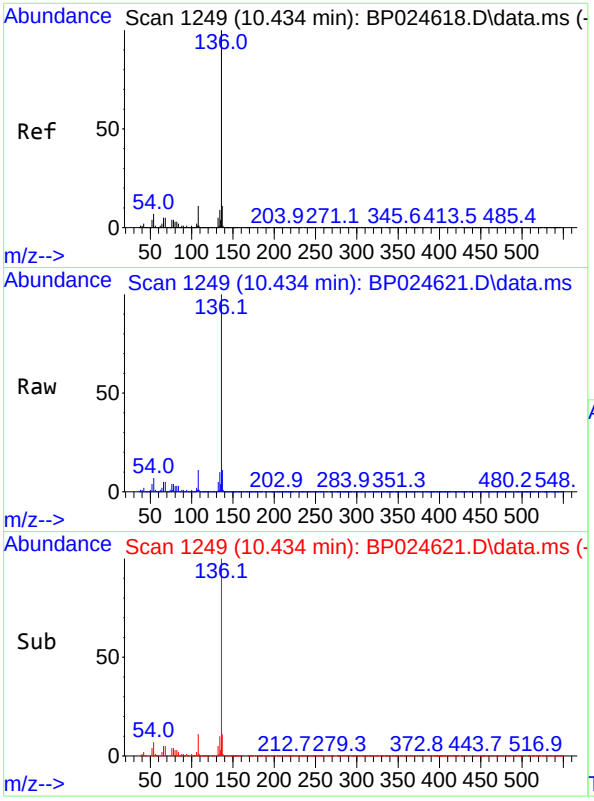


#20
3+4-Methylphenols
Concen: 84.32 ng
RT: 8.440 min Scan# 910
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:107 Resp: 852078

Ion	Ratio	Lower	Upper
107	100		
108	88.1	66.7	106.7
77	33.7	13.1	53.1
79	28.8	8.9	48.9

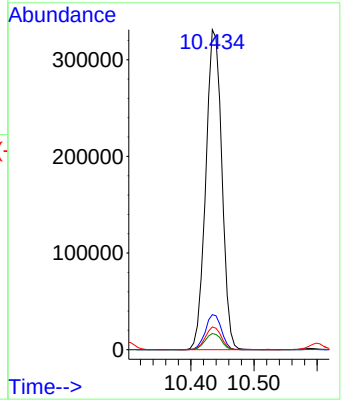




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:136 Resp: 58432

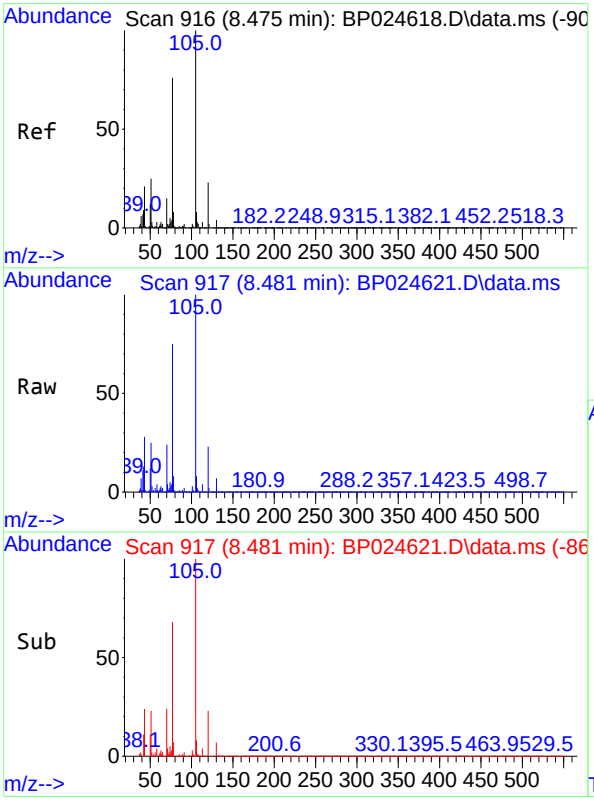
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	7.1	5.5	8.3
68	5.1	4.2	6.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

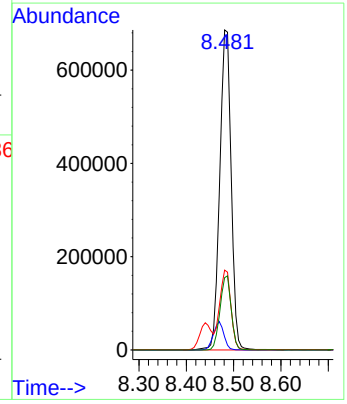
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

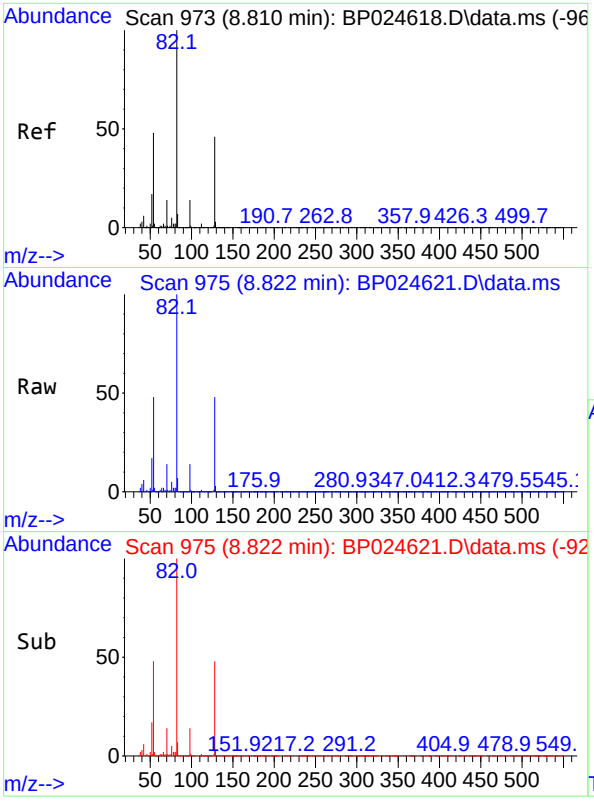


#22
Acetophenone
Concen: 78.62 ng
RT: 8.481 min Scan# 917
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:105 Resp: 1147610

Ion	Ratio	Lower	Upper
105	100		
71	4.0	2.0	3.0#
51	25.0	20.4	30.6
120	22.6	18.1	27.1

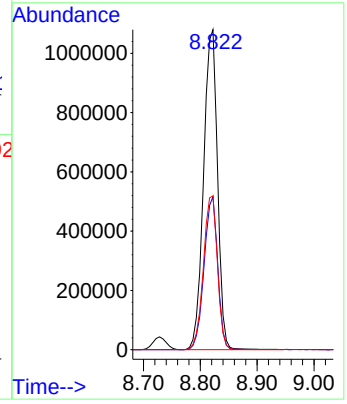




#23
Nitrobenzene-d5
Concen: 159.12 ng
RT: 8.822 min Scan# 9
Delta R.T. 0.012 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 82 Resp: 184018

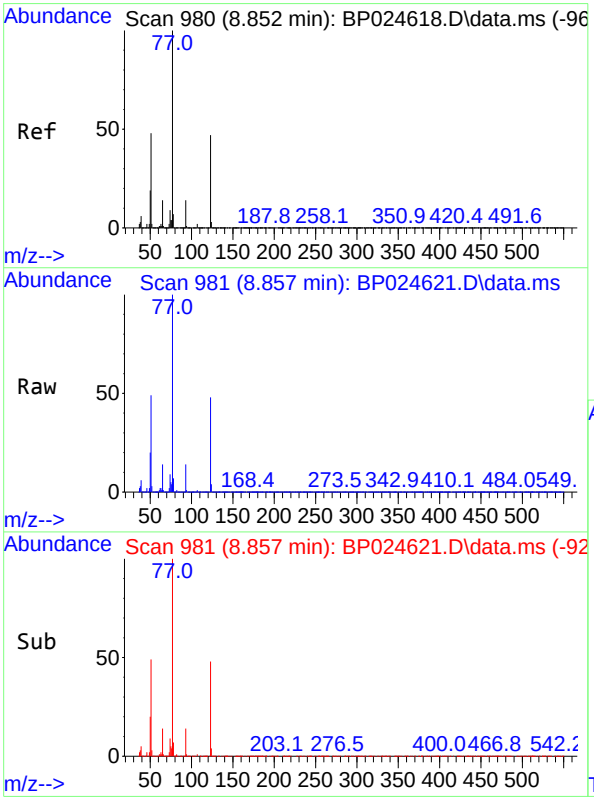
Ion	Ratio	Lower	Upper
82	100		
128	47.8	37.0	55.4
54	48.0	38.7	58.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

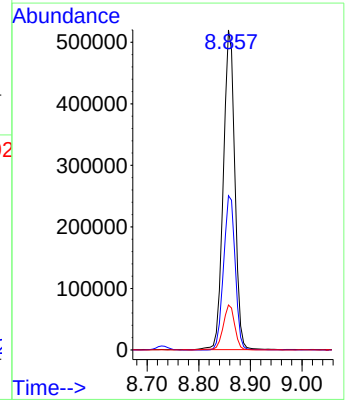
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

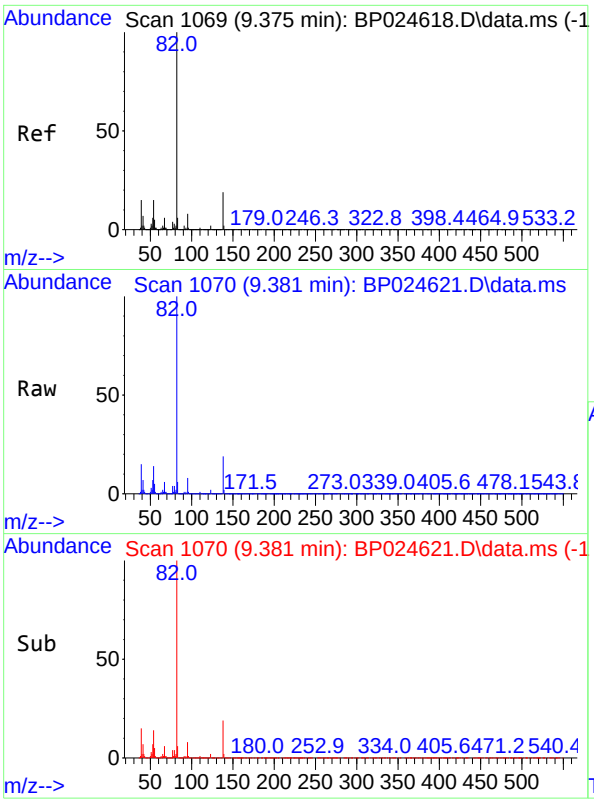


#24
Nitrobenzene
Concen: 79.02 ng
RT: 8.857 min Scan# 981
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 77 Resp: 804153

Ion	Ratio	Lower	Upper
77	100		
123	48.2	37.4	56.0
65	14.0	11.3	16.9

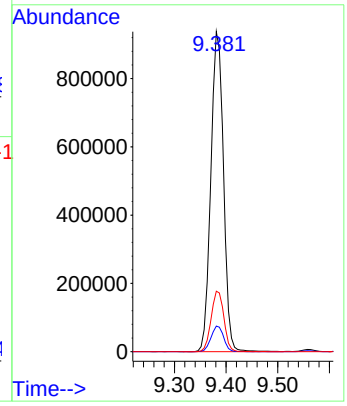




#25
Isophorone
Concen: 79.42 ng
RT: 9.381 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 82 Resp: 159323

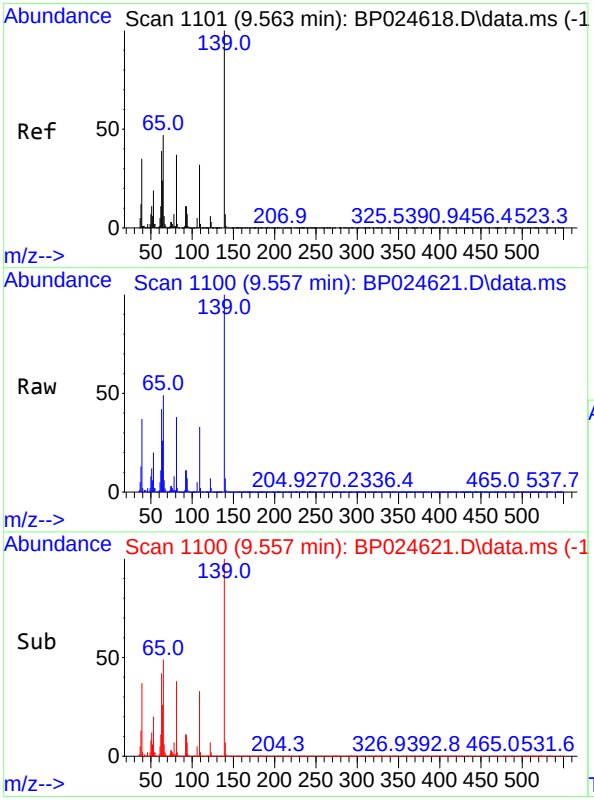
Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.3	9.5
138	18.9	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

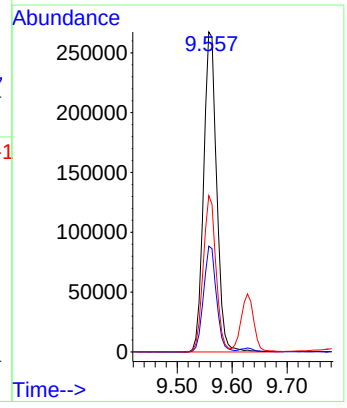
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

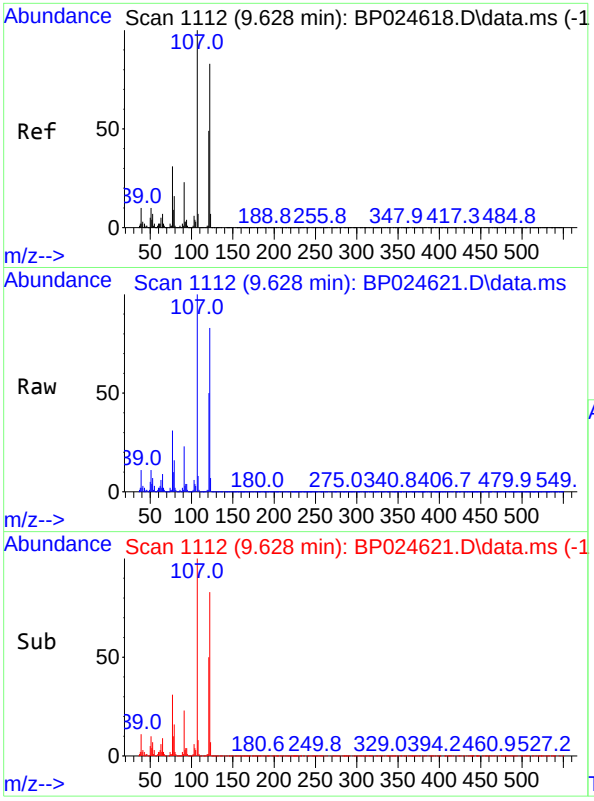


#26
2-Nitrophenol
Concen: 88.67 ng
RT: 9.557 min Scan# 1100
Delta R.T. -0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:139 Resp: 442185

Ion	Ratio	Lower	Upper
139	100		
109	33.1	25.9	38.9
65	48.8	37.9	56.9

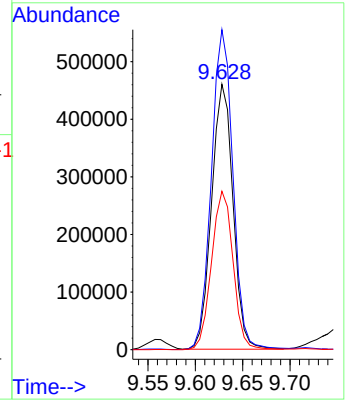




#27
2,4-Dimethylphenol
Concen: 82.17 ng
RT: 9.628 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:122 Resp: 72243

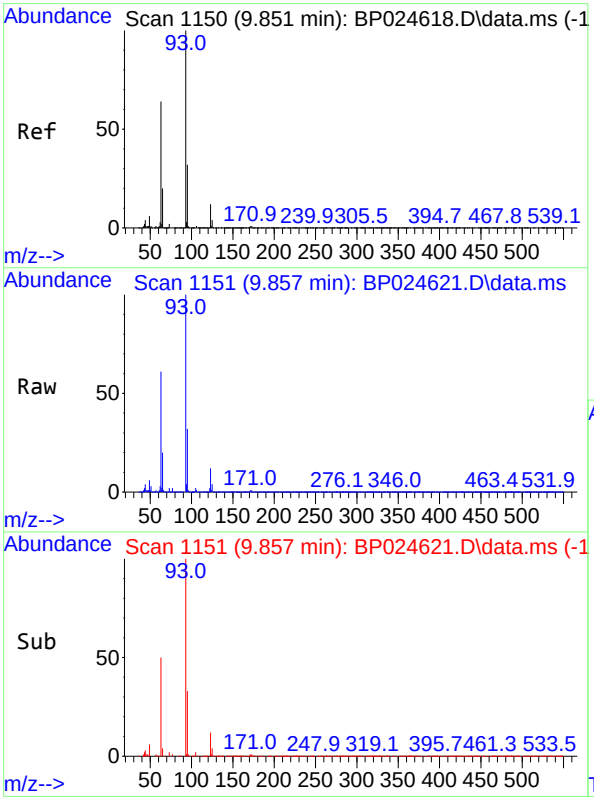
Ion	Ratio	Lower	Upper
122	100		
107	120.6	96.2	144.2
121	59.7	47.6	71.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

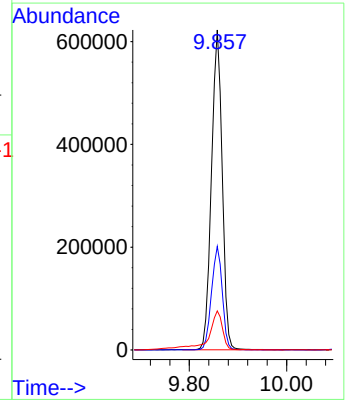
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

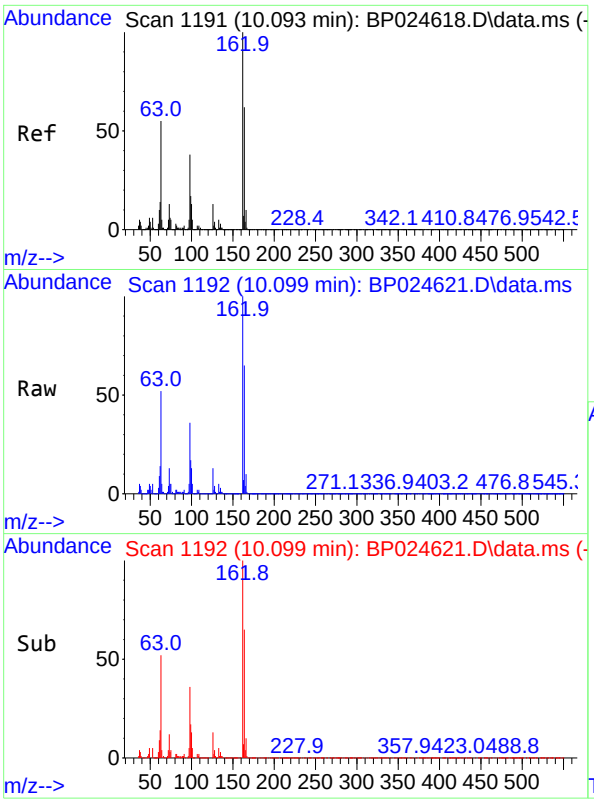


#28
bis(2-Chloroethoxy)methane
Concen: 78.98 ng
RT: 9.857 min Scan# 1151
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 93 Resp: 946615

Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.5	38.3
123	12.2	9.7	14.5

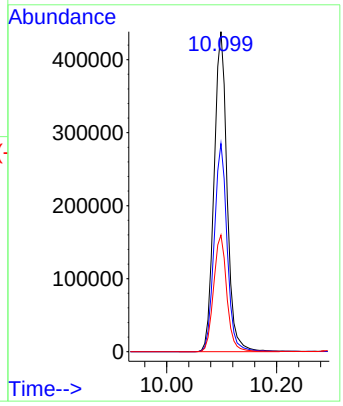




#29
2,4-Dichlorophenol
Concen: 84.70 ng
RT: 10.099 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:162 Resp: 72170

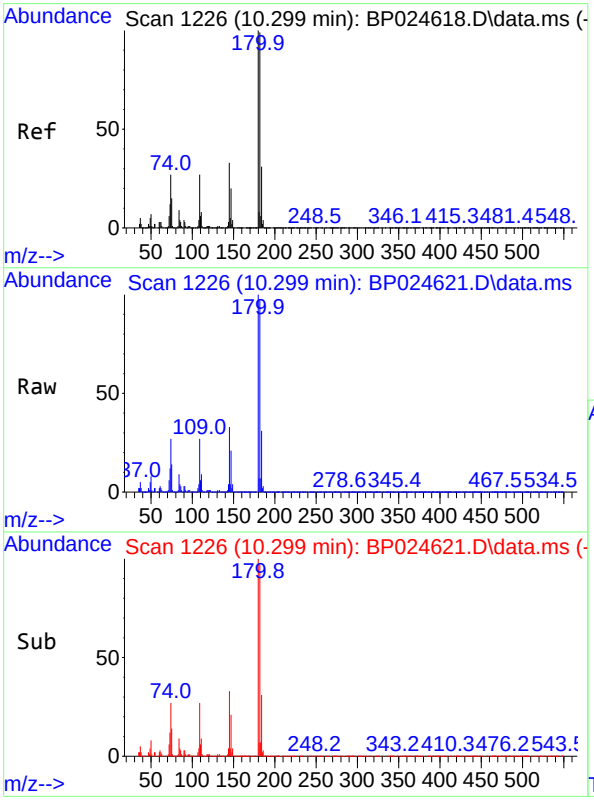
Ion	Ratio	Lower	Upper
162	100		
164	65.1	42.3	82.3
98	36.5	18.4	58.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

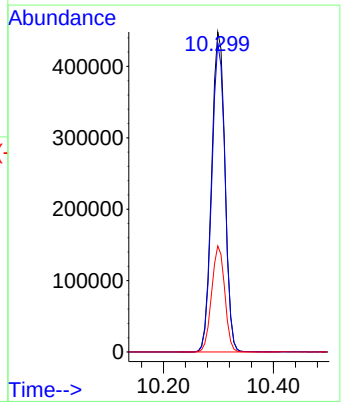
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

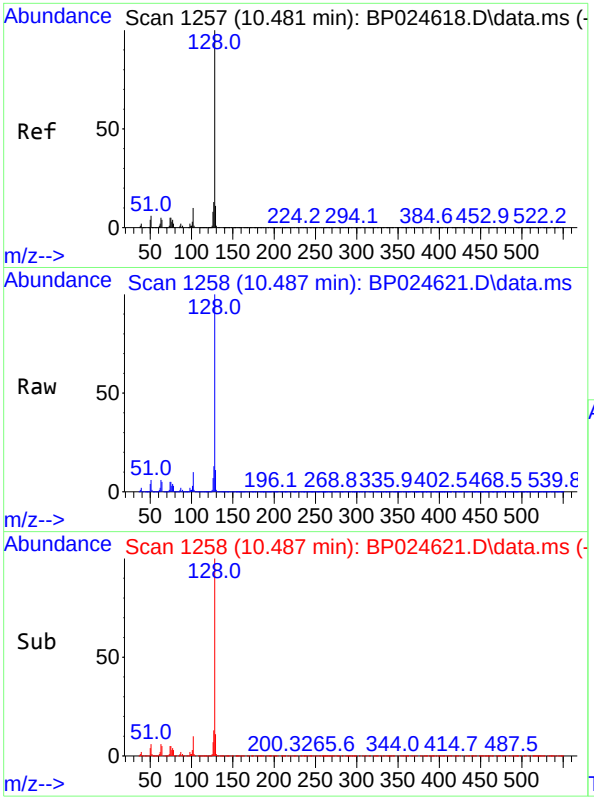


#30
1,2,4-Trichlorobenzene
Concen: 78.69 ng
RT: 10.299 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:180 Resp: 755529

Ion	Ratio	Lower	Upper
180	100		
182	96.5	79.0	118.4
145	33.1	26.6	39.8

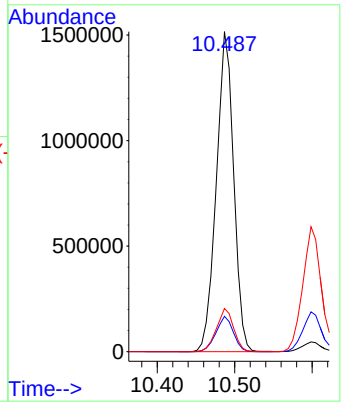




#31
Naphthalene
Concen: 77.77 ng
RT: 10.487 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:128 Resp: 235478

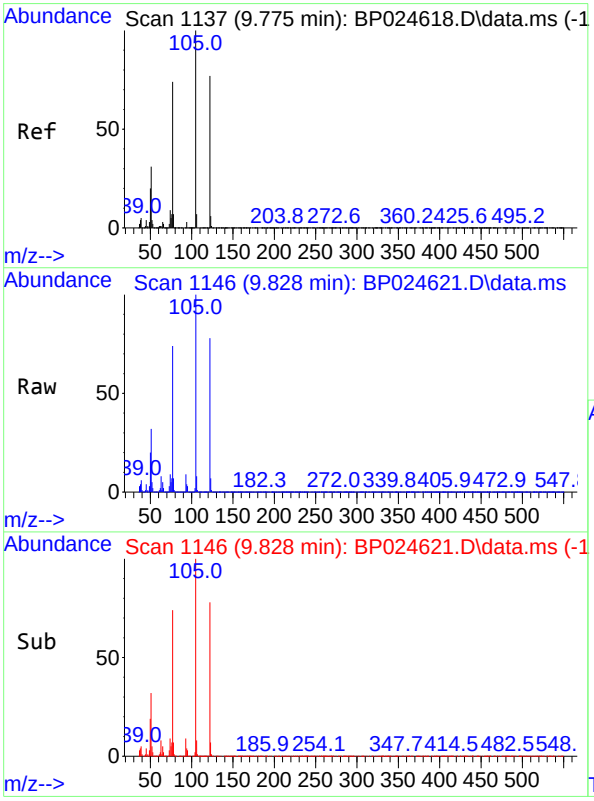
Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.5	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

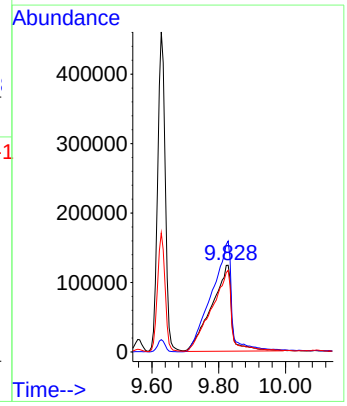
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

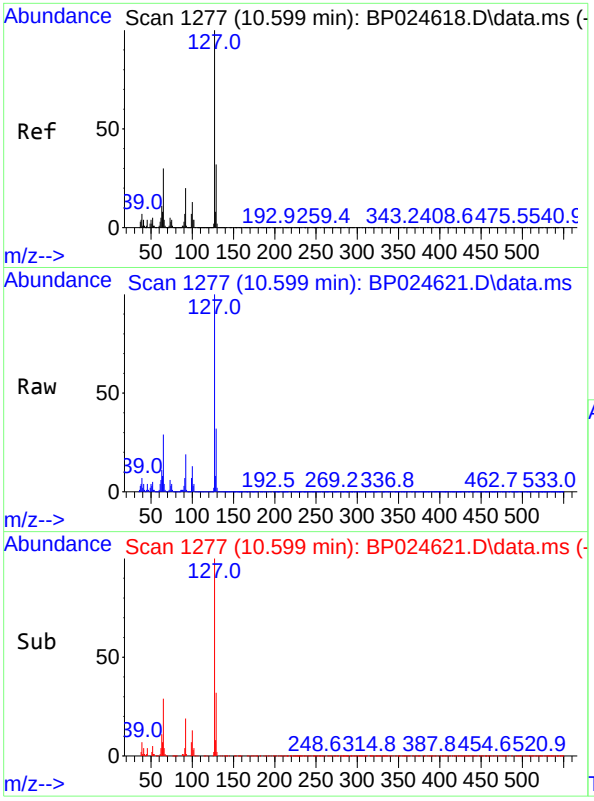


#32
Benzoic acid
Concen: 80.15 ng
RT: 9.828 min Scan# 1146
Delta R.T. 0.053 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:122 Resp: 525308

Ion	Ratio	Lower	Upper
122	100		
105	127.9	106.9	146.9
77	94.2	75.1	115.1

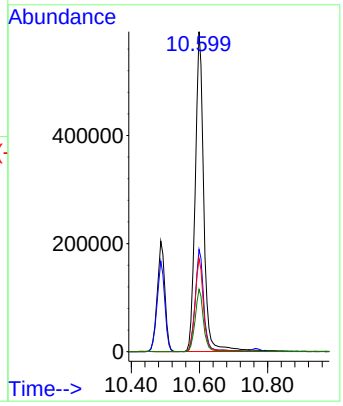




#33
4-Chloroaniline
Concen: 84.61 ng
RT: 10.599 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:127 Resp: 103386

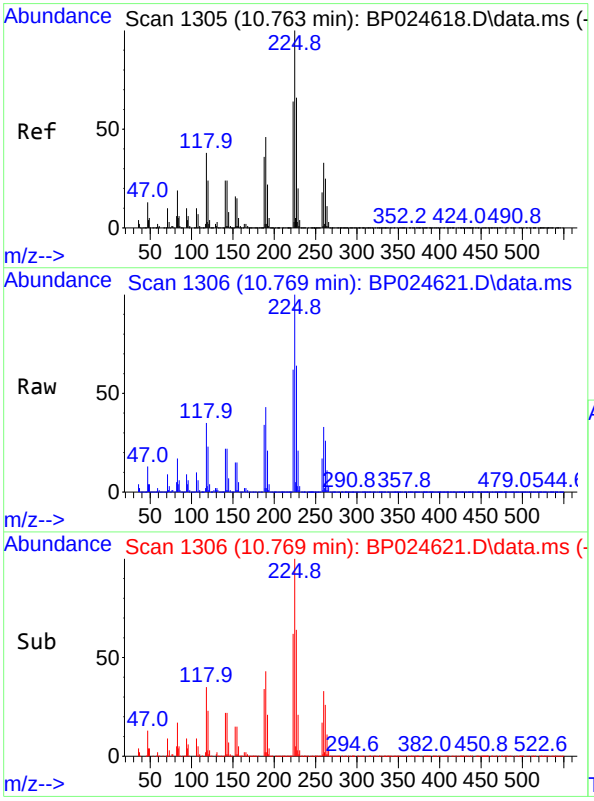
Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.8	38.6
65	29.1	23.9	35.9
92	19.5	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

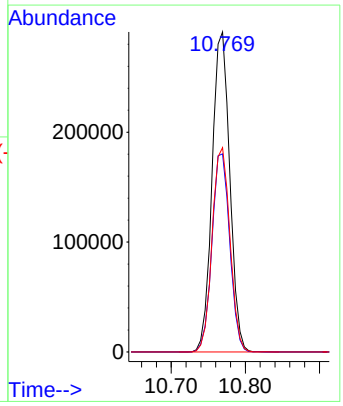
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

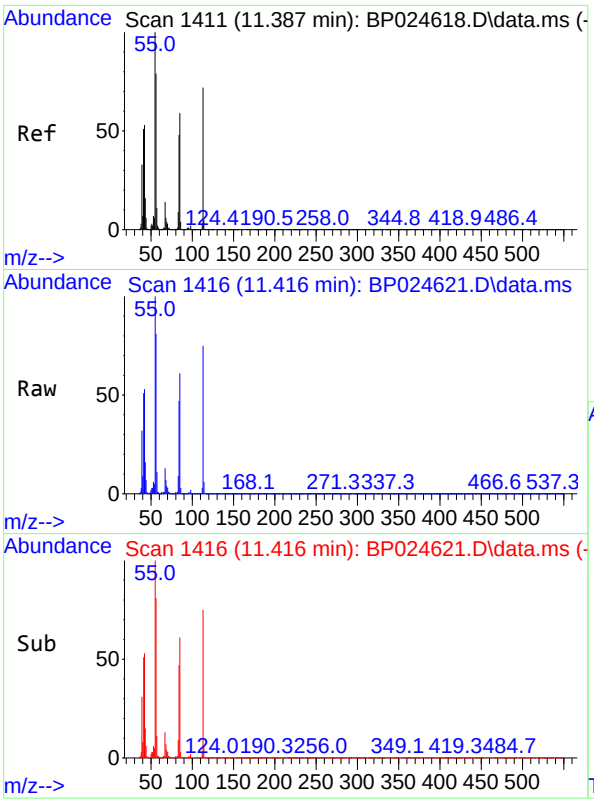


#34
Hexachlorobutadiene
Concen: 77.35 ng
RT: 10.769 min Scan# 1306
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:225 Resp: 481140

Ion	Ratio	Lower	Upper
225	100		
223	61.9	51.0	76.6
227	63.8	53.1	79.7





#35
Caprolactam
Concen: 83.50 ng
RT: 11.416 min Scan# 14
Delta R.T. 0.029 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

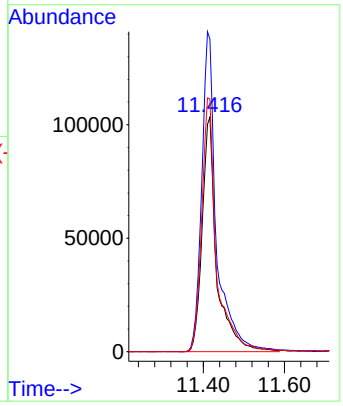
Tgt Ion:113 Resp: 25725

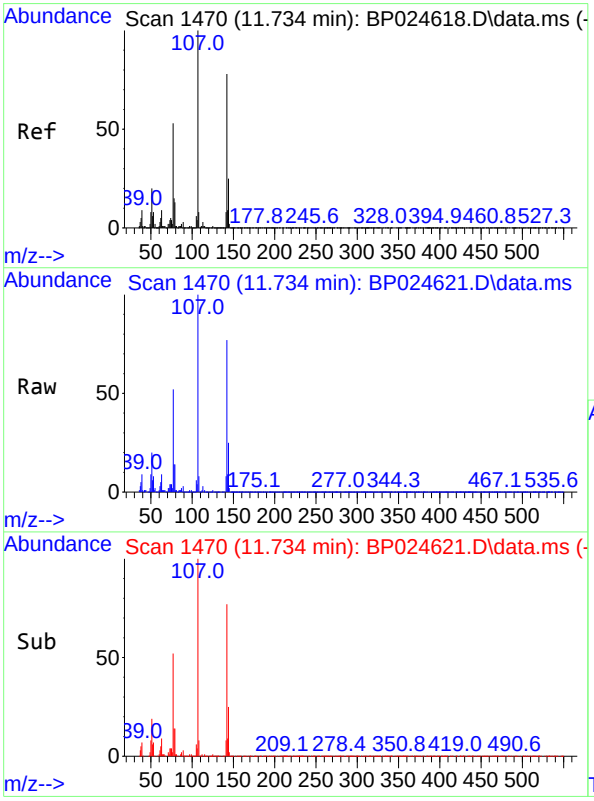
Ion	Ratio	Lower	Upper
113	100		
55	133.3	119.0	159.0
56	107.8	90.3	130.3

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

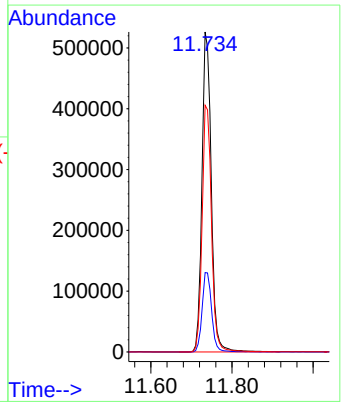


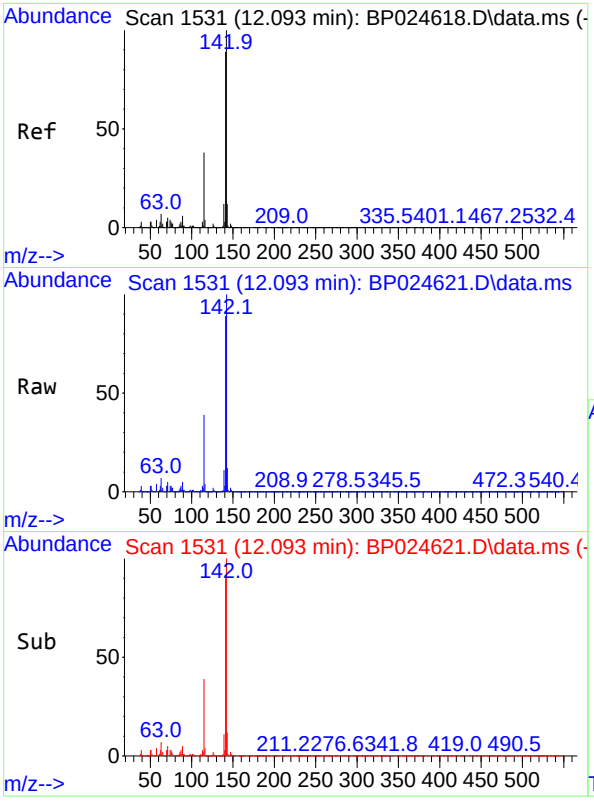


#36
4-Chloro-3-methylphenol
Concen: 80.74 ng
RT: 11.734 min Scan# 1470
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:107 Resp: 838983

Ion	Ratio	Lower	Upper
107	100		
144	24.8	20.1	30.1
142	77.1	62.1	93.1





#37
2-Methylnaphthalene
Concen: 78.01 ng
RT: 12.093 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

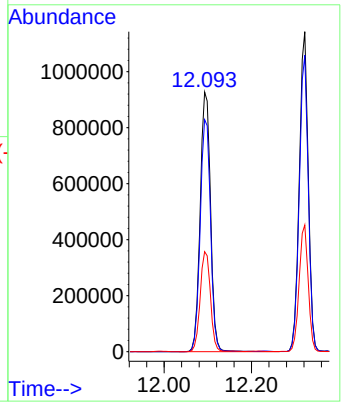
Tgt Ion:142 Resp: 152944

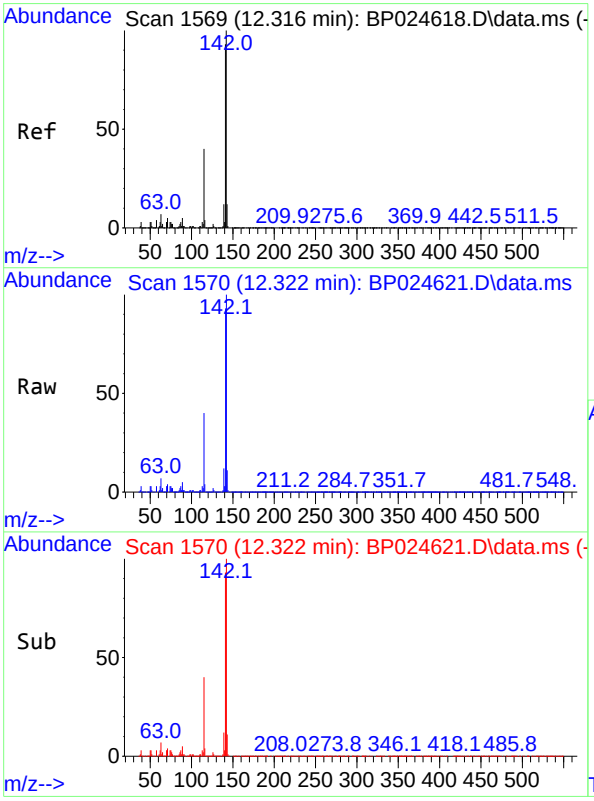
Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.2	106.8
115	38.5	30.6	46.0

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

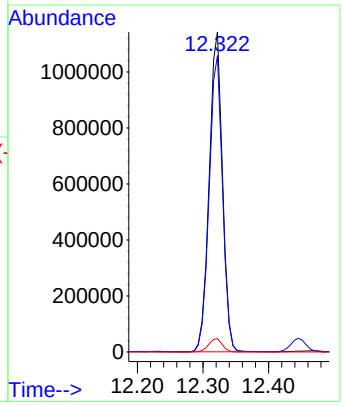


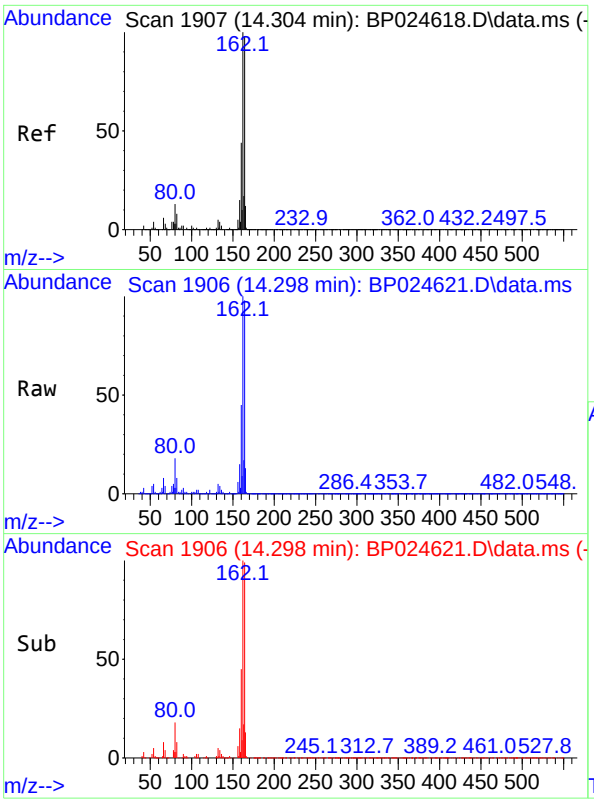


#38
1-Methylnaphthalene
Concen: 76.92 ng
RT: 12.322 min Scan# 1570
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:142 Resp: 1613775

Ion	Ratio	Lower	Upper
142	100		
141	92.6	74.7	112.1
116	4.1	3.4	5.2

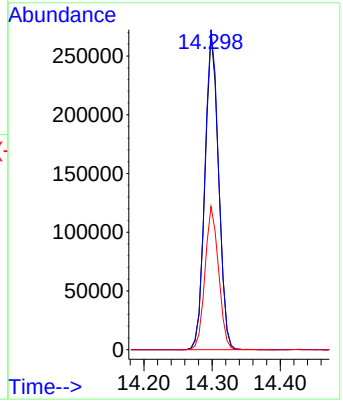




#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:164 Resp: 37357

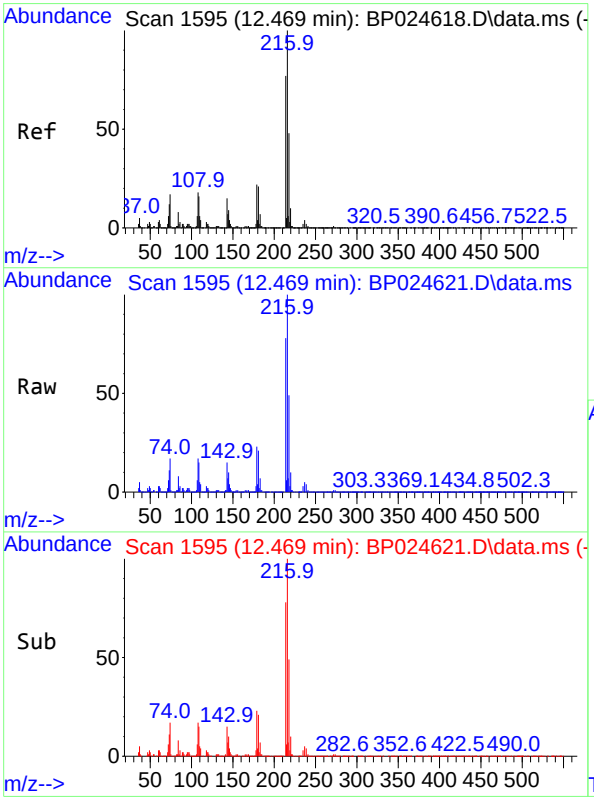
Ion	Ratio	Lower	Upper
164	100		
162	101.5	81.8	122.6
160	45.5	36.3	54.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

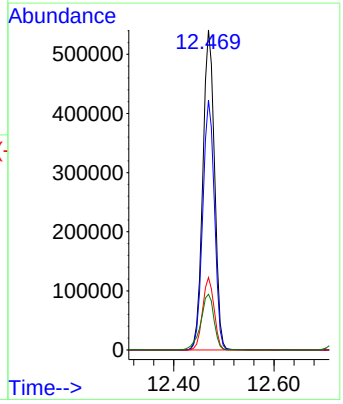
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

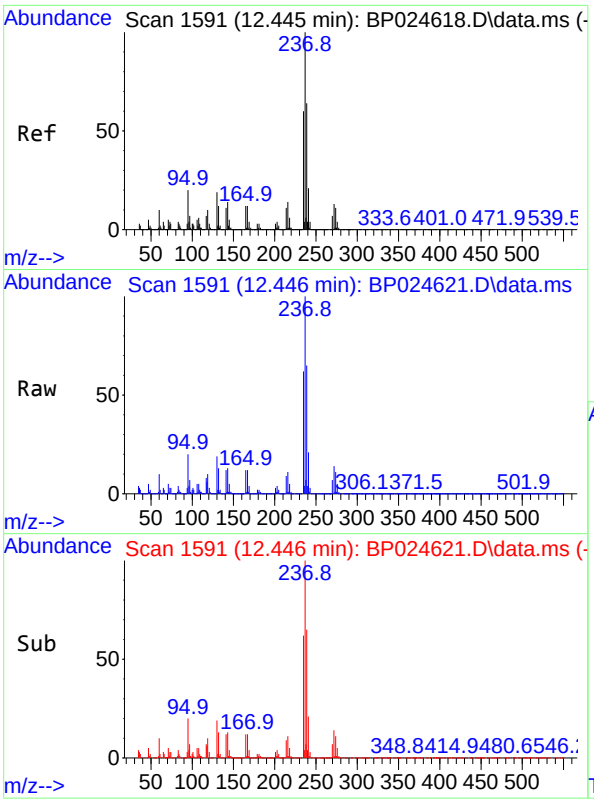


#40
1,2,4,5-Tetrachlorobenzene
Concen: 80.73 ng
RT: 12.469 min Scan# 1595
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:216 Resp: 875750

Ion	Ratio	Lower	Upper
216	100		
214	78.0	62.3	93.5
179	22.4	17.7	26.5
108	19.6	16.0	24.0

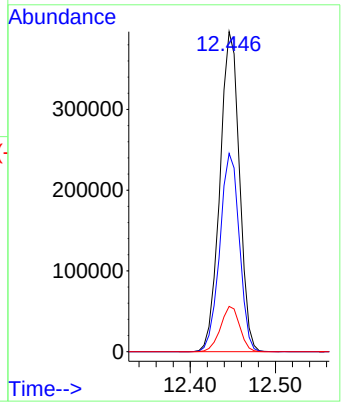




#41
Hexachlorocyclopentadiene
Concen: 95.54 ng
RT: 12.446 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:237 Resp: 62843

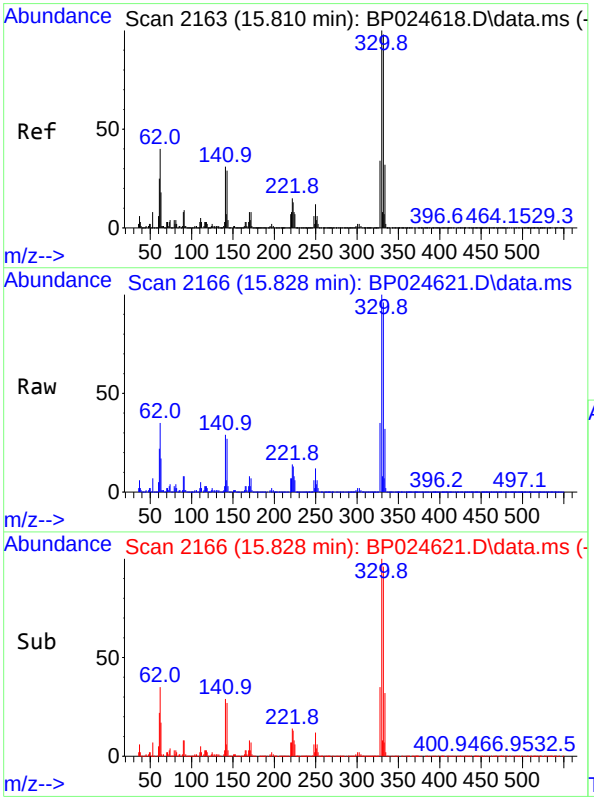
Ion	Ratio	Lower	Upper
237	100		
235	61.9	39.9	79.9
272	14.1	0.0	33.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

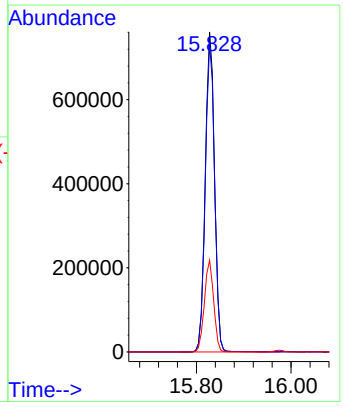
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

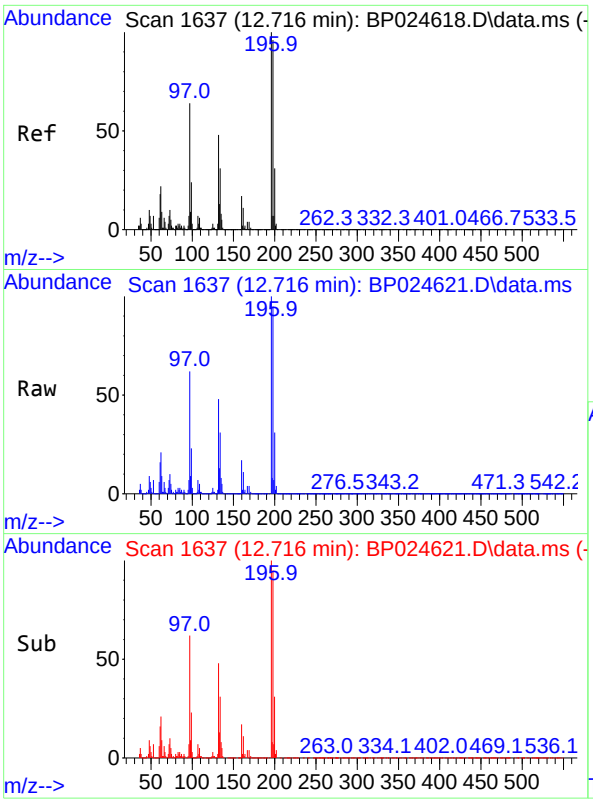


#42
2,4,6-Tribromophenol
Concen: 163.05 ng
RT: 15.828 min Scan# 2166
Delta R.T. 0.018 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:330 Resp: 1032638

Ion	Ratio	Lower	Upper
330	100		
332	96.7	78.2	117.4
141	28.8	24.3	36.5

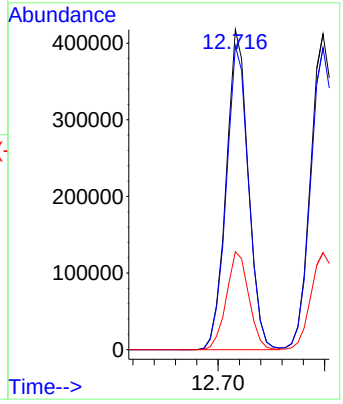




#43
2,4,6-Trichlorophenol
Concen: 85.58 ng
RT: 12.716 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:196 Resp: 60133

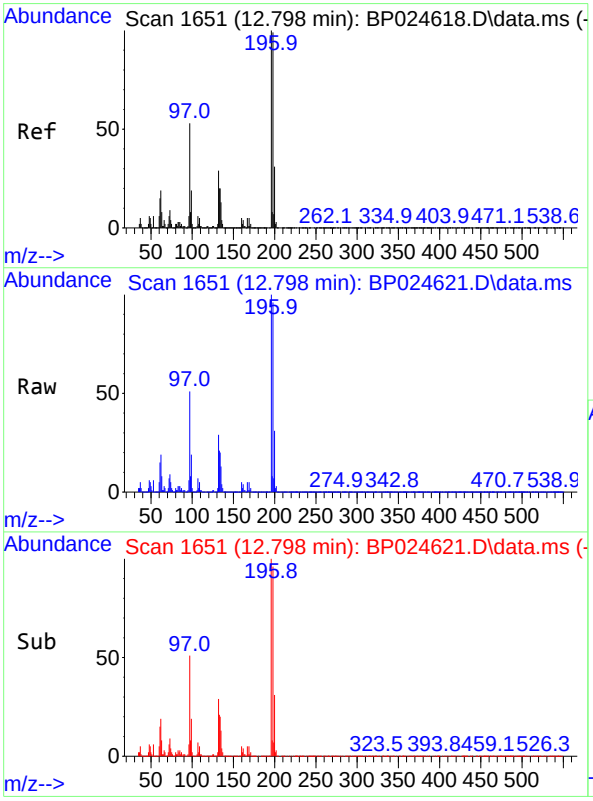
Ion	Ratio	Lower	Upper
196	100		
198	94.9	76.9	115.3
200	30.6	25.2	37.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

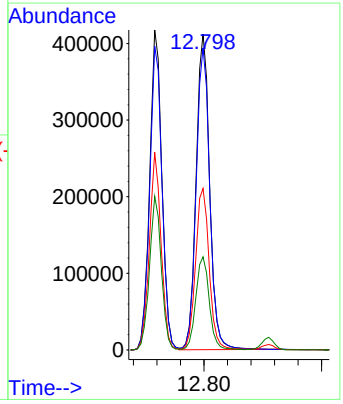
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

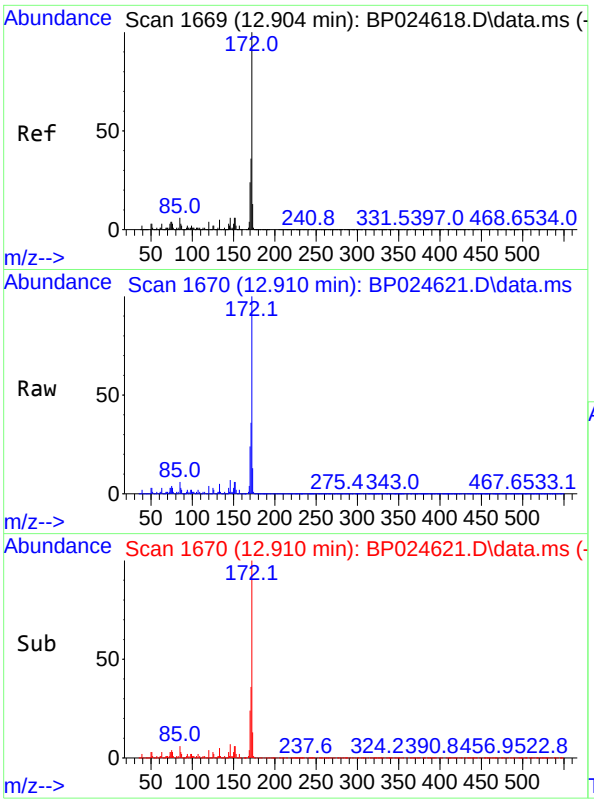


#44
2,4,5-Trichlorophenol
Concen: 84.05 ng
RT: 12.798 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:196 Resp: 657399

Ion	Ratio	Lower	Upper
196	100		
198	95.7	79.2	118.8
97	51.1	42.3	63.5
132	29.5	23.3	34.9

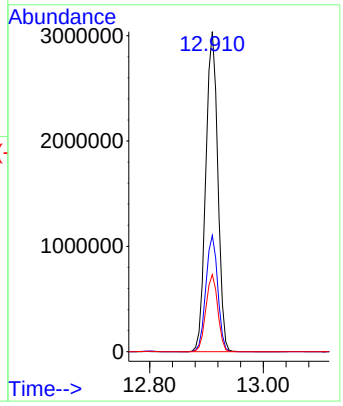




#45
2-Fluorobiphenyl
Concen: 155.65 ng
RT: 12.910 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:172 Resp: 443817

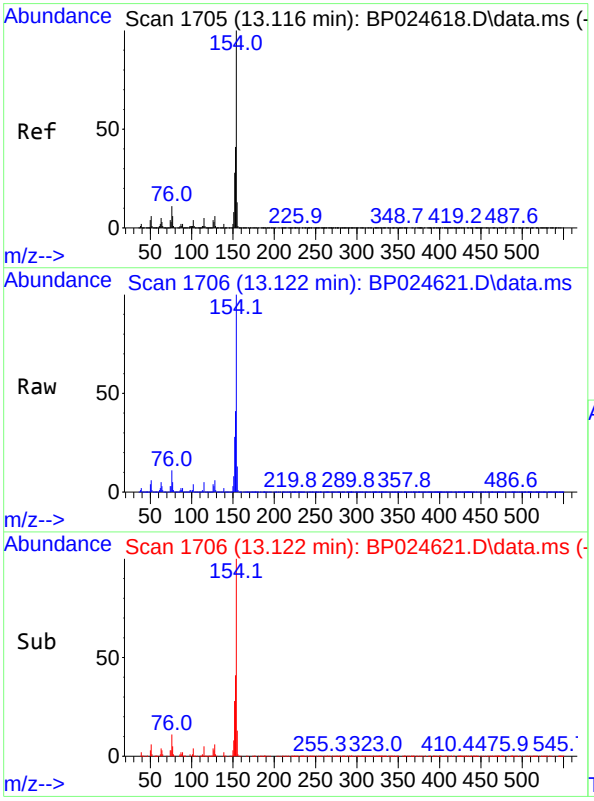
Ion	Ratio	Lower	Upper
172	100		
171	36.3	28.8	43.2
170	24.1	18.8	28.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

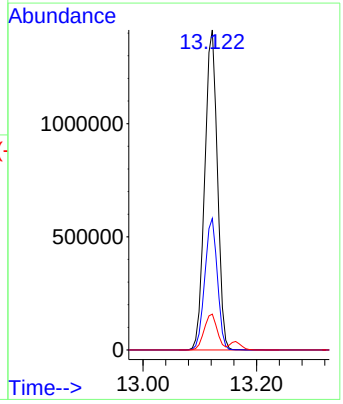
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

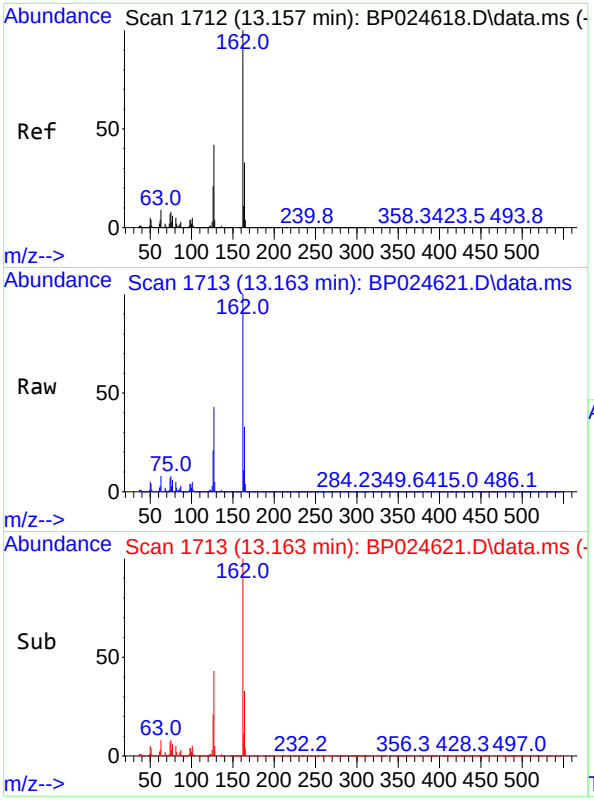


#46
1,1'-Biphenyl
Concen: 78.79 ng
RT: 13.122 min Scan# 1706
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:154 Resp: 2175624

Ion	Ratio	Lower	Upper
154	100		
153	41.1	21.0	61.0
76	11.2	0.0	31.5

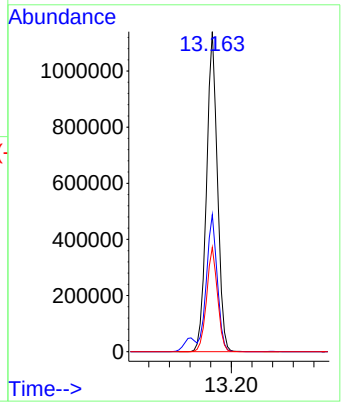




#47
2-Chloronaphthalene
Concen: 78.99 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:162 Resp: 166297

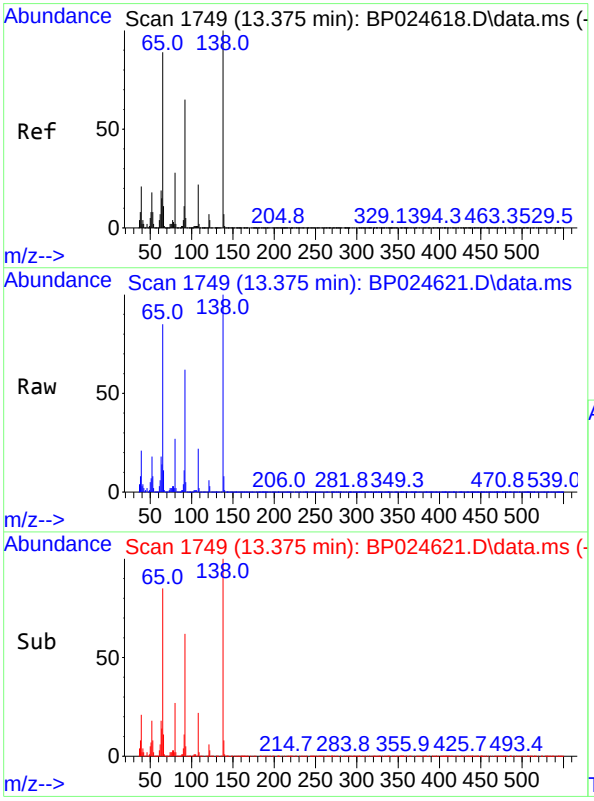
Ion	Ratio	Lower	Upper
162	100		
127	42.8	33.8	50.6
164	32.6	26.0	39.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

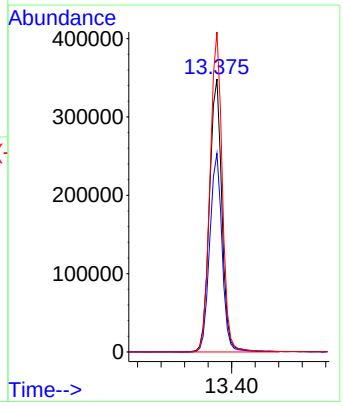
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

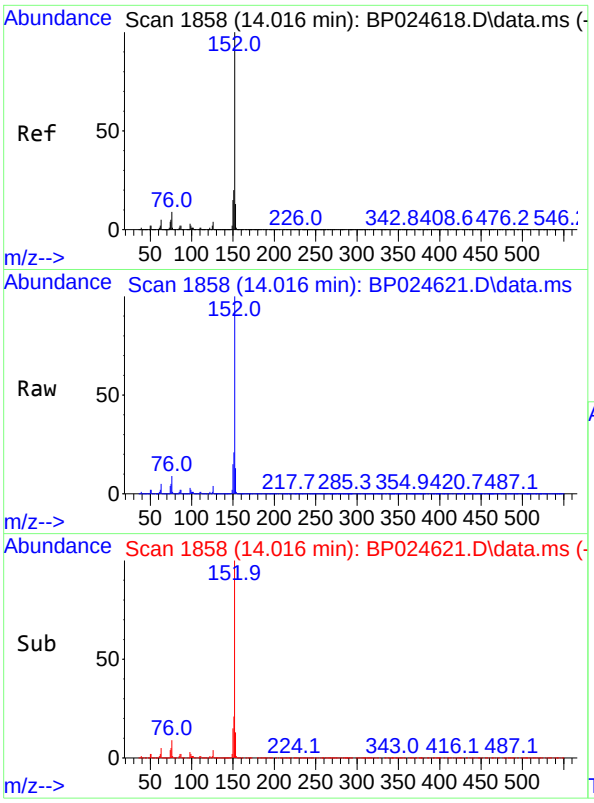


#48
2-Nitroaniline
Concen: 82.22 ng
RT: 13.375 min Scan# 1749
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 65 Resp: 512458

Ion	Ratio	Lower	Upper
65	100		
92	72.7	58.7	88.1
138	117.2	90.2	135.2

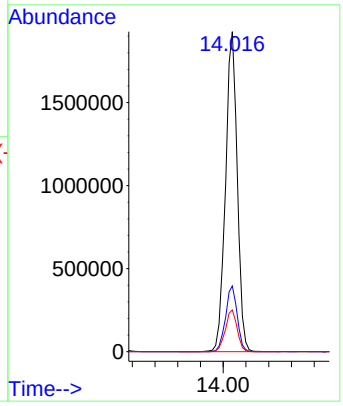




#49
Acenaphthylene
Concen: 78.73 ng
RT: 14.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:152 Resp: 277374

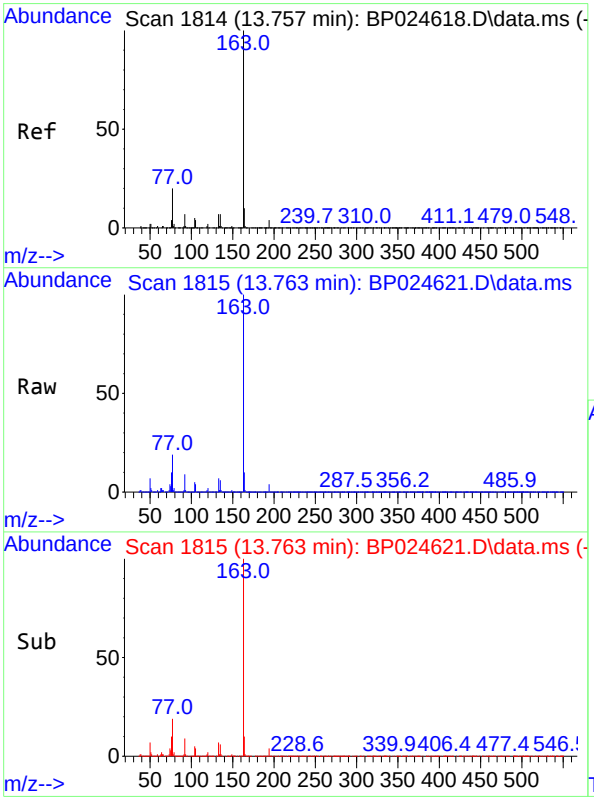
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.2	24.4
153	13.1	10.2	15.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

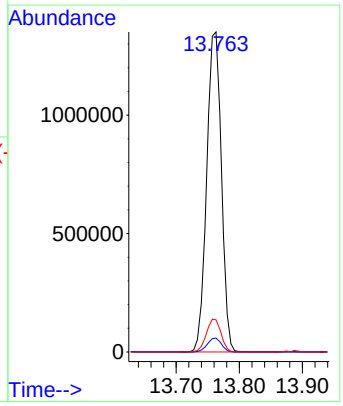
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

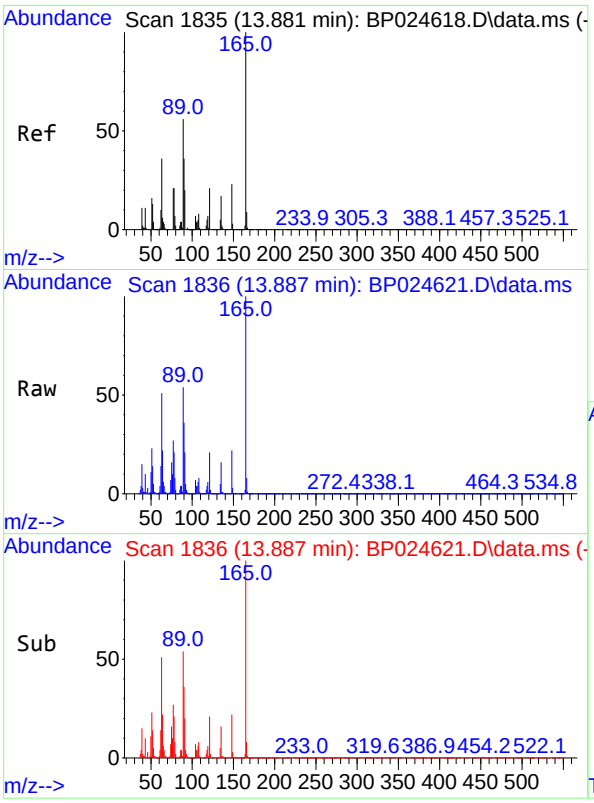


#50
Dimethylphthalate
Concen: 76.64 ng
RT: 13.763 min Scan# 1815
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:163 Resp: 2182359

Ion	Ratio	Lower	Upper
163	100		
194	4.4	3.4	5.0
164	10.0	8.1	12.1





#51
2,6-Dinitrotoluene
Concen: 79.26 ng
RT: 13.887 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

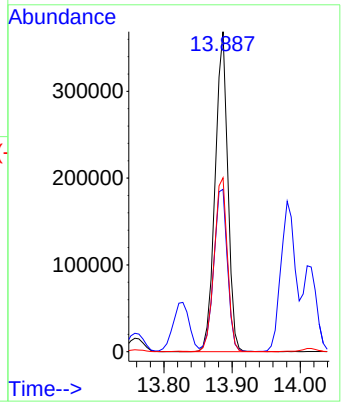
Tgt Ion:165 Resp: 47660

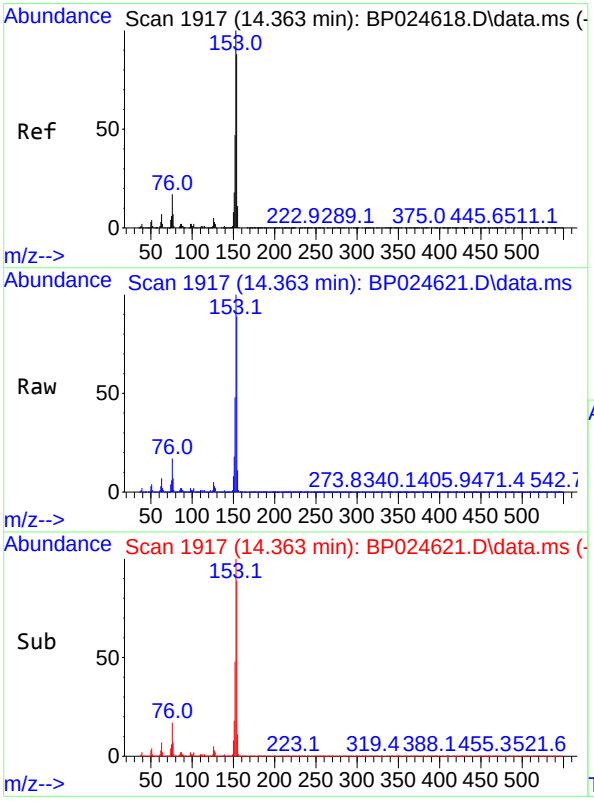
Ion	Ratio	Lower	Upper
165	100		
63	50.8	42.4	63.6
89	54.4	44.8	67.2

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

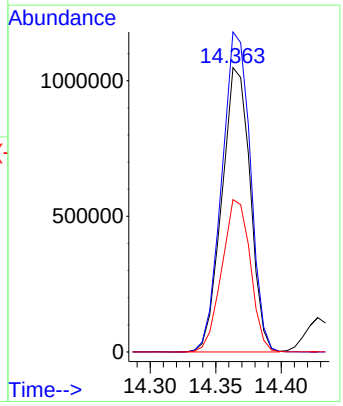


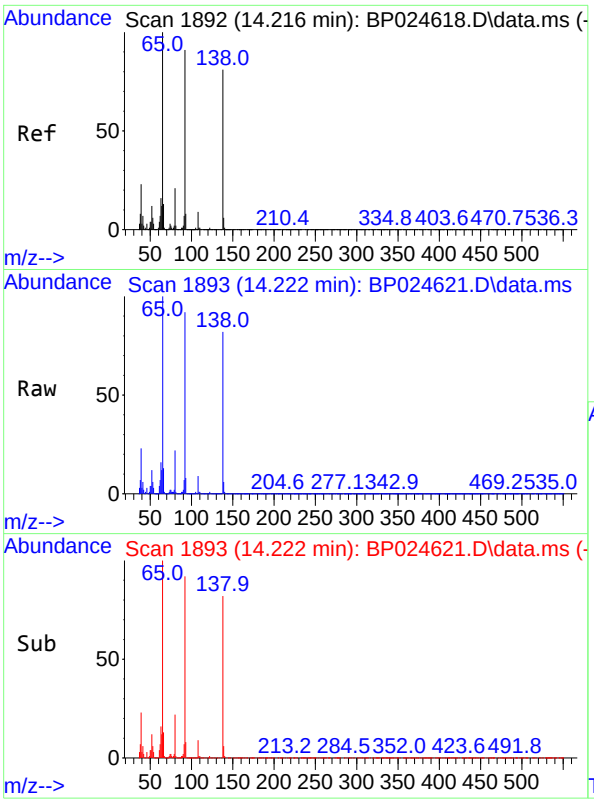


#52
Acenaphthene
Concen: 77.62 ng
RT: 14.363 min Scan# 1917
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:154 Resp: 1572103

Ion	Ratio	Lower	Upper
154	100		
153	112.6	91.0	136.4
152	53.6	42.9	64.3

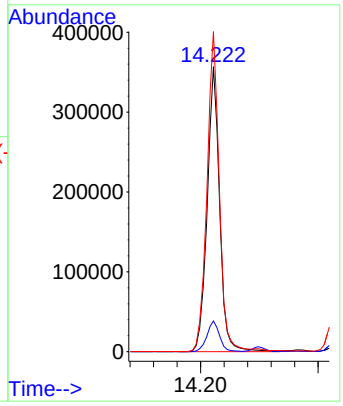




#53
3-Nitroaniline
Concen: 85.15 ng
RT: 14.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:138 Resp: 52284

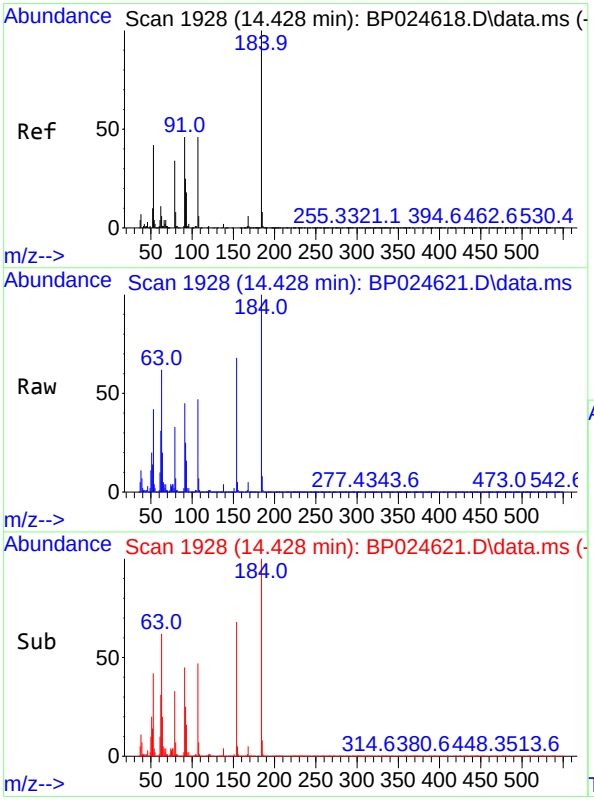
Ion	Ratio	Lower	Upper
138	100		
108	10.8	9.0	13.4
92	112.3	90.1	135.1



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

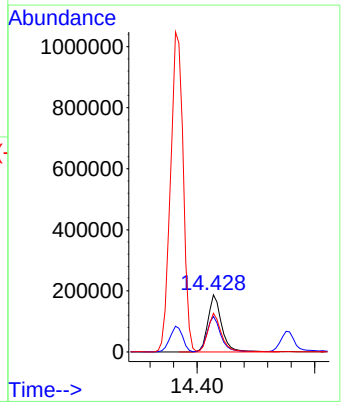
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

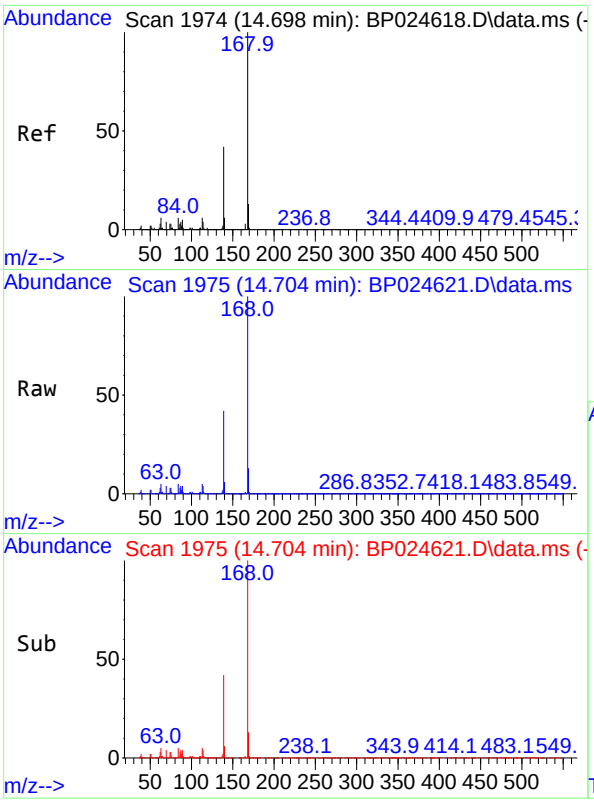


#54
2,4-Dinitrophenol
Concen: 79.29 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:184 Resp: 300458

Ion	Ratio	Lower	Upper
184	100		
63	62.1	51.3	76.9
154	67.9	53.5	80.3

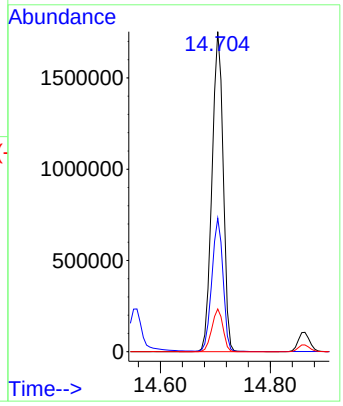




#55
Dibenzofuran
Concen: 76.68 ng
RT: 14.704 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:168 Resp: 247737

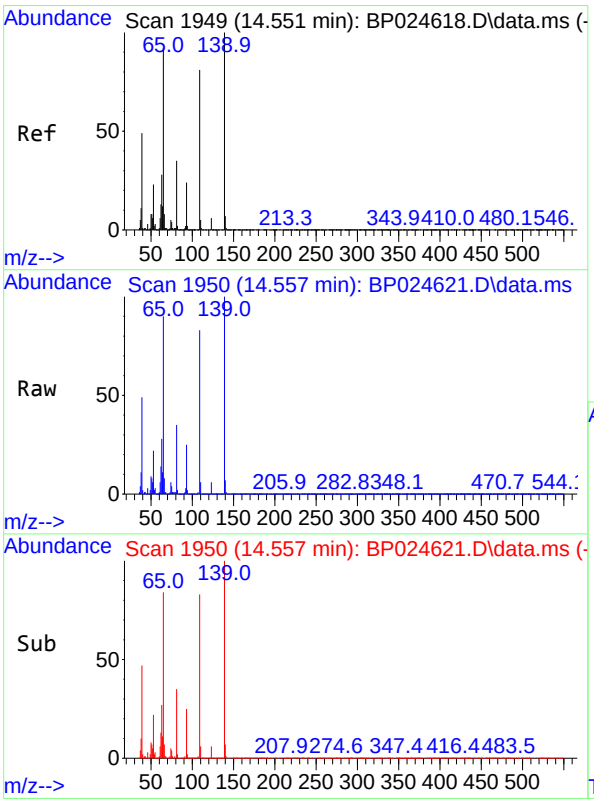
Ion	Ratio	Lower	Upper
168	100		
139	41.7	34.2	51.4
169	13.4	10.8	16.2



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

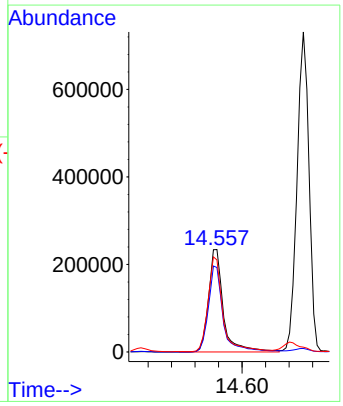
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

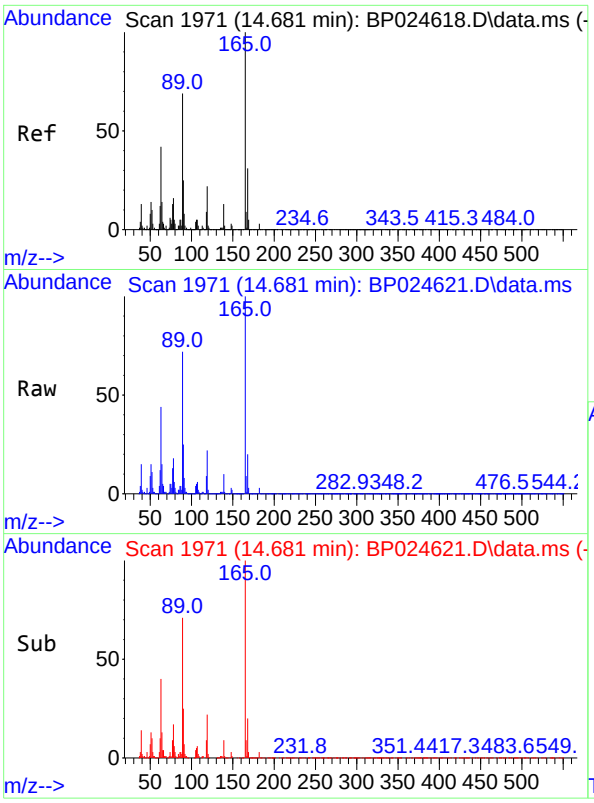


#56
4-Nitrophenol
Concen: 77.27 ng
RT: 14.557 min Scan# 1950
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:139 Resp: 409954

Ion	Ratio	Lower	Upper
139	100		
109	82.6	61.4	101.4
65	89.8	72.2	112.2

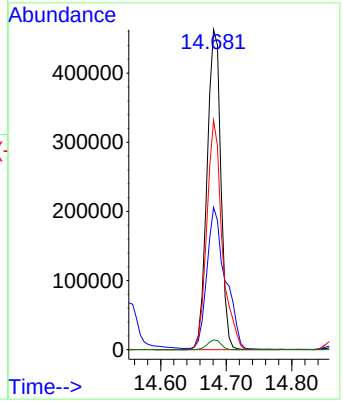




#57
2,4-Dinitrotoluene
Concen: 80.01 ng
RT: 14.681 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:165 Resp: 67828

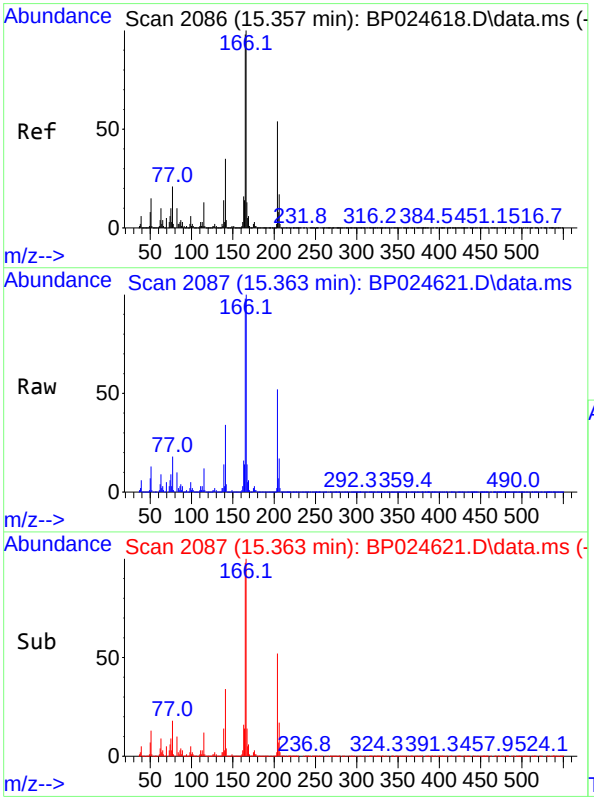
Ion	Ratio	Lower	Upper
165	100		
63	44.4	33.8	50.6
89	71.6	55.6	83.4
182	3.1	2.4	3.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

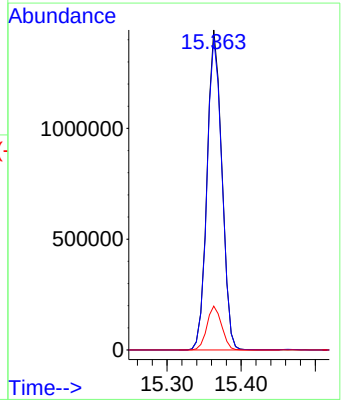
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

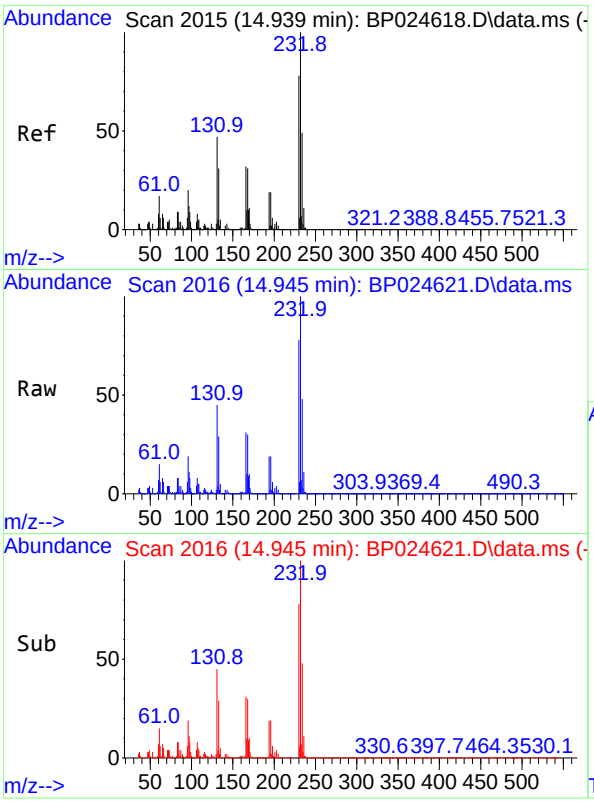


#58
Fluorene
Concen: 76.06 ng
RT: 15.363 min Scan# 2087
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:166 Resp: 2003709

Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.5	117.7
167	13.7	10.7	16.1





#59
2,3,4,6-Tetrachlorophenol
Concen: 81.17 ng
RT: 14.945 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

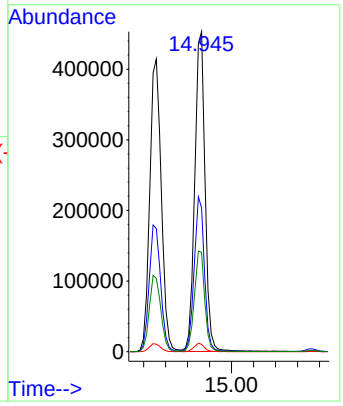
Tgt Ion:232 Resp: 58894

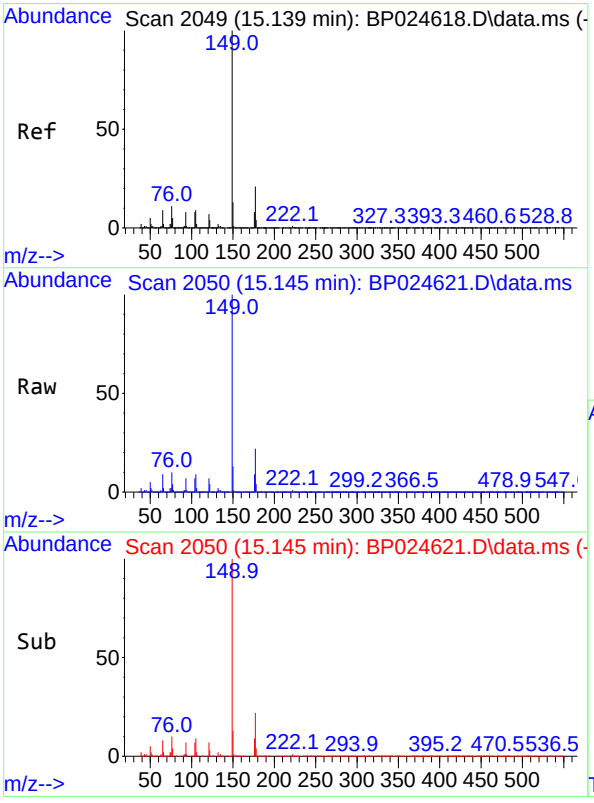
Ion	Ratio	Lower	Upper
232	100		
131	48.1	39.5	59.3
130	2.6	2.2	3.4
166	31.4	25.7	38.5

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

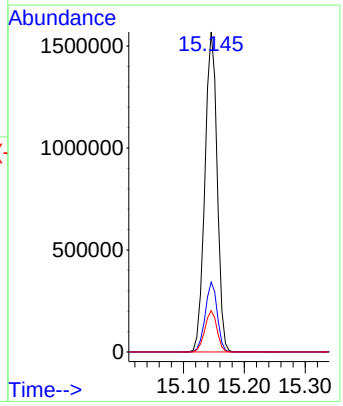


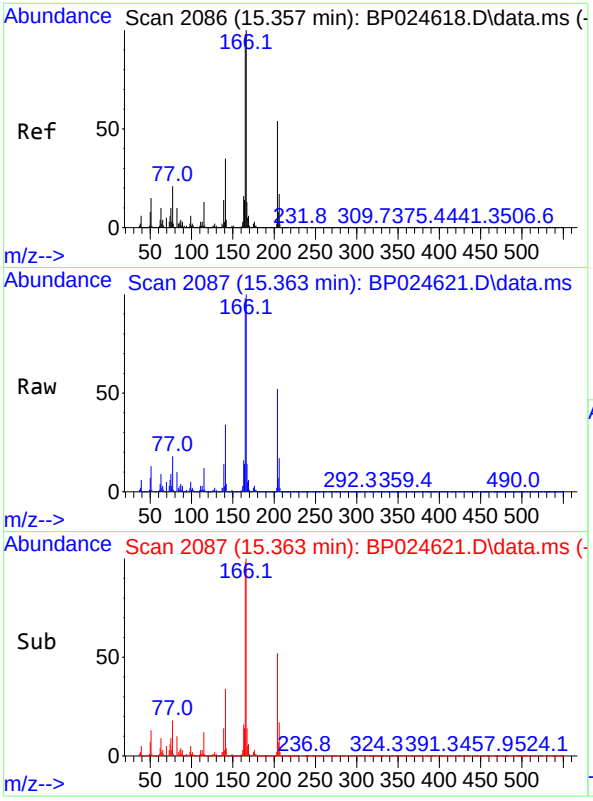


#60
Diethylphthalate
Concen: 76.22 ng
RT: 15.145 min Scan# 2050
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:149 Resp: 2193488

Ion	Ratio	Lower	Upper
149	100		
177	21.9	16.7	25.1
150	12.9	10.2	15.2

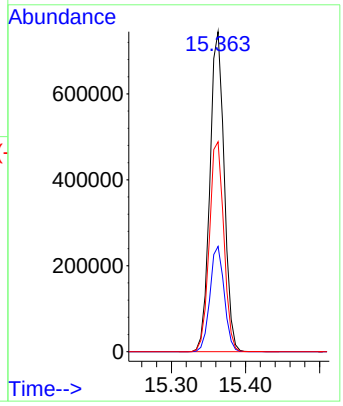




#61
4-Chlorophenyl-phenylether
Concen: 75.96 ng
RT: 15.363 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:204 Resp: 99786

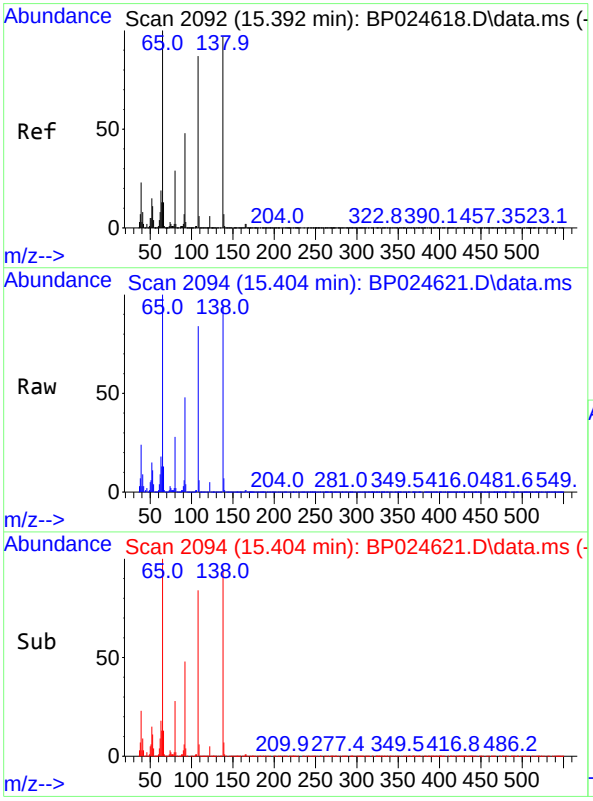
Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.0	39.0
141	65.6	52.9	79.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

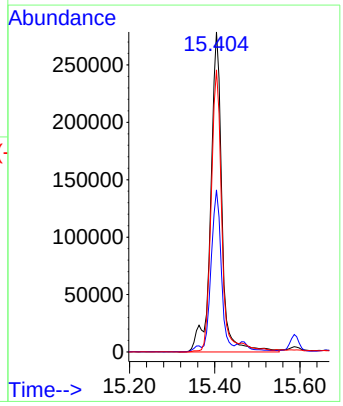
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

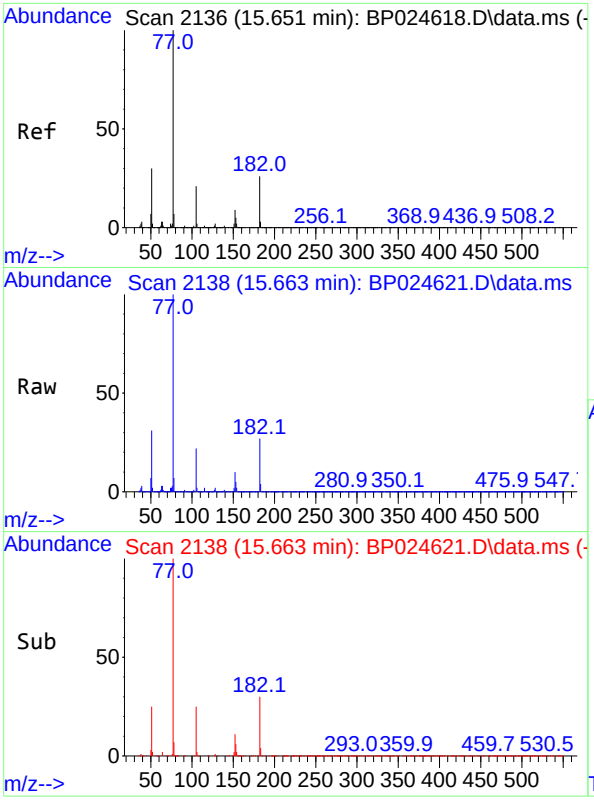


#62
4-Nitroaniline
Concen: 85.24 ng
RT: 15.404 min Scan# 2094
Delta R.T. 0.012 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:138 Resp: 509582

Ion	Ratio	Lower	Upper
138	100		
92	50.6	29.2	69.2
108	88.2	69.0	109.0

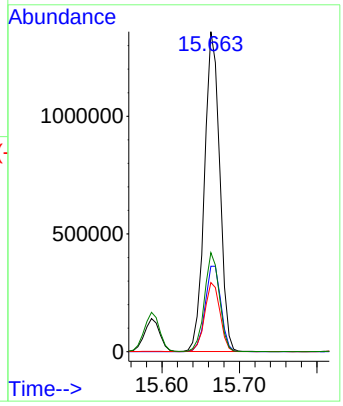




#63
Azobenzene
Concen: 75.47 ng
RT: 15.663 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion: 77 Resp: 185814

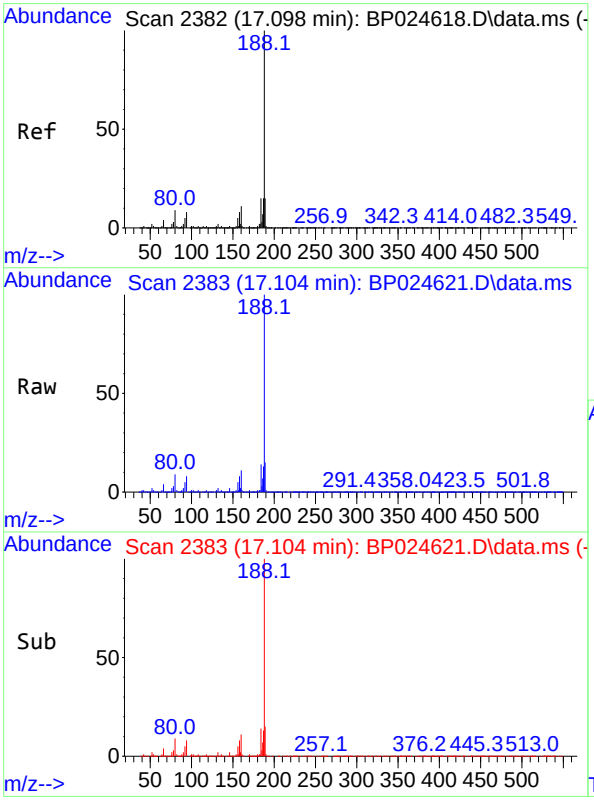
Ion	Ratio	Lower	Upper
77	100		
182	26.7	5.7	45.7
105	21.6	1.3	41.3
51	30.9	10.6	50.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

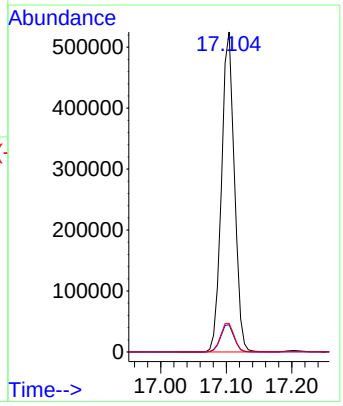
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

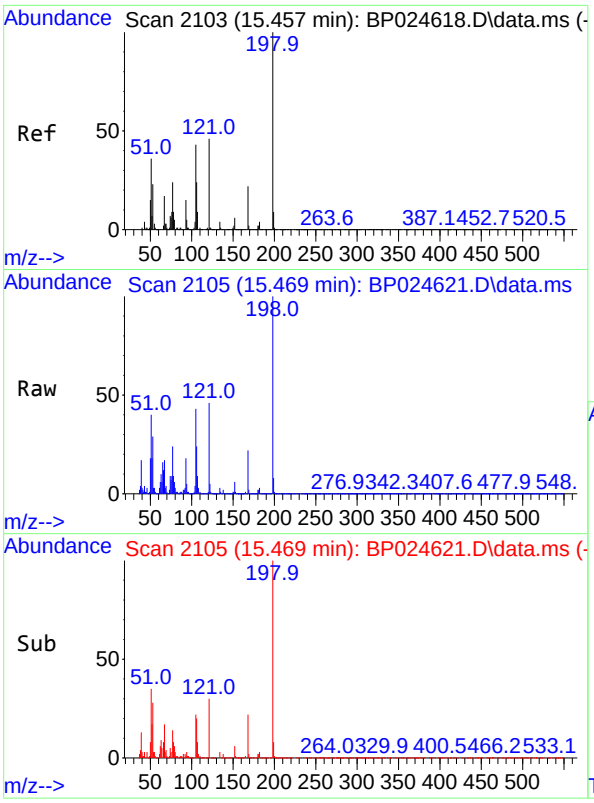


#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.104 min Scan# 2383
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:188 Resp: 713479

Ion	Ratio	Lower	Upper
188	100		
94	8.5	6.5	9.7
80	9.0	7.3	10.9





#65
4,6-Dinitro-2-methylphenol
Concen: 87.01 ng
RT: 15.469 min Scan# 21
Delta R.T. 0.012 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

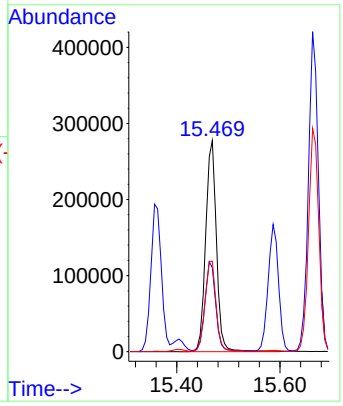
Tgt Ion:198 Resp: 40101

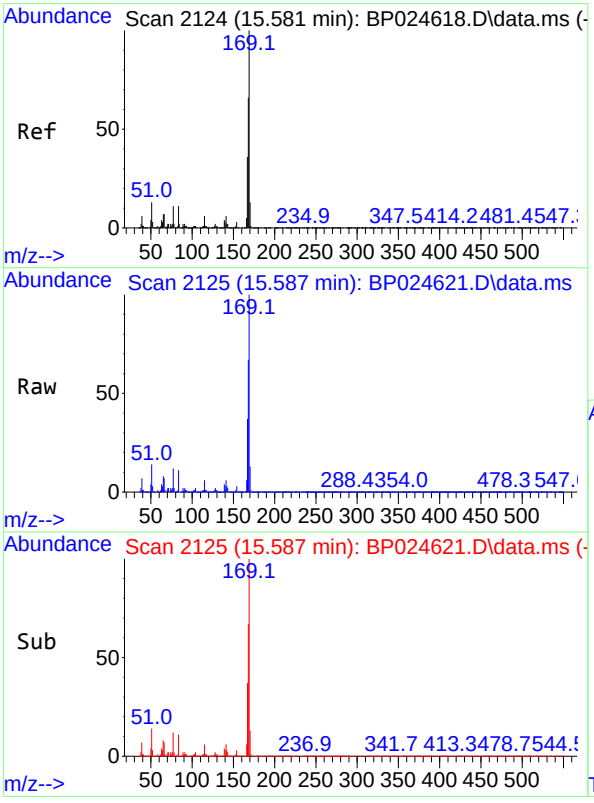
Ion	Ratio	Lower	Upper
198	100		
51	39.8	21.1	61.1
105	42.9	23.6	63.6

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

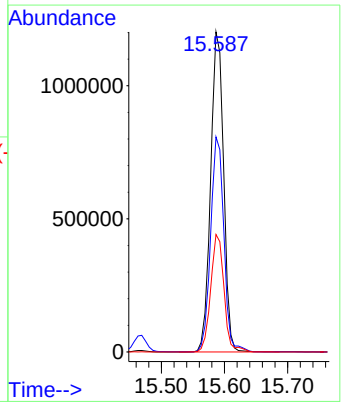


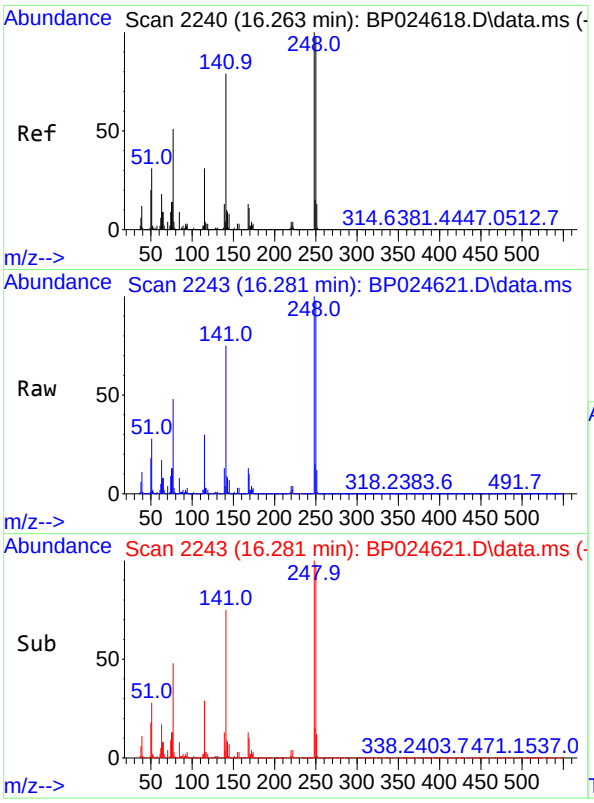


#66
n-Nitrosodiphenylamine
Concen: 78.10 ng
RT: 15.587 min Scan# 2125
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:169 Resp: 1711679

Ion	Ratio	Lower	Upper
169	100		
168	67.2	53.2	79.8
167	36.7	28.6	43.0

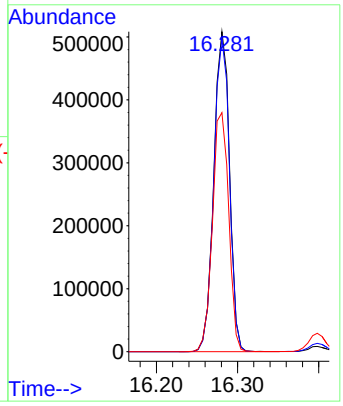




#67
4-Bromophenyl-phenylether
Concen: 81.43 ng
RT: 16.281 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:248 Resp: 68461

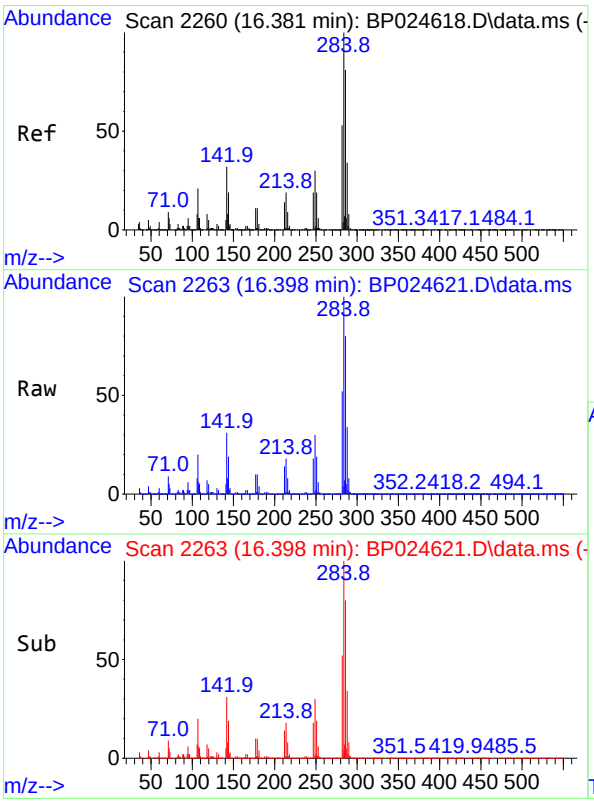
Ion	Ratio	Lower	Upper
248	100		
250	97.8	78.2	117.4
141	74.7	63.0	94.6



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

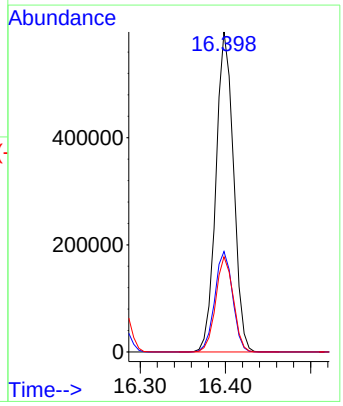
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

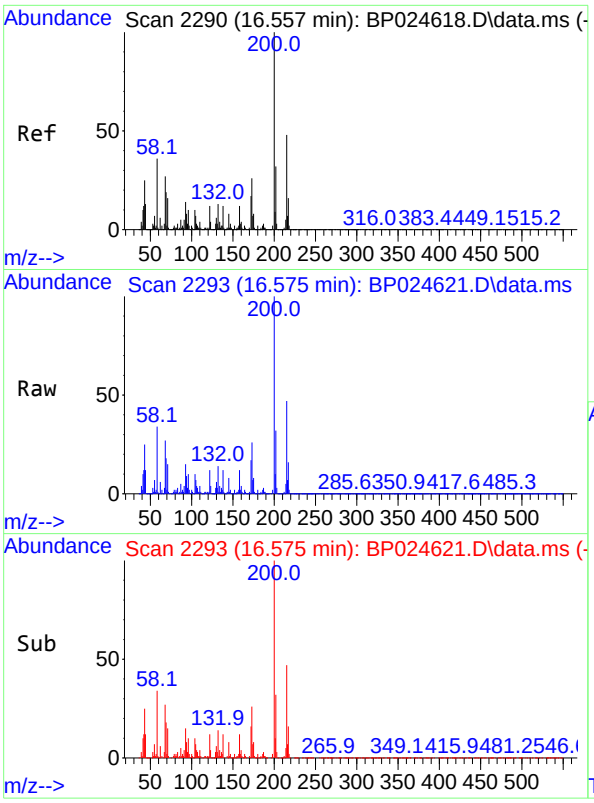


#68
Hexachlorobenzene
Concen: 80.18 ng
RT: 16.398 min Scan# 2263
Delta R.T. 0.018 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:284 Resp: 856547

Ion	Ratio	Lower	Upper
284	100		
142	31.4	25.9	38.9
249	29.7	24.1	36.1

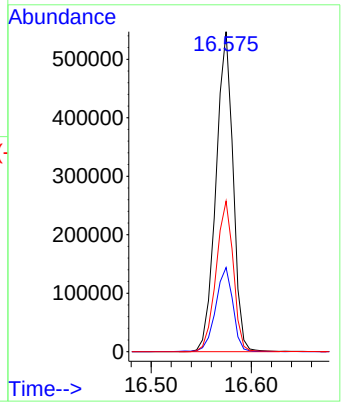




#69
Atrazine
Concen: 80.42 ng
RT: 16.575 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:200 Resp: 64587

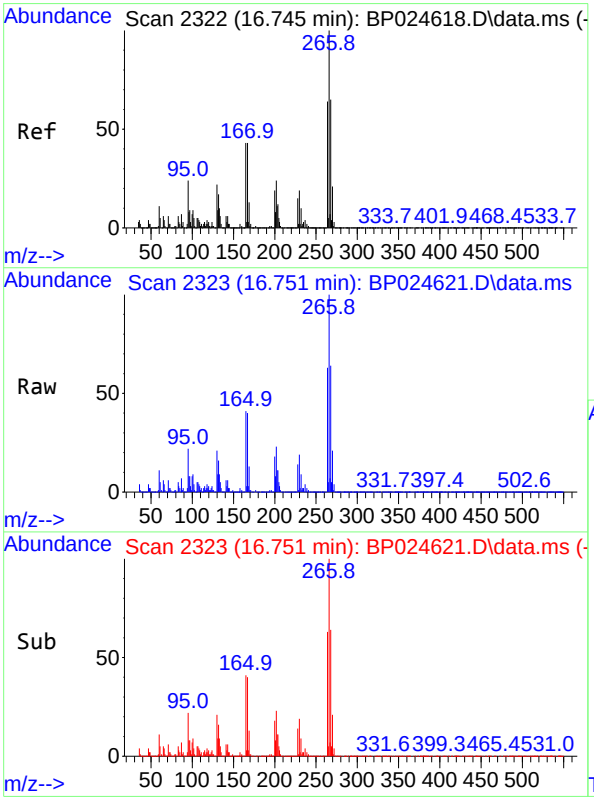
Ion	Ratio	Lower	Upper
200	100		
173	26.3	5.9	45.9
215	47.1	28.3	68.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

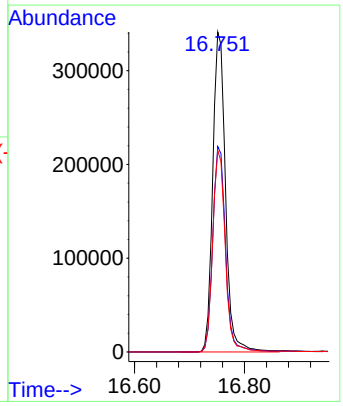
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

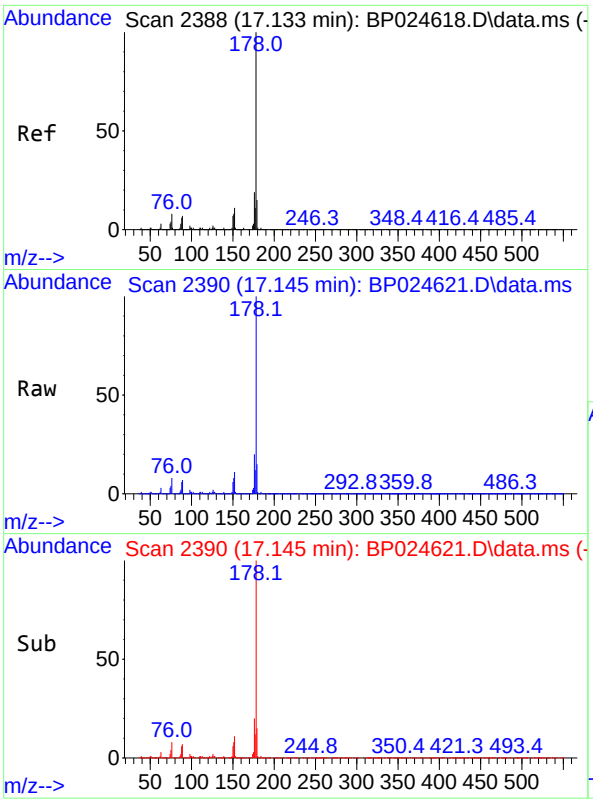


#70
Pentachlorophenol
Concen: 91.41 ng
RT: 16.751 min Scan# 2323
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:266 Resp: 548492

Ion	Ratio	Lower	Upper
266	100		
268	64.2	52.2	78.4
264	62.9	51.1	76.7

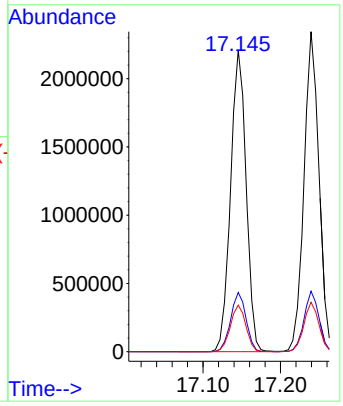




#71
Phenanthrene
Concen: 77.95 ng
RT: 17.145 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:178 Resp: 309166

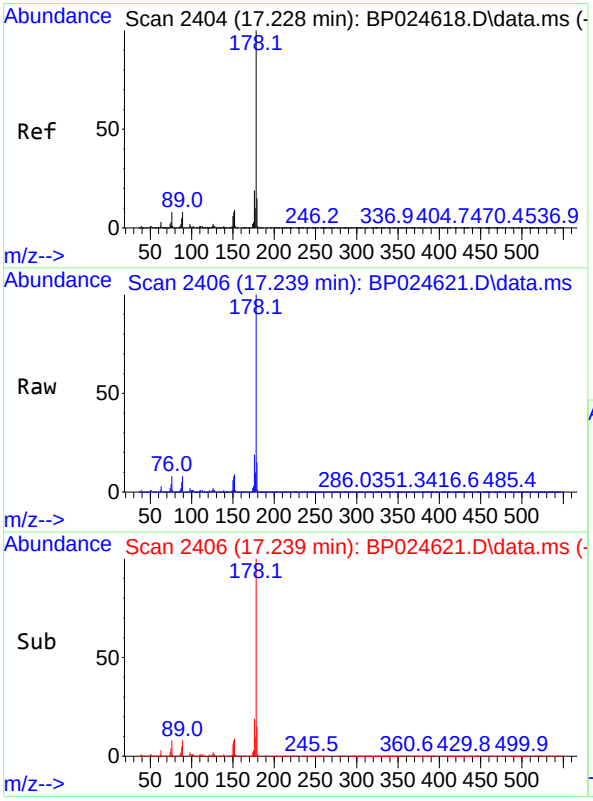
Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.4	23.2
179	15.4	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

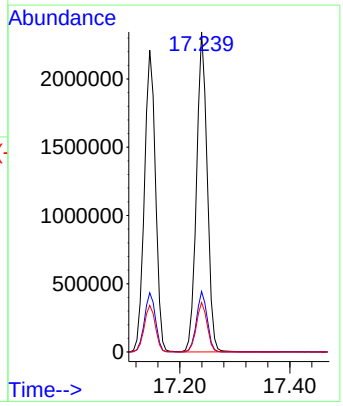
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

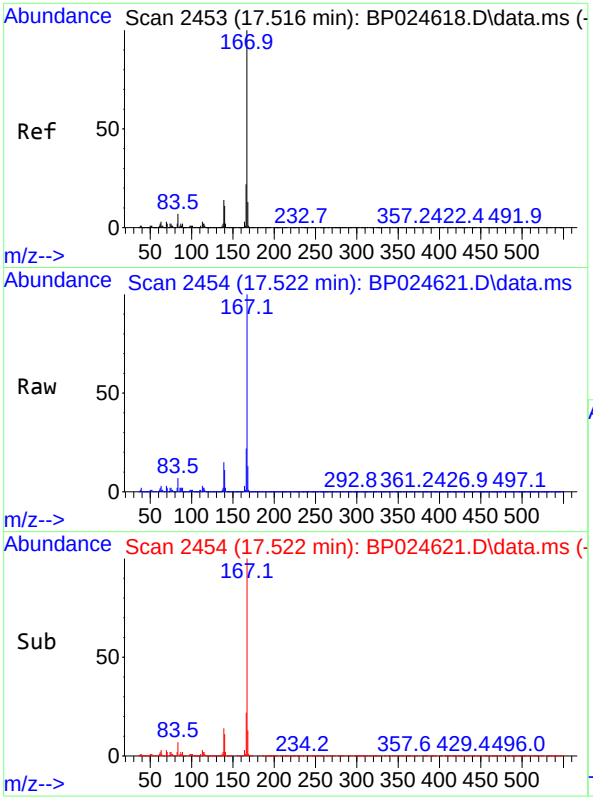


#72
Anthracene
Concen: 79.23 ng
RT: 17.239 min Scan# 2406
Delta R.T. 0.012 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:178 Resp: 3161669

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.4
179	15.5	12.2	18.2

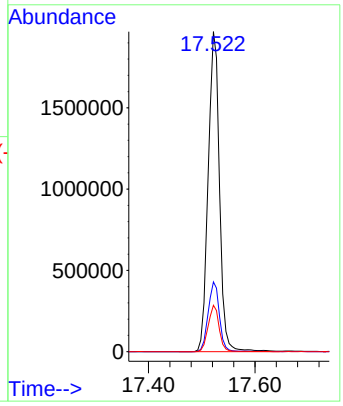




#73
Carbazole
Concen: 80.08 ng
RT: 17.522 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:167 Resp: 289223

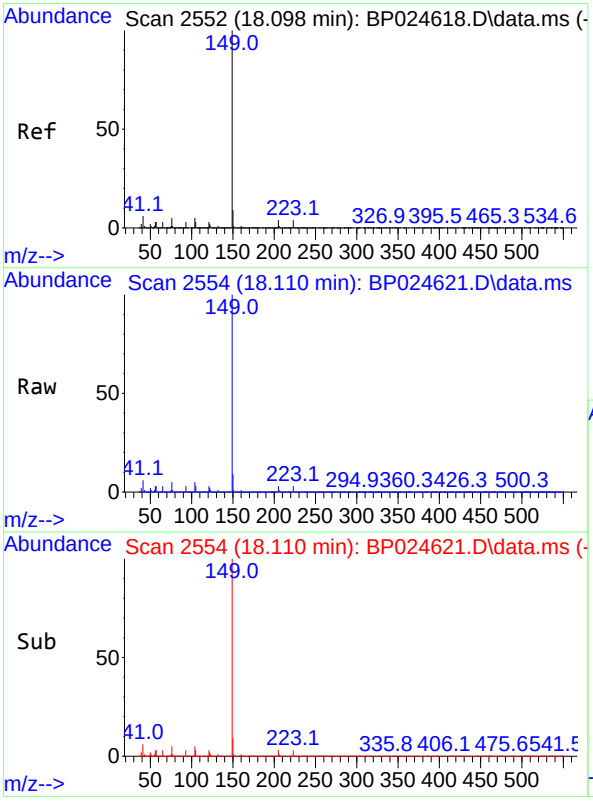
Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.7	26.5
139	14.5	11.3	16.9



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

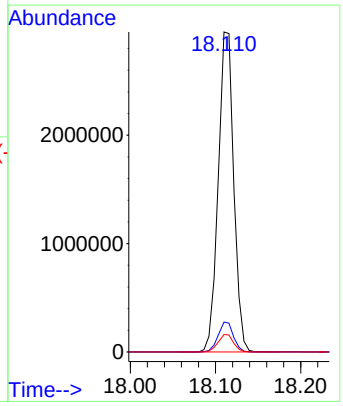
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

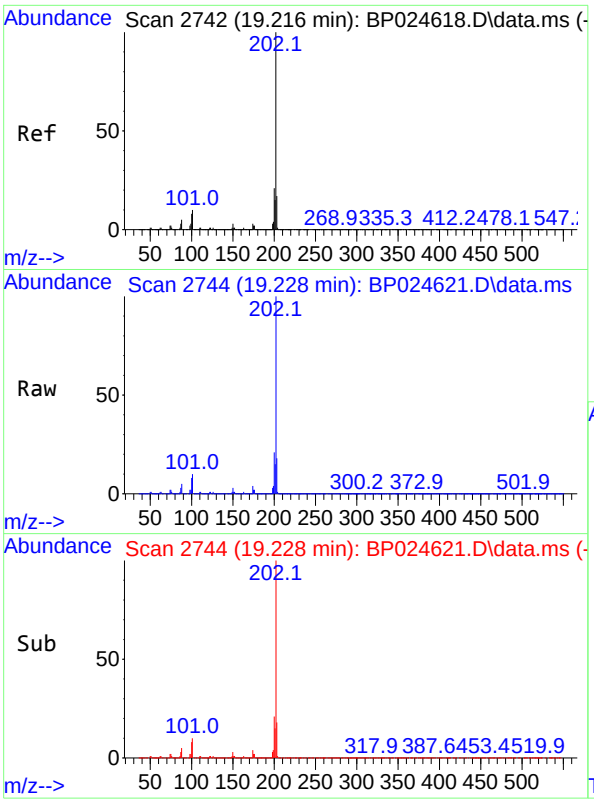


#74
Di-n-butylphthalate
Concen: 80.68 ng
RT: 18.110 min Scan# 2554
Delta R.T. 0.012 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:149 Resp: 3747927

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.2	10.8
104	5.5	4.3	6.5





#75
Fluoranthene
Concen: 78.27 ng
RT: 19.228 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

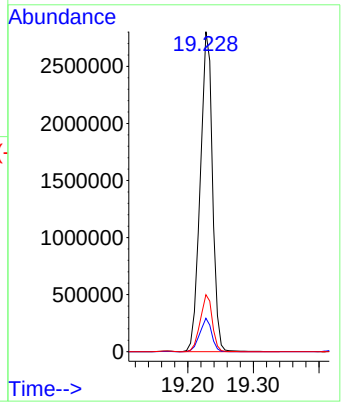
Tgt Ion:202 Resp: 362908

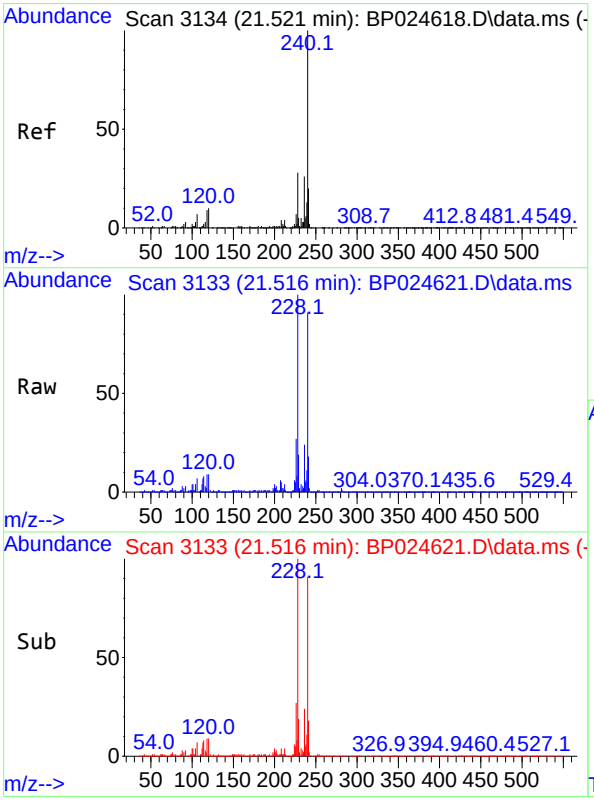
Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	30.3
203	17.8	0.0	37.5

Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

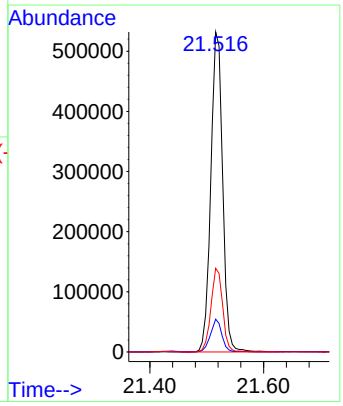


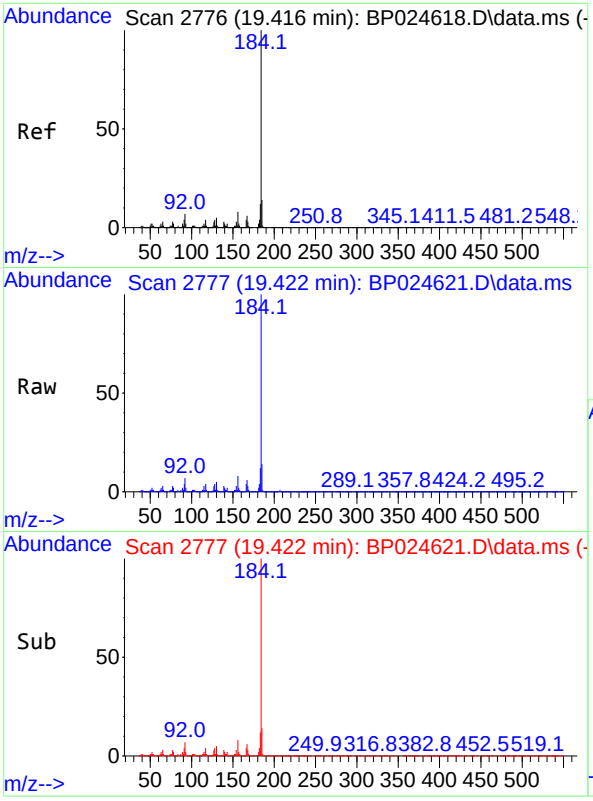


#76
Chrysene-d12
Concen: 20.00 ng
RT: 21.516 min Scan# 3133
Delta R.T. -0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:240 Resp: 765954

Ion	Ratio	Lower	Upper
240	100		
120	10.3	7.8	11.6
236	26.2	20.6	31.0

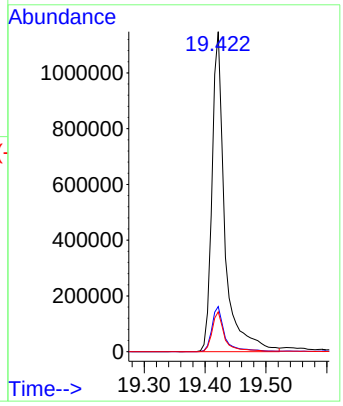




#77
Benzidine
Concen: 79.83 ng
RT: 19.422 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:184 Resp: 167850

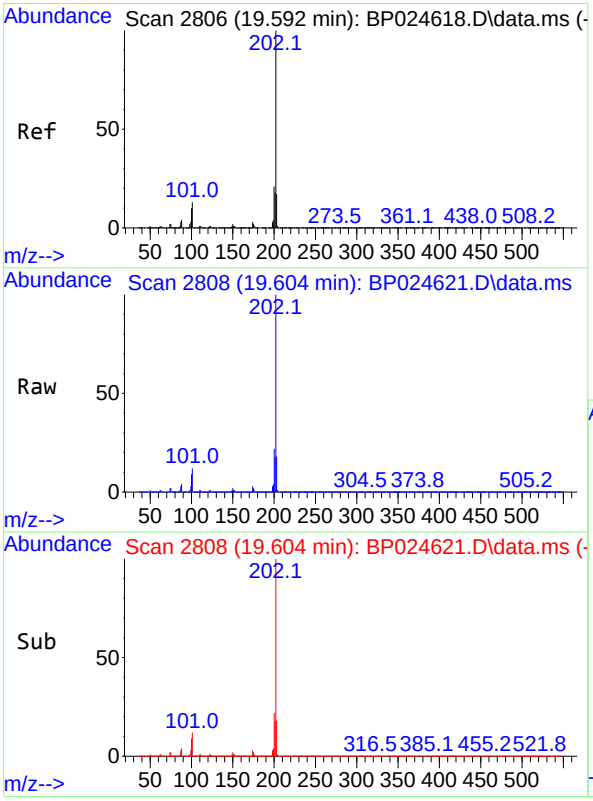
Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.2	16.8
183	12.4	9.8	14.8



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

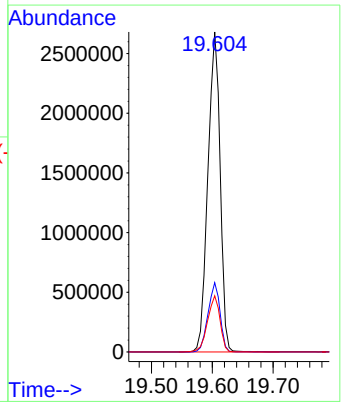
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

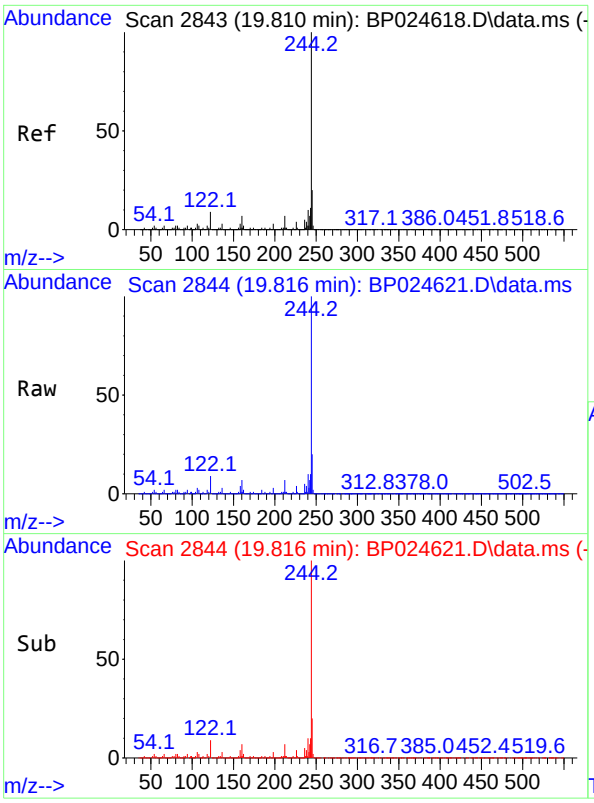


#78
Pyrene
Concen: 81.65 ng
RT: 19.604 min Scan# 2808
Delta R.T. 0.012 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:202 Resp: 3747276

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.9	25.3
203	17.6	13.9	20.9

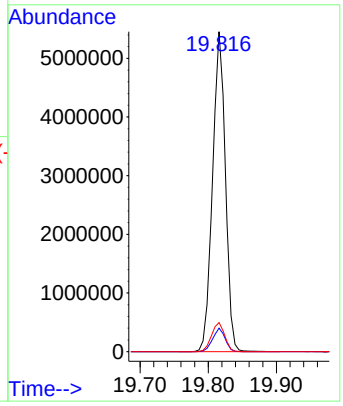




#79
Terphenyl-d14
Concen: 160.11 ng
RT: 19.816 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:244 Resp: 715225

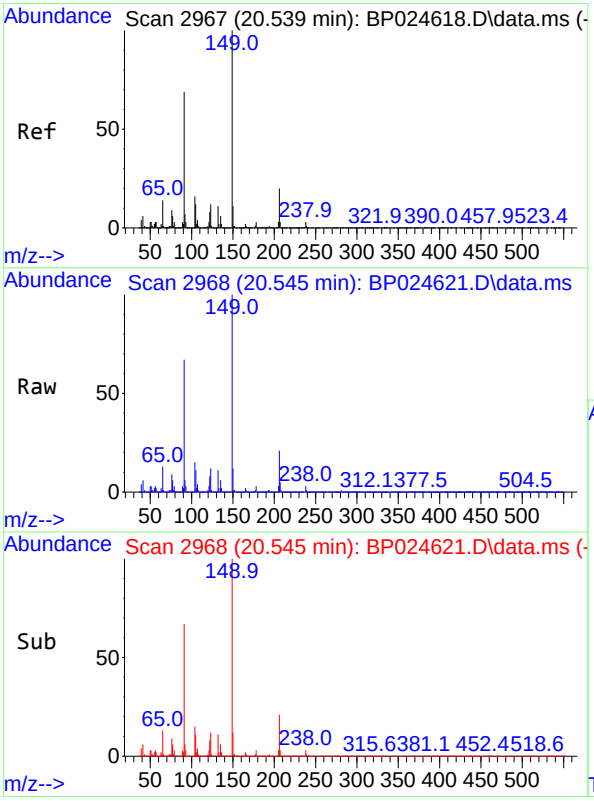
Ion	Ratio	Lower	Upper
244	100		
212	7.4	5.5	8.3
122	9.1	7.4	11.0



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

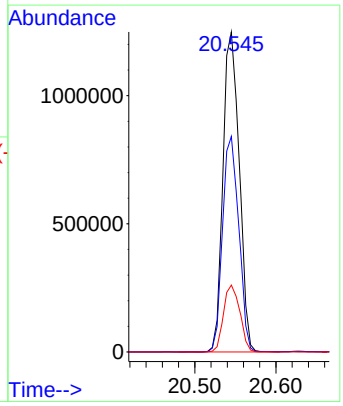
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

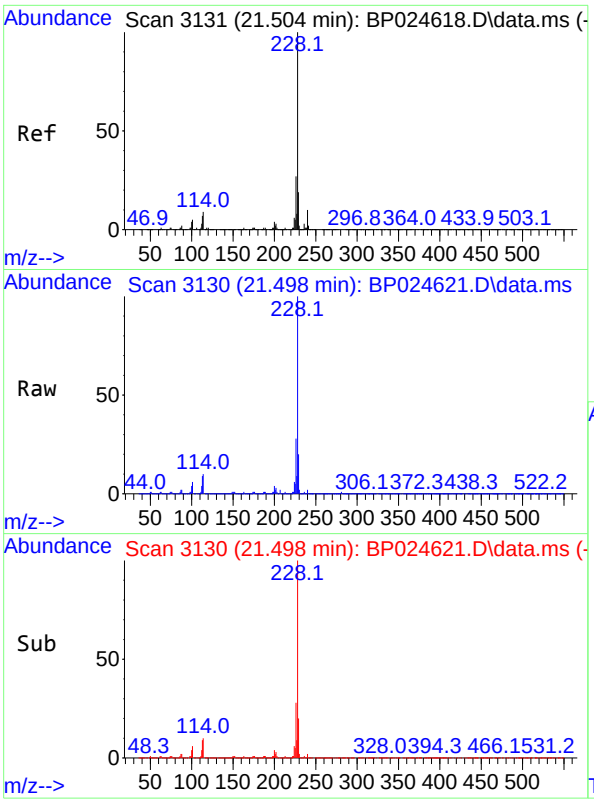


#80
Butylbenzylphthalate
Concen: 85.34 ng
RT: 20.545 min Scan# 2968
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:149 Resp: 1741954

Ion	Ratio	Lower	Upper
149	100		
91	67.3	55.4	83.0
206	20.9	16.2	24.2

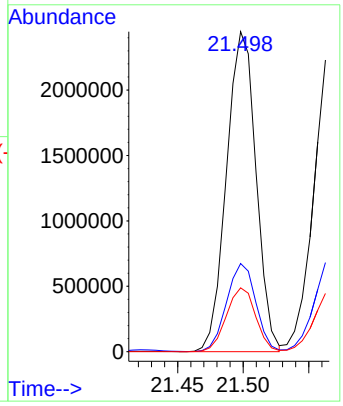




#81
Benzo(a)anthracene
Concen: 79.63 ng
RT: 21.498 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:228 Resp: 382978

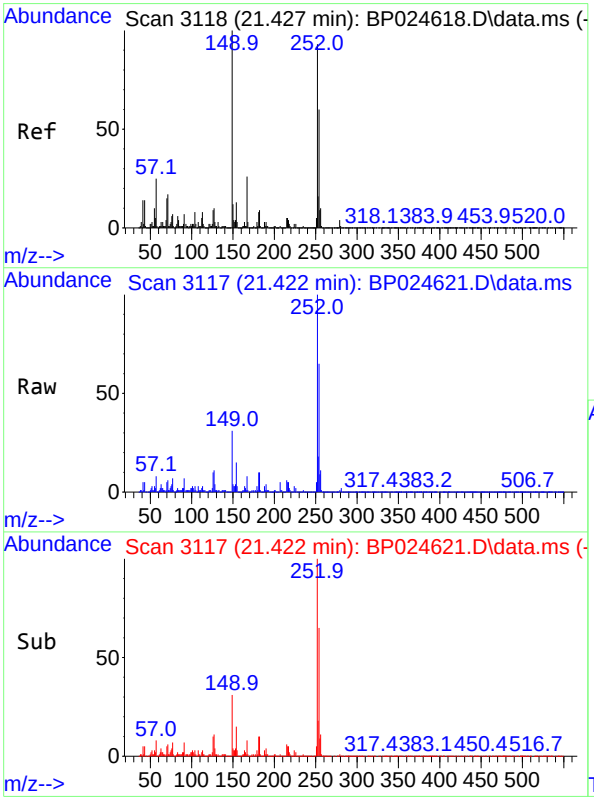
Ion	Ratio	Lower	Upper
228	100		
226	27.6	21.4	32.0
229	19.9	15.5	23.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

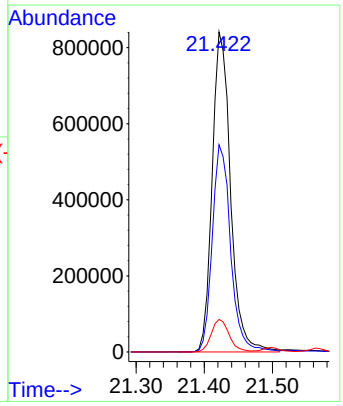
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

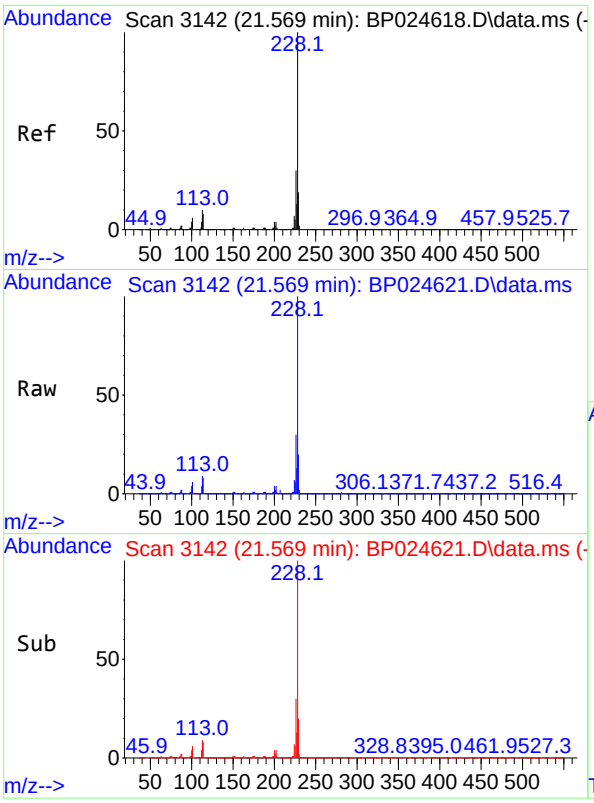


#82
3,3'-Dichlorobenzidine
Concen: 88.21 ng
RT: 21.422 min Scan# 3117
Delta R.T. -0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:252 Resp: 1575691

Ion	Ratio	Lower	Upper
252	100		
254	64.8	51.8	77.6
126	10.2	7.7	11.5

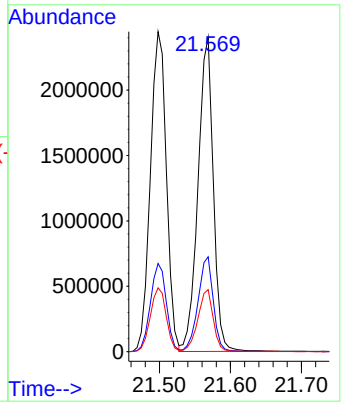




#83
Chrysene
Concen: 79.29 ng
RT: 21.569 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:228 Resp: 361501

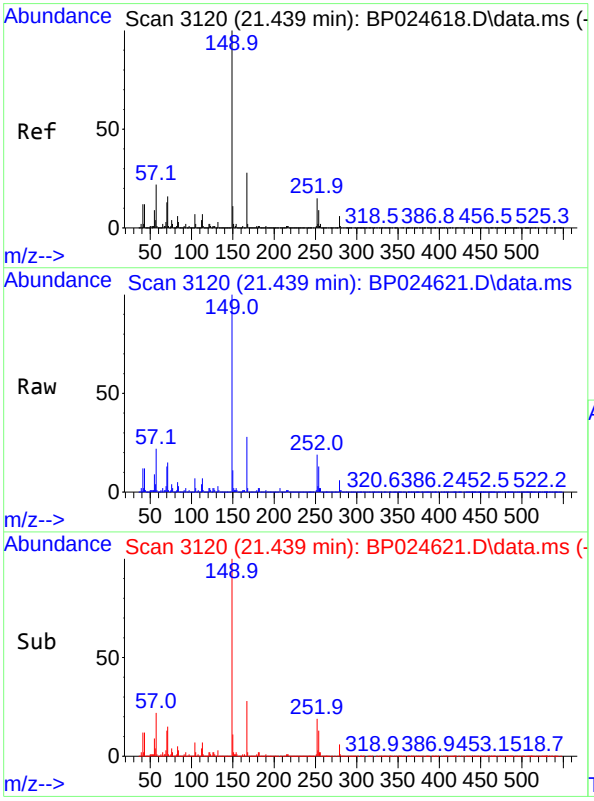
Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.9	35.9
229	19.7	15.5	23.3



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

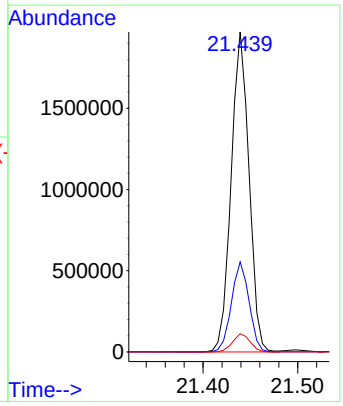
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

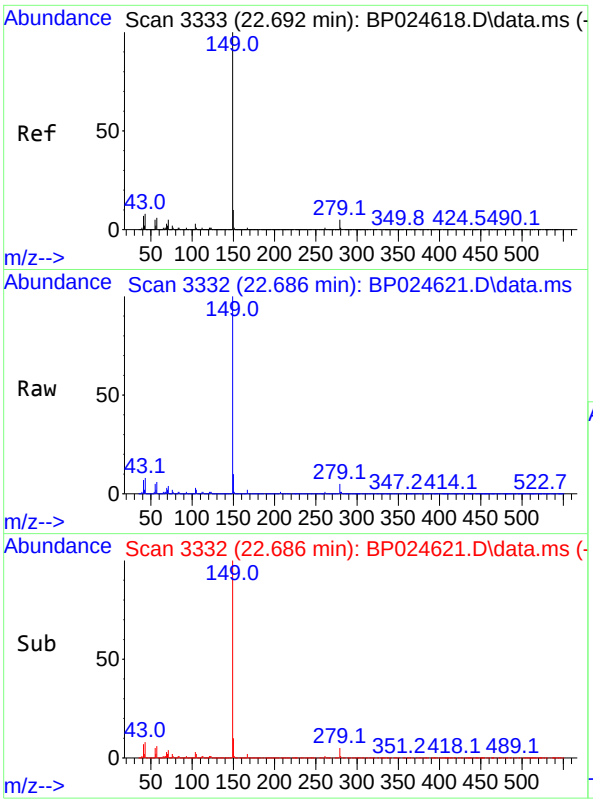


#84
Bis(2-ethylhexyl)phthalate
Concen: 85.91 ng
RT: 21.439 min Scan# 3120
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:149 Resp: 2577445

Ion	Ratio	Lower	Upper
149	100		
167	28.2	22.1	33.1
279	5.7	4.6	6.8

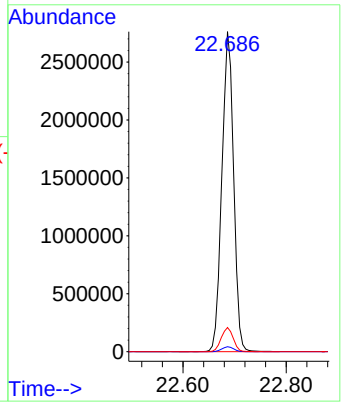




#85
Di-n-octyl phthalate
Concen: 88.50 ng
RT: 22.686 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:149 Resp: 434165

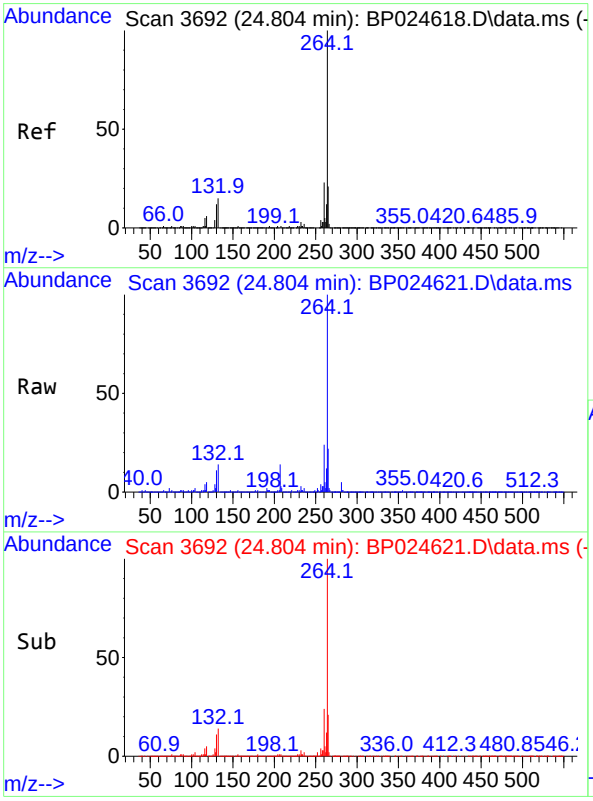
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.6	6.3	9.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

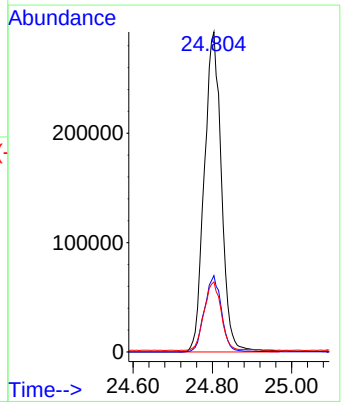
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

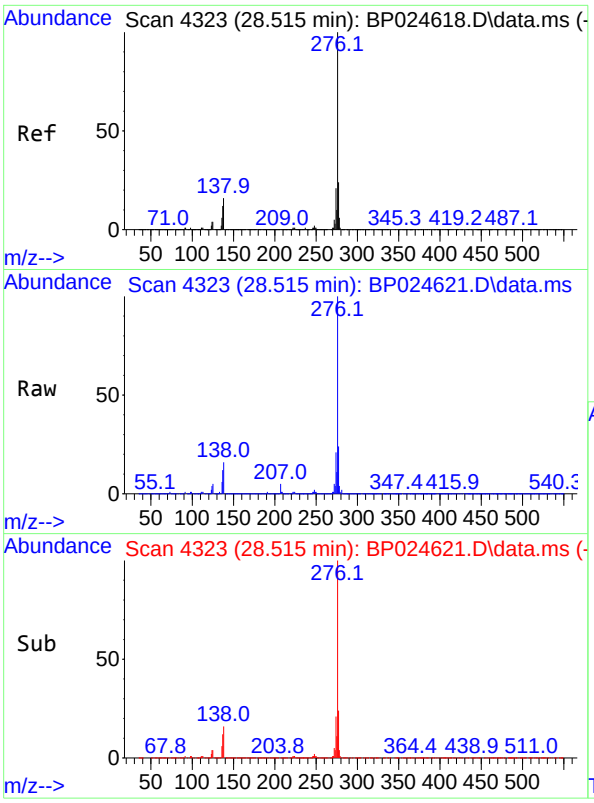


#86
Perylene-d12
Concen: 20.00 ng
RT: 24.804 min Scan# 3692
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:264 Resp: 877352

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.7	28.1
265	21.9	17.0	25.6

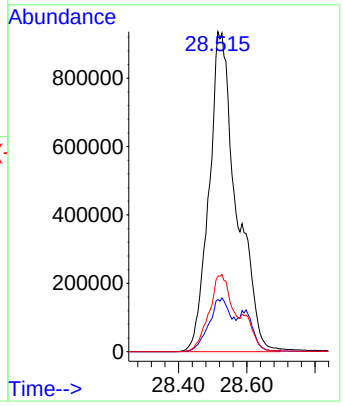




#87
Indeno(1,2,3-cd)pyrene
Concen: 81.85 ng m
RT: 28.515 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:276 Resp: 524399

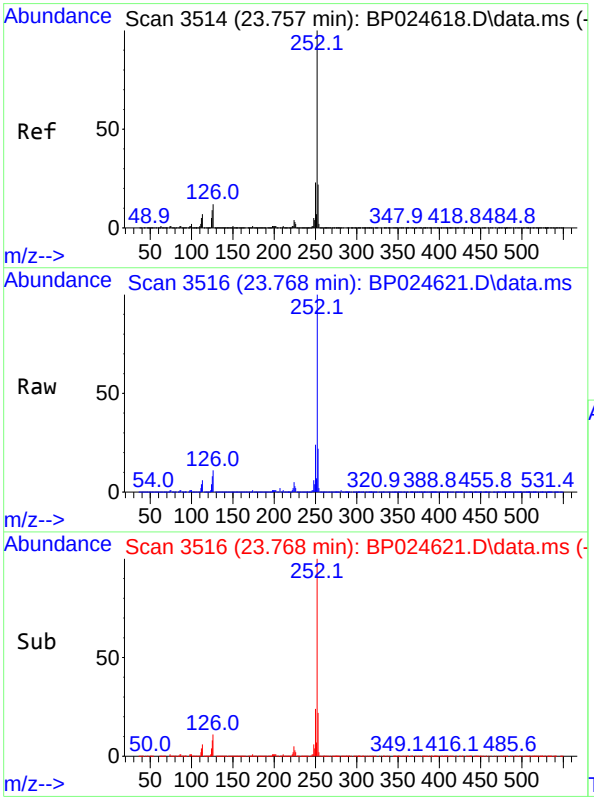
Ion	Ratio	Lower	Upper
276	100		
138	13.7	11.2	16.8
277	20.5	15.7	23.5



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

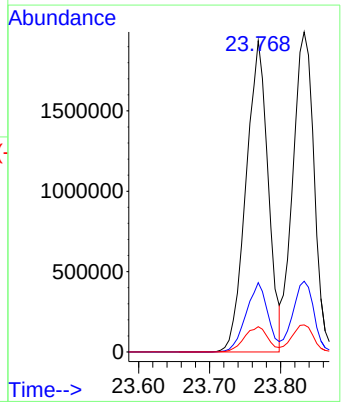
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

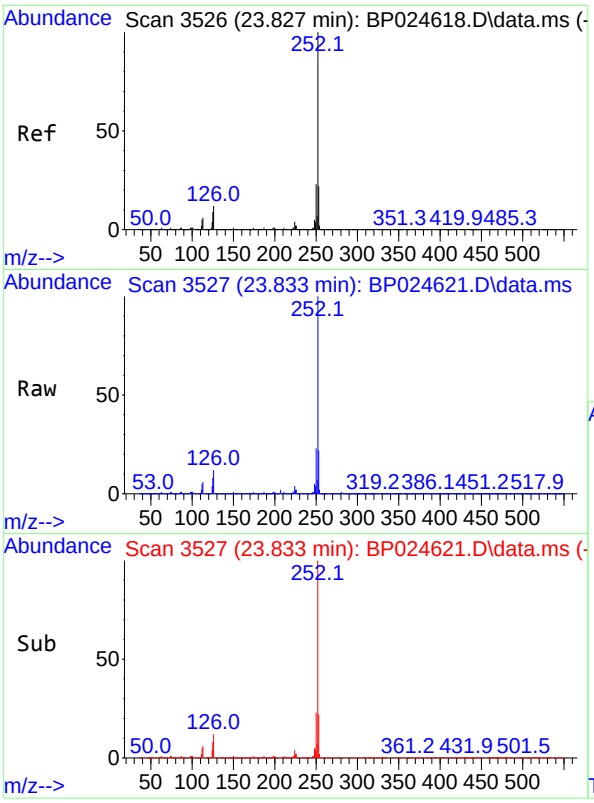


#88
Benzo(b)fluoranthene
Concen: 83.11 ng
RT: 23.768 min Scan# 3516
Delta R.T. 0.012 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:252 Resp: 4173798

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.7	26.5
125	8.2	7.5	11.3

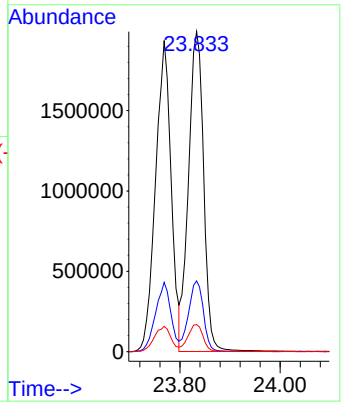




#89
Benzo(k)fluoranthene
Concen: 80.40 ng
RT: 23.833 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:252 Resp: 416026

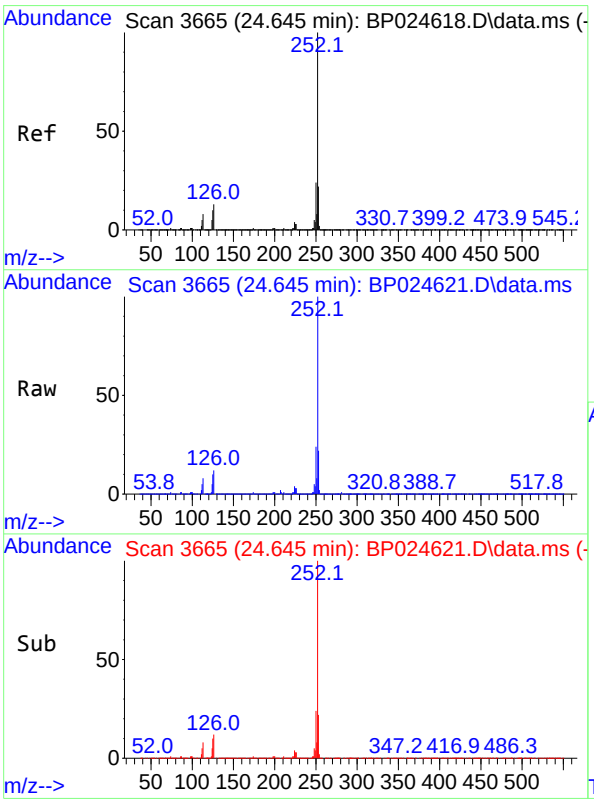
Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	8.5	7.0	10.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

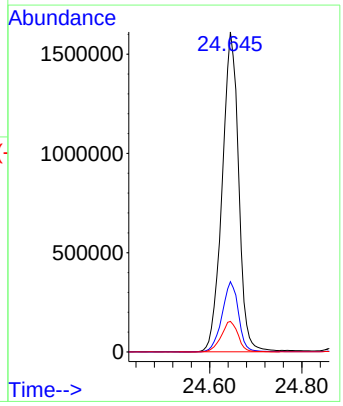
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

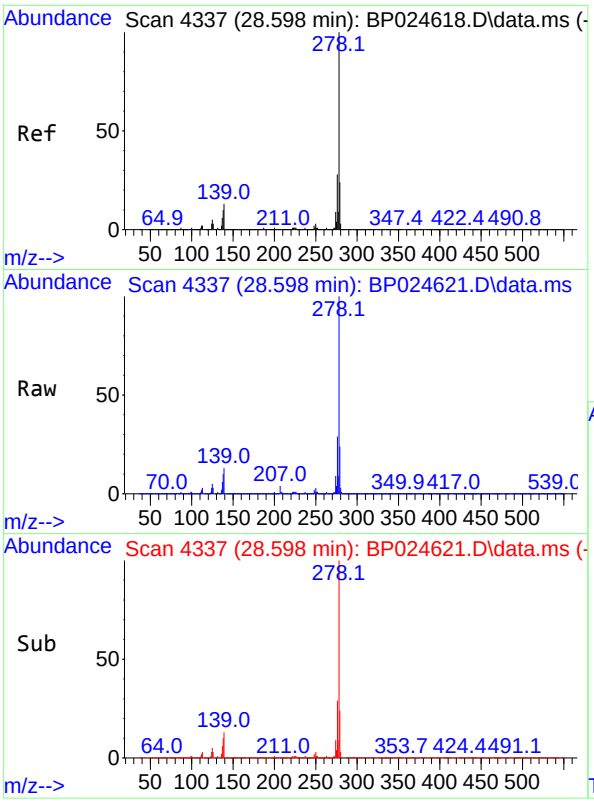


#90
Benzo(a)pyrene
Concen: 82.69 ng
RT: 24.645 min Scan# 3665
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:252 Resp: 3988360

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	9.5	8.1	12.1

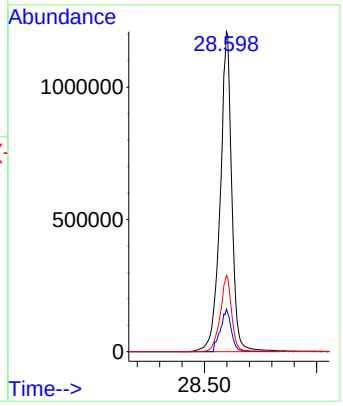




#91
Dibenzo(a,h)anthracene
Concen: 83.26 ng
RT: 28.598 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:278 Resp: 433851

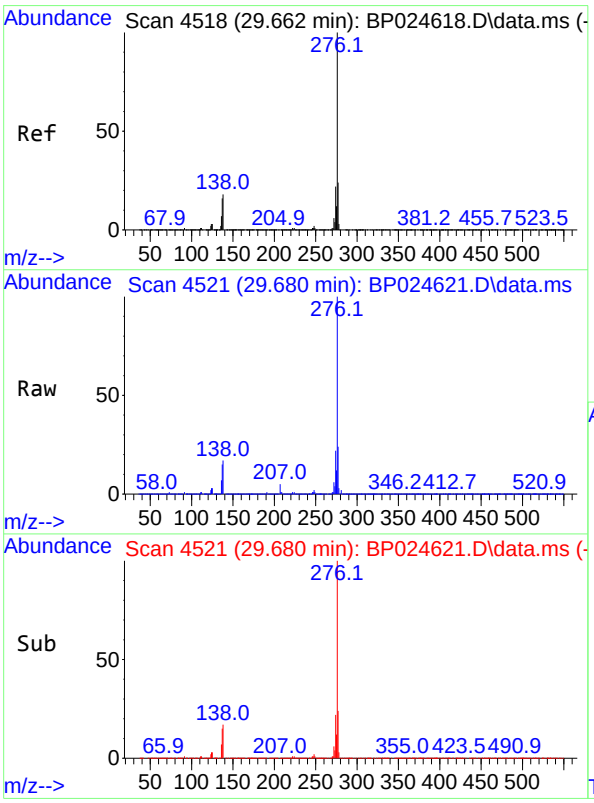
Ion	Ratio	Lower	Upper
278	100		
139	13.3	10.2	15.4
279	23.9	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

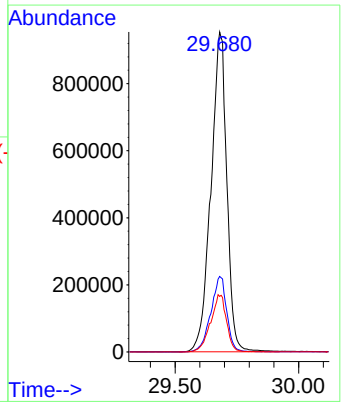
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025



#92
Benzo(g,h,i)perylene
Concen: 82.08 ng
RT: 29.680 min Scan# 4521
Delta R.T. 0.018 min
Lab File: BP024621.D
Acq: 13 May 2025 15:26

Tgt Ion:276 Resp: 4253459

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.0	28.4
138	17.3	14.4	21.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024622.D
Acq On : 13 May 2025 17:01
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.657	152	144423	20.00	ng	0.00
21) Naphthalene-d8	10.434	136	621777	20.00	ng	0.00
39) Acenaphthene-d10	14.292	164	391112	20.00	ng	-0.01
64) Phenanthrene-d10	17.092	188	780511	20.00	ng	0.00
76) Chrysene-d12	21.521	240	868822	20.00	ng	0.00
86) Perylene-d12	24.815	264	1015341	20.00	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	658249	77.95	ng	0.00
7) Phenol-d6	6.852	99	852330	79.09	ng	0.00
23) Nitrobenzene-d5	8.810	82	962660	78.23	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	520660	78.53	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	2290715	76.73	ng	0.00
79) Terphenyl-d14	19.822	244	3889002	76.75	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.222	88	145871	36.79	ng	99
3) Pyridine	3.622	79	347515	39.53	ng	97
4) n-Nitrosodimethylamine	3.528	42	147412	37.98	ng	98
6) Aniline	6.999	93	545556	39.21	ng	100
8) 2-Chlorophenol	7.234	128	377358	39.37	ng	97
9) Benzaldehyde	6.816	77	272303	39.03	ng	99
10) Phenol	6.881	94	434788	39.09	ng	99
11) bis(2-Chloroethyl)ether	7.093	93	346744	37.94	ng	99
12) 1,3-Dichlorobenzene	7.552	146	417899	37.89	ng	98
13) 1,4-Dichlorobenzene	7.699	146	420432	37.90	ng	99
14) 1,2-Dichlorobenzene	8.010	146	409587	37.90	ng	99
15) Benzyl Alcohol	7.904	79	332015	40.54	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.181	45	416339	38.04	ng	99
17) 2-Methylphenol	8.110	107	316066	39.62	ng	99
18) Hexachloroethane	8.728	117	158167	37.21	ng	99
19) n-Nitroso-di-n-propyla...	8.463	70	291961	39.16	ng	99
20) 3+4-Methylphenols	8.434	107	429326	39.56	ng	99
22) Acetophenone	8.475	105	597464	38.47	ng	99
24) Nitrobenzene	8.851	77	416985	38.50	ng	96
25) Isophorone	9.375	82	821637	38.49	ng	99
26) 2-Nitrophenol	9.557	139	218211	41.12	ng	95
27) 2,4-Dimethylphenol	9.622	122	369418	39.48	ng	100
28) bis(2-Chloroethoxy)met...	9.851	93	493722	38.71	ng	100
29) 2,4-Dichlorophenol	10.093	162	364373	40.19	ng	97
30) 1,2,4-Trichlorobenzene	10.298	180	389362	38.11	ng	98
31) Naphthalene	10.481	128	1226624	38.07	ng	100
32) Benzoic acid	9.781	122	223660	36.46	ng	98
33) 4-Chloroaniline	10.598	127	524873	40.37	ng	99
34) Hexachlorobutadiene	10.763	225	246776	37.29	ng	98
35) Caprolactam	11.387	113	130399	39.75	ng	99
36) 4-Chloro-3-methylphenol	11.740	107	431344	39.01	ng	100
37) 2-Methylnaphthalene	12.098	142	789724	37.85	ng	99
38) 1-Methylnaphthalene	12.316	142	833521	37.34	ng	100
40) 1,2,4,5-Tetrachloroben...	12.469	216	444420	39.13	ng	100
41) Hexachlorocyclopentadiene	12.445	237	305575	44.37	ng	98
43) 2,4,6-Trichlorophenol	12.716	196	305651	41.55	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024622.D
Acq On : 13 May 2025 17:01
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	336252	41.06	ng	97
46) 1,1'-Biphenyl	13.116	154	1124669	38.91	ng	99
47) 2-Chloronaphthalene	13.157	162	864853	39.24	ng	98
48) 2-Nitroaniline	13.369	65	264965	40.60	ng	97
49) Acenaphthylene	14.010	152	1419821	38.49	ng	100
50) Dimethylphthalate	13.751	163	1155211	38.75	ng	99
51) 2,6-Dinitrotoluene	13.875	165	247537	39.32	ng	99
52) Acenaphthene	14.357	154	803755	37.90	ng	99
53) 3-Nitroaniline	14.210	138	262737	40.87	ng	100
54) 2,4-Dinitrophenol	14.428	184	135624	37.83	ng	96
55) Dibenzofuran	14.698	168	1282228	37.91	ng	99
56) 4-Nitrophenol	14.545	139	202528	38.70	ng	97
57) 2,4-Dinitrotoluene	14.675	165	354817	39.97	ng	99
58) Fluorene	15.357	166	1059642	38.42	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.934	232	298327	39.27	ng	99
60) Diethylphthalate	15.134	149	1150091	38.17	ng	100
61) 4-Chlorophenyl-phenyle...	15.357	204	526066	38.25	ng	99
62) 4-Nitroaniline	15.398	138	265185	42.72	ng	98
63) Azobenzene	15.657	77	1000653	38.82	ng	98
65) 4,6-Dinitro-2-methylph...	15.451	198	203200	40.30	ng	98
66) n-Nitrosodiphenylamine	15.575	169	920187	38.38	ng	100
67) 4-Bromophenyl-phenylether	16.269	248	357846	38.91	ng	97
68) Hexachlorobenzene	16.386	284	446142	38.18	ng	99
69) Atrazine	16.551	200	347661	39.57	ng	99
70) Pentachlorophenol	16.739	266	269781	41.12	ng	99
71) Phenanthrene	17.133	178	1629118	37.55	ng	99
72) Anthracene	17.228	178	1669395	38.24	ng	100
73) Carbazole	17.510	167	1563685	39.57	ng	99
74) Di-n-butylphthalate	18.098	149	1978741	38.94	ng	100
75) Fluoranthene	19.222	202	1956043	38.57	ng	100
77) Benzidine	19.422	184	1023514	43.25	ng	99
78) Pyrene	19.604	202	1992845	38.28	ng	100
80) Butylbenzylphthalate	20.557	149	938210	40.52	ng	96
81) Benzo(a)anthracene	21.510	228	2121561	38.89	ng	99
82) 3,3'-Dichlorobenzidine	21.433	252	861323	42.51	ng	100
83) Chrysene	21.574	228	1976940	38.23	ng	99
84) Bis(2-ethylhexyl)phtha...	21.445	149	1375919	40.43	ng	100
85) Di-n-octyl phthalate	22.698	149	2321673	41.72	ng	100
87) Indeno(1,2,3-cd)pyrene	28.515	276	2879864m	38.85	ng	
88) Benzo(b)fluoranthene	23.768	252	2283322	39.29	ng	100
89) Benzo(k)fluoranthene	23.833	252	2289000	38.22	ng	100
90) Benzo(a)pyrene	24.668	252	2177020	39.00	ng	99
91) Dibenzo(a,h)anthracene	28.615	278	2374558	39.38	ng	100
92) Benzo(g,h,i)perylene	29.686	276	2333151	38.91	ng	100

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

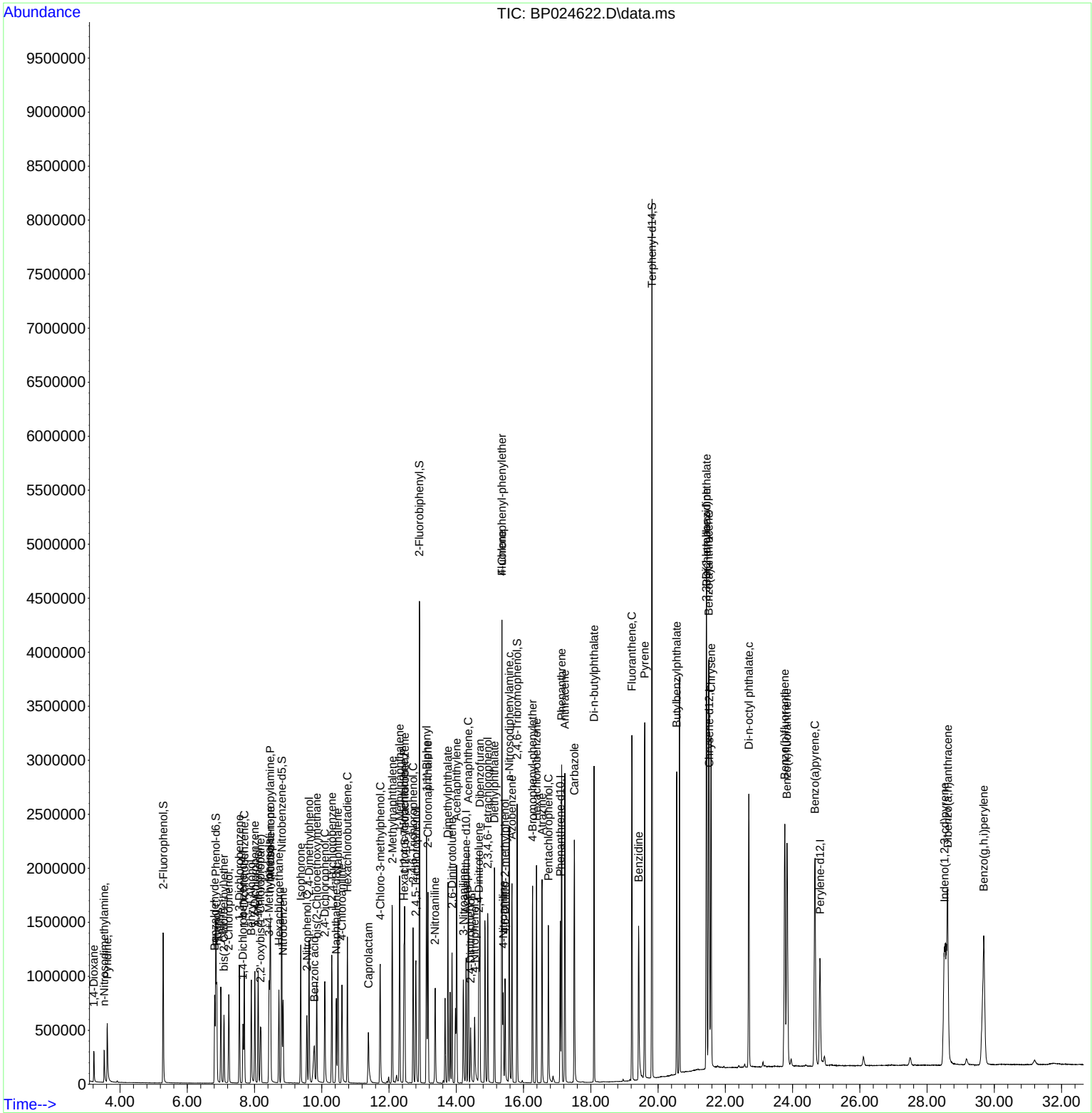
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024622.D
Acq On : 13 May 2025 17:01
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

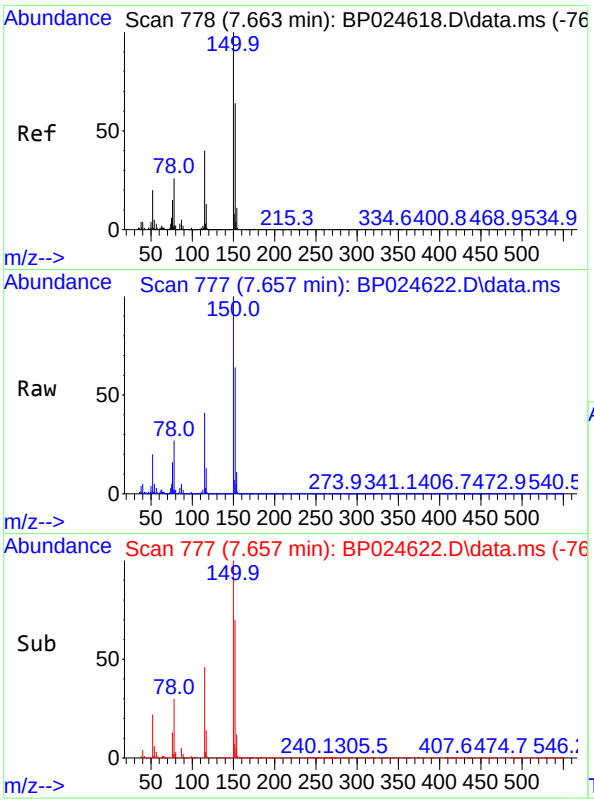
Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

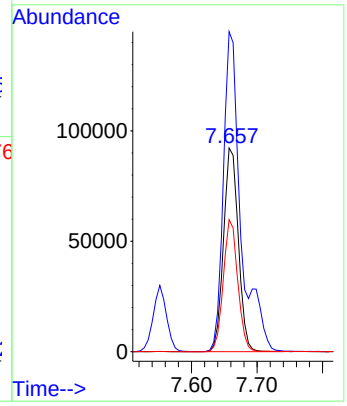




#1
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 7.657 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:152 Resp: 14442

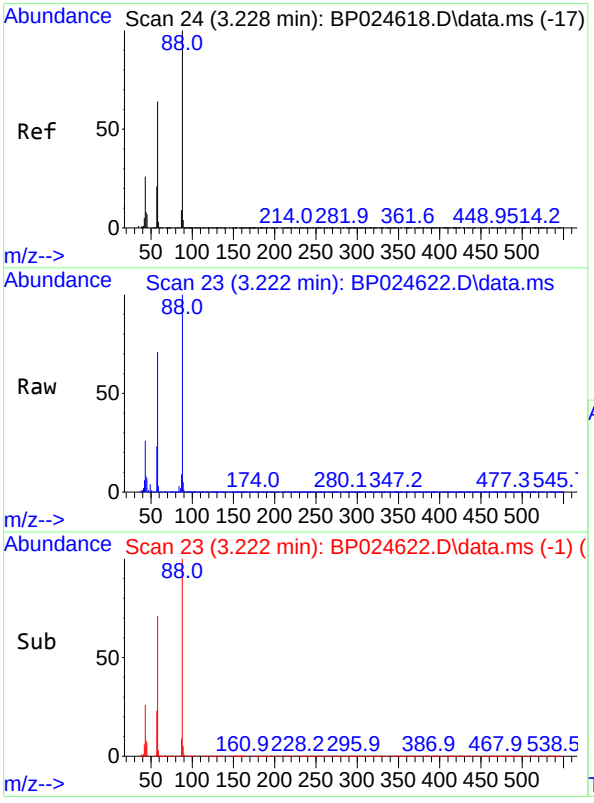
Ion	Ratio	Lower	Upper
152	100		
150	157.1	125.9	188.9
115	64.8	50.1	75.1



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

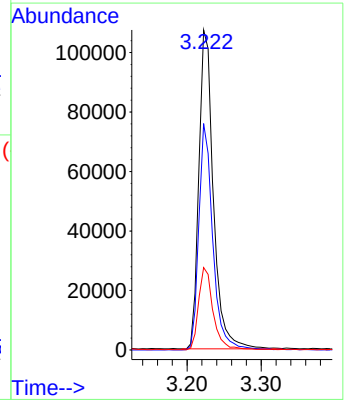
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

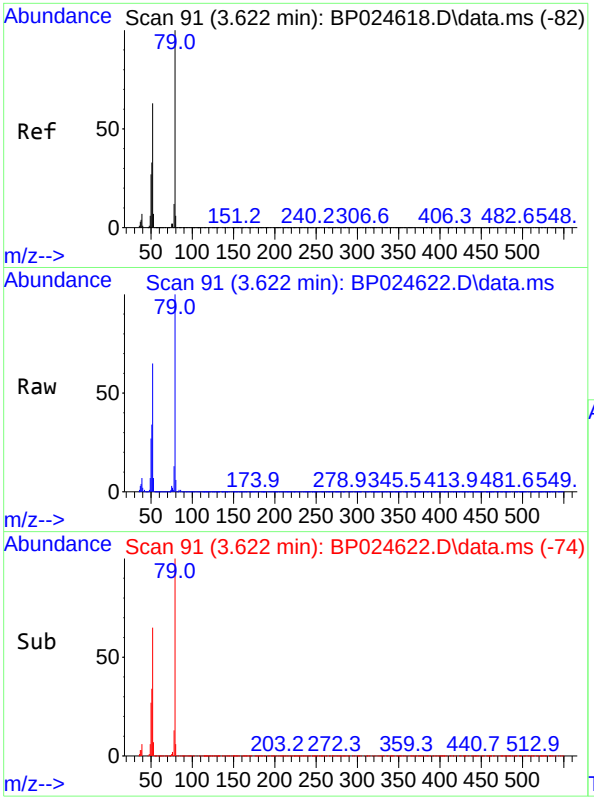


#2
1,4-Dioxane
Concen: 36.79 ng
RT: 3.222 min Scan# 23
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 88 Resp: 145871

Ion	Ratio	Lower	Upper
88	100		
58	68.6	54.0	81.0
43	25.9	21.4	32.0

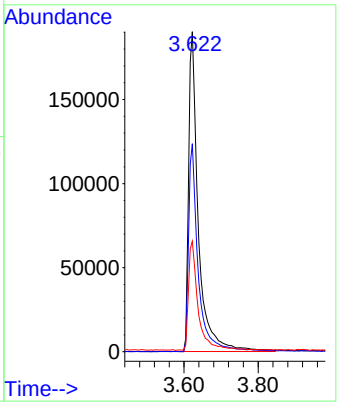




#3
Pyridine
Concen: 39.53 ng
RT: 3.622 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 79 Resp: 34751

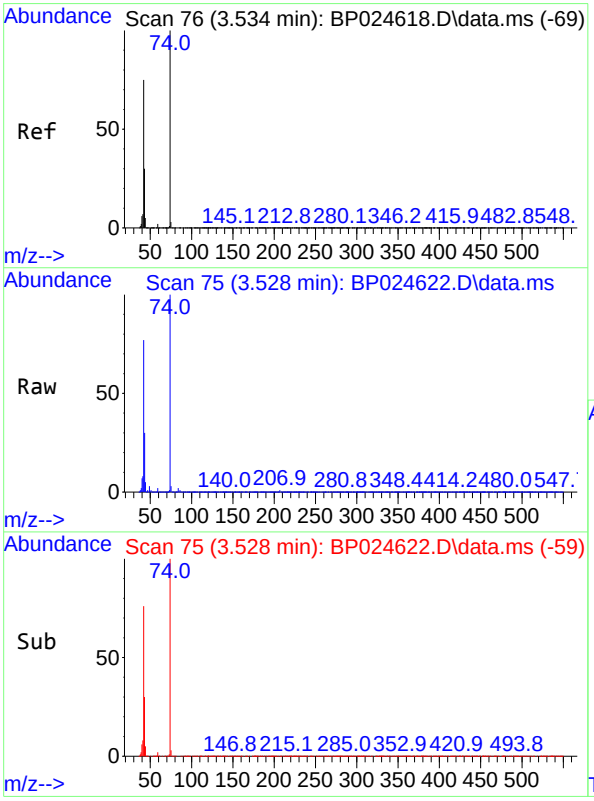
Ion	Ratio	Lower	Upper
79	100		
52	65.0	50.2	75.2
51	34.5	26.8	40.2



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

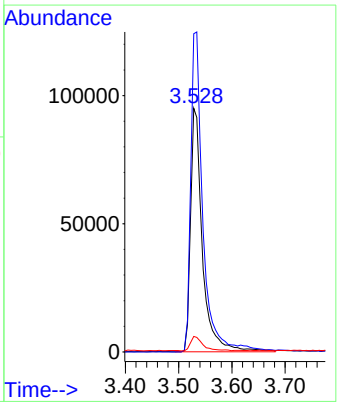
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

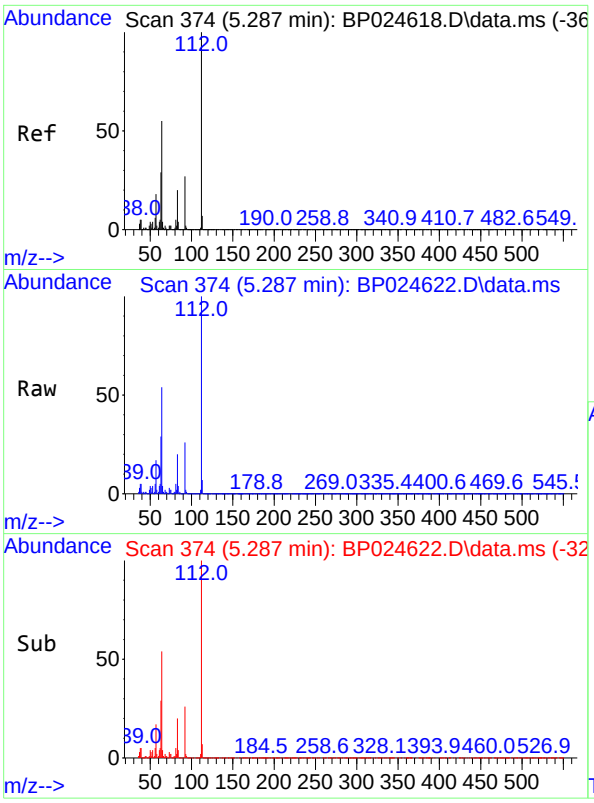


#4
n-Nitrosodimethylamine
Concen: 37.98 ng
RT: 3.528 min Scan# 75
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 42 Resp: 147412

Ion	Ratio	Lower	Upper
42	100		
74	130.6	106.2	159.2
44	6.4	5.4	8.2

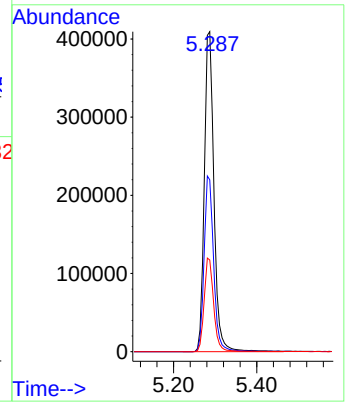




#5
2-Fluorophenol
Concen: 77.95 ng
RT: 5.287 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:112 Resp: 65824

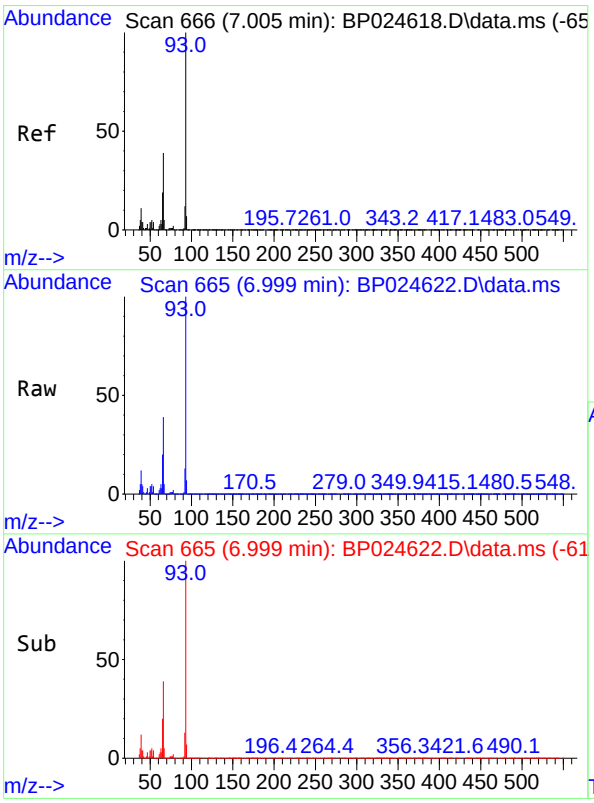
Ion	Ratio	Lower	Upper
112	100		
64	53.7	44.1	66.1
63	28.7	23.5	35.3



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

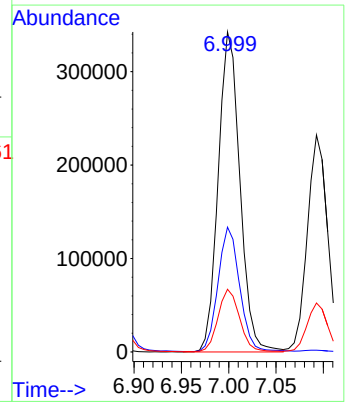
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

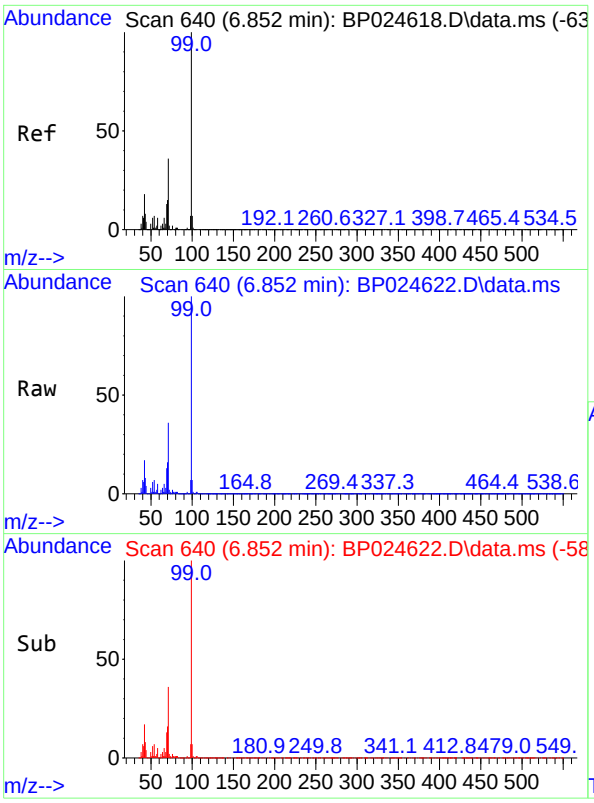


#6
Aniline
Concen: 39.21 ng
RT: 6.999 min Scan# 665
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 93 Resp: 545556

Ion	Ratio	Lower	Upper
93	100		
66	39.0	31.0	46.6
65	19.6	15.5	23.3

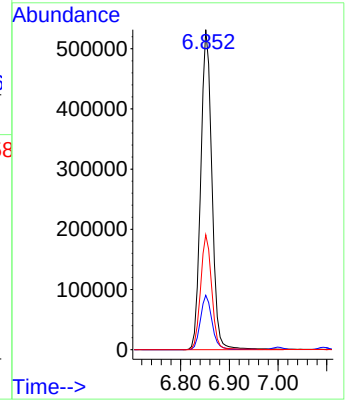




#7
Phenol-d6
Concen: 79.09 ng
RT: 6.852 min Scan# 64
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 99 Resp: 85233

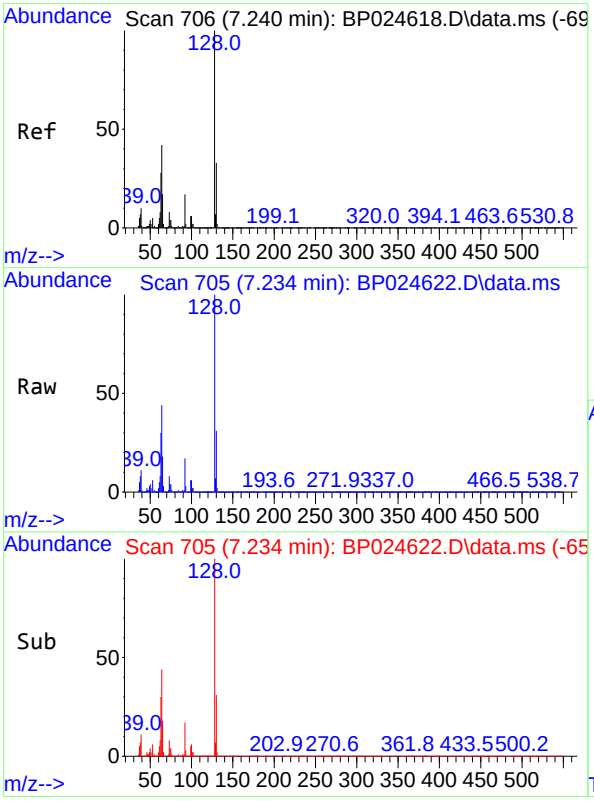
Ion	Ratio	Lower	Upper
99	100		
42	17.0	14.4	21.6
71	35.9	29.2	43.8



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

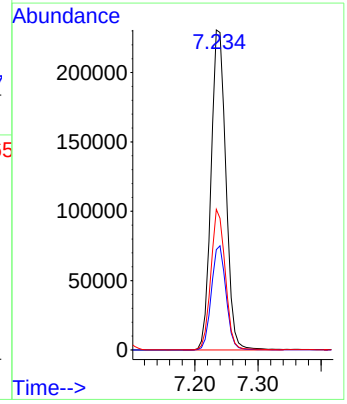
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

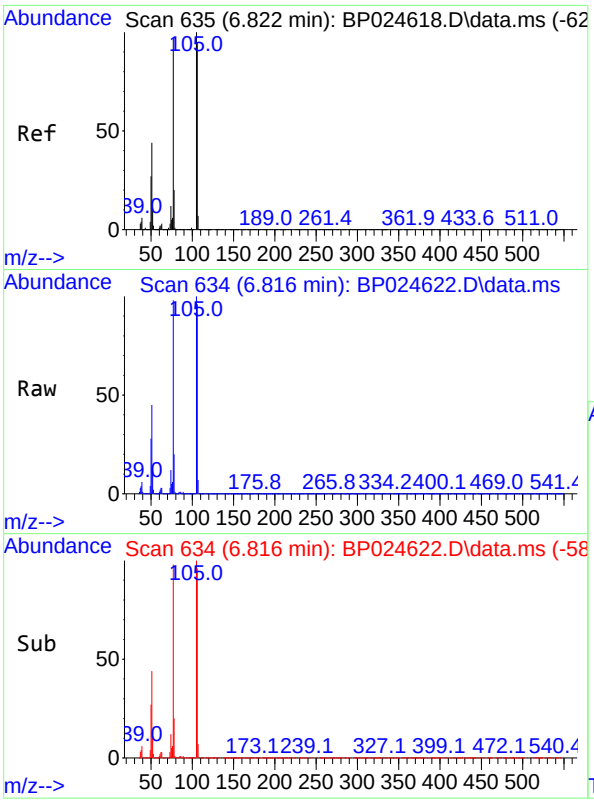


#8
2-Chlorophenol
Concen: 39.37 ng
RT: 7.234 min Scan# 705
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:128 Resp: 377358

Ion	Ratio	Lower	Upper
128	100		
130	31.4	13.0	53.0
64	43.9	22.3	62.3

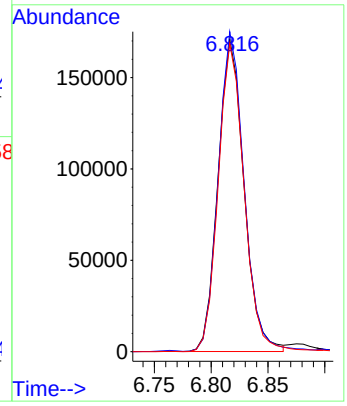




#9
Benzaldehyde
Concen: 39.03 ng
RT: 6.816 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 77 Resp: 27230

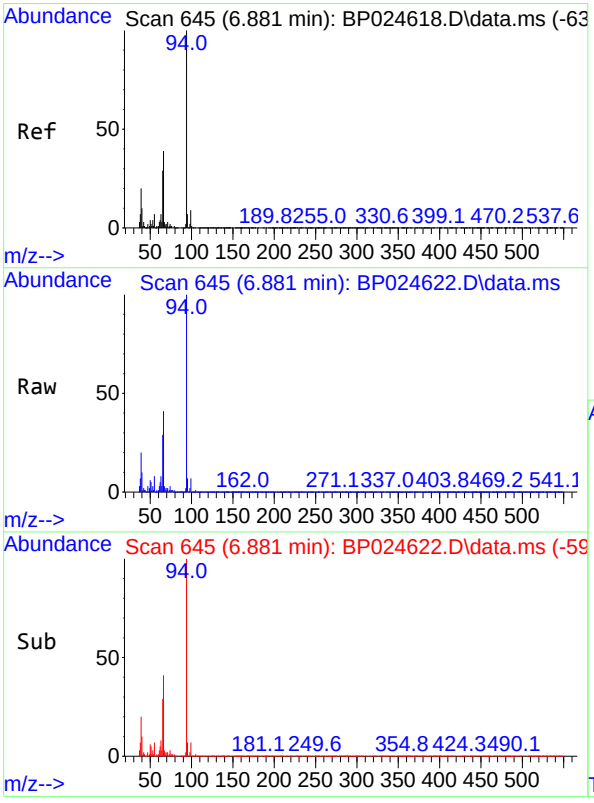
Ion	Ratio	Lower	Upper
77	100		
105	102.4	83.3	123.3
106	98.5	78.0	118.0



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

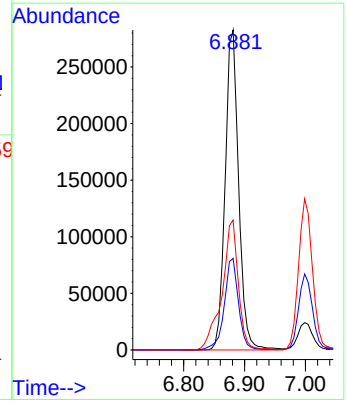
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

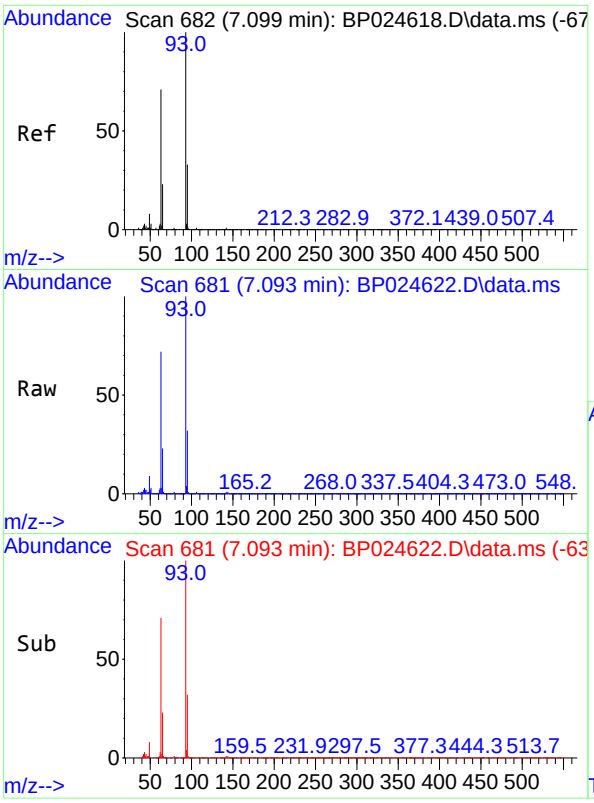


#10
Phenol
Concen: 39.09 ng
RT: 6.881 min Scan# 645
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 94 Resp: 434788

Ion	Ratio	Lower	Upper
94	100		
65	28.6	8.7	48.7
66	40.5	19.4	59.4

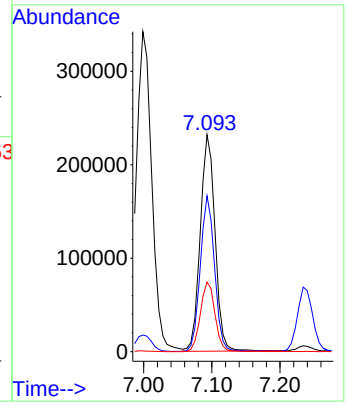




#11
bis(2-Chloroethyl)ether
Concen: 37.94 ng
RT: 7.093 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 93 Resp: 34674

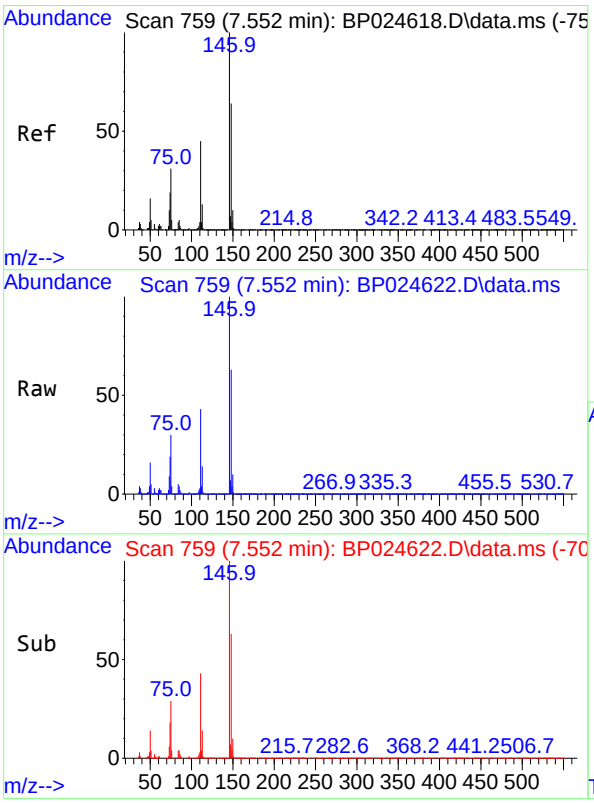
Ion	Ratio	Lower	Upper
93	100		
63	71.9	50.6	90.6
95	32.1	12.9	52.9



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

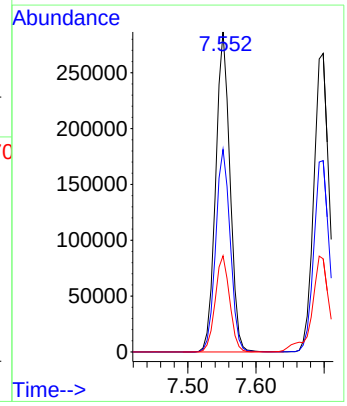
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

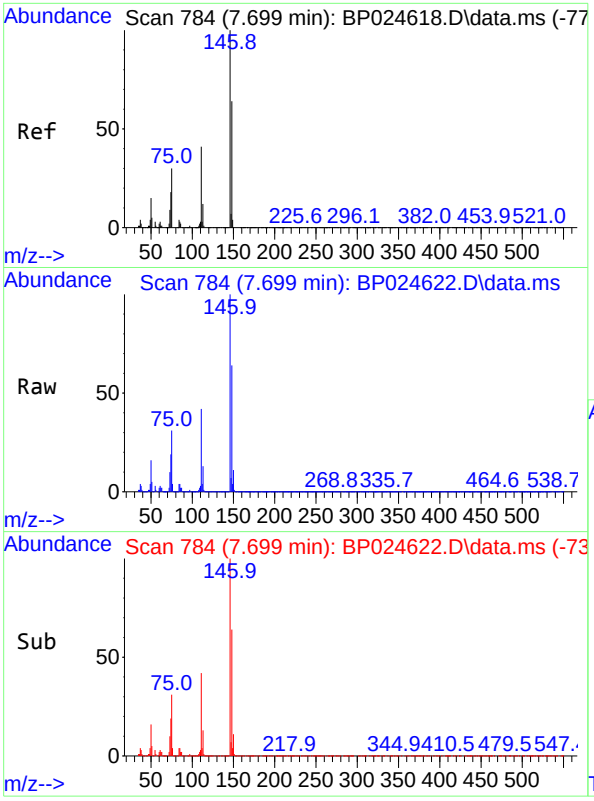


#12
1,3-Dichlorobenzene
Concen: 37.89 ng
RT: 7.552 min Scan# 759
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:146 Resp: 417899

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.4	77.2
75	30.1	25.2	37.8

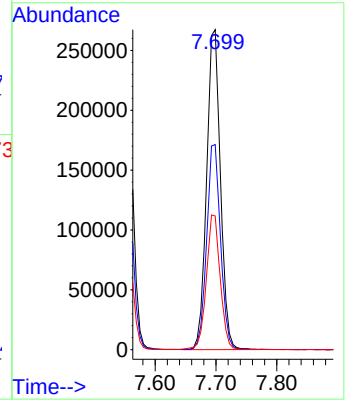




#13
1,4-Dichlorobenzene
Concen: 37.90 ng
RT: 7.699 min Scan# 7
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:146 Resp: 42043

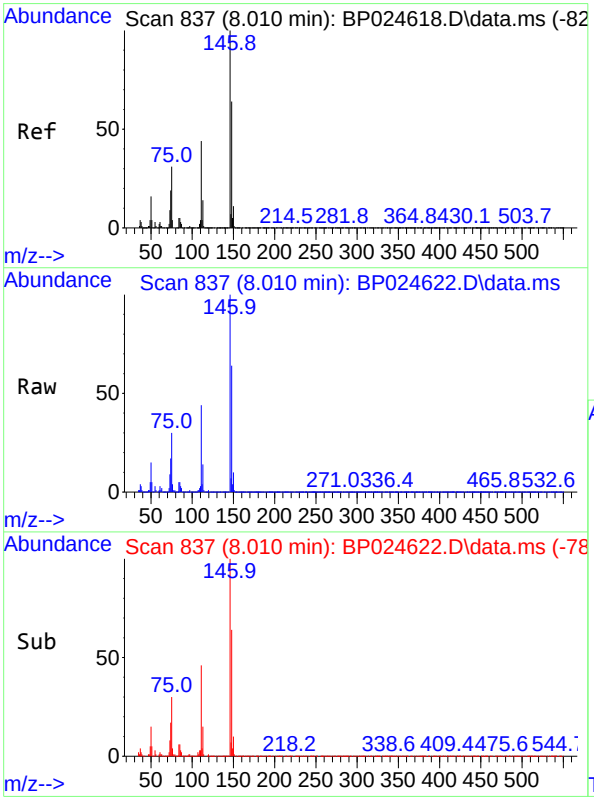
Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.0	76.6
111	41.8	33.0	49.6



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

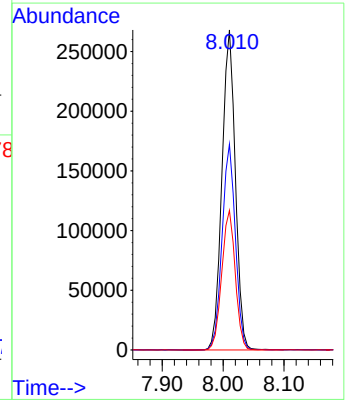
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

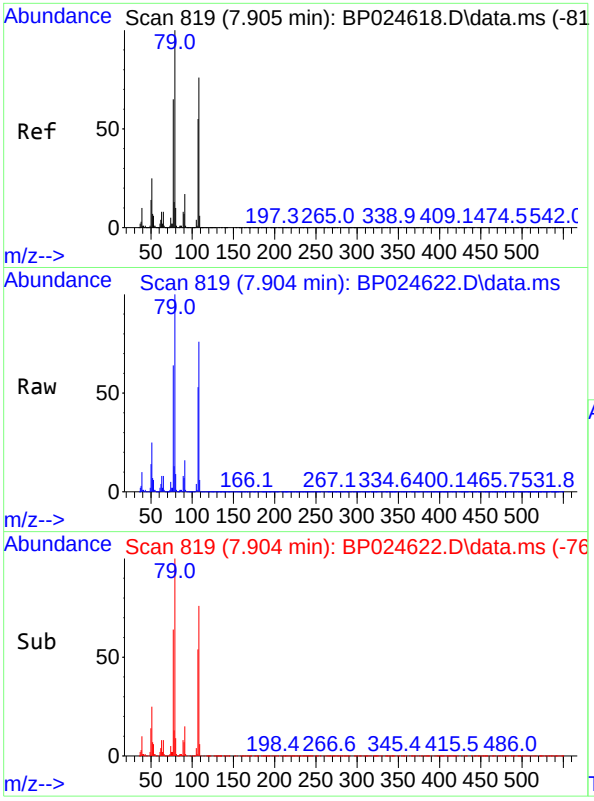


#14
1,2-Dichlorobenzene
Concen: 37.90 ng
RT: 8.010 min Scan# 837
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:146 Resp: 409587

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.0	76.4
111	43.6	35.2	52.8





#15
Benzyl Alcohol
Concen: 40.54 ng
RT: 7.904 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

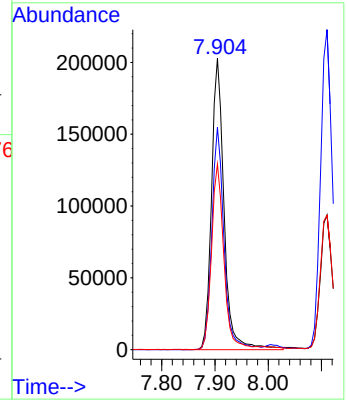
Tgt Ion: 79 Resp: 33201

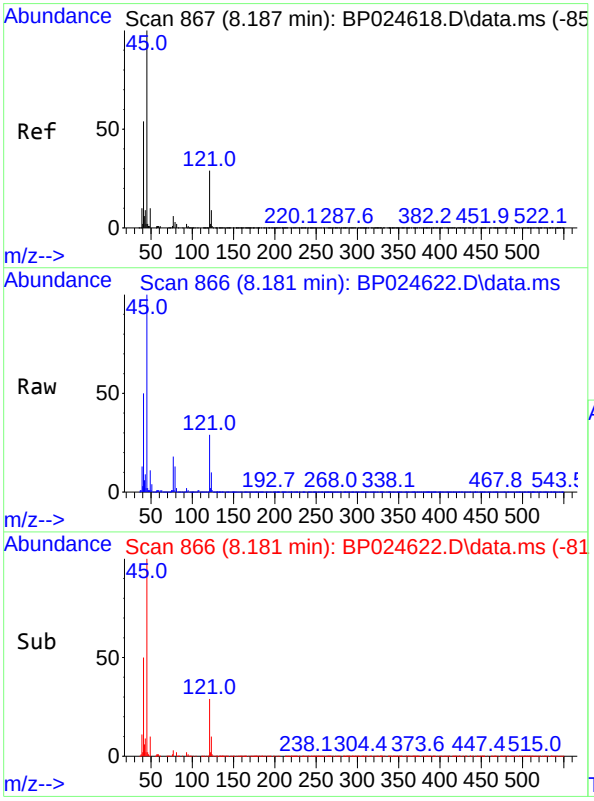
Ion	Ratio	Lower	Upper
79	100		
108	76.4	60.8	91.2
77	63.7	51.9	77.9

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

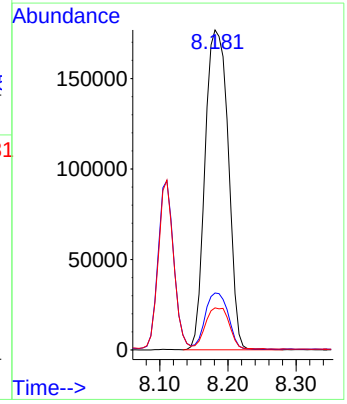


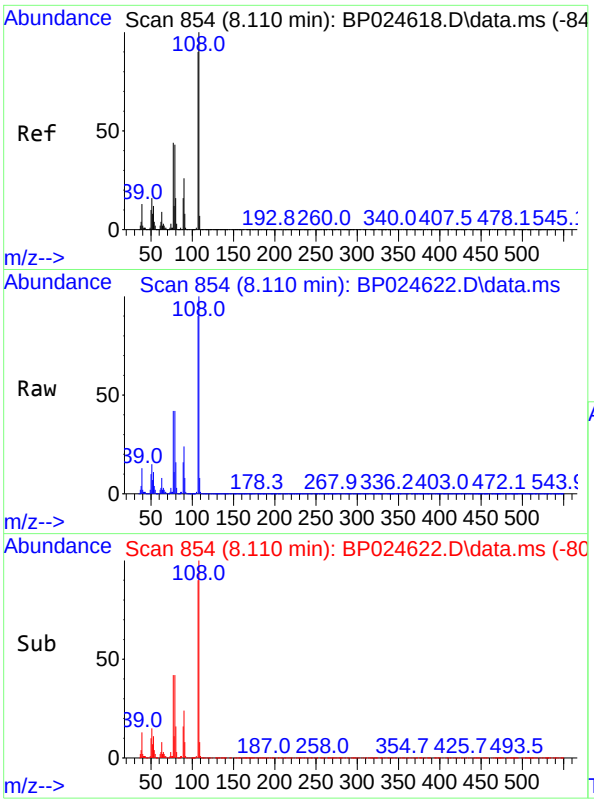


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.04 ng
RT: 8.181 min Scan# 866
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 45 Resp: 416339

Ion	Ratio	Lower	Upper
45	100		
77	17.8	0.0	37.7
79	13.2	0.0	34.0

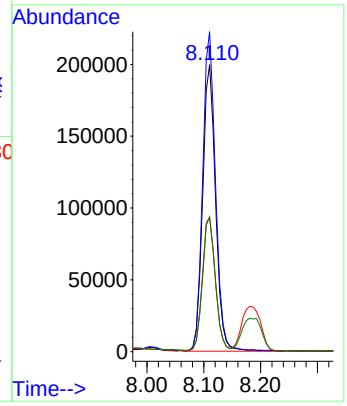




#17
2-Methylphenol
Concen: 39.62 ng
RT: 8.110 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:107 Resp: 31606

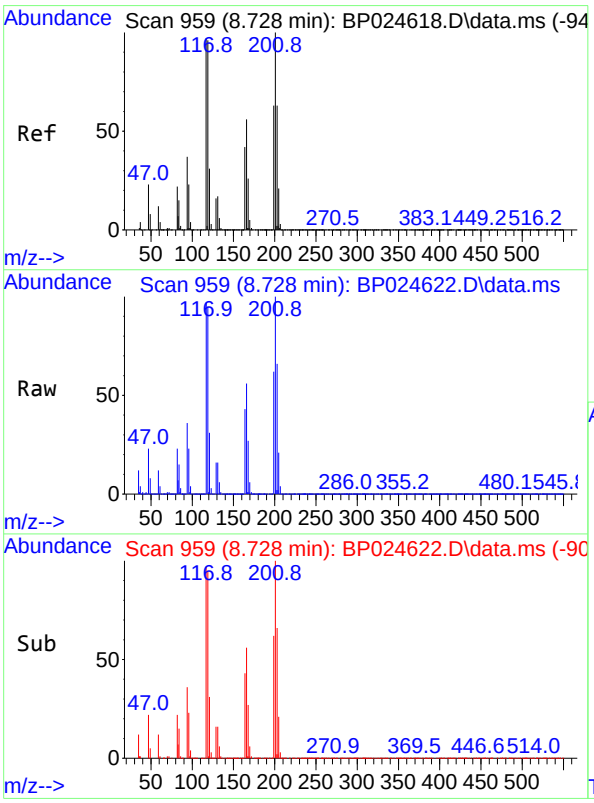
Ion	Ratio	Lower	Upper
107	100		
108	111.5	88.9	133.3
77	46.8	39.0	58.6
79	47.0	38.4	57.6



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

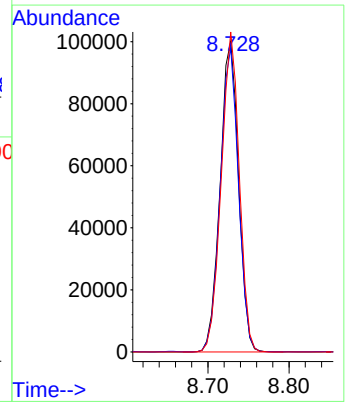
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

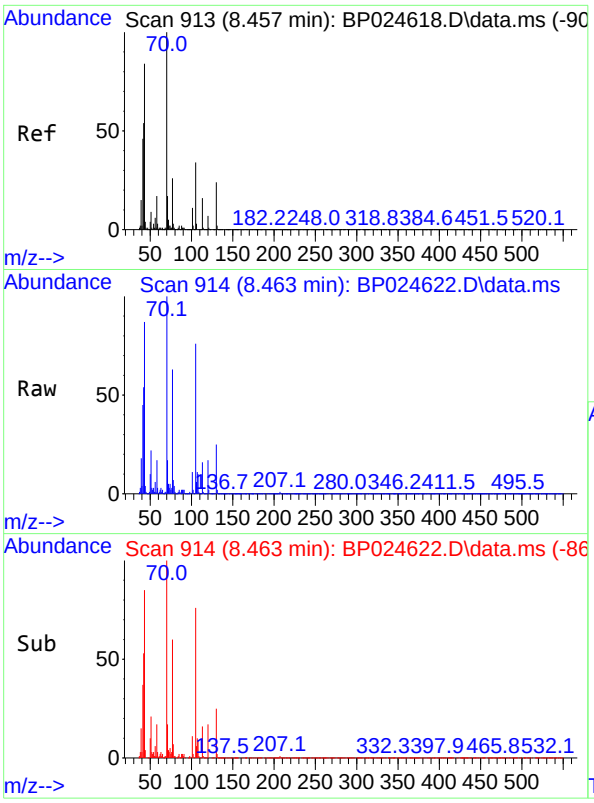


#18
Hexachloroethane
Concen: 37.21 ng
RT: 8.728 min Scan# 959
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:117 Resp: 158167

Ion	Ratio	Lower	Upper
117	100		
119	97.9	79.4	119.0
201	103.0	82.7	124.1

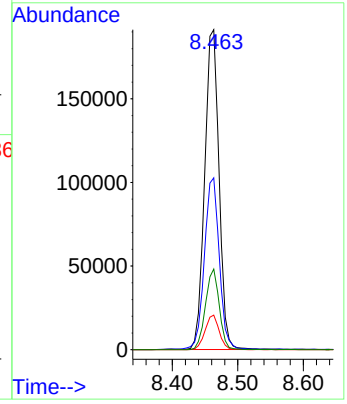




#19
n-Nitroso-di-n-propylamine
Concen: 39.16 ng
RT: 8.463 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 70 Resp: 29196

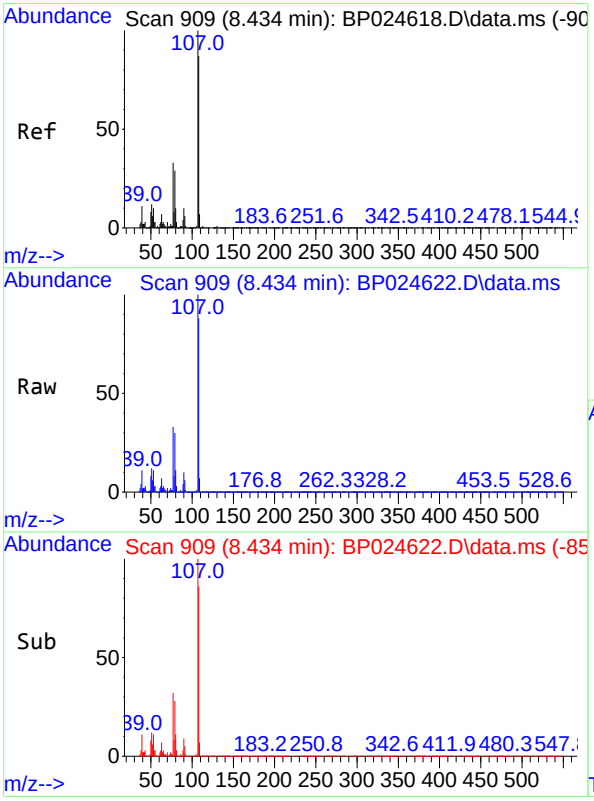
Ion	Ratio	Lower	Upper
70	100		
42	53.7	43.0	64.6
101	10.8	8.7	13.1
130	25.2	19.4	29.0



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

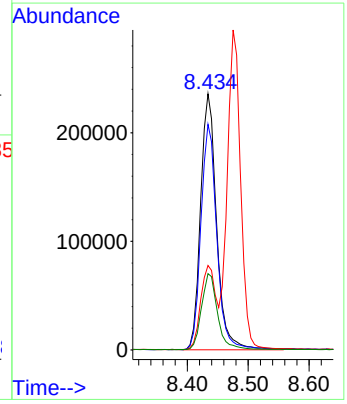
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

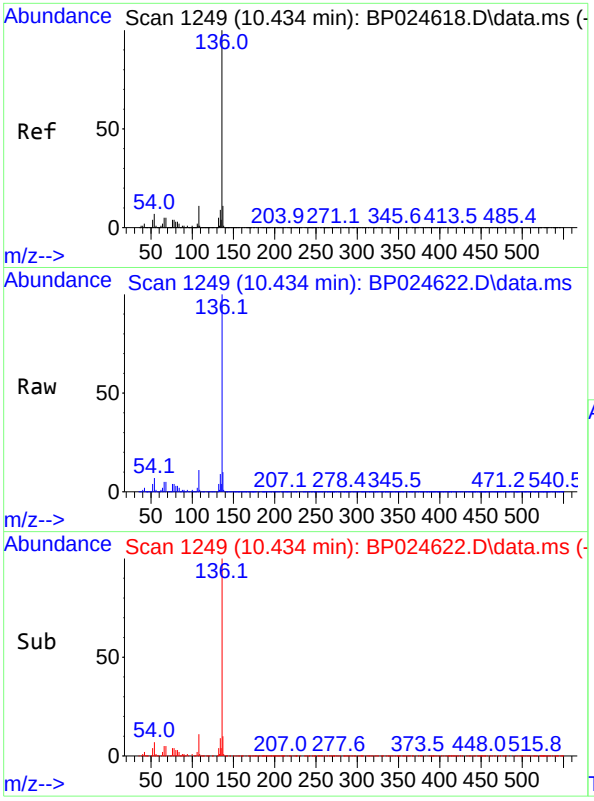


#20
3+4-Methylphenols
Concen: 39.56 ng
RT: 8.434 min Scan# 909
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:107 Resp: 429326

Ion	Ratio	Lower	Upper
107	100		
108	88.1	66.7	106.7
77	33.0	13.1	53.1
79	29.8	8.9	48.9

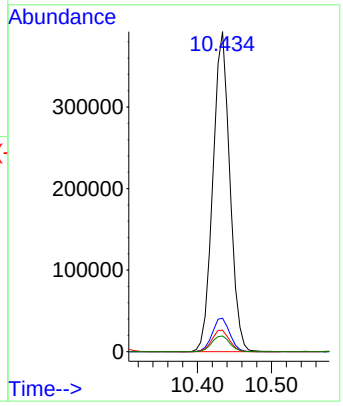




#21
Naphthalene-d8
Concen: 20.00 ng
RT: 10.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:136 Resp: 62177

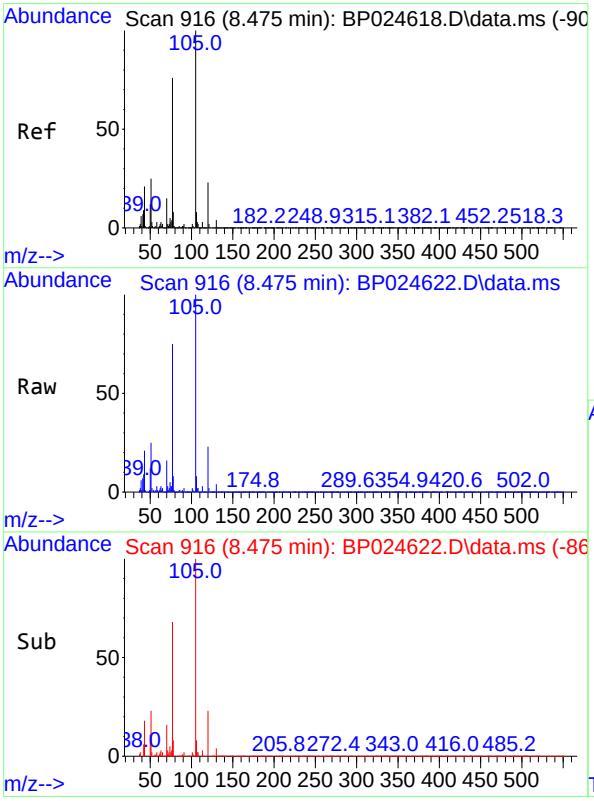
Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.8	13.2
54	6.7	5.5	8.3
68	4.9	4.2	6.2



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

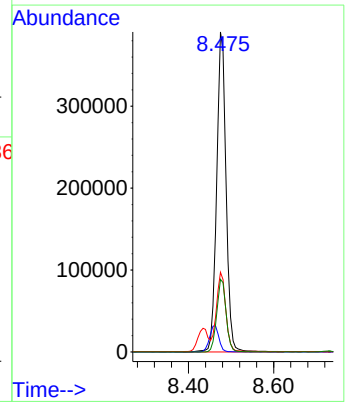
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

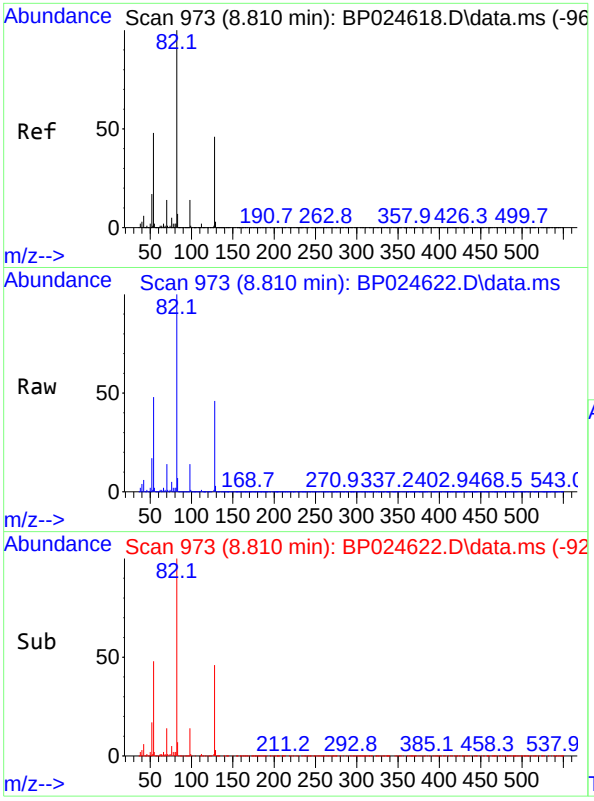


#22
Acetophenone
Concen: 38.47 ng
RT: 8.475 min Scan# 916
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:105 Resp: 597464

Ion	Ratio	Lower	Upper
105	100		
71	2.6	2.0	3.0
51	24.9	20.4	30.6
120	22.7	18.1	27.1

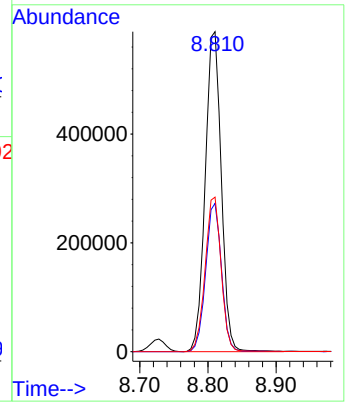




#23
Nitrobenzene-d5
Concen: 78.23 ng
RT: 8.810 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 82 Resp: 96266

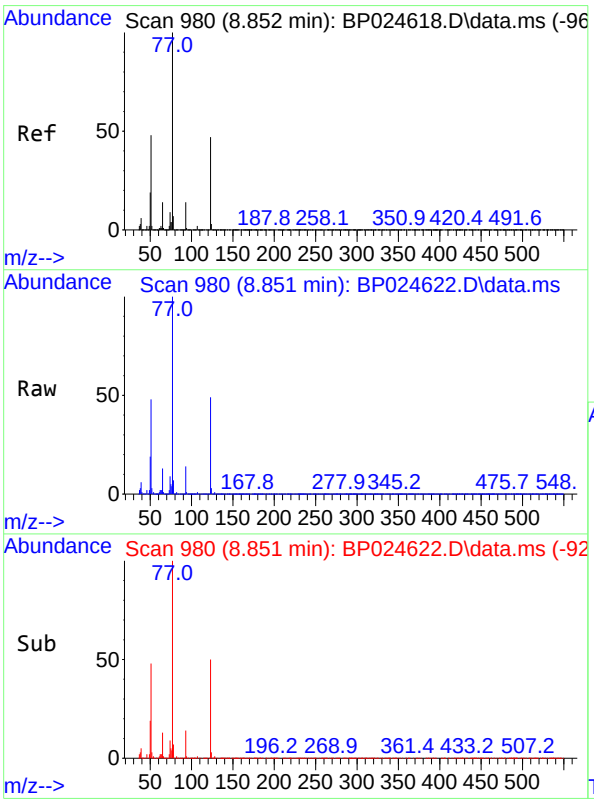
Ion	Ratio	Lower	Upper
82	100		
128	46.4	37.0	55.4
54	48.3	38.7	58.1



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

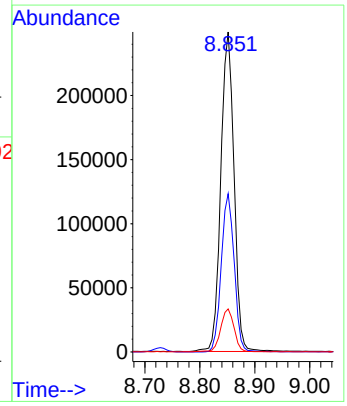
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

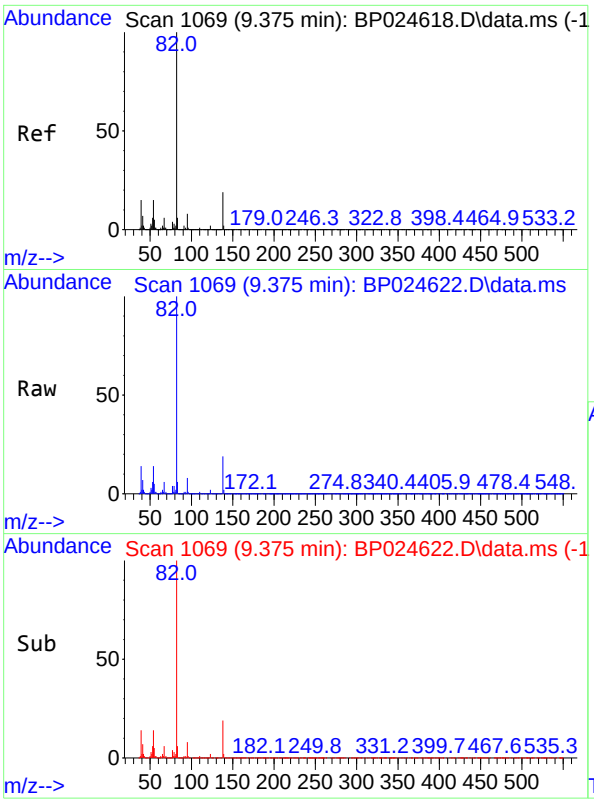


#24
Nitrobenzene
Concen: 38.50 ng
RT: 8.851 min Scan# 980
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 77 Resp: 416985

Ion	Ratio	Lower	Upper
77	100		
123	49.5	37.4	56.0
65	13.5	11.3	16.9

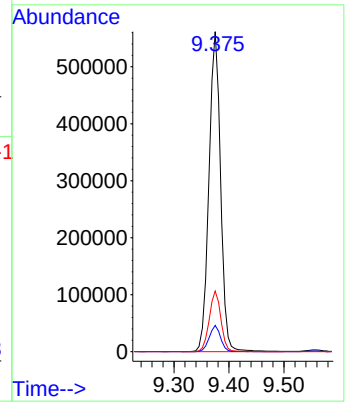




#25
Isophorone
Concen: 38.49 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 82 Resp: 82163

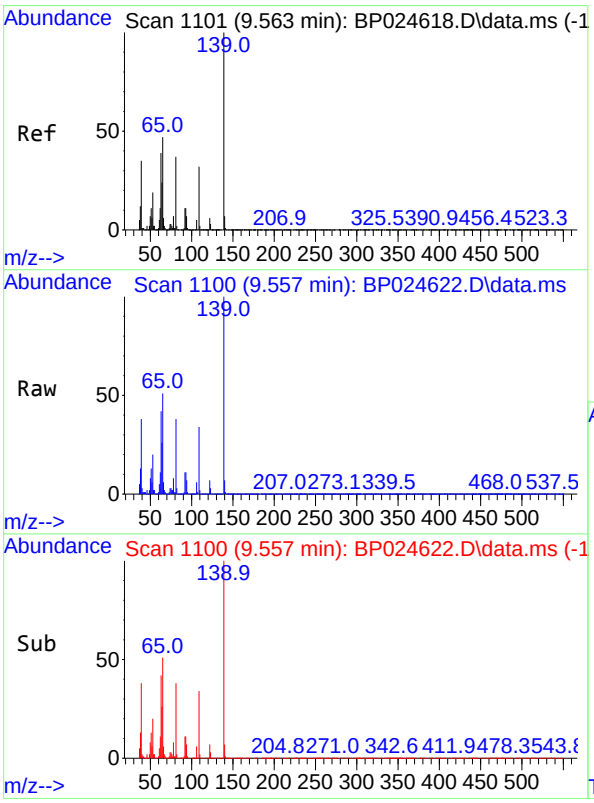
Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.3	9.5
138	18.9	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

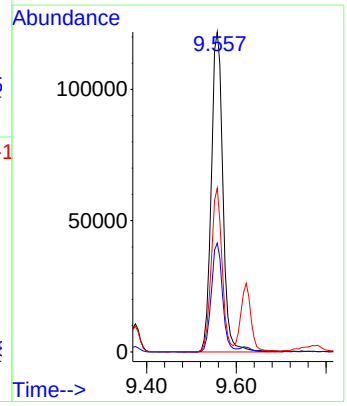
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

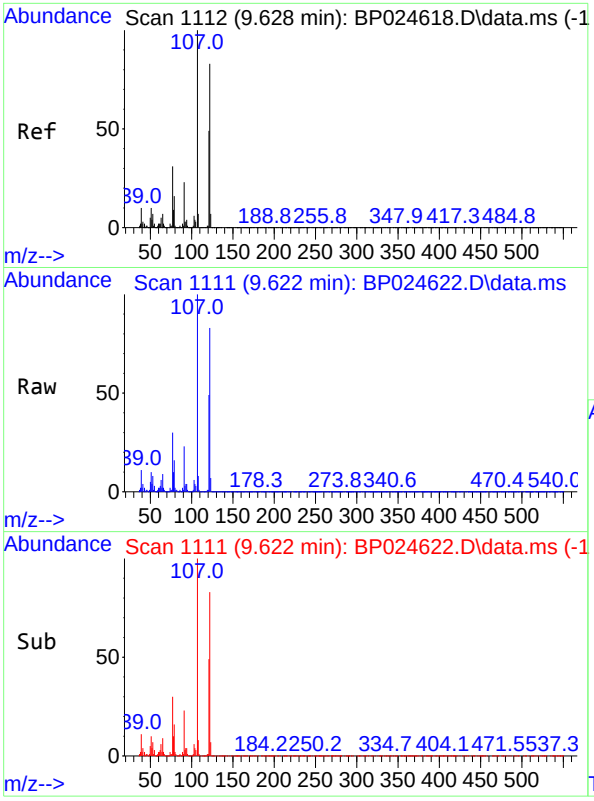


#26
2-Nitrophenol
Concen: 41.12 ng
RT: 9.557 min Scan# 1100
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:139 Resp: 218211

Ion	Ratio	Lower	Upper
139	100		
109	34.0	25.9	38.9
65	51.3	37.9	56.9

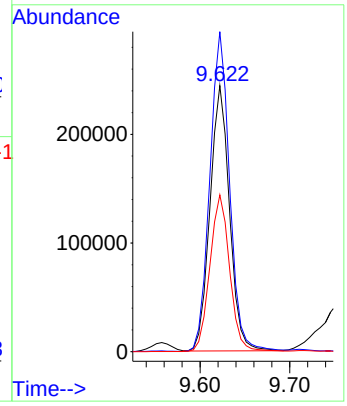




#27
2,4-Dimethylphenol
Concen: 39.48 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:122 Resp: 369418

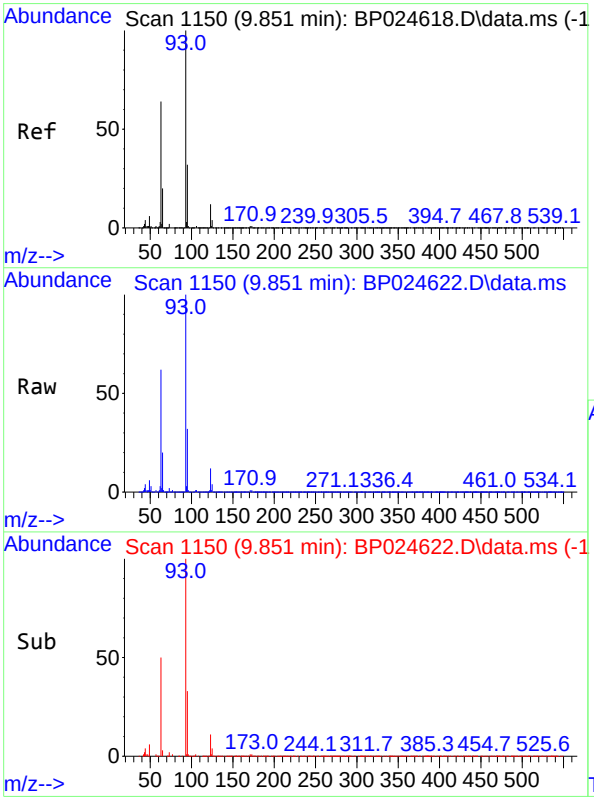
Ion	Ratio	Lower	Upper
122	100		
107	120.3	96.2	144.2
121	58.9	47.6	71.4



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

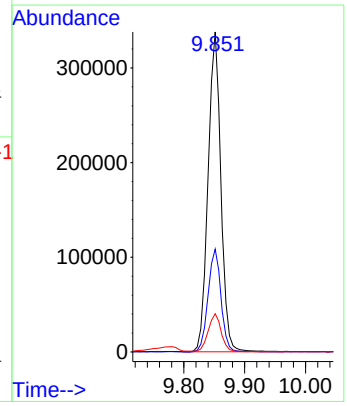
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

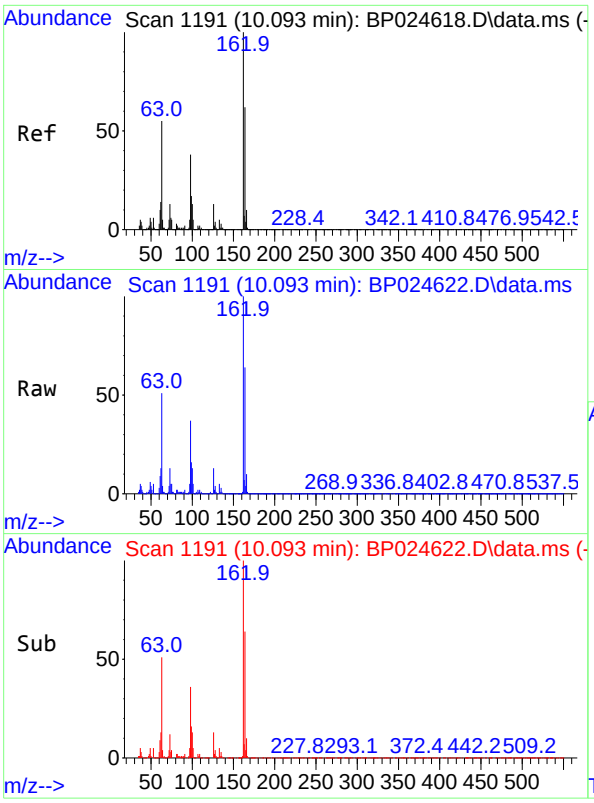


#28
bis(2-Chloroethoxy)methane
Concen: 38.71 ng
RT: 9.851 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 93 Resp: 493722

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.5	38.3
123	12.0	9.7	14.5

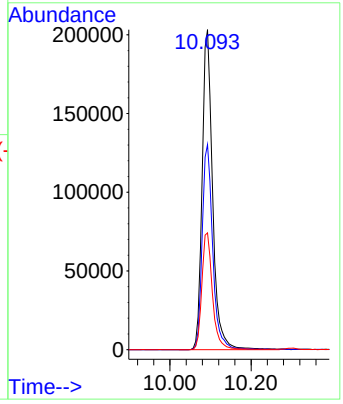




#29
2,4-Dichlorophenol
Concen: 40.19 ng
RT: 10.093 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:162 Resp: 36437

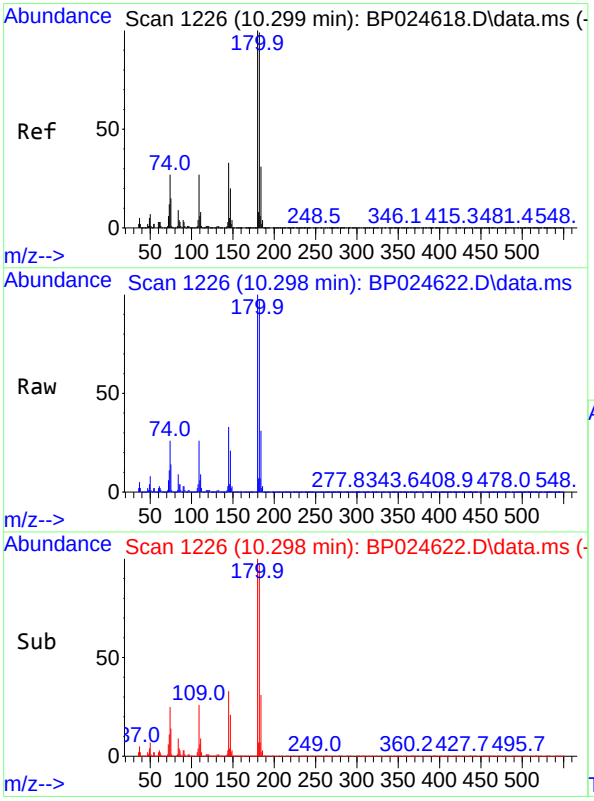
Ion	Ratio	Lower	Upper
162	100		
164	64.1	42.3	82.3
98	36.5	18.4	58.4



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

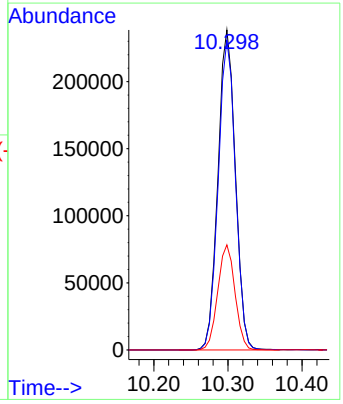
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

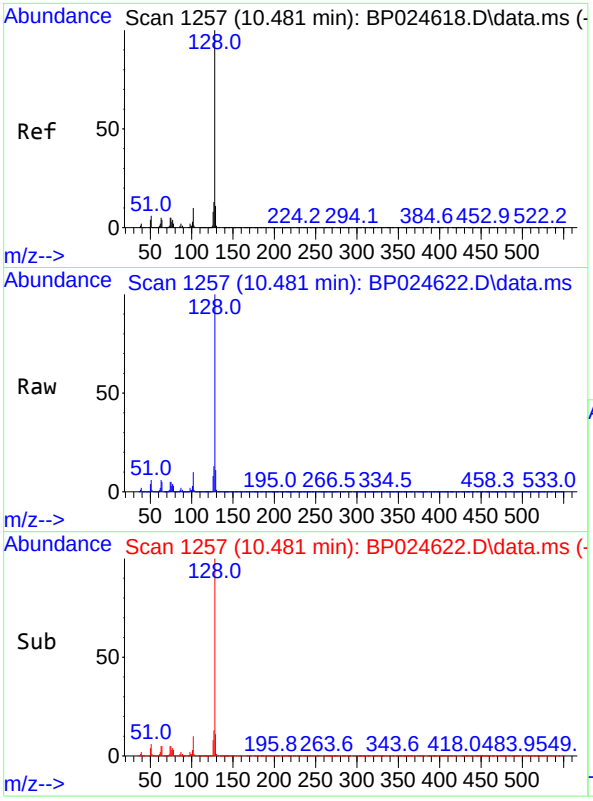


#30
1,2,4-Trichlorobenzene
Concen: 38.11 ng
RT: 10.298 min Scan# 1226
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:180 Resp: 389362

Ion	Ratio	Lower	Upper
180	100		
182	96.8	79.0	118.4
145	32.9	26.6	39.8

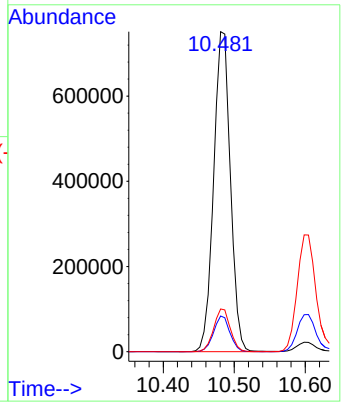




#31
Naphthalene
Concen: 38.07 ng
RT: 10.481 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:128 Resp: 122662

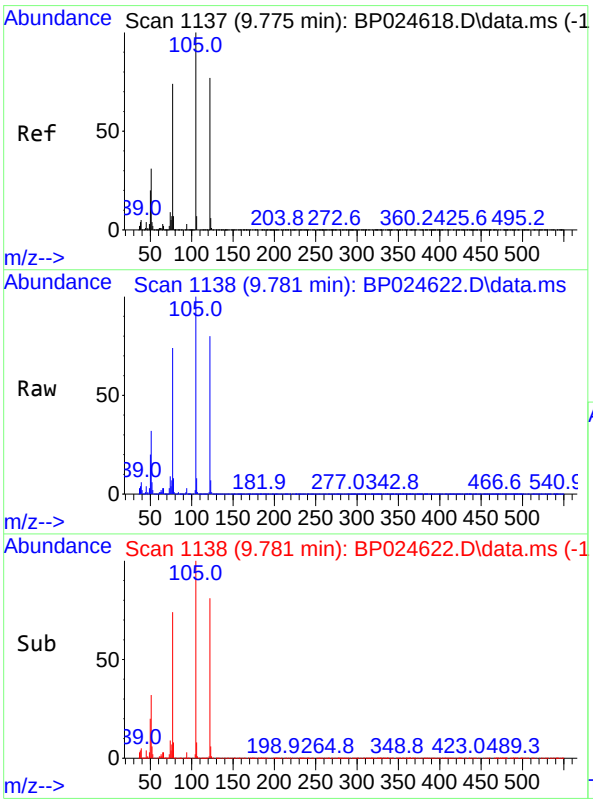
Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.4	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

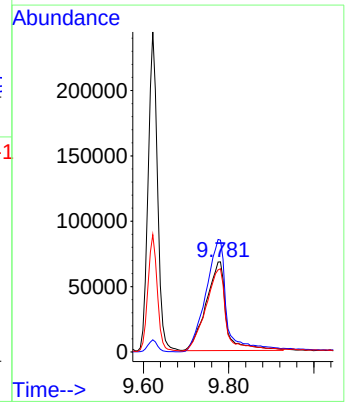
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

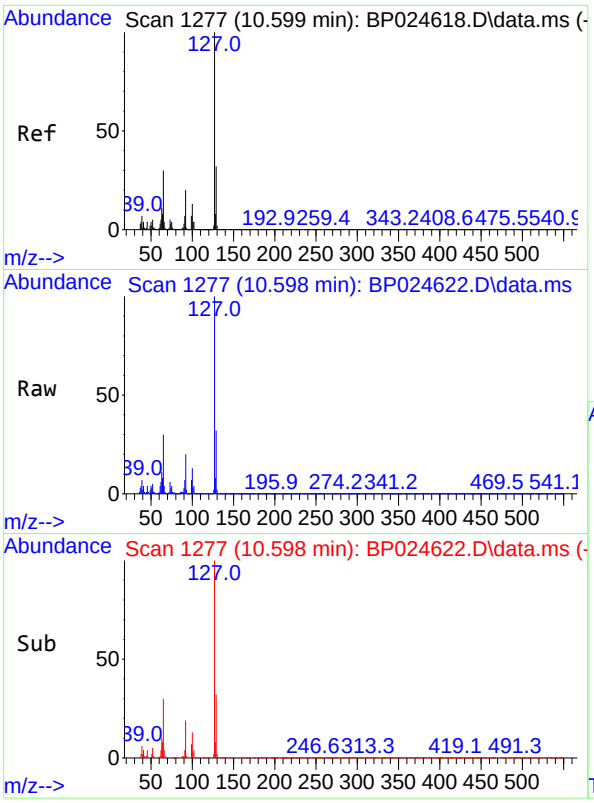


#32
Benzoic acid
Concen: 36.46 ng
RT: 9.781 min Scan# 1138
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:122 Resp: 223660

Ion	Ratio	Lower	Upper
122	100		
105	124.2	106.9	146.9
77	92.5	75.1	115.1

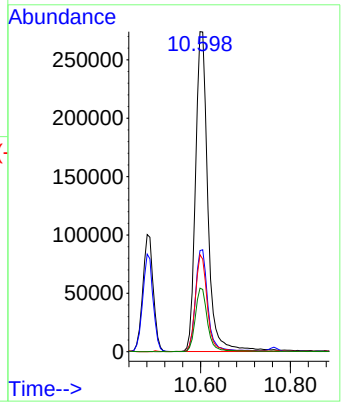




#33
4-Chloroaniline
Concen: 40.37 ng
RT: 10.598 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:127 Resp: 52487

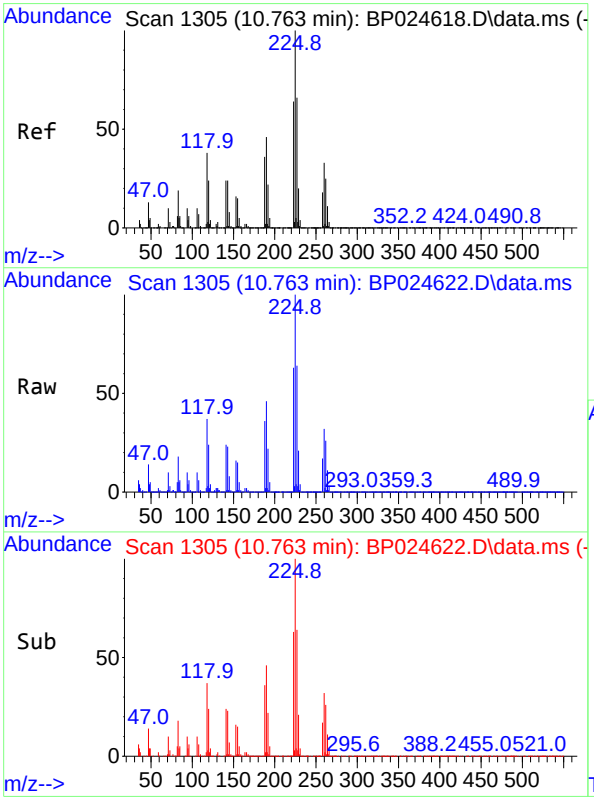
Ion	Ratio	Lower	Upper
127	100		
129	31.6	25.8	38.6
65	30.3	23.9	35.9
92	19.9	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

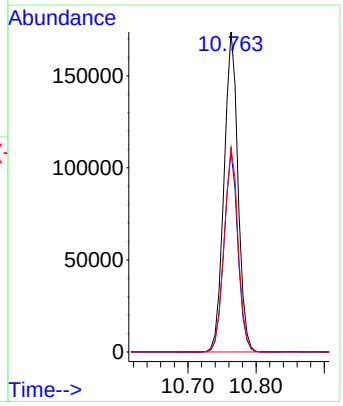
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

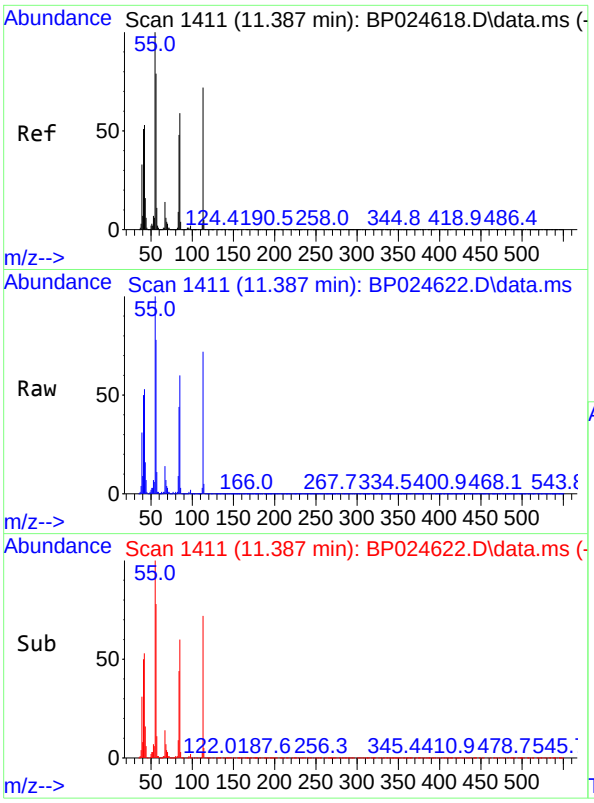


#34
Hexachlorobutadiene
Concen: 37.29 ng
RT: 10.763 min Scan# 1305
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:225 Resp: 246776

Ion	Ratio	Lower	Upper
225	100		
223	62.5	51.0	76.6
227	64.0	53.1	79.7

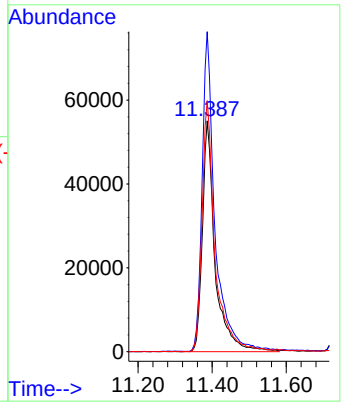




#35
Caprolactam
Concen: 39.75 ng
RT: 11.387 min Scan# 14
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:113 Resp: 13039

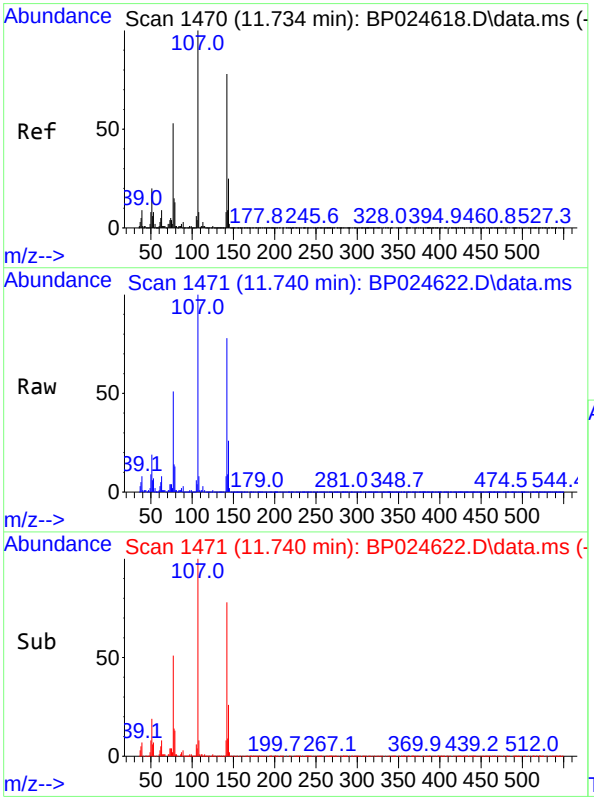
Ion	Ratio	Lower	Upper
113	100		
55	138.6	119.0	159.0
56	108.8	90.3	130.3



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

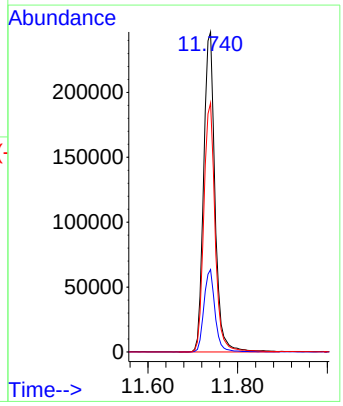
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

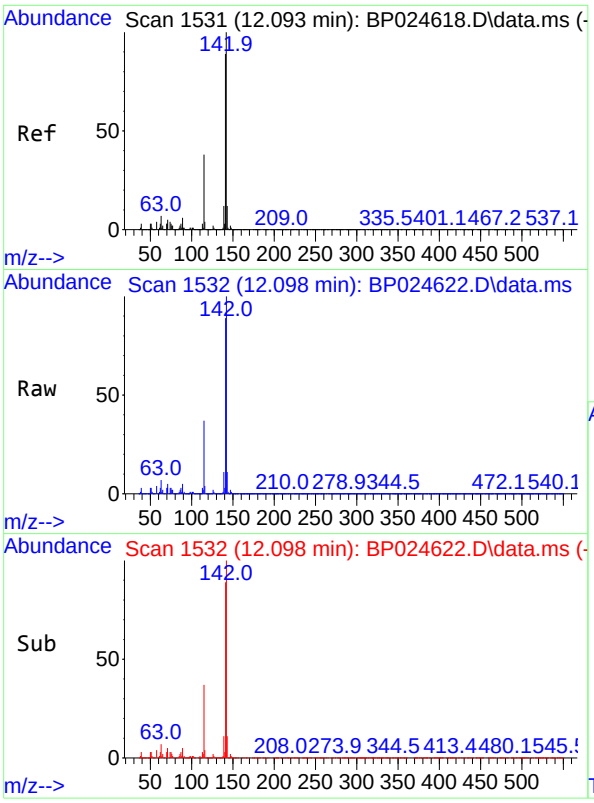


#36
4-Chloro-3-methylphenol
Concen: 39.01 ng
RT: 11.740 min Scan# 1471
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:107 Resp: 431344

Ion	Ratio	Lower	Upper
107	100		
144	25.7	20.1	30.1
142	77.8	62.1	93.1

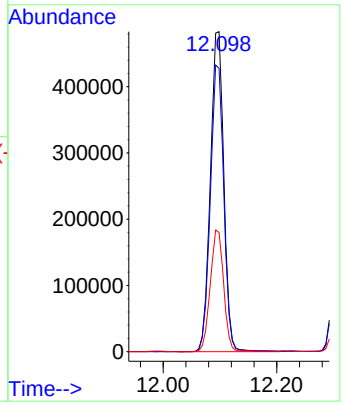




#37
2-Methylnaphthalene
Concen: 37.85 ng
RT: 12.098 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:142 Resp: 78972

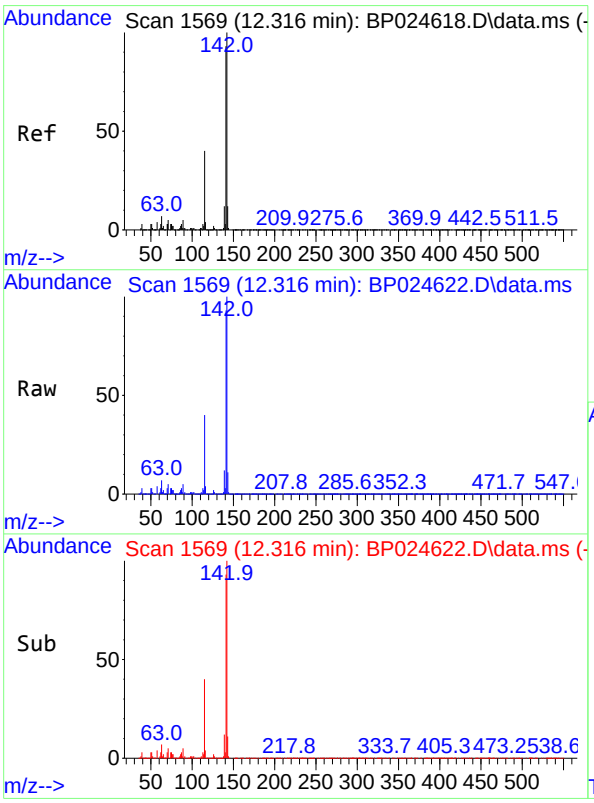
Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.2	106.8
115	37.2	30.6	46.0



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations
APPROVED

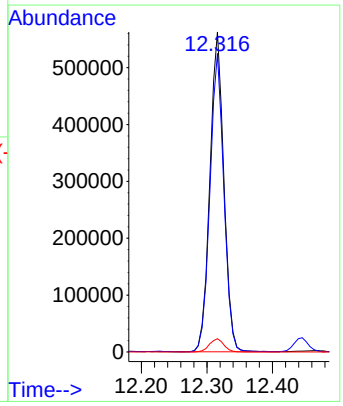
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

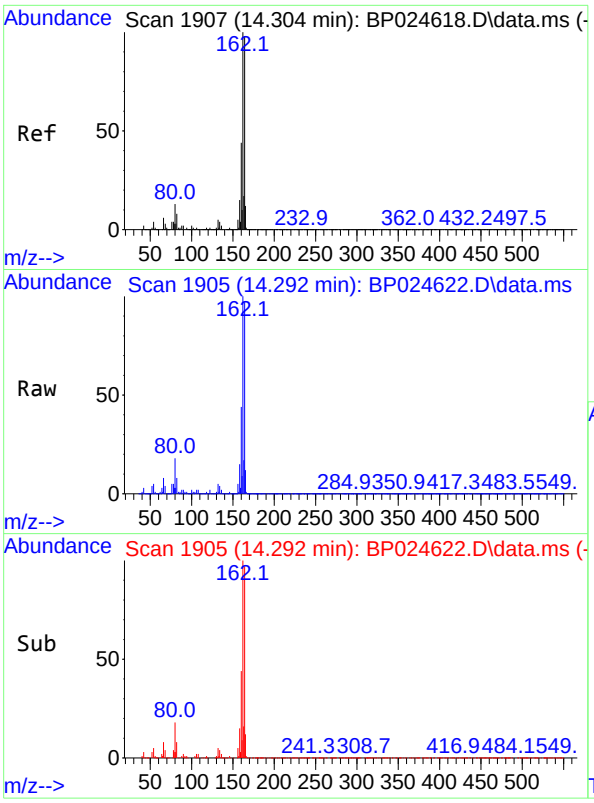


#38
1-Methylnaphthalene
Concen: 37.34 ng
RT: 12.316 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:142 Resp: 833521

Ion	Ratio	Lower	Upper
142	100		
141	93.2	74.7	112.1
116	4.2	3.4	5.2

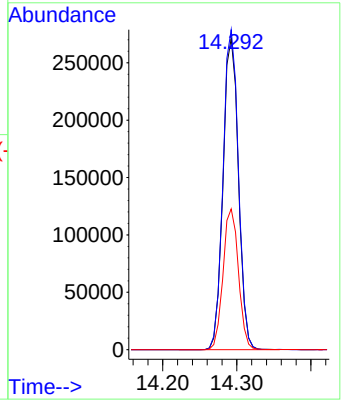




#39
Acenaphthene-d10
Concen: 20.00 ng
RT: 14.292 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:164 Resp: 39111

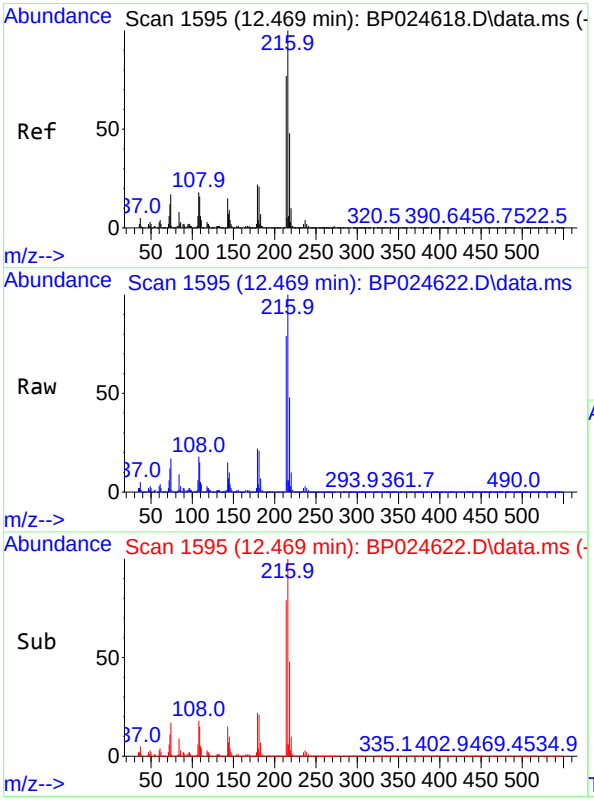
Ion	Ratio	Lower	Upper
164	100		
162	102.8	81.8	122.6
160	45.2	36.3	54.5



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

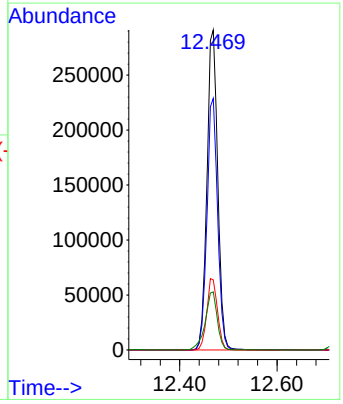
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

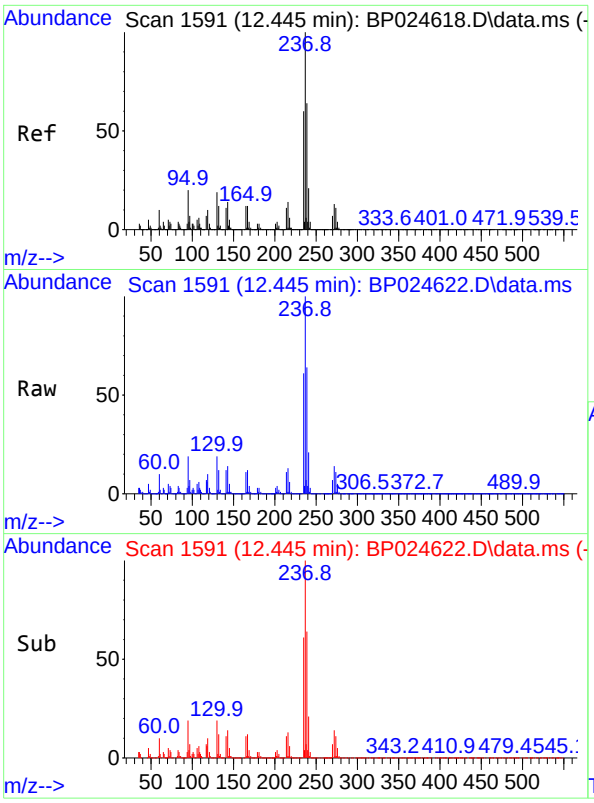


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.13 ng
RT: 12.469 min Scan# 1595
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:216 Resp: 444420

Ion	Ratio	Lower	Upper
216	100		
214	78.0	62.3	93.5
179	22.2	17.7	26.5
108	20.3	16.0	24.0

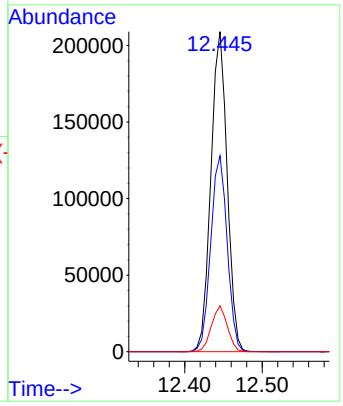




#41
Hexachlorocyclopentadiene
Concen: 44.37 ng
RT: 12.445 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:237 Resp: 30557

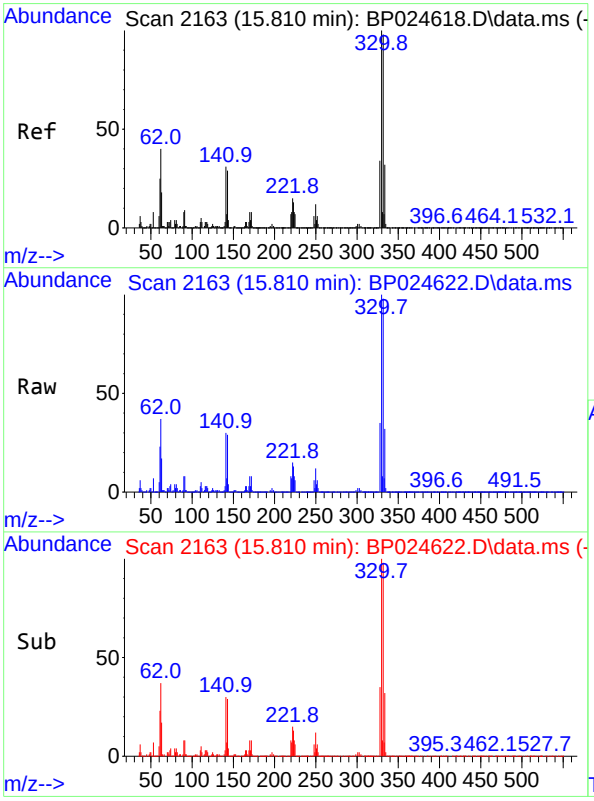
Ion	Ratio	Lower	Upper
237	100		
235	61.2	39.9	79.9
272	14.3	0.0	33.2



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

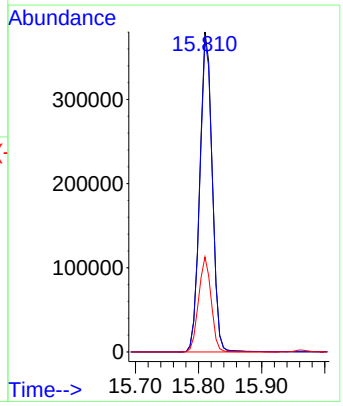
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

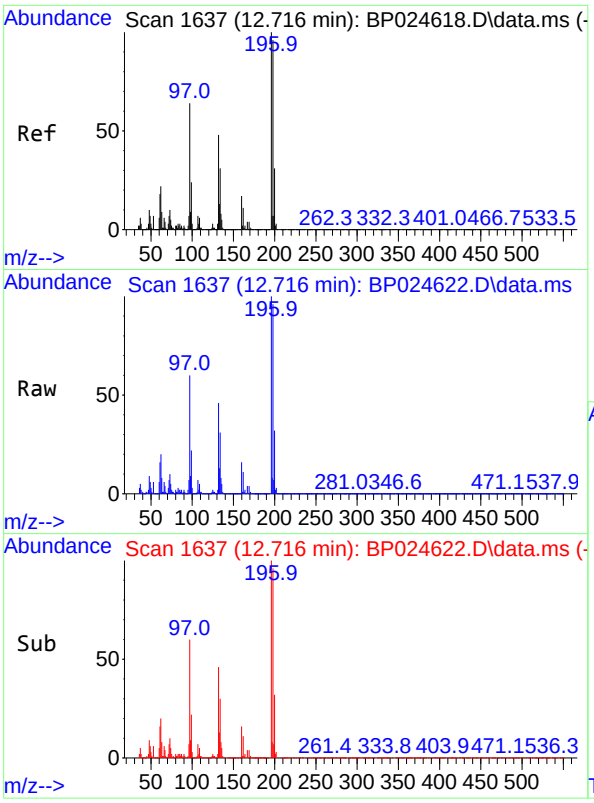


#42
2,4,6-Tribromophenol
Concen: 78.53 ng
RT: 15.810 min Scan# 2163
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:330 Resp: 520660

Ion	Ratio	Lower	Upper
330	100		
332	98.2	78.2	117.4
141	29.8	24.3	36.5

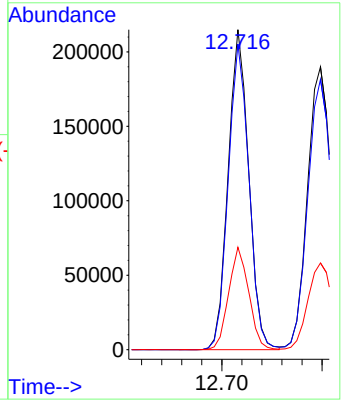




#43
2,4,6-Trichlorophenol
Concen: 41.55 ng
RT: 12.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:196 Resp: 30565

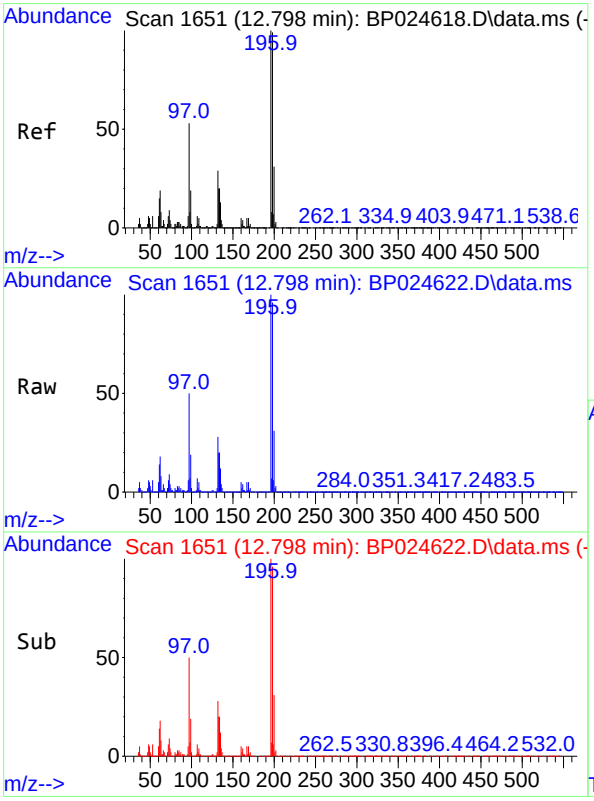
Ion	Ratio	Lower	Upper
196	100		
198	95.5	76.9	115.3
200	32.0	25.2	37.8



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

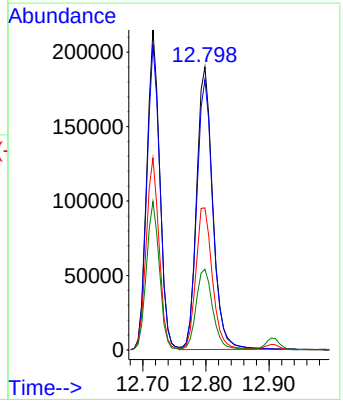
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

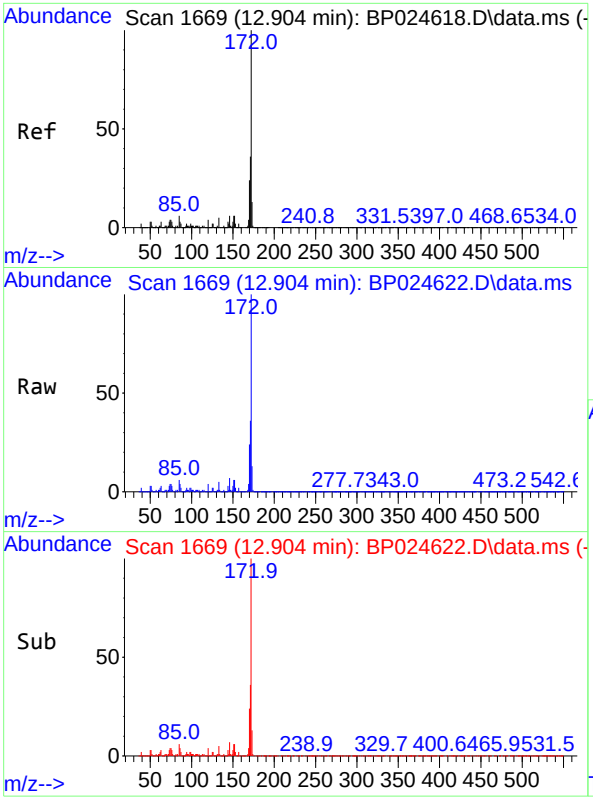


#44
2,4,5-Trichlorophenol
Concen: 41.06 ng
RT: 12.798 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:196 Resp: 336252

Ion	Ratio	Lower	Upper
196	100		
198	95.6	79.2	118.8
97	50.2	42.3	63.5
132	28.5	23.3	34.9

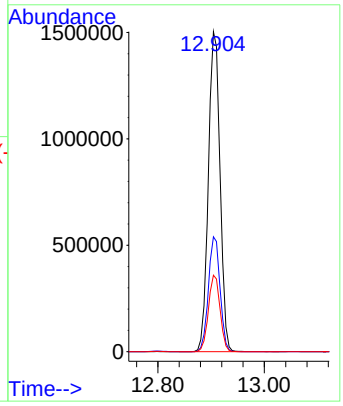




#45
2-Fluorobiphenyl
Concen: 76.73 ng
RT: 12.904 min Scan# 1(
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:172 Resp: 229071

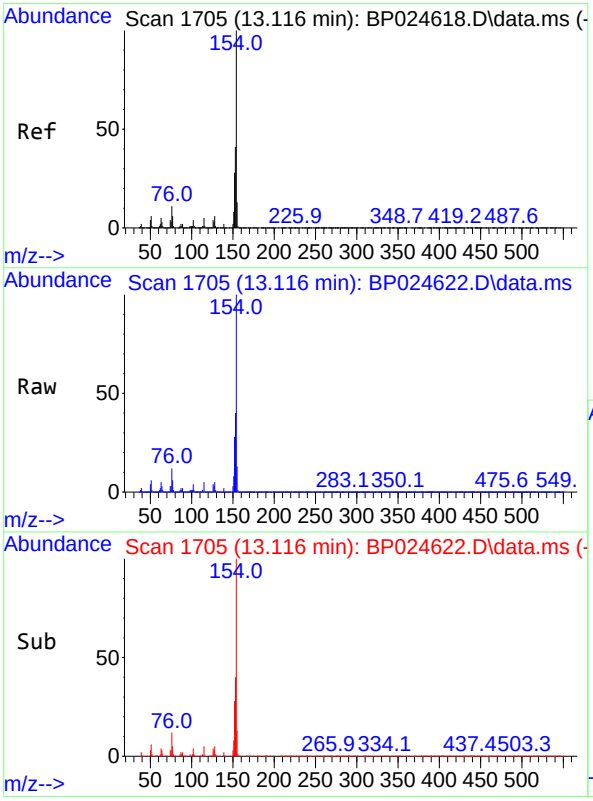
Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.8	43.2
170	23.9	18.8	28.2



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

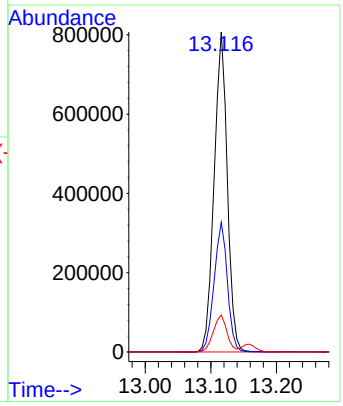
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

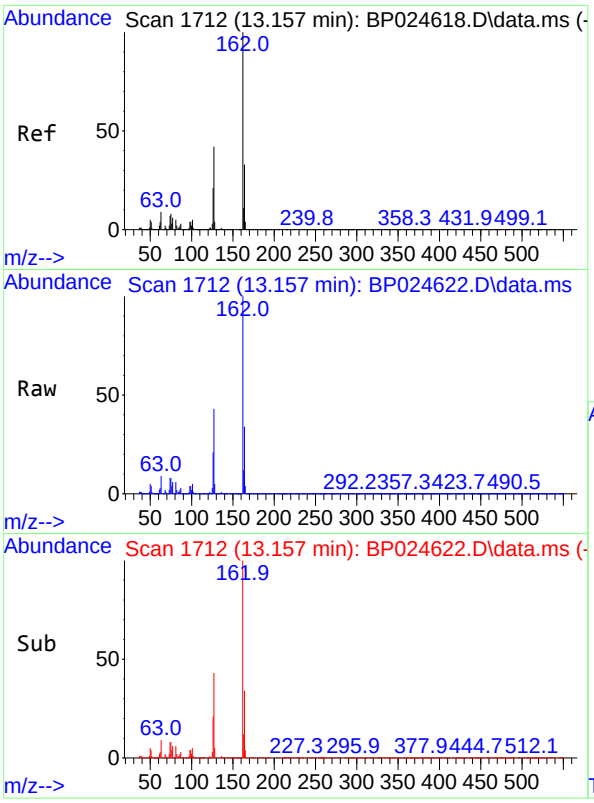


#46
1,1'-Biphenyl
Concen: 38.91 ng
RT: 13.116 min Scan# 1705
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:154 Resp: 1124669

Ion	Ratio	Lower	Upper
154	100		
153	40.5	21.0	61.0
76	11.5	0.0	31.5

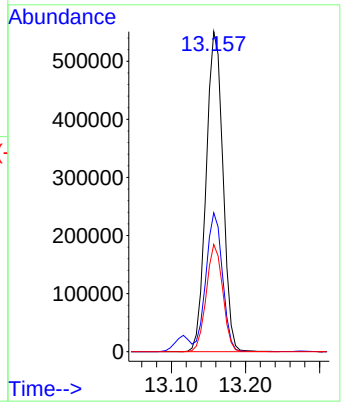




#47
2-Chloronaphthalene
Concen: 39.24 ng
RT: 13.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:162 Resp: 86485

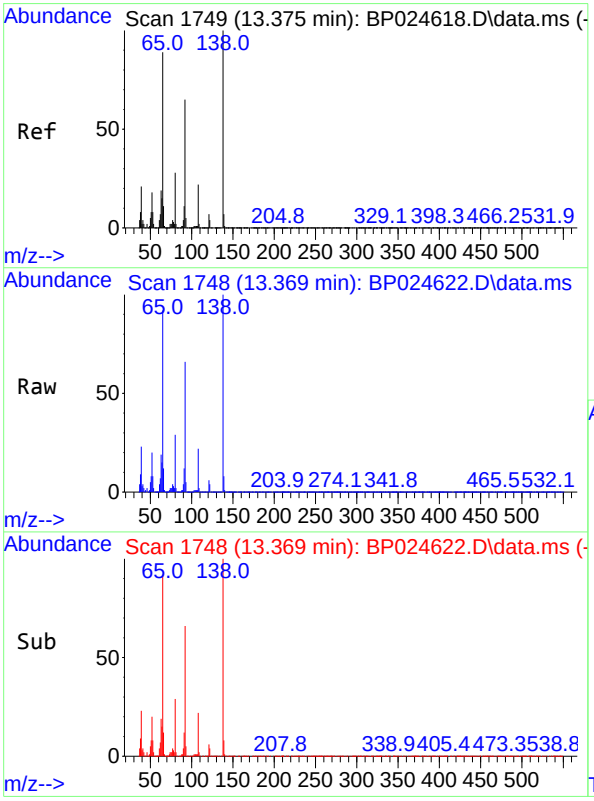
Ion	Ratio	Lower	Upper
162	100		
127	43.4	33.8	50.6
164	33.5	26.0	39.0



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

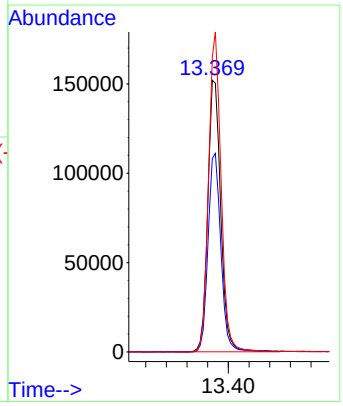
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

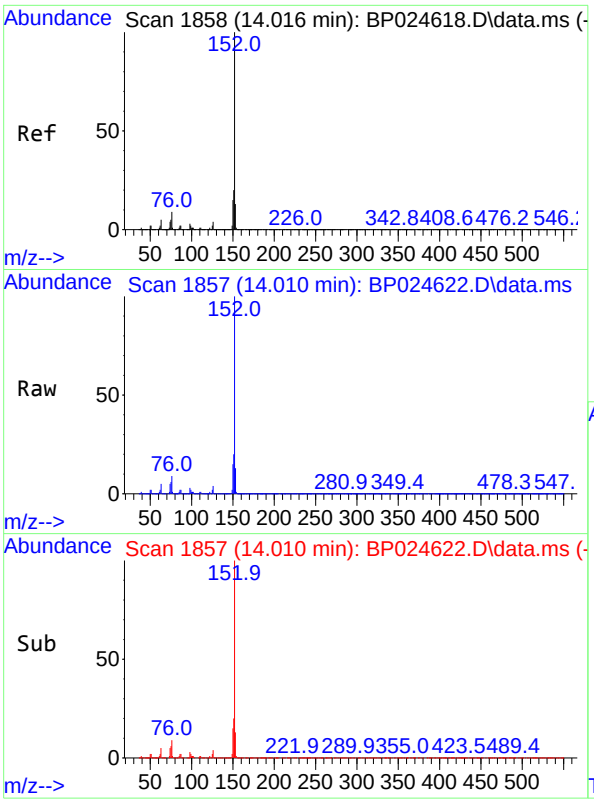


#48
2-Nitroaniline
Concen: 40.60 ng
RT: 13.369 min Scan# 1748
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 65 Resp: 264965

Ion	Ratio	Lower	Upper
65	100		
92	71.2	58.7	88.1
138	108.5	90.2	135.2

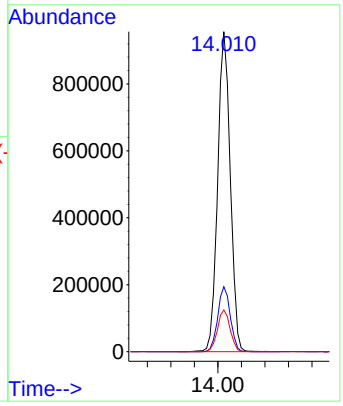




#49
Acenaphthylene
Concen: 38.49 ng
RT: 14.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:152 Resp: 141982

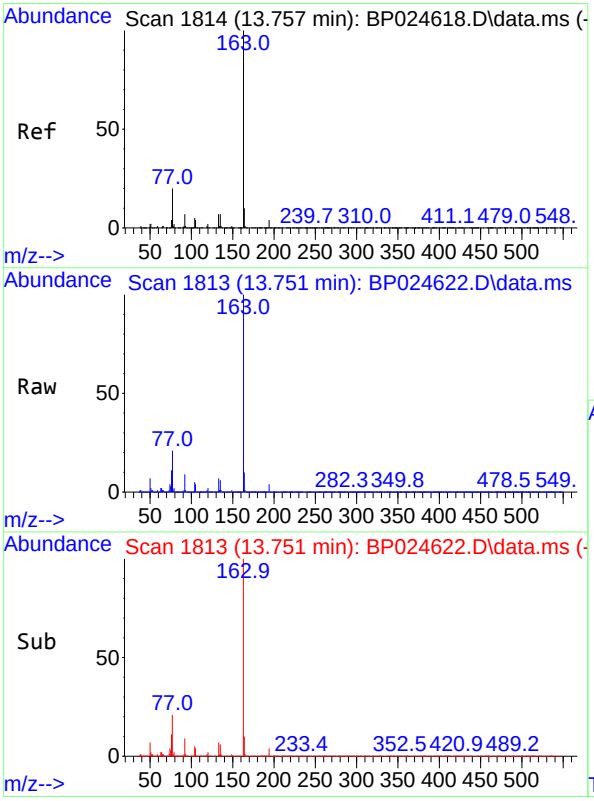
Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.0	10.2	15.4



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

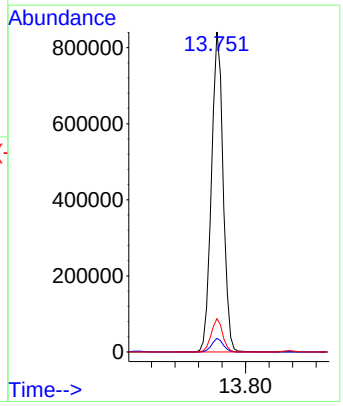
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

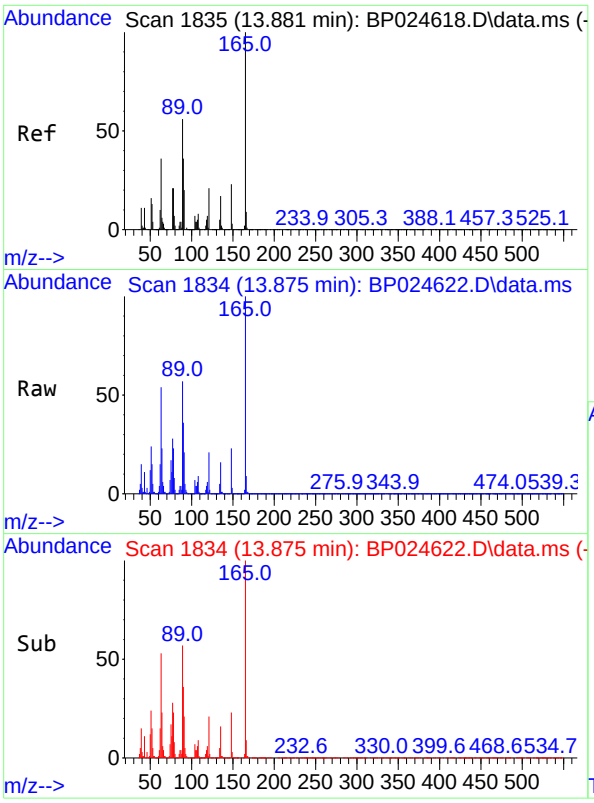


#50
Dimethylphthalate
Concen: 38.75 ng
RT: 13.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:163 Resp: 1155211

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.0
164	10.4	8.1	12.1

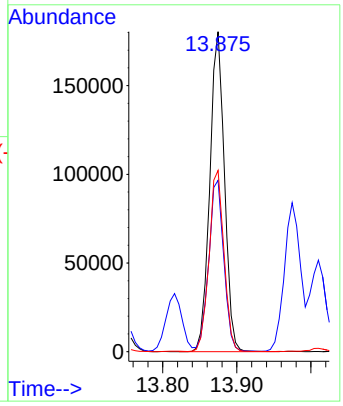




#51
2,6-Dinitrotoluene
Concen: 39.32 ng
RT: 13.875 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:165 Resp: 24753

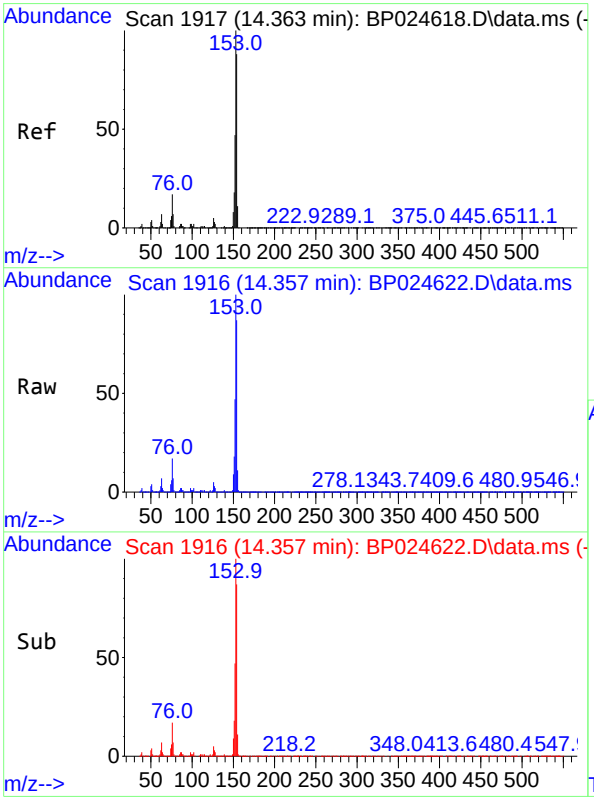
Ion	Ratio	Lower	Upper
165	100		
63	53.5	42.4	63.6
89	56.6	44.8	67.2



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

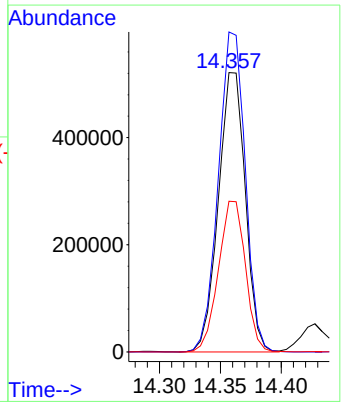
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

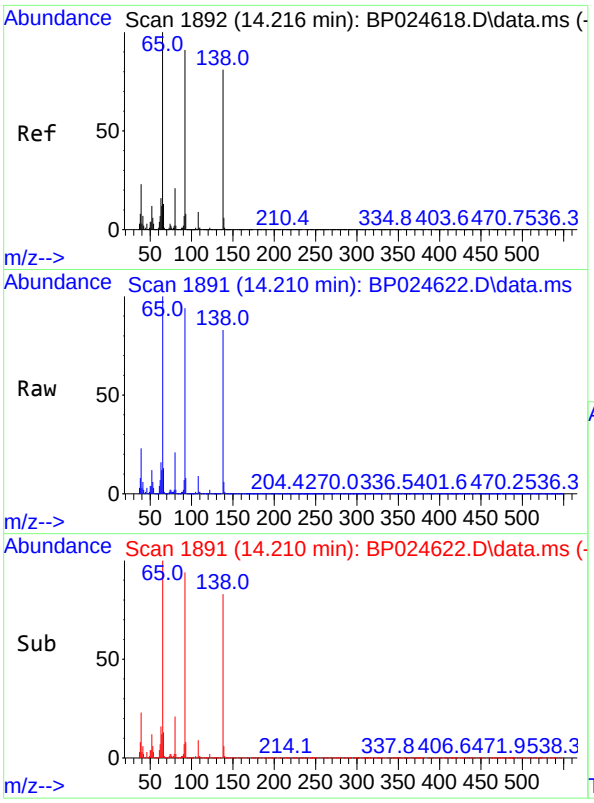


#52
Acenaphthene
Concen: 37.90 ng
RT: 14.357 min Scan# 1916
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:154 Resp: 803755

Ion	Ratio	Lower	Upper
154	100		
153	114.5	91.0	136.4
152	54.0	42.9	64.3

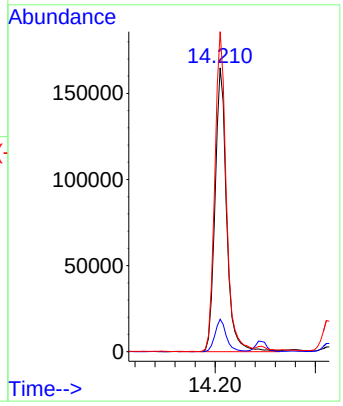




#53
3-Nitroaniline
Concen: 40.87 ng
RT: 14.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:138 Resp: 26273

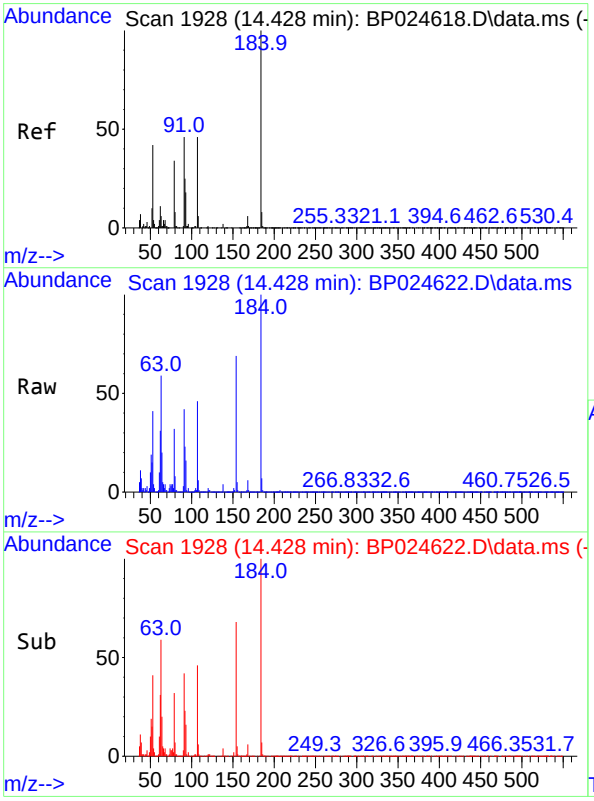
Ion	Ratio	Lower	Upper
138	100		
108	11.4	9.0	13.4
92	112.7	90.1	135.1



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

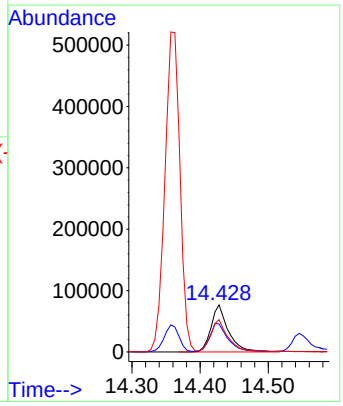
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

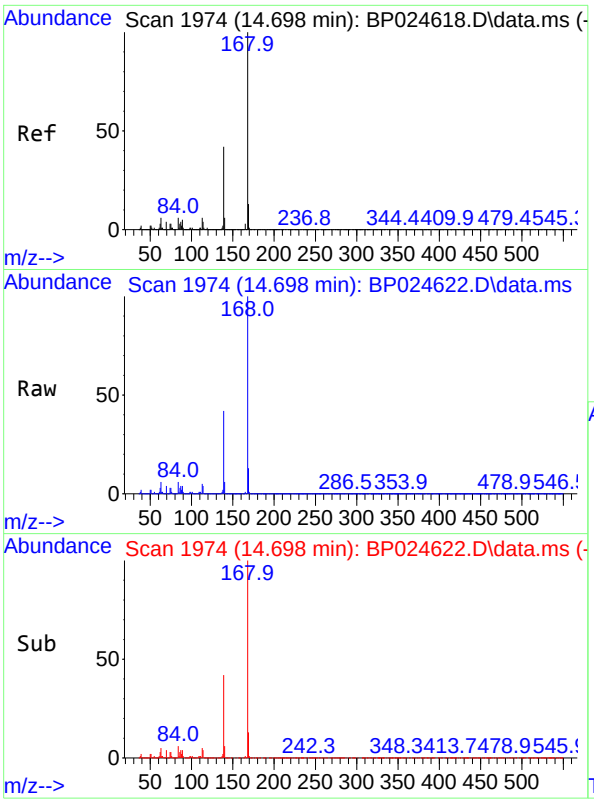


#54
2,4-Dinitrophenol
Concen: 37.83 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:184 Resp: 135624

Ion	Ratio	Lower	Upper
184	100		
63	59.3	51.3	76.9
154	68.5	53.5	80.3

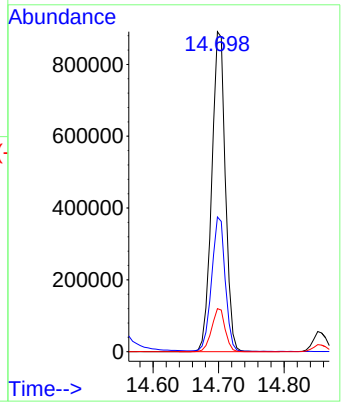




#55
Dibenzofuran
Concen: 37.91 ng
RT: 14.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:168 Resp: 128222

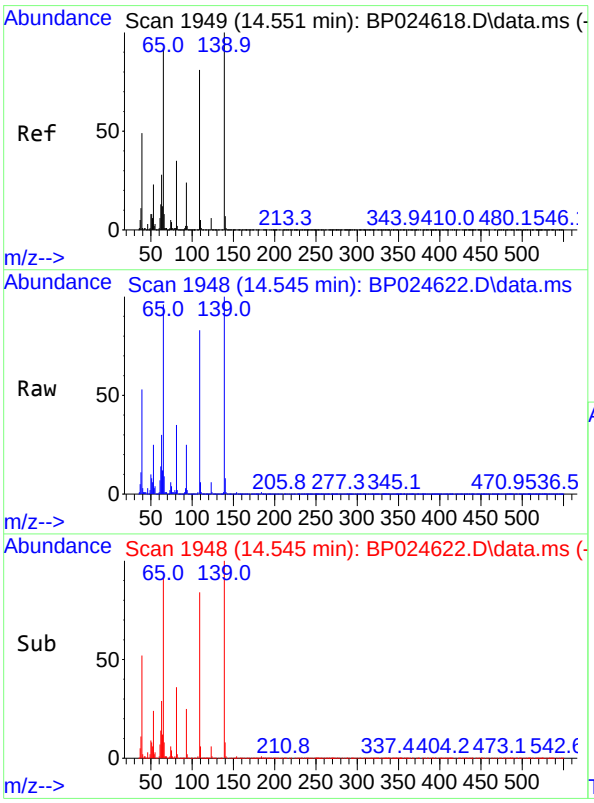
Ion	Ratio	Lower	Upper
168	100		
139	42.1	34.2	51.4
169	13.5	10.8	16.2



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

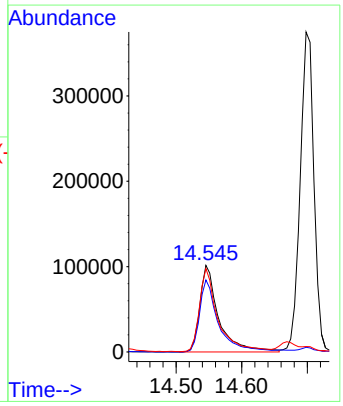
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

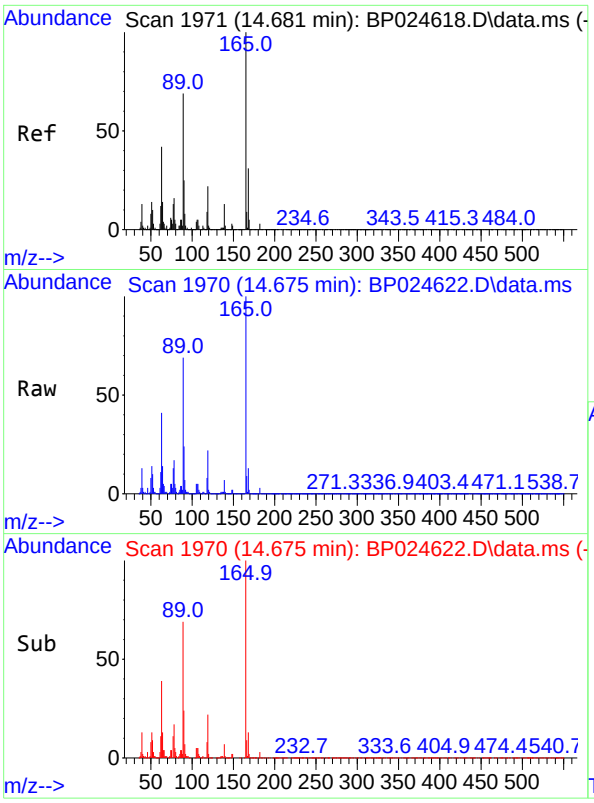


#56
4-Nitrophenol
Concen: 38.70 ng
RT: 14.545 min Scan# 1948
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:139 Resp: 202528

Ion	Ratio	Lower	Upper
139	100		
109	83.2	61.4	101.4
65	96.3	72.2	112.2

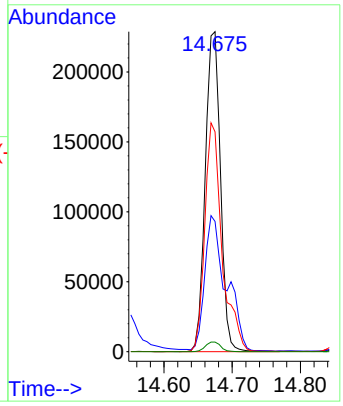




#57
2,4-Dinitrotoluene
Concen: 39.97 ng
RT: 14.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:165 Resp: 35481

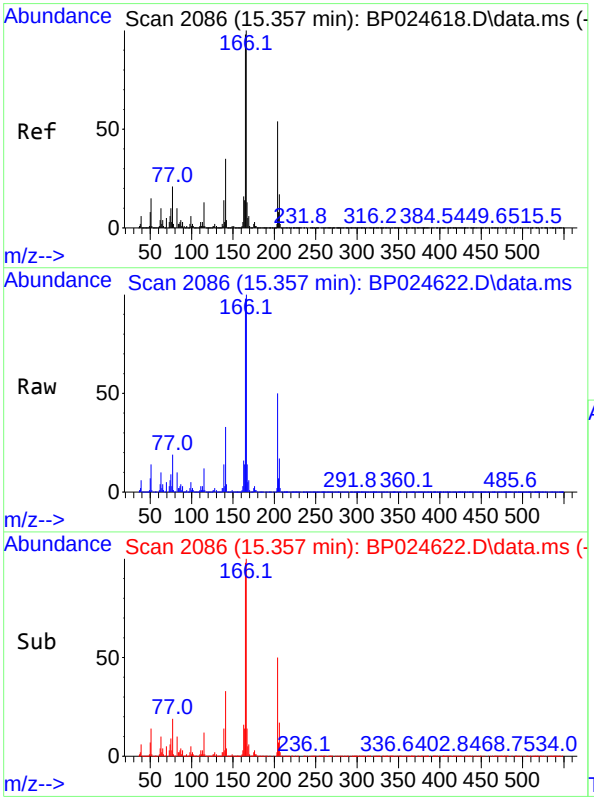
Ion	Ratio	Lower	Upper
165	100		
63	40.7	33.8	50.6
89	68.7	55.6	83.4
182	3.0	2.4	3.6



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

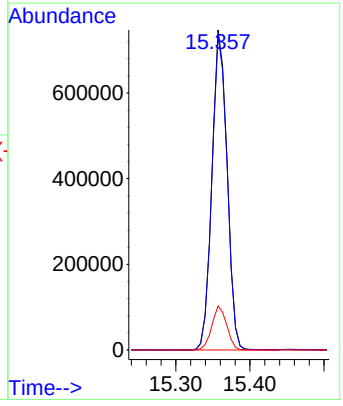
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

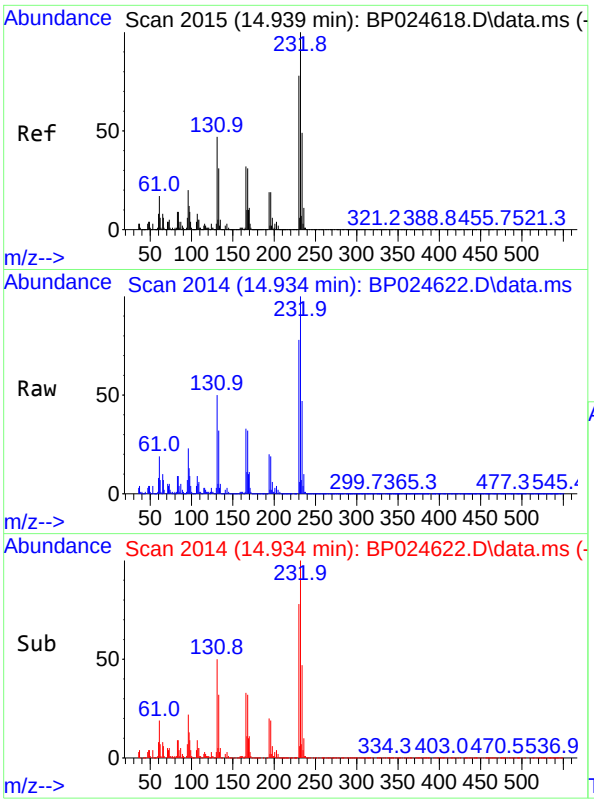


#58
Fluorene
Concen: 38.42 ng
RT: 15.357 min Scan# 2086
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:166 Resp: 1059642

Ion	Ratio	Lower	Upper
166	100		
165	98.2	78.5	117.7
167	13.8	10.7	16.1

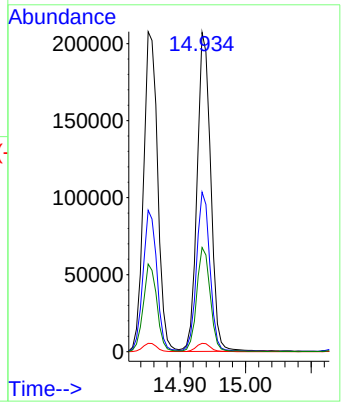




#59
2,3,4,6-Tetrachlorophenol
Concen: 39.27 ng
RT: 14.934 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:232 Resp: 29832

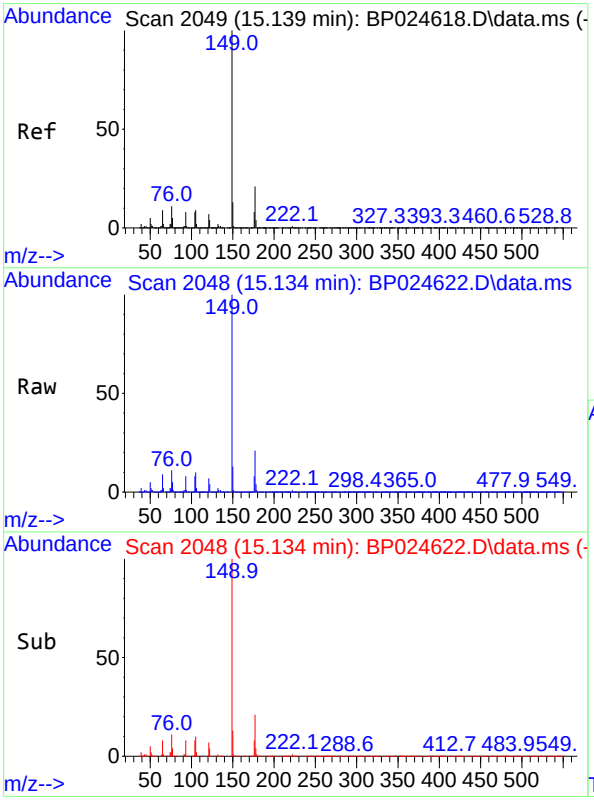
Ion	Ratio	Lower	Upper
232	100		
131	48.9	39.5	59.3
130	2.8	2.2	3.4
166	32.5	25.7	38.5



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

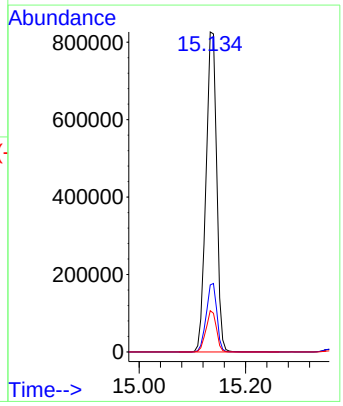
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

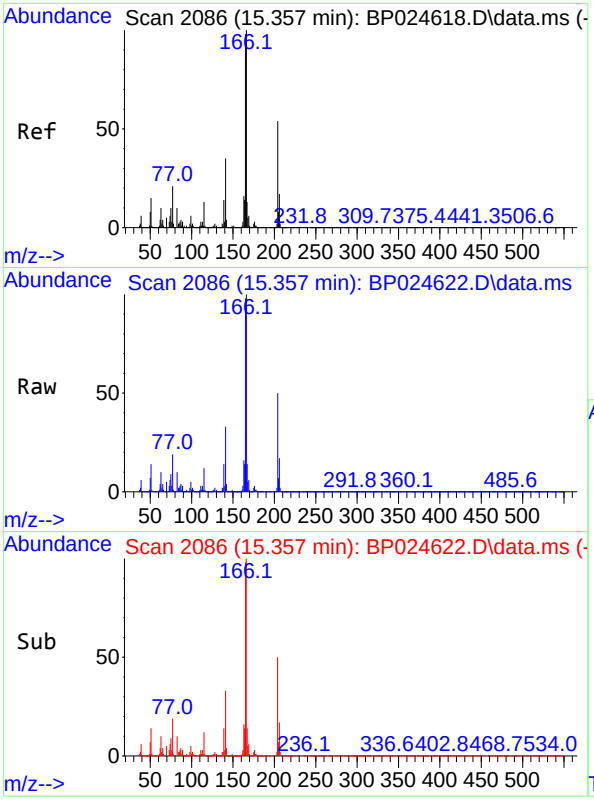


#60
Diethylphthalate
Concen: 38.17 ng
RT: 15.134 min Scan# 2048
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:149 Resp: 1150091

Ion	Ratio	Lower	Upper
149	100		
177	21.0	16.7	25.1
150	12.9	10.2	15.2

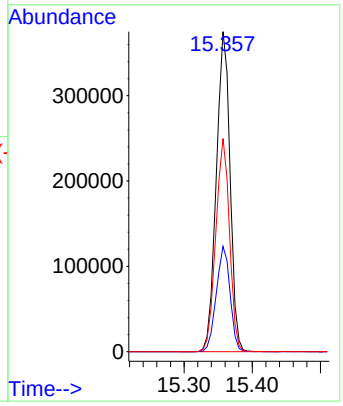




#61
4-Chlorophenyl-phenylether
Concen: 38.25 ng
RT: 15.357 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:204 Resp: 52606

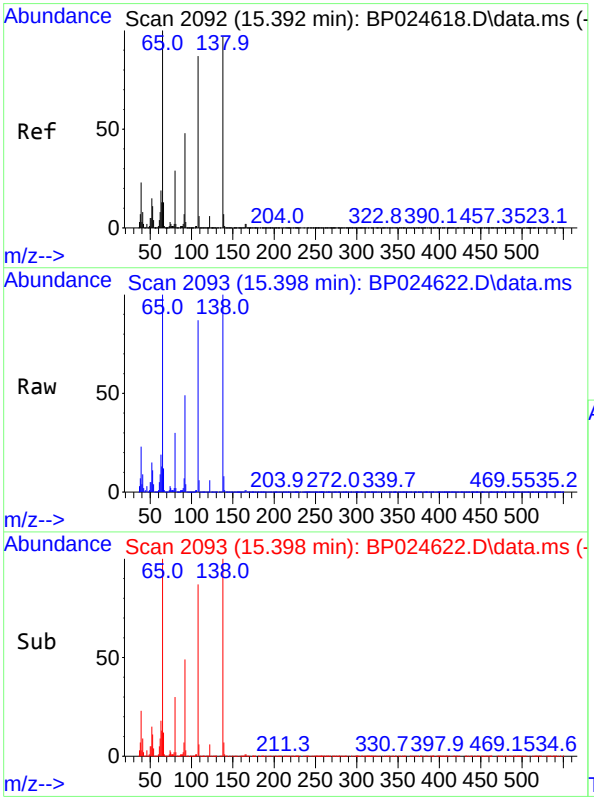
Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.0	39.0
141	66.6	52.9	79.3



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

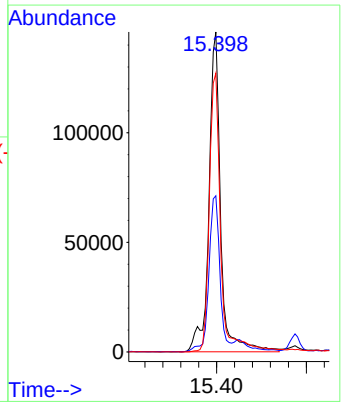
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

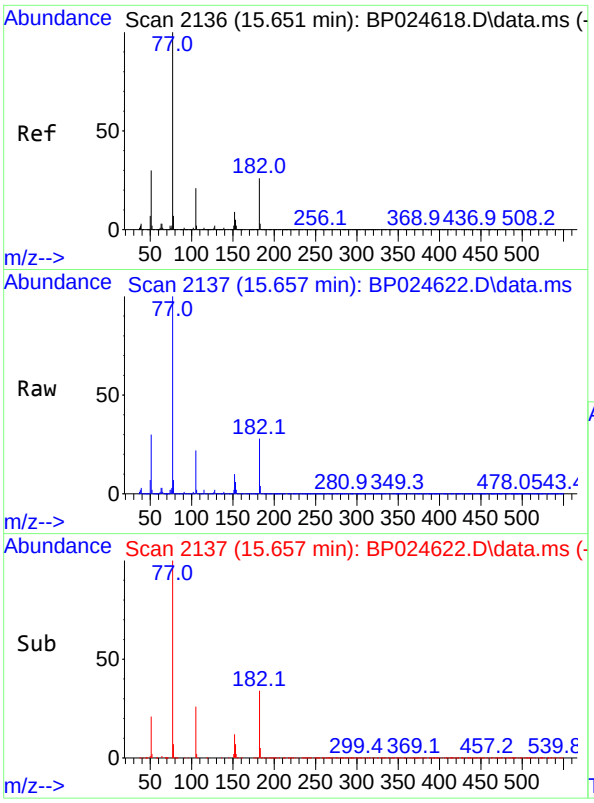


#62
4-Nitroaniline
Concen: 42.72 ng
RT: 15.398 min Scan# 2093
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:138 Resp: 265185

Ion	Ratio	Lower	Upper
138	100		
92	48.8	29.2	69.2
108	87.1	69.0	109.0

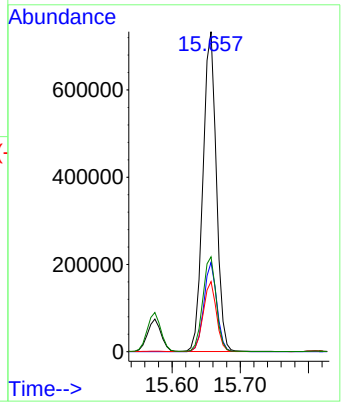




#63
Azobenzene
Concen: 38.82 ng
RT: 15.657 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 77 Resp: 100065

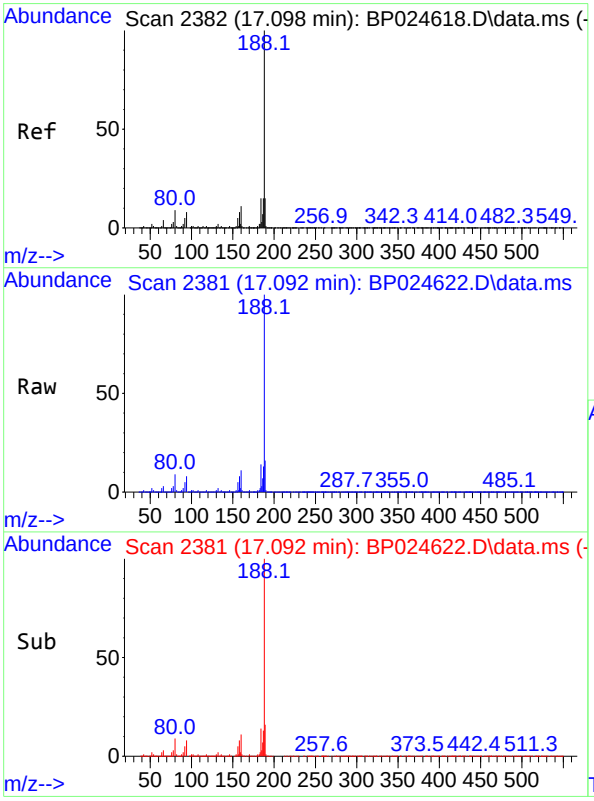
Ion	Ratio	Lower	Upper
77	100		
182	27.9	5.7	45.7
105	21.9	1.3	41.3
51	29.7	10.6	50.6



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

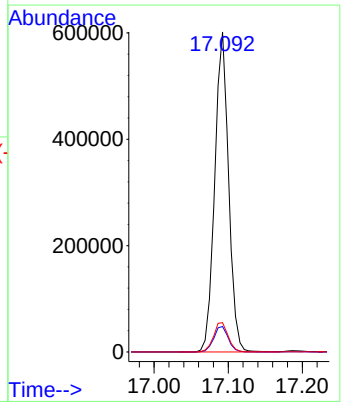
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

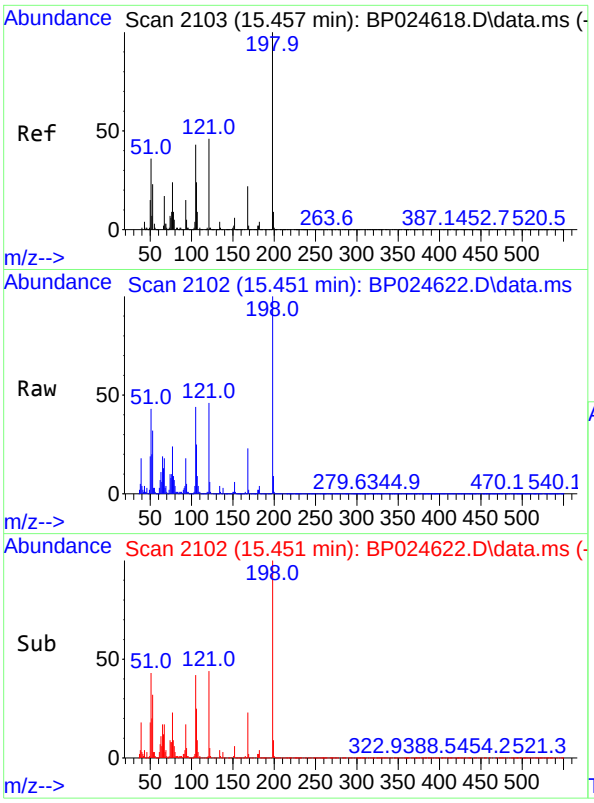


#64
Phenanthrene-d10
Concen: 20.00 ng
RT: 17.092 min Scan# 2381
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:188 Resp: 780511

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.5	9.7
80	9.2	7.3	10.9

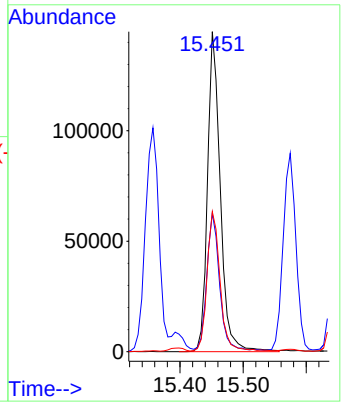




#65
4,6-Dinitro-2-methylphenol
Concen: 40.30 ng
RT: 15.451 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:198 Resp: 20320

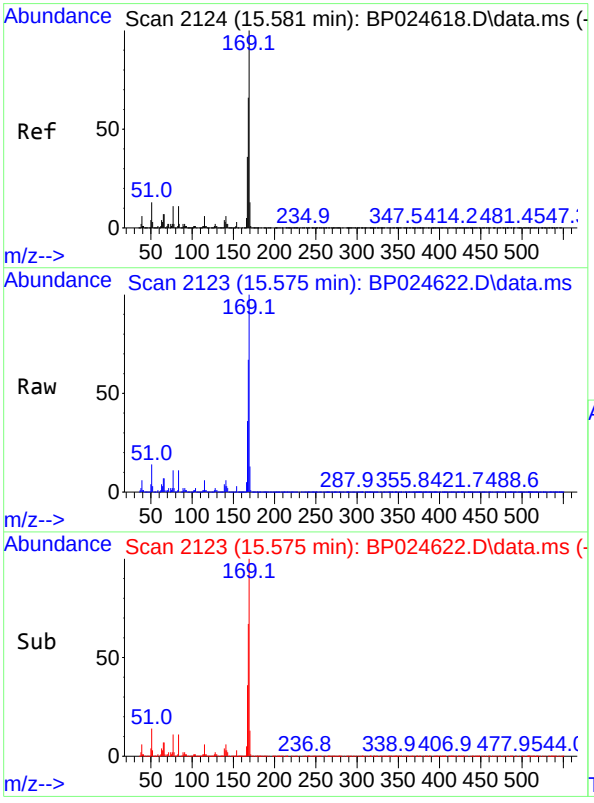
Ion	Ratio	Lower	Upper
198	100		
51	43.2	21.1	61.1
105	43.8	23.6	63.6



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations
APPROVED

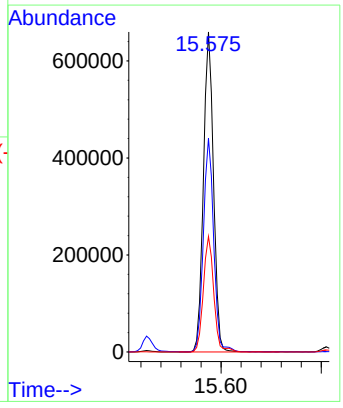
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

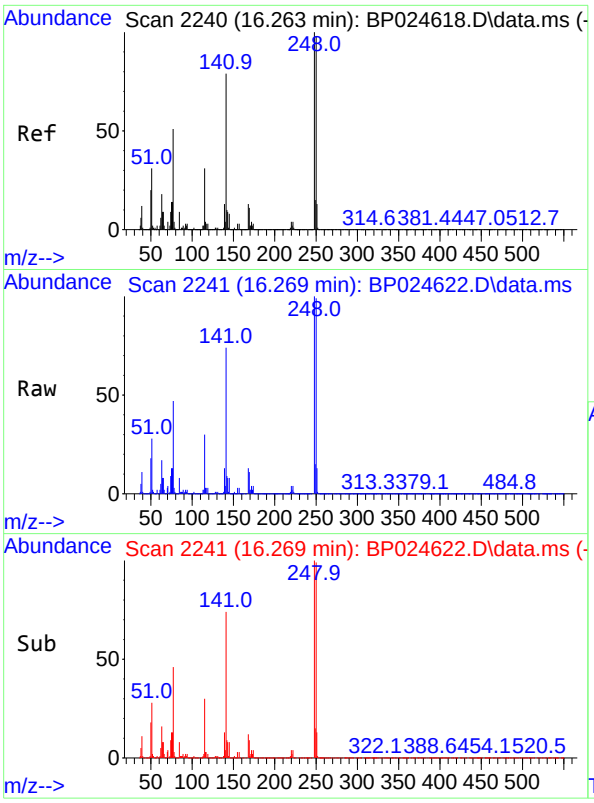


#66
n-Nitrosodiphenylamine
Concen: 38.38 ng
RT: 15.575 min Scan# 2123
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:169 Resp: 920187

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.2	79.8
167	36.1	28.6	43.0

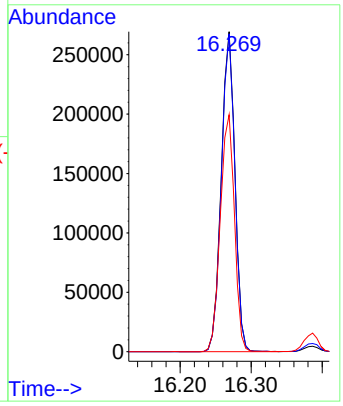




#67
4-Bromophenyl-phenylether
Concen: 38.91 ng
RT: 16.269 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:248 Resp: 35784

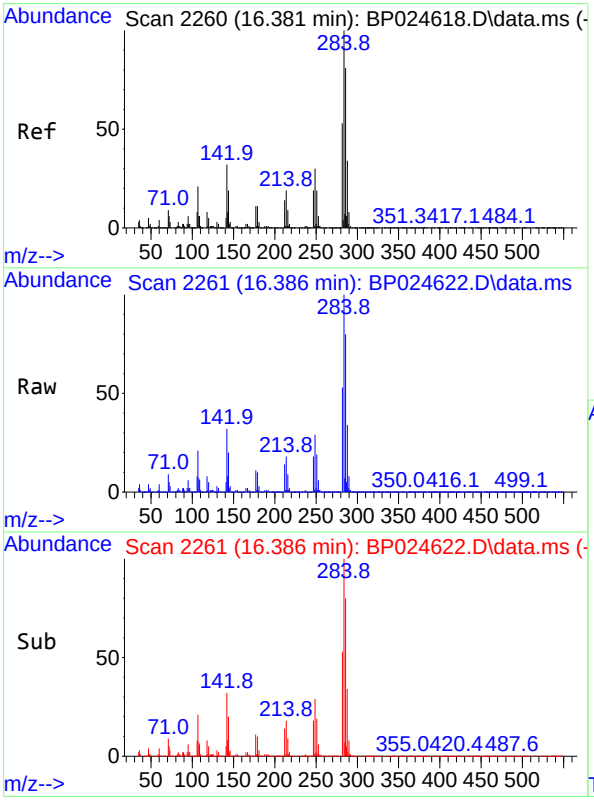
Ion	Ratio	Lower	Upper
248	100		
250	99.3	78.2	117.4
141	74.1	63.0	94.6



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

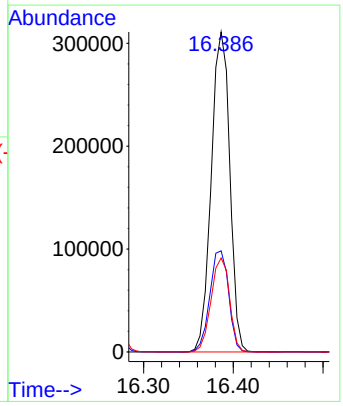
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

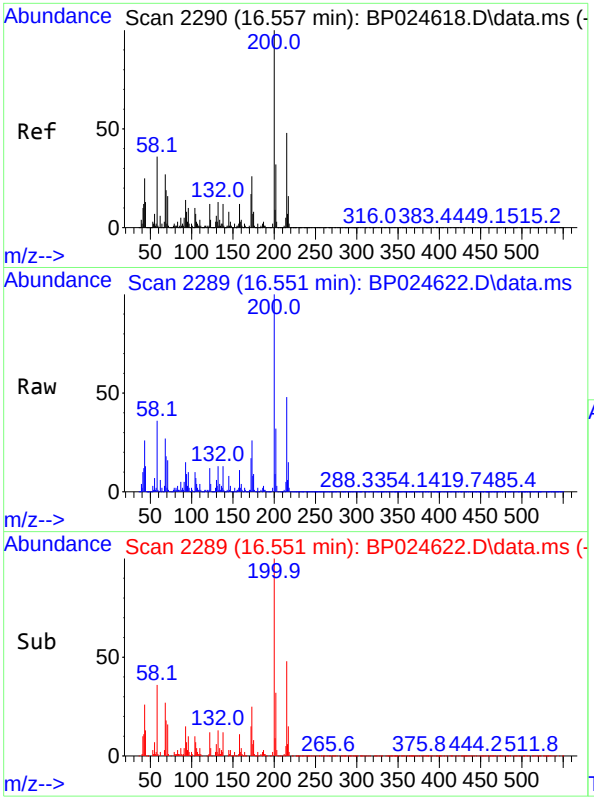


#68
Hexachlorobenzene
Concen: 38.18 ng
RT: 16.386 min Scan# 2261
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:284 Resp: 446142

Ion	Ratio	Lower	Upper
284	100		
142	31.6	25.9	38.9
249	29.3	24.1	36.1

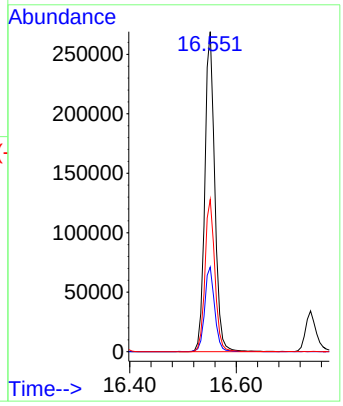




#69
Atrazine
Concen: 39.57 ng
RT: 16.551 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:200 Resp: 34766

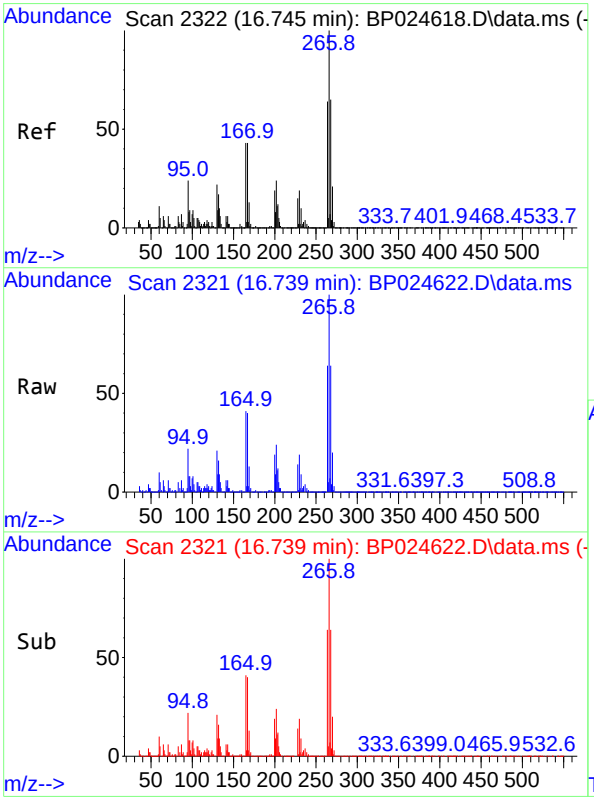
Ion	Ratio	Lower	Upper
200	100		
173	26.4	5.9	45.9
215	47.6	28.3	68.3



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

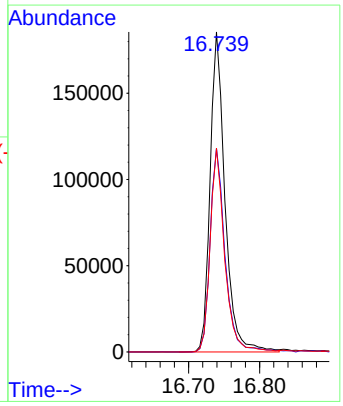
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

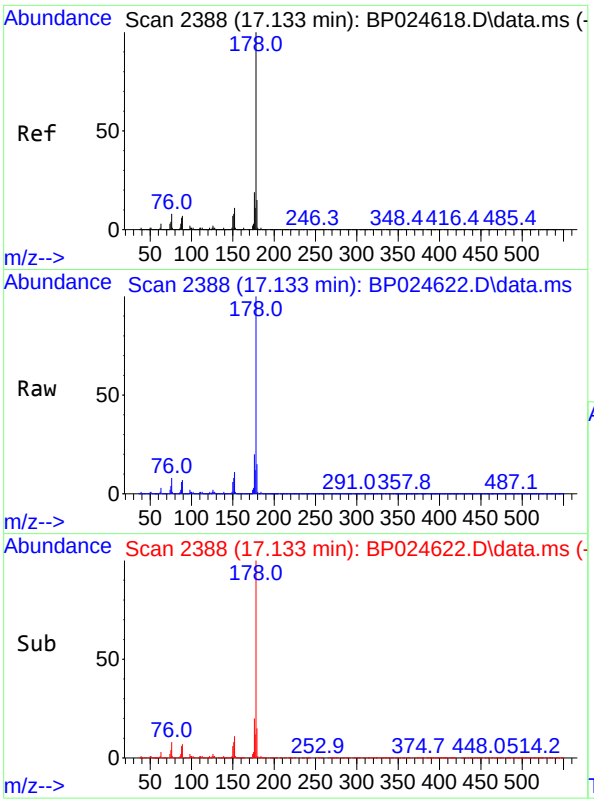


#70
Pentachlorophenol
Concen: 41.12 ng
RT: 16.739 min Scan# 2321
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:266 Resp: 269781

Ion	Ratio	Lower	Upper
266	100		
268	63.7	52.2	78.4
264	63.6	51.1	76.7

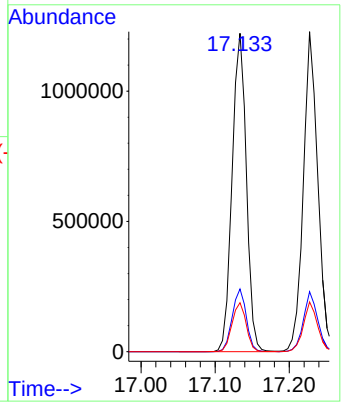




#71
Phenanthrene
Concen: 37.55 ng
RT: 17.133 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:178 Resp: 162911

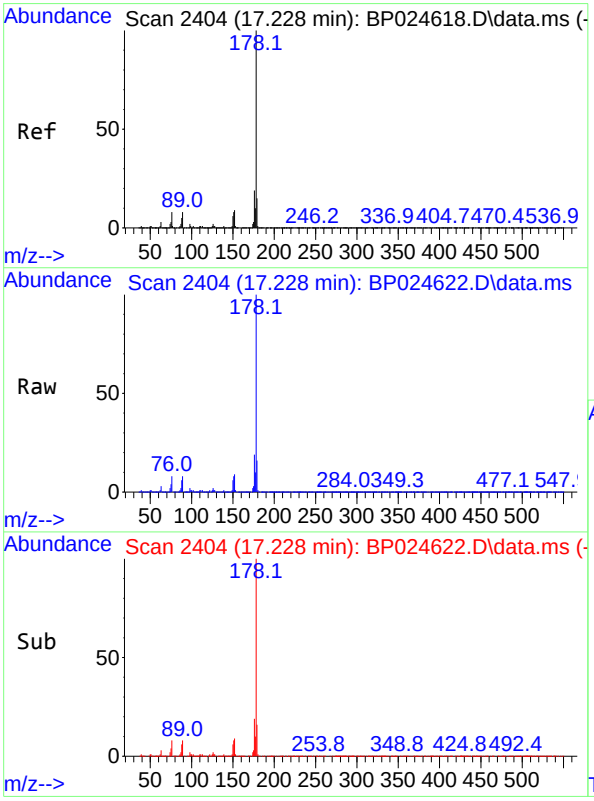
Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.4	23.2
179	15.4	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

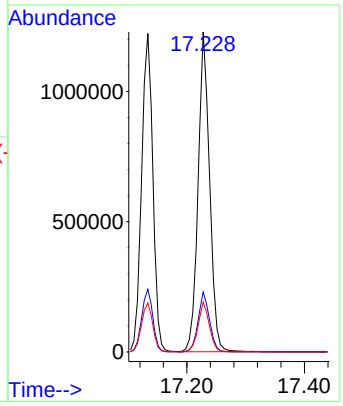
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

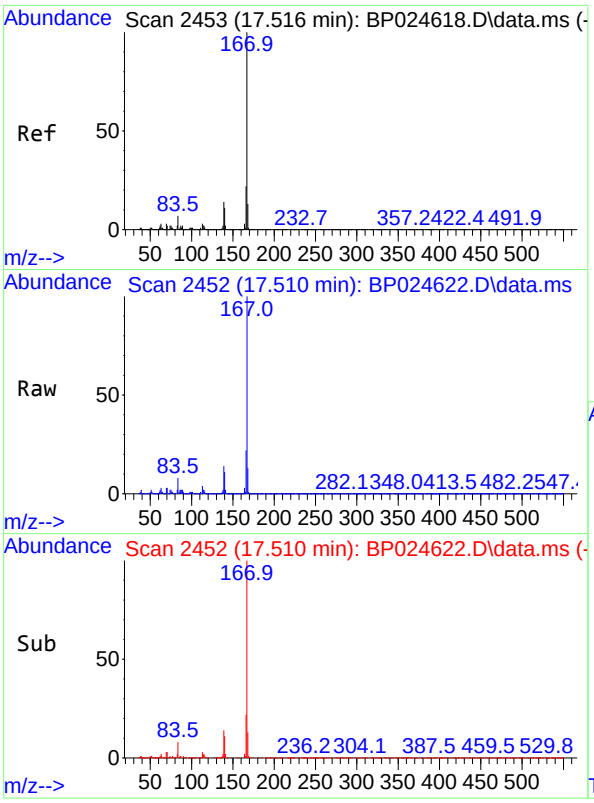


#72
Anthracene
Concen: 38.24 ng
RT: 17.228 min Scan# 2404
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:178 Resp: 1669395

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.5	12.2	18.2

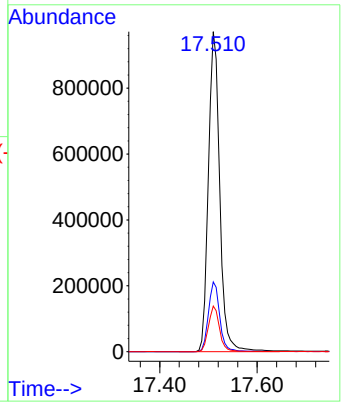




#73
Carbazole
Concen: 39.57 ng
RT: 17.510 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:167 Resp: 156368

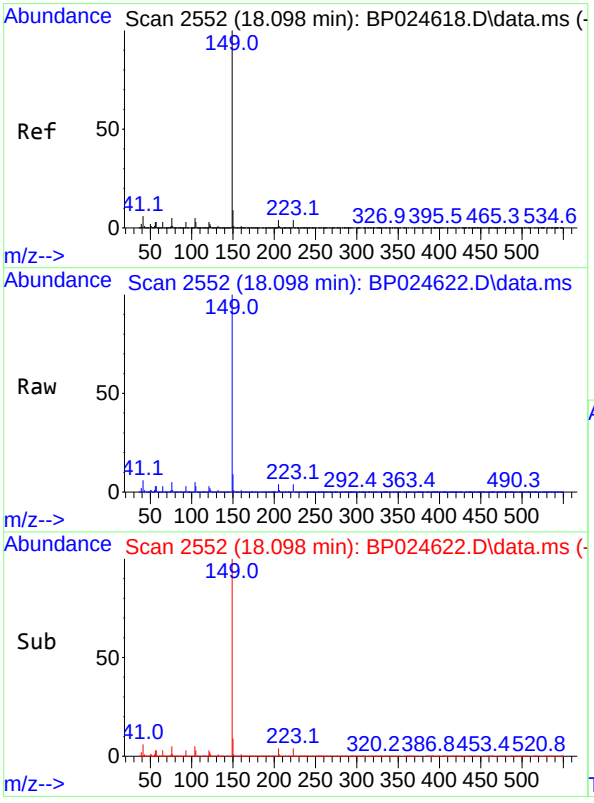
Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.7	26.5
139	14.2	11.3	16.9



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

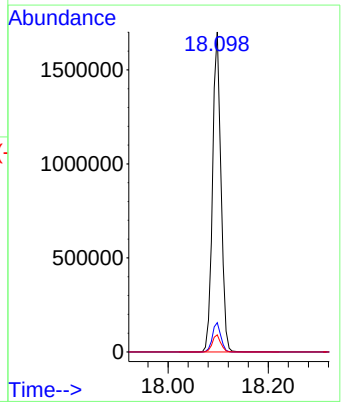
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

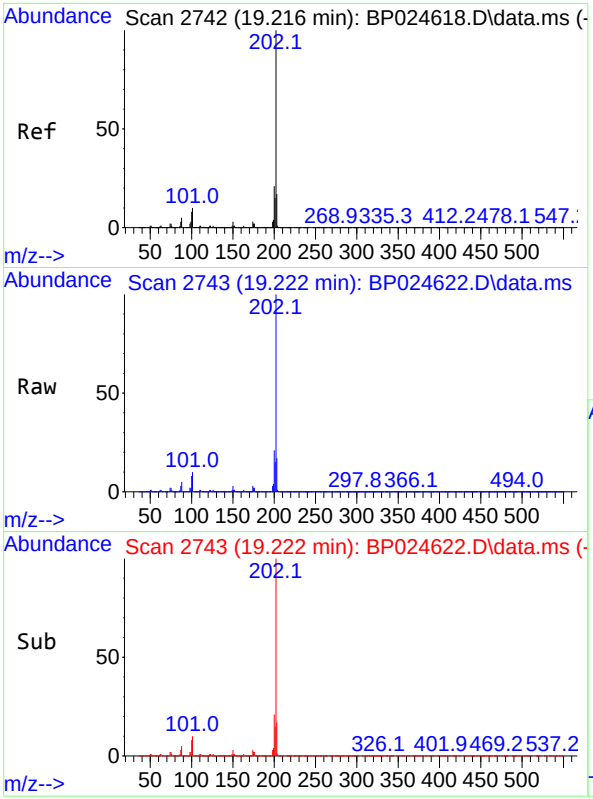


#74
Di-n-butylphthalate
Concen: 38.94 ng
RT: 18.098 min Scan# 2552
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:149 Resp: 1978741

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	5.4	4.3	6.5

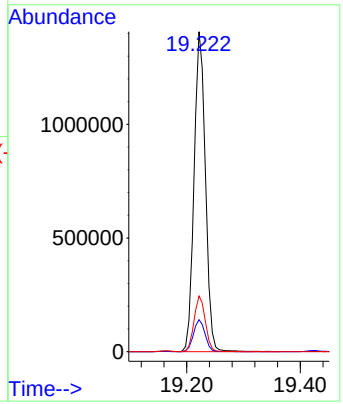




#75
Fluoranthene
Concen: 38.57 ng
RT: 19.222 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:202 Resp: 195604

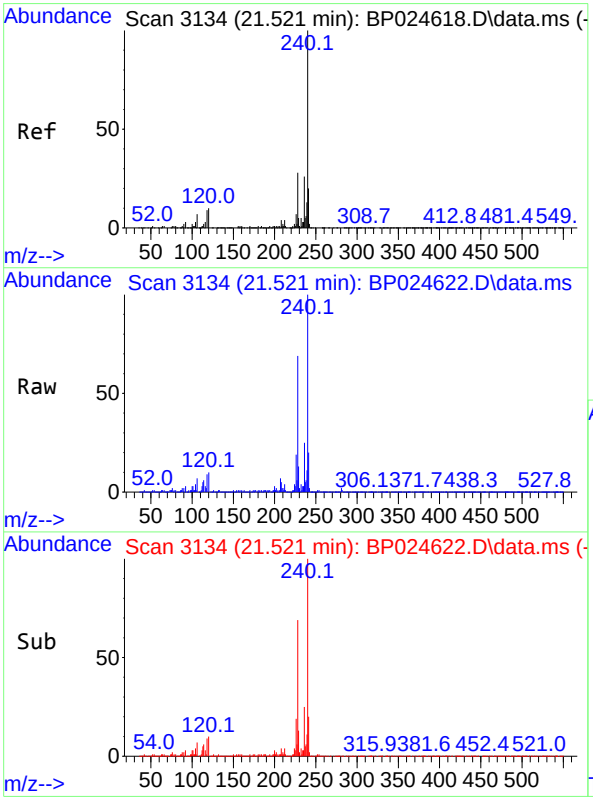
Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	30.3
203	17.4	0.0	37.5



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

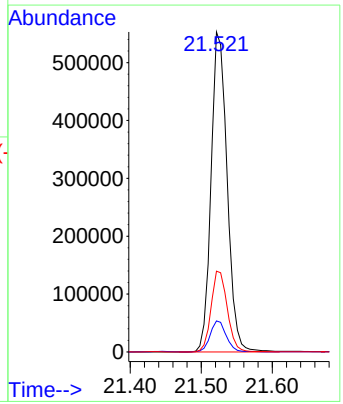
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

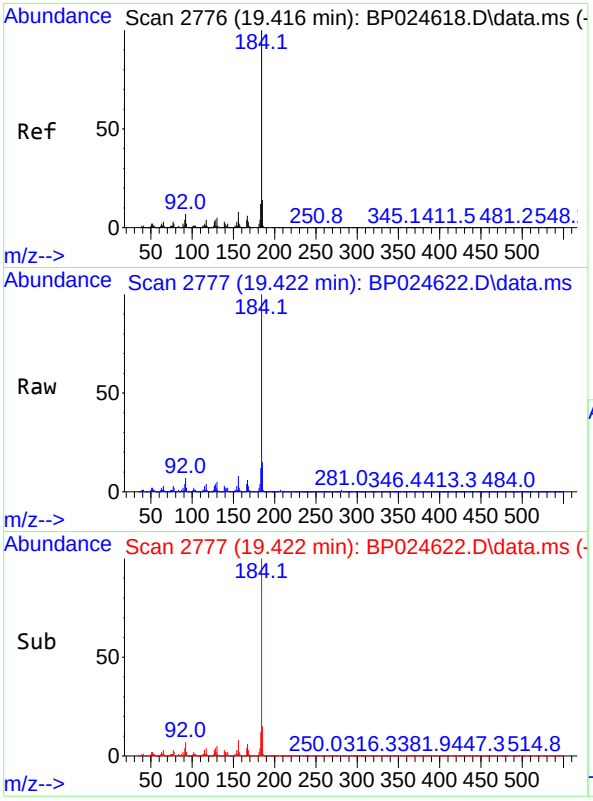


#76
Chrysene-d12
Concen: 20.00 ng
RT: 21.521 min Scan# 3134
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:240 Resp: 868822

Ion	Ratio	Lower	Upper
240	100		
120	9.7	7.8	11.6
236	25.2	20.6	31.0

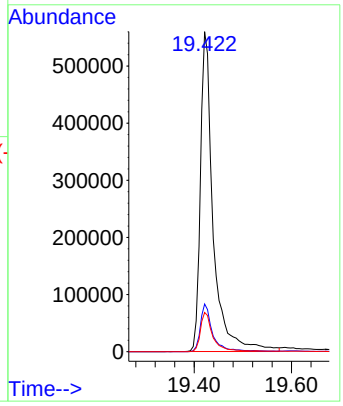




#77
Benzidine
Concen: 43.25 ng
RT: 19.422 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:184 Resp: 102351

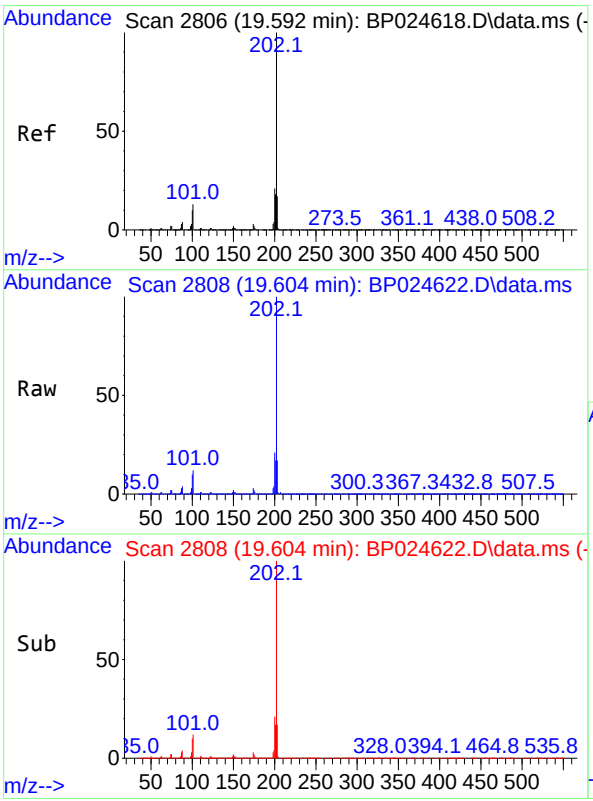
Ion	Ratio	Lower	Upper
184	100		
185	14.9	11.2	16.8
183	12.3	9.8	14.8



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

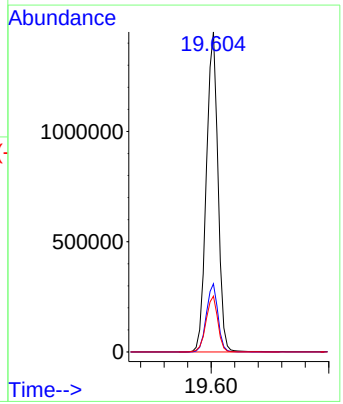
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

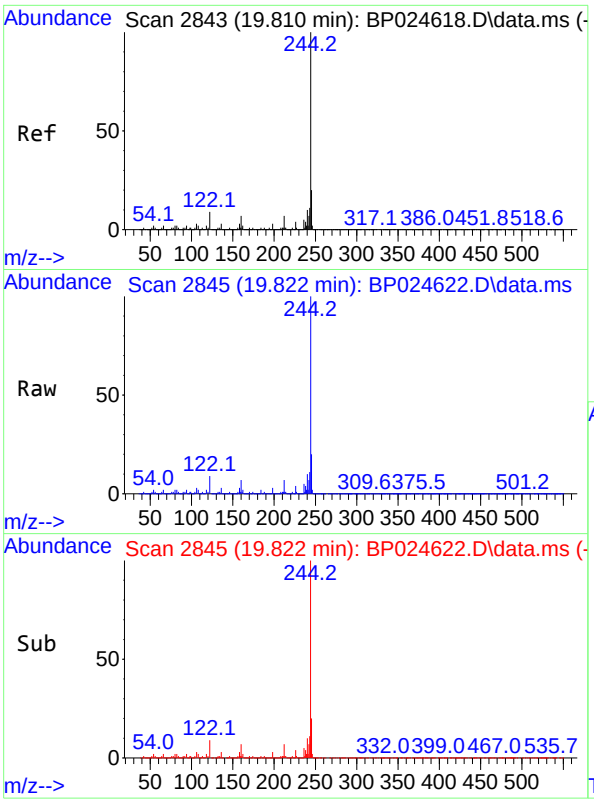


#78
Pyrene
Concen: 38.28 ng
RT: 19.604 min Scan# 2808
Delta R.T. 0.012 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:202 Resp: 1992845

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	17.5	13.9	20.9

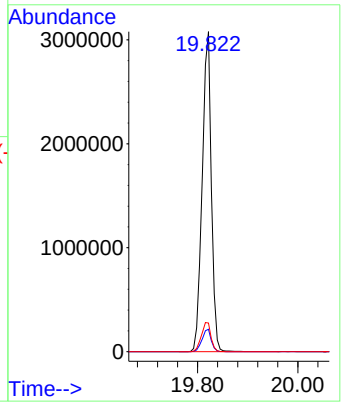




#79
Terphenyl-d14
Concen: 76.75 ng
RT: 19.822 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:244 Resp: 388900

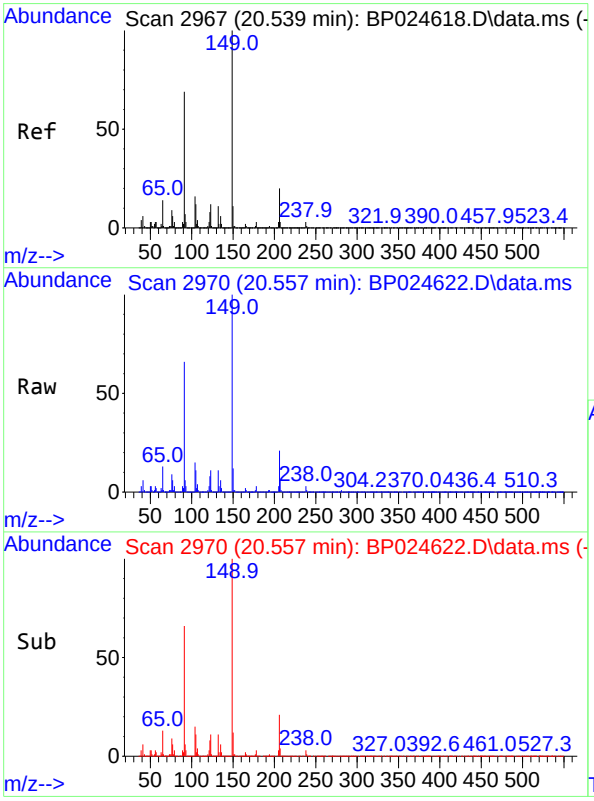
Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	9.0	7.4	11.0



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

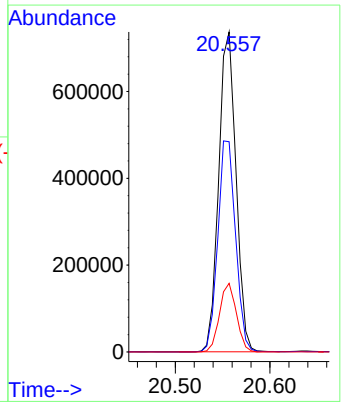
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

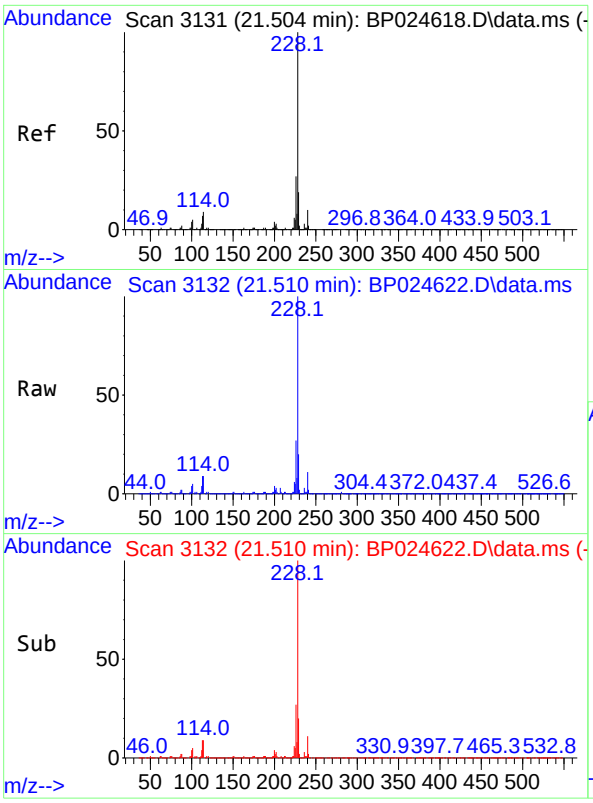


#80
Butylbenzylphthalate
Concen: 40.52 ng
RT: 20.557 min Scan# 2970
Delta R.T. 0.018 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:149 Resp: 938210

Ion	Ratio	Lower	Upper
149	100		
91	65.7	55.4	83.0
206	21.5	16.2	24.2

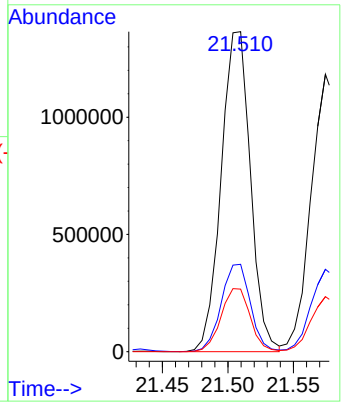




#81
Benzo(a)anthracene
Concen: 38.89 ng
RT: 21.510 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:228 Resp: 212156

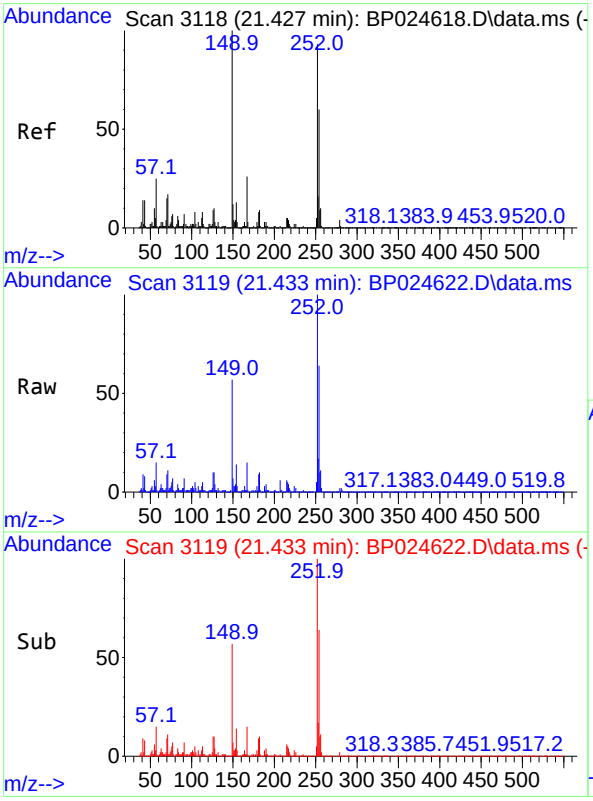
Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.4	32.0
229	19.6	15.5	23.3



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

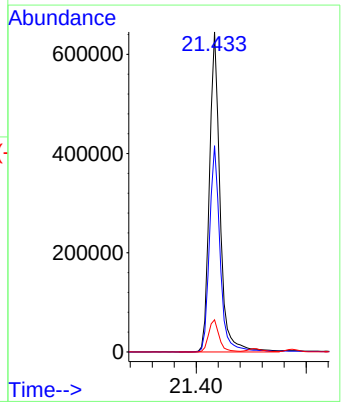
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

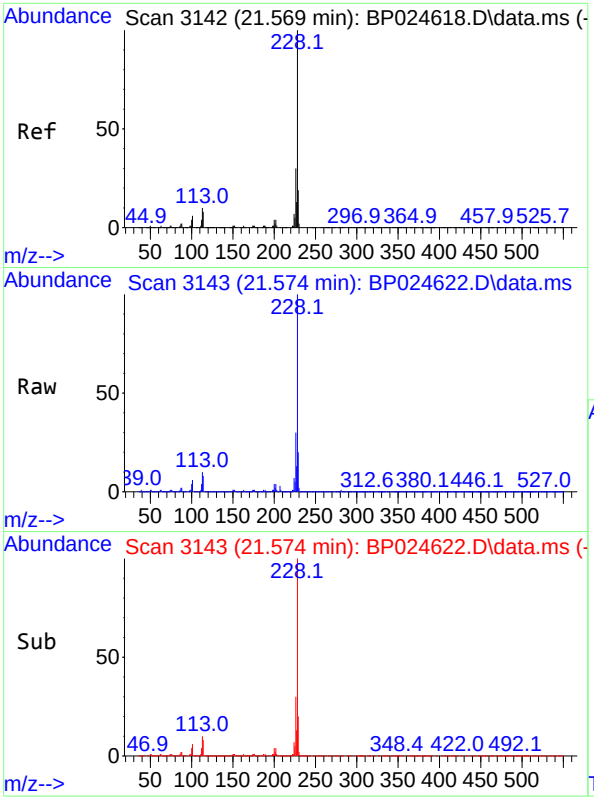


#82
3,3'-Dichlorobenzidine
Concen: 42.51 ng
RT: 21.433 min Scan# 3119
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:252 Resp: 861323

Ion	Ratio	Lower	Upper
252	100		
254	64.4	51.8	77.6
126	10.1	7.7	11.5

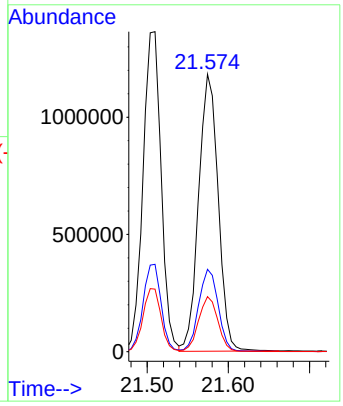




#83
Chrysene
Concen: 38.23 ng
RT: 21.574 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:228 Resp: 197694

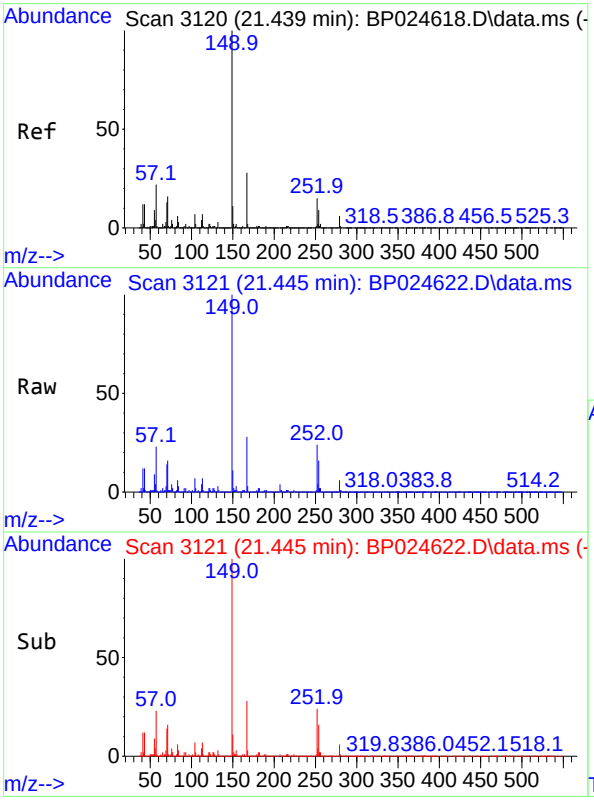
Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.9	35.9
229	19.9	15.5	23.3



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

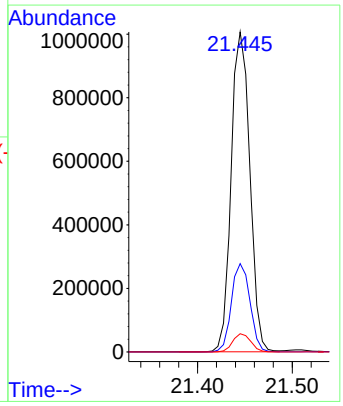
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

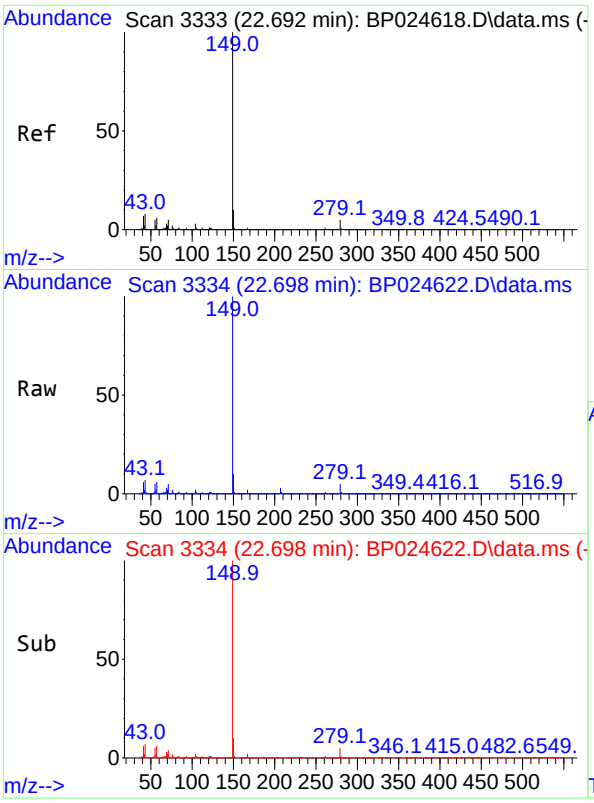


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.43 ng
RT: 21.445 min Scan# 3121
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:149 Resp: 1375919

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.1	33.1
279	5.7	4.6	6.8

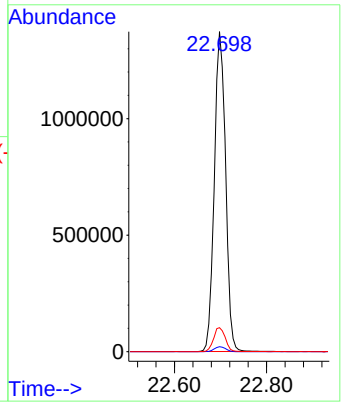




#85
Di-n-octyl phthalate
Concen: 41.72 ng
RT: 22.698 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:149 Resp: 232167

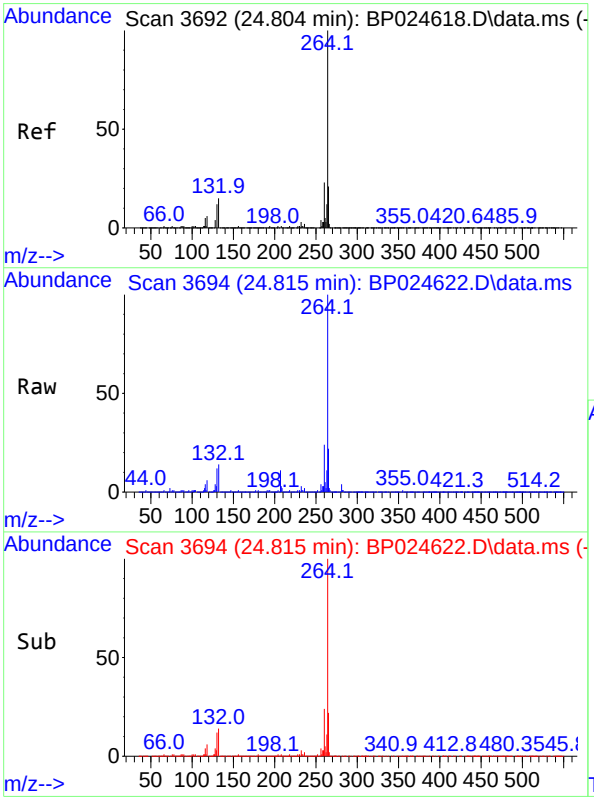
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.8	6.3	9.5



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations
APPROVED

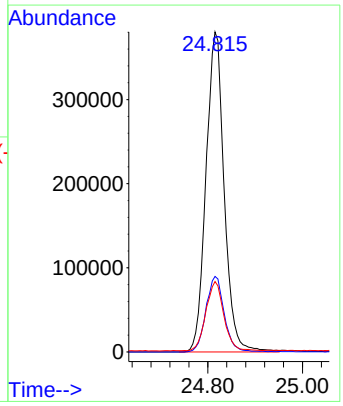
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

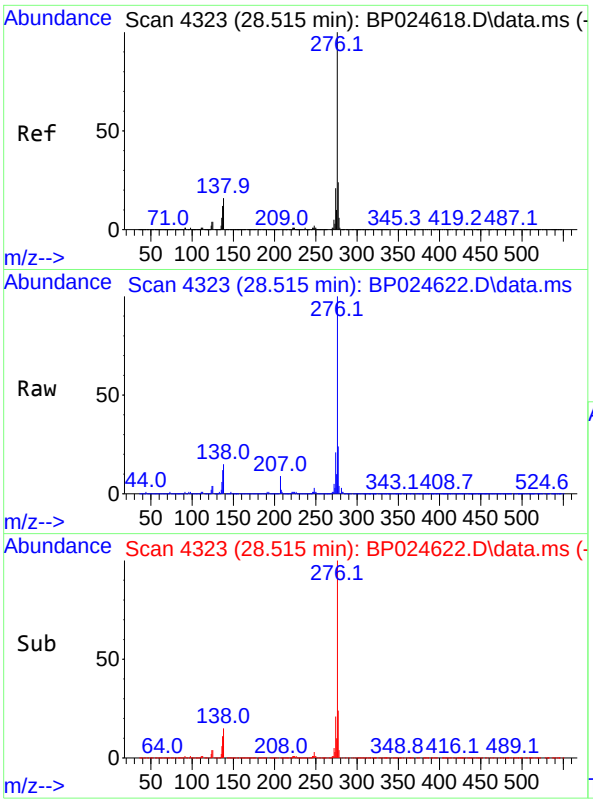


#86
Perylene-d12
Concen: 20.00 ng
RT: 24.815 min Scan# 3694
Delta R.T. 0.012 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:264 Resp: 1015341

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.7	28.1
265	22.0	17.0	25.6

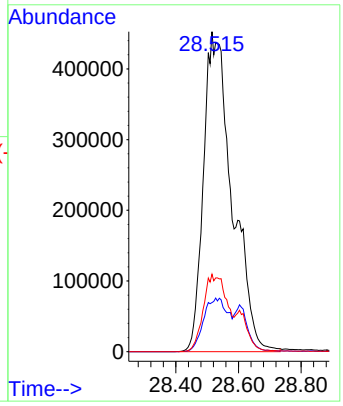




#87
Indeno(1,2,3-cd)pyrene
Concen: 38.85 ng m
RT: 28.515 min Scan# 4
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:276 Resp: 287986

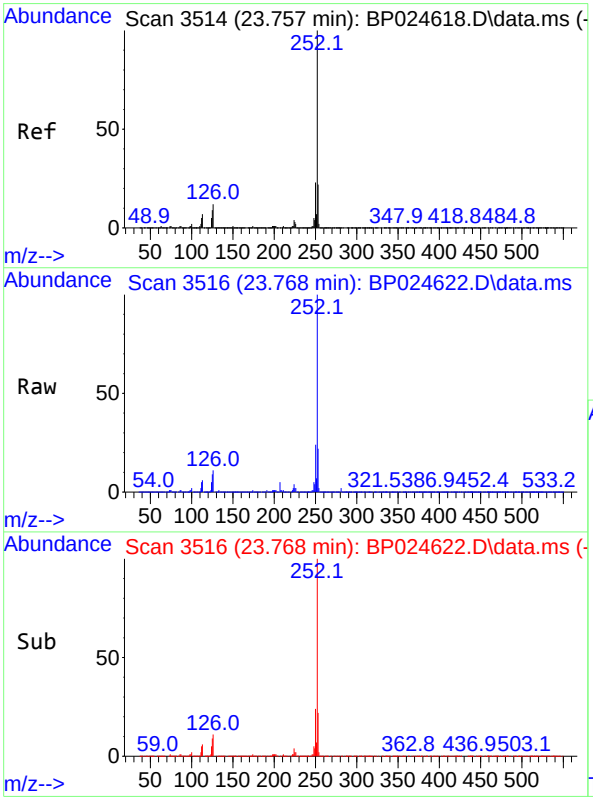
Ion	Ratio	Lower	Upper
276	100		
138	14.2	11.2	16.8
277	10.6	15.7	23.5



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

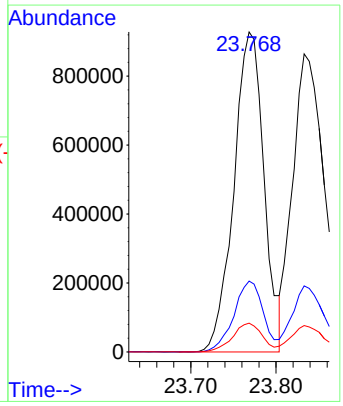
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

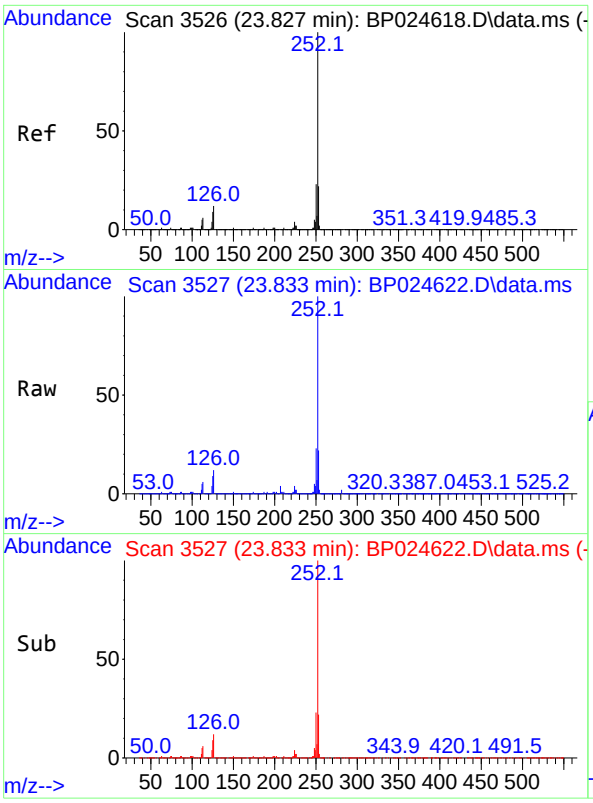


#88
Benzo(b)fluoranthene
Concen: 39.29 ng
RT: 23.768 min Scan# 3516
Delta R.T. 0.012 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:252 Resp: 2283322

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	9.0	7.5	11.3

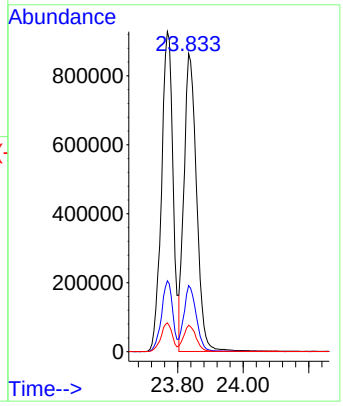




#89
Benzo(k)fluoranthene
Concen: 38.22 ng
RT: 23.833 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:252 Resp: 228900

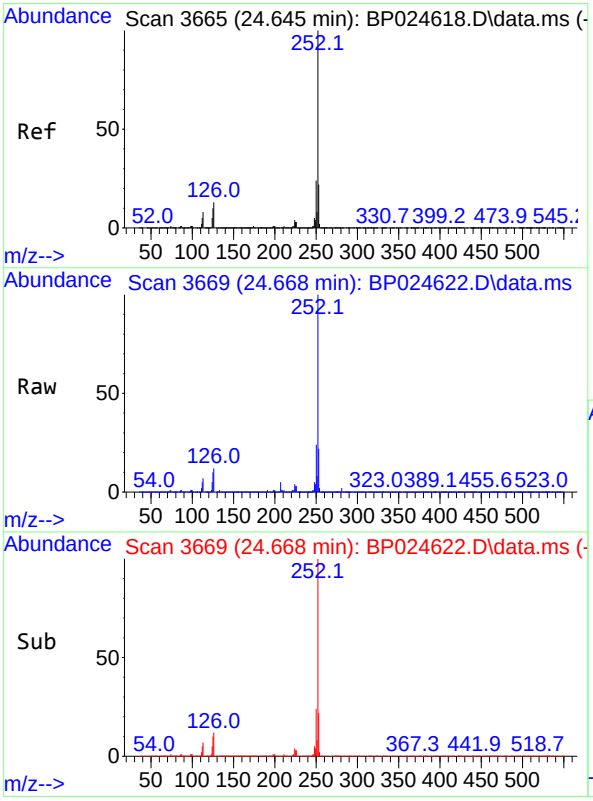
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	8.9	7.0	10.4



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

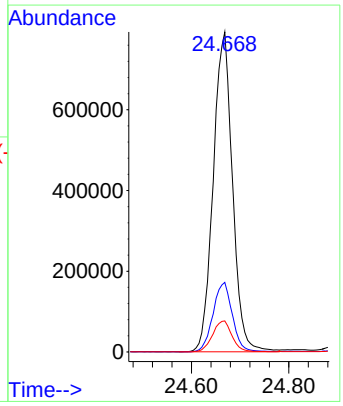
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025

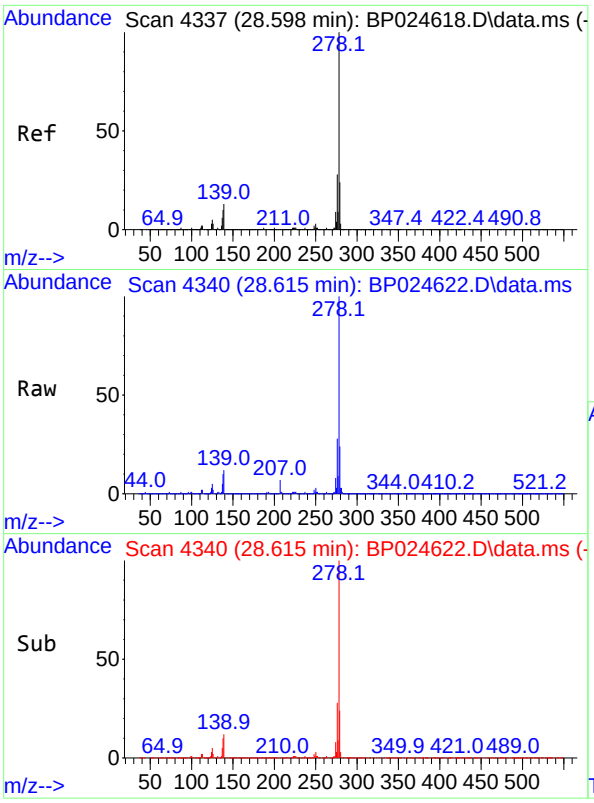


#90
Benzo(a)pyrene
Concen: 39.00 ng
RT: 24.668 min Scan# 3669
Delta R.T. 0.023 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:252 Resp: 2177020

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	9.7	8.1	12.1

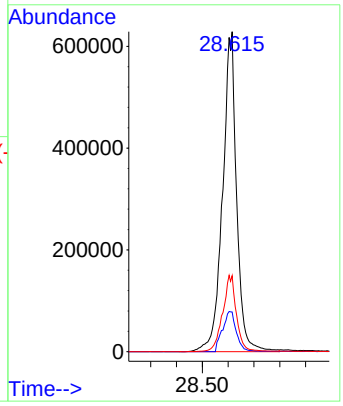




#91
Dibenzo(a,h)anthracene
Concen: 39.38 ng
RT: 28.615 min Scan# 4
Delta R.T. 0.018 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:278 Resp: 237455

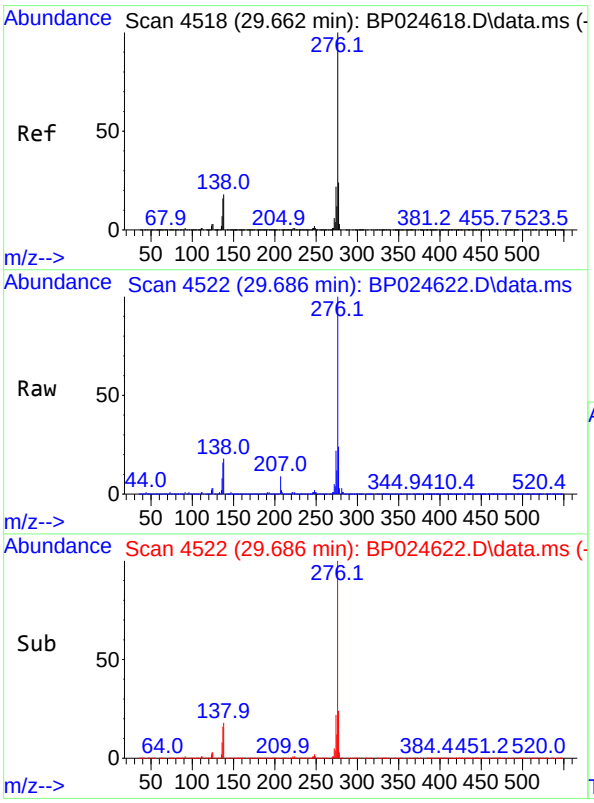
Ion	Ratio	Lower	Upper
278	100		
139	12.4	10.2	15.4
279	23.8	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Manual Integrations APPROVED

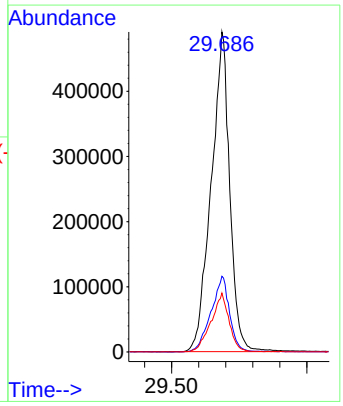
Reviewed By :Rahul Chavli 05/14/2025
Supervised By :Jagrut Upadhyay 05/14/2025



#92
Benzo(g,h,i)perylene
Concen: 38.91 ng
RT: 29.686 min Scan# 4522
Delta R.T. 0.023 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:276 Resp: 2333151

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.0	28.4
138	18.4	14.4	21.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024622.D
Acq On : 13 May 2025 17:01
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	119	0.00
2		1,4-Dioxane	0.549	0.505	8.0	119	0.00
3		Pyridine	1.218	1.203	1.2	120	0.00
4		n-Nitrosodimethylamine	0.538	0.510	5.2	118	0.00
5	S	2-Fluorophenol	1.169	1.139	2.6	123	0.00
6		Aniline	1.927	1.889	2.0	118	0.00
7	S	Phenol-d6	1.492	1.475	1.1	120	0.00
8		2-Chlorophenol	1.327	1.306	1.6	120	0.00
9		Benzaldehyde	0.966	0.943	2.4	118	0.00
10	C	Phenol	1.540	1.505	2.3	119	0.00
11		bis(2-Chloroethyl)ether	1.266	1.200	5.2	118	0.00
12		1,3-Dichlorobenzene	1.527	1.447	5.2	120	0.00
13	C	1,4-Dichlorobenzene	1.536	1.456	5.2	118	0.00
14		1,2-Dichlorobenzene	1.497	1.418	5.3	119	0.00
15		Benzyl Alcohol	1.134	1.149	-1.3	119	0.00
16		2,2'-oxybis(1-Chloropropane	1.516	1.441	4.9	117	0.00
17		2-Methylphenol	1.105	1.094	1.0	119	0.00
18		Hexachloroethane	0.589	0.548	7.0	119	0.00
19	P	n-Nitroso-di-n-propylamine	1.032	1.011	2.0	115	0.00
20		3+4-Methylphenols	1.503	1.486	1.1	117	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	115	0.00
22		Acetophenone	0.500	0.480	4.0	115	0.00
23	S	Nitrobenzene-d5	0.396	0.387	2.3	116	0.00
24		Nitrobenzene	0.348	0.335	3.7	115	0.00
25		Isophorone	0.687	0.661	3.8	113	0.00
26	C	2-Nitrophenol	0.171	0.175	-2.3	118	0.00
27		2,4-Dimethylphenol	0.301	0.297	1.3	115	0.00
28		bis(2-Chloroethoxy)methane	0.410	0.397	3.2	115	0.00
29	C	2,4-Dichlorophenol	0.292	0.293	-0.3	116	0.00
30		1,2,4-Trichlorobenzene	0.329	0.313	4.9	118	0.00
31		Naphthalene	1.036	0.986	4.8	116	0.00
32		Benzoic acid	0.181	0.180	0.6	108	0.00
33		4-Chloroaniline	0.418	0.422	-1.0	116	0.00
34	C	Hexachlorobutadiene	0.213	0.198	7.0	115	0.00
35		Caprolactam	0.106	0.105	0.9	110	0.00
36	C	4-Chloro-3-methylphenol	0.356	0.347	2.5	112	0.00
37		2-Methylnaphthalene	0.671	0.635	5.4	114	0.00
38		1-Methylnaphthalene	0.718	0.670	6.7	112	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	108	-0.01
40		1,2,4,5-Tetrachlorobenzene	0.581	0.568	2.2	112	0.00
41	P	Hexachlorocyclopentadiene	0.352	0.391	-11.1	118	0.00
42	S	2,4,6-Tribromophenol	0.339	0.333	1.8	111	0.00
43	C	2,4,6-Trichlorophenol	0.376	0.391	-4.0	114	0.00
44		2,4,5-Trichlorophenol	0.419	0.430	-2.6	115	0.00
45	S	2-Fluorobiphenyl	1.527	1.464	4.1	110	0.00
46		1,1'-Biphenyl	1.478	1.438	2.7	112	0.00
47		2-Chloronaphthalene	1.127	1.106	1.9	112	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024622.D
Acq On : 13 May 2025 17:01
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	0.334	0.339	-1.5	109	0.00
49		Acenaphthylene	1.886	1.815	3.8	109	0.00
50		Dimethylphthalate	1.524	1.477	3.1	110	0.00
51		2,6-Dinitrotoluene	0.322	0.316	1.9	109	0.00
52	C	Acenaphthene	1.084	1.028	5.2	108	0.00
53		3-Nitroaniline	0.329	0.336	-2.1	107	0.00
54	P	2,4-Dinitrophenol	0.169	0.173	-2.4	109	0.00
55		Dibenzofuran	1.730	1.639	5.3	108	0.00
56	P	4-Nitrophenol	0.250	0.259	-3.6	109	0.00
57		2,4-Dinitrotoluene	0.454	0.454	0.0	108	0.00
58		Fluorene	1.410	1.355	3.9	109	0.00
59		2,3,4,6-Tetrachlorophenol	0.388	0.381	1.8	109	0.00
60		Diethylphthalate	1.541	1.470	4.6	110	0.00
61		4-Chlorophenyl-phenylether	0.703	0.673	4.3	111	0.00
62		4-Nitroaniline	0.317	0.339	-6.9	111	0.00
63		Azobenzene	1.318	1.279	3.0	110	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	109	0.00
65		4,6-Dinitro-2-methylphenol	0.129	0.130	-0.8	110	0.00
66	c	n-Nitrosodiphenylamine	0.614	0.589	4.1	108	0.00
67		4-Bromophenyl-phenylether	0.236	0.229	3.0	111	0.00
68		Hexachlorobenzene	0.299	0.286	4.3	110	0.00
69		Atrazine	0.225	0.223	0.9	111	0.00
70	C	Pentachlorophenol	0.168	0.173	-3.0	109	0.00
71		Phenanthrene	1.112	1.044	6.1	108	0.00
72		Anthracene	1.119	1.069	4.5	108	0.00
73		Carbazole	1.012	1.002	1.0	109	0.00
74		Di-n-butylphthalate	1.302	1.268	2.6	109	0.00
75	C	Fluoranthene	1.300	1.253	3.6	109	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	107	0.00
77		Benzidine	0.545	0.589	-8.1	113	0.00
78		Pyrene	1.198	1.147	4.3	107	0.01
79	S	Terphenyl-d14	1.166	1.119	4.0	107	0.01
80		Butylbenzylphthalate	0.533	0.540	-1.3	110	0.02
81		Benzo(a)anthracene	1.256	1.221	2.8	108	0.00
82		3,3'-Dichlorobenzidine	0.466	0.496	-6.4	111	0.00
83		Chrysene	1.190	1.138	4.4	108	0.00
84		Bis(2-ethylhexyl)phthalate	0.783	0.792	-1.1	111	0.00
85	c	Di-n-octyl phthalate	1.281	1.336	-4.3	112	0.00
86	I	Perylene-d12	1.000	1.000	0.0	109	0.01
87		Indeno(1,2,3-cd)pyrene	1.460	1.418	2.9	109	0.00
88		Benzo(b)fluoranthene	1.145	1.124	1.8	111	0.01
89		Benzo(k)fluoranthene	1.180	1.127	4.5	108	0.00
90	C	Benzo(a)pyrene	1.099	1.072	2.5	110	0.02
91		Dibenzo(a,h)anthracene	1.188	1.169	1.6	109	0.02
92		Benzo(g,h,i)perylene	1.181	1.149	2.7	109	0.02

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024622.D
Acq On : 13 May 2025 17:01
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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_P\Data\BP051325\
Data File : BP024622.D
Acq On : 13 May 2025 17:01
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	119	0.00
2		1,4-Dioxane	40.000	36.789	8.0	119	0.00
3		Pyridine	40.000	39.526	1.2	120	0.00
4		n-Nitrosodimethylamine	40.000	37.979	5.1	118	0.00
5	S	2-Fluorophenol	80.000	77.955	2.6	123	0.00
6		Aniline	40.000	39.210	2.0	118	0.00
7	S	Phenol-d6	80.000	79.089	1.1	120	0.00
8		2-Chlorophenol	40.000	39.367	1.6	120	0.00
9		Benzaldehyde	40.000	39.033	2.4	118	0.00
10	C	Phenol	40.000	39.089	2.3	119	0.00
11		bis(2-Chloroethyl)ether	40.000	37.938	5.2	118	0.00
12		1,3-Dichlorobenzene	40.000	37.893	5.3	120	0.00
13	C	1,4-Dichlorobenzene	40.000	37.904	5.2	118	0.00
14		1,2-Dichlorobenzene	40.000	37.896	5.3	119	0.00
15		Benzyl Alcohol	40.000	40.541	-1.4	119	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	38.037	4.9	117	0.00
17		2-Methylphenol	40.000	39.618	1.0	119	0.00
18		Hexachloroethane	40.000	37.211	7.0	119	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.165	2.1	115	0.00
20		3+4-Methylphenols	40.000	39.562	1.1	117	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	115	0.00
22		Acetophenone	40.000	38.468	3.8	115	0.00
23	S	Nitrobenzene-d5	80.000	78.227	2.2	116	0.00
24		Nitrobenzene	40.000	38.505	3.7	115	0.00
25		Isophorone	40.000	38.491	3.8	113	0.00
26	C	2-Nitrophenol	40.000	41.121	-2.8	118	0.00
27		2,4-Dimethylphenol	40.000	39.484	1.3	115	0.00
28		bis(2-Chloroethoxy)methane	40.000	38.714	3.2	115	0.00
29	C	2,4-Dichlorophenol	40.000	40.189	-0.5	116	0.00
30		1,2,4-Trichlorobenzene	40.000	38.109	4.7	118	0.00
31		Naphthalene	40.000	38.069	4.8	116	0.00
32		Benzoic acid	40.000	36.464	8.8	108	0.00
33		4-Chloroaniline	40.000	40.368	-0.9	116	0.00
34	C	Hexachlorobutadiene	40.000	37.285	6.8	115	0.00
35		Caprolactam	40.000	39.752	0.6	110	0.00
36	C	4-Chloro-3-methylphenol	40.000	39.013	2.5	112	0.00
37		2-Methylnaphthalene	40.000	37.852	5.4	114	0.00
38		1-Methylnaphthalene	40.000	37.339	6.7	112	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	108	-0.01
40		1,2,4,5-Tetrachlorobenzene	40.000	39.130	2.2	112	0.00
41	P	Hexachlorocyclopentadiene	40.000	44.371	-10.9	118	0.00
42	S	2,4,6-Tribromophenol	80.000	78.525	1.8	111	0.00
43	C	2,4,6-Trichlorophenol	40.000	41.549	-3.9	114	0.00
44		2,4,5-Trichlorophenol	40.000	41.064	-2.7	115	0.00
45	S	2-Fluorobiphenyl	80.000	76.733	4.1	110	0.00
46		1,1'-Biphenyl	40.000	38.906	2.7	112	0.00
47		2-Chloronaphthalene	40.000	39.238	1.9	112	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024622.D
Acq On : 13 May 2025 17:01
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	40.604	-1.5	109	0.00
49		Acenaphthylene	40.000	38.493	3.8	109	0.00
50		Dimethylphthalate	40.000	38.751	3.1	110	0.00
51		2,6-Dinitrotoluene	40.000	39.317	1.7	109	0.00
52	C	Acenaphthene	40.000	37.904	5.2	108	0.00
53		3-Nitroaniline	40.000	40.871	-2.2	107	0.00
54	P	2,4-Dinitrophenol	40.000	37.829	5.4	109	0.00
55		Dibenzofuran	40.000	37.910	5.2	108	0.00
56	P	4-Nitrophenol	40.000	38.698	3.3	109	0.00
57		2,4-Dinitrotoluene	40.000	39.975	0.1	108	0.00
58		Fluorene	40.000	38.422	3.9	109	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.274	1.8	109	0.00
60		Diethylphthalate	40.000	38.171	4.6	110	0.00
61		4-Chlorophenyl-phenylether	40.000	38.249	4.4	111	0.00
62		4-Nitroaniline	40.000	42.722	-6.8	111	0.00
63		Azobenzene	40.000	38.822	2.9	110	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	109	0.00
65		4,6-Dinitro-2-methylphenol	40.000	40.305	-0.8	110	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.382	4.0	108	0.00
67		4-Bromophenyl-phenylether	40.000	38.909	2.7	111	0.00
68		Hexachlorobenzene	40.000	38.175	4.6	110	0.00
69		Atrazine	40.000	39.570	1.1	111	0.00
70	C	Pentachlorophenol	40.000	41.124	-2.8	109	0.00
71		Phenanthrene	40.000	37.546	6.1	108	0.00
72		Anthracene	40.000	38.241	4.4	108	0.00
73		Carbazole	40.000	39.575	1.1	109	0.00
74		Di-n-butylphthalate	40.000	38.939	2.7	109	0.00
75	C	Fluoranthene	40.000	38.566	3.6	109	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	107	0.00
77		Benzidine	40.000	43.253	-8.1	113	0.00
78		Pyrene	40.000	38.281	4.3	107	0.01
79	S	Terphenyl-d14	80.000	76.753	4.1	107	0.01
80		Butylbenzylphthalate	40.000	40.523	-1.3	110	0.02
81		Benzo(a)anthracene	40.000	38.889	2.8	108	0.00
82		3,3'-Dichlorobenzidine	40.000	42.508	-6.3	111	0.00
83		Chrysene	40.000	38.227	4.4	108	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	40.433	-1.1	111	0.00
85	c	Di-n-octyl phthalate	40.000	41.721	-4.3	112	0.00
86	I	Perylene-d12	20.000	20.000	0.0	109	0.01
87		Indeno(1,2,3-cd)pyrene	40.000	38.851	2.9	109	0.00
88		Benzo(b)fluoranthene	40.000	39.289	1.8	111	0.01
89		Benzo(k)fluoranthene	40.000	38.223	4.4	108	0.00
90	C	Benzo(a)pyrene	40.000	39.004	2.5	110	0.02
91		Dibenzo(a,h)anthracene	40.000	39.377	1.6	109	0.02
92		Benzo(g,h,i)perylene	40.000	38.906	2.7	109	0.02

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024622.D
Acq On : 13 May 2025 17:01
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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: NOBI03

Lab Code: CHEM Case No.: Q1984 SAS No.: Q1984 SDG No.: Q1984

Instrument ID: BNA_P Calibration Date/Time: 05/15/2025 12:25

Lab File ID: BP024634.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:41 15:26

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.169	1.113		-4.8	
Phenol-d6	1.492	1.373		-8.0	
Nitrobenzene-d5	0.396	0.378		-4.5	
Naphthalene	1.036	0.983		-5.1	
2-Methylnaphthalene	0.671	0.646		-3.7	
2-Fluorobiphenyl	1.527	1.446		-5.3	
Acenaphthylene	1.886	1.811		-4.0	
Acenaphthene	1.084	1.026		-5.4	20.0
Fluorene	1.410	1.356		-3.8	
2,4,6-Tribromophenol	0.339	0.334		-1.5	
Phenanthrene	1.112	1.049		-5.7	
Anthracene	1.119	1.053		-5.9	
Fluoranthene	1.300	1.234		-5.1	20.0
Pyrene	1.198	1.165		-2.8	
Terphenyl-d14	1.166	1.105		-5.2	
Benzo(a)anthracene	1.256	1.198		-4.6	
Chrysene	1.190	1.135		-4.6	
Benzo(b)fluoranthene	1.145	1.107		-3.3	
Benzo(k)fluoranthene	1.180	1.121		-5.0	
Benzo(a)pyrene	1.099	1.065		-3.1	20.0
Indeno(1,2,3-cd)pyrene	1.460	1.416		-3.0	
Dibenzo(a,h)anthracene	1.188	1.153		-2.9	
Benzo(g,h,i)perylene	1.181	1.148		-2.8	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024634.D
Acq On : 15 May 2025 12:25
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: May 15 13:40:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.658	152	130531	20.000	ng		0.00
21) Naphthalene-d8	10.428	136	590490	20.000	ng		0.00
39) Acenaphthene-d10	14.304	164	383835	20.000	ng		0.00
64) Phenanthrene-d10	17.092	188	784999	20.000	ng		0.00
76) Chrysene-d12	21.527	240	868702	20.000	ng		0.00
86) Perylene-d12	24.810	264	1013038	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.281	112	580986	76.128	ng		0.00
7) Phenol-d6	6.852	99	717060	73.619	ng		0.00
23) Nitrobenzene-d5	8.810	82	892817	76.396	ng		0.00
42) 2,4,6-Tribromophenol	15.822	330	513475	78.910	ng		0.01
45) 2-Fluorobiphenyl	12.910	172	2220308	75.785	ng		0.00
79) Terphenyl-d14	19.810	244	3838058	75.758	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.222	88	126825	35.390	ng		99
3) Pyridine	3.617	79	309533	38.953	ng		98
4) n-Nitrosodimethylamine	3.528	42	131408	37.459	ng		98
6) Aniline	6.999	93	472339	37.560	ng		98
8) 2-Chlorophenol	7.234	128	338313	39.050	ng		100
9) Benzaldehyde	6.816	77	222724	35.324	ng		99
10) Phenol	6.875	94	369494	36.754	ng		98
11) bis(2-Chloroethyl)ether	7.093	93	304974	36.919	ng		99
12) 1,3-Dichlorobenzene	7.546	146	371299	37.251	ng		99
13) 1,4-Dichlorobenzene	7.693	146	380641	37.969	ng		100
14) 1,2-Dichlorobenzene	8.005	146	372600	38.142	ng		99
15) Benzyl Alcohol	7.899	79	304110	41.086	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.175	45	378904	38.301	ng		99
17) 2-Methylphenol	8.105	107	290282	40.259	ng		99
18) Hexachloroethane	8.722	117	142958	37.212	ng		98
19) n-Nitroso-di-n-propyla...	8.457	70	275040	40.821	ng		98
20) 3+4-Methylphenols	8.428	107	403026	41.091	ng		99
22) Acetophenone	8.475	105	568570	38.547	ng	#	99
24) Nitrobenzene	8.852	77	391069	38.025	ng		98
25) Isophorone	9.369	82	781808	38.566	ng		100
26) 2-Nitrophenol	9.552	139	201188	39.922	ng		96
27) 2,4-Dimethylphenol	9.616	122	349423	39.326	ng		99
28) bis(2-Chloroethoxy)met...	9.846	93	459409	37.932	ng		100
29) 2,4-Dichlorophenol	10.093	162	344404	39.999	ng		98
30) 1,2,4-Trichlorobenzene	10.293	180	360510	37.155	ng		99
31) Naphthalene	10.475	128	1161179	37.947	ng		99
32) Benzoic acid	9.775	122	231732	39.103	ng		95
33) 4-Chloroaniline	10.593	127	501792	40.638	ng		99
34) Hexachlorobutadiene	10.757	225	232067	36.920	ng		96
35) Caprolactam	11.387	113	130047	41.746	ng		100
36) 4-Chloro-3-methylphenol	11.734	107	420092	40.008	ng		100
37) 2-Methylnaphthalene	12.093	142	763297	38.524	ng		100
38) 1-Methylnaphthalene	12.316	142	805636	38.002	ng		99
40) 1,2,4,5-Tetrachloroben...	12.463	216	427810	38.382	ng		100
41) Hexachlorocyclopentadiene	12.440	237	285304	42.213	ng		98
43) 2,4,6-Trichlorophenol	12.716	196	297629	41.226	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024634.D
Acq On : 15 May 2025 12:25
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: May 15 13:40:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

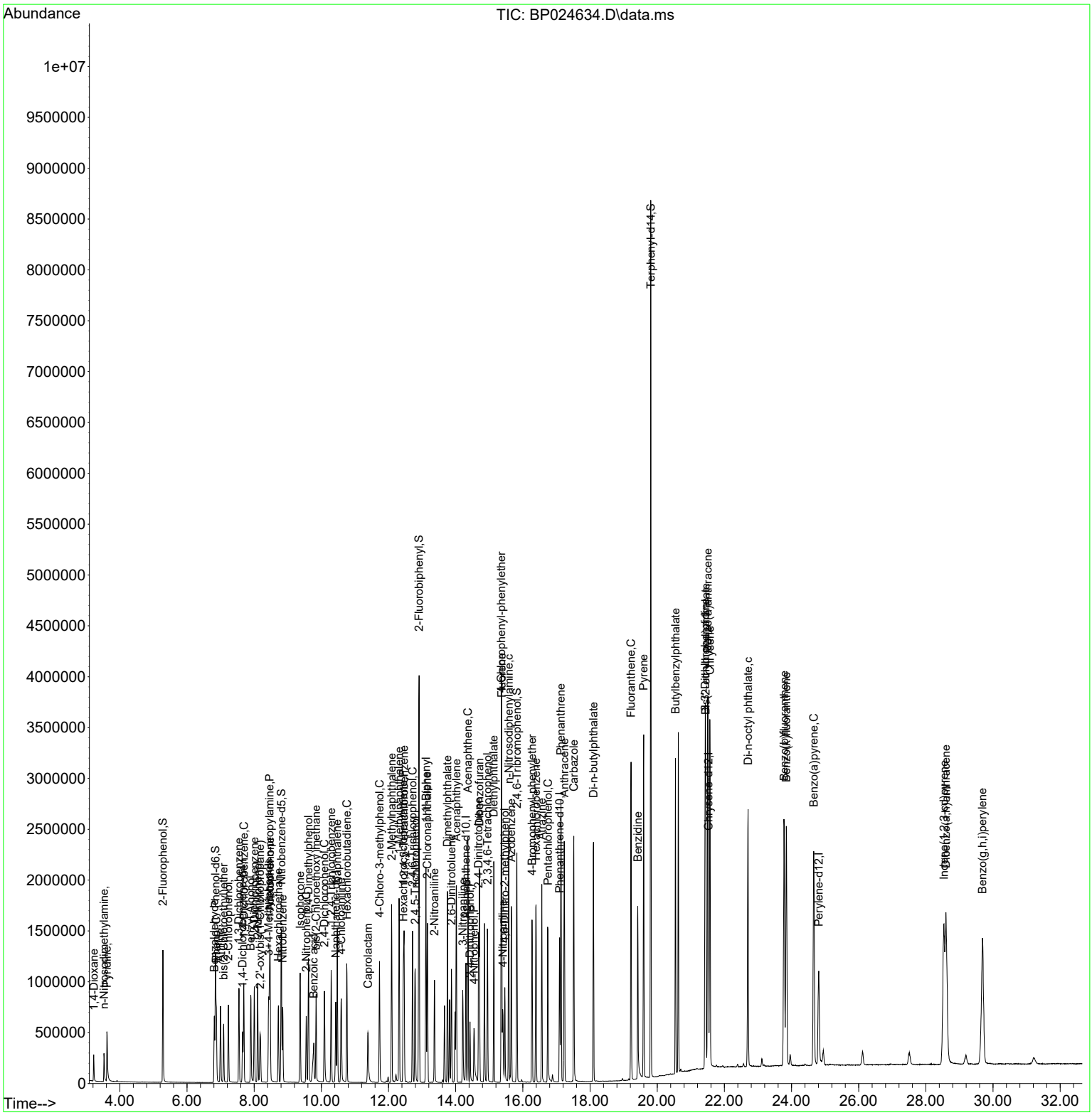
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	2,4,5-Trichlorophenol	12.793	196	315927	39.313	ng		97
46)	1,1'-Biphenyl	13.116	154	1068131	37.651	ng		100
47)	2-Chloronaphthalene	13.157	162	820417	37.928	ng		99
48)	2-Nitroaniline	13.369	65	258312	40.335	ng		98
49)	Acenaphthylene	14.022	152	1390232	38.405	ng		100
50)	Dimethylphthalate	13.757	163	1099800	37.592	ng		100
51)	2,6-Dinitrotoluene	13.875	165	240434	38.913	ng		98
52)	Acenaphthene	14.363	154	787414	37.838	ng		100
53)	3-Nitroaniline	14.210	138	258701	41.006	ng		100
54)	2,4-Dinitrophenol	14.428	184	130453	37.204	ng		99
55)	Dibenzofuran	14.710	168	1273526	38.367	ng		98
56)	4-Nitrophenol	14.545	139	199455	38.819	ng		98
57)	2,4-Dinitrotoluene	14.681	165	347771	39.924	ng		98
58)	Fluorene	15.369	166	1040858	38.456	ng		100
59)	2,3,4,6-Tetrachlorophenol	14.945	232	294291	39.477	ng		100
60)	Diethylphthalate	15.134	149	1133709	38.341	ng		99
61)	4-Chlorophenyl-phenyle...	15.357	204	515911	38.222	ng		99
62)	4-Nitroaniline	15.404	138	259097	42.533	ng		98
63)	Azobenzene	15.657	77	984323	38.912	ng		99
65)	4,6-Dinitro-2-methylph...	15.463	198	198484	39.144	ng		99
66)	n-Nitrosodiphenylamine	15.581	169	922739	38.269	ng		99
67)	4-Bromophenyl-phenylether	16.275	248	352534	38.112	ng		100
68)	Hexachlorobenzene	16.392	284	444096	37.783	ng		98
69)	Atrazine	16.563	200	338512	38.309	ng		99
70)	Pentachlorophenol	16.745	266	282553	42.824	ng		99
71)	Phenanthrene	17.134	178	1646955	37.740	ng		99
72)	Anthracene	17.233	178	1652621	37.640	ng		100
73)	Carbazole	17.516	167	1556303	39.163	ng		99
74)	Di-n-butylphthalate	18.104	149	1996950	39.073	ng		100
75)	Fluoranthene	19.222	202	1938125	37.994	ng		100
77)	Benzidine	19.422	184	1000272	42.277	ng		99
78)	Pyrene	19.598	202	2024361	38.892	ng		100
80)	Butylbenzylphthalate	20.545	149	923140	39.878	ng		96
81)	Benzo(a)anthracene	21.504	228	2081406	38.158	ng		99
82)	3,3'-Dichlorobenzidine	21.427	252	852276	42.067	ng		100
83)	Chrysene	21.569	228	1972026	38.138	ng		99
84)	Bis(2-ethylhexyl)phtha...	21.445	149	1357083	39.885	ng		100
85)	Di-n-octyl phthalate	22.704	149	2276070	40.907	ng		100
87)	Indeno(1,2,3-cd)pyrene	28.539	276	2869776	38.803	ng	#	91
88)	Benzo(b)fluoranthene	23.780	252	2243754	38.696	ng		98
89)	Benzo(k)fluoranthene	23.845	252	2270811	38.006	ng		100
90)	Benzo(a)pyrene	24.663	252	2156788	38.729	ng		99
91)	Dibenzo(a,h)anthracene	28.598	278	2335393	38.815	ng		98
92)	Benzo(g,h,i)perylene	29.686	276	2325227	38.862	ng		99

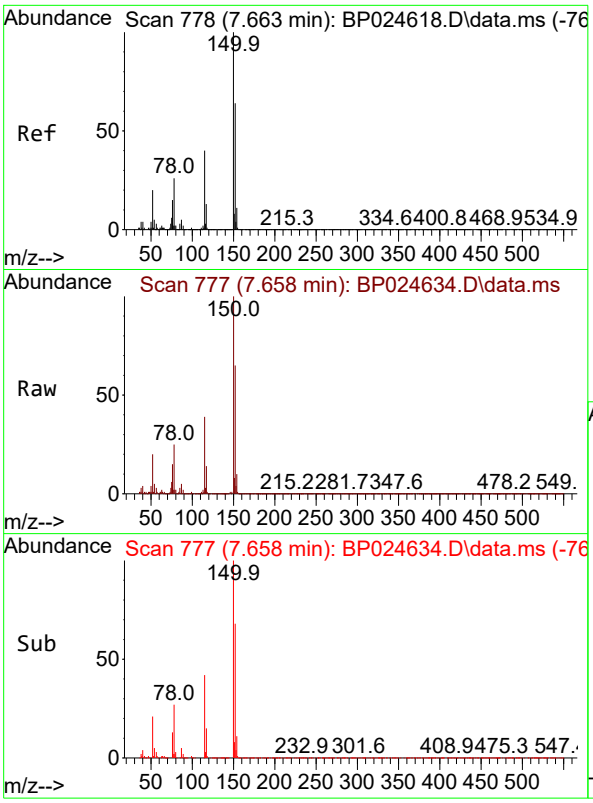
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024634.D
Acq On : 15 May 2025 12:25
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: May 15 13:40:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



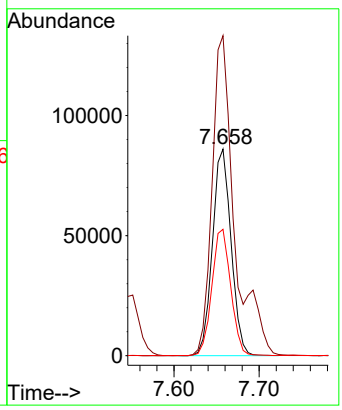


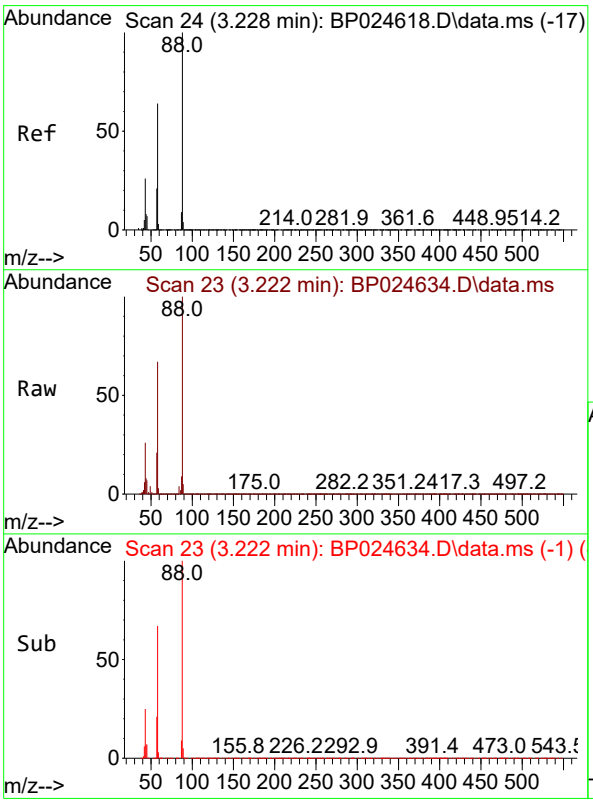
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.658 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 130531

Ion	Ratio	Lower	Upper
152	100		
150	154.9	125.9	188.9
115	61.2	50.1	75.1

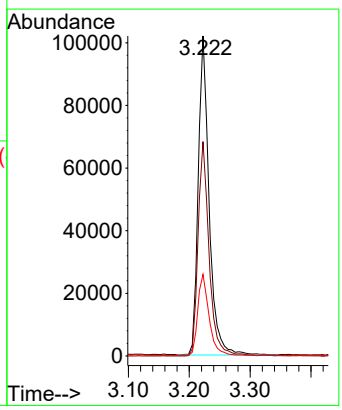


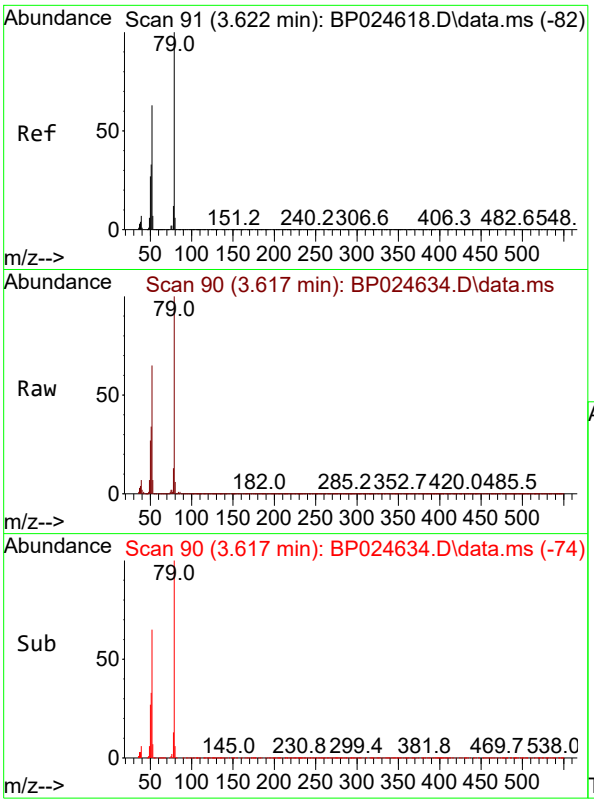


#2
1,4-Dioxane
Concen: 35.390 ng
RT: 3.222 min Scan# 23
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion: 88 Resp: 126825

Ion	Ratio	Lower	Upper
88	100		
58	68.1	54.0	81.0
43	26.4	21.4	32.0



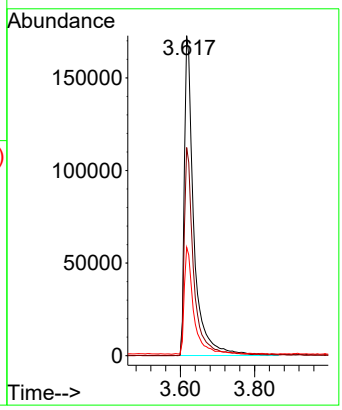


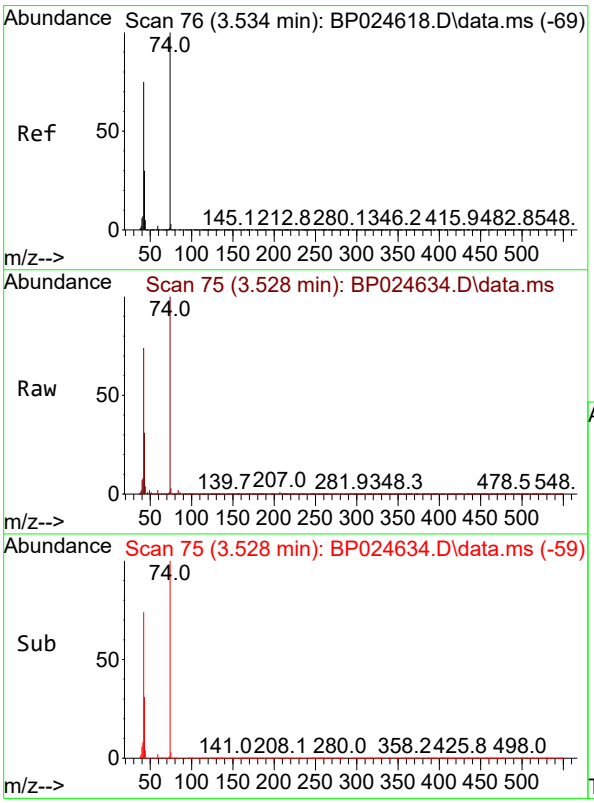
#3
Pyridine
Concen: 38.953 ng
RT: 3.617 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 309533

Ion	Ratio	Lower	Upper
79	100		
52	65.1	50.2	75.2
51	33.8	26.8	40.2

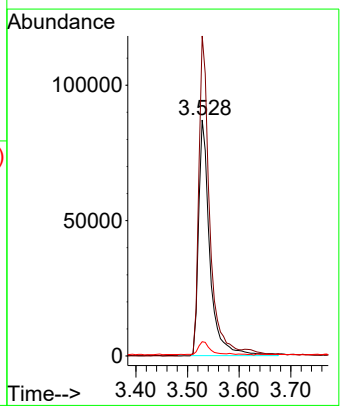


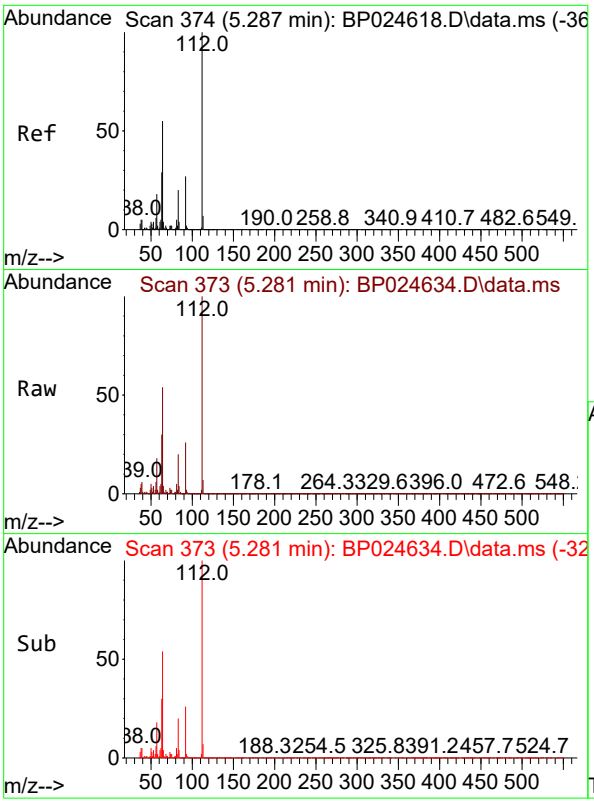


#4
n-Nitrosodimethylamine
Concen: 37.459 ng
RT: 3.528 min Scan# 75
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion: 42 Resp: 131408

Ion	Ratio	Lower	Upper
42	100		
74	135.6	106.2	159.2
44	6.0	5.4	8.2



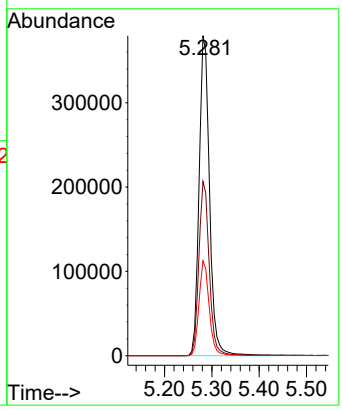


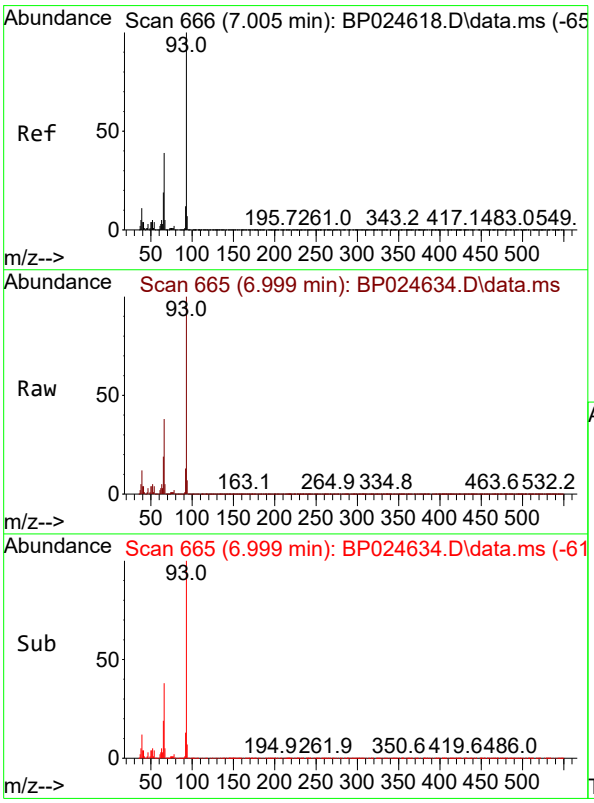
#5
2-Fluorophenol
Concen: 76.128 ng
RT: 5.281 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 580986

Ion	Ratio	Lower	Upper
112	100		
64	54.5	44.1	66.1
63	29.6	23.5	35.3

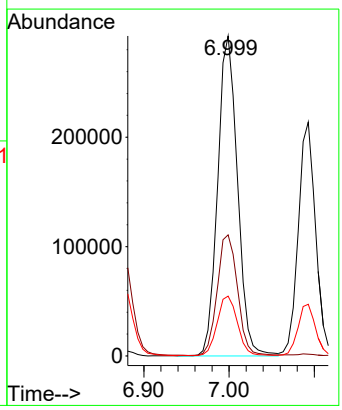


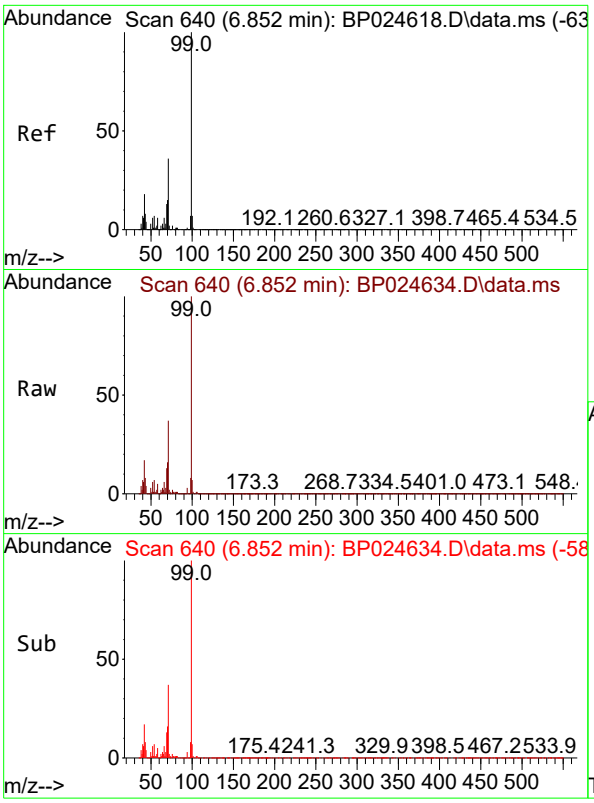


#6
Aniline
Concen: 37.560 ng
RT: 6.999 min Scan# 665
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion: 93 Resp: 472339

Ion	Ratio	Lower	Upper
93	100		
66	37.9	31.0	46.6
65	18.7	15.5	23.3



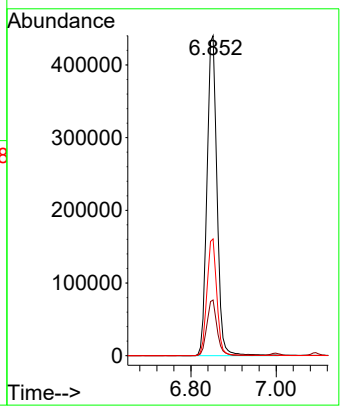


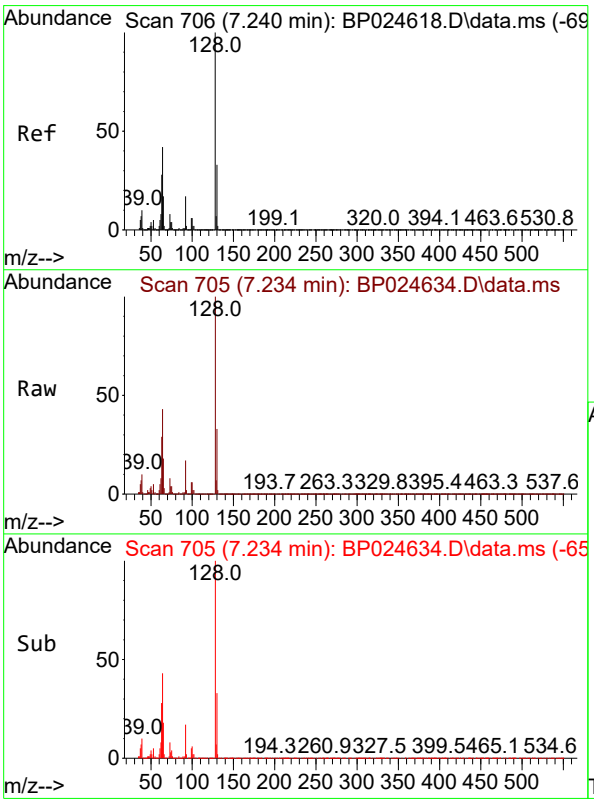
#7
Phenol-d6
Concen: 73.619 ng
RT: 6.852 min Scan# 64
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 717060

Ion	Ratio	Lower	Upper
99	100		
42	17.4	14.4	21.6
71	36.5	29.2	43.8

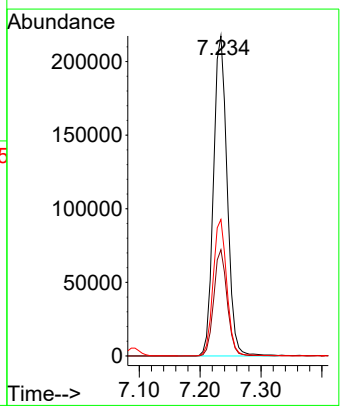


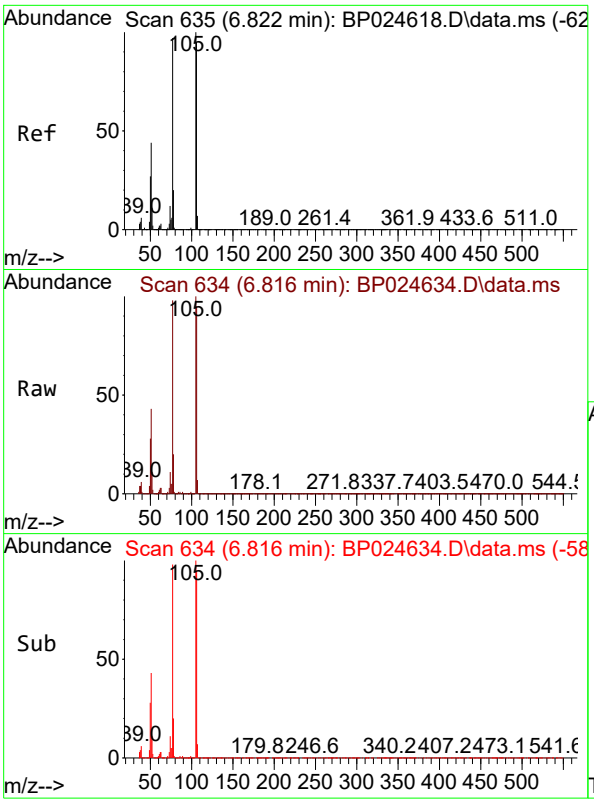


#8
2-Chlorophenol
Concen: 39.050 ng
RT: 7.234 min Scan# 705
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:128 Resp: 338313

Ion	Ratio	Lower	Upper
128	100		
130	33.2	13.0	53.0
64	42.7	22.3	62.3



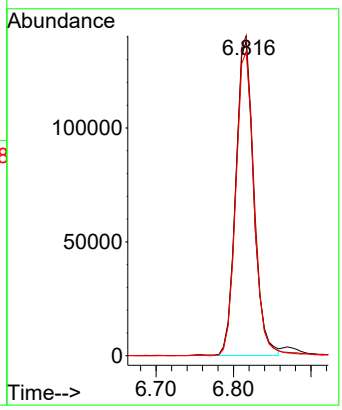


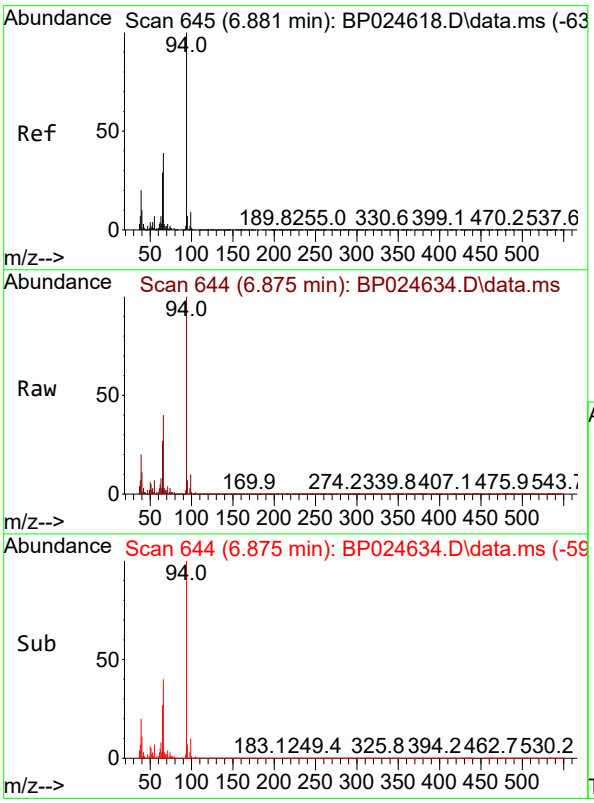
#9
Benzaldehyde
Concen: 35.324 ng
RT: 6.816 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 222724

Ion	Ratio	Lower	Upper
77	100		
105	101.8	83.3	123.3
106	96.7	78.0	118.0

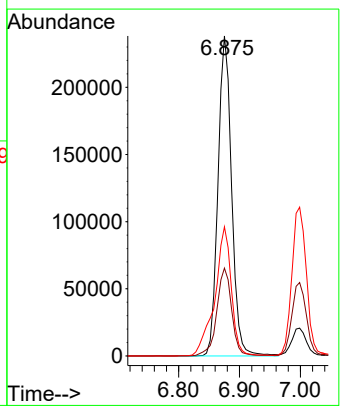


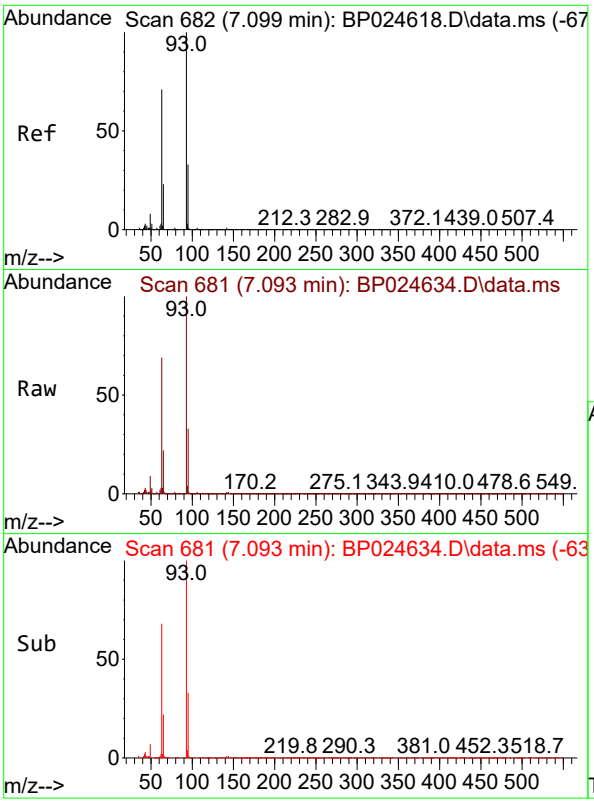


#10
Phenol
Concen: 36.754 ng
RT: 6.875 min Scan# 644
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion: 94 Resp: 369494

Ion	Ratio	Lower	Upper
94	100		
65	27.5	8.7	48.7
66	40.3	19.4	59.4



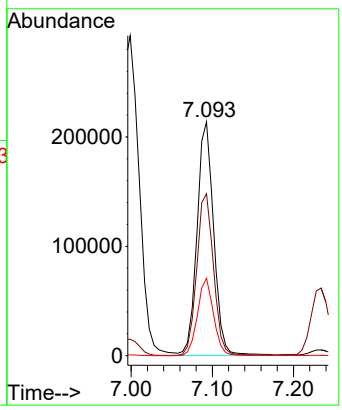


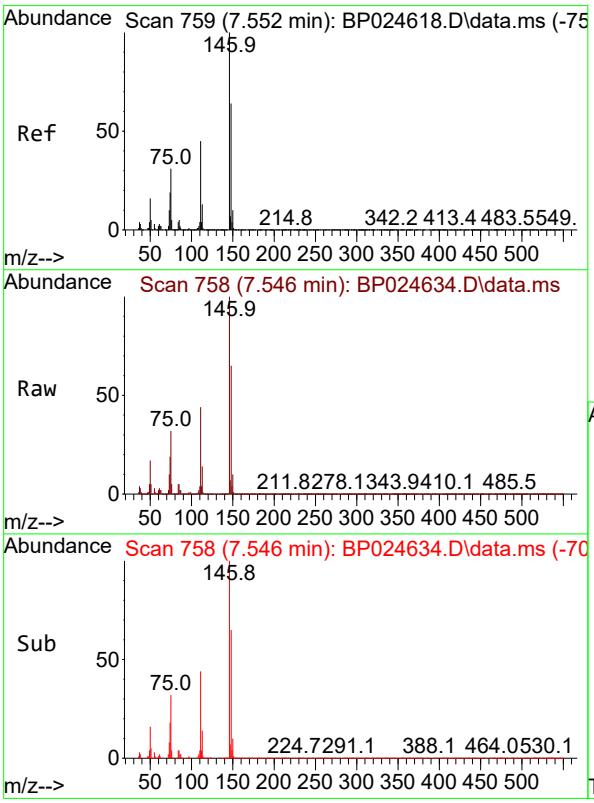
#11
bis(2-Chloroethyl)ether
Concen: 36.919 ng
RT: 7.093 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 304974

Ion	Ratio	Lower	Upper
93	100		
63	69.2	50.6	90.6
95	33.1	12.9	52.9

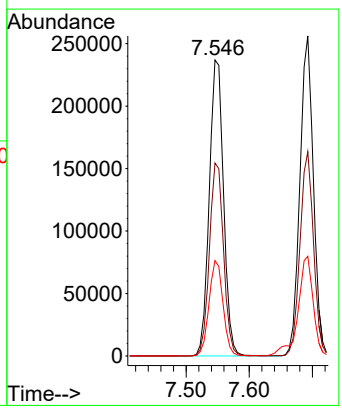


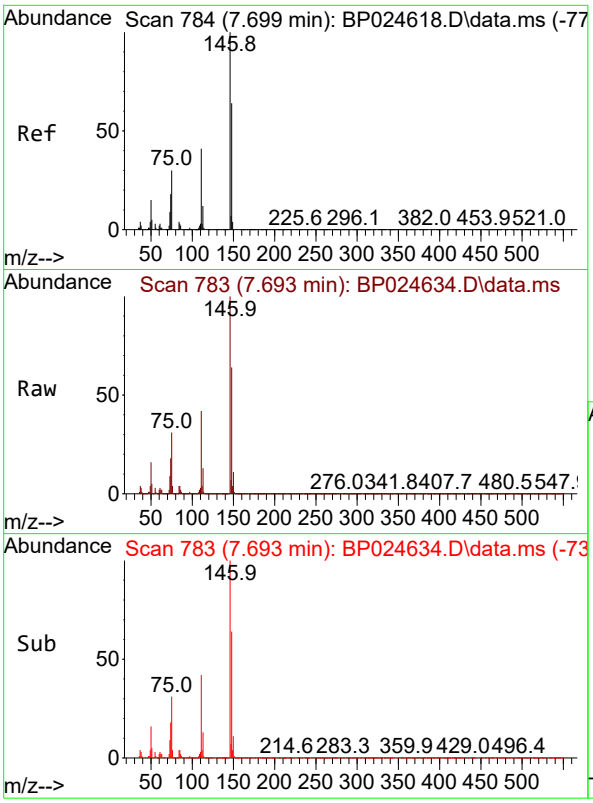


#12
1,3-Dichlorobenzene
Concen: 37.251 ng
RT: 7.546 min Scan# 758
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:146 Resp: 371299

Ion	Ratio	Lower	Upper
146	100		
148	65.2	51.4	77.2
75	32.2	25.2	37.8



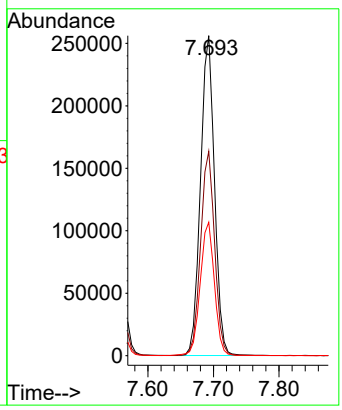


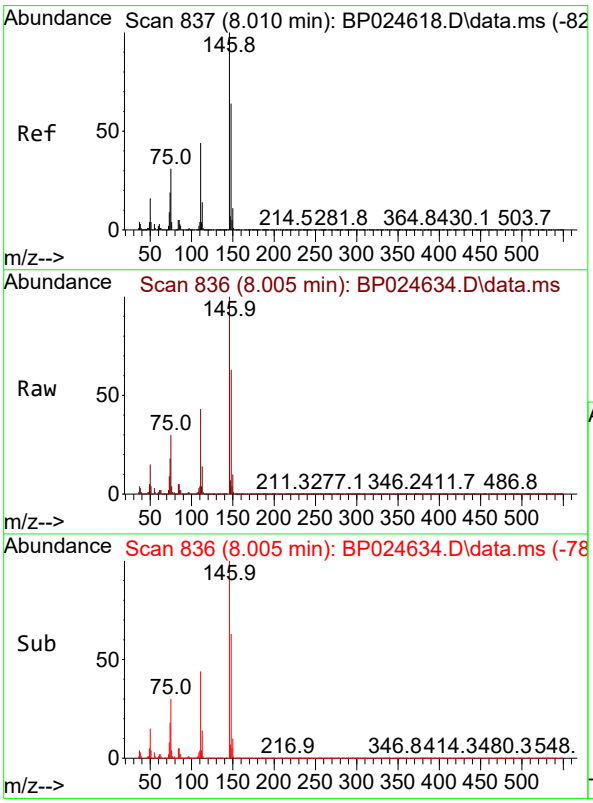
#13
1,4-Dichlorobenzene
Concen: 37.969 ng
RT: 7.693 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 380641

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.0	76.6
111	41.7	33.0	49.6

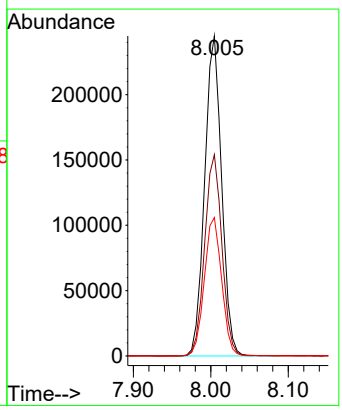


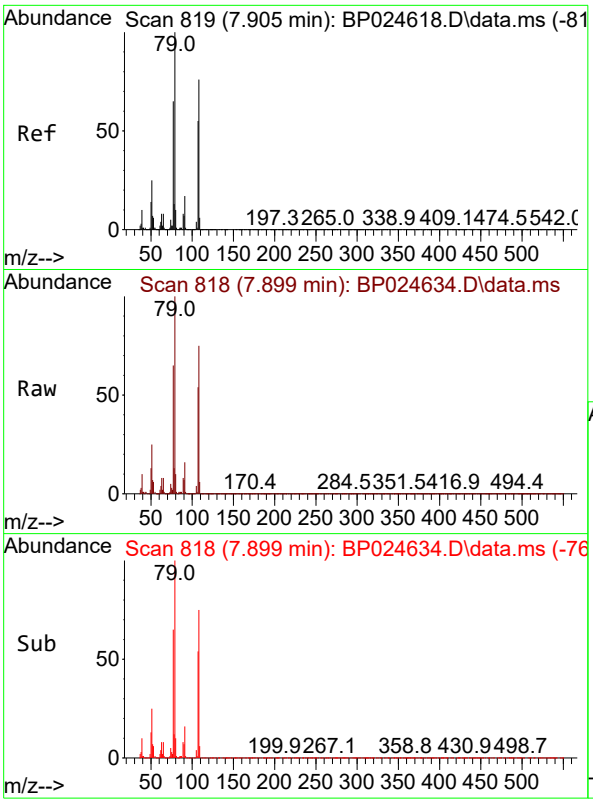


#14
1,2-Dichlorobenzene
Concen: 38.142 ng
RT: 8.005 min Scan# 836
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:146 Resp: 372600

Ion	Ratio	Lower	Upper
146	100		
148	62.9	51.0	76.4
111	43.2	35.2	52.8



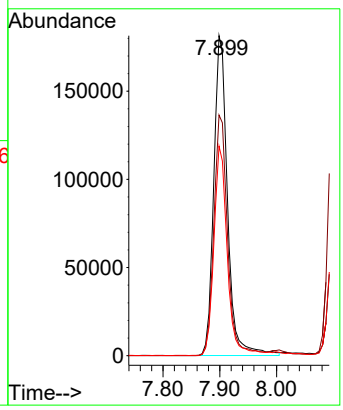


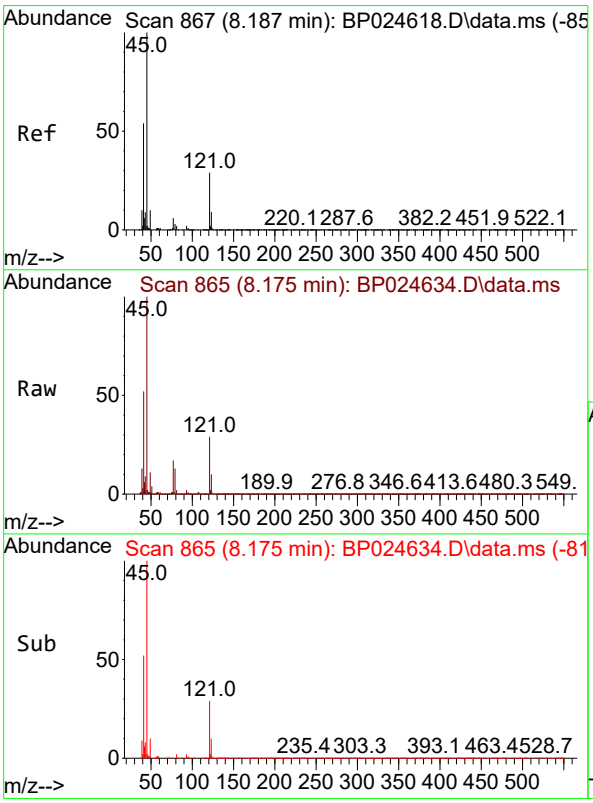
#15
Benzyl Alcohol
Concen: 41.086 ng
RT: 7.899 min Scan# 81
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 304110

Ion	Ratio	Lower	Upper
79	100		
108	75.2	60.8	91.2
77	65.5	51.9	77.9

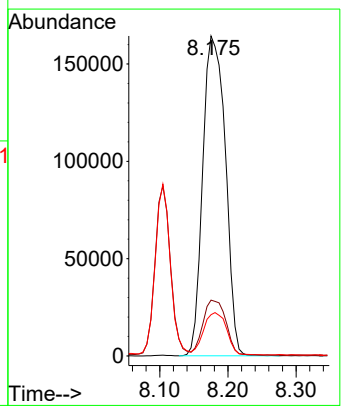


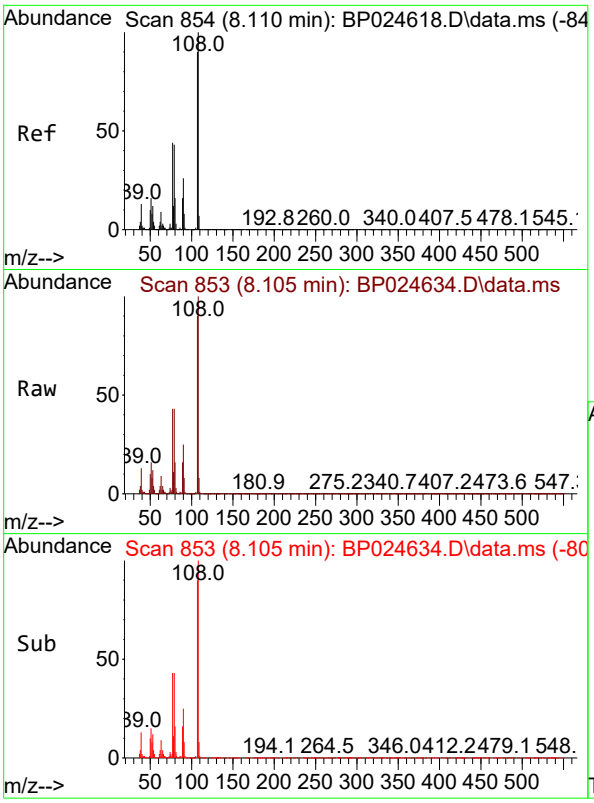


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.301 ng
RT: 8.175 min Scan# 865
Delta R.T. -0.012 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion: 45 Resp: 378904

Ion	Ratio	Lower	Upper
45	100		
77	17.5	0.0	37.7
79	12.9	0.0	34.0



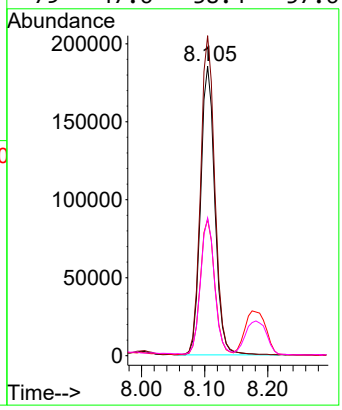


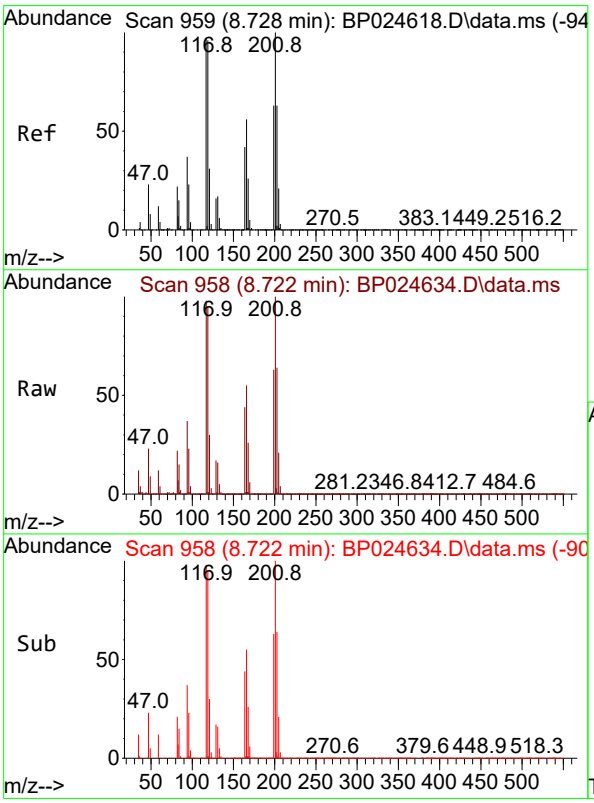
#17
2-Methylphenol
Concen: 40.259 ng
RT: 8.105 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 290282

Ion	Ratio	Lower	Upper
107	100		
108	110.6	88.9	133.3
77	47.1	39.0	58.6
79	47.6	38.4	57.6

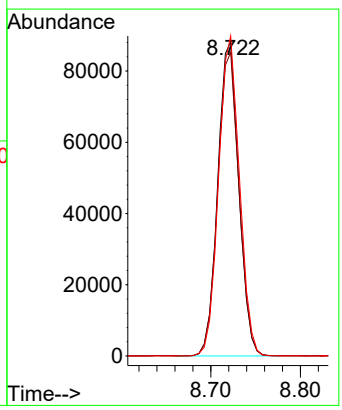


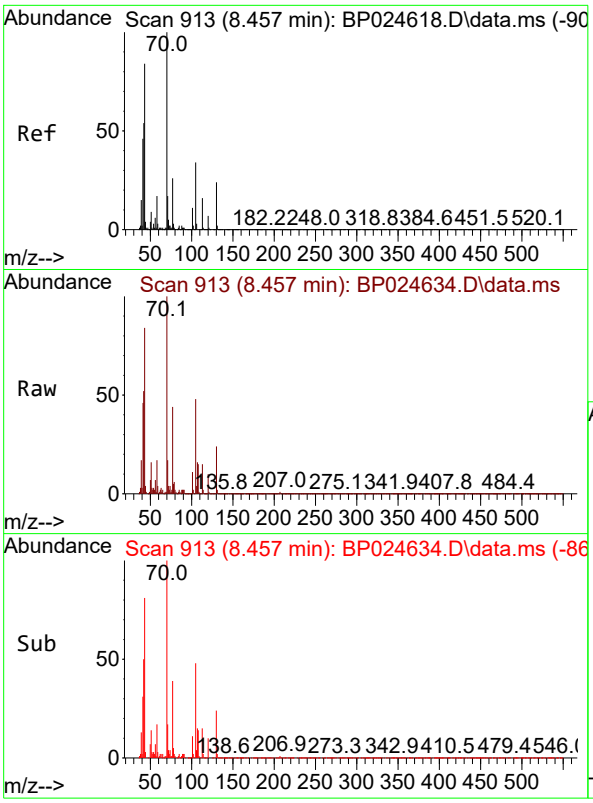


#18
Hexachloroethane
Concen: 37.212 ng
RT: 8.722 min Scan# 958
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:117 Resp: 142958

Ion	Ratio	Lower	Upper
117	100		
119	96.7	79.4	119.0
201	101.8	82.7	124.1



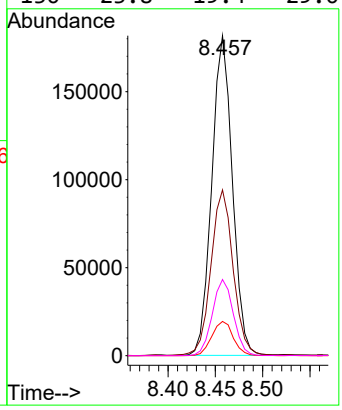


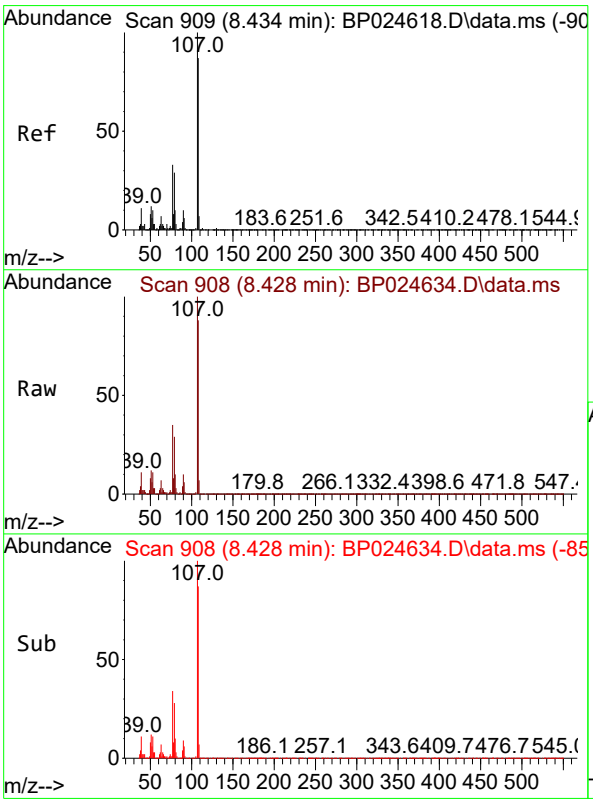
#19
n-Nitroso-di-n-propylamine
Concen: 40.821 ng
RT: 8.457 min Scan# 91
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 275040

Ion	Ratio	Lower	Upper
70	100		
42	51.8	43.0	64.6
101	10.7	8.7	13.1
130	23.8	19.4	29.0

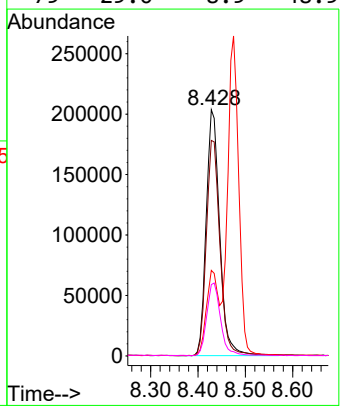


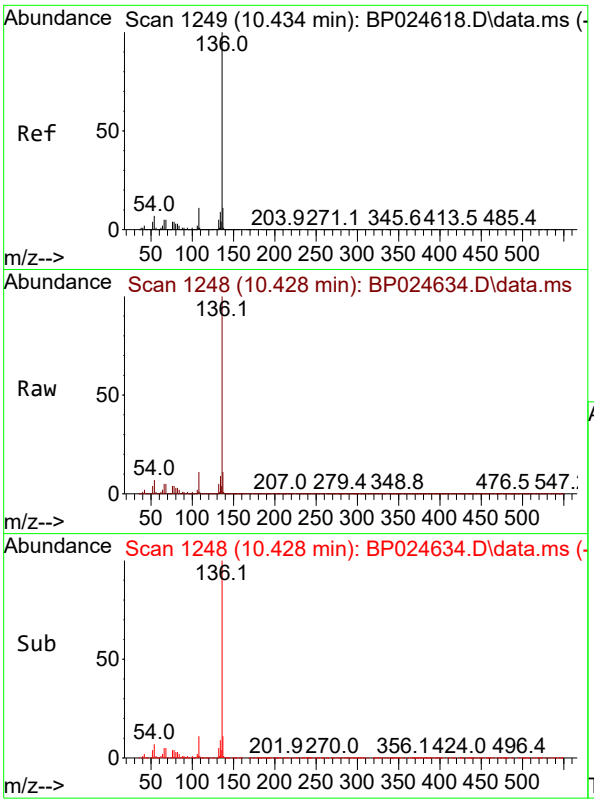


#20
3+4-Methylphenols
Concen: 41.091 ng
RT: 8.428 min Scan# 908
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:107 Resp: 403026

Ion	Ratio	Lower	Upper
107	100		
108	87.6	66.7	106.7
77	34.7	13.1	53.1
79	29.0	8.9	48.9



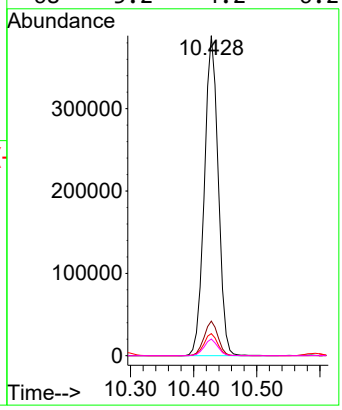


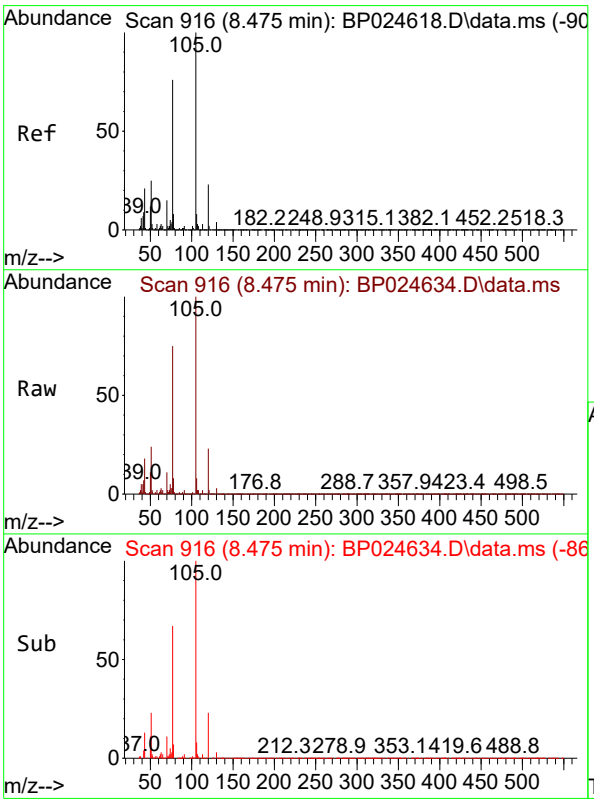
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 590490

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	6.9	5.5	8.3
68	5.2	4.2	6.2

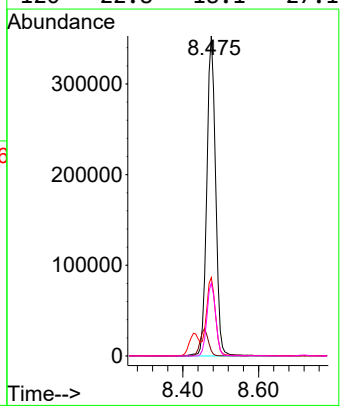


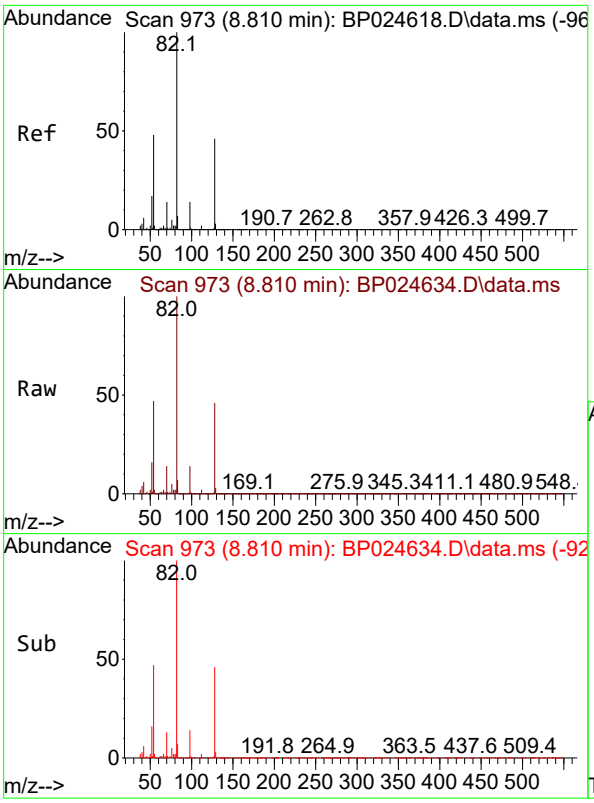


#22
Acetophenone
Concen: 38.547 ng
RT: 8.475 min Scan# 916
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:105 Resp: 568570

Ion	Ratio	Lower	Upper
105	100		
71	1.6	2.0	3.0#
51	24.5	20.4	30.6
120	22.8	18.1	27.1



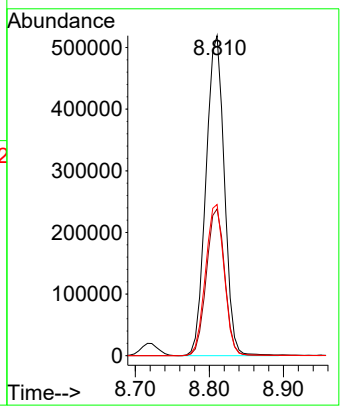


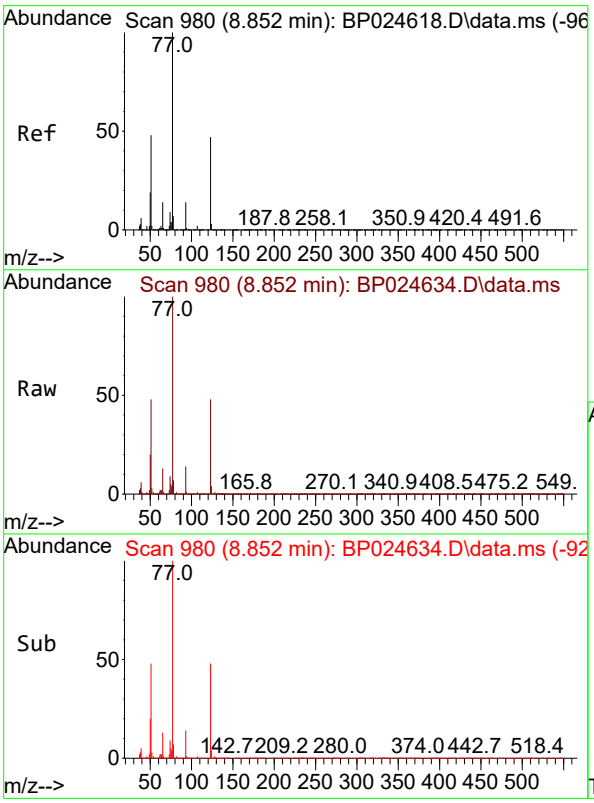
#23
Nitrobenzene-d5
Concen: 76.396 ng
RT: 8.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 892817

Ion	Ratio	Lower	Upper
82	100		
128	45.9	37.0	55.4
54	47.3	38.7	58.1

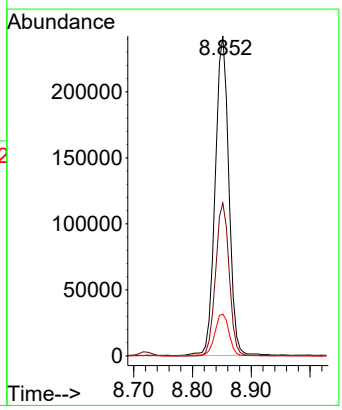


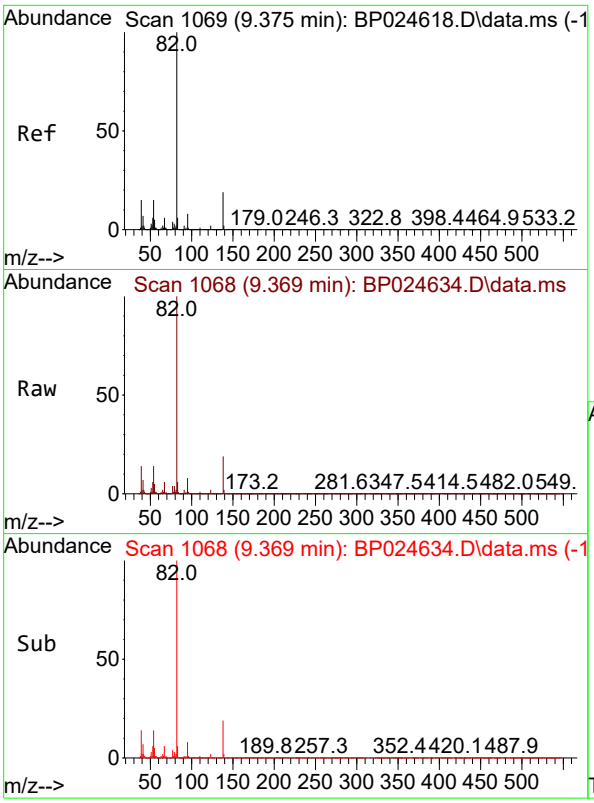


#24
Nitrobenzene
Concen: 38.025 ng
RT: 8.852 min Scan# 980
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion: 77 Resp: 391069

Ion	Ratio	Lower	Upper
77	100		
123	47.8	37.4	56.0
65	13.1	11.3	16.9



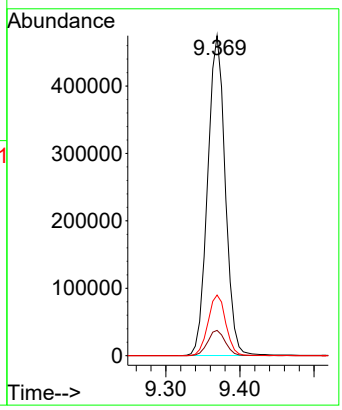


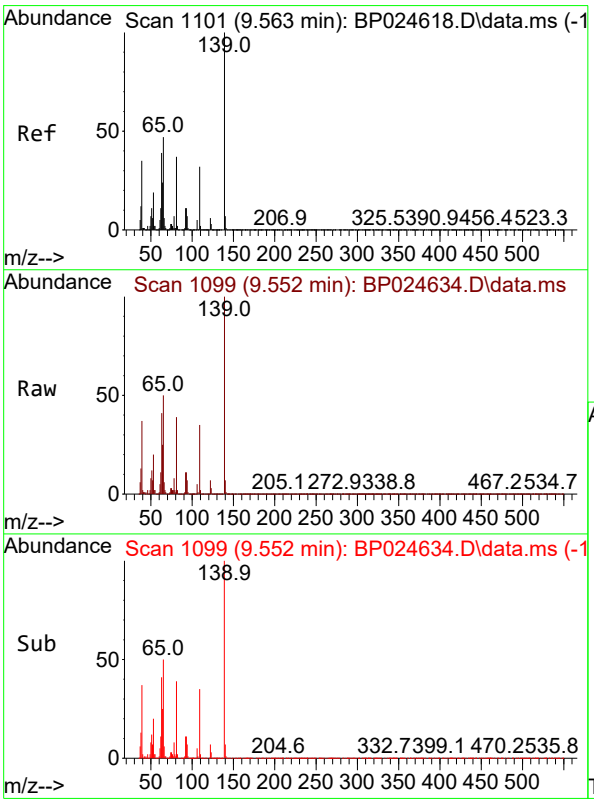
#25
Isophorone
Concen: 38.566 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 781808

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.3	9.5
138	18.9	15.3	22.9

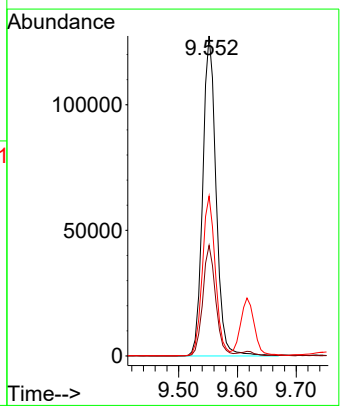


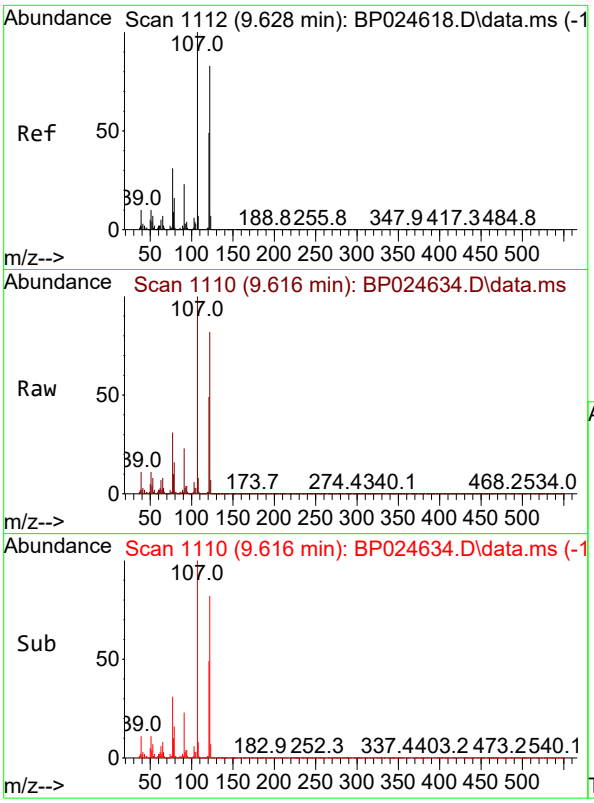


#26
2-Nitrophenol
Concen: 39.922 ng
RT: 9.552 min Scan# 1099
Delta R.T. -0.012 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:139 Resp: 201188

Ion	Ratio	Lower	Upper
139	100		
109	34.6	25.9	38.9
65	50.0	37.9	56.9



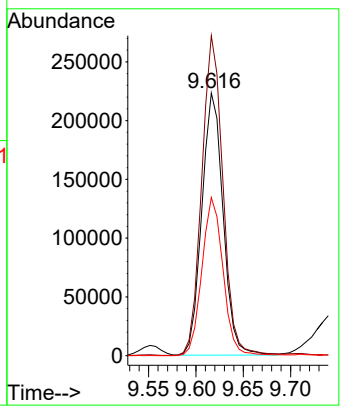


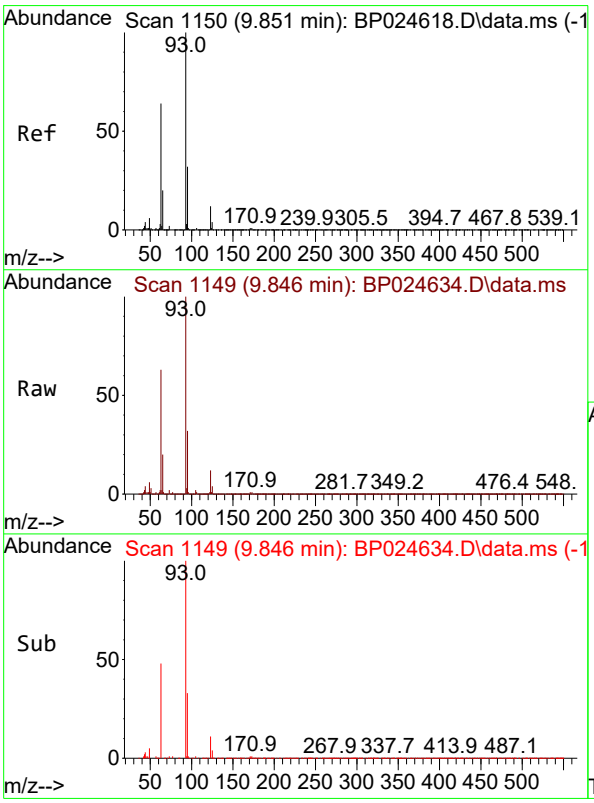
#27
2,4-Dimethylphenol
Concen: 39.326 ng
RT: 9.616 min Scan# 11
Delta R.T. -0.012 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 349423

Ion	Ratio	Lower	Upper
122	100		
107	121.8	96.2	144.2
121	60.2	47.6	71.4

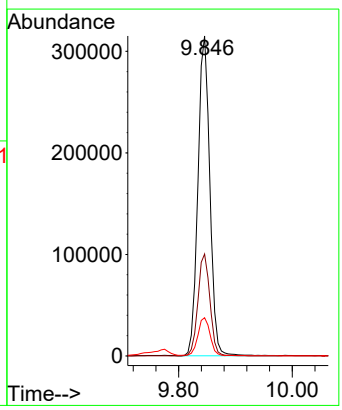


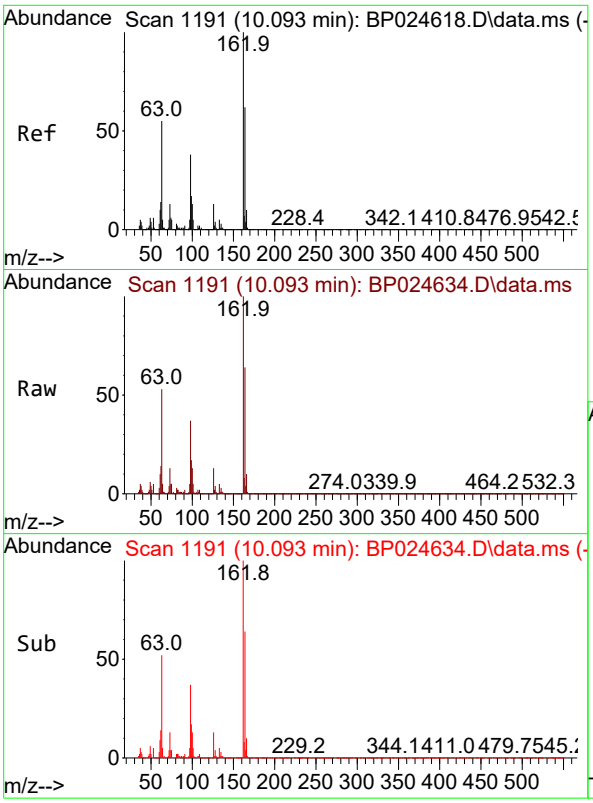


#28
bis(2-Chloroethoxy)methane
Concen: 37.932 ng
RT: 9.846 min Scan# 1149
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion: 93 Resp: 459409

Ion	Ratio	Lower	Upper
93	100		
95	31.9	25.5	38.3
123	12.0	9.7	14.5



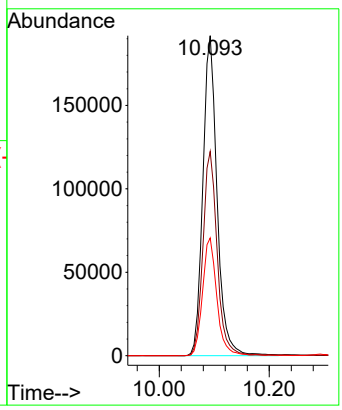


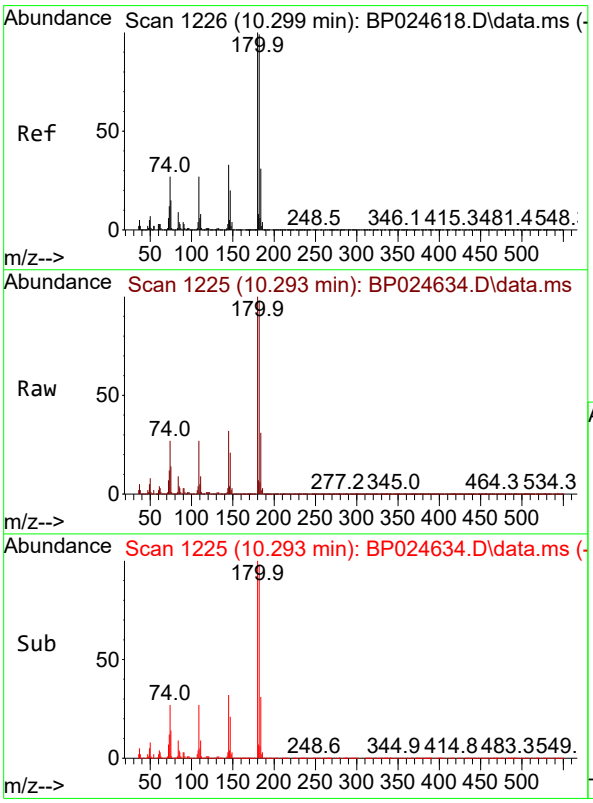
#29
2,4-Dichlorophenol
Concen: 39.999 ng
RT: 10.093 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 344404

Ion	Ratio	Lower	Upper
162	100		
164	63.8	42.3	82.3
98	36.8	18.4	58.4

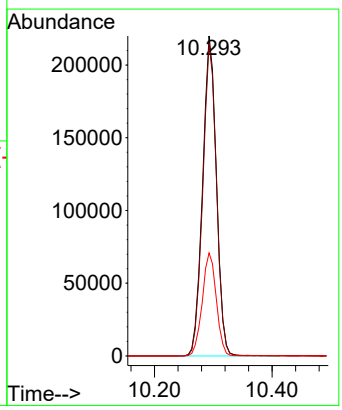


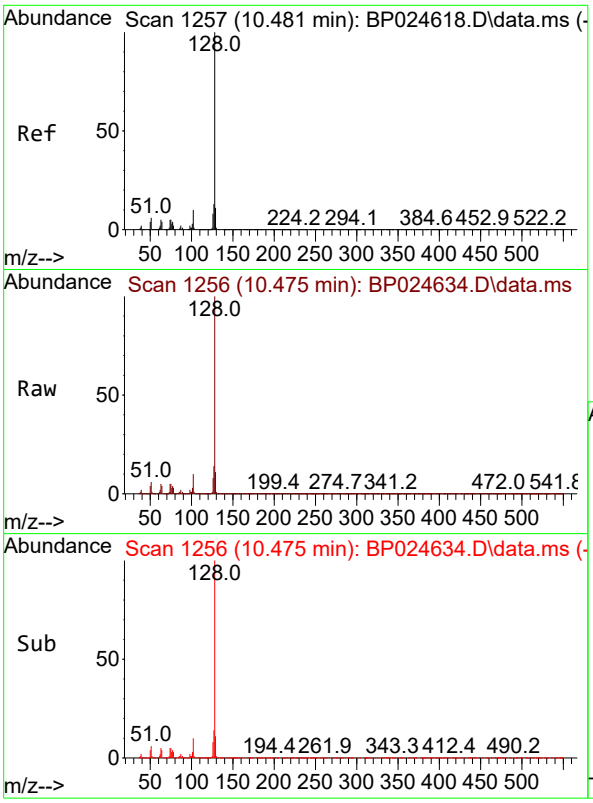


#30
1,2,4-Trichlorobenzene
Concen: 37.155 ng
RT: 10.293 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:180 Resp: 360510

Ion	Ratio	Lower	Upper
180	100		
182	97.6	79.0	118.4
145	32.2	26.6	39.8



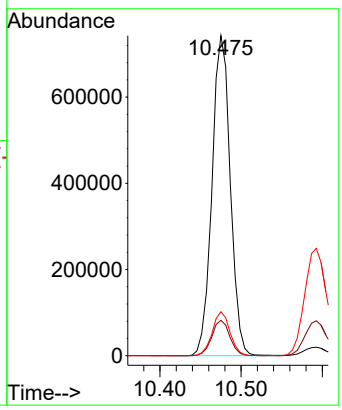


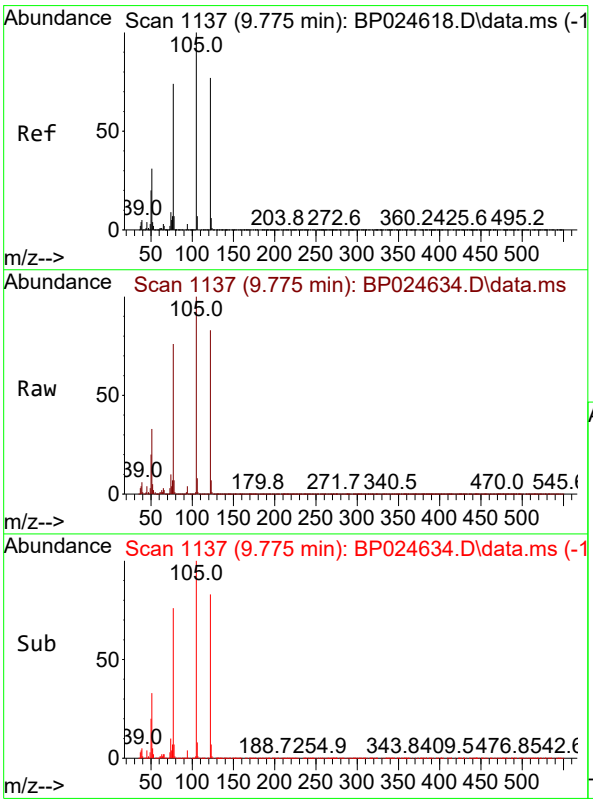
#31
Naphthalene
Concen: 37.947 ng
RT: 10.475 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 1161179

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.7	10.7	16.1

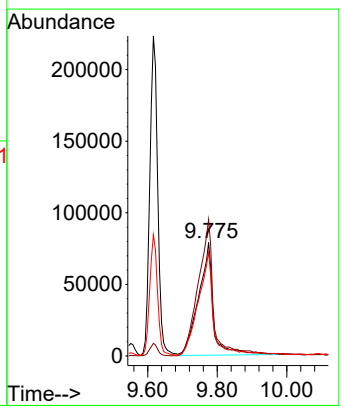


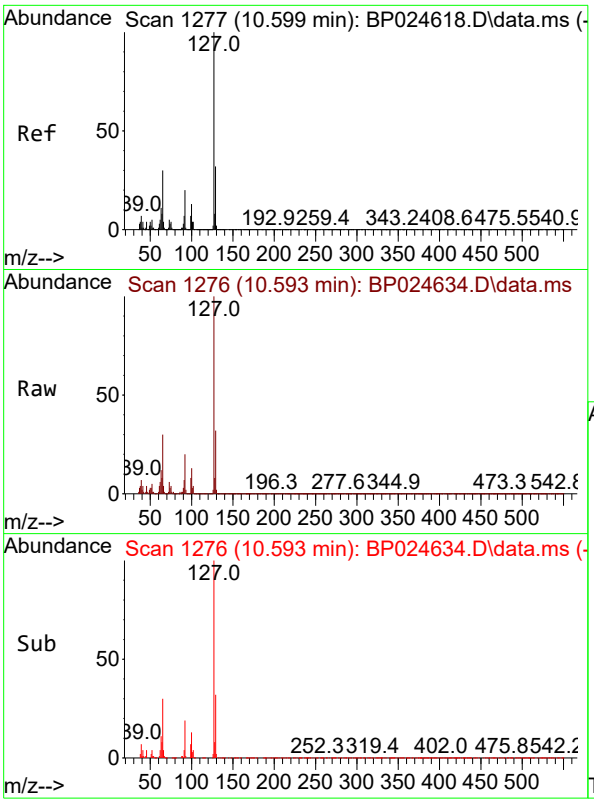


#32
Benzoic acid
Concen: 39.103 ng
RT: 9.775 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:122 Resp: 231732

Ion	Ratio	Lower	Upper
122	100		
105	120.3	106.9	146.9
77	91.7	75.1	115.1



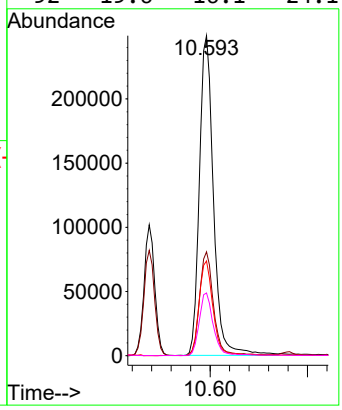


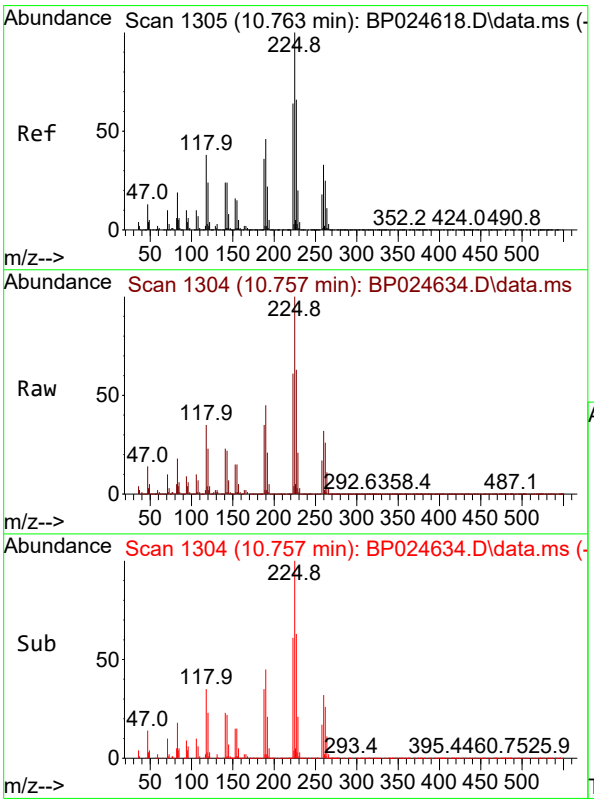
#33
4-Chloroaniline
Concen: 40.638 ng
RT: 10.593 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 501792

Ion	Ratio	Lower	Upper
127	100		
129	32.5	25.8	38.6
65	29.6	23.9	35.9
92	19.6	16.1	24.1

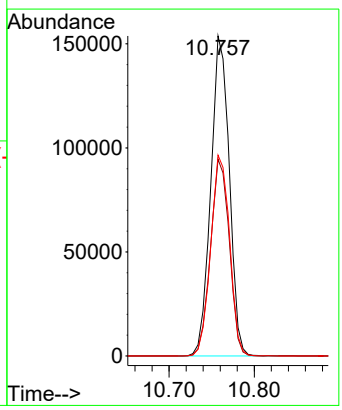


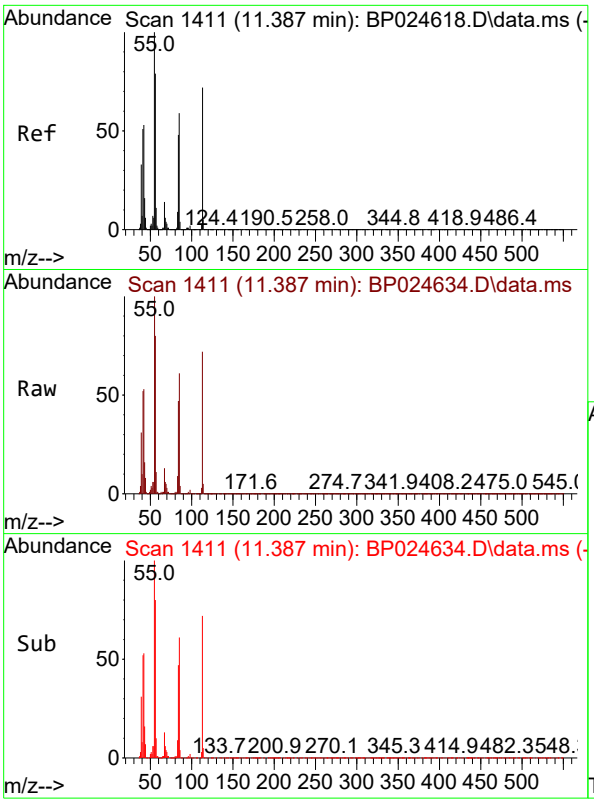


#34
Hexachlorobutadiene
Concen: 36.920 ng
RT: 10.757 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:225 Resp: 232067

Ion	Ratio	Lower	Upper
225	100		
223	61.4	51.0	76.6
227	62.8	53.1	79.7



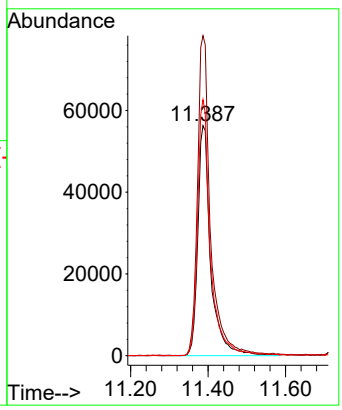


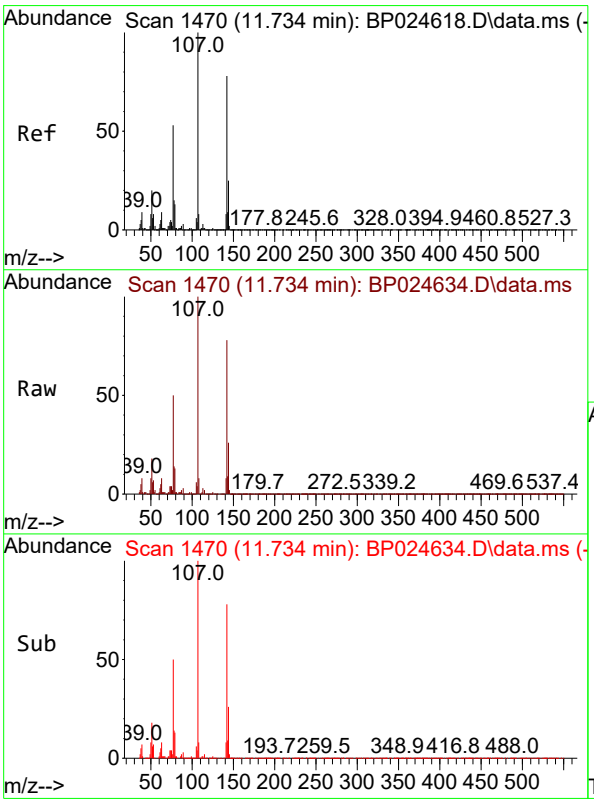
#35
Caprolactam
Concen: 41.746 ng
RT: 11.387 min Scan# 14
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 130047

Ion	Ratio	Lower	Upper
113	100		
55	139.0	119.0	159.0
56	111.2	90.3	130.3

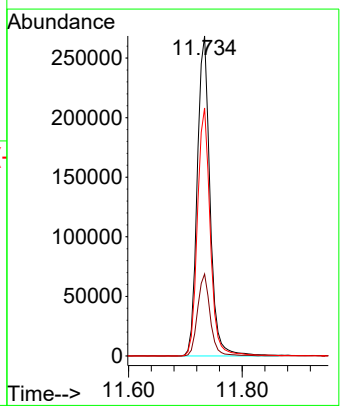


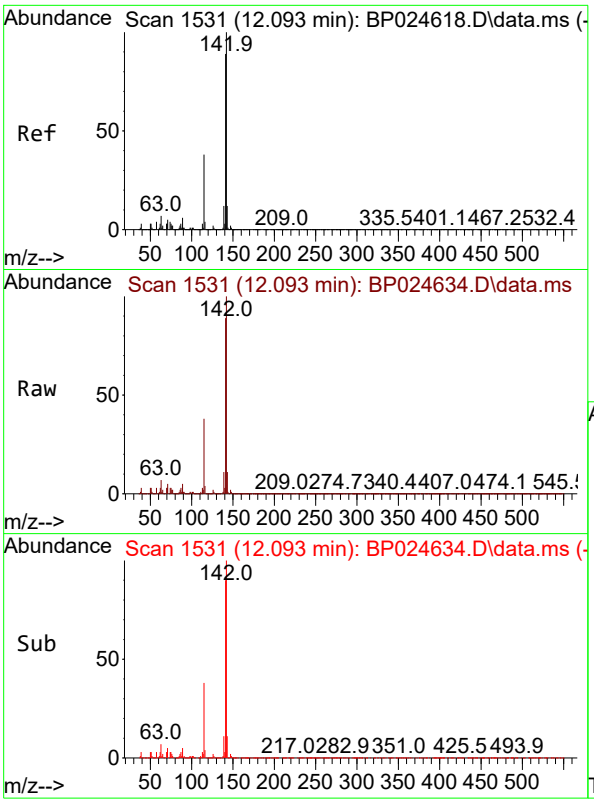


#36
4-Chloro-3-methylphenol
Concen: 40.008 ng
RT: 11.734 min Scan# 1470
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:107 Resp: 420092

Ion	Ratio	Lower	Upper
107	100		
144	25.6	20.1	30.1
142	77.5	62.1	93.1



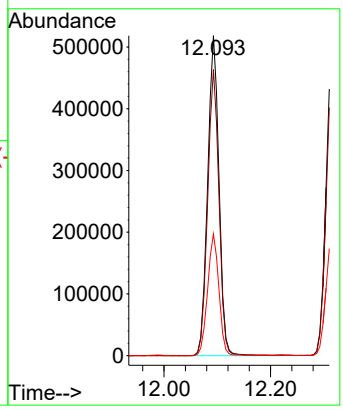


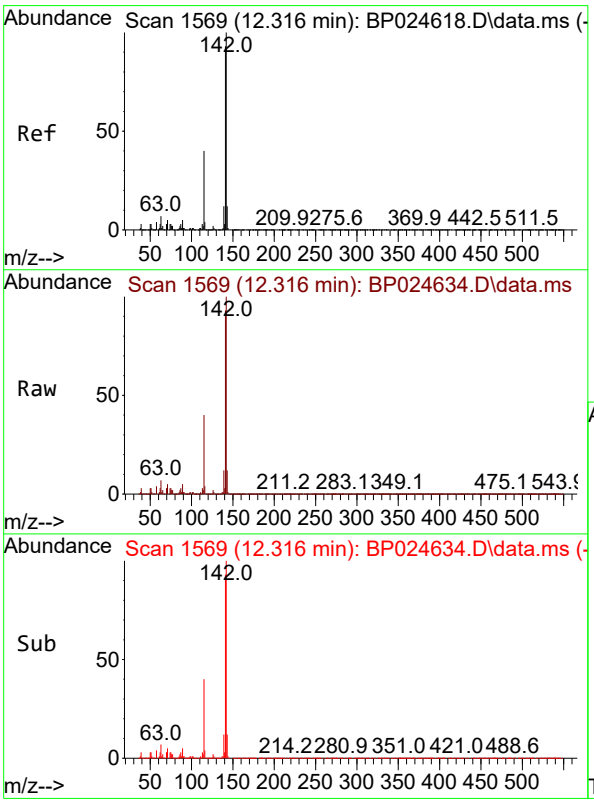
#37
2-Methylnaphthalene
Concen: 38.524 ng
RT: 12.093 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 763297

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.2	106.8
115	38.0	30.6	46.0

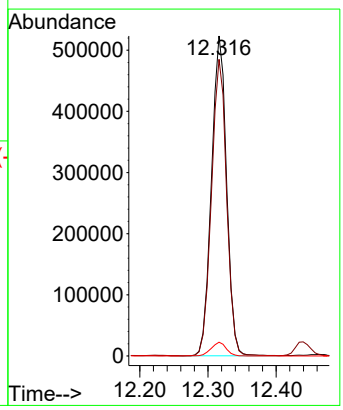


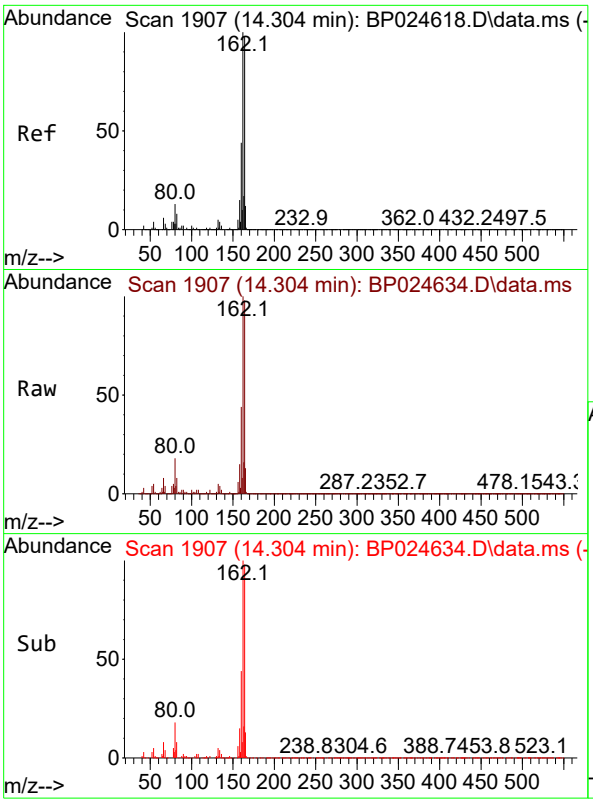


#38
1-Methylnaphthalene
Concen: 38.002 ng
RT: 12.316 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:142 Resp: 805636

Ion	Ratio	Lower	Upper
142	100		
141	92.7	74.7	112.1
116	4.3	3.4	5.2



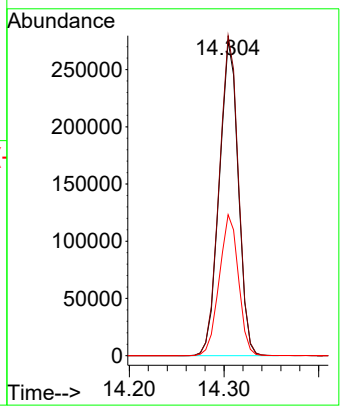


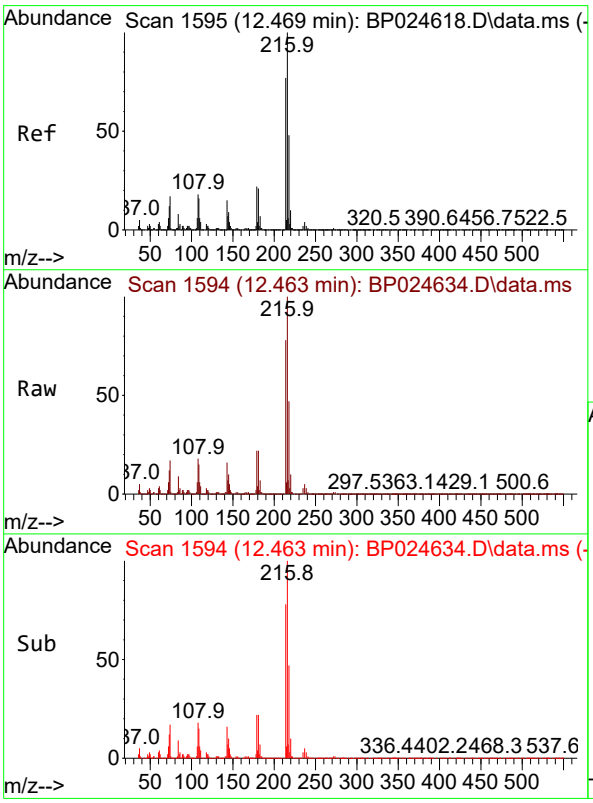
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 383835

Ion	Ratio	Lower	Upper
164	100		
162	101.7	81.8	122.6
160	44.8	36.3	54.5

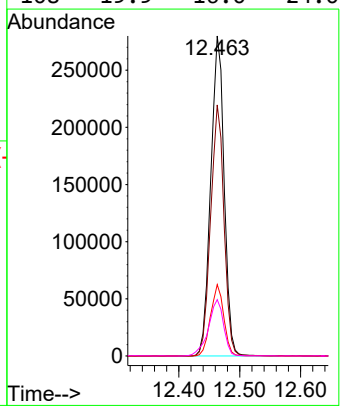


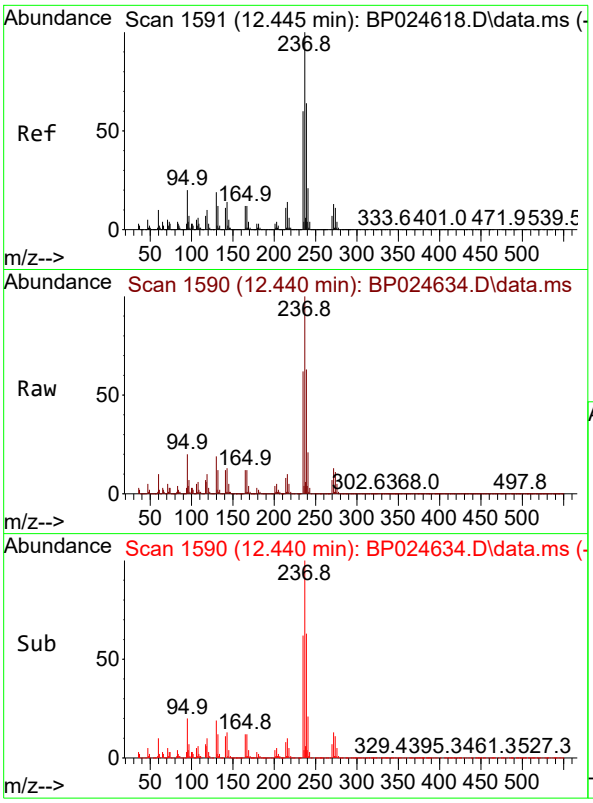


#40
1,2,4,5-Tetrachlorobenzene
Concen: 38.382 ng
RT: 12.463 min Scan# 1594
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:216 Resp: 427810

Ion	Ratio	Lower	Upper
216	100		
214	78.2	62.3	93.5
179	22.1	17.7	26.5
108	19.9	16.0	24.0



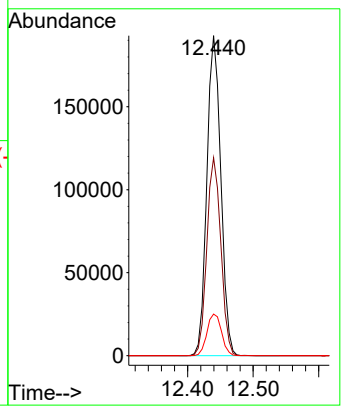


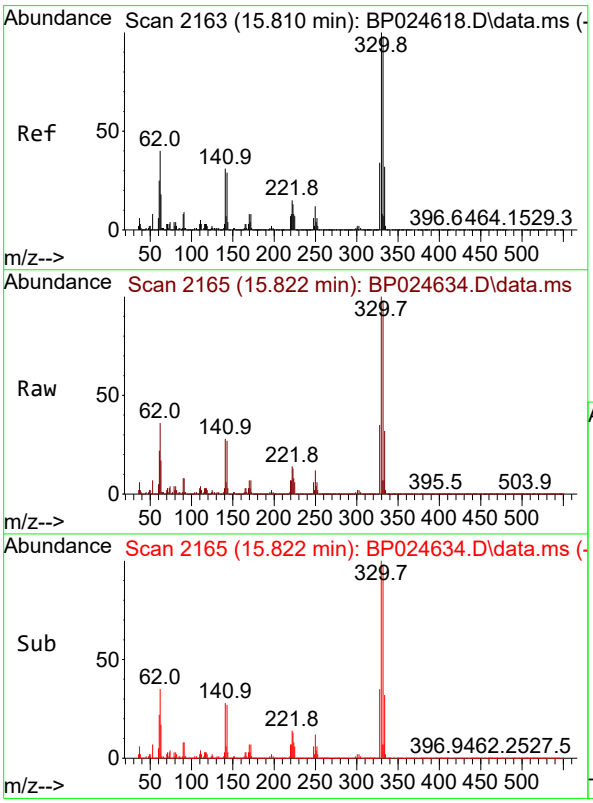
#41
Hexachlorocyclopentadiene
Concen: 42.213 ng
RT: 12.440 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 285304

Ion	Ratio	Lower	Upper
237	100		
235	61.8	39.9	79.9
272	13.0	0.0	33.2

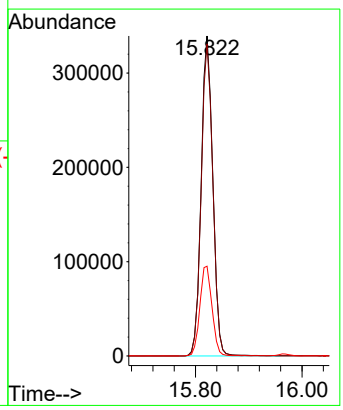


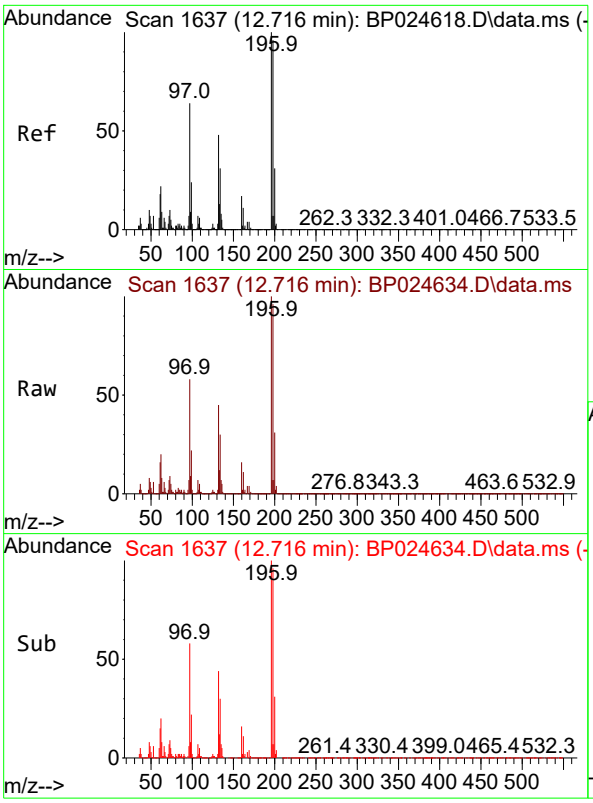


#42
2,4,6-Tribromophenol
Concen: 78.910 ng
RT: 15.822 min Scan# 2165
Delta R.T. 0.012 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:330 Resp: 513475

Ion	Ratio	Lower	Upper
330	100		
332	97.5	78.2	117.4
141	29.3	24.3	36.5



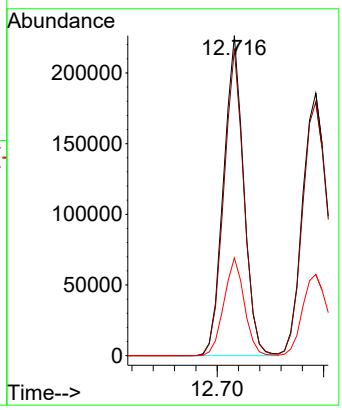


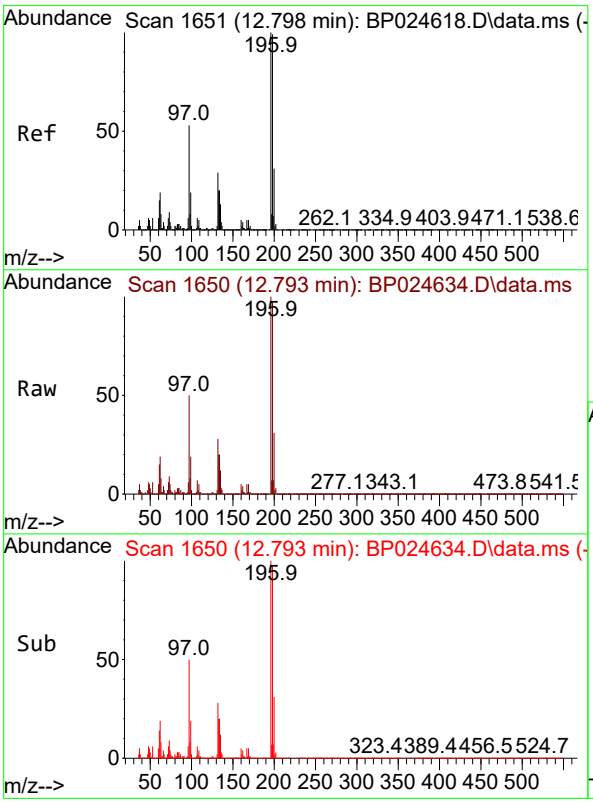
#43
2,4,6-Trichlorophenol
Concen: 41.226 ng
RT: 12.716 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 297629

Ion	Ratio	Lower	Upper
196	100		
198	96.0	76.9	115.3
200	30.6	25.2	37.8

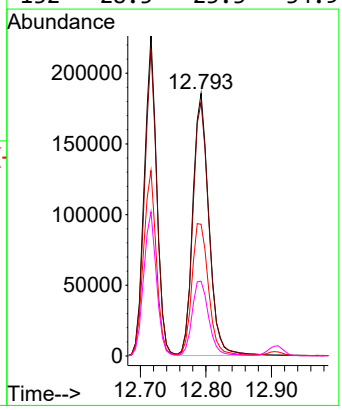


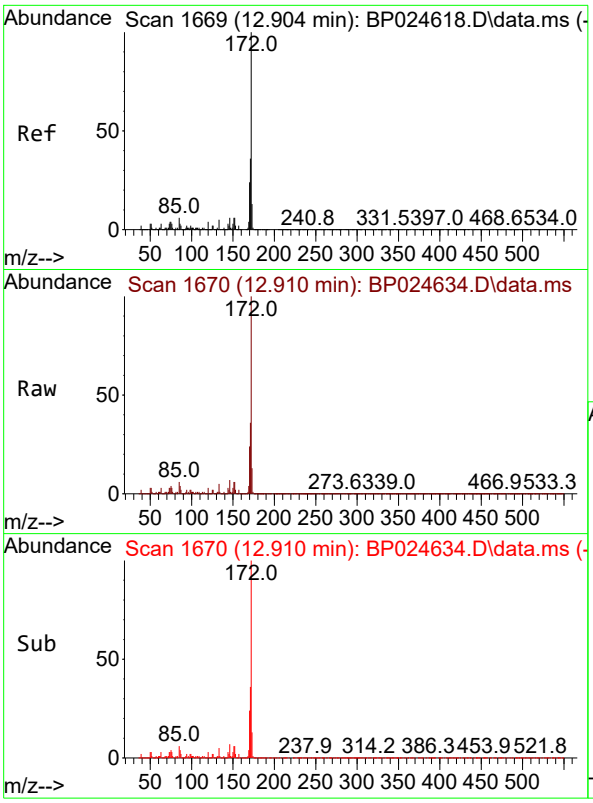


#44
2,4,5-Trichlorophenol
Concen: 39.313 ng
RT: 12.793 min Scan# 1650
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:196 Resp: 315927

Ion	Ratio	Lower	Upper
196	100		
198	96.7	79.2	118.8
97	50.2	42.3	63.5
132	28.5	23.3	34.9



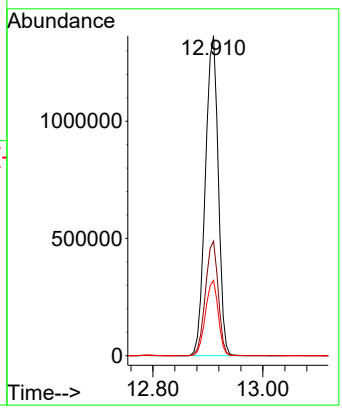


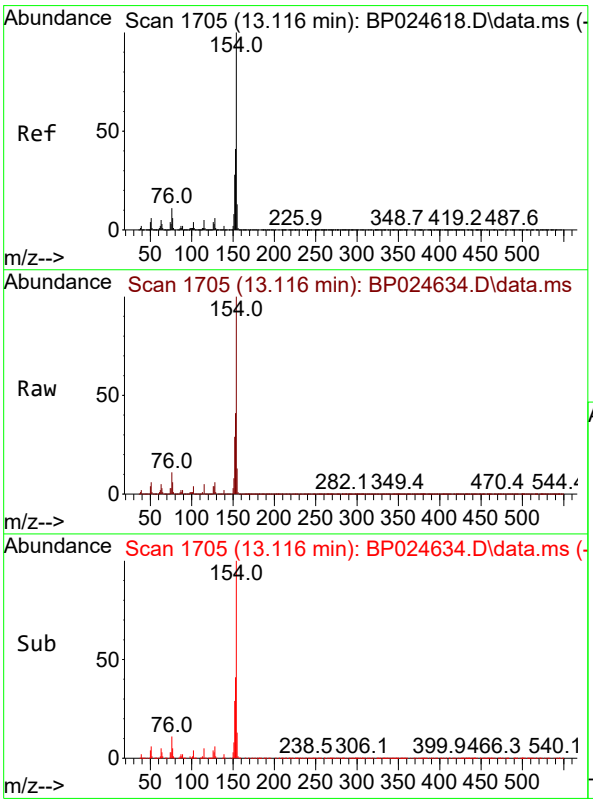
#45
2-Fluorobiphenyl
Concen: 75.785 ng
RT: 12.910 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 2220308

Ion	Ratio	Lower	Upper
172	100		
171	35.8	28.8	43.2
170	23.6	18.8	28.2

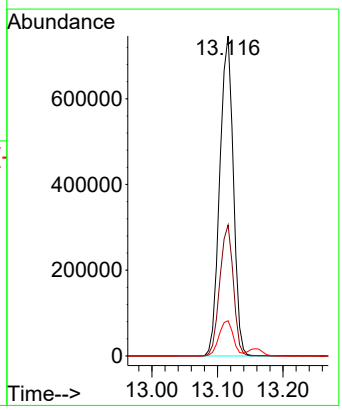


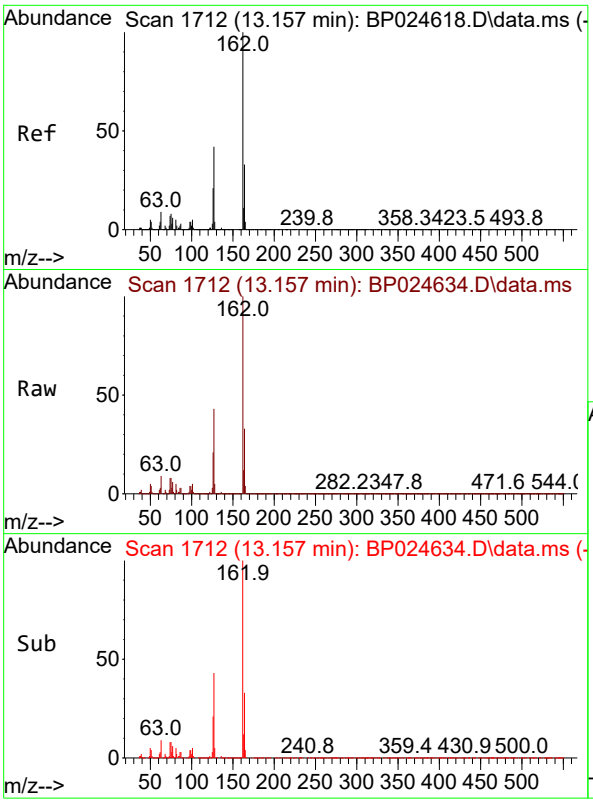


#46
1,1'-Biphenyl
Concen: 37.651 ng
RT: 13.116 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:154 Resp: 1068131

Ion	Ratio	Lower	Upper
154	100		
153	40.9	21.0	61.0
76	11.0	0.0	31.5



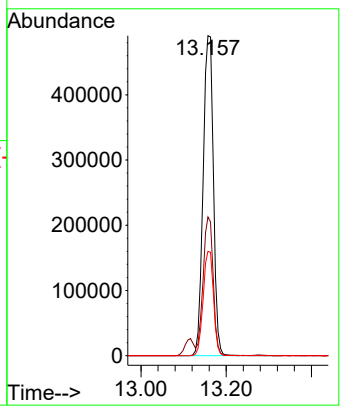


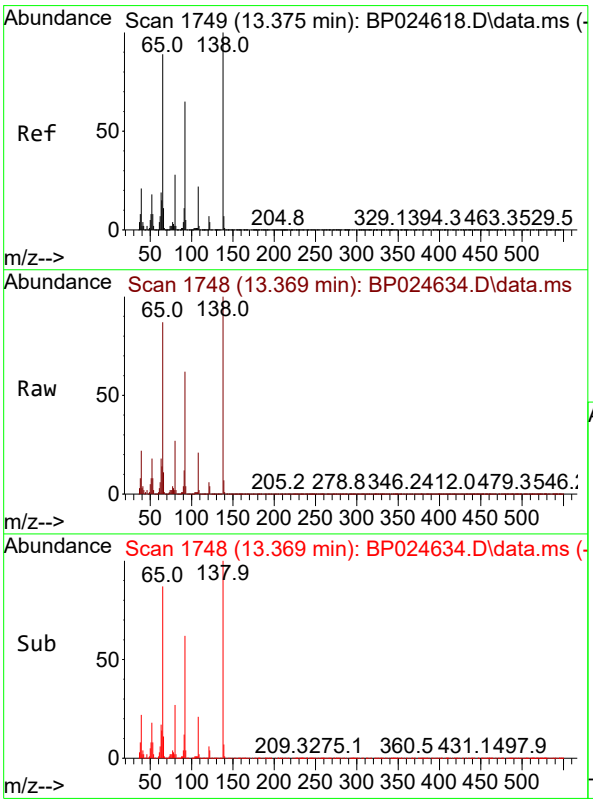
#47
2-Chloronaphthalene
Concen: 37.928 ng
RT: 13.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 820417

Ion	Ratio	Lower	Upper
162	100		
127	43.4	33.8	50.6
164	32.6	26.0	39.0

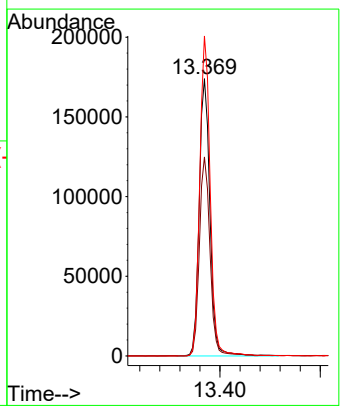


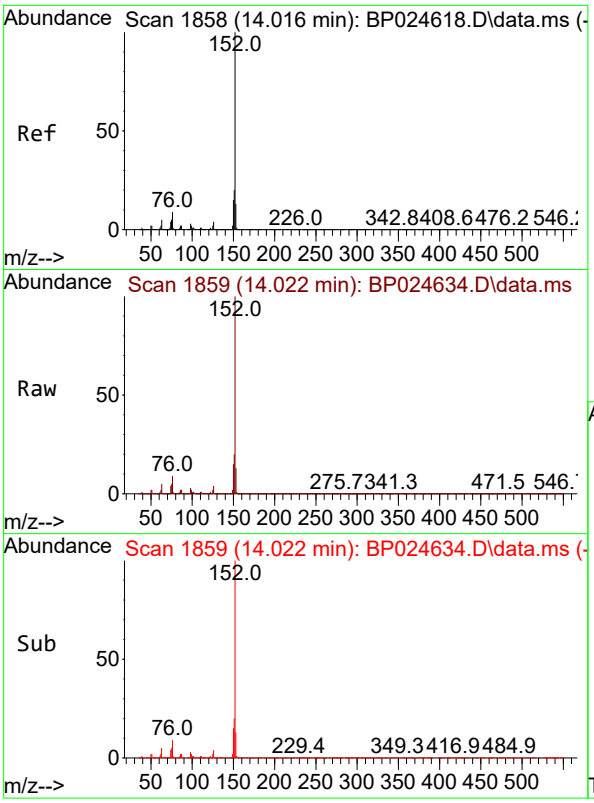


#48
2-Nitroaniline
Concen: 40.335 ng
RT: 13.369 min Scan# 1748
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion: 65 Resp: 258312

Ion	Ratio	Lower	Upper
65	100		
92	71.8	58.7	88.1
138	115.4	90.2	135.2



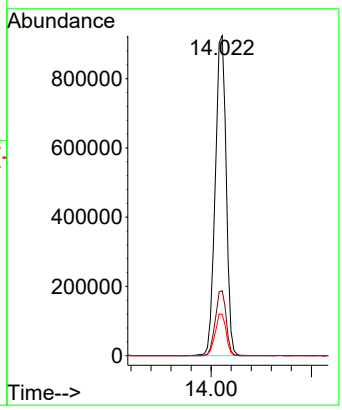


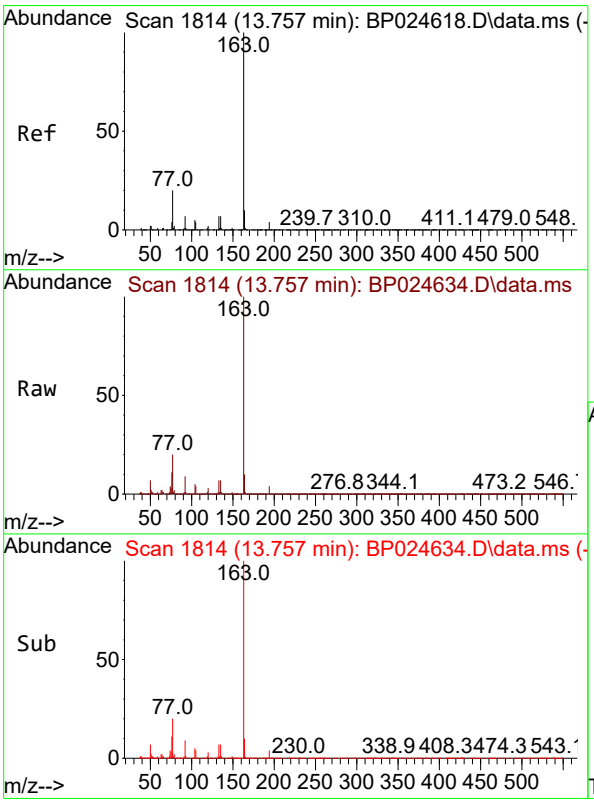
#49
Acenaphthylene
Concen: 38.405 ng
RT: 14.022 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 1390232

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	12.9	10.2	15.4

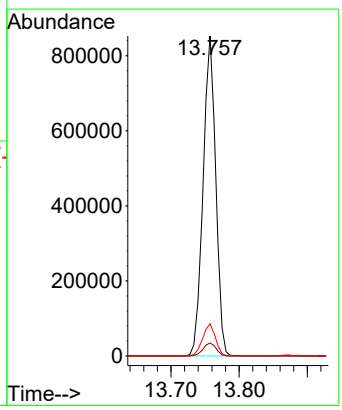


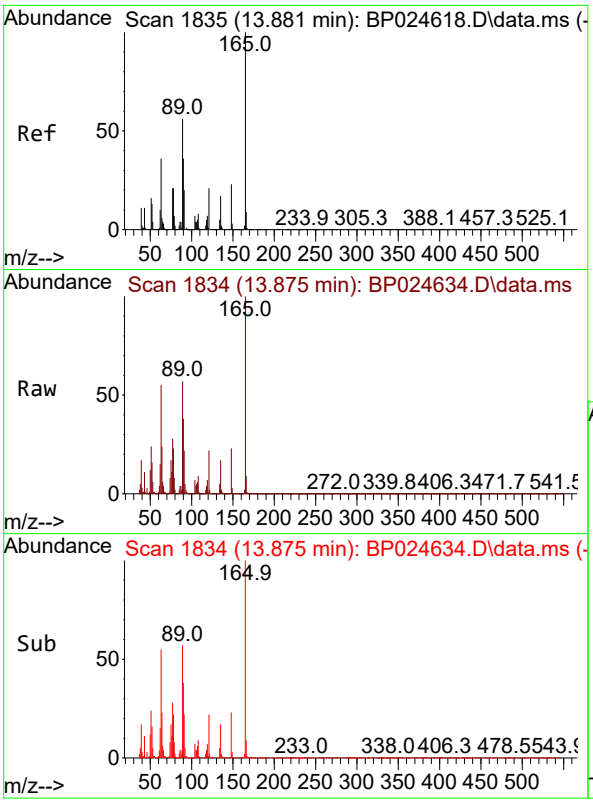


#50
Dimethylphthalate
Concen: 37.592 ng
RT: 13.757 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:163 Resp: 1099800

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	8.1	12.1



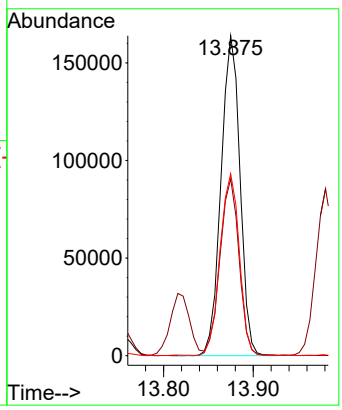


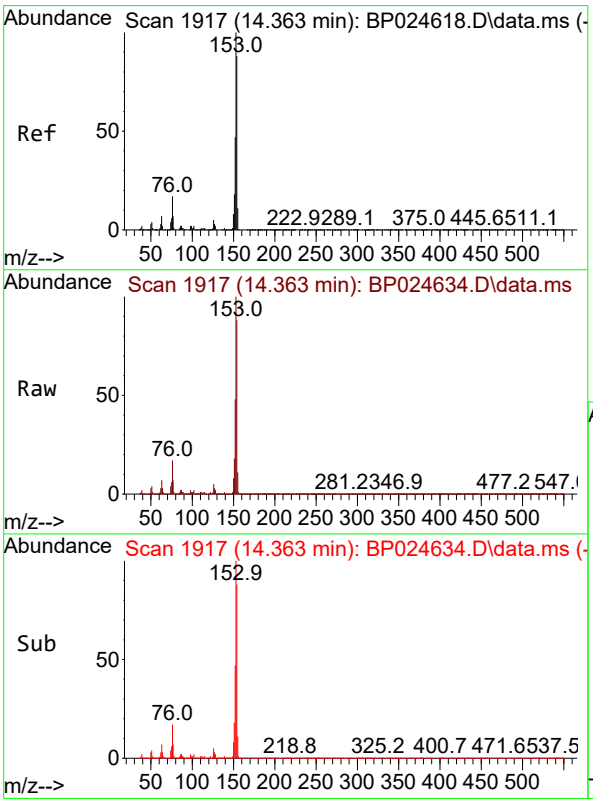
#51
2,6-Dinitrotoluene
Concen: 38.913 ng
RT: 13.875 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 240434

Ion	Ratio	Lower	Upper
165	100		
63	55.3	42.4	63.6
89	56.9	44.8	67.2

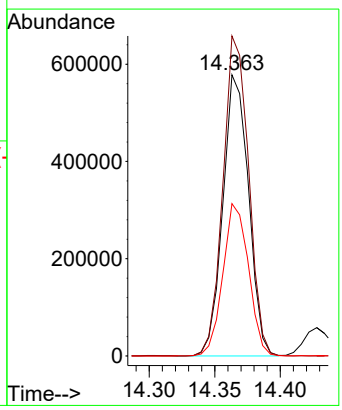


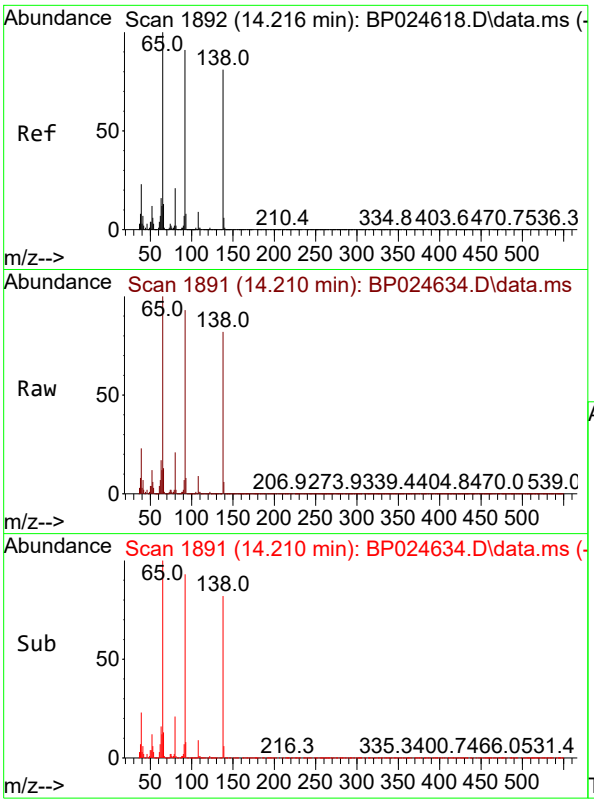


#52
Acenaphthene
Concen: 37.838 ng
RT: 14.363 min Scan# 1917
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:154 Resp: 787414

Ion	Ratio	Lower	Upper
154	100		
153	113.8	91.0	136.4
152	54.2	42.9	64.3



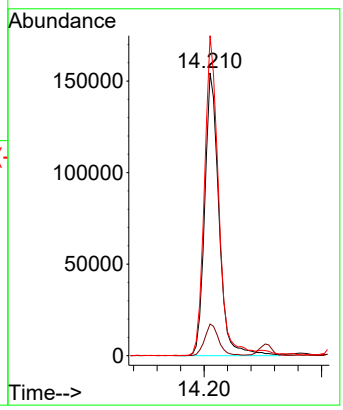


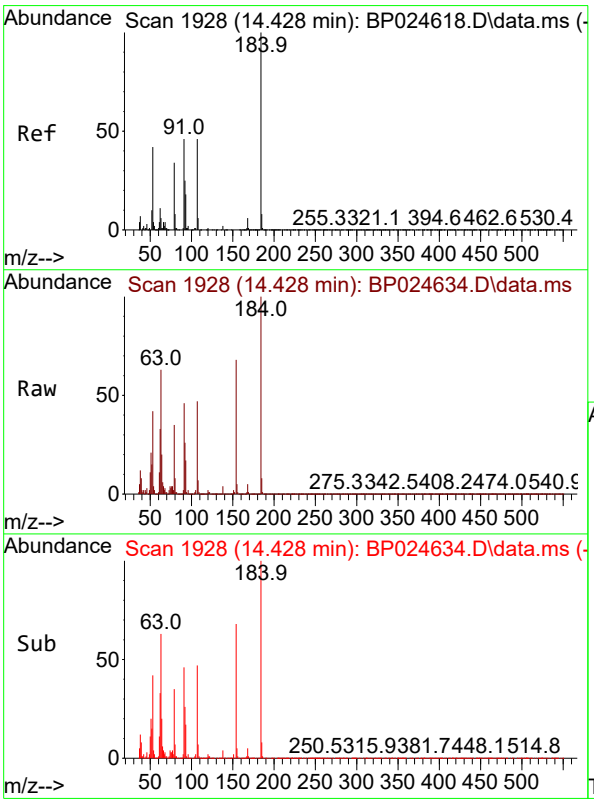
#53
3-Nitroaniline
Concen: 41.006 ng
RT: 14.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 258701

Ion	Ratio	Lower	Upper
138	100		
108	11.2	9.0	13.4
92	113.2	90.1	135.1

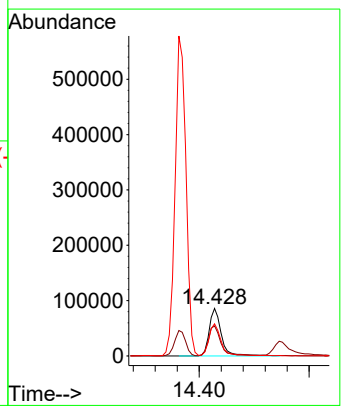


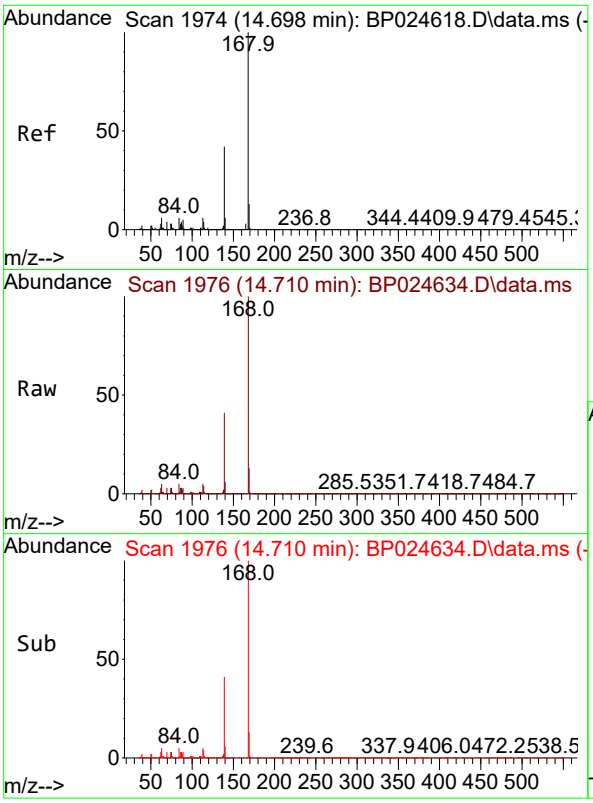


#54
2,4-Dinitrophenol
Concen: 37.204 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:184 Resp: 130453

Ion	Ratio	Lower	Upper
184	100		
63	63.3	51.3	76.9
154	67.8	53.5	80.3



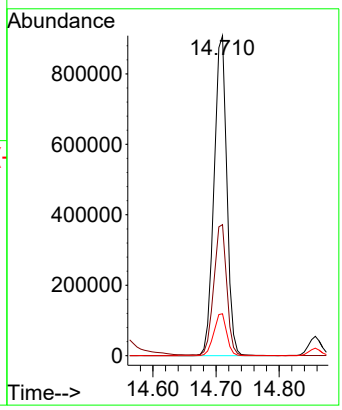


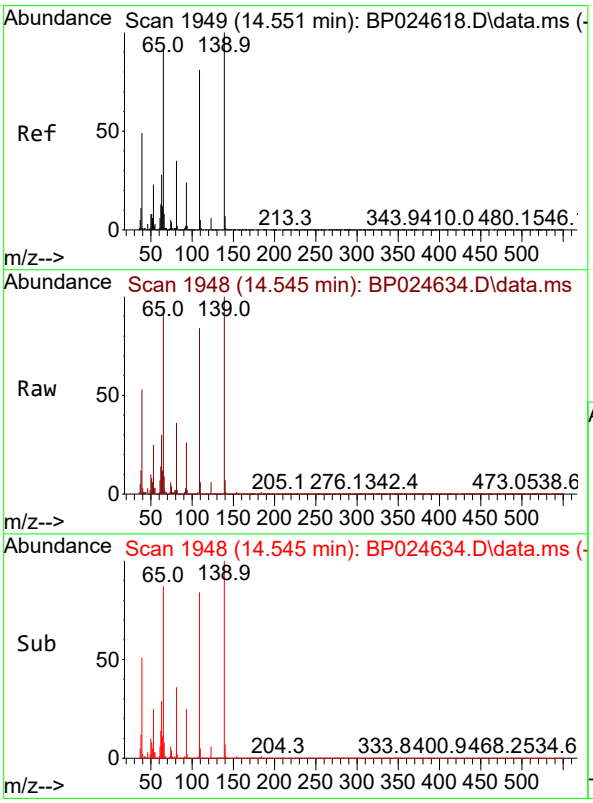
#55
Dibenzofuran
Concen: 38.367 ng
RT: 14.710 min Scan# 1
Delta R.T. 0.012 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 1273526

Ion	Ratio	Lower	Upper
168	100		
139	41.0	34.2	51.4
169	13.1	10.8	16.2

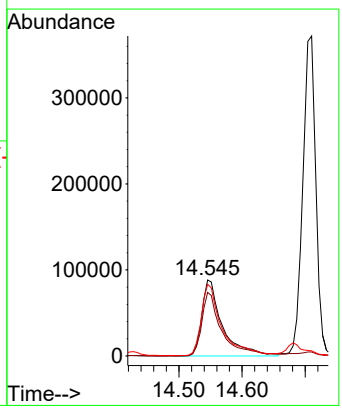


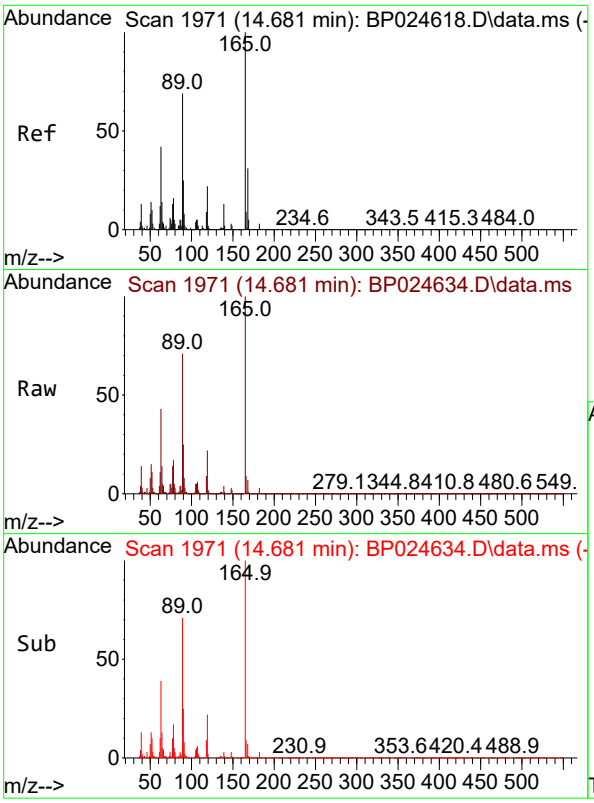


#56
4-Nitrophenol
Concen: 38.819 ng
RT: 14.545 min Scan# 1948
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:139 Resp: 199455

Ion	Ratio	Lower	Upper
139	100		
109	83.6	61.4	101.4
65	94.4	72.2	112.2



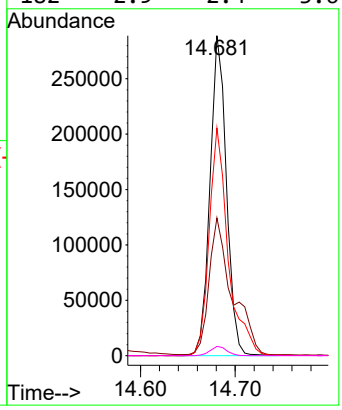


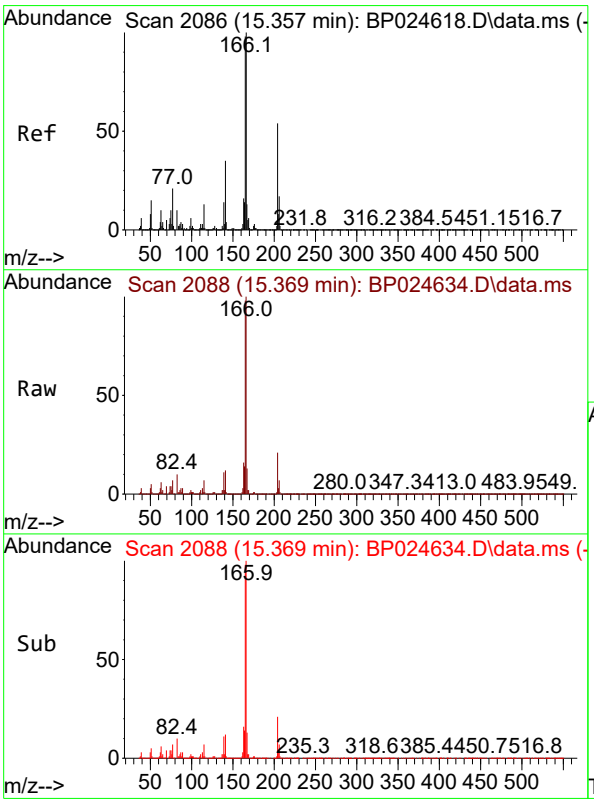
#57
2,4-Dinitrotoluene
Concen: 39.924 ng
RT: 14.681 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 347771

Ion	Ratio	Lower	Upper
165	100		
63	43.0	33.8	50.6
89	71.2	55.6	83.4
182	2.9	2.4	3.6

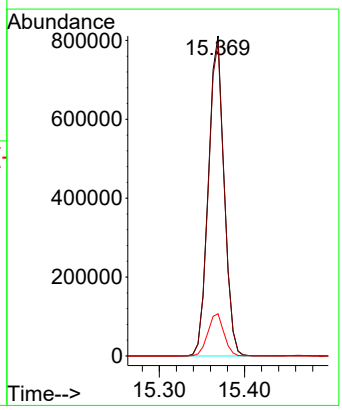


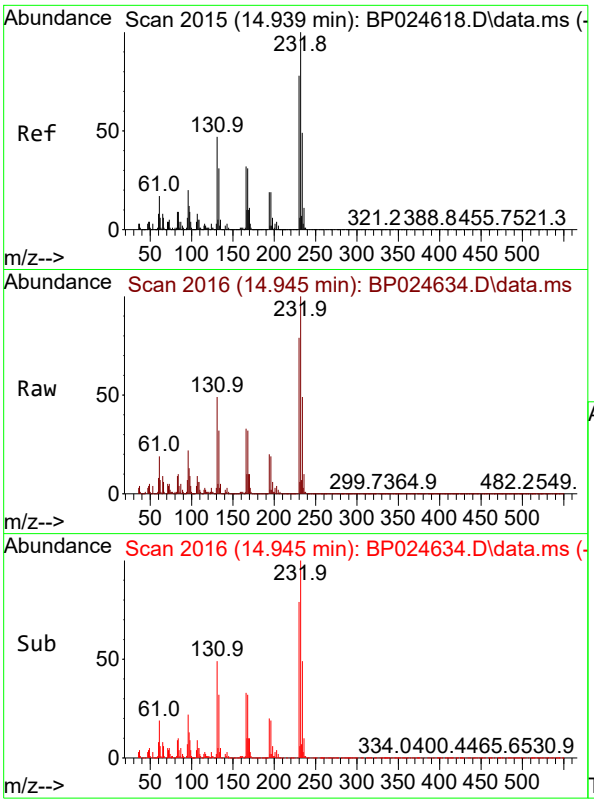


#58
Fluorene
Concen: 38.456 ng
RT: 15.369 min Scan# 2088
Delta R.T. 0.012 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:166 Resp: 1040858

Ion	Ratio	Lower	Upper
166	100		
165	97.9	78.5	117.7
167	13.2	10.7	16.1



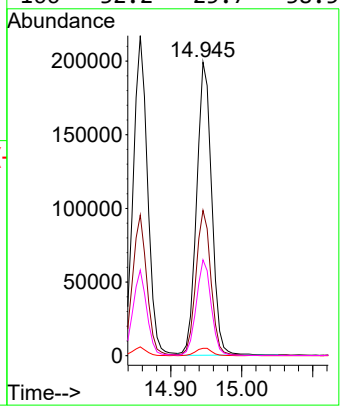


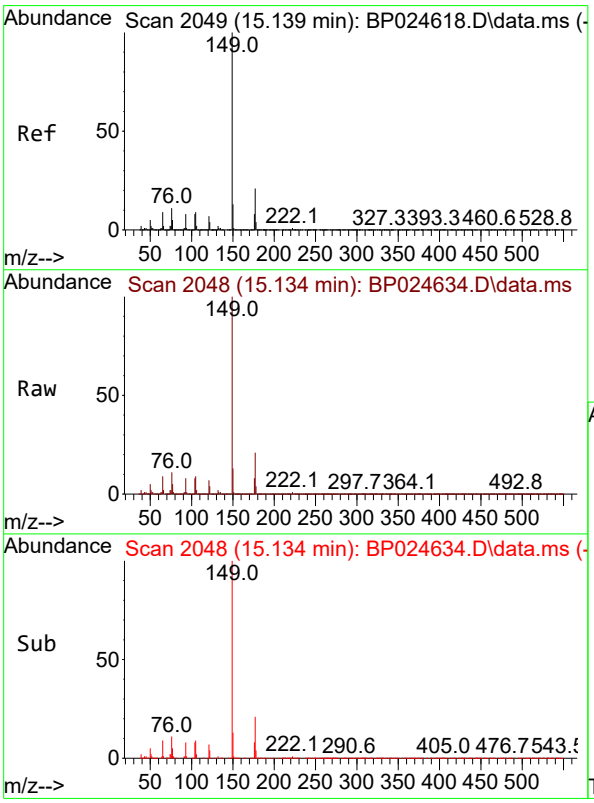
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.477 ng
RT: 14.945 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 294291

Ion	Ratio	Lower	Upper
232	100		
131	48.9	39.5	59.3
130	2.8	2.2	3.4
166	32.2	25.7	38.5

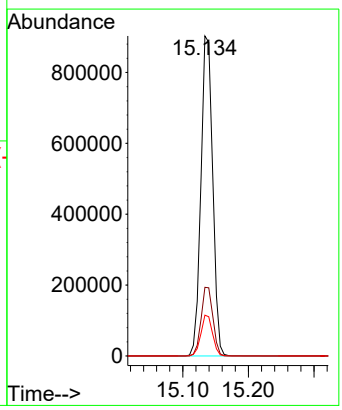


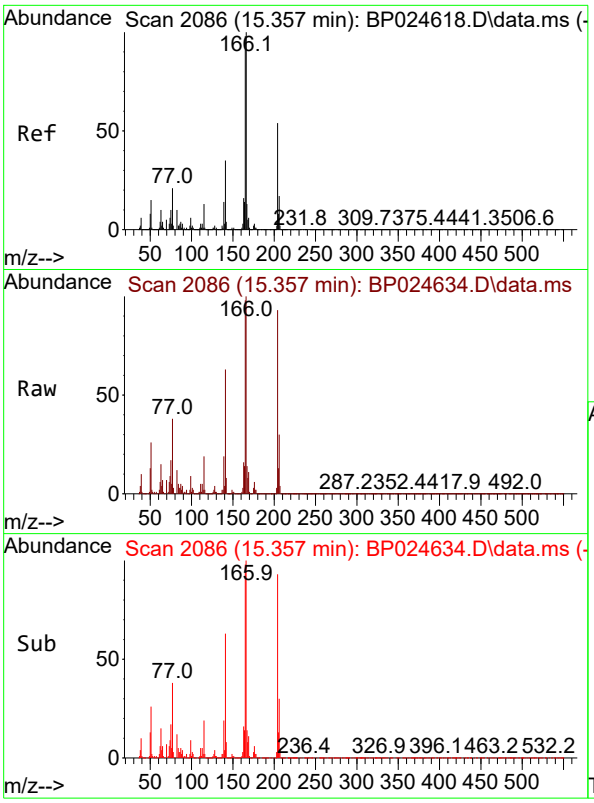


#60
Diethylphthalate
Concen: 38.341 ng
RT: 15.134 min Scan# 2048
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:149 Resp: 1133709

Ion	Ratio	Lower	Upper
149	100		
177	21.4	16.7	25.1
150	12.7	10.2	15.2



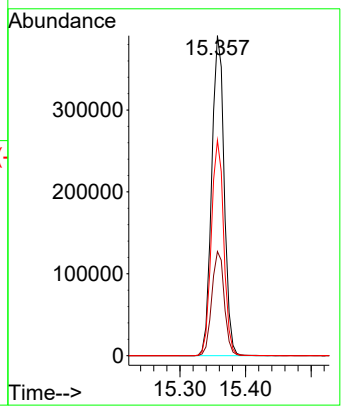


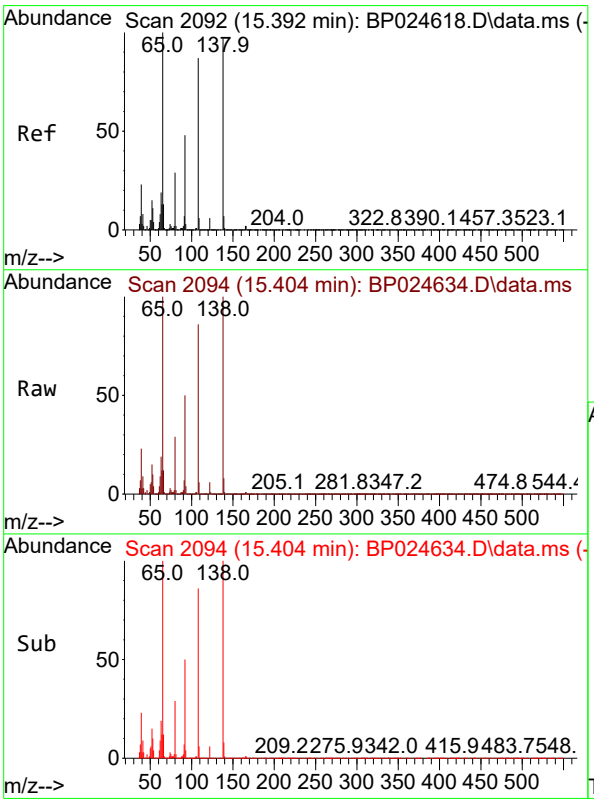
#61
4-Chlorophenyl-phenylether
Concen: 38.222 ng
RT: 15.357 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 515911

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.0	39.0
141	67.3	52.9	79.3

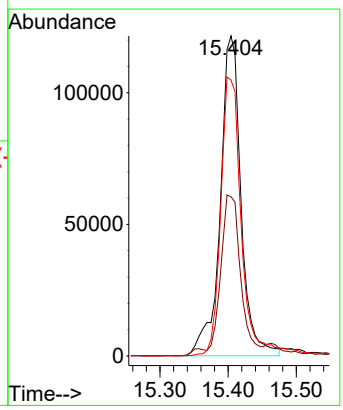


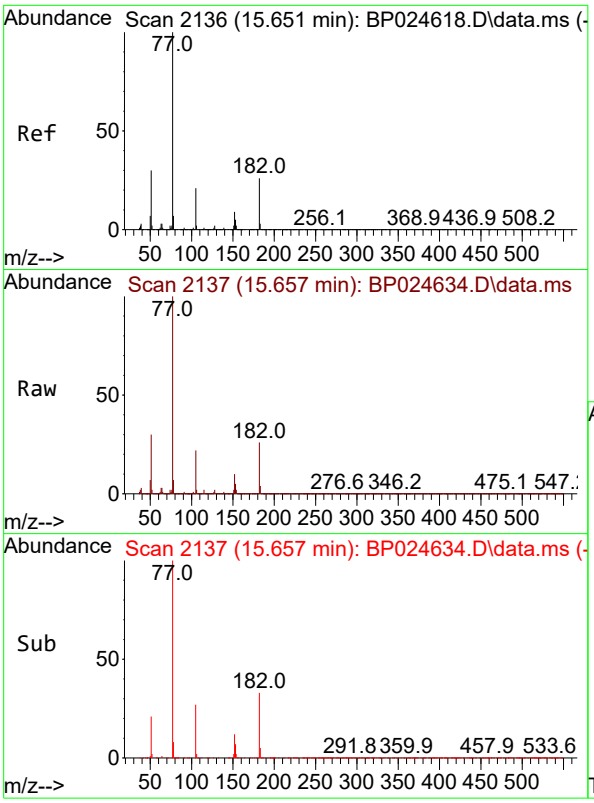


#62
4-Nitroaniline
Concen: 42.533 ng
RT: 15.404 min Scan# 2094
Delta R.T. 0.012 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:138 Resp: 259097

Ion	Ratio	Lower	Upper
138	100		
92	49.8	29.2	69.2
108	86.2	69.0	109.0



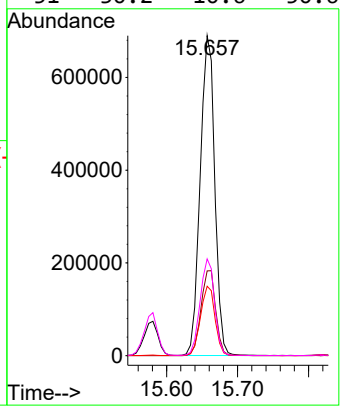


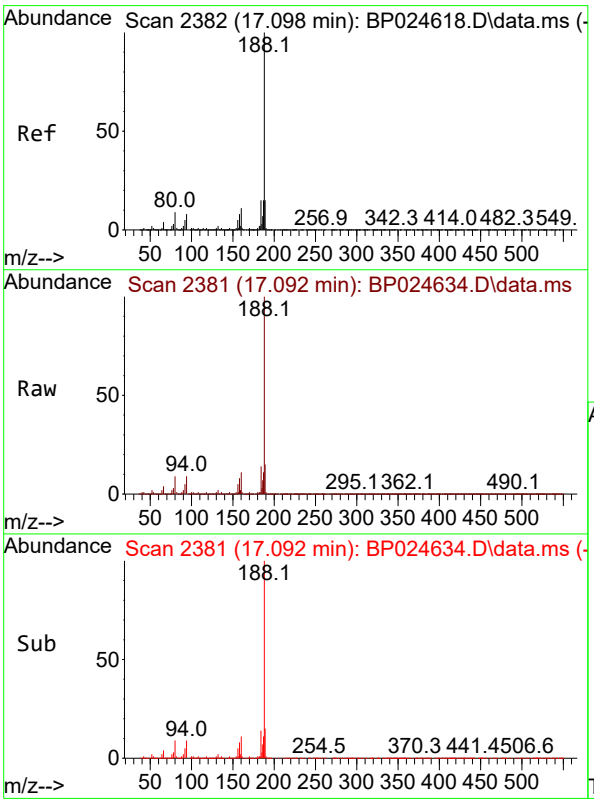
#63
Azobenzene
Concen: 38.912 ng
RT: 15.657 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 984323

Ion	Ratio	Lower	Upper
77	100		
182	26.5	5.7	45.7
105	21.7	1.3	41.3
51	30.2	10.6	50.6

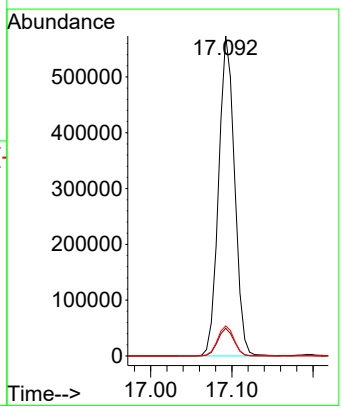


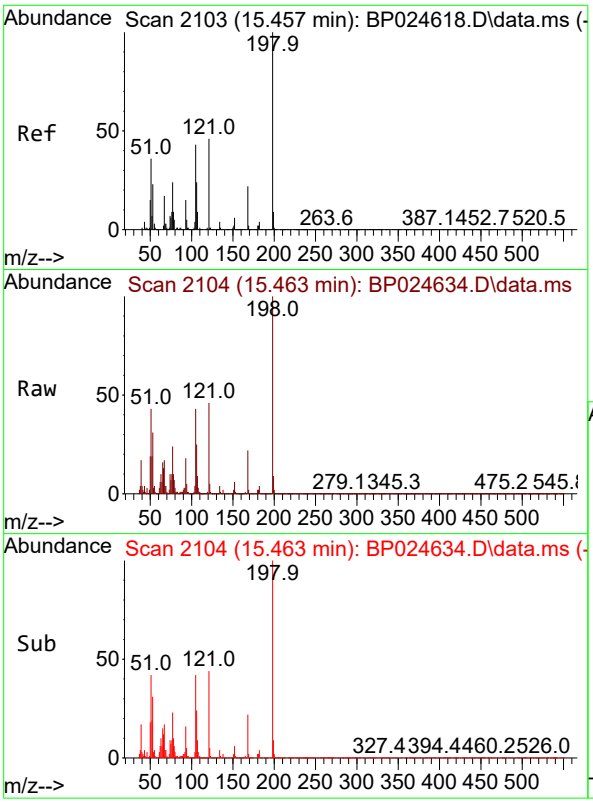


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.092 min Scan# 2381
Delta R.T. -0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:188 Resp: 784999

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.5	9.7
80	9.4	7.3	10.9



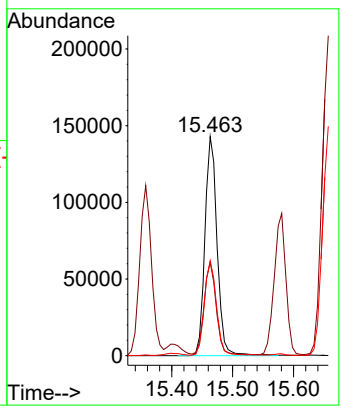


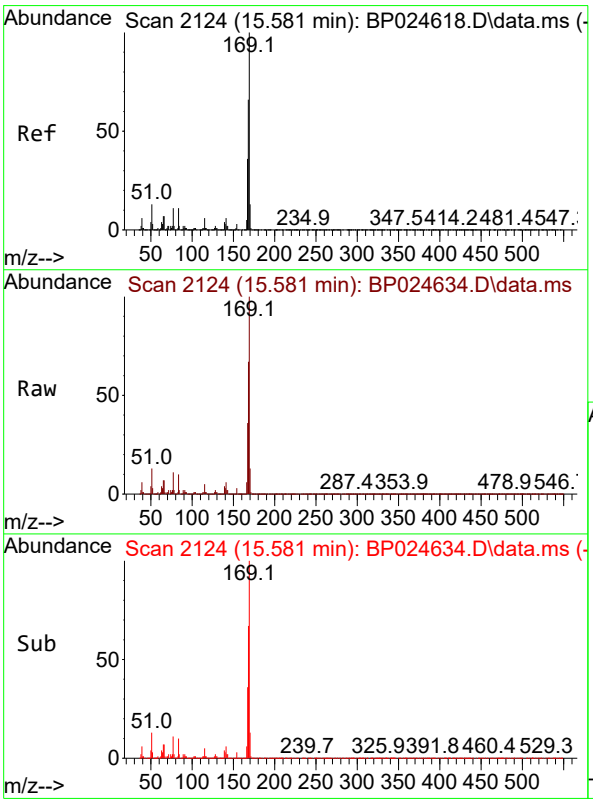
#65
4,6-Dinitro-2-methylphenol
Concen: 39.144 ng
RT: 15.463 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 198484

Ion	Ratio	Lower	Upper
198	100		
51	42.6	21.1	61.1
105	43.3	23.6	63.6

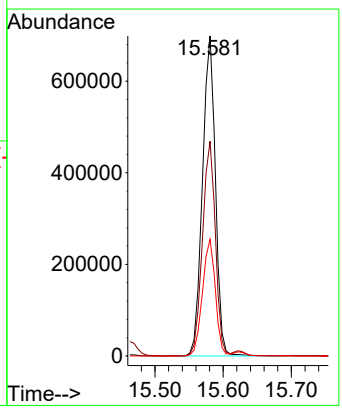


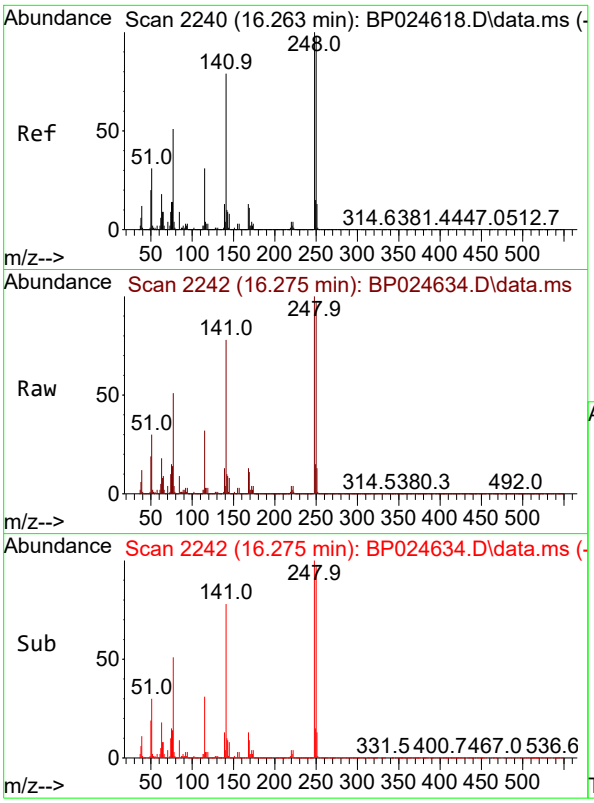


#66
n-Nitrosodiphenylamine
Concen: 38.269 ng
RT: 15.581 min Scan# 2124
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:169 Resp: 922739

Ion	Ratio	Lower	Upper
169	100		
168	67.1	53.2	79.8
167	36.4	28.6	43.0



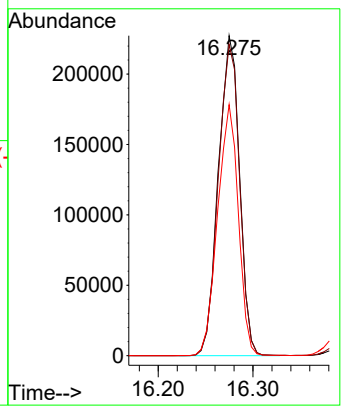


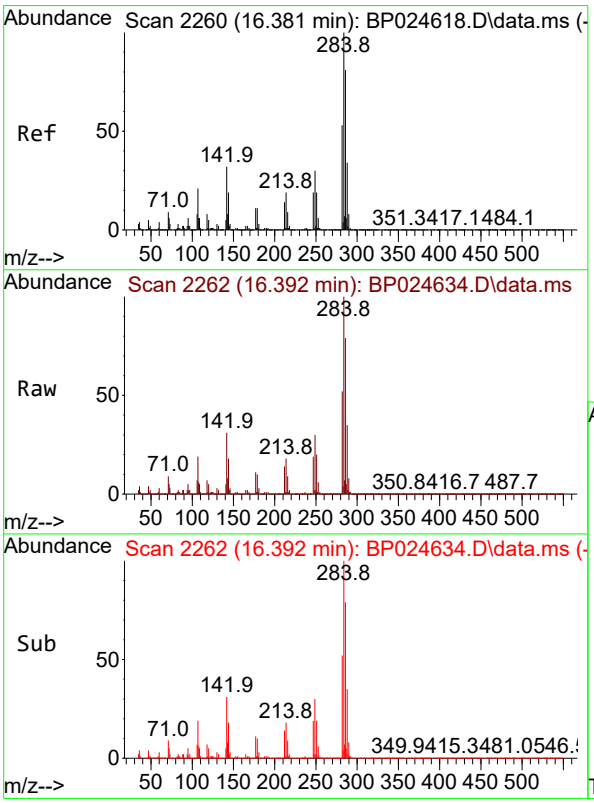
#67
4-Bromophenyl-phenylether
Concen: 38.112 ng
RT: 16.275 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 352534

Ion	Ratio	Lower	Upper
248	100		
250	97.3	78.2	117.4
141	78.4	63.0	94.6

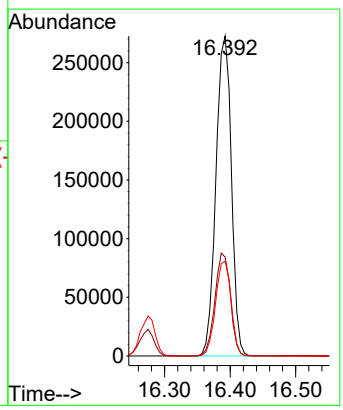


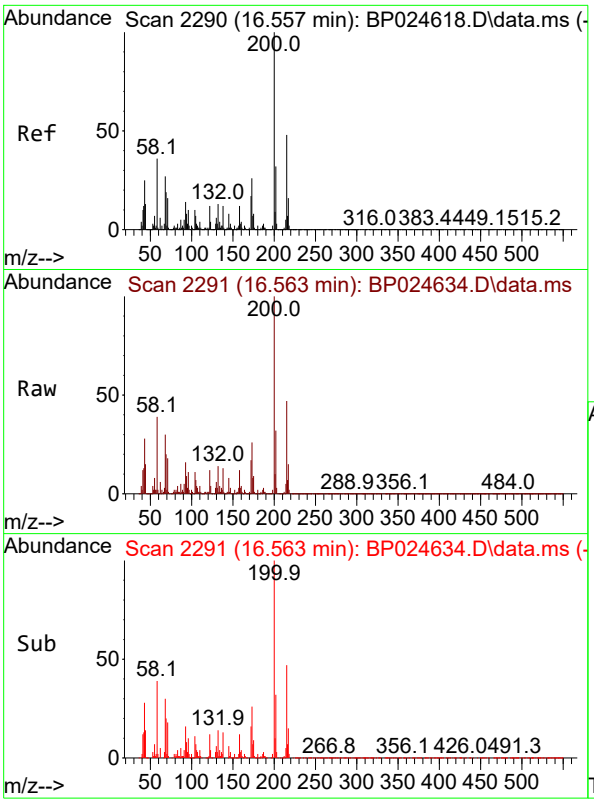


#68
Hexachlorobenzene
Concen: 37.783 ng
RT: 16.392 min Scan# 2262
Delta R.T. 0.012 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:284 Resp: 444096

Ion	Ratio	Lower	Upper
284	100		
142	30.9	25.9	38.9
249	29.5	24.1	36.1



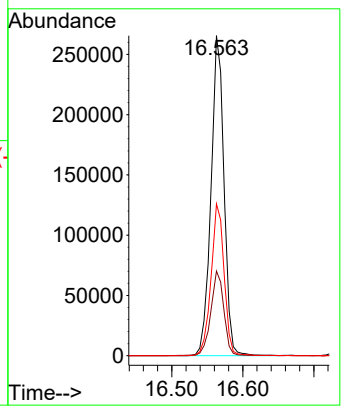


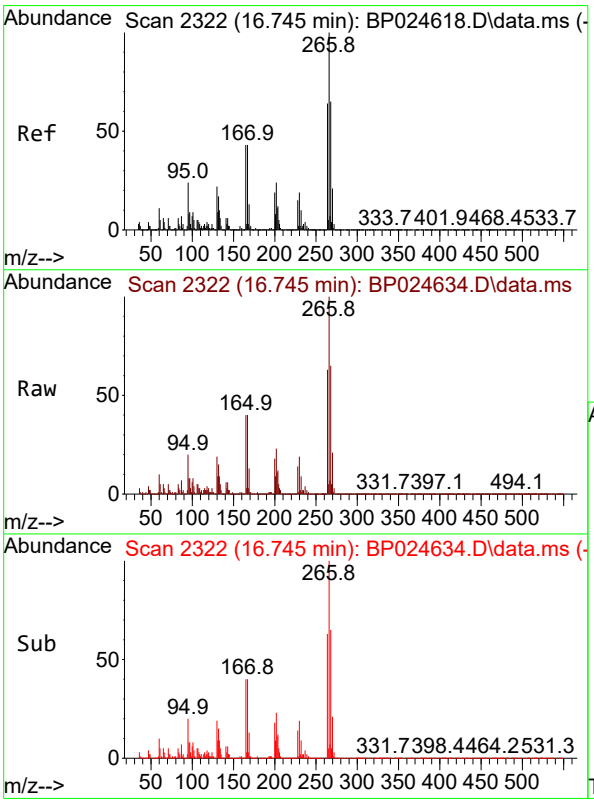
#69
Atrazine
Concen: 38.309 ng
RT: 16.563 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 338512

Ion	Ratio	Lower	Upper
200	100		
173	26.5	5.9	45.9
215	47.4	28.3	68.3

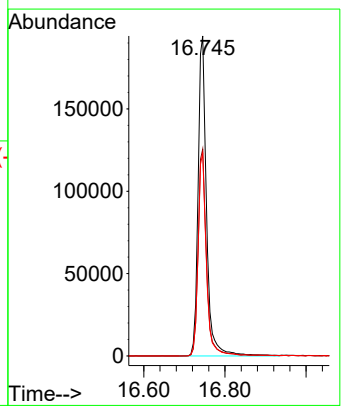


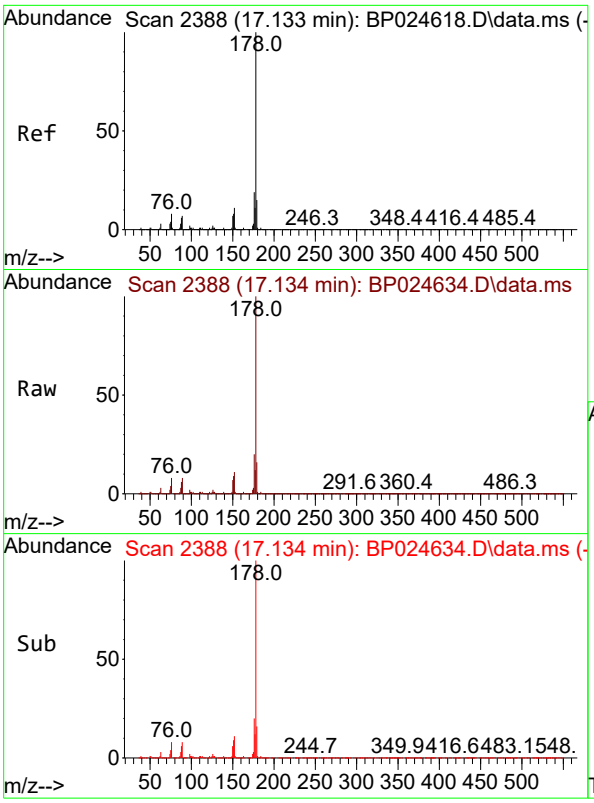


#70
Pentachlorophenol
Concen: 42.824 ng
RT: 16.745 min Scan# 2322
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:266 Resp: 282553

Ion	Ratio	Lower	Upper
266	100		
268	64.6	52.2	78.4
264	63.4	51.1	76.7



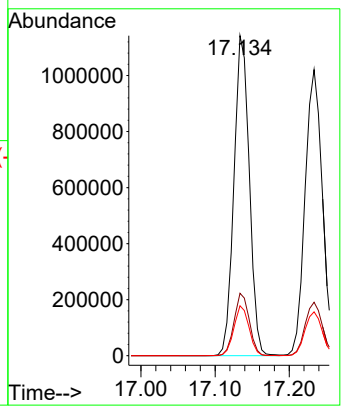


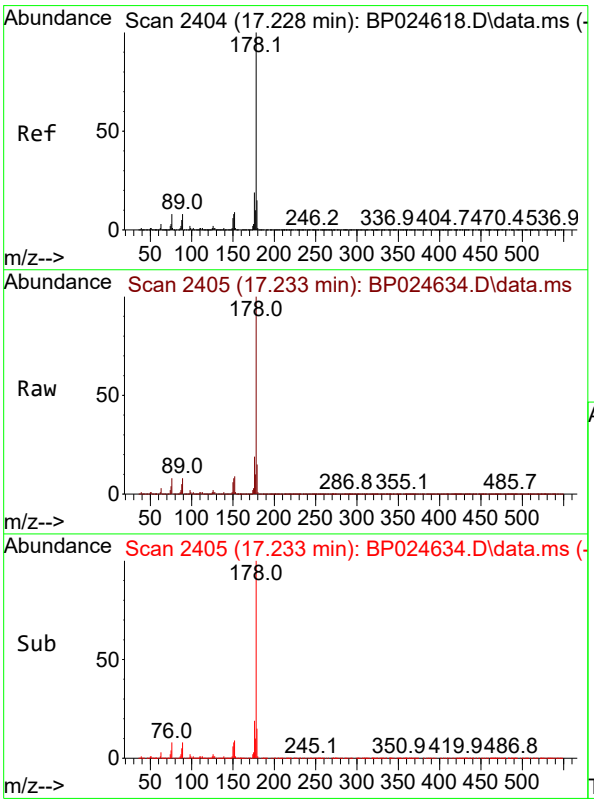
#71
Phenanthrene
Concen: 37.740 ng
RT: 17.134 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 1646955

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.6	12.2	18.4

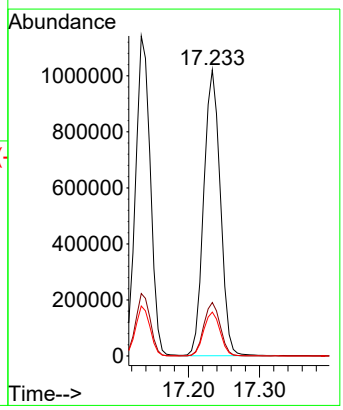


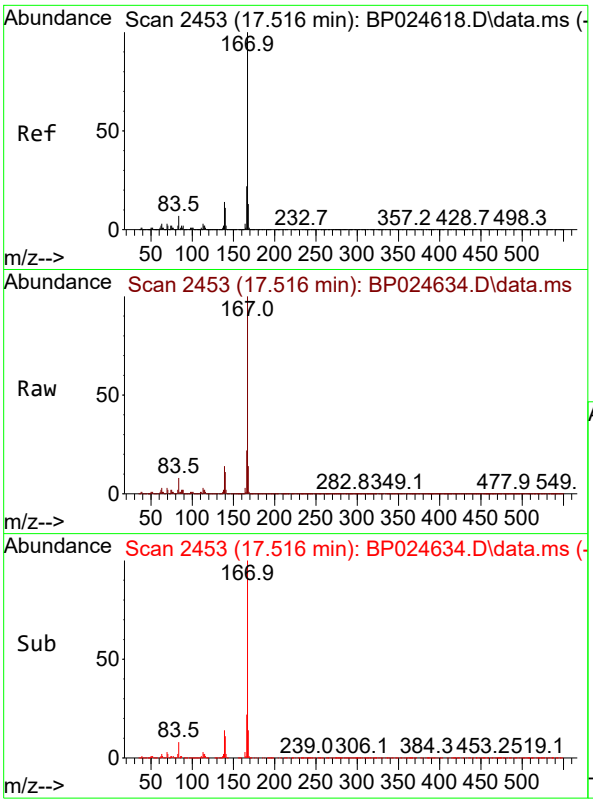


#72
Anthracene
Concen: 37.640 ng
RT: 17.233 min Scan# 2405
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:178 Resp: 1652621

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.4	12.2	18.2



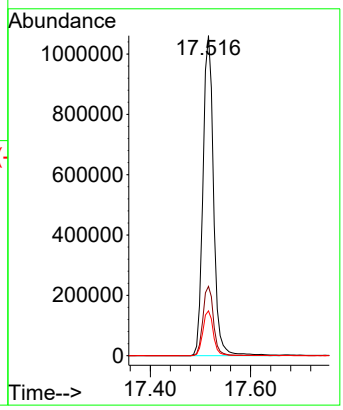


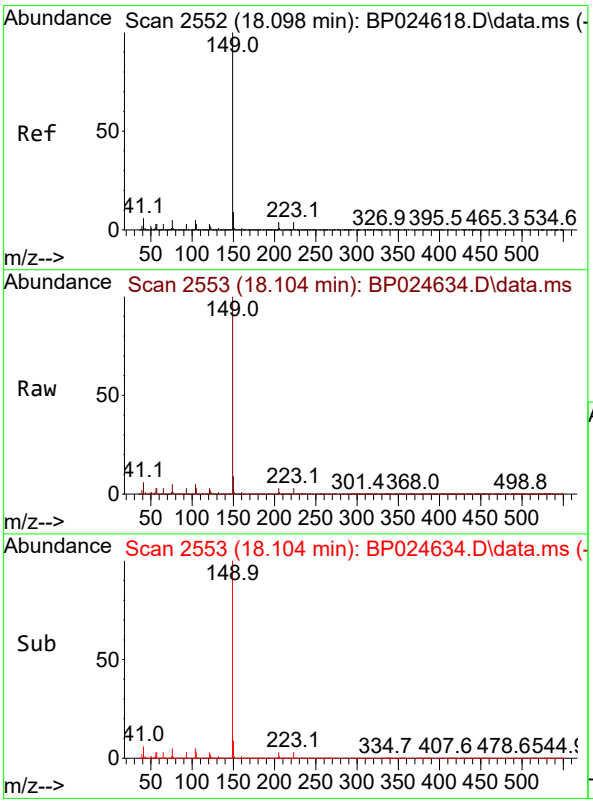
#73
Carbazole
Concen: 39.163 ng
RT: 17.516 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 1556303

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.7	26.5
139	14.0	11.3	16.9

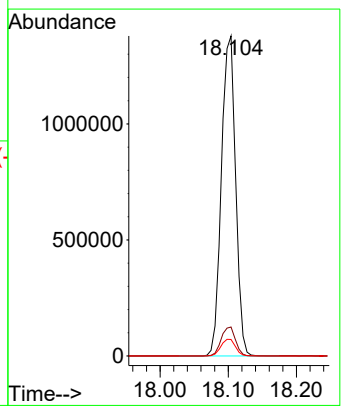


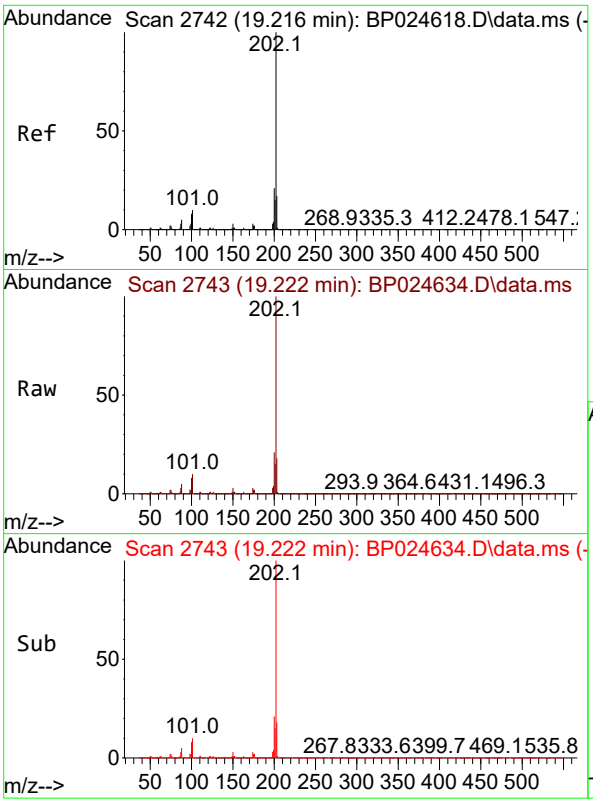


#74
Di-n-butylphthalate
Concen: 39.073 ng
RT: 18.104 min Scan# 2553
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:149 Resp: 1996950

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.2	10.8
104	5.1	4.3	6.5



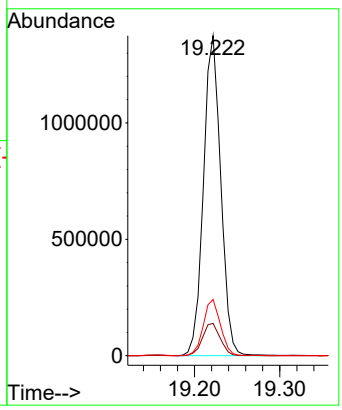


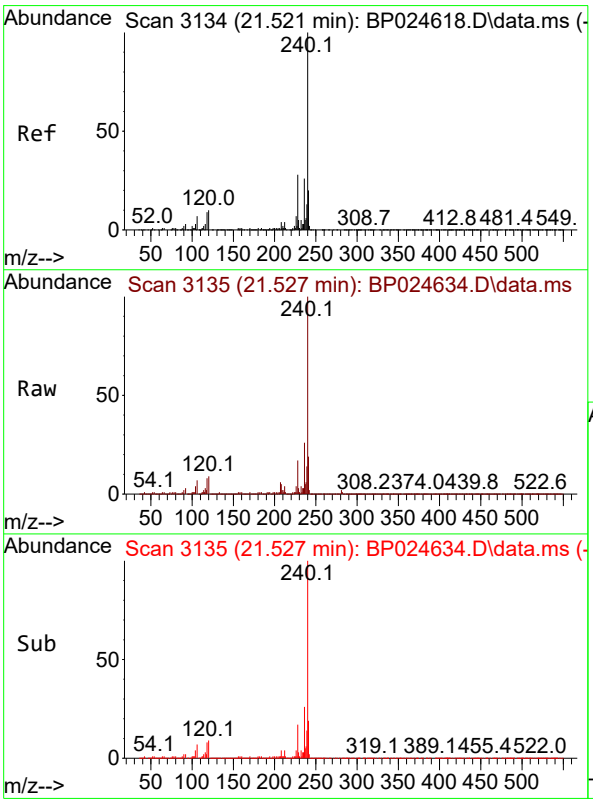
#75
Fluoranthene
Concen: 37.994 ng
RT: 19.222 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 1938125

Ion	Ratio	Lower	Upper
202	100		
101	10.1	0.0	30.3
203	17.5	0.0	37.5

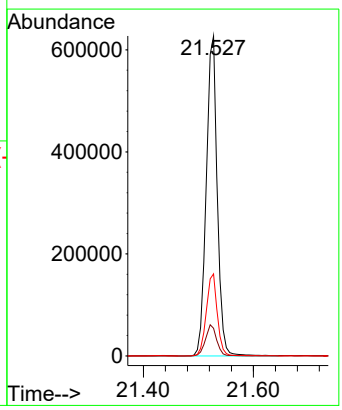


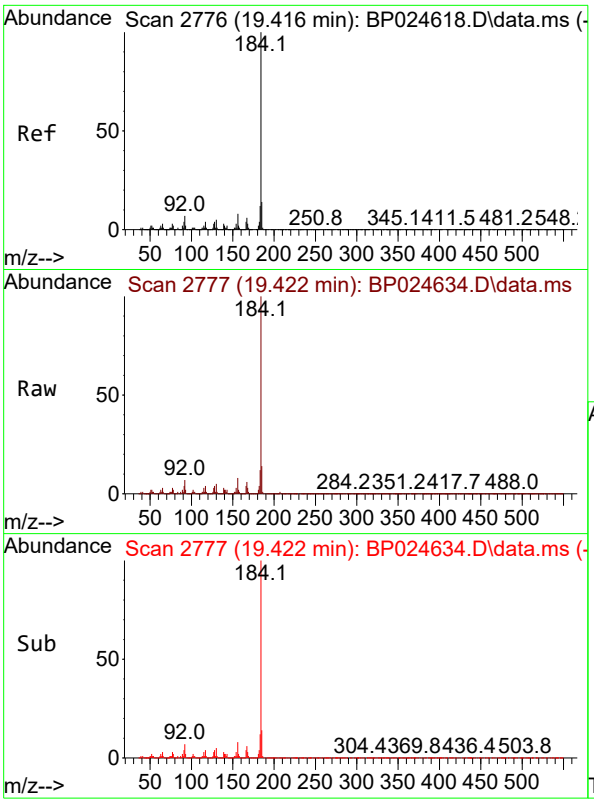


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.527 min Scan# 3135
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:240 Resp: 868702

Ion	Ratio	Lower	Upper
240	100		
120	8.7	7.8	11.6
236	25.6	20.6	31.0



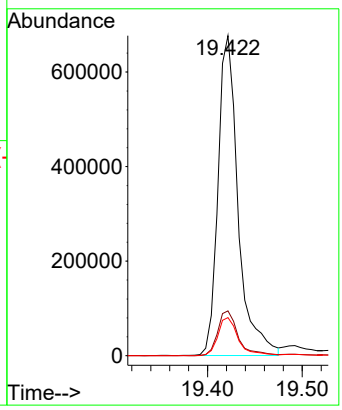


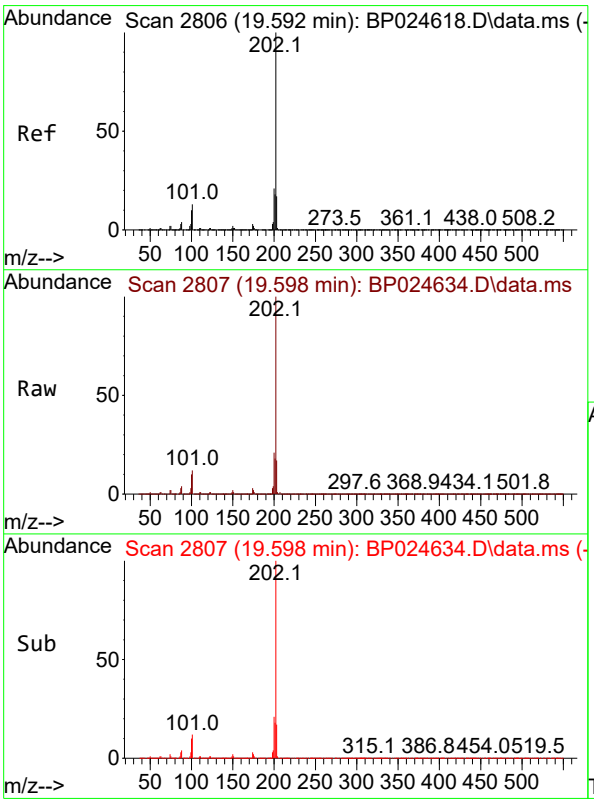
#77
Benzidine
Concen: 42.277 ng
RT: 19.422 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 1000272

Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.2	16.8
183	11.9	9.8	14.8

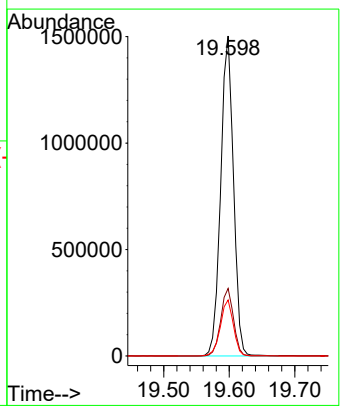


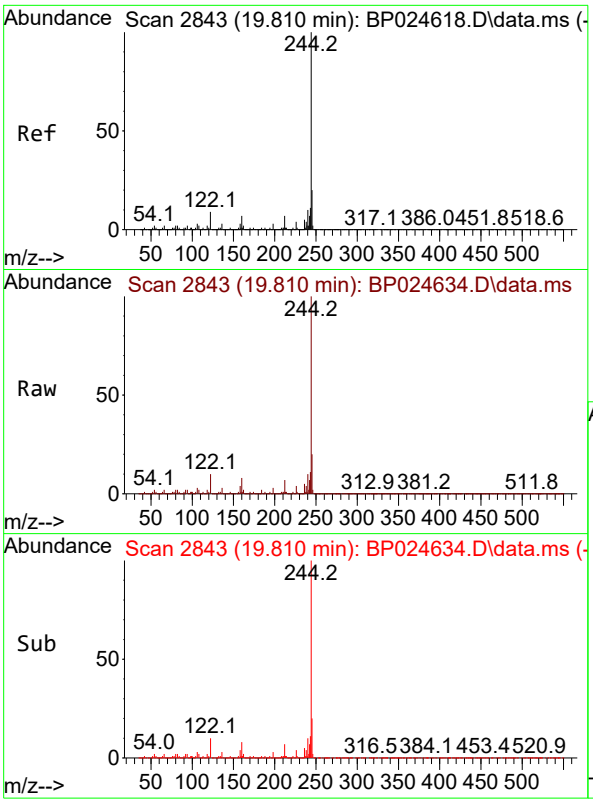


#78
Pyrene
Concen: 38.892 ng
RT: 19.598 min Scan# 2807
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:202 Resp: 2024361

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.5	13.9	20.9



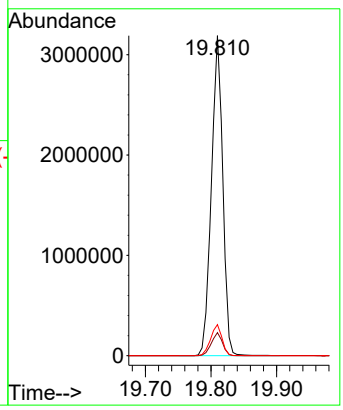


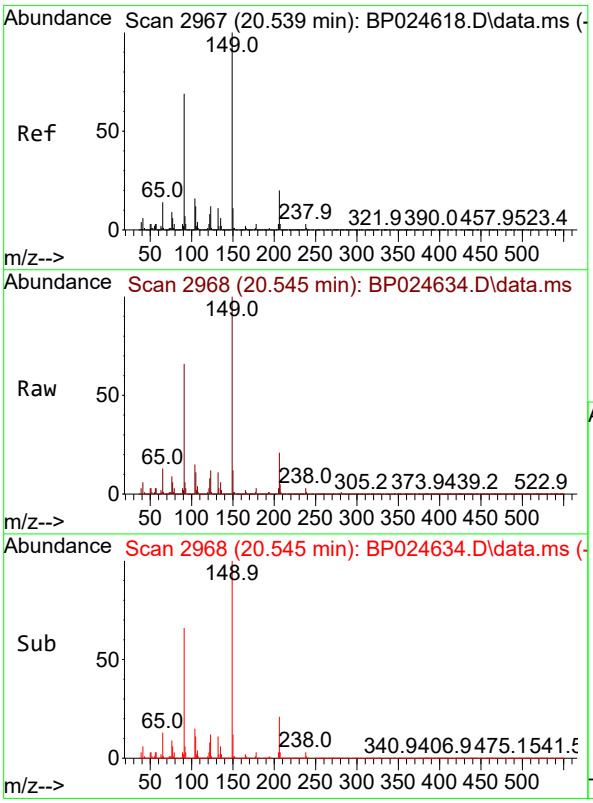
#79
Terphenyl-d14
Concen: 75.758 ng
RT: 19.810 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 3838058

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.5	8.3
122	9.7	7.4	11.0

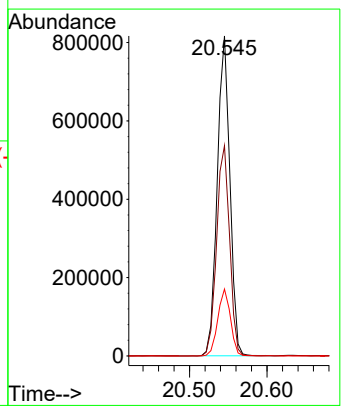


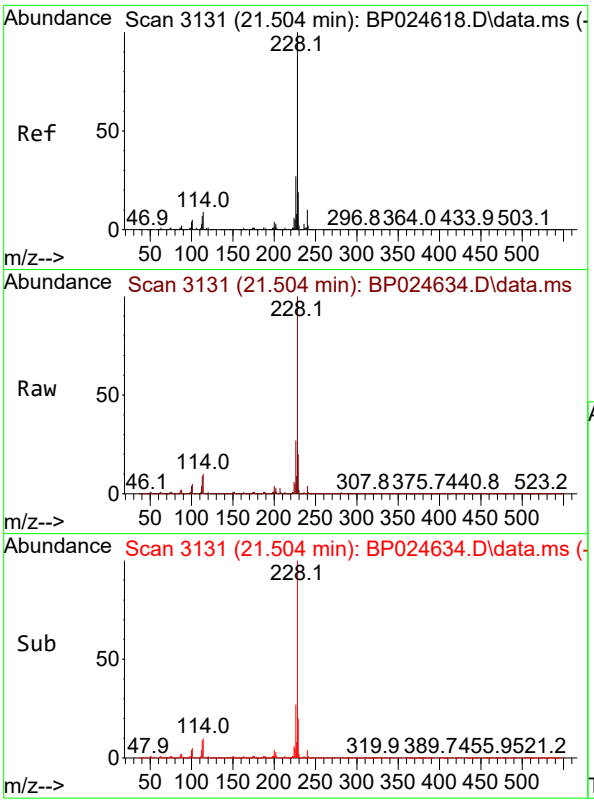


#80
Butylbenzylphthalate
Concen: 39.878 ng
RT: 20.545 min Scan# 2968
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:149 Resp: 923140

Ion	Ratio	Lower	Upper
149	100		
91	65.7	55.4	83.0
206	20.9	16.2	24.2



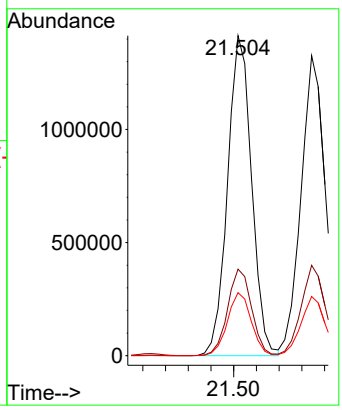


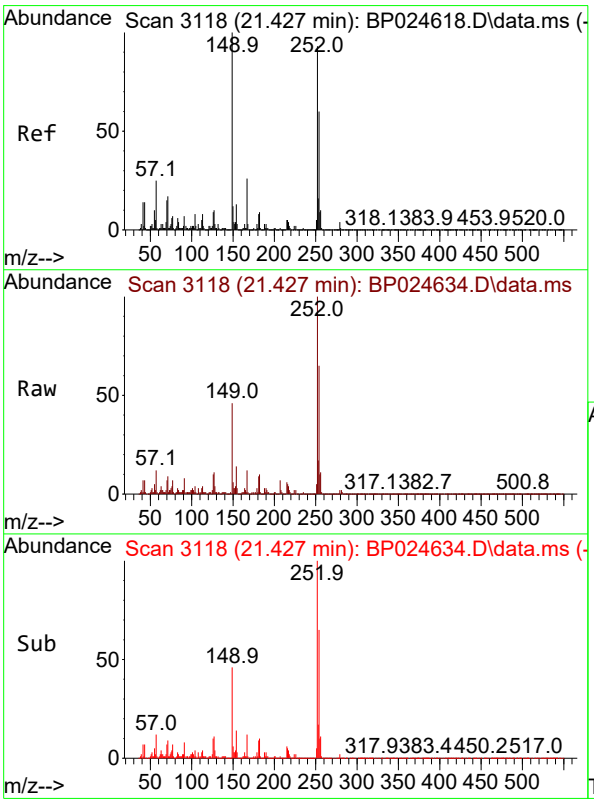
#81
Benzo(a)anthracene
Concen: 38.158 ng
RT: 21.504 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 2081406

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.4	32.0
229	19.7	15.5	23.3

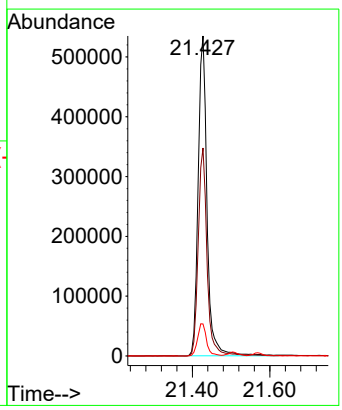


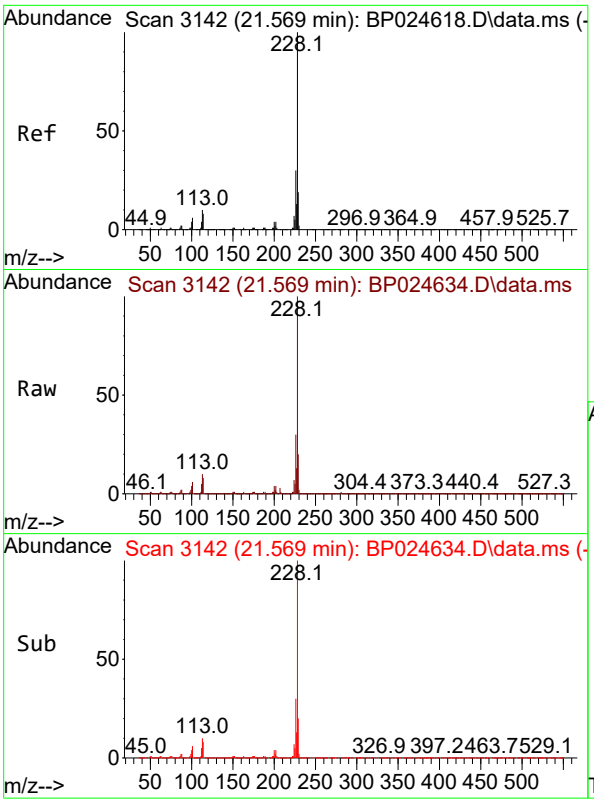


#82
3,3'-Dichlorobenzidine
Concen: 42.067 ng
RT: 21.427 min Scan# 3118
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:252 Resp: 852276

Ion	Ratio	Lower	Upper
252	100		
254	65.0	51.8	77.6
126	10.0	7.7	11.5



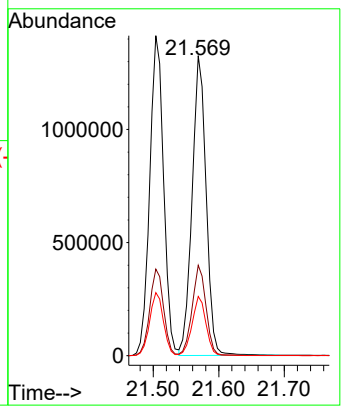


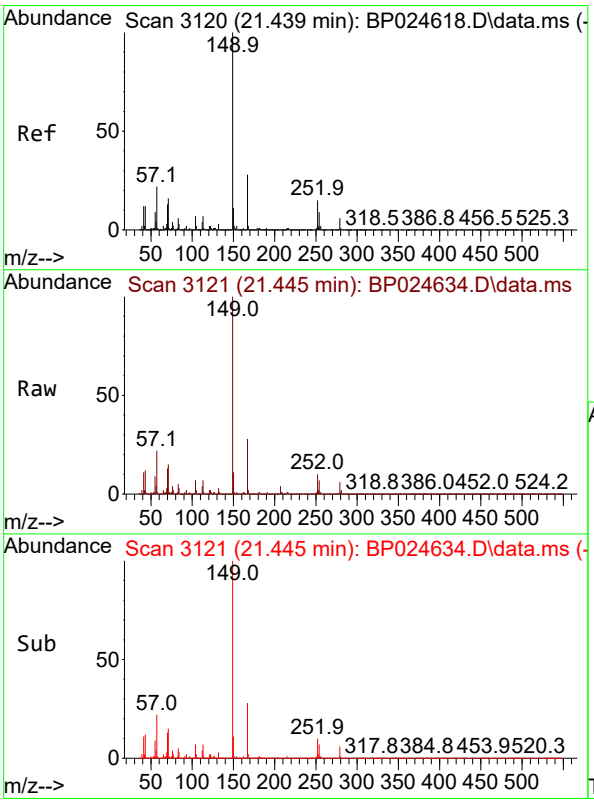
#83
Chrysene
Concen: 38.138 ng
RT: 21.569 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1972026

Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.9	35.9
229	19.7	15.5	23.3

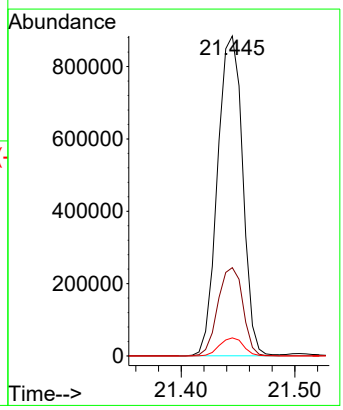


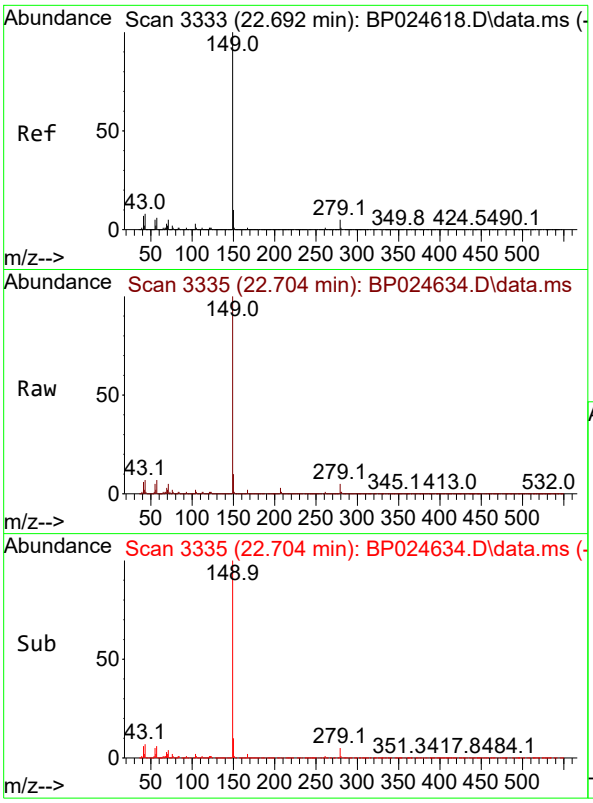


#84
Bis(2-ethylhexyl)phthalate
Concen: 39.885 ng
RT: 21.445 min Scan# 3121
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:149 Resp: 1357083

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.1	33.1
279	5.7	4.6	6.8



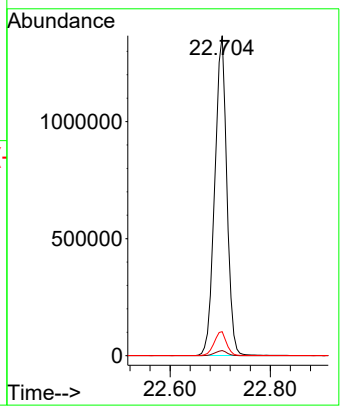


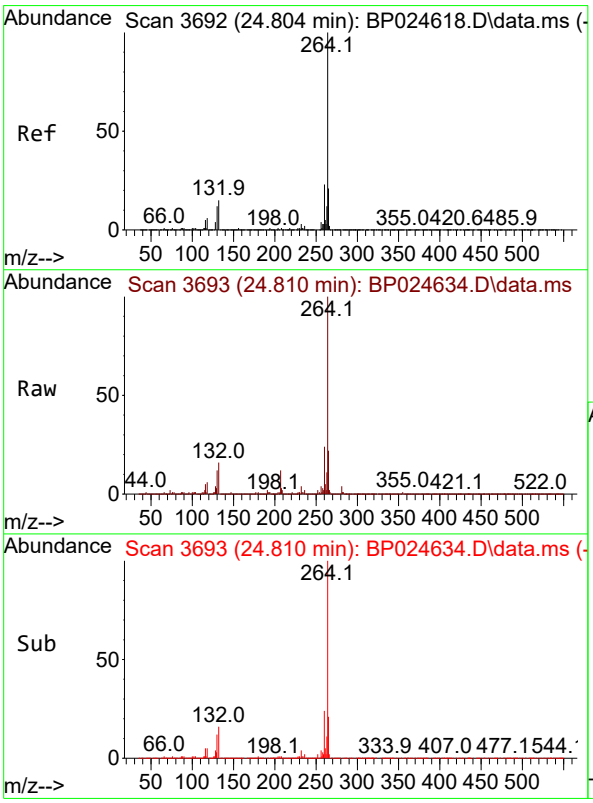
#85
Di-n-octyl phthalate
Concen: 40.907 ng
RT: 22.704 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 2276070

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.7	6.3	9.5

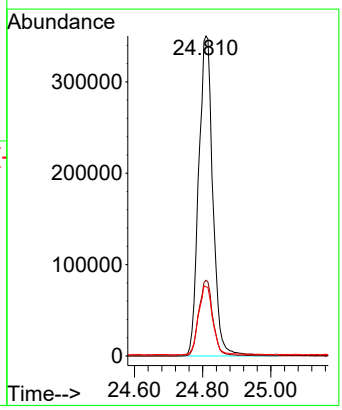


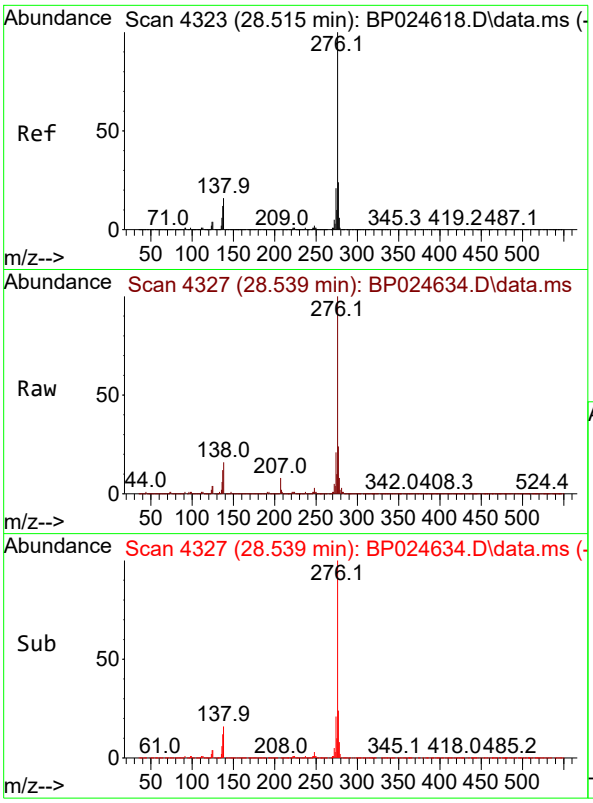


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.810 min Scan# 3693
Delta R.T. 0.006 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:264 Resp: 1013038

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.7	28.1
265	21.6	17.0	25.6



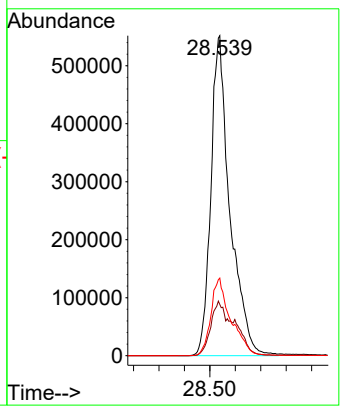


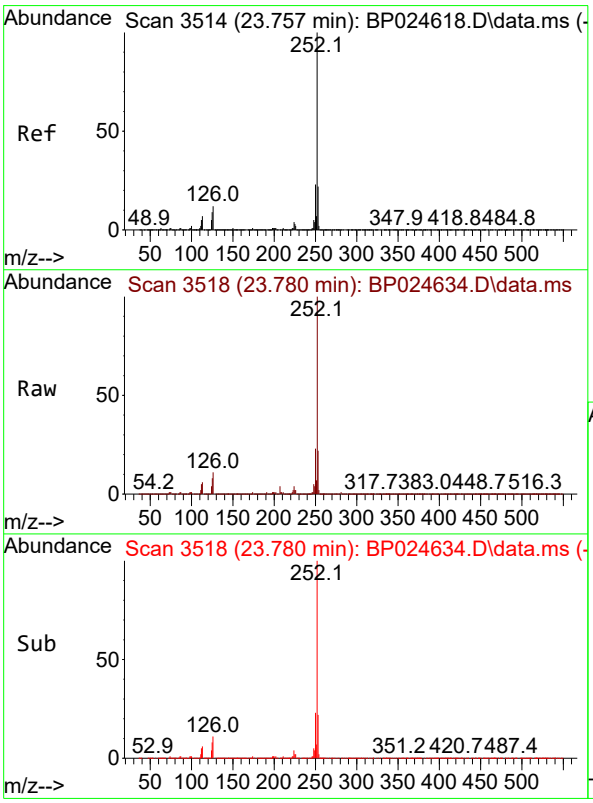
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.803 ng
RT: 28.539 min Scan# 4
Delta R.T. 0.024 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 2869776

Ion	Ratio	Lower	Upper
276	100		
138	15.7	11.2	16.8
277	25.4	15.7	23.5#

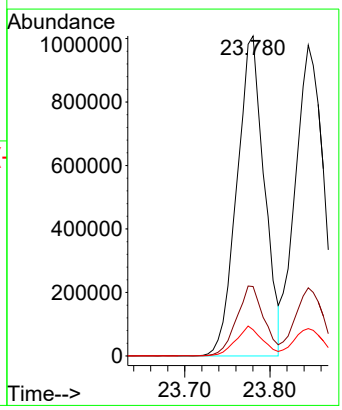


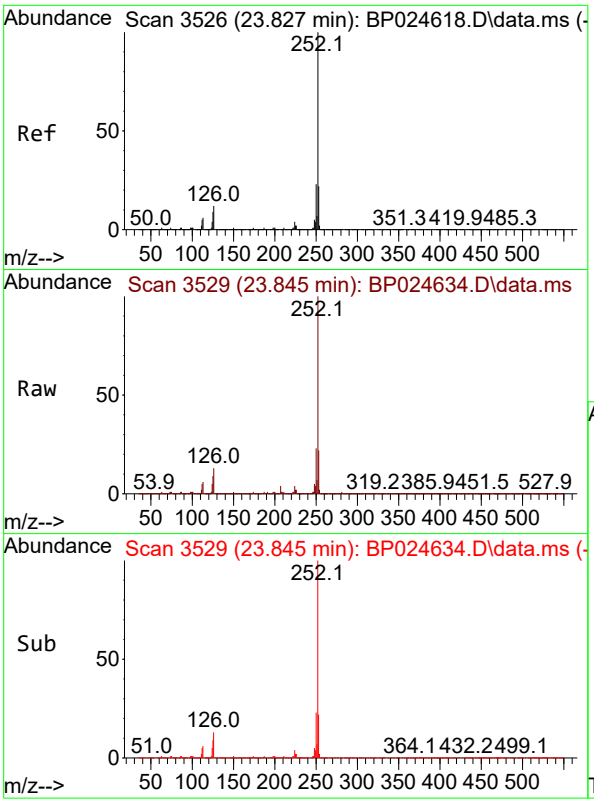


#88
Benzo(b)fluoranthene
Concen: 38.696 ng
RT: 23.780 min Scan# 3518
Delta R.T. 0.024 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:252 Resp: 2243754

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	8.2	7.5	11.3



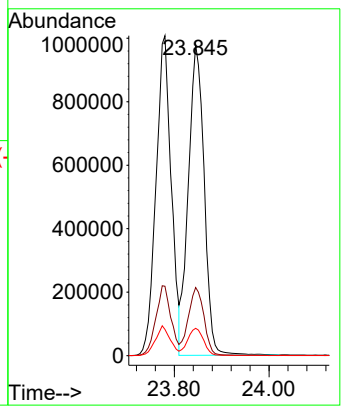


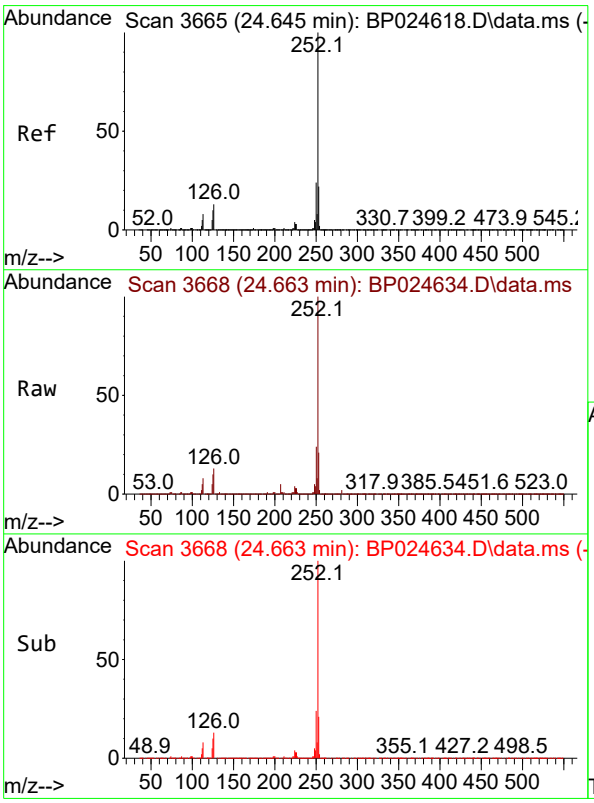
#89
Benzo(k)fluoranthene
Concen: 38.006 ng
RT: 23.845 min Scan# 3
Delta R.T. 0.018 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 2270811

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4
125	8.8	7.0	10.4

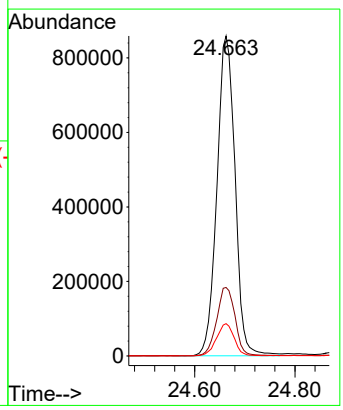


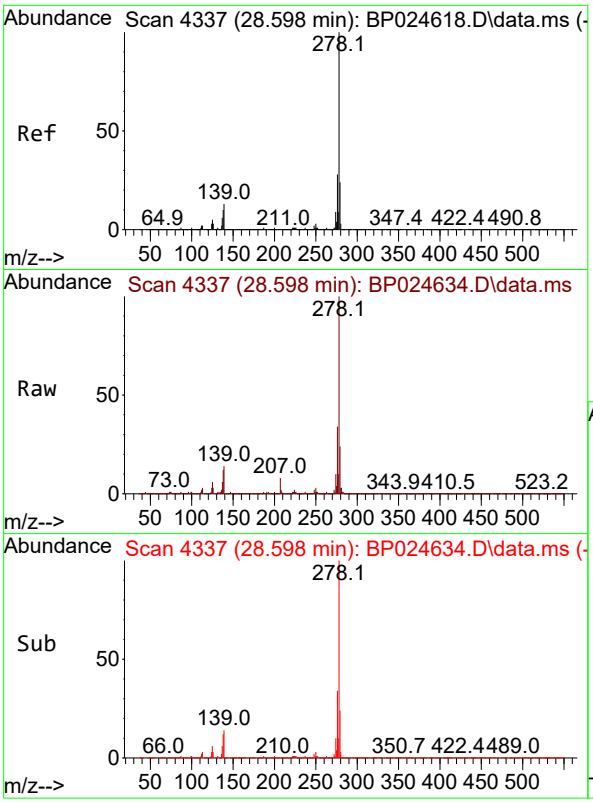


#90
Benzo(a)pyrene
Concen: 38.729 ng
RT: 24.663 min Scan# 3668
Delta R.T. 0.018 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:252 Resp: 2156788

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.7	26.5
125	10.1	8.1	12.1



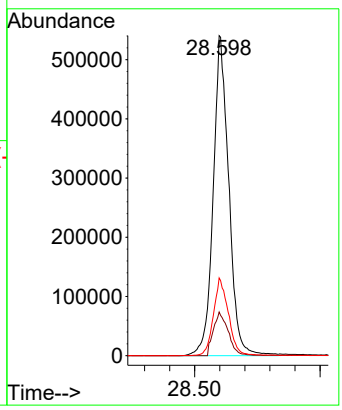


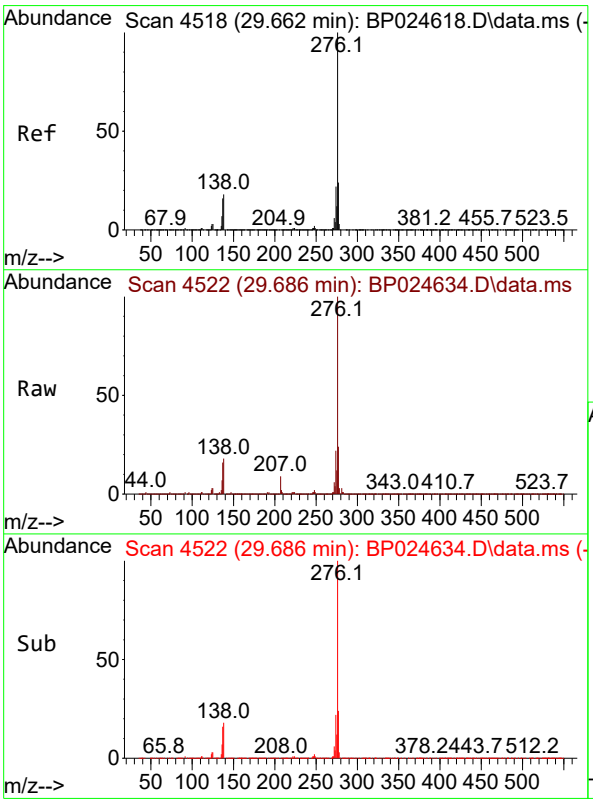
#91
Dibenzo(a,h)anthracene
Concen: 38.815 ng
RT: 28.598 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 2335393

Ion	Ratio	Lower	Upper
278	100		
139	13.7	10.2	15.4
279	24.3	19.0	28.4

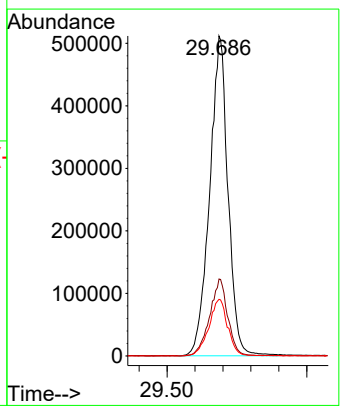




#92
Benzo(g,h,i)perylene
Concen: 38.862 ng
RT: 29.686 min Scan# 4522
Delta R.T. 0.024 min
Lab File: BP024634.D
Acq: 15 May 2025 12:25

Tgt Ion:276 Resp: 2325227

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.0	28.4
138	17.7	14.4	21.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024634.D
Acq On : 15 May 2025 12:25
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 15 13:40:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	0.549	0.486	11.5	104	0.00
3		Pyridine	1.218	1.186	2.6	107	0.00
4		n-Nitrosodimethylamine	0.538	0.503	6.5	105	0.00
5	S	2-Fluorophenol	1.169	1.113	4.8	109	0.00
6		Aniline	1.927	1.809	6.1	102	0.00
7	S	Phenol-d6	1.492	1.373	8.0	101	0.00
8		2-Chlorophenol	1.327	1.296	2.3	107	0.00
9		Benzaldehyde	0.966	0.853	11.7	96	0.00
10	C	Phenol	1.540	1.415	8.1	101	0.00
11		bis(2-Chloroethyl)ether	1.266	1.168	7.7	104	0.00
12		1,3-Dichlorobenzene	1.527	1.422	6.9	107	0.00
13	C	1,4-Dichlorobenzene	1.536	1.458	5.1	107	0.00
14		1,2-Dichlorobenzene	1.497	1.427	4.7	108	0.00
15		Benzyl Alcohol	1.134	1.165	-2.7	109	0.00
16		2,2'-oxybis(1-Chloropropane	1.516	1.451	4.3	107	-0.01
17		2-Methylphenol	1.105	1.112	-0.6	109	0.00
18		Hexachloroethane	0.589	0.548	7.0	107	0.00
19	P	n-Nitroso-di-n-propylamine	1.032	1.054	-2.1	108	0.00
20		3+4-Methylphenols	1.503	1.544	-2.7	110	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	109	0.00
22		Acetophenone	0.500	0.481	3.8	109	0.00
23	S	Nitrobenzene-d5	0.396	0.378	4.5	108	0.00
24		Nitrobenzene	0.348	0.331	4.9	108	0.00
25		Isophorone	0.687	0.662	3.6	108	0.00
26	C	2-Nitrophenol	0.171	0.170	0.6	108	-0.01
27		2,4-Dimethylphenol	0.301	0.296	1.7	108	-0.01
28		bis(2-Chloroethoxy)methane	0.410	0.389	5.1	107	0.00
29	C	2,4-Dichlorophenol	0.292	0.292	0.0	109	0.00
30		1,2,4-Trichlorobenzene	0.329	0.305	7.3	109	0.00
31		Naphthalene	1.036	0.983	5.1	110	0.00
32		Benzoic acid	0.181	0.196	-8.3	112	0.00
33		4-Chloroaniline	0.418	0.425	-1.7	111	0.00
34	C	Hexachlorobutadiene	0.213	0.197	7.5	108	0.00
35		Caprolactam	0.106	0.110	-3.8	110	0.00
36	C	4-Chloro-3-methylphenol	0.356	0.356	0.0	109	0.00
37		2-Methylnaphthalene	0.671	0.646	3.7	110	0.00
38		1-Methylnaphthalene	0.718	0.682	5.0	108	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
40		1,2,4,5-Tetrachlorobenzene	0.581	0.557	4.1	107	0.00
41	P	Hexachlorocyclopentadiene	0.352	0.372	-5.7	110	0.00
42	S	2,4,6-Tribromophenol	0.339	0.334	1.5	110	0.01
43	C	2,4,6-Trichlorophenol	0.376	0.388	-3.2	111	0.00
44		2,4,5-Trichlorophenol	0.419	0.412	1.7	108	0.00
45	S	2-Fluorobiphenyl	1.527	1.446	5.3	107	0.00
46		1,1'-Biphenyl	1.478	1.391	5.9	107	0.00
47		2-Chloronaphthalene	1.127	1.069	5.1	106	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024634.D
Acq On : 15 May 2025 12:25
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 15 13:40:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	0.334	0.336	-0.6	107	0.00
49		Acenaphthylene	1.886	1.811	4.0	106	0.00
50		Dimethylphthalate	1.524	1.433	6.0	105	0.00
51		2,6-Dinitrotoluene	0.322	0.313	2.8	106	0.00
52	C	Acenaphthene	1.084	1.026	5.4	106	0.00
53		3-Nitroaniline	0.329	0.337	-2.4	105	0.00
54	P	2,4-Dinitrophenol	0.169	0.170	-0.6	105	0.00
55		Dibenzofuran	1.730	1.659	4.1	108	0.01
56	P	4-Nitrophenol	0.250	0.260	-4.0	107	0.00
57		2,4-Dinitrotoluene	0.454	0.453	0.2	106	0.00
58		Fluorene	1.410	1.356	3.8	107	0.01
59		2,3,4,6-Tetrachlorophenol	0.388	0.383	1.3	107	0.00
60		Diethylphthalate	1.541	1.477	4.2	108	0.00
61		4-Chlorophenyl-phenylether	0.703	0.672	4.4	109	0.00
62		4-Nitroaniline	0.317	0.338	-6.6	108	0.01
63		Azobenzene	1.318	1.282	2.7	109	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	109	0.00
65		4,6-Dinitro-2-methylphenol	0.129	0.126	2.3	108	0.00
66	c	n-Nitrosodiphenylamine	0.614	0.588	4.2	108	0.00
67		4-Bromophenyl-phenylether	0.236	0.225	4.7	109	0.01
68		Hexachlorobenzene	0.299	0.283	5.4	110	0.01
69		Atrazine	0.225	0.216	4.0	108	0.00
70	C	Pentachlorophenol	0.168	0.180	-7.1	114	0.00
71		Phenanthrene	1.112	1.049	5.7	109	0.00
72		Anthracene	1.119	1.053	5.9	107	0.00
73		Carbazole	1.012	0.991	2.1	108	0.00
74		Di-n-butylphthalate	1.302	1.272	2.3	111	0.00
75	C	Fluoranthene	1.300	1.234	5.1	108	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	107	0.00
77		Benzidine	0.545	0.576	-5.7	110	0.00
78		Pyrene	1.198	1.165	2.8	108	0.00
79	S	Terphenyl-d14	1.166	1.105	5.2	105	0.00
80		Butylbenzylphthalate	0.533	0.531	0.4	108	0.00
81		Benzo(a)anthracene	1.256	1.198	4.6	106	0.00
82		3,3'-Dichlorobenzidine	0.466	0.491	-5.4	110	0.00
83		Chrysene	1.190	1.135	4.6	108	0.00
84		Bis(2-ethylhexyl)phthalate	0.783	0.781	0.3	109	0.00
85	c	Di-n-octyl phthalate	1.281	1.310	-2.3	110	0.01
86	I	Perylene-d12	1.000	1.000	0.0	109	0.00
87		Indeno(1,2,3-cd)pyrene	1.460	1.416	3.0	108	0.02
88		Benzo(b)fluoranthene	1.145	1.107	3.3	109	0.02
89		Benzo(k)fluoranthene	1.180	1.121	5.0	107	0.02
90	C	Benzo(a)pyrene	1.099	1.065	3.1	109	0.02
91		Dibenzo(a,h)anthracene	1.188	1.153	2.9	108	0.00
92		Benzo(g,h,i)perylene	1.181	1.148	2.8	109	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024634.D
Acq On : 15 May 2025 12:25
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 15 13:40:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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_P\Data\BP051525\
Data File : BP024634.D
Acq On : 15 May 2025 12:25
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 15 13:40:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	35.390	11.5	104	0.00
3		Pyridine	40.000	38.953	2.6	107	0.00
4		n-Nitrosodimethylamine	40.000	37.459	6.4	105	0.00
5	S	2-Fluorophenol	80.000	76.128	4.8	109	0.00
6		Aniline	40.000	37.560	6.1	102	0.00
7	S	Phenol-d6	80.000	73.619	8.0	101	0.00
8		2-Chlorophenol	40.000	39.050	2.4	107	0.00
9		Benzaldehyde	40.000	35.324	11.7	96	0.00
10	C	Phenol	40.000	36.754	8.1	101	0.00
11		bis(2-Chloroethyl)ether	40.000	36.919	7.7	104	0.00
12		1,3-Dichlorobenzene	40.000	37.251	6.9	107	0.00
13	C	1,4-Dichlorobenzene	40.000	37.969	5.1	107	0.00
14		1,2-Dichlorobenzene	40.000	38.142	4.6	108	0.00
15		Benzyl Alcohol	40.000	41.086	-2.7	109	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	38.301	4.2	107	-0.01
17		2-Methylphenol	40.000	40.259	-0.6	109	0.00
18		Hexachloroethane	40.000	37.212	7.0	107	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	40.821	-2.1	108	0.00
20		3+4-Methylphenols	40.000	41.091	-2.7	110	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	109	0.00
22		Acetophenone	40.000	38.547	3.6	109	0.00
23	S	Nitrobenzene-d5	80.000	76.396	4.5	108	0.00
24		Nitrobenzene	40.000	38.025	4.9	108	0.00
25		Isophorone	40.000	38.566	3.6	108	0.00
26	C	2-Nitrophenol	40.000	39.922	0.2	108	-0.01
27		2,4-Dimethylphenol	40.000	39.326	1.7	108	-0.01
28		bis(2-Chloroethoxy)methane	40.000	37.932	5.2	107	0.00
29	C	2,4-Dichlorophenol	40.000	39.999	0.0	109	0.00
30		1,2,4-Trichlorobenzene	40.000	37.155	7.1	109	0.00
31		Naphthalene	40.000	37.947	5.1	110	0.00
32		Benzoic acid	40.000	39.103	2.2	112	0.00
33		4-Chloroaniline	40.000	40.638	-1.6	111	0.00
34	C	Hexachlorobutadiene	40.000	36.920	7.7	108	0.00
35		Caprolactam	40.000	41.746	-4.4	110	0.00
36	C	4-Chloro-3-methylphenol	40.000	40.008	-0.0	109	0.00
37		2-Methylnaphthalene	40.000	38.524	3.7	110	0.00
38		1-Methylnaphthalene	40.000	38.002	5.0	108	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	106	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	38.382	4.0	107	0.00
41	P	Hexachlorocyclopentadiene	40.000	42.213	-5.5	110	0.00
42	S	2,4,6-Tribromophenol	80.000	78.910	1.4	110	0.01
43	C	2,4,6-Trichlorophenol	40.000	41.226	-3.1	111	0.00
44		2,4,5-Trichlorophenol	40.000	39.313	1.7	108	0.00
45	S	2-Fluorobiphenyl	80.000	75.785	5.3	107	0.00
46		1,1'-Biphenyl	40.000	37.651	5.9	107	0.00
47		2-Chloronaphthalene	40.000	37.928	5.2	106	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024634.D
Acq On : 15 May 2025 12:25
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 15 13:40:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	40.335	-0.8	107	0.00
49		Acenaphthylene	40.000	38.405	4.0	106	0.00
50		Dimethylphthalate	40.000	37.592	6.0	105	0.00
51		2,6-Dinitrotoluene	40.000	38.913	2.7	106	0.00
52	C	Acenaphthene	40.000	37.838	5.4	106	0.00
53		3-Nitroaniline	40.000	41.006	-2.5	105	0.00
54	P	2,4-Dinitrophenol	40.000	37.204	7.0	105	0.00
55		Dibenzofuran	40.000	38.367	4.1	108	0.01
56	P	4-Nitrophenol	40.000	38.819	3.0	107	0.00
57		2,4-Dinitrotoluene	40.000	39.924	0.2	106	0.00
58		Fluorene	40.000	38.456	3.9	107	0.01
59		2,3,4,6-Tetrachlorophenol	40.000	39.477	1.3	107	0.00
60		Diethylphthalate	40.000	38.341	4.1	108	0.00
61		4-Chlorophenyl-phenylether	40.000	38.222	4.4	109	0.00
62		4-Nitroaniline	40.000	42.533	-6.3	108	0.01
63		Azobenzene	40.000	38.912	2.7	109	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	109	0.00
65		4,6-Dinitro-2-methylphenol	40.000	39.144	2.1	108	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.269	4.3	108	0.00
67		4-Bromophenyl-phenylether	40.000	38.112	4.7	109	0.01
68		Hexachlorobenzene	40.000	37.783	5.5	110	0.01
69		Atrazine	40.000	38.309	4.2	108	0.00
70	C	Pentachlorophenol	40.000	42.824	-7.1	114	0.00
71		Phenanthrene	40.000	37.740	5.6	109	0.00
72		Anthracene	40.000	37.640	5.9	107	0.00
73		Carbazole	40.000	39.163	2.1	108	0.00
74		Di-n-butylphthalate	40.000	39.073	2.3	111	0.00
75	C	Fluoranthene	40.000	37.994	5.0	108	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	107	0.00
77		Benzidine	40.000	42.277	-5.7	110	0.00
78		Pyrene	40.000	38.892	2.8	108	0.00
79	S	Terphenyl-d14	80.000	75.758	5.3	105	0.00
80		Butylbenzylphthalate	40.000	39.878	0.3	108	0.00
81		Benzo(a)anthracene	40.000	38.158	4.6	106	0.00
82		3,3'-Dichlorobenzidine	40.000	42.067	-5.2	110	0.00
83		Chrysene	40.000	38.138	4.7	108	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	39.885	0.3	109	0.00
85	c	Di-n-octyl phthalate	40.000	40.907	-2.3	110	0.01
86	I	Perylene-d12	20.000	20.000	0.0	109	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	38.803	3.0	108	0.02
88		Benzo(b)fluoranthene	40.000	38.696	3.3	109	0.02
89		Benzo(k)fluoranthene	40.000	38.006	5.0	107	0.02
90	C	Benzo(a)pyrene	40.000	38.729	3.2	109	0.02
91		Dibenzo(a,h)anthracene	40.000	38.815	3.0	108	0.00
92		Benzo(g,h,i)perylene	40.000	38.862	2.8	109	0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024634.D
Acq On : 15 May 2025 12:25
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 15 13:40:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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: NOBI03

Lab Code: CHEM Case No.: Q1984 SAS No.: Q1984 SDG No.: Q1984

Instrument ID: BNA_P Calibration Date/Time: 05/15/2025 23:28

Lab File ID: BP024649.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 10:41 15:26

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.169	1.146		-2.0	50.0
Phenol-d6	1.492	1.464		-1.9	50.0
Nitrobenzene-d5	0.396	0.376		-5.1	50.0
Naphthalene	1.036	0.968		-6.6	50.0
2-Methylnaphthalene	0.671	0.628		-6.4	50.0
2-Fluorobiphenyl	1.527	1.489		-2.5	50.0
Acenaphthylene	1.886	1.790		-5.1	50.0
Acenaphthene	1.084	1.023		-5.6	50.0
Fluorene	1.410	1.314		-6.8	50.0
2,4,6-Tribromophenol	0.339	0.323		-4.7	50.0
Phenanthrene	1.112	1.046		-6.0	50.0
Anthracene	1.119	1.081		-3.4	50.0
Fluoranthene	1.300	1.169		-10.1	50.0
Pyrene	1.198	1.269		5.9	50.0
Terphenyl-d14	1.166	1.221		4.7	50.0
Benzo(a)anthracene	1.256	1.206		-4.0	50.0
Chrysene	1.190	1.127		-5.3	50.0
Benzo(b)fluoranthene	1.145	1.099		-4.0	50.0
Benzo(k)fluoranthene	1.180	1.085		-8.1	50.0
Benzo(a)pyrene	1.099	1.065		-3.1	50.0
Indeno(1,2,3-cd)pyrene	1.460	1.417		-2.9	50.0
Dibenzo(a,h)anthracene	1.188	1.163		-2.1	50.0
Benzo(g,h,i)perylene	1.181	1.127		-4.6	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024649.D
Acq On : 15 May 2025 23:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: May 16 01:19:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.663	152	232160	20.000	ng	0.00
21) Naphthalene-d8	10.434	136	983318	20.000	ng	0.00
39) Acenaphthene-d10	14.298	164	587551	20.000	ng	0.00
64) Phenanthrene-d10	17.092	188	1091563	20.000	ng	0.00
76) Chrysene-d12	21.527	240	1022023	20.000	ng	0.00
86) Perylene-d12	24.804	264	1190012	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	1063870	78.377	ng	0.00
7) Phenol-d6	6.858	99	1359524	78.478	ng	0.00
23) Nitrobenzene-d5	8.816	82	1478111	75.951	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	759124	76.212	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	3499303	78.028	ng	0.00
79) Terphenyl-d14	19.822	244	4990002	83.720	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.228	88	216790	34.013	ng	99
3) Pyridine	3.622	79	504248	35.679	ng	98
4) n-Nitrosodimethylamine	3.534	42	222294	35.627	ng	98
6) Aniline	7.005	93	872747	39.020	ng	99
8) 2-Chlorophenol	7.234	128	612652	39.759	ng	99
9) Benzaldehyde	6.816	77	428972	38.252	ng	100
10) Phenol	6.881	94	698793	39.082	ng	99
11) bis(2-Chloroethyl)ether	7.099	93	543554	36.996	ng	99
12) 1,3-Dichlorobenzene	7.552	146	668602	37.714	ng	99
13) 1,4-Dichlorobenzene	7.699	146	676768	37.956	ng	99
14) 1,2-Dichlorobenzene	8.010	146	649038	37.356	ng	99
15) Benzyl Alcohol	7.905	79	539702	40.996	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.181	45	640858	36.423	ng	99
17) 2-Methylphenol	8.116	107	500376	39.018	ng	98
18) Hexachloroethane	8.728	117	242610	35.507	ng	98
19) n-Nitroso-di-n-propyla...	8.469	70	442058	36.889	ng	97
20) 3+4-Methylphenols	8.440	107	681117	39.045	ng	99
22) Acetophenone	8.481	105	920371	37.470	ng	98
24) Nitrobenzene	8.857	77	645688	37.701	ng	96
25) Isophorone	9.375	82	1269006	37.591	ng	100
26) 2-Nitrophenol	9.557	139	355400	42.349	ng	99
27) 2,4-Dimethylphenol	9.628	122	582440	39.364	ng	99
28) bis(2-Chloroethoxy)met...	9.851	93	754573	37.413	ng	99
29) 2,4-Dichlorophenol	10.099	162	575595	40.144	ng	97
30) 1,2,4-Trichlorobenzene	10.299	180	616726	38.169	ng	97
31) Naphthalene	10.487	128	1903619	37.358	ng	100
32) Benzoic acid	9.810	122	407909	40.907	ng	96
33) 4-Chloroaniline	10.599	127	814535	39.613	ng	99
34) Hexachlorobutadiene	10.763	225	393890	37.631	ng	98
35) Caprolactam	11.404	113	200581	38.665	ng	99
36) 4-Chloro-3-methylphenol	11.740	107	652057	37.291	ng	98
37) 2-Methylnaphthalene	12.098	142	1234376	37.411	ng	99
38) 1-Methylnaphthalene	12.322	142	1293251	36.632	ng	99
40) 1,2,4,5-Tetrachloroben...	12.469	216	688659	40.363	ng	99
41) Hexachlorocyclopentadiene	12.445	237	275814	26.660	ng	96
43) 2,4,6-Trichlorophenol	12.722	196	476529	43.120	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024649.D
Acq On : 15 May 2025 23:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: May 16 01:19:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

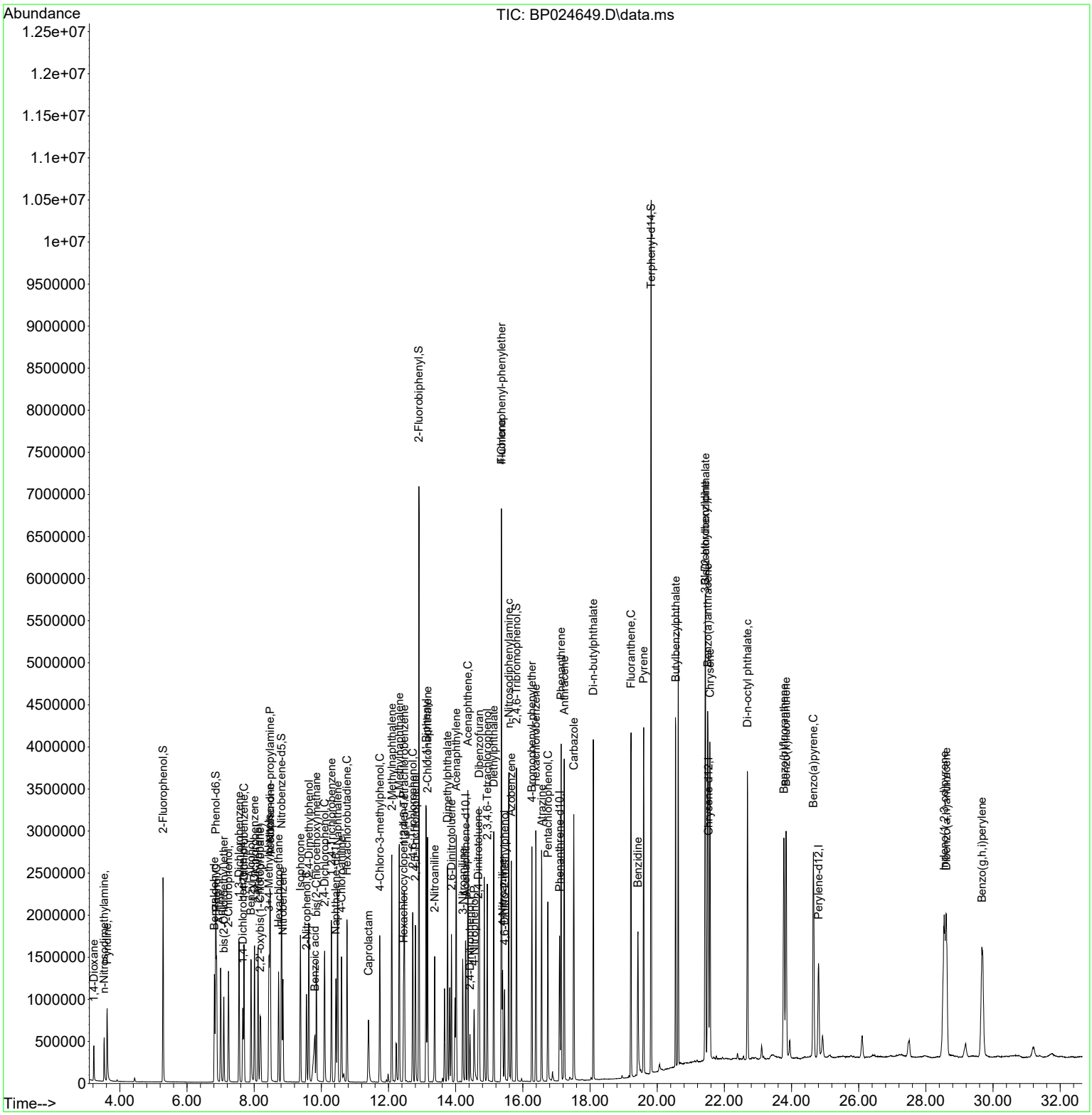
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	511817	41.607	ng		96
46) 1,1'-Biphenyl	13.122	154	1712931	39.444	ng		100
47) 2-Chloronaphthalene	13.163	162	1309148	39.538	ng		100
48) 2-Nitroaniline	13.375	65	394433	40.236	ng		99
49) Acenaphthylene	14.016	152	2103173	37.956	ng		100
50) Dimethylphthalate	13.757	163	1670038	37.291	ng		100
51) 2,6-Dinitrotoluene	13.875	165	361561	38.228	ng		99
52) Acenaphthene	14.363	154	1201800	37.727	ng		100
53) 3-Nitroaniline	14.210	138	386417	40.013	ng		99
54) 2,4-Dinitrophenol	14.428	184	144005	28.615	ng		97
55) Dibenzofuran	14.704	168	1916472	37.718	ng		98
56) 4-Nitrophenol	14.551	139	297049	37.883	ng		99
57) 2,4-Dinitrotoluene	14.675	165	517837	38.836	ng		99
58) Fluorene	15.363	166	1544487	37.279	ng		100
59) 2,3,4,6-Tetrachlorophenol	14.939	232	441228	38.666	ng		98
60) Diethylphthalate	15.134	149	1705615	37.682	ng		99
61) 4-Chlorophenyl-phenyle...	15.363	204	781926	37.844	ng		99
62) 4-Nitroaniline	15.398	138	382445	41.014	ng		98
63) Azobenzene	15.657	77	1436894	37.109	ng		96
65) 4,6-Dinitro-2-methylph...	15.457	198	221744	31.450	ng		98
66) n-Nitrosodiphenylamine	15.581	169	1337443	39.890	ng		99
67) 4-Bromophenyl-phenylether	16.269	248	529175	41.141	ng		98
68) Hexachlorobenzene	16.386	284	642713	39.324	ng		100
69) Atrazine	16.563	200	490937	39.955	ng		99
70) Pentachlorophenol	16.745	266	409473	44.631	ng		97
71) Phenanthrene	17.139	178	2282446	37.614	ng		100
72) Anthracene	17.233	178	2359777	38.652	ng		100
73) Carbazole	17.516	167	2120193	38.369	ng		99
74) Di-n-butylphthalate	18.098	149	2912690	40.985	ng		99
75) Fluoranthene	19.222	202	2551520	35.971	ng		100
77) Benzidine	19.427	184	1243029	44.656	ng		100
78) Pyrene	19.598	202	2593846	42.357	ng		100
80) Butylbenzylphthalate	20.551	149	1248972	45.859	ng		94
81) Benzo(a)anthracene	21.504	228	2464464	38.403	ng		99
82) 3,3'-Dichlorobenzidine	21.427	252	1038409	43.565	ng		99
83) Chrysene	21.569	228	2303429	37.864	ng		99
84) Bis(2-ethylhexyl)phtha...	21.439	149	1841778	46.010	ng		100
85) Di-n-octyl phthalate	22.686	149	3017546	46.097	ng		99
87) Indeno(1,2,3-cd)pyrene	28.545	276	3373604	38.832	ng	#	92
88) Benzo(b)fluoranthene	23.774	252	2616788	38.417	ng		99
89) Benzo(k)fluoranthene	23.839	252	2583044	36.802	ng		100
90) Benzo(a)pyrene	24.651	252	2533975	38.735	ng		100
91) Dibenzo(a,h)anthracene	28.609	278	2767391	39.155	ng		99
92) Benzo(g,h,i)perylene	29.668	276	2681407	38.150	ng		99

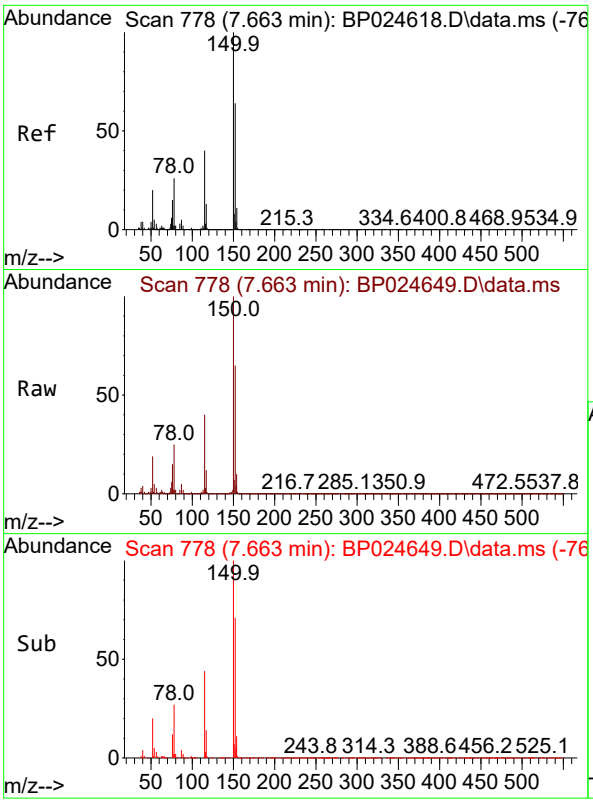
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024649.D
Acq On : 15 May 2025 23:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: May 16 01:19:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



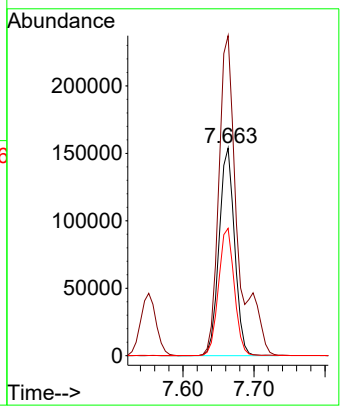


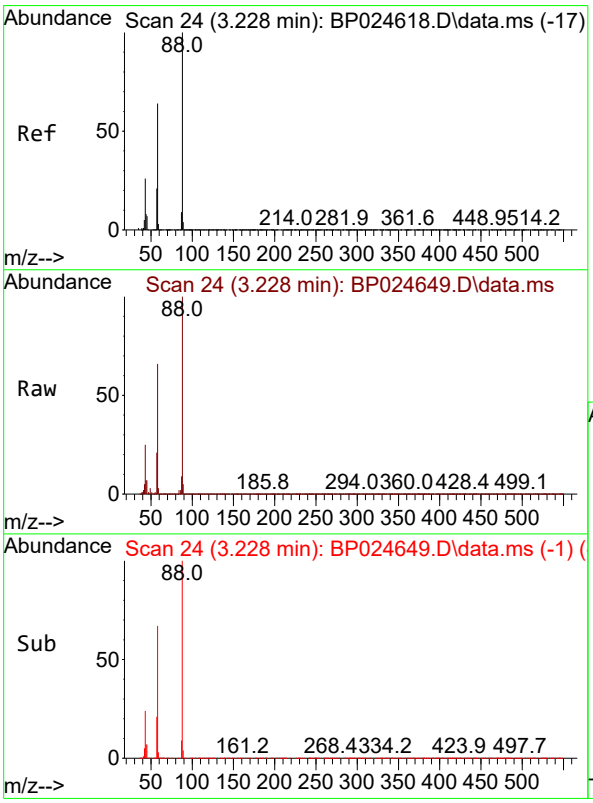
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.663 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 232160

Ion	Ratio	Lower	Upper
152	100		
150	154.1	125.9	188.9
115	61.3	50.1	75.1

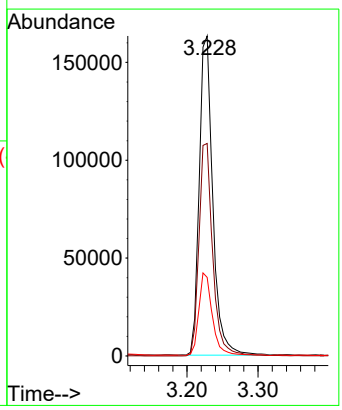


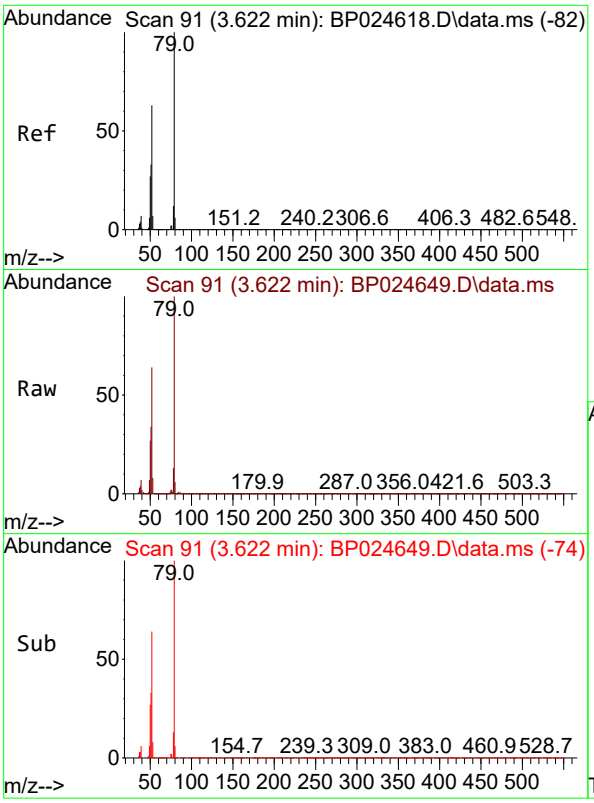


#2
1,4-Dioxane
Concen: 34.013 ng
RT: 3.228 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion: 88 Resp: 216790

Ion	Ratio	Lower	Upper
88	100		
58	67.7	54.0	81.0
43	25.5	21.4	32.0



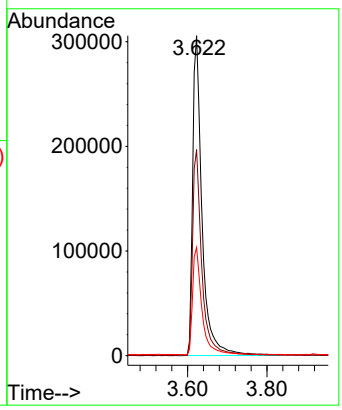


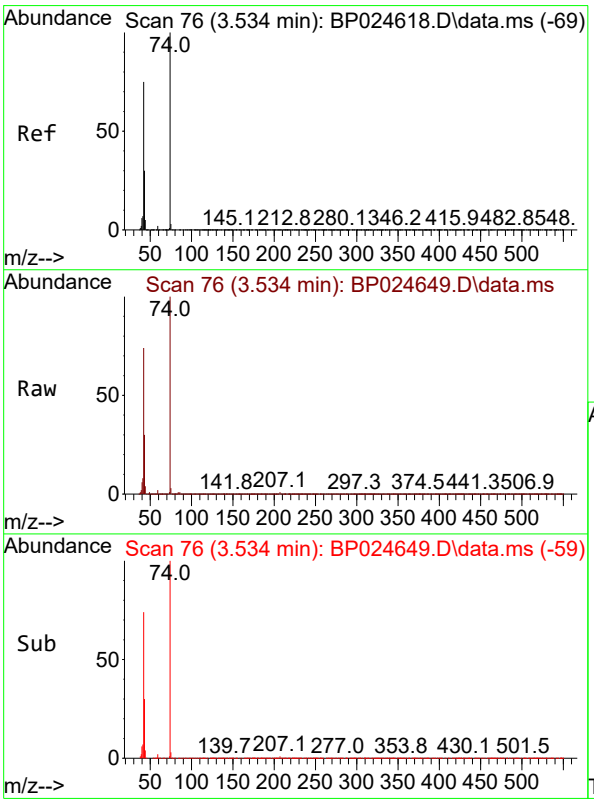
#3
Pyridine
Concen: 35.679 ng
RT: 3.622 min Scan# 91
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 504248

Ion	Ratio	Lower	Upper
79	100		
52	64.4	50.2	75.2
51	33.8	26.8	40.2

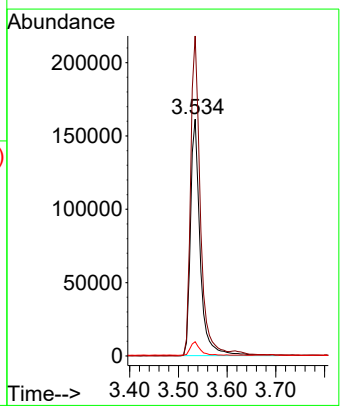


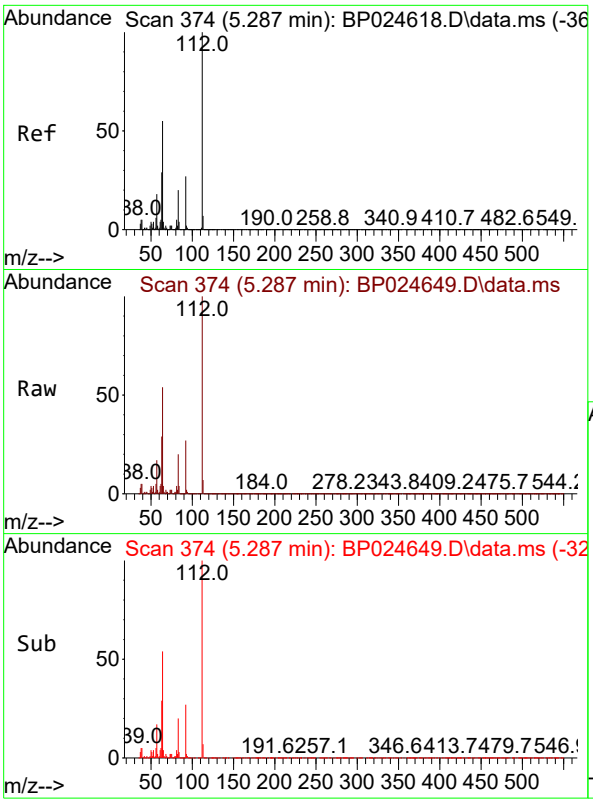


#4
n-Nitrosodimethylamine
Concen: 35.627 ng
RT: 3.534 min Scan# 76
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion: 42 Resp: 222294

Ion	Ratio	Lower	Upper
42	100		
74	135.1	106.2	159.2
44	6.0	5.4	8.2



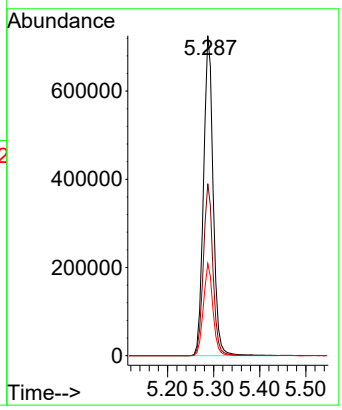


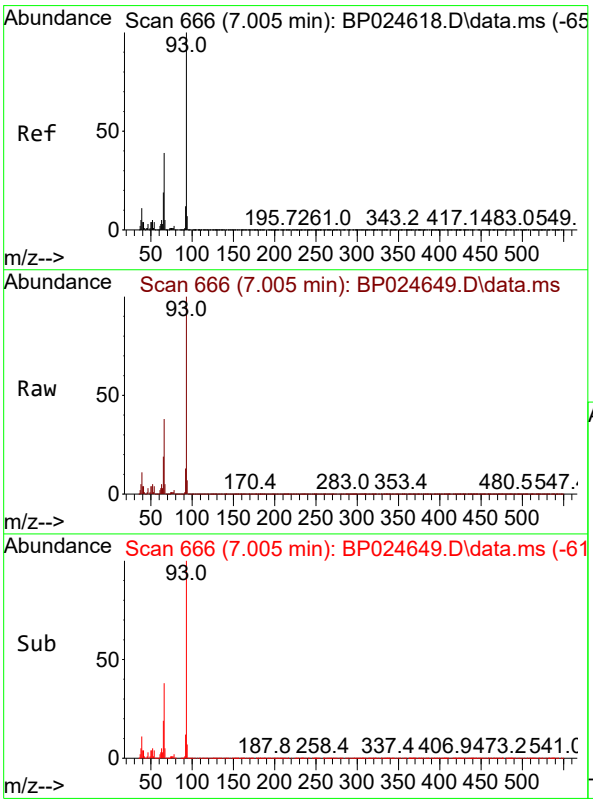
#5
2-Fluorophenol
Concen: 78.377 ng
RT: 5.287 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:112 Resp: 1063870

Ion	Ratio	Lower	Upper
112	100		
64	53.7	44.1	66.1
63	28.8	23.5	35.3

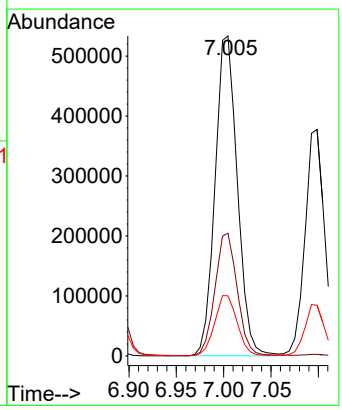


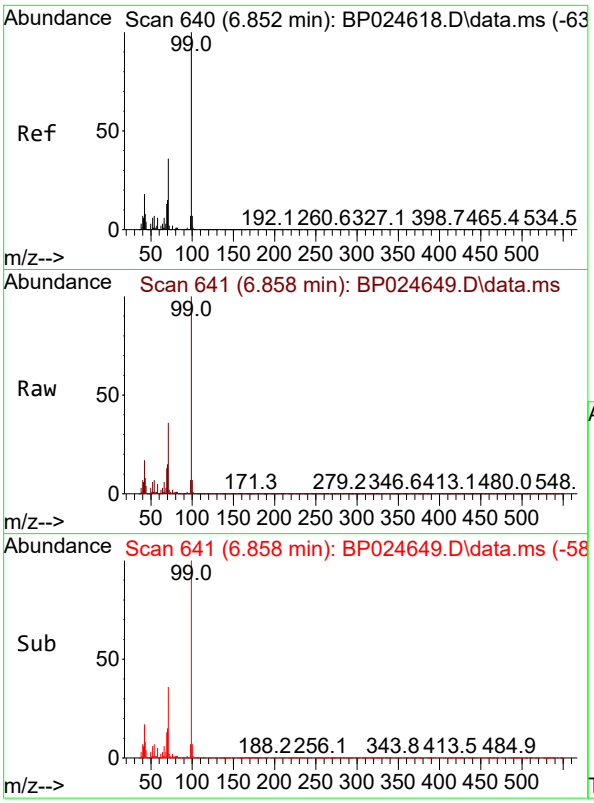


#6
Aniline
Concen: 39.020 ng
RT: 7.005 min Scan# 666
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion: 93 Resp: 872747

Ion	Ratio	Lower	Upper
93	100		
66	38.4	31.0	46.6
65	18.8	15.5	23.3



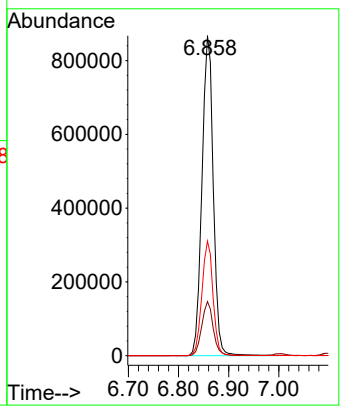


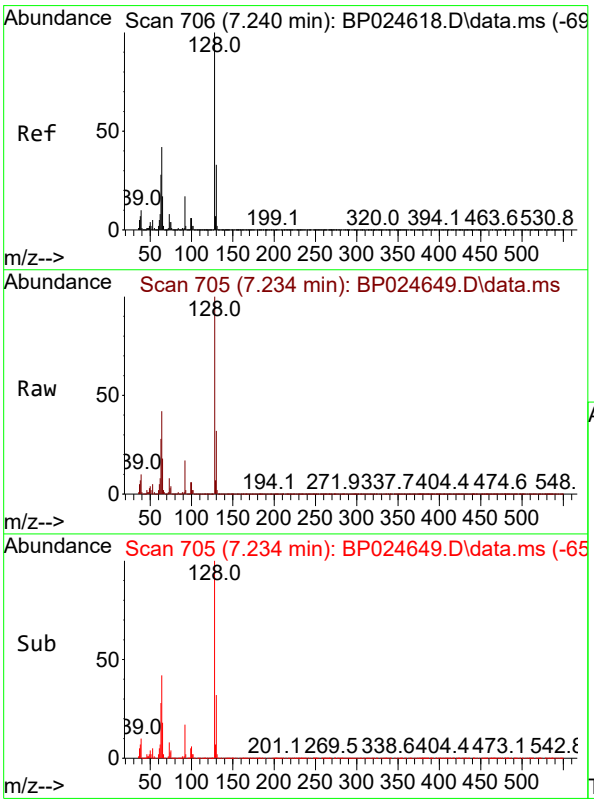
#7
Phenol-d6
Concen: 78.478 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 99 Resp: 1359524

Ion	Ratio	Lower	Upper
99	100		
42	16.9	14.4	21.6
71	35.8	29.2	43.8

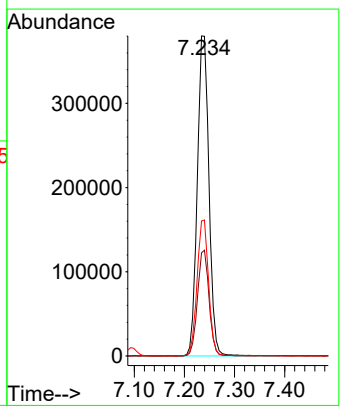


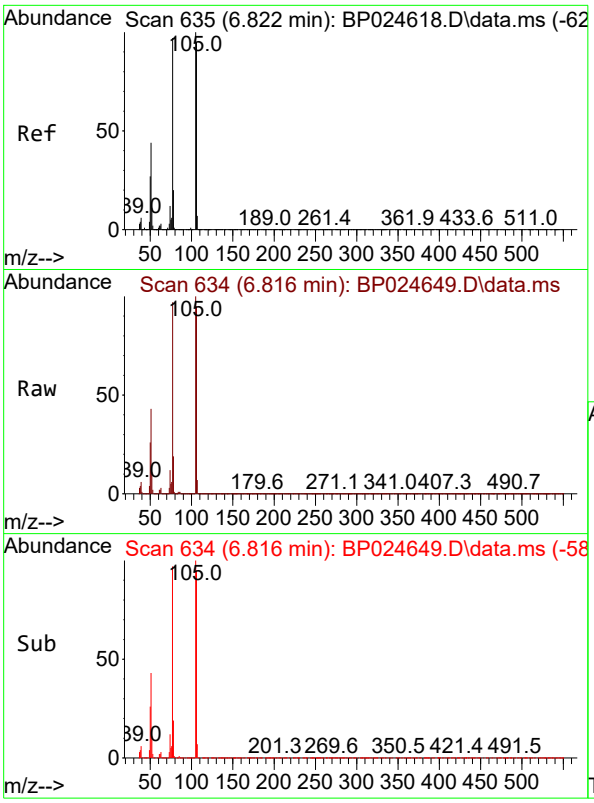


#8
2-Chlorophenol
Concen: 39.759 ng
RT: 7.234 min Scan# 705
Delta R.T. -0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:128 Resp: 612652

Ion	Ratio	Lower	Upper
128	100		
130	32.3	13.0	53.0
64	42.2	22.3	62.3



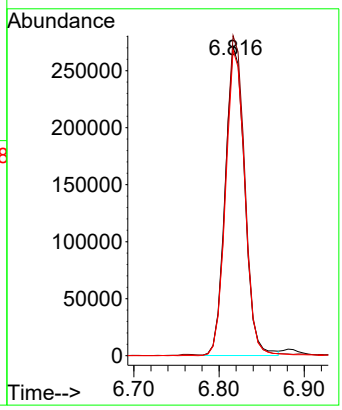


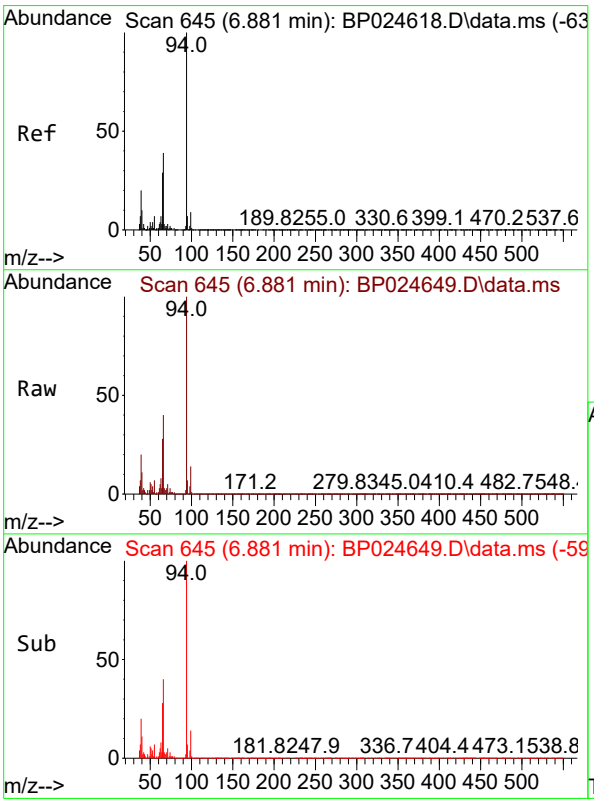
#9
Benzaldehyde
Concen: 38.252 ng
RT: 6.816 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 428972

Ion	Ratio	Lower	Upper
77	100		
105	103.5	83.3	123.3
106	98.8	78.0	118.0

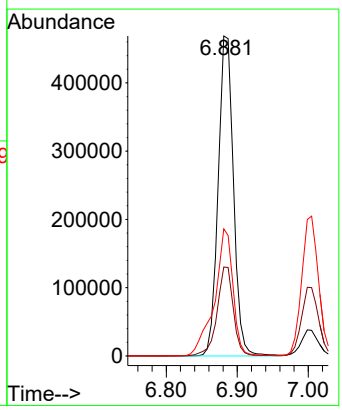


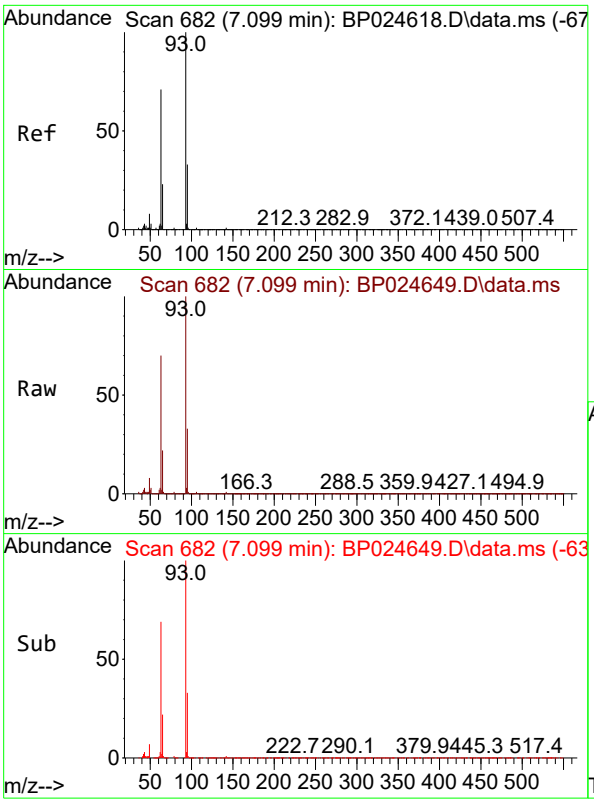


#10
Phenol
Concen: 39.082 ng
RT: 6.881 min Scan# 645
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion: 94 Resp: 698793

Ion	Ratio	Lower	Upper
94	100		
65	27.8	8.7	48.7
66	39.7	19.4	59.4



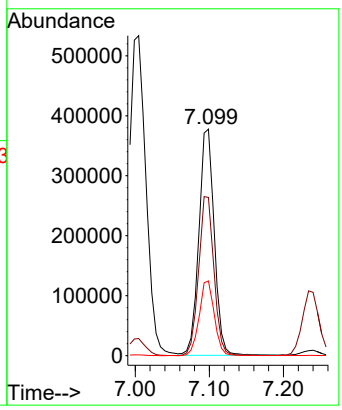


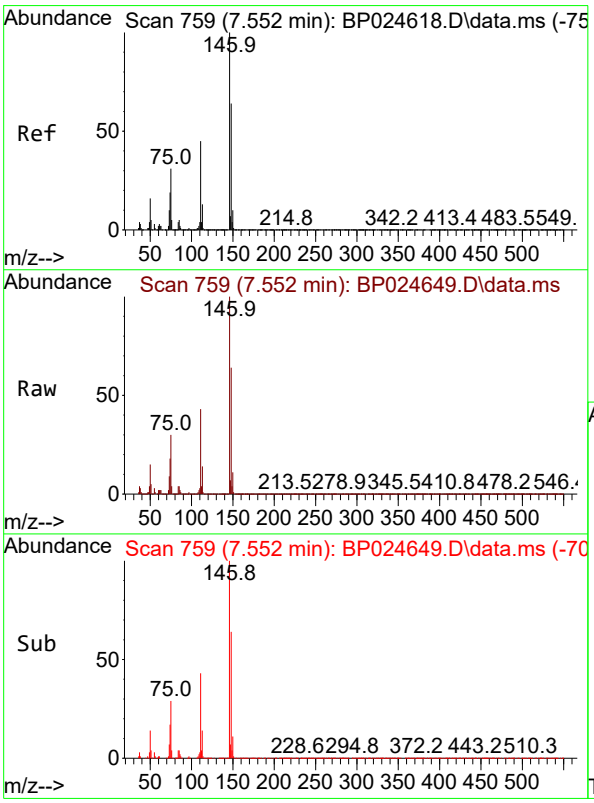
#11
bis(2-Chloroethyl)ether
Concen: 36.996 ng
RT: 7.099 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 93 Resp: 543554

Ion	Ratio	Lower	Upper
93	100		
63	69.9	50.6	90.6
95	33.0	12.9	52.9

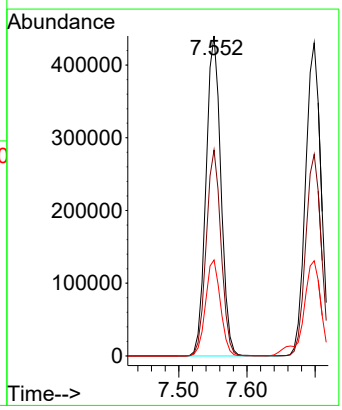


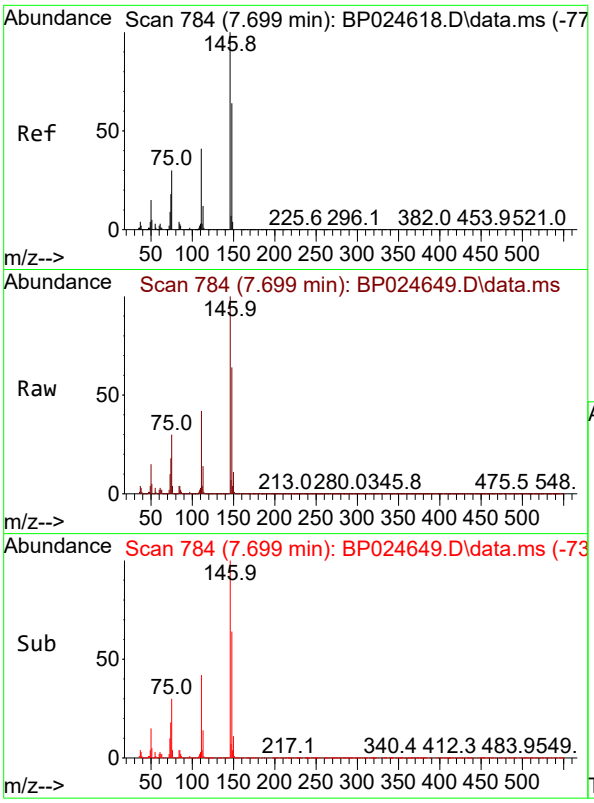


#12
1,3-Dichlorobenzene
Concen: 37.714 ng
RT: 7.552 min Scan# 759
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:146 Resp: 668602

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.4	77.2
75	30.0	25.2	37.8



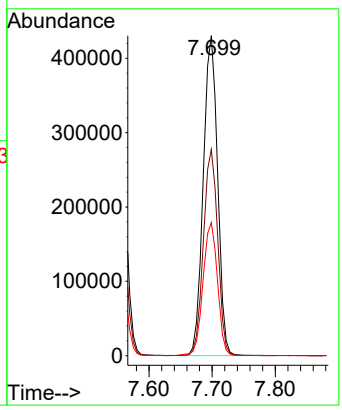


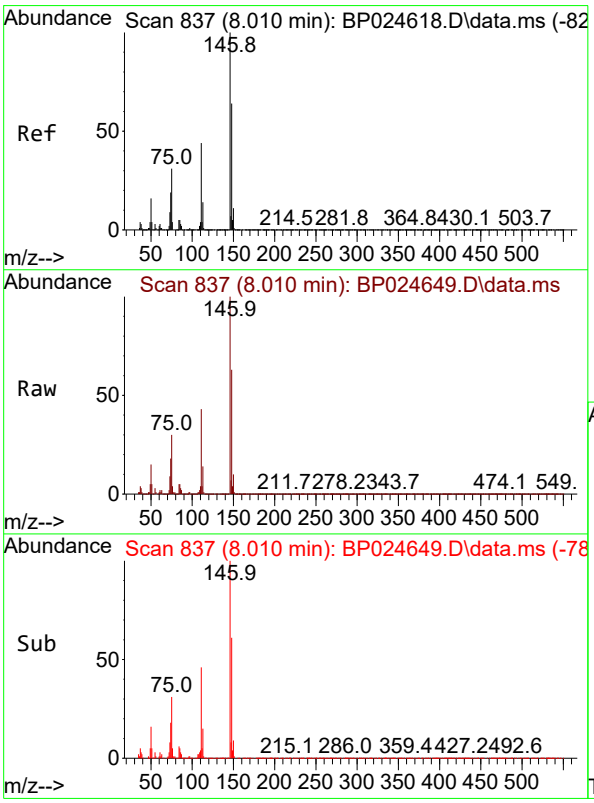
#13
1,4-Dichlorobenzene
Concen: 37.956 ng
RT: 7.699 min Scan# 7
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:146 Resp: 676768

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.0	76.6
111	41.6	33.0	49.6

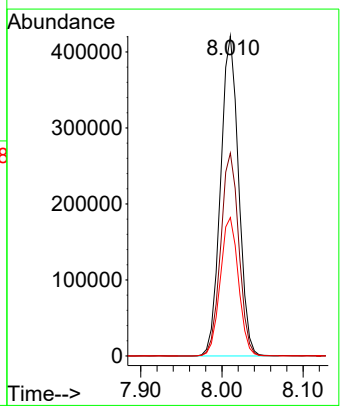


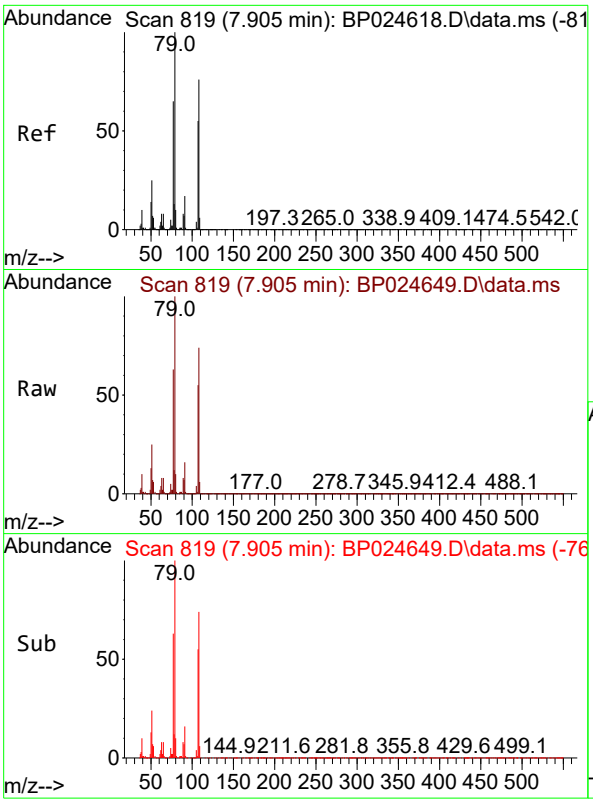


#14
1,2-Dichlorobenzene
Concen: 37.356 ng
RT: 8.010 min Scan# 837
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:146 Resp: 649038

Ion	Ratio	Lower	Upper
146	100		
148	63.4	51.0	76.4
111	43.3	35.2	52.8



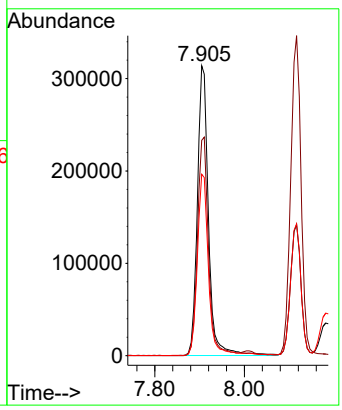


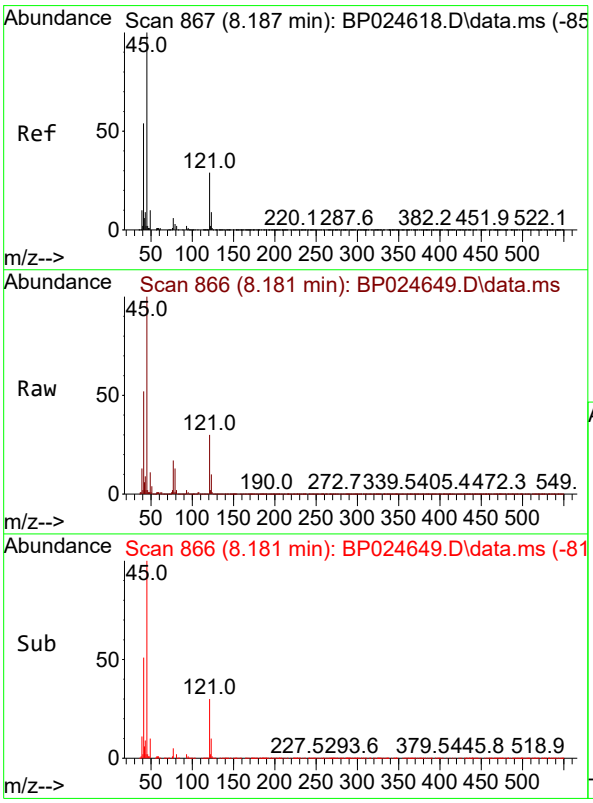
#15
Benzyl Alcohol
Concen: 40.996 ng
RT: 7.905 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 539702

Ion	Ratio	Lower	Upper
79	100		
108	74.3	60.8	91.2
77	62.6	51.9	77.9

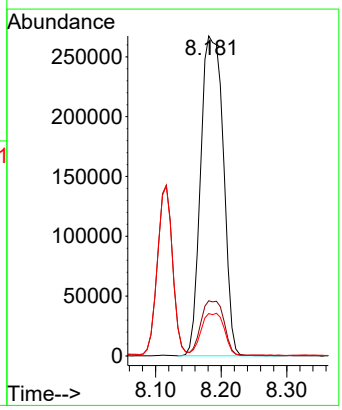


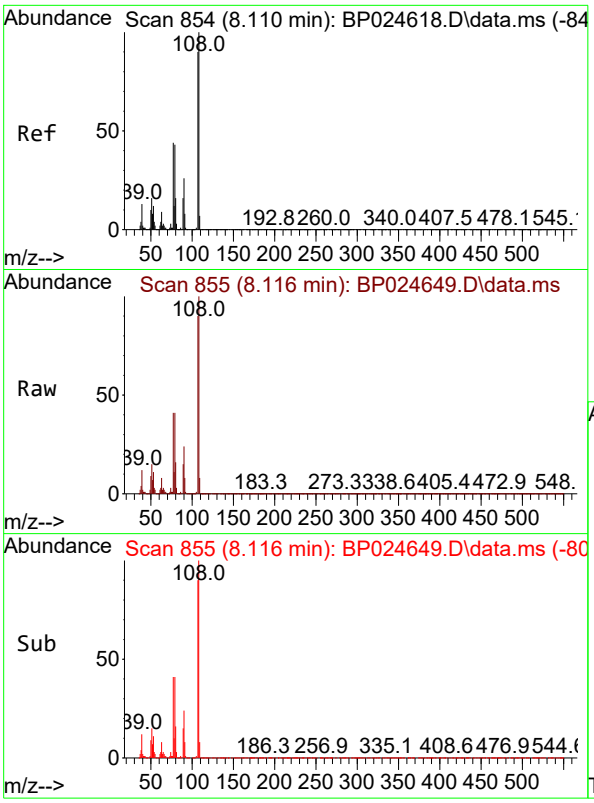


#16
2,2'-oxybis(1-Chloropropane)
Concen: 36.423 ng
RT: 8.181 min Scan# 866
Delta R.T. -0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion: 45 Resp: 640858

Ion	Ratio	Lower	Upper
45	100		
77	17.3	0.0	37.7
79	13.2	0.0	34.0



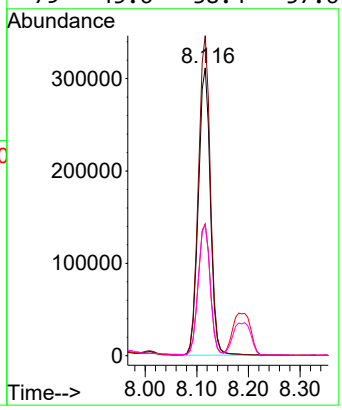


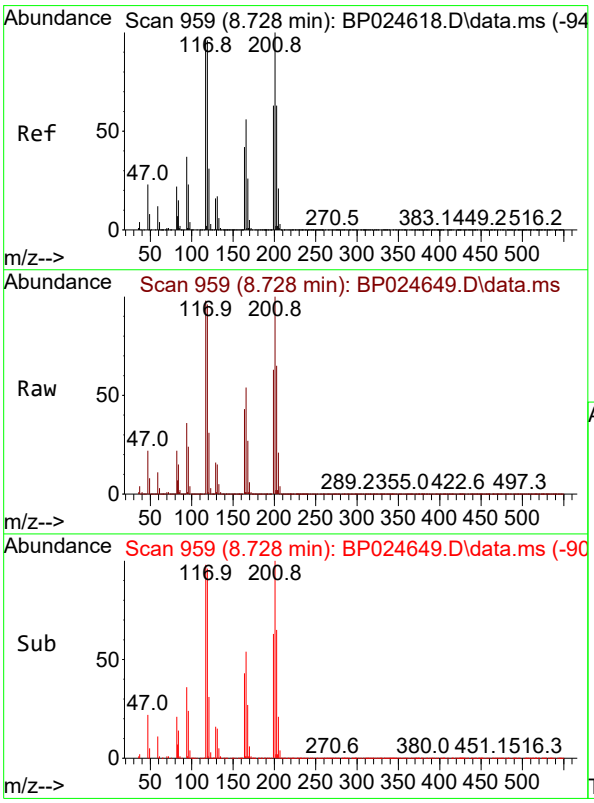
#17
2-Methylphenol
Concen: 39.018 ng
RT: 8.116 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:107 Resp: 500376

Ion	Ratio	Lower	Upper
107	100		
108	111.1	88.9	133.3
77	45.8	39.0	58.6
79	45.6	38.4	57.6

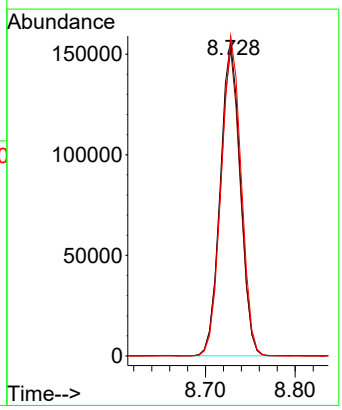


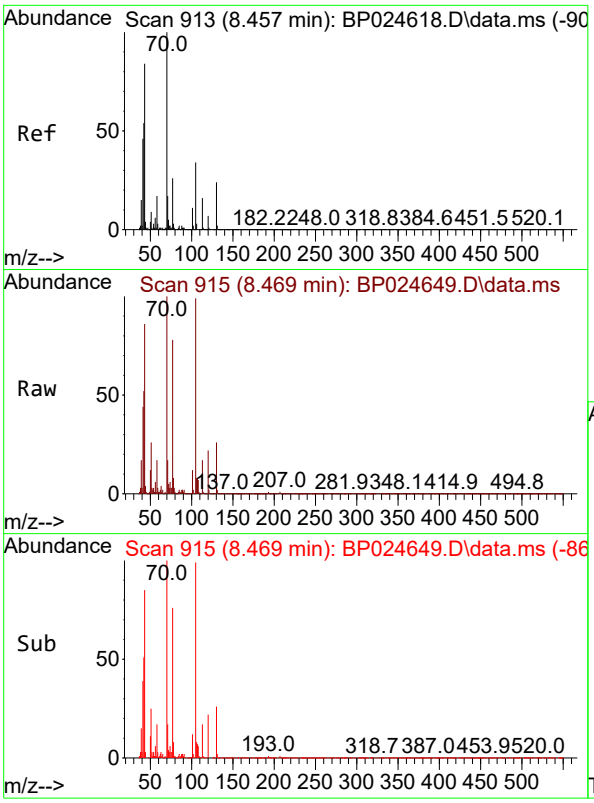


#18
Hexachloroethane
Concen: 35.507 ng
RT: 8.728 min Scan# 959
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:117 Resp: 242610

Ion	Ratio	Lower	Upper
117	100		
119	97.5	79.4	119.0
201	101.8	82.7	124.1



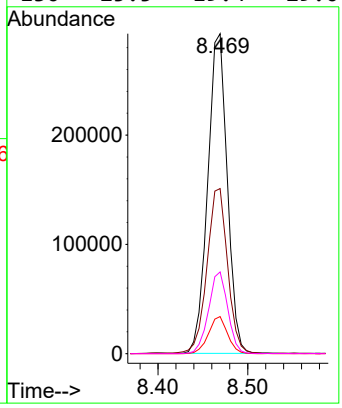


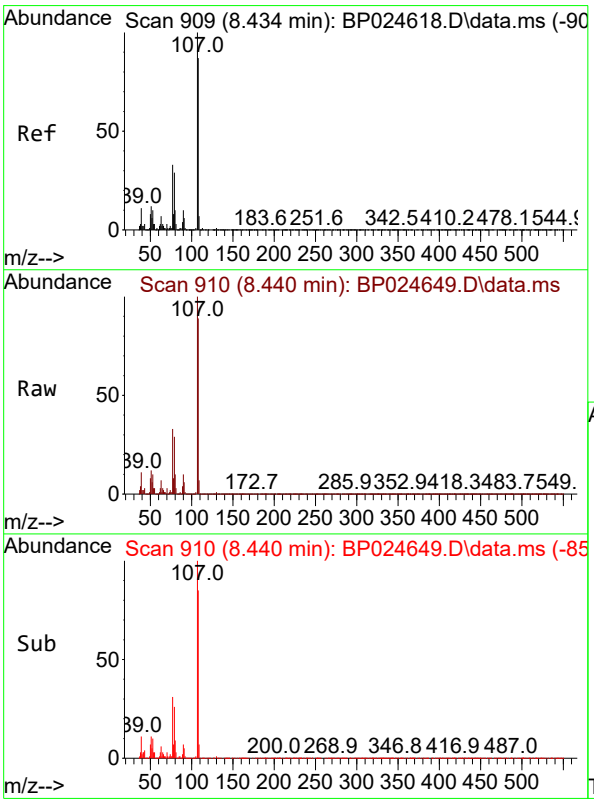
#19
n-Nitroso-di-n-propylamine
Concen: 36.889 ng
RT: 8.469 min Scan# 91
Delta R.T. 0.012 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 70 Resp: 442058

Ion	Ratio	Lower	Upper
70	100		
42	51.6	43.0	64.6
101	11.6	8.7	13.1
130	25.5	19.4	29.0

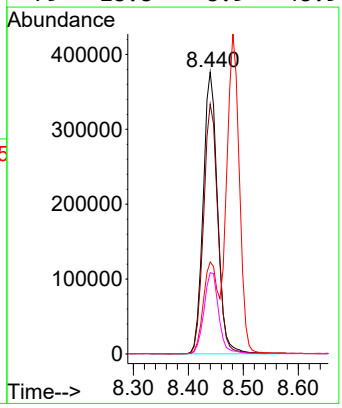


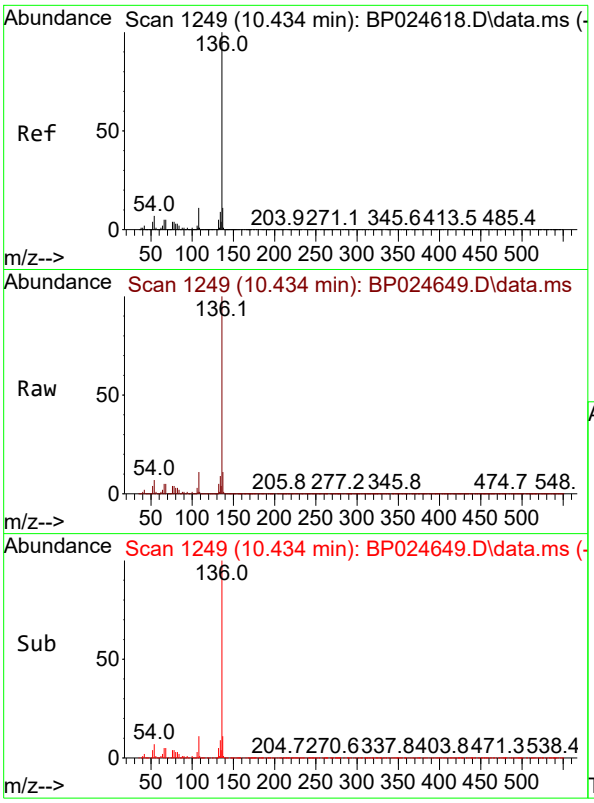


#20
3+4-Methylphenols
Concen: 39.045 ng
RT: 8.440 min Scan# 910
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:107 Resp: 681117

Ion	Ratio	Lower	Upper
107	100		
108	88.6	66.7	106.7
77	32.6	13.1	53.1
79	28.8	8.9	48.9



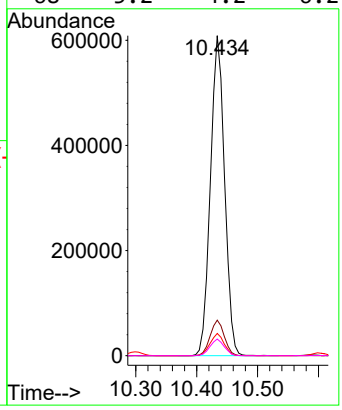


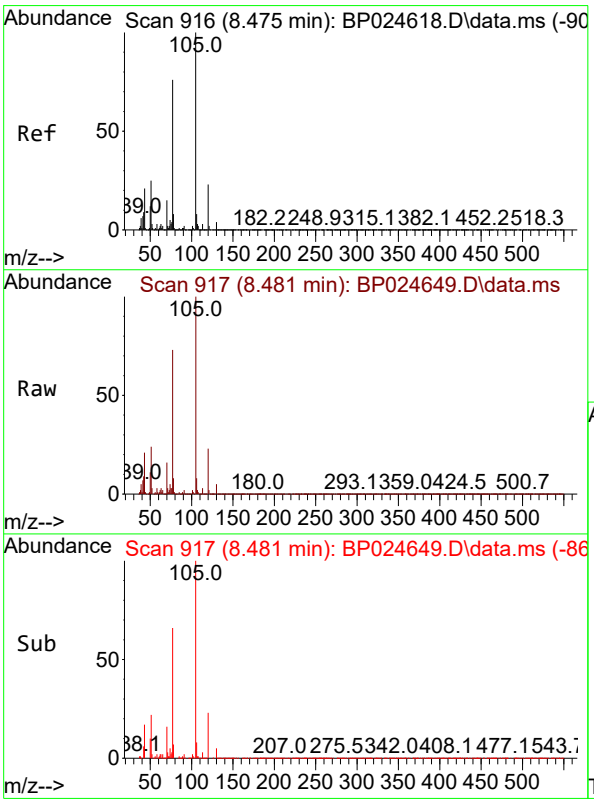
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:136 Resp: 983318

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.8	13.2
54	7.0	5.5	8.3
68	5.2	4.2	6.2

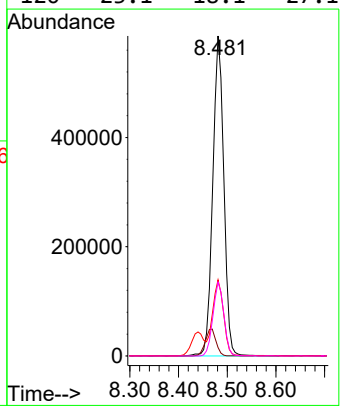


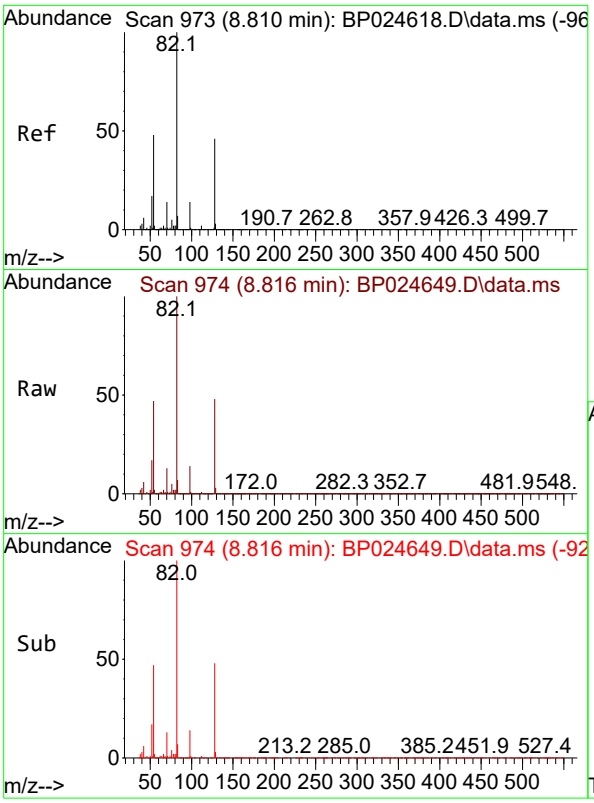


#22
Acetophenone
Concen: 37.470 ng
RT: 8.481 min Scan# 917
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:105 Resp: 920371

Ion	Ratio	Lower	Upper
105	100		
71	2.7	2.0	3.0
51	23.8	20.4	30.6
120	23.1	18.1	27.1



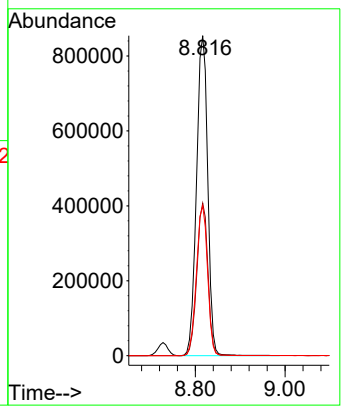


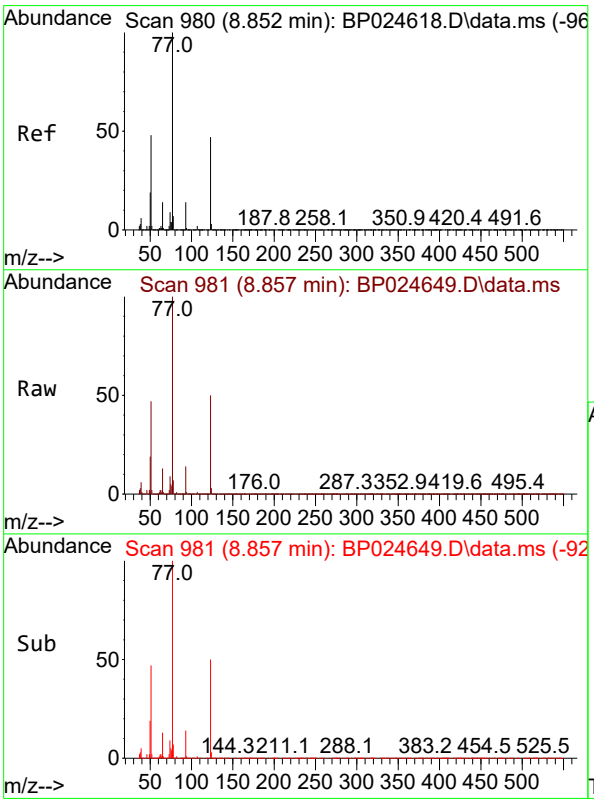
#23
Nitrobenzene-d5
Concen: 75.951 ng
RT: 8.816 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 1478111

Ion	Ratio	Lower	Upper
82	100		
128	47.6	37.0	55.4
54	46.8	38.7	58.1

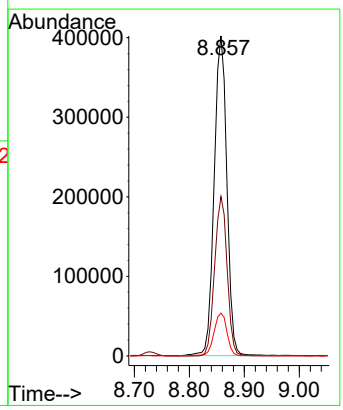


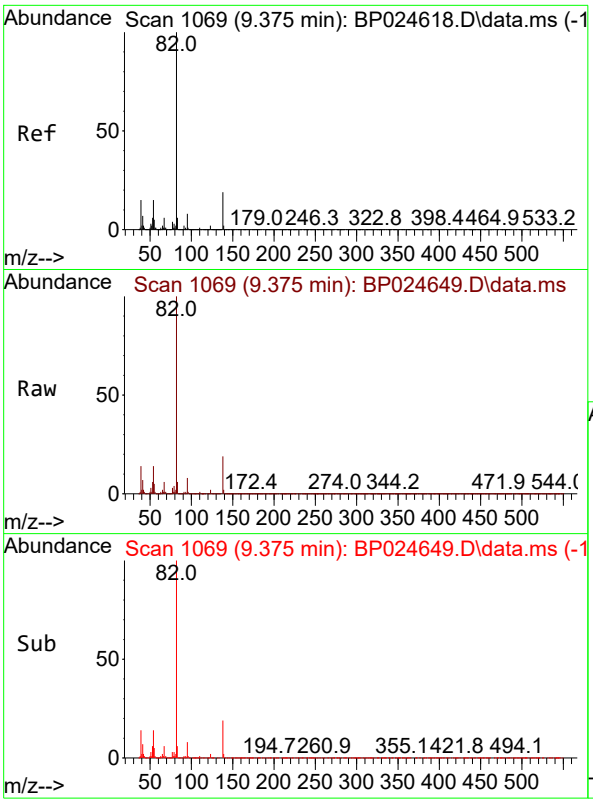


#24
Nitrobenzene
Concen: 37.701 ng
RT: 8.857 min Scan# 981
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion: 77 Resp: 645688

Ion	Ratio	Lower	Upper
77	100		
123	49.8	37.4	56.0
65	13.4	11.3	16.9



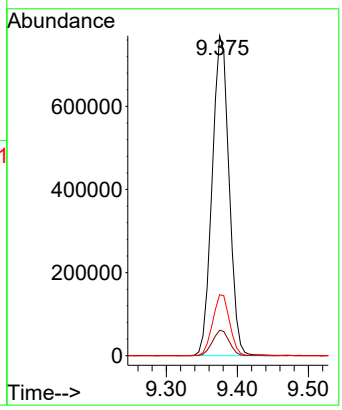


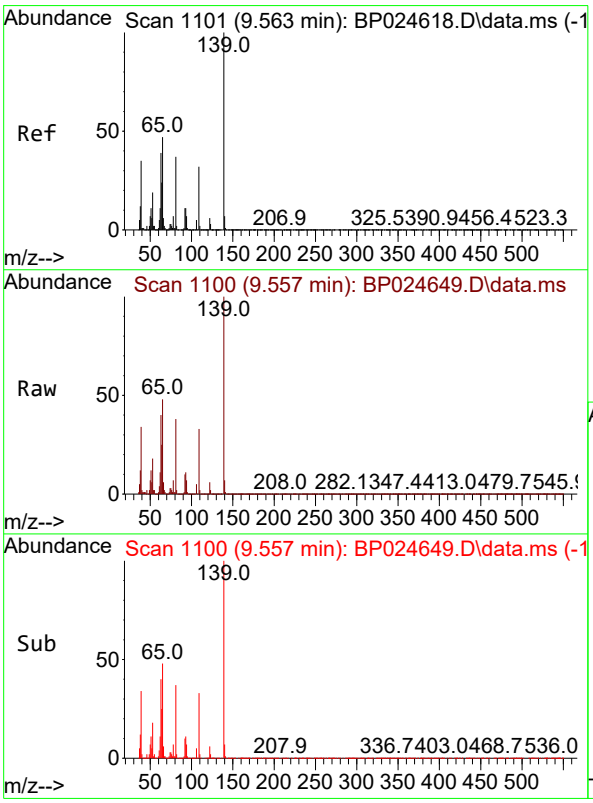
#25
Isophorone
Concen: 37.591 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 1269006

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.3	9.5
138	19.1	15.3	22.9

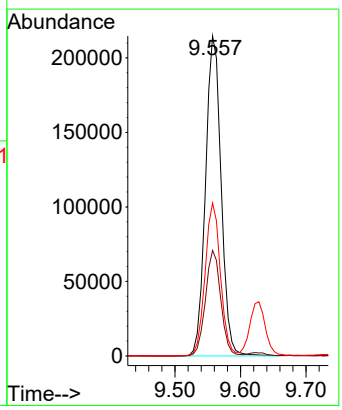


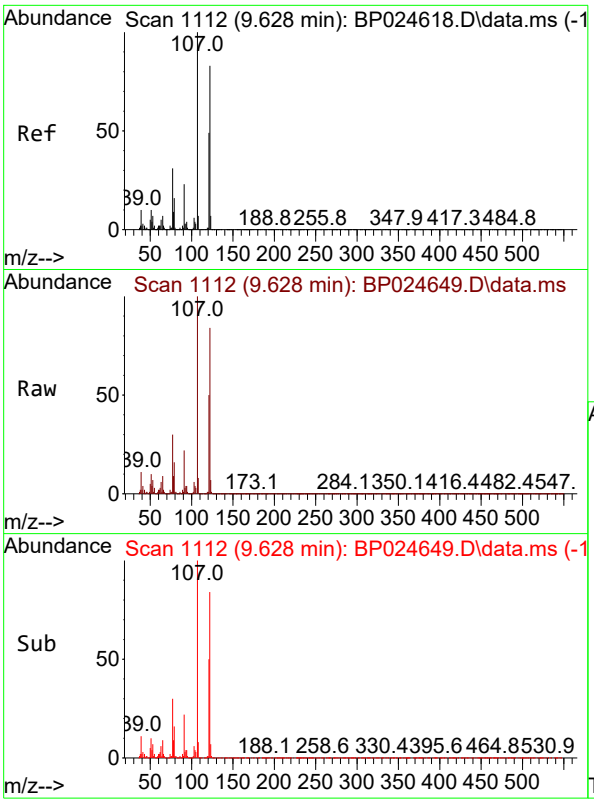


#26
2-Nitrophenol
Concen: 42.349 ng
RT: 9.557 min Scan# 1100
Delta R.T. -0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:139 Resp: 355400

Ion	Ratio	Lower	Upper
139	100		
109	33.0	25.9	38.9
65	47.8	37.9	56.9



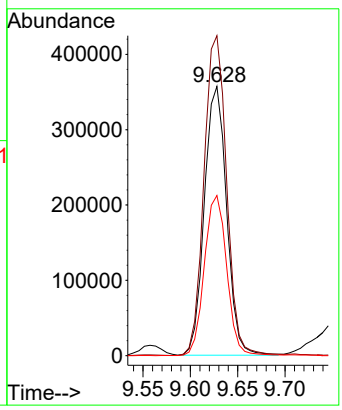


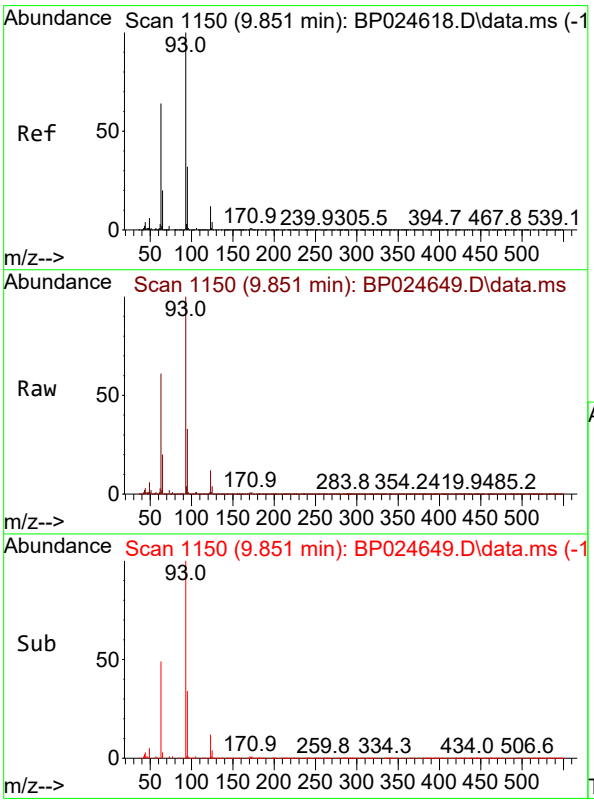
#27
2,4-Dimethylphenol
Concen: 39.364 ng
RT: 9.628 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:122 Resp: 582440

Ion	Ratio	Lower	Upper
122	100		
107	118.9	96.2	144.2
121	59.5	47.6	71.4

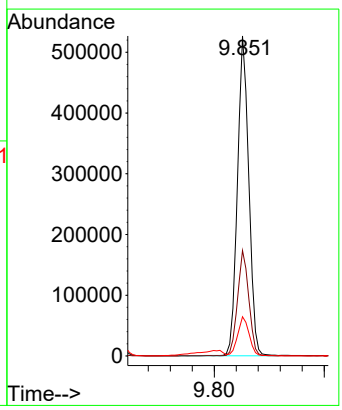


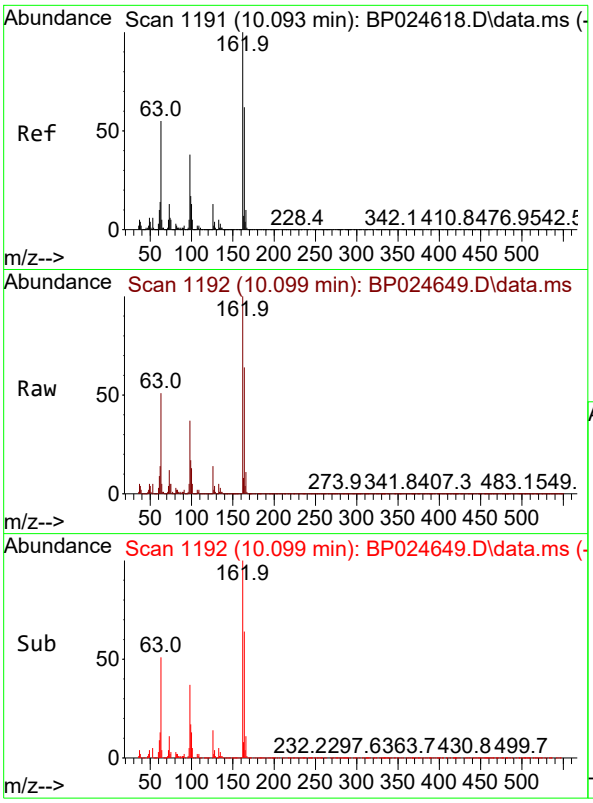


#28
bis(2-Chloroethoxy)methane
Concen: 37.413 ng
RT: 9.851 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion: 93 Resp: 754573

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.5	38.3
123	12.2	9.7	14.5



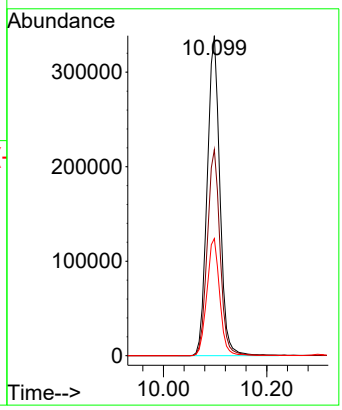


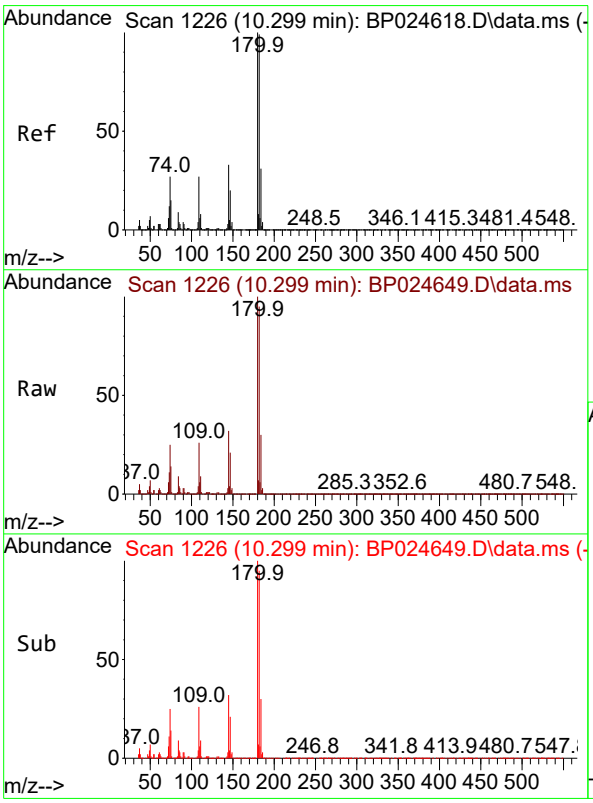
#29
2,4-Dichlorophenol
Concen: 40.144 ng
RT: 10.099 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 575595

Ion	Ratio	Lower	Upper
162	100		
164	64.4	42.3	82.3
98	36.6	18.4	58.4

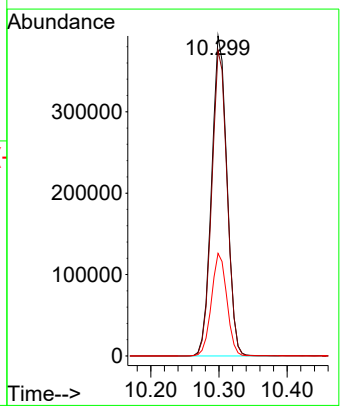


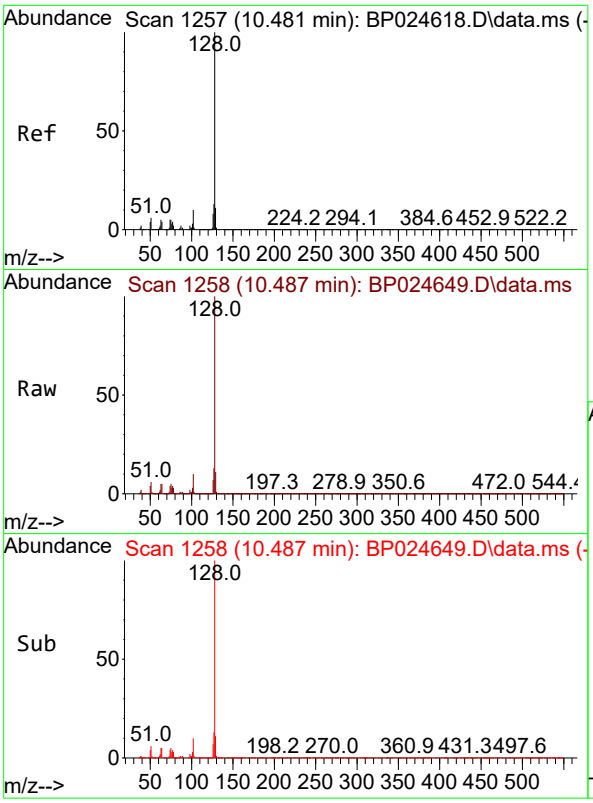


#30
1,2,4-Trichlorobenzene
Concen: 38.169 ng
RT: 10.299 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:180 Resp: 616726

Ion	Ratio	Lower	Upper
180	100		
182	95.4	79.0	118.4
145	32.1	26.6	39.8



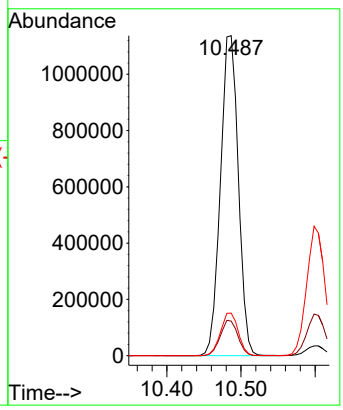


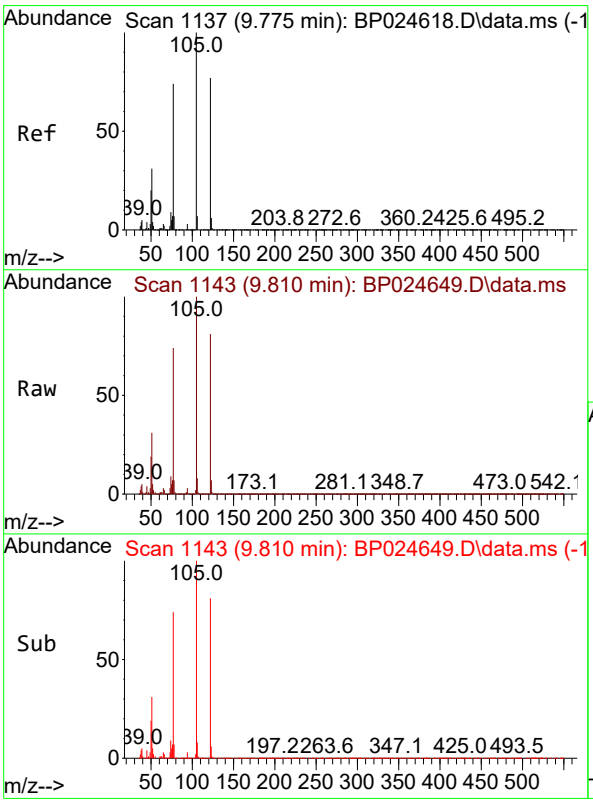
#31
Naphthalene
Concen: 37.358 ng
RT: 10.487 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:128 Resp: 1903619

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	13.3	10.7	16.1

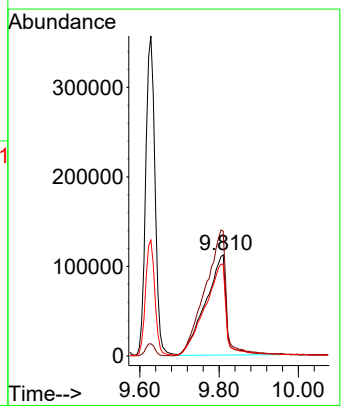


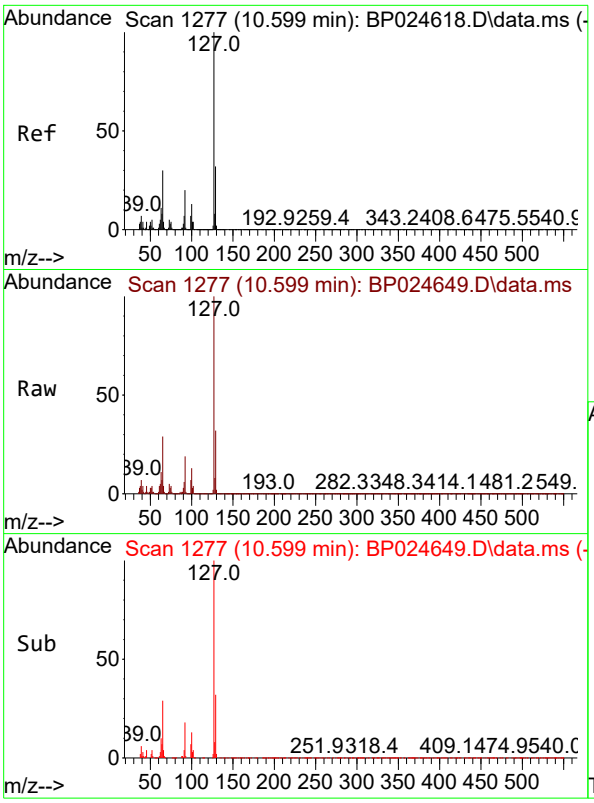


#32
Benzoic acid
Concen: 40.907 ng
RT: 9.810 min Scan# 1143
Delta R.T. 0.035 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:122 Resp: 407909

Ion	Ratio	Lower	Upper
122	100		
105	123.4	106.9	146.9
77	91.0	75.1	115.1



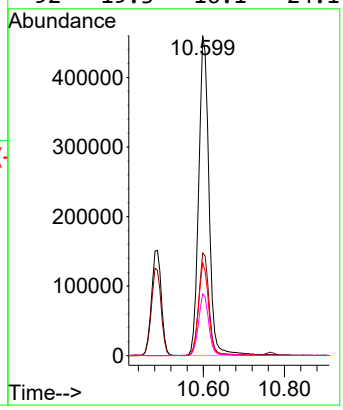


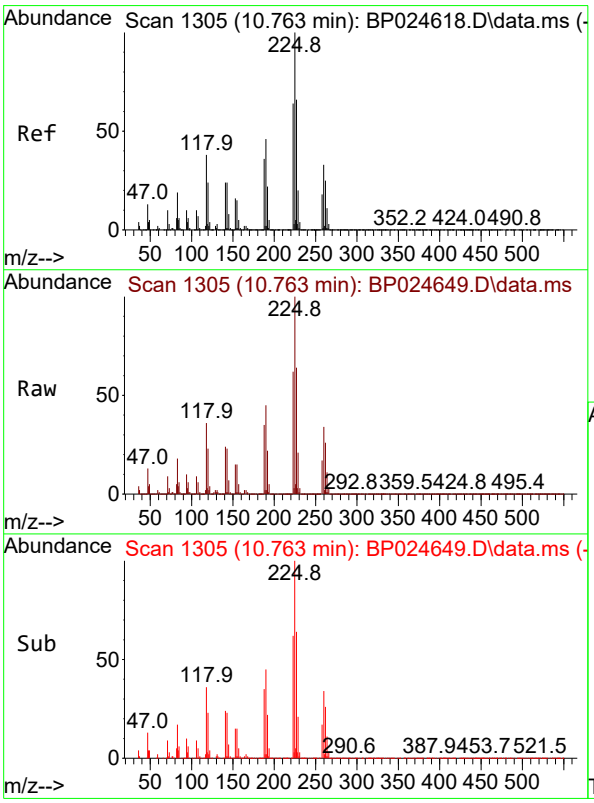
#33
4-Chloroaniline
Concen: 39.613 ng
RT: 10.599 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:127 Resp: 814535

Ion	Ratio	Lower	Upper
127	100		
129	32.1	25.8	38.6
65	29.0	23.9	35.9
92	19.3	16.1	24.1

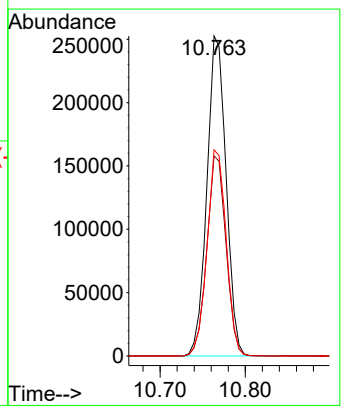


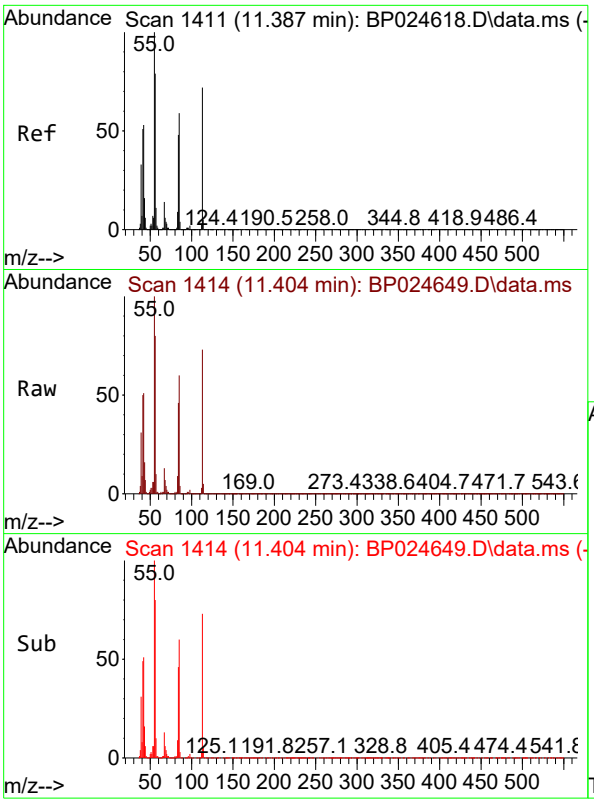


#34
Hexachlorobutadiene
Concen: 37.631 ng
RT: 10.763 min Scan# 1305
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:225 Resp: 393890

Ion	Ratio	Lower	Upper
225	100		
223	62.5	51.0	76.6
227	64.4	53.1	79.7



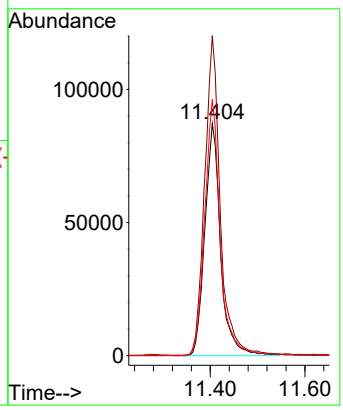


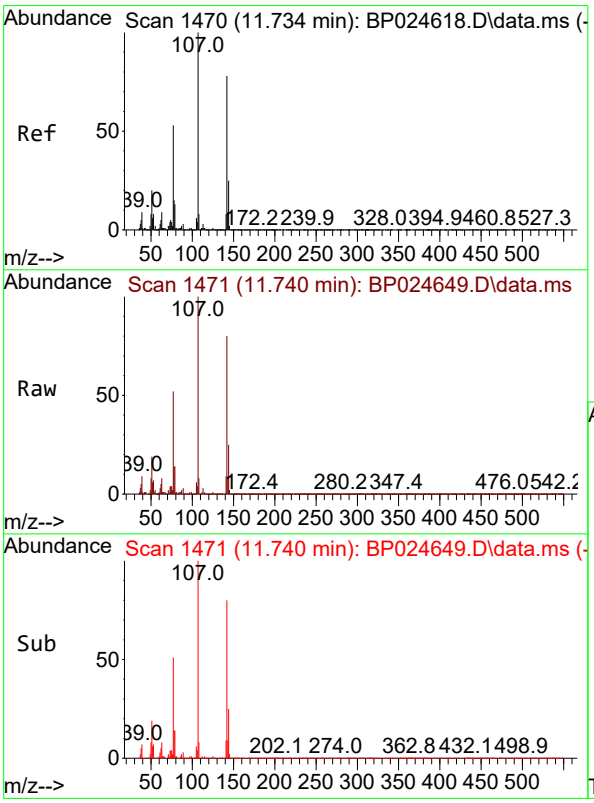
#35
Caprolactam
Concen: 38.665 ng
RT: 11.404 min Scan# 14
Delta R.T. 0.018 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:113 Resp: 200581

Ion	Ratio	Lower	Upper
113	100		
55	137.9	119.0	159.0
56	110.4	90.3	130.3

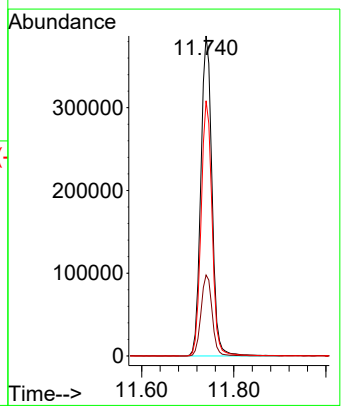


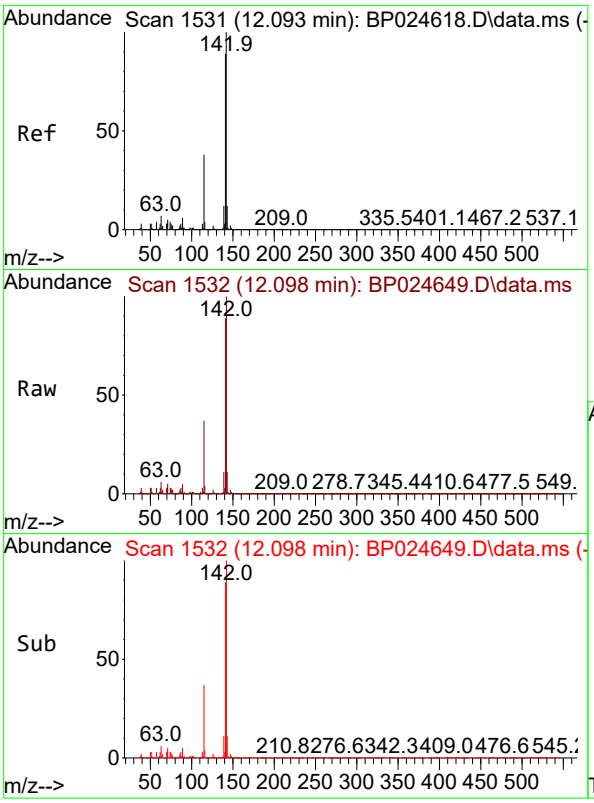


#36
4-Chloro-3-methylphenol
Concen: 37.291 ng
RT: 11.740 min Scan# 1471
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:107 Resp: 652057

Ion	Ratio	Lower	Upper
107	100		
144	25.3	20.1	30.1
142	79.8	62.1	93.1



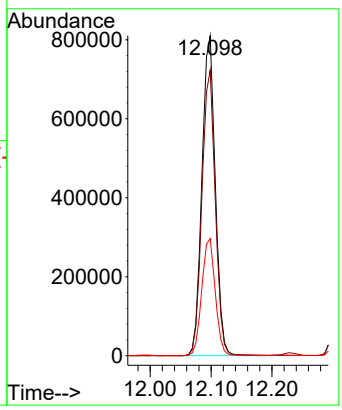


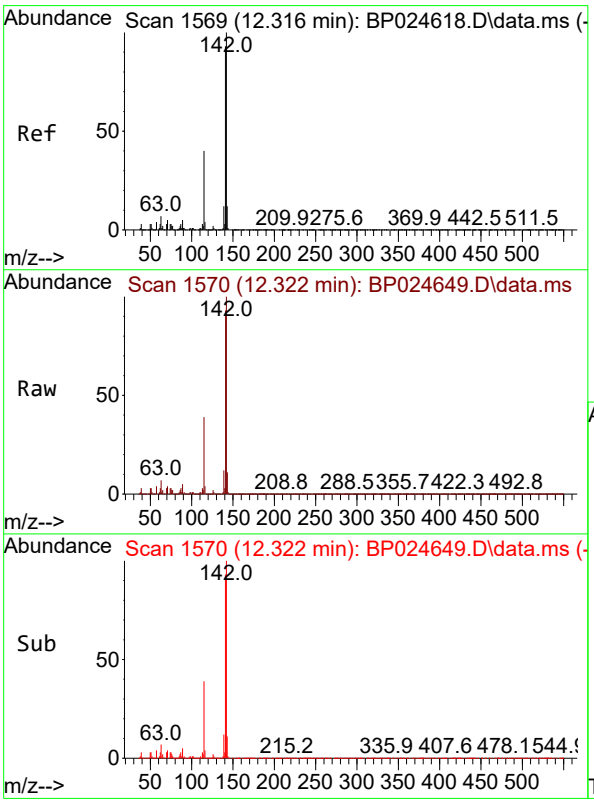
#37
2-Methylnaphthalene
Concen: 37.411 ng
RT: 12.098 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:142 Resp: 1234376

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.2	106.8
115	36.6	30.6	46.0

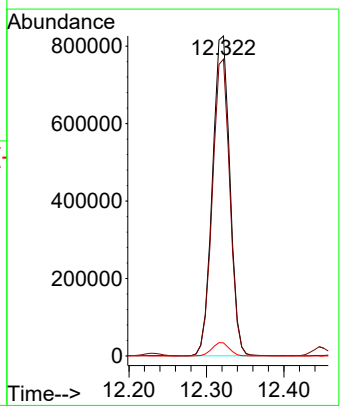


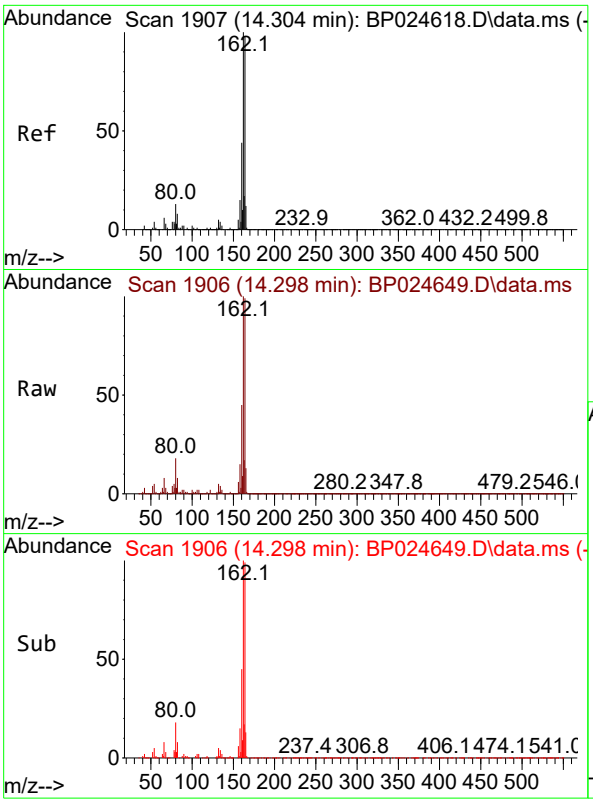


#38
1-Methylnaphthalene
Concen: 36.632 ng
RT: 12.322 min Scan# 1570
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:142 Resp: 1293251

Ion	Ratio	Lower	Upper
142	100		
141	92.8	74.7	112.1
116	4.1	3.4	5.2



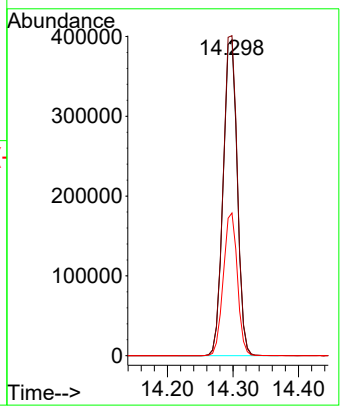


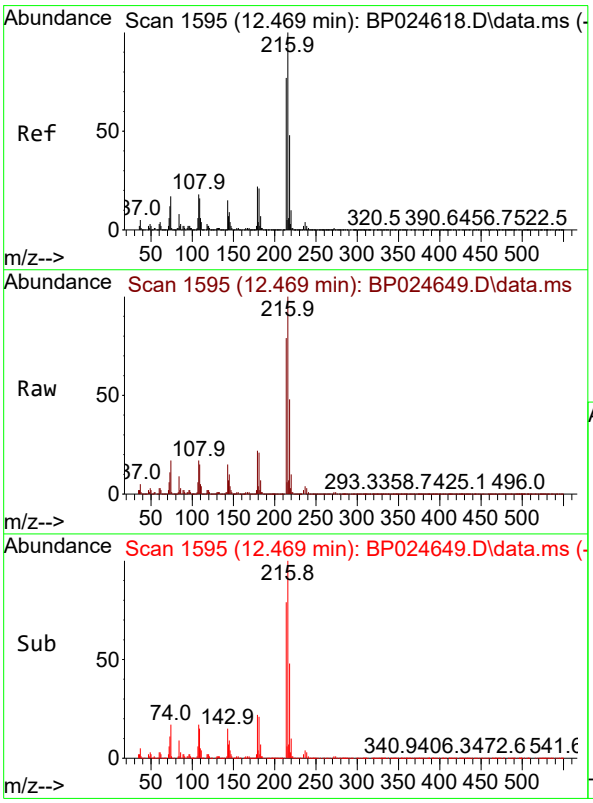
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:164 Resp: 587551

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.8	122.6
160	45.2	36.3	54.5

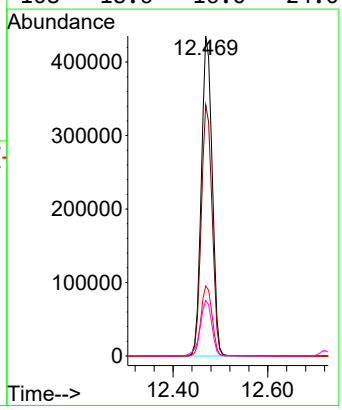


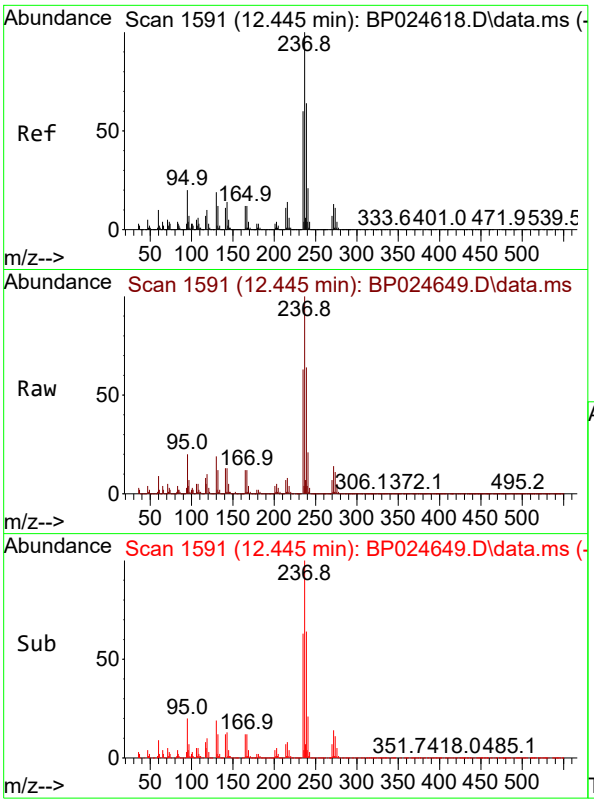


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.363 ng
RT: 12.469 min Scan# 1595
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:216 Resp: 688659

Ion	Ratio	Lower	Upper
216	100		
214	78.6	62.3	93.5
179	22.3	17.7	26.5
108	18.6	16.0	24.0



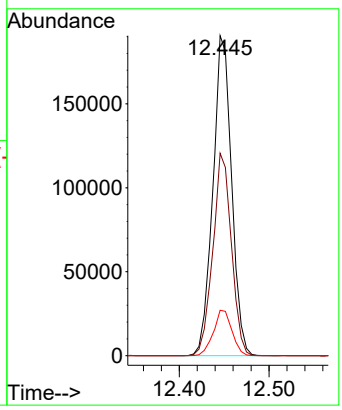


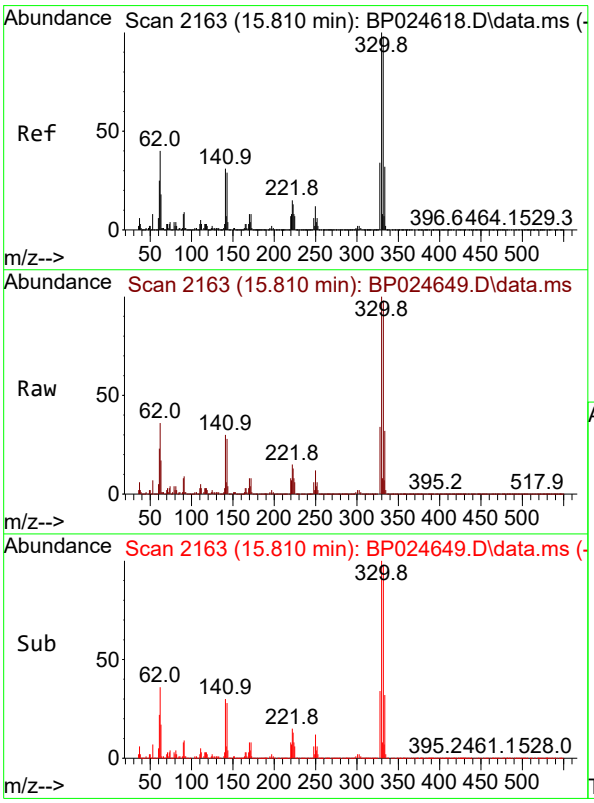
#41
Hexachlorocyclopentadiene
Concen: 26.660 ng
RT: 12.445 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:237 Resp: 275814

Ion	Ratio	Lower	Upper
237	100		
235	63.2	39.9	79.9
272	14.2	0.0	33.2

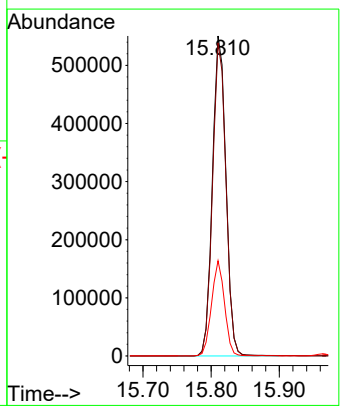


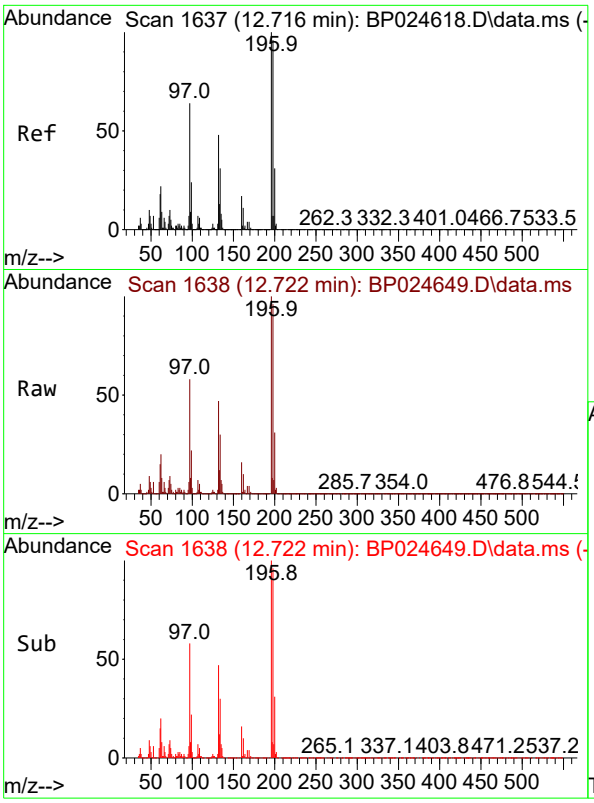


#42
2,4,6-Tribromophenol
Concen: 76.212 ng
RT: 15.810 min Scan# 2163
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:330 Resp: 759124

Ion	Ratio	Lower	Upper
330	100		
332	97.2	78.2	117.4
141	28.6	24.3	36.5



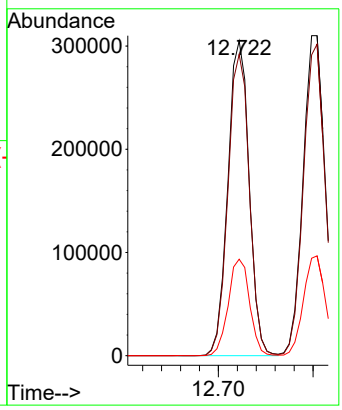


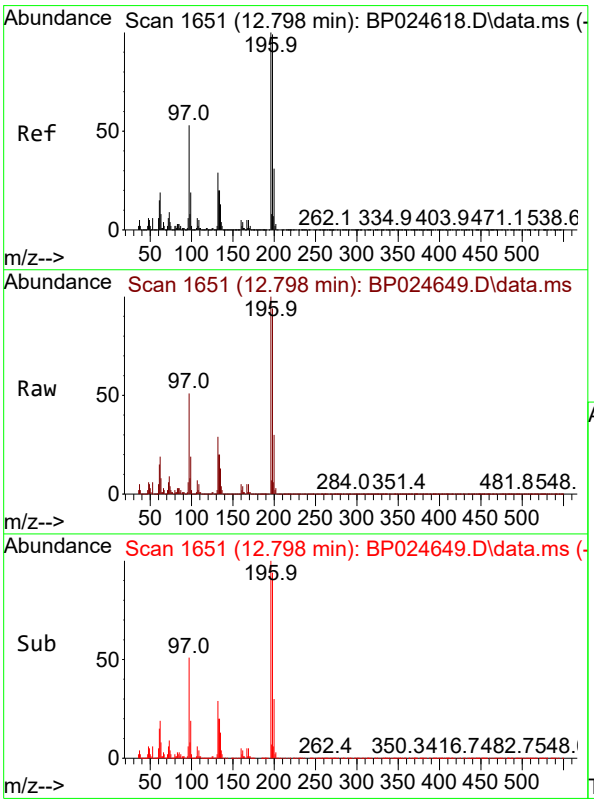
#43
2,4,6-Trichlorophenol
Concen: 43.120 ng
RT: 12.722 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:196 Resp: 476529

Ion	Ratio	Lower	Upper
196	100		
198	95.7	76.9	115.3
200	30.6	25.2	37.8

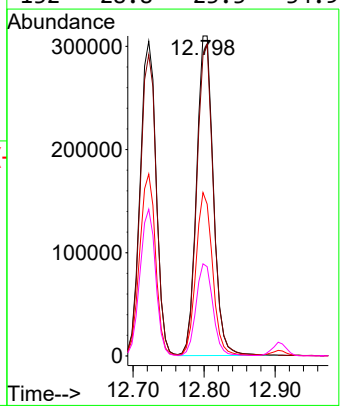


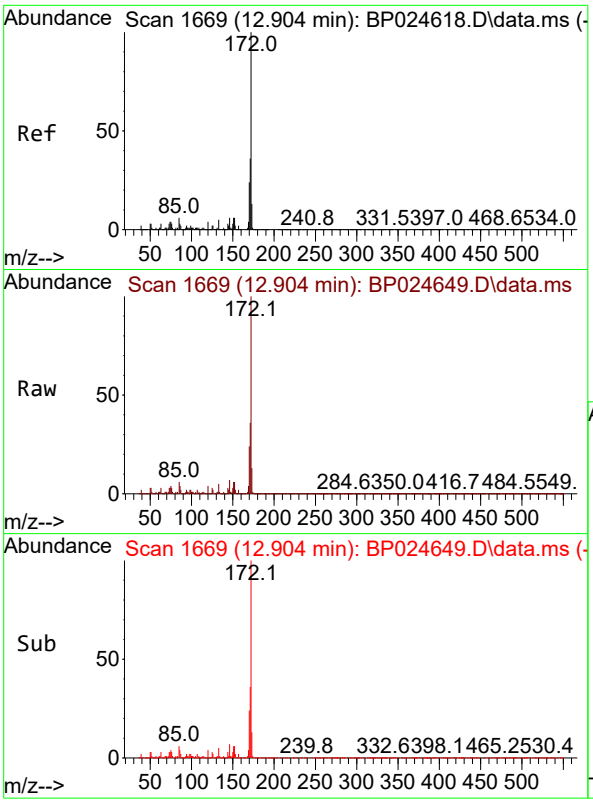


#44
2,4,5-Trichlorophenol
Concen: 41.607 ng
RT: 12.798 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:196 Resp: 511817

Ion	Ratio	Lower	Upper
196	100		
198	94.0	79.2	118.8
97	51.1	42.3	63.5
132	28.8	23.3	34.9



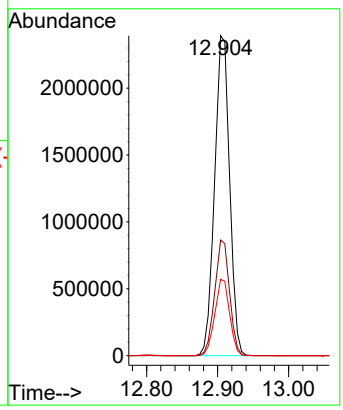


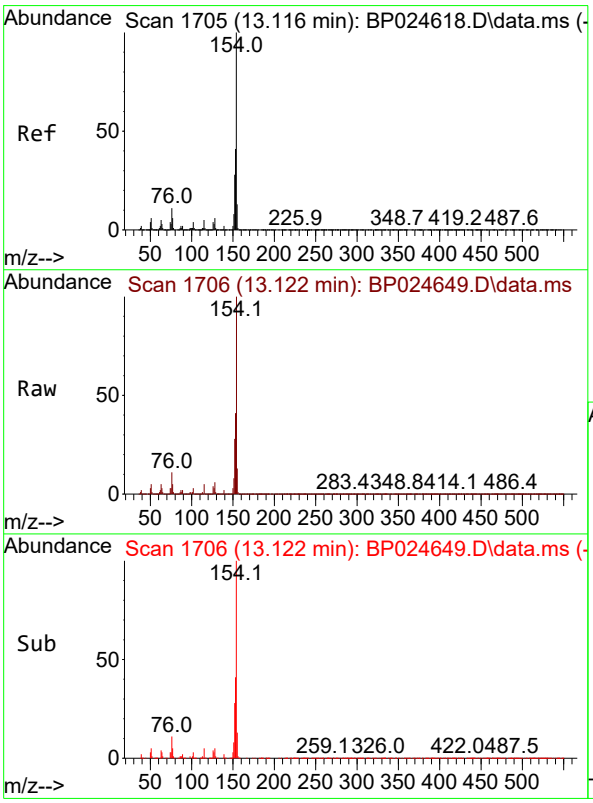
#45
2-Fluorobiphenyl
Concen: 78.028 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:172 Resp: 3499303

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.8	43.2
170	23.9	18.8	28.2

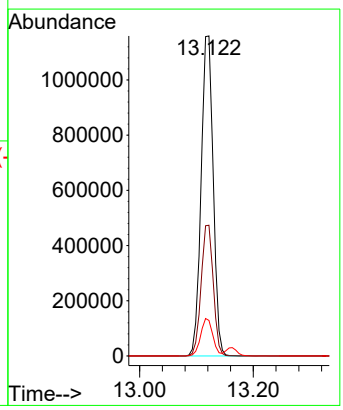


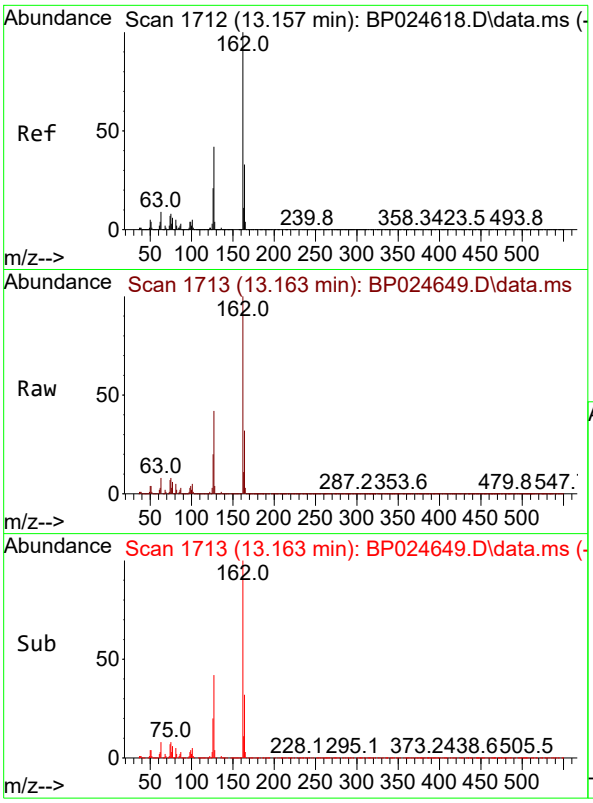


#46
1,1'-Biphenyl
Concen: 39.444 ng
RT: 13.122 min Scan# 1706
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:154 Resp: 1712931

Ion	Ratio	Lower	Upper
154	100		
153	40.8	21.0	61.0
76	11.1	0.0	31.5



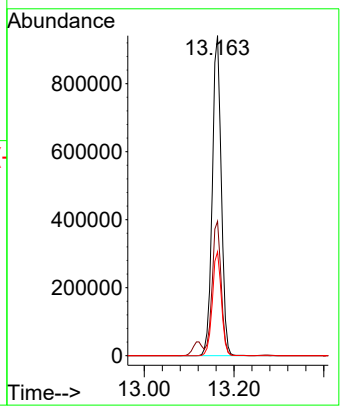


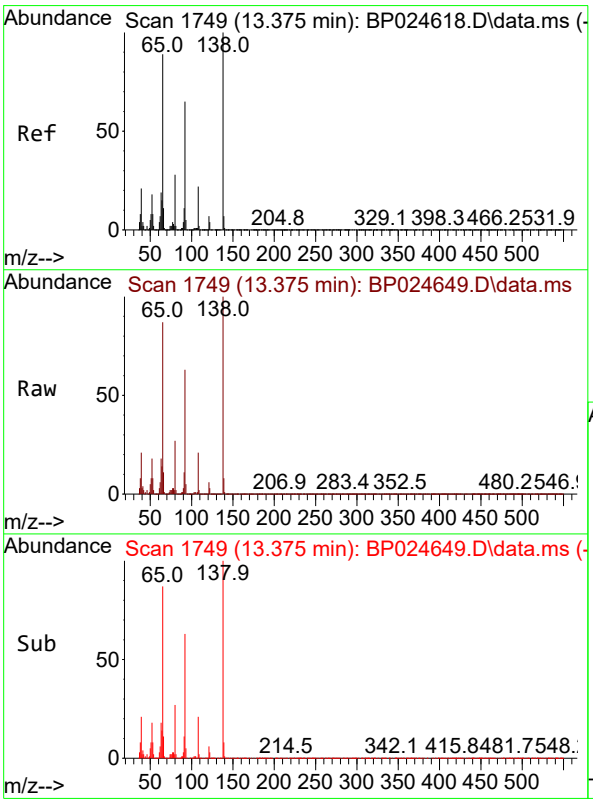
#47
2-Chloronaphthalene
Concen: 39.538 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 1309148

Ion	Ratio	Lower	Upper
162	100		
127	42.0	33.8	50.6
164	32.4	26.0	39.0

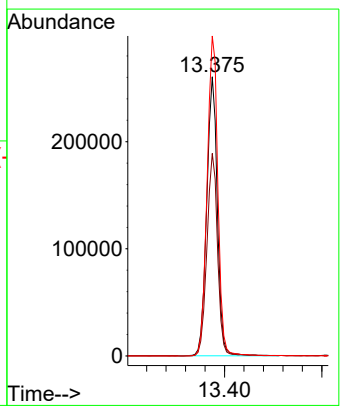


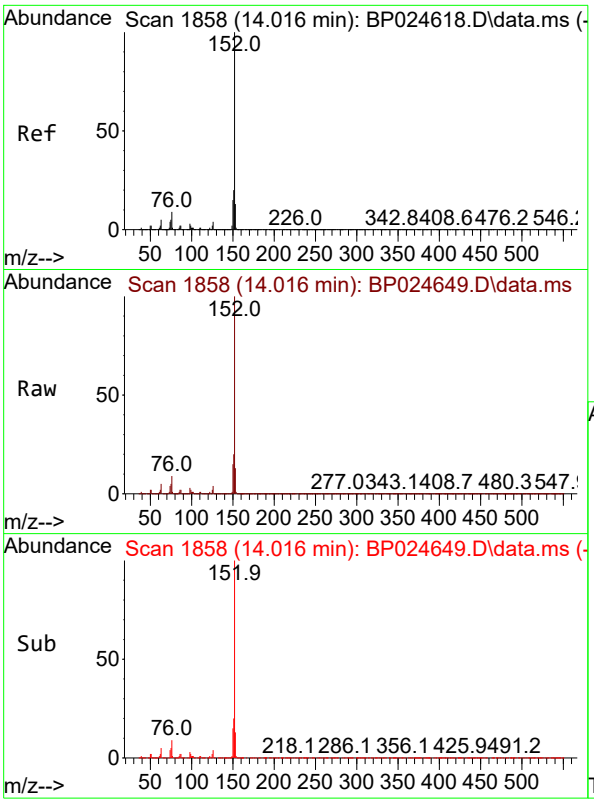


#48
2-Nitroaniline
Concen: 40.236 ng
RT: 13.375 min Scan# 1749
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion: 65 Resp: 394433

Ion	Ratio	Lower	Upper
65	100		
92	72.6	58.7	88.1
138	114.6	90.2	135.2



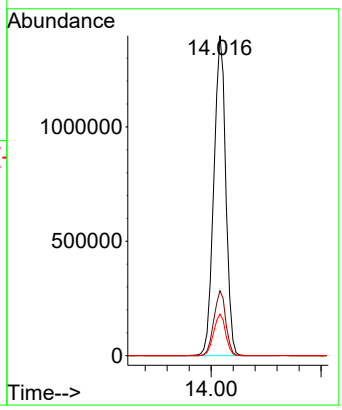


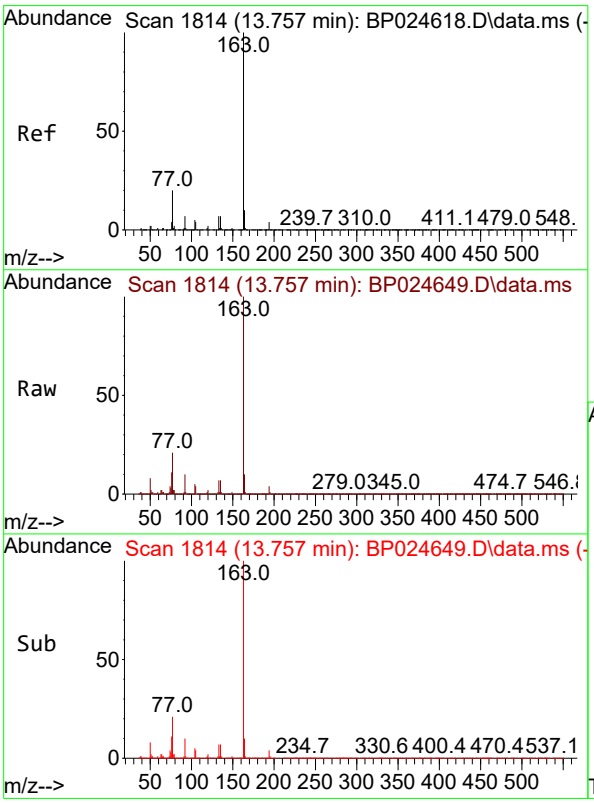
#49
Acenaphthylene
Concen: 37.956 ng
RT: 14.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 2103173

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.0	10.2	15.4

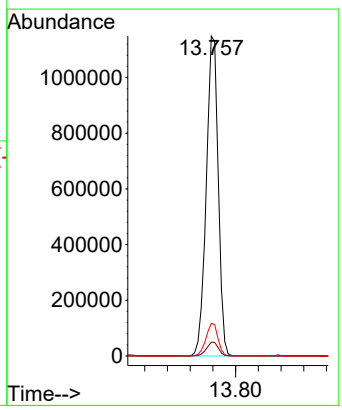


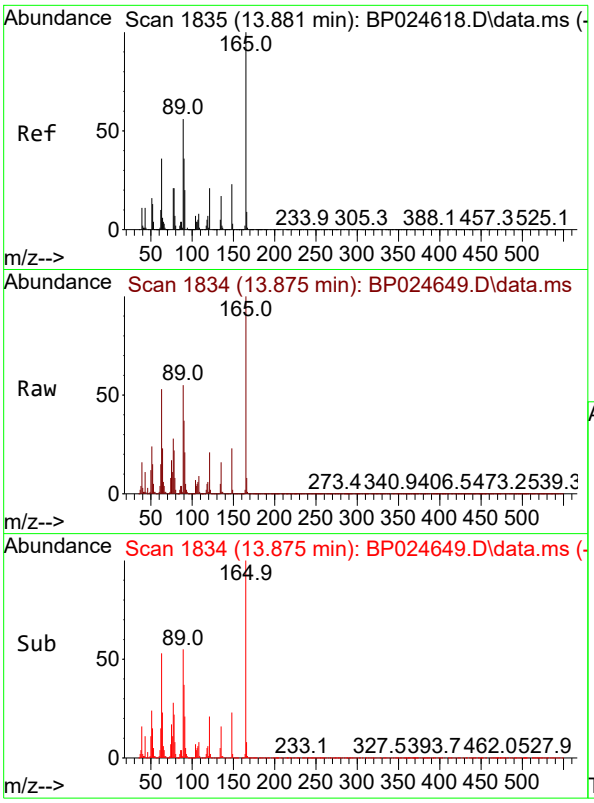


#50
Dimethylphthalate
Concen: 37.291 ng
RT: 13.757 min Scan# 1814
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:163 Resp: 1670038

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.0
164	10.2	8.1	12.1



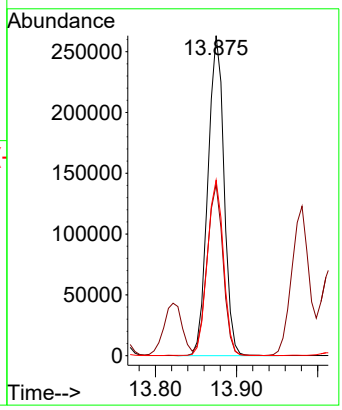


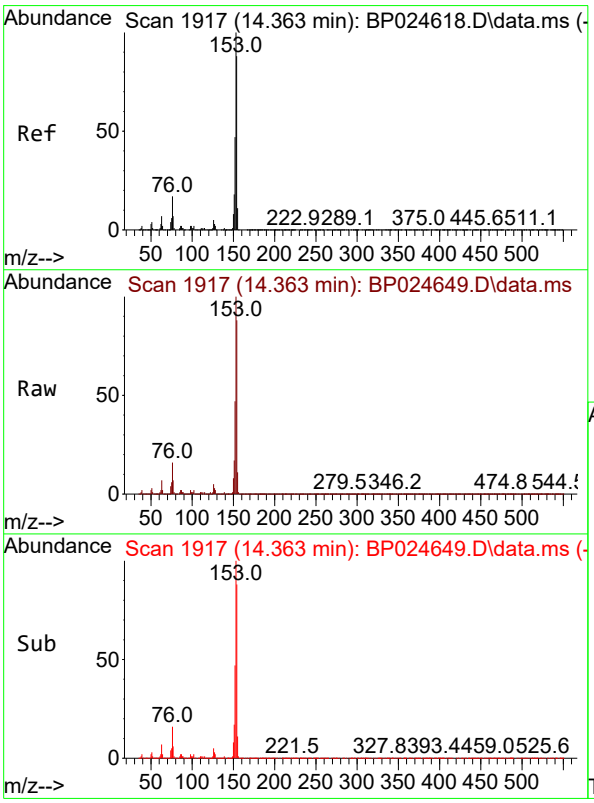
#51
2,6-Dinitrotoluene
Concen: 38.228 ng
RT: 13.875 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 361561

Ion	Ratio	Lower	Upper
165	100		
63	53.5	42.4	63.6
89	54.8	44.8	67.2

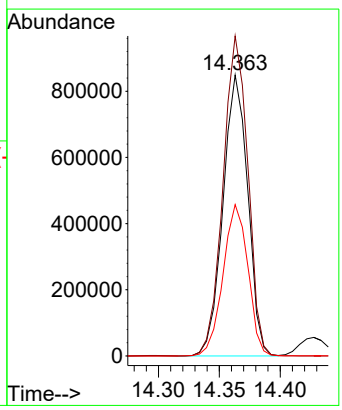


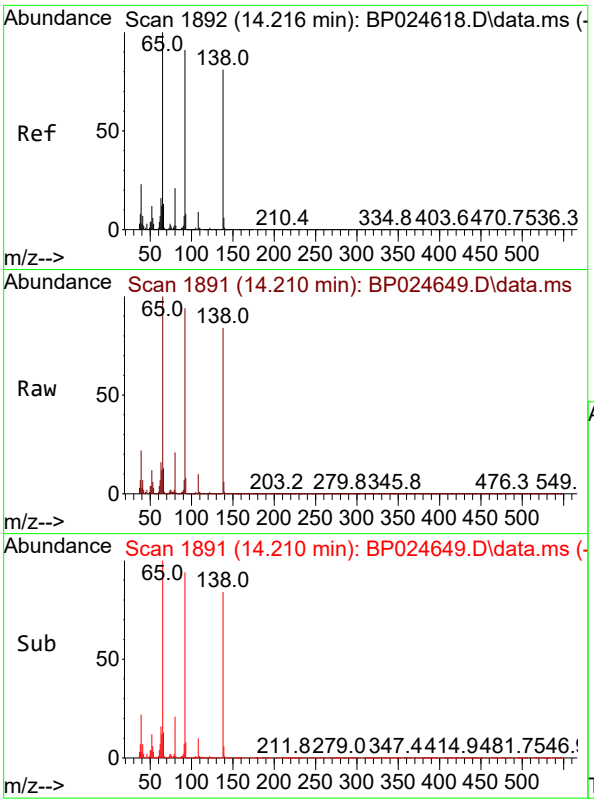


#52
Acenaphthene
Concen: 37.727 ng
RT: 14.363 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:154 Resp: 1201800

Ion	Ratio	Lower	Upper
154	100		
153	113.9	91.0	136.4
152	53.9	42.9	64.3



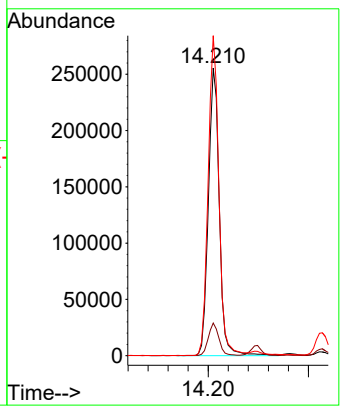


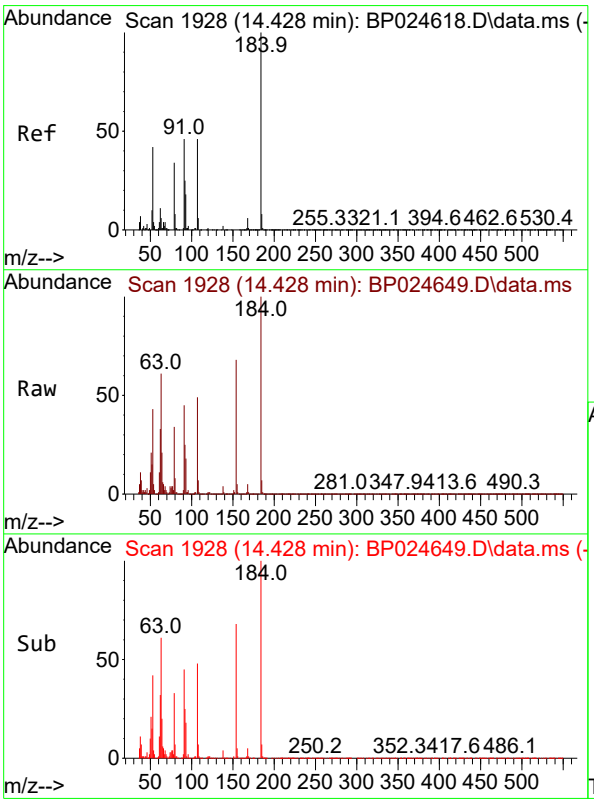
#53
3-Nitroaniline
Concen: 40.013 ng
RT: 14.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:138 Resp: 386417

Ion	Ratio	Lower	Upper
138	100		
108	11.4	9.0	13.4
92	111.2	90.1	135.1

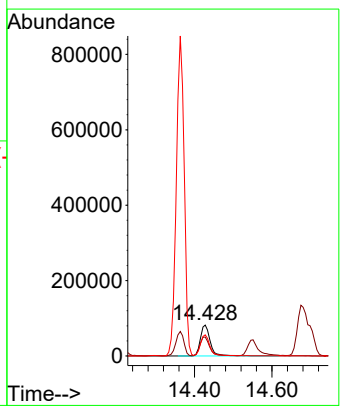


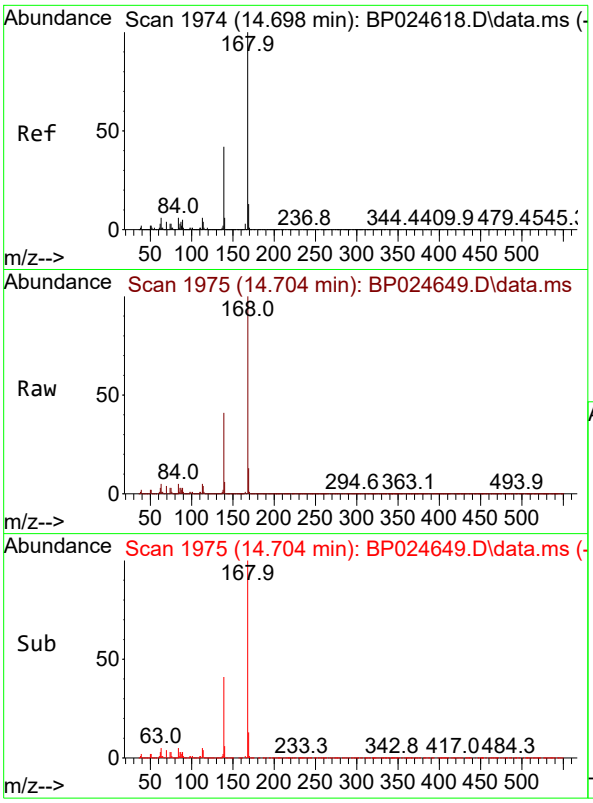


#54
2,4-Dinitrophenol
Concen: 28.615 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:184 Resp: 144005

Ion	Ratio	Lower	Upper
184	100		
63	60.9	51.3	76.9
154	68.3	53.5	80.3



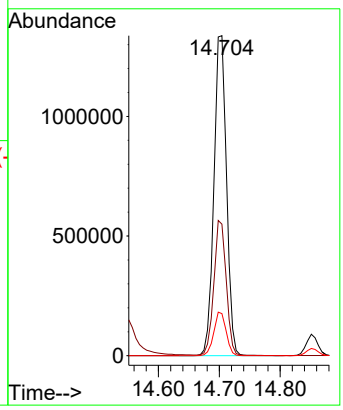


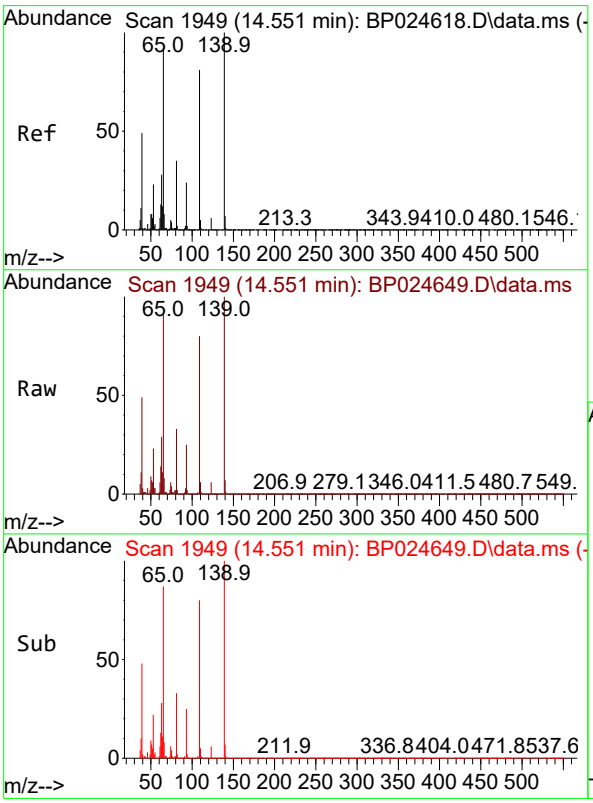
#55
Dibenzofuran
Concen: 37.718 ng
RT: 14.704 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:168 Resp: 1916472

Ion	Ratio	Lower	Upper
168	100		
139	41.1	34.2	51.4
169	13.1	10.8	16.2

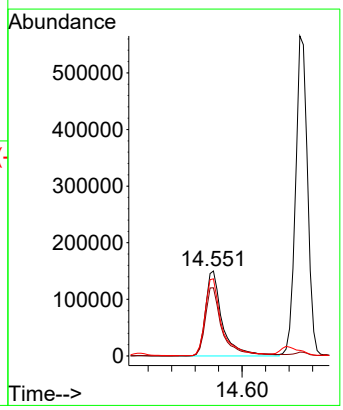


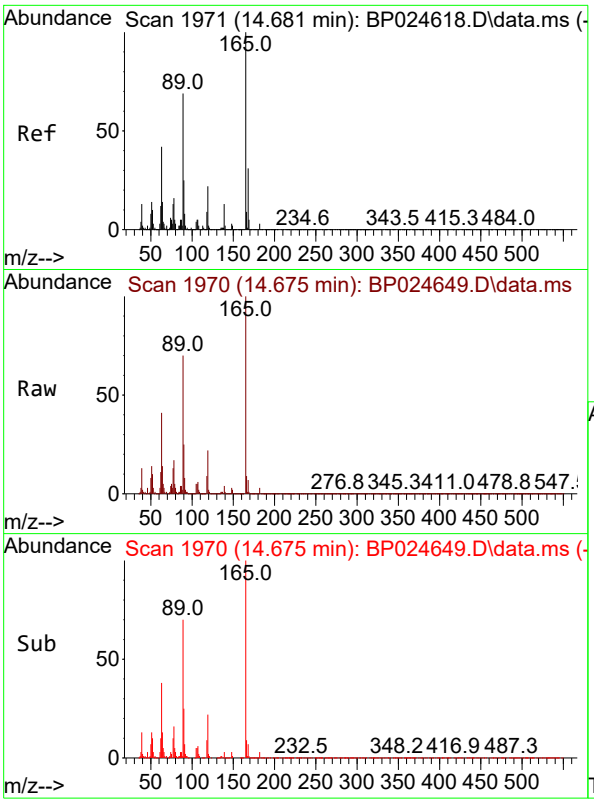


#56
4-Nitrophenol
Concen: 37.883 ng
RT: 14.551 min Scan# 1949
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:139 Resp: 297049

Ion	Ratio	Lower	Upper
139	100		
109	80.2	61.4	101.4
65	90.8	72.2	112.2



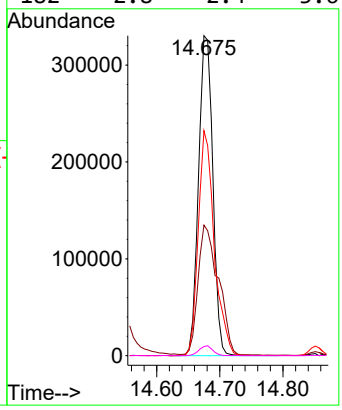


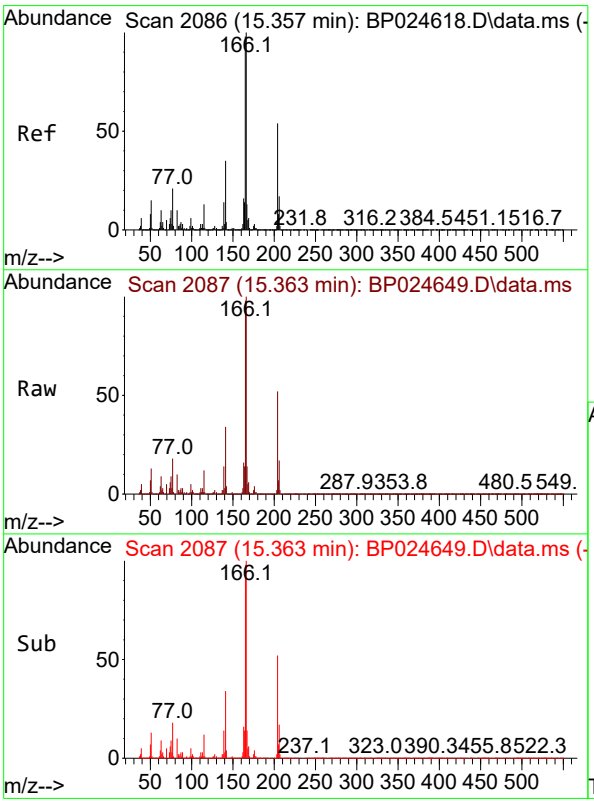
#57
2,4-Dinitrotoluene
Concen: 38.836 ng
RT: 14.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 517837

Ion	Ratio	Lower	Upper
165	100		
63	40.8	33.8	50.6
89	70.3	55.6	83.4
182	2.8	2.4	3.6

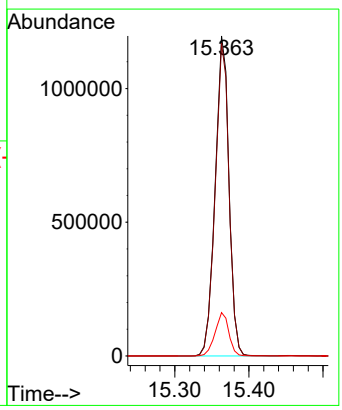


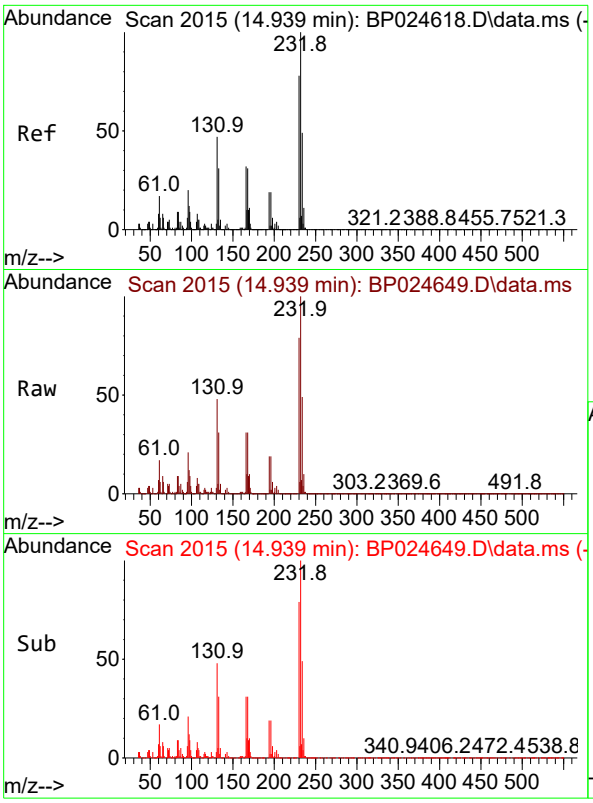


#58
Fluorene
Concen: 37.279 ng
RT: 15.363 min Scan# 2087
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:166 Resp: 1544487

Ion	Ratio	Lower	Upper
166	100		
165	97.7	78.5	117.7
167	13.5	10.7	16.1



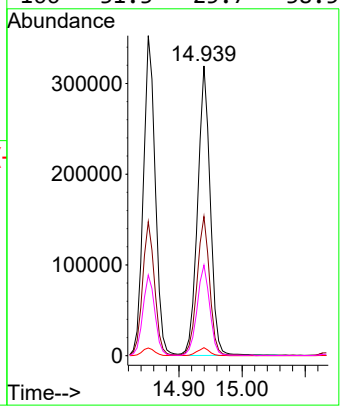


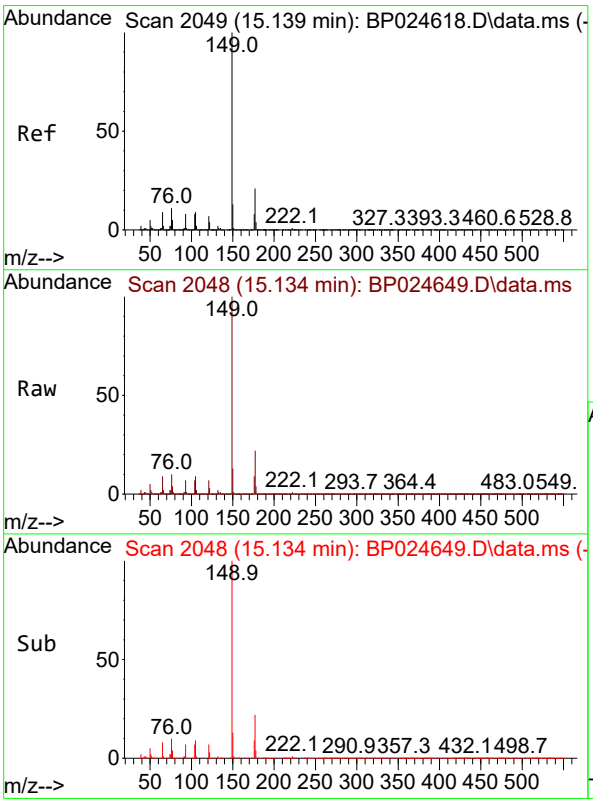
#59
2,3,4,6-Tetrachlorophenol
Concen: 38.666 ng
RT: 14.939 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:232 Resp: 441228

Ion	Ratio	Lower	Upper
232	100		
131	47.8	39.5	59.3
130	2.7	2.2	3.4
166	31.3	25.7	38.5

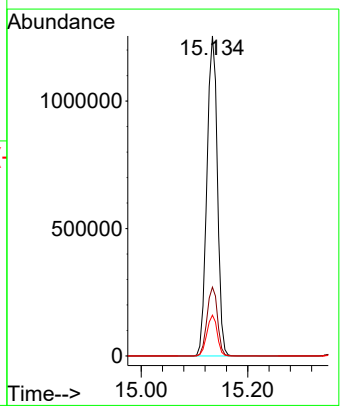


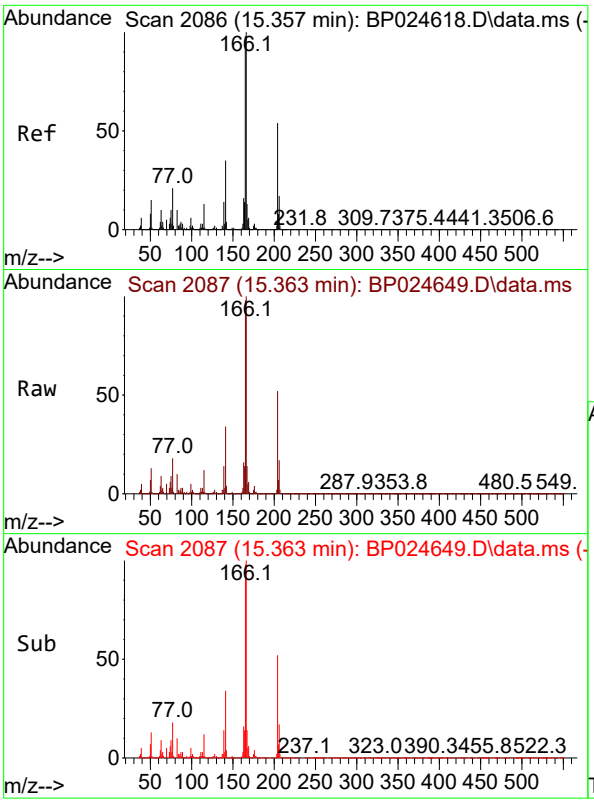


#60
Diethylphthalate
Concen: 37.682 ng
RT: 15.134 min Scan# 2048
Delta R.T. -0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:149 Resp: 1705615

Ion	Ratio	Lower	Upper
149	100		
177	21.5	16.7	25.1
150	12.7	10.2	15.2



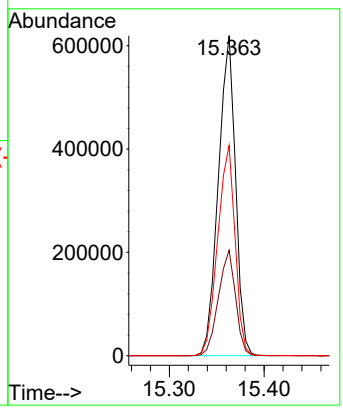


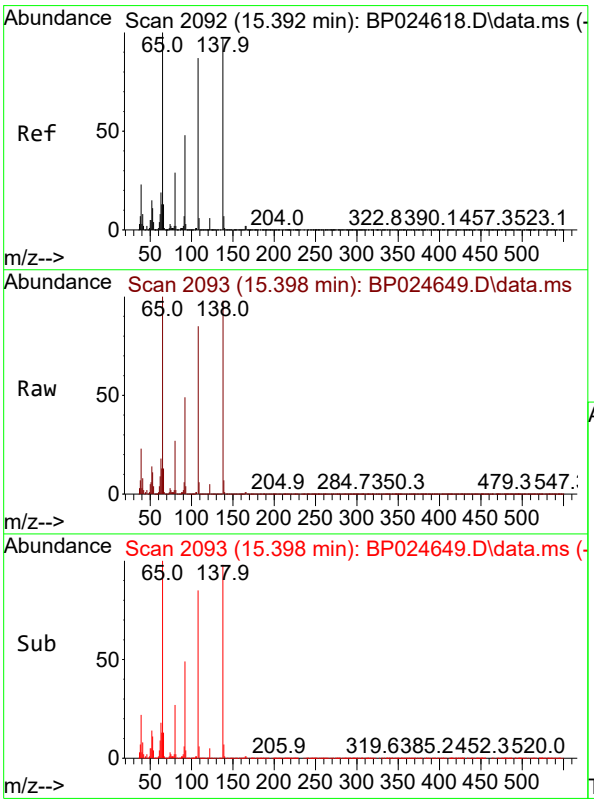
#61
4-Chlorophenyl-phenylether
Concen: 37.844 ng
RT: 15.363 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:204 Resp: 781926

Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.0	39.0
141	65.7	52.9	79.3

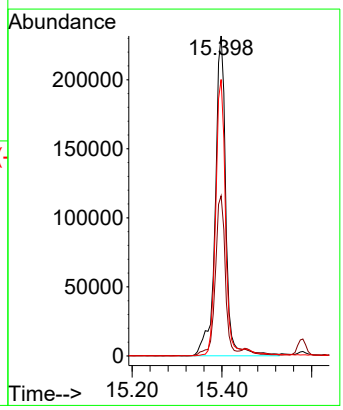


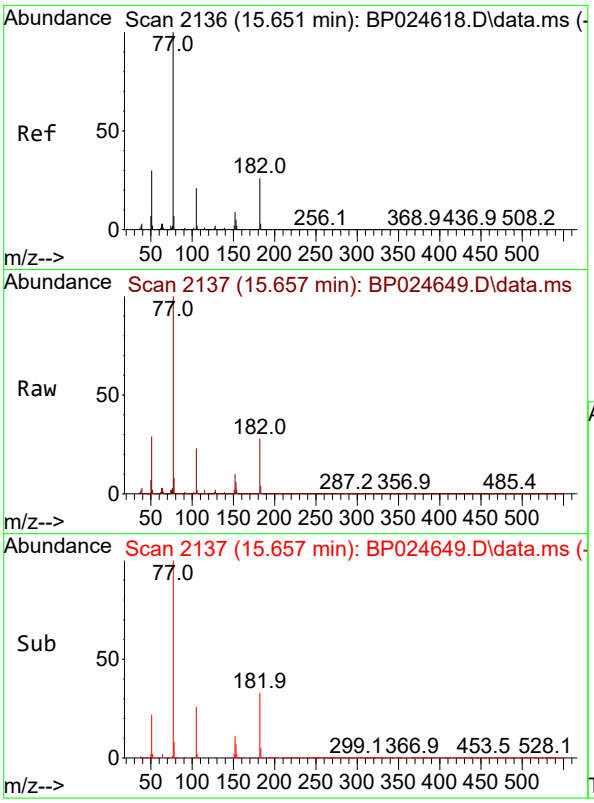


#62
4-Nitroaniline
Concen: 41.014 ng
RT: 15.398 min Scan# 2093
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:138 Resp: 382445

Ion	Ratio	Lower	Upper
138	100		
92	50.0	29.2	69.2
108	86.4	69.0	109.0



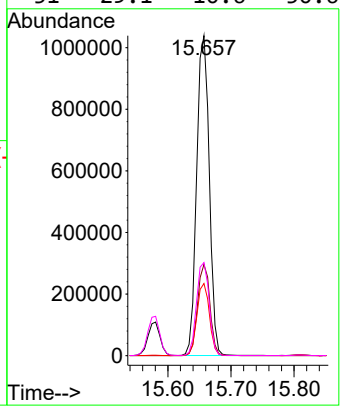


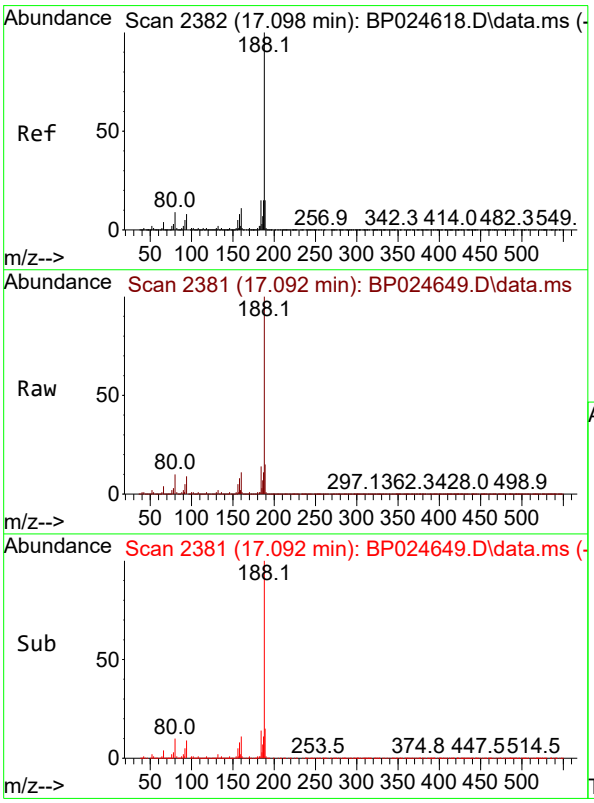
#63
Azobenzene
Concen: 37.109 ng
RT: 15.657 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 1436894

Ion	Ratio	Lower	Upper
77	100		
182	28.5	5.7	45.7
105	22.5	1.3	41.3
51	29.1	10.6	50.6

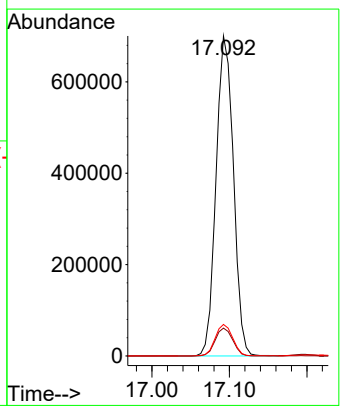


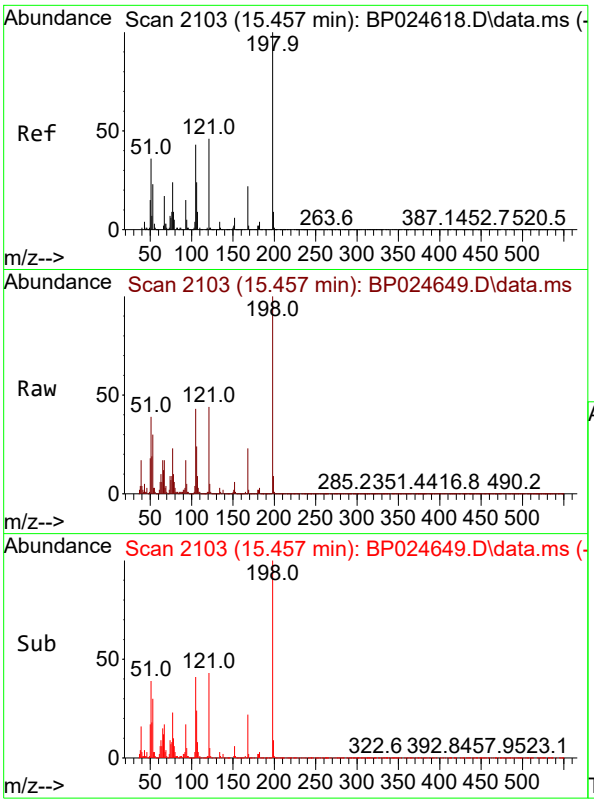


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.092 min Scan# 2381
Delta R.T. -0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:188 Resp: 1091563

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.5	9.7
80	9.8	7.3	10.9



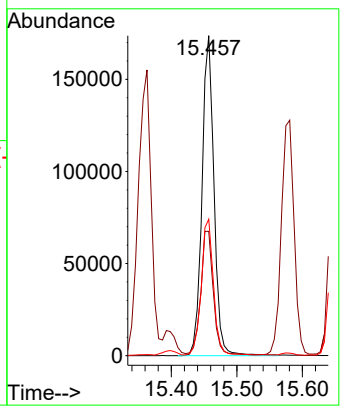


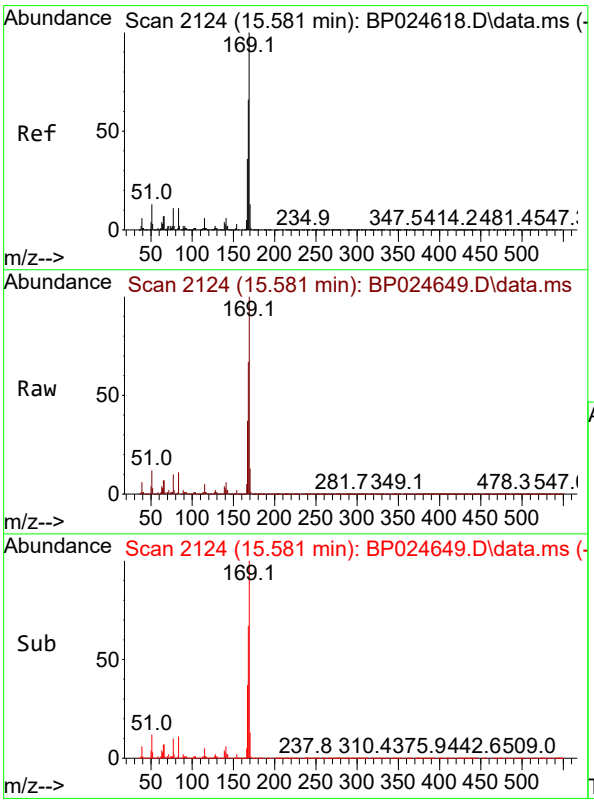
#65
4,6-Dinitro-2-methylphenol
Concen: 31.450 ng
RT: 15.457 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:198 Resp: 221744

Ion	Ratio	Lower	Upper
198	100		
51	38.9	21.1	61.1
105	42.6	23.6	63.6

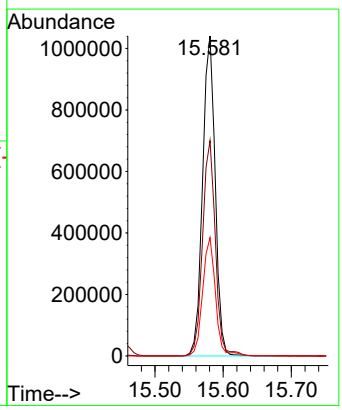


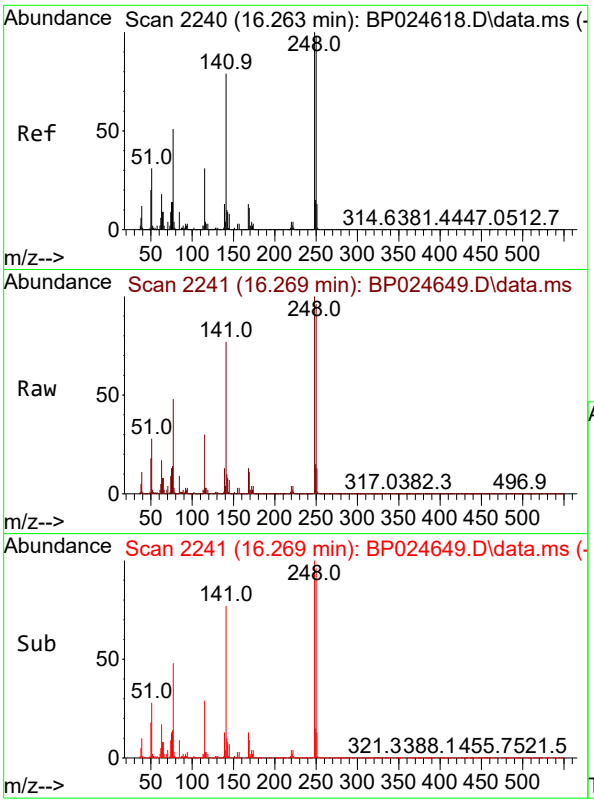


#66
n-Nitrosodiphenylamine
Concen: 39.890 ng
RT: 15.581 min Scan# 2124
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:169 Resp: 1337443

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.2	79.8
167	37.0	28.6	43.0



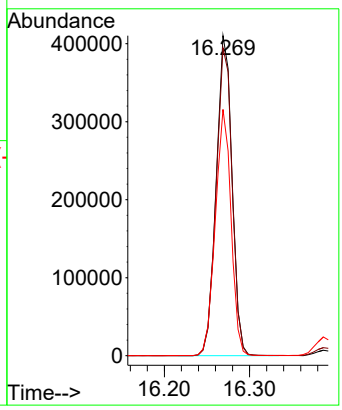


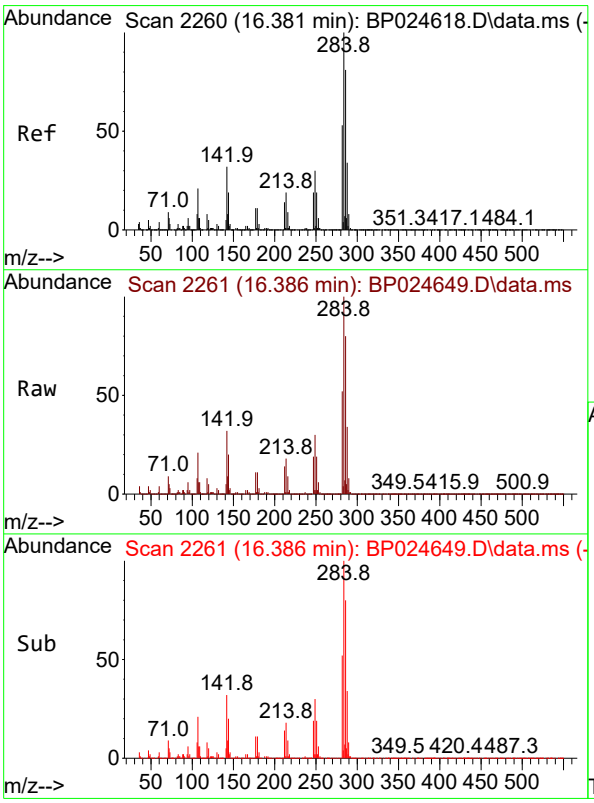
#67
4-Bromophenyl-phenylether
Concen: 41.141 ng
RT: 16.269 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:248 Resp: 529175

Ion	Ratio	Lower	Upper
248	100		
250	96.2	78.2	117.4
141	76.9	63.0	94.6

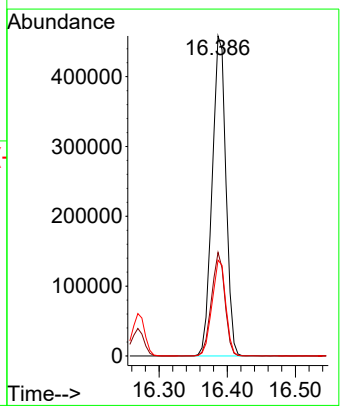


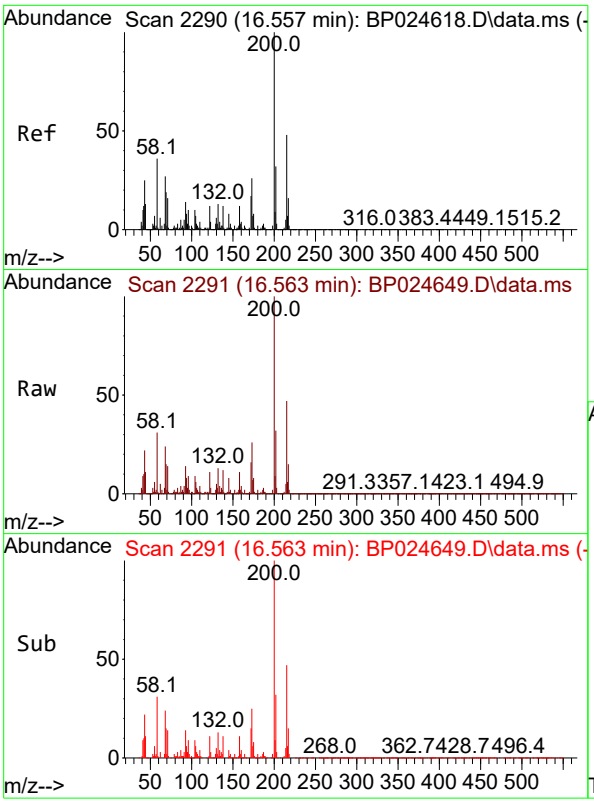


#68
Hexachlorobenzene
Concen: 39.324 ng
RT: 16.386 min Scan# 2261
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:284 Resp: 642713

Ion	Ratio	Lower	Upper
284	100		
142	32.4	25.9	38.9
249	30.0	24.1	36.1



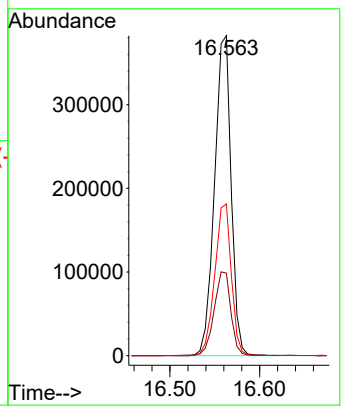


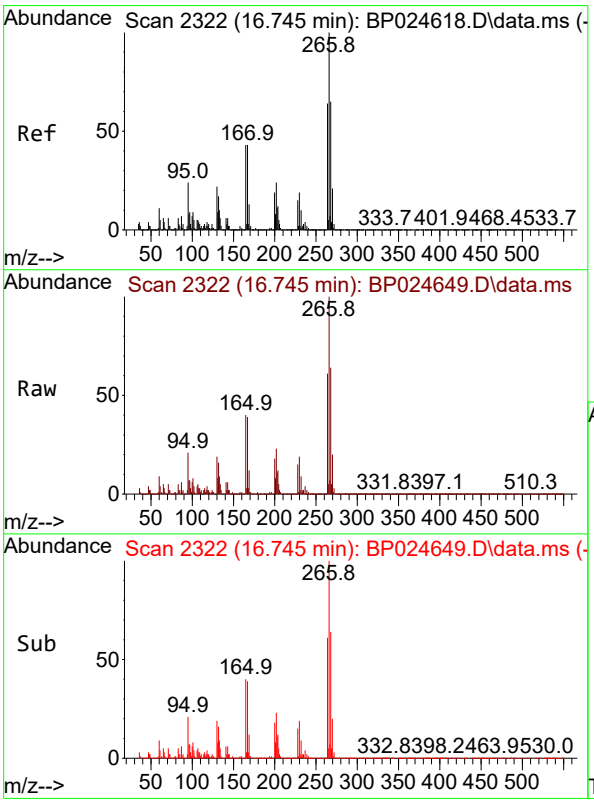
#69
Atrazine
Concen: 39.955 ng
RT: 16.563 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:200 Resp: 490937

Ion	Ratio	Lower	Upper
200	100		
173	25.8	5.9	45.9
215	47.4	28.3	68.3

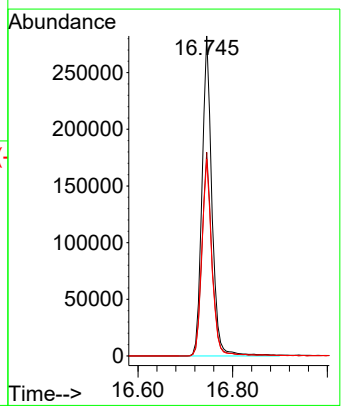


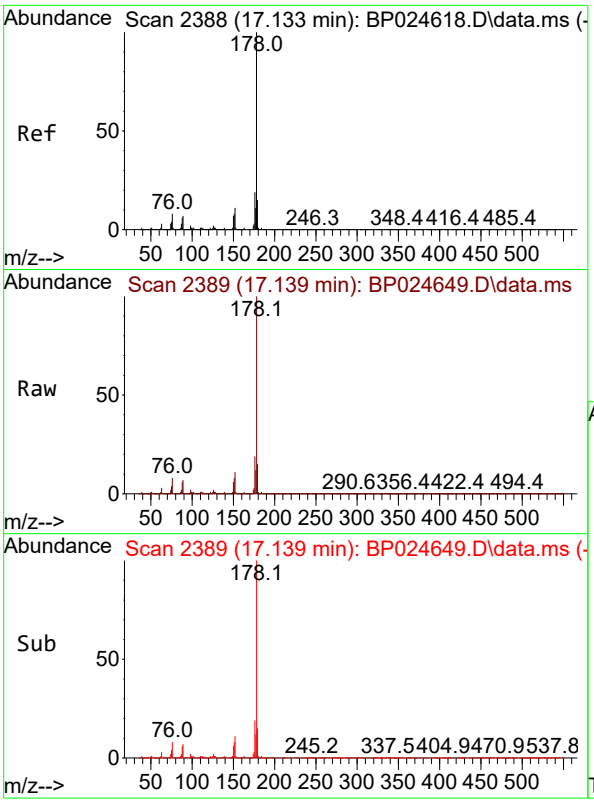


#70
Pentachlorophenol
Concen: 44.631 ng
RT: 16.745 min Scan# 2322
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:266 Resp: 409473

Ion	Ratio	Lower	Upper
266	100		
268	63.6	52.2	78.4
264	61.5	51.1	76.7



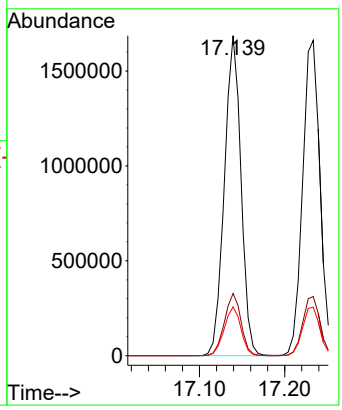


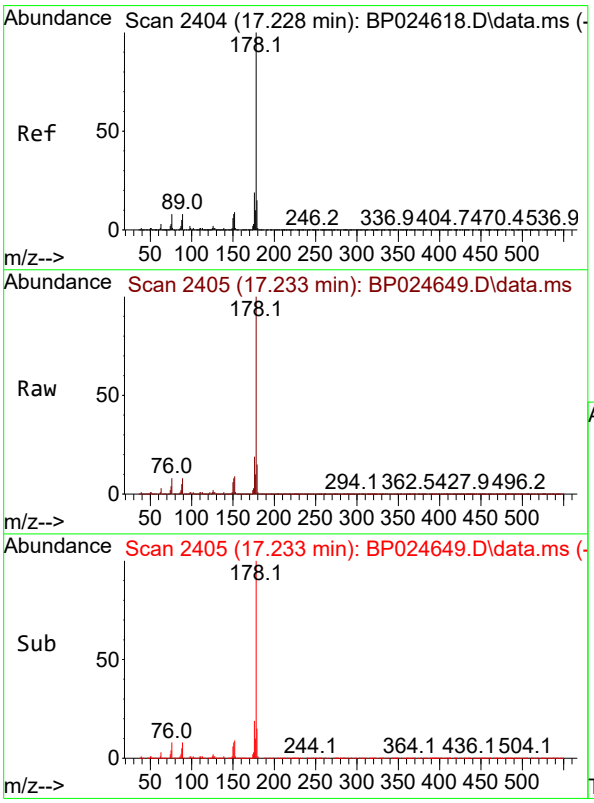
#71
Phenanthrene
Concen: 37.614 ng
RT: 17.139 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:178 Resp: 2282446

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.3	12.2	18.4

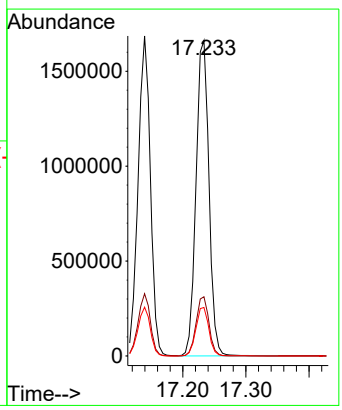


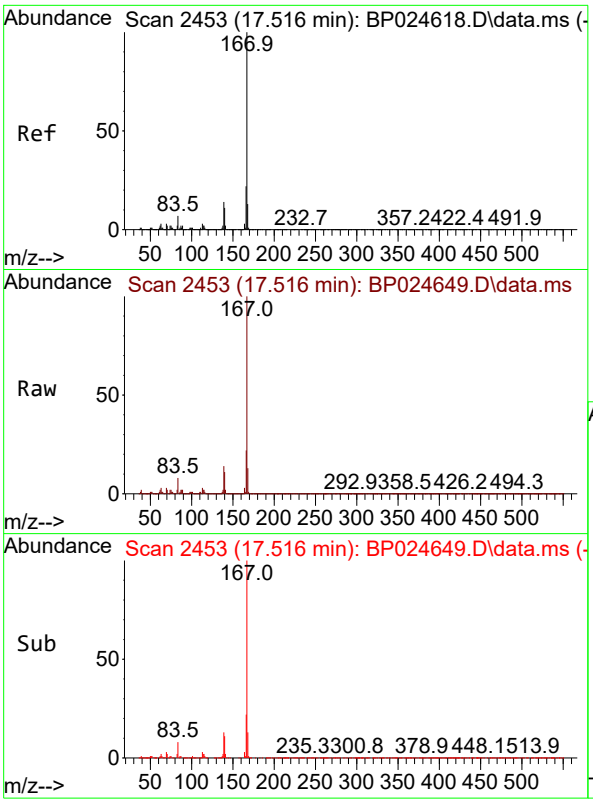


#72
Anthracene
Concen: 38.652 ng
RT: 17.233 min Scan# 2405
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:178 Resp: 2359777

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.4	12.2	18.2



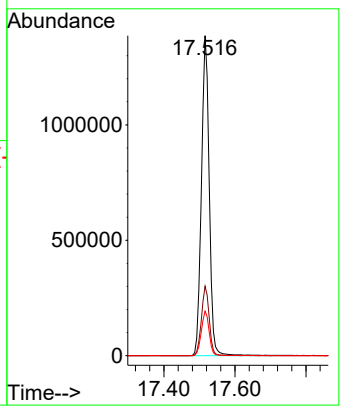


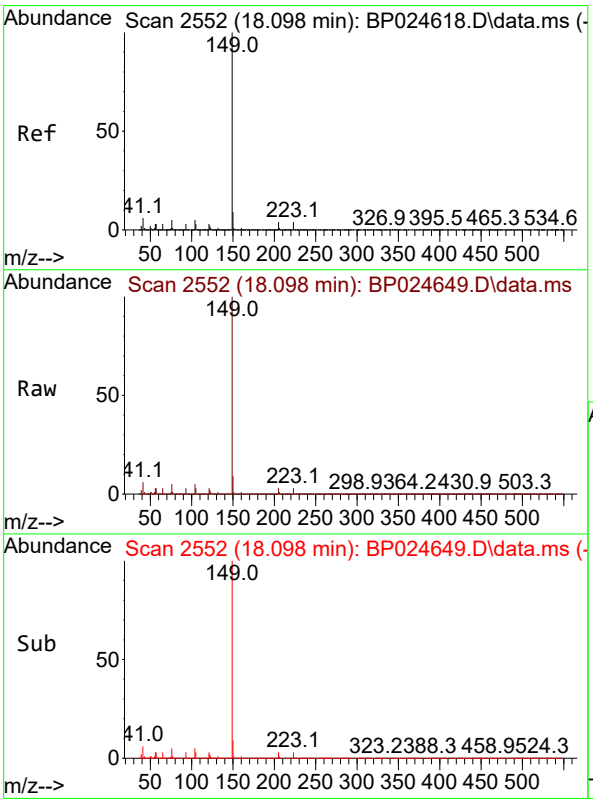
#73
Carbazole
Concen: 38.369 ng
RT: 17.516 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:167 Resp: 2120193

Ion	Ratio	Lower	Upper
167	100		
166	21.7	17.7	26.5
139	13.9	11.3	16.9

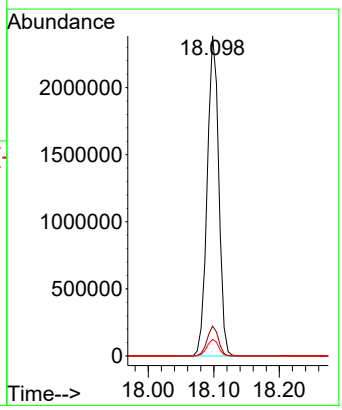


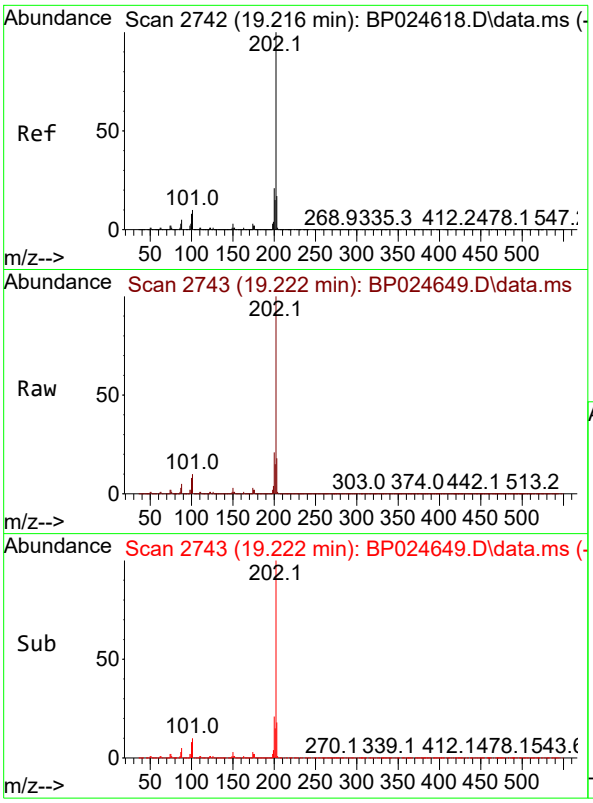


#74
Di-n-butylphthalate
Concen: 40.985 ng
RT: 18.098 min Scan# 2552
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:149 Resp: 2912690

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.2	10.8
104	5.1	4.3	6.5



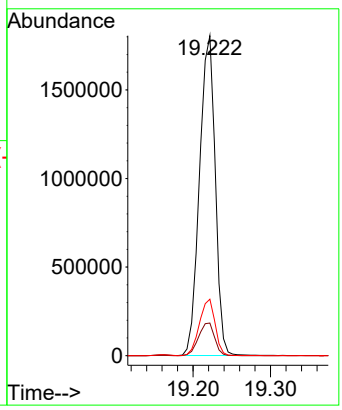


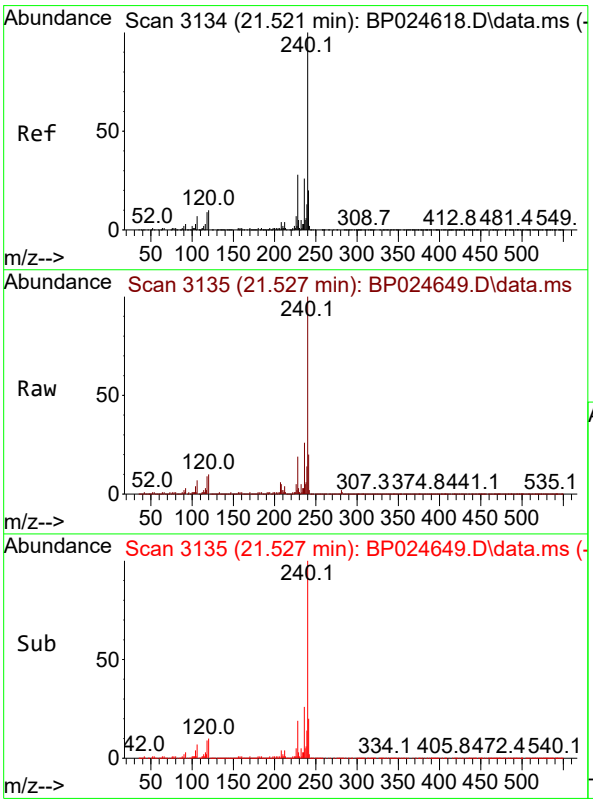
#75
Fluoranthene
Concen: 35.971 ng
RT: 19.222 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:202 Resp: 2551520

Ion	Ratio	Lower	Upper
202	100		
101	10.2	0.0	30.3
203	17.7	0.0	37.5

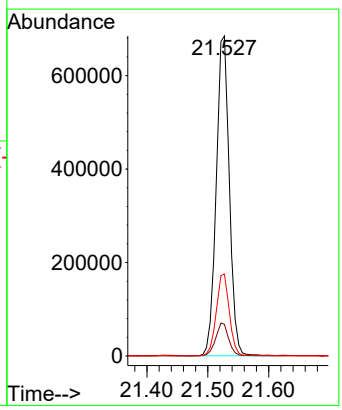


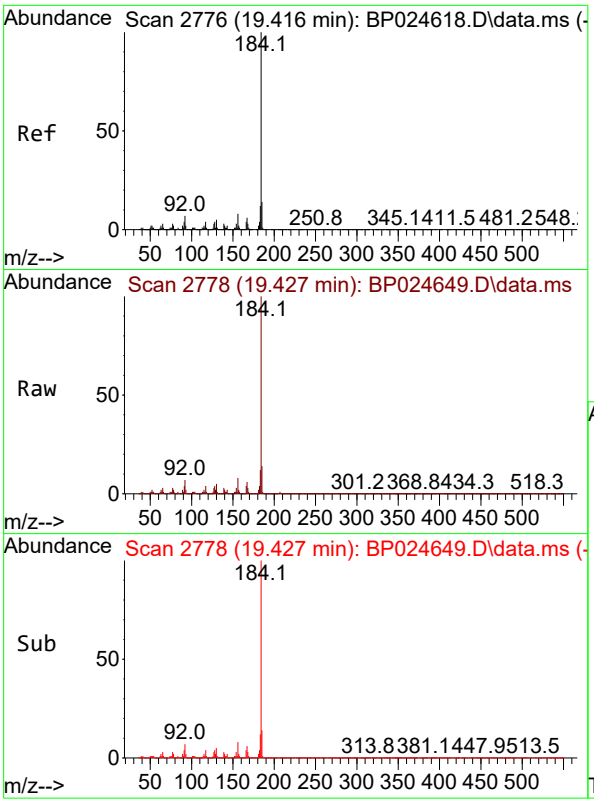


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.527 min Scan# 3135
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:240 Resp: 1022023

Ion	Ratio	Lower	Upper
240	100		
120	9.9	7.8	11.6
236	25.6	20.6	31.0



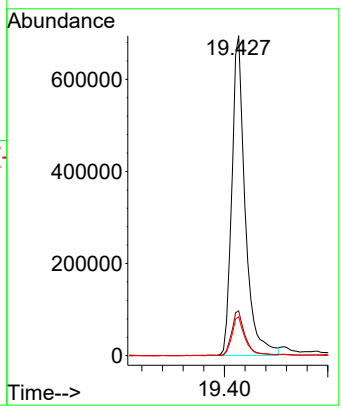


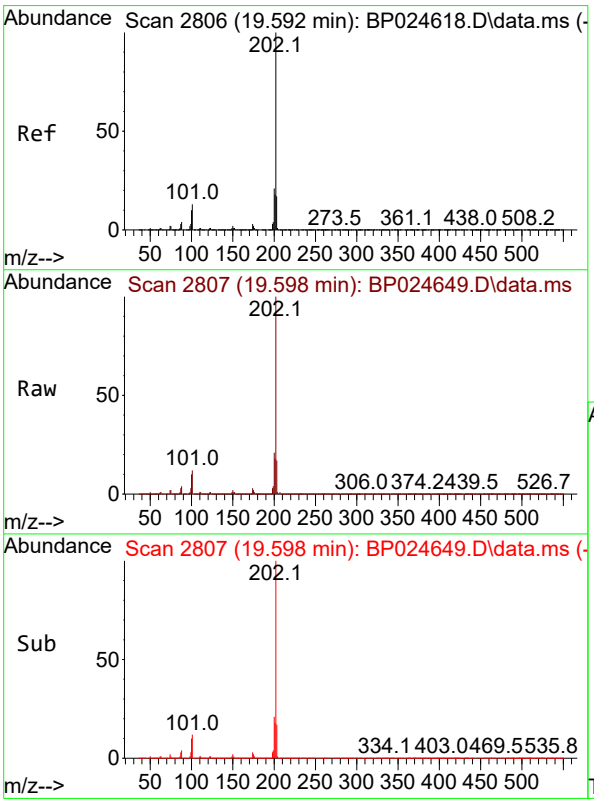
#77
Benzidine
Concen: 44.656 ng
RT: 19.427 min Scan# 2
Delta R.T. 0.011 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:184 Resp: 1243029

Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.2	16.8
183	12.2	9.8	14.8

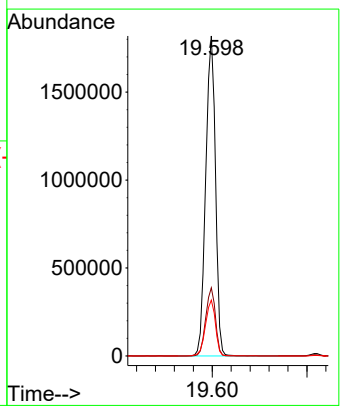


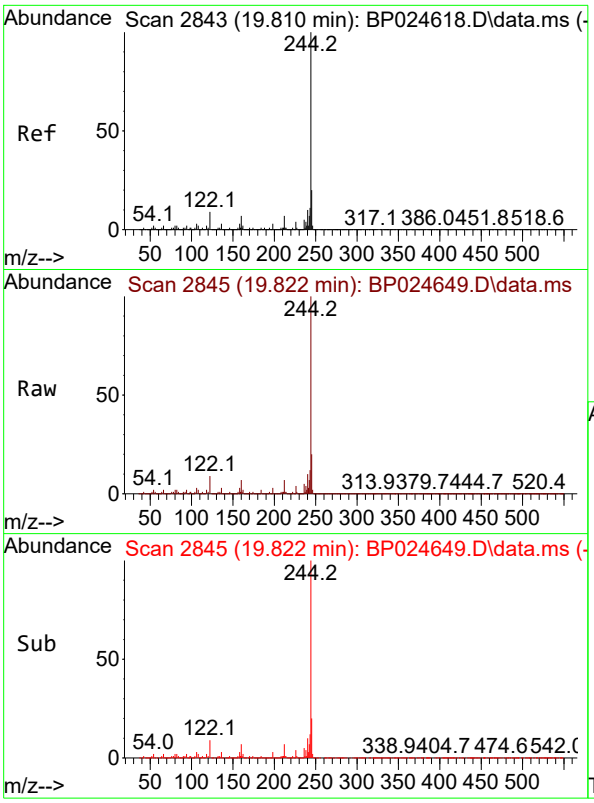


#78
Pyrene
Concen: 42.357 ng
RT: 19.598 min Scan# 2807
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:202 Resp: 2593846

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	17.5	13.9	20.9



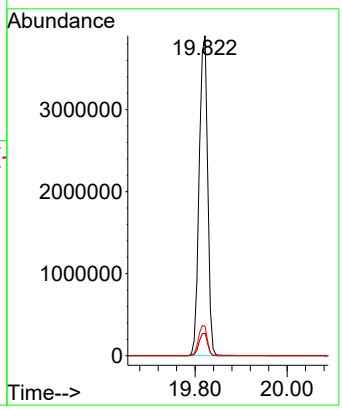


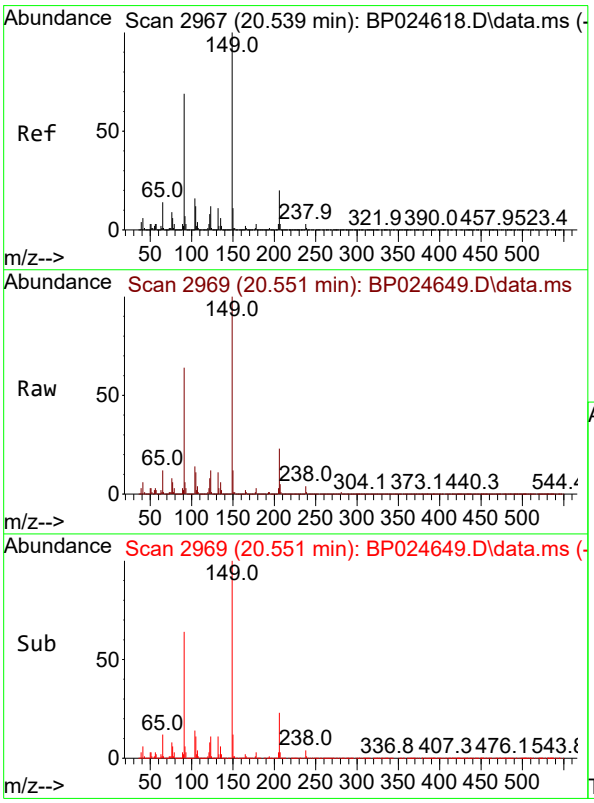
#79
Terphenyl-d14
Concen: 83.720 ng
RT: 19.822 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:244 Resp: 4990002

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	9.2	7.4	11.0

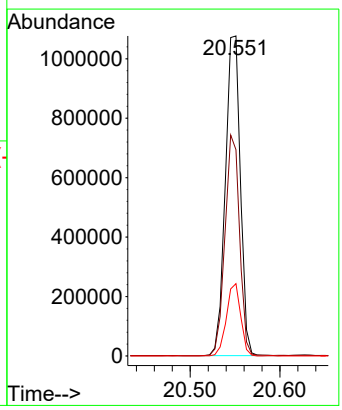


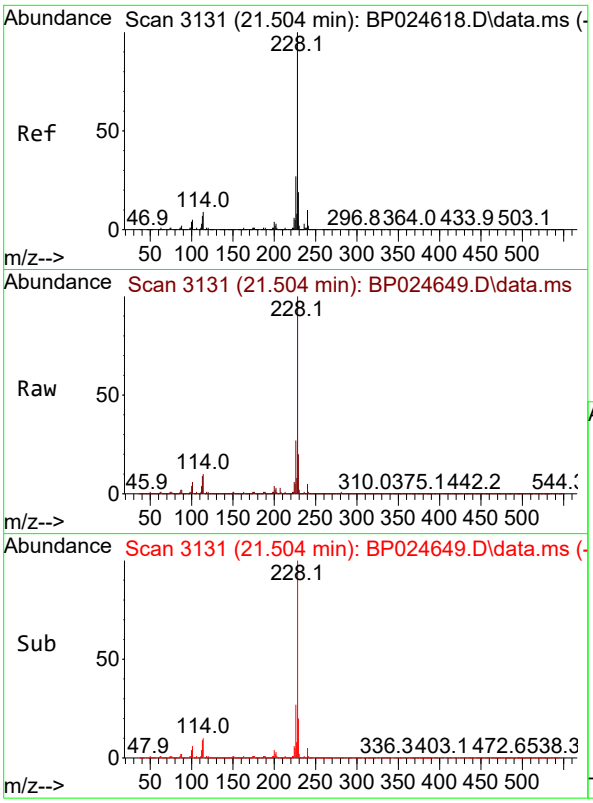


#80
Butylbenzylphthalate
Concen: 45.859 ng
RT: 20.551 min Scan# 2969
Delta R.T. 0.012 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:149 Resp: 1248972

Ion	Ratio	Lower	Upper
149	100		
91	64.5	55.4	83.0
206	22.6	16.2	24.2



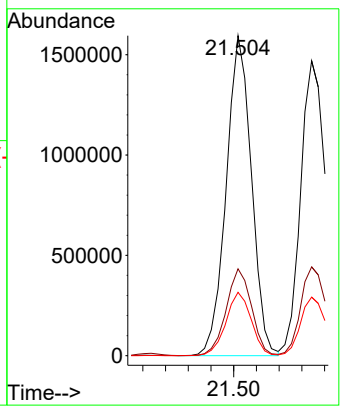


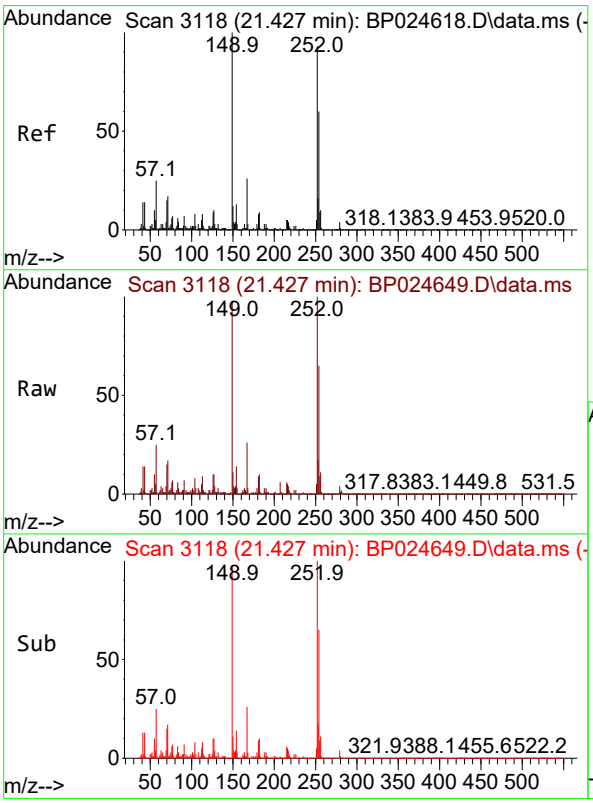
#81
Benzo(a)anthracene
Concen: 38.403 ng
RT: 21.504 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 2464464

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.4	32.0
229	19.8	15.5	23.3

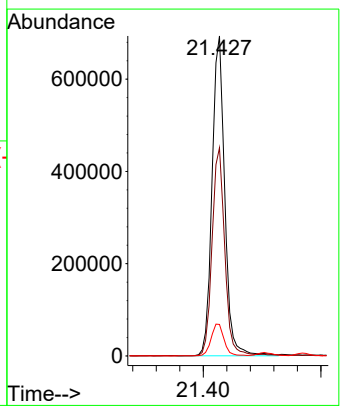


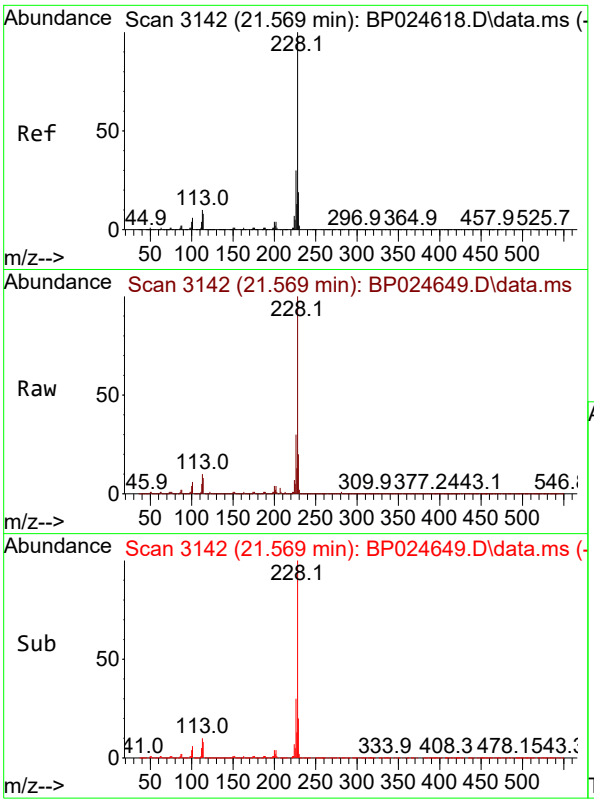


#82
3,3'-Dichlorobenzidine
Concen: 43.565 ng
RT: 21.427 min Scan# 3118
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:252 Resp: 1038409

Ion	Ratio	Lower	Upper
252	100		
254	65.1	51.8	77.6
126	9.9	7.7	11.5



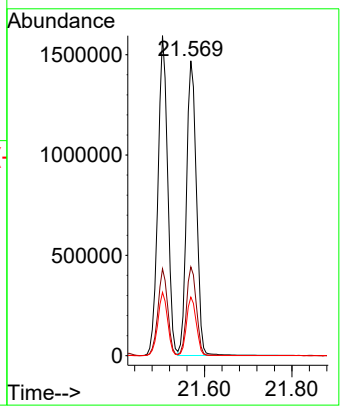


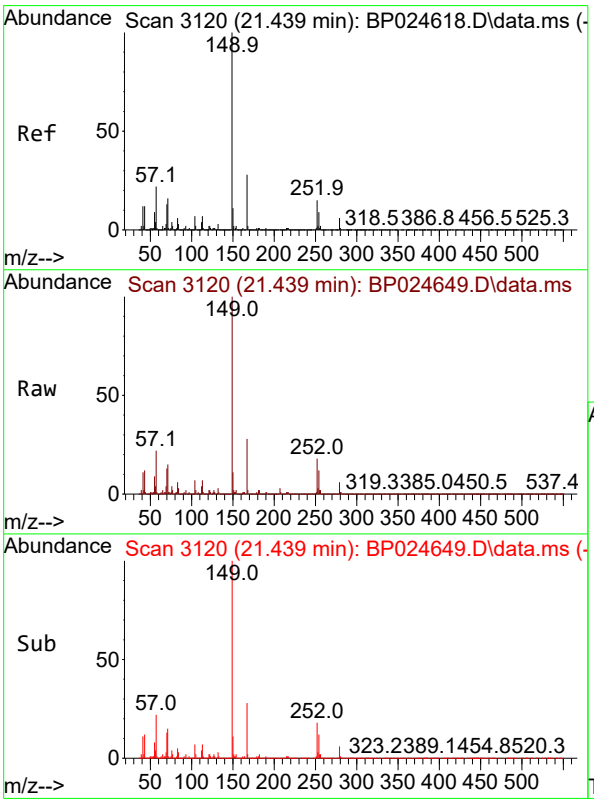
#83
Chrysene
Concen: 37.864 ng
RT: 21.569 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 2303429

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.9	35.9
229	19.9	15.5	23.3

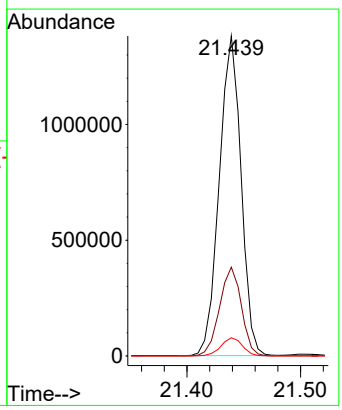


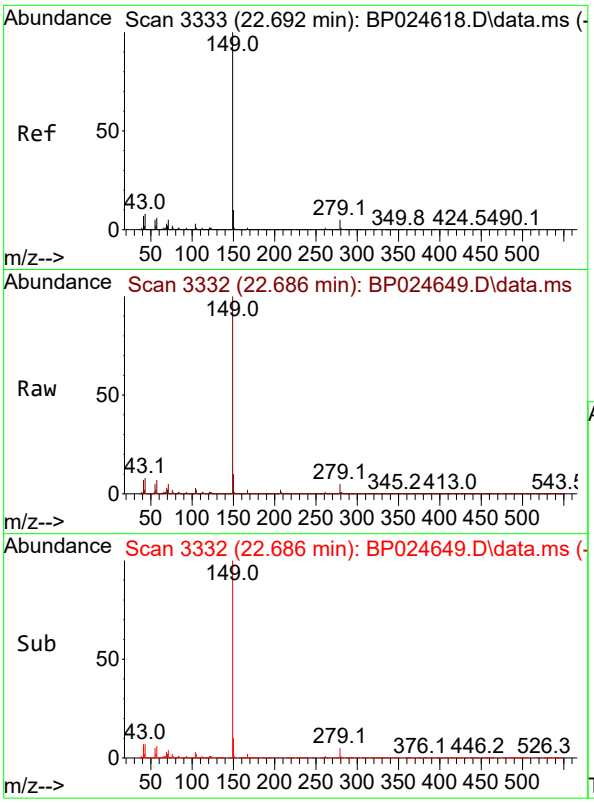


#84
Bis(2-ethylhexyl)phthalate
Concen: 46.010 ng
RT: 21.439 min Scan# 3120
Delta R.T. -0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:149 Resp: 1841778

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.1	33.1
279	5.7	4.6	6.8



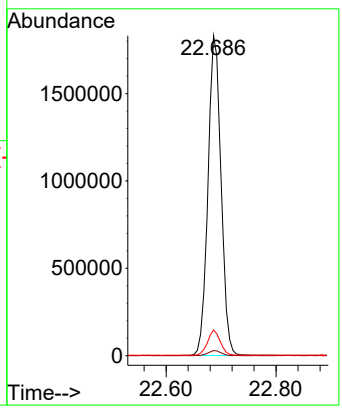


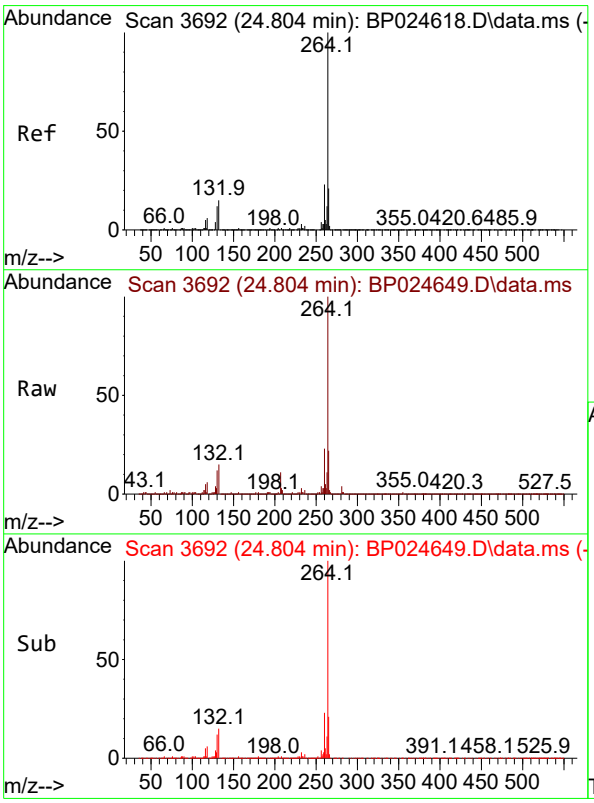
#85
Di-n-octyl phthalate
Concen: 46.097 ng
RT: 22.686 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:149 Resp: 3017546

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.6	6.3	9.5

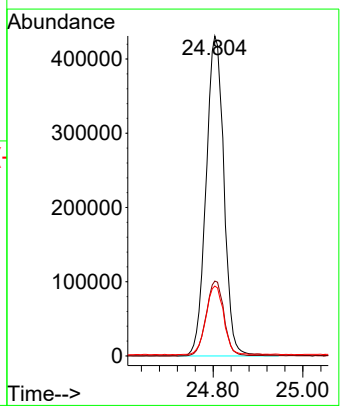


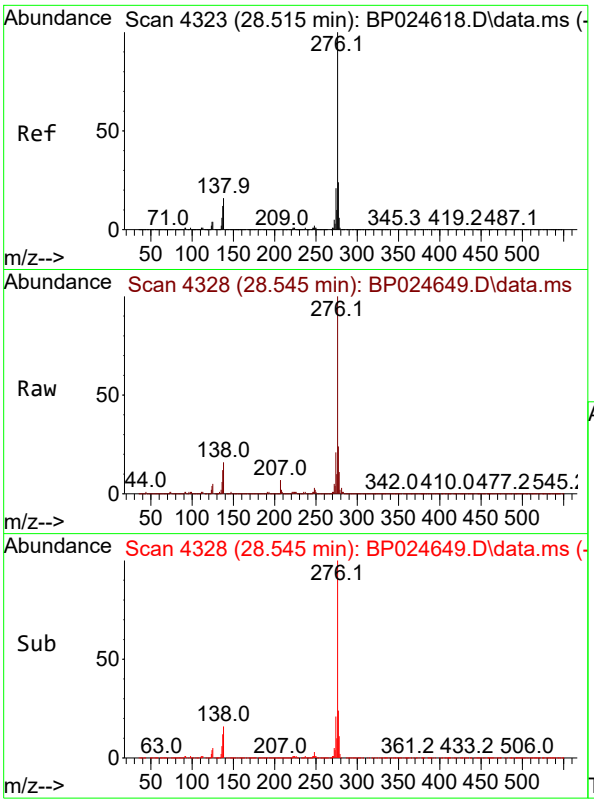


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.804 min Scan# 3692
Delta R.T. 0.000 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:264 Resp: 1190012

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.7	28.1
265	21.9	17.0	25.6



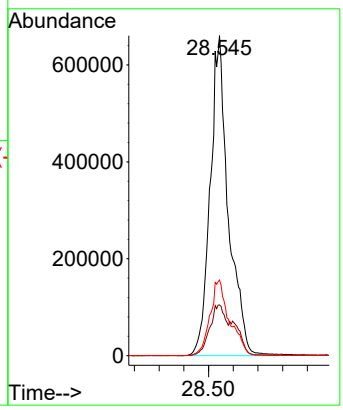


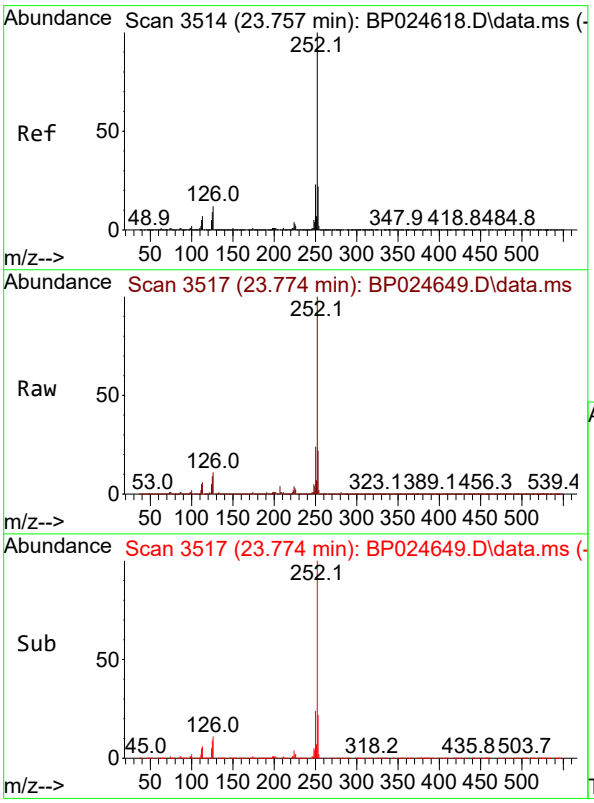
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.832 ng
RT: 28.545 min Scan# 4
Delta R.T. 0.029 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:276 Resp: 3373604

Ion	Ratio	Lower	Upper
276	100		
138	14.1	11.2	16.8
277	25.5	15.7	23.5#

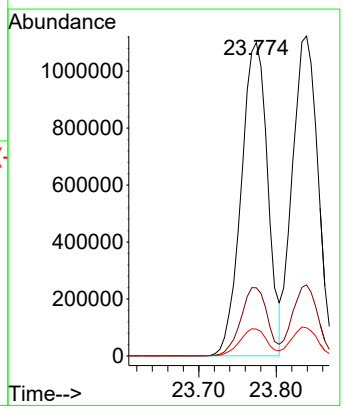


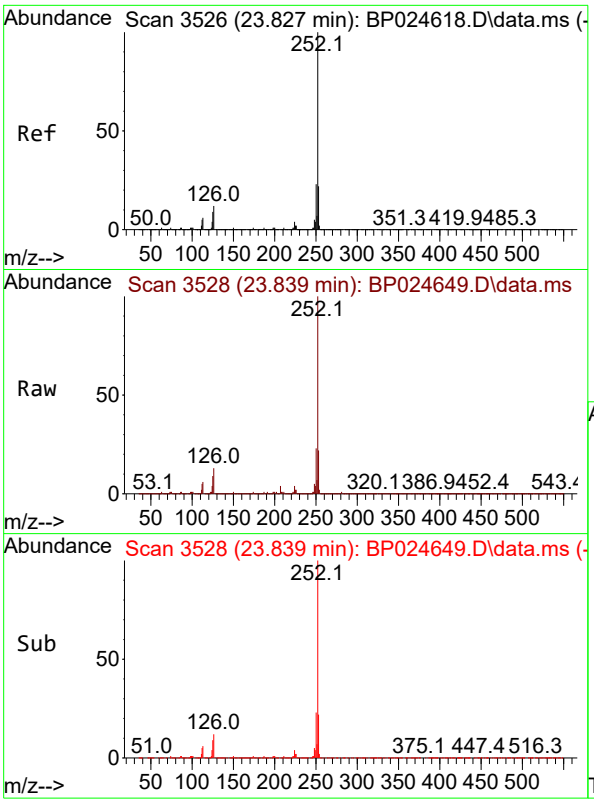


#88
Benzo(b)fluoranthene
Concen: 38.417 ng
RT: 23.774 min Scan# 3517
Delta R.T. 0.018 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:252 Resp: 2616788

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	8.6	7.5	11.3



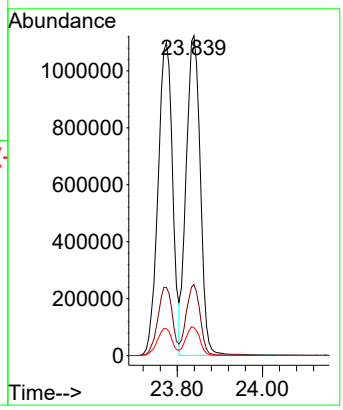


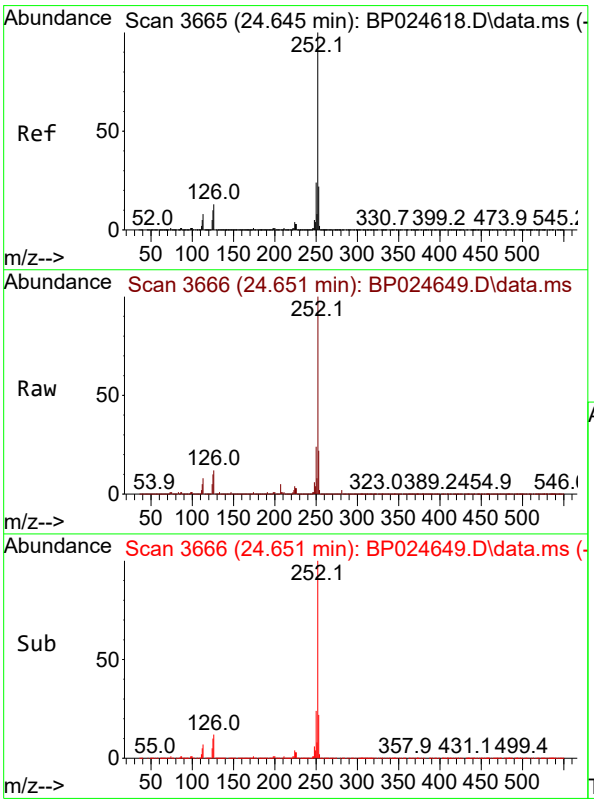
#89
Benzo(k)fluoranthene
Concen: 36.802 ng
RT: 23.839 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:252 Resp: 2583044

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	8.8	7.0	10.4

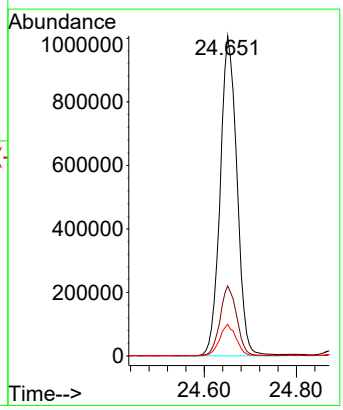


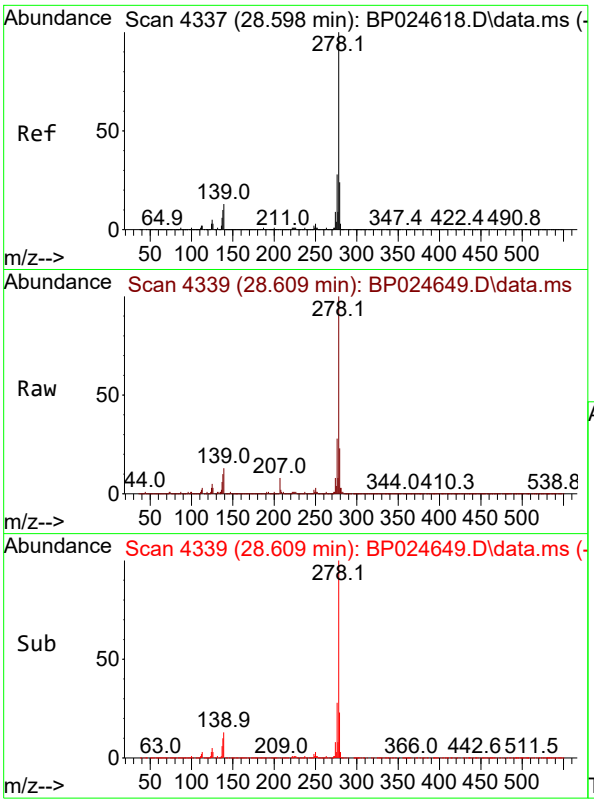


#90
Benzo(a)pyrene
Concen: 38.735 ng
RT: 24.651 min Scan# 3666
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:252 Resp: 2533975

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	9.9	8.1	12.1



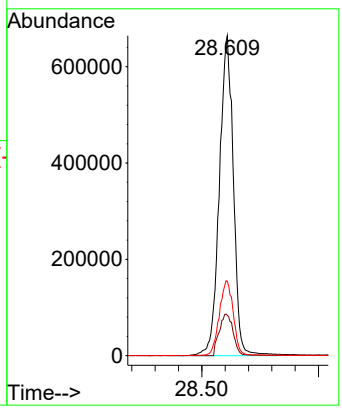


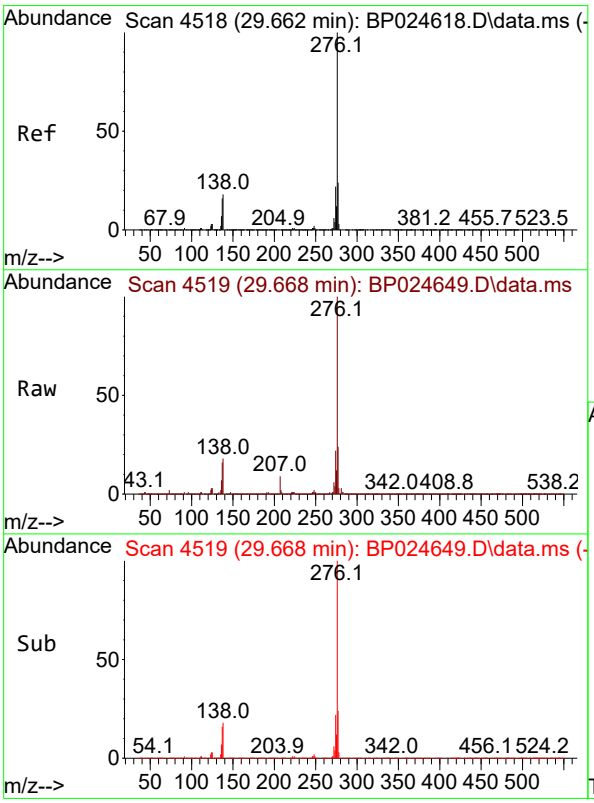
#91
Dibenzo(a,h)anthracene
Concen: 39.155 ng
RT: 28.609 min Scan# 4
Delta R.T. 0.012 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:278 Resp: 2767391

Ion	Ratio	Lower	Upper
278	100		
139	12.6	10.2	15.4
279	23.3	19.0	28.4

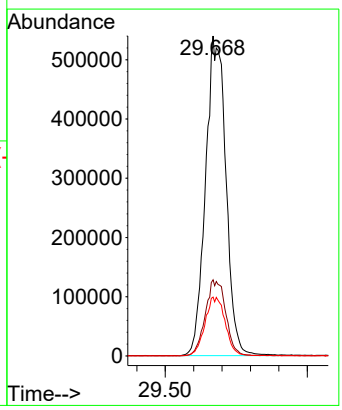




#92
Benzo(g,h,i)perylene
Concen: 38.150 ng
RT: 29.668 min Scan# 4519
Delta R.T. 0.006 min
Lab File: BP024649.D
Acq: 15 May 2025 23:28

Tgt Ion:276 Resp: 2681407

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.4
138	18.4	14.4	21.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024649.D
Acq On : 15 May 2025 23:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 16 01:19:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	192#	0.00
2		1,4-Dioxane	0.549	0.467	14.9	177#	0.00
3		Pyridine	1.218	1.086	10.8	174#	0.00
4		n-Nitrosodimethylamine	0.538	0.479	11.0	178#	0.00
5	S	2-Fluorophenol	1.169	1.146	2.0	199#	0.00
6		Aniline	1.927	1.880	2.4	188#	0.00
7	S	Phenol-d6	1.492	1.464	1.9	191#	0.00
8		2-Chlorophenol	1.327	1.319	0.6	194#	0.00
9		Benzaldehyde	0.966	0.924	4.3	186#	0.00
10	C	Phenol	1.540	1.505	2.3	191#	0.00
11		bis(2-Chloroethyl)ether	1.266	1.171	7.5	185#	0.00
12		1,3-Dichlorobenzene	1.527	1.440	5.7	192#	0.00
13	C	1,4-Dichlorobenzene	1.536	1.458	5.1	190#	0.00
14		1,2-Dichlorobenzene	1.497	1.398	6.6	188#	0.00
15		Benzyl Alcohol	1.134	1.162	-2.5	194#	0.00
16		2,2'-oxybis(1-Chloropropane	1.516	1.380	9.0	181#	0.00
17		2-Methylphenol	1.105	1.078	2.4	188#	0.00
18		Hexachloroethane	0.589	0.523	11.2	182#	0.00
19	P	n-Nitroso-di-n-propylamine	1.032	0.952	7.8	174#	0.01
20		3+4-Methylphenols	1.503	1.467	2.4	186#	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	182#	0.00
22		Acetophenone	0.500	0.468	6.4	176#	0.00
23	S	Nitrobenzene-d5	0.396	0.376	5.1	179#	0.00
24		Nitrobenzene	0.348	0.328	5.7	178#	0.00
25		Isophorone	0.687	0.645	6.1	175#	0.00
26	C	2-Nitrophenol	0.171	0.181	-5.8	192#	0.00
27		2,4-Dimethylphenol	0.301	0.296	1.7	181#	0.00
28		bis(2-Chloroethoxy)methane	0.410	0.384	6.3	175#	0.00
29	C	2,4-Dichlorophenol	0.292	0.293	-0.3	183#	0.00
30		1,2,4-Trichlorobenzene	0.329	0.314	4.6	187#	0.00
31		Naphthalene	1.036	0.968	6.6	180#	0.00
32		Benzoic acid	0.181	0.207	-14.4	197#	0.04
33		4-Chloroaniline	0.418	0.414	1.0	180#	0.00
34	C	Hexachlorobutadiene	0.213	0.200	6.1	184#	0.00
35		Caprolactam	0.106	0.102	3.8	170#	0.02
36	C	4-Chloro-3-methylphenol	0.356	0.332	6.7	169#	0.00
37		2-Methylnaphthalene	0.671	0.628	6.4	178#	0.00
38		1-Methylnaphthalene	0.718	0.658	8.4	173#	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	162#	0.00
40		1,2,4,5-Tetrachlorobenzene	0.581	0.586	-0.9	173#	0.00
41	P	Hexachlorocyclopentadiene	0.352	0.235	33.2#	107	0.00
42	S	2,4,6-Tribromophenol	0.339	0.323	4.7	162#	0.00
43	C	2,4,6-Trichlorophenol	0.376	0.406	-8.0	177#	0.00
44		2,4,5-Trichlorophenol	0.419	0.436	-4.1	175#	0.00
45	S	2-Fluorobiphenyl	1.527	1.489	2.5	169#	0.00
46		1,1'-Biphenyl	1.478	1.458	1.4	171#	0.00
47		2-Chloronaphthalene	1.127	1.114	1.2	170#	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024649.D
Acq On : 15 May 2025 23:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 16 01:19:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	0.334	0.336	-0.6	163#	0.00
49		Acenaphthylene	1.886	1.790	5.1	161#	0.00
50		Dimethylphthalate	1.524	1.421	6.8	159#	0.00
51		2,6-Dinitrotoluene	0.322	0.308	4.3	160#	0.00
52	C	Acenaphthene	1.084	1.023	5.6	161#	0.00
53		3-Nitroaniline	0.329	0.329	0.0	157#	0.00
54	P	2,4-Dinitrophenol	0.169	0.123	27.2#	116	0.00
55		Dibenzofuran	1.730	1.631	5.7	162#	0.00
56	P	4-Nitrophenol	0.250	0.253	-1.2	160#	0.00
57		2,4-Dinitrotoluene	0.454	0.441	2.9	157#	0.00
58		Fluorene	1.410	1.314	6.8	159#	0.00
59		2,3,4,6-Tetrachlorophenol	0.388	0.375	3.4	161#	0.00
60		Diethylphthalate	1.541	1.451	5.8	163#	0.00
61		4-Chlorophenyl-phenylether	0.703	0.665	5.4	165#	0.00
62		4-Nitroaniline	0.317	0.325	-2.5	160#	0.00
63		Azobenzene	1.318	1.223	7.2	159#	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	152#	0.00
65		4,6-Dinitro-2-methylphenol	0.129	0.102	20.9	120	0.00
66	c	n-Nitrosodiphenylamine	0.614	0.613	0.2	157#	0.00
67		4-Bromophenyl-phenylether	0.236	0.242	-2.5	164#	0.00
68		Hexachlorobenzene	0.299	0.294	1.7	159#	0.00
69		Atrazine	0.225	0.225	0.0	157#	0.00
70	C	Pentachlorophenol	0.168	0.188	-11.9	166#	0.00
71		Phenanthrene	1.112	1.045	6.0	151#	0.00
72		Anthracene	1.119	1.081	3.4	153#	0.00
73		Carbazole	1.012	0.971	4.1	148	0.00
74		Di-n-butylphthalate	1.302	1.334	-2.5	161#	0.00
75	C	Fluoranthene	1.300	1.169	10.1	142	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	126	0.00
77		Benzidine	0.545	0.608	-11.6	137	0.01
78		Pyrene	1.198	1.269	-5.9	139	0.00
79	S	Terphenyl-d14	1.166	1.221	-4.7	137	0.01
80		Butylbenzylphthalate	0.533	0.611	-14.6	146	0.01
81		Benzo(a)anthracene	1.256	1.206	4.0	126	0.00
82		3,3'-Dichlorobenzidine	0.466	0.508	-9.0	134	0.00
83		Chrysene	1.190	1.127	5.3	126	0.00
84		Bis(2-ethylhexyl)phthalate	0.783	0.901	-15.1	148	0.00
85	c	Di-n-octyl phthalate	1.281	1.476	-15.2	145	0.00
86	I	Perylene-d12	1.000	1.000	0.0	128	0.00
87		Indeno(1,2,3-cd)pyrene	1.460	1.417	2.9	127	0.03
88		Benzo(b)fluoranthene	1.145	1.099	4.0	128	0.02
89		Benzo(k)fluoranthene	1.180	1.085	8.1	122	0.01
90	C	Benzo(a)pyrene	1.099	1.065	3.1	128	0.00
91		Dibenzo(a,h)anthracene	1.188	1.163	2.1	127	0.01
92		Benzo(g,h,i)perylene	1.181	1.127	4.6	126	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024649.D
Acq On : 15 May 2025 23:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 16 01:19:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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_P\Data\BP051525\
Data File : BP024649.D
Acq On : 15 May 2025 23:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 16 01:19:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	192	0.00
2		1,4-Dioxane	40.000	34.013	15.0	177	0.00
3		Pyridine	40.000	35.679	10.8	174	0.00
4		n-Nitrosodimethylamine	40.000	35.627	10.9	178	0.00
5	S	2-Fluorophenol	80.000	78.377	2.0	199	0.00
6		Aniline	40.000	39.020	2.4	188	0.00
7	S	Phenol-d6	80.000	78.478	1.9	191	0.00
8		2-Chlorophenol	40.000	39.759	0.6	194	0.00
9		Benzaldehyde	40.000	38.252	4.4	186	0.00
10	C	Phenol	40.000	39.082	2.3	191	0.00
11		bis(2-Chloroethyl)ether	40.000	36.996	7.5	185	0.00
12		1,3-Dichlorobenzene	40.000	37.714	5.7	192	0.00
13	C	1,4-Dichlorobenzene	40.000	37.956	5.1	190	0.00
14		1,2-Dichlorobenzene	40.000	37.356	6.6	188	0.00
15		Benzyl Alcohol	40.000	40.996	-2.5	194	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	36.423	8.9	181	0.00
17		2-Methylphenol	40.000	39.018	2.5	188	0.00
18		Hexachloroethane	40.000	35.507	11.2	182	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	36.889	7.8	174	0.01
20		3+4-Methylphenols	40.000	39.045	2.4	186	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	182	0.00
22		Acetophenone	40.000	37.470	6.3	176	0.00
23	S	Nitrobenzene-d5	80.000	75.951	5.1	179	0.00
24		Nitrobenzene	40.000	37.701	5.7	178	0.00
25		Isophorone	40.000	37.591	6.0	175	0.00
26	C	2-Nitrophenol	40.000	42.349	-5.9	192	0.00
27		2,4-Dimethylphenol	40.000	39.364	1.6	181	0.00
28		bis(2-Chloroethoxy)methane	40.000	37.413	6.5	175	0.00
29	C	2,4-Dichlorophenol	40.000	40.144	-0.4	183	0.00
30		1,2,4-Trichlorobenzene	40.000	38.169	4.6	187	0.00
31		Naphthalene	40.000	37.358	6.6	180	0.00
32		Benzoic acid	40.000	40.907	-2.3	197	0.04
33		4-Chloroaniline	40.000	39.613	1.0	180	0.00
34	C	Hexachlorobutadiene	40.000	37.631	5.9	184	0.00
35		Caprolactam	40.000	38.665	3.3	170	0.02
36	C	4-Chloro-3-methylphenol	40.000	37.291	6.8	169	0.00
37		2-Methylnaphthalene	40.000	37.411	6.5	178	0.00
38		1-Methylnaphthalene	40.000	36.632	8.4	173	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	162	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.363	-0.9	173	0.00
41	P	Hexachlorocyclopentadiene	40.000	26.660	33.4#	107	0.00
42	S	2,4,6-Tribromophenol	80.000	76.212	4.7	162	0.00
43	C	2,4,6-Trichlorophenol	40.000	43.120	-7.8	177	0.00
44		2,4,5-Trichlorophenol	40.000	41.607	-4.0	175	0.00
45	S	2-Fluorobiphenyl	80.000	78.028	2.5	169	0.00
46		1,1'-Biphenyl	40.000	39.444	1.4	171	0.00
47		2-Chloronaphthalene	40.000	39.538	1.2	170	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024649.D
Acq On : 15 May 2025 23:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 16 01:19:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	40.236	-0.6	163	0.00
49		Acenaphthylene	40.000	37.956	5.1	161	0.00
50		Dimethylphthalate	40.000	37.291	6.8	159	0.00
51		2,6-Dinitrotoluene	40.000	38.228	4.4	160	0.00
52	C	Acenaphthene	40.000	37.727	5.7	161	0.00
53		3-Nitroaniline	40.000	40.013	-0.0	157	0.00
54	P	2,4-Dinitrophenol	40.000	28.615	28.5#	116	0.00
55		Dibenzofuran	40.000	37.718	5.7	162	0.00
56	P	4-Nitrophenol	40.000	37.883	5.3	160	0.00
57		2,4-Dinitrotoluene	40.000	38.836	2.9	157	0.00
58		Fluorene	40.000	37.279	6.8	159	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	38.666	3.3	161	0.00
60		Diethylphthalate	40.000	37.682	5.8	163	0.00
61		4-Chlorophenyl-phenylether	40.000	37.844	5.4	165	0.00
62		4-Nitroaniline	40.000	41.014	-2.5	160	0.00
63		Azobenzene	40.000	37.109	7.2	159	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	152	0.00
65		4,6-Dinitro-2-methylphenol	40.000	31.450	21.4	120	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.890	0.3	157	0.00
67		4-Bromophenyl-phenylether	40.000	41.141	-2.9	164	0.00
68		Hexachlorobenzene	40.000	39.324	1.7	159	0.00
69		Atrazine	40.000	39.955	0.1	157	0.00
70	C	Pentachlorophenol	40.000	44.631	-11.6	166	0.00
71		Phenanthrene	40.000	37.614	6.0	151	0.00
72		Anthracene	40.000	38.652	3.4	153	0.00
73		Carbazole	40.000	38.369	4.1	148	0.00
74		Di-n-butylphthalate	40.000	40.985	-2.5	161	0.00
75	C	Fluoranthene	40.000	35.971	10.1	142	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	126	0.00
77		Benzidine	40.000	44.656	-11.6	137	0.01
78		Pyrene	40.000	42.357	-5.9	139	0.00
79	S	Terphenyl-d14	80.000	83.720	-4.6	137	0.01
80		Butylbenzylphthalate	40.000	45.859	-14.6	146	0.01
81		Benzo(a)anthracene	40.000	38.403	4.0	126	0.00
82		3,3'-Dichlorobenzidine	40.000	43.565	-8.9	134	0.00
83		Chrysene	40.000	37.864	5.3	126	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	46.010	-15.0	148	0.00
85	c	Di-n-octyl phthalate	40.000	46.097	-15.2	145	0.00
86	I	Perylene-d12	20.000	20.000	0.0	128	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	38.832	2.9	127	0.03
88		Benzo(b)fluoranthene	40.000	38.417	4.0	128	0.02
89		Benzo(k)fluoranthene	40.000	36.802	8.0	122	0.01
90	C	Benzo(a)pyrene	40.000	38.735	3.2	128	0.00
91		Dibenzo(a,h)anthracene	40.000	39.155	2.1	127	0.01
92		Benzo(g,h,i)perylene	40.000	38.150	4.6	126	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024649.D
Acq On : 15 May 2025 23:28
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 16 01:19:33 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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: NOBI03

Lab Code: CHEM Case No.: Q1984 SAS No.: Q1984 SDG No.: Q1984

Instrument ID: BNA_P Calibration Date/Time: 05/20/2025 11:52

Lab File ID: BP024703.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:41 15:26

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.169	1.129		-3.4	
Phenol-d6	1.492	1.410		-5.5	
Nitrobenzene-d5	0.396	0.375		-5.3	
Naphthalene	1.036	0.995		-4.0	
2-Methylnaphthalene	0.671	0.634		-5.5	
2-Fluorobiphenyl	1.527	1.512		-1.0	
Acenaphthylene	1.886	1.792		-5.0	
Acenaphthene	1.084	1.035		-4.5	20.0
Fluorene	1.410	1.354		-4.0	
2,4,6-Tribromophenol	0.339	0.348		2.7	
Phenanthrene	1.112	1.065		-4.2	
Anthracene	1.119	1.093		-2.3	
Fluoranthene	1.300	1.234		-5.1	20.0
Pyrene	1.198	1.171		-2.3	
Terphenyl-d14	1.166	1.167		0.1	
Benzo(a)anthracene	1.256	1.210		-3.7	
Chrysene	1.190	1.135		-4.6	
Benzo(b)fluoranthene	1.145	1.102		-3.8	
Benzo(k)fluoranthene	1.180	1.133		-4.0	
Benzo(a)pyrene	1.099	1.069		-2.7	20.0
Indeno(1,2,3-cd)pyrene	1.460	1.420		-2.7	
Dibenzo(a,h)anthracene	1.188	1.154		-2.9	
Benzo(g,h,i)perylene	1.181	1.129		-4.4	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024703.D
Acq On : 20 May 2025 11:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: May 20 12:59:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.657	152	123667	20.000	ng		0.00
21) Naphthalene-d8	10.428	136	504753	20.000	ng		0.00
39) Acenaphthene-d10	14.287	164	316846	20.000	ng		-0.02
64) Phenanthrene-d10	17.081	188	620396	20.000	ng		-0.02
76) Chrysene-d12	21.516	240	679929	20.000	ng		0.00
86) Perylene-d12	24.798	264	792201	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.293	112	558471	77.239	ng		0.00
7) Phenol-d6	6.858	99	697511	75.586	ng		0.00
23) Nitrobenzene-d5	8.804	82	758074	75.884	ng		0.00
42) 2,4,6-Tribromophenol	15.804	330	441081	82.116	ng		0.00
45) 2-Fluorobiphenyl	12.893	172	1916443	79.243	ng		-0.01
79) Terphenyl-d14	19.810	244	3174042	80.045	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.222	88	121113	35.672	ng		99
3) Pyridine	3.622	79	281565	37.400	ng		98
4) n-Nitrosodimethylamine	3.528	42	126280	37.995	ng		94
6) Aniline	6.999	93	436222	36.614	ng		99
8) 2-Chlorophenol	7.234	128	316592	38.571	ng		98
9) Benzaldehyde	6.810	77	218883	36.642	ng		99
10) Phenol	6.887	94	350820	36.834	ng		96
11) bis(2-Chloroethyl)ether	7.093	93	275441	35.195	ng		98
12) 1,3-Dichlorobenzene	7.546	146	358557	37.969	ng		99
13) 1,4-Dichlorobenzene	7.693	146	361848	38.098	ng		100
14) 1,2-Dichlorobenzene	8.005	146	350515	37.873	ng		99
15) Benzyl Alcohol	7.905	79	266818	38.049	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.181	45	331428	35.362	ng		99
17) 2-Methylphenol	8.116	107	252873	37.017	ng		97
18) Hexachloroethane	8.716	117	134692	37.007	ng		95
19) n-Nitroso-di-n-propyla...	8.457	70	226226	35.440	ng		99
20) 3+4-Methylphenols	8.440	107	341536	36.755	ng		99
22) Acetophenone	8.475	105	475992	37.752	ng	#	99
24) Nitrobenzene	8.846	77	332647	37.838	ng		96
25) Isophorone	9.369	82	630069	36.360	ng		98
26) 2-Nitrophenol	9.552	139	180007	41.786	ng		99
27) 2,4-Dimethylphenol	9.622	122	298599	39.314	ng		99
28) bis(2-Chloroethoxy)met...	9.840	93	370445	35.782	ng		100
29) 2,4-Dichlorophenol	10.104	162	291338	39.583	ng		96
30) 1,2,4-Trichlorobenzene	10.287	180	329782	39.761	ng		95
31) Naphthalene	10.475	128	1004479	38.402	ng		99
32) Benzoic acid	9.793	122	177252	35.775	ng		96
33) 4-Chloroaniline	10.593	127	412703	39.100	ng		99
34) Hexachlorobutadiene	10.757	225	213441	39.725	ng		97
35) Caprolactam	11.393	113	99335	37.303	ng		99
36) 4-Chloro-3-methylphenol	11.740	107	340527	37.939	ng		97
37) 2-Methylnaphthalene	12.087	142	640384	37.810	ng		99
38) 1-Methylnaphthalene	12.310	142	679915	37.519	ng		100
40) 1,2,4,5-Tetrachloroben...	12.463	216	369584	40.169	ng		99
41) Hexachlorocyclopentadiene	12.440	237	222383	39.860	ng		97
43) 2,4,6-Trichlorophenol	12.716	196	243302	40.826	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024703.D
Acq On : 20 May 2025 11:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: May 20 12:59:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

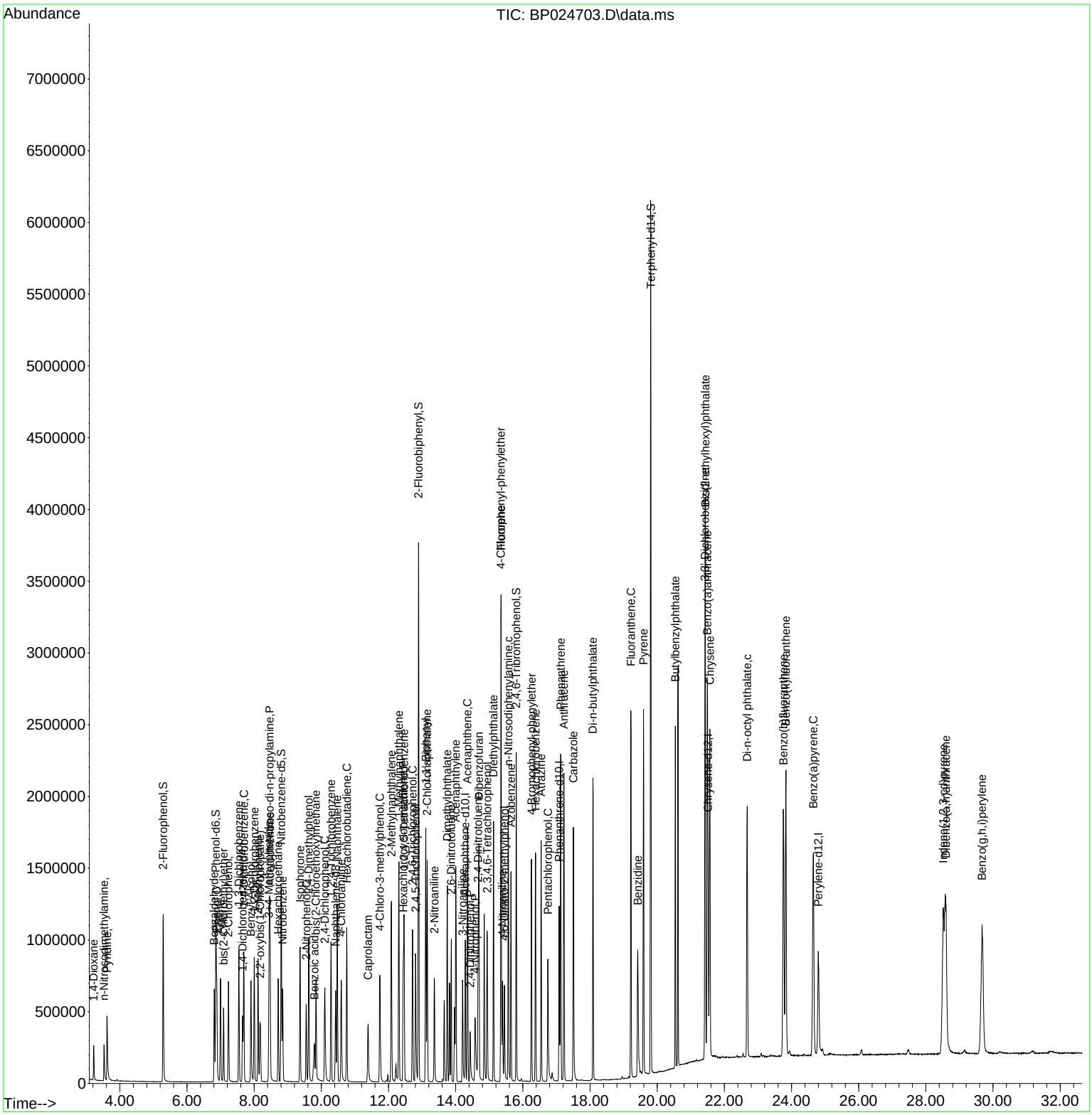
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	2,4,5-Trichlorophenol	12.810	196	270865	40.832	ng		97
46)	1,1'-Biphenyl	13.110	154	899673	38.417	ng		99
47)	2-Chloronaphthalene	13.151	162	695128	38.930	ng		99
48)	2-Nitroaniline	13.363	65	203001	38.400	ng		98
49)	Acenaphthylene	14.004	152	1135762	38.009	ng		100
50)	Dimethylphthalate	13.751	163	895032	37.061	ng		100
51)	2,6-Dinitrotoluene	13.869	165	197446	38.712	ng		98
52)	Acenaphthene	14.351	154	656098	38.193	ng		100
53)	3-Nitroaniline	14.204	138	199441	38.296	ng		99
54)	2,4-Dinitrophenol	14.434	184	101110	35.323	ng		97
55)	Dibenzofuran	14.692	168	1048113	38.252	ng		99
56)	4-Nitrophenol	14.581	139	202652	46.802	ng		97
57)	2,4-Dinitrotoluene	14.669	165	279529	38.874	ng		99
58)	Fluorene	15.351	166	857836	38.395	ng		99
59)	2,3,4,6-Tetrachlorophenol	14.939	232	241572	39.256	ng		97
60)	Diethylphthalate	15.128	149	911477	37.342	ng		99
61)	4-Chlorophenyl-phenyle...	15.345	204	430331	38.622	ng		99
62)	4-Nitroaniline	15.392	138	189242	37.633	ng		98
63)	Azobenzene	15.645	77	752861	36.055	ng		97
65)	4,6-Dinitro-2-methylph...	15.451	198	158899	39.652	ng		97
66)	n-Nitrosodiphenylamine	15.569	169	740115	38.839	ng		98
67)	4-Bromophenyl-phenylether	16.257	248	295412	40.410	ng		97
68)	Hexachlorobenzene	16.381	284	370994	39.938	ng		94
69)	Atrazine	16.545	200	277598	39.750	ng		99
70)	Pentachlorophenol	16.745	266	204812	39.278	ng		100
71)	Phenanthrene	17.128	178	1321707	38.323	ng		100
72)	Anthracene	17.222	178	1355916	39.076	ng		100
73)	Carbazole	17.504	167	1198207	38.152	ng		100
74)	Di-n-butylphthalate	18.086	149	1566966	38.795	ng		100
75)	Fluoranthene	19.216	202	1531668	37.992	ng		99
77)	Benzidine	19.422	184	725976	39.203	ng		99
78)	Pyrene	19.592	202	1591992	39.077	ng		100
80)	Butylbenzylphthalate	20.539	149	716477	39.544	ng		96
81)	Benzo(a)anthracene	21.492	228	1645382	38.539	ng		99
82)	3,3'-Dichlorobenzidine	21.421	252	646986	40.800	ng		100
83)	Chrysene	21.569	228	1543547	38.139	ng		100
84)	Bis(2-ethylhexyl)phtha...	21.433	149	1039093	39.018	ng		99
85)	Di-n-octyl phthalate	22.680	149	1753560	40.266	ng		99
87)	Indeno(1,2,3-cd)pyrene	28.515	276	2249969	38.903	ng	#	87
88)	Benzo(b)fluoranthene	23.757	252	1745599	38.496	ng		99
89)	Benzo(k)fluoranthene	23.833	252	1794614	38.409	ng		99
90)	Benzo(a)pyrene	24.651	252	1693647	38.890	ng		99
91)	Dibenzo(a,h)anthracene	28.598	278	1829060	38.874	ng		99
92)	Benzo(g,h,i)perylene	29.674	276	1788388	38.222	ng		98

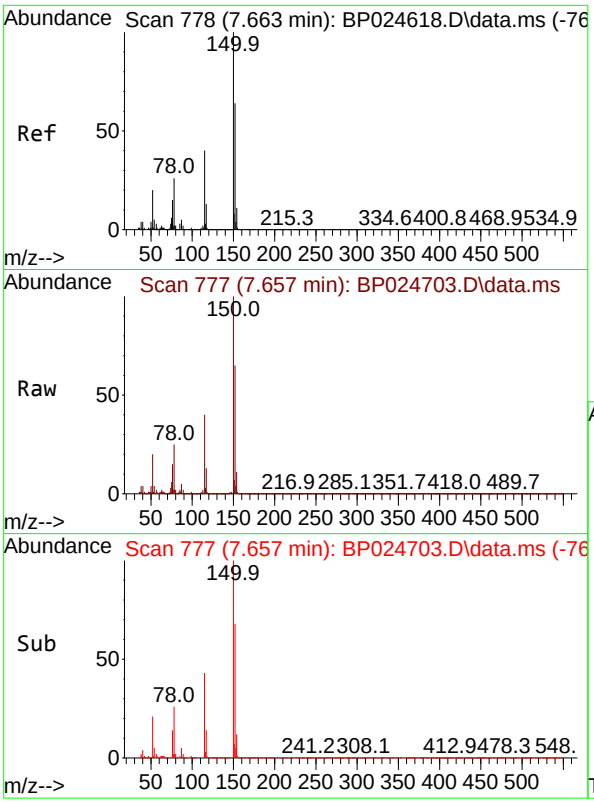
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024703.D
Acq On : 20 May 2025 11:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: May 20 12:59:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



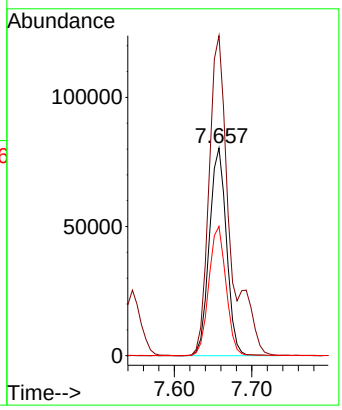


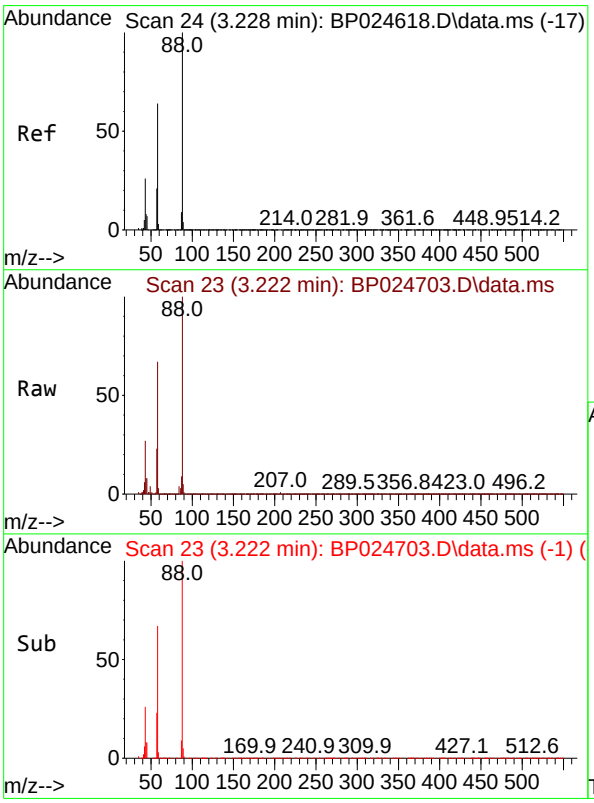
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.657 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 123667

Ion	Ratio	Lower	Upper
152	100		
150	154.0	125.9	188.9
115	62.3	50.1	75.1

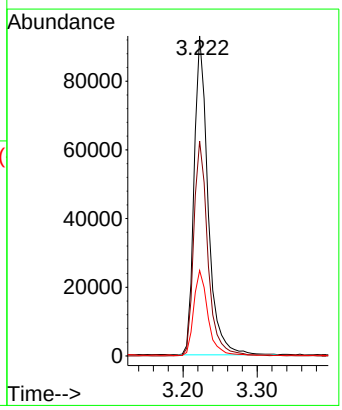


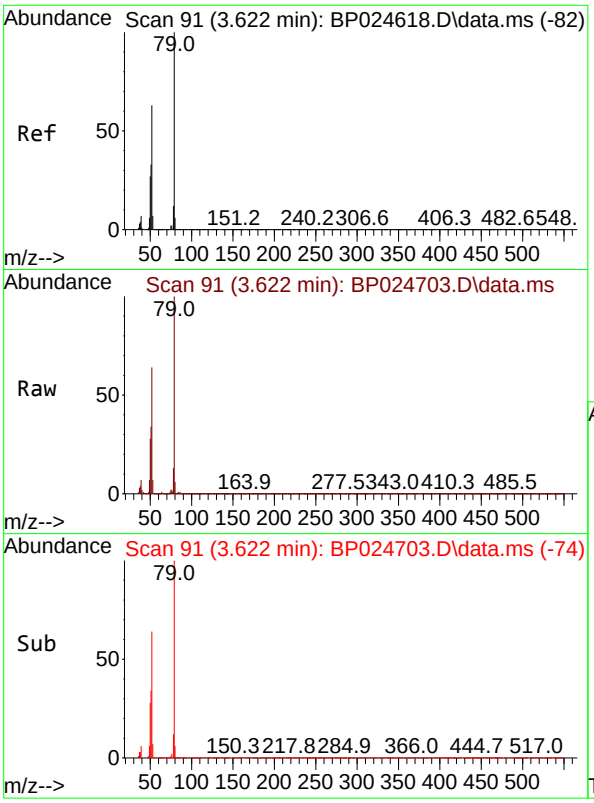


#2
1,4-Dioxane
Concen: 35.672 ng
RT: 3.222 min Scan# 23
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion: 88 Resp: 121113

Ion	Ratio	Lower	Upper
88	100		
58	68.3	54.0	81.0
43	27.3	21.4	32.0



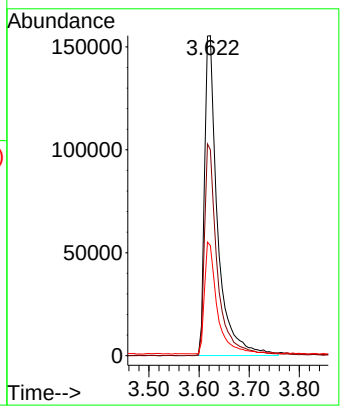


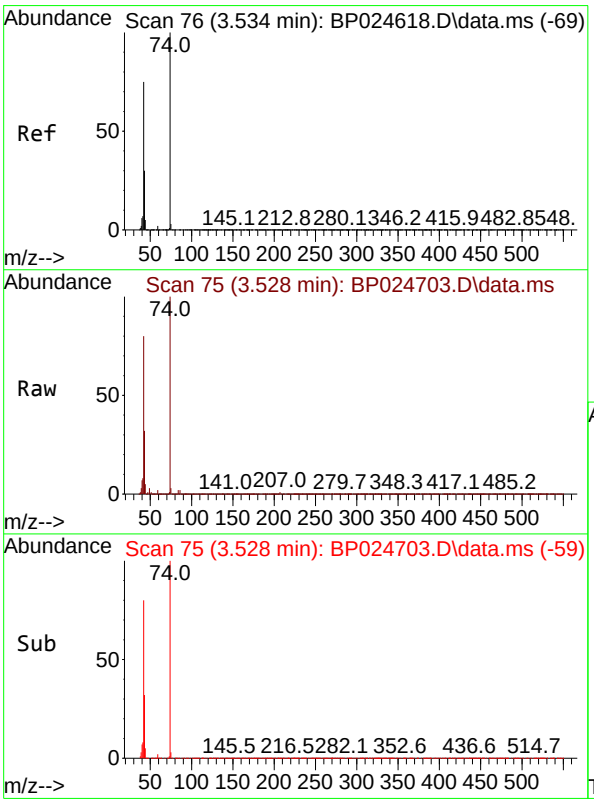
#3
Pyridine
Concen: 37.400 ng
RT: 3.622 min Scan# 91
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 281565

Ion	Ratio	Lower	Upper
79	100		
52	64.4	50.2	75.2
51	34.4	26.8	40.2

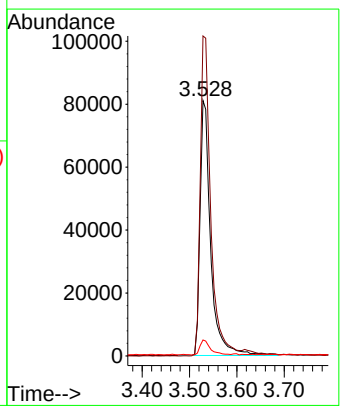


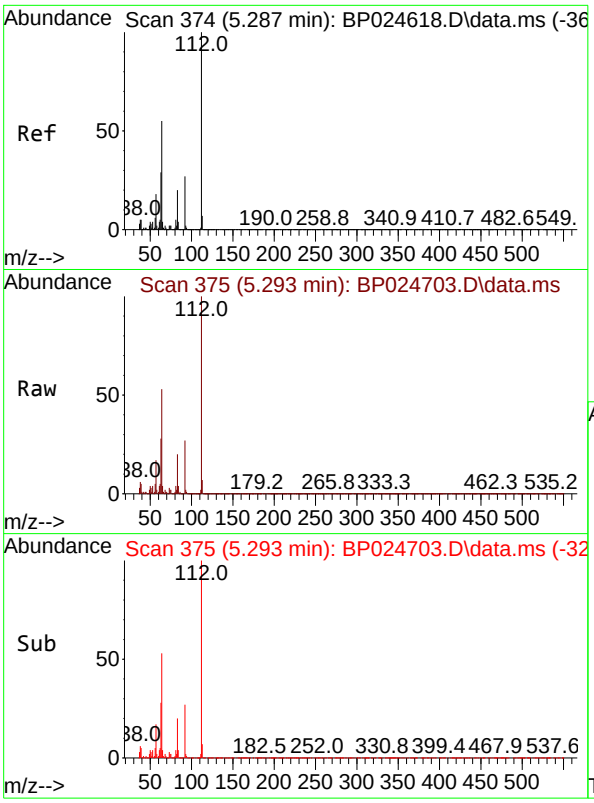


#4
n-Nitrosodimethylamine
Concen: 37.995 ng
RT: 3.528 min Scan# 75
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion: 42 Resp: 126280

Ion	Ratio	Lower	Upper
42	100		
74	125.3	106.2	159.2
44	6.3	5.4	8.2



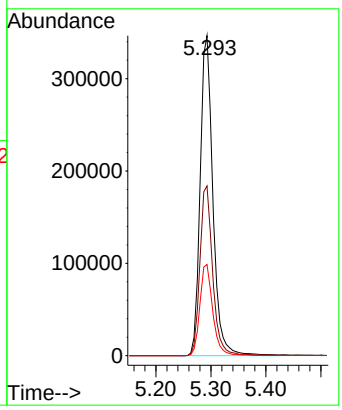


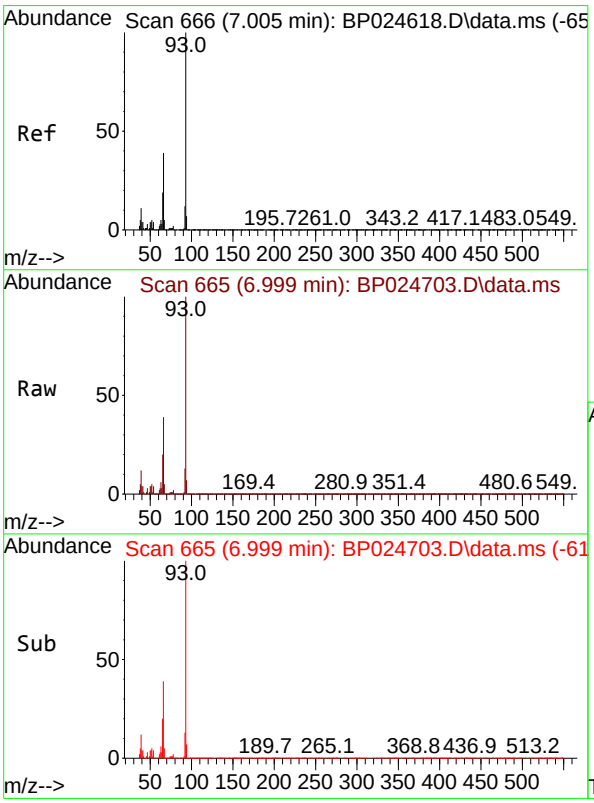
#5
2-Fluorophenol
Concen: 77.239 ng
RT: 5.293 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 558471

Ion	Ratio	Lower	Upper
112	100		
64	53.1	44.1	66.1
63	28.5	23.5	35.3

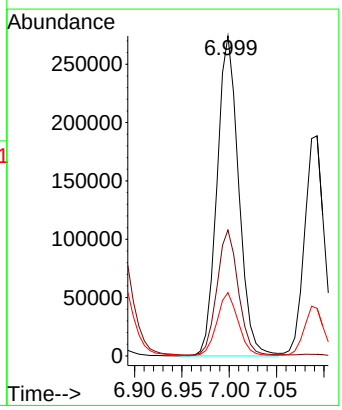


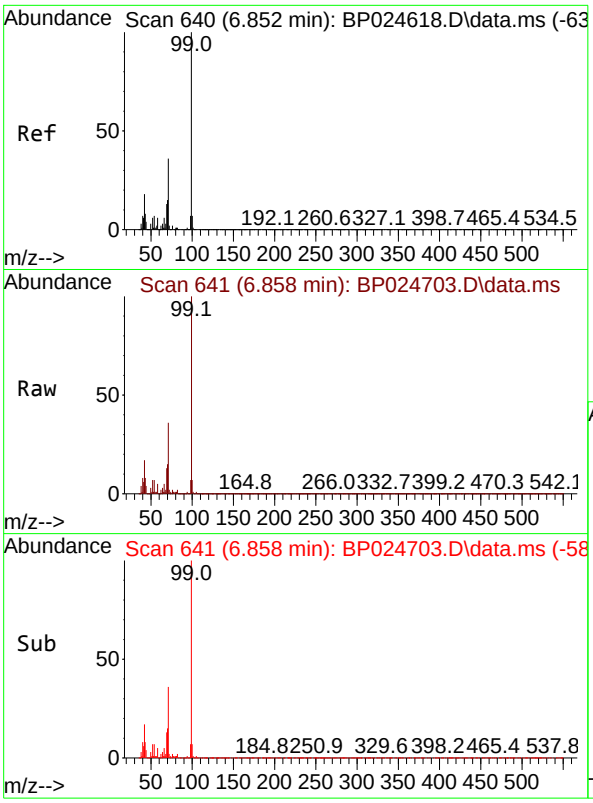


#6
Aniline
Concen: 36.614 ng
RT: 6.999 min Scan# 665
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion: 93 Resp: 436222

Ion	Ratio	Lower	Upper
93	100		
66	39.3	31.0	46.6
65	19.8	15.5	23.3



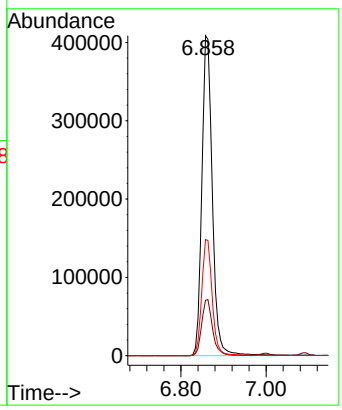


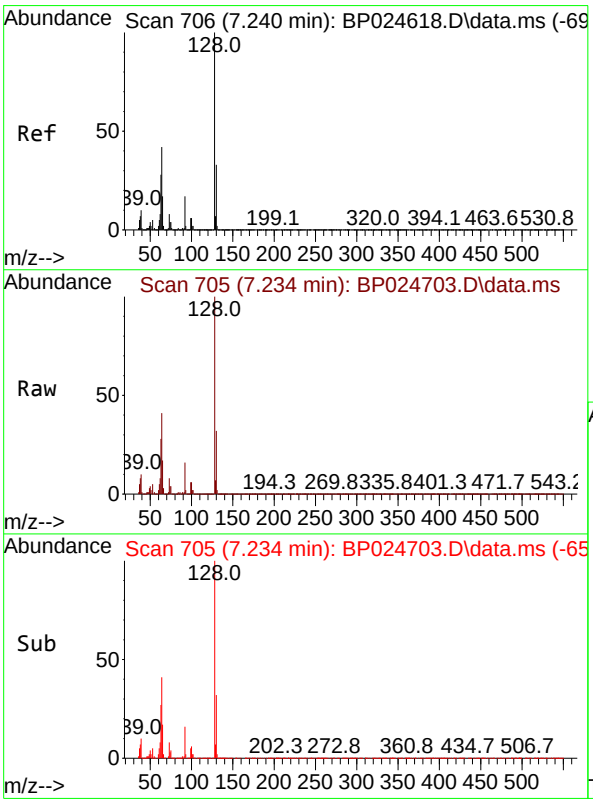
#7
Phenol-d6
Concen: 75.586 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 697511

Ion	Ratio	Lower	Upper
99	100		
42	17.4	14.4	21.6
71	36.3	29.2	43.8

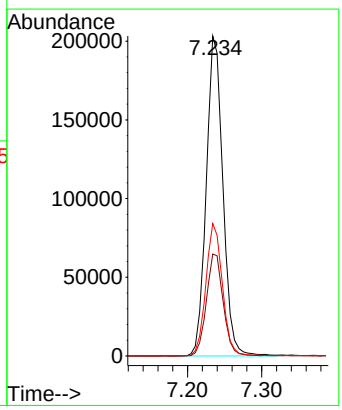


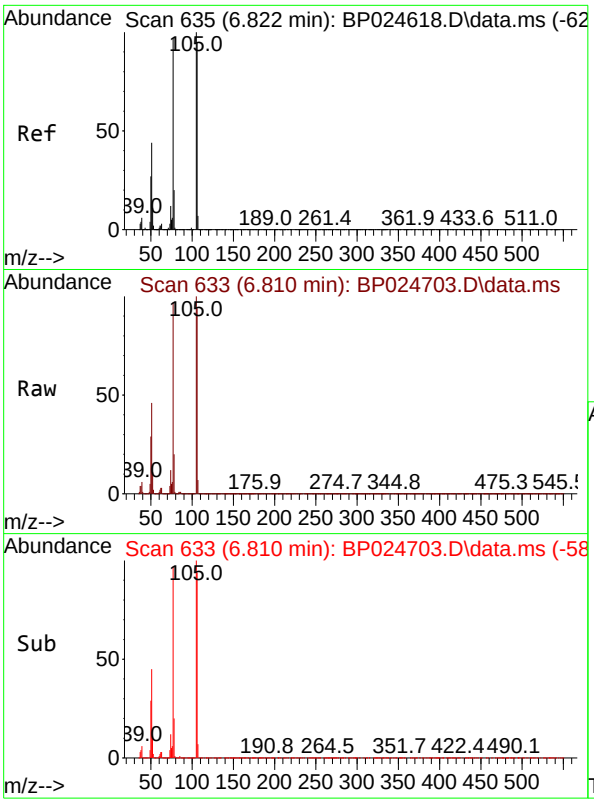


#8
2-Chlorophenol
Concen: 38.571 ng
RT: 7.234 min Scan# 705
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:128 Resp: 316592

Ion	Ratio	Lower	Upper
128	100		
130	31.8	13.0	53.0
64	41.4	22.3	62.3



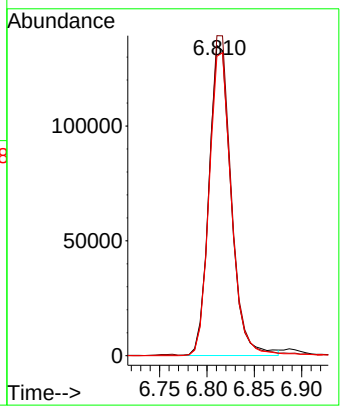


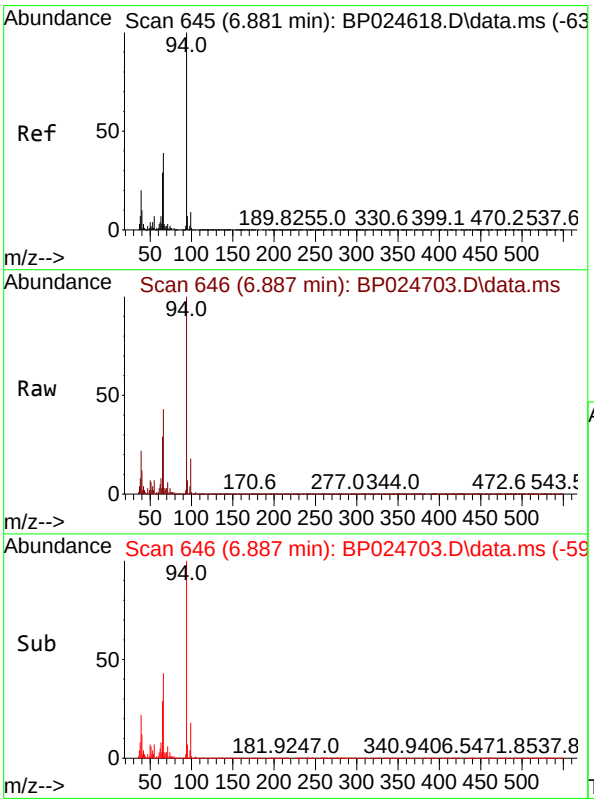
#9
Benzaldehyde
Concen: 36.642 ng
RT: 6.810 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 218883

Ion	Ratio	Lower	Upper
77	100		
105	103.2	83.3	123.3
106	96.5	78.0	118.0

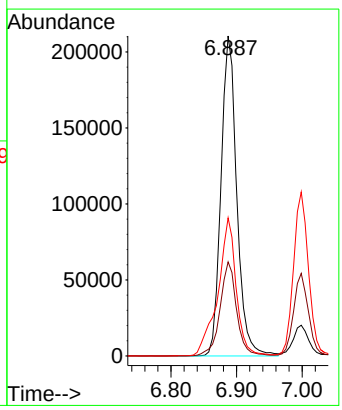


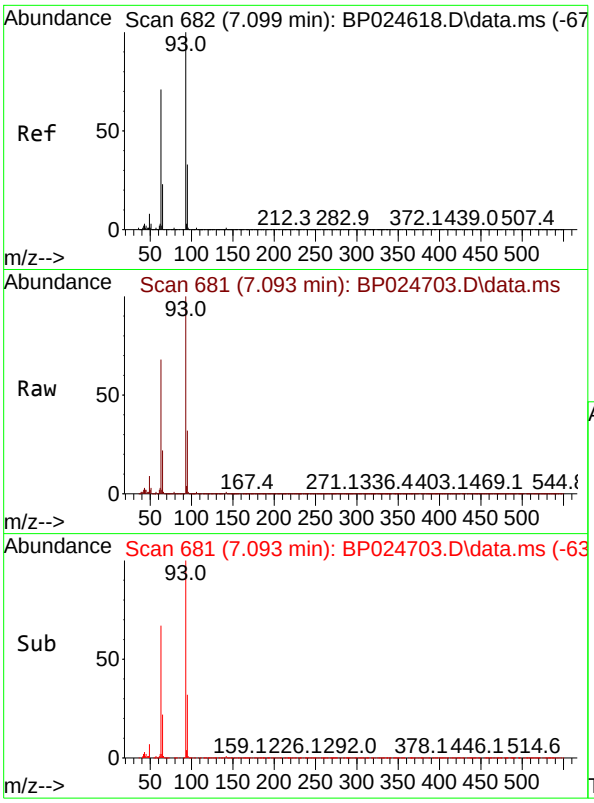


#10
Phenol
Concen: 36.834 ng
RT: 6.887 min Scan# 646
Delta R.T. 0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion: 94 Resp: 350820

Ion	Ratio	Lower	Upper
94	100		
65	29.4	8.7	48.7
66	43.1	19.4	59.4



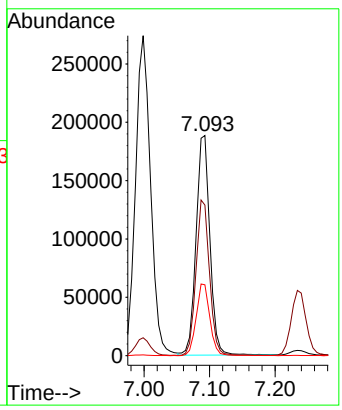


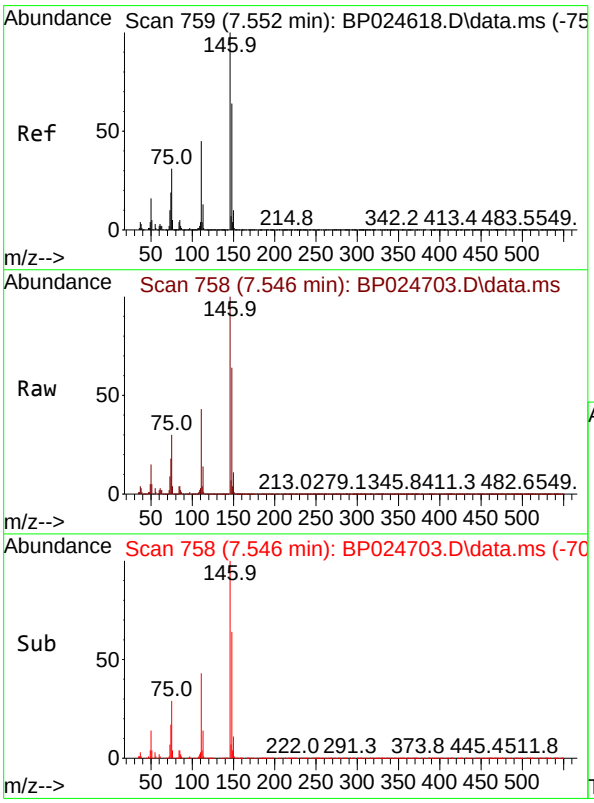
#11
bis(2-Chloroethyl)ether
Concen: 35.195 ng
RT: 7.093 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 275441

Ion	Ratio	Lower	Upper
93	100		
63	68.4	50.6	90.6
95	32.2	12.9	52.9

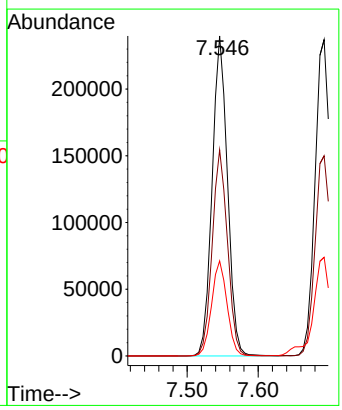


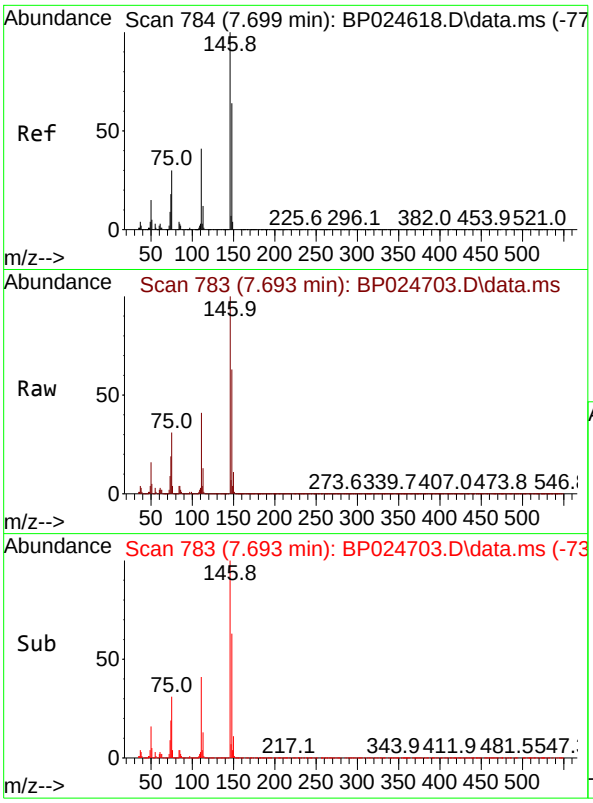


#12
1,3-Dichlorobenzene
Concen: 37.969 ng
RT: 7.546 min Scan# 758
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:146 Resp: 358557

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.4	77.2
75	29.7	25.2	37.8



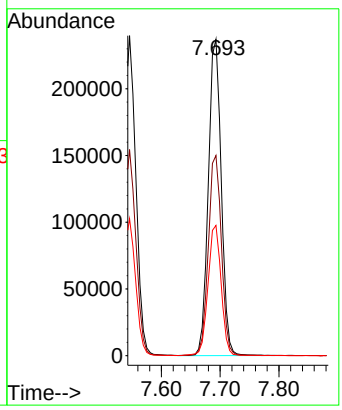


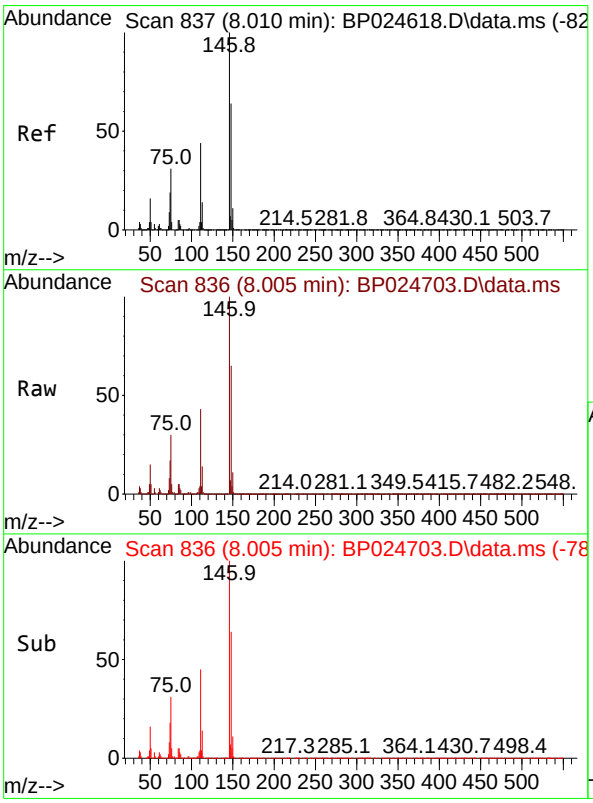
#13
1,4-Dichlorobenzene
Concen: 38.098 ng
RT: 7.693 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 361848

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.0	76.6
111	41.2	33.0	49.6

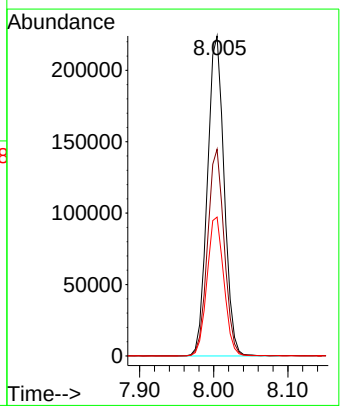


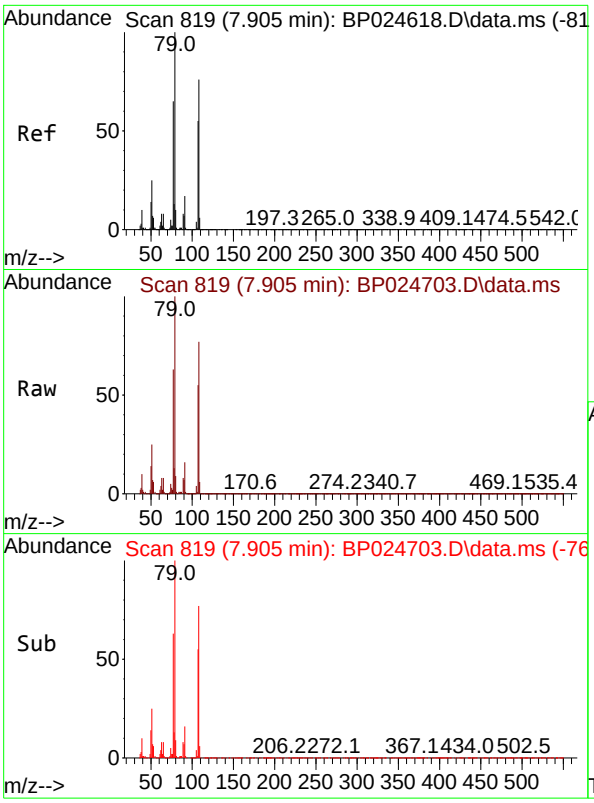


#14
1,2-Dichlorobenzene
Concen: 37.873 ng
RT: 8.005 min Scan# 836
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:146 Resp: 350515

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.0	76.4
111	43.4	35.2	52.8



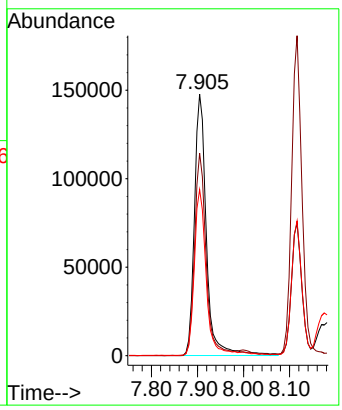


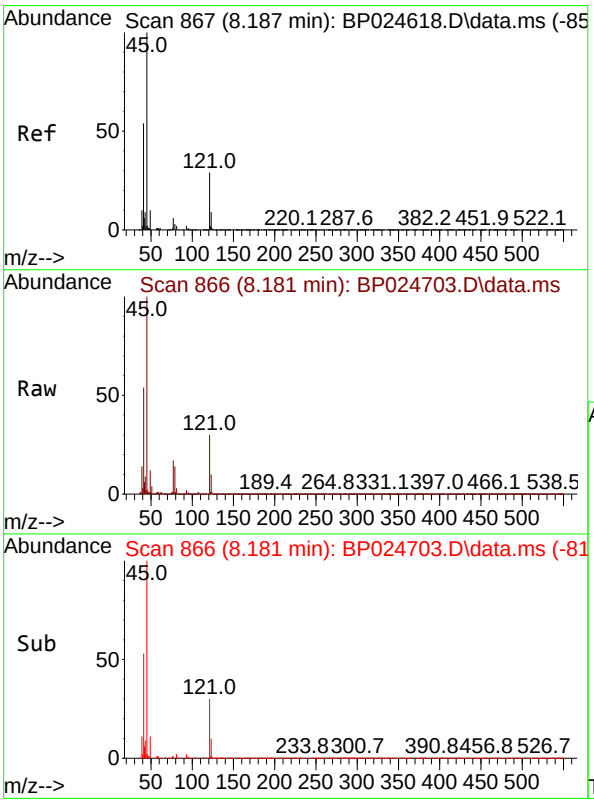
#15
Benzyl Alcohol
Concen: 38.049 ng
RT: 7.905 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 266818

Ion	Ratio	Lower	Upper
79	100		
108	77.4	60.8	91.2
77	63.4	51.9	77.9

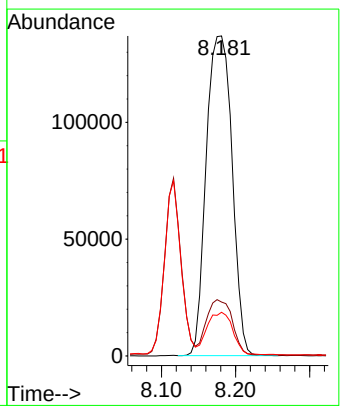


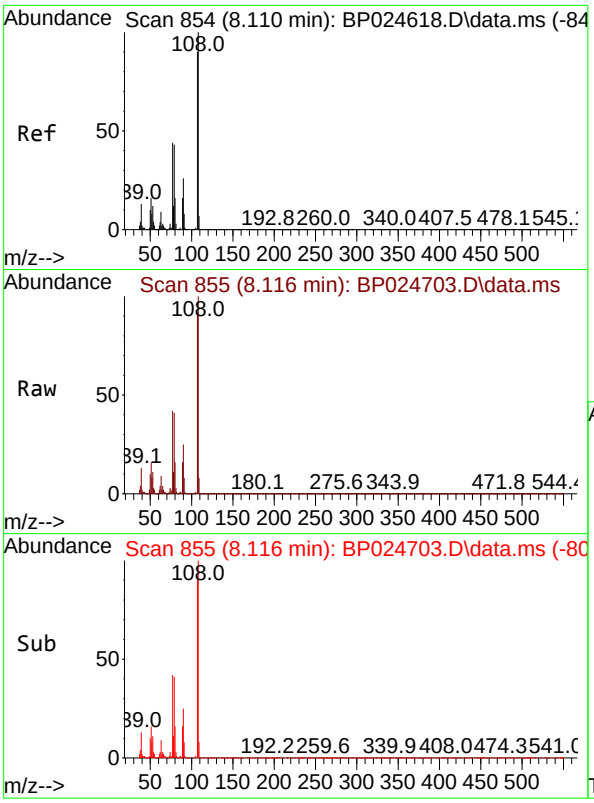


#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.362 ng
RT: 8.181 min Scan# 866
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion: 45 Resp: 331428

Ion	Ratio	Lower	Upper
45	100		
77	16.9	0.0	37.7
79	13.6	0.0	34.0



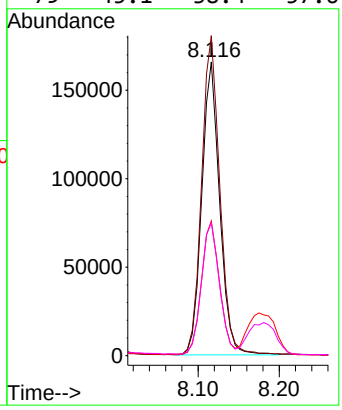


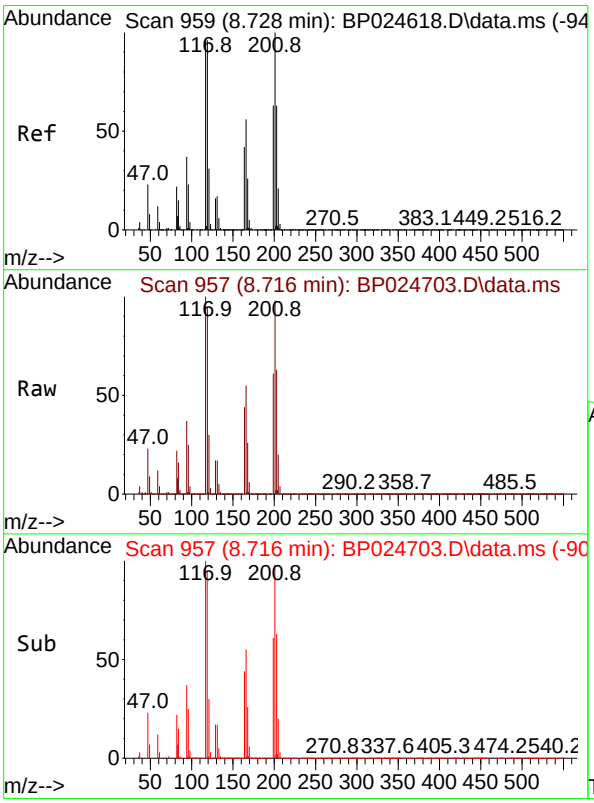
#17
2-Methylphenol
Concen: 37.017 ng
RT: 8.116 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 252873

Ion	Ratio	Lower	Upper
107	100		
108	108.9	88.9	133.3
77	45.8	39.0	58.6
79	45.1	38.4	57.6

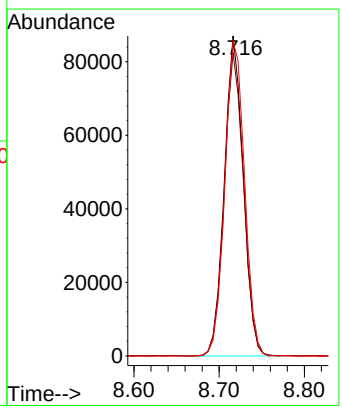


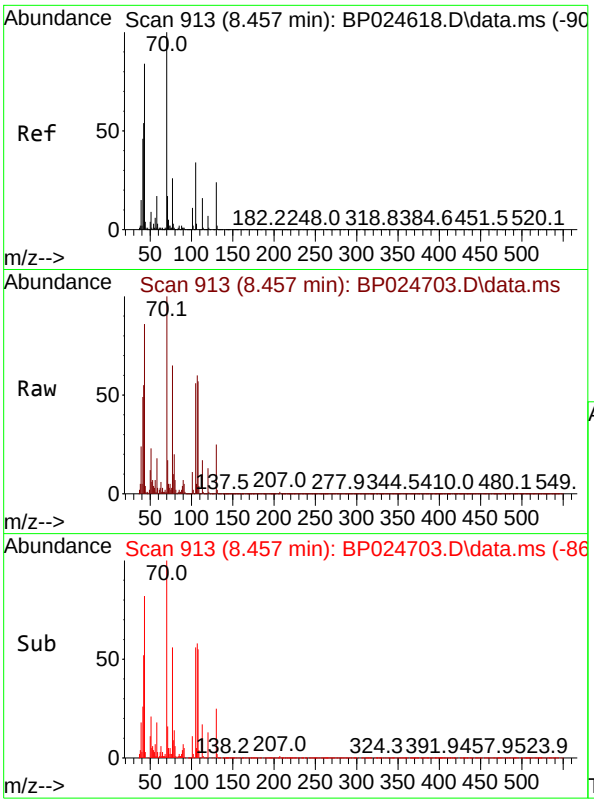


#18
Hexachloroethane
Concen: 37.007 ng
RT: 8.716 min Scan# 957
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:117 Resp: 134692

Ion	Ratio	Lower	Upper
117	100		
119	94.6	79.4	119.0
201	98.4	82.7	124.1



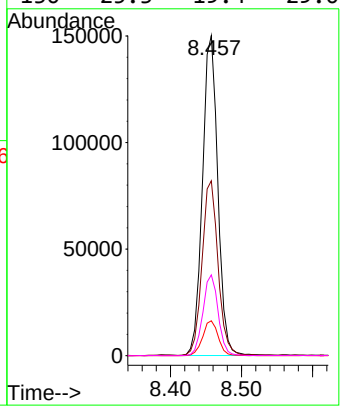


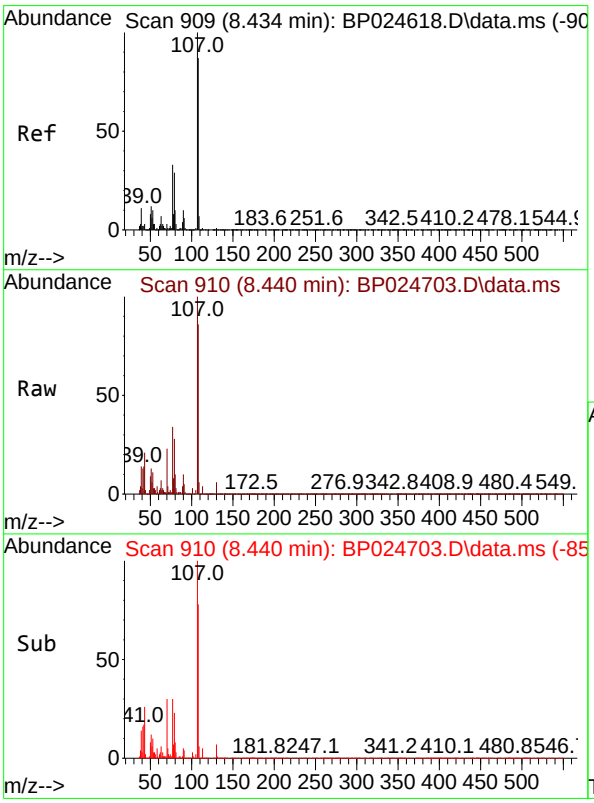
#19
n-Nitroso-di-n-propylamine
Concen: 35.440 ng
RT: 8.457 min Scan# 91
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 226226

Ion	Ratio	Lower	Upper
70	100		
42	54.7	43.0	64.6
101	10.9	8.7	13.1
130	25.3	19.4	29.0

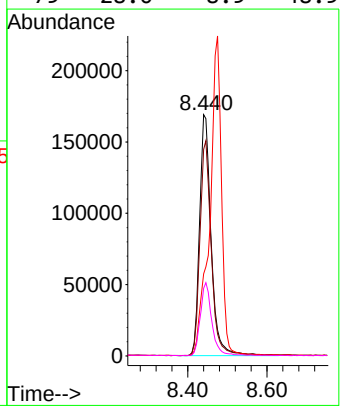


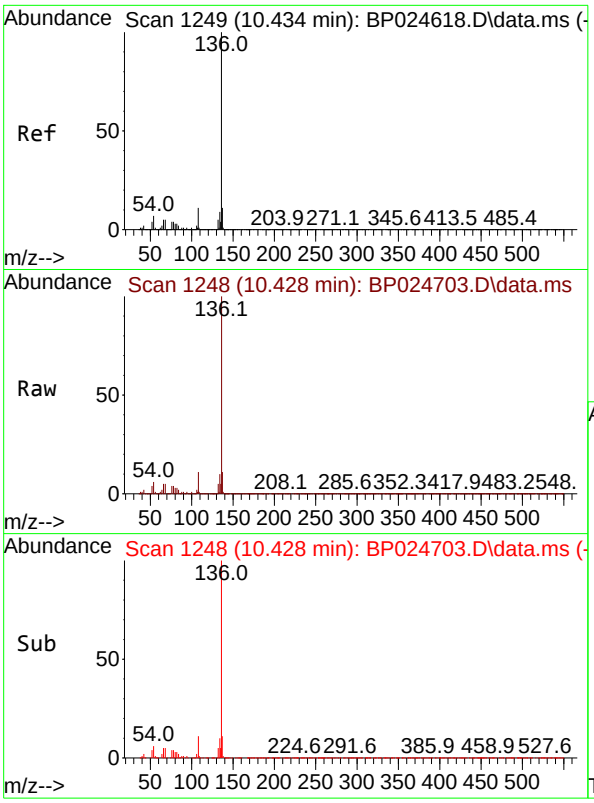


#20
3+4-Methylphenols
Concen: 36.755 ng
RT: 8.440 min Scan# 910
Delta R.T. 0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:107 Resp: 341536

Ion	Ratio	Lower	Upper
107	100		
108	85.6	66.7	106.7
77	34.0	13.1	53.1
79	28.0	8.9	48.9



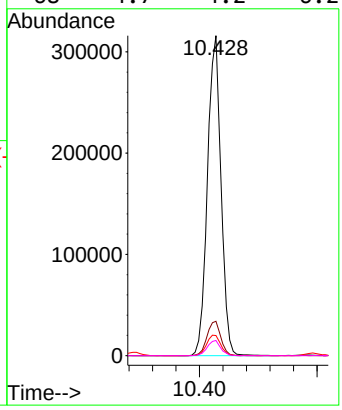


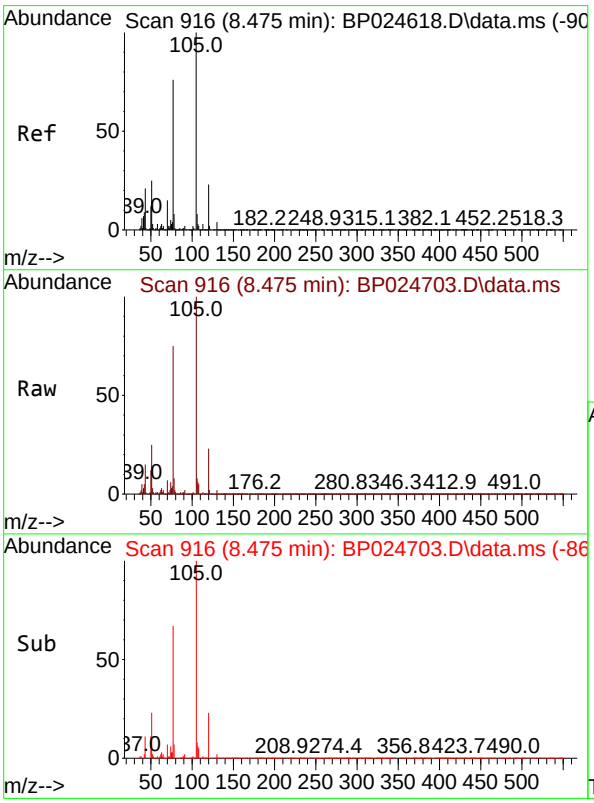
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 504753

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	6.3	5.5	8.3
68	4.7	4.2	6.2

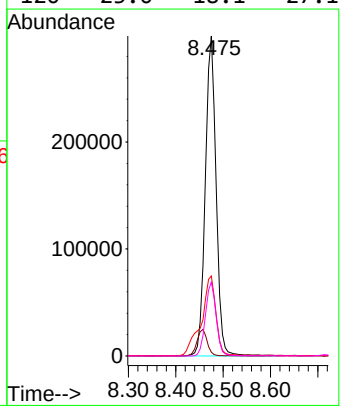


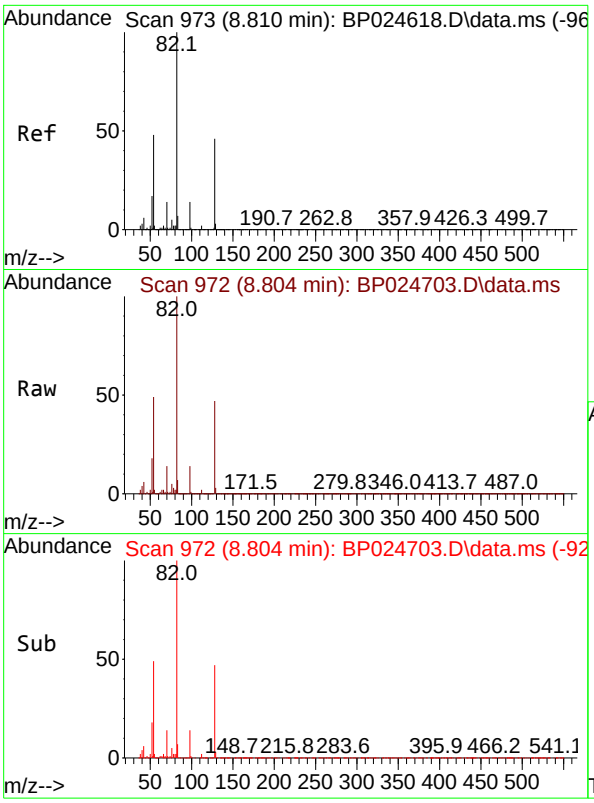


#22
Acetophenone
Concen: 37.752 ng
RT: 8.475 min Scan# 916
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:105 Resp: 475992

Ion	Ratio	Lower	Upper
105	100		
71	1.2	2.0	3.0#
51	25.0	20.4	30.6
120	23.0	18.1	27.1



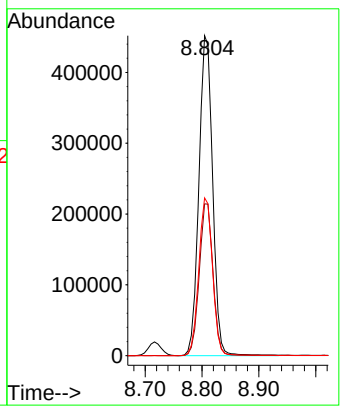


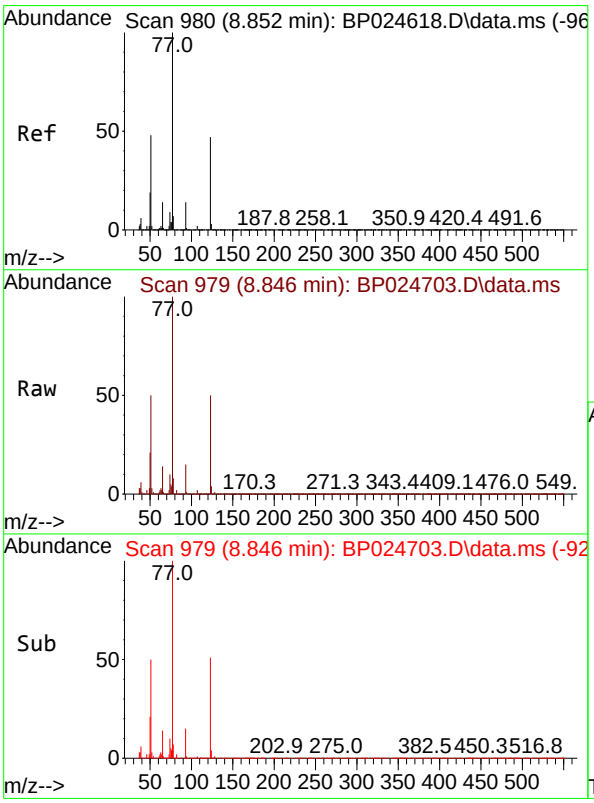
#23
Nitrobenzene-d5
Concen: 75.884 ng
RT: 8.804 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 758074

Ion	Ratio	Lower	Upper
82	100		
128	47.4	37.0	55.4
54	49.3	38.7	58.1

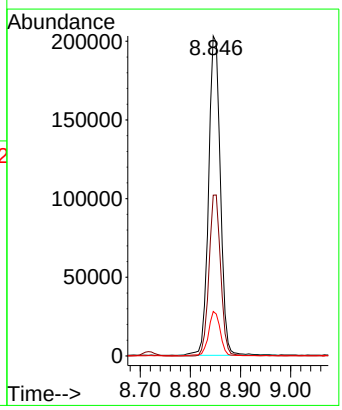


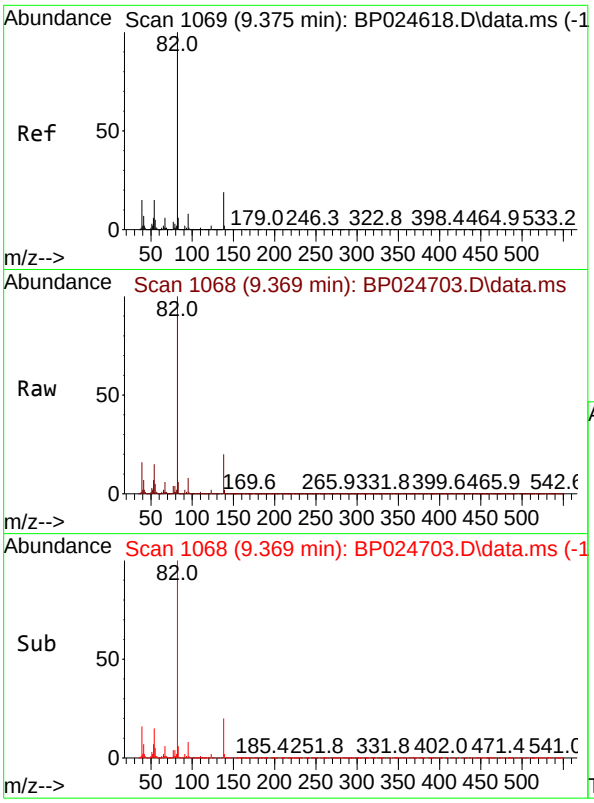


#24
Nitrobenzene
Concen: 37.838 ng
RT: 8.846 min Scan# 979
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion: 77 Resp: 332647

Ion	Ratio	Lower	Upper
77	100		
123	50.2	37.4	56.0
65	13.9	11.3	16.9



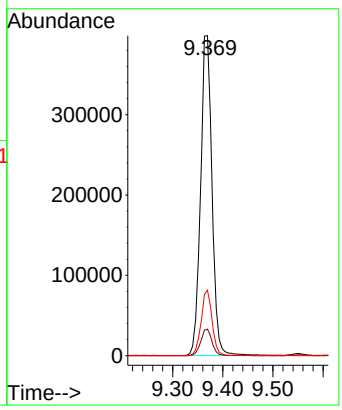


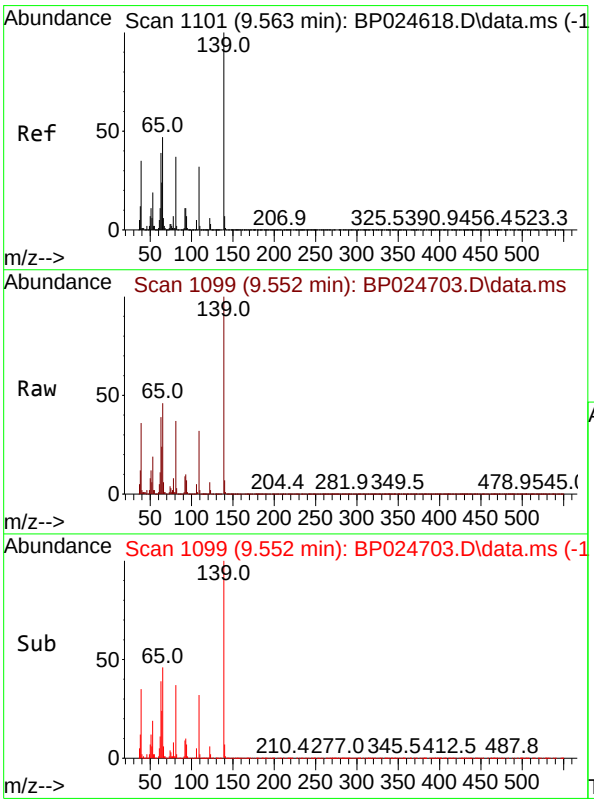
#25
Isophorone
Concen: 36.360 ng
RT: 9.369 min Scan# 1(
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 630069

Ion	Ratio	Lower	Upper
82	100		
95	8.3	6.3	9.5
138	20.5	15.3	22.9

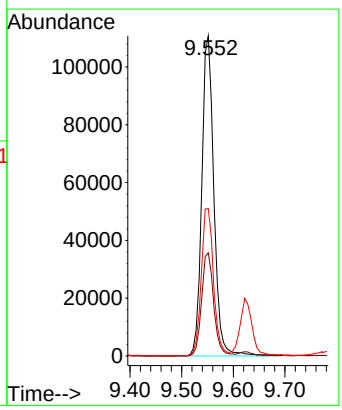


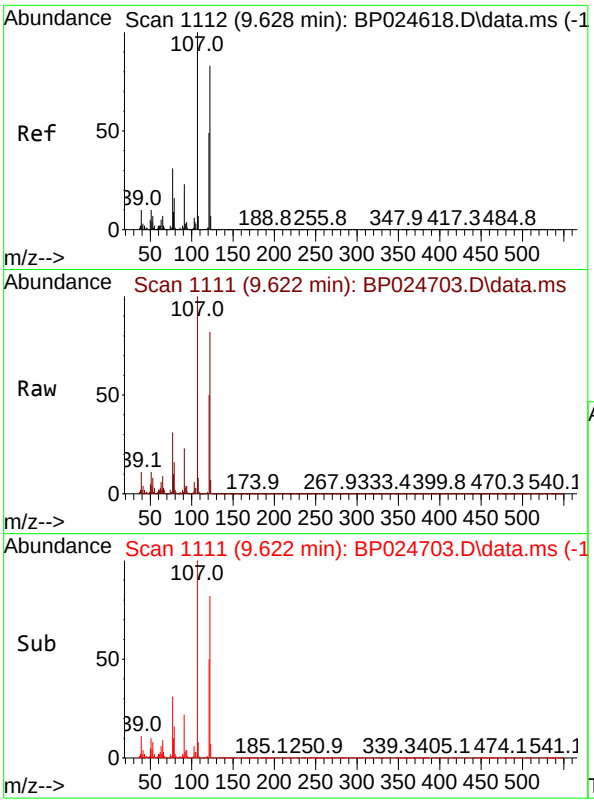


#26
2-Nitrophenol
Concen: 41.786 ng
RT: 9.552 min Scan# 1099
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:139 Resp: 180007

Ion	Ratio	Lower	Upper
139	100		
109	32.2	25.9	38.9
65	46.0	37.9	56.9



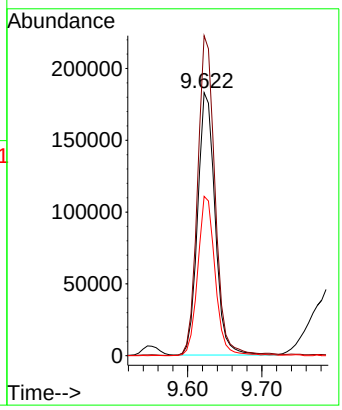


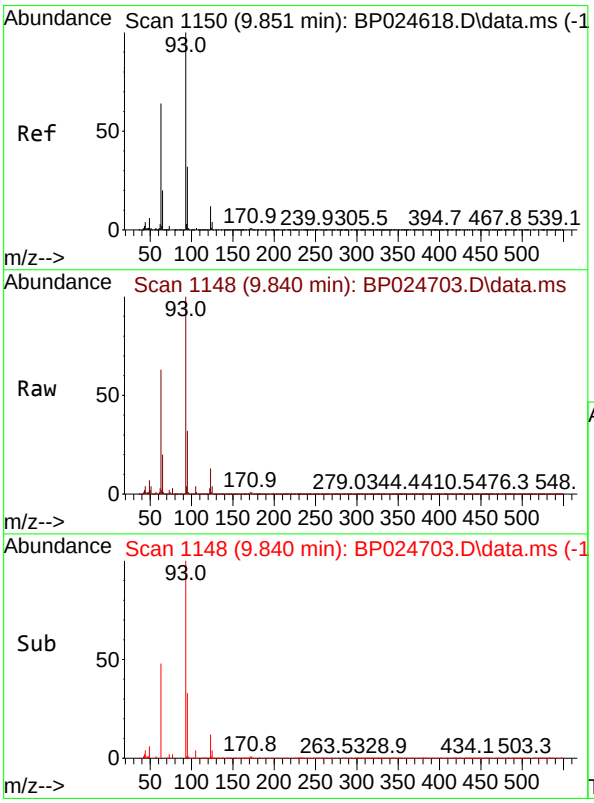
#27
2,4-Dimethylphenol
Concen: 39.314 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 298599

Ion	Ratio	Lower	Upper
122	100		
107	121.6	96.2	144.2
121	60.6	47.6	71.4

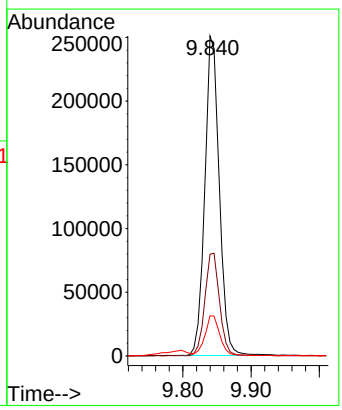


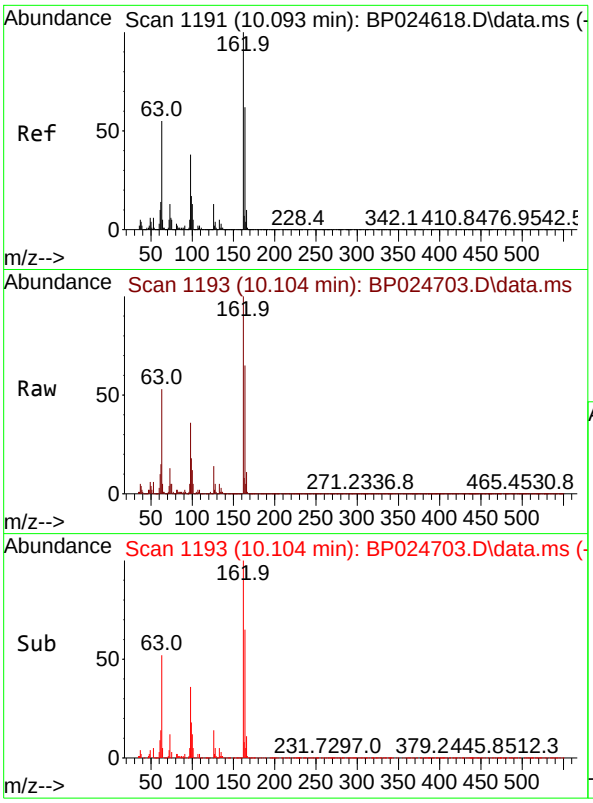


#28
bis(2-Chloroethoxy)methane
Concen: 35.782 ng
RT: 9.840 min Scan# 1148
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion: 93 Resp: 370445

Ion	Ratio	Lower	Upper
93	100		
95	31.8	25.5	38.3
123	12.6	9.7	14.5



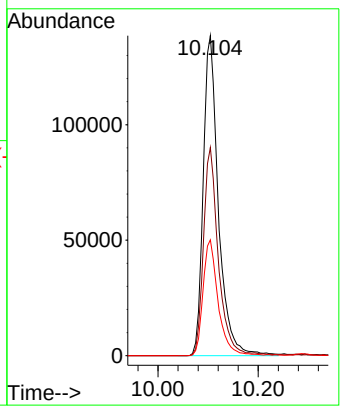


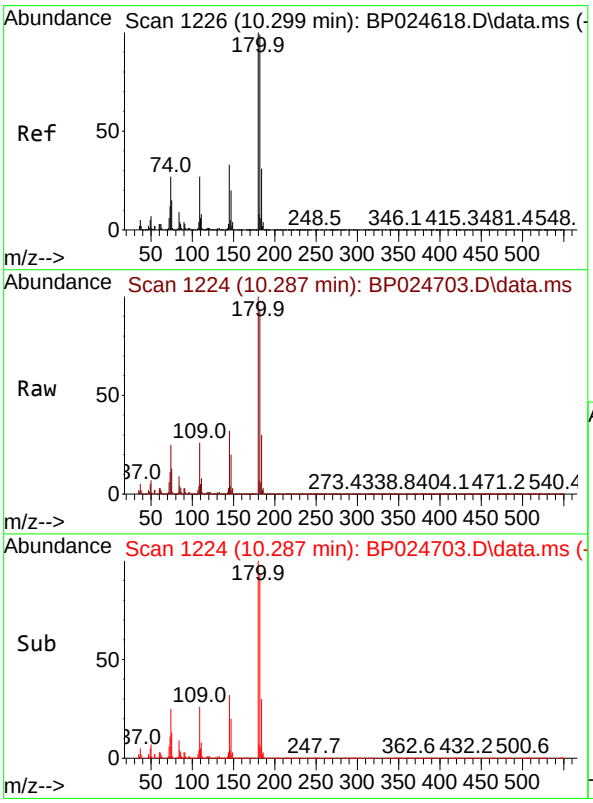
#29
2,4-Dichlorophenol
Concen: 39.583 ng
RT: 10.104 min Scan# 11
Delta R.T. 0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 291338

Ion	Ratio	Lower	Upper
162	100		
164	65.1	42.3	82.3
98	36.2	18.4	58.4

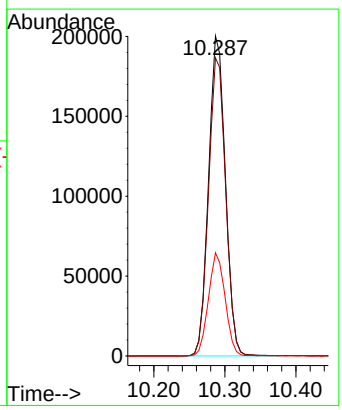


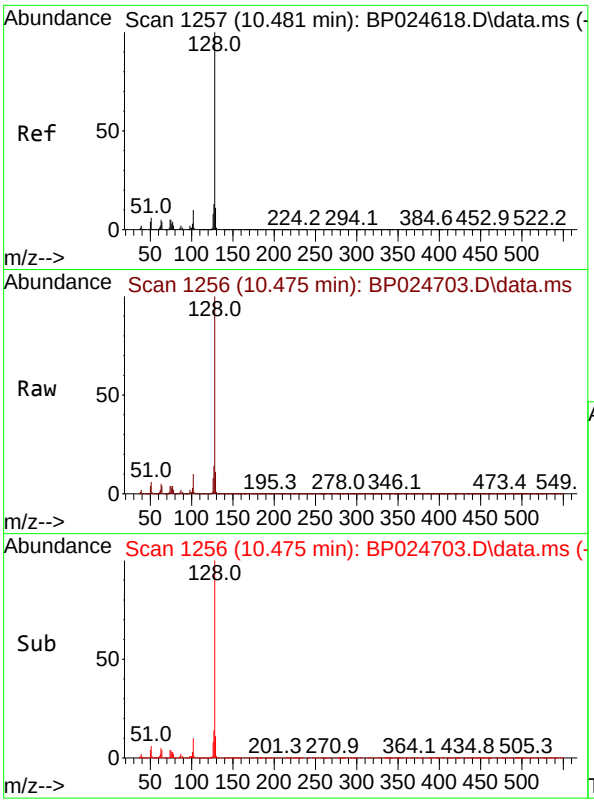


#30
1,2,4-Trichlorobenzene
Concen: 39.761 ng
RT: 10.287 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:180 Resp: 329782

Ion	Ratio	Lower	Upper
180	100		
182	93.1	79.0	118.4
145	32.3	26.6	39.8



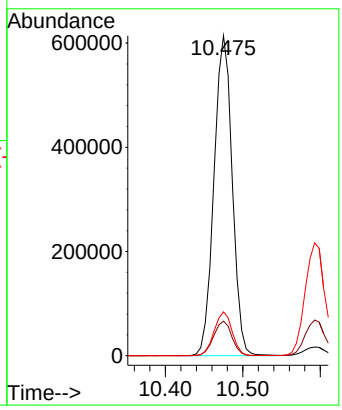


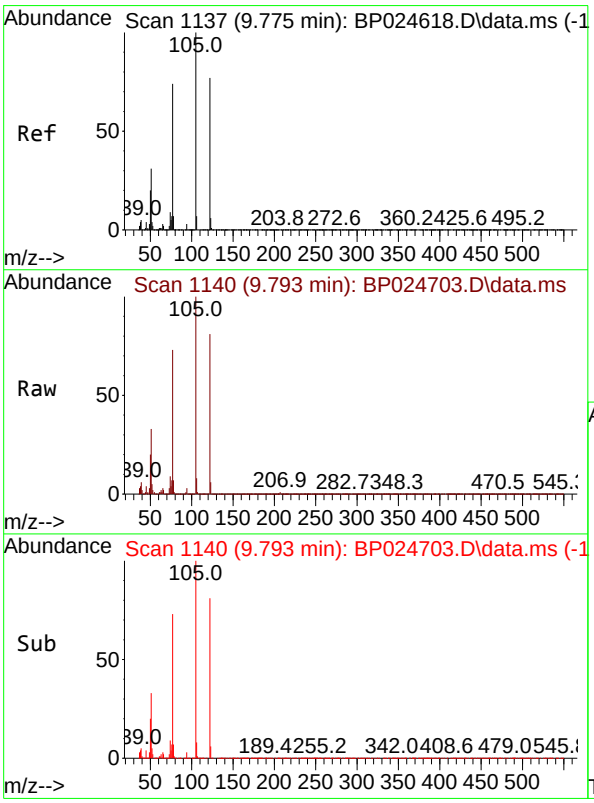
#31
Naphthalene
Concen: 38.402 ng
RT: 10.475 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 1004479

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	13.7	10.7	16.1

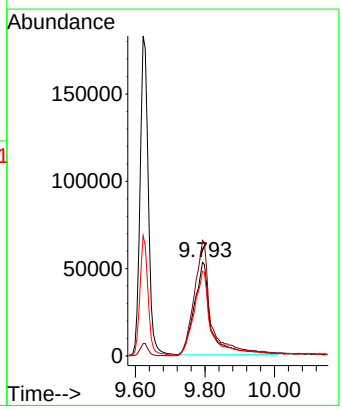


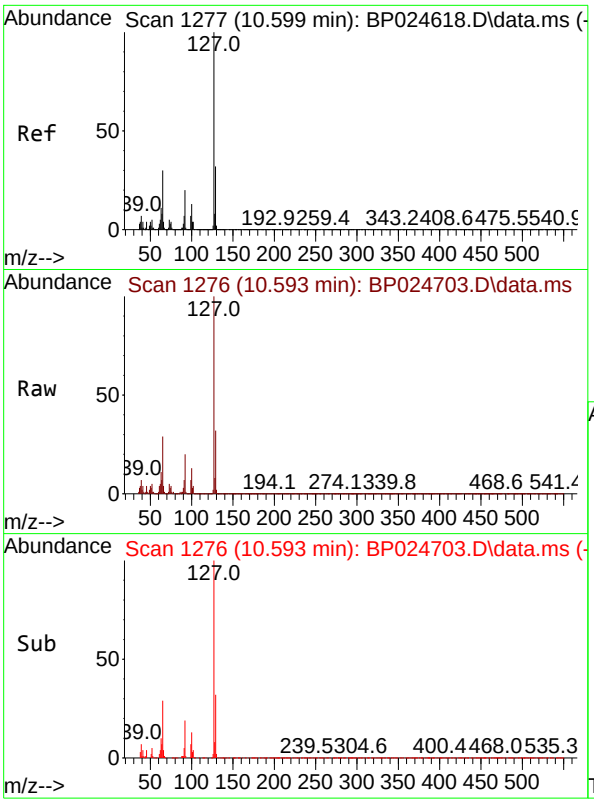


#32
Benzoic acid
Concen: 35.775 ng
RT: 9.793 min Scan# 1140
Delta R.T. 0.018 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:122 Resp: 177252

Ion	Ratio	Lower	Upper
122	100		
105	123.6	106.9	146.9
77	90.4	75.1	115.1



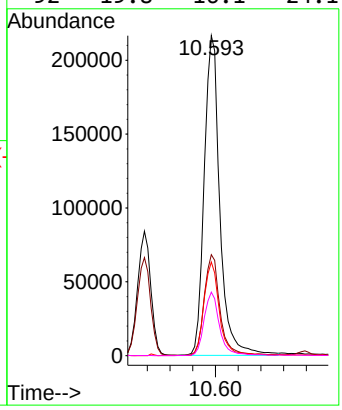


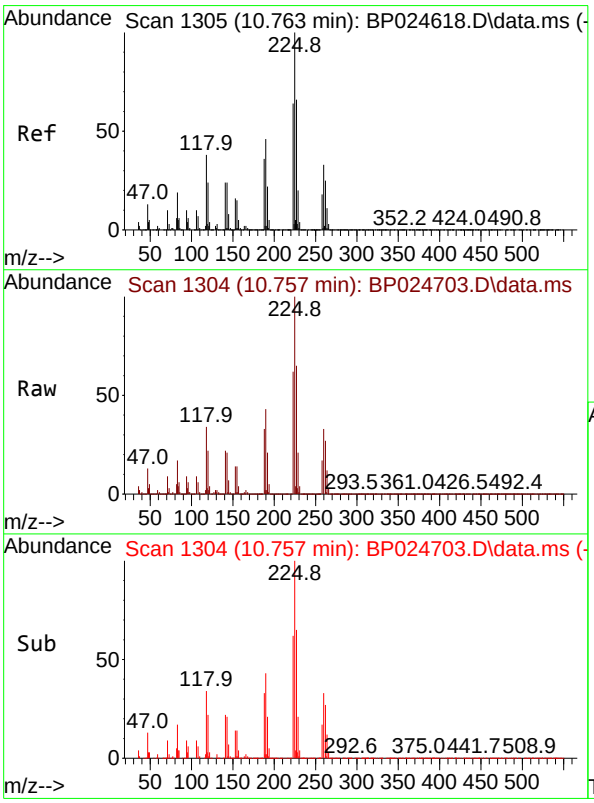
#33
4-Chloroaniline
Concen: 39.100 ng
RT: 10.593 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 412703

Ion	Ratio	Lower	Upper
127	100		
129	31.6	25.8	38.6
65	29.3	23.9	35.9
92	19.8	16.1	24.1

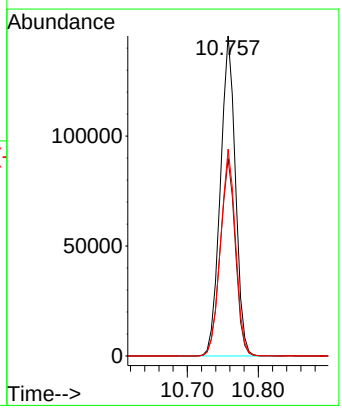


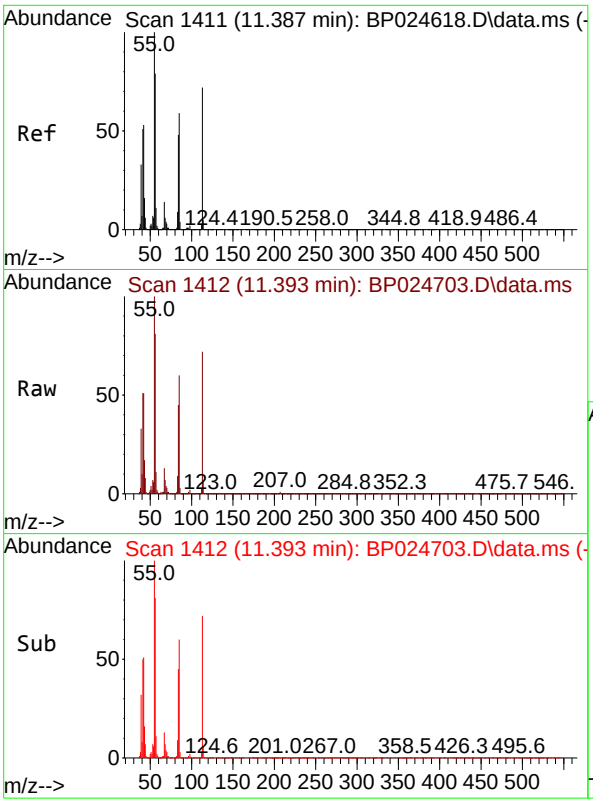


#34
Hexachlorobutadiene
Concen: 39.725 ng
RT: 10.757 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:225 Resp: 213441

Ion	Ratio	Lower	Upper
225	100		
223	61.6	51.0	76.6
227	64.6	53.1	79.7



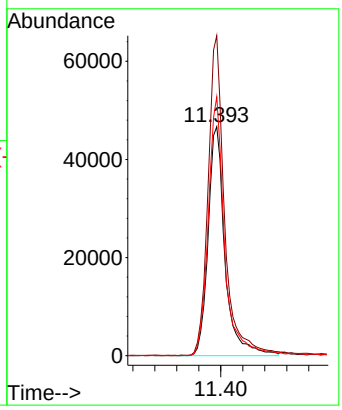


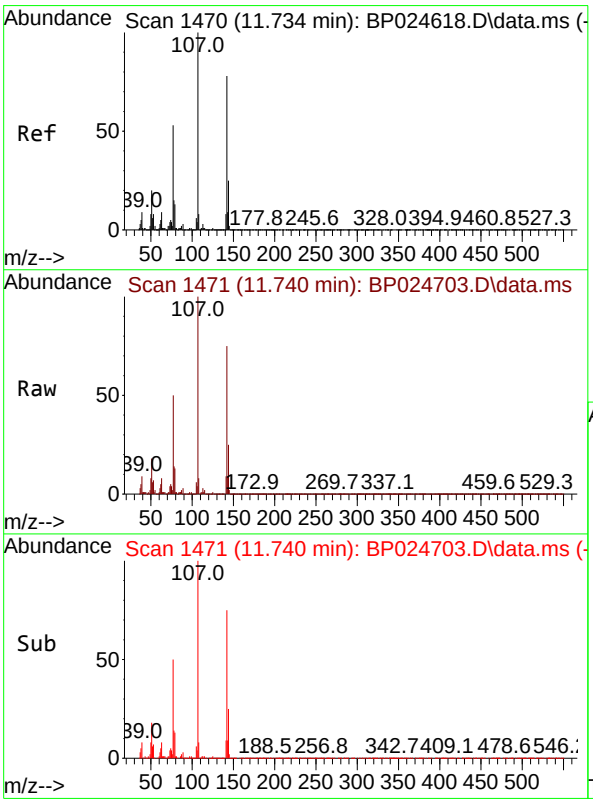
#35
Caprolactam
Concen: 37.303 ng
RT: 11.393 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 99335

Ion	Ratio	Lower	Upper
113	100		
55	139.7	119.0	159.0
56	113.1	90.3	130.3

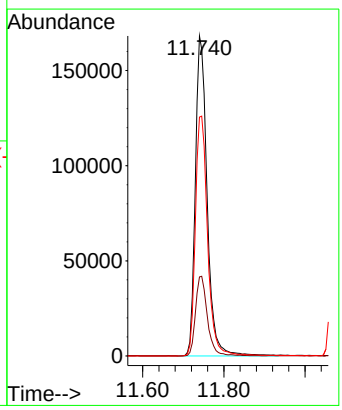


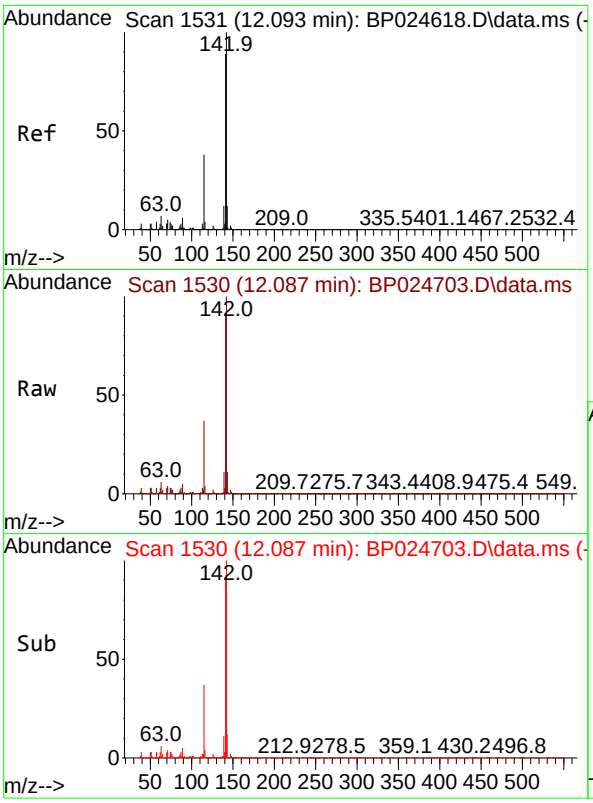


#36
4-Chloro-3-methylphenol
Concen: 37.939 ng
RT: 11.740 min Scan# 1471
Delta R.T. 0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:107 Resp: 340527

Ion	Ratio	Lower	Upper
107	100		
144	24.7	20.1	30.1
142	74.7	62.1	93.1



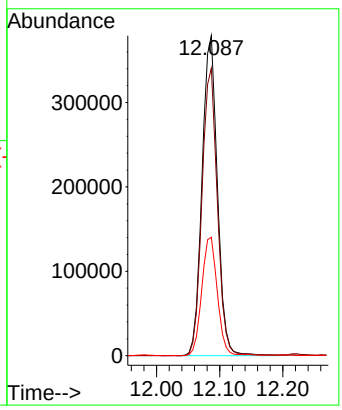


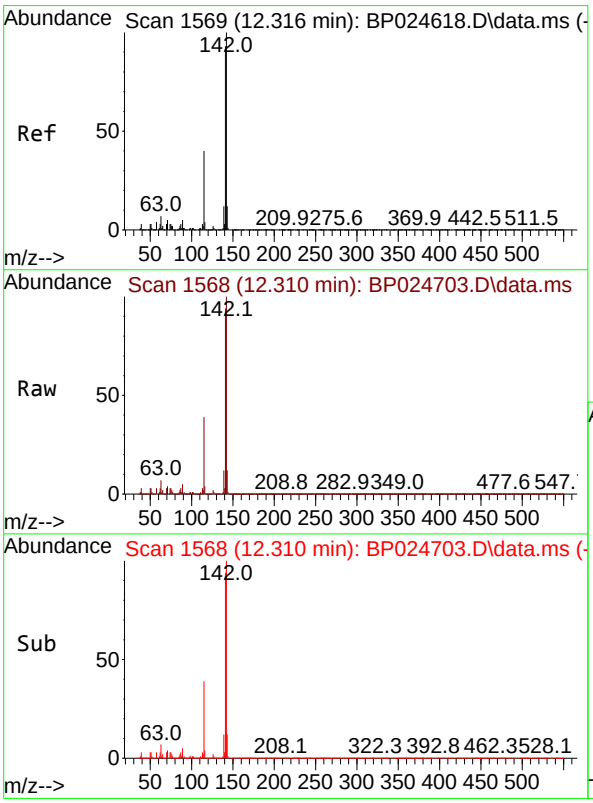
#37
2-Methylnaphthalene
Concen: 37.810 ng
RT: 12.087 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 640384

Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.2	106.8
115	37.0	30.6	46.0

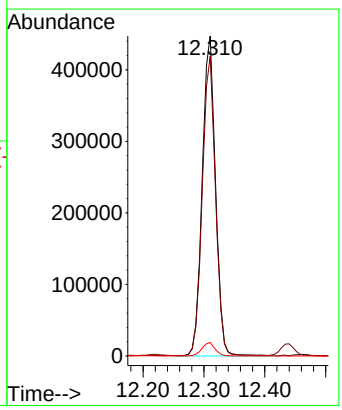


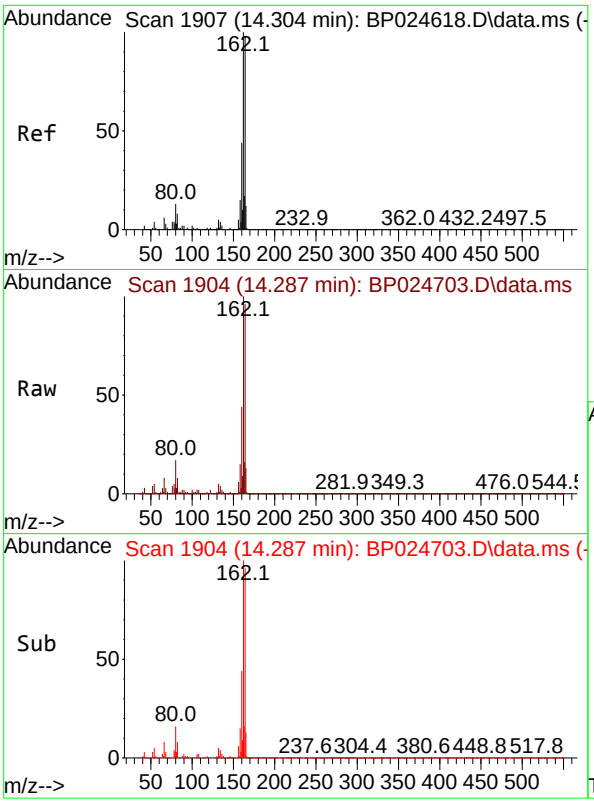


#38
1-Methylnaphthalene
Concen: 37.519 ng
RT: 12.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:142 Resp: 679915

Ion	Ratio	Lower	Upper
142	100		
141	93.7	74.7	112.1
116	4.2	3.4	5.2



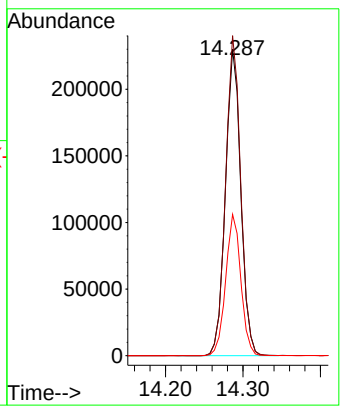


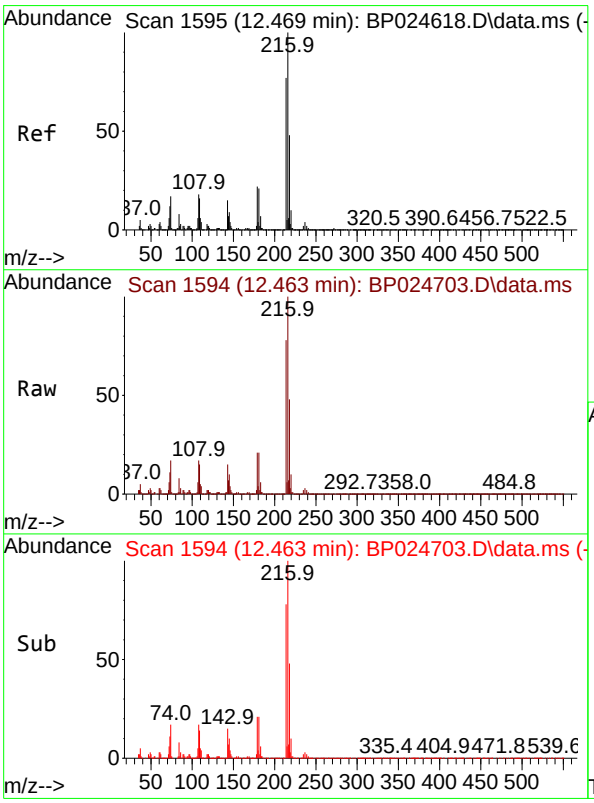
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.287 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 316846

Ion	Ratio	Lower	Upper
164	100		
162	104.4	81.8	122.6
160	46.1	36.3	54.5

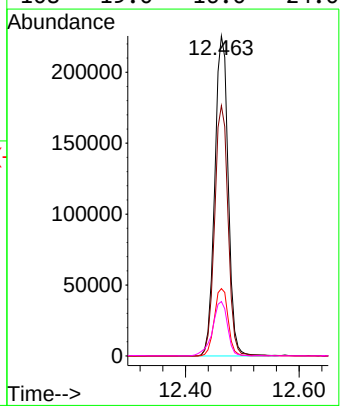


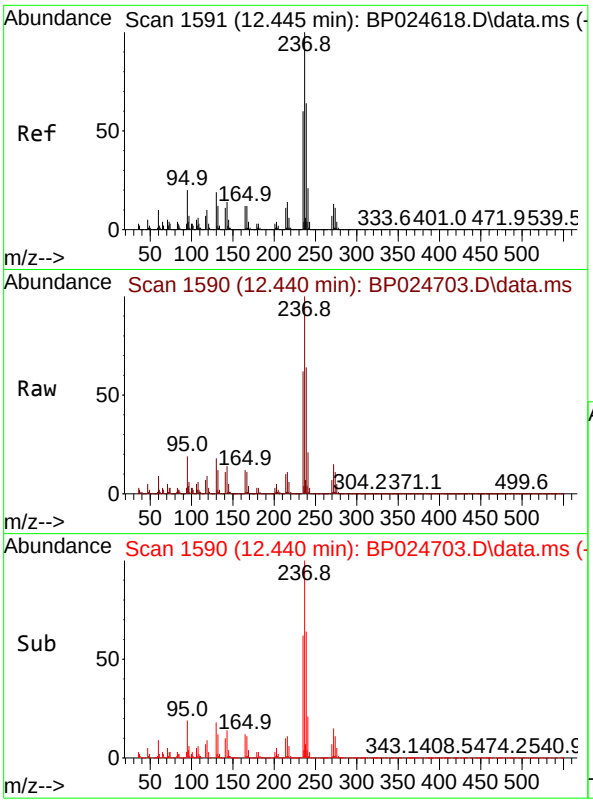


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.169 ng
RT: 12.463 min Scan# 1594
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:216 Resp: 369584

Ion	Ratio	Lower	Upper
216	100		
214	78.4	62.3	93.5
179	21.7	17.7	26.5
108	19.0	16.0	24.0



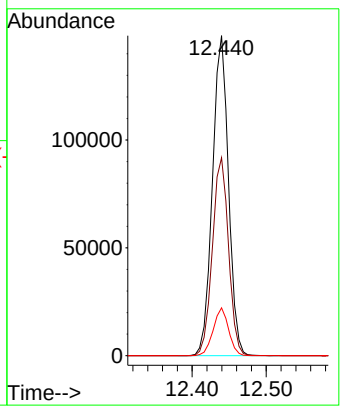


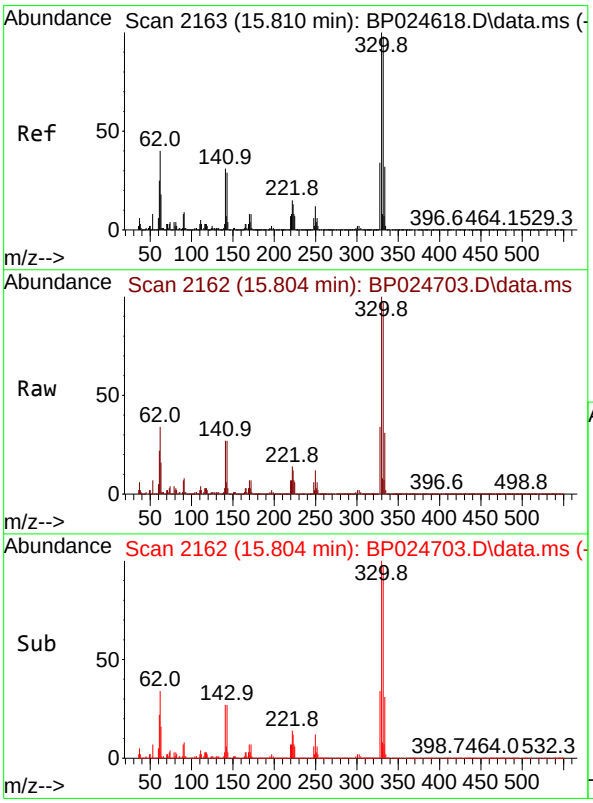
#41
Hexachlorocyclopentadiene
Concen: 39.860 ng
RT: 12.440 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 222383

Ion	Ratio	Lower	Upper
237	100		
235	61.8	39.9	79.9
272	14.9	0.0	33.2

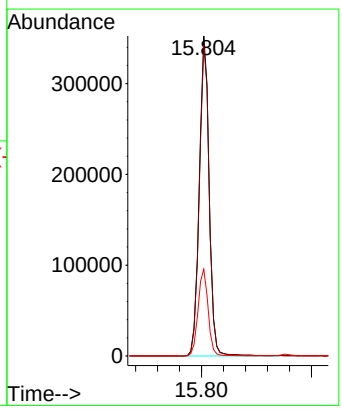


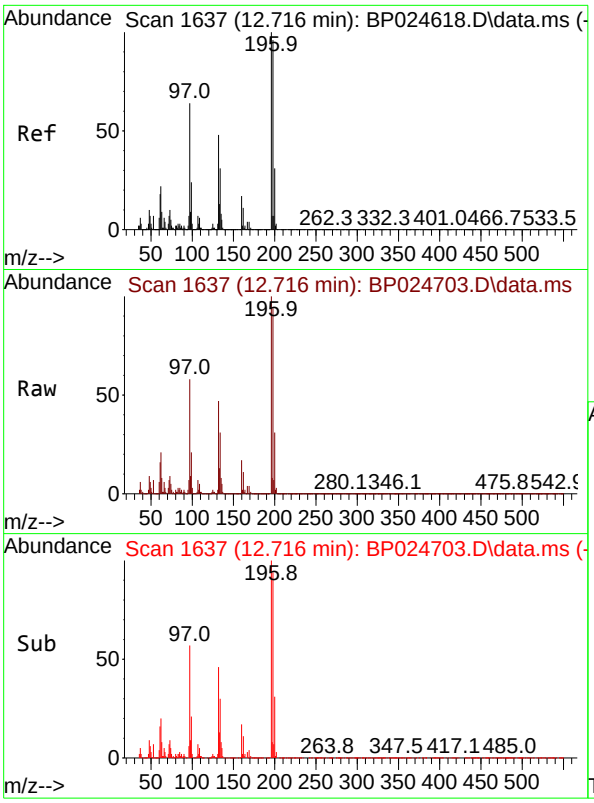


#42
2,4,6-Tribromophenol
Concen: 82.116 ng
RT: 15.804 min Scan# 2162
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:330 Resp: 441081

Ion	Ratio	Lower	Upper
330	100		
332	97.6	78.2	117.4
141	27.6	24.3	36.5



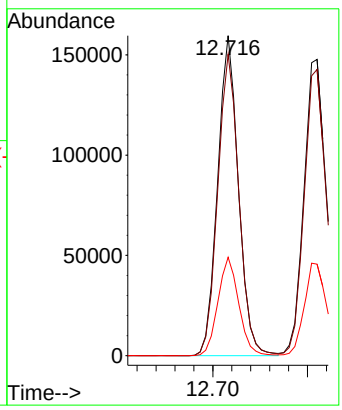


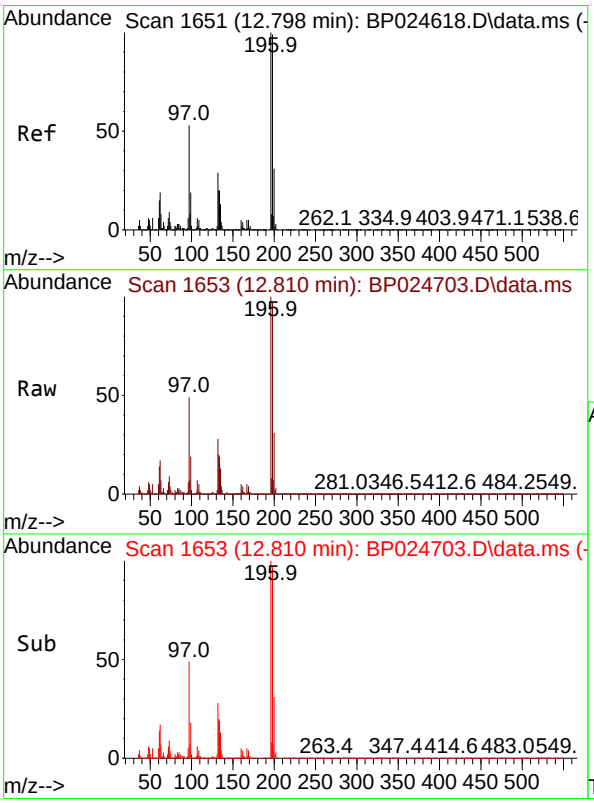
#43
2,4,6-Trichlorophenol
Concen: 40.826 ng
RT: 12.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 243302

Ion	Ratio	Lower	Upper
196	100		
198	94.2	76.9	115.3
200	30.8	25.2	37.8

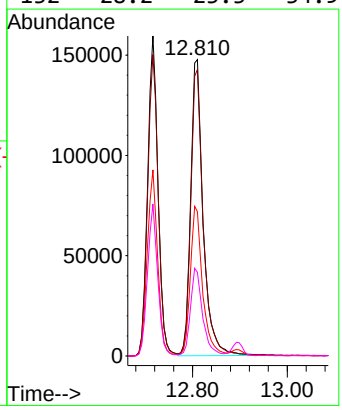


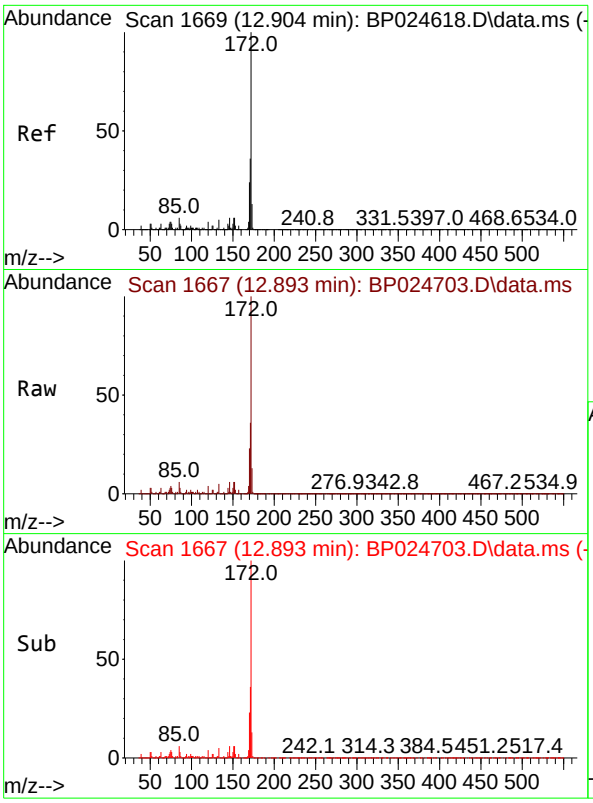


#44
2,4,5-Trichlorophenol
Concen: 40.832 ng
RT: 12.810 min Scan# 1653
Delta R.T. 0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:196 Resp: 270865

Ion	Ratio	Lower	Upper
196	100		
198	96.6	79.2	118.8
97	48.7	42.3	63.5
132	28.2	23.3	34.9



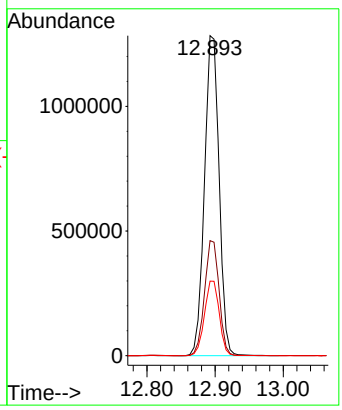


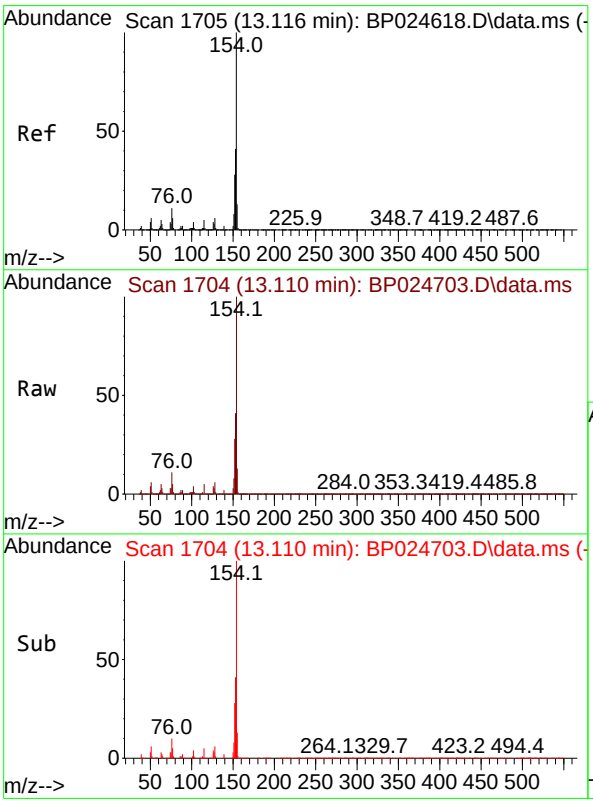
#45
2-Fluorobiphenyl
Concen: 79.243 ng
RT: 12.893 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 1916443

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.3	18.8	28.2

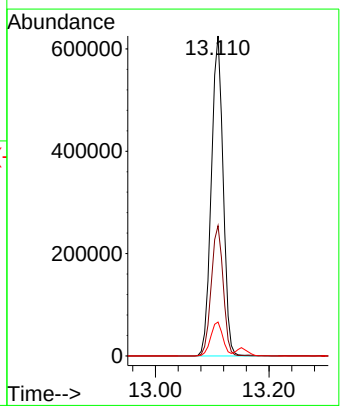


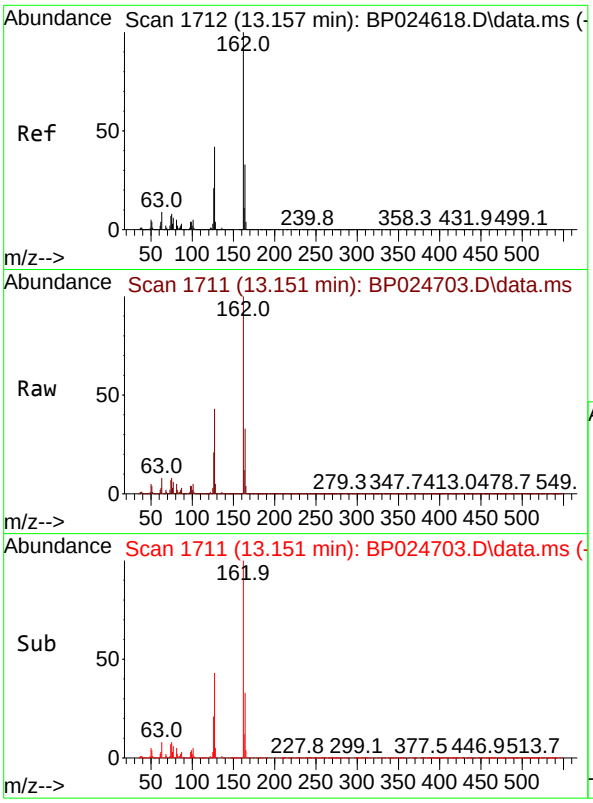


#46
1,1'-Biphenyl
Concen: 38.417 ng
RT: 13.110 min Scan# 1704
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:154 Resp: 899673

Ion	Ratio	Lower	Upper
154	100		
153	40.7	21.0	61.0
76	10.6	0.0	31.5



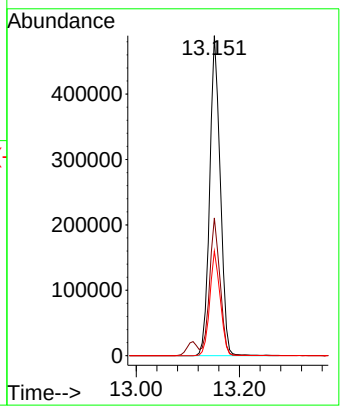


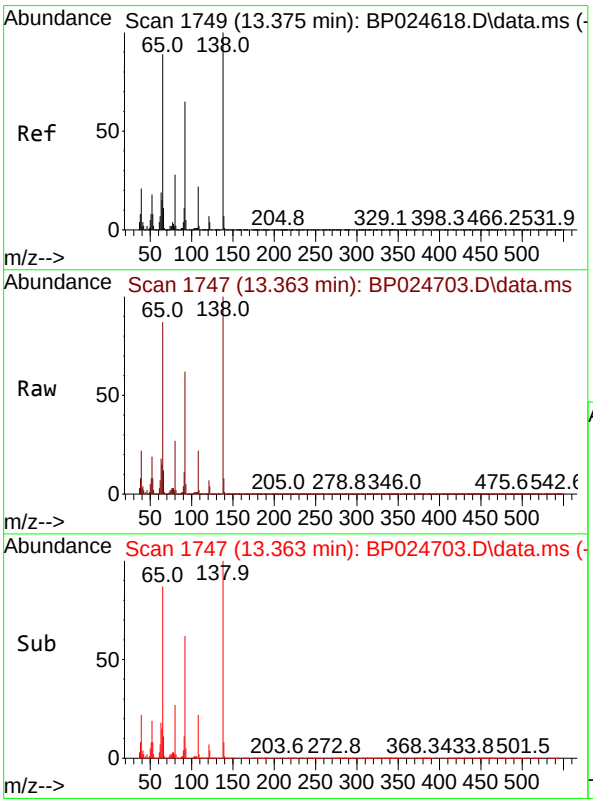
#47
2-Chloronaphthalene
Concen: 38.930 ng
RT: 13.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 695128

Ion	Ratio	Lower	Upper
162	100		
127	43.0	33.8	50.6
164	32.7	26.0	39.0

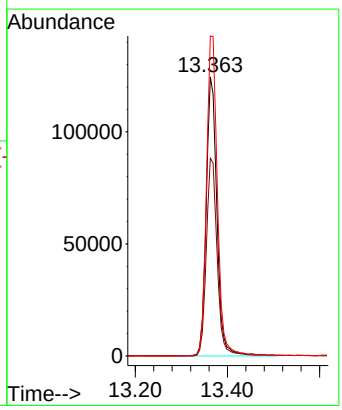


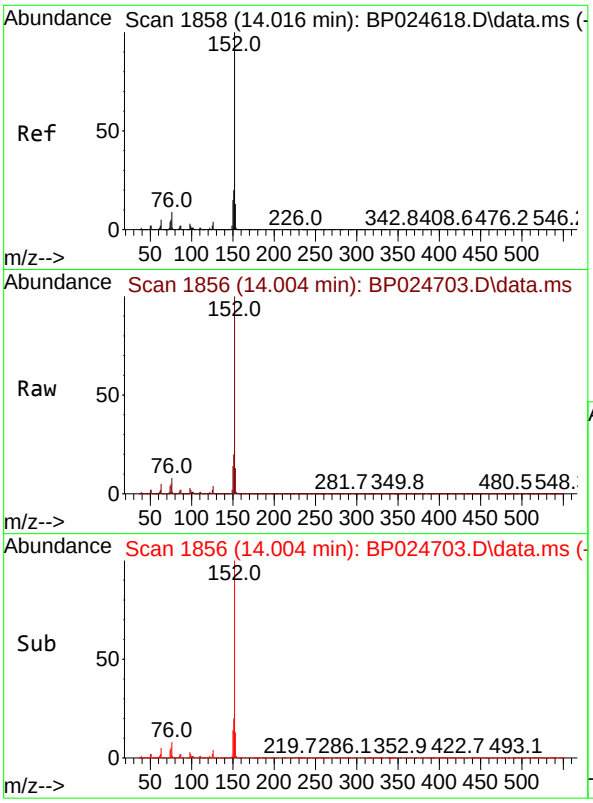


#48
2-Nitroaniline
Concen: 38.400 ng
RT: 13.363 min Scan# 1747
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion: 65 Resp: 203001

Ion	Ratio	Lower	Upper
65	100		
92	70.9	58.7	88.1
138	114.6	90.2	135.2



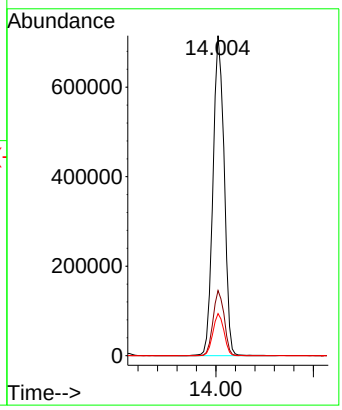


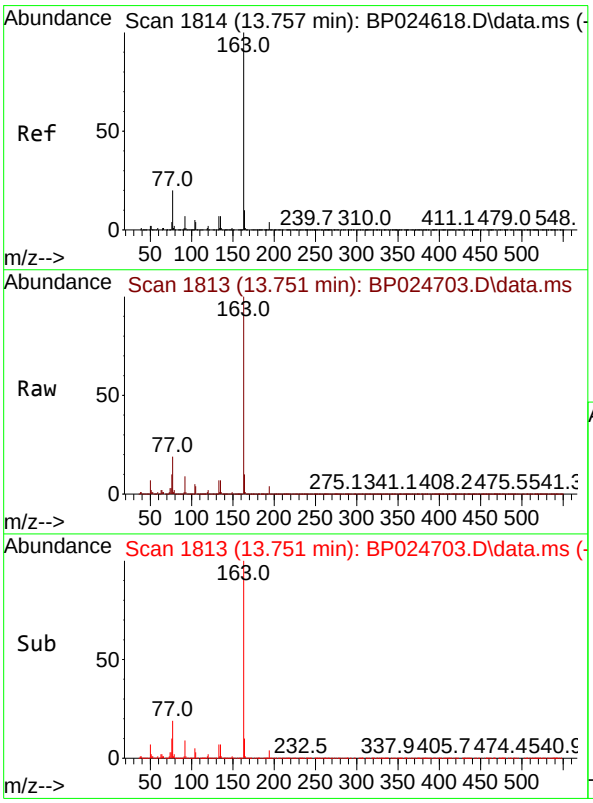
#49
Acenaphthylene
Concen: 38.009 ng
RT: 14.004 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 1135762

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.4
153	13.1	10.2	15.4

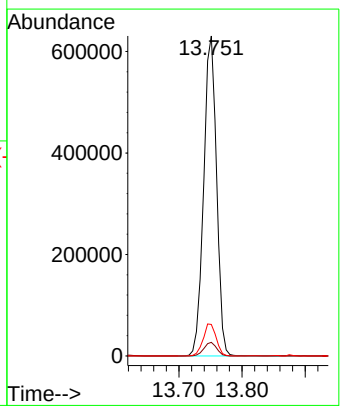


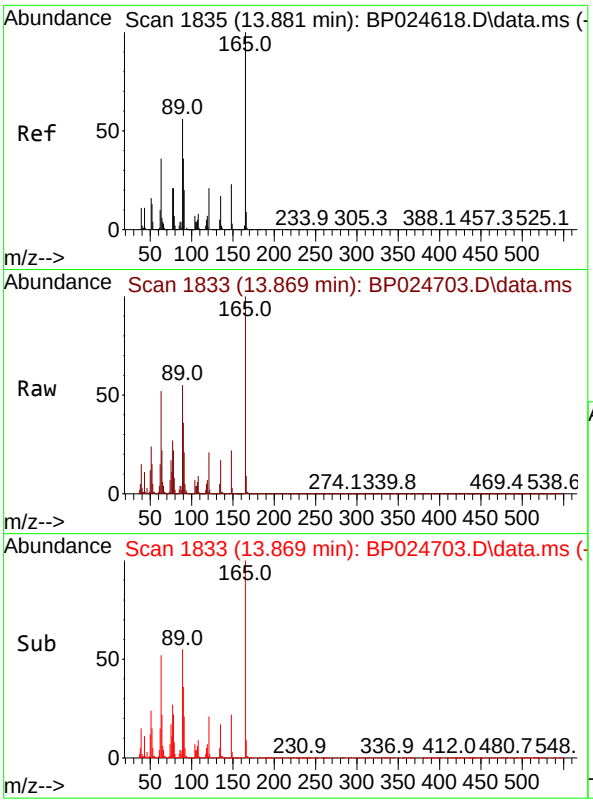


#50
Dimethylphthalate
Concen: 37.061 ng
RT: 13.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:163 Resp: 895032

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	9.9	8.1	12.1



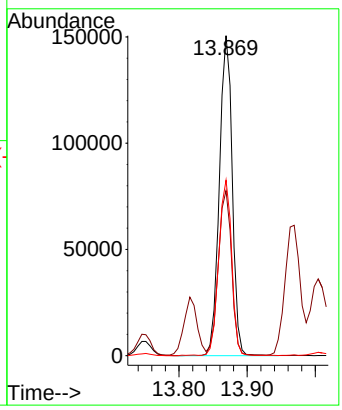


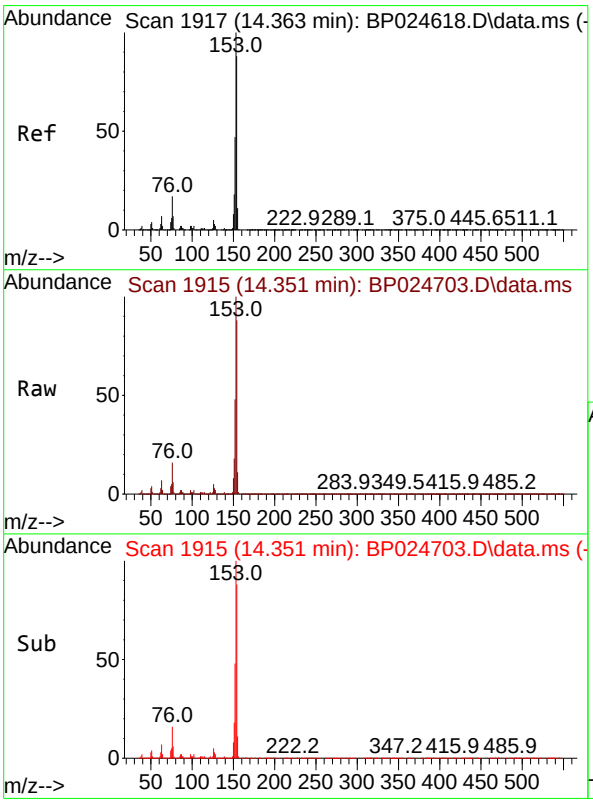
#51
2,6-Dinitrotoluene
Concen: 38.712 ng
RT: 13.869 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 197446

Ion	Ratio	Lower	Upper
165	100		
63	51.6	42.4	63.6
89	54.8	44.8	67.2

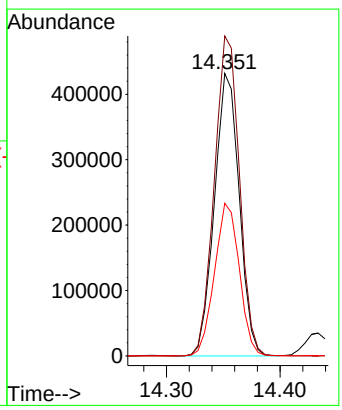


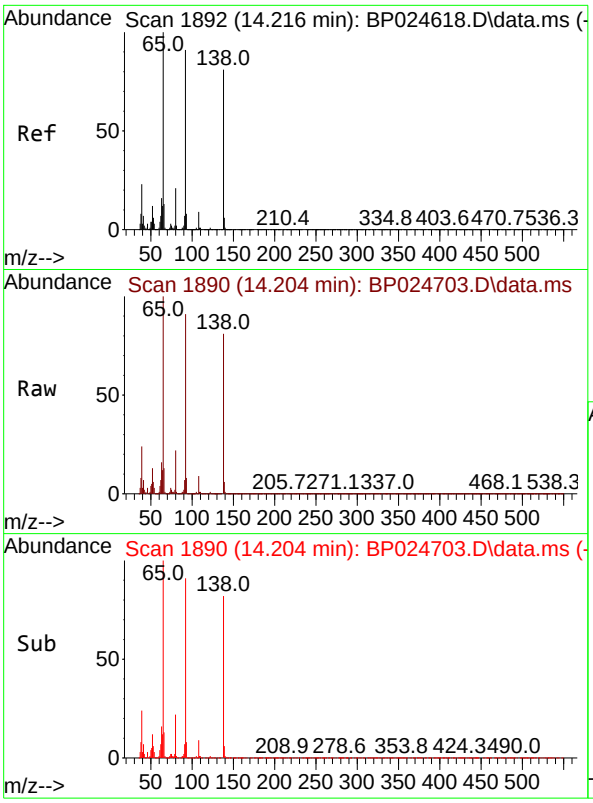


#52
Acenaphthene
Concen: 38.193 ng
RT: 14.351 min Scan# 1915
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:154 Resp: 656098

Ion	Ratio	Lower	Upper
154	100		
153	113.3	91.0	136.4
152	54.0	42.9	64.3



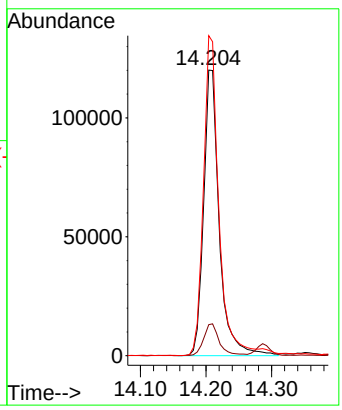


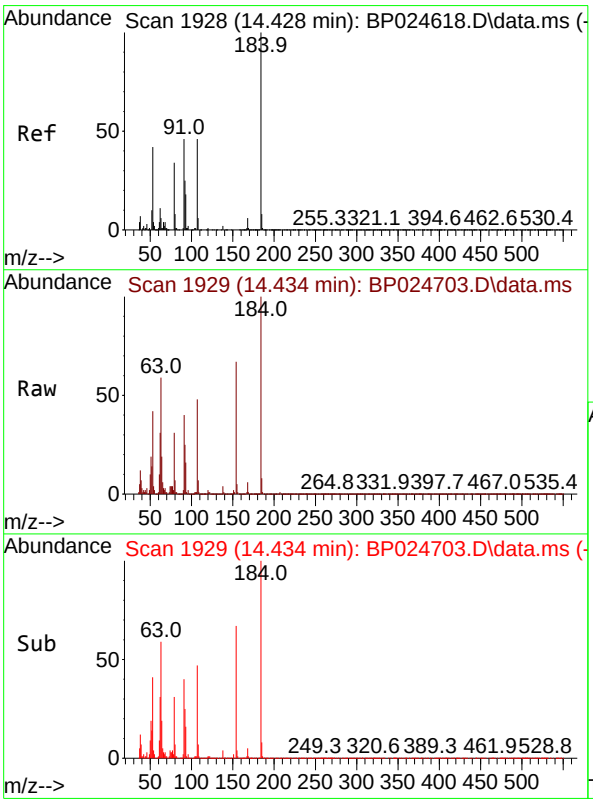
#53
3-Nitroaniline
Concen: 38.296 ng
RT: 14.204 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 199441

Ion	Ratio	Lower	Upper
138	100		
108	10.9	9.0	13.4
92	112.0	90.1	135.1

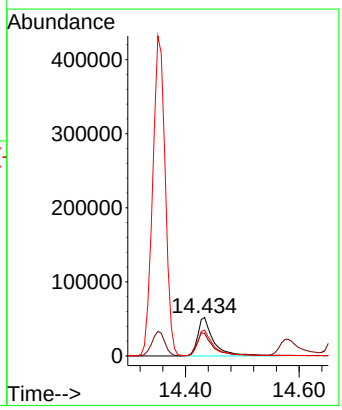


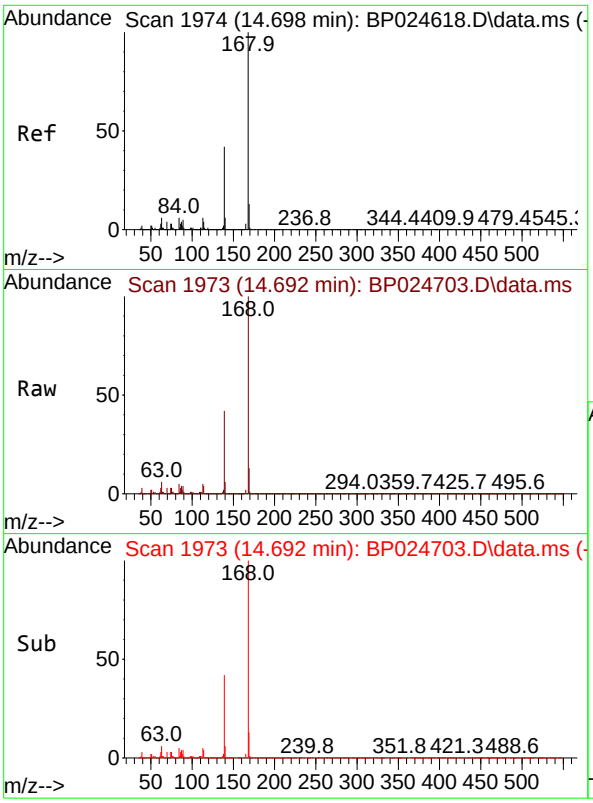


#54
2,4-Dinitrophenol
Concen: 35.323 ng
RT: 14.434 min Scan# 1929
Delta R.T. 0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:184 Resp: 101110

Ion	Ratio	Lower	Upper
184	100		
63	59.1	51.3	76.9
154	67.1	53.5	80.3



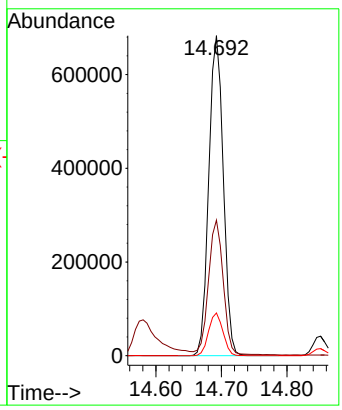


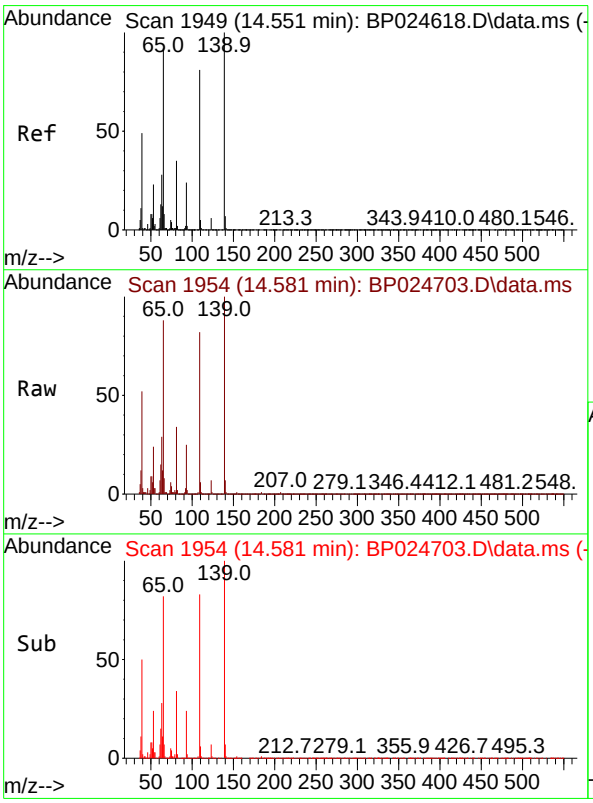
#55
Dibenzofuran
Concen: 38.252 ng
RT: 14.692 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 1048113

Ion	Ratio	Lower	Upper
168	100		
139	42.3	34.2	51.4
169	13.4	10.8	16.2

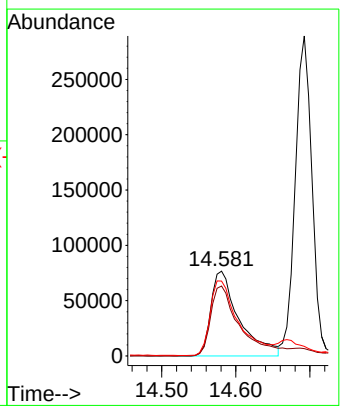


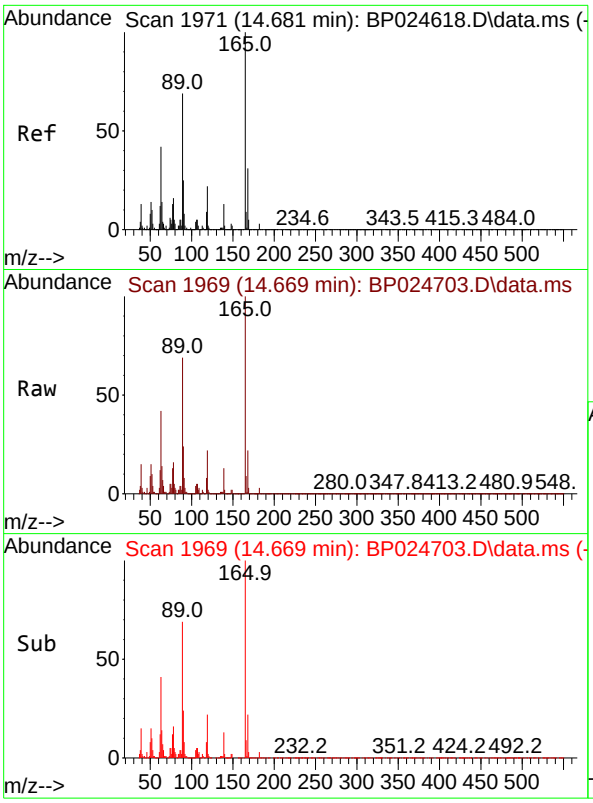


#56
4-Nitrophenol
Concen: 46.802 ng
RT: 14.581 min Scan# 1954
Delta R.T. 0.030 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:139 Resp: 202652

Ion	Ratio	Lower	Upper
139	100		
109	82.4	61.4	101.4
65	88.3	72.2	112.2



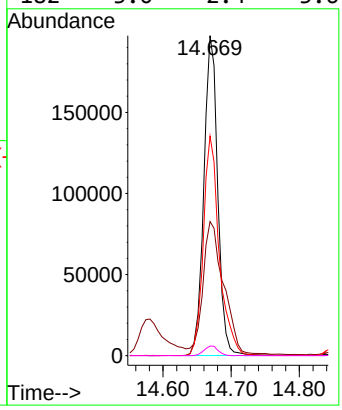


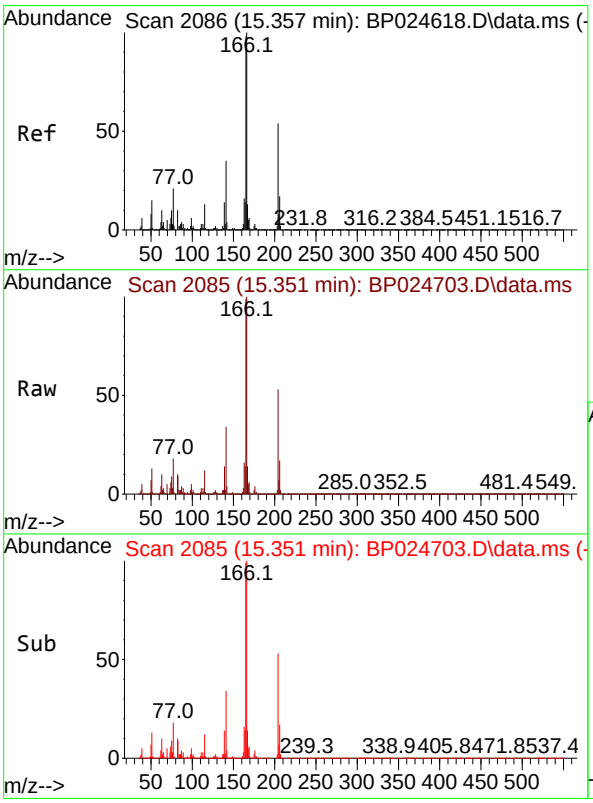
#57
2,4-Dinitrotoluene
Concen: 38.874 ng
RT: 14.669 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 279529

Ion	Ratio	Lower	Upper
165	100		
63	41.9	33.8	50.6
89	68.6	55.6	83.4
182	3.0	2.4	3.6

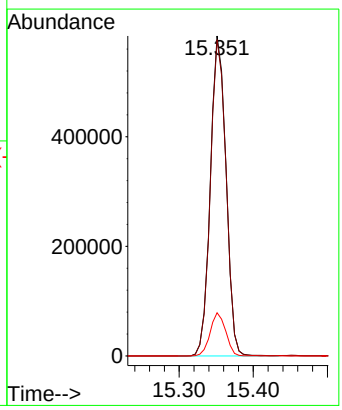


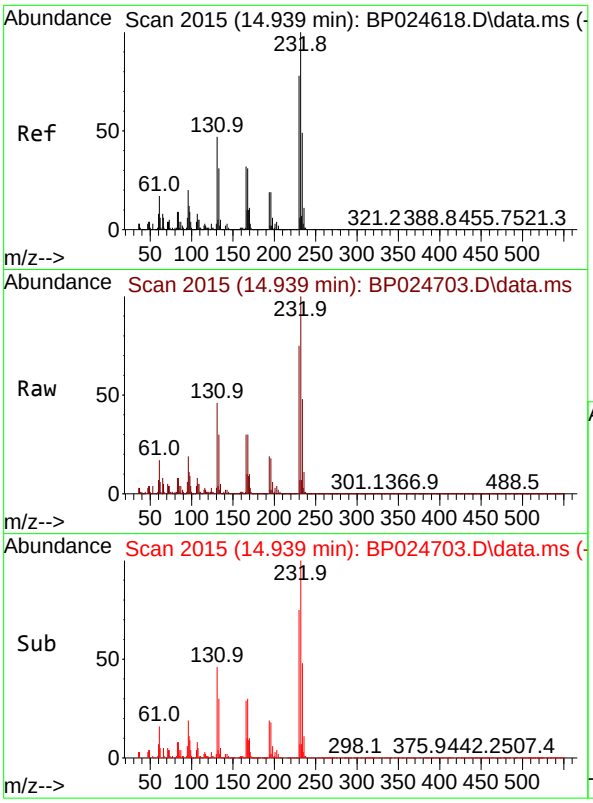


#58
Fluorene
Concen: 38.395 ng
RT: 15.351 min Scan# 2085
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:166 Resp: 857836

Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.5	117.7
167	13.5	10.7	16.1



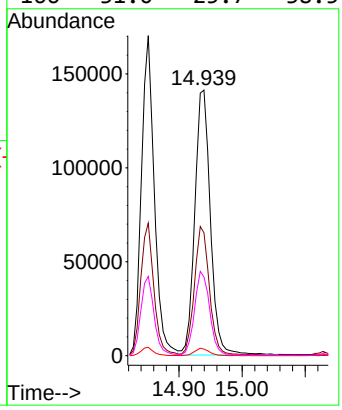


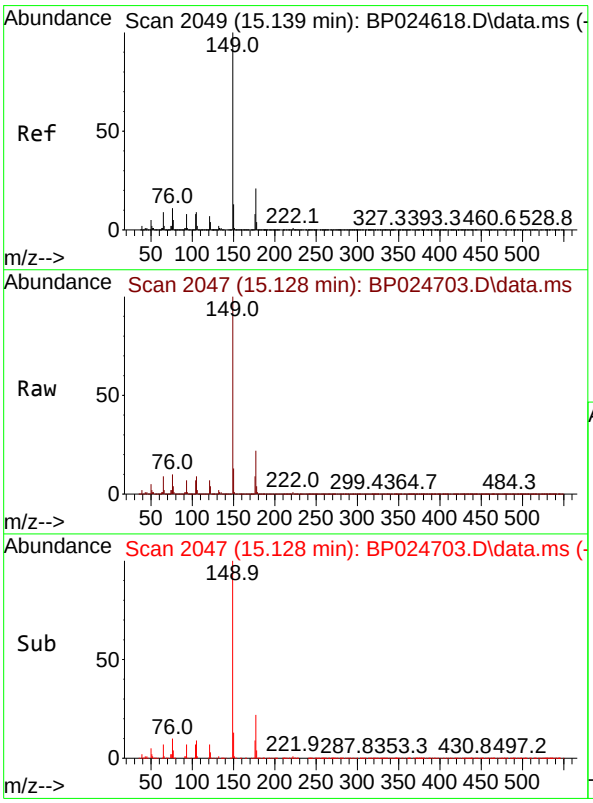
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.256 ng
RT: 14.939 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 241572

Ion	Ratio	Lower	Upper
232	100		
131	47.1	39.5	59.3
130	2.7	2.2	3.4
166	31.0	25.7	38.5

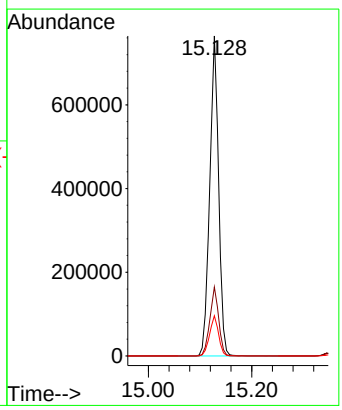


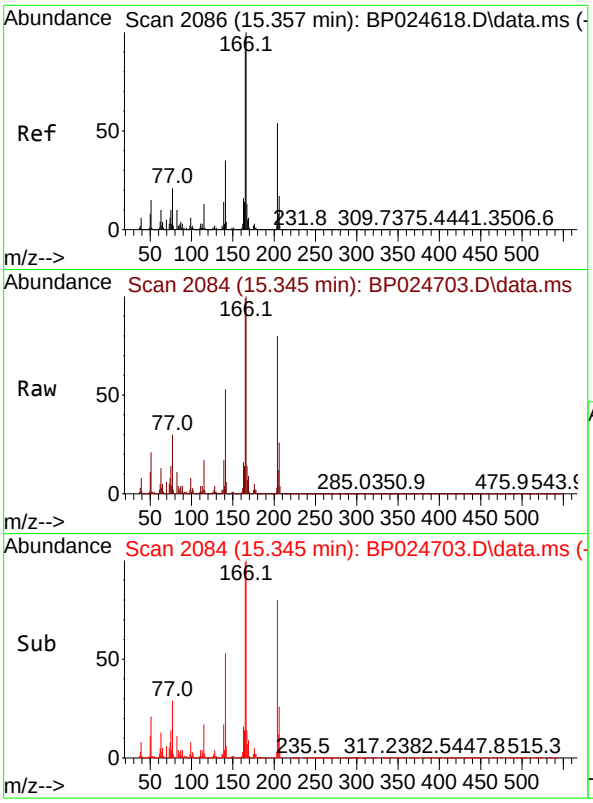


#60
Diethylphthalate
Concen: 37.342 ng
RT: 15.128 min Scan# 2047
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:149 Resp: 911477

Ion	Ratio	Lower	Upper
149	100		
177	21.6	16.7	25.1
150	12.5	10.2	15.2



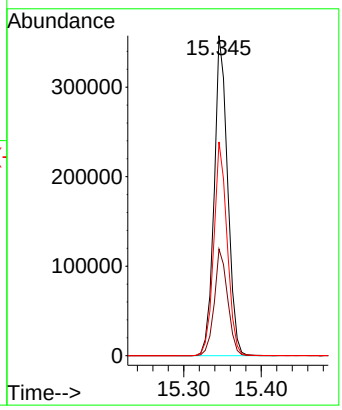


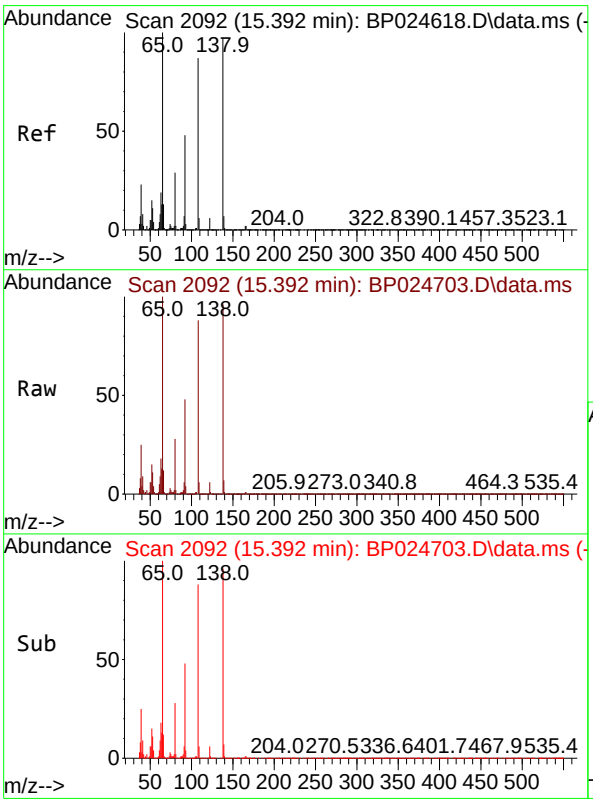
#61
4-Chlorophenyl-phenylether
Concen: 38.622 ng
RT: 15.345 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 430331

Ion	Ratio	Lower	Upper
204	100		
206	33.3	26.0	39.0
141	66.8	52.9	79.3

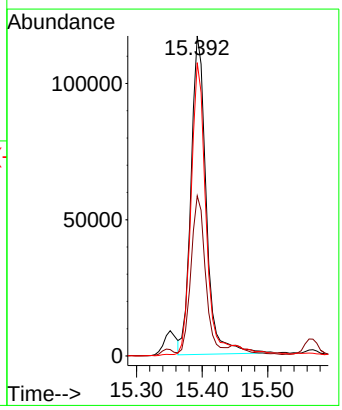


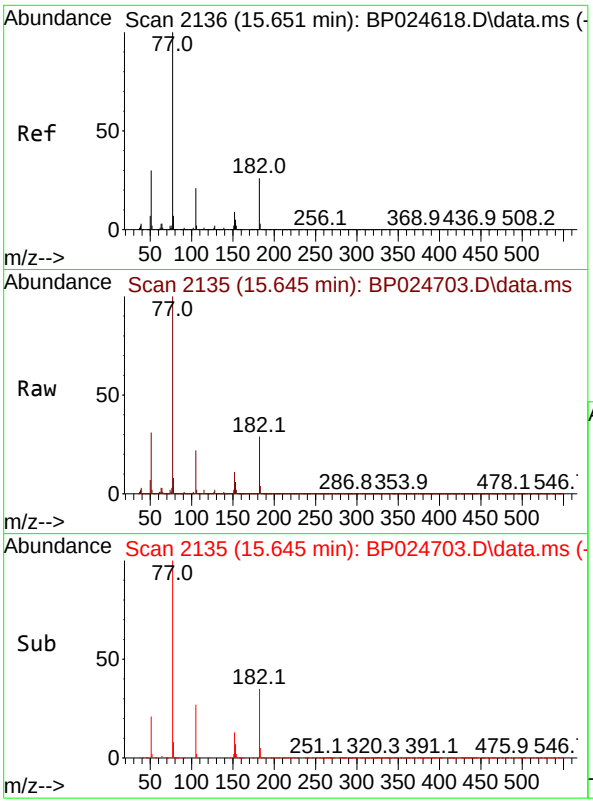


#62
4-Nitroaniline
Concen: 37.633 ng
RT: 15.392 min Scan# 2092
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:138 Resp: 189242

Ion	Ratio	Lower	Upper
138	100		
92	50.1	29.2	69.2
108	91.6	69.0	109.0



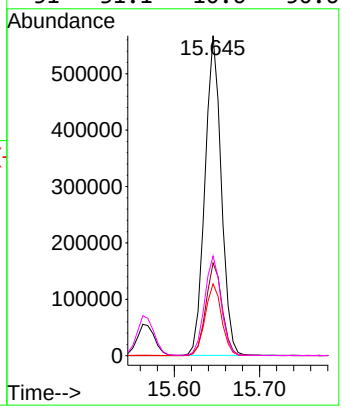


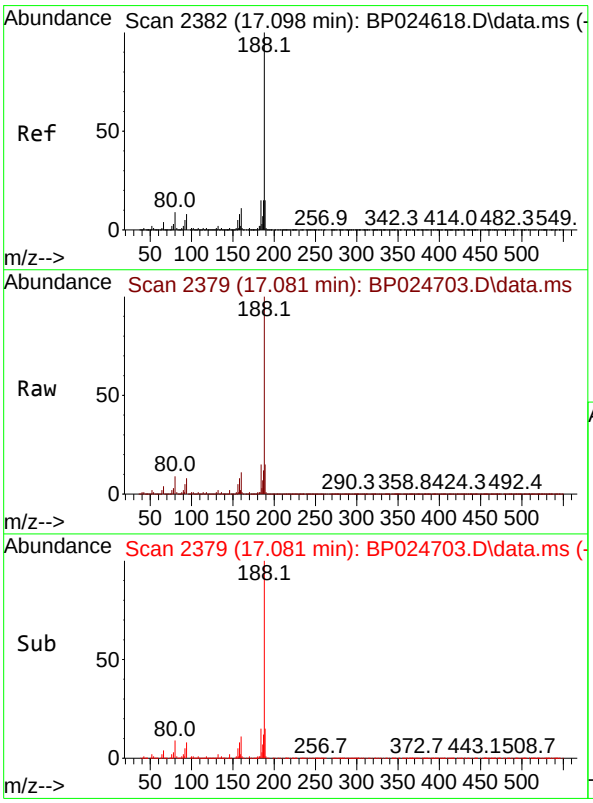
#63
Azobenzene
Concen: 36.055 ng
RT: 15.645 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 752861

Ion	Ratio	Lower	Upper
77	100		
182	29.0	5.7	45.7
105	22.4	1.3	41.3
51	31.1	10.6	50.6

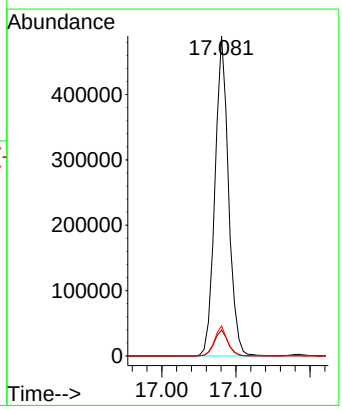


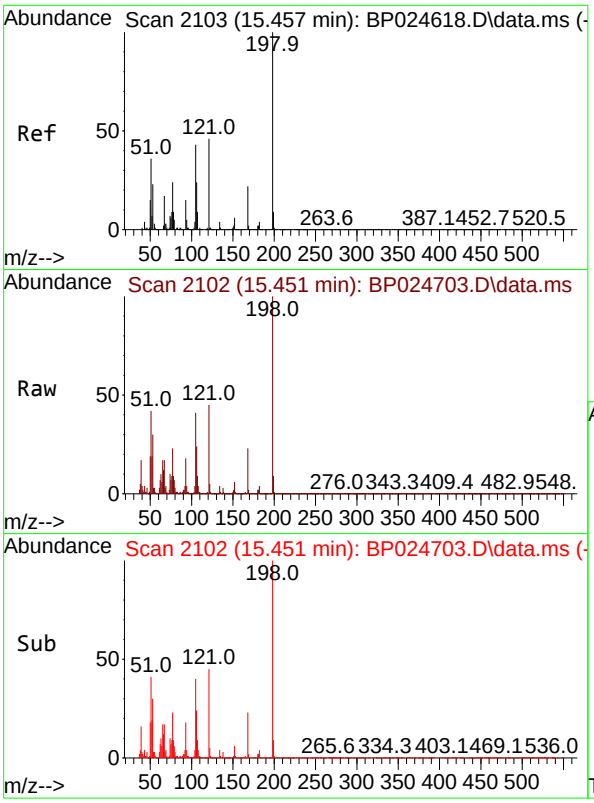


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.081 min Scan# 2379
Delta R.T. -0.018 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:188 Resp: 620396

Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.5	9.7
80	9.4	7.3	10.9



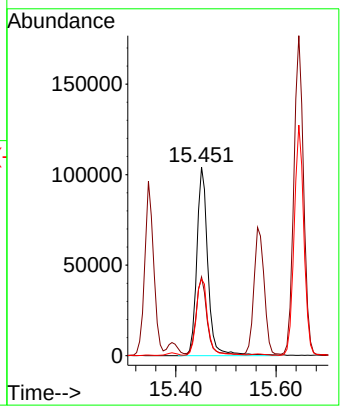


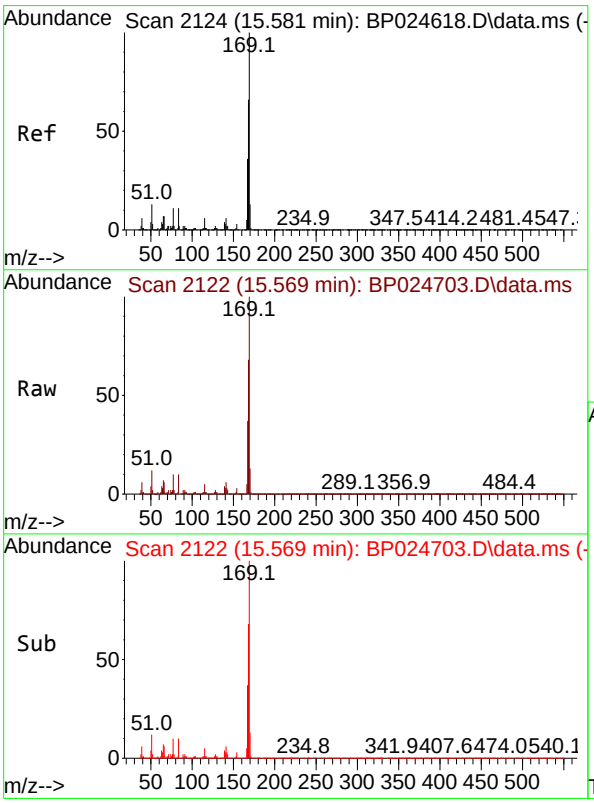
#65
4,6-Dinitro-2-methylphenol
Concen: 39.652 ng
RT: 15.451 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 158899

Ion	Ratio	Lower	Upper
198	100		
51	41.7	21.1	61.1
105	40.6	23.6	63.6

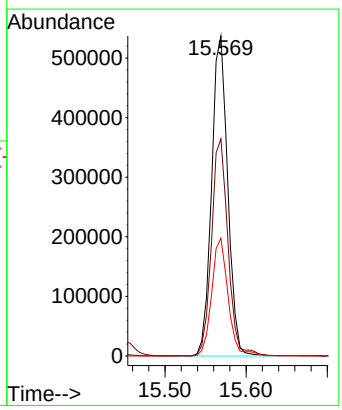


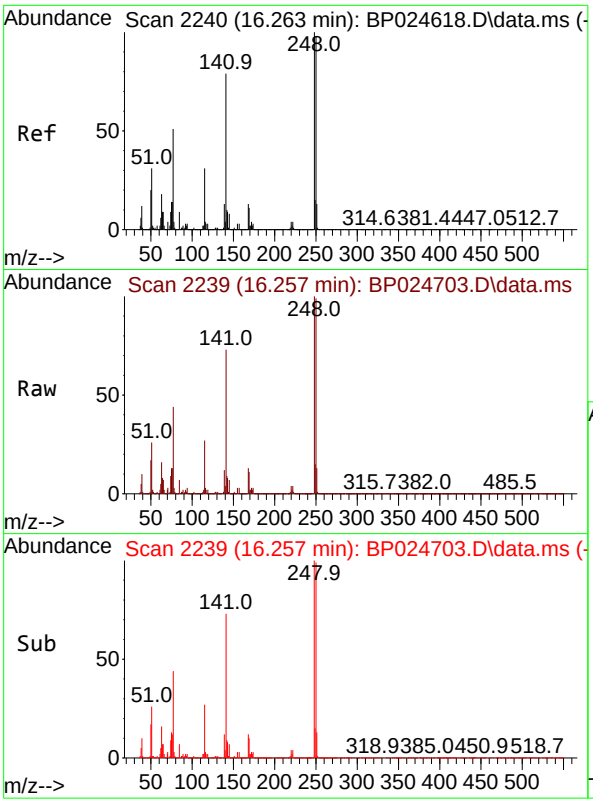


#66
n-Nitrosodiphenylamine
Concen: 38.839 ng
RT: 15.569 min Scan# 2122
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:169 Resp: 740115

Ion	Ratio	Lower	Upper
169	100		
168	67.9	53.2	79.8
167	36.8	28.6	43.0



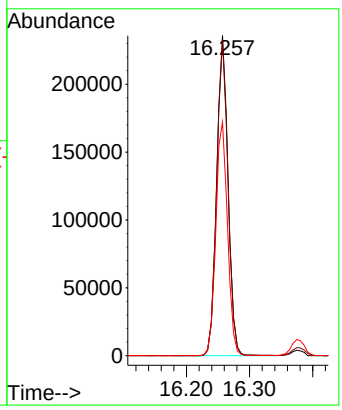


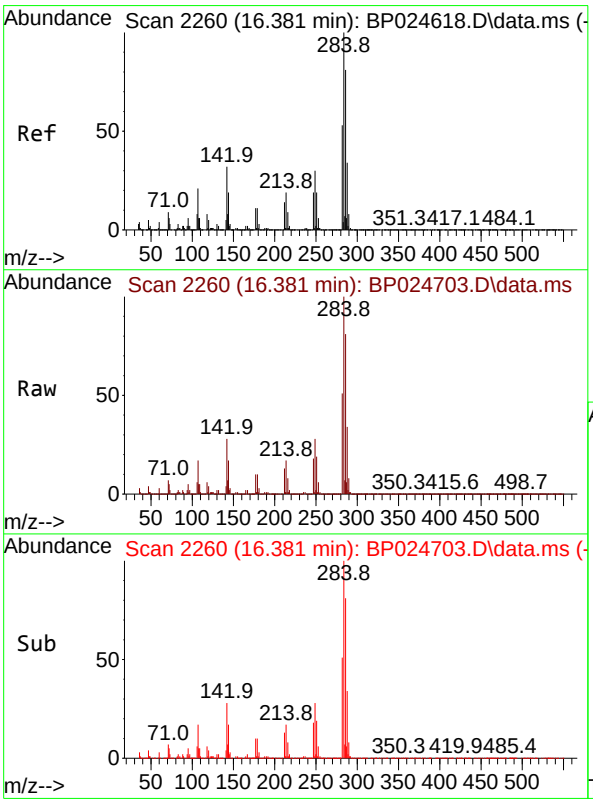
#67
4-Bromophenyl-phenylether
Concen: 40.410 ng
RT: 16.257 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 295412

Ion	Ratio	Lower	Upper
248	100		
250	98.6	78.2	117.4
141	73.0	63.0	94.6

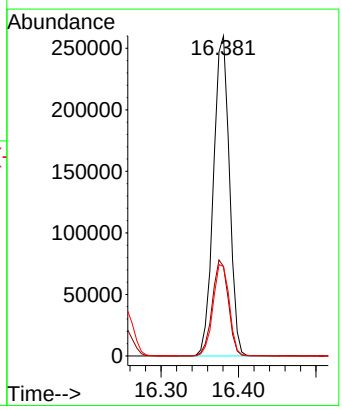


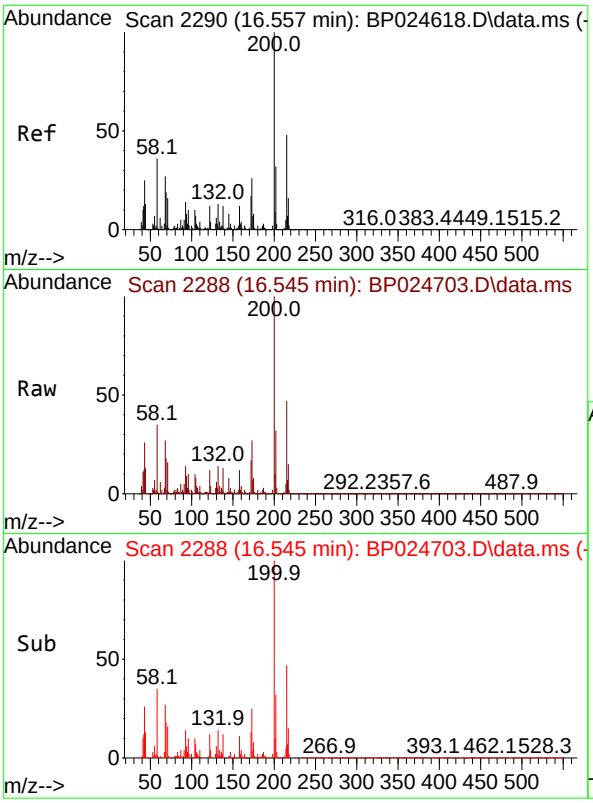


#68
Hexachlorobenzene
Concen: 39.938 ng
RT: 16.381 min Scan# 2260
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:284 Resp: 370994

Ion	Ratio	Lower	Upper
284	100		
142	28.0	25.9	38.9
249	28.0	24.1	36.1



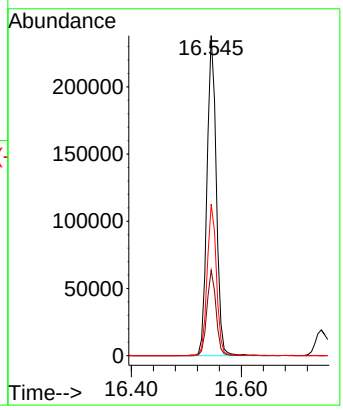


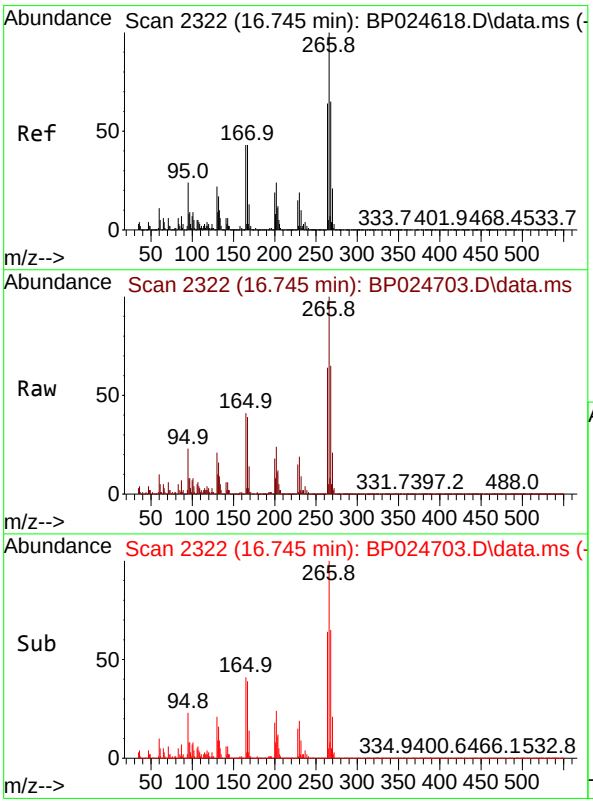
#69
Atrazine
Concen: 39.750 ng
RT: 16.545 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 277598

Ion	Ratio	Lower	Upper
200	100		
173	26.7	5.9	45.9
215	47.3	28.3	68.3

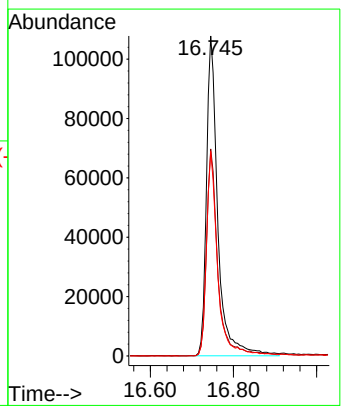


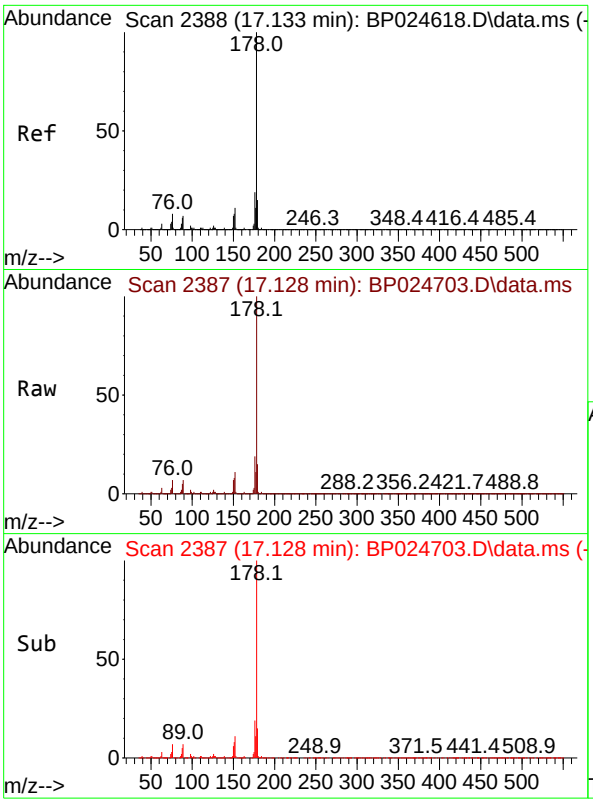


#70
Pentachlorophenol
Concen: 39.278 ng
RT: 16.745 min Scan# 2322
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:266 Resp: 204812

Ion	Ratio	Lower	Upper
266	100		
268	64.7	52.2	78.4
264	63.9	51.1	76.7



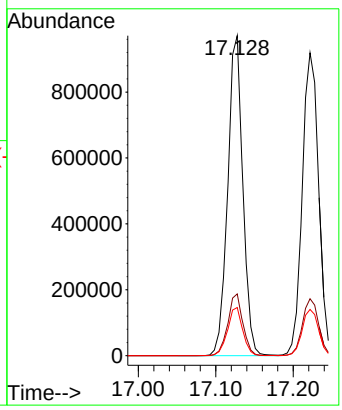


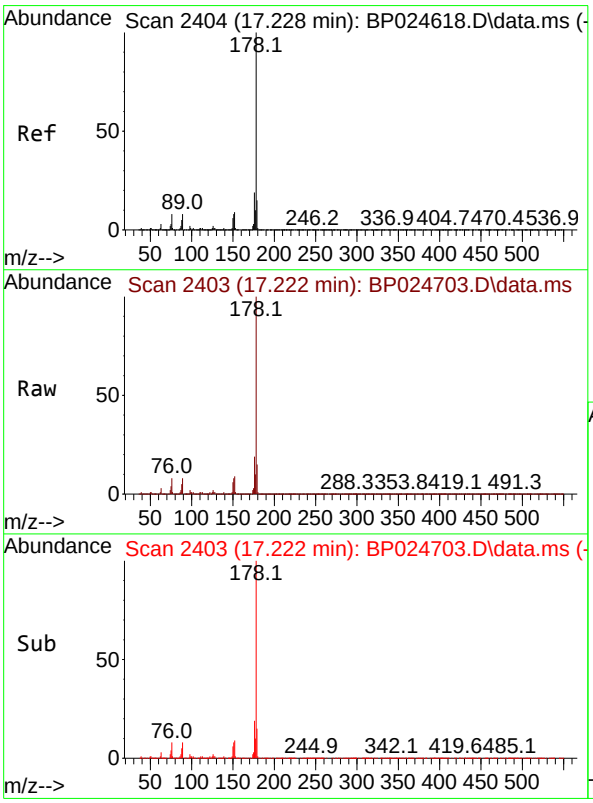
#71
Phenanthrene
Concen: 38.323 ng
RT: 17.128 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 1321707

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.0	12.2	18.4

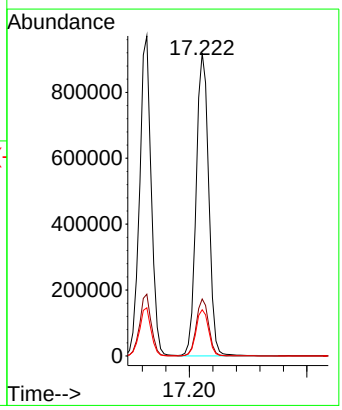


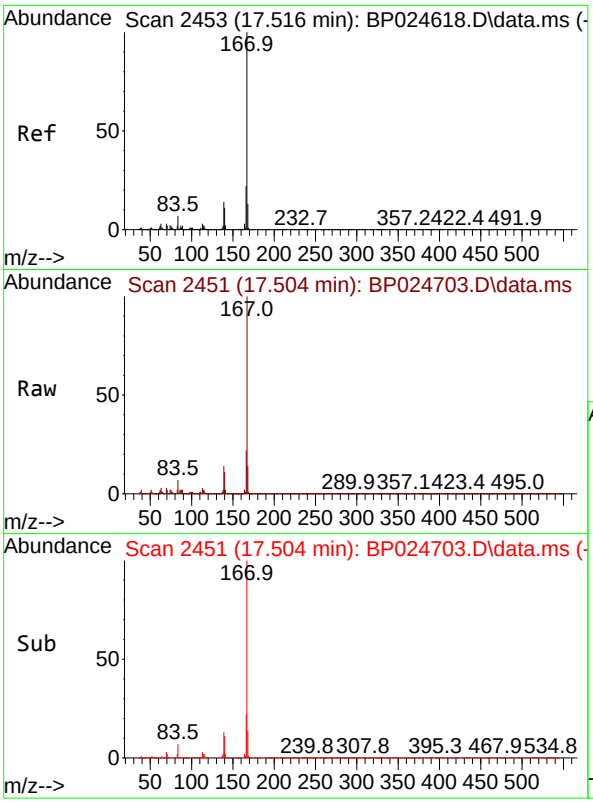


#72
Anthracene
Concen: 39.076 ng
RT: 17.222 min Scan# 2403
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:178 Resp: 1355916

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.3	12.2	18.2



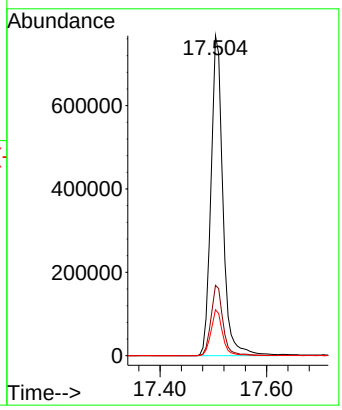


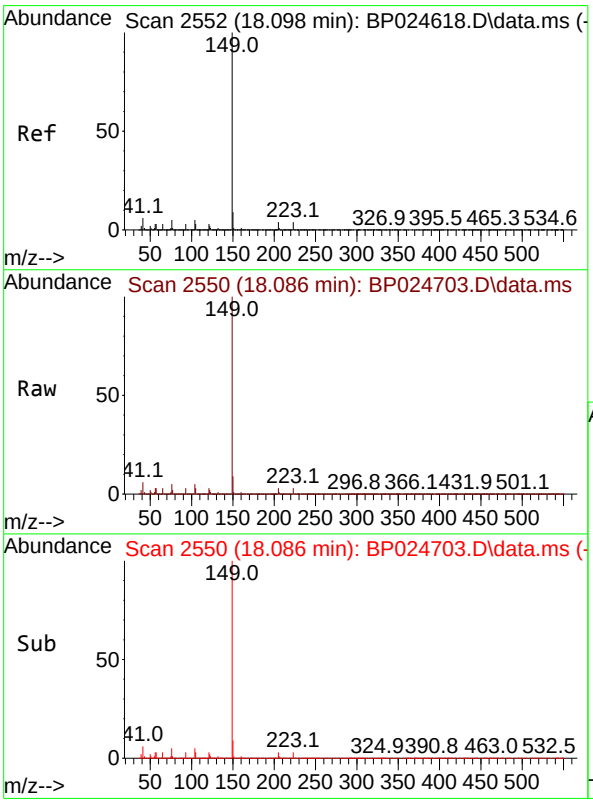
#73
Carbazole
Concen: 38.152 ng
RT: 17.504 min Scan# 24
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 1198207

Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.7	26.5
139	14.4	11.3	16.9

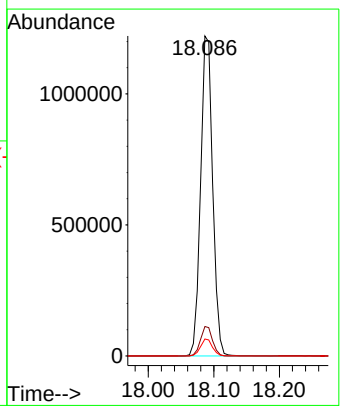


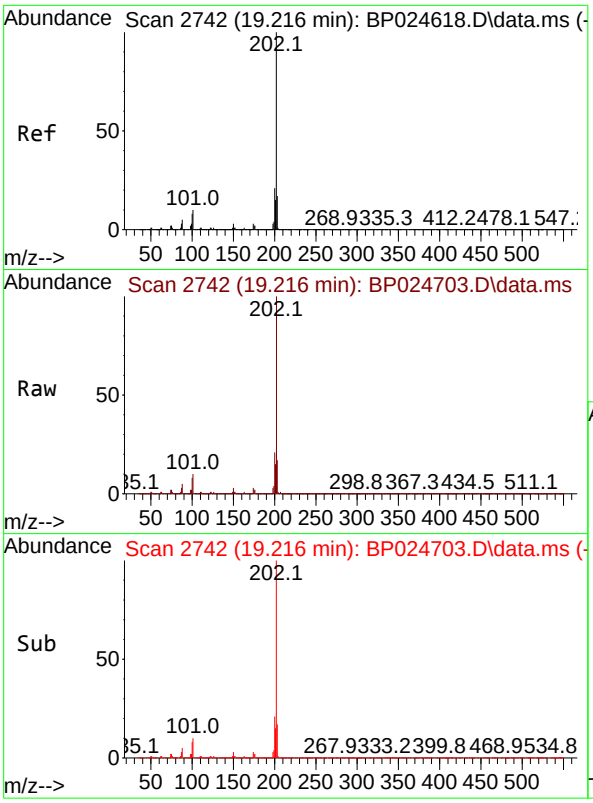


#74
Di-n-butylphthalate
Concen: 38.795 ng
RT: 18.086 min Scan# 2550
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:149 Resp: 1566966

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	5.3	4.3	6.5



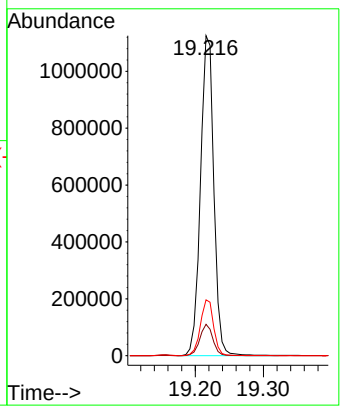


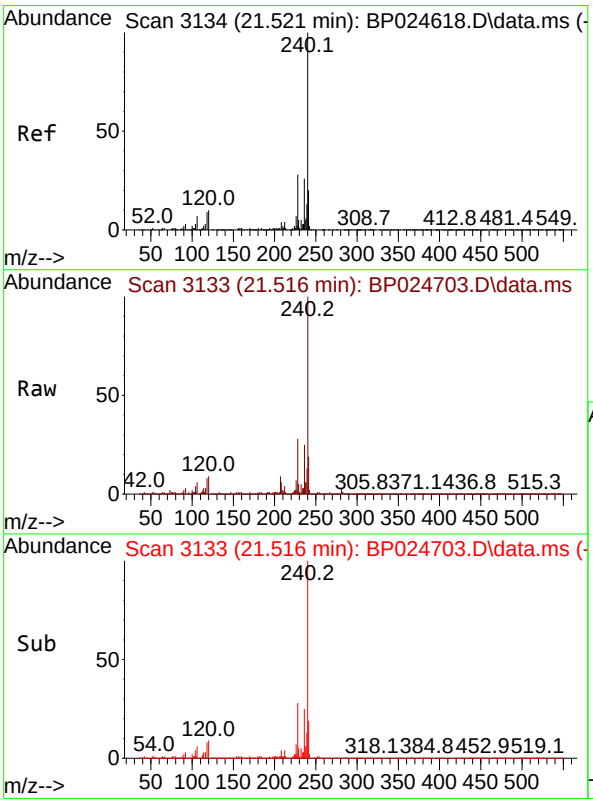
#75
Fluoranthene
Concen: 37.992 ng
RT: 19.216 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 1531668

Ion	Ratio	Lower	Upper
202	100		
101	9.8	0.0	30.3
203	17.5	0.0	37.5

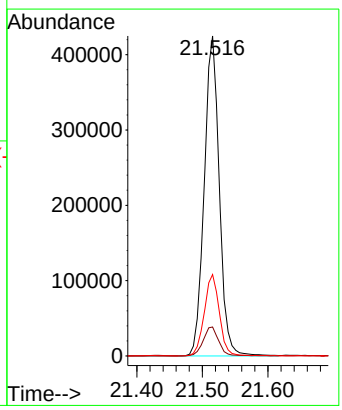


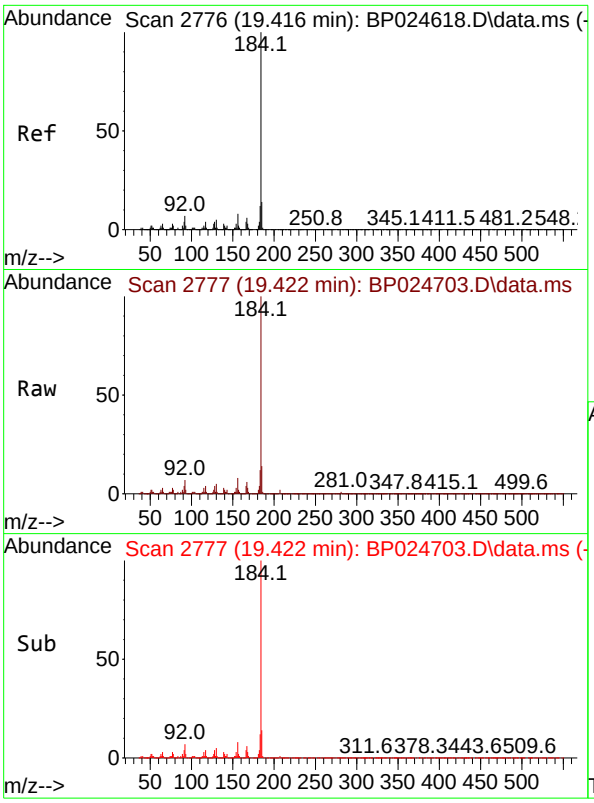


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.516 min Scan# 3133
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:240 Resp: 679929

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.8	11.6
236	25.4	20.6	31.0



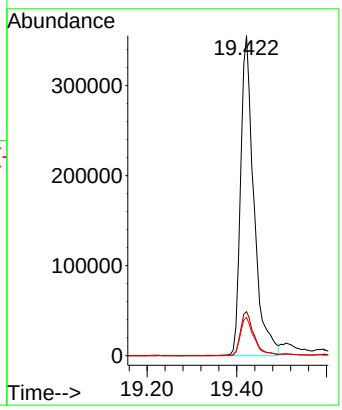


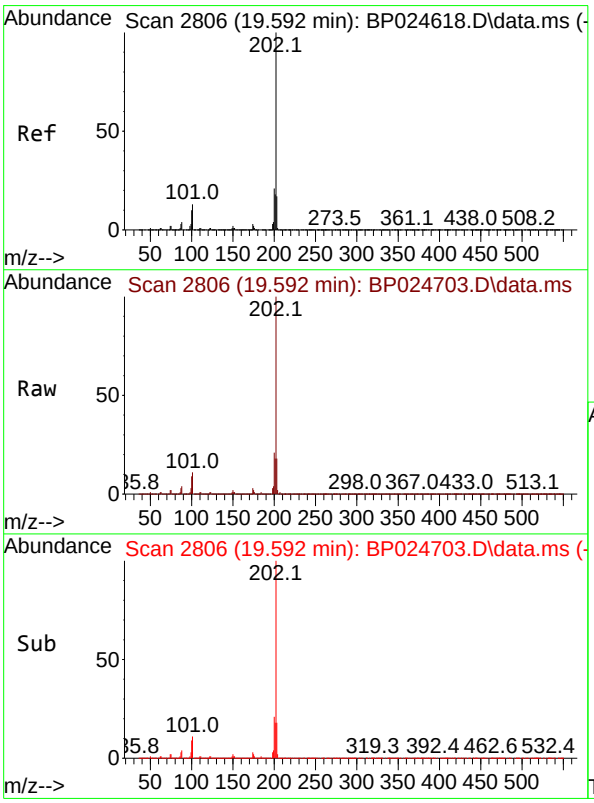
#77
Benzidine
Concen: 39.203 ng
RT: 19.422 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 725976

Ion	Ratio	Lower	Upper
184	100		
185	13.7	11.2	16.8
183	12.0	9.8	14.8

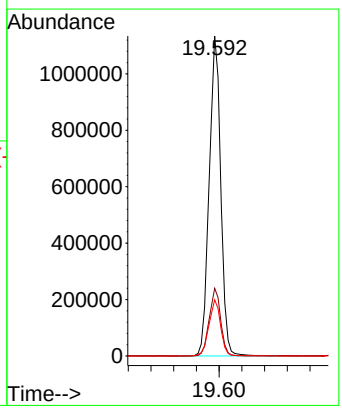


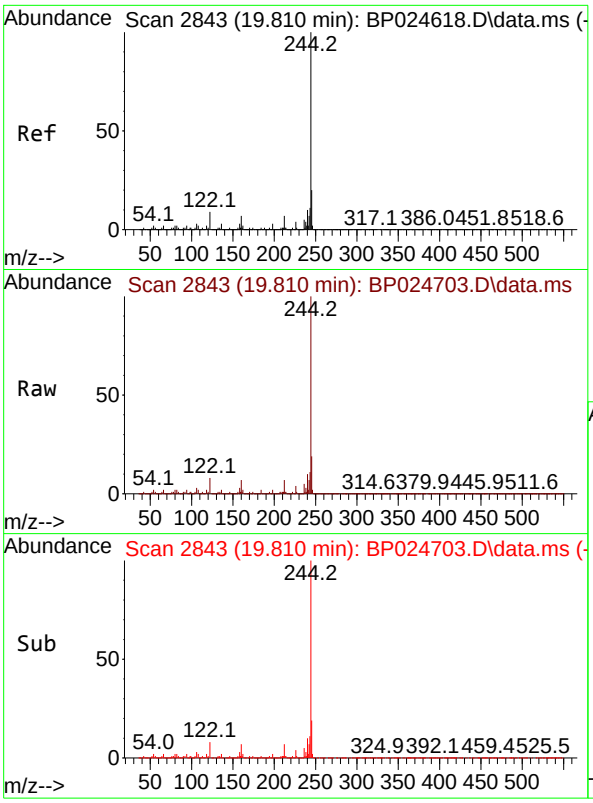


#78
Pyrene
Concen: 39.077 ng
RT: 19.592 min Scan# 2806
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:202 Resp: 1591992

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.6	13.9	20.9



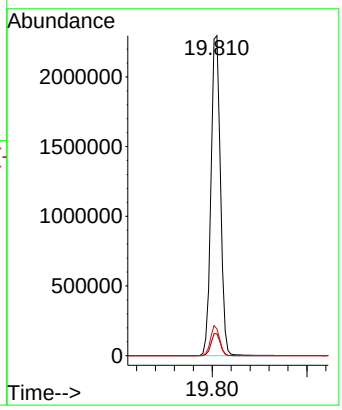


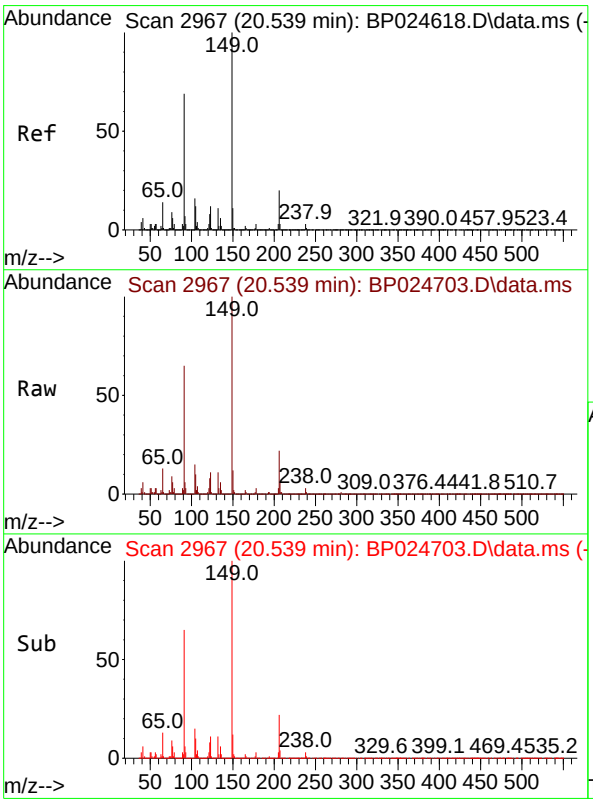
#79
Terphenyl-d14
Concen: 80.045 ng
RT: 19.810 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 3174042

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.5	8.3
122	8.4	7.4	11.0

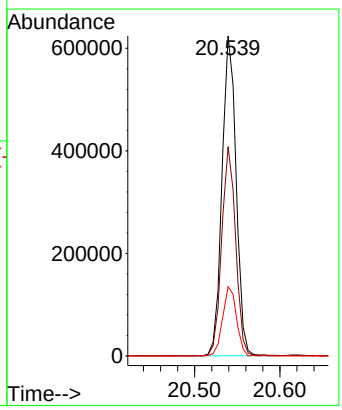


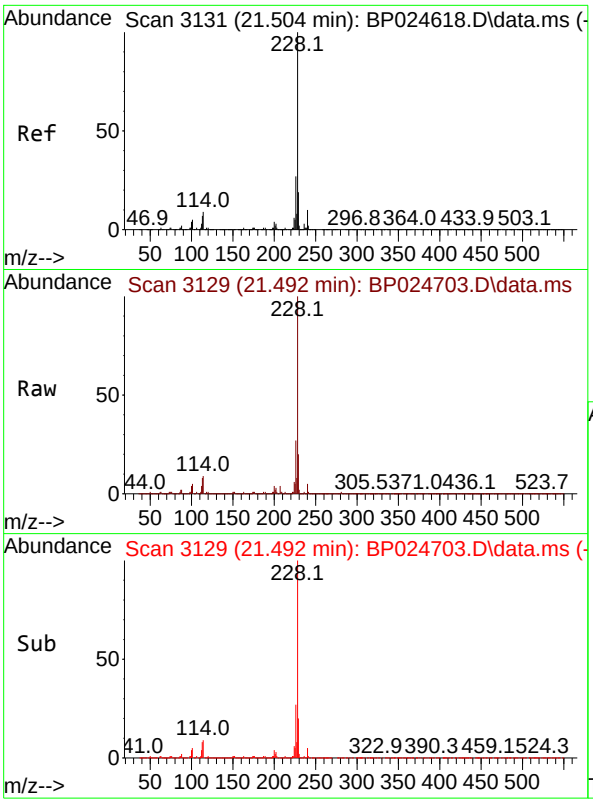


#80
Butylbenzylphthalate
Concen: 39.544 ng
RT: 20.539 min Scan# 2967
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:149 Resp: 716477

Ion	Ratio	Lower	Upper
149	100		
91	65.4	55.4	83.0
206	21.7	16.2	24.2



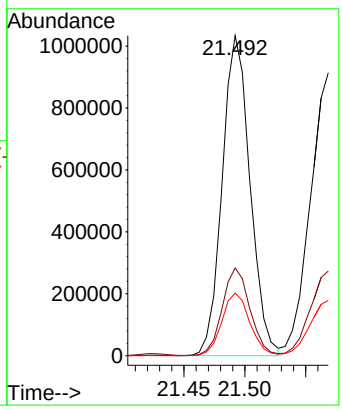


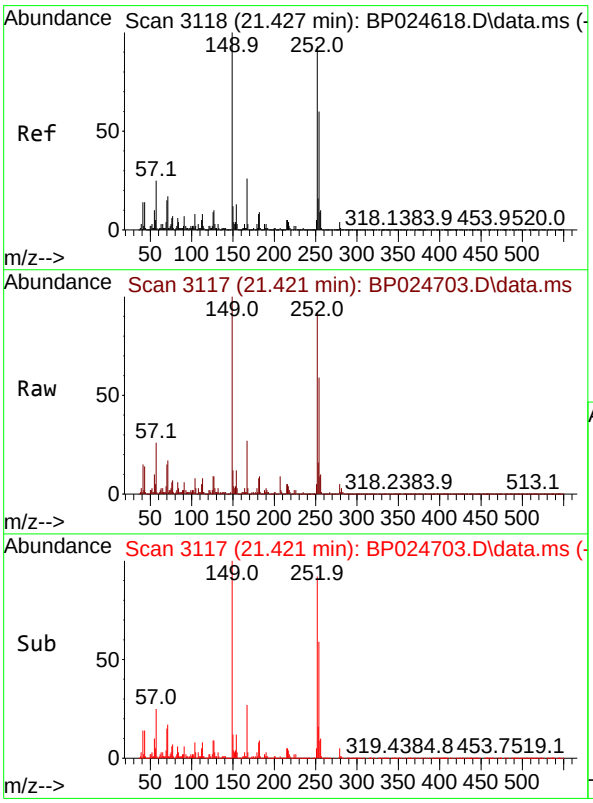
#81
Benzo(a)anthracene
Concen: 38.539 ng
RT: 21.492 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1645382

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.4	32.0
229	19.6	15.5	23.3

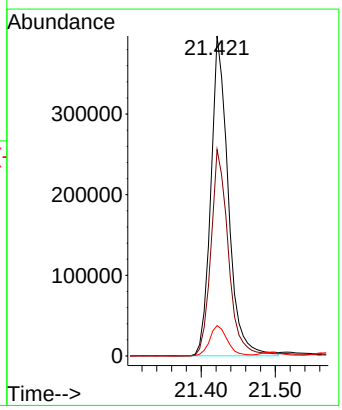


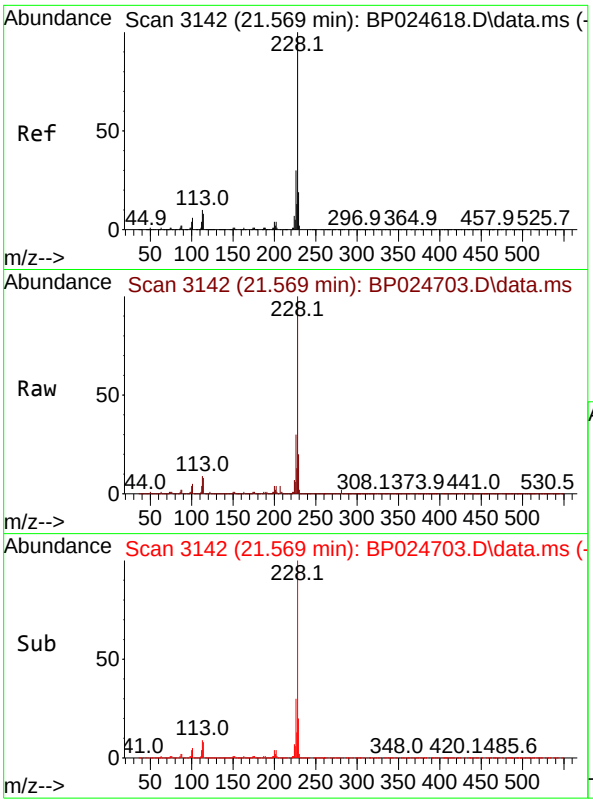


#82
3,3'-Dichlorobenzidine
Concen: 40.800 ng
RT: 21.421 min Scan# 3117
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:252 Resp: 646986

Ion	Ratio	Lower	Upper
252	100		
254	64.5	51.8	77.6
126	9.5	7.7	11.5



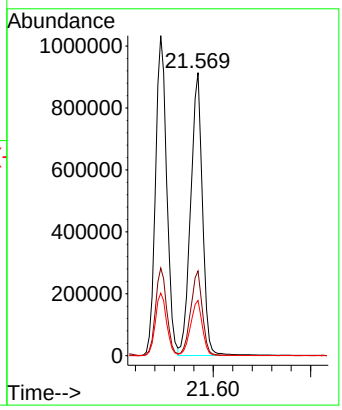


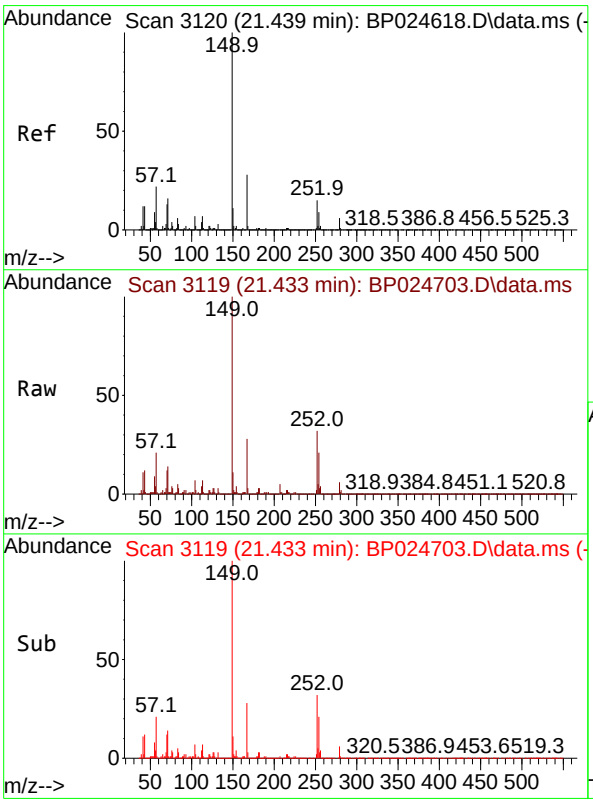
#83
Chrysene
Concen: 38.139 ng
RT: 21.569 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1543547

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.9	35.9
229	19.5	15.5	23.3

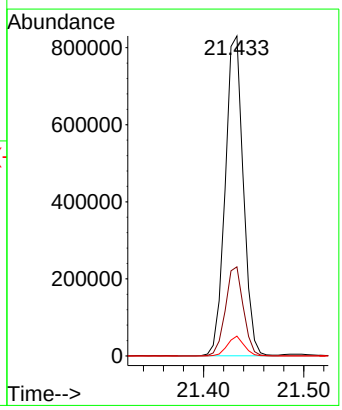


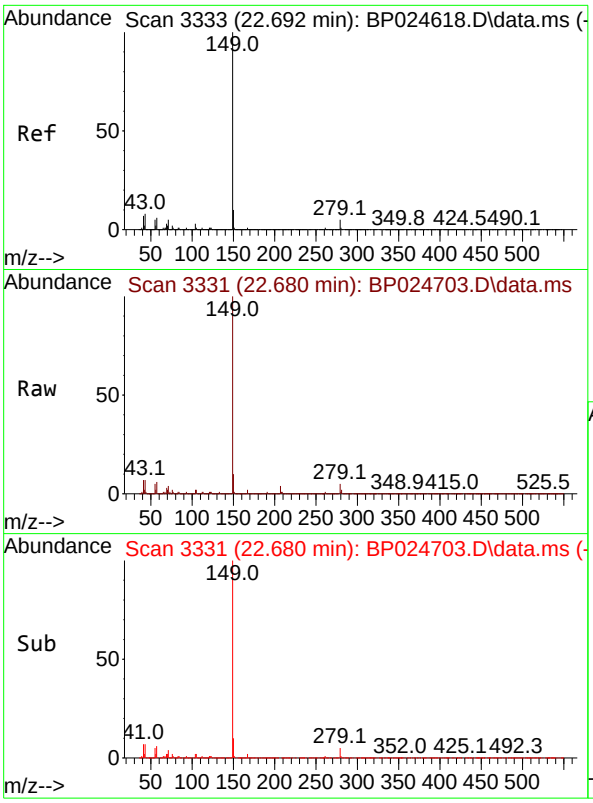


#84
Bis(2-ethylhexyl)phthalate
Concen: 39.018 ng
RT: 21.433 min Scan# 3119
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:149 Resp: 1039093

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.1	33.1
279	6.2	4.6	6.8



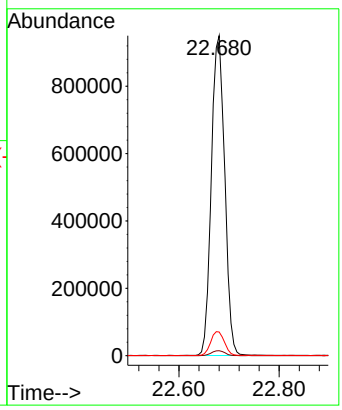


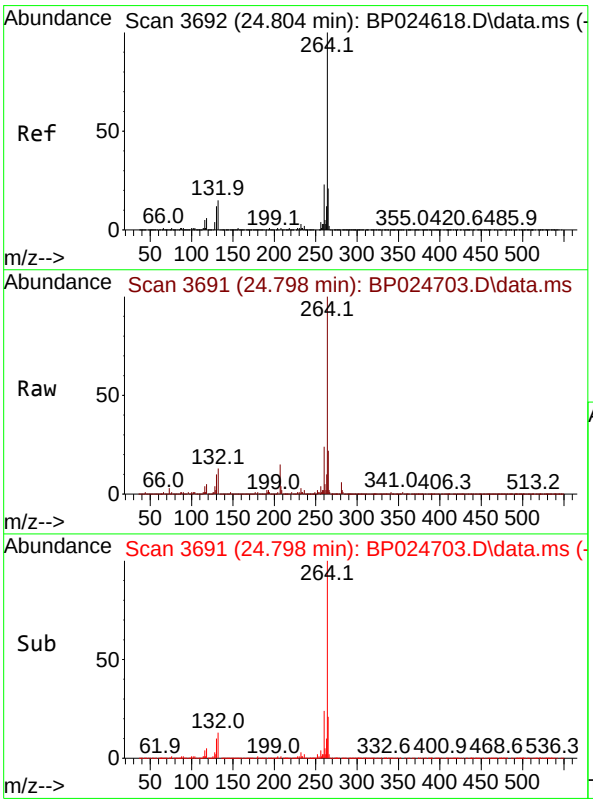
#85
Di-n-octyl phthalate
Concen: 40.266 ng
RT: 22.680 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 1753560

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.6	6.3	9.5

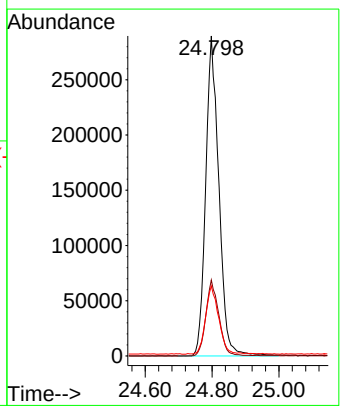


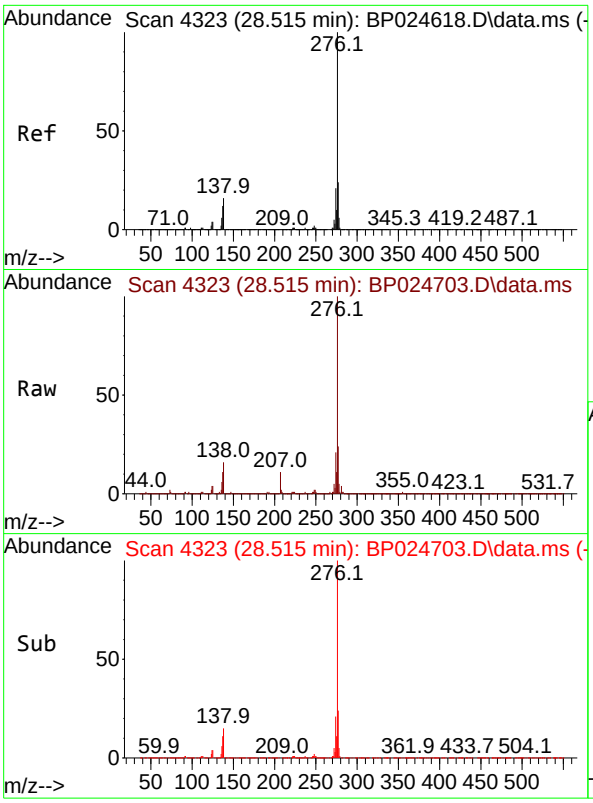


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.798 min Scan# 3691
Delta R.T. -0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:264 Resp: 792201

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.7	28.1
265	21.9	17.0	25.6



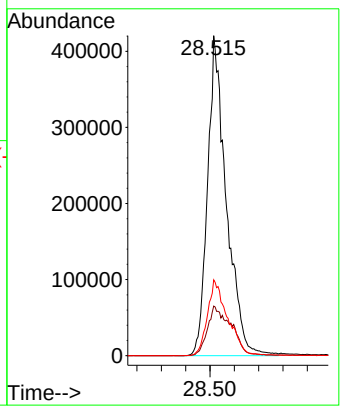


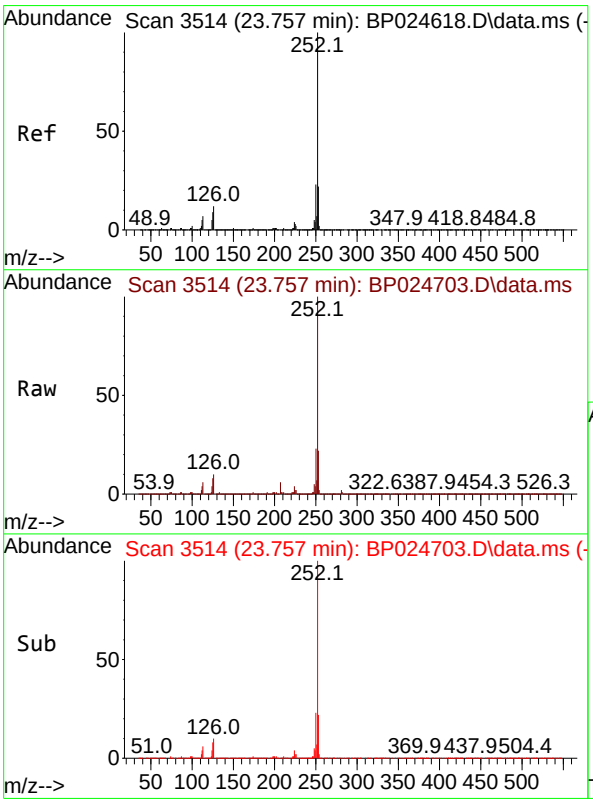
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.903 ng
RT: 28.515 min Scan# 4
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 2249969

Ion	Ratio	Lower	Upper
276	100		
138	19.5	11.2	16.8#
277	25.5	15.7	23.5#

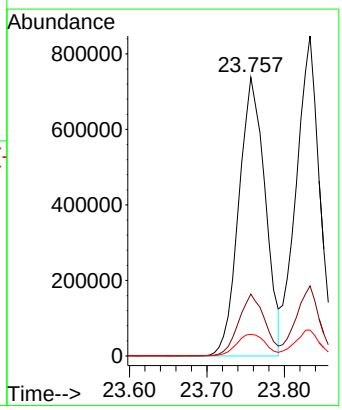


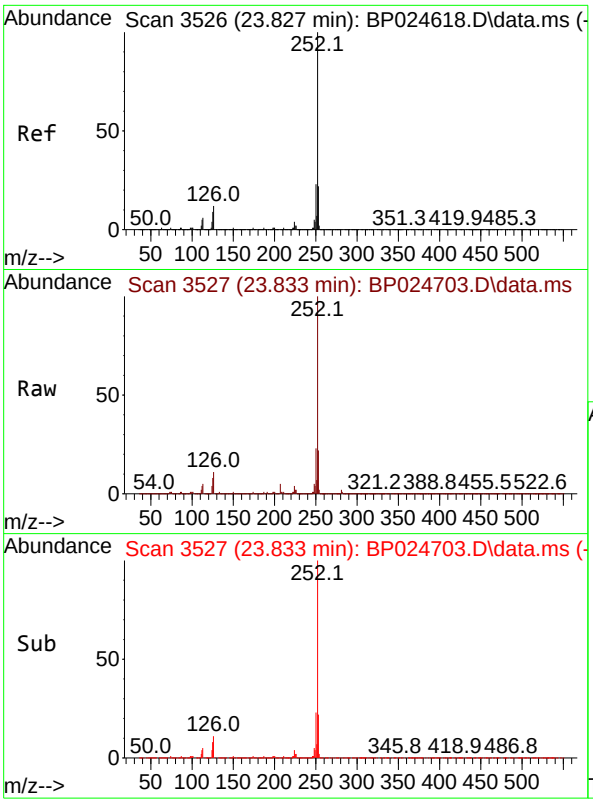


#88
Benzo(b)fluoranthene
Concen: 38.496 ng
RT: 23.757 min Scan# 3514
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:252 Resp: 1745599

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	7.8	7.5	11.3



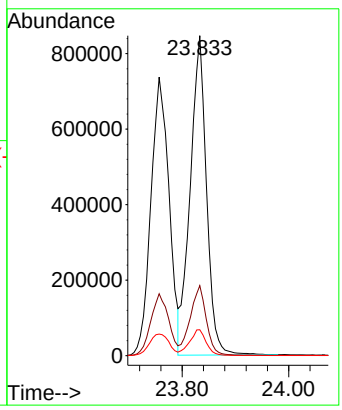


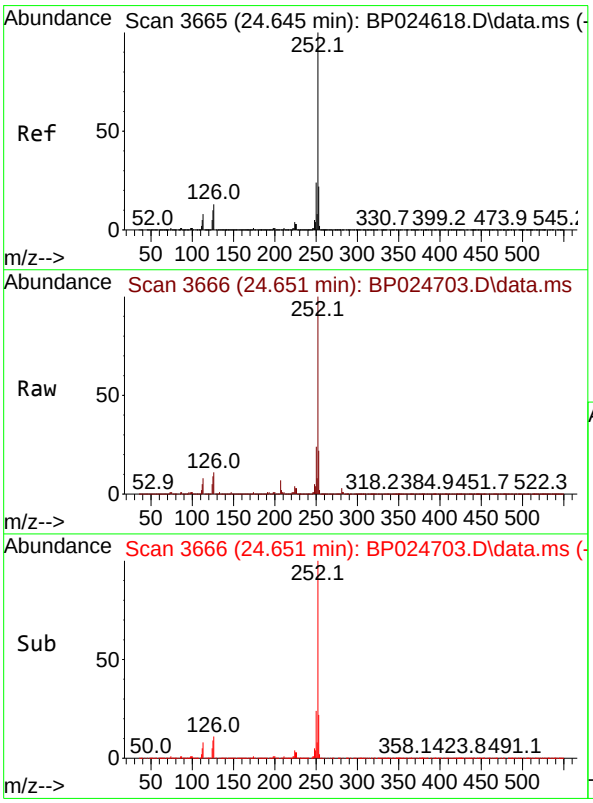
#89
Benzo(k)fluoranthene
Concen: 38.409 ng
RT: 23.833 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 1794614

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4
125	8.1	7.0	10.4

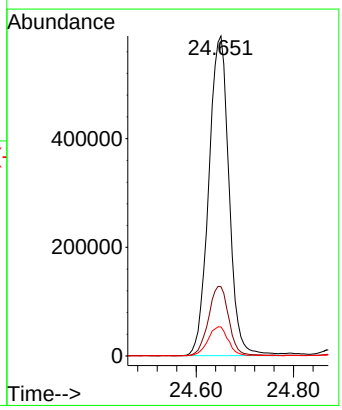


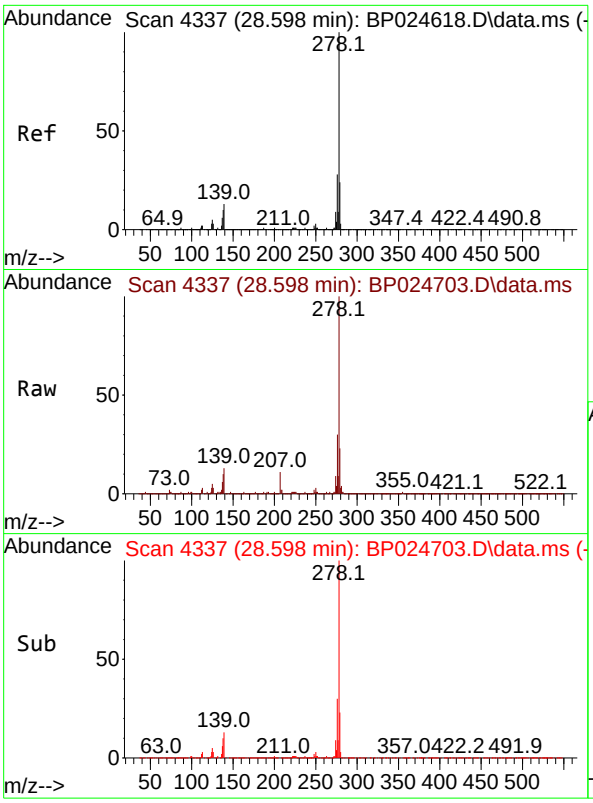


#90
Benzo(a)pyrene
Concen: 38.890 ng
RT: 24.651 min Scan# 3666
Delta R.T. 0.006 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:252 Resp: 1693647

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	9.1	8.1	12.1



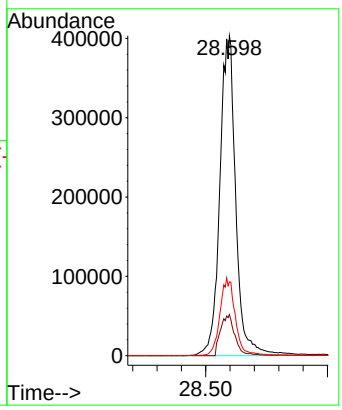


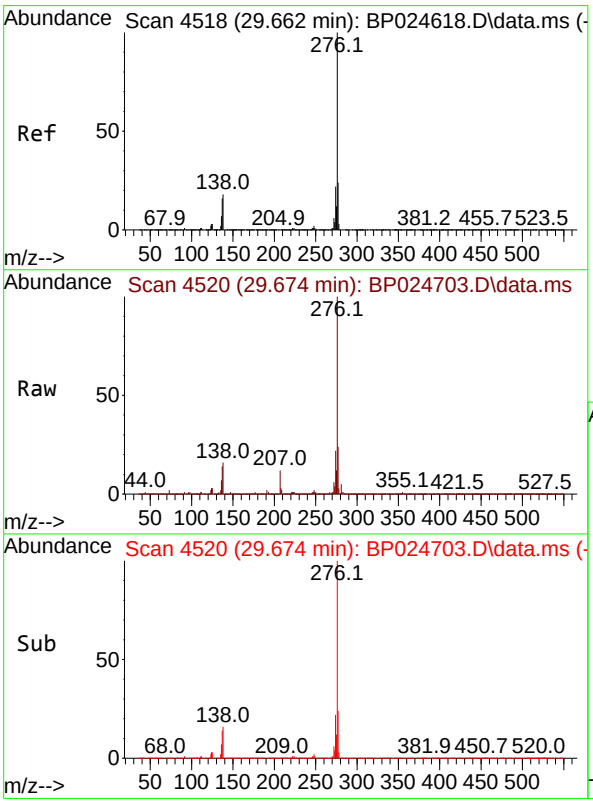
#91
Dibenzo(a,h)anthracene
Concen: 38.874 ng
RT: 28.598 min Scan# 4
Delta R.T. -0.000 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 1829060

Ion	Ratio	Lower	Upper
278	100		
139	12.8	10.2	15.4
279	23.0	19.0	28.4

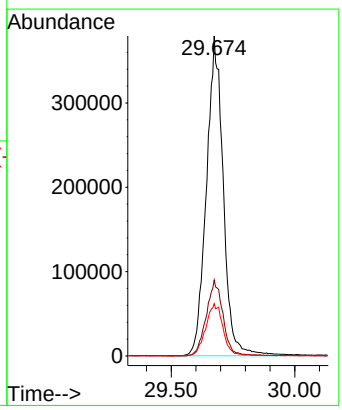




#92
Benzo(g,h,i)perylene
Concen: 38.222 ng
RT: 29.674 min Scan# 4520
Delta R.T. 0.012 min
Lab File: BP024703.D
Acq: 20 May 2025 11:52

Tgt Ion:276 Resp: 1788388

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.4
138	16.3	14.4	21.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024703.D
Acq On : 20 May 2025 11:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 20 12:59:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	102	0.00
2		1,4-Dioxane	0.549	0.490	10.7	99	0.00
3		Pyridine	1.218	1.138	6.6	97	0.00
4		n-Nitrosodimethylamine	0.538	0.511	5.0	101	0.00
5	S	2-Fluorophenol	1.169	1.129	3.4	104	0.00
6		Aniline	1.927	1.764	8.5	94	0.00
7	S	Phenol-d6	1.492	1.410	5.5	98	0.00
8		2-Chlorophenol	1.327	1.280	3.5	100	0.00
9		Benzaldehyde	0.966	0.885	8.4	95	-0.01
10	C	Phenol	1.540	1.418	7.9	96	0.00
11		bis(2-Chloroethyl)ether	1.266	1.114	12.0	94	0.00
12		1,3-Dichlorobenzene	1.527	1.450	5.0	103	0.00
13	C	1,4-Dichlorobenzene	1.536	1.463	4.8	102	0.00
14		1,2-Dichlorobenzene	1.497	1.417	5.3	102	0.00
15		Benzyl Alcohol	1.134	1.079	4.9	96	0.00
16		2,2'-oxybis(1-Chloropropane	1.516	1.340	11.6	93	0.00
17		2-Methylphenol	1.105	1.022	7.5	95	0.00
18		Hexachloroethane	0.589	0.545	7.5	101	-0.01
19	P	n-Nitroso-di-n-propylamine	1.032	0.915	11.3	89	0.00
20		3+4-Methylphenols	1.503	1.381	8.1	93	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	93	0.00
22		Acetophenone	0.500	0.472	5.6	91	0.00
23	S	Nitrobenzene-d5	0.396	0.375	5.3	92	0.00
24		Nitrobenzene	0.348	0.330	5.2	91	0.00
25		Isophorone	0.687	0.624	9.2	87	0.00
26	C	2-Nitrophenol	0.171	0.178	-4.1	97	-0.01
27		2,4-Dimethylphenol	0.301	0.296	1.7	93	0.00
28		bis(2-Chloroethoxy)methane	0.410	0.367	10.5	86	-0.01
29	C	2,4-Dichlorophenol	0.292	0.289	1.0	93	0.01
30		1,2,4-Trichlorobenzene	0.329	0.327	0.6	100	-0.01
31		Naphthalene	1.036	0.995	4.0	95	0.00
32		Benzoic acid	0.181	0.176	2.8	86	0.02
33		4-Chloroaniline	0.418	0.409	2.2	91	0.00
34	C	Hexachlorobutadiene	0.213	0.211	0.9	100	0.00
35		Caprolactam	0.106	0.098	7.5	84	0.00
36	C	4-Chloro-3-methylphenol	0.356	0.337	5.3	88	0.00
37		2-Methylnaphthalene	0.671	0.634	5.5	93	0.00
38		1-Methylnaphthalene	0.718	0.674	6.1	91	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	87	-0.02
40		1,2,4,5-Tetrachlorobenzene	0.581	0.583	-0.3	93	0.00
41	P	Hexachlorocyclopentadiene	0.352	0.351	0.3	86	0.00
42	S	2,4,6-Tribromophenol	0.339	0.348	-2.7	94	0.00
43	C	2,4,6-Trichlorophenol	0.376	0.384	-2.1	91	0.00
44		2,4,5-Trichlorophenol	0.419	0.427	-1.9	92	0.01
45	S	2-Fluorobiphenyl	1.527	1.512	1.0	92	-0.01
46		1,1'-Biphenyl	1.478	1.420	3.9	90	0.00
47		2-Chloronaphthalene	1.127	1.097	2.7	90	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024703.D
Acq On : 20 May 2025 11:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 20 12:59:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	0.334	0.320	4.2	84	-0.01
49		Acenaphthylene	1.886	1.792	5.0	87	-0.01
50		Dimethylphthalate	1.524	1.412	7.3	85	0.00
51		2,6-Dinitrotoluene	0.322	0.312	3.1	87	-0.01
52	C	Acenaphthene	1.084	1.035	4.5	88	-0.01
53		3-Nitroaniline	0.329	0.315	4.3	81	-0.01
54	P	2,4-Dinitrophenol	0.169	0.160	5.3	81	0.00
55		Dibenzofuran	1.730	1.654	4.4	89	0.00
56	P	4-Nitrophenol	0.250	0.320	-28.0#	109	0.03
57		2,4-Dinitrotoluene	0.454	0.441	2.9	85	-0.01
58		Fluorene	1.410	1.354	4.0	89	0.00
59		2,3,4,6-Tetrachlorophenol	0.388	0.381	1.8	88	0.00
60		Diethylphthalate	1.541	1.438	6.7	87	-0.01
61		4-Chlorophenyl-phenylether	0.703	0.679	3.4	91	-0.01
62		4-Nitroaniline	0.317	0.299	5.7	79	0.00
63		Azobenzene	1.318	1.188	9.9	83	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	86	-0.02
65		4,6-Dinitro-2-methylphenol	0.129	0.128	0.8	86	0.00
66	c	n-Nitrosodiphenylamine	0.614	0.596	2.9	87	-0.01
67		4-Bromophenyl-phenylether	0.236	0.238	-0.8	91	0.00
68		Hexachlorobenzene	0.299	0.299	0.0	92	0.00
69		Atrazine	0.225	0.224	0.4	89	-0.01
70	C	Pentachlorophenol	0.168	0.165	1.8	83	0.00
71		Phenanthrene	1.112	1.065	4.2	88	0.00
72		Anthracene	1.119	1.093	2.3	88	0.00
73		Carbazole	1.012	0.966	4.5	83	-0.01
74		Di-n-butylphthalate	1.302	1.263	3.0	87	-0.01
75	C	Fluoranthene	1.300	1.234	5.1	85	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	84	0.00
77		Benzidine	0.545	0.534	2.0	80	0.00
78		Pyrene	1.198	1.171	2.3	85	0.00
79	S	Terphenyl-d14	1.166	1.167	-0.1	87	0.00
80		Butylbenzylphthalate	0.533	0.527	1.1	84	0.00
81		Benzo(a)anthracene	1.256	1.210	3.7	84	-0.01
82		3,3'-Dichlorobenzidine	0.466	0.476	-2.1	84	0.00
83		Chrysene	1.190	1.135	4.6	84	0.00
84		Bis(2-ethylhexyl)phthalate	0.783	0.764	2.4	84	0.00
85	c	Di-n-octyl phthalate	1.281	1.290	-0.7	85	-0.01
86	I	Perylene-d12	1.000	1.000	0.0	85	0.00
87		Indeno(1,2,3-cd)pyrene	1.460	1.420	2.7	85	0.00
88		Benzo(b)fluoranthene	1.145	1.102	3.8	85	0.00
89		Benzo(k)fluoranthene	1.180	1.133	4.0	85	0.00
90	C	Benzo(a)pyrene	1.099	1.069	2.7	86	0.00
91		Dibenzo(a,h)anthracene	1.188	1.154	2.9	84	0.00
92		Benzo(g,h,i)perylene	1.181	1.129	4.4	84	0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024703.D
Acq On : 20 May 2025 11:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 20 12:59:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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_P\Data\BP052025\
Data File : BP024703.D
Acq On : 20 May 2025 11:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 20 12:59:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	102	0.00
2		1,4-Dioxane	40.000	35.672	10.8	99	0.00
3		Pyridine	40.000	37.400	6.5	97	0.00
4		n-Nitrosodimethylamine	40.000	37.995	5.0	101	0.00
5	S	2-Fluorophenol	80.000	77.239	3.5	104	0.00
6		Aniline	40.000	36.614	8.5	94	0.00
7	S	Phenol-d6	80.000	75.586	5.5	98	0.00
8		2-Chlorophenol	40.000	38.571	3.6	100	0.00
9		Benzaldehyde	40.000	36.642	8.4	95	-0.01
10	C	Phenol	40.000	36.834	7.9	96	0.00
11		bis(2-Chloroethyl)ether	40.000	35.195	12.0	94	0.00
12		1,3-Dichlorobenzene	40.000	37.969	5.1	103	0.00
13	C	1,4-Dichlorobenzene	40.000	38.098	4.8	102	0.00
14		1,2-Dichlorobenzene	40.000	37.873	5.3	102	0.00
15		Benzyl Alcohol	40.000	38.049	4.9	96	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	35.362	11.6	93	0.00
17		2-Methylphenol	40.000	37.017	7.5	95	0.00
18		Hexachloroethane	40.000	37.007	7.5	101	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	35.440	11.4	89	0.00
20		3+4-Methylphenols	40.000	36.755	8.1	93	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	93	0.00
22		Acetophenone	40.000	37.752	5.6	91	0.00
23	S	Nitrobenzene-d5	80.000	75.884	5.1	92	0.00
24		Nitrobenzene	40.000	37.838	5.4	91	0.00
25		Isophorone	40.000	36.360	9.1	87	0.00
26	C	2-Nitrophenol	40.000	41.786	-4.5	97	-0.01
27		2,4-Dimethylphenol	40.000	39.314	1.7	93	0.00
28		bis(2-Chloroethoxy)methane	40.000	35.782	10.5	86	-0.01
29	C	2,4-Dichlorophenol	40.000	39.583	1.0	93	0.01
30		1,2,4-Trichlorobenzene	40.000	39.761	0.6	100	-0.01
31		Naphthalene	40.000	38.402	4.0	95	0.00
32		Benzoic acid	40.000	35.775	10.6	86	0.02
33		4-Chloroaniline	40.000	39.100	2.2	91	0.00
34	C	Hexachlorobutadiene	40.000	39.725	0.7	100	0.00
35		Caprolactam	40.000	37.303	6.7	84	0.00
36	C	4-Chloro-3-methylphenol	40.000	37.939	5.2	88	0.00
37		2-Methylnaphthalene	40.000	37.810	5.5	93	0.00
38		1-Methylnaphthalene	40.000	37.519	6.2	91	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	87	-0.02
40		1,2,4,5-Tetrachlorobenzene	40.000	40.169	-0.4	93	0.00
41	P	Hexachlorocyclopentadiene	40.000	39.860	0.4	86	0.00
42	S	2,4,6-Tribromophenol	80.000	82.116	-2.6	94	0.00
43	C	2,4,6-Trichlorophenol	40.000	40.826	-2.1	91	0.00
44		2,4,5-Trichlorophenol	40.000	40.832	-2.1	92	0.01
45	S	2-Fluorobiphenyl	80.000	79.243	0.9	92	-0.01
46		1,1'-Biphenyl	40.000	38.417	4.0	90	0.00
47		2-Chloronaphthalene	40.000	38.930	2.7	90	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024703.D
Acq On : 20 May 2025 11:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 20 12:59:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	38.400	4.0	84	-0.01
49		Acenaphthylene	40.000	38.009	5.0	87	-0.01
50		Dimethylphthalate	40.000	37.061	7.3	85	0.00
51		2,6-Dinitrotoluene	40.000	38.712	3.2	87	-0.01
52	C	Acenaphthene	40.000	38.193	4.5	88	-0.01
53		3-Nitroaniline	40.000	38.296	4.3	81	-0.01
54	P	2,4-Dinitrophenol	40.000	35.323	11.7	81	0.00
55		Dibenzofuran	40.000	38.252	4.4	89	0.00
56	P	4-Nitrophenol	40.000	46.802	-17.0	109	0.03
57		2,4-Dinitrotoluene	40.000	38.874	2.8	85	-0.01
58		Fluorene	40.000	38.395	4.0	89	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	39.256	1.9	88	0.00
60		Diethylphthalate	40.000	37.342	6.6	87	-0.01
61		4-Chlorophenyl-phenylether	40.000	38.622	3.4	91	-0.01
62		4-Nitroaniline	40.000	37.633	5.9	79	0.00
63		Azobenzene	40.000	36.055	9.9	83	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	86	-0.02
65		4,6-Dinitro-2-methylphenol	40.000	39.652	0.9	86	0.00
66	c	n-Nitrosodiphenylamine	40.000	38.839	2.9	87	-0.01
67		4-Bromophenyl-phenylether	40.000	40.410	-1.0	91	0.00
68		Hexachlorobenzene	40.000	39.938	0.2	92	0.00
69		Atrazine	40.000	39.750	0.6	89	-0.01
70	C	Pentachlorophenol	40.000	39.278	1.8	83	0.00
71		Phenanthrene	40.000	38.323	4.2	88	0.00
72		Anthracene	40.000	39.076	2.3	88	0.00
73		Carbazole	40.000	38.152	4.6	83	-0.01
74		Di-n-butylphthalate	40.000	38.795	3.0	87	-0.01
75	C	Fluoranthene	40.000	37.992	5.0	85	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	84	0.00
77		Benzidine	40.000	39.203	2.0	80	0.00
78		Pyrene	40.000	39.077	2.3	85	0.00
79	S	Terphenyl-d14	80.000	80.045	-0.1	87	0.00
80		Butylbenzylphthalate	40.000	39.544	1.1	84	0.00
81		Benzo(a)anthracene	40.000	38.539	3.7	84	-0.01
82		3,3'-Dichlorobenzidine	40.000	40.800	-2.0	84	0.00
83		Chrysene	40.000	38.139	4.7	84	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	39.018	2.5	84	0.00
85	c	Di-n-octyl phthalate	40.000	40.266	-0.7	85	-0.01
86	I	Perylene-d12	20.000	20.000	0.0	85	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	38.903	2.7	85	0.00
88		Benzo(b)fluoranthene	40.000	38.496	3.8	85	0.00
89		Benzo(k)fluoranthene	40.000	38.409	4.0	85	0.00
90	C	Benzo(a)pyrene	40.000	38.890	2.8	86	0.00
91		Dibenzo(a,h)anthracene	40.000	38.874	2.8	84	0.00
92		Benzo(g,h,i)perylene	40.000	38.222	4.4	84	0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024703.D
Acq On : 20 May 2025 11:52
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 20 12:59:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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: NOBI03

Lab Code: CHEM Case No.: Q1984 SAS No.: Q1984 SDG No.: Q1984

Instrument ID: BNA_P Calibration Date/Time: 05/20/2025 22:04

Lab File ID: BP024718.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 10:41 15:26

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.169	1.092		-6.6	50.0
Phenol-d6	1.492	1.356		-9.1	50.0
Nitrobenzene-d5	0.396	0.354		-10.6	50.0
Naphthalene	1.036	0.990		-4.4	50.0
2-Methylnaphthalene	0.671	0.644		-4.0	50.0
2-Fluorobiphenyl	1.527	1.493		-2.2	50.0
Acenaphthylene	1.886	1.808		-4.1	50.0
Acenaphthene	1.084	1.038		-4.2	50.0
Fluorene	1.410	1.366		-3.1	50.0
2,4,6-Tribromophenol	0.339	0.363		7.1	50.0
Phenanthrene	1.112	1.068		-4.0	50.0
Anthracene	1.119	1.103		-1.4	50.0
Fluoranthene	1.300	1.253		-3.6	50.0
Pyrene	1.198	1.170		-2.3	50.0
Terphenyl-d14	1.166	1.166		0.0	50.0
Benzo(a)anthracene	1.256	1.204		-4.1	50.0
Chrysene	1.190	1.133		-4.8	50.0
Benzo(b)fluoranthene	1.145	1.086		-5.2	50.0
Benzo(k)fluoranthene	1.180	1.096		-7.1	50.0
Benzo(a)pyrene	1.099	1.047		-4.7	50.0
Indeno(1,2,3-cd)pyrene	1.460	1.407		-3.6	50.0
Dibenzo(a,h)anthracene	1.188	1.146		-3.5	50.0
Benzo(g,h,i)perylene	1.181	1.125		-4.7	50.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024718.D
Acq On : 20 May 2025 22:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: May 21 01:27:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	110566	20.000	ng	0.00
21) Naphthalene-d8	10.422	136	466131	20.000	ng	-0.01
39) Acenaphthene-d10	14.281	164	307619	20.000	ng	-0.02
64) Phenanthrene-d10	17.086	188	604437	20.000	ng	-0.01
76) Chrysene-d12	21.510	240	676763	20.000	ng	-0.01
86) Perylene-d12	24.798	264	806749	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	483118	74.735	ng	0.00
7) Phenol-d6	6.858	99	599583	72.673	ng	0.00
23) Nitrobenzene-d5	8.805	82	660558	71.601	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	446232	85.567	ng	0.00
45) 2-Fluorobiphenyl	12.893	172	1837081	78.240	ng	-0.01
79) Terphenyl-d14	19.810	244	3157658	80.005	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.223	88	103257	34.016	ng	98
3) Pyridine	3.617	79	230947	34.312	ng	93
4) n-Nitrosodimethylamine	3.528	42	104163	35.054	ng	93
6) Aniline	6.993	93	377517	35.441	ng	99
8) 2-Chlorophenol	7.234	128	280291	38.194	ng	97
9) Benzaldehyde	6.811	77	185370	34.708	ng	98
10) Phenol	6.881	94	304450	35.753	ng	97
11) bis(2-Chloroethyl)ether	7.087	93	239419	34.217	ng	97
12) 1,3-Dichlorobenzene	7.546	146	317636	37.621	ng	98
13) 1,4-Dichlorobenzene	7.687	146	321355	37.843	ng	100
14) 1,2-Dichlorobenzene	7.999	146	312018	37.708	ng	98
15) Benzyl Alcohol	7.905	79	230799	36.812	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.169	45	283120	33.787	ng	99
17) 2-Methylphenol	8.111	107	226637	37.108	ng	98
18) Hexachloroethane	8.716	117	118020	36.268	ng	97
19) n-Nitroso-di-n-propyla...	8.452	70	194970	34.163	ng	96
20) 3+4-Methylphenols	8.440	107	306454	36.887	ng	99
22) Acetophenone	8.469	105	425773	36.567	ng	99
24) Nitrobenzene	8.846	77	283935	34.974	ng	94
25) Isophorone	9.369	82	559210	34.945	ng	96
26) 2-Nitrophenol	9.546	139	165233	41.534	ng	98
27) 2,4-Dimethylphenol	9.622	122	270045	38.501	ng	99
28) bis(2-Chloroethoxy)met...	9.840	93	327325	34.237	ng	97
29) 2,4-Dichlorophenol	10.099	162	272454	40.085	ng	96
30) 1,2,4-Trichlorobenzene	10.287	180	299985	39.166	ng	97
31) Naphthalene	10.469	128	922608	38.195	ng	100
32) Benzoic acid	9.787	122	163060	35.667	ng	93
33) 4-Chloroaniline	10.593	127	381633	39.153	ng	98
34) Hexachlorobutadiene	10.752	225	198098	39.924	ng	98
35) Caprolactam	11.393	113	96266	39.146	ng	94
36) 4-Chloro-3-methylphenol	11.734	107	321821	38.826	ng	98
37) 2-Methylnaphthalene	12.081	142	600646	38.402	ng	99
38) 1-Methylnaphthalene	12.304	142	642025	38.364	ng	99
40) 1,2,4,5-Tetrachloroben...	12.457	216	352005	39.405	ng	99
41) Hexachlorocyclopentadiene	12.434	237	217156	40.091	ng	97
43) 2,4,6-Trichlorophenol	12.716	196	245643	42.455	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024718.D
Acq On : 20 May 2025 22:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: May 21 01:27:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

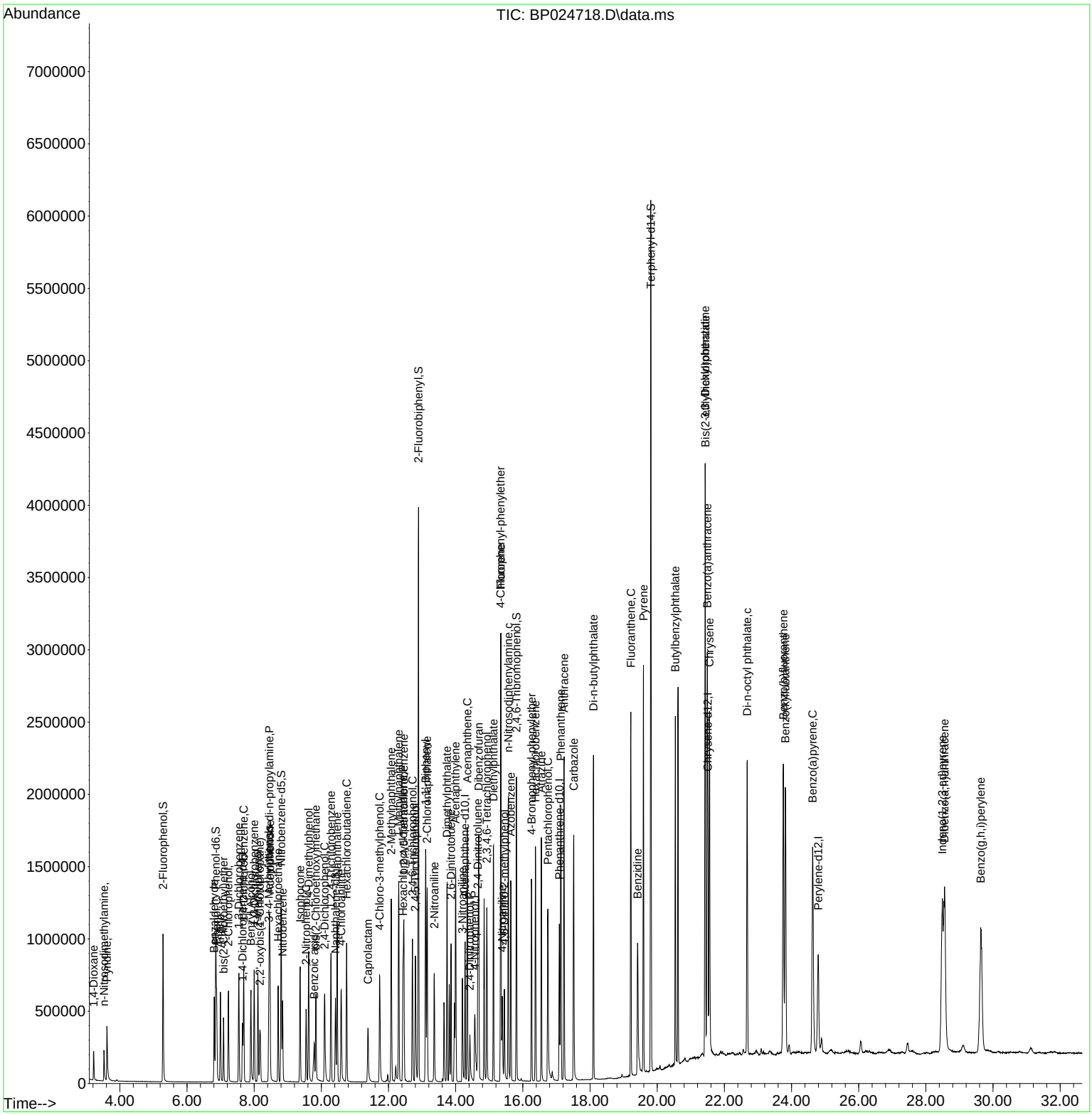
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	270471	41.995	ng		97
46) 1,1'-Biphenyl	13.104	154	887407	39.030	ng		99
47) 2-Chloronaphthalene	13.151	162	689395	39.767	ng		99
48) 2-Nitroaniline	13.363	65	201432	39.247	ng		97
49) Acenaphthylene	13.998	152	1112406	38.344	ng		100
50) Dimethylphthalate	13.745	163	886318	37.801	ng		100
51) 2,6-Dinitrotoluene	13.863	165	189104	38.189	ng		98
52) Acenaphthene	14.345	154	638458	38.281	ng		100
53) 3-Nitroaniline	14.198	138	193051	38.181	ng		99
54) 2,4-Dinitrophenol	14.422	184	94621	34.279	ng		97
55) Dibenzofuran	14.687	168	1023680	38.480	ng		100
56) 4-Nitrophenol	14.569	139	208380	49.318	ng		94
57) 2,4-Dinitrotoluene	14.663	165	280073	40.118	ng		98
58) Fluorene	15.345	166	840603	38.752	ng		99
59) 2,3,4,6-Tetrachlorophenol	14.928	232	244897	40.990	ng		95
60) Diethylphthalate	15.128	149	894699	37.754	ng		98
61) 4-Chlorophenyl-phenyle...	15.340	204	422424	39.049	ng		100
62) 4-Nitroaniline	15.387	138	192740	39.479	ng		98
63) Azobenzene	15.640	77	726922	35.857	ng		96
65) 4,6-Dinitro-2-methylph...	15.451	198	151755	38.869	ng		98
66) n-Nitrosodiphenylamine	15.569	169	734714	39.573	ng		98
67) 4-Bromophenyl-phenylether	16.257	248	289391	40.631	ng		98
68) Hexachlorobenzene	16.375	284	367323	40.587	ng		98
69) Atrazine	16.551	200	273779	40.239	ng		99
70) Pentachlorophenol	16.745	266	305048	60.045	ng		98
71) Phenanthrene	17.134	178	1290635	38.410	ng		100
72) Anthracene	17.228	178	1333010	39.430	ng		100
73) Carbazole	17.516	167	1194415	39.035	ng		100
74) Di-n-butylphthalate	18.104	149	1558306	39.599	ng		100
75) Fluoranthene	19.216	202	1514175	38.550	ng		99
77) Benzidine	19.416	184	755105	40.966	ng		99
78) Pyrene	19.592	202	1583011	39.038	ng		99
80) Butylbenzylphthalate	20.539	149	730821	40.524	ng		94
81) Benzo(a)anthracene	21.492	228	1629224	38.339	ng		100
82) 3,3'-Dichlorobenzidine	21.427	252	669047	42.389	ng		100
83) Chrysene	21.557	228	1533150	38.059	ng		100
84) Bis(2-ethylhexyl)phtha...	21.433	149	1057445	39.893	ng		99
85) Di-n-octyl phthalate	22.680	149	1826217	42.130	ng		99
87) Indeno(1,2,3-cd)pyrene	28.492	276	2269964	38.541	ng	#	92
88) Benzo(b)fluoranthene	23.757	252	1752739	37.957	ng		99
89) Benzo(k)fluoranthene	23.816	252	1768100	37.159	ng		99
90) Benzo(a)pyrene	24.627	252	1689563	38.097	ng		99
91) Dibenzo(a,h)anthracene	28.556	278	1849039	38.590	ng		99
92) Benzo(g,h,i)perylene	29.633	276	1814930	38.090	ng		97

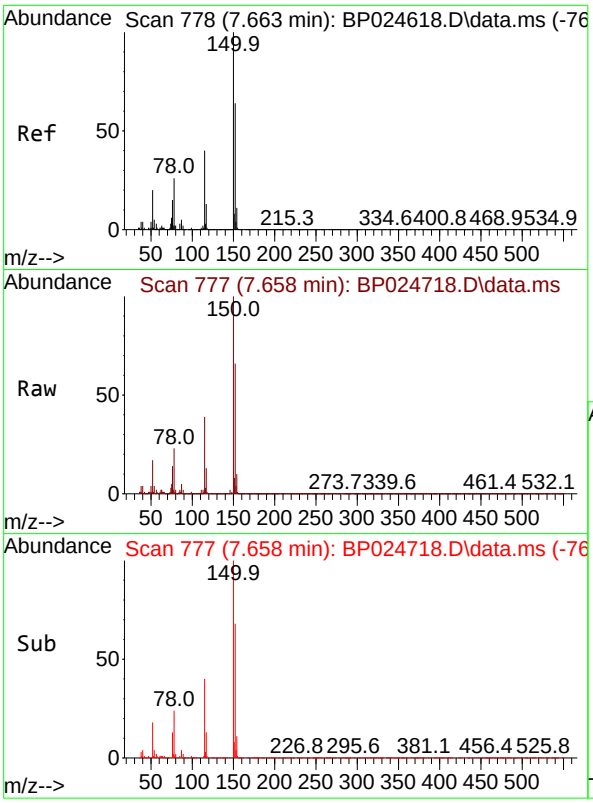
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024718.D
Acq On : 20 May 2025 22:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: May 21 01:27:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



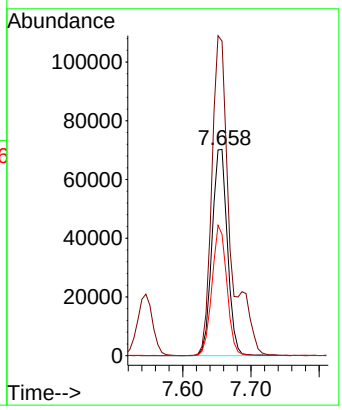


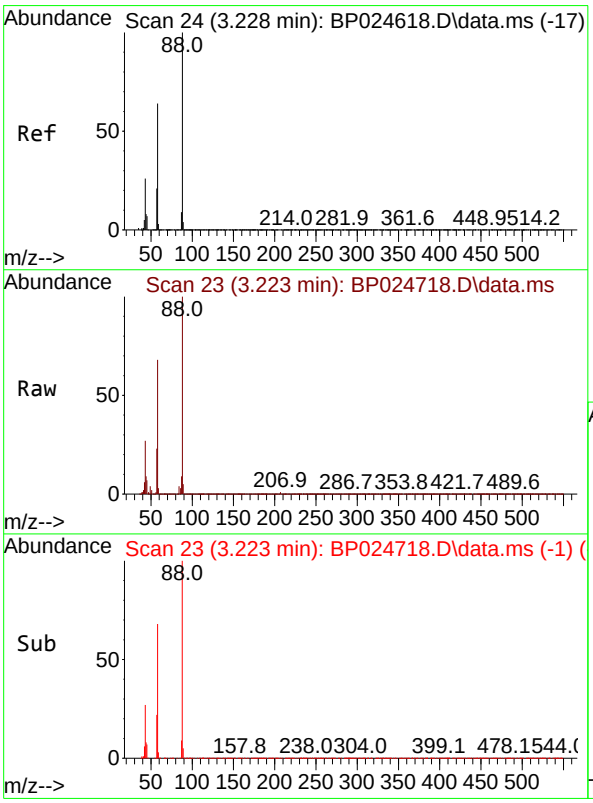
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.658 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 110566

Ion	Ratio	Lower	Upper
152	100		
150	152.5	125.9	188.9
115	58.8	50.1	75.1

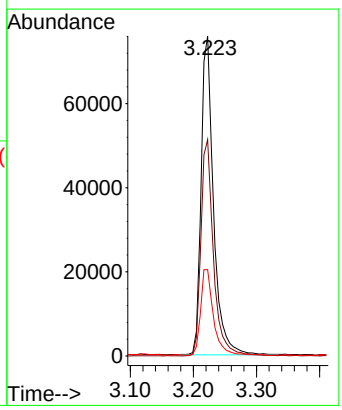


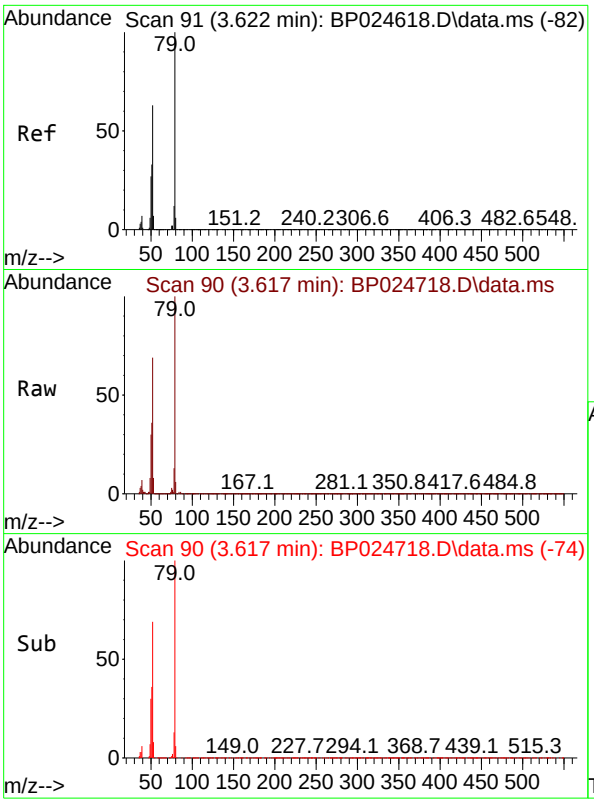


#2
1,4-Dioxane
Concen: 34.016 ng
RT: 3.223 min Scan# 23
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion: 88 Resp: 103257

Ion	Ratio	Lower	Upper
88	100		
58	68.7	54.0	81.0
43	28.0	21.4	32.0



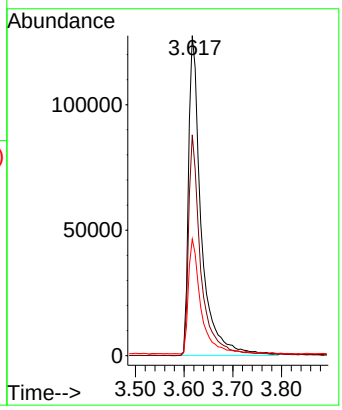


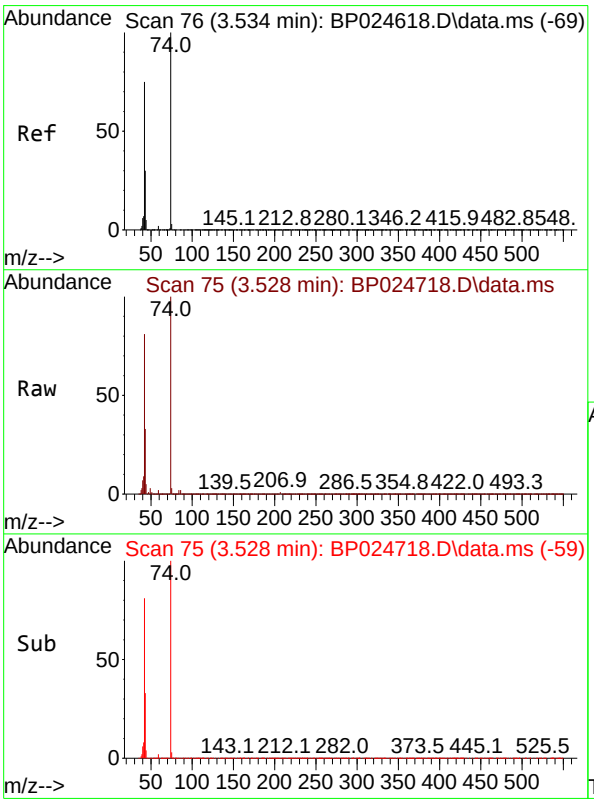
#3
Pyridine
Concen: 34.312 ng
RT: 3.617 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 230947

Ion	Ratio	Lower	Upper
79	100		
52	69.0	50.2	75.2
51	36.4	26.8	40.2

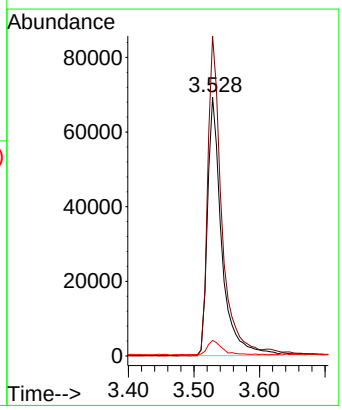


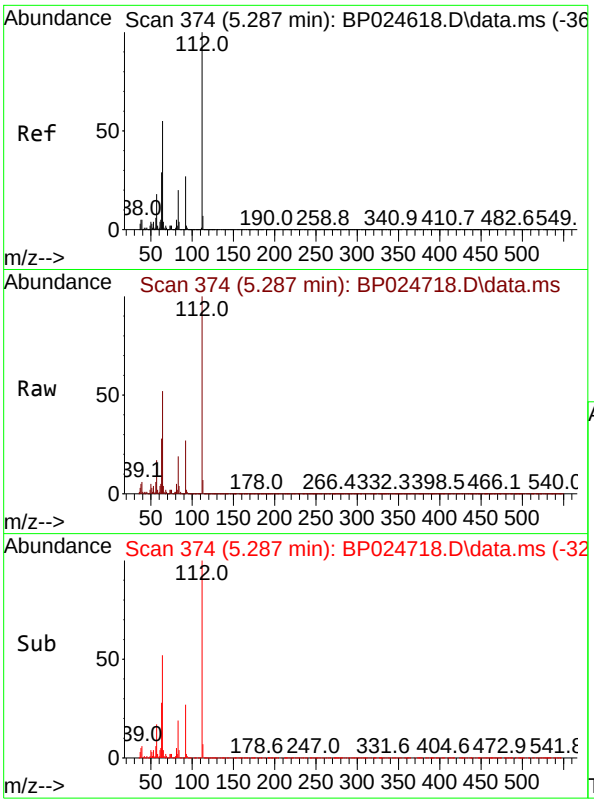


#4
n-Nitrosodimethylamine
Concen: 35.054 ng
RT: 3.528 min Scan# 75
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion: 42 Resp: 104163

Ion	Ratio	Lower	Upper
42	100		
74	123.7	106.2	159.2
44	6.0	5.4	8.2



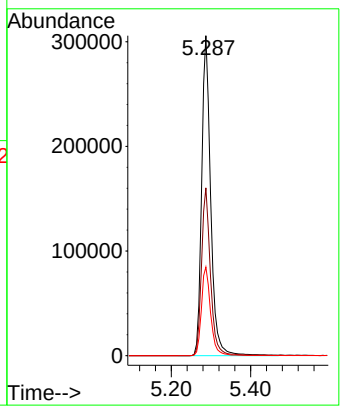


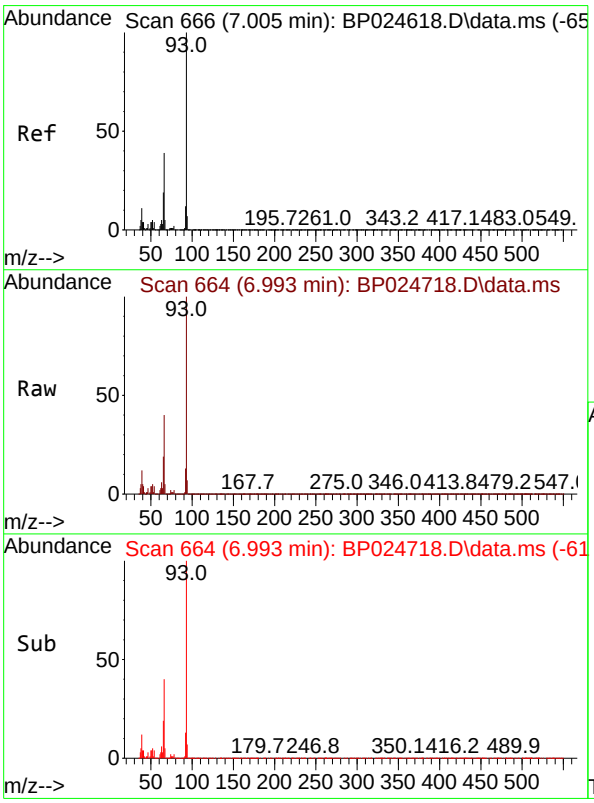
#5
2-Fluorophenol
Concen: 74.735 ng
RT: 5.287 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:112 Resp: 483118

Ion	Ratio	Lower	Upper
112	100		
64	52.4	44.1	66.1
63	27.7	23.5	35.3

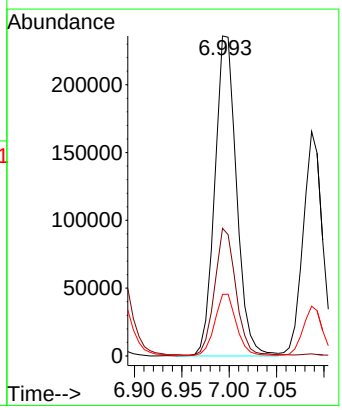


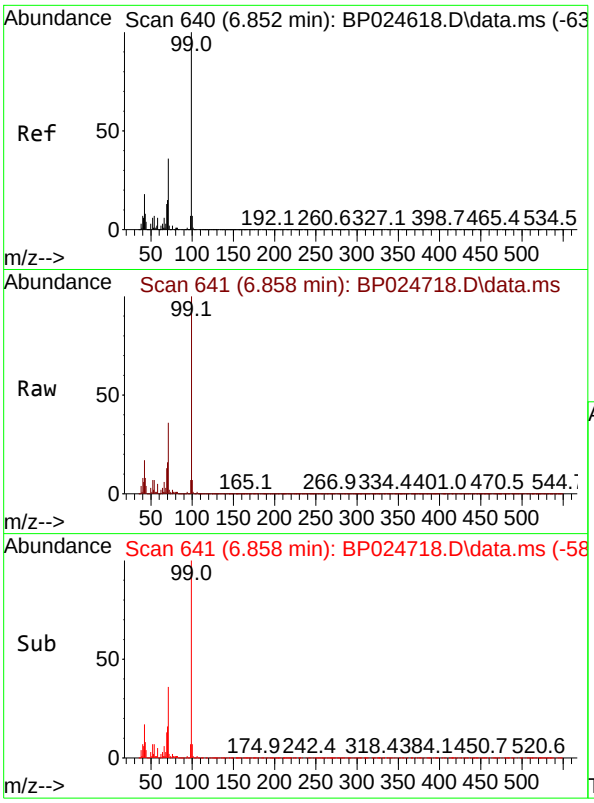


#6
Aniline
Concen: 35.441 ng
RT: 6.993 min Scan# 664
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion: 93 Resp: 377517

Ion	Ratio	Lower	Upper
93	100		
66	39.9	31.0	46.6
65	19.2	15.5	23.3



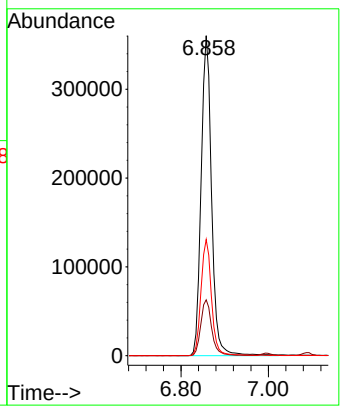


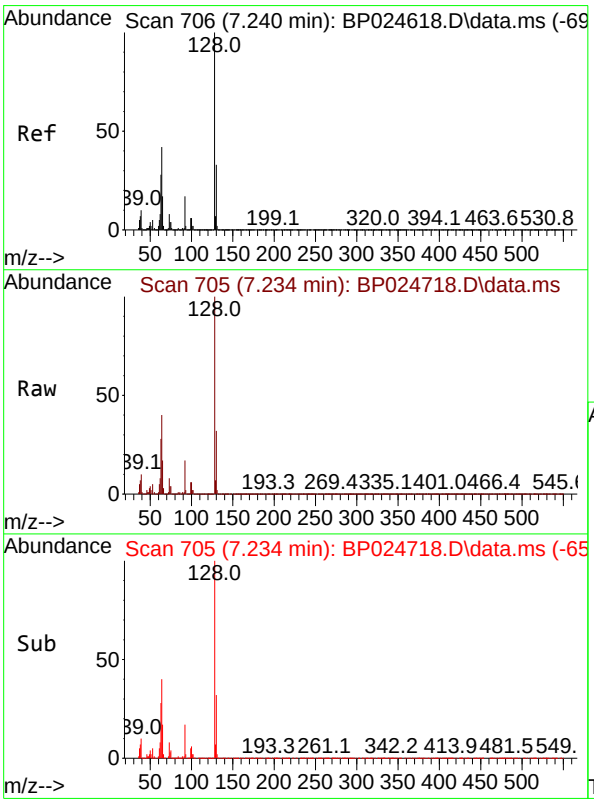
#7
Phenol-d6
Concen: 72.673 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 99 Resp: 599583

Ion	Ratio	Lower	Upper
99	100		
42	17.4	14.4	21.6
71	36.3	29.2	43.8

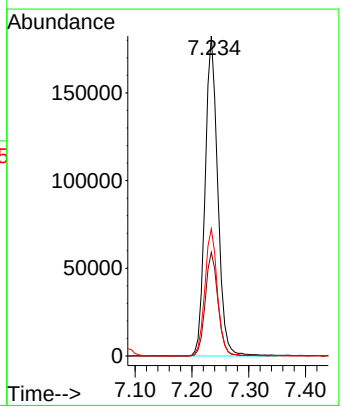


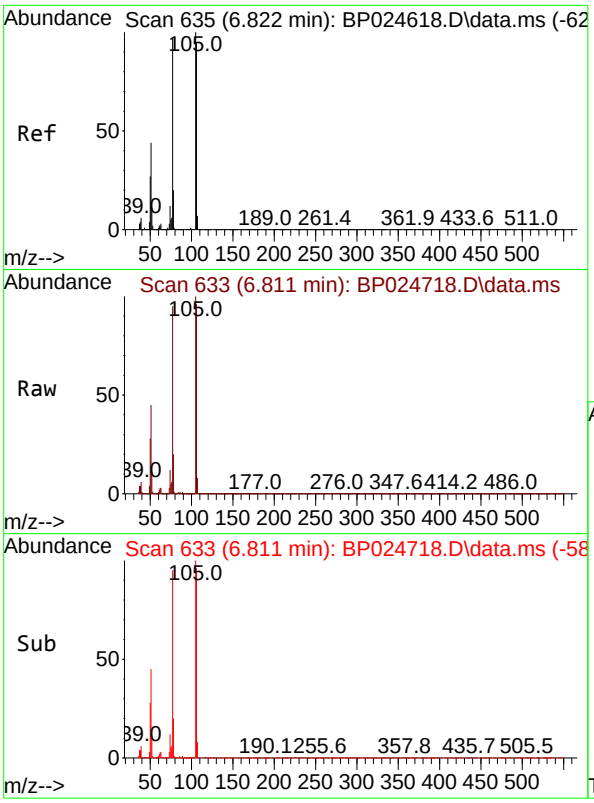


#8
2-Chlorophenol
Concen: 38.194 ng
RT: 7.234 min Scan# 705
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:128 Resp: 280291

Ion	Ratio	Lower	Upper
128	100		
130	32.4	13.0	53.0
64	39.8	22.3	62.3



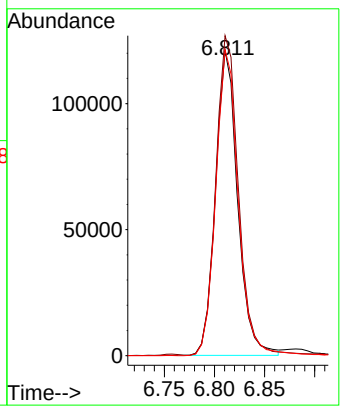


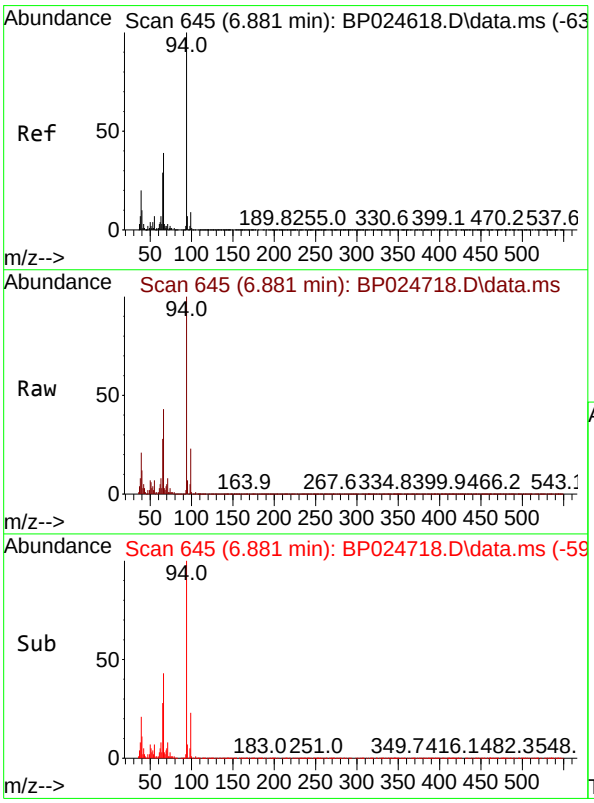
#9
Benzaldehyde
Concen: 34.708 ng
RT: 6.811 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 185370

Ion	Ratio	Lower	Upper
77	100		
105	104.9	83.3	123.3
106	100.3	78.0	118.0

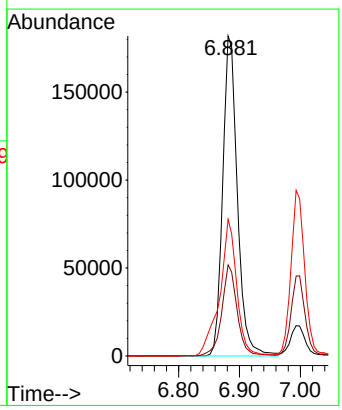


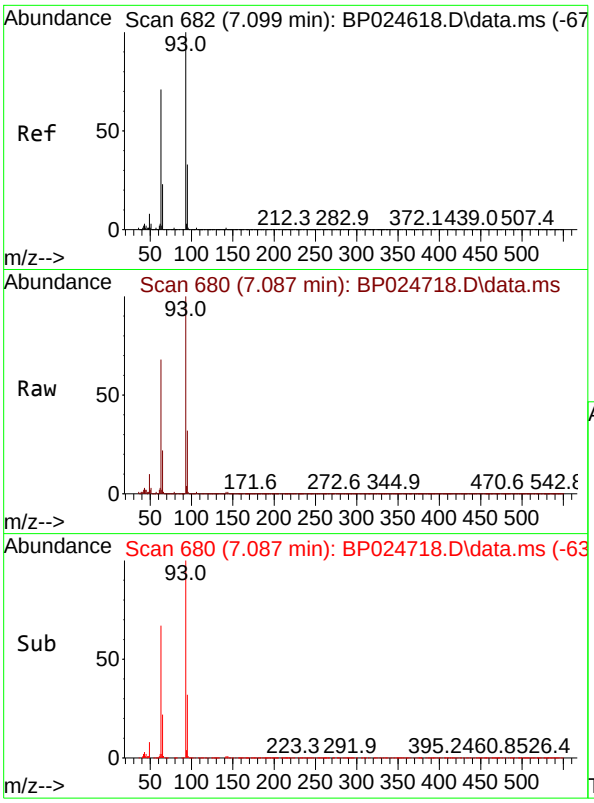


#10
Phenol
Concen: 35.753 ng
RT: 6.881 min Scan# 645
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion: 94 Resp: 304450

Ion	Ratio	Lower	Upper
94	100		
65	28.4	8.7	48.7
66	42.6	19.4	59.4



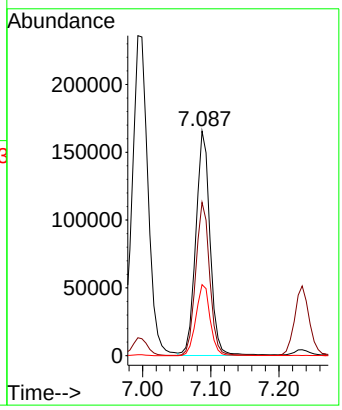


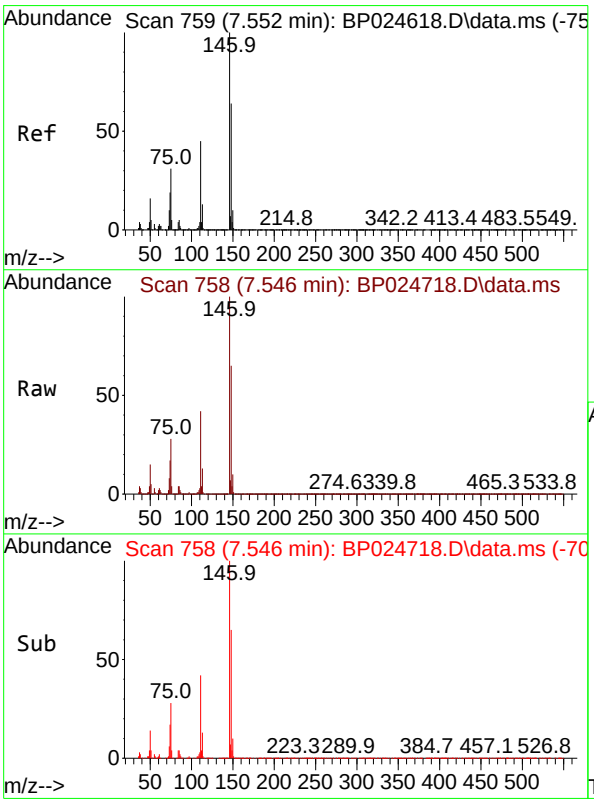
#11
bis(2-Chloroethyl)ether
Concen: 34.217 ng
RT: 7.087 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 93 Resp: 239419

Ion	Ratio	Lower	Upper
93	100		
63	68.3	50.6	90.6
95	31.6	12.9	52.9

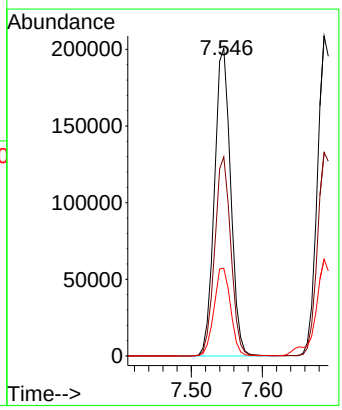


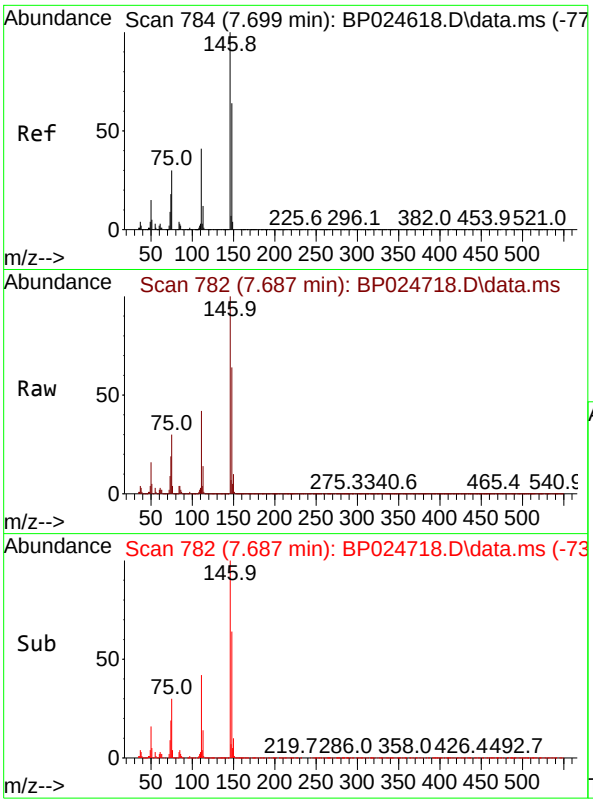


#12
1,3-Dichlorobenzene
Concen: 37.621 ng
RT: 7.546 min Scan# 758
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:146 Resp: 317636

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.4	77.2
75	28.5	25.2	37.8



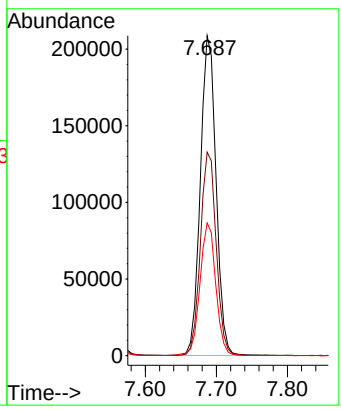


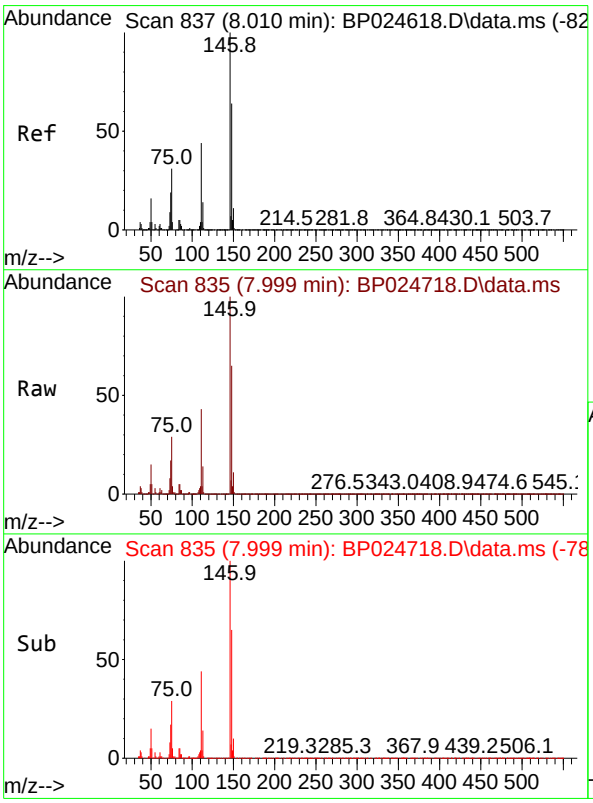
#13
1,4-Dichlorobenzene
Concen: 37.843 ng
RT: 7.687 min Scan# 7
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:146 Resp: 321355

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.0	76.6
111	41.5	33.0	49.6

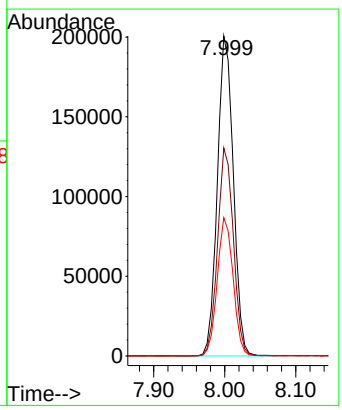


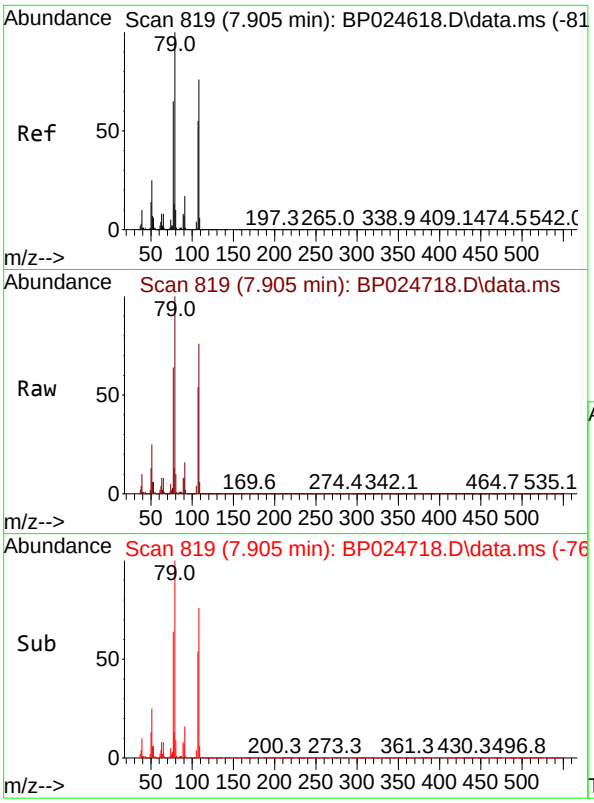


#14
1,2-Dichlorobenzene
Concen: 37.708 ng
RT: 7.999 min Scan# 835
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:146 Resp: 312018

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.0	76.4
111	43.2	35.2	52.8



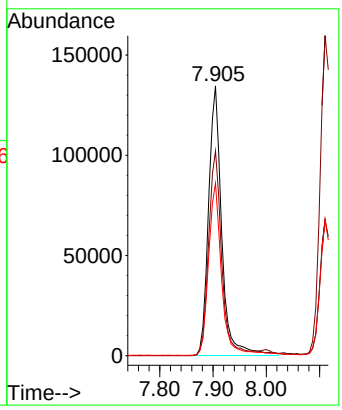


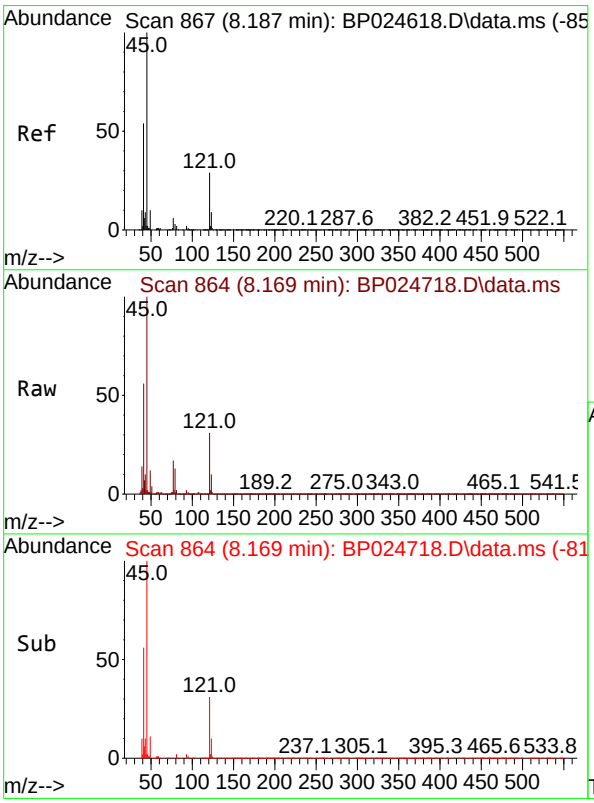
#15
Benzyl Alcohol
Concen: 36.812 ng
RT: 7.905 min Scan# 81
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 230799

Ion	Ratio	Lower	Upper
79	100		
108	75.9	60.8	91.2
77	63.9	51.9	77.9

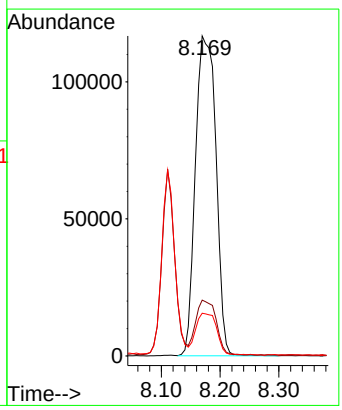


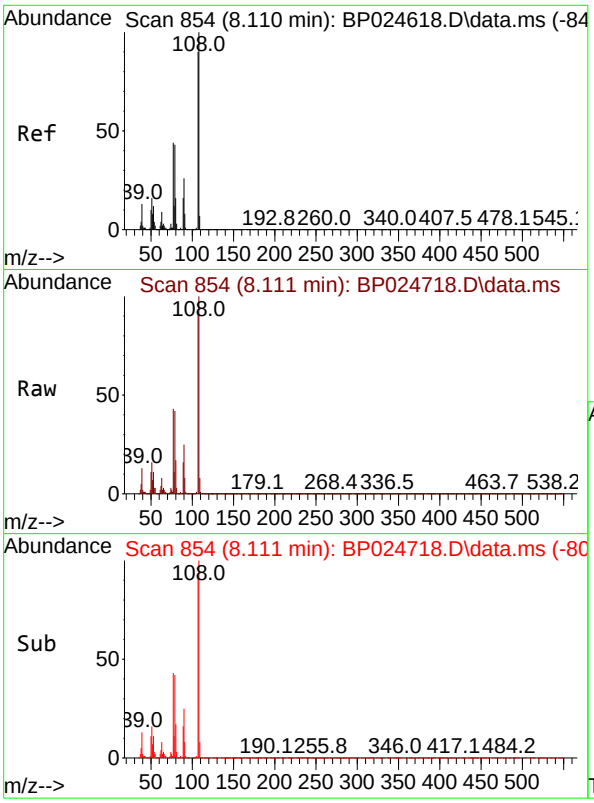


#16
2,2'-oxybis(1-Chloropropane)
Concen: 33.787 ng
RT: 8.169 min Scan# 864
Delta R.T. -0.018 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion: 45 Resp: 283120

Ion	Ratio	Lower	Upper
45	100		
77	17.5	0.0	37.7
79	13.4	0.0	34.0



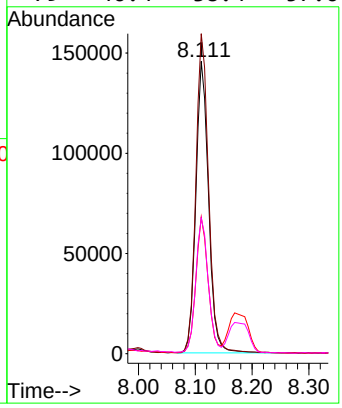


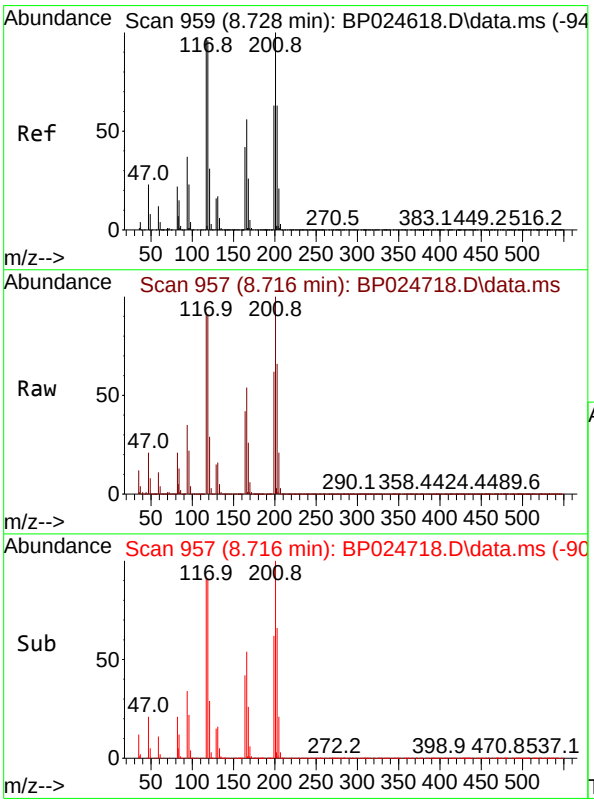
#17
2-Methylphenol
Concen: 37.108 ng
RT: 8.111 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:107 Resp: 226637

Ion	Ratio	Lower	Upper
107	100		
108	109.5	88.9	133.3
77	46.8	39.0	58.6
79	46.4	38.4	57.6

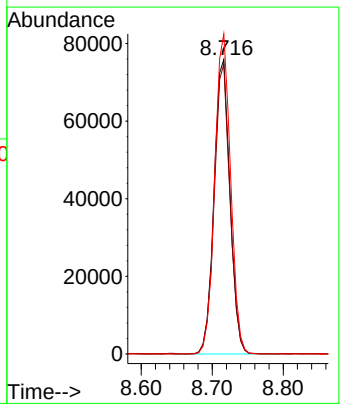


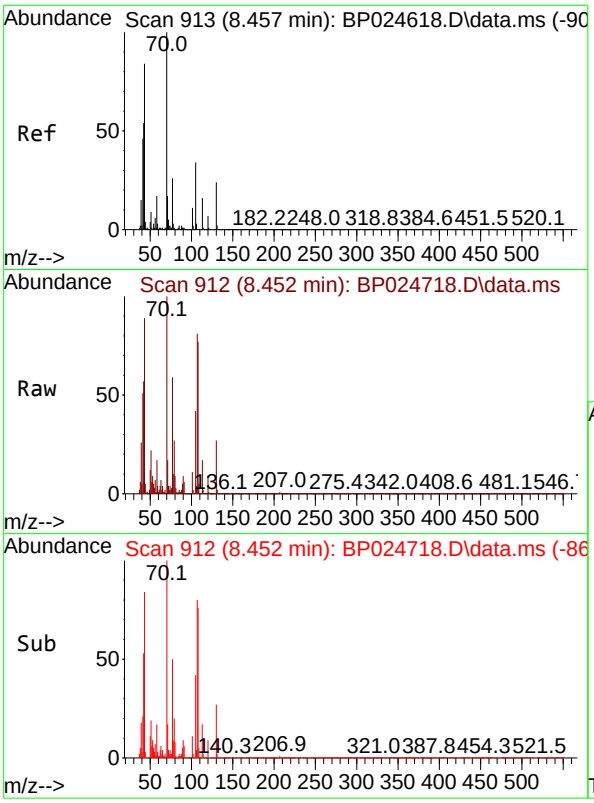


#18
Hexachloroethane
Concen: 36.268 ng
RT: 8.716 min Scan# 957
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:117 Resp: 118020

Ion	Ratio	Lower	Upper
117	100		
119	98.4	79.4	119.0
201	108.7	82.7	124.1



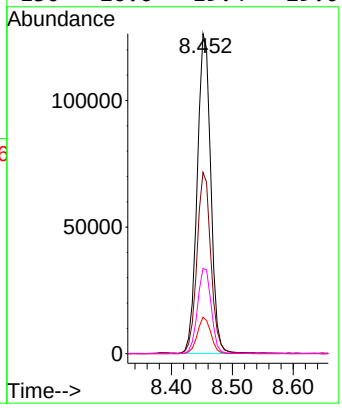


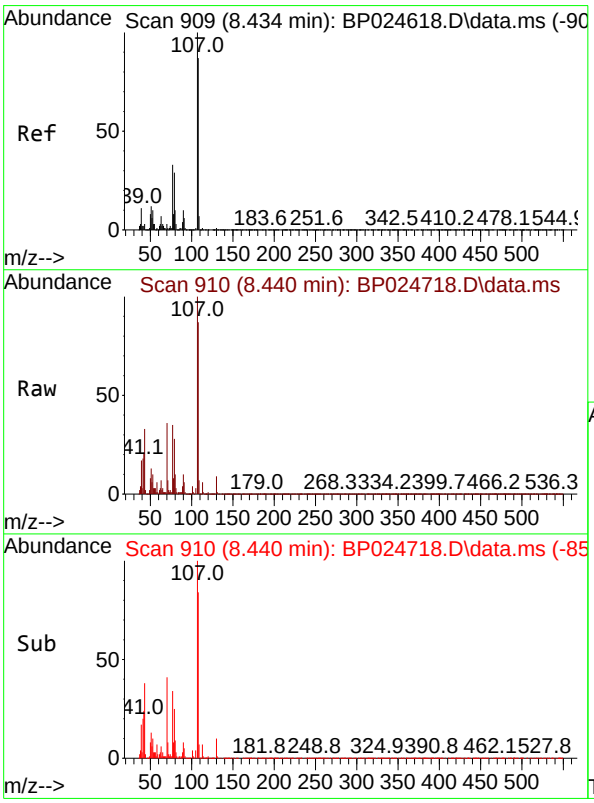
#19
n-Nitroso-di-n-propylamine
Concen: 34.163 ng
RT: 8.452 min Scan# 91
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 70 Resp: 194970

Ion	Ratio	Lower	Upper
70	100		
42	56.7	43.0	64.6
101	11.4	8.7	13.1
130	26.6	19.4	29.0

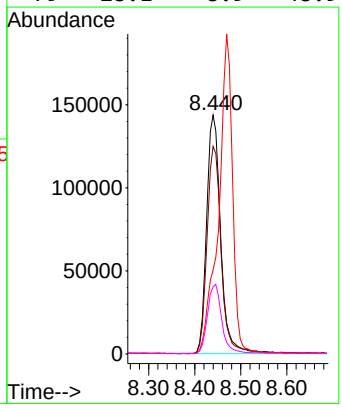


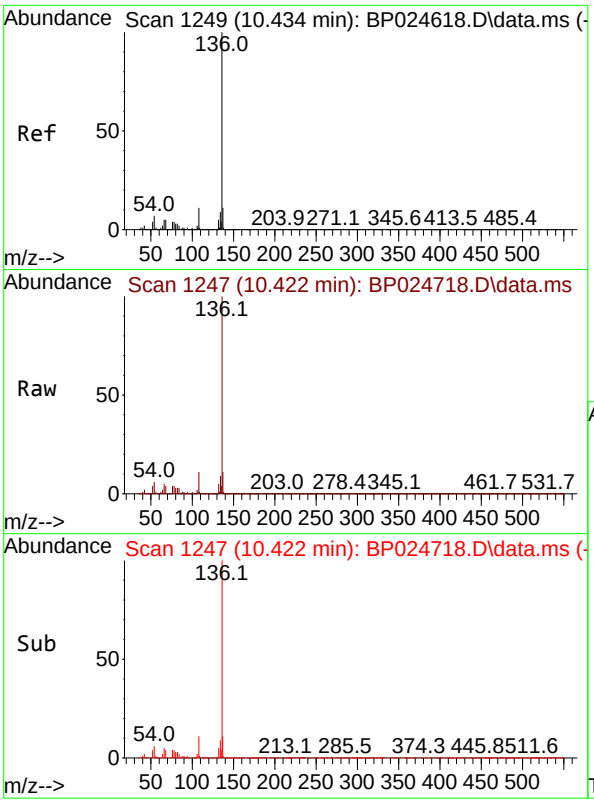


#20
3+4-Methylphenols
Concen: 36.887 ng
RT: 8.440 min Scan# 910
Delta R.T. 0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:107 Resp: 306454

Ion	Ratio	Lower	Upper
107	100		
108	86.8	66.7	106.7
77	35.2	13.1	53.1
79	28.1	8.9	48.9



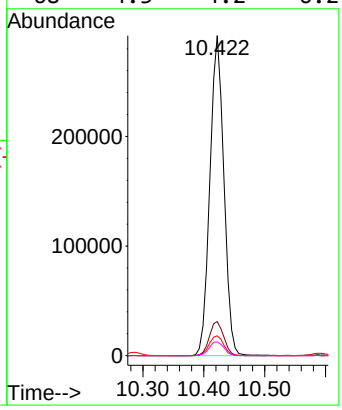


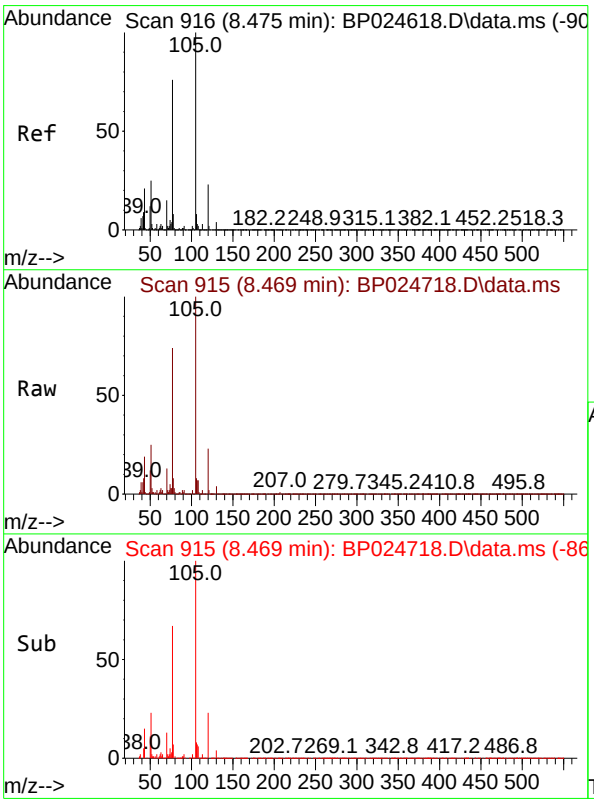
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:136 Resp: 466131

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	6.2	5.5	8.3
68	4.3	4.2	6.2

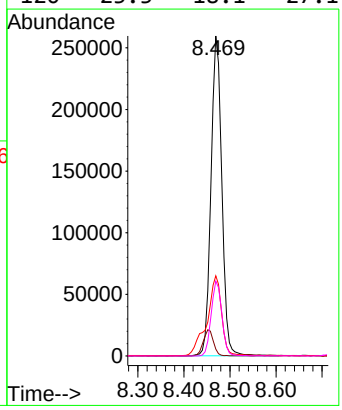


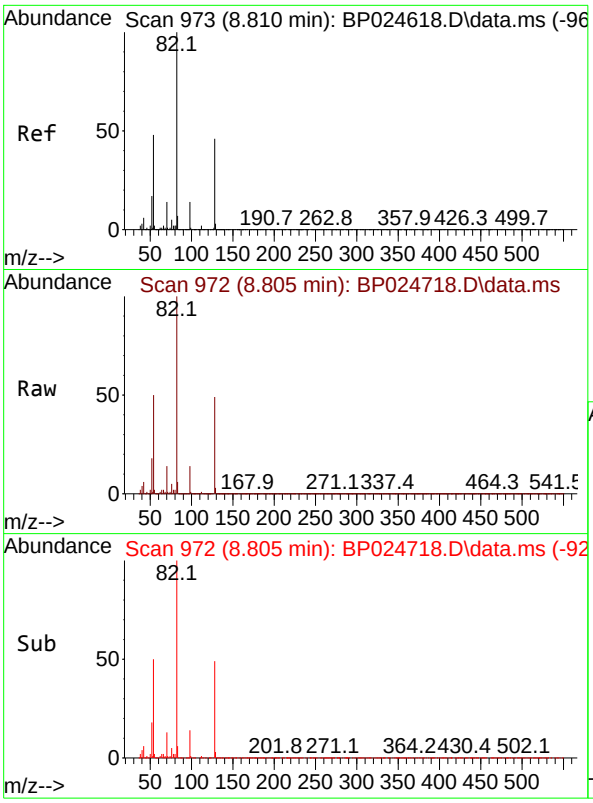


#22
Acetophenone
Concen: 36.567 ng
RT: 8.469 min Scan# 915
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:105 Resp: 425773

Ion	Ratio	Lower	Upper
105	100		
71	2.1	2.0	3.0
51	25.0	20.4	30.6
120	23.3	18.1	27.1



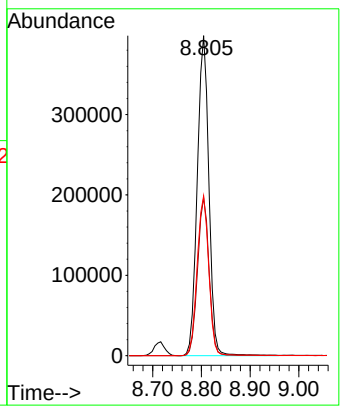


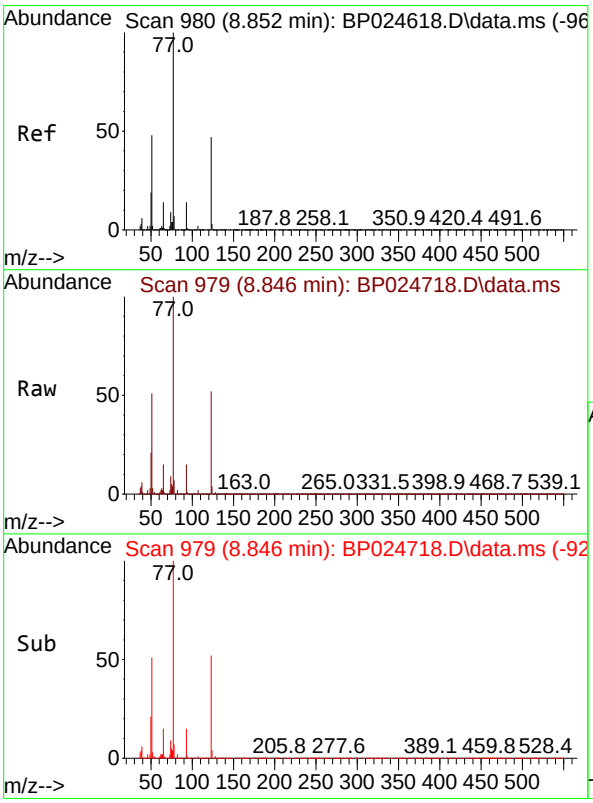
#23
Nitrobenzene-d5
Concen: 71.601 ng
RT: 8.805 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 660558

Ion	Ratio	Lower	Upper
82	100		
128	49.3	37.0	55.4
54	49.9	38.7	58.1

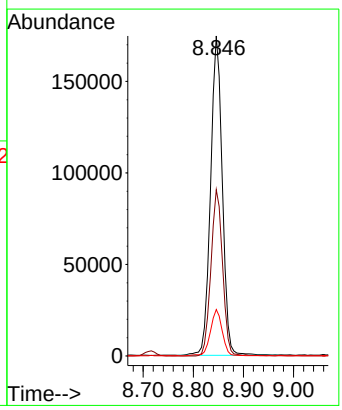


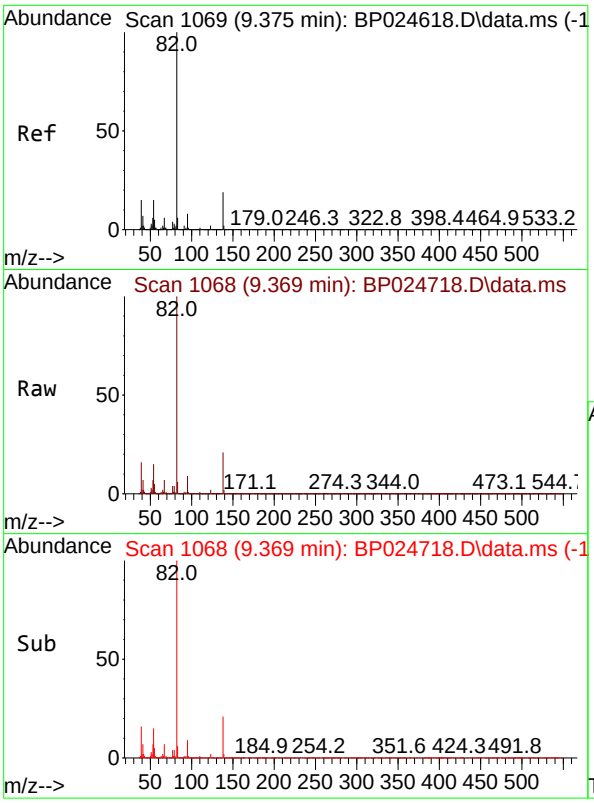


#24
Nitrobenzene
Concen: 34.974 ng
RT: 8.846 min Scan# 979
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion: 77 Resp: 283935

Ion	Ratio	Lower	Upper
77	100		
123	52.0	37.4	56.0
65	14.5	11.3	16.9



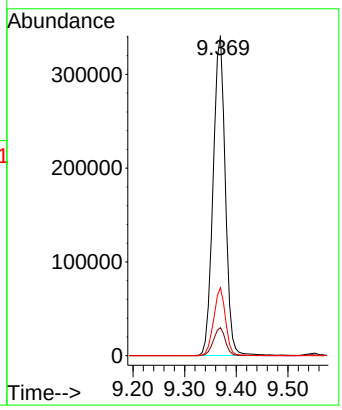


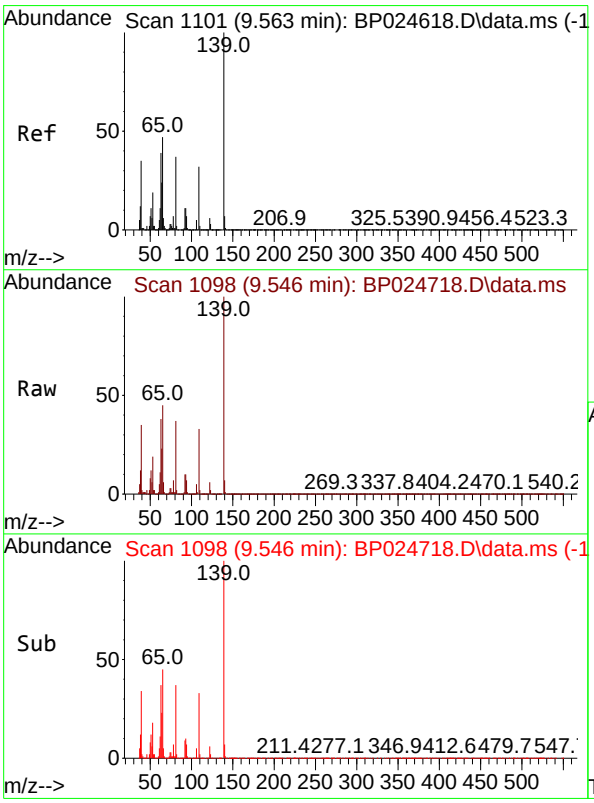
#25
Isophorone
Concen: 34.945 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 559210

Ion	Ratio	Lower	Upper
82	100		
95	8.8	6.3	9.5
138	21.2	15.3	22.9

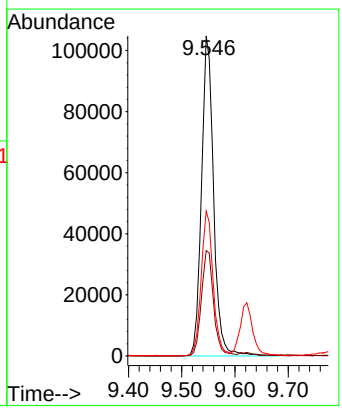


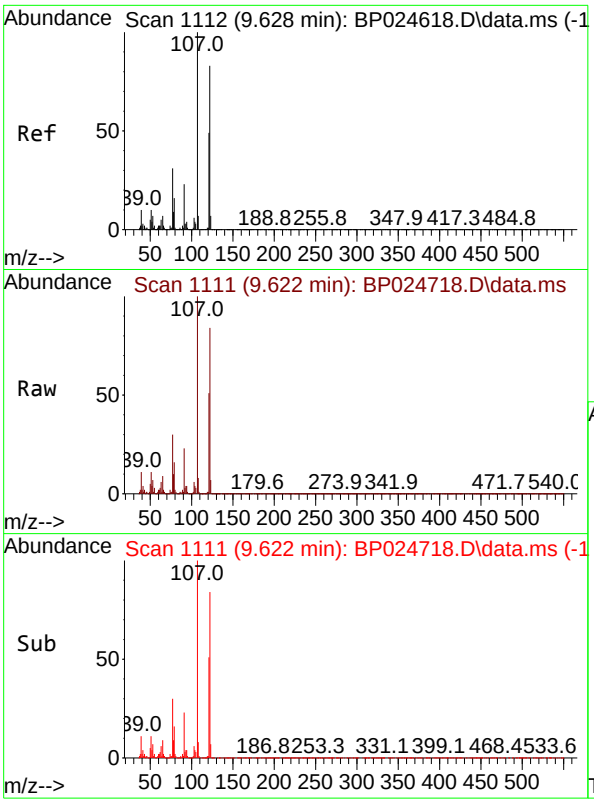


#26
2-Nitrophenol
Concen: 41.534 ng
RT: 9.546 min Scan# 1098
Delta R.T. -0.018 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:139 Resp: 165233

Ion	Ratio	Lower	Upper
139	100		
109	32.9	25.9	38.9
65	45.3	37.9	56.9



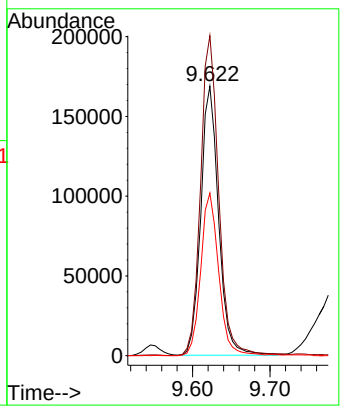


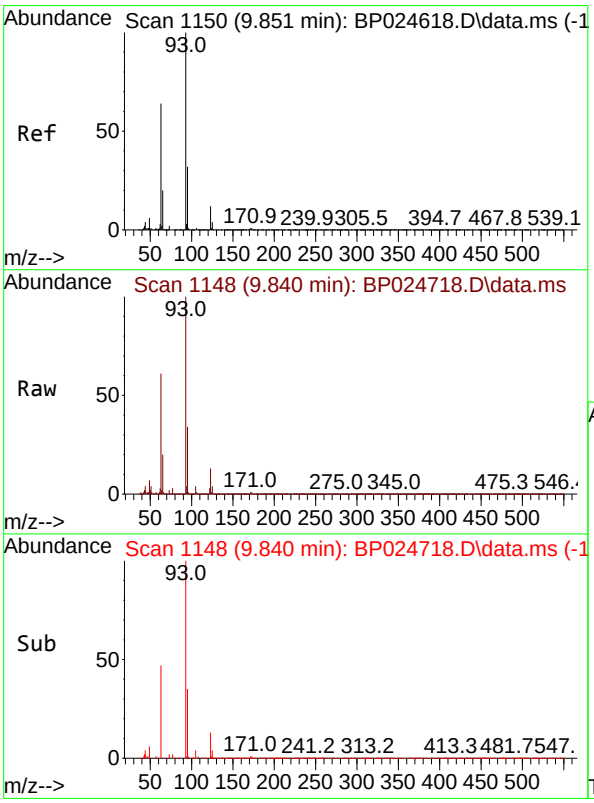
#27
2,4-Dimethylphenol
Concen: 38.501 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:122 Resp: 270045

Ion	Ratio	Lower	Upper
122	100		
107	118.8	96.2	144.2
121	60.4	47.6	71.4

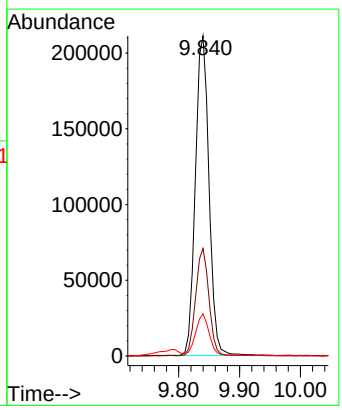


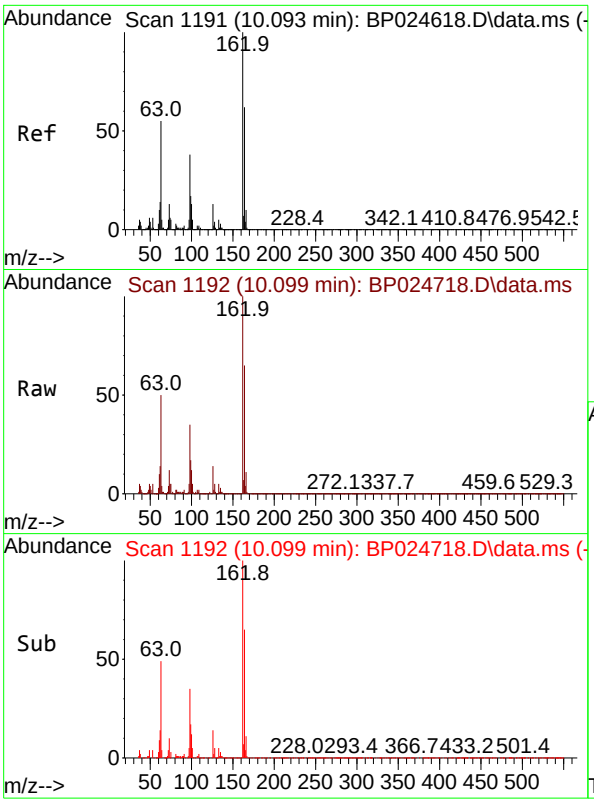


#28
bis(2-Chloroethoxy)methane
Concen: 34.237 ng
RT: 9.840 min Scan# 1148
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion: 93 Resp: 327325

Ion	Ratio	Lower	Upper
93	100		
95	33.6	25.5	38.3
123	13.2	9.7	14.5



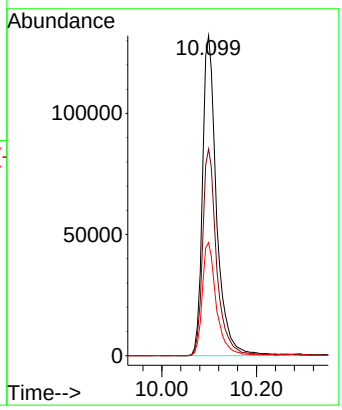


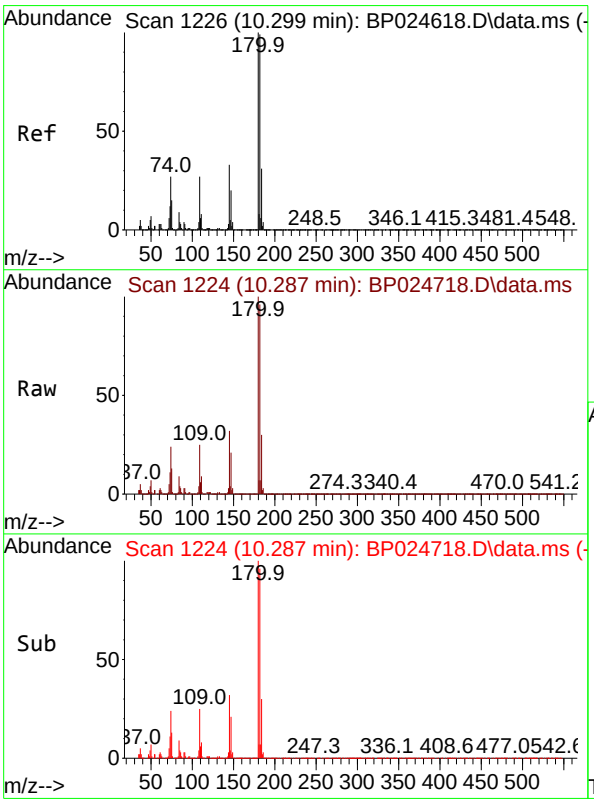
#29
2,4-Dichlorophenol
Concen: 40.085 ng
RT: 10.099 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 272454

Ion	Ratio	Lower	Upper
162	100		
164	64.6	42.3	82.3
98	35.4	18.4	58.4

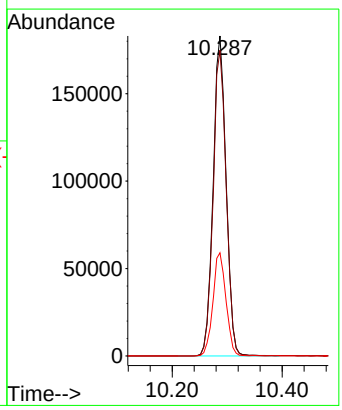


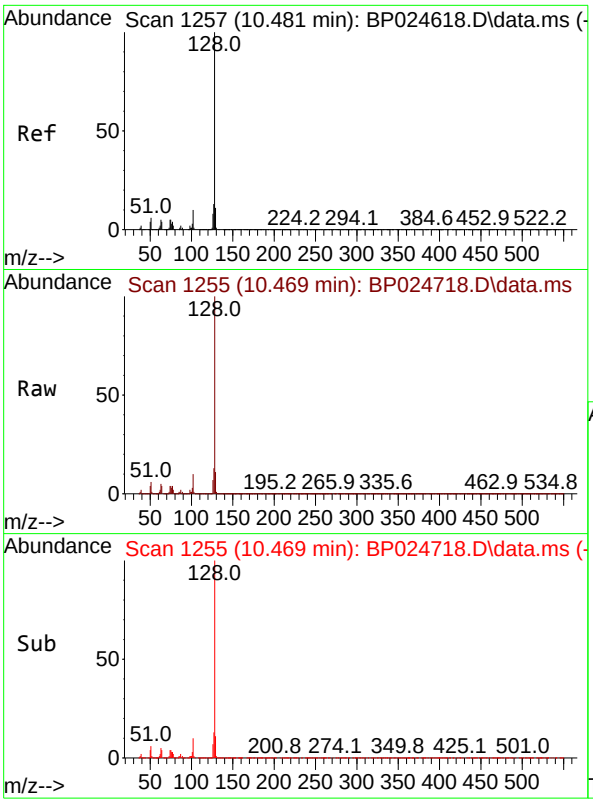


#30
1,2,4-Trichlorobenzene
Concen: 39.166 ng
RT: 10.287 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:180 Resp: 299985

Ion	Ratio	Lower	Upper
180	100		
182	95.5	79.0	118.4
145	32.2	26.6	39.8



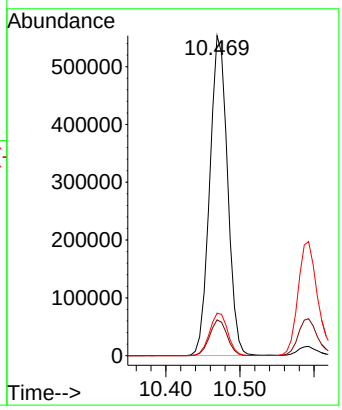


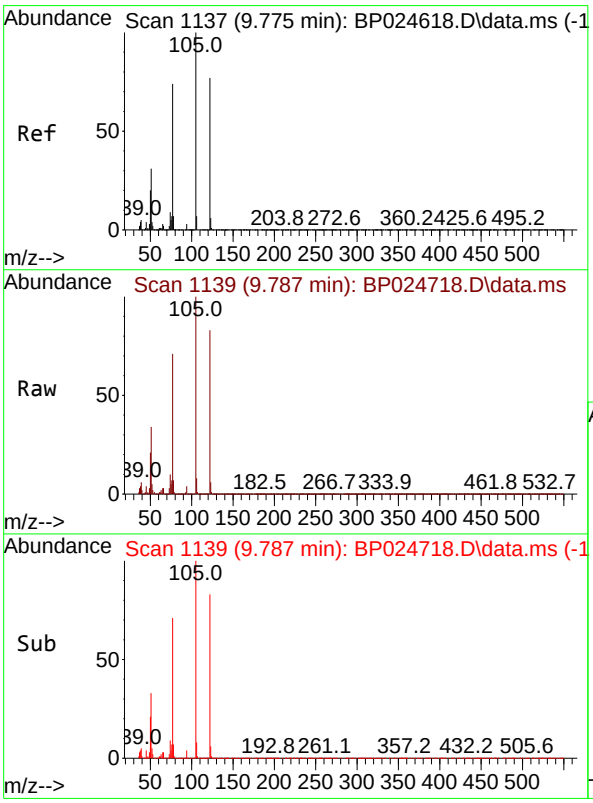
#31
Naphthalene
Concen: 38.195 ng
RT: 10.469 min Scan# 11
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:128 Resp: 922608

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	13.3	10.7	16.1

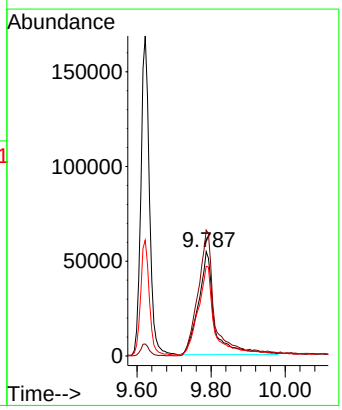


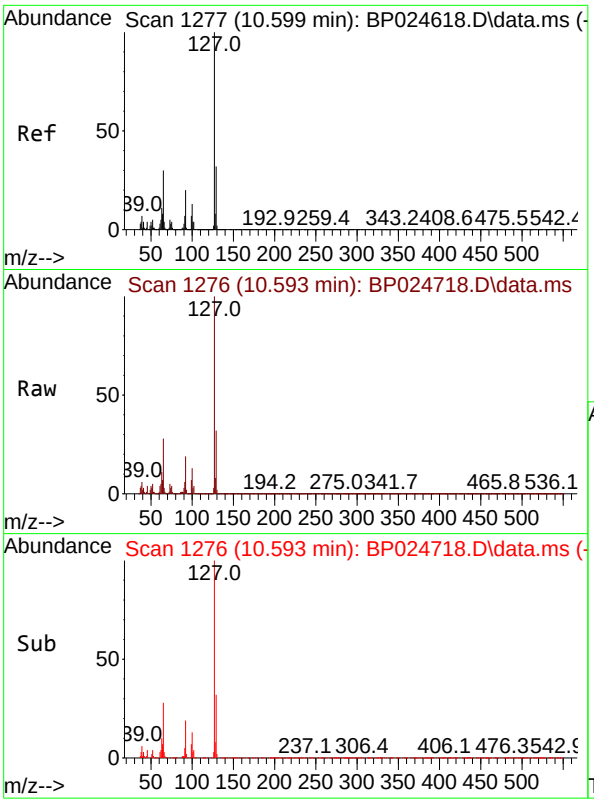


#32
Benzoic acid
Concen: 35.667 ng
RT: 9.787 min Scan# 1139
Delta R.T. 0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:122 Resp: 163060

Ion	Ratio	Lower	Upper
122	100		
105	120.7	106.9	146.9
77	86.1	75.1	115.1



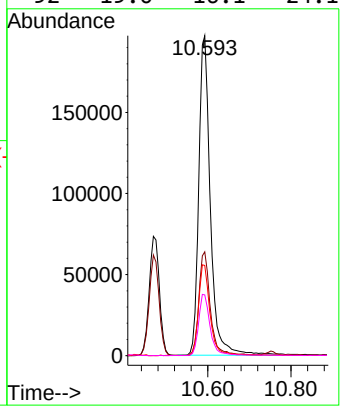


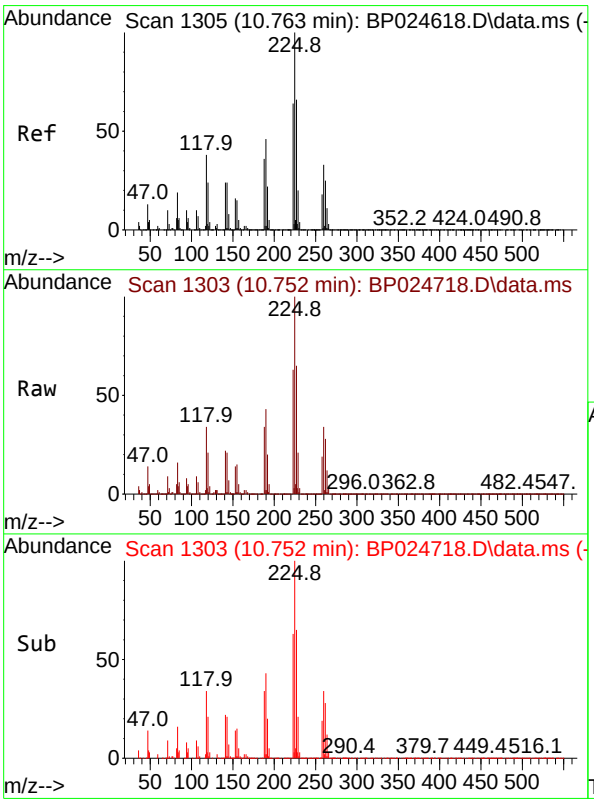
#33
4-Chloroaniline
Concen: 39.153 ng
RT: 10.593 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:127 Resp: 381633

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.8	38.6
65	28.2	23.9	35.9
92	19.0	16.1	24.1

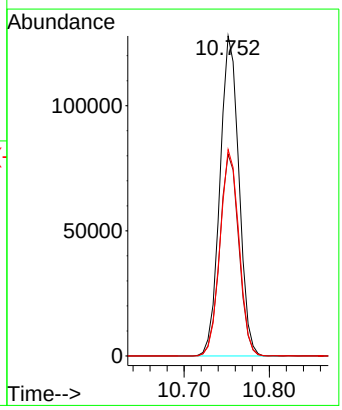


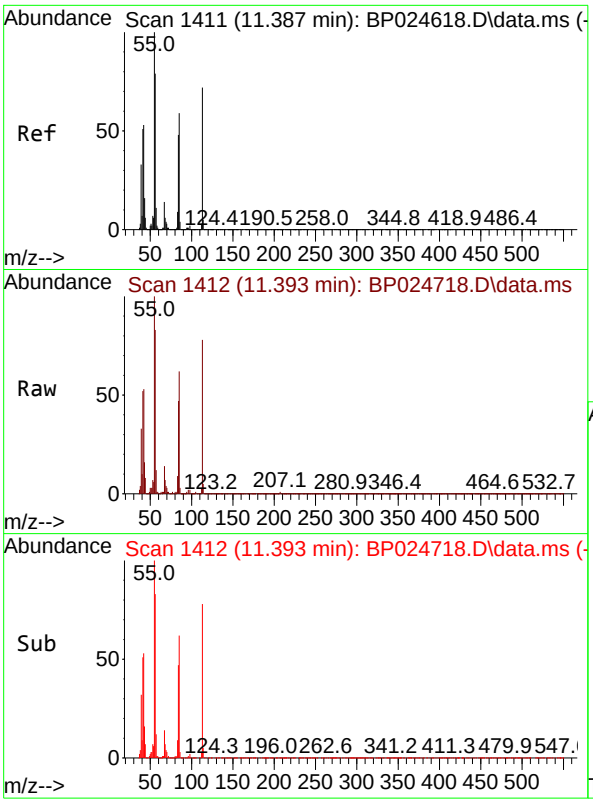


#34
Hexachlorobutadiene
Concen: 39.924 ng
RT: 10.752 min Scan# 1303
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:225 Resp: 198098

Ion	Ratio	Lower	Upper
225	100		
223	63.0	51.0	76.6
227	64.5	53.1	79.7



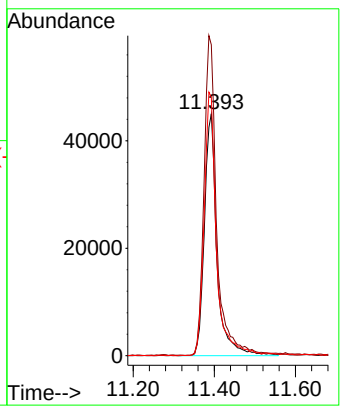


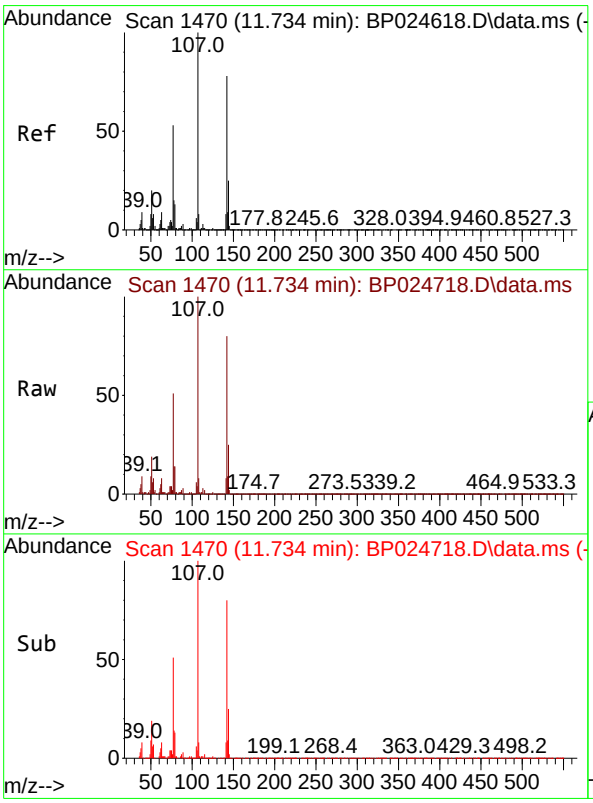
#35
Caprolactam
Concen: 39.146 ng
RT: 11.393 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:113 Resp: 96266

Ion	Ratio	Lower	Upper
113	100		
55	128.6	119.0	159.0
56	106.9	90.3	130.3

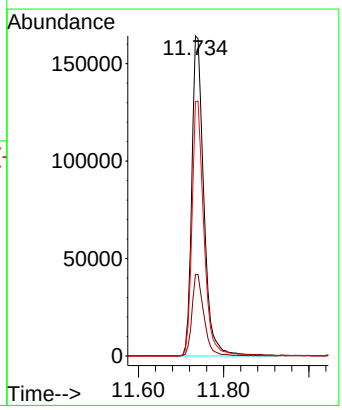


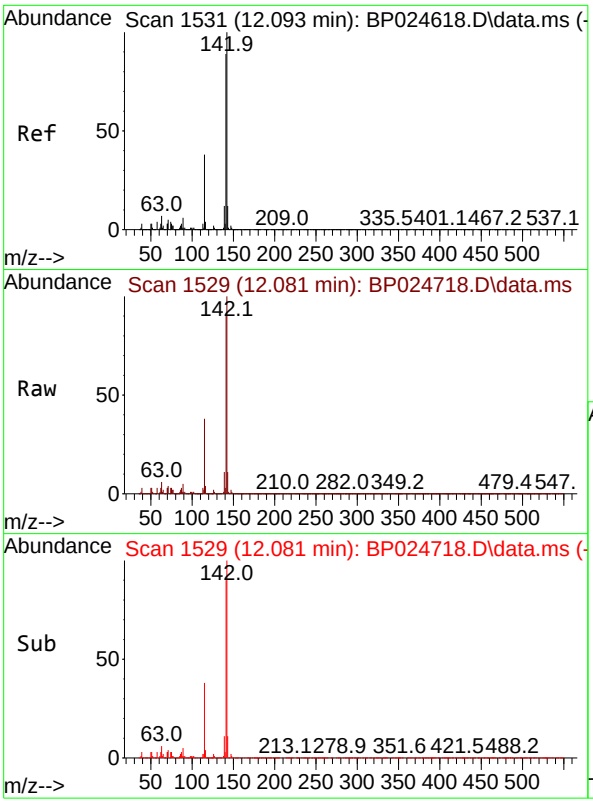


#36
4-Chloro-3-methylphenol
Concen: 38.826 ng
RT: 11.734 min Scan# 1470
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:107 Resp: 321821

Ion	Ratio	Lower	Upper
107	100		
144	25.5	20.1	30.1
142	79.6	62.1	93.1



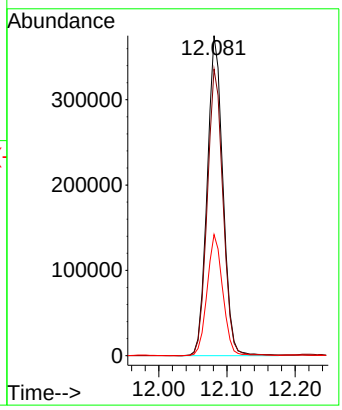


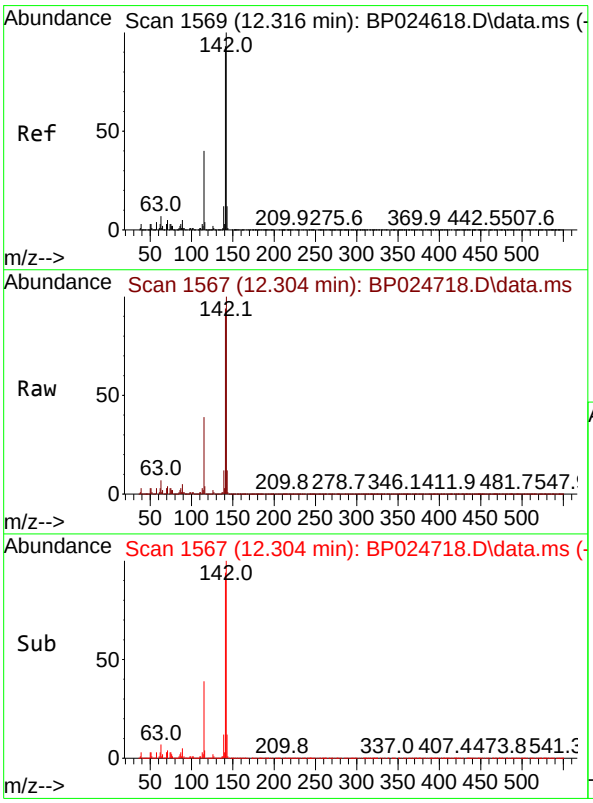
#37
2-Methylnaphthalene
Concen: 38.402 ng
RT: 12.081 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:142 Resp: 600646

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.2	106.8
115	37.9	30.6	46.0

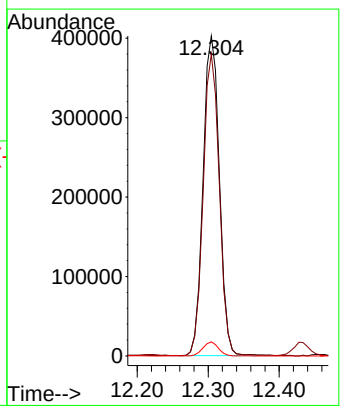


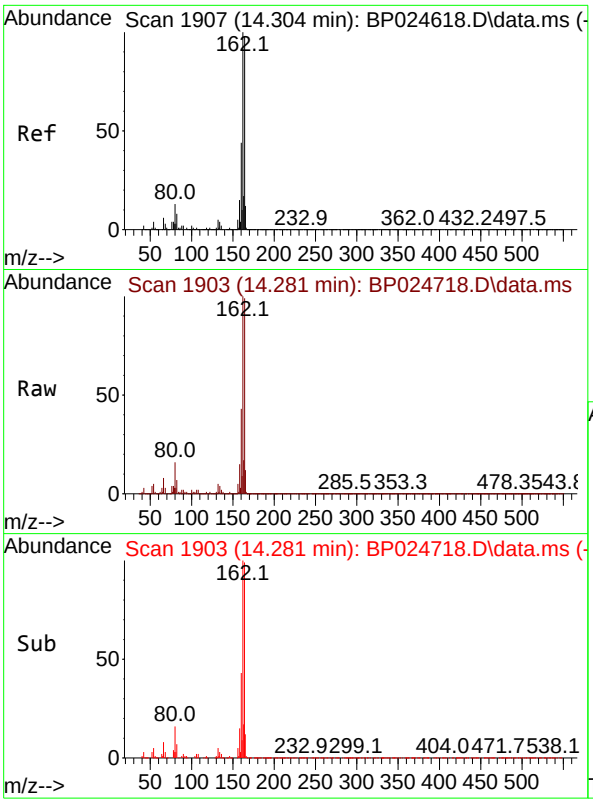


#38
1-Methylnaphthalene
Concen: 38.364 ng
RT: 12.304 min Scan# 1567
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:142 Resp: 642025

Ion	Ratio	Lower	Upper
142	100		
141	94.3	74.7	112.1
116	4.4	3.4	5.2



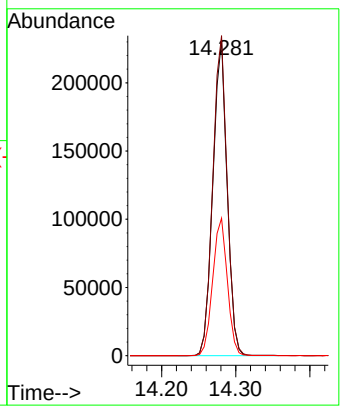


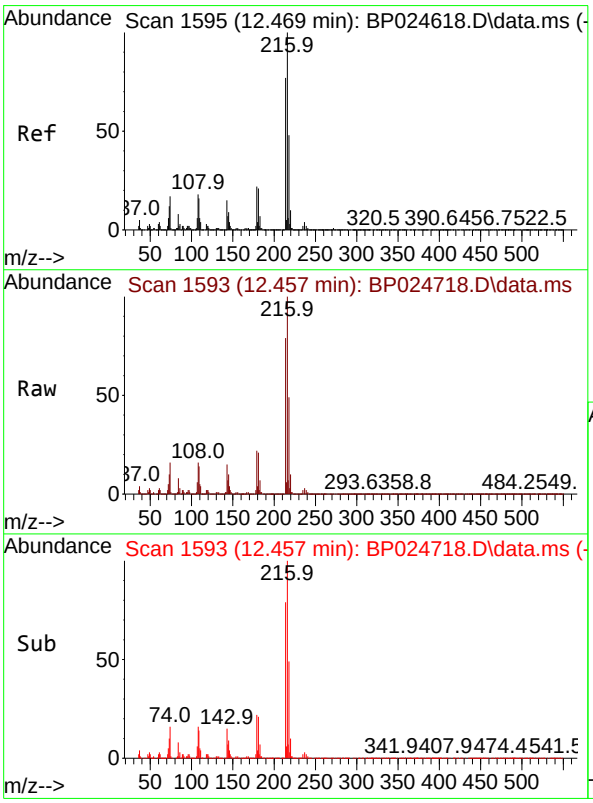
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.281 min Scan# 1
Delta R.T. -0.023 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:164 Resp: 307619

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.8	122.6
160	43.5	36.3	54.5

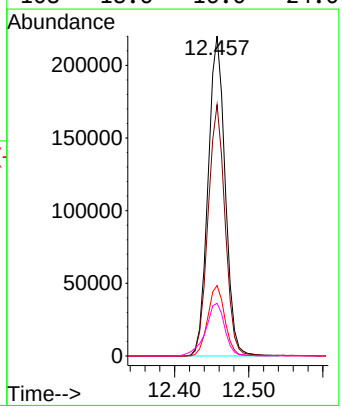


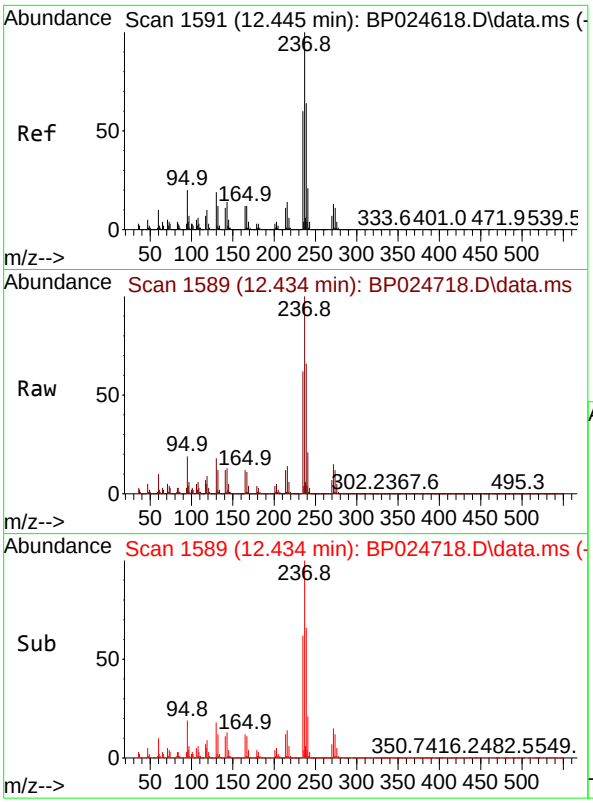


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.405 ng
RT: 12.457 min Scan# 1593
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:216 Resp: 352005

Ion	Ratio	Lower	Upper
216	100		
214	78.0	62.3	93.5
179	22.1	17.7	26.5
108	18.6	16.0	24.0



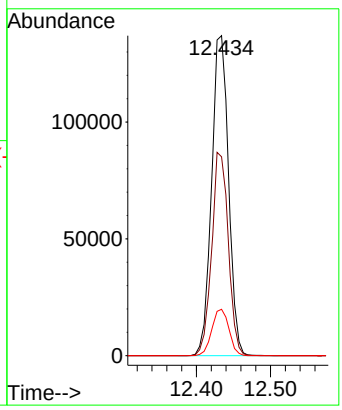


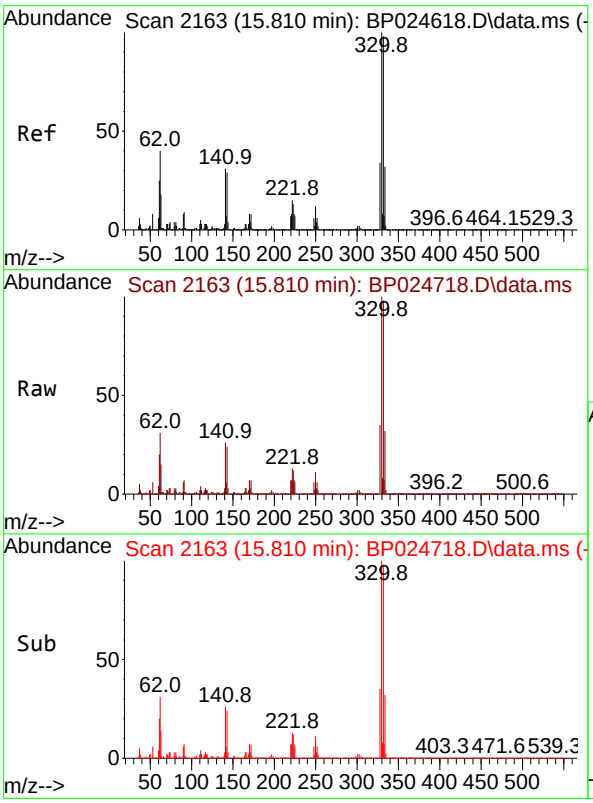
#41
Hexachlorocyclopentadiene
Concen: 40.091 ng
RT: 12.434 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:237 Resp: 217156

Ion	Ratio	Lower	Upper
237	100		
235	62.1	39.9	79.9
272	14.5	0.0	33.2

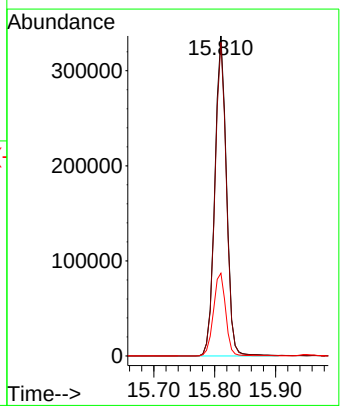


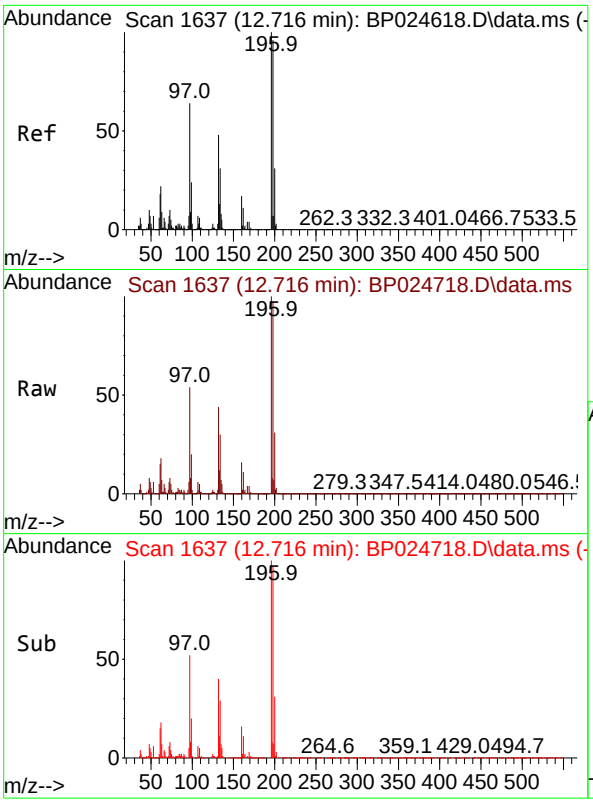


#42
2,4,6-Tribromophenol
Concen: 85.567 ng
RT: 15.810 min Scan# 2163
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:330 Resp: 446232

Ion	Ratio	Lower	Upper
330	100		
332	97.5	78.2	117.4
141	27.1	24.3	36.5



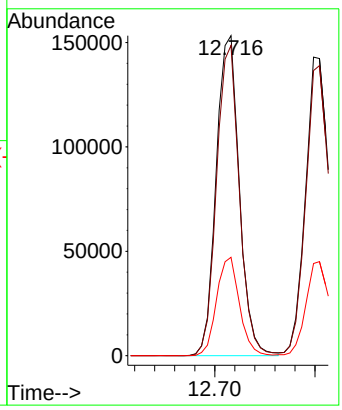


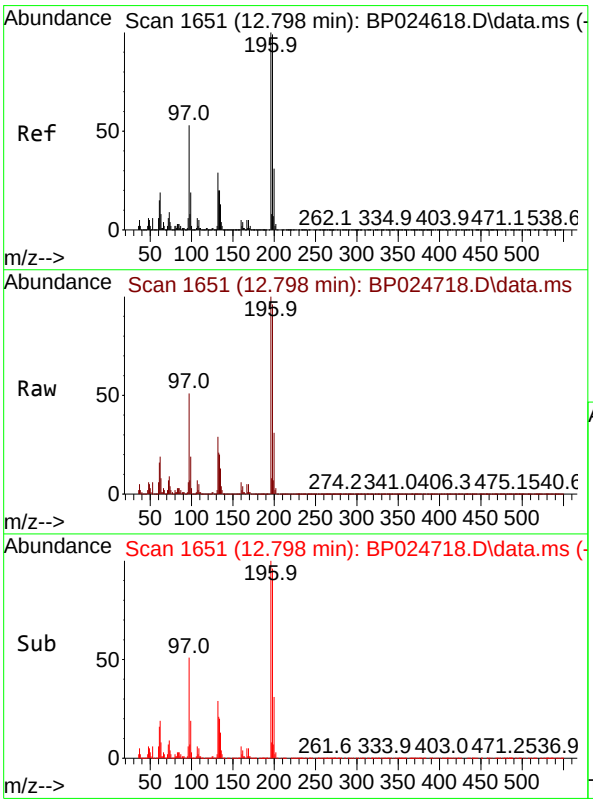
#43
2,4,6-Trichlorophenol
Concen: 42.455 ng
RT: 12.716 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:196 Resp: 245643

Ion	Ratio	Lower	Upper
196	100		
198	97.0	76.9	115.3
200	30.8	25.2	37.8

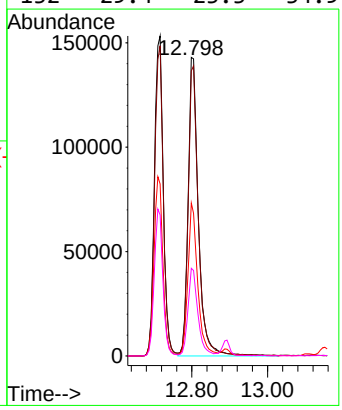


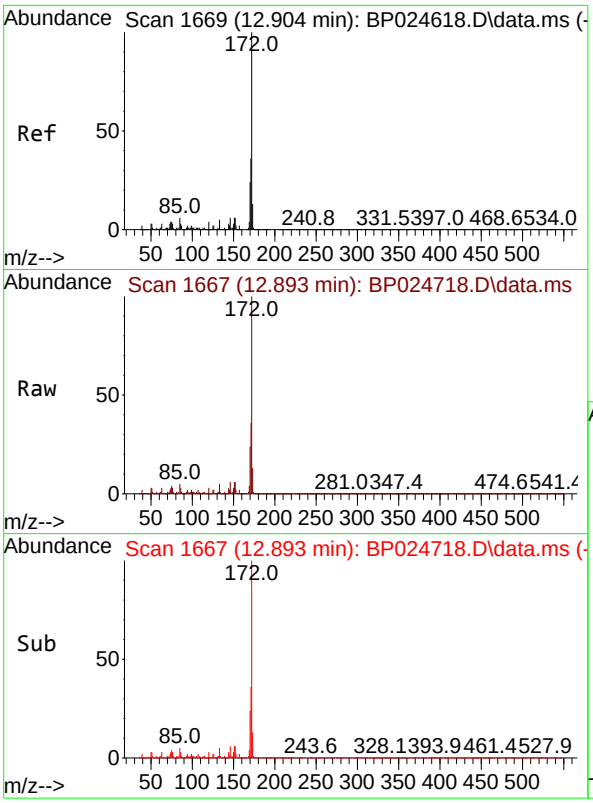


#44
2,4,5-Trichlorophenol
Concen: 41.995 ng
RT: 12.798 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:196 Resp: 270471

Ion	Ratio	Lower	Upper
196	100		
198	95.5	79.2	118.8
97	51.3	42.3	63.5
132	29.4	23.3	34.9



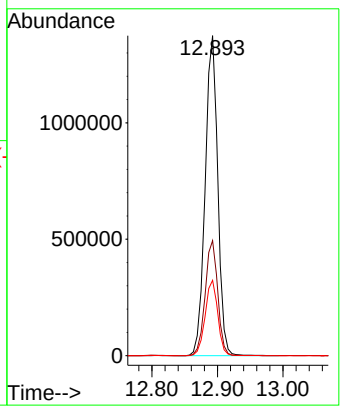


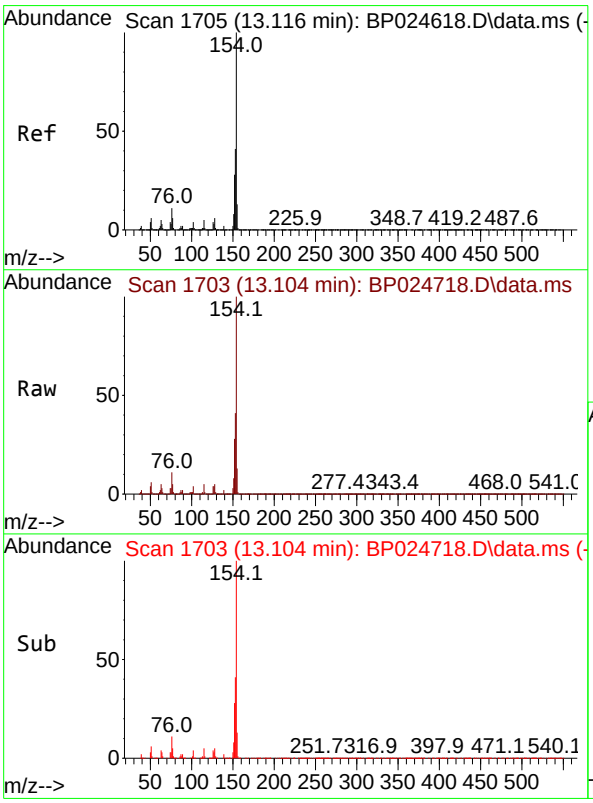
#45
2-Fluorobiphenyl
Concen: 78.240 ng
RT: 12.893 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:172 Resp: 1837081

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.5	18.8	28.2

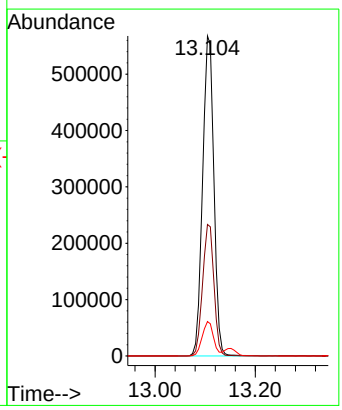


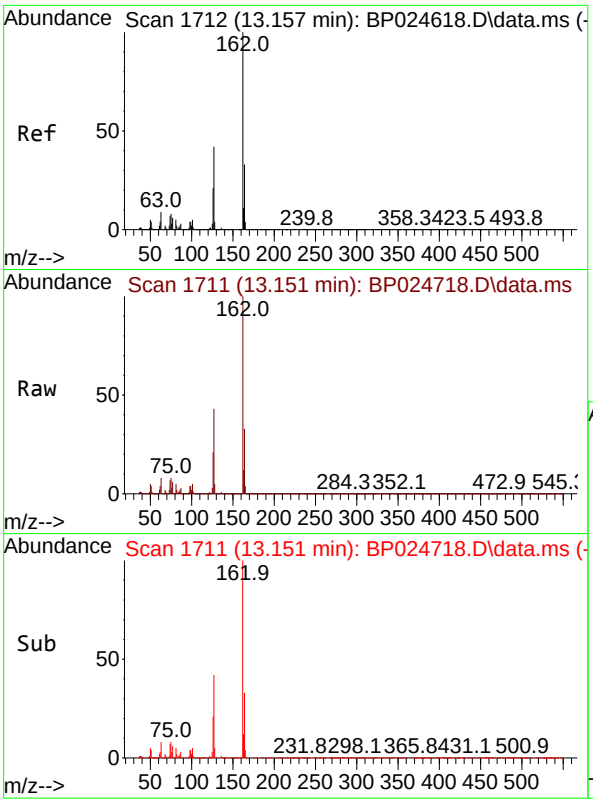


#46
1,1'-Biphenyl
Concen: 39.030 ng
RT: 13.104 min Scan# 1703
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:154 Resp: 887407

Ion	Ratio	Lower	Upper
154	100		
153	41.1	21.0	61.0
76	10.8	0.0	31.5



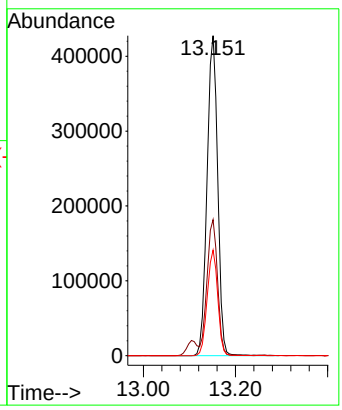


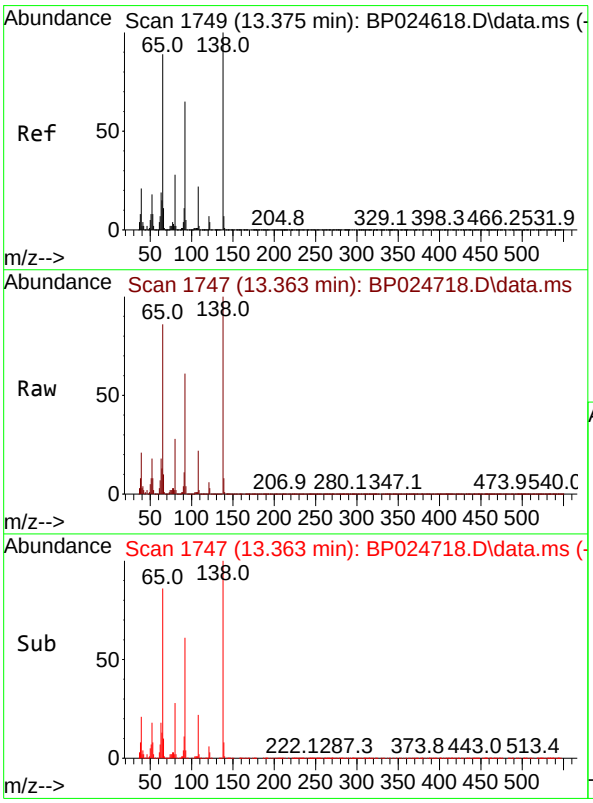
#47
2-Chloronaphthalene
Concen: 39.767 ng
RT: 13.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 689395

Ion	Ratio	Lower	Upper
162	100		
127	42.5	33.8	50.6
164	33.0	26.0	39.0

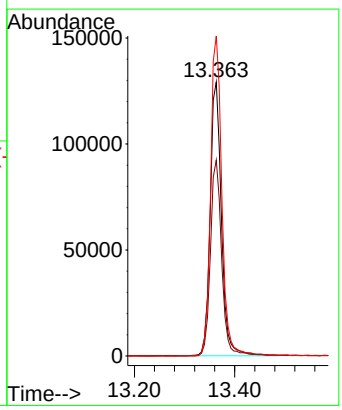


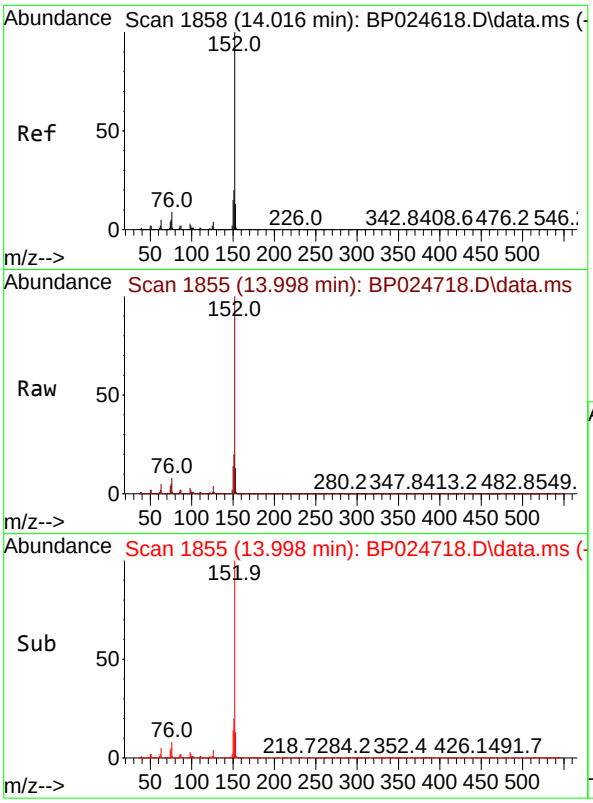


#48
2-Nitroaniline
Concen: 39.247 ng
RT: 13.363 min Scan# 1747
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion: 65 Resp: 201432

Ion	Ratio	Lower	Upper
65	100		
92	71.6	58.7	88.1
138	116.8	90.2	135.2



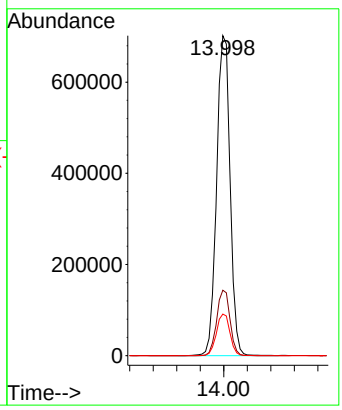


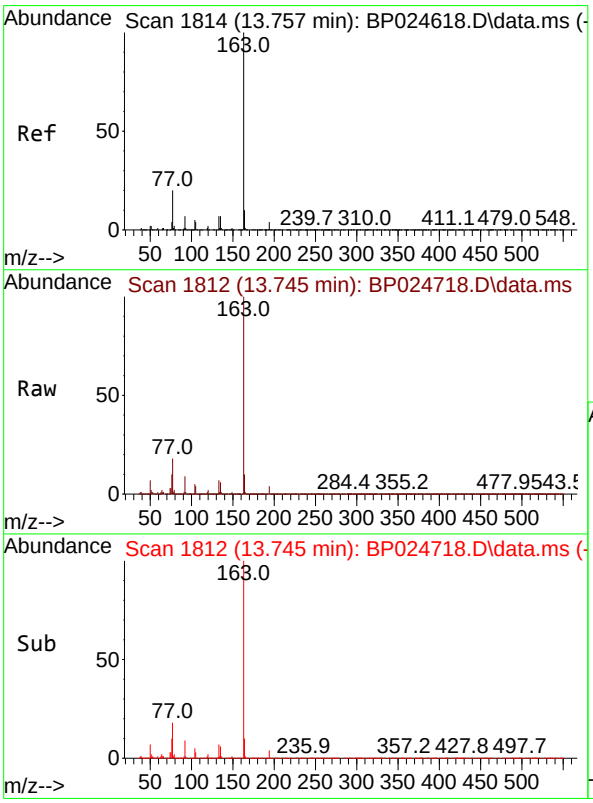
#49
Acenaphthylene
Concen: 38.344 ng
RT: 13.998 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 1112406

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.4
153	13.0	10.2	15.4

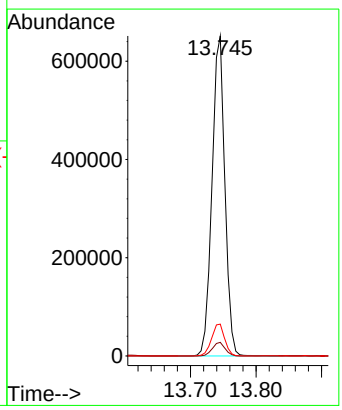


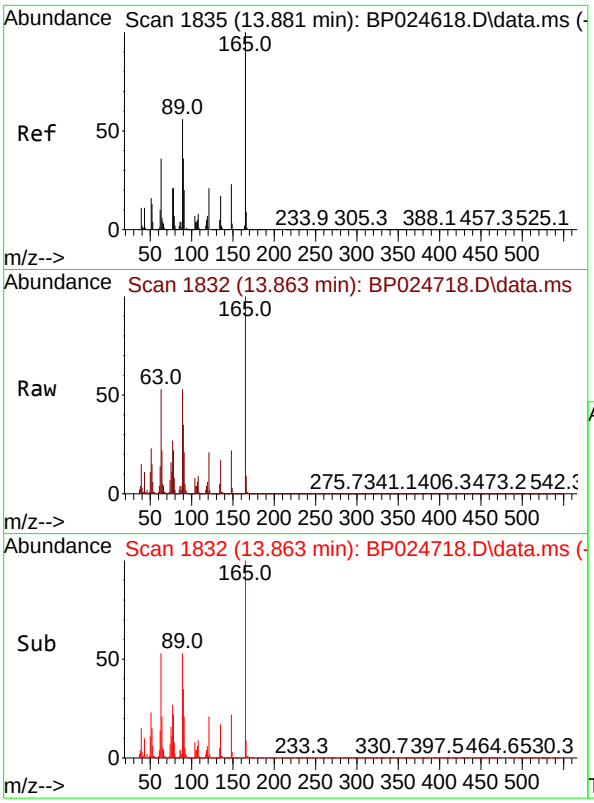


#50
Dimethylphthalate
Concen: 37.801 ng
RT: 13.745 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:163 Resp: 886318

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.0	8.1	12.1



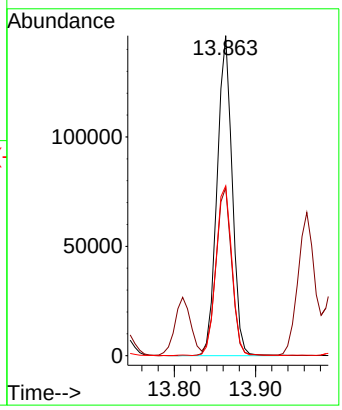


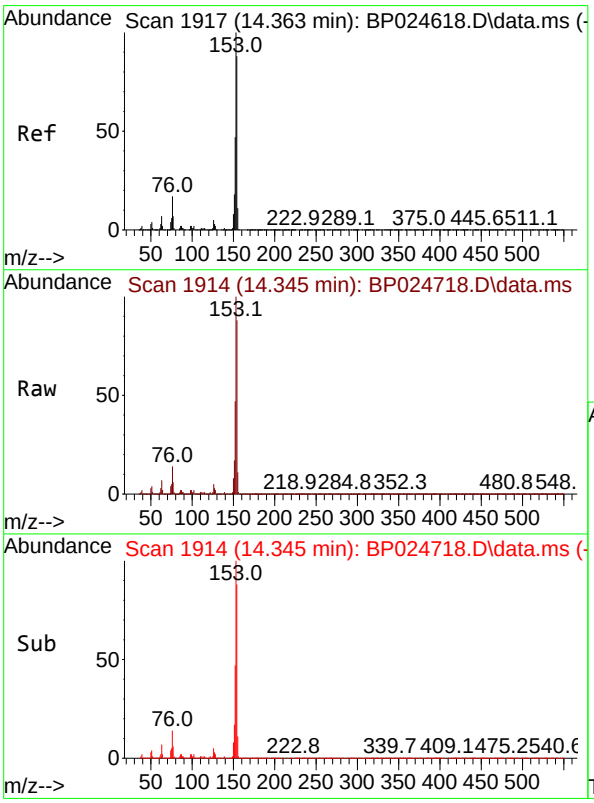
#51
2,6-Dinitrotoluene
Concen: 38.189 ng
RT: 13.863 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 189104

Ion	Ratio	Lower	Upper
165	100		
63	52.6	42.4	63.6
89	53.1	44.8	67.2

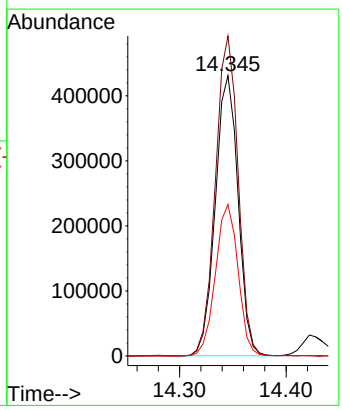


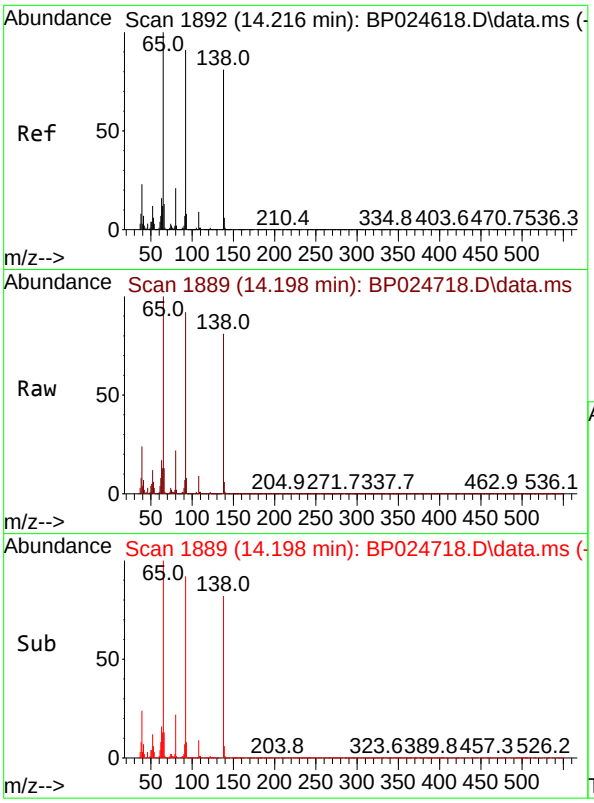


#52
Acenaphthene
Concen: 38.281 ng
RT: 14.345 min Scan# 1914
Delta R.T. -0.018 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:154 Resp: 638458

Ion	Ratio	Lower	Upper
154	100		
153	114.1	91.0	136.4
152	54.0	42.9	64.3



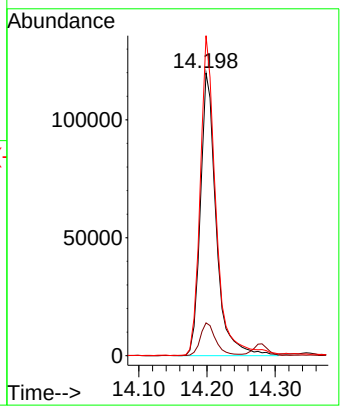


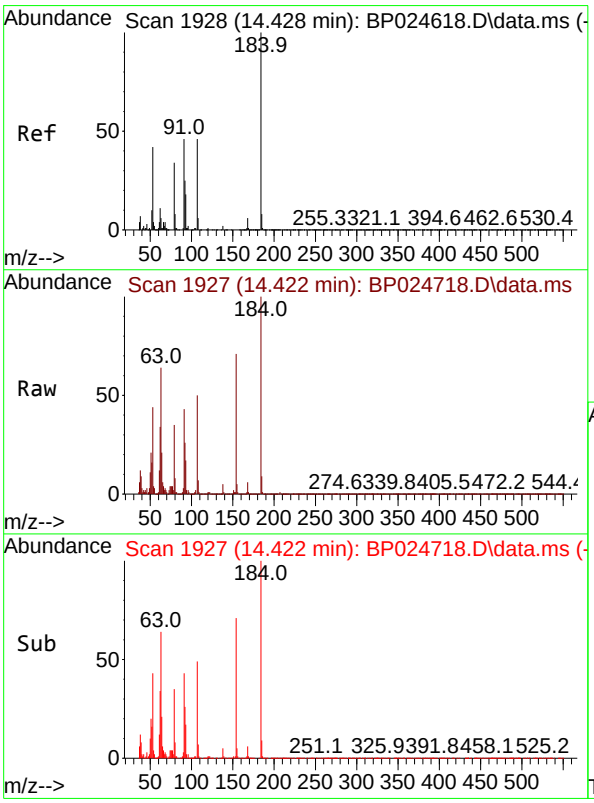
#53
3-Nitroaniline
Concen: 38.181 ng
RT: 14.198 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:138 Resp: 193051

Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.0	13.4
92	113.2	90.1	135.1

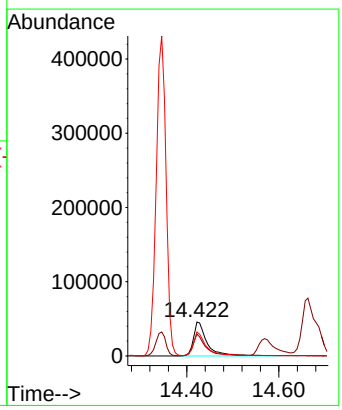


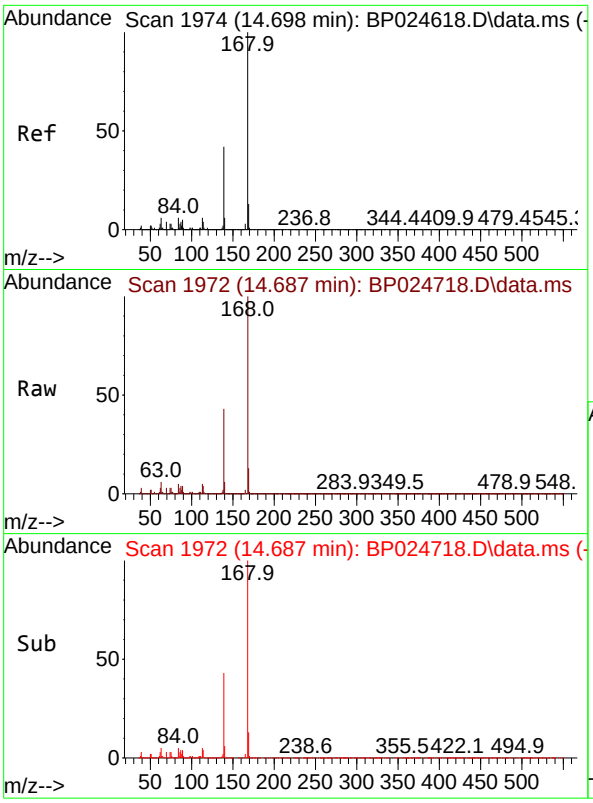


#54
2,4-Dinitrophenol
Concen: 34.279 ng
RT: 14.422 min Scan# 1927
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:184 Resp: 94621

Ion	Ratio	Lower	Upper
184	100		
63	64.5	51.3	76.9
154	70.5	53.5	80.3



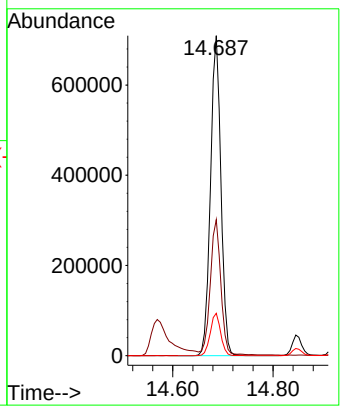


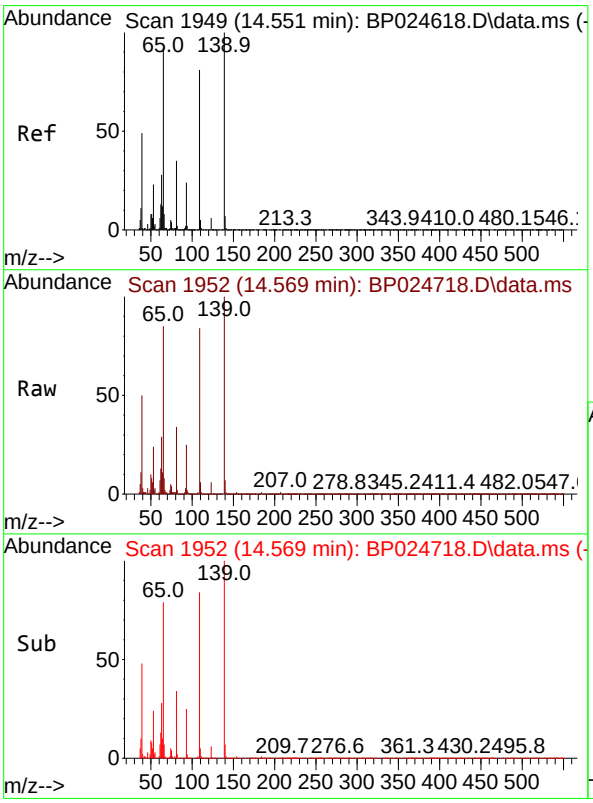
#55
Dibenzofuran
Concen: 38.480 ng
RT: 14.687 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:168 Resp: 1023680

Ion	Ratio	Lower	Upper
168	100		
139	42.5	34.2	51.4
169	13.2	10.8	16.2

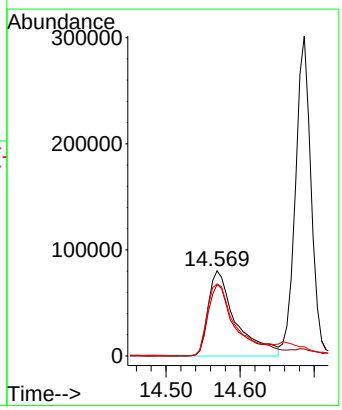


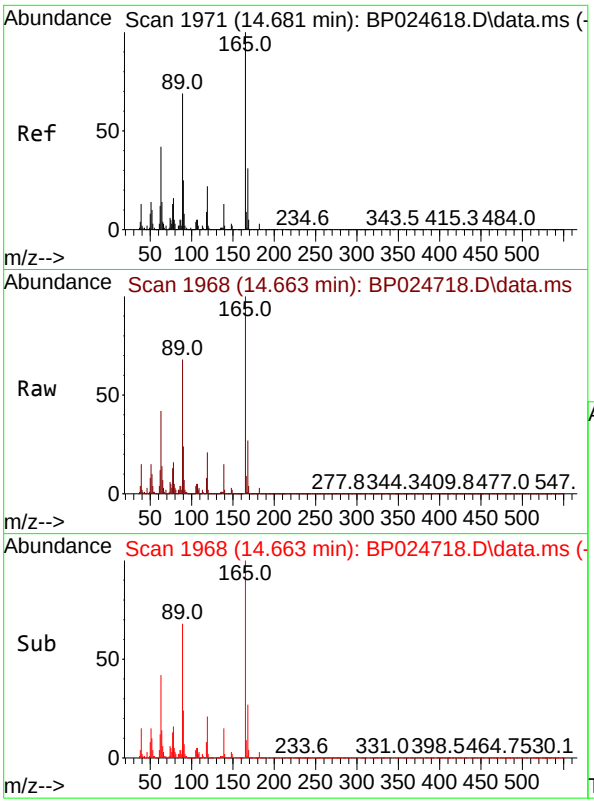


#56
4-Nitrophenol
Concen: 49.318 ng
RT: 14.569 min Scan# 1952
Delta R.T. 0.018 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:139 Resp: 208380

Ion	Ratio	Lower	Upper
139	100		
109	83.9	61.4	101.4
65	84.6	72.2	112.2



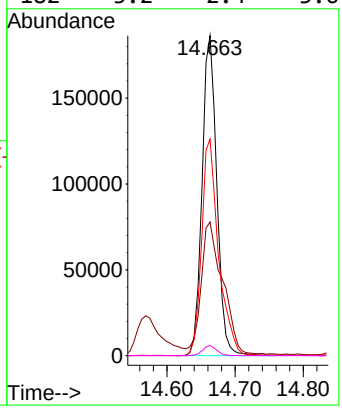


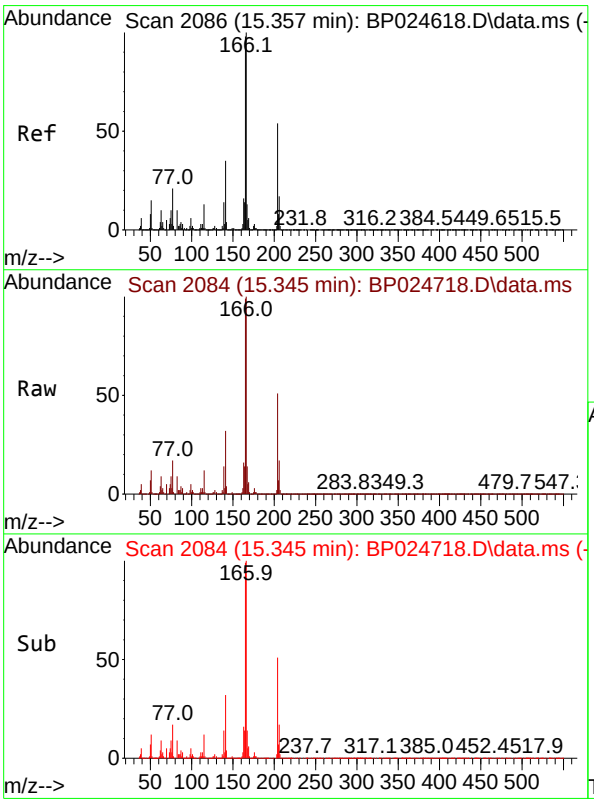
#57
2,4-Dinitrotoluene
Concen: 40.118 ng
RT: 14.663 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 280073

Ion	Ratio	Lower	Upper
165	100		
63	41.8	33.8	50.6
89	67.7	55.6	83.4
182	3.2	2.4	3.6

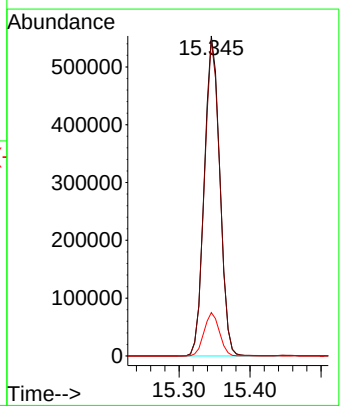


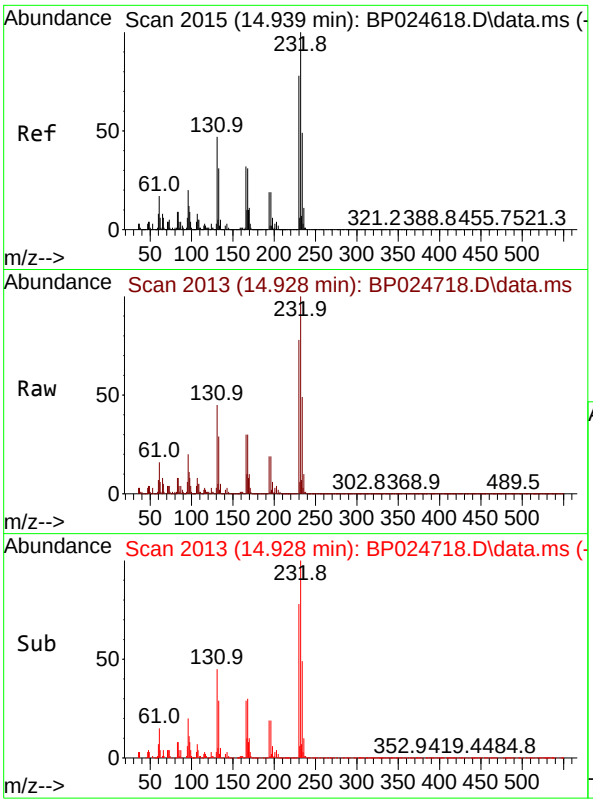


#58
Fluorene
Concen: 38.752 ng
RT: 15.345 min Scan# 2084
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:166 Resp: 840603

Ion	Ratio	Lower	Upper
166	100		
165	98.8	78.5	117.7
167	13.5	10.7	16.1



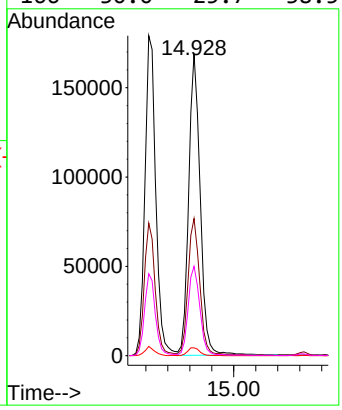


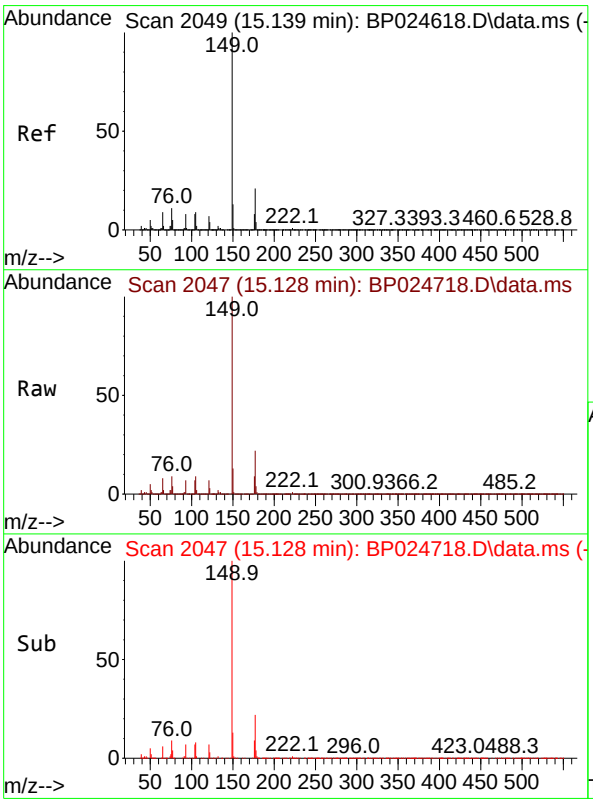
#59
2,3,4,6-Tetrachlorophenol
Concen: 40.990 ng
RT: 14.928 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:232 Resp: 244897

Ion	Ratio	Lower	Upper
232	100		
131	45.7	39.5	59.3
130	2.8	2.2	3.4
166	30.0	25.7	38.5

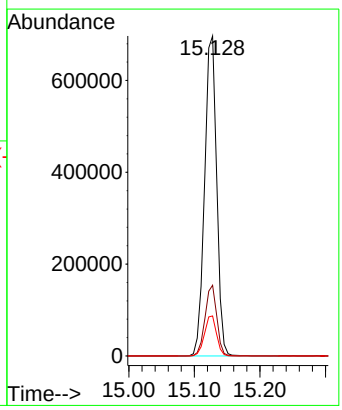


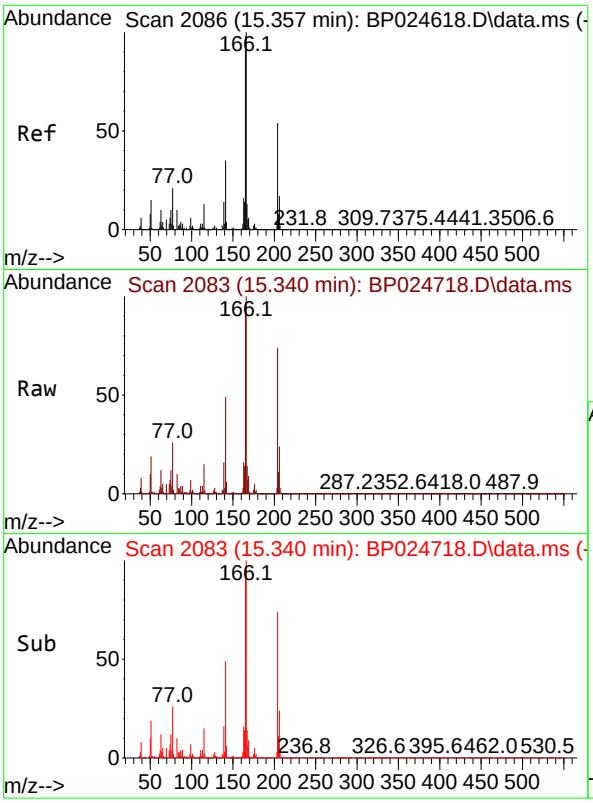


#60
Diethylphthalate
Concen: 37.754 ng
RT: 15.128 min Scan# 2047
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:149 Resp: 894699

Ion	Ratio	Lower	Upper
149	100		
177	22.1	16.7	25.1
150	12.5	10.2	15.2



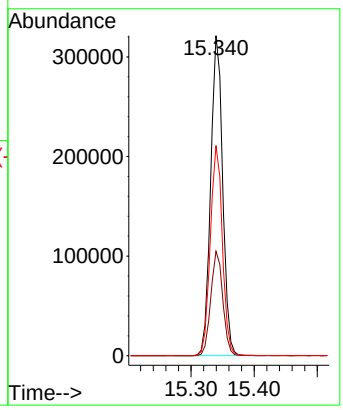


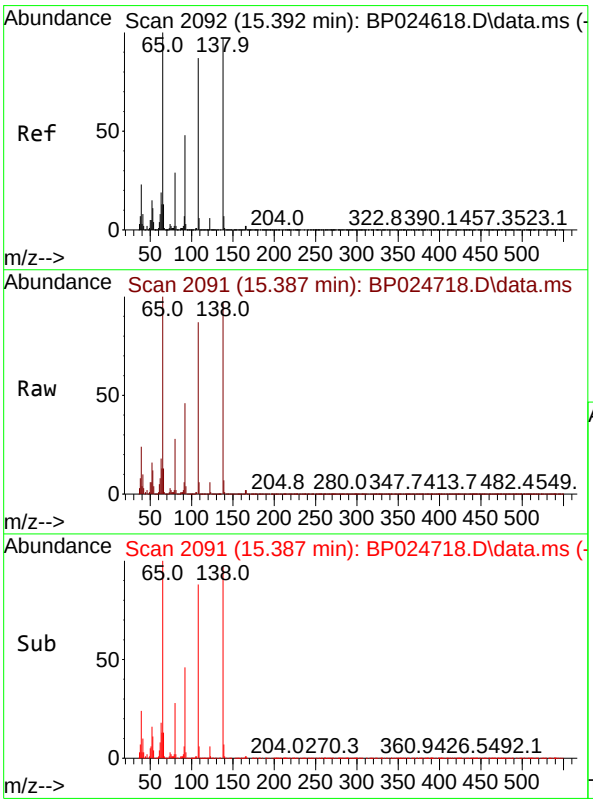
#61
4-Chlorophenyl-phenylether
Concen: 39.049 ng
RT: 15.340 min Scan# 2
Delta R.T. -0.018 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:204 Resp: 422424

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.0	39.0
141	65.6	52.9	79.3

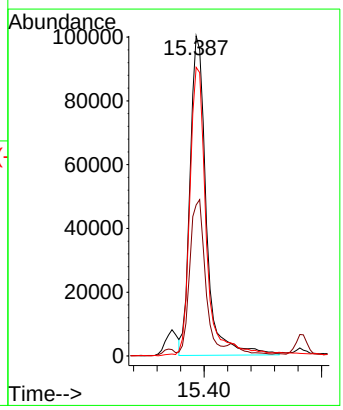


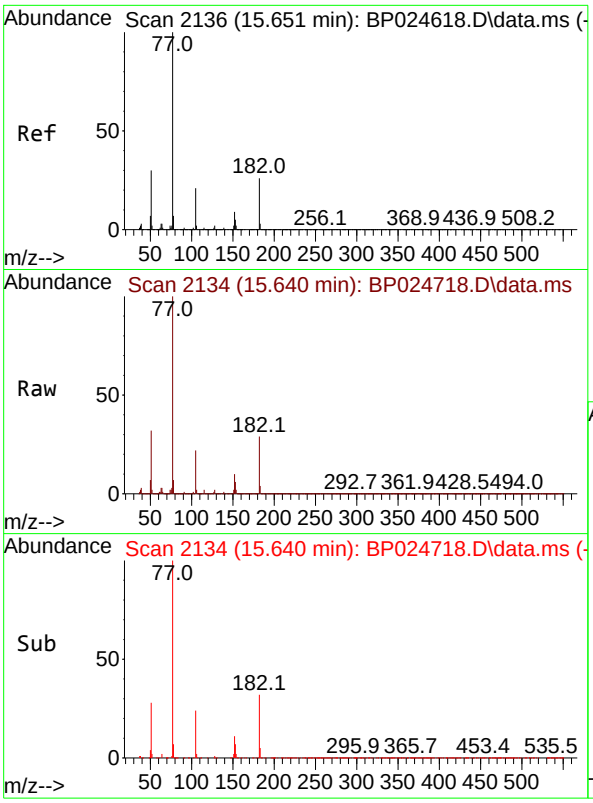


#62
4-Nitroaniline
Concen: 39.479 ng
RT: 15.387 min Scan# 2091
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:138 Resp: 192740

Ion	Ratio	Lower	Upper
138	100		
92	47.2	29.2	69.2
108	90.2	69.0	109.0



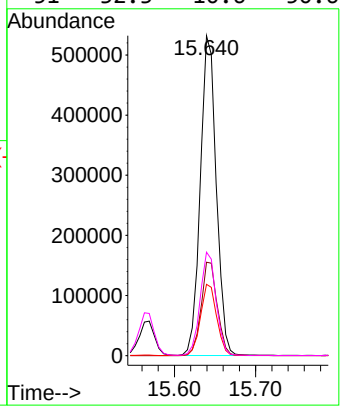


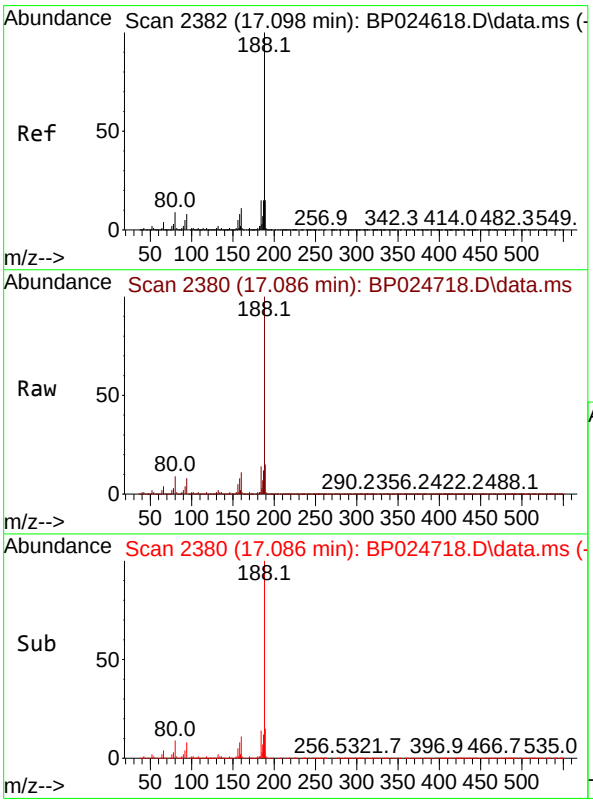
#63
Azobenzene
Concen: 35.857 ng
RT: 15.640 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 726922

Ion	Ratio	Lower	Upper
77	100		
182	29.2	5.7	45.7
105	22.3	1.3	41.3
51	32.3	10.6	50.6

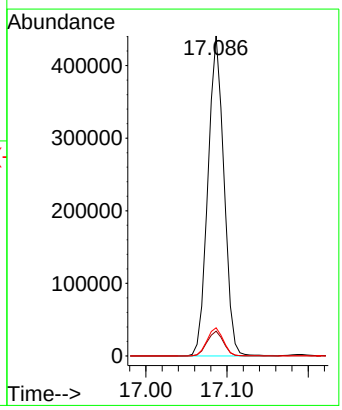


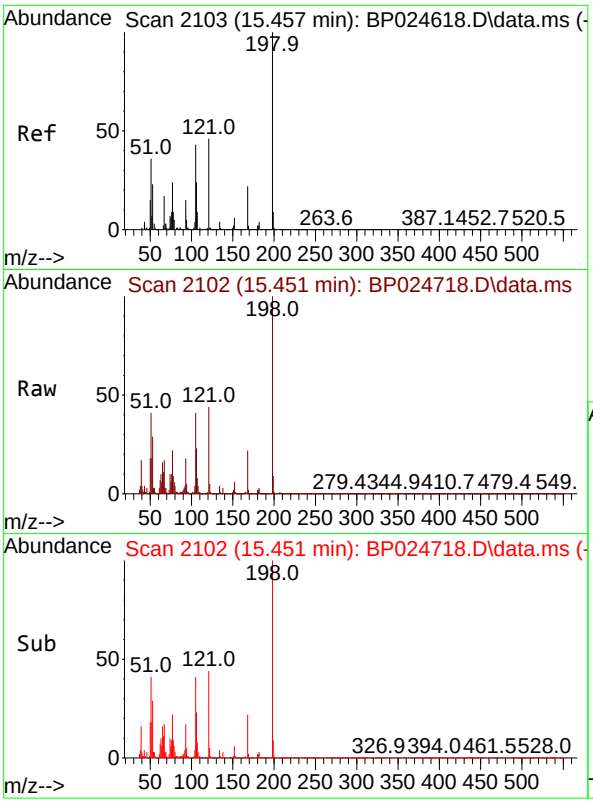


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.086 min Scan# 2380
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:188 Resp: 604437

Ion	Ratio	Lower	Upper
188	100		
94	7.7	6.5	9.7
80	8.8	7.3	10.9



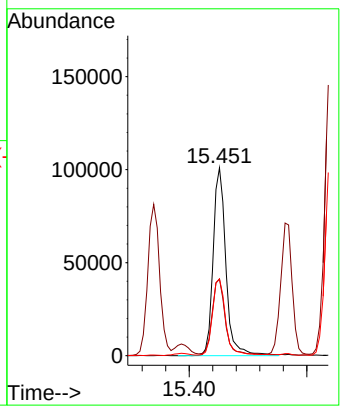


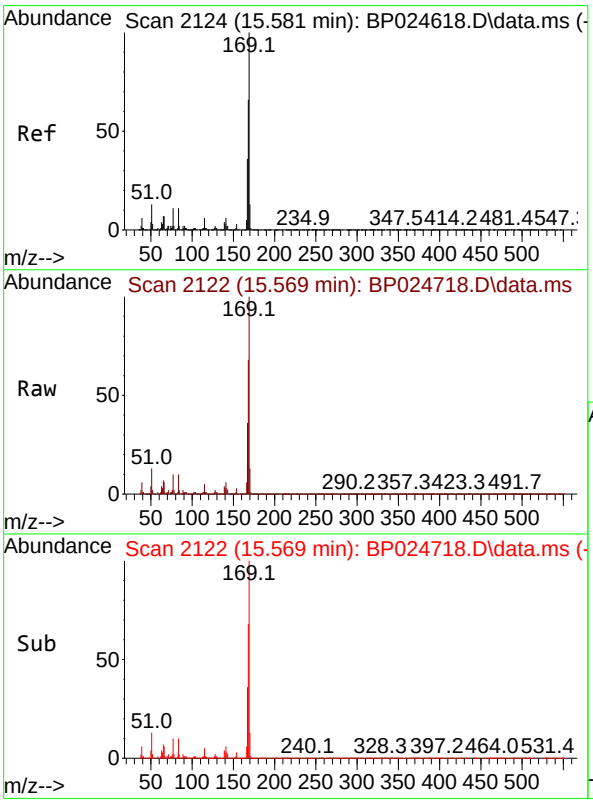
#65
4,6-Dinitro-2-methylphenol
Concen: 38.869 ng
RT: 15.451 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:198 Resp: 151755

Ion	Ratio	Lower	Upper
198	100		
51	40.8	21.1	61.1
105	40.9	23.6	63.6

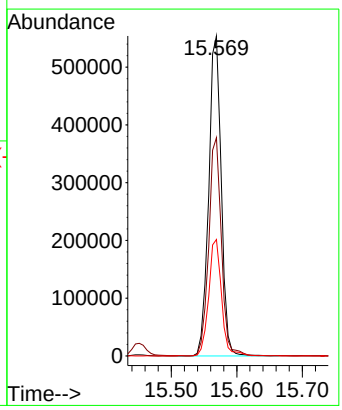


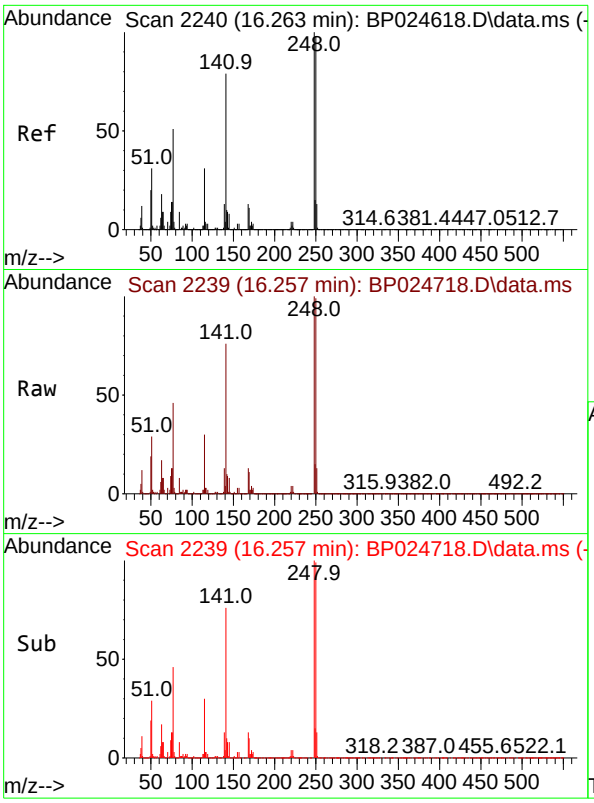


#66
n-Nitrosodiphenylamine
Concen: 39.573 ng
RT: 15.569 min Scan# 2122
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:169 Resp: 734714

Ion	Ratio	Lower	Upper
169	100		
168	68.2	53.2	79.8
167	36.4	28.6	43.0



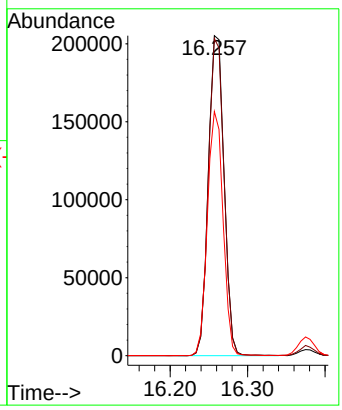


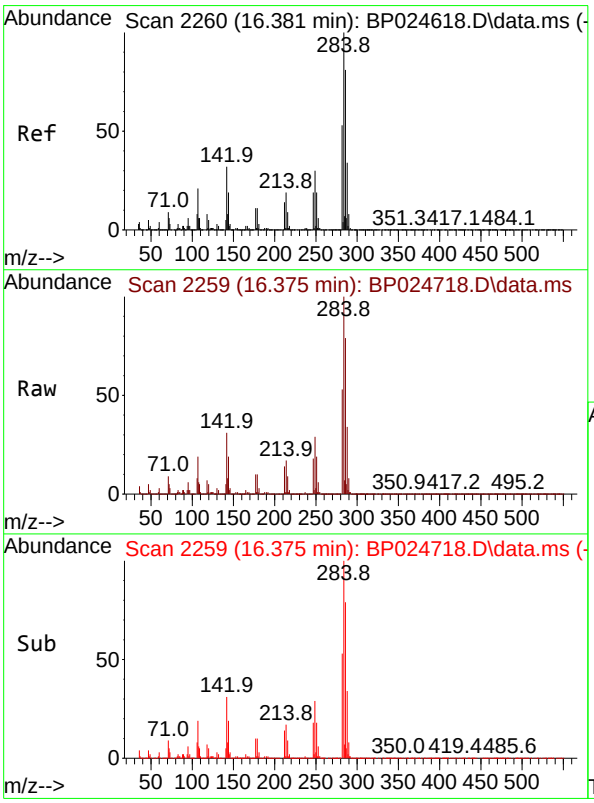
#67
4-Bromophenyl-phenylether
Concen: 40.631 ng
RT: 16.257 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:248 Resp: 289391

Ion	Ratio	Lower	Upper
248	100		
250	99.2	78.2	117.4
141	76.3	63.0	94.6

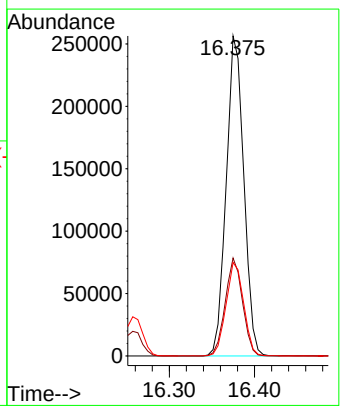


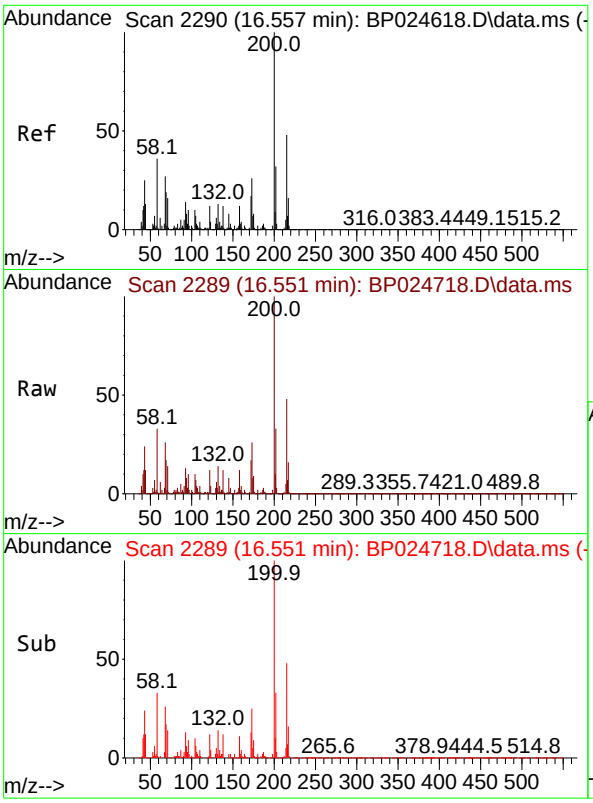


#68
Hexachlorobenzene
Concen: 40.587 ng
RT: 16.375 min Scan# 2259
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:284 Resp: 367323

Ion	Ratio	Lower	Upper
284	100		
142	30.6	25.9	38.9
249	29.2	24.1	36.1



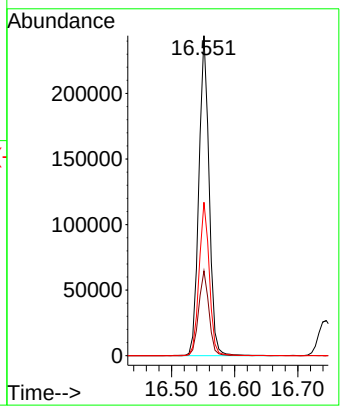


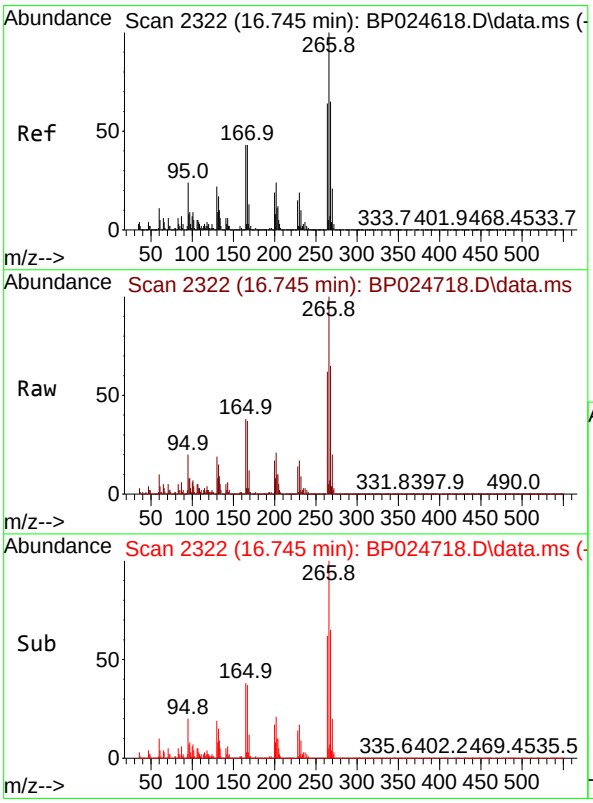
#69
Atrazine
Concen: 40.239 ng
RT: 16.551 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:200 Resp: 273779

Ion	Ratio	Lower	Upper
200	100		
173	26.5	5.9	45.9
215	48.0	28.3	68.3

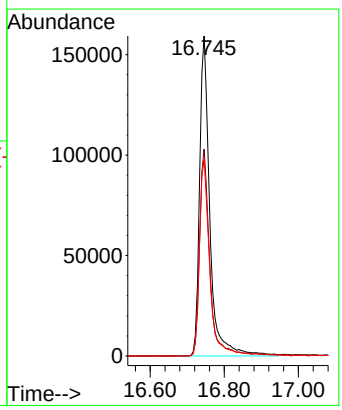


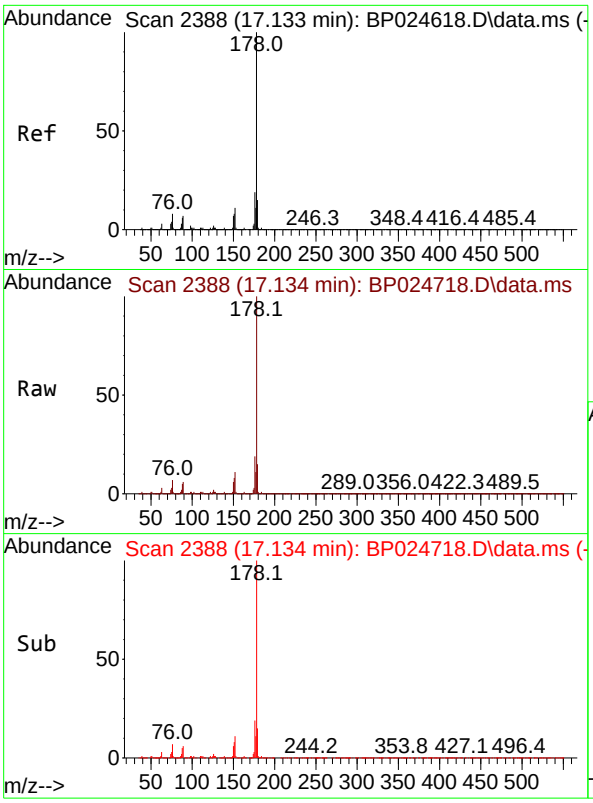


#70
Pentachlorophenol
Concen: 60.045 ng
RT: 16.745 min Scan# 2322
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:266 Resp: 305048

Ion	Ratio	Lower	Upper
266	100		
268	64.7	52.2	78.4
264	61.5	51.1	76.7



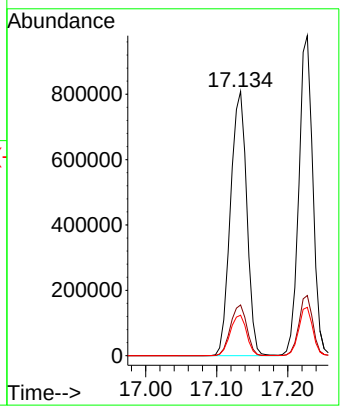


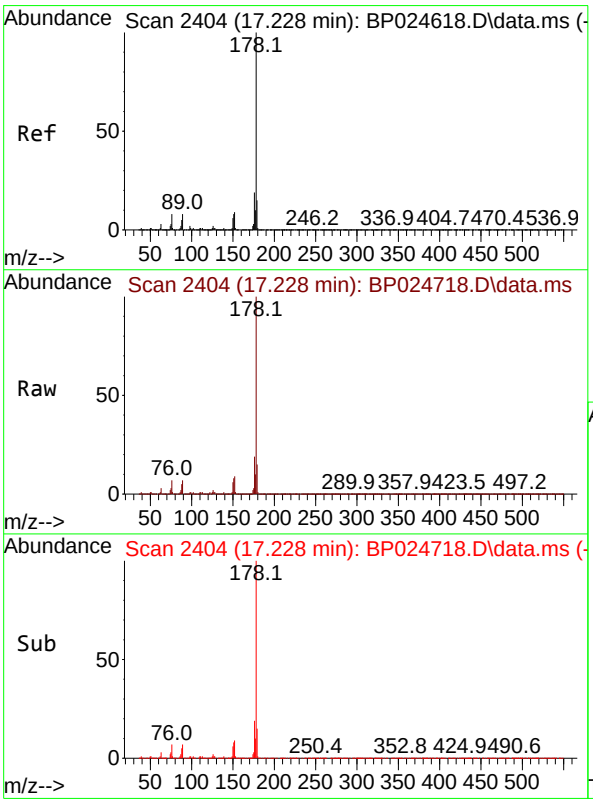
#71
Phenanthrene
Concen: 38.410 ng
RT: 17.134 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:178 Resp: 1290635

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.3	12.2	18.4

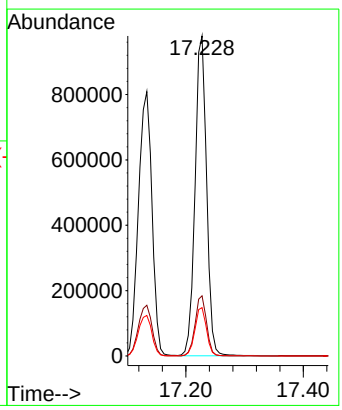


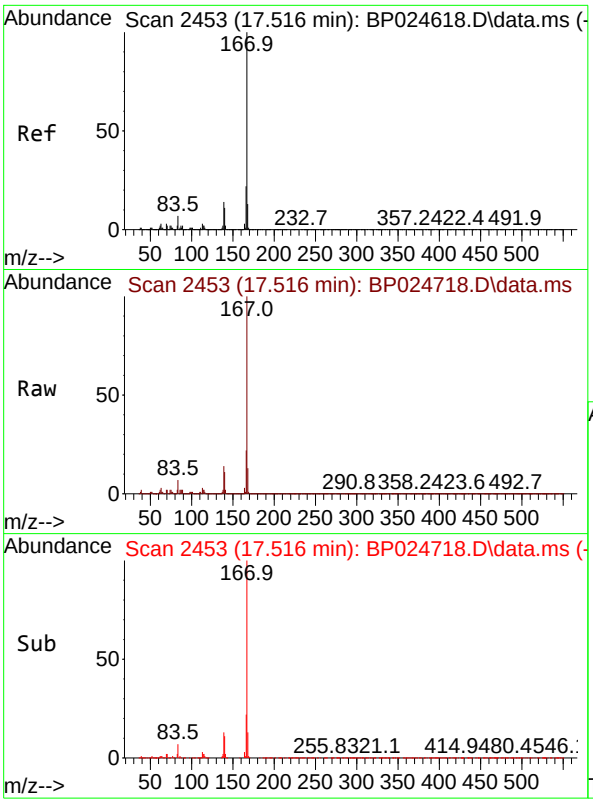


#72
Anthracene
Concen: 39.430 ng
RT: 17.228 min Scan# 2404
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:178 Resp: 1333010

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.1	12.2	18.2



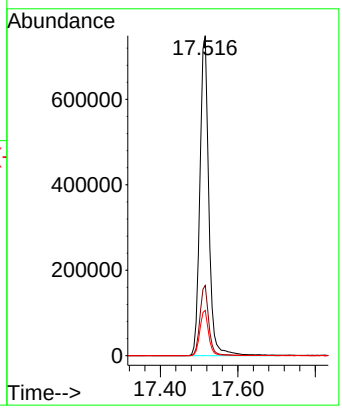


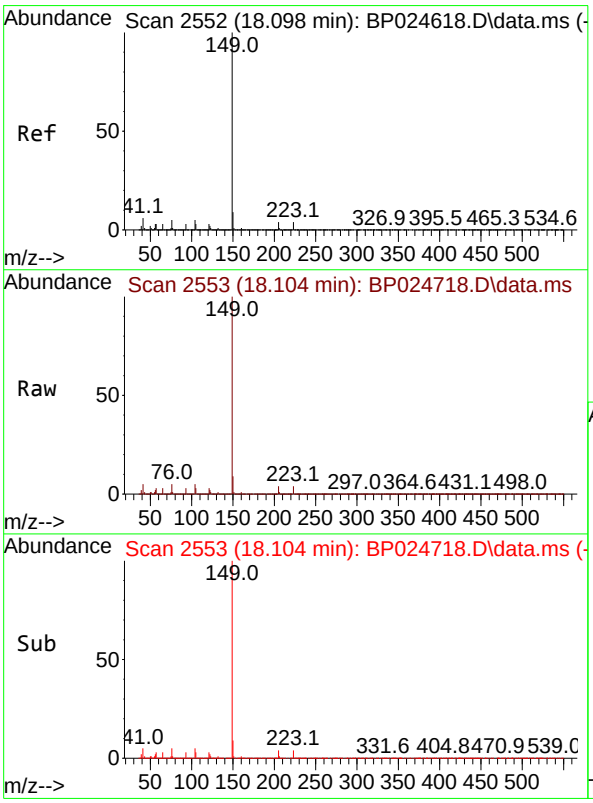
#73
Carbazole
Concen: 39.035 ng
RT: 17.516 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:167 Resp: 1194415

Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.7	26.5
139	14.2	11.3	16.9

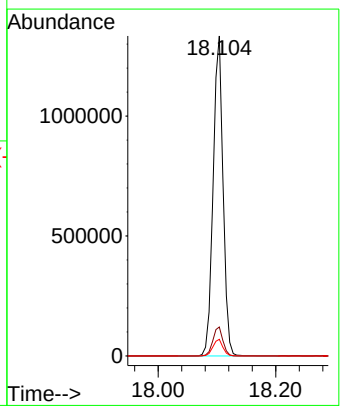


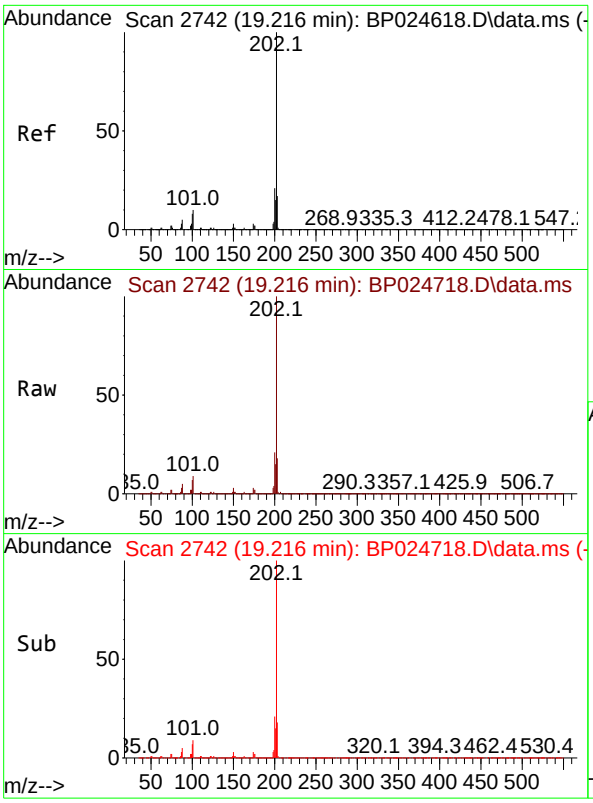


#74
Di-n-butylphthalate
Concen: 39.599 ng
RT: 18.104 min Scan# 2553
Delta R.T. 0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:149 Resp: 1558306

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.2	10.8
104	5.2	4.3	6.5



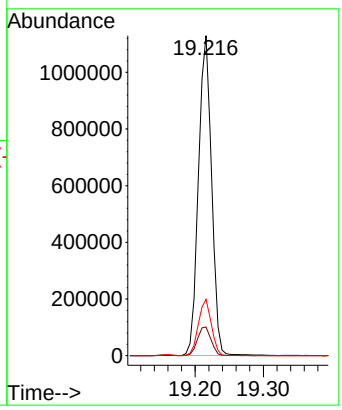


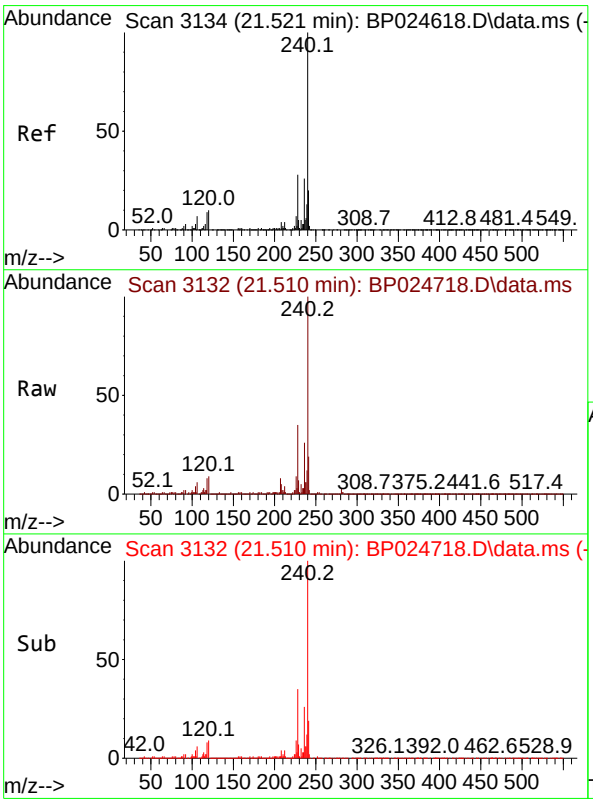
#75
Fluoranthene
Concen: 38.550 ng
RT: 19.216 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:202 Resp: 1514175

Ion	Ratio	Lower	Upper
202	100		
101	9.0	0.0	30.3
203	17.6	0.0	37.5

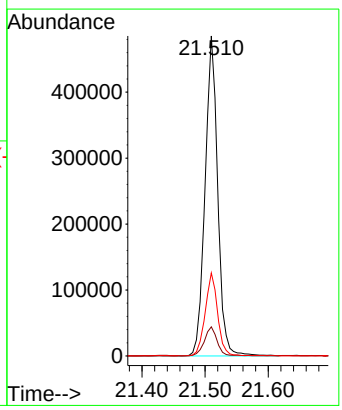


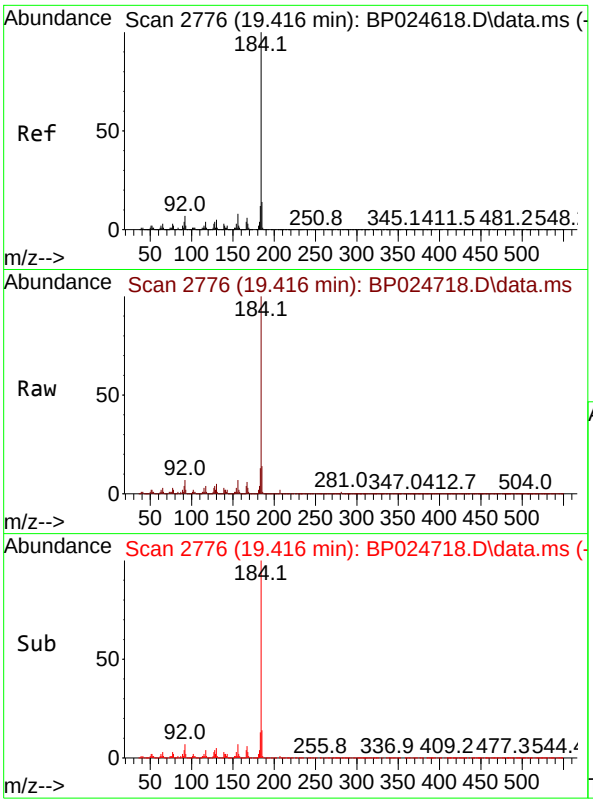


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.510 min Scan# 3132
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:240 Resp: 676763

Ion	Ratio	Lower	Upper
240	100		
120	9.1	7.8	11.6
236	26.0	20.6	31.0



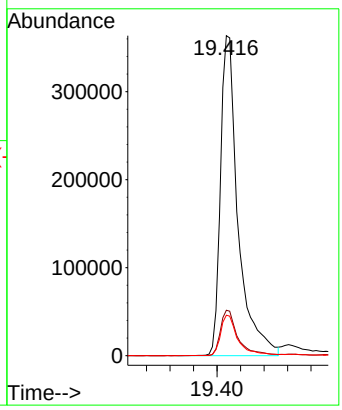


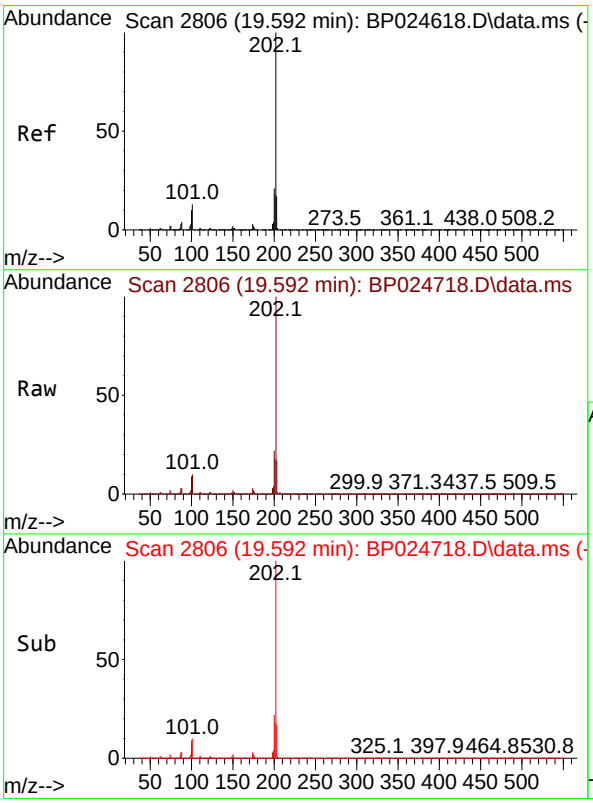
#77
Benzidine
Concen: 40.966 ng
RT: 19.416 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:184 Resp: 755105

Ion	Ratio	Lower	Upper
184	100		
185	14.2	11.2	16.8
183	12.6	9.8	14.8

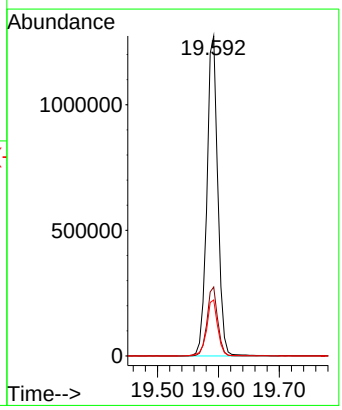


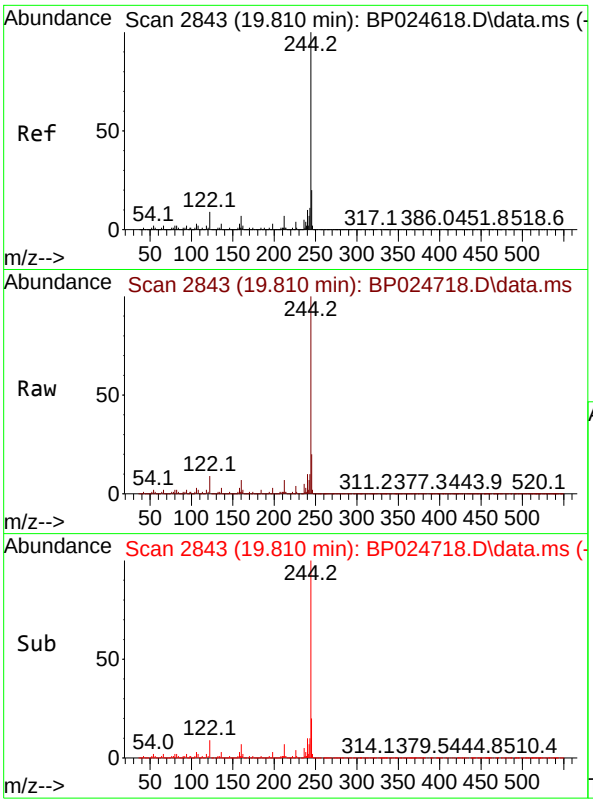


#78
Pyrene
Concen: 39.038 ng
RT: 19.592 min Scan# 2806
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:202 Resp: 1583011

Ion	Ratio	Lower	Upper
202	100		
200	21.5	16.9	25.3
203	17.5	13.9	20.9



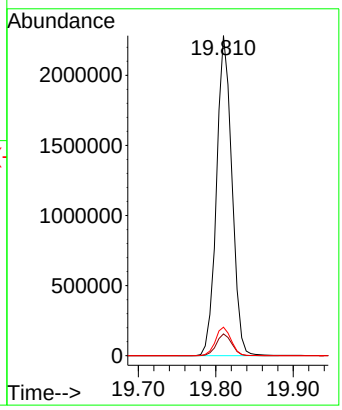


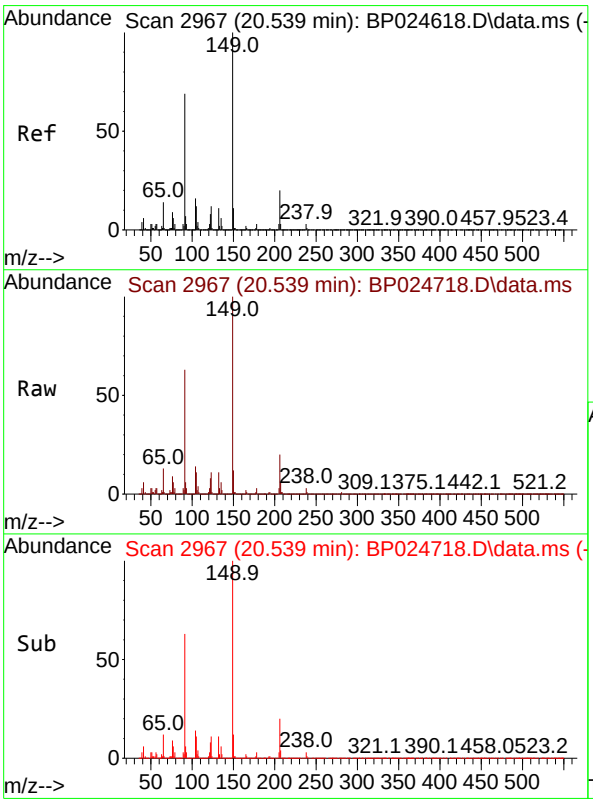
#79
Terphenyl-d14
Concen: 80.005 ng
RT: 19.810 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:244 Resp: 3157658

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.5	8.3
122	8.9	7.4	11.0

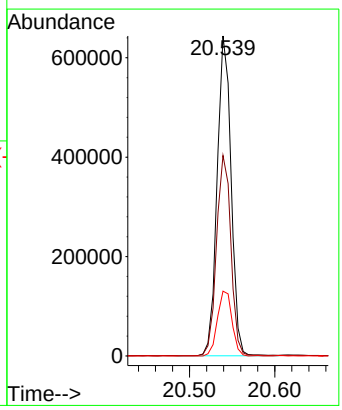


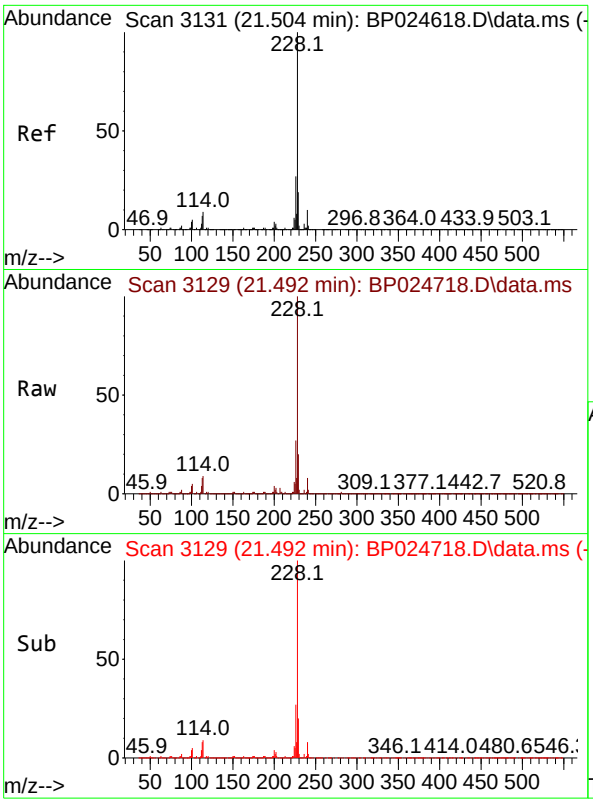


#80
Butylbenzylphthalate
Concen: 40.524 ng
RT: 20.539 min Scan# 2967
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:149 Resp: 730821

Ion	Ratio	Lower	Upper
149	100		
91	62.7	55.4	83.0
206	20.3	16.2	24.2



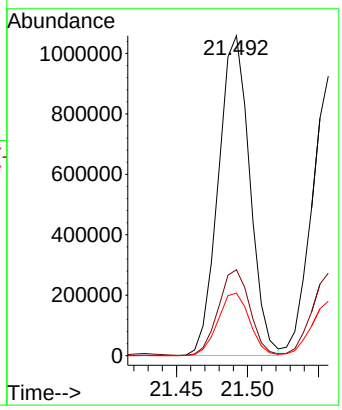


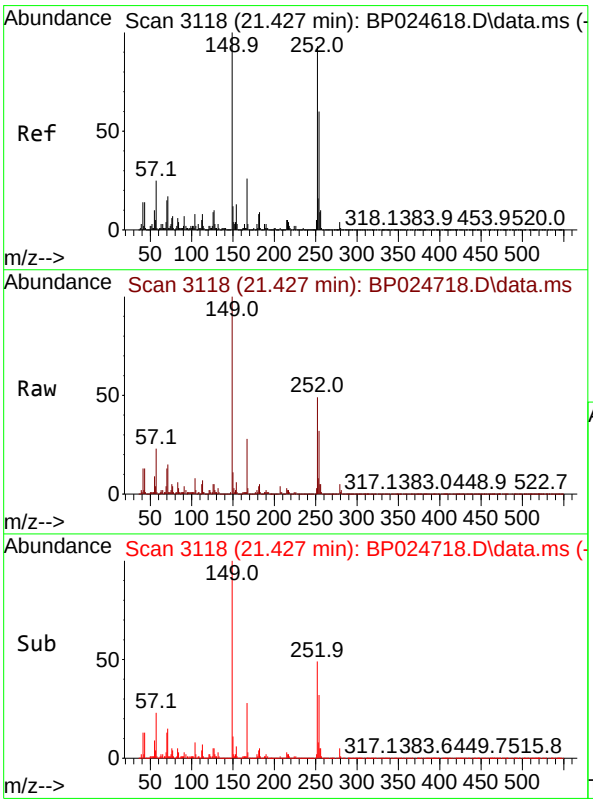
#81
Benzo(a)anthracene
Concen: 38.339 ng
RT: 21.492 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 1629224

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.4	32.0
229	19.6	15.5	23.3

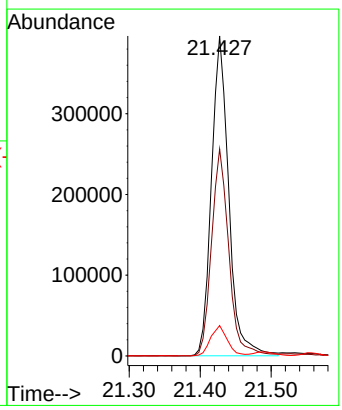


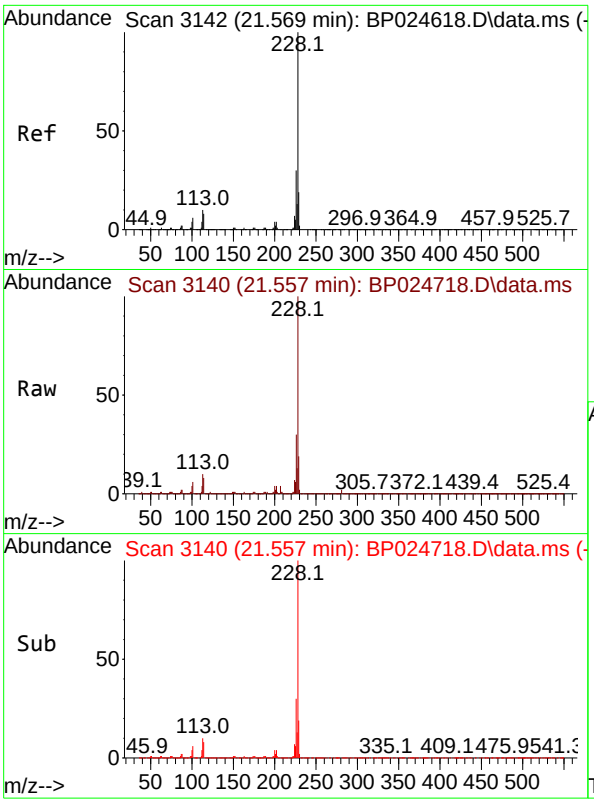


#82
3,3'-Dichlorobenzidine
Concen: 42.389 ng
RT: 21.427 min Scan# 3118
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:252 Resp: 669047

Ion	Ratio	Lower	Upper
252	100		
254	64.7	51.8	77.6
126	9.5	7.7	11.5



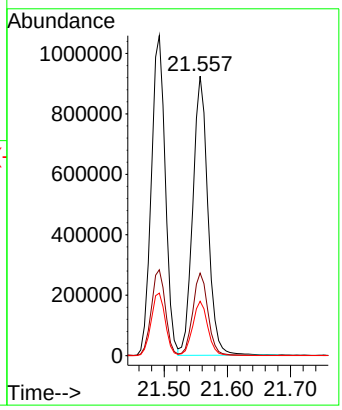


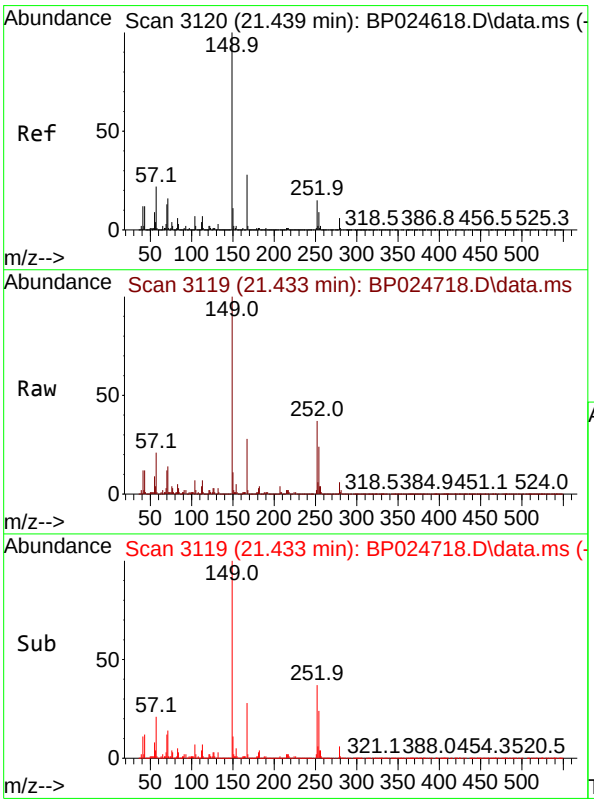
#83
Chrysene
Concen: 38.059 ng
RT: 21.557 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 1533150

Ion	Ratio	Lower	Upper
228	100		
226	29.6	23.9	35.9
229	19.5	15.5	23.3

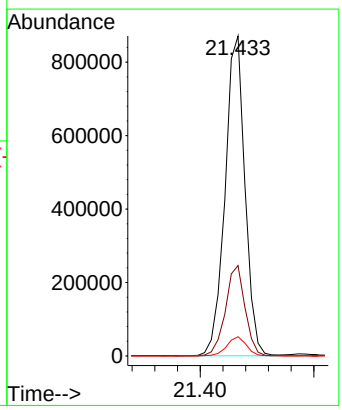


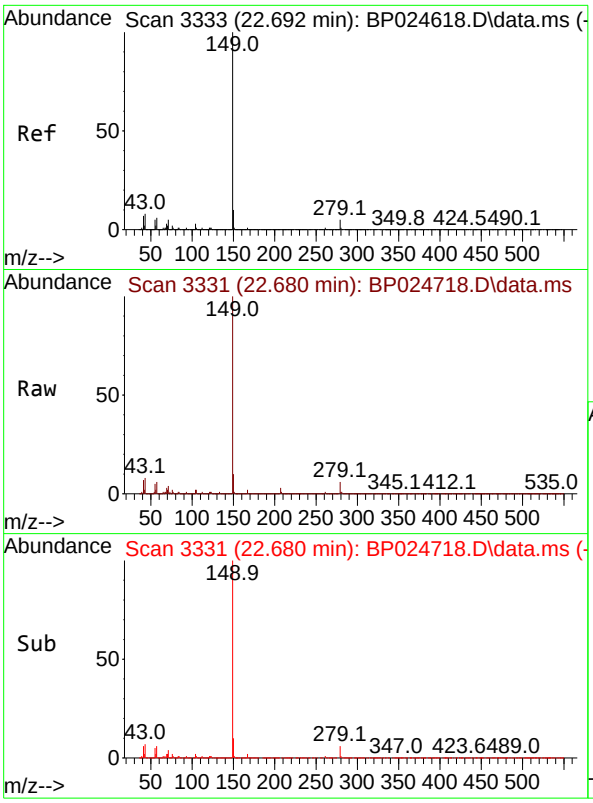


#84
Bis(2-ethylhexyl)phthalate
Concen: 39.893 ng
RT: 21.433 min Scan# 3119
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:149 Resp: 1057445

Ion	Ratio	Lower	Upper
149	100		
167	28.2	22.1	33.1
279	6.0	4.6	6.8



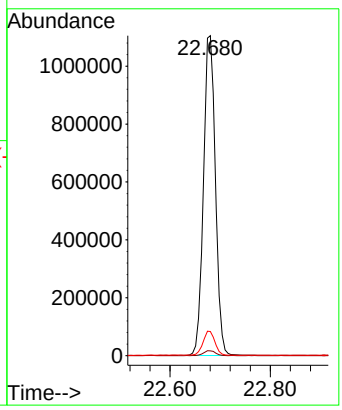


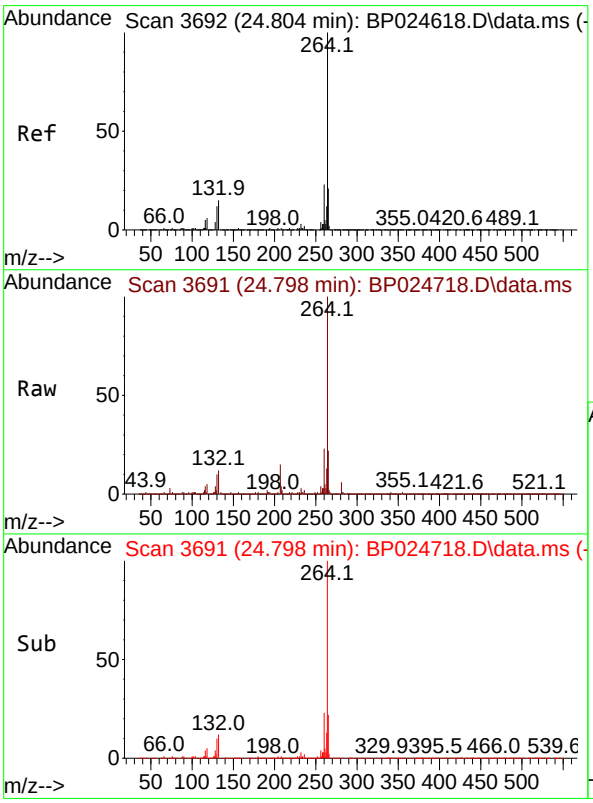
#85
Di-n-octyl phthalate
Concen: 42.130 ng
RT: 22.680 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:149 Resp: 1826217

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.5	6.3	9.5

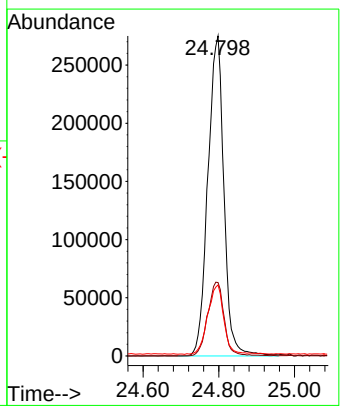


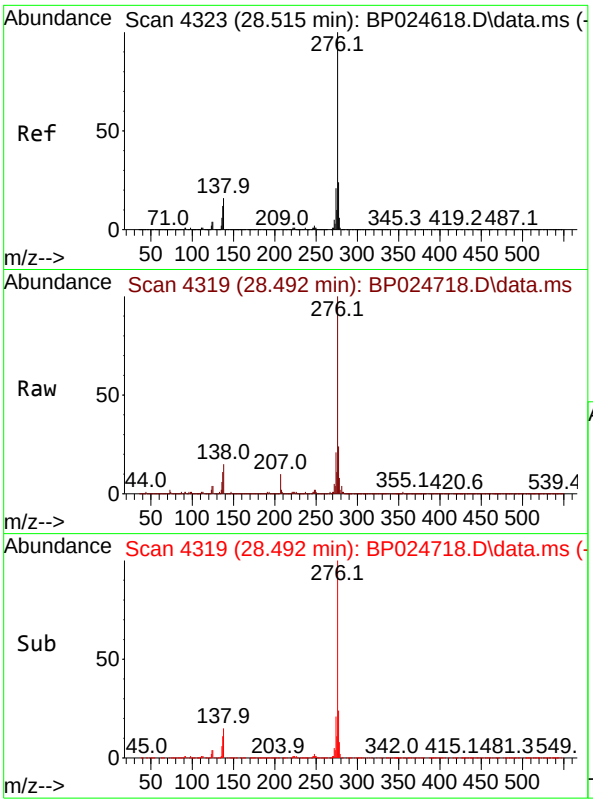


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.798 min Scan# 3691
Delta R.T. -0.006 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:264 Resp: 806749

Ion	Ratio	Lower	Upper
264	100		
260	23.0	18.7	28.1
265	22.2	17.0	25.6



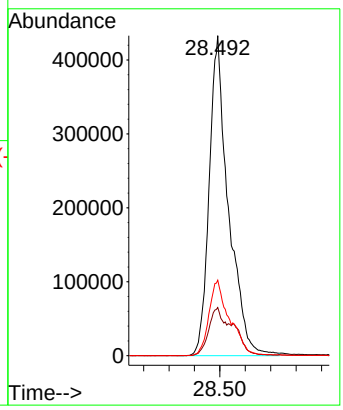


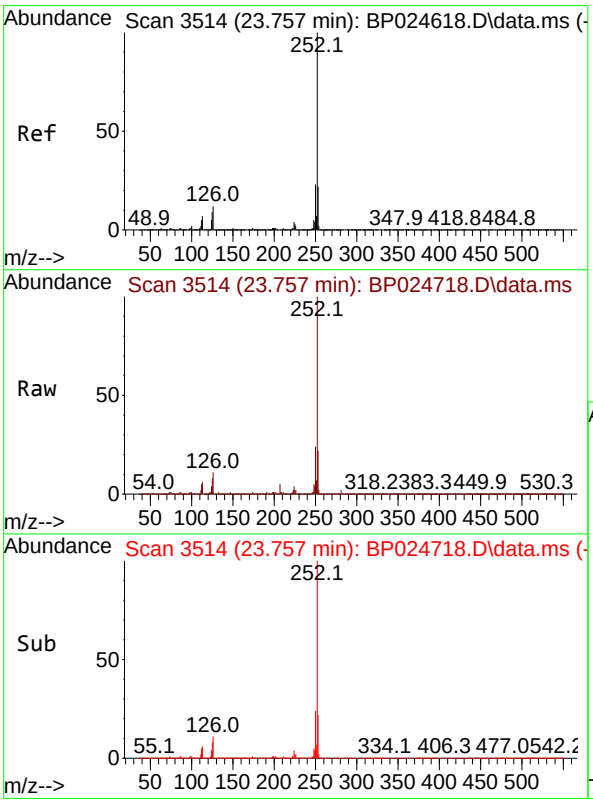
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.541 ng
RT: 28.492 min Scan# 4
Delta R.T. -0.023 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:276 Resp: 2269964

Ion	Ratio	Lower	Upper
276	100		
138	13.8	11.2	16.8
277	25.6	15.7	23.5#

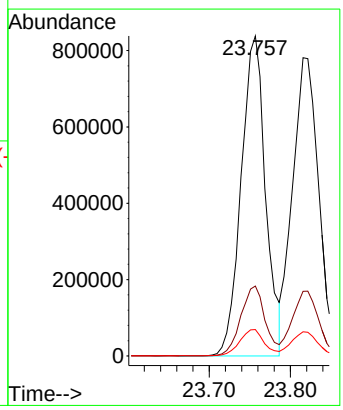


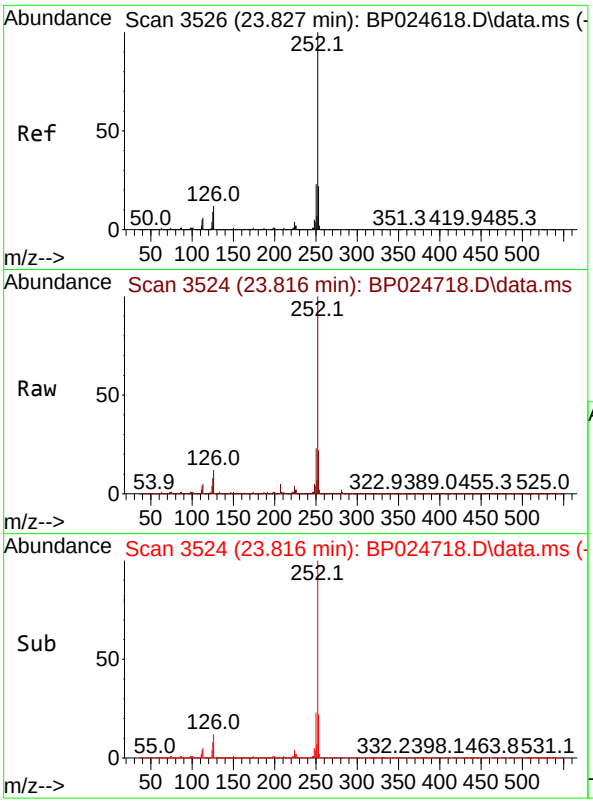


#88
Benzo(b)fluoranthene
Concen: 37.957 ng
RT: 23.757 min Scan# 3514
Delta R.T. 0.000 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:252 Resp: 1752739

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	8.2	7.5	11.3



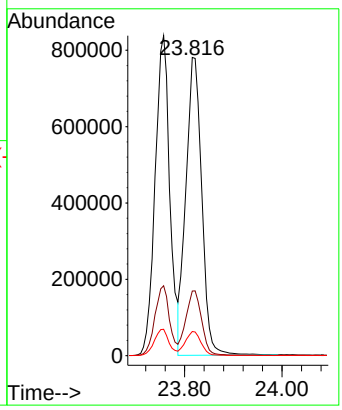


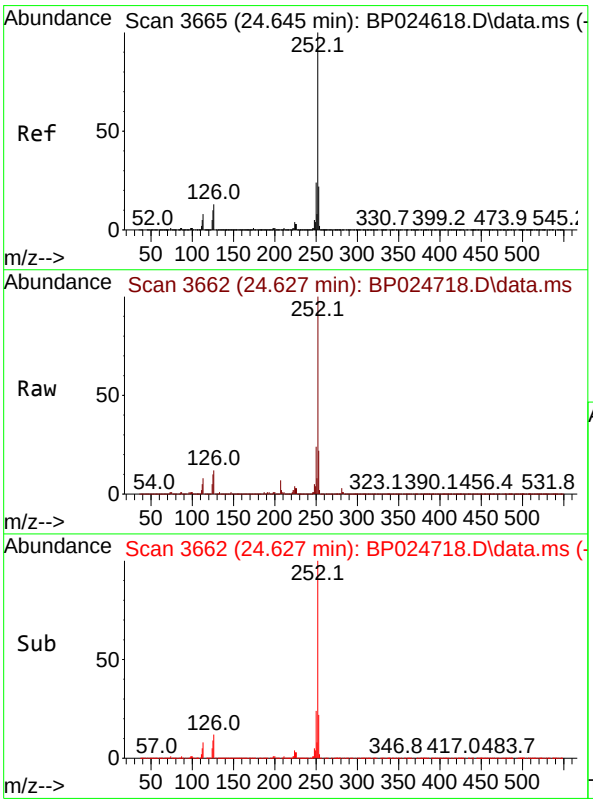
#89
Benzo(k)fluoranthene
Concen: 37.159 ng
RT: 23.816 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:252 Resp: 1768100

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.6	26.4
125	8.1	7.0	10.4

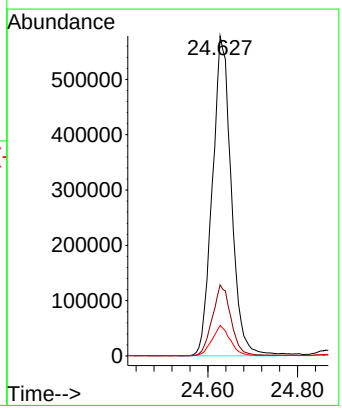


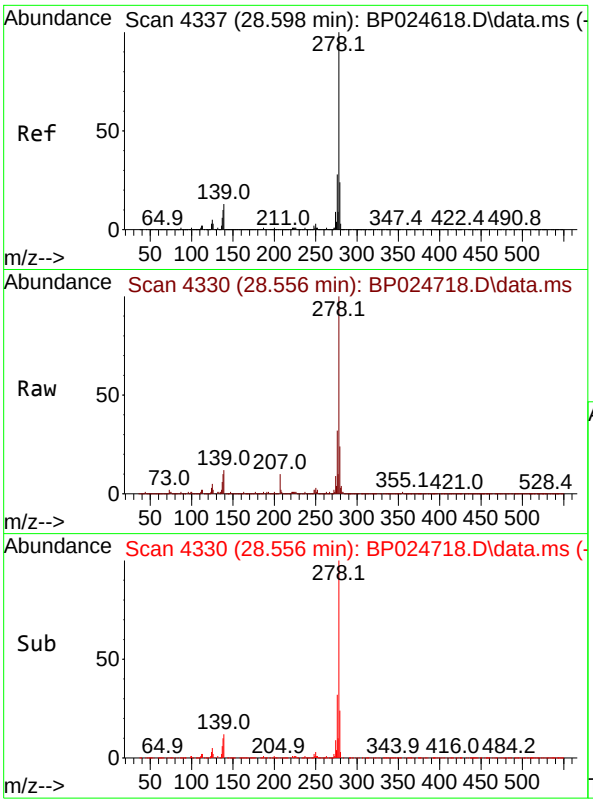


#90
Benzo(a)pyrene
Concen: 38.097 ng
RT: 24.627 min Scan# 3662
Delta R.T. -0.018 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:252 Resp: 1689563

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	9.5	8.1	12.1



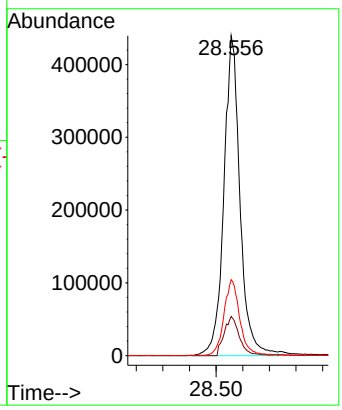


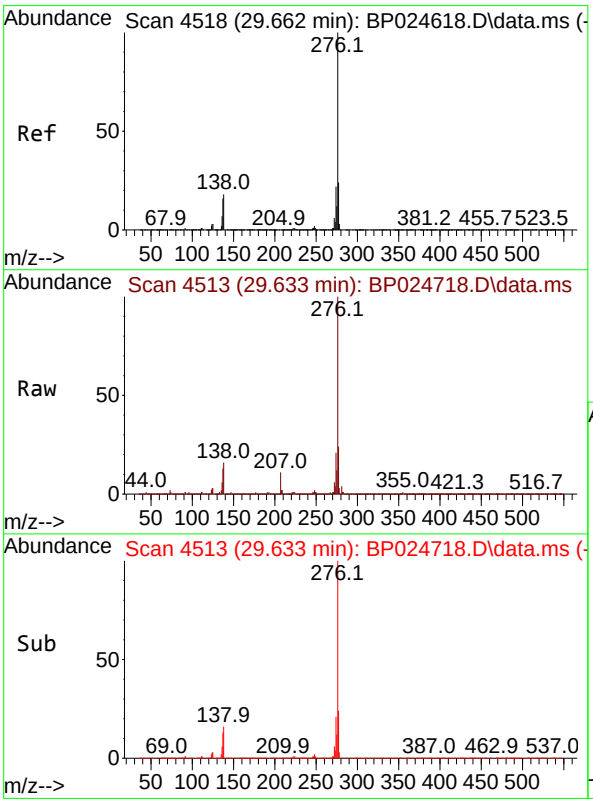
#91
Dibenzo(a,h)anthracene
Concen: 38.590 ng
RT: 28.556 min Scan# 4
Delta R.T. -0.041 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:278 Resp: 1849039

Ion	Ratio	Lower	Upper
278	100		
139	12.3	10.2	15.4
279	23.7	19.0	28.4

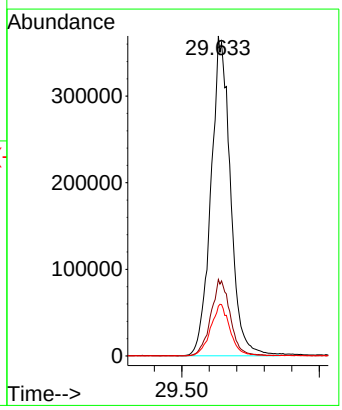




#92
Benzo(g,h,i)perylene
Concen: 38.090 ng
RT: 29.633 min Scan# 4513
Delta R.T. -0.029 min
Lab File: BP024718.D
Acq: 20 May 2025 22:04

Tgt Ion:276 Resp: 1814930

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.0	28.4
138	15.5	14.4	21.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024718.D
Acq On : 20 May 2025 22:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 01:27:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	91	0.00
2		1,4-Dioxane	0.549	0.467	14.9	85	0.00
3		Pyridine	1.218	1.044	14.3	80	0.00
4		n-Nitrosodimethylamine	0.538	0.471	12.5	83	0.00
5	S	2-Fluorophenol	1.169	1.092	6.6	90	0.00
6		Aniline	1.927	1.707	11.4	81	-0.01
7	S	Phenol-d6	1.492	1.356	9.1	84	0.00
8		2-Chlorophenol	1.327	1.268	4.4	89	0.00
9		Benzaldehyde	0.966	0.838	13.3	80	-0.01
10	C	Phenol	1.540	1.377	10.6	83	0.00
11		bis(2-Chloroethyl)ether	1.266	1.083	14.5	82	-0.01
12		1,3-Dichlorobenzene	1.527	1.436	6.0	91	0.00
13	C	1,4-Dichlorobenzene	1.536	1.453	5.4	90	-0.01
14		1,2-Dichlorobenzene	1.497	1.411	5.7	90	-0.01
15		Benzyl Alcohol	1.134	1.044	7.9	83	0.00
16		2,2'-oxybis(1-Chloropropane	1.516	1.280	15.6	80	-0.02
17		2-Methylphenol	1.105	1.025	7.2	85	0.00
18		Hexachloroethane	0.589	0.534	9.3	89	-0.01
19	P	n-Nitroso-di-n-propylamine	1.032	0.882	14.5	77	0.00
20		3+4-Methylphenols	1.503	1.386	7.8	84	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	86	-0.01
22		Acetophenone	0.500	0.457	8.6	82	0.00
23	S	Nitrobenzene-d5	0.396	0.354	10.6	80	0.00
24		Nitrobenzene	0.348	0.305	12.4	78	0.00
25		Isophorone	0.687	0.600	12.7	77	0.00
26	C	2-Nitrophenol	0.171	0.177	-3.5	89	-0.02
27		2,4-Dimethylphenol	0.301	0.290	3.7	84	0.00
28		bis(2-Chloroethoxy)methane	0.410	0.351	14.4	76	-0.01
29	C	2,4-Dichlorophenol	0.292	0.292	0.0	87	0.00
30		1,2,4-Trichlorobenzene	0.329	0.322	2.1	91	-0.01
31		Naphthalene	1.036	0.990	4.4	87	-0.01
32		Benzoic acid	0.181	0.175	3.3	79	0.01
33		4-Chloroaniline	0.418	0.409	2.2	84	0.00
34	C	Hexachlorobutadiene	0.213	0.212	0.5	93	-0.01
35		Caprolactam	0.106	0.103	2.8	82	0.00
36	C	4-Chloro-3-methylphenol	0.356	0.345	3.1	84	0.00
37		2-Methylnaphthalene	0.671	0.644	4.0	87	-0.01
38		1-Methylnaphthalene	0.718	0.689	4.0	86	-0.01
39	I	Acenaphthene-d10	1.000	1.000	0.0	85	-0.02
40		1,2,4,5-Tetrachlorobenzene	0.581	0.572	1.5	88	-0.01
41	P	Hexachlorocyclopentadiene	0.352	0.353	-0.3	84	-0.01
42	S	2,4,6-Tribromophenol	0.339	0.363	-7.1	95	0.00
43	C	2,4,6-Trichlorophenol	0.376	0.399	-6.1	91	0.00
44		2,4,5-Trichlorophenol	0.419	0.440	-5.0	92	0.00
45	S	2-Fluorobiphenyl	1.527	1.493	2.2	88	-0.01
46		1,1'-Biphenyl	1.478	1.442	2.4	89	-0.01
47		2-Chloronaphthalene	1.127	1.121	0.5	89	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024718.D
Acq On : 20 May 2025 22:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 01:27:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	0.334	0.327	2.1	83	-0.01
49		Acenaphthylene	1.886	1.808	4.1	85	-0.02
50		Dimethylphthalate	1.524	1.441	5.4	84	-0.01
51		2,6-Dinitrotoluene	0.322	0.307	4.7	84	-0.02
52	C	Acenaphthene	1.084	1.038	4.2	86	-0.02
53		3-Nitroaniline	0.329	0.314	4.6	78	-0.02
54	P	2,4-Dinitrophenol	0.169	0.154	8.9	76	0.00
55		Dibenzofuran	1.730	1.664	3.8	86	-0.01
56	P	4-Nitrophenol	0.250	0.339	-35.6#	112	0.02
57		2,4-Dinitrotoluene	0.454	0.455	-0.2	85	-0.02
58		Fluorene	1.410	1.366	3.1	87	-0.01
59		2,3,4,6-Tetrachlorophenol	0.388	0.398	-2.6	89	-0.01
60		Diethylphthalate	1.541	1.454	5.6	85	-0.01
61		4-Chlorophenyl-phenylether	0.703	0.687	2.3	89	-0.02
62		4-Nitroaniline	0.317	0.313	1.3	81	0.00
63		Azobenzene	1.318	1.182	10.3	80	-0.01
64	I	Phenanthrene-d10	1.000	1.000	0.0	84	-0.01
65		4,6-Dinitro-2-methylphenol	0.129	0.126	2.3	82	0.00
66	c	n-Nitrosodiphenylamine	0.614	0.608	1.0	86	-0.01
67		4-Bromophenyl-phenylether	0.236	0.239	-1.3	89	0.00
68		Hexachlorobenzene	0.299	0.304	-1.7	91	0.00
69		Atrazine	0.225	0.226	-0.4	88	0.00
70	C	Pentachlorophenol	0.168	0.252	-50.0#	124	0.00
71		Phenanthrene	1.112	1.068	4.0	86	0.00
72		Anthracene	1.119	1.103	1.4	86	0.00
73		Carbazole	1.012	0.988	2.4	83	0.00
74		Di-n-butylphthalate	1.302	1.289	1.0	86	0.00
75	C	Fluoranthene	1.300	1.253	3.6	84	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	83	-0.01
77		Benzidine	0.545	0.558	-2.4	83	0.00
78		Pyrene	1.198	1.170	2.3	85	0.00
79	S	Terphenyl-d14	1.166	1.166	0.0	87	0.00
80		Butylbenzylphthalate	0.533	0.540	-1.3	85	0.00
81		Benzo(a)anthracene	1.256	1.204	4.1	83	-0.01
82		3,3'-Dichlorobenzidine	0.466	0.494	-6.0	86	0.00
83		Chrysene	1.190	1.133	4.8	84	-0.01
84		Bis(2-ethylhexyl)phthalate	0.783	0.781	0.3	85	0.00
85	c	Di-n-octyl phthalate	1.281	1.349	-5.3	88	-0.01
86	I	Perylene-d12	1.000	1.000	0.0	87	0.00
87		Indeno(1,2,3-cd)pyrene	1.460	1.407	3.6	86	-0.02
88		Benzo(b)fluoranthene	1.145	1.086	5.2	85	0.00
89		Benzo(k)fluoranthene	1.180	1.096	7.1	83	-0.01
90	C	Benzo(a)pyrene	1.099	1.047	4.7	85	-0.02
91		Dibenzo(a,h)anthracene	1.188	1.146	3.5	85	-0.04
92		Benzo(g,h,i)perylene	1.181	1.125	4.7	85	-0.03

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024718.D
Acq On : 20 May 2025 22:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 01:27:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024718.D
Acq On : 20 May 2025 22:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 01:27:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	91	0.00
2		1,4-Dioxane	40.000	34.016	15.0	85	0.00
3		Pyridine	40.000	34.312	14.2	80	0.00
4		n-Nitrosodimethylamine	40.000	35.054	12.4	83	0.00
5	S	2-Fluorophenol	80.000	74.735	6.6	90	0.00
6		Aniline	40.000	35.441	11.4	81	-0.01
7	S	Phenol-d6	80.000	72.673	9.2	84	0.00
8		2-Chlorophenol	40.000	38.194	4.5	89	0.00
9		Benzaldehyde	40.000	34.708	13.2	80	-0.01
10	C	Phenol	40.000	35.753	10.6	83	0.00
11		bis(2-Chloroethyl)ether	40.000	34.217	14.5	82	-0.01
12		1,3-Dichlorobenzene	40.000	37.621	5.9	91	0.00
13	C	1,4-Dichlorobenzene	40.000	37.843	5.4	90	-0.01
14		1,2-Dichlorobenzene	40.000	37.708	5.7	90	-0.01
15		Benzyl Alcohol	40.000	36.812	8.0	83	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	33.787	15.5	80	-0.02
17		2-Methylphenol	40.000	37.108	7.2	85	0.00
18		Hexachloroethane	40.000	36.268	9.3	89	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	34.163	14.6	77	0.00
20		3+4-Methylphenols	40.000	36.887	7.8	84	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	86	-0.01
22		Acetophenone	40.000	36.567	8.6	82	0.00
23	S	Nitrobenzene-d5	80.000	71.601	10.5	80	0.00
24		Nitrobenzene	40.000	34.974	12.6	78	0.00
25		Isophorone	40.000	34.945	12.6	77	0.00
26	C	2-Nitrophenol	40.000	41.534	-3.8	89	-0.02
27		2,4-Dimethylphenol	40.000	38.501	3.7	84	0.00
28		bis(2-Chloroethoxy)methane	40.000	34.237	14.4	76	-0.01
29	C	2,4-Dichlorophenol	40.000	40.085	-0.2	87	0.00
30		1,2,4-Trichlorobenzene	40.000	39.166	2.1	91	-0.01
31		Naphthalene	40.000	38.195	4.5	87	-0.01
32		Benzoic acid	40.000	35.667	10.8	79	0.01
33		4-Chloroaniline	40.000	39.153	2.1	84	0.00
34	C	Hexachlorobutadiene	40.000	39.924	0.2	93	-0.01
35		Caprolactam	40.000	39.146	2.1	82	0.00
36	C	4-Chloro-3-methylphenol	40.000	38.826	2.9	84	0.00
37		2-Methylnaphthalene	40.000	38.402	4.0	87	-0.01
38		1-Methylnaphthalene	40.000	38.364	4.1	86	-0.01
39	I	Acenaphthene-d10	20.000	20.000	0.0	85	-0.02
40		1,2,4,5-Tetrachlorobenzene	40.000	39.405	1.5	88	-0.01
41	P	Hexachlorocyclopentadiene	40.000	40.091	-0.2	84	-0.01
42	S	2,4,6-Tribromophenol	80.000	85.567	-7.0	95	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.455	-6.1	91	0.00
44		2,4,5-Trichlorophenol	40.000	41.995	-5.0	92	0.00
45	S	2-Fluorobiphenyl	80.000	78.240	2.2	88	-0.01
46		1,1'-Biphenyl	40.000	39.030	2.4	89	-0.01
47		2-Chloronaphthalene	40.000	39.767	0.6	89	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024718.D
Acq On : 20 May 2025 22:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 01:27:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	39.247	1.9	83	-0.01
49		Acenaphthylene	40.000	38.344	4.1	85	-0.02
50		Dimethylphthalate	40.000	37.801	5.5	84	-0.01
51		2,6-Dinitrotoluene	40.000	38.189	4.5	84	-0.02
52	C	Acenaphthene	40.000	38.281	4.3	86	-0.02
53		3-Nitroaniline	40.000	38.181	4.5	78	-0.02
54	P	2,4-Dinitrophenol	40.000	34.279	14.3	76	0.00
55		Dibenzofuran	40.000	38.480	3.8	86	-0.01
56	P	4-Nitrophenol	40.000	49.318	-23.3	112	0.02
57		2,4-Dinitrotoluene	40.000	40.118	-0.3	85	-0.02
58		Fluorene	40.000	38.752	3.1	87	-0.01
59		2,3,4,6-Tetrachlorophenol	40.000	40.990	-2.5	89	-0.01
60		Diethylphthalate	40.000	37.754	5.6	85	-0.01
61		4-Chlorophenyl-phenylether	40.000	39.049	2.4	89	-0.02
62		4-Nitroaniline	40.000	39.479	1.3	81	0.00
63		Azobenzene	40.000	35.857	10.4	80	-0.01
64	I	Phenanthrene-d10	20.000	20.000	0.0	84	-0.01
65		4,6-Dinitro-2-methylphenol	40.000	38.869	2.8	82	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.573	1.1	86	-0.01
67		4-Bromophenyl-phenylether	40.000	40.631	-1.6	89	0.00
68		Hexachlorobenzene	40.000	40.587	-1.5	91	0.00
69		Atrazine	40.000	40.239	-0.6	88	0.00
70	C	Pentachlorophenol	40.000	60.045	-50.1#	124	0.00
71		Phenanthrene	40.000	38.410	4.0	86	0.00
72		Anthracene	40.000	39.430	1.4	86	0.00
73		Carbazole	40.000	39.035	2.4	83	0.00
74		Di-n-butylphthalate	40.000	39.599	1.0	86	0.00
75	C	Fluoranthene	40.000	38.550	3.6	84	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	83	-0.01
77		Benzidine	40.000	40.966	-2.4	83	0.00
78		Pyrene	40.000	39.038	2.4	85	0.00
79	S	Terphenyl-d14	80.000	80.005	-0.0	87	0.00
80		Butylbenzylphthalate	40.000	40.524	-1.3	85	0.00
81		Benzo(a)anthracene	40.000	38.339	4.2	83	-0.01
82		3,3'-Dichlorobenzidine	40.000	42.389	-6.0	86	0.00
83		Chrysene	40.000	38.059	4.9	84	-0.01
84		Bis(2-ethylhexyl)phthalate	40.000	39.893	0.3	85	0.00
85	c	Di-n-octyl phthalate	40.000	42.130	-5.3	88	-0.01
86	I	Perylene-d12	20.000	20.000	0.0	87	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	38.541	3.6	86	-0.02
88		Benzo(b)fluoranthene	40.000	37.957	5.1	85	0.00
89		Benzo(k)fluoranthene	40.000	37.159	7.1	83	-0.01
90	C	Benzo(a)pyrene	40.000	38.097	4.8	85	-0.02
91		Dibenzo(a,h)anthracene	40.000	38.590	3.5	85	-0.04
92		Benzo(g,h,i)perylene	40.000	38.090	4.8	85	-0.03

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024718.D
Acq On : 20 May 2025 22:04
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 17 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 01:27:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM Case No.: Q1984 SAS No.: Q1984 SDG No.: Q1984

Instrument ID: BNA_P Calibration Date/Time: 05/21/2025 00:47

Lab File ID: BP024720.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:41 15:26

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.169	1.054		-9.8	
Phenol-d6	1.492	1.367		-8.4	
Nitrobenzene-d5	0.396	0.340		-14.1	
Naphthalene	1.036	0.994		-4.1	
2-Methylnaphthalene	0.671	0.647		-3.6	
2-Fluorobiphenyl	1.527	1.549		1.4	
Acenaphthylene	1.886	1.829		-3.0	
Acenaphthene	1.084	1.052		-3.0	20.0
Fluorene	1.410	1.407		-0.2	
2,4,6-Tribromophenol	0.339	0.379		11.8	
Phenanthrene	1.112	1.079		-3.0	
Anthracene	1.119	1.095		-2.1	
Fluoranthene	1.300	1.301		0.1	20.0
Pyrene	1.198	1.145		-4.4	
Terphenyl-d14	1.166	1.161		-0.4	
Benzo(a)anthracene	1.256	1.219		-2.9	
Chrysene	1.190	1.152		-3.2	
Benzo(b)fluoranthene	1.145	1.117		-2.4	
Benzo(k)fluoranthene	1.180	1.108		-6.1	
Benzo(a)pyrene	1.099	1.069		-2.7	20.0
Indeno(1,2,3-cd)pyrene	1.460	1.442		-1.2	
Dibenzo(a,h)anthracene	1.188	1.185		-0.3	
Benzo(g,h,i)perylene	1.181	1.149		-2.7	

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024720.D
Acq On : 21 May 2025 00:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: May 21 01:28:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.652	152	101301	20.000	ng		-0.01
21) Naphthalene-d8	10.422	136	430577	20.000	ng		-0.01
39) Acenaphthene-d10	14.281	164	274136	20.000	ng		-0.02
64) Phenanthrene-d10	17.075	188	569223	20.000	ng		-0.02
76) Chrysene-d12	21.504	240	664451	20.000	ng		-0.02
86) Perylene-d12	24.768	264	794762	20.000	ng		-0.04
System Monitoring Compounds							
5) 2-Fluorophenol	5.287	112	427008	72.096	ng		0.00
7) Phenol-d6	6.857	99	553972	73.286	ng		0.00
23) Nitrobenzene-d5	8.799	82	585419	68.697	ng		-0.01
42) 2,4,6-Tribromophenol	15.804	330	415657	89.439	ng		0.00
45) 2-Fluorobiphenyl	12.892	172	1698923	81.193	ng		-0.01
79) Terphenyl-d14	19.798	244	3086226	79.644	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.222	88	95318	34.273	ng		97
3) Pyridine	3.616	79	207750	33.688	ng		93
4) n-Nitrosodimethylamine	3.528	42	99424	36.519	ng		83
6) Aniline	6.993	93	345939	35.447	ng		98
8) 2-Chlorophenol	7.234	128	254469	37.847	ng		98
9) Benzaldehyde	6.810	77	175568	35.880	ng		99
10) Phenol	6.887	94	277649	35.587	ng		97
11) bis(2-Chloroethyl)ether	7.087	93	216686	33.800	ng		99
12) 1,3-Dichlorobenzene	7.540	146	292684	37.836	ng		99
13) 1,4-Dichlorobenzene	7.687	146	297553	38.245	ng		99
14) 1,2-Dichlorobenzene	7.999	146	284713	37.555	ng		100
15) Benzyl Alcohol	7.904	79	215093	37.445	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.169	45	266715	34.740	ng		99
17) 2-Methylphenol	8.110	107	210619	37.639	ng		98
18) Hexachloroethane	8.716	117	106031	35.564	ng		99
19) n-Nitroso-di-n-propyla...	8.451	70	171754	32.847	ng		95
20) 3+4-Methylphenols	8.440	107	265948	34.939	ng		97
22) Acetophenone	8.469	105	372737	34.655	ng	#	97
24) Nitrobenzene	8.846	77	254406	33.924	ng		94
25) Isophorone	9.363	82	495709	33.534	ng		97
26) 2-Nitrophenol	9.551	139	146955	39.990	ng		97
27) 2,4-Dimethylphenol	9.622	122	244254	37.699	ng		97
28) bis(2-Chloroethoxy)met...	9.840	93	301041	34.087	ng		98
29) 2,4-Dichlorophenol	10.093	162	246970	39.336	ng		98
30) 1,2,4-Trichlorobenzene	10.287	180	279384	39.488	ng		99
31) Naphthalene	10.469	128	855993	38.363	ng		100
32) Benzoic acid	9.793	122	140333	33.740	ng		98
33) 4-Chloroaniline	10.593	127	356244	39.566	ng		98
34) Hexachlorobutadiene	10.751	225	186367	40.662	ng		98
35) Caprolactam	11.387	113	86473	38.067	ng		98
36) 4-Chloro-3-methylphenol	11.740	107	297380	38.840	ng		99
37) 2-Methylnaphthalene	12.081	142	557293	38.573	ng		99
38) 1-Methylnaphthalene	12.304	142	594355	38.448	ng		99
40) 1,2,4,5-Tetrachloroben...	12.457	216	328274	41.237	ng		99
41) Hexachlorocyclopentadiene	12.428	237	206062	42.689	ng		99
43) 2,4,6-Trichlorophenol	12.710	196	215634	41.821	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024720.D
Acq On : 21 May 2025 00:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: May 21 01:28:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

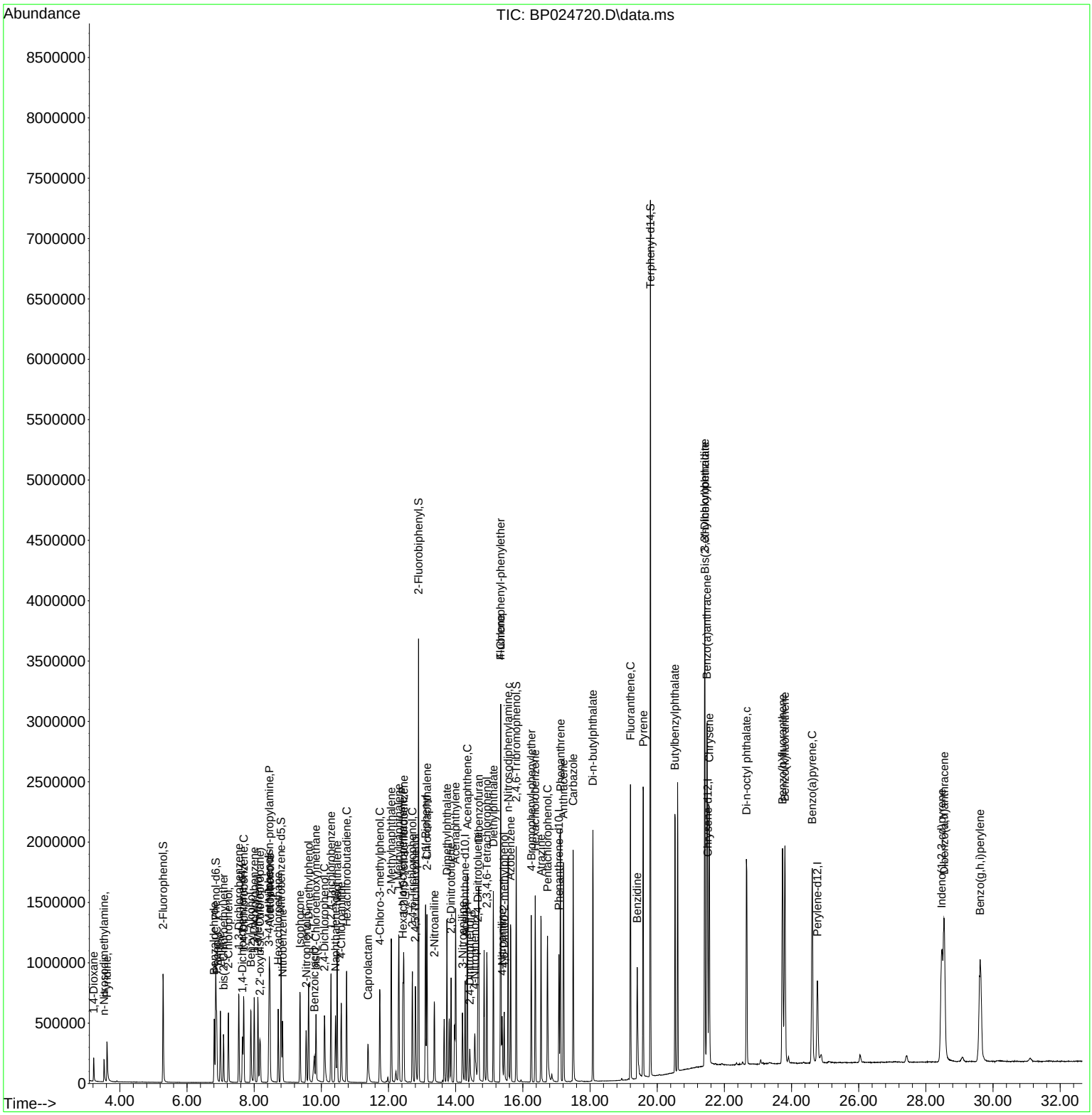
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	239708	41.765	ng		97
46) 1,1'-Biphenyl	13.104	154	801201	39.543	ng		99
47) 2-Chloronaphthalene	13.145	162	619466	40.098	ng		98
48) 2-Nitroaniline	13.363	65	182018	39.796	ng		98
49) Acenaphthylene	13.998	152	1003020	38.796	ng		99
50) Dimethylphthalate	13.739	163	808499	38.694	ng		100
51) 2,6-Dinitrotoluene	13.863	165	178166	40.374	ng		97
52) Acenaphthene	14.345	154	576651	38.798	ng		100
53) 3-Nitroaniline	14.204	138	175524	38.955	ng		94
54) 2,4-Dinitrophenol	14.422	184	86660	35.052	ng		97
55) Dibenzofuran	14.686	168	899912	37.960	ng		99
56) 4-Nitrophenol	14.569	139	179706	47.863	ng		95
57) 2,4-Dinitrotoluene	14.663	165	250096	40.200	ng		98
58) Fluorene	15.339	166	771386	39.905	ng		99
59) 2,3,4,6-Tetrachlorophenol	14.928	232	215401	40.457	ng		98
60) Diethylphthalate	15.122	149	817797	38.724	ng		99
61) 4-Chlorophenyl-phenyle...	15.339	204	389358	40.389	ng		99
62) 4-Nitroaniline	15.386	138	165759	38.099	ng		97
63) Azobenzene	15.633	77	675333	37.381	ng		96
65) 4,6-Dinitro-2-methylph...	15.445	198	141275	38.423	ng		98
66) n-Nitrosodiphenylamine	15.563	169	680874	38.942	ng		98
67) 4-Bromophenyl-phenylether	16.251	248	275214	41.031	ng		97
68) Hexachlorobenzene	16.369	284	349866	41.050	ng		96
69) Atrazine	16.545	200	258379	40.324	ng		99
70) Pentachlorophenol	16.733	266	289776	60.567	ng		100
71) Phenanthrene	17.122	178	1228776	38.831	ng		100
72) Anthracene	17.210	178	1246958	39.167	ng		100
73) Carbazole	17.498	167	1148299	39.849	ng		99
74) Di-n-butylphthalate	18.086	149	1462603	39.466	ng		100
75) Fluoranthene	19.204	202	1481148	40.042	ng		99
77) Benzidine	19.404	184	774737	42.810	ng		100
78) Pyrene	19.586	202	1521266	38.211	ng		100
80) Butylbenzylphthalate	20.527	149	695026	39.253	ng		95
81) Benzo(a)anthracene	21.480	228	1619787	38.824	ng		99
82) 3,3'-Dichlorobenzidine	21.416	252	660583	42.628	ng		100
83) Chrysene	21.551	228	1531024	38.711	ng		100
84) Bis(2-ethylhexyl)phtha...	21.421	149	1025677	39.411	ng		99
85) Di-n-octyl phthalate	22.657	149	1717029	40.346	ng		100
87) Indeno(1,2,3-cd)pyrene	28.474	276	2292658	39.513	ng	#	89
88) Benzo(b)fluoranthene	23.733	252	1775675	39.034	ng		99
89) Benzo(k)fluoranthene	23.804	252	1761521	37.579	ng		99
90) Benzo(a)pyrene	24.615	252	1698469	38.875	ng		99
91) Dibenzo(a,h)anthracene	28.545	278	1883487	39.902	ng		98
92) Benzo(g,h,i)perylene	29.615	276	1825835	38.896	ng		99

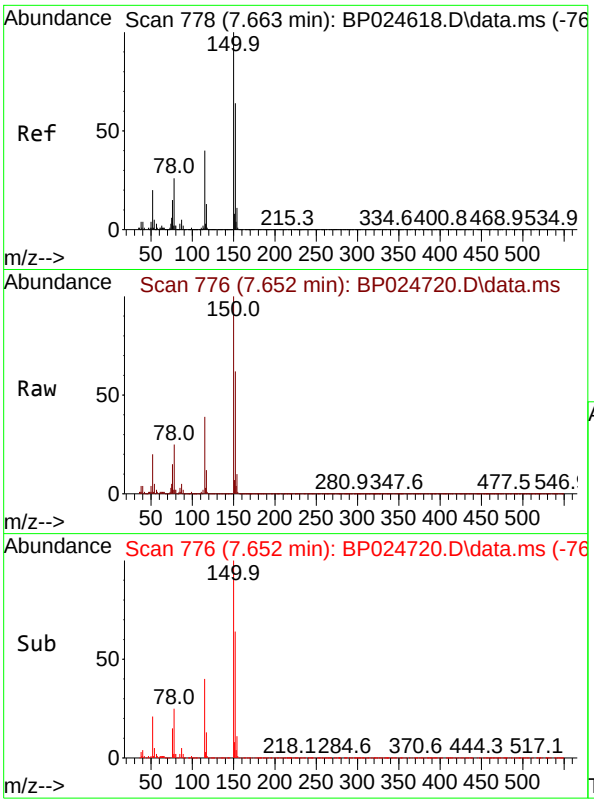
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024720.D
Acq On : 21 May 2025 00:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Quant Time: May 21 01:28:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



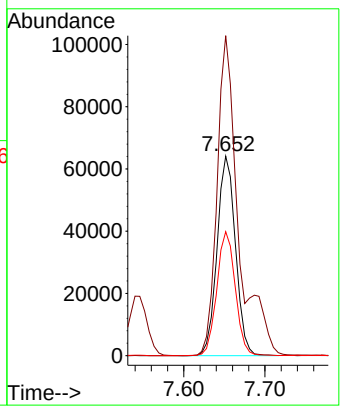


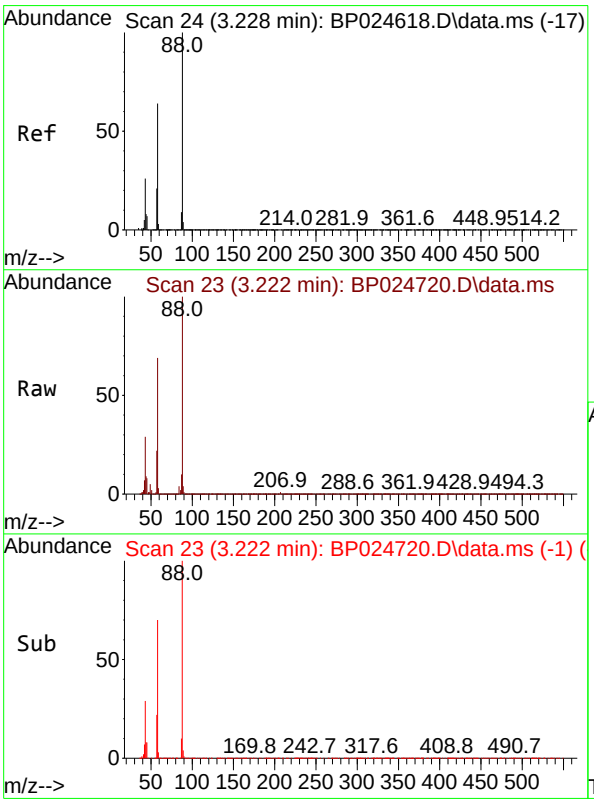
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.652 min Scan# 7
Delta R.T. -0.011 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 101301

Ion	Ratio	Lower	Upper
152	100		
150	160.4	125.9	188.9
115	62.1	50.1	75.1

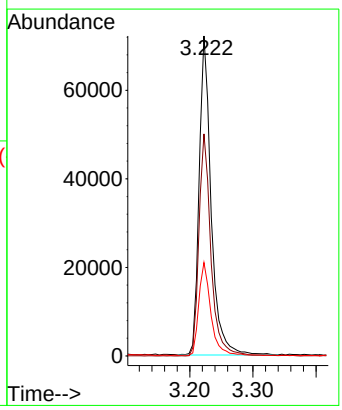


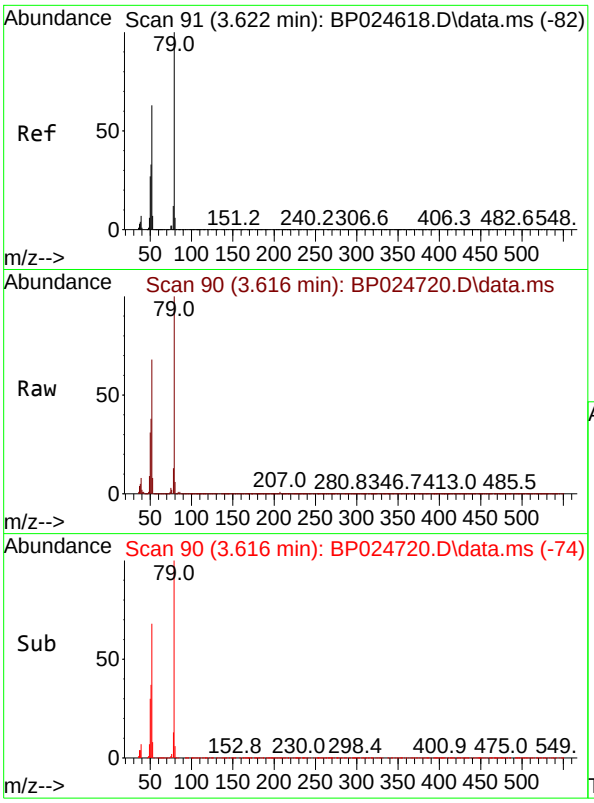


#2
1,4-Dioxane
Concen: 34.273 ng
RT: 3.222 min Scan# 23
Delta R.T. -0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion: 88 Resp: 95318

Ion	Ratio	Lower	Upper
88	100		
58	69.3	54.0	81.0
43	29.4	21.4	32.0



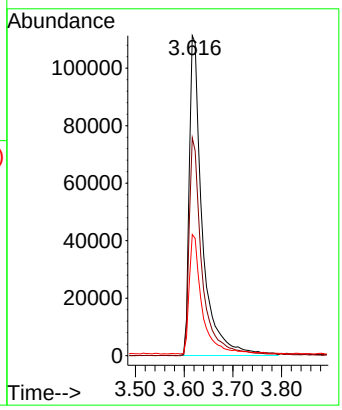


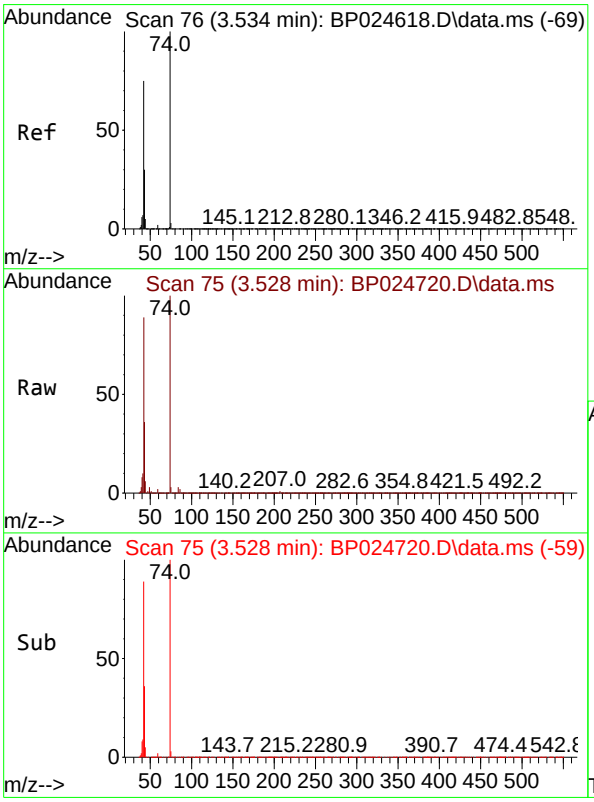
#3
Pyridine
Concen: 33.688 ng
RT: 3.616 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 207750

Ion	Ratio	Lower	Upper
79	100		
52	68.1	50.2	75.2
51	37.9	26.8	40.2

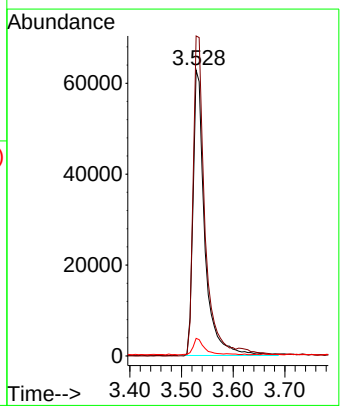


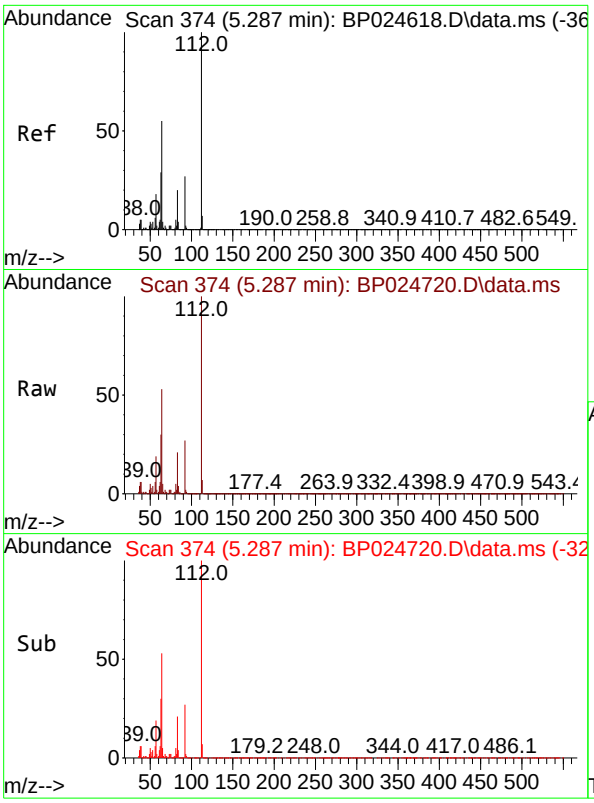


#4
n-Nitrosodimethylamine
Concen: 36.519 ng
RT: 3.528 min Scan# 75
Delta R.T. -0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion: 42 Resp: 99424

Ion	Ratio	Lower	Upper
42	100		
74	112.0	106.2	159.2
44	6.2	5.4	8.2



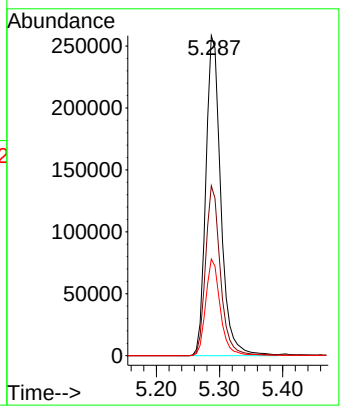


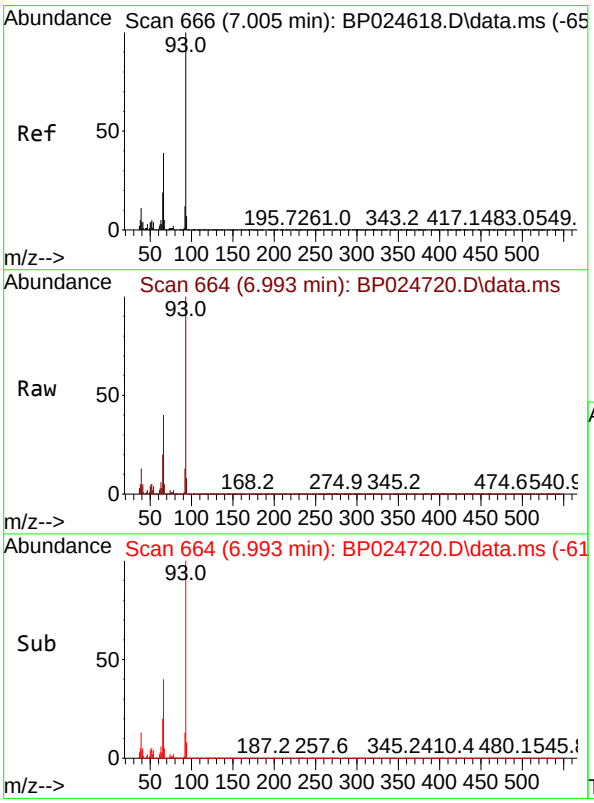
#5
2-Fluorophenol
Concen: 72.096 ng
RT: 5.287 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 427008

Ion	Ratio	Lower	Upper
112	100		
64	53.1	44.1	66.1
63	30.2	23.5	35.3

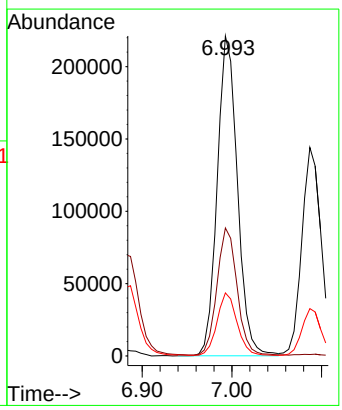


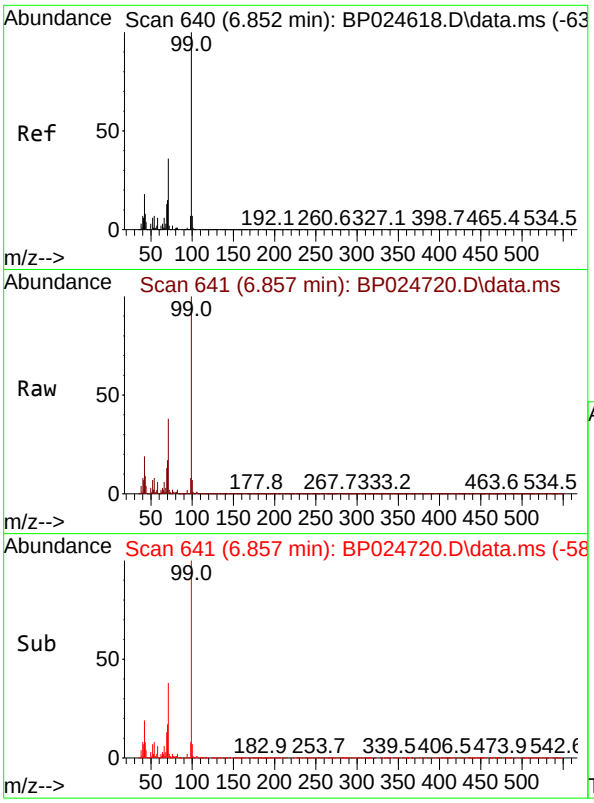


#6
Aniline
Concen: 35.447 ng
RT: 6.993 min Scan# 664
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion: 93 Resp: 345939

Ion	Ratio	Lower	Upper
93	100		
66	40.0	31.0	46.6
65	19.7	15.5	23.3



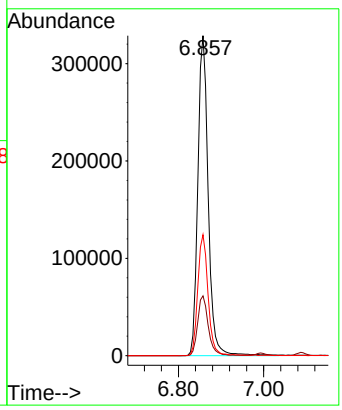


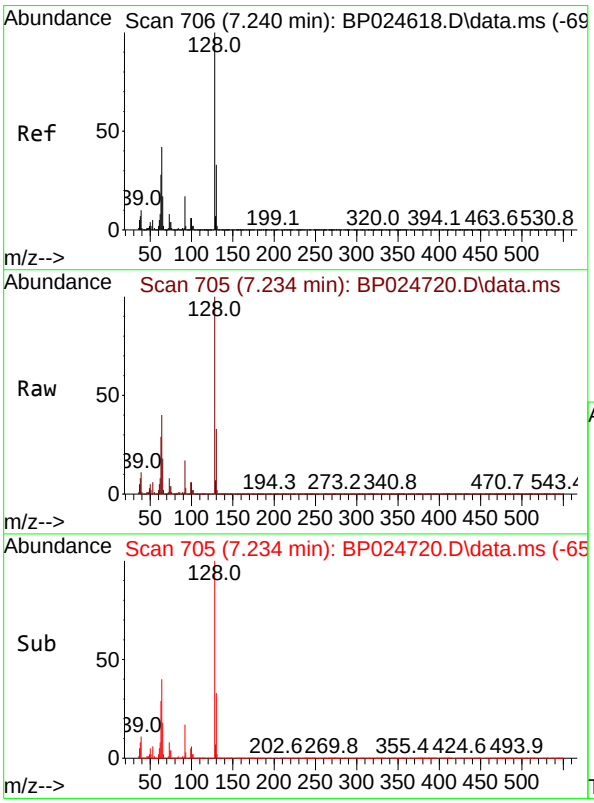
#7
Phenol-d6
Concen: 73.286 ng
RT: 6.857 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 553972

Ion	Ratio	Lower	Upper
99	100		
42	18.7	14.4	21.6
71	37.8	29.2	43.8

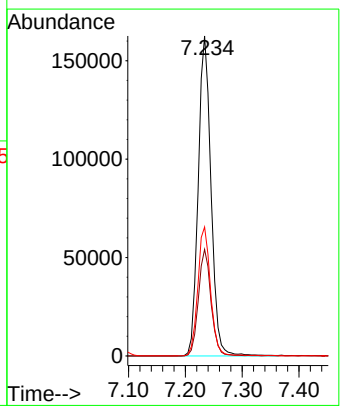


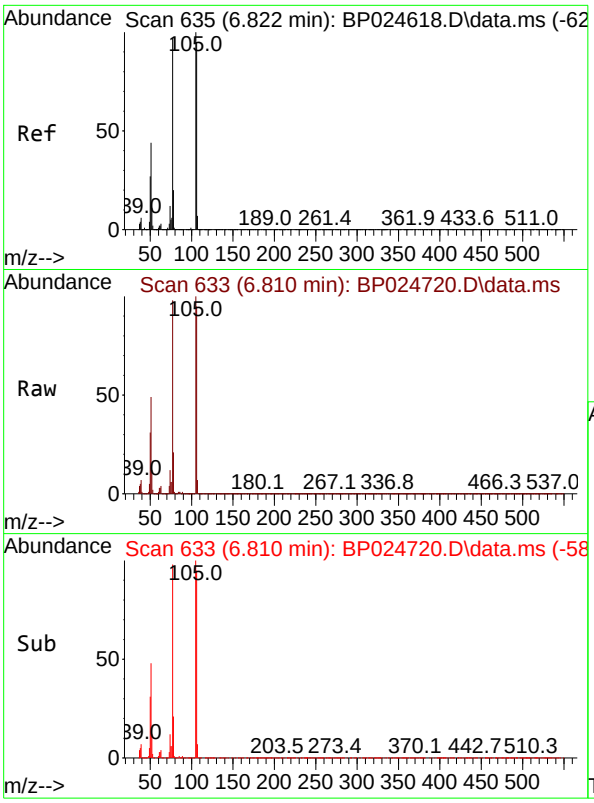


#8
2-Chlorophenol
Concen: 37.847 ng
RT: 7.234 min Scan# 705
Delta R.T. -0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:128 Resp: 254469

Ion	Ratio	Lower	Upper
128	100		
130	33.3	13.0	53.0
64	40.3	22.3	62.3



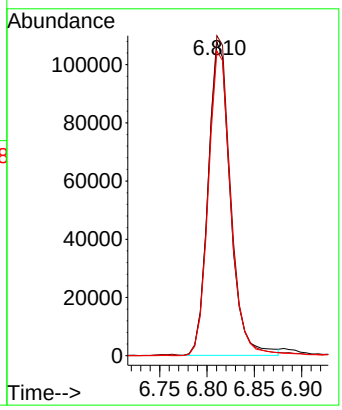


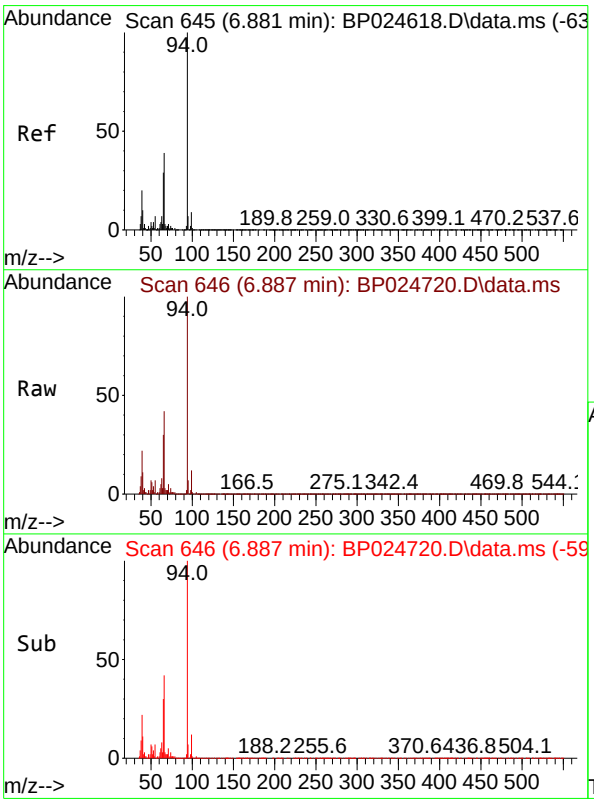
#9
Benzaldehyde
Concen: 35.880 ng
RT: 6.810 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 175568

Ion	Ratio	Lower	Upper
77	100		
105	102.1	83.3	123.3
106	97.1	78.0	118.0

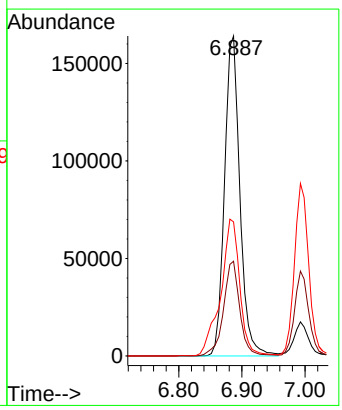


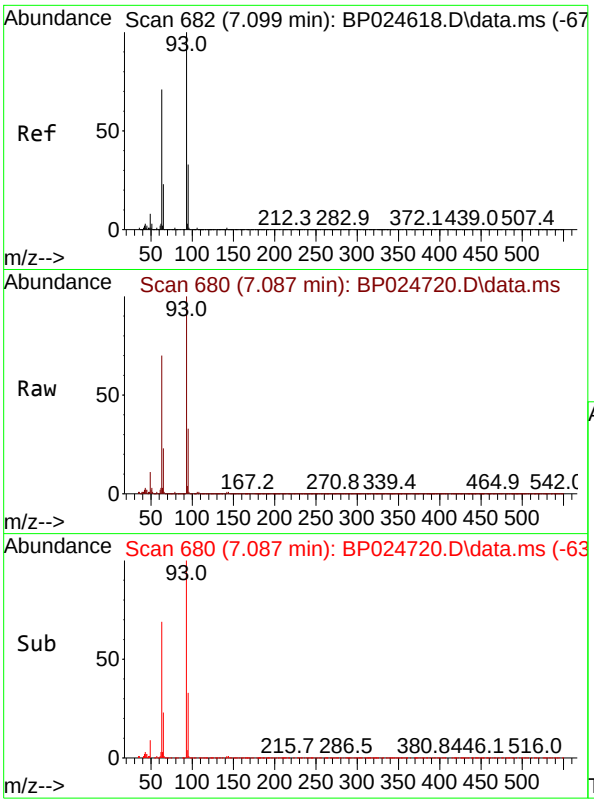


#10
Phenol
Concen: 35.587 ng
RT: 6.887 min Scan# 646
Delta R.T. 0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion: 94 Resp: 277649

Ion	Ratio	Lower	Upper
94	100		
65	29.6	8.7	48.7
66	41.9	19.4	59.4



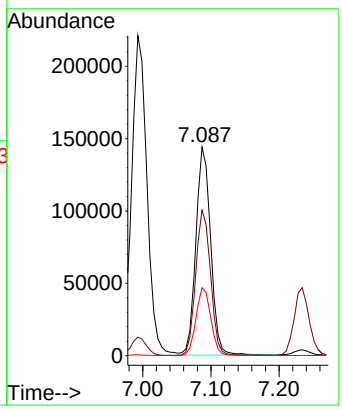


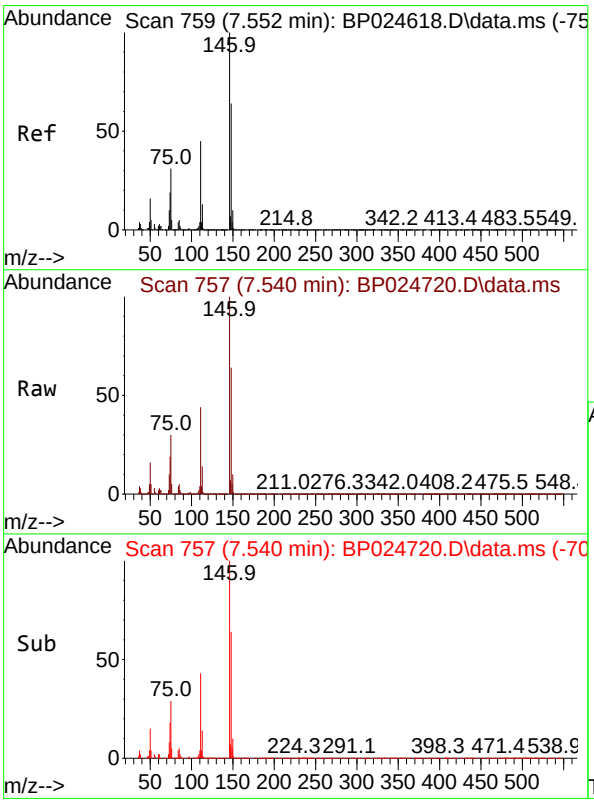
#11
bis(2-Chloroethyl)ether
Concen: 33.800 ng
RT: 7.087 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 216686

Ion	Ratio	Lower	Upper
93	100		
63	69.8	50.6	90.6
95	32.6	12.9	52.9

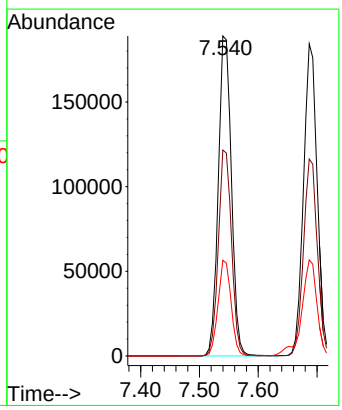


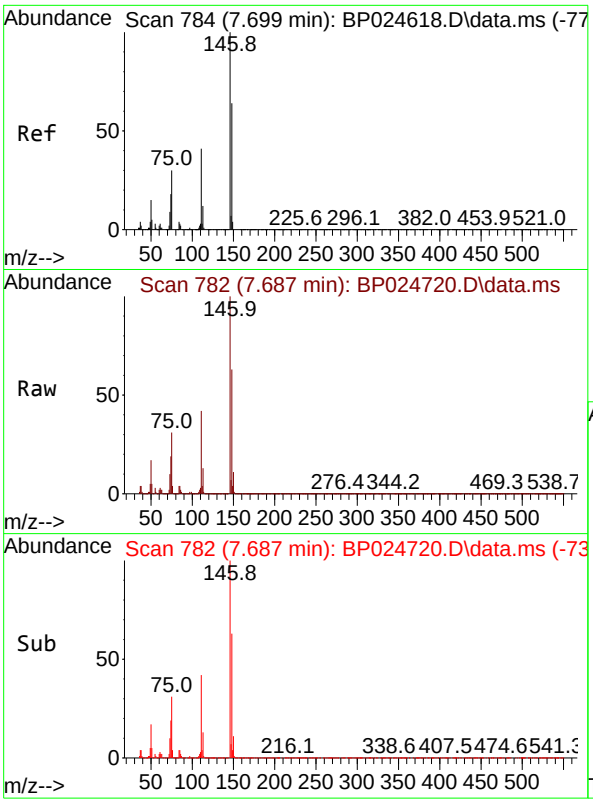


#12
1,3-Dichlorobenzene
Concen: 37.836 ng
RT: 7.540 min Scan# 757
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:146 Resp: 292684

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.4	77.2
75	29.9	25.2	37.8



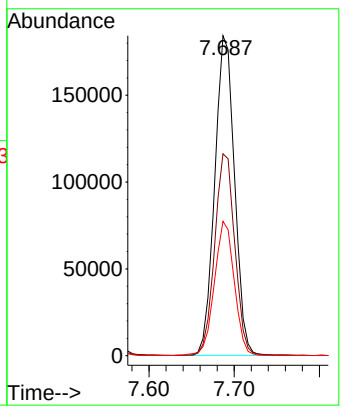


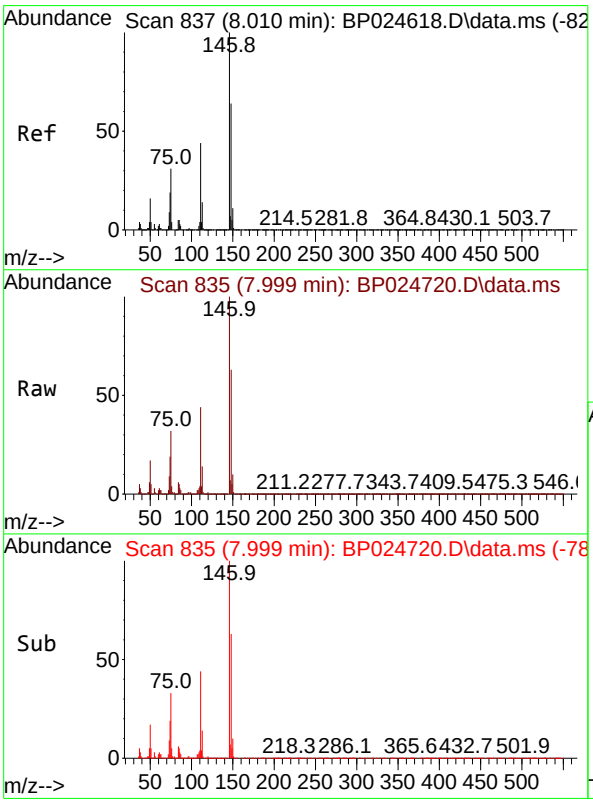
#13
1,4-Dichlorobenzene
Concen: 38.245 ng
RT: 7.687 min Scan# 7
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 297553

Ion	Ratio	Lower	Upper
146	100		
148	63.1	51.0	76.6
111	42.0	33.0	49.6

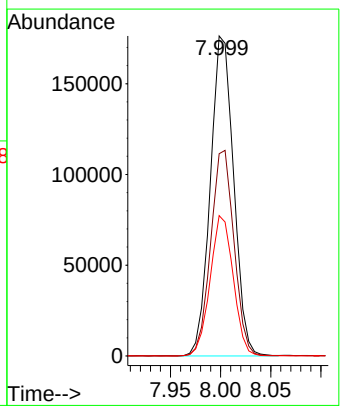


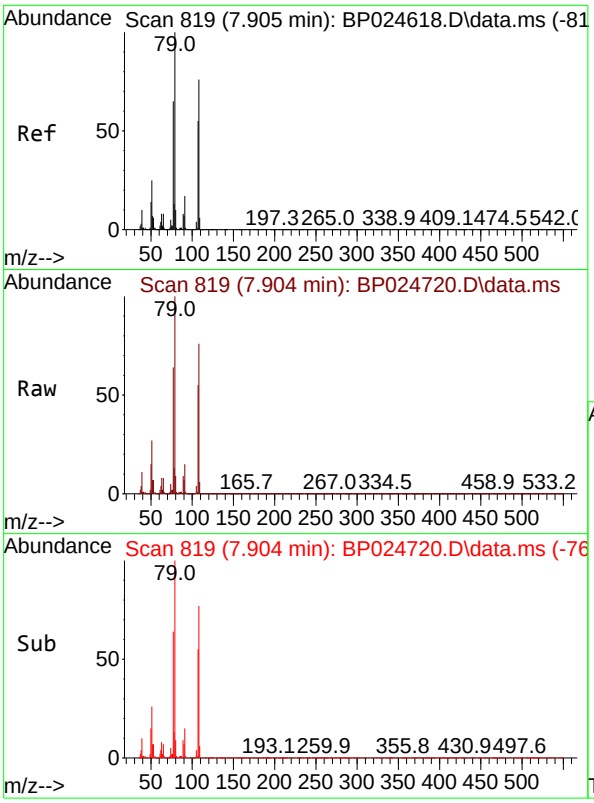


#14
1,2-Dichlorobenzene
Concen: 37.555 ng
RT: 7.999 min Scan# 835
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:146 Resp: 284713

Ion	Ratio	Lower	Upper
146	100		
148	63.2	51.0	76.4
111	43.8	35.2	52.8



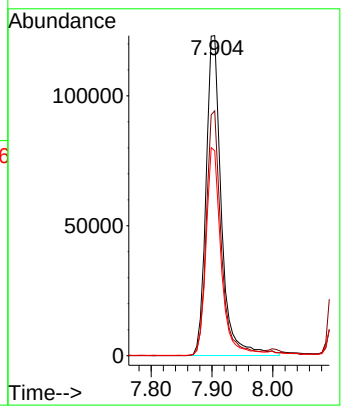


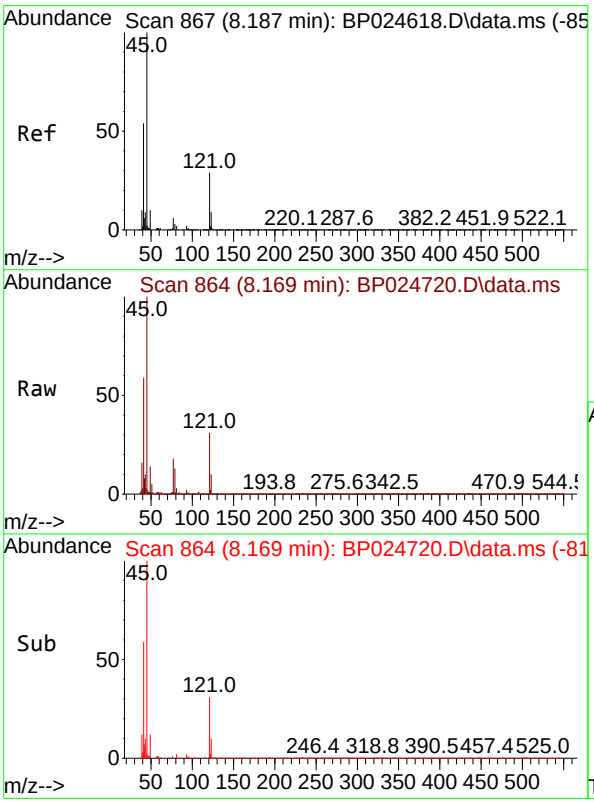
#15
Benzyl Alcohol
Concen: 37.445 ng
RT: 7.904 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 215093

Ion	Ratio	Lower	Upper
79	100		
108	76.5	60.8	91.2
77	64.1	51.9	77.9

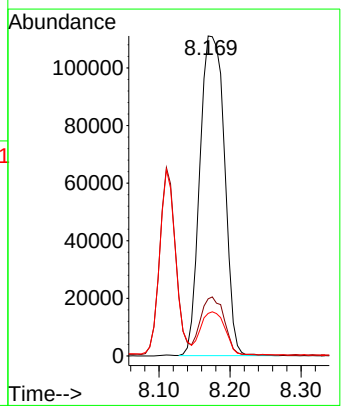


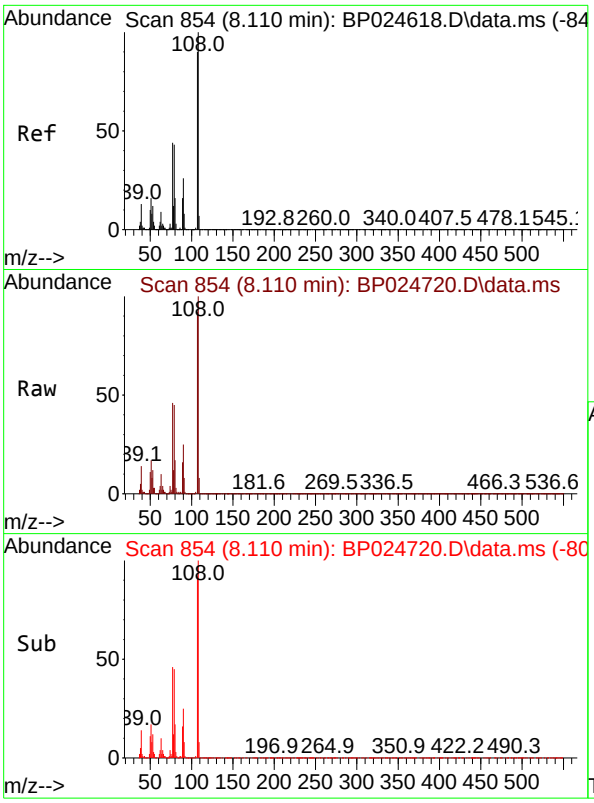


#16
2,2'-oxybis(1-Chloropropane)
Concen: 34.740 ng
RT: 8.169 min Scan# 864
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion: 45 Resp: 266715

Ion	Ratio	Lower	Upper
45	100		
77	17.8	0.0	37.7
79	13.3	0.0	34.0



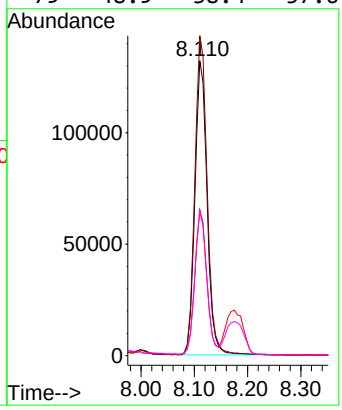


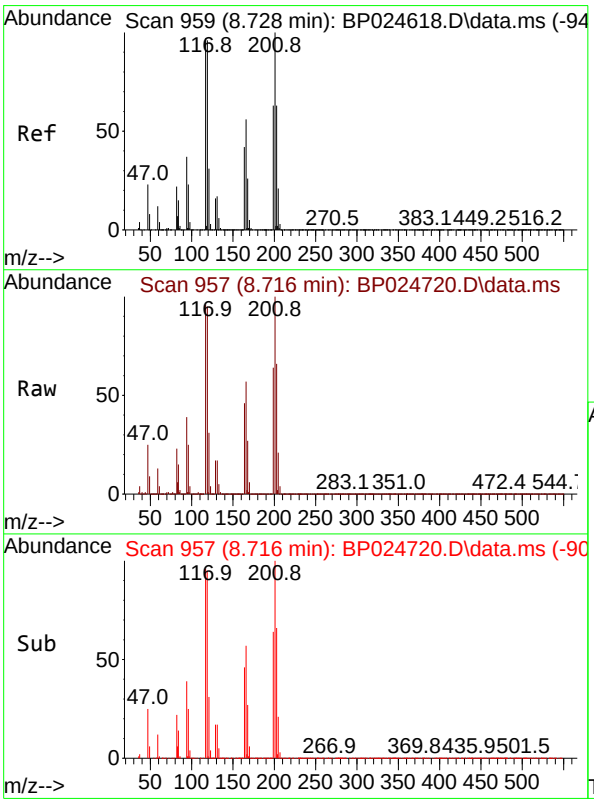
#17
2-Methylphenol
Concen: 37.639 ng
RT: 8.110 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 210619

Ion	Ratio	Lower	Upper
107	100		
108	108.5	88.9	133.3
77	49.4	39.0	58.6
79	48.9	38.4	57.6

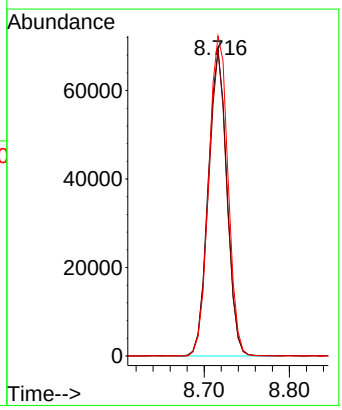


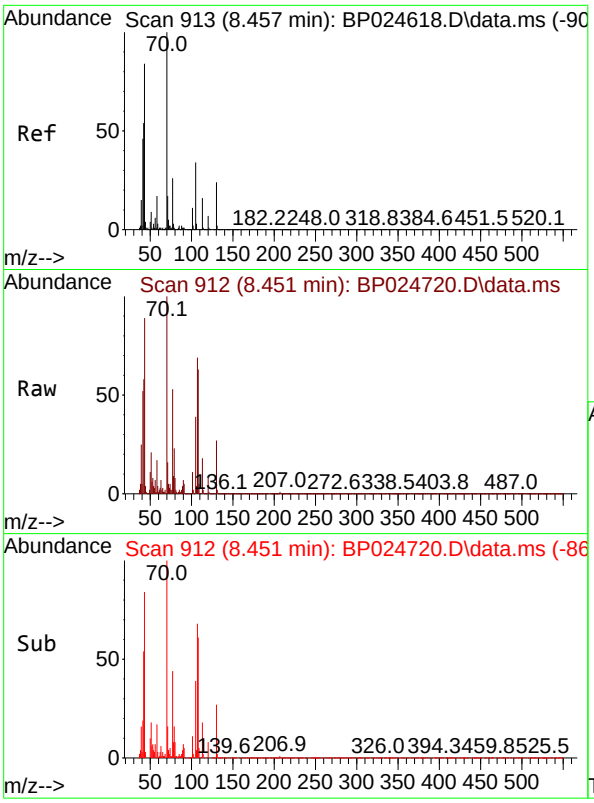


#18
Hexachloroethane
Concen: 35.564 ng
RT: 8.716 min Scan# 957
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:117 Resp: 106031

Ion	Ratio	Lower	Upper
117	100		
119	99.7	79.4	119.0
201	104.5	82.7	124.1



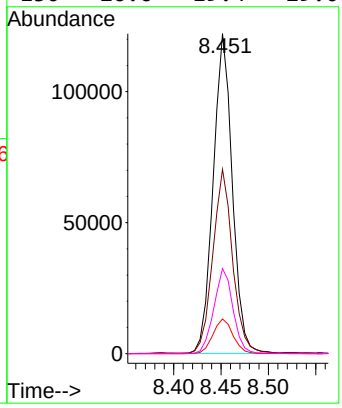


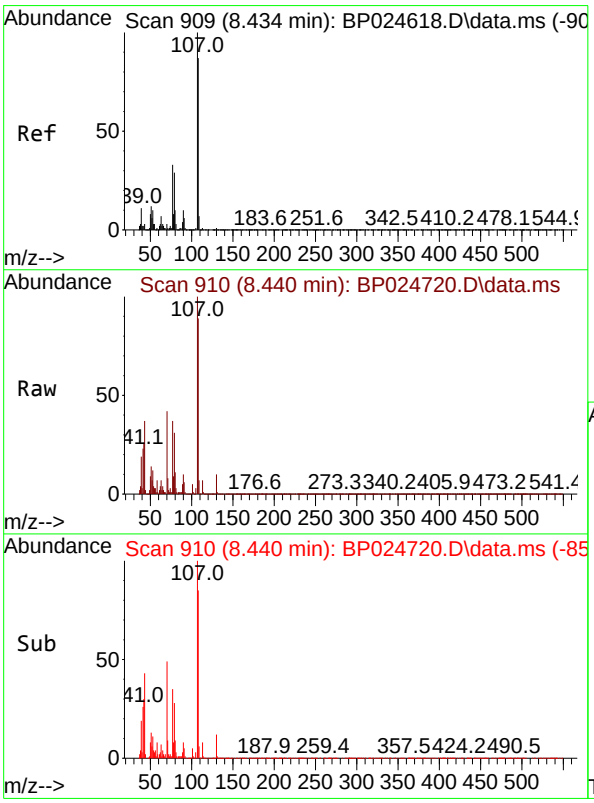
#19
n-Nitroso-di-n-propylamine
Concen: 32.847 ng
RT: 8.451 min Scan# 91
Delta R.T. -0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 171754

Ion	Ratio	Lower	Upper
70	100		
42	57.6	43.0	64.6
101	10.8	8.7	13.1
130	26.6	19.4	29.0

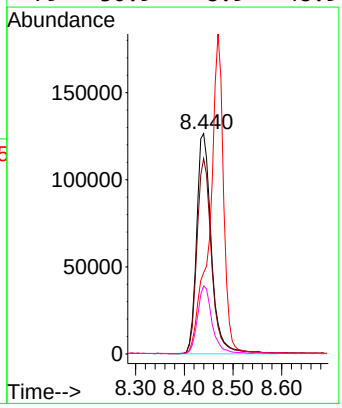


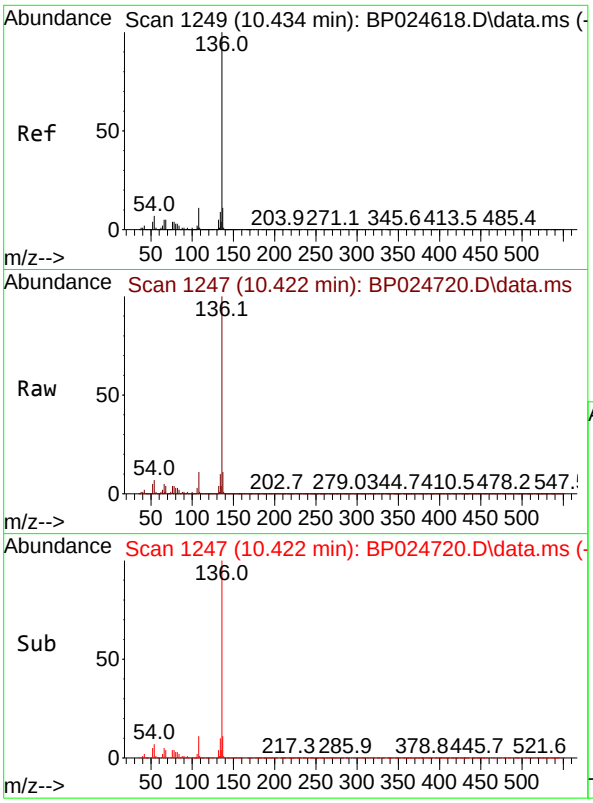


#20
3+4-Methylphenols
Concen: 34.939 ng
RT: 8.440 min Scan# 910
Delta R.T. 0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:107 Resp: 265948

Ion	Ratio	Lower	Upper
107	100		
108	88.7	66.7	106.7
77	36.9	13.1	53.1
79	30.9	8.9	48.9



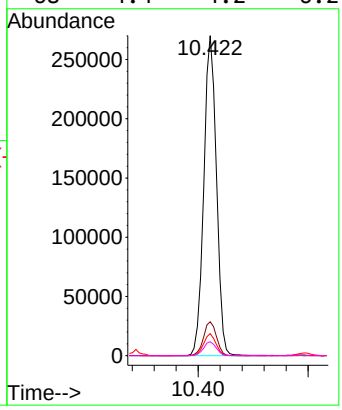


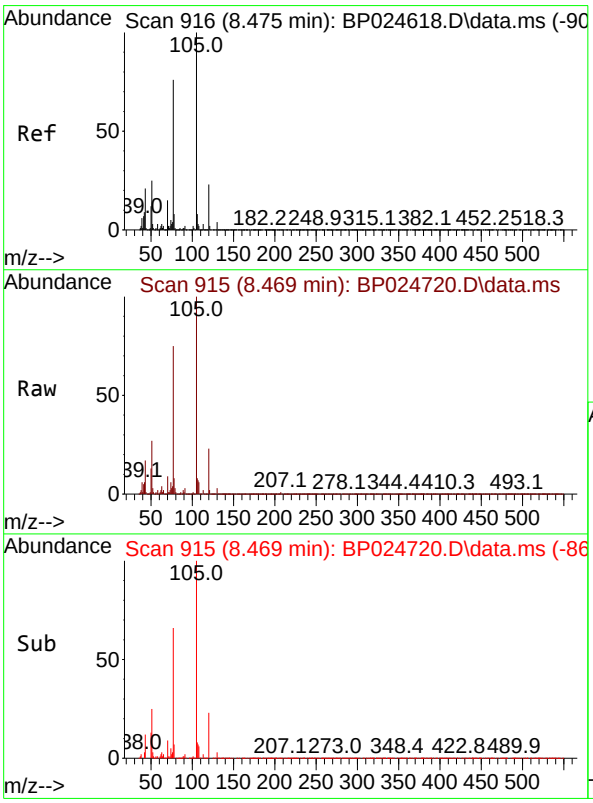
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 430577

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	6.9	5.5	8.3
68	4.4	4.2	6.2

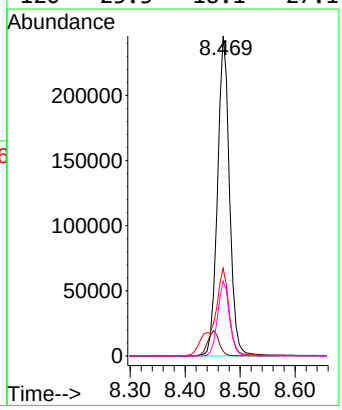


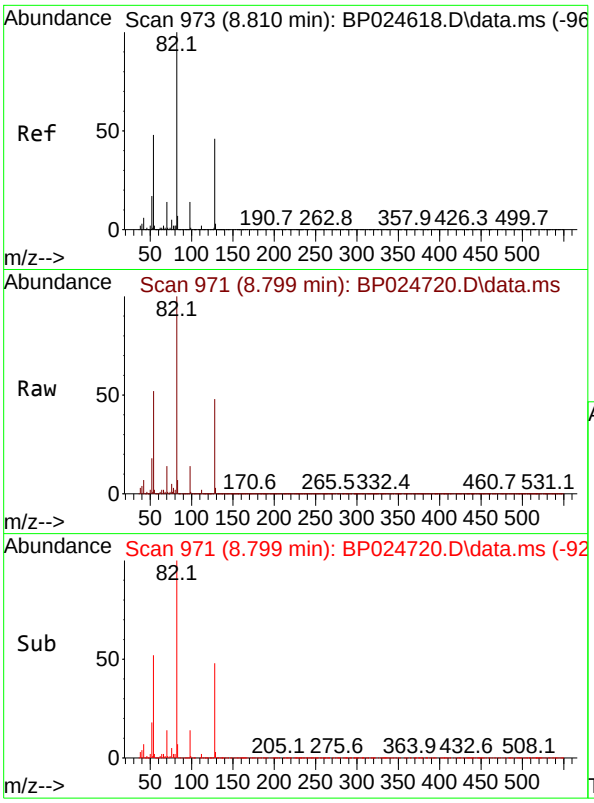


#22
Acetophenone
Concen: 34.655 ng
RT: 8.469 min Scan# 915
Delta R.T. -0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:105 Resp: 372737

Ion	Ratio	Lower	Upper
105	100		
71	1.5	2.0	3.0#
51	27.4	20.4	30.6
120	23.3	18.1	27.1



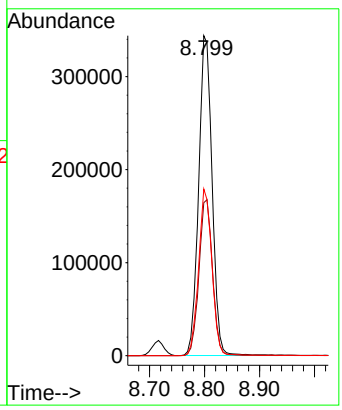


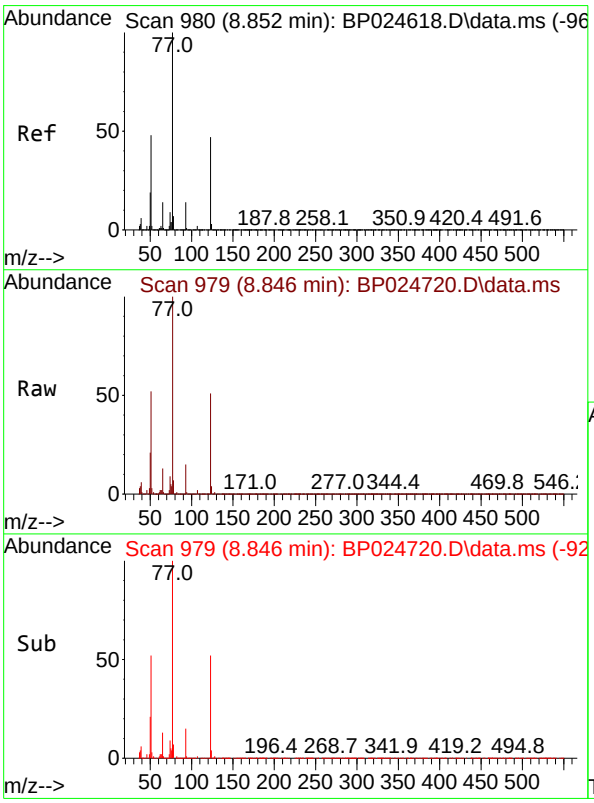
#23
Nitrobenzene-d5
Concen: 68.697 ng
RT: 8.799 min Scan# 9
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 585419

Ion	Ratio	Lower	Upper
82	100		
128	47.8	37.0	55.4
54	52.1	38.7	58.1

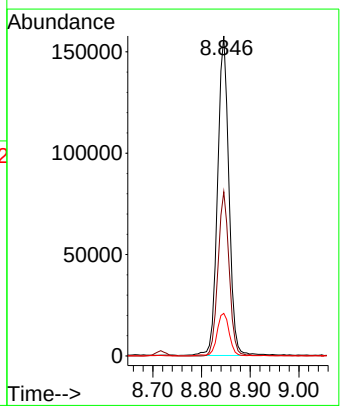


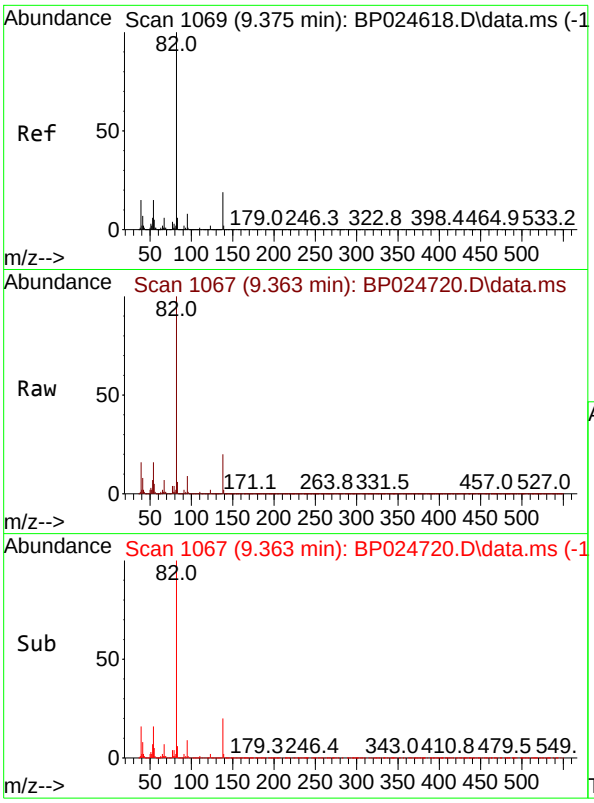


#24
Nitrobenzene
Concen: 33.924 ng
RT: 8.846 min Scan# 979
Delta R.T. -0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion: 77 Resp: 254406

Ion	Ratio	Lower	Upper
77	100		
123	51.3	37.4	56.0
65	13.3	11.3	16.9



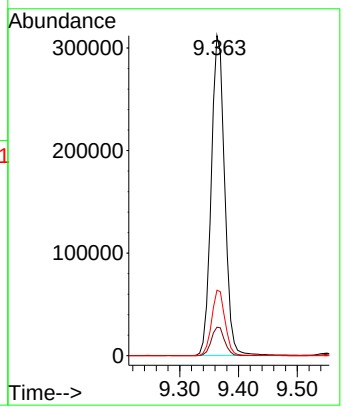


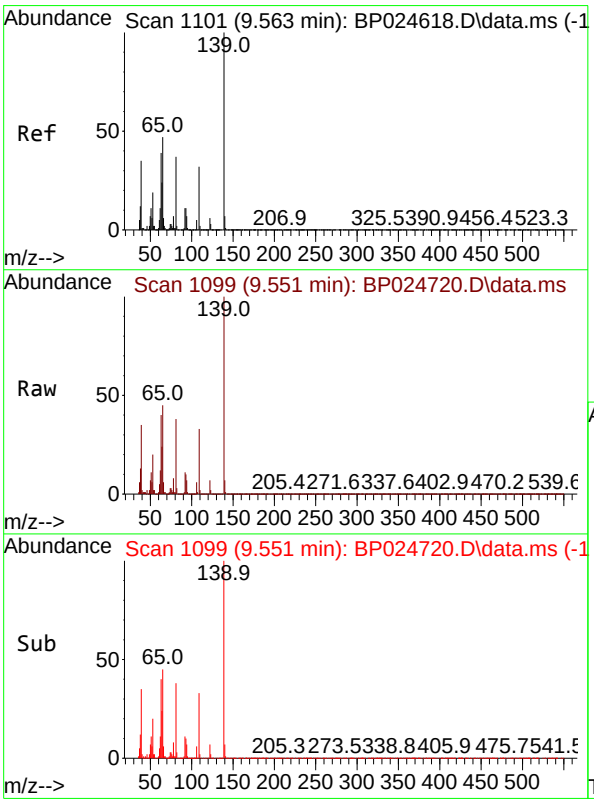
#25
Isophorone
Concen: 33.534 ng
RT: 9.363 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 495709

Ion	Ratio	Lower	Upper
82	100		
95	8.9	6.3	9.5
138	20.5	15.3	22.9

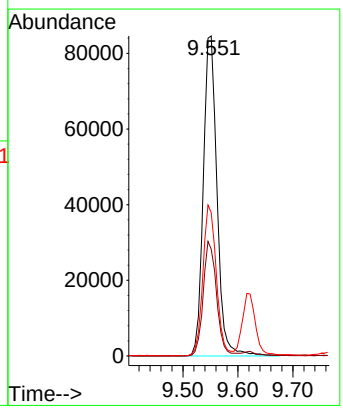


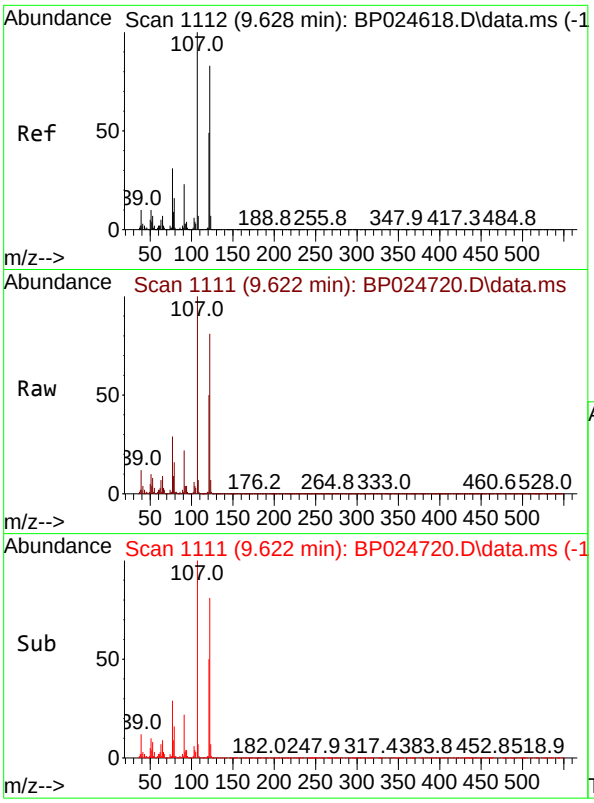


#26
2-Nitrophenol
Concen: 39.990 ng
RT: 9.551 min Scan# 1099
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:139 Resp: 146955

Ion	Ratio	Lower	Upper
139	100		
109	33.4	25.9	38.9
65	44.8	37.9	56.9



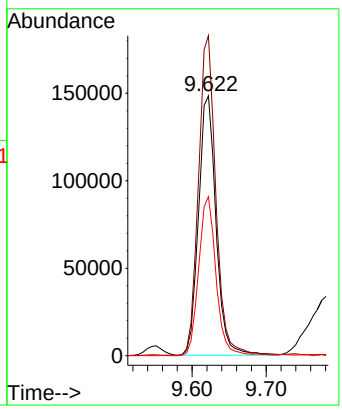


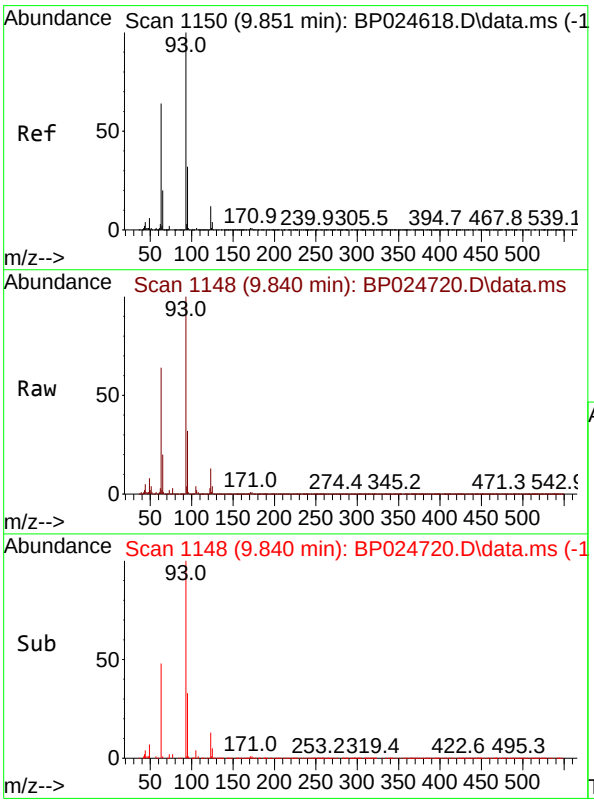
#27
2,4-Dimethylphenol
Concen: 37.699 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 244254

Ion	Ratio	Lower	Upper
122	100		
107	123.1	96.2	144.2
121	61.2	47.6	71.4

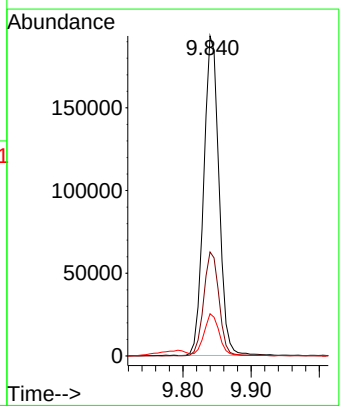


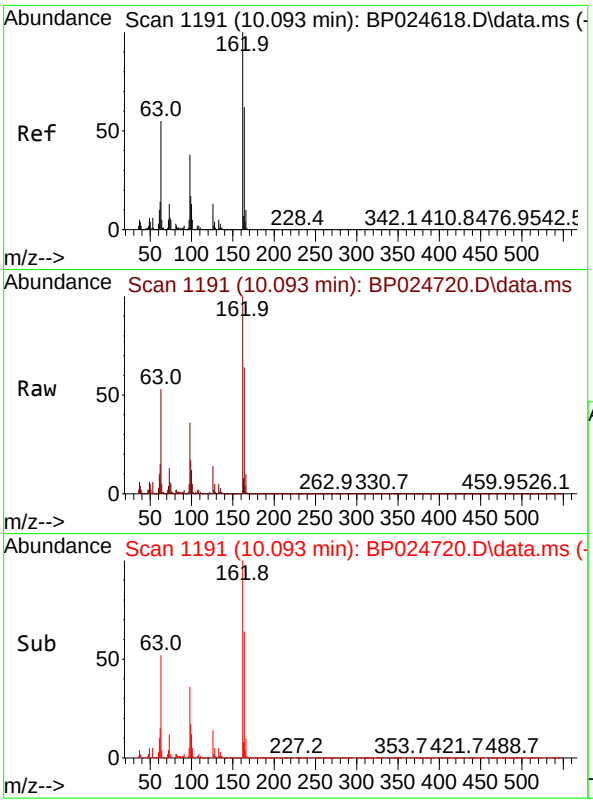


#28
bis(2-Chloroethoxy)methane
Concen: 34.087 ng
RT: 9.840 min Scan# 1148
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion: 93 Resp: 301041

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.5	38.3
123	13.2	9.7	14.5



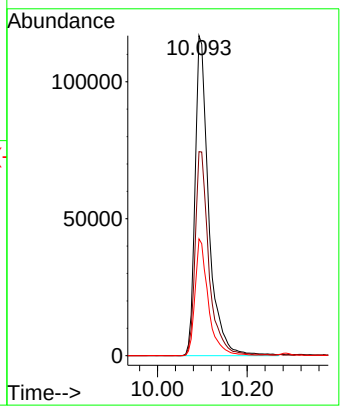


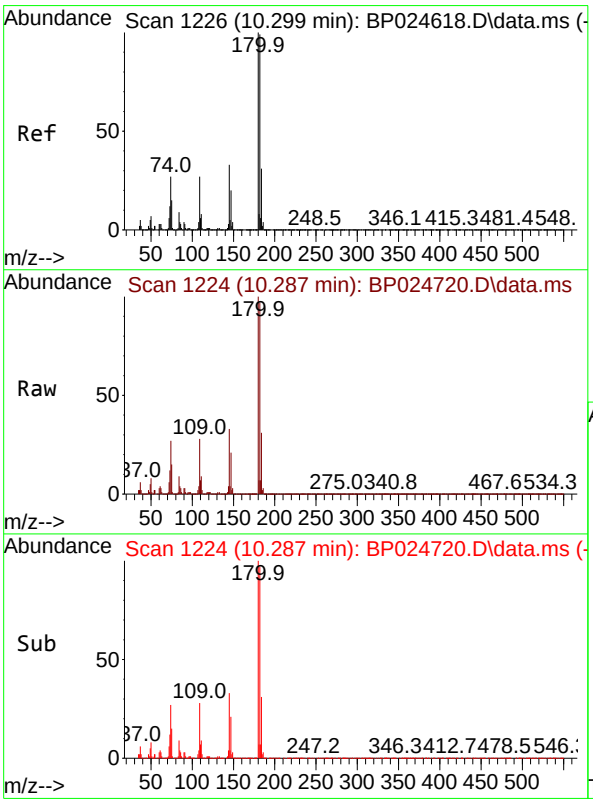
#29
2,4-Dichlorophenol
Concen: 39.336 ng
RT: 10.093 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 246970

Ion	Ratio	Lower	Upper
162	100		
164	63.8	42.3	82.3
98	36.5	18.4	58.4

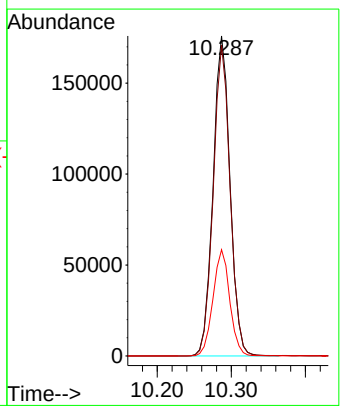


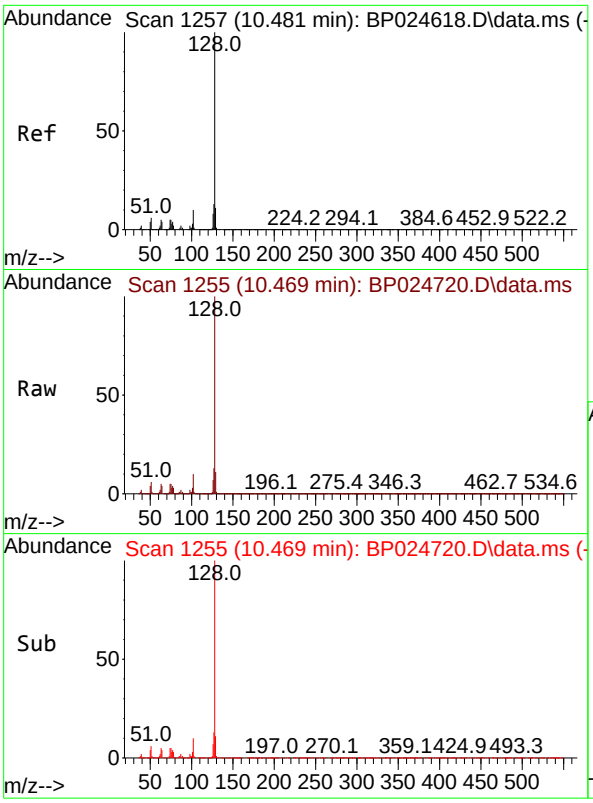


#30
1,2,4-Trichlorobenzene
Concen: 39.488 ng
RT: 10.287 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:180 Resp: 279384

Ion	Ratio	Lower	Upper
180	100		
182	97.1	79.0	118.4
145	33.2	26.6	39.8



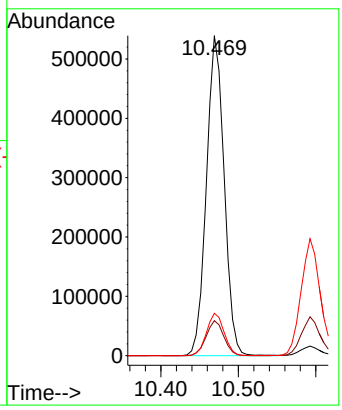


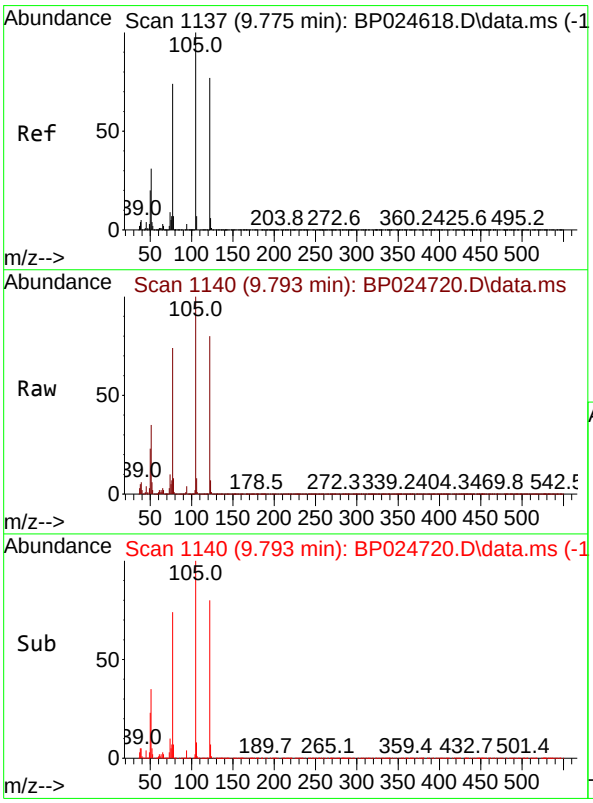
#31
Naphthalene
Concen: 38.363 ng
RT: 10.469 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 855993

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.2	10.7	16.1

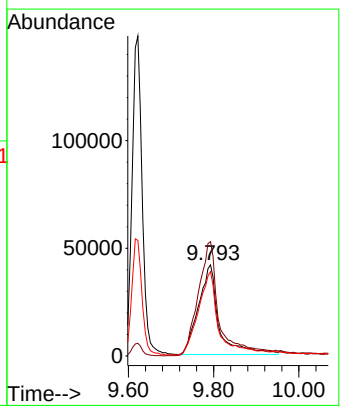


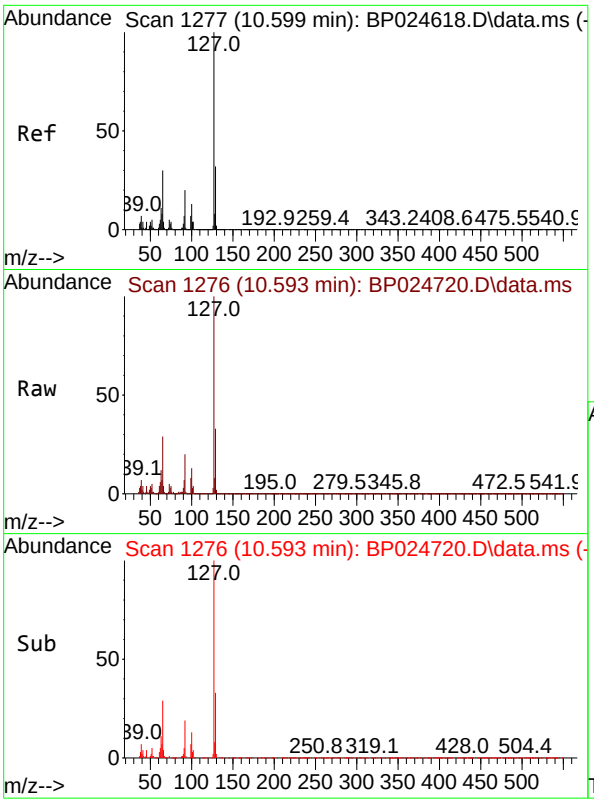


#32
Benzoic acid
Concen: 33.740 ng
RT: 9.793 min Scan# 1140
Delta R.T. 0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:122 Resp: 140333

Ion	Ratio	Lower	Upper
122	100		
105	125.4	106.9	146.9
77	92.6	75.1	115.1



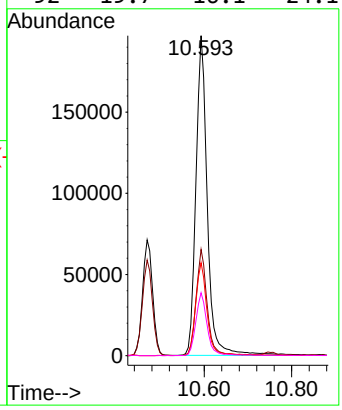


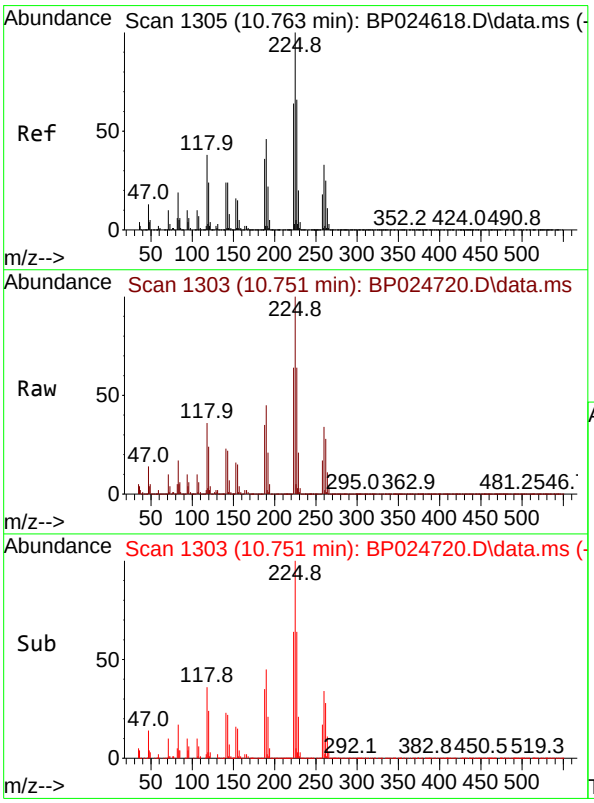
#33
4-Chloroaniline
Concen: 39.566 ng
RT: 10.593 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 356244

Ion	Ratio	Lower	Upper
127	100		
129	33.2	25.8	38.6
65	29.1	23.9	35.9
92	19.7	16.1	24.1

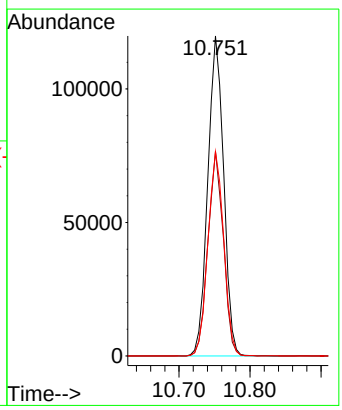


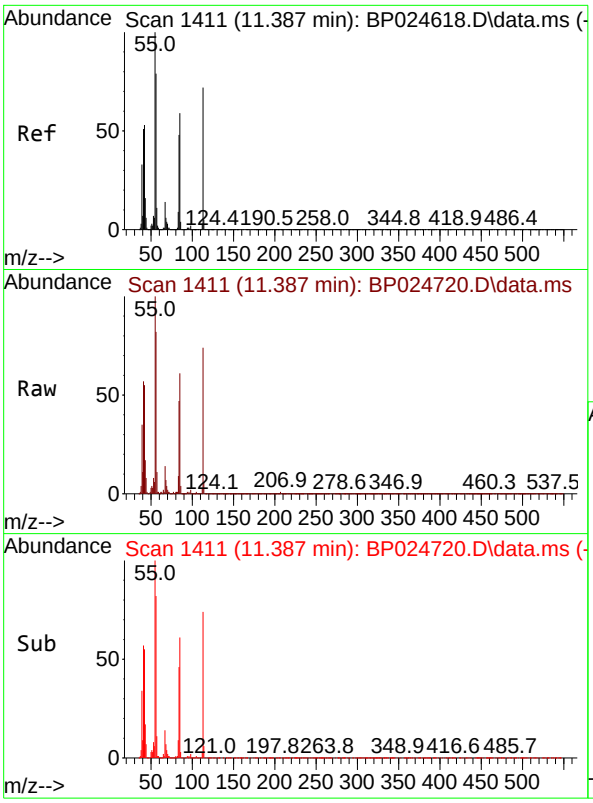


#34
Hexachlorobutadiene
Concen: 40.662 ng
RT: 10.751 min Scan# 1303
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:225 Resp: 186367

Ion	Ratio	Lower	Upper
225	100		
223	64.0	51.0	76.6
227	63.9	53.1	79.7



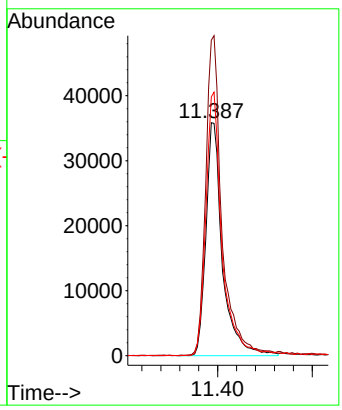


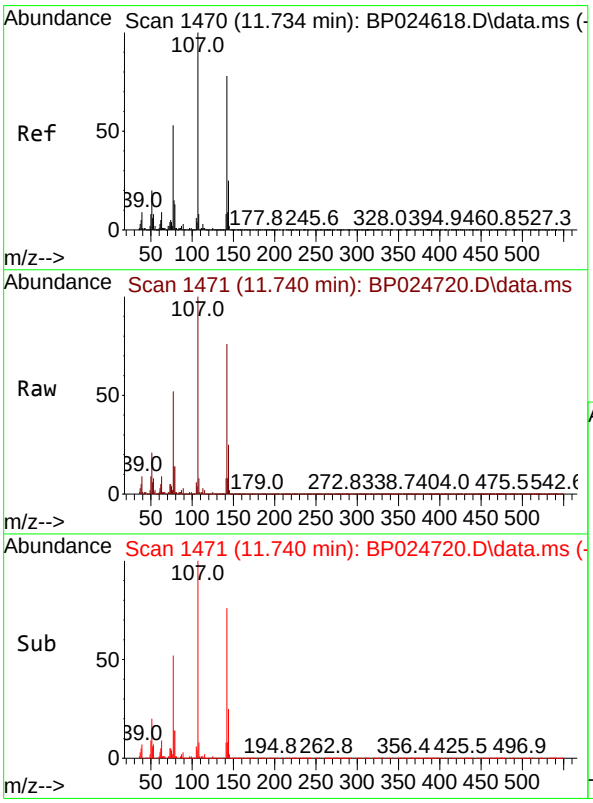
#35
Caprolactam
Concen: 38.067 ng
RT: 11.387 min Scan# 14
Delta R.T. -0.000 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 86473

Ion	Ratio	Lower	Upper
113	100		
55	135.4	119.0	159.0
56	111.0	90.3	130.3

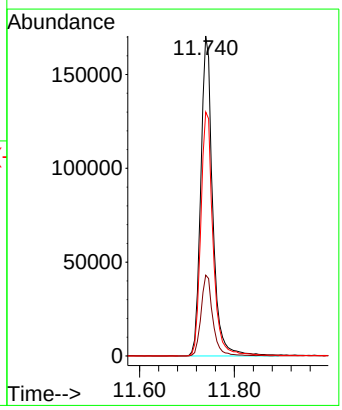


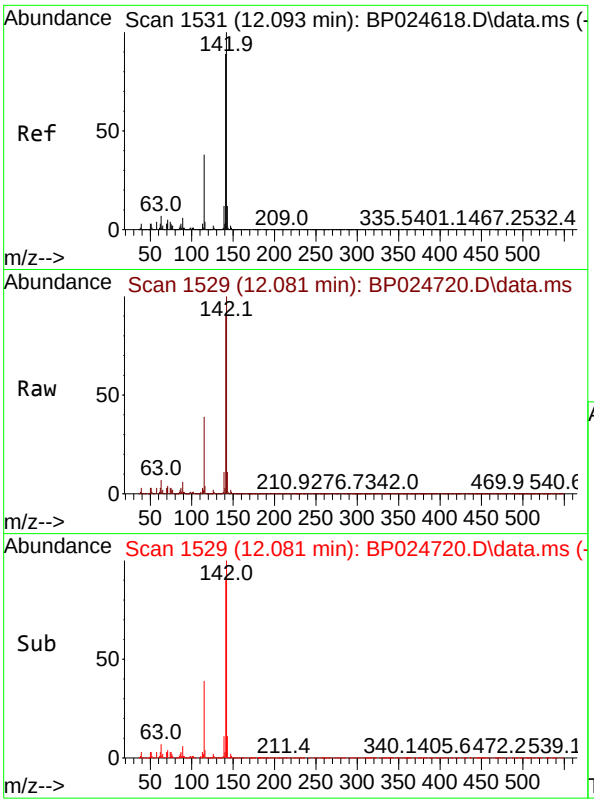


#36
4-Chloro-3-methylphenol
Concen: 38.840 ng
RT: 11.740 min Scan# 1471
Delta R.T. 0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:107 Resp: 297380

Ion	Ratio	Lower	Upper
107	100		
144	25.3	20.1	30.1
142	76.3	62.1	93.1



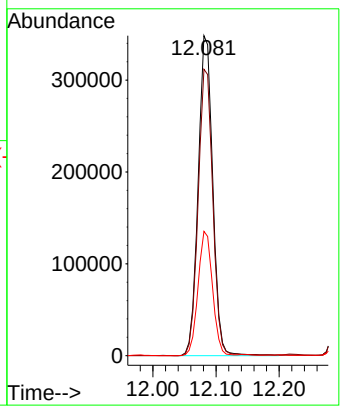


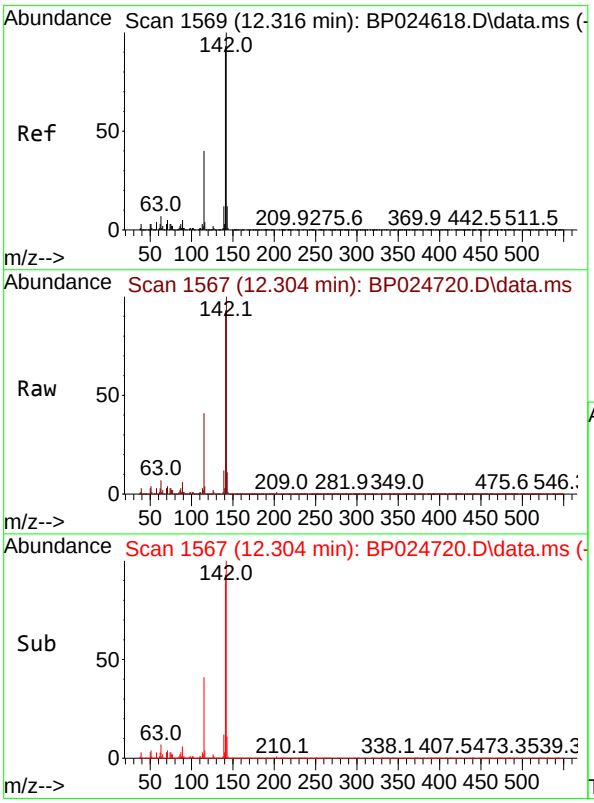
#37
2-Methylnaphthalene
Concen: 38.573 ng
RT: 12.081 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 557293

Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.2	106.8
115	38.9	30.6	46.0

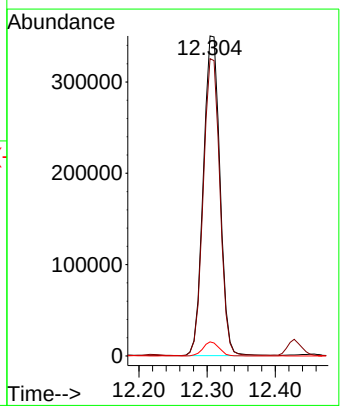


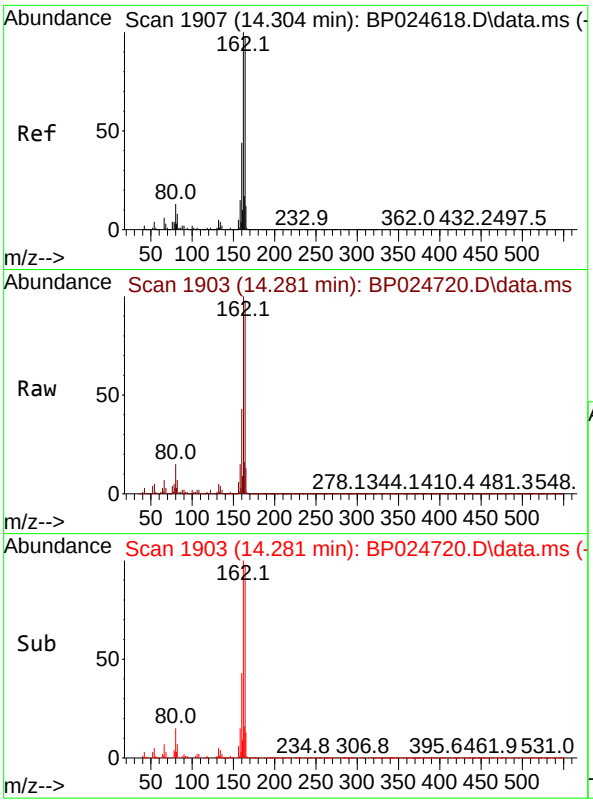


#38
1-Methylnaphthalene
Concen: 38.448 ng
RT: 12.304 min Scan# 1567
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:142 Resp: 594355

Ion	Ratio	Lower	Upper
142	100		
141	92.9	74.7	112.1
116	4.4	3.4	5.2



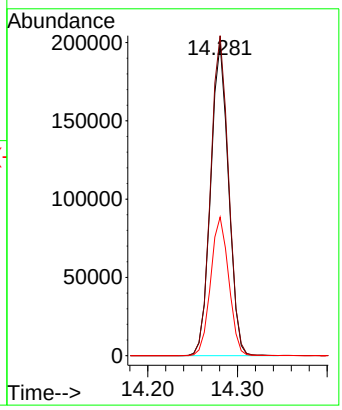


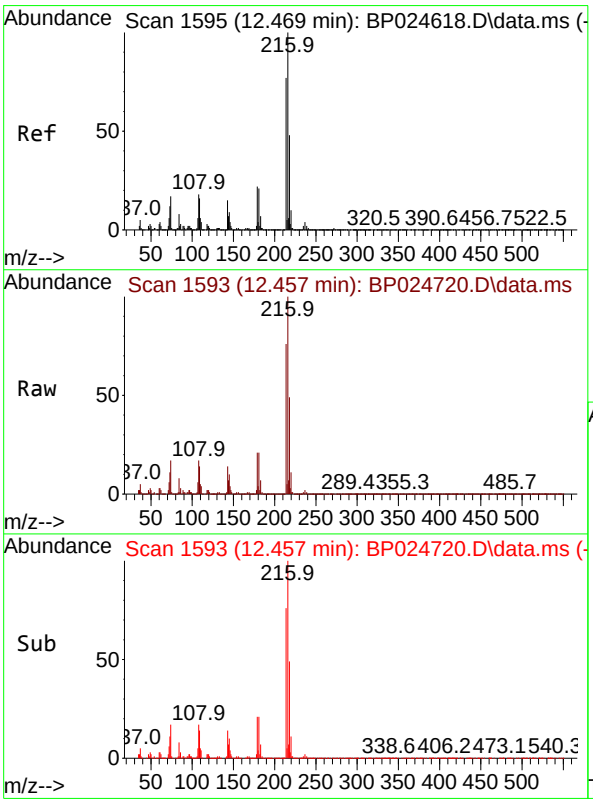
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.281 min Scan# 1
Delta R.T. -0.024 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 274136

Ion	Ratio	Lower	Upper
164	100		
162	102.5	81.8	122.6
160	44.4	36.3	54.5

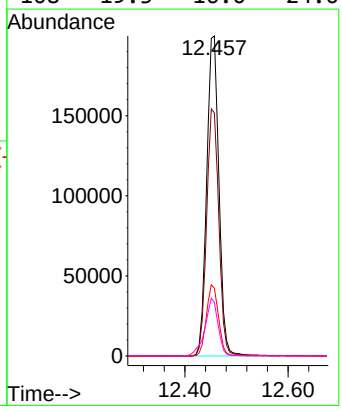


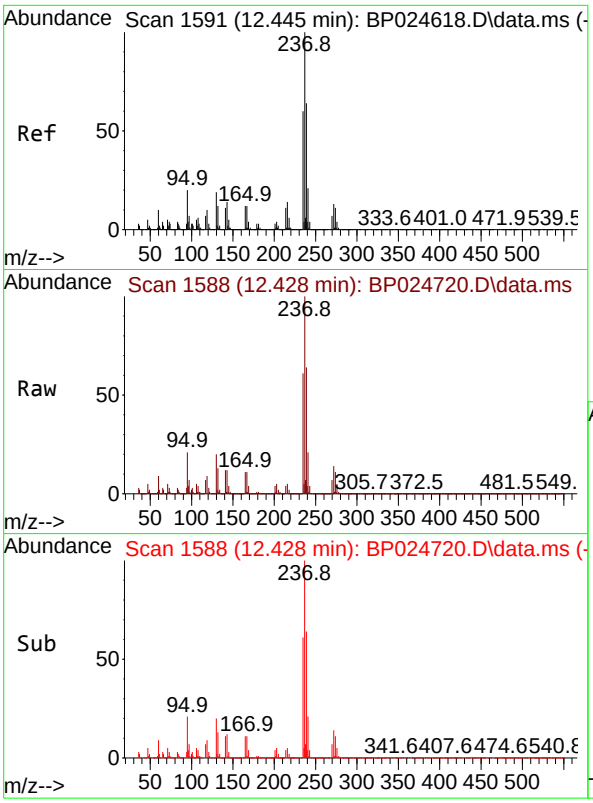


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.237 ng
RT: 12.457 min Scan# 1593
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:216 Resp: 328274

Ion	Ratio	Lower	Upper
216	100		
214	77.3	62.3	93.5
179	22.2	17.7	26.5
108	19.3	16.0	24.0



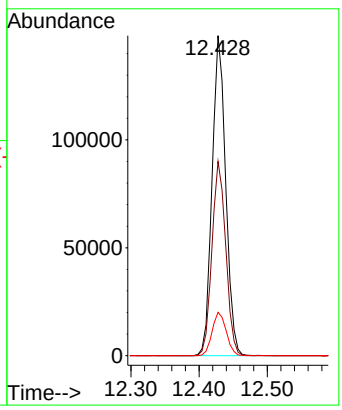


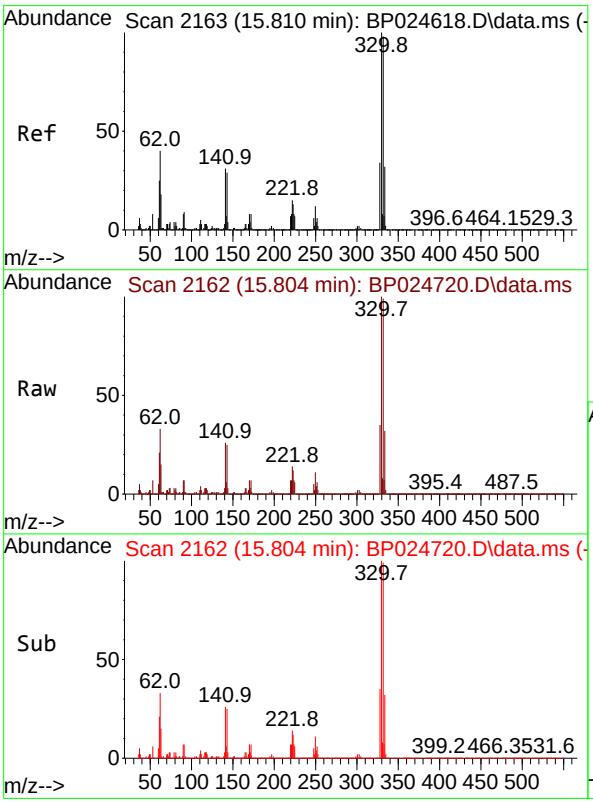
#41
Hexachlorocyclopentadiene
Concen: 42.689 ng
RT: 12.428 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 206062

Ion	Ratio	Lower	Upper
237	100		
235	60.7	39.9	79.9
272	13.6	0.0	33.2

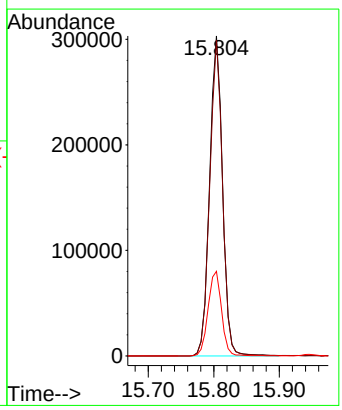


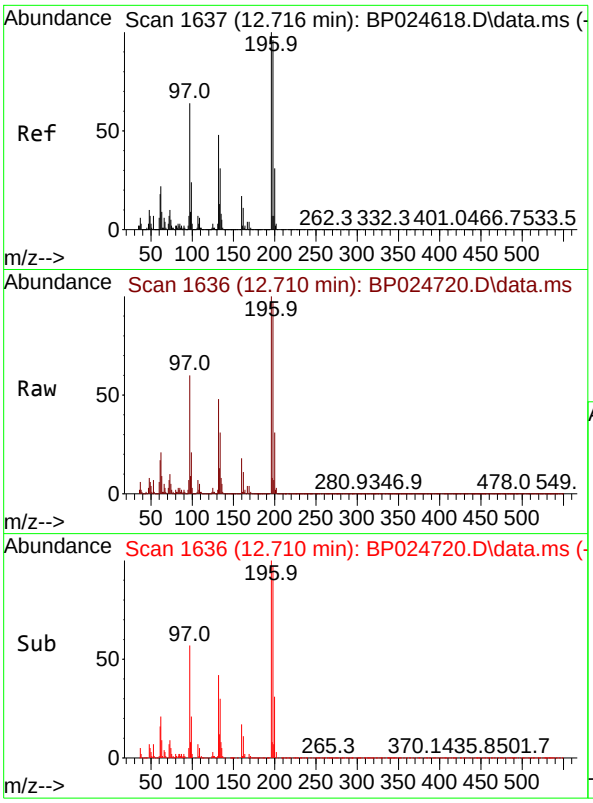


#42
2,4,6-Tribromophenol
Concen: 89.439 ng
RT: 15.804 min Scan# 2162
Delta R.T. -0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:330 Resp: 415657

Ion	Ratio	Lower	Upper
330	100		
332	97.5	78.2	117.4
141	27.6	24.3	36.5



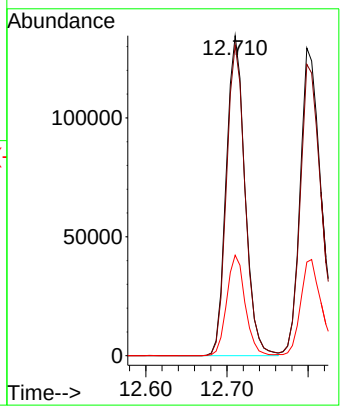


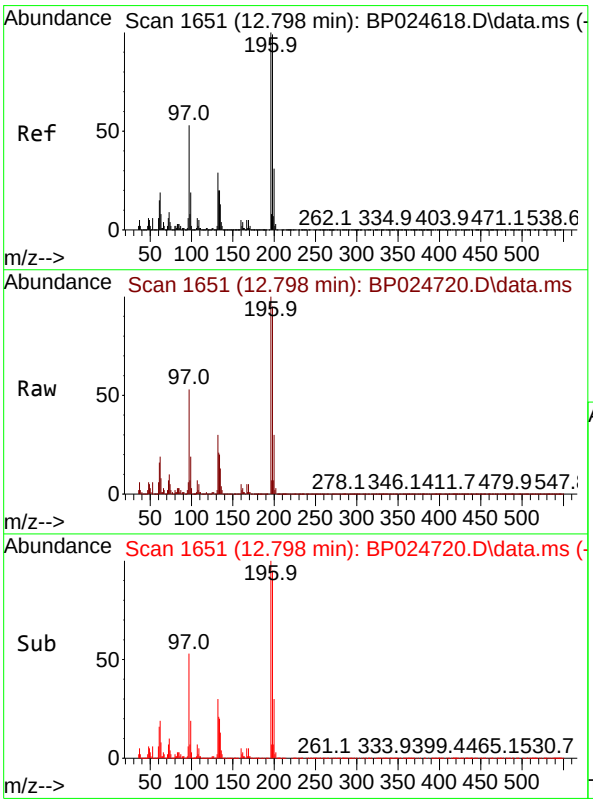
#43
2,4,6-Trichlorophenol
Concen: 41.821 ng
RT: 12.710 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 215634

Ion	Ratio	Lower	Upper
196	100		
198	97.1	76.9	115.3
200	31.4	25.2	37.8

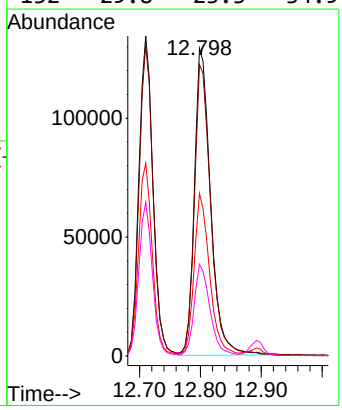


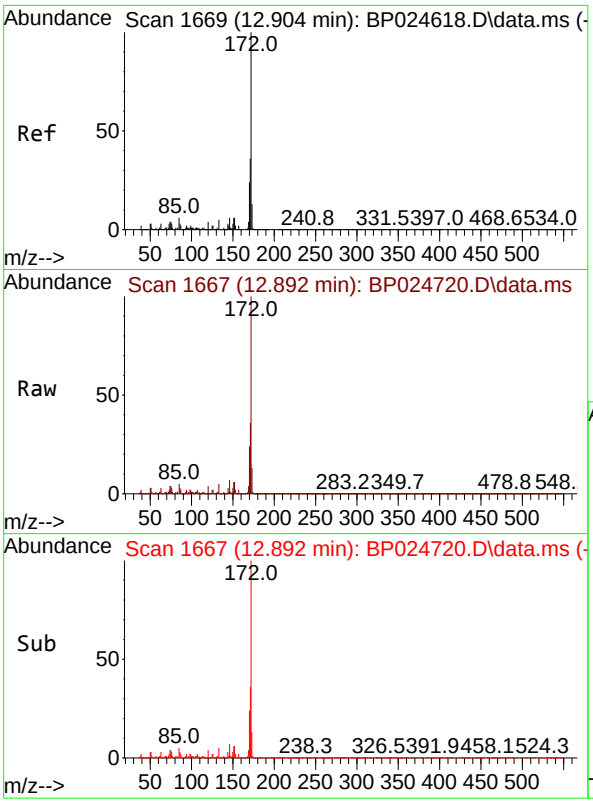


#44
2,4,5-Trichlorophenol
Concen: 41.765 ng
RT: 12.798 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:196 Resp: 239708

Ion	Ratio	Lower	Upper
196	100		
198	94.7	79.2	118.8
97	52.8	42.3	63.5
132	29.8	23.3	34.9



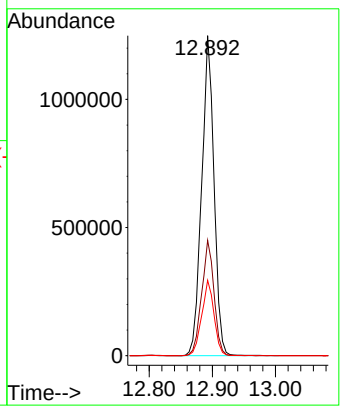


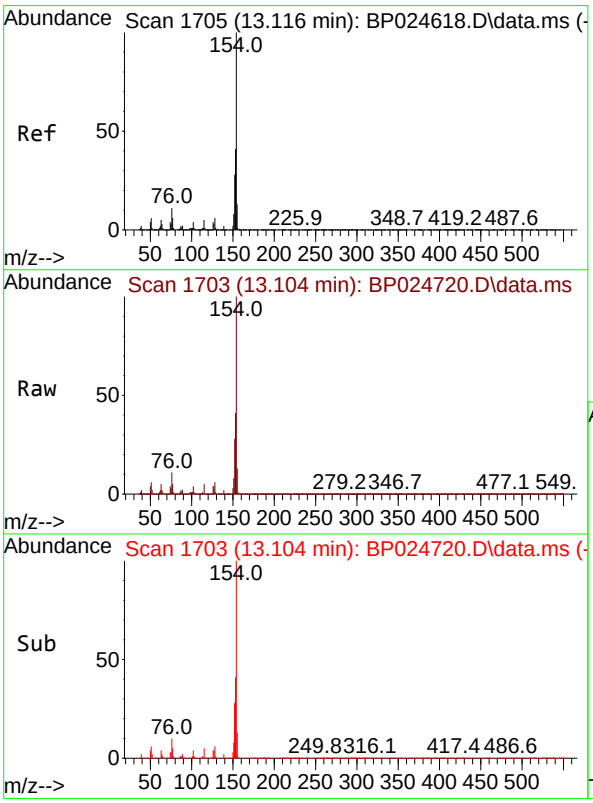
#45
2-Fluorobiphenyl
Concen: 81.193 ng
RT: 12.892 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 1698923

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.8	43.2
170	23.6	18.8	28.2

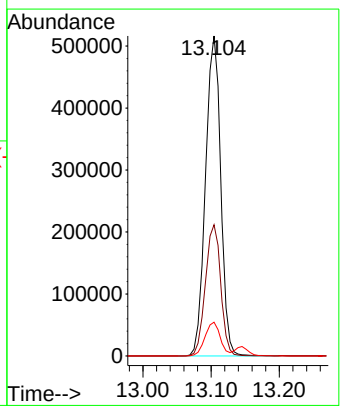


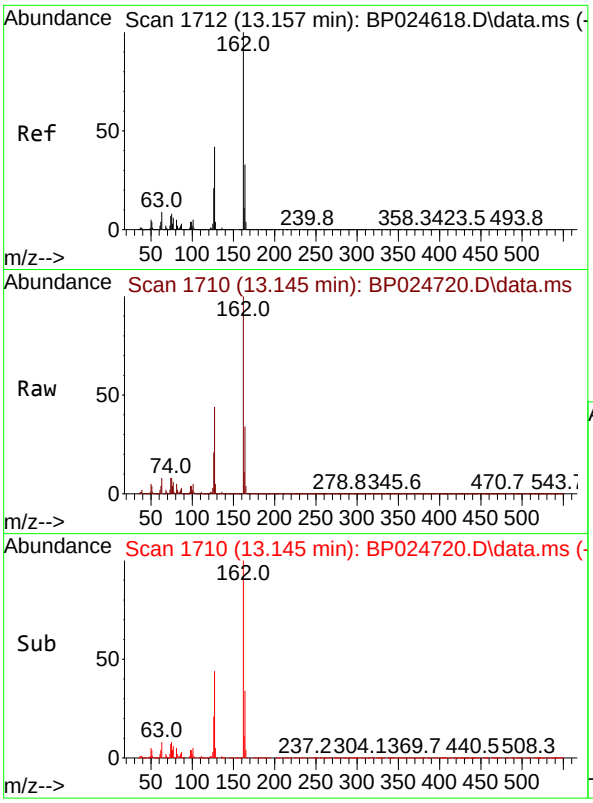


#46
1,1'-Biphenyl
Concen: 39.543 ng
RT: 13.104 min Scan# 1703
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:154 Resp: 801201

Ion	Ratio	Lower	Upper
154	100		
153	41.0	21.0	61.0
76	10.6	0.0	31.5



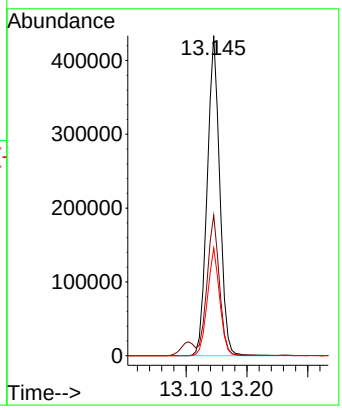


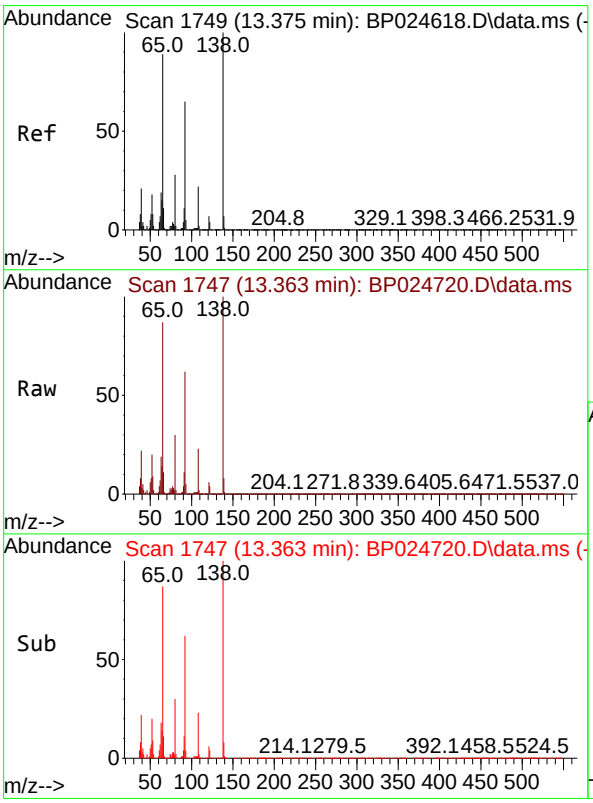
#47
2-Chloronaphthalene
Concen: 40.098 ng
RT: 13.145 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 619466

Ion	Ratio	Lower	Upper
162	100		
127	43.9	33.8	50.6
164	33.7	26.0	39.0

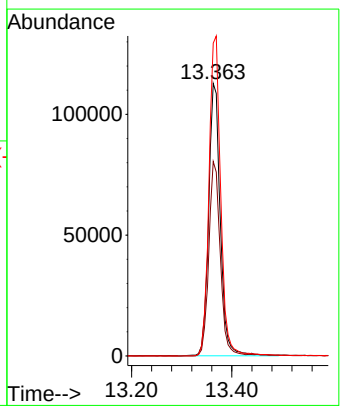


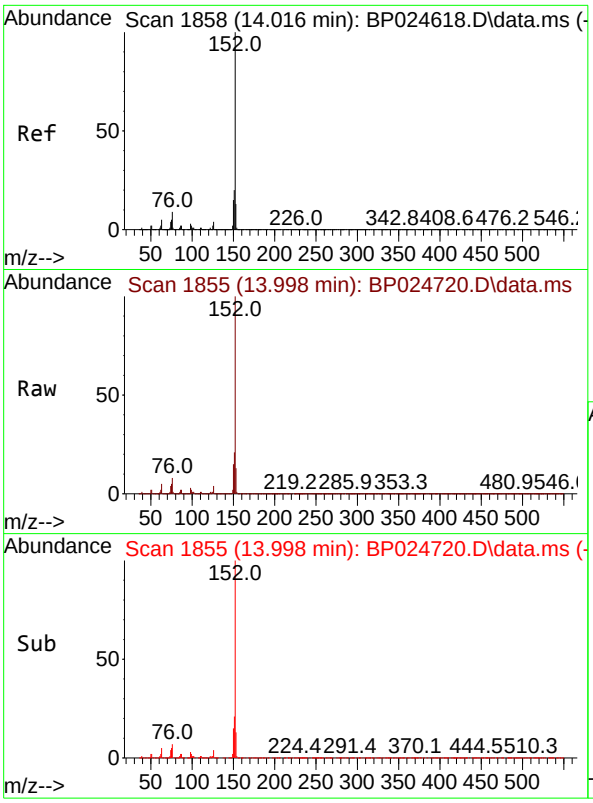


#48
2-Nitroaniline
Concen: 39.796 ng
RT: 13.363 min Scan# 1747
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion: 65 Resp: 182018

Ion	Ratio	Lower	Upper
65	100		
92	71.3	58.7	88.1
138	114.8	90.2	135.2



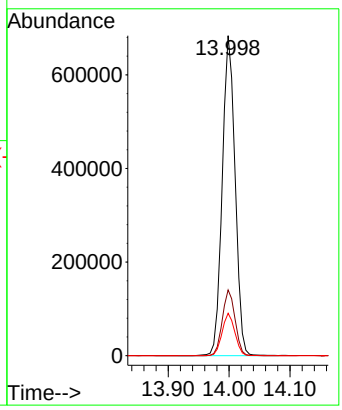


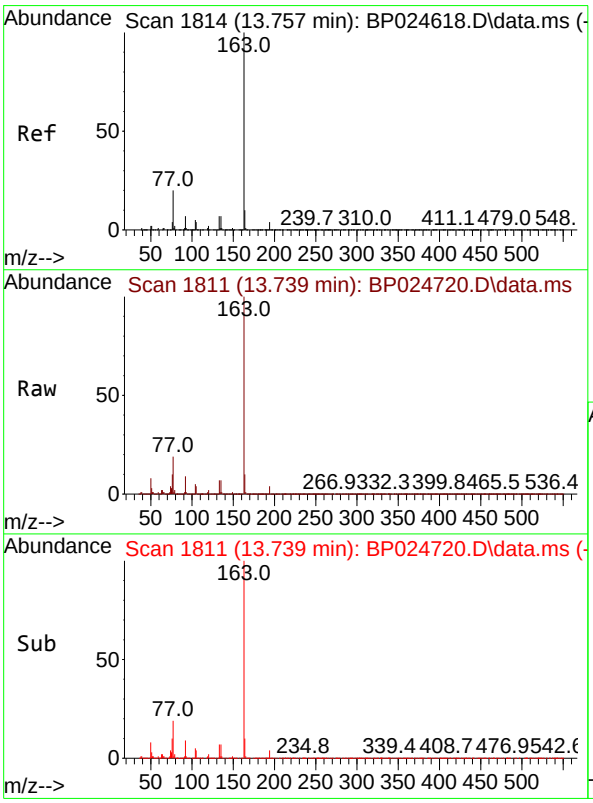
#49
Acenaphthylene
Concen: 38.796 ng
RT: 13.998 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 1003020

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4
153	13.2	10.2	15.4

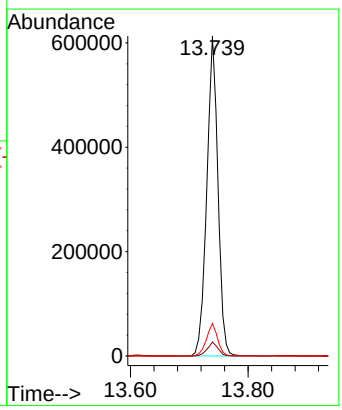


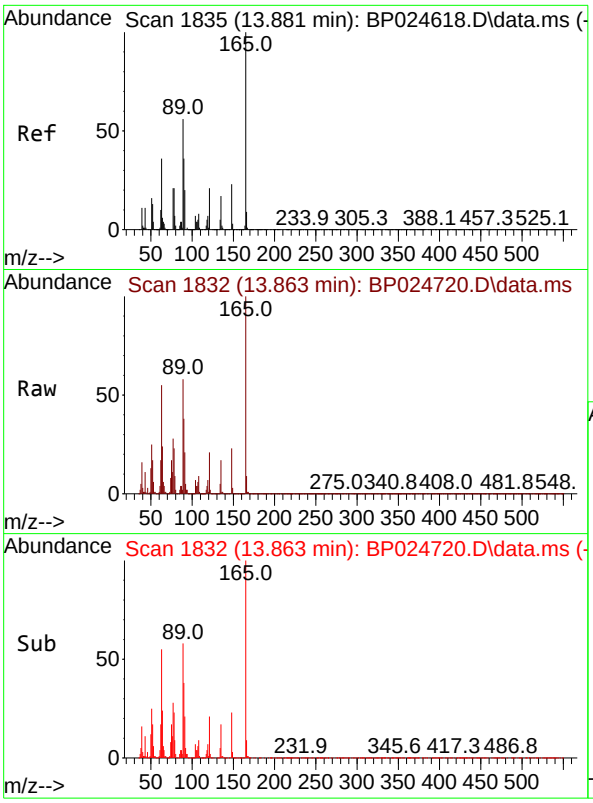


#50
Dimethylphthalate
Concen: 38.694 ng
RT: 13.739 min Scan# 1811
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:163 Resp: 808499

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.0
164	10.2	8.1	12.1



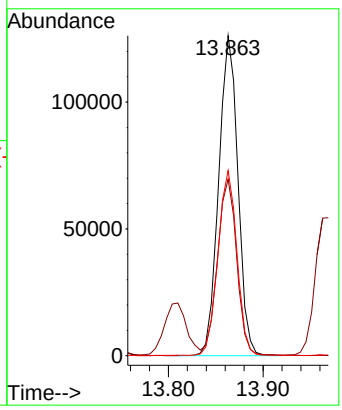


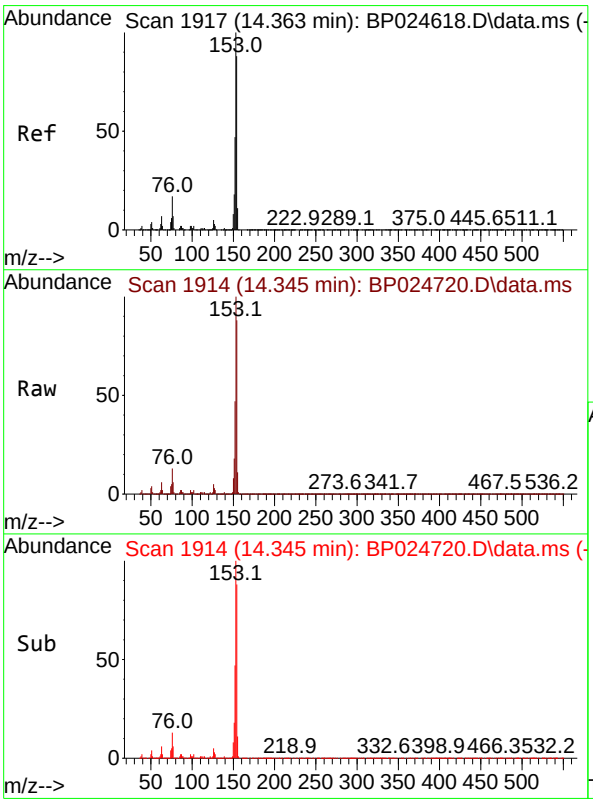
#51
2,6-Dinitrotoluene
Concen: 40.374 ng
RT: 13.863 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 178166

Ion	Ratio	Lower	Upper
165	100		
63	55.2	42.4	63.6
89	57.9	44.8	67.2

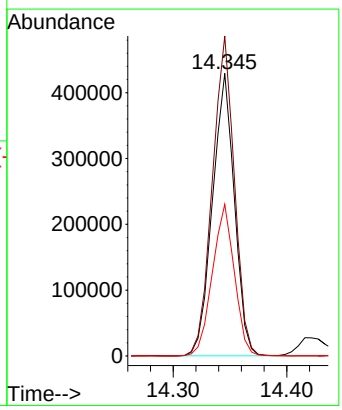


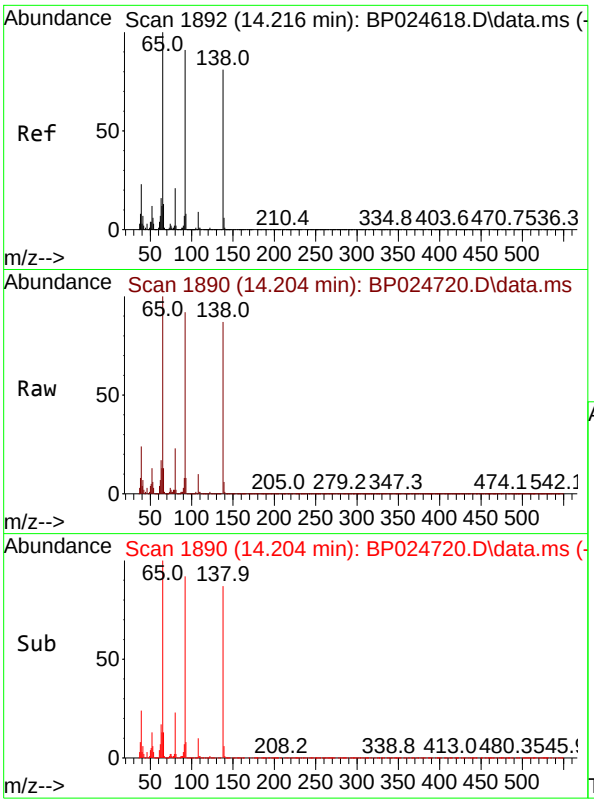


#52
Acenaphthene
Concen: 38.798 ng
RT: 14.345 min Scan# 1914
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:154 Resp: 576651

Ion	Ratio	Lower	Upper
154	100		
153	113.3	91.0	136.4
152	53.7	42.9	64.3



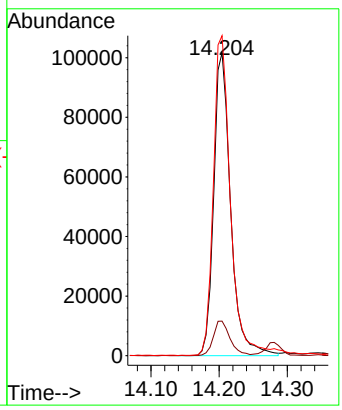


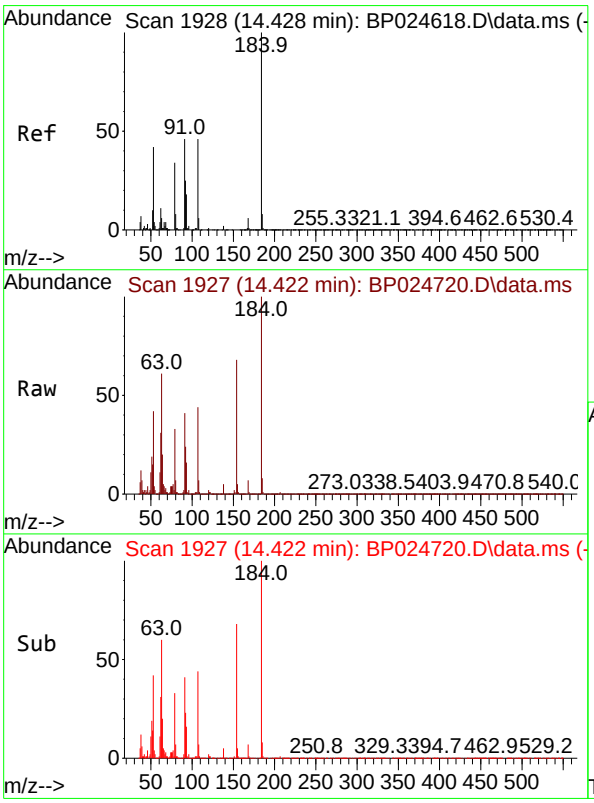
#53
3-Nitroaniline
Concen: 38.955 ng
RT: 14.204 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 175524

Ion	Ratio	Lower	Upper
138	100		
108	11.4	9.0	13.4
92	105.6	90.1	135.1

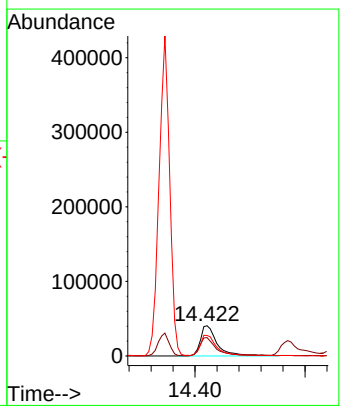


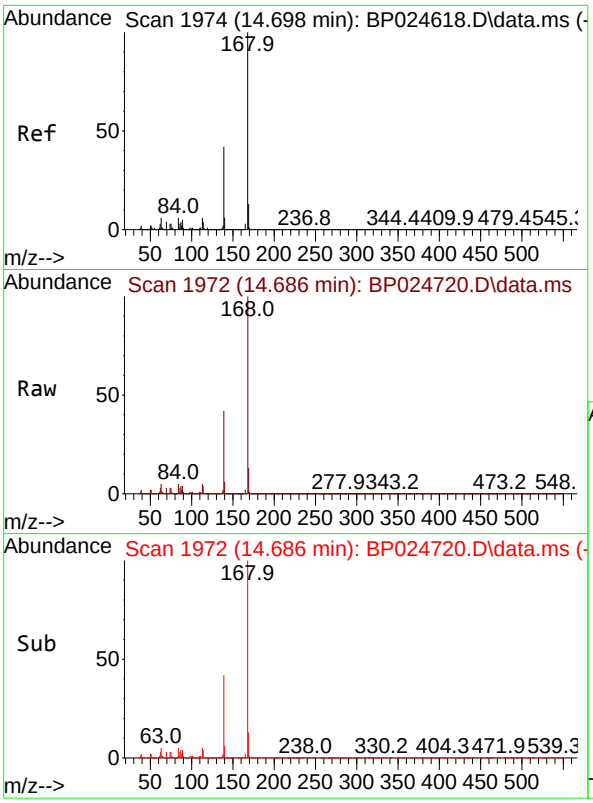


#54
2,4-Dinitrophenol
Concen: 35.052 ng
RT: 14.422 min Scan# 1927
Delta R.T. -0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:184 Resp: 86660

Ion	Ratio	Lower	Upper
184	100		
63	60.6	51.3	76.9
154	67.6	53.5	80.3



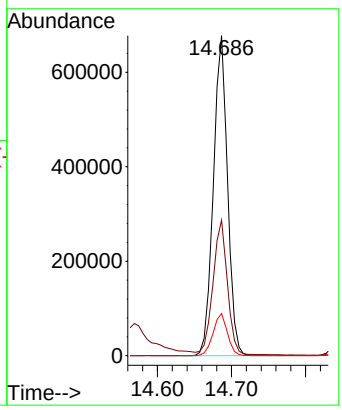


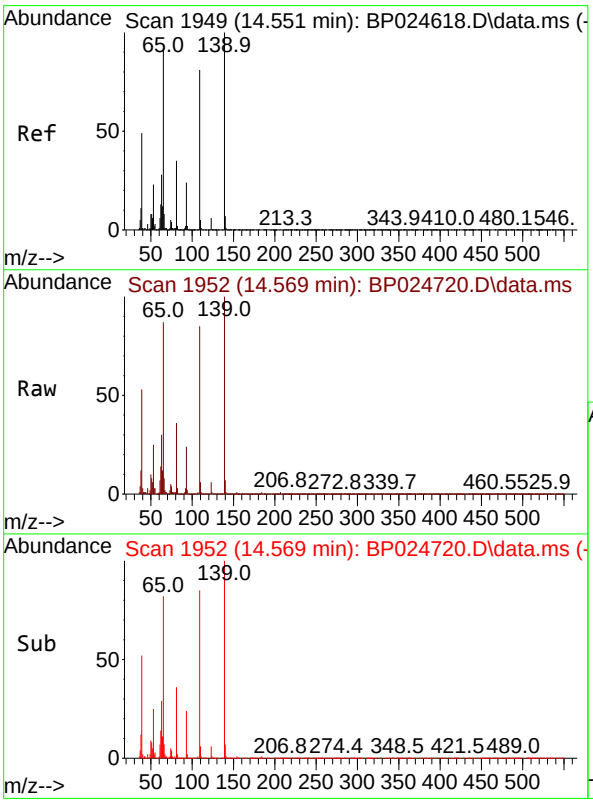
#55
Dibenzofuran
Concen: 37.960 ng
RT: 14.686 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 899912

Ion	Ratio	Lower	Upper
168	100		
139	42.4	34.2	51.4
169	13.1	10.8	16.2

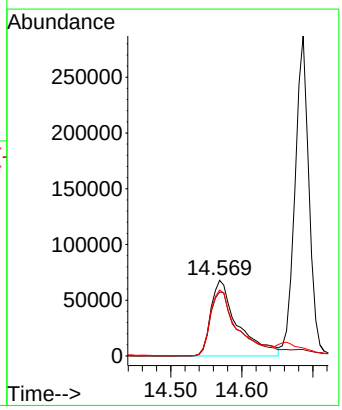


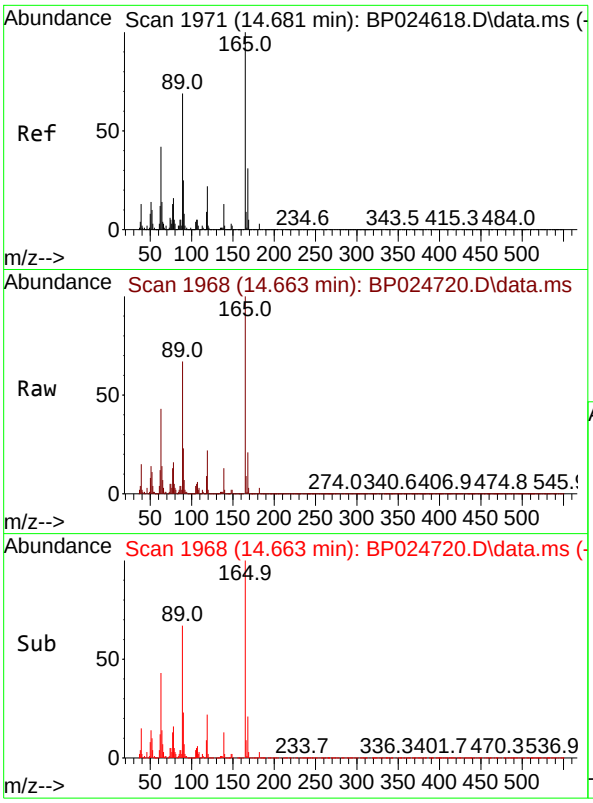


#56
4-Nitrophenol
Concen: 47.863 ng
RT: 14.569 min Scan# 1952
Delta R.T. 0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:139 Resp: 179706

Ion	Ratio	Lower	Upper
139	100		
109	84.5	61.4	101.4
65	87.0	72.2	112.2



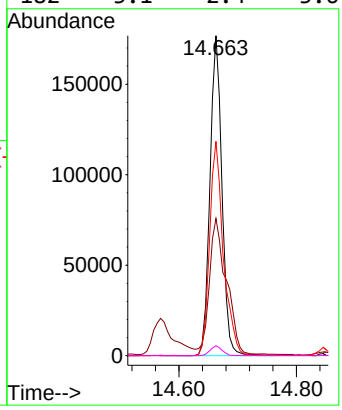


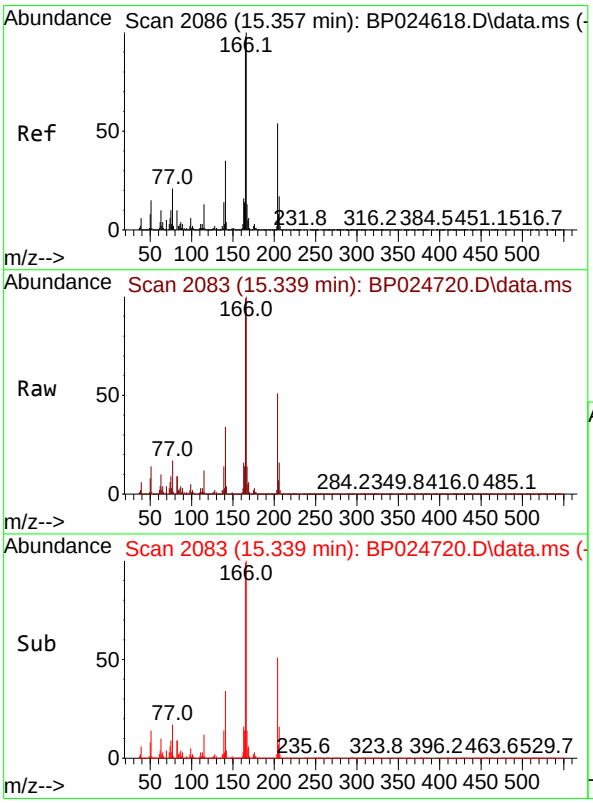
#57
2,4-Dinitrotoluene
Concen: 40.200 ng
RT: 14.663 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 250096

Ion	Ratio	Lower	Upper
165	100		
63	42.8	33.8	50.6
89	67.0	55.6	83.4
182	3.1	2.4	3.6

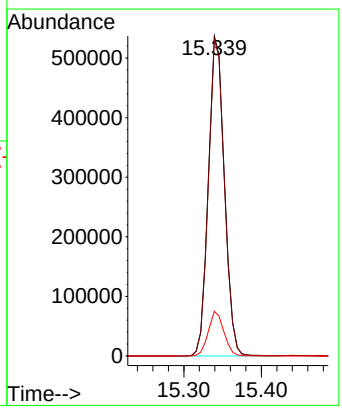


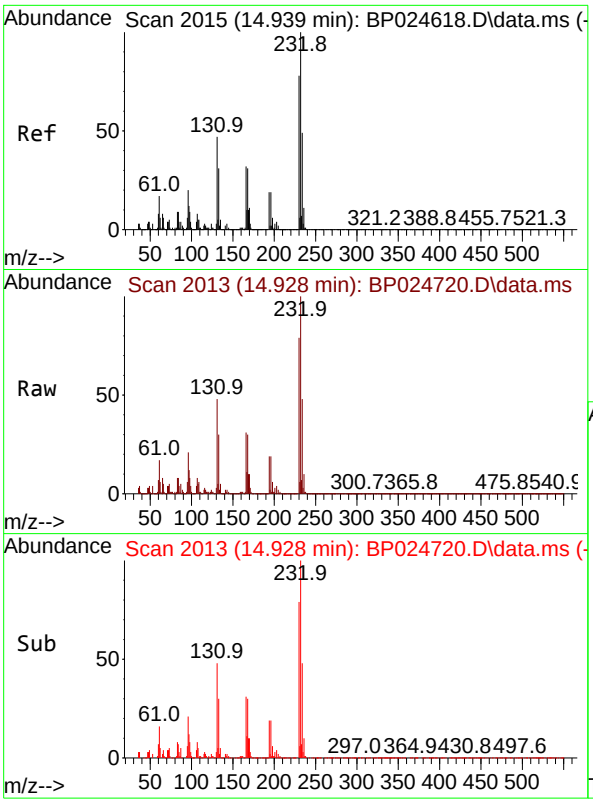


#58
Fluorene
Concen: 39.905 ng
RT: 15.339 min Scan# 2083
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:166 Resp: 771386

Ion	Ratio	Lower	Upper
166	100		
165	99.0	78.5	117.7
167	14.0	10.7	16.1



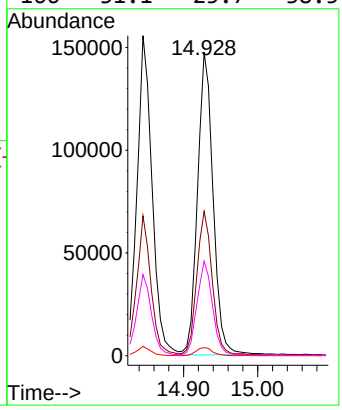


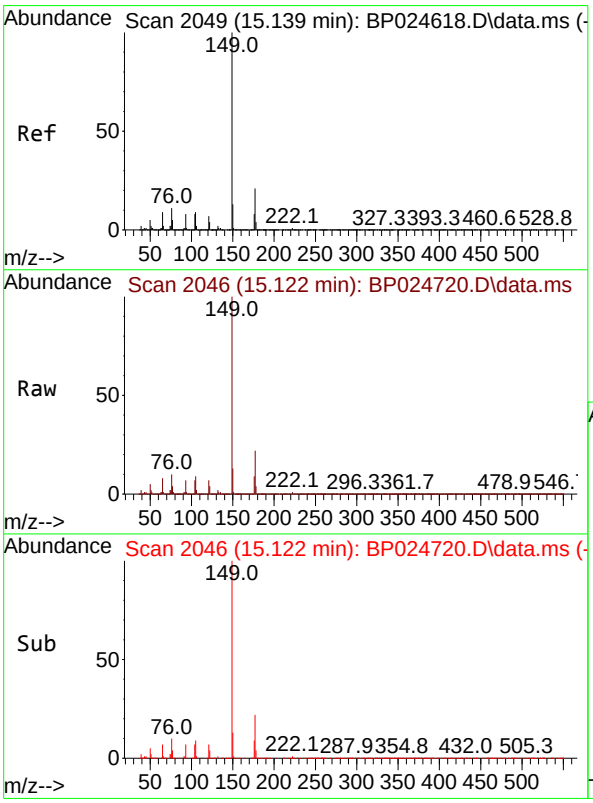
#59
2,3,4,6-Tetrachlorophenol
Concen: 40.457 ng
RT: 14.928 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 215401

Ion	Ratio	Lower	Upper
232	100		
131	47.6	39.5	59.3
130	2.8	2.2	3.4
166	31.1	25.7	38.5

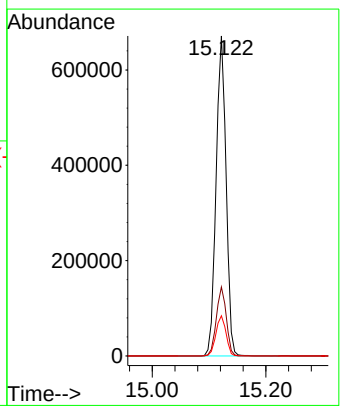


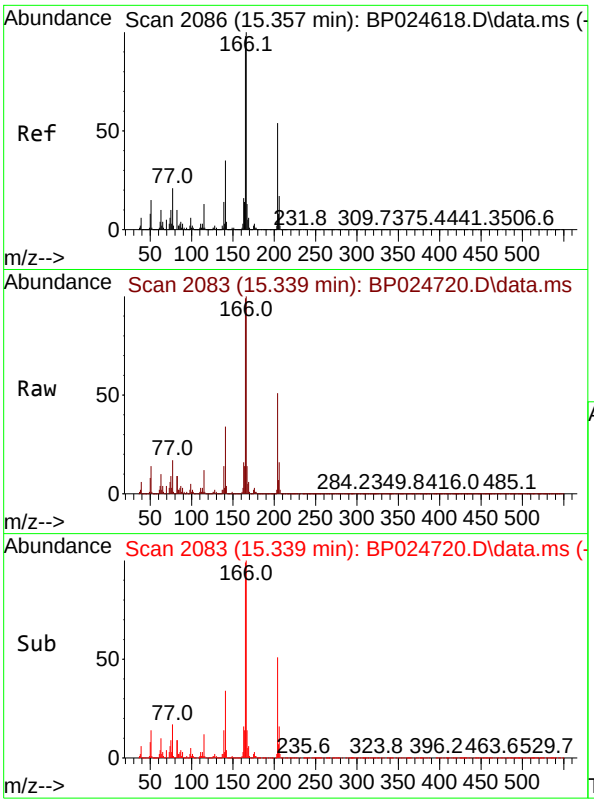


#60
Diethylphthalate
Concen: 38.724 ng
RT: 15.122 min Scan# 2046
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:149 Resp: 817797

Ion	Ratio	Lower	Upper
149	100		
177	21.5	16.7	25.1
150	12.5	10.2	15.2



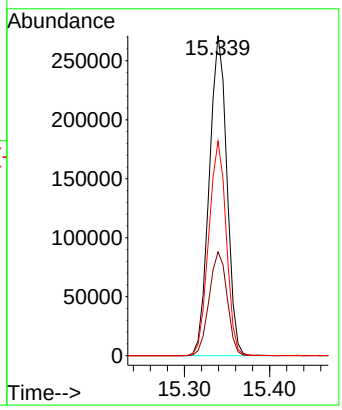


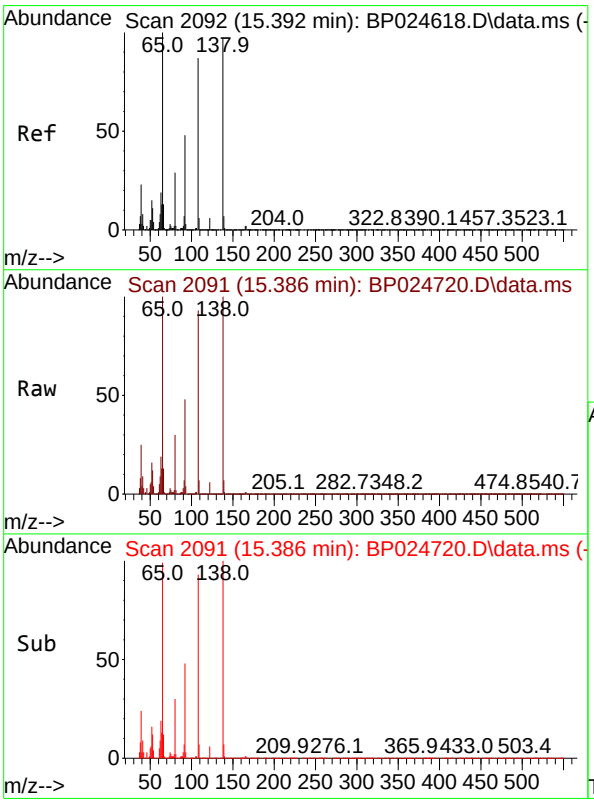
#61
4-Chlorophenyl-phenylether
Concen: 40.389 ng
RT: 15.339 min Scan# 2
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 389358

Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.0	39.0
141	67.0	52.9	79.3

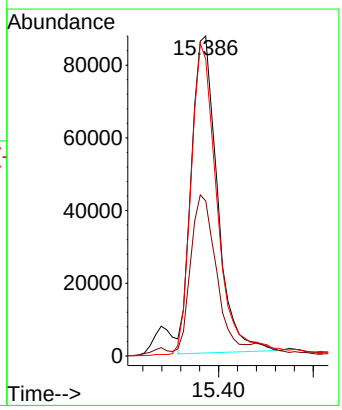


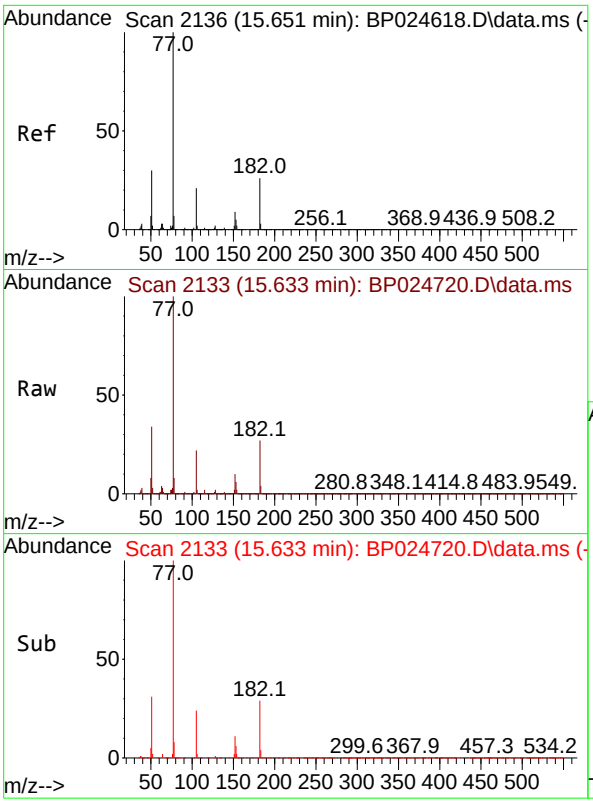


#62
4-Nitroaniline
Concen: 38.099 ng
RT: 15.386 min Scan# 2091
Delta R.T. -0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:138 Resp: 165759

Ion	Ratio	Lower	Upper
138	100		
92	48.4	29.2	69.2
108	92.8	69.0	109.0



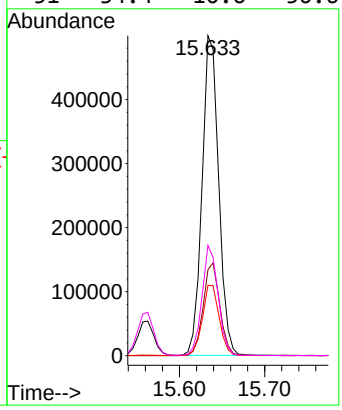


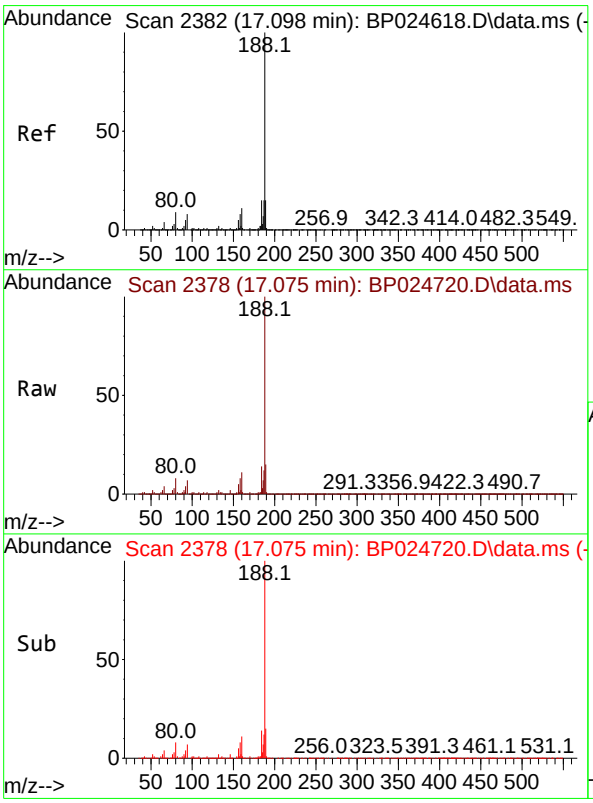
#63
Azobenzene
Concen: 37.381 ng
RT: 15.633 min Scan# 21
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 675333

Ion	Ratio	Lower	Upper
77	100		
182	26.9	5.7	45.7
105	22.0	1.3	41.3
51	34.4	10.6	50.6

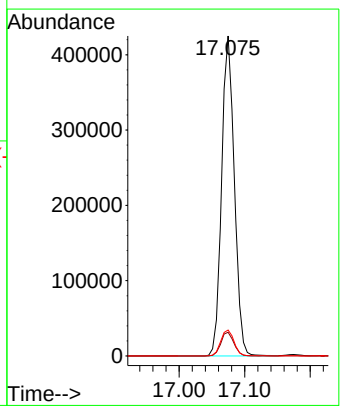


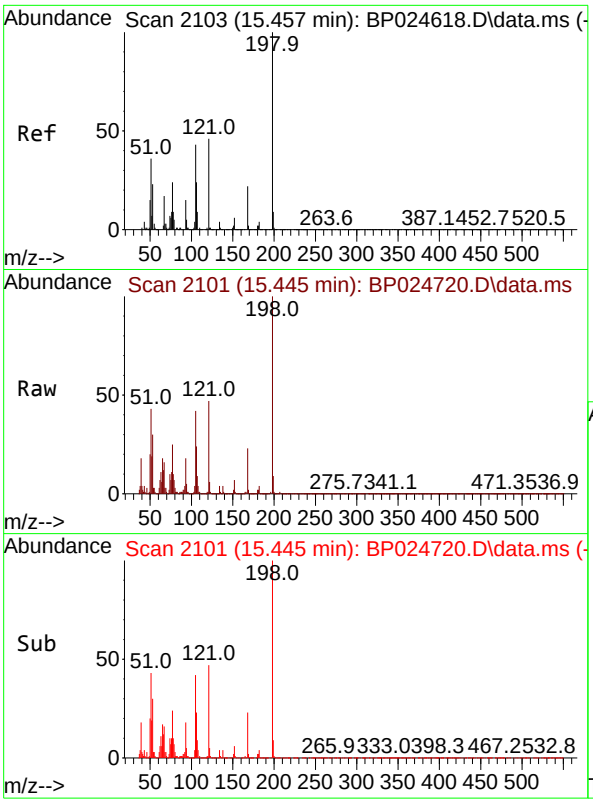


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.075 min Scan# 2378
Delta R.T. -0.024 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:188 Resp: 569223

Ion	Ratio	Lower	Upper
188	100		
94	7.4	6.5	9.7
80	8.1	7.3	10.9



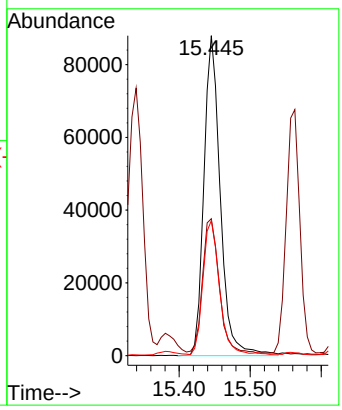


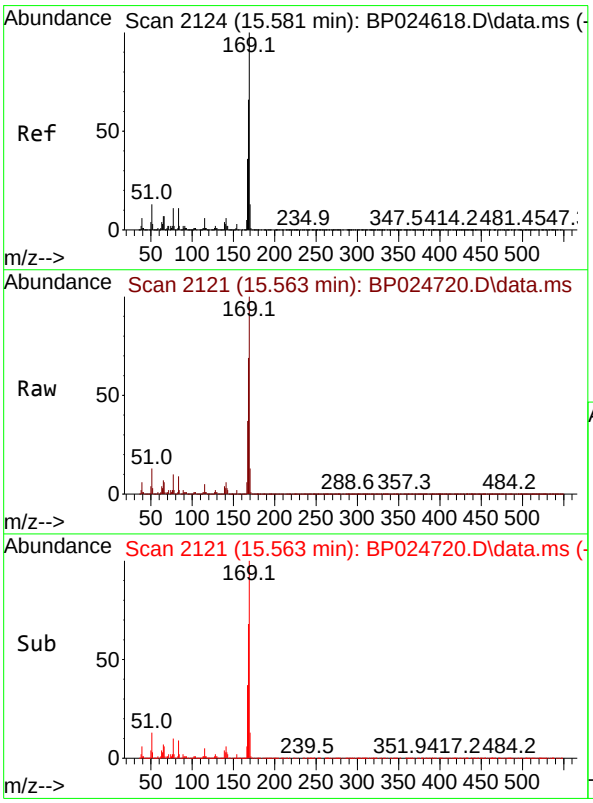
#65
4,6-Dinitro-2-methylphenol
Concen: 38.423 ng
RT: 15.445 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 141275

Ion	Ratio	Lower	Upper
198	100		
51	42.8	21.1	61.1
105	42.2	23.6	63.6

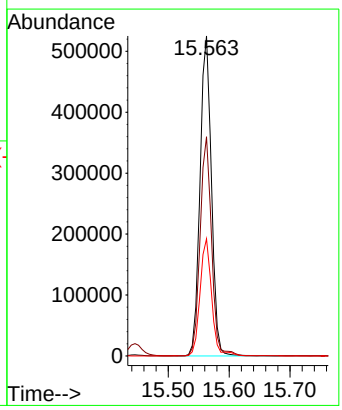


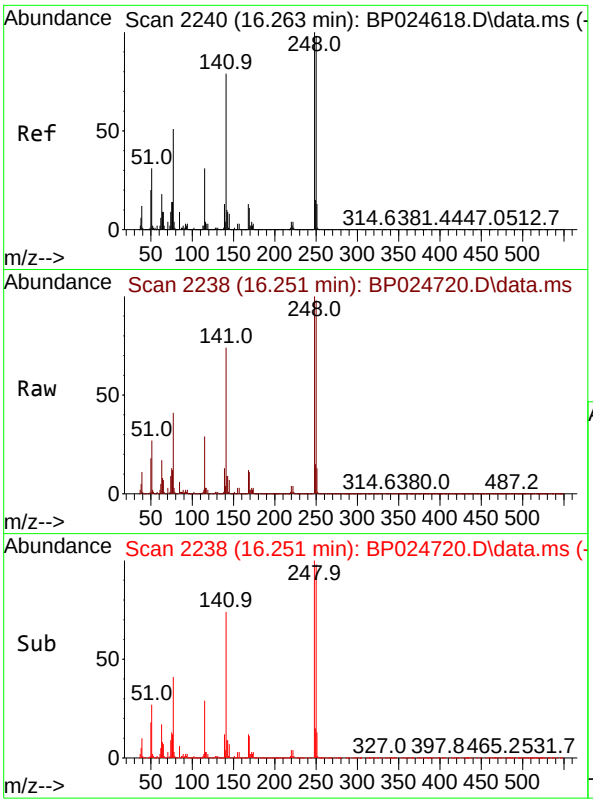


#66
n-Nitrosodiphenylamine
Concen: 38.942 ng
RT: 15.563 min Scan# 2121
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:169 Resp: 680874

Ion	Ratio	Lower	Upper
169	100		
168	68.5	53.2	79.8
167	36.6	28.6	43.0



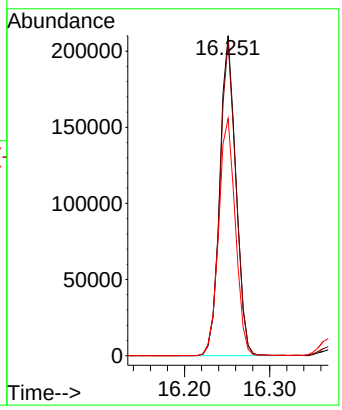


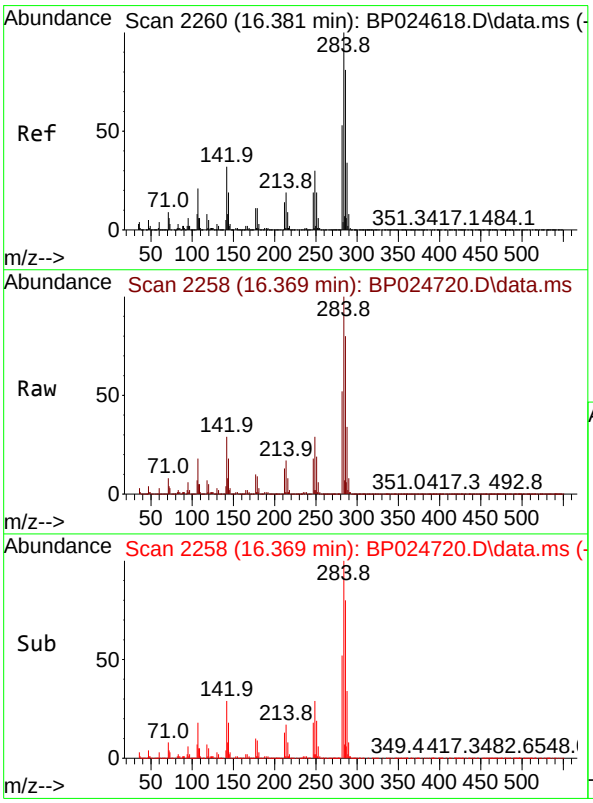
#67
4-Bromophenyl-phenylether
Concen: 41.031 ng
RT: 16.251 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 275214

Ion	Ratio	Lower	Upper
248	100		
250	98.2	78.2	117.4
141	74.1	63.0	94.6

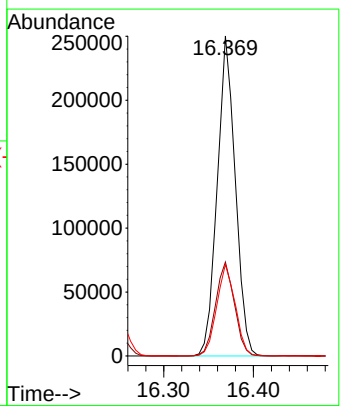


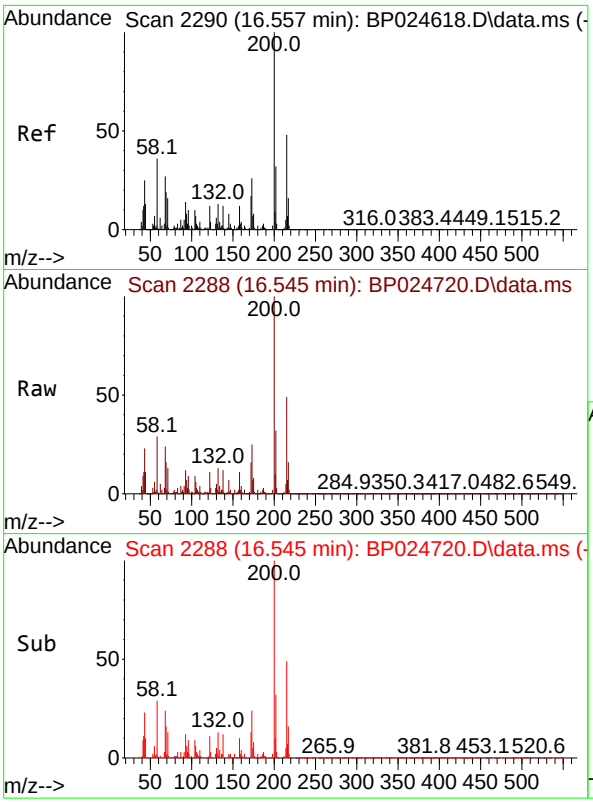


#68
Hexachlorobenzene
Concen: 41.050 ng
RT: 16.369 min Scan# 2258
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:284 Resp: 349866

Ion	Ratio	Lower	Upper
284	100		
142	29.4	25.9	38.9
249	28.6	24.1	36.1



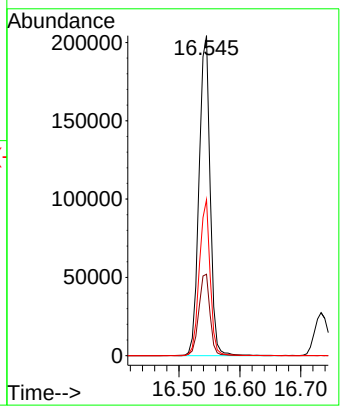


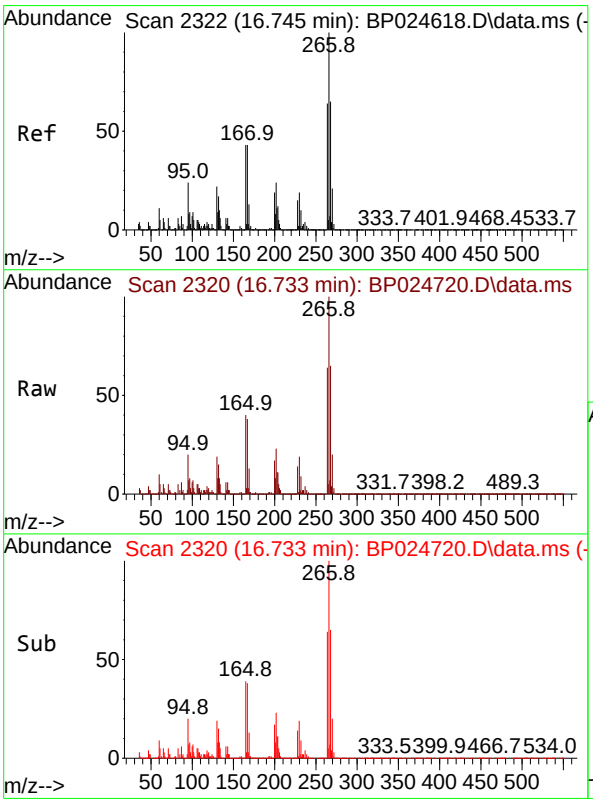
#69
Atrazine
Concen: 40.324 ng
RT: 16.545 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 258379

Ion	Ratio	Lower	Upper
200	100		
173	25.5	5.9	45.9
215	48.8	28.3	68.3

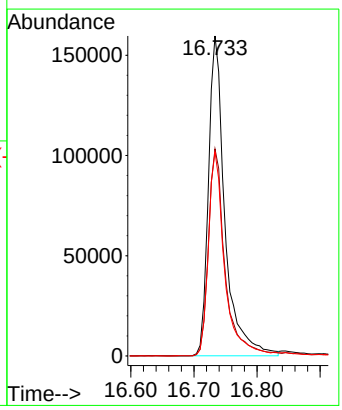


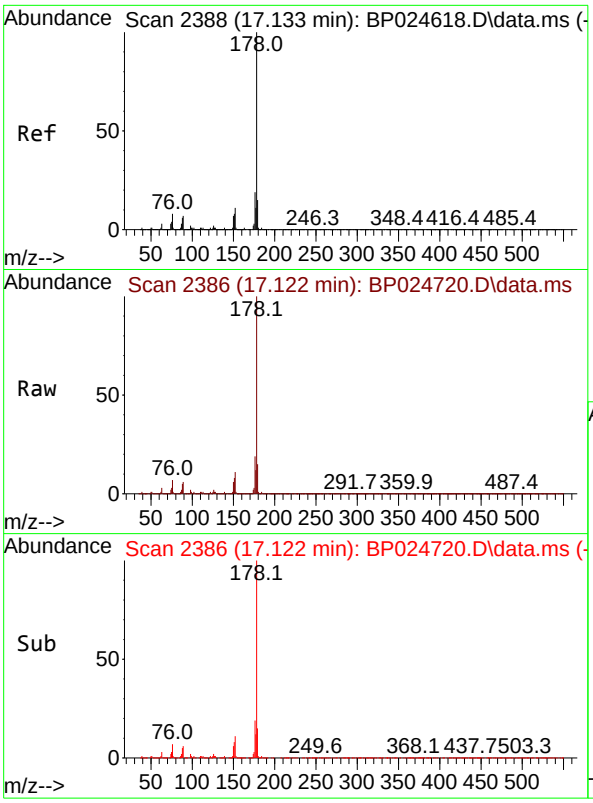


#70
Pentachlorophenol
Concen: 60.567 ng
RT: 16.733 min Scan# 2320
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:266 Resp: 289776

Ion	Ratio	Lower	Upper
266	100		
268	64.7	52.2	78.4
264	63.7	51.1	76.7



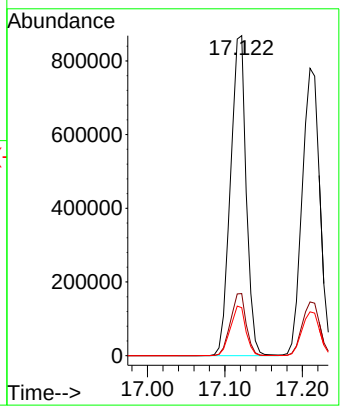


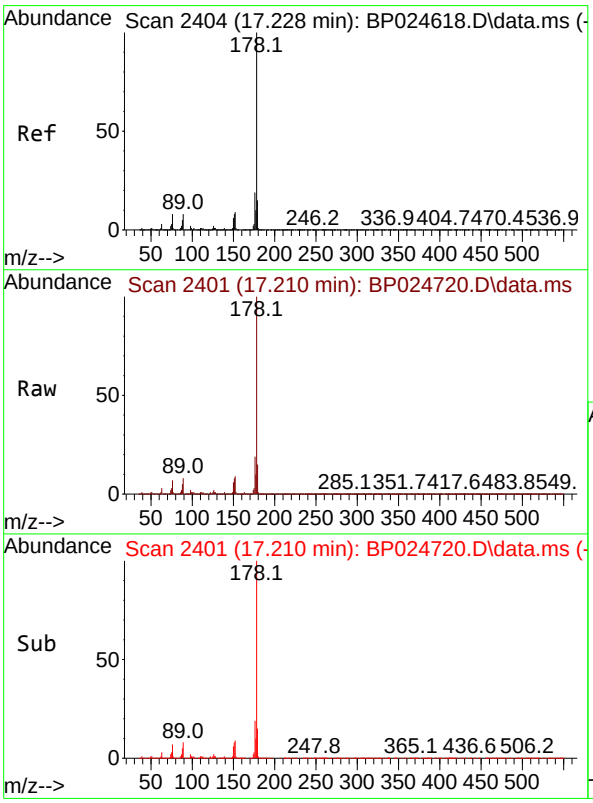
#71
Phenanthrene
Concen: 38.831 ng
RT: 17.122 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 1228776

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.0	12.2	18.4

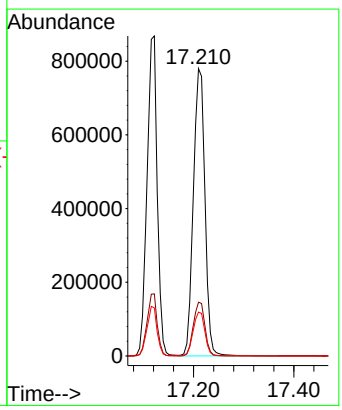


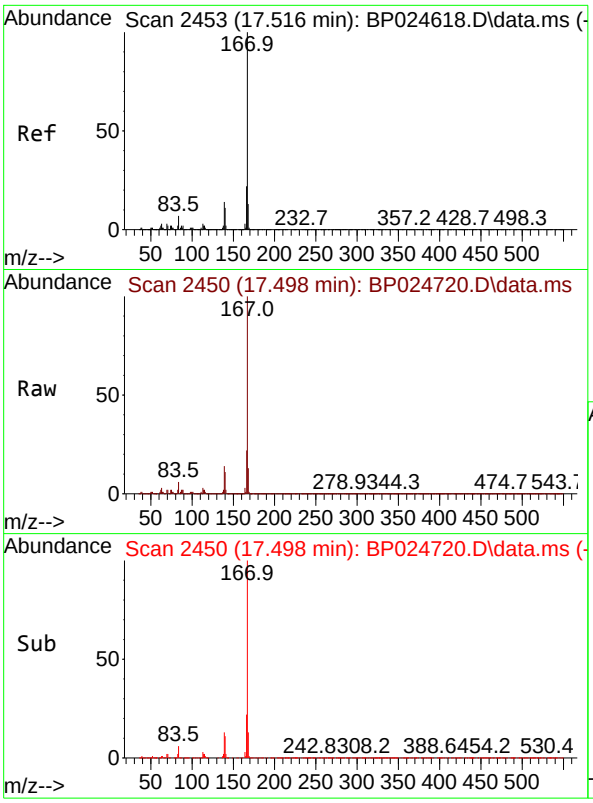


#72
Anthracene
Concen: 39.167 ng
RT: 17.210 min Scan# 2401
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:178 Resp: 1246958

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.3	12.2	18.2



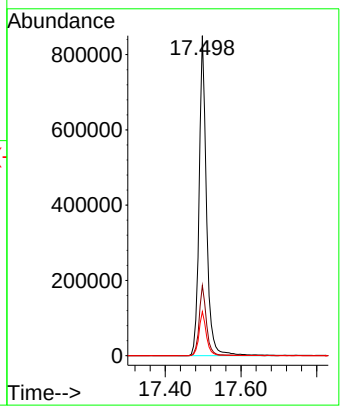


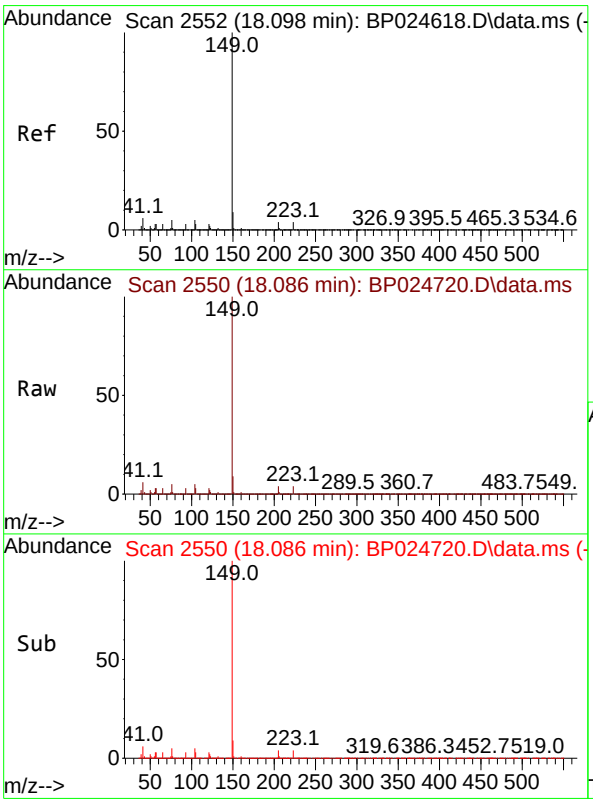
#73
Carbazole
Concen: 39.849 ng
RT: 17.498 min Scan# 24
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 1148299

Ion	Ratio	Lower	Upper
167	100		
166	21.9	17.7	26.5
139	13.8	11.3	16.9

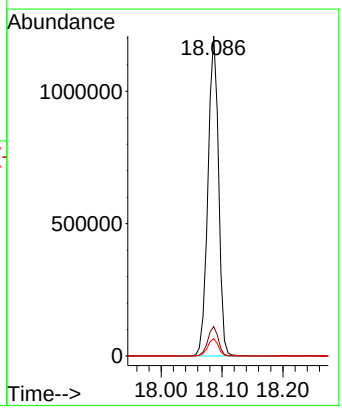


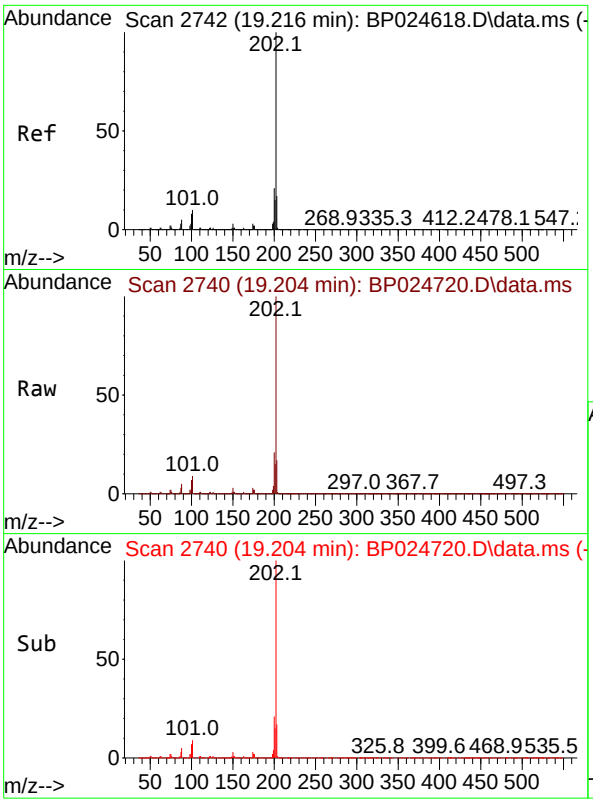


#74
Di-n-butylphthalate
Concen: 39.466 ng
RT: 18.086 min Scan# 2550
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:149 Resp: 1462603

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	5.4	4.3	6.5



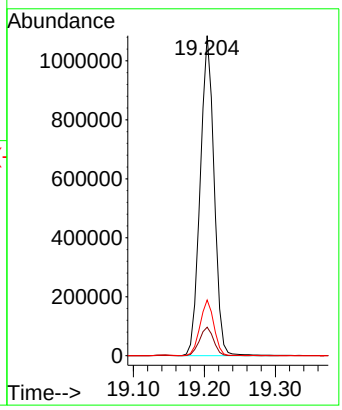


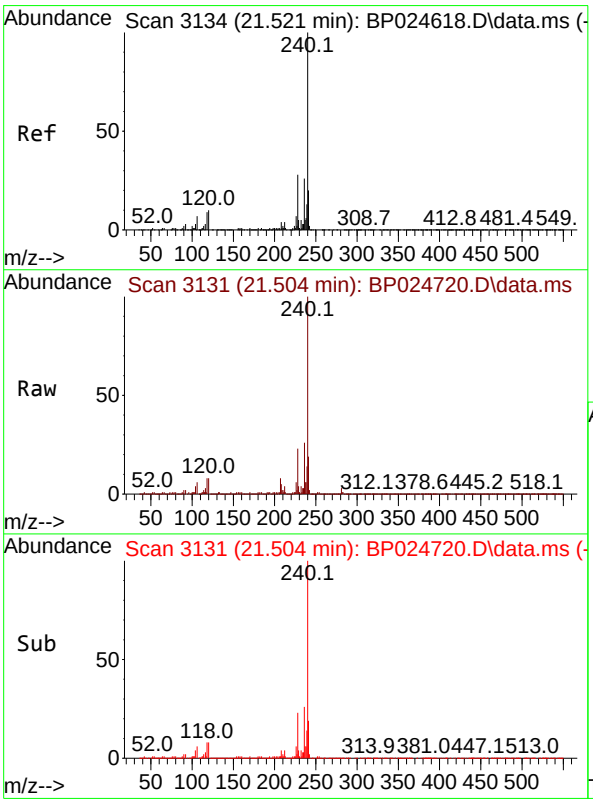
#75
Fluoranthene
Concen: 40.042 ng
RT: 19.204 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 1481148

Ion	Ratio	Lower	Upper
202	100		
101	8.9	0.0	30.3
203	17.4	0.0	37.5

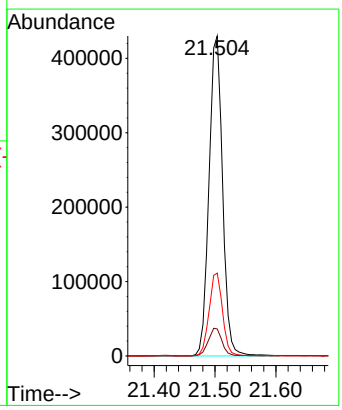


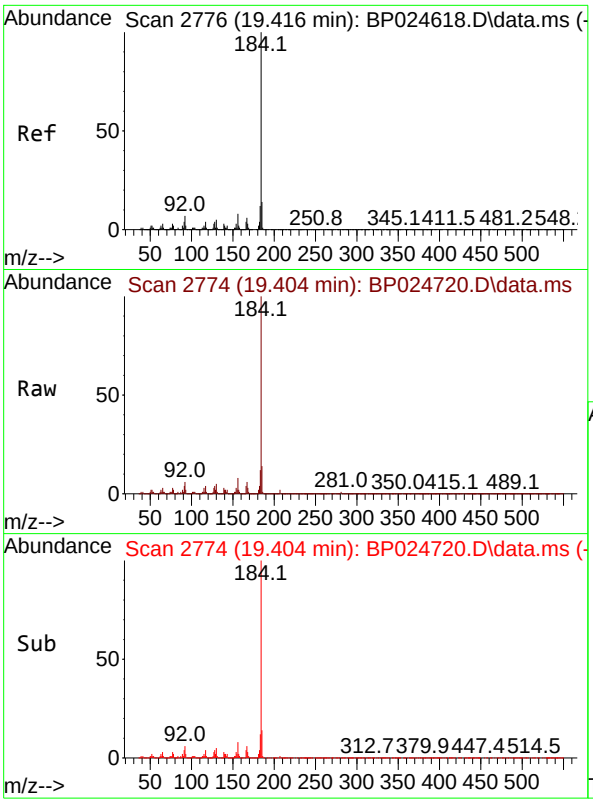


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.504 min Scan# 3131
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:240 Resp: 664451

Ion	Ratio	Lower	Upper
240	100		
120	8.5	7.8	11.6
236	25.9	20.6	31.0



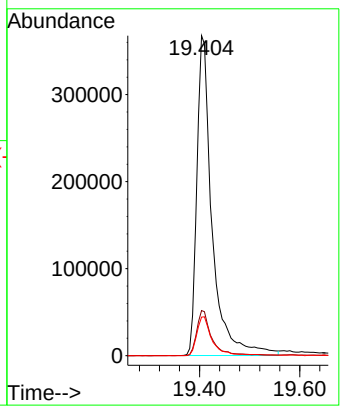


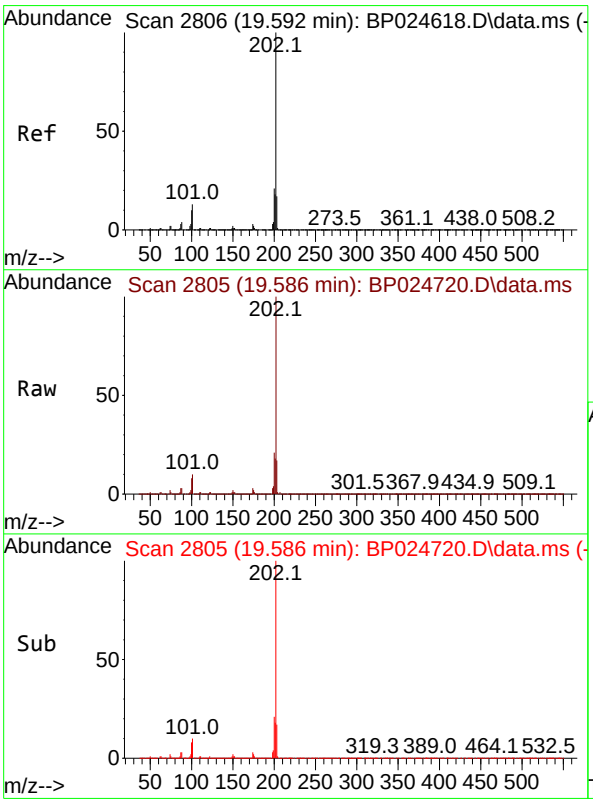
#77
Benzidine
Concen: 42.810 ng
RT: 19.404 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 774737

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.2	16.8
183	12.0	9.8	14.8

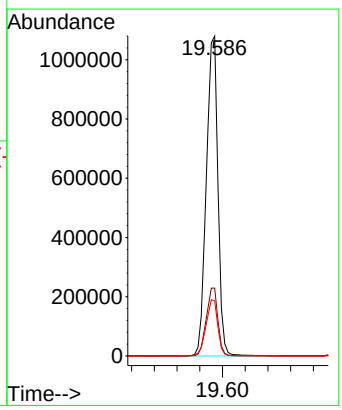


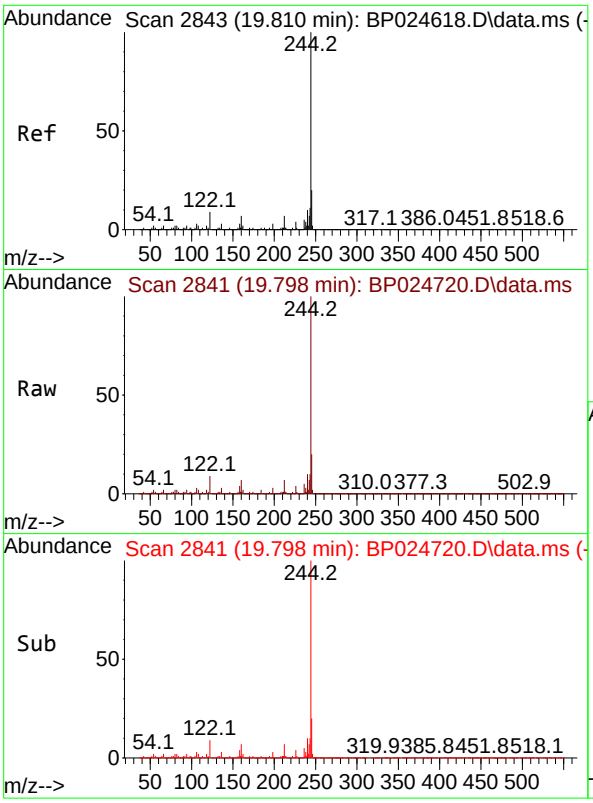


#78
Pyrene
Concen: 38.211 ng
RT: 19.586 min Scan# 2805
Delta R.T. -0.006 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:202 Resp: 1521266

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.2	13.9	20.9



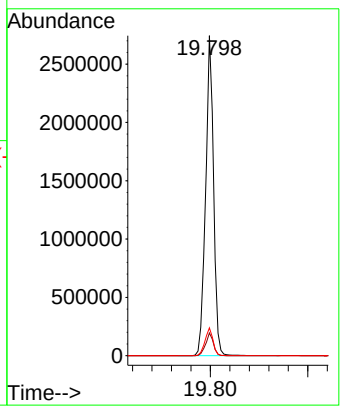


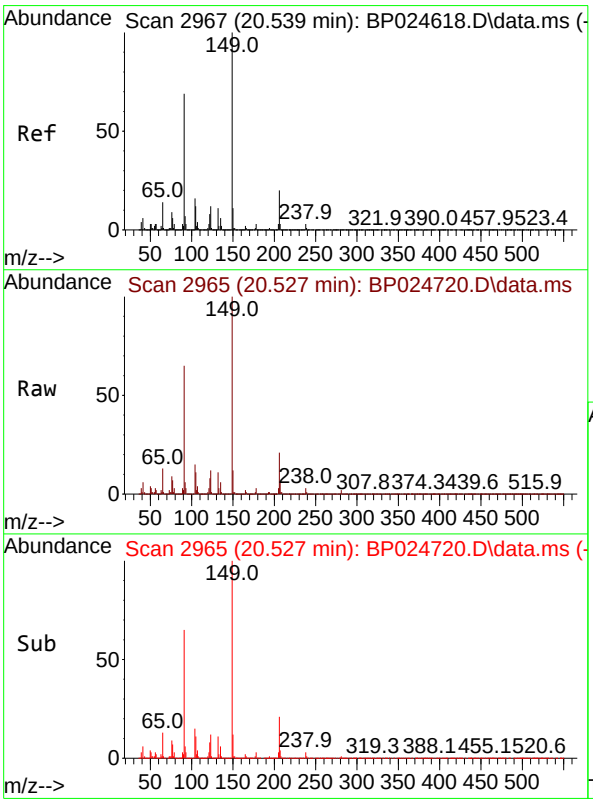
#79
Terphenyl-d14
Concen: 79.644 ng
RT: 19.798 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 3086226

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.5	8.3
122	8.7	7.4	11.0

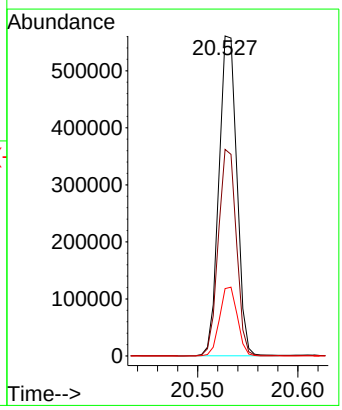


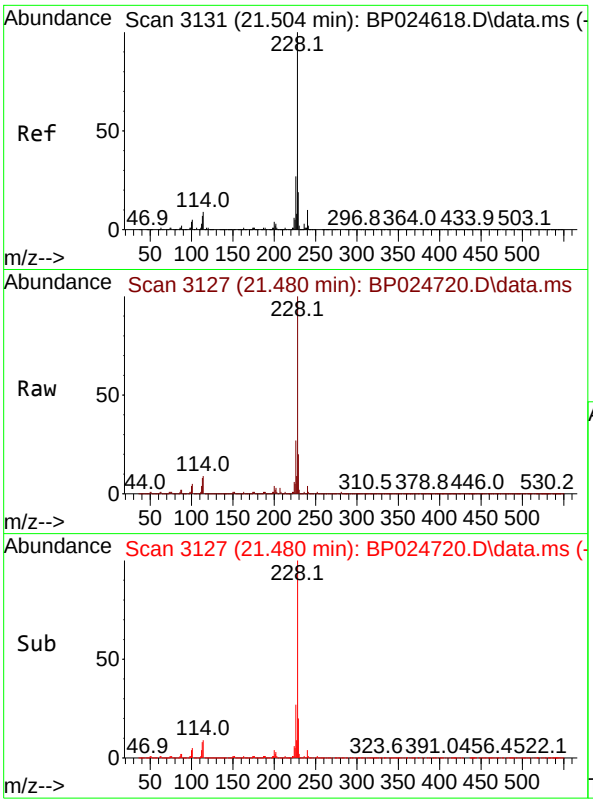


#80
Butylbenzylphthalate
Concen: 39.253 ng
RT: 20.527 min Scan# 2965
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:149 Resp: 695026

Ion	Ratio	Lower	Upper
149	100		
91	64.5	55.4	83.0
206	21.0	16.2	24.2



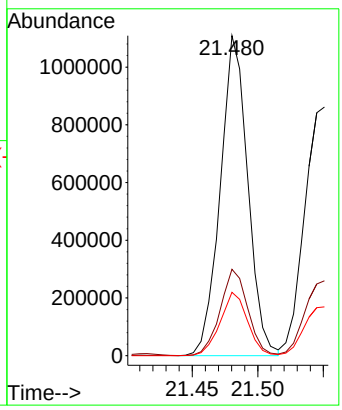


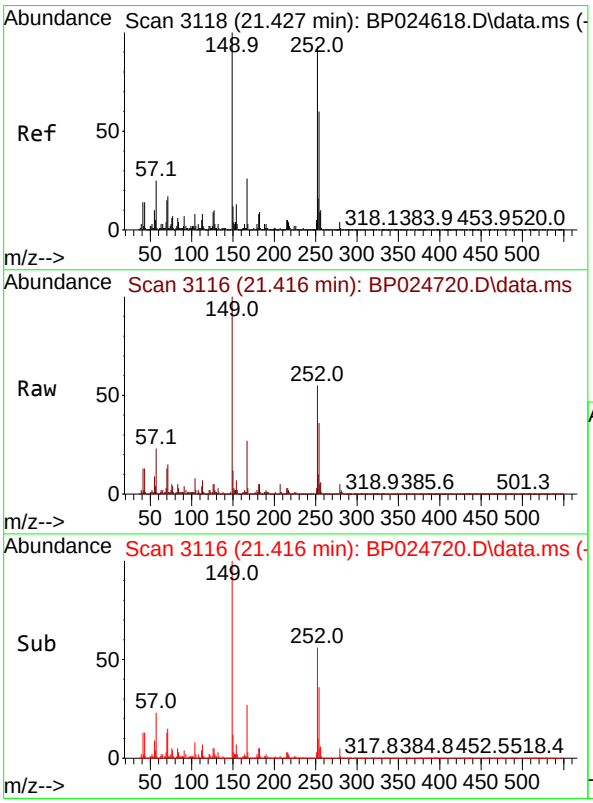
#81
Benzo(a)anthracene
Concen: 38.824 ng
RT: 21.480 min Scan# 3
Delta R.T. -0.024 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1619787

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.4	32.0
229	19.8	15.5	23.3

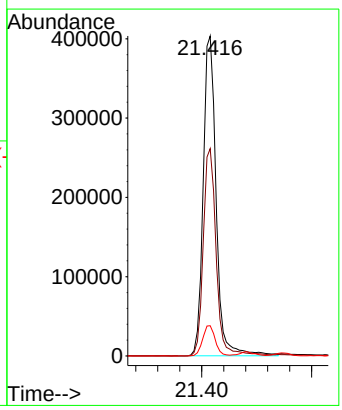


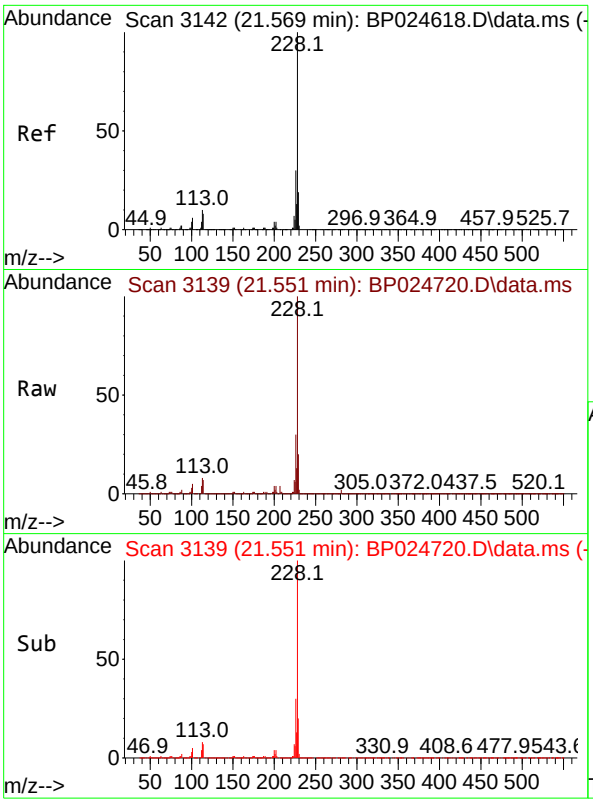


#82
3,3'-Dichlorobenzidine
Concen: 42.628 ng
RT: 21.416 min Scan# 3116
Delta R.T. -0.012 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:252 Resp: 660583

Ion	Ratio	Lower	Upper
252	100		
254	64.8	51.8	77.6
126	9.5	7.7	11.5



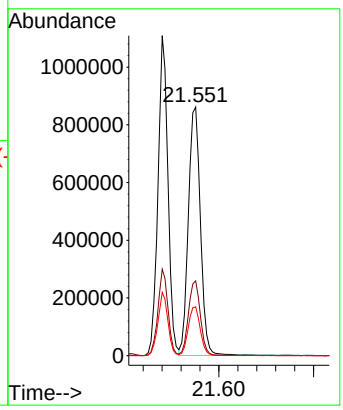


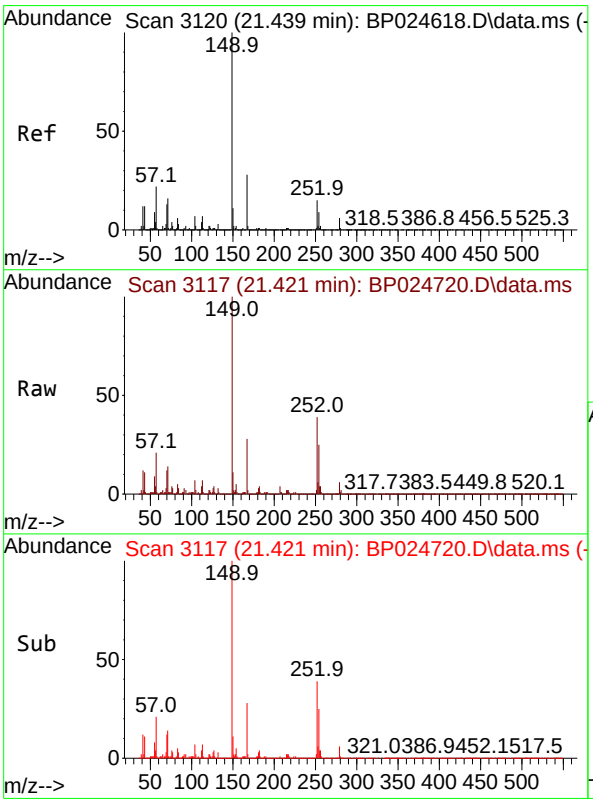
#83
Chrysene
Concen: 38.711 ng
RT: 21.551 min Scan# 31
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 1531024

Ion	Ratio	Lower	Upper
228	100		
226	30.1	23.9	35.9
229	19.6	15.5	23.3

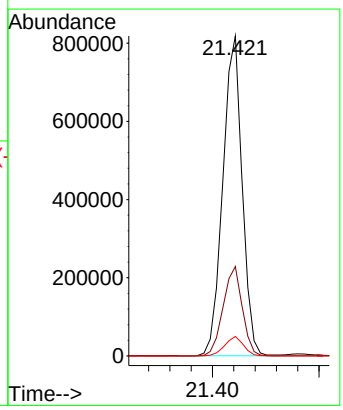


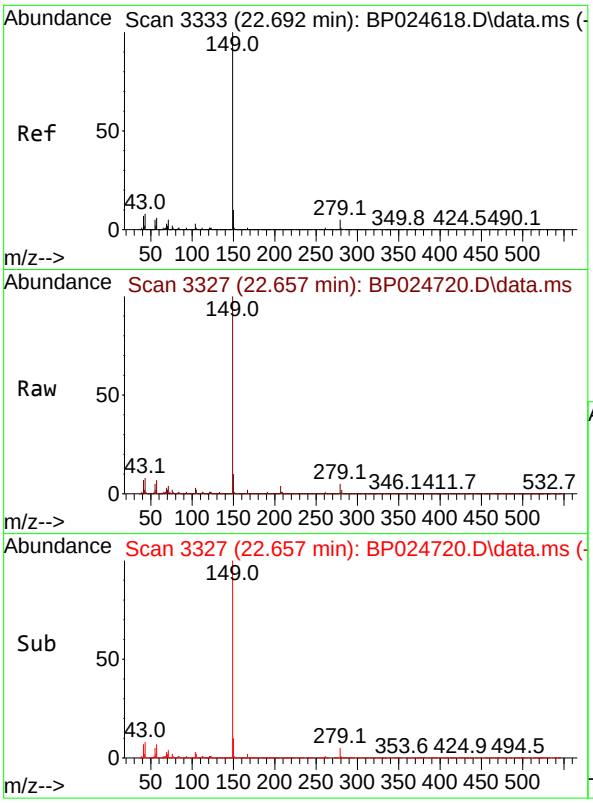


#84
Bis(2-ethylhexyl)phthalate
Concen: 39.411 ng
RT: 21.421 min Scan# 3117
Delta R.T. -0.018 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:149 Resp: 1025677

Ion	Ratio	Lower	Upper
149	100		
167	28.0	22.1	33.1
279	6.1	4.6	6.8



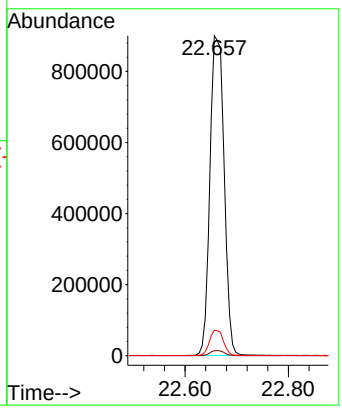


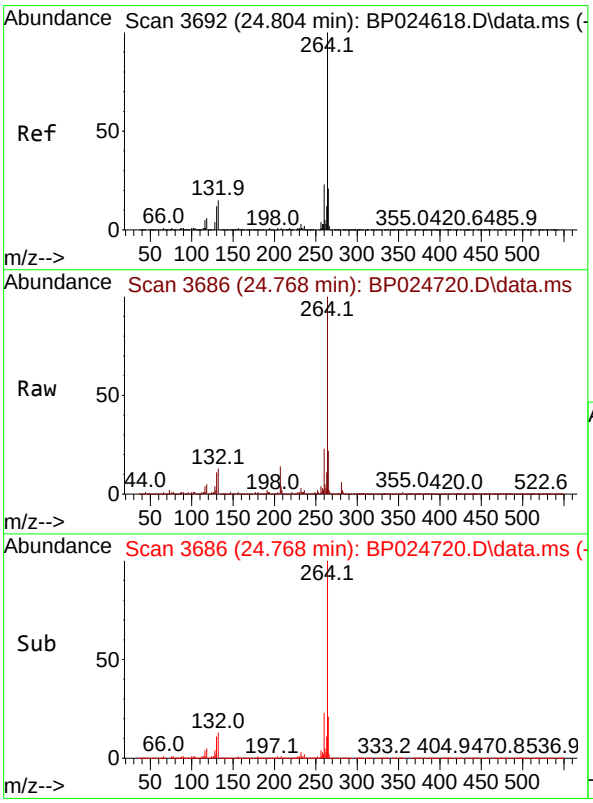
#85
Di-n-octyl phthalate
Concen: 40.346 ng
RT: 22.657 min Scan# 3
Delta R.T. -0.035 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 1717029

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.8	6.3	9.5

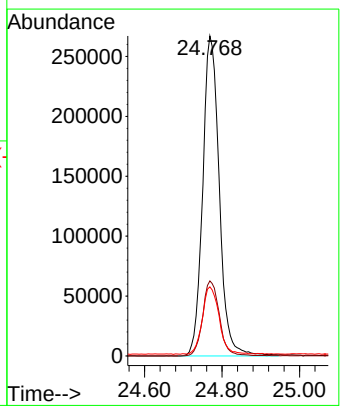


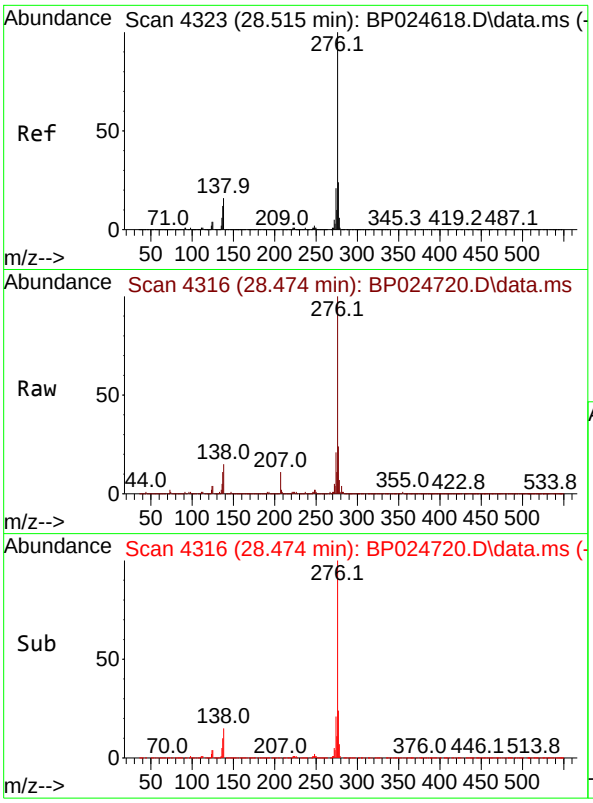


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.768 min Scan# 3686
Delta R.T. -0.035 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:264 Resp: 794762

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.7	28.1
265	21.6	17.0	25.6



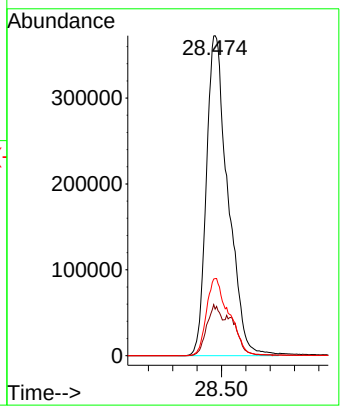


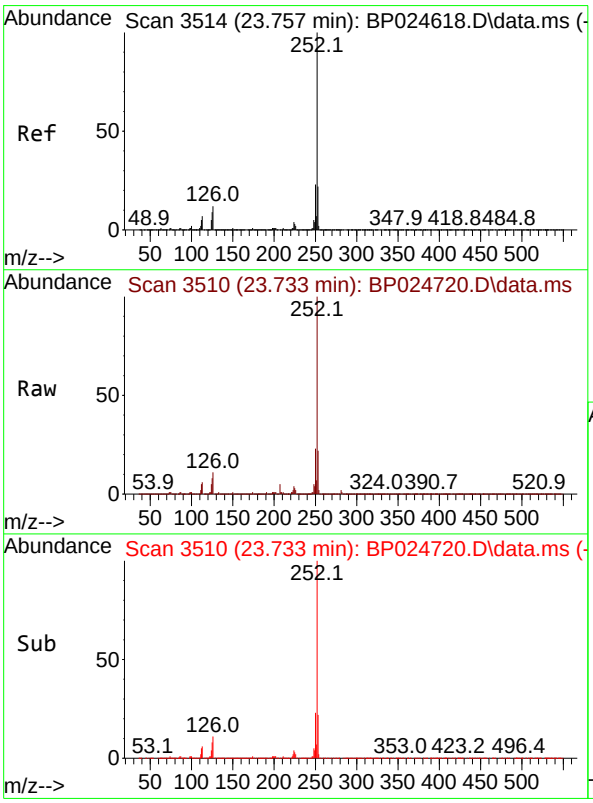
#87
Indeno(1,2,3-cd)pyrene
Concen: 39.513 ng
RT: 28.474 min Scan# 4
Delta R.T. -0.041 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 2292658

Ion	Ratio	Lower	Upper
276	100		
138	11.0	11.2	16.8#
277	25.5	15.7	23.5#

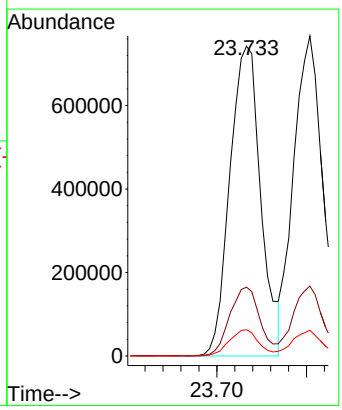


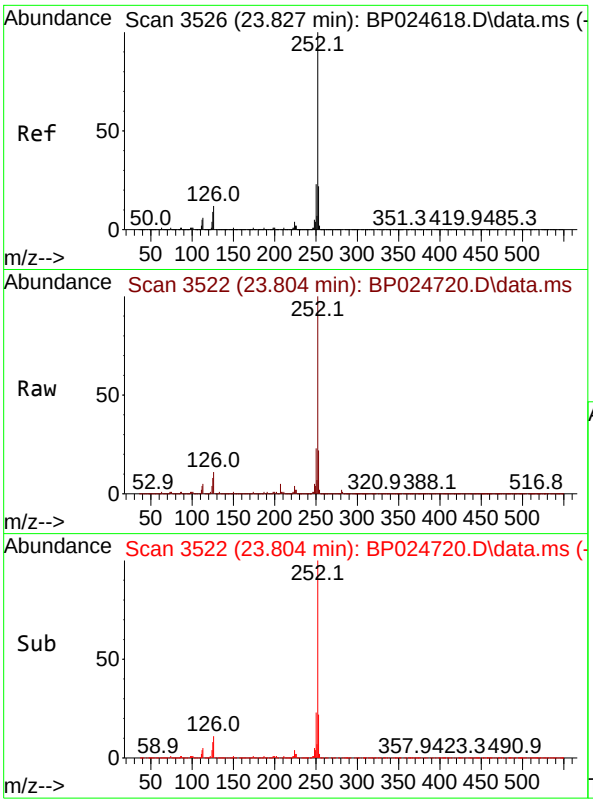


#88
Benzo(b)fluoranthene
Concen: 39.034 ng
RT: 23.733 min Scan# 3510
Delta R.T. -0.024 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:252 Resp: 1775675

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.7	26.5
125	8.5	7.5	11.3



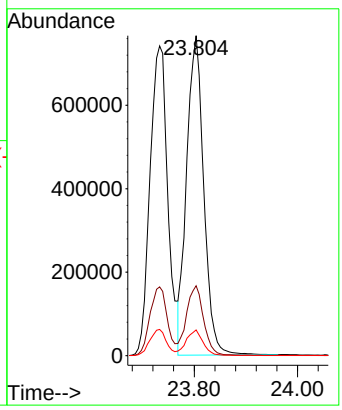


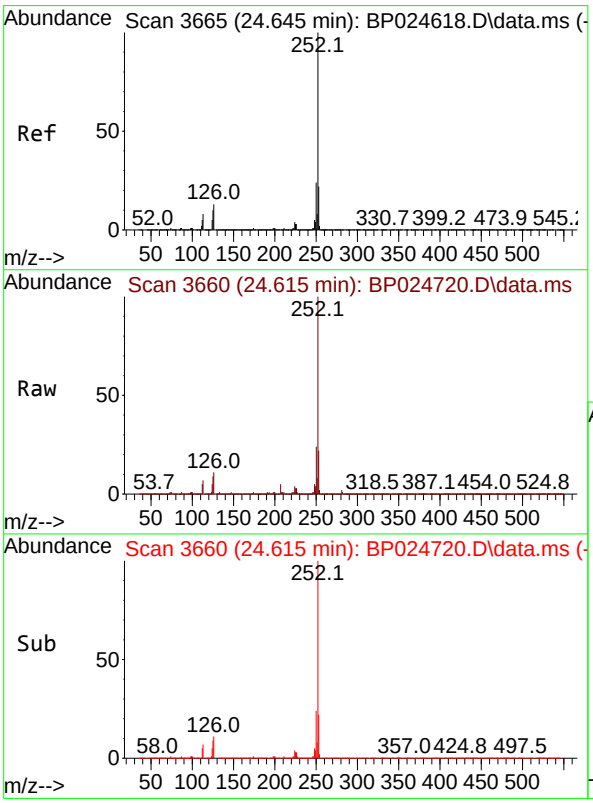
#89
Benzo(k)fluoranthene
Concen: 37.579 ng
RT: 23.804 min Scan# 3
Delta R.T. -0.024 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 1761521

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.6	26.4
125	8.0	7.0	10.4

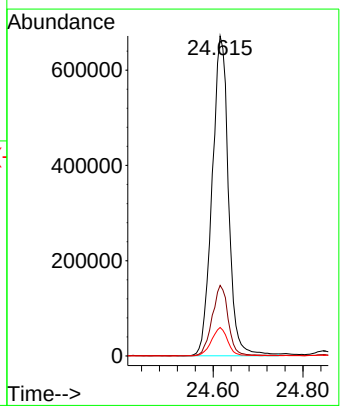


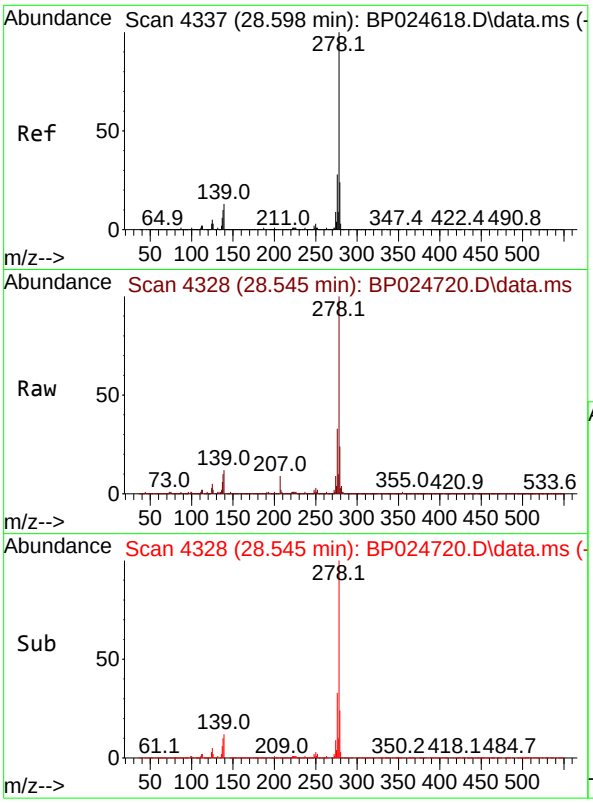


#90
Benzo(a)pyrene
Concen: 38.875 ng
RT: 24.615 min Scan# 3660
Delta R.T. -0.030 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:252 Resp: 1698469

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	8.9	8.1	12.1



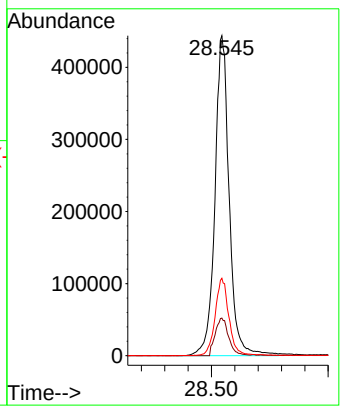


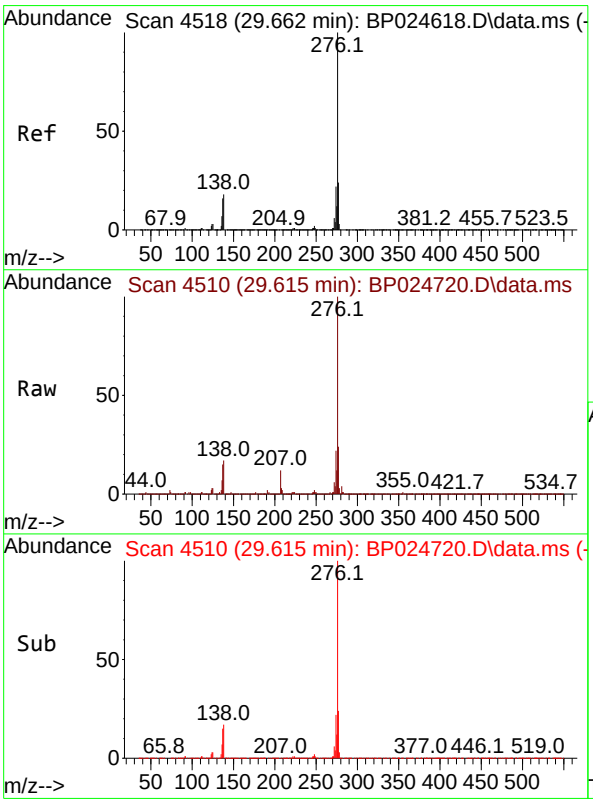
#91
Dibenzo(a,h)anthracene
Concen: 39.902 ng
RT: 28.545 min Scan# 4
Delta R.T. -0.053 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 1883487

Ion	Ratio	Lower	Upper
278	100		
139	11.8	10.2	15.4
279	24.2	19.0	28.4

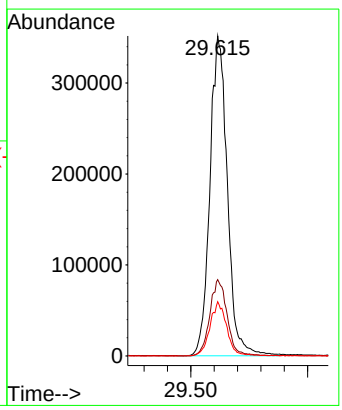




#92
Benzo(g,h,i)perylene
Concen: 38.896 ng
RT: 29.615 min Scan# 4510
Delta R.T. -0.047 min
Lab File: BP024720.D
Acq: 21 May 2025 00:47

Tgt Ion:276 Resp: 1825835

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.0	28.4
138	17.0	14.4	21.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024720.D
Acq On : 21 May 2025 00:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 01:28:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	84	-0.01
2		1,4-Dioxane	0.549	0.470	14.4	78	0.00
3		Pyridine	1.218	1.025	15.8	72	0.00
4		n-Nitrosodimethylamine	0.538	0.491	8.7	79	0.00
5	S	2-Fluorophenol	1.169	1.054	9.8	80	0.00
6		Aniline	1.927	1.707	11.4	75	-0.01
7	S	Phenol-d6	1.492	1.367	8.4	78	0.00
8		2-Chlorophenol	1.327	1.256	5.4	81	0.00
9		Benzaldehyde	0.966	0.867	10.2	76	-0.01
10	C	Phenol	1.540	1.370	11.0	76	0.00
11		bis(2-Chloroethyl)ether	1.266	1.070	15.5	74	-0.01
12		1,3-Dichlorobenzene	1.527	1.445	5.4	84	-0.01
13	C	1,4-Dichlorobenzene	1.536	1.469	4.4	84	-0.01
14		1,2-Dichlorobenzene	1.497	1.405	6.1	83	-0.01
15		Benzyl Alcohol	1.134	1.062	6.3	77	0.00
16		2,2'-oxybis(1-Chloropropane	1.516	1.316	13.2	75	-0.02
17		2-Methylphenol	1.105	1.040	5.9	79	0.00
18		Hexachloroethane	0.589	0.523	11.2	80	-0.01
19	P	n-Nitroso-di-n-propylamine	1.032	0.848	17.8	68	0.00
20		3+4-Methylphenols	1.503	1.313	12.6	73	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	80	-0.01
22		Acetophenone	0.500	0.433	13.4	71	0.00
23	S	Nitrobenzene-d5	0.396	0.340	14.1	71	-0.01
24		Nitrobenzene	0.348	0.295	15.2	70	0.00
25		Isophorone	0.687	0.576	16.2	68	-0.01
26	C	2-Nitrophenol	0.171	0.171	0.0	79	-0.01
27		2,4-Dimethylphenol	0.301	0.284	5.6	76	0.00
28		bis(2-Chloroethoxy)methane	0.410	0.350	14.6	70	-0.01
29	C	2,4-Dichlorophenol	0.292	0.287	1.7	78	0.00
30		1,2,4-Trichlorobenzene	0.329	0.324	1.5	84	-0.01
31		Naphthalene	1.036	0.994	4.1	81	-0.01
32		Benzoic acid	0.181	0.163	9.9	68	0.02
33		4-Chloroaniline	0.418	0.414	1.0	79	0.00
34	C	Hexachlorobutadiene	0.213	0.216	-1.4	87	-0.01
35		Caprolactam	0.106	0.100	5.7	73	0.00
36	C	4-Chloro-3-methylphenol	0.356	0.345	3.1	77	0.00
37		2-Methylnaphthalene	0.671	0.647	3.6	81	-0.01
38		1-Methylnaphthalene	0.718	0.690	3.9	80	-0.01
39	I	Acenaphthene-d10	1.000	1.000	0.0	76	-0.02
40		1,2,4,5-Tetrachlorobenzene	0.581	0.599	-3.1	82	-0.01
41	P	Hexachlorocyclopentadiene	0.352	0.376	-6.8	80	-0.02
42	S	2,4,6-Tribromophenol	0.339	0.379	-11.8	89	0.00
43	C	2,4,6-Trichlorophenol	0.376	0.393	-4.5	80	0.00
44		2,4,5-Trichlorophenol	0.419	0.437	-4.3	82	0.00
45	S	2-Fluorobiphenyl	1.527	1.549	-1.4	82	-0.01
46		1,1'-Biphenyl	1.478	1.461	1.2	80	-0.01
47		2-Chloronaphthalene	1.127	1.130	-0.3	80	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024720.D
Acq On : 21 May 2025 00:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 01:28:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	0.334	0.332	0.6	75	-0.01
49		Acenaphthylene	1.886	1.829	3.0	77	-0.02
50		Dimethylphthalate	1.524	1.475	3.2	77	-0.02
51		2,6-Dinitrotoluene	0.322	0.325	-0.9	79	-0.02
52	C	Acenaphthene	1.084	1.052	3.0	77	-0.02
53		3-Nitroaniline	0.329	0.320	2.7	71	-0.01
54	P	2,4-Dinitrophenol	0.169	0.158	6.5	70	0.00
55		Dibenzofuran	1.730	1.641	5.1	76	-0.01
56	P	4-Nitrophenol	0.250	0.328	-31.2#	97	0.02
57		2,4-Dinitrotoluene	0.454	0.456	-0.4	76	-0.02
58		Fluorene	1.410	1.407	0.2	80	-0.02
59		2,3,4,6-Tetrachlorophenol	0.388	0.393	-1.3	79	-0.01
60		Diethylphthalate	1.541	1.492	3.2	78	-0.02
61		4-Chlorophenyl-phenylether	0.703	0.710	-1.0	82	-0.02
62		4-Nitroaniline	0.317	0.302	4.7	69	0.00
63		Azobenzene	1.318	1.232	6.5	75	-0.02
64	I	Phenanthrene-d10	1.000	1.000	0.0	79	-0.02
65		4,6-Dinitro-2-methylphenol	0.129	0.124	3.9	77	-0.01
66	c	n-Nitrosodiphenylamine	0.614	0.598	2.6	80	-0.02
67		4-Bromophenyl-phenylether	0.236	0.242	-2.5	85	-0.01
68		Hexachlorobenzene	0.299	0.307	-2.7	87	-0.01
69		Atrazine	0.225	0.227	-0.9	83	-0.01
70	C	Pentachlorophenol	0.168	0.255	-51.8#	117	-0.01
71		Phenanthrene	1.112	1.079	3.0	82	-0.01
72		Anthracene	1.119	1.095	2.1	81	-0.02
73		Carbazole	1.012	1.009	0.3	80	-0.02
74		Di-n-butylphthalate	1.302	1.285	1.3	81	-0.01
75	C	Fluoranthene	1.300	1.301	-0.1	83	-0.01
76	I	Chrysene-d12	1.000	1.000	0.0	82	-0.02
77		Benzidine	0.545	0.583	-7.0	85	-0.01
78		Pyrene	1.198	1.145	4.4	81	0.00
79	S	Terphenyl-d14	1.166	1.161	0.4	85	-0.01
80		Butylbenzylphthalate	0.533	0.523	1.9	81	-0.01
81		Benzo(a)anthracene	1.256	1.219	2.9	83	-0.02
82		3,3'-Dichlorobenzidine	0.466	0.497	-6.7	85	-0.01
83		Chrysene	1.190	1.152	3.2	83	-0.02
84		Bis(2-ethylhexyl)phthalate	0.783	0.772	1.4	83	-0.02
85	c	Di-n-octyl phthalate	1.281	1.292	-0.9	83	-0.04
86	I	Perylene-d12	1.000	1.000	0.0	85	-0.04
87		Indeno(1,2,3-cd)pyrene	1.460	1.442	1.2	87	-0.04
88		Benzo(b)fluoranthene	1.145	1.117	2.4	87	-0.02
89		Benzo(k)fluoranthene	1.180	1.108	6.1	83	-0.02
90	C	Benzo(a)pyrene	1.099	1.069	2.7	86	-0.03
91		Dibenzo(a,h)anthracene	1.188	1.185	0.3	87	-0.05
92		Benzo(g,h,i)perylene	1.181	1.149	2.7	86	-0.05

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024720.D
Acq On : 21 May 2025 00:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 01:28:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024720.D
Acq On : 21 May 2025 00:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 01:28:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	84	-0.01
2		1,4-Dioxane	40.000	34.273	14.3	78	0.00
3		Pyridine	40.000	33.688	15.8	72	0.00
4		n-Nitrosodimethylamine	40.000	36.519	8.7	79	0.00
5	S	2-Fluorophenol	80.000	72.096	9.9	80	0.00
6		Aniline	40.000	35.447	11.4	75	-0.01
7	S	Phenol-d6	80.000	73.286	8.4	78	0.00
8		2-Chlorophenol	40.000	37.847	5.4	81	0.00
9		Benzaldehyde	40.000	35.880	10.3	76	-0.01
10	C	Phenol	40.000	35.587	11.0	76	0.00
11		bis(2-Chloroethyl)ether	40.000	33.800	15.5	74	-0.01
12		1,3-Dichlorobenzene	40.000	37.836	5.4	84	-0.01
13	C	1,4-Dichlorobenzene	40.000	38.245	4.4	84	-0.01
14		1,2-Dichlorobenzene	40.000	37.555	6.1	83	-0.01
15		Benzyl Alcohol	40.000	37.445	6.4	77	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	34.740	13.1	75	-0.02
17		2-Methylphenol	40.000	37.639	5.9	79	0.00
18		Hexachloroethane	40.000	35.564	11.1	80	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	32.847	17.9	68	0.00
20		3+4-Methylphenols	40.000	34.939	12.7	73	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	80	-0.01
22		Acetophenone	40.000	34.655	13.4	71	0.00
23	S	Nitrobenzene-d5	80.000	68.697	14.1	71	-0.01
24		Nitrobenzene	40.000	33.924	15.2	70	0.00
25		Isophorone	40.000	33.534	16.2	68	-0.01
26	C	2-Nitrophenol	40.000	39.990	0.0	79	-0.01
27		2,4-Dimethylphenol	40.000	37.699	5.8	76	0.00
28		bis(2-Chloroethoxy)methane	40.000	34.087	14.8	70	-0.01
29	C	2,4-Dichlorophenol	40.000	39.336	1.7	78	0.00
30		1,2,4-Trichlorobenzene	40.000	39.488	1.3	84	-0.01
31		Naphthalene	40.000	38.363	4.1	81	-0.01
32		Benzoic acid	40.000	33.740	15.6	68	0.02
33		4-Chloroaniline	40.000	39.566	1.1	79	0.00
34	C	Hexachlorobutadiene	40.000	40.662	-1.7	87	-0.01
35		Caprolactam	40.000	38.067	4.8	73	0.00
36	C	4-Chloro-3-methylphenol	40.000	38.840	2.9	77	0.00
37		2-Methylnaphthalene	40.000	38.573	3.6	81	-0.01
38		1-Methylnaphthalene	40.000	38.448	3.9	80	-0.01
39	I	Acenaphthene-d10	20.000	20.000	0.0	76	-0.02
40		1,2,4,5-Tetrachlorobenzene	40.000	41.237	-3.1	82	-0.01
41	P	Hexachlorocyclopentadiene	40.000	42.689	-6.7	80	-0.02
42	S	2,4,6-Tribromophenol	80.000	89.439	-11.8	89	0.00
43	C	2,4,6-Trichlorophenol	40.000	41.821	-4.6	80	0.00
44		2,4,5-Trichlorophenol	40.000	41.765	-4.4	82	0.00
45	S	2-Fluorobiphenyl	80.000	81.193	-1.5	82	-0.01
46		1,1'-Biphenyl	40.000	39.543	1.1	80	-0.01
47		2-Chloronaphthalene	40.000	40.098	-0.2	80	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024720.D
Acq On : 21 May 2025 00:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 01:28:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	39.796	0.5	75	-0.01
49		Acenaphthylene	40.000	38.796	3.0	77	-0.02
50		Dimethylphthalate	40.000	38.694	3.3	77	-0.02
51		2,6-Dinitrotoluene	40.000	40.374	-0.9	79	-0.02
52	C	Acenaphthene	40.000	38.798	3.0	77	-0.02
53		3-Nitroaniline	40.000	38.955	2.6	71	-0.01
54	P	2,4-Dinitrophenol	40.000	35.052	12.4	70	0.00
55		Dibenzofuran	40.000	37.960	5.1	76	-0.01
56	P	4-Nitrophenol	40.000	47.863	-19.7	97	0.02
57		2,4-Dinitrotoluene	40.000	40.200	-0.5	76	-0.02
58		Fluorene	40.000	39.905	0.2	80	-0.02
59		2,3,4,6-Tetrachlorophenol	40.000	40.457	-1.1	79	-0.01
60		Diethylphthalate	40.000	38.724	3.2	78	-0.02
61		4-Chlorophenyl-phenylether	40.000	40.389	-1.0	82	-0.02
62		4-Nitroaniline	40.000	38.099	4.8	69	0.00
63		Azobenzene	40.000	37.381	6.5	75	-0.02
64	I	Phenanthrene-d10	20.000	20.000	0.0	79	-0.02
65		4,6-Dinitro-2-methylphenol	40.000	38.423	3.9	77	-0.01
66	c	n-Nitrosodiphenylamine	40.000	38.942	2.6	80	-0.02
67		4-Bromophenyl-phenylether	40.000	41.031	-2.6	85	-0.01
68		Hexachlorobenzene	40.000	41.050	-2.6	87	-0.01
69		Atrazine	40.000	40.324	-0.8	83	-0.01
70	C	Pentachlorophenol	40.000	60.567	-51.4#	117	-0.01
71		Phenanthrene	40.000	38.831	2.9	82	-0.01
72		Anthracene	40.000	39.167	2.1	81	-0.02
73		Carbazole	40.000	39.849	0.4	80	-0.02
74		Di-n-butylphthalate	40.000	39.466	1.3	81	-0.01
75	C	Fluoranthene	40.000	40.042	-0.1	83	-0.01
76	I	Chrysene-d12	20.000	20.000	0.0	82	-0.02
77		Benzidine	40.000	42.810	-7.0	85	-0.01
78		Pyrene	40.000	38.211	4.5	81	0.00
79	S	Terphenyl-d14	80.000	79.644	0.4	85	-0.01
80		Butylbenzylphthalate	40.000	39.253	1.9	81	-0.01
81		Benzo(a)anthracene	40.000	38.824	2.9	83	-0.02
82		3,3'-Dichlorobenzidine	40.000	42.628	-6.6	85	-0.01
83		Chrysene	40.000	38.711	3.2	83	-0.02
84		Bis(2-ethylhexyl)phthalate	40.000	39.411	1.5	83	-0.02
85	c	Di-n-octyl phthalate	40.000	40.346	-0.9	83	-0.04
86	I	Perylene-d12	20.000	20.000	0.0	85	-0.04
87		Indeno(1,2,3-cd)pyrene	40.000	39.513	1.2	87	-0.04
88		Benzo(b)fluoranthene	40.000	39.034	2.4	87	-0.02
89		Benzo(k)fluoranthene	40.000	37.579	6.1	83	-0.02
90	C	Benzo(a)pyrene	40.000	38.875	2.8	86	-0.03
91		Dibenzo(a,h)anthracene	40.000	39.902	0.2	87	-0.05
92		Benzo(g,h,i)perylene	40.000	38.896	2.8	86	-0.05

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024720.D
Acq On : 21 May 2025 00:47
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 21 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 01:28:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: NOBI03

Lab Code: CHEM Case No.: Q1984 SAS No.: Q1984 SDG No.: Q1984

Instrument ID: BNA_P Calibration Date/Time: 05/21/2025 10:56

Lab File ID: BP024735.D Init. Calib. Date(s): 05/13/2025 05/13/2025

EPA Sample No.: SSTDCCC040EC Init. Calib. Time(s): 10:41 15:26

GC Column: ZB-GR ID: 0.25 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2-Fluorophenol	1.169	1.095		-6.3	50.0
Phenol-d6	1.492	1.348		-9.7	50.0
Nitrobenzene-d5	0.396	0.354		-10.6	50.0
Naphthalene	1.036	0.975		-5.9	50.0
2-Methylnaphthalene	0.671	0.626		-6.7	50.0
2-Fluorobiphenyl	1.527	1.508		-1.2	50.0
Acenaphthylene	1.886	1.779		-5.7	50.0
Acenaphthene	1.084	1.033		-4.7	50.0
Fluorene	1.410	1.333		-5.5	50.0
2,4,6-Tribromophenol	0.339	0.374		10.3	50.0
Phenanthrene	1.112	1.064		-4.3	50.0
Anthracene	1.119	1.078		-3.7	50.0
Fluoranthene	1.300	1.271		-2.2	50.0
Pyrene	1.198	1.128		-5.8	50.0
Terphenyl-d14	1.166	1.159		-0.6	50.0
Benzo(a)anthracene	1.256	1.189		-5.3	50.0
Chrysene	1.190	1.115		-6.3	50.0
Benzo(b)fluoranthene	1.145	1.081		-5.6	50.0
Benzo(k)fluoranthene	1.180	1.121		-5.0	50.0
Benzo(a)pyrene	1.099	1.057		-3.8	50.0
Indeno(1,2,3-cd)pyrene	1.460	1.427		-2.3	50.0
Dibenzo(a,h)anthracene	1.188	1.169		-1.6	50.0
Benzo(g,h,i)perylene	1.181	1.141		-3.4	50.0

All other compounds must meet a minimum RRF of 0.010.

Form VII SV-1

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024735.D
Acq On : 21 May 2025 10:56
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 36 Sample Multiplier: 1

Quant Time: May 21 12:14:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.652	152	135470	20.000	ng	-0.01
21) Naphthalene-d8	10.422	136	549948	20.000	ng	-0.01
39) Acenaphthene-d10	14.281	164	350452	20.000	ng	-0.02
64) Phenanthrene-d10	17.069	188	669288	20.000	ng	-0.03
76) Chrysene-d12	21.504	240	774145	20.000	ng	-0.02
86) Perylene-d12	24.774	264	911806	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	593223	74.897	ng	0.00
7) Phenol-d6	6.858	99	730350	72.249	ng	0.00
23) Nitrobenzene-d5	8.805	82	779316	71.600	ng	0.00
42) 2,4,6-Tribromophenol	15.798	330	523753	88.157	ng	-0.01
45) 2-Fluorobiphenyl	12.893	172	2114301	79.041	ng	-0.01
79) Terphenyl-d14	19.798	244	3589958	79.516	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.223	88	123293	33.150	ng	97
3) Pyridine	3.617	79	275450	33.400	ng	92
4) n-Nitrosodimethylamine	3.528	42	134730	37.005	ng	87
6) Aniline	6.993	93	446155	34.185	ng	99
8) 2-Chlorophenol	7.234	128	346587	38.546	ng	96
9) Benzaldehyde	6.811	77	223602	34.170	ng	96
10) Phenol	6.881	94	362241	34.719	ng	96
11) bis(2-Chloroethyl)ether	7.087	93	282191	32.916	ng	98
12) 1,3-Dichlorobenzene	7.546	146	388903	37.594	ng	98
13) 1,4-Dichlorobenzene	7.687	146	393029	37.775	ng	99
14) 1,2-Dichlorobenzene	7.999	146	374925	36.981	ng	99
15) Benzyl Alcohol	7.899	79	275177	35.822	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.169	45	330517	32.192	ng	99
17) 2-Methylphenol	8.111	107	266596	35.626	ng	99
18) Hexachloroethane	8.716	117	143486	35.988	ng	96
19) n-Nitroso-di-n-propyla...	8.458	70	220282	31.502	ng	94
20) 3+4-Methylphenols	8.440	107	366912	36.045	ng	98
22) Acetophenone	8.469	105	496987	36.178	ng	98
24) Nitrobenzene	8.846	77	334187	34.890	ng	93
25) Isophorone	9.363	82	631557	33.451	ng	97
26) 2-Nitrophenol	9.552	139	193720	41.274	ng	96
27) 2,4-Dimethylphenol	9.616	122	315631	38.142	ng	99
28) bis(2-Chloroethoxy)met...	9.840	93	383129	33.966	ng	99
29) 2,4-Dichlorophenol	10.099	162	325837	40.632	ng	96
30) 1,2,4-Trichlorobenzene	10.287	180	361969	40.056	ng	95
31) Naphthalene	10.475	128	1071970	37.615	ng	100
32) Benzoic acid	9.752	122	92297m	20.997	ng	
33) 4-Chloroaniline	10.593	127	443925	38.602	ng	97
34) Hexachlorobutadiene	10.752	225	245271	41.898	ng	97
35) Caprolactam	11.393	113	102330	35.270	ng	96
36) 4-Chloro-3-methylphenol	11.740	107	361130	36.928	ng	99
37) 2-Methylnaphthalene	12.081	142	688580	37.315	ng	100
38) 1-Methylnaphthalene	12.304	142	732371	37.092	ng	99
40) 1,2,4,5-Tetrachloroben...	12.457	216	421830	41.450	ng	99
41) Hexachlorocyclopentadiene	12.434	237	199324	32.301	ng	98
43) 2,4,6-Trichlorophenol	12.716	196	278066	42.185	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024735.D
Acq On : 21 May 2025 10:56
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 36 Sample Multiplier: 1

Quant Time: May 21 12:14:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.804	196	302556	41.236	ng		96
46) 1,1'-Biphenyl	13.104	154	996616	38.476	ng		98
47) 2-Chloronaphthalene	13.146	162	762202	38.593	ng		99
48) 2-Nitroaniline	13.363	65	209721	35.867	ng		94
49) Acenaphthylene	14.004	152	1247255	37.738	ng		99
50) Dimethylphthalate	13.746	163	978456	36.630	ng		99
51) 2,6-Dinitrotoluene	13.863	165	212716	37.707	ng		98
52) Acenaphthene	14.346	154	723732	38.090	ng		99
53) 3-Nitroaniline	14.204	138	217767	37.805	ng		96
54) 2,4-Dinitrophenol	14.440	184	15696	10.460	ng		97
55) Dibenzofuran	14.687	168	1145935	37.811	ng		98
56) 4-Nitrophenol	14.575	139	141573	31.121	ng		96
57) 2,4-Dinitrotoluene	14.663	165	303730	38.189	ng		97
58) Fluorene	15.345	166	934089	37.799	ng		100
59) 2,3,4,6-Tetrachlorophenol	14.928	232	274380	40.312	ng		93
60) Diethylphthalate	15.122	149	984129	36.452	ng		99
61) 4-Chlorophenyl-phenyle...	15.340	204	474594	38.510	ng		99
62) 4-Nitroaniline	15.381	138	220352	39.618	ng		96
63) Azobenzene	15.640	77	751086	32.520	ng		93
65) 4,6-Dinitro-2-methylph...	15.445	198	53443	12.362	ng		96
66) n-Nitrosodiphenylamine	15.563	169	787025	38.283	ng		98
67) 4-Bromophenyl-phenylether	16.251	248	332056	42.104	ng		94
68) Hexachlorobenzene	16.369	284	429807	42.889	ng		94
69) Atrazine	16.540	200	303928	40.341	ng		100
70) Pentachlorophenol	16.734	266	181388	32.244	ng		99
71) Phenanthrene	17.116	178	1423885	38.270	ng		100
72) Anthracene	17.210	178	1443108	38.551	ng		100
73) Carbazole	17.498	167	1325255	39.114	ng		99
74) Di-n-butylphthalate	18.081	149	1687862	38.735	ng		99
75) Fluoranthene	19.198	202	1701643	39.125	ng		98
77) Benzidine	19.404	184	880033	41.738	ng		99
78) Pyrene	19.575	202	1746108	37.644	ng		100
80) Butylbenzylphthalate	20.533	149	770766	37.363	ng		90
81) Benzo(a)anthracene	21.486	228	1841586	37.885	ng		100
82) 3,3'-Dichlorobenzidine	21.410	252	751644	41.632	ng		98
83) Chrysene	21.545	228	1725888	37.454	ng		99
84) Bis(2-ethylhexyl)phtha...	21.416	149	1181419	38.963	ng		100
85) Di-n-octyl phthalate	22.663	149	1962163	39.572	ng		99
87) Indeno(1,2,3-cd)pyrene	28.509	276	2602162	39.091	ng	#	88
88) Benzo(b)fluoranthene	23.745	252	1972108	37.787	ng		98
89) Benzo(k)fluoranthene	23.816	252	2043746	38.003	ng		99
90) Benzo(a)pyrene	24.627	252	1928078	38.466	ng		98
91) Dibenzo(a,h)anthracene	28.557	278	2131169	39.353	ng		98
92) Benzo(g,h,i)perylene	29.645	276	2081468	38.650	ng		97

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

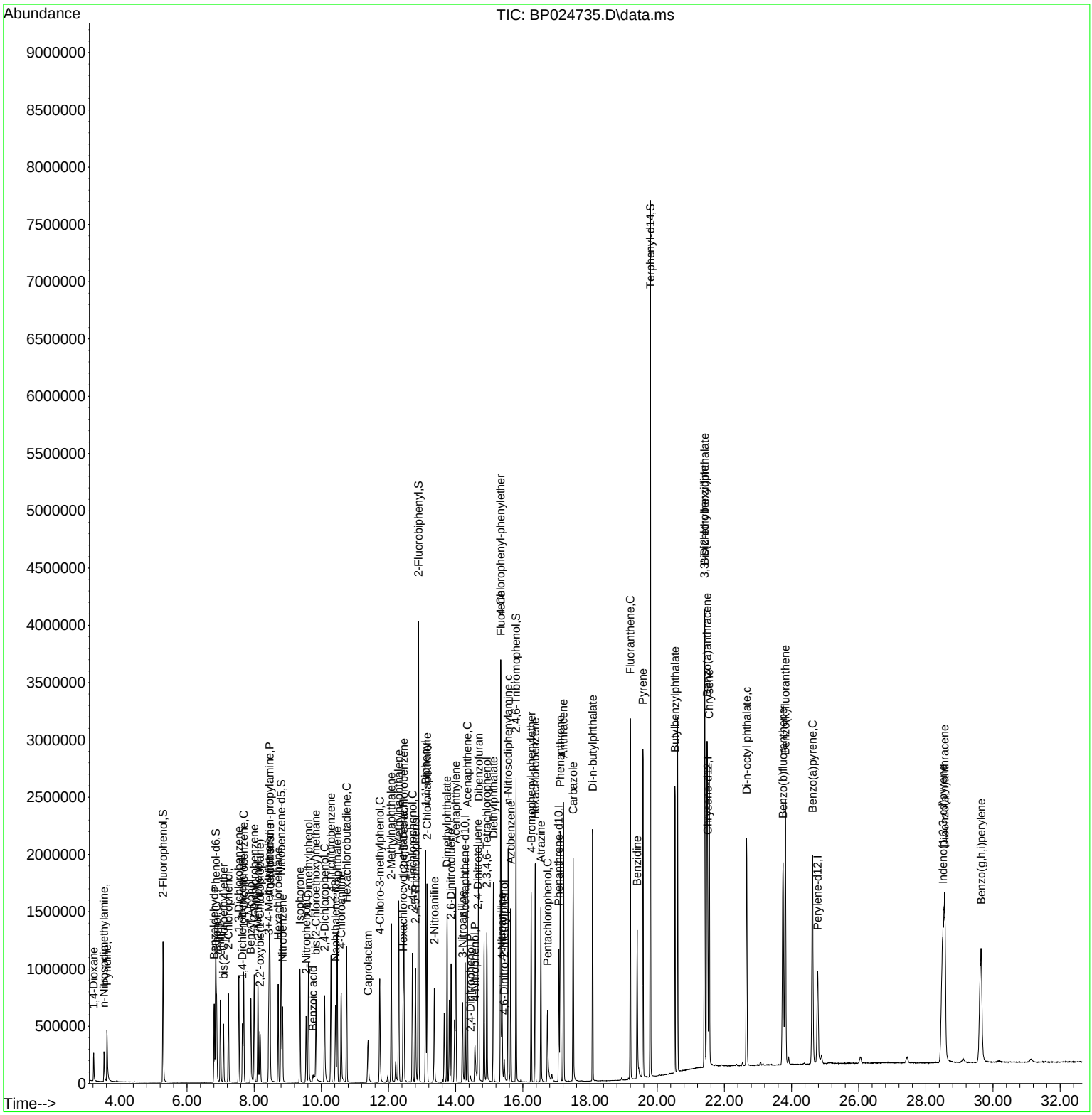
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024735.D
Acq On : 21 May 2025 10:56
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 36 Sample Multiplier: 1

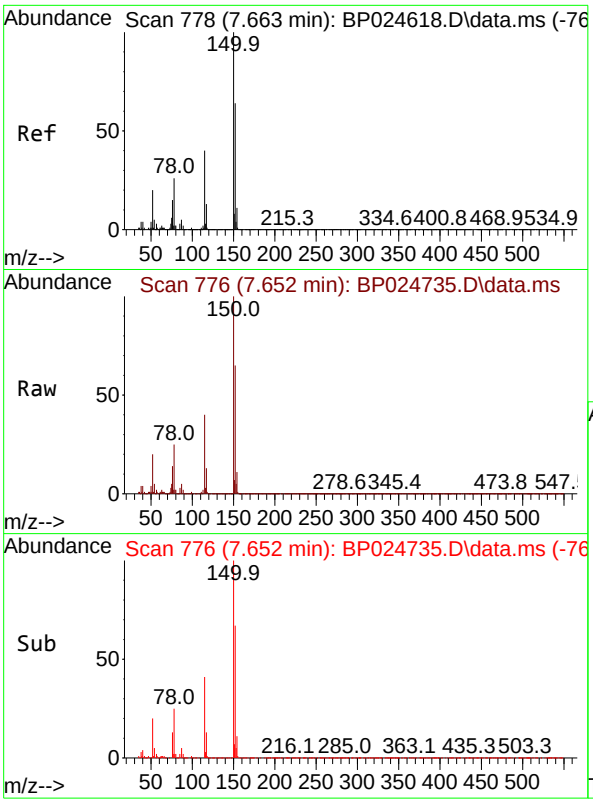
Quant Time: May 21 12:14:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

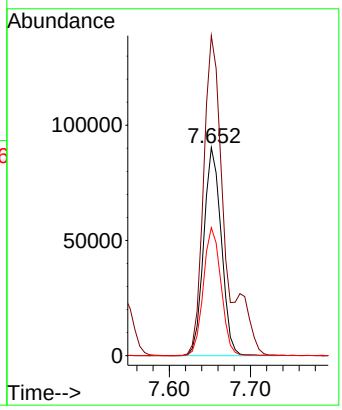




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.652 min Scan# 7
Delta R.T. -0.011 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:152 Resp: 13547

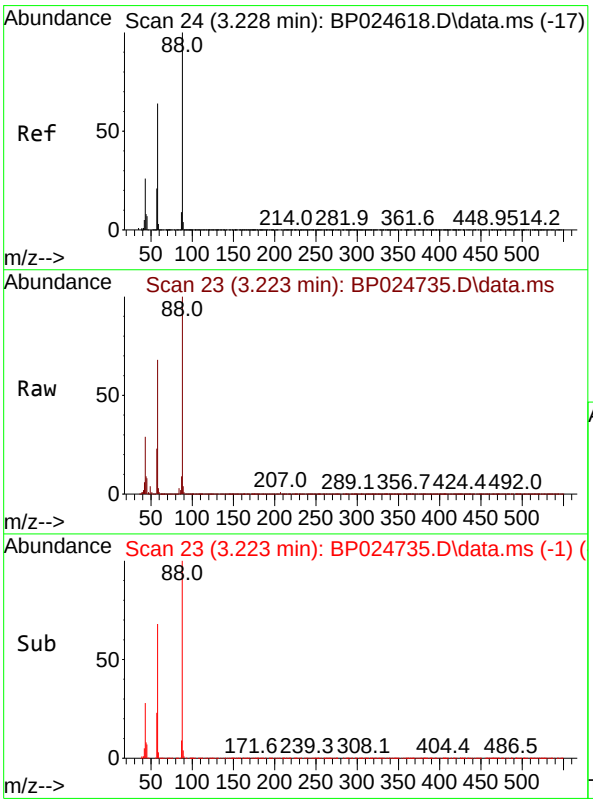
Ion	Ratio	Lower	Upper
152	100		
150	153.7	125.9	188.9
115	61.4	50.1	75.1



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

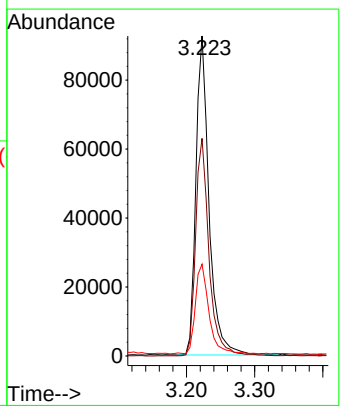
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

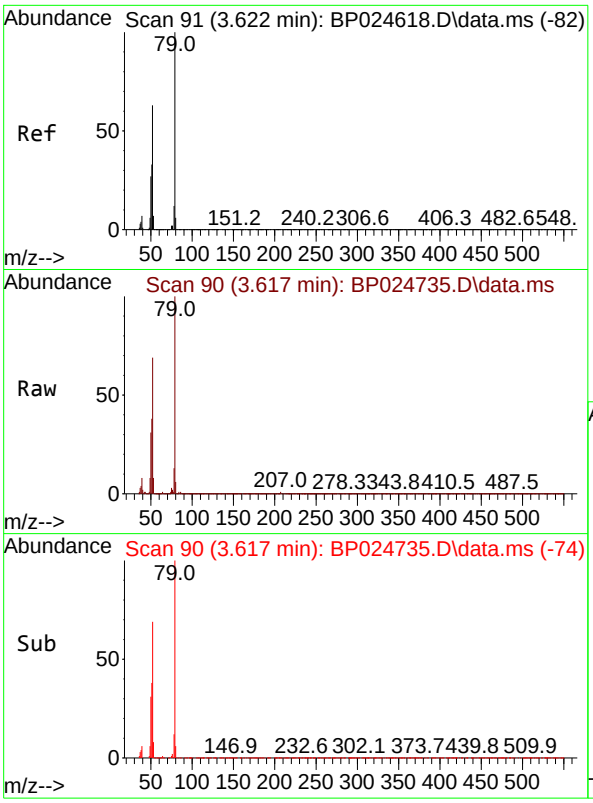


#2
1,4-Dioxane
Concen: 33.150 ng
RT: 3.223 min Scan# 23
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 88 Resp: 123293

Ion	Ratio	Lower	Upper
88	100		
58	69.7	54.0	81.0
43	29.2	21.4	32.0

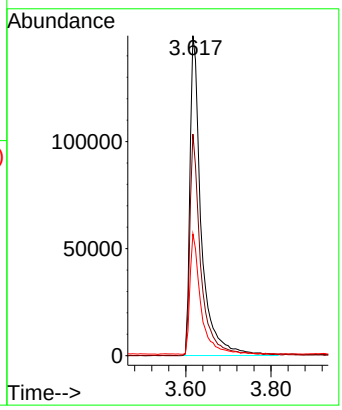




#3
Pyridine
Concen: 33.400 ng
RT: 3.617 min Scan# 9(
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 79 Resp: 27545(

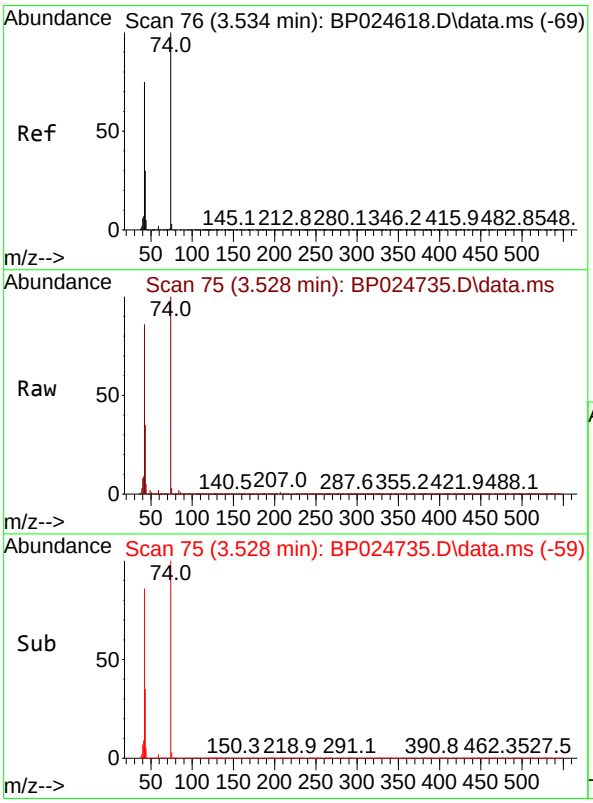
Ion	Ratio	Lower	Upper
79	100		
52	69.2	50.2	75.2
51	38.1	26.8	40.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

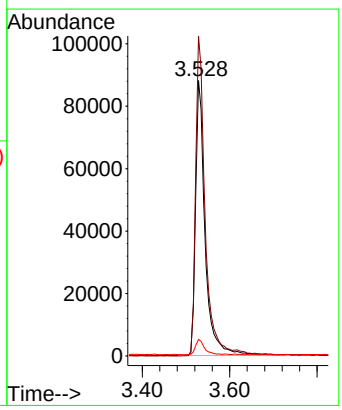
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

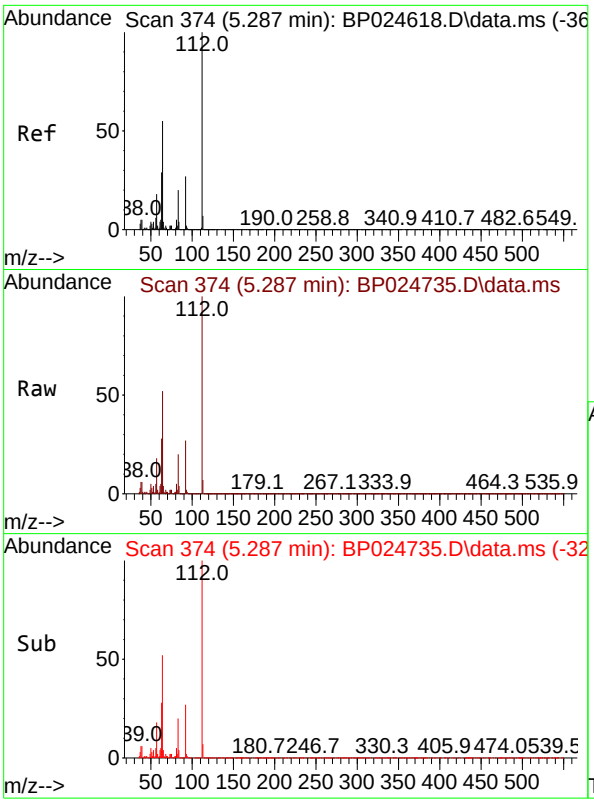


#4
n-Nitrosodimethylamine
Concen: 37.005 ng
RT: 3.528 min Scan# 75
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 42 Resp: 134730

Ion	Ratio	Lower	Upper
42	100		
74	116.2	106.2	159.2
44	6.0	5.4	8.2

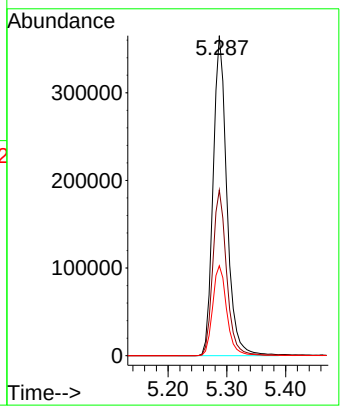




#5
2-Fluorophenol
Concen: 74.897 ng
RT: 5.287 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:112 Resp: 59322

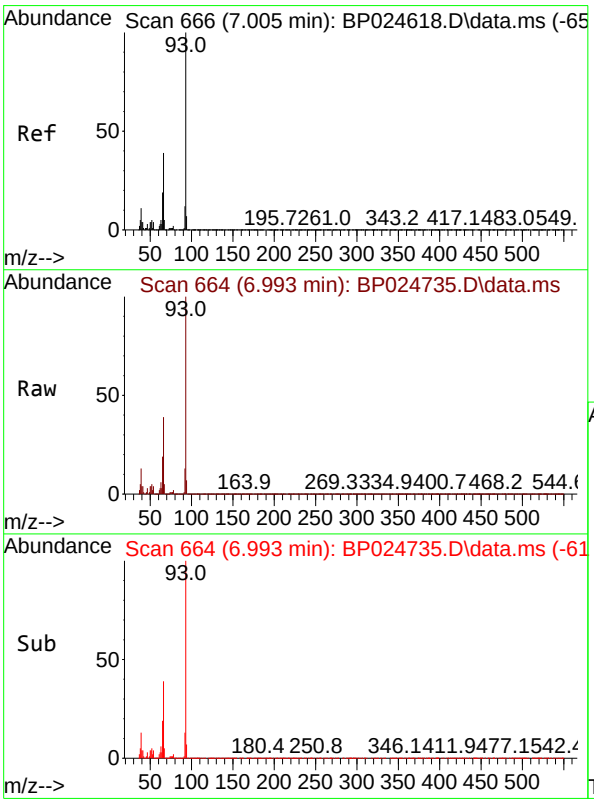
Ion	Ratio	Lower	Upper
112	100		
64	51.8	44.1	66.1
63	28.1	23.5	35.3



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

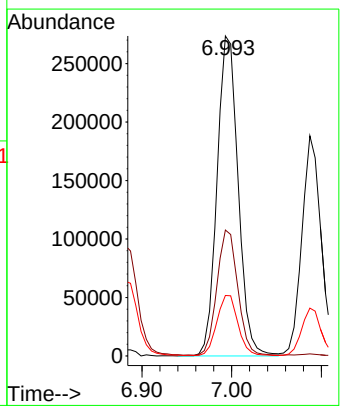
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

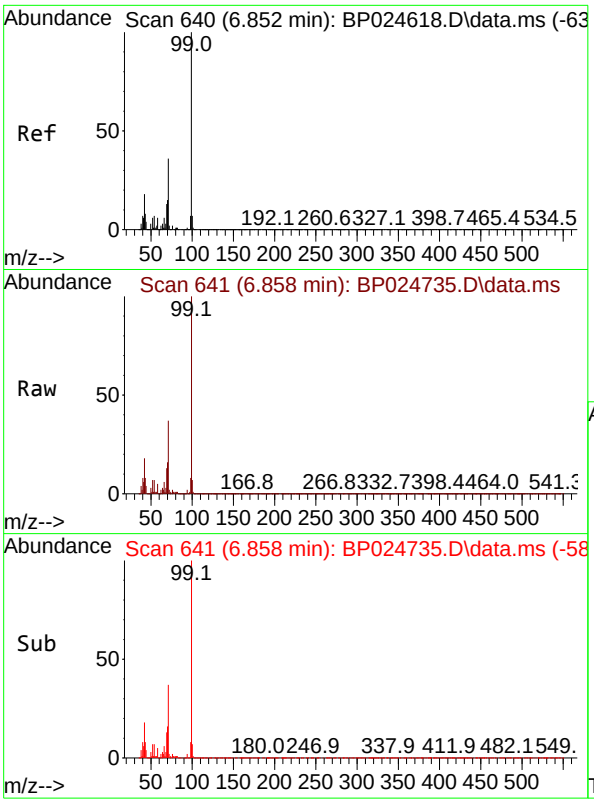


#6
Aniline
Concen: 34.185 ng
RT: 6.993 min Scan# 664
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 93 Resp: 446155

Ion	Ratio	Lower	Upper
93	100		
66	39.3	31.0	46.6
65	18.9	15.5	23.3





#7
Phenol-d6
Concen: 72.249 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

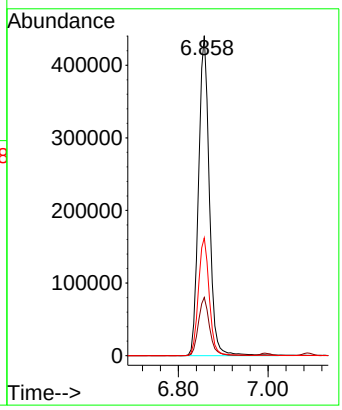
Tgt Ion: 99 Resp: 73035

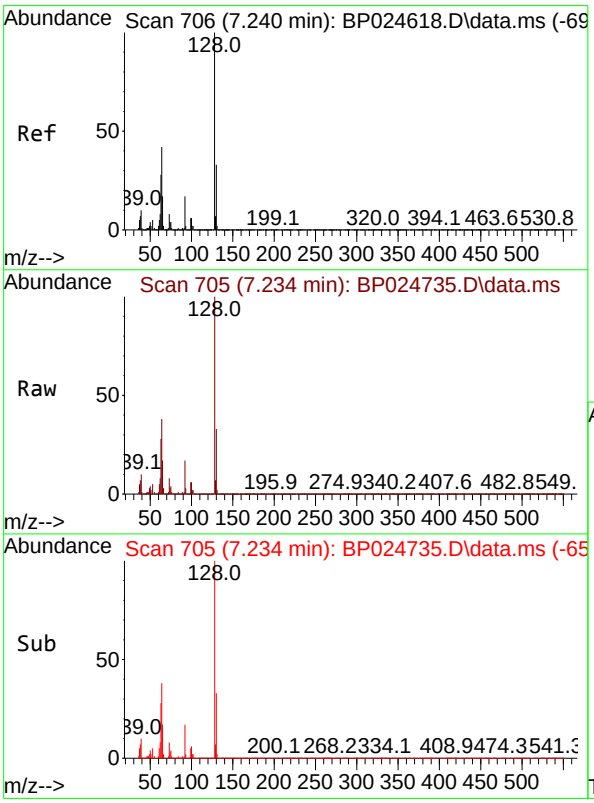
Ion	Ratio	Lower	Upper
99	100		
42	18.2	14.4	21.6
71	36.8	29.2	43.8

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

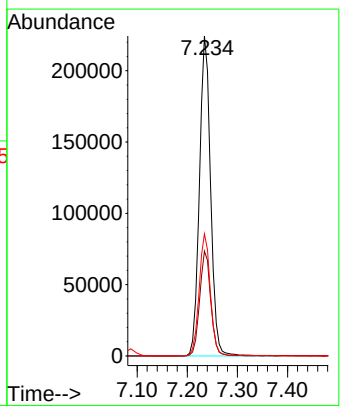


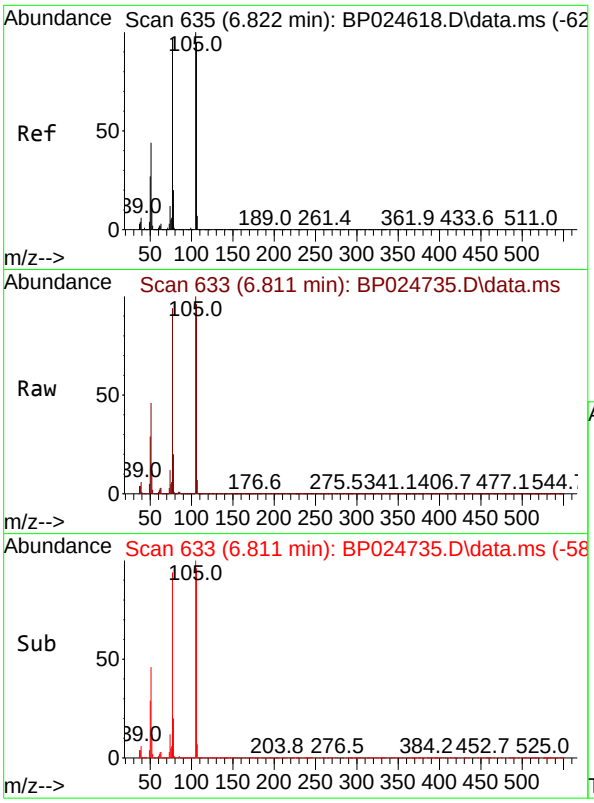


#8
2-Chlorophenol
Concen: 38.546 ng
RT: 7.234 min Scan# 705
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:128 Resp: 346587

Ion	Ratio	Lower	Upper
128	100		
130	32.8	13.0	53.0
64	38.1	22.3	62.3

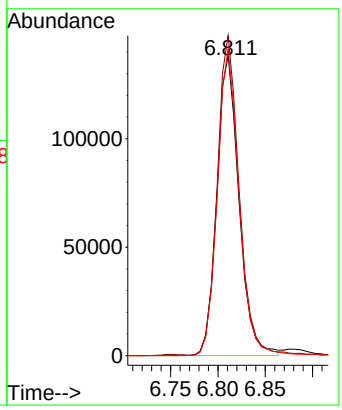




#9
Benzaldehyde
Concen: 34.170 ng
RT: 6.811 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 77 Resp: 22360

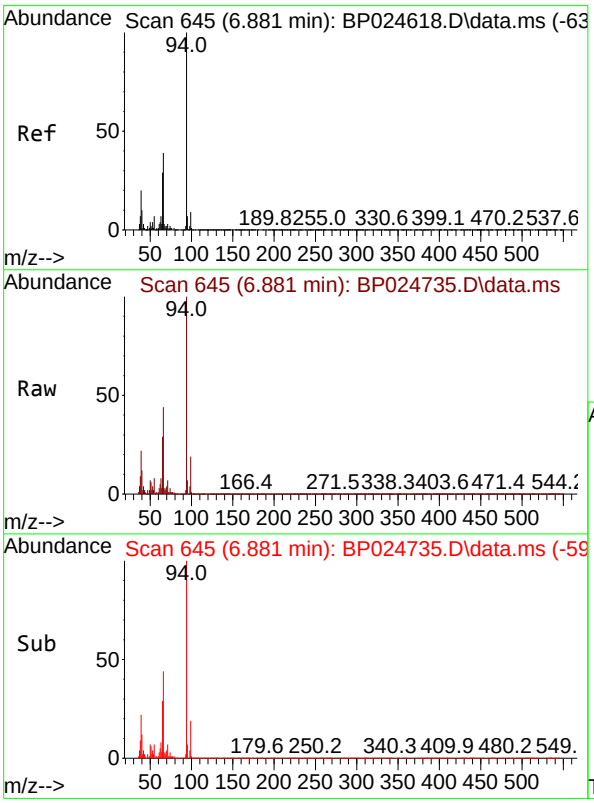
Ion	Ratio	Lower	Upper
77	100		
105	106.7	83.3	123.3
106	102.2	78.0	118.0



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

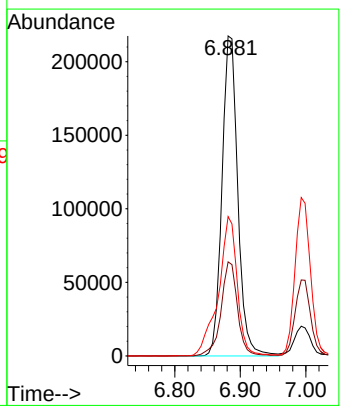
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

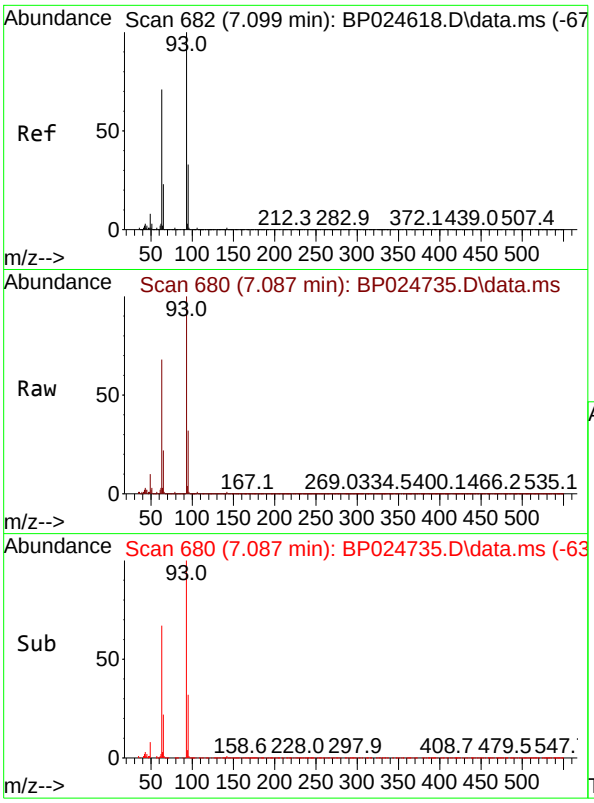


#10
Phenol
Concen: 34.719 ng
RT: 6.881 min Scan# 645
Delta R.T. 0.000 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 94 Resp: 362241

Ion	Ratio	Lower	Upper
94	100		
65	29.4	8.7	48.7
66	43.5	19.4	59.4

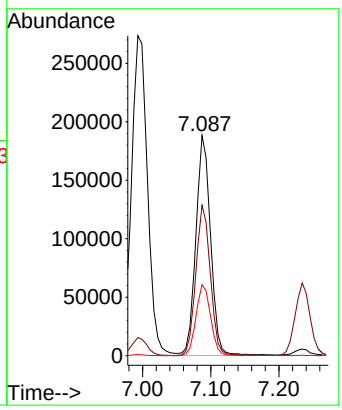




#11
bis(2-Chloroethyl)ether
Concen: 32.916 ng
RT: 7.087 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 93 Resp: 28219

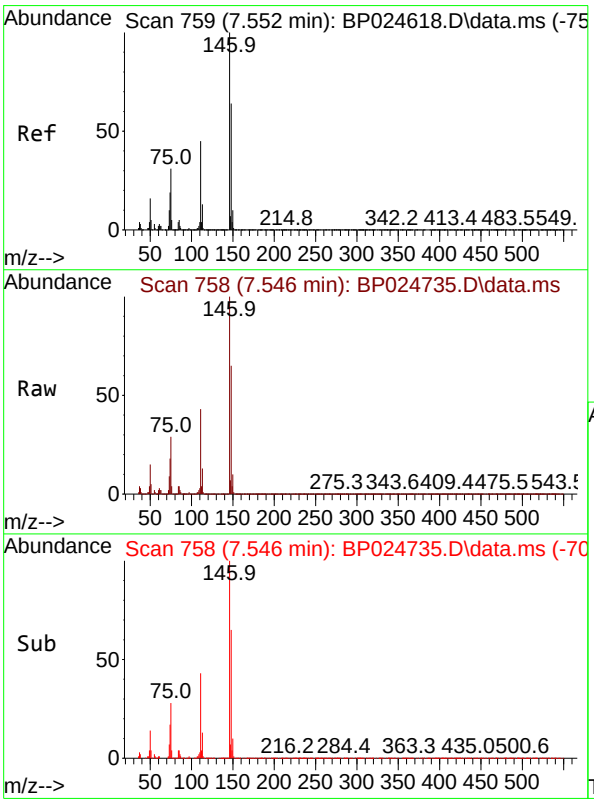
Ion	Ratio	Lower	Upper
93	100		
63	68.3	50.6	90.6
95	32.3	12.9	52.9



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

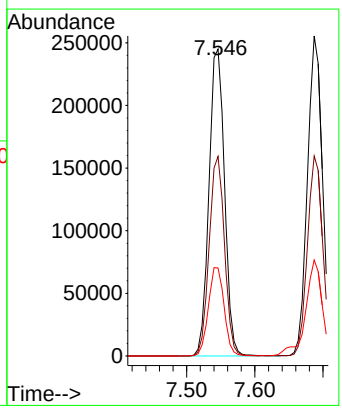
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

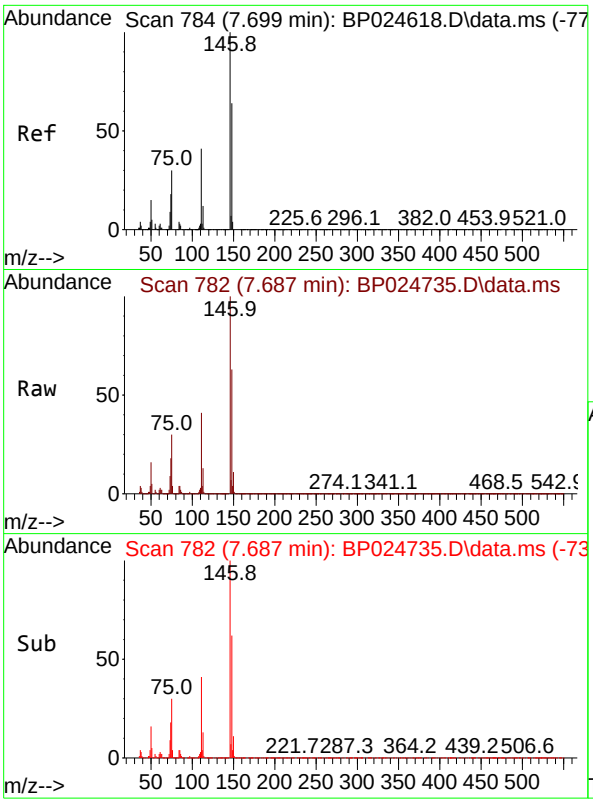


#12
1,3-Dichlorobenzene
Concen: 37.594 ng
RT: 7.546 min Scan# 758
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:146 Resp: 388903

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.4	77.2
75	28.7	25.2	37.8

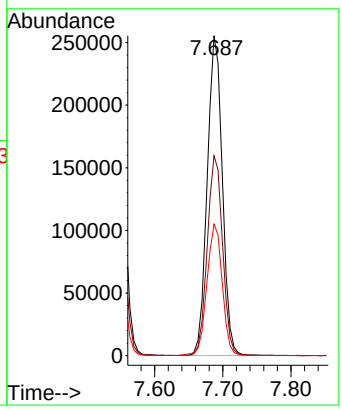




#13
1,4-Dichlorobenzene
Concen: 37.775 ng
RT: 7.687 min Scan# 7
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:146 Resp: 39302

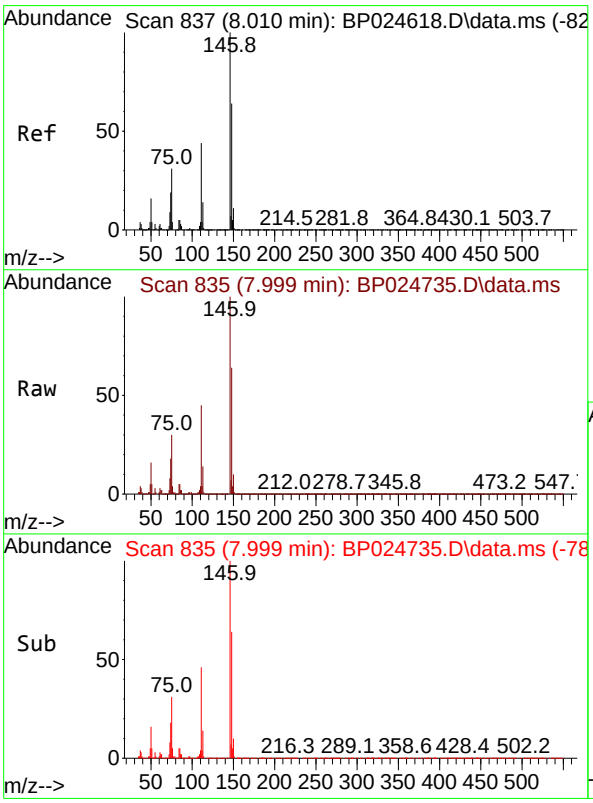
Ion	Ratio	Lower	Upper
146	100		
148	62.5	51.0	76.6
111	41.1	33.0	49.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

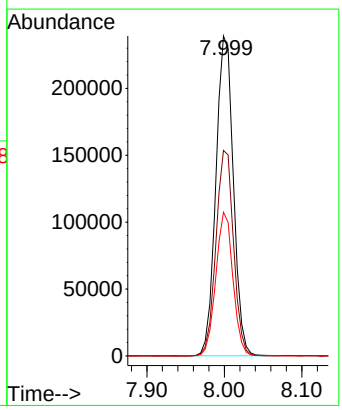
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

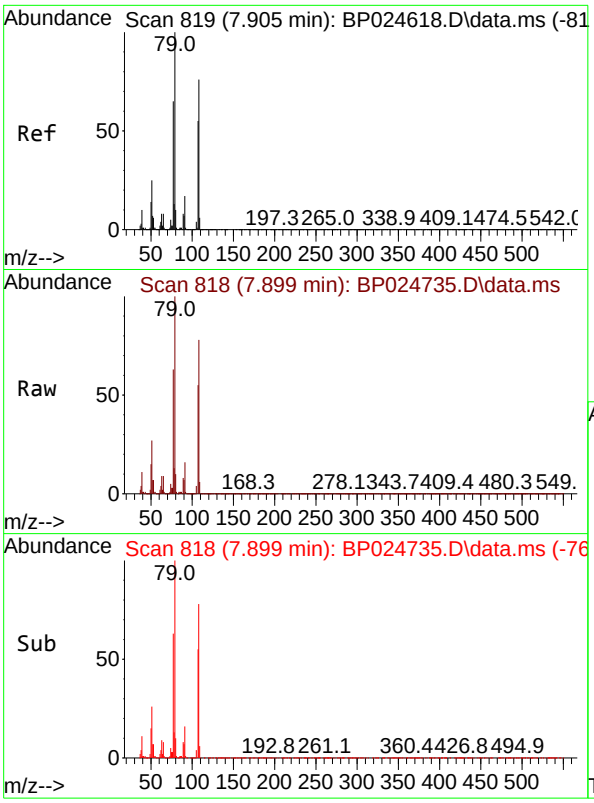


#14
1,2-Dichlorobenzene
Concen: 36.981 ng
RT: 7.999 min Scan# 835
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:146 Resp: 374925

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.4
111	44.9	35.2	52.8





#15
Benzyl Alcohol
Concen: 35.822 ng
RT: 7.899 min Scan# 8
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

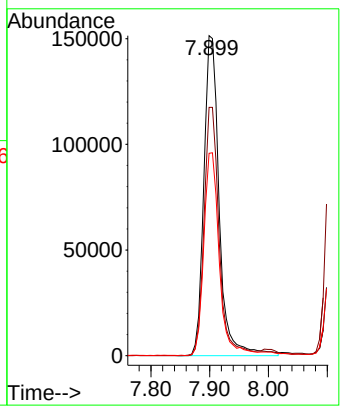
Tgt Ion: 79 Resp: 27517

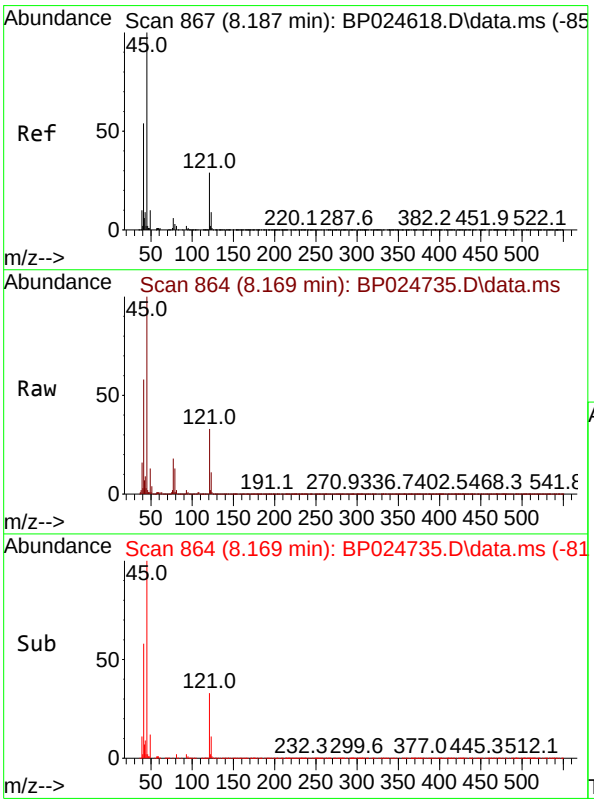
Ion	Ratio	Lower	Upper
79	100		
108	77.6	60.8	91.2
77	63.3	51.9	77.9

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

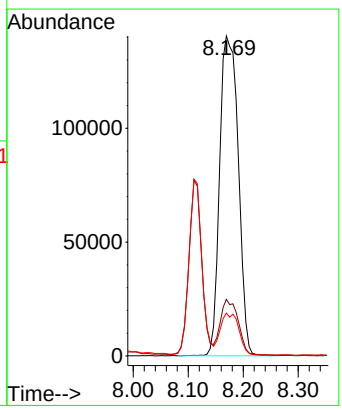


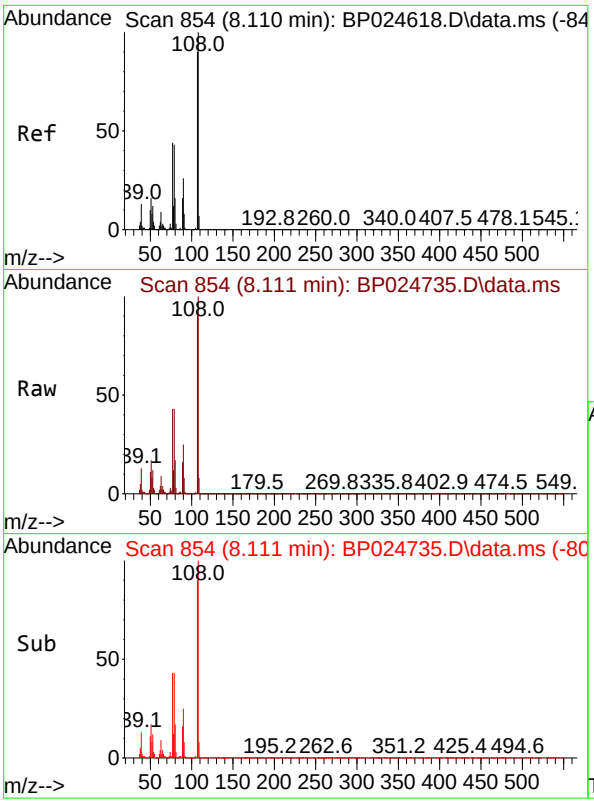


#16
2,2'-oxybis(1-Chloropropane)
Concen: 32.192 ng
RT: 8.169 min Scan# 864
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 45 Resp: 330517

Ion	Ratio	Lower	Upper
45	100		
77	17.7	0.0	37.7
79	13.4	0.0	34.0

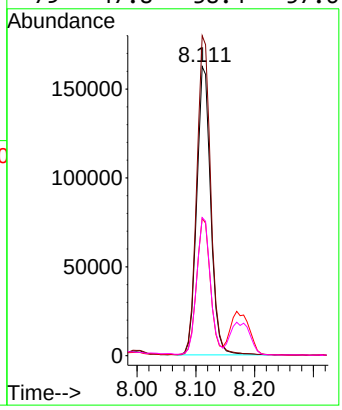




#17
2-Methylphenol
Concen: 35.626 ng
RT: 8.111 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

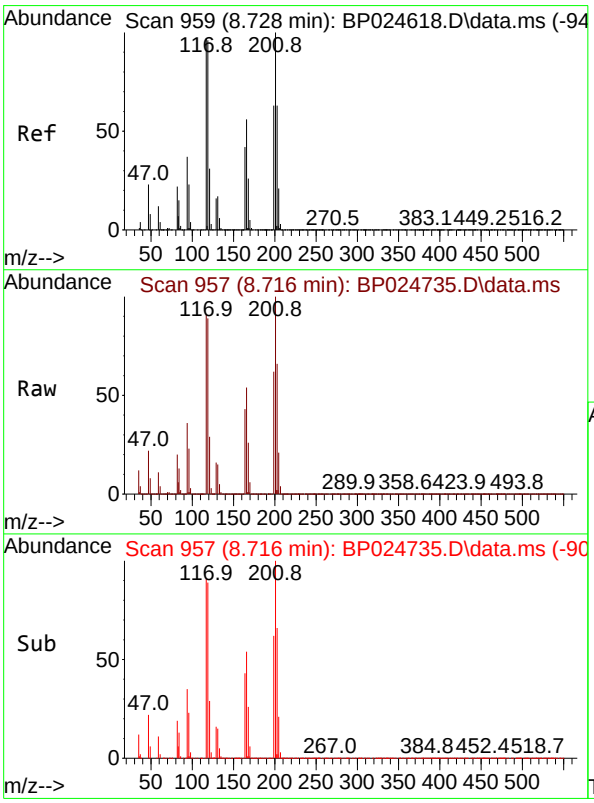
Tgt Ion:107 Resp: 26659

Ion	Ratio	Lower	Upper
107	100		
108	110.7	88.9	133.3
77	47.5	39.0	58.6
79	47.8	38.4	57.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

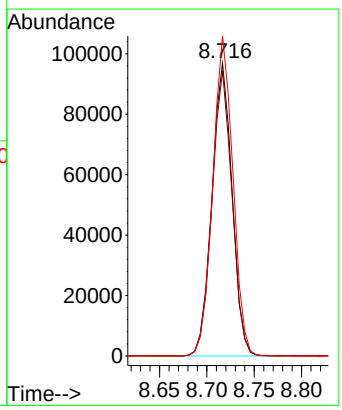
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

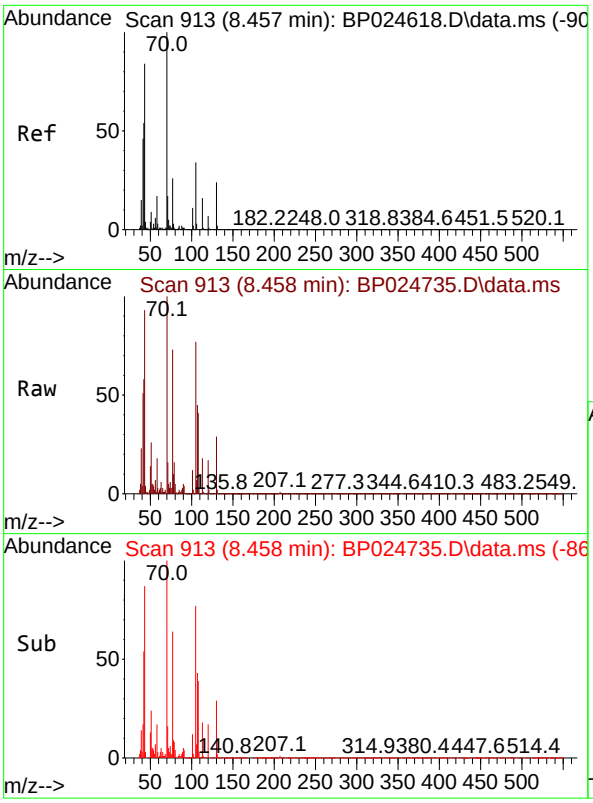


#18
Hexachloroethane
Concen: 35.988 ng
RT: 8.716 min Scan# 957
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:117 Resp: 143486

Ion	Ratio	Lower	Upper
117	100		
119	97.4	79.4	119.0
201	109.3	82.7	124.1

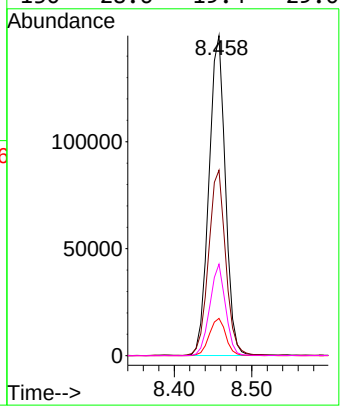




#19
n-Nitroso-di-n-propylamine
Concen: 31.502 ng
RT: 8.458 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 70 Resp: 22028

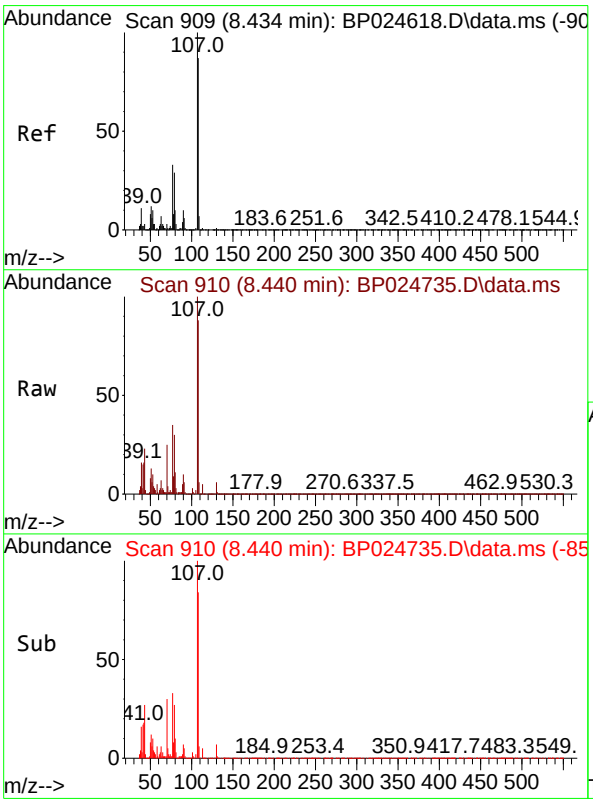
Ion	Ratio	Lower	Upper
70	100		
42	58.0	43.0	64.6
101	11.7	8.7	13.1
130	28.6	19.4	29.0



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

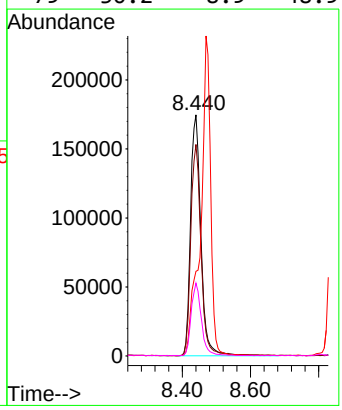
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

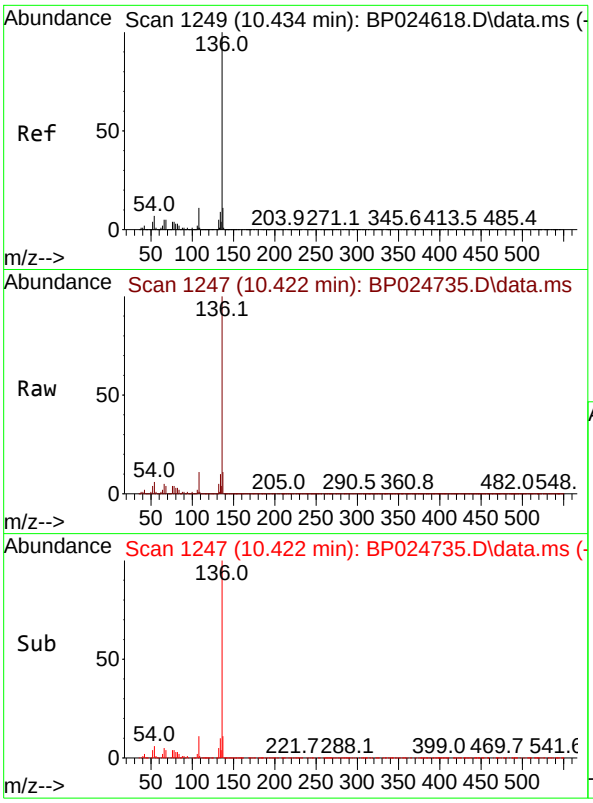


#20
3+4-Methylphenols
Concen: 36.045 ng
RT: 8.440 min Scan# 910
Delta R.T. 0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:107 Resp: 366912

Ion	Ratio	Lower	Upper
107	100		
108	87.7	66.7	106.7
77	35.1	13.1	53.1
79	30.2	8.9	48.9

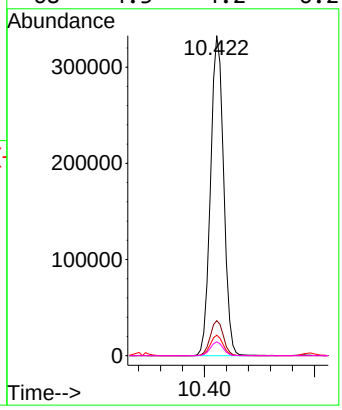




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:136 Resp: 54994

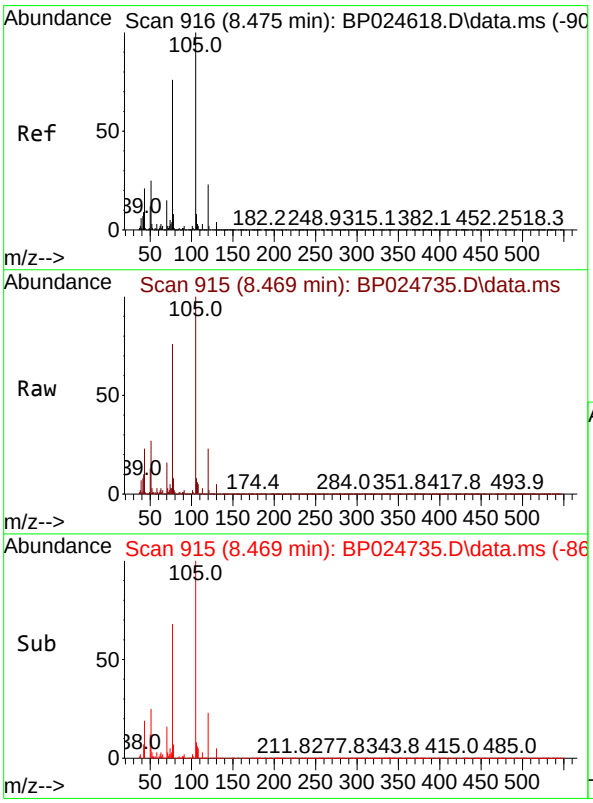
Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	6.4	5.5	8.3
68	4.3	4.2	6.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

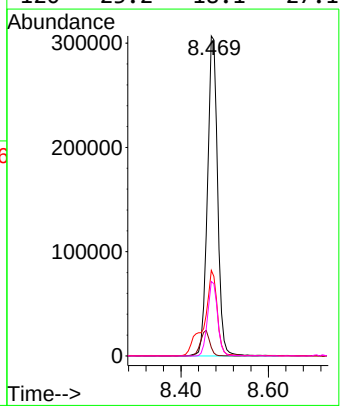
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

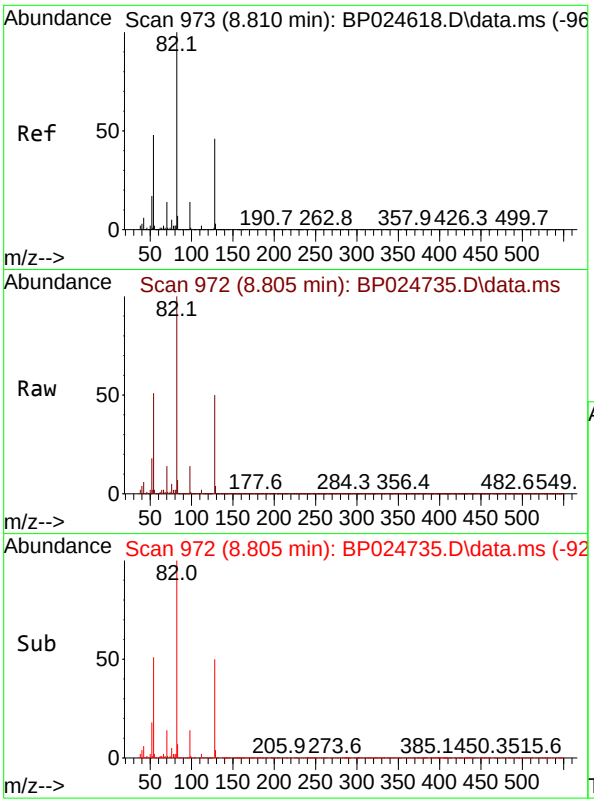


#22
Acetophenone
Concen: 36.178 ng
RT: 8.469 min Scan# 915
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:105 Resp: 496987

Ion	Ratio	Lower	Upper
105	100		
71	2.6	2.0	3.0
51	26.7	20.4	30.6
120	23.2	18.1	27.1

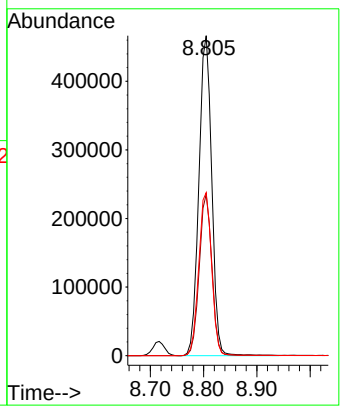




#23
Nitrobenzene-d5
Concen: 71.600 ng
RT: 8.805 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 82 Resp: 77931

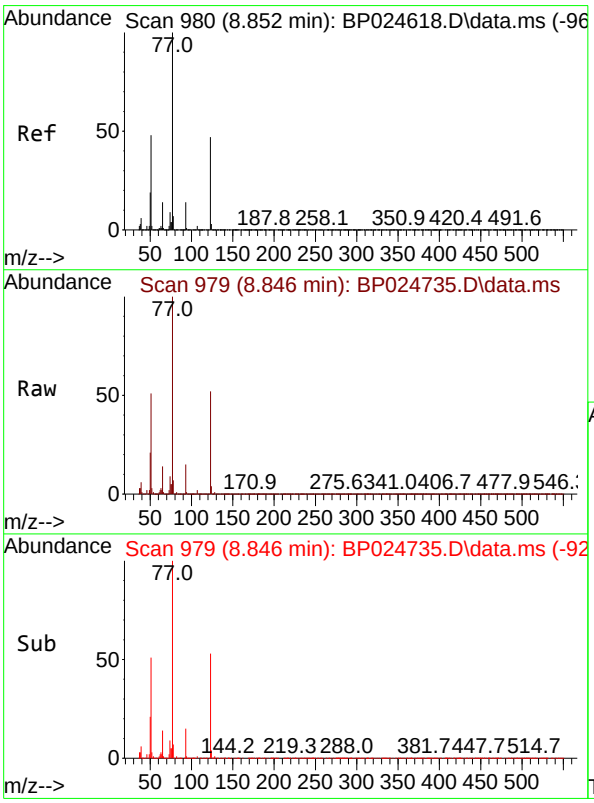
Ion	Ratio	Lower	Upper
82	100		
128	50.4	37.0	55.4
54	50.9	38.7	58.1



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

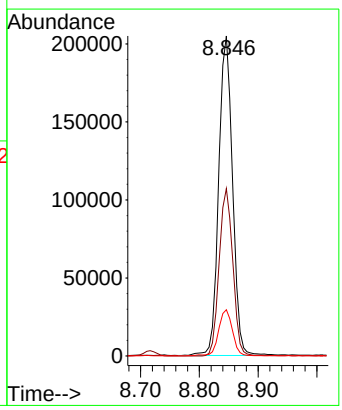
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

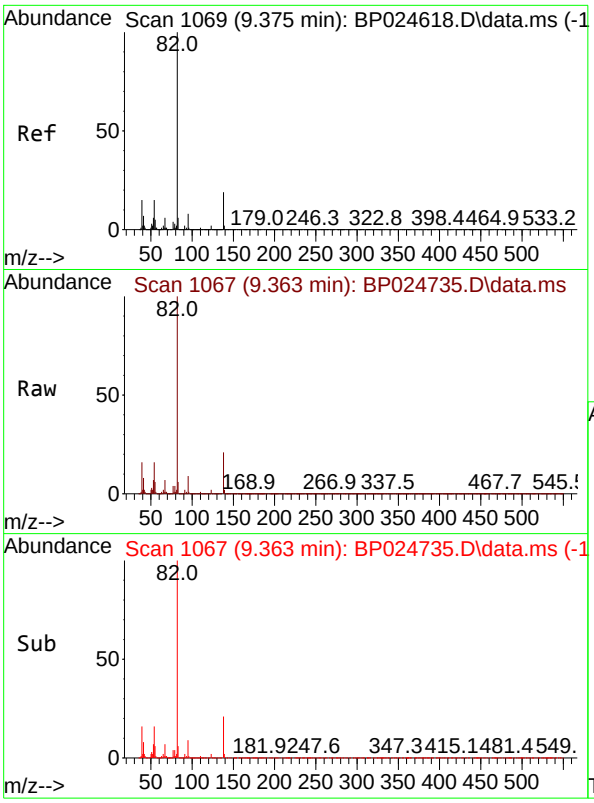


#24
Nitrobenzene
Concen: 34.890 ng
RT: 8.846 min Scan# 979
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 77 Resp: 334187

Ion	Ratio	Lower	Upper
77	100		
123	52.3	37.4	56.0
65	14.4	11.3	16.9

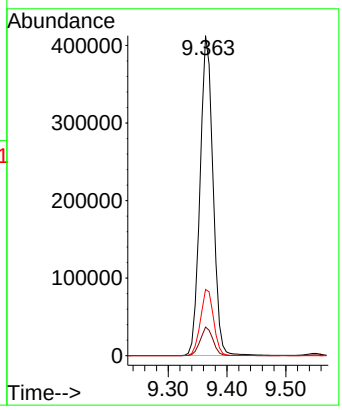




#25
Isophorone
Concen: 33.451 ng
RT: 9.363 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 82 Resp: 6315

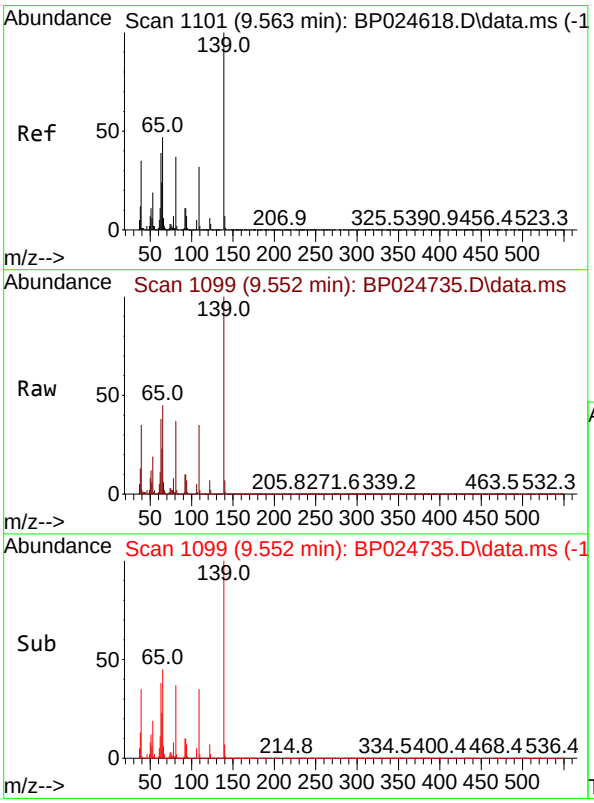
Ion	Ratio	Lower	Upper
82	100		
95	8.9	6.3	9.5
138	20.7	15.3	22.9



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

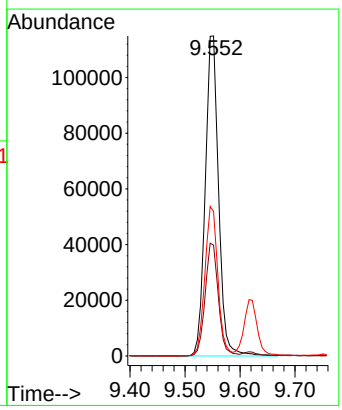
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

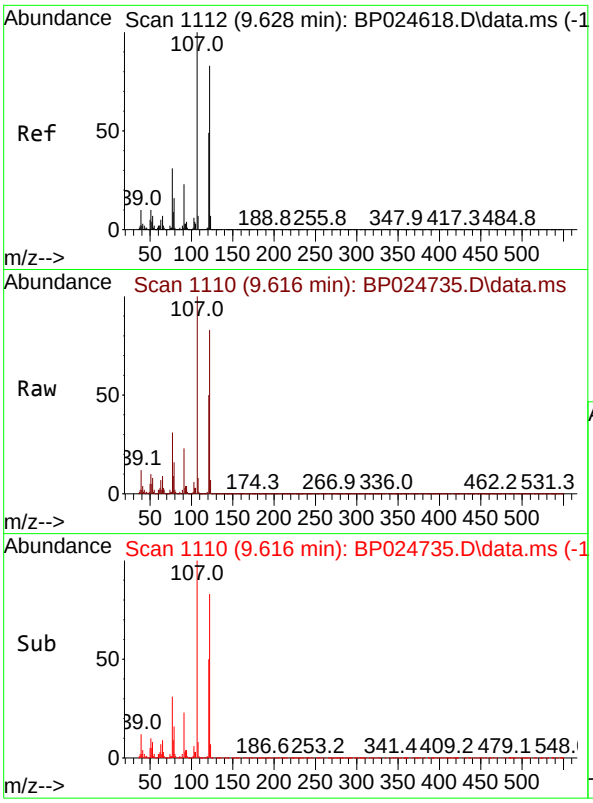


#26
2-Nitrophenol
Concen: 41.274 ng
RT: 9.552 min Scan# 1099
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:139 Resp: 193720

Ion	Ratio	Lower	Upper
139	100		
109	34.6	25.9	38.9
65	45.2	37.9	56.9





#27
2,4-Dimethylphenol
Concen: 38.142 ng
RT: 9.616 min Scan# 11
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

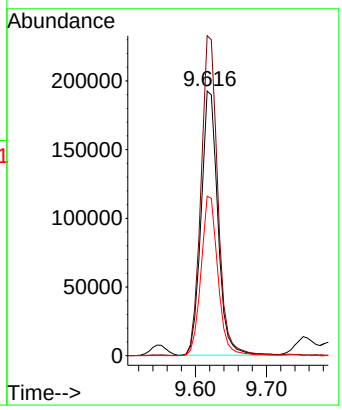
Tgt Ion:122 Resp: 31563

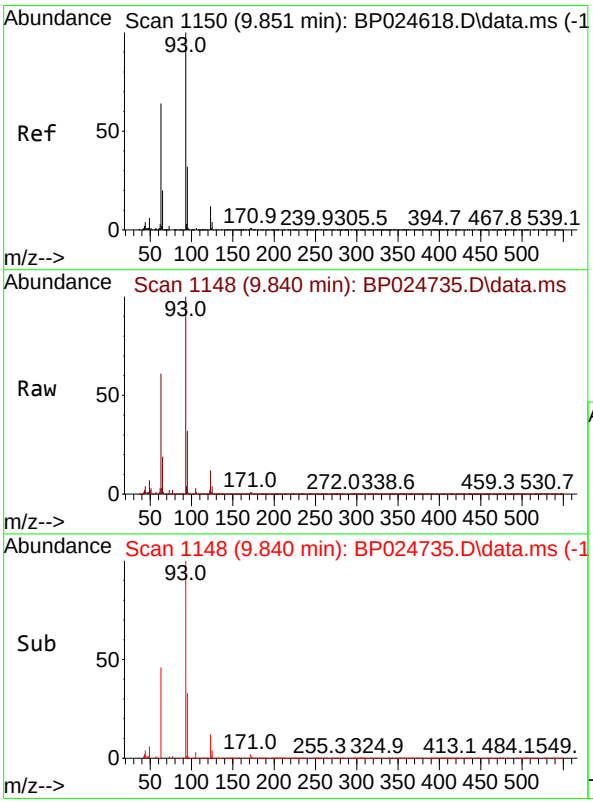
Ion	Ratio	Lower	Upper
122	100		
107	120.9	96.2	144.2
121	60.3	47.6	71.4

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

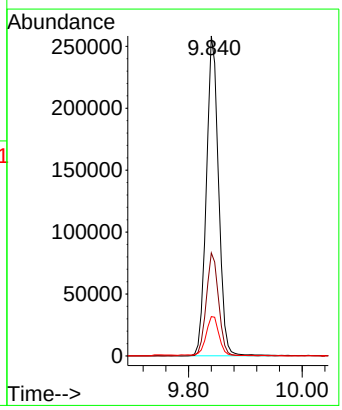


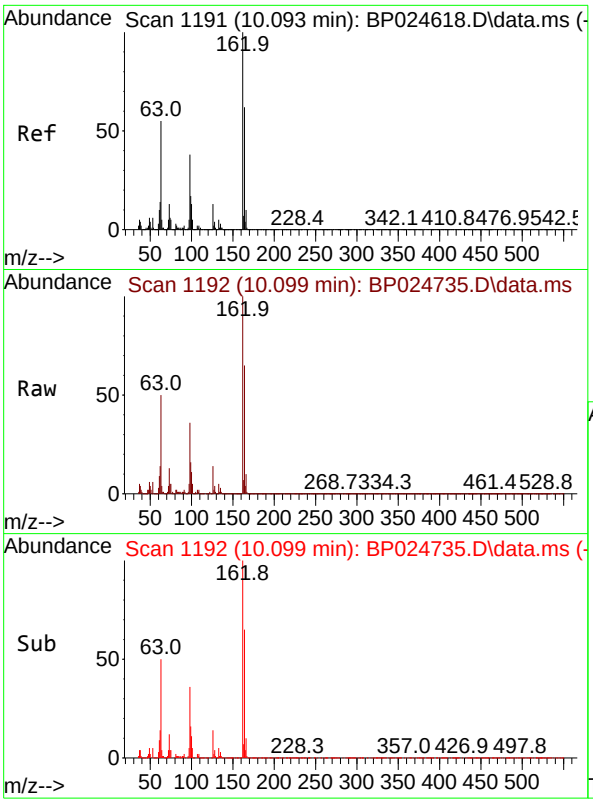


#28
bis(2-Chloroethoxy)methane
Concen: 33.966 ng
RT: 9.840 min Scan# 1148
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 93 Resp: 383129

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.5	38.3
123	12.3	9.7	14.5





#29
2,4-Dichlorophenol
Concen: 40.632 ng
RT: 10.099 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

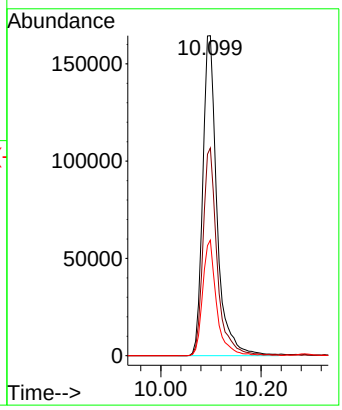
Tgt Ion:162 Resp: 32583

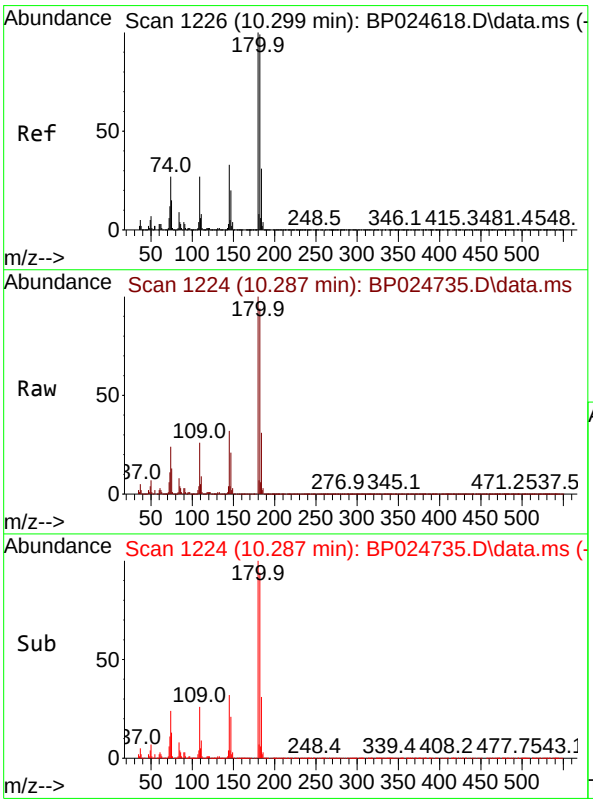
Ion	Ratio	Lower	Upper
162	100		
164	64.9	42.3	82.3
98	36.1	18.4	58.4

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

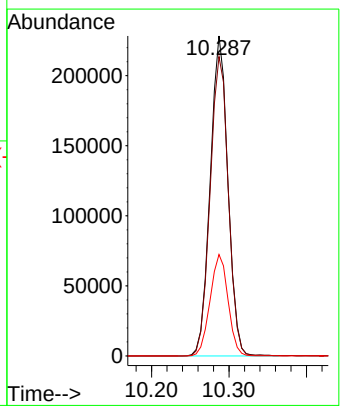


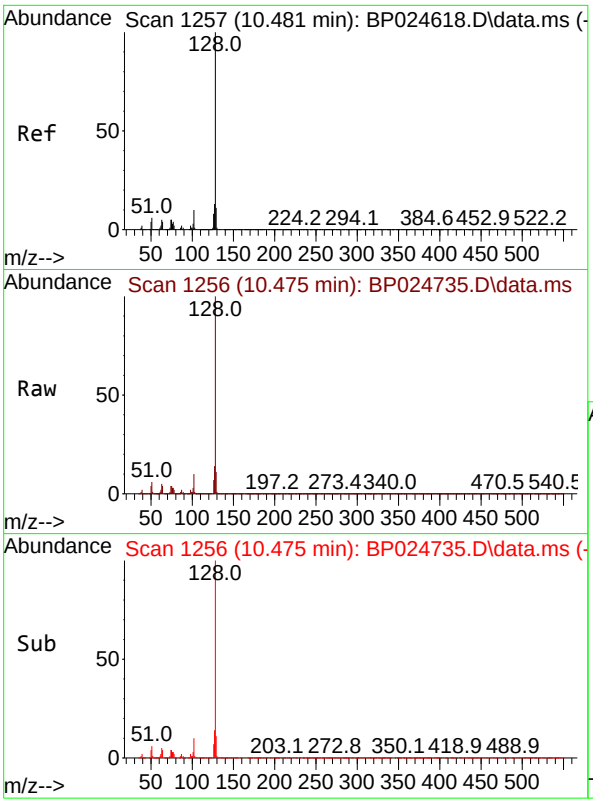


#30
1,2,4-Trichlorobenzene
Concen: 40.056 ng
RT: 10.287 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:180 Resp: 361969

Ion	Ratio	Lower	Upper
180	100		
182	93.6	79.0	118.4
145	31.7	26.6	39.8

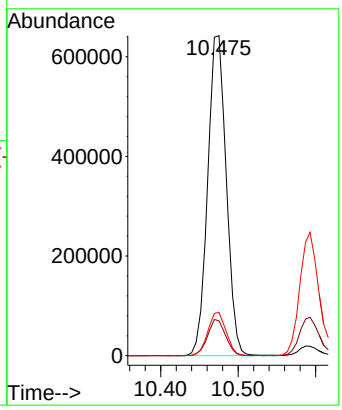




#31
Naphthalene
Concen: 37.615 ng
RT: 10.475 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:128 Resp: 107197

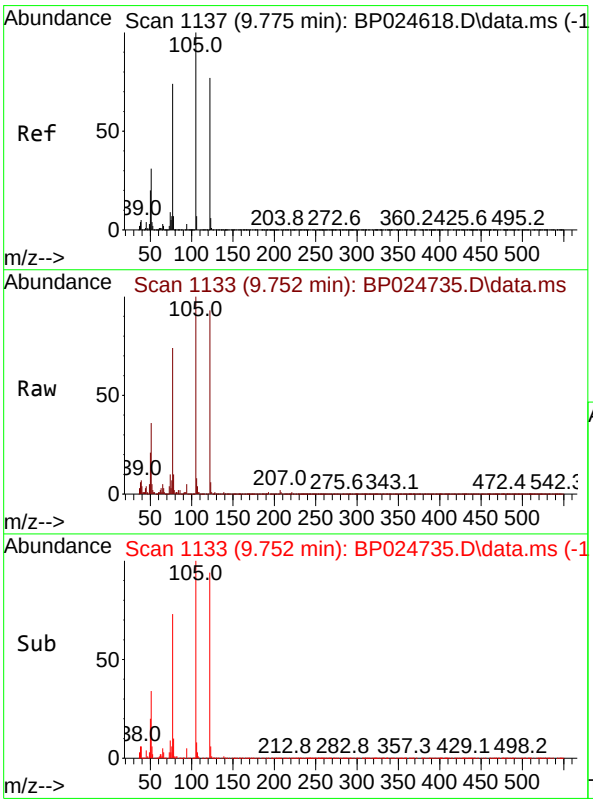
Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.6	10.7	16.1



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

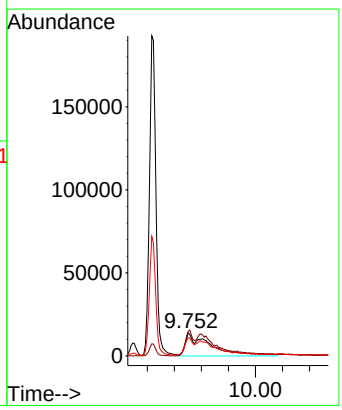
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

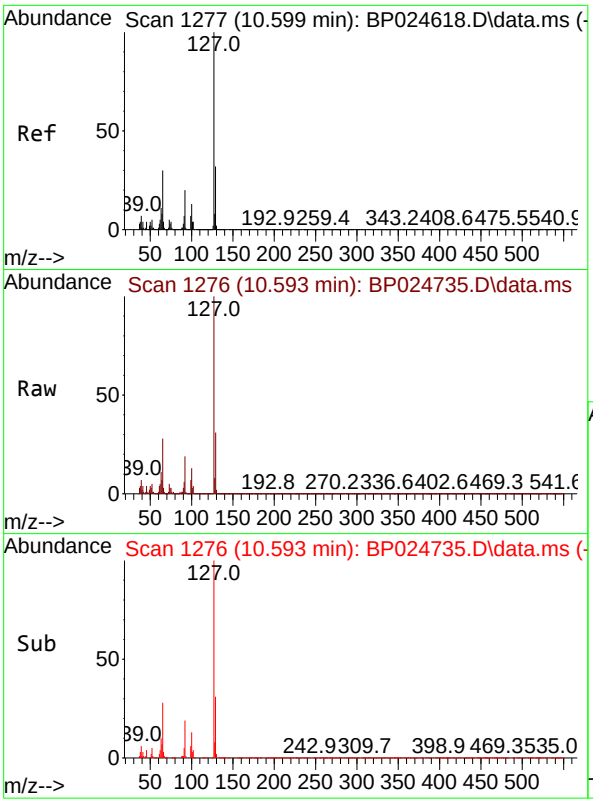


#32
Benzoic acid
Concen: 20.997 ng m
RT: 9.752 min Scan# 1133
Delta R.T. -0.023 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:122 Resp: 92297

Ion	Ratio	Lower	Upper
122	100		
105	107.2	106.9	146.9
77	78.8	75.1	115.1

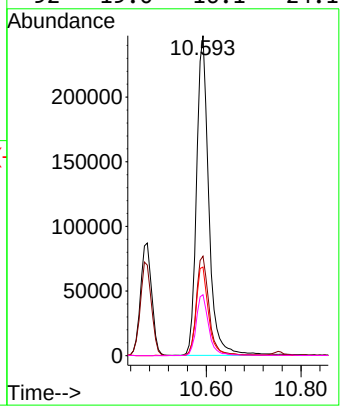




#33
4-Chloroaniline
Concen: 38.602 ng
RT: 10.593 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:127 Resp: 44392

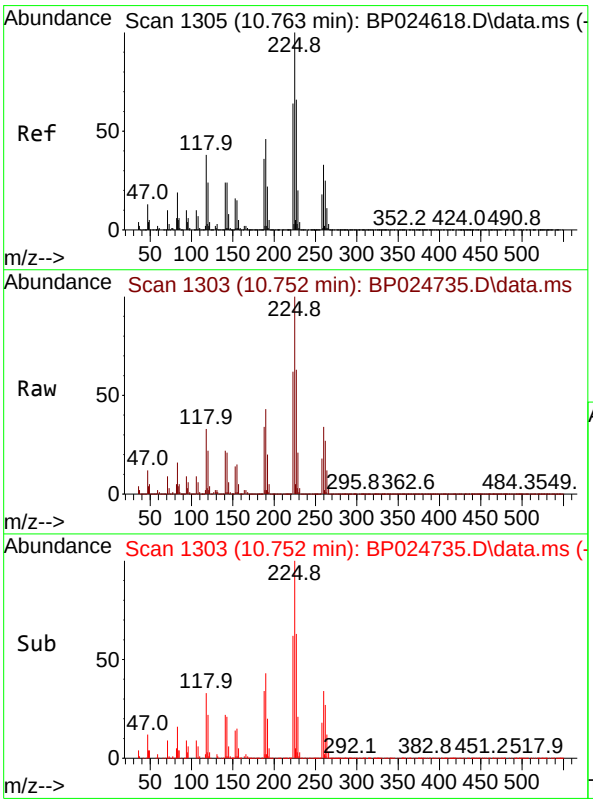
Ion	Ratio	Lower	Upper
127	100		
129	31.1	25.8	38.6
65	27.7	23.9	35.9
92	19.0	16.1	24.1



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

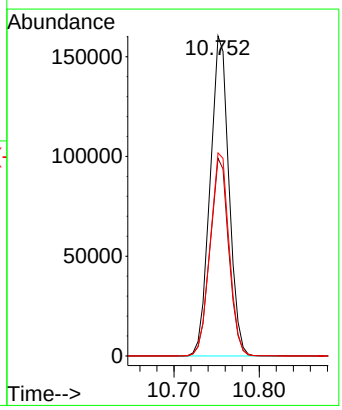
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

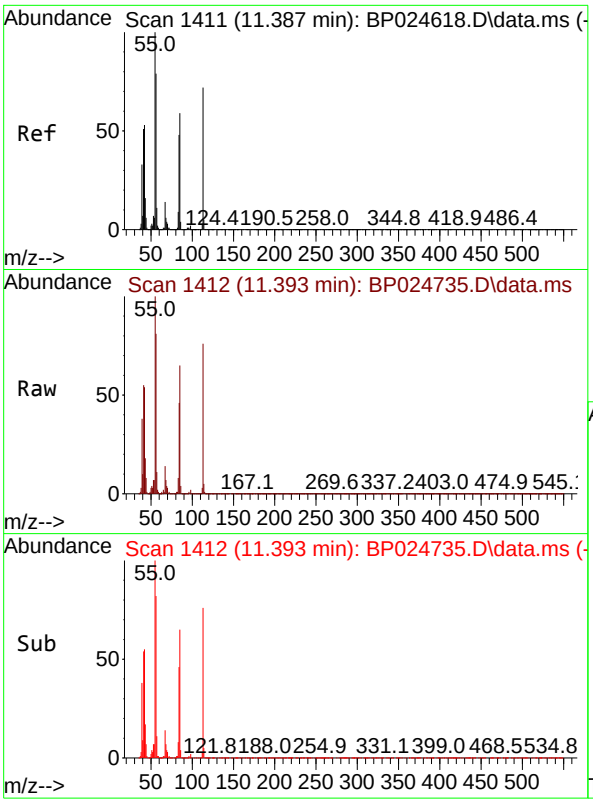


#34
Hexachlorobutadiene
Concen: 41.898 ng
RT: 10.752 min Scan# 1303
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:225 Resp: 245271

Ion	Ratio	Lower	Upper
225	100		
223	61.8	51.0	76.6
227	63.4	53.1	79.7





#35
Caprolactam
Concen: 35.270 ng
RT: 11.393 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

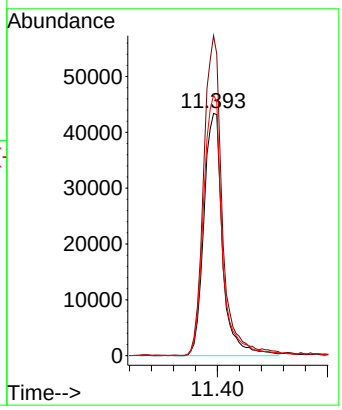
Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

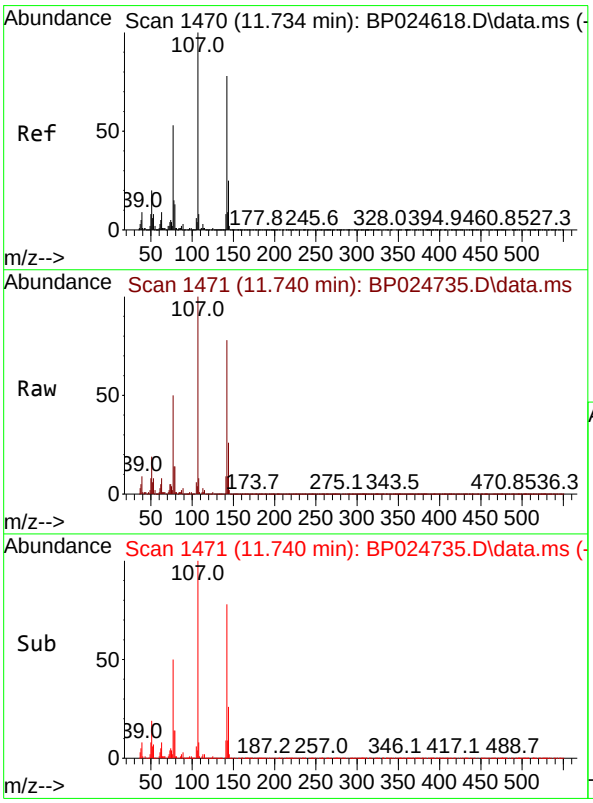
Tgt Ion:113 Resp: 10233

Ion	Ratio	Lower	Upper
113	100		
55	132.1	119.0	159.0
56	107.6	90.3	130.3

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

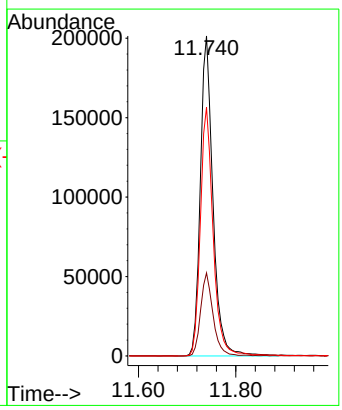


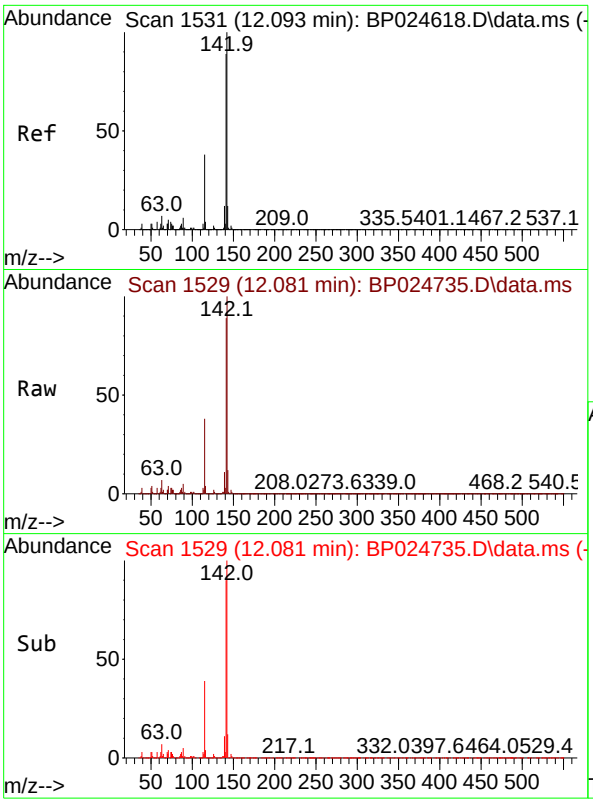


#36
4-Chloro-3-methylphenol
Concen: 36.928 ng
RT: 11.740 min Scan# 1471
Delta R.T. 0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:107 Resp: 361130

Ion	Ratio	Lower	Upper
107	100		
144	26.0	20.1	30.1
142	77.7	62.1	93.1

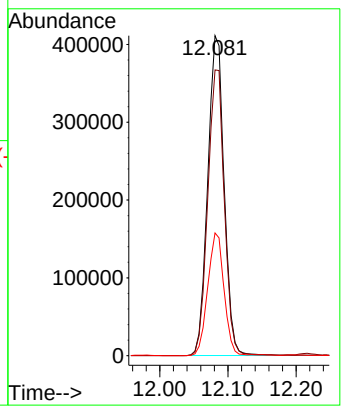




#37
2-Methylnaphthalene
Concen: 37.315 ng
RT: 12.081 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:142 Resp: 68858

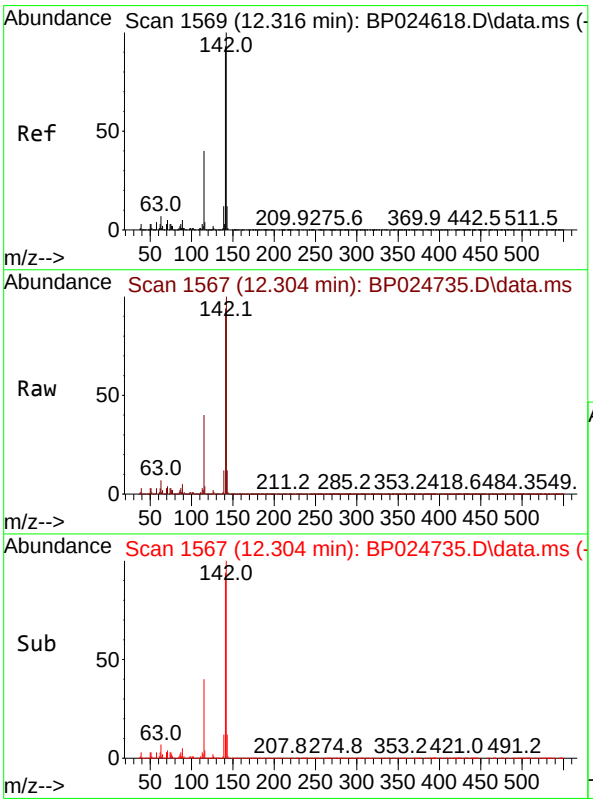
Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.2	106.8
115	38.3	30.6	46.0



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

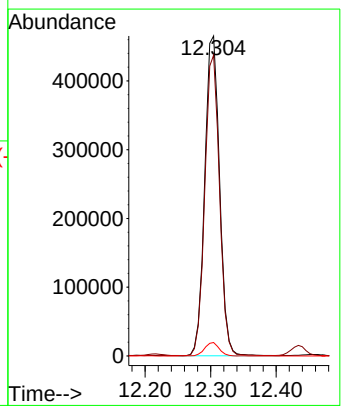
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

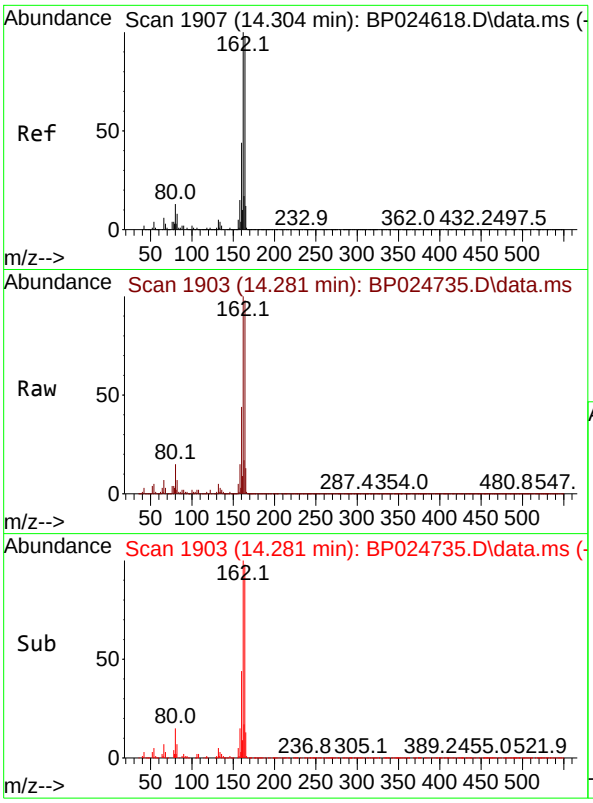


#38
1-Methylnaphthalene
Concen: 37.092 ng
RT: 12.304 min Scan# 1567
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:142 Resp: 732371

Ion	Ratio	Lower	Upper
142	100		
141	94.0	74.7	112.1
116	4.2	3.4	5.2

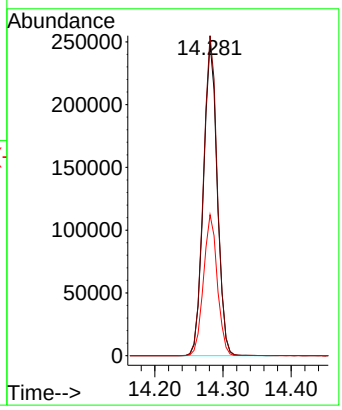




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.281 min Scan# 1
Delta R.T. -0.023 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:164 Resp: 35045

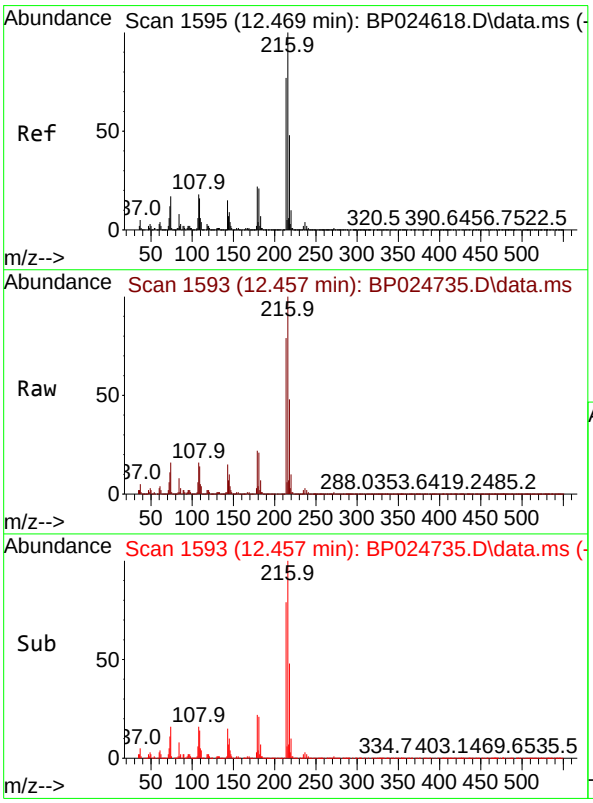
Ion	Ratio	Lower	Upper
164	100		
162	102.3	81.8	122.6
160	45.1	36.3	54.5



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

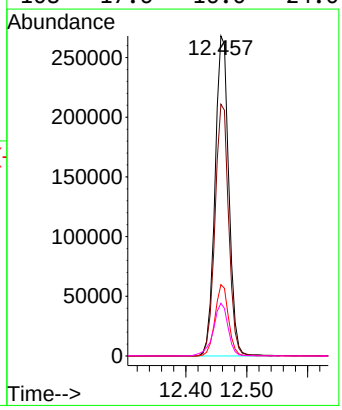
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

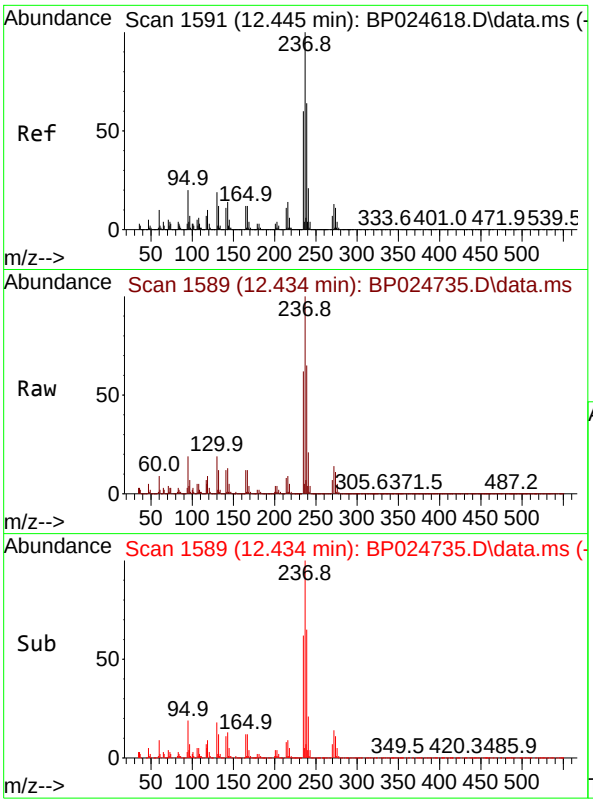


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.450 ng
RT: 12.457 min Scan# 1593
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:216 Resp: 421830

Ion	Ratio	Lower	Upper
216	100		
214	78.3	62.3	93.5
179	21.8	17.7	26.5
108	17.6	16.0	24.0





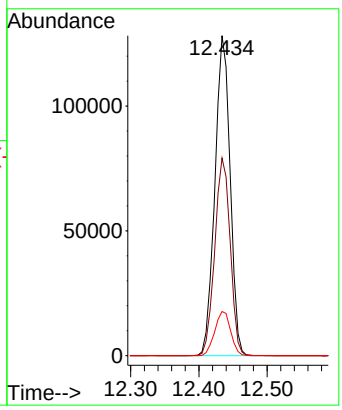
#41
Hexachlorocyclopentadiene
Concen: 32.301 ng
RT: 12.434 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

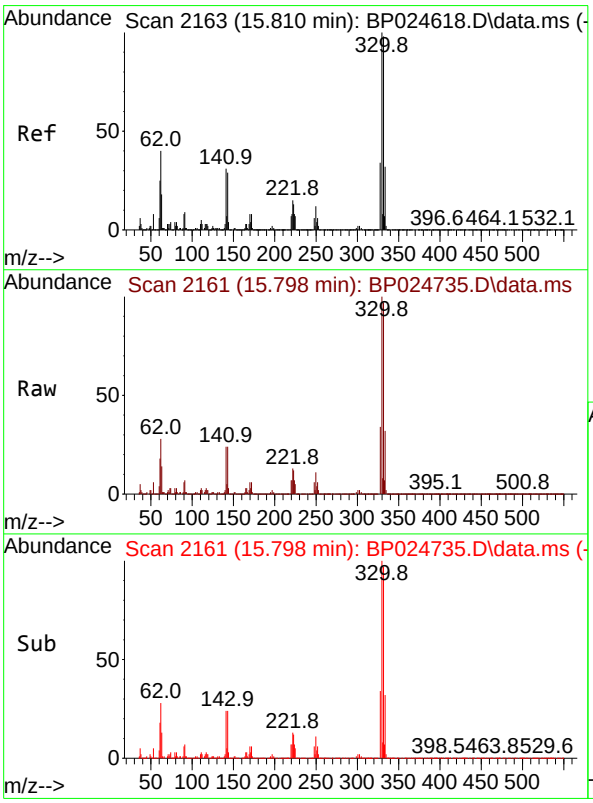
Tgt Ion:237 Resp: 19932

Ion	Ratio	Lower	Upper
237	100		
235	61.8	39.9	79.9
272	13.8	0.0	33.2

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

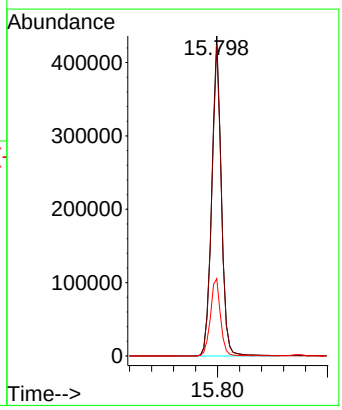


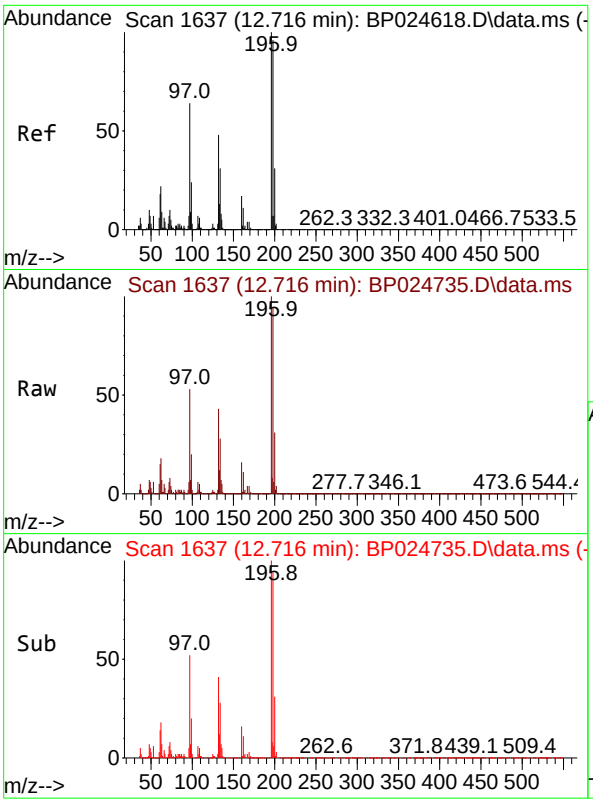


#42
2,4,6-Tribromophenol
Concen: 88.157 ng
RT: 15.798 min Scan# 2161
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:330 Resp: 523753

Ion	Ratio	Lower	Upper
330	100		
332	97.9	78.2	117.4
141	25.5	24.3	36.5

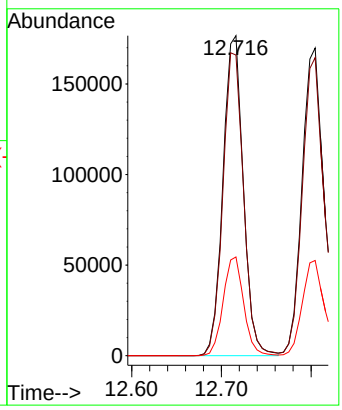




#43
2,4,6-Trichlorophenol
Concen: 42.185 ng
RT: 12.716 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:196 Resp: 27806

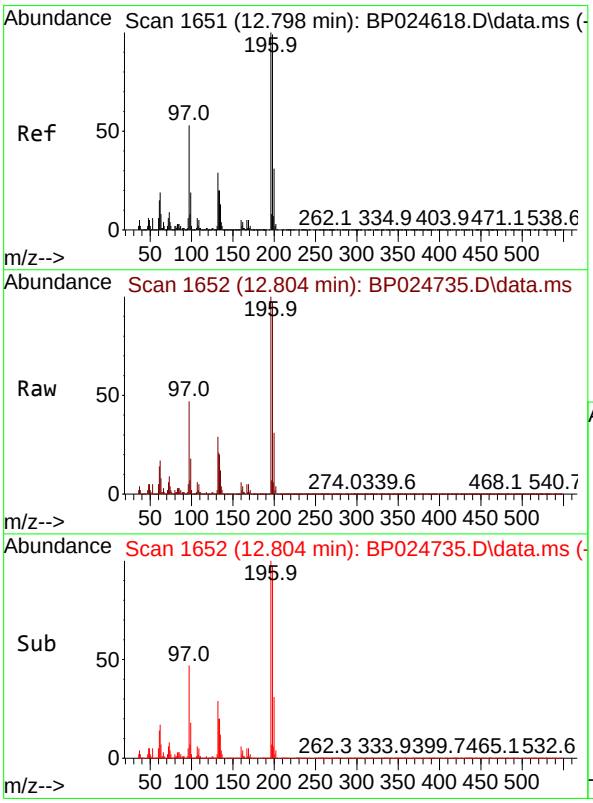
Ion	Ratio	Lower	Upper
196	100		
198	93.9	76.9	115.3
200	30.9	25.2	37.8



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

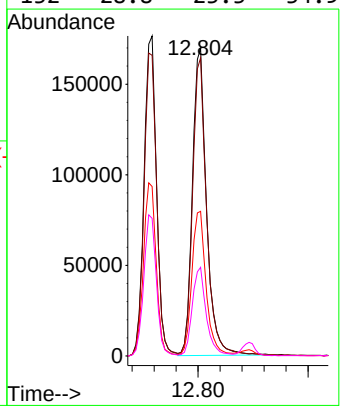
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

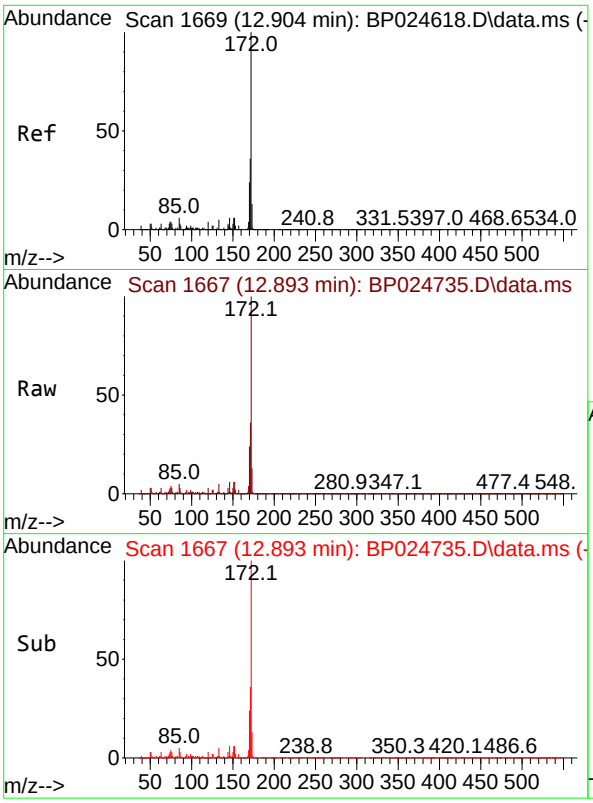


#44
2,4,5-Trichlorophenol
Concen: 41.236 ng
RT: 12.804 min Scan# 1652
Delta R.T. 0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:196 Resp: 302556

Ion	Ratio	Lower	Upper
196	100		
198	96.9	79.2	118.8
97	47.0	42.3	63.5
132	28.8	23.3	34.9

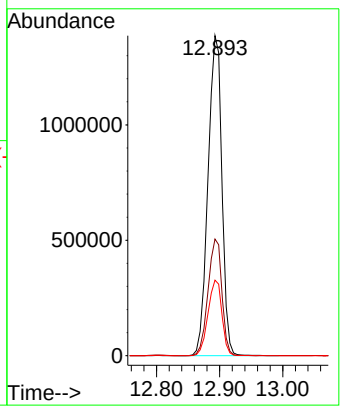




#45
2-Fluorobiphenyl
Concen: 79.041 ng
RT: 12.893 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:172 Resp: 211430

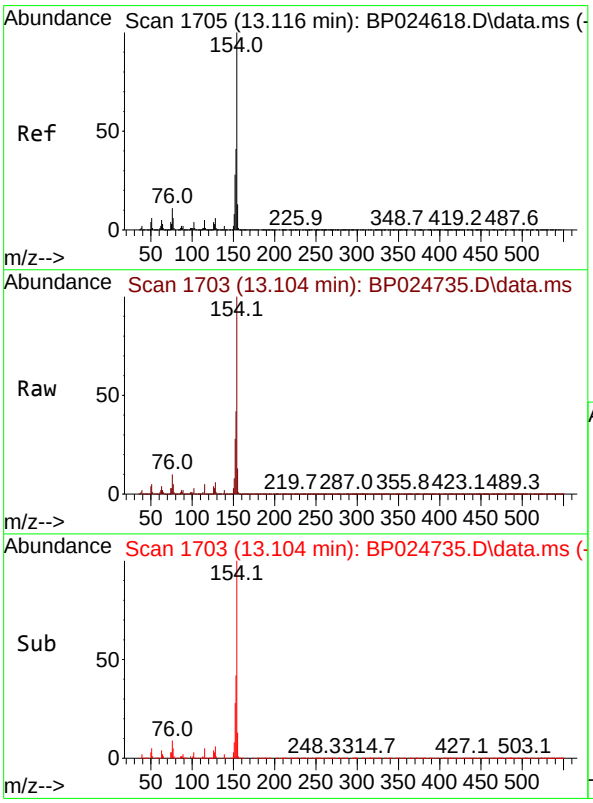
Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.8	43.2
170	23.6	18.8	28.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

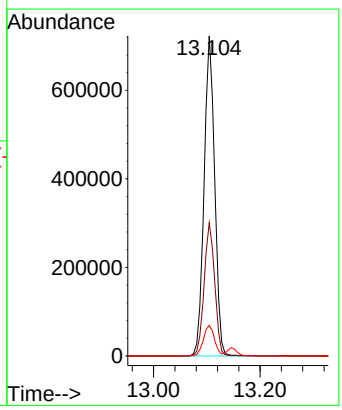
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

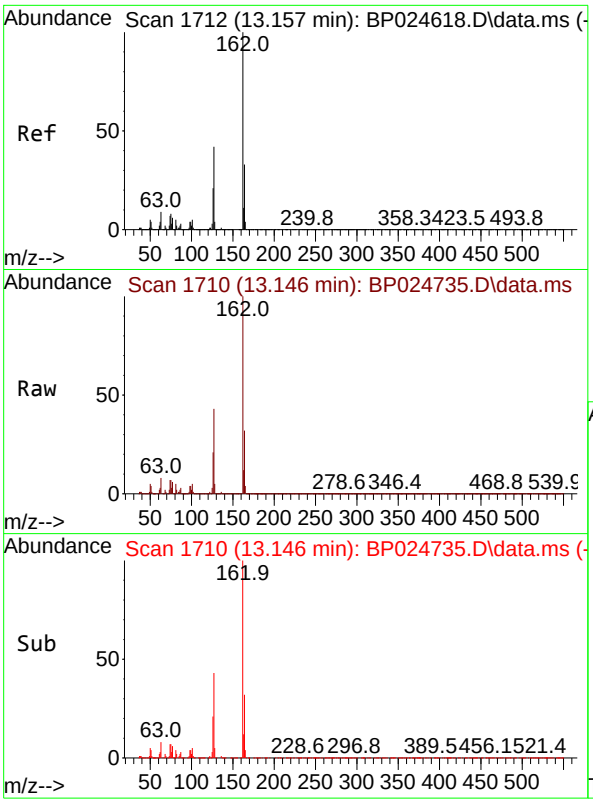


#46
1,1'-Biphenyl
Concen: 38.476 ng
RT: 13.104 min Scan# 1703
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:154 Resp: 996616

Ion	Ratio	Lower	Upper
154	100		
153	41.6	21.0	61.0
76	9.5	0.0	31.5

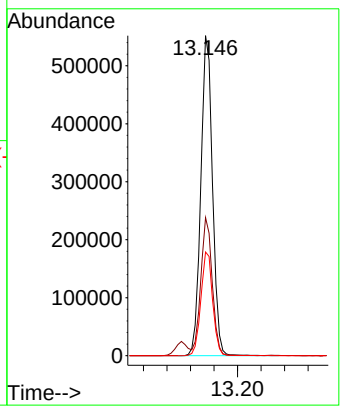




#47
2-Chloronaphthalene
Concen: 38.593 ng
RT: 13.146 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

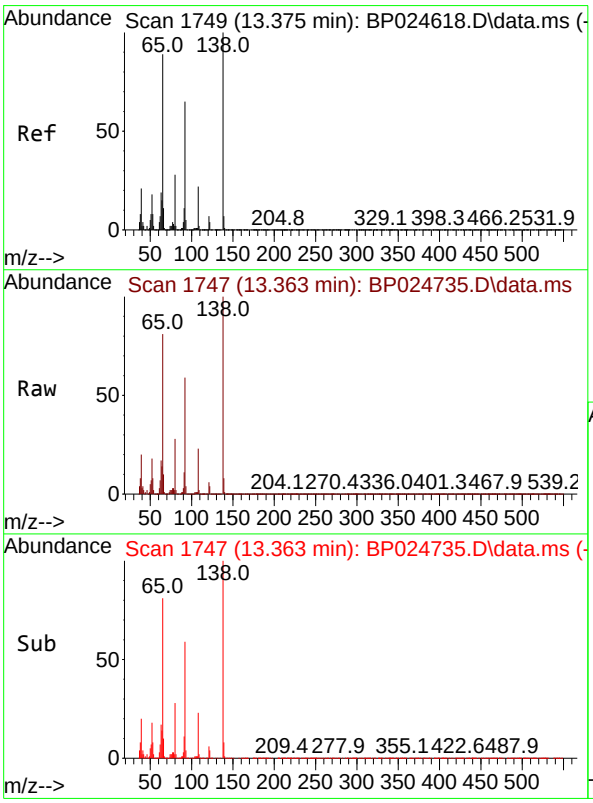
Tgt Ion:162 Resp: 76220

Ion	Ratio	Lower	Upper
162	100		
127	43.1	33.8	50.6
164	32.4	26.0	39.0



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

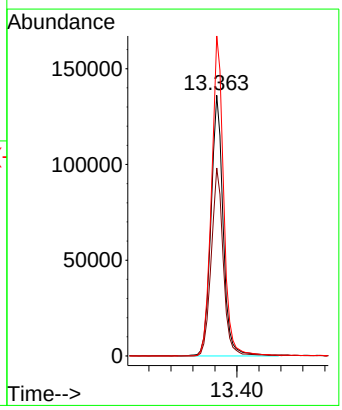
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

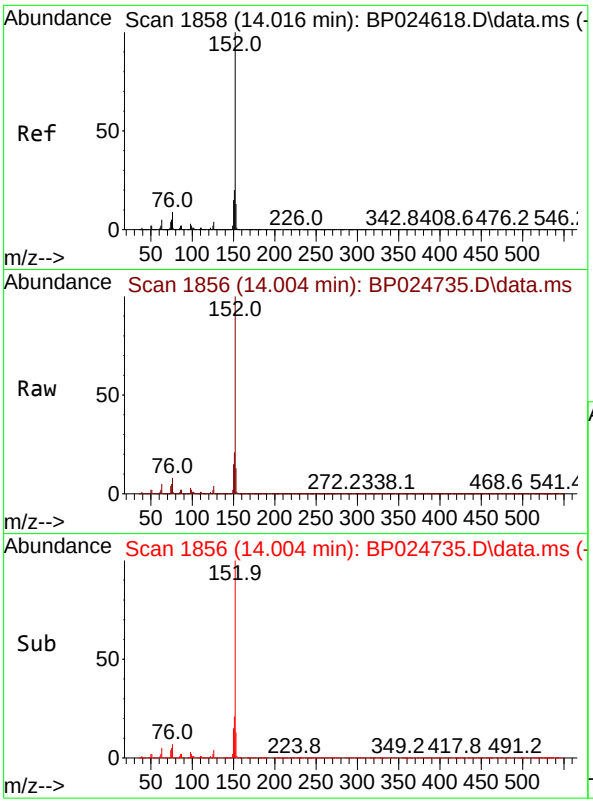


#48
2-Nitroaniline
Concen: 35.867 ng
RT: 13.363 min Scan# 1747
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 65 Resp: 209721

Ion	Ratio	Lower	Upper
65	100		
92	72.1	58.7	88.1
138	122.8	90.2	135.2

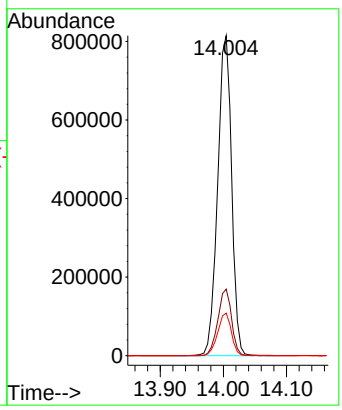




#49
Acenaphthylene
Concen: 37.738 ng
RT: 14.004 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:152 Resp: 124725

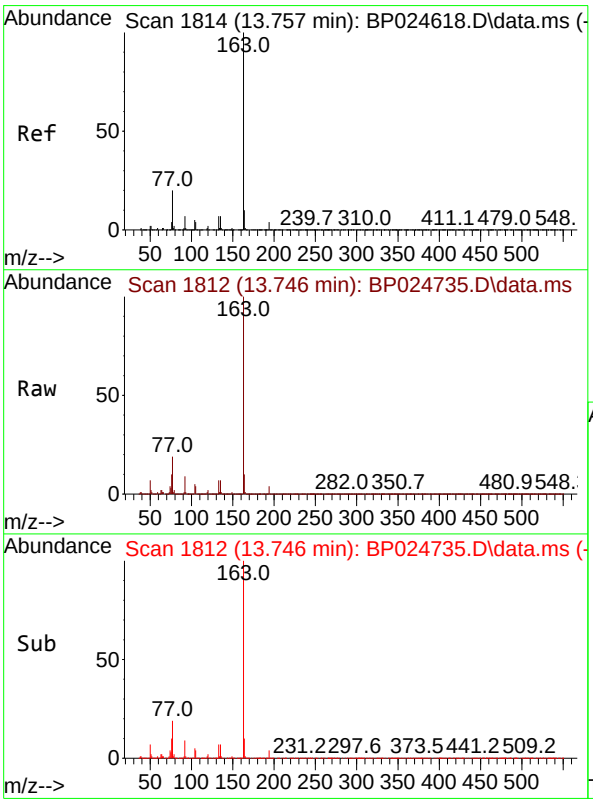
Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.2	24.4
153	13.3	10.2	15.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

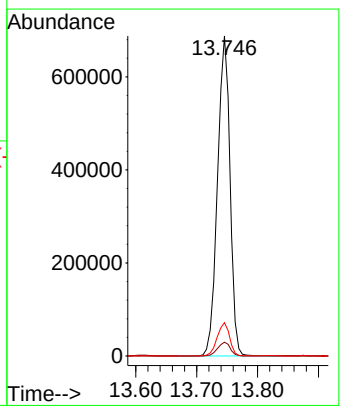
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

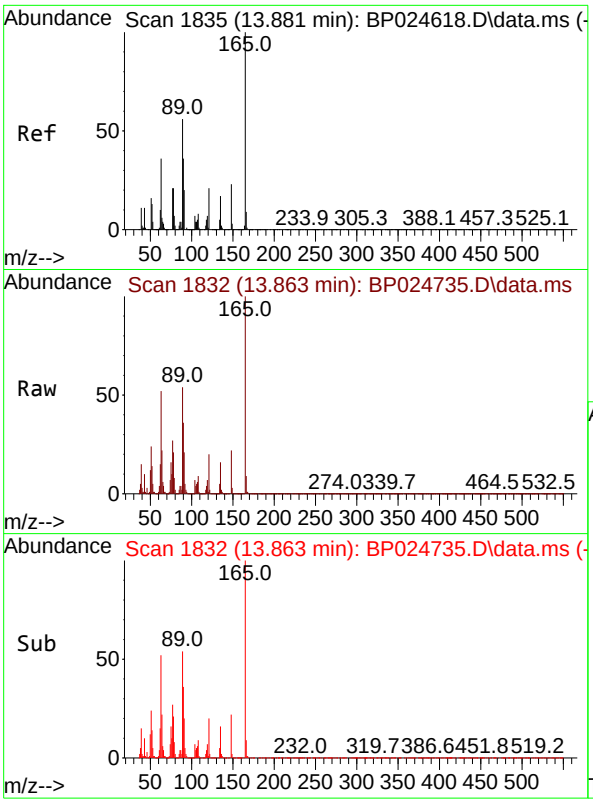


#50
Dimethylphthalate
Concen: 36.630 ng
RT: 13.746 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:163 Resp: 978456

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.0
164	10.4	8.1	12.1





#51
2,6-Dinitrotoluene
Concen: 37.707 ng
RT: 13.863 min Scan# 1
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

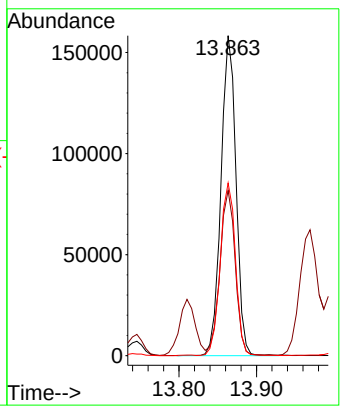
Tgt Ion:165 Resp: 21271

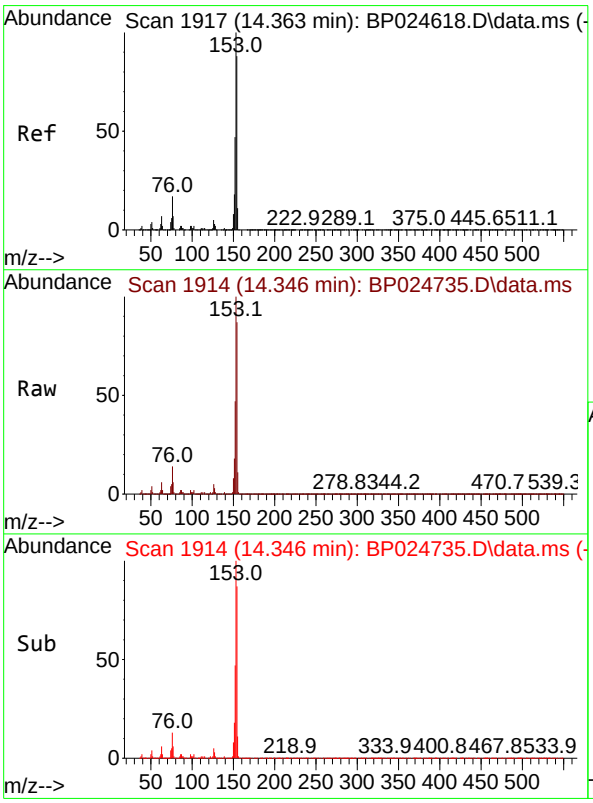
Ion	Ratio	Lower	Upper
165	100		
63	51.7	42.4	63.6
89	53.9	44.8	67.2

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

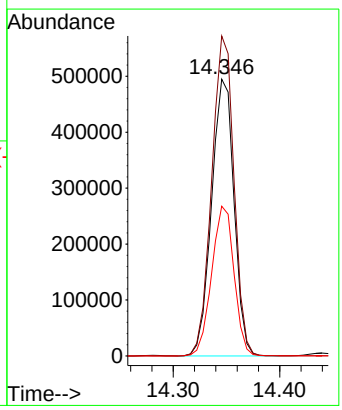


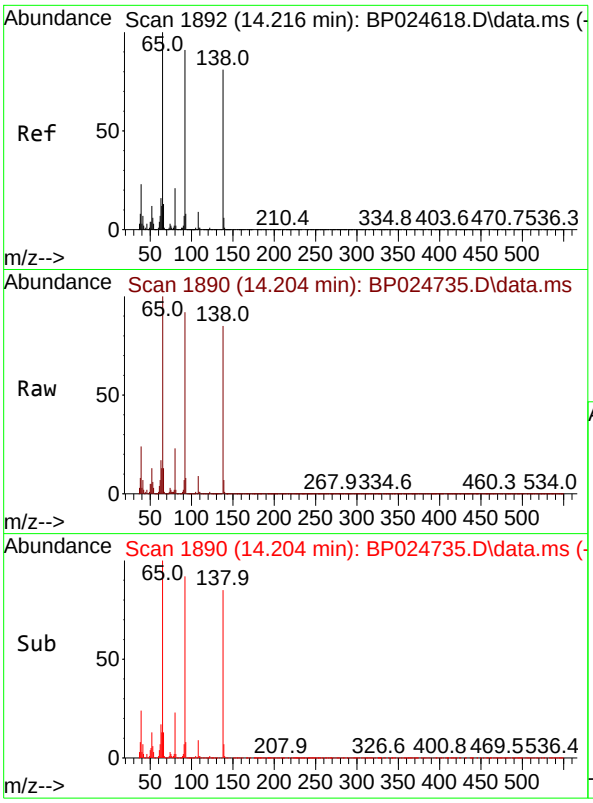


#52
Acenaphthene
Concen: 38.090 ng
RT: 14.346 min Scan# 1914
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:154 Resp: 723732

Ion	Ratio	Lower	Upper
154	100		
153	115.6	91.0	136.4
152	54.1	42.9	64.3





#53
3-Nitroaniline
Concen: 37.805 ng
RT: 14.204 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

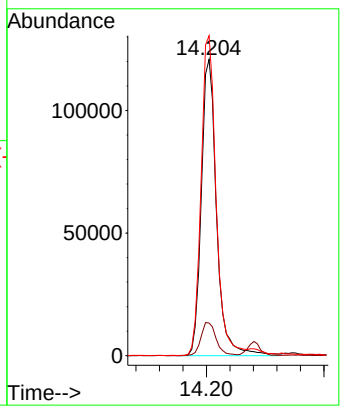
Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

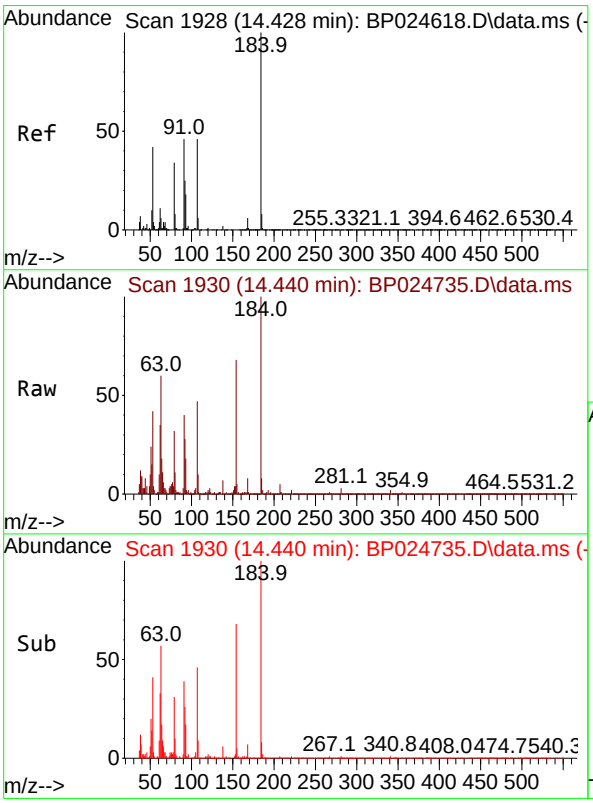
Tgt Ion:138 Resp: 21776

Ion	Ratio	Lower	Upper
138	100		
108	11.0	9.0	13.4
92	108.0	90.1	135.1

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

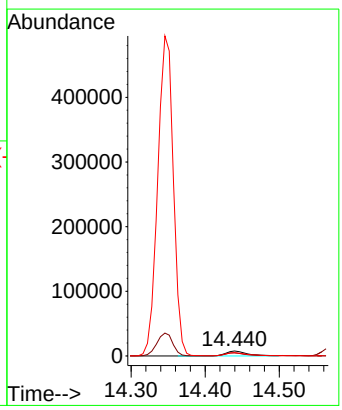


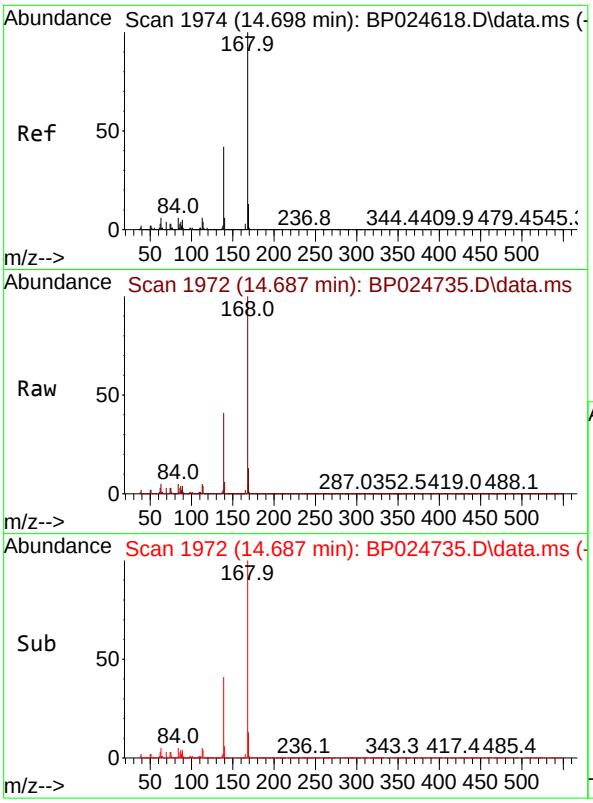


#54
2,4-Dinitrophenol
Concen: 10.460 ng
RT: 14.440 min Scan# 1930
Delta R.T. 0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:184 Resp: 15696

Ion	Ratio	Lower	Upper
184	100		
63	60.4	51.3	76.9
154	68.1	53.5	80.3

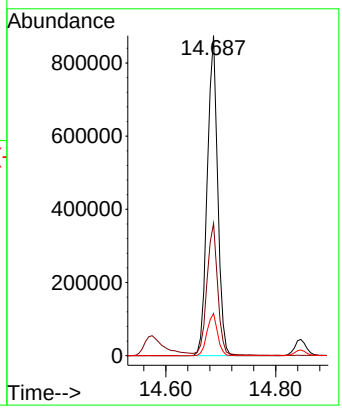




#55
Dibenzofuran
Concen: 37.811 ng
RT: 14.687 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:168 Resp: 114593

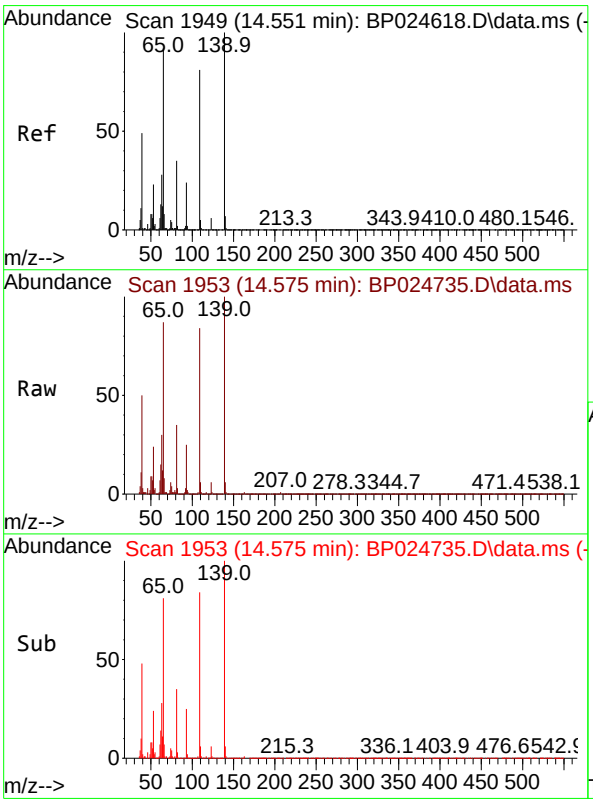
Ion	Ratio	Lower	Upper
168	100		
139	41.3	34.2	51.4
169	13.2	10.8	16.2



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

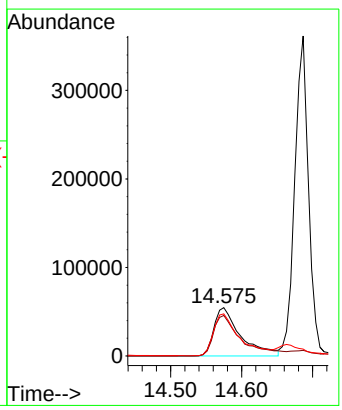
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

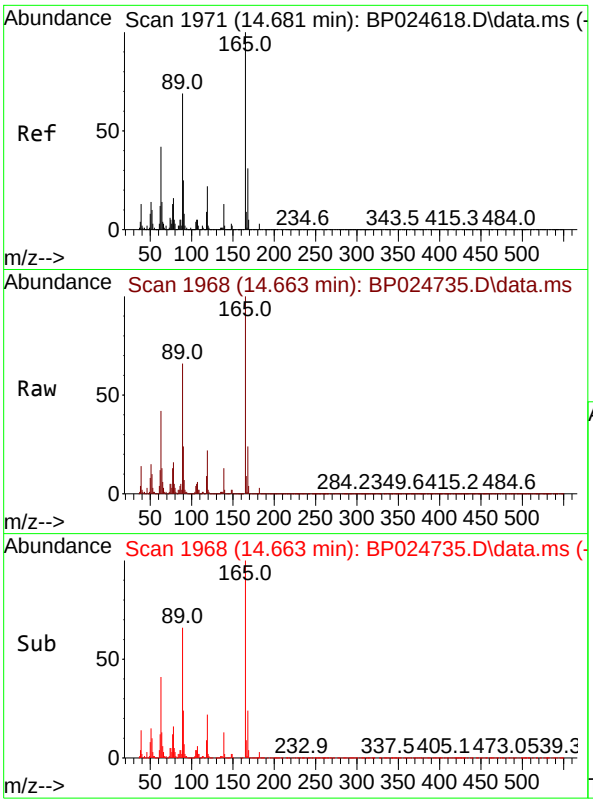


#56
4-Nitrophenol
Concen: 31.121 ng
RT: 14.575 min Scan# 1953
Delta R.T. 0.024 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:139 Resp: 141573

Ion	Ratio	Lower	Upper
139	100		
109	83.9	61.4	101.4
65	87.1	72.2	112.2

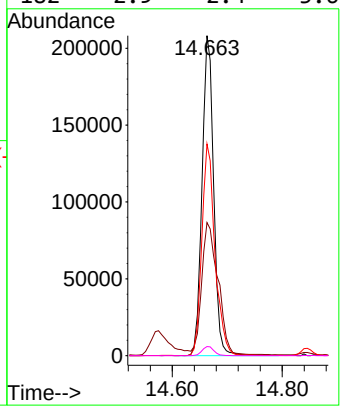




#57
2,4-Dinitrotoluene
Concen: 38.189 ng
RT: 14.663 min Scan# 1
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

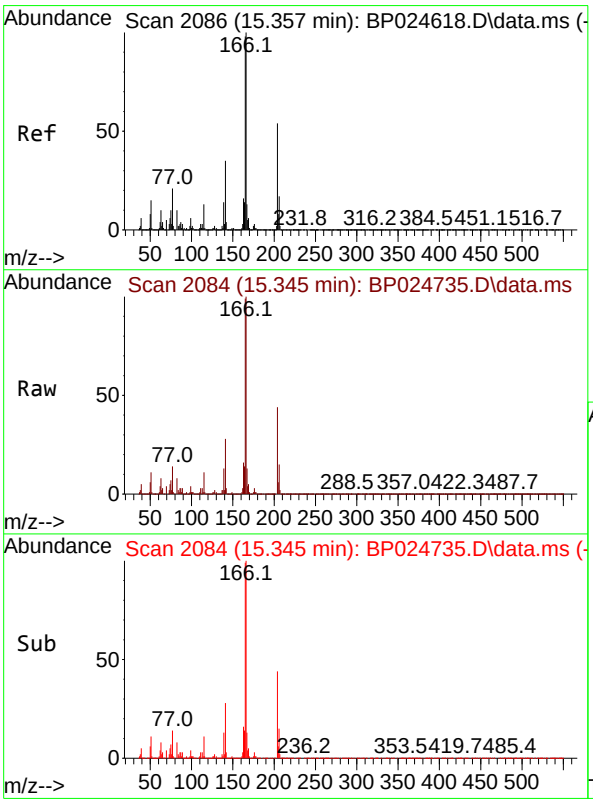
Tgt Ion:165 Resp: 30373

Ion	Ratio	Lower	Upper
165	100		
63	41.6	33.8	50.6
89	66.2	55.6	83.4
182	2.9	2.4	3.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

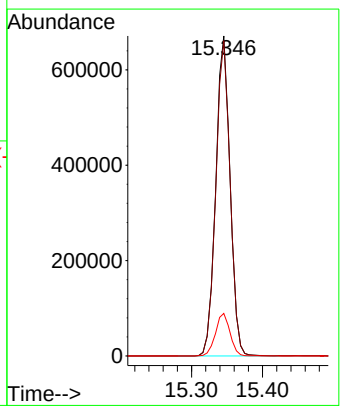
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

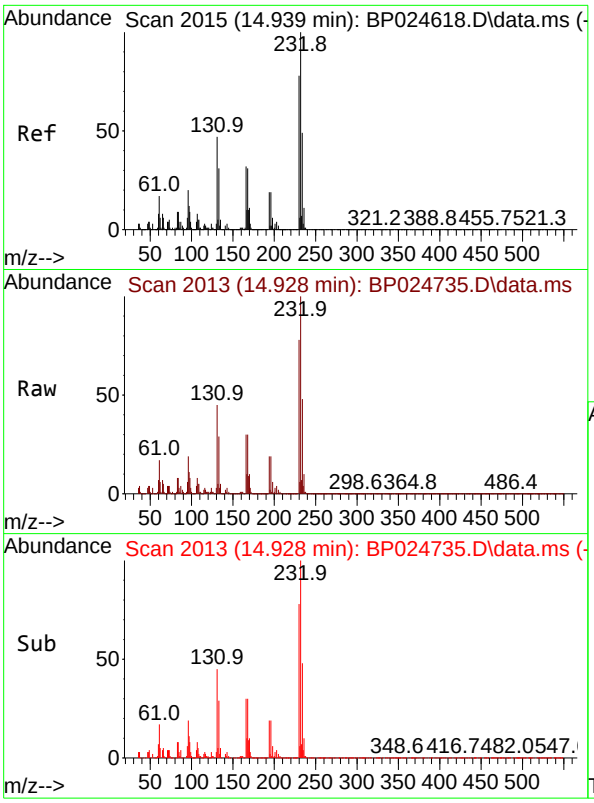


#58
Fluorene
Concen: 37.799 ng
RT: 15.345 min Scan# 2084
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:166 Resp: 934089

Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.5	117.7
167	13.3	10.7	16.1

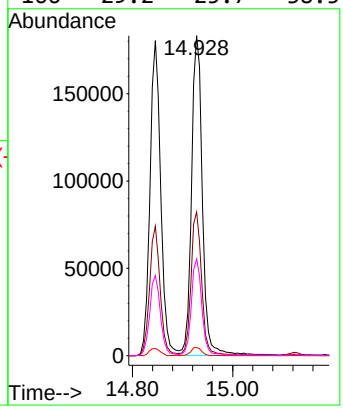




#59
2,3,4,6-Tetrachlorophenol
Concen: 40.312 ng
RT: 14.928 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:232 Resp: 27438

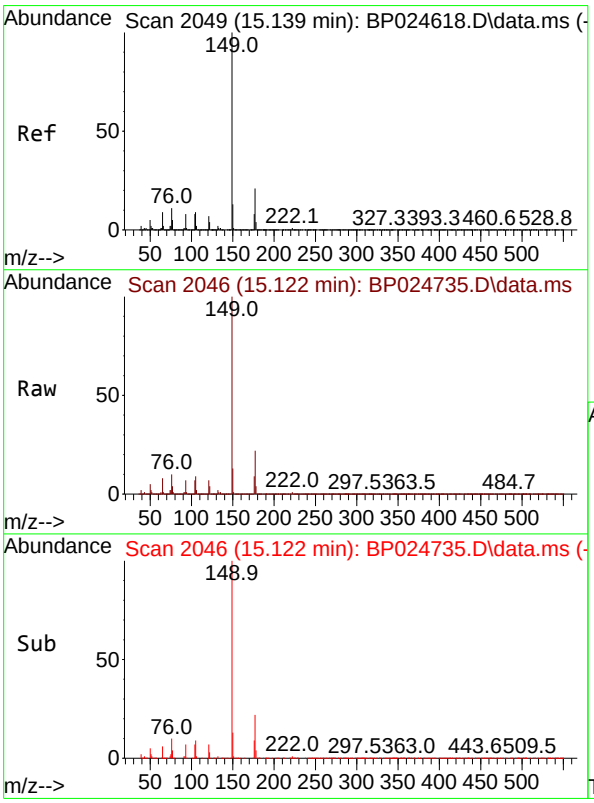
Ion	Ratio	Lower	Upper
232	100		
131	43.7	39.5	59.3
130	2.6	2.2	3.4
166	29.2	25.7	38.5



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

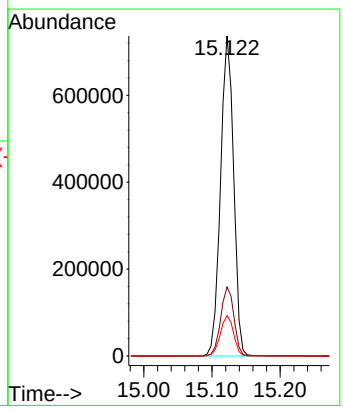
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

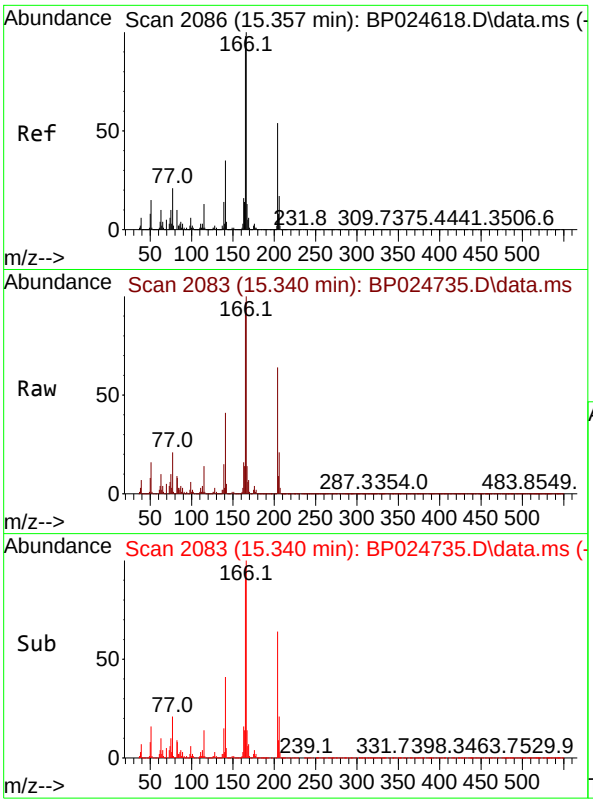


#60
Diethylphthalate
Concen: 36.452 ng
RT: 15.122 min Scan# 2046
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:149 Resp: 984129

Ion	Ratio	Lower	Upper
149	100		
177	21.6	16.7	25.1
150	12.6	10.2	15.2

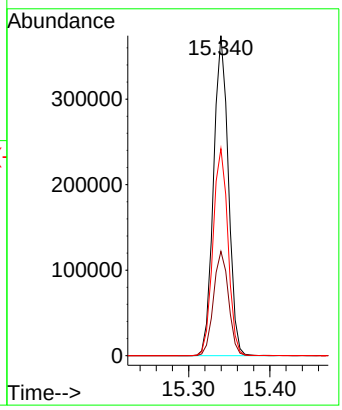




#61
4-Chlorophenyl-phenylether
Concen: 38.510 ng
RT: 15.340 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:204 Resp: 47459

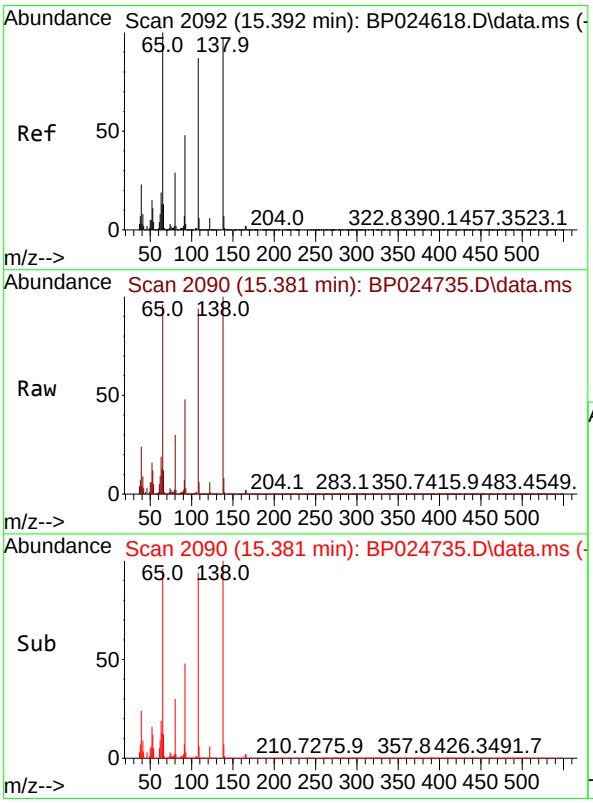
Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.0	39.0
141	64.7	52.9	79.3



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

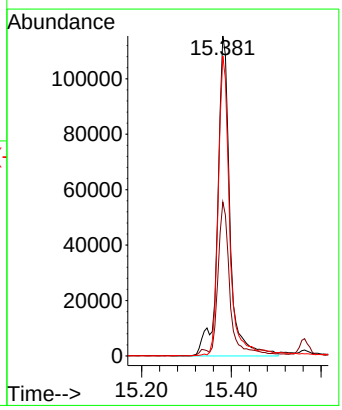
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

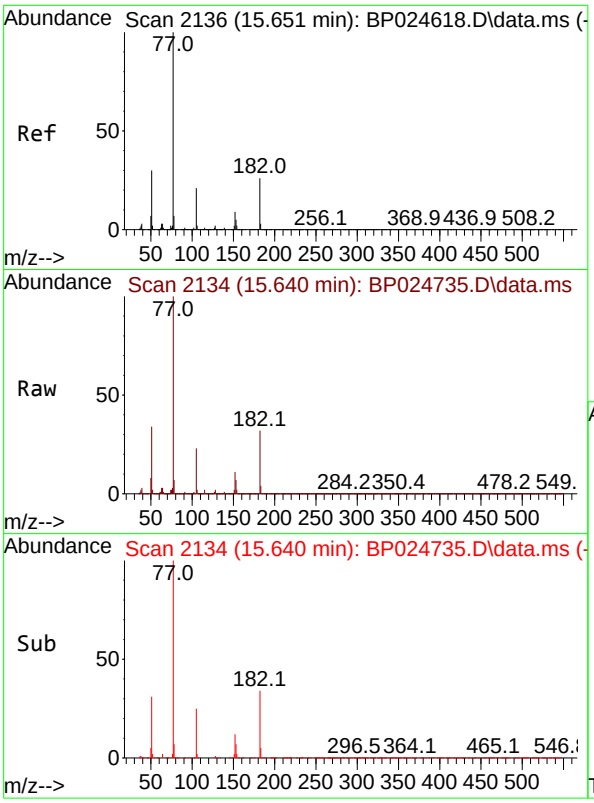


#62
4-Nitroaniline
Concen: 39.618 ng
RT: 15.381 min Scan# 2090
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:138 Resp: 220352

Ion	Ratio	Lower	Upper
138	100		
92	48.1	29.2	69.2
108	93.7	69.0	109.0

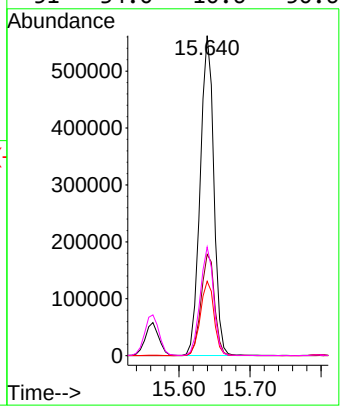




#63
Azobenzene
Concen: 32.520 ng
RT: 15.640 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

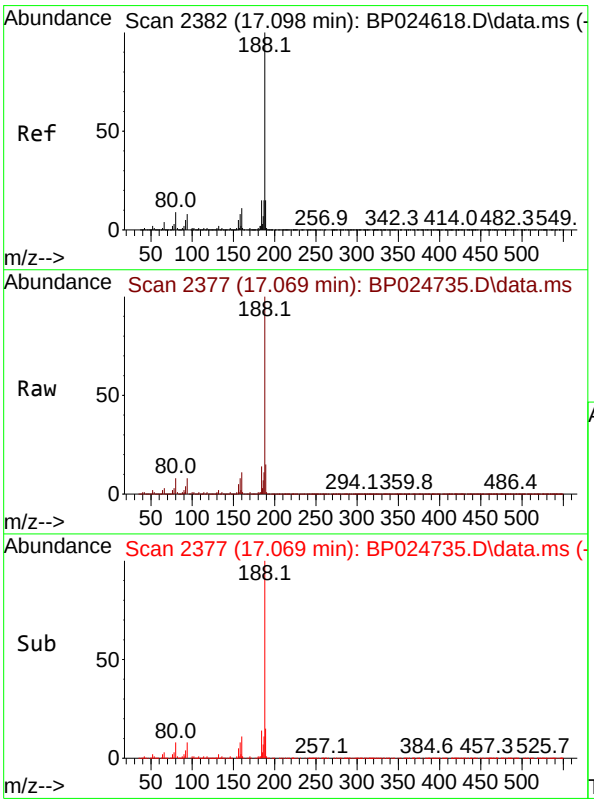
Tgt Ion: 77 Resp: 75108

Ion	Ratio	Lower	Upper
77	100		
182	31.6	5.7	45.7
105	23.2	1.3	41.3
51	34.0	10.6	50.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

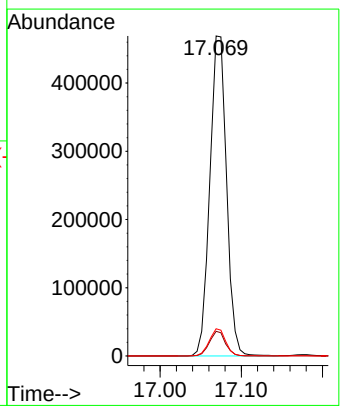
Manual Integrations
APPROVED
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

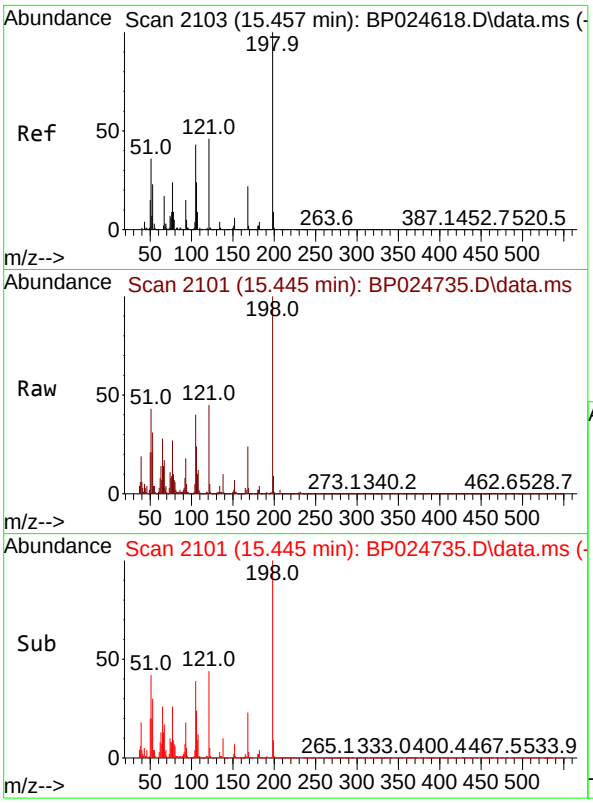


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.069 min Scan# 2377
Delta R.T. -0.029 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:188 Resp: 669288

Ion	Ratio	Lower	Upper
188	100		
94	7.7	6.5	9.7
80	8.5	7.3	10.9





#65
4,6-Dinitro-2-methylphenol
Concen: 12.362 ng
RT: 15.445 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

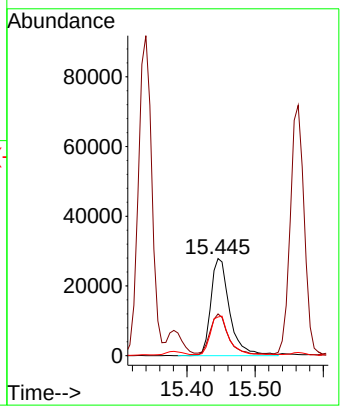
Tgt Ion:198 Resp: 5344

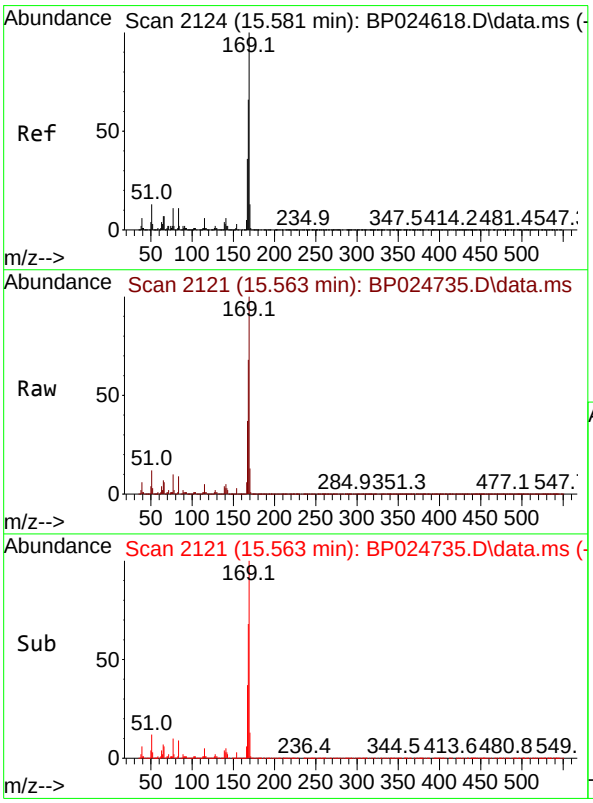
Ion	Ratio	Lower	Upper
198	100		
51	42.9	21.1	61.1
105	39.9	23.6	63.6

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

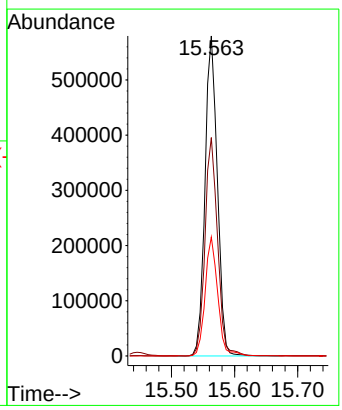


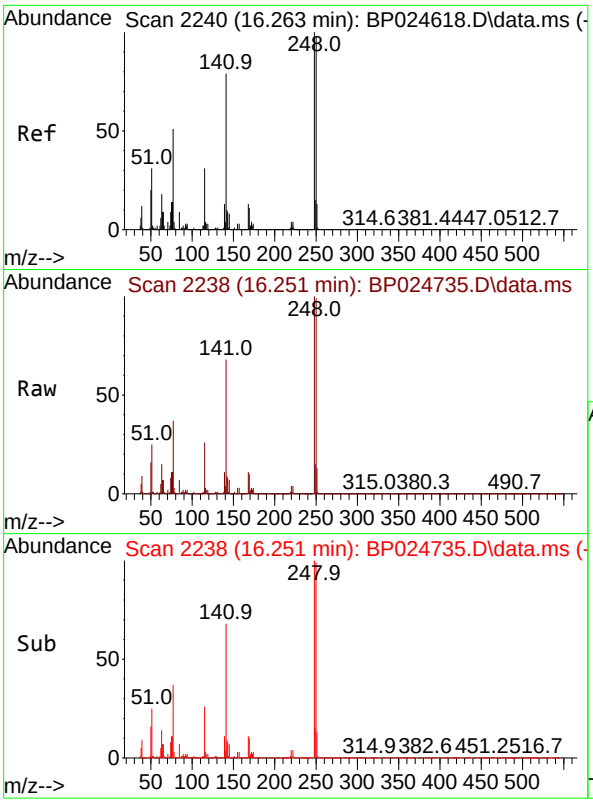


#66
n-Nitrosodiphenylamine
Concen: 38.283 ng
RT: 15.563 min Scan# 2121
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:169 Resp: 787025

Ion	Ratio	Lower	Upper
169	100		
168	68.3	53.2	79.8
167	37.1	28.6	43.0

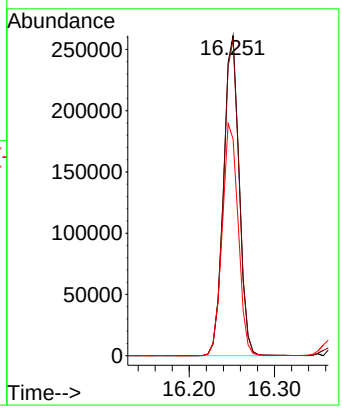




#67
4-Bromophenyl-phenylether
Concen: 42.104 ng
RT: 16.251 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:248 Resp: 33205

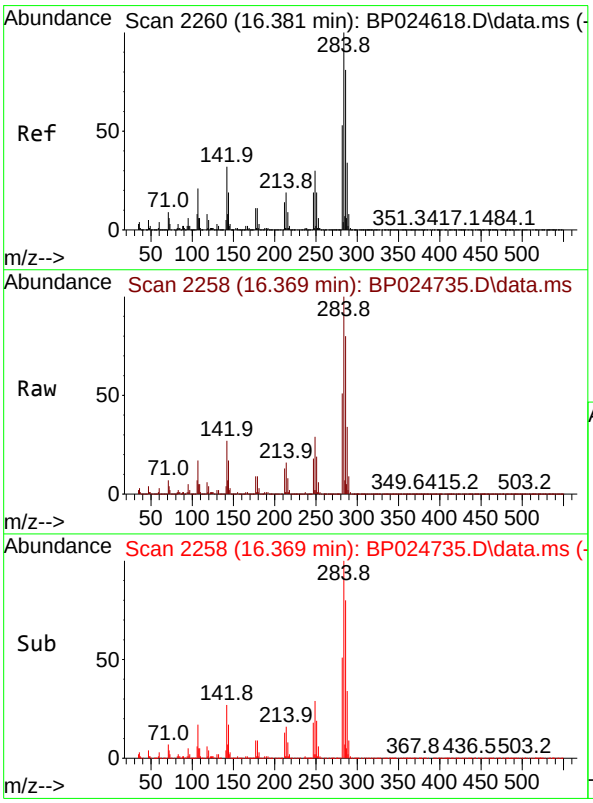
Ion	Ratio	Lower	Upper
248	100		
250	98.8	78.2	117.4
141	67.7	63.0	94.6



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

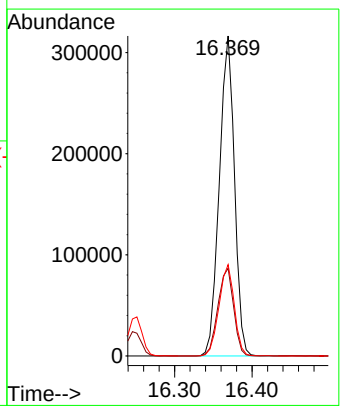
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

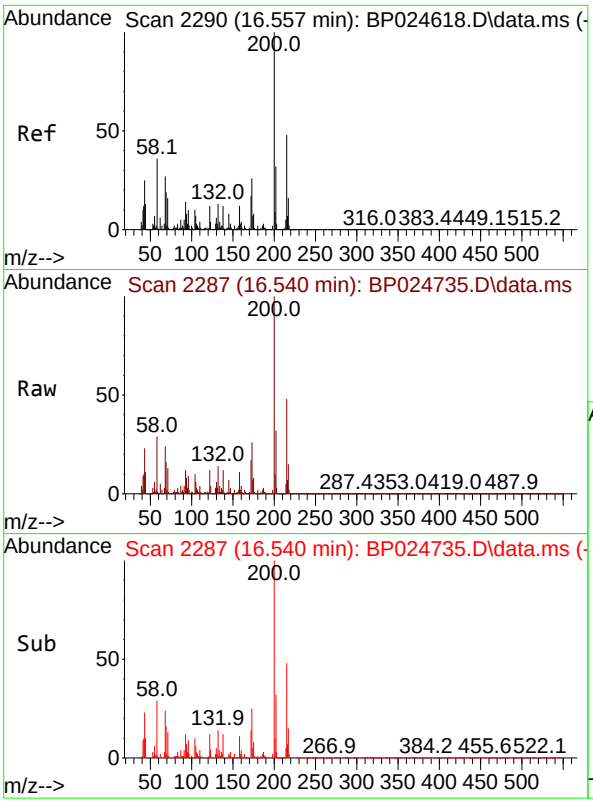


#68
Hexachlorobenzene
Concen: 42.889 ng
RT: 16.369 min Scan# 2258
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:284 Resp: 429807

Ion	Ratio	Lower	Upper
284	100		
142	27.4	25.9	38.9
249	28.6	24.1	36.1

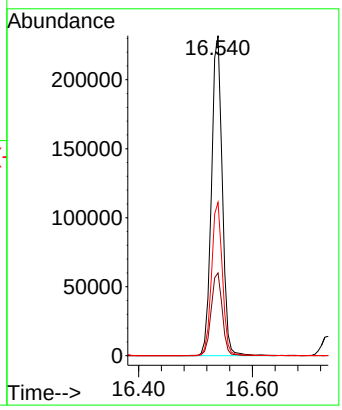




#69
Atrazine
Concen: 40.341 ng
RT: 16.540 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:200 Resp: 30392

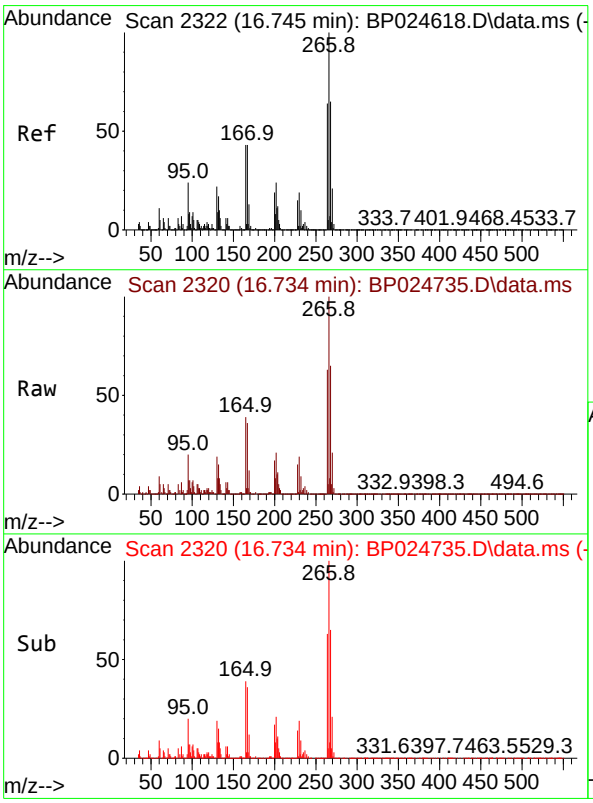
Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.9	45.9
215	47.9	28.3	68.3



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

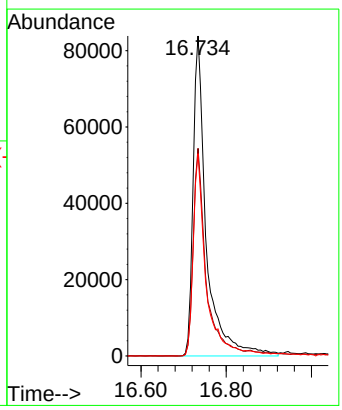
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

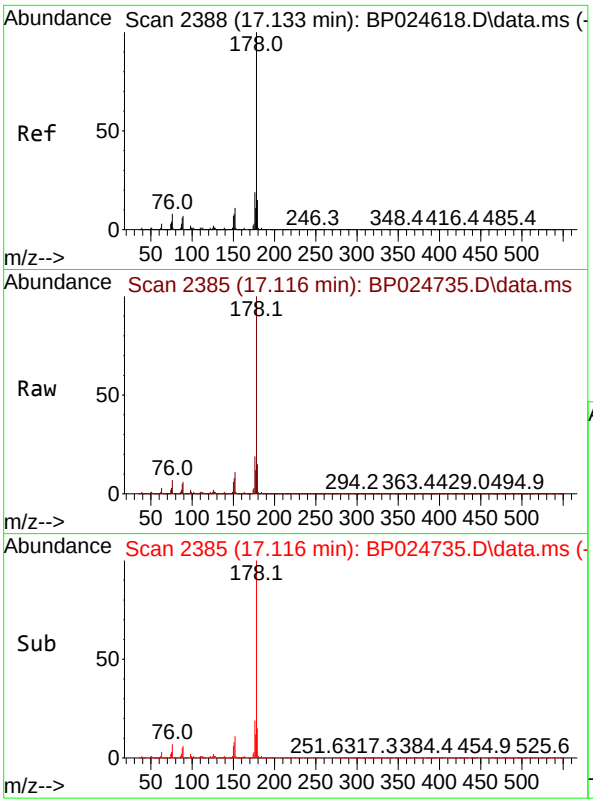


#70
Pentachlorophenol
Concen: 32.244 ng
RT: 16.734 min Scan# 2320
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:266 Resp: 181388

Ion	Ratio	Lower	Upper
266	100		
268	64.9	52.2	78.4
264	63.3	51.1	76.7

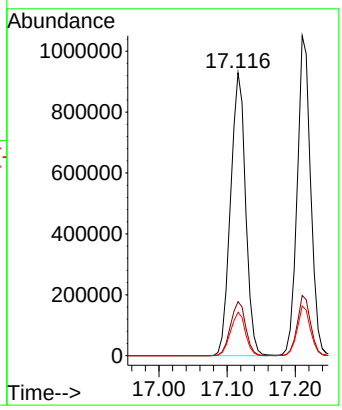




#71
Phenanthrene
Concen: 38.270 ng
RT: 17.116 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:178 Resp: 142388

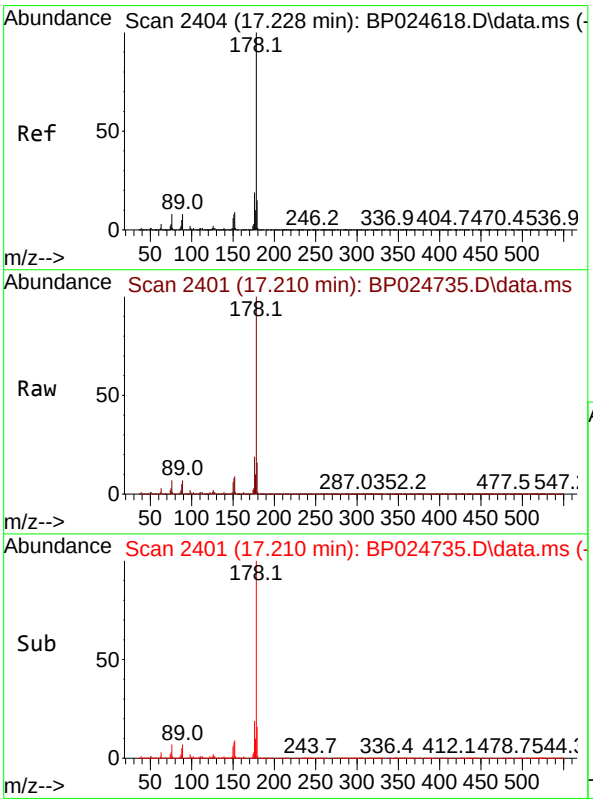
Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.4	12.2	18.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

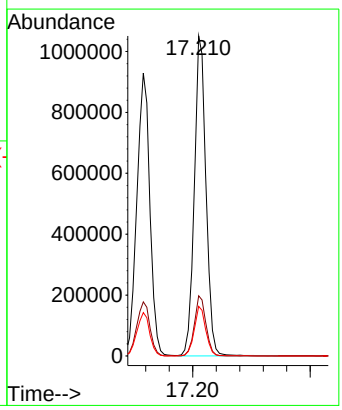
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

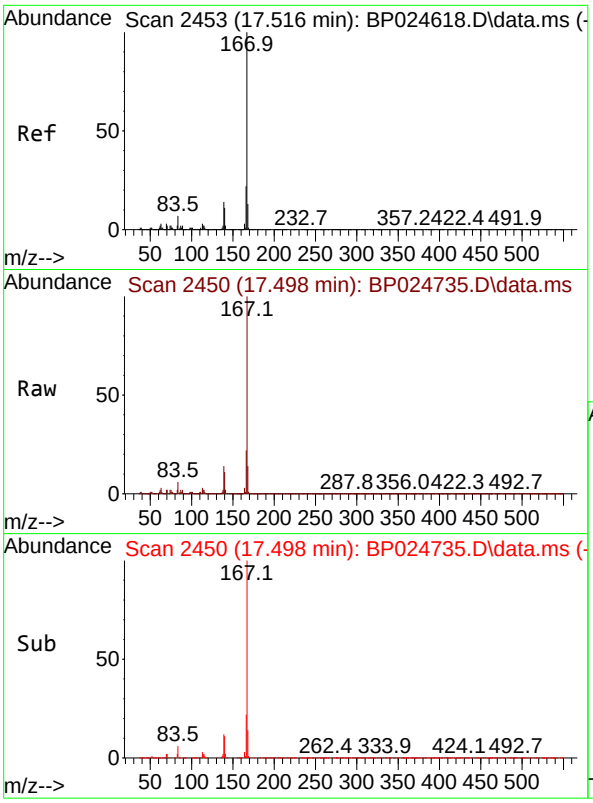


#72
Anthracene
Concen: 38.551 ng
RT: 17.210 min Scan# 2401
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:178 Resp: 1443108

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.5	12.2	18.2





#73
Carbazole
Concen: 39.114 ng
RT: 17.498 min Scan# 24
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

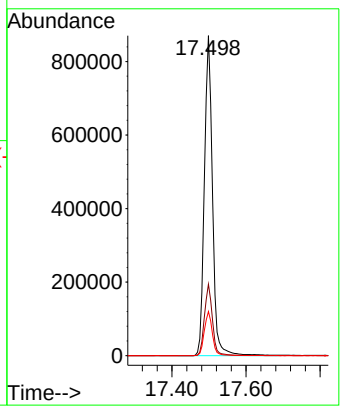
Tgt Ion:167 Resp: 132525

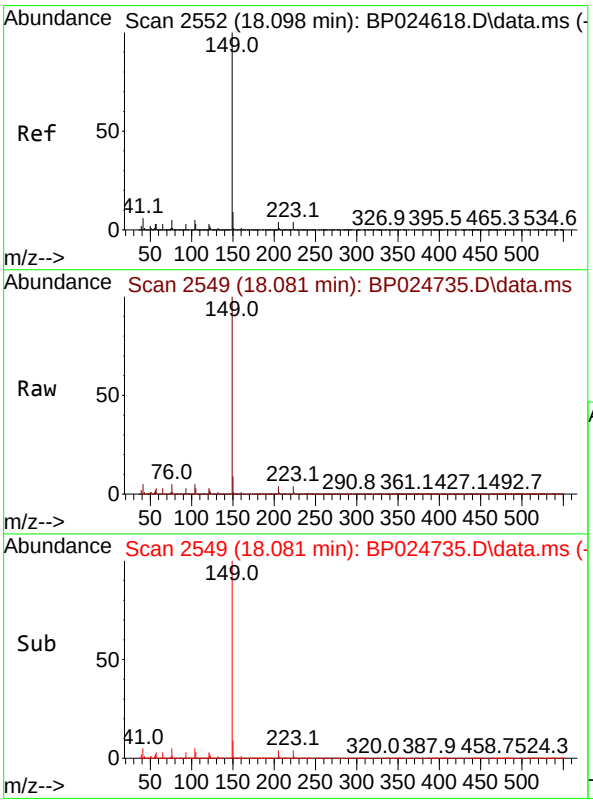
Ion	Ratio	Lower	Upper
167	100		
166	22.4	17.7	26.5
139	13.8	11.3	16.9

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

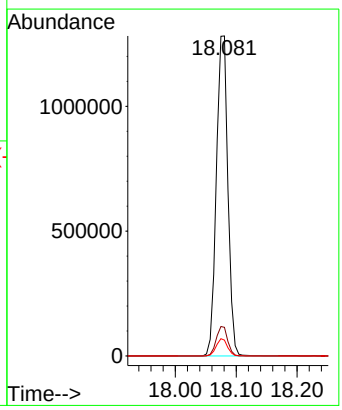


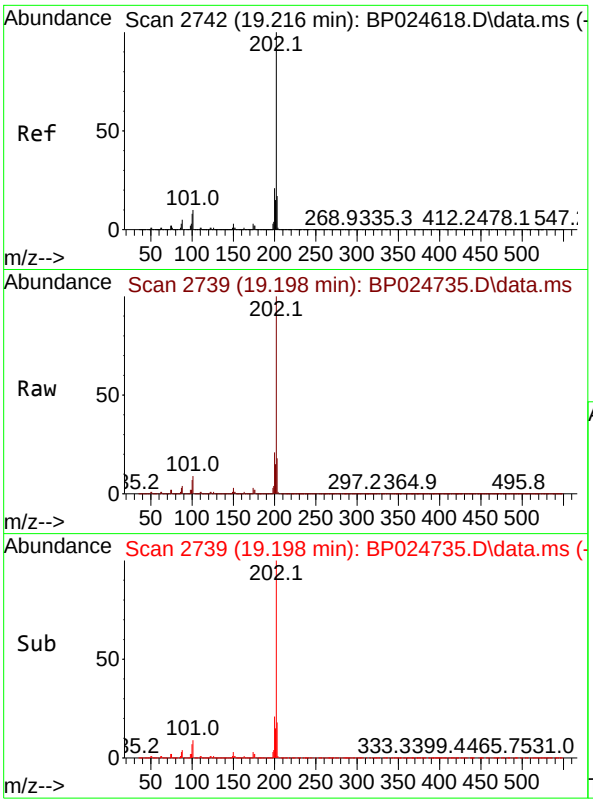


#74
Di-n-butylphthalate
Concen: 38.735 ng
RT: 18.081 min Scan# 2549
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:149 Resp: 1687862

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.2	10.8
104	5.0	4.3	6.5





#75
Fluoranthene
Concen: 39.125 ng
RT: 19.198 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

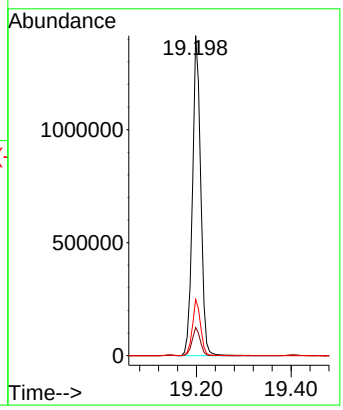
Tgt Ion:202 Resp: 170164

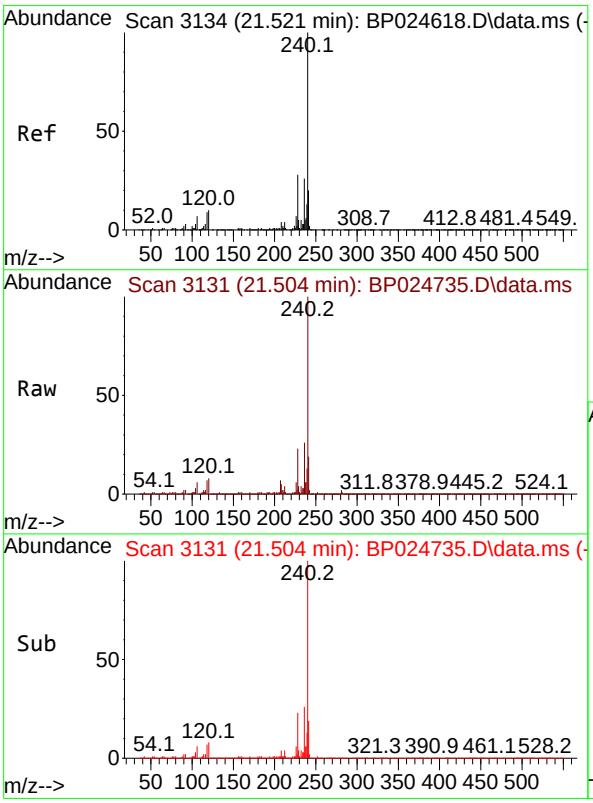
Ion	Ratio	Lower	Upper
202	100		
101	8.8	0.0	30.3
203	17.6	0.0	37.5

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

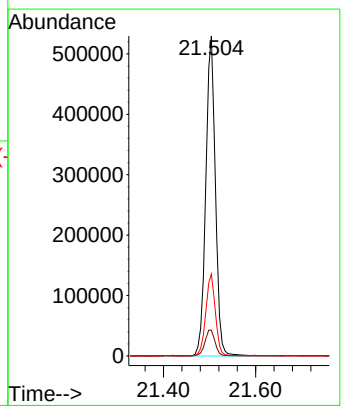


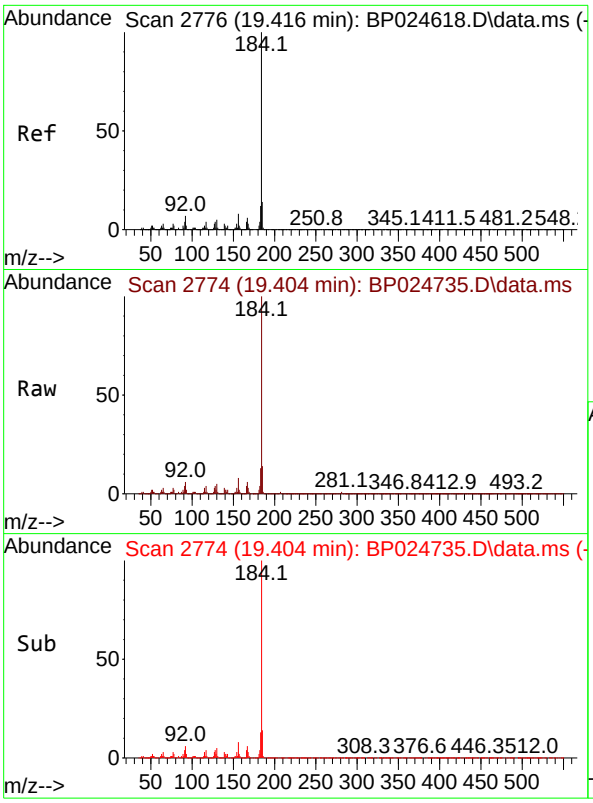


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.504 min Scan# 3131
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:240 Resp: 774145

Ion	Ratio	Lower	Upper
240	100		
120	8.1	7.8	11.6
236	25.6	20.6	31.0

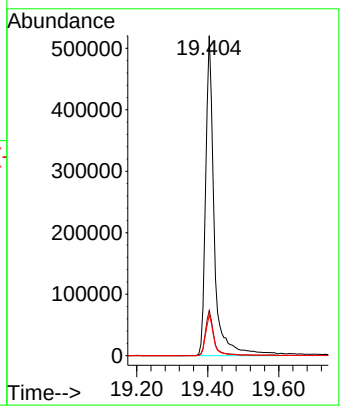




#77
Benzidine
Concen: 41.738 ng
RT: 19.404 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

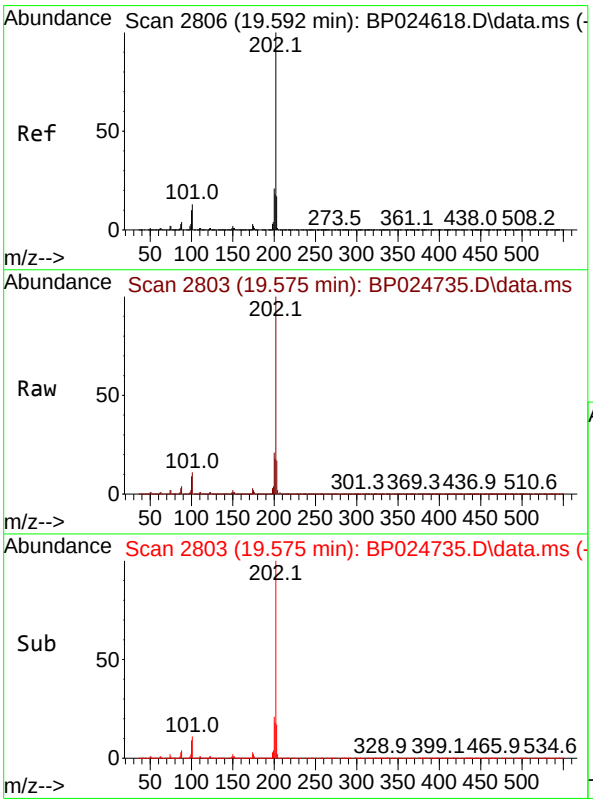
Tgt Ion:184 Resp: 88003

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.2	16.8
183	12.7	9.8	14.8



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

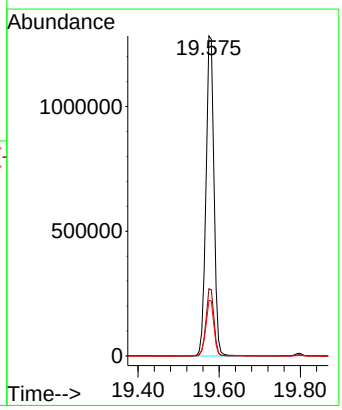
Manual Integrations APPROVED
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

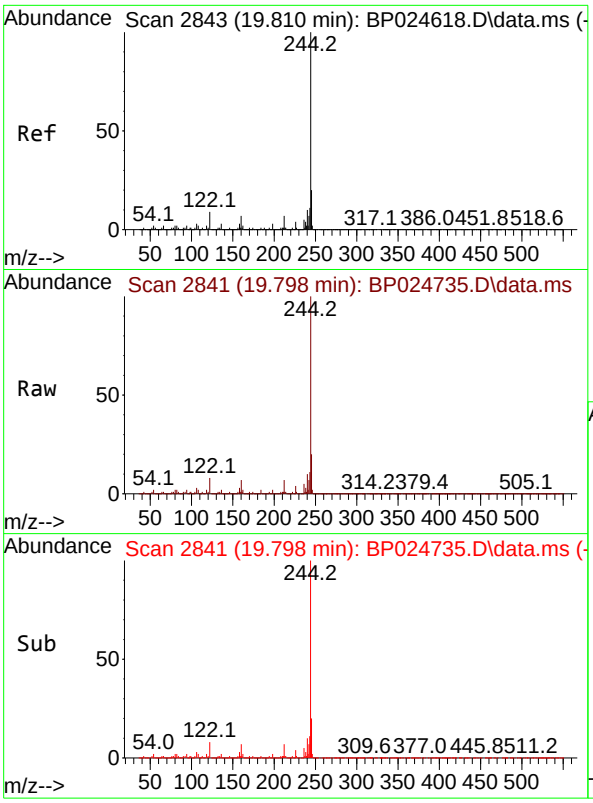


#78
Pyrene
Concen: 37.644 ng
RT: 19.575 min Scan# 2803
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:202 Resp: 1746108

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.4	13.9	20.9





#79
Terphenyl-d14
Concen: 79.516 ng
RT: 19.798 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

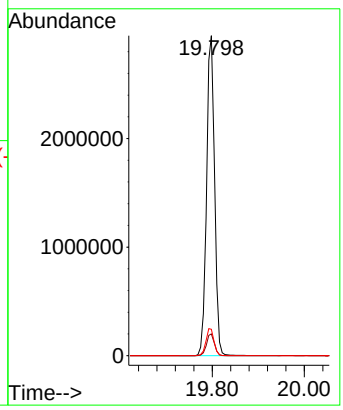
Tgt Ion:244 Resp: 358995

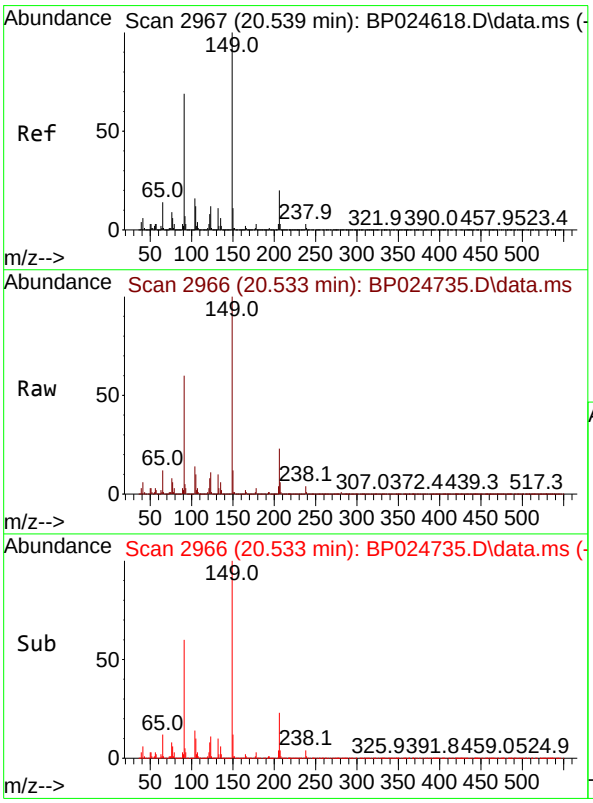
Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.5	8.3
122	8.2	7.4	11.0

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

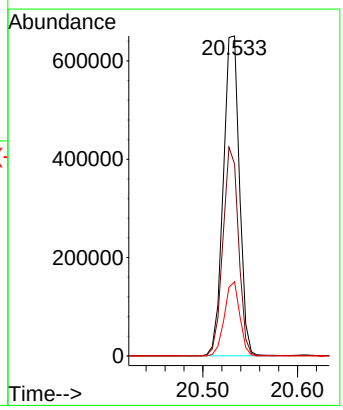


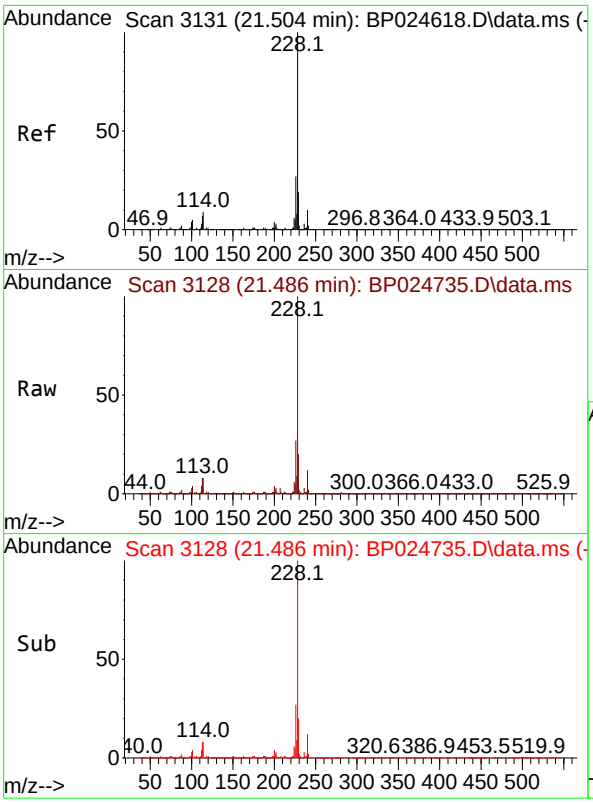


#80
Butylbenzylphthalate
Concen: 37.363 ng
RT: 20.533 min Scan# 2966
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:149 Resp: 770766

Ion	Ratio	Lower	Upper
149	100		
91	60.0	55.4	83.0
206	23.2	16.2	24.2

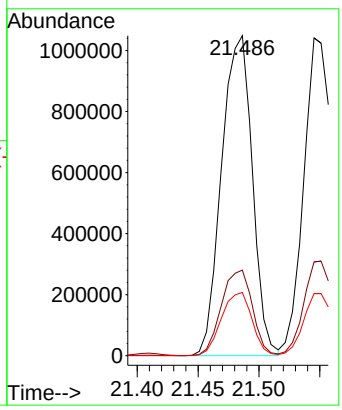




#81
Benzo(a)anthracene
Concen: 37.885 ng
RT: 21.486 min Scan# 3
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:228 Resp: 184158

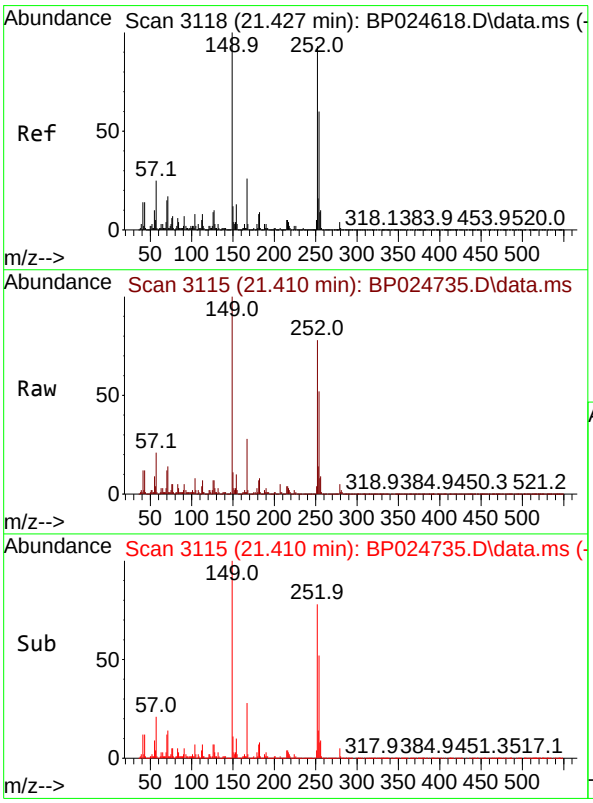
Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.4	32.0
229	19.8	15.5	23.3



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

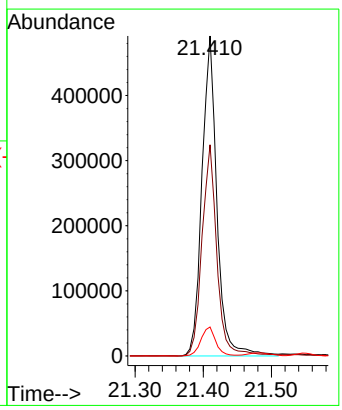
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

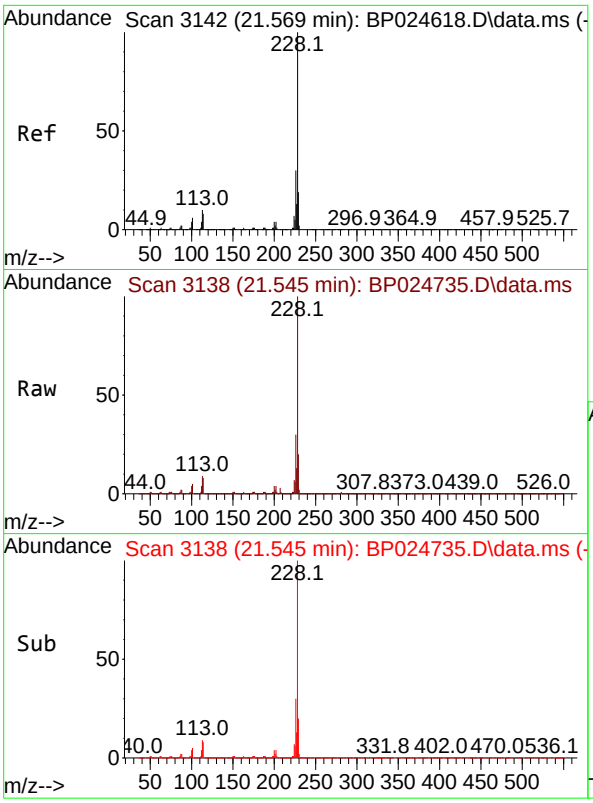


#82
3,3'-Dichlorobenzidine
Concen: 41.632 ng
RT: 21.410 min Scan# 3115
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:252 Resp: 751644

Ion	Ratio	Lower	Upper
252	100		
254	66.0	51.8	77.6
126	9.1	7.7	11.5

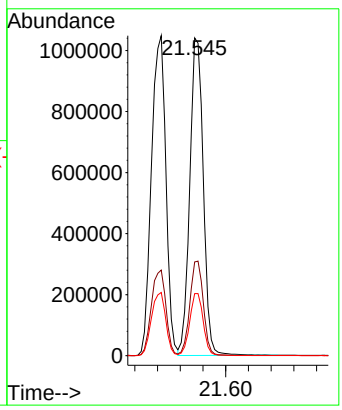




#83
Chrysene
Concen: 37.454 ng
RT: 21.545 min Scan# 3
Delta R.T. -0.023 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:228 Resp: 172588

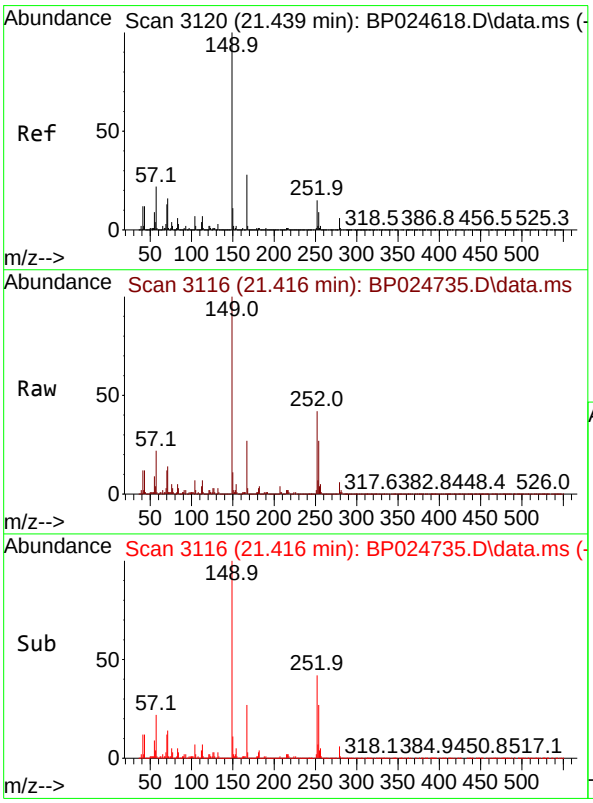
Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.9	35.9
229	19.6	15.5	23.3



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

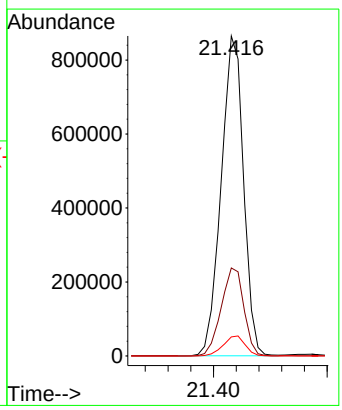
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

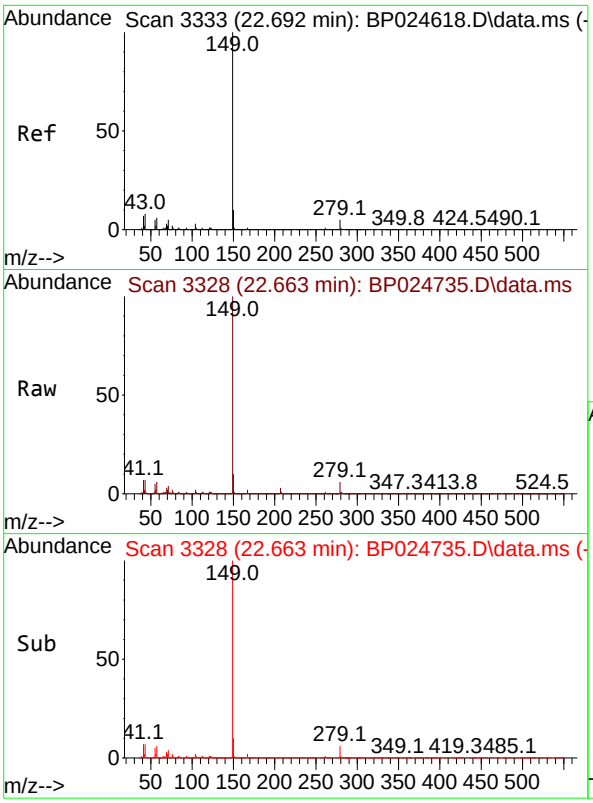


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.963 ng
RT: 21.416 min Scan# 3116
Delta R.T. -0.023 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:149 Resp: 1181419

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.1	33.1
279	6.0	4.6	6.8

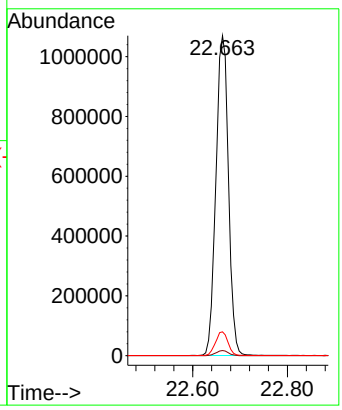




#85
Di-n-octyl phthalate
Concen: 39.572 ng
RT: 22.663 min Scan# 3
Delta R.T. -0.029 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:149 Resp: 196216

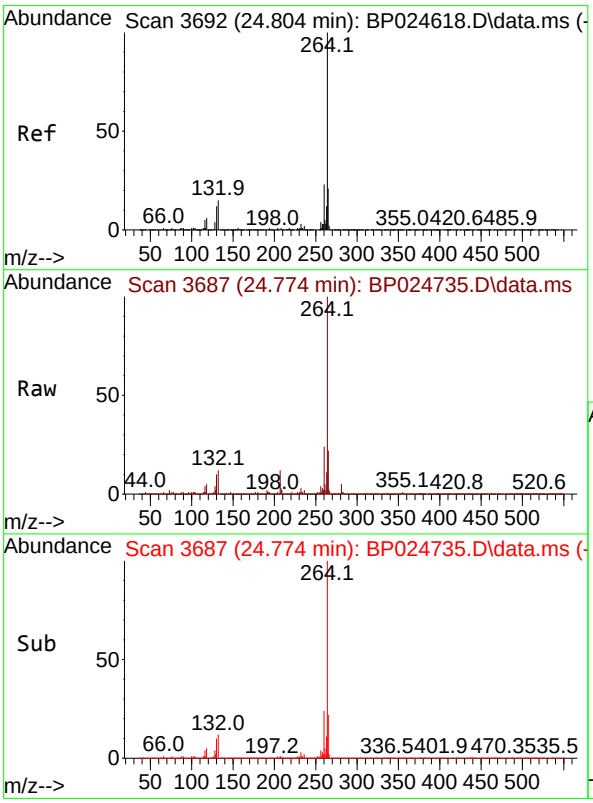
Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.4	6.3	9.5



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

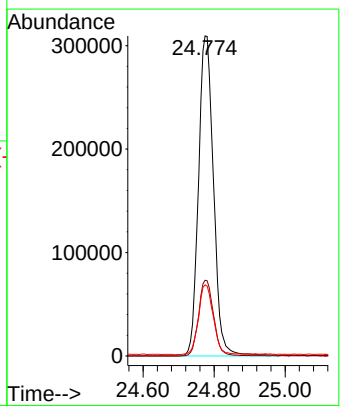
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

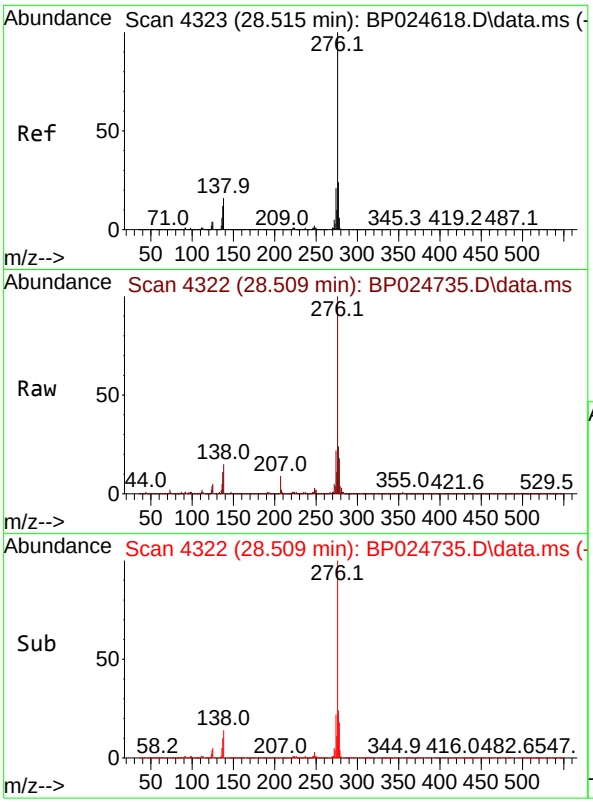


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.774 min Scan# 3687
Delta R.T. -0.029 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:264 Resp: 911806

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.7	28.1
265	22.2	17.0	25.6

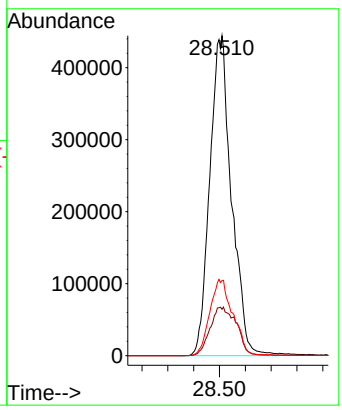




#87
Indeno(1,2,3-cd)pyrene
Concen: 39.091 ng
RT: 28.509 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:276 Resp: 260216

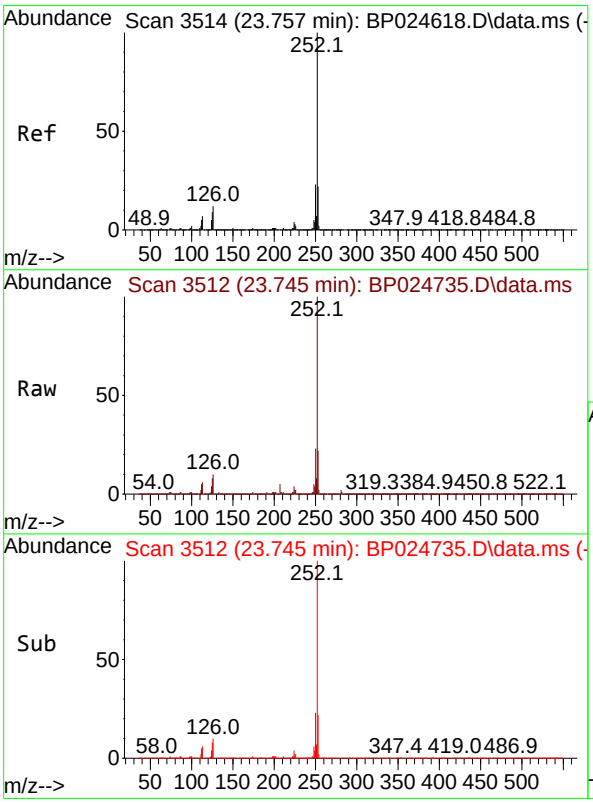
Ion	Ratio	Lower	Upper
276	100		
138	18.4	11.2	16.8#
277	25.4	15.7	23.5#



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations APPROVED

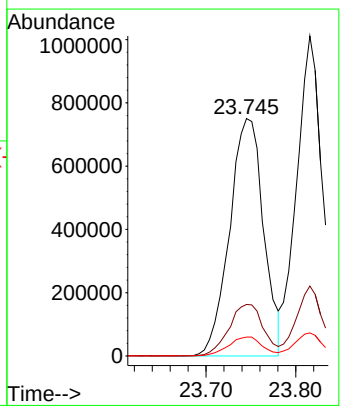
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

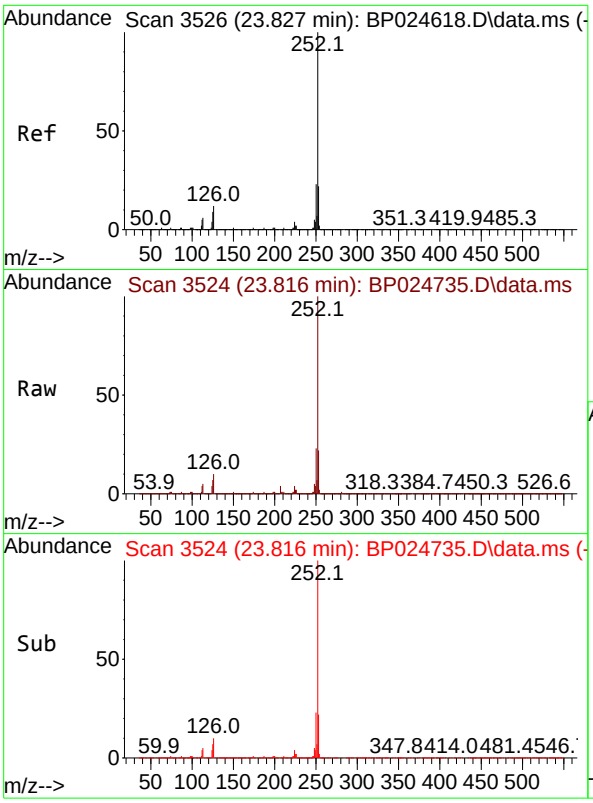


#88
Benzo(b)fluoranthene
Concen: 37.787 ng
RT: 23.745 min Scan# 3512
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:252 Resp: 1972108

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	8.0	7.5	11.3

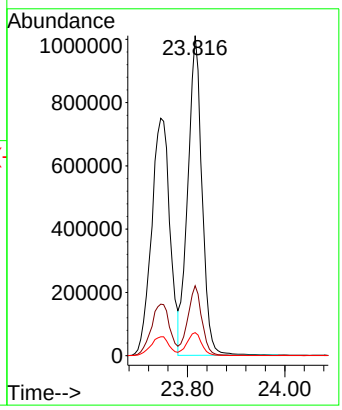




#89
Benzo(k)fluoranthene
Concen: 38.003 ng
RT: 23.816 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:252 Resp: 204374

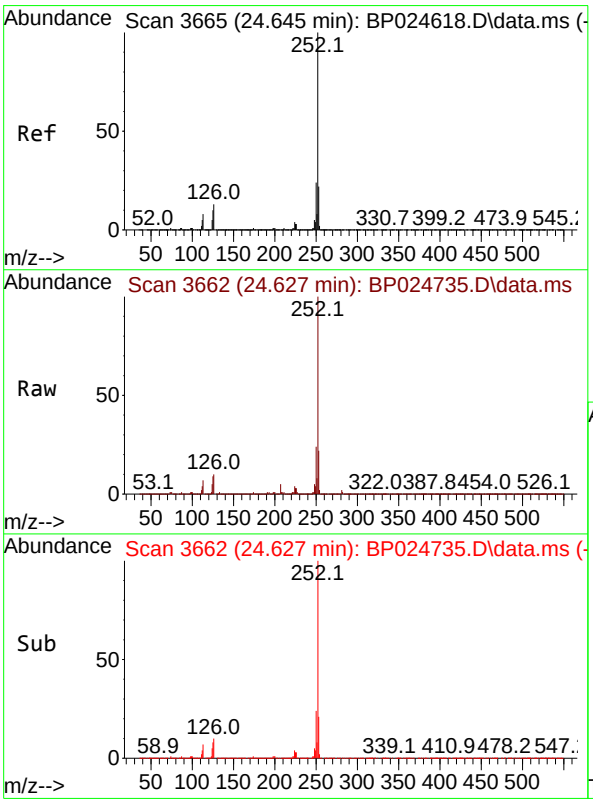
Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	7.2	7.0	10.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

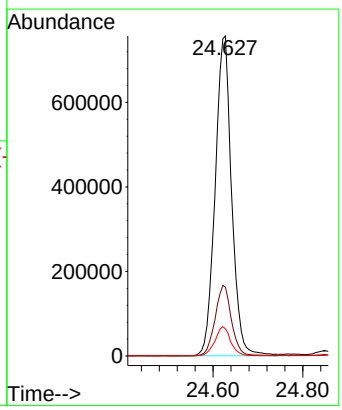
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025

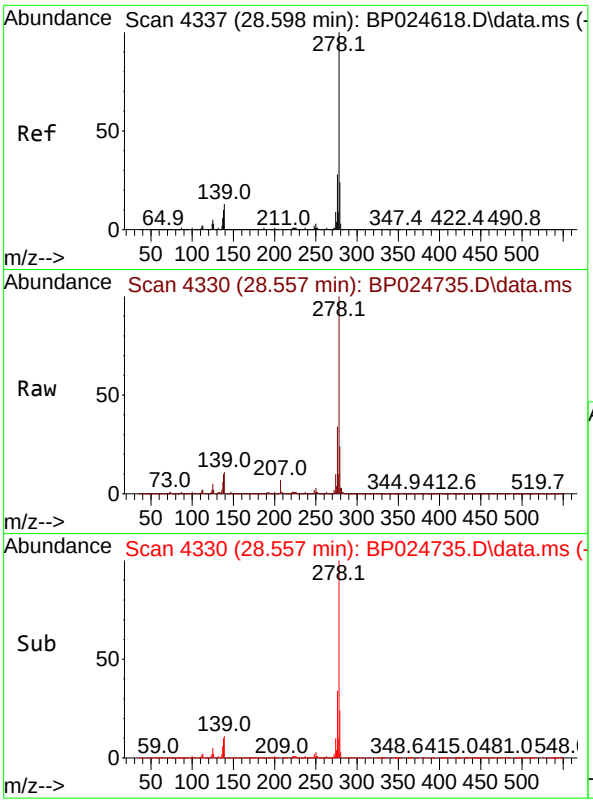


#90
Benzo(a)pyrene
Concen: 38.466 ng
RT: 24.627 min Scan# 3662
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:252 Resp: 1928078

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.7	26.5
125	8.5	8.1	12.1

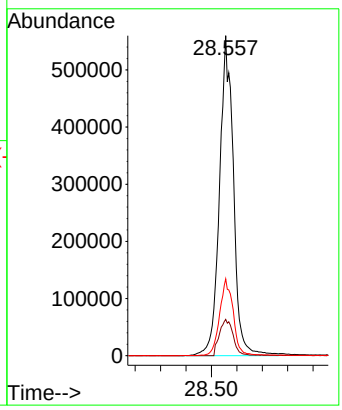




#91
Dibenzo(a,h)anthracene
Concen: 39.353 ng
RT: 28.557 min Scan# 4
Delta R.T. -0.041 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:278 Resp: 213116

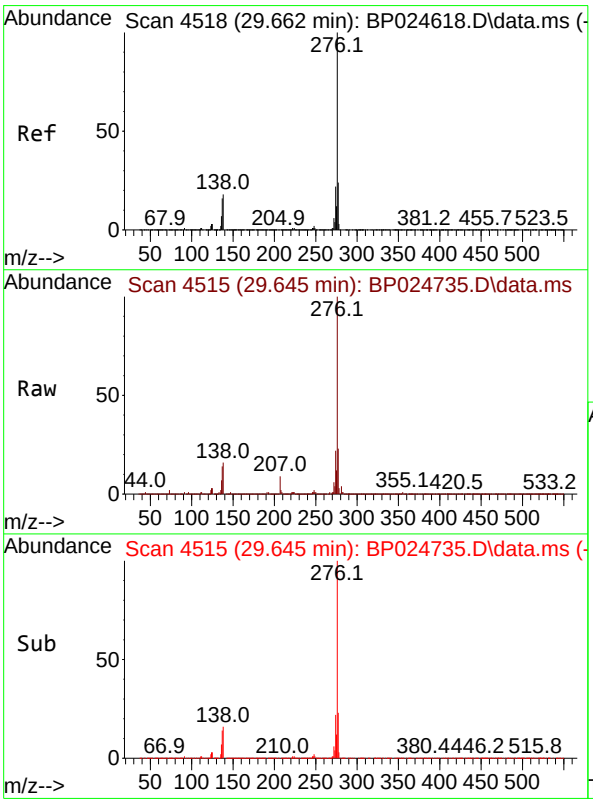
Ion	Ratio	Lower	Upper
278	100		
139	11.3	10.2	15.4
279	24.0	19.0	28.4



Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Manual Integrations
APPROVED

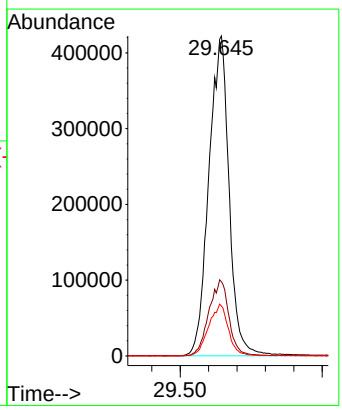
Reviewed By :Rahul Chavli 05/21/2025
Supervised By :Jagrut Upadhyay 05/21/2025



#92
Benzo(g,h,i)perylene
Concen: 38.650 ng
RT: 29.645 min Scan# 4515
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:276 Resp: 2081468

Ion	Ratio	Lower	Upper
276	100		
277	23.2	19.0	28.4
138	15.6	14.4	21.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024735.D
Acq On : 21 May 2025 10:56
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 12:14:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	112	-0.01
2		1,4-Dioxane	0.549	0.455	17.1	101	0.00
3		Pyridine	1.218	1.017	16.5	95	0.00
4		n-Nitrosodimethylamine	0.538	0.497	7.6	108	0.00
5	S	2-Fluorophenol	1.169	1.095	6.3	111	0.00
6		Aniline	1.927	1.647	14.5	96	-0.01
7	S	Phenol-d6	1.492	1.348	9.7	103	0.00
8		2-Chlorophenol	1.327	1.279	3.6	110	0.00
9		Benzaldehyde	0.966	0.825	14.6	97	-0.01
10	C	Phenol	1.540	1.337	13.2	99	0.00
11		bis(2-Chloroethyl)ether	1.266	1.042	17.7	96	-0.01
12		1,3-Dichlorobenzene	1.527	1.435	6.0	112	0.00
13	C	1,4-Dichlorobenzene	1.536	1.451	5.5	111	-0.01
14		1,2-Dichlorobenzene	1.497	1.384	7.5	109	-0.01
15		Benzyl Alcohol	1.134	1.016	10.4	99	0.00
16		2,2'-oxybis(1-Chloropropane	1.516	1.220	19.5	93	-0.02
17		2-Methylphenol	1.105	0.984	11.0	100	0.00
18		Hexachloroethane	0.589	0.530	10.0	108	-0.01
19	P	n-Nitroso-di-n-propylamine	1.032	0.813	21.2	87	0.00
20		3+4-Methylphenols	1.503	1.354	9.9	100	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	102	-0.01
22		Acetophenone	0.500	0.452	9.6	95	0.00
23	S	Nitrobenzene-d5	0.396	0.354	10.6	94	0.00
24		Nitrobenzene	0.348	0.304	12.6	92	0.00
25		Isophorone	0.687	0.574	16.4	87	-0.01
26	C	2-Nitrophenol	0.171	0.176	-2.9	104	-0.01
27		2,4-Dimethylphenol	0.301	0.287	4.7	98	-0.01
28		bis(2-Chloroethoxy)methane	0.410	0.348	15.1	89	-0.01
29	C	2,4-Dichlorophenol	0.292	0.296	-1.4	103	0.00
30		1,2,4-Trichlorobenzene	0.329	0.329	0.0	109	-0.01
31		Naphthalene	1.036	0.975	5.9	101	0.00
32		Benzoic acid	0.181	0.084	53.6#	45#	-0.02
33		4-Chloroaniline	0.418	0.404	3.3	98	0.00
34	C	Hexachlorobutadiene	0.213	0.223	-4.7	115	-0.01
35		Caprolactam	0.106	0.093	12.3	87	0.00
36	C	4-Chloro-3-methylphenol	0.356	0.328	7.9	94	0.00
37		2-Methylnaphthalene	0.671	0.626	6.7	99	-0.01
38		1-Methylnaphthalene	0.718	0.666	7.2	98	-0.01
39	I	Acenaphthene-d10	1.000	1.000	0.0	97	-0.02
40		1,2,4,5-Tetrachlorobenzene	0.581	0.602	-3.6	106	-0.01
41	P	Hexachlorocyclopentadiene	0.352	0.284	19.3	77	-0.01
42	S	2,4,6-Tribromophenol	0.339	0.374	-10.3	112	-0.01
43	C	2,4,6-Trichlorophenol	0.376	0.397	-5.6	103	0.00
44		2,4,5-Trichlorophenol	0.419	0.432	-3.1	103	0.00
45	S	2-Fluorobiphenyl	1.527	1.508	1.2	102	-0.01
46		1,1'-Biphenyl	1.478	1.422	3.8	99	-0.01
47		2-Chloronaphthalene	1.127	1.087	3.5	99	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024735.D
Acq On : 21 May 2025 10:56
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 12:14:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	0.334	0.299	10.5	86	-0.01
49		Acenaphthylene	1.886	1.779	5.7	95	-0.01
50		Dimethylphthalate	1.524	1.396	8.4	93	-0.01
51		2,6-Dinitrotoluene	0.322	0.303	5.9	94	-0.02
52	C	Acenaphthene	1.084	1.033	4.7	97	-0.02
53		3-Nitroaniline	0.329	0.311	5.5	88	-0.01
54	P	2,4-Dinitrophenol	0.169	0.022#	87.0#	13#	0.01
55		Dibenzofuran	1.730	1.635	5.5	97	-0.01
56	P	4-Nitrophenol	0.250	0.202	19.2	76	0.02
57		2,4-Dinitrotoluene	0.454	0.433	4.6	92	-0.02
58		Fluorene	1.410	1.333	5.5	96	-0.01
59		2,3,4,6-Tetrachlorophenol	0.388	0.391	-0.8	100	-0.01
60		Diethylphthalate	1.541	1.404	8.9	94	-0.02
61		4-Chlorophenyl-phenylether	0.703	0.677	3.7	100	-0.02
62		4-Nitroaniline	0.317	0.314	0.9	92	-0.01
63		Azobenzene	1.318	1.072	18.7	83	-0.01
64	I	Phenanthrene-d10	1.000	1.000	0.0	93	-0.03
65		4,6-Dinitro-2-methylphenol	0.129	0.040	69.0#	29#	-0.01
66	c	n-Nitrosodiphenylamine	0.614	0.588	4.2	92	-0.02
67		4-Bromophenyl-phenylether	0.236	0.248	-5.1	103	-0.01
68		Hexachlorobenzene	0.299	0.321	-7.4	106	-0.01
69		Atrazine	0.225	0.227	-0.9	97	-0.02
70	C	Pentachlorophenol	0.168	0.136	19.0	73	-0.01
71		Phenanthrene	1.112	1.064	4.3	94	-0.02
72		Anthracene	1.119	1.078	3.7	94	-0.02
73		Carbazole	1.012	0.990	2.2	92	-0.02
74		Di-n-butylphthalate	1.302	1.261	3.1	93	-0.02
75	C	Fluoranthene	1.300	1.271	2.2	95	-0.02
76	I	Chrysene-d12	1.000	1.000	0.0	96	-0.02
77		Benzidine	0.545	0.568	-4.2	97	-0.01
78		Pyrene	1.198	1.128	5.8	93	-0.02
79	S	Terphenyl-d14	1.166	1.159	0.6	98	-0.01
80		Butylbenzylphthalate	0.533	0.498	6.6	90	0.00
81		Benzo(a)anthracene	1.256	1.189	5.3	94	-0.02
82		3,3'-Dichlorobenzidine	0.466	0.485	-4.1	97	-0.02
83		Chrysene	1.190	1.115	6.3	94	-0.02
84		Bis(2-ethylhexyl)phthalate	0.783	0.763	2.6	95	-0.02
85	c	Di-n-octyl phthalate	1.281	1.267	1.1	95	-0.03
86	I	Perylene-d12	1.000	1.000	0.0	98	-0.03
87		Indeno(1,2,3-cd)pyrene	1.460	1.427	2.3	98	0.00
88		Benzo(b)fluoranthene	1.145	1.081	5.6	96	-0.01
89		Benzo(k)fluoranthene	1.180	1.121	5.0	96	-0.01
90	C	Benzo(a)pyrene	1.099	1.057	3.8	97	-0.02
91		Dibenzo(a,h)anthracene	1.188	1.169	1.6	98	-0.04
92		Benzo(g,h,i)perylene	1.181	1.141	3.4	98	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024735.D
Acq On : 21 May 2025 10:56
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 12:14:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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 = 1 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024735.D
Acq On : 21 May 2025 10:56
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 12:14:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	112	-0.01
2		1,4-Dioxane	40.000	33.150	17.1	101	0.00
3		Pyridine	40.000	33.400	16.5	95	0.00
4		n-Nitrosodimethylamine	40.000	37.005	7.5	108	0.00
5	S	2-Fluorophenol	80.000	74.897	6.4	111	0.00
6		Aniline	40.000	34.185	14.5	96	-0.01
7	S	Phenol-d6	80.000	72.249	9.7	103	0.00
8		2-Chlorophenol	40.000	38.546	3.6	110	0.00
9		Benzaldehyde	40.000	34.170	14.6	97	-0.01
10	C	Phenol	40.000	34.719	13.2	99	0.00
11		bis(2-Chloroethyl)ether	40.000	32.916	17.7	96	-0.01
12		1,3-Dichlorobenzene	40.000	37.594	6.0	112	0.00
13	C	1,4-Dichlorobenzene	40.000	37.775	5.6	111	-0.01
14		1,2-Dichlorobenzene	40.000	36.981	7.5	109	-0.01
15		Benzyl Alcohol	40.000	35.822	10.4	99	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	32.192	19.5	93	-0.02
17		2-Methylphenol	40.000	35.626	10.9	100	0.00
18		Hexachloroethane	40.000	35.988	10.0	108	-0.01
19	P	n-Nitroso-di-n-propylamine	40.000	31.502	21.2	87	0.00
20		3+4-Methylphenols	40.000	36.045	9.9	100	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	102	-0.01
22		Acetophenone	40.000	36.178	9.6	95	0.00
23	S	Nitrobenzene-d5	80.000	71.600	10.5	94	0.00
24		Nitrobenzene	40.000	34.890	12.8	92	0.00
25		Isophorone	40.000	33.451	16.4	87	-0.01
26	C	2-Nitrophenol	40.000	41.274	-3.2	104	-0.01
27		2,4-Dimethylphenol	40.000	38.142	4.6	98	-0.01
28		bis(2-Chloroethoxy)methane	40.000	33.966	15.1	89	-0.01
29	C	2,4-Dichlorophenol	40.000	40.632	-1.6	103	0.00
30		1,2,4-Trichlorobenzene	40.000	40.056	-0.1	109	-0.01
31		Naphthalene	40.000	37.615	6.0	101	0.00
32		Benzoic acid	40.000	20.997	47.5#	45	-0.02
33		4-Chloroaniline	40.000	38.602	3.5	98	0.00
34	C	Hexachlorobutadiene	40.000	41.898	-4.7	115	-0.01
35		Caprolactam	40.000	35.270	11.8	87	0.00
36	C	4-Chloro-3-methylphenol	40.000	36.928	7.7	94	0.00
37		2-Methylnaphthalene	40.000	37.315	6.7	99	-0.01
38		1-Methylnaphthalene	40.000	37.092	7.3	98	-0.01
39	I	Acenaphthene-d10	20.000	20.000	0.0	97	-0.02
40		1,2,4,5-Tetrachlorobenzene	40.000	41.450	-3.6	106	-0.01
41	P	Hexachlorocyclopentadiene	40.000	32.301	19.2	77	-0.01
42	S	2,4,6-Tribromophenol	80.000	88.157	-10.2	112	-0.01
43	C	2,4,6-Trichlorophenol	40.000	42.185	-5.5	103	0.00
44		2,4,5-Trichlorophenol	40.000	41.236	-3.1	103	0.00
45	S	2-Fluorobiphenyl	80.000	79.041	1.2	102	-0.01
46		1,1'-Biphenyl	40.000	38.476	3.8	99	-0.01
47		2-Chloronaphthalene	40.000	38.593	3.5	99	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024735.D
Acq On : 21 May 2025 10:56
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 12:14:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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	35.867	10.3	86	-0.01
49		Acenaphthylene	40.000	37.738	5.7	95	-0.01
50		Dimethylphthalate	40.000	36.630	8.4	93	-0.01
51		2,6-Dinitrotoluene	40.000	37.707	5.7	94	-0.02
52	C	Acenaphthene	40.000	38.090	4.8	97	-0.02
53		3-Nitroaniline	40.000	37.805	5.5	88	-0.01
54	P	2,4-Dinitrophenol	40.000	10.460	73.8#	13	0.01
55		Dibenzofuran	40.000	37.811	5.5	97	-0.01
56	P	4-Nitrophenol	40.000	31.121	22.2	76	0.02
57		2,4-Dinitrotoluene	40.000	38.189	4.5	92	-0.02
58		Fluorene	40.000	37.799	5.5	96	-0.01
59		2,3,4,6-Tetrachlorophenol	40.000	40.312	-0.8	100	-0.01
60		Diethylphthalate	40.000	36.452	8.9	94	-0.02
61		4-Chlorophenyl-phenylether	40.000	38.510	3.7	100	-0.02
62		4-Nitroaniline	40.000	39.618	1.0	92	-0.01
63		Azobenzene	40.000	32.520	18.7	83	-0.01
64	I	Phenanthrene-d10	20.000	20.000	0.0	93	-0.03
65		4,6-Dinitro-2-methylphenol	40.000	12.362	69.1#	29	-0.01
66	c	n-Nitrosodiphenylamine	40.000	38.283	4.3	92	-0.02
67		4-Bromophenyl-phenylether	40.000	42.104	-5.3	103	-0.01
68		Hexachlorobenzene	40.000	42.889	-7.2	106	-0.01
69		Atrazine	40.000	40.341	-0.9	97	-0.02
70	C	Pentachlorophenol	40.000	32.244	19.4	73	-0.01
71		Phenanthrene	40.000	38.270	4.3	94	-0.02
72		Anthracene	40.000	38.551	3.6	94	-0.02
73		Carbazole	40.000	39.114	2.2	92	-0.02
74		Di-n-butylphthalate	40.000	38.735	3.2	93	-0.02
75	C	Fluoranthene	40.000	39.125	2.2	95	-0.02
76	I	Chrysene-d12	20.000	20.000	0.0	96	-0.02
77		Benzidine	40.000	41.738	-4.3	97	-0.01
78		Pyrene	40.000	37.644	5.9	93	-0.02
79	S	Terphenyl-d14	80.000	79.516	0.6	98	-0.01
80		Butylbenzylphthalate	40.000	37.363	6.6	90	0.00
81		Benzo(a)anthracene	40.000	37.885	5.3	94	-0.02
82		3,3'-Dichlorobenzidine	40.000	41.632	-4.1	97	-0.02
83		Chrysene	40.000	37.454	6.4	94	-0.02
84		Bis(2-ethylhexyl)phthalate	40.000	38.963	2.6	95	-0.02
85	c	Di-n-octyl phthalate	40.000	39.572	1.1	95	-0.03
86	I	Perylene-d12	20.000	20.000	0.0	98	-0.03
87		Indeno(1,2,3-cd)pyrene	40.000	39.091	2.3	98	0.00
88		Benzo(b)fluoranthene	40.000	37.787	5.5	96	-0.01
89		Benzo(k)fluoranthene	40.000	38.003	5.0	96	-0.01
90	C	Benzo(a)pyrene	40.000	38.466	3.8	97	-0.02
91		Dibenzo(a,h)anthracene	40.000	39.353	1.6	98	-0.04
92		Benzo(g,h,i)perylene	40.000	38.650	3.4	98	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024735.D
Acq On : 21 May 2025 10:56
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_P
LabSampleId :
SSTDCCC040

Quant Time: May 21 12:14:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 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

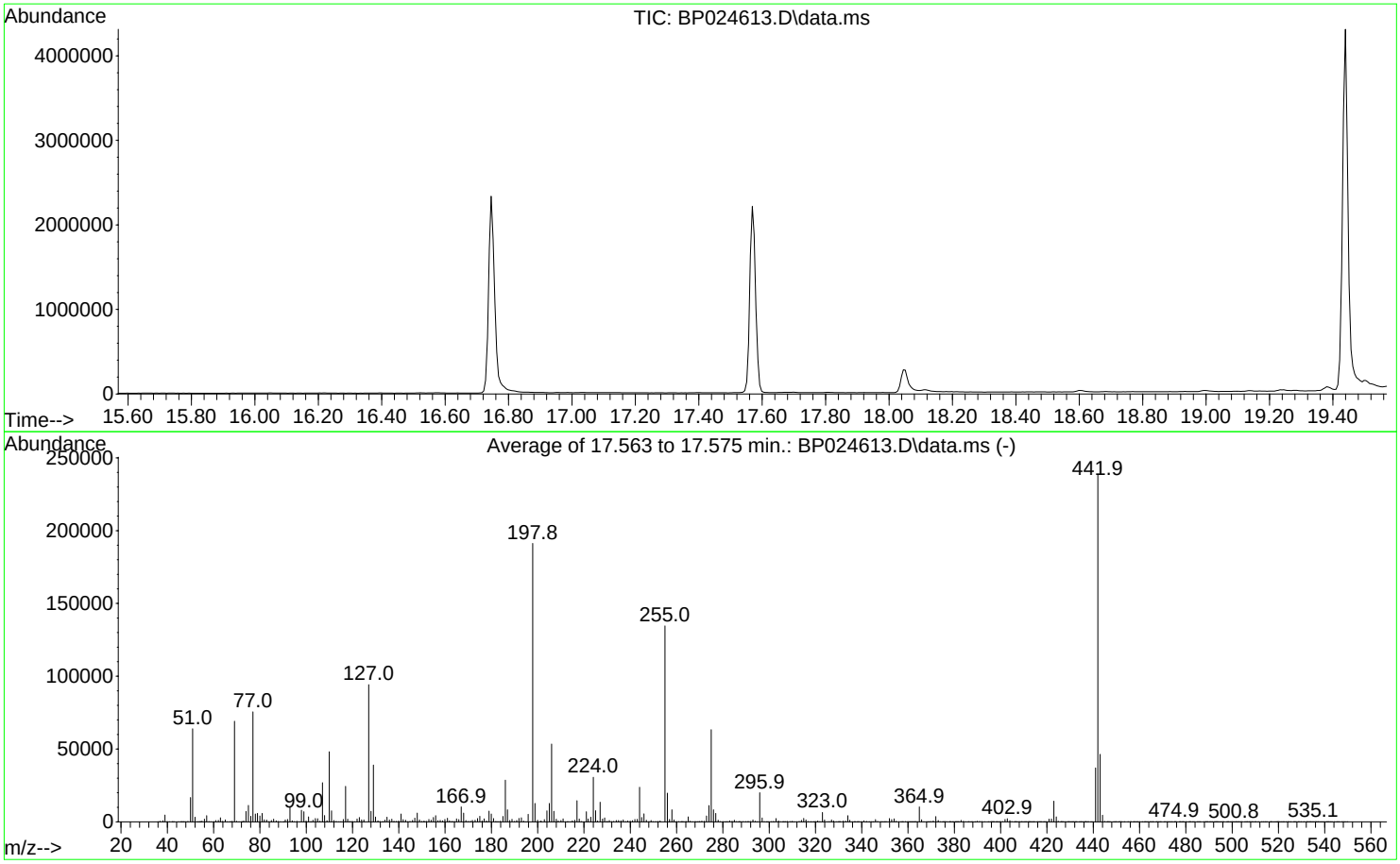
QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024613.D
Acq On : 13 May 2025 10:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 13 16:21:39 2025



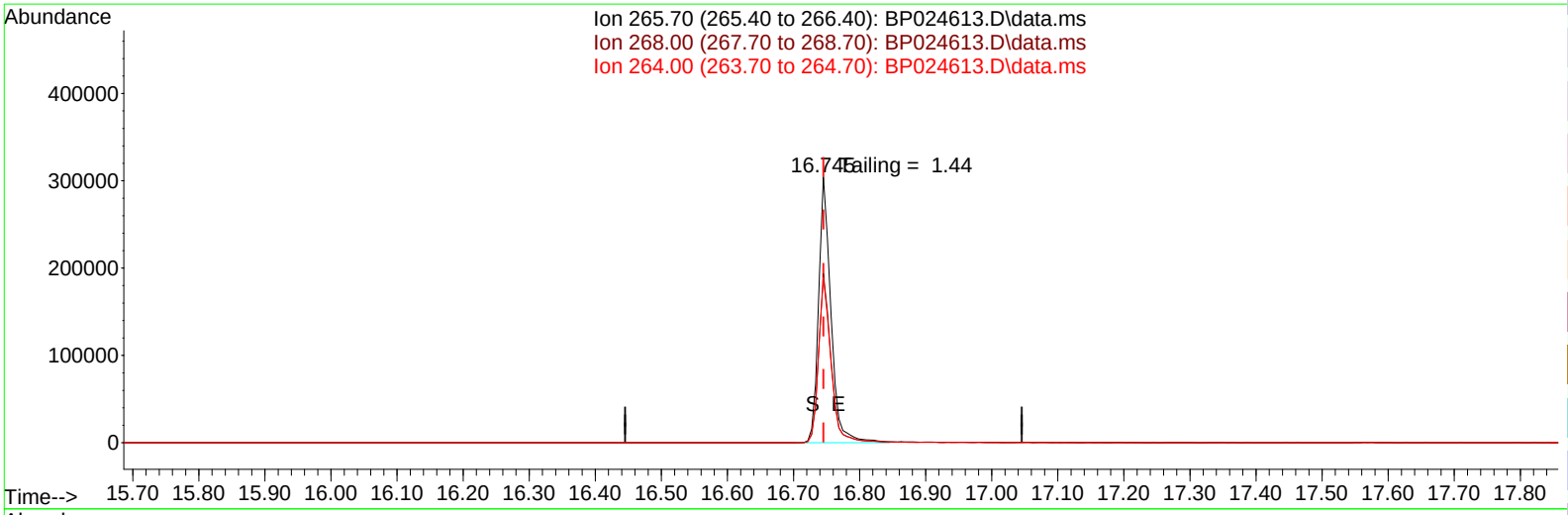
AutoFind: Scans 2461, 2462, 2463; Background Corrected with Scan 2449

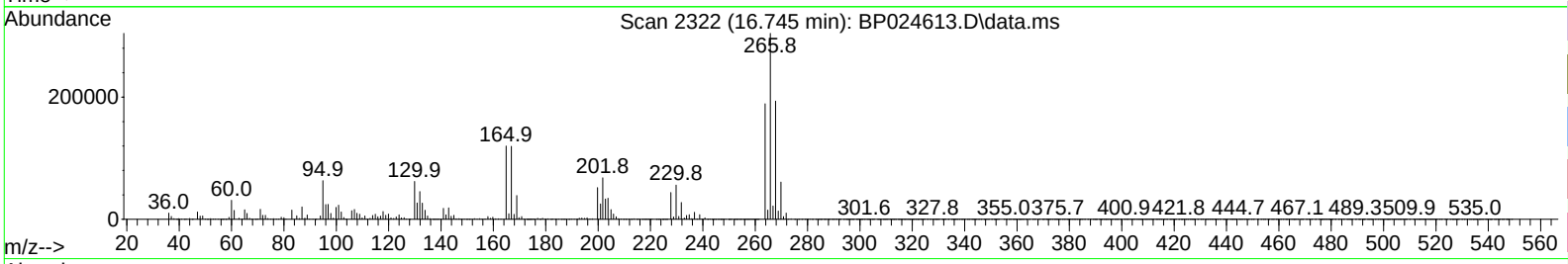
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	33.5	63968	PASS
68	69	0.00	2	0.6	438	PASS
69	198	0.00	100	36.2	69152	PASS
70	69	0.00	2	0.6	419	PASS
127	198	10	80	49.3	94192	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	191223	PASS
199	198	5	9	6.6	12661	PASS
275	198	10	60	33.1	63293	PASS
365	198	1	100	5.4	10286	PASS
441	198	0.01	100	19.4	37080	PASS
442	442	100	100	100.0	238569	PASS
443	442	15	24	19.4	46397	PASS

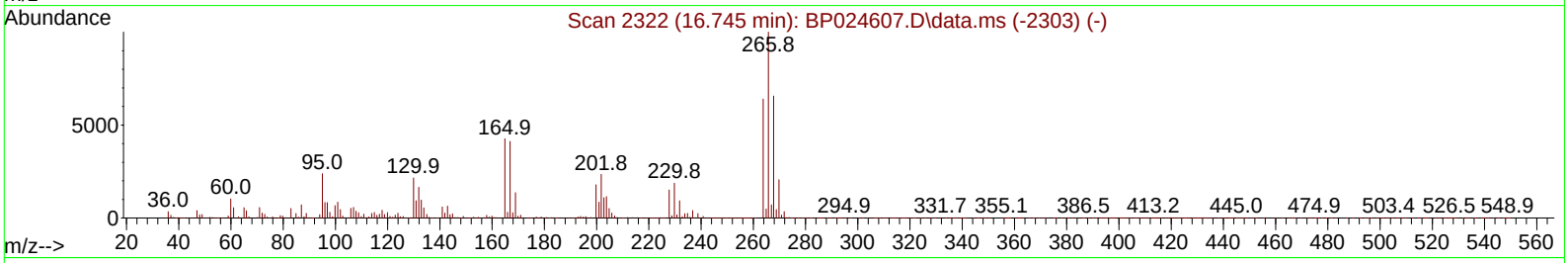
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024613.D
Acq On : 13 May 2025 10:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: May 13 12:28:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 12:28:24 2025
Response via : Initial Calibration







TIC: BP024613.D\data.ms

(70) Pentachlorophenol (C)

16.745min (-0.000) 42670.46 ng

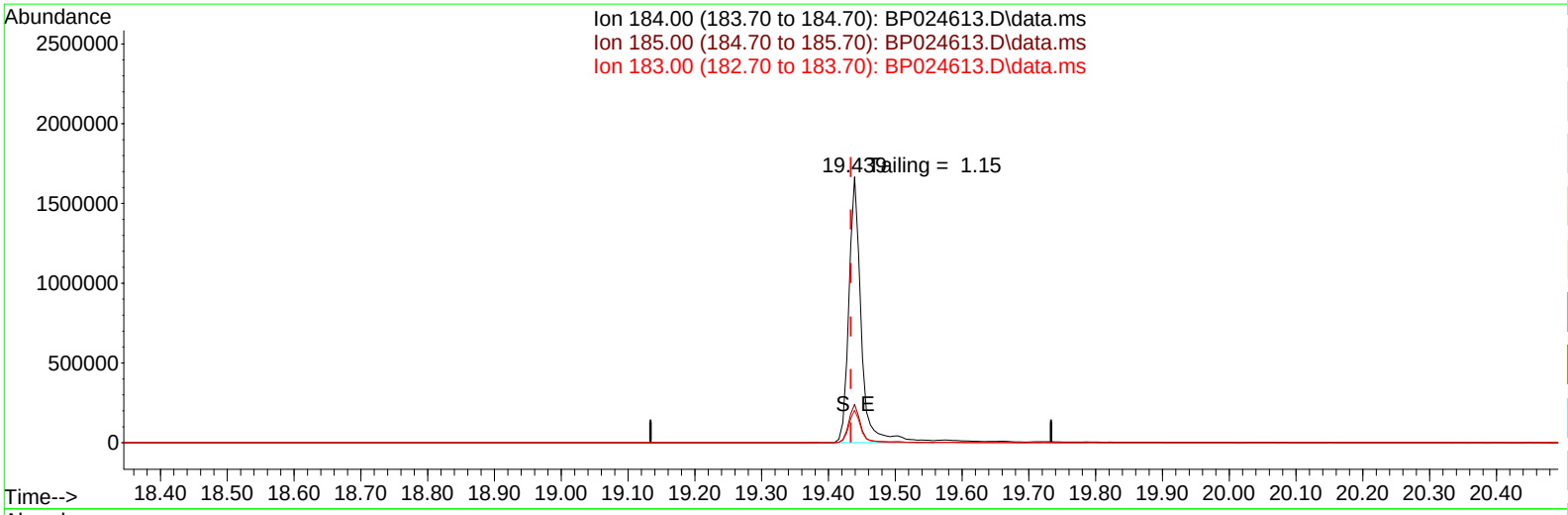
response 398426

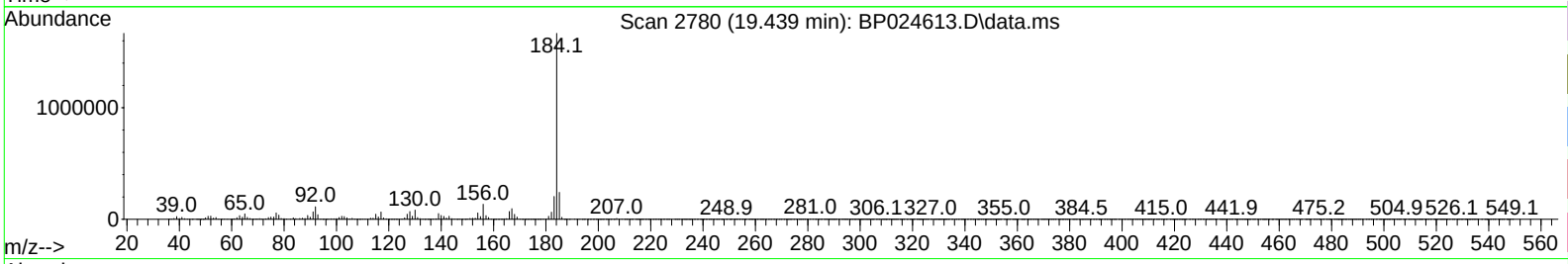
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	65.60	63.59
264.00	64.00	62.12
0.00	0.00	0.00

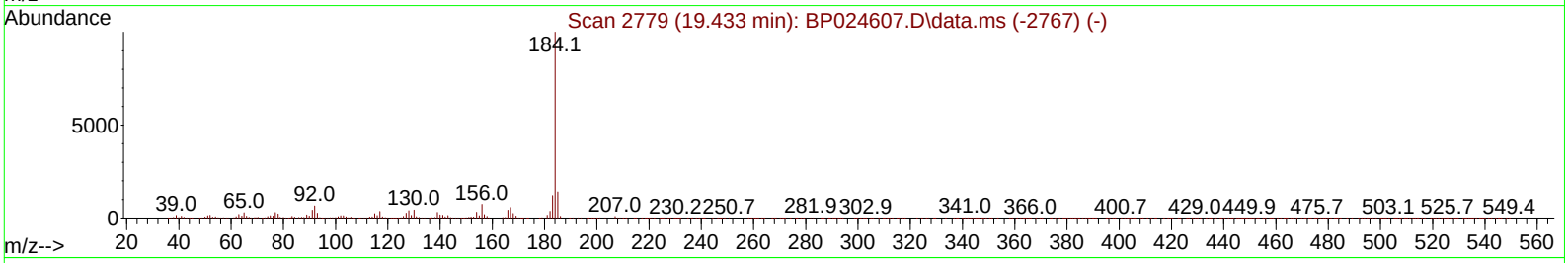
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024613.D
Acq On : 13 May 2025 10:00
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: May 13 12:28:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 12:28:24 2025
Response via : Initial Calibration







TIC: BP024613.D\data.ms

(77) Benzidine

19.439min (+ 0.006) 5637.89 ng

response 2074486

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	14.46
183.00	12.10	12.23
0.00	0.00	0.00

Instrument :
BNA_P
ClientSampleId :
DFTPP

DDT Breakdown

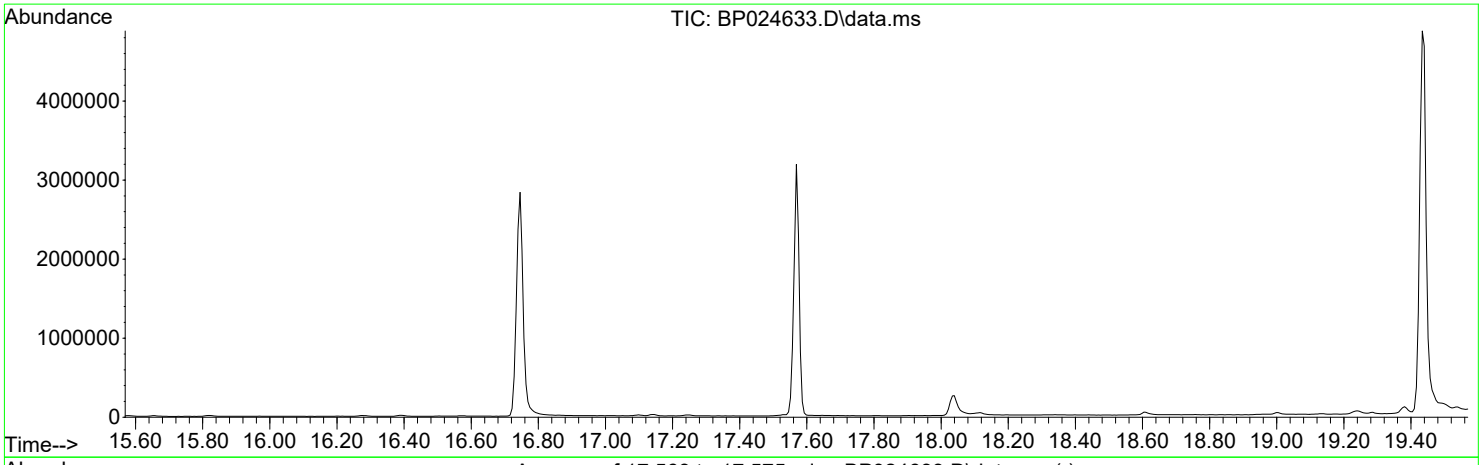
Date	Instrument Name	DFTPP Data File
5/13/2025	BNA_P	BP024613.D
Compound Name	**Response**	**Retention Time**
DDT	750509	20.716
DDD	13774	20.269
DDE	1248	19.733
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
15022	765531	1.96

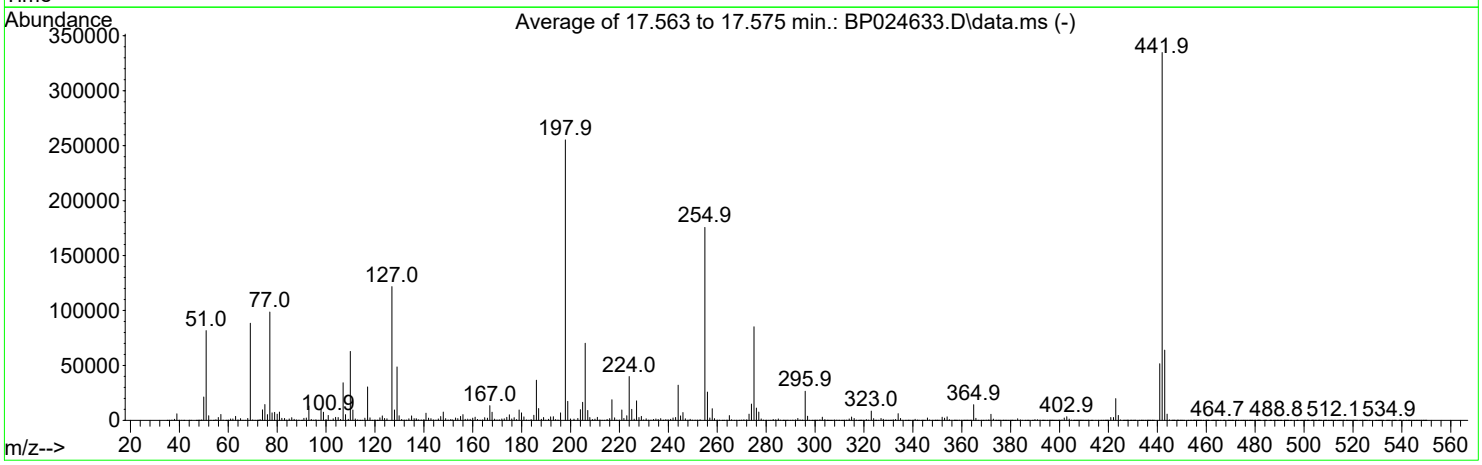
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024633.D
Acq On : 15 May 2025 11:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 13 16:21:39 2025





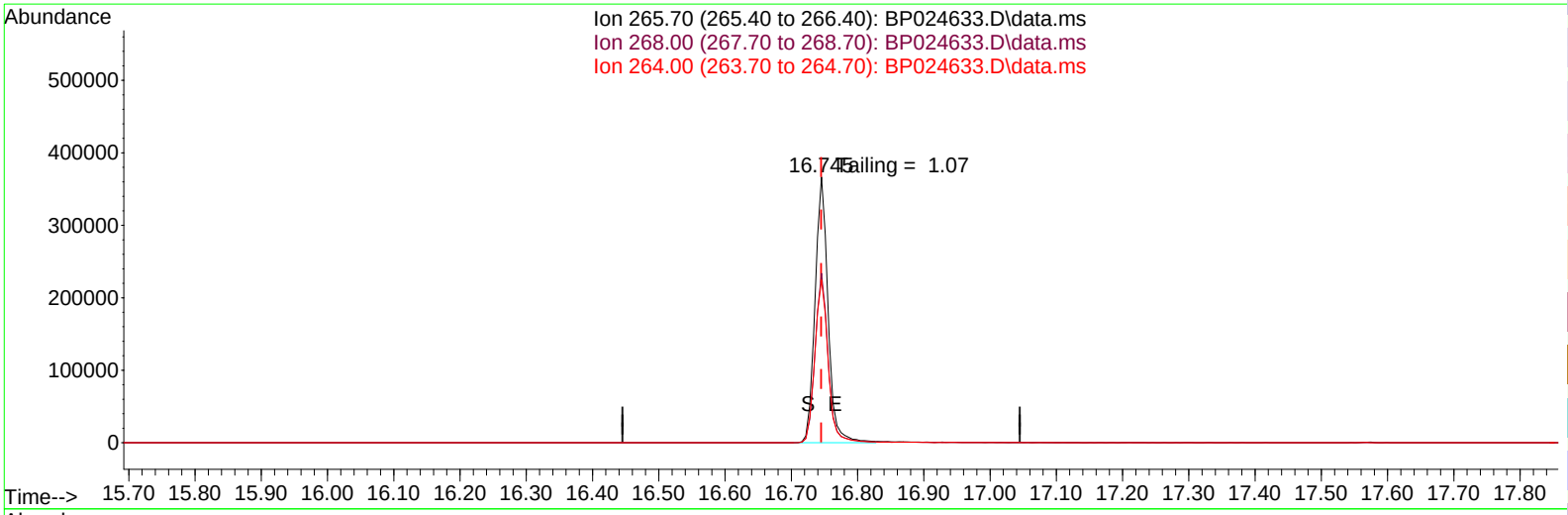
AutoFind: Scans 2461, 2462, 2463; Background Corrected with Scan 2450

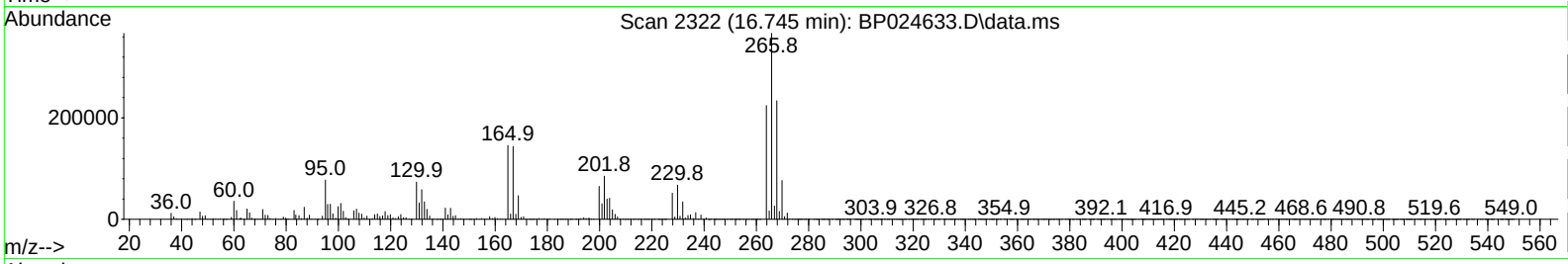
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	32.0	81645	PASS
68	69	0.00	2	1.9	1680	PASS
69	198	0.00	100	34.7	88475	PASS
70	69	0.00	2	0.5	470	PASS
127	198	10	80	47.7	121754	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	255334	PASS
199	198	5	9	6.8	17403	PASS
275	198	10	60	33.3	85133	PASS
365	198	1	100	5.6	14303	PASS
441	198	0.01	100	20.2	51620	PASS
442	442	100	100	100.0	334783	PASS
443	442	15	24	19.1	63921	PASS

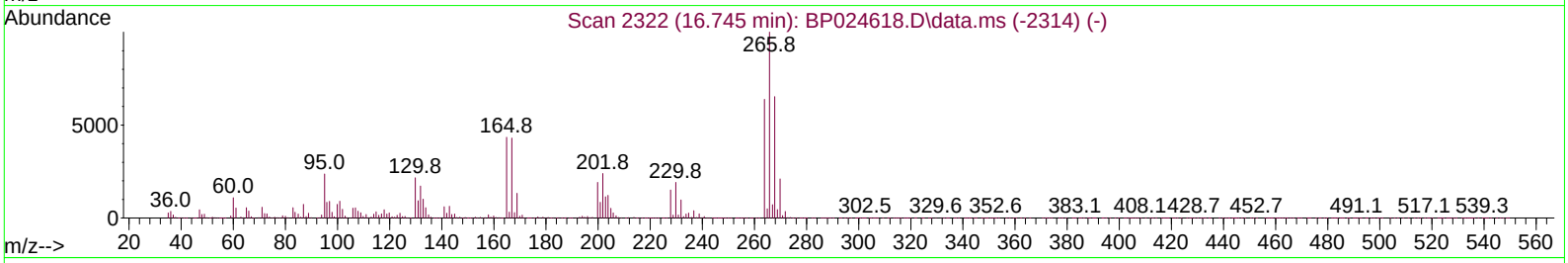
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024633.D
Acq On : 15 May 2025 11:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: May 15 13:40:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration







TIC: BP024633.D\data.ms

(70) Pentachlorophenol (C)

16.745min (+ 0.000) 9498.09 ng

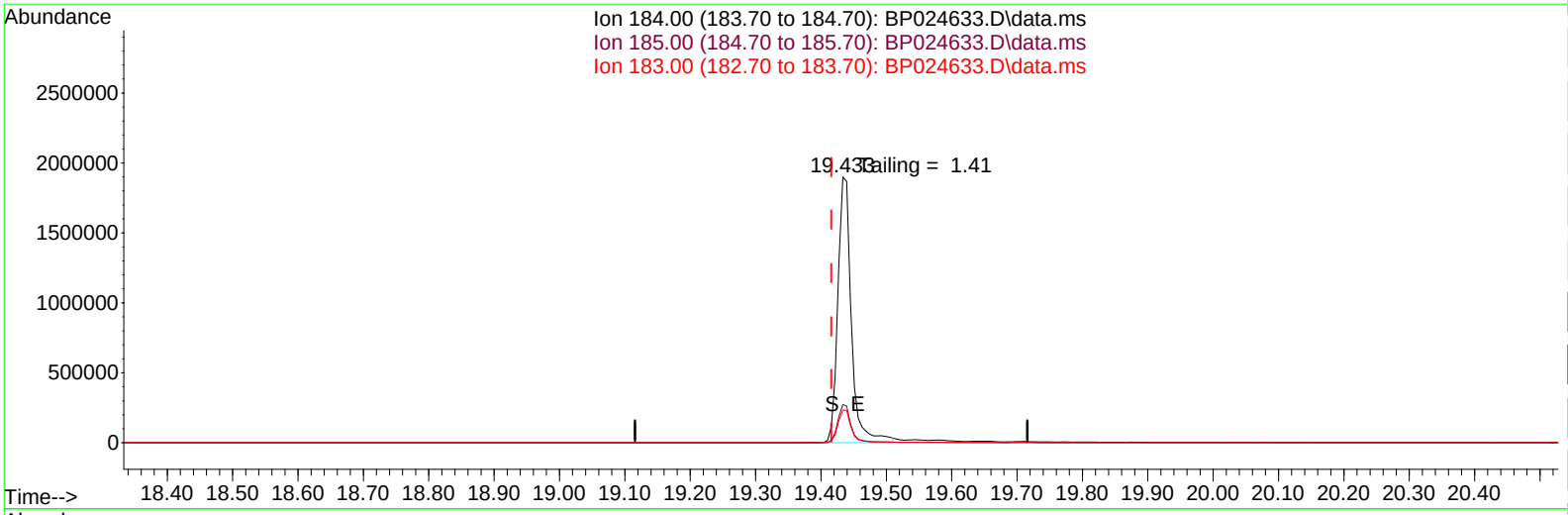
response 503182

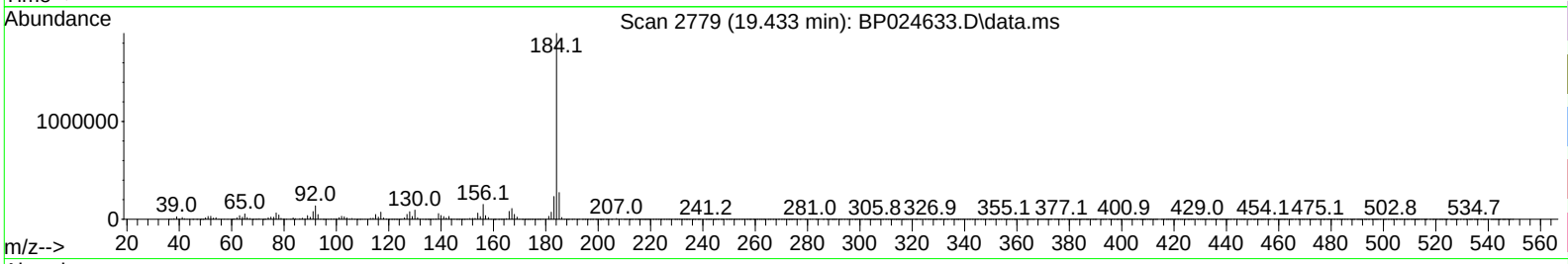
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	65.30	63.72
264.00	63.90	61.21
0.00	0.00	0.00

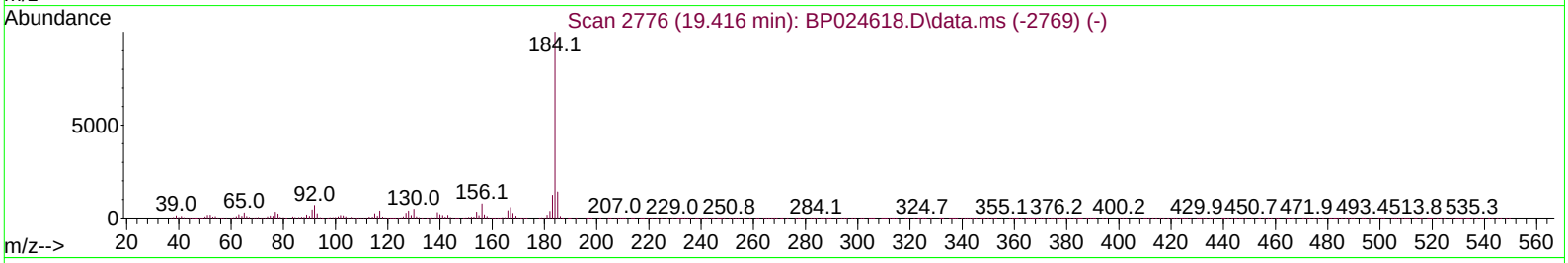
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024633.D
Acq On : 15 May 2025 11:44
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: May 15 13:40:27 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration







TIC: BP024633.D\data.ms

(77) Benzidine

19.433min (+ 0.017) 2596.29 ng

response 2759335

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.00	14.40
183.00	12.30	12.29
0.00	0.00	0.00

Instrument :
BNA_P
ClientSampleId :
DFTPP

DDT Breakdown

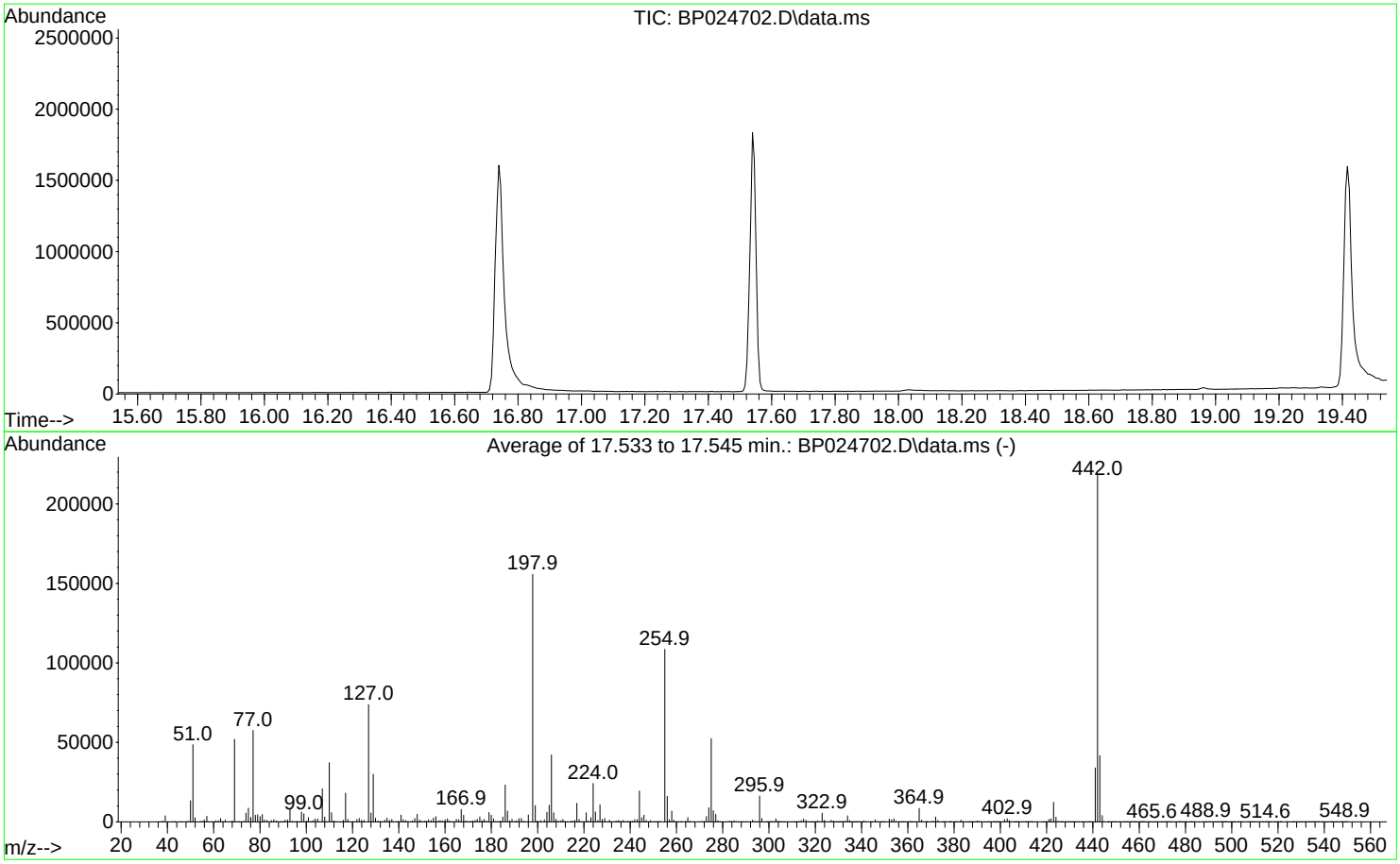
Date	Instrument Name	DFTPP Data File
5/15/2025	BNA_P	BP024633.D
Compound Name	**Response**	**Retention Time**
DDT	908054	20.728
DDD	22084	20.275
DDE	1154	19.822
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
23238	931292	2.50

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024702.D
Acq On : 20 May 2025 10:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 13 16:21:39 2025



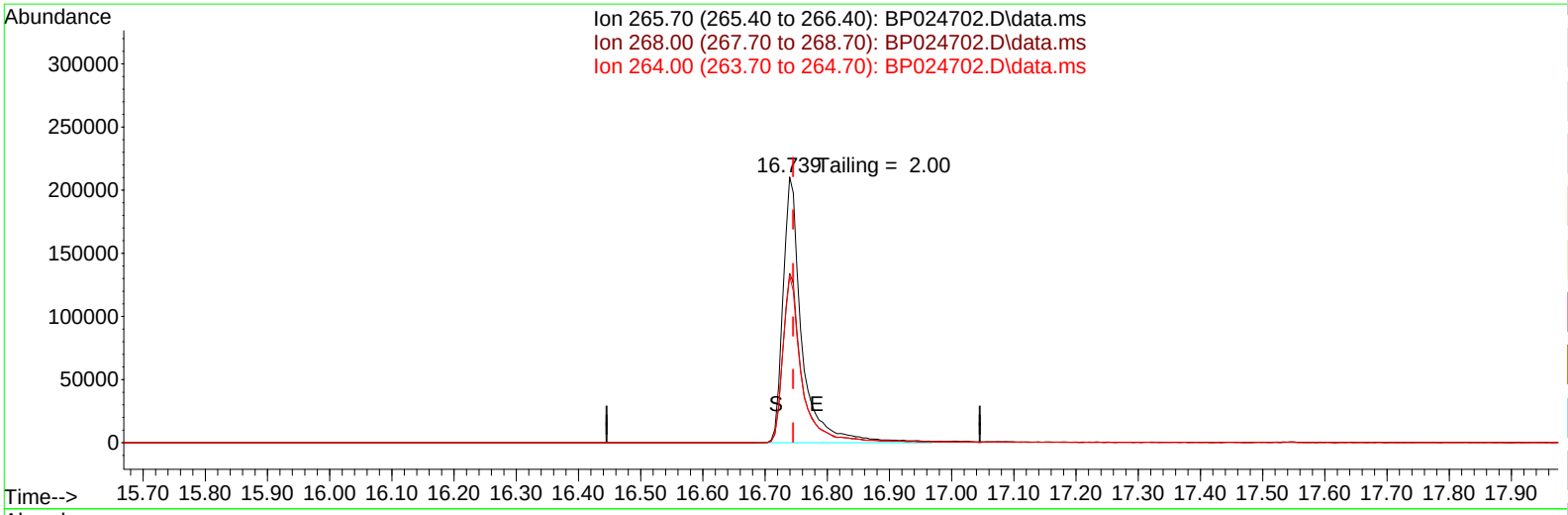
AutoFind: Scans 2456, 2457, 2458; Background Corrected with Scan 2447

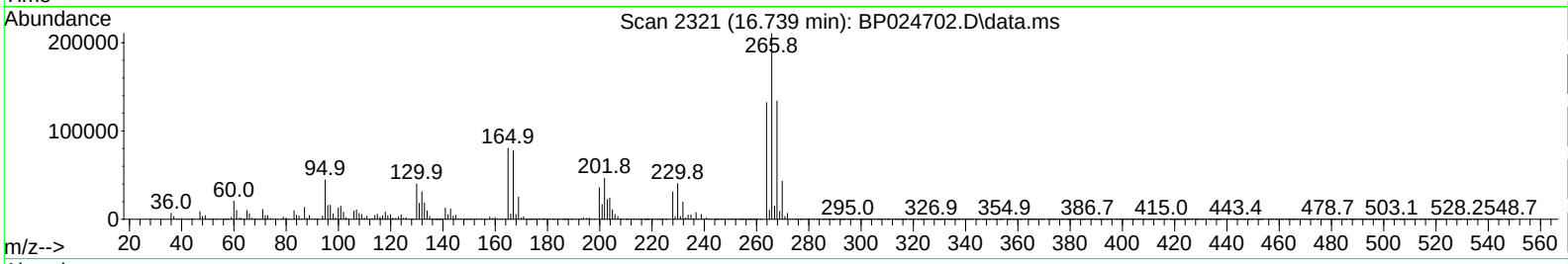
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	31.2	48558	PASS
68	69	0.00	2	1.3	692	PASS
69	198	0.00	100	33.3	51898	PASS
70	69	0.00	2	0.6	286	PASS
127	198	10	80	47.4	73724	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	155659	PASS
199	198	5	9	6.6	10281	PASS
275	198	10	60	33.6	52370	PASS
365	198	1	100	5.4	8455	PASS
441	198	0.01	100	21.8	33949	PASS
442	442	100	100	100.0	218491	PASS
443	442	15	24	19.0	41616	PASS

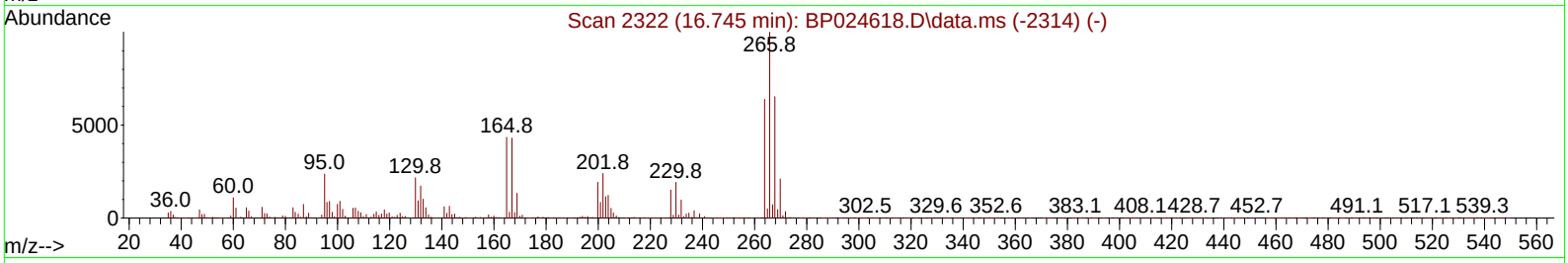
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024702.D
Acq On : 20 May 2025 10:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: May 20 12:58:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration







TIC: BP024702.D\data.ms

(70) Pentachlorophenol (C)

16.739min (-0.006) 1977139.32 ng

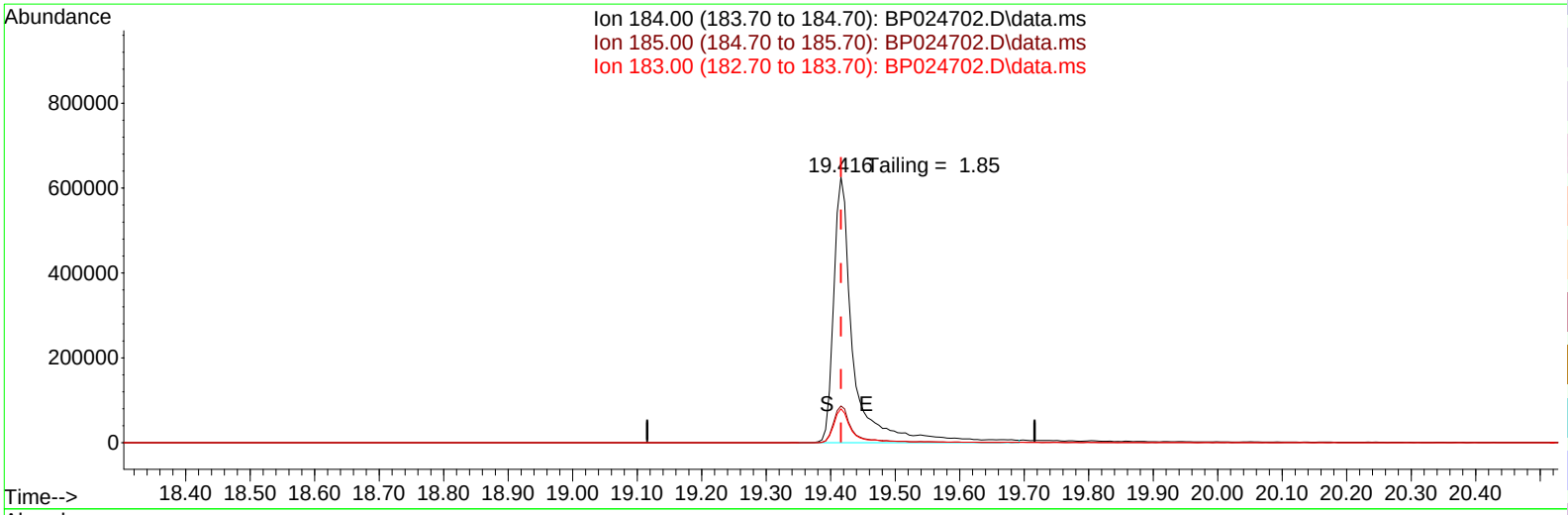
response 448686

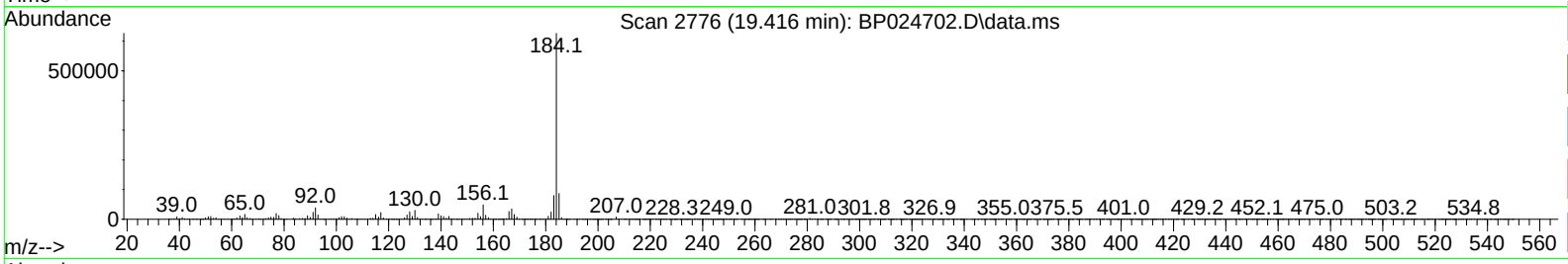
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	65.30	63.67
264.00	63.90	62.85
0.00	0.00	0.00

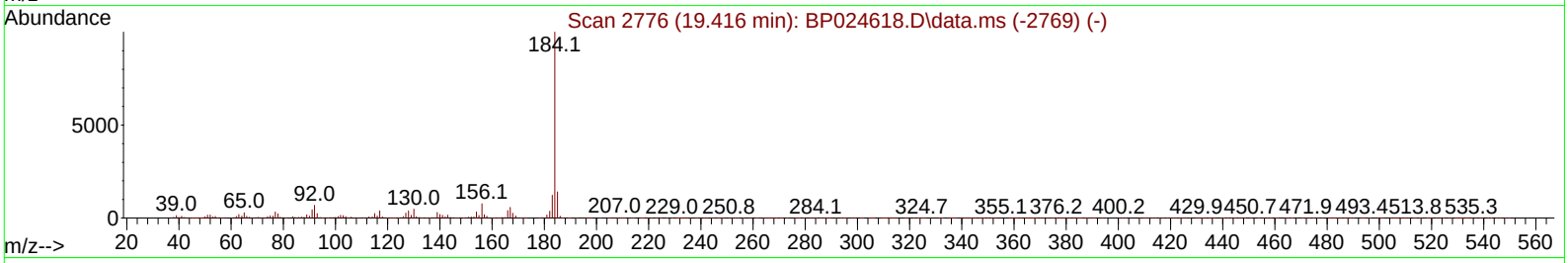
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024702.D
Acq On : 20 May 2025 10:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: May 20 12:58:55 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration







TIC: BP024702.D\data.ms

(77) Benzidine

19.416min (-0.000) 89911.52 ng

response 1248901

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.00	13.86
183.00	12.30	12.78
0.00	0.00	0.00

Instrument :
BNA_P
ClientSampleId :
DFTPP

DDT Breakdown

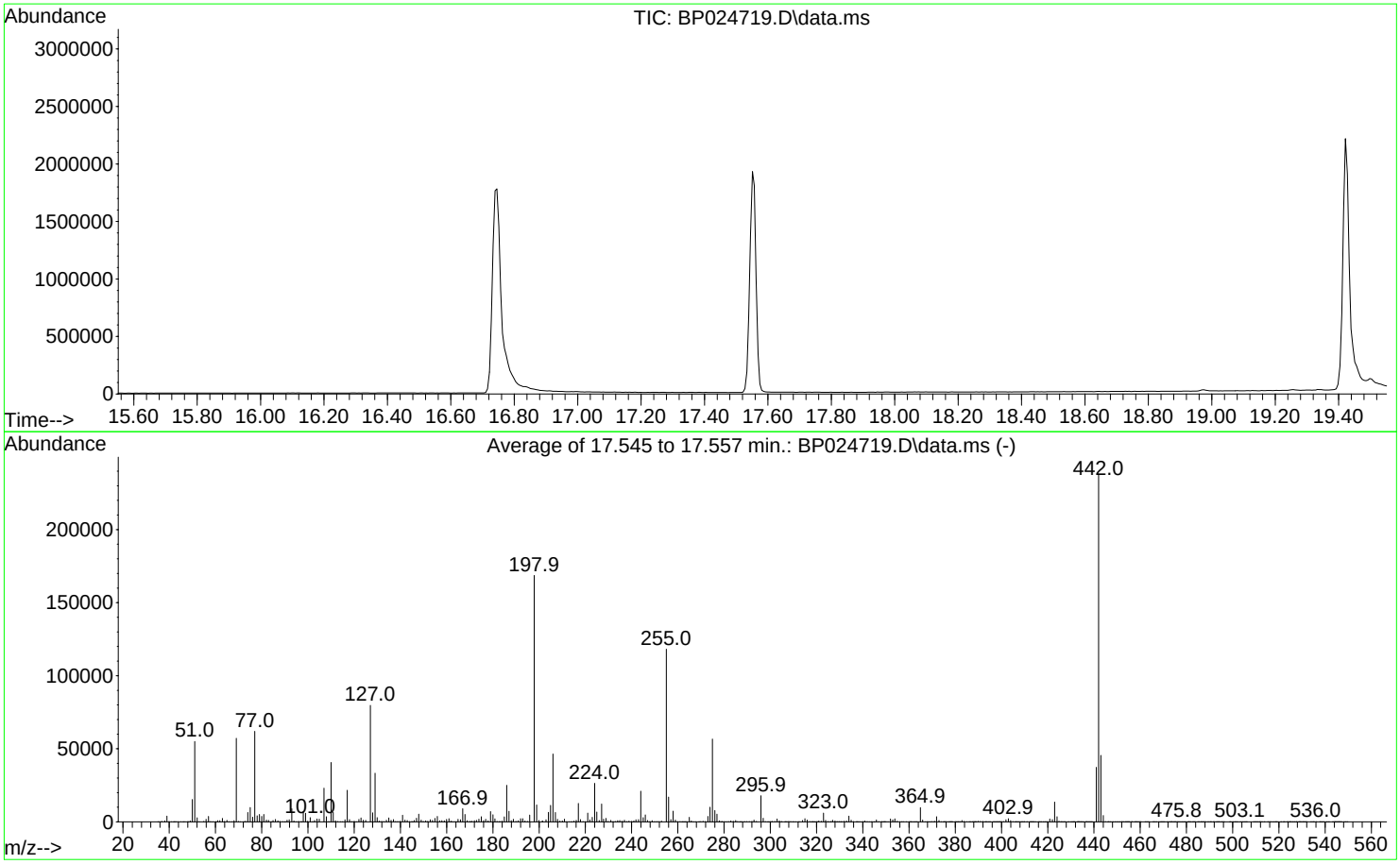
Date	Instrument Name	DFTPP Data File
5/20/2025	BNA_P	BP024702.D
Compound Name	**Response**	**Retention Time**
DDT	589251	20.698
DDD	22194	20.239
DDE	3176	19.71
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
25370	614621	4.13

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024719.D
Acq On : 21 May 2025 00:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Tue May 13 16:21:39 2025



AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2449

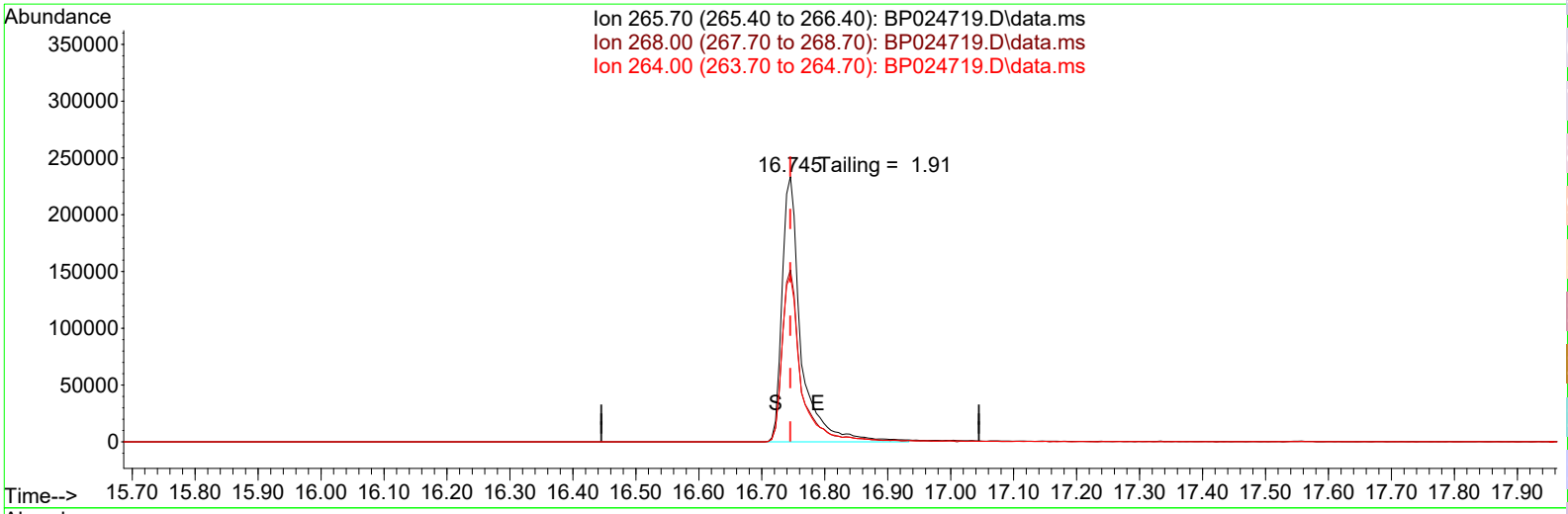
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	32.6	55010	PASS
68	69	0.00	2	1.5	860	PASS
69	198	0.00	100	33.9	57147	PASS
70	69	0.00	2	0.5	296	PASS
127	198	10	80	47.3	79720	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	168604	PASS
199	198	5	9	6.9	11589	PASS
275	198	10	60	33.6	56664	PASS
365	198	1	100	5.8	9757	PASS
441	198	0.01	100	22.1	37312	PASS
442	442	100	100	100.0	237717	PASS
443	442	15	24	19.1	45464	PASS

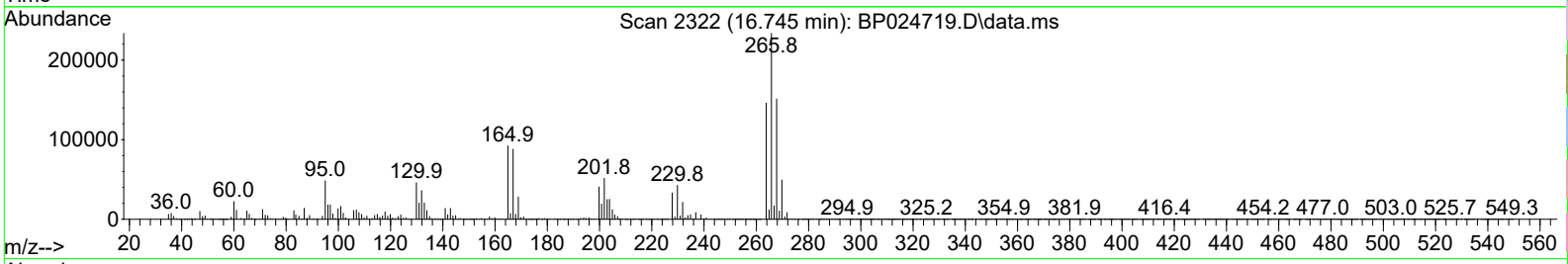
Sample Results: **BP024719.D**

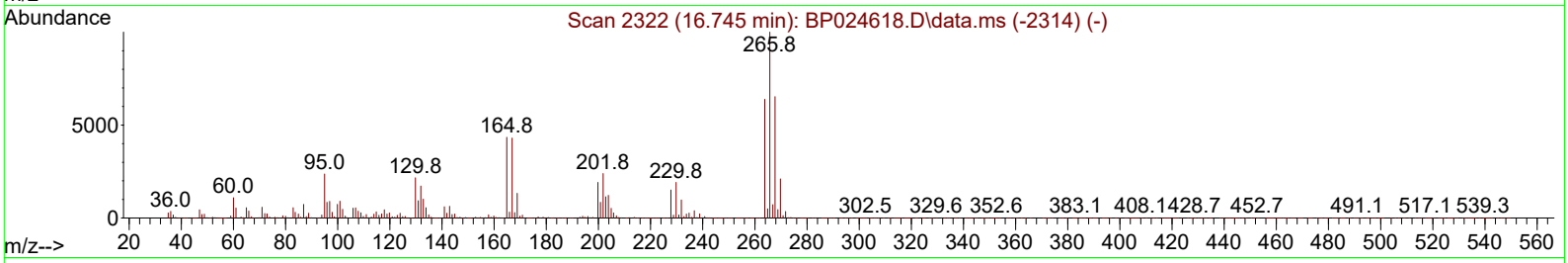
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024719.D
Acq On : 21 May 2025 00:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: May 21 02:08:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration







TIC: BP024719.D\data.ms

(70) Pentachlorophenol (C)

16.745min (+ 0.000) 574282.04 ng

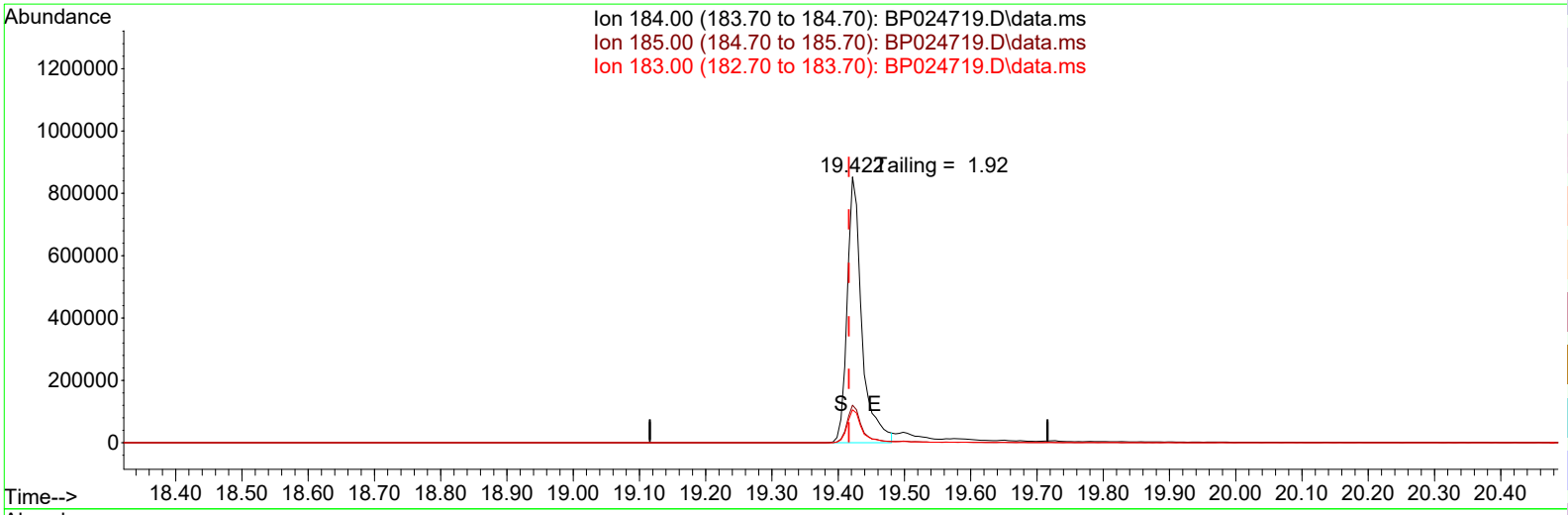
response 492342

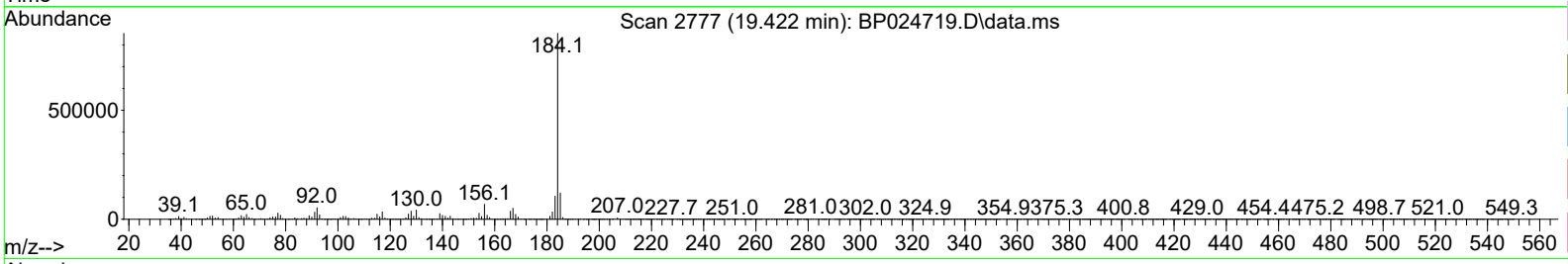
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	65.30	64.77
264.00	63.90	62.52
0.00	0.00	0.00

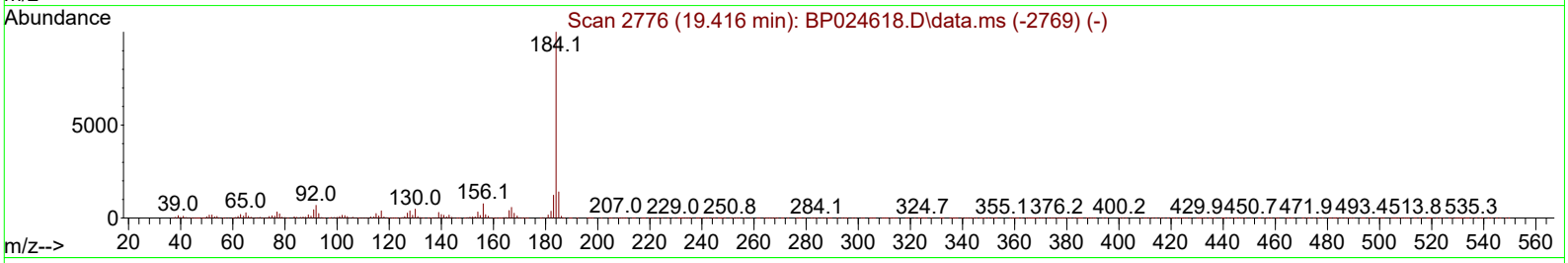
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024719.D
Acq On : 21 May 2025 00:06
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
DFTPP

Quant Time: May 21 02:08:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration







TIC: BP024719.D\data.ms

(77) Benzidine

19.422min (+ 0.006) 97951.15 ng

response 1323225

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.00	14.13
183.00	12.30	12.40
0.00	0.00	0.00

Instrument :
BNA_P
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
5/20/2025	BNA_P	BP024719.D
Compound Name	**Response**	**Retention Time**
DDT	647981	20.698
DDD	21430	20.239
DDE	4529	19.722
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
25959	673940	3.85

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

Report of Analysis

Client:	Nobis Group			Date Collected:	
Project:	Raymark Superfund Site			Date Received:	
Client Sample ID:	PB167973BL			SDG No.:	Q1984
Lab Sample ID:	PB167973BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group3
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
BP024635.D	1	05/13/25 09:05	05/15/25 13:05	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.13	U	0.023	0.13	0.17	mg/Kg
91-57-6	2-Methylnaphthalene	0.13	U	0.026	0.13	0.17	mg/Kg
208-96-8	Acenaphthylene	0.13	U	0.029	0.13	0.17	mg/Kg
83-32-9	Acenaphthene	0.13	U	0.021	0.13	0.17	mg/Kg
86-73-7	Fluorene	0.13	U	0.025	0.13	0.17	mg/Kg
85-01-8	Phenanthrene	0.13	U	0.021	0.13	0.17	mg/Kg
120-12-7	Anthracene	0.13	U	0.033	0.13	0.17	mg/Kg
206-44-0	Fluoranthene	0.13	U	0.030	0.13	0.17	mg/Kg
129-00-0	Pyrene	0.13	U	0.036	0.13	0.17	mg/Kg
56-55-3	Benzo(a)anthracene	0.13	U	0.023	0.13	0.17	mg/Kg
218-01-9	Chrysene	0.13	U	0.020	0.13	0.17	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.13	U	0.019	0.13	0.17	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.13	U	0.022	0.13	0.17	mg/Kg
50-32-8	Benzo(a)pyrene	0.13	U	0.030	0.13	0.17	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.13	U	0.029	0.13	0.17	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.13	U	0.027	0.13	0.17	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.13	U	0.026	0.13	0.17	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	82.1		37 - 122		82%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.7		44 - 115		79%	SPK: 100
1718-51-0	Terphenyl-d14	84.5		54 - 127		85%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	146000	7.658				
1146-65-2	Naphthalene-d8	564000	10.434				
15067-26-2	Acenaphthene-d10	358000	14.293				
1517-22-2	Phenanthrene-d10	765000	17.087				
1719-03-5	Chrysene-d12	884000	21.516				
1520-96-3	Perylene-d12	966000	24.804				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group			Date Collected:	
Project:	Raymark Superfund Site			Date Received:	
Client Sample ID:	PB167973BL			SDG No.:	Q1984
Lab Sample ID:	PB167973BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group3
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
BP024635.D	1	05/13/25 09:05	05/15/25 13:05	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	250	A			4.82	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024635.D
Acq On : 15 May 2025 13:05
Operator : RC/JU
Sample : PB167973BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BL

Quant Time: May 15 13:42:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	146276	20.000	ng	0.00
21) Naphthalene-d8	10.434	136	564318	20.000	ng	0.00
39) Acenaphthene-d10	14.293	164	357828	20.000	ng	-0.01
64) Phenanthrene-d10	17.087	188	764705	20.000	ng	-0.01
76) Chrysene-d12	21.516	240	884123	20.000	ng	0.00
86) Perylene-d12	24.804	264	966019	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	1227824	143.566	ng	0.00
7) Phenol-d6	6.852	99	1498528	137.290	ng	0.00
23) Nitrobenzene-d5	8.811	82	916951	82.100	ng	0.00
42) 2,4,6-Tribromophenol	15.804	330	871050	143.590	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	2149900	78.715	ng	0.00
79) Terphenyl-d14	19.816	244	4357069	84.502	ng	0.00

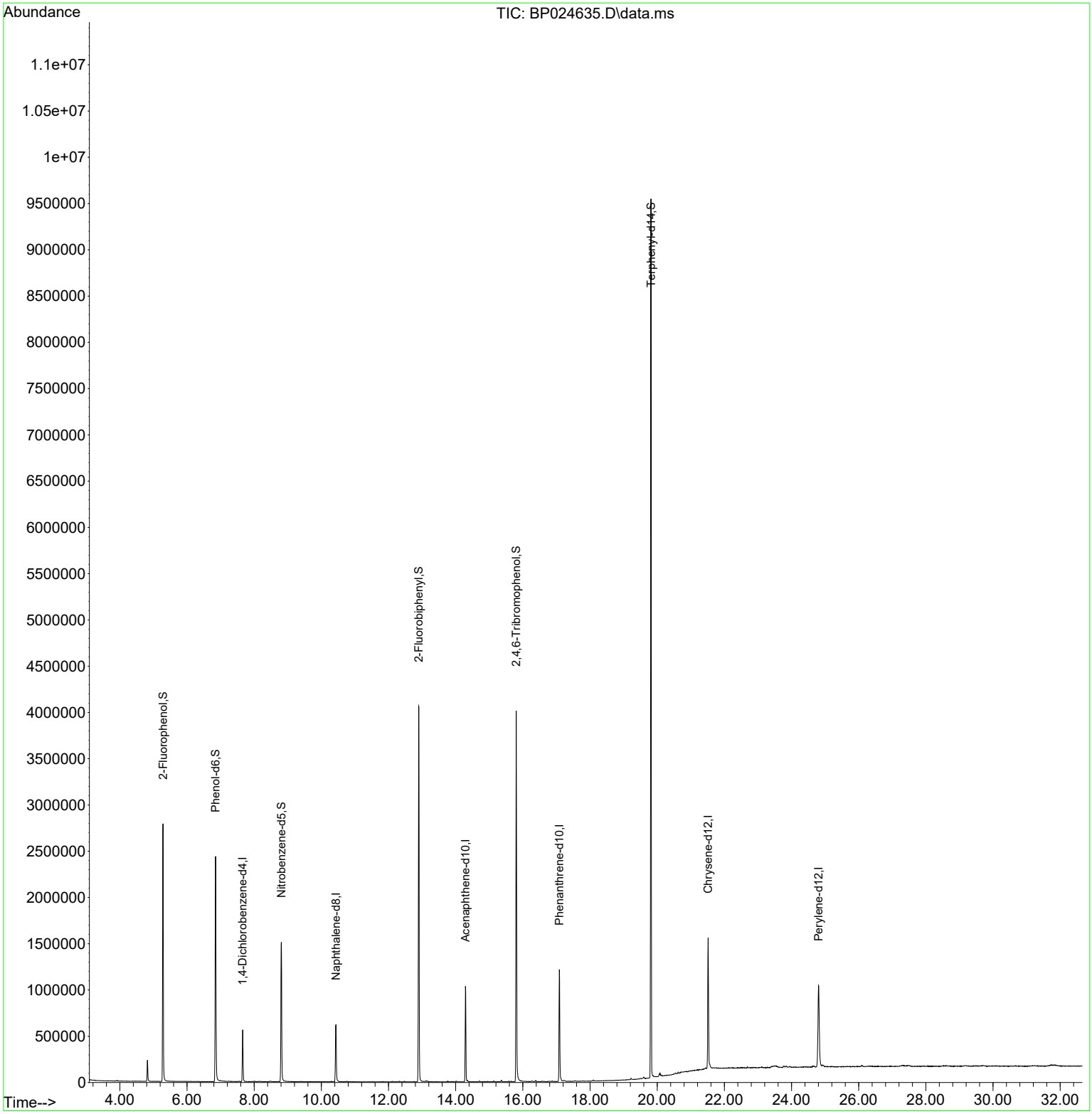
Target Compounds Qvalue

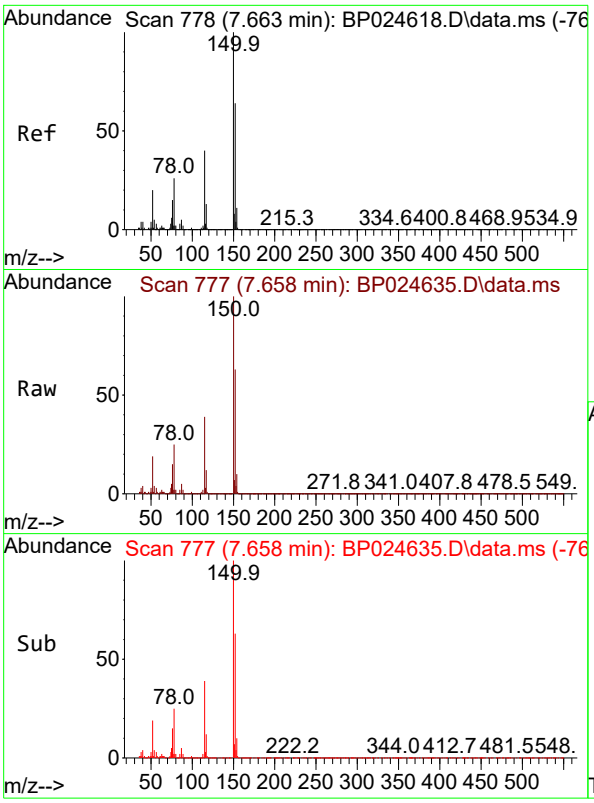
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024635.D
Acq On : 15 May 2025 13:05
Operator : RC/JU
Sample : PB167973BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BL

Quant Time: May 15 13:42:00 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



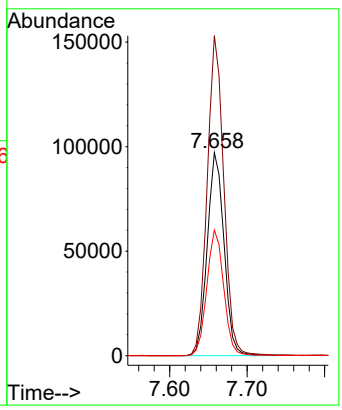


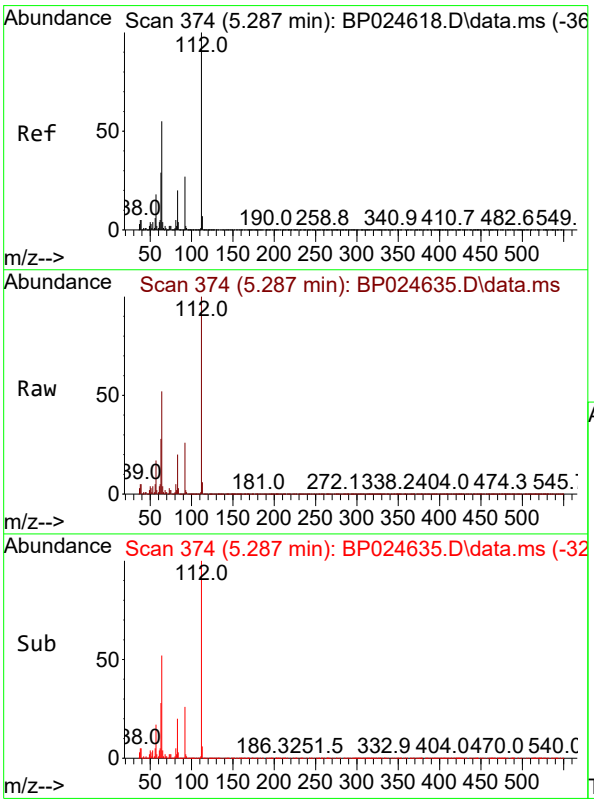
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.658 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Instrument :
BNA_P
ClientSampleId :
PB167973BL

Tgt Ion:152 Resp: 146276

Ion	Ratio	Lower	Upper
152	100		
150	157.7	125.9	188.9
115	61.9	50.1	75.1

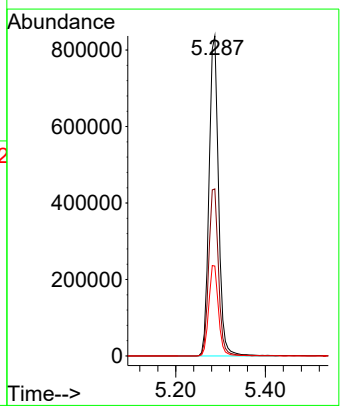


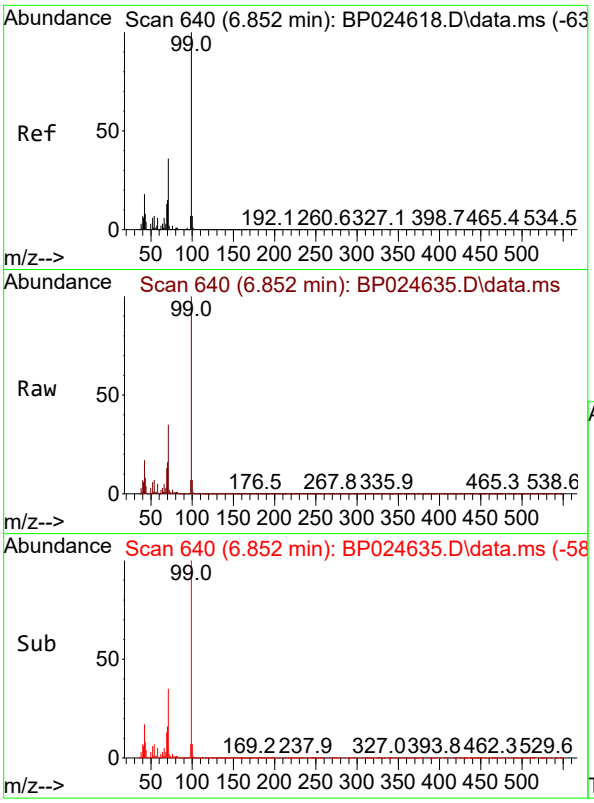


#5
2-Fluorophenol
Concen: 143.566 ng
RT: 5.287 min Scan# 374
Delta R.T. 0.000 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Tgt Ion:112 Resp: 1227824

Ion	Ratio	Lower	Upper
112	100		
64	52.2	44.1	66.1
63	28.1	23.5	35.3



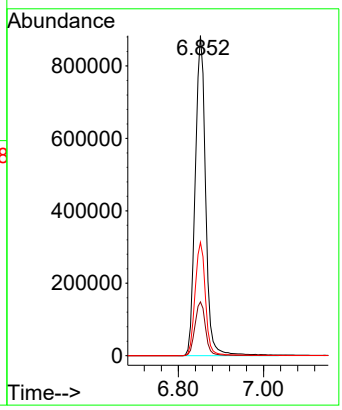


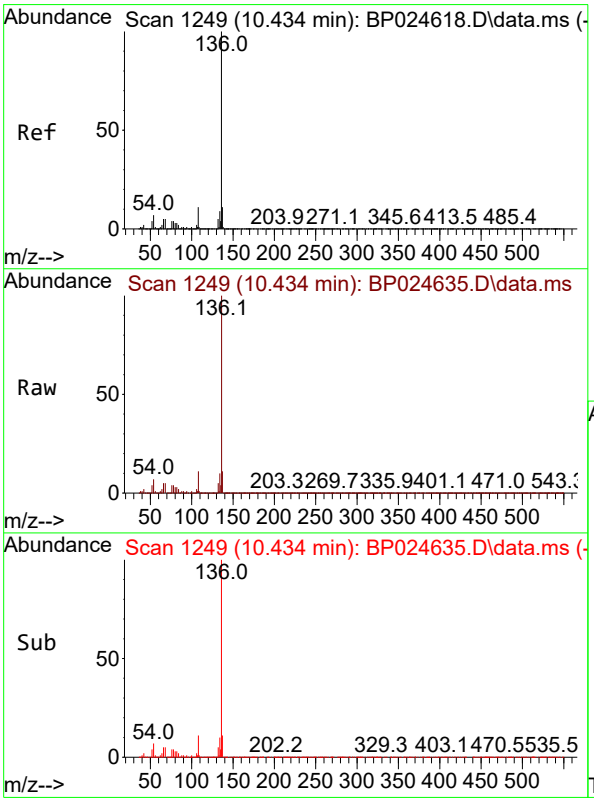
#7
Phenol-d6
Concen: 137.290 ng
RT: 6.852 min Scan# 64
Delta R.T. 0.000 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Instrument :
BNA_P
ClientSampleId :
PB167973BL

Tgt Ion: 99 Resp: 1498528

Ion	Ratio	Lower	Upper
99	100		
42	16.8	14.4	21.6
71	35.4	29.2	43.8

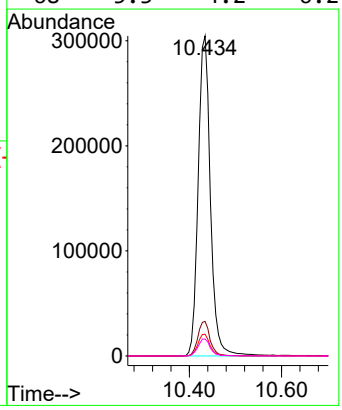


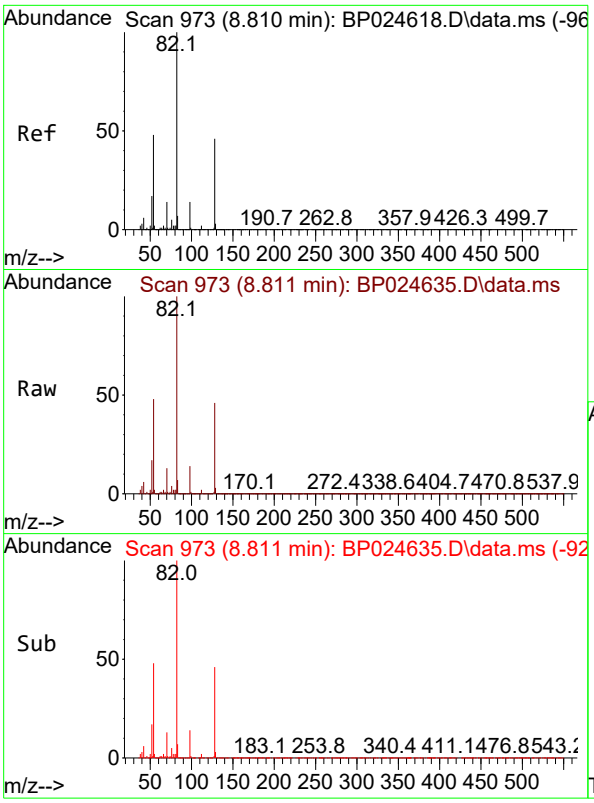


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.434 min Scan# 1249
Delta R.T. -0.000 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Tgt Ion:136 Resp: 564318

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	6.8	5.5	8.3
68	5.3	4.2	6.2



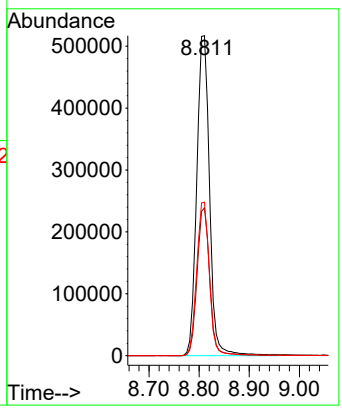


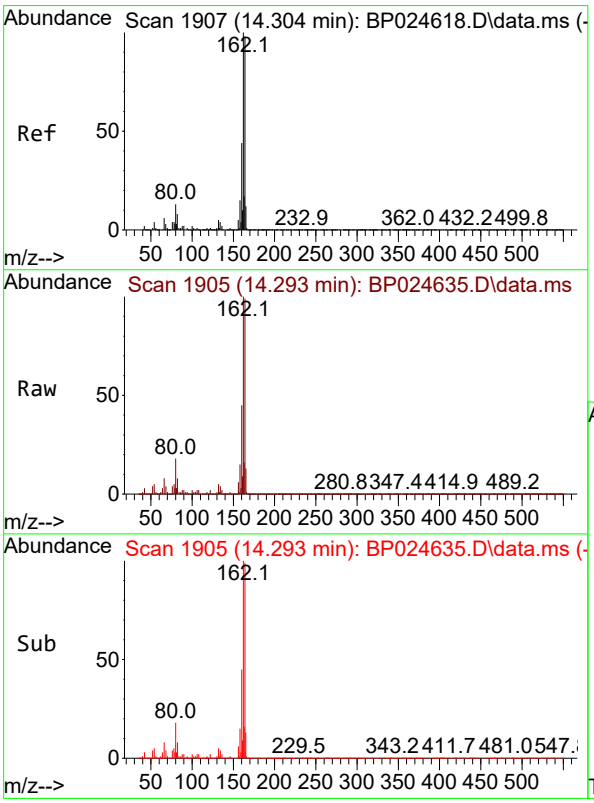
#23
Nitrobenzene-d5
Concen: 82.100 ng
RT: 8.811 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Instrument :
BNA_P
ClientSampleId :
PB167973BL

Tgt Ion: 82 Resp: 916951

Ion	Ratio	Lower	Upper
82	100		
128	46.2	37.0	55.4
54	47.9	38.7	58.1

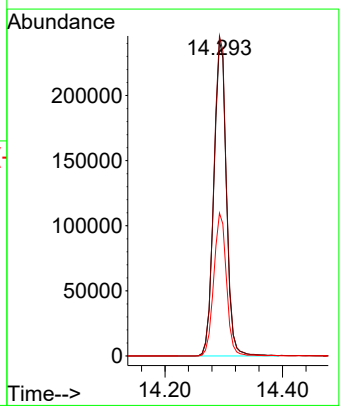


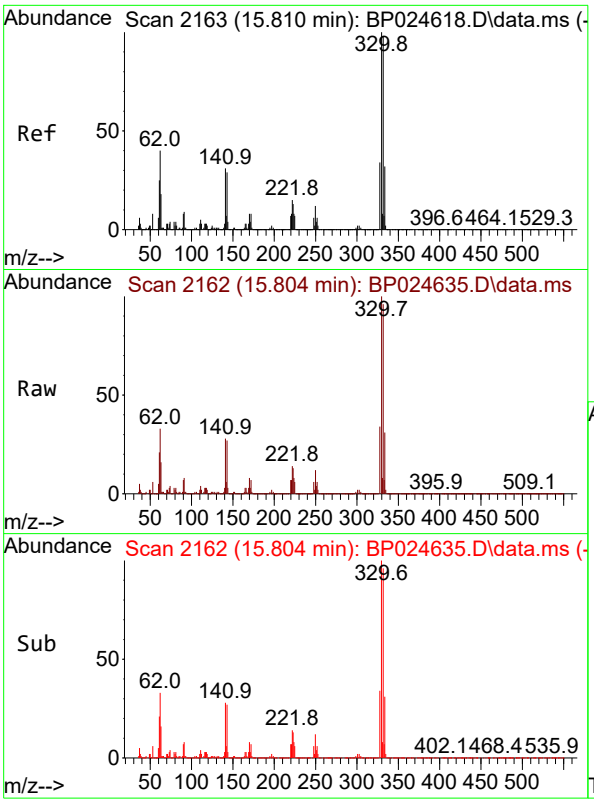


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.293 min Scan# 1905
Delta R.T. -0.012 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Tgt Ion:164 Resp: 357828

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.8	122.6
160	45.2	36.3	54.5



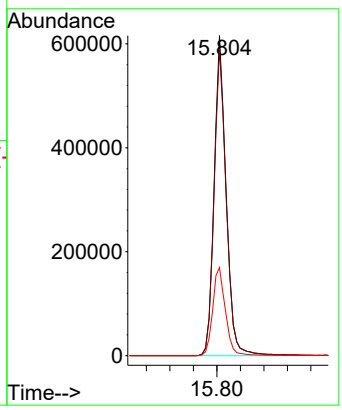


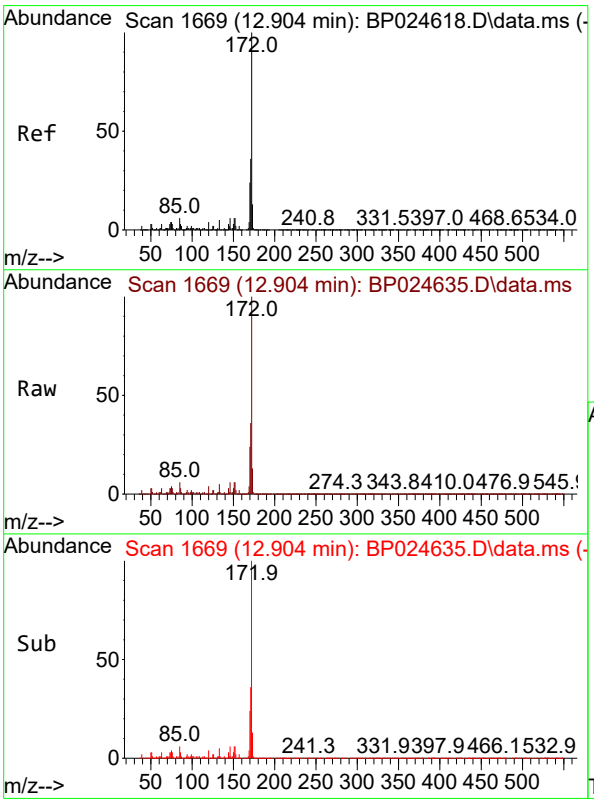
#42
2,4,6-Tribromophenol
Concen: 143.590 ng
RT: 15.804 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Instrument :
BNA_P
ClientSampleId :
PB167973BL

Tgt Ion:330 Resp: 871050

Ion	Ratio	Lower	Upper
330	100		
332	97.6	78.2	117.4
141	29.3	24.3	36.5

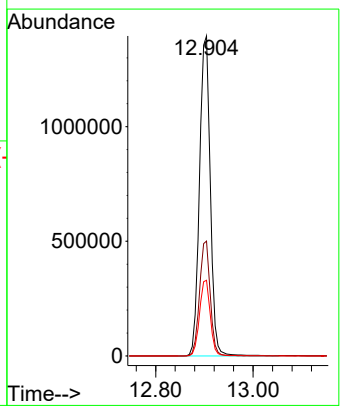


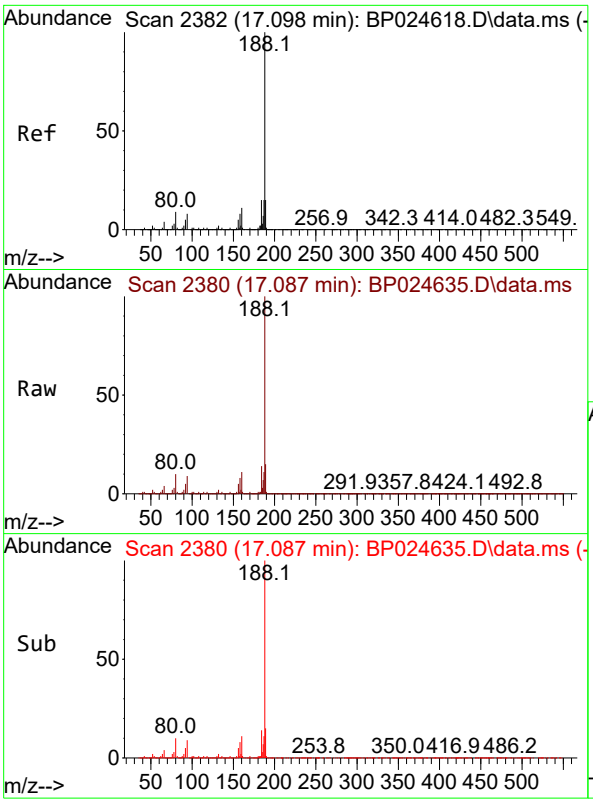


#45
2-Fluorobiphenyl
Concen: 78.715 ng
RT: 12.904 min Scan# 1669
Delta R.T. 0.000 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Tgt Ion:172 Resp: 2149900

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.8	43.2
170	23.7	18.8	28.2



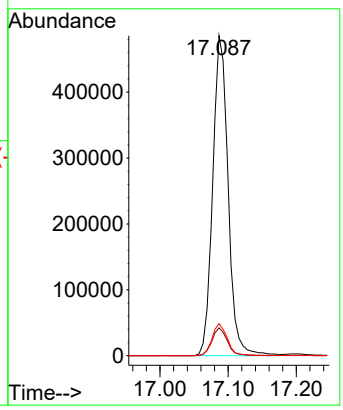


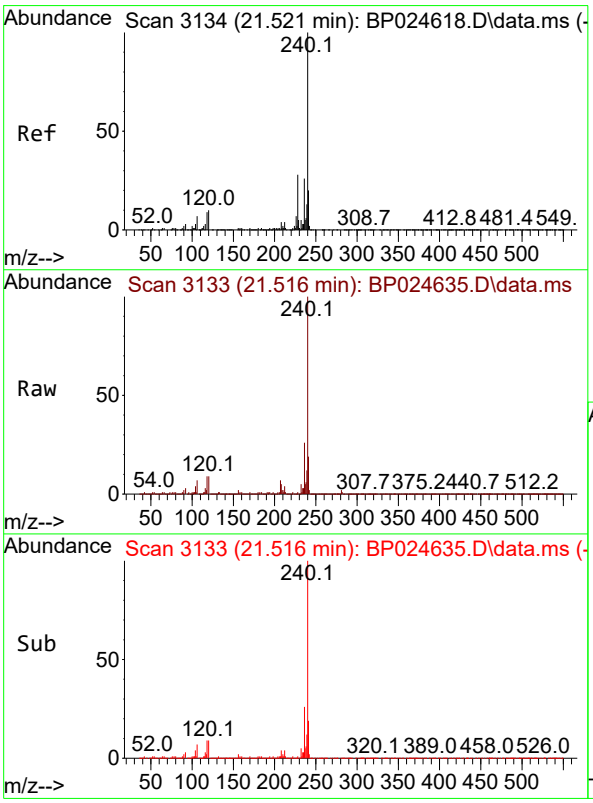
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.087 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Instrument :
BNA_P
ClientSampleId :
PB167973BL

Tgt Ion:188 Resp: 764705

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.5	9.7
80	10.0	7.3	10.9

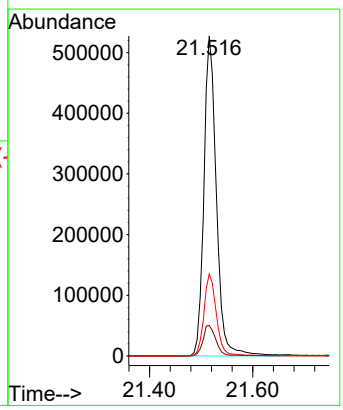


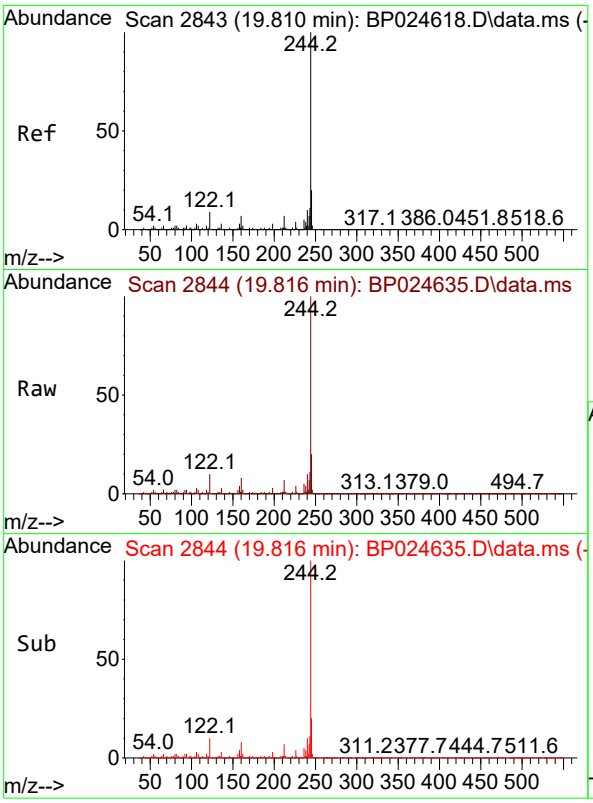


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.516 min Scan# 3133
Delta R.T. -0.006 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Tgt Ion:240 Resp: 884123

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.8	11.6
236	25.6	20.6	31.0



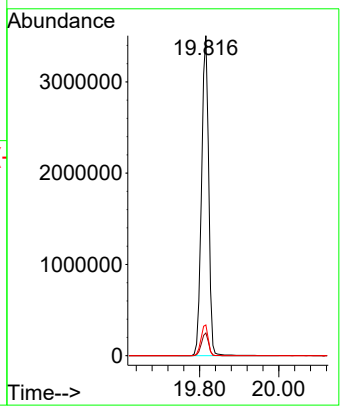


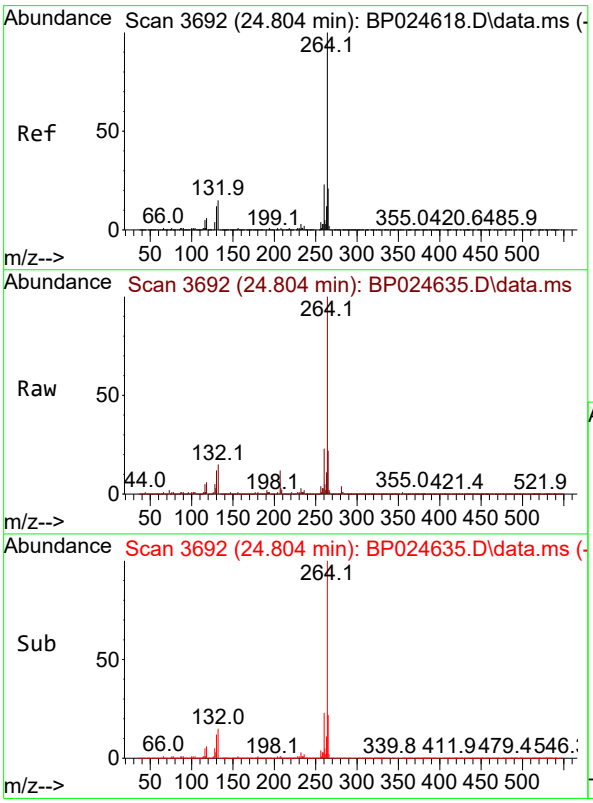
#79
Terphenyl-d14
Concen: 84.502 ng
RT: 19.816 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Instrument :
BNA_P
ClientSampleId :
PB167973BL

Tgt Ion:244 Resp: 4357069

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.5	8.3
122	9.6	7.4	11.0

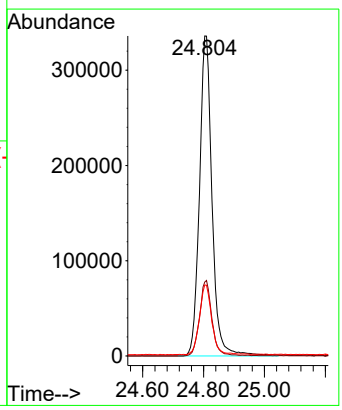




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.804 min Scan# 3692
Delta R.T. 0.000 min
Lab File: BP024635.D
Acq: 15 May 2025 13:05

Tgt Ion:264 Resp: 966019

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.7	28.1
265	22.2	17.0	25.6



Sample Results: **BP024635.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024635.D
Acq On : 15 May 2025 13:05
Operator : RC/JU
Sample : PB167973BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BL

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024635.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.823	290	295	313	rVB	228383	326896	2.78%	0.716%
2	5.287	367	374	390	rBV	2784562	4125597	35.10%	9.034%
3	6.852	632	640	663	rBV	2434729	4195894	35.70%	9.188%
4	7.658	770	777	788	rBV	559157	856077	7.28%	1.875%
5	8.811	964	973	995	rBV	1509171	2681055	22.81%	5.871%
6	10.434	1241	1249	1268	rBV	618499	1151578	9.80%	2.522%
7	12.899	1656	1668	1685	rBV	4060800	6343788	53.98%	13.892%
8	14.293	1897	1905	1913	rBV	1032771	1540089	13.10%	3.372%
9	15.804	2154	2162	2187	rBV	4009623	5965235	50.76%	13.063%
10	17.087	2373	2380	2397	rBV2	1210781	1972012	16.78%	4.318%
11	19.816	2838	2844	2853	rBV	9495789	11752174	100.00%	25.735%
12	21.516	3127	3133	3155	rBV2	1407261	2408127	20.49%	5.273%
13	24.804	3684	3692	3708	rVB	866007	2347927	19.98%	5.141%

Sum of corrected areas: 45666449

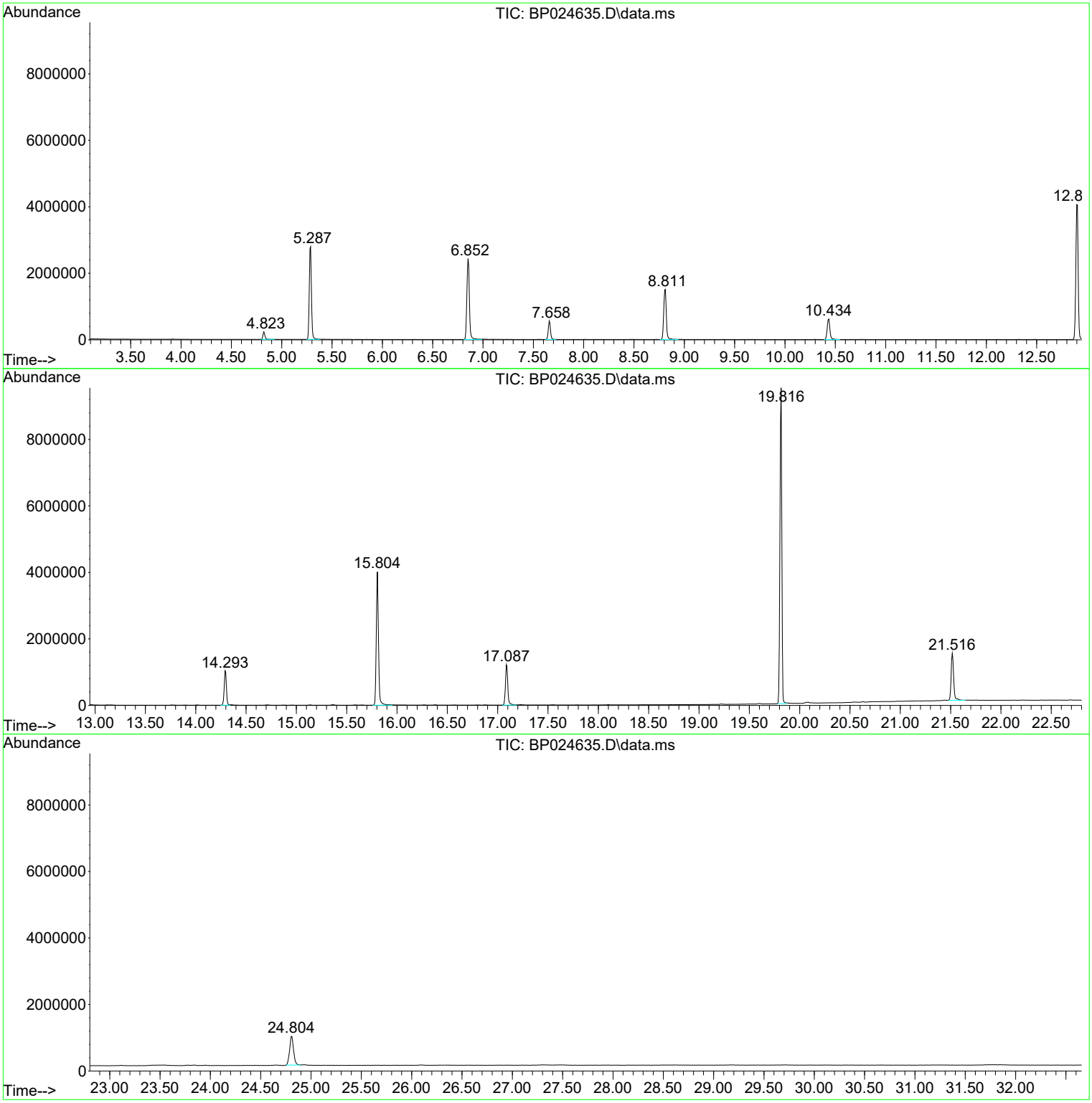
Sample Results: **BP024635.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024635.D
Acq On : 15 May 2025 13:05
Operator : RC/JU
Sample : PB167973BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024635.D
Acq On : 15 May 2025 13:05
Operator : RC/JU
Sample : PB167973BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BL

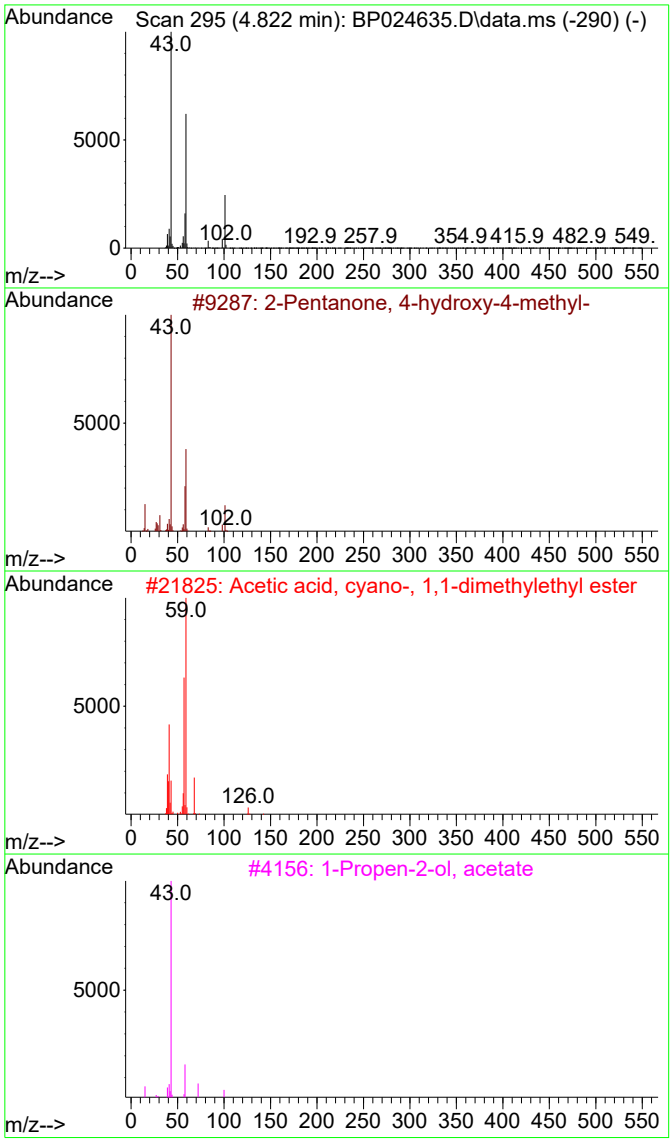
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

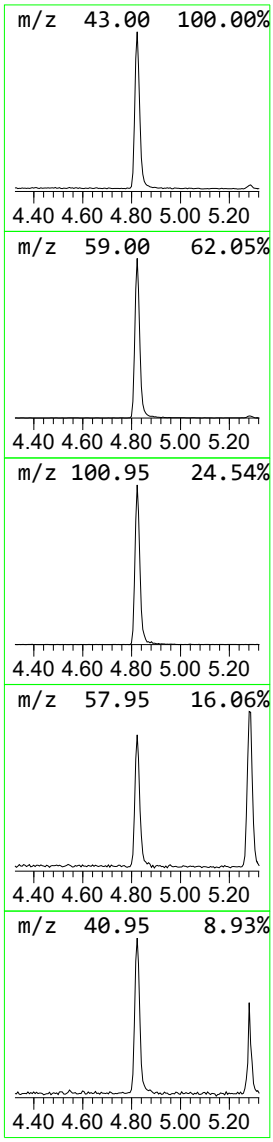
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.822	7.64 ng	326896	1,4-Dichlorobenzene-d4	7.658

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	64
2	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	12
3	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
4	Acetone	58	C3H6O	000067-64-1	10
5	Morpholine, 4-methyl-	101	C5H11NO	000109-02-4	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024635.D
Acq On : 15 May 2025 13:05
Operator : RC/JU
Sample : PB167973BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.822	7.6	ng	326896	1	7.658	856077	20.0

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

Report of Analysis

Client:	Nobis Group			Date Collected:	
Project:	Raymark Superfund Site			Date Received:	
Client Sample ID:	PB168052BL			SDG No.:	Q1984
Lab Sample ID:	PB168052BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group3
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
BP024704.D	1	05/19/25 09:45	05/20/25 12:33	PB168052

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.13	U	0.023	0.13	0.17	mg/Kg
91-57-6	2-Methylnaphthalene	0.13	U	0.026	0.13	0.17	mg/Kg
208-96-8	Acenaphthylene	0.13	U	0.029	0.13	0.17	mg/Kg
83-32-9	Acenaphthene	0.13	U	0.021	0.13	0.17	mg/Kg
86-73-7	Fluorene	0.13	U	0.025	0.13	0.17	mg/Kg
85-01-8	Phenanthrene	0.13	U	0.021	0.13	0.17	mg/Kg
120-12-7	Anthracene	0.13	U	0.033	0.13	0.17	mg/Kg
206-44-0	Fluoranthene	0.13	U	0.030	0.13	0.17	mg/Kg
129-00-0	Pyrene	0.13	U	0.036	0.13	0.17	mg/Kg
56-55-3	Benzo(a)anthracene	0.13	U	0.023	0.13	0.17	mg/Kg
218-01-9	Chrysene	0.13	U	0.020	0.13	0.17	mg/Kg
205-99-2	Benzo(b)fluoranthene	0.13	U	0.019	0.13	0.17	mg/Kg
207-08-9	Benzo(k)fluoranthene	0.13	U	0.022	0.13	0.17	mg/Kg
50-32-8	Benzo(a)pyrene	0.13	U	0.030	0.13	0.17	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	0.13	U	0.029	0.13	0.17	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	0.13	U	0.027	0.13	0.17	mg/Kg
191-24-2	Benzo(g,h,i)perylene	0.13	U	0.026	0.13	0.17	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	80.0		37 - 122		80%	SPK: 100
321-60-8	2-Fluorobiphenyl	81.0		44 - 115		81%	SPK: 100
1718-51-0	Terphenyl-d14	88.7		54 - 127		89%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	129000	7.652				
1146-65-2	Naphthalene-d8	472000	10.428				
15067-26-2	Acenaphthene-d10	278000	14.281				
1517-22-2	Phenanthrene-d10	578000	17.086				
1719-03-5	Chrysene-d12	678000	21.516				
1520-96-3	Perylene-d12	780000	24.798				
TENTATIVE IDENTIFIED COMPOUNDS							

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

Report of Analysis

Client:	Nobis Group			Date Collected:	
Project:	Raymark Superfund Site			Date Received:	
Client Sample ID:	PB168052BL			SDG No.:	Q1984
Lab Sample ID:	PB168052BL			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.02	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group3
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
BP024704.D	1	05/19/25 09:45	05/20/25 12:33	PB168052

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
000123-42-2	2-Pentanone, 4-hydroxy-4-methyl-	240	A			4.82	ug/Kg

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024704.D
Acq On : 20 May 2025 12:33
Operator : RC/JU
Sample : PB168052BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168052BL

Quant Time: May 20 13:05:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

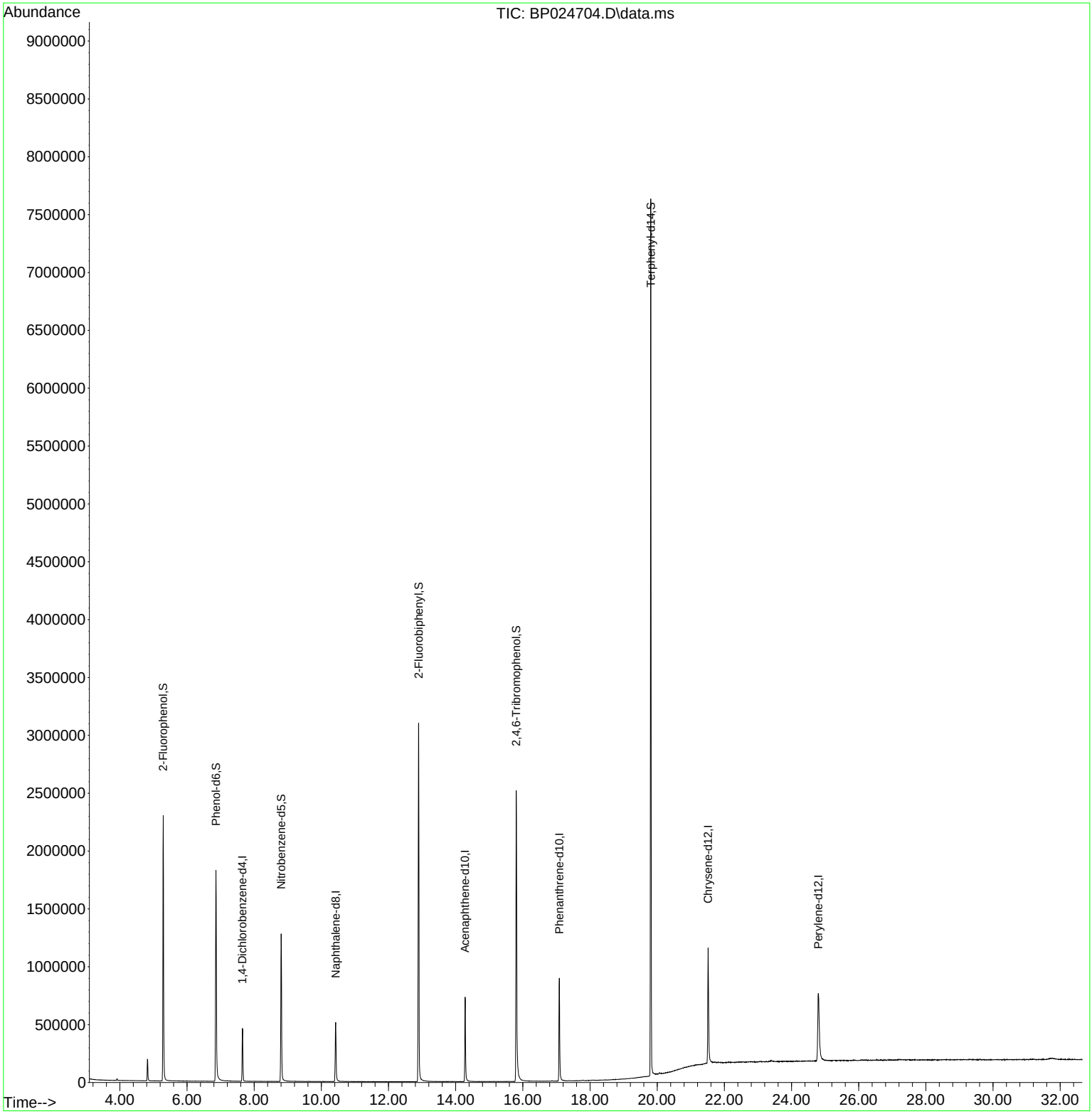
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.652	152	128612	20.000	ng	-0.01
21) Naphthalene-d8	10.428	136	471746	20.000	ng	0.00
39) Acenaphthene-d10	14.281	164	278297	20.000	ng	-0.02
64) Phenanthrene-d10	17.086	188	578330	20.000	ng	-0.01
76) Chrysene-d12	21.516	240	678376	20.000	ng	0.00
86) Perylene-d12	24.798	264	779891	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.293	112	1015156	135.002	ng	0.00
7) Phenol-d6	6.863	99	1178271	122.775	ng	0.01
23) Nitrobenzene-d5	8.804	82	747015	80.009	ng	0.00
42) 2,4,6-Tribromophenol	15.804	330	696273	147.580	ng	0.00
45) 2-Fluorobiphenyl	12.898	172	1719877	80.966	ng	0.00
79) Terphenyl-d14	19.810	244	3509752	88.714	ng	0.00
Target Compounds						Qvalue

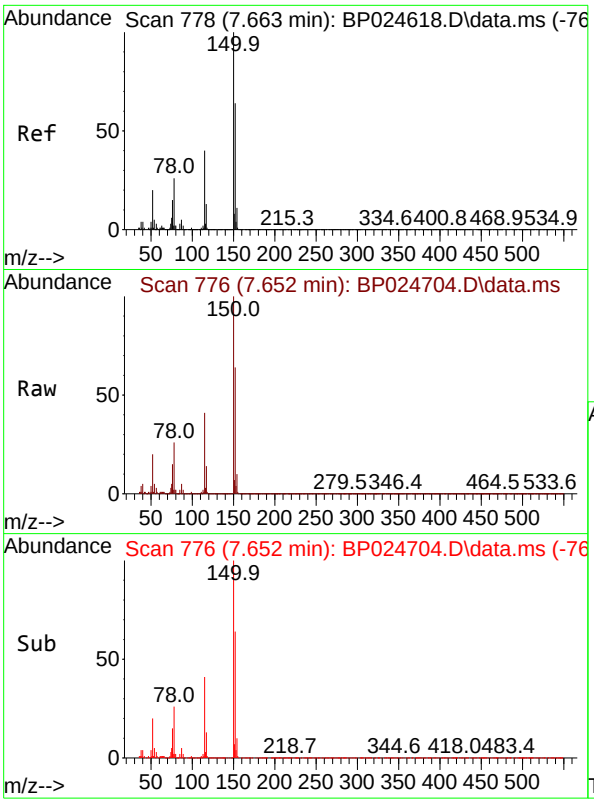
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024704.D
Acq On : 20 May 2025 12:33
Operator : RC/JU
Sample : PB168052BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168052BL

Quant Time: May 20 13:05:09 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



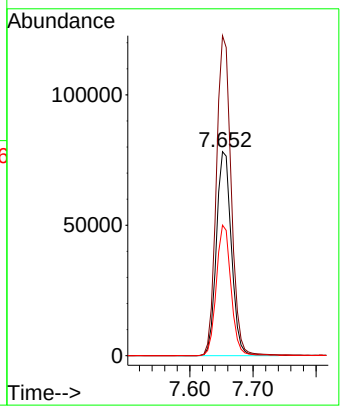


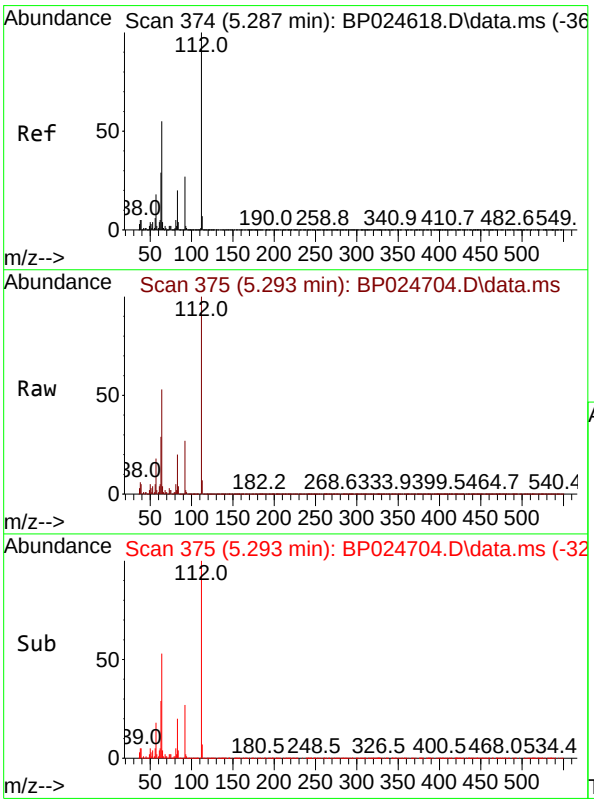
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.652 min Scan# 7
Delta R.T. -0.011 min
Lab File: BP024704.D
Acq: 20 May 2025 12:33

Instrument :
BNA_P
ClientSampleId :
PB168052BL

Tgt Ion:152 Resp: 128612

Ion	Ratio	Lower	Upper
152	100		
150	156.8	125.9	188.9
115	64.0	50.1	75.1

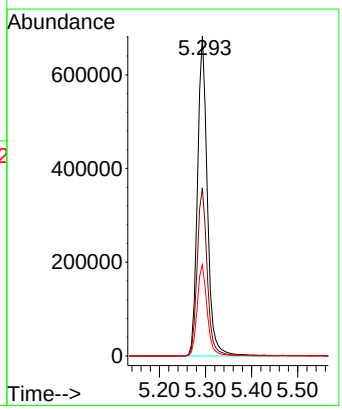


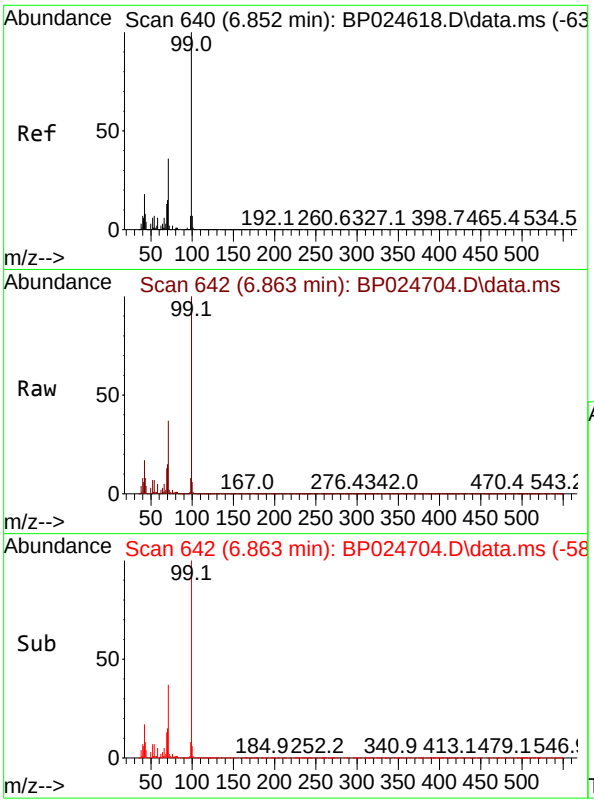


#5
2-Fluorophenol
Concen: 135.002 ng
RT: 5.293 min Scan# 375
Delta R.T. 0.006 min
Lab File: BP024704.D
Acq: 20 May 2025 12:33

Tgt Ion:112 Resp: 1015156

Ion	Ratio	Lower	Upper
112	100		
64	52.5	44.1	66.1
63	28.6	23.5	35.3



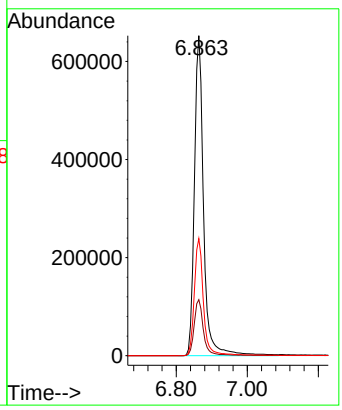


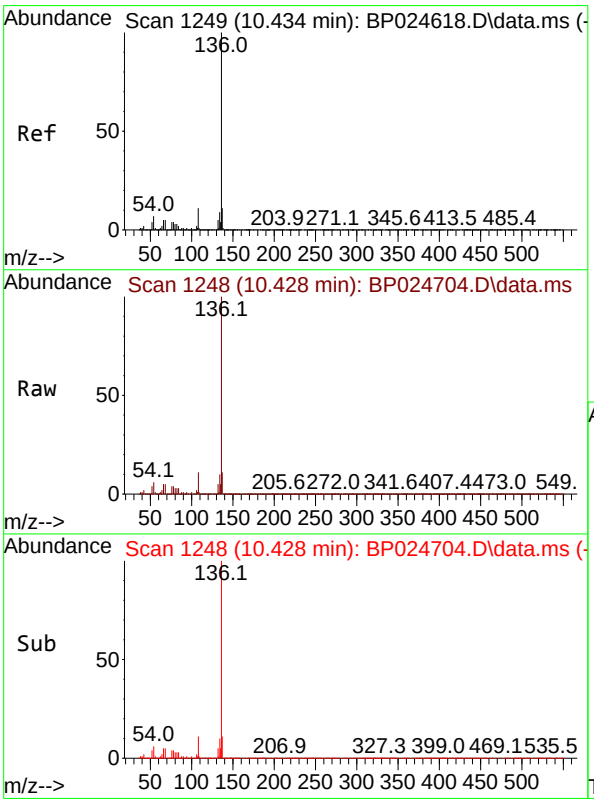
#7
Phenol-d6
Concen: 122.775 ng
RT: 6.863 min Scan# 64
Delta R.T. 0.012 min
Lab File: BP024704.D
Acq: 20 May 2025 12:33

Instrument :
BNA_P
ClientSampleId :
PB168052BL

Tgt Ion: 99 Resp: 1178271

Ion	Ratio	Lower	Upper
99	100		
42	17.5	14.4	21.6
71	36.6	29.2	43.8

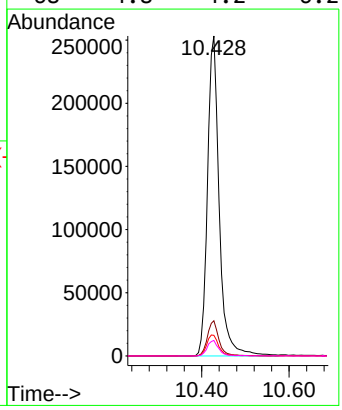


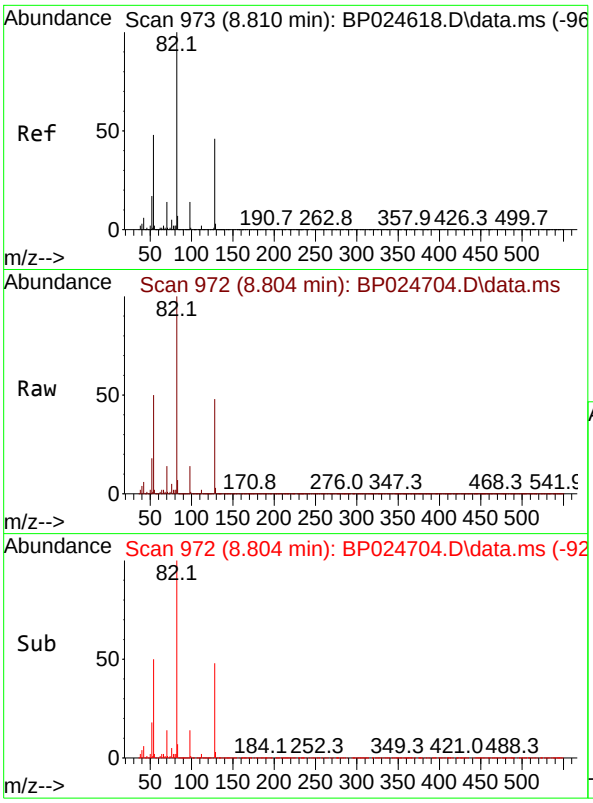


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.428 min Scan# 1248
Delta R.T. -0.006 min
Lab File: BP024704.D
Acq: 20 May 2025 12:33

Tgt Ion:136 Resp: 471746

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	6.4	5.5	8.3
68	4.8	4.2	6.2



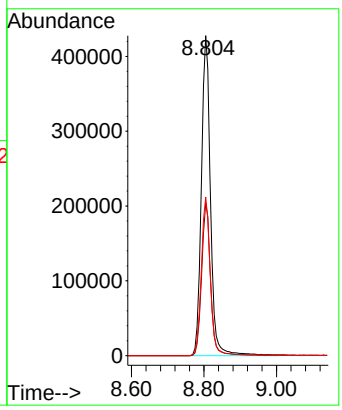


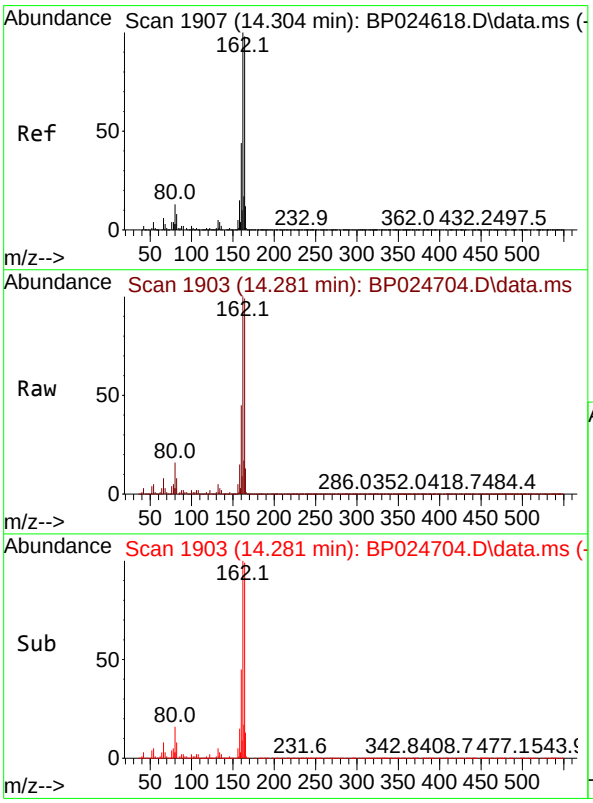
#23
Nitrobenzene-d5
Concen: 80.009 ng
RT: 8.804 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024704.D
Acq: 20 May 2025 12:33

Instrument :
BNA_P
ClientSampleId :
PB168052BL

Tgt Ion: 82 Resp: 747015

Ion	Ratio	Lower	Upper
82	100		
128	47.6	37.0	55.4
54	49.6	38.7	58.1

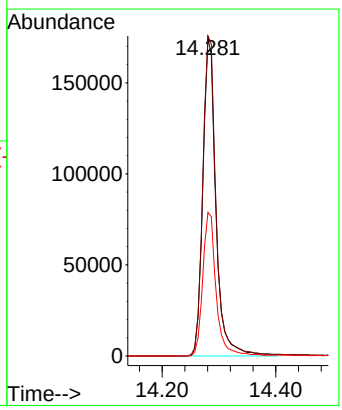


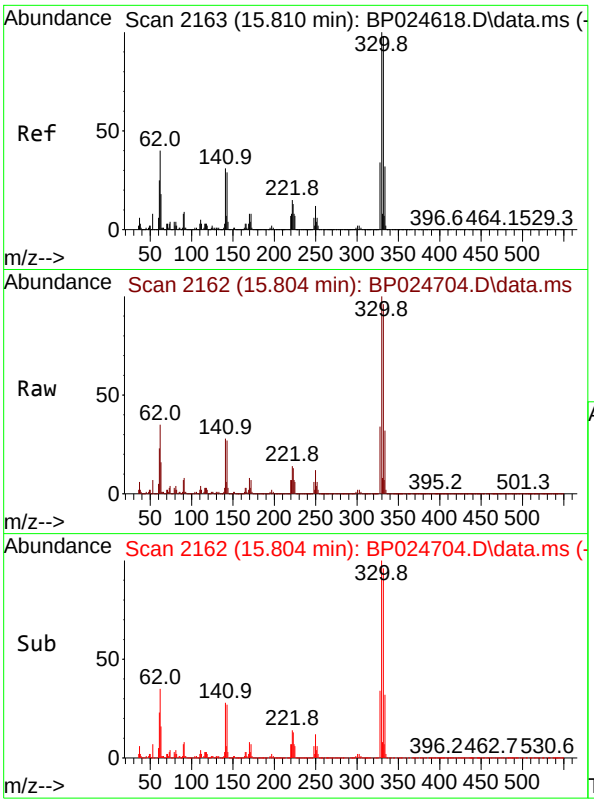


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.281 min Scan# 1903
Delta R.T. -0.024 min
Lab File: BP024704.D
Acq: 20 May 2025 12:33

Tgt Ion:164 Resp: 278297

Ion	Ratio	Lower	Upper
164	100		
162	100.7	81.8	122.6
160	45.2	36.3	54.5



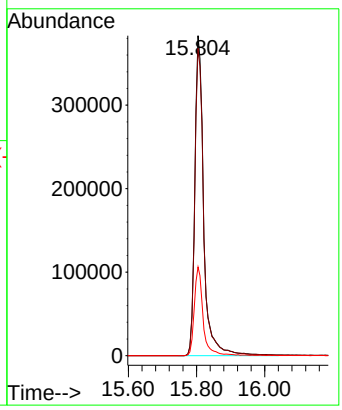


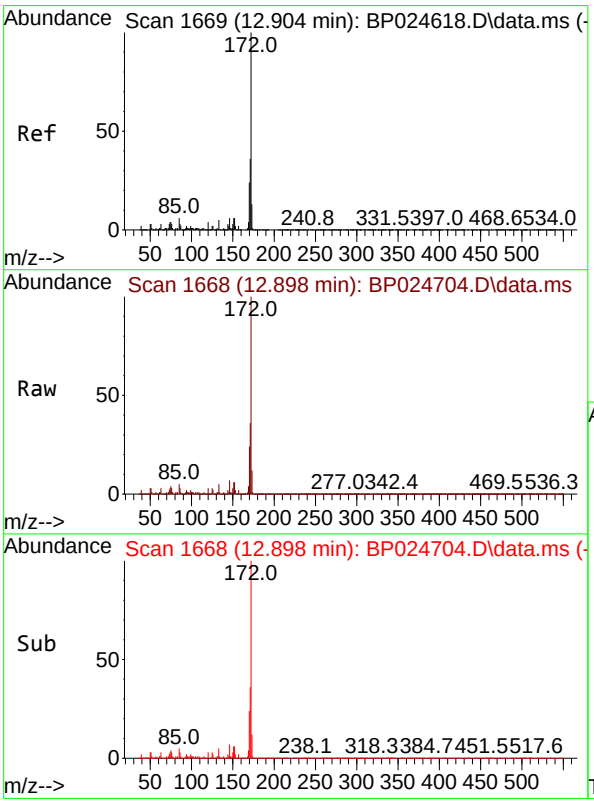
#42
2,4,6-Tribromophenol
Concen: 147.580 ng
RT: 15.804 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024704.D
Acq: 20 May 2025 12:33

Instrument :
BNA_P
ClientSampleId :
PB168052BL

Tgt Ion:330 Resp: 696273

Ion	Ratio	Lower	Upper
330	100		
332	97.3	78.2	117.4
141	27.5	24.3	36.5

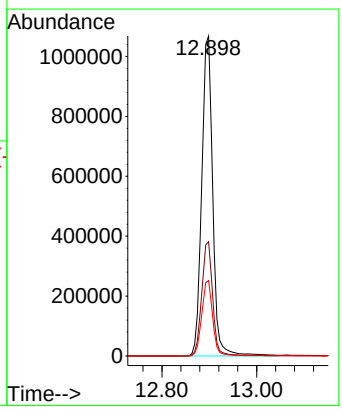


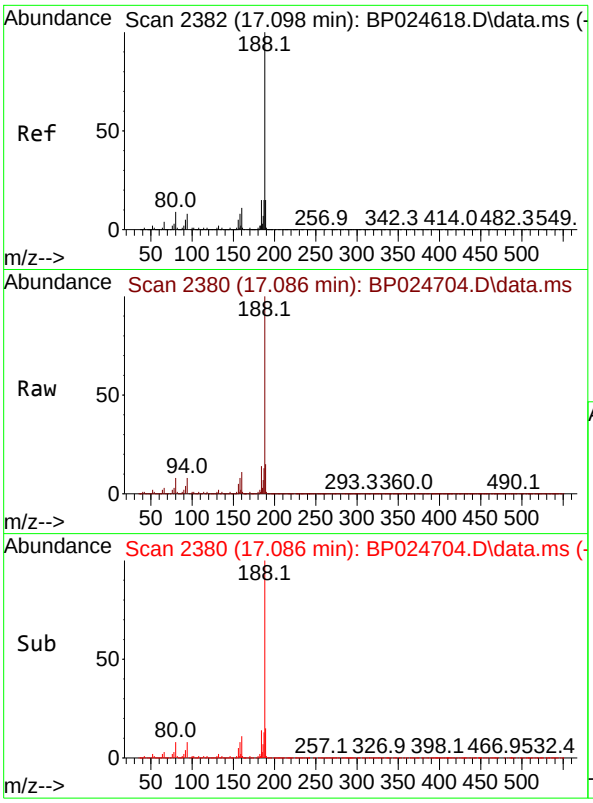


#45
2-Fluorobiphenyl
Concen: 80.966 ng
RT: 12.898 min Scan# 1668
Delta R.T. -0.006 min
Lab File: BP024704.D
Acq: 20 May 2025 12:33

Tgt Ion:172 Resp: 1719877

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.8	43.2
170	23.6	18.8	28.2



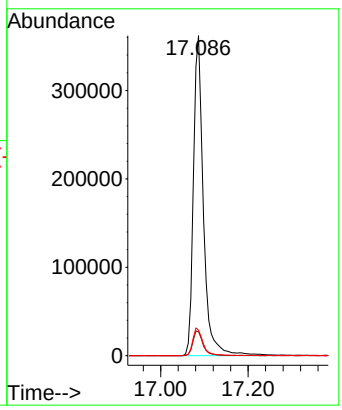


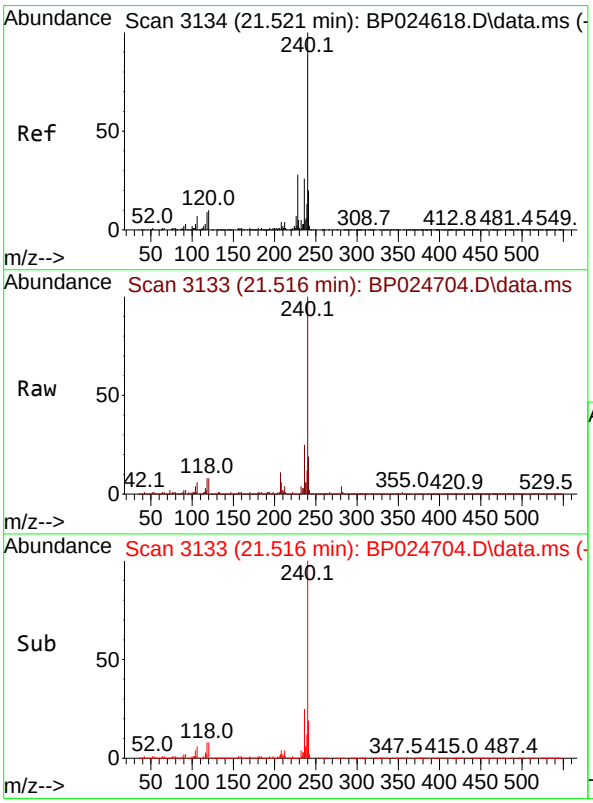
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.086 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024704.D
Acq: 20 May 2025 12:33

Instrument :
BNA_P
ClientSampleId :
PB168052BL

Tgt Ion:188 Resp: 578330

Ion	Ratio	Lower	Upper
188	100		
94	7.5	6.5	9.7
80	8.0	7.3	10.9

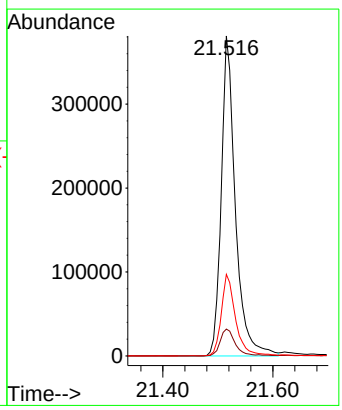


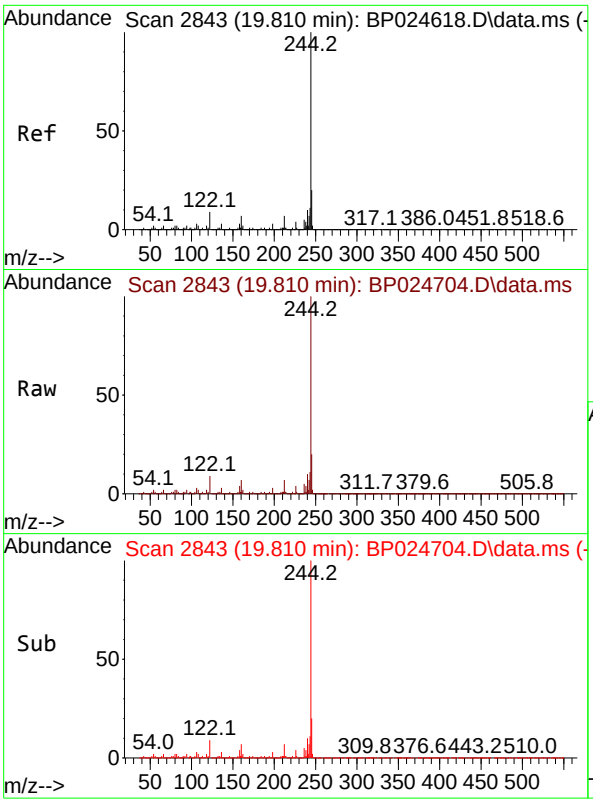


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.516 min Scan# 3133
Delta R.T. -0.006 min
Lab File: BP024704.D
Acq: 20 May 2025 12:33

Tgt Ion:240 Resp: 678376

Ion	Ratio	Lower	Upper
240	100		
120	8.4	7.8	11.6
236	25.5	20.6	31.0



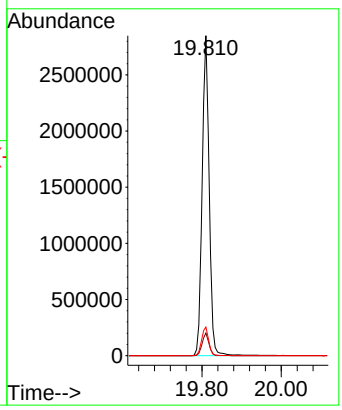


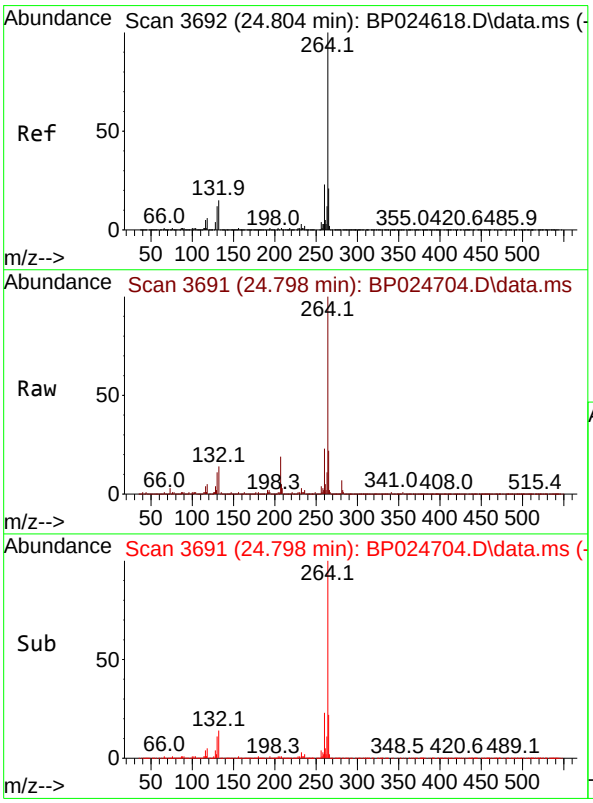
#79
Terphenyl-d14
Concen: 88.714 ng
RT: 19.810 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024704.D
Acq: 20 May 2025 12:33

Instrument :
BNA_P
ClientSampleId :
PB168052BL

Tgt Ion:244 Resp: 3509752

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.5	8.3
122	8.9	7.4	11.0

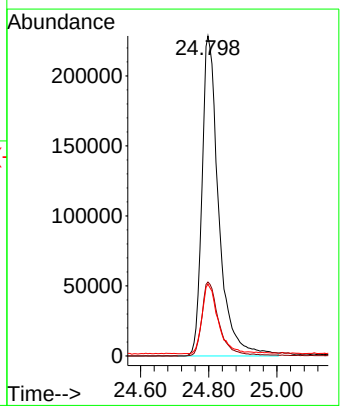




#86
Perylene-d12
Concen: 20.000 ng
RT: 24.798 min Scan# 3691
Delta R.T. -0.006 min
Lab File: BP024704.D
Acq: 20 May 2025 12:33

Tgt Ion:264 Resp: 779891

Ion	Ratio	Lower	Upper
264	100		
260	23.1	18.7	28.1
265	22.4	17.0	25.6



Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024704.D
Acq On : 20 May 2025 12:33
Operator : RC/JU
Sample : PB168052BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168052BL

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

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

Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BP024704.D\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	4.822	290	295	308	rBV	187891	264195	2.84%	0.731%
2	5.293	369	375	391	rBV	2295263	3422715	36.76%	9.469%
3	6.863	634	642	675	rBV	1824904	3343181	35.90%	9.249%
4	7.652	769	776	788	rBV	456521	738002	7.93%	2.042%
5	8.804	964	972	1000	rBV	1275951	2214659	23.78%	6.127%
6	10.428	1239	1248	1267	rBV	511041	954036	10.25%	2.639%
7	12.898	1659	1668	1681	rBV	3100615	4997112	53.66%	13.824%
8	14.281	1896	1903	1921	rBV	729479	1182622	12.70%	3.272%
9	15.804	2153	2162	2195	rBV	2514195	4578601	49.17%	12.666%
10	17.086	2373	2380	2395	rBV	890137	1440049	15.46%	3.984%
11	19.810	2837	2843	2855	rBV	7579262	9311854	100.00%	25.761%
12	21.516	3127	3133	3149	rBV	996823	1818879	19.53%	5.032%
13	24.798	3683	3691	3709	rBV	575668	1881749	20.21%	5.206%

Sum of corrected areas: 36147654

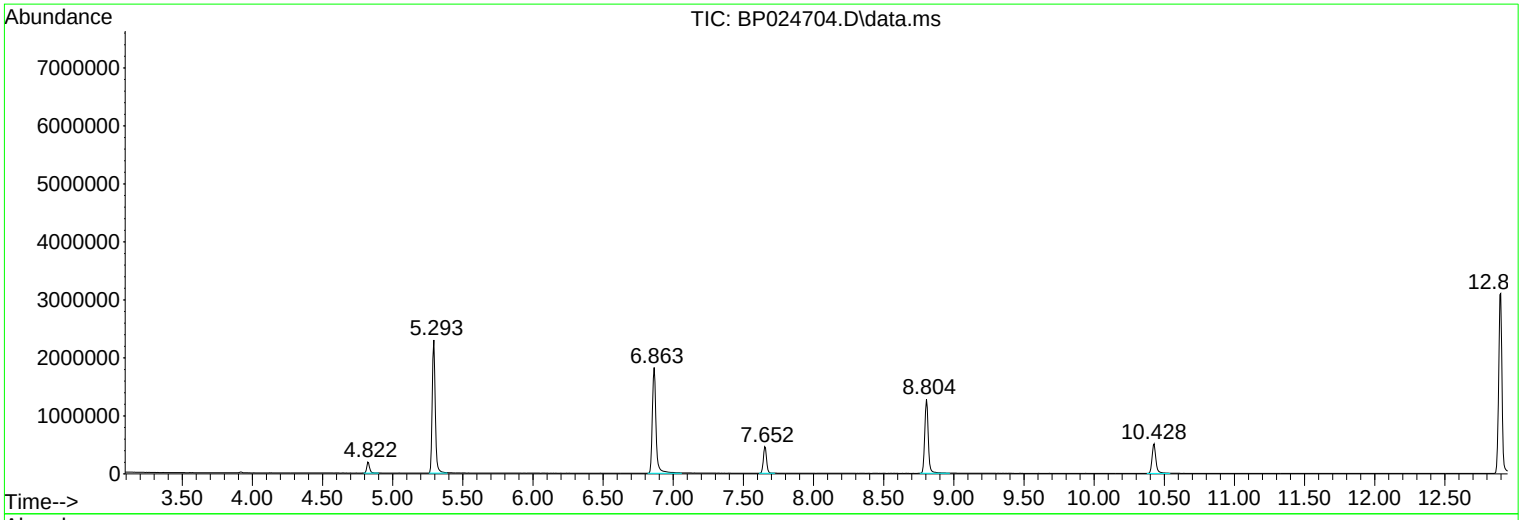
Sample Results: **BP024704.D**

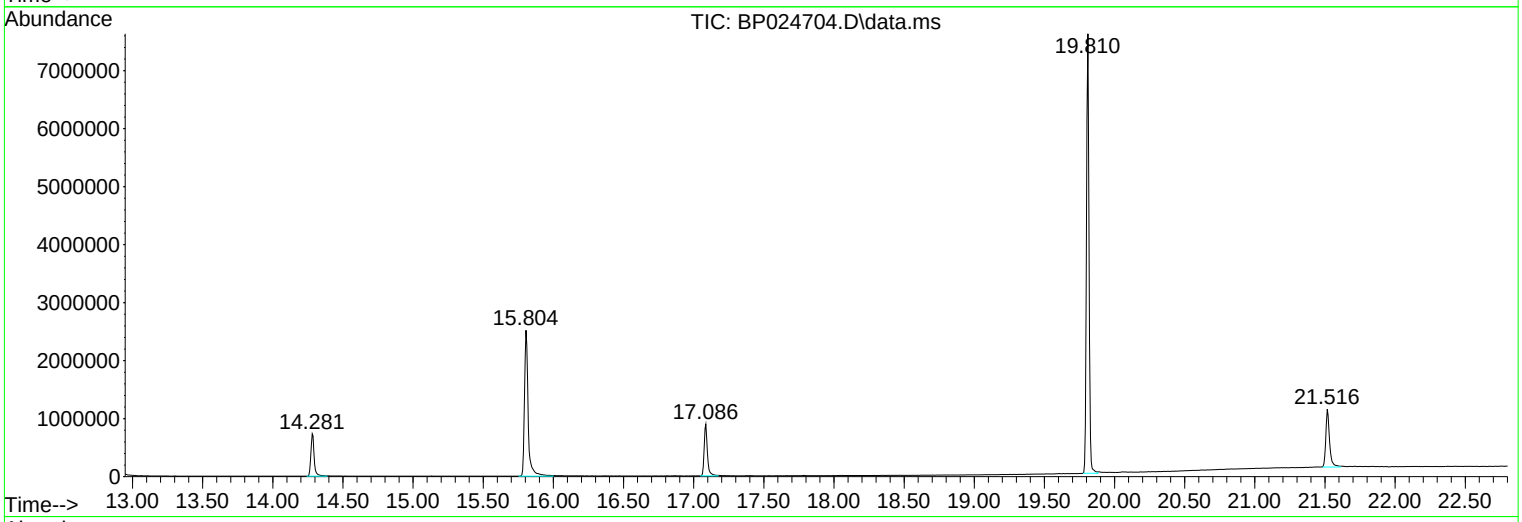
Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024704.D
Acq On : 20 May 2025 12:33
Operator : RC/JU
Sample : PB168052BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

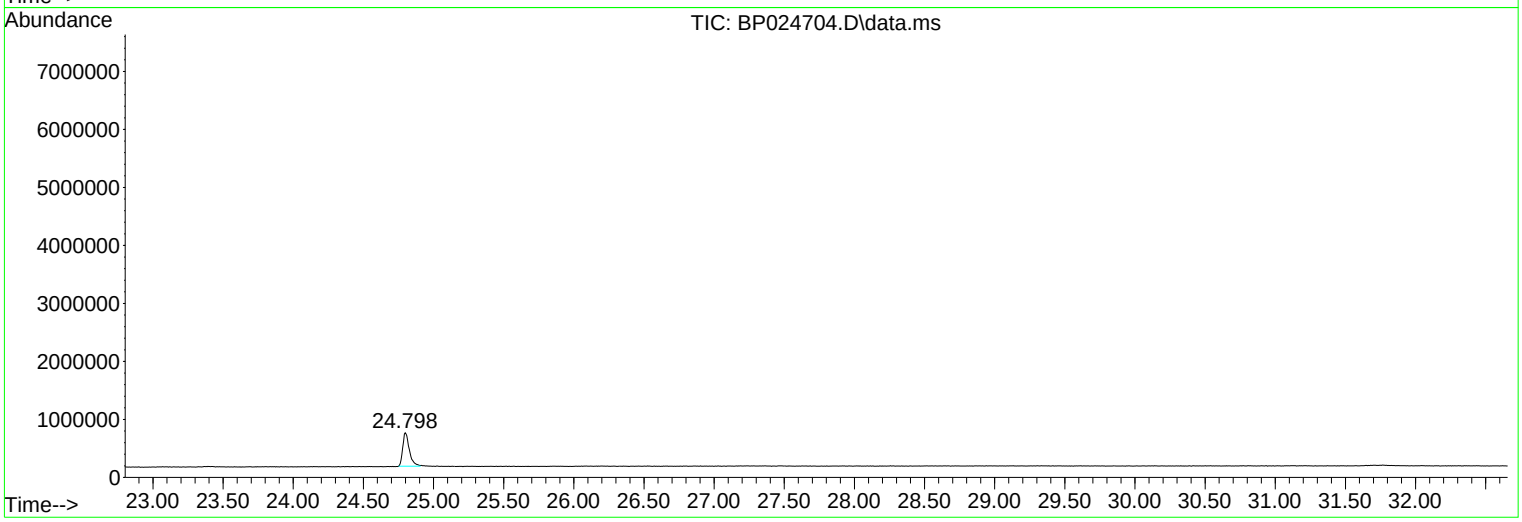
Instrument :
BNA_P
ClientSampleId :
PB168052BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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







Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024704.D
Acq On : 20 May 2025 12:33
Operator : RC/JU
Sample : PB168052BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168052BL

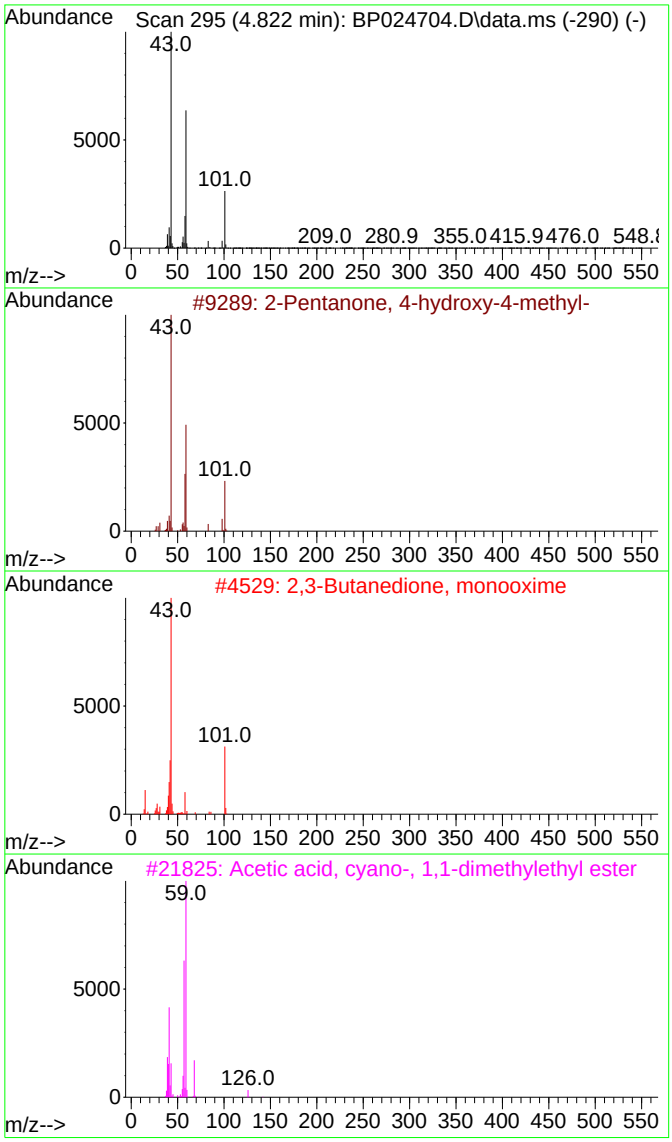
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

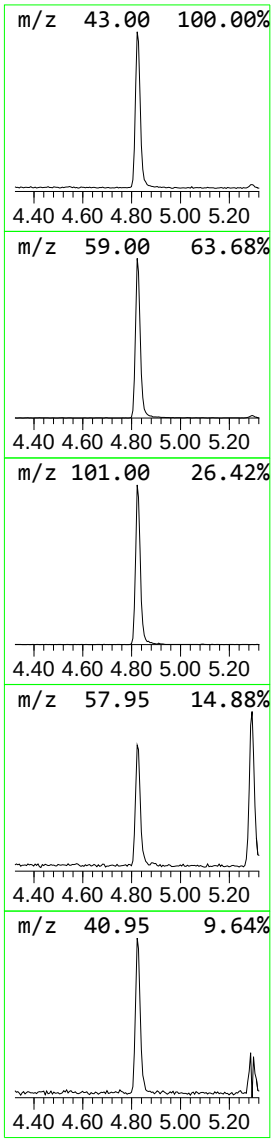
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.822	7.16 ng	264195	1,4-Dichlorobenzene-d4	7.652

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Pentanone, 4-hydroxy-4-methyl-	116	C6H12O2	000123-42-2	72
2	2,3-Butanedione, monooxime	101	C4H7NO2	000057-71-6	32
3	Acetic acid, cyano-, 1,1-dimethy...	141	C7H11NO2	001116-98-9	23
4	1-Propen-2-ol, acetate	100	C5H8O2	000108-22-5	10
5	(+-)-4-Amino-4,5-dihydro-2(3H)-f...	101	C4H7NO2	016504-58-8	9





Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024704.D
Acq On : 20 May 2025 12:33
Operator : RC/JU
Sample : PB168052BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168052BL

Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

					--Internal Standard---			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
2-Pentanone, 4-...	4.822	7.2	ng	264195	1	7.652	738002	20.0

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

Report of Analysis

Client:	Nobis Group			Date Collected:	
Project:	Raymark Superfund Site			Date Received:	
Client Sample ID:	PB167973BS			SDG No.:	Q1984
Lab Sample ID:	PB167973BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group3
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
BP024636.D	1	05/13/25 09:05	05/15/25 13:53	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	1.40		0.023	0.13	0.17	mg/Kg
91-57-6	2-Methylnaphthalene	1.40		0.026	0.13	0.17	mg/Kg
208-96-8	Acenaphthylene	1.40		0.029	0.13	0.17	mg/Kg
83-32-9	Acenaphthene	1.40		0.021	0.13	0.17	mg/Kg
86-73-7	Fluorene	1.50		0.025	0.13	0.17	mg/Kg
85-01-8	Phenanthrene	1.50		0.021	0.13	0.17	mg/Kg
120-12-7	Anthracene	1.50		0.033	0.13	0.17	mg/Kg
206-44-0	Fluoranthene	1.50		0.030	0.13	0.17	mg/Kg
129-00-0	Pyrene	1.50		0.036	0.13	0.17	mg/Kg
56-55-3	Benzo(a)anthracene	1.50		0.023	0.13	0.17	mg/Kg
218-01-9	Chrysene	1.50		0.020	0.13	0.17	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.50		0.019	0.13	0.17	mg/Kg
207-08-9	Benzo(k)fluoranthene	1.50		0.022	0.13	0.17	mg/Kg
50-32-8	Benzo(a)pyrene	1.60		0.030	0.13	0.17	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.50		0.029	0.13	0.17	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	1.60		0.027	0.13	0.17	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.60		0.026	0.13	0.17	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	75.8		37 - 122		76%	SPK: 100
321-60-8	2-Fluorobiphenyl	74.5		44 - 115		74%	SPK: 100
1718-51-0	Terphenyl-d14	76.0		54 - 127		76%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	131000	7.646				
1146-65-2	Naphthalene-d8	538000	10.422				
15067-26-2	Acenaphthene-d10	347000	14.298				
1517-22-2	Phenanthrene-d10	706000	17.098				
1719-03-5	Chrysene-d12	797000	21.533				
1520-96-3	Perylene-d12	897000	24.827				

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

Report of Analysis

Client:	Nobis Group			Date Collected:	
Project:	Raymark Superfund Site			Date Received:	
Client Sample ID:	PB167973BS			SDG No.:	Q1984
Lab Sample ID:	PB167973BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.03	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group3
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
BP024636.D	1	05/13/25 09:05	05/15/25 13:53	PB167973

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_P\Data\BP051525\
Data File : BP024636.D
Acq On : 15 May 2025 13:53
Operator : RC/JU
Sample : PB167973BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Quant Time: May 15 14:53:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.646	152	131081	20.000	ng	-0.02
21) Naphthalene-d8	10.422	136	537517	20.000	ng	-0.01
39) Acenaphthene-d10	14.298	164	347277	20.000	ng	0.00
64) Phenanthrene-d10	17.098	188	706031	20.000	ng	0.00
76) Chrysene-d12	21.533	240	796554	20.000	ng	0.01
86) Perylene-d12	24.827	264	897451	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.275	112	1028325	134.178	ng	-0.01
7) Phenol-d6	6.840	99	1300659	132.975	ng	-0.01
23) Nitrobenzene-d5	8.799	82	806449	75.806	ng	-0.01
42) 2,4,6-Tribromophenol	15.816	330	789015	134.019	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	1973979	74.470	ng	0.00
79) Terphenyl-d14	19.827	244	3529175	75.970	ng	0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.216	88	121131	33.659	ng	98
3) Pyridine	3.605	79	290510	36.406	ng	97
4) n-Nitrosodimethylamine	3.516	42	145603	41.331	ng	94
6) Aniline	6.987	93	371995	29.457	ng	99
8) 2-Chlorophenol	7.228	128	398786	45.837	ng	99
9) Benzaldehyde	6.799	77	230797	36.451	ng	95
10) Phenol	6.869	94	467973	46.355	ng	100
11) bis(2-Chloroethyl)ether	7.081	93	326477	39.356	ng	98
12) 1,3-Dichlorobenzene	7.540	146	410853	41.046	ng	99
13) 1,4-Dichlorobenzene	7.681	146	413519	41.075	ng	99
14) 1,2-Dichlorobenzene	7.999	146	399364	40.711	ng	100
15) Benzyl Alcohol	7.893	79	332118	44.682	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.163	45	395746	39.836	ng	99
17) 2-Methylphenol	8.099	107	329941	45.567	ng	98
18) Hexachloroethane	8.710	117	157764	40.894	ng	96
19) n-Nitroso-di-n-propyla...	8.452	70	270905	40.039	ng	99
20) 3+4-Methylphenols	8.422	107	451573	45.848	ng	99
22) Acetophenone	8.463	105	567593	42.273	ng	100
24) Nitrobenzene	8.840	77	404402	43.197	ng	99
25) Isophorone	9.357	82	767868	41.611	ng	99
26) 2-Nitrophenol	9.540	139	212672	46.359	ng	97
27) 2,4-Dimethylphenol	9.610	122	380304	47.020	ng	99
28) bis(2-Chloroethoxy)met...	9.840	93	467255	42.382	ng	99
29) 2,4-Dichlorophenol	10.087	162	382143	48.756	ng	98
30) 1,2,4-Trichlorobenzene	10.287	180	381129	43.151	ng	98
31) Naphthalene	10.475	128	1179733	42.353	ng	99
32) Benzoic acid	9.775	122	262342	46.811	ng	99
33) 4-Chloroaniline	10.593	127	215778	19.197	ng	100
34) Hexachlorobutadiene	10.757	225	244032	42.650	ng	98
35) Caprolactam	11.381	113	128809	45.423	ng	97
36) 4-Chloro-3-methylphenol	11.728	107	416701	43.596	ng	100
37) 2-Methylnaphthalene	12.087	142	759040	42.084	ng	99
38) 1-Methylnaphthalene	12.310	142	813878	42.174	ng	100
40) 1,2,4,5-Tetrachloroben...	12.463	216	439636	43.595	ng	99
41) Hexachlorocyclopentadiene	12.440	237	618099	101.081	ng	97
43) 2,4,6-Trichlorophenol	12.710	196	317048	48.539	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024636.D
Acq On : 15 May 2025 13:53
Operator : RC/JU
Sample : PB167973BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Quant Time: May 15 14:53:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

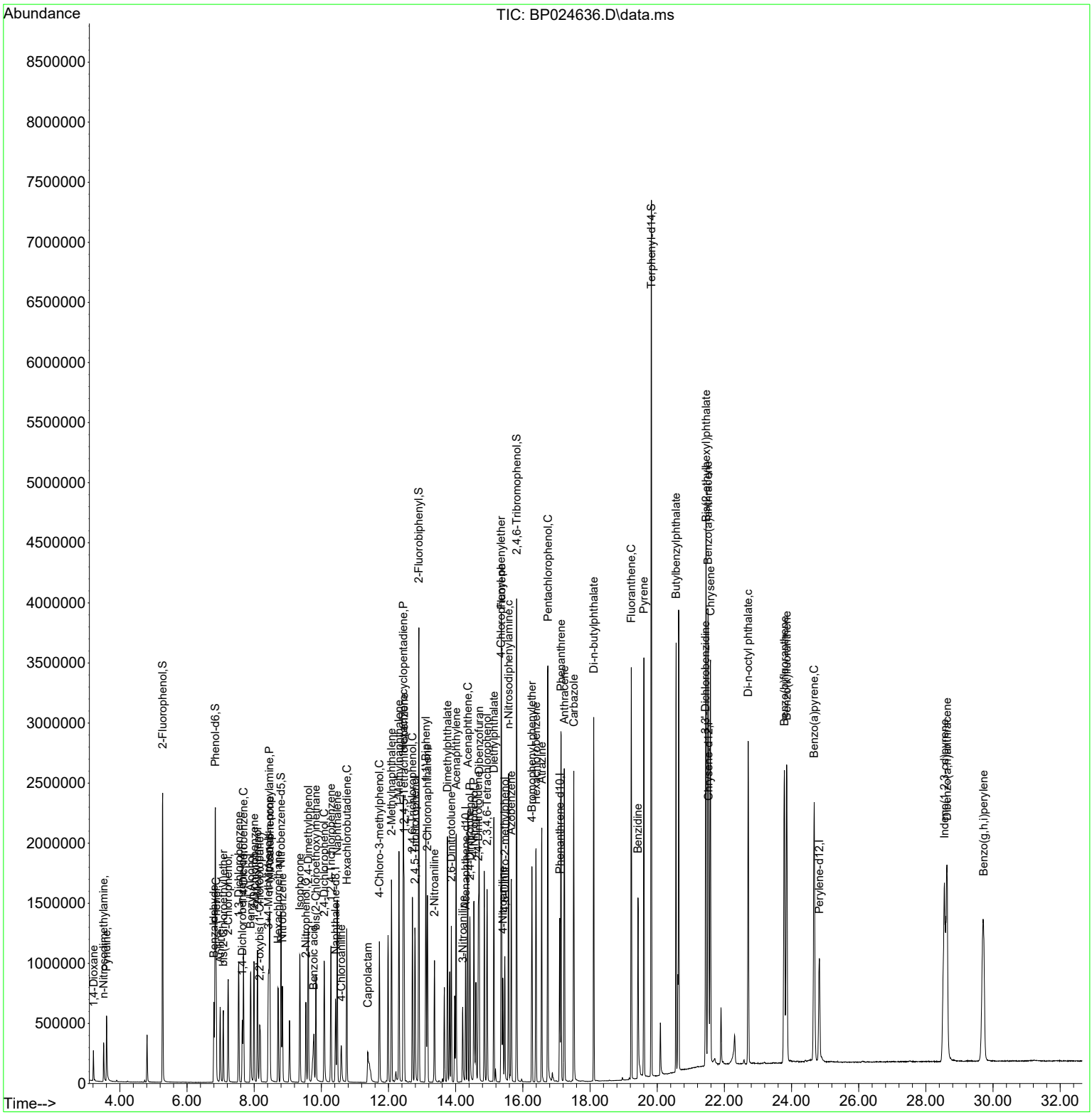
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.787	196	355418	48.883	ng	98
46) 1,1'-Biphenyl	13.110	154	1087547	42.370	ng	99
47) 2-Chloronaphthalene	13.157	162	830827	42.452	ng	100
48) 2-Nitroaniline	13.369	65	261668	45.161	ng	98
49) Acenaphthylene	14.016	152	1399482	42.731	ng	100
50) Dimethylphthalate	13.757	163	1142335	43.156	ng	100
51) 2,6-Dinitrotoluene	13.869	165	252742	45.211	ng	97
52) Acenaphthene	14.363	154	813698	43.217	ng	99
53) 3-Nitroaniline	14.210	138	171345	30.018	ng	98
54) 2,4-Dinitrophenol	14.428	184	327717	91.929	ng	97
55) Dibenzofuran	14.698	168	1314124	43.757	ng	99
56) 4-Nitrophenol	14.545	139	454745	91.385	ng	98
57) 2,4-Dinitrotoluene	14.675	165	364632	46.266	ng	98
58) Fluorene	15.363	166	1086996	44.389	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.934	232	316831	46.974	ng	100
60) Diethylphthalate	15.139	149	1184435	44.273	ng	99
61) 4-Chlorophenyl-phenyle...	15.351	204	542996	44.463	ng	98
62) 4-Nitroaniline	15.404	138	262574	47.641	ng	98
63) Azobenzene	15.657	77	1009501	44.109	ng	98
65) 4,6-Dinitro-2-methylph...	15.463	198	216160	47.398	ng	99
66) n-Nitrosodiphenylamine	15.575	169	961865	44.353	ng	99
67) 4-Bromophenyl-phenylether	16.269	248	372135	44.731	ng	99
68) Hexachlorobenzene	16.392	284	458305	43.353	ng	100
69) Atrazine	16.563	200	368913	46.419	ng	99
70) Pentachlorophenol	16.745	266	625082	105.335	ng	98
71) Phenanthrene	17.139	178	1720387	43.832	ng	100
72) Anthracene	17.233	178	1747224	44.246	ng	99
73) Carbazole	17.516	167	1617275	45.249	ng	100
74) Di-n-butylphthalate	18.110	149	2121998	46.164	ng	99
75) Fluoranthene	19.227	202	2040733	44.480	ng	100
77) Benzidine	19.427	184	994653	45.847	ng	99
78) Pyrene	19.604	202	2127702	44.580	ng	100
80) Butylbenzylphthalate	20.563	149	1012695	47.709	ng	97
81) Benzo(a)anthracene	21.516	228	2231437	44.614	ng	100
82) 3,3'-Dichlorobenzidine	21.439	252	558851	30.082	ng	99
83) Chrysene	21.586	228	2076892	43.804	ng	100
84) Bis(2-ethylhexyl)phtha...	21.457	149	1465106	46.960	ng	99
85) Di-n-octyl phthalate	22.710	149	2468875	48.391	ng	100
87) Indeno(1,2,3-cd)pyrene	28.550	276	3039943m	46.398	ng	
88) Benzo(b)fluoranthene	23.786	252	2337855	45.511	ng	99
89) Benzo(k)fluoranthene	23.857	252	2439419	46.086	ng	100
90) Benzo(a)pyrene	24.674	252	2298890	46.597	ng	99
91) Dibenzo(a,h)anthracene	28.627	278	2519774	47.273	ng	99
92) Benzo(g,h,i)perylene	29.715	276	2499215	47.150	ng	99

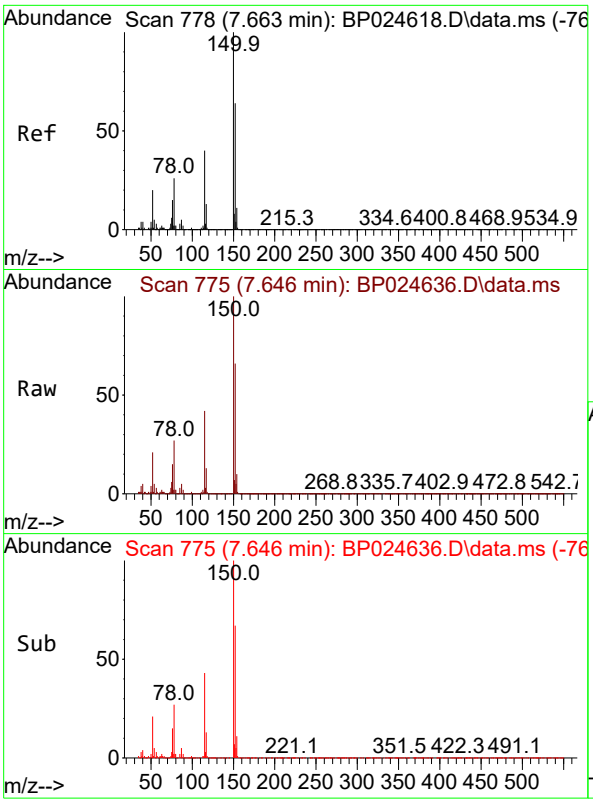
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024636.D
Acq On : 15 May 2025 13:53
Operator : RC/JU
Sample : PB167973BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Quant Time: May 15 14:53:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



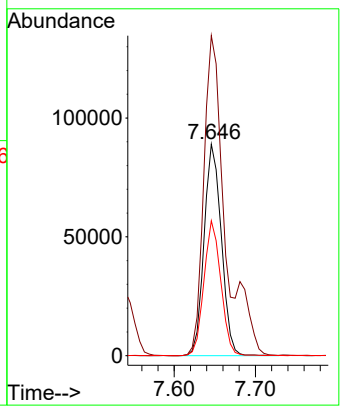


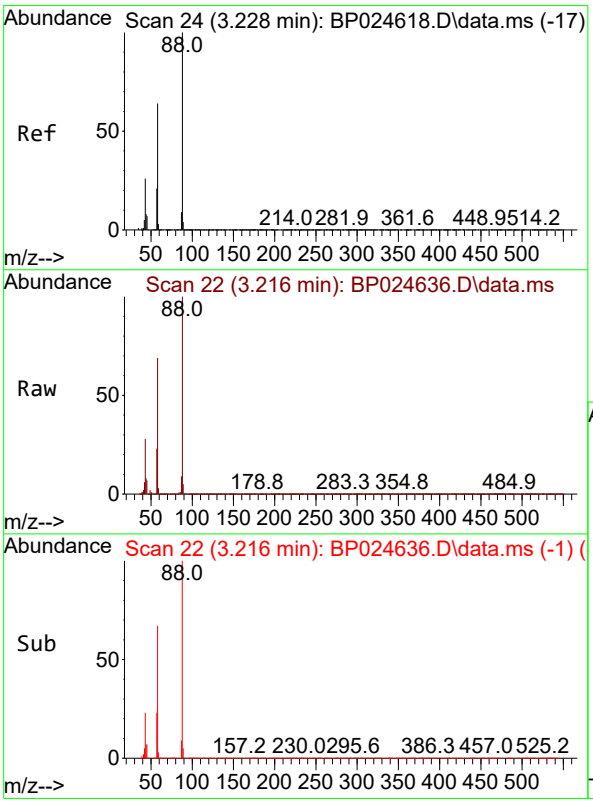
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.646 min Scan# 7
Delta R.T. -0.017 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:152 Resp: 131081

Ion	Ratio	Lower	Upper
152	100		
150	151.3	125.9	188.9
115	63.8	50.1	75.1

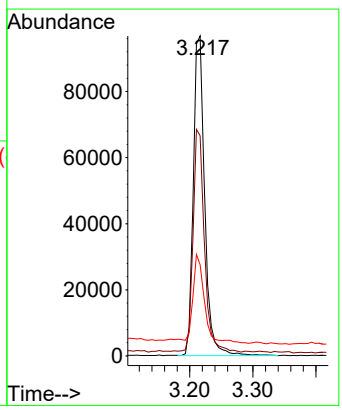


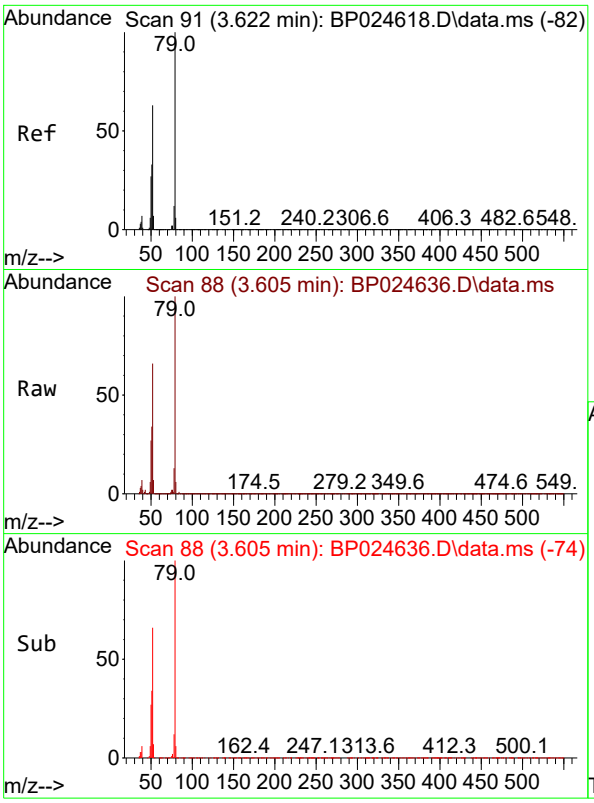


#2
1,4-Dioxane
Concen: 33.659 ng
RT: 3.216 min Scan# 22
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 88 Resp: 121131

Ion	Ratio	Lower	Upper
88	100		
58	69.2	54.0	81.0
43	28.1	21.4	32.0



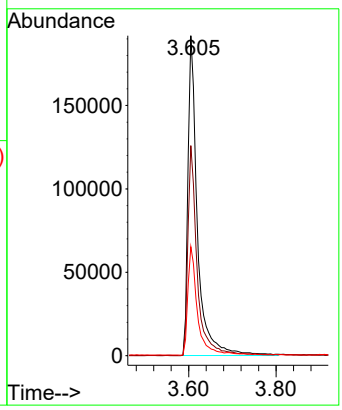


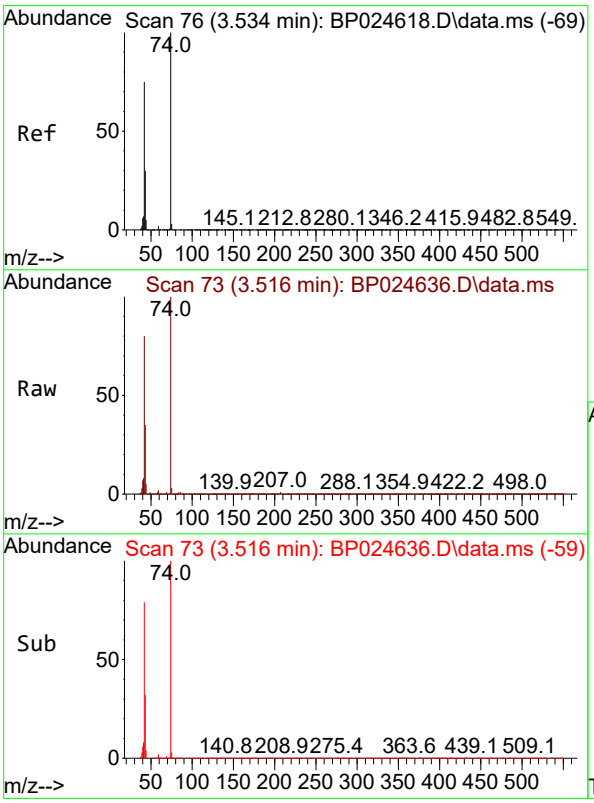
#3
Pyridine
Concen: 36.406 ng
RT: 3.605 min Scan# 8
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 79 Resp: 290510

Ion	Ratio	Lower	Upper
79	100		
52	65.6	50.2	75.2
51	34.0	26.8	40.2

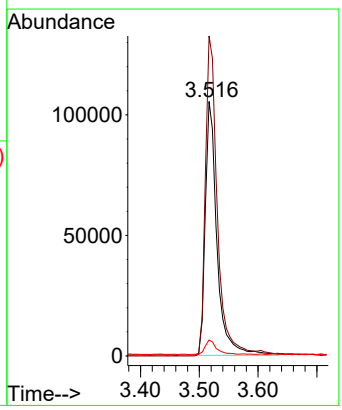


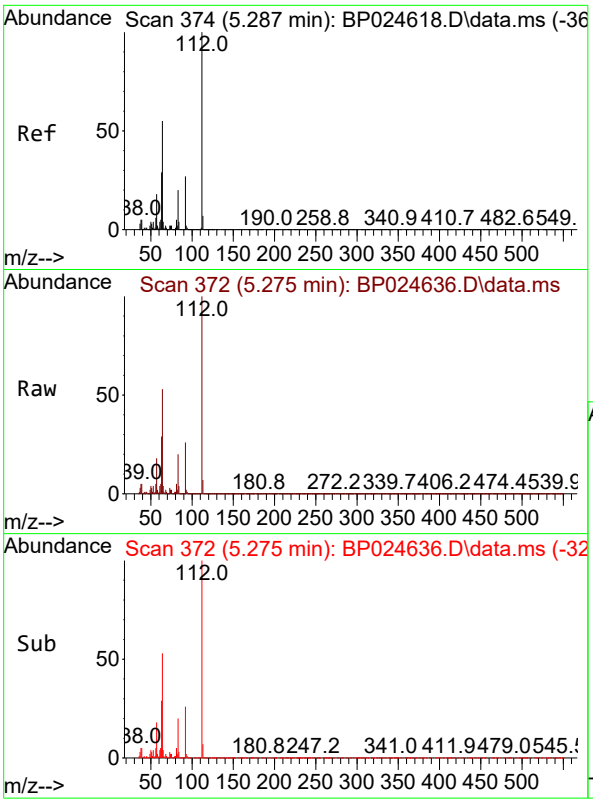


#4
n-Nitrosodimethylamine
Concen: 41.331 ng
RT: 3.516 min Scan# 73
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 42 Resp: 145603

Ion	Ratio	Lower	Upper
42	100		
74	125.7	106.2	159.2
44	6.3	5.4	8.2



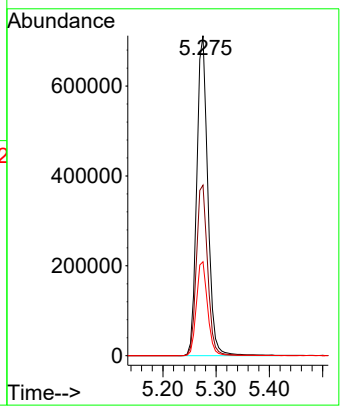


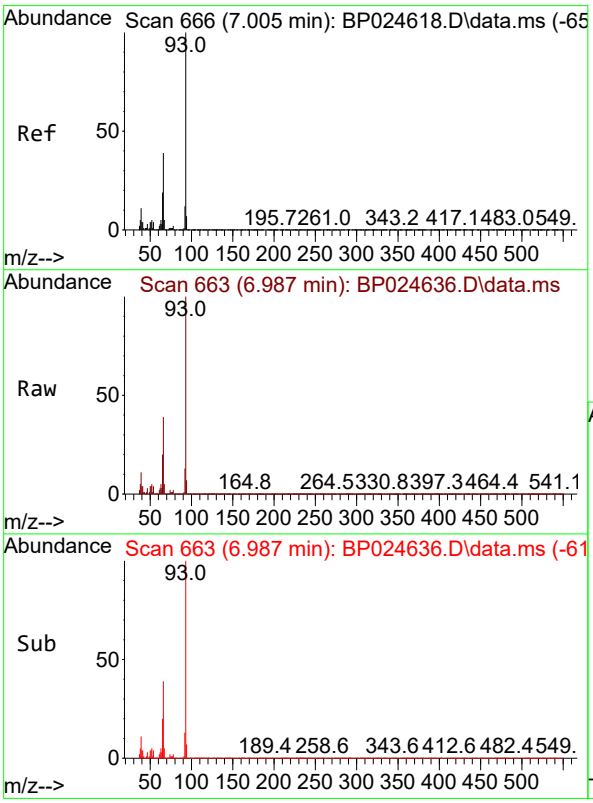
#5
2-Fluorophenol
Concen: 134.178 ng
RT: 5.275 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:112 Resp: 1028325

Ion	Ratio	Lower	Upper
112	100		
64	53.3	44.1	66.1
63	29.3	23.5	35.3

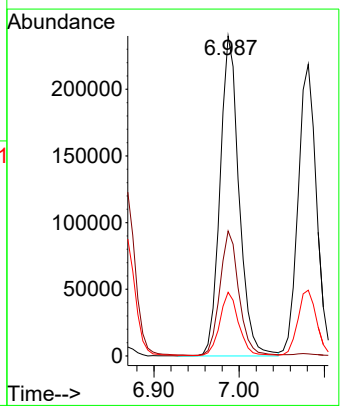


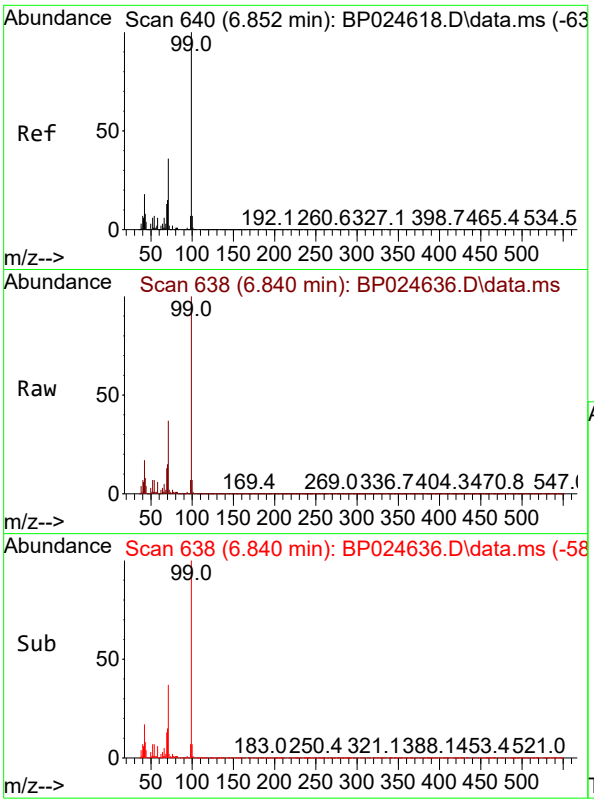


#6
Aniline
Concen: 29.457 ng
RT: 6.987 min Scan# 663
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 93 Resp: 371995

Ion	Ratio	Lower	Upper
93	100		
66	39.0	31.0	46.6
65	19.9	15.5	23.3



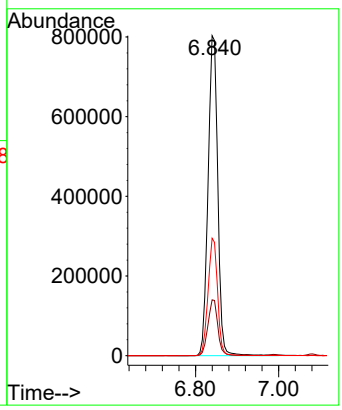


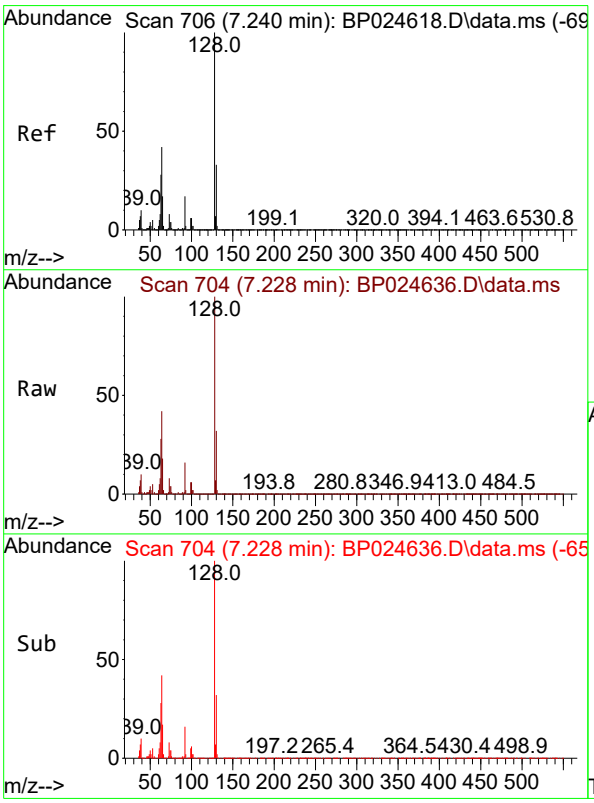
#7
Phenol-d6
Concen: 132.975 ng
RT: 6.840 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 99 Resp: 1300659

Ion	Ratio	Lower	Upper
99	100		
42	17.4	14.4	21.6
71	36.7	29.2	43.8

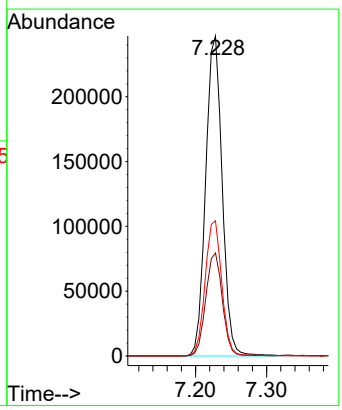


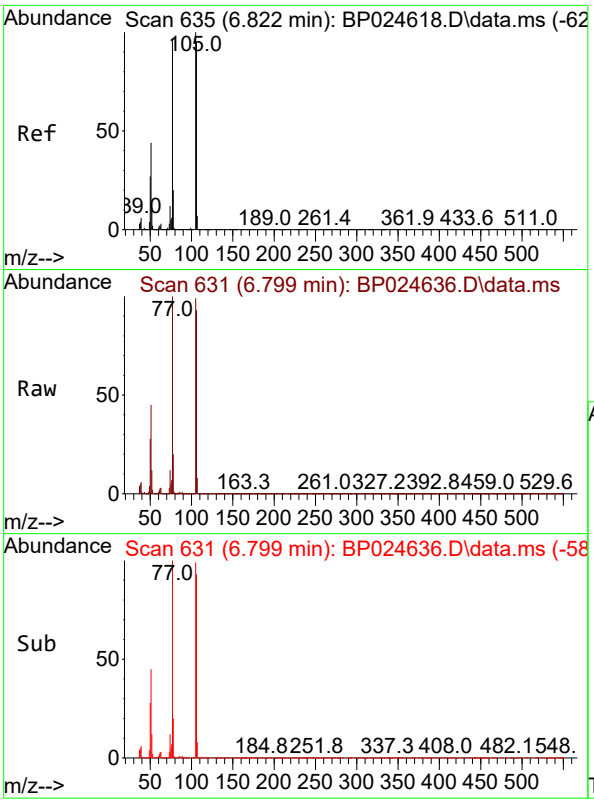


#8
2-Chlorophenol
Concen: 45.837 ng
RT: 7.228 min Scan# 704
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:128 Resp: 398786

Ion	Ratio	Lower	Upper
128	100		
130	32.2	13.0	53.0
64	42.3	22.3	62.3



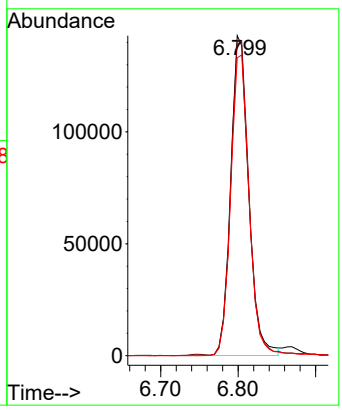


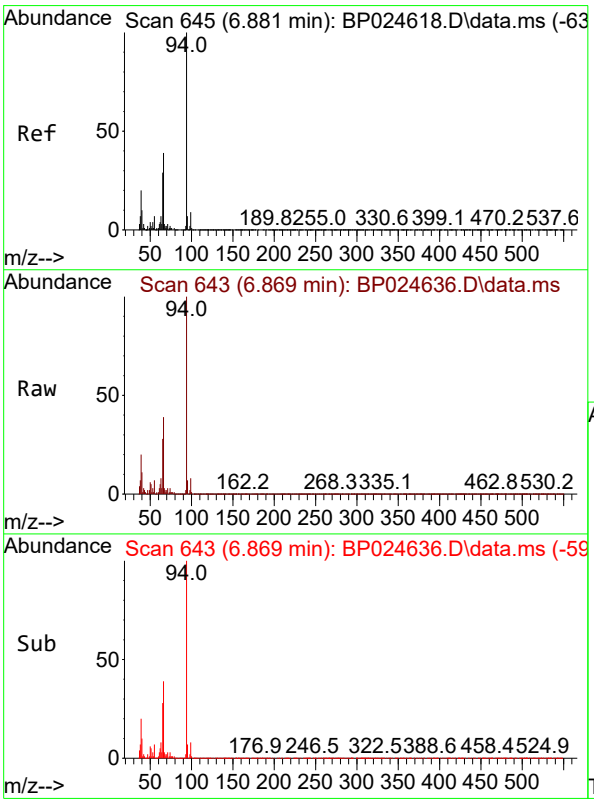
#9
Benzaldehyde
Concen: 36.451 ng
RT: 6.799 min Scan# 6
Delta R.T. -0.024 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 77 Resp: 230797

Ion	Ratio	Lower	Upper
77	100		
105	98.5	83.3	123.3
106	93.1	78.0	118.0

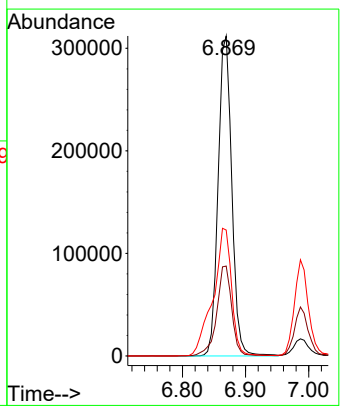


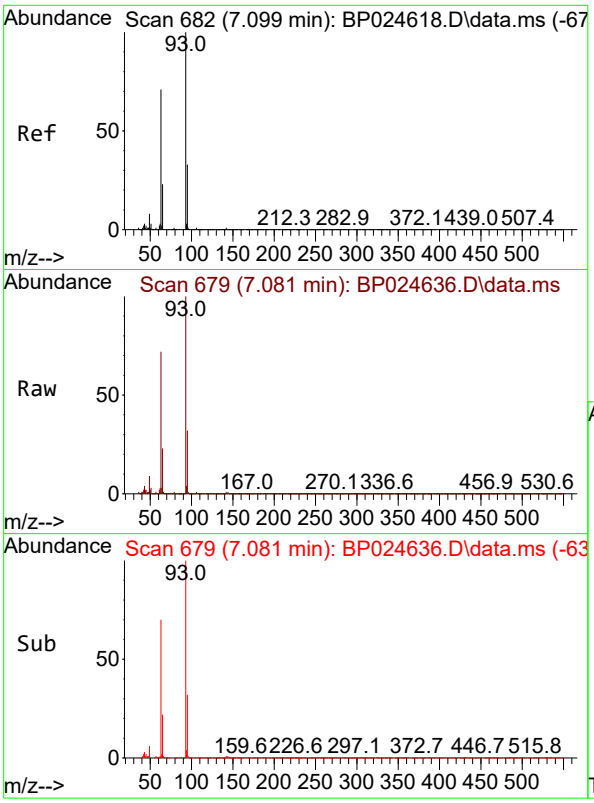


#10
Phenol
Concen: 46.355 ng
RT: 6.869 min Scan# 643
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 94 Resp: 467973

Ion	Ratio	Lower	Upper
94	100		
65	28.1	8.7	48.7
66	39.4	19.4	59.4



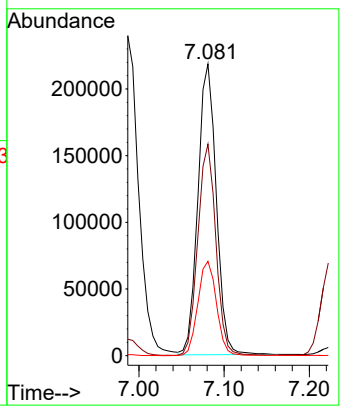


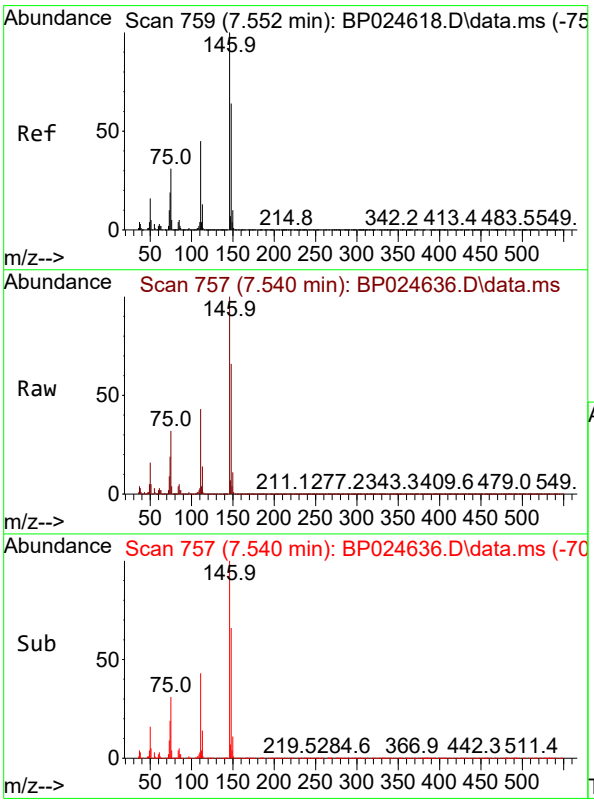
#11
bis(2-Chloroethyl)ether
Concen: 39.356 ng
RT: 7.081 min Scan# 6
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 93 Resp: 326477

Ion	Ratio	Lower	Upper
93	100		
63	72.5	50.6	90.6
95	32.3	12.9	52.9

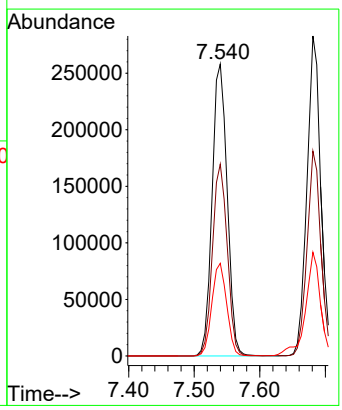


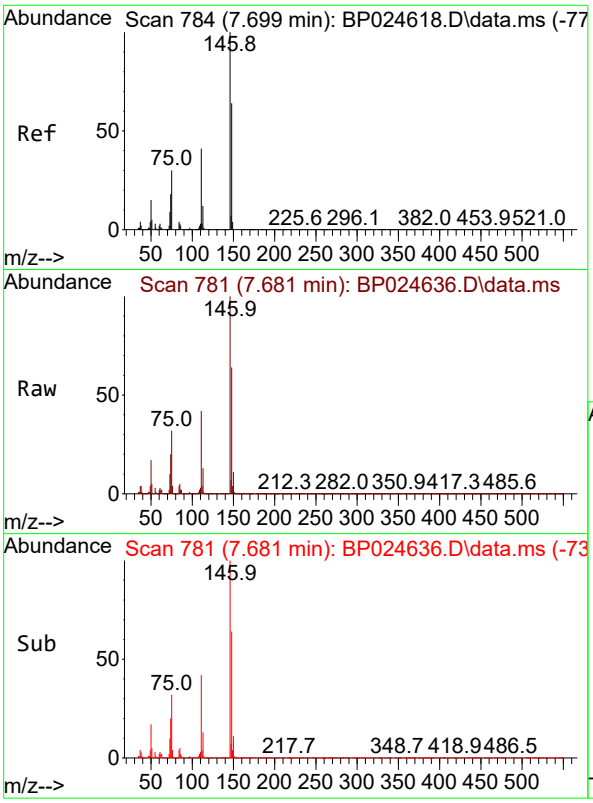


#12
1,3-Dichlorobenzene
Concen: 41.046 ng
RT: 7.540 min Scan# 757
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:146 Resp: 410853

Ion	Ratio	Lower	Upper
146	100		
148	65.7	51.4	77.2
75	31.7	25.2	37.8



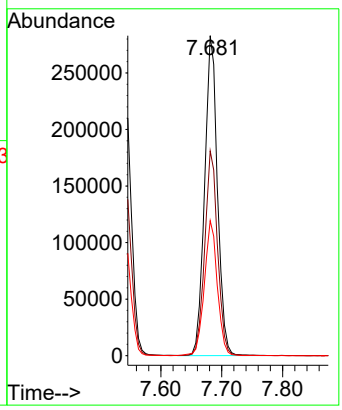


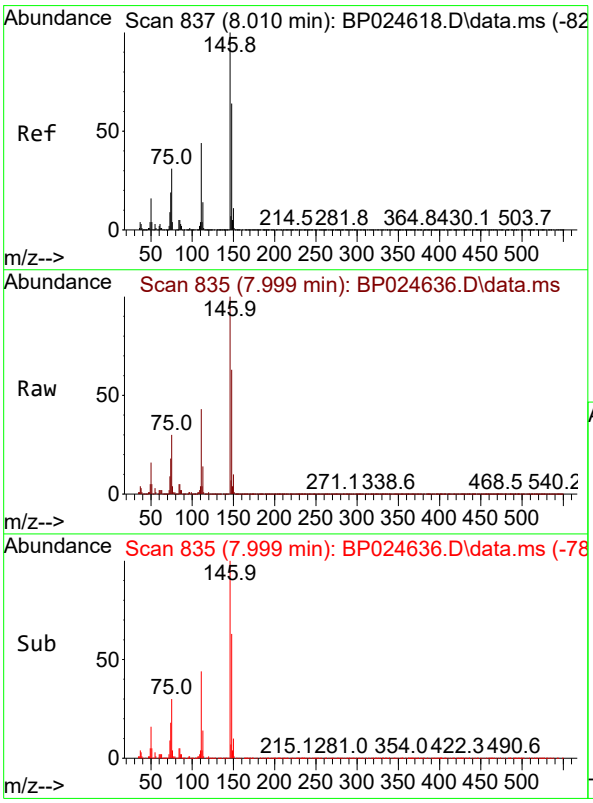
#13
1,4-Dichlorobenzene
Concen: 41.075 ng
RT: 7.681 min Scan# 7
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:146 Resp: 413519

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.0	76.6
111	42.2	33.0	49.6

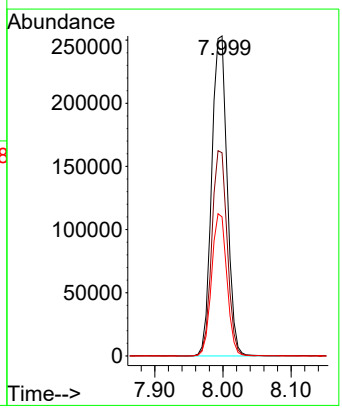


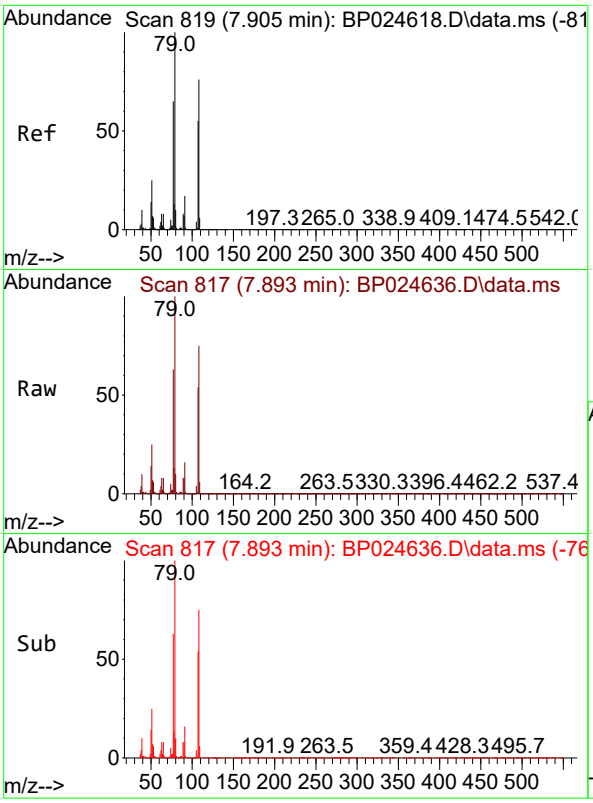


#14
1,2-Dichlorobenzene
Concen: 40.711 ng
RT: 7.999 min Scan# 835
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:146 Resp: 399364

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.0	76.4
111	43.5	35.2	52.8



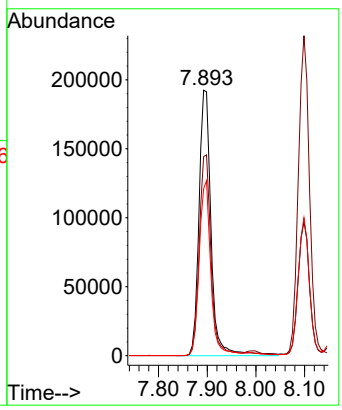


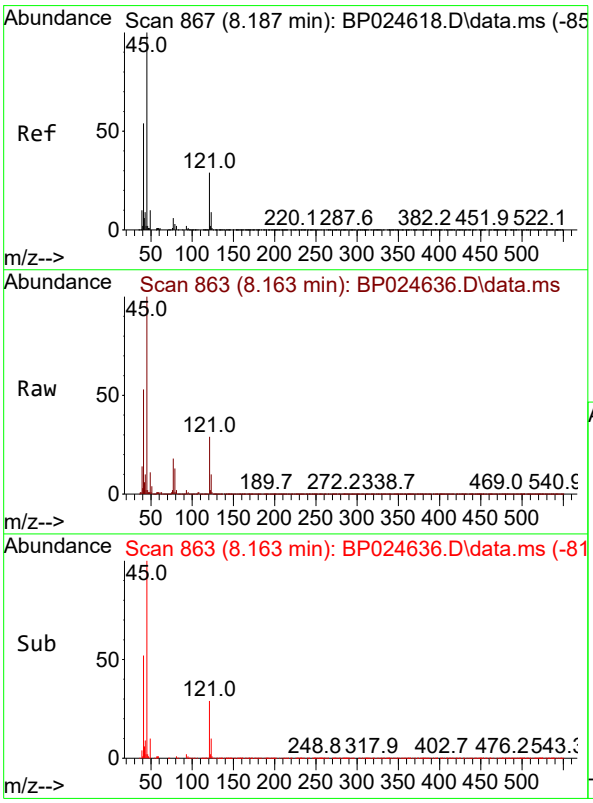
#15
Benzyl Alcohol
Concen: 44.682 ng
RT: 7.893 min Scan# 81
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 79 Resp: 332118

Ion	Ratio	Lower	Upper
79	100		
108	75.0	60.8	91.2
77	62.9	51.9	77.9

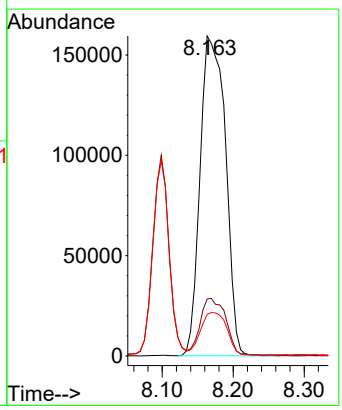


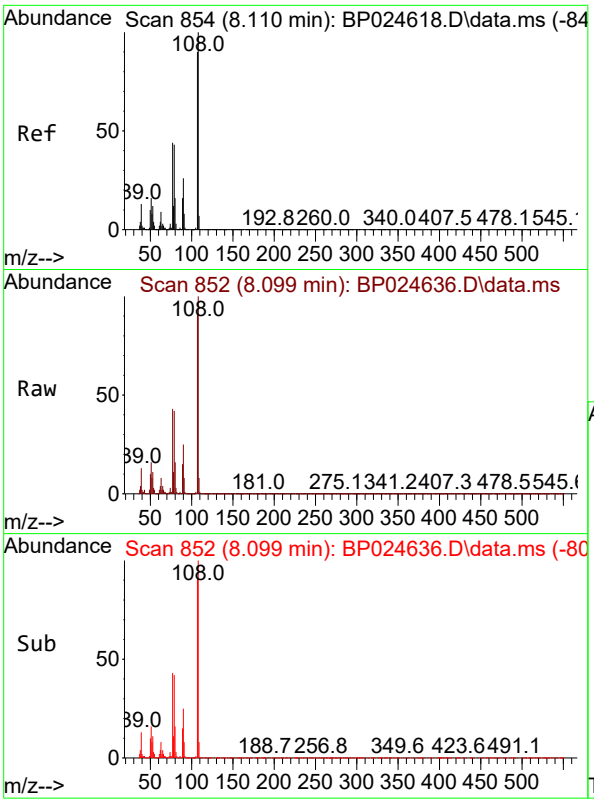


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.836 ng
RT: 8.163 min Scan# 863
Delta R.T. -0.024 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 45 Resp: 395746

Ion	Ratio	Lower	Upper
45	100		
77	17.8	0.0	37.7
79	13.0	0.0	34.0



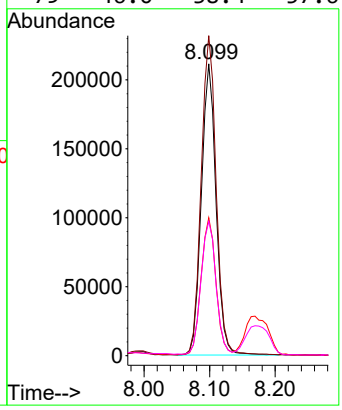


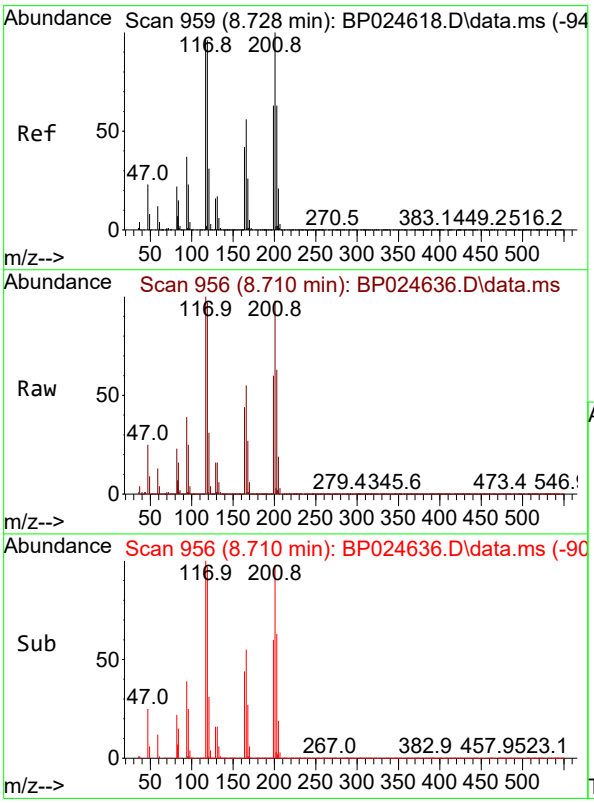
#17
2-Methylphenol
Concen: 45.567 ng
RT: 8.099 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:107 Resp: 329941

Ion	Ratio	Lower	Upper
107	100		
108	109.6	88.9	133.3
77	47.2	39.0	58.6
79	46.0	38.4	57.6

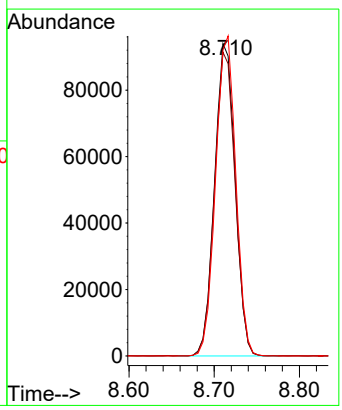


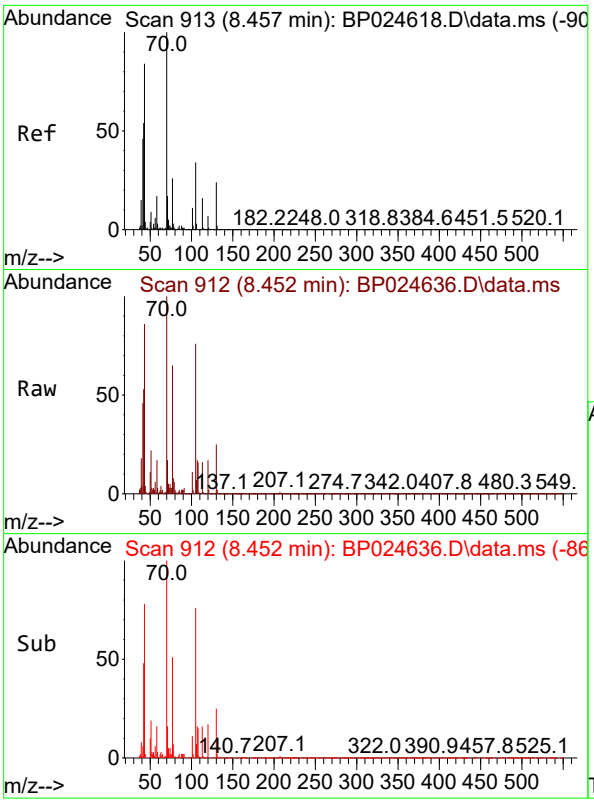


#18
Hexachloroethane
Concen: 40.894 ng
RT: 8.710 min Scan# 956
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:117 Resp: 157764

Ion	Ratio	Lower	Upper
117	100		
119	97.3	79.4	119.0
201	98.0	82.7	124.1



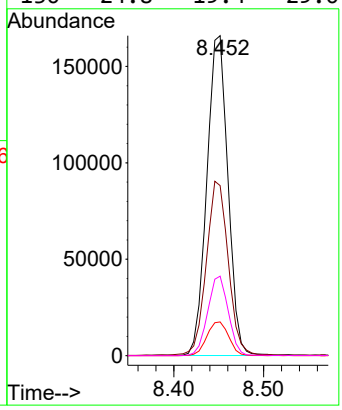


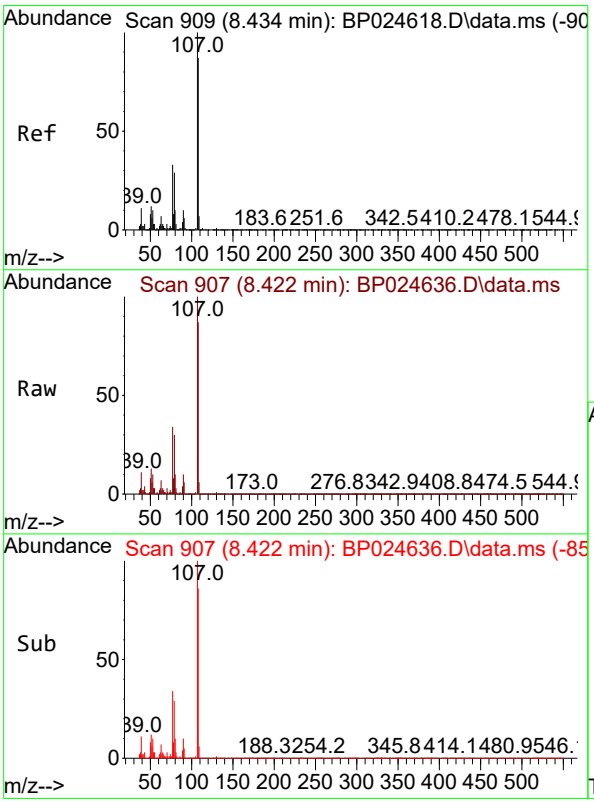
#19
n-Nitroso-di-n-propylamine
Concen: 40.039 ng
RT: 8.452 min Scan# 91
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 70 Resp: 270905

Ion	Ratio	Lower	Upper
70	100		
42	53.1	43.0	64.6
101	10.6	8.7	13.1
130	24.8	19.4	29.0

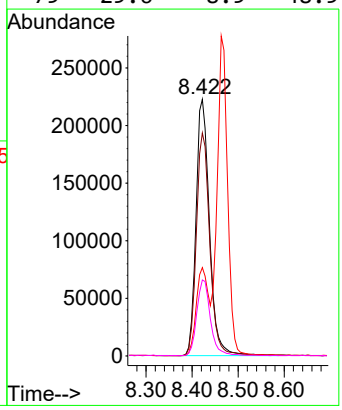


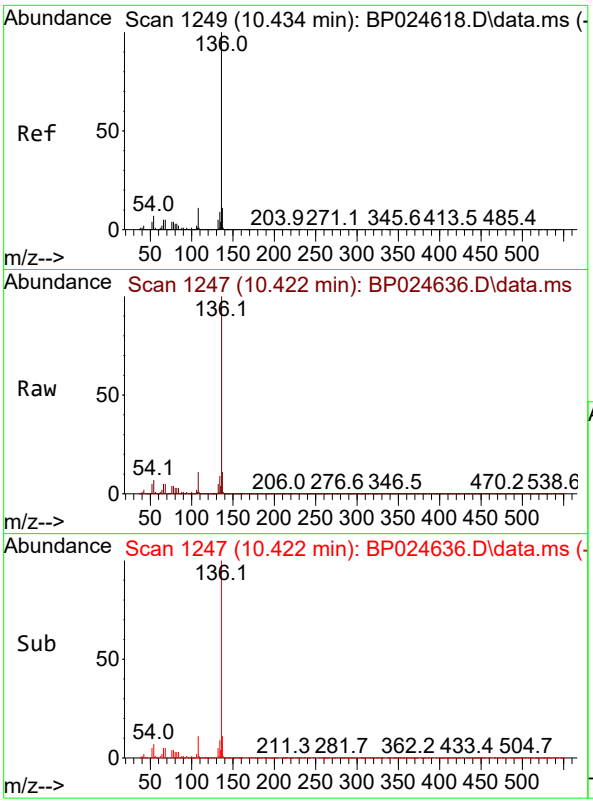


#20
3+4-Methylphenols
Concen: 45.848 ng
RT: 8.422 min Scan# 907
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:107 Resp: 451573

Ion	Ratio	Lower	Upper
107	100		
108	86.9	66.7	106.7
77	34.4	13.1	53.1
79	29.6	8.9	48.9



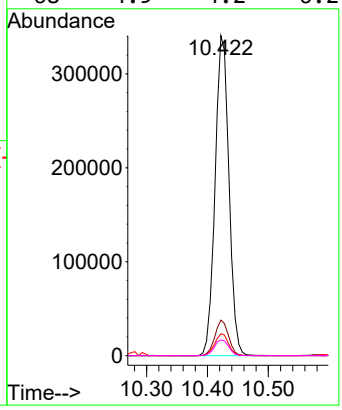


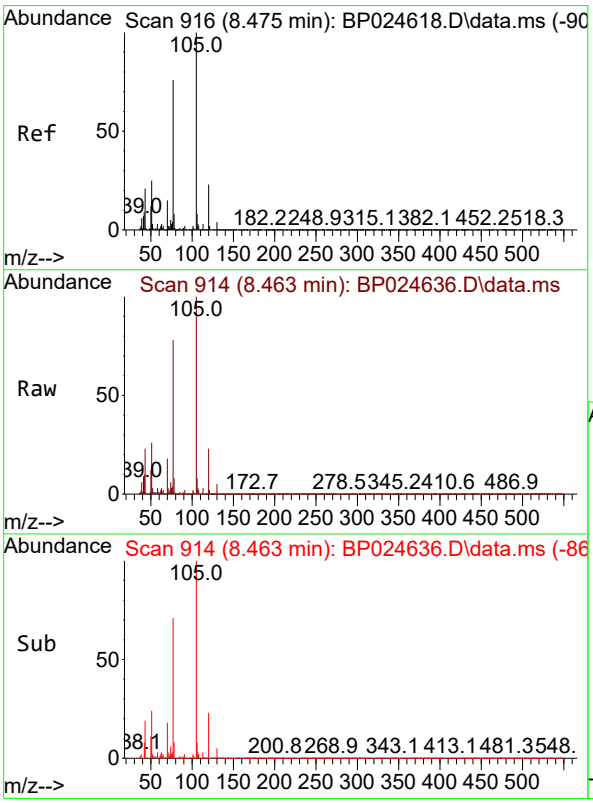
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:136 Resp: 537517

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.8	13.2
54	6.9	5.5	8.3
68	4.9	4.2	6.2

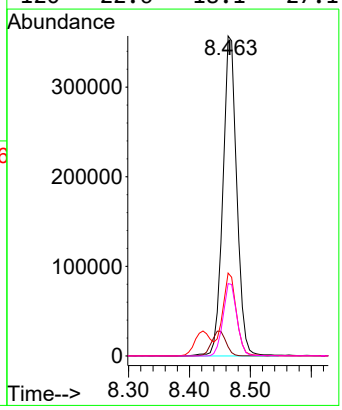


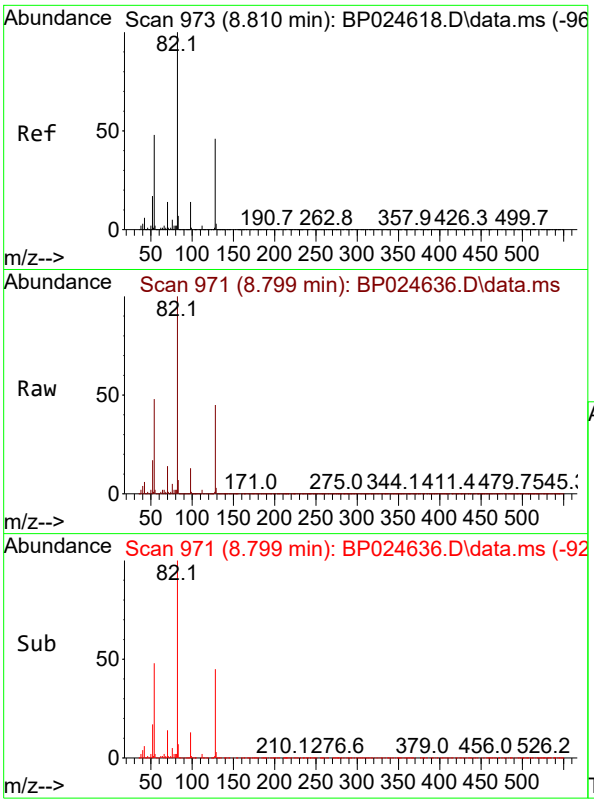


#22
Acetophenone
Concen: 42.273 ng
RT: 8.463 min Scan# 914
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:105 Resp: 567593

Ion	Ratio	Lower	Upper
105	100		
71	2.8	2.0	3.0
51	25.9	20.4	30.6
120	22.6	18.1	27.1



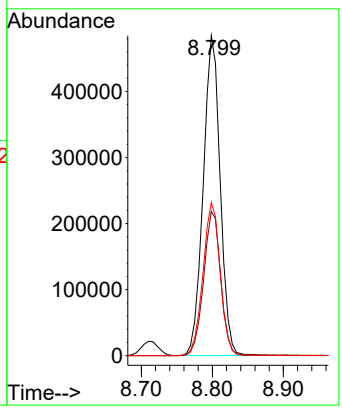


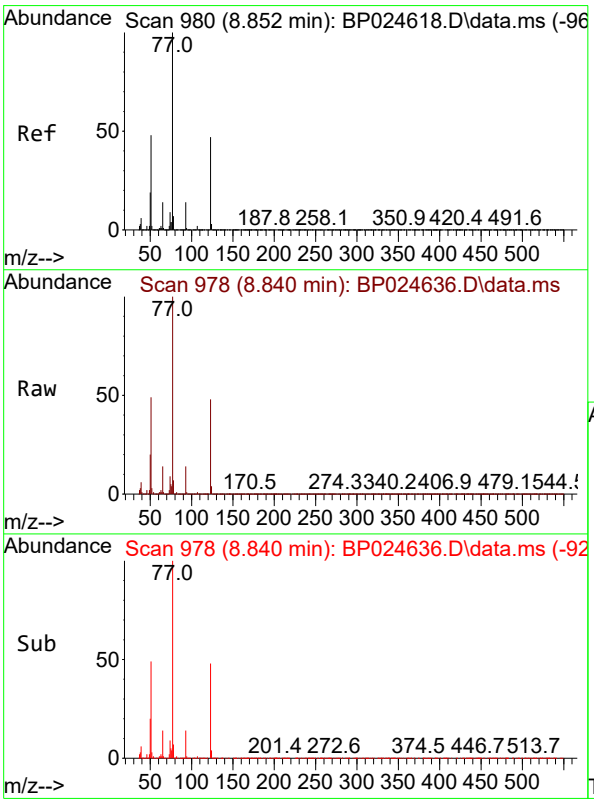
#23
Nitrobenzene-d5
Concen: 75.806 ng
RT: 8.799 min Scan# 9
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 82 Resp: 806449

Ion	Ratio	Lower	Upper
82	100		
128	45.0	37.0	55.4
54	47.8	38.7	58.1

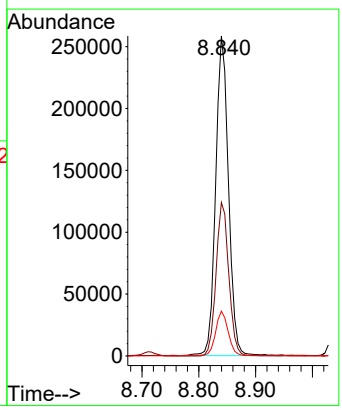


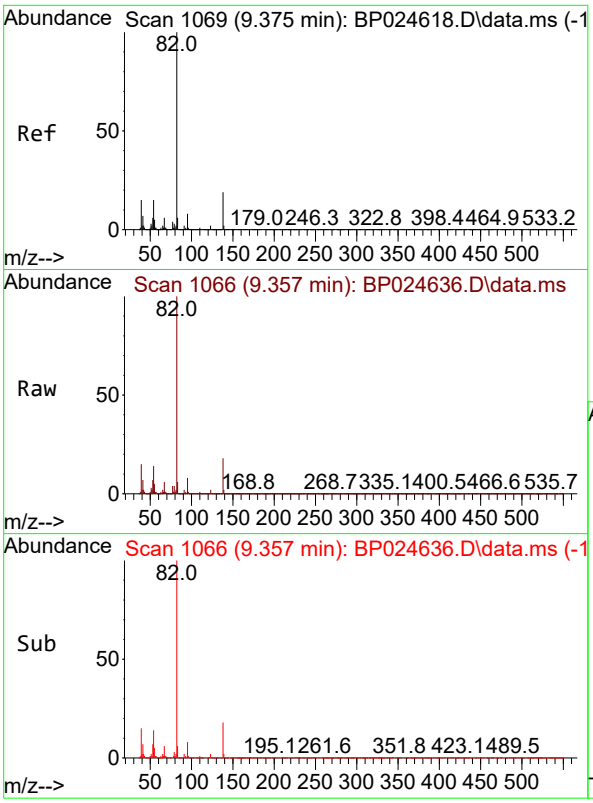


#24
Nitrobenzene
Concen: 43.197 ng
RT: 8.840 min Scan# 978
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 77 Resp: 404402

Ion	Ratio	Lower	Upper
77	100		
123	47.9	37.4	56.0
65	14.0	11.3	16.9



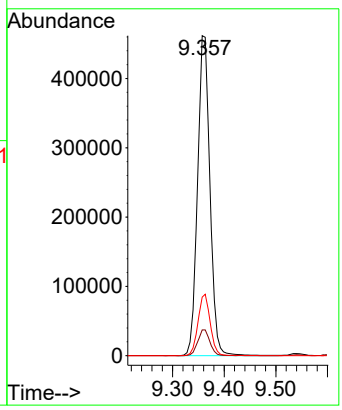


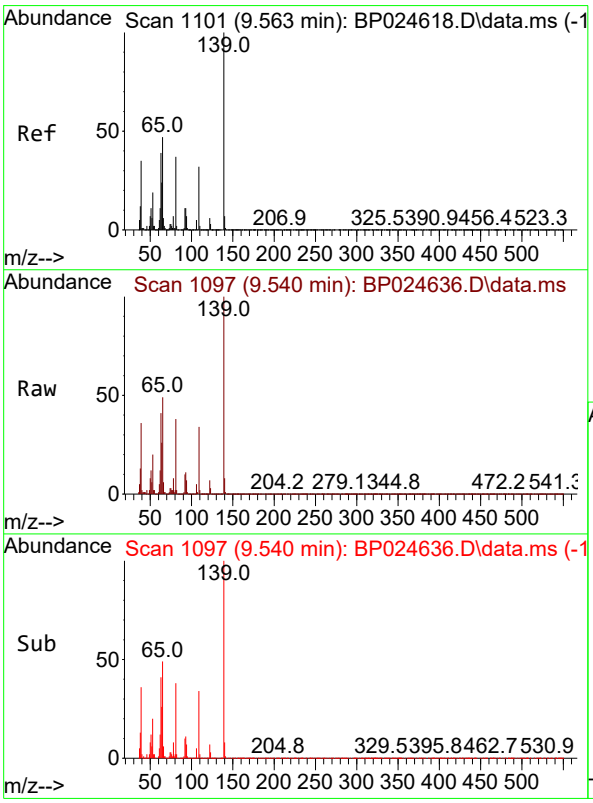
#25
Isophorone
Concen: 41.611 ng
RT: 9.357 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 82 Resp: 767868

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.3	9.5
138	18.3	15.3	22.9

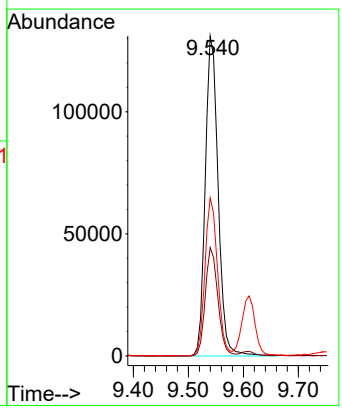


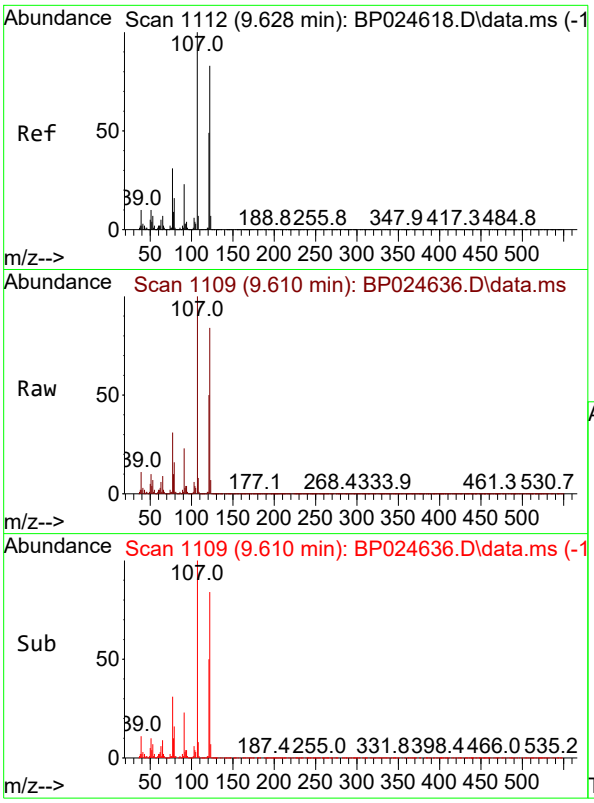


#26
2-Nitrophenol
Concen: 46.359 ng
RT: 9.540 min Scan# 1097
Delta R.T. -0.024 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:139 Resp: 212672

Ion	Ratio	Lower	Upper
139	100		
109	33.8	25.9	38.9
65	49.4	37.9	56.9



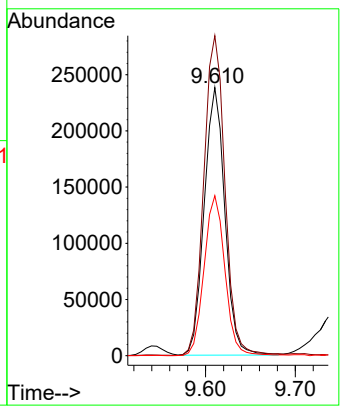


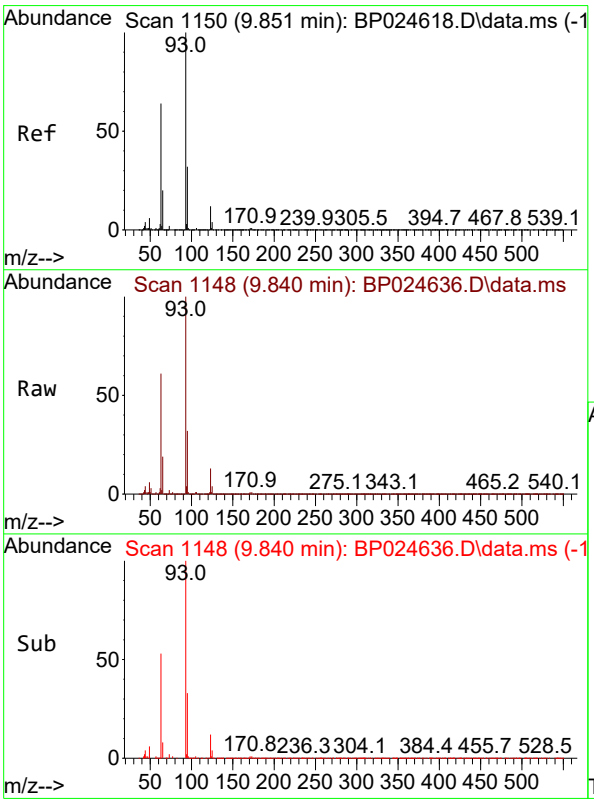
#27
2,4-Dimethylphenol
Concen: 47.020 ng
RT: 9.610 min Scan# 11
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:122 Resp: 380304

Ion	Ratio	Lower	Upper
122	100		
107	119.3	96.2	144.2
121	59.7	47.6	71.4

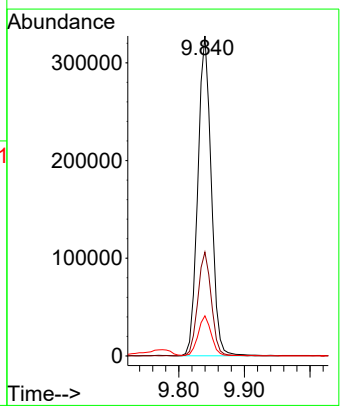


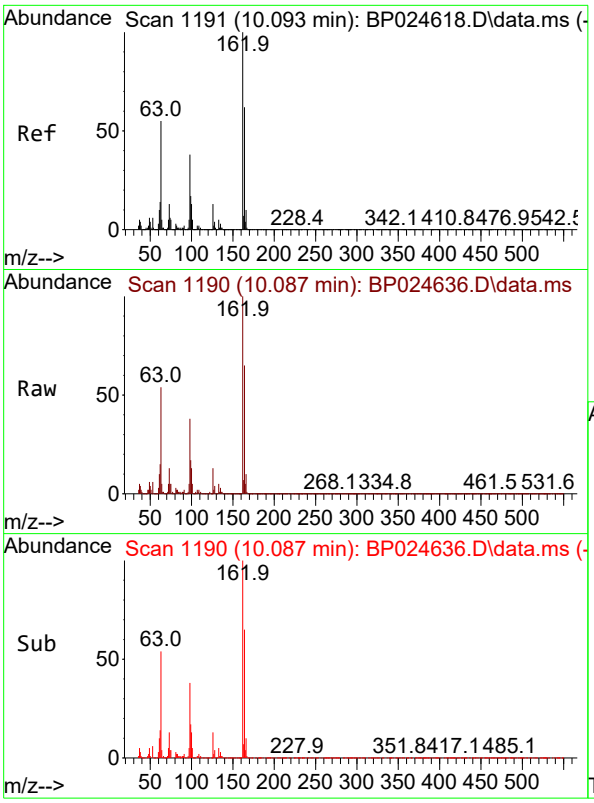


#28
bis(2-Chloroethoxy)methane
Concen: 42.382 ng
RT: 9.840 min Scan# 1148
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 93 Resp: 467255

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.5	38.3
123	12.5	9.7	14.5



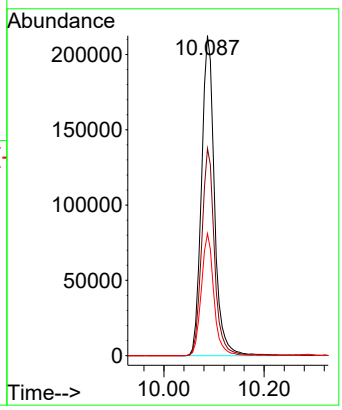


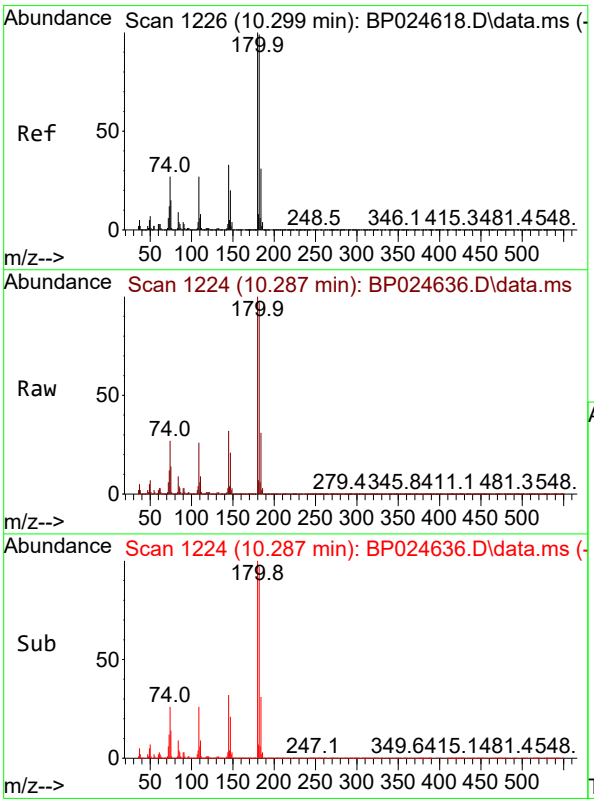
#29
2,4-Dichlorophenol
Concen: 48.756 ng
RT: 10.087 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:162 Resp: 382143

Ion	Ratio	Lower	Upper
162	100		
164	64.8	42.3	82.3
98	38.1	18.4	58.4

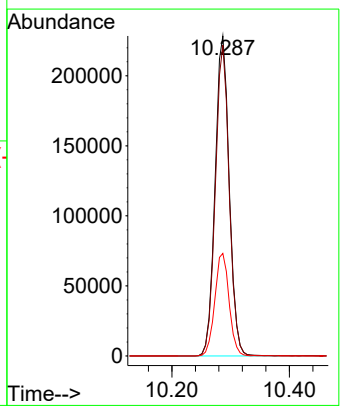


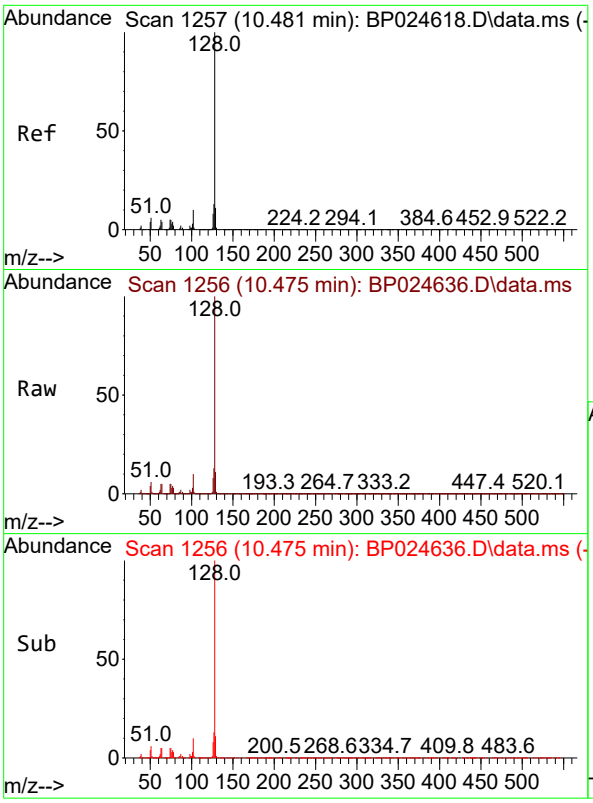


#30
1,2,4-Trichlorobenzene
Concen: 43.151 ng
RT: 10.287 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:180 Resp: 381129

Ion	Ratio	Lower	Upper
180	100		
182	97.1	79.0	118.4
145	32.1	26.6	39.8



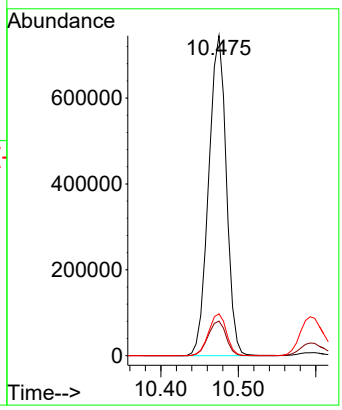


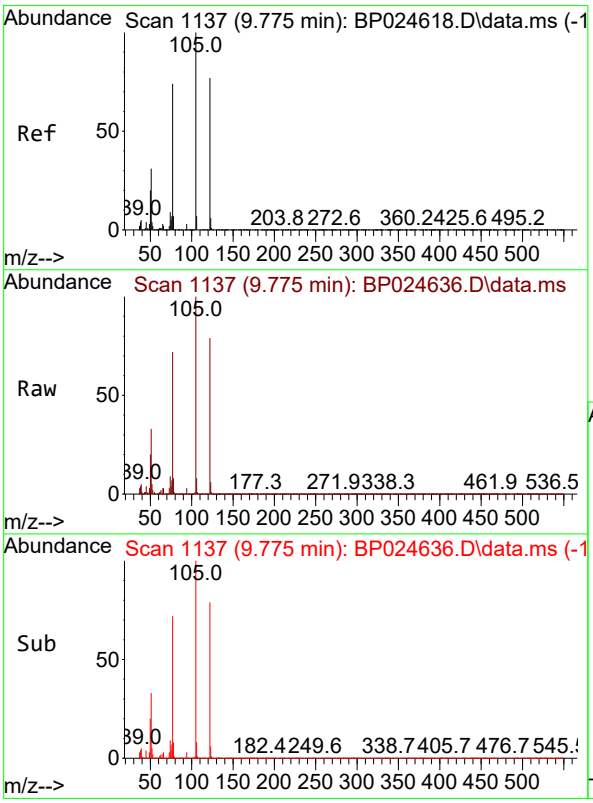
#31
Naphthalene
Concen: 42.353 ng
RT: 10.475 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:128 Resp: 1179733

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	13.1	10.7	16.1

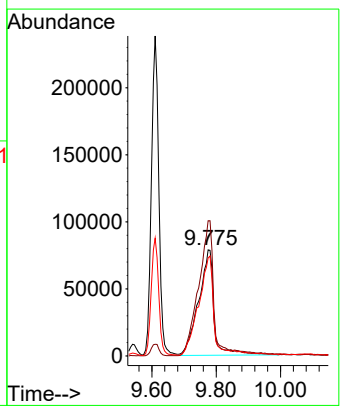


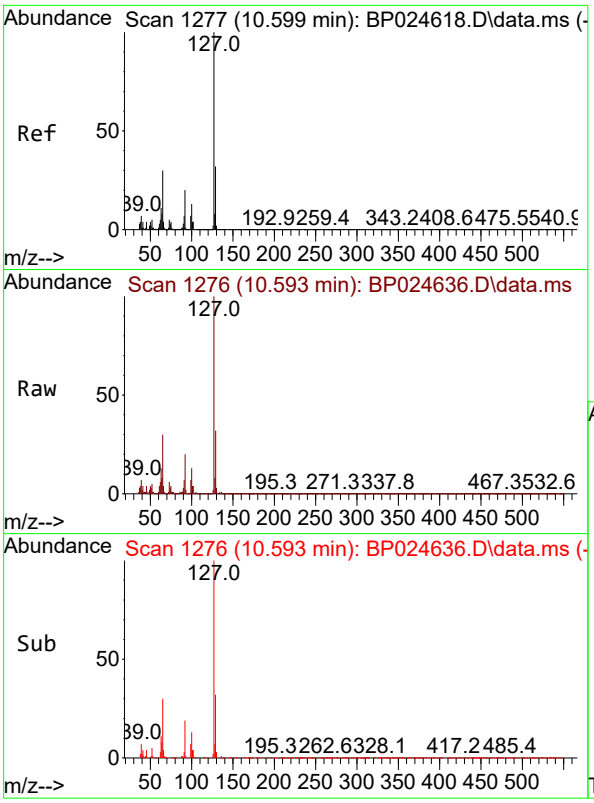


#32
Benzoic acid
Concen: 46.811 ng
RT: 9.775 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:122 Resp: 262342

Ion	Ratio	Lower	Upper
122	100		
105	127.4	106.9	146.9
77	92.3	75.1	115.1



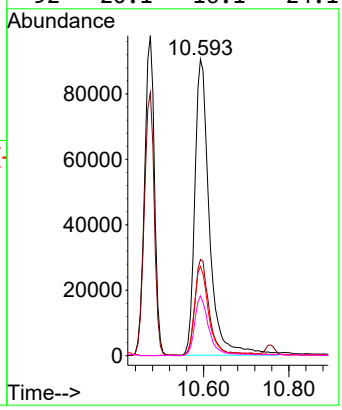


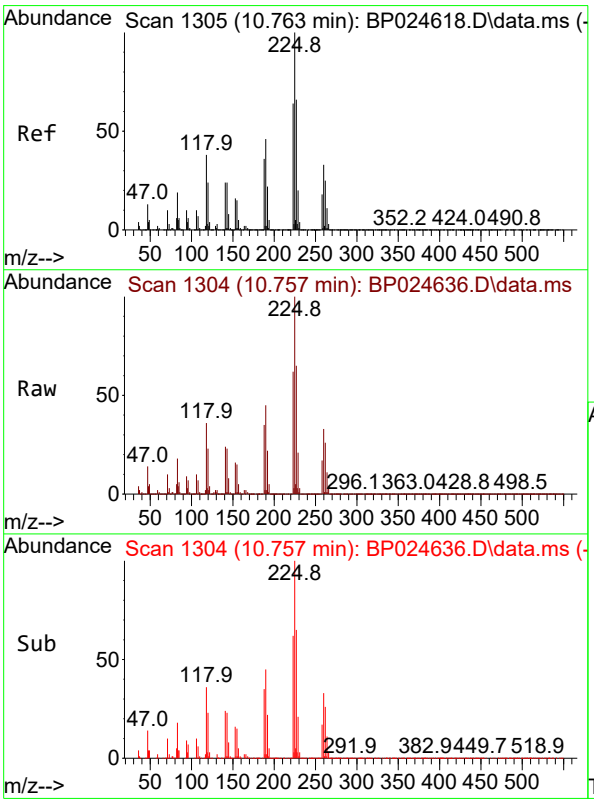
#33
4-Chloroaniline
Concen: 19.197 ng
RT: 10.593 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:127 Resp: 215778

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.8	38.6
65	30.0	23.9	35.9
92	20.1	16.1	24.1

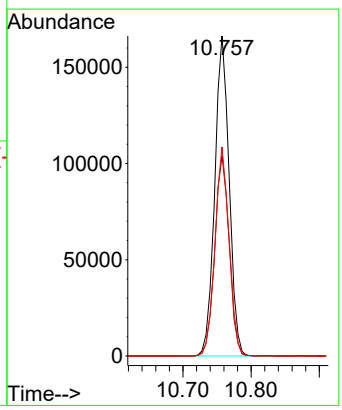


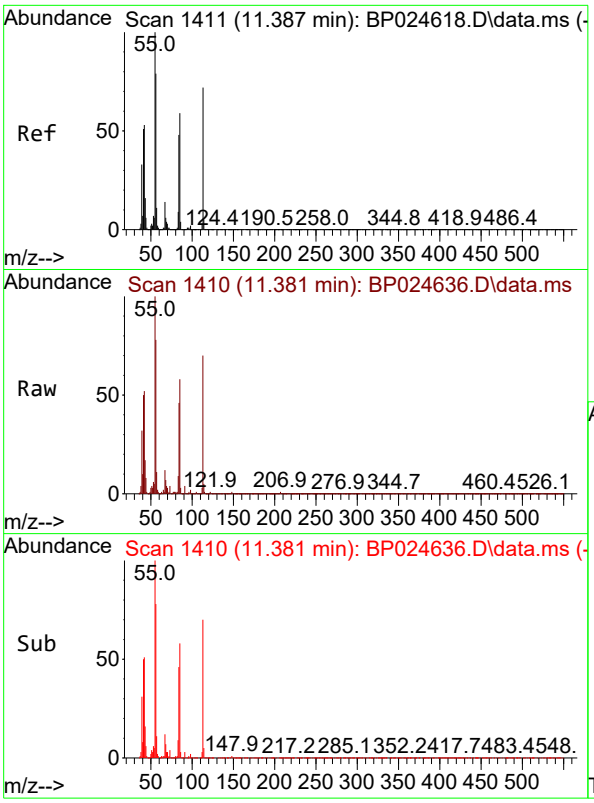


#34
Hexachlorobutadiene
Concen: 42.650 ng
RT: 10.757 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:225 Resp: 244032

Ion	Ratio	Lower	Upper
225	100		
223	62.5	51.0	76.6
227	65.3	53.1	79.7



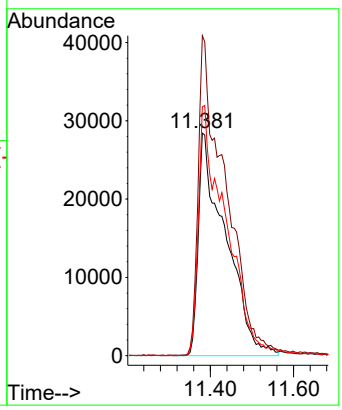


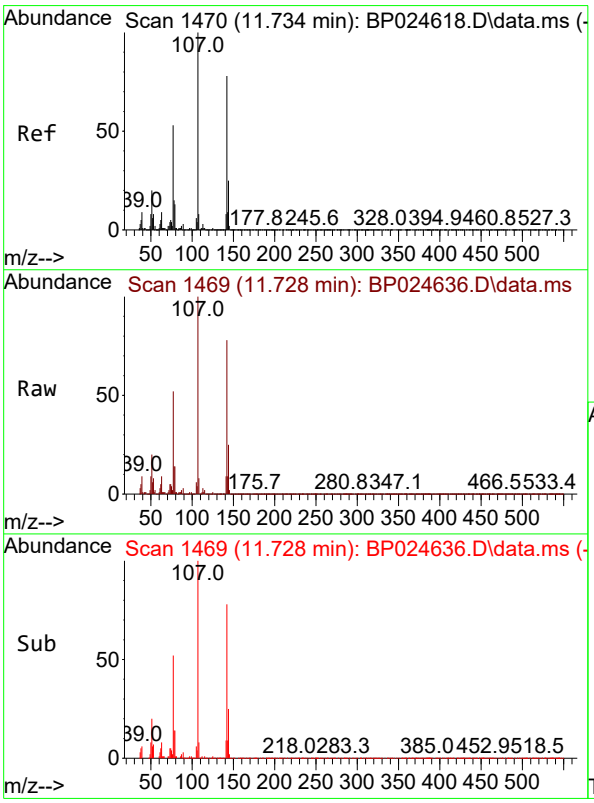
#35
Caprolactam
Concen: 45.423 ng
RT: 11.381 min Scan# 14
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:113 Resp: 128809

Ion	Ratio	Lower	Upper
113	100		
55	143.8	119.0	159.0
56	111.8	90.3	130.3

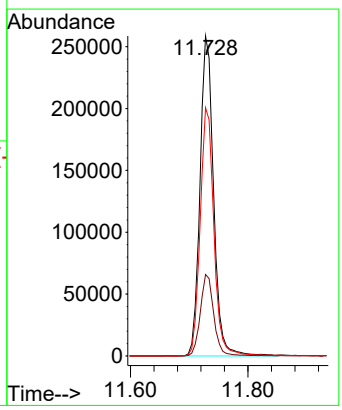


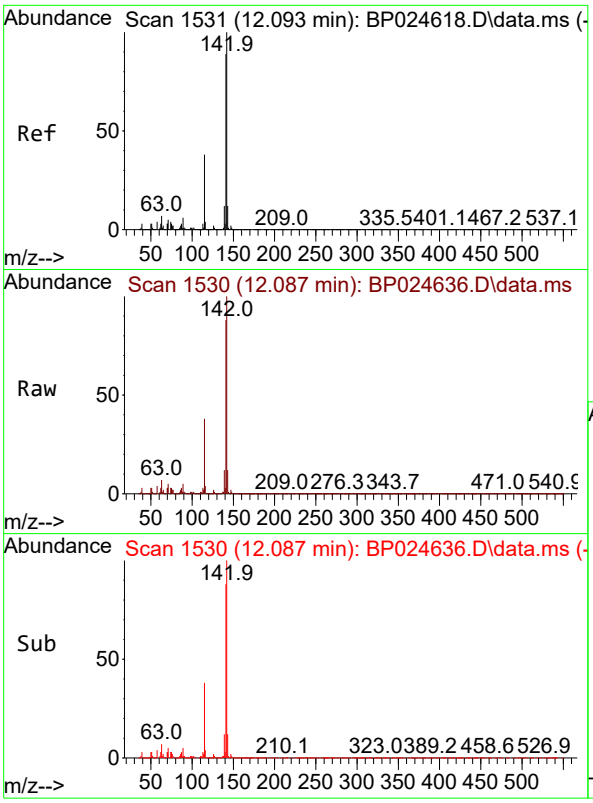


#36
4-Chloro-3-methylphenol
Concen: 43.596 ng
RT: 11.728 min Scan# 1469
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:107 Resp: 416701

Ion	Ratio	Lower	Upper
107	100		
144	25.5	20.1	30.1
142	77.5	62.1	93.1



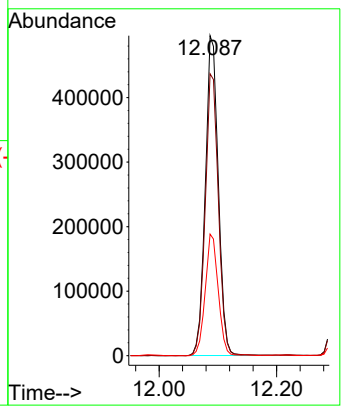


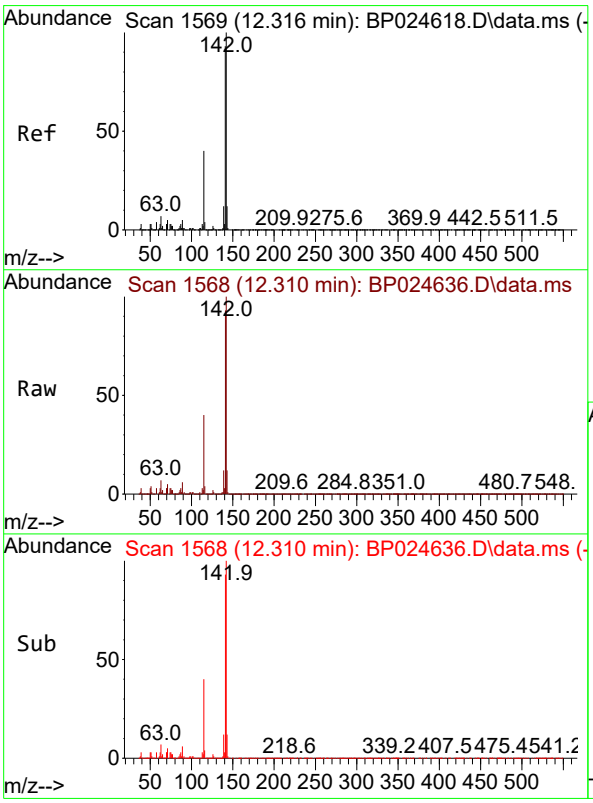
#37
2-Methylnaphthalene
Concen: 42.084 ng
RT: 12.087 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:142 Resp: 759040

Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.2	106.8
115	38.0	30.6	46.0

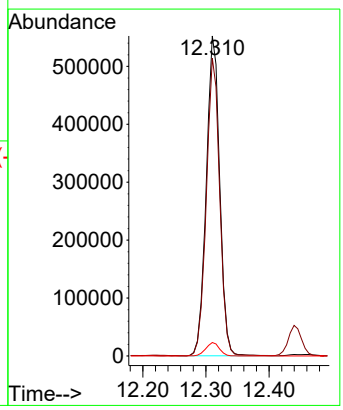


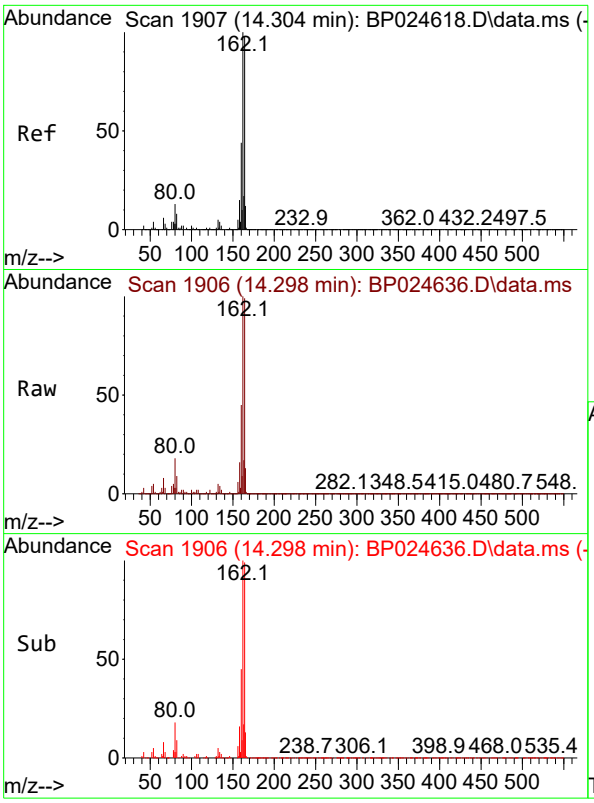


#38
1-Methylnaphthalene
Concen: 42.174 ng
RT: 12.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:142 Resp: 813878

Ion	Ratio	Lower	Upper
142	100		
141	93.1	74.7	112.1
116	4.2	3.4	5.2



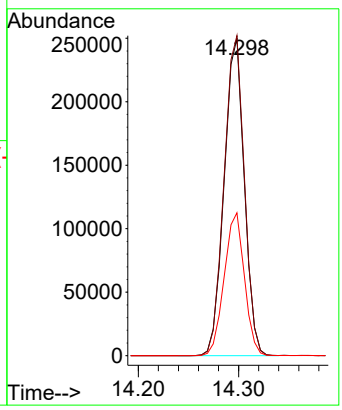


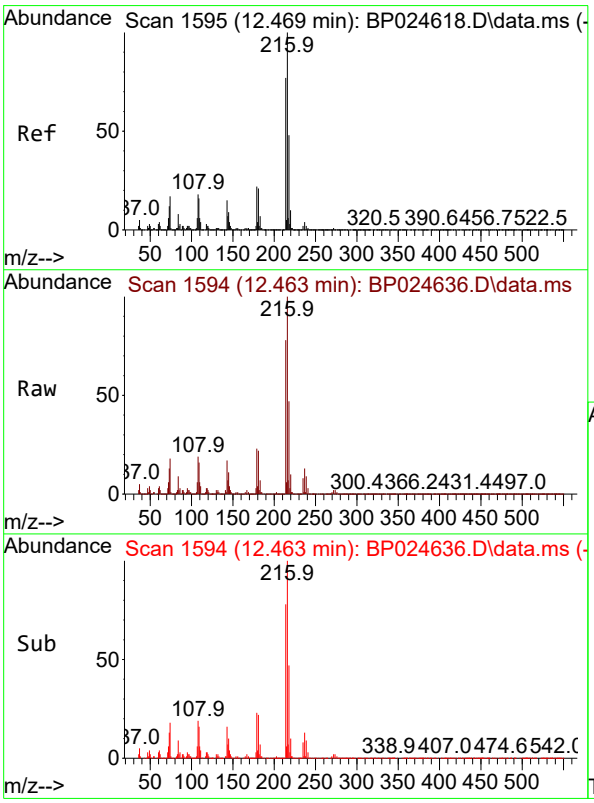
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:164 Resp: 347277

Ion	Ratio	Lower	Upper
164	100		
162	100.8	81.8	122.6
160	45.0	36.3	54.5

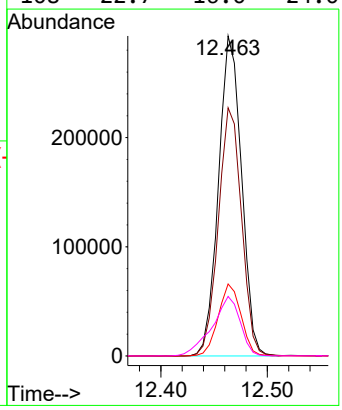


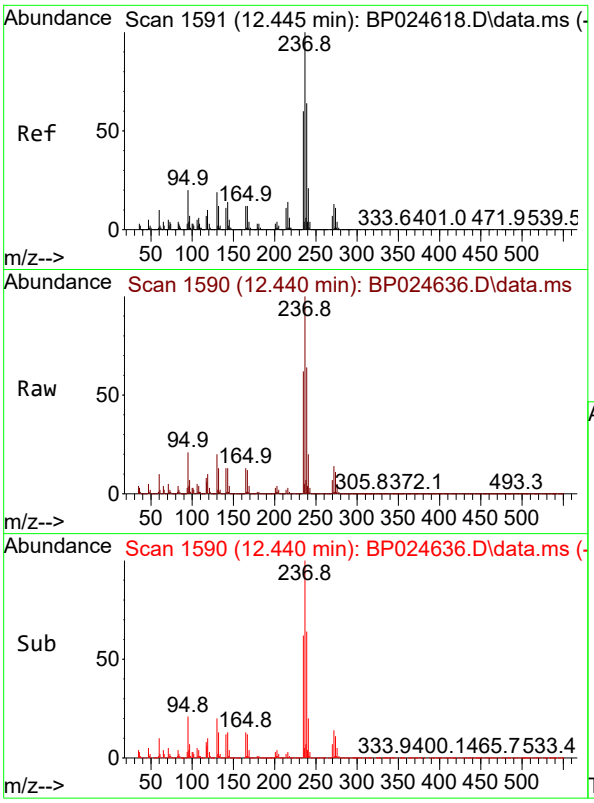


#40
1,2,4,5-Tetrachlorobenzene
Concen: 43.595 ng
RT: 12.463 min Scan# 1594
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:216 Resp: 439636

Ion	Ratio	Lower	Upper
216	100		
214	78.2	62.3	93.5
179	22.3	17.7	26.5
108	22.7	16.0	24.0



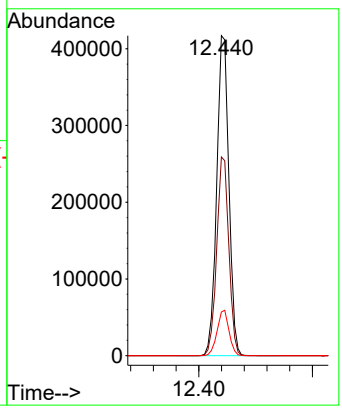


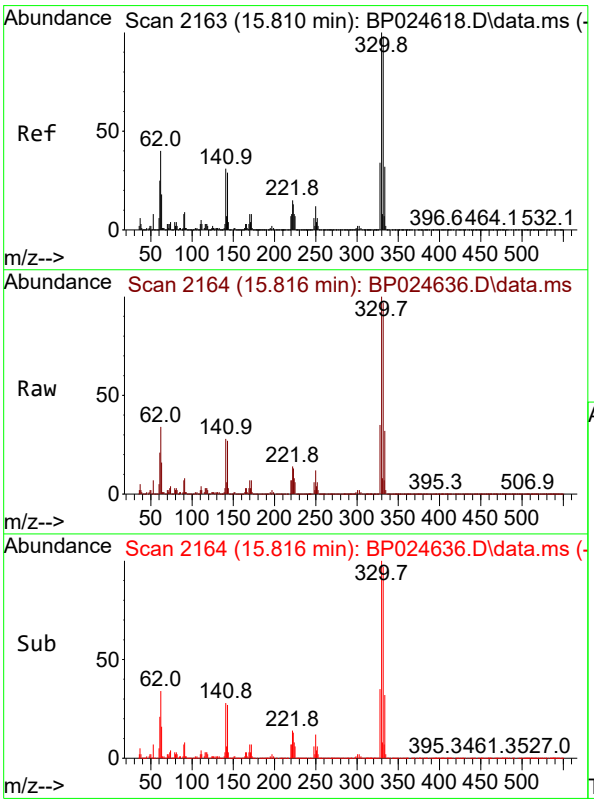
#41
Hexachlorocyclopentadiene
Concen: 101.081 ng
RT: 12.440 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:237 Resp: 618099

Ion	Ratio	Lower	Upper
237	100		
235	62.1	39.9	79.9
272	13.6	0.0	33.2

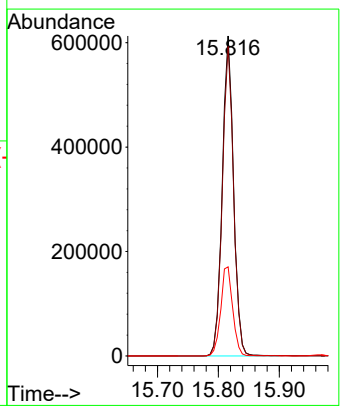


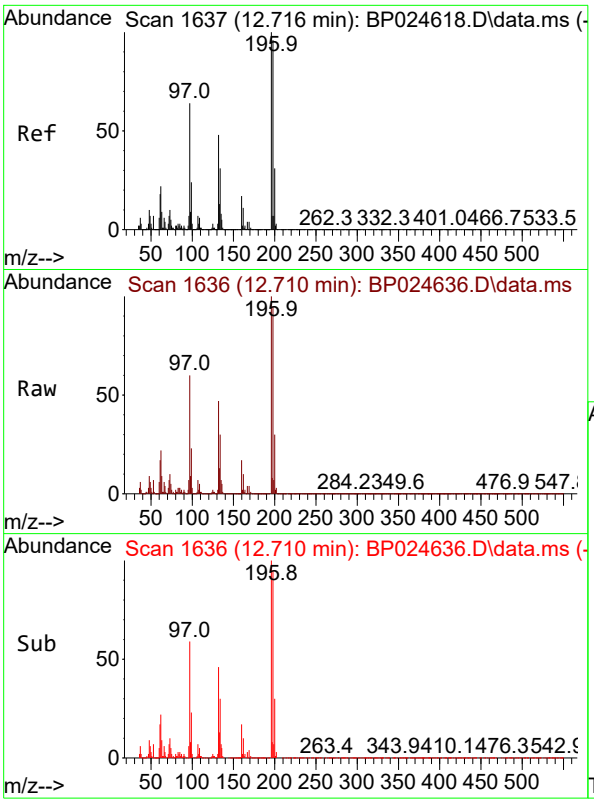


#42
2,4,6-Tribromophenol
Concen: 134.019 ng
RT: 15.816 min Scan# 2164
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:330 Resp: 789015

Ion	Ratio	Lower	Upper
330	100		
332	96.4	78.2	117.4
141	29.5	24.3	36.5



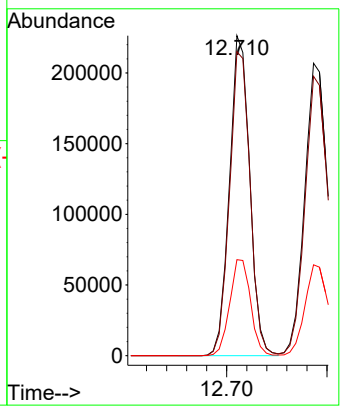


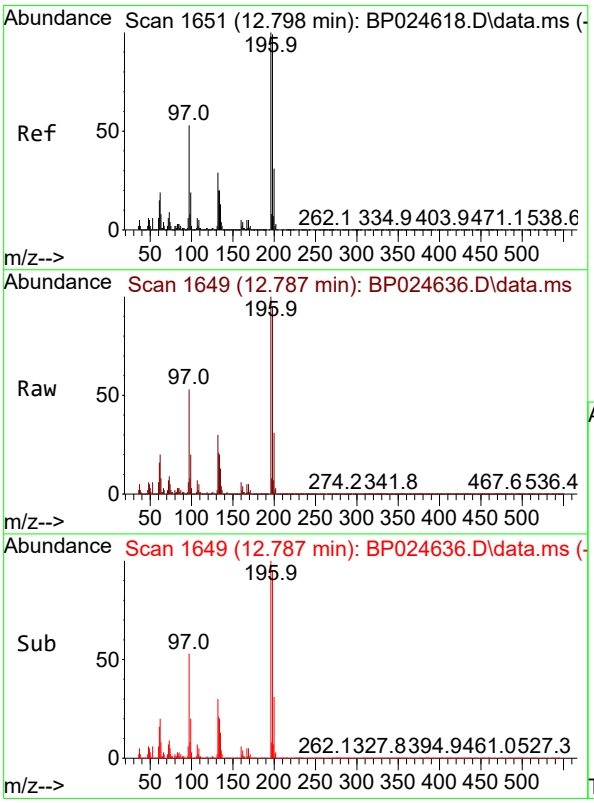
#43
2,4,6-Trichlorophenol
Concen: 48.539 ng
RT: 12.710 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:196 Resp: 317048

Ion	Ratio	Lower	Upper
196	100		
198	95.0	76.9	115.3
200	30.0	25.2	37.8

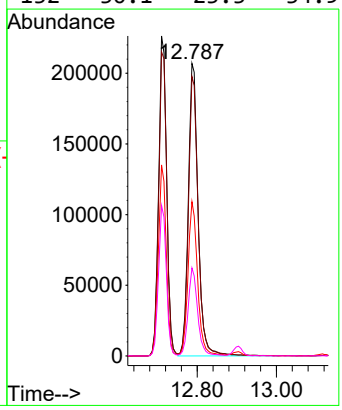


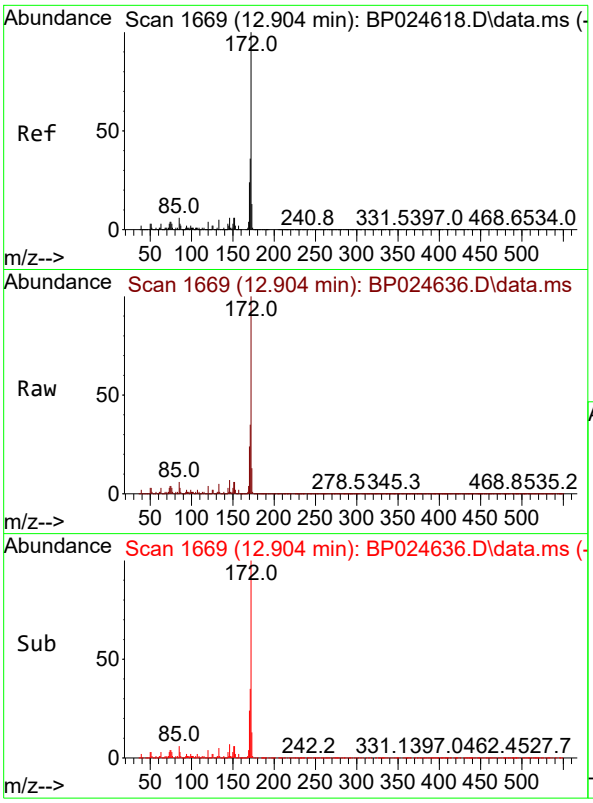


#44
2,4,5-Trichlorophenol
Concen: 48.883 ng
RT: 12.787 min Scan# 1649
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:196 Resp: 355418

Ion	Ratio	Lower	Upper
196	100		
198	95.5	79.2	118.8
97	52.7	42.3	63.5
132	30.1	23.3	34.9



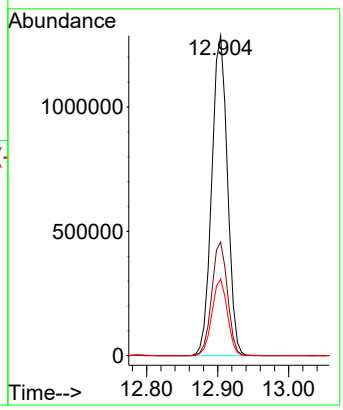


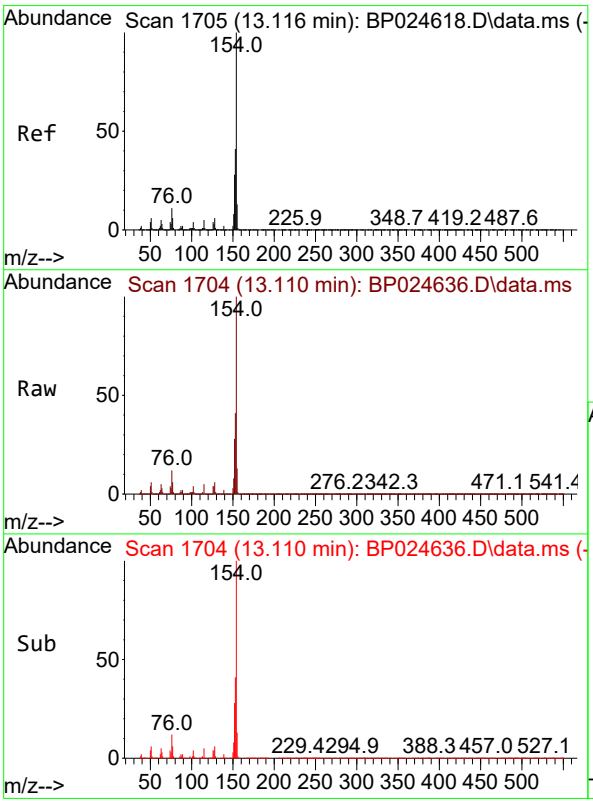
#45
2-Fluorobiphenyl
Concen: 74.470 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:172 Resp: 1973979

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.8	43.2
170	23.9	18.8	28.2

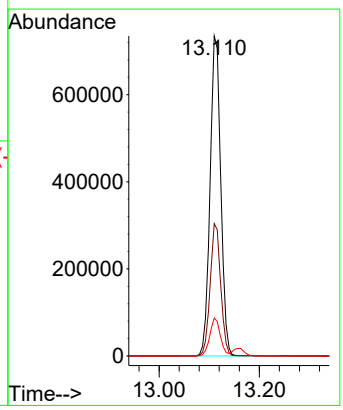


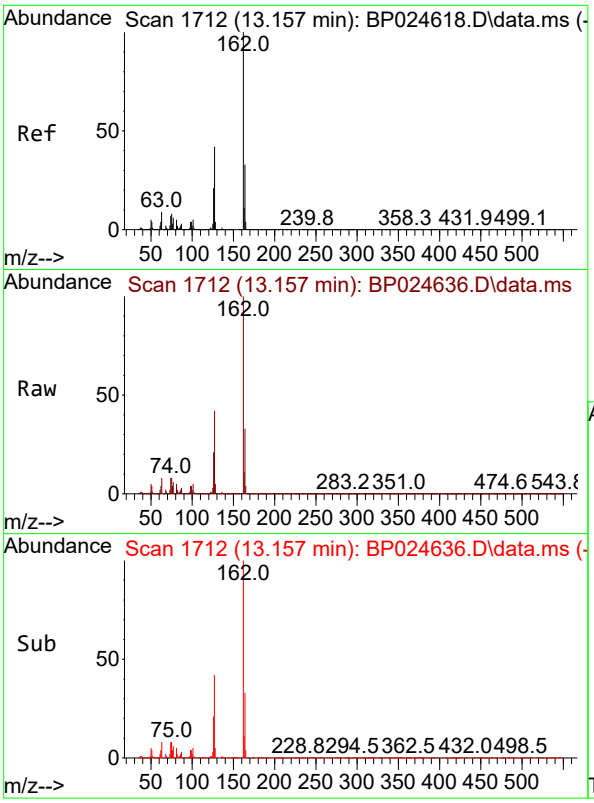


#46
1,1'-Biphenyl
Concen: 42.370 ng
RT: 13.110 min Scan# 1704
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:154 Resp: 1087547

Ion	Ratio	Lower	Upper
154	100		
153	41.4	21.0	61.0
76	11.8	0.0	31.5



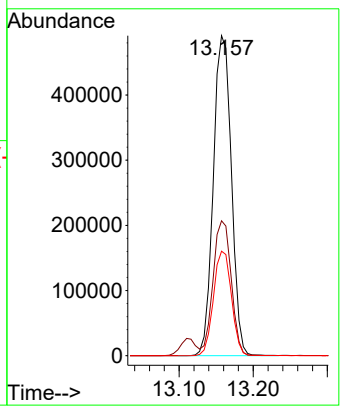


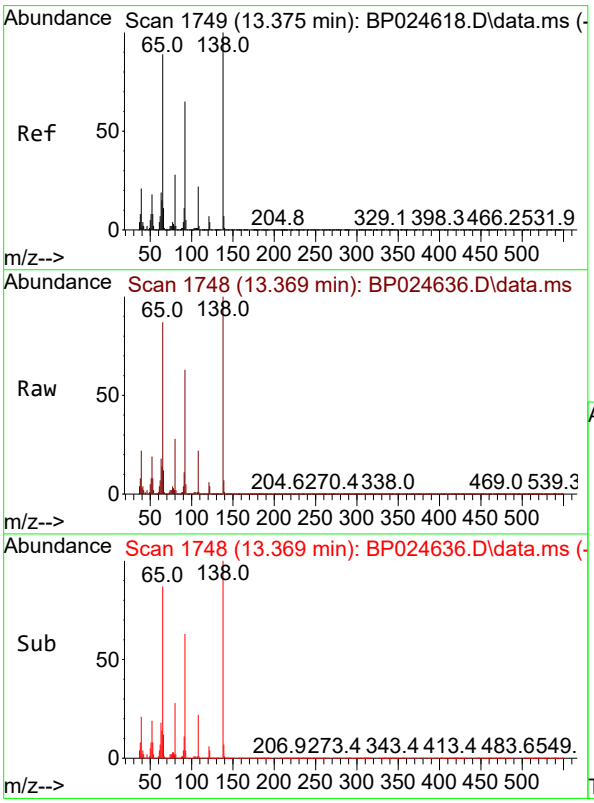
#47
2-Chloronaphthalene
Concen: 42.452 ng
RT: 13.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:162 Resp: 830827

Ion	Ratio	Lower	Upper
162	100		
127	42.2	33.8	50.6
164	32.6	26.0	39.0

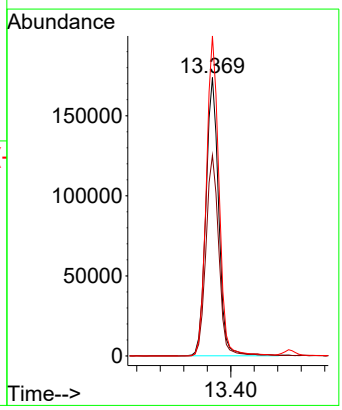


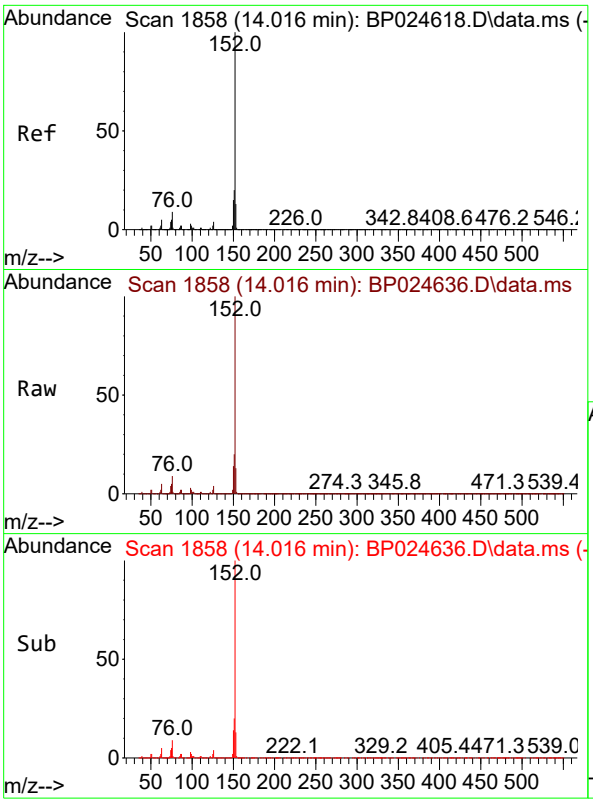


#48
2-Nitroaniline
Concen: 45.161 ng
RT: 13.369 min Scan# 1748
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 65 Resp: 261668

Ion	Ratio	Lower	Upper
65	100		
92	72.1	58.7	88.1
138	114.9	90.2	135.2



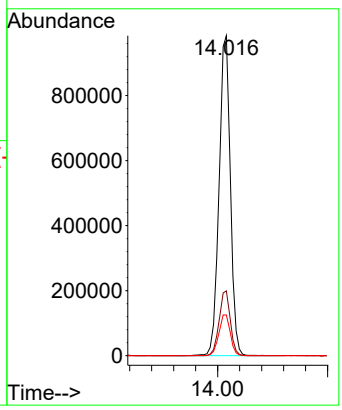


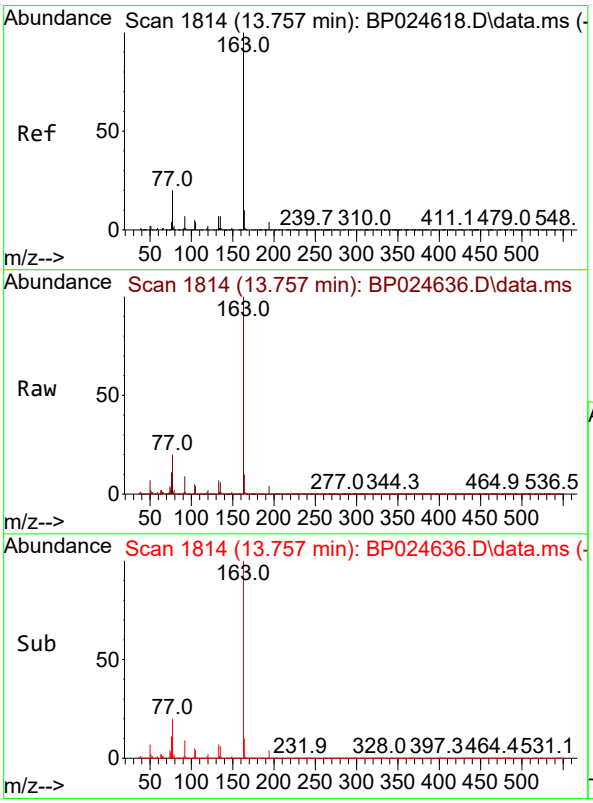
#49
Acenaphthylene
Concen: 42.731 ng
RT: 14.016 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:152 Resp: 1399482

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	12.7	10.2	15.4

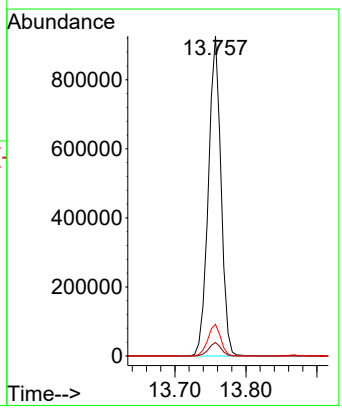


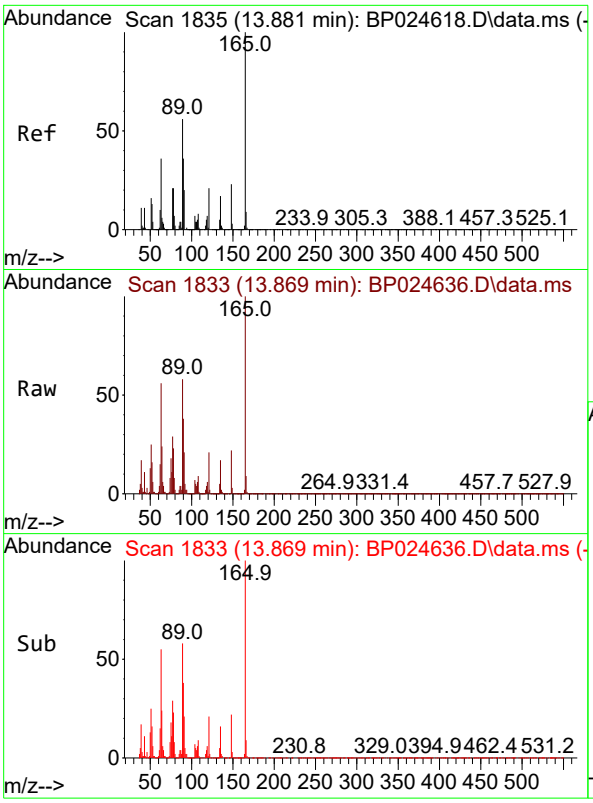


#50
Dimethylphthalate
Concen: 43.156 ng
RT: 13.757 min Scan# 1814
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:163 Resp: 1142335

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	9.9	8.1	12.1



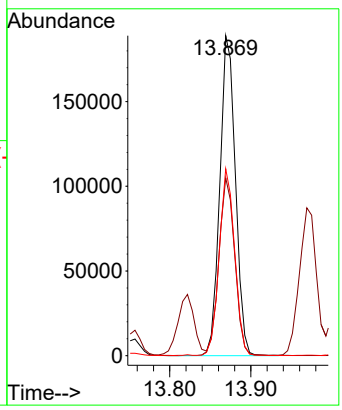


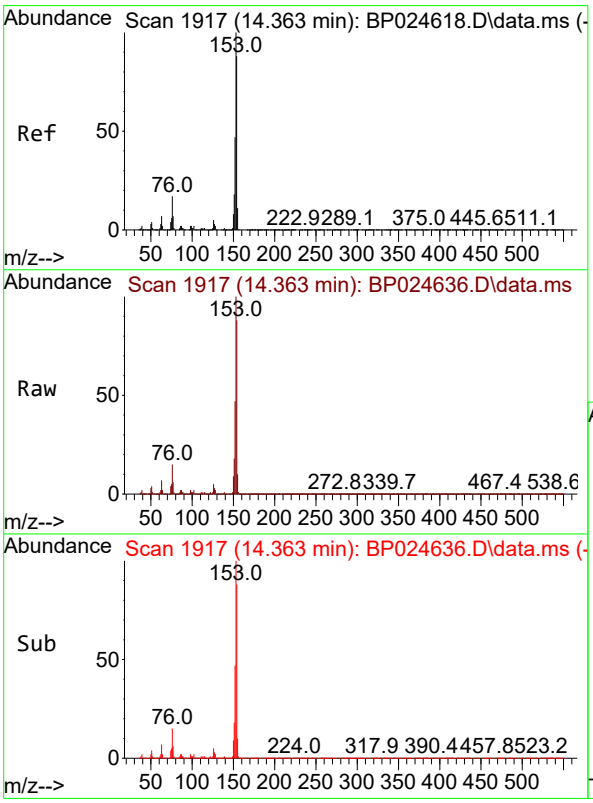
#51
2,6-Dinitrotoluene
Concen: 45.211 ng
RT: 13.869 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:165 Resp: 252742

Ion	Ratio	Lower	Upper
165	100		
63	55.6	42.4	63.6
89	58.4	44.8	67.2

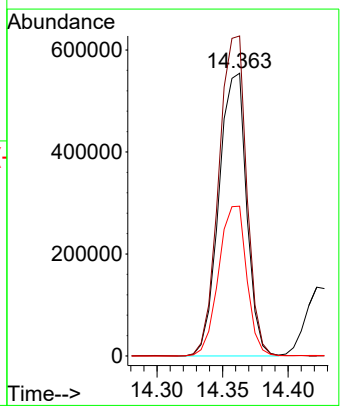


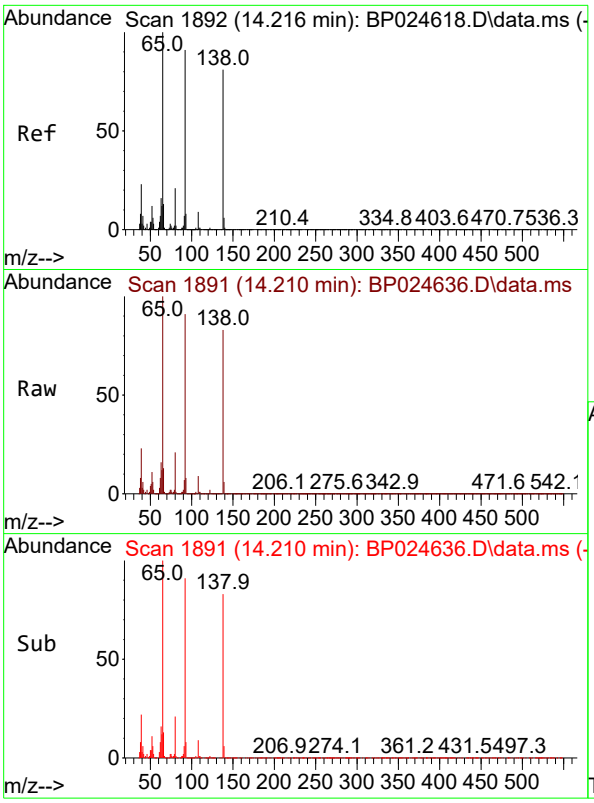


#52
Acenaphthene
Concen: 43.217 ng
RT: 14.363 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:154 Resp: 813698

Ion	Ratio	Lower	Upper
154	100		
153	113.2	91.0	136.4
152	53.0	42.9	64.3



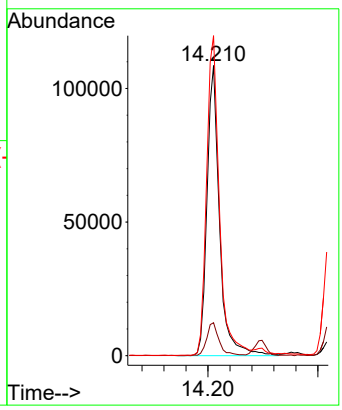


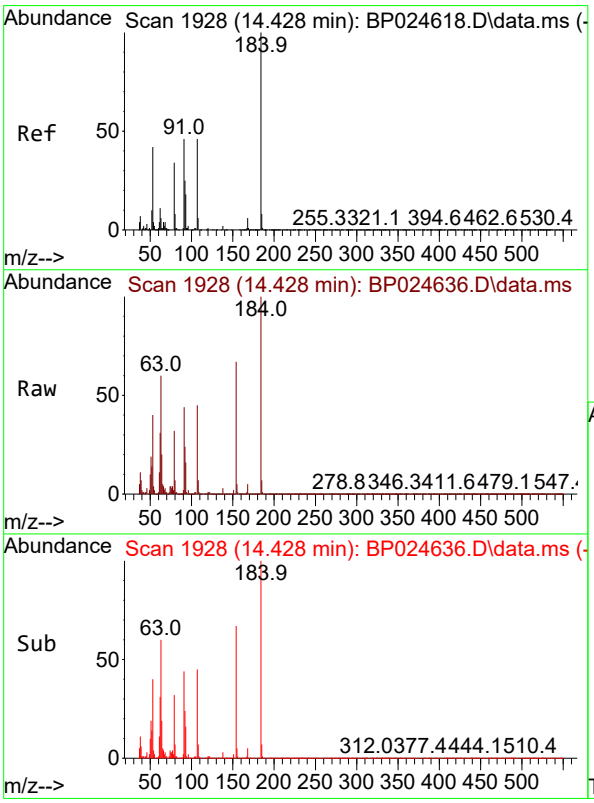
#53
3-Nitroaniline
Concen: 30.018 ng
RT: 14.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:138 Resp: 171345

Ion	Ratio	Lower	Upper
138	100		
108	11.3	9.0	13.4
92	110.3	90.1	135.1

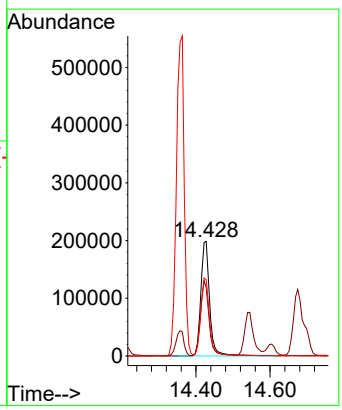


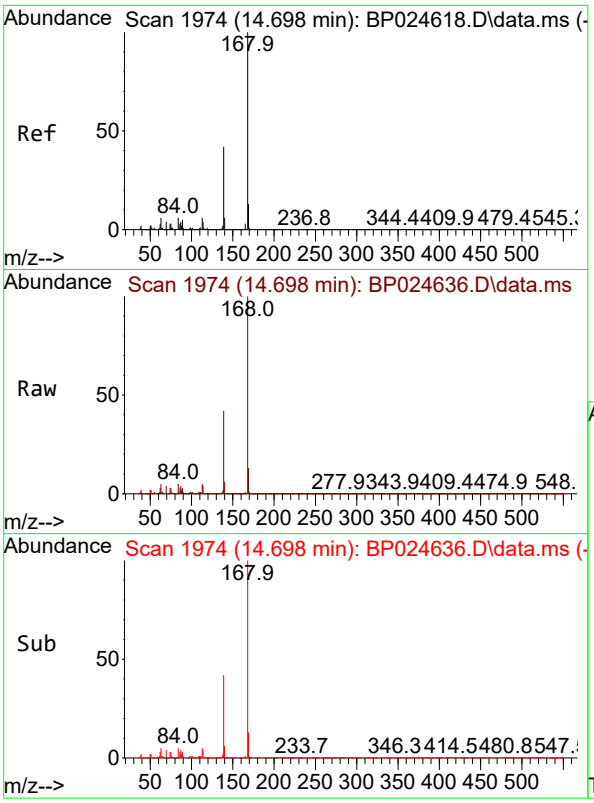


#54
2,4-Dinitrophenol
Concen: 91.929 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:184 Resp: 327717

Ion	Ratio	Lower	Upper
184	100		
63	59.6	51.3	76.9
154	66.6	53.5	80.3



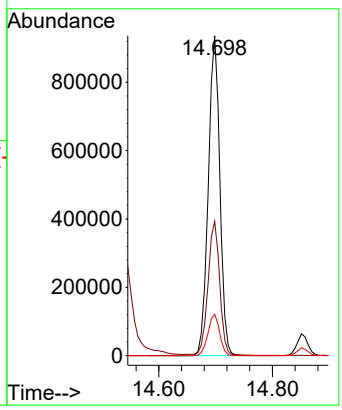


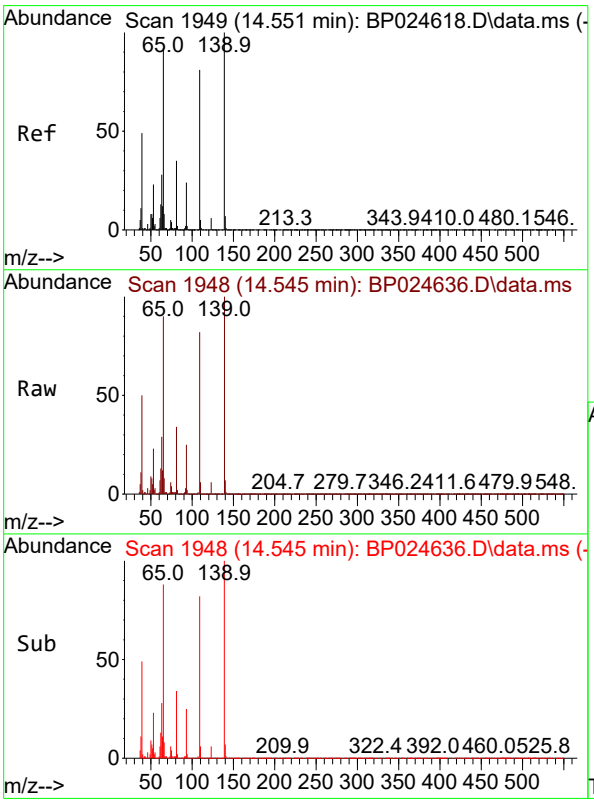
#55
Dibenzofuran
Concen: 43.757 ng
RT: 14.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:168 Resp: 1314124

Ion	Ratio	Lower	Upper
168	100		
139	42.0	34.2	51.4
169	12.9	10.8	16.2

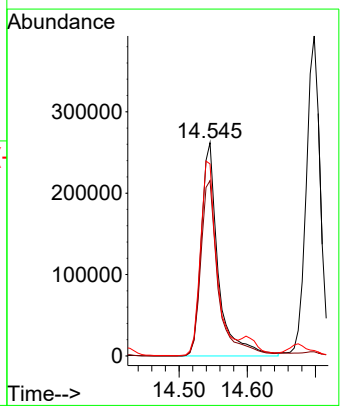


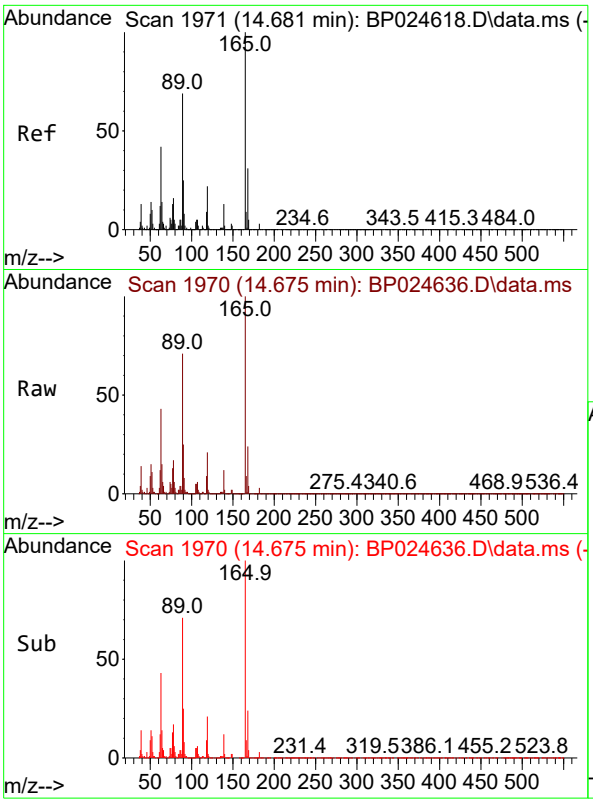


#56
4-Nitrophenol
Concen: 91.385 ng
RT: 14.545 min Scan# 1948
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:139 Resp: 454745

Ion	Ratio	Lower	Upper
139	100		
109	82.3	61.4	101.4
65	90.1	72.2	112.2



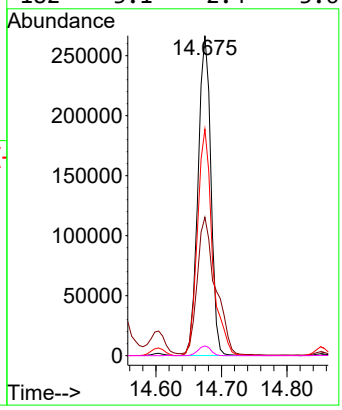


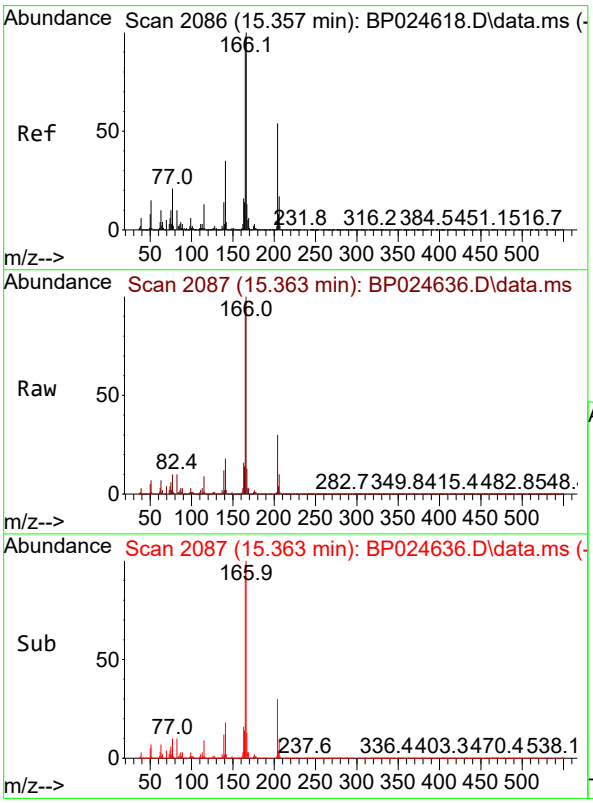
#57
2,4-Dinitrotoluene
Concen: 46.266 ng
RT: 14.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:165 Resp: 364632

Ion	Ratio	Lower	Upper
165	100		
63	43.3	33.8	50.6
89	70.8	55.6	83.4
182	3.1	2.4	3.6

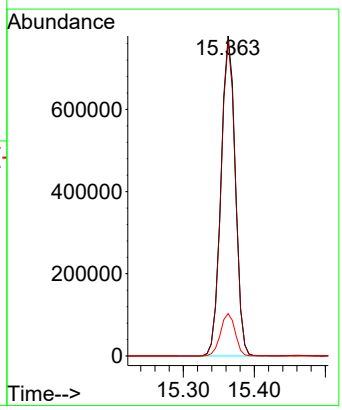


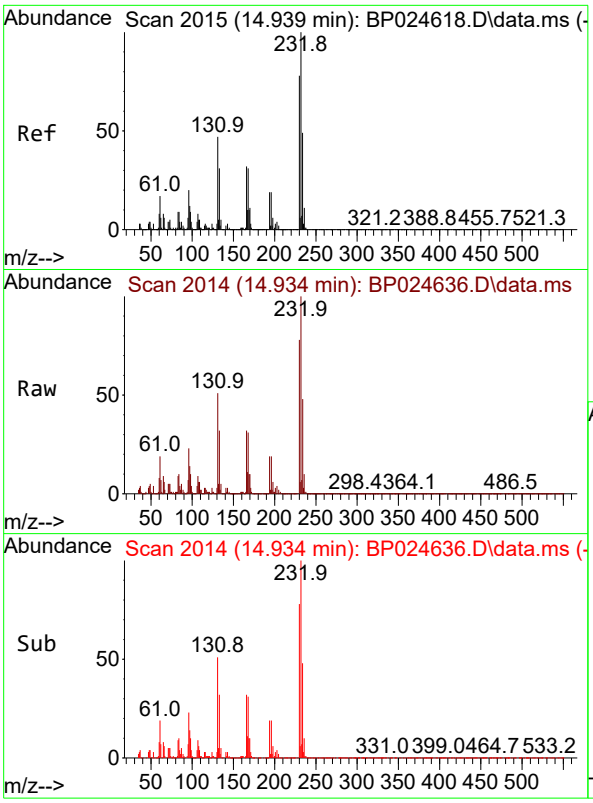


#58
Fluorene
Concen: 44.389 ng
RT: 15.363 min Scan# 2087
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:166 Resp: 1086996

Ion	Ratio	Lower	Upper
166	100		
165	98.4	78.5	117.7
167	13.3	10.7	16.1



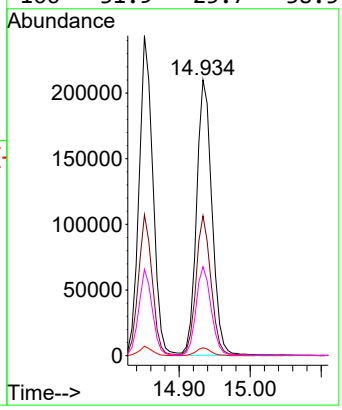


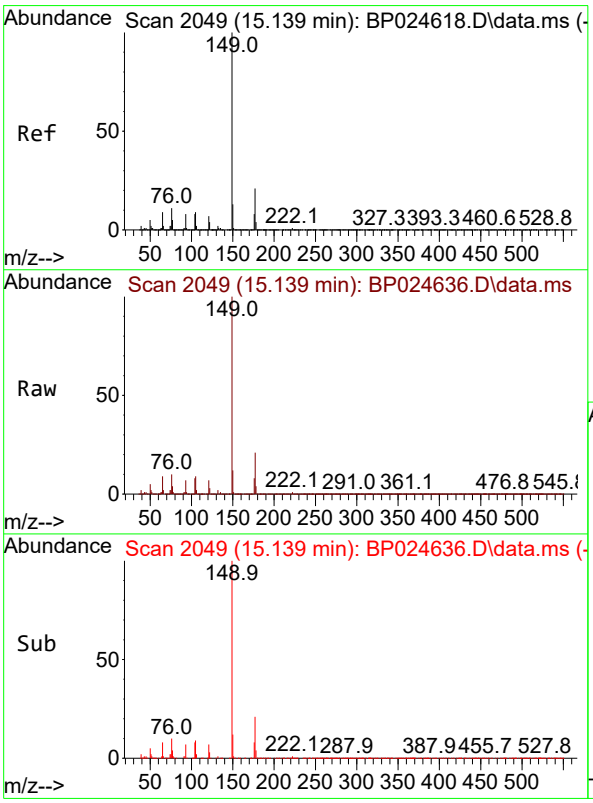
#59
2,3,4,6-Tetrachlorophenol
Concen: 46.974 ng
RT: 14.934 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:232 Resp: 316831

Ion	Ratio	Lower	Upper
232	100		
131	49.2	39.5	59.3
130	2.8	2.2	3.4
166	31.9	25.7	38.5

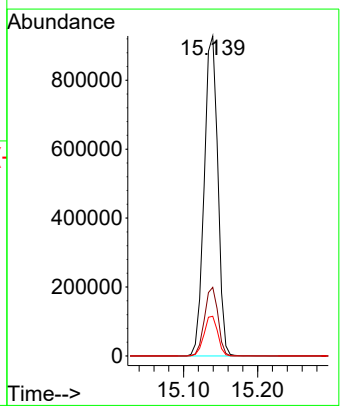


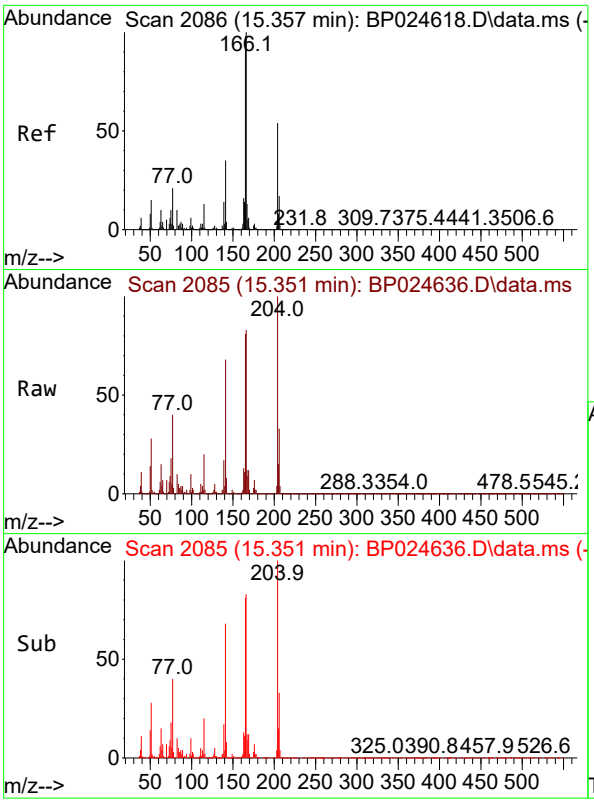


#60
Diethylphthalate
Concen: 44.273 ng
RT: 15.139 min Scan# 2049
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:149 Resp: 1184435

Ion	Ratio	Lower	Upper
149	100		
177	21.5	16.7	25.1
150	12.4	10.2	15.2



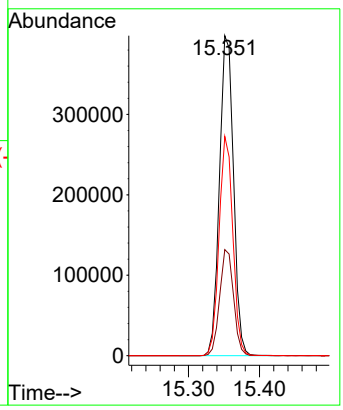


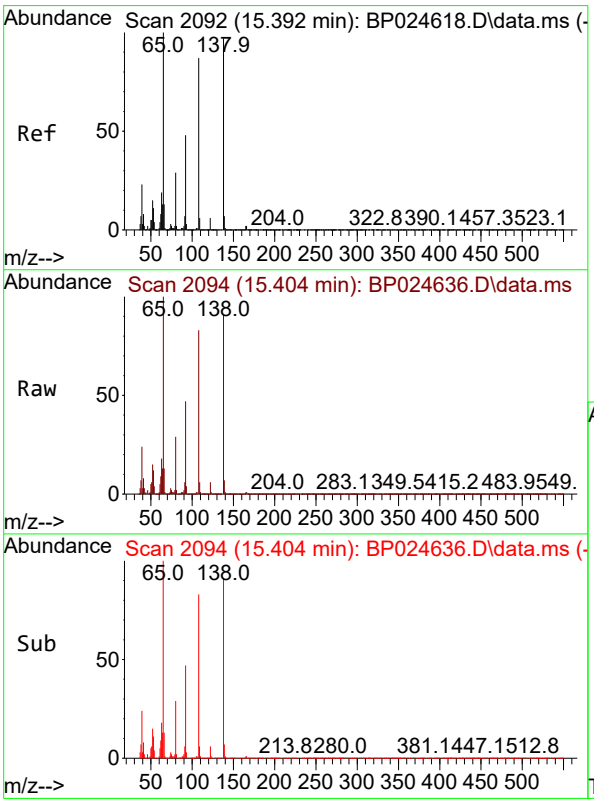
#61
4-Chlorophenyl-phenylether
Concen: 44.463 ng
RT: 15.351 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:204 Resp: 542996

Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.0	39.0
141	68.5	52.9	79.3

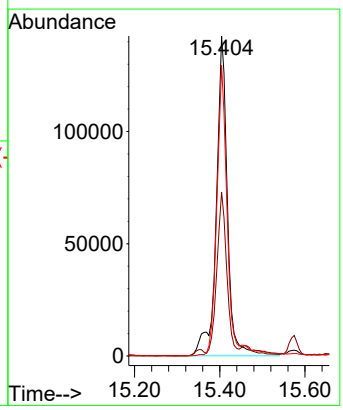


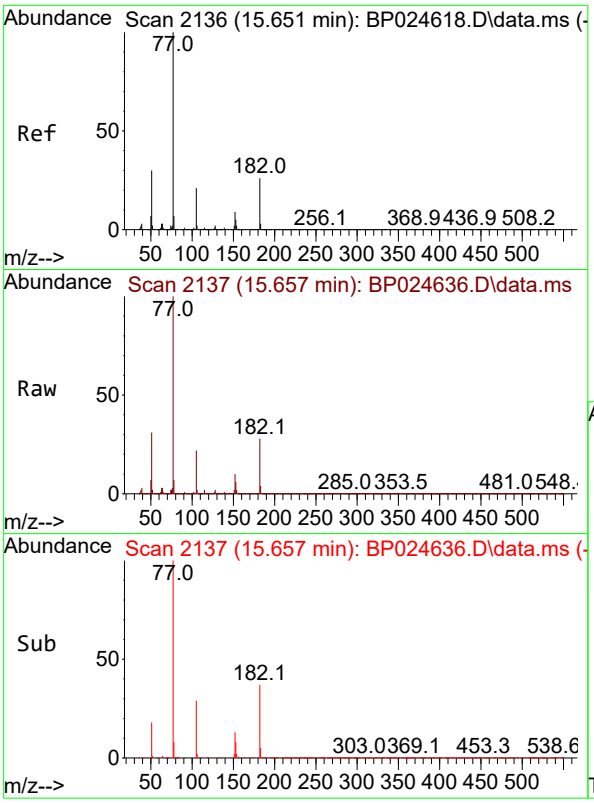


#62
4-Nitroaniline
Concen: 47.641 ng
RT: 15.404 min Scan# 2094
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:138 Resp: 262574

Ion	Ratio	Lower	Upper
138	100		
92	51.2	29.2	69.2
108	90.8	69.0	109.0



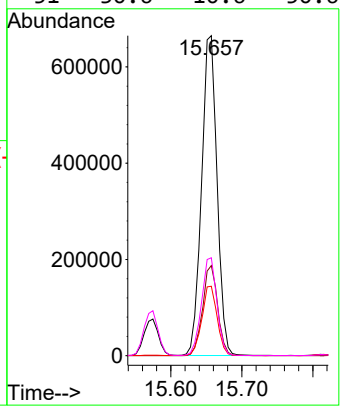


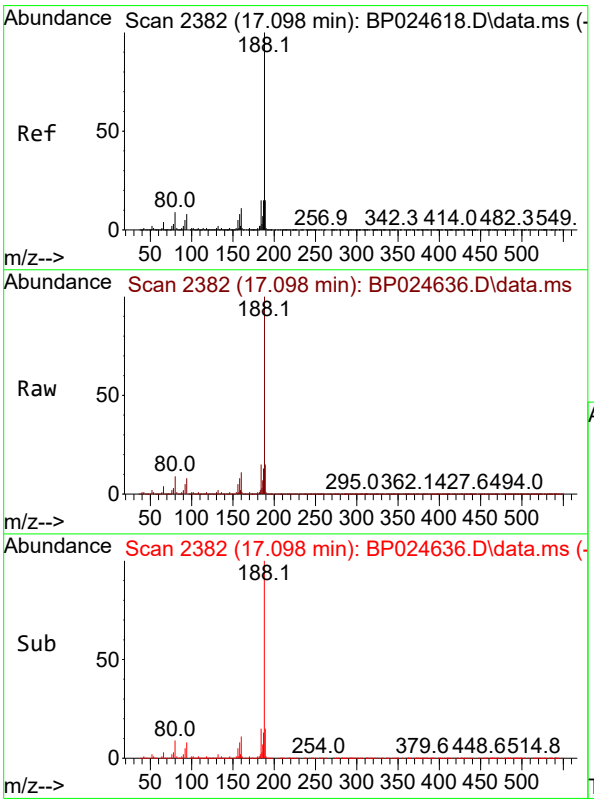
#63
Azobenzene
Concen: 44.109 ng
RT: 15.657 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 77 Resp: 1009501

Ion	Ratio	Lower	Upper
77	100		
182	28.1	5.7	45.7
105	21.7	1.3	41.3
51	30.6	10.6	50.6

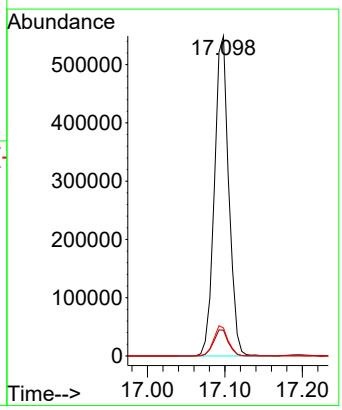


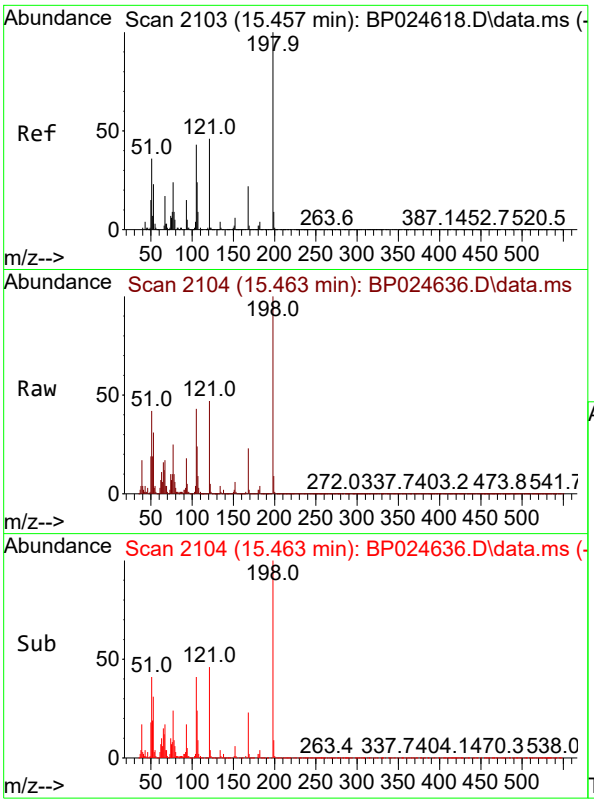


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.098 min Scan# 2382
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:188 Resp: 706031

Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.5	9.7
80	8.7	7.3	10.9



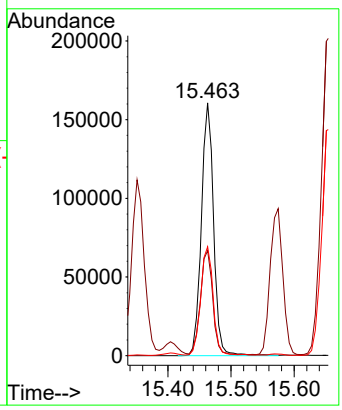


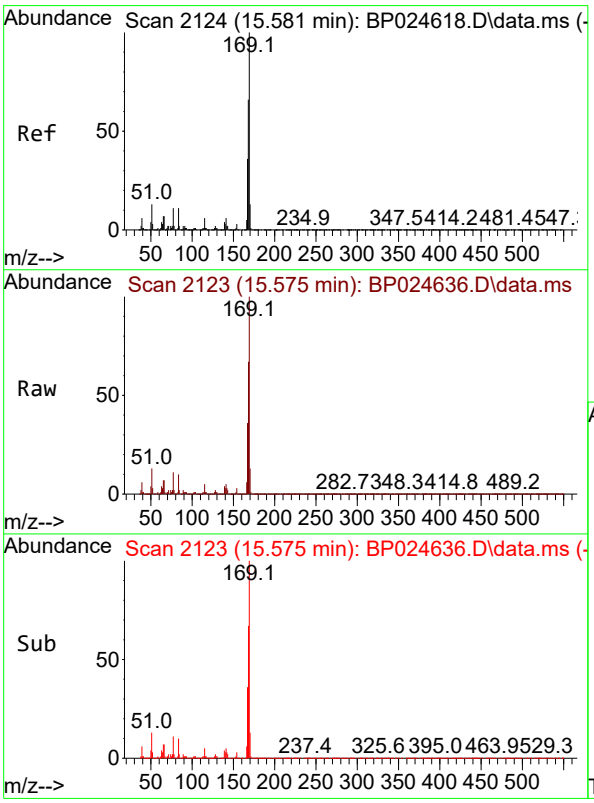
#65
4,6-Dinitro-2-methylphenol
Concen: 47.398 ng
RT: 15.463 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:198 Resp: 216160

Ion	Ratio	Lower	Upper
198	100		
51	41.6	21.1	61.1
105	43.1	23.6	63.6

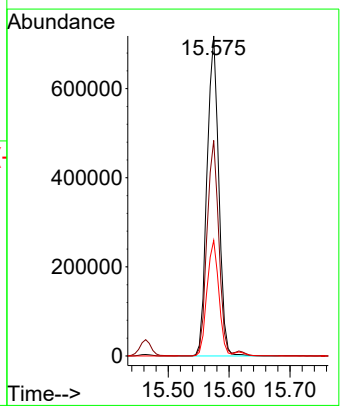


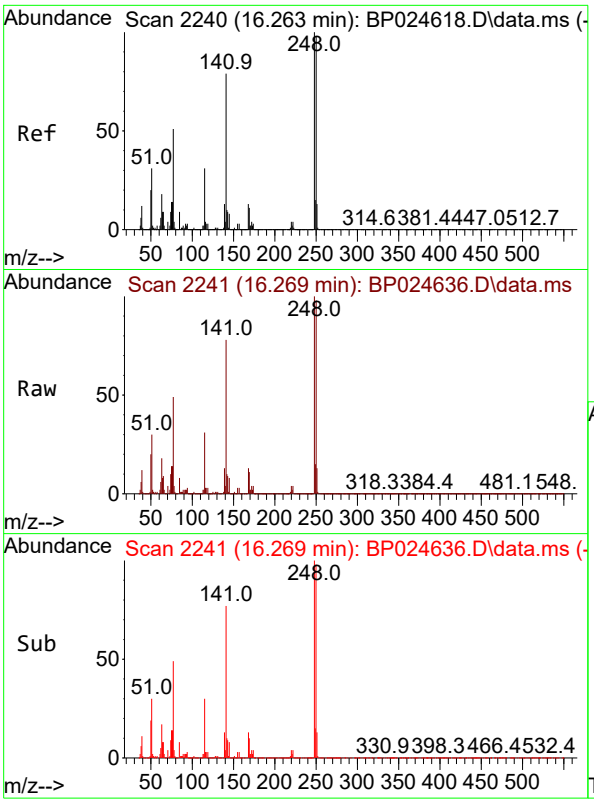


#66
n-Nitrosodiphenylamine
Concen: 44.353 ng
RT: 15.575 min Scan# 2123
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:169 Resp: 961865

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.2	79.8
167	36.1	28.6	43.0



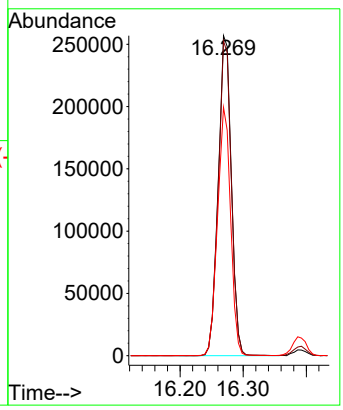


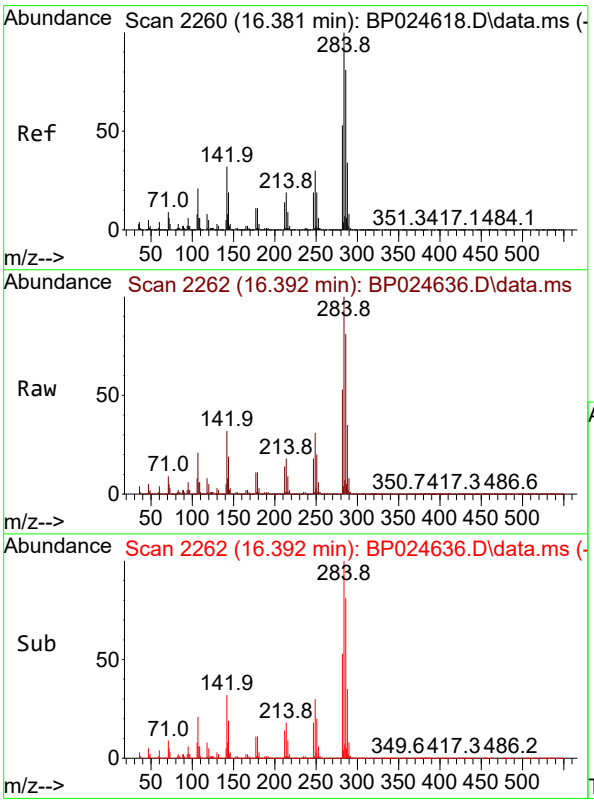
#67
4-Bromophenyl-phenylether
Concen: 44.731 ng
RT: 16.269 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:248 Resp: 372135

Ion	Ratio	Lower	Upper
248	100		
250	98.4	78.2	117.4
141	77.6	63.0	94.6

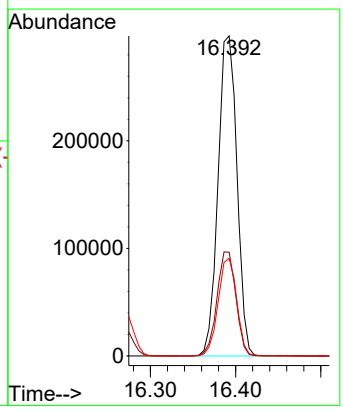


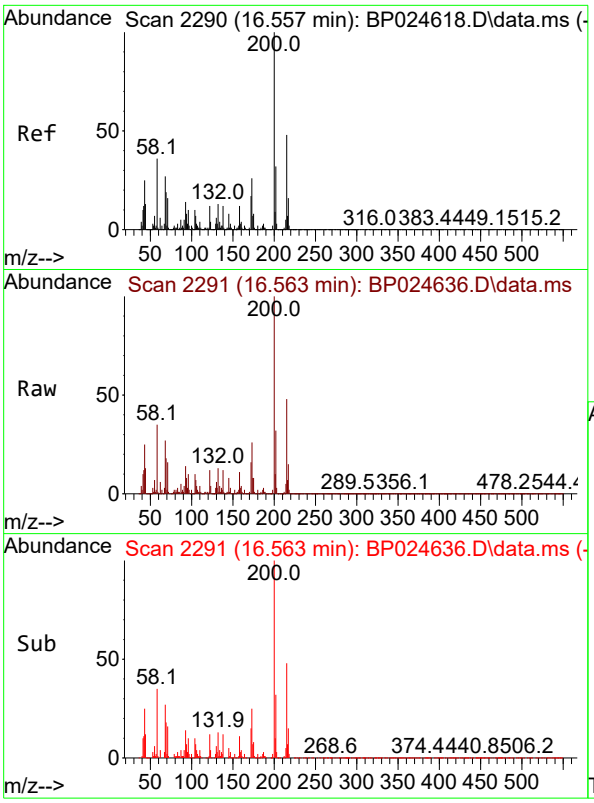


#68
Hexachlorobenzene
Concen: 43.353 ng
RT: 16.392 min Scan# 2262
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:284 Resp: 458305

Ion	Ratio	Lower	Upper
284	100		
142	32.5	25.9	38.9
249	30.5	24.1	36.1



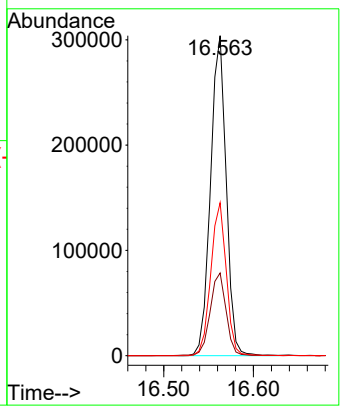


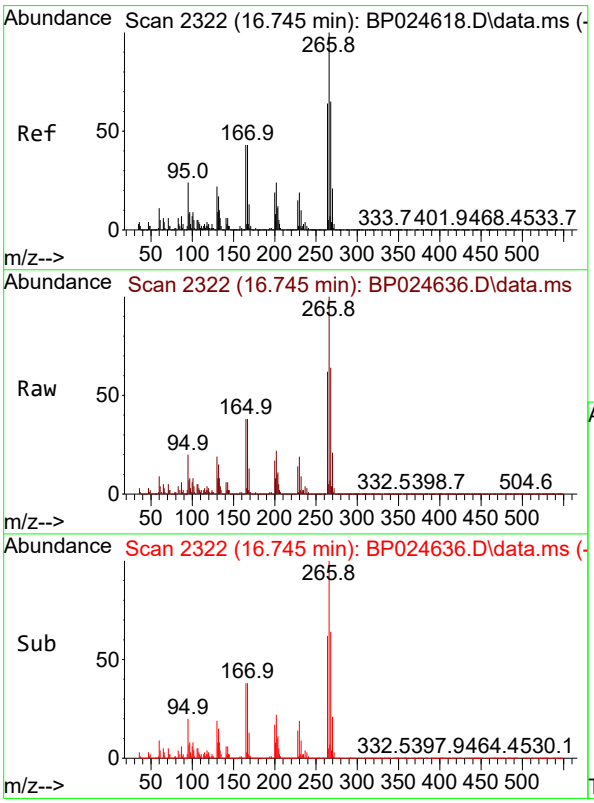
#69
Atrazine
Concen: 46.419 ng
RT: 16.563 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:200 Resp: 368913

Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.9	45.9
215	47.8	28.3	68.3

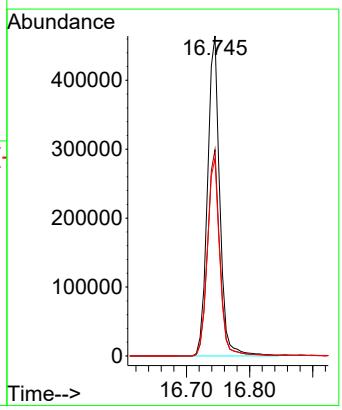


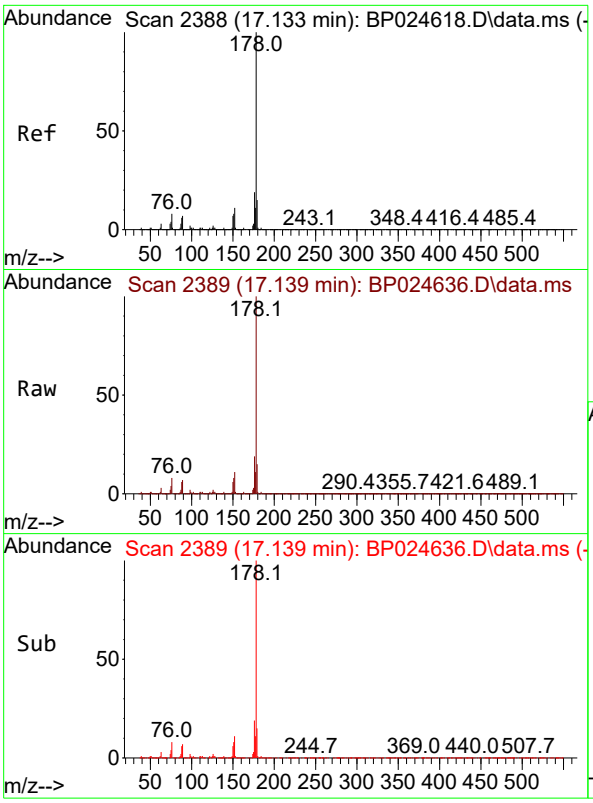


#70
Pentachlorophenol
Concen: 105.335 ng
RT: 16.745 min Scan# 2322
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:266 Resp: 625082

Ion	Ratio	Lower	Upper
266	100		
268	64.5	52.2	78.4
264	61.7	51.1	76.7



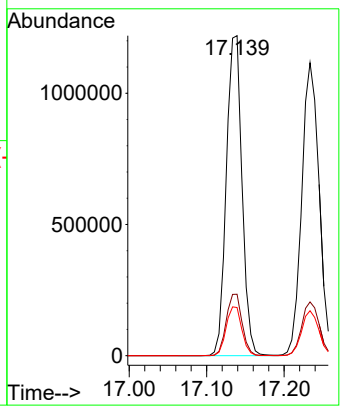


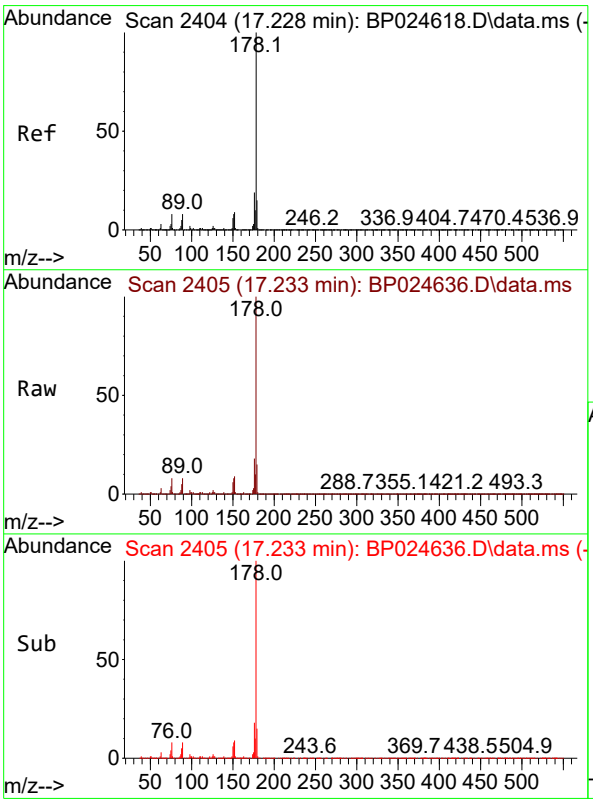
#71
Phenanthrene
Concen: 43.832 ng
RT: 17.139 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:178 Resp: 1720387

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.1	12.2	18.4

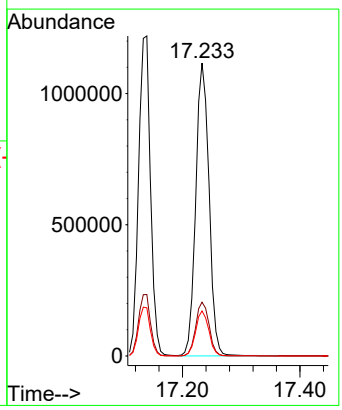


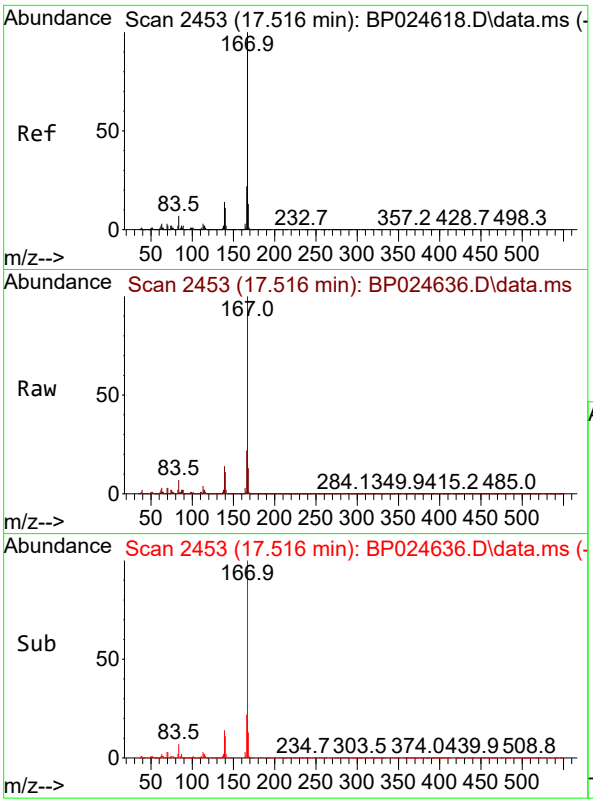


#72
Anthracene
Concen: 44.246 ng
RT: 17.233 min Scan# 2405
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:178 Resp: 1747224

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.4
179	15.3	12.2	18.2



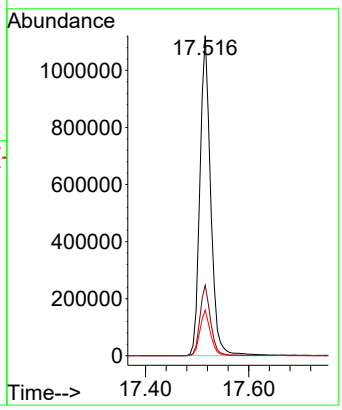


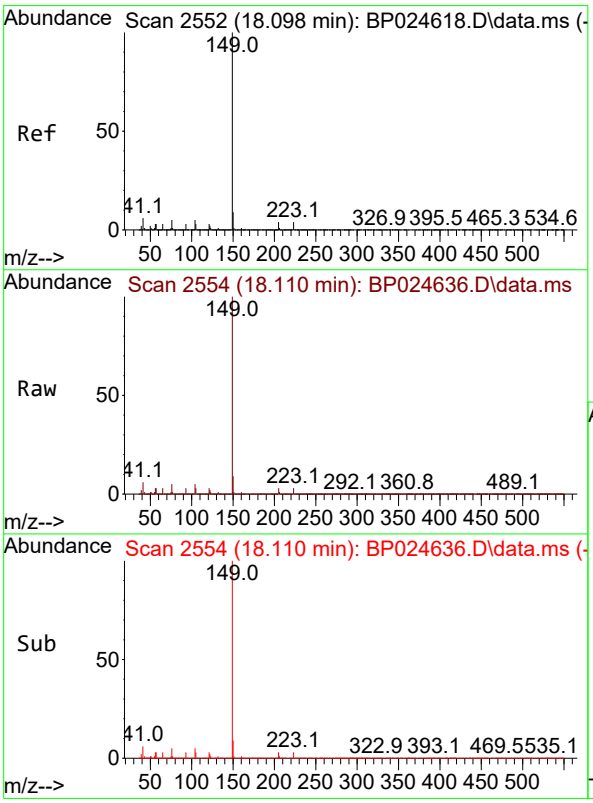
#73
Carbazole
Concen: 45.249 ng
RT: 17.516 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:167 Resp: 1617275

Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.7	26.5
139	14.3	11.3	16.9

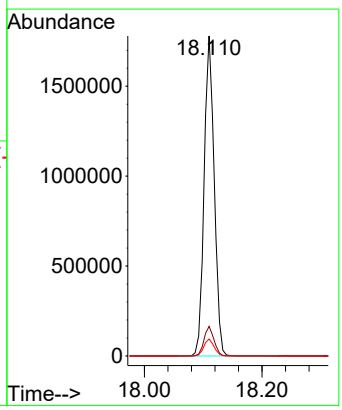


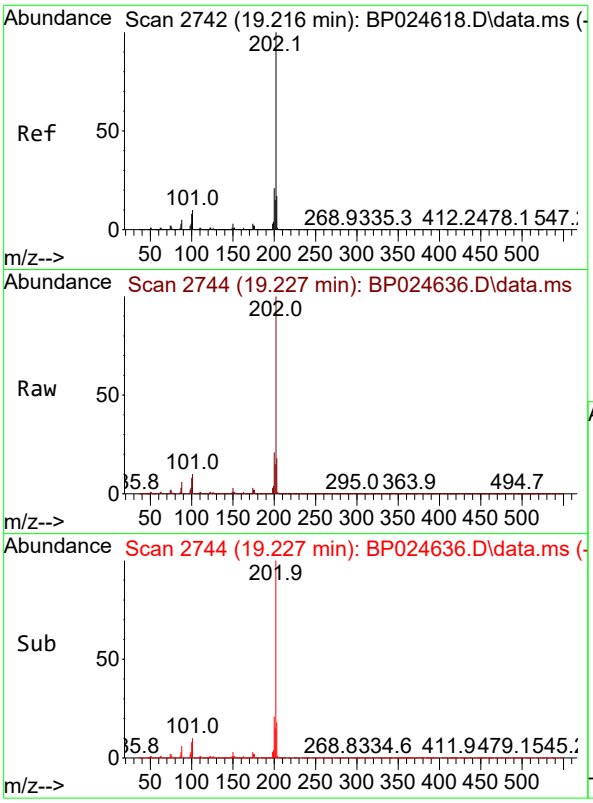


#74
Di-n-butylphthalate
Concen: 46.164 ng
RT: 18.110 min Scan# 2554
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:149 Resp: 2121998

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	5.3	4.3	6.5



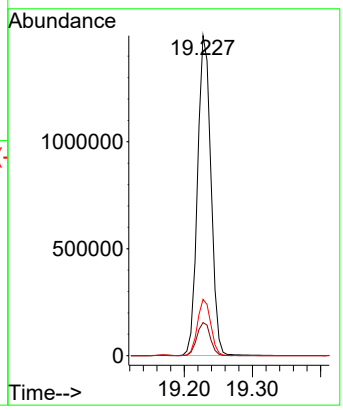


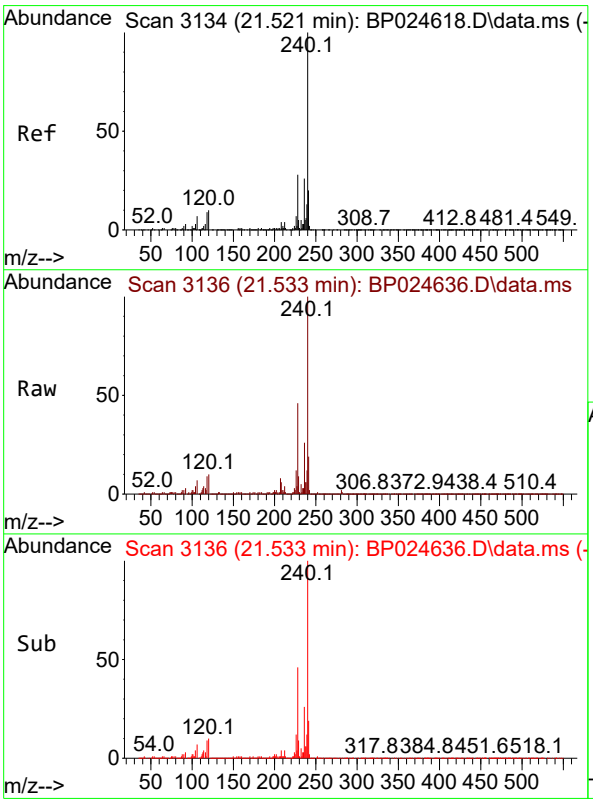
#75
Fluoranthene
Concen: 44.480 ng
RT: 19.227 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:202 Resp: 2040733

Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	30.3
203	17.6	0.0	37.5

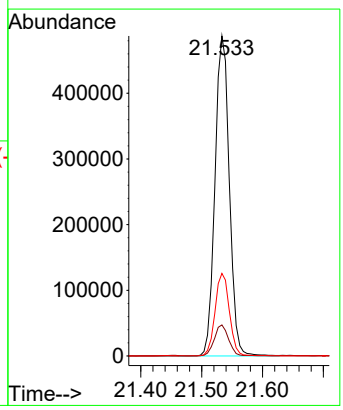


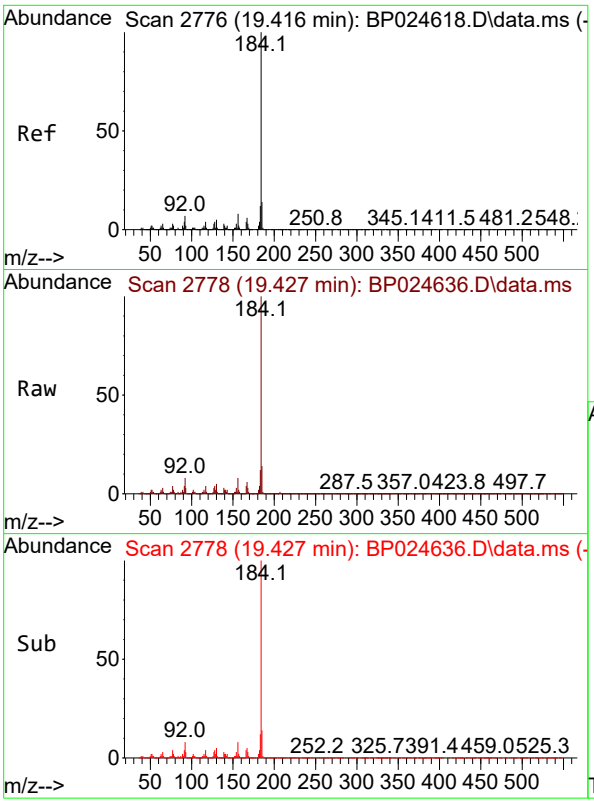


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.533 min Scan# 3136
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:240 Resp: 796554

Ion	Ratio	Lower	Upper
240	100		
120	9.7	7.8	11.6
236	25.8	20.6	31.0



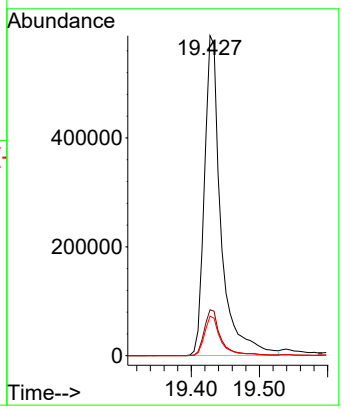


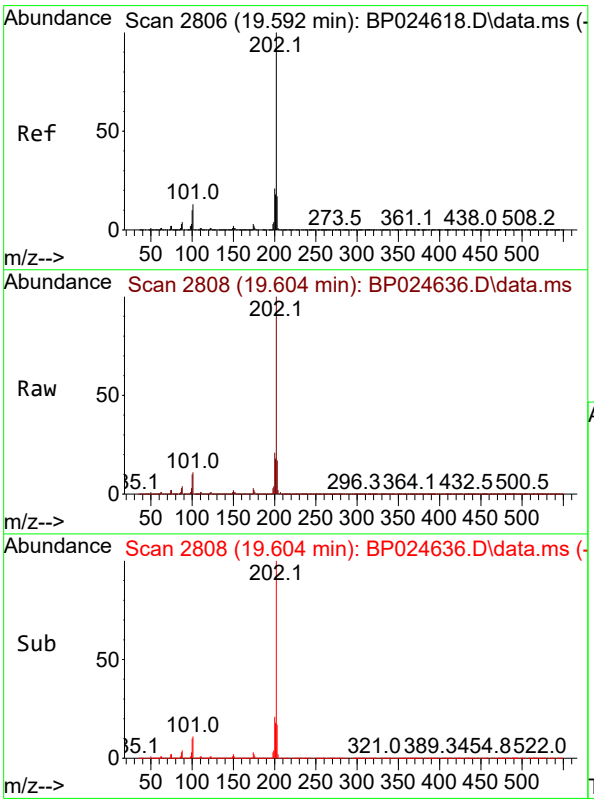
#77
Benzidine
Concen: 45.847 ng
RT: 19.427 min Scan# 2
Delta R.T. 0.011 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:184 Resp: 994653

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.2	16.8
183	12.3	9.8	14.8

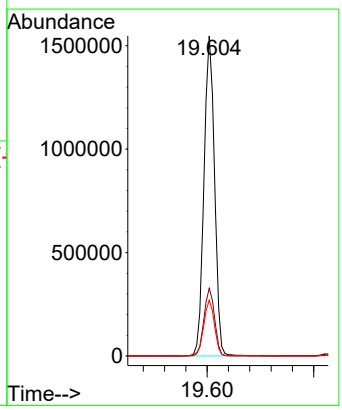


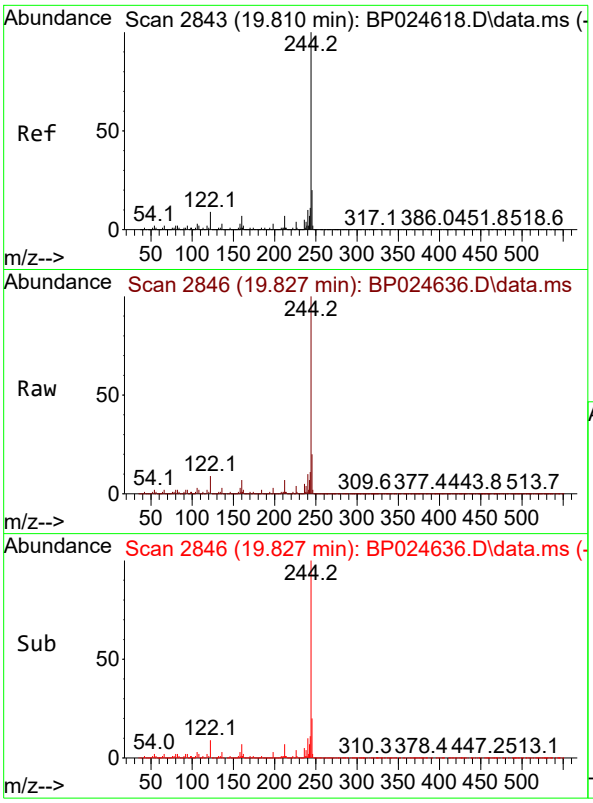


#78
Pyrene
Concen: 44.580 ng
RT: 19.604 min Scan# 2808
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:202 Resp: 2127702

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.4	13.9	20.9



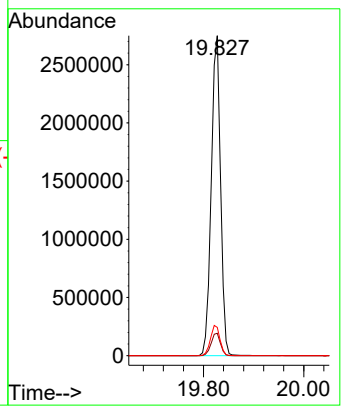


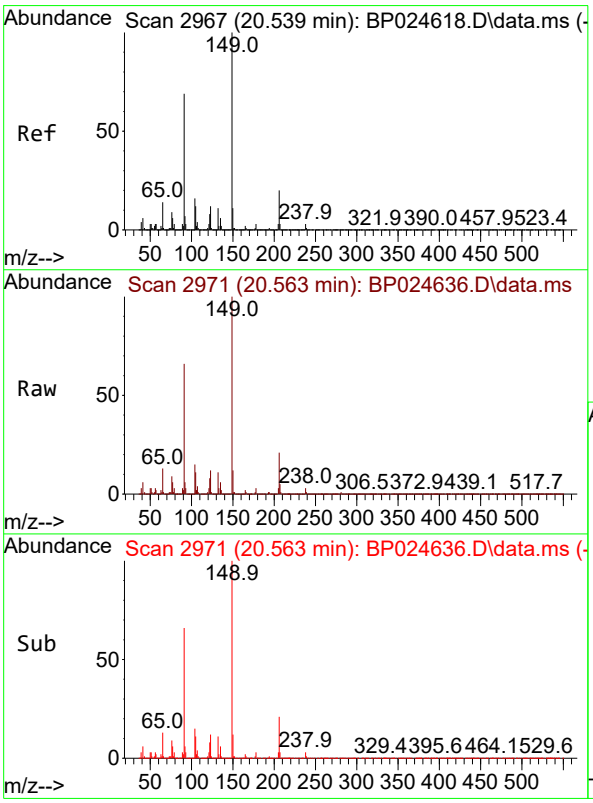
#79
Terphenyl-d14
Concen: 75.970 ng
RT: 19.827 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:244 Resp: 3529175

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	8.8	7.4	11.0

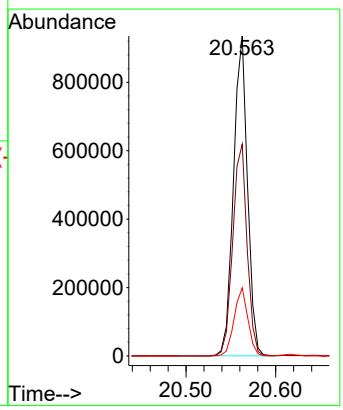


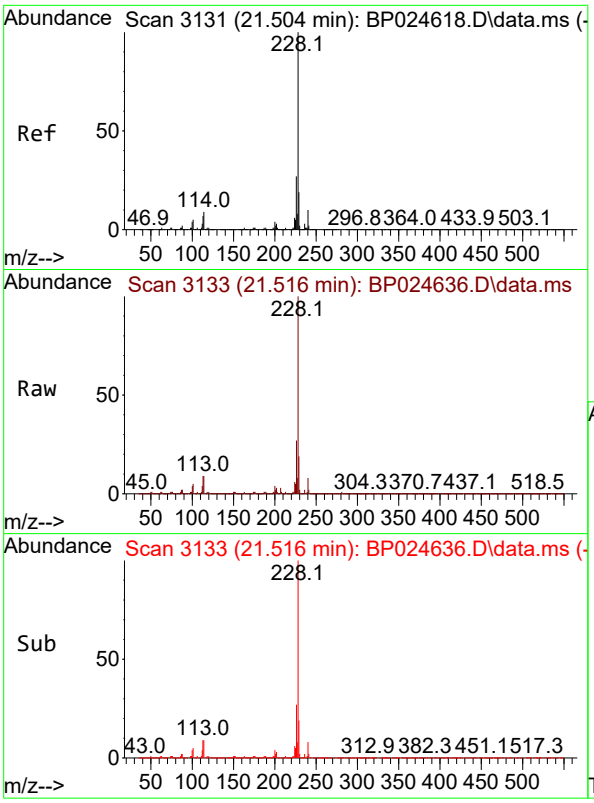


#80
Butylbenzylphthalate
Concen: 47.709 ng
RT: 20.563 min Scan# 2971
Delta R.T. 0.023 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:149 Resp: 1012695

Ion	Ratio	Lower	Upper
149	100		
91	66.2	55.4	83.0
206	21.3	16.2	24.2



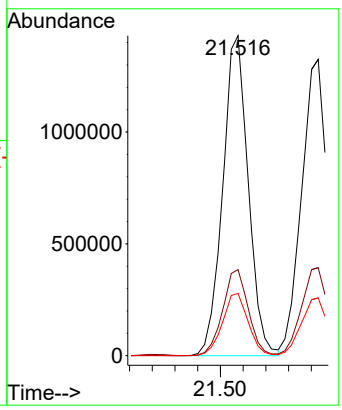


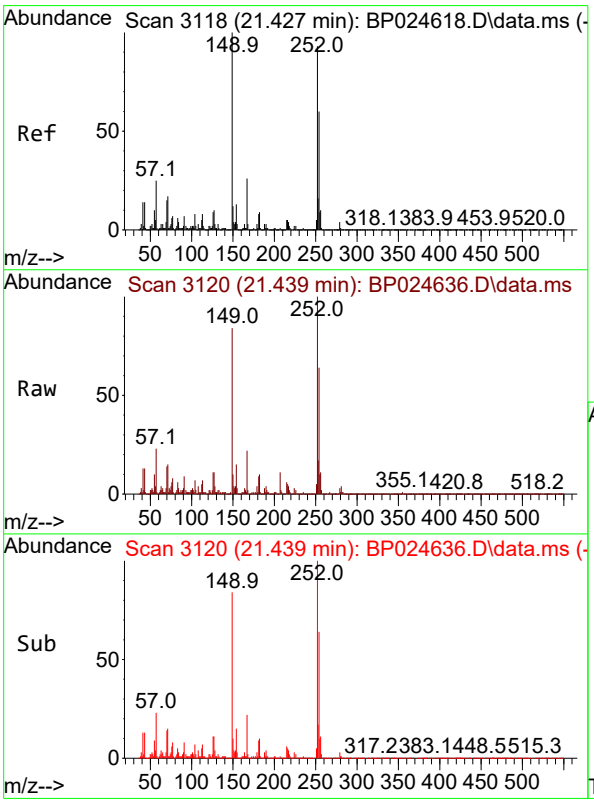
#81
Benzo(a)anthracene
Concen: 44.614 ng
RT: 21.516 min Scan# 31
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:228 Resp: 2231437

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.4	32.0
229	19.5	15.5	23.3

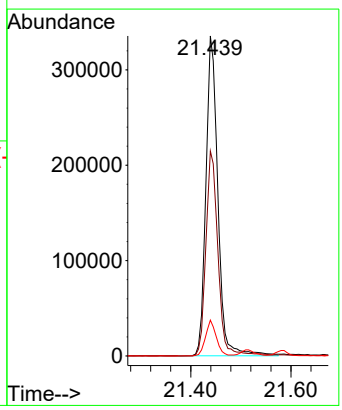


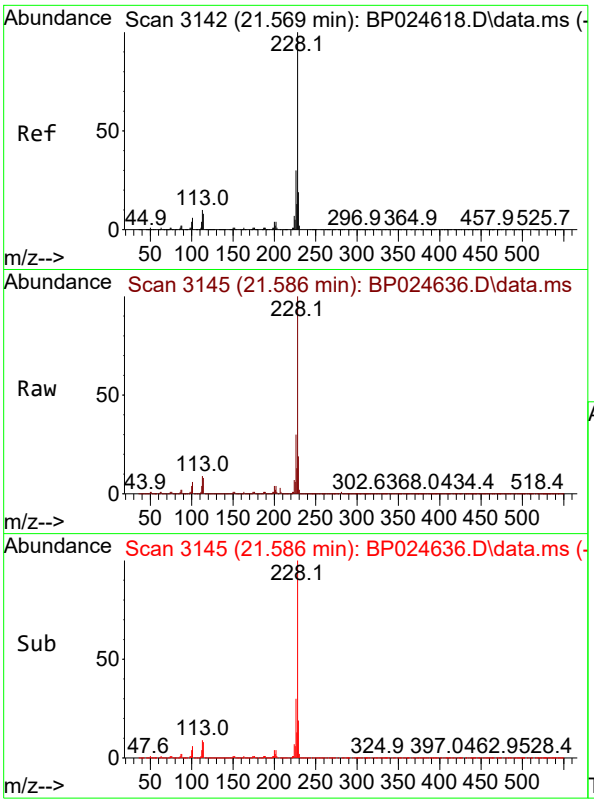


#82
3,3'-Dichlorobenzidine
Concen: 30.082 ng
RT: 21.439 min Scan# 3120
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:252 Resp: 558851

Ion	Ratio	Lower	Upper
252	100		
254	64.1	51.8	77.6
126	11.2	7.7	11.5



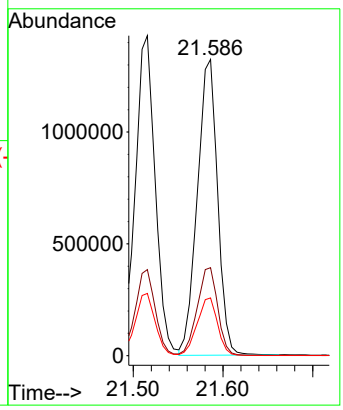


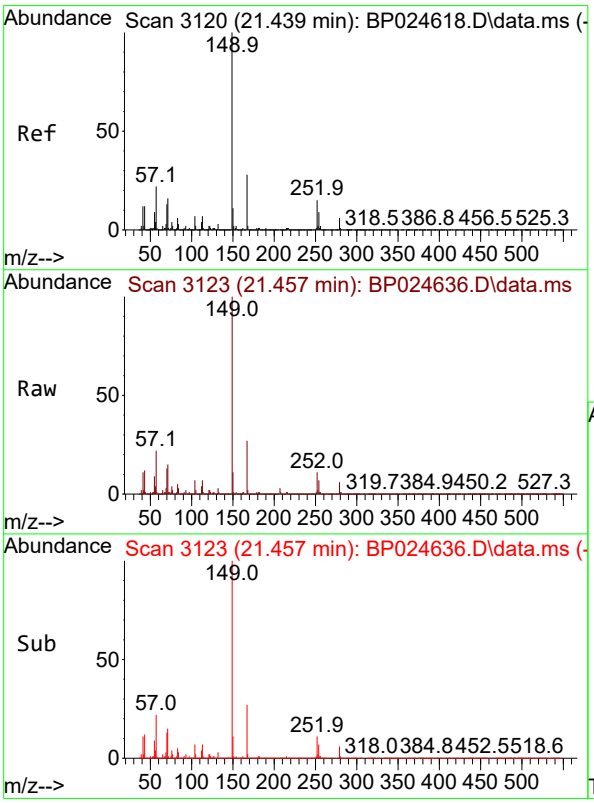
#83
Chrysene
Concen: 43.804 ng
RT: 21.586 min Scan# 3
Delta R.T. 0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:228 Resp: 2076892

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.9	35.9
229	19.5	15.5	23.3

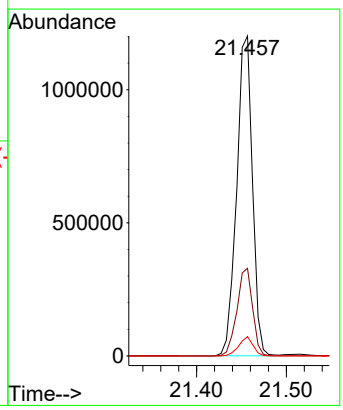


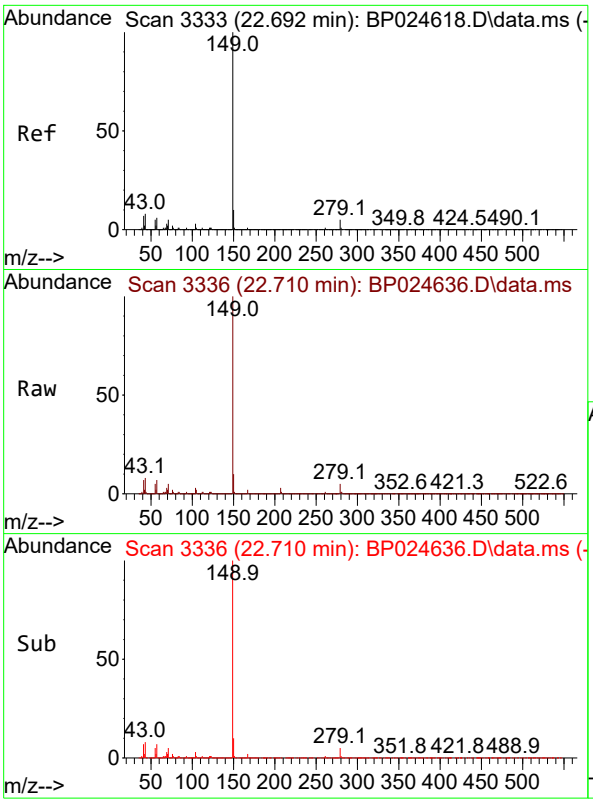


#84
Bis(2-ethylhexyl)phthalate
Concen: 46.960 ng
RT: 21.457 min Scan# 3123
Delta R.T. 0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:149 Resp: 1465106

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.1	33.1
279	6.0	4.6	6.8



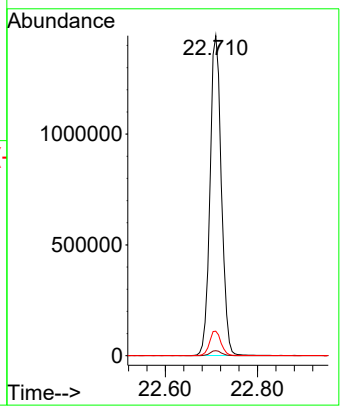


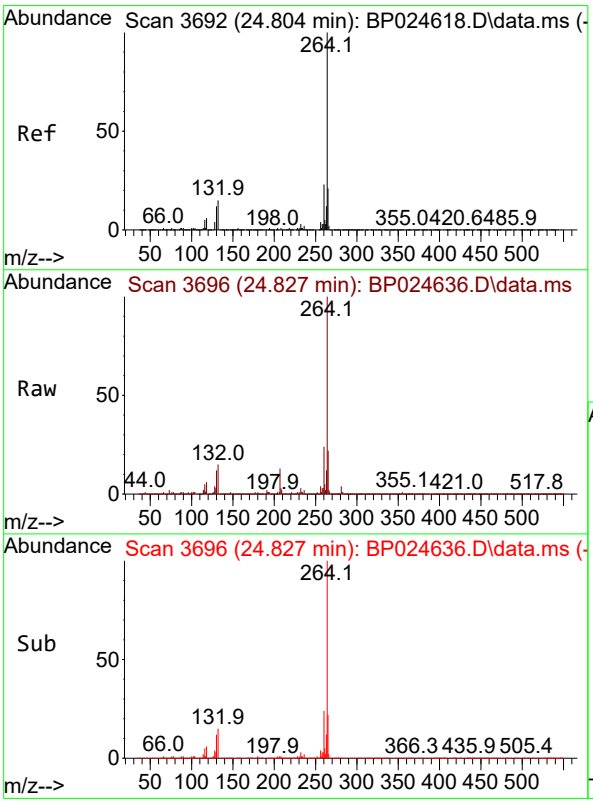
#85
Di-n-octyl phthalate
Concen: 48.391 ng
RT: 22.710 min Scan# 3
Delta R.T. 0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:149 Resp: 2468875

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.8	6.3	9.5

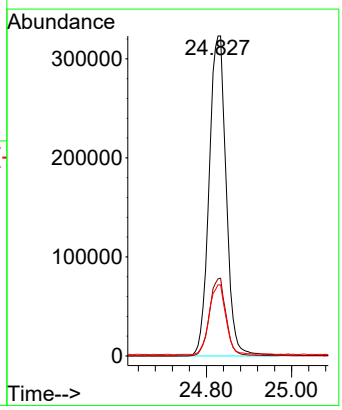


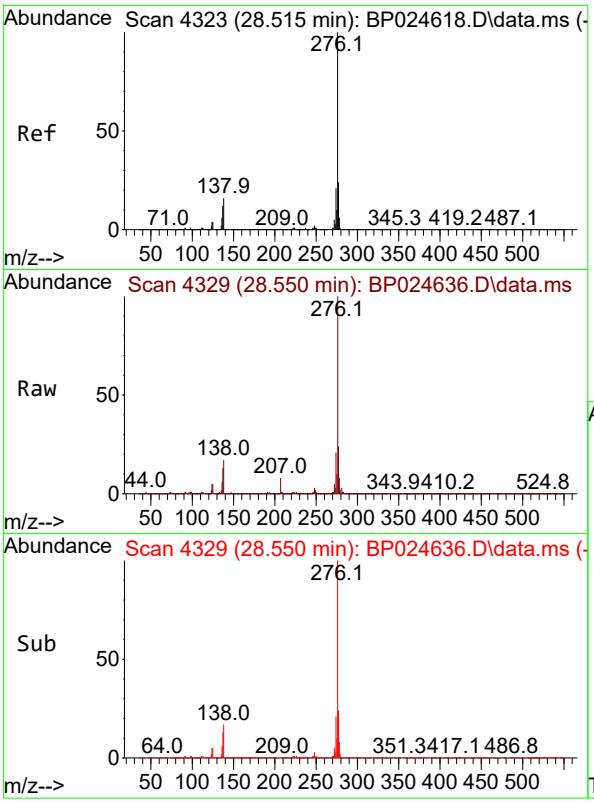


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.827 min Scan# 3696
Delta R.T. 0.023 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:264 Resp: 897451

Ion	Ratio	Lower	Upper
264	100		
260	24.1	18.7	28.1
265	22.2	17.0	25.6



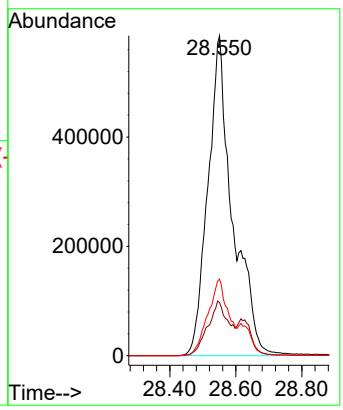


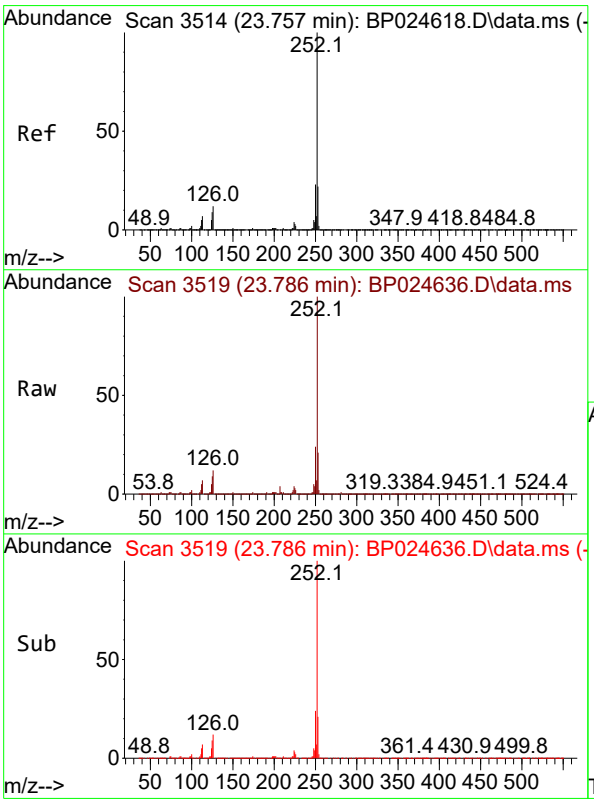
#87
Indeno(1,2,3-cd)pyrene
Concen: 46.398 ng m
RT: 28.550 min Scan# 4
Delta R.T. 0.035 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:276 Resp: 3039943

Ion	Ratio	Lower	Upper
276	100		
138	14.5	11.2	16.8
277	20.2	15.7	23.5

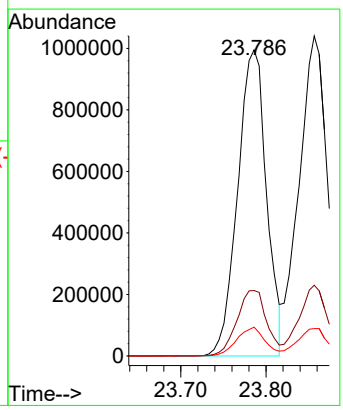


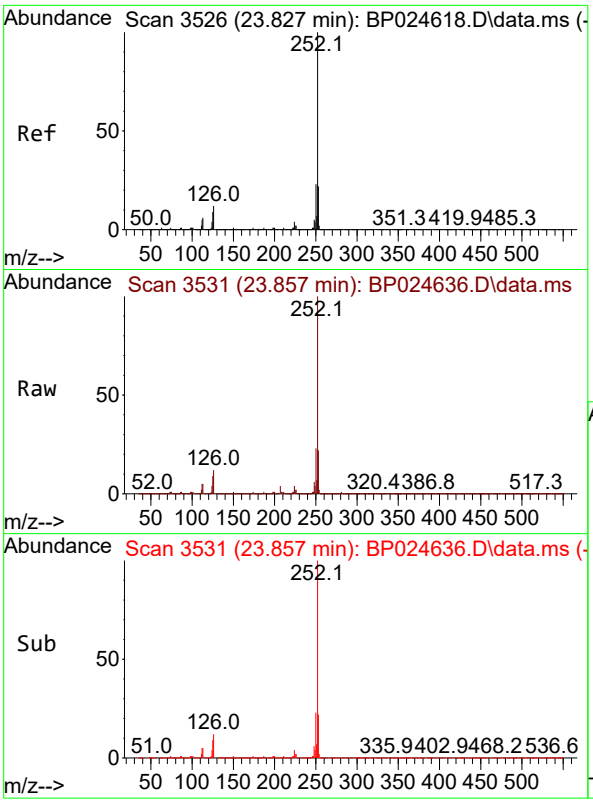


#88
Benzo(b)fluoranthene
Concen: 45.511 ng
RT: 23.786 min Scan# 3519
Delta R.T. 0.029 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:252 Resp: 2337855

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.7	26.5
125	9.4	7.5	11.3



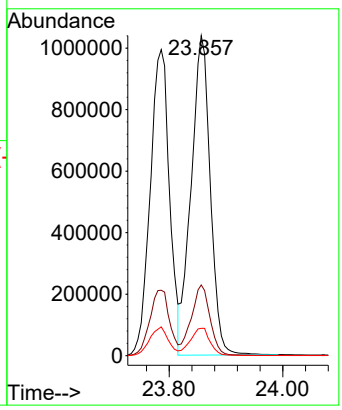


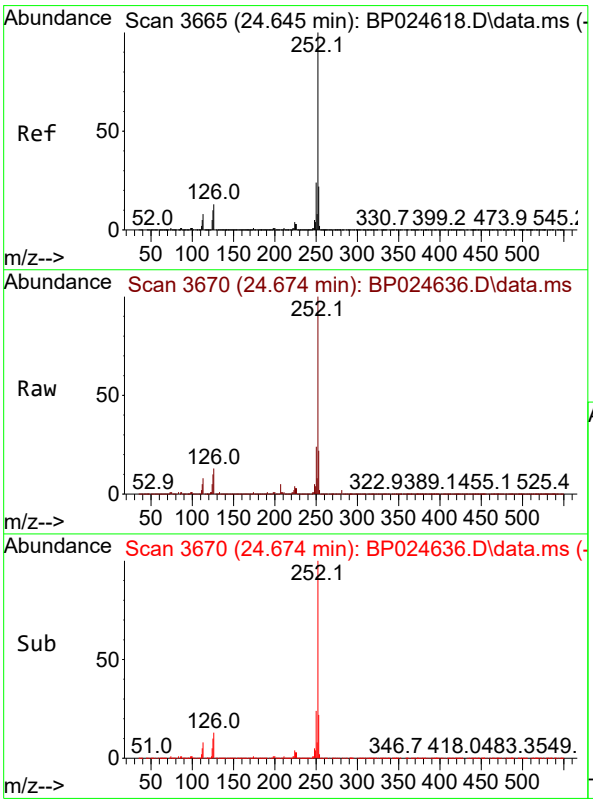
#89
Benzo(k)fluoranthene
Concen: 46.086 ng
RT: 23.857 min Scan# 3
Delta R.T. 0.029 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:252 Resp: 2439419

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	8.5	7.0	10.4

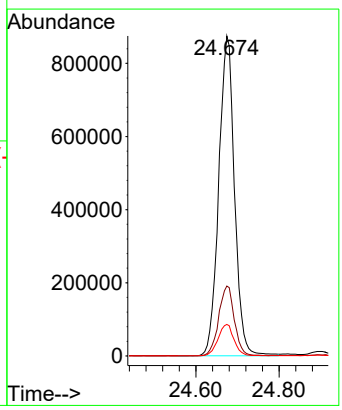


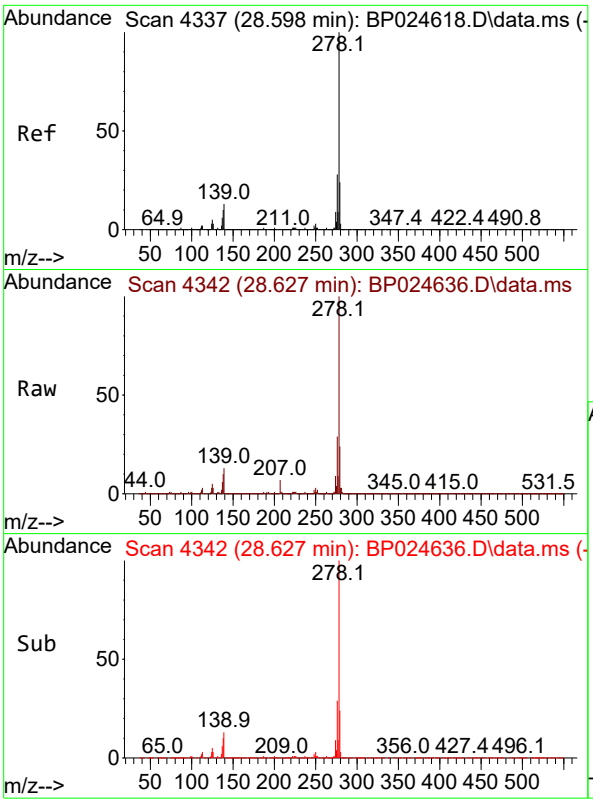


#90
Benzo(a)pyrene
Concen: 46.597 ng
RT: 24.674 min Scan# 3670
Delta R.T. 0.029 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:252 Resp: 2298890

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	9.9	8.1	12.1



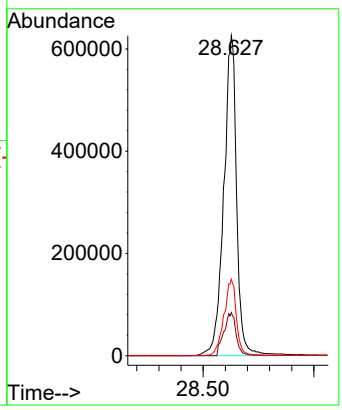


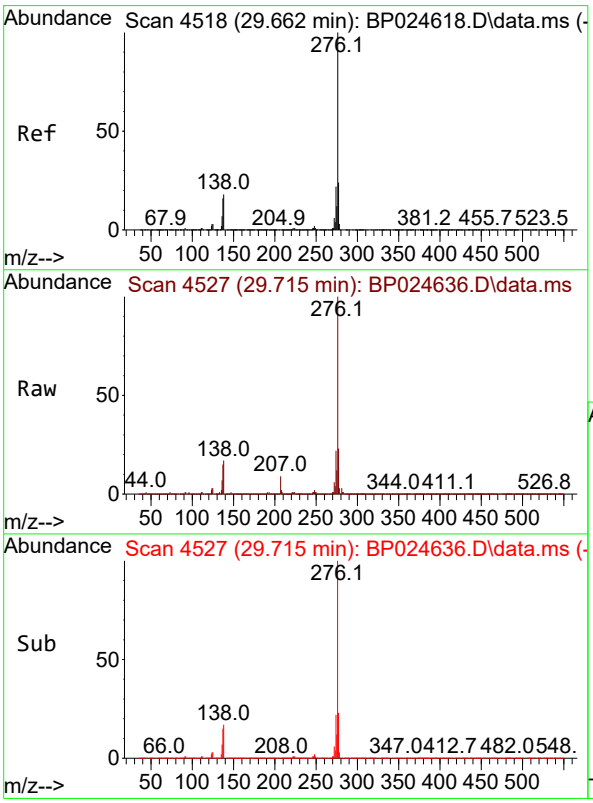
#91
Dibenzo(a,h)anthracene
Concen: 47.273 ng
RT: 28.627 min Scan# 4
Delta R.T. 0.029 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:278 Resp: 2519774

Ion	Ratio	Lower	Upper
278	100		
139	13.5	10.2	15.4
279	23.9	19.0	28.4

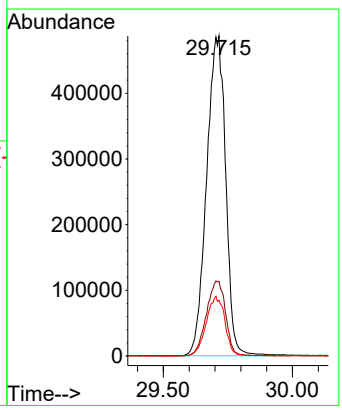




#92
Benzo(g,h,i)perylene
Concen: 47.150 ng
RT: 29.715 min Scan# 4527
Delta R.T. 0.053 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:276 Resp: 2499215

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.0	28.4
138	17.4	14.4	21.6



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

Report of Analysis

Client:	Nobis Group			Date Collected:	
Project:	Raymark Superfund Site			Date Received:	
Client Sample ID:	PB168052BS			SDG No.:	Q1984
Lab Sample ID:	PB168052BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group3
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
BP024705.D	1	05/19/25 09:45	05/20/25 13:14	PB168052

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	1.40		0.023	0.13	0.17	mg/Kg
91-57-6	2-Methylnaphthalene	1.40		0.026	0.13	0.17	mg/Kg
208-96-8	Acenaphthylene	1.50		0.029	0.13	0.17	mg/Kg
83-32-9	Acenaphthene	1.50		0.021	0.13	0.17	mg/Kg
86-73-7	Fluorene	1.50		0.025	0.13	0.17	mg/Kg
85-01-8	Phenanthrene	1.50		0.021	0.13	0.17	mg/Kg
120-12-7	Anthracene	1.50		0.033	0.13	0.17	mg/Kg
206-44-0	Fluoranthene	1.50		0.030	0.13	0.17	mg/Kg
129-00-0	Pyrene	1.50		0.036	0.13	0.17	mg/Kg
56-55-3	Benzo(a)anthracene	1.50		0.023	0.13	0.17	mg/Kg
218-01-9	Chrysene	1.50		0.020	0.13	0.17	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.50		0.019	0.13	0.17	mg/Kg
207-08-9	Benzo(k)fluoranthene	1.50		0.022	0.13	0.17	mg/Kg
50-32-8	Benzo(a)pyrene	1.50		0.030	0.13	0.17	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.50		0.029	0.13	0.17	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	1.50		0.027	0.13	0.17	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.50		0.026	0.13	0.17	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	72.8		37 - 122		73%	SPK: 100
321-60-8	2-Fluorobiphenyl	75.8		44 - 115		76%	SPK: 100
1718-51-0	Terphenyl-d14	78.6		54 - 127		79%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	131000	7.651				
1146-65-2	Naphthalene-d8	515000	10.422				
15067-26-2	Acenaphthene-d10	321000	14.286				
1517-22-2	Phenanthrene-d10	642000	17.08				
1719-03-5	Chrysene-d12	731000	21.51				
1520-96-3	Perylene-d12	846000	24.792				

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

Report of Analysis

Client:	Nobis Group			Date Collected:	
Project:	Raymark Superfund Site			Date Received:	
Client Sample ID:	PB168052BS			SDG No.:	Q1984
Lab Sample ID:	PB168052BS			Matrix:	SOIL
Analytical Method:	8270E			% Solid:	100
Sample Wt/Vol:	30.01	Units:	g	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SVOCMS Group3
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
BP024705.D	1	05/19/25 09:45	05/20/25 13:14	PB168052

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_P\Data\BP052025\
Data File : BP024705.D
Acq On : 20 May 2025 13:14
Operator : RC/JU
Sample : PB168052BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Quant Time: May 20 13:39:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.651	152	131255	20.000	ng		-0.01
21) Naphthalene-d8	10.422	136	515313	20.000	ng		-0.01
39) Acenaphthene-d10	14.286	164	320735	20.000	ng		-0.02
64) Phenanthrene-d10	17.080	188	641657	20.000	ng		-0.02
76) Chrysene-d12	21.510	240	731405	20.000	ng		-0.01
86) Perylene-d12	24.792	264	845958	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.293	112	991831	129.244	ng		0.00
7) Phenol-d6	6.863	99	1182734	120.758	ng		0.01
23) Nitrobenzene-d5	8.804	82	742014	72.755	ng		0.00
42) 2,4,6-Tribromophenol	15.804	330	761810	140.106	ng		0.00
45) 2-Fluorobiphenyl	12.898	172	1856188	75.821	ng		0.00
79) Terphenyl-d14	19.798	244	3354339	78.639	ng		-0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.228	88	117773	32.683	ng		98
3) Pyridine	3.622	79	293143	36.687	ng		96
4) n-Nitrosodimethylamine	3.534	42	151056	42.822	ng		95
6) Aniline	6.999	93	369311	29.206	ng		99
8) 2-Chlorophenol	7.234	128	384015	44.080	ng		100
9) Benzaldehyde	6.810	77	213414	33.661	ng		99
10) Phenol	6.887	94	434172	42.950	ng		98
11) bis(2-Chloroethyl)ether	7.093	93	321375	38.690	ng		99
12) 1,3-Dichlorobenzene	7.546	146	422337	42.137	ng		99
13) 1,4-Dichlorobenzene	7.687	146	428668	42.524	ng		98
14) 1,2-Dichlorobenzene	8.004	146	411468	41.889	ng		99
15) Benzyl Alcohol	7.904	79	315569	42.399	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.169	45	381374	38.338	ng		98
17) 2-Methylphenol	8.116	107	304934	42.058	ng		98
18) Hexachloroethane	8.716	117	157181	40.689	ng		97
19) n-Nitroso-di-n-propyla...	8.457	70	249186	36.780	ng		96
20) 3+4-Methylphenols	8.445	107	406095	41.176	ng		95
22) Acetophenone	8.469	105	547352	42.522	ng	#	99
24) Nitrobenzene	8.845	77	384686	42.861	ng		97
25) Isophorone	9.369	82	697103	39.404	ng		99
26) 2-Nitrophenol	9.545	139	207867	47.264	ng		97
27) 2,4-Dimethylphenol	9.622	122	351044	45.272	ng		98
28) bis(2-Chloroethoxy)met...	9.840	93	423990	40.115	ng		98
29) 2,4-Dichlorophenol	10.098	162	348864	46.428	ng		96
30) 1,2,4-Trichlorobenzene	10.287	180	380200	44.901	ng		99
31) Naphthalene	10.469	128	1155472	43.270	ng		99
32) Benzoic acid	9.804	122	219724	41.839	ng		99
33) 4-Chloroaniline	10.598	127	253333	23.509	ng		98
34) Hexachlorobutadiene	10.757	225	247859	45.186	ng		98
35) Caprolactam	11.392	113	117156	43.094	ng		97
36) 4-Chloro-3-methylphenol	11.739	107	400392	43.695	ng		98
37) 2-Methylnaphthalene	12.081	142	735333	42.527	ng		100
38) 1-Methylnaphthalene	12.304	142	774790	41.878	ng		100
40) 1,2,4,5-Tetrachloroben...	12.457	216	429917	46.159	ng		99
41) Hexachlorocyclopentadiene	12.434	237	544630	96.436	ng		97
43) 2,4,6-Trichlorophenol	12.710	196	291678	48.350	ng		98

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024705.D
Acq On : 20 May 2025 13:14
Operator : RC/JU
Sample : PB168052BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Quant Time: May 20 13:39:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

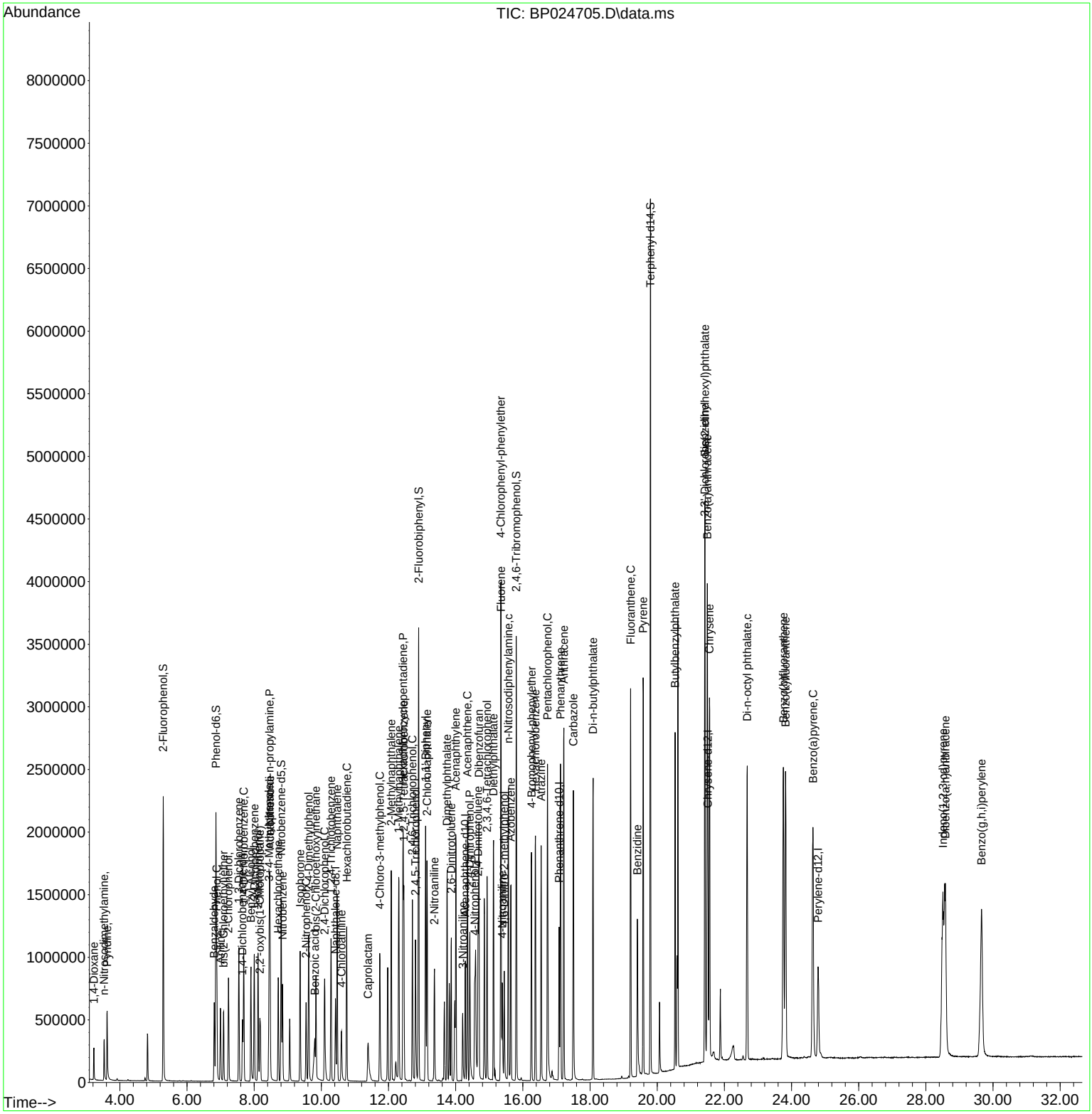
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.804	196	320947	47.795	ng		98
46) 1,1'-Biphenyl	13.104	154	1061178	44.764	ng		100
47) 2-Chloronaphthalene	13.145	162	817893	45.250	ng		98
48) 2-Nitroaniline	13.369	65	240596	44.960	ng		96
49) Acenaphthylene	14.004	152	1334163	44.107	ng		100
50) Dimethylphthalate	13.745	163	1057648	43.264	ng		100
51) 2,6-Dinitrotoluene	13.869	165	226756	43.920	ng		100
52) Acenaphthene	14.351	154	758717	43.631	ng		100
53) 3-Nitroaniline	14.210	138	155750	29.544	ng		99
54) 2,4-Dinitrophenol	14.422	184	290130	88.385	ng		97
55) Dibenzofuran	14.692	168	1213439	43.748	ng		99
56) 4-Nitrophenol	14.569	139	367513	80.496	ng		97
57) 2,4-Dinitrotoluene	14.669	165	344549	47.336	ng		98
58) Fluorene	15.351	166	1016249	44.934	ng		99
59) 2,3,4,6-Tetrachlorophenol	14.933	232	293264	47.078	ng		98
60) Diethylphthalate	15.128	149	1091616	44.180	ng		99
61) 4-Chlorophenyl-phenyle...	15.345	204	503728	44.661	ng		98
62) 4-Nitroaniline	15.386	138	224374	44.079	ng		98
63) Azobenzene	15.639	77	909240	43.016	ng		97
65) 4,6-Dinitro-2-methylph...	15.445	198	198459	47.883	ng		97
66) n-Nitrosodiphenylamine	15.569	169	892757	45.297	ng		99
67) 4-Bromophenyl-phenylether	16.257	248	353232	46.718	ng		97
68) Hexachlorobenzene	16.374	284	447882	46.618	ng		97
69) Atrazine	16.545	200	339746	47.038	ng		99
70) Pentachlorophenol	16.733	266	565886	104.926	ng		99
71) Phenanthrene	17.122	178	1585195	44.440	ng		100
72) Anthracene	17.221	178	1649260	45.955	ng		100
73) Carbazole	17.504	167	1498786	46.141	ng		100
74) Di-n-butylphthalate	18.092	149	1905276	45.607	ng		99
75) Fluoranthene	19.210	202	1883292	45.167	ng		99
77) Benzidine	19.410	184	865814	43.463	ng		99
78) Pyrene	19.580	202	1980054	45.182	ng		99
80) Butylbenzylphthalate	20.533	149	896959	46.021	ng		96
81) Benzo(a)anthracene	21.492	228	2053455	44.712	ng		99
82) 3,3'-Dichlorobenzidine	21.415	252	592220	34.718	ng		100
83) Chrysene	21.557	228	1950677	44.806	ng		99
84) Bis(2-ethylhexyl)phtha...	21.421	149	1318743	46.034	ng		99
85) Di-n-octyl phthalate	22.680	149	2259680	48.236	ng		99
87) Indeno(1,2,3-cd)pyrene	28.509	276	2808165	45.469	ng	#	92
88) Benzo(b)fluoranthene	23.756	252	2233491	46.126	ng		99
89) Benzo(k)fluoranthene	23.821	252	2270983	45.515	ng		100
90) Benzo(a)pyrene	24.639	252	2133961	45.887	ng		99
91) Dibenzo(a,h)anthracene	28.580	278	2300458	45.786	ng		99
92) Benzo(g,h,i)perylene	29.656	276	2241059	44.853	ng		98

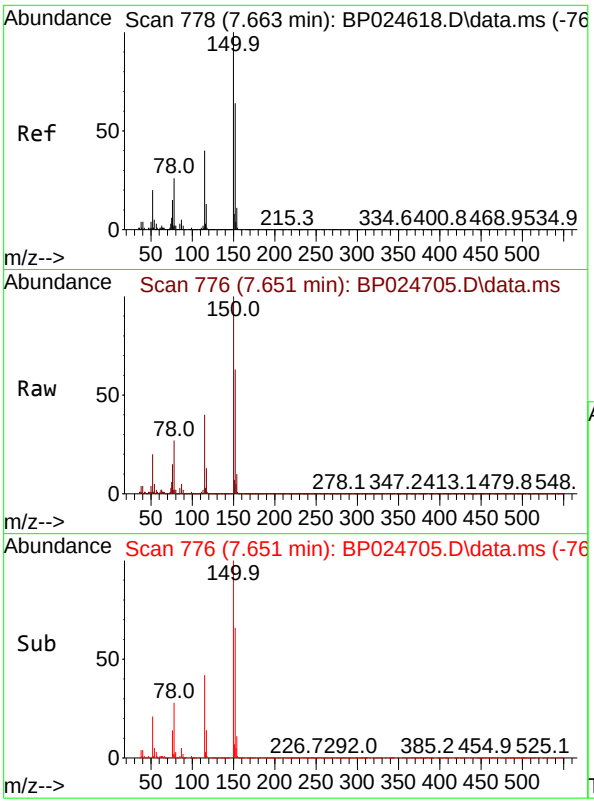
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024705.D
Acq On : 20 May 2025 13:14
Operator : RC/JU
Sample : PB168052BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Quant Time: May 20 13:39:16 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



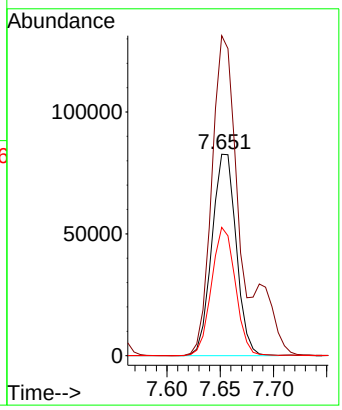


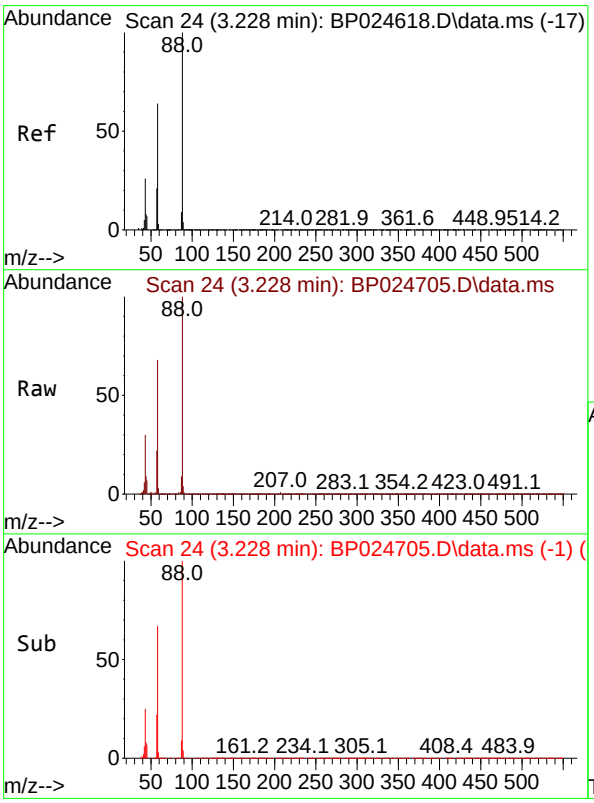
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.651 min Scan# 7
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:152 Resp: 131255

Ion	Ratio	Lower	Upper
152	100		
150	158.8	125.9	188.9
115	63.7	50.1	75.1

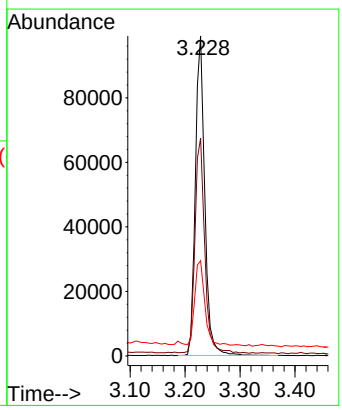


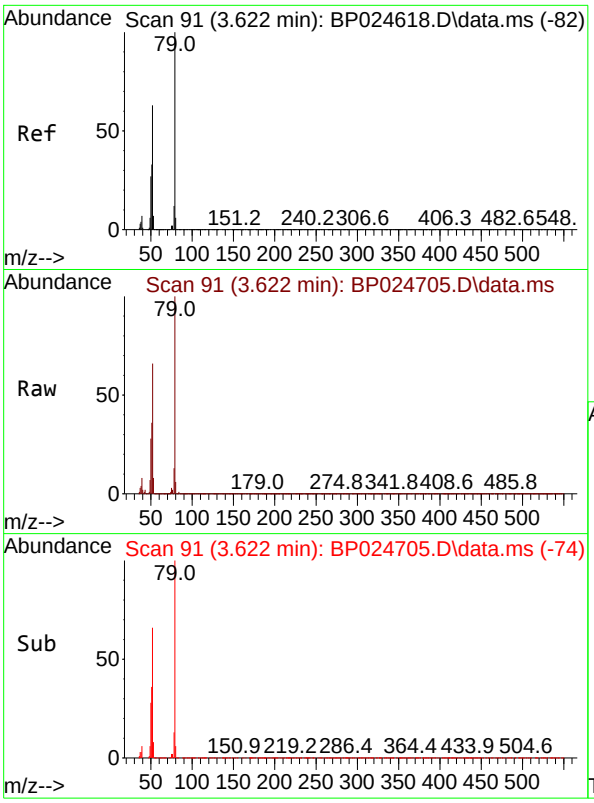


#2
1,4-Dioxane
Concen: 32.683 ng
RT: 3.228 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion: 88 Resp: 117773

Ion	Ratio	Lower	Upper
88	100		
58	69.6	54.0	81.0
43	27.9	21.4	32.0



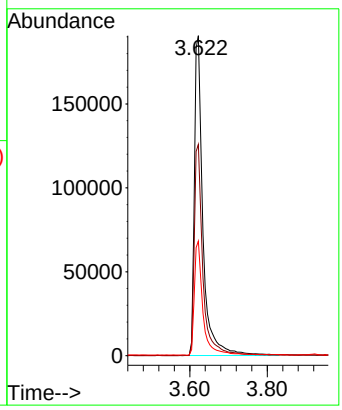


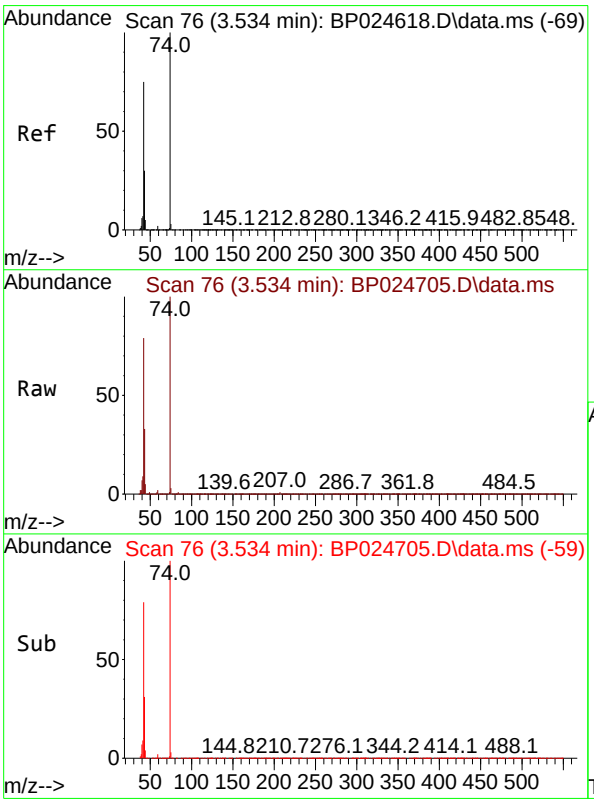
#3
Pyridine
Concen: 36.687 ng
RT: 3.622 min Scan# 91
Delta R.T. -0.000 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion: 79 Resp: 293143

Ion	Ratio	Lower	Upper
79	100		
52	66.0	50.2	75.2
51	35.8	26.8	40.2

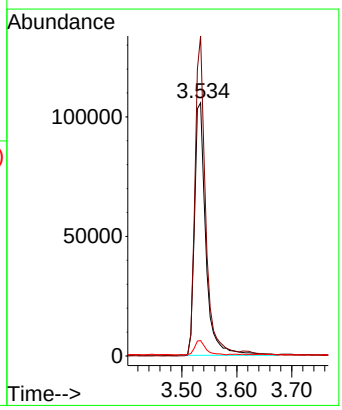


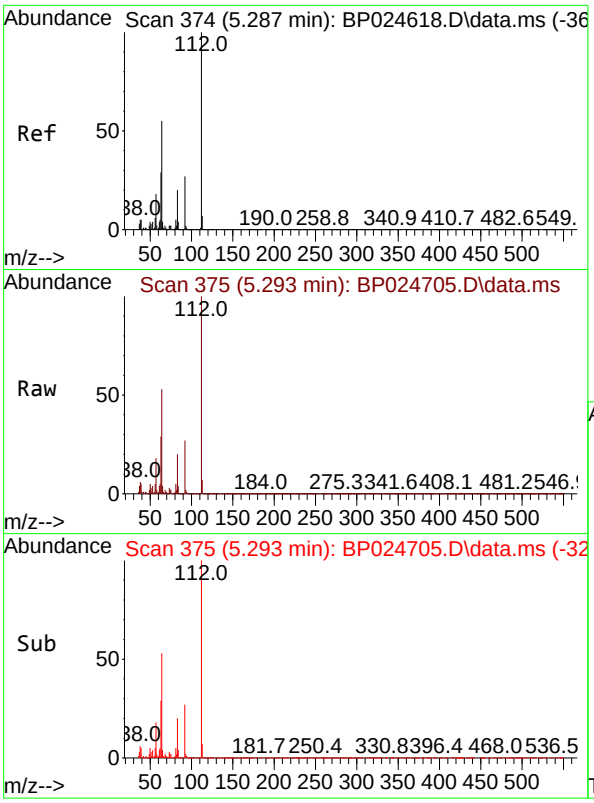


#4
n-Nitrosodimethylamine
Concen: 42.822 ng
RT: 3.534 min Scan# 76
Delta R.T. -0.000 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion: 42 Resp: 151056

Ion	Ratio	Lower	Upper
42	100		
74	126.4	106.2	159.2
44	6.1	5.4	8.2



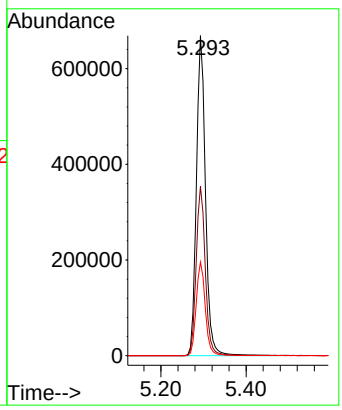


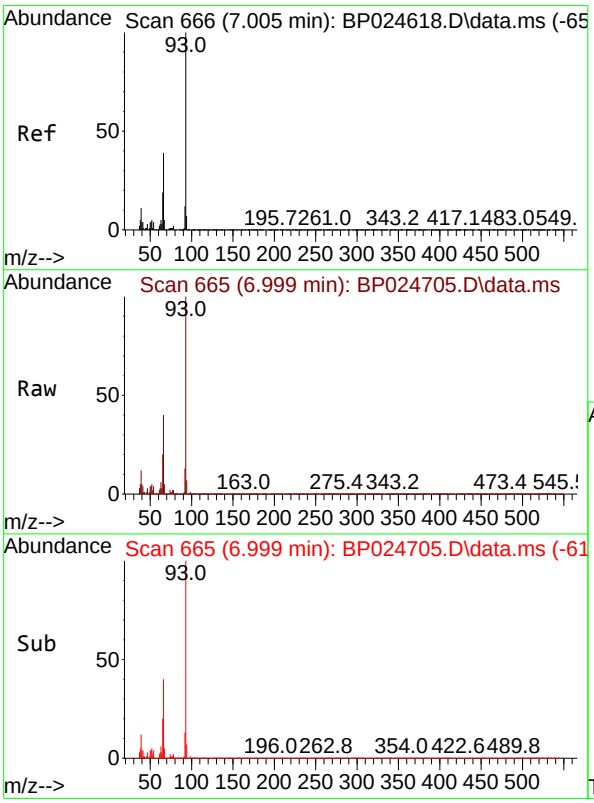
#5
2-Fluorophenol
Concen: 129.244 ng
RT: 5.293 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:112 Resp: 991831

Ion	Ratio	Lower	Upper
112	100		
64	52.9	44.1	66.1
63	29.3	23.5	35.3

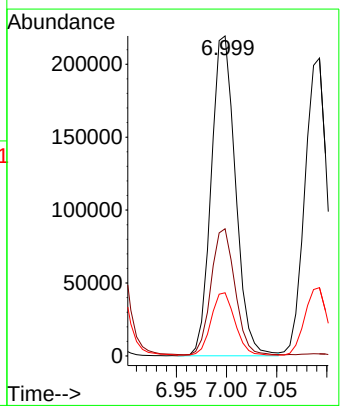


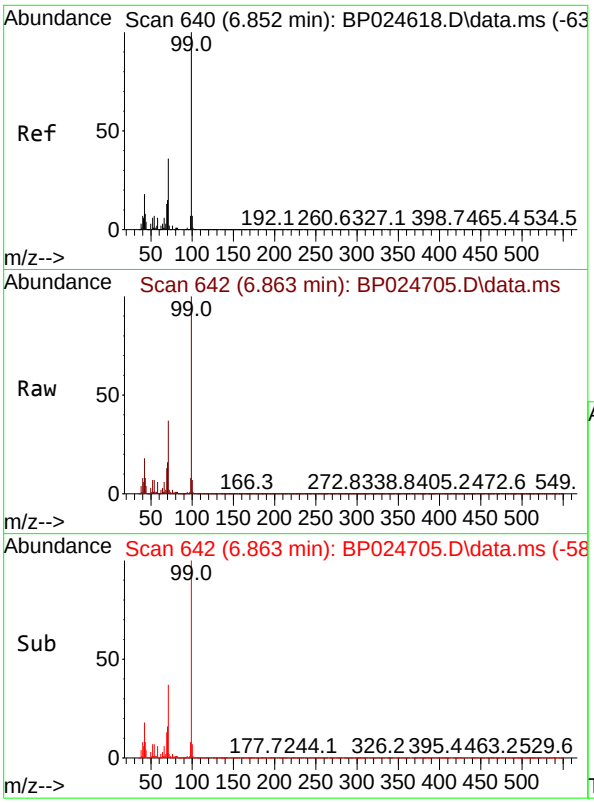


#6
Aniline
Concen: 29.206 ng
RT: 6.999 min Scan# 665
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion: 93 Resp: 369311

Ion	Ratio	Lower	Upper
93	100		
66	39.8	31.0	46.6
65	19.7	15.5	23.3



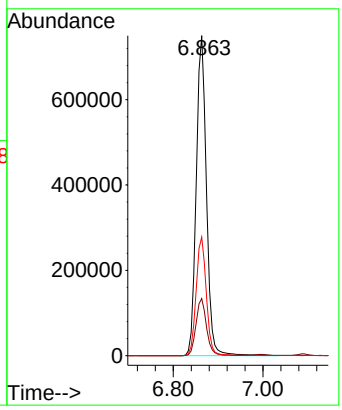


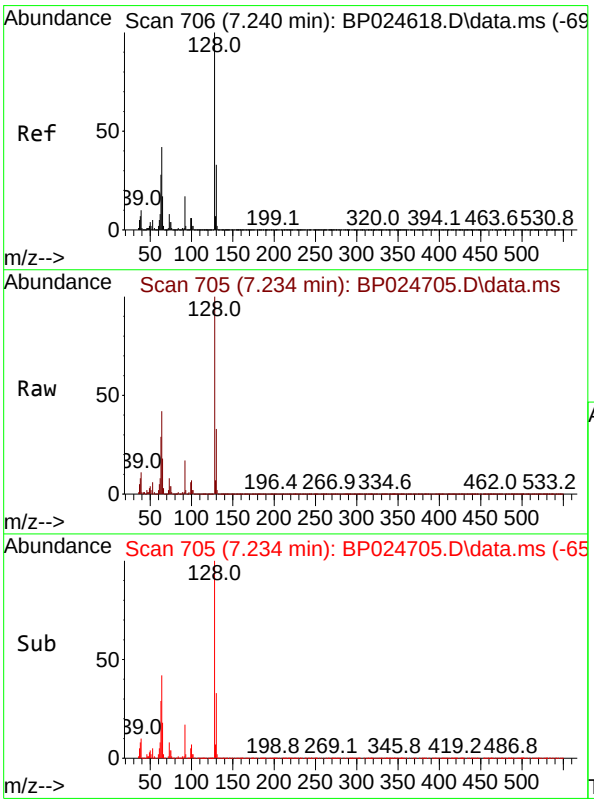
#7
Phenol-d6
Concen: 120.758 ng
RT: 6.863 min Scan# 64
Delta R.T. 0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion: 99 Resp: 1182734

Ion	Ratio	Lower	Upper
99	100		
42	17.8	14.4	21.6
71	37.0	29.2	43.8

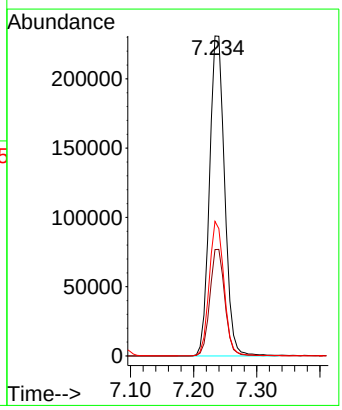


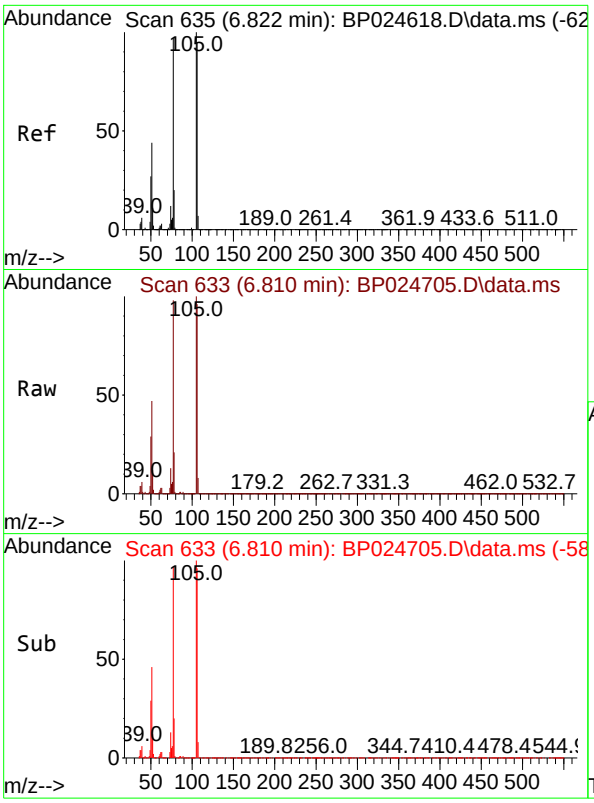


#8
2-Chlorophenol
Concen: 44.080 ng
RT: 7.234 min Scan# 705
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:128 Resp: 384015

Ion	Ratio	Lower	Upper
128	100		
130	33.2	13.0	53.0
64	42.1	22.3	62.3



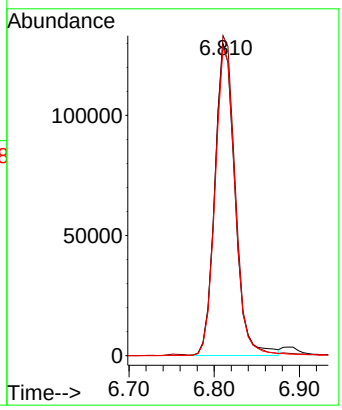


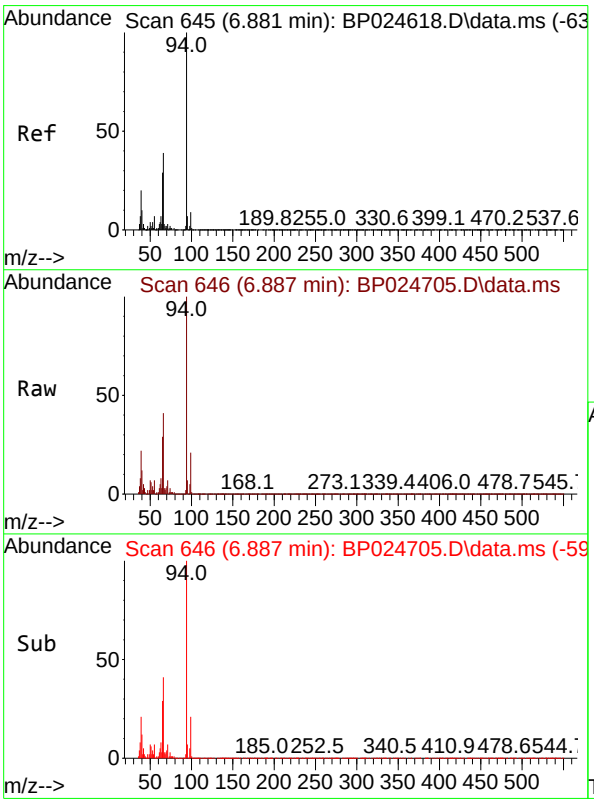
#9
Benzaldehyde
Concen: 33.661 ng
RT: 6.810 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion: 77 Resp: 213414

Ion	Ratio	Lower	Upper
77	100		
105	102.5	83.3	123.3
106	98.8	78.0	118.0

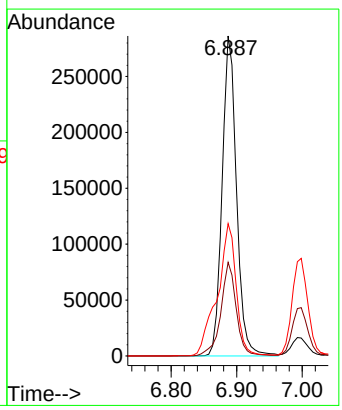


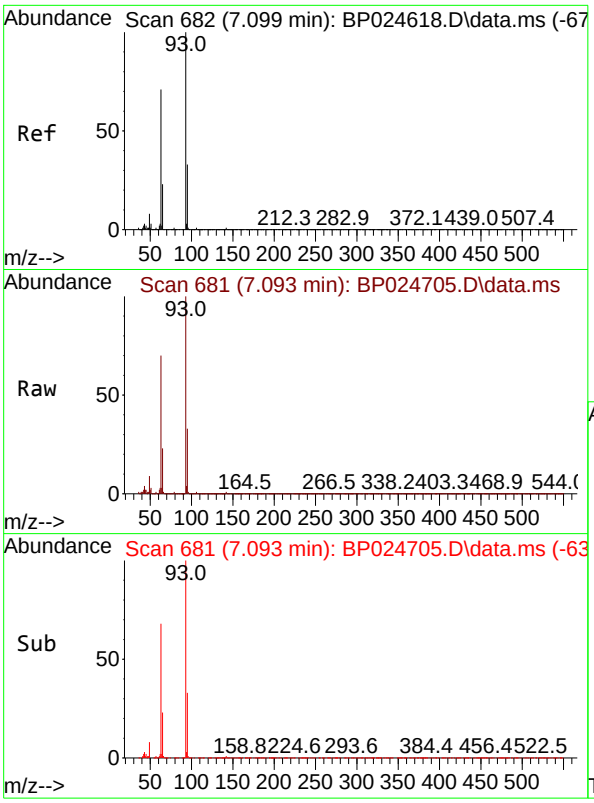


#10
Phenol
Concen: 42.950 ng
RT: 6.887 min Scan# 646
Delta R.T. 0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion: 94 Resp: 434172

Ion	Ratio	Lower	Upper
94	100		
65	29.2	8.7	48.7
66	41.3	19.4	59.4



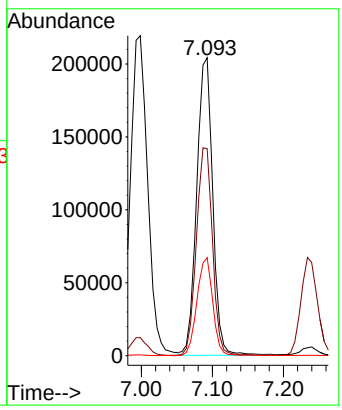


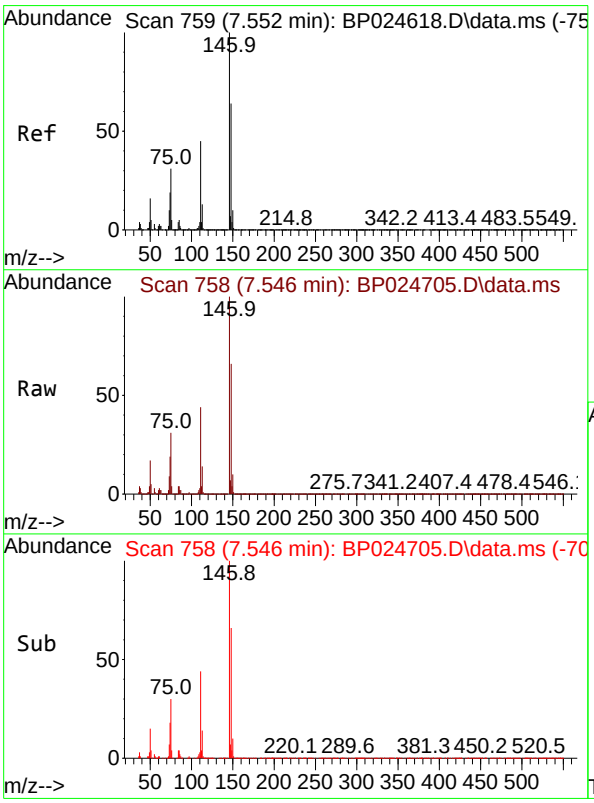
#11
bis(2-Chloroethyl)ether
Concen: 38.690 ng
RT: 7.093 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion: 93 Resp: 321375

Ion	Ratio	Lower	Upper
93	100		
63	69.5	50.6	90.6
95	32.9	12.9	52.9

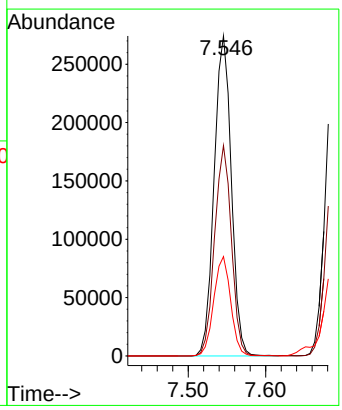


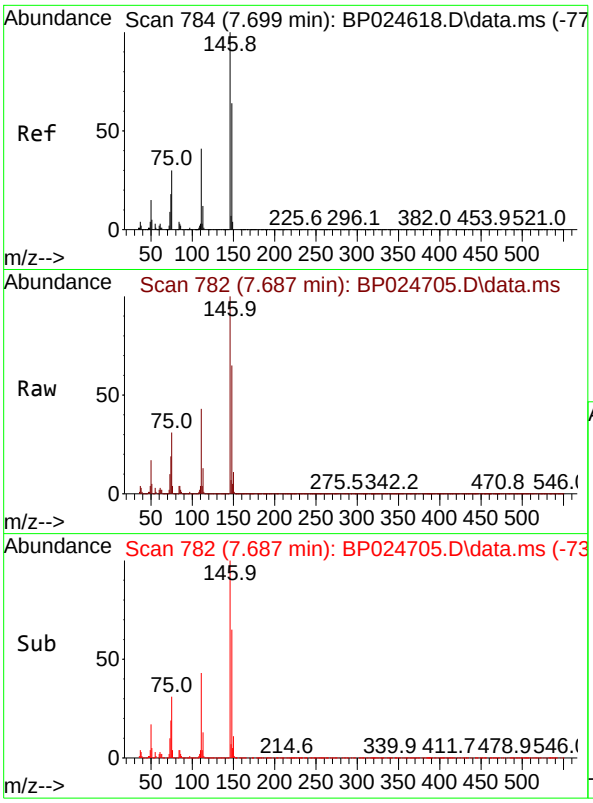


#12
1,3-Dichlorobenzene
Concen: 42.137 ng
RT: 7.546 min Scan# 758
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:146 Resp: 422337

Ion	Ratio	Lower	Upper
146	100		
148	65.7	51.4	77.2
75	31.1	25.2	37.8



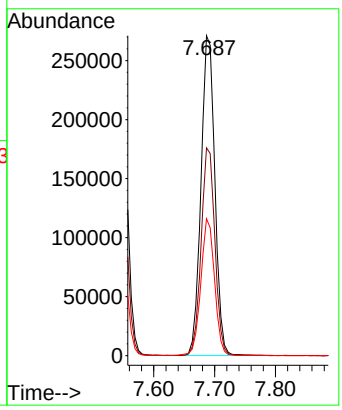


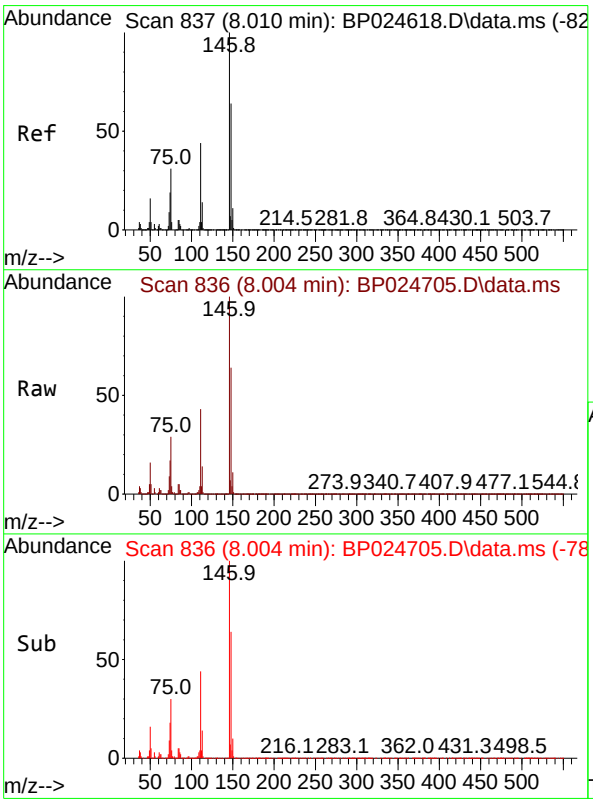
#13
1,4-Dichlorobenzene
Concen: 42.524 ng
RT: 7.687 min Scan# 7
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:146 Resp: 428668

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.0	76.6
111	42.8	33.0	49.6

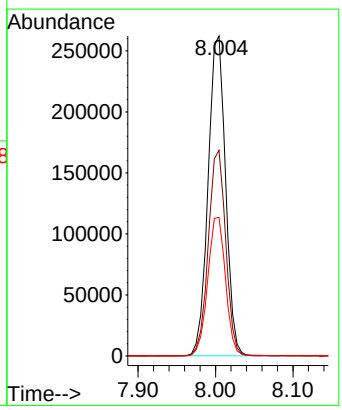


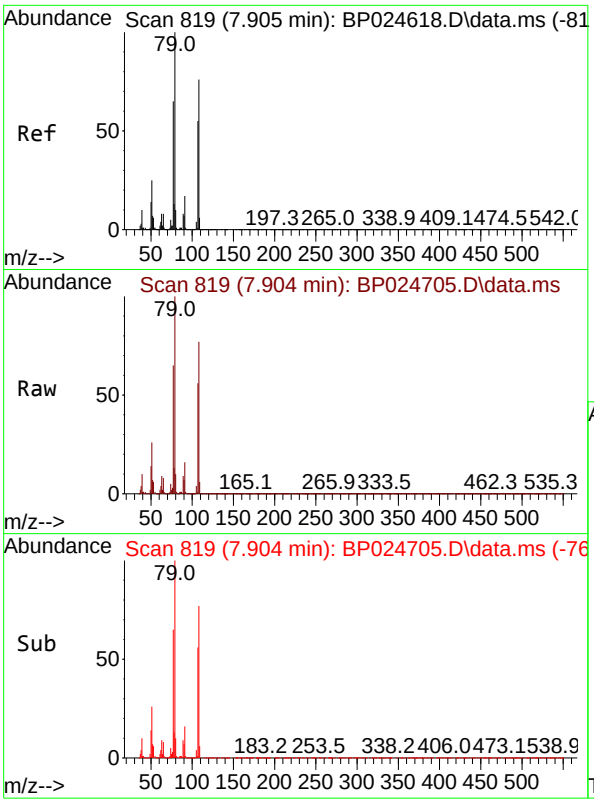


#14
1,2-Dichlorobenzene
Concen: 41.889 ng
RT: 8.004 min Scan# 836
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:146 Resp: 411468

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.0	76.4
111	43.3	35.2	52.8



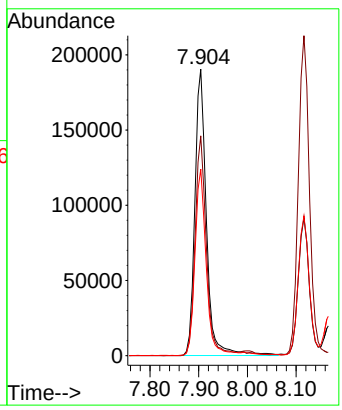


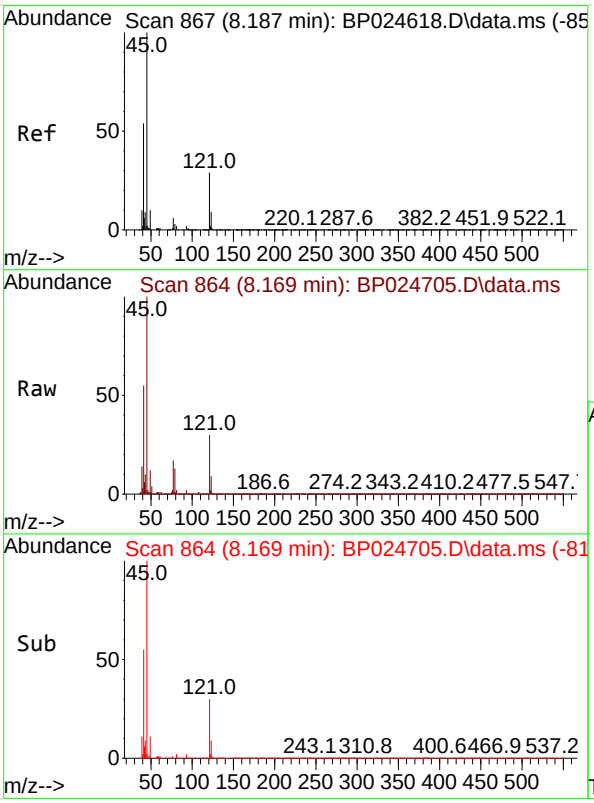
#15
Benzyl Alcohol
Concen: 42.399 ng
RT: 7.904 min Scan# 81
Delta R.T. -0.000 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion: 79 Resp: 315569

Ion	Ratio	Lower	Upper
79	100		
108	76.7	60.8	91.2
77	65.1	51.9	77.9

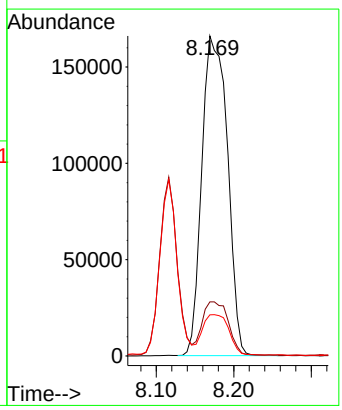


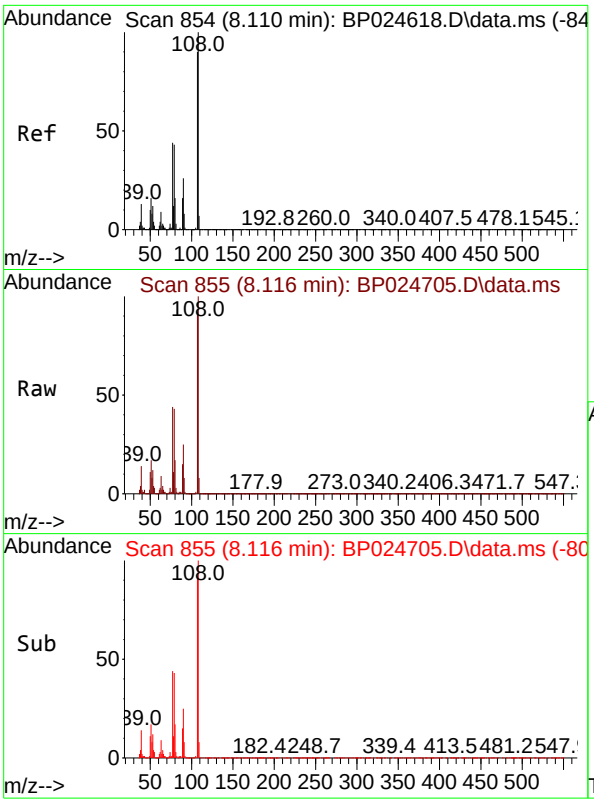


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.338 ng
RT: 8.169 min Scan# 864
Delta R.T. -0.018 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion: 45 Resp: 381374

Ion	Ratio	Lower	Upper
45	100		
77	16.9	0.0	37.7
79	12.8	0.0	34.0



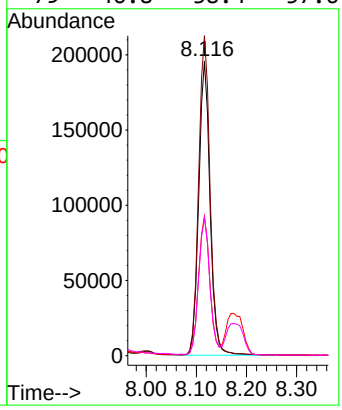


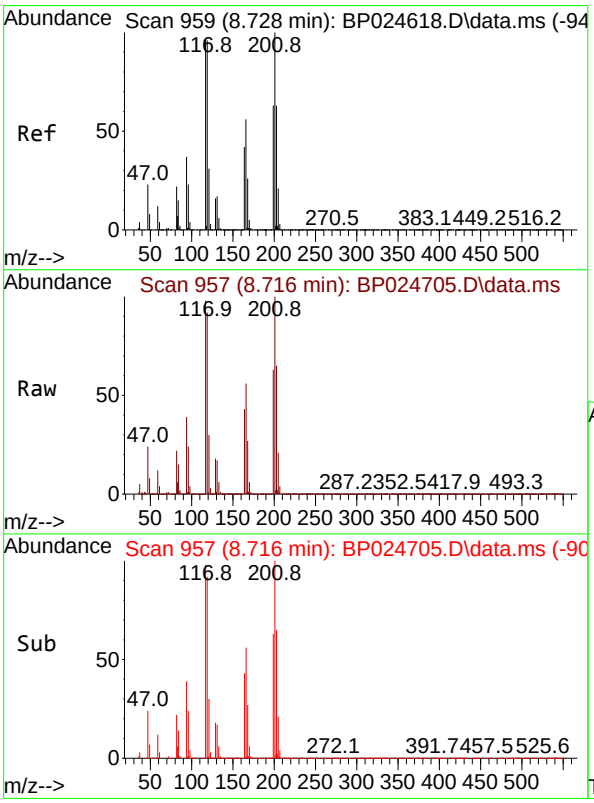
#17
2-Methylphenol
Concen: 42.058 ng
RT: 8.116 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:107 Resp: 304934

Ion	Ratio	Lower	Upper
107	100		
108	108.7	88.9	133.3
77	47.4	39.0	58.6
79	46.8	38.4	57.6

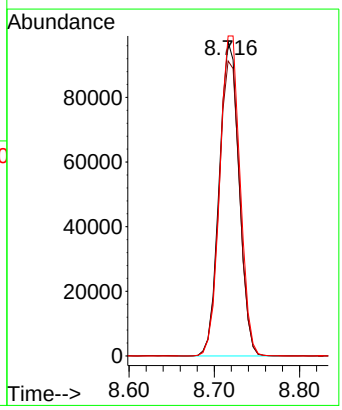


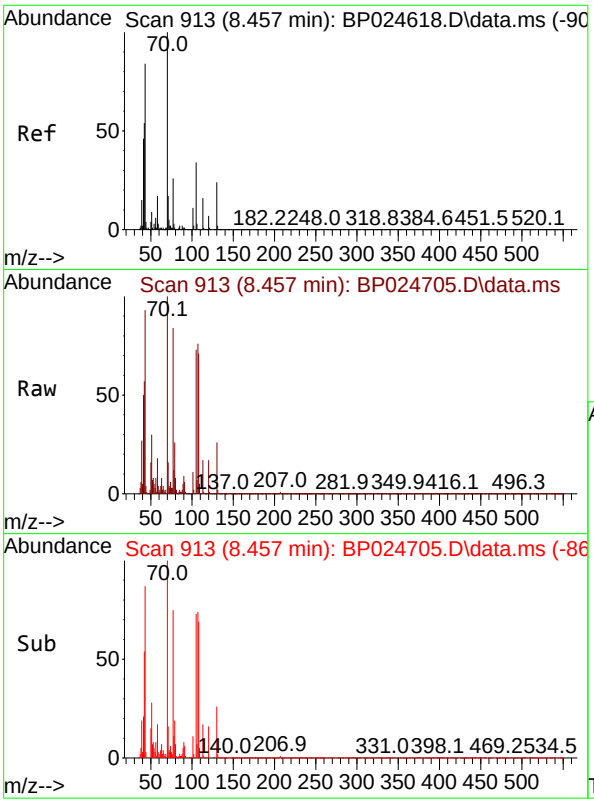


#18
Hexachloroethane
Concen: 40.689 ng
RT: 8.716 min Scan# 957
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:117 Resp: 157181

Ion	Ratio	Lower	Upper
117	100		
119	93.9	79.4	119.0
201	101.8	82.7	124.1



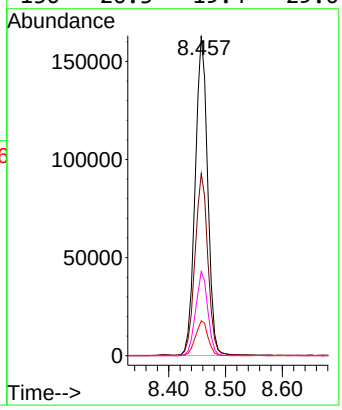


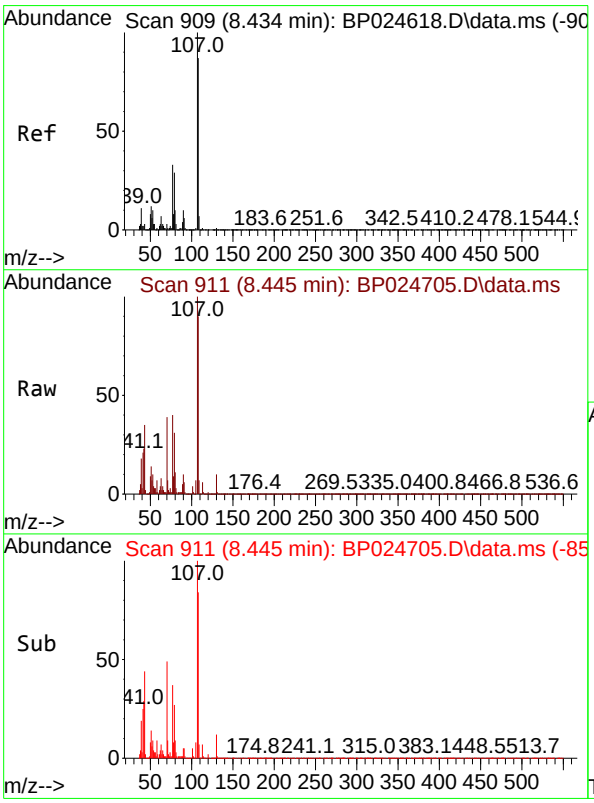
#19
n-Nitroso-di-n-propylamine
Concen: 36.780 ng
RT: 8.457 min Scan# 91
Delta R.T. -0.000 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion: 70 Resp: 249186

Ion	Ratio	Lower	Upper
70	100		
42	56.9	43.0	64.6
101	10.9	8.7	13.1
130	26.3	19.4	29.0

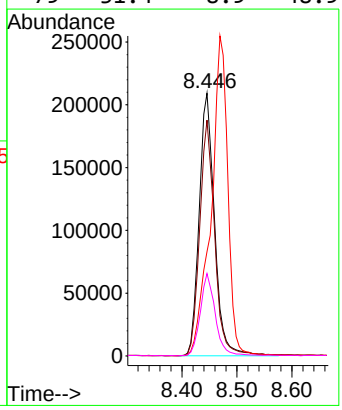


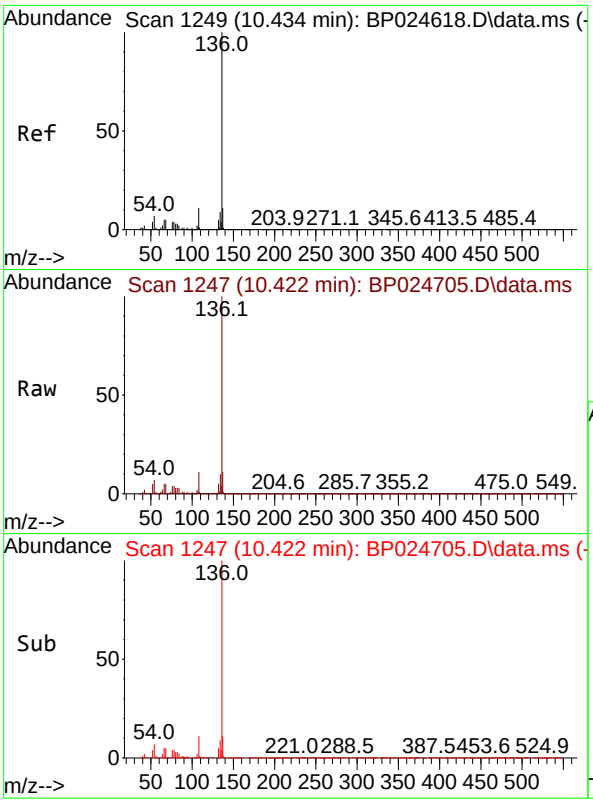


#20
3+4-Methylphenols
Concen: 41.176 ng
RT: 8.445 min Scan# 911
Delta R.T. 0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:107 Resp: 406095

Ion	Ratio	Lower	Upper
107	100		
108	89.7	66.7	106.7
77	39.7	13.1	53.1
79	31.4	8.9	48.9



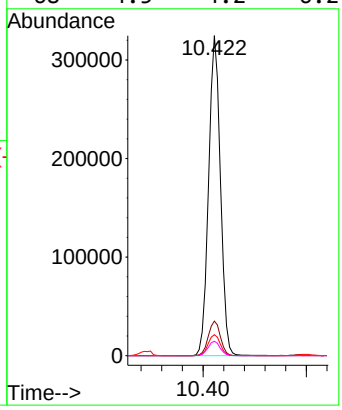


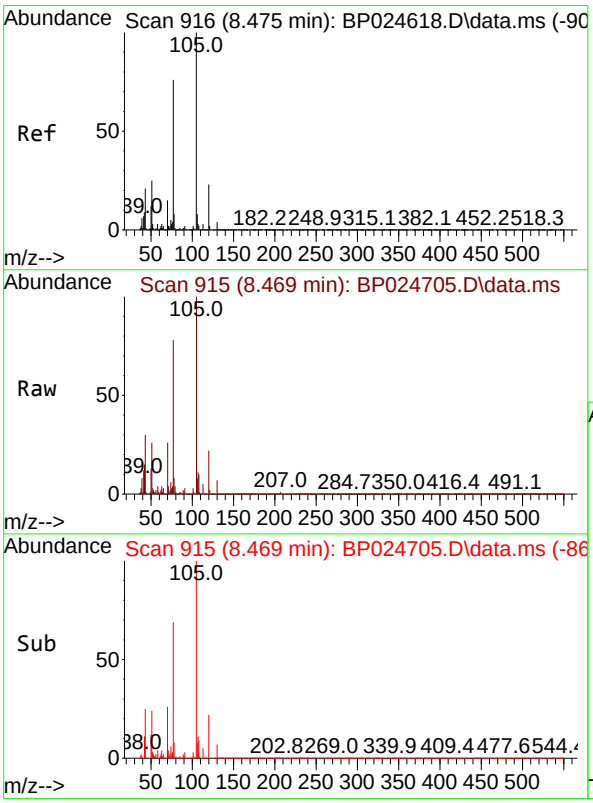
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:136 Resp: 515313

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	6.6	5.5	8.3
68	4.5	4.2	6.2

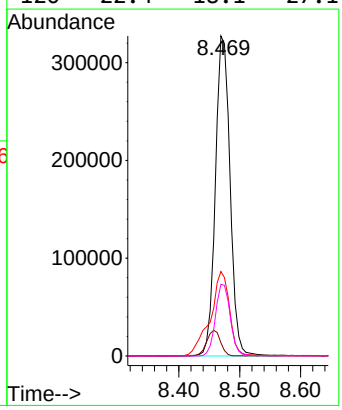


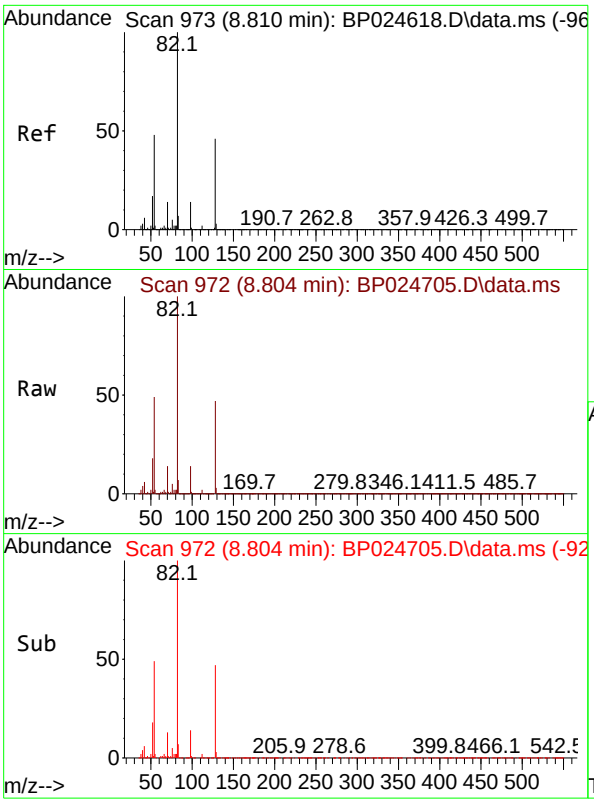


#22
Acetophenone
Concen: 42.522 ng
RT: 8.469 min Scan# 915
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:105 Resp: 547352

Ion	Ratio	Lower	Upper
105	100		
71	4.1	2.0	3.0#
51	26.4	20.4	30.6
120	22.4	18.1	27.1



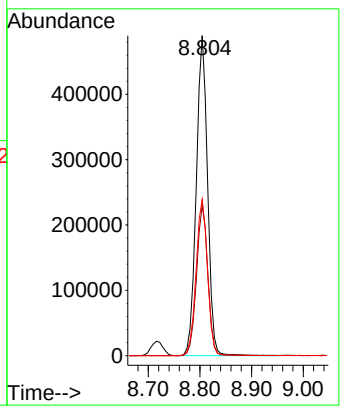


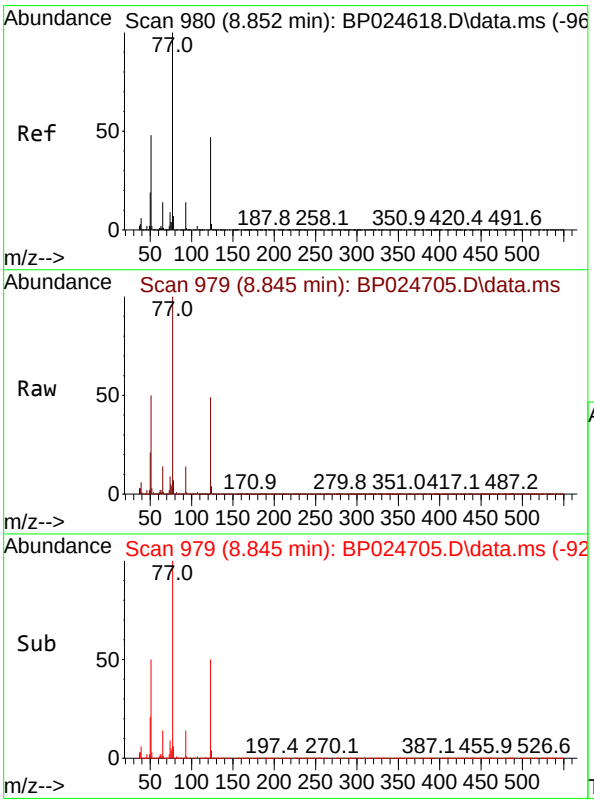
#23
Nitrobenzene-d5
Concen: 72.755 ng
RT: 8.804 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion: 82 Resp: 742014

Ion	Ratio	Lower	Upper
82	100		
128	47.0	37.0	55.4
54	48.9	38.7	58.1

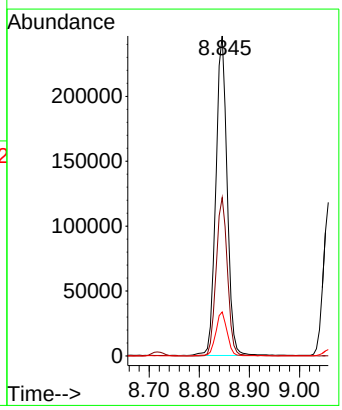


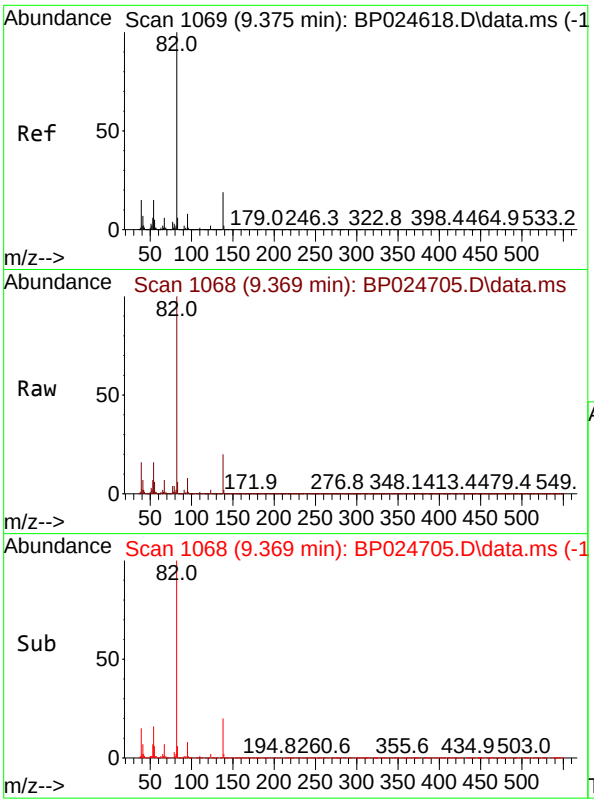


#24
Nitrobenzene
Concen: 42.861 ng
RT: 8.845 min Scan# 979
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion: 77 Resp: 384686

Ion	Ratio	Lower	Upper
77	100		
123	49.5	37.4	56.0
65	13.7	11.3	16.9



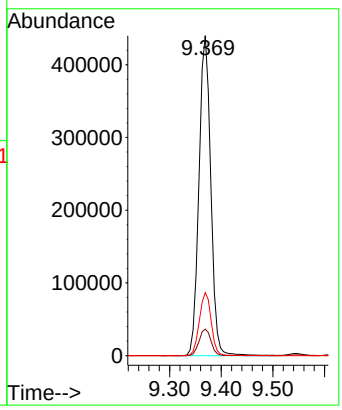


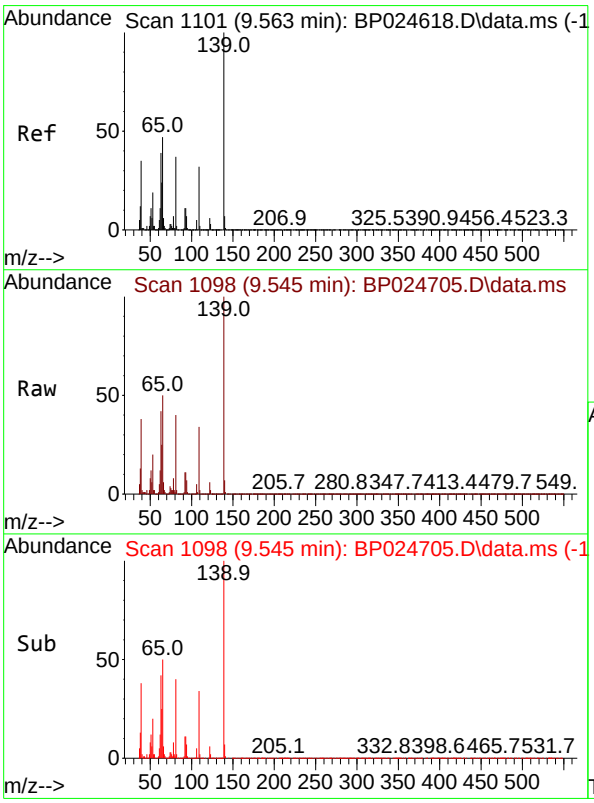
#25
Isophorone
Concen: 39.404 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion: 82 Resp: 697103

Ion	Ratio	Lower	Upper
82	100		
95	8.3	6.3	9.5
138	19.7	15.3	22.9

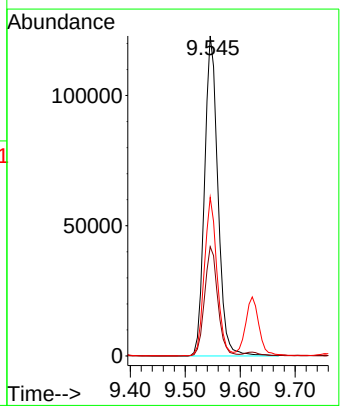


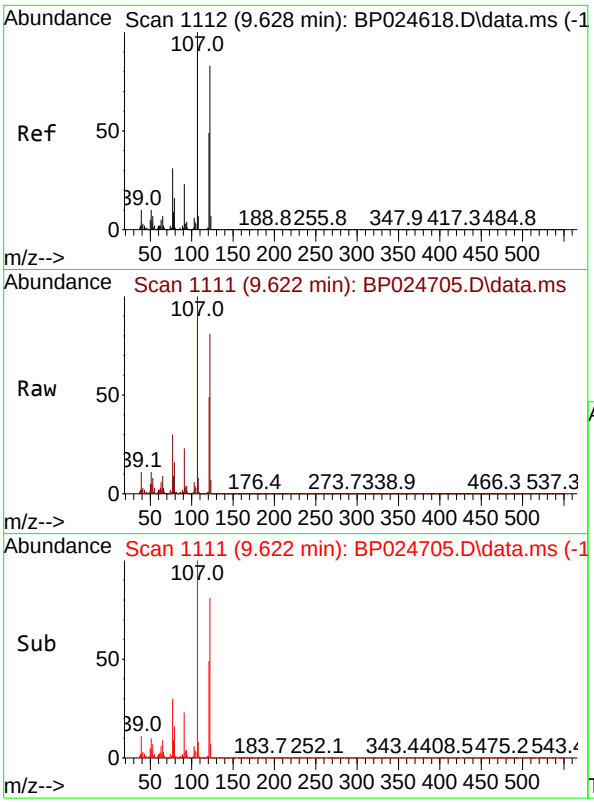


#26
2-Nitrophenol
Concen: 47.264 ng
RT: 9.545 min Scan# 1098
Delta R.T. -0.018 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:139 Resp: 207867

Ion	Ratio	Lower	Upper
139	100		
109	34.1	25.9	38.9
65	49.6	37.9	56.9



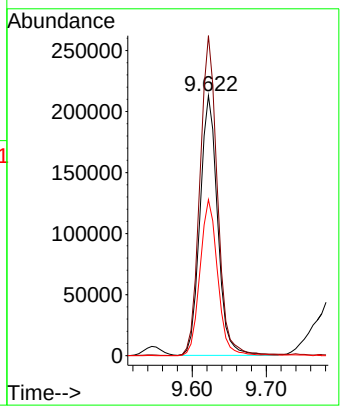


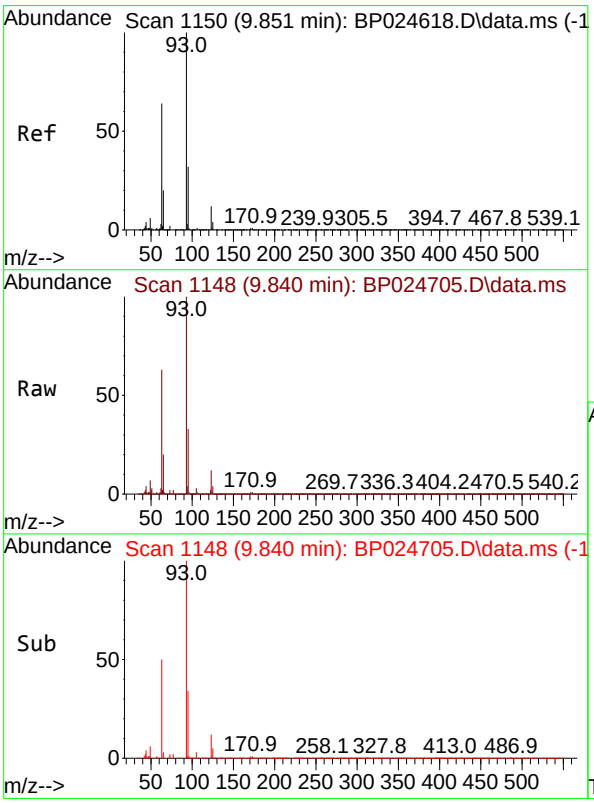
#27
2,4-Dimethylphenol
Concen: 45.272 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:122 Resp: 351044

Ion	Ratio	Lower	Upper
122	100		
107	123.1	96.2	144.2
121	60.0	47.6	71.4

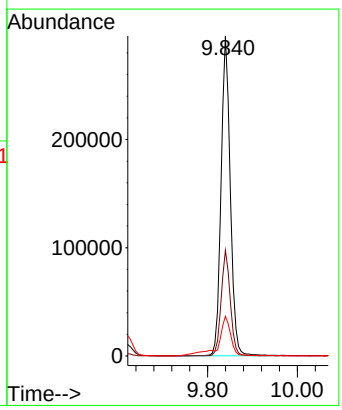


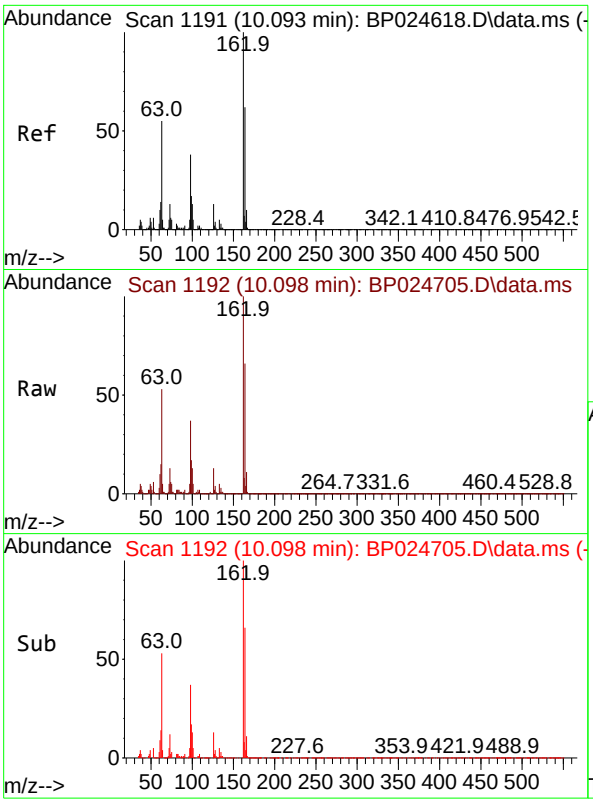


#28
bis(2-Chloroethoxy)methane
Concen: 40.115 ng
RT: 9.840 min Scan# 1148
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion: 93 Resp: 423990

Ion	Ratio	Lower	Upper
93	100		
95	33.0	25.5	38.3
123	12.4	9.7	14.5



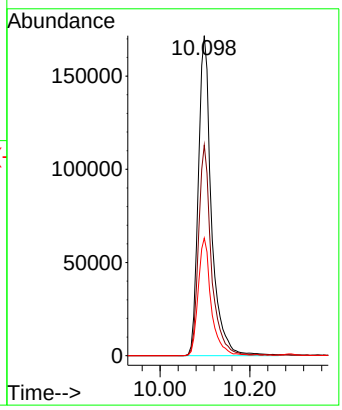


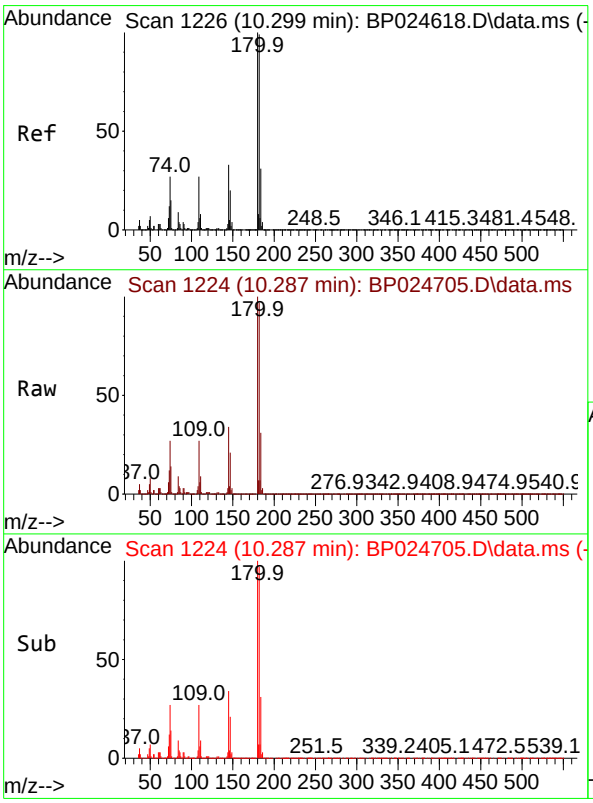
#29
2,4-Dichlorophenol
Concen: 46.428 ng
RT: 10.098 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:162 Resp: 348864

Ion	Ratio	Lower	Upper
162	100		
164	65.8	42.3	82.3
98	36.7	18.4	58.4

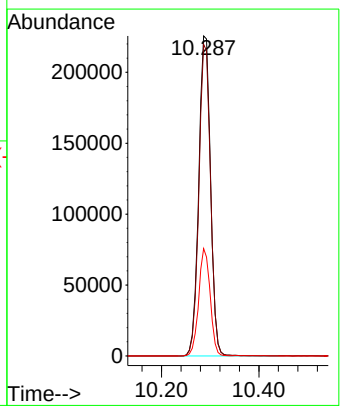


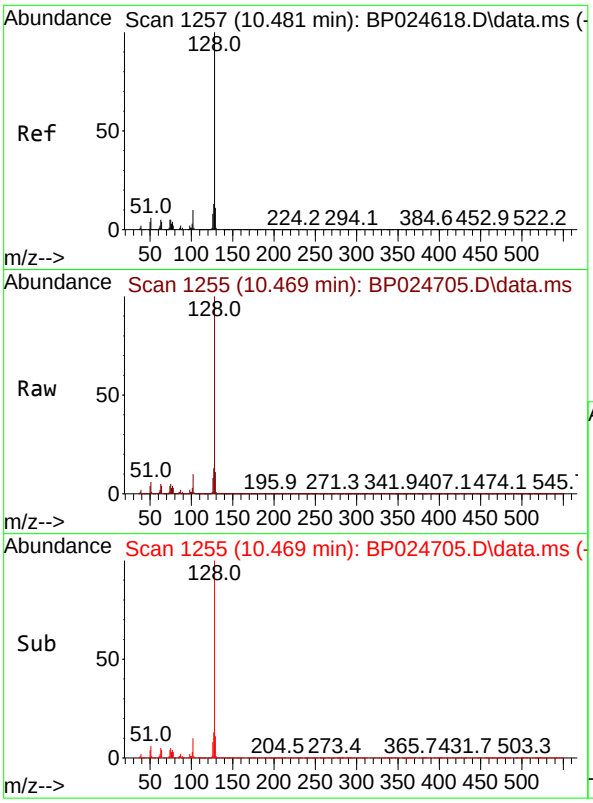


#30
1,2,4-Trichlorobenzene
Concen: 44.901 ng
RT: 10.287 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:180 Resp: 380200

Ion	Ratio	Lower	Upper
180	100		
182	97.3	79.0	118.4
145	33.6	26.6	39.8



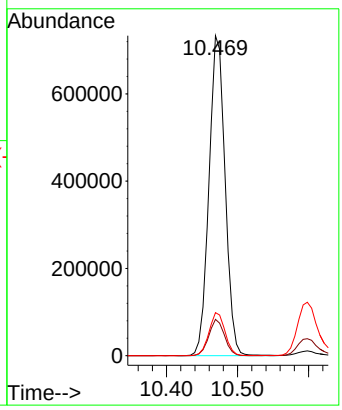


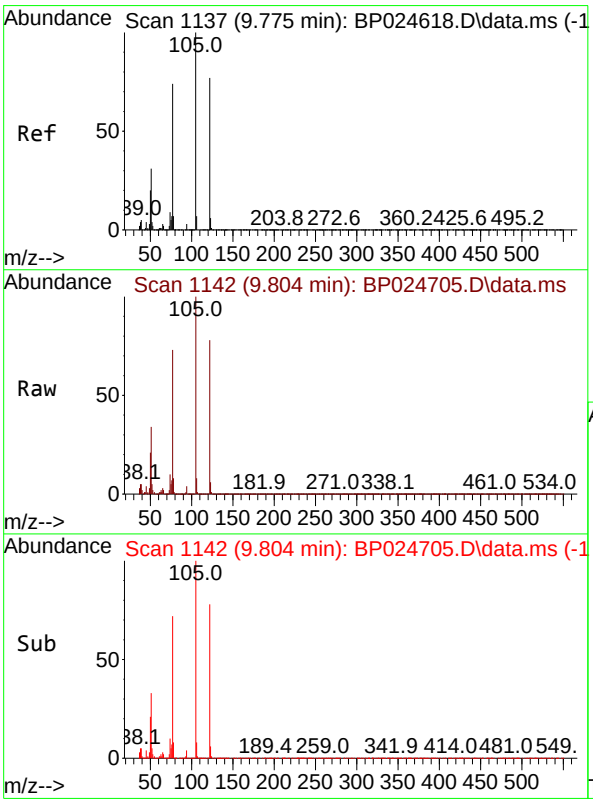
#31
Naphthalene
Concen: 43.270 ng
RT: 10.469 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:128 Resp: 1155472

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.5	10.7	16.1

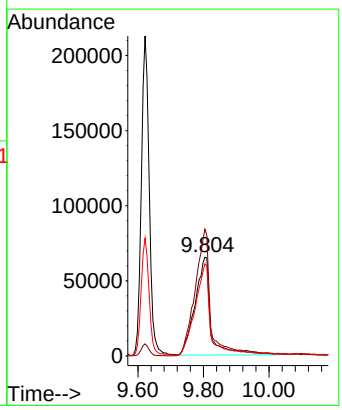


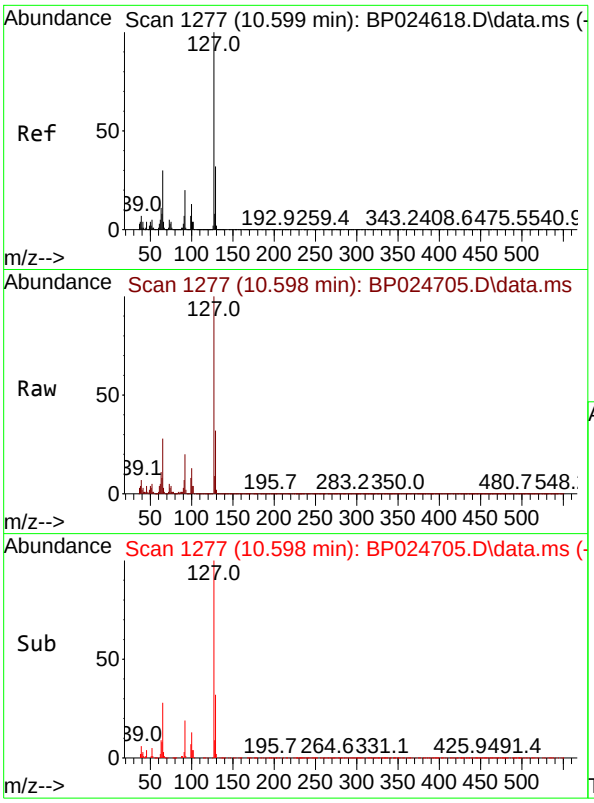


#32
Benzoic acid
Concen: 41.839 ng
RT: 9.804 min Scan# 1142
Delta R.T. 0.029 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:122 Resp: 219724

Ion	Ratio	Lower	Upper
122	100		
105	128.3	106.9	146.9
77	93.4	75.1	115.1



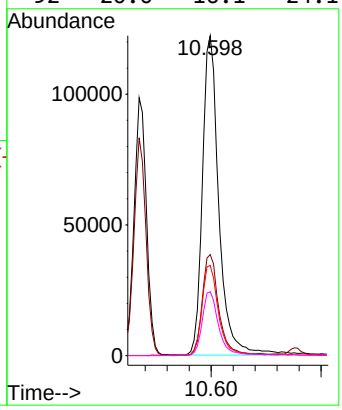


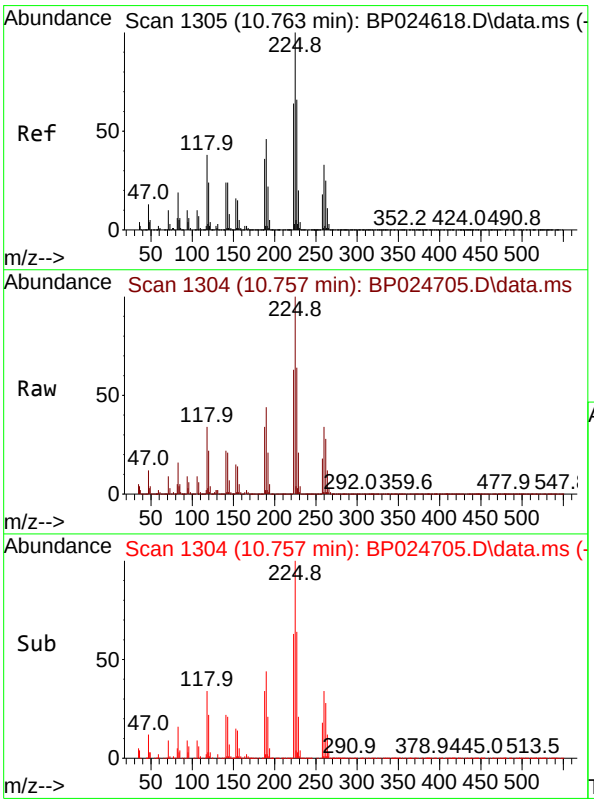
#33
4-Chloroaniline
Concen: 23.509 ng
RT: 10.598 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:127 Resp: 253333

Ion	Ratio	Lower	Upper
127	100		
129	31.6	25.8	38.6
65	28.2	23.9	35.9
92	20.0	16.1	24.1

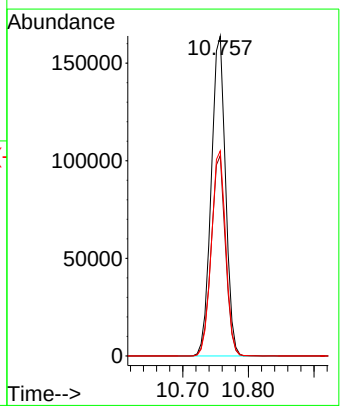


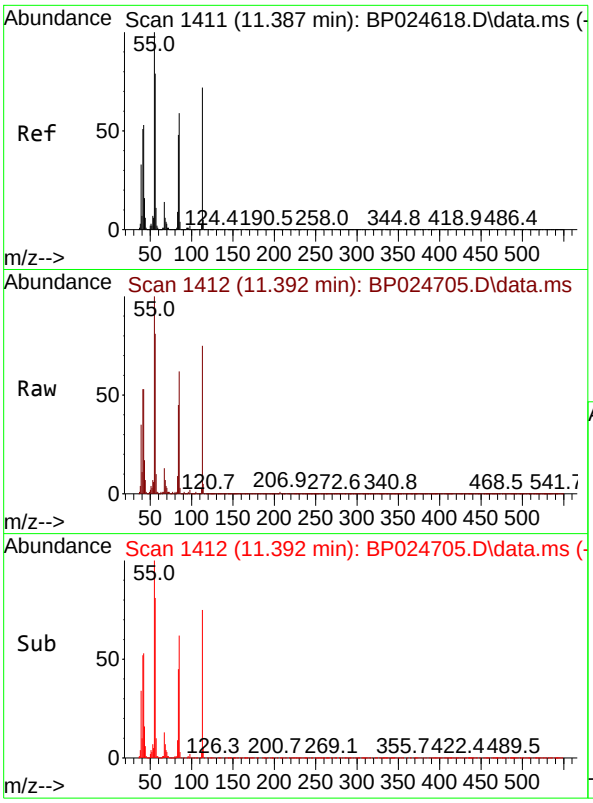


#34
Hexachlorobutadiene
Concen: 45.186 ng
RT: 10.757 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:225 Resp: 247859

Ion	Ratio	Lower	Upper
225	100		
223	62.6	51.0	76.6
227	64.1	53.1	79.7



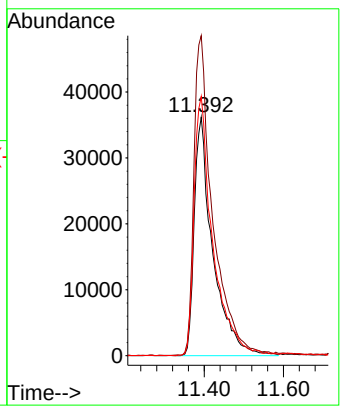


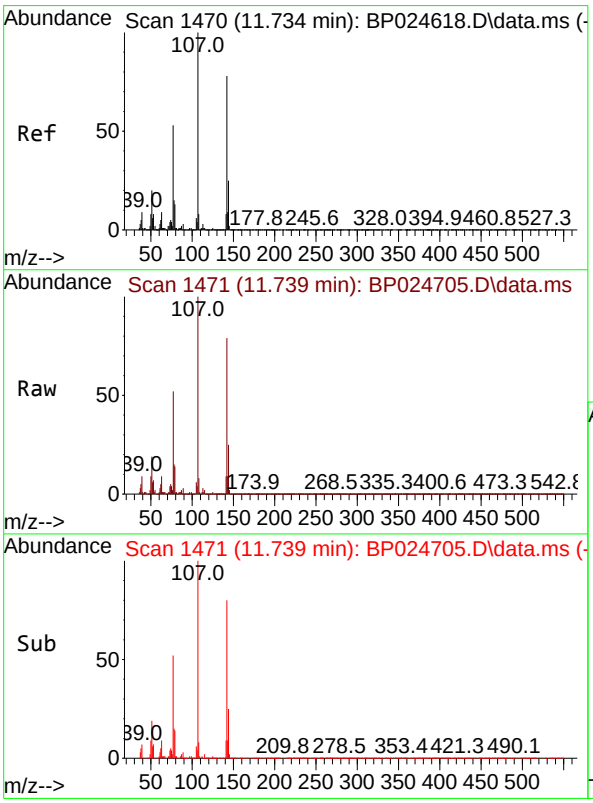
#35
Caprolactam
Concen: 43.094 ng
RT: 11.392 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:113 Resp: 117156

Ion	Ratio	Lower	Upper
113	100		
55	134.1	119.0	159.0
56	108.6	90.3	130.3

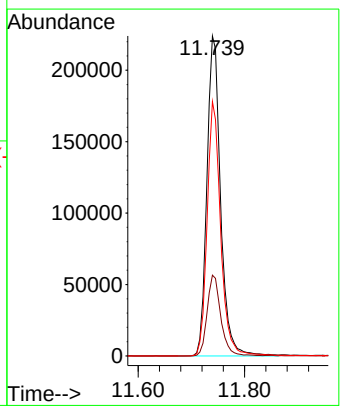


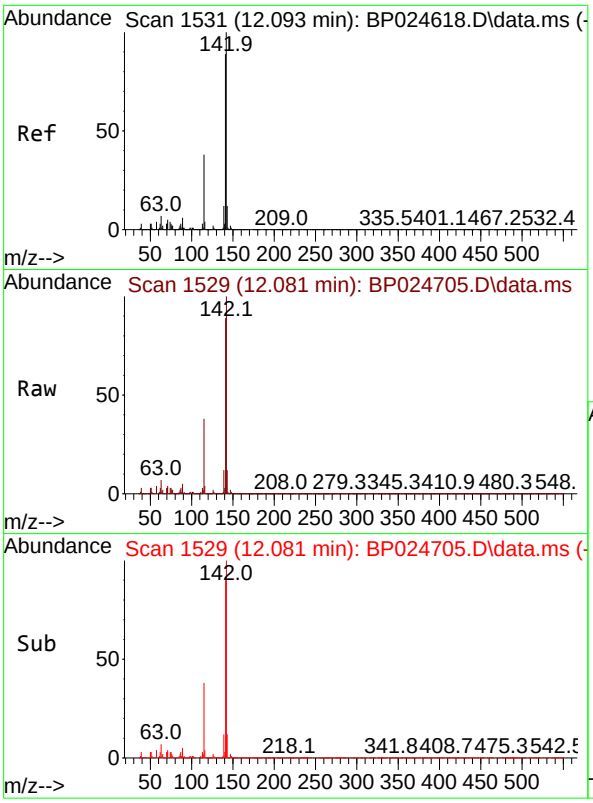


#36
4-Chloro-3-methylphenol
Concen: 43.695 ng
RT: 11.739 min Scan# 1471
Delta R.T. 0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:107 Resp: 400392

Ion	Ratio	Lower	Upper
107	100		
144	25.3	20.1	30.1
142	79.5	62.1	93.1



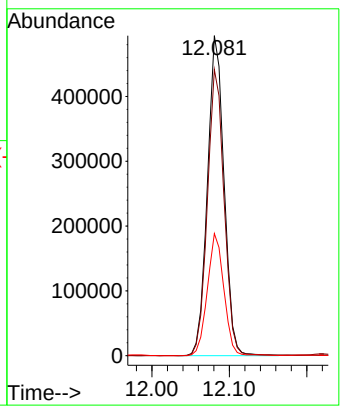


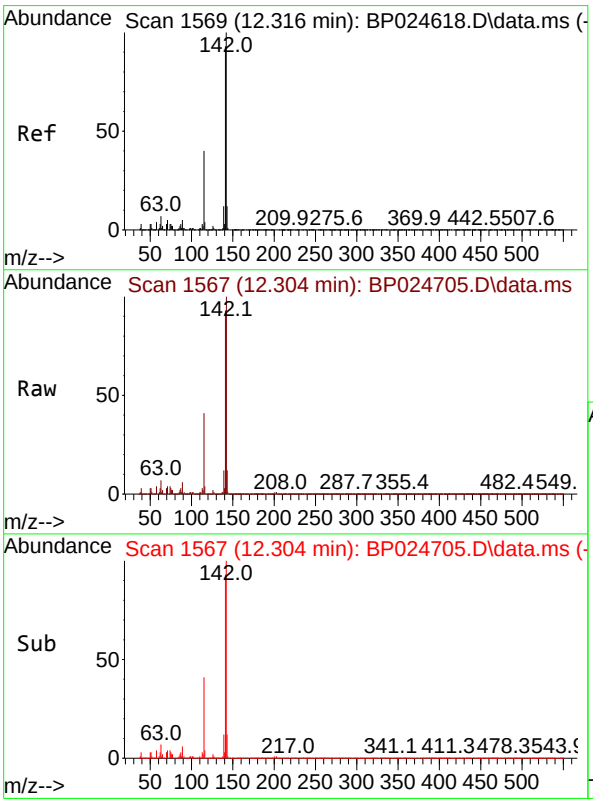
#37
2-Methylnaphthalene
Concen: 42.527 ng
RT: 12.081 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:142 Resp: 735333

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.2	106.8
115	38.1	30.6	46.0

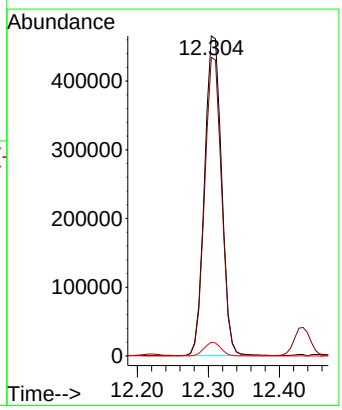


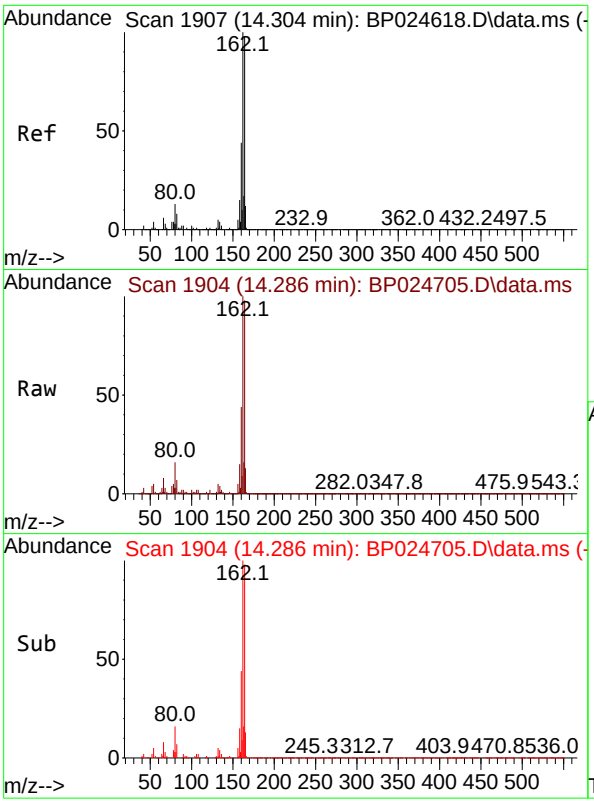


#38
1-Methylnaphthalene
Concen: 41.878 ng
RT: 12.304 min Scan# 1567
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:142 Resp: 774790

Ion	Ratio	Lower	Upper
142	100		
141	93.3	74.7	112.1
116	4.3	3.4	5.2



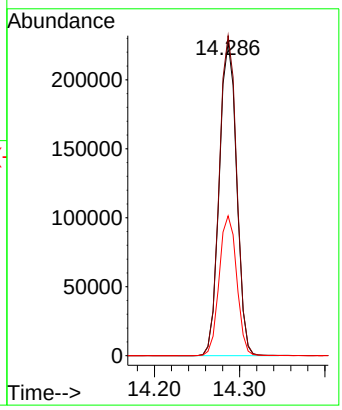


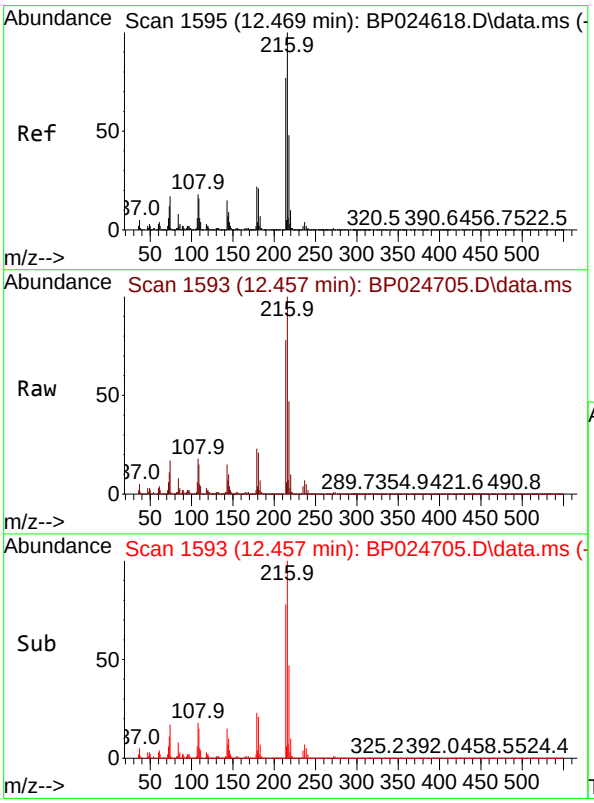
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.286 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:164 Resp: 320735

Ion	Ratio	Lower	Upper
164	100		
162	102.2	81.8	122.6
160	44.7	36.3	54.5

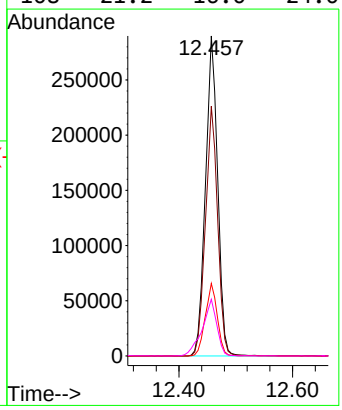


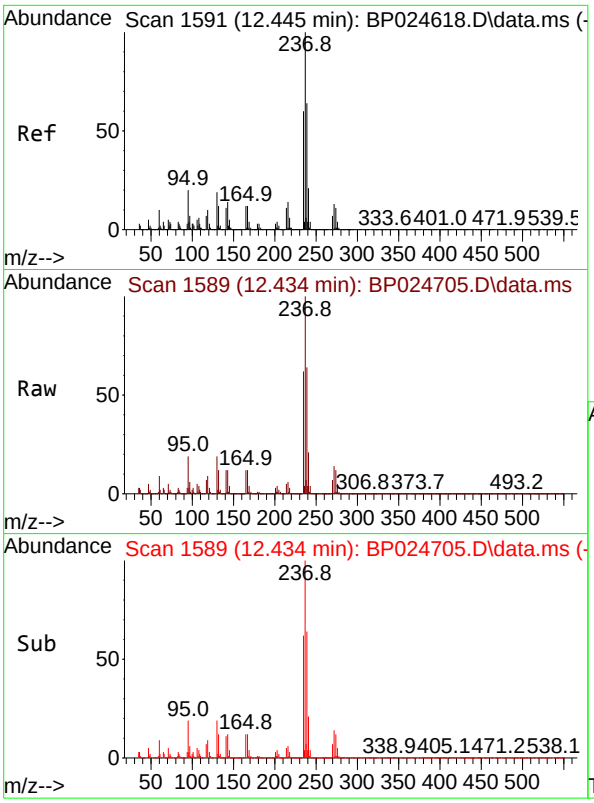


#40
1,2,4,5-Tetrachlorobenzene
Concen: 46.159 ng
RT: 12.457 min Scan# 1593
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:216 Resp: 429917

Ion	Ratio	Lower	Upper
216	100		
214	78.1	62.3	93.5
179	22.4	17.7	26.5
108	21.2	16.0	24.0



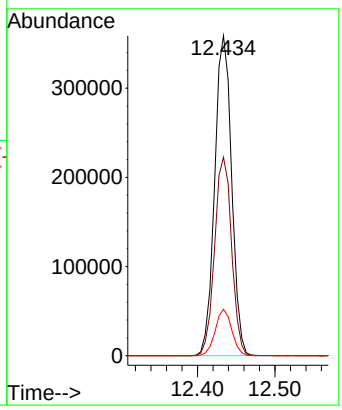


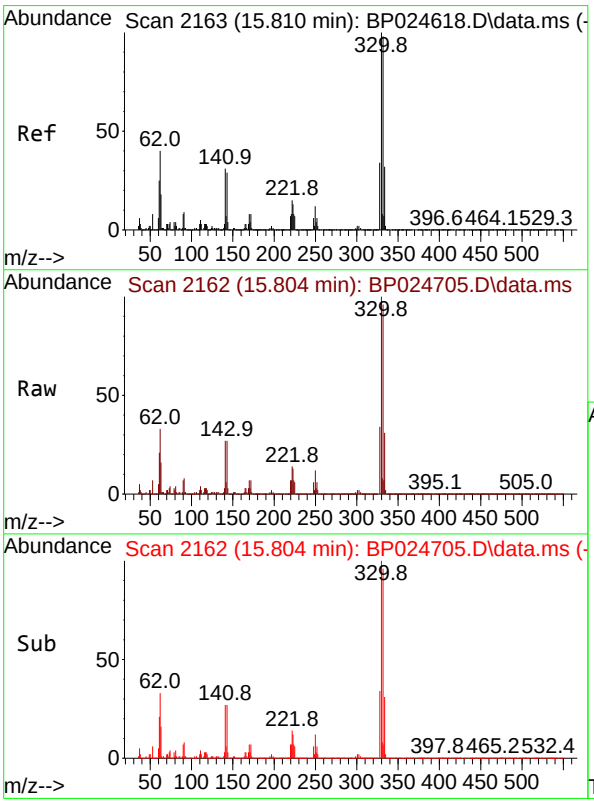
#41
Hexachlorocyclopentadiene
Concen: 96.436 ng
RT: 12.434 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:237 Resp: 544630

Ion	Ratio	Lower	Upper
237	100		
235	62.0	39.9	79.9
272	14.5	0.0	33.2

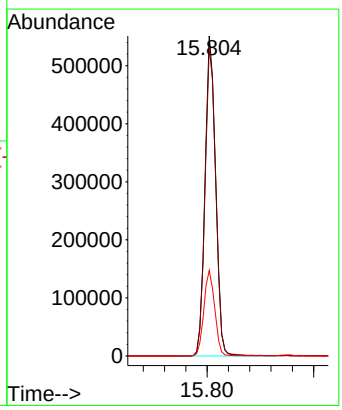


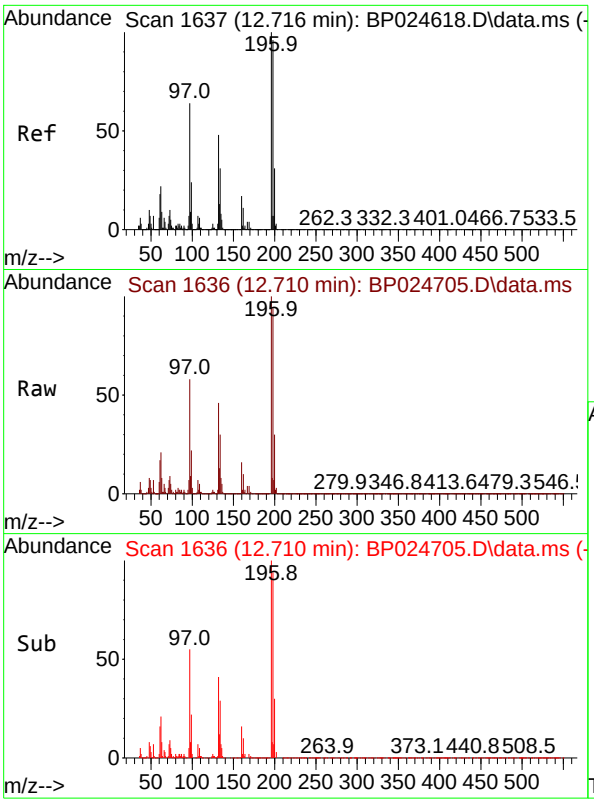


#42
2,4,6-Tribromophenol
Concen: 140.106 ng
RT: 15.804 min Scan# 2162
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:330 Resp: 761810

Ion	Ratio	Lower	Upper
330	100		
332	97.0	78.2	117.4
141	27.2	24.3	36.5



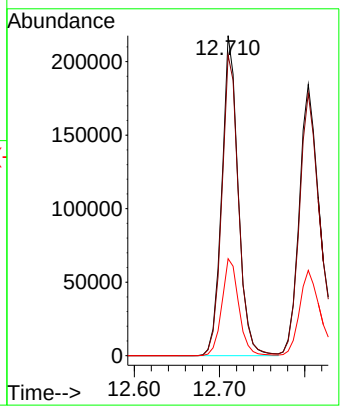


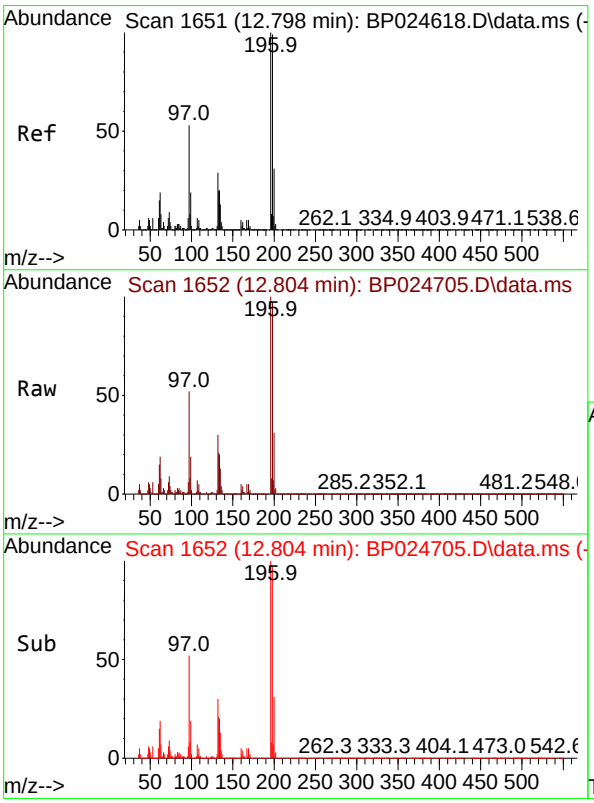
#43
2,4,6-Trichlorophenol
Concen: 48.350 ng
RT: 12.710 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:196 Resp: 291678

Ion	Ratio	Lower	Upper
196	100		
198	93.9	76.9	115.3
200	30.3	25.2	37.8

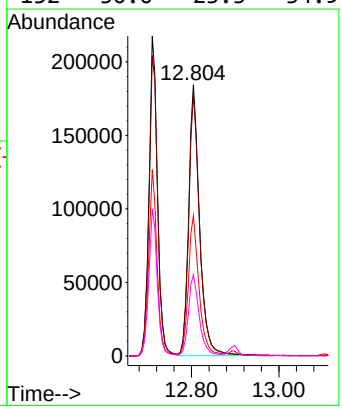


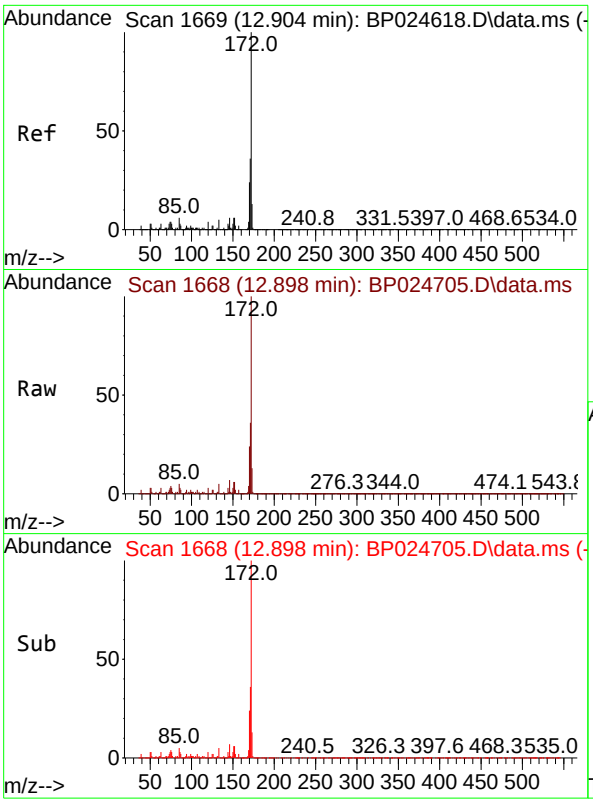


#44
2,4,5-Trichlorophenol
Concen: 47.795 ng
RT: 12.804 min Scan# 1652
Delta R.T. 0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:196 Resp: 320947

Ion	Ratio	Lower	Upper
196	100		
198	96.8	79.2	118.8
97	51.7	42.3	63.5
132	30.0	23.3	34.9



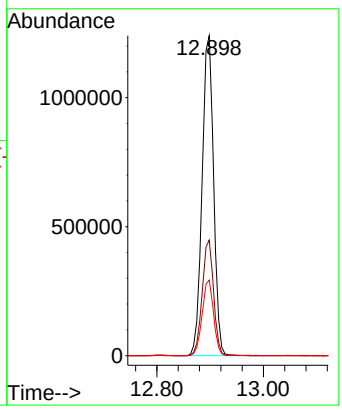


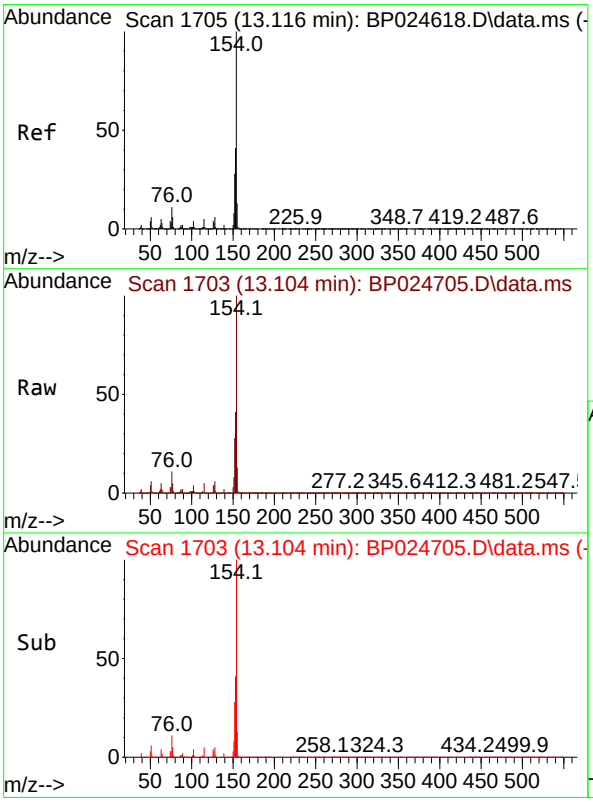
#45
2-Fluorobiphenyl
Concen: 75.821 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:172 Resp: 1856188

Ion	Ratio	Lower	Upper
172	100		
171	36.2	28.8	43.2
170	23.6	18.8	28.2

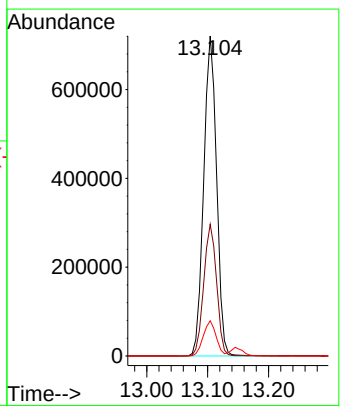


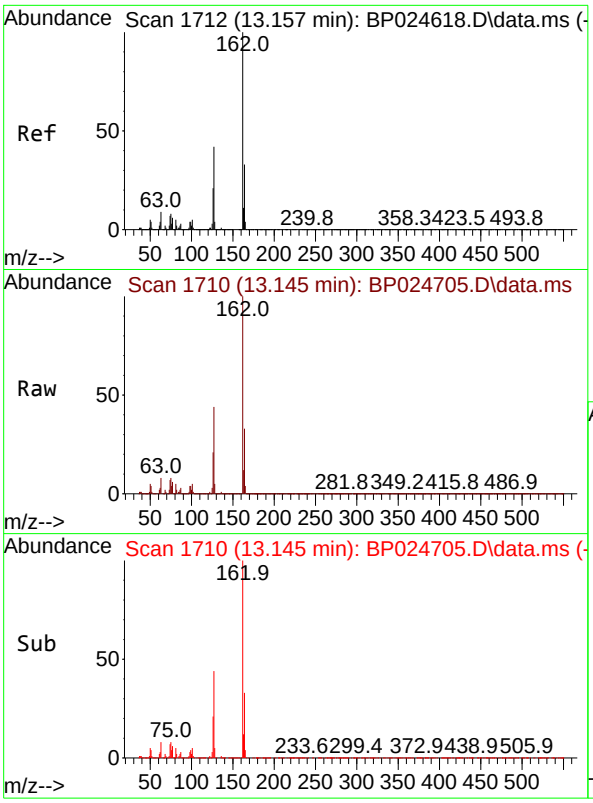


#46
1,1'-Biphenyl
Concen: 44.764 ng
RT: 13.104 min Scan# 1703
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:154 Resp: 1061178

Ion	Ratio	Lower	Upper
154	100		
153	41.2	21.0	61.0
76	11.0	0.0	31.5



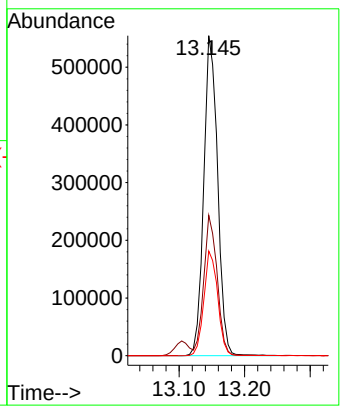


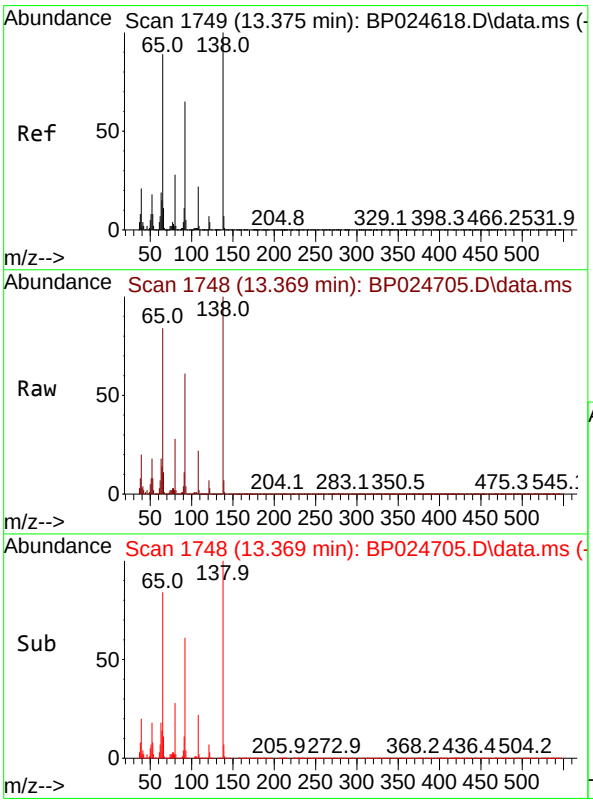
#47
2-Chloronaphthalene
Concen: 45.250 ng
RT: 13.145 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:162 Resp: 817893

Ion	Ratio	Lower	Upper
162	100		
127	43.8	33.8	50.6
164	32.7	26.0	39.0

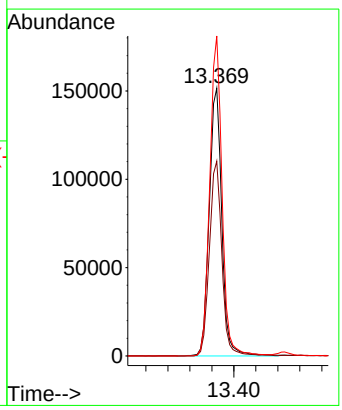


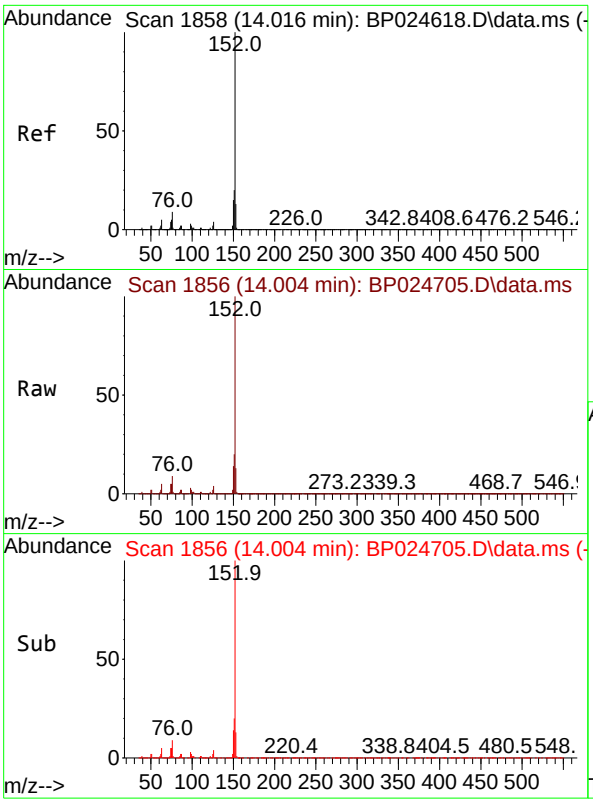


#48
2-Nitroaniline
Concen: 44.960 ng
RT: 13.369 min Scan# 1748
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion: 65 Resp: 240596

Ion	Ratio	Lower	Upper
65	100		
92	72.8	58.7	88.1
138	119.6	90.2	135.2



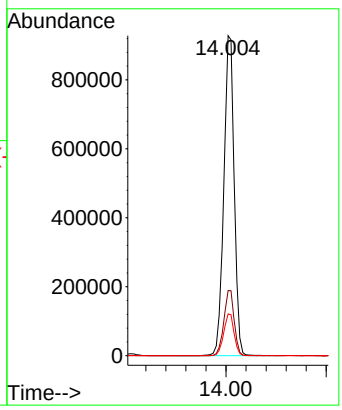


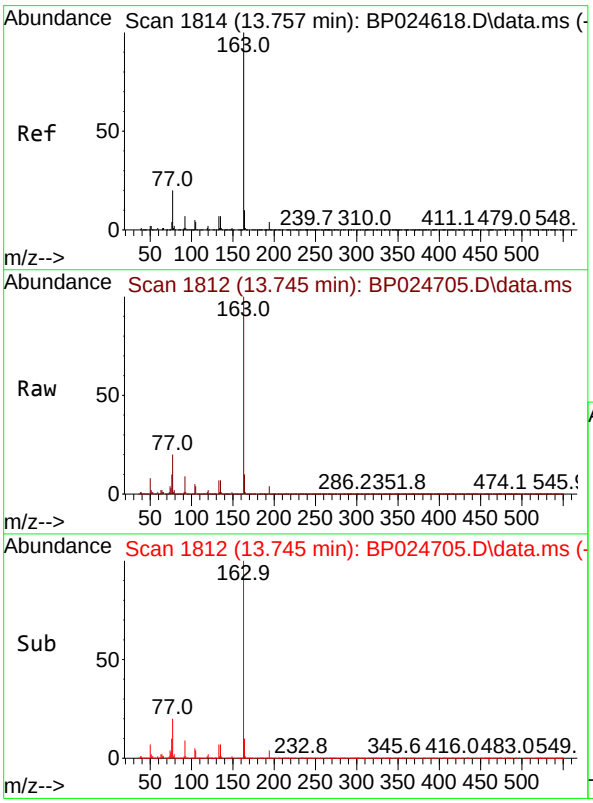
#49
Acenaphthylene
Concen: 44.107 ng
RT: 14.004 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:152 Resp: 1334163

Ion	Ratio	Lower	Upper
152	100		
151	20.4	16.2	24.4
153	13.1	10.2	15.4

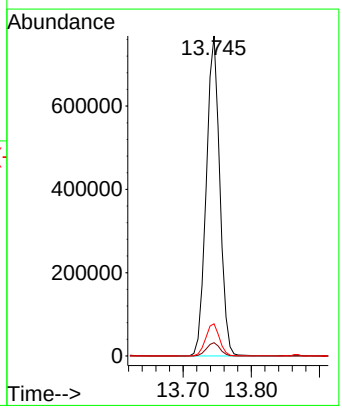


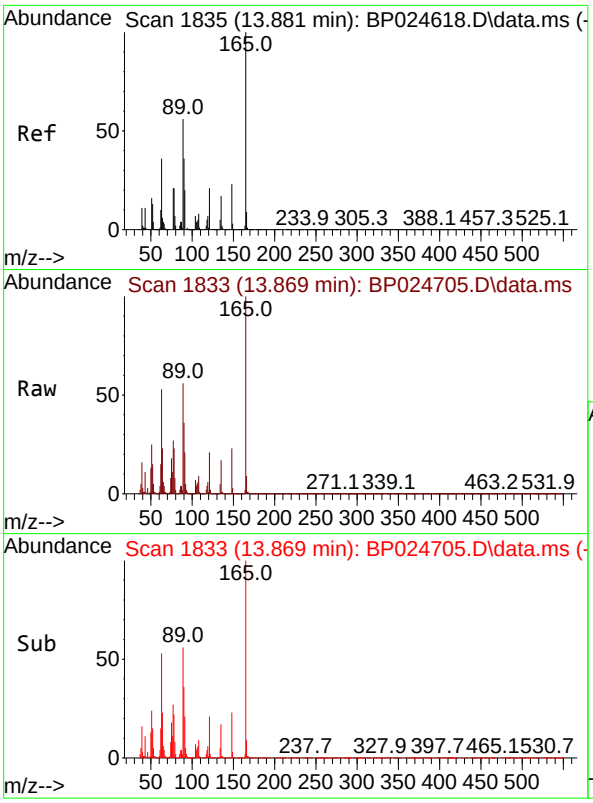


#50
Dimethylphthalate
Concen: 43.264 ng
RT: 13.745 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:163 Resp: 1057648

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.1	8.1	12.1



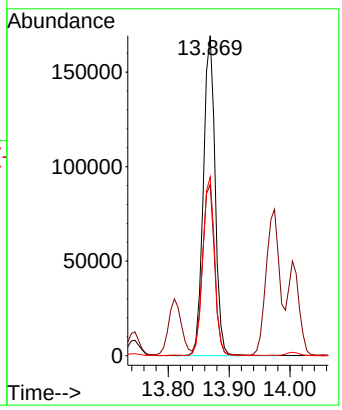


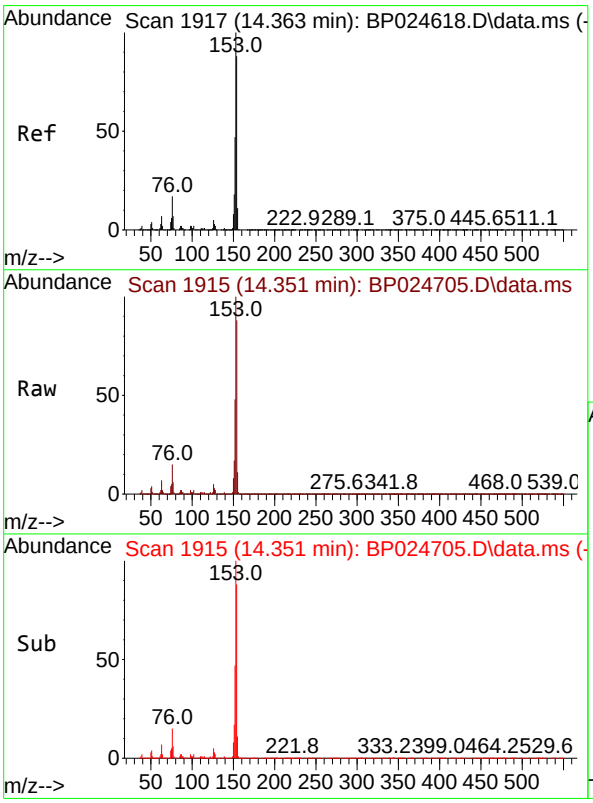
#51
2,6-Dinitrotoluene
Concen: 43.920 ng
RT: 13.869 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:165 Resp: 226756

Ion	Ratio	Lower	Upper
165	100		
63	53.4	42.4	63.6
89	55.8	44.8	67.2

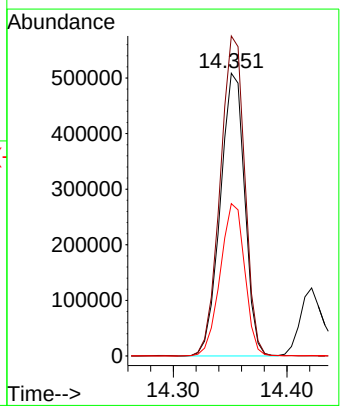


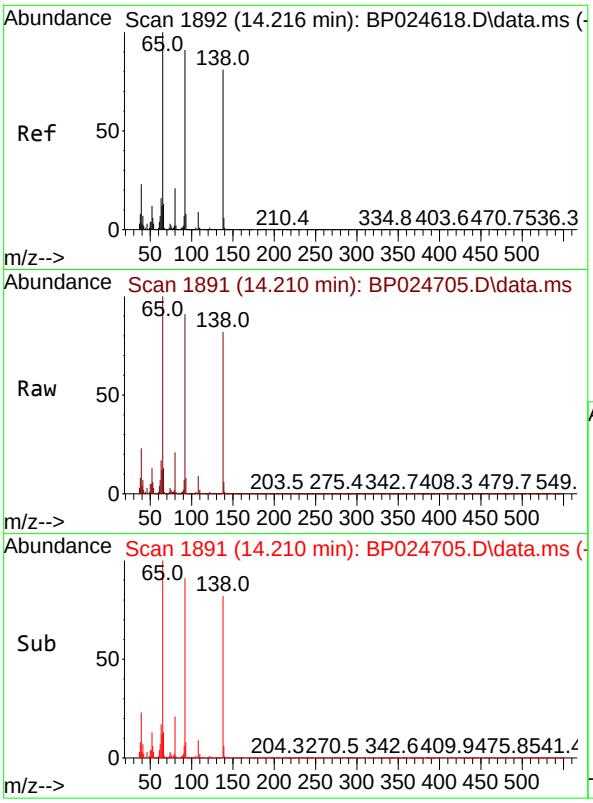


#52
Acenaphthene
Concen: 43.631 ng
RT: 14.351 min Scan# 1915
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:154 Resp: 758717

Ion	Ratio	Lower	Upper
154	100		
153	113.2	91.0	136.4
152	53.9	42.9	64.3



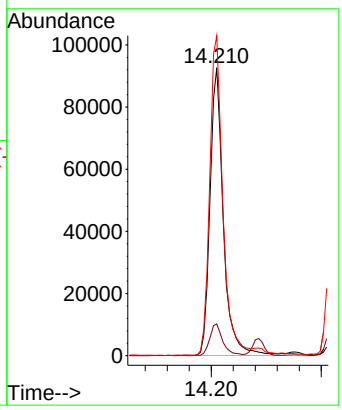


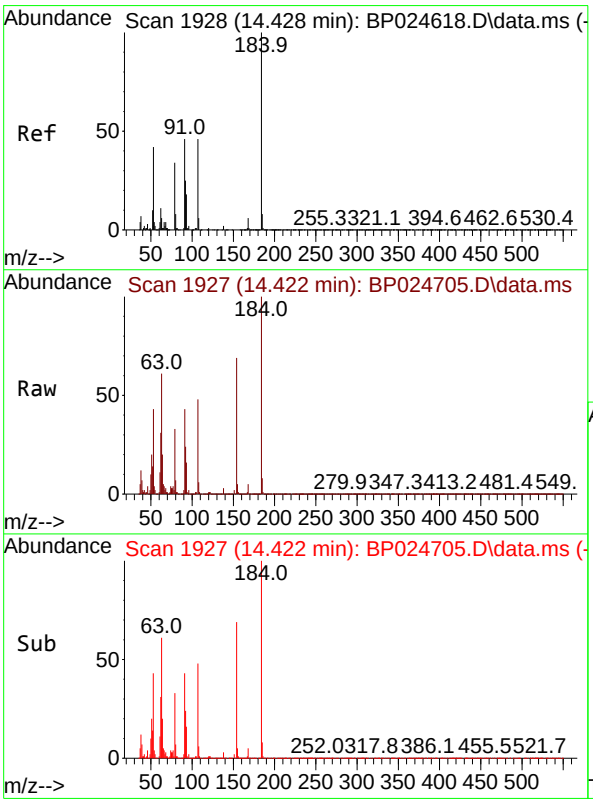
#53
3-Nitroaniline
Concen: 29.544 ng
RT: 14.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:138 Resp: 155750

Ion	Ratio	Lower	Upper
138	100		
108	11.0	9.0	13.4
92	111.1	90.1	135.1

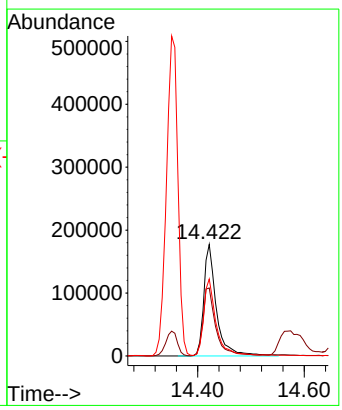


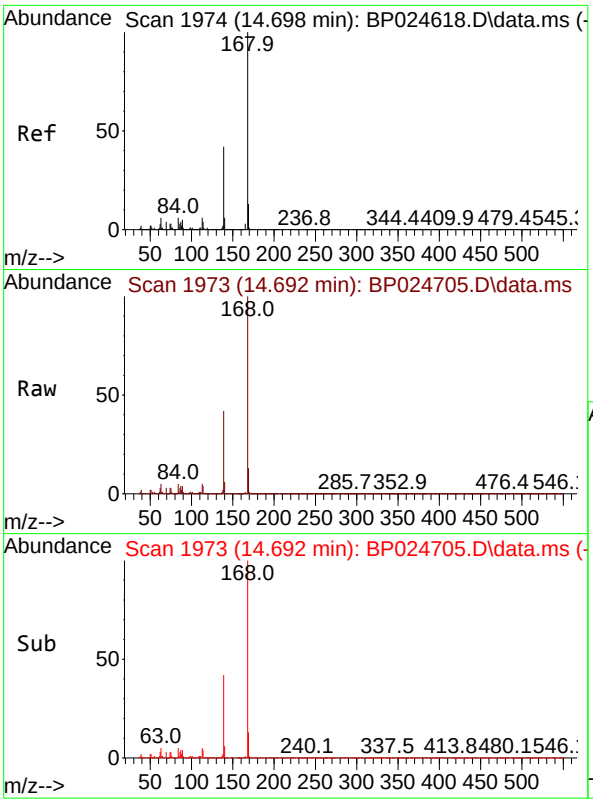


#54
2,4-Dinitrophenol
Concen: 88.385 ng
RT: 14.422 min Scan# 1927
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:184 Resp: 290130

Ion	Ratio	Lower	Upper
184	100		
63	61.0	51.3	76.9
154	69.0	53.5	80.3



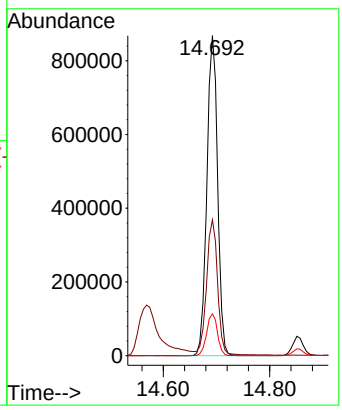


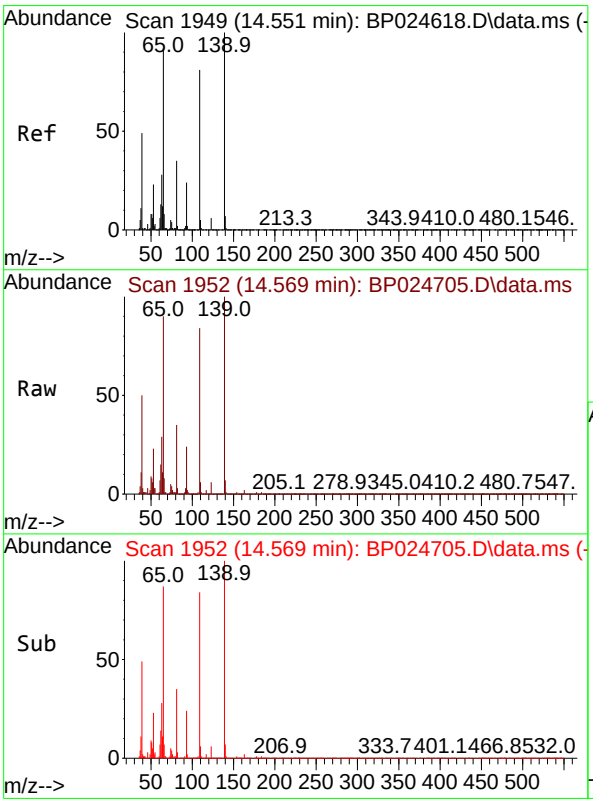
#55
Dibenzofuran
Concen: 43.748 ng
RT: 14.692 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:168 Resp: 1213439

Ion	Ratio	Lower	Upper
168	100		
139	42.5	34.2	51.4
169	13.1	10.8	16.2

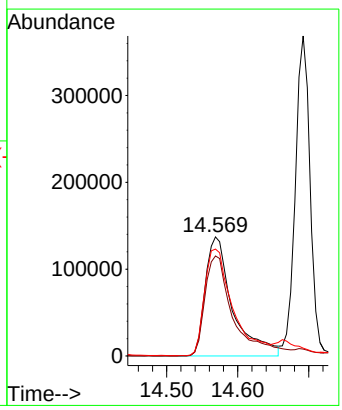


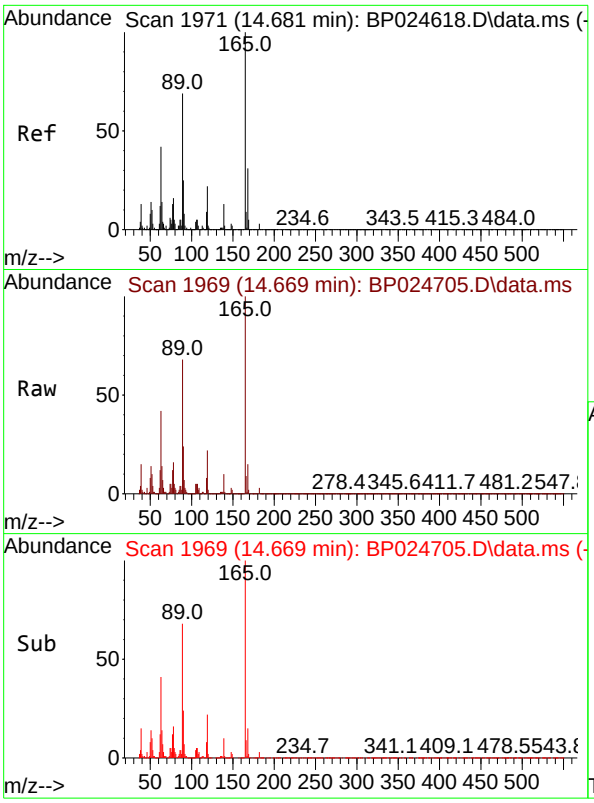


#56
4-Nitrophenol
Concen: 80.496 ng
RT: 14.569 min Scan# 1952
Delta R.T. 0.018 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:139 Resp: 367513

Ion	Ratio	Lower	Upper
139	100		
109	84.0	61.4	101.4
65	89.8	72.2	112.2



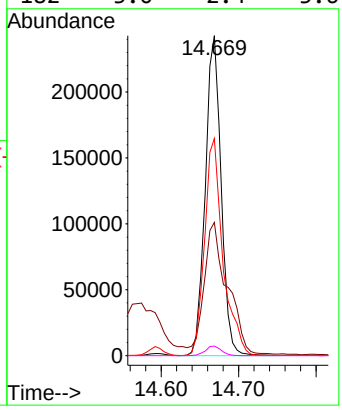


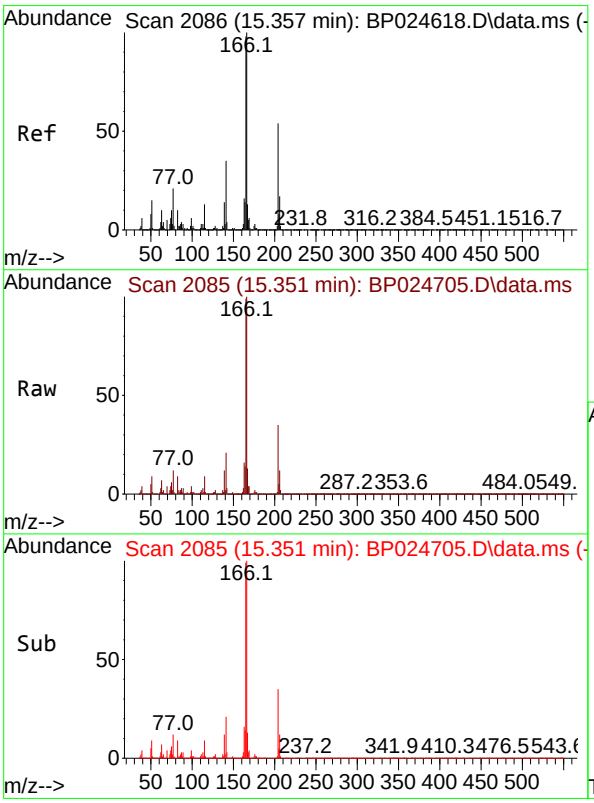
#57
2,4-Dinitrotoluene
Concen: 47.336 ng
RT: 14.669 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:165 Resp: 344549

Ion	Ratio	Lower	Upper
165	100		
63	41.6	33.8	50.6
89	67.9	55.6	83.4
182	3.0	2.4	3.6

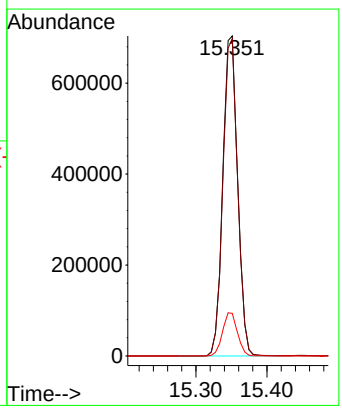


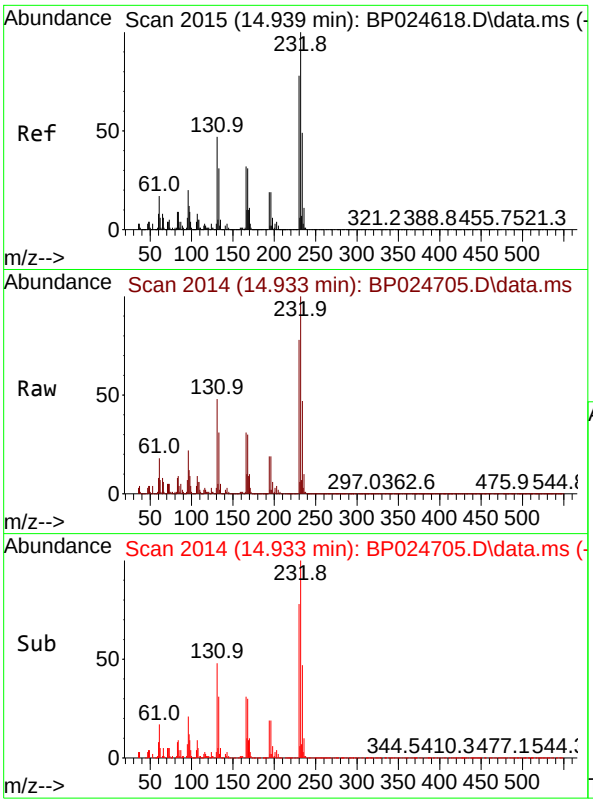


#58
Fluorene
Concen: 44.934 ng
RT: 15.351 min Scan# 2085
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:166 Resp: 1016249

Ion	Ratio	Lower	Upper
166	100		
165	99.1	78.5	117.7
167	13.3	10.7	16.1



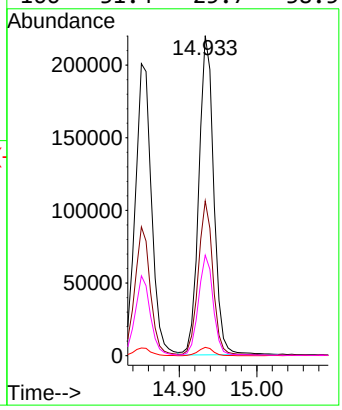


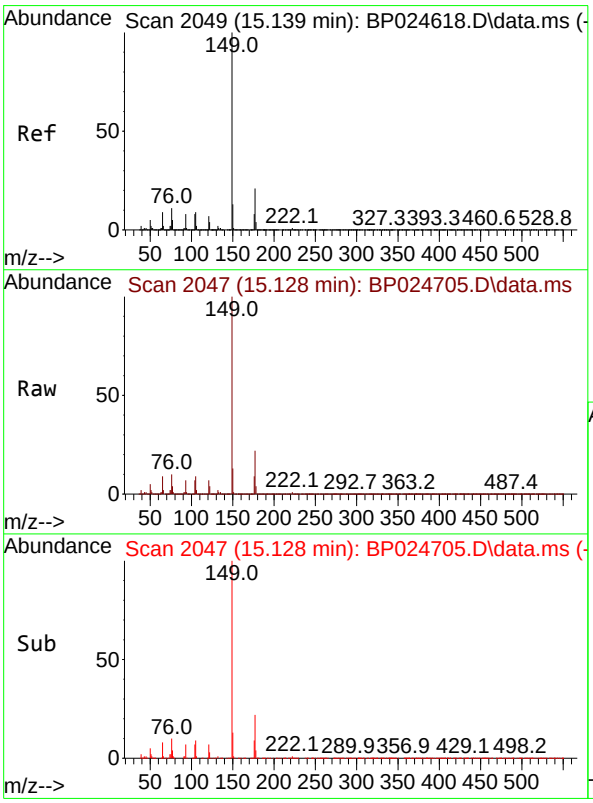
#59
2,3,4,6-Tetrachlorophenol
Concen: 47.078 ng
RT: 14.933 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:232 Resp: 293264

Ion	Ratio	Lower	Upper
232	100		
131	47.7	39.5	59.3
130	2.6	2.2	3.4
166	31.4	25.7	38.5

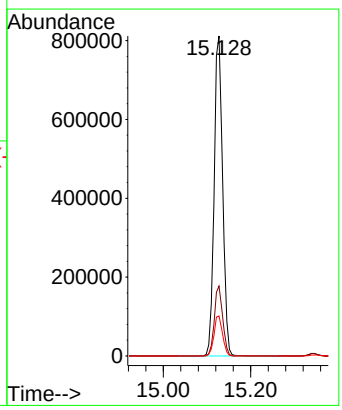


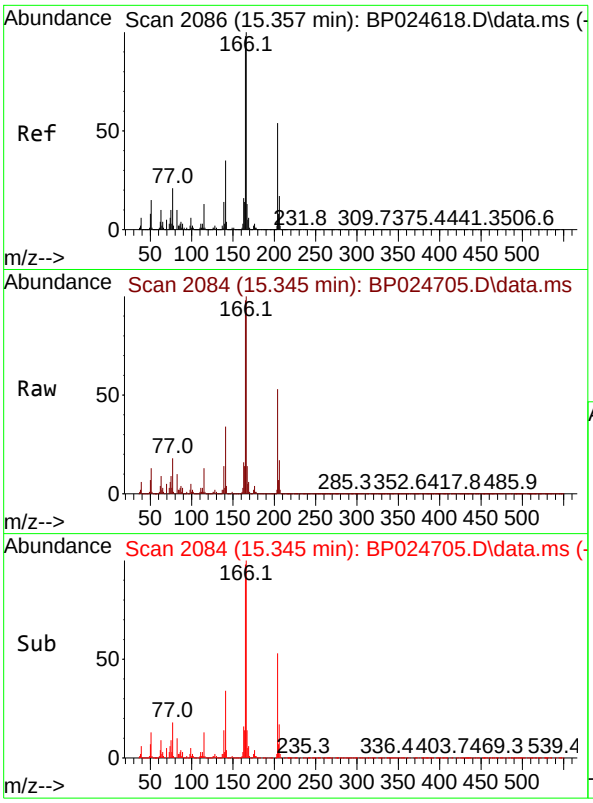


#60
Diethylphthalate
Concen: 44.180 ng
RT: 15.128 min Scan# 2047
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:149 Resp: 1091616

Ion	Ratio	Lower	Upper
149	100		
177	21.9	16.7	25.1
150	12.5	10.2	15.2



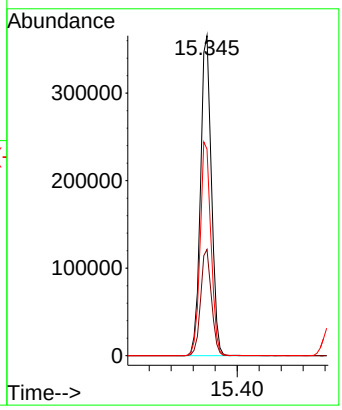


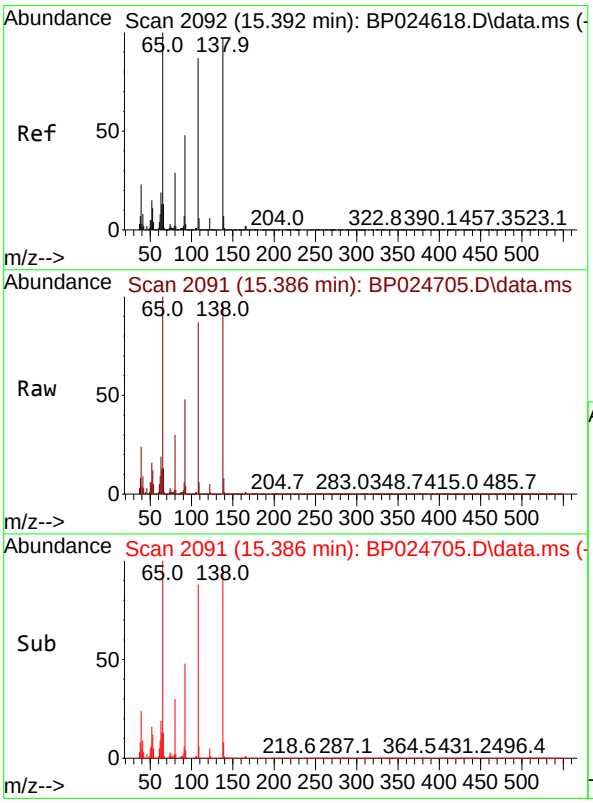
#61
4-Chlorophenyl-phenylether
Concen: 44.661 ng
RT: 15.345 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:204 Resp: 503728

Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.0	39.0
141	64.5	52.9	79.3

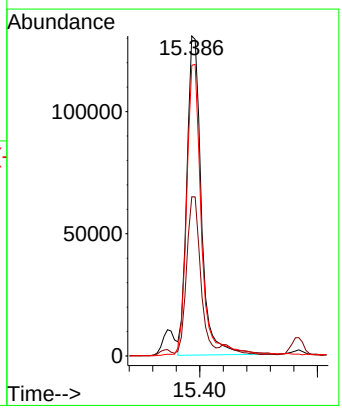


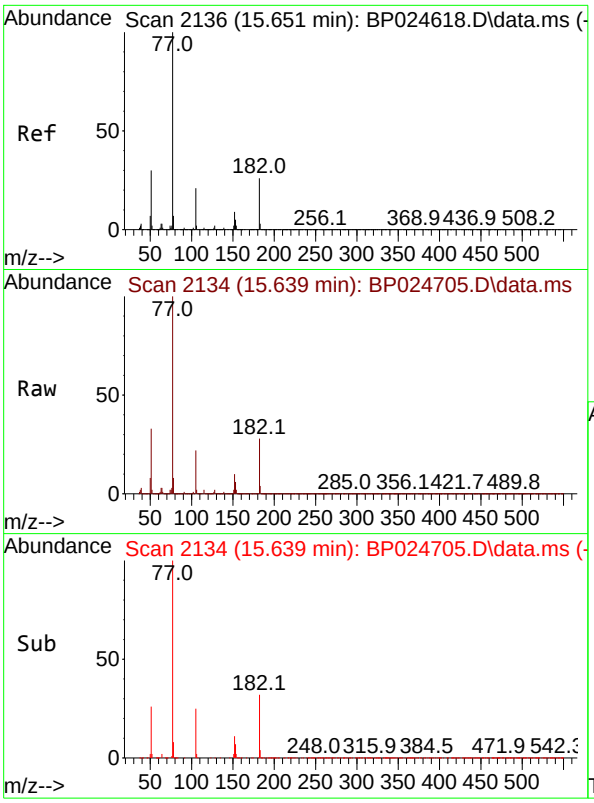


#62
4-Nitroaniline
Concen: 44.079 ng
RT: 15.386 min Scan# 2091
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:138 Resp: 224374

Ion	Ratio	Lower	Upper
138	100		
92	49.7	29.2	69.2
108	90.8	69.0	109.0



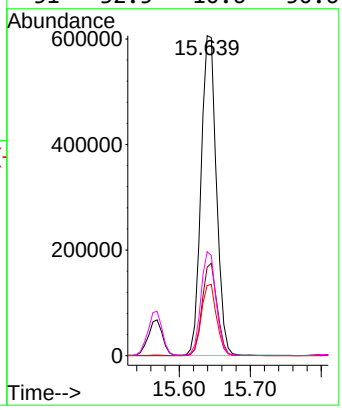


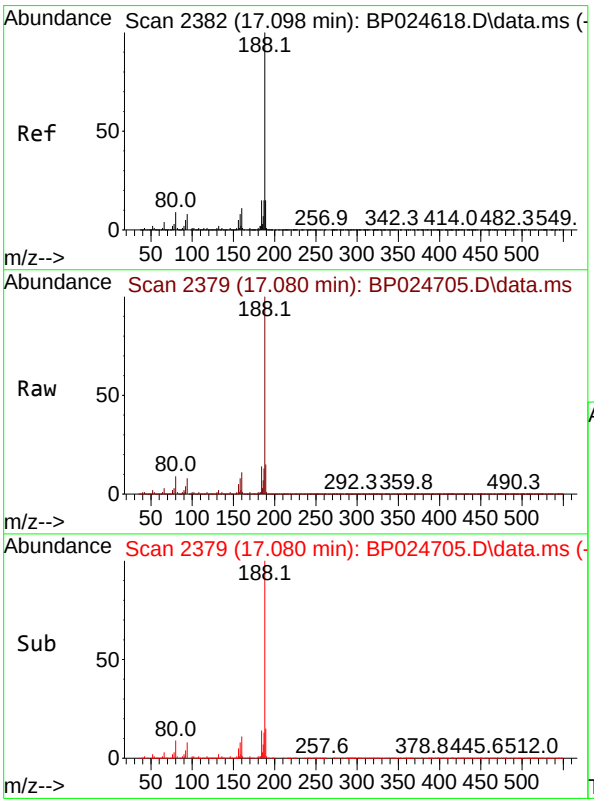
#63
Azobenzene
Concen: 43.016 ng
RT: 15.639 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion: 77 Resp: 909240

Ion	Ratio	Lower	Upper
77	100		
182	27.7	5.7	45.7
105	21.9	1.3	41.3
51	32.5	10.6	50.6

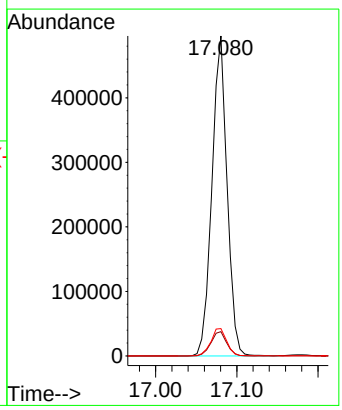


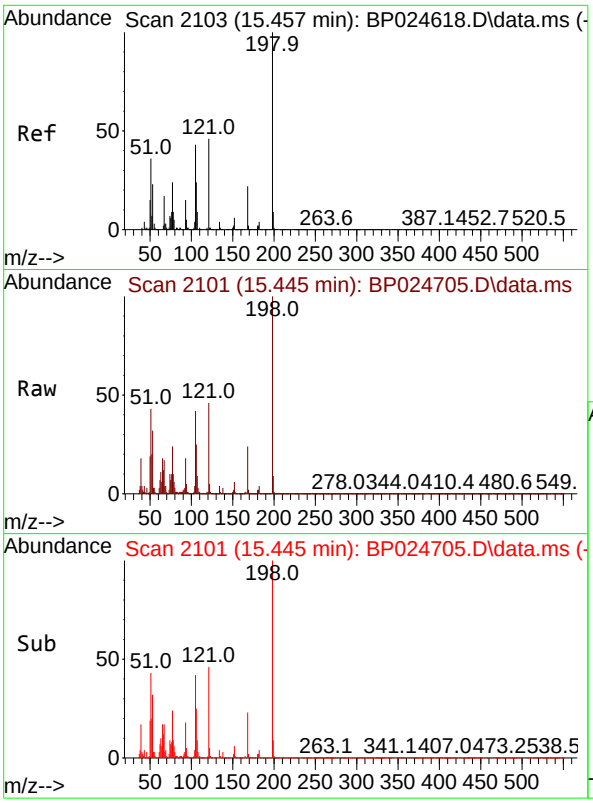


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.080 min Scan# 2379
Delta R.T. -0.018 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:188 Resp: 641657

Ion	Ratio	Lower	Upper
188	100		
94	7.6	6.5	9.7
80	8.6	7.3	10.9



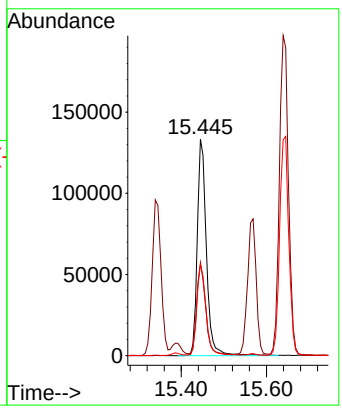


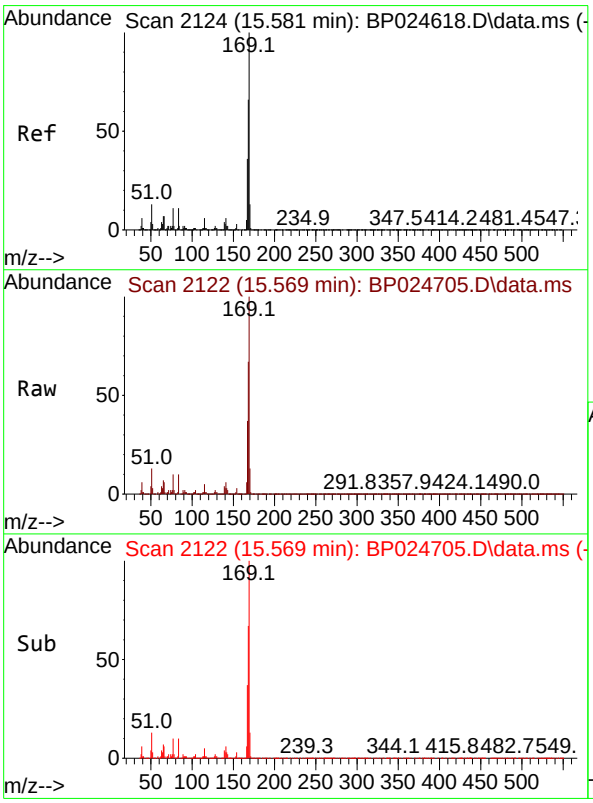
#65
4,6-Dinitro-2-methylphenol
Concen: 47.883 ng
RT: 15.445 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:198 Resp: 198459

Ion	Ratio	Lower	Upper
198	100		
51	43.0	21.1	61.1
105	42.2	23.6	63.6

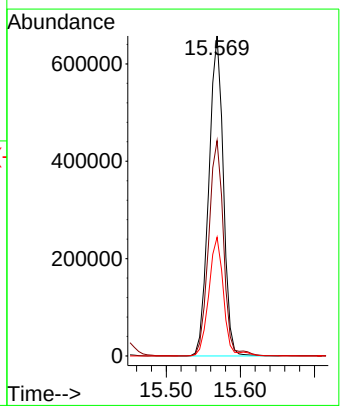


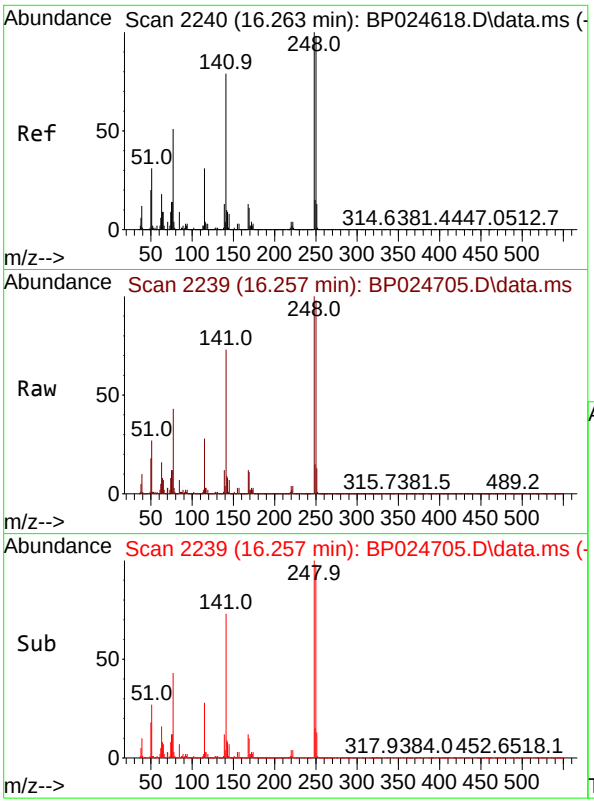


#66
n-Nitrosodiphenylamine
Concen: 45.297 ng
RT: 15.569 min Scan# 2122
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:169 Resp: 892757

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.2	79.8
167	37.1	28.6	43.0



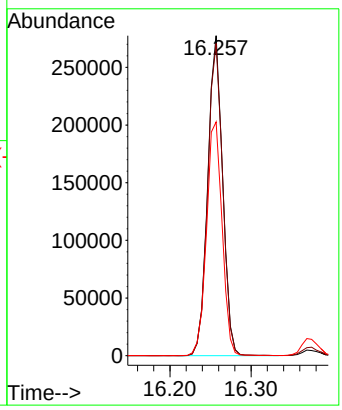


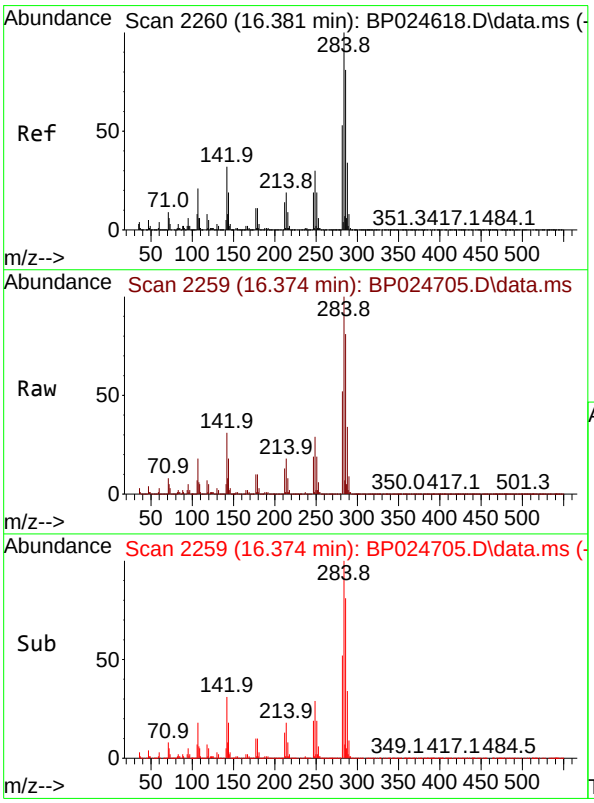
#67
4-Bromophenyl-phenylether
Concen: 46.718 ng
RT: 16.257 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:248 Resp: 353232

Ion	Ratio	Lower	Upper
248	100		
250	97.6	78.2	117.4
141	73.0	63.0	94.6

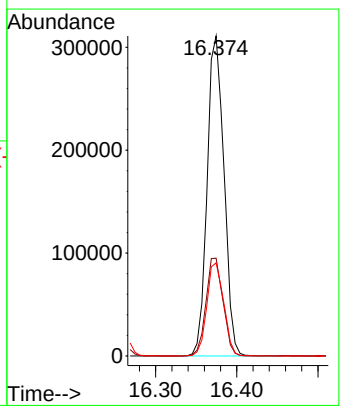


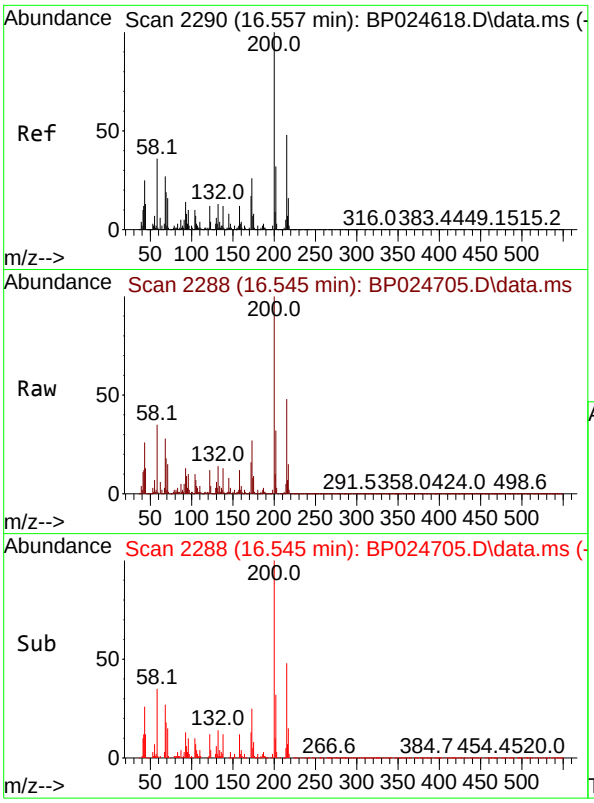


#68
Hexachlorobenzene
Concen: 46.618 ng
RT: 16.374 min Scan# 2259
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:284 Resp: 447882

Ion	Ratio	Lower	Upper
284	100		
142	30.6	25.9	38.9
249	29.1	24.1	36.1



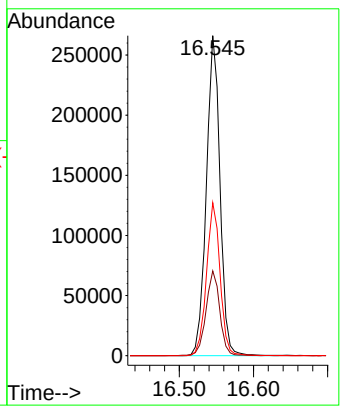


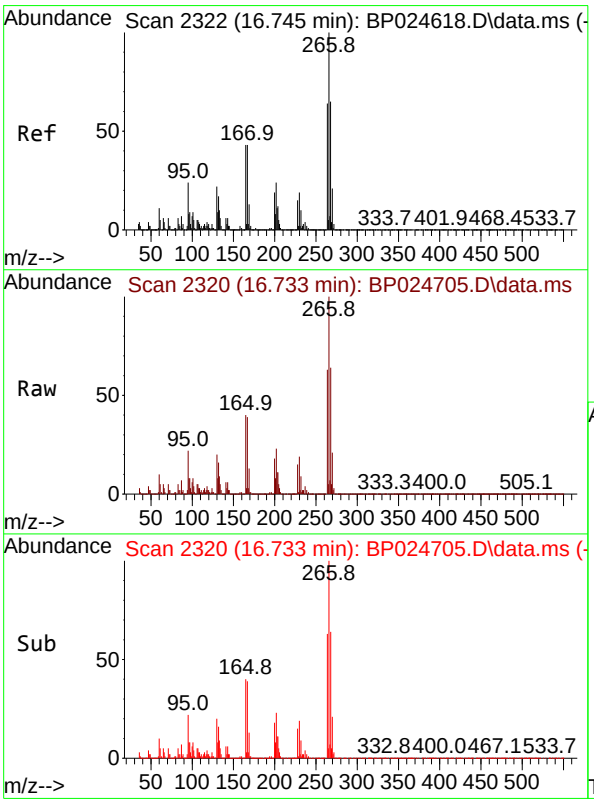
#69
Atrazine
Concen: 47.038 ng
RT: 16.545 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:200 Resp: 339746

Ion	Ratio	Lower	Upper
200	100		
173	26.5	5.9	45.9
215	47.8	28.3	68.3

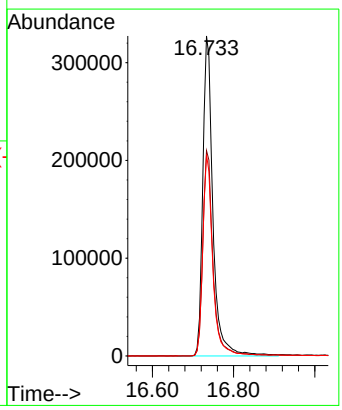


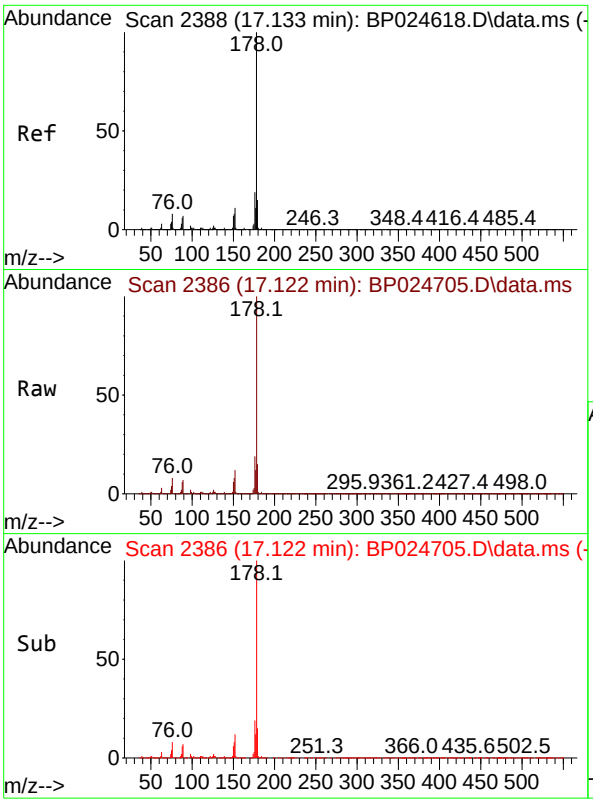


#70
Pentachlorophenol
Concen: 104.926 ng
RT: 16.733 min Scan# 2320
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:266 Resp: 565886

Ion	Ratio	Lower	Upper
266	100		
268	64.2	52.2	78.4
264	62.9	51.1	76.7



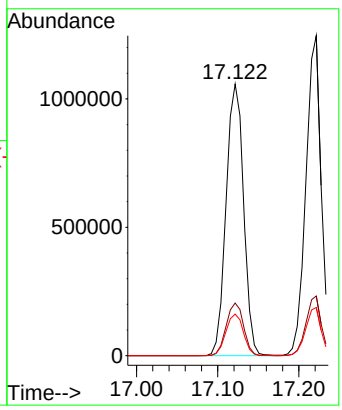


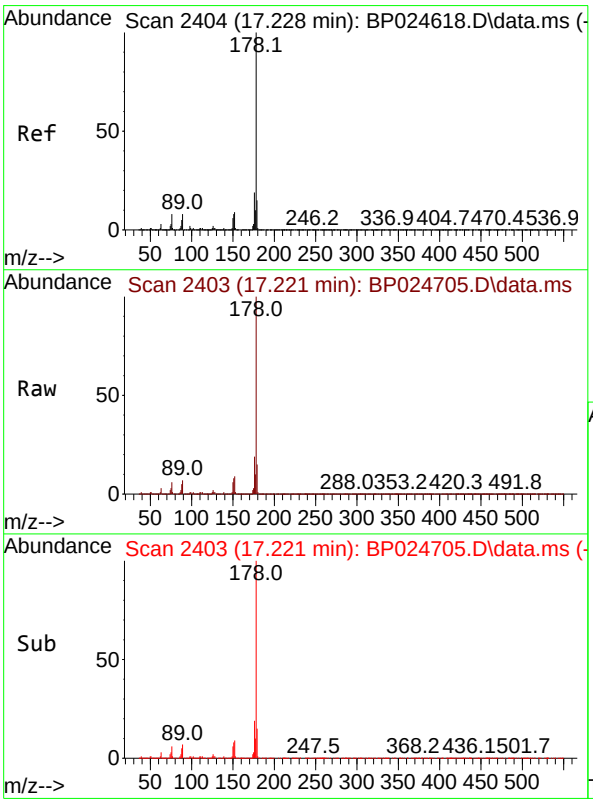
#71
Phenanthrene
Concen: 44.440 ng
RT: 17.122 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:178 Resp: 1585195

Ion	Ratio	Lower	Upper
178	100		
176	19.4	15.4	23.2
179	15.3	12.2	18.4

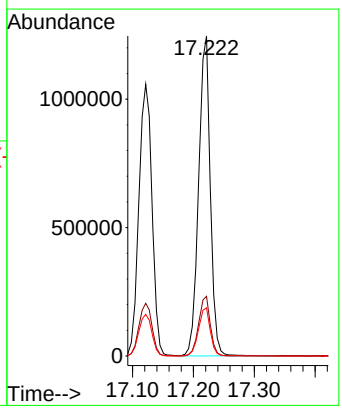


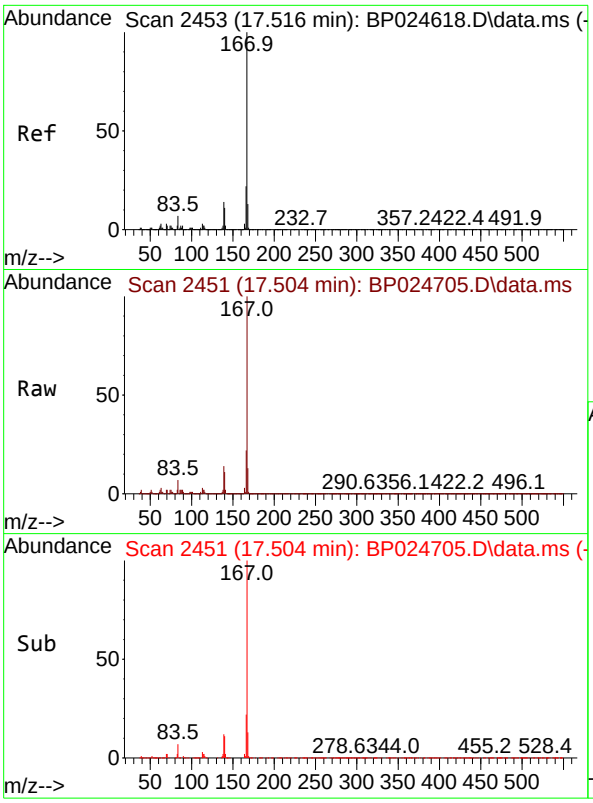


#72
Anthracene
Concen: 45.955 ng
RT: 17.221 min Scan# 2403
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:178 Resp: 1649260

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.0	12.2	18.2



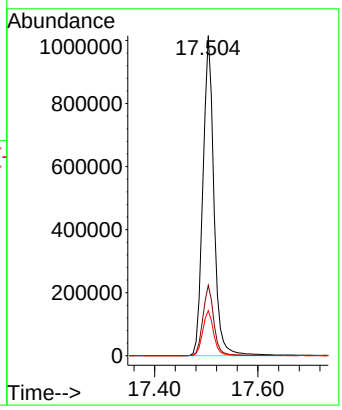


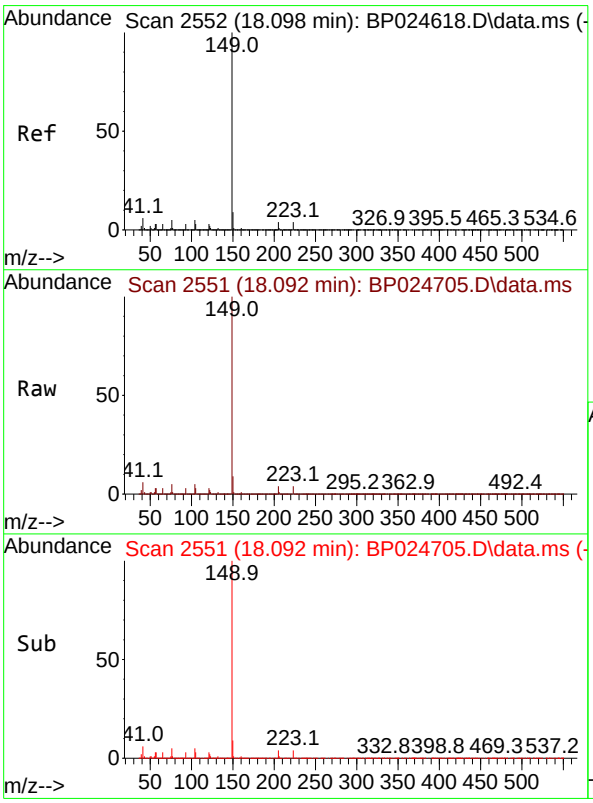
#73
Carbazole
Concen: 46.141 ng
RT: 17.504 min Scan# 24
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:167 Resp: 1498786

Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.7	26.5
139	14.0	11.3	16.9

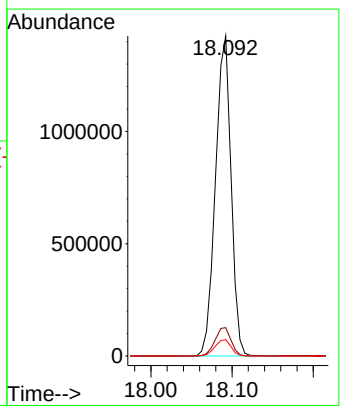


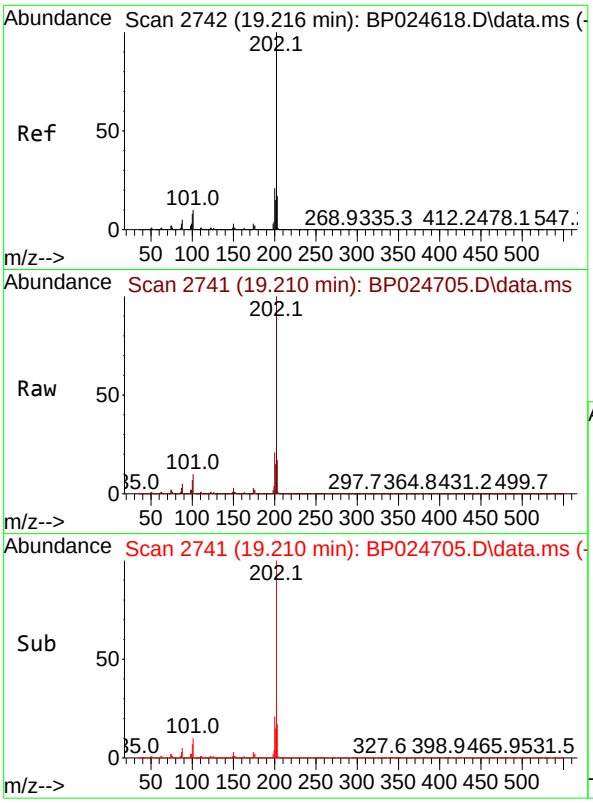


#74
Di-n-butylphthalate
Concen: 45.607 ng
RT: 18.092 min Scan# 2551
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:149 Resp: 1905276

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.2	10.8
104	5.1	4.3	6.5



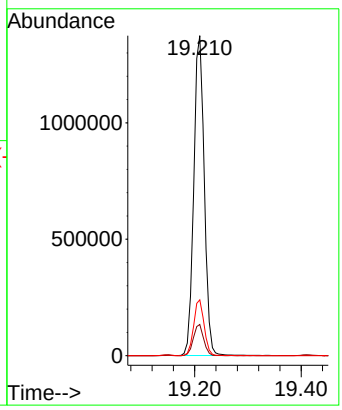


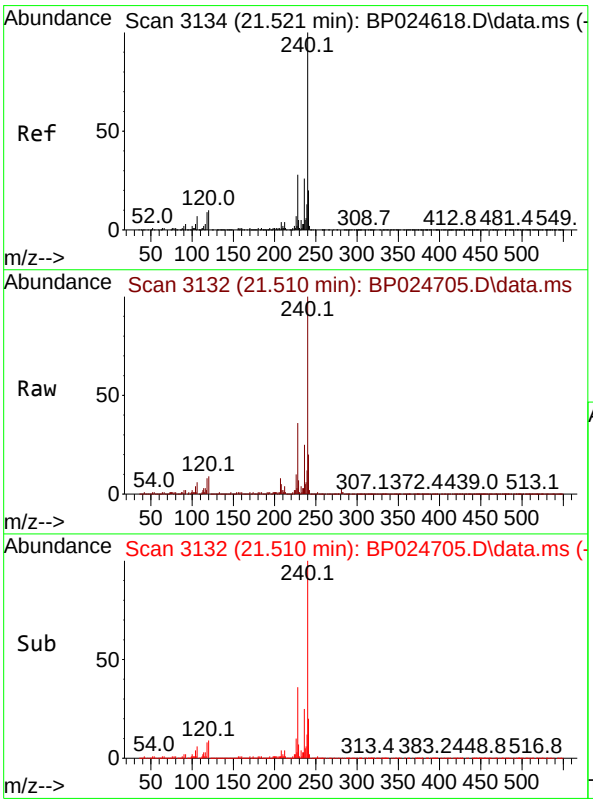
#75
Fluoranthene
Concen: 45.167 ng
RT: 19.210 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:202 Resp: 1883292

Ion	Ratio	Lower	Upper
202	100		
101	9.8	0.0	30.3
203	17.4	0.0	37.5

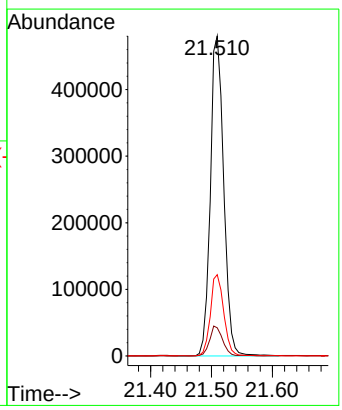


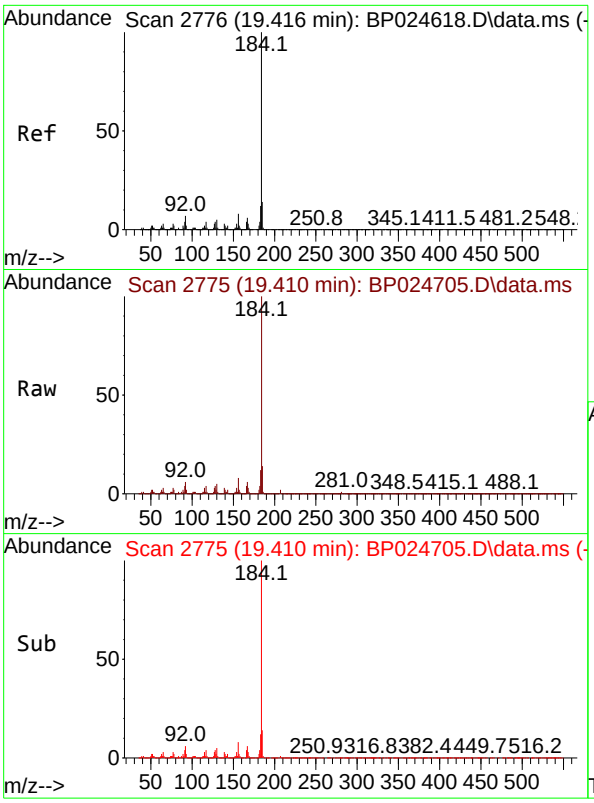


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.510 min Scan# 3132
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:240 Resp: 731405

Ion	Ratio	Lower	Upper
240	100		
120	8.8	7.8	11.6
236	25.4	20.6	31.0



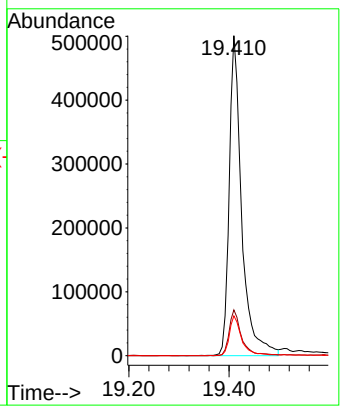


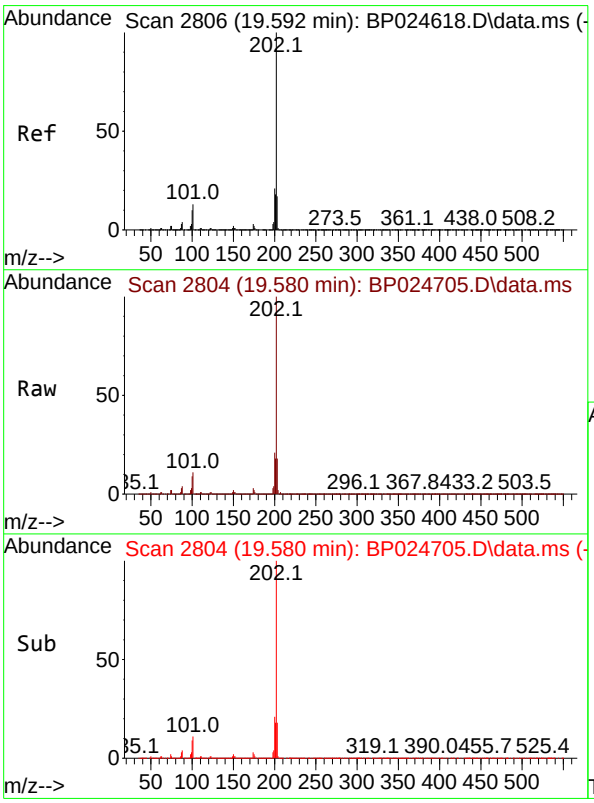
#77
Benzidine
Concen: 43.463 ng
RT: 19.410 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:184 Resp: 865814

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.2	16.8
183	12.5	9.8	14.8

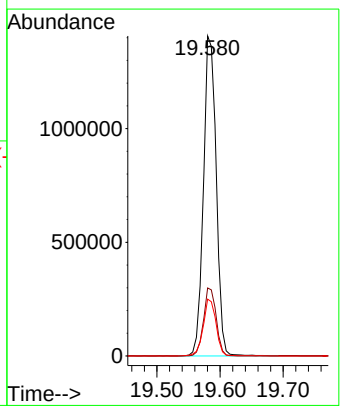


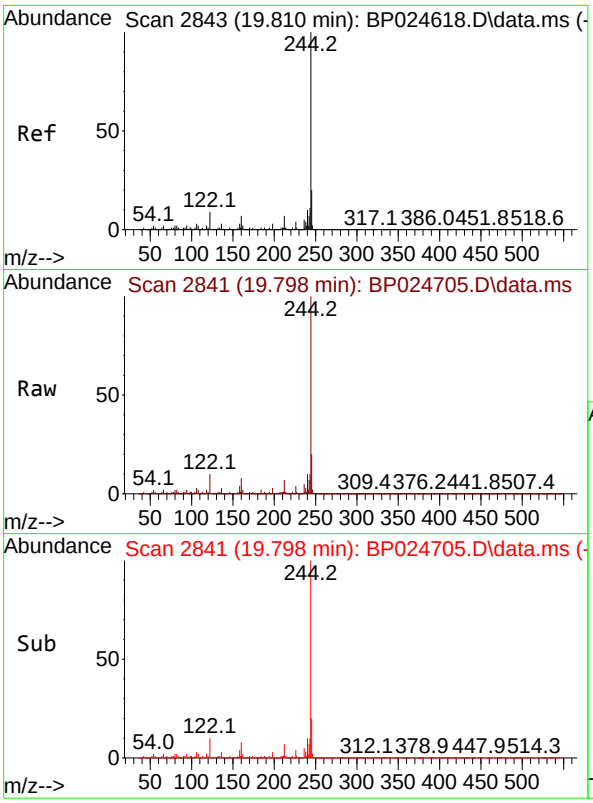


#78
Pyrene
Concen: 45.182 ng
RT: 19.580 min Scan# 2804
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:202 Resp: 1980054

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	17.7	13.9	20.9



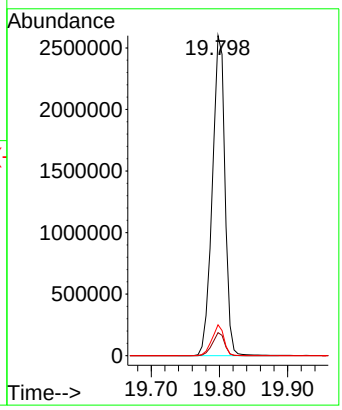


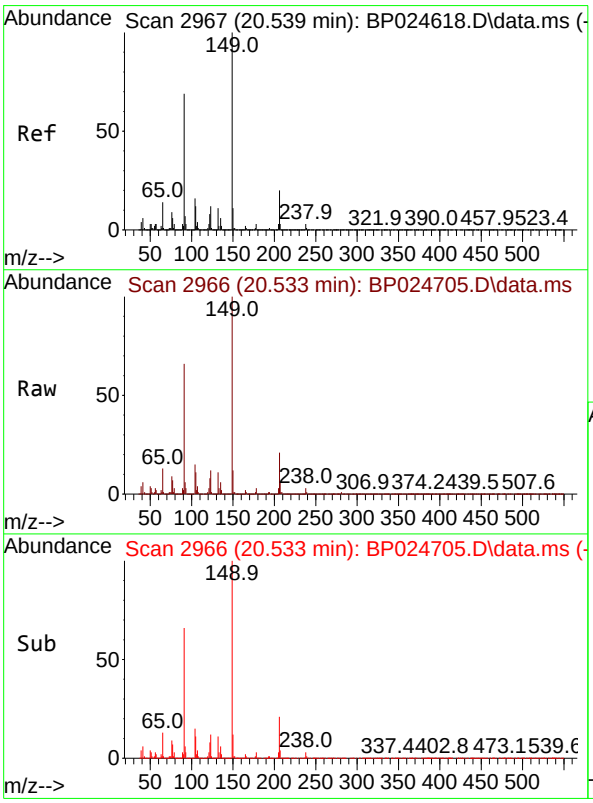
#79
Terphenyl-d14
Concen: 78.639 ng
RT: 19.798 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:244 Resp: 3354339

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.5	8.3
122	9.6	7.4	11.0

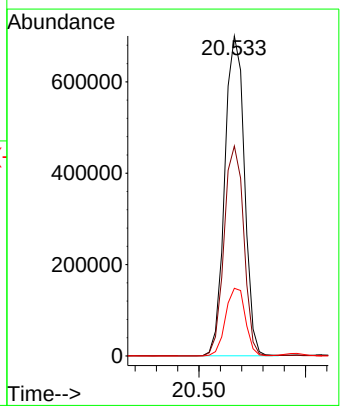


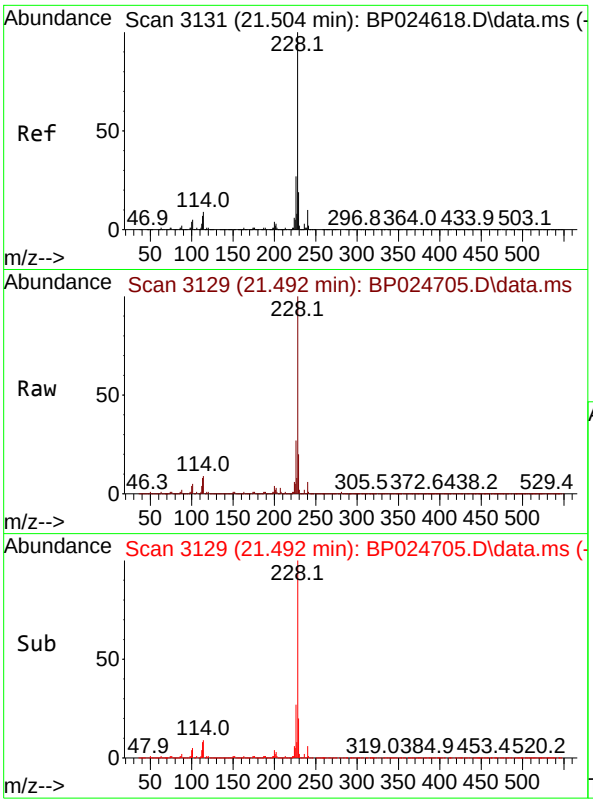


#80
Butylbenzylphthalate
Concen: 46.021 ng
RT: 20.533 min Scan# 2966
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:149 Resp: 896959

Ion	Ratio	Lower	Upper
149	100		
91	65.6	55.4	83.0
206	21.2	16.2	24.2



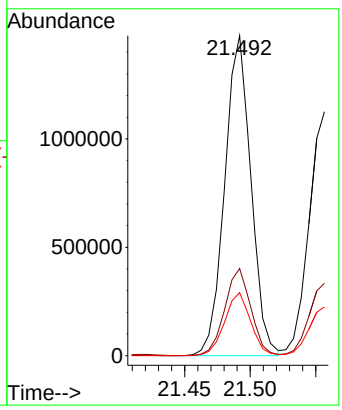


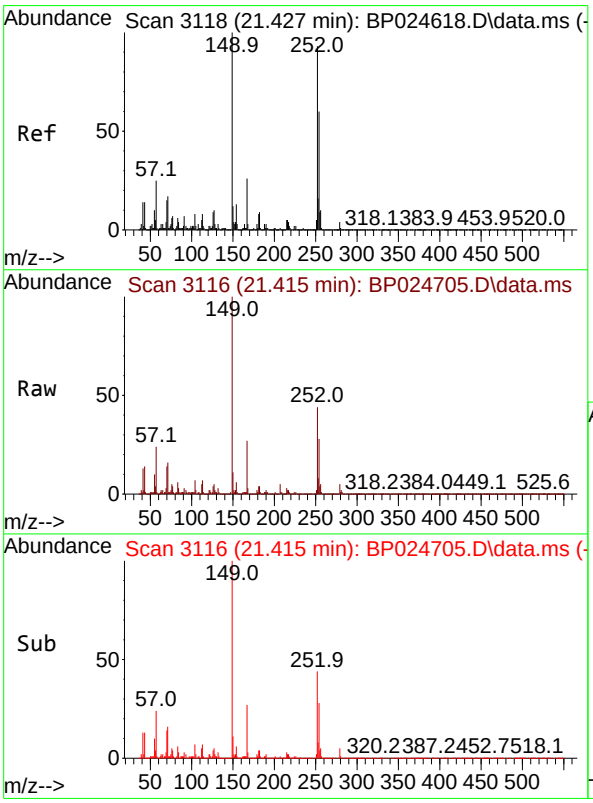
#81
Benzo(a)anthracene
Concen: 44.712 ng
RT: 21.492 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:228 Resp: 2053455

Ion	Ratio	Lower	Upper
228	100		
226	27.2	21.4	32.0
229	19.7	15.5	23.3

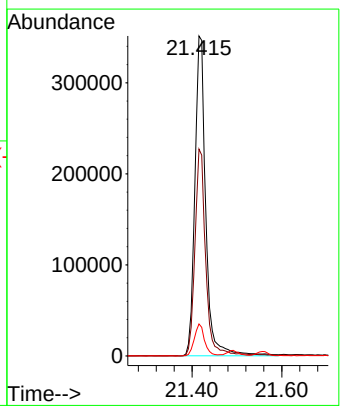


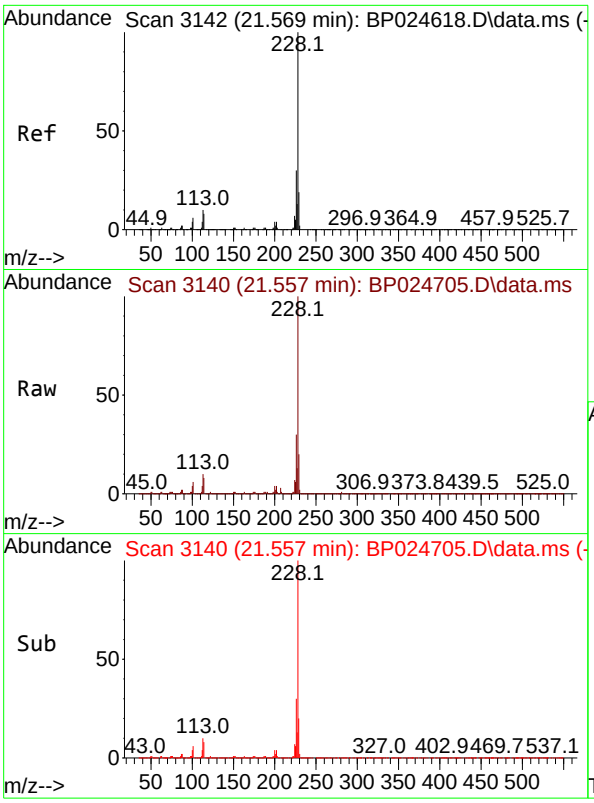


#82
3,3'-Dichlorobenzidine
Concen: 34.718 ng
RT: 21.415 min Scan# 3116
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:252 Resp: 592220

Ion	Ratio	Lower	Upper
252	100		
254	64.7	51.8	77.6
126	10.0	7.7	11.5



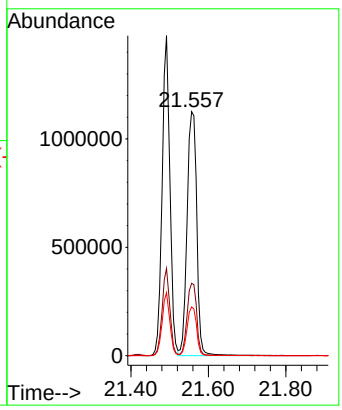


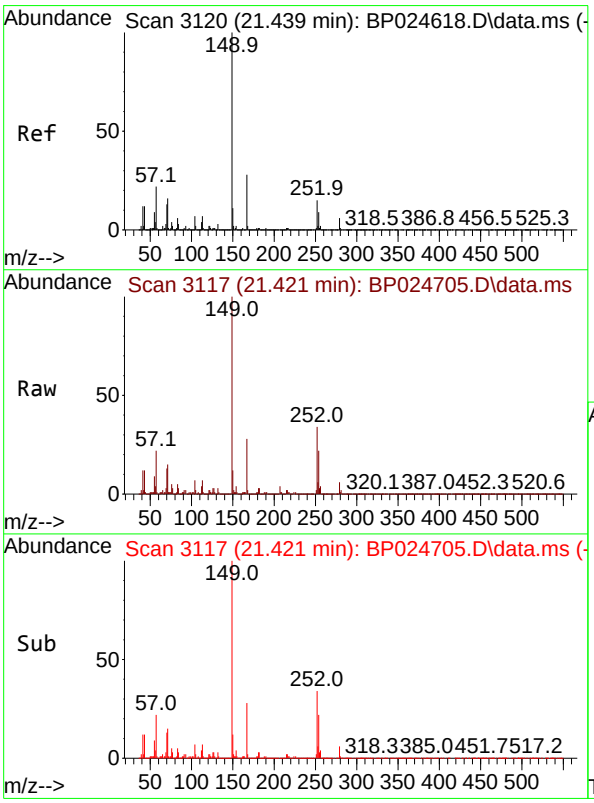
#83
Chrysene
Concen: 44.806 ng
RT: 21.557 min Scan# 31
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:228 Resp: 1950677

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.9	35.9
229	20.0	15.5	23.3

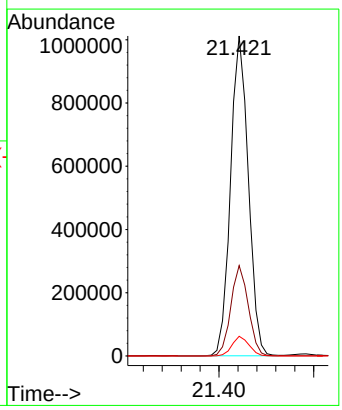


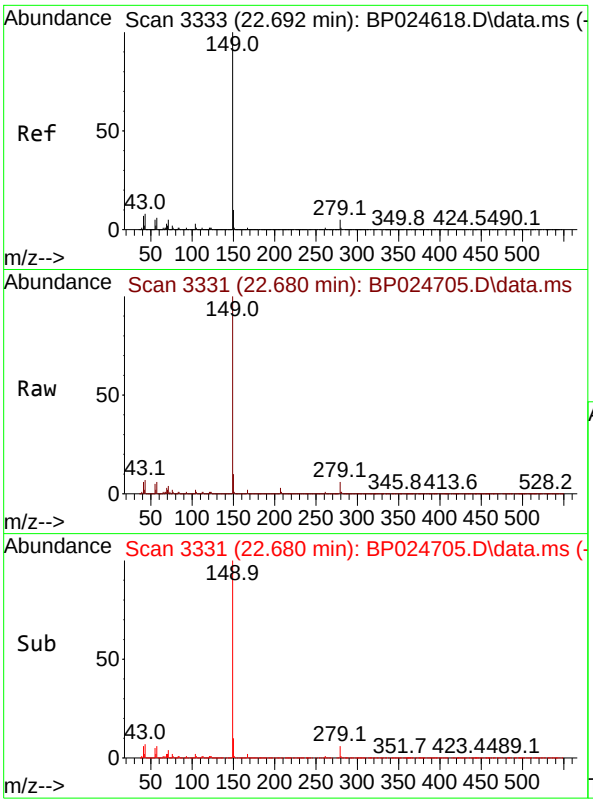


#84
Bis(2-ethylhexyl)phthalate
Concen: 46.034 ng
RT: 21.421 min Scan# 3117
Delta R.T. -0.018 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:149 Resp: 1318743

Ion	Ratio	Lower	Upper
149	100		
167	28.2	22.1	33.1
279	6.1	4.6	6.8



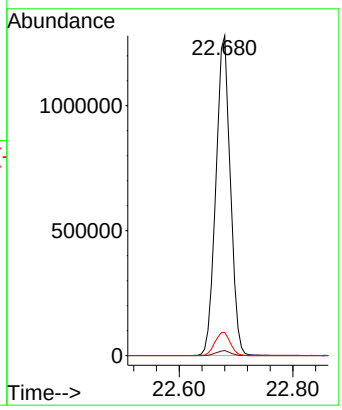


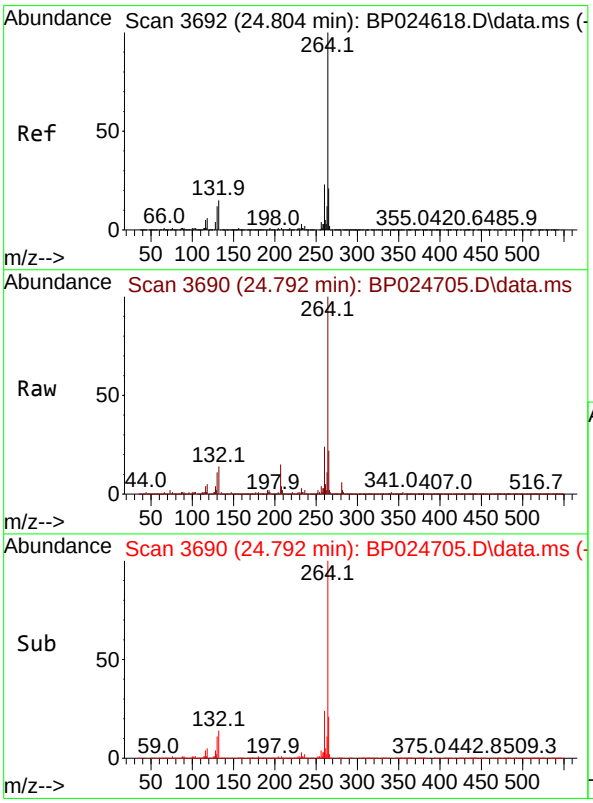
#85
Di-n-octyl phthalate
Concen: 48.236 ng
RT: 22.680 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:149 Resp: 2259680

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.7	6.3	9.5

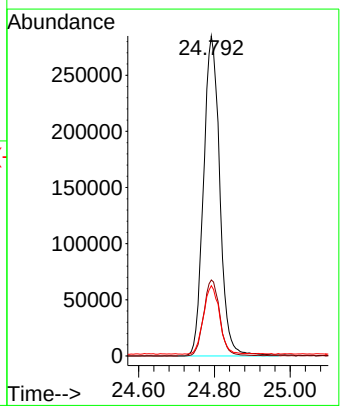


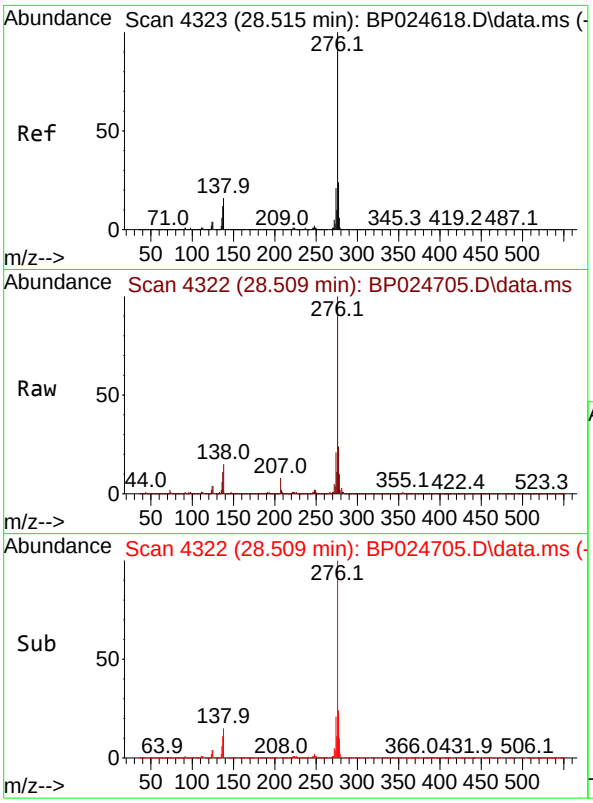


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.792 min Scan# 3690
Delta R.T. -0.012 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:264 Resp: 845958

Ion	Ratio	Lower	Upper
264	100		
260	23.8	18.7	28.1
265	22.0	17.0	25.6



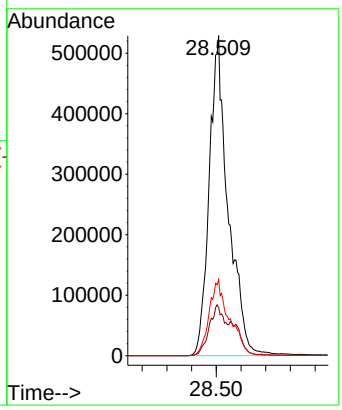


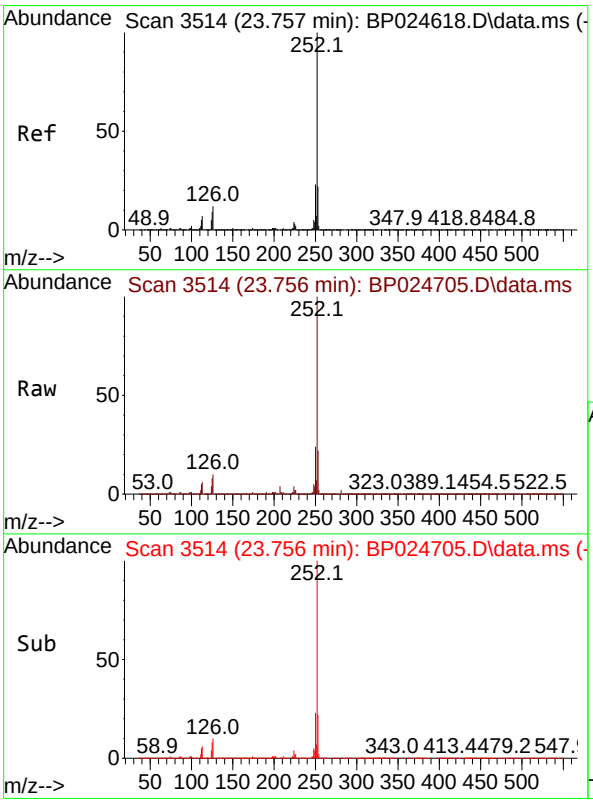
#87
Indeno(1,2,3-cd)pyrene
Concen: 45.469 ng
RT: 28.509 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:276 Resp: 2808165

Ion	Ratio	Lower	Upper
276	100		
138	13.3	11.2	16.8
277	25.4	15.7	23.5#

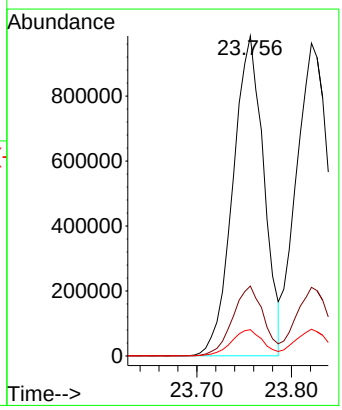


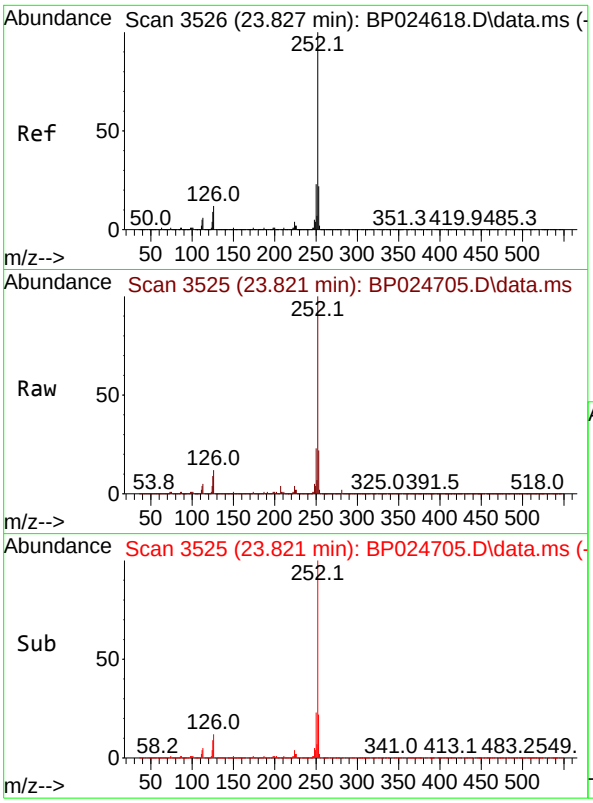


#88
Benzo(b)fluoranthene
Concen: 46.126 ng
RT: 23.756 min Scan# 3514
Delta R.T. -0.000 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:252 Resp: 2233491

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	8.2	7.5	11.3



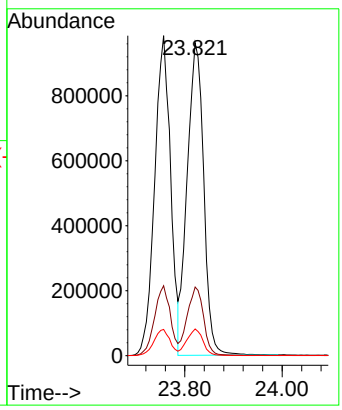


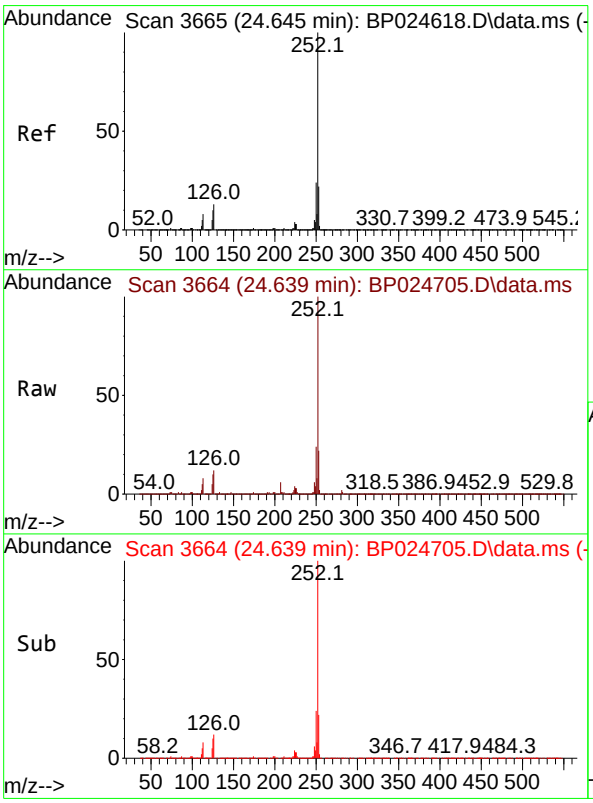
#89
Benzo(k)fluoranthene
Concen: 45.515 ng
RT: 23.821 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:252 Resp: 2270983

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	8.6	7.0	10.4

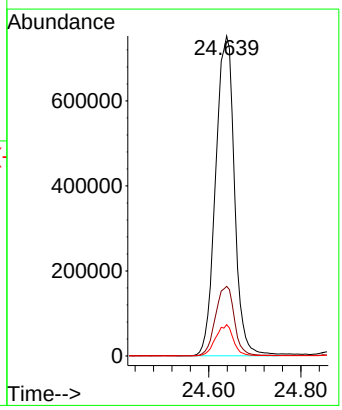


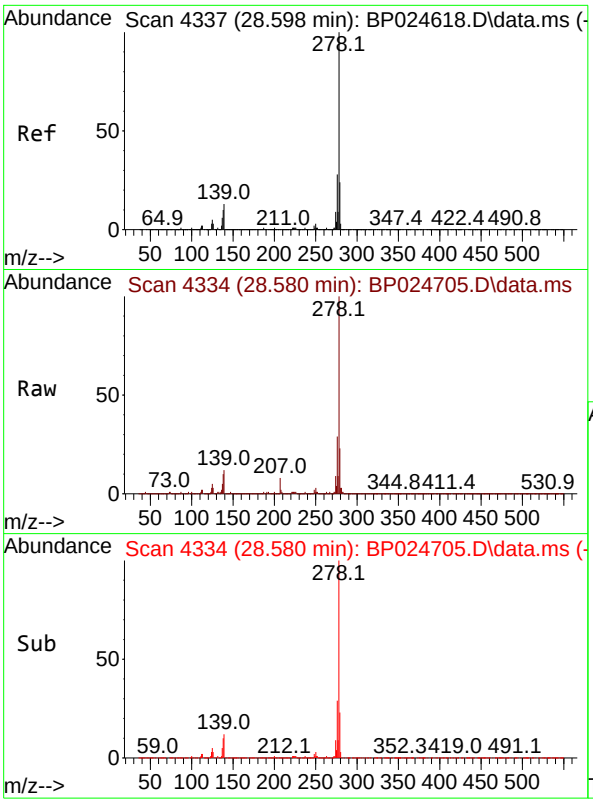


#90
Benzo(a)pyrene
Concen: 45.887 ng
RT: 24.639 min Scan# 3664
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:252 Resp: 2133961

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	9.8	8.1	12.1



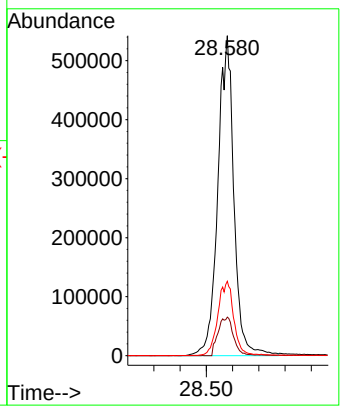


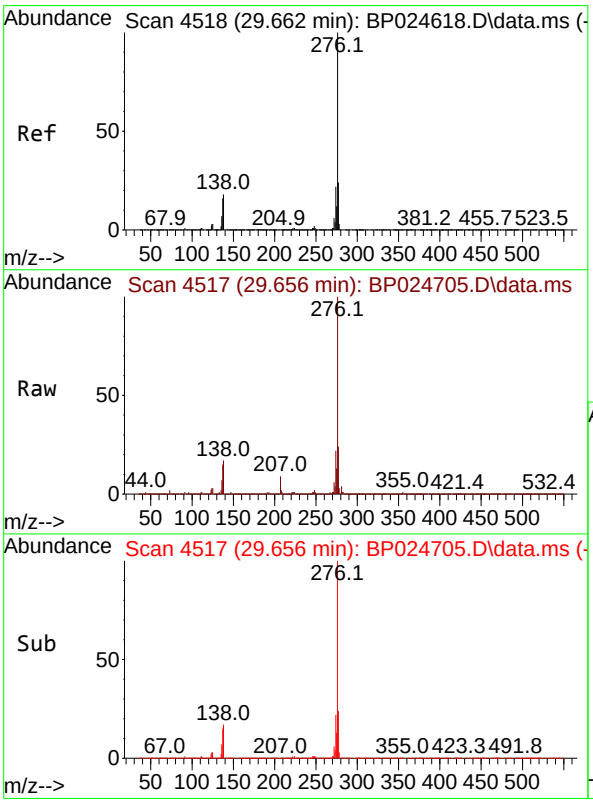
#91
Dibenzo(a,h)anthracene
Concen: 45.786 ng
RT: 28.580 min Scan# 4
Delta R.T. -0.018 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Instrument :
BNA_P
ClientSampleId :
PB168052BS

Tgt Ion:278 Resp: 2300458

Ion	Ratio	Lower	Upper
278	100		
139	12.1	10.2	15.4
279	23.3	19.0	28.4

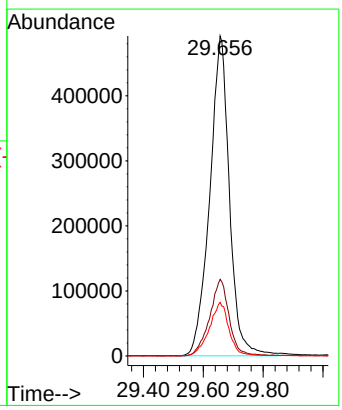




#92
Benzo(g,h,i)perylene
Concen: 44.853 ng
RT: 29.656 min Scan# 4517
Delta R.T. -0.006 min
Lab File: BP024705.D
Acq: 20 May 2025 13:14

Tgt Ion:276 Resp: 2241059

Ion	Ratio	Lower	Upper
276	100		
277	24.0	19.0	28.4
138	16.7	14.4	21.6



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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/08/25
Project:	Raymark Superfund Site	Date Received:	05/09/25
Client Sample ID:	TP-13MS	SDG No.:	Q1984
Lab Sample ID:	Q2010-02MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.4
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024638.D	1	05/13/25 09:05	05/15/25 15:18	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	1.80		0.027	0.15	0.20	mg/Kg
91-57-6	2-Methylnaphthalene	1.70		0.030	0.15	0.20	mg/Kg
208-96-8	Acenaphthylene	1.80		0.034	0.15	0.20	mg/Kg
83-32-9	Acenaphthene	1.80		0.025	0.15	0.20	mg/Kg
86-73-7	Fluorene	1.80		0.030	0.15	0.20	mg/Kg
85-01-8	Phenanthrene	1.80		0.025	0.15	0.20	mg/Kg
120-12-7	Anthracene	1.80		0.039	0.15	0.20	mg/Kg
206-44-0	Fluoranthene	1.80		0.036	0.15	0.20	mg/Kg
129-00-0	Pyrene	1.90		0.043	0.15	0.20	mg/Kg
56-55-3	Benzo(a)anthracene	1.80		0.027	0.15	0.20	mg/Kg
218-01-9	Chrysene	1.80		0.024	0.15	0.20	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.90		0.023	0.15	0.20	mg/Kg
207-08-9	Benzo(k)fluoranthene	1.80		0.027	0.15	0.20	mg/Kg
50-32-8	Benzo(a)pyrene	1.90		0.035	0.15	0.20	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.90		0.034	0.15	0.20	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	1.90		0.032	0.15	0.20	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.90		0.030	0.15	0.20	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	50.9		37 - 122		51%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.9		44 - 115		51%	SPK: 100
1718-51-0	Terphenyl-d14	48.7	*	54 - 127		49%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	166000	7.658				
1146-65-2	Naphthalene-d8	634000	10.428				
15067-26-2	Acenaphthene-d10	379000	14.298				
1517-22-2	Phenanthrene-d10	753000	17.098				
1719-03-5	Chrysene-d12	843000	21.527				
1520-96-3	Perylene-d12	953000	24.798				

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/08/25
Project:	Raymark Superfund Site	Date Received:	05/09/25
Client Sample ID:	TP-13MS	SDG No.:	Q1984
Lab Sample ID:	Q2010-02MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.4
Sample Wt/Vol:	30.05 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024638.D	1	05/13/25 09:05	05/15/25 15:18	PB167973

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_P\Data\BP051525\
Data File : BP024638.D
Acq On : 15 May 2025 15:18
Operator : RC/JU
Sample : Q2010-02MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Quant Time: May 15 15:48:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.658	152	165529	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	634360	20.000	ng	0.00
39) Acenaphthene-d10	14.298	164	378565	20.000	ng	0.00
64) Phenanthrene-d10	17.098	188	753325	20.000	ng	0.00
76) Chrysene-d12	21.527	240	842505	20.000	ng	0.00
86) Perylene-d12	24.798	264	953147	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	856774	88.528	ng	0.00
7) Phenol-d6	6.852	99	1057784	85.639	ng	0.00
23) Nitrobenzene-d5	8.810	82	638968	50.893	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	562674	87.674	ng	0.00
45) 2-Fluorobiphenyl	12.899	172	1470035	50.874	ng	0.00
79) Terphenyl-d14	19.816	244	2392705	48.697	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.228	88	169804	37.365	ng	99
3) Pyridine	3.623	79	411638	40.850	ng	99
4) n-Nitrosodimethylamine	3.534	42	193142	43.416	ng	97
6) Aniline	6.999	93	561977	35.240	ng	100
8) 2-Chlorophenol	7.234	128	509228	46.350	ng	99
9) Benzaldehyde	6.816	77	316969	39.642	ng	99
10) Phenol	6.881	94	593400	46.547	ng	100
11) bis(2-Chloroethyl)ether	7.093	93	436677	41.686	ng	99
12) 1,3-Dichlorobenzene	7.552	146	547308	43.299	ng	98
13) 1,4-Dichlorobenzene	7.693	146	552518	43.461	ng	99
14) 1,2-Dichlorobenzene	8.005	146	528682	42.677	ng	99
15) Benzyl Alcohol	7.905	79	419911	44.736	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.187	45	507352	40.442	ng	99
17) 2-Methylphenol	8.111	107	404526	44.241	ng	98
18) Hexachloroethane	8.722	117	197785	40.599	ng	98
19) n-Nitroso-di-n-propyla...	8.463	70	296270	34.675	ng	97
20) 3+4-Methylphenols	8.434	107	498876	40.109	ng	100
22) Acetophenone	8.475	105	654869	41.327	ng	98
24) Nitrobenzene	8.852	77	501541	45.394	ng	96
25) Isophorone	9.375	82	937975	43.069	ng	99
26) 2-Nitrophenol	9.557	139	270894	50.036	ng	99
27) 2,4-Dimethylphenol	9.622	122	450968	47.245	ng	99
28) bis(2-Chloroethoxy)met...	9.852	93	571836	43.950	ng	99
29) 2,4-Dichlorophenol	10.087	162	448301	48.465	ng	97
30) 1,2,4-Trichlorobenzene	10.299	180	474967	45.566	ng	98
31) Naphthalene	10.481	128	1469571	44.704	ng	100
32) Benzoic acid	9.793	122	336377	50.212	ng	98
33) 4-Chloroaniline	10.599	127	373803	28.179	ng	98
34) Hexachlorobutadiene	10.763	225	309121	45.778	ng	96
35) Caprolactam	11.387	113	157614	47.096	ng	99
36) 4-Chloro-3-methylphenol	11.734	107	516210	45.762	ng	99
37) 2-Methylnaphthalene	12.093	142	926779	43.540	ng	99
38) 1-Methylnaphthalene	12.310	142	972826	42.714	ng	100
40) 1,2,4,5-Tetrachloroben...	12.469	216	524927	47.751	ng	99
41) Hexachlorocyclopentadiene	12.446	237	756205	113.445	ng	96
43) 2,4,6-Trichlorophenol	12.716	196	368341	51.731	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024638.D
Acq On : 15 May 2025 15:18
Operator : RC/JU
Sample : Q2010-02MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Quant Time: May 15 15:48:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

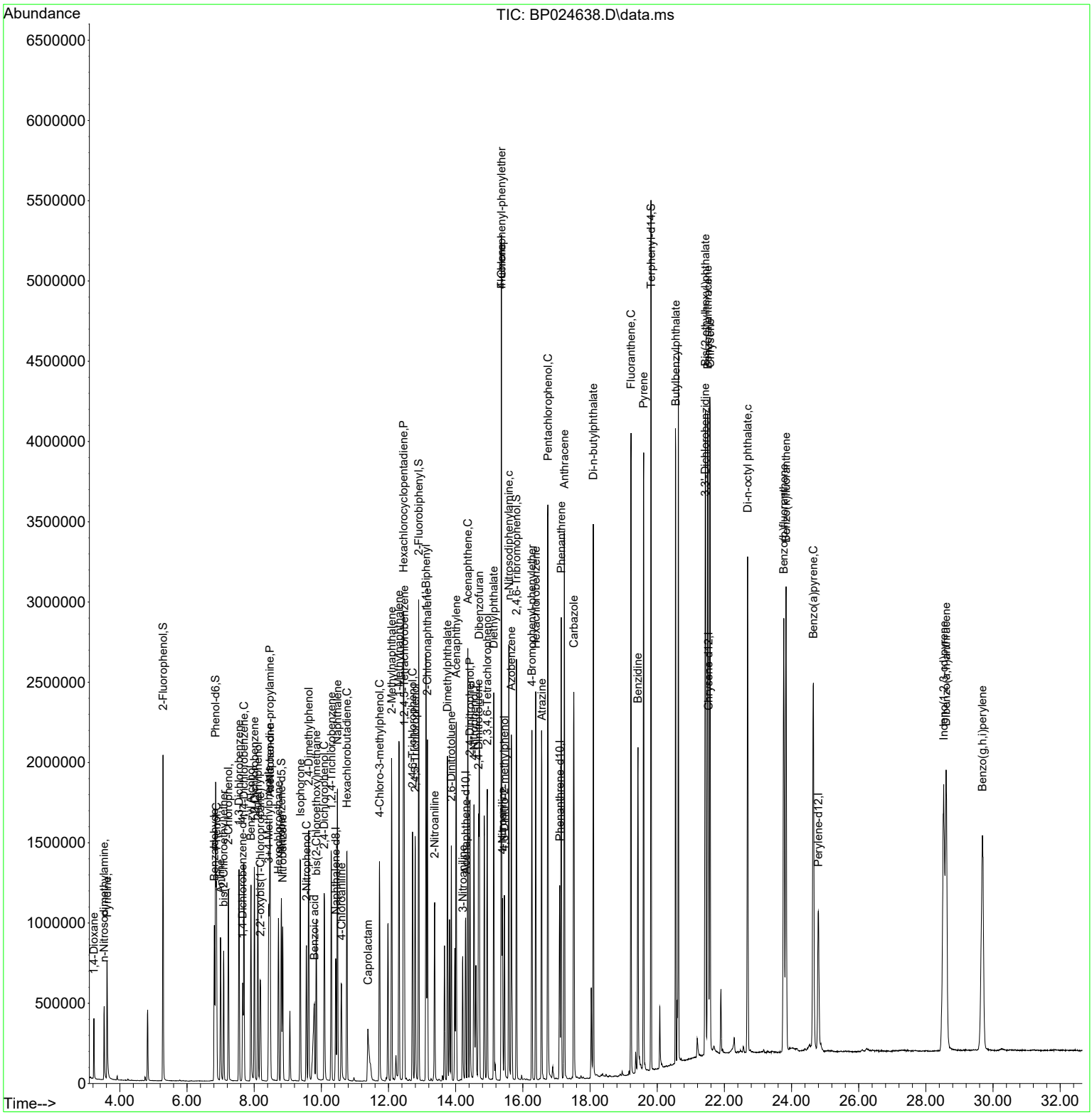
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.793	196	403367	50.893	ng	98
46) 1,1'-Biphenyl	13.116	154	1301925	46.530	ng	100
47) 2-Chloronaphthalene	13.157	162	993000	46.545	ng	99
48) 2-Nitroaniline	13.375	65	311778	49.362	ng	97
49) Acenaphthylene	14.016	152	1622957	45.458	ng	99
50) Dimethylphthalate	13.757	163	1296579	44.935	ng	100
51) 2,6-Dinitrotoluene	13.869	165	284162	46.631	ng	98
52) Acenaphthene	14.363	154	929691	45.296	ng	99
53) 3-Nitroaniline	14.210	138	212436	34.141	ng	99
54) 2,4-Dinitrophenol	14.428	184	374950	96.168	ng	97
55) Dibenzofuran	14.704	168	1491506	45.559	ng	98
56) 4-Nitrophenol	14.545	139	528415	97.134	ng	99
57) 2,4-Dinitrotoluene	14.681	165	411100	47.851	ng	98
58) Fluorene	15.363	166	1230074	46.080	ng	99
59) 2,3,4,6-Tetrachlorophenol	14.940	232	358164	48.714	ng	99
60) Diethylphthalate	15.134	149	1329786	45.598	ng	99
61) 4-Chlorophenyl-phenyle...	15.363	204	608237	45.689	ng	99
62) 4-Nitroaniline	15.392	138	301420	50.169	ng	98
63) Azobenzene	15.657	77	1250868	50.138	ng	99
65) 4,6-Dinitro-2-methylph...	15.451	198	242947	49.928	ng	98
66) n-Nitrosodiphenylamine	15.581	169	1074572	46.440	ng	100
67) 4-Bromophenyl-phenylether	16.269	248	414519	46.697	ng	98
68) Hexachlorobenzene	16.387	284	510643	45.271	ng	98
69) Atrazine	16.563	200	406566	47.945	ng	99
70) Pentachlorophenol	16.745	266	695823	109.894	ng	99
71) Phenanthrene	17.145	178	1893808	45.222	ng	100
72) Anthracene	17.234	178	1971542	46.792	ng	99
73) Carbazole	17.516	167	1837012	48.170	ng	99
74) Di-n-butylphthalate	18.098	149	2364678	48.214	ng	99
75) Fluoranthene	19.222	202	2288323	46.745	ng	99
77) Benzidine	19.428	184	1224992	53.385	ng	100
78) Pyrene	19.598	202	2380843	47.163	ng	100
80) Butylbenzylphthalate	20.551	149	1148313	51.148	ng	93
81) Benzo(a)anthracene	21.504	228	2459103	46.484	ng	99
82) 3,3'-Dichlorobenzidine	21.427	252	645946	32.874	ng	99
83) Chrysene	21.575	228	2300052	45.864	ng	100
84) Bis(2-ethylhexyl)phtha...	21.439	149	1659519	50.290	ng	100
85) Di-n-octyl phthalate	22.692	149	2851767	52.847	ng	99
87) Indeno(1,2,3-cd)pyrene	28.533	276	3290454	47.287	ng	98
88) Benzo(b)fluoranthene	23.769	252	2609378	47.829	ng	100
89) Benzo(k)fluoranthene	23.839	252	2568026	45.681	ng	99
90) Benzo(a)pyrene	24.651	252	2461650	46.981	ng	99
91) Dibenzo(a,h)anthracene	28.604	278	2694828	47.603	ng	98
92) Benzo(g,h,i)perylene	29.686	276	2668855	47.408	ng	99

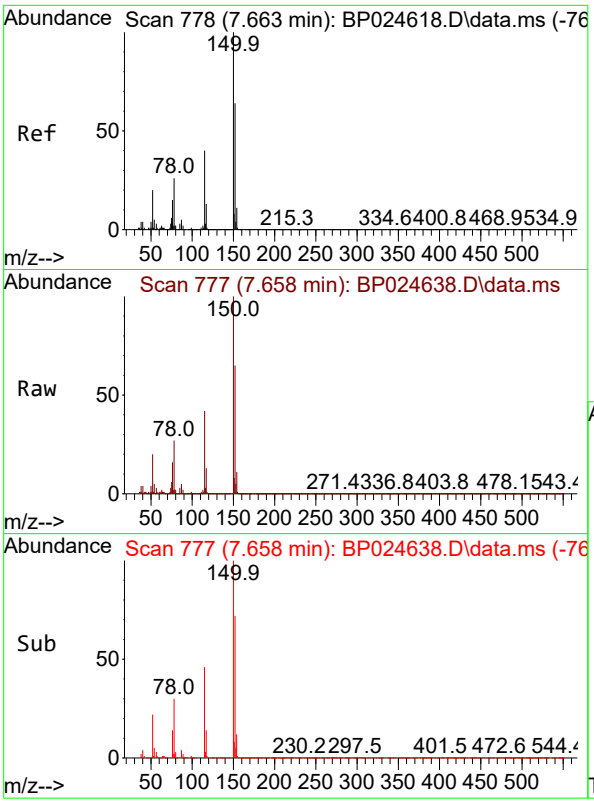
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024638.D
Acq On : 15 May 2025 15:18
Operator : RC/JU
Sample : Q2010-02MS
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Quant Time: May 15 15:48:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



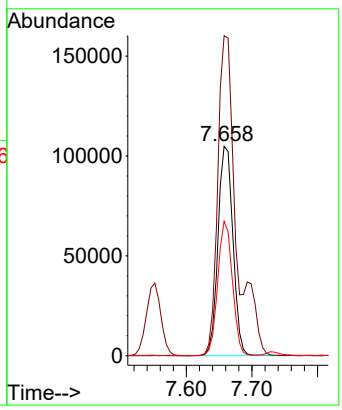


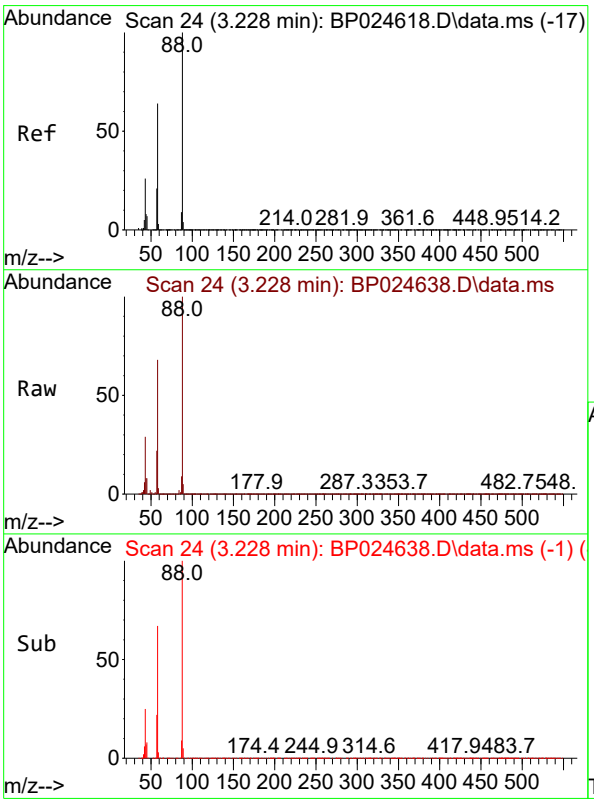
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.658 min Scan# 7
Delta R.T. -0.005 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:152 Resp: 165529

Ion	Ratio	Lower	Upper
152	100		
150	152.8	125.9	188.9
115	64.2	50.1	75.1

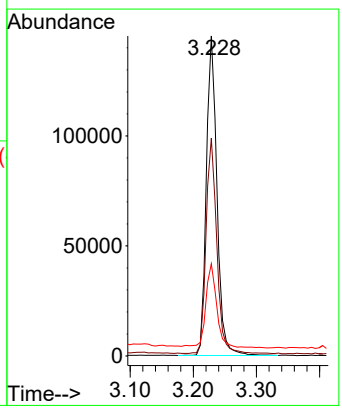


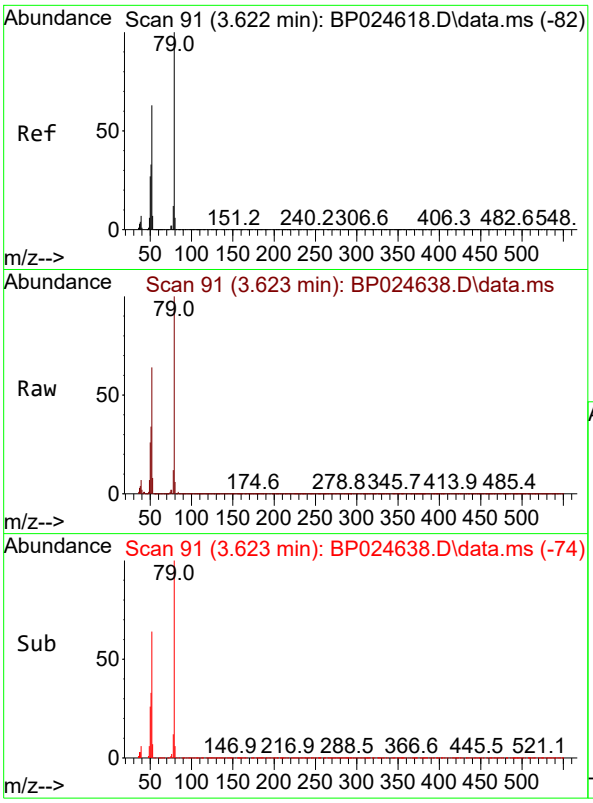


#2
1,4-Dioxane
Concen: 37.365 ng
RT: 3.228 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion: 88 Resp: 169804

Ion	Ratio	Lower	Upper
88	100		
58	68.2	54.0	81.0
43	28.0	21.4	32.0



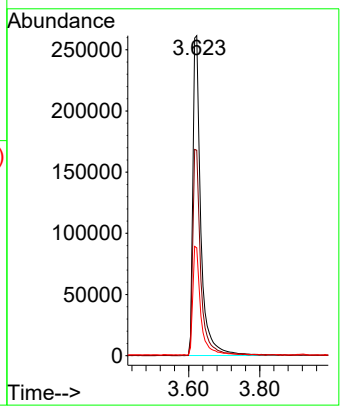


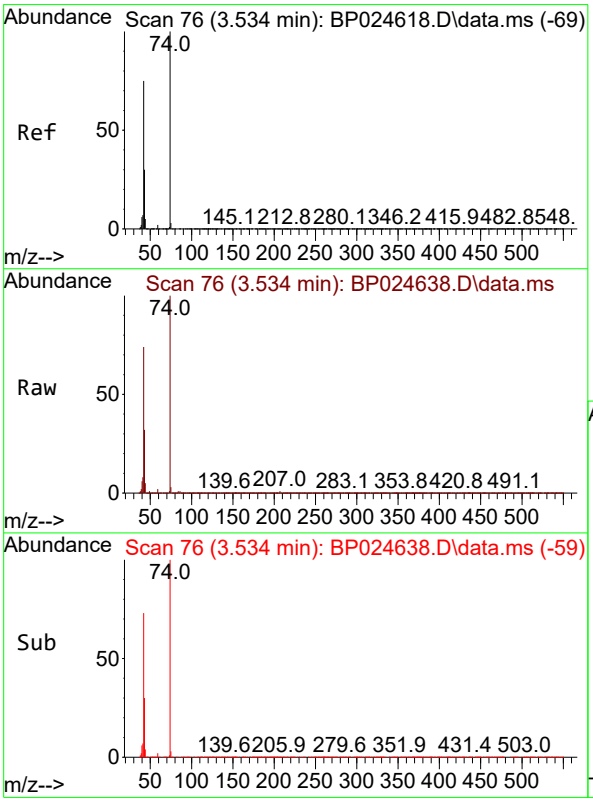
#3
Pyridine
Concen: 40.850 ng
RT: 3.623 min Scan# 91
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion: 79 Resp: 411638

Ion	Ratio	Lower	Upper
79	100		
52	64.2	50.2	75.2
51	33.7	26.8	40.2

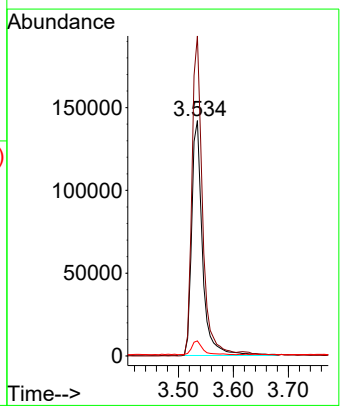


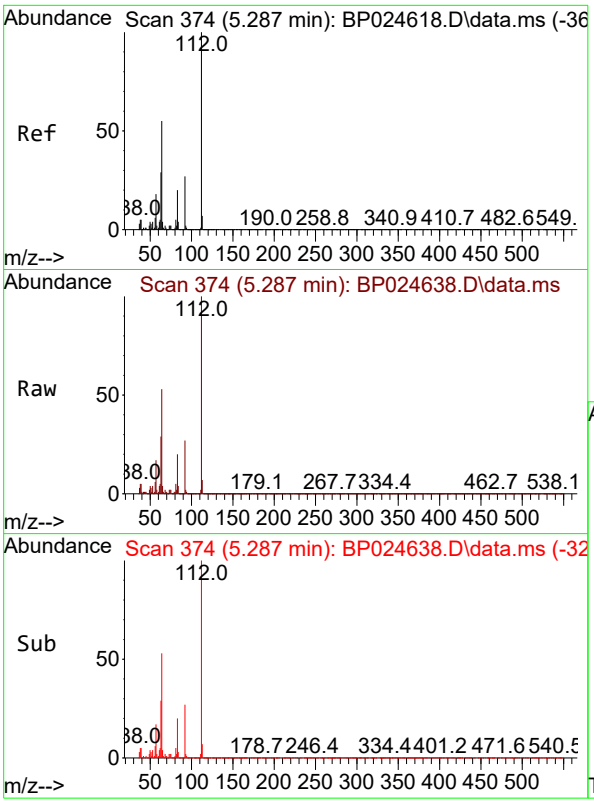


#4
n-Nitrosodimethylamine
Concen: 43.416 ng
RT: 3.534 min Scan# 76
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion: 42 Resp: 193142

Ion	Ratio	Lower	Upper
42	100		
74	135.9	106.2	159.2
44	6.4	5.4	8.2



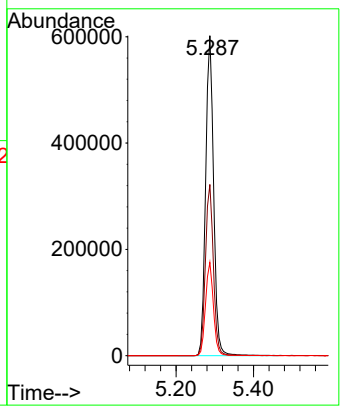


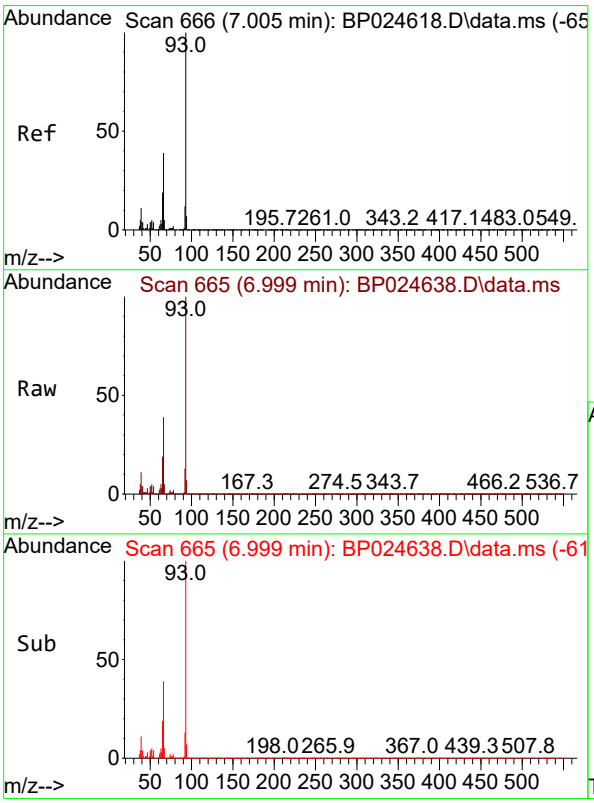
#5
2-Fluorophenol
Concen: 88.528 ng
RT: 5.287 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:112 Resp: 856774

Ion	Ratio	Lower	Upper
112	100		
64	53.5	44.1	66.1
63	29.1	23.5	35.3

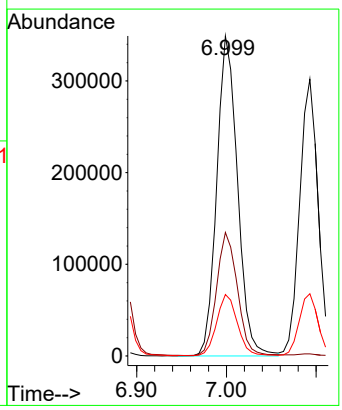


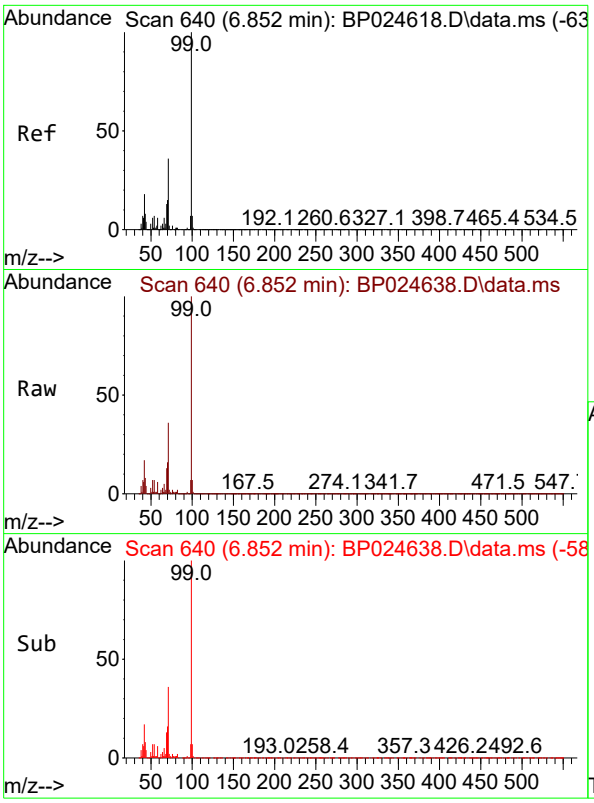


#6
Aniline
Concen: 35.240 ng
RT: 6.999 min Scan# 665
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion: 93 Resp: 561977

Ion	Ratio	Lower	Upper
93	100		
66	38.6	31.0	46.6
65	19.2	15.5	23.3



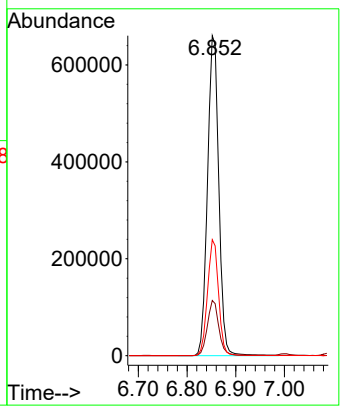


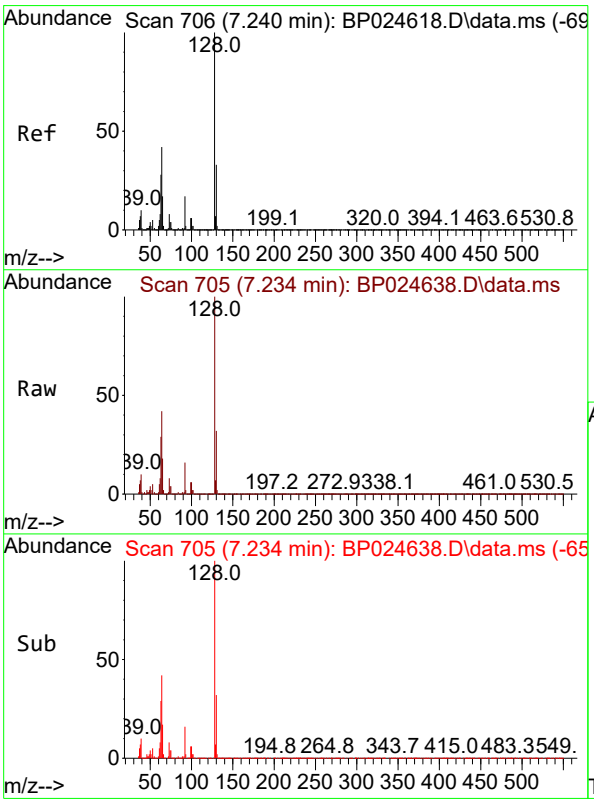
#7
Phenol-d6
Concen: 85.639 ng
RT: 6.852 min Scan# 64
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion: 99 Resp: 1057784

Ion	Ratio	Lower	Upper
99	100		
42	17.2	14.4	21.6
71	36.3	29.2	43.8

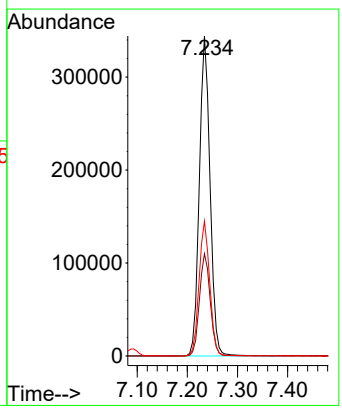


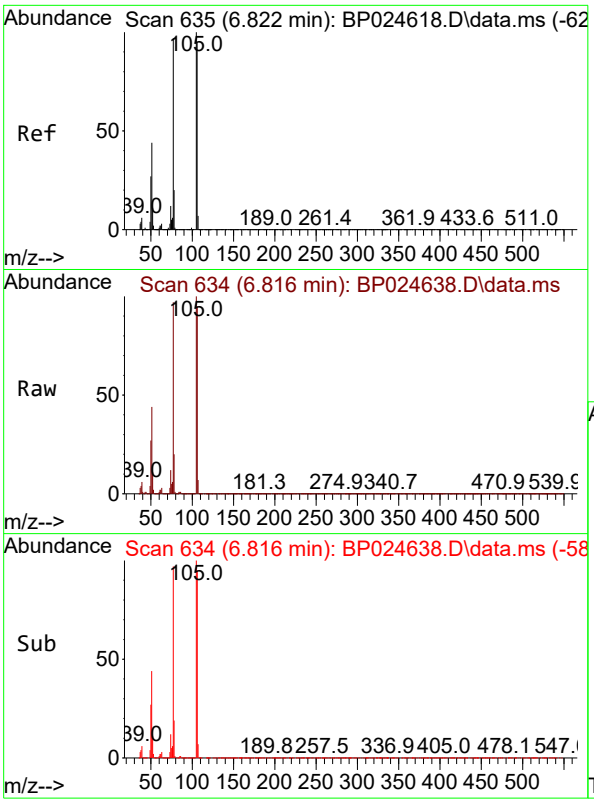


#8
2-Chlorophenol
Concen: 46.350 ng
RT: 7.234 min Scan# 705
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:128 Resp: 509228

Ion	Ratio	Lower	Upper
128	100		
130	31.9	13.0	53.0
64	42.1	22.3	62.3



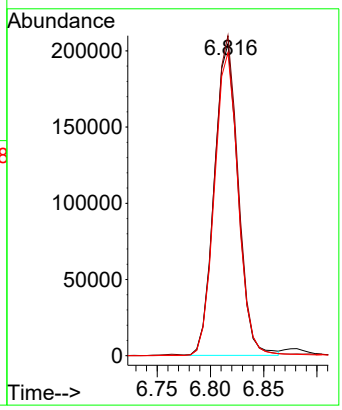


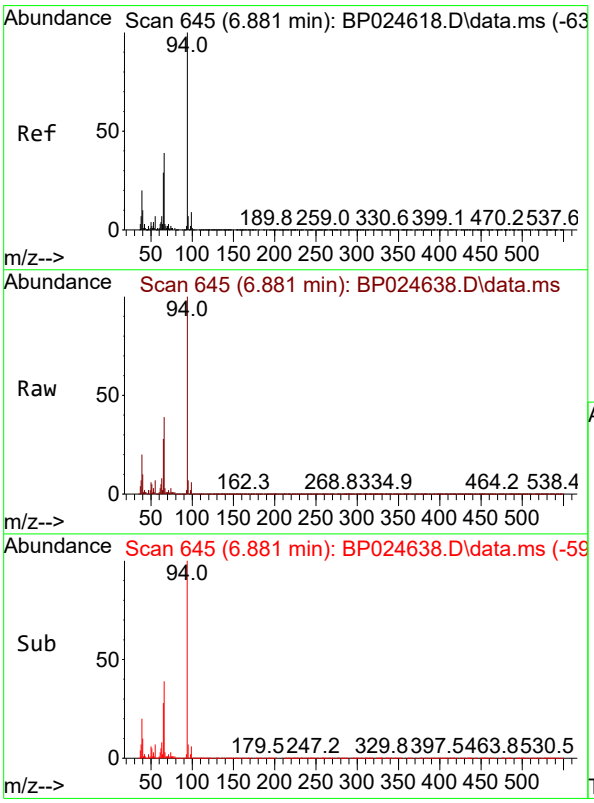
#9
Benzaldehyde
Concen: 39.642 ng
RT: 6.816 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion: 77 Resp: 316969

Ion	Ratio	Lower	Upper
77	100		
105	102.6	83.3	123.3
106	97.2	78.0	118.0

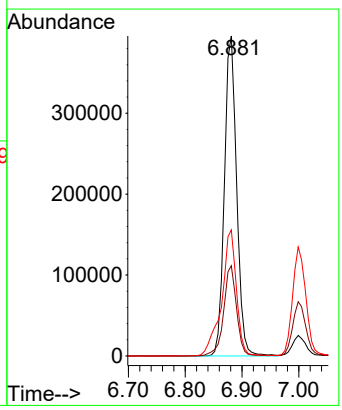


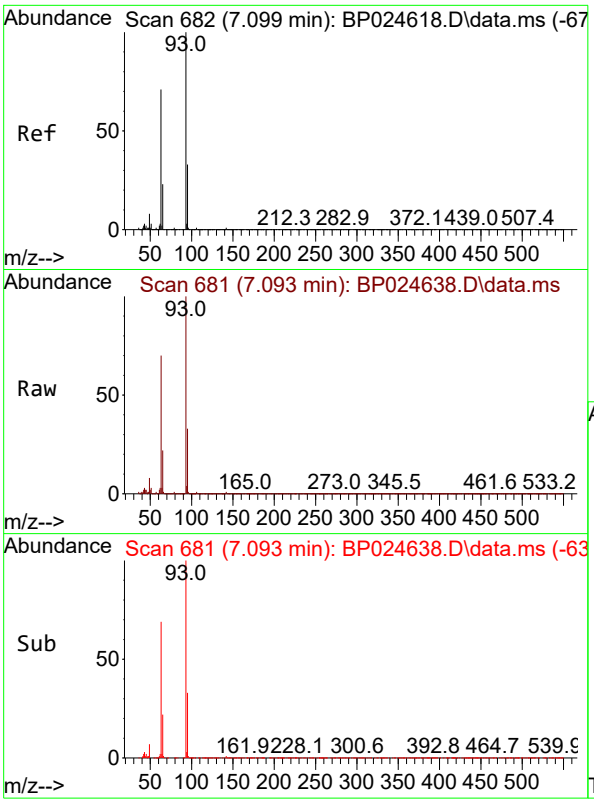


#10
Phenol
Concen: 46.547 ng
RT: 6.881 min Scan# 645
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion: 94 Resp: 593400

Ion	Ratio	Lower	Upper
94	100		
65	28.2	8.7	48.7
66	39.4	19.4	59.4



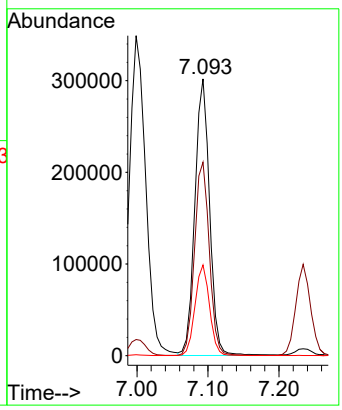


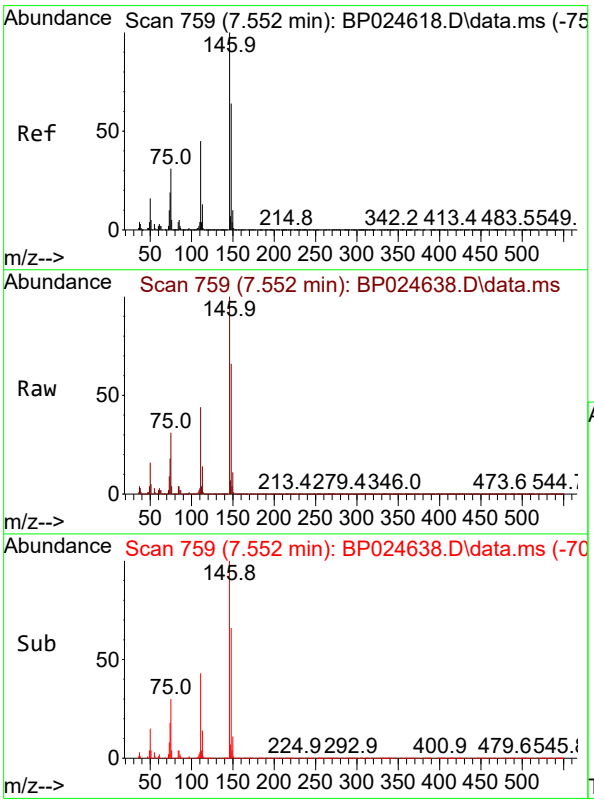
#11
bis(2-Chloroethyl)ether
Concen: 41.686 ng
RT: 7.093 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion: 93 Resp: 436677

Ion	Ratio	Lower	Upper
93	100		
63	69.9	50.6	90.6
95	32.8	12.9	52.9

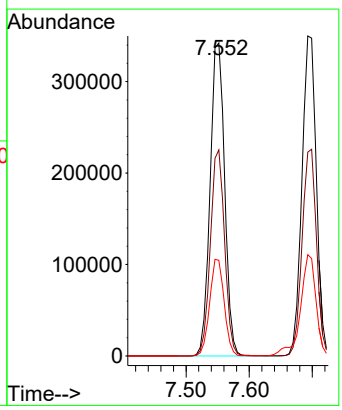


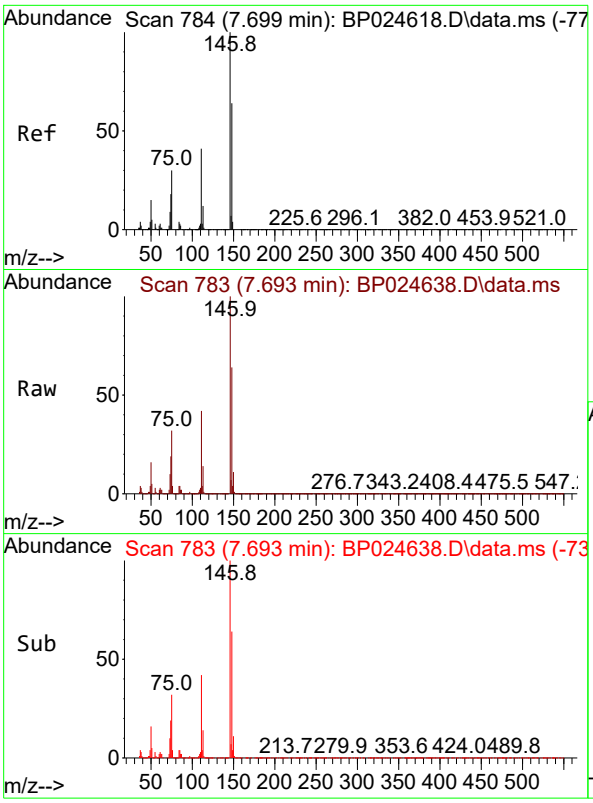


#12
1,3-Dichlorobenzene
Concen: 43.299 ng
RT: 7.552 min Scan# 759
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:146 Resp: 547308

Ion	Ratio	Lower	Upper
146	100		
148	65.8	51.4	77.2
75	30.6	25.2	37.8



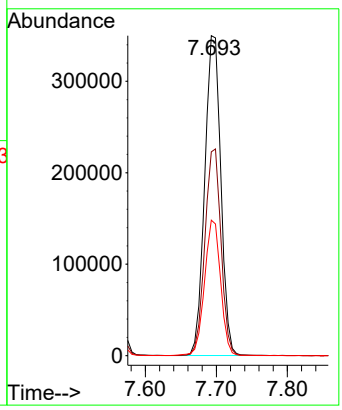


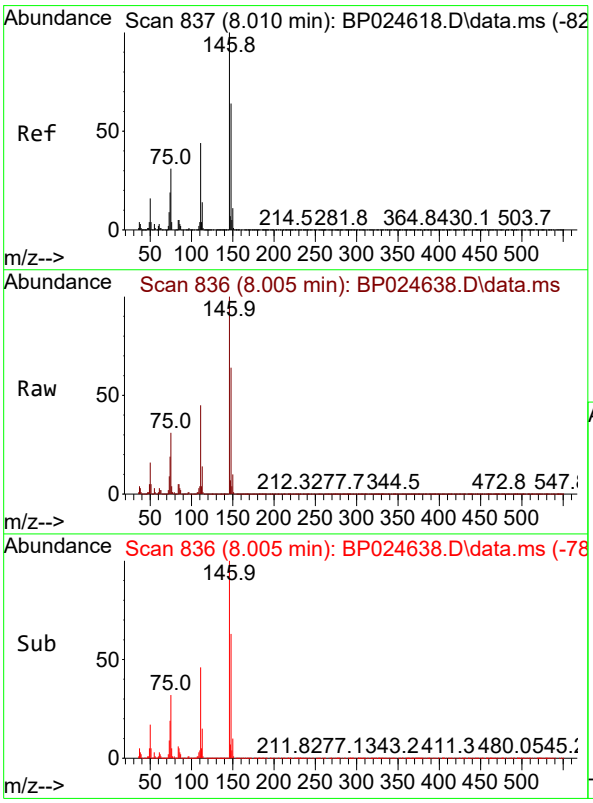
#13
1,4-Dichlorobenzene
Concen: 43.461 ng
RT: 7.693 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:146 Resp: 552518

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.0	76.6
111	42.3	33.0	49.6

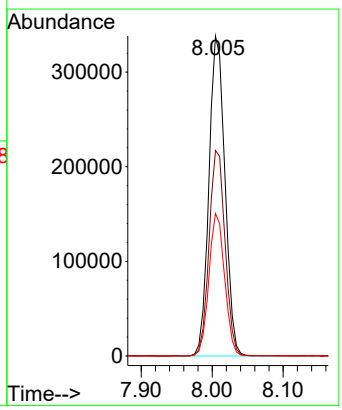


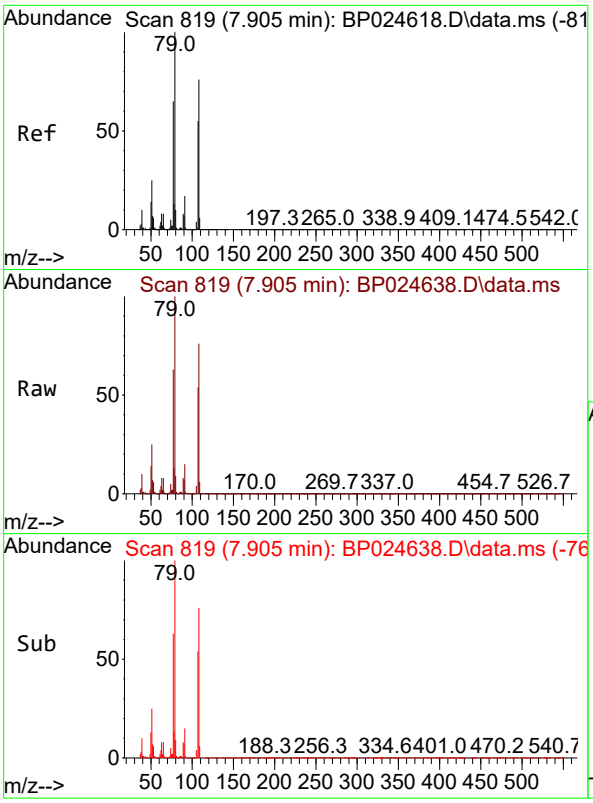


#14
1,2-Dichlorobenzene
Concen: 42.677 ng
RT: 8.005 min Scan# 836
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:146 Resp: 528682

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.4
111	44.5	35.2	52.8



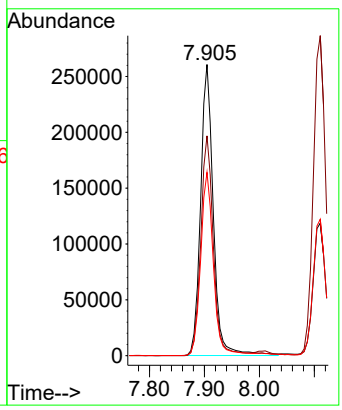


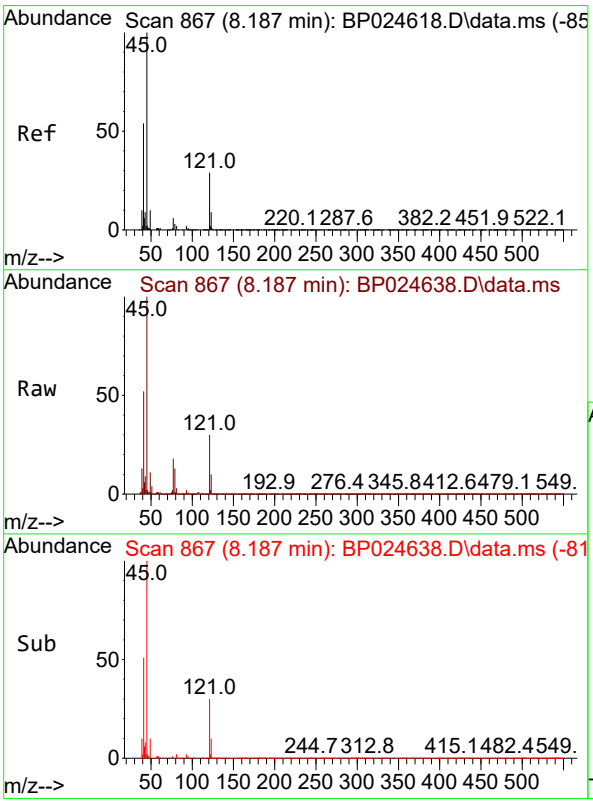
#15
Benzyl Alcohol
Concen: 44.736 ng
RT: 7.905 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion: 79 Resp: 419911

Ion	Ratio	Lower	Upper
79	100		
108	75.5	60.8	91.2
77	63.0	51.9	77.9

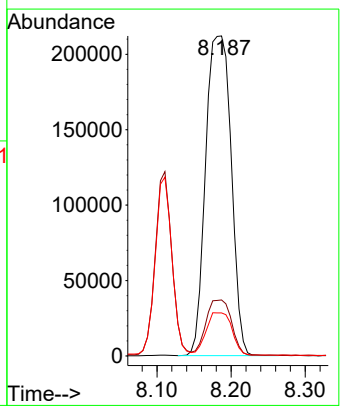


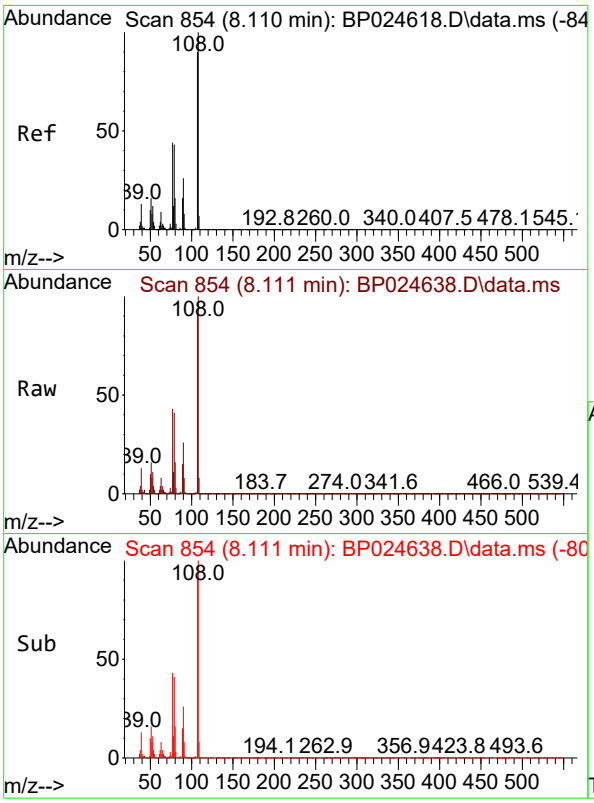


#16
2,2'-oxybis(1-Chloropropane)
Concen: 40.442 ng
RT: 8.187 min Scan# 867
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion: 45 Resp: 507352

Ion	Ratio	Lower	Upper
45	100		
77	17.5	0.0	37.7
79	13.5	0.0	34.0



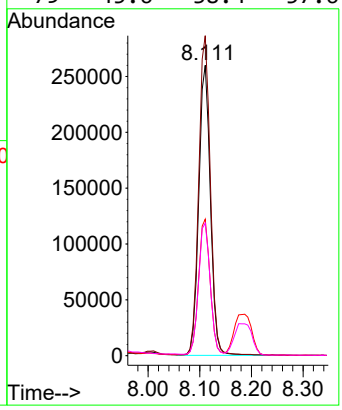


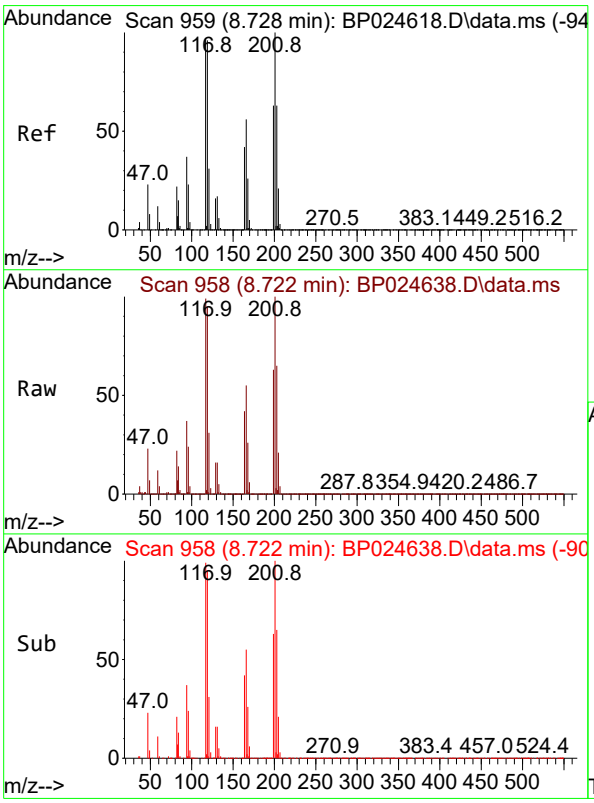
#17
2-Methylphenol
Concen: 44.241 ng
RT: 8.111 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:107 Resp: 404526

Ion	Ratio	Lower	Upper
107	100		
108	110.2	88.9	133.3
77	47.0	39.0	58.6
79	45.6	38.4	57.6

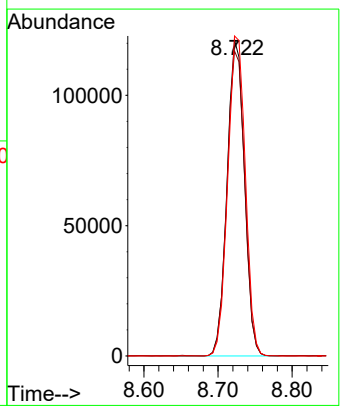


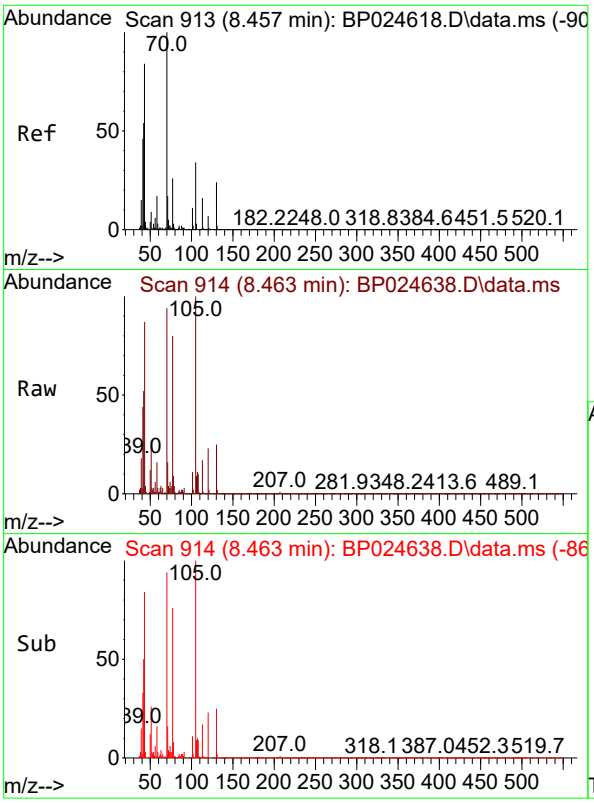


#18
Hexachloroethane
Concen: 40.599 ng
RT: 8.722 min Scan# 958
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:117 Resp: 197785

Ion	Ratio	Lower	Upper
117	100		
119	96.4	79.4	119.0
201	101.2	82.7	124.1



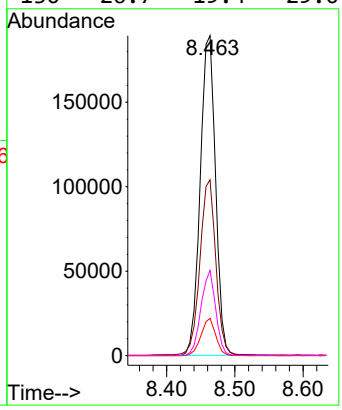


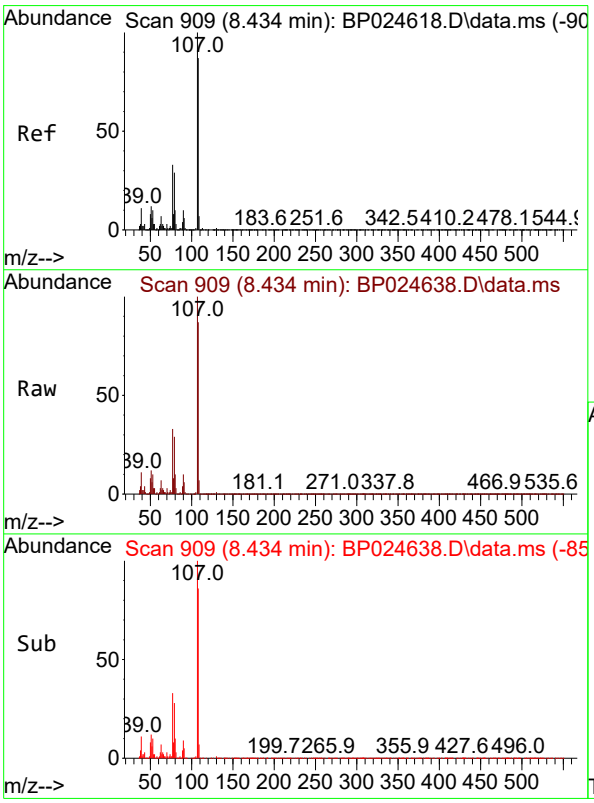
#19
n-Nitroso-di-n-propylamine
Concen: 34.675 ng
RT: 8.463 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion: 70 Resp: 296270

Ion	Ratio	Lower	Upper
70	100		
42	54.9	43.0	64.6
101	11.6	8.7	13.1
130	26.7	19.4	29.0

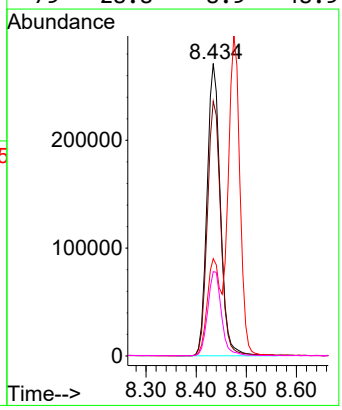


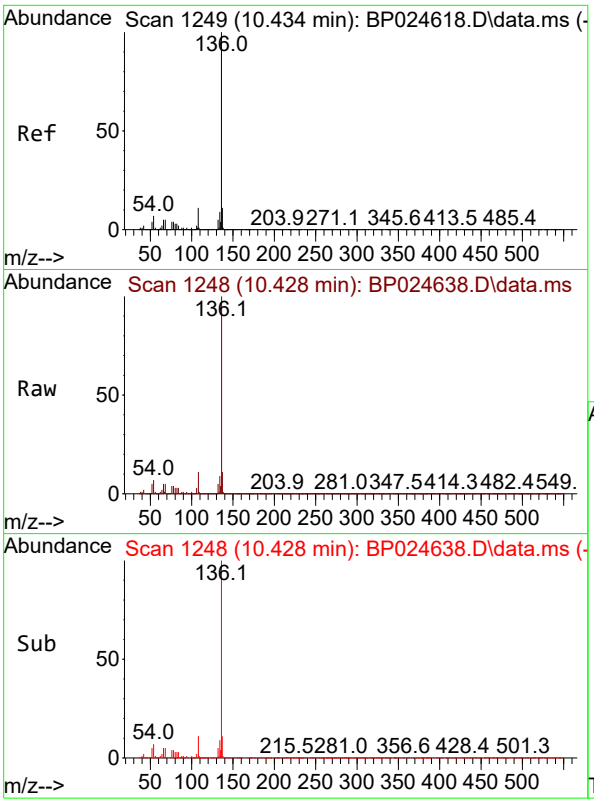


#20
3+4-Methylphenols
Concen: 40.109 ng
RT: 8.434 min Scan# 909
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:107 Resp: 498876

Ion	Ratio	Lower	Upper
107	100		
108	87.1	66.7	106.7
77	33.3	13.1	53.1
79	28.8	8.9	48.9



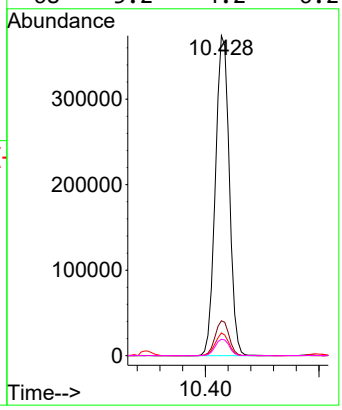


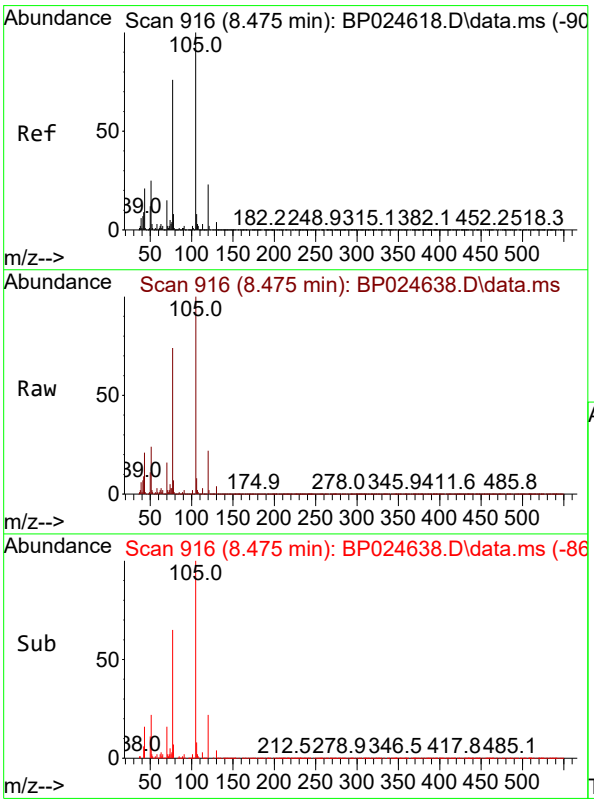
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:136 Resp: 634360

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	7.1	5.5	8.3
68	5.2	4.2	6.2

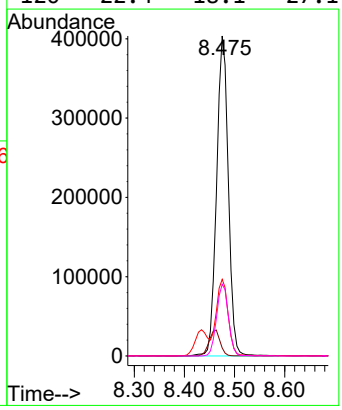


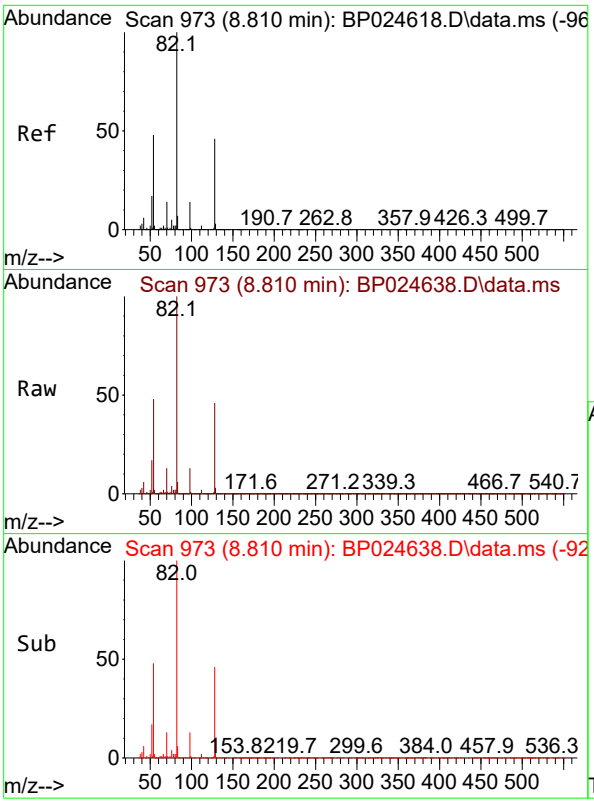


#22
Acetophenone
Concen: 41.327 ng
RT: 8.475 min Scan# 916
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:105 Resp: 654869

Ion	Ratio	Lower	Upper
105	100		
71	2.5	2.0	3.0
51	23.9	20.4	30.6
120	22.4	18.1	27.1



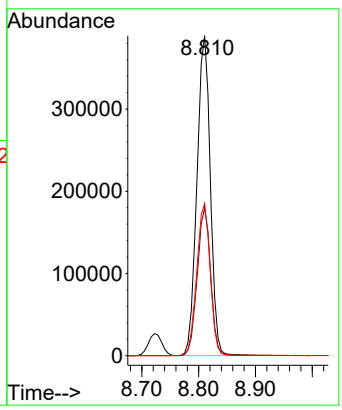


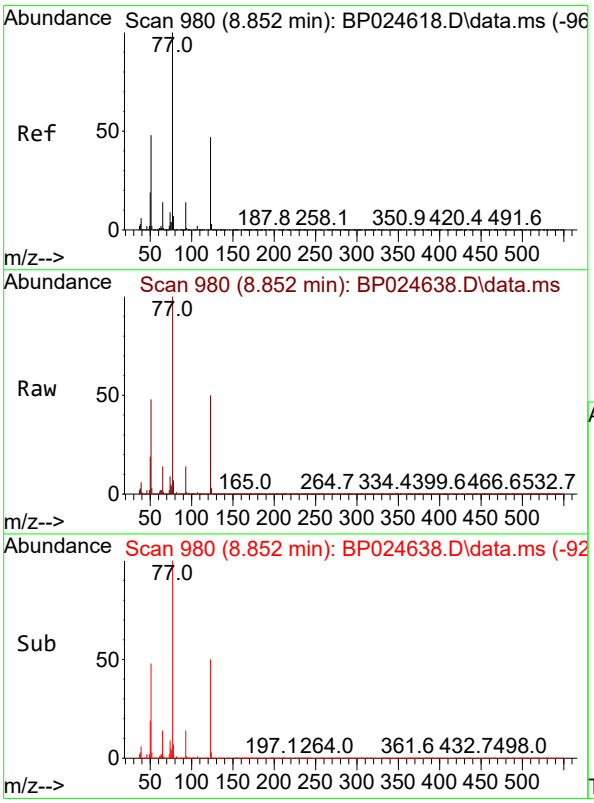
#23
Nitrobenzene-d5
Concen: 50.893 ng
RT: 8.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion: 82 Resp: 638968

Ion	Ratio	Lower	Upper
82	100		
128	46.2	37.0	55.4
54	47.6	38.7	58.1

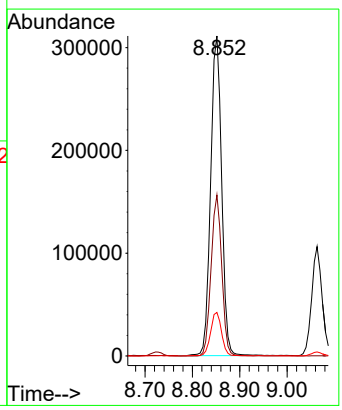


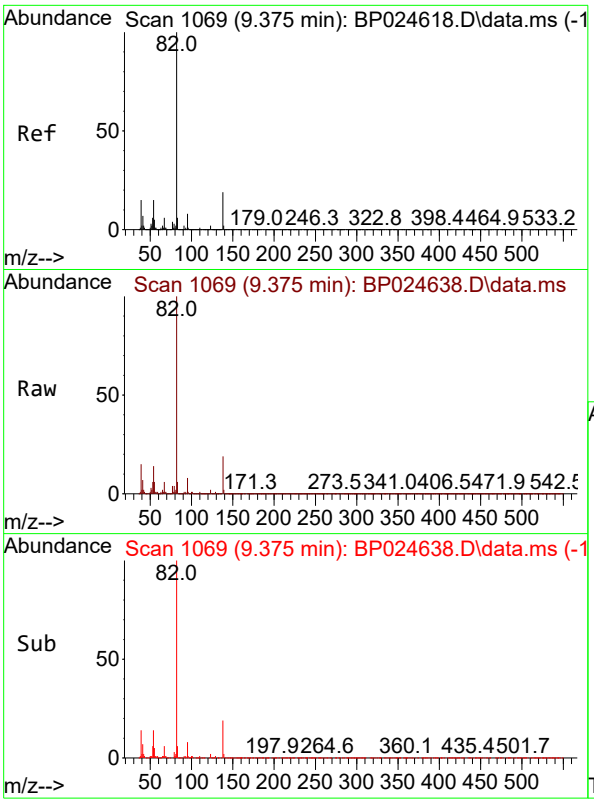


#24
Nitrobenzene
Concen: 45.394 ng
RT: 8.852 min Scan# 980
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion: 77 Resp: 501541

Ion	Ratio	Lower	Upper
77	100		
123	50.3	37.4	56.0
65	13.6	11.3	16.9



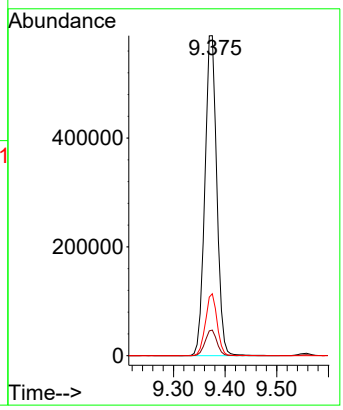


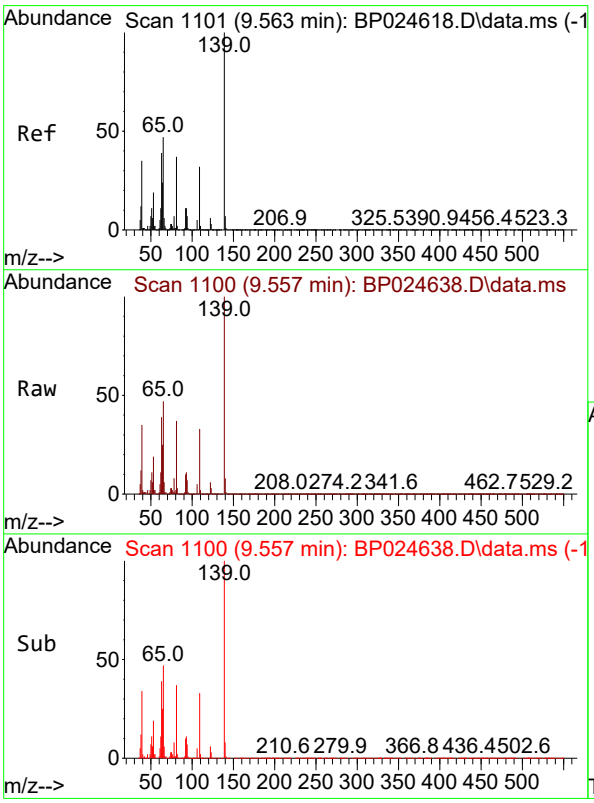
#25
Isophorone
Concen: 43.069 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion: 82 Resp: 937975

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.3	9.5
138	19.4	15.3	22.9

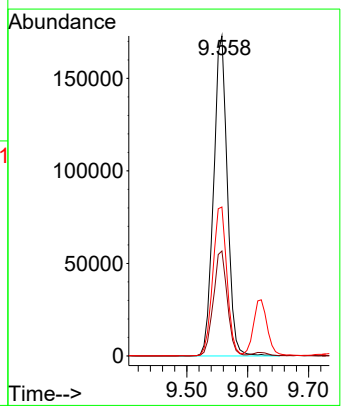


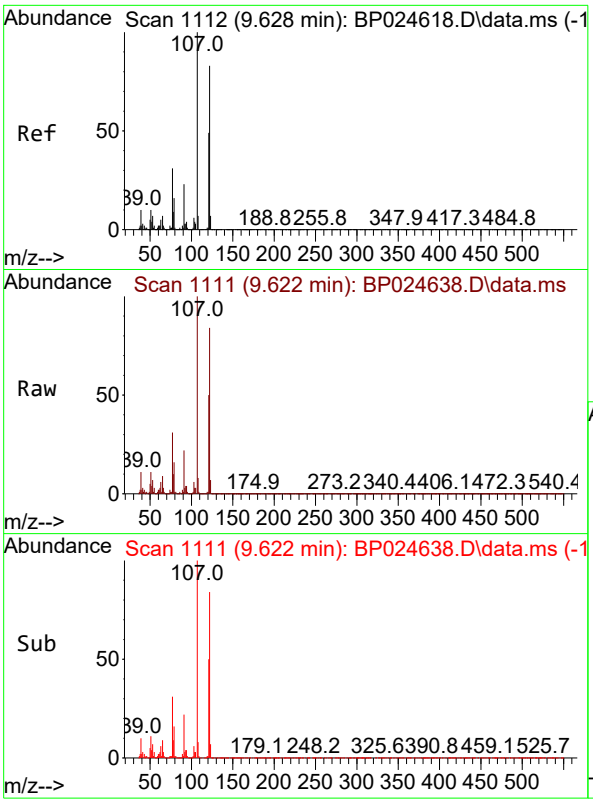


#26
2-Nitrophenol
Concen: 50.036 ng
RT: 9.557 min Scan# 1100
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:139 Resp: 270894

Ion	Ratio	Lower	Upper
139	100		
109	32.8	25.9	38.9
65	46.6	37.9	56.9



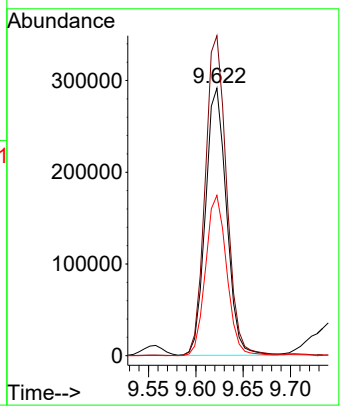


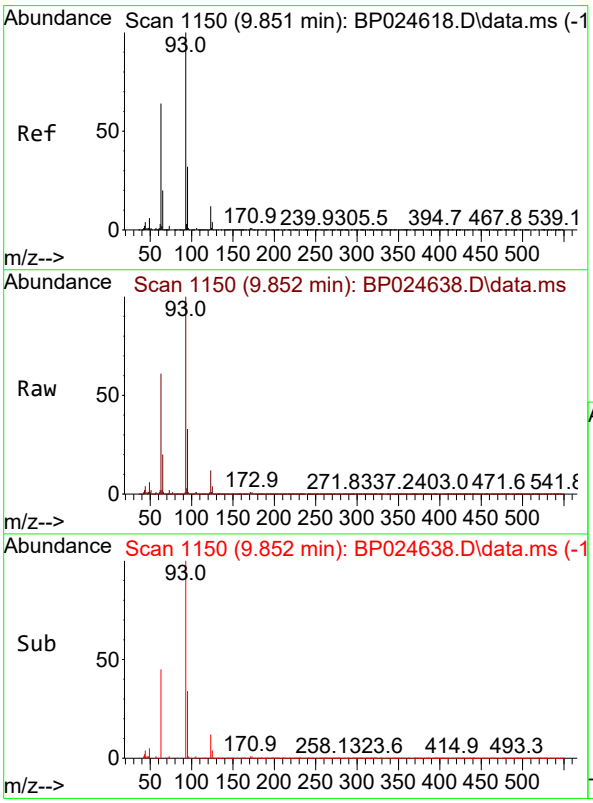
#27
2,4-Dimethylphenol
Concen: 47.245 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:122 Resp: 450968

Ion	Ratio	Lower	Upper
122	100		
107	119.6	96.2	144.2
121	59.9	47.6	71.4

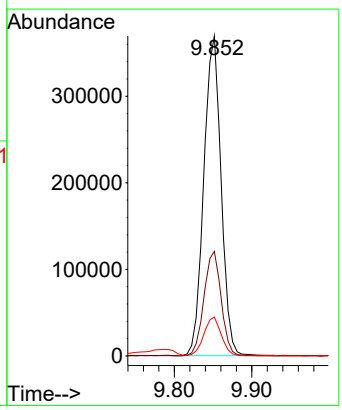


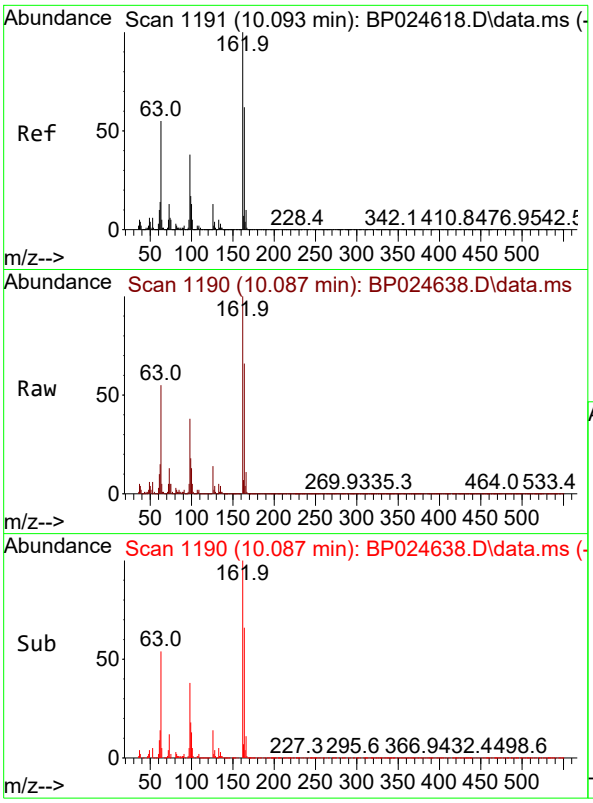


#28
bis(2-Chloroethoxy)methane
Concen: 43.950 ng
RT: 9.852 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion: 93 Resp: 571836

Ion	Ratio	Lower	Upper
93	100		
95	32.7	25.5	38.3
123	12.1	9.7	14.5



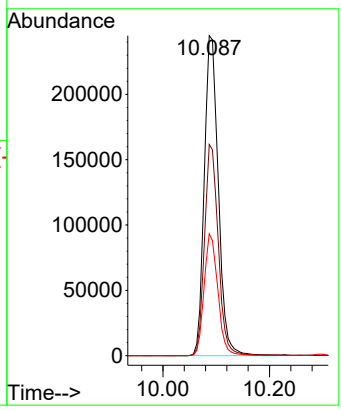


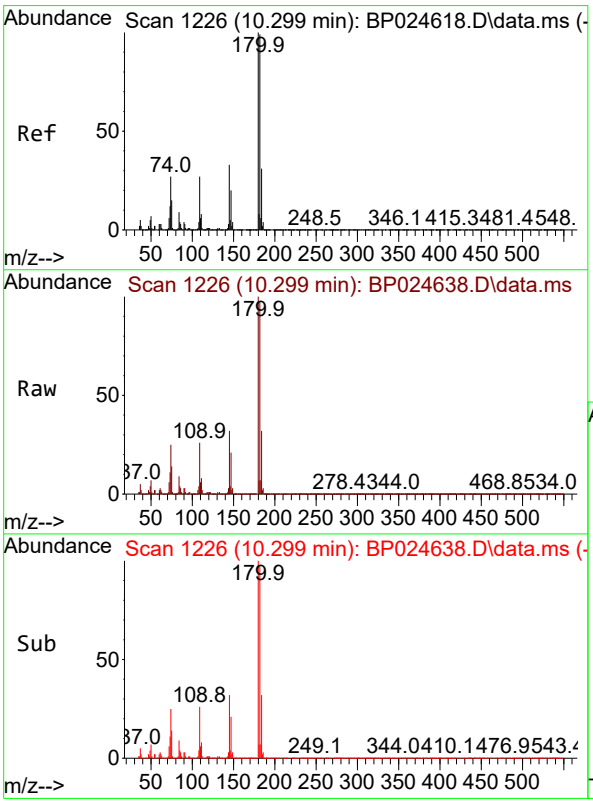
#29
2,4-Dichlorophenol
Concen: 48.465 ng
RT: 10.087 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:162 Resp: 448301

Ion	Ratio	Lower	Upper
162	100		
164	66.0	42.3	82.3
98	38.1	18.4	58.4

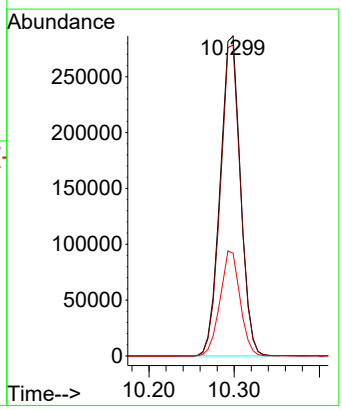


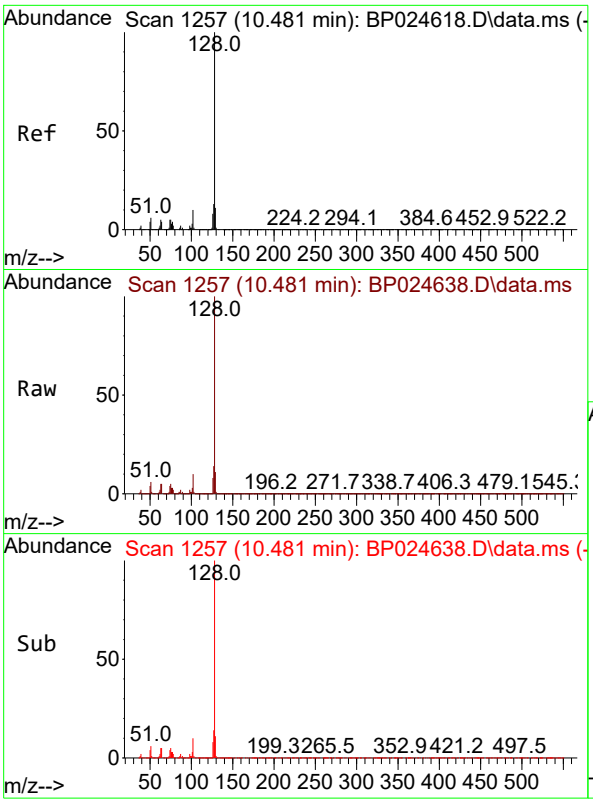


#30
1,2,4-Trichlorobenzene
Concen: 45.566 ng
RT: 10.299 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:180 Resp: 474967

Ion	Ratio	Lower	Upper
180	100		
182	97.1	79.0	118.4
145	32.1	26.6	39.8



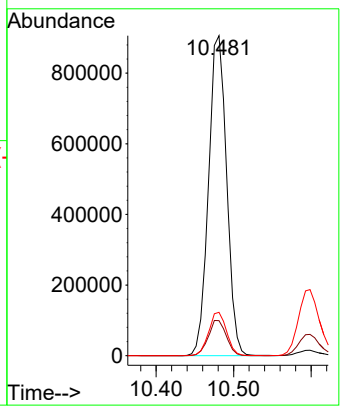


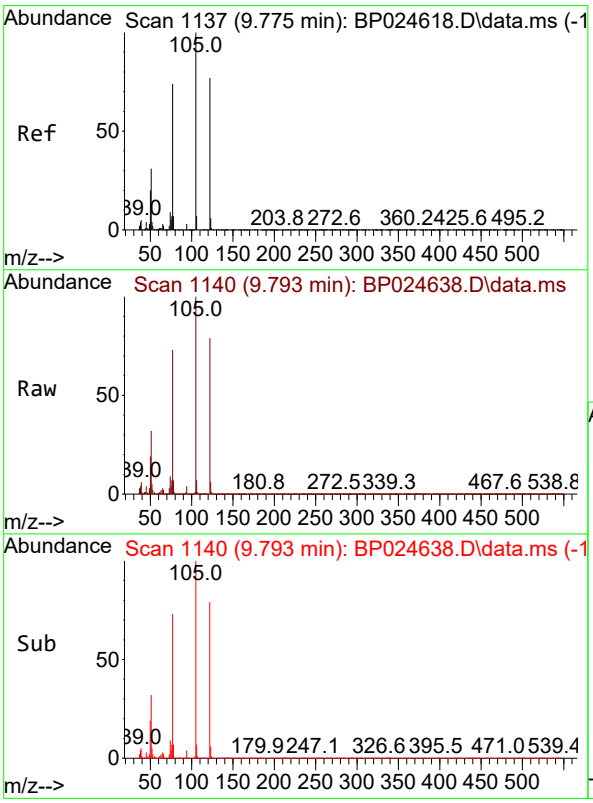
#31
Naphthalene
Concen: 44.704 ng
RT: 10.481 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:128 Resp: 1469571

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.6	10.7	16.1

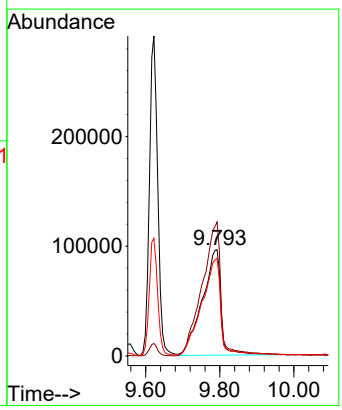


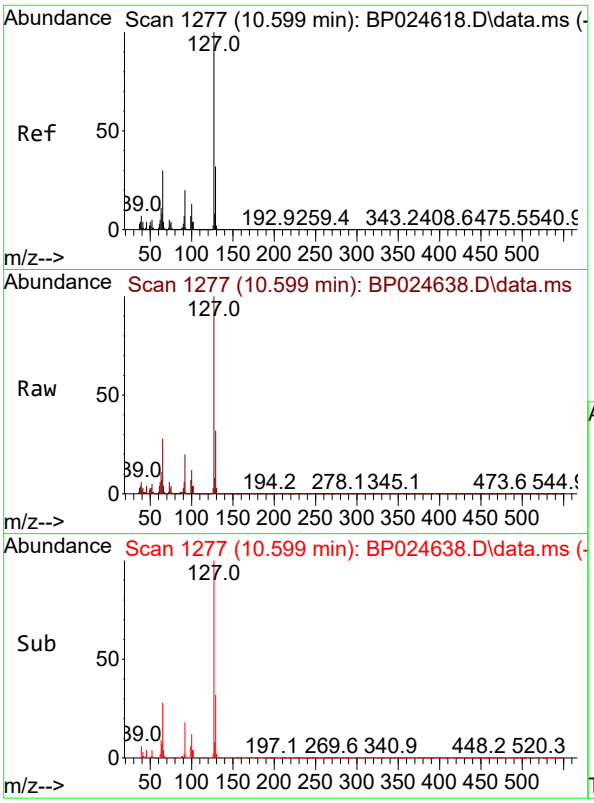


#32
Benzoic acid
Concen: 50.212 ng
RT: 9.793 min Scan# 1140
Delta R.T. 0.018 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:122 Resp: 336377

Ion	Ratio	Lower	Upper
122	100		
105	126.0	106.9	146.9
77	91.9	75.1	115.1



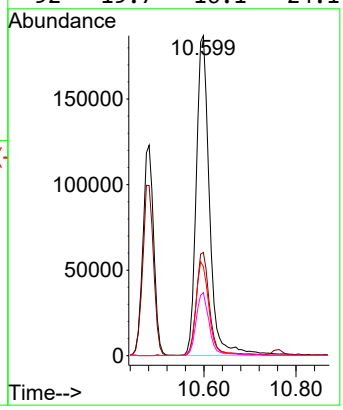


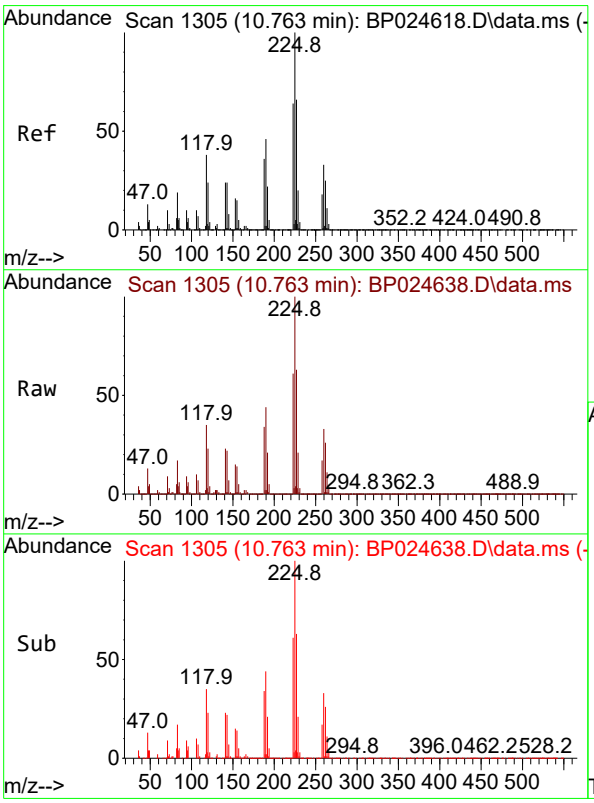
#33
4-Chloroaniline
Concen: 28.179 ng
RT: 10.599 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:127 Resp: 373803

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.8	38.6
65	27.9	23.9	35.9
92	19.7	16.1	24.1

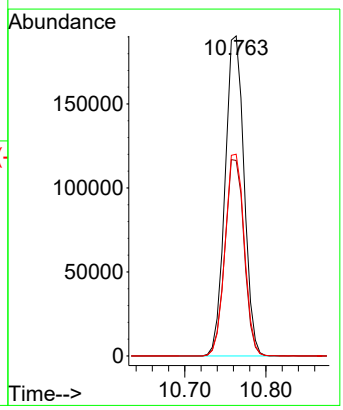


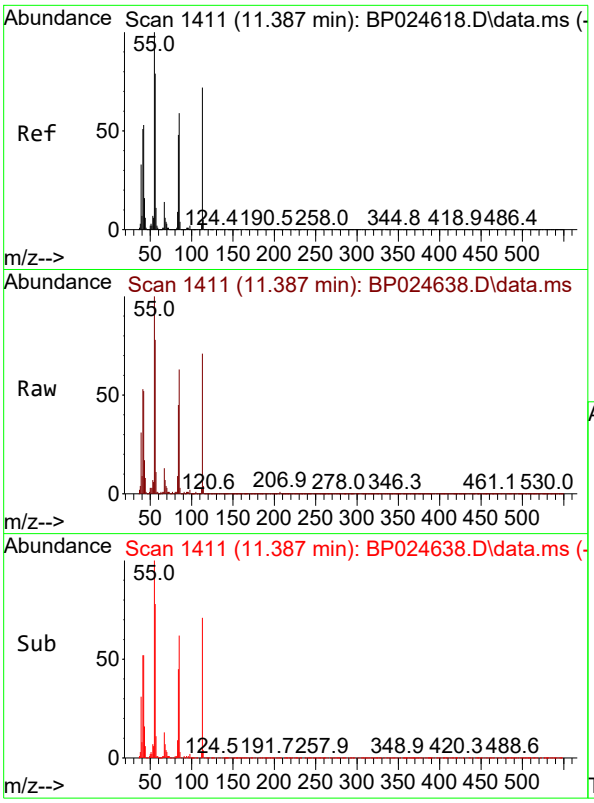


#34
Hexachlorobutadiene
Concen: 45.778 ng
RT: 10.763 min Scan# 1305
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:225 Resp: 309121

Ion	Ratio	Lower	Upper
225	100		
223	61.1	51.0	76.6
227	63.0	53.1	79.7



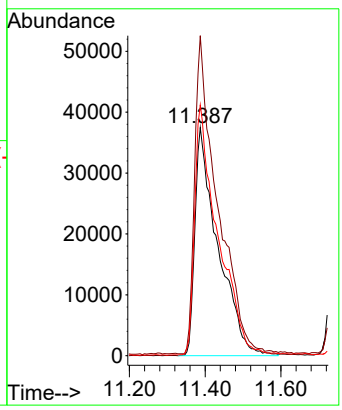


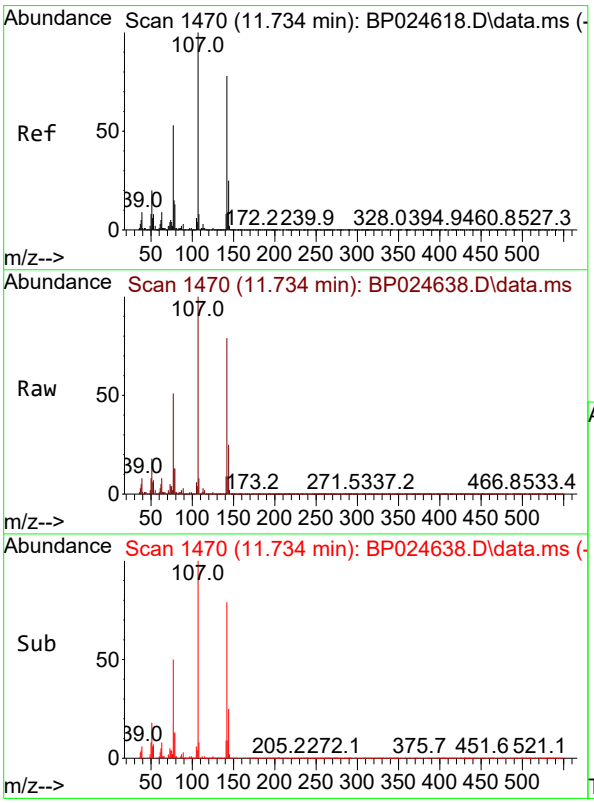
#35
Caprolactam
Concen: 47.096 ng
RT: 11.387 min Scan# 14
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:113 Resp: 157614

Ion	Ratio	Lower	Upper
113	100		
55	140.3	119.0	159.0
56	109.9	90.3	130.3

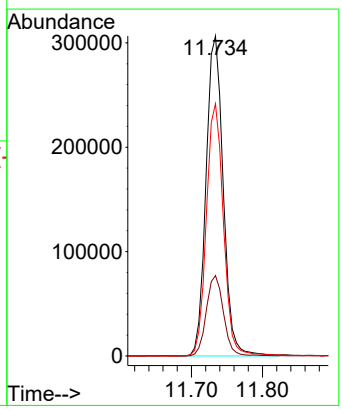


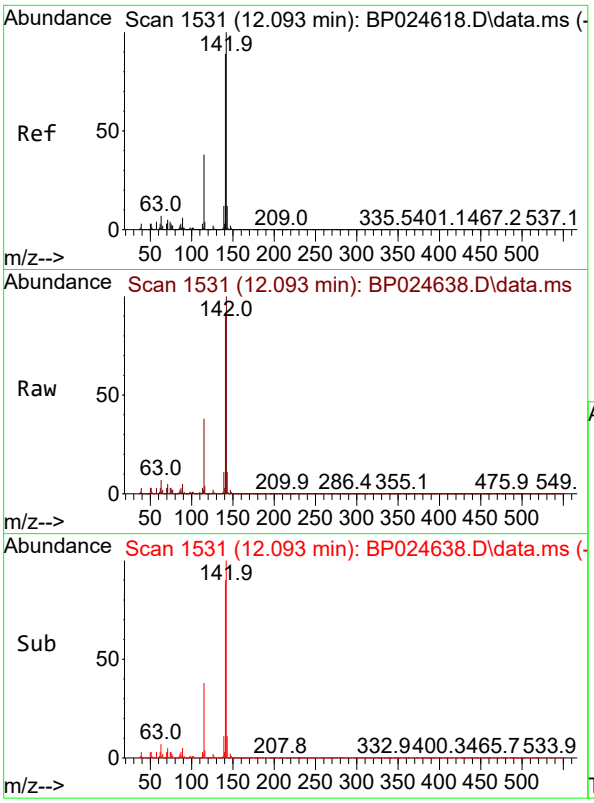


#36
4-Chloro-3-methylphenol
Concen: 45.762 ng
RT: 11.734 min Scan# 1470
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:107 Resp: 516210

Ion	Ratio	Lower	Upper
107	100		
144	25.1	20.1	30.1
142	78.8	62.1	93.1



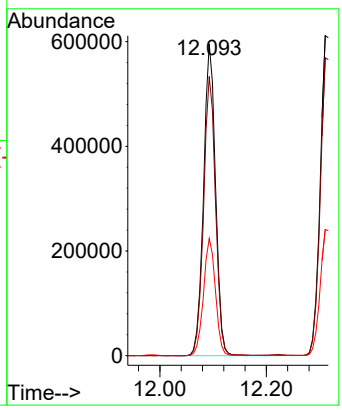


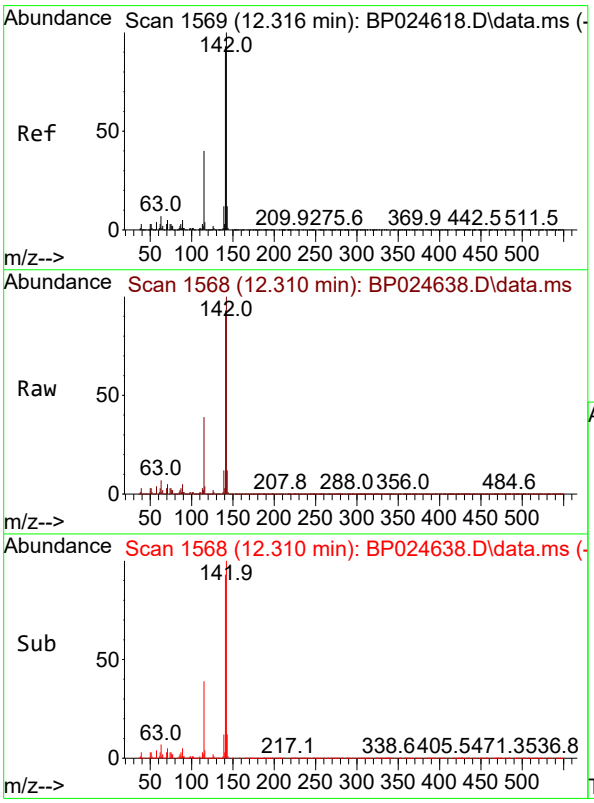
#37
2-Methylnaphthalene
Concen: 43.540 ng
RT: 12.093 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:142 Resp: 926779

Ion	Ratio	Lower	Upper
142	100		
141	89.6	71.2	106.8
115	37.6	30.6	46.0

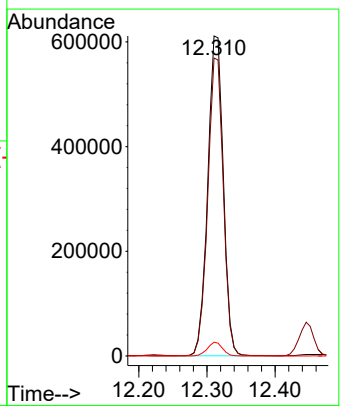


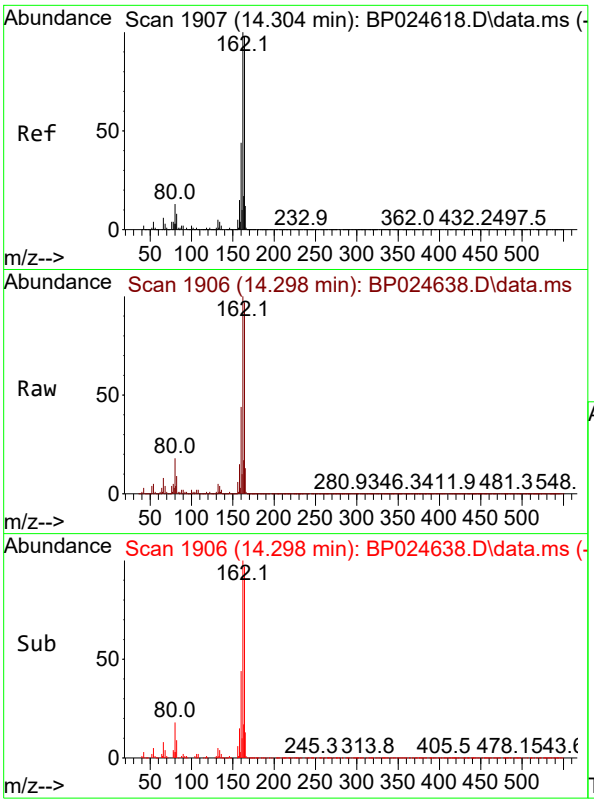


#38
1-Methylnaphthalene
Concen: 42.714 ng
RT: 12.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:142 Resp: 972826

Ion	Ratio	Lower	Upper
142	100		
141	93.1	74.7	112.1
116	4.3	3.4	5.2



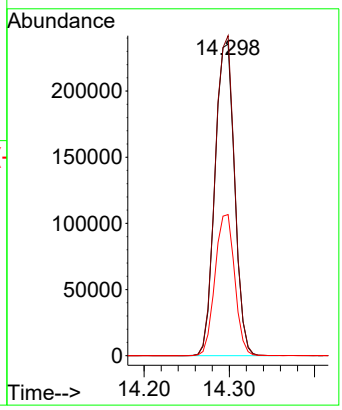


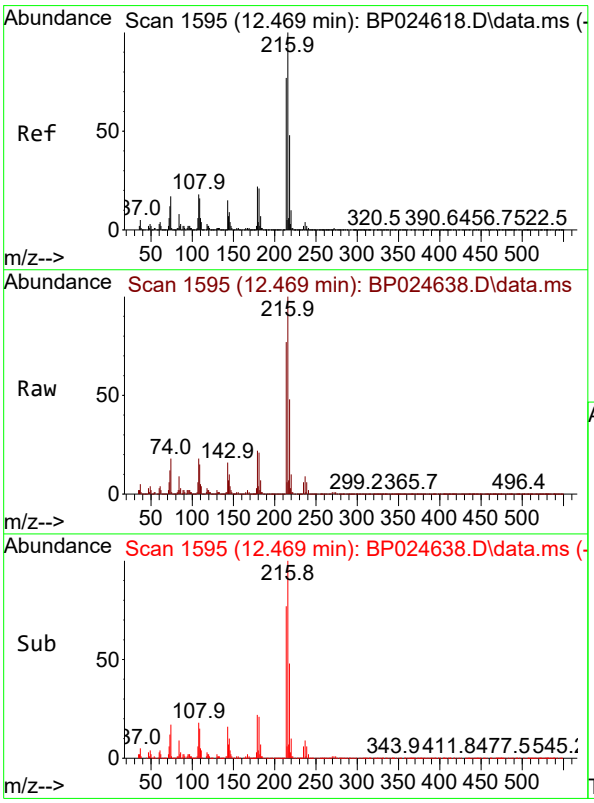
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:164 Resp: 378565

Ion	Ratio	Lower	Upper
164	100		
162	102.7	81.8	122.6
160	45.3	36.3	54.5

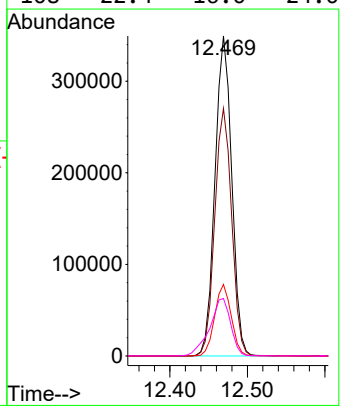


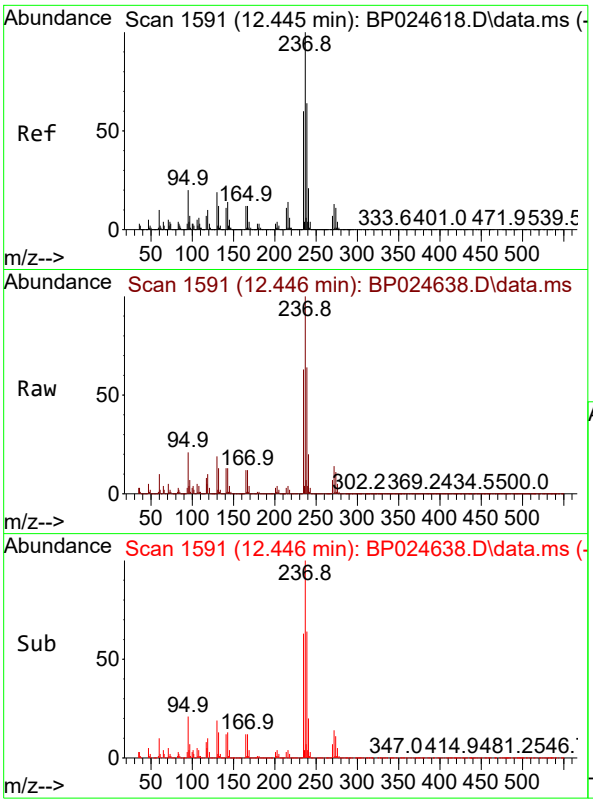


#40
1,2,4,5-Tetrachlorobenzene
Concen: 47.751 ng
RT: 12.469 min Scan# 1595
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:216 Resp: 524927

Ion	Ratio	Lower	Upper
216	100		
214	77.9	62.3	93.5
179	22.1	17.7	26.5
108	22.4	16.0	24.0



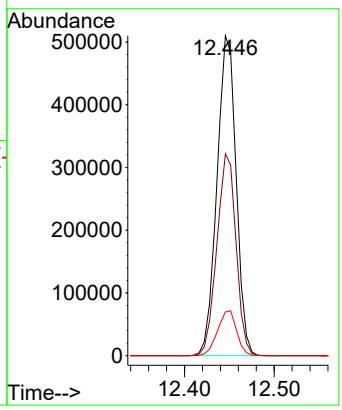


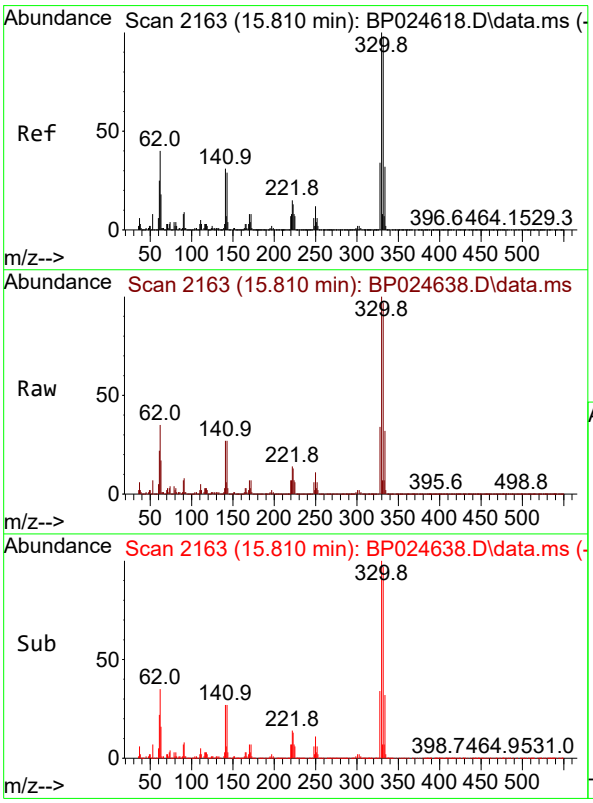
#41
Hexachlorocyclopentadiene
Concen: 113.445 ng
RT: 12.446 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:237 Resp: 756205

Ion	Ratio	Lower	Upper
237	100		
235	63.1	39.9	79.9
272	13.7	0.0	33.2

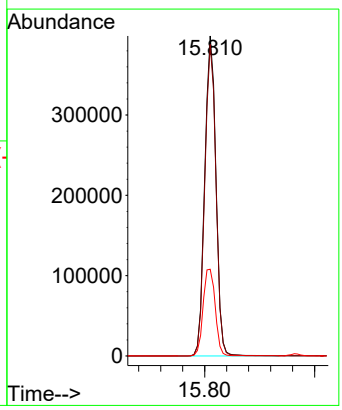


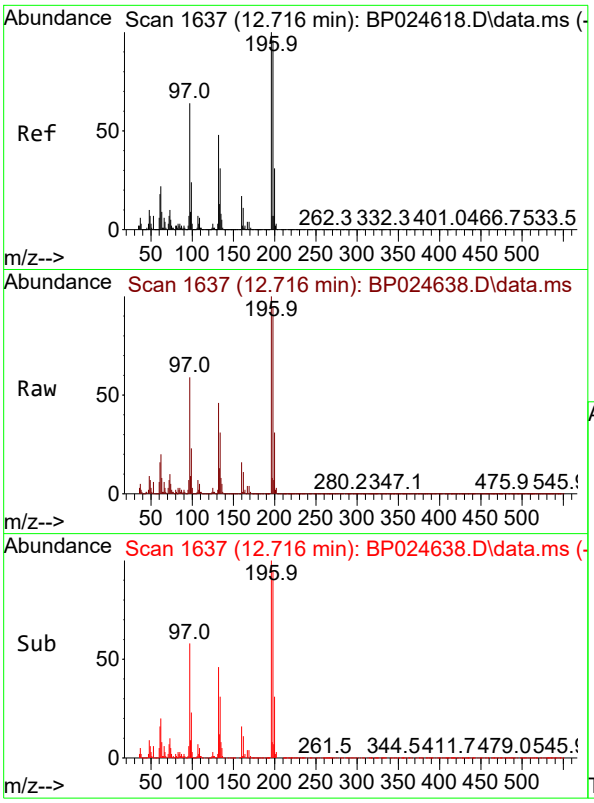


#42
2,4,6-Tribromophenol
Concen: 87.674 ng
RT: 15.810 min Scan# 2163
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:330 Resp: 562674

Ion	Ratio	Lower	Upper
330	100		
332	96.8	78.2	117.4
141	29.3	24.3	36.5



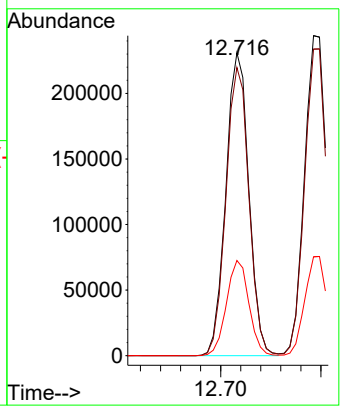


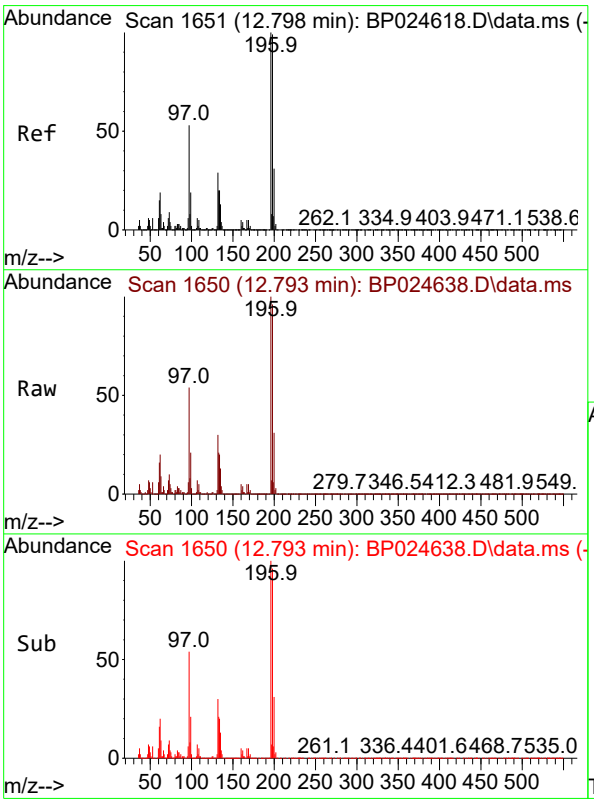
#43
2,4,6-Trichlorophenol
Concen: 51.731 ng
RT: 12.716 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:196 Resp: 368341

Ion	Ratio	Lower	Upper
196	100		
198	95.1	76.9	115.3
200	31.4	25.2	37.8

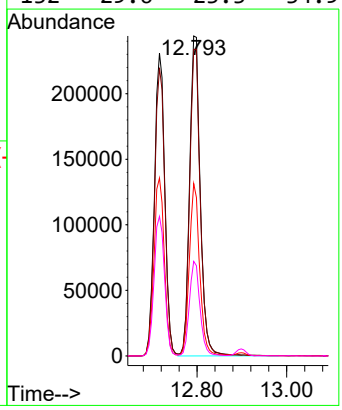


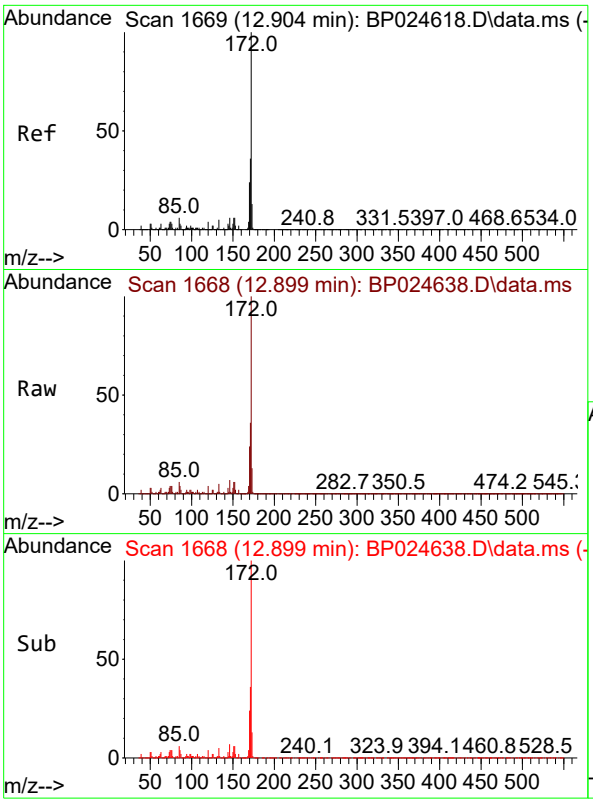


#44
2,4,5-Trichlorophenol
Concen: 50.893 ng
RT: 12.793 min Scan# 1650
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:196 Resp: 403367

Ion	Ratio	Lower	Upper
196	100		
198	95.8	79.2	118.8
97	53.9	42.3	63.5
132	29.6	23.3	34.9



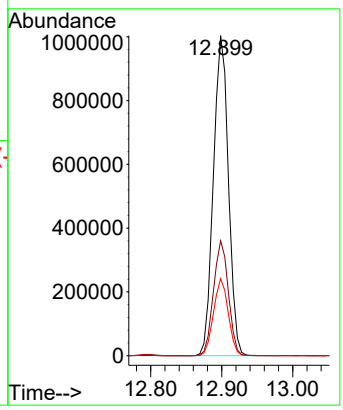


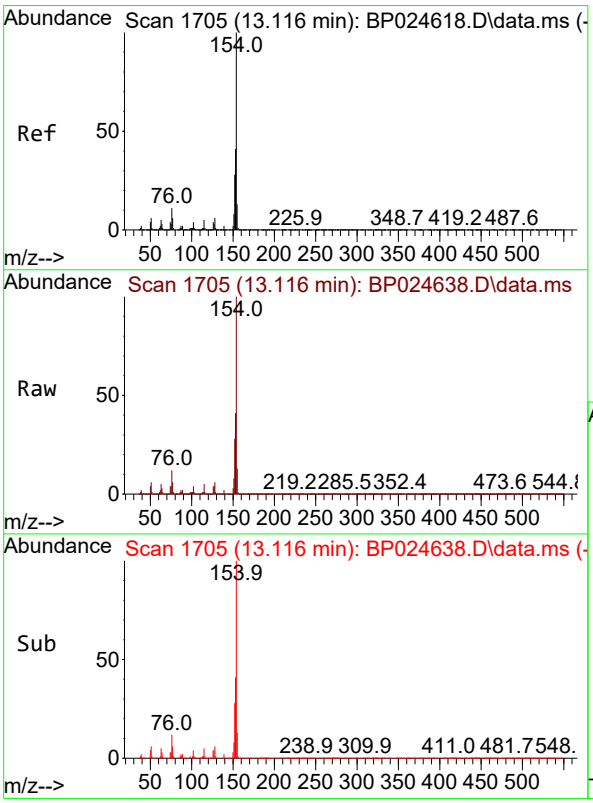
#45
2-Fluorobiphenyl
Concen: 50.874 ng
RT: 12.899 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:172 Resp: 1470035

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.8	43.2
170	24.0	18.8	28.2

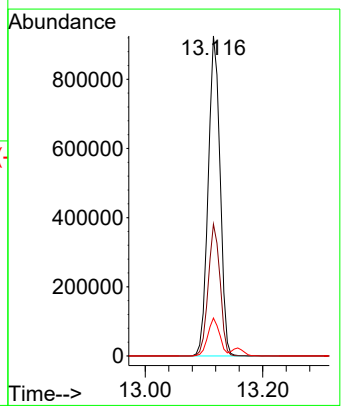


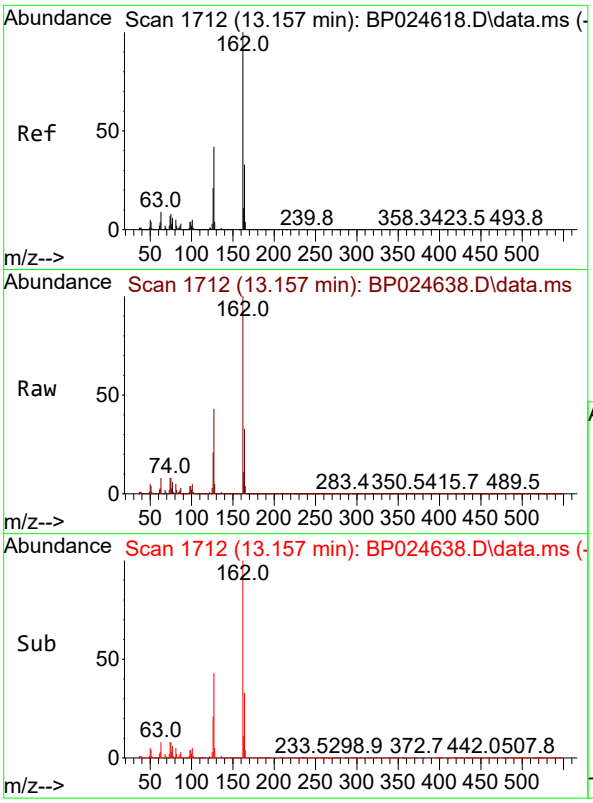


#46
1,1'-Biphenyl
Concen: 46.530 ng
RT: 13.116 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:154 Resp: 1301925

Ion	Ratio	Lower	Upper
154	100		
153	41.2	21.0	61.0
76	11.8	0.0	31.5



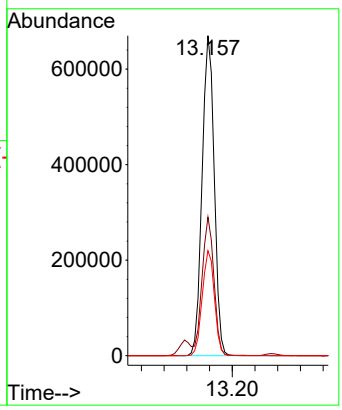


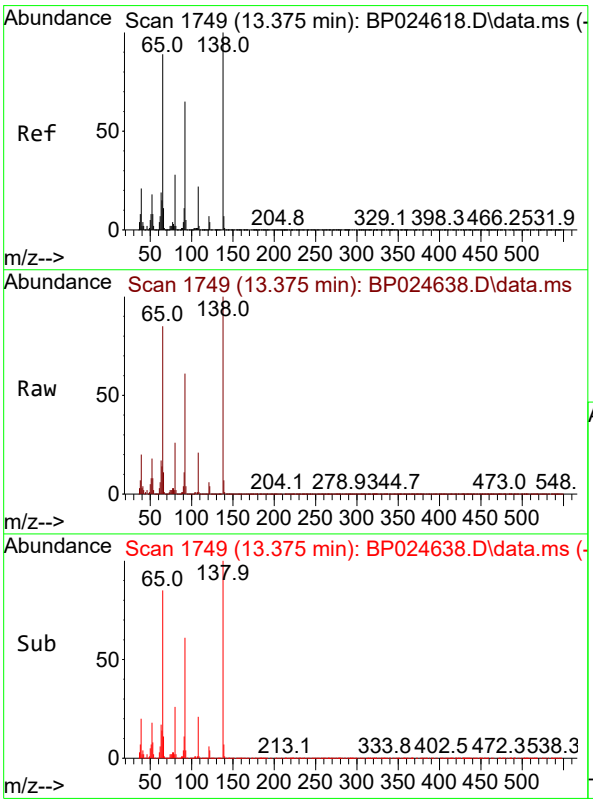
#47
2-Chloronaphthalene
Concen: 46.545 ng
RT: 13.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:162 Resp: 993000

Ion	Ratio	Lower	Upper
162	100		
127	43.3	33.8	50.6
164	32.8	26.0	39.0

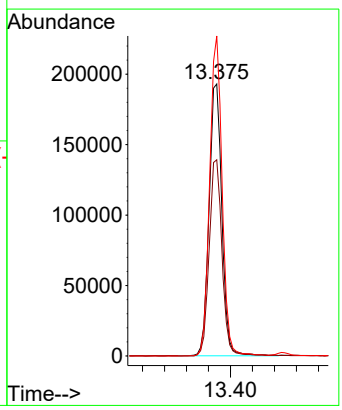


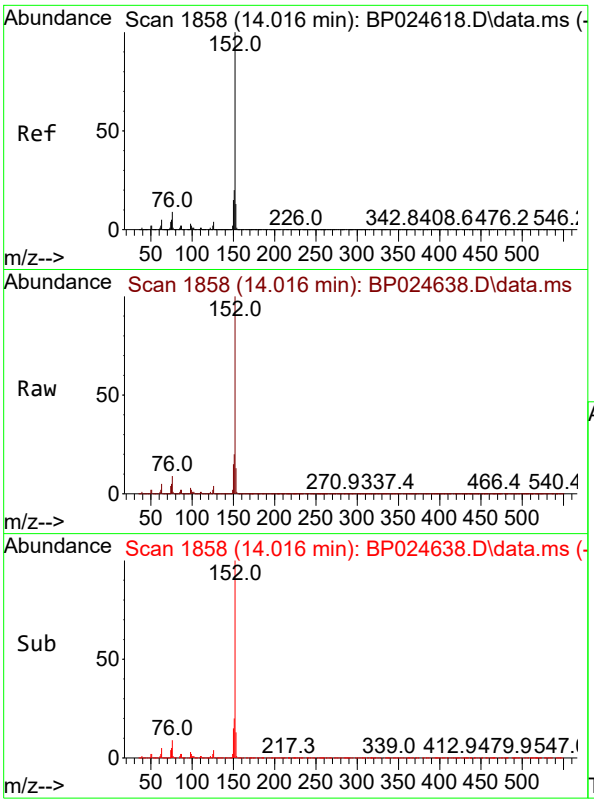


#48
2-Nitroaniline
Concen: 49.362 ng
RT: 13.375 min Scan# 1749
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion: 65 Resp: 311778

Ion	Ratio	Lower	Upper
65	100		
92	72.1	58.7	88.1
138	117.7	90.2	135.2



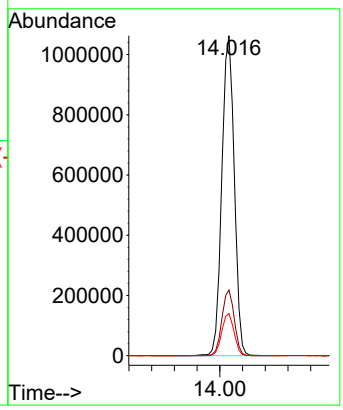


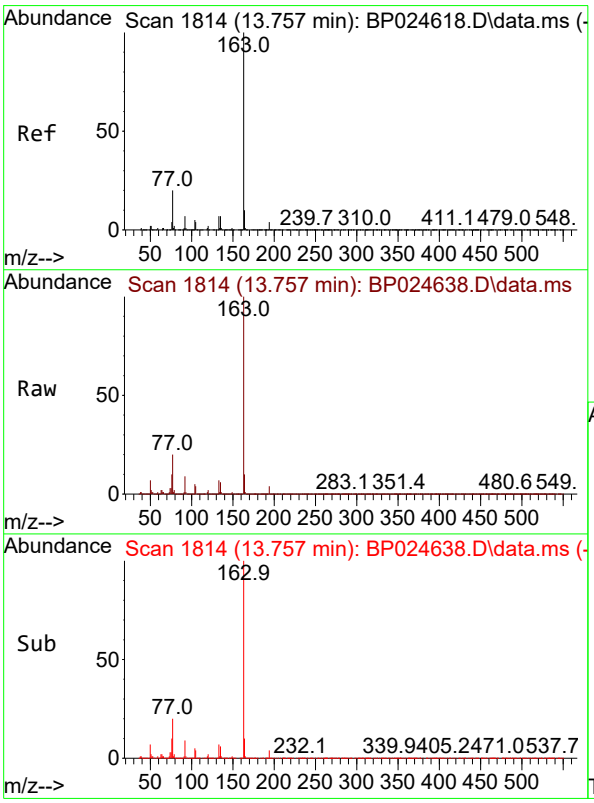
#49
Acenaphthylene
Concen: 45.458 ng
RT: 14.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:152 Resp: 1622957

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4
153	13.1	10.2	15.4

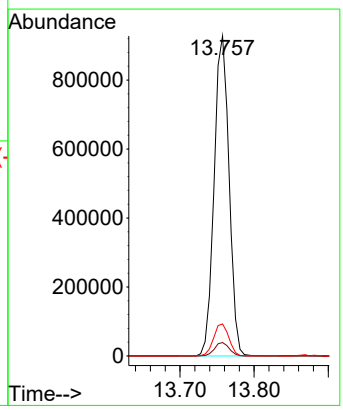


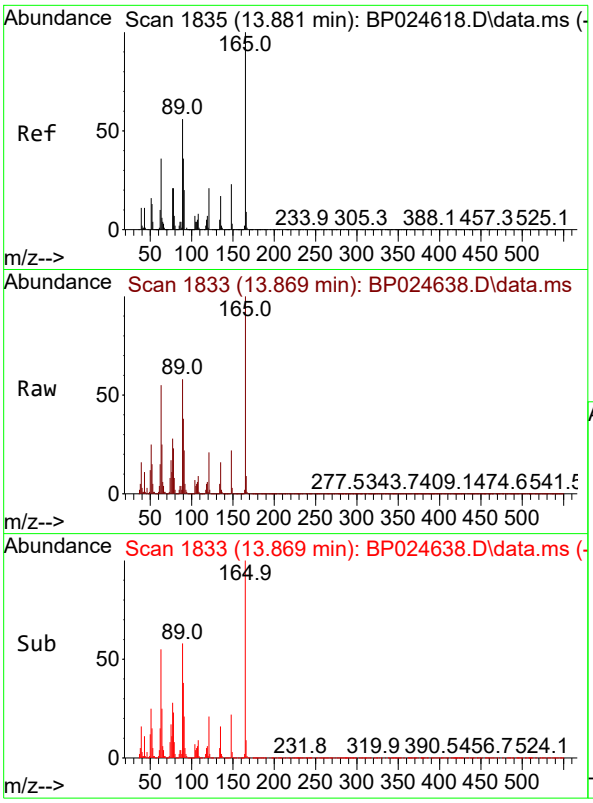


#50
Dimethylphthalate
Concen: 44.935 ng
RT: 13.757 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:163 Resp: 1296579

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.0	8.1	12.1



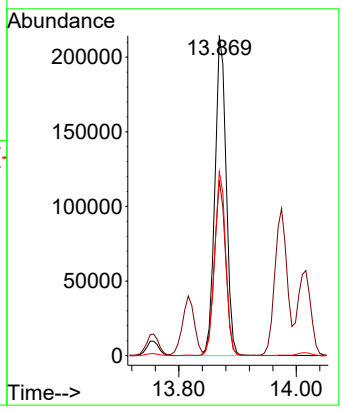


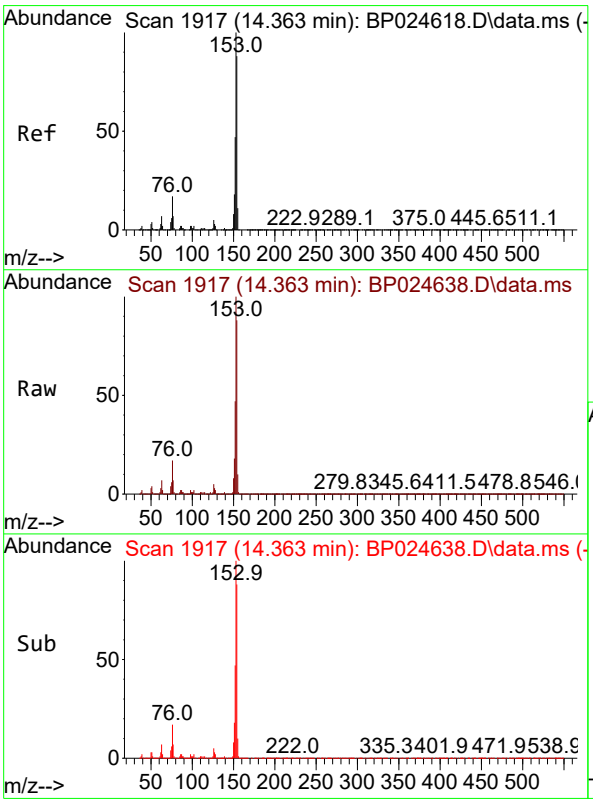
#51
2,6-Dinitrotoluene
Concen: 46.631 ng
RT: 13.869 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:165 Resp: 284162

Ion	Ratio	Lower	Upper
165	100		
63	54.8	42.4	63.6
89	57.5	44.8	67.2

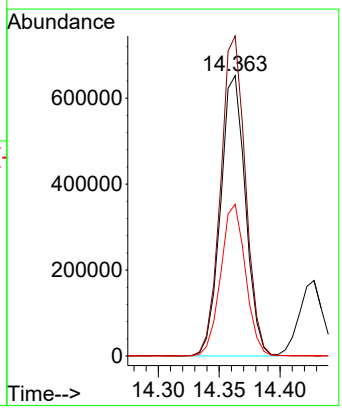


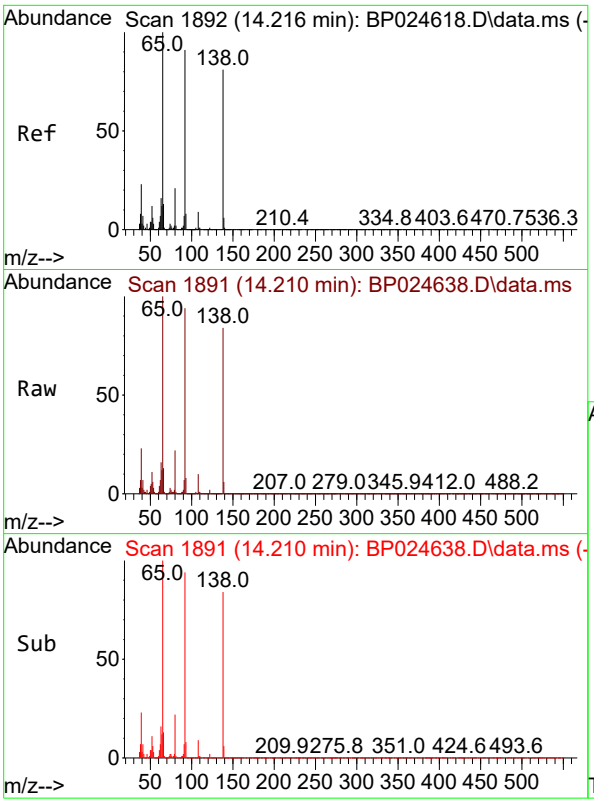


#52
Acenaphthene
Concen: 45.296 ng
RT: 14.363 min Scan# 1917
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:154 Resp: 929691

Ion	Ratio	Lower	Upper
154	100		
153	114.2	91.0	136.4
152	54.1	42.9	64.3



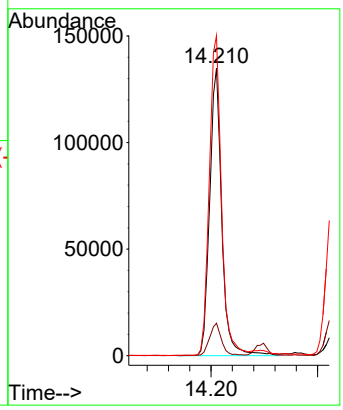


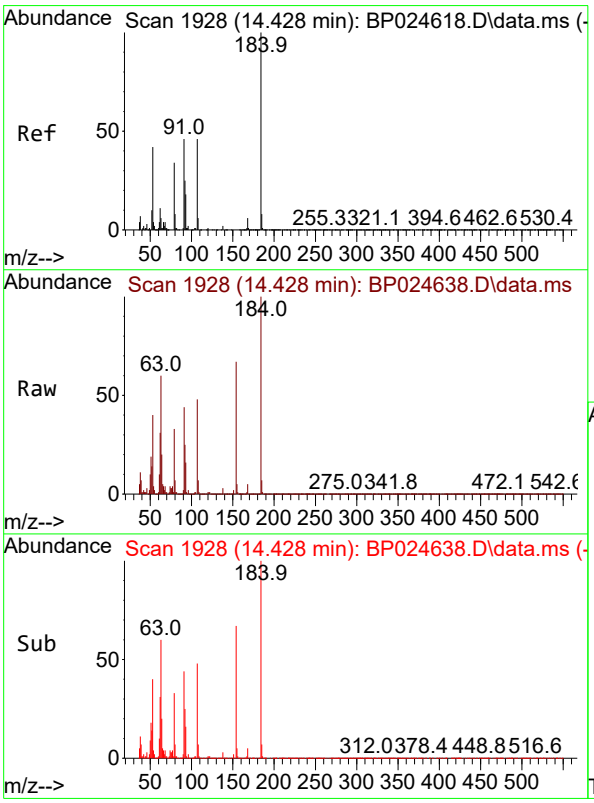
#53
3-Nitroaniline
Concen: 34.141 ng
RT: 14.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:138 Resp: 212436

Ion	Ratio	Lower	Upper
138	100		
108	11.3	9.0	13.4
92	111.3	90.1	135.1

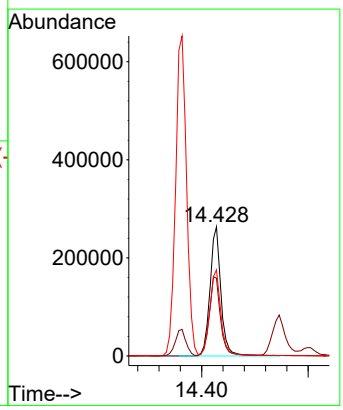


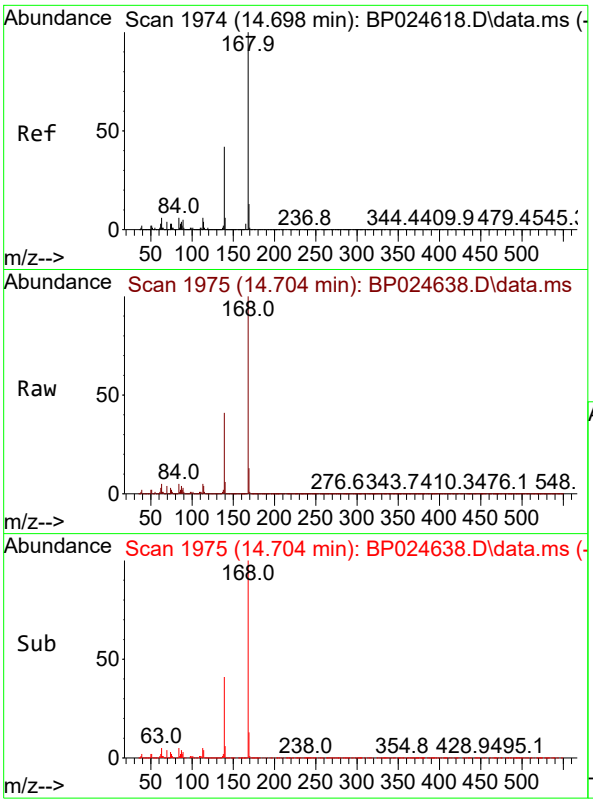


#54
2,4-Dinitrophenol
Concen: 96.168 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:184 Resp: 374950

Ion	Ratio	Lower	Upper
184	100		
63	60.2	51.3	76.9
154	66.7	53.5	80.3



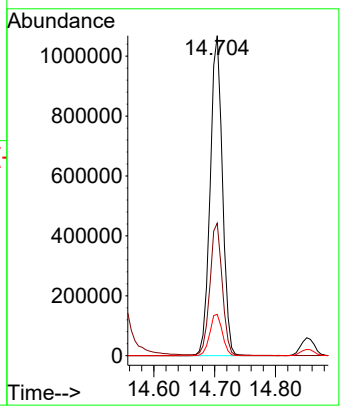


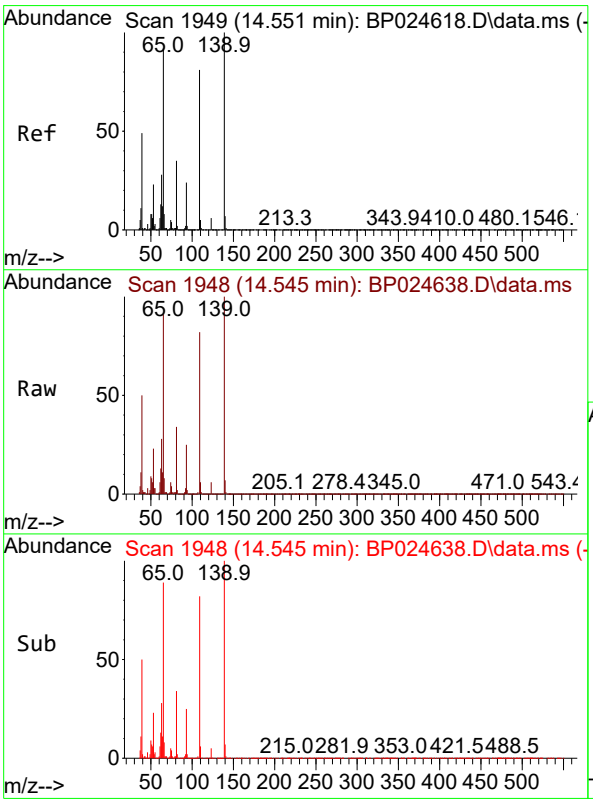
#55
Dibenzofuran
Concen: 45.559 ng
RT: 14.704 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:168 Resp: 1491506

Ion	Ratio	Lower	Upper
168	100		
139	41.4	34.2	51.4
169	12.9	10.8	16.2

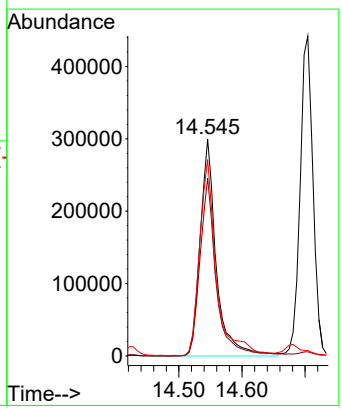


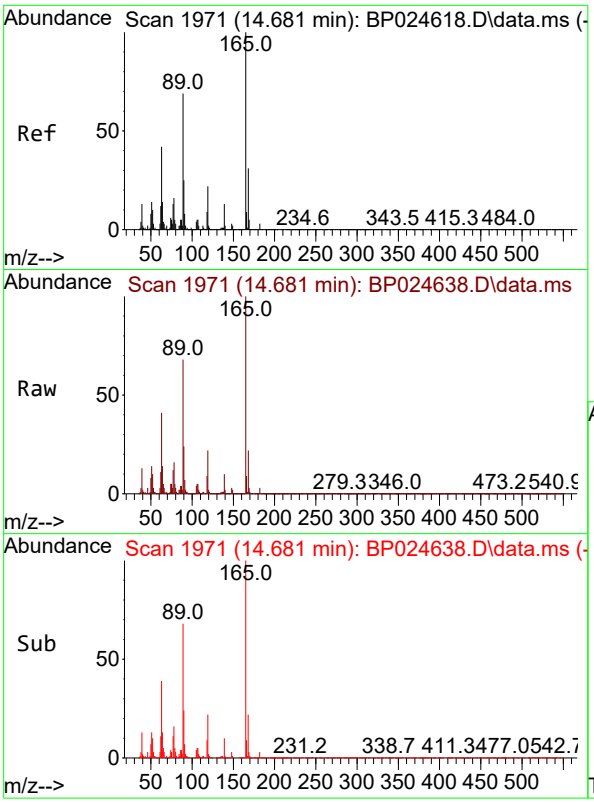


#56
4-Nitrophenol
Concen: 97.134 ng
RT: 14.545 min Scan# 1948
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:139 Resp: 528415

Ion	Ratio	Lower	Upper
139	100		
109	82.0	61.4	101.4
65	90.6	72.2	112.2



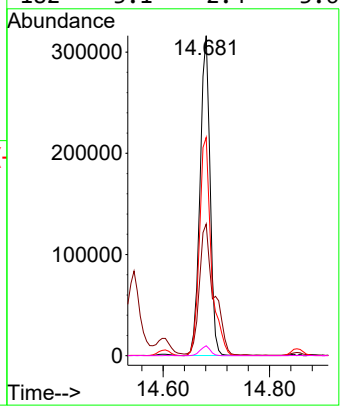


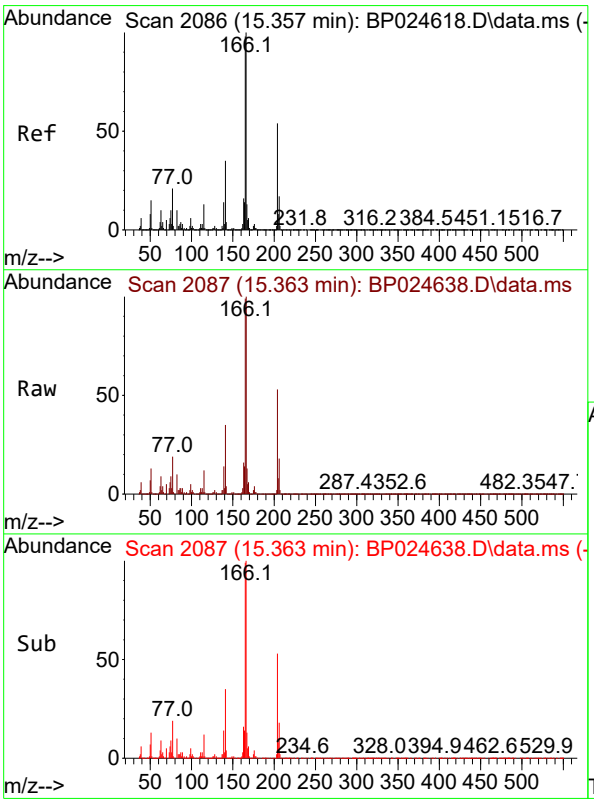
#57
2,4-Dinitrotoluene
Concen: 47.851 ng
RT: 14.681 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:165 Resp: 411100

Ion	Ratio	Lower	Upper
165	100		
63	41.2	33.8	50.6
89	68.2	55.6	83.4
182	3.1	2.4	3.6

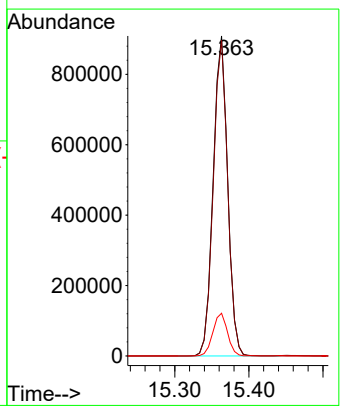


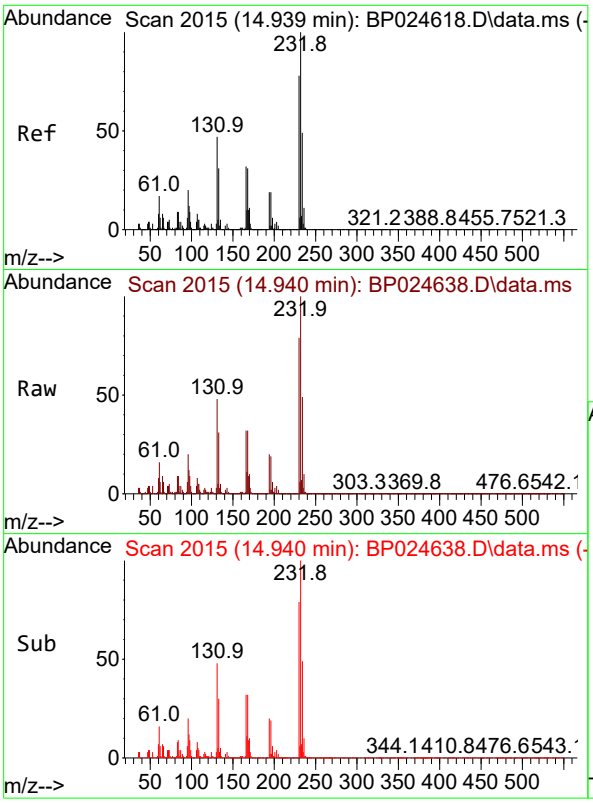


#58
Fluorene
Concen: 46.080 ng
RT: 15.363 min Scan# 2087
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:166 Resp: 1230074

Ion	Ratio	Lower	Upper
166	100		
165	98.7	78.5	117.7
167	13.3	10.7	16.1



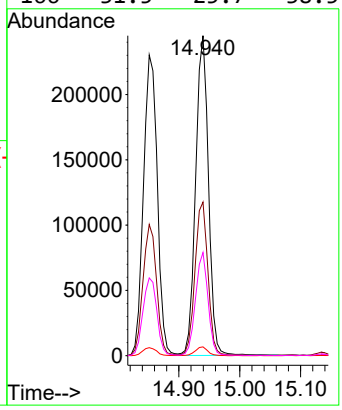


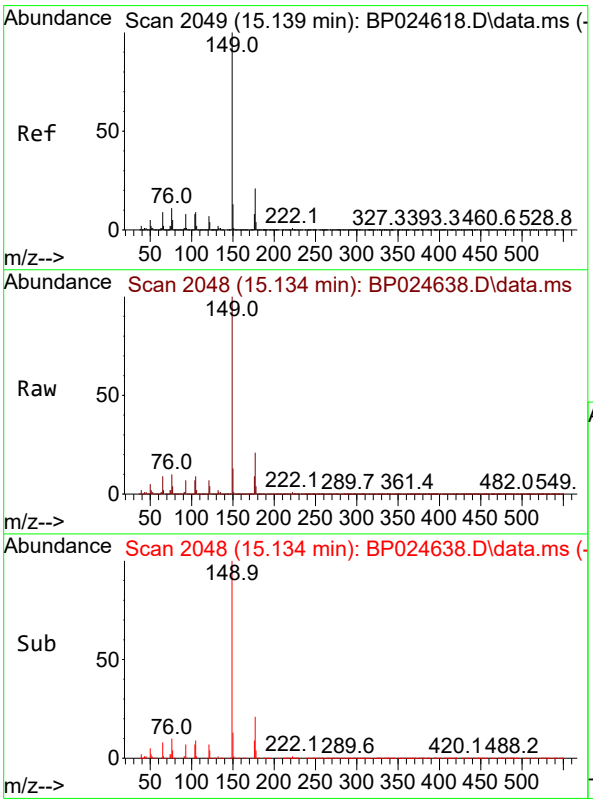
#59
2,3,4,6-Tetrachlorophenol
Concen: 48.714 ng
RT: 14.940 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:232 Resp: 358164

Ion	Ratio	Lower	Upper
232	100		
131	48.3	39.5	59.3
130	2.7	2.2	3.4
166	31.5	25.7	38.5

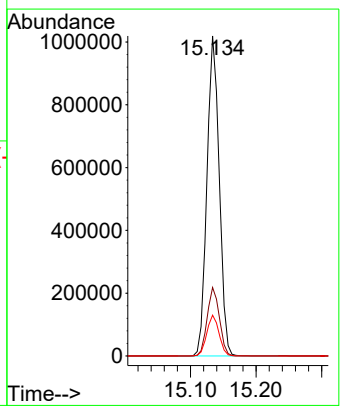


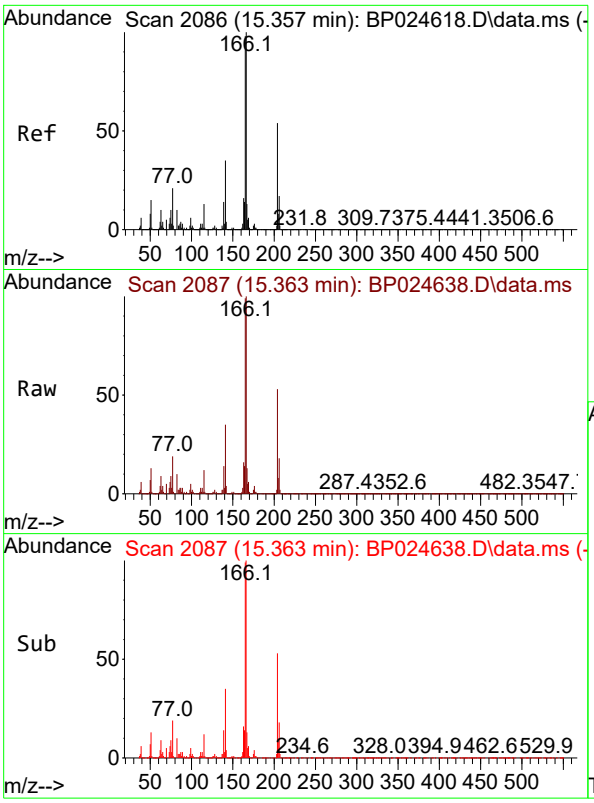


#60
Diethylphthalate
Concen: 45.598 ng
RT: 15.134 min Scan# 2048
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:149 Resp: 1329786

Ion	Ratio	Lower	Upper
149	100		
177	21.4	16.7	25.1
150	12.8	10.2	15.2



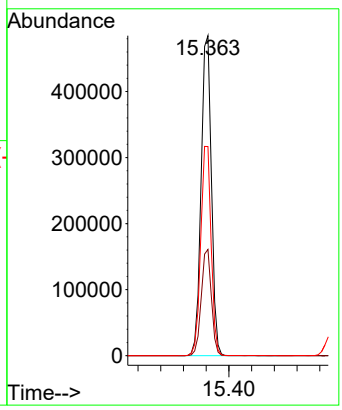


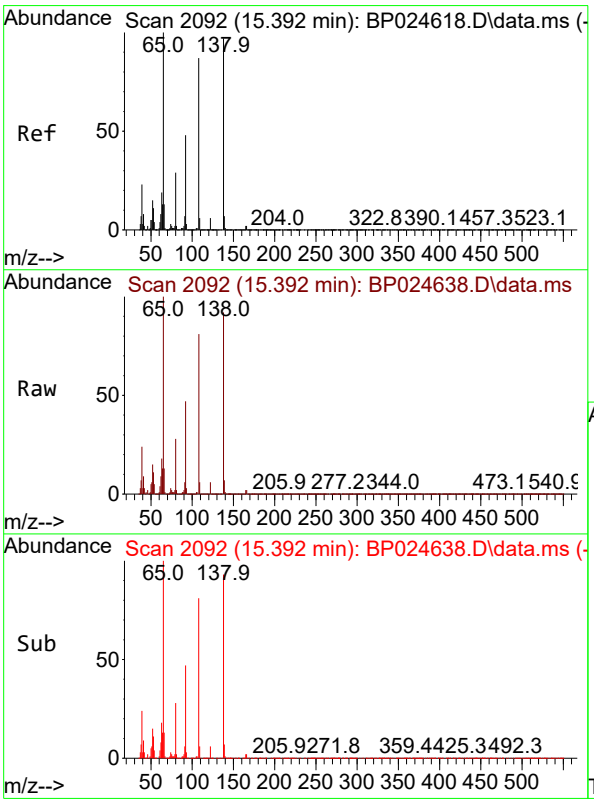
#61
4-Chlorophenyl-phenylether
Concen: 45.689 ng
RT: 15.363 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:204 Resp: 608237

Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.0	39.0
141	65.3	52.9	79.3

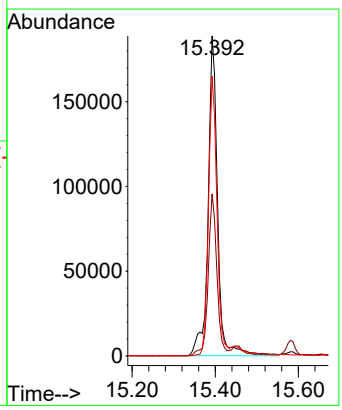


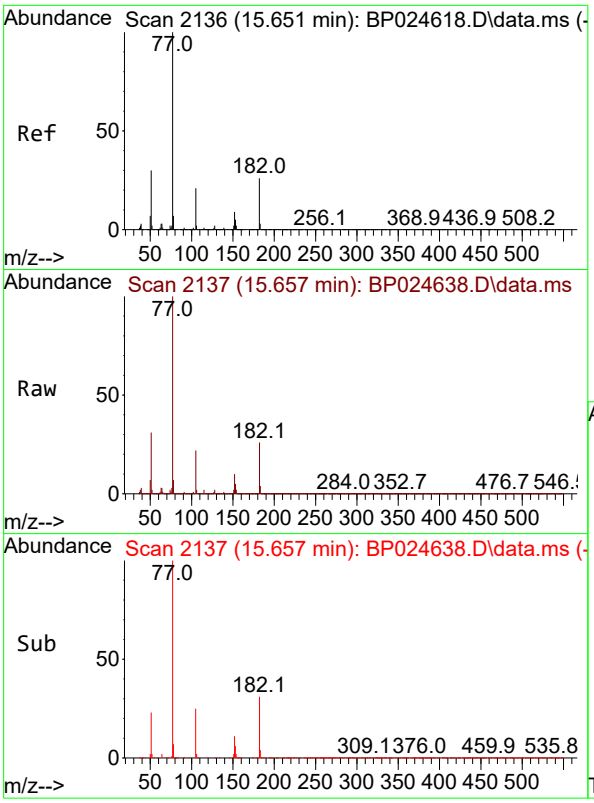


#62
4-Nitroaniline
Concen: 50.169 ng
RT: 15.392 min Scan# 2092
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:138 Resp: 301420

Ion	Ratio	Lower	Upper
138	100		
92	50.7	29.2	69.2
108	87.4	69.0	109.0



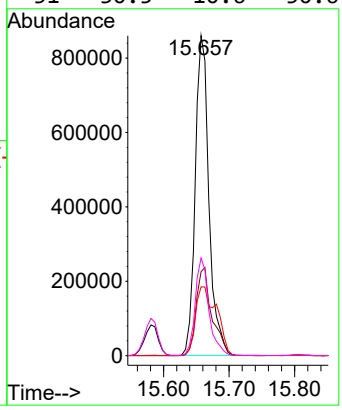


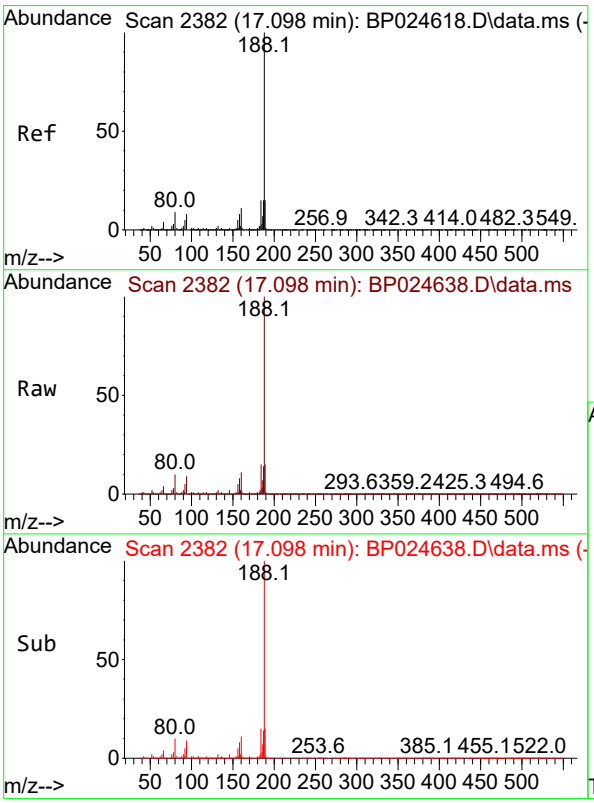
#63
Azobenzene
Concen: 50.138 ng
RT: 15.657 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion: 77 Resp: 1250868

Ion	Ratio	Lower	Upper
77	100		
182	26.3	5.7	45.7
105	21.5	1.3	41.3
51	30.5	10.6	50.6

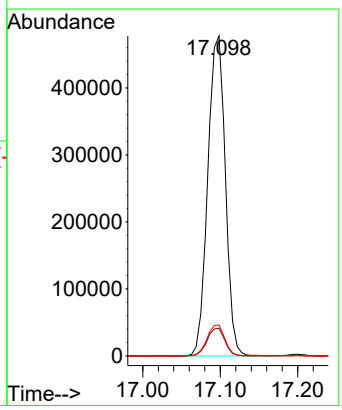


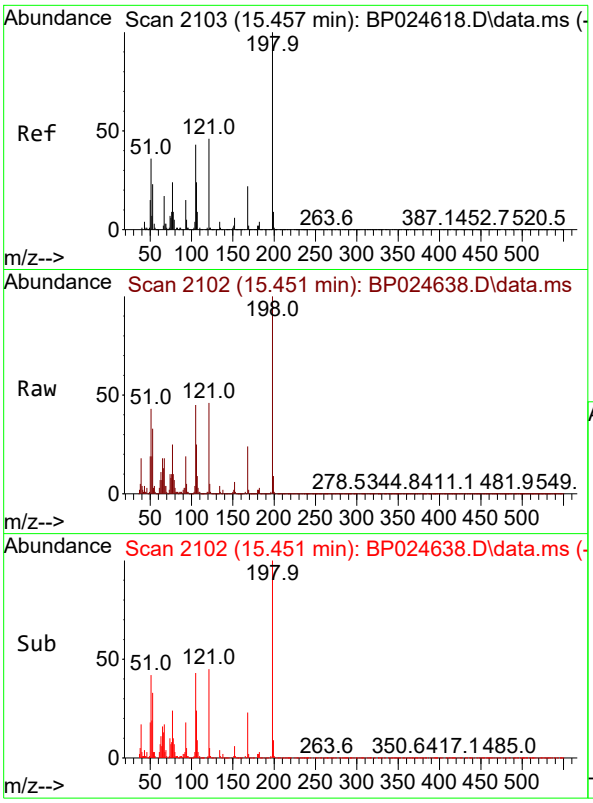


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.098 min Scan# 2382
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:188 Resp: 753325

Ion	Ratio	Lower	Upper
188	100		
94	8.6	6.5	9.7
80	9.7	7.3	10.9



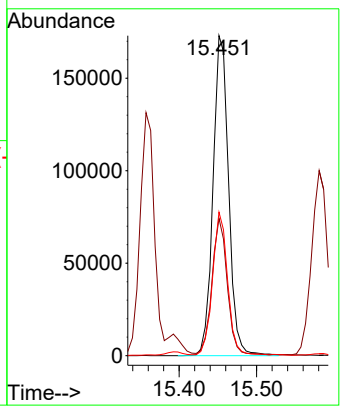


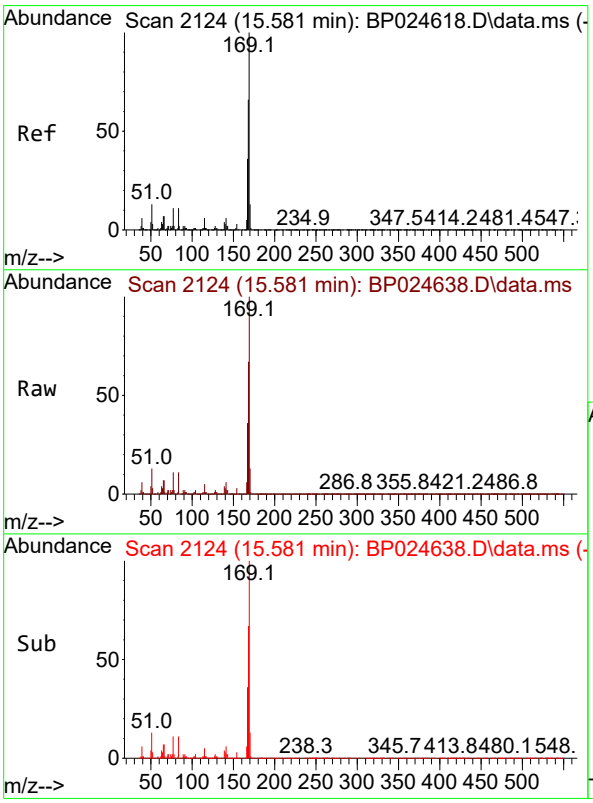
#65
4,6-Dinitro-2-methylphenol
Concen: 49.928 ng
RT: 15.451 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:198 Resp: 242947

Ion	Ratio	Lower	Upper
198	100		
51	42.9	21.1	61.1
105	44.8	23.6	63.6

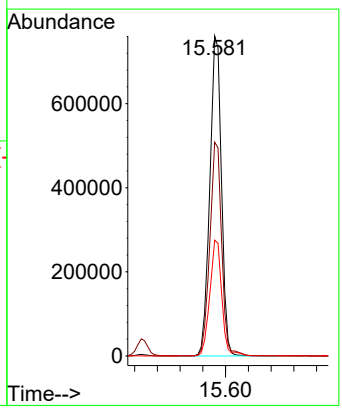


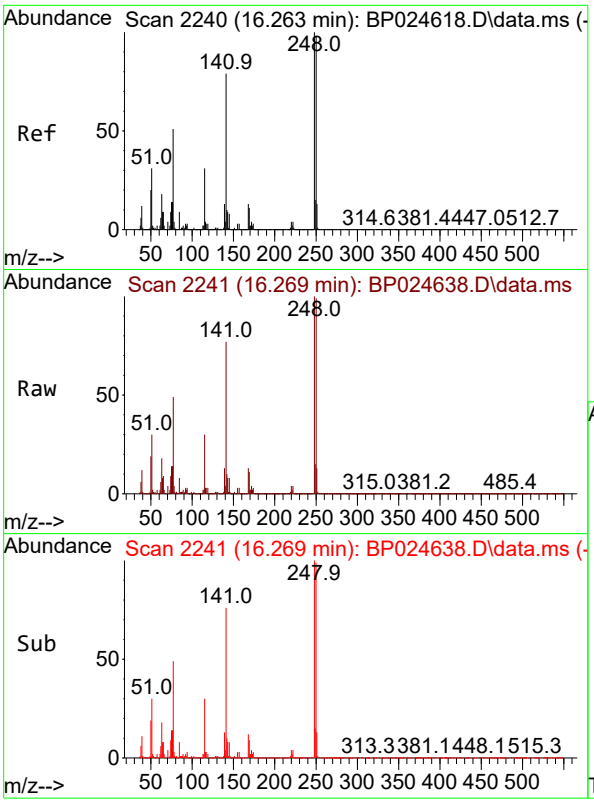


#66
n-Nitrosodiphenylamine
Concen: 46.440 ng
RT: 15.581 min Scan# 2124
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:169 Resp: 1074572

Ion	Ratio	Lower	Upper
169	100		
168	66.8	53.2	79.8
167	36.2	28.6	43.0



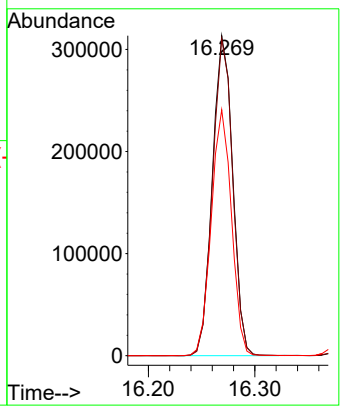


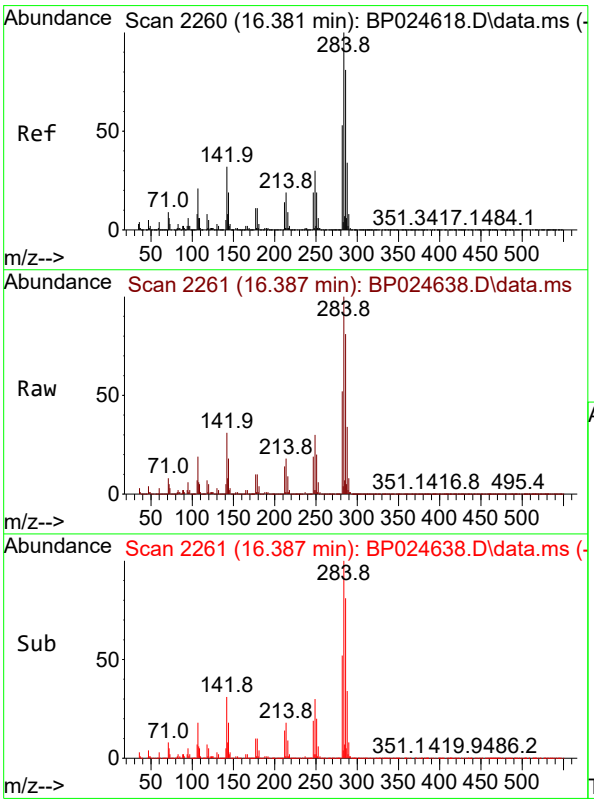
#67
4-Bromophenyl-phenylether
Concen: 46.697 ng
RT: 16.269 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:248 Resp: 414519

Ion	Ratio	Lower	Upper
248	100		
250	99.0	78.2	117.4
141	76.8	63.0	94.6

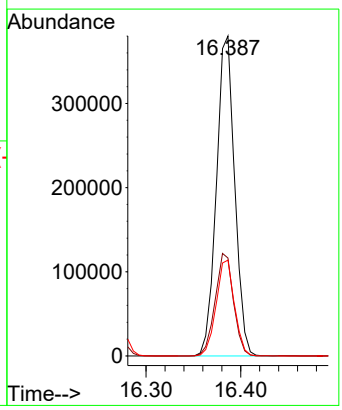


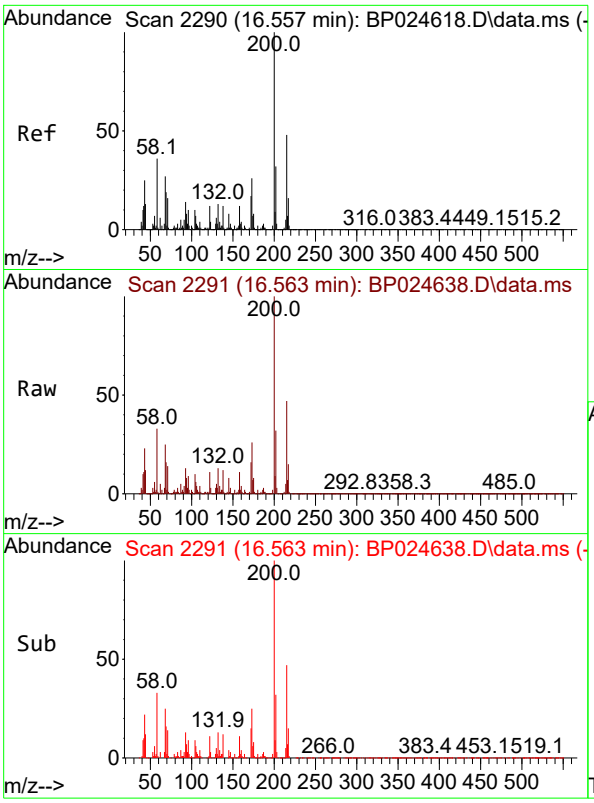


#68
Hexachlorobenzene
Concen: 45.271 ng
RT: 16.387 min Scan# 2261
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:284 Resp: 510643

Ion	Ratio	Lower	Upper
284	100		
142	30.6	25.9	38.9
249	29.9	24.1	36.1



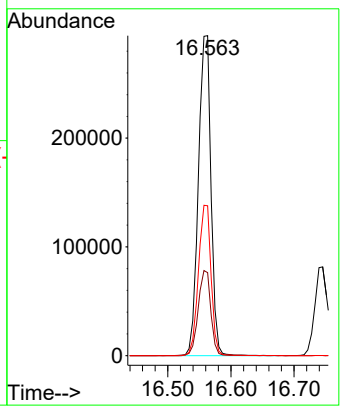


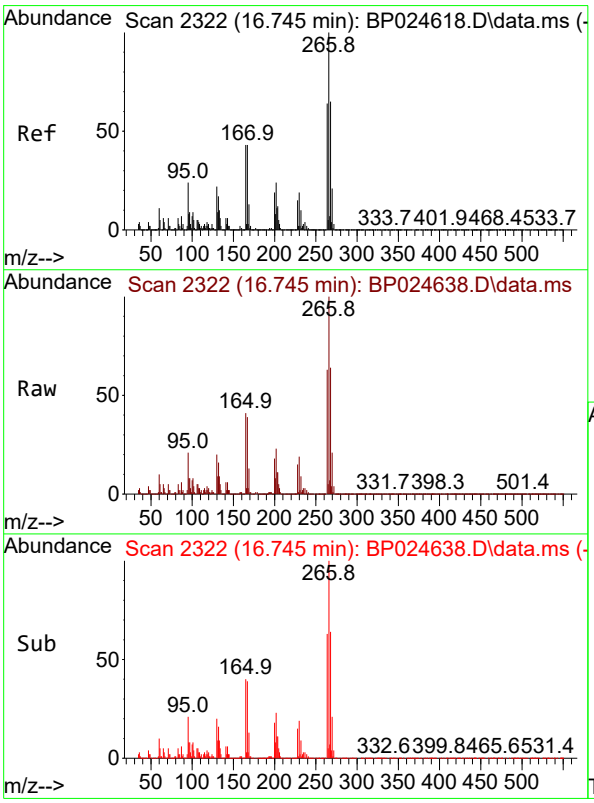
#69
Atrazine
Concen: 47.945 ng
RT: 16.563 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:200 Resp: 406566

Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.9	45.9
215	46.9	28.3	68.3

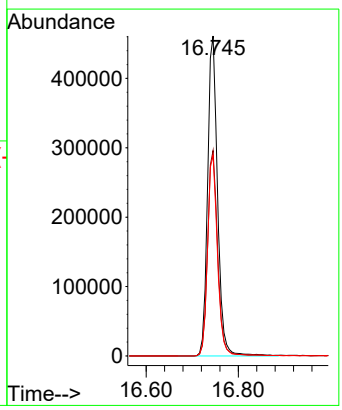


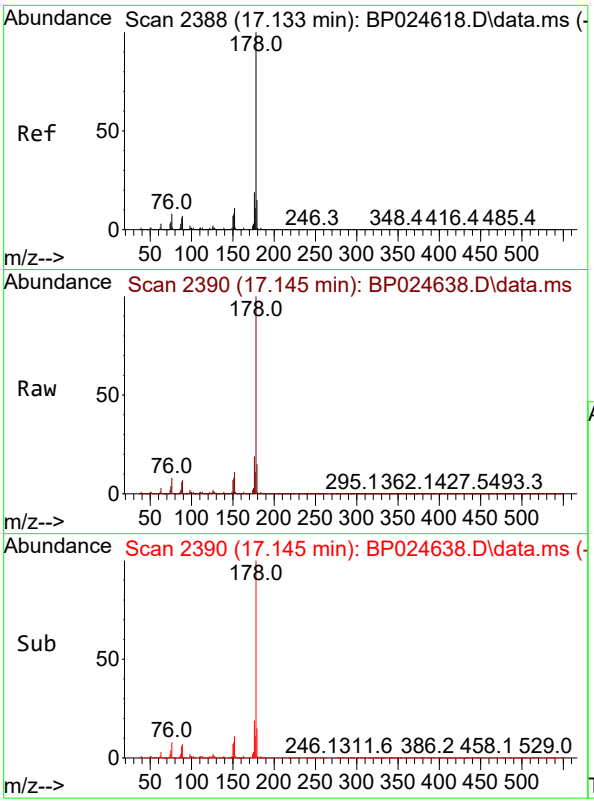


#70
Pentachlorophenol
Concen: 109.894 ng
RT: 16.745 min Scan# 2322
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:266 Resp: 695823

Ion	Ratio	Lower	Upper
266	100		
268	64.2	52.2	78.4
264	62.7	51.1	76.7



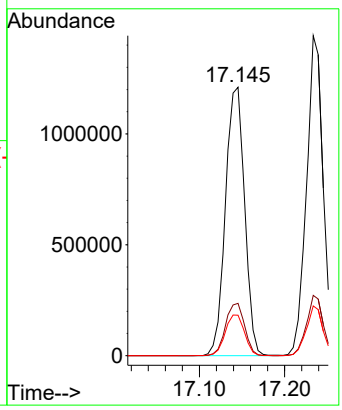


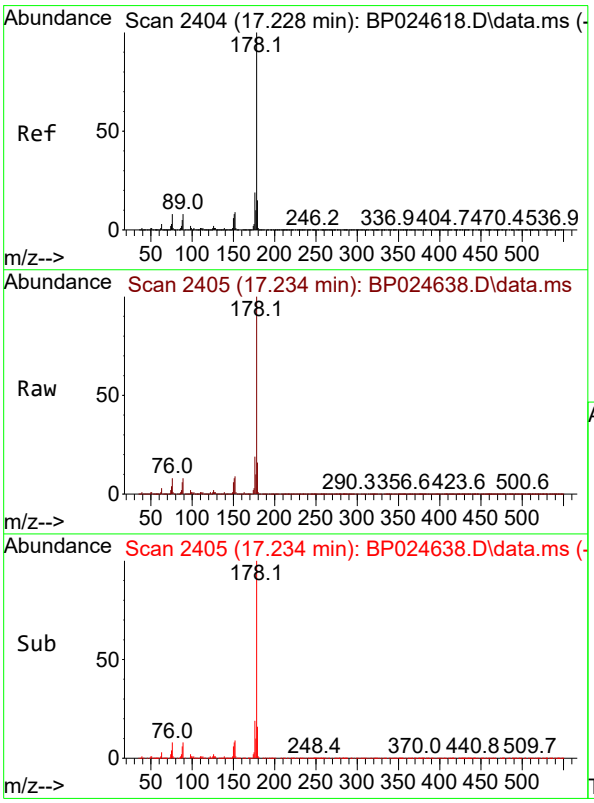
#71
Phenanthrene
Concen: 45.222 ng
RT: 17.145 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:178 Resp: 1893808

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.4	23.2
179	15.1	12.2	18.4

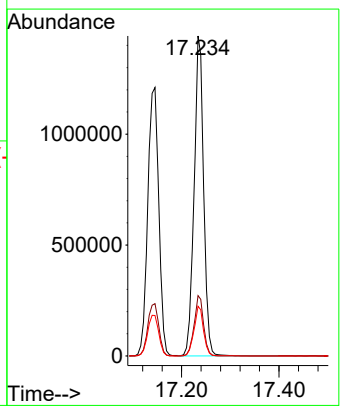


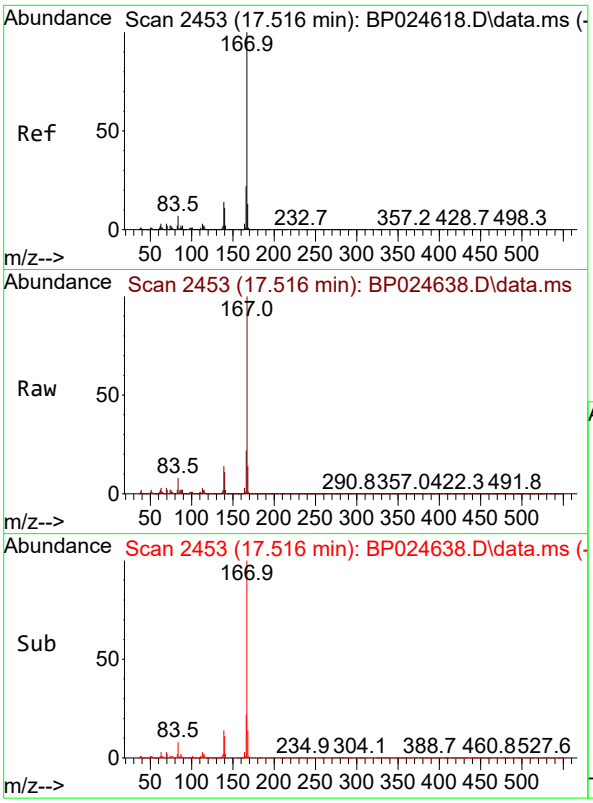


#72
Anthracene
Concen: 46.792 ng
RT: 17.234 min Scan# 2405
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:178 Resp: 1971542

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.0	22.4
179	15.6	12.2	18.2



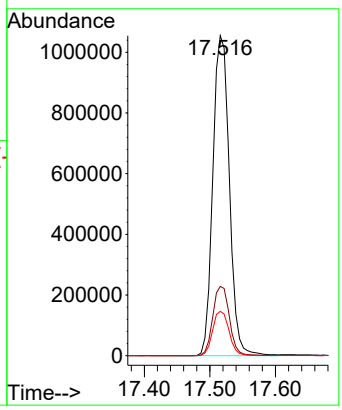


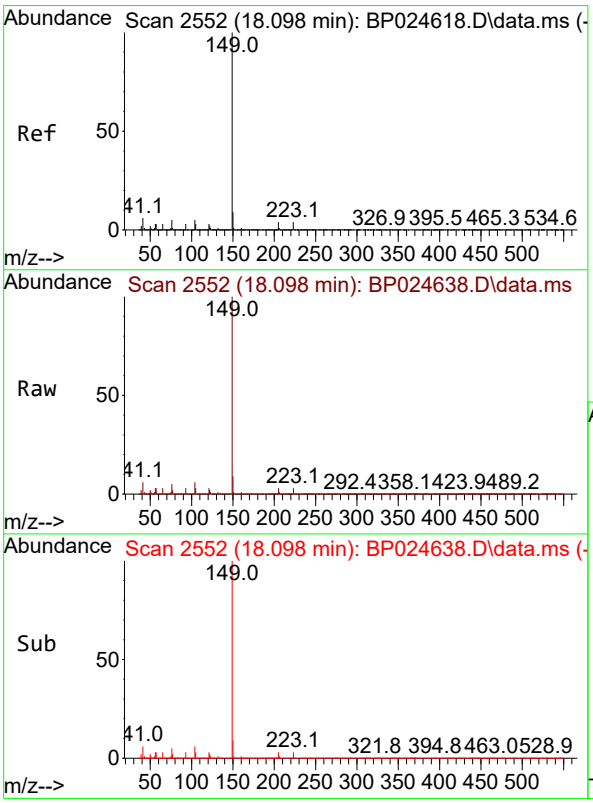
#73
Carbazole
Concen: 48.170 ng
RT: 17.516 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:167 Resp: 1837012

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.7	26.5
139	13.8	11.3	16.9

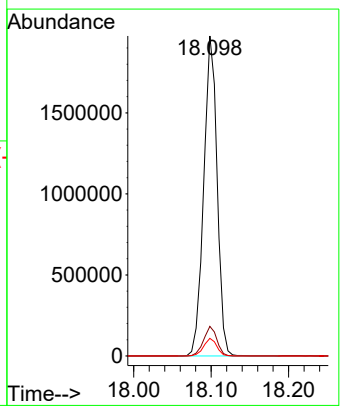


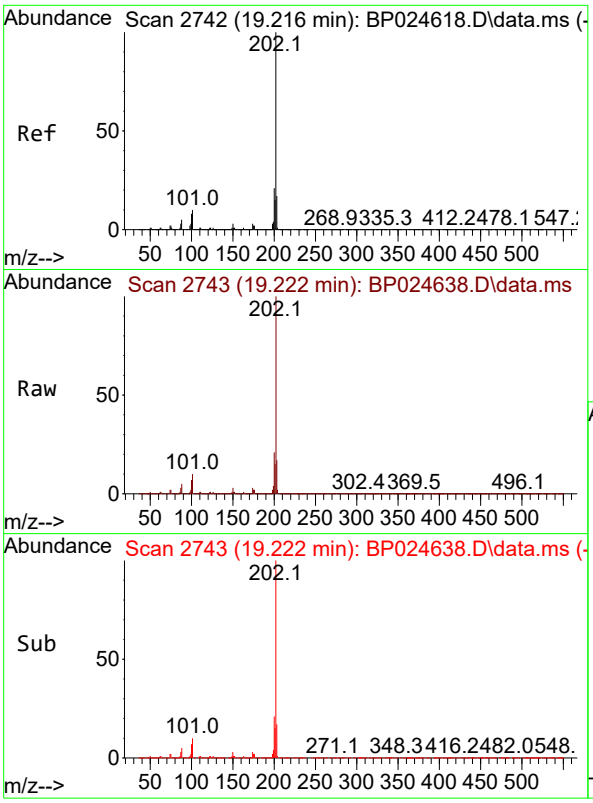


#74
Di-n-butylphthalate
Concen: 48.214 ng
RT: 18.098 min Scan# 2552
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:149 Resp: 2364678

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	5.5	4.3	6.5



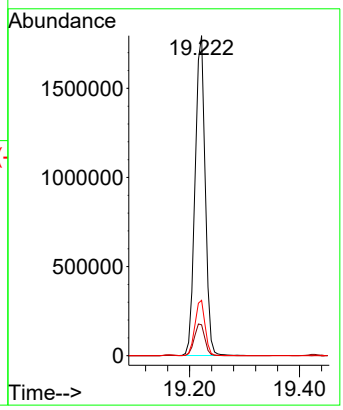


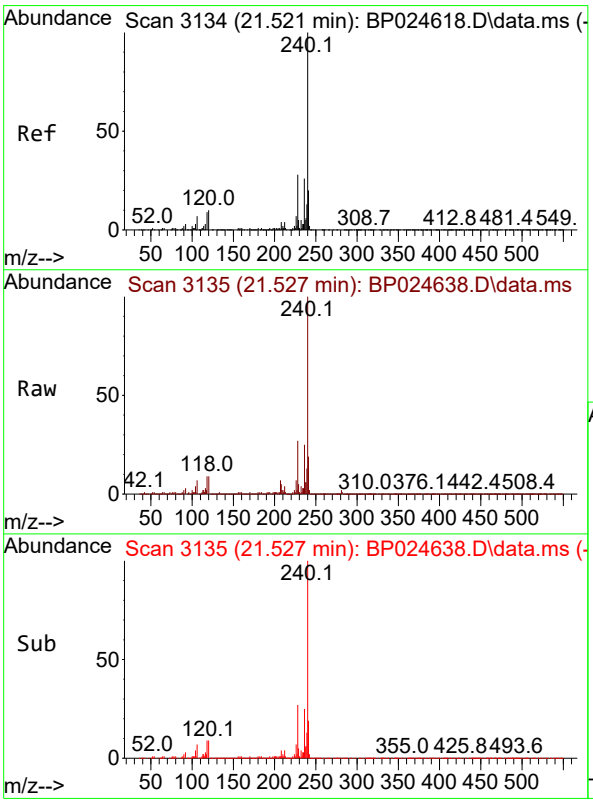
#75
Fluoranthene
Concen: 46.745 ng
RT: 19.222 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:202 Resp: 2288323

Ion	Ratio	Lower	Upper
202	100		
101	9.7	0.0	30.3
203	17.3	0.0	37.5

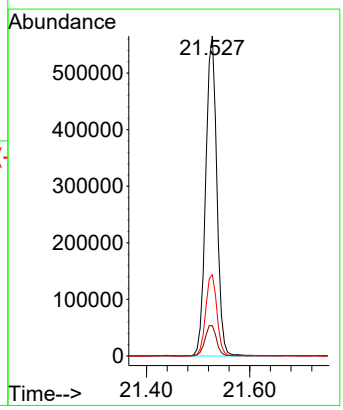


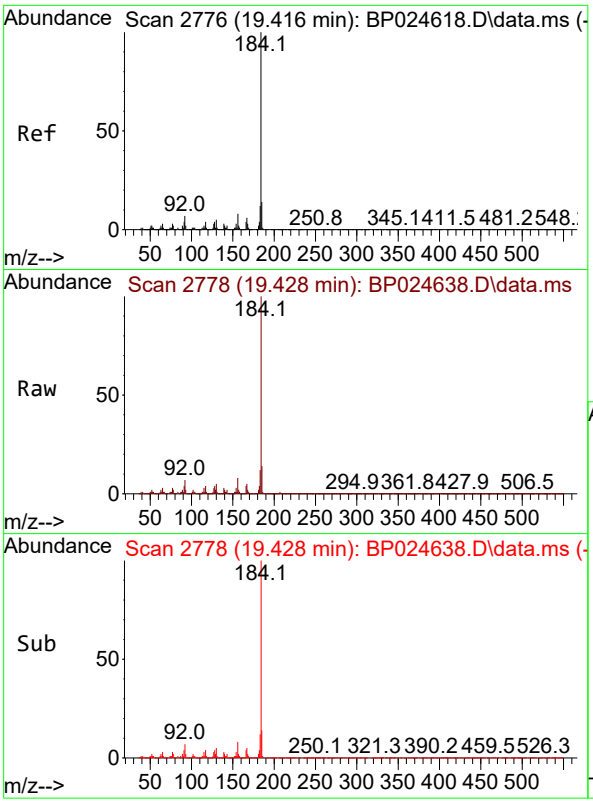


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.527 min Scan# 3135
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:240 Resp: 842505

Ion	Ratio	Lower	Upper
240	100		
120	9.5	7.8	11.6
236	25.4	20.6	31.0



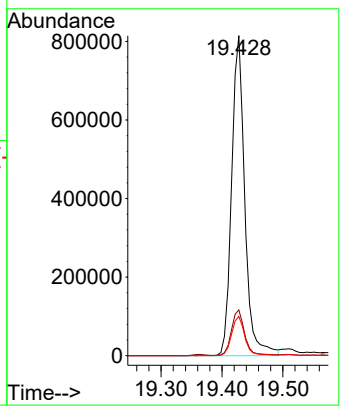


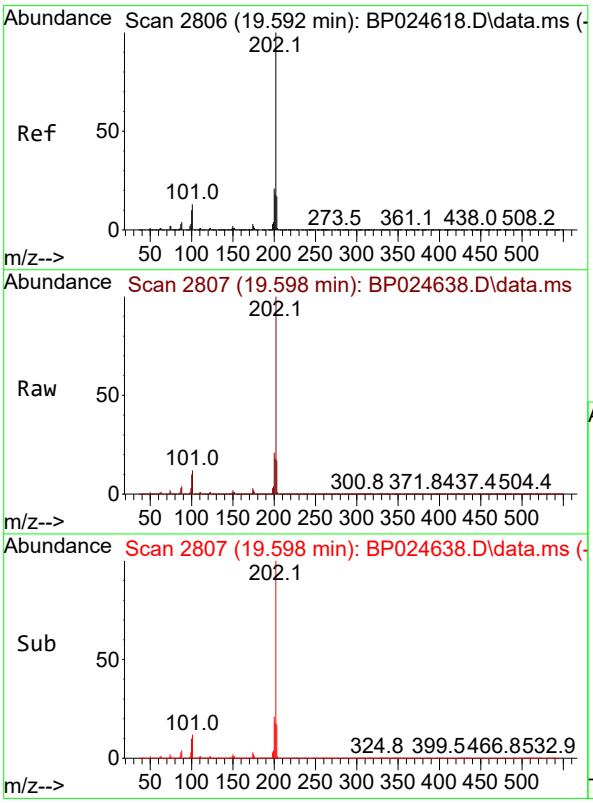
#77
Benzidine
Concen: 53.385 ng
RT: 19.428 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:184 Resp: 1224992

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.2	16.8
183	12.2	9.8	14.8

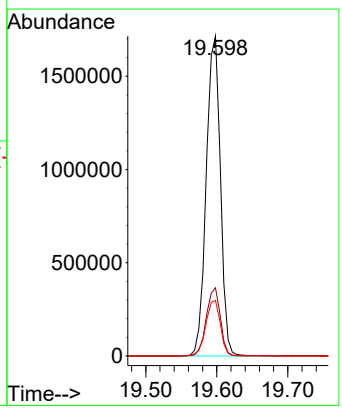


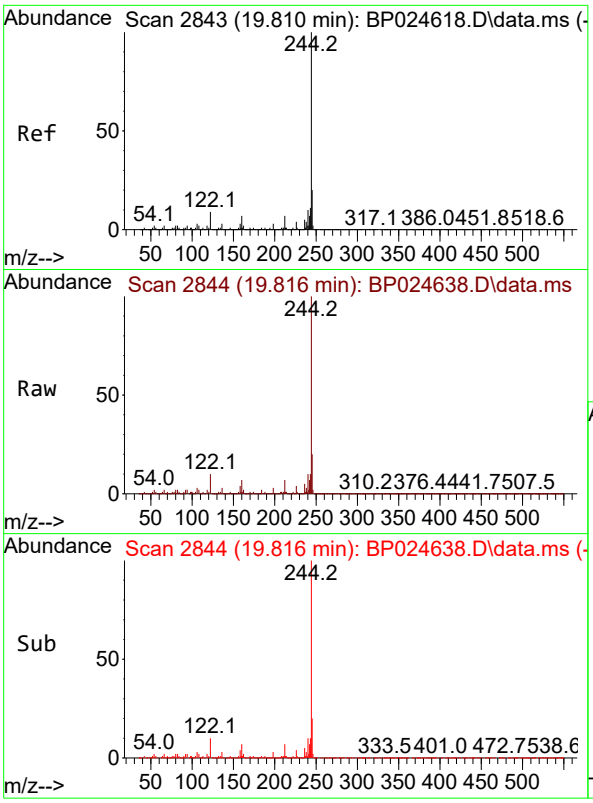


#78
Pyrene
Concen: 47.163 ng
RT: 19.598 min Scan# 2807
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:202 Resp: 2380843

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	17.4	13.9	20.9



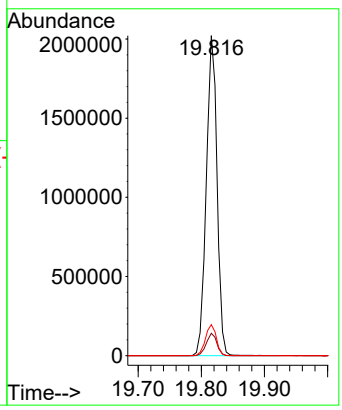


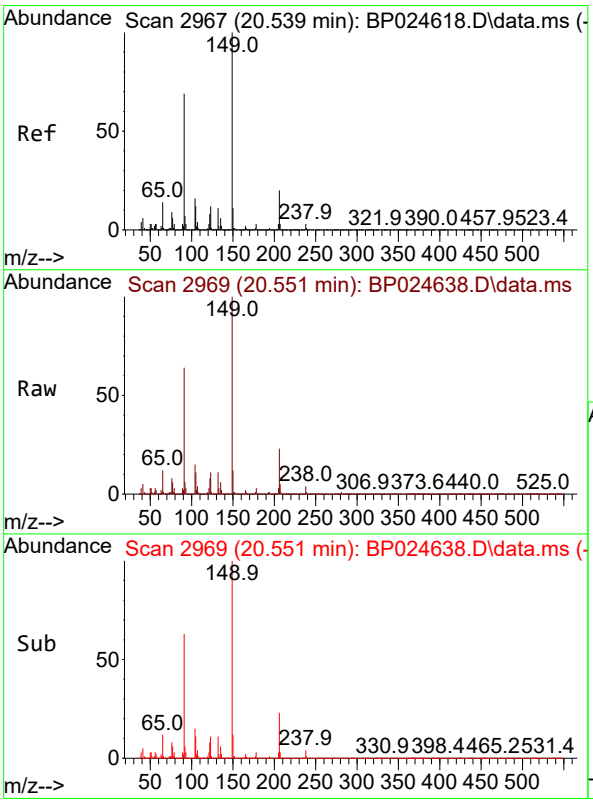
#79
Terphenyl-d14
Concen: 48.697 ng
RT: 19.816 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:244 Resp: 2392705

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	9.7	7.4	11.0

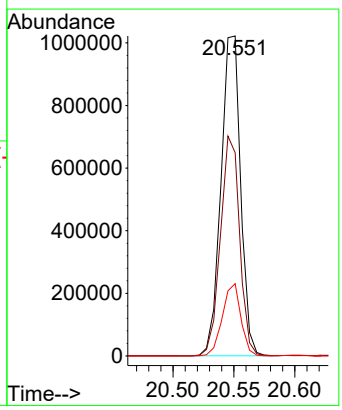


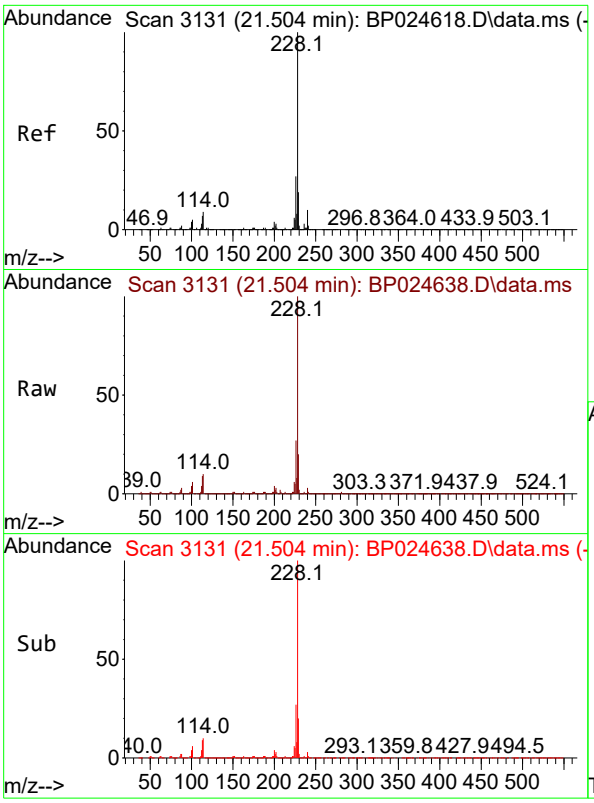


#80
Butylbenzylphthalate
Concen: 51.148 ng
RT: 20.551 min Scan# 2969
Delta R.T. 0.012 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:149 Resp: 1148313

Ion	Ratio	Lower	Upper
149	100		
91	63.5	55.4	83.0
206	22.6	16.2	24.2



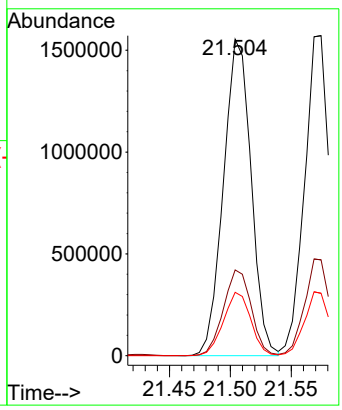


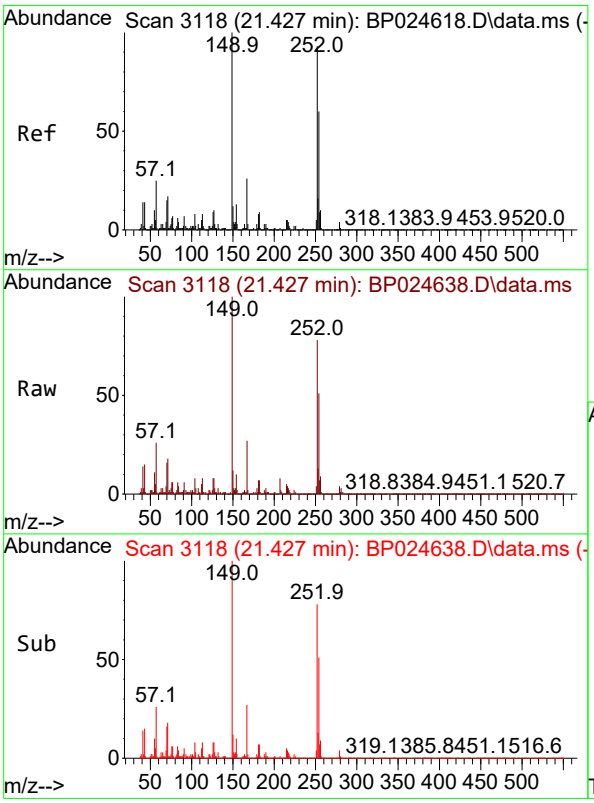
#81
Benzo(a)anthracene
Concen: 46.484 ng
RT: 21.504 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:228 Resp: 2459103

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.4	32.0
229	20.0	15.5	23.3

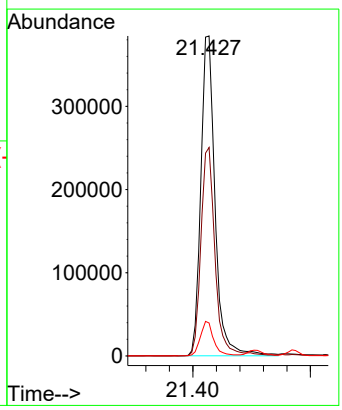


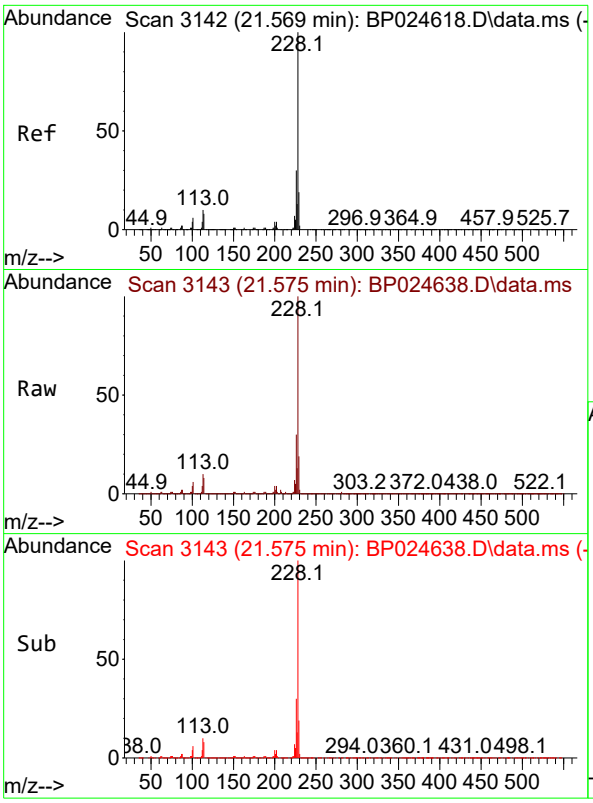


#82
3,3'-Dichlorobenzidine
Concen: 32.874 ng
RT: 21.427 min Scan# 3118
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:252 Resp: 645946

Ion	Ratio	Lower	Upper
252	100		
254	65.1	51.8	77.6
126	10.3	7.7	11.5



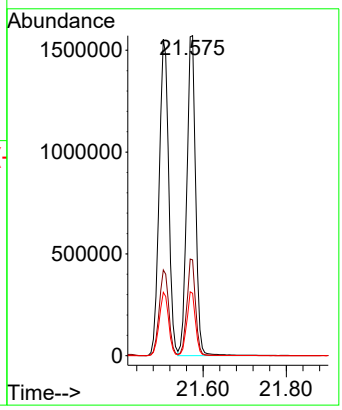


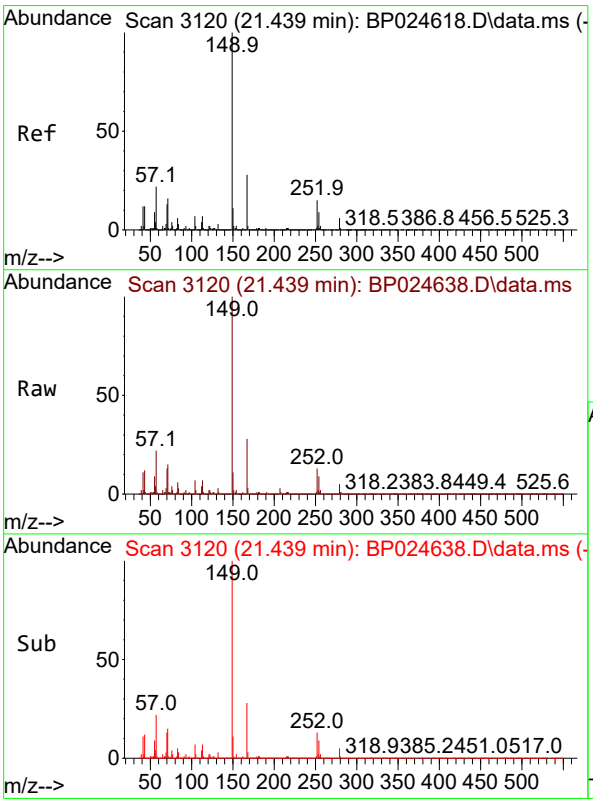
#83
Chrysene
Concen: 45.864 ng
RT: 21.575 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:228 Resp: 2300052

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.9	35.9
229	19.5	15.5	23.3

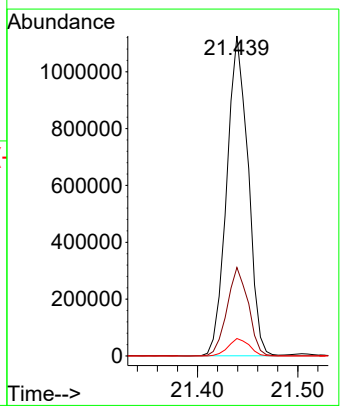


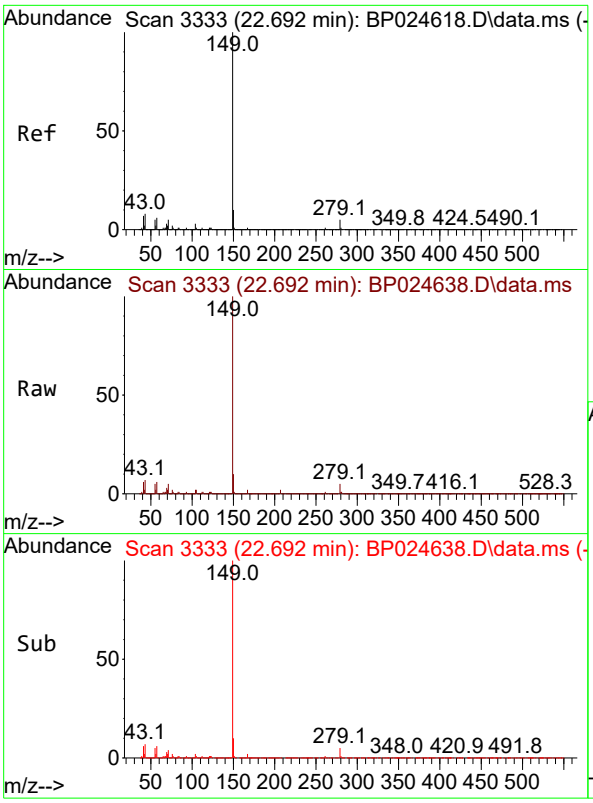


#84
Bis(2-ethylhexyl)phthalate
Concen: 50.290 ng
RT: 21.439 min Scan# 3120
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:149 Resp: 1659519

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.1	33.1
279	5.5	4.6	6.8



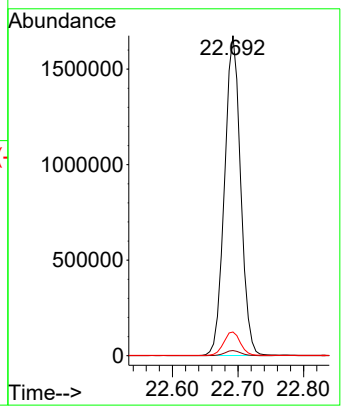


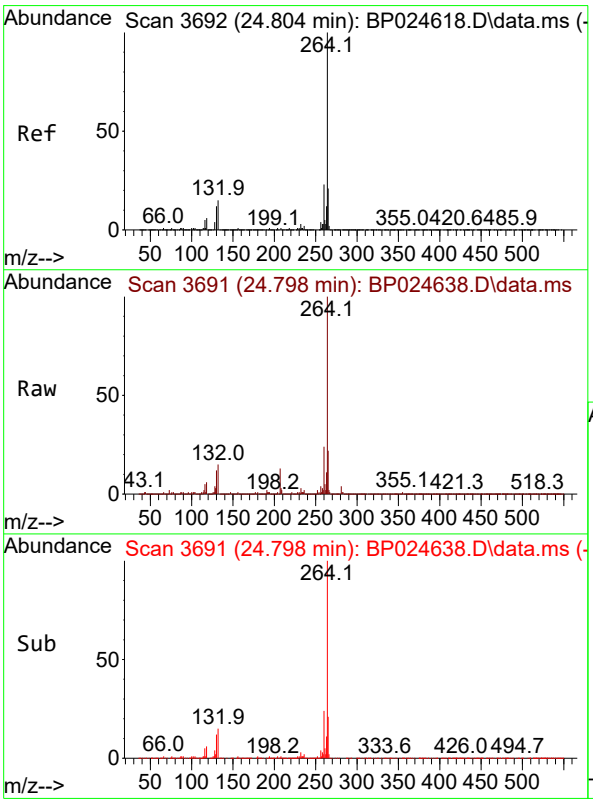
#85
Di-n-octyl phthalate
Concen: 52.847 ng
RT: 22.692 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:149 Resp: 2851767

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.6	6.3	9.5

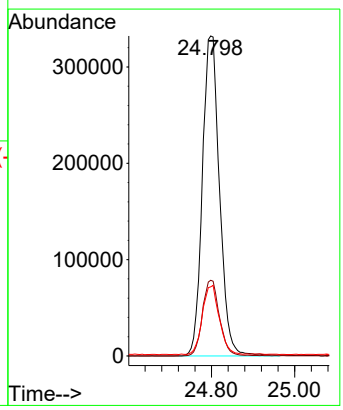


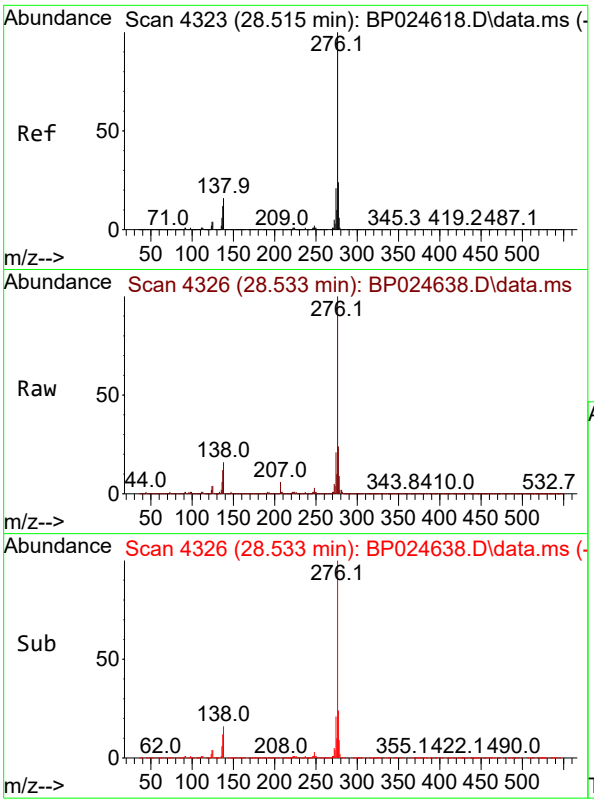


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.798 min Scan# 3691
Delta R.T. -0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:264 Resp: 953147

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.7	28.1
265	21.6	17.0	25.6



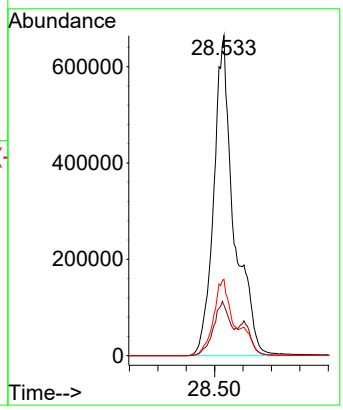


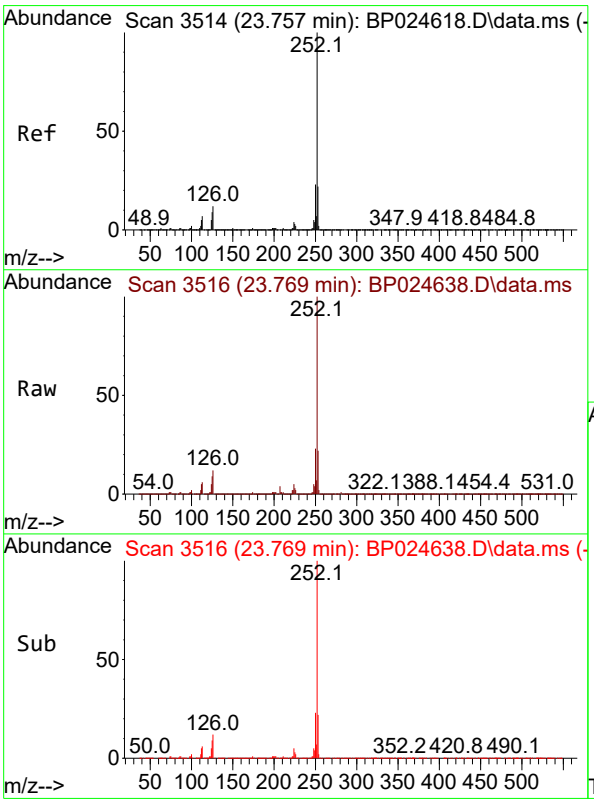
#87
Indeno(1,2,3-cd)pyrene
Concen: 47.287 ng
RT: 28.533 min Scan# 4
Delta R.T. 0.018 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:276 Resp: 3290454

Ion	Ratio	Lower	Upper
276	100		
138	13.8	11.2	16.8
277	20.7	15.7	23.5

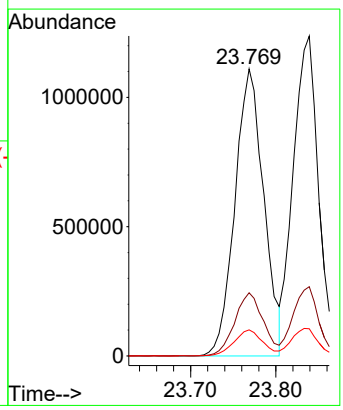


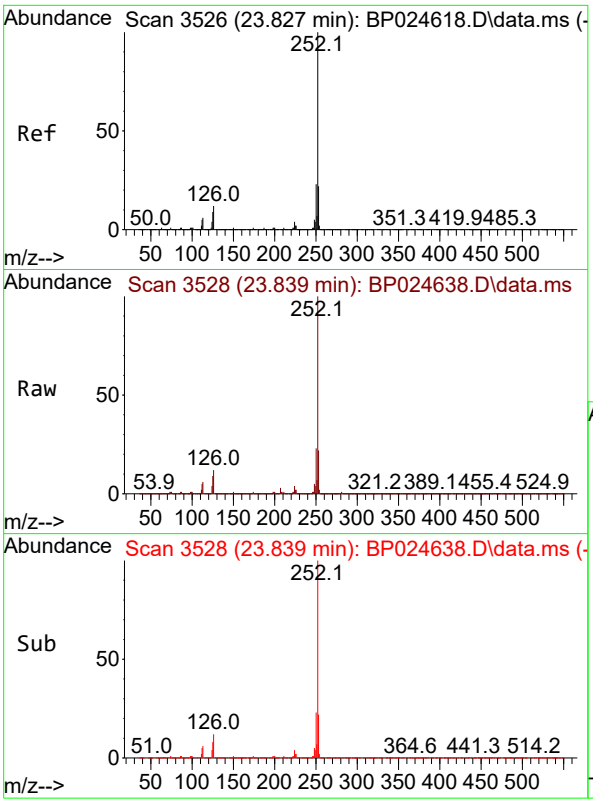


#88
Benzo(b)fluoranthene
Concen: 47.829 ng
RT: 23.769 min Scan# 3516
Delta R.T. 0.012 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:252 Resp: 2609378

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	9.1	7.5	11.3



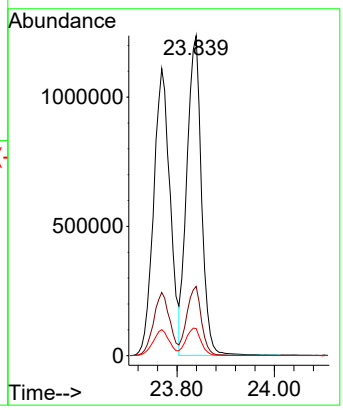


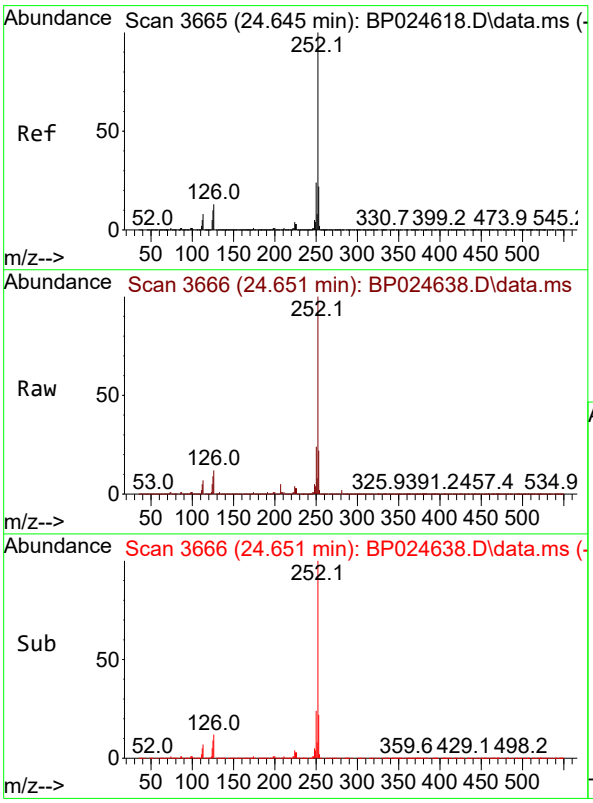
#89
Benzo(k)fluoranthene
Concen: 45.681 ng
RT: 23.839 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:252 Resp: 2568026

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.6	26.4
125	8.5	7.0	10.4

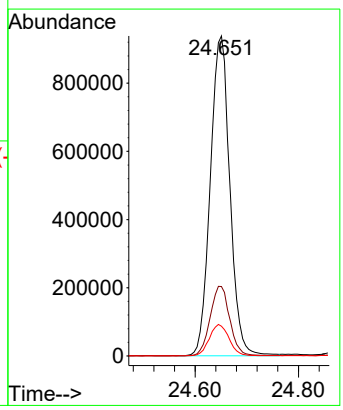


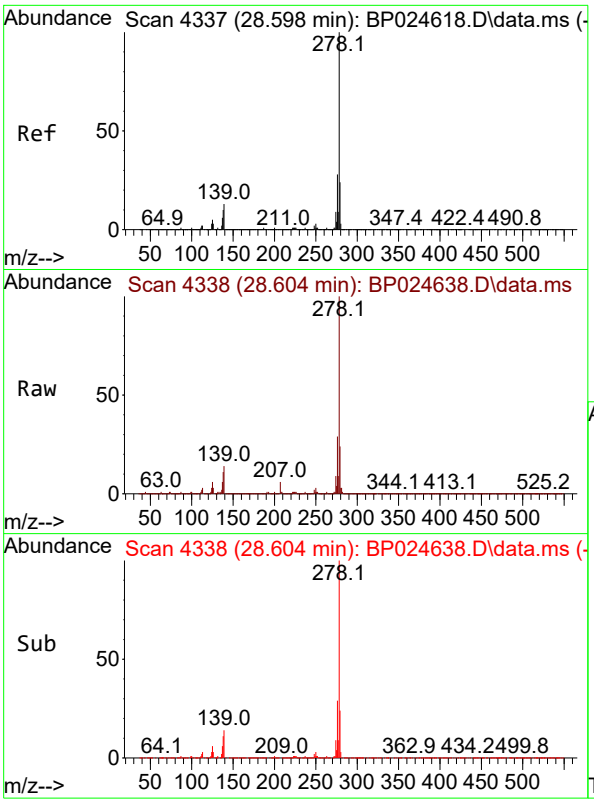


#90
Benzo(a)pyrene
Concen: 46.981 ng
RT: 24.651 min Scan# 3666
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:252 Resp: 2461650

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	9.3	8.1	12.1



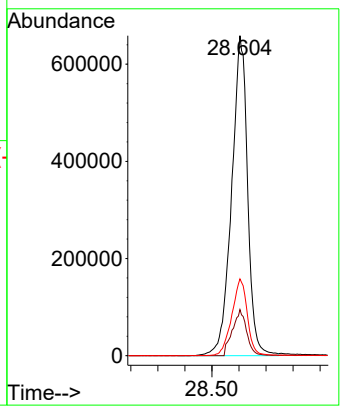


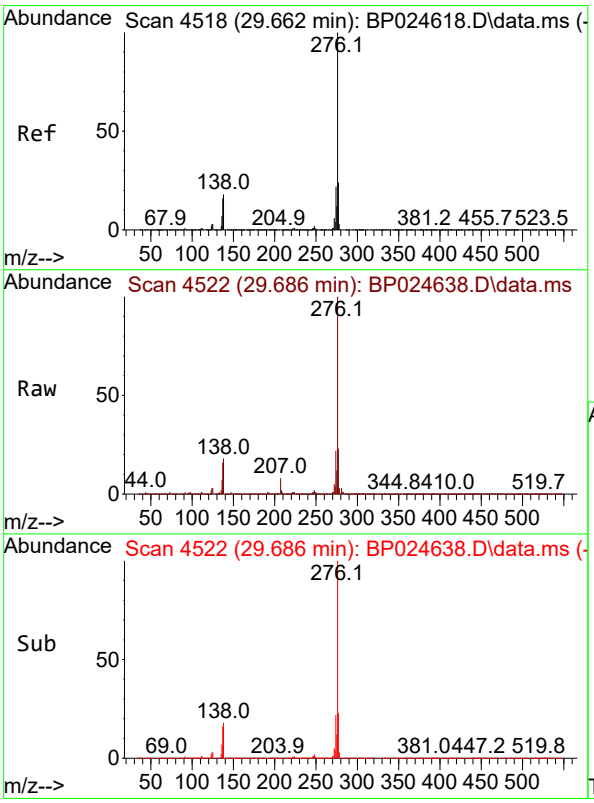
#91
Dibenzo(a,h)anthracene
Concen: 47.603 ng
RT: 28.604 min Scan# 4
Delta R.T. 0.006 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Instrument :
BNA_P
ClientSampleId :
TP-13MS

Tgt Ion:278 Resp: 2694828

Ion	Ratio	Lower	Upper
278	100		
139	14.4	10.2	15.4
279	24.0	19.0	28.4

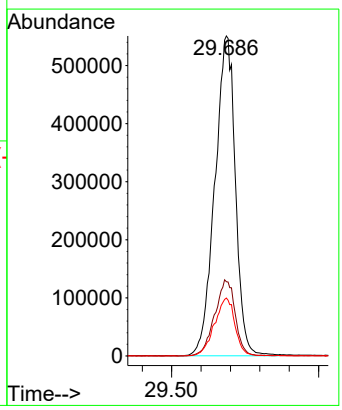




#92
Benzo(g,h,i)perylene
Concen: 47.408 ng
RT: 29.686 min Scan# 4522
Delta R.T. 0.024 min
Lab File: BP024638.D
Acq: 15 May 2025 15:18

Tgt Ion:276 Resp: 2668855

Ion	Ratio	Lower	Upper
276	100		
277	23.2	19.0	28.4
138	18.1	14.4	21.6



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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/16/25
Project:	Raymark Superfund Site	Date Received:	05/16/25
Client Sample ID:	L2-WC-5MS	SDG No.:	Q1984
Lab Sample ID:	Q2071-13MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.4
Sample Wt/Vol:	50.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024710.D	1	05/19/25 09:45	05/20/25 16:38	PB168052

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.98		0.016	0.092	0.12	mg/Kg
91-57-6	2-Methylnaphthalene	0.96		0.018	0.092	0.12	mg/Kg
208-96-8	Acenaphthylene	1.00		0.021	0.092	0.12	mg/Kg
83-32-9	Acenaphthene	0.99		0.015	0.092	0.12	mg/Kg
86-73-7	Fluorene	1.00		0.018	0.092	0.12	mg/Kg
85-01-8	Phenanthrene	1.00		0.015	0.092	0.12	mg/Kg
120-12-7	Anthracene	1.00		0.024	0.092	0.12	mg/Kg
206-44-0	Fluoranthene	1.00		0.021	0.092	0.12	mg/Kg
129-00-0	Pyrene	0.99		0.026	0.092	0.12	mg/Kg
56-55-3	Benzo(a)anthracene	1.00		0.016	0.092	0.12	mg/Kg
218-01-9	Chrysene	1.00		0.014	0.092	0.12	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.00		0.014	0.092	0.12	mg/Kg
207-08-9	Benzo(k)fluoranthene	1.00		0.016	0.092	0.12	mg/Kg
50-32-8	Benzo(a)pyrene	1.00		0.021	0.092	0.12	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.00		0.021	0.092	0.12	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	1.00		0.020	0.092	0.12	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.00		0.018	0.092	0.12	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	34.6	*	37 - 122		35%	SPK: 100
321-60-8	2-Fluorobiphenyl	37.0	*	44 - 115		37%	SPK: 100
1718-51-0	Terphenyl-d14	38.1	*	54 - 127		38%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	123000	7.652				
1146-65-2	Naphthalene-d8	485000	10.422				
15067-26-2	Acenaphthene-d10	310000	14.287				
1517-22-2	Phenanthrene-d10	602000	17.081				
1719-03-5	Chrysene-d12	694000	21.516				
1520-96-3	Perylene-d12	811000	24.798				

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/16/25
Project:	Raymark Superfund Site	Date Received:	05/16/25
Client Sample ID:	L2-WC-5MS	SDG No.:	Q1984
Lab Sample ID:	Q2071-13MS	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.4
Sample Wt/Vol:	50.03 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024710.D	1	05/19/25 09:45	05/20/25 16:38	PB168052

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_P\Data\BP052025\
Data File : BP024710.D
Acq On : 20 May 2025 16:38
Operator : RC/JU
Sample : Q2071-13MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Quant Time: May 20 17:10:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.652	152	123244	20.000	ng		-0.01
21) Naphthalene-d8	10.422	136	485383	20.000	ng		-0.01
39) Acenaphthene-d10	14.287	164	309601	20.000	ng		-0.02
64) Phenanthrene-d10	17.081	188	602056	20.000	ng		-0.02
76) Chrysene-d12	21.516	240	694322	20.000	ng		0.00
86) Perylene-d12	24.798	264	810851	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.287	112	448154	62.194	ng		0.00
7) Phenol-d6	6.858	99	571063	62.096	ng		0.00
23) Nitrobenzene-d5	8.805	82	332805	34.644	ng		0.00
42) 2,4,6-Tribromophenol	15.804	330	370801	70.647	ng		0.00
45) 2-Fluorobiphenyl	12.893	172	874938	37.024	ng		-0.01
79) Terphenyl-d14	19.804	244	1542550	38.095	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.223	88	120843	35.714	ng		97
3) Pyridine	3.617	79	268070	35.730	ng		94
4) n-Nitrosodimethylamine	3.528	42	136135	41.101	ng		88
6) Aniline	6.999	93	210516	17.730	ng		100
8) 2-Chlorophenol	7.234	128	349992	42.786	ng		96
9) Benzaldehyde	6.811	77	184561	31.002	ng		97
10) Phenol	6.887	94	383054	40.356	ng		97
11) bis(2-Chloroethyl)ether	7.087	93	279863	35.882	ng		99
12) 1,3-Dichlorobenzene	7.546	146	380485	40.429	ng		98
13) 1,4-Dichlorobenzene	7.687	146	385317	40.708	ng		100
14) 1,2-Dichlorobenzene	8.005	146	368905	39.997	ng		99
15) Benzyl Alcohol	7.905	79	275775	39.461	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.175	45	324413	34.732	ng		99
17) 2-Methylphenol	8.116	107	274824	40.369	ng		97
18) Hexachloroethane	8.716	117	142069	39.167	ng		98
19) n-Nitroso-di-n-propyla...	8.458	70	214085	33.653	ng		95
20) 3+4-Methylphenols	8.446	107	366073	39.530	ng		96
22) Acetophenone	8.475	105	487168	40.180	ng	#	99
24) Nitrobenzene	8.846	77	327715	38.765	ng		94
25) Isophorone	9.369	82	605696	36.348	ng		97
26) 2-Nitrophenol	9.552	139	187001	45.142	ng		98
27) 2,4-Dimethylphenol	9.622	122	311328	42.626	ng		100
28) bis(2-Chloroethoxy)met...	9.846	93	374592	37.626	ng		99
29) 2,4-Dichlorophenol	10.099	162	320635	45.302	ng		98
30) 1,2,4-Trichlorobenzene	10.287	180	346542	43.450	ng		97
31) Naphthalene	10.475	128	1041017	41.387	ng		99
32) Benzoic acid	9.805	122	195656	39.962	ng		96
33) 4-Chloroaniline	10.599	127	128216	12.632	ng		98
34) Hexachlorobutadiene	10.757	225	229103	44.342	ng		98
35) Caprolactam	11.393	113	97262	37.982	ng		92
36) 4-Chloro-3-methylphenol	11.746	107	356396	41.292	ng		97
37) 2-Methylnaphthalene	12.093	142	662361	40.668	ng		98
38) 1-Methylnaphthalene	12.310	142	715055	41.033	ng		99
40) 1,2,4,5-Tetrachloroben...	12.463	216	401244	44.630	ng		99
41) Hexachlorocyclopentadiene	12.440	237	507060	93.013	ng		97
43) 2,4,6-Trichlorophenol	12.722	196	270104	46.384	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024710.D
Acq On : 20 May 2025 16:38
Operator : RC/JU
Sample : Q2071-13MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Quant Time: May 20 17:10:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

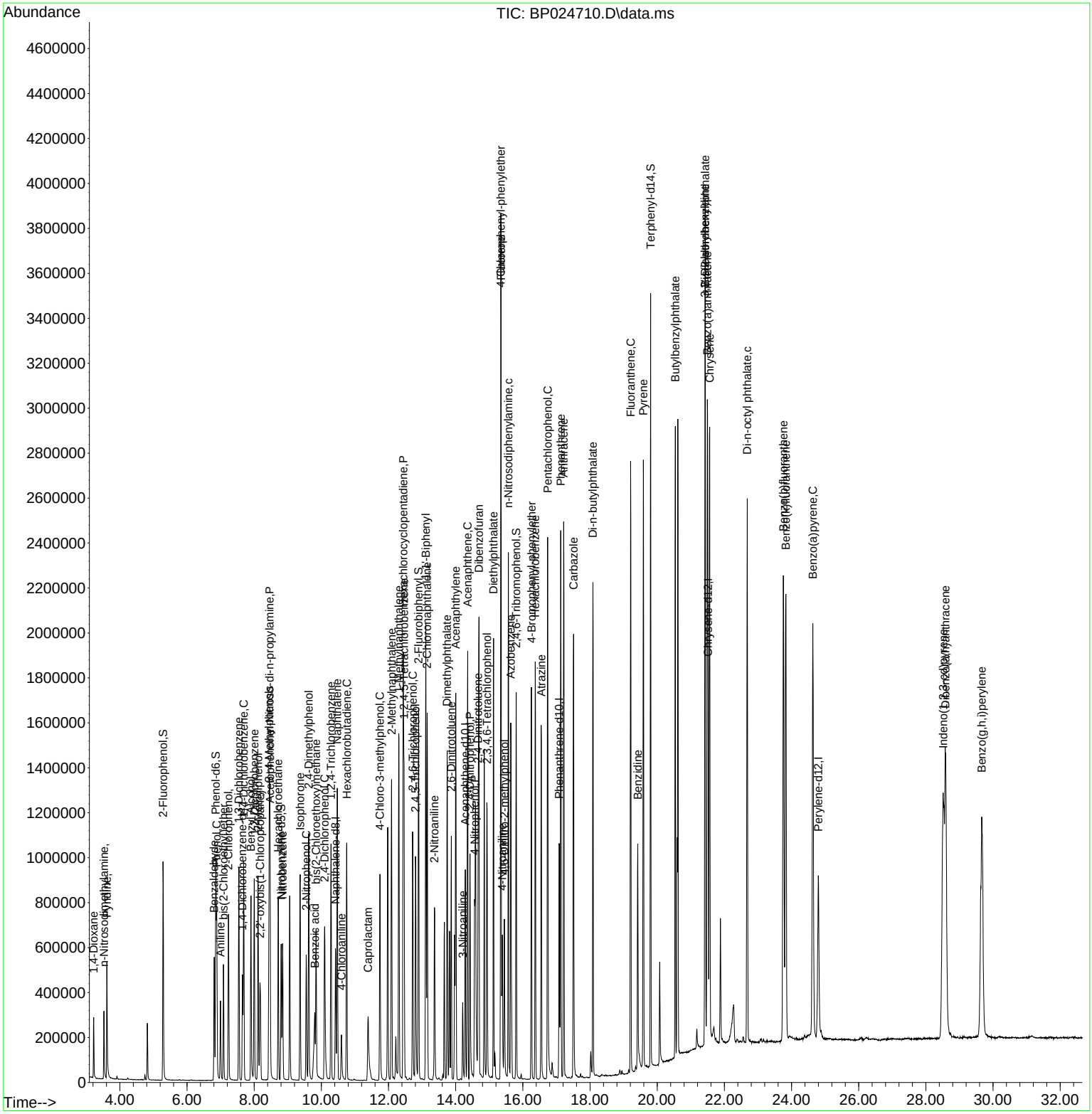
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.804	196	293230	45.238	ng		96
46) 1,1'-Biphenyl	13.110	154	1016109	44.405	ng		98
47) 2-Chloronaphthalene	13.151	162	767652	43.998	ng		99
48) 2-Nitroaniline	13.369	65	221137	42.810	ng		98
49) Acenaphthylene	14.004	152	1256167	43.022	ng		99
50) Dimethylphthalate	13.745	163	984957	41.739	ng		99
51) 2,6-Dinitrotoluene	13.869	165	215564	43.253	ng		98
52) Acenaphthene	14.357	154	704651	41.979	ng		99
53) 3-Nitroaniline	14.210	138	90611	17.806	ng		100
54) 2,4-Dinitrophenol	14.428	184	244832	78.073	ng		96
55) Dibenzofuran	14.693	168	1121969	41.905	ng		99
56) 4-Nitrophenol	14.563	139	317817	72.556	ng		97
57) 2,4-Dinitrotoluene	14.669	165	307186	43.720	ng		96
58) Fluorene	15.351	166	925244	42.381	ng		100
59) 2,3,4,6-Tetrachlorophenol	14.934	232	265318	44.124	ng		98
60) Diethylphthalate	15.128	149	986733	41.371	ng		99
61) 4-Chlorophenyl-phenyle...	15.345	204	470546	43.219	ng		99
62) 4-Nitroaniline	15.387	138	208945	42.524	ng		99
63) Azobenzene	15.640	77	900768	44.148	ng		96
65) 4,6-Dinitro-2-methylph...	15.451	198	175911	45.234	ng		94
66) n-Nitrosodiphenylamine	15.569	169	808469	43.718	ng		99
67) 4-Bromophenyl-phenylether	16.257	248	320006	45.108	ng		98
68) Hexachlorobenzene	16.369	284	412329	45.740	ng		95
69) Atrazine	16.551	200	299058	44.128	ng		99
70) Pentachlorophenol	16.739	266	506884	100.168	ng		98
71) Phenanthrene	17.128	178	1420071	42.429	ng		100
72) Anthracene	17.216	178	1453916	43.177	ng		100
73) Carbazole	17.510	167	1331178	43.677	ng		100
74) Di-n-butylphthalate	18.086	149	1686186	43.018	ng		99
75) Fluoranthene	19.210	202	1677434	42.876	ng		99
77) Benzidine	19.422	184	633675	33.509	ng		100
78) Pyrene	19.586	202	1745089	41.947	ng		99
80) Butylbenzylphthalate	20.539	149	818753	44.252	ng		95
81) Benzo(a)anthracene	21.492	228	1864044	42.756	ng		99
82) 3,3'-Dichlorobenzidine	21.422	252	438591	27.085	ng		99
83) Chrysene	21.563	228	1757452	42.524	ng		99
84) Bis(2-ethylhexyl)phtha...	21.427	149	1198343	44.065	ng		99
85) Di-n-octyl phthalate	22.680	149	2064146	46.415	ng		99
87) Indeno(1,2,3-cd)pyrene	28.515	276	2585176	43.671	ng	#	91
88) Benzo(b)fluoranthene	23.757	252	2000923	43.112	ng		99
89) Benzo(k)fluoranthene	23.833	252	2029278	42.432	ng		99
90) Benzo(a)pyrene	24.633	252	1924735	43.180	ng		99
91) Dibenzo(a,h)anthracene	28.586	278	2119937	44.020	ng		98
92) Benzo(g,h,i)perylene	29.662	276	2065785	43.135	ng		98

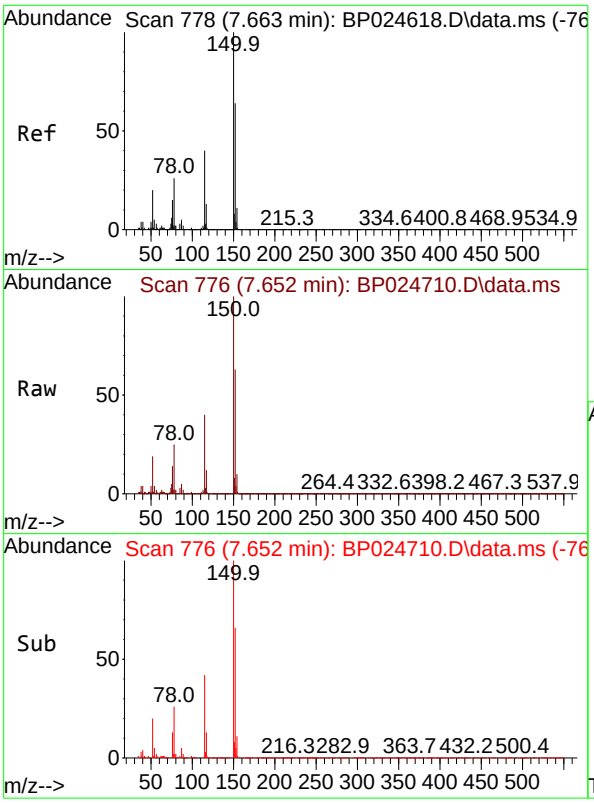
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024710.D
Acq On : 20 May 2025 16:38
Operator : RC/JU
Sample : Q2071-13MS
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Quant Time: May 20 17:10:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



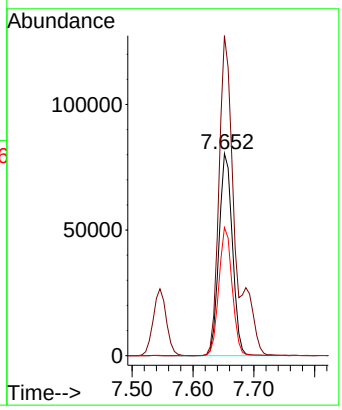


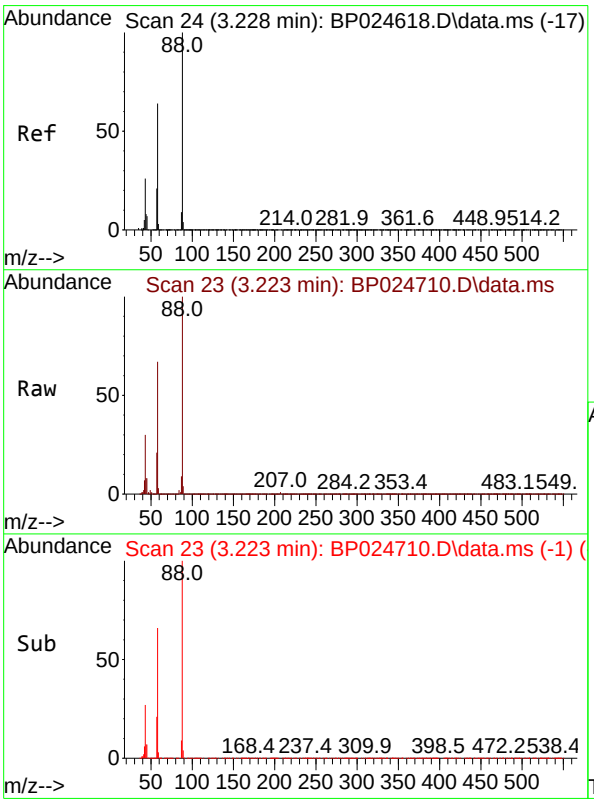
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.652 min Scan# 7
Delta R.T. -0.011 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:152 Resp: 123244

Ion	Ratio	Lower	Upper
152	100		
150	158.3	125.9	188.9
115	63.4	50.1	75.1

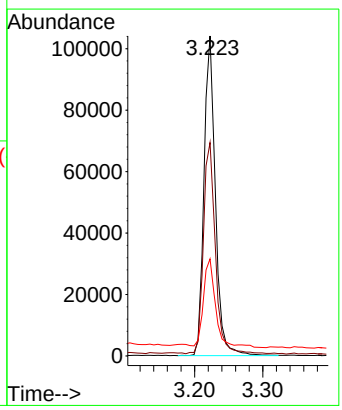


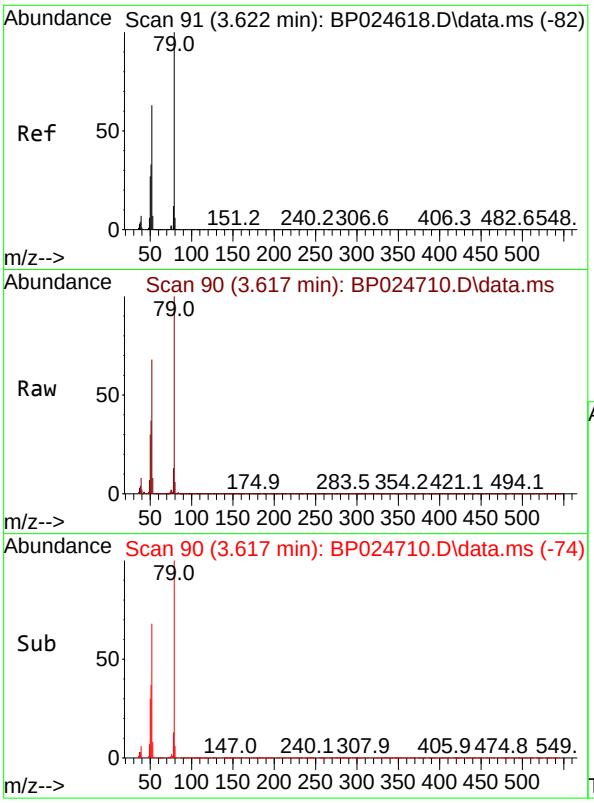


#2
1,4-Dioxane
Concen: 35.714 ng
RT: 3.223 min Scan# 23
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion: 88 Resp: 120843

Ion	Ratio	Lower	Upper
88	100		
58	69.0	54.0	81.0
43	30.0	21.4	32.0



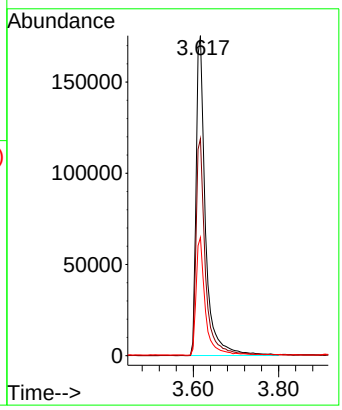


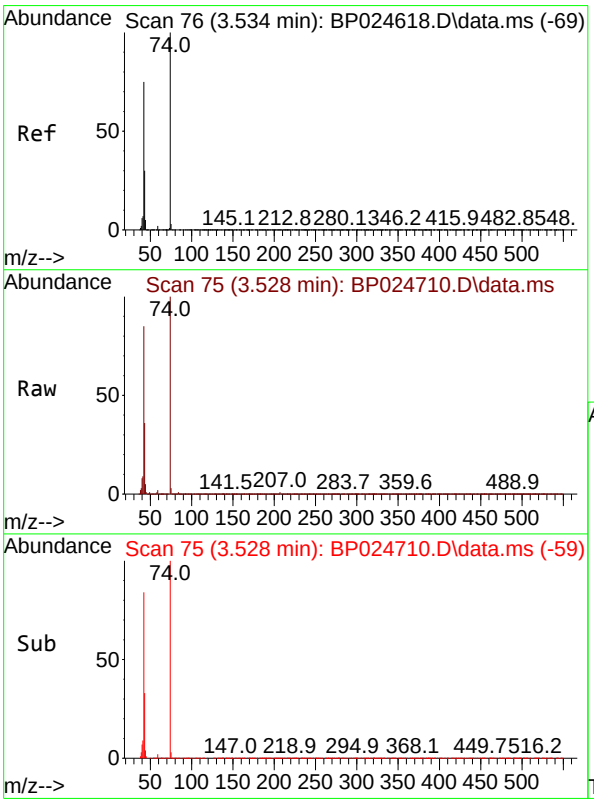
#3
Pyridine
Concen: 35.730 ng
RT: 3.617 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion: 79 Resp: 268070

Ion	Ratio	Lower	Upper
79	100		
52	67.8	50.2	75.2
51	37.0	26.8	40.2

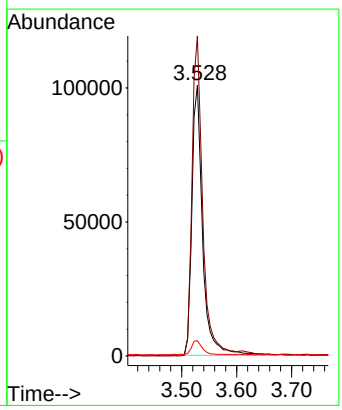


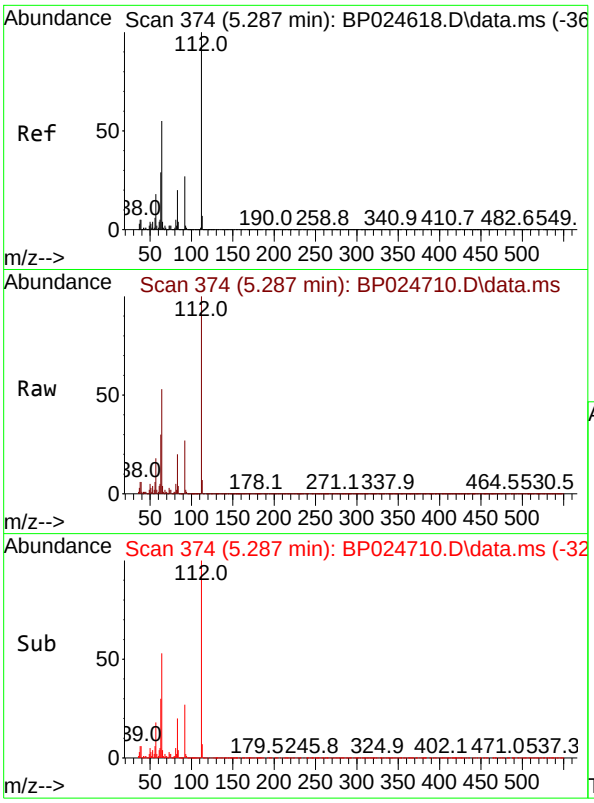


#4
n-Nitrosodimethylamine
Concen: 41.101 ng
RT: 3.528 min Scan# 75
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion: 42 Resp: 136135

Ion	Ratio	Lower	Upper
42	100		
74	118.2	106.2	159.2
44	5.6	5.4	8.2



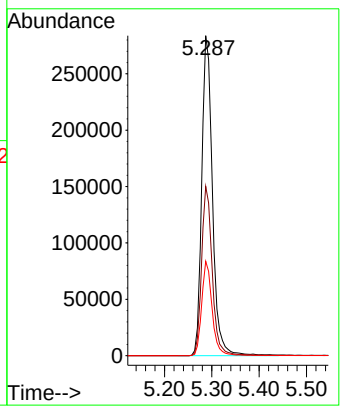


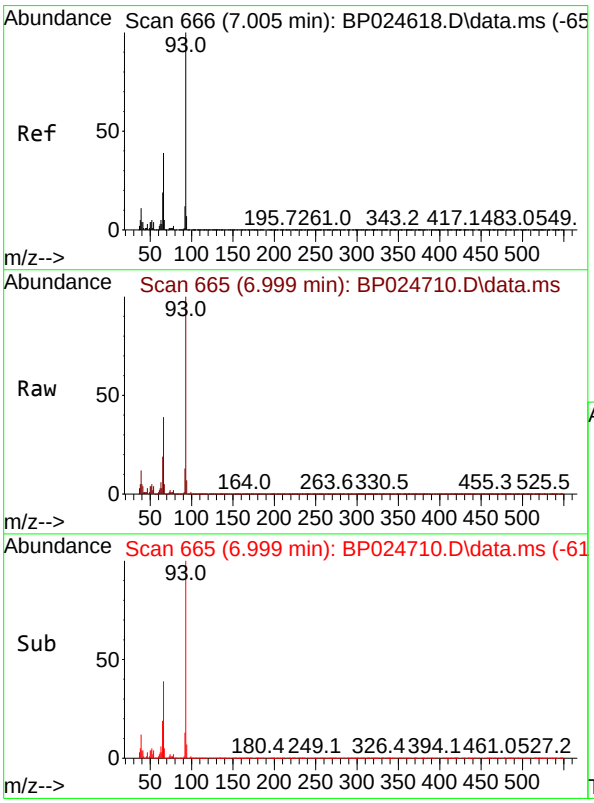
#5
2-Fluorophenol
Concen: 62.194 ng
RT: 5.287 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:112 Resp: 448154

Ion	Ratio	Lower	Upper
112	100		
64	52.9	44.1	66.1
63	29.5	23.5	35.3

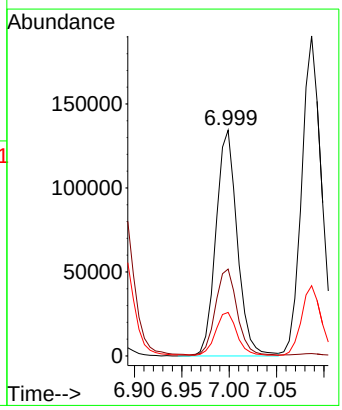


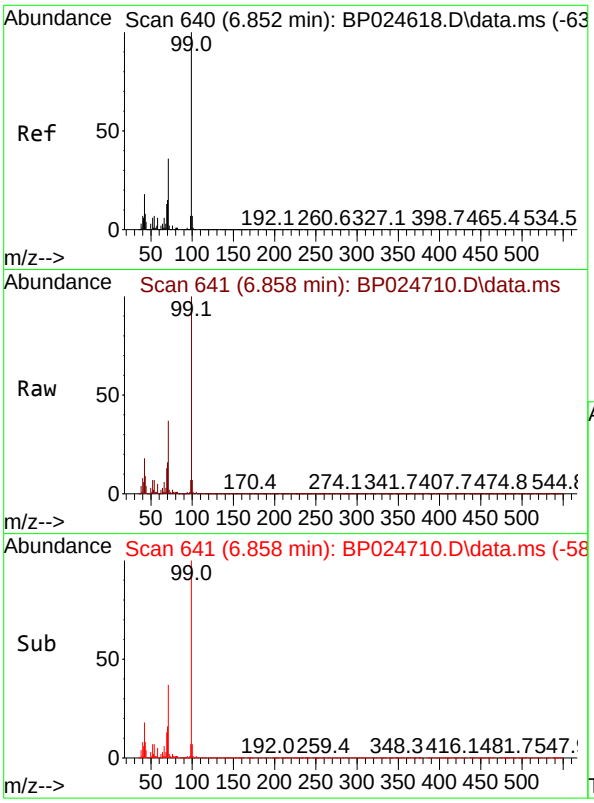


#6
Aniline
Concen: 17.730 ng
RT: 6.999 min Scan# 665
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion: 93 Resp: 210516

Ion	Ratio	Lower	Upper
93	100		
66	38.5	31.0	46.6
65	19.3	15.5	23.3



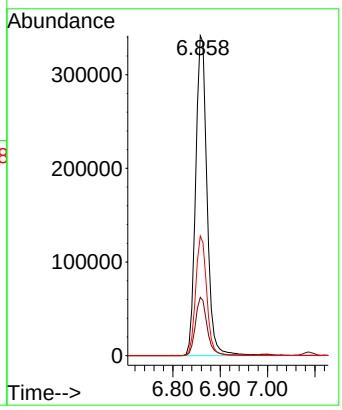


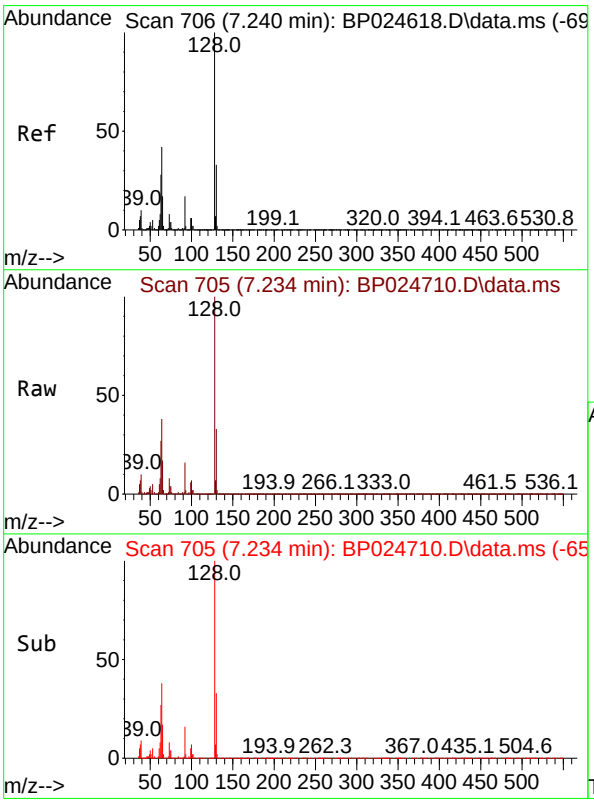
#7
Phenol-d6
Concen: 62.096 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion: 99 Resp: 571063

Ion	Ratio	Lower	Upper
99	100		
42	18.2	14.4	21.6
71	37.4	29.2	43.8

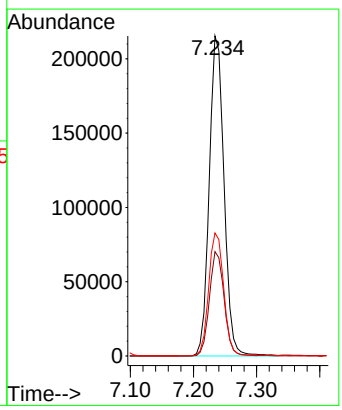


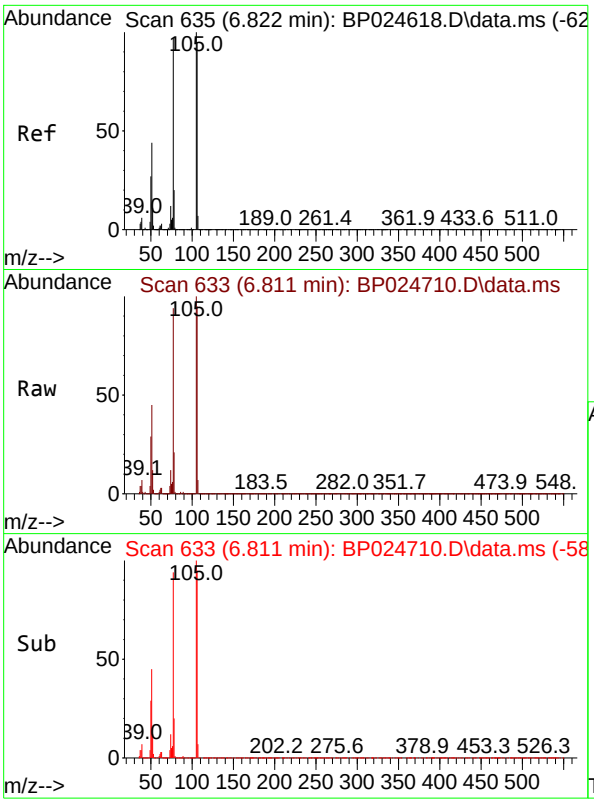


#8
2-Chlorophenol
Concen: 42.786 ng
RT: 7.234 min Scan# 705
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:128 Resp: 349992

Ion	Ratio	Lower	Upper
128	100		
130	32.6	13.0	53.0
64	38.4	22.3	62.3



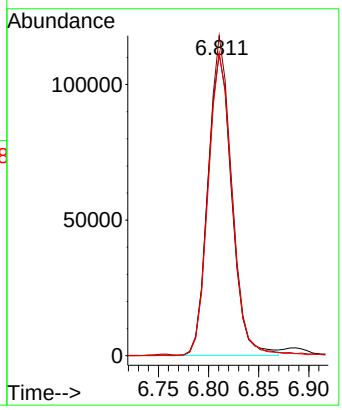


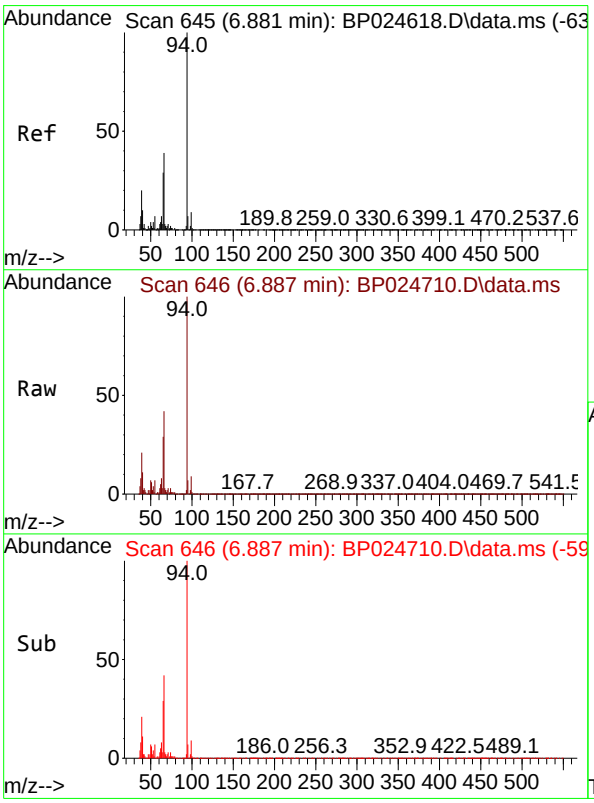
#9
Benzaldehyde
Concen: 31.002 ng
RT: 6.811 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion: 77 Resp: 184561

Ion	Ratio	Lower	Upper
77	100		
105	106.0	83.3	123.3
106	100.3	78.0	118.0

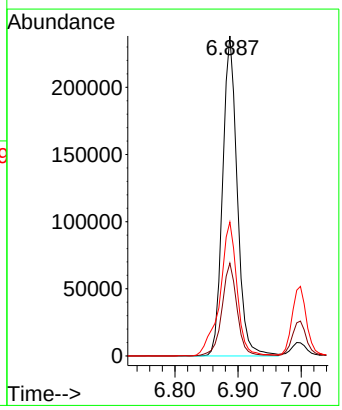


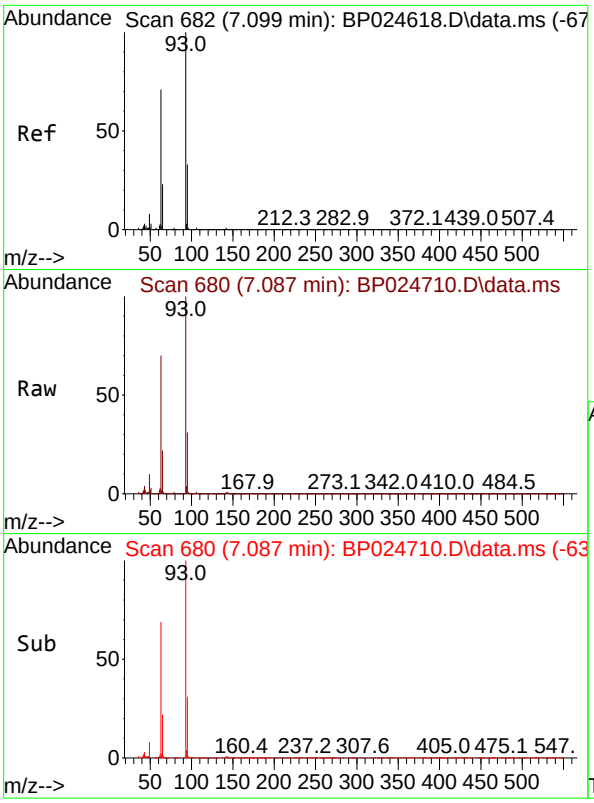


#10
Phenol
Concen: 40.356 ng
RT: 6.887 min Scan# 646
Delta R.T. 0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion: 94 Resp: 383054

Ion	Ratio	Lower	Upper
94	100		
65	29.0	8.7	48.7
66	41.8	19.4	59.4



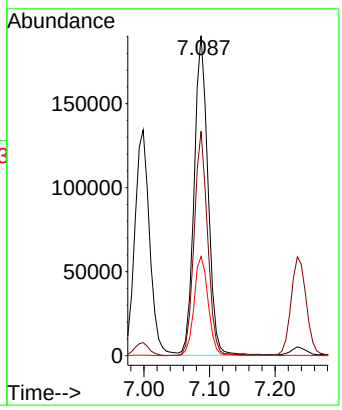


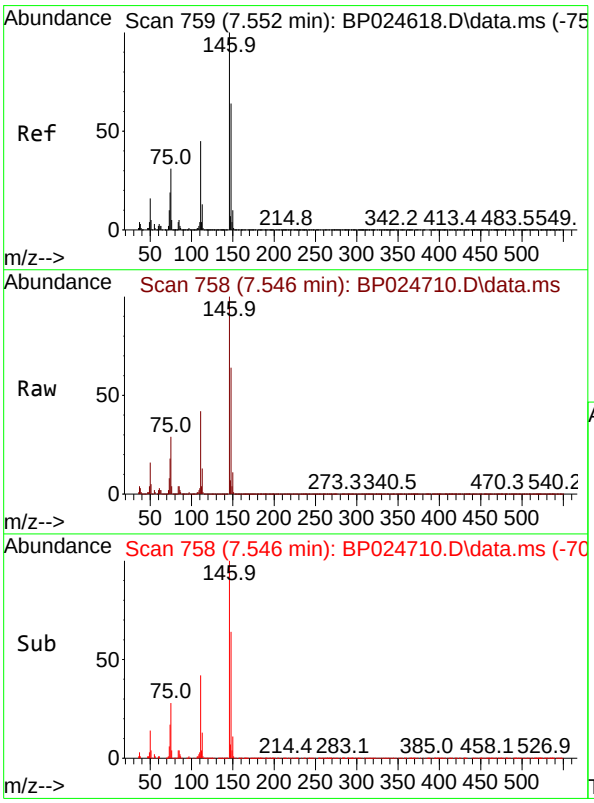
#11
bis(2-Chloroethyl)ether
Concen: 35.882 ng
RT: 7.087 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion: 93 Resp: 279863

Ion	Ratio	Lower	Upper
93	100		
63	70.2	50.6	90.6
95	31.0	12.9	52.9

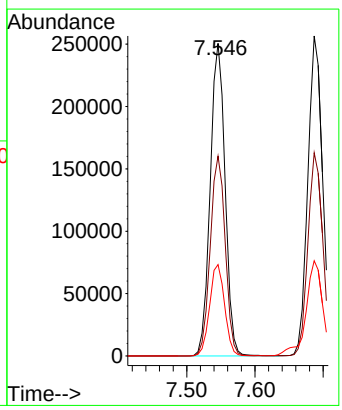


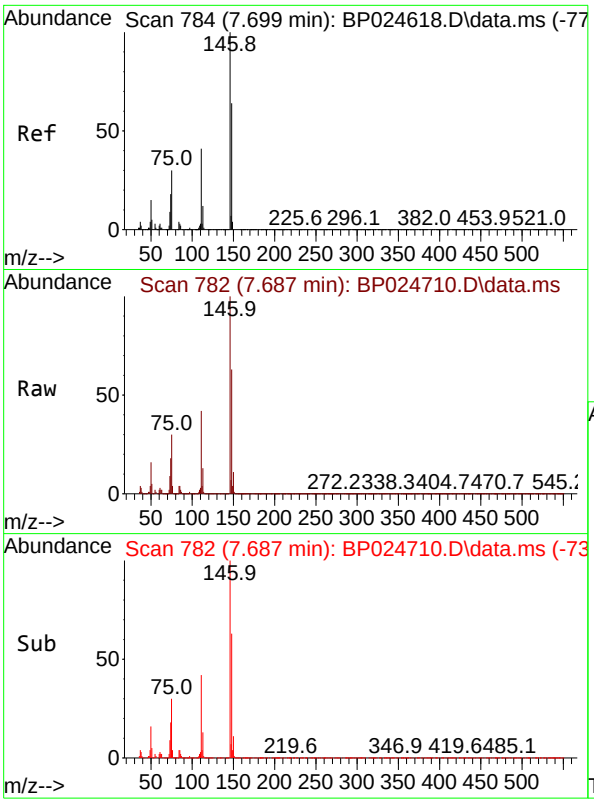


#12
1,3-Dichlorobenzene
Concen: 40.429 ng
RT: 7.546 min Scan# 758
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:146 Resp: 380485

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.4	77.2
75	29.3	25.2	37.8



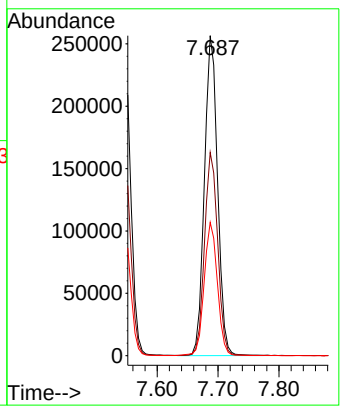


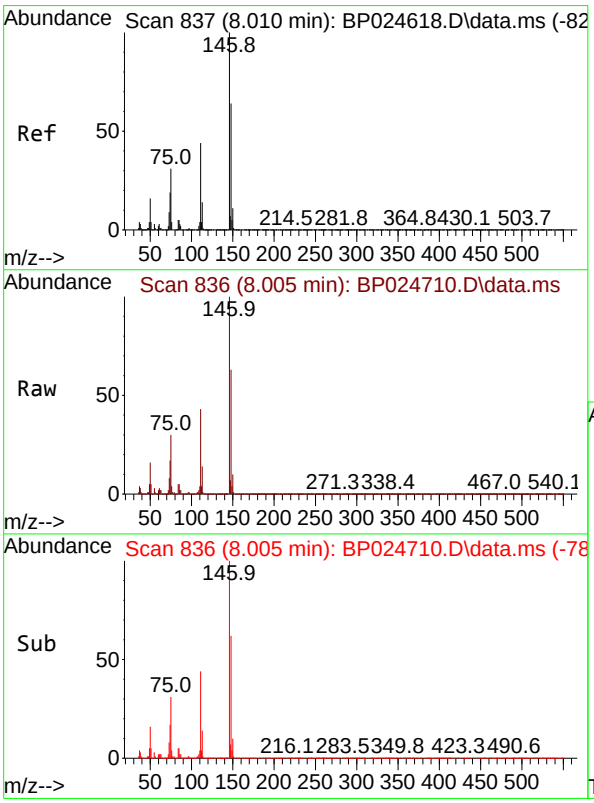
#13
1,4-Dichlorobenzene
Concen: 40.708 ng
RT: 7.687 min Scan# 7
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:146 Resp: 385317

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.0	76.6
111	41.6	33.0	49.6

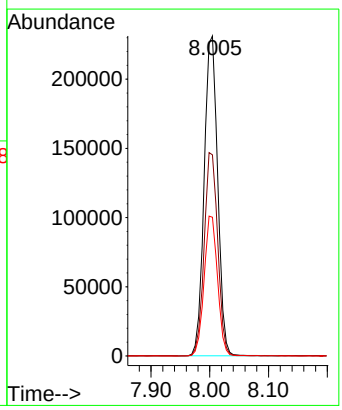


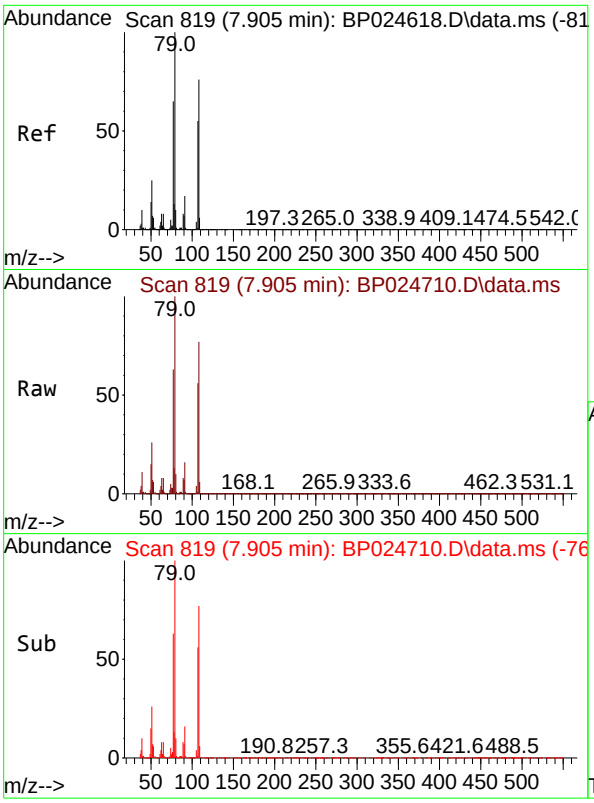


#14
1,2-Dichlorobenzene
Concen: 39.997 ng
RT: 8.005 min Scan# 836
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:146 Resp: 368905

Ion	Ratio	Lower	Upper
146	100		
148	62.8	51.0	76.4
111	43.4	35.2	52.8



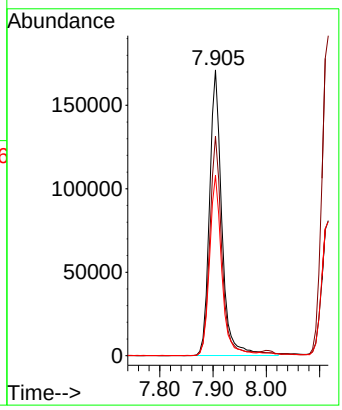


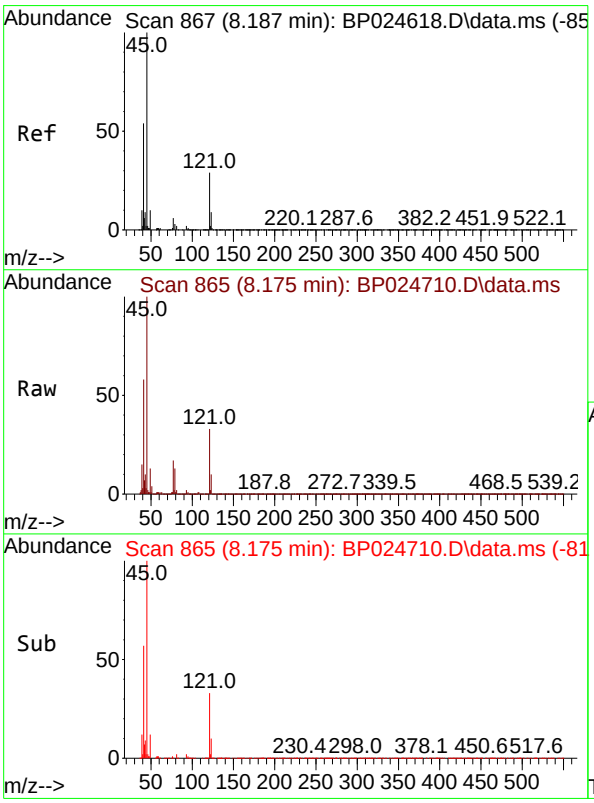
#15
Benzyl Alcohol
Concen: 39.461 ng
RT: 7.905 min Scan# 81
Delta R.T. 0.000 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion: 79 Resp: 275775

Ion	Ratio	Lower	Upper
79	100		
108	76.8	60.8	91.2
77	63.1	51.9	77.9

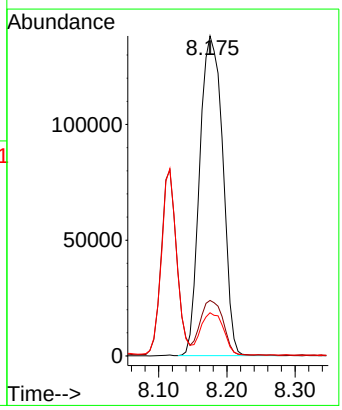


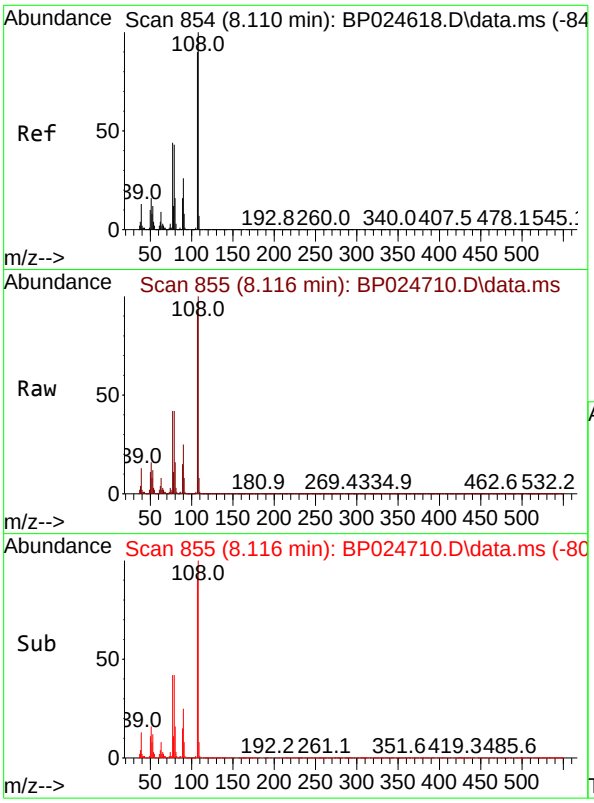


#16
2,2'-oxybis(1-Chloropropane)
Concen: 34.732 ng
RT: 8.175 min Scan# 865
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion: 45 Resp: 324413

Ion	Ratio	Lower	Upper
45	100		
77	17.4	0.0	37.7
79	13.5	0.0	34.0



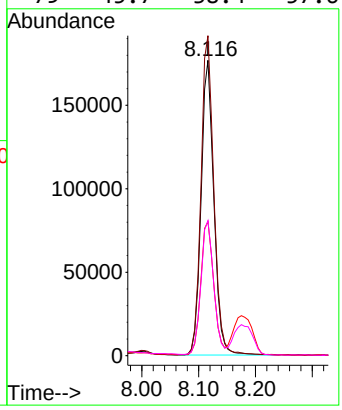


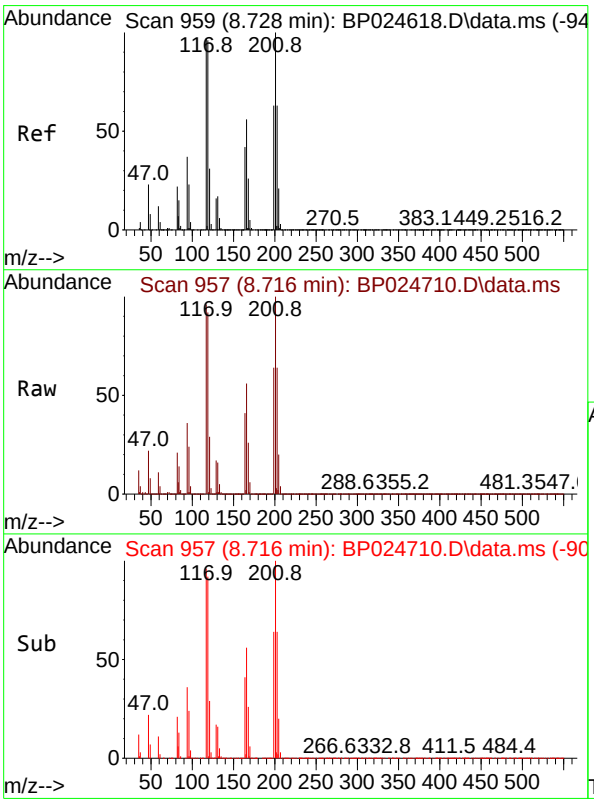
#17
2-Methylphenol
Concen: 40.369 ng
RT: 8.116 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:107 Resp: 274824

Ion	Ratio	Lower	Upper
107	100		
108	108.4	88.9	133.3
77	45.4	39.0	58.6
79	45.7	38.4	57.6

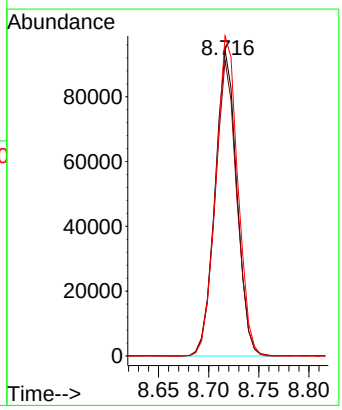


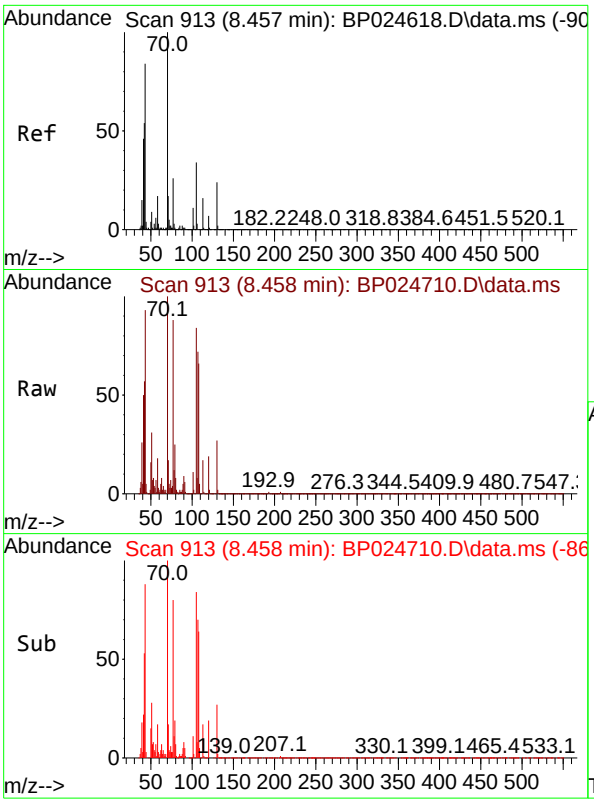


#18
Hexachloroethane
Concen: 39.167 ng
RT: 8.716 min Scan# 957
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:117 Resp: 142069

Ion	Ratio	Lower	Upper
117	100		
119	96.6	79.4	119.0
201	104.6	82.7	124.1



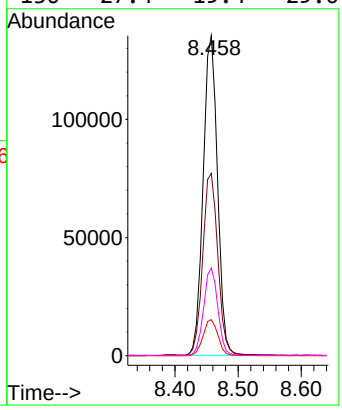


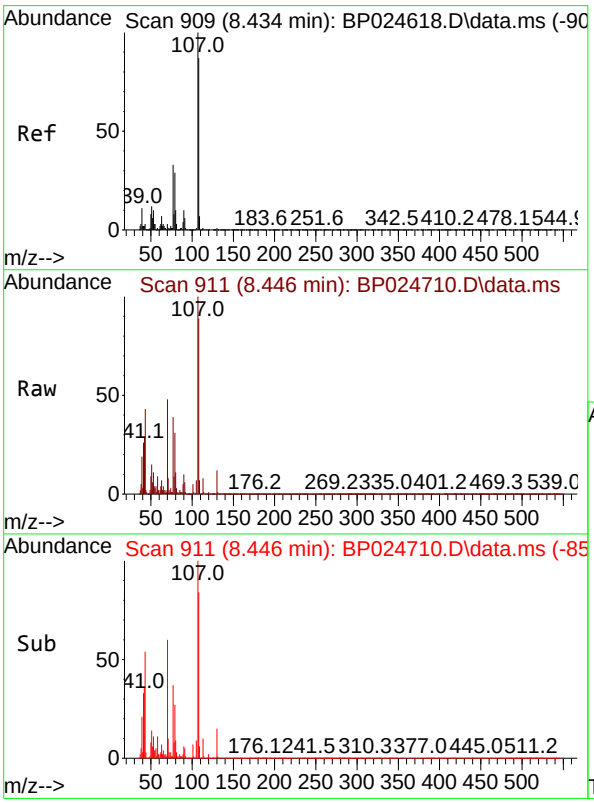
#19
n-Nitroso-di-n-propylamine
Concen: 33.653 ng
RT: 8.458 min Scan# 91
Delta R.T. 0.000 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion: 70 Resp: 214085

Ion	Ratio	Lower	Upper
70	100		
42	57.0	43.0	64.6
101	11.3	8.7	13.1
130	27.4	19.4	29.0

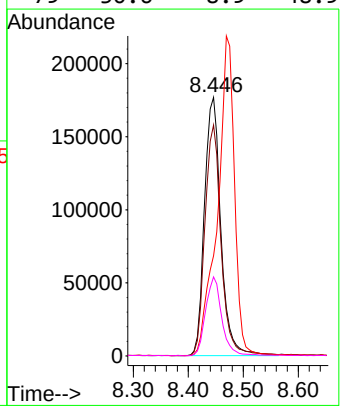


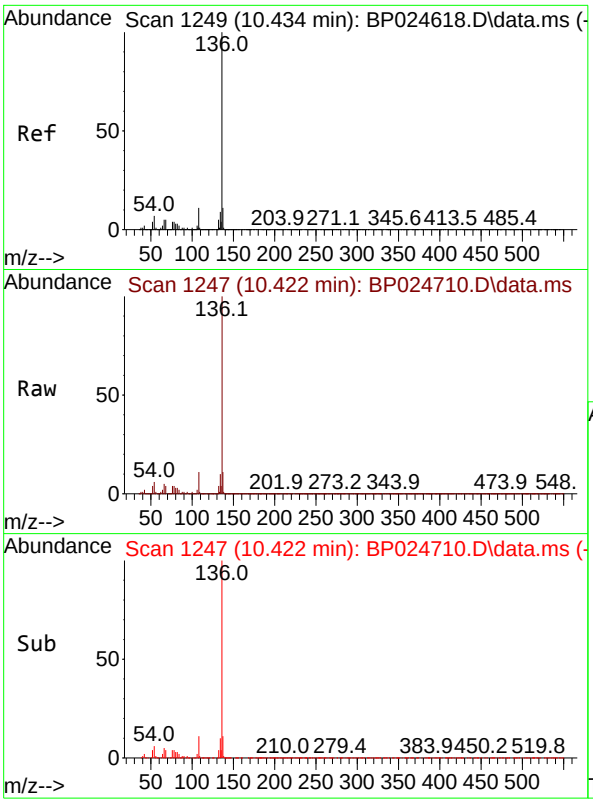


#20
3+4-Methylphenols
Concen: 39.530 ng
RT: 8.446 min Scan# 911
Delta R.T. 0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:107 Resp: 366073

Ion	Ratio	Lower	Upper
107	100		
108	89.3	66.7	106.7
77	38.7	13.1	53.1
79	30.6	8.9	48.9



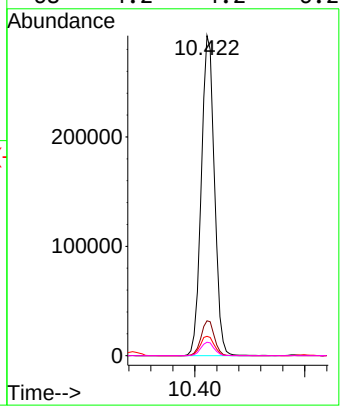


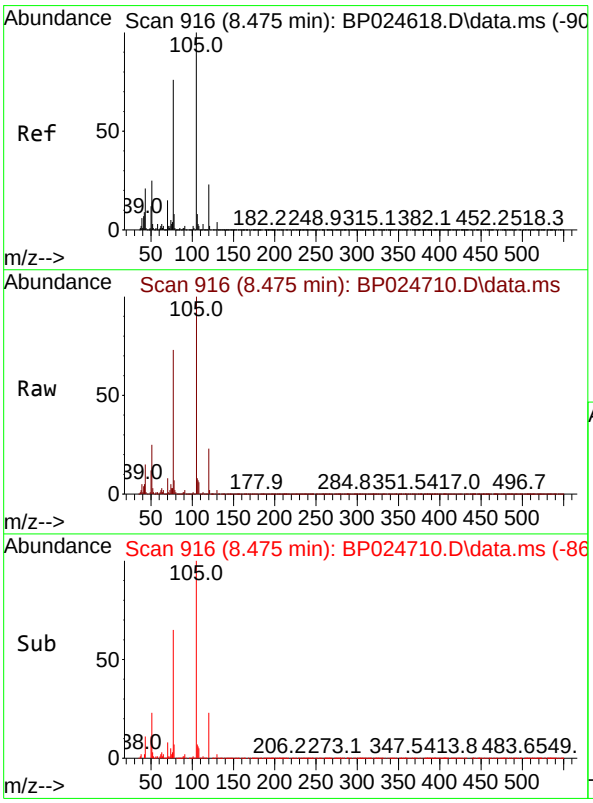
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:136 Resp: 485383

Ion	Ratio	Lower	Upper
136	100		
137	10.9	8.8	13.2
54	6.1	5.5	8.3
68	4.2	4.2	6.2

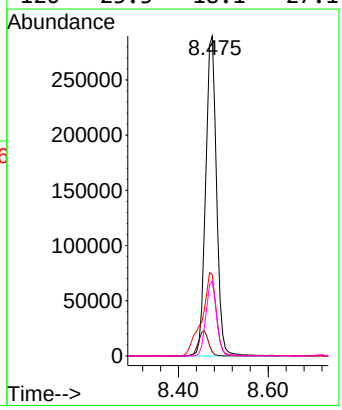


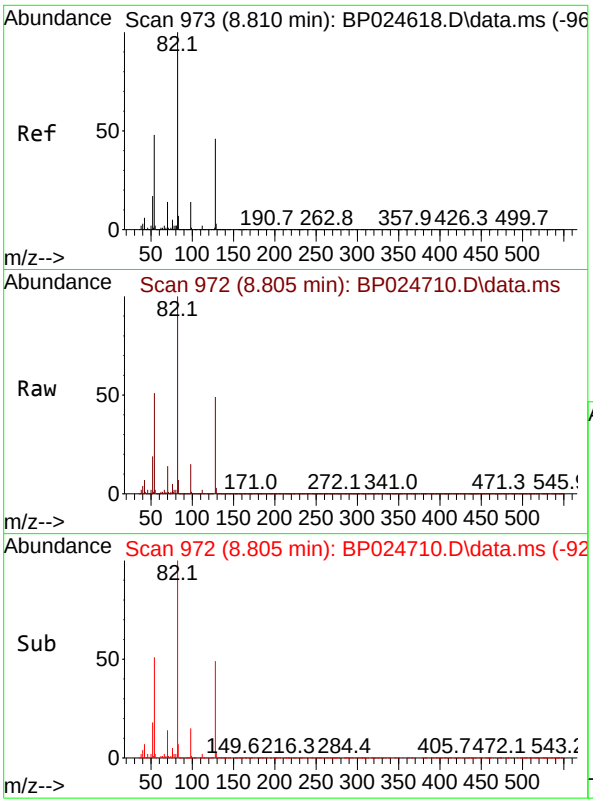


#22
Acetophenone
Concen: 40.180 ng
RT: 8.475 min Scan# 916
Delta R.T. 0.000 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:105 Resp: 487168

Ion	Ratio	Lower	Upper
105	100		
71	1.3	2.0	3.0#
51	25.4	20.4	30.6
120	23.3	18.1	27.1



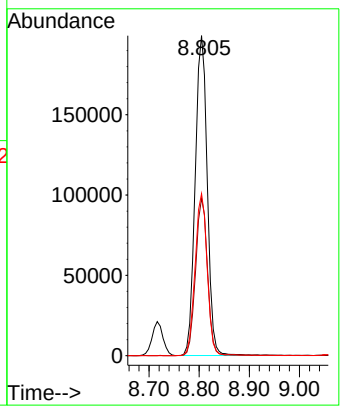


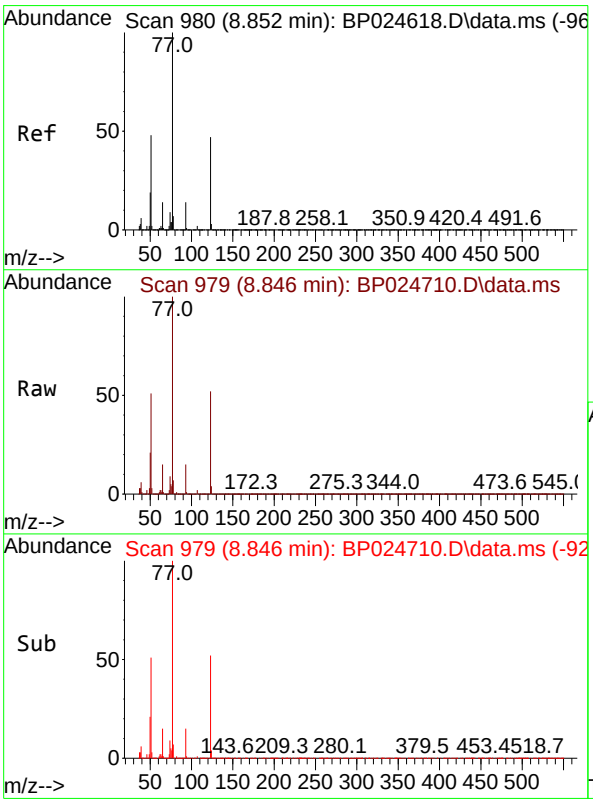
#23
Nitrobenzene-d5
Concen: 34.644 ng
RT: 8.805 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion: 82 Resp: 332805

Ion	Ratio	Lower	Upper
82	100		
128	49.2	37.0	55.4
54	50.6	38.7	58.1

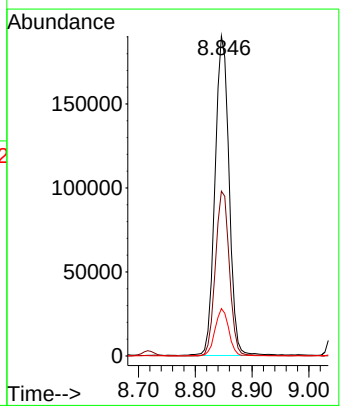


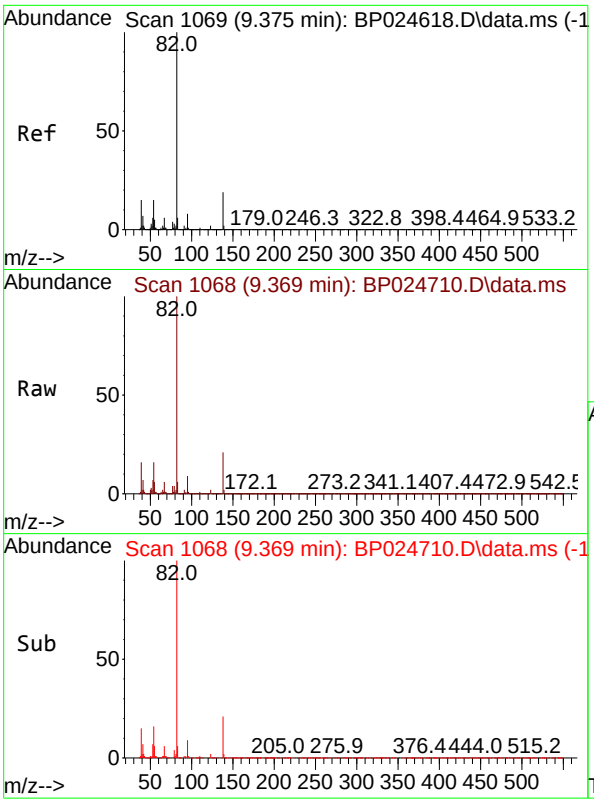


#24
Nitrobenzene
Concen: 38.765 ng
RT: 8.846 min Scan# 979
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion: 77 Resp: 327715

Ion	Ratio	Lower	Upper
77	100		
123	51.5	37.4	56.0
65	14.8	11.3	16.9



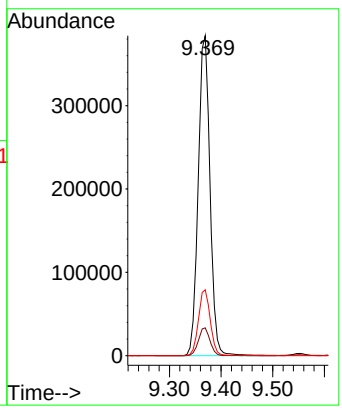


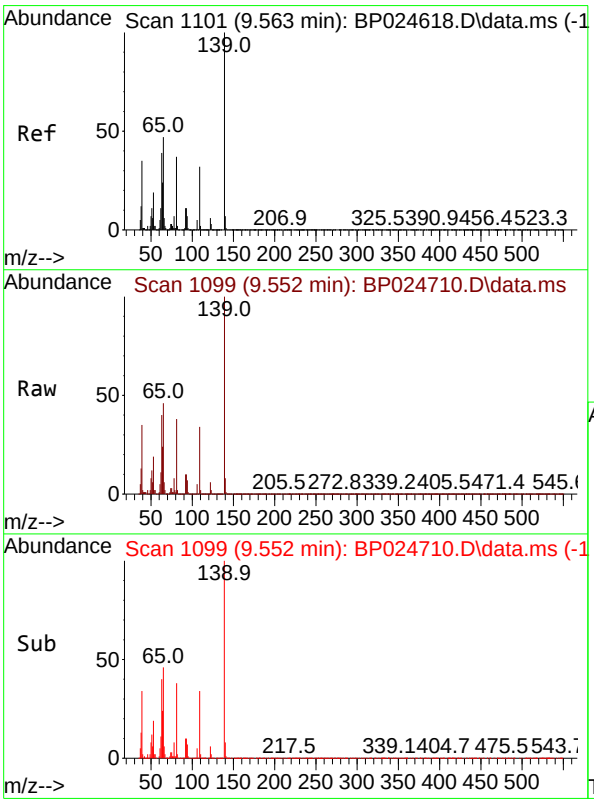
#25
Isophorone
Concen: 36.348 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion: 82 Resp: 605696

Ion	Ratio	Lower	Upper
82	100		
95	8.7	6.3	9.5
138	20.6	15.3	22.9

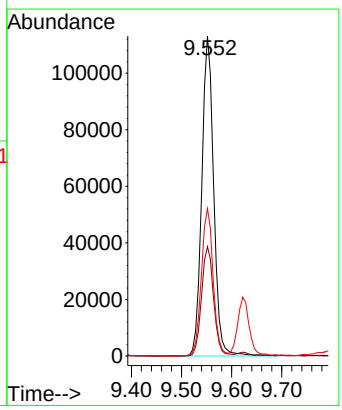


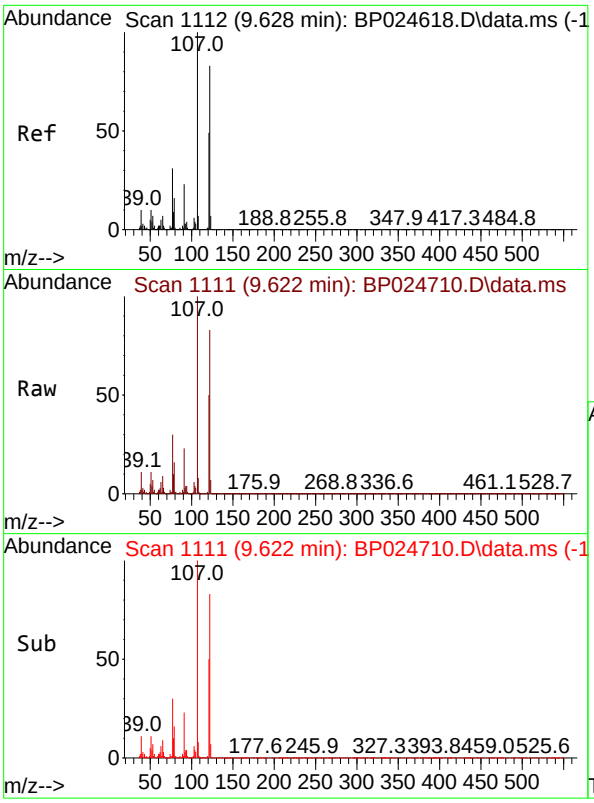


#26
2-Nitrophenol
Concen: 45.142 ng
RT: 9.552 min Scan# 1099
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:139 Resp: 187001

Ion	Ratio	Lower	Upper
139	100		
109	34.1	25.9	38.9
65	46.1	37.9	56.9



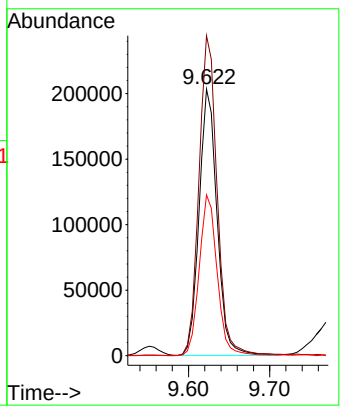


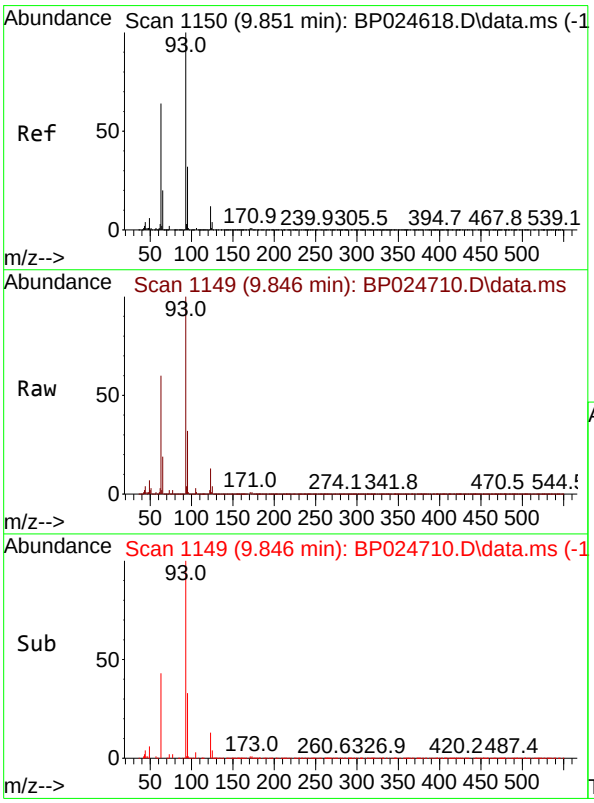
#27
2,4-Dimethylphenol
Concen: 42.626 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:122 Resp: 311328

Ion	Ratio	Lower	Upper
122	100		
107	120.1	96.2	144.2
121	60.4	47.6	71.4

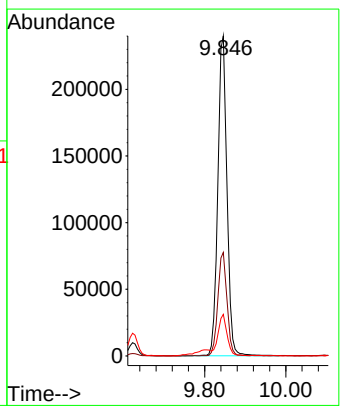


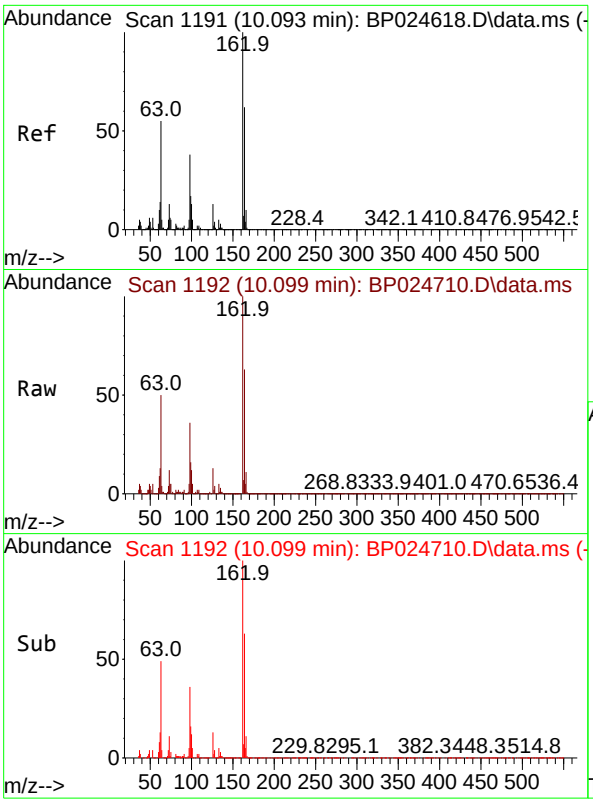


#28
bis(2-Chloroethoxy)methane
Concen: 37.626 ng
RT: 9.846 min Scan# 1149
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion: 93 Resp: 374592

Ion	Ratio	Lower	Upper
93	100		
95	32.4	25.5	38.3
123	13.0	9.7	14.5



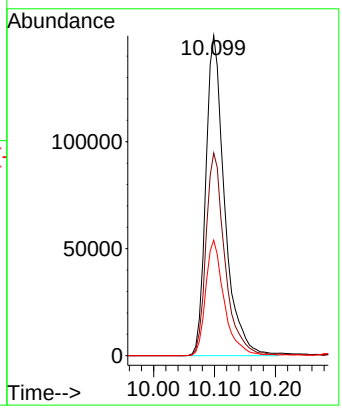


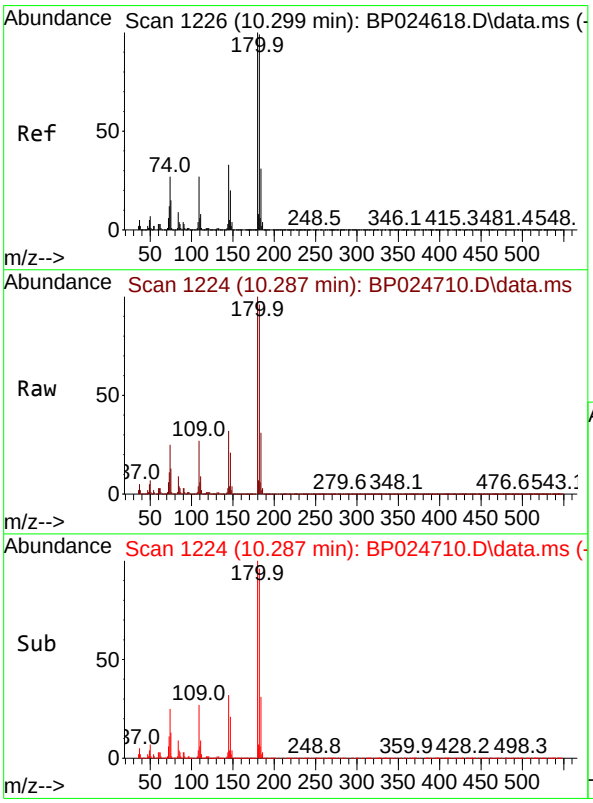
#29
2,4-Dichlorophenol
Concen: 45.302 ng
RT: 10.099 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:162 Resp: 320635

Ion	Ratio	Lower	Upper
162	100		
164	63.3	42.3	82.3
98	36.1	18.4	58.4

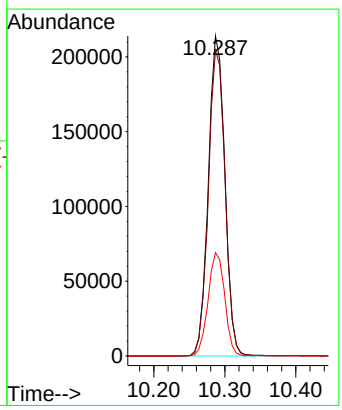


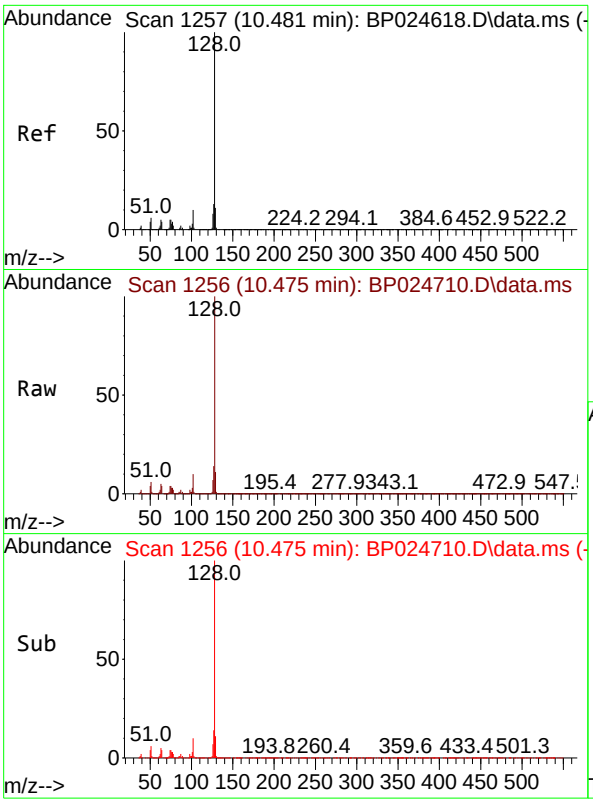


#30
1,2,4-Trichlorobenzene
Concen: 43.450 ng
RT: 10.287 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:180 Resp: 346542

Ion	Ratio	Lower	Upper
180	100		
182	95.6	79.0	118.4
145	32.3	26.6	39.8



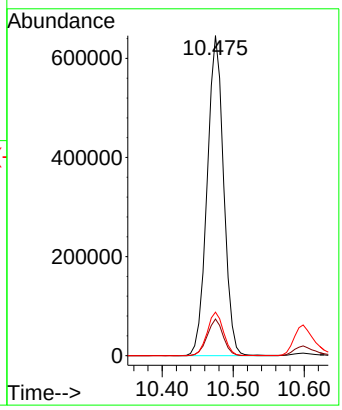


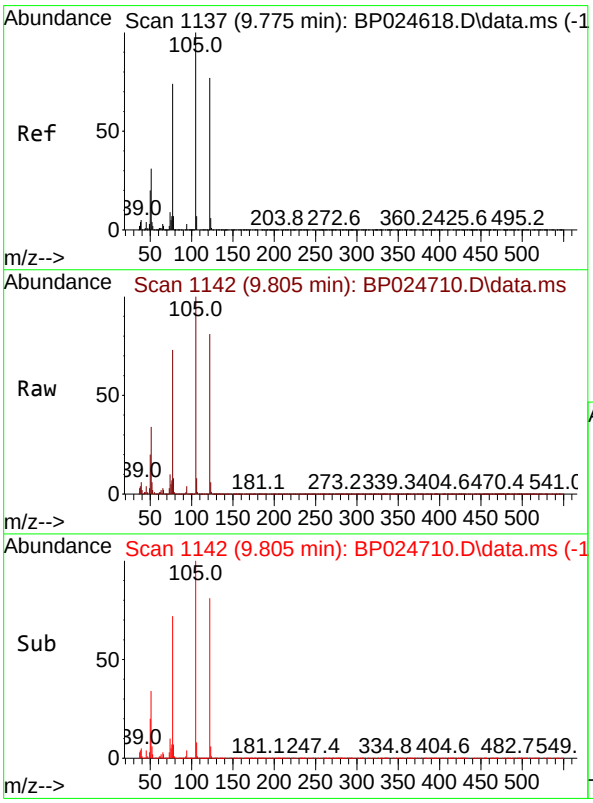
#31
Naphthalene
Concen: 41.387 ng
RT: 10.475 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:128 Resp: 1041017

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.6	10.7	16.1

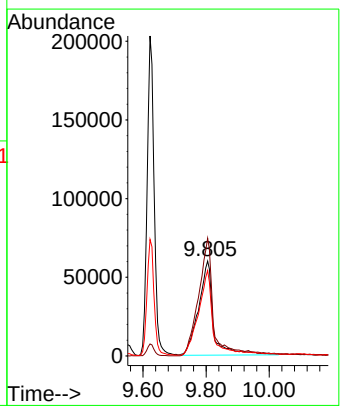


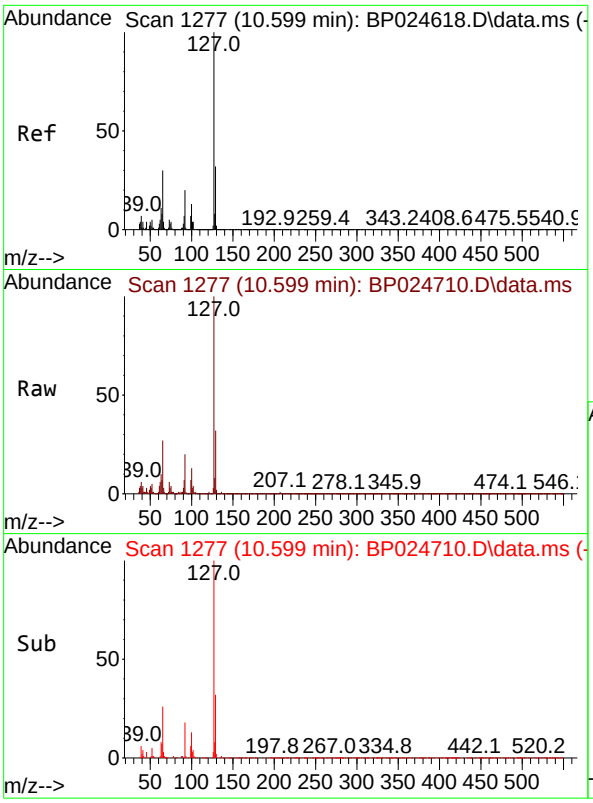


#32
Benzoic acid
Concen: 39.962 ng
RT: 9.805 min Scan# 1142
Delta R.T. 0.030 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:122 Resp: 195656

Ion	Ratio	Lower	Upper
122	100		
105	124.2	106.9	146.9
77	90.1	75.1	115.1



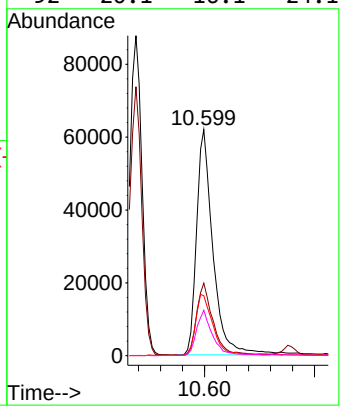


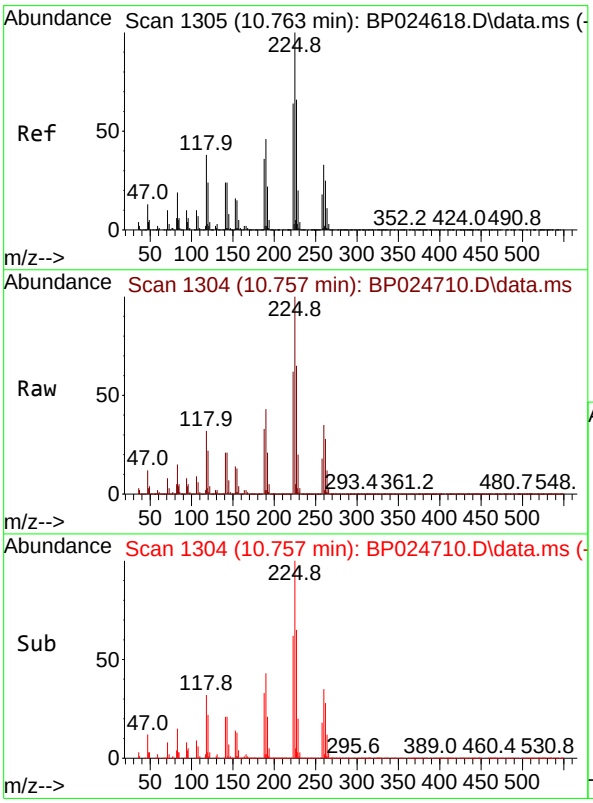
#33
4-Chloroaniline
Concen: 12.632 ng
RT: 10.599 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:127 Resp: 128216

Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.8	38.6
65	26.6	23.9	35.9
92	20.1	16.1	24.1

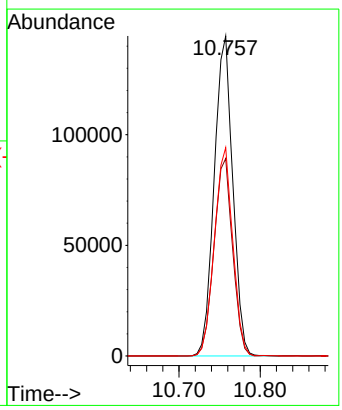


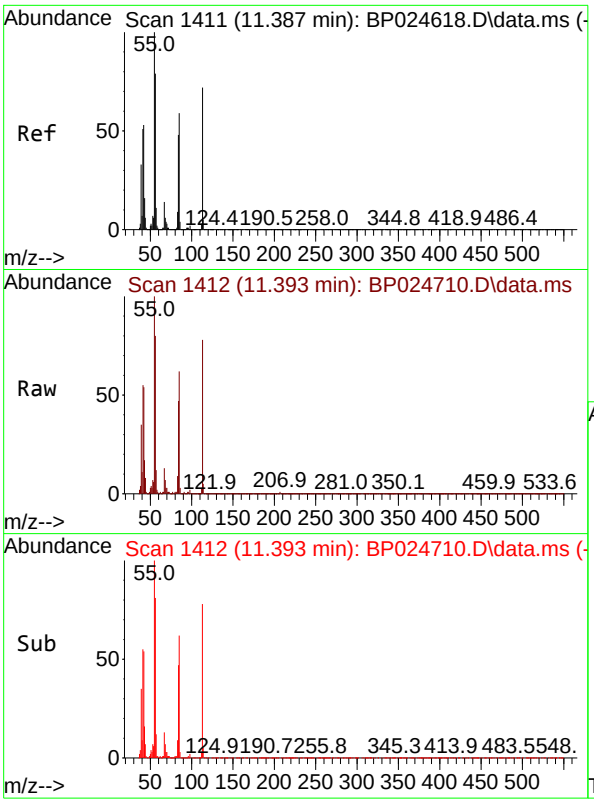


#34
Hexachlorobutadiene
Concen: 44.342 ng
RT: 10.757 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:225 Resp: 229103

Ion	Ratio	Lower	Upper
225	100		
223	61.7	51.0	76.6
227	65.1	53.1	79.7



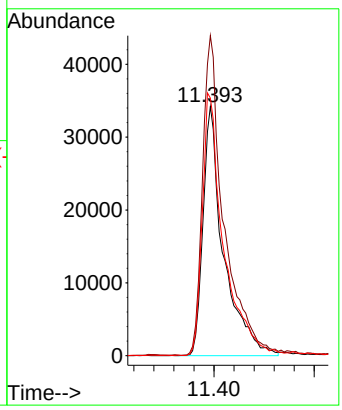


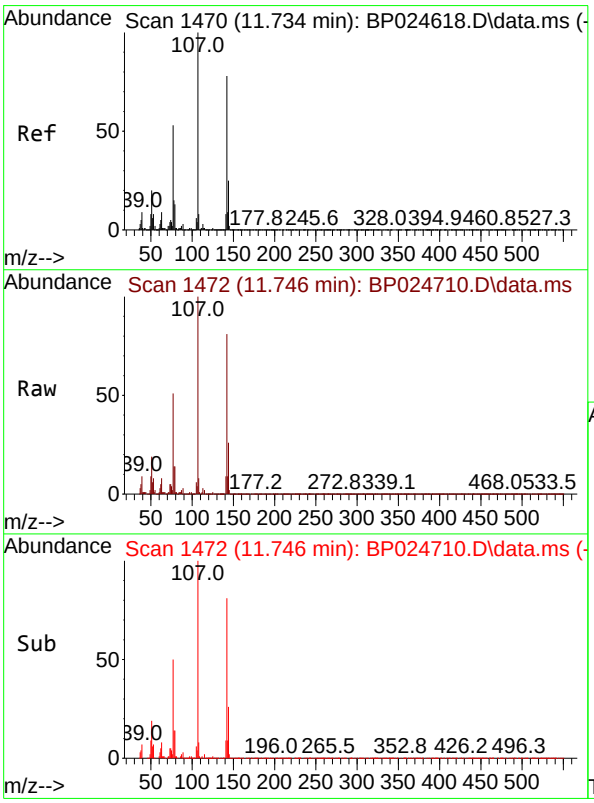
#35
Caprolactam
Concen: 37.982 ng
RT: 11.393 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:113 Resp: 97262

Ion	Ratio	Lower	Upper
113	100		
55	128.5	119.0	159.0
56	103.4	90.3	130.3

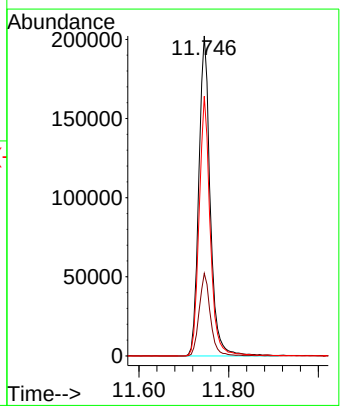


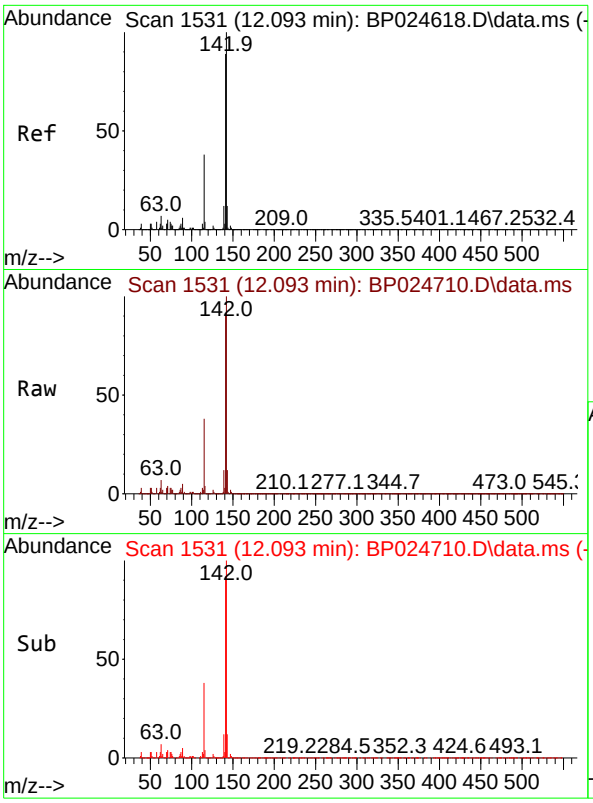


#36
4-Chloro-3-methylphenol
Concen: 41.292 ng
RT: 11.746 min Scan# 1472
Delta R.T. 0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:107 Resp: 356396

Ion	Ratio	Lower	Upper
107	100		
144	25.8	20.1	30.1
142	81.2	62.1	93.1



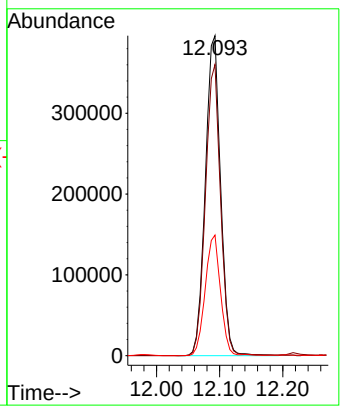


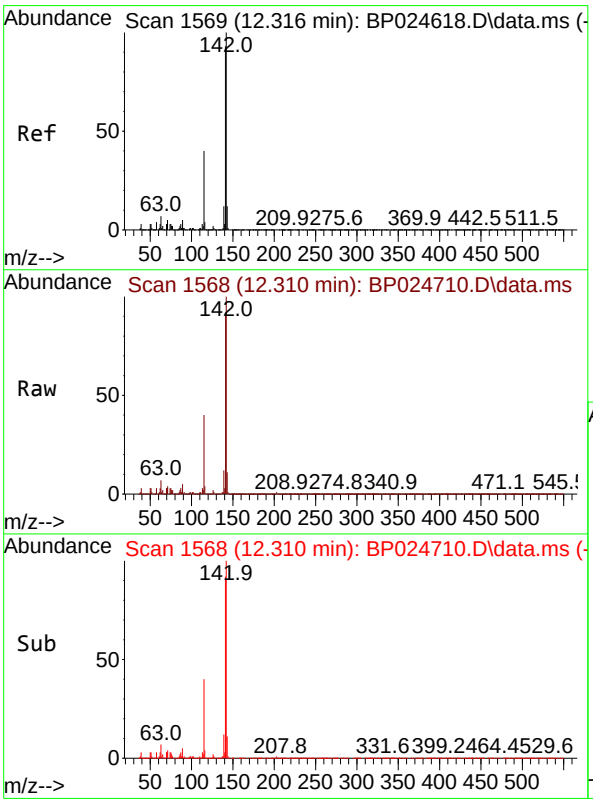
#37
2-Methylnaphthalene
Concen: 40.668 ng
RT: 12.093 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:142 Resp: 662361

Ion	Ratio	Lower	Upper
142	100		
141	91.0	71.2	106.8
115	37.7	30.6	46.0

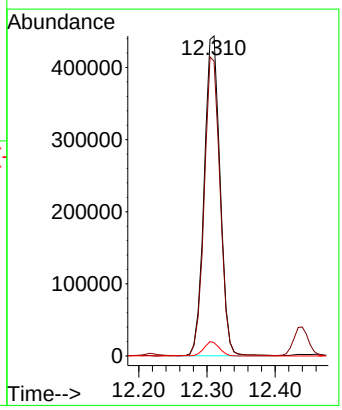


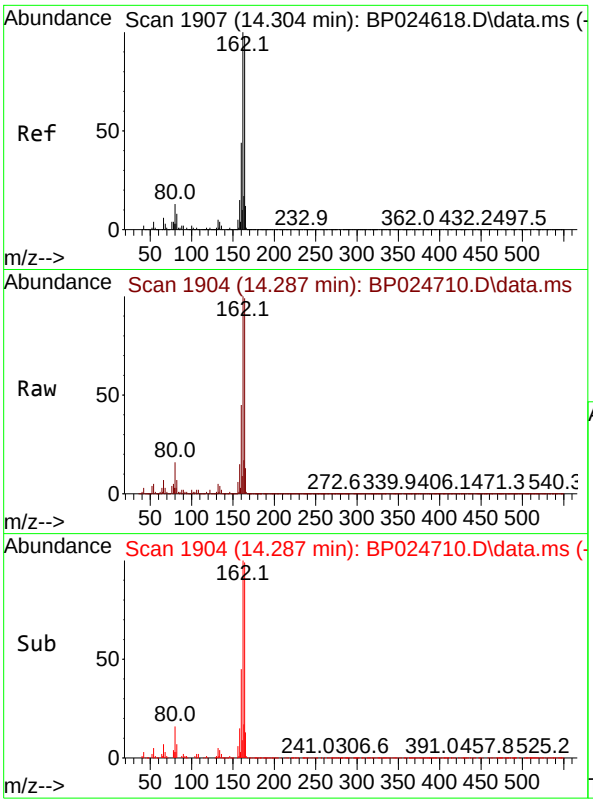


#38
1-Methylnaphthalene
Concen: 41.033 ng
RT: 12.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:142 Resp: 715055

Ion	Ratio	Lower	Upper
142	100		
141	92.2	74.7	112.1
116	4.2	3.4	5.2



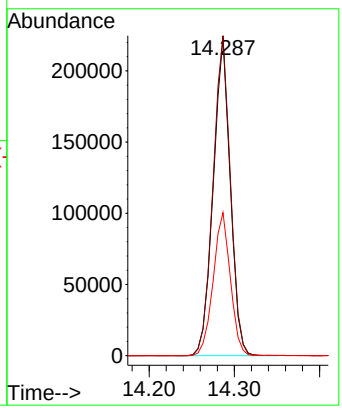


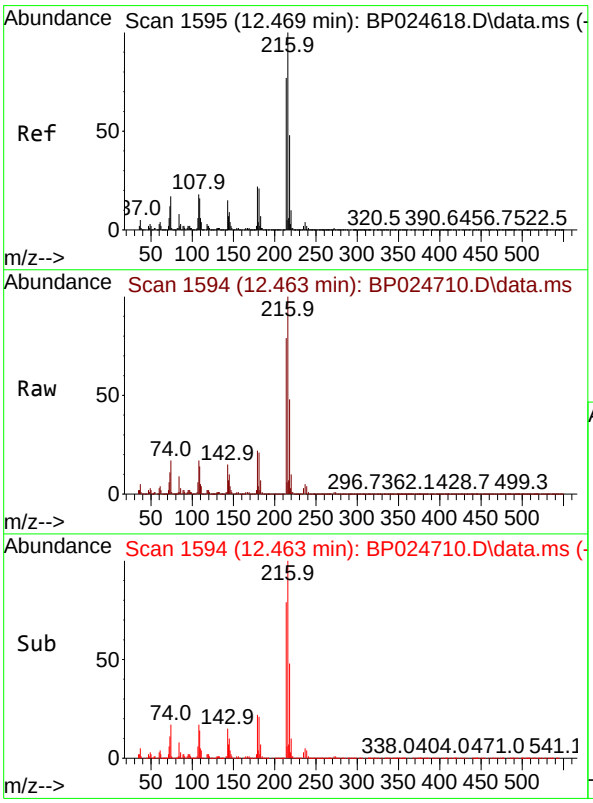
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.287 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:164 Resp: 309601

Ion	Ratio	Lower	Upper
164	100		
162	100.6	81.8	122.6
160	45.0	36.3	54.5

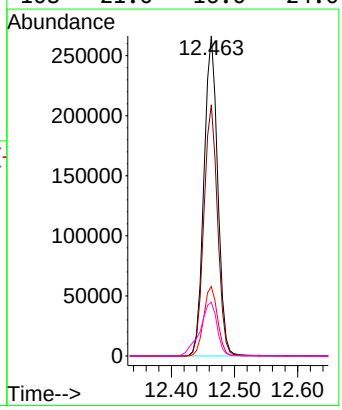


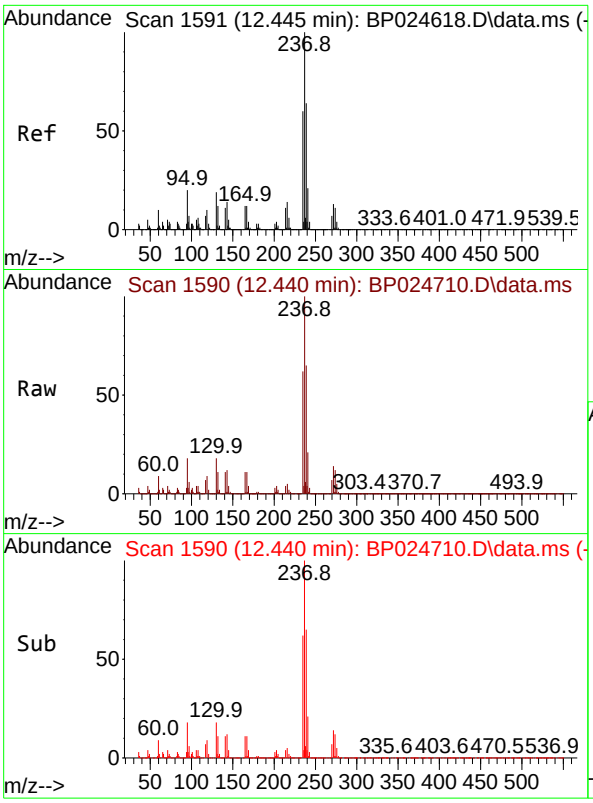


#40
1,2,4,5-Tetrachlorobenzene
Concen: 44.630 ng
RT: 12.463 min Scan# 1594
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:216 Resp: 401244

Ion	Ratio	Lower	Upper
216	100		
214	78.3	62.3	93.5
179	22.0	17.7	26.5
108	21.0	16.0	24.0



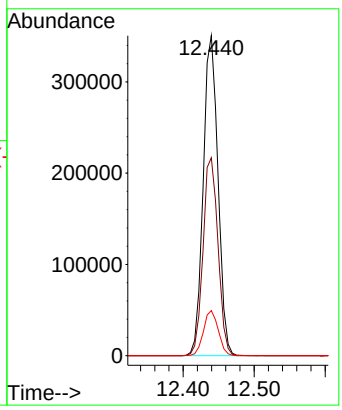


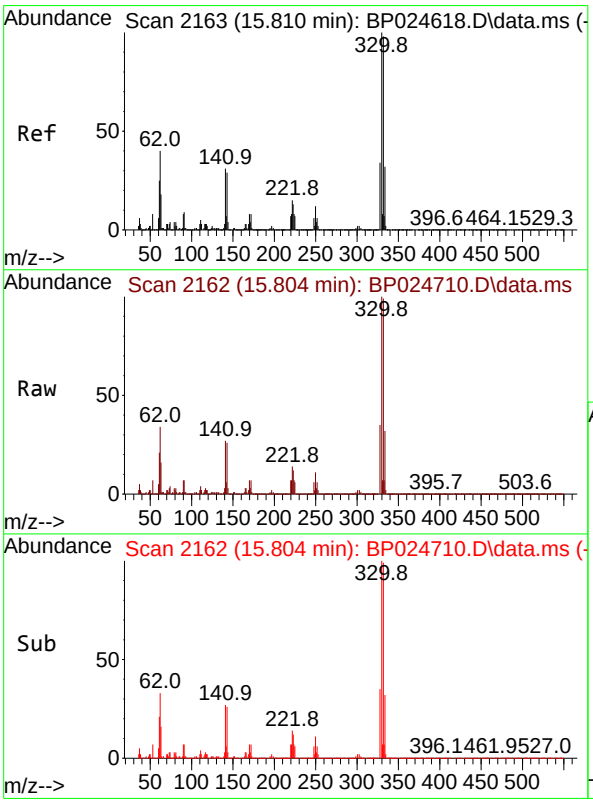
#41
Hexachlorocyclopentadiene
Concen: 93.013 ng
RT: 12.440 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:237 Resp: 507060

Ion	Ratio	Lower	Upper
237	100		
235	61.8	39.9	79.9
272	14.1	0.0	33.2

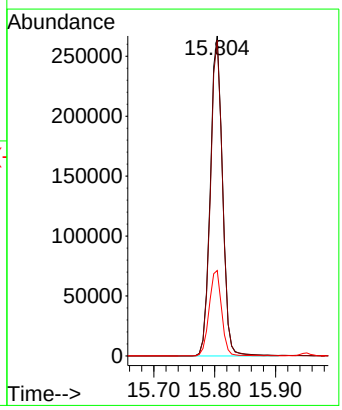


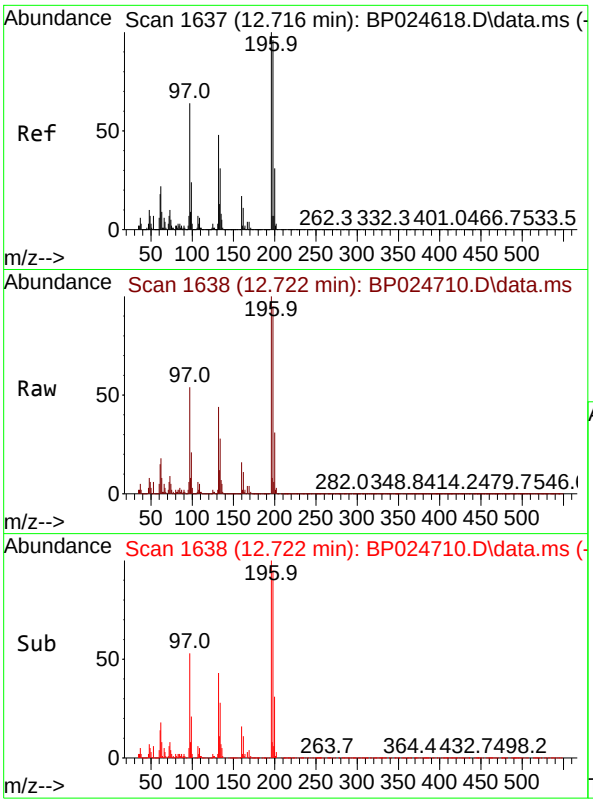


#42
2,4,6-Tribromophenol
Concen: 70.647 ng
RT: 15.804 min Scan# 2162
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:330 Resp: 370801

Ion	Ratio	Lower	Upper
330	100		
332	98.2	78.2	117.4
141	27.3	24.3	36.5



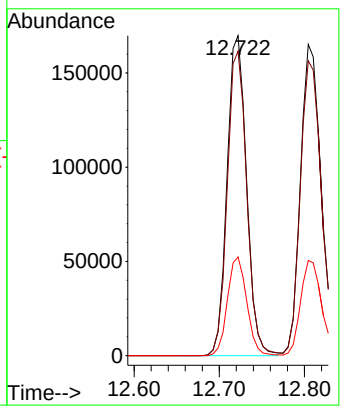


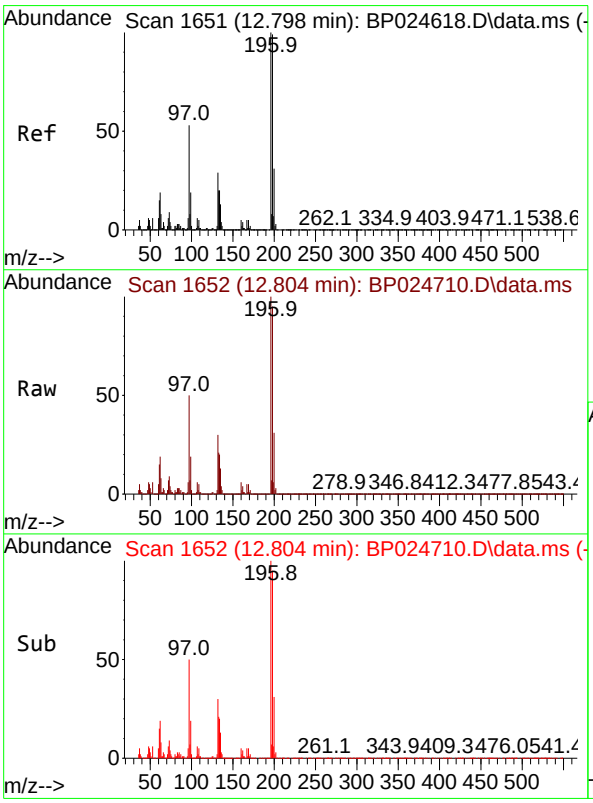
#43
2,4,6-Trichlorophenol
Concen: 46.384 ng
RT: 12.722 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:196 Resp: 270104

Ion	Ratio	Lower	Upper
196	100		
198	95.1	76.9	115.3
200	30.8	25.2	37.8

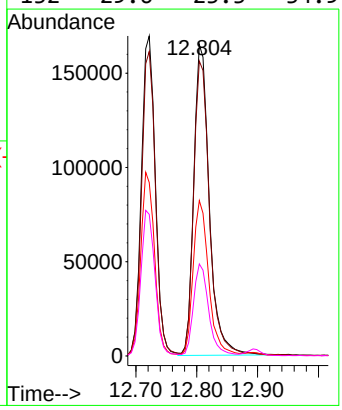


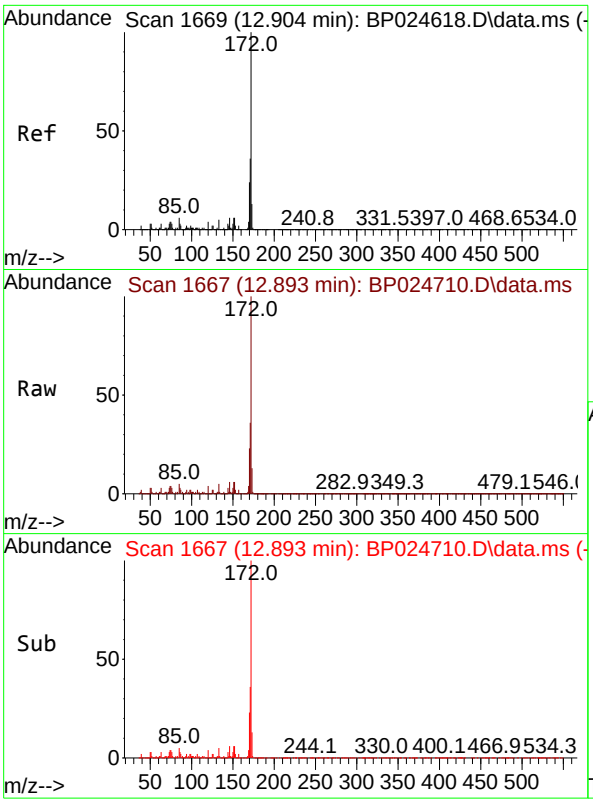


#44
2,4,5-Trichlorophenol
Concen: 45.238 ng
RT: 12.804 min Scan# 1652
Delta R.T. 0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:196 Resp: 293230

Ion	Ratio	Lower	Upper
196	100		
198	94.7	79.2	118.8
97	49.9	42.3	63.5
132	29.6	23.3	34.9



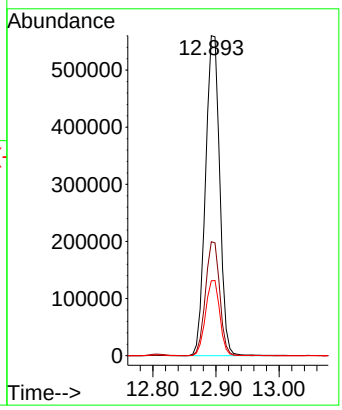


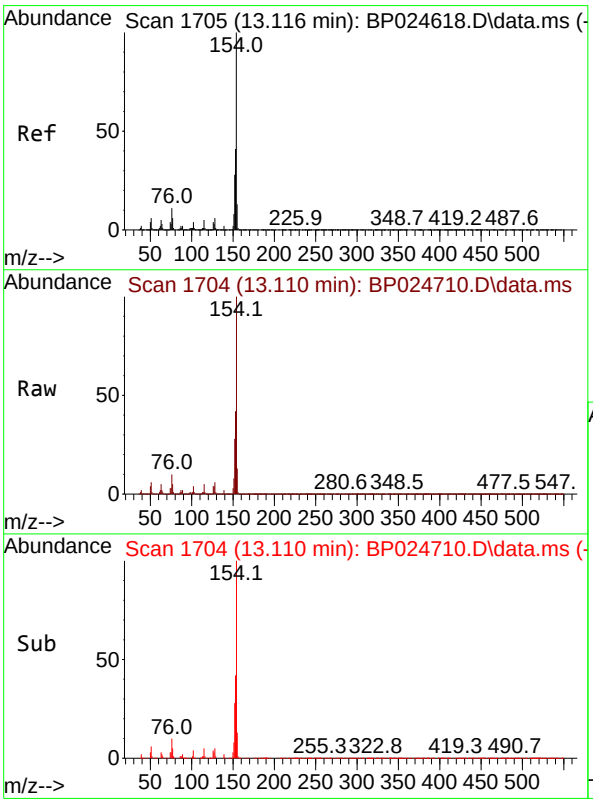
#45
2-Fluorobiphenyl
Concen: 37.024 ng
RT: 12.893 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:172 Resp: 874938

Ion	Ratio	Lower	Upper
172	100		
171	35.6	28.8	43.2
170	23.4	18.8	28.2

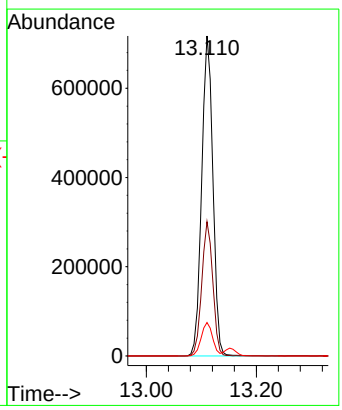


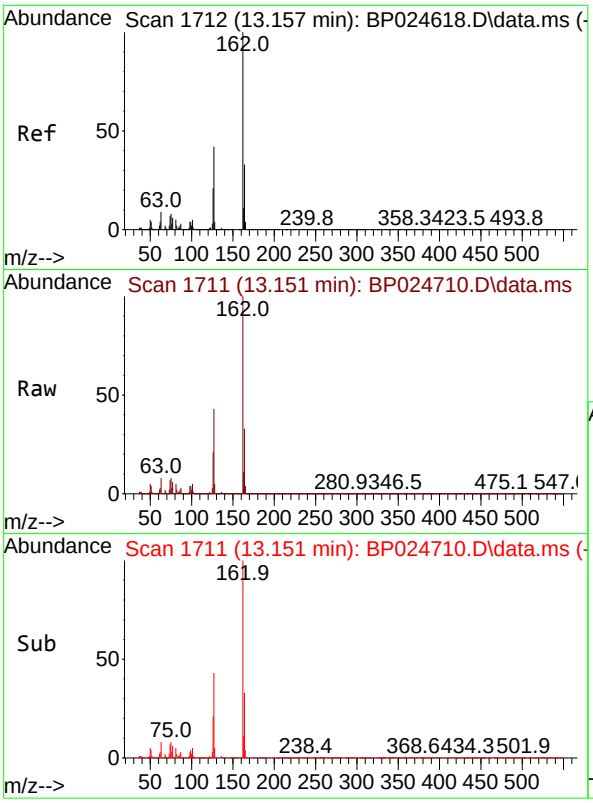


#46
1,1'-Biphenyl
Concen: 44.405 ng
RT: 13.110 min Scan# 1704
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:154 Resp: 1016109

Ion	Ratio	Lower	Upper
154	100		
153	41.9	21.0	61.0
76	10.4	0.0	31.5



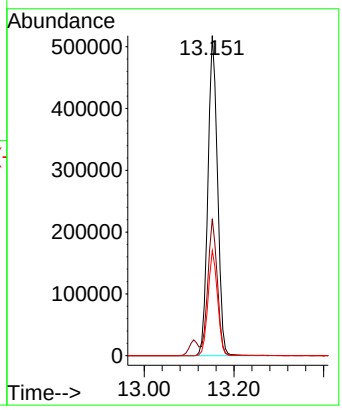


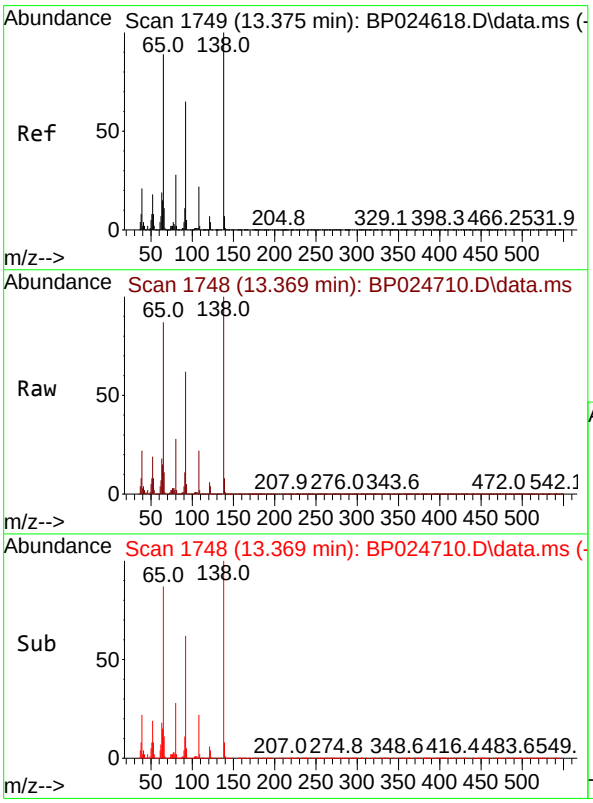
#47
2-Chloronaphthalene
Concen: 43.998 ng
RT: 13.151 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:162 Resp: 767652

Ion	Ratio	Lower	Upper
162	100		
127	42.8	33.8	50.6
164	32.8	26.0	39.0

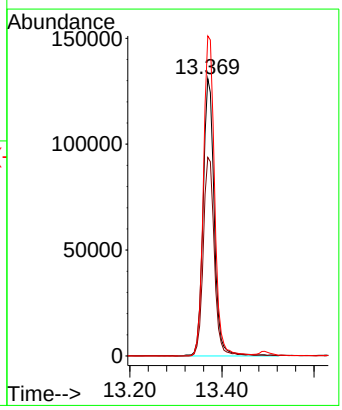


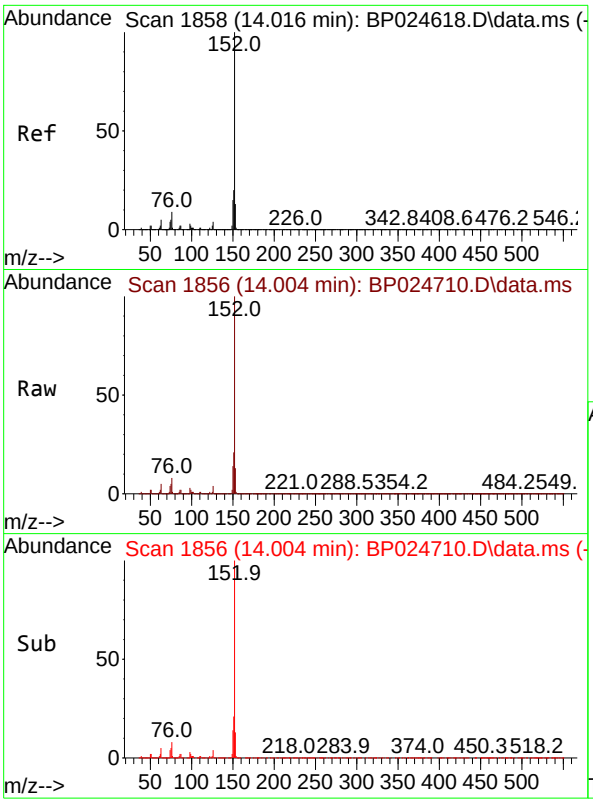


#48
2-Nitroaniline
Concen: 42.810 ng
RT: 13.369 min Scan# 1748
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion: 65 Resp: 221137

Ion	Ratio	Lower	Upper
65	100		
92	71.6	58.7	88.1
138	115.4	90.2	135.2



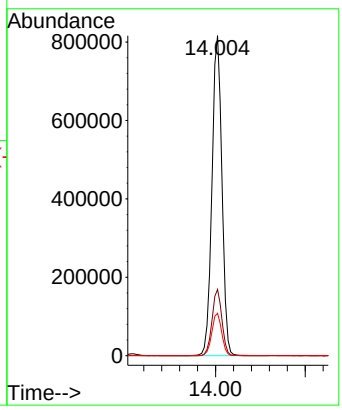


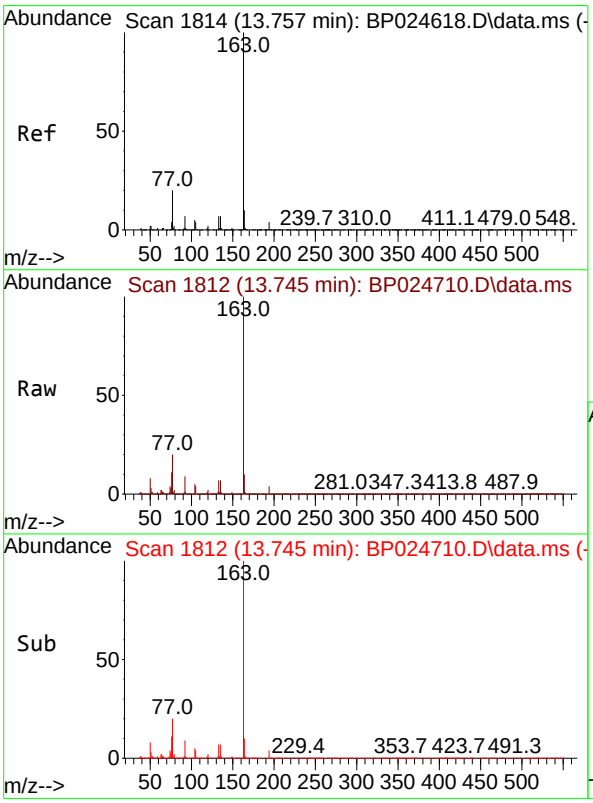
#49
Acenaphthylene
Concen: 43.022 ng
RT: 14.004 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:152 Resp: 1256167

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.2	24.4
153	13.2	10.2	15.4

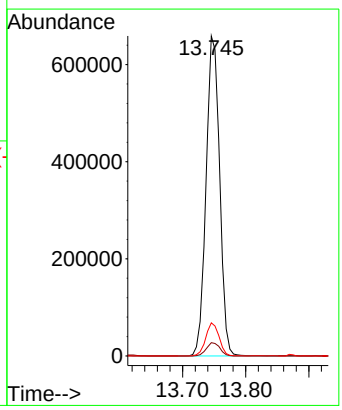


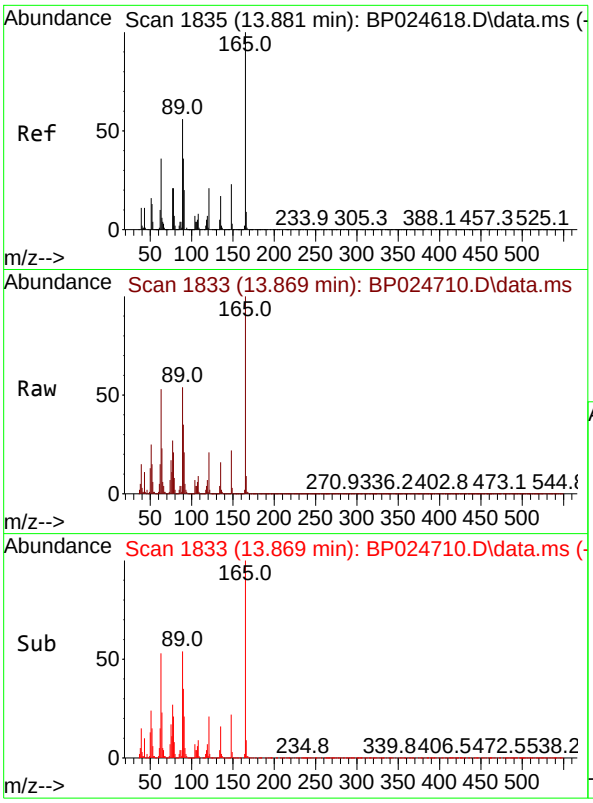


#50
Dimethylphthalate
Concen: 41.739 ng
RT: 13.745 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:163 Resp: 984957

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.4	8.1	12.1



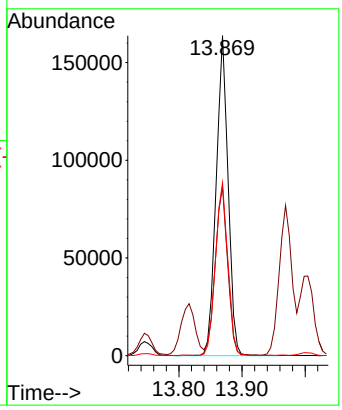


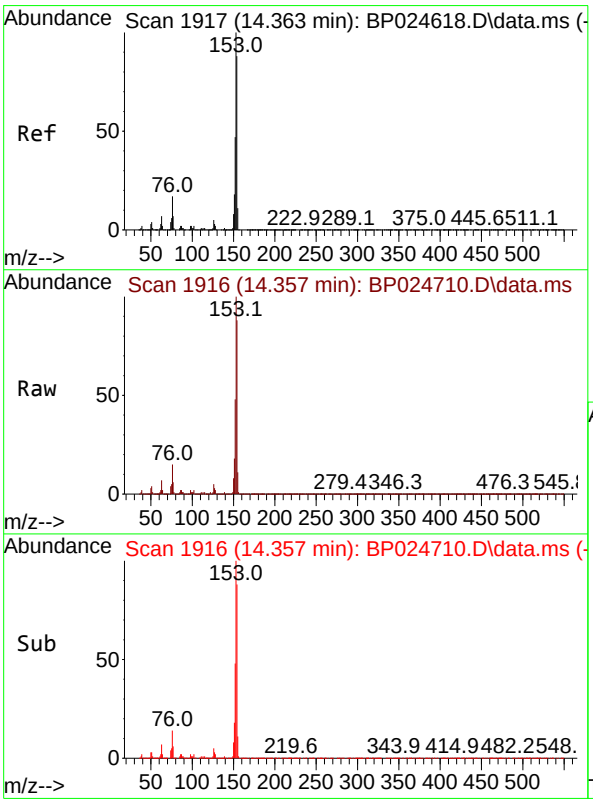
#51
2,6-Dinitrotoluene
Concen: 43.253 ng
RT: 13.869 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:165 Resp: 215564

Ion	Ratio	Lower	Upper
165	100		
63	52.7	42.4	63.6
89	54.0	44.8	67.2

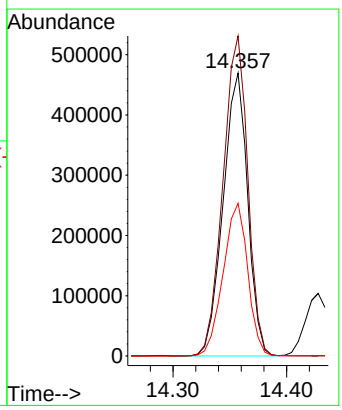


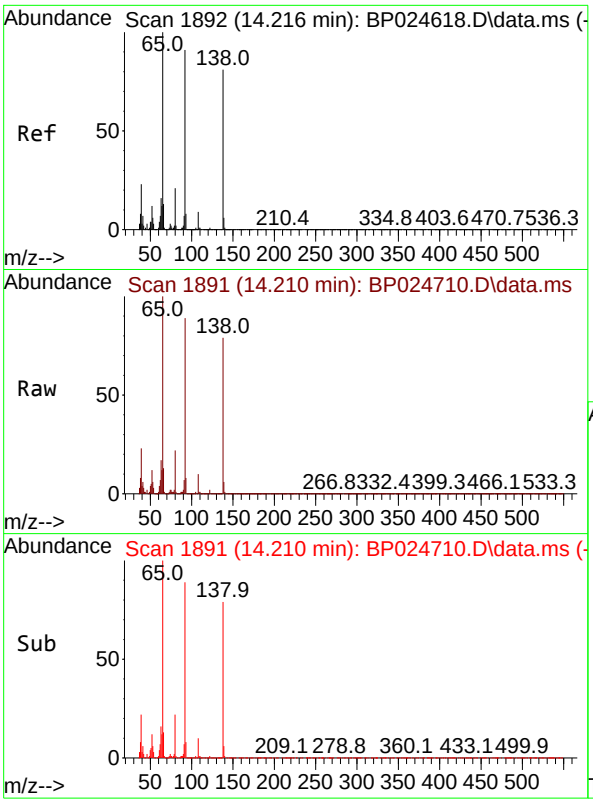


#52
Acenaphthene
Concen: 41.979 ng
RT: 14.357 min Scan# 1916
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:154 Resp: 704651

Ion	Ratio	Lower	Upper
154	100		
153	113.1	91.0	136.4
152	53.9	42.9	64.3



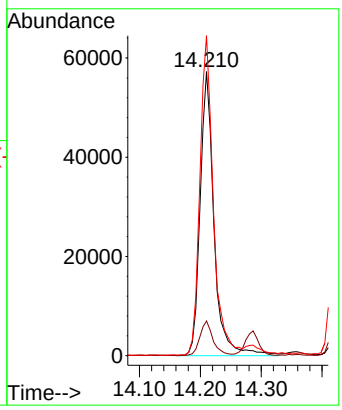


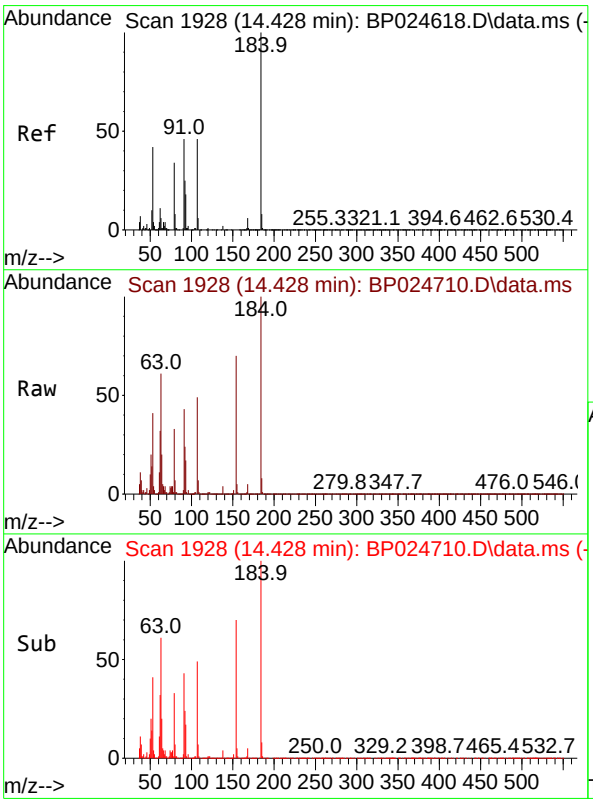
#53
3-Nitroaniline
Concen: 17.806 ng
RT: 14.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:138 Resp: 90611

Ion	Ratio	Lower	Upper
138	100		
108	12.2	9.0	13.4
92	112.7	90.1	135.1

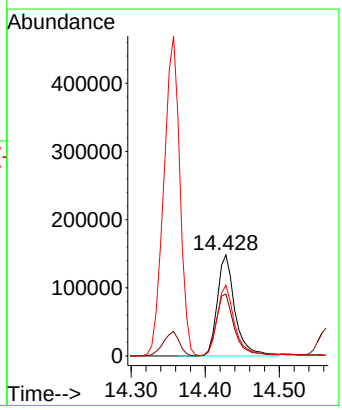


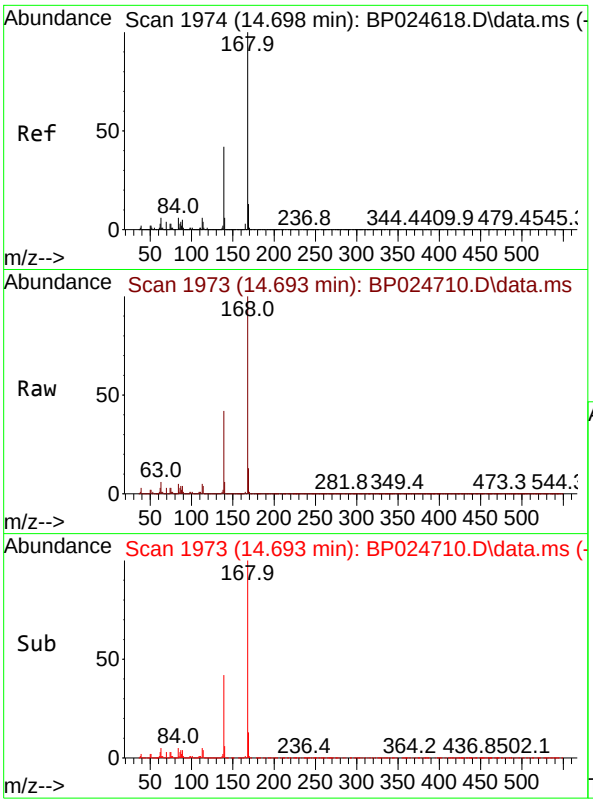


#54
2,4-Dinitrophenol
Concen: 78.073 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:184 Resp: 244832

Ion	Ratio	Lower	Upper
184	100		
63	61.2	51.3	76.9
154	69.9	53.5	80.3



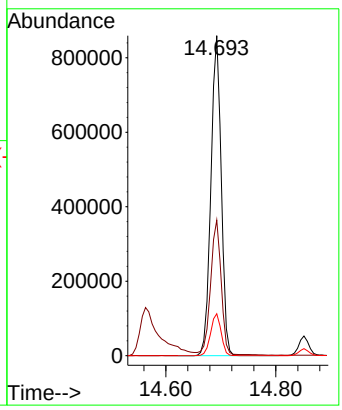


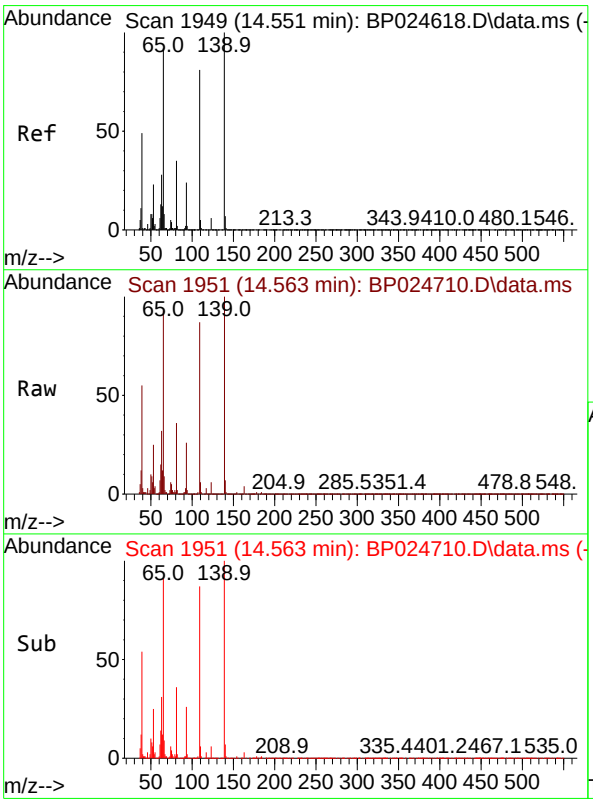
#55
Dibenzofuran
Concen: 41.905 ng
RT: 14.693 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:168 Resp: 1121969

Ion	Ratio	Lower	Upper
168	100		
139	42.3	34.2	51.4
169	13.1	10.8	16.2

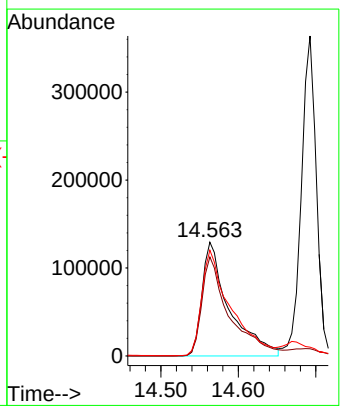


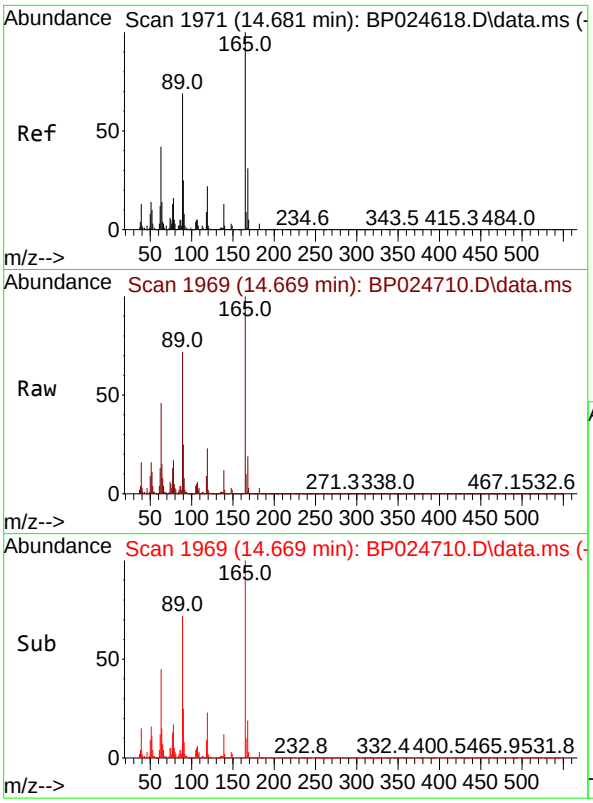


#56
4-Nitrophenol
Concen: 72.556 ng
RT: 14.563 min Scan# 1951
Delta R.T. 0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:139 Resp: 317817

Ion	Ratio	Lower	Upper
139	100		
109	87.1	61.4	101.4
65	92.9	72.2	112.2



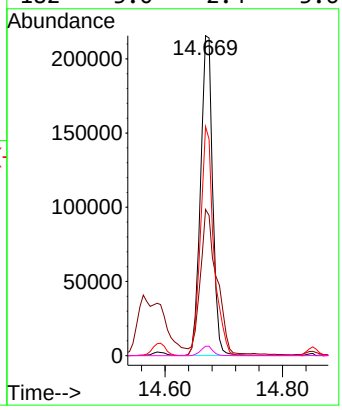


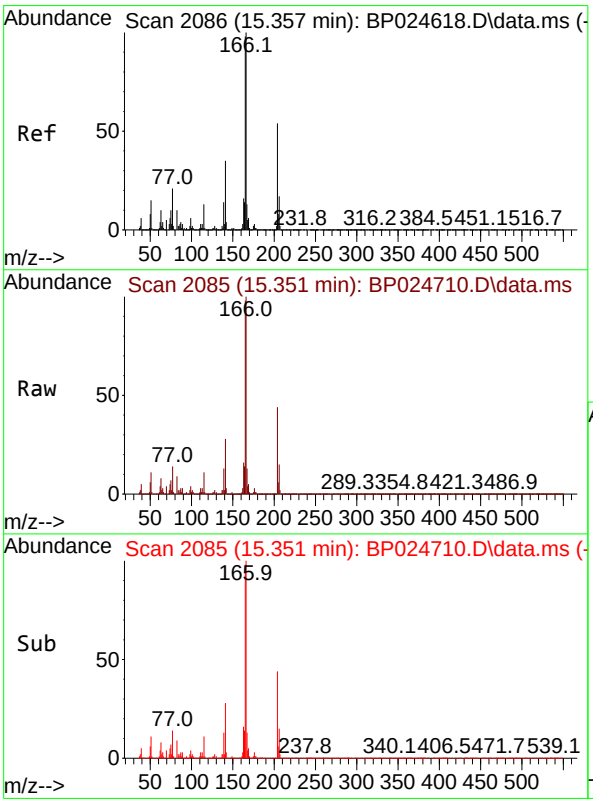
#57
2,4-Dinitrotoluene
Concen: 43.720 ng
RT: 14.669 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:165 Resp: 307186

Ion	Ratio	Lower	Upper
165	100		
63	45.7	33.8	50.6
89	71.6	55.6	83.4
182	3.0	2.4	3.6

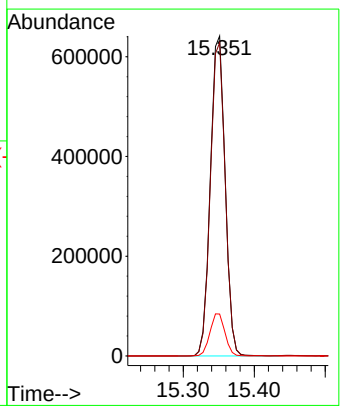


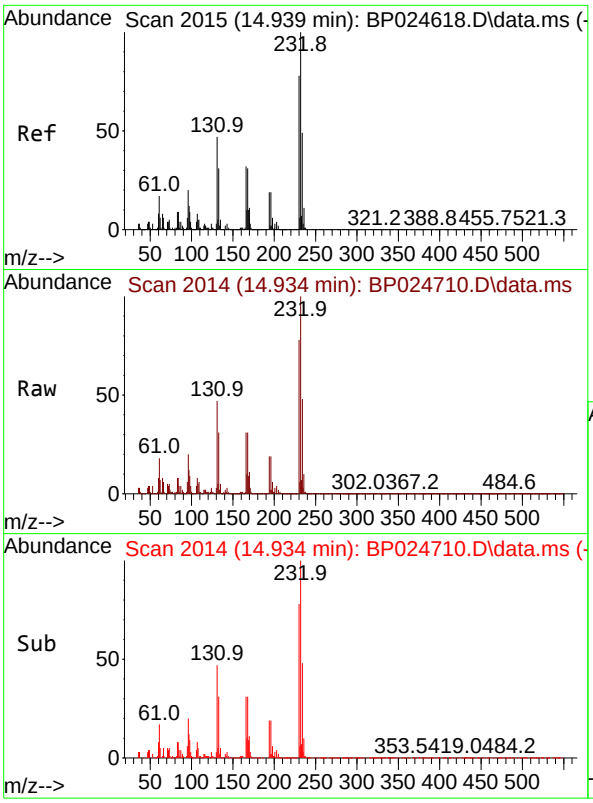


#58
Fluorene
Concen: 42.381 ng
RT: 15.351 min Scan# 2085
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:166 Resp: 925244

Ion	Ratio	Lower	Upper
166	100		
165	97.9	78.5	117.7
167	13.1	10.7	16.1



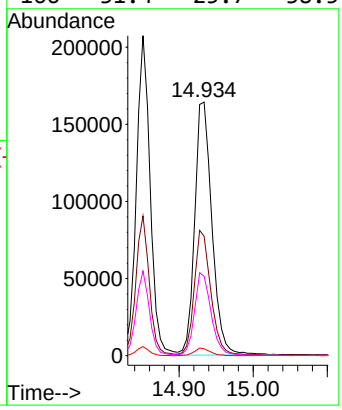


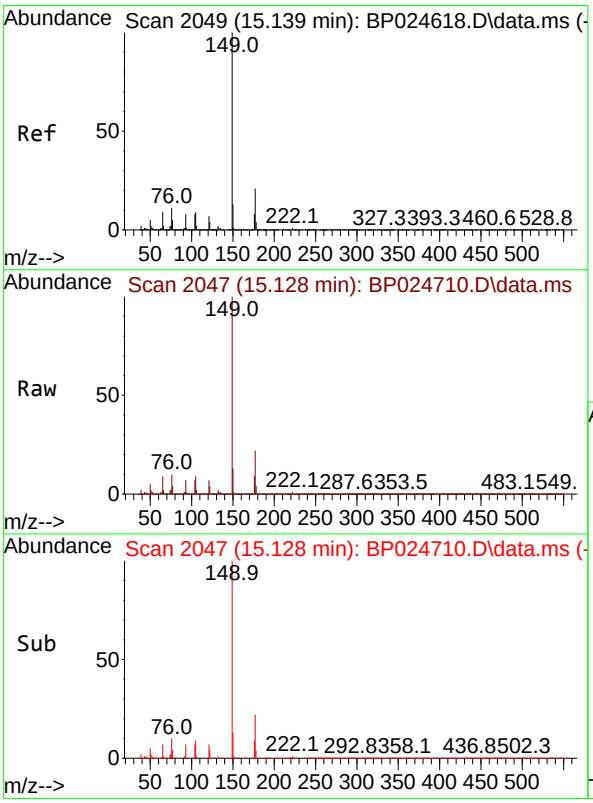
#59
2,3,4,6-Tetrachlorophenol
Concen: 44.124 ng
RT: 14.934 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:232 Resp: 265318

Ion	Ratio	Lower	Upper
232	100		
131	47.9	39.5	59.3
130	2.8	2.2	3.4
166	31.4	25.7	38.5

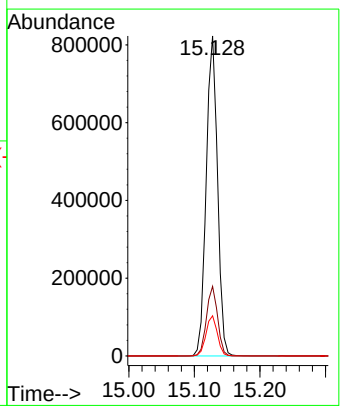


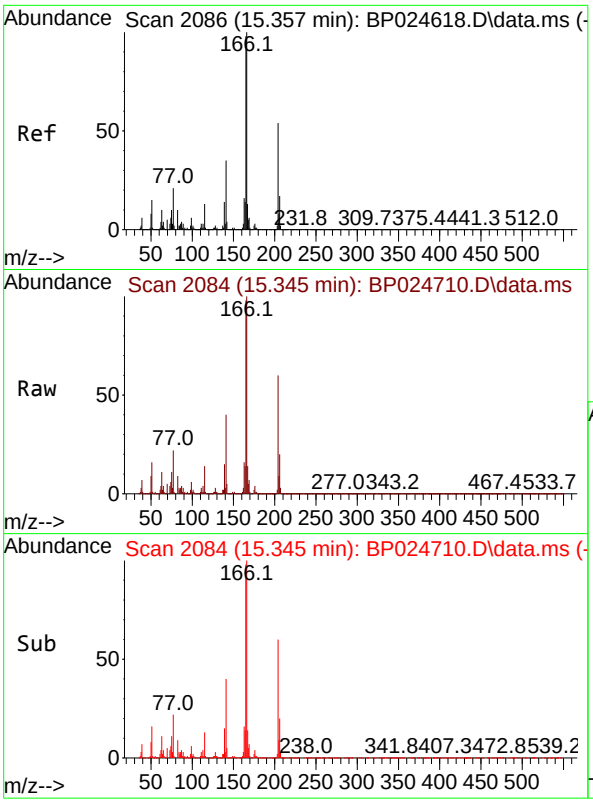


#60
Diethylphthalate
Concen: 41.371 ng
RT: 15.128 min Scan# 2047
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:149 Resp: 986733

Ion	Ratio	Lower	Upper
149	100		
177	21.8	16.7	25.1
150	12.6	10.2	15.2



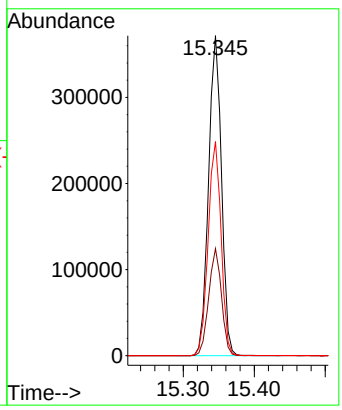


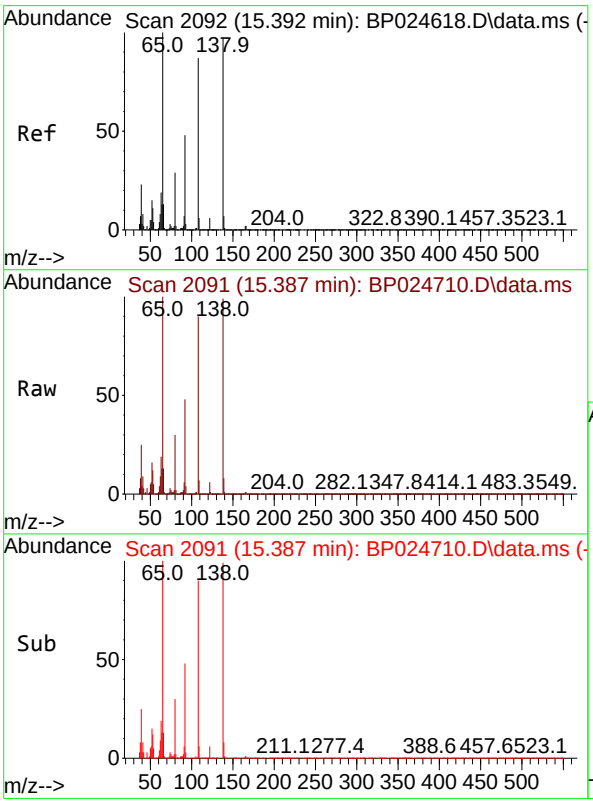
#61
4-Chlorophenyl-phenylether
Concen: 43.219 ng
RT: 15.345 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:204 Resp: 470546

Ion	Ratio	Lower	Upper
204	100		
206	33.4	26.0	39.0
141	66.9	52.9	79.3

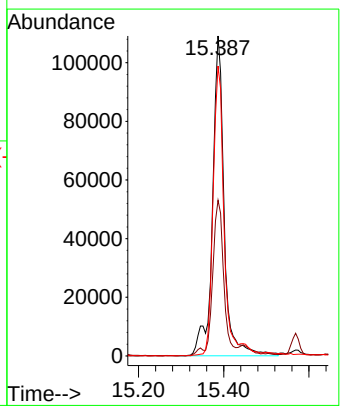


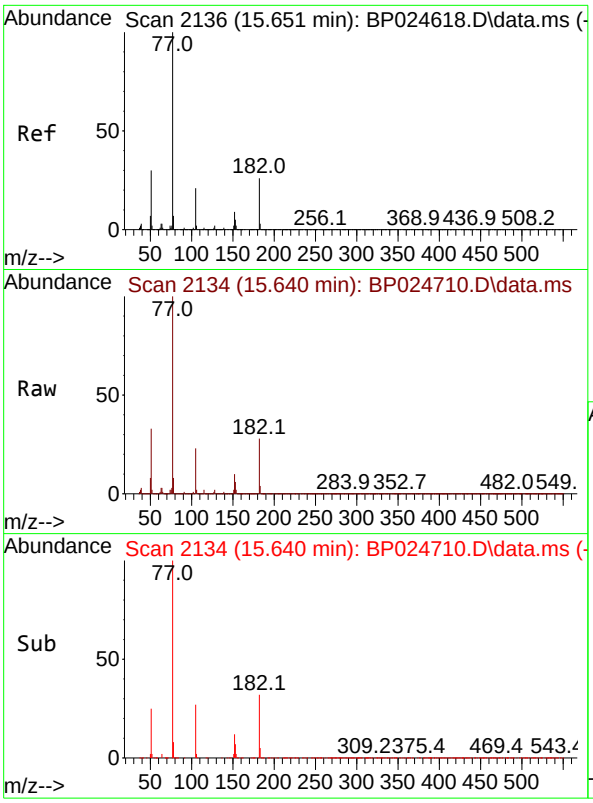


#62
4-Nitroaniline
Concen: 42.524 ng
RT: 15.387 min Scan# 2091
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:138 Resp: 208945

Ion	Ratio	Lower	Upper
138	100		
92	48.6	29.2	69.2
108	90.6	69.0	109.0



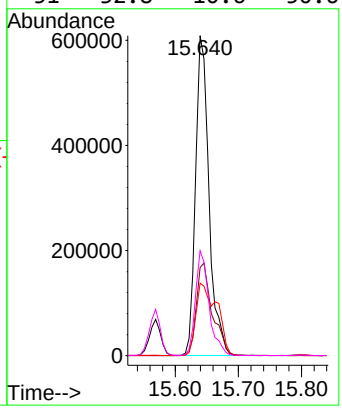


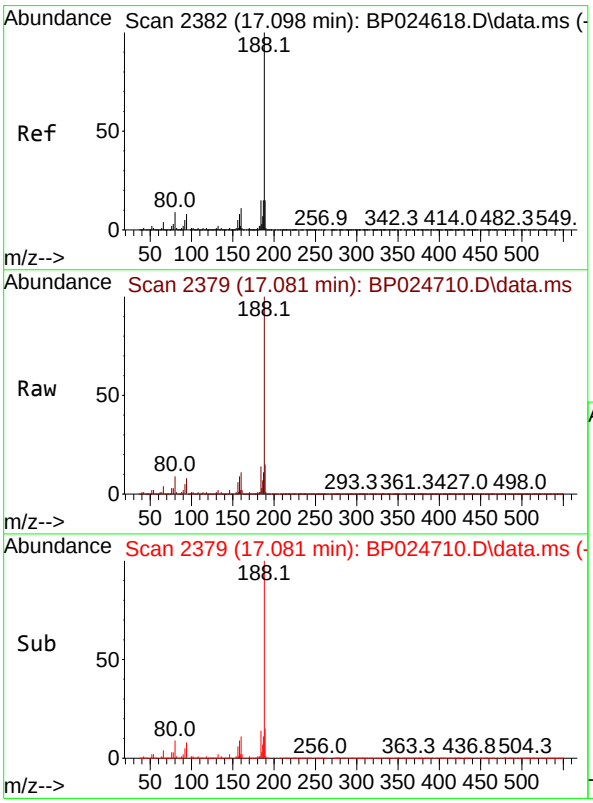
#63
Azobenzene
Concen: 44.148 ng
RT: 15.640 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion: 77 Resp: 900768

Ion	Ratio	Lower	Upper
77	100		
182	27.6	5.7	45.7
105	22.7	1.3	41.3
51	32.8	10.6	50.6

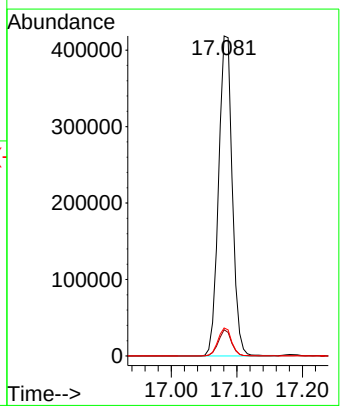


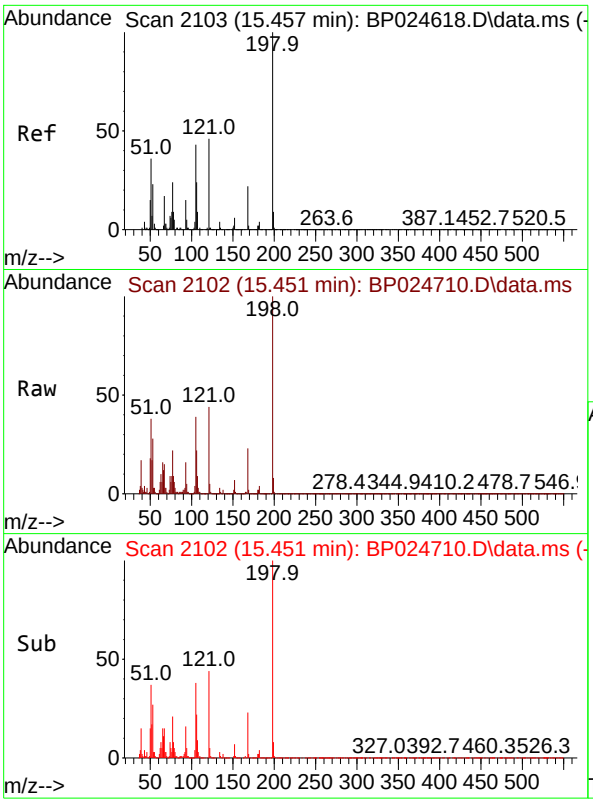


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.081 min Scan# 2379
Delta R.T. -0.018 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:188 Resp: 602056

Ion	Ratio	Lower	Upper
188	100		
94	8.2	6.5	9.7
80	8.7	7.3	10.9



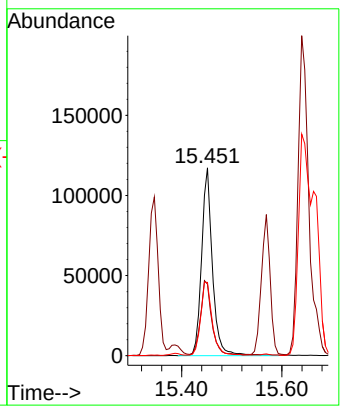


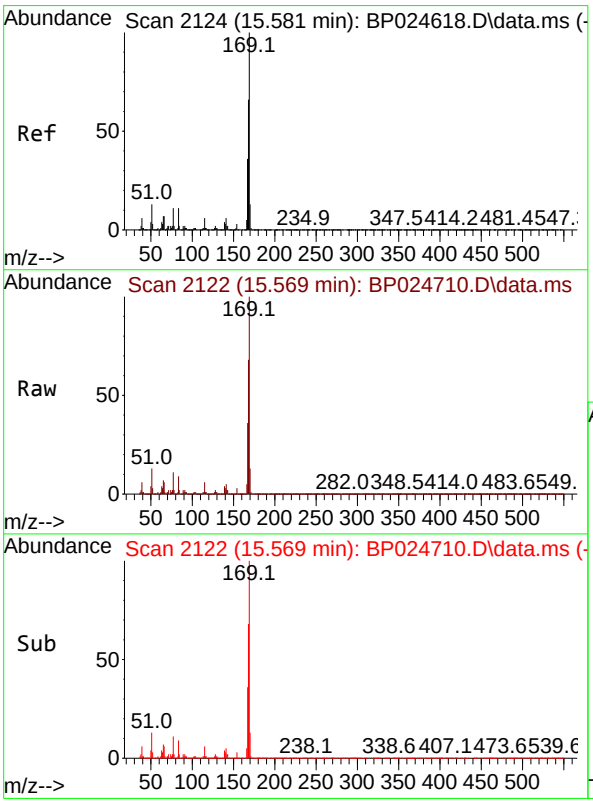
#65
4,6-Dinitro-2-methylphenol
Concen: 45.234 ng
RT: 15.451 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:198 Resp: 175911

Ion	Ratio	Lower	Upper
198	100		
51	38.1	21.1	61.1
105	39.0	23.6	63.6

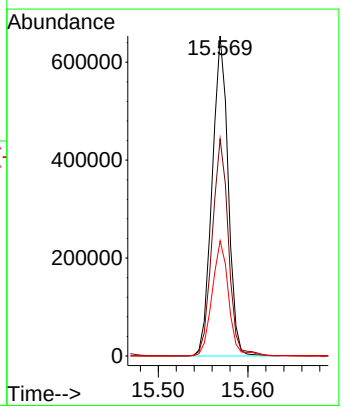


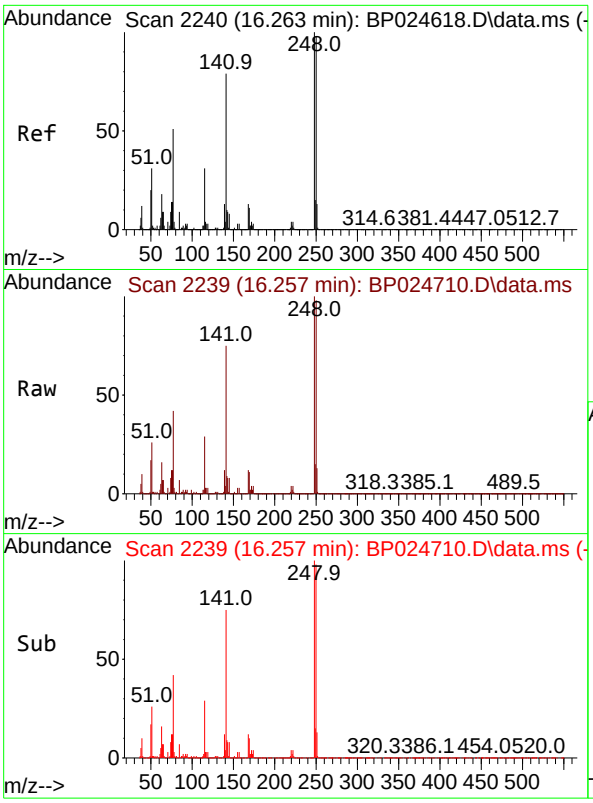


#66
n-Nitrosodiphenylamine
Concen: 43.718 ng
RT: 15.569 min Scan# 2122
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:169 Resp: 808469

Ion	Ratio	Lower	Upper
169	100		
168	67.9	53.2	79.8
167	36.0	28.6	43.0



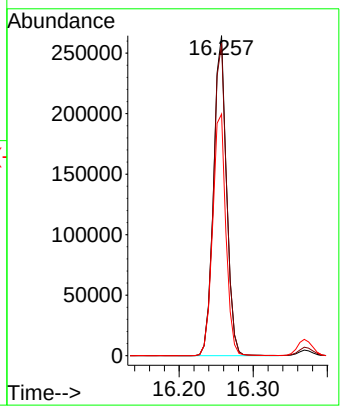


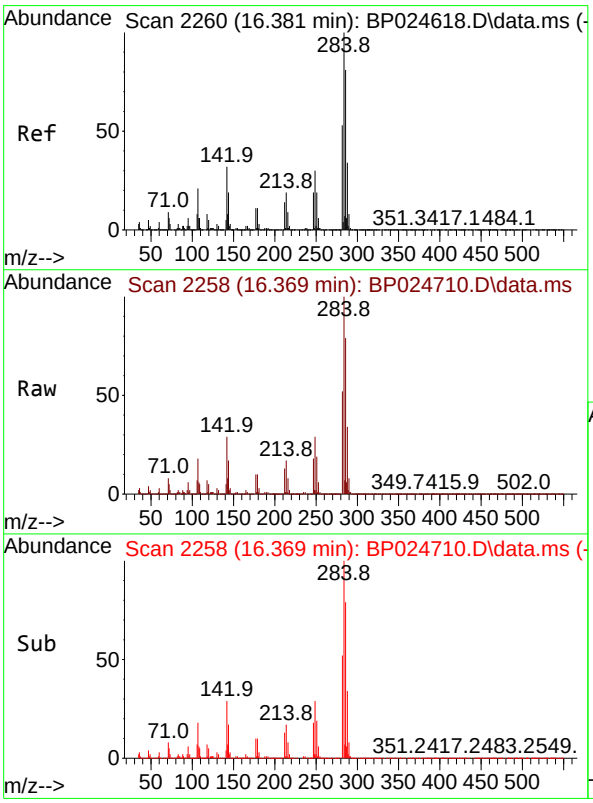
#67
4-Bromophenyl-phenylether
Concen: 45.108 ng
RT: 16.257 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:248 Resp: 320006

Ion	Ratio	Lower	Upper
248	100		
250	97.6	78.2	117.4
141	75.5	63.0	94.6

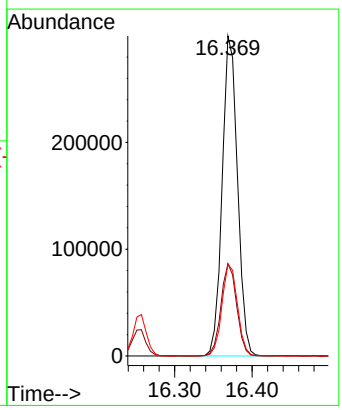


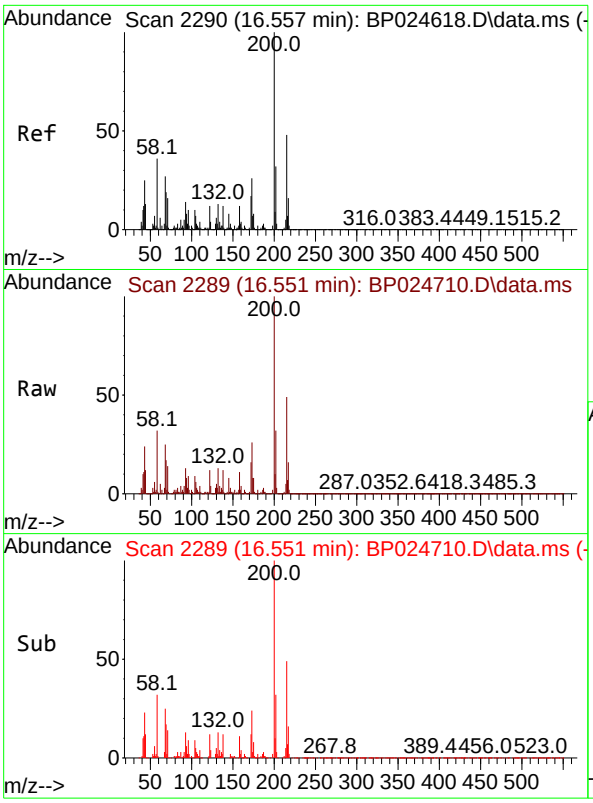


#68
Hexachlorobenzene
Concen: 45.740 ng
RT: 16.369 min Scan# 2258
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:284 Resp: 412329

Ion	Ratio	Lower	Upper
284	100		
142	28.8	25.9	38.9
249	28.7	24.1	36.1



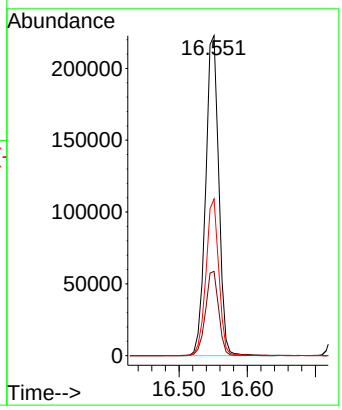


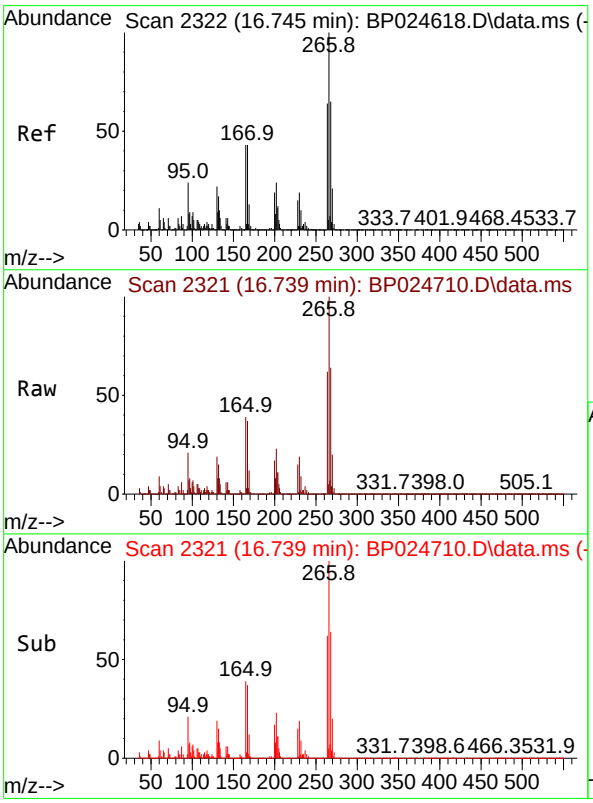
#69
Atrazine
Concen: 44.128 ng
RT: 16.551 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:200 Resp: 299058

Ion	Ratio	Lower	Upper
200	100		
173	26.4	5.9	45.9
215	49.0	28.3	68.3

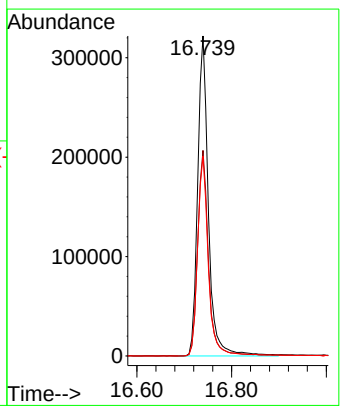


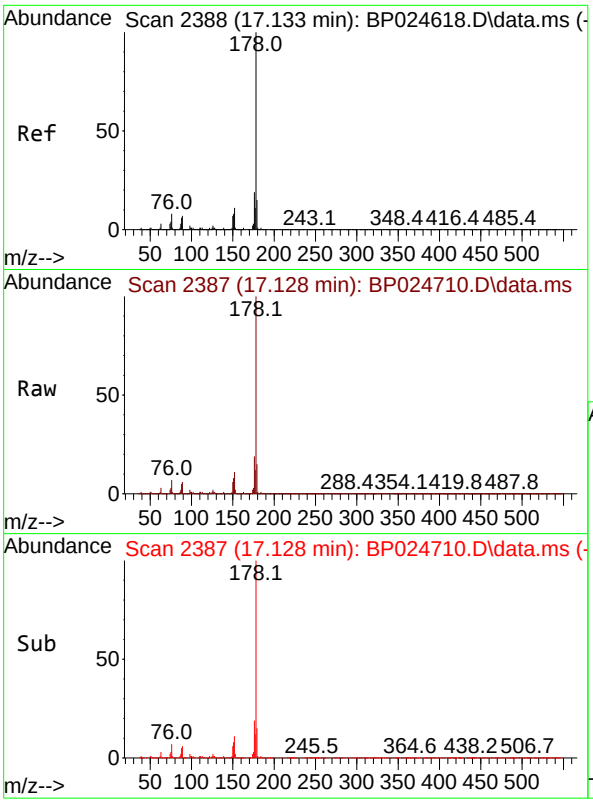


#70
Pentachlorophenol
Concen: 100.168 ng
RT: 16.739 min Scan# 2321
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:266 Resp: 506884

Ion	Ratio	Lower	Upper
266	100		
268	64.3	52.2	78.4
264	62.4	51.1	76.7



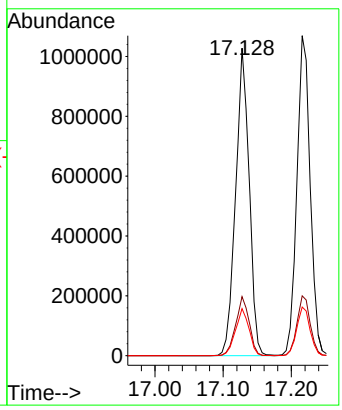


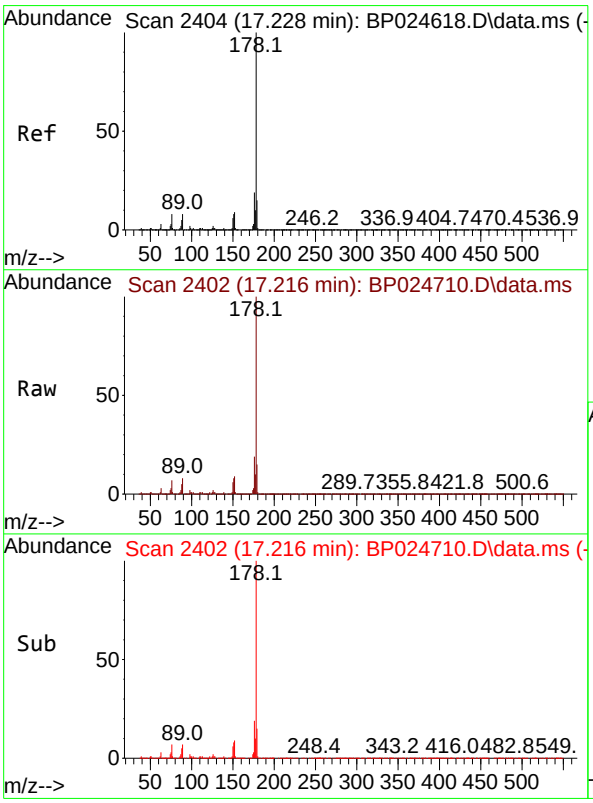
#71
Phenanthrene
Concen: 42.429 ng
RT: 17.128 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:178 Resp: 1420071

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.3	12.2	18.4

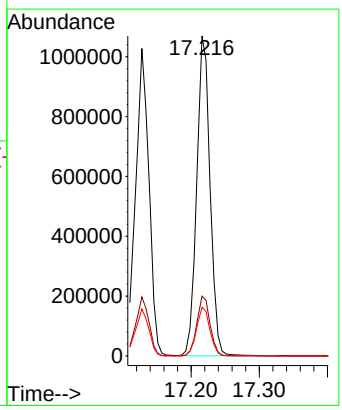


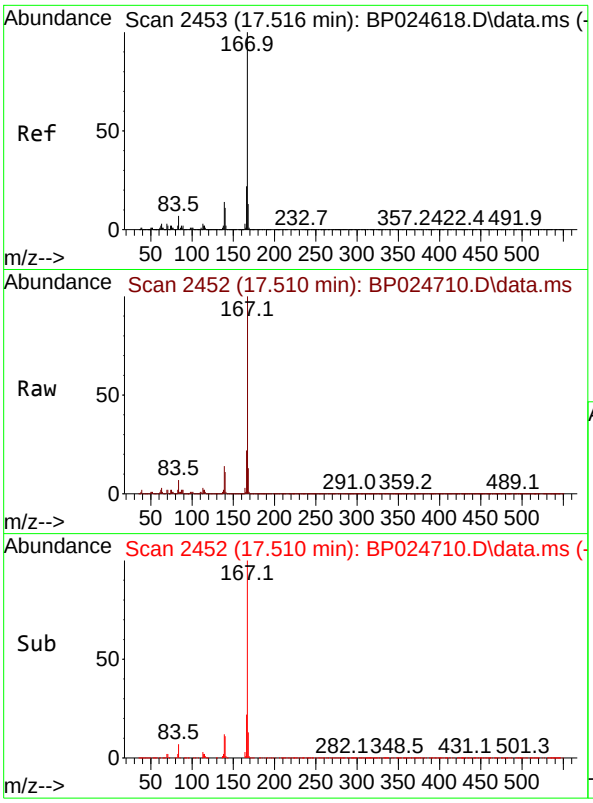


#72
Anthracene
Concen: 43.177 ng
RT: 17.216 min Scan# 2402
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:178 Resp: 1453916

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.2	12.2	18.2



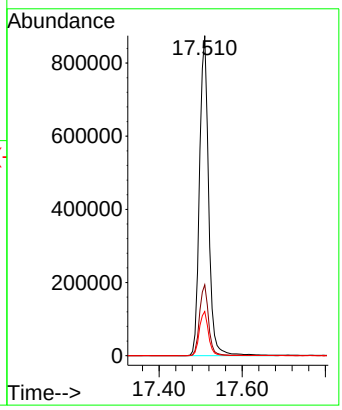


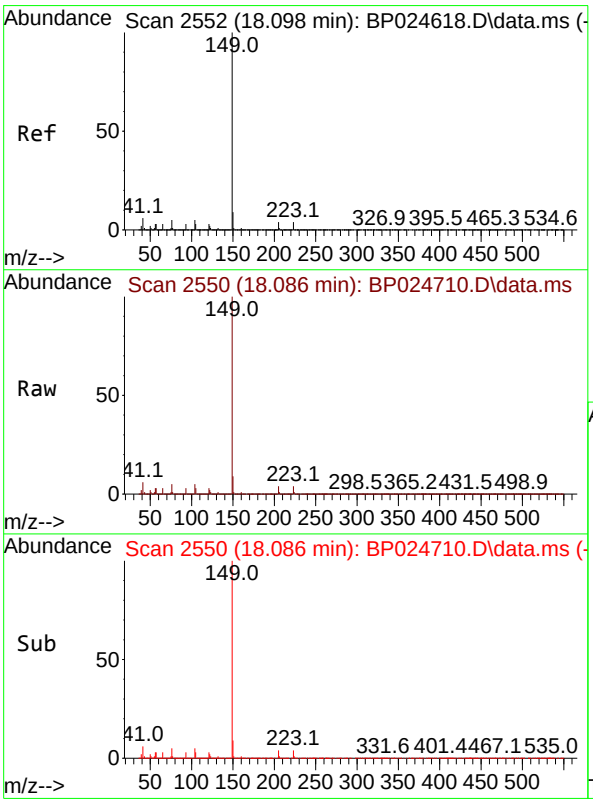
#73
Carbazole
Concen: 43.677 ng
RT: 17.510 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:167 Resp: 1331178

Ion	Ratio	Lower	Upper
167	100		
166	22.2	17.7	26.5
139	13.8	11.3	16.9

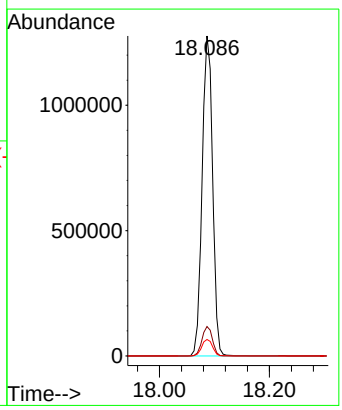


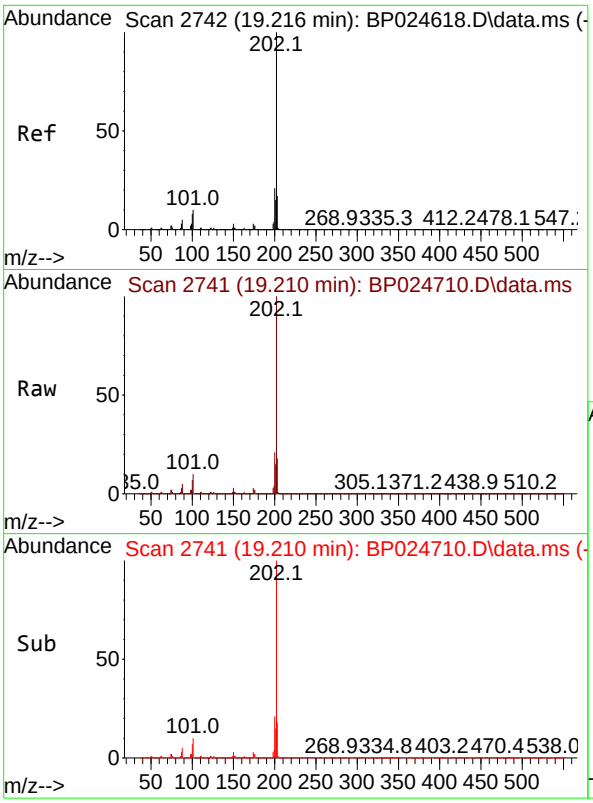


#74
Di-n-butylphthalate
Concen: 43.018 ng
RT: 18.086 min Scan# 2550
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:149 Resp: 1686186

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	5.1	4.3	6.5



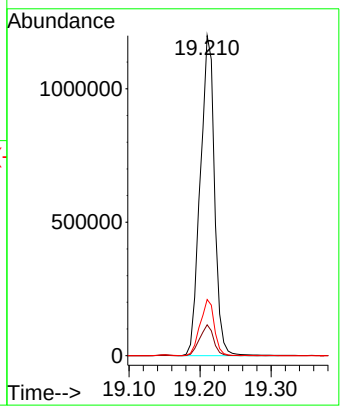


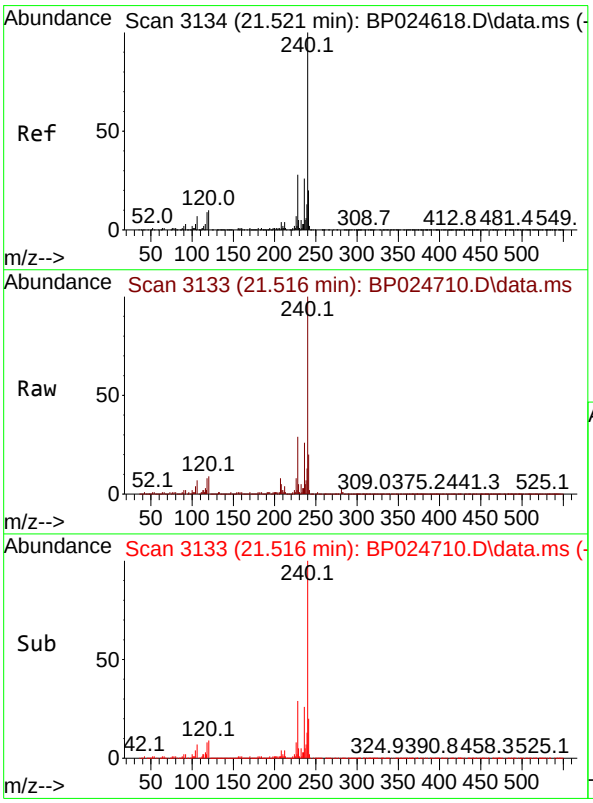
#75
Fluoranthene
Concen: 42.876 ng
RT: 19.210 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:202 Resp: 1677434

Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	30.3
203	17.5	0.0	37.5

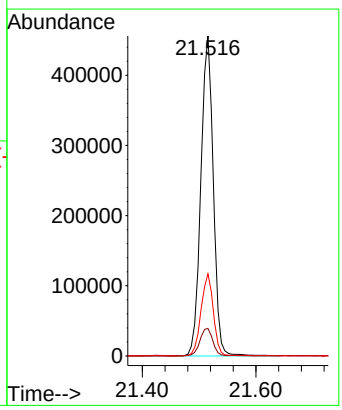


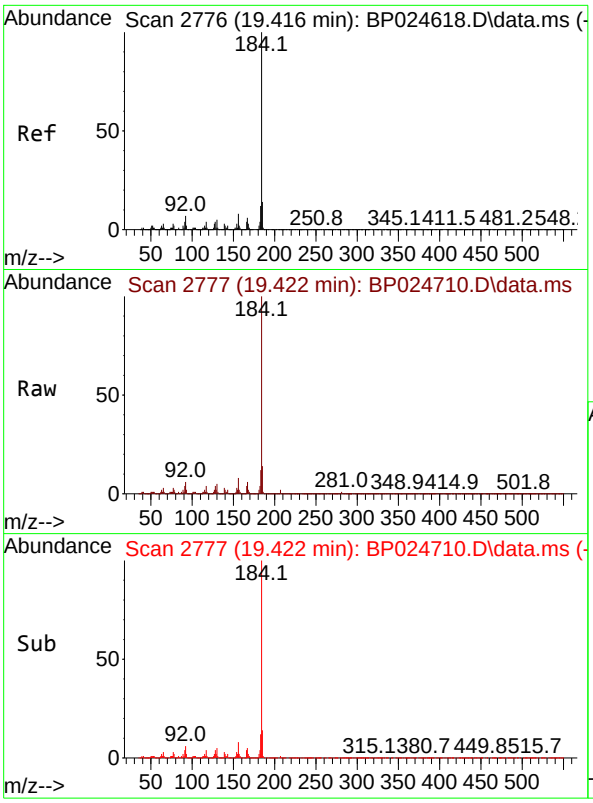


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.516 min Scan# 3133
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:240 Resp: 694322

Ion	Ratio	Lower	Upper
240	100		
120	8.6	7.8	11.6
236	25.7	20.6	31.0



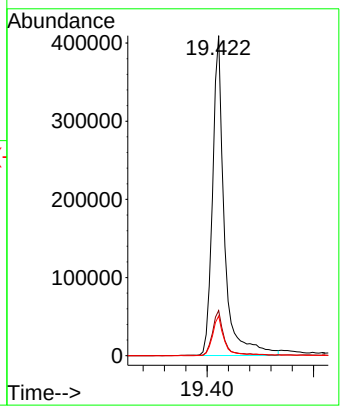


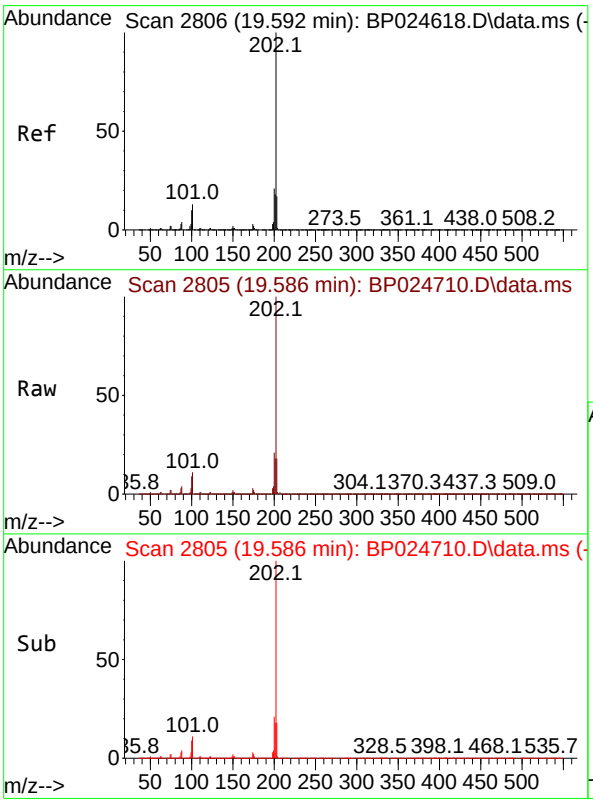
#77
Benzidine
Concen: 33.509 ng
RT: 19.422 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:184 Resp: 633675

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.2	16.8
183	12.4	9.8	14.8

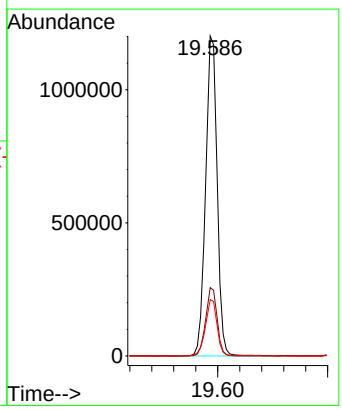


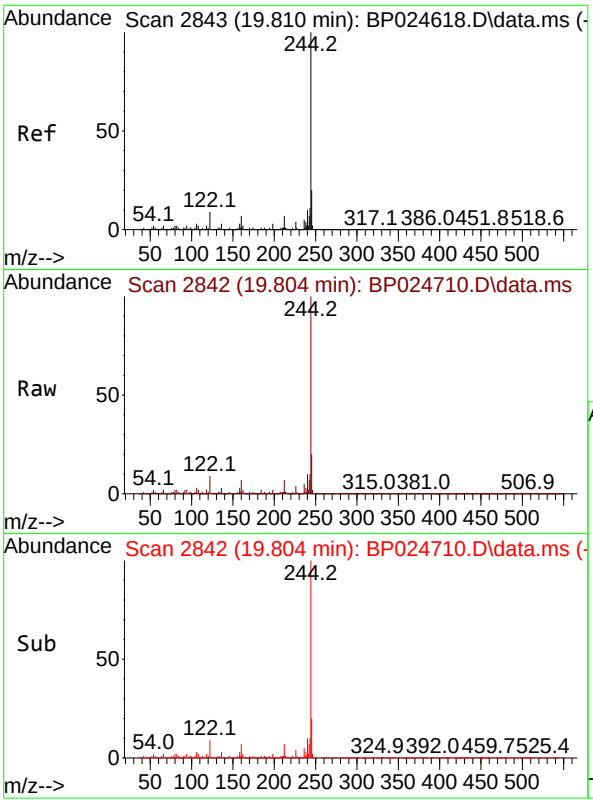


#78
Pyrene
Concen: 41.947 ng
RT: 19.586 min Scan# 2805
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:202 Resp: 1745089

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	17.6	13.9	20.9



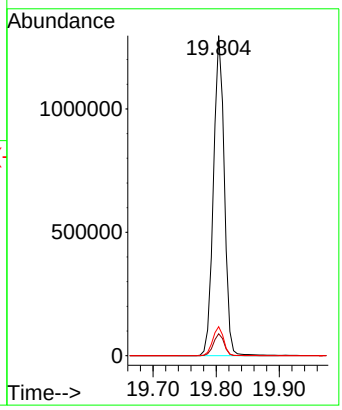


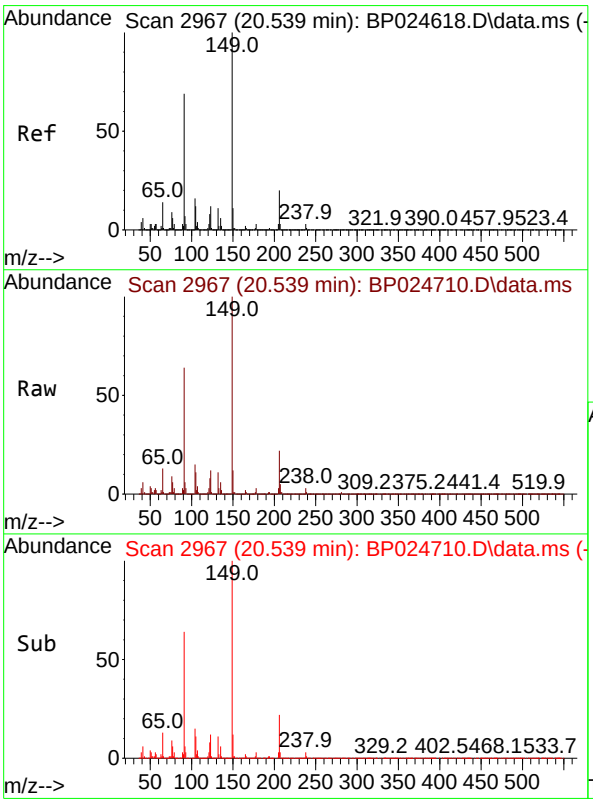
#79
Terphenyl-d14
Concen: 38.095 ng
RT: 19.804 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:244 Resp: 1542550

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.5	8.3
122	9.1	7.4	11.0

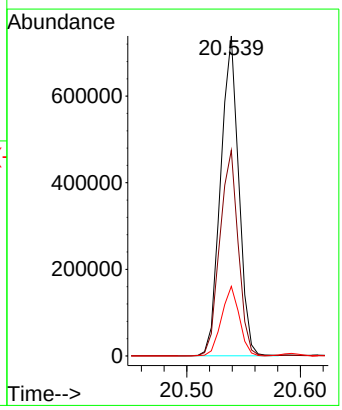


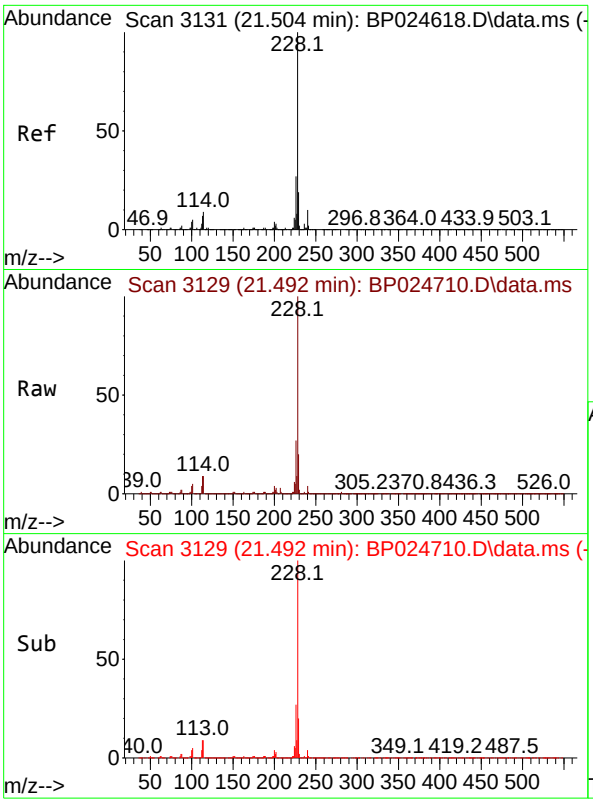


#80
Butylbenzylphthalate
Concen: 44.252 ng
RT: 20.539 min Scan# 2967
Delta R.T. 0.000 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:149 Resp: 818753

Ion	Ratio	Lower	Upper
149	100		
91	64.2	55.4	83.0
206	21.8	16.2	24.2



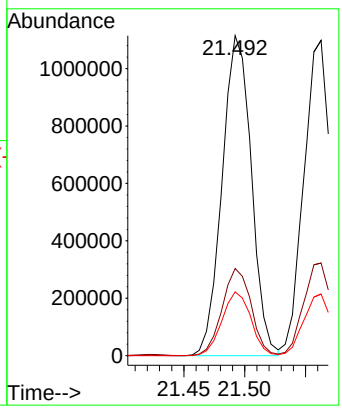


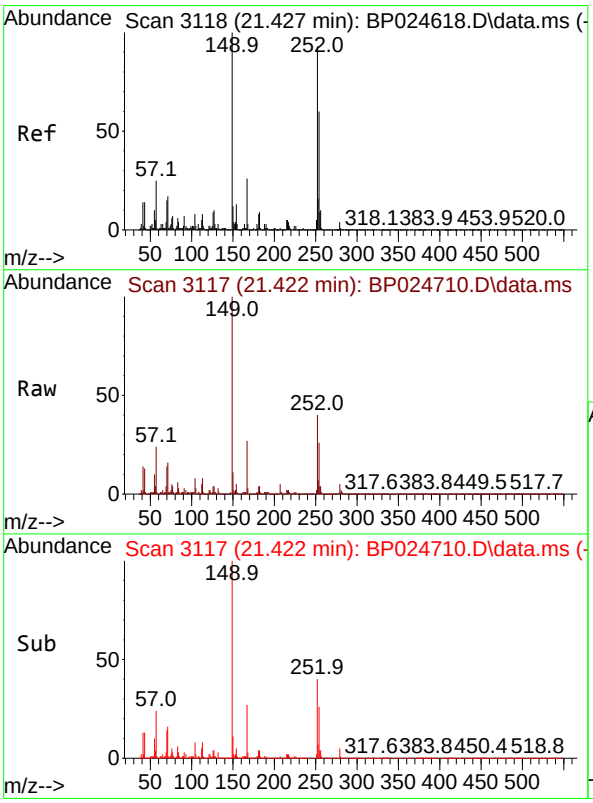
#81
Benzo(a)anthracene
Concen: 42.756 ng
RT: 21.492 min Scan# 31
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:228 Resp: 1864044

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.4	32.0
229	19.9	15.5	23.3

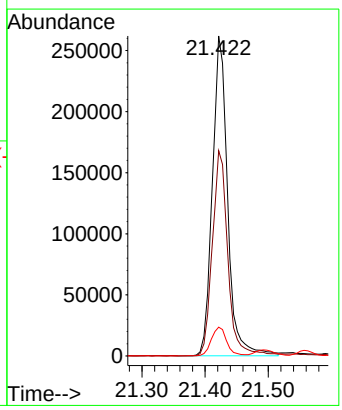


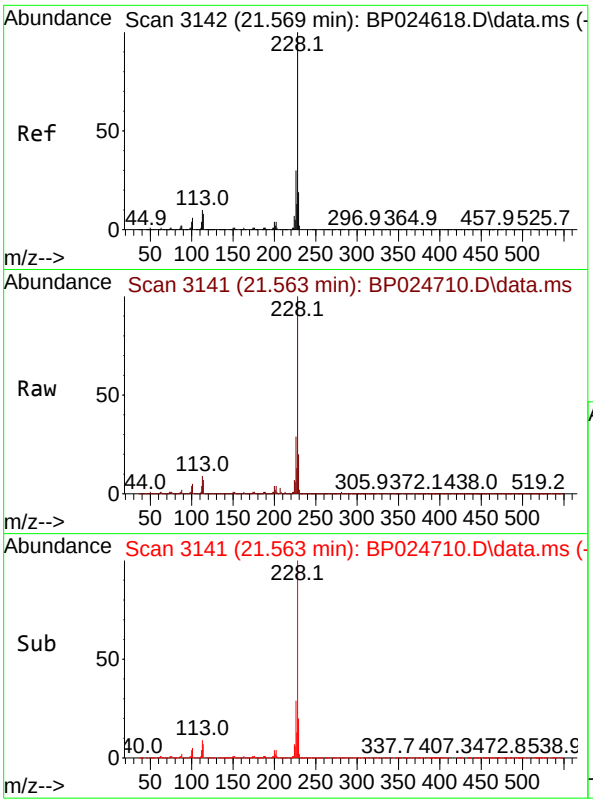


#82
3,3'-Dichlorobenzidine
Concen: 27.085 ng
RT: 21.422 min Scan# 3117
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:252 Resp: 438591

Ion	Ratio	Lower	Upper
252	100		
254	64.1	51.8	77.6
126	9.0	7.7	11.5



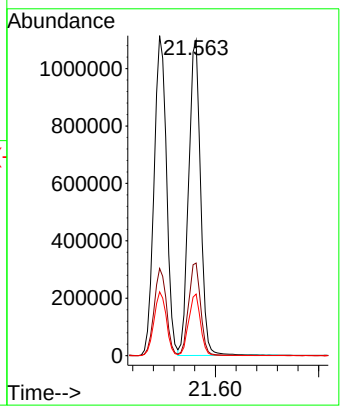


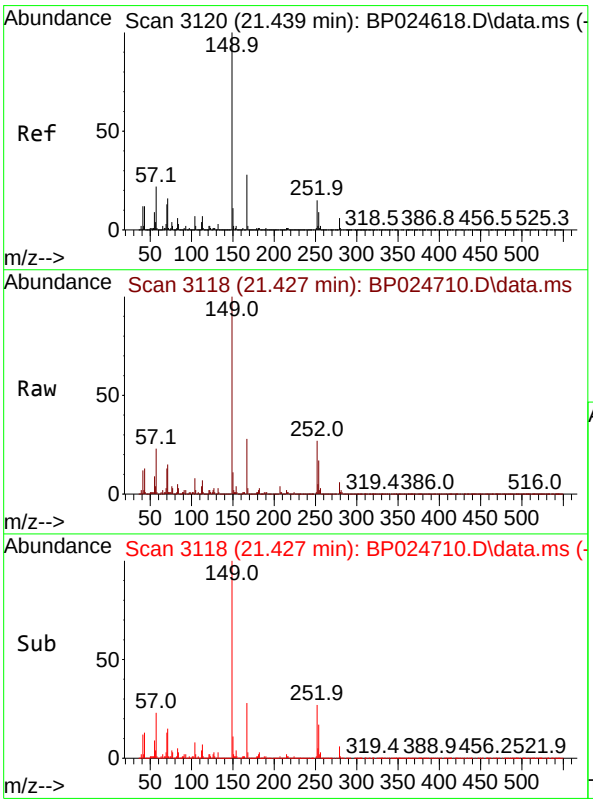
#83
Chrysene
Concen: 42.524 ng
RT: 21.563 min Scan# 31
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:228 Resp: 1757452

Ion	Ratio	Lower	Upper
228	100		
226	29.4	23.9	35.9
229	19.5	15.5	23.3

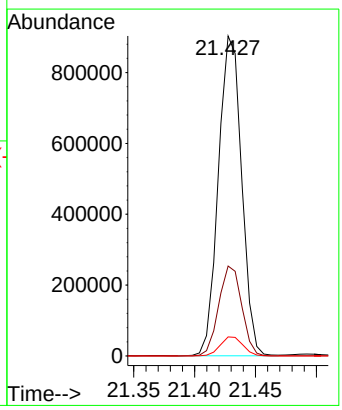


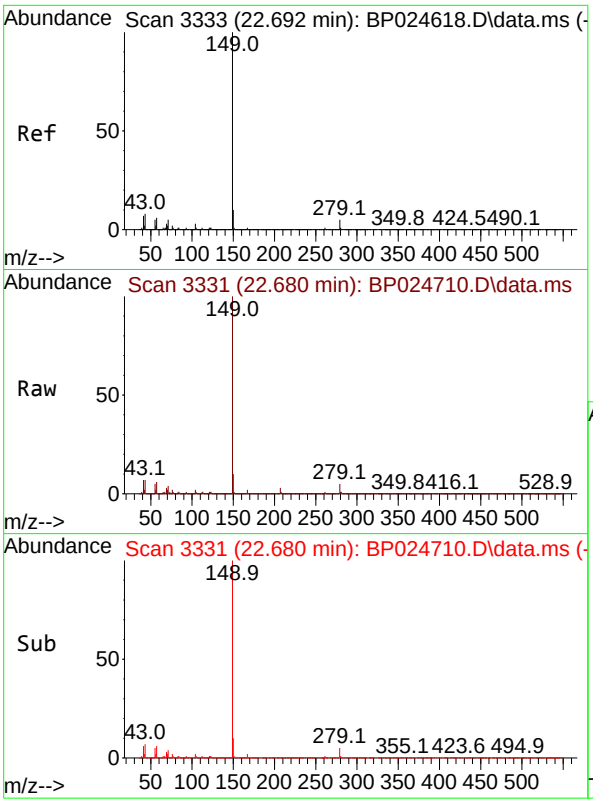


#84
Bis(2-ethylhexyl)phthalate
Concen: 44.065 ng
RT: 21.427 min Scan# 3118
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:149 Resp: 1198343

Ion	Ratio	Lower	Upper
149	100		
167	28.1	22.1	33.1
279	5.9	4.6	6.8



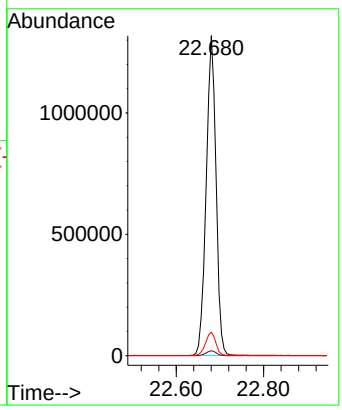


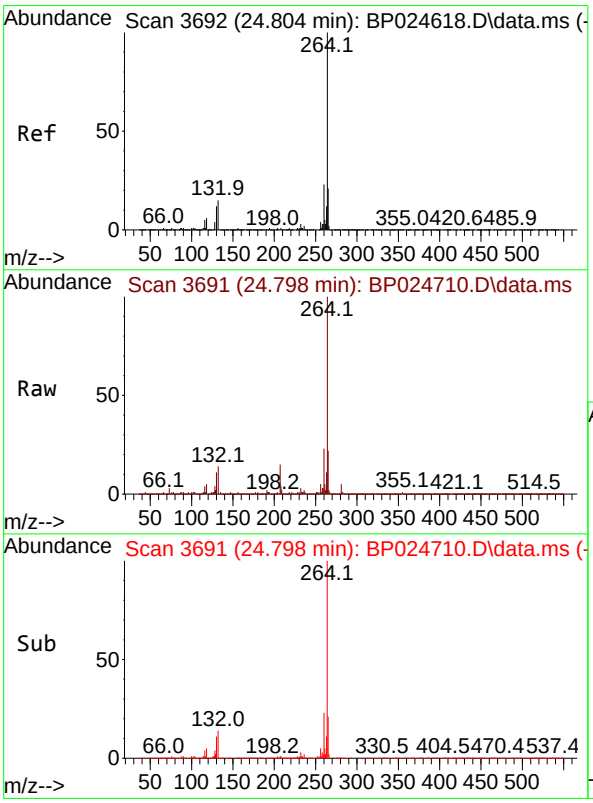
#85
Di-n-octyl phthalate
Concen: 46.415 ng
RT: 22.680 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:149 Resp: 2064146

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.6	6.3	9.5

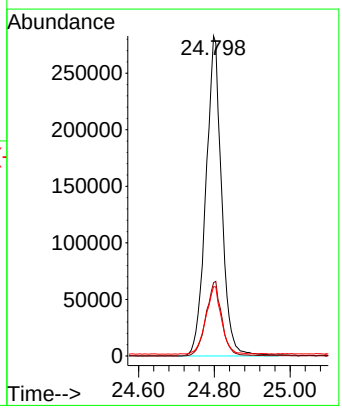


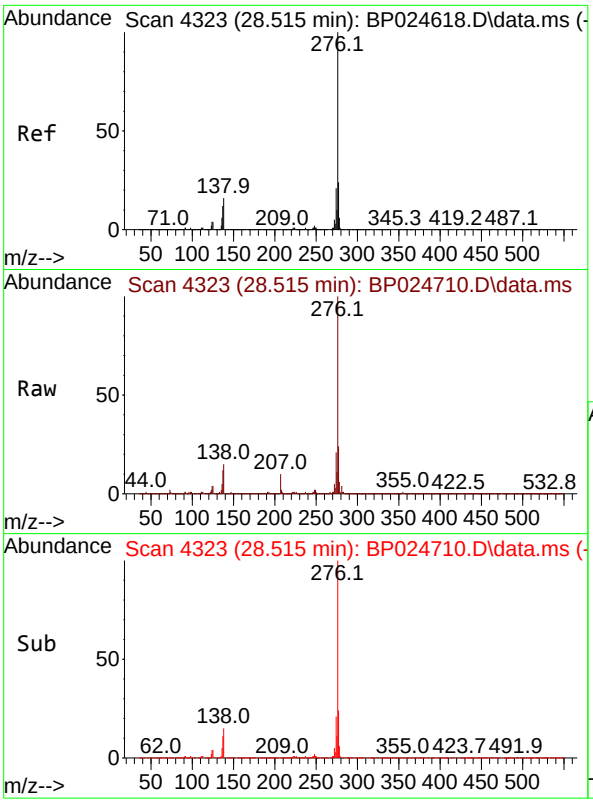


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.798 min Scan# 3691
Delta R.T. -0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:264 Resp: 810851

Ion	Ratio	Lower	Upper
264	100		
260	22.9	18.7	28.1
265	21.7	17.0	25.6



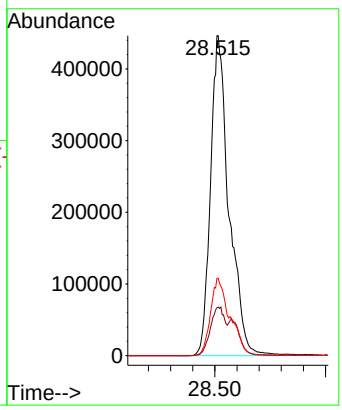


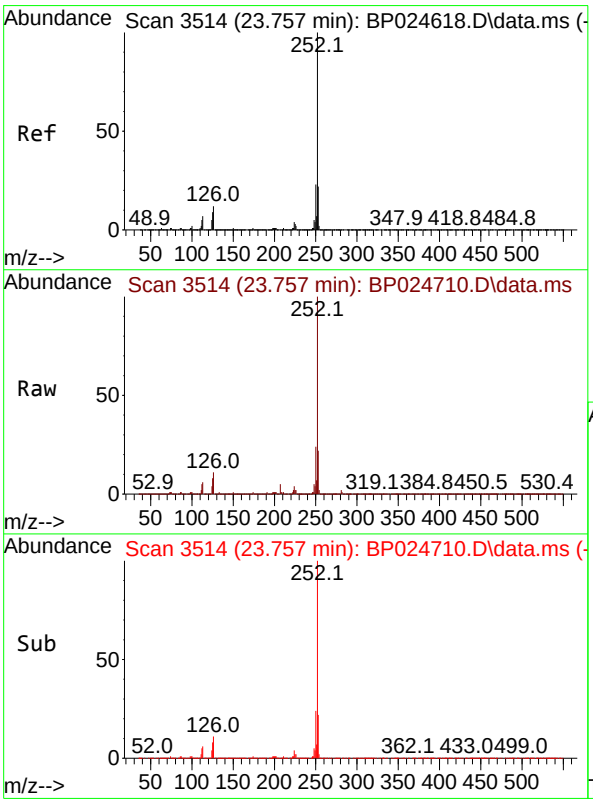
#87
Indeno(1,2,3-cd)pyrene
Concen: 43.671 ng
RT: 28.515 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:276 Resp: 2585176

Ion	Ratio	Lower	Upper
276	100		
138	12.2	11.2	16.8
277	25.5	15.7	23.5#

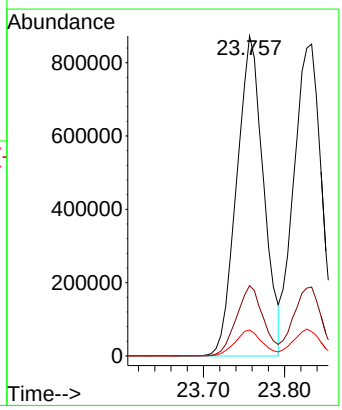


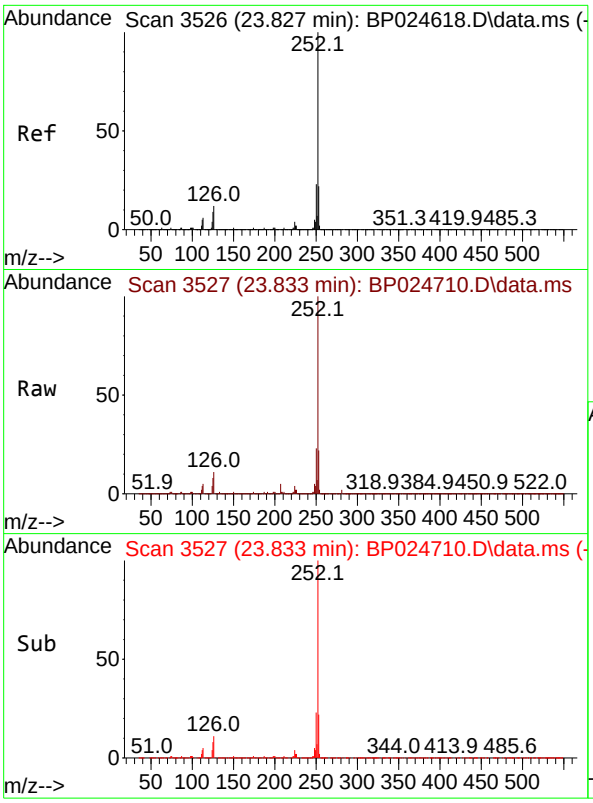


#88
Benzo(b)fluoranthene
Concen: 43.112 ng
RT: 23.757 min Scan# 3514
Delta R.T. 0.000 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:252 Resp: 2000923

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	8.1	7.5	11.3



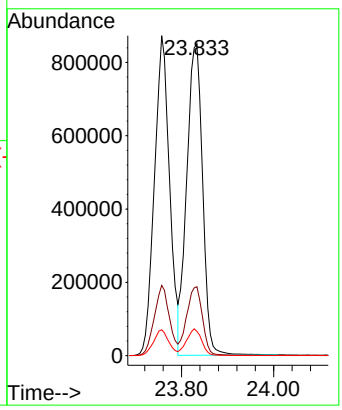


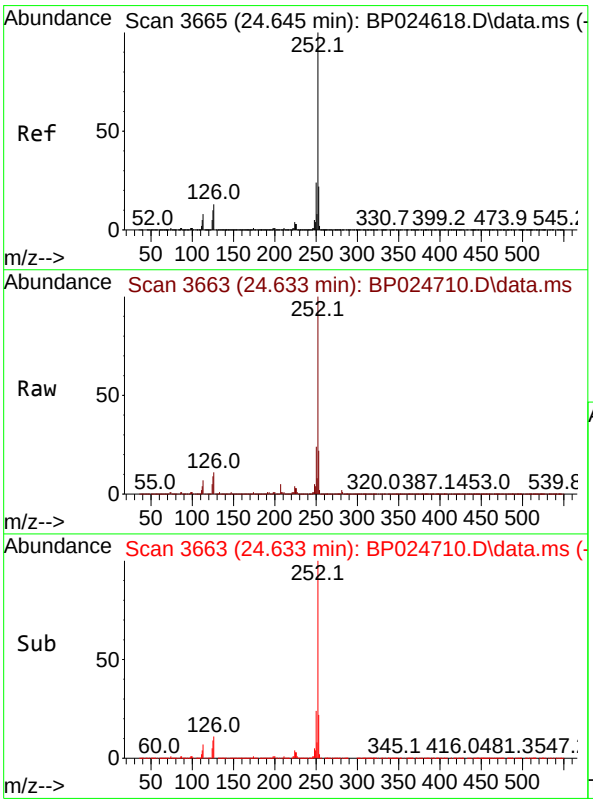
#89
Benzo(k)fluoranthene
Concen: 42.432 ng
RT: 23.833 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:252 Resp: 2029278

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	7.8	7.0	10.4

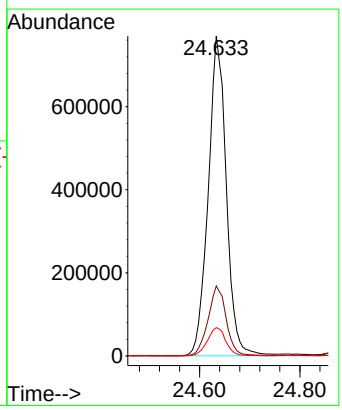


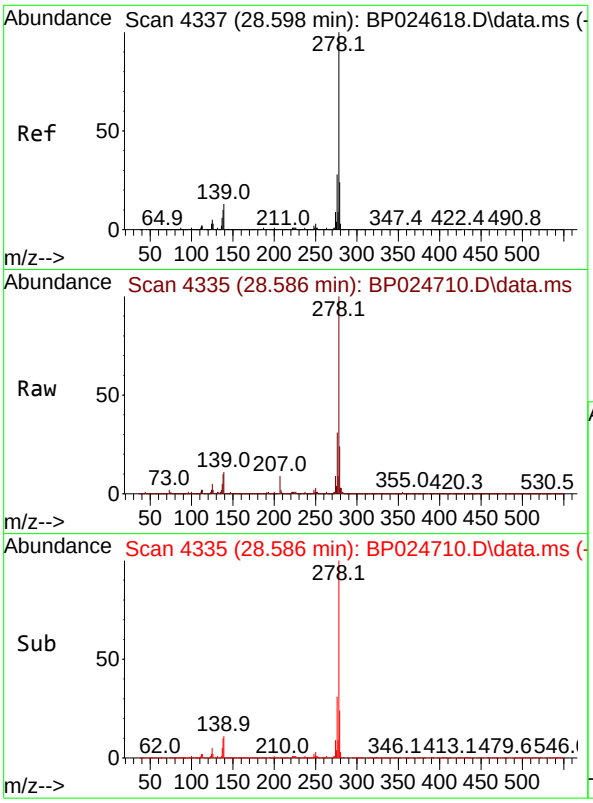


#90
Benzo(a)pyrene
Concen: 43.180 ng
RT: 24.633 min Scan# 3663
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:252 Resp: 1924735

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	8.8	8.1	12.1



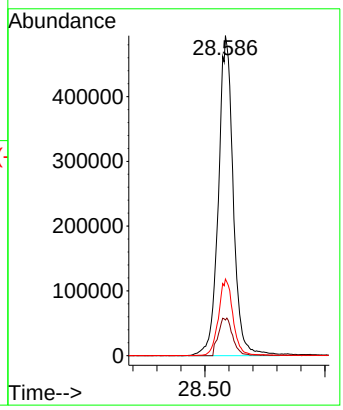


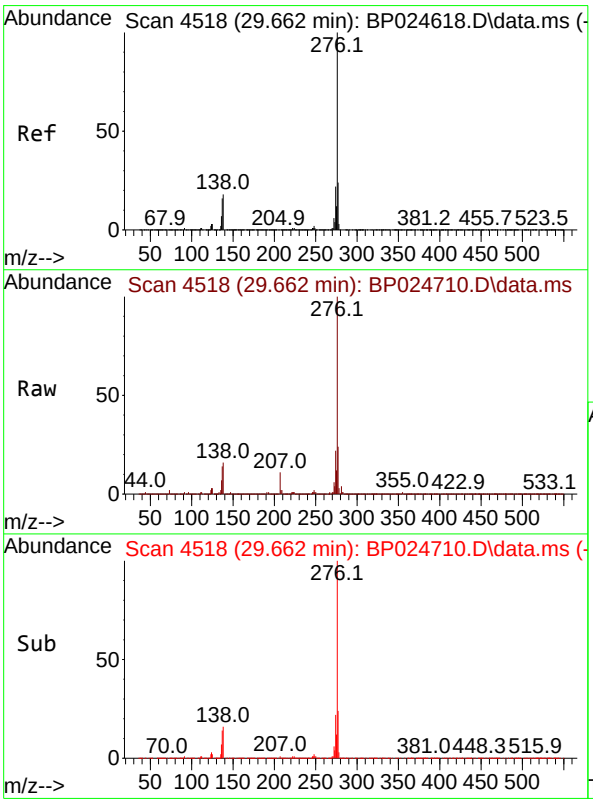
#91
Dibenzo(a,h)anthracene
Concen: 44.020 ng
RT: 28.586 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MS

Tgt Ion:278 Resp: 2119937

Ion	Ratio	Lower	Upper
278	100		
139	11.1	10.2	15.4
279	24.0	19.0	28.4

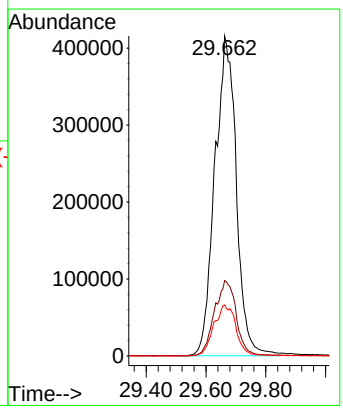




#92
Benzo(g,h,i)perylene
Concen: 43.135 ng
RT: 29.662 min Scan# 4518
Delta R.T. 0.000 min
Lab File: BP024710.D
Acq: 20 May 2025 16:38

Tgt Ion:276 Resp: 2065785

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.0	28.4
138	16.0	14.4	21.6



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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/08/25
Project:	Raymark Superfund Site	Date Received:	05/09/25
Client Sample ID:	TP-13MSD	SDG No.:	Q1984
Lab Sample ID:	Q2010-02MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.4
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024639.D	1	05/13/25 09:05	05/15/25 15:59	PB167973

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	1.80		0.027	0.15	0.20	mg/Kg
91-57-6	2-Methylnaphthalene	1.80		0.030	0.15	0.20	mg/Kg
208-96-8	Acenaphthylene	1.80		0.034	0.15	0.20	mg/Kg
83-32-9	Acenaphthene	1.80		0.025	0.15	0.20	mg/Kg
86-73-7	Fluorene	1.80		0.030	0.15	0.20	mg/Kg
85-01-8	Phenanthrene	1.80		0.025	0.15	0.20	mg/Kg
120-12-7	Anthracene	1.80		0.039	0.15	0.20	mg/Kg
206-44-0	Fluoranthene	1.80		0.036	0.15	0.20	mg/Kg
129-00-0	Pyrene	1.90		0.043	0.15	0.20	mg/Kg
56-55-3	Benzo(a)anthracene	1.90		0.027	0.15	0.20	mg/Kg
218-01-9	Chrysene	1.80		0.024	0.15	0.20	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.90		0.023	0.15	0.20	mg/Kg
207-08-9	Benzo(k)fluoranthene	1.80		0.027	0.15	0.20	mg/Kg
50-32-8	Benzo(a)pyrene	1.90		0.035	0.15	0.20	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.90		0.035	0.15	0.20	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	1.90		0.033	0.15	0.20	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.90		0.030	0.15	0.20	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	52.4		37 - 122		52%	SPK: 100
321-60-8	2-Fluorobiphenyl	50.9		44 - 115		51%	SPK: 100
1718-51-0	Terphenyl-d14	49.8	*	54 - 127		50%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	160000	7.657				
1146-65-2	Naphthalene-d8	629000	10.428				
15067-26-2	Acenaphthene-d10	376000	14.298				
1517-22-2	Phenanthrene-d10	727000	17.104				
1719-03-5	Chrysene-d12	786000	21.527				
1520-96-3	Perylene-d12	909000	24.798				

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/08/25
Project:	Raymark Superfund Site	Date Received:	05/09/25
Client Sample ID:	TP-13MSD	SDG No.:	Q1984
Lab Sample ID:	Q2010-02MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.4
Sample Wt/Vol:	30.01 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024639.D	1	05/13/25 09:05	05/15/25 15:59	PB167973

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_P\Data\BP051525\
Data File : BP024639.D
Acq On : 15 May 2025 15:59
Operator : RC/JU
Sample : Q2010-02MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Quant Time: May 15 16:30:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.657	152	159501	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	628820	20.000	ng	0.00
39) Acenaphthene-d10	14.298	164	375530	20.000	ng	0.00
64) Phenanthrene-d10	17.104	188	726778	20.000	ng	0.00
76) Chrysene-d12	21.527	240	785534	20.000	ng	0.00
86) Perylene-d12	24.798	264	909133	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	842673	90.362	ng	0.00
7) Phenol-d6	6.852	99	1048617	88.105	ng	0.00
23) Nitrobenzene-d5	8.810	82	651986	52.388	ng	0.00
42) 2,4,6-Tribromophenol	15.828	330	550955	86.542	ng	0.02
45) 2-Fluorobiphenyl	12.904	172	1458091	50.869	ng	0.00
79) Terphenyl-d14	19.821	244	2280930	49.789	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.228	88	165000	37.680	ng	99
3) Pyridine	3.616	79	403411	41.547	ng	98
4) n-Nitrosodimethylamine	3.534	42	186147	43.425	ng	97
6) Aniline	6.999	93	560425	36.471	ng	99
8) 2-Chlorophenol	7.240	128	504222	47.629	ng	99
9) Benzaldehyde	6.816	77	308327	40.019	ng	99
10) Phenol	6.881	94	590851	48.098	ng	98
11) bis(2-Chloroethyl)ether	7.093	93	429994	42.599	ng	99
12) 1,3-Dichlorobenzene	7.552	146	535369	43.956	ng	99
13) 1,4-Dichlorobenzene	7.693	146	543293	44.350	ng	99
14) 1,2-Dichlorobenzene	8.004	146	521355	43.677	ng	99
15) Benzyl Alcohol	7.904	79	417550	46.166	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.181	45	507595	41.990	ng	98
17) 2-Methylphenol	8.110	107	400289	45.432	ng	99
18) Hexachloroethane	8.722	117	205990	43.881	ng	96
19) n-Nitroso-di-n-propyla...	8.457	70	334353	40.611	ng	99
20) 3+4-Methylphenols	8.434	107	542791	45.290	ng	97
22) Acetophenone	8.475	105	708122	45.082	ng	98
24) Nitrobenzene	8.851	77	500401	45.690	ng	97
25) Isophorone	9.375	82	946143	43.827	ng	100
26) 2-Nitrophenol	9.551	139	268593	50.048	ng	98
27) 2,4-Dimethylphenol	9.622	122	454005	47.982	ng	100
28) bis(2-Chloroethoxy)met...	9.846	93	576552	44.702	ng	99
29) 2,4-Dichlorophenol	10.087	162	451816	49.275	ng	97
30) 1,2,4-Trichlorobenzene	10.293	180	477127	46.177	ng	97
31) Naphthalene	10.475	128	1467759	45.043	ng	100
32) Benzoic acid	9.787	122	322696	48.835	ng	99
33) 4-Chloroaniline	10.598	127	377895	28.739	ng	99
34) Hexachlorobutadiene	10.757	225	305965	45.710	ng	96
35) Caprolactam	11.381	113	152861m	46.078	ng	
36) 4-Chloro-3-methylphenol	11.734	107	518151	46.339	ng	100
37) 2-Methylnaphthalene	12.092	142	937935	44.452	ng	99
38) 1-Methylnaphthalene	12.316	142	959403	42.496	ng	99
40) 1,2,4,5-Tetrachloroben...	12.469	216	526111	48.245	ng	99
41) Hexachlorocyclopentadiene	12.445	237	753385	113.935	ng	98
43) 2,4,6-Trichlorophenol	12.710	196	366355	51.868	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024639.D
Acq On : 15 May 2025 15:59
Operator : RC/JU
Sample : Q2010-02MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Quant Time: May 15 16:30:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

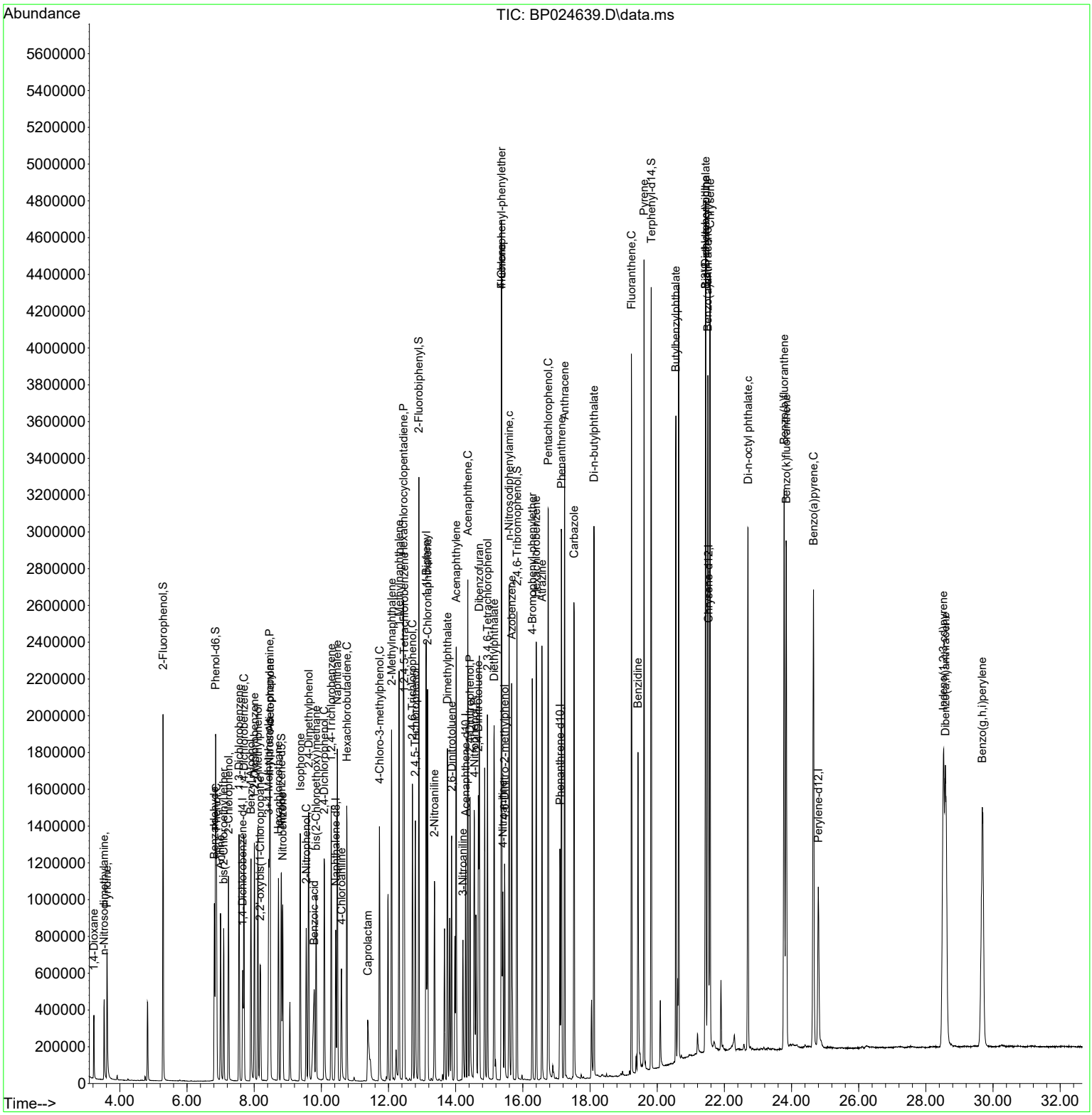
	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44)	2,4,5-Trichlorophenol	12.798	196	400383	50.924	ng		98
46)	1,1'-Biphenyl	13.122	154	1303750	46.972	ng		100
47)	2-Chloronaphthalene	13.163	162	996633	47.093	ng		100
48)	2-Nitroaniline	13.369	65	310532	49.562	ng		99
49)	Acenaphthylene	14.016	152	1622651	45.817	ng		100
50)	Dimethylphthalate	13.757	163	1292316	45.149	ng		100
51)	2,6-Dinitrotoluene	13.881	165	279686	46.267	ng		98
52)	Acenaphthene	14.363	154	927052	45.533	ng		99
53)	3-Nitroaniline	14.216	138	207346	33.592	ng		97
54)	2,4-Dinitrophenol	14.428	184	370998	95.940	ng		98
55)	Dibenzofuran	14.704	168	1468896	45.231	ng		98
56)	4-Nitrophenol	14.557	139	516252	95.730	ng		98
57)	2,4-Dinitrotoluene	14.675	165	401464	47.107	ng		99
58)	Fluorene	15.363	166	1214988	45.883	ng		99
59)	2,3,4,6-Tetrachlorophenol	14.945	232	353018	48.402	ng		99
60)	Diethylphthalate	15.145	149	1325337	45.812	ng		100
61)	4-Chlorophenyl-phenyle...	15.363	204	601374	45.538	ng		99
62)	4-Nitroaniline	15.404	138	294125	49.350	ng		99
63)	Azobenzene	15.669	77	1233658	49.848	ng		97
65)	4,6-Dinitro-2-methylph...	15.457	198	237337	50.556	ng		98
66)	n-Nitrosodiphenylamine	15.592	169	1052029	47.126	ng		99
67)	4-Bromophenyl-phenylether	16.280	248	408770	47.731	ng		98
68)	Hexachlorobenzene	16.398	284	508136	46.695	ng		99
69)	Atrazine	16.569	200	389218	47.576	ng		98
70)	Pentachlorophenol	16.757	266	671128	109.866	ng		99
71)	Phenanthrene	17.151	178	1855042	45.914	ng		100
72)	Anthracene	17.245	178	1890233	46.501	ng		100
73)	Carbazole	17.522	167	1770616	48.125	ng		100
74)	Di-n-butylphthalate	18.116	149	2304897	48.711	ng		99
75)	Fluoranthene	19.233	202	2177024	46.096	ng		100
77)	Benzidine	19.427	184	1216882	56.878	ng		99
78)	Pyrene	19.610	202	2253283	47.874	ng		100
80)	Butylbenzylphthalate	20.557	149	1060952	50.684	ng		96
81)	Benzo(a)anthracene	21.510	228	2338691	47.414	ng		99
82)	3,3'-Dichlorobenzidine	21.439	252	622869	33.999	ng		100
83)	Chrysene	21.574	228	2179347	46.609	ng		100
84)	Bis(2-ethylhexyl)phtha...	21.445	149	1512698	49.165	ng		100
85)	Di-n-octyl phthalate	22.704	149	2553144	50.745	ng		100
87)	Indeno(1,2,3-cd)pyrene	28.521	276	3226858	48.618	ng	#	85
88)	Benzo(b)fluoranthene	23.780	252	2476684	47.594	ng		100
89)	Benzo(k)fluoranthene	23.845	252	2478499	46.222	ng		99
90)	Benzo(a)pyrene	24.657	252	2397923	47.980	ng		99
91)	Dibenzo(a,h)anthracene	28.586	278	2621583	48.552	ng		100
92)	Benzo(g,h,i)perylene	29.680	276	2625102	48.888	ng		100

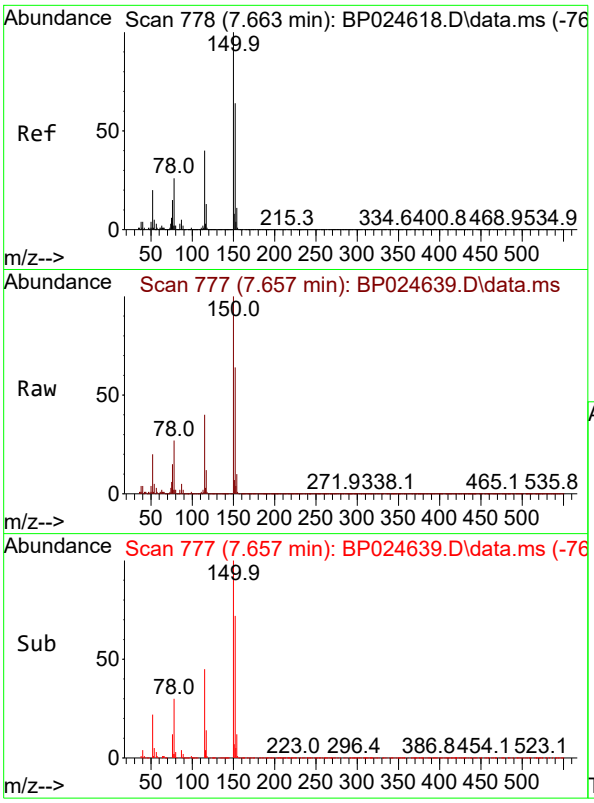
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024639.D
Acq On : 15 May 2025 15:59
Operator : RC/JU
Sample : Q2010-02MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Quant Time: May 15 16:30:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



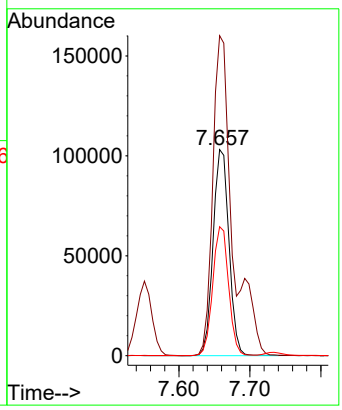


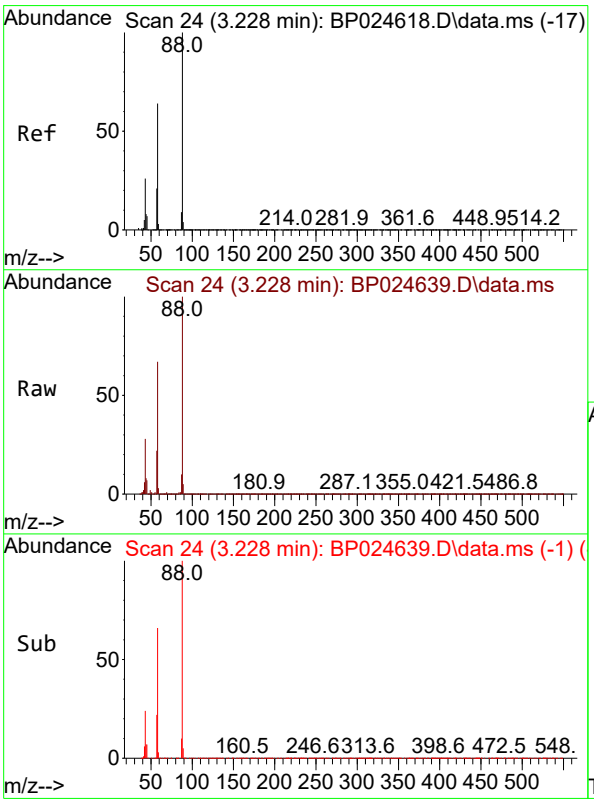
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.657 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:152 Resp: 159501

Ion	Ratio	Lower	Upper
152	100		
150	155.2	125.9	188.9
115	62.6	50.1	75.1

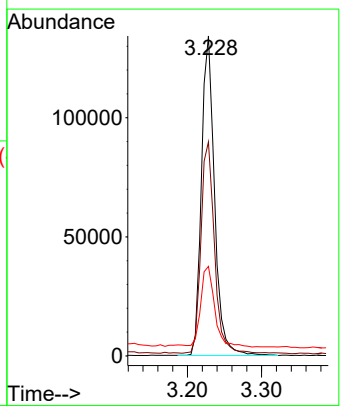


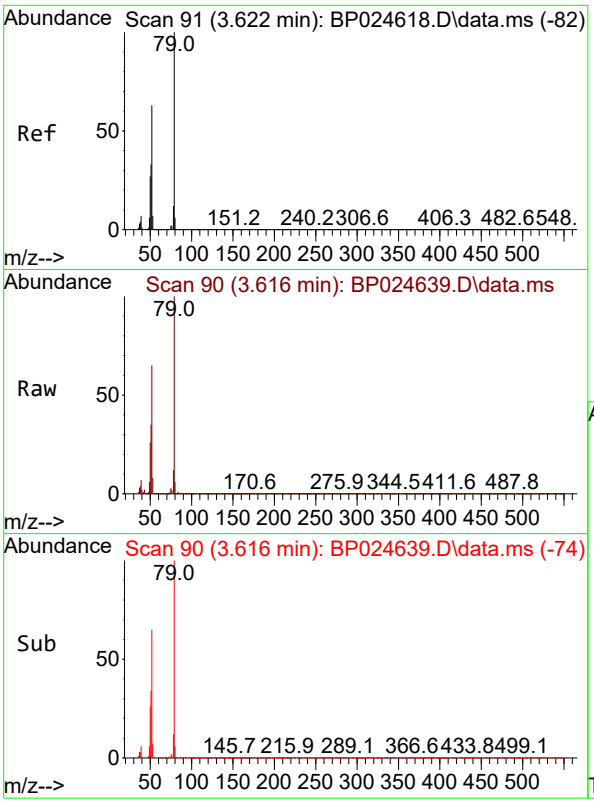


#2
1,4-Dioxane
Concen: 37.680 ng
RT: 3.228 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 88 Resp: 165000

Ion	Ratio	Lower	Upper
88	100		
58	68.7	54.0	81.0
43	27.0	21.4	32.0



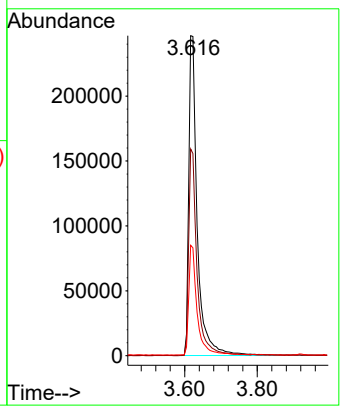


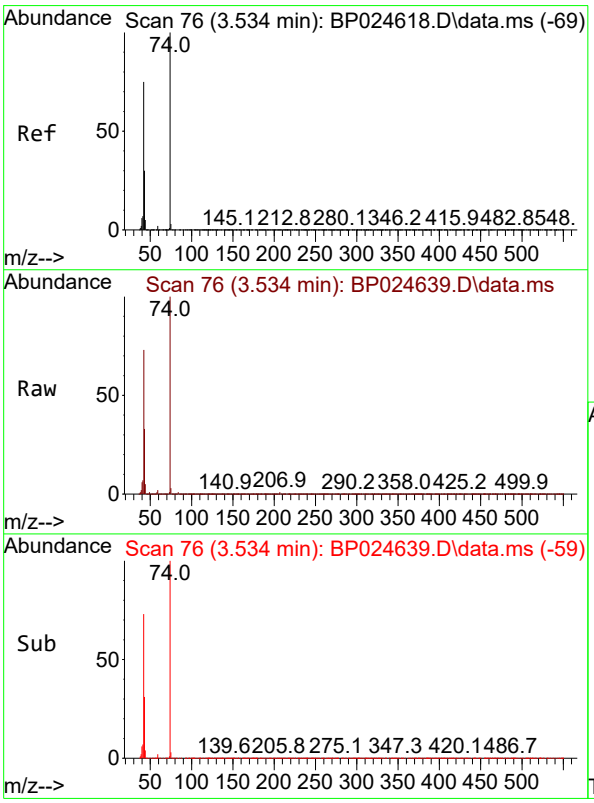
#3
Pyridine
Concen: 41.547 ng
RT: 3.616 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 79 Resp: 403411

Ion	Ratio	Lower	Upper
79	100		
52	64.6	50.2	75.2
51	34.5	26.8	40.2

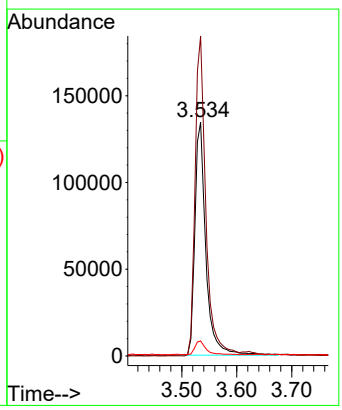


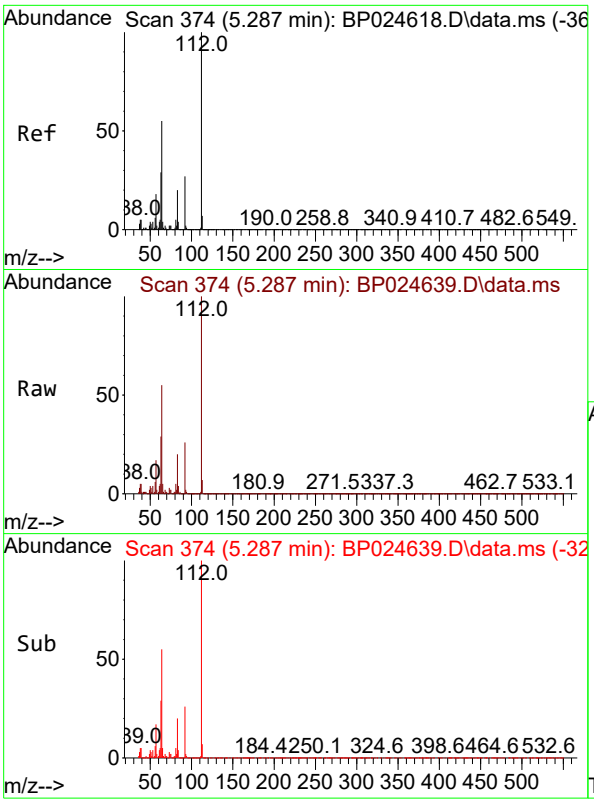


#4
n-Nitrosodimethylamine
Concen: 43.425 ng
RT: 3.534 min Scan# 76
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 42 Resp: 186147

Ion	Ratio	Lower	Upper
42	100		
74	136.8	106.2	159.2
44	6.4	5.4	8.2



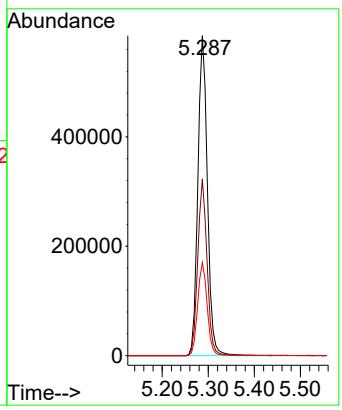


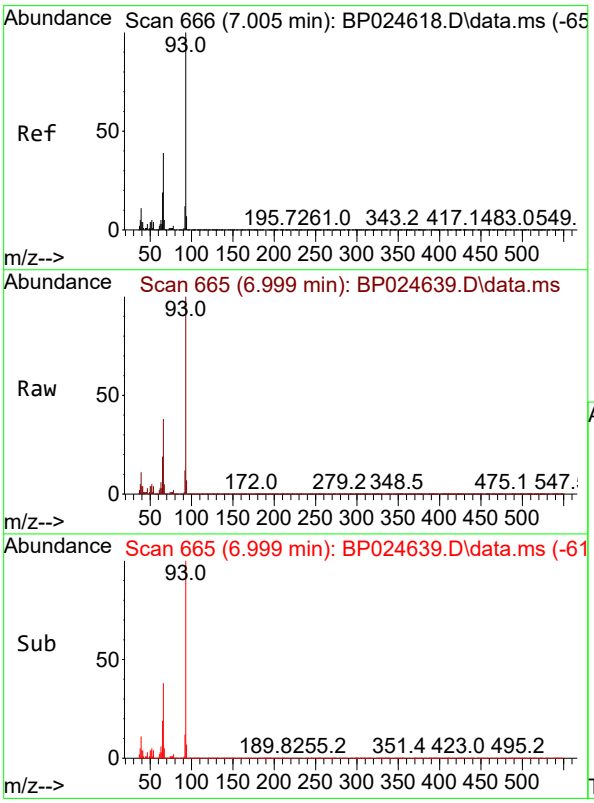
#5
2-Fluorophenol
Concen: 90.362 ng
RT: 5.287 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:112 Resp: 842673

Ion	Ratio	Lower	Upper
112	100		
64	55.3	44.1	66.1
63	29.1	23.5	35.3

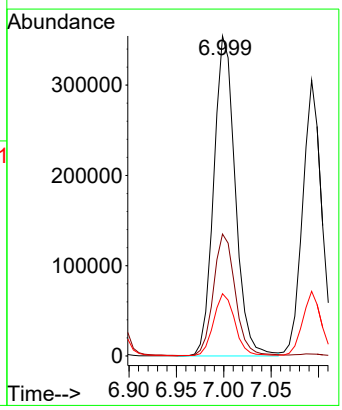


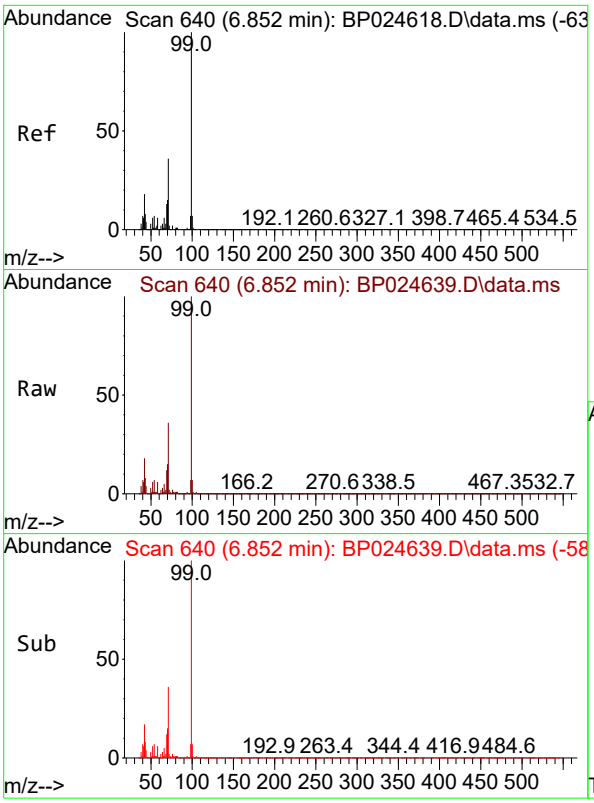


#6
Aniline
Concen: 36.471 ng
RT: 6.999 min Scan# 665
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 93 Resp: 560425

Ion	Ratio	Lower	Upper
93	100		
66	38.1	31.0	46.6
65	19.5	15.5	23.3



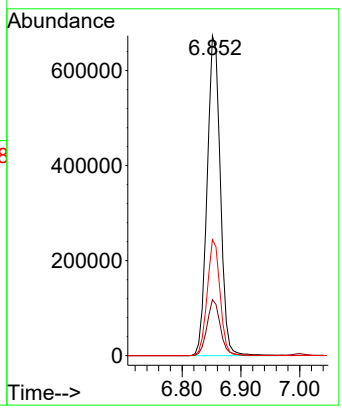


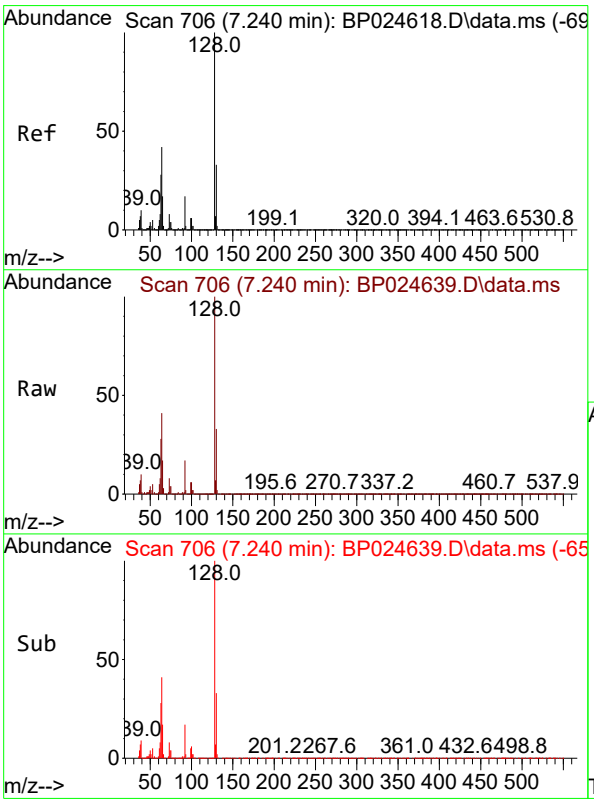
#7
Phenol-d6
Concen: 88.105 ng
RT: 6.852 min Scan# 64
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 99 Resp: 1048617

Ion	Ratio	Lower	Upper
99	100		
42	17.5	14.4	21.6
71	36.3	29.2	43.8

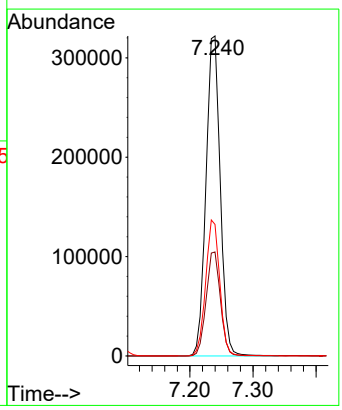


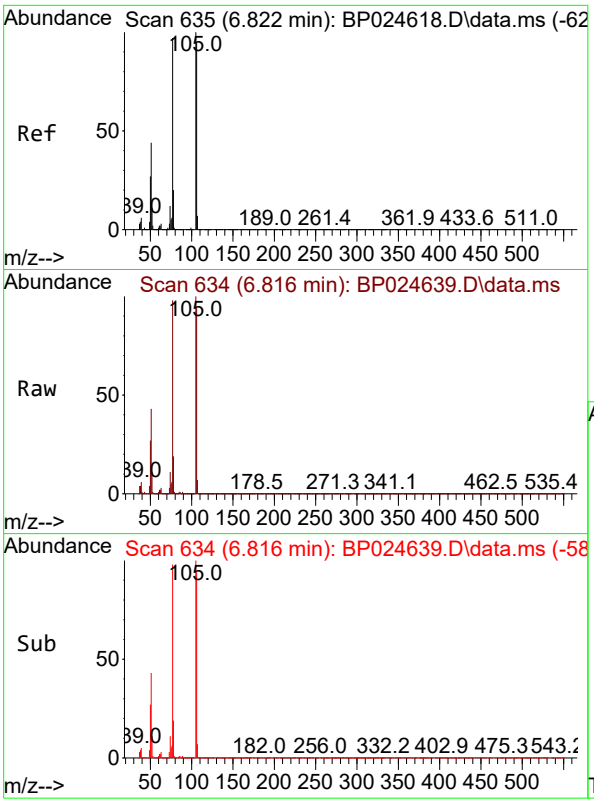


#8
2-Chlorophenol
Concen: 47.629 ng
RT: 7.240 min Scan# 706
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:128 Resp: 504222

Ion	Ratio	Lower	Upper
128	100		
130	32.5	13.0	53.0
64	41.1	22.3	62.3



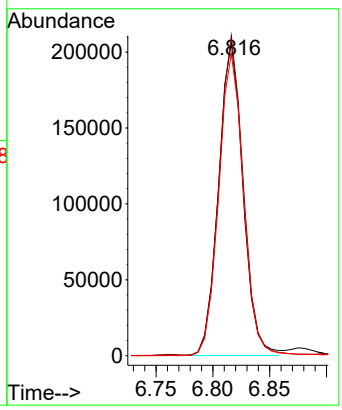


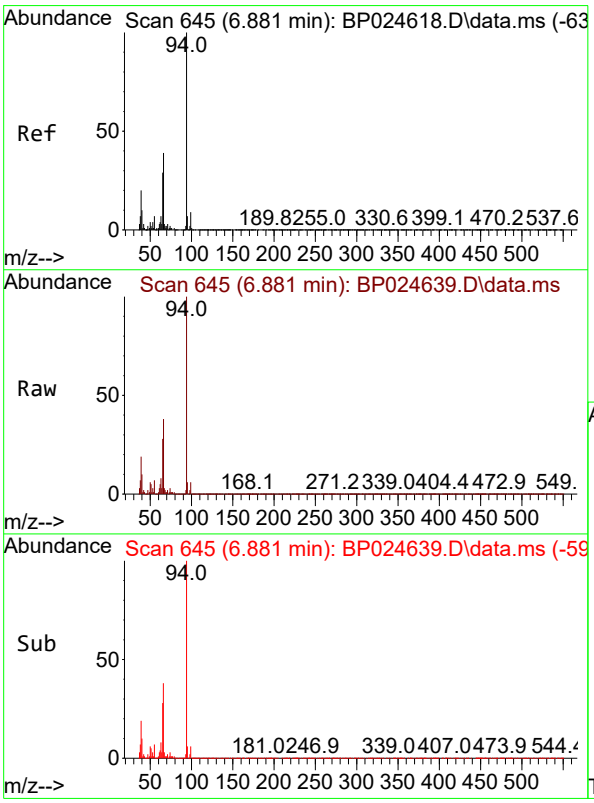
#9
Benzaldehyde
Concen: 40.019 ng
RT: 6.816 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 77 Resp: 308327

Ion	Ratio	Lower	Upper
77	100		
105	102.4	83.3	123.3
106	96.6	78.0	118.0

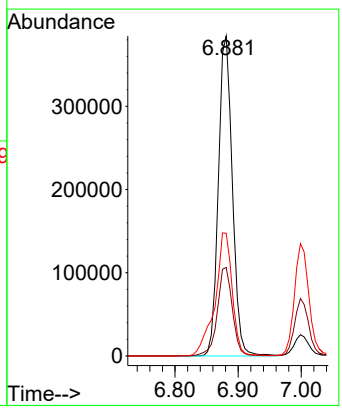


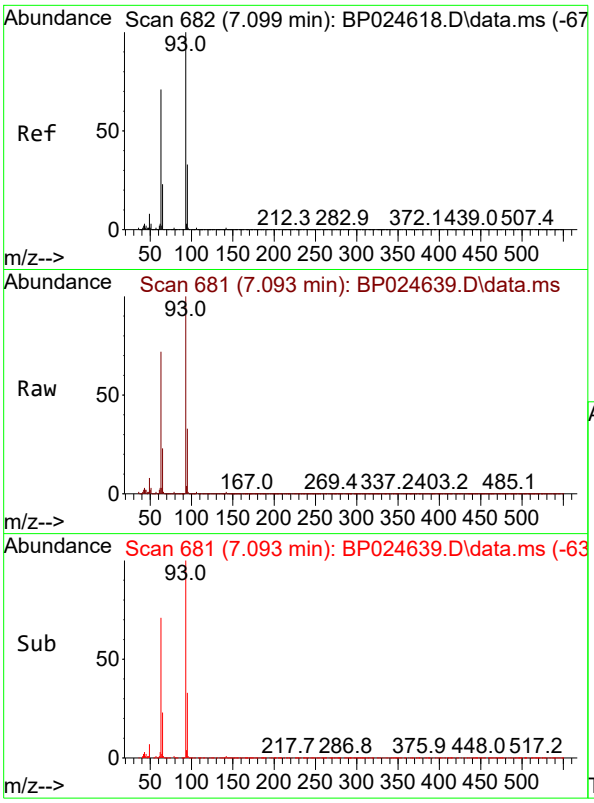


#10
Phenol
Concen: 48.098 ng
RT: 6.881 min Scan# 645
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 94 Resp: 590851

Ion	Ratio	Lower	Upper
94	100		
65	27.7	8.7	48.7
66	38.3	19.4	59.4



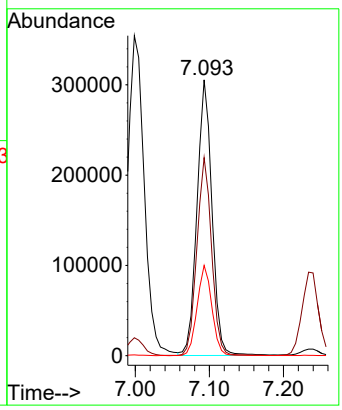


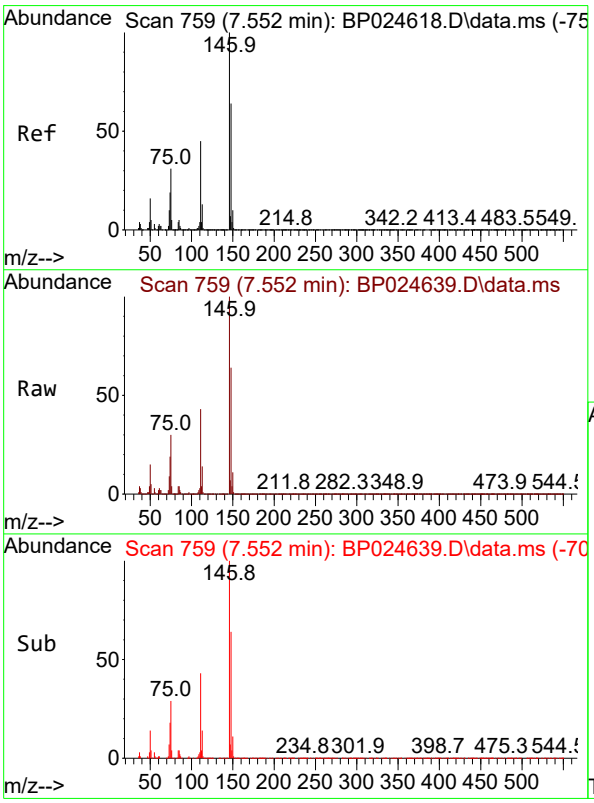
#11
bis(2-Chloroethyl)ether
Concen: 42.599 ng
RT: 7.093 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 93 Resp: 429994

Ion	Ratio	Lower	Upper
93	100		
63	71.8	50.6	90.6
95	32.7	12.9	52.9

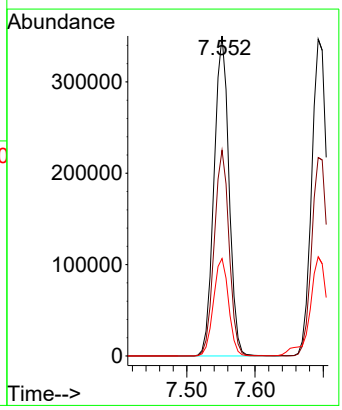


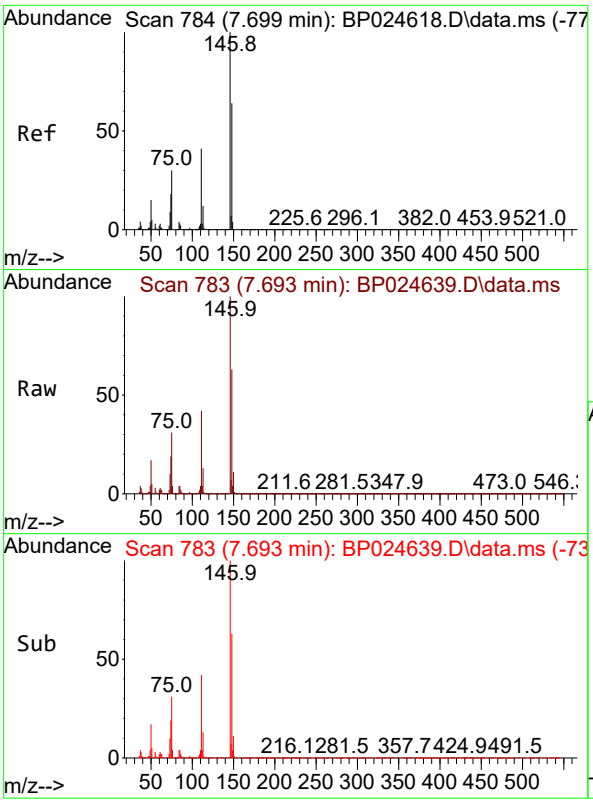


#12
1,3-Dichlorobenzene
Concen: 43.956 ng
RT: 7.552 min Scan# 759
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:146 Resp: 535369

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.4	77.2
75	30.4	25.2	37.8



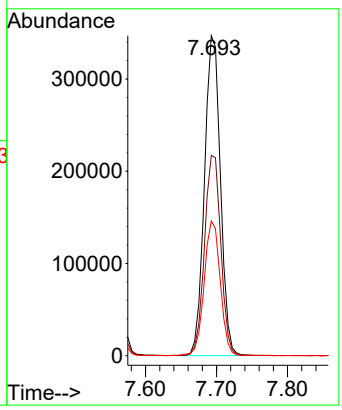


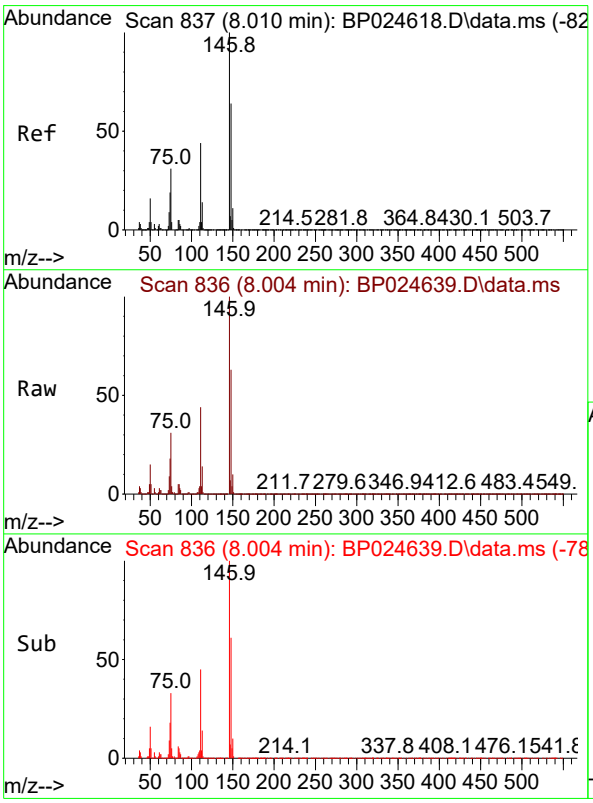
#13
1,4-Dichlorobenzene
Concen: 44.350 ng
RT: 7.693 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:146 Resp: 543293

Ion	Ratio	Lower	Upper
146	100		
148	62.6	51.0	76.6
111	42.1	33.0	49.6

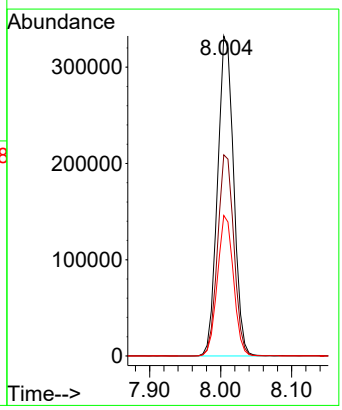


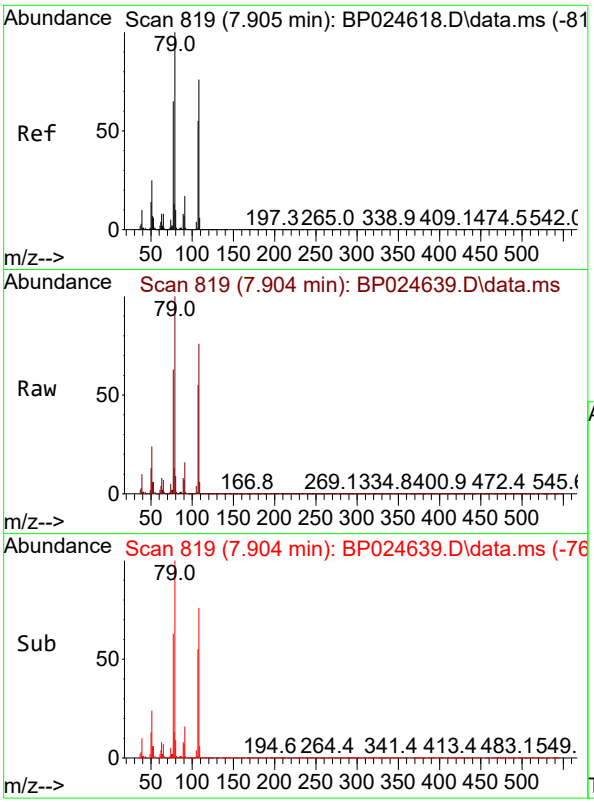


#14
1,2-Dichlorobenzene
Concen: 43.677 ng
RT: 8.004 min Scan# 836
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:146 Resp: 521355

Ion	Ratio	Lower	Upper
146	100		
148	62.9	51.0	76.4
111	43.9	35.2	52.8



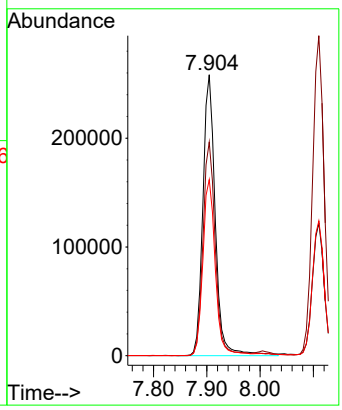


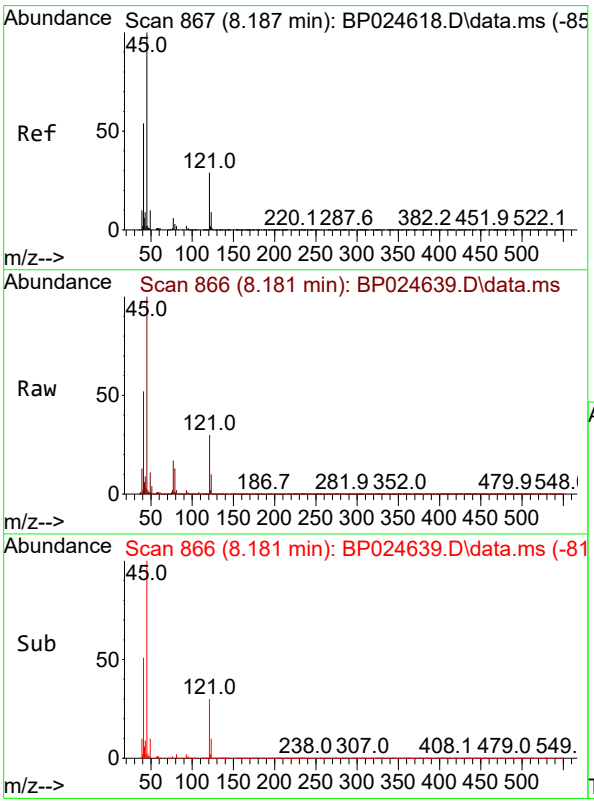
#15
Benzyl Alcohol
Concen: 46.166 ng
RT: 7.904 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 79 Resp: 417550

Ion	Ratio	Lower	Upper
79	100		
108	76.0	60.8	91.2
77	62.6	51.9	77.9

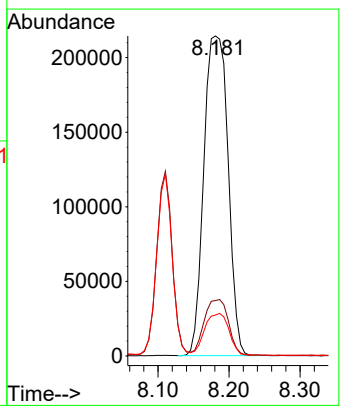


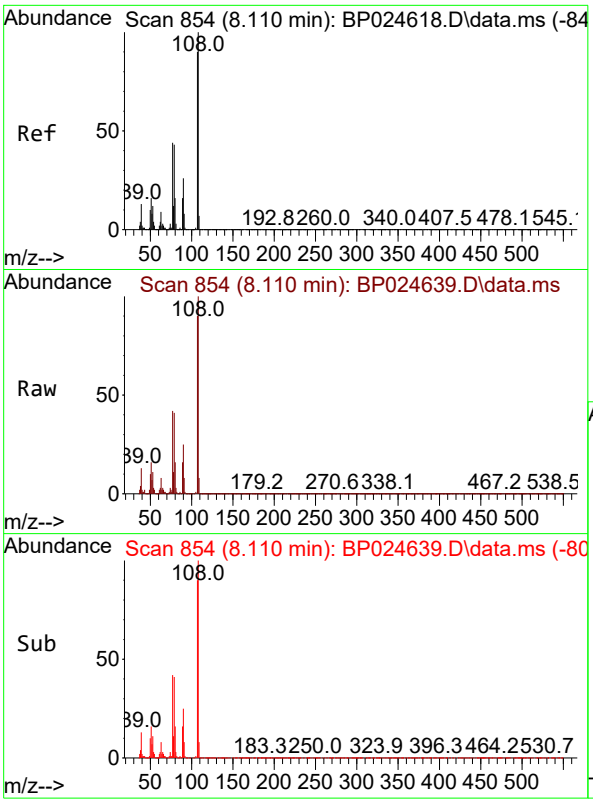


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.990 ng
RT: 8.181 min Scan# 866
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 45 Resp: 507595

Ion	Ratio	Lower	Upper
45	100		
77	17.3	0.0	37.7
79	12.8	0.0	34.0



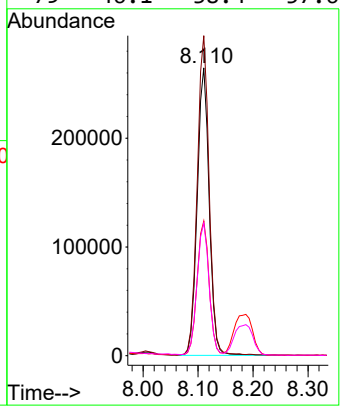


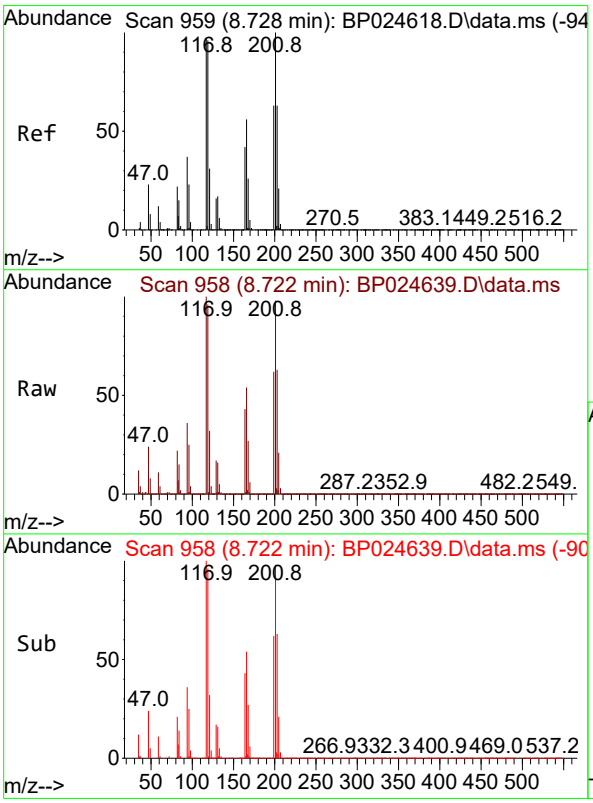
#17
2-Methylphenol
Concen: 45.432 ng
RT: 8.110 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:107 Resp: 400289

Ion	Ratio	Lower	Upper
107	100		
108	111.1	88.9	133.3
77	46.8	39.0	58.6
79	46.1	38.4	57.6

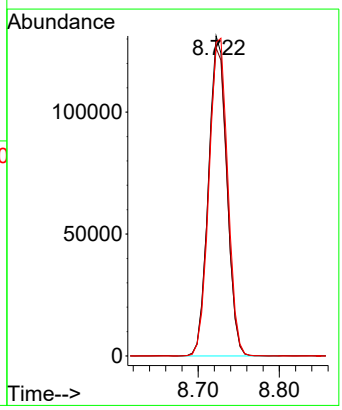


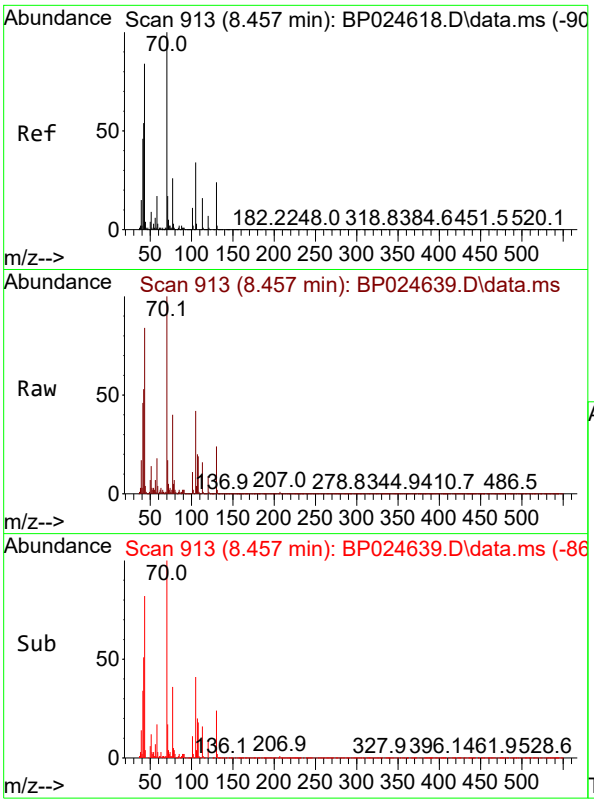


#18
Hexachloroethane
Concen: 43.881 ng
RT: 8.722 min Scan# 958
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:117 Resp: 205990

Ion	Ratio	Lower	Upper
117	100		
119	96.3	79.4	119.0
201	98.0	82.7	124.1



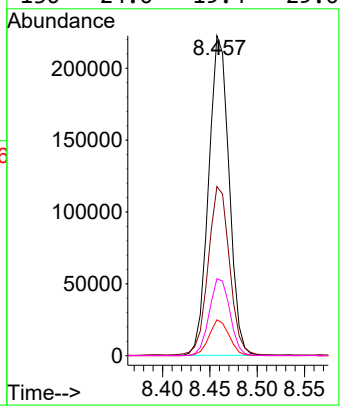


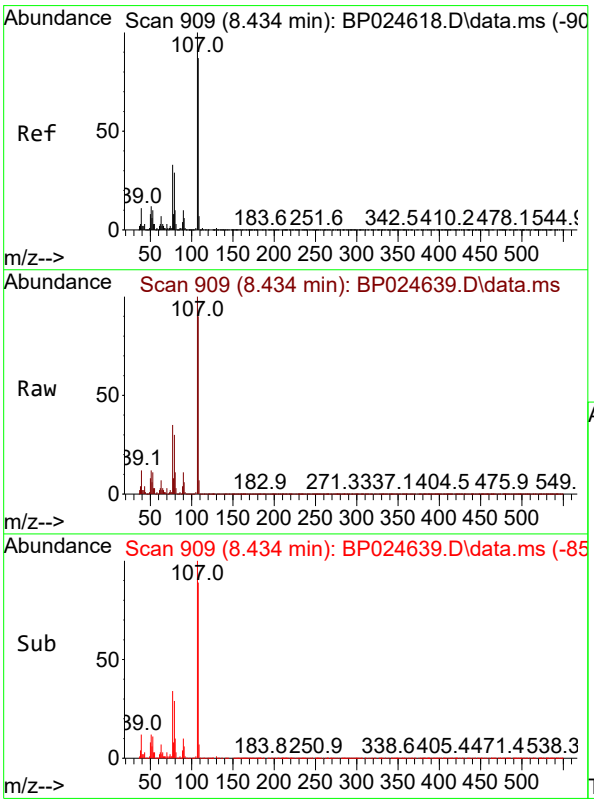
#19
n-Nitroso-di-n-propylamine
Concen: 40.611 ng
RT: 8.457 min Scan# 91
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 70 Resp: 334353

Ion	Ratio	Lower	Upper
70	100		
42	52.8	43.0	64.6
101	11.2	8.7	13.1
130	24.0	19.4	29.0

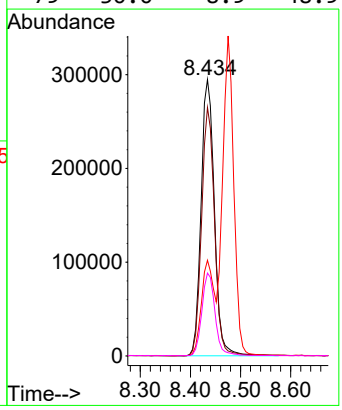


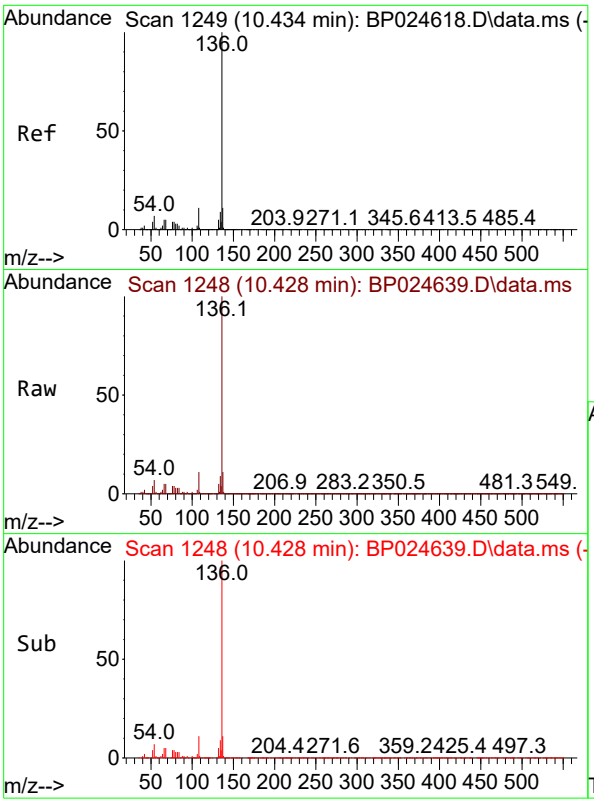


#20
3+4-Methylphenols
Concen: 45.290 ng
RT: 8.434 min Scan# 909
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:107 Resp: 542791

Ion	Ratio	Lower	Upper
107	100		
108	89.9	66.7	106.7
77	34.6	13.1	53.1
79	30.0	8.9	48.9



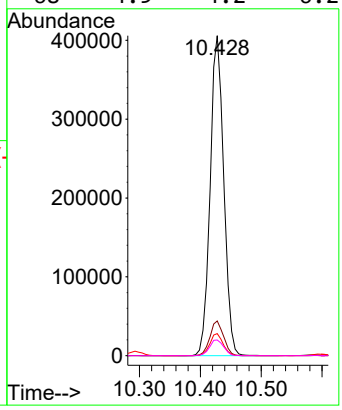


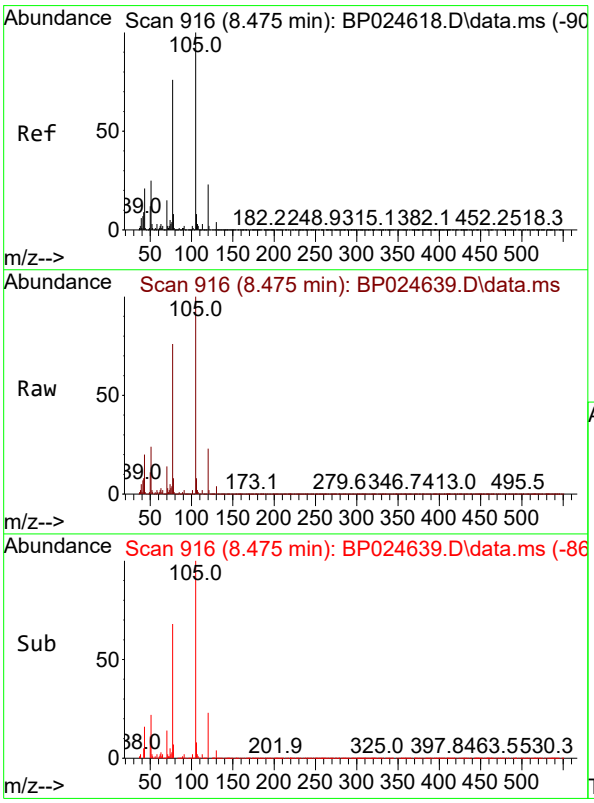
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:136 Resp: 628820

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	6.9	5.5	8.3
68	4.9	4.2	6.2

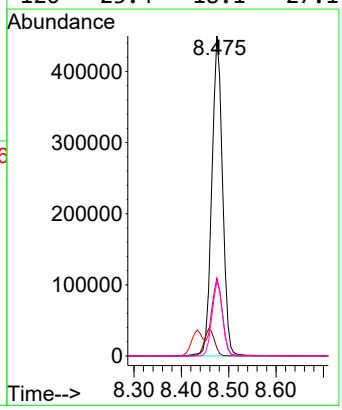


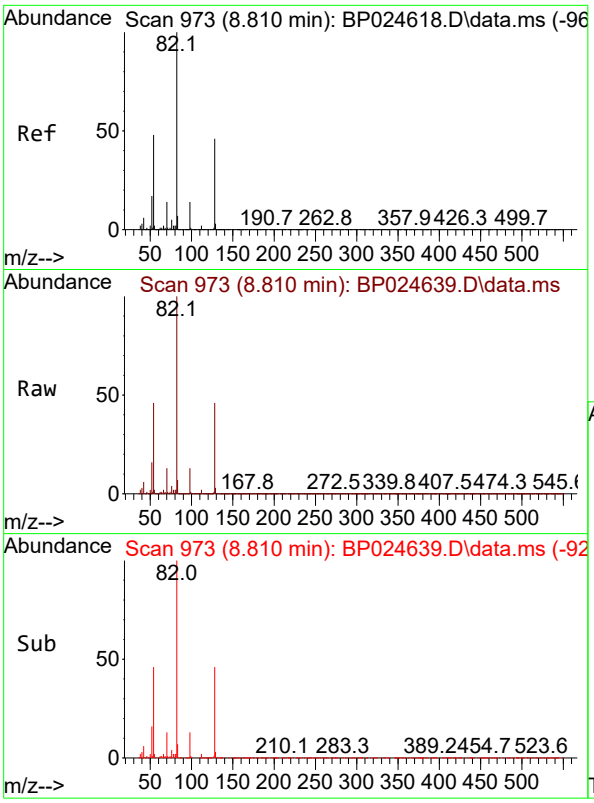


#22
Acetophenone
Concen: 45.082 ng
RT: 8.475 min Scan# 916
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:105 Resp: 708122

Ion	Ratio	Lower	Upper
105	100		
71	2.5	2.0	3.0
51	24.3	20.4	30.6
120	23.4	18.1	27.1



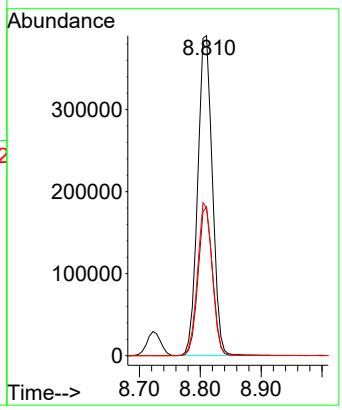


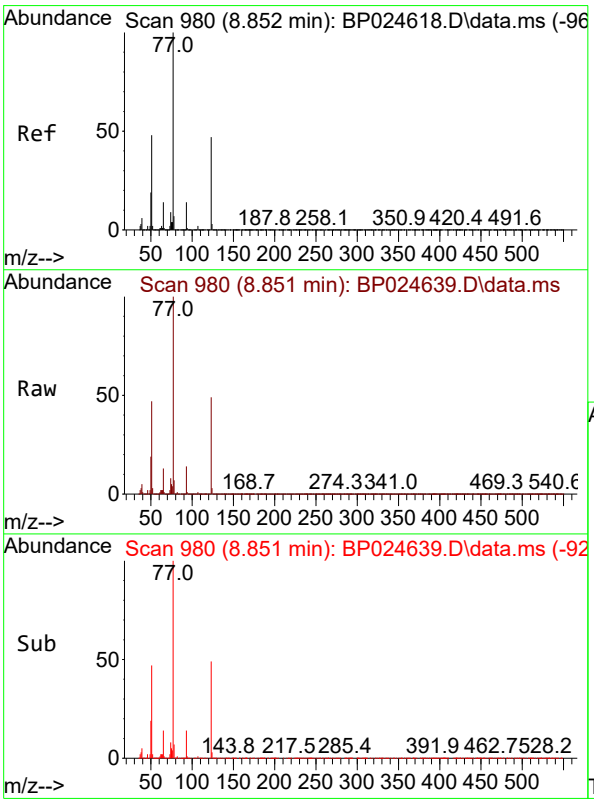
#23
Nitrobenzene-d5
Concen: 52.388 ng
RT: 8.810 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 82 Resp: 651986

Ion	Ratio	Lower	Upper
82	100		
128	46.5	37.0	55.4
54	46.1	38.7	58.1

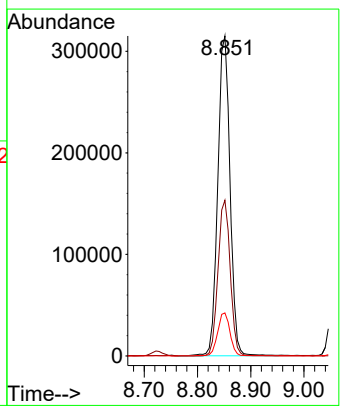


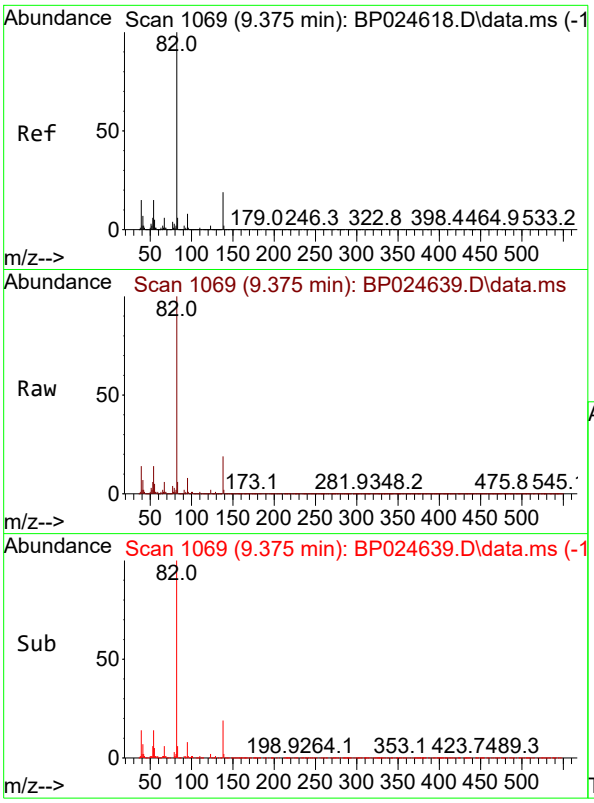


#24
Nitrobenzene
Concen: 45.690 ng
RT: 8.851 min Scan# 980
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 77 Resp: 500401

Ion	Ratio	Lower	Upper
77	100		
123	48.7	37.4	56.0
65	13.5	11.3	16.9



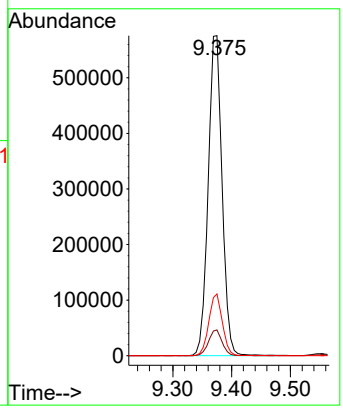


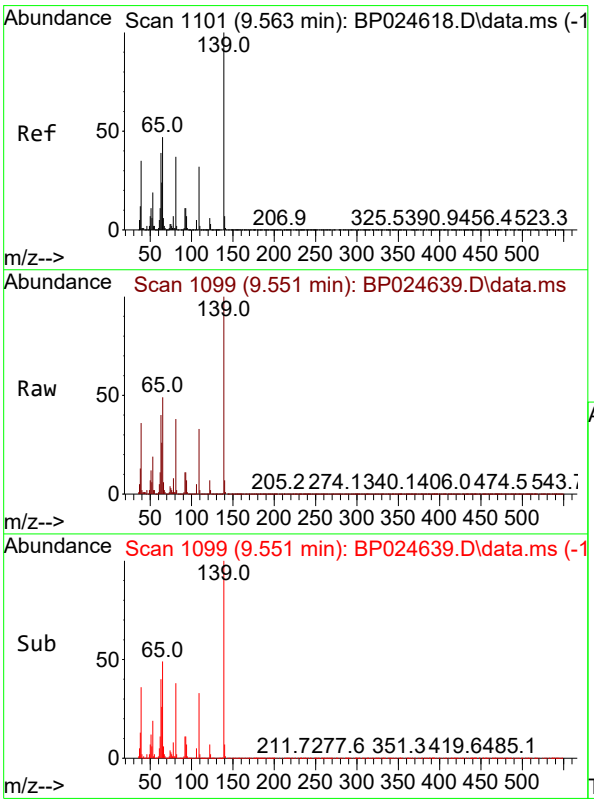
#25
Isophorone
Concen: 43.827 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 82 Resp: 946143

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.3	9.5
138	19.3	15.3	22.9

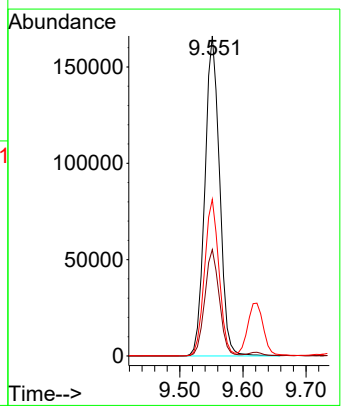


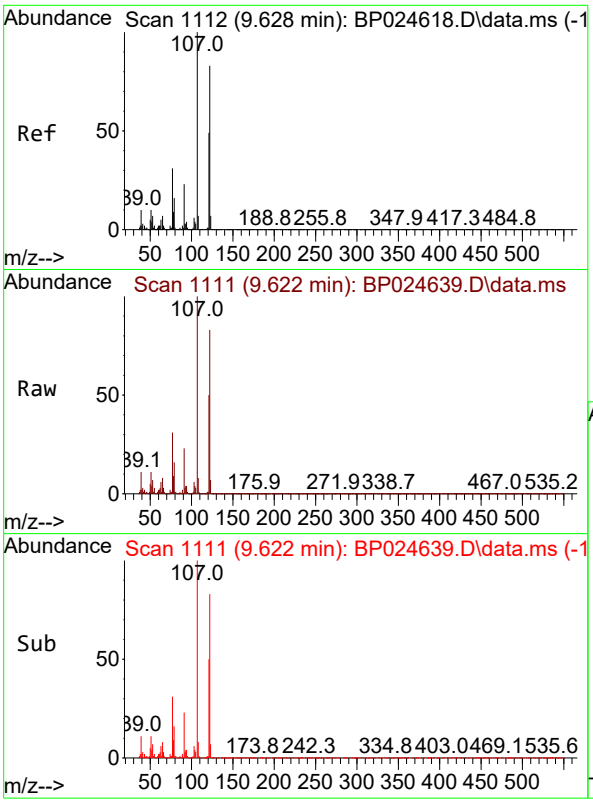


#26
2-Nitrophenol
Concen: 50.048 ng
RT: 9.551 min Scan# 1099
Delta R.T. -0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:139 Resp: 268593

Ion	Ratio	Lower	Upper
139	100		
109	33.2	25.9	38.9
65	48.9	37.9	56.9



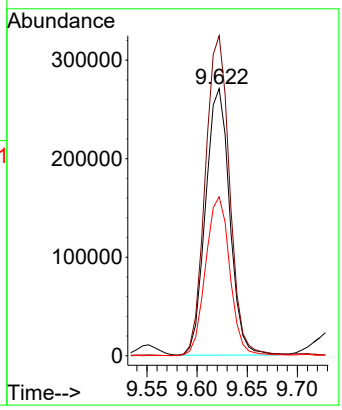


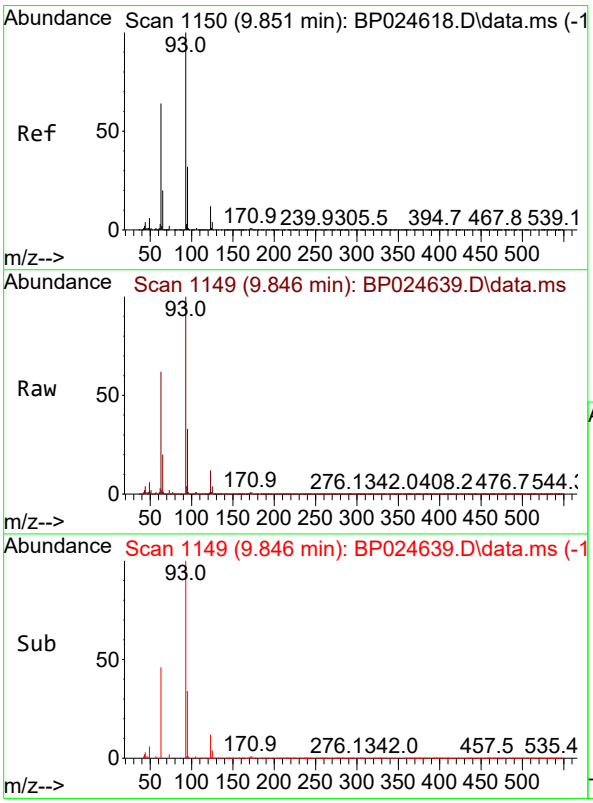
#27
2,4-Dimethylphenol
Concen: 47.982 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:122 Resp: 454005

Ion	Ratio	Lower	Upper
122	100		
107	119.8	96.2	144.2
121	59.5	47.6	71.4

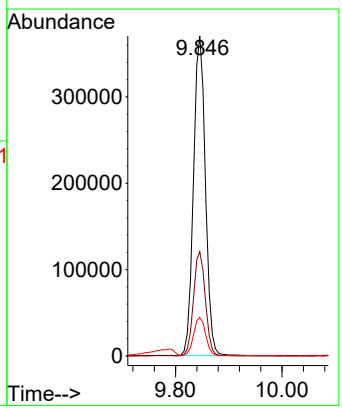


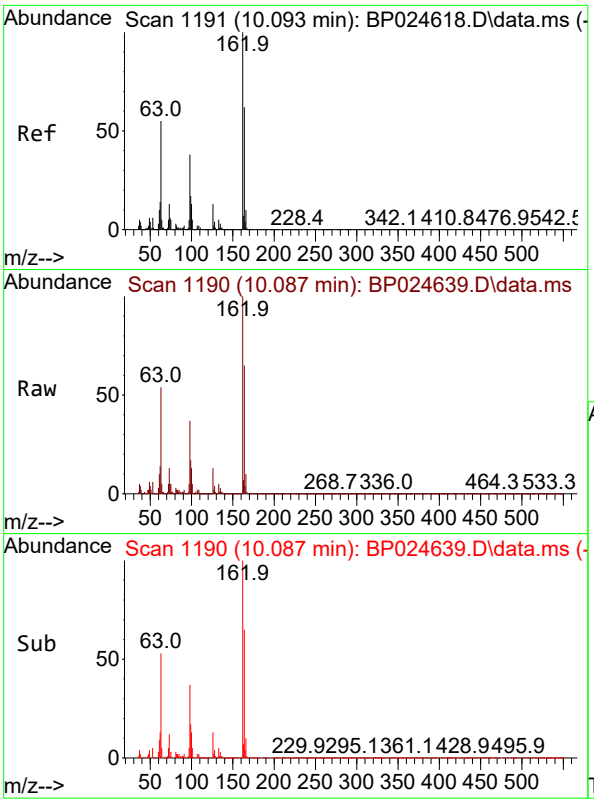


#28
bis(2-Chloroethoxy)methane
Concen: 44.702 ng
RT: 9.846 min Scan# 1149
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 93 Resp: 576552

Ion	Ratio	Lower	Upper
93	100		
95	32.6	25.5	38.3
123	12.1	9.7	14.5



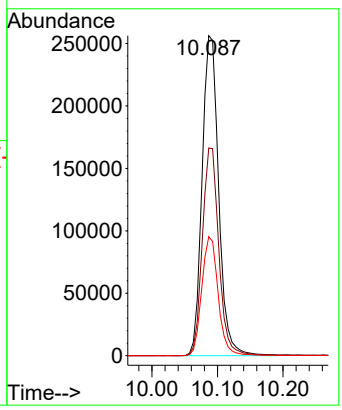


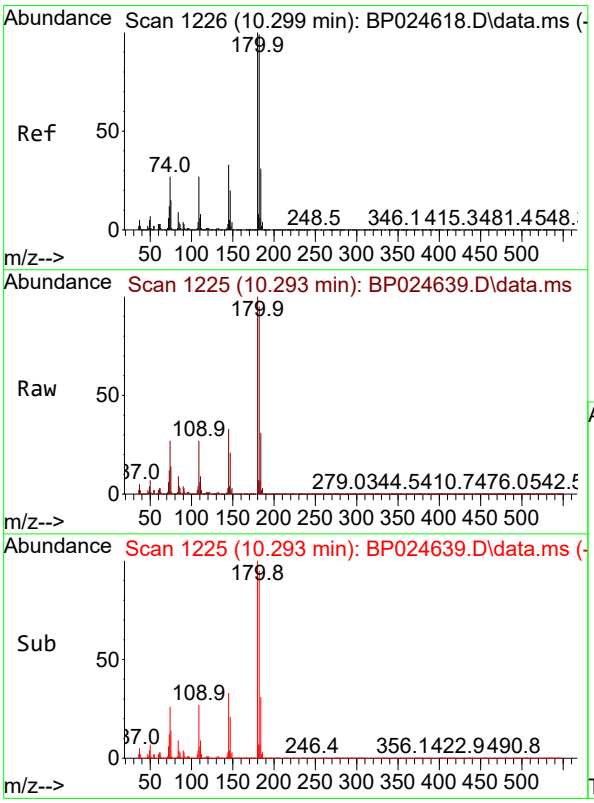
#29
2,4-Dichlorophenol
Concen: 49.275 ng
RT: 10.087 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:162 Resp: 451816

Ion	Ratio	Lower	Upper
162	100		
164	64.9	42.3	82.3
98	37.2	18.4	58.4

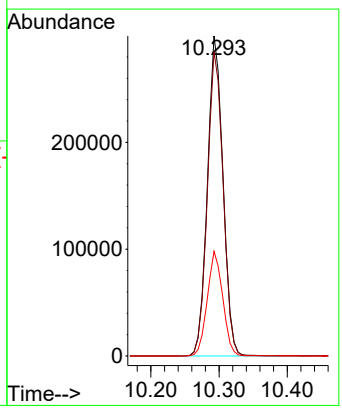


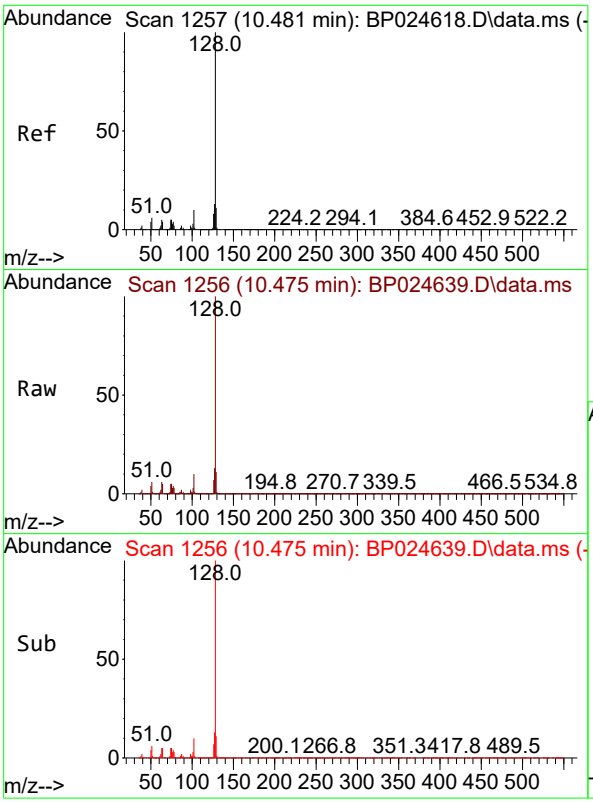


#30
1,2,4-Trichlorobenzene
Concen: 46.177 ng
RT: 10.293 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:180 Resp: 477127

Ion	Ratio	Lower	Upper
180	100		
182	95.1	79.0	118.4
145	32.7	26.6	39.8



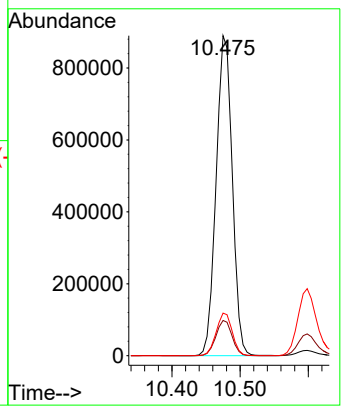


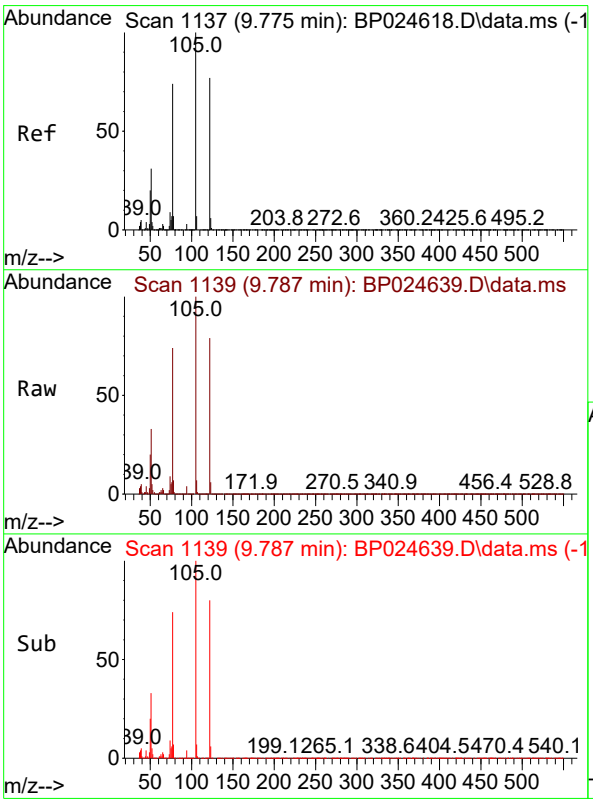
#31
Naphthalene
Concen: 45.043 ng
RT: 10.475 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:128 Resp: 1467759

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.3	10.7	16.1

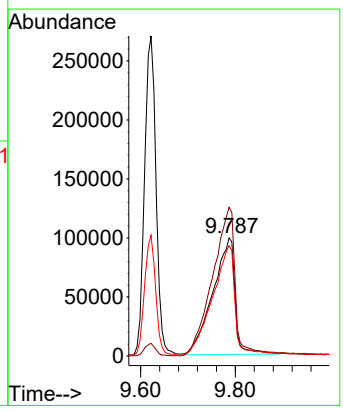


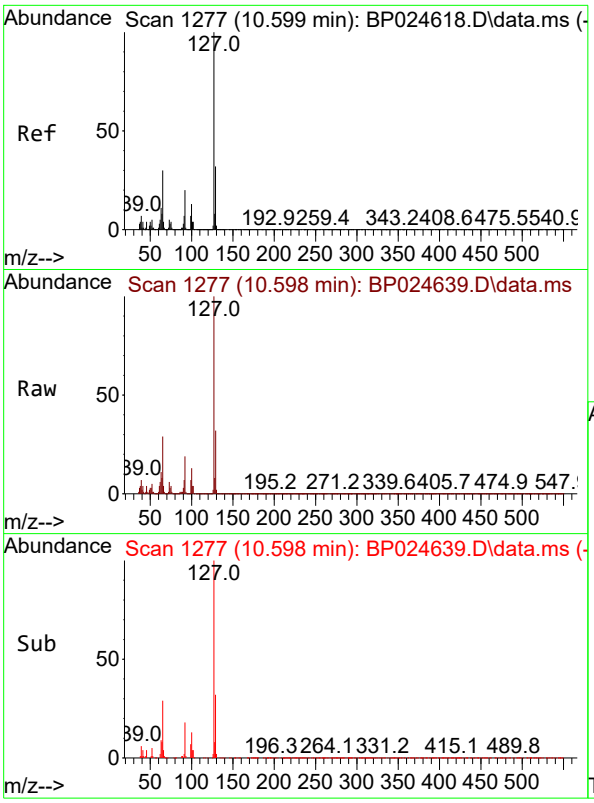


#32
Benzoic acid
Concen: 48.835 ng
RT: 9.787 min Scan# 1139
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:122 Resp: 322696

Ion	Ratio	Lower	Upper
122	100		
105	125.8	106.9	146.9
77	93.3	75.1	115.1



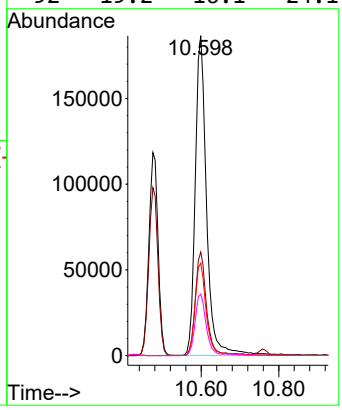


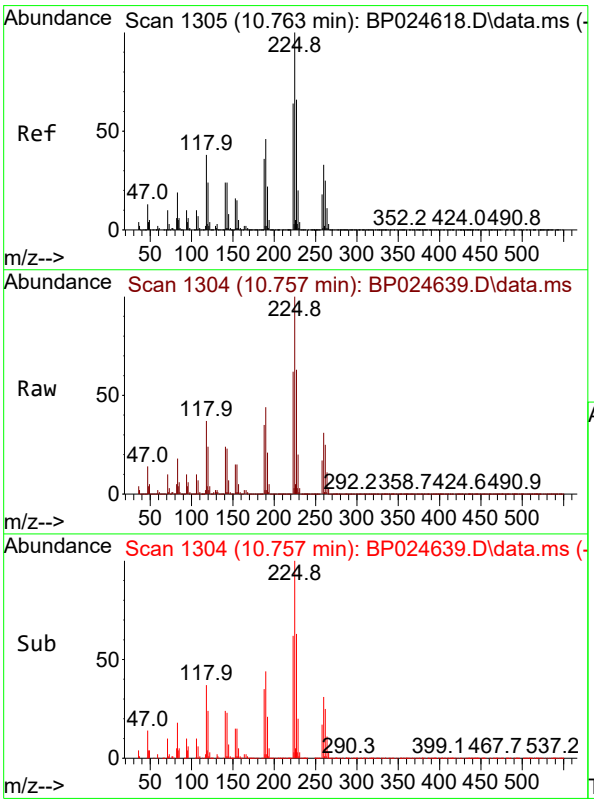
#33
4-Chloroaniline
Concen: 28.739 ng
RT: 10.598 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:127 Resp: 377895

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.8	38.6
65	28.9	23.9	35.9
92	19.2	16.1	24.1

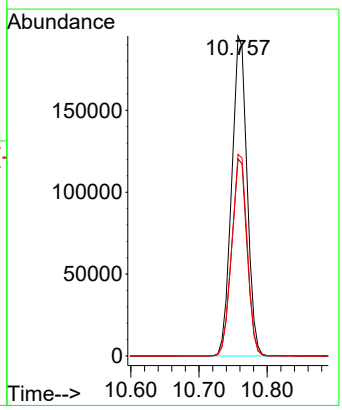


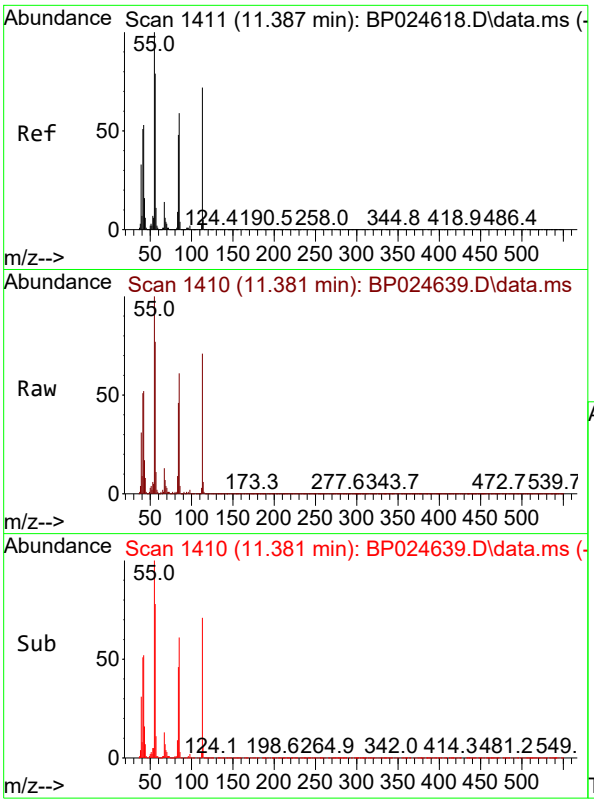


#34
Hexachlorobutadiene
Concen: 45.710 ng
RT: 10.757 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:225 Resp: 305965

Ion	Ratio	Lower	Upper
225	100		
223	61.6	51.0	76.6
227	63.0	53.1	79.7



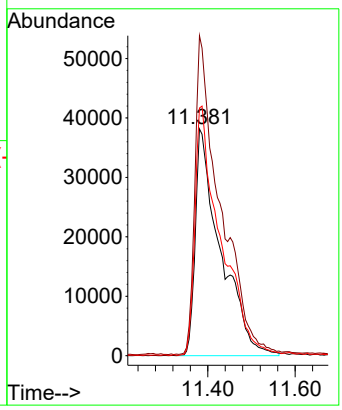


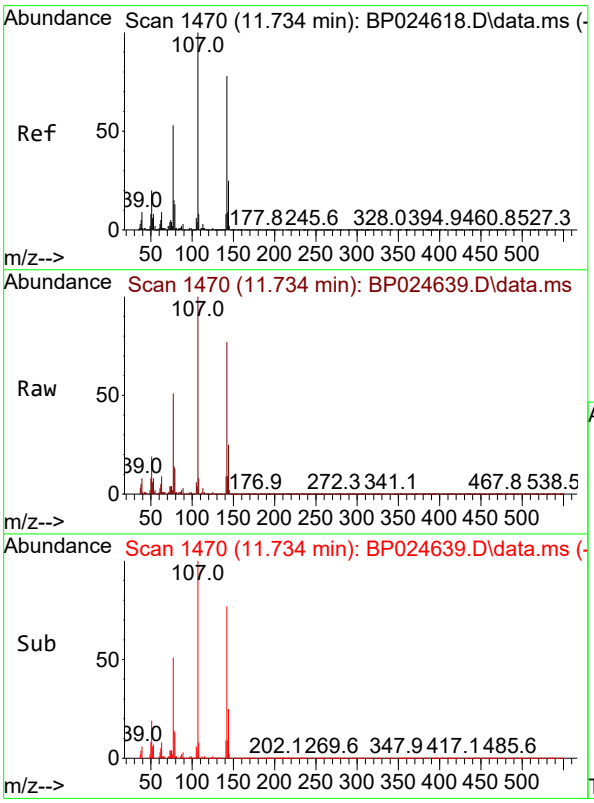
#35
Caprolactam
Concen: 46.078 ng m
RT: 11.381 min Scan# 14
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:113 Resp: 152861

Ion	Ratio	Lower	Upper
113	100		
55	141.1	119.0	159.0
56	109.3	90.3	130.3

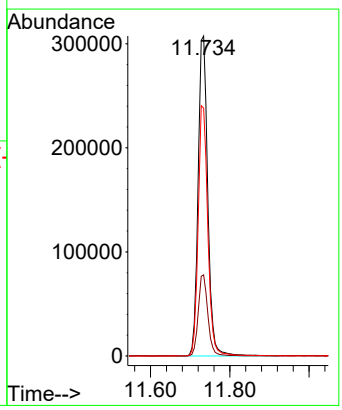


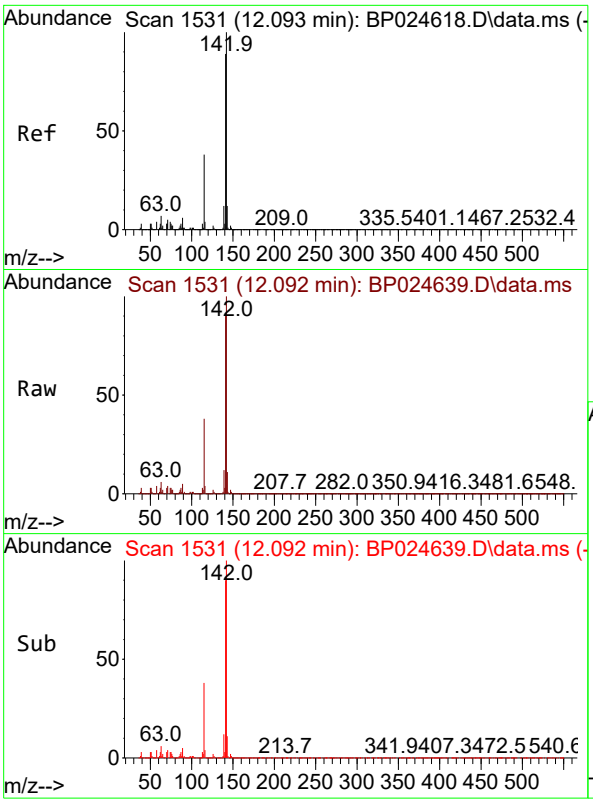


#36
4-Chloro-3-methylphenol
Concen: 46.339 ng
RT: 11.734 min Scan# 1470
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:107 Resp: 518151

Ion	Ratio	Lower	Upper
107	100		
144	25.3	20.1	30.1
142	77.4	62.1	93.1



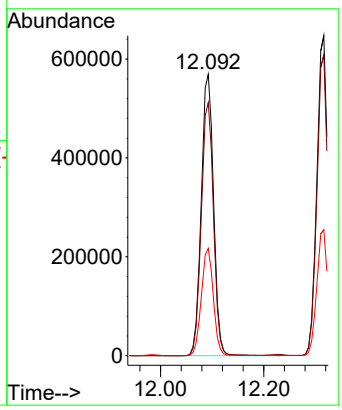


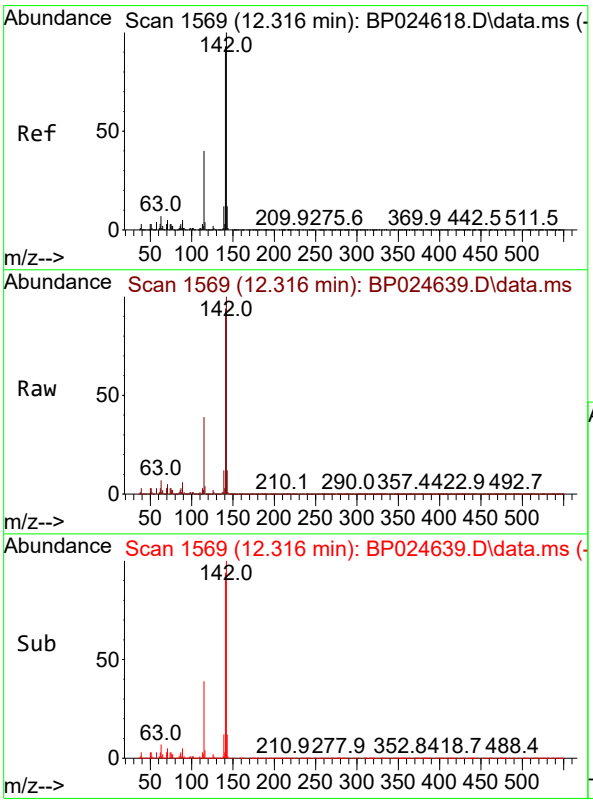
#37
2-Methylnaphthalene
Concen: 44.452 ng
RT: 12.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:142 Resp: 937935

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.2	106.8
115	38.2	30.6	46.0

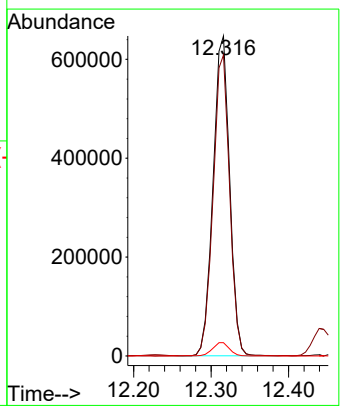


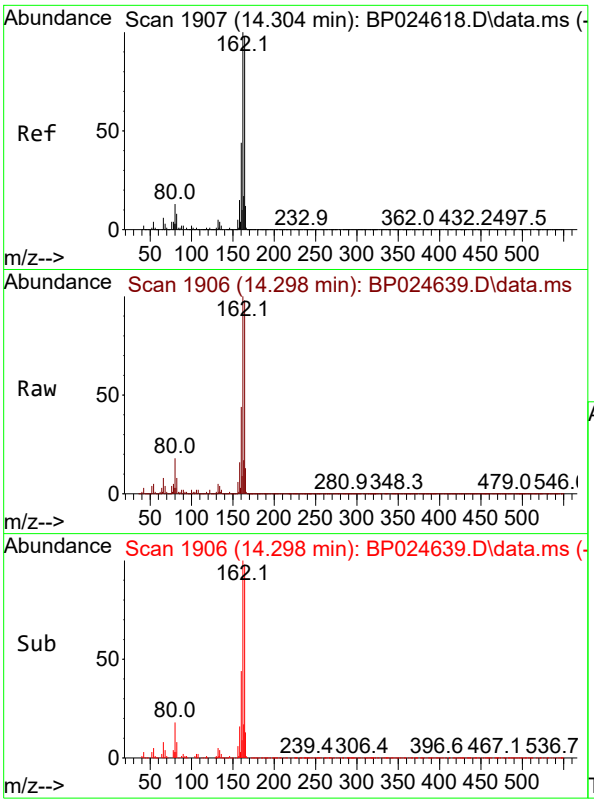


#38
1-Methylnaphthalene
Concen: 42.496 ng
RT: 12.316 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:142 Resp: 959403

Ion	Ratio	Lower	Upper
142	100		
141	94.1	74.7	112.1
116	4.2	3.4	5.2



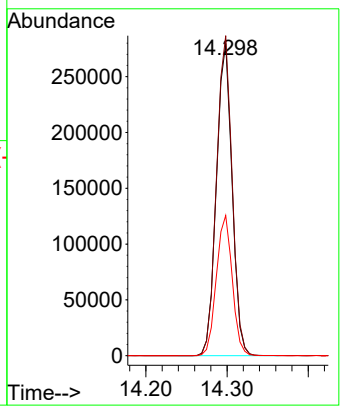


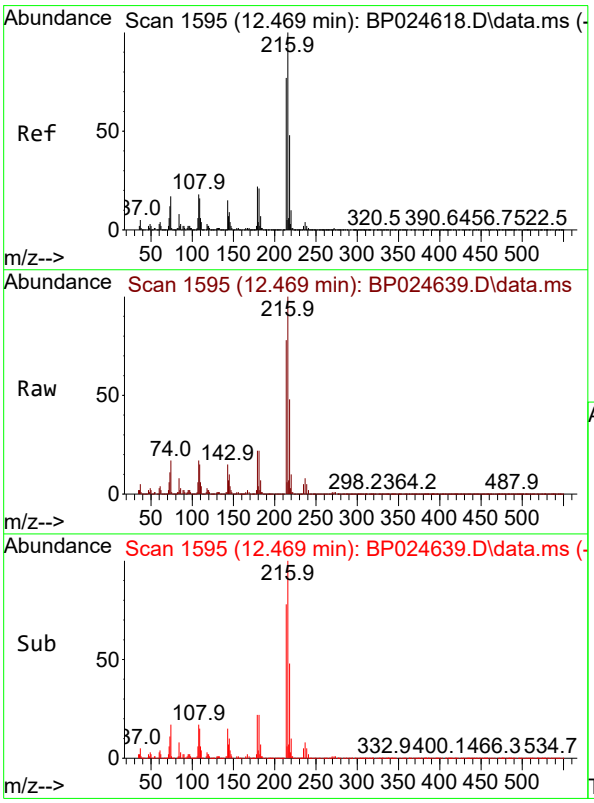
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:164 Resp: 375530

Ion	Ratio	Lower	Upper
164	100		
162	102.5	81.8	122.6
160	44.9	36.3	54.5

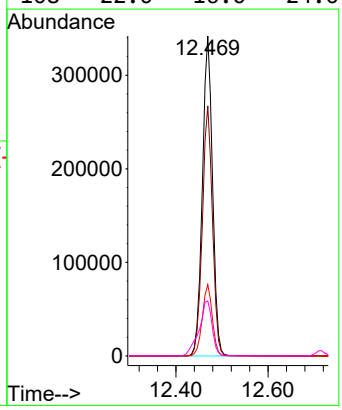


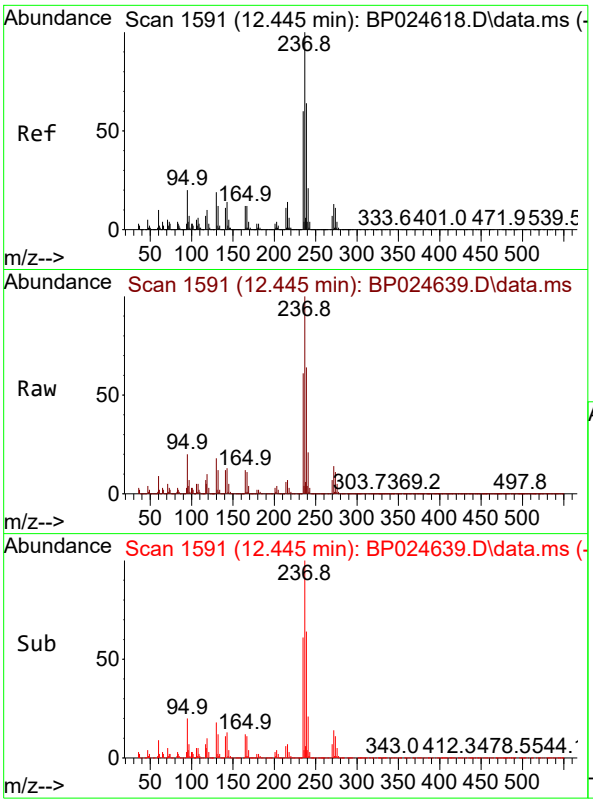


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.245 ng
RT: 12.469 min Scan# 1595
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:216 Resp: 526111

Ion	Ratio	Lower	Upper
216	100		
214	78.2	62.3	93.5
179	22.1	17.7	26.5
108	22.0	16.0	24.0



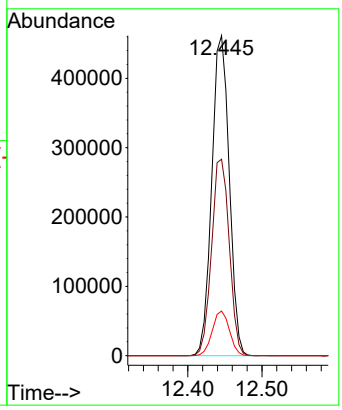


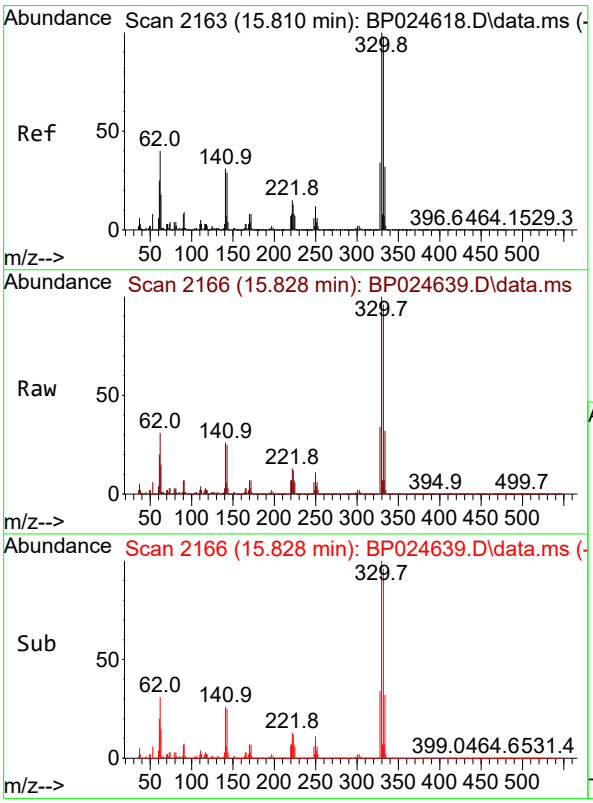
#41
Hexachlorocyclopentadiene
Concen: 113.935 ng
RT: 12.445 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:237 Resp: 753385

Ion	Ratio	Lower	Upper
237	100		
235	61.4	39.9	79.9
272	14.0	0.0	33.2

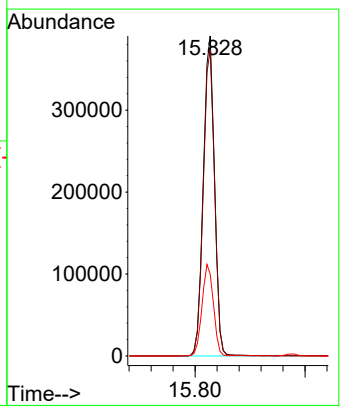


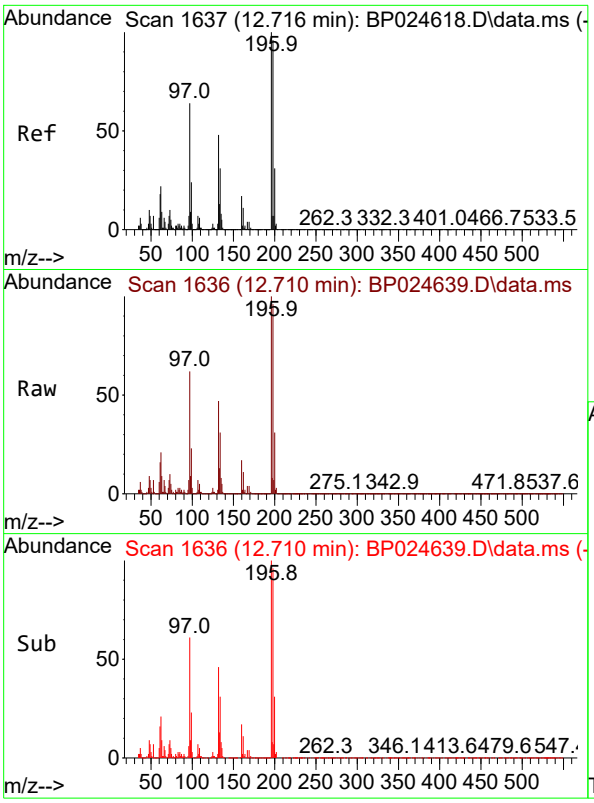


#42
2,4,6-Tribromophenol
Concen: 86.542 ng
RT: 15.828 min Scan# 2166
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:330 Resp: 550955

Ion	Ratio	Lower	Upper
330	100		
332	96.5	78.2	117.4
141	29.1	24.3	36.5



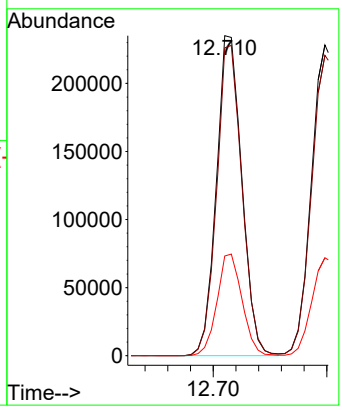


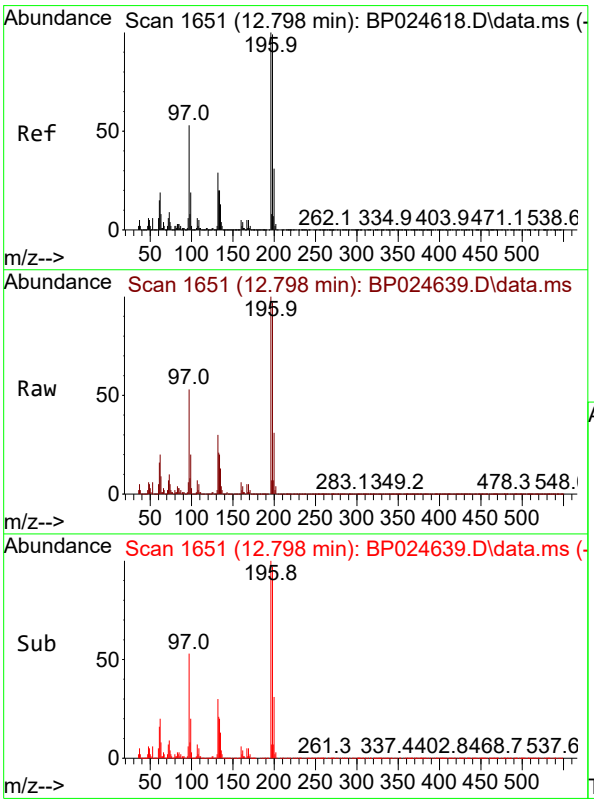
#43
2,4,6-Trichlorophenol
Concen: 51.868 ng
RT: 12.710 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:196 Resp: 366355

Ion	Ratio	Lower	Upper
196	100		
198	96.2	76.9	115.3
200	31.1	25.2	37.8

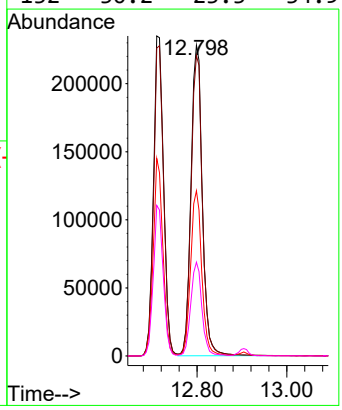


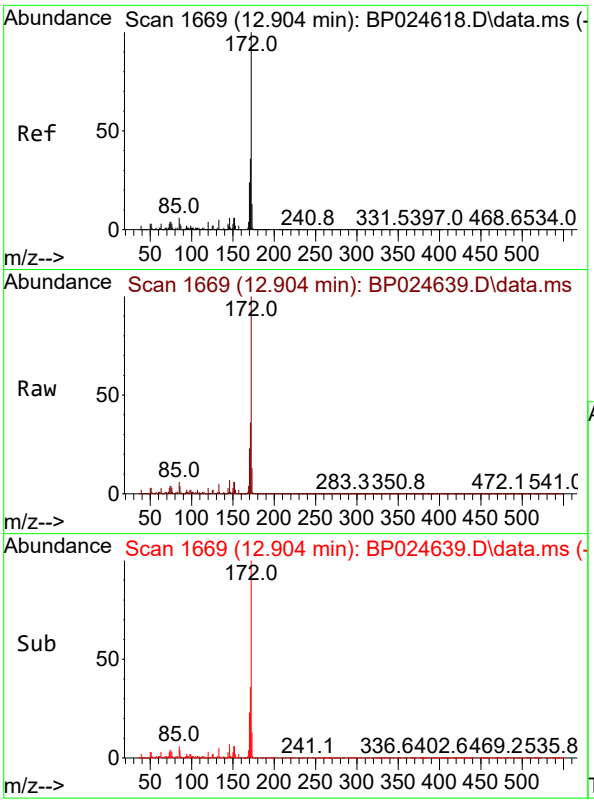


#44
2,4,5-Trichlorophenol
Concen: 50.924 ng
RT: 12.798 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:196 Resp: 400383

Ion	Ratio	Lower	Upper
196	100		
198	96.7	79.2	118.8
97	53.1	42.3	63.5
132	30.2	23.3	34.9



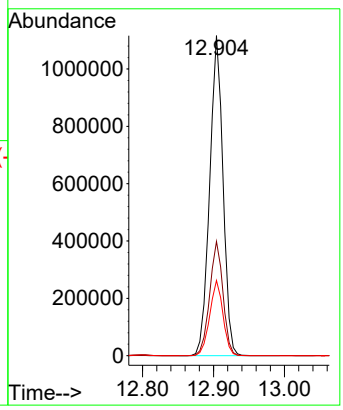


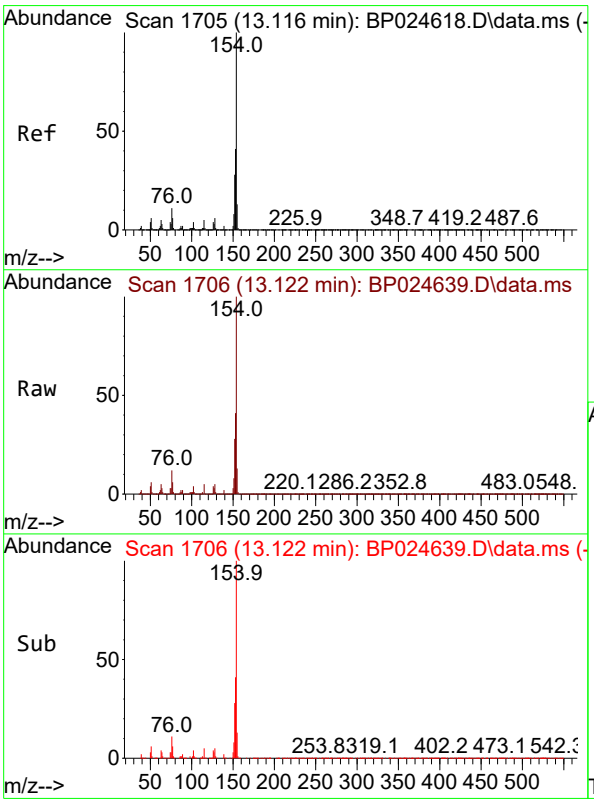
#45
2-Fluorobiphenyl
Concen: 50.869 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:172 Resp: 1458091

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.8	43.2
170	23.5	18.8	28.2

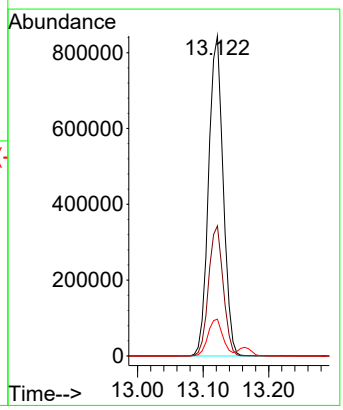


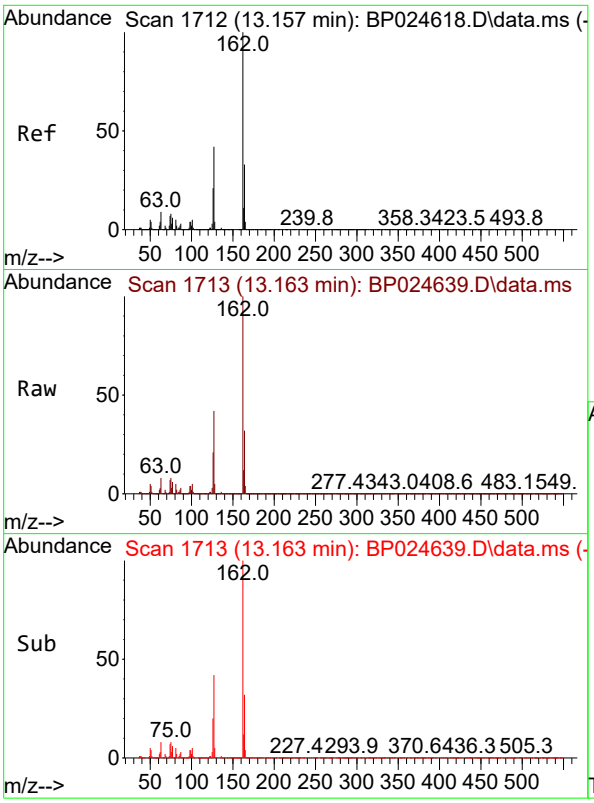


#46
1,1'-Biphenyl
Concen: 46.972 ng
RT: 13.122 min Scan# 1706
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:154 Resp: 1303750

Ion	Ratio	Lower	Upper
154	100		
153	40.6	21.0	61.0
76	11.5	0.0	31.5



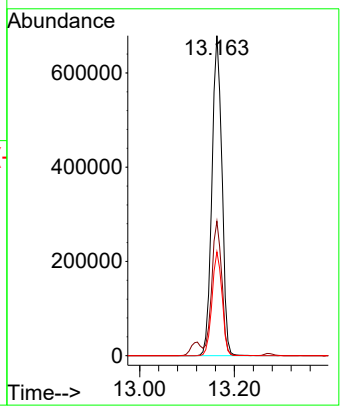


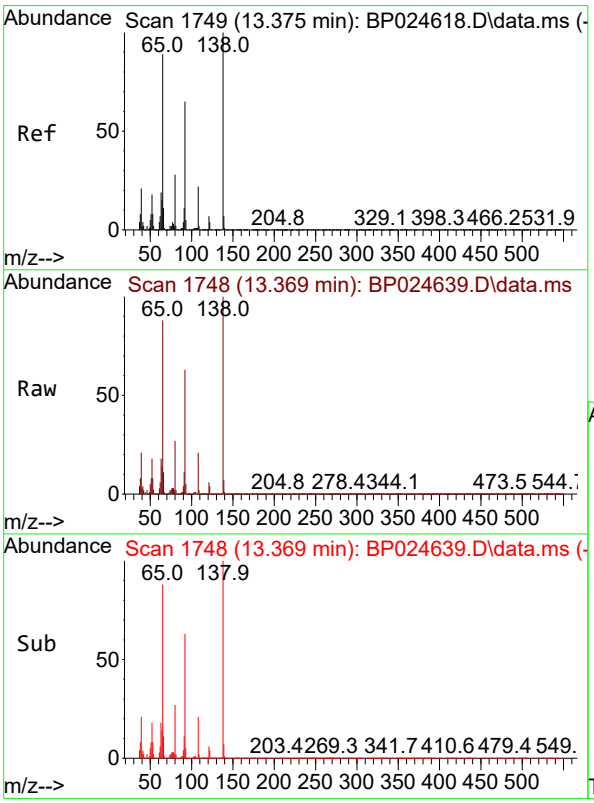
#47
2-Chloronaphthalene
Concen: 47.093 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:162 Resp: 996633

Ion	Ratio	Lower	Upper
162	100		
127	42.0	33.8	50.6
164	32.5	26.0	39.0

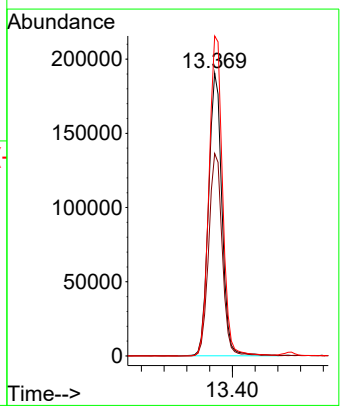


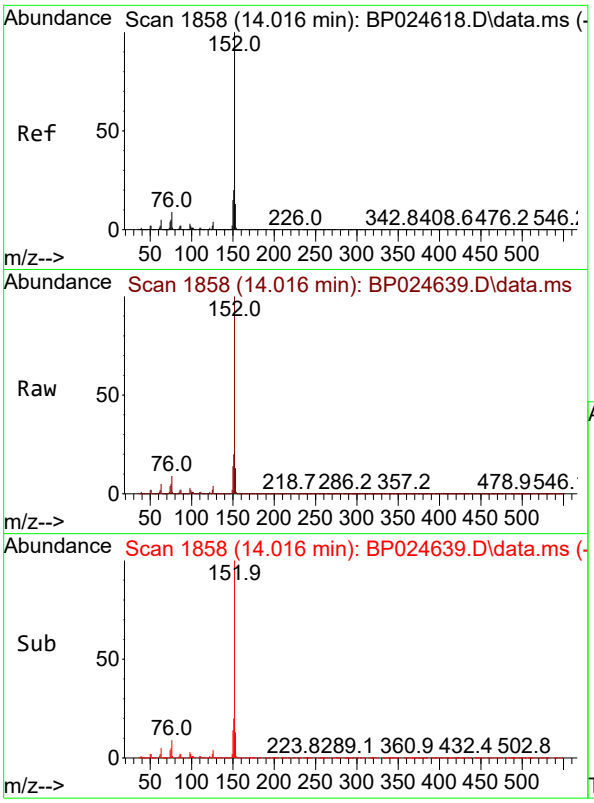


#48
2-Nitroaniline
Concen: 49.562 ng
RT: 13.369 min Scan# 1748
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 65 Resp: 310532

Ion	Ratio	Lower	Upper
65	100		
92	71.6	58.7	88.1
138	113.1	90.2	135.2



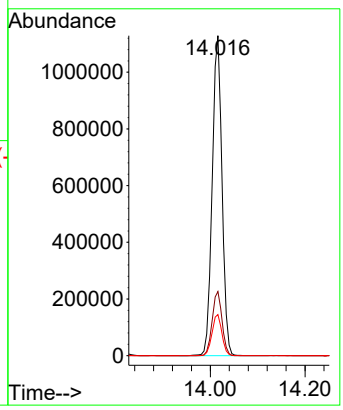


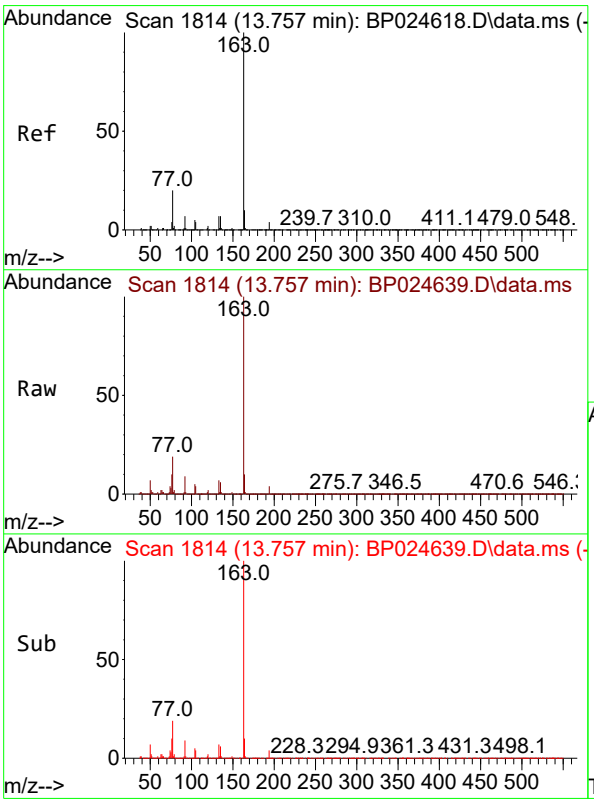
#49
Acenaphthylene
Concen: 45.817 ng
RT: 14.016 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:152 Resp: 1622651

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	12.9	10.2	15.4

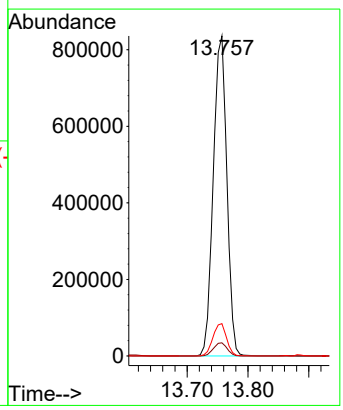


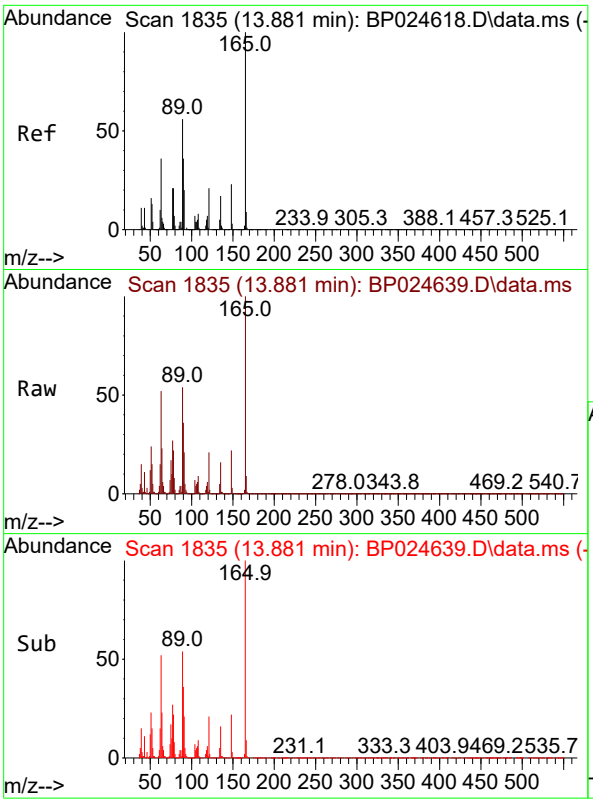


#50
Dimethylphthalate
Concen: 45.149 ng
RT: 13.757 min Scan# 1814
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:163 Resp: 1292316

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	8.1	12.1



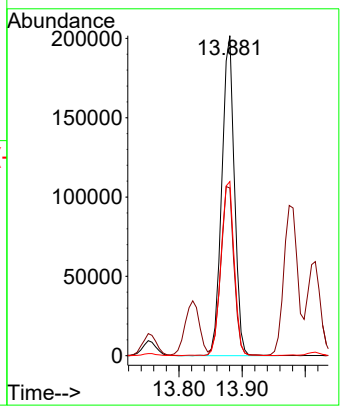


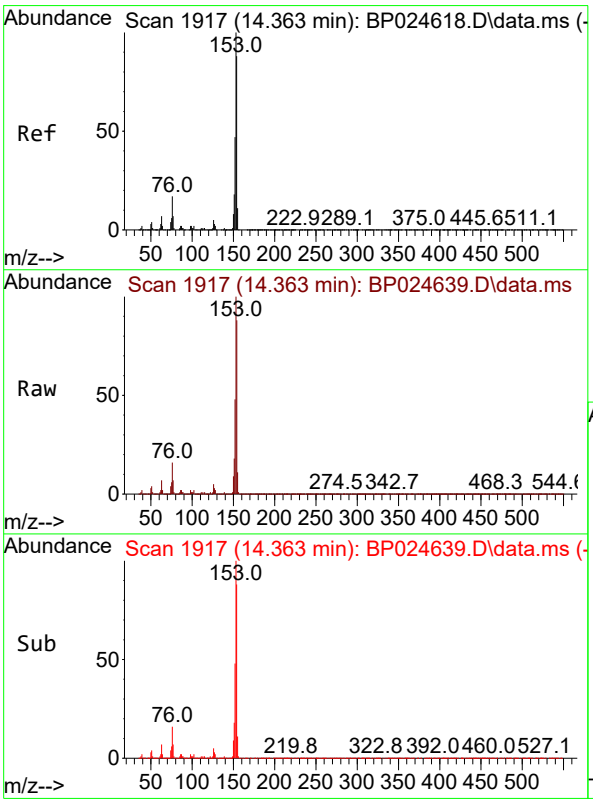
#51
2,6-Dinitrotoluene
Concen: 46.267 ng
RT: 13.881 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:165 Resp: 279686

Ion	Ratio	Lower	Upper
165	100		
63	52.4	42.4	63.6
89	54.4	44.8	67.2

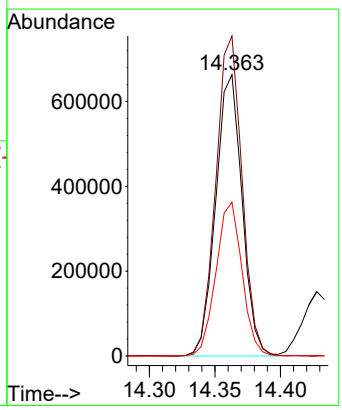


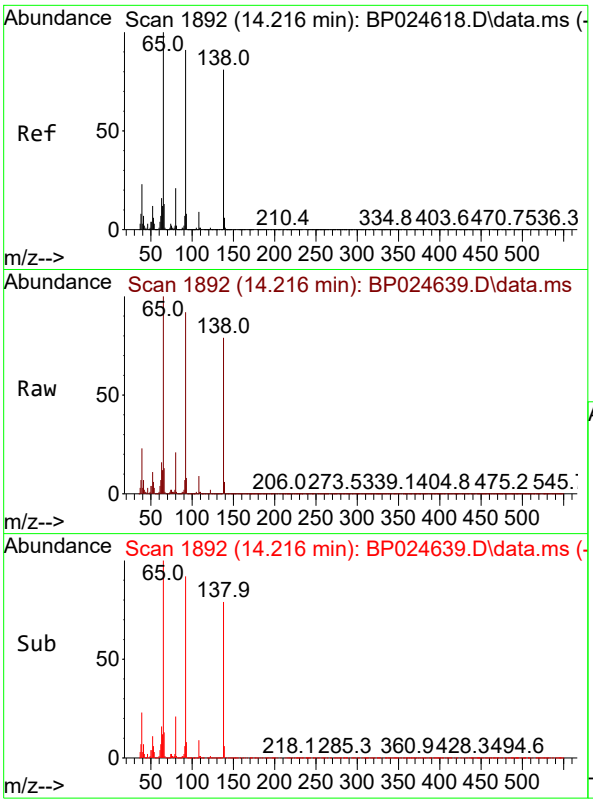


#52
Acenaphthene
Concen: 45.533 ng
RT: 14.363 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:154 Resp: 927052

Ion	Ratio	Lower	Upper
154	100		
153	113.8	91.0	136.4
152	54.7	42.9	64.3



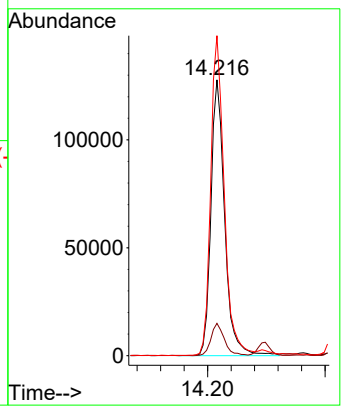


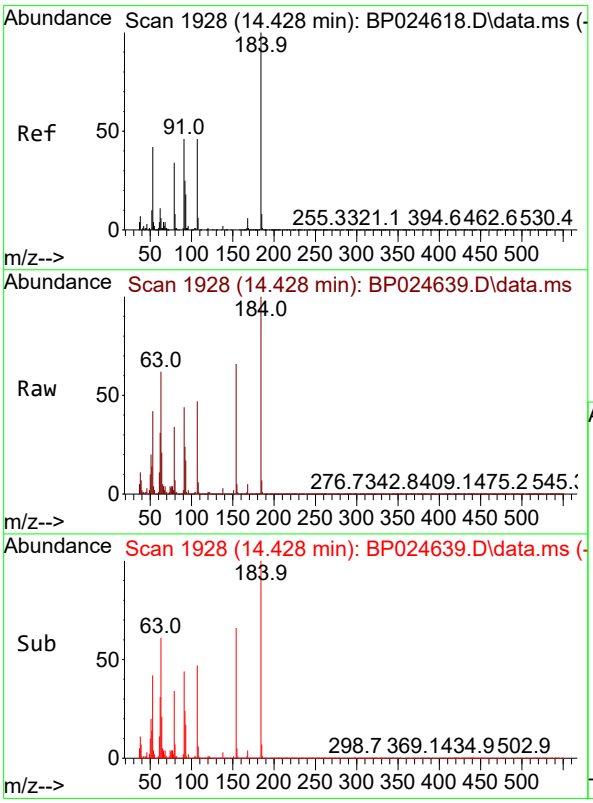
#53
3-Nitroaniline
Concen: 33.592 ng
RT: 14.216 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:138 Resp: 207346

Ion	Ratio	Lower	Upper
138	100		
108	11.7	9.0	13.4
92	116.0	90.1	135.1

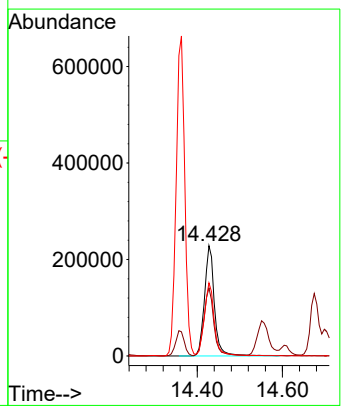


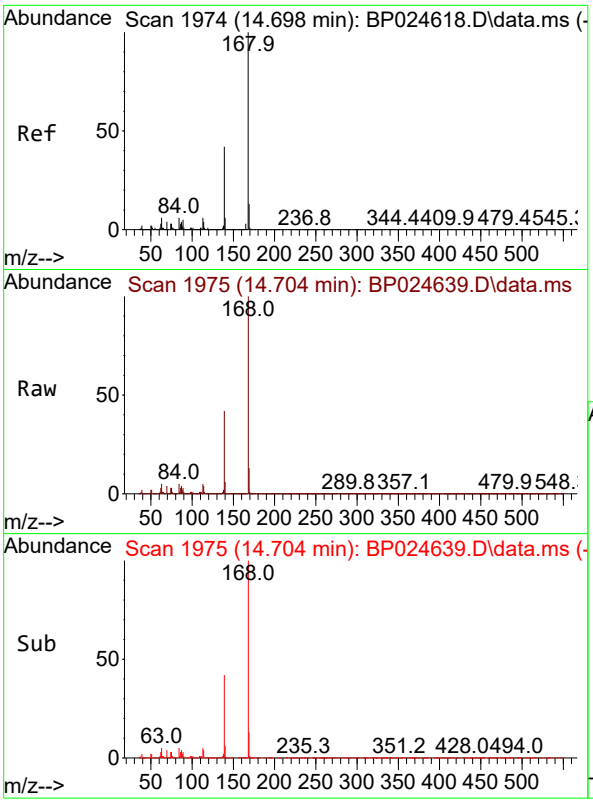


#54
2,4-Dinitrophenol
Concen: 95.940 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:184 Resp: 370998

Ion	Ratio	Lower	Upper
184	100		
63	61.6	51.3	76.9
154	66.3	53.5	80.3



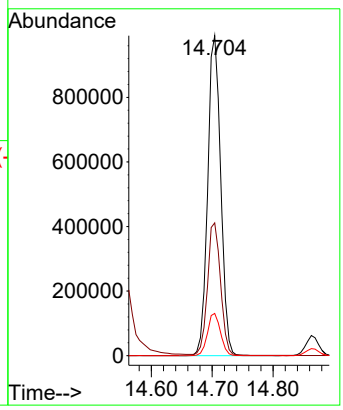


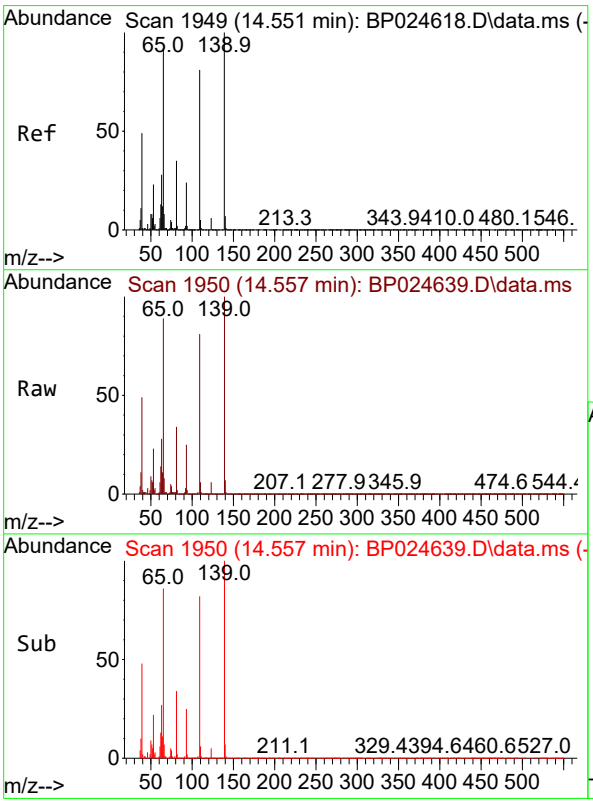
#55
Dibenzofuran
Concen: 45.231 ng
RT: 14.704 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:168 Resp: 1468896

Ion	Ratio	Lower	Upper
168	100		
139	41.5	34.2	51.4
169	13.2	10.8	16.2

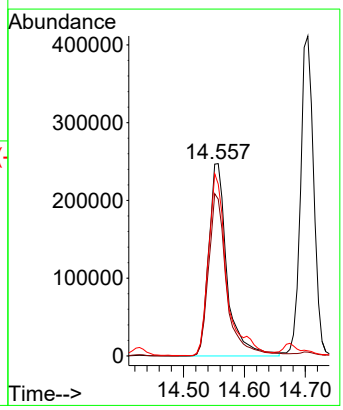


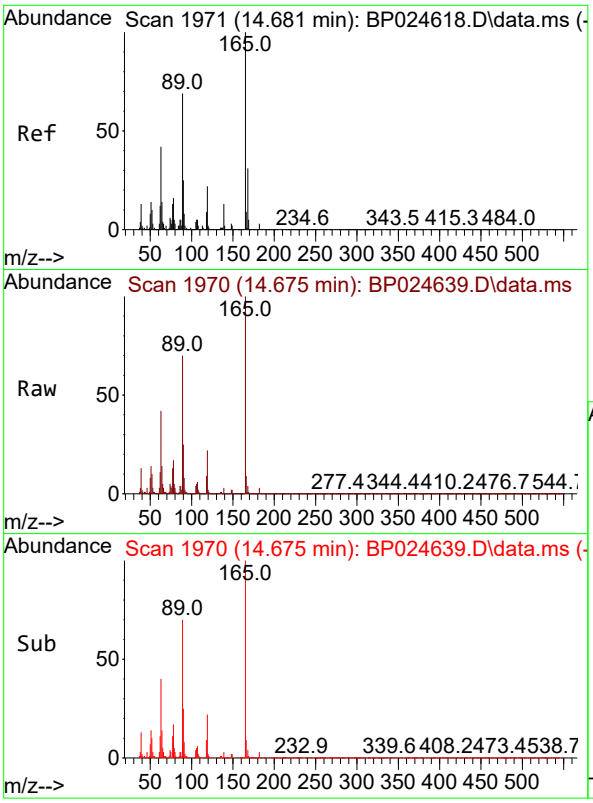


#56
4-Nitrophenol
Concen: 95.730 ng
RT: 14.557 min Scan# 1950
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:139 Resp: 516252

Ion	Ratio	Lower	Upper
139	100		
109	81.5	61.4	101.4
65	89.3	72.2	112.2



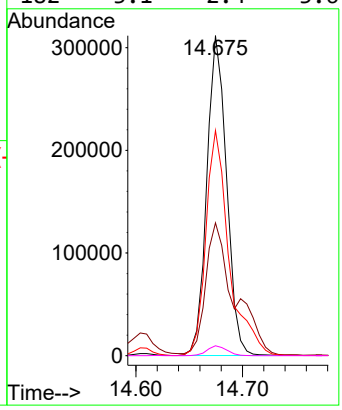


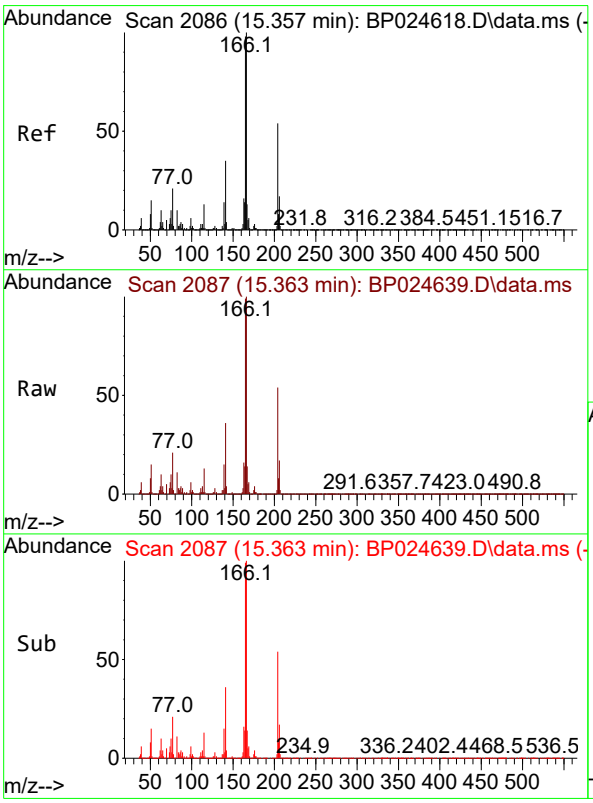
#57
2,4-Dinitrotoluene
Concen: 47.107 ng
RT: 14.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:165 Resp: 401464

Ion	Ratio	Lower	Upper
165	100		
63	41.5	33.8	50.6
89	70.3	55.6	83.4
182	3.1	2.4	3.6

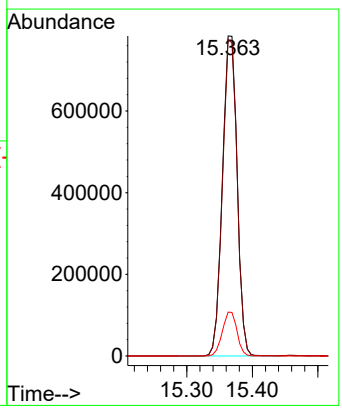


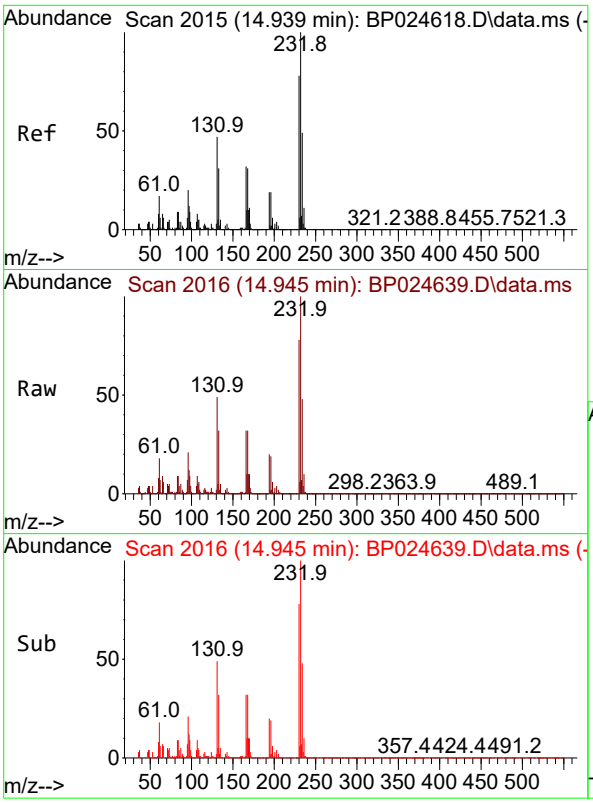


#58
Fluorene
Concen: 45.883 ng
RT: 15.363 min Scan# 2087
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:166 Resp: 1214988

Ion	Ratio	Lower	Upper
166	100		
165	99.0	78.5	117.7
167	13.7	10.7	16.1



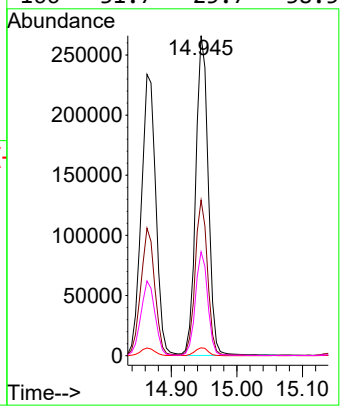


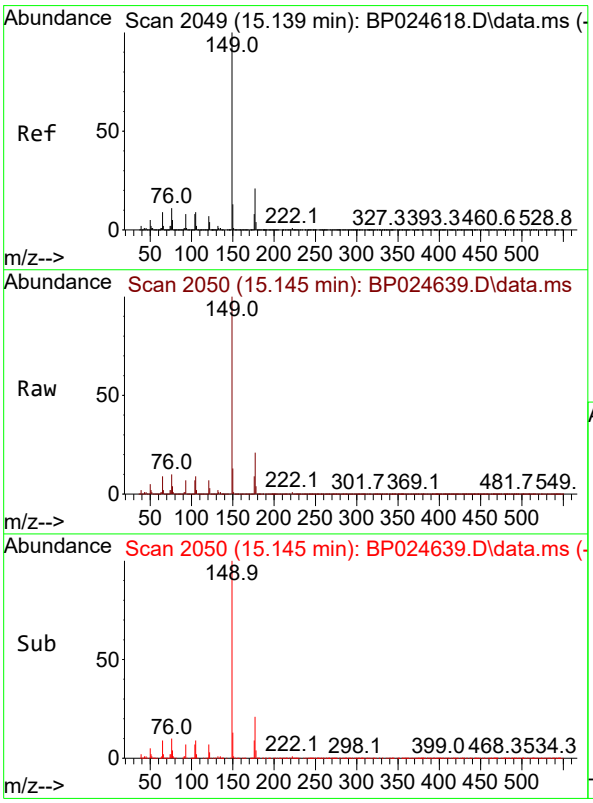
#59
2,3,4,6-Tetrachlorophenol
Concen: 48.402 ng
RT: 14.945 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:232 Resp: 353018

Ion	Ratio	Lower	Upper
232	100		
131	48.2	39.5	59.3
130	2.6	2.2	3.4
166	31.7	25.7	38.5

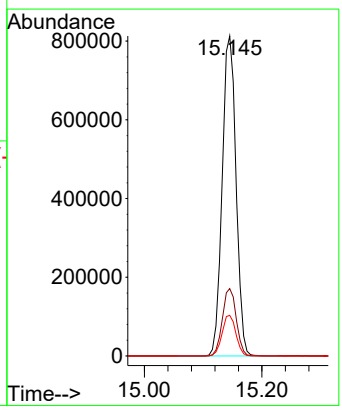


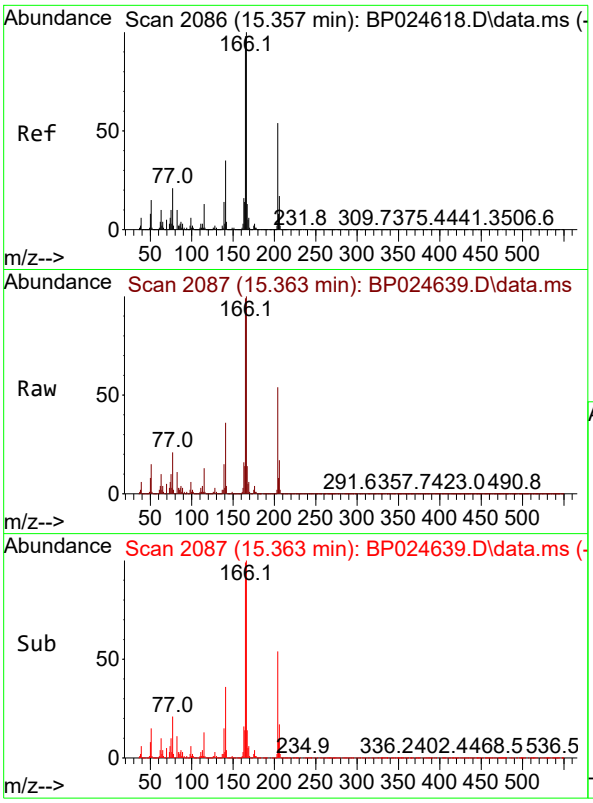


#60
Diethylphthalate
Concen: 45.812 ng
RT: 15.145 min Scan# 2050
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:149 Resp: 1325337

Ion	Ratio	Lower	Upper
149	100		
177	21.1	16.7	25.1
150	12.7	10.2	15.2



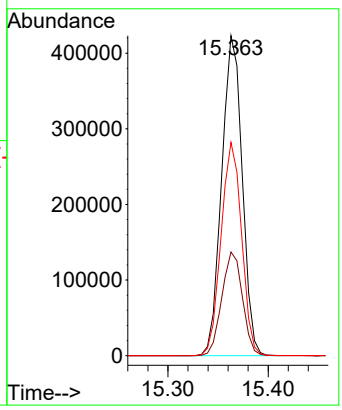


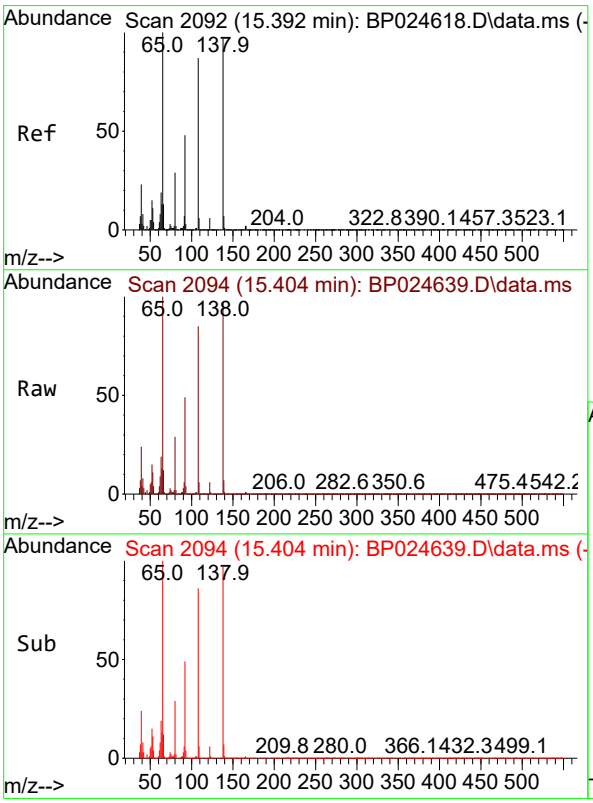
#61
4-Chlorophenyl-phenylether
Concen: 45.538 ng
RT: 15.363 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:204 Resp: 601374

Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.0	39.0
141	66.6	52.9	79.3

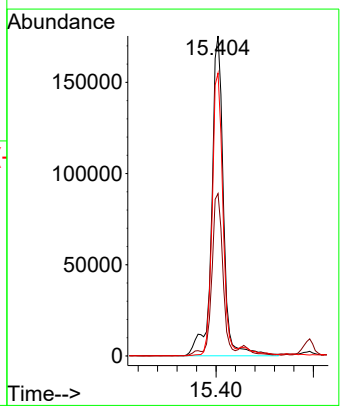


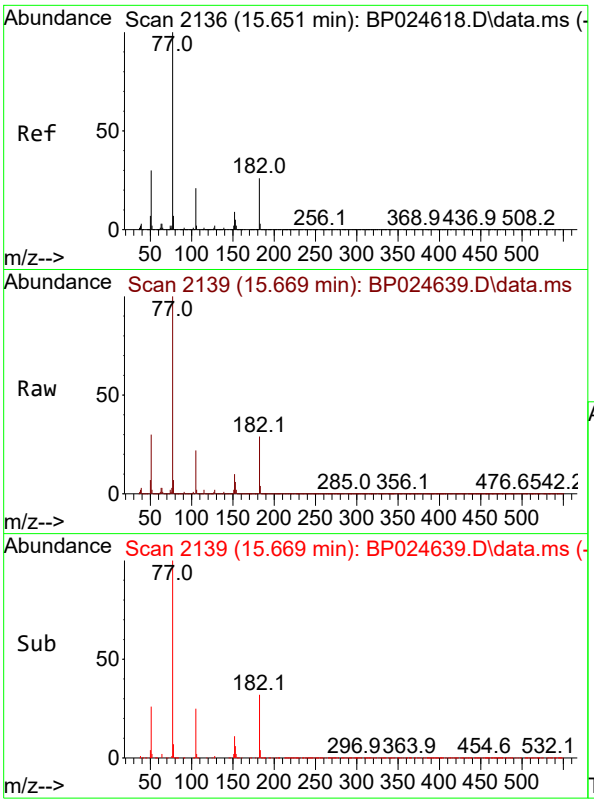


#62
4-Nitroaniline
Concen: 49.350 ng
RT: 15.404 min Scan# 2094
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:138 Resp: 294125

Ion	Ratio	Lower	Upper
138	100		
92	50.8	29.2	69.2
108	88.4	69.0	109.0



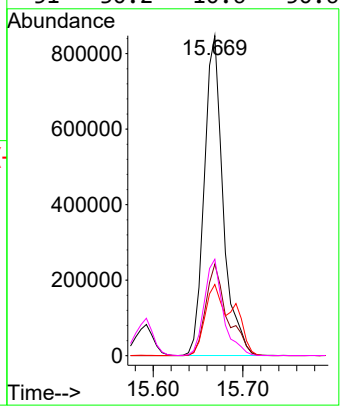


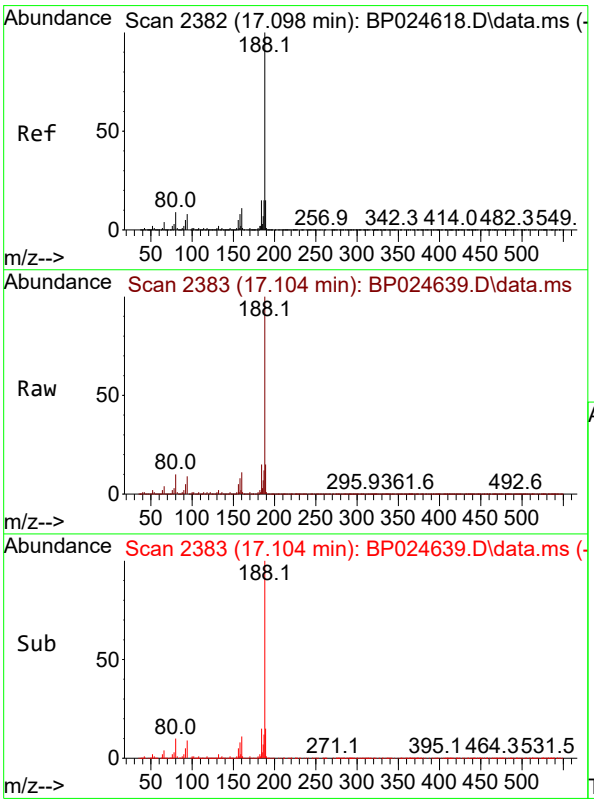
#63
Azobenzene
Concen: 49.848 ng
RT: 15.669 min Scan# 21
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 77 Resp: 1233658

Ion	Ratio	Lower	Upper
77	100		
182	28.6	5.7	45.7
105	22.2	1.3	41.3
51	30.2	10.6	50.6

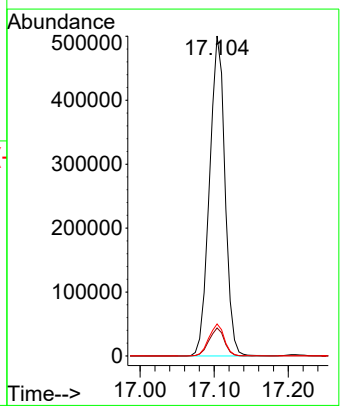


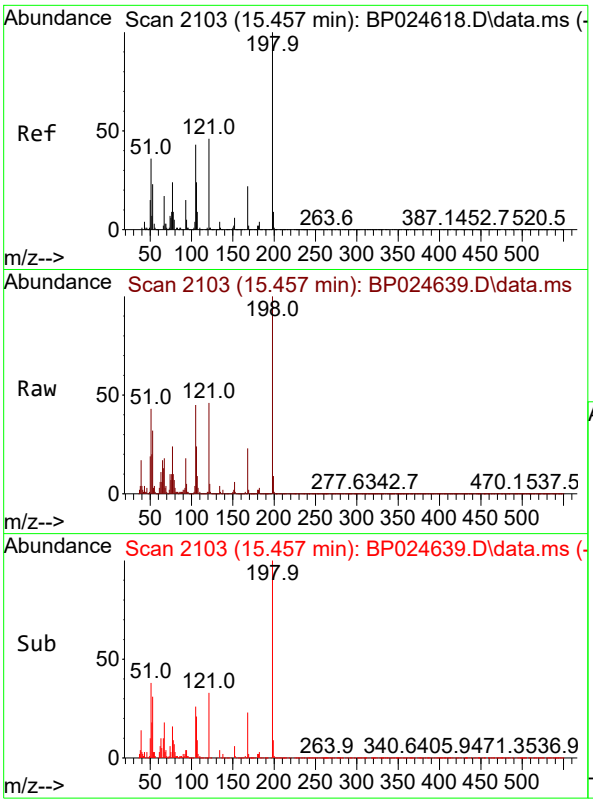


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.104 min Scan# 2383
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:188 Resp: 726778

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.5	9.7
80	10.0	7.3	10.9



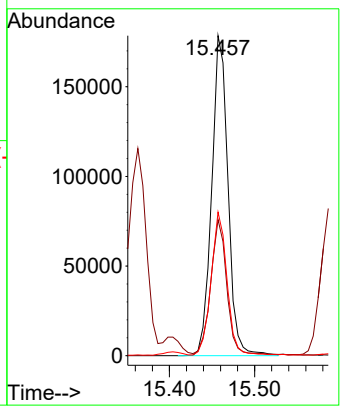


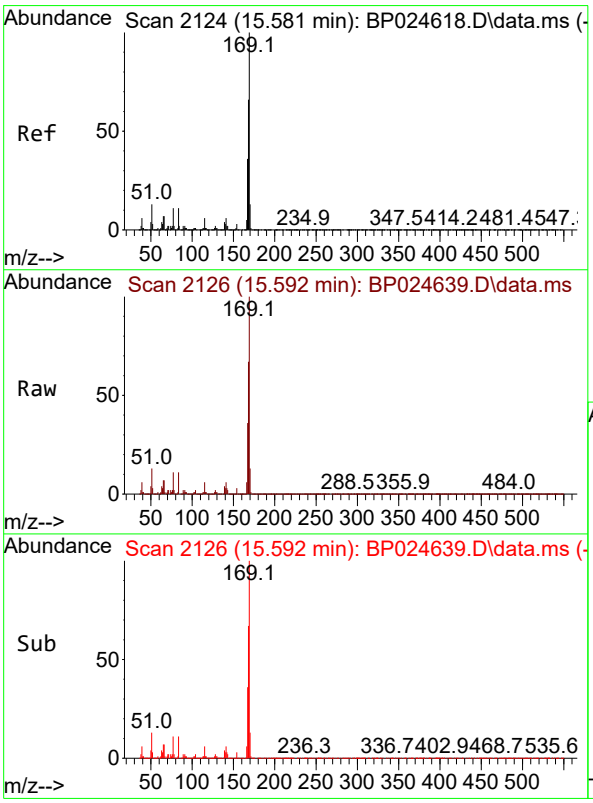
#65
4,6-Dinitro-2-methylphenol
Concen: 50.556 ng
RT: 15.457 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:198 Resp: 237337

Ion	Ratio	Lower	Upper
198	100		
51	42.5	21.1	61.1
105	44.9	23.6	63.6

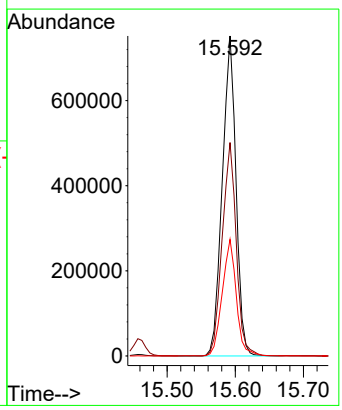


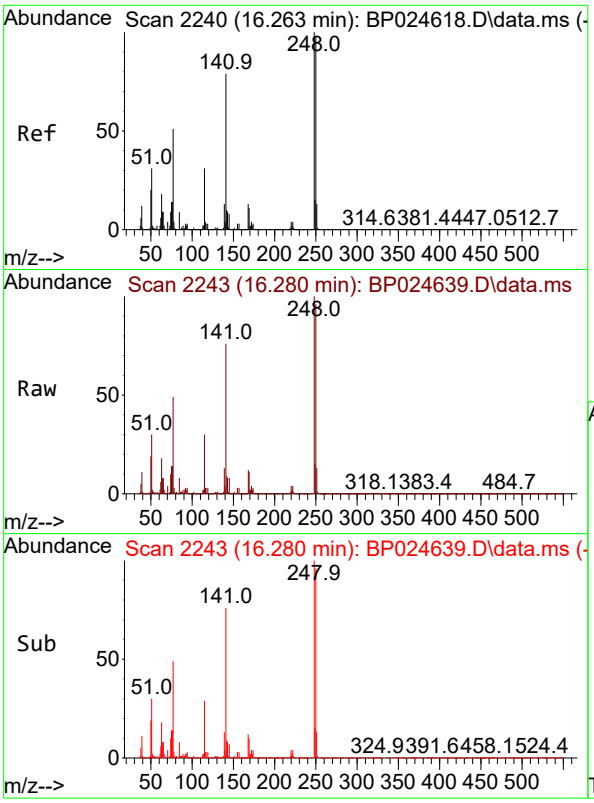


#66
n-Nitrosodiphenylamine
Concen: 47.126 ng
RT: 15.592 min Scan# 2126
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:169 Resp: 1052029

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.2	79.8
167	36.4	28.6	43.0



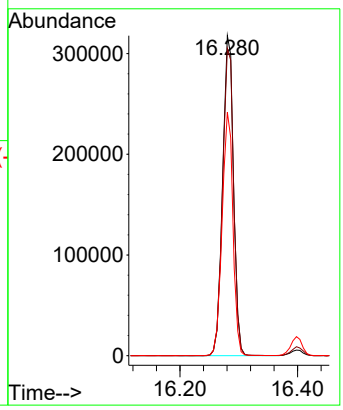


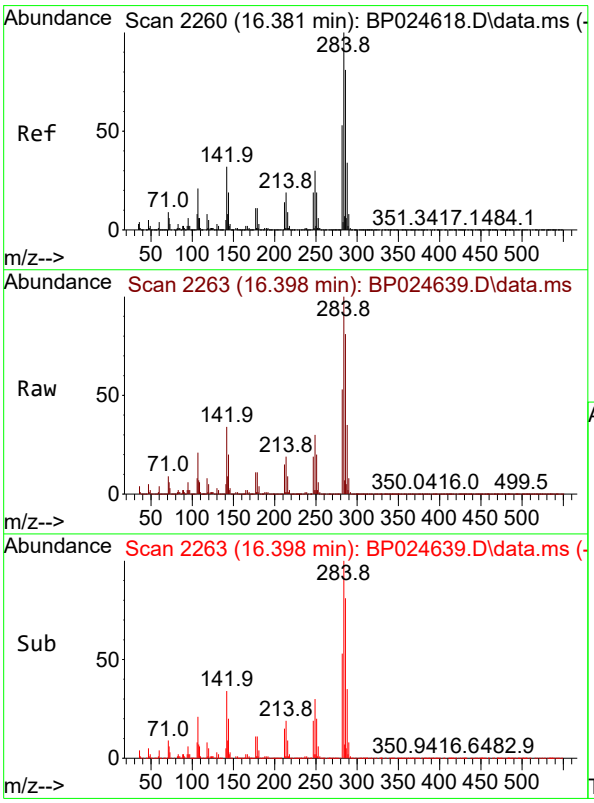
#67
4-Bromophenyl-phenylether
Concen: 47.731 ng
RT: 16.280 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:248 Resp: 408770

Ion	Ratio	Lower	Upper
248	100		
250	96.1	78.2	117.4
141	76.1	63.0	94.6

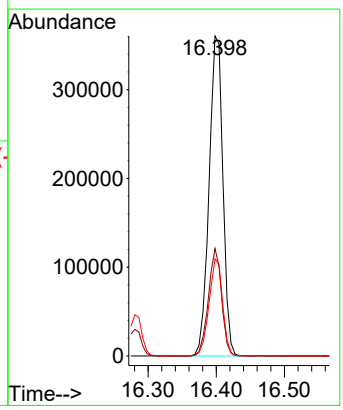


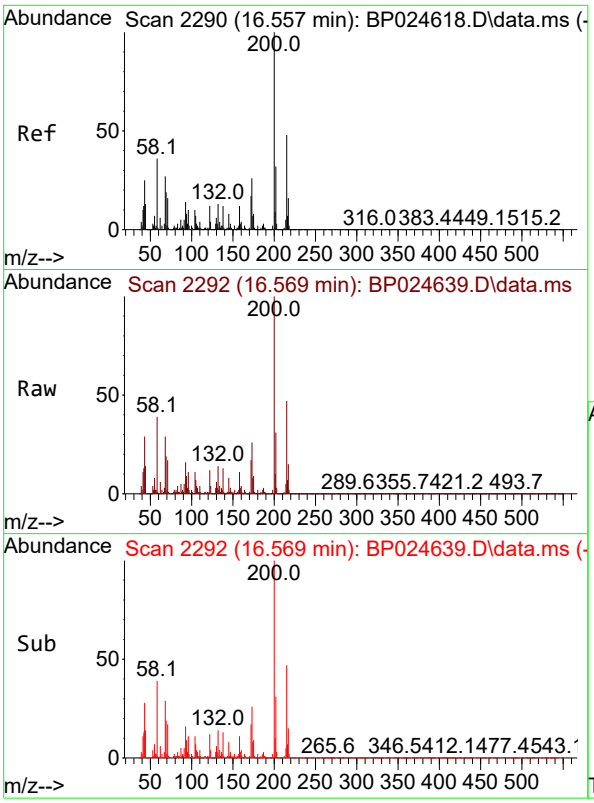


#68
Hexachlorobenzene
Concen: 46.695 ng
RT: 16.398 min Scan# 2263
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:284 Resp: 508136

Ion	Ratio	Lower	Upper
284	100		
142	33.5	25.9	38.9
249	30.4	24.1	36.1



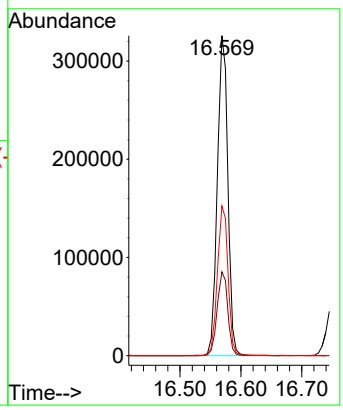


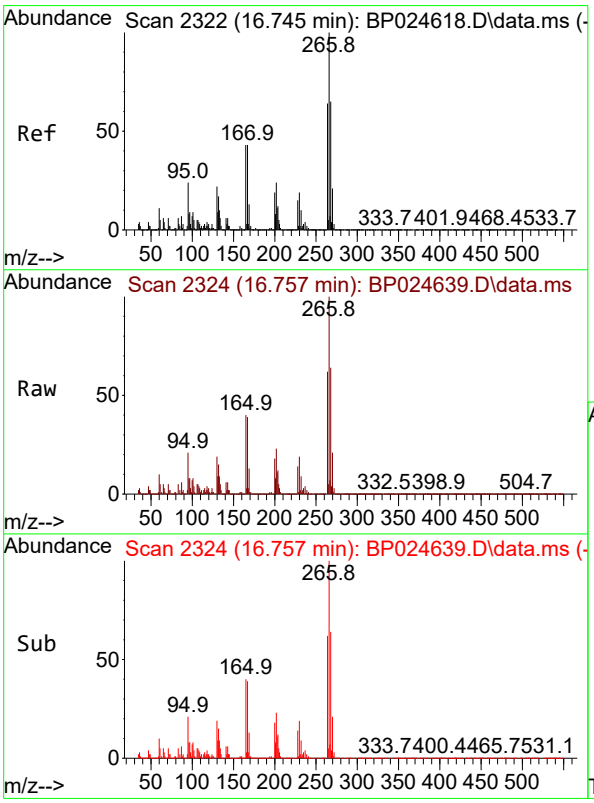
#69
Atrazine
Concen: 47.576 ng
RT: 16.569 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:200 Resp: 389218

Ion	Ratio	Lower	Upper
200	100		
173	26.2	5.9	45.9
215	46.8	28.3	68.3

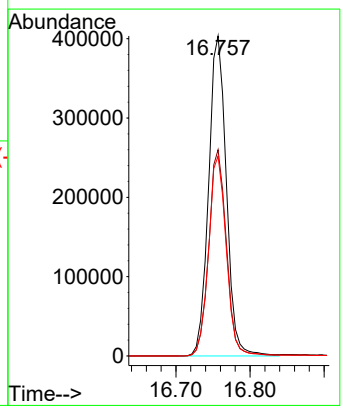


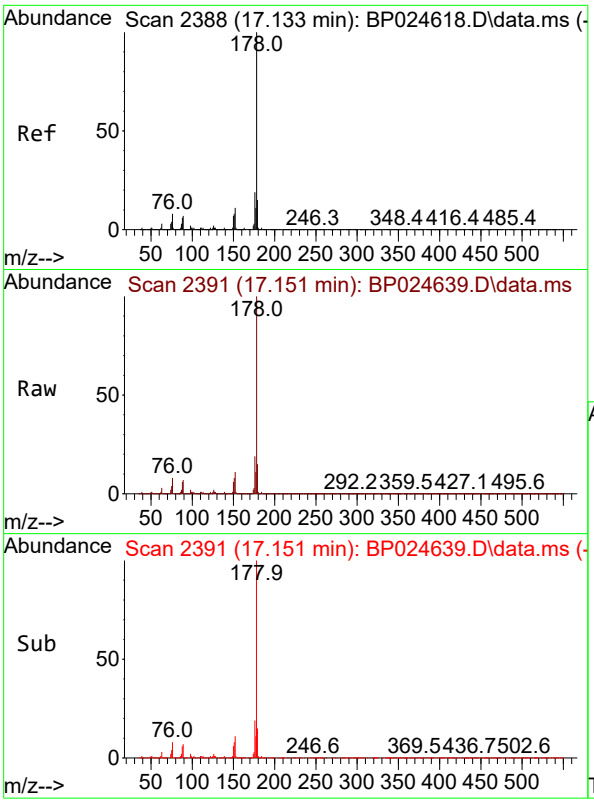


#70
Pentachlorophenol
Concen: 109.866 ng
RT: 16.757 min Scan# 2324
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:266 Resp: 671128

Ion	Ratio	Lower	Upper
266	100		
268	64.5	52.2	78.4
264	62.5	51.1	76.7



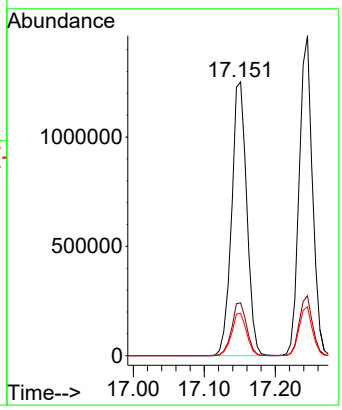


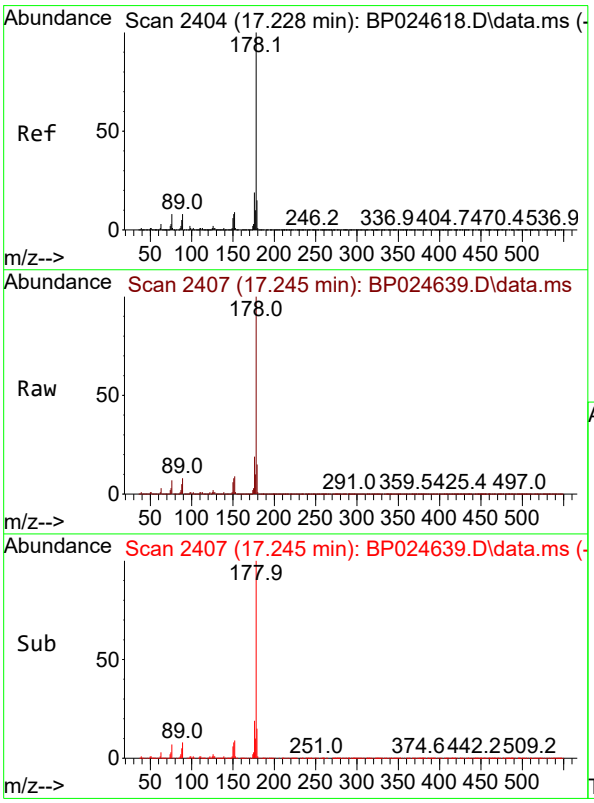
#71
Phenanthrene
Concen: 45.914 ng
RT: 17.151 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:178 Resp: 1855042

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.5	12.2	18.4

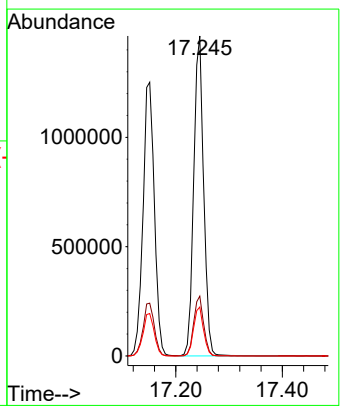


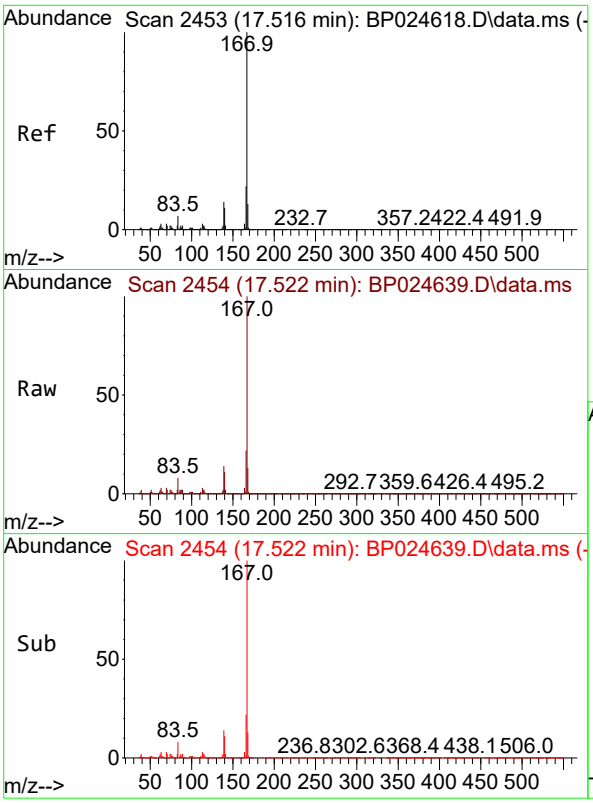


#72
Anthracene
Concen: 46.501 ng
RT: 17.245 min Scan# 2407
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:178 Resp: 1890233

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.3	12.2	18.2



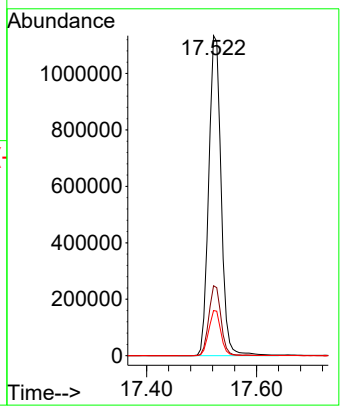


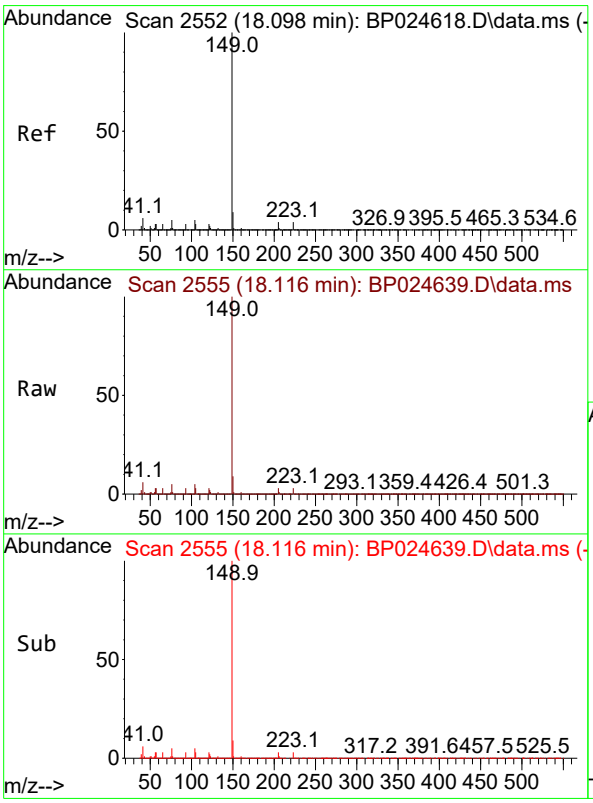
#73
Carbazole
Concen: 48.125 ng
RT: 17.522 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:167 Resp: 1770616

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.7	26.5
139	14.1	11.3	16.9

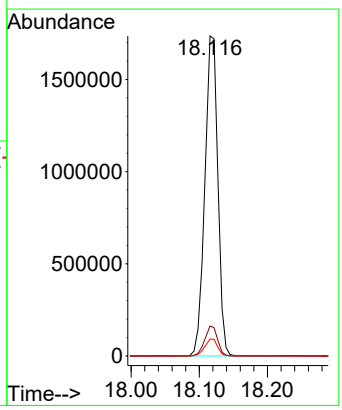


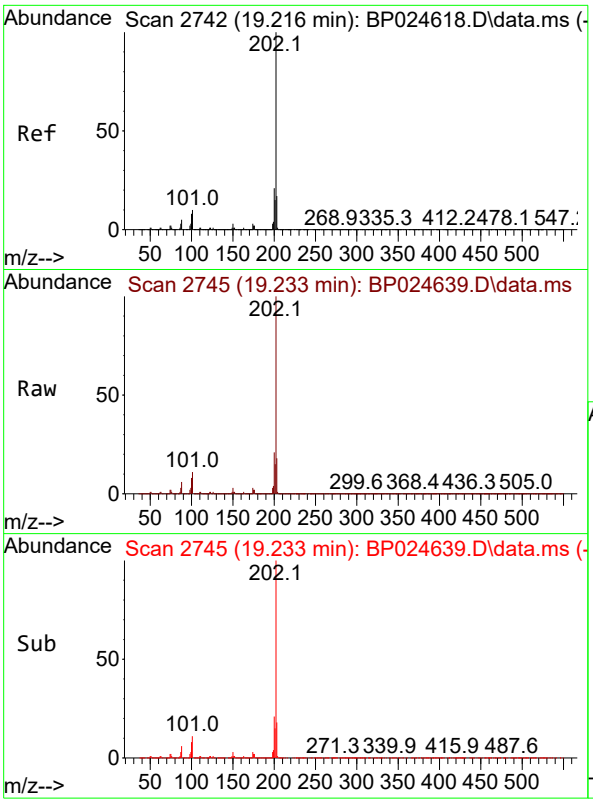


#74
Di-n-butylphthalate
Concen: 48.711 ng
RT: 18.116 min Scan# 2555
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:149 Resp: 2304897

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.2	10.8
104	5.3	4.3	6.5



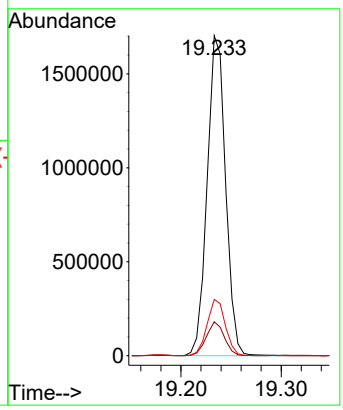


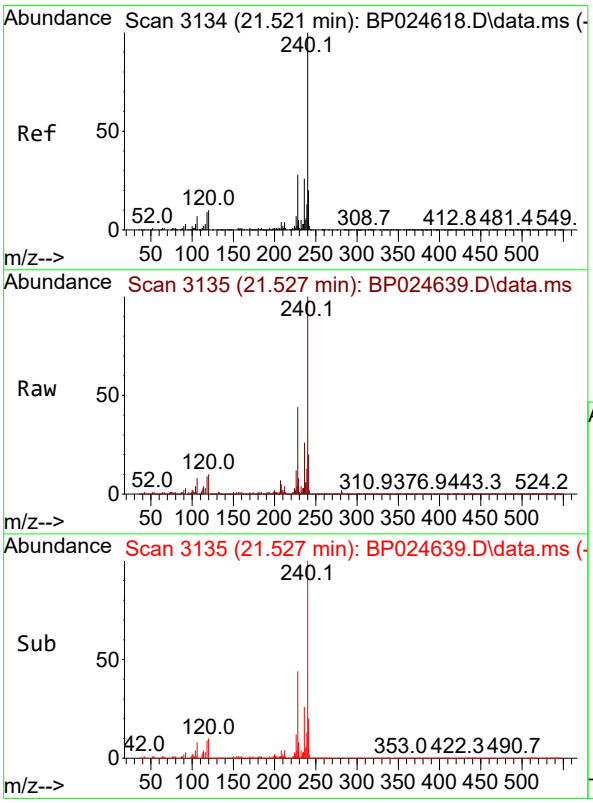
#75
Fluoranthene
Concen: 46.096 ng
RT: 19.233 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:202 Resp: 2177024

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	30.3
203	17.6	0.0	37.5

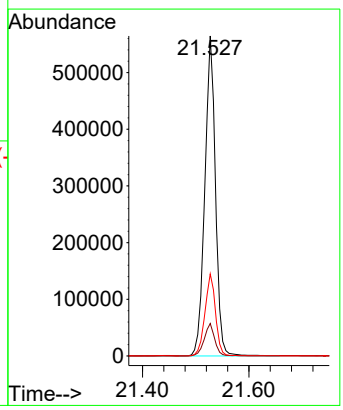


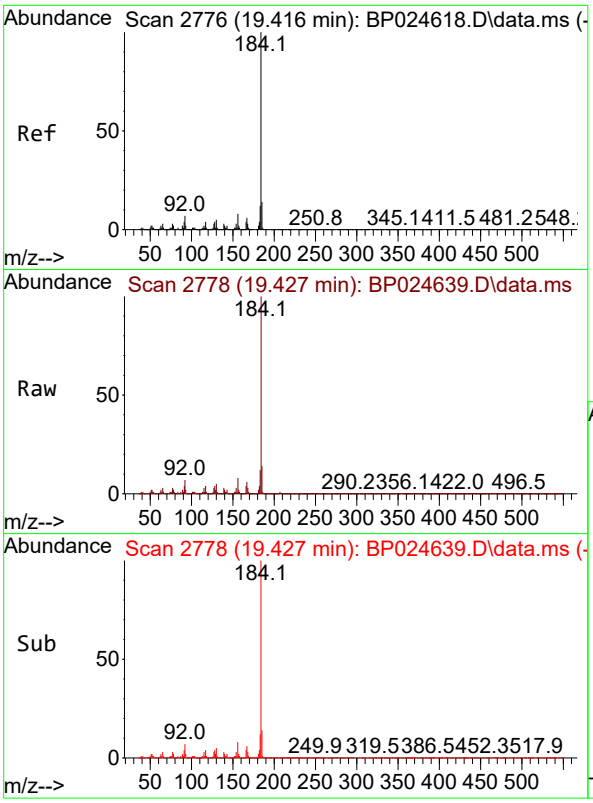


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.527 min Scan# 3135
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:240 Resp: 785534

Ion	Ratio	Lower	Upper
240	100		
120	10.2	7.8	11.6
236	25.6	20.6	31.0



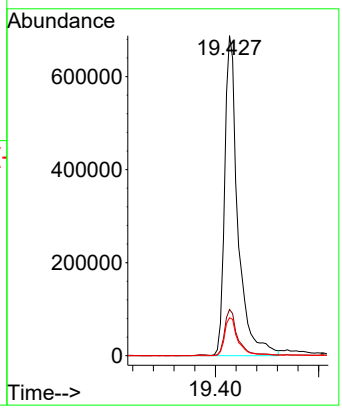


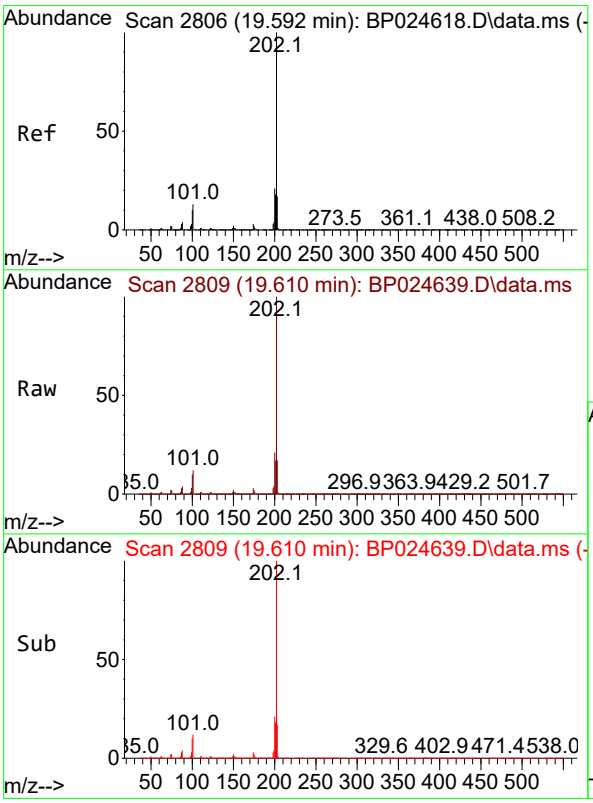
#77
Benzidine
Concen: 56.878 ng
RT: 19.427 min Scan# 2
Delta R.T. 0.011 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:184 Resp: 1216882

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.2	16.8
183	11.9	9.8	14.8

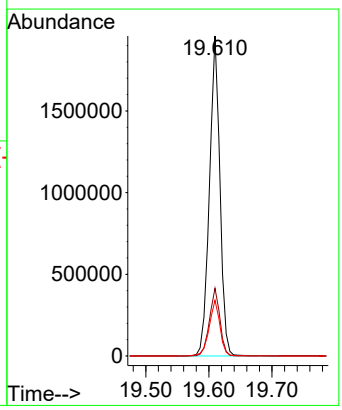


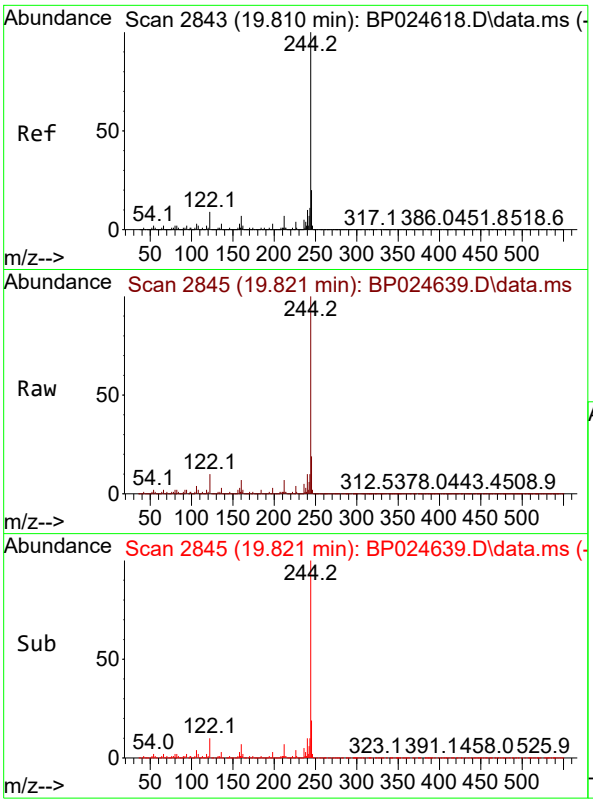


#78
Pyrene
Concen: 47.874 ng
RT: 19.610 min Scan# 2809
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:202 Resp: 2253283

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.4	13.9	20.9



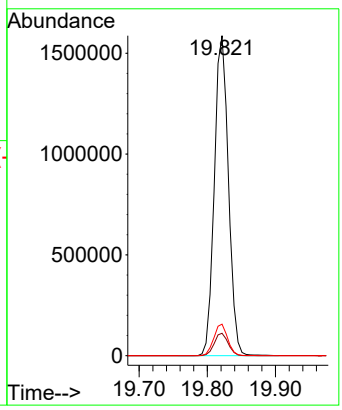


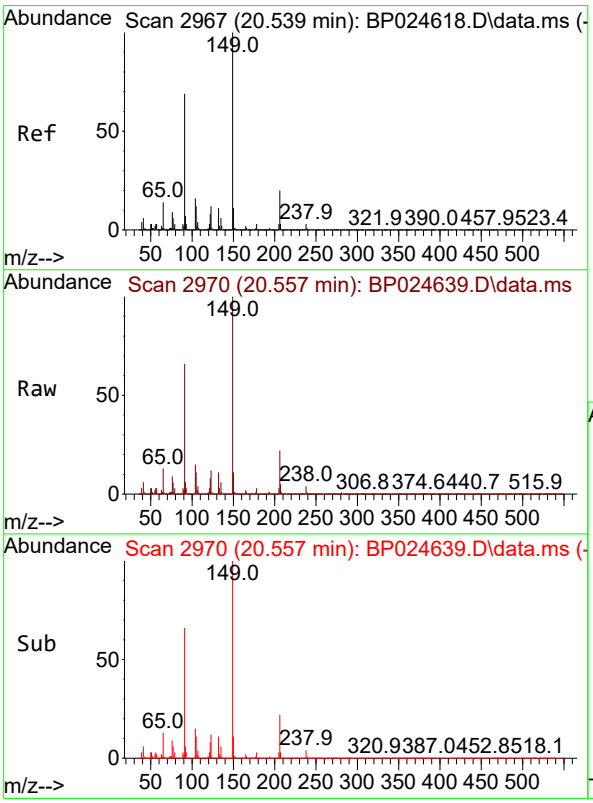
#79
Terphenyl-d14
Concen: 49.789 ng
RT: 19.821 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:244 Resp: 2280930

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	9.9	7.4	11.0

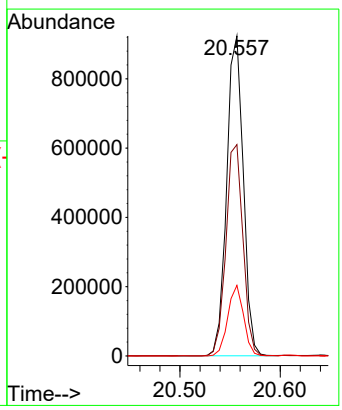


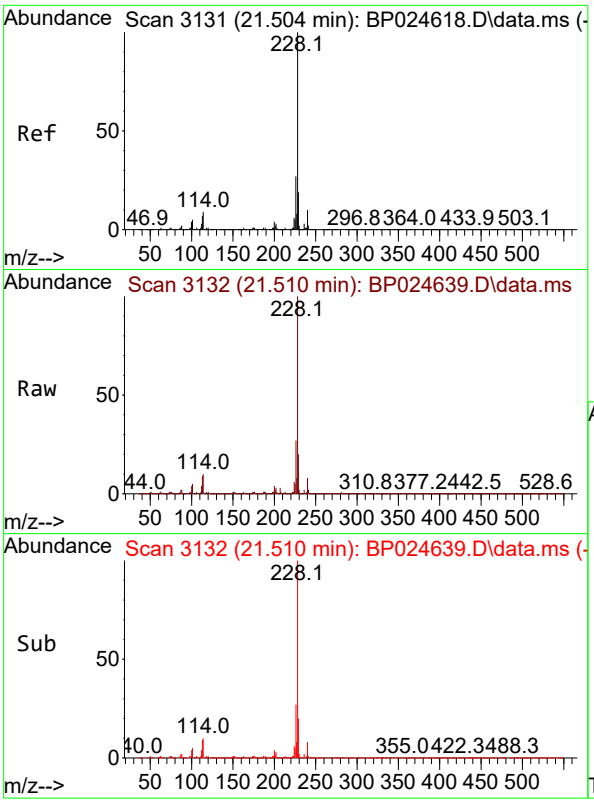


#80
Butylbenzylphthalate
Concen: 50.684 ng
RT: 20.557 min Scan# 2970
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:149 Resp: 1060952

Ion	Ratio	Lower	Upper
149	100		
91	66.1	55.4	83.0
206	22.1	16.2	24.2



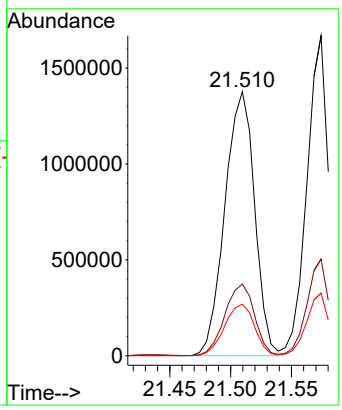


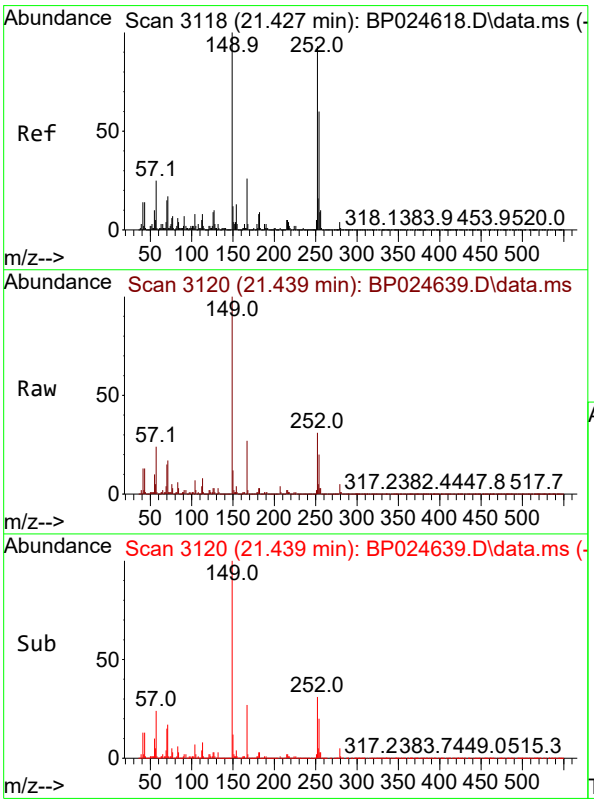
#81
Benzo(a)anthracene
Concen: 47.414 ng
RT: 21.510 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:228 Resp: 2338691

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.4	32.0
229	19.5	15.5	23.3

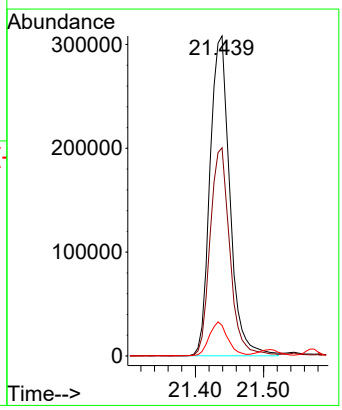


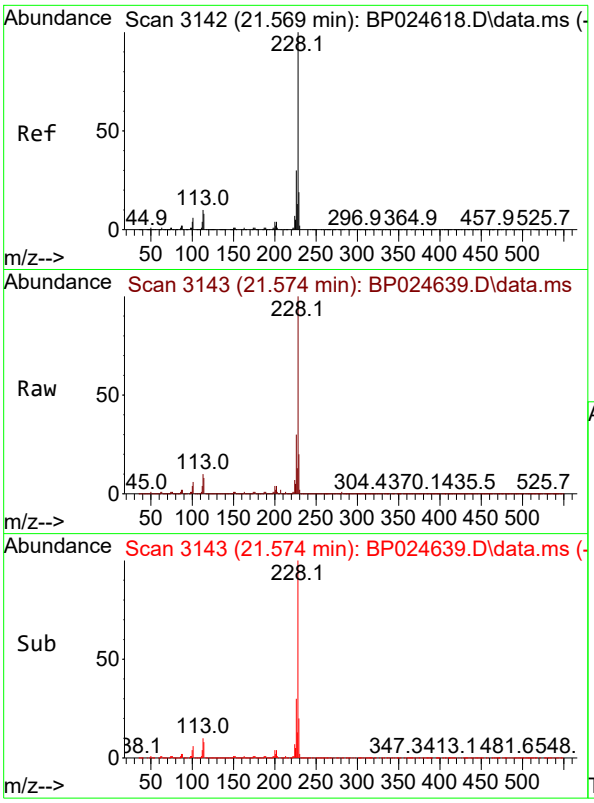


#82
3,3'-Dichlorobenzidine
Concen: 33.999 ng
RT: 21.439 min Scan# 3120
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:252 Resp: 622869

Ion	Ratio	Lower	Upper
252	100		
254	65.1	51.8	77.6
126	9.6	7.7	11.5



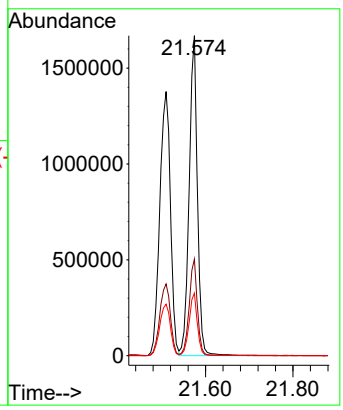


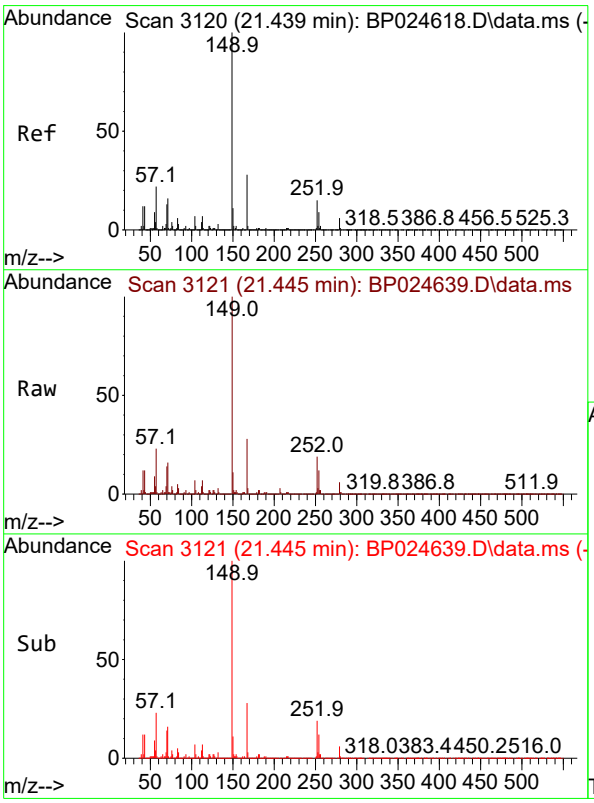
#83
Chrysene
Concen: 46.609 ng
RT: 21.574 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:228 Resp: 2179347

Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.9	35.9
229	19.6	15.5	23.3

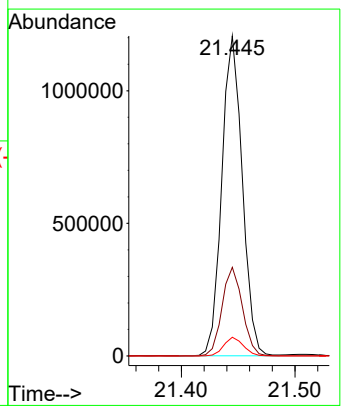


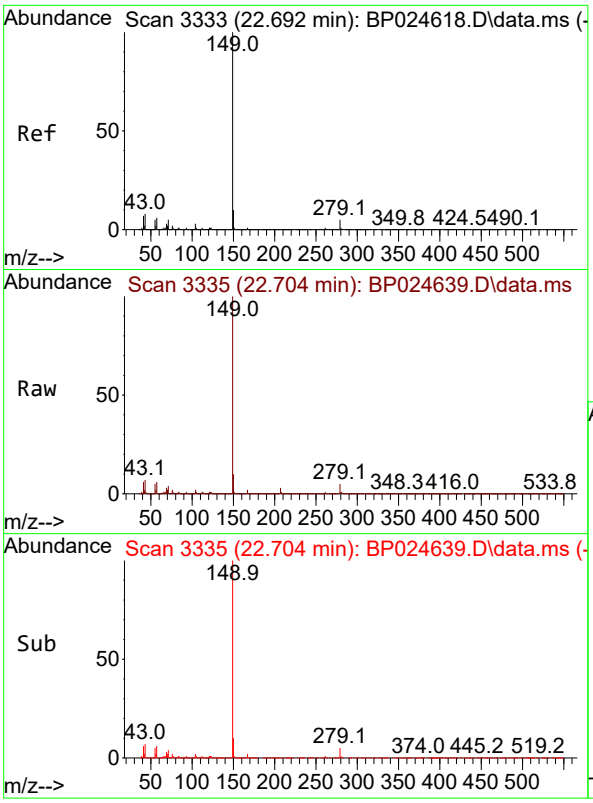


#84
Bis(2-ethylhexyl)phthalate
Concen: 49.165 ng
RT: 21.445 min Scan# 3121
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:149 Resp: 1512698

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.1	33.1
279	5.9	4.6	6.8



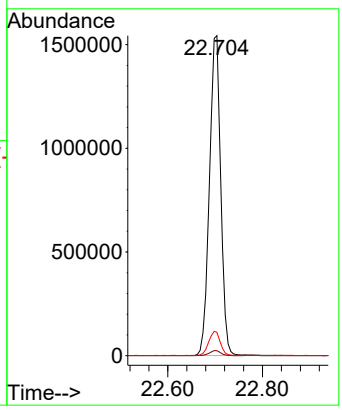


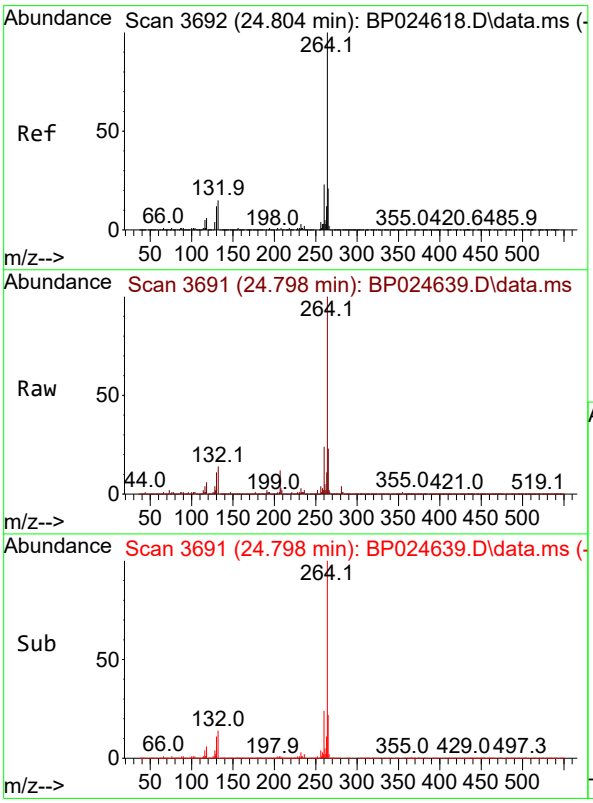
#85
Di-n-octyl phthalate
Concen: 50.745 ng
RT: 22.704 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:149 Resp: 2553144

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.7	6.3	9.5

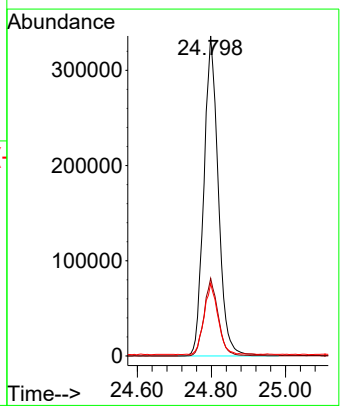


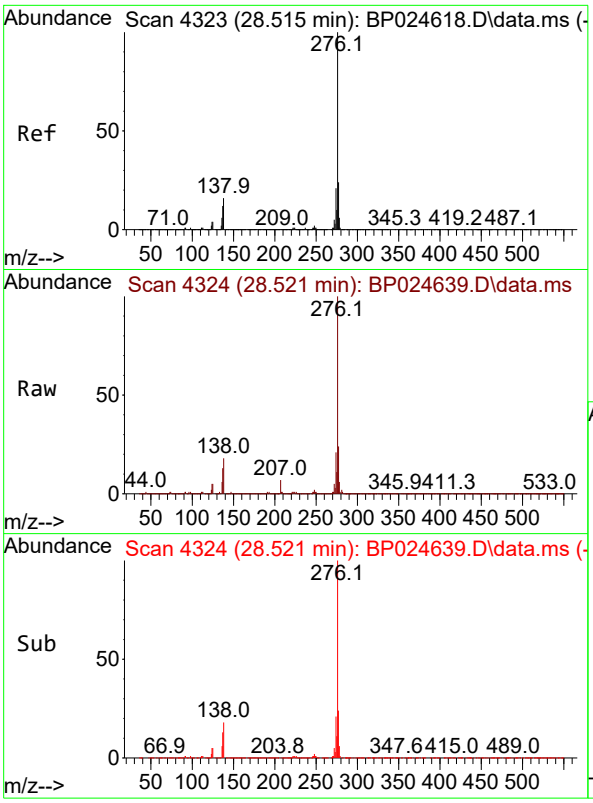


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.798 min Scan# 3691
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:264 Resp: 909133

Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.7	28.1
265	22.7	17.0	25.6



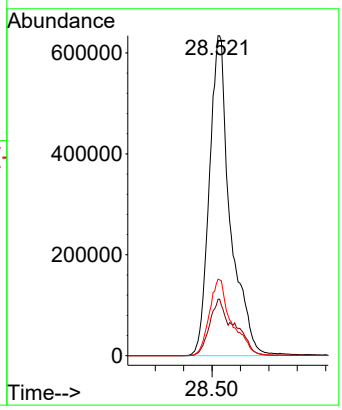


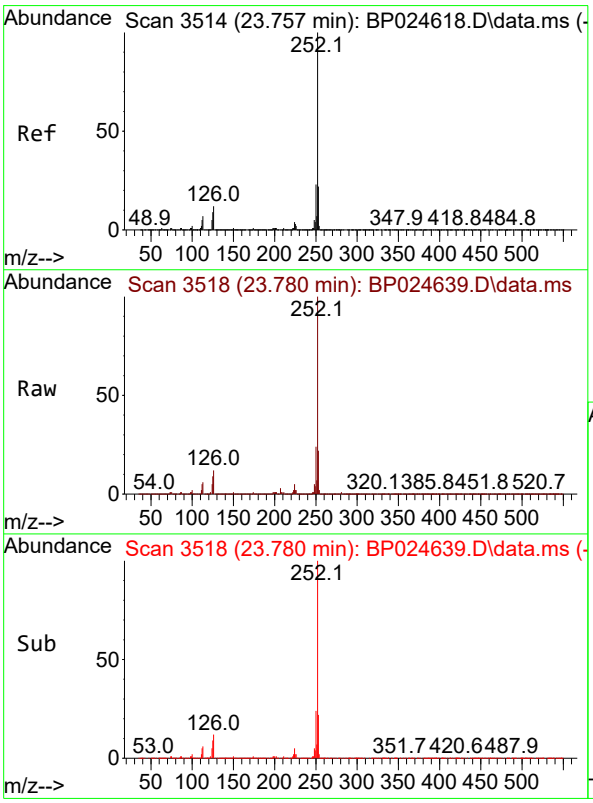
#87
Indeno(1,2,3-cd)pyrene
Concen: 48.618 ng
RT: 28.521 min Scan# 4
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:276 Resp: 3226858

Ion	Ratio	Lower	Upper
276	100		
138	21.0	11.2	16.8#
277	25.5	15.7	23.5#

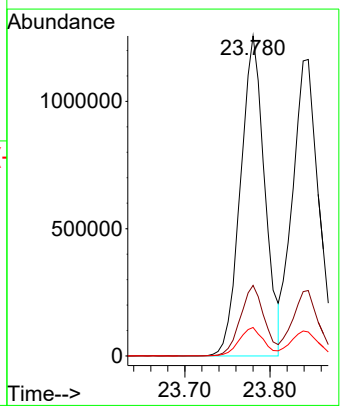


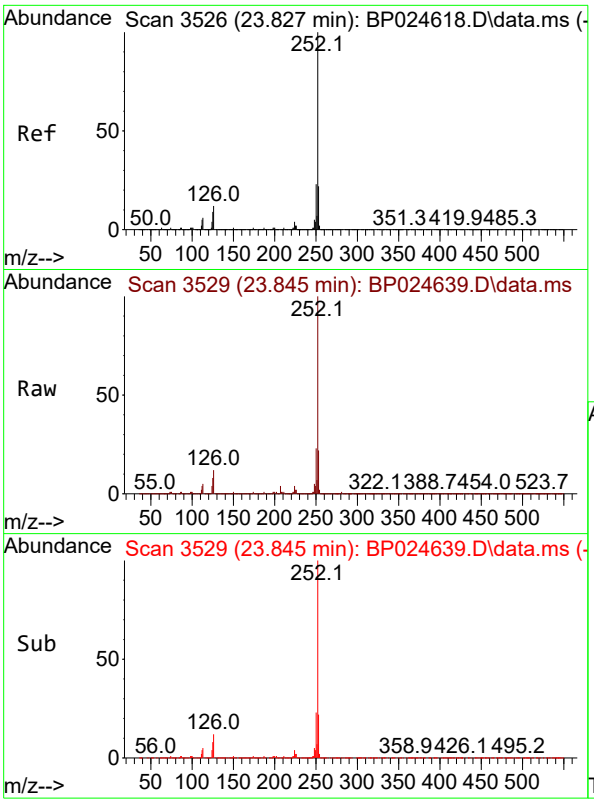


#88
Benzo(b)fluoranthene
Concen: 47.594 ng
RT: 23.780 min Scan# 3518
Delta R.T. 0.023 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:252 Resp: 2476684

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	8.9	7.5	11.3



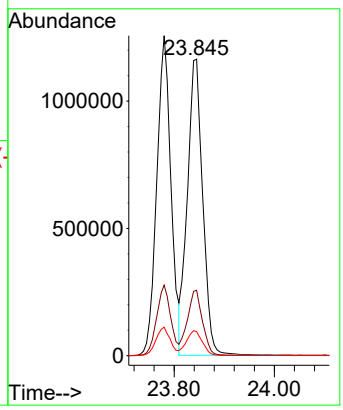


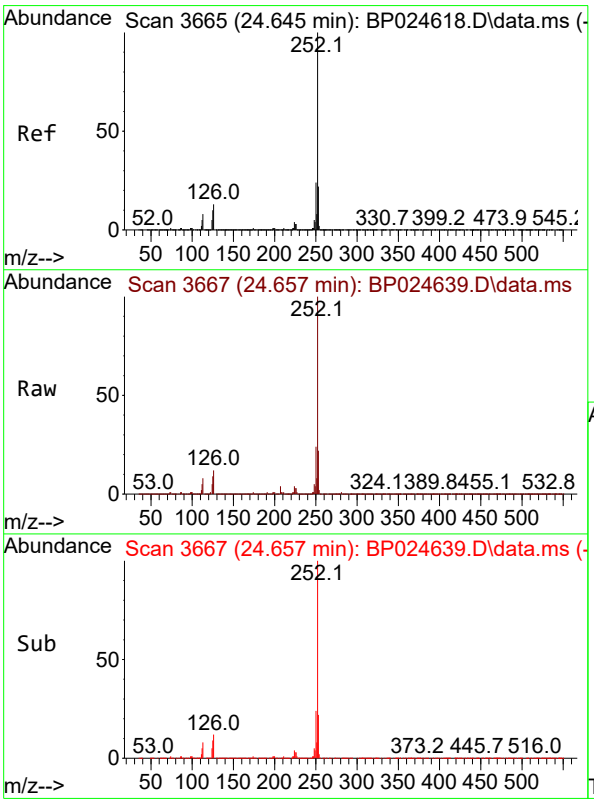
#89
Benzo(k)fluoranthene
Concen: 46.222 ng
RT: 23.845 min Scan# 3
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:252 Resp: 2478499

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	8.1	7.0	10.4

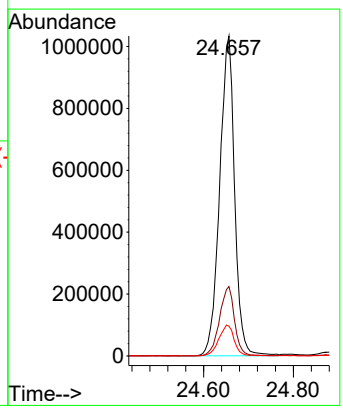


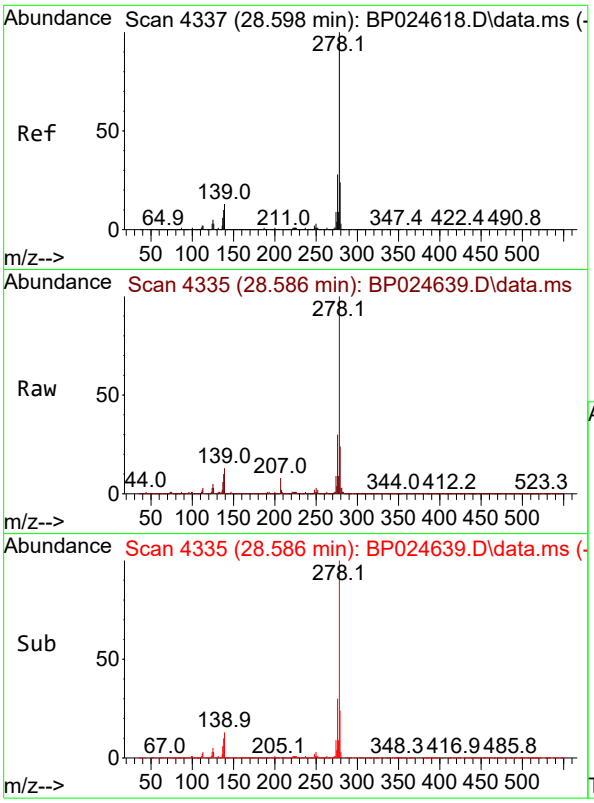


#90
Benzo(a)pyrene
Concen: 47.980 ng
RT: 24.657 min Scan# 3667
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:252 Resp: 2397923

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	9.3	8.1	12.1



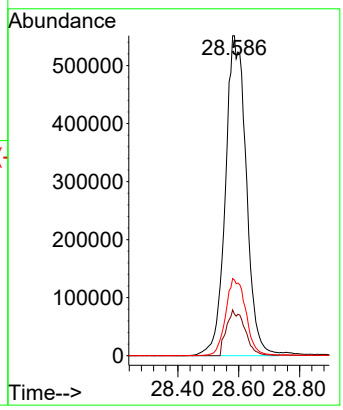


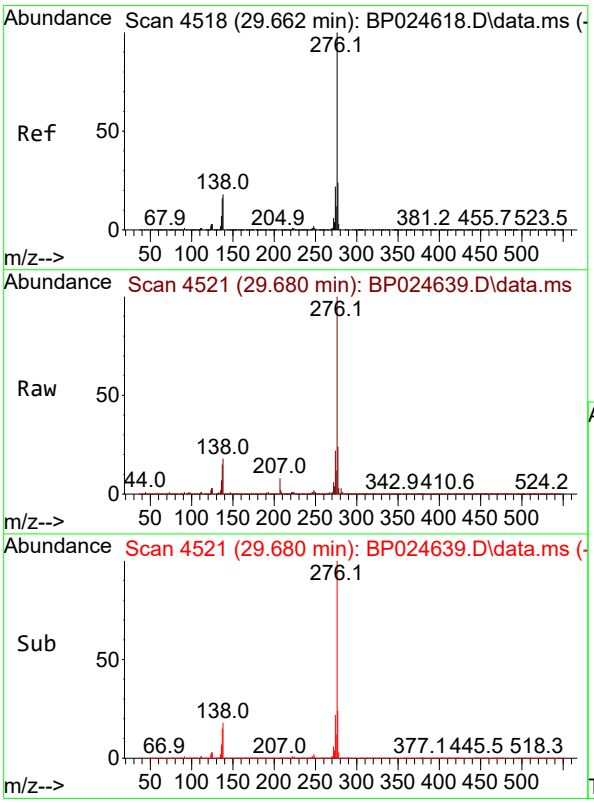
#91
Dibenzo(a,h)anthracene
Concen: 48.552 ng
RT: 28.586 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:278 Resp: 2621583

Ion	Ratio	Lower	Upper
278	100		
139	13.0	10.2	15.4
279	23.7	19.0	28.4

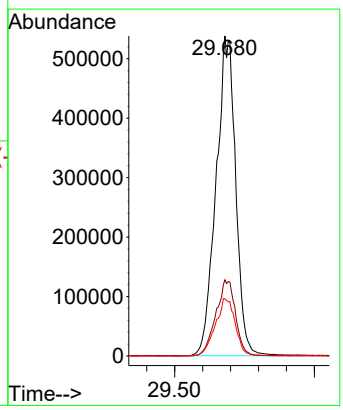




#92
Benzo(g,h,i)perylene
Concen: 48.888 ng
RT: 29.680 min Scan# 4521
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:276 Resp: 2625102

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.4
138	17.9	14.4	21.6



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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/16/25
Project:	Raymark Superfund Site	Date Received:	05/16/25
Client Sample ID:	L2-WC-5MSD	SDG No.:	Q1984
Lab Sample ID:	Q2071-13MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.4
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024711.D	1	05/19/25 09:45	05/20/25 17:19	PB168052

CAS Number	Parameter	Conc.	Qualifier	MDL	LOD	LOQ / CRQL	Units(Dry Weight)
TARGETS							
91-20-3	Naphthalene	0.97		0.016	0.092	0.12	mg/Kg
91-57-6	2-Methylnaphthalene	0.99		0.018	0.092	0.12	mg/Kg
208-96-8	Acenaphthylene	1.00		0.021	0.092	0.12	mg/Kg
83-32-9	Acenaphthene	1.00		0.015	0.092	0.12	mg/Kg
86-73-7	Fluorene	1.00		0.018	0.092	0.12	mg/Kg
85-01-8	Phenanthrene	0.98		0.015	0.092	0.12	mg/Kg
120-12-7	Anthracene	1.00		0.024	0.092	0.12	mg/Kg
206-44-0	Fluoranthene	1.00		0.021	0.092	0.12	mg/Kg
129-00-0	Pyrene	1.00		0.026	0.092	0.12	mg/Kg
56-55-3	Benzo(a)anthracene	1.00		0.016	0.092	0.12	mg/Kg
218-01-9	Chrysene	0.99		0.014	0.092	0.12	mg/Kg
205-99-2	Benzo(b)fluoranthene	1.00		0.014	0.092	0.12	mg/Kg
207-08-9	Benzo(k)fluoranthene	1.00		0.016	0.092	0.12	mg/Kg
50-32-8	Benzo(a)pyrene	1.00		0.021	0.092	0.12	mg/Kg
193-39-5	Indeno(1,2,3-cd)pyrene	1.00		0.021	0.092	0.12	mg/Kg
53-70-3	Dibenzo(a,h)anthracene	1.00		0.020	0.092	0.12	mg/Kg
191-24-2	Benzo(g,h,i)perylene	1.00		0.018	0.092	0.12	mg/Kg
SURROGATES							
4165-60-0	Nitrobenzene-d5	34.0	*	37 - 122		34%	SPK: 100
321-60-8	2-Fluorobiphenyl	36.6	*	44 - 115		37%	SPK: 100
1718-51-0	Terphenyl-d14	39.6	*	54 - 127		40%	SPK: 100
INTERNAL STANDARDS							
3855-82-1	1,4-Dichlorobenzene-d4	123000	7.657				
1146-65-2	Naphthalene-d8	492000	10.422				
15067-26-2	Acenaphthene-d10	321000	14.286				
1517-22-2	Phenanthrene-d10	665000	17.086				
1719-03-5	Chrysene-d12	748000	21.533				
1520-96-3	Perylene-d12	854000	24.809				

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

Report of Analysis

Client:	Nobis Group	Date Collected:	05/16/25
Project:	Raymark Superfund Site	Date Received:	05/16/25
Client Sample ID:	L2-WC-5MSD	SDG No.:	Q1984
Lab Sample ID:	Q2071-13MSD	Matrix:	SOIL
Analytical Method:	8270E	% Solid:	84.4
Sample Wt/Vol:	50.07 Units: g	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group3
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
BP024711.D	1	05/19/25 09:45	05/20/25 17:19	PB168052

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_P\Data\BP052025\
Data File : BP024711.D
Acq On : 20 May 2025 17:19
Operator : RC/JU
Sample : Q2071-13MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Quant Time: May 20 18:22:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.657	152	122975	20.000	ng		0.00
21) Naphthalene-d8	10.422	136	491800	20.000	ng		-0.01
39) Acenaphthene-d10	14.286	164	320946	20.000	ng		-0.02
64) Phenanthrene-d10	17.086	188	665178	20.000	ng		-0.01
76) Chrysene-d12	21.533	240	748102	20.000	ng		0.01
86) Perylene-d12	24.809	264	853641	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.293	112	441613	61.421	ng		0.00
7) Phenol-d6	6.857	99	567886	61.886	ng		0.00
23) Nitrobenzene-d5	8.804	82	330842	33.990	ng		0.00
42) 2,4,6-Tribromophenol	15.810	330	398787	73.293	ng		0.00
45) 2-Fluorobiphenyl	12.898	172	896144	36.581	ng		0.00
79) Terphenyl-d14	19.821	244	1725728	39.555	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.222	88	120614	35.725	ng		96
3) Pyridine	3.616	79	266405	35.586	ng		96
4) n-Nitrosodimethylamine	3.528	42	130412	39.459	ng		92
6) Aniline	6.999	93	209263	17.663	ng		99
8) 2-Chlorophenol	7.234	128	349535	42.824	ng		97
9) Benzaldehyde	6.810	77	182676	30.753	ng		98
10) Phenol	6.887	94	380945	40.222	ng		98
11) bis(2-Chloroethyl)ether	7.087	93	279363	35.897	ng		99
12) 1,3-Dichlorobenzene	7.546	146	380963	40.569	ng		98
13) 1,4-Dichlorobenzene	7.693	146	387988	41.080	ng		100
14) 1,2-Dichlorobenzene	8.004	146	370926	40.304	ng		98
15) Benzyl Alcohol	7.904	79	275301	39.479	ng		98
16) 2,2'-oxybis(1-Chloropr...	8.175	45	330818	35.495	ng		98
17) 2-Methylphenol	8.116	107	275838	40.606	ng		96
18) Hexachloroethane	8.716	117	140181	38.732	ng		97
19) n-Nitroso-di-n-propyla...	8.457	70	217963	34.338	ng		95
20) 3+4-Methylphenols	8.446	107	369819	40.022	ng		94
22) Acetophenone	8.475	105	484715	39.456	ng	#	99
24) Nitrobenzene	8.846	77	327174	38.196	ng		94
25) Isophorone	9.369	82	624540	36.990	ng		98
26) 2-Nitrophenol	9.551	139	190629	45.417	ng		97
27) 2,4-Dimethylphenol	9.622	122	318305	43.013	ng		99
28) bis(2-Chloroethoxy)met...	9.846	93	380446	37.716	ng		98
29) 2,4-Dichlorophenol	10.104	162	329917	46.006	ng		95
30) 1,2,4-Trichlorobenzene	10.293	180	346405	42.866	ng		97
31) Naphthalene	10.475	128	1046009	41.043	ng		100
32) Benzoic acid	9.810	122	204555	40.996	ng		95
33) 4-Chloroaniline	10.598	127	140978	13.708	ng		97
34) Hexachlorobutadiene	10.757	225	233237	44.553	ng		98
35) Caprolactam	11.387	113	106892	41.198	ng		98
36) 4-Chloro-3-methylphenol	11.740	107	371404	42.469	ng		97
37) 2-Methylnaphthalene	12.087	142	687037	41.633	ng		99
38) 1-Methylnaphthalene	12.310	142	728884	41.281	ng		100
40) 1,2,4,5-Tetrachloroben...	12.463	216	416739	44.715	ng		99
41) Hexachlorocyclopentadiene	12.434	237	526765	93.212	ng		95
43) 2,4,6-Trichlorophenol	12.716	196	282795	46.847	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024711.D
Acq On : 20 May 2025 17:19
Operator : RC/JU
Sample : Q2071-13MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Quant Time: May 20 18:22:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

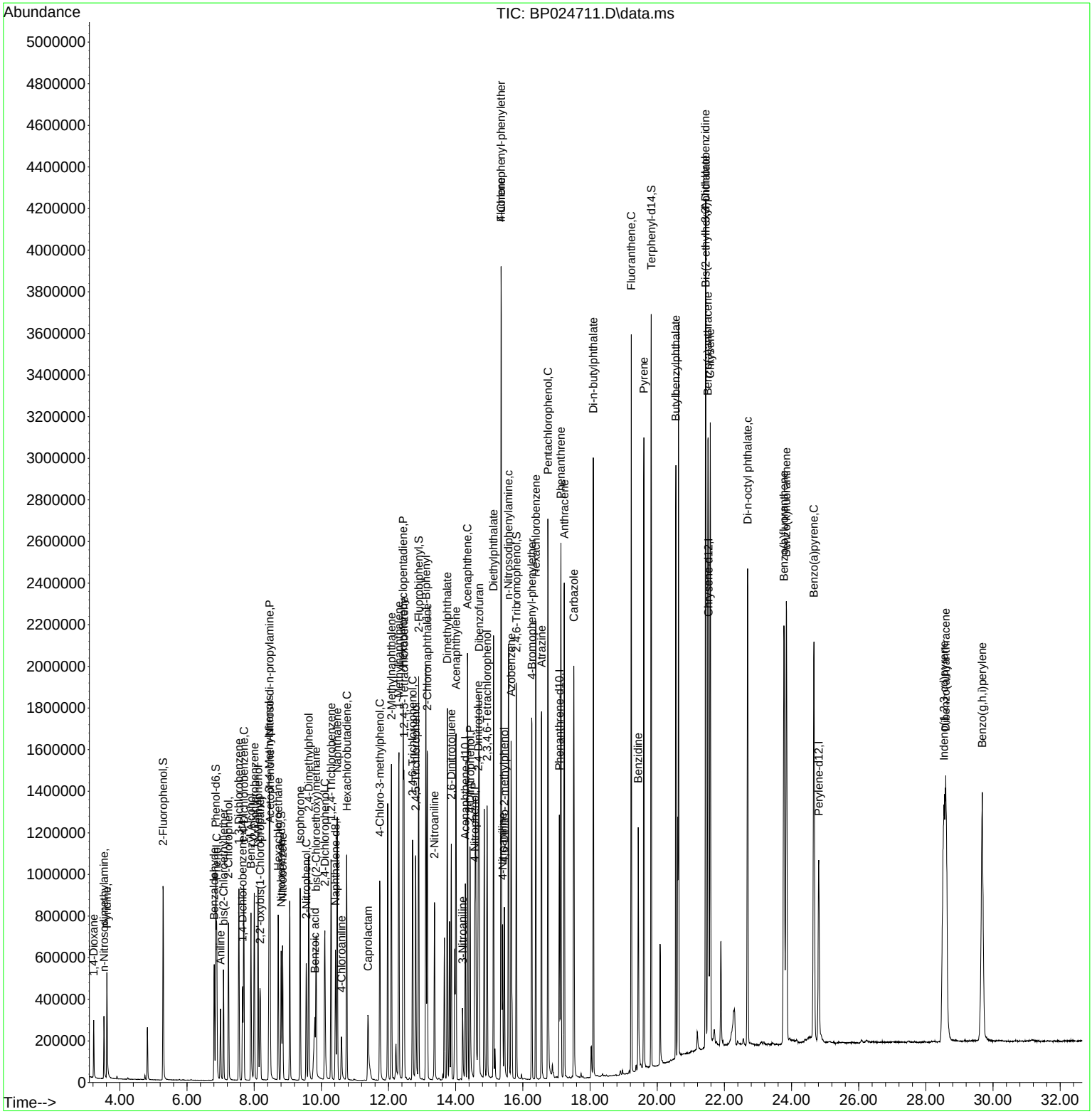
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.810	196	311927	46.421	ng		97
46) 1,1'-Biphenyl	13.116	154	1027188	43.302	ng		99
47) 2-Chloronaphthalene	13.157	162	775224	42.861	ng		99
48) 2-Nitroaniline	13.369	65	234640	43.818	ng		96
49) Acenaphthylene	14.010	152	1315357	43.457	ng		99
50) Dimethylphthalate	13.751	163	1064030	43.496	ng		100
51) 2,6-Dinitrotoluene	13.869	165	229768	44.474	ng		99
52) Acenaphthene	14.351	154	743892	42.751	ng		99
53) 3-Nitroaniline	14.204	138	99383	18.840	ng		96
54) 2,4-Dinitrophenol	14.434	184	285574	87.045	ng		93
55) Dibenzofuran	14.698	168	1180487	42.532	ng		98
56) 4-Nitrophenol	14.569	139	362287	79.362	ng		96
57) 2,4-Dinitrotoluene	14.675	165	330366	45.357	ng		98
58) Fluorene	15.351	166	988895	43.696	ng		100
59) 2,3,4,6-Tetrachlorophenol	14.933	232	279069	44.770	ng		98
60) Diethylphthalate	15.128	149	1089311	44.058	ng		99
61) 4-Chlorophenyl-phenyle...	15.351	204	501152	44.403	ng		100
62) 4-Nitroaniline	15.398	138	207069	40.652	ng		98
63) Azobenzene	15.651	77	958534	45.318	ng		95
65) 4,6-Dinitro-2-methylph...	15.451	198	191651	44.605	ng		97
66) n-Nitrosodiphenylamine	15.569	169	863260	42.251	ng		98
67) 4-Bromophenyl-phenylether	16.269	248	347577	44.345	ng		96
68) Hexachlorobenzene	16.386	284	435192	43.695	ng		97
69) Atrazine	16.557	200	339465	45.337	ng		99
70) Pentachlorophenol	16.745	266	562732	100.652	ng		99
71) Phenanthrene	17.133	178	1532792	41.451	ng		100
72) Anthracene	17.233	178	1576935	42.386	ng		100
73) Carbazole	17.516	167	1441608	42.811	ng		100
74) Di-n-butylphthalate	18.098	149	1959105	45.238	ng		100
75) Fluoranthene	19.227	202	1858609	42.998	ng		99
77) Benzidine	19.433	184	704965	34.599	ng		99
78) Pyrene	19.604	202	1937316	43.220	ng		100
80) Butylbenzylphthalate	20.557	149	915890	45.943	ng		93
81) Benzo(a)anthracene	21.510	228	2005440	42.692	ng		99
82) 3,3'-Dichlorobenzidine	21.439	252	461135	26.430	ng		99
83) Chrysene	21.580	228	1868642	41.964	ng		100
84) Bis(2-ethylhexyl)phtha...	21.445	149	1325702	45.244	ng		99
85) Di-n-octyl phthalate	22.692	149	2277377	47.529	ng		99
87) Indeno(1,2,3-cd)pyrene	28.539	276	2658846	42.664	ng	#	87
88) Benzo(b)fluoranthene	23.774	252	2115032	43.287	ng		99
89) Benzo(k)fluoranthene	23.845	252	2141971	42.543	ng		99
90) Benzo(a)pyrene	24.668	252	2012486	42.886	ng		99
91) Dibenzo(a,h)anthracene	28.592	278	2188260	43.161	ng		98
92) Benzo(g,h,i)perylene	29.680	276	2145626	42.556	ng		98

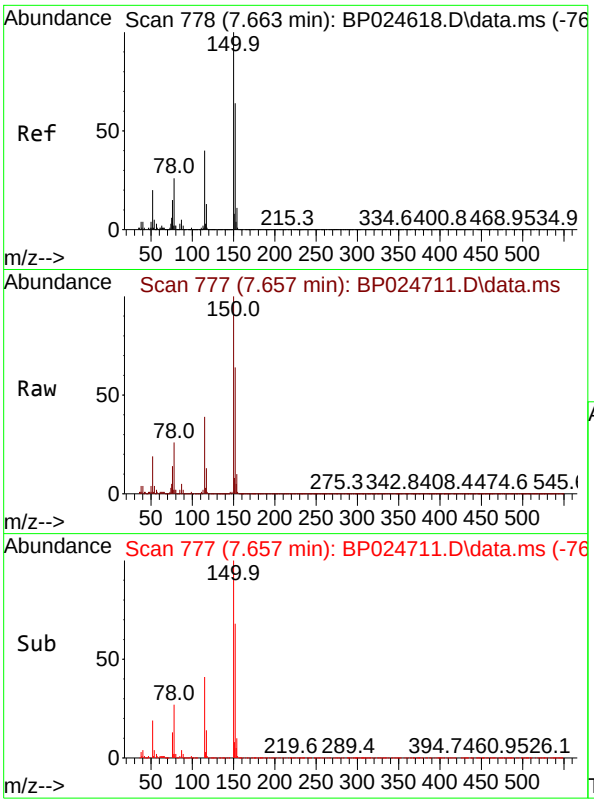
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024711.D
Acq On : 20 May 2025 17:19
Operator : RC/JU
Sample : Q2071-13MSD
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Quant Time: May 20 18:22:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



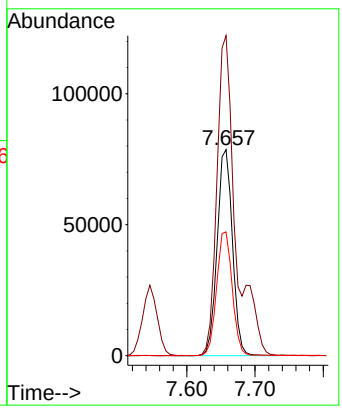


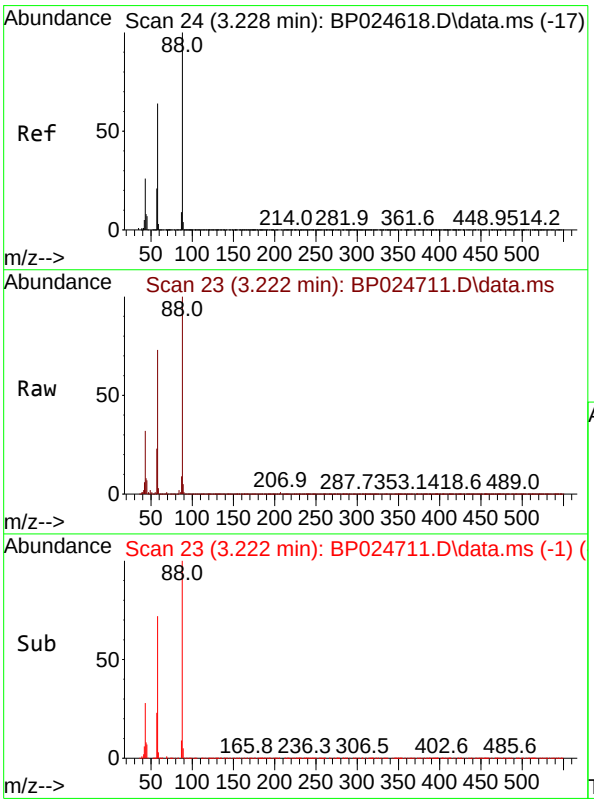
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.657 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:152 Resp: 122975

Ion	Ratio	Lower	Upper
152	100		
150	155.2	125.9	188.9
115	60.1	50.1	75.1

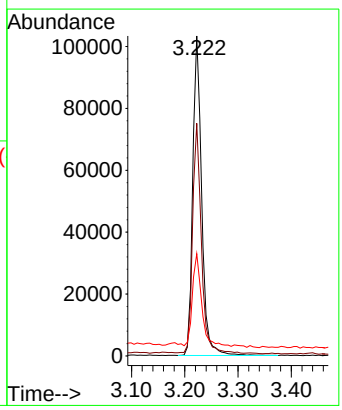


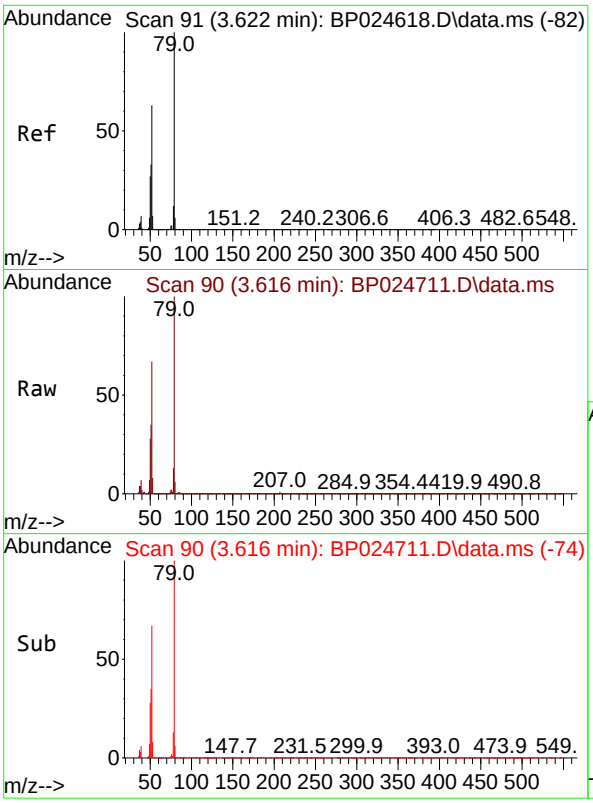


#2
1,4-Dioxane
Concen: 35.725 ng
RT: 3.222 min Scan# 23
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion: 88 Resp: 120614

Ion	Ratio	Lower	Upper
88	100		
58	70.2	54.0	81.0
43	29.8	21.4	32.0



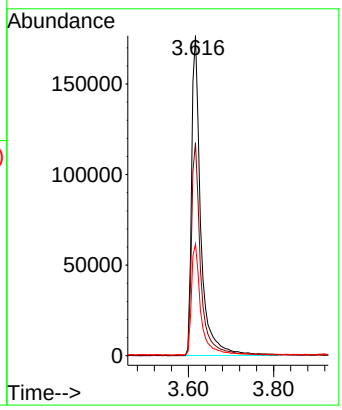


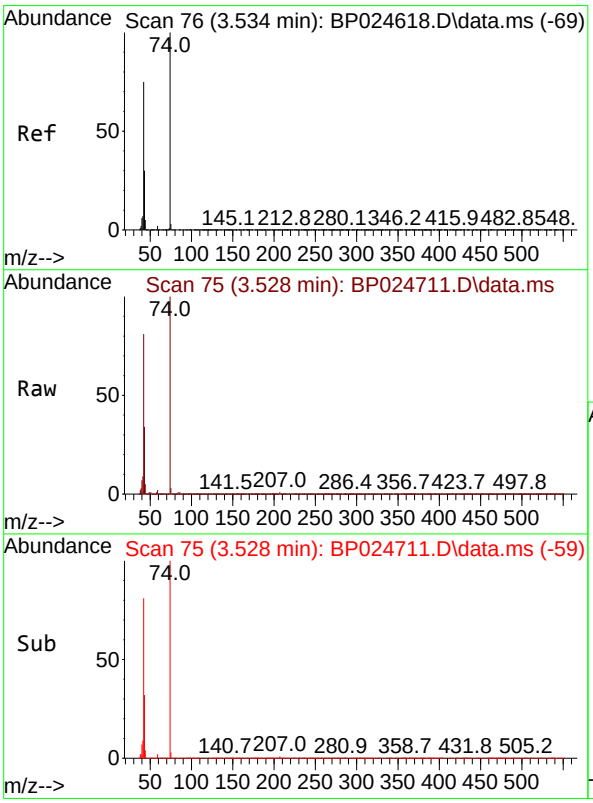
#3
Pyridine
Concen: 35.586 ng
RT: 3.616 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion: 79 Resp: 266405

Ion	Ratio	Lower	Upper
79	100		
52	66.6	50.2	75.2
51	34.9	26.8	40.2

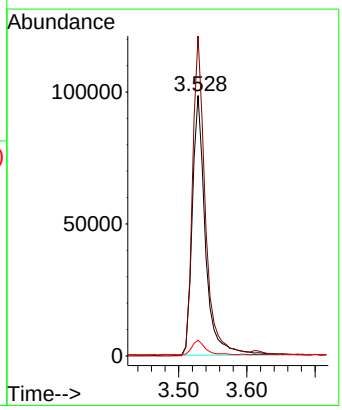


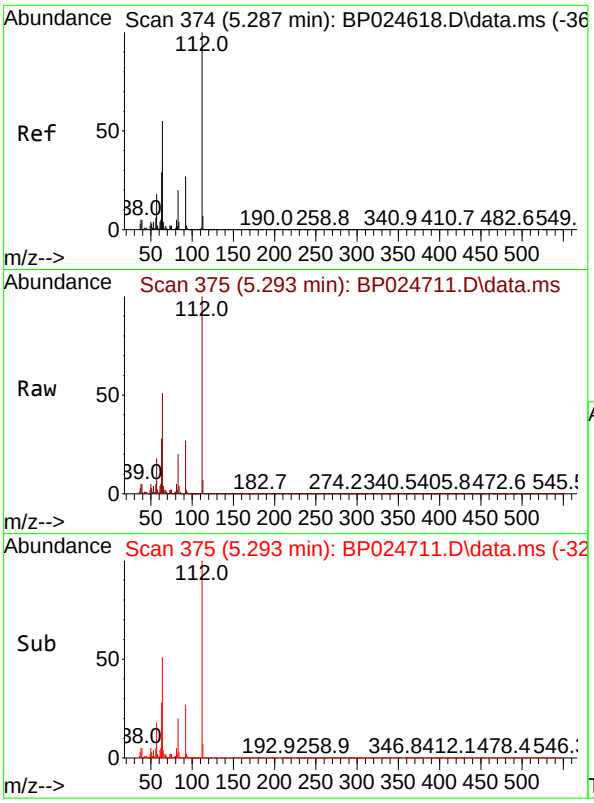


#4
n-Nitrosodimethylamine
Concen: 39.459 ng
RT: 3.528 min Scan# 75
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion: 42 Resp: 130412

Ion	Ratio	Lower	Upper
42	100		
74	122.8	106.2	159.2
44	6.0	5.4	8.2



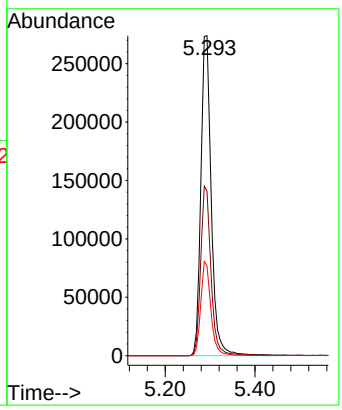


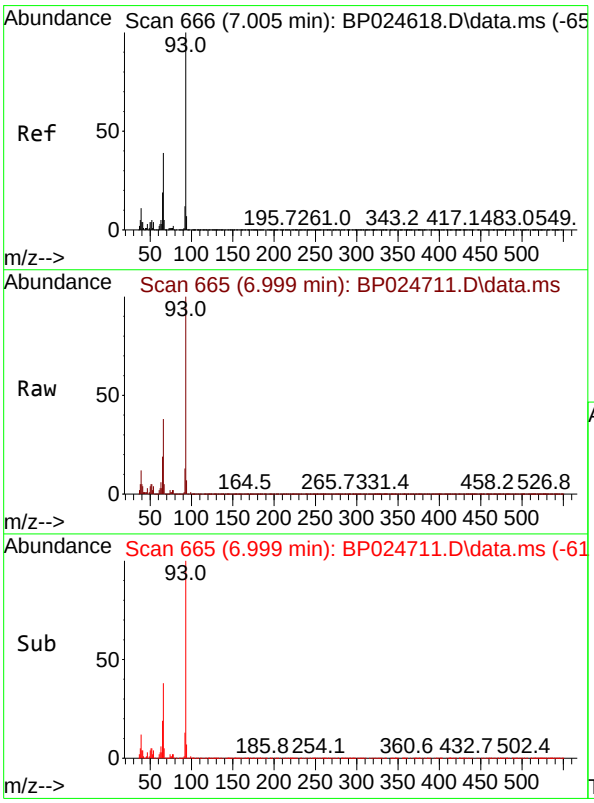
#5
2-Fluorophenol
Concen: 61.421 ng
RT: 5.293 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:112 Resp: 441613

Ion	Ratio	Lower	Upper
112	100		
64	51.4	44.1	66.1
63	28.0	23.5	35.3

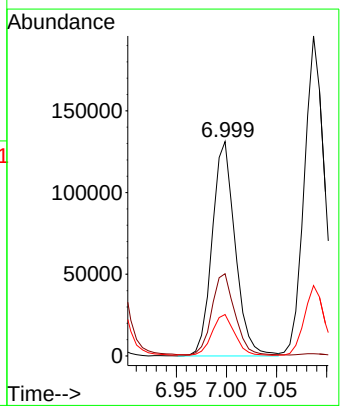


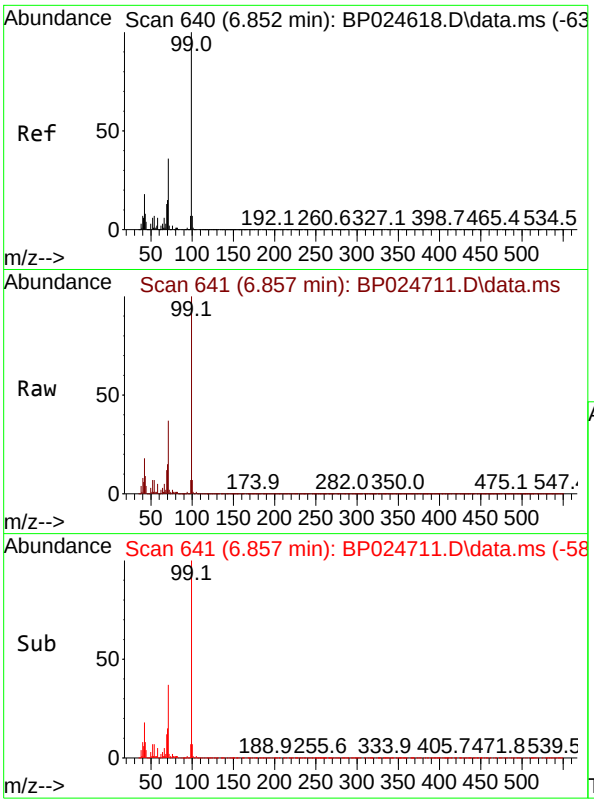


#6
Aniline
Concen: 17.663 ng
RT: 6.999 min Scan# 665
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion: 93 Resp: 209263

Ion	Ratio	Lower	Upper
93	100		
66	38.3	31.0	46.6
65	19.4	15.5	23.3



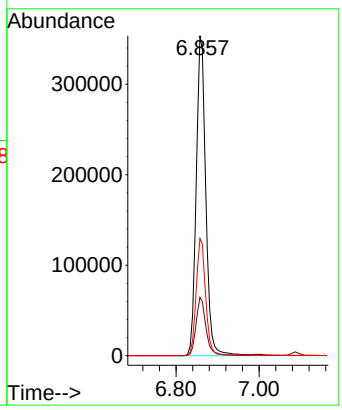


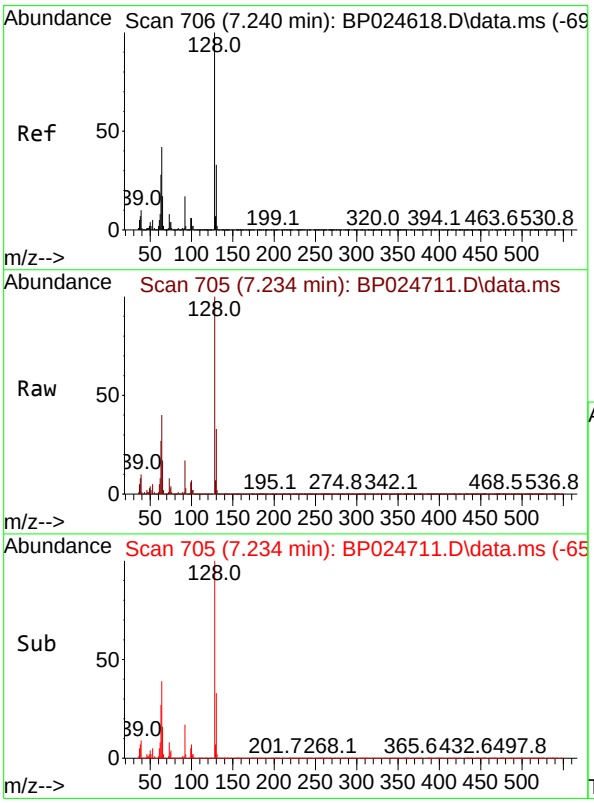
#7
Phenol-d6
Concen: 61.886 ng
RT: 6.857 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion: 99 Resp: 567886

Ion	Ratio	Lower	Upper
99	100		
42	18.2	14.4	21.6
71	36.6	29.2	43.8

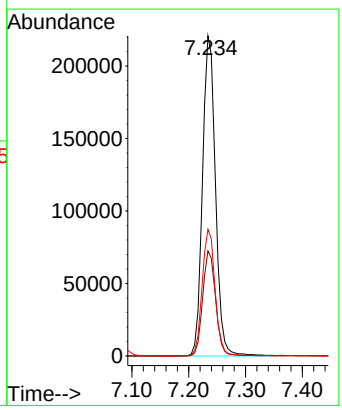


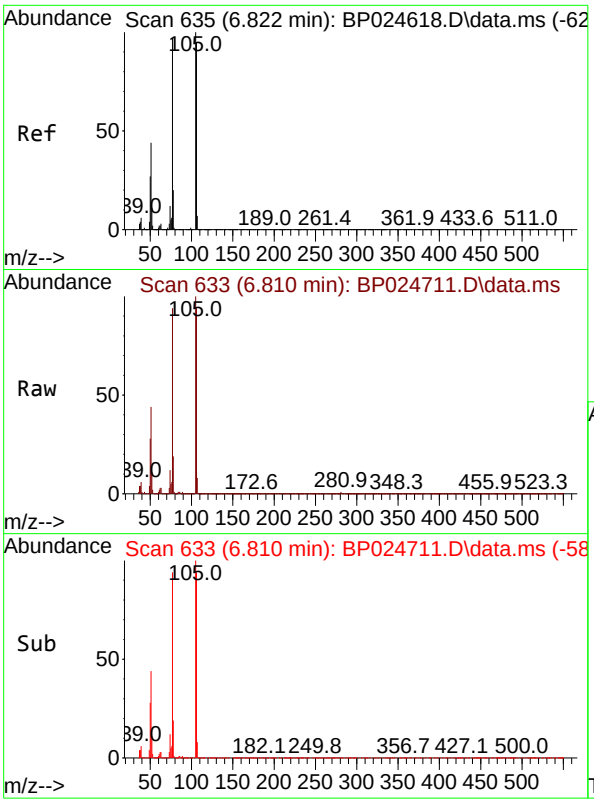


#8
2-Chlorophenol
Concen: 42.824 ng
RT: 7.234 min Scan# 705
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:128 Resp: 349535

Ion	Ratio	Lower	Upper
128	100		
130	32.8	13.0	53.0
64	39.6	22.3	62.3



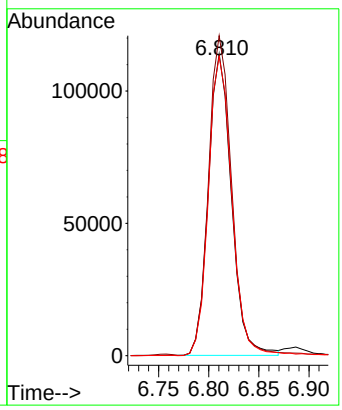


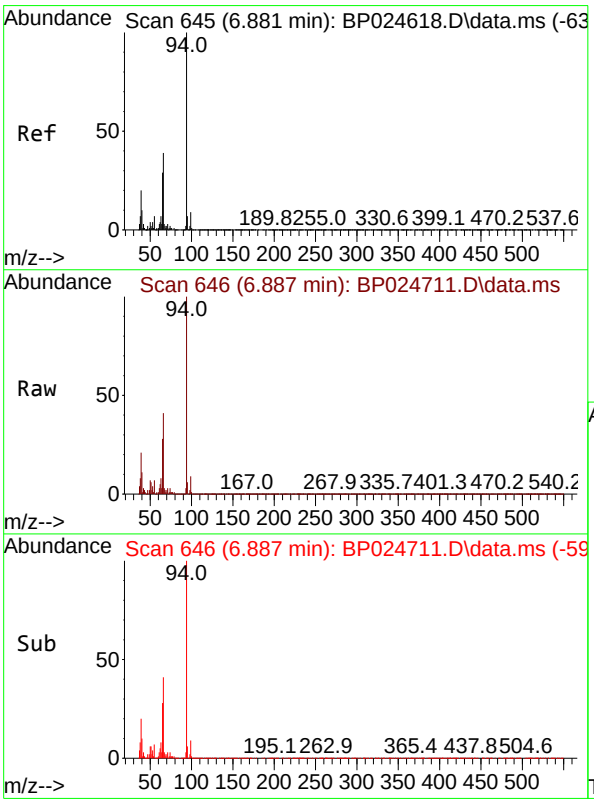
#9
Benzaldehyde
Concen: 30.753 ng
RT: 6.810 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion: 77 Resp: 182676

Ion	Ratio	Lower	Upper
77	100		
105	106.0	83.3	123.3
106	99.2	78.0	118.0

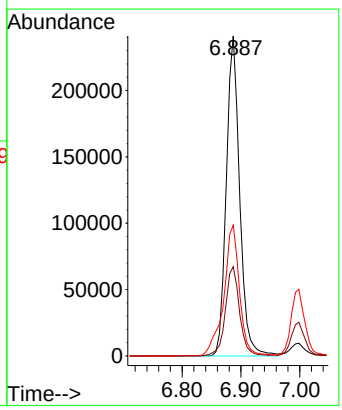


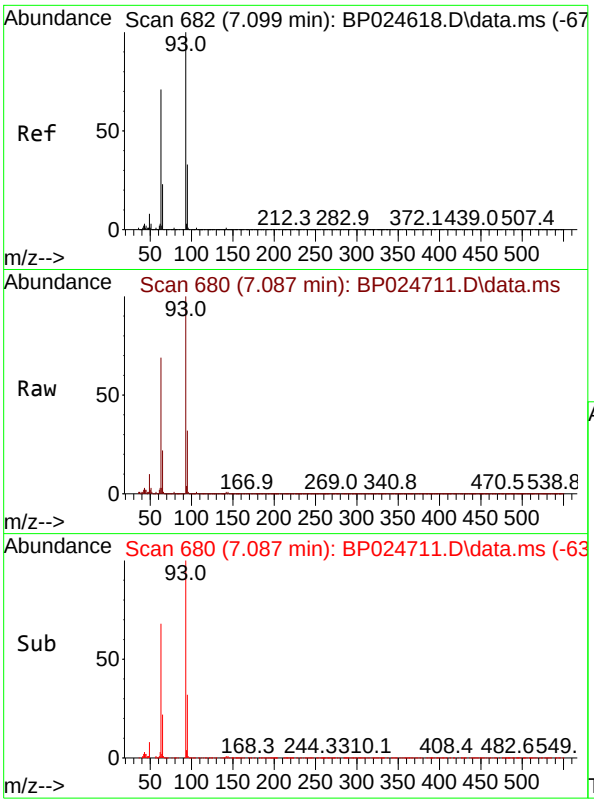


#10
Phenol
Concen: 40.222 ng
RT: 6.887 min Scan# 646
Delta R.T. 0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion: 94 Resp: 380945

Ion	Ratio	Lower	Upper
94	100		
65	27.9	8.7	48.7
66	40.8	19.4	59.4



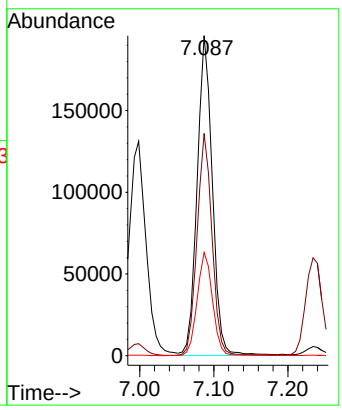


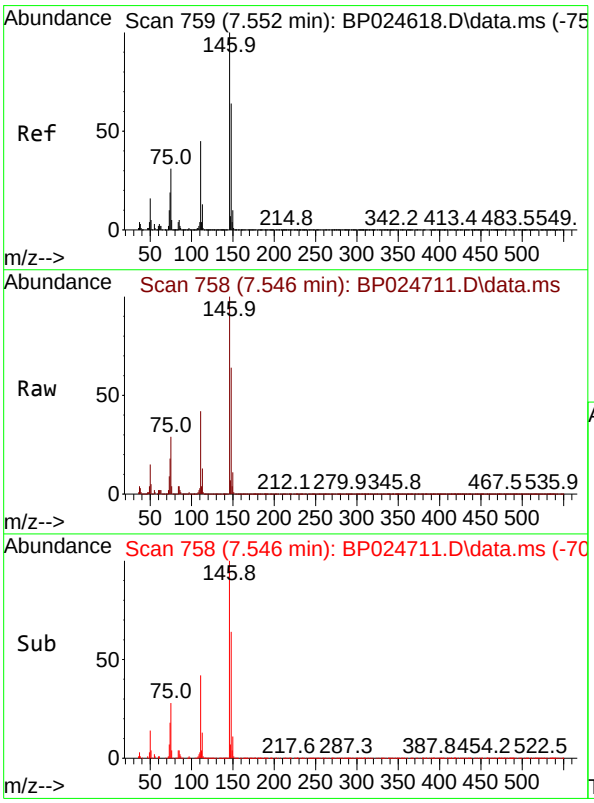
#11
bis(2-Chloroethyl)ether
Concen: 35.897 ng
RT: 7.087 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion: 93 Resp: 279363

Ion	Ratio	Lower	Upper
93	100		
63	69.4	50.6	90.6
95	32.2	12.9	52.9

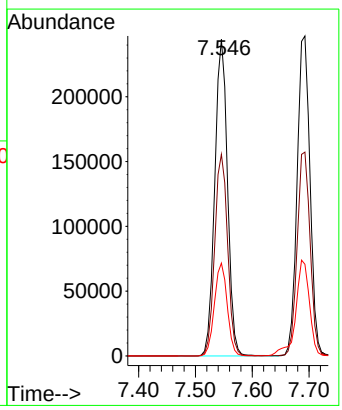


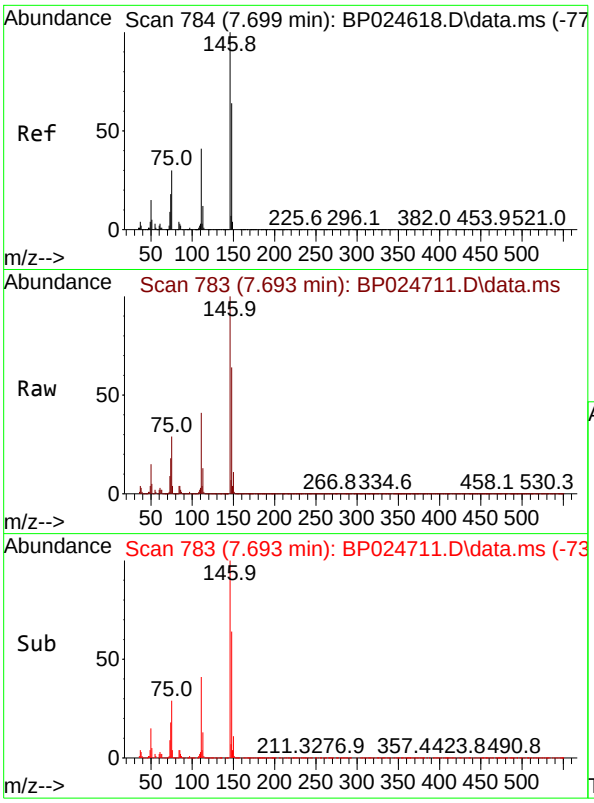


#12
1,3-Dichlorobenzene
Concen: 40.569 ng
RT: 7.546 min Scan# 758
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:146 Resp: 380963

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.4	77.2
75	29.3	25.2	37.8



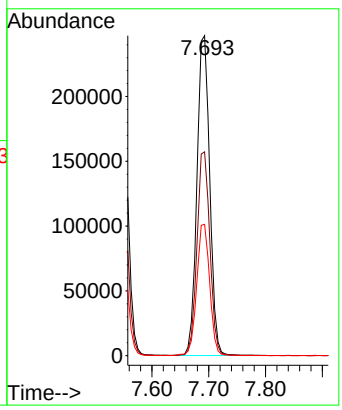


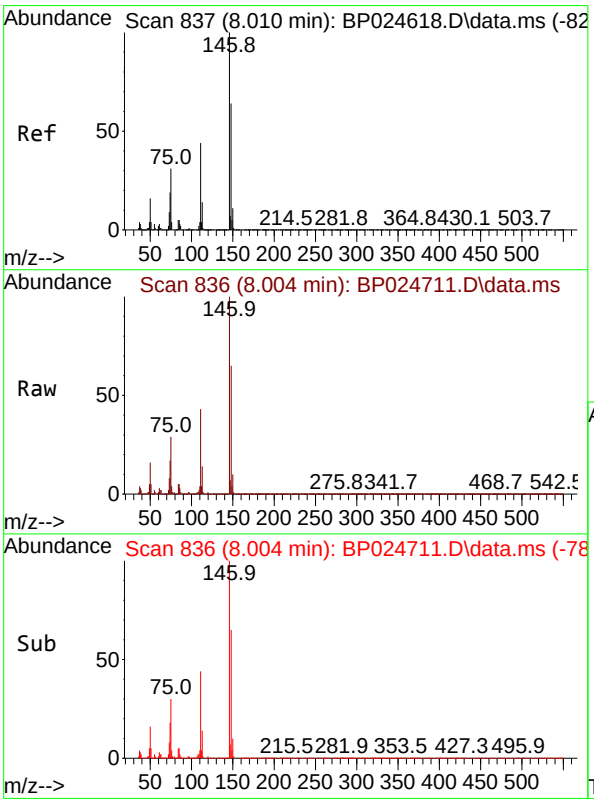
#13
1,4-Dichlorobenzene
Concen: 41.080 ng
RT: 7.693 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:146 Resp: 387988

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.0	76.6
111	41.0	33.0	49.6

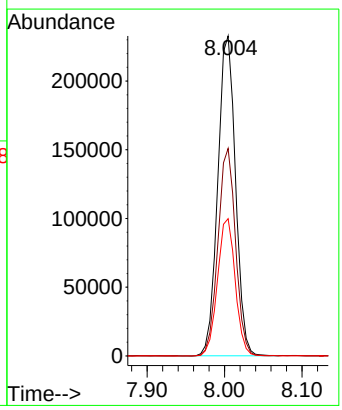


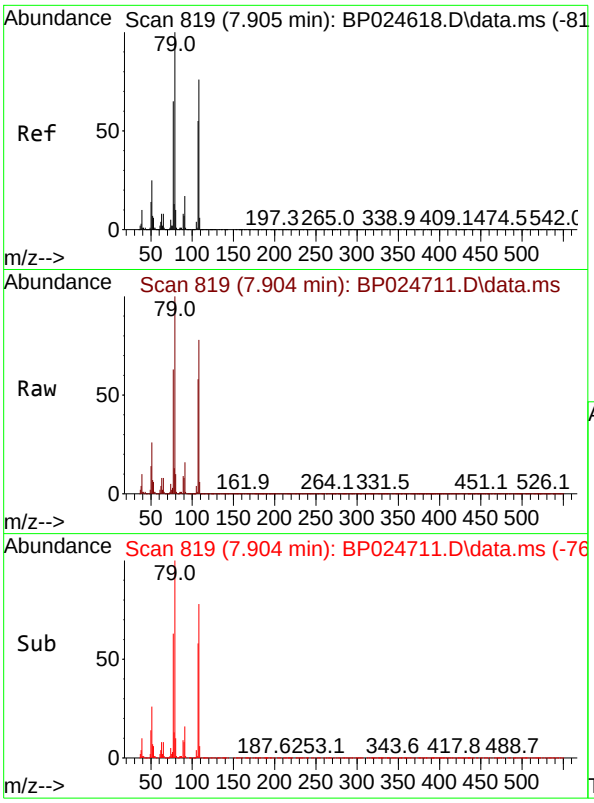


#14
1,2-Dichlorobenzene
Concen: 40.304 ng
RT: 8.004 min Scan# 836
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:146 Resp: 370926

Ion	Ratio	Lower	Upper
146	100		
148	64.9	51.0	76.4
111	42.9	35.2	52.8



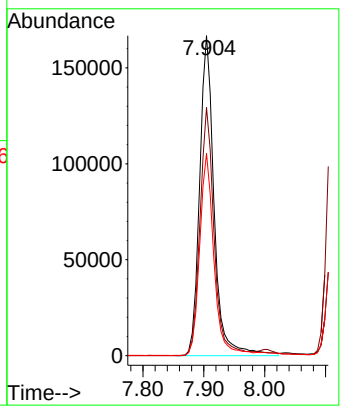


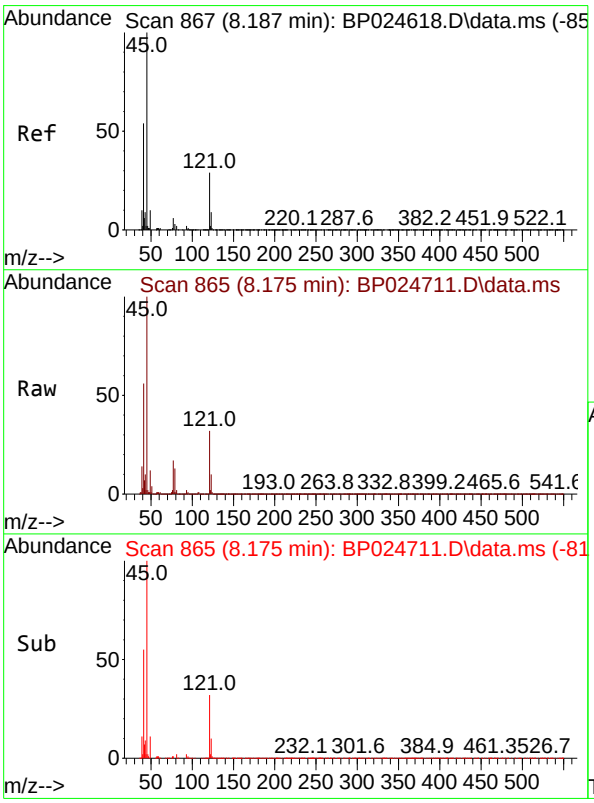
#15
Benzyl Alcohol
Concen: 39.479 ng
RT: 7.904 min Scan# 81
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion: 79 Resp: 275301

Ion	Ratio	Lower	Upper
79	100		
108	77.6	60.8	91.2
77	63.2	51.9	77.9

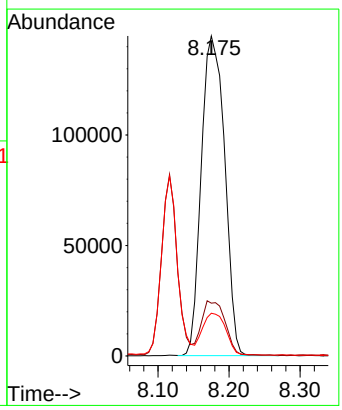


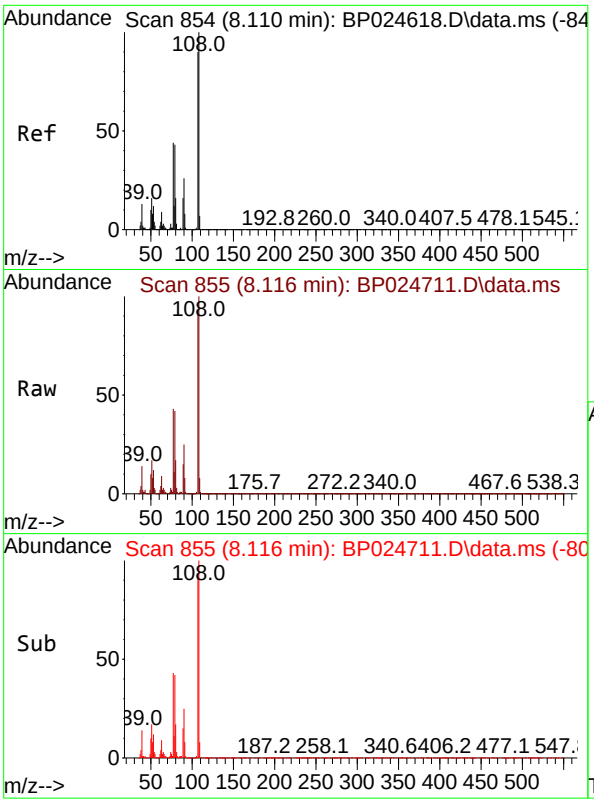


#16
2,2'-oxybis(1-Chloropropane)
Concen: 35.495 ng
RT: 8.175 min Scan# 865
Delta R.T. -0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion: 45 Resp: 330818

Ion	Ratio	Lower	Upper
45	100		
77	16.5	0.0	37.7
79	13.4	0.0	34.0



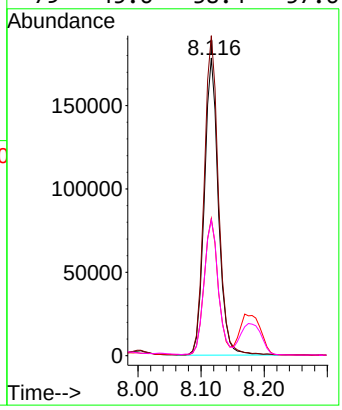


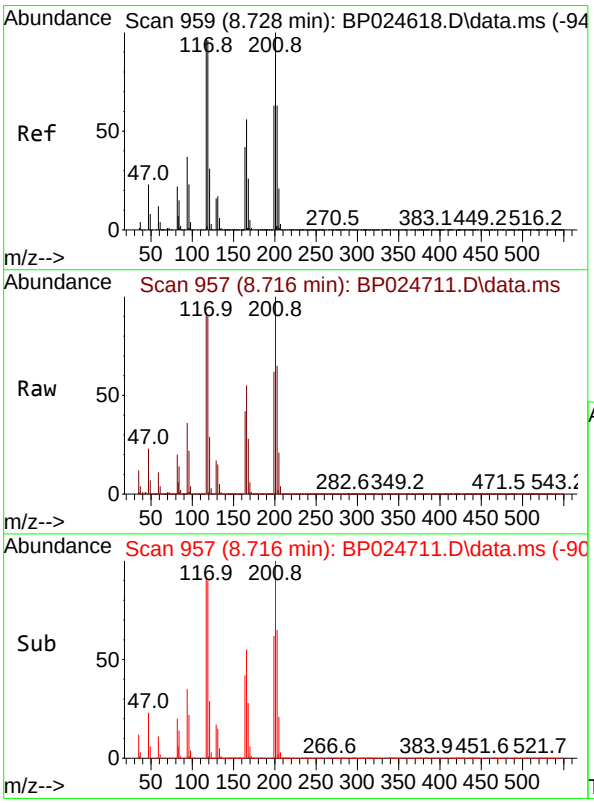
#17
2-Methylphenol
Concen: 40.606 ng
RT: 8.116 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:107 Resp: 275838

Ion	Ratio	Lower	Upper
107	100		
108	107.5	88.9	133.3
77	46.0	39.0	58.6
79	45.6	38.4	57.6

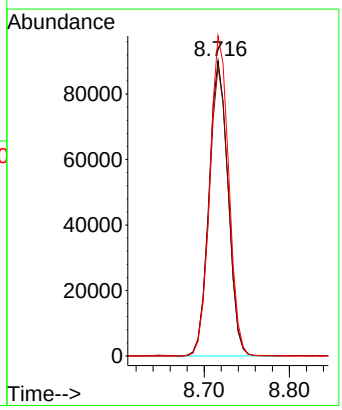


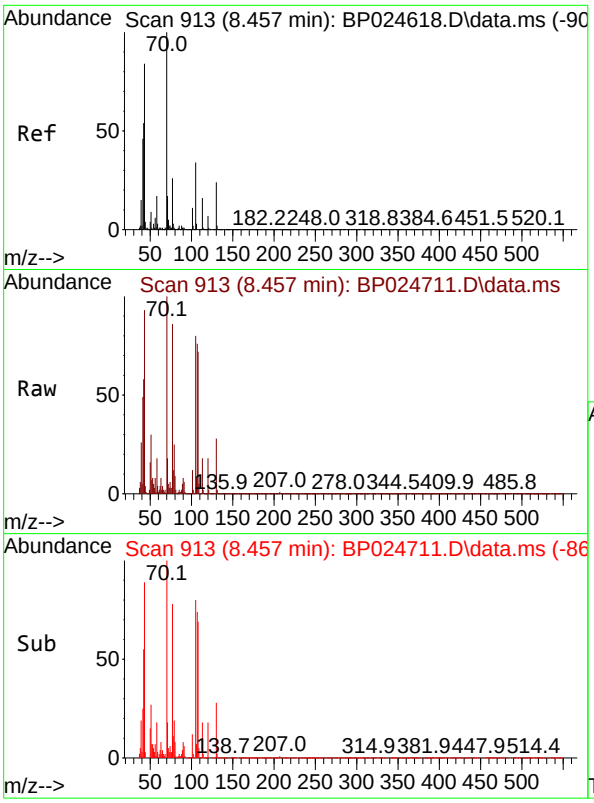


#18
Hexachloroethane
Concen: 38.732 ng
RT: 8.716 min Scan# 957
Delta R.T. -0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:117 Resp: 140181

Ion	Ratio	Lower	Upper
117	100		
119	98.1	79.4	119.0
201	108.4	82.7	124.1



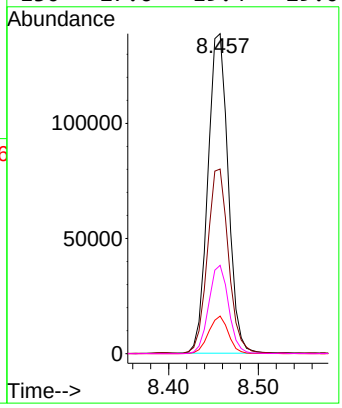


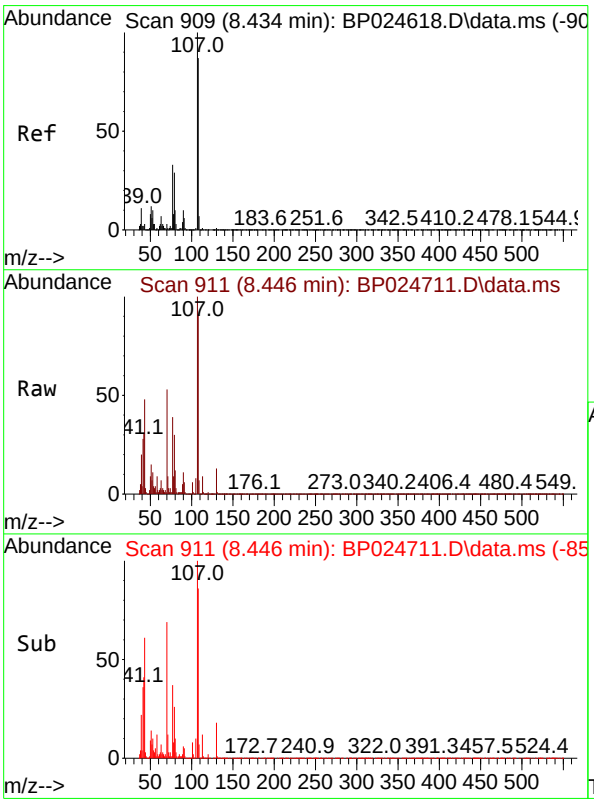
#19
n-Nitroso-di-n-propylamine
Concen: 34.338 ng
RT: 8.457 min Scan# 91
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion: 70 Resp: 217963

Ion	Ratio	Lower	Upper
70	100		
42	57.7	43.0	64.6
101	11.8	8.7	13.1
130	27.6	19.4	29.0

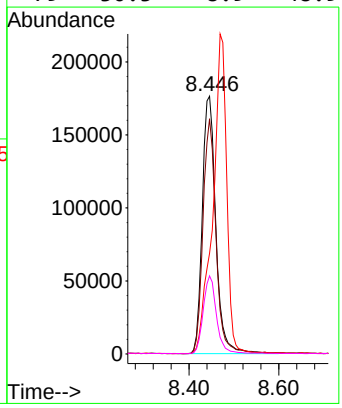


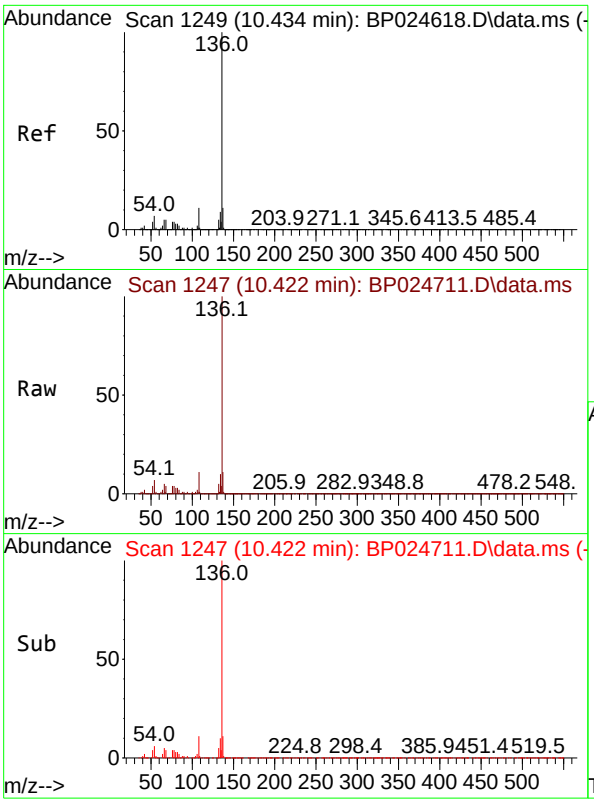


#20
3+4-Methylphenols
Concen: 40.022 ng
RT: 8.446 min Scan# 911
Delta R.T. 0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:107 Resp: 369819

Ion	Ratio	Lower	Upper
107	100		
108	91.2	66.7	106.7
77	39.0	13.1	53.1
79	30.3	8.9	48.9



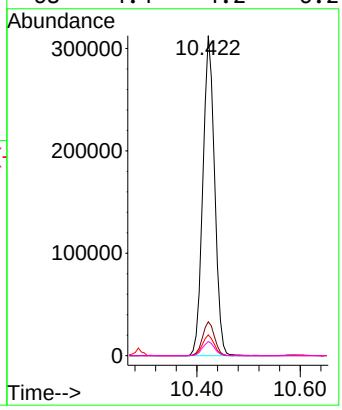


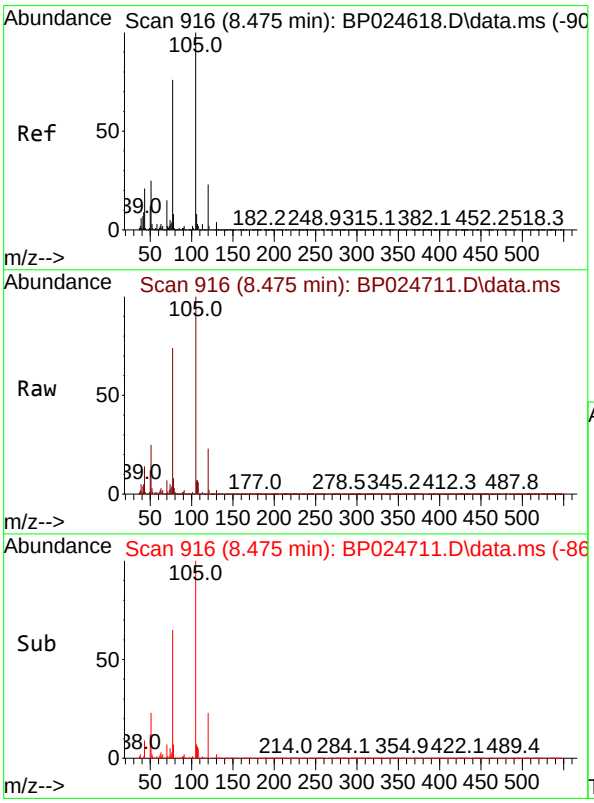
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:136 Resp: 491800

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	6.5	5.5	8.3
68	4.4	4.2	6.2

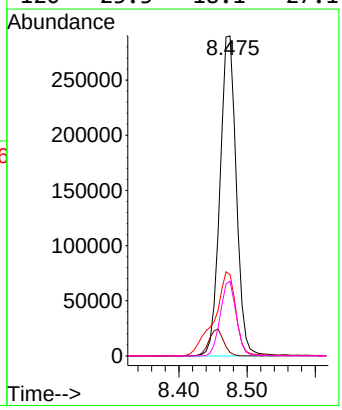


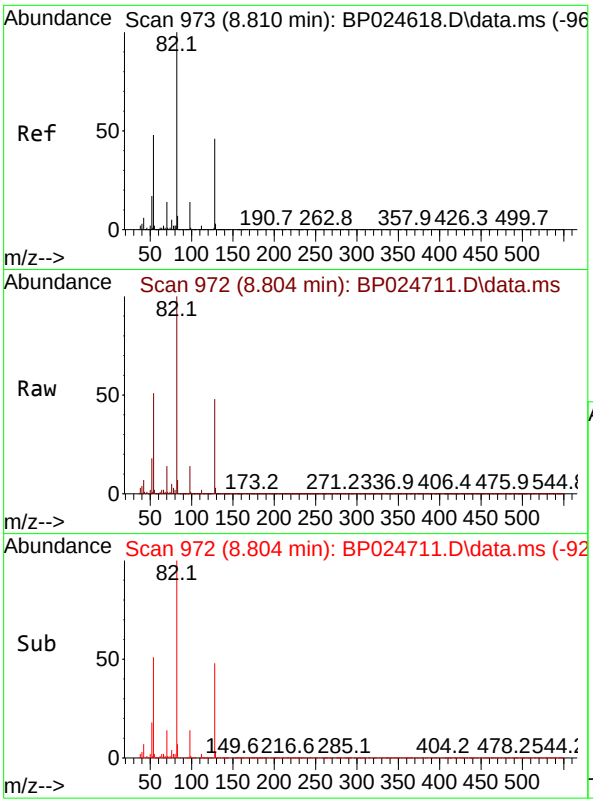


#22
Acetophenone
Concen: 39.456 ng
RT: 8.475 min Scan# 916
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:105 Resp: 484715

Ion	Ratio	Lower	Upper
105	100		
71	1.1	2.0	3.0#
51	25.4	20.4	30.6
120	23.3	18.1	27.1



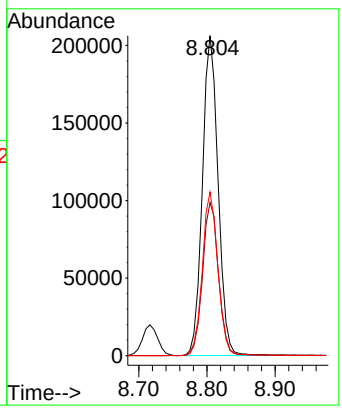


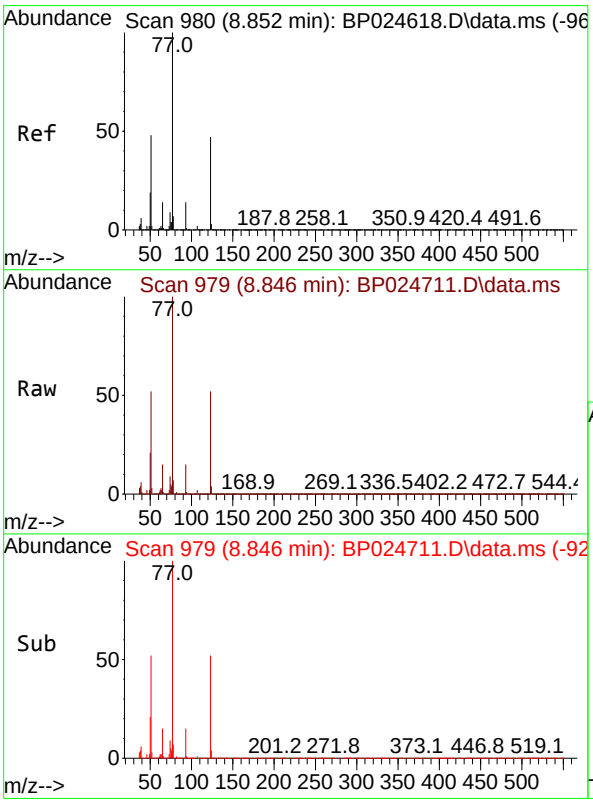
#23
Nitrobenzene-d5
Concen: 33.990 ng
RT: 8.804 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion: 82 Resp: 330842

Ion	Ratio	Lower	Upper
82	100		
128	47.9	37.0	55.4
54	51.1	38.7	58.1

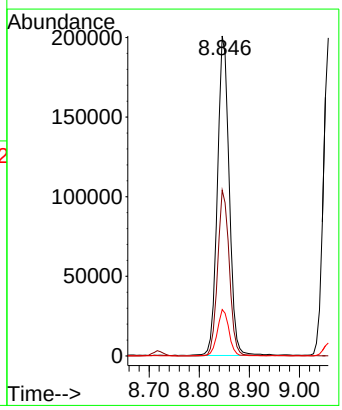


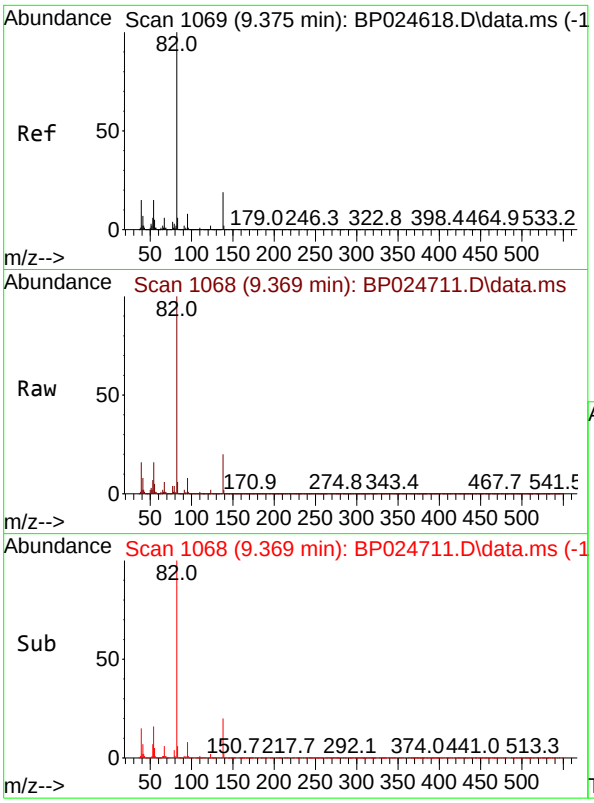


#24
Nitrobenzene
Concen: 38.196 ng
RT: 8.846 min Scan# 979
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion: 77 Resp: 327174

Ion	Ratio	Lower	Upper
77	100		
123	51.8	37.4	56.0
65	14.5	11.3	16.9



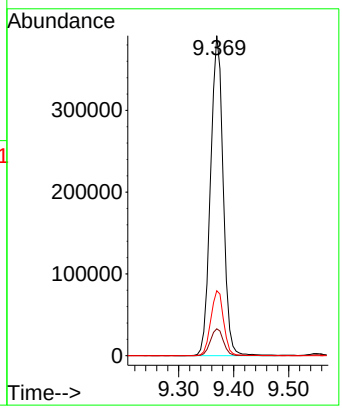


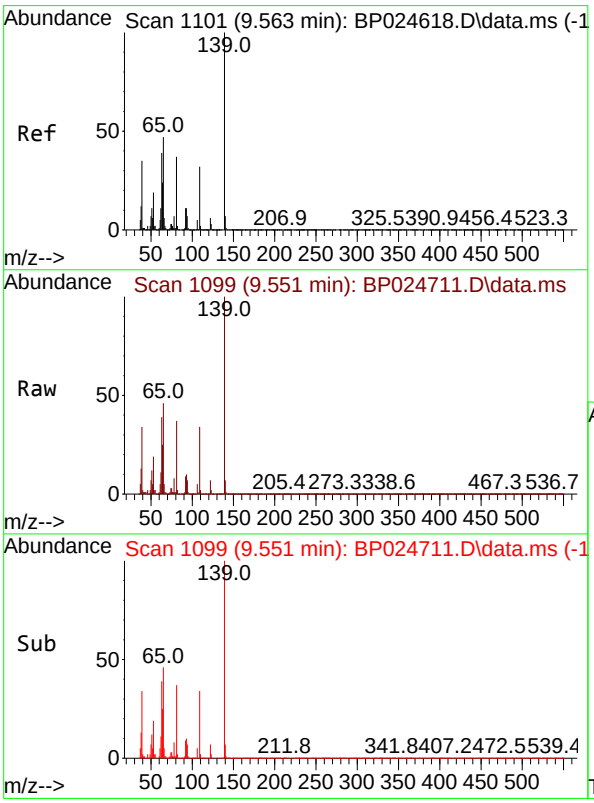
#25
Isophorone
Concen: 36.990 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion: 82 Resp: 624540

Ion	Ratio	Lower	Upper
82	100		
95	8.4	6.3	9.5
138	20.3	15.3	22.9

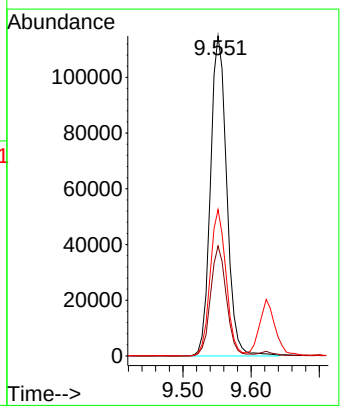


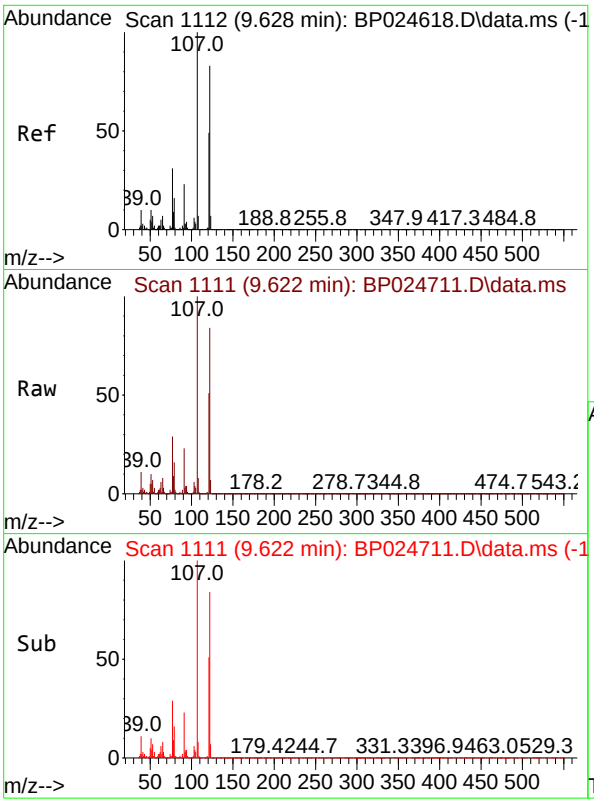


#26
2-Nitrophenol
Concen: 45.417 ng
RT: 9.551 min Scan# 1099
Delta R.T. -0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:139 Resp: 190629

Ion	Ratio	Lower	Upper
139	100		
109	34.3	25.9	38.9
65	45.8	37.9	56.9



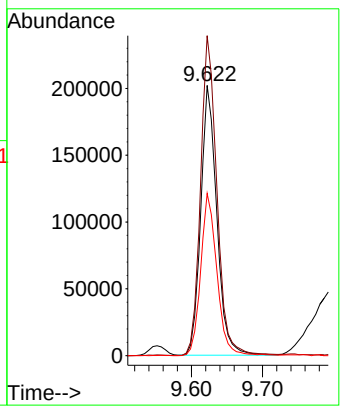


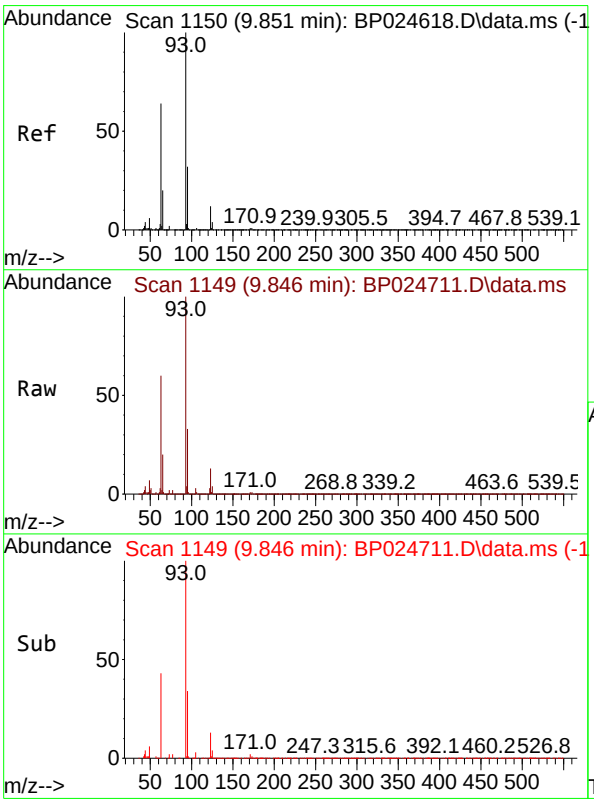
#27
2,4-Dimethylphenol
Concen: 43.013 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:122 Resp: 318305

Ion	Ratio	Lower	Upper
122	100		
107	118.4	96.2	144.2
121	60.0	47.6	71.4

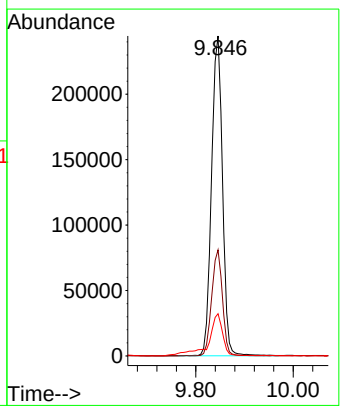


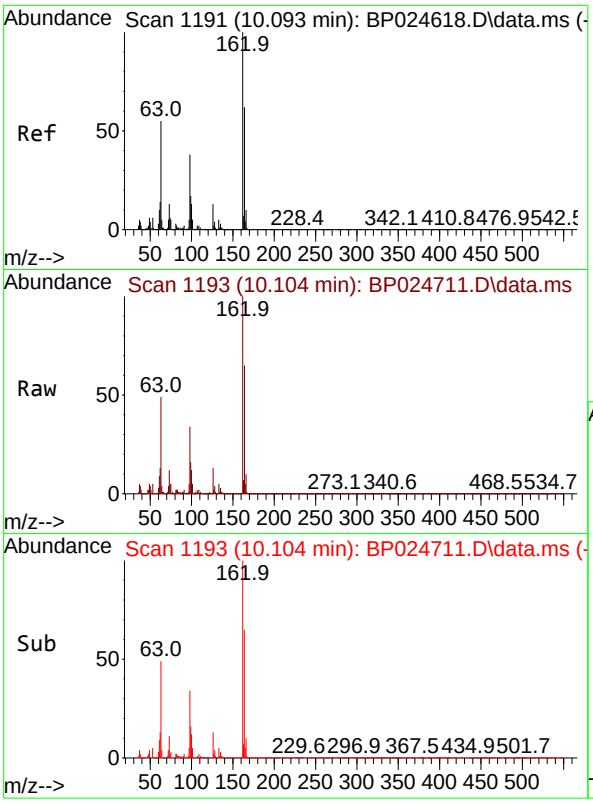


#28
bis(2-Chloroethoxy)methane
Concen: 37.716 ng
RT: 9.846 min Scan# 1149
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion: 93 Resp: 380446

Ion	Ratio	Lower	Upper
93	100		
95	33.2	25.5	38.3
123	13.2	9.7	14.5



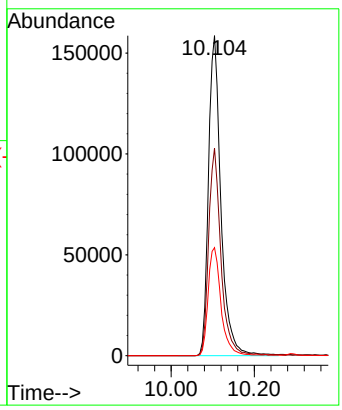


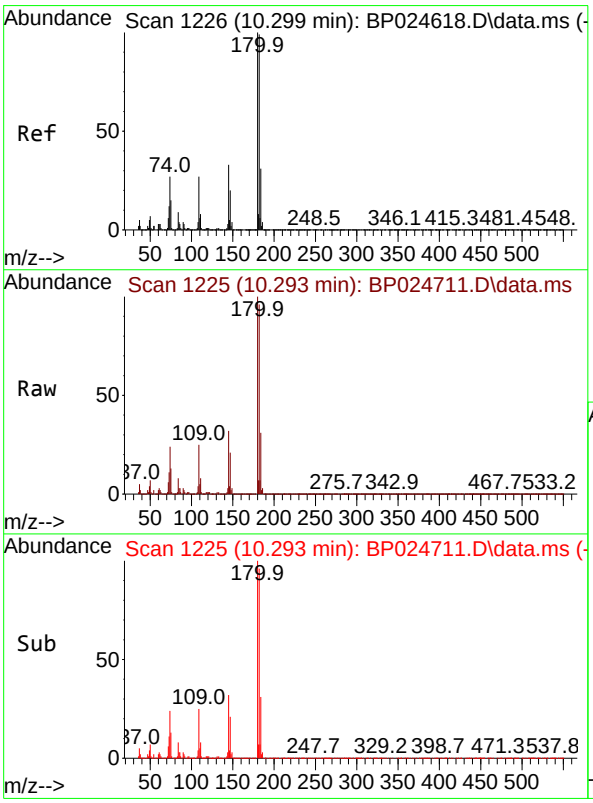
#29
2,4-Dichlorophenol
Concen: 46.006 ng
RT: 10.104 min Scan# 11
Delta R.T. 0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:162 Resp: 329917

Ion	Ratio	Lower	Upper
162	100		
164	64.9	42.3	82.3
98	33.7	18.4	58.4

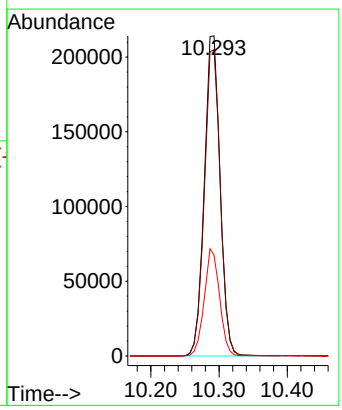


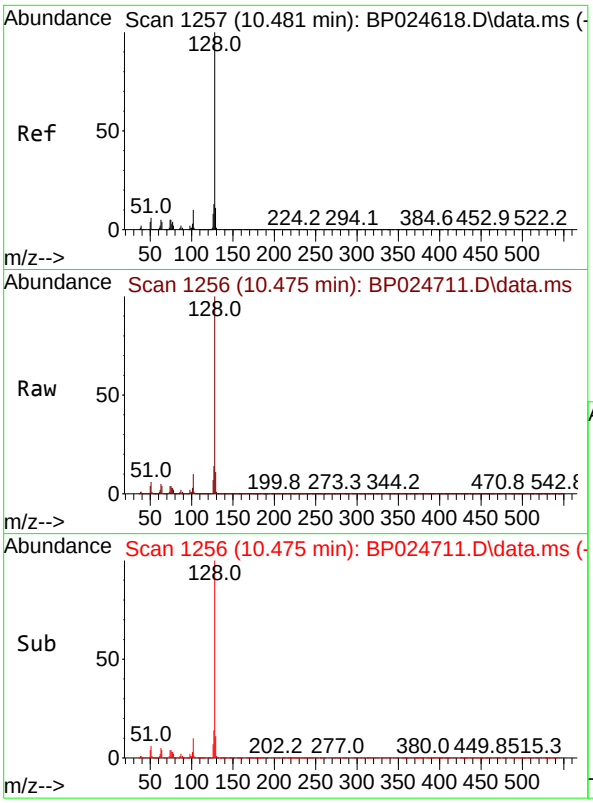


#30
1,2,4-Trichlorobenzene
Concen: 42.866 ng
RT: 10.293 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:180 Resp: 346405

Ion	Ratio	Lower	Upper
180	100		
182	95.7	79.0	118.4
145	31.5	26.6	39.8



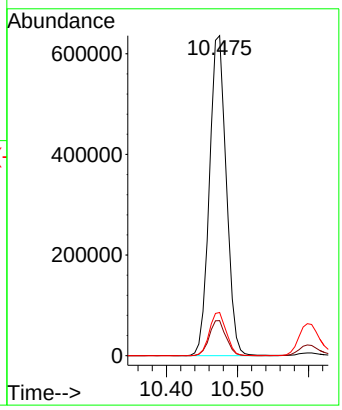


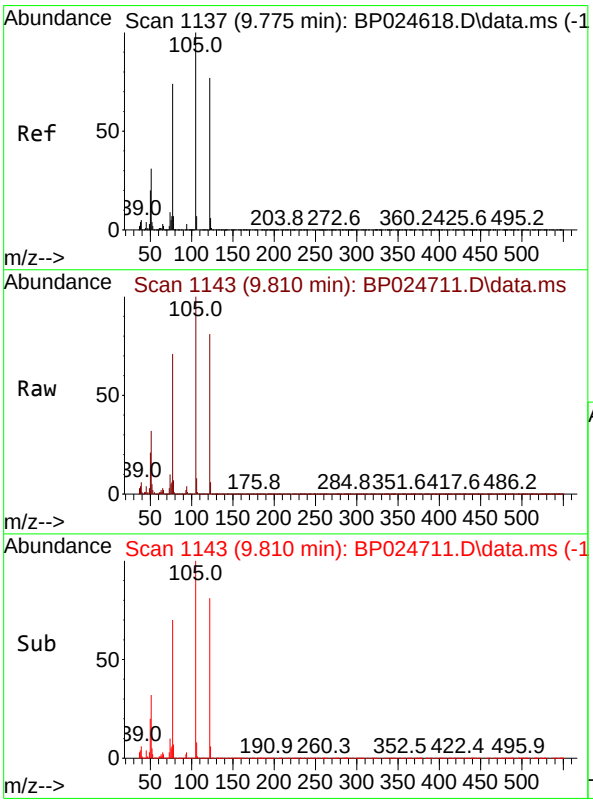
#31
Naphthalene
Concen: 41.043 ng
RT: 10.475 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:128 Resp: 1046009

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.5	10.7	16.1

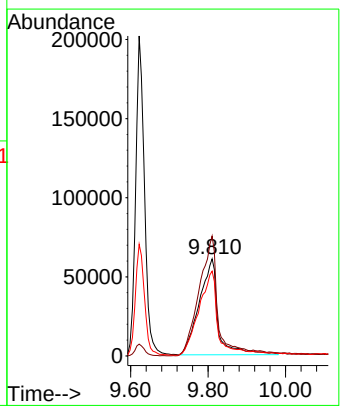


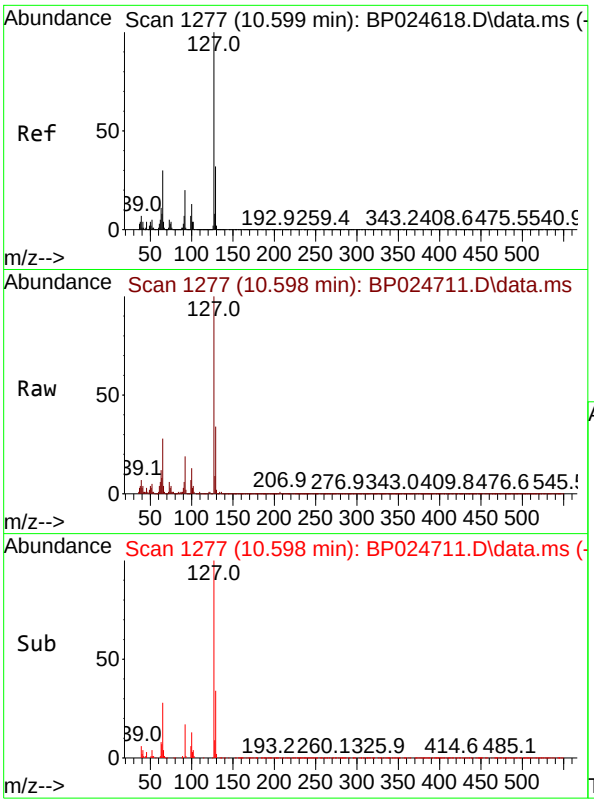


#32
Benzoic acid
Concen: 40.996 ng
RT: 9.810 min Scan# 1143
Delta R.T. 0.035 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:122 Resp: 204555

Ion	Ratio	Lower	Upper
122	100		
105	123.5	106.9	146.9
77	87.2	75.1	115.1



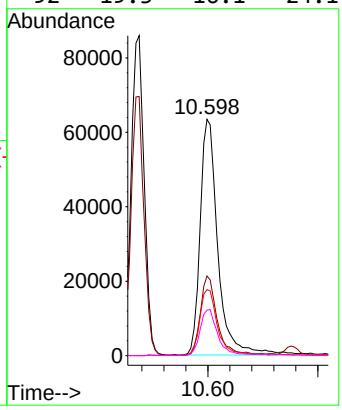


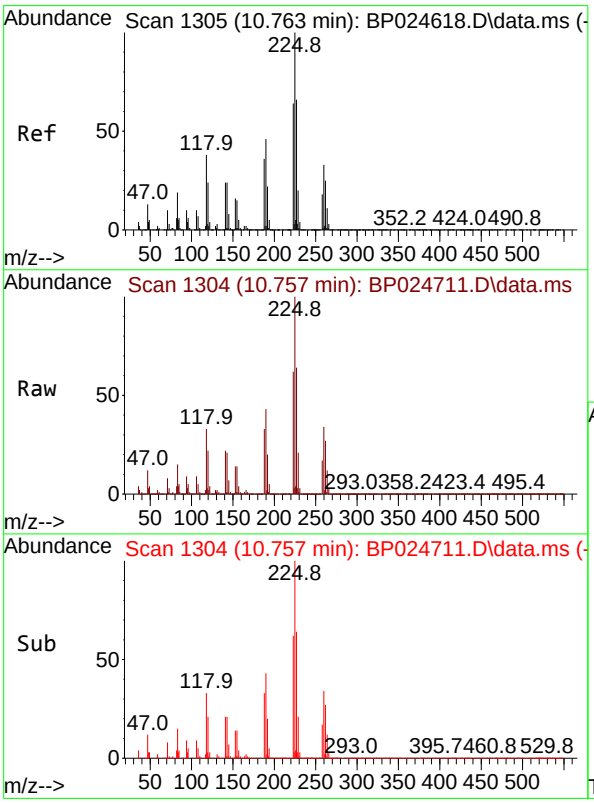
#33
4-Chloroaniline
Concen: 13.708 ng
RT: 10.598 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:127 Resp: 140978

Ion	Ratio	Lower	Upper
127	100		
129	33.7	25.8	38.6
65	28.0	23.9	35.9
92	19.3	16.1	24.1

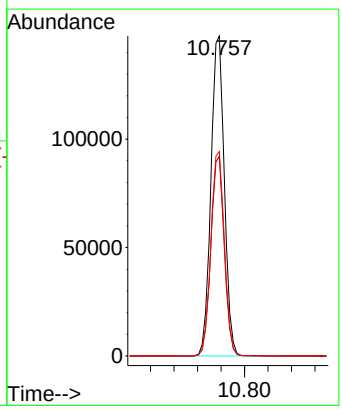


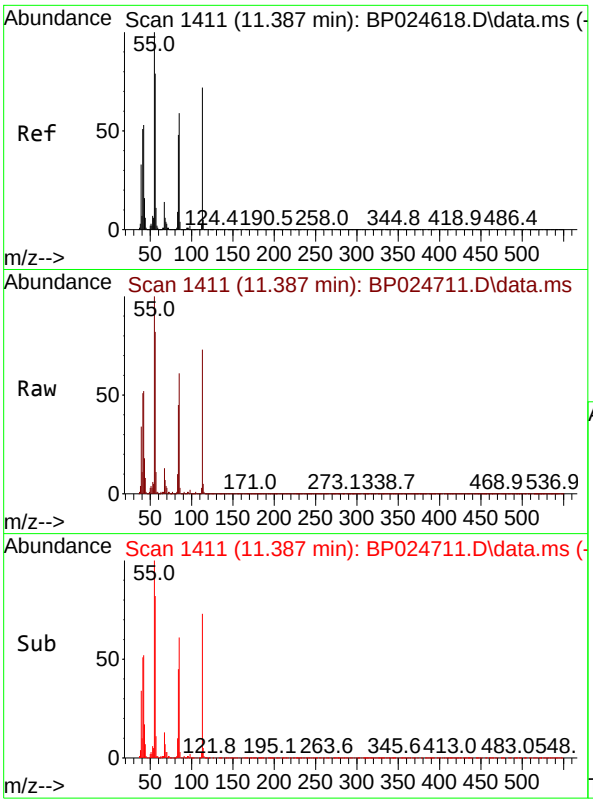


#34
Hexachlorobutadiene
Concen: 44.553 ng
RT: 10.757 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:225 Resp: 233237

Ion	Ratio	Lower	Upper
225	100		
223	62.4	51.0	76.6
227	63.9	53.1	79.7



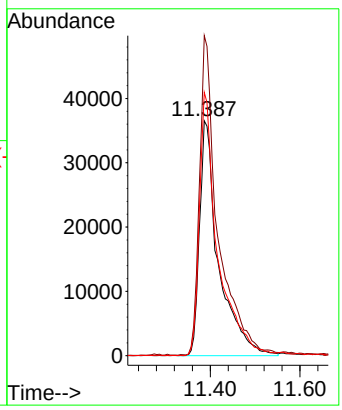


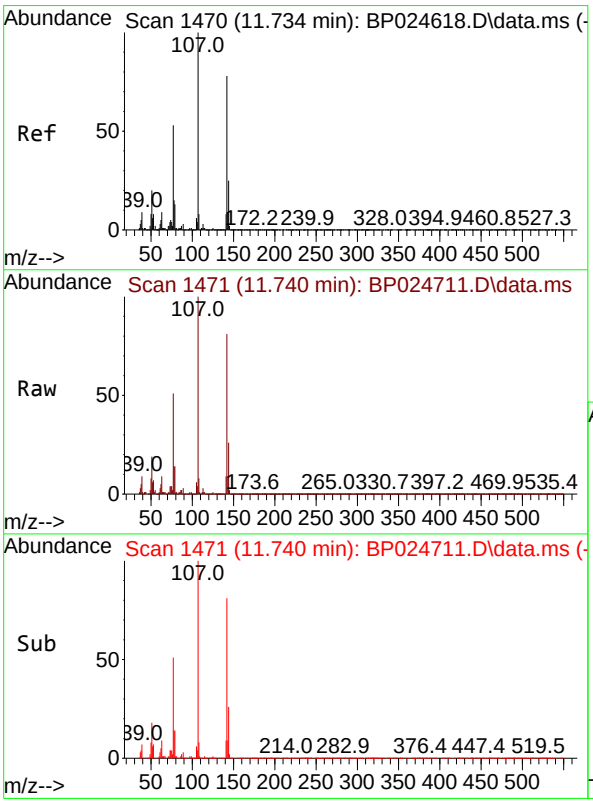
#35
Caprolactam
Concen: 41.198 ng
RT: 11.387 min Scan# 14
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:113 Resp: 106892

Ion	Ratio	Lower	Upper
113	100		
55	136.2	119.0	159.0
56	112.2	90.3	130.3

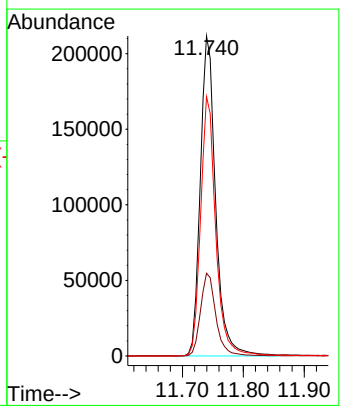


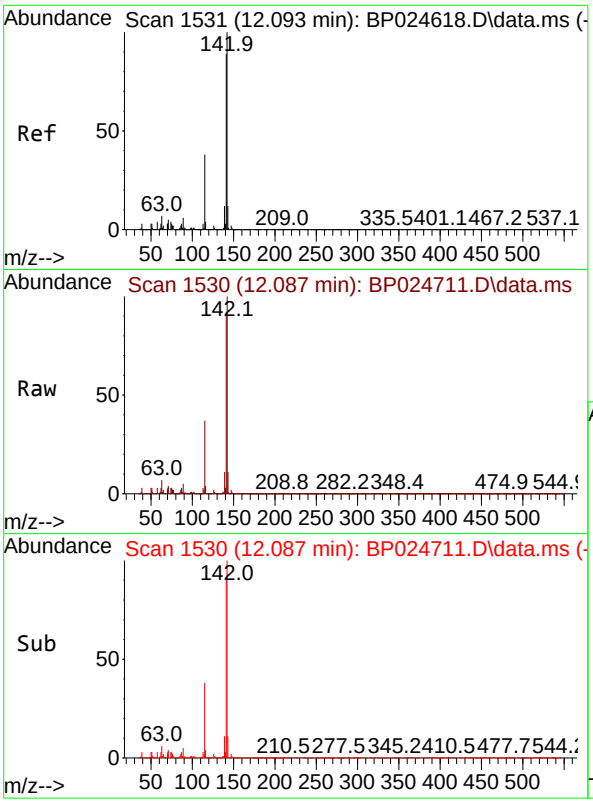


#36
4-Chloro-3-methylphenol
Concen: 42.469 ng
RT: 11.740 min Scan# 1471
Delta R.T. 0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:107 Resp: 371404

Ion	Ratio	Lower	Upper
107	100		
144	25.8	20.1	30.1
142	81.1	62.1	93.1



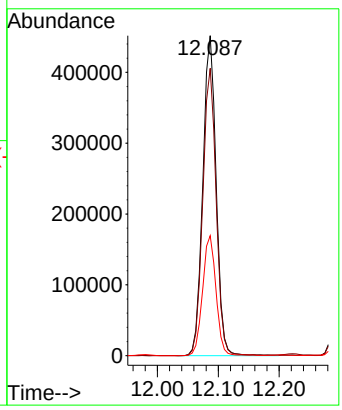


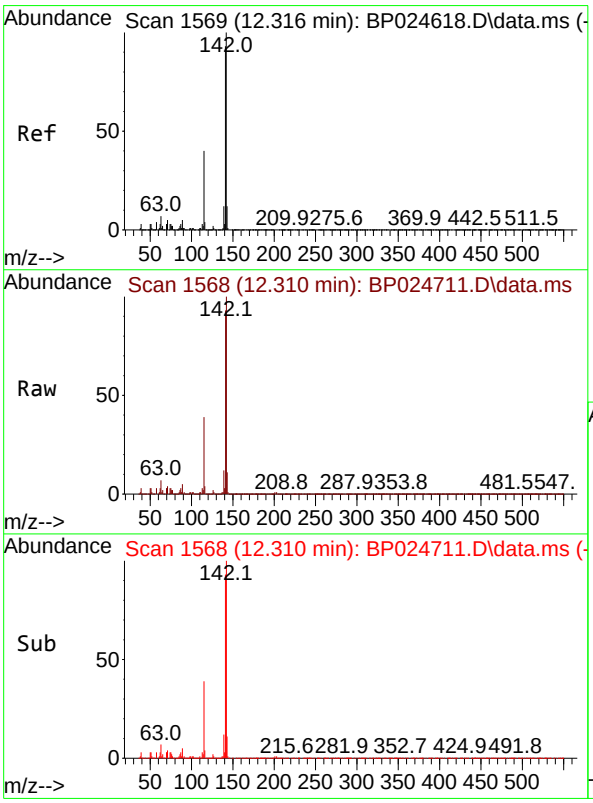
#37
2-Methylnaphthalene
Concen: 41.633 ng
RT: 12.087 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:142 Resp: 687037

Ion	Ratio	Lower	Upper
142	100		
141	89.8	71.2	106.8
115	37.5	30.6	46.0

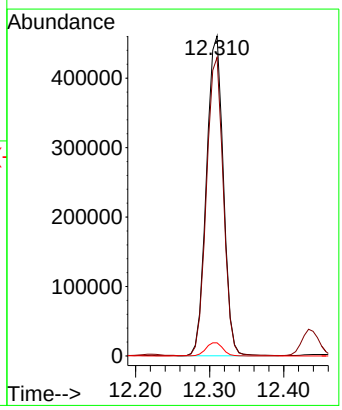


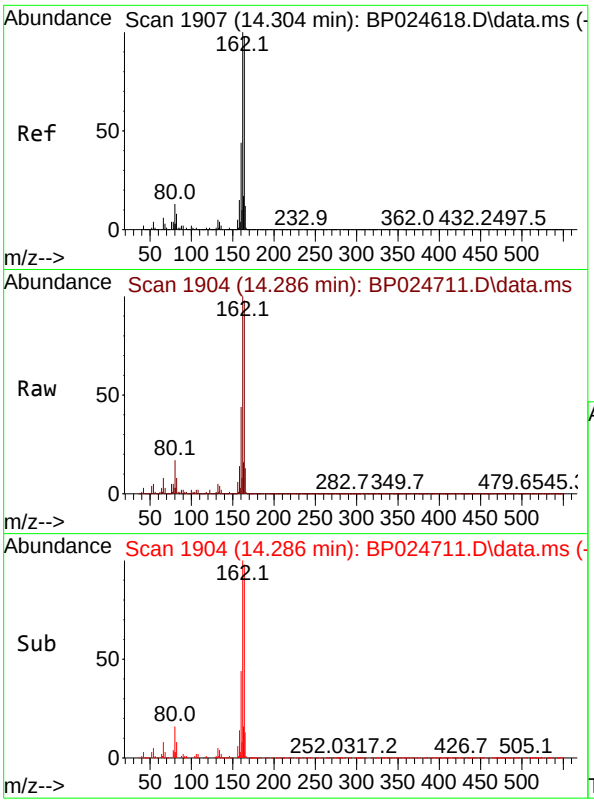


#38
1-Methylnaphthalene
Concen: 41.281 ng
RT: 12.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:142 Resp: 728884

Ion	Ratio	Lower	Upper
142	100		
141	93.3	74.7	112.1
116	4.1	3.4	5.2



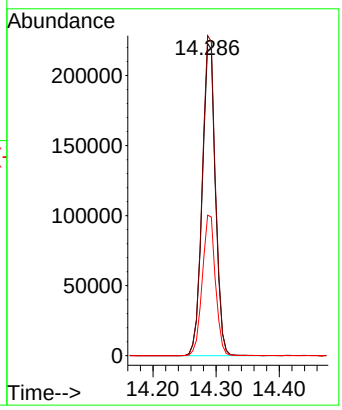


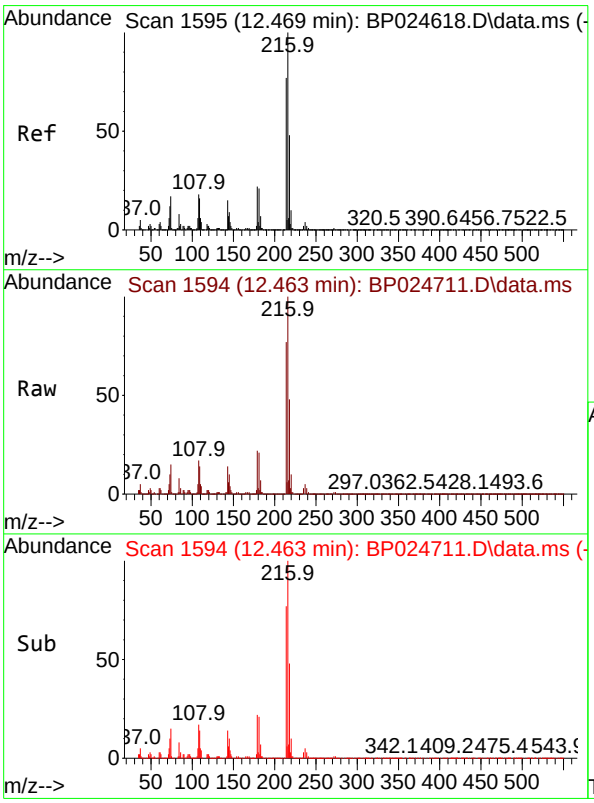
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.286 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:164 Resp: 320946

Ion	Ratio	Lower	Upper
164	100		
162	102.6	81.8	122.6
160	45.0	36.3	54.5

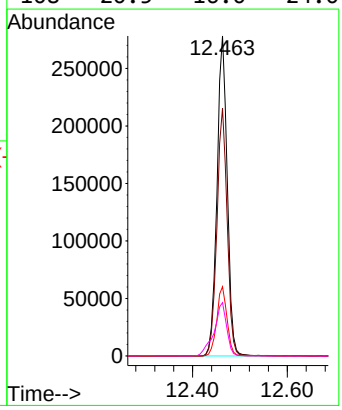


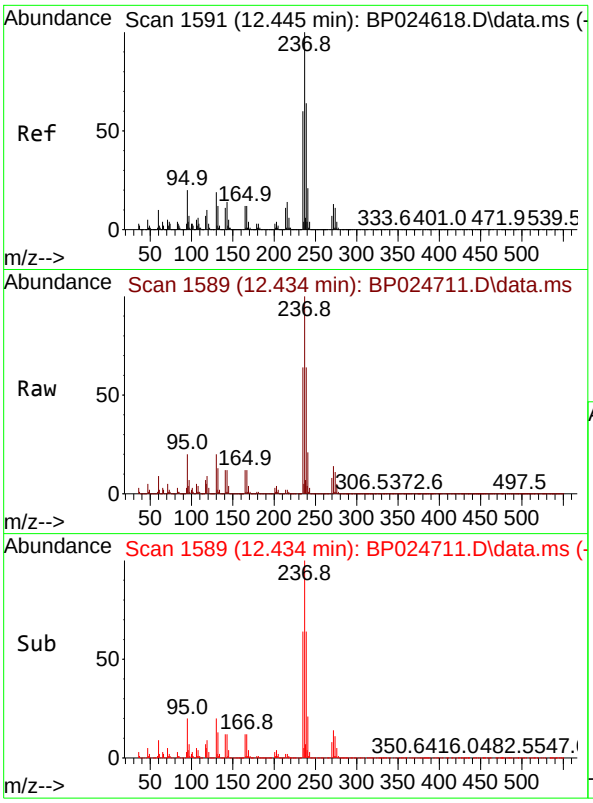


#40
1,2,4,5-Tetrachlorobenzene
Concen: 44.715 ng
RT: 12.463 min Scan# 1594
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:216 Resp: 416739

Ion	Ratio	Lower	Upper
216	100		
214	77.4	62.3	93.5
179	21.7	17.7	26.5
108	20.5	16.0	24.0



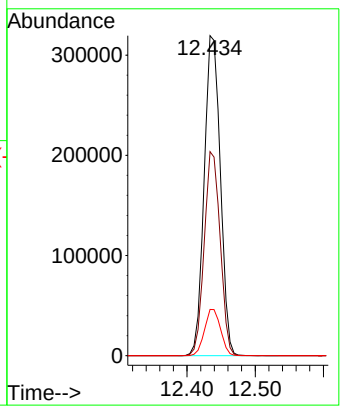


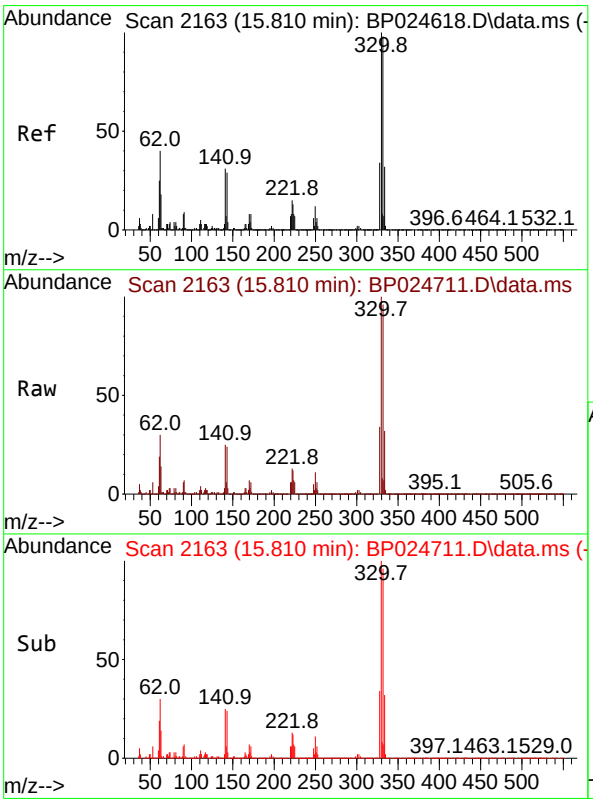
#41
Hexachlorocyclopentadiene
Concen: 93.212 ng
RT: 12.434 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:237 Resp: 526765

Ion	Ratio	Lower	Upper
237	100		
235	63.8	39.9	79.9
272	14.5	0.0	33.2

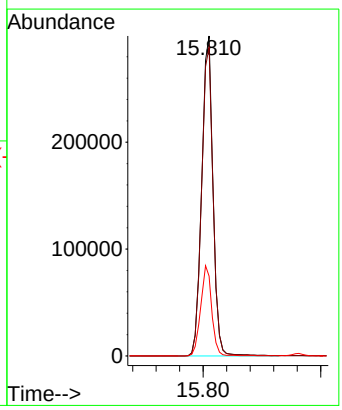


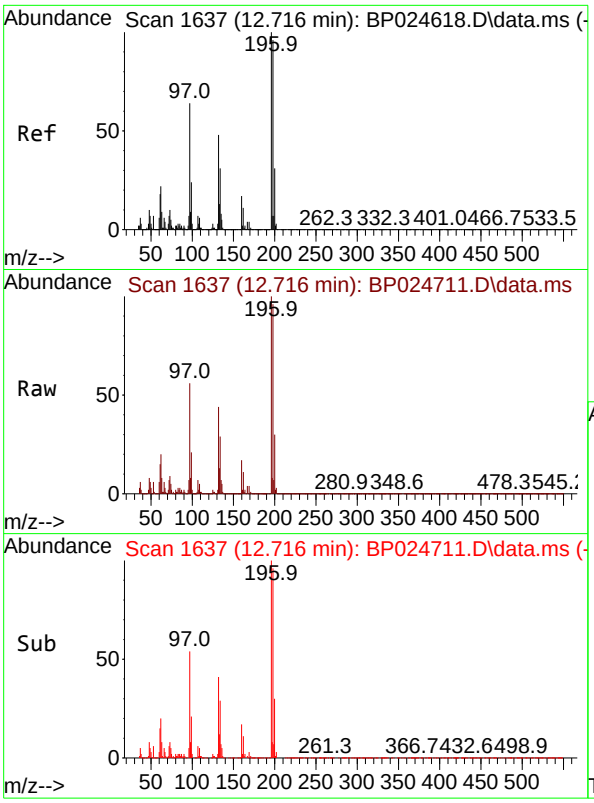


#42
2,4,6-Tribromophenol
Concen: 73.293 ng
RT: 15.810 min Scan# 2163
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:330 Resp: 398787

Ion	Ratio	Lower	Upper
330	100		
332	98.0	78.2	117.4
141	27.8	24.3	36.5



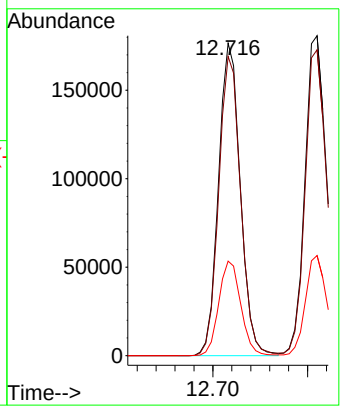


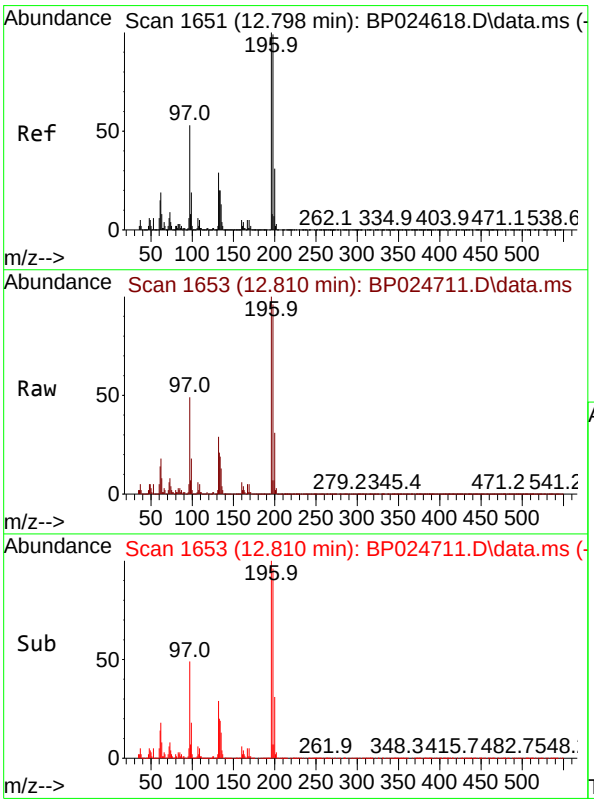
#43
2,4,6-Trichlorophenol
Concen: 46.847 ng
RT: 12.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:196 Resp: 282795

Ion	Ratio	Lower	Upper
196	100		
198	95.8	76.9	115.3
200	30.3	25.2	37.8

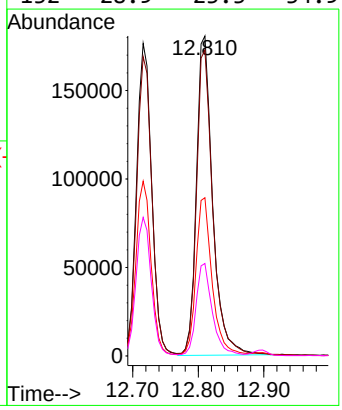


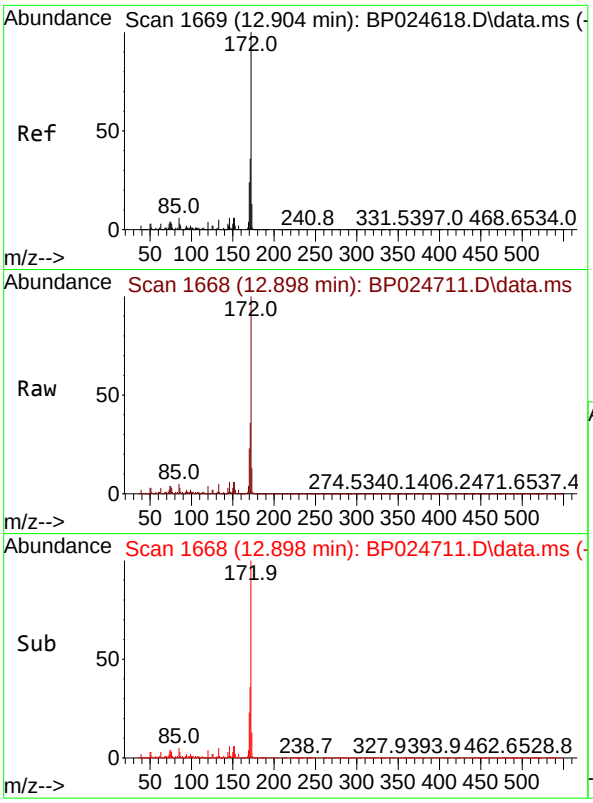


#44
2,4,5-Trichlorophenol
Concen: 46.421 ng
RT: 12.810 min Scan# 1653
Delta R.T. 0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:196 Resp: 311927

Ion	Ratio	Lower	Upper
196	100		
198	95.6	79.2	118.8
97	49.5	42.3	63.5
132	28.9	23.3	34.9



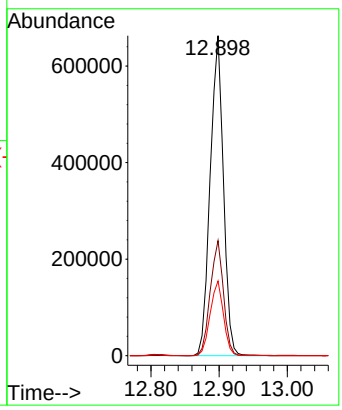


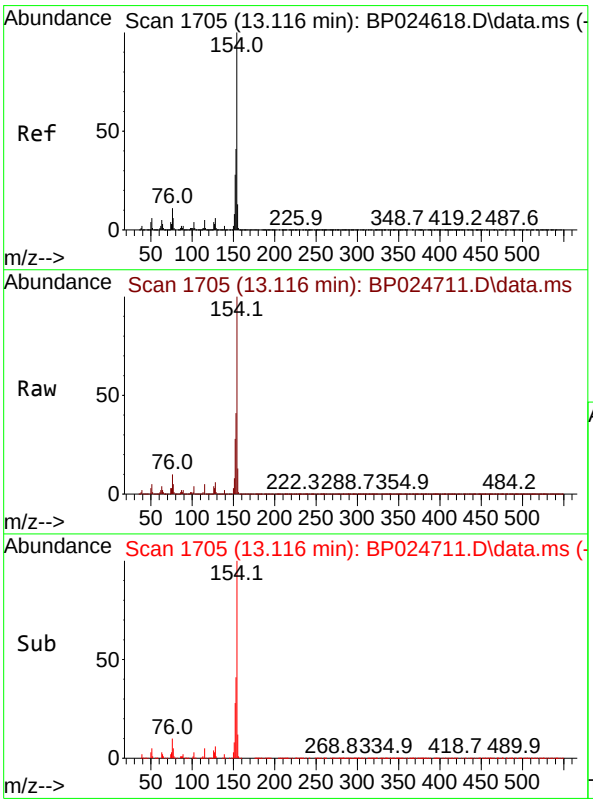
#45
2-Fluorobiphenyl
Concen: 36.581 ng
RT: 12.898 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:172 Resp: 896144

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.4	18.8	28.2

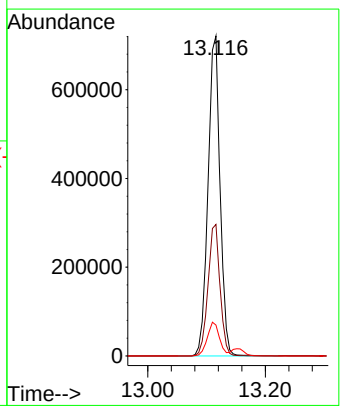


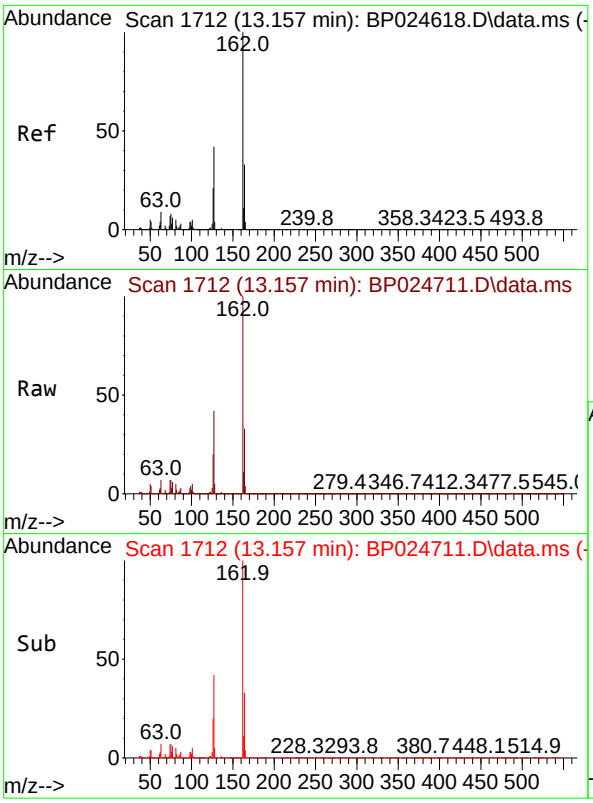


#46
1,1'-Biphenyl
Concen: 43.302 ng
RT: 13.116 min Scan# 1705
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:154 Resp: 1027188

Ion	Ratio	Lower	Upper
154	100		
153	41.1	21.0	61.0
76	9.7	0.0	31.5



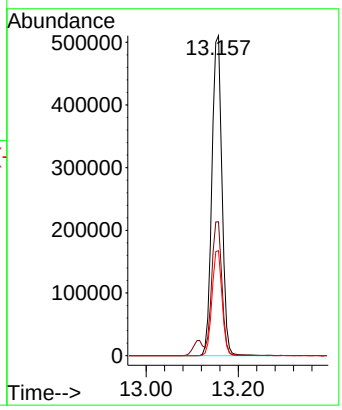


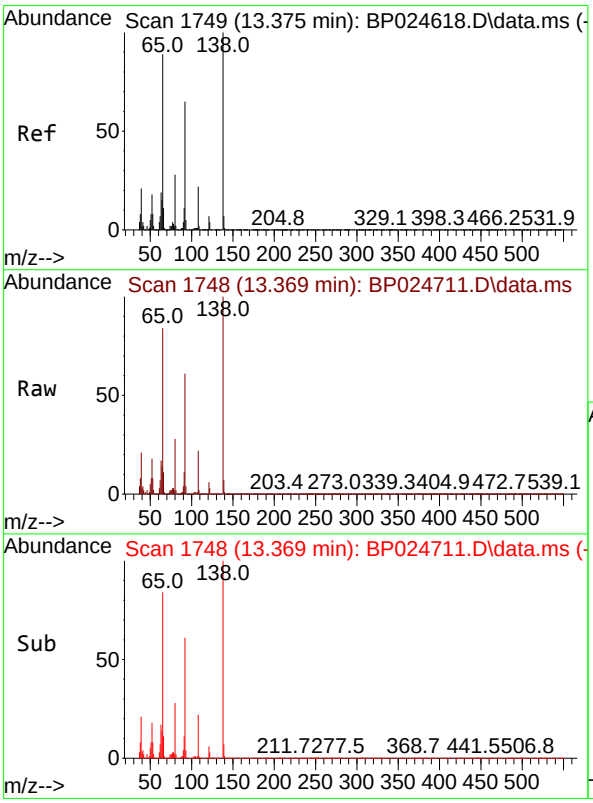
#47
2-Chloronaphthalene
Concen: 42.861 ng
RT: 13.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:162 Resp: 775224

Ion	Ratio	Lower	Upper
162	100		
127	41.9	33.8	50.6
164	32.8	26.0	39.0

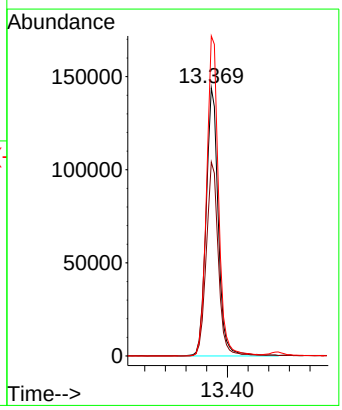


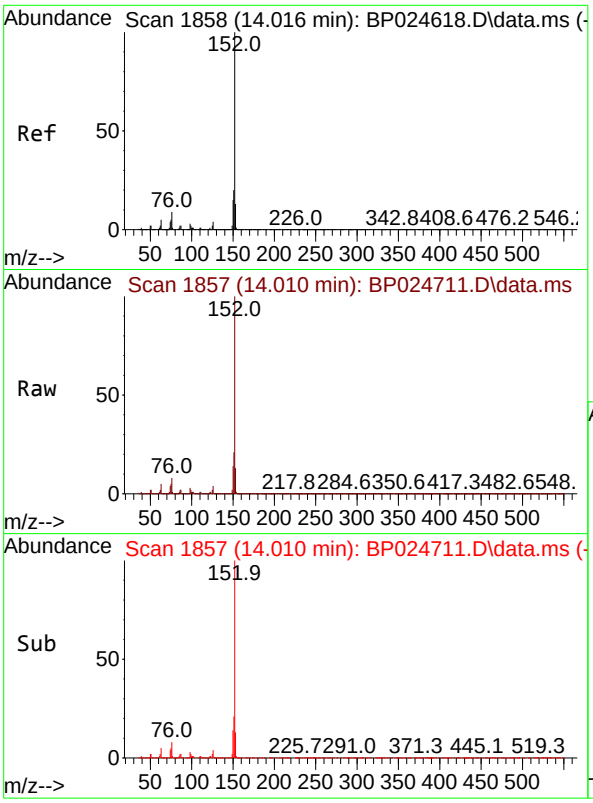


#48
2-Nitroaniline
Concen: 43.818 ng
RT: 13.369 min Scan# 1748
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion: 65 Resp: 234640

Ion	Ratio	Lower	Upper
65	100		
92	72.3	58.7	88.1
138	119.4	90.2	135.2



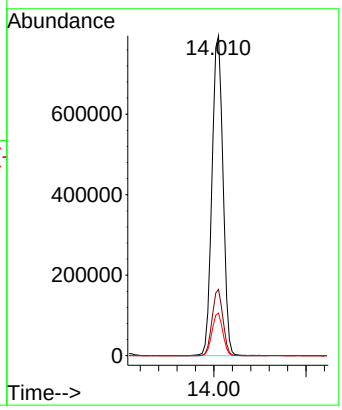


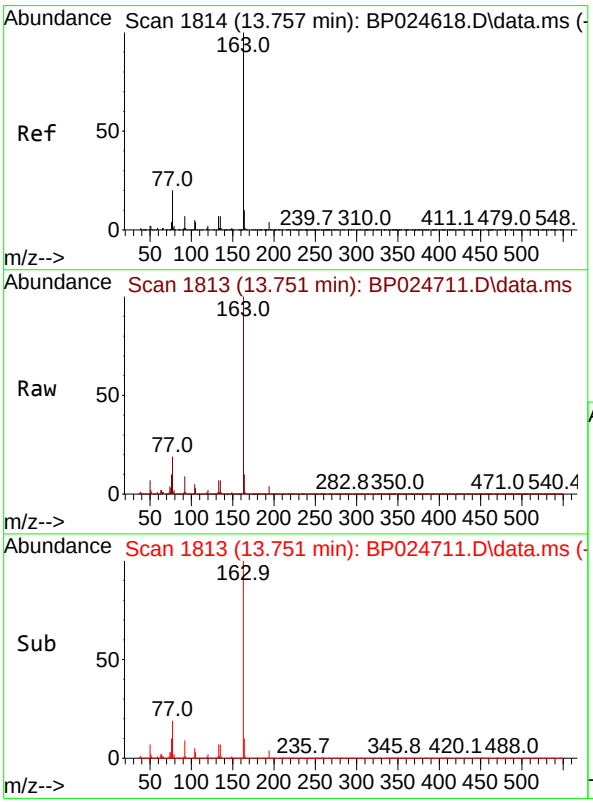
#49
Acenaphthylene
Concen: 43.457 ng
RT: 14.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:152 Resp: 1315357

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.2	24.4
153	13.3	10.2	15.4

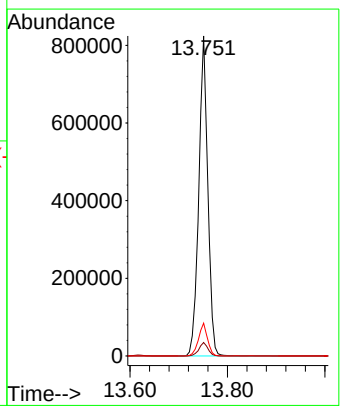


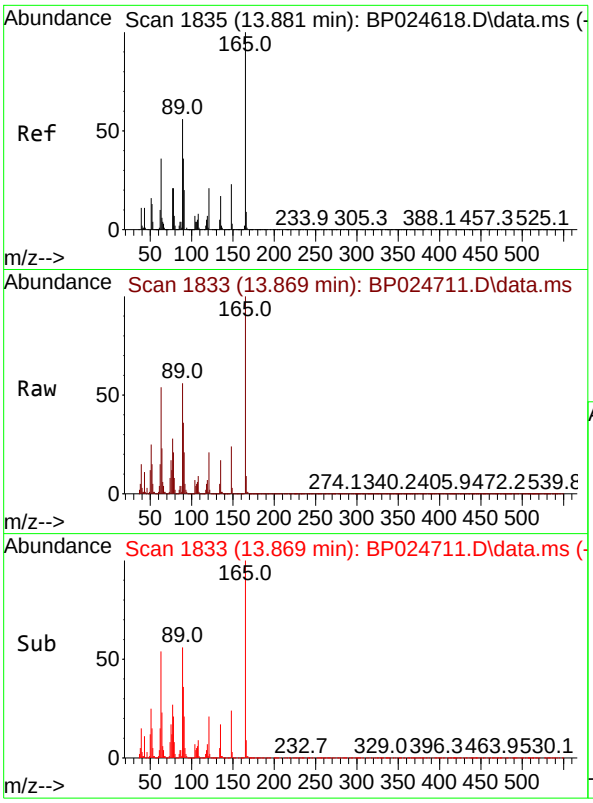


#50
Dimethylphthalate
Concen: 43.496 ng
RT: 13.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:163 Resp: 1064030

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.2	8.1	12.1



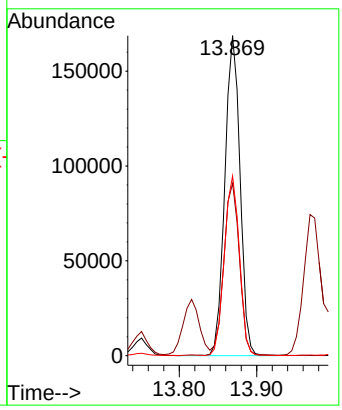


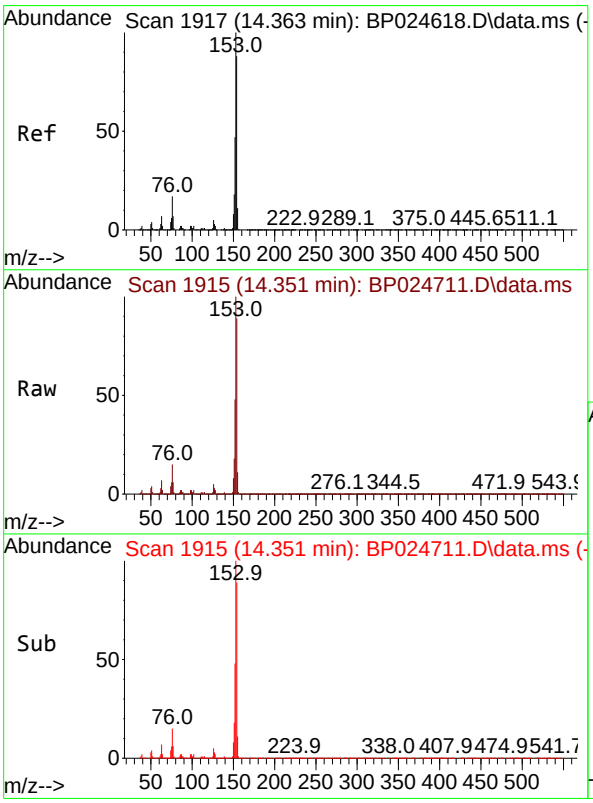
#51
2,6-Dinitrotoluene
Concen: 44.474 ng
RT: 13.869 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:165 Resp: 229768

Ion	Ratio	Lower	Upper
165	100		
63	53.8	42.4	63.6
89	56.2	44.8	67.2

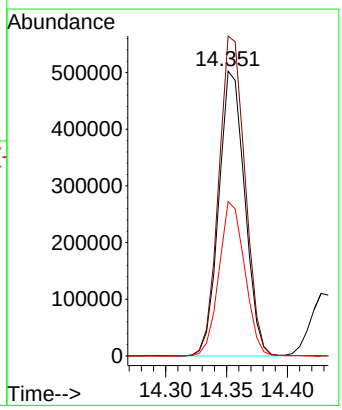


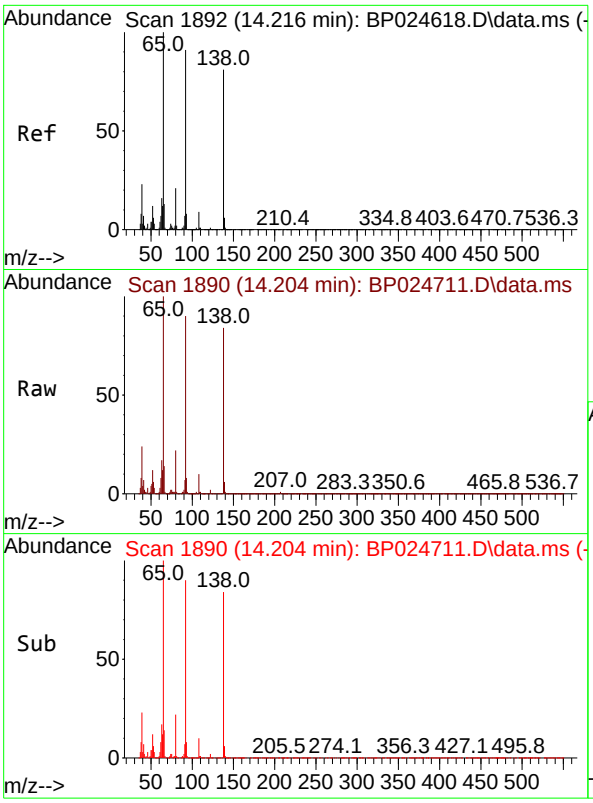


#52
Acenaphthene
Concen: 42.751 ng
RT: 14.351 min Scan# 1915
Delta R.T. -0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:154 Resp: 743892

Ion	Ratio	Lower	Upper
154	100		
153	112.3	91.0	136.4
152	54.2	42.9	64.3



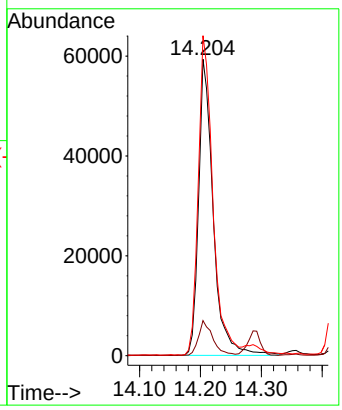


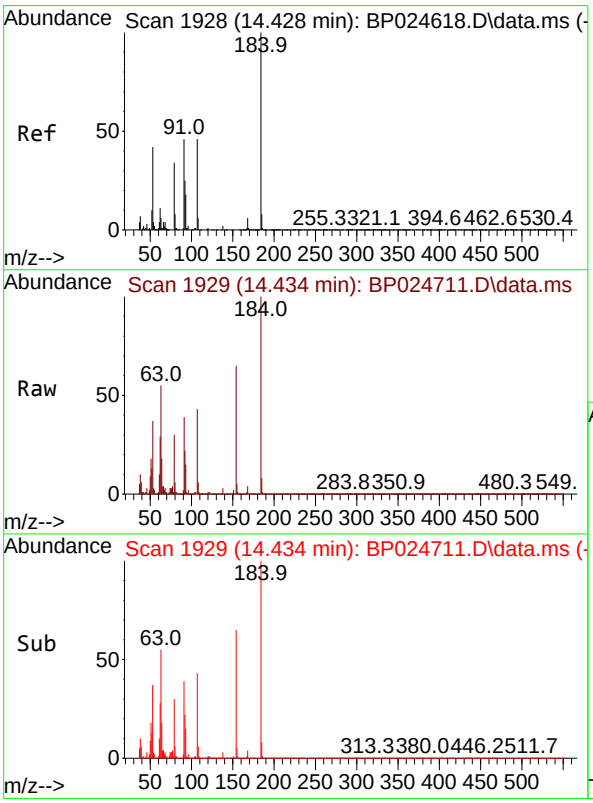
#53
3-Nitroaniline
Concen: 18.840 ng
RT: 14.204 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:138 Resp: 99383

Ion	Ratio	Lower	Upper
138	100		
108	11.8	9.0	13.4
92	107.9	90.1	135.1

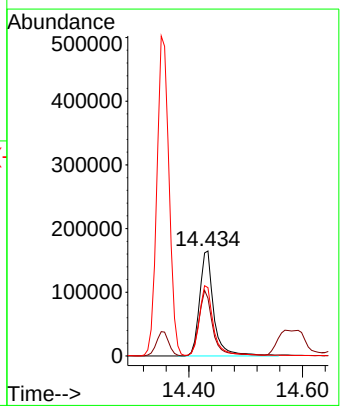


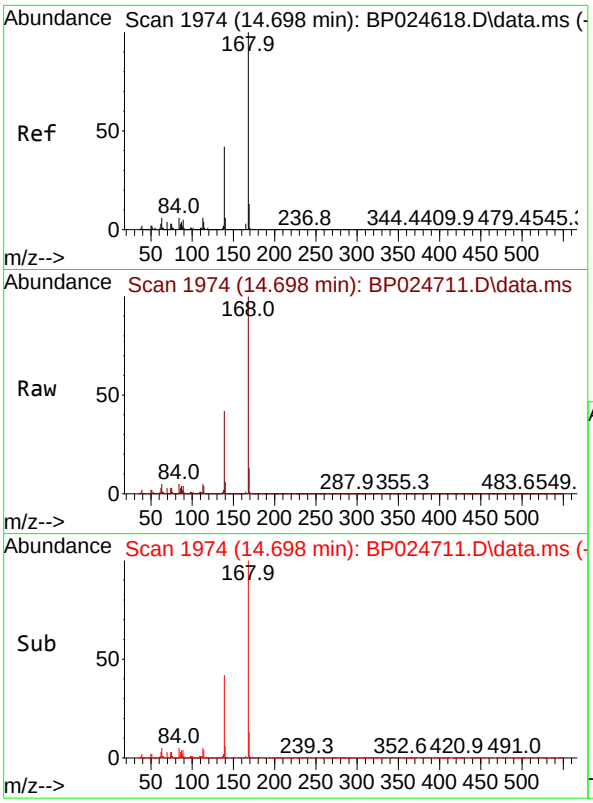


#54
2,4-Dinitrophenol
Concen: 87.045 ng
RT: 14.434 min Scan# 1929
Delta R.T. 0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:184 Resp: 285574

Ion	Ratio	Lower	Upper
184	100		
63	55.0	51.3	76.9
154	65.2	53.5	80.3



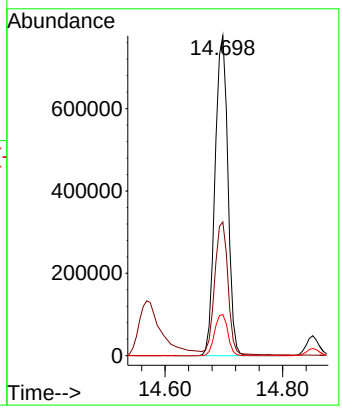


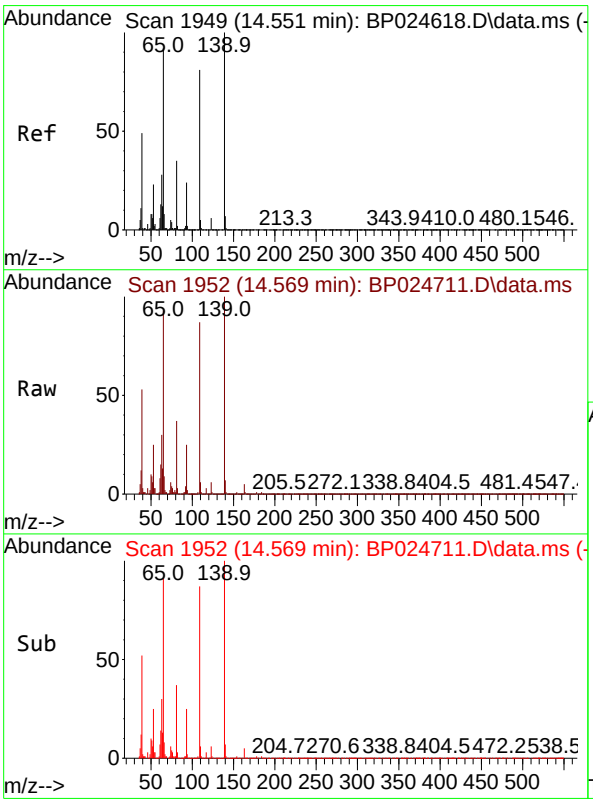
#55
Dibenzofuran
Concen: 42.532 ng
RT: 14.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:168 Resp: 1180487

Ion	Ratio	Lower	Upper
168	100		
139	41.8	34.2	51.4
169	12.9	10.8	16.2

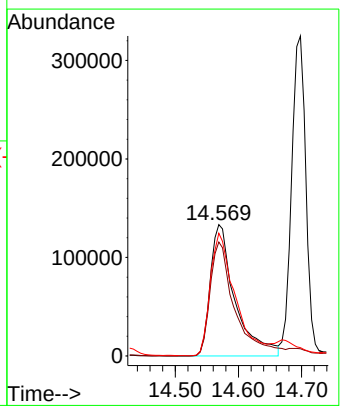


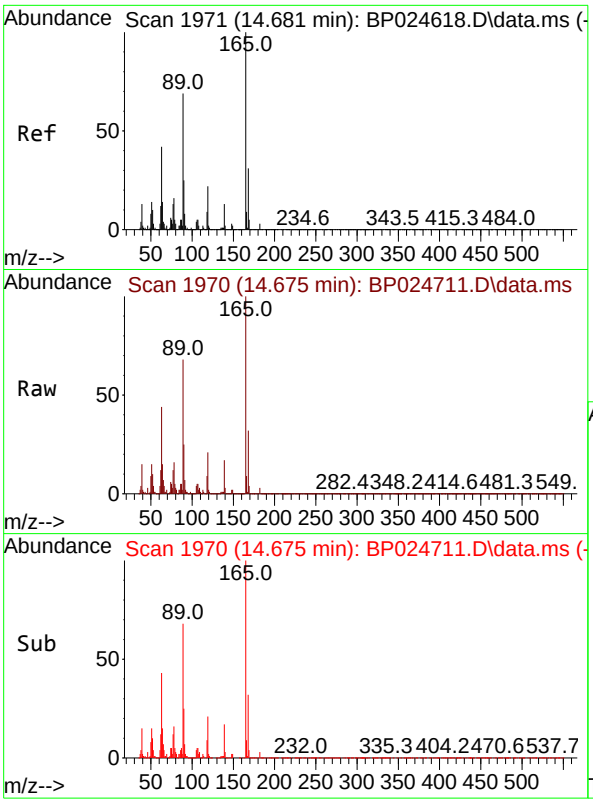


#56
4-Nitrophenol
Concen: 79.362 ng
RT: 14.569 min Scan# 1952
Delta R.T. 0.018 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:139 Resp: 362287

Ion	Ratio	Lower	Upper
139	100		
109	86.8	61.4	101.4
65	93.4	72.2	112.2



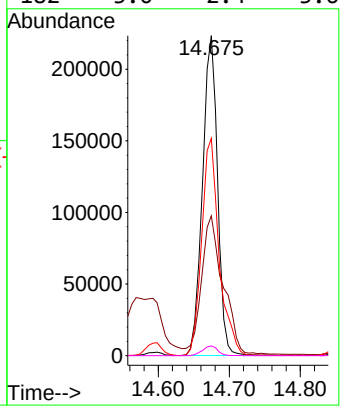


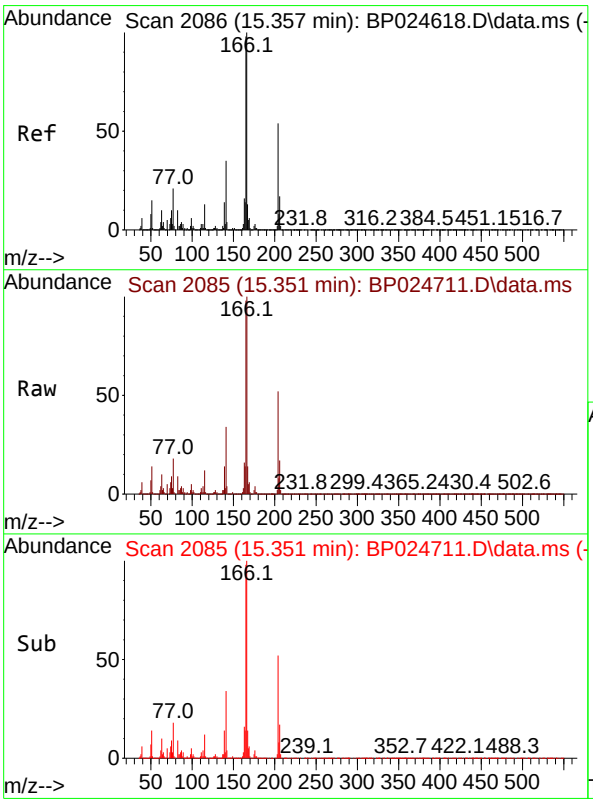
#57
2,4-Dinitrotoluene
Concen: 45.357 ng
RT: 14.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:165 Resp: 330366

Ion	Ratio	Lower	Upper
165	100		
63	43.7	33.8	50.6
89	67.9	55.6	83.4
182	3.0	2.4	3.6

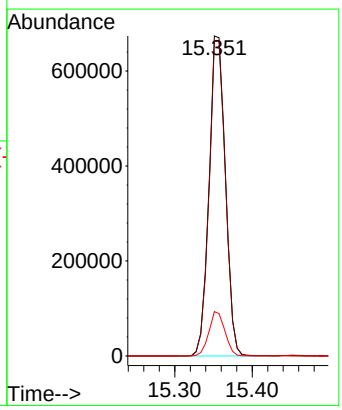


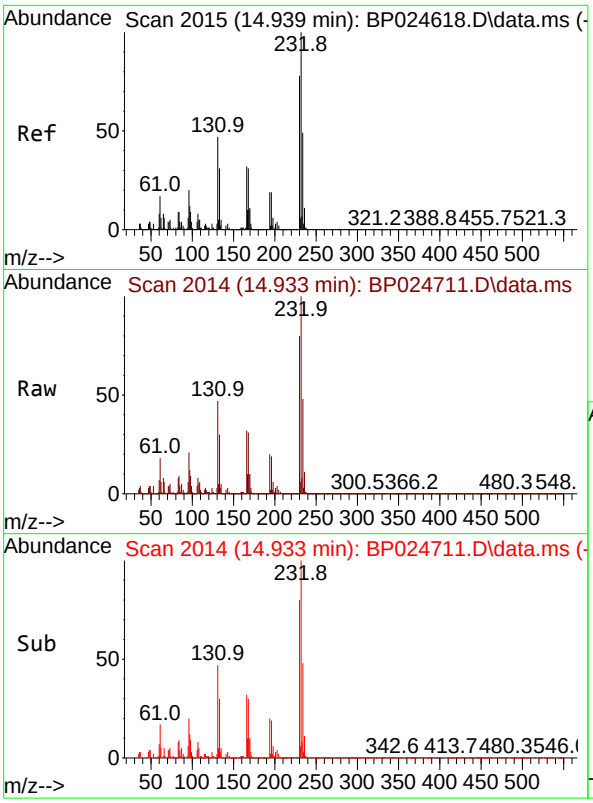


#58
Fluorene
Concen: 43.696 ng
RT: 15.351 min Scan# 2085
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:166 Resp: 988895

Ion	Ratio	Lower	Upper
166	100		
165	98.4	78.5	117.7
167	13.8	10.7	16.1



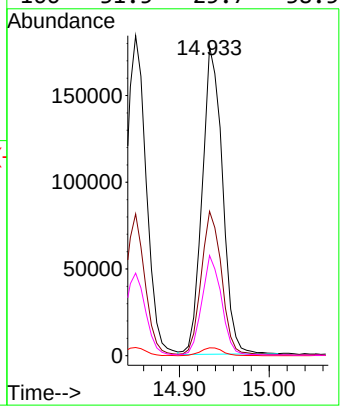


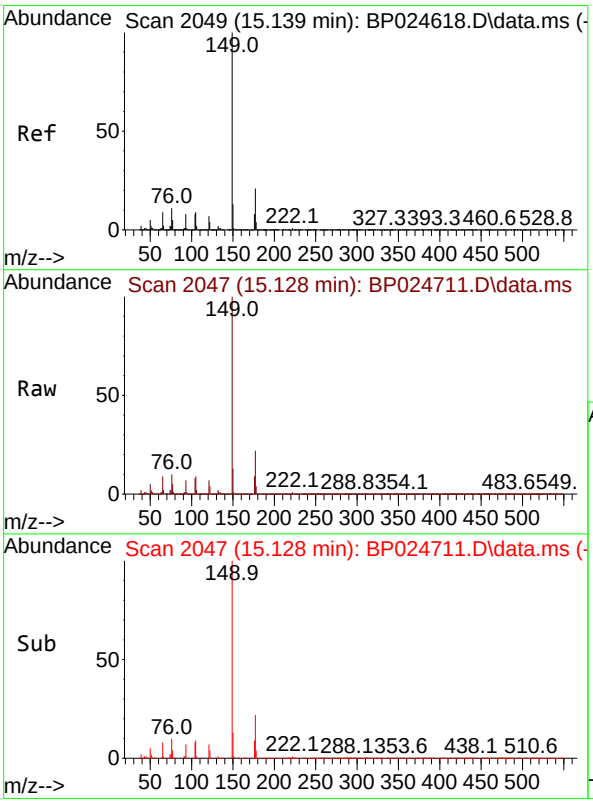
#59
2,3,4,6-Tetrachlorophenol
Concen: 44.770 ng
RT: 14.933 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:232 Resp: 279069

Ion	Ratio	Lower	Upper
232	100		
131	47.4	39.5	59.3
130	2.8	2.2	3.4
166	31.5	25.7	38.5

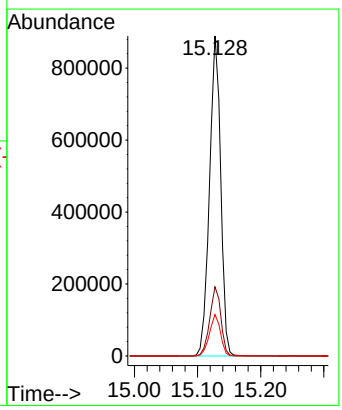


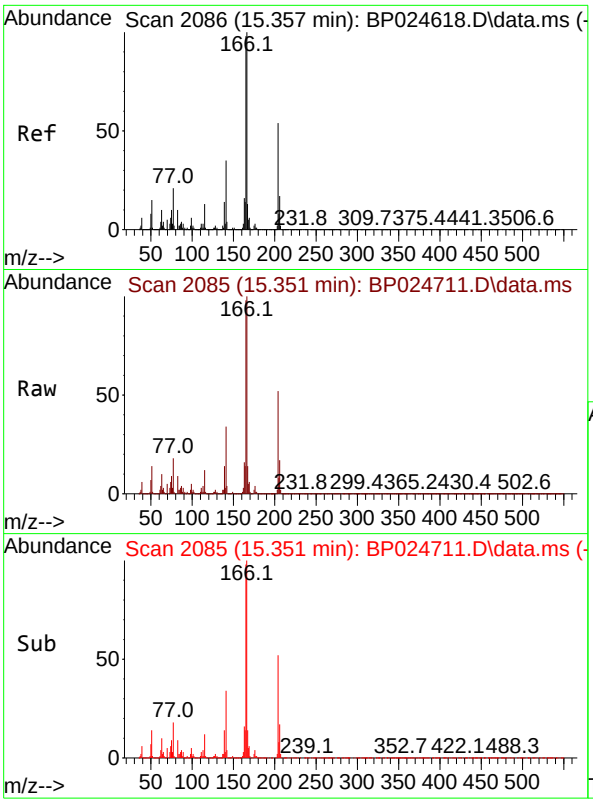


#60
Diethylphthalate
Concen: 44.058 ng
RT: 15.128 min Scan# 2047
Delta R.T. -0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:149 Resp: 1089311

Ion	Ratio	Lower	Upper
149	100		
177	21.6	16.7	25.1
150	12.9	10.2	15.2



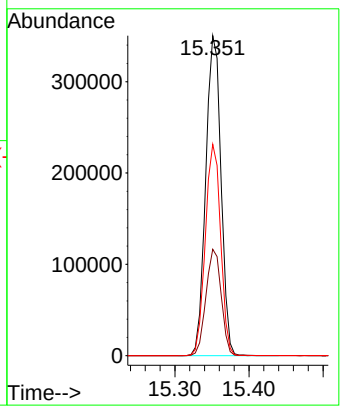


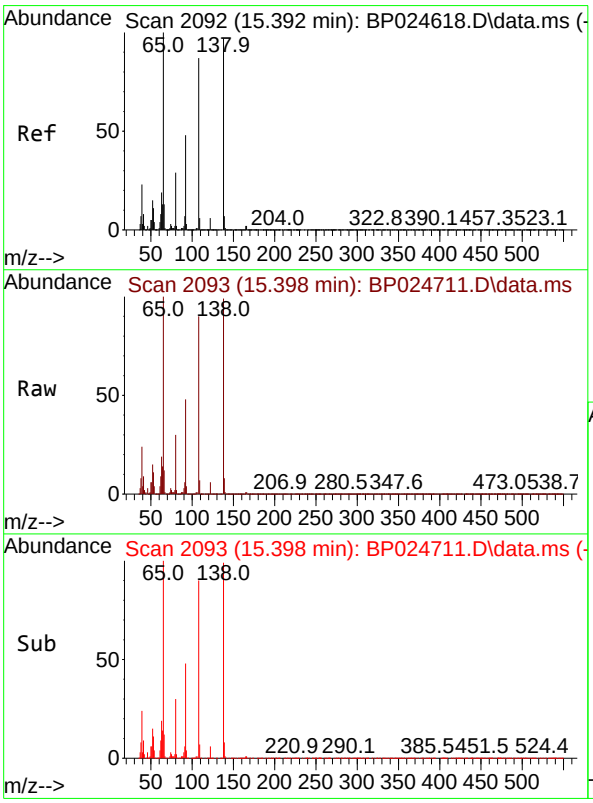
#61
4-Chlorophenyl-phenylether
Concen: 44.403 ng
RT: 15.351 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:204 Resp: 501152

Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.0	39.0
141	66.0	52.9	79.3

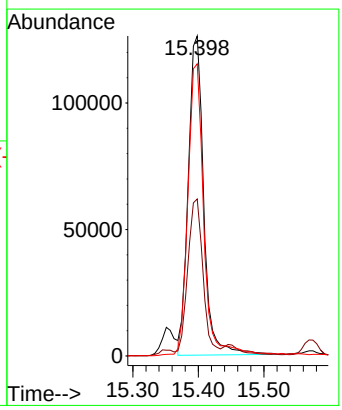


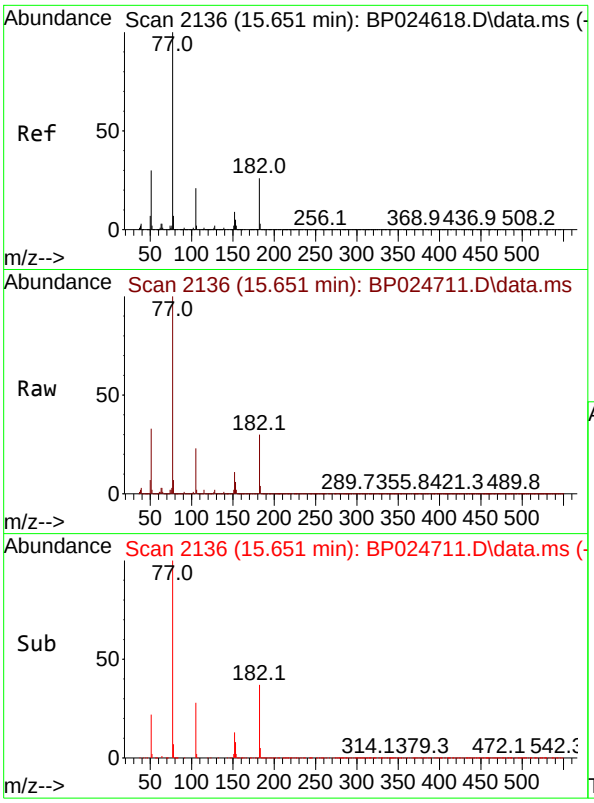


#62
4-Nitroaniline
Concen: 40.652 ng
RT: 15.398 min Scan# 2093
Delta R.T. 0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:138 Resp: 207069

Ion	Ratio	Lower	Upper
138	100		
92	49.1	29.2	69.2
108	91.3	69.0	109.0



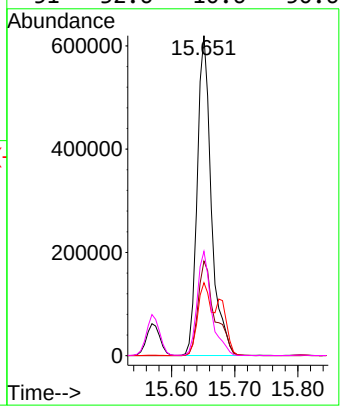


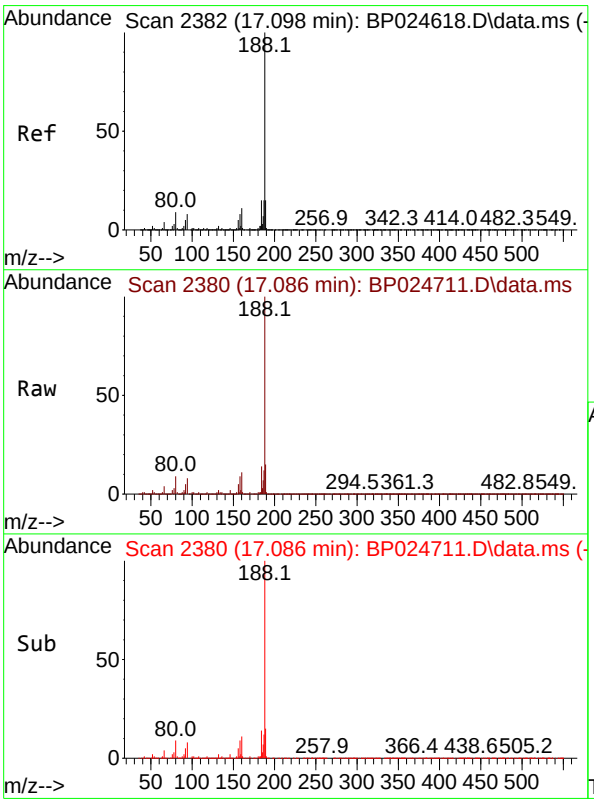
#63
Azobenzene
Concen: 45.318 ng
RT: 15.651 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion: 77 Resp: 958534

Ion	Ratio	Lower	Upper
77	100		
182	29.6	5.7	45.7
105	22.8	1.3	41.3
51	32.6	10.6	50.6

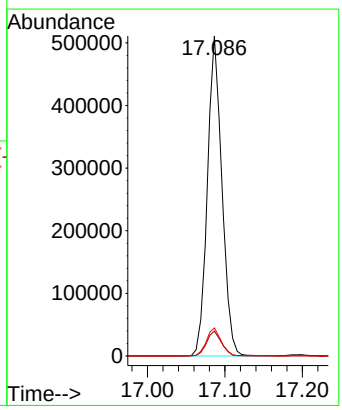


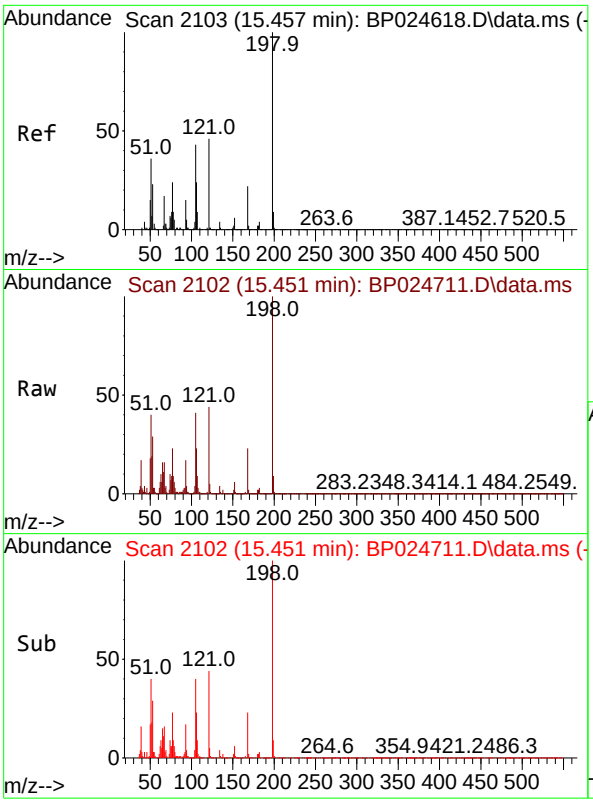


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.086 min Scan# 2380
Delta R.T. -0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:188 Resp: 665178

Ion	Ratio	Lower	Upper
188	100		
94	7.8	6.5	9.7
80	8.8	7.3	10.9



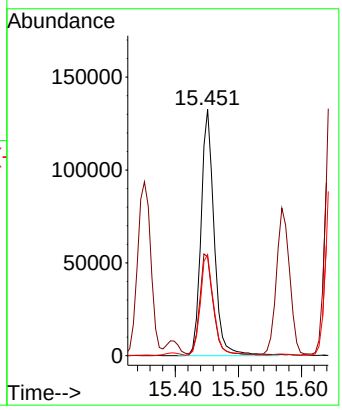


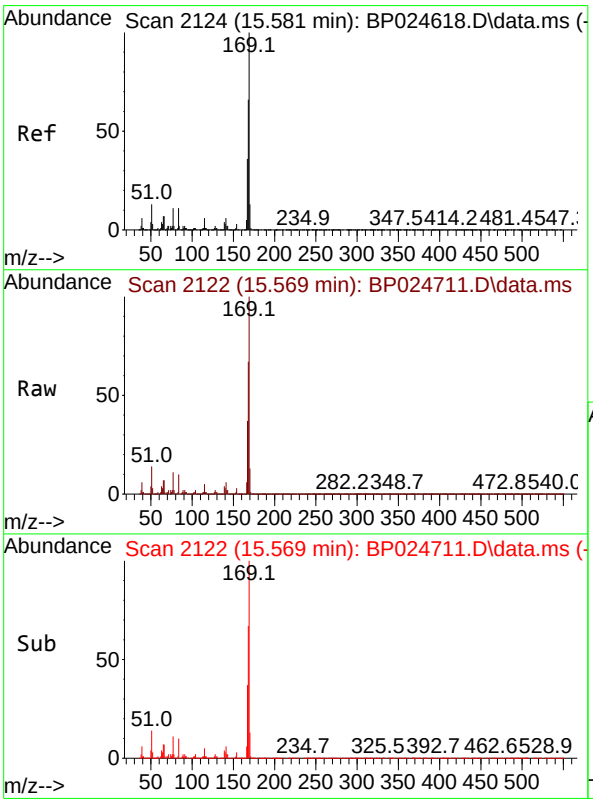
#65
4,6-Dinitro-2-methylphenol
Concen: 44.605 ng
RT: 15.451 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:198 Resp: 191651

Ion	Ratio	Lower	Upper
198	100		
51	40.1	21.1	61.1
105	41.1	23.6	63.6

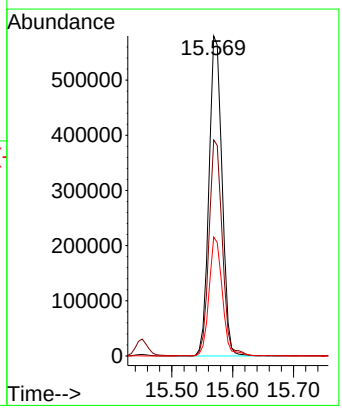


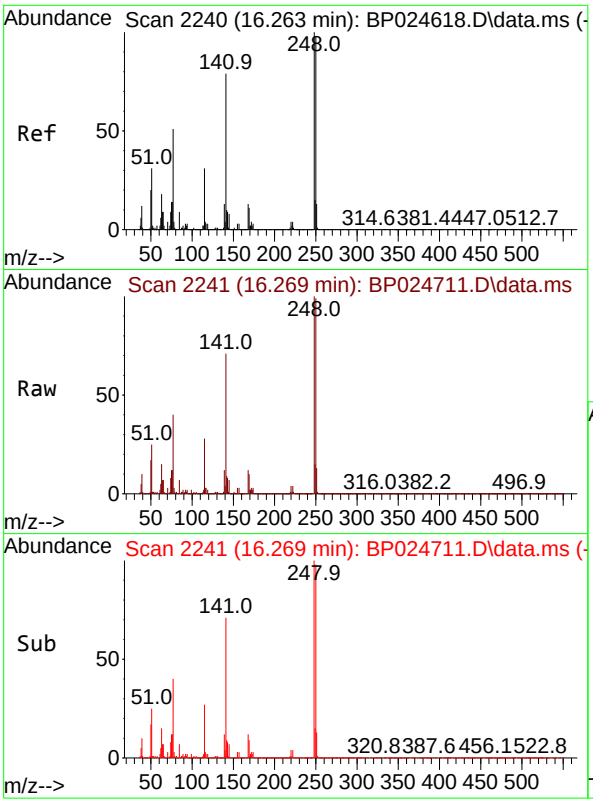


#66
n-Nitrosodiphenylamine
Concen: 42.251 ng
RT: 15.569 min Scan# 2122
Delta R.T. -0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:169 Resp: 863260

Ion	Ratio	Lower	Upper
169	100		
168	67.5	53.2	79.8
167	37.2	28.6	43.0



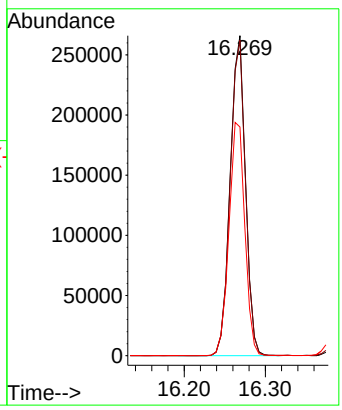


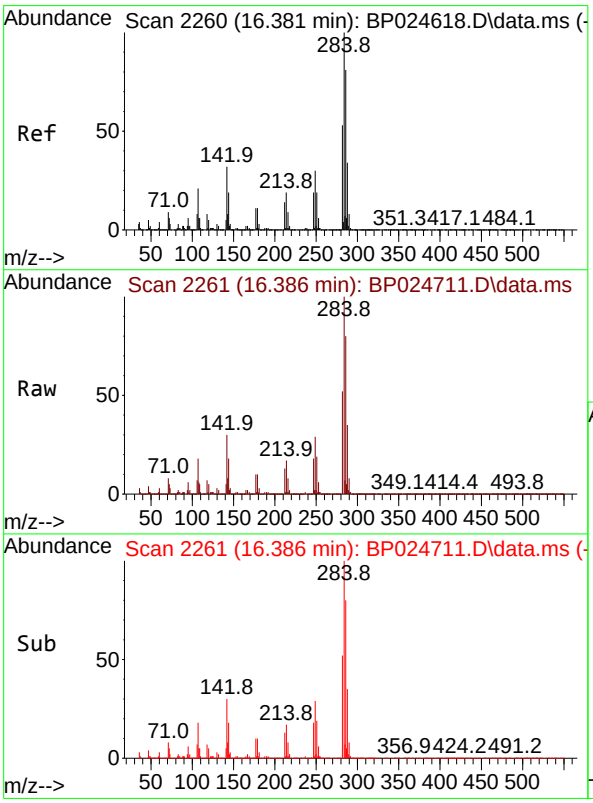
#67
4-Bromophenyl-phenylether
Concen: 44.345 ng
RT: 16.269 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:248 Resp: 347577

Ion	Ratio	Lower	Upper
248	100		
250	98.6	78.2	117.4
141	71.5	63.0	94.6

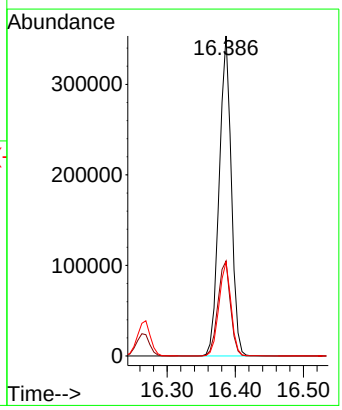


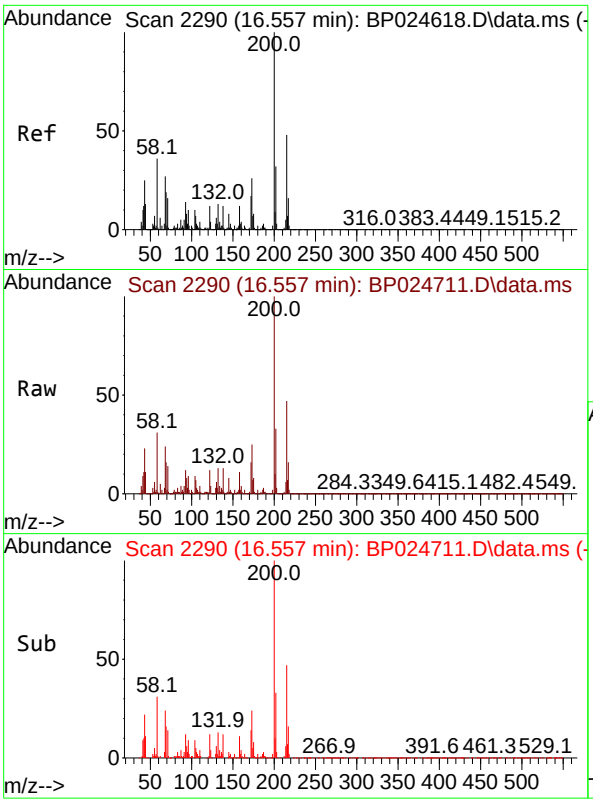


#68
Hexachlorobenzene
Concen: 43.695 ng
RT: 16.386 min Scan# 2261
Delta R.T. 0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:284 Resp: 435192

Ion	Ratio	Lower	Upper
284	100		
142	29.7	25.9	38.9
249	29.4	24.1	36.1



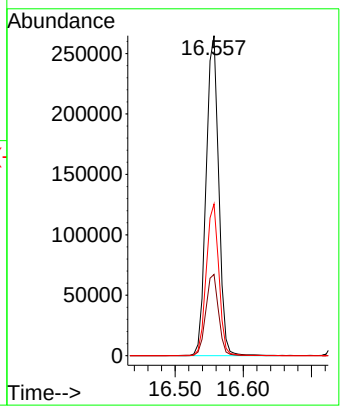


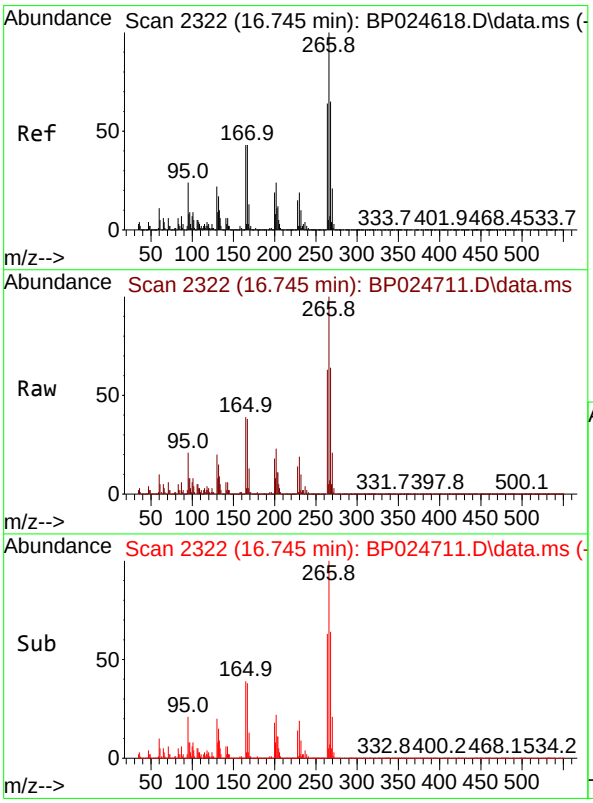
#69
Atrazine
Concen: 45.337 ng
RT: 16.557 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:200 Resp: 339465

Ion	Ratio	Lower	Upper
200	100		
173	25.4	5.9	45.9
215	47.4	28.3	68.3

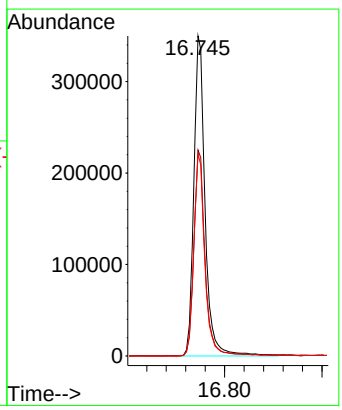


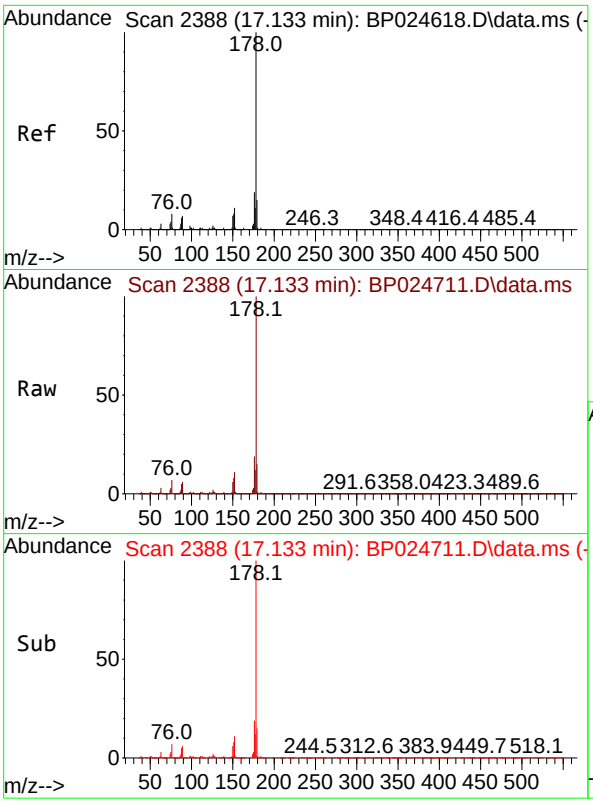


#70
Pentachlorophenol
Concen: 100.652 ng
RT: 16.745 min Scan# 2322
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:266 Resp: 562732

Ion	Ratio	Lower	Upper
266	100		
268	64.3	52.2	78.4
264	63.2	51.1	76.7



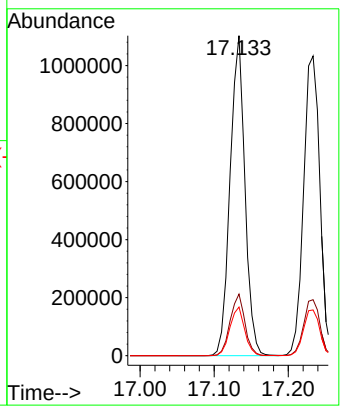


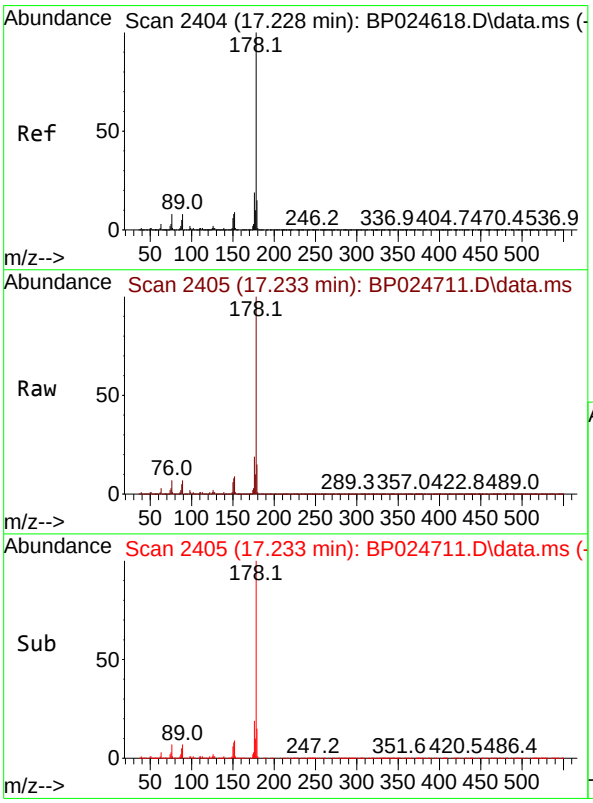
#71
Phenanthrene
Concen: 41.451 ng
RT: 17.133 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:178 Resp: 1532792

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.2	12.2	18.4

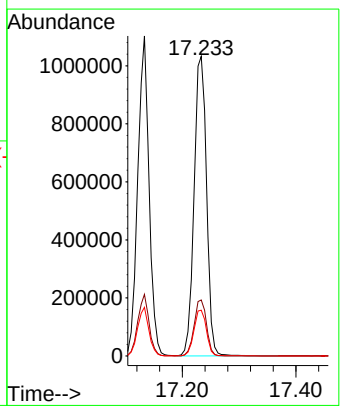


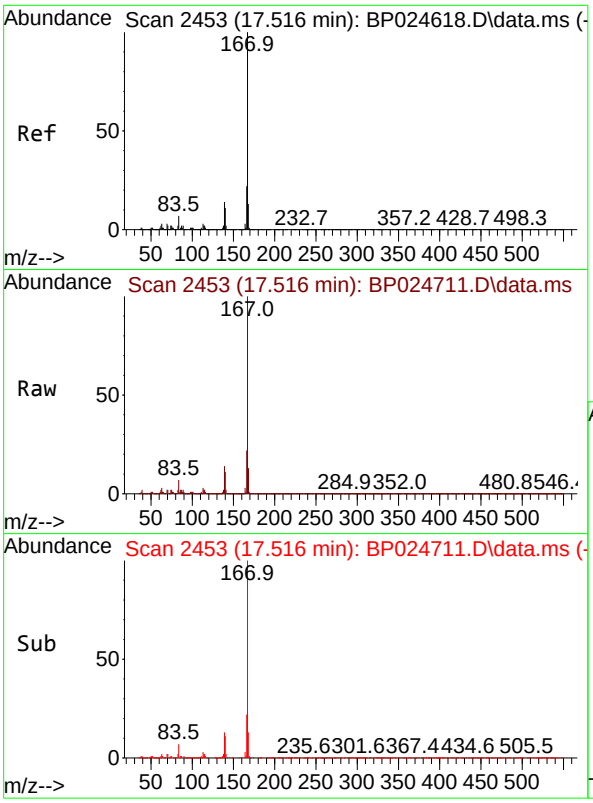


#72
Anthracene
Concen: 42.386 ng
RT: 17.233 min Scan# 2405
Delta R.T. 0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:178 Resp: 1576935

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.3	12.2	18.2



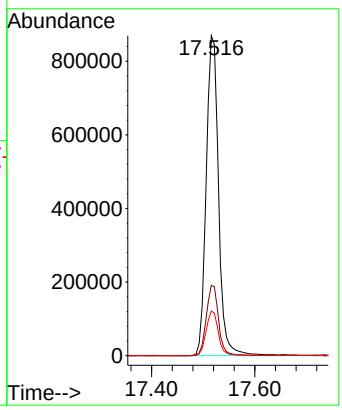


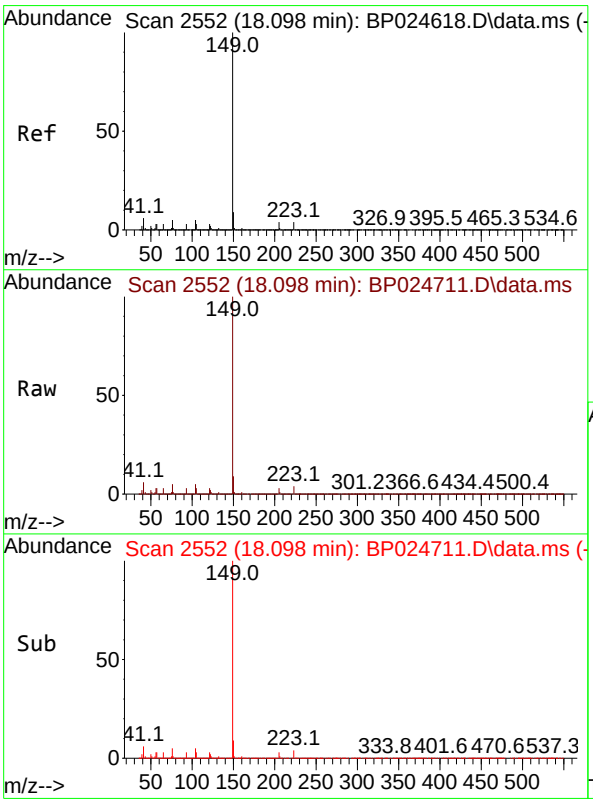
#73
Carbazole
Concen: 42.811 ng
RT: 17.516 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:167 Resp: 1441608

Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.7	26.5
139	14.0	11.3	16.9

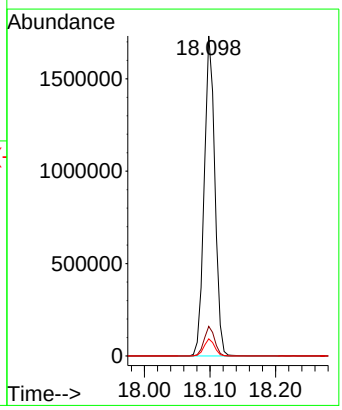


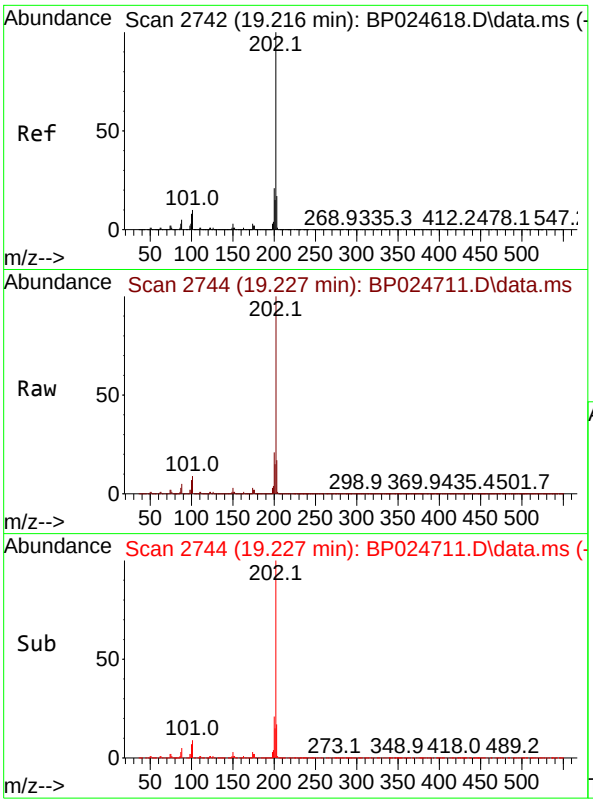


#74
Di-n-butylphthalate
Concen: 45.238 ng
RT: 18.098 min Scan# 2552
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:149 Resp: 1959105

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	5.4	4.3	6.5



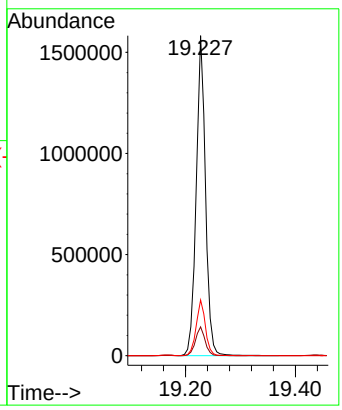


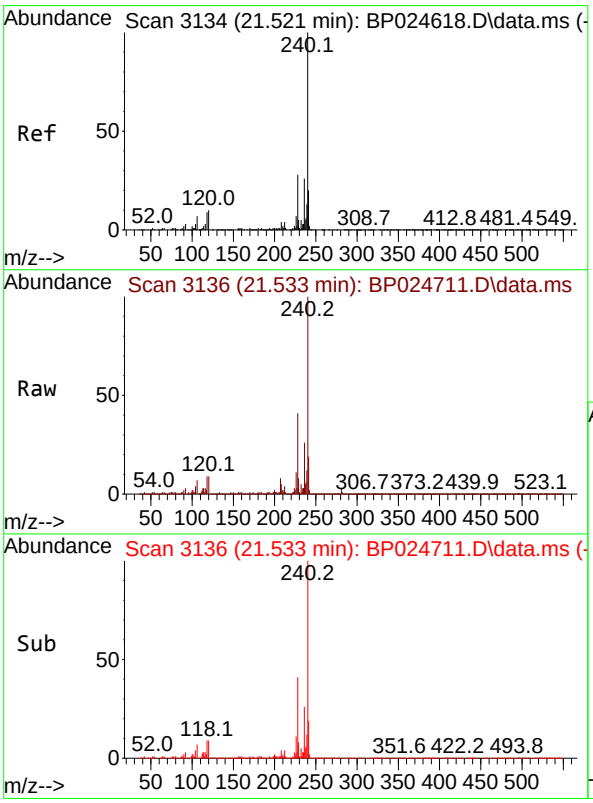
#75
Fluoranthene
Concen: 42.998 ng
RT: 19.227 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:202 Resp: 1858609

Ion	Ratio	Lower	Upper
202	100		
101	9.0	0.0	30.3
203	17.4	0.0	37.5

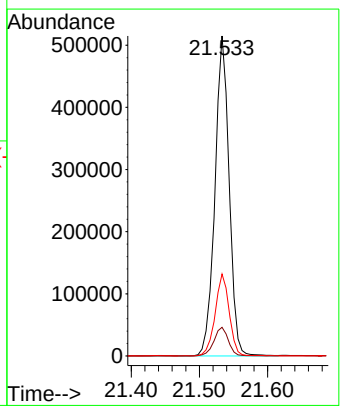


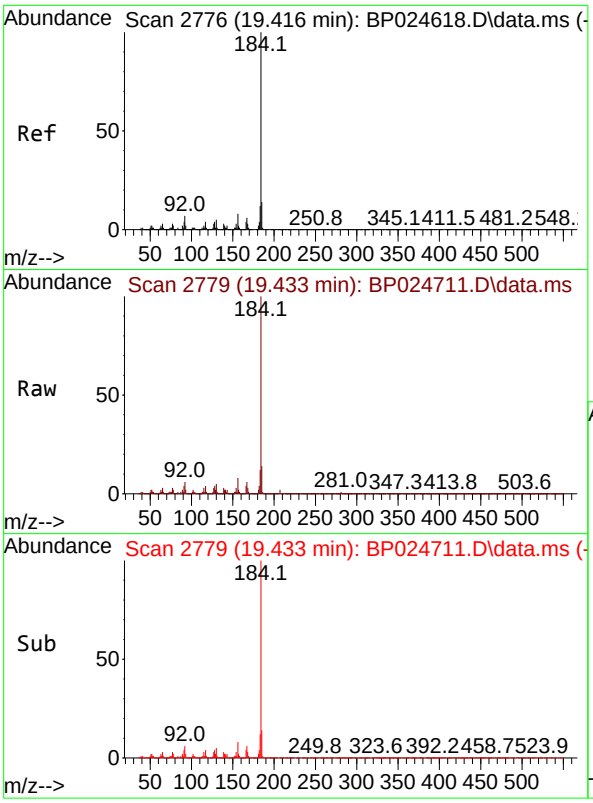


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.533 min Scan# 3136
Delta R.T. 0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:240 Resp: 748102

Ion	Ratio	Lower	Upper
240	100		
120	8.9	7.8	11.6
236	25.6	20.6	31.0



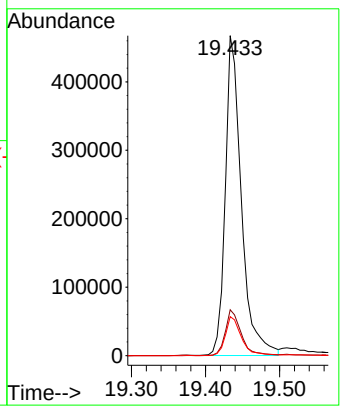


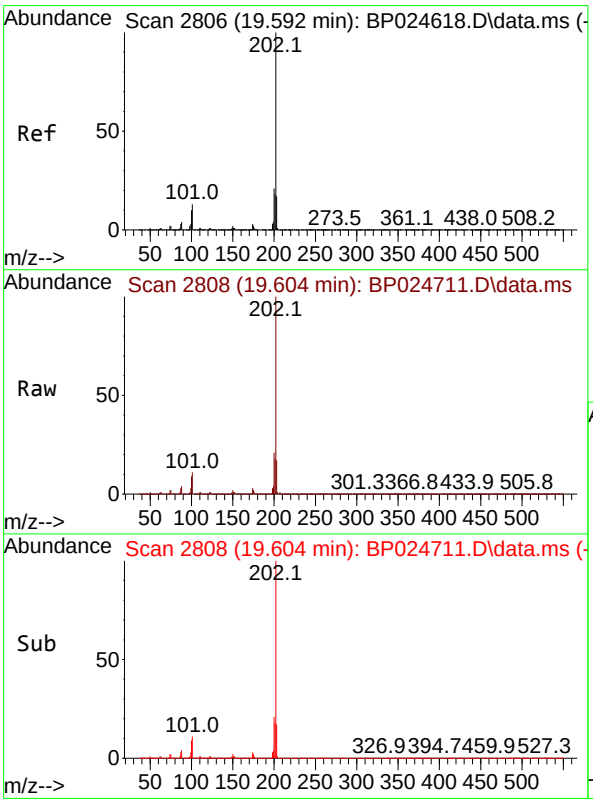
#77
Benzidine
Concen: 34.599 ng
RT: 19.433 min Scan# 2
Delta R.T. 0.017 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:184 Resp: 704965

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.2	16.8
183	12.2	9.8	14.8

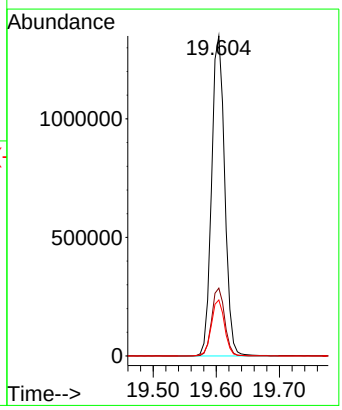


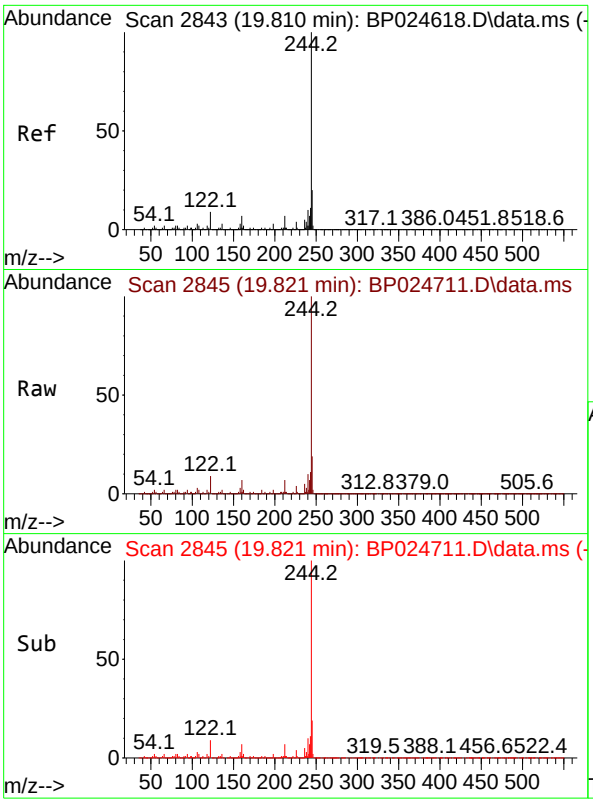


#78
Pyrene
Concen: 43.220 ng
RT: 19.604 min Scan# 2808
Delta R.T. 0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:202 Resp: 1937316

Ion	Ratio	Lower	Upper
202	100		
200	21.2	16.9	25.3
203	17.5	13.9	20.9



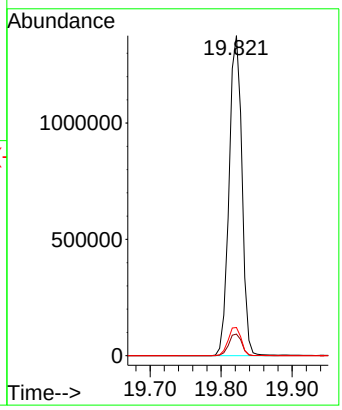


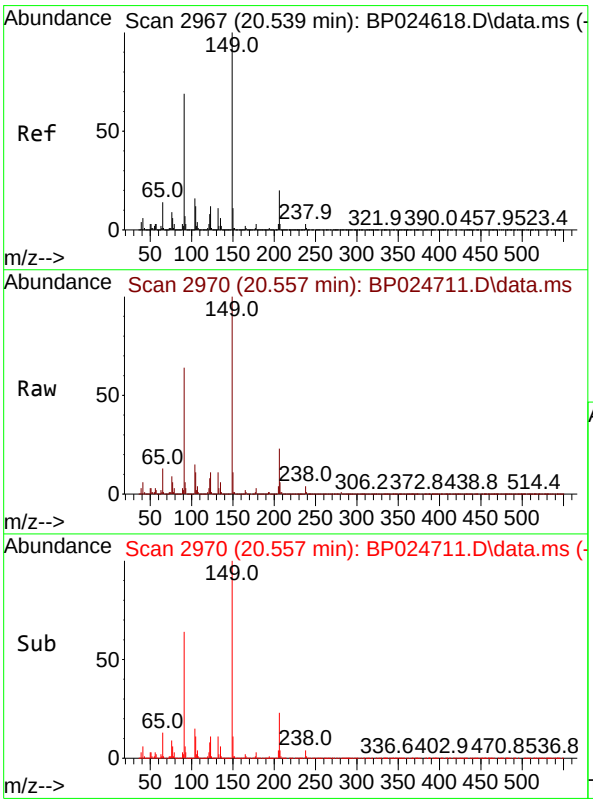
#79
Terphenyl-d14
Concen: 39.555 ng
RT: 19.821 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:244 Resp: 1725728

Ion	Ratio	Lower	Upper
244	100		
212	6.7	5.5	8.3
122	8.8	7.4	11.0

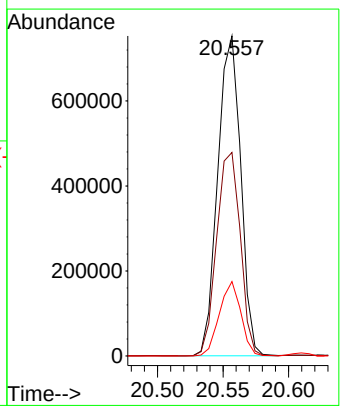


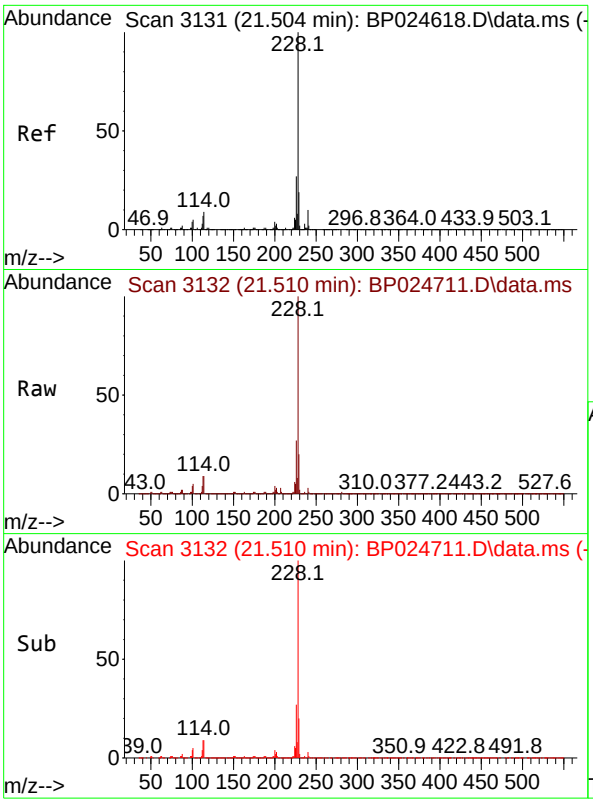


#80
Butylbenzylphthalate
Concen: 45.943 ng
RT: 20.557 min Scan# 2970
Delta R.T. 0.018 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:149 Resp: 915890

Ion	Ratio	Lower	Upper
149	100		
91	63.6	55.4	83.0
206	23.2	16.2	24.2



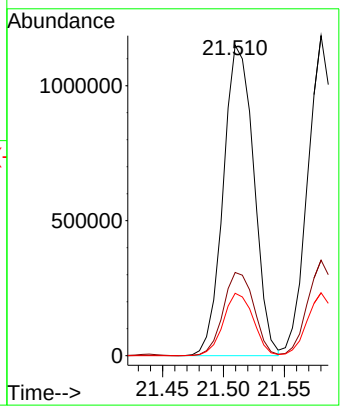


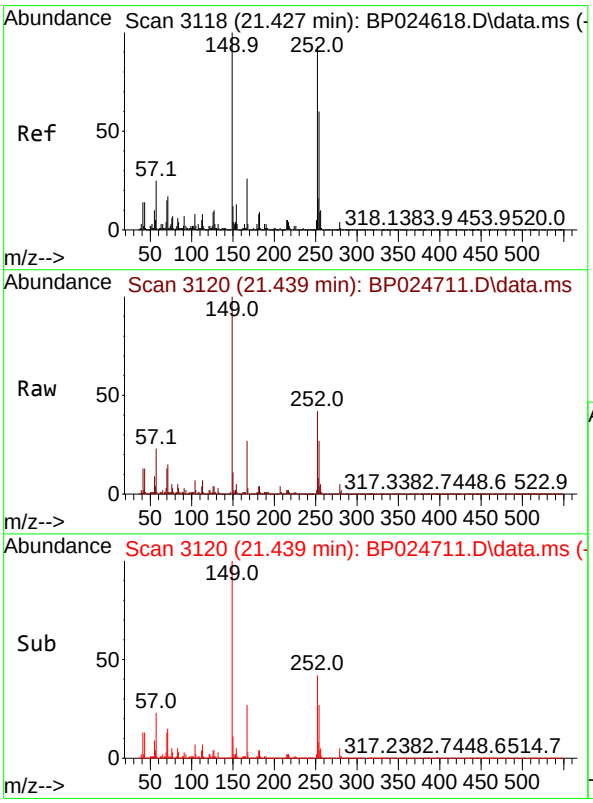
#81
Benzo(a)anthracene
Concen: 42.692 ng
RT: 21.510 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:228 Resp: 2005440

Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.4	32.0
229	20.1	15.5	23.3

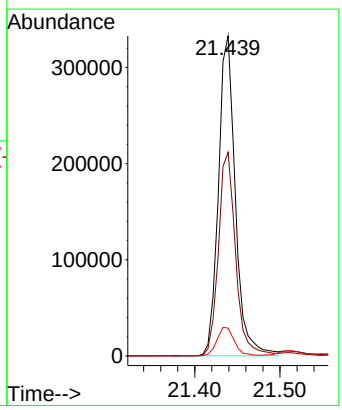


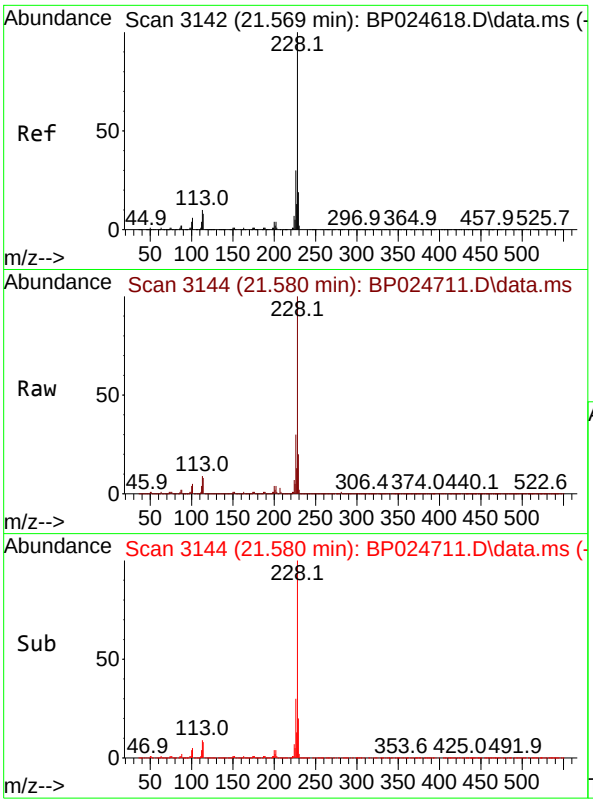


#82
3,3'-Dichlorobenzidine
Concen: 26.430 ng
RT: 21.439 min Scan# 3120
Delta R.T. 0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:252 Resp: 461135

Ion	Ratio	Lower	Upper
252	100		
254	63.7	51.8	77.6
126	8.7	7.7	11.5



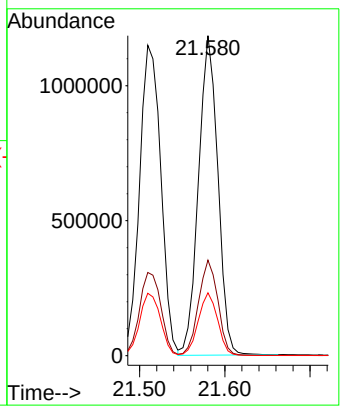


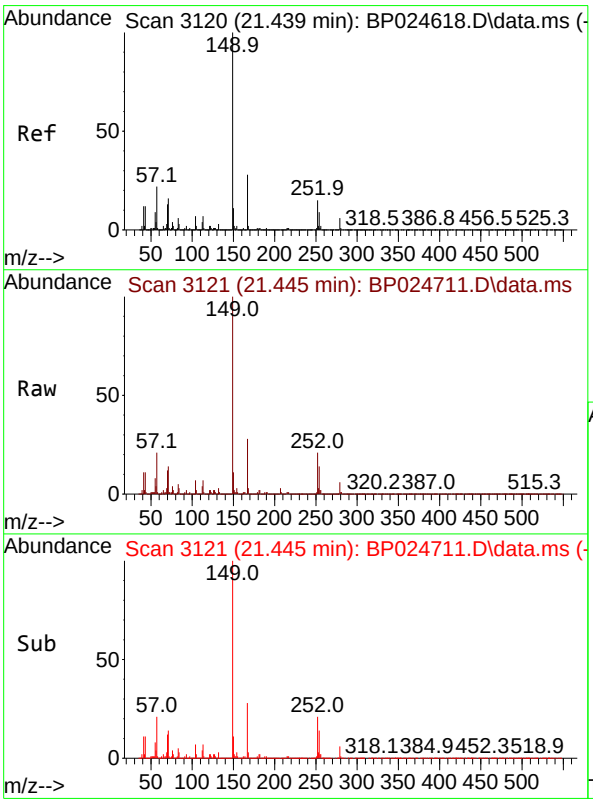
#83
Chrysene
Concen: 41.964 ng
RT: 21.580 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:228 Resp: 1868642

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.9	35.9
229	19.6	15.5	23.3

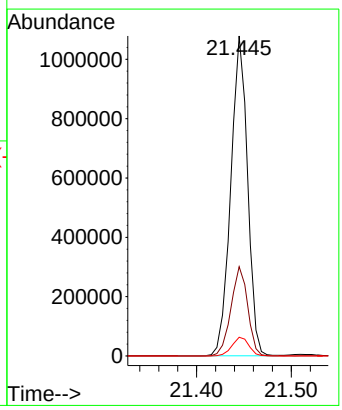


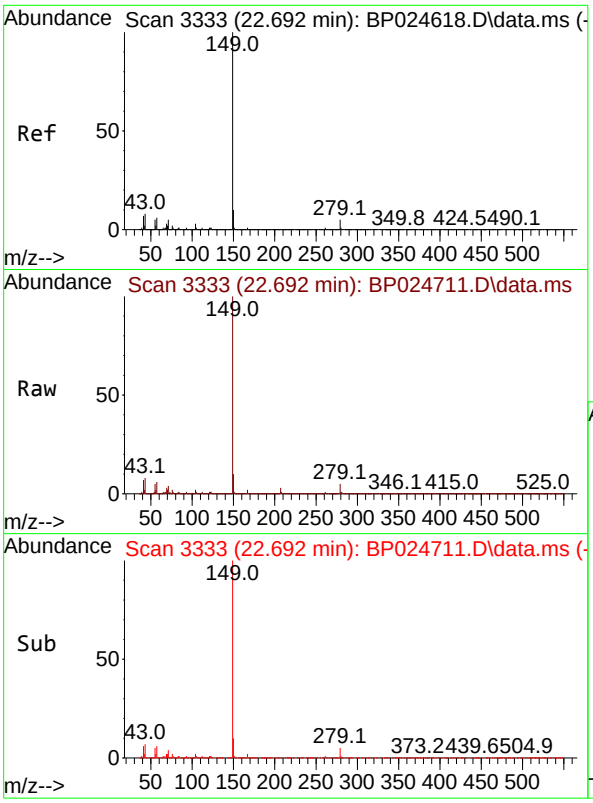


#84
Bis(2-ethylhexyl)phthalate
Concen: 45.244 ng
RT: 21.445 min Scan# 3121
Delta R.T. 0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:149 Resp: 1325702

Ion	Ratio	Lower	Upper
149	100		
167	27.9	22.1	33.1
279	5.9	4.6	6.8



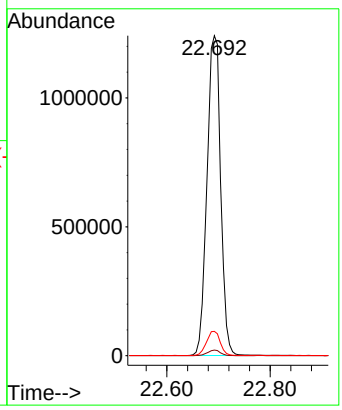


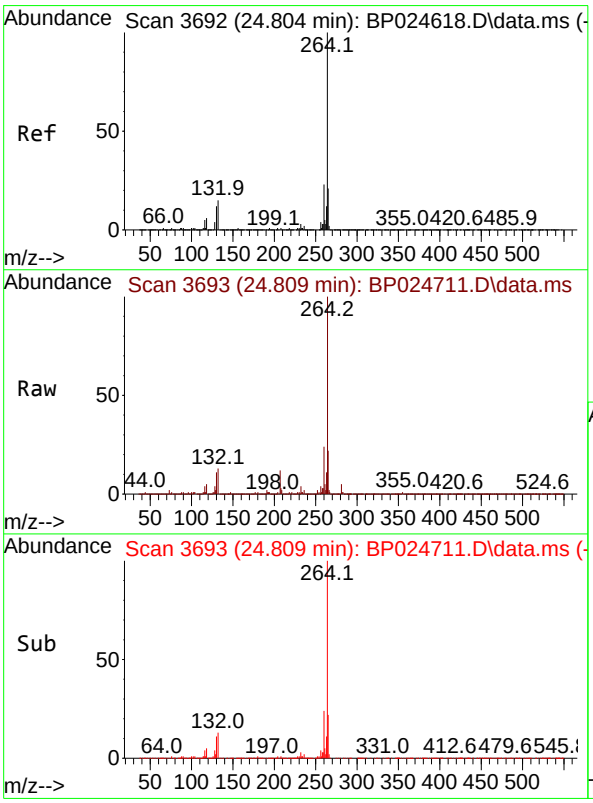
#85
Di-n-octyl phthalate
Concen: 47.529 ng
RT: 22.692 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:149 Resp: 2277377

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.6	6.3	9.5

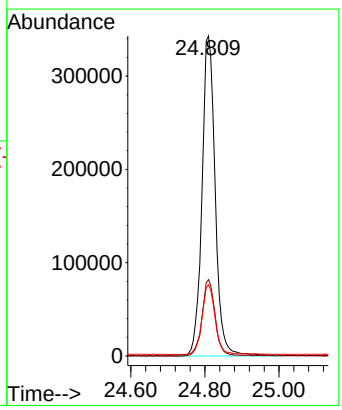


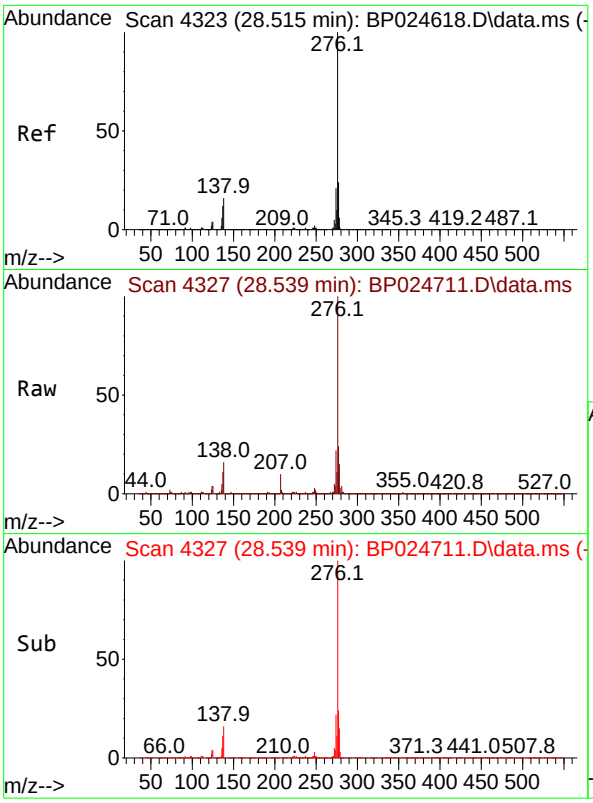


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.809 min Scan# 3693
Delta R.T. 0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:264 Resp: 853641

Ion	Ratio	Lower	Upper
264	100		
260	23.9	18.7	28.1
265	22.2	17.0	25.6



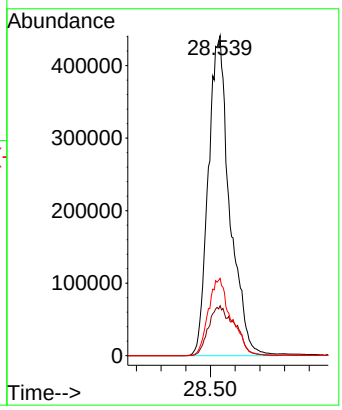


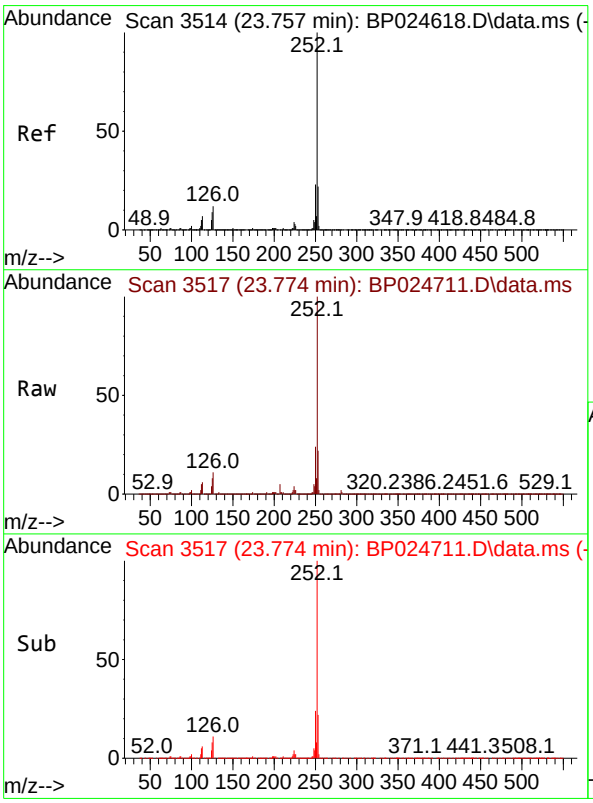
#87
Indeno(1,2,3-cd)pyrene
Concen: 42.664 ng
RT: 28.539 min Scan# 4
Delta R.T. 0.023 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:276 Resp: 2658846

Ion	Ratio	Lower	Upper
276	100		
138	19.2	11.2	16.8#
277	25.7	15.7	23.5#

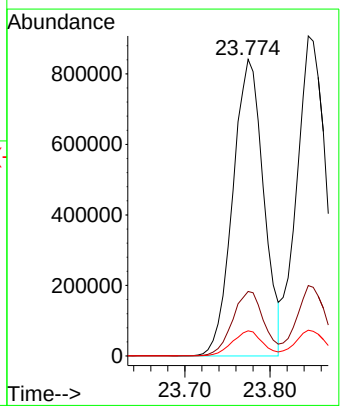


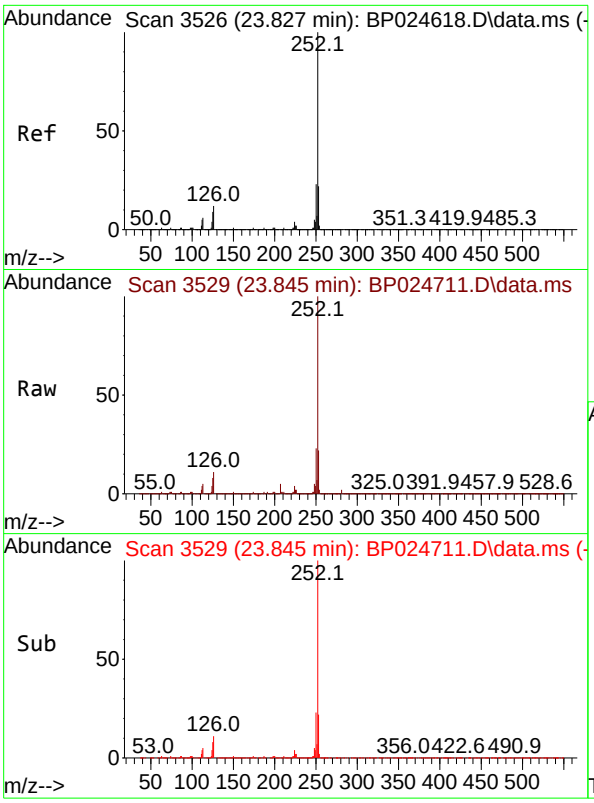


#88
Benzo(b)fluoranthene
Concen: 43.287 ng
RT: 23.774 min Scan# 3517
Delta R.T. 0.018 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:252 Resp: 2115032

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	8.5	7.5	11.3



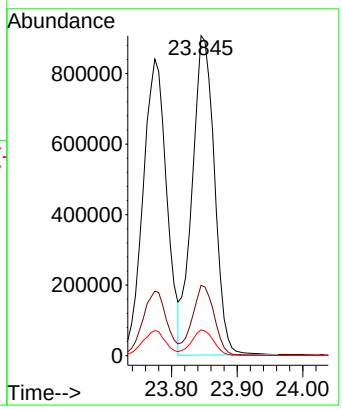


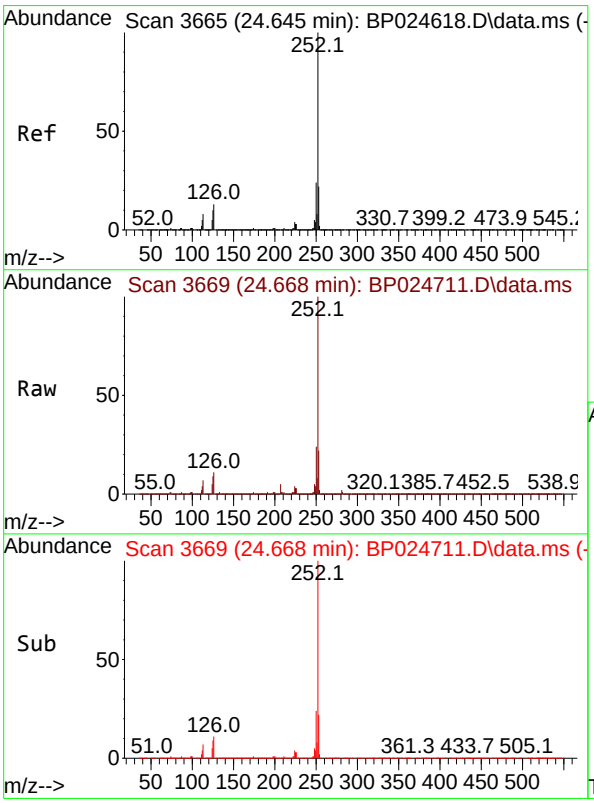
#89
Benzo(k)fluoranthene
Concen: 42.543 ng
RT: 23.845 min Scan# 3
Delta R.T. 0.018 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:252 Resp: 2141971

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	8.1	7.0	10.4

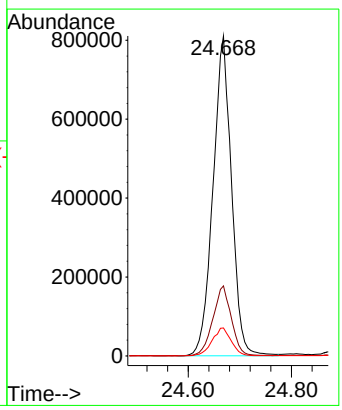


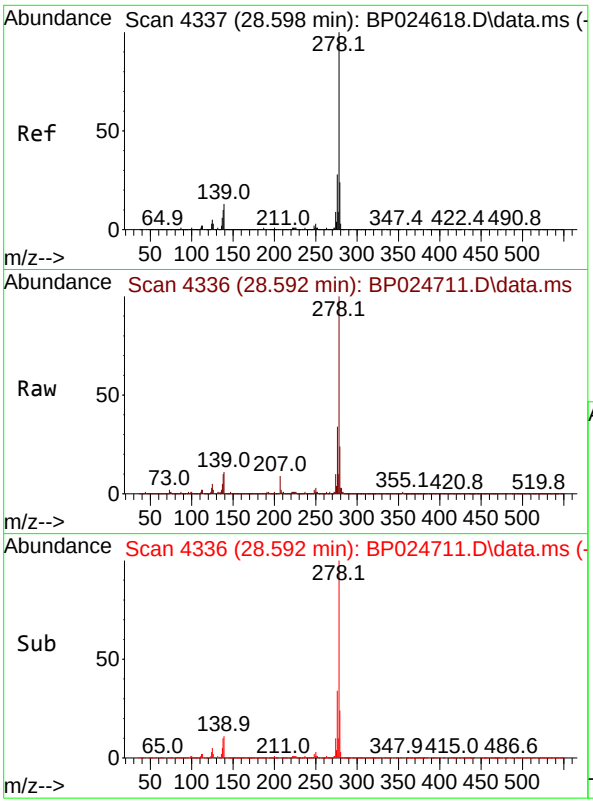


#90
Benzo(a)pyrene
Concen: 42.886 ng
RT: 24.668 min Scan# 3669
Delta R.T. 0.023 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:252 Resp: 2012486

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	8.8	8.1	12.1



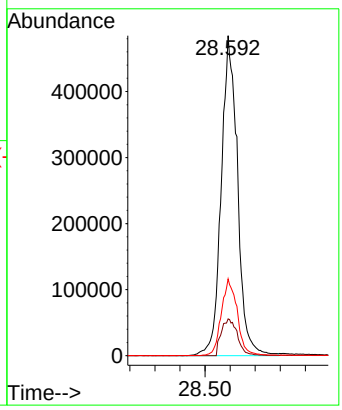


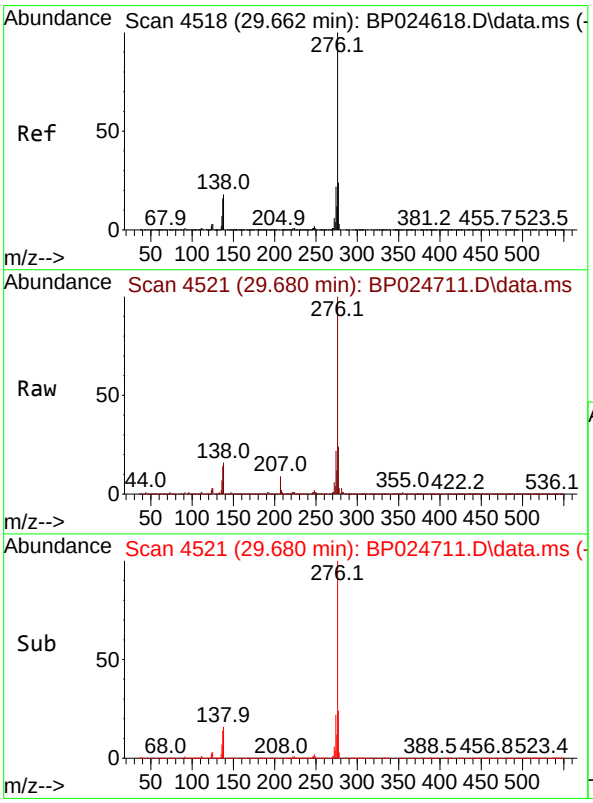
#91
Dibenzo(a,h)anthracene
Concen: 43.161 ng
RT: 28.592 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Instrument :
BNA_P
ClientSampleId :
L2-WC-5MSD

Tgt Ion:278 Resp: 2188260

Ion	Ratio	Lower	Upper
278	100		
139	11.5	10.2	15.4
279	24.0	19.0	28.4

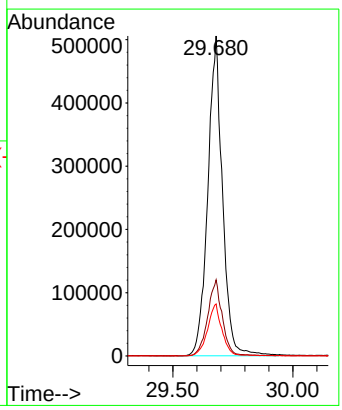




#92
Benzo(g,h,i)perylene
Concen: 42.556 ng
RT: 29.680 min Scan# 4521
Delta R.T. 0.018 min
Lab File: BP024711.D
Acq: 20 May 2025 17:19

Tgt Ion:276 Resp: 2145626

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.4
138	16.3	14.4	21.6



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

Manual Integration Report

Sequence:	BP051325	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC005	BP024615.D	4-Nitroaniline	Rahul	5/14/2025 2:19:40 PM	Jagrut	5/14/2025 5:15:55 PM	Peak Integrated by Software
SSTDICC005	BP024615.D	Benzaldehyde	Rahul	5/14/2025 2:19:40 PM	Jagrut	5/14/2025 5:15:55 PM	Peak Integrated by Software
SSTDICC005	BP024615.D	Caprolactam	Rahul	5/14/2025 2:19:40 PM	Jagrut	5/14/2025 5:15:55 PM	Peak Integrated by Software
SSTDICC010	BP024616.D	4-Nitroaniline	Rahul	5/14/2025 2:19:43 PM	Jagrut	5/14/2025 5:16:07 PM	Peak Integrated by Software
SSTDICC010	BP024616.D	Benzaldehyde	Rahul	5/14/2025 2:19:43 PM	Jagrut	5/14/2025 5:16:07 PM	Peak Integrated by Software
SSTDICC010	BP024616.D	Benzidine	Rahul	5/14/2025 2:19:43 PM	Jagrut	5/14/2025 5:16:07 PM	Peak Integrated by Software
SSTDICC010	BP024616.D	Benzoic acid	Rahul	5/14/2025 2:19:43 PM	Jagrut	5/14/2025 5:16:07 PM	Peak Integrated by Software
SSTDICC010	BP024616.D	Caprolactam	Rahul	5/14/2025 2:19:43 PM	Jagrut	5/14/2025 5:16:07 PM	Peak Integrated by Software
SSTDICC010	BP024616.D	Pentachlorophenol	Rahul	5/14/2025 2:19:43 PM	Jagrut	5/14/2025 5:16:07 PM	Peak Integrated by Software
SSTDICC020	BP024617.D	Benzaldehyde	Rahul	5/14/2025 2:19:45 PM	Jagrut	5/14/2025 5:16:09 PM	Peak Integrated by Software
SSTDICC020	BP024617.D	Benzoic acid	Rahul	5/14/2025 2:19:45 PM	Jagrut	5/14/2025 5:16:09 PM	Peak Integrated by Software
SSTDICC020	BP024617.D	Indeno(1,2,3-cd)pyrene	Rahul	5/14/2025 2:19:45 PM	Jagrut	5/14/2025 5:16:09 PM	Peak Integrated by Software
SSTDICCC040	BP024618.D	Benzaldehyde	Rahul	5/14/2025 2:19:48 PM	Jagrut	5/14/2025 5:16:12 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BP051325	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICCC040	BP024618.D	Benzoic acid	Rahul	5/14/2025 2:19:48 PM	Jagrut	5/14/2025 5:16:12 PM	Peak Integrated by Software
SSTDICC080	BP024621.D	Indeno(1,2,3-cd)pyrene	Rahul	5/14/2025 2:19:51 PM	Jagrut	5/14/2025 5:16:14 PM	Peak Integrated by Software
SSTDICV040	BP024622.D	Indeno(1,2,3-cd)pyrene	Rahul	5/14/2025 2:19:57 PM	Jagrut	5/14/2025 5:16:17 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	BP051525	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB167973BS	BP024636.D	Indeno(1,2,3-cd)pyrene	Rahul	5/16/2025 1:10:20 PM	Jagrut	5/16/2025 5:49:16 PM	Peak Integrated by Software
Q2010-02MSD	BP024639.D	Caprolactam	Rahul	5/16/2025 1:10:23 PM	Jagrut	5/16/2025 5:49:19 PM	Peak Integrated by Software
Q1984-13	BP024645.D	Chrysene	Rahul	5/16/2025 1:10:26 PM	Jagrut	5/16/2025 5:49:21 PM	Peak Integrated by Software

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

Manual Integration Report

Sequence:	bp052025	Instrument	BNA_p

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BP024735.D	Benzoic acid	Rahul	5/21/2025 1:16:15 PM	Jagrut	5/21/2025 4:43:03 PM	Peak Integrated by Software

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP051325

Review By	Rahul	Review On	5/14/2025 2:20:20 PM		
Supervise By	Jagrut	Supervise On	5/14/2025 5:16:42 PM		
SubDirectory	BP051325	HP Acquire Method	BNA_P	HP Processing Method	bp051325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12664,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024613.D	13 May 2025 10:00	RC/JU	Ok
2	SSTDICC2.5	BP024614.D	13 May 2025 10:41	RC/JU	Ok
3	SSTDICC005	BP024615.D	13 May 2025 11:22	RC/JU	Ok,M
4	SSTDICC010	BP024616.D	13 May 2025 12:03	RC/JU	Ok,M
5	SSTDICC020	BP024617.D	13 May 2025 12:43	RC/JU	Ok,M
6	SSTDICCC040	BP024618.D	13 May 2025 13:24	RC/JU	Ok,M
7	SSTDICC050	BP024619.D	13 May 2025 14:05	RC/JU	Ok
8	SSTDICC060	BP024620.D	13 May 2025 14:45	RC/JU	Ok
9	SSTDICC080	BP024621.D	13 May 2025 15:26	RC/JU	Ok,M
10	SSTDICV040	BP024622.D	13 May 2025 17:01	RC/JU	Ok,M
11	PB167917TB	BP024623.D	13 May 2025 18:23	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP051525

Review By	Rahul	Review On	5/16/2025 2:18:41 PM				
Supervise By	Jagrut	Supervise On	5/16/2025 5:49:55 PM				
SubDirectory	BP051525	HP Acquire Method	BNA_P		HP Processing Method	BP051325	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12664,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024633.D	15 May 2025 11:44	RC/JU	Ok
2	SSTDCCC040	BP024634.D	15 May 2025 12:25	RC/JU	Ok
3	PB167973BL	BP024635.D	15 May 2025 13:05	RC/JU	Ok
4	PB167973BS	BP024636.D	15 May 2025 13:53	RC/JU	Ok,M
5	Q2010-02	BP024637.D	15 May 2025 14:38	RC/JU	Ok
6	Q2010-02MS	BP024638.D	15 May 2025 15:18	RC/JU	Ok
7	Q2010-02MSD	BP024639.D	15 May 2025 15:59	RC/JU	Ok,M
8	Q1984-01	BP024640.D	15 May 2025 16:40	RC/JU	Ok
9	Q1984-03	BP024641.D	15 May 2025 17:21	RC/JU	ReRun
10	Q1984-05	BP024642.D	15 May 2025 18:01	RC/JU	Ok
11	Q1984-09	BP024643.D	15 May 2025 18:42	RC/JU	ReRun
12	Q1984-11	BP024644.D	15 May 2025 19:23	RC/JU	Ok
13	Q1984-13	BP024645.D	15 May 2025 20:04	RC/JU	ReRun
14	Q1984-15	BP024646.D	15 May 2025 20:45	RC/JU	Ok
15	Q1982-08	BP024647.D	15 May 2025 21:25	RC/JU	Ok,M
16	Q1984-07	BP024648.D	15 May 2025 22:06	RC/JU	Ok
17	SSTDCCC040	BP024649.D	15 May 2025 23:28	RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP052025

Review By	Rahul	Review On	5/21/2025 1:31:28 PM				
Supervise By	Jagrut	Supervise On	5/21/2025 4:43:18 PM				
SubDirectory	BP052025	HP Acquire Method	BNA_P		HP Processing Method	BP051325	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BP024702.D	20 May 2025 10:31	RC/JU	Ok
2	SSTDCCC040	BP024703.D	20 May 2025 11:52	RC/JU	Ok
3	PB168052BL	BP024704.D	20 May 2025 12:33	RC/JU	Ok
4	PB168052BS	BP024705.D	20 May 2025 13:14	RC/JU	Ok
5	PB168048BL	BP024706.D	20 May 2025 13:55	RC/JU	Ok
6	PB168048BS	BP024707.D	20 May 2025 14:35	RC/JU	Ok
7	PB168048BSD	BP024708.D	20 May 2025 15:16	RC/JU	Ok,M
8	Q2071-13	BP024709.D	20 May 2025 15:57	RC/JU	Ok
9	Q2071-13MS	BP024710.D	20 May 2025 16:38	RC/JU	Ok
10	Q2071-13MSD	BP024711.D	20 May 2025 17:19	RC/JU	Ok
11	Q2064-01	BP024712.D	20 May 2025 17:59	RC/JU	Ok
12	Q2064-04	BP024713.D	20 May 2025 18:40	RC/JU	Ok
13	Q2064-05	BP024714.D	20 May 2025 19:21	RC/JU	Ok,M
14	Q2064-08	BP024715.D	20 May 2025 20:02	RC/JU	Ok
15	Q2032-11	BP024716.D	20 May 2025 20:42	RC/JU	Ok
16	Q2065-01	BP024717.D	20 May 2025 21:23	RC/JU	Ok,M
17	SSTDCCC040	BP024718.D	20 May 2025 22:04	RC/JU	Ok
18	DFTPP	BP024719.D	21 May 2025 00:06	RC/JU	Ok
19	SSTDCCC040	BP024720.D	21 May 2025 00:47	RC/JU	Ok
20	PB168033TB	BP024721.D	21 May 2025 01:28	RC/JU	Ok
21	Q2067-01DL	BP024722.D	21 May 2025 02:08	RC/JU	Ok

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP052025

Review By	Rahul	Review On	5/21/2025 1:31:28 PM				
Supervise By	Jagrut	Supervise On	5/21/2025 4:43:18 PM				
SubDirectory	BP052025	HP Acquire Method	BNA_P		HP Processing Method	BP051325	

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q1984-03	BP024723.D	21 May 2025 02:49	RC/JU	Ok
23	Q1984-09	BP024724.D	21 May 2025 03:30	RC/JU	Ok
24	Q1984-13RX	BP024725.D	21 May 2025 04:10	RC/JU	Confirms
25	Q2057-04	BP024726.D	21 May 2025 04:51	RC/JU	Ok
26	Q2062-04	BP024727.D	21 May 2025 05:31	RC/JU	Ok
27	Q2062-08	BP024728.D	21 May 2025 06:12	RC/JU	Ok
28	Q2062-12	BP024729.D	21 May 2025 06:53	RC/JU	Ok
29	Q2062-16	BP024730.D	21 May 2025 07:33	RC/JU	Ok
30	Q2062-20	BP024731.D	21 May 2025 08:14	RC/JU	Ok
31	Q2062-24	BP024732.D	21 May 2025 08:54	RC/JU	Ok
32	Q2080-06	BP024733.D	21 May 2025 09:35	RC/JU	Ok
33	Q2080-12	BP024734.D	21 May 2025 10:16	RC/JU	Ok
34	SSTDCCC040	BP024735.D	21 May 2025 10:56	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_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP051325

Review By	Rahul	Review On	5/14/2025 2:20:20 PM		
Supervise By	Jagrut	Supervise On	5/14/2025 5:16:42 PM		
SubDirectory	BP051325	HP Acquire Method	BNA_P	HP Processing Method	bp051325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12664,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024613.D	13 May 2025 10:00		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BP024614.D	13 May 2025 10:41		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BP024615.D	13 May 2025 11:22	Compound#32-54-56-65-77 removed from 5 ppm	RC/JU	Ok,M
4	SSTDICC010	SSTDICC010	BP024616.D	13 May 2025 12:03		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BP024617.D	13 May 2025 12:43		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BP024618.D	13 May 2025 13:24	Compound#32-54-56 Kept on LR	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BP024619.D	13 May 2025 14:05		RC/JU	Ok
8	SSTDICC060	SSTDICC060	BP024620.D	13 May 2025 14:45		RC/JU	Ok
9	SSTDICC080	SSTDICC080	BP024621.D	13 May 2025 15:26		RC/JU	Ok,M
10	SSTDICV040	ICVBP051325	BP024622.D	13 May 2025 17:01		RC/JU	Ok,M
11	PB167917TB	PB167917TB	BP024623.D	13 May 2025 18:23		RC/JU	Ok

M : Manual Integration

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP051525

Review By	Rahul	Review On	5/16/2025 2:18:41 PM		
Supervise By	Jagrut	Supervise On	5/16/2025 5:49:55 PM		
SubDirectory	BP051525	HP Acquire Method	BNA_P	HP Processing Method	BP051325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12664,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024633.D	15 May 2025 11:44		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP024634.D	15 May 2025 12:25		RC/JU	Ok
3	PB167973BL	PB167973BL	BP024635.D	15 May 2025 13:05		RC/JU	Ok
4	PB167973BS	PB167973BS	BP024636.D	15 May 2025 13:53		RC/JU	Ok,M
5	Q2010-02	TP-13	BP024637.D	15 May 2025 14:38		RC/JU	Ok
6	Q2010-02MS	TP-13MS	BP024638.D	15 May 2025 15:18		RC/JU	Ok
7	Q2010-02MSD	TP-13MSD	BP024639.D	15 May 2025 15:59		RC/JU	Ok,M
8	Q1984-01	OU4-PCS-TC-33-05072	BP024640.D	15 May 2025 16:40		RC/JU	Ok
9	Q1984-03	OU4-PCS-TC-34-05072	BP024641.D	15 May 2025 17:21	Surrogate Fail - RE EXTRACTION.	RC/JU	ReRun
10	Q1984-05	OU4-PCS-TC-35-05072	BP024642.D	15 May 2025 18:01		RC/JU	Ok
11	Q1984-09	OU4-TS-25-050725	BP024643.D	15 May 2025 18:42	Surrogate Fail - RE EXTRACTION.	RC/JU	ReRun
12	Q1984-11	OU4-TS-26-050725	BP024644.D	15 May 2025 19:23		RC/JU	Ok
13	Q1984-13	OU4-TS-27-050725	BP024645.D	15 May 2025 20:04	Surrogate Fail - RE EXTRACTION.	RC/JU	ReRun
14	Q1984-15	OU4-TS-28-050725	BP024646.D	15 May 2025 20:45		RC/JU	Ok
15	Q1982-08	TP-9	BP024647.D	15 May 2025 21:25		RC/JU	Ok,M
16	Q1984-07	OU4-TS-24-050725	BP024648.D	15 May 2025 22:06		RC/JU	Ok
17	SSTDCCC040	SSTDCCC040EC	BP024649.D	15 May 2025 23:28		RC/JU	Ok

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP051525

Review By	Rahul	Review On	5/16/2025 2:18:41 PM		
Supervise By	Jagrut	Supervise On	5/16/2025 5:49:55 PM		
SubDirectory	BP051525	HP Acquire Method	BNA_P	HP Processing Method	BP051325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12664,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

M : Manual Integration

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP052025

Review By	Rahul	Review On	5/21/2025 1:31:28 PM		
Supervise By	Jagrut	Supervise On	5/21/2025 4:43:18 PM		
SubDirectory	BP052025	HP Acquire Method	BNA_P	HP Processing Method	BP051325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BP024702.D	20 May 2025 10:31		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BP024703.D	20 May 2025 11:52		RC/JU	Ok
3	PB168052BL	PB168052BL	BP024704.D	20 May 2025 12:33		RC/JU	Ok
4	PB168052BS	PB168052BS	BP024705.D	20 May 2025 13:14		RC/JU	Ok
5	PB168048BL	PB168048BL	BP024706.D	20 May 2025 13:55		RC/JU	Ok
6	PB168048BS	PB168048BS	BP024707.D	20 May 2025 14:35		RC/JU	Ok
7	PB168048BSD	PB168048BSD	BP024708.D	20 May 2025 15:16		RC/JU	Ok,M
8	Q2071-13	L2-WC-5	BP024709.D	20 May 2025 15:57		RC/JU	Ok
9	Q2071-13MS	L2-WC-5MS	BP024710.D	20 May 2025 16:38		RC/JU	Ok
10	Q2071-13MSD	L2-WC-5MSD	BP024711.D	20 May 2025 17:19		RC/JU	Ok
11	Q2064-01	RW8-SP100-70-202505	BP024712.D	20 May 2025 17:59		RC/JU	Ok
12	Q2064-04	RW8-SP303-70-202505	BP024713.D	20 May 2025 18:40		RC/JU	Ok
13	Q2064-05	RW8-SP100-90-202505	BP024714.D	20 May 2025 19:21		RC/JU	Ok,M
14	Q2064-08	RW8-SP303-90-202505	BP024715.D	20 May 2025 20:02		RC/JU	Ok
15	Q2032-11	FB-05132025	BP024716.D	20 May 2025 20:42		RC/JU	Ok
16	Q2065-01	VACTRUCK-728068	BP024717.D	20 May 2025 21:23		RC/JU	Ok,M
17	SSTDCCC040	SSTDCCC040EC	BP024718.D	20 May 2025 22:04		RC/JU	Ok
18	DFTPP	DFTPP	BP024719.D	21 May 2025 00:06		RC/JU	Ok

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

Instrument ID: BNA_P

Daily Analysis Runlog For Sequence/QCBatch ID # BP052025

Review By	Rahul	Review On	5/21/2025 1:31:28 PM		
Supervise By	Jagrut	Supervise On	5/21/2025 4:43:18 PM		
SubDirectory	BP052025	HP Acquire Method	BNA_P	HP Processing Method	BP051325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6784,SP6785,SP6786,SP6787,SP6788,SP6790,SP6789,SP6791
CCC	SP6787
Internal Standard/PEM	S12665,10ul/1000ul sample
ICV/I.BLK	SP6770
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	SSTDCCC040	SSTDCCC040	BP024720.D	21 May 2025 00:47		RC/JU	Ok
20	PB168033TB	PB168033TB	BP024721.D	21 May 2025 01:28		RC/JU	Ok
21	Q2067-01DL	303-PPR-FRACDL	BP024722.D	21 May 2025 02:08		RC/JU	Ok
22	Q1984-03	OU4-PCS-TC-34-05072	BP024723.D	21 May 2025 02:49		RC/JU	Ok
23	Q1984-09	OU4-TS-25-050725	BP024724.D	21 May 2025 03:30		RC/JU	Ok
24	Q1984-13RX	OU4-TS-27-050725RX	BP024725.D	21 May 2025 04:10	Surrogates Fail	RC/JU	Confirms
25	Q2057-04	MH-L	BP024726.D	21 May 2025 04:51		RC/JU	Ok
26	Q2062-04	L1-WC-1	BP024727.D	21 May 2025 05:31		RC/JU	Ok
27	Q2062-08	L1-WC-2	BP024728.D	21 May 2025 06:12		RC/JU	Ok
28	Q2062-12	L1-WC-3	BP024729.D	21 May 2025 06:53		RC/JU	Ok
29	Q2062-16	L1-WC-4	BP024730.D	21 May 2025 07:33		RC/JU	Ok
30	Q2062-20	L1-WC-5	BP024731.D	21 May 2025 08:14		RC/JU	Ok
31	Q2062-24	L1-WC-6	BP024732.D	21 May 2025 08:54		RC/JU	Ok
32	Q2080-06	PL-HRH-COMP-01	BP024733.D	21 May 2025 09:35		RC/JU	Ok
33	Q2080-12	PL-HRH-COMP-02	BP024734.D	21 May 2025 10:16		RC/JU	Ok
34	SSTDCCC040	SSTDCCC040EC	BP024735.D	21 May 2025 10:56		RC/JU	Ok,M

M : Manual Integration

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 5/9/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:20
In Date: 05/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:27
Out Date: 05/09/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135705

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1929-14	WC-A4-02-C	1	1.15	10.65	11.8	10.38	86.7	
Q1929-15	WC-A1-03-C	2	1.18	10.06	11.24	9.00	77.7	
Q1929-16	WC-A1-04-C	3	1.17	10.24	11.41	9.52	81.5	
Q1982-01	TP-1	4	1.15	10.33	11.48	9.51	80.9	
Q1982-02	TP-2B	5	1.18	10.20	11.38	9.85	85.0	
Q1982-03	TP-3	6	1.18	10.54	11.72	10.74	90.7	
Q1982-04	TP-4	7	1.19	10.07	11.26	9.99	87.4	
Q1982-05	TP-5	8	1.18	10.08	11.26	10.24	89.9	
Q1982-06	TP-6	9	1.16	10.74	11.9	10.42	86.2	
Q1982-07	TP-7	10	1.19	10.23	11.42	9.75	83.7	
Q1982-08	TP-8	11	1.16	10.42	11.58	9.63	81.3	
Q1983-01	OR-636-COMP-01	12	1.16	10.07	11.23	10.1	88.8	
Q1983-02	OR-636-VOC-01	13	1.18	10.23	11.41	9.74	83.7	
Q1983-03	OR-636-01	14	1.16	9.92	11.08	9.73	86.4	
Q1983-04	OR-636-02	15	1.19	10.30	11.49	10.15	87.0	
Q1983-05	OR-636-03	16	1.15	9.56	10.71	9.77	90.2	
Q1983-07	OR-636-COMP-02	17	1.17	10.61	11.78	10.6	88.9	
Q1983-08	OR-636-VOC-02	18	1.12	10.72	11.84	10.58	88.2	
Q1983-09	OR-636-04	19	1.17	10.05	11.22	9.89	86.8	
Q1983-10	OR-636-05	20	1.19	10.59	11.78	10.78	90.6	
Q1983-11	OR-636-06	21	1.18	10.14	11.32	10.02	87.2	
Q1983-13	OR-636-COMP-03	22	1.14	10.30	11.44	10.75	93.3	
Q1983-14	OR-636-VOC-03	23	1.15	10.36	11.51	10.61	91.3	
Q1983-15	OR-636-07	24	1.16	10.64	11.8	11.39	96.1	
Q1983-16	OR-636-08	25	1.14	10.73	11.87	10.89	90.9	
Q1983-17	OR-636-09	26	1.18	10.44	11.62	10.74	91.6	
Q1983-19	OR-636-COMP-04	27	1.18	10.81	11.99	11.05	91.3	
Q1983-20	OR-636-VOC-04	28	1.15	10.33	11.48	9.6	81.8	

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 5/9/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:20
In Date: 05/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:27
Out Date: 05/09/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135705

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1983-21	OR-636-10	29	1.19	10.51	11.7	10.72	90.7	
Q1983-22	OR-636-11	30	1.19	10.59	11.78	10.5	87.9	
Q1983-23	OR-636-12	31	1.15	10.43	11.58	9.76	82.6	
Q1983-25	OR-636-COMP-05	32	1.17	9.97	11.14	9.07	79.2	
Q1983-26	OR-636-VOC-05	33	1.16	10.04	11.2	9.08	78.9	
Q1983-27	OR-636-13	34	1.14	10.53	11.67	11.04	94.0	
Q1983-28	OR-636-14	35	1.15	10.52	11.67	10.00	84.1	
Q1983-29	OR-636-15	36	1.16	10.35	11.51	9.74	82.9	
Q1983-31	OR-636-COMP-06	37	1.15	9.84	10.99	9.52	85.1	
Q1983-32	OR-636-VOC-06	38	1.17	10.61	11.78	10.78	90.6	
Q1983-33	OR-636-16	39	1.19	9.73	10.92	10.4	94.7	
Q1983-34	OR-636-17	40	1.13	10.55	11.68	10.37	87.6	
Q1983-35	OR-636-18	41	1.18	10.15	11.33	9.59	82.9	
Q1983-37	OR-636-COMP-07	42	1.18	10.44	11.62	10.35	87.8	
Q1983-38	OR-636-VOC-07	43	1.12	10.77	11.89	10.88	90.6	
Q1983-39	OR-636-19	44	1.15	9.66	10.81	9.34	84.8	
Q1983-40	OR-636-20	45	1.18	10.29	11.47	10.21	87.8	
Q1983-41	OR-636-21	46	1.14	10.58	11.72	10.5	88.5	
Q1983-43	OR-636-COMP-08	47	1.15	10.25	11.4	10.45	90.7	
Q1983-44	OR-636-VOC-08	48	1.16	9.97	11.13	10.78	96.5	
Q1983-45	OR-636-22	49	1.13	10.62	11.75	10.91	92.1	
Q1983-46	OR-636-23	50	1.19	9.96	11.15	10.05	89.0	
Q1983-47	OR-636-24	51	1.13	10.33	11.46	11.18	97.3	
Q1983-49	OR-636-COMP-09	52	1.13	10.36	11.49	10.31	88.6	
Q1983-50	OR-636-VOC-09	53	1.19	10.54	11.73	10.1	84.5	
Q1983-51	OR-636-25	54	1.16	10.09	11.25	9.61	83.7	
Q1983-52	OR-636-26	55	1.18	10.11	11.29	9.93	86.5	
Q1983-53	OR-636-27	56	1.16	9.66	10.82	10.34	95.0	

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 5/9/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:20
In Date: 05/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:27
Out Date: 05/09/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135705

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1984-01	OU4-PCS-TC-33-050725	57	1.15	9.96	11.11	10.62	95.1	
Q1984-03	OU4-PCS-TC-34-050725	58	1.16	10.82	11.98	11.51	95.7	
Q1984-05	OU4-PCS-TC-35-050725	59	1.19	9.50	10.69	10.16	94.4	
Q1984-07	OU4-TS-24-050725	60	1.15	10.00	11.15	8.12	69.7	
Q1984-09	OU4-TS-25-050725	61	1.17	10.51	11.68	8.32	68.0	
Q1984-11	OU4-TS-26-050725	62	1.17	10.18	11.35	7.29	60.1	
Q1984-13	OU4-TS-27-050725	63	1.16	9.67	10.83	7.2	62.5	
Q1984-15	OU4-TS-28-050725	64	1.16	9.98	11.14	7.61	64.6	
Q1986-01	COMP-8	65	1.18	10.04	11.22	10.5	92.8	
Q1986-03	COMP-9	66	1.18	10.05	11.23	10.44	92.1	
Q1986-05	COMP-10	67	1.16	9.77	10.93	9.84	88.8	
Q1986-07	COMP-11	68	1.19	10.33	11.52	10.55	90.6	
Q1986-09	COMP-218	69	1.16	10.18	11.34	10.45	91.3	
Q1987-01	GC1	70	1.14	9.89	11.03	9.7	86.6	
Q1990-01	43025-A	71	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1990-02	43025-B	72	1.00	1.00	2.00	2.00	100.0	wipe sample
Q1991-01	1217	73	1.00	1.00	2.00	2.00	100.0	oil sample
Q1991-03	30425	74	1.00	1.00	2.00	2.00	100.0	oil sample

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 135705

WorkList Name : %1-050825 **WorkList ID :** 189376 **Department :** Wet-Chemistry **Date :** 05-08-2025 08:10:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1929-14	WC-A4-02-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	04/30/2025	Chemtech -SO
Q1929-15	WC-A1-03-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	04/30/2025	Chemtech -SO
Q1929-16	WC-A1-04-C	Solid	Percent Solids	Cool 4 deg C	ENTA05	L41	04/30/2025	Chemtech -SO
Q1982-01	TP-1	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1982-02	TP-2B	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1982-03	TP-3	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1982-04	TP-4	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1982-05	TP-5	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1982-06	TP-6	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1982-07	TP-7	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1982-08	TP-8	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1983-01	OR-636-COMP-01	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/07/2025	Chemtech -SO
Q1983-02	OR-636-VOC-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-03	OR-636-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-04	OR-636-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-05	OR-636-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-07	OR-636-COMP-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-08	OR-636-VOC-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-09	OR-636-04	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-10	OR-636-05	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-11	OR-636-06	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO

Date/Time 05108125 1510.00

Raw Sample Received by: [signature] (WQC)

Raw Sample Relinquished by: [signature]

Date/Time 05108125 1730

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature] (WQC)

WORKLIST(Hardcopy Internal Chain)

135705

WorkList Name : %1-050825 **WorkList ID :** 189376 **Department :** Wet-Chemistry **Date :** 05-08-2025 08:10:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1983-13	OR-636-COMP-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-14	OR-636-VOC-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-15	OR-636-07	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-16	OR-636-08	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-17	OR-636-09	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-19	OR-636-COMP-04	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-20	OR-636-VOC-04	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-21	OR-636-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-22	OR-636-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-23	OR-636-12	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-25	OR-636-COMP-05	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-26	OR-636-VOC-05	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-27	OR-636-13	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-28	OR-636-14	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-29	OR-636-15	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-31	OR-636-COMP-06	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-32	OR-636-VOC-06	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-33	OR-636-16	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-34	OR-636-17	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-35	OR-636-18	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-37	OR-636-COMP-07	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO

Date/Time 05/08/25 15:00

Raw Sample Received by: JB WOC

Raw Sample Relinquished by: CP

Date/Time 05/08/25 17:30

Raw Sample Received by: CP

Raw Sample Relinquished by: JB WOC

WORKLIST(Hardcopy Internal Chain)

135705

WorkList Name : %1-050825 **WorkList ID :** 189376 **Department :** Wet-Chemistry **Date :** 05-08-2025 08:10:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1983-38	OR-636-VOC-07	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-39	OR-636-19	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-40	OR-636-20	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-41	OR-636-21	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-43	OR-636-COMP-08	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-44	OR-636-VOC-08	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-45	OR-636-22	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-46	OR-636-23	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-47	OR-636-24	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-49	OR-636-COMP-09	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-50	OR-636-VOC-09	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-51	OR-636-25	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-52	OR-636-26	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1983-53	OR-636-27	Solid	Percent Solids	Cool 4 deg C	PSEG03	L41	05/07/2025	Chemtech -SO
Q1984-01	OU4-PCS-TC-33-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q1984-03	OU4-PCS-TC-34-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q1984-05	OU4-PCS-TC-35-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q1984-07	OU4-TS-24-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q1984-09	OU4-TS-25-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q1984-11	OU4-TS-26-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q1984-13	OU4-TS-27-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO

Date/Time 05/08/25 15:00

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 05/08/25 17:30

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

LB135705

WorkList Name : %1-050825 **WorkList ID :** 189376 **Department :** Wet-Chemistry **Date :** 05-08-2025 08:10:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1984-15	OU4-TS-28-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q1986-01	COMP-8	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	05/08/2025	Chemtech -SO
Q1986-03	COMP-9	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	05/08/2025	Chemtech -SO
Q1986-05	COMP-10	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	05/08/2025	Chemtech -SO
Q1986-07	COMP-11	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	05/08/2025	Chemtech -SO
Q1986-09	COMP-218	Solid	Percent Solids	Cool 4 deg C	PSEG03	L61	05/08/2025	Chemtech -SO
Q1987-01	GC1	Solid	Percent Solids	Cool 4 deg C	GENV01	L41	05/07/2025	Chemtech -SO
Q1990-01	43025-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	05/08/2025	Chemtech -SO
Q1990-02	43025-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	05/08/2025	Chemtech -SO
Q1991-01	1217	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	05/08/2025	Chemtech -SO
Q1991-03	30425	Solid	Percent Solids	Cool 4 deg C	PSEG03	L51	05/08/2025	Chemtech -SO

Date/Time 05/08/25 151.00

Raw Sample Received by: LWOC

Raw Sample Relinquished by:

Date/Time 05/08/25 1730

Raw Sample Received by:

Raw Sample Relinquished by: LWOC

Alliance TECHNICAL GROUP

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/20/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 05/19/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 05/20/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135825

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q1984-19	OU4-TB01-050725	1	1.00	1.00	2.00	2.00	100.0	T.B.
Q2074-01	TP-12	2	1.18	10.28	11.46	9.76	83.5	
Q2074-02	TP-7	3	1.18	10.15	11.33	10.18	88.7	
Q2074-03	TP-15	4	1.13	10.33	11.46	10.12	87.0	
Q2074-04	TP-20	5	1.12	10.65	11.77	10.1	84.3	
Q2074-05	TP-38	6	1.18	10.19	11.37	9.53	81.9	
Q2074-06	TP-19	7	1.16	10.12	11.28	9.85	85.9	
Q2074-07	TP-40	8	1.14	9.89	11.03	9.96	89.2	
Q2074-08	TP-18	9	1.15	10.16	11.31	9.07	78.0	
Q2075-01	SS-10	10	1.16	10.56	11.72	9.59	79.8	
Q2075-02	SS-910	11	1.17	10.05	11.22	9.34	81.3	
Q2075-03	SS-11	12	1.18	10.51	11.69	10.37	87.4	
Q2075-04	Q2075-03MS	13	1.18	10.51	11.69	10.37	87.4	
Q2075-05	Q2075-03MSD	14	1.18	10.51	11.69	10.37	87.4	
Q2075-06	SS-MW1-11.5	15	1.14	10.00	11.14	10.24	91.0	
Q2076-01	OILY-DEBRIS	16	1.00	1.00	2.00	2.00	100.0	oily-debris
Q2080-01	PL-HRH-COMP-01	17	1.13	10.62	11.75	10.32	86.5	
Q2080-02	PL-HRH-VOC-01	18	1.17	10.22	11.39	9.6	82.5	
Q2080-03	PL-HRH-01	19	1.12	10.77	11.89	10.16	83.9	
Q2080-04	PL-HRH-02	20	1.16	10.40	11.56	9.82	83.3	
Q2080-05	PL-HRH-03	21	1.15	10.00	11.15	9.43	82.8	
Q2080-07	PL-HRH-COMP-02	22	1.19	10.46	11.65	9.62	80.6	
Q2080-08	PL-HRH-VOC-02	23	1.14	10.76	11.9	9.8	80.5	
Q2080-09	PL-HRH-04	24	1.16	10.70	11.86	9.55	78.4	
Q2080-10	PL-HRH-05	25	1.19	10.43	11.62	9.52	79.9	
Q2080-11	PL-HRH-06	26	1.13	10.74	11.87	10.2	84.5	
Q2081-01	CAULK	27	1.00	1.00	2.00	2.00	100.0	caluk

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 5/20/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 05/19/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 103
Time OUT: 08:22
Out Date: 05/20/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID- OVEN

QC: LB135825

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 135825

WorkList Name : %1-051925 **WorkList ID :** 189586 **Department :** Wet-Chemistry **Date :** 05-19-2025 08:23:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1984-19	OU4-TB01-050725	Solid	Percent Solids	Cool 4 deg C	NOBI03	L41	05/07/2025	Chemtech -SO
Q2074-01	TP-12	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-02	TP-7	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-03	TP-15	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-04	TP-20	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-05	TP-38	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-06	TP-19	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-07	TP-40	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2074-08	TP-18	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2075-01	SS-10	Solid	Percent Solids	Cool 4 deg C	CAMP02	L31	05/16/2025	Chemtech -SO
Q2075-02	SS-910	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-03	SS-11	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-04	Q2075-03MS	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-05	Q2075-03MSD	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2075-06	SS-MW1-11.5	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/15/2025	Chemtech -SO
Q2076-01	OILY-DEBRIS	Solid	Percent Solids	Cool 4 deg C	CAMP02	L41	05/16/2025	Chemtech -SO
Q2080-01	PL-HRH-COMP-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-02	PL-HRH-VOC-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-03	PL-HRH-01	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-04	PL-HRH-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-05	PL-HRH-03	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO

Date/Time 05-19-25 15:35

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 05-19-25 17:15

Raw Sample Received by:

Raw Sample Relinquished by:

WORKLIST(Hardcopy Internal Chain)

VB 135825

WorkList Name : %1-051925 **WorkList ID :** 189586 **Department :** Wet-Chemistry **Date :** 05-19-2025 08:23:15

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2080-07	PL-HRH-COMP-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-08	PL-HRH-VOC-02	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-09	PL-HRH-04	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-10	PL-HRH-05	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2080-11	PL-HRH-06	Solid	Percent Solids	Cool 4 deg C	PSEG03	L31	05/19/2025	Chemtech -SO
Q2081-01	CAULK	Solid	Percent Solids	Cool 4 deg C	ATCE02	L31	05/19/2025	Chemtech -SO

Date/Time 05.19.25 15:35

Raw Sample Received by:

Raw Sample Relinquished by:

Date/Time 05.19.25 17:15

Raw Sample Received by:

Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB167973

SOP ID: M3541-ASE Extraction-14

Clean Up SOP #: N/A

Matrix : Solid

Weigh By: EH

Balance check: RJ

Balance ID: EX-SC-2

pH Strip Lot#: N/A

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 05/13/2025

Extraction Start Time : 09:05

Extraction End Date : 05/13/2025

Extraction End Time : 12:25

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	SP6782
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2612
Baked Na2SO4	N/A	EP2611
Sand	N/A	EP2865
Methylene Chloride	N/A	E3930
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:

1.5ML Vial Lot # 2210443. Q2014-05 used Limited volume as sample is small particles oily.

KD Bath ID: N/A

KD Bath Temperature: N/A

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/13/25	RS (Bot-Lab)	RC/SVOC
12:30	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB167973

Analytical Method: M3541-ASE Extraction-14

Concentration Date: 05/13/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB167973BL	SBLK973	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			U6-1
PB167973BS	SLCS973	SVOC-TCL BNA -20	30.03	N/A	ritesh	Evelyn	1			2
Q1982-08	TP-9	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E		3
Q1984-01	OU4-PCS-TC-33-050725	SVOCMS Group3	30.03	N/A	ritesh	Evelyn	1	E		4
Q1984-03	OU4-PCS-TC-34-050725	SVOCMS Group3	30.04	N/A	ritesh	Evelyn	1	E		5
Q1984-05	OU4-PCS-TC-35-050725	SVOCMS Group3	30.05	N/A	ritesh	Evelyn	1	E		6
Q1984-07	OU4-TS-24-050725	SVOCMS Group3	30.01	N/A	ritesh	Evelyn	1	E		U1-1
Q1984-09	OU4-TS-25-050725	SVOCMS Group3	30.06	N/A	ritesh	Evelyn	1	E		2
Q1984-11	OU4-TS-26-050725	SVOCMS Group3	30.04	N/A	ritesh	Evelyn	1	E		3
Q1984-13	OU4-TS-27-050725	SVOCMS Group3	30.02	N/A	ritesh	Evelyn	1	E		4
Q1984-15	OU4-TS-28-050725	SVOCMS Group3	30.03	N/A	ritesh	Evelyn	1	E		5
Q2010-01	TP-10	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		6
Q2010-02	TP-13	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1	E		U2-1
Q2010-02MS	TP-13MS	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E		2
Q2010-02MSD	TP-13MSD	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1	E		3
Q2010-03	TP-14	SVOC-TCL BNA -20	30.06	N/A	ritesh	Evelyn	1	E		4
Q2010-04	TP-17	SVOC-TCL BNA -20	30.04	N/A	ritesh	Evelyn	1	E		5
Q2014-01	MOO-25-0134	SVOC-TCL BNA -20	30.05	N/A	ritesh	Evelyn	1	E	Small Particles	6
Q2014-03	MOO-25-0145	SVOC-TCL BNA -20	30.07	N/A	ritesh	Evelyn	1	E	Small Particles	U3-1
Q2014-05	MOO-25-0148	SVOC-TCL BNA -20	10.03	N/A	ritesh	Evelyn	2	E	Small Particles	2
Q2017-01	MH-I	SVOC-TCL BNA -20	50.01	N/A	ritesh	Evelyn	1	E		3
Q2017-05	MH-J	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	A		4

RJ 5/16

RJ 5/13

* **Extracts relinquished on the same date as received.**

167973 9:05

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2010BN **WorkList ID :** 189476 **Department :** Extraction **Date :** 05-13-2025 08:45:20

RJ 5/16

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1982-08	TP-9	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L41	05/07/2025	8270E
Q1984-01	OU4-PCS-TC-33-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-03	OU4-PCS-TC-34-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-05	OU4-PCS-TC-35-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-07	OU4-TS-24-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-09	OU4-TS-25-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-11	OU4-TS-26-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-13	OU4-TS-27-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-15	OU4-TS-28-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q2010-01	TP-10	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L51	05/08/2025	8270E
Q2010-02	TP-13	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L51	05/08/2025	8270E
Q2010-03	TP-14	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L51	05/08/2025	8270E
Q2010-04	TP-17	Solid	SVOC-TCL BNA -20	Cool 4 deg C	CAMP02	L51	05/08/2025	8270E
Q2014-01	MOO-25-0134	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/12/2025	8270E
Q2014-03	MOO-25-0145	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/12/2025	8270E
Q2014-05	MOO-25-0148	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/12/2025	8270E
Q2017-01	MH-I	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/12/2025	8270E
Q2017-05	MH-J	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/12/2025	8270E

Date/Time 05/13/25 9:00
Raw Sample Received by: RJ (CEXL-Lab)
Raw Sample Relinquished by: CP SM

Date/Time 05/13/25 9:35
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (CEXL-Lab)

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB168052

SOP ID:	M3541-ASE Extraction-14				
Clean Up SOP #:	N/A			**Extraction Start Date :**	05/19/2025
Matrix :	Solid			**Extraction Start Time :**	09:45
Weigh By:	EH	**Extraction By:**	RJ	**Extraction End Date :**	05/19/2025
Balance check:	RJ	**Filter By:**	RJ	**Extraction End Time :**	13:00
Balance ID:	EX-SC-2	**pH Meter ID:**	N/A	**Concentration By:**	EH
pH Strip Lot#:	N/A	**Hood ID:**	3,7	**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	SP6782
Surrogate	1.0ML	100/150 PPM	SP6754
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2612
Baked Na2SO4	N/A	EP2611
Sand	N/A	EP2865
Methylene Chloride	N/A	E3930
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:

1.5ML Vial Lot # 2210443, Q2068-01 used Limited volume as sample is small particles oily.

KD Bath ID:	N/A	**Envap ID:**	NEVAP-02
KD Bath Temperature:	N/A	**Envap Temperature:**	40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
5/19/25	RS (Ext lab)	RC/SVOC
13:05	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB168052

Analytical Method: M3541-ASE Extraction-14 **Concentration Date:** 05/19/2025

Sample ID	Client Sample ID	Test	(g)/ mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB168052BL	SBLK052	SVOC-TCL BNA -20	30.02	N/A	ritesh	Evelyn	1			U6-1
PB168052BS	SLCS052	SVOC-TCL BNA -20	30.01	N/A	ritesh	Evelyn	1			2
Q1984-03	OU4-PCS-TC-34-050725	SVOCMS Group3	30.05	N/A	ritesh	Evelyn	1	E		3
Q1984-09	OU4-TS-25-050725	SVOCMS Group3	30.08	N/A	ritesh	Evelyn	1	E		4
Q1984-13	OU4-TS-27-050725	SVOCMS Group3	30.06	N/A	ritesh	Evelyn	1	E		5
Q2062-01	L1-WC-1	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		6
Q2062-05	L1-WC-2	SVOC-TCL BNA -20	50.04	N/A	ritesh	Evelyn	1	E		U1-1
Q2062-09	L1-WC-3	SVOC-TCL BNA -20	50.02	N/A	ritesh	Evelyn	1	D		2
Q2062-13	L1-WC-4	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		3
Q2062-17	L1-WC-5	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	E		4
Q2062-21	L1-WC-6	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		5
Q2068-01	LAW-25-0075	SVOC-TCL BNA -20	10.04	N/A	ritesh	Evelyn	1	E	Oily Small Partical	6
Q2070-01	CONCRETE-PAD-05162025	SVOC-PAH	50.02	N/A	ritesh	Evelyn	1	E	Concrete	U2-1
Q2071-01	L1-WC-7	SVOC-TCL BNA -20	50.08	N/A	ritesh	Evelyn	1	E		2
Q2071-05	L1-WC-8	SVOC-TCL BNA -20	50.09	N/A	ritesh	Evelyn	1	E		3
Q2071-09	L1-WC-9	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		4
Q2071-13	L2-WC-5	SVOC-TCL BNA -20	50.06	N/A	ritesh	Evelyn	1	E		5
Q2071-13MS	L2-WC-5MS	SVOC-TCL BNA -20	50.03	N/A	ritesh	Evelyn	1	E		6
Q2071-13MSD	L2-WC-5MSD	SVOC-TCL BNA -20	50.07	N/A	ritesh	Evelyn	1	E		U1-1
Q2071-17	L2-WC-6	SVOC-TCL BNA -20	50.05	N/A	ritesh	Evelyn	1	E		2

RS 5/19

* **Extracts relinguished on the same date as received.**

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092

RE-EXTRACTION NOTIFICATION

DATE: 5/16/25 Initiated by: RC

Fraction: SVOC

Reason: ✓ Low Surrogate Recovery

____ Other _____

Samples affected:	Matrix	Sample Date	Prep. Batch	Extra Sample Yes No	Verified By	New Prep. Batch
Q1984-03	Solid	May 8	PB167973	YES	RS	PB168052
Q1984-09	"	"	"			
Q1984-13	"	"	"			

RS 5/19

Extraction Supervisor Signature: RS Date: 5/19/25

Form Initiator's Signature: RC Date: 5/16/25

1805
9:45

WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2068 **WorkList ID :** 189593 **Department :** Extraction **Date :** 05-19-2025 09:25:54

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1984-03	OU4-PCS-TC-34-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-09	OU4-TS-25-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q1984-13	OU4-TS-27-050725	Solid	SVOCMS Group3	Cool 4 deg C	NOBI03	L41	05/07/2025	8270E
Q2062-01	L1-WC-1	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/15/2025	8270E
Q2062-05	L1-WC-2	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/15/2025	8270E
Q2062-09	L1-WC-3	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/15/2025	8270E
Q2062-13	L1-WC-4	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/15/2025	8270E
Q2062-17	L1-WC-5	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/15/2025	8270E
Q2062-21	L1-WC-6	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/15/2025	8270E
Q2068-01	LAW-25-0075	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L31	05/16/2025	8270E
Q2070-01	CONCRETE-PAD-05162025	Solid	SVOC-PAH	Cool 4 deg C	PSEG03	L51	05/16/2025	8270E
Q2071-01	L1-WC-7	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/16/2025	8270E
Q2071-05	L1-WC-8	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/16/2025	8270E
Q2071-09	L1-WC-9	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/16/2025	8270E
Q2071-13	L2-WC-5	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/16/2025	8270E
Q2071-17	L2-WC-6	Solid	SVOC-TCL BNA -20	Cool 4 deg C	PSEG03	L41	05/16/2025	8270E

Date/Time 05/19/25 9:40
Raw Sample Received by: RJ (EFL-Lab)
Raw Sample Relinquished by: CP SM

Date/Time 05/19/25 10:05
Raw Sample Received by: CP SM
Raw Sample Relinquished by: RJ (EFL-Lab)

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

Prep Standard - Chemical Standard Summary

Order ID : Q1984

Test : SVOCMS Group3

Prepbatch ID : PB167973,PB168052,

Sequence ID/Qc Batch ID: BP051525,BP052025,

Standard ID :
EP2611,EP2612,EP2865,SP6754,SP6757,SP6769,SP6770,SP6782,SP6783,SP6784,SP6785,SP6786,SP6787,SP6788,SP6789,SP6790,SP6791,

Chemical ID :
10ul/1000ul sample,E3551,E3902,E3904,E3921,E3926,E3930,E3932,S10104,S10399,S10584,S11143,S11162,S11484,S11496,S11650,S11788,S11789,S11790,S11798,S11799,S12115,S12190,S12191,S12192,S12193,S12194,S12195,S12209,S12210,S12211,S12212,S12213,S12214,S12215,S12216,S12271,S12277,S12486,S12488,S12489,S12490,S12491,S12492,S12493,S12494,S12495,S12496,S12534,S12535,S12536,S12537,S12538,S12539,S12540,S12541,S12542,S12577,S12658,S12662,S12664,S12665,S12793,S12974,S12976,S12977,S12978,S12979,S12980,S12981,S12982,S12983,S13078,

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	EP2611	05/09/2025	07/01/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/09/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2612	05/09/2025	11/05/2025	RUPESHKUMAR SHAH	None	None	Riteshkumar Patel 05/09/2025

FROM 8000.00000ml of E3930 + 8000.00000ml of E3932 = Final Quantity: 16000.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
19	8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID	SP6754	03/18/2025	09/18/2025	Rahul Chavli	None	None	Jagrut Upadhyay 04/03/2025

FROM 1930.00000ml of E3902 + 2.60000ml of S12216 + 2.70000ml of S12195 + 5.20000ml of S12210 + 5.30000ml of S12192 + 5.30000ml of S12194 + 5.30000ml of S12209 + 5.30000ml of S12211 + 5.30000ml of S12212 + 5.30000ml of S12213 + 5.40000ml of S12190 + 5.40000ml of S12214 + 5.60000ml of S12191 + 5.60000ml of S12215 + 5.70000ml of S12193 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6757	03/31/2025	09/30/2025	Rahul Chavli	None	None	Jagrut Upadhyay 04/01/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
18	Second Source Calibration Stock Standard, 100 PPM, (8270/625/CLP)	SP6769	04/10/2025	09/10/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025

FROM 0.04000ml of S12195 + 0.08000ml of S12216 + 0.10000ml of S11788 + 0.20000ml of S12486 + 0.20000ml of S12534 + 0.20000ml of S12974 + 1.18000ml of E3926 = 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	SP6770	04/10/2025	09/10/2025	Jagrut Upadhyay	None	None	Sohil Jodhani 04/16/2025

FROM 0.01000ml of S12658 + 0.60000ml of E3926 + 0.40000ml of SP6769 = 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
171	8270/625 Spike Solution, 50/100 PPM	SP6782	04/30/2025	05/31/2025	Rahul Chavli	None	None	Jagrut Upadhyay 05/15/2025

FROM 0.10000ml of S12488 + 0.20000ml of S12534 + 0.20000ml of S12983 + 0.40000ml of S10399 + 0.40000ml of S10584 + 0.40000ml of S11143 + 0.40000ml of S11484 + 0.40000ml of S11650 + 0.50000ml of S12542 + 0.80000ml of S12974 + 1.00000ml of S12496 + 1.10000ml of S11789 + 1.10000ml of S12492 + 1.20000ml of S11799 + 1.20000ml of S12491 + 1.20000ml of S12493 + 1.20000ml of S12976 + 1.20000ml of S12980 + 1.20000ml of S12982 + 1.30000ml of S11798 + 1.30000ml of S12490 + 1.30000ml of S12495 + 1.30000ml of S12535 + 1.30000ml of S12537 + 1.30000ml of S12538 + 1.30000ml of S12540 + 1.30000ml of S12541 + 1.30000ml of S12979 + 1.30000ml of S12981 + 1.40000ml of S11790 + 1.40000ml of S12489 + 1.40000ml of S12494 + 1.40000ml of S12536 + 1.40000ml of S12539 + 1.40000ml of S12977 + 1.40000ml of S12978 + 163.00000ml of E3921 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3764	8270/625 Stock solution 100 ng	SP6783	05/05/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.26700ml of S10104 + 0.40000ml of S11496 + 0.50000ml of S12115 + 1.00000ml of S11162 + 1.00000ml of S12271 + 1.00000ml of S12277 + 1.00000ml of S12793 + 1.00000ml of S13078 + 3.83300ml of E3930 = Final Quantity: 10.000 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
413	80 ng BNA ICC, 80 PPM	SP6784	05/05/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.01000ml of S12662 + 0.20000ml of E3930 + 0.80000ml of SP6783 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
412	60 ng BNA ICC, 60 PPM	SP6785	05/05/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.01000ml of S12662 + 0.40000ml of E3930 + 0.60000ml of SP6783 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
411	50 ng BNA ICC, 50 PPM	SP6786	05/05/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.01000ml of S12662 + 0.50000ml of E3930 + 0.50000ml of SP6783 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
410	40 ng BNA ICC, 40 PPM	SP6787	05/05/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.01000ml of S12662 + 0.60000ml of E3930 + 0.40000ml of SP6783 = Final Quantity: 1.010 ml

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

SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3678	20 ng BNA ICC, 20 PPM	SP6788	05/05/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.01000ml of S12662 + 0.80000ml of E3930 + 0.20000ml of SP6783 = 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	SP6789	05/05/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.01000ml of S12662 + 0.95000ml of E3930 + 0.05000ml of SP6783 = 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	SP6790	05/05/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.01000ml of S12662 + 0.90000ml of E3930 + 0.10000ml of SP6783 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
175	2.5 ng BNA ICC, 2.5 PPM	SP6791	05/05/2025	06/21/2025	Jagrut Upadhyay	None	None	Rahul Chavli 05/16/2025

FROM 0.01000ml of S12662 + 0.50000ml of E3930 + 0.50000ml of SP6789 = 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 #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	09/18/2025	03/18/2025 / RUPESH	02/12/2025 / RUPESH	E3902

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-9254-03 / Acetone, Ultra Resi (cs/4x4L)	6789	09/24/2025	03/14/2025 / Rajesh	03/13/2025 / Rajesh	E3921

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	10/08/2025	04/08/2025 / Rajesh	02/07/2025 / Rajesh	E3926

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	02/20/2026	05/02/2025 / RUPESH	03/09/2025 / RUPESH	E3930

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

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	555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4]	A0185300	05/31/2025	04/30/2025 / Rahul	05/18/2022 / Christian	S10399

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	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	05/05/2025 / Jagrut	03/06/2023 / Christian	S11162

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3]	A0200549	10/30/2025	04/30/2025 / Rahul	08/10/2023 / yogesh	S11484

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	10/28/2025	04/28/2025 / Jagrut	08/11/2023 / Yogesh	S11496

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

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	09/10/2025	03/10/2025 / anahy	11/21/2023 / Rahul	S11788

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	10/25/2025	04/25/2025 / Jagrut	11/21/2023 / Rahul	S11789

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	10/30/2025	04/30/2025 / Rahul	11/21/2023 / Rahul	S11790

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	A0200655	10/30/2025	04/30/2025 / Rahul	11/21/2023 / rahul	S11798

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	A0200655	10/30/2025	04/30/2025 / Rahul	11/21/2023 / rahul	S11799

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	10/28/2025	04/28/2025 / Jagrut	03/08/2024 / Rahul	S12115

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12190

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12191

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12192

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12193

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12194

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12195

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12209

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12210

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12211

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12212

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12213

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12214

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12215

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	09/18/2025	03/18/2025 / anahy	03/15/2024 / Rahul	S12216

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	10/28/2025	04/28/2025 / Jagrut	05/24/2024 / Rahul	S12271

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-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	495833	11/05/2025	05/05/2025 / Jagrut	05/24/2024 / Rahul	S12277

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	09/10/2025	03/10/2025 / anahy	07/23/2024 / RAHUL	S12486

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	10/25/2025	04/25/2025 / Jagrut	07/23/2024 / RAHUL	S12488

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	10/30/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12489

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	10/30/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12490

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	10/30/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12491

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	10/30/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12492

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	10/30/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12493

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	10/30/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12494

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	10/30/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12495

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	10/30/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12496

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	10/10/2025	04/10/2025 / Jagrut	07/23/2024 / RAHUL	S12534

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	11/01/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12535

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	11/01/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12536

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	11/01/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12537

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	11/01/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12538

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	11/01/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12539

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	11/01/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12540

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	11/01/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12541

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	10/30/2025	04/30/2025 / Rahul	07/23/2024 / RAHUL	S12542

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,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

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	04/30/2030	04/07/2025 / anahy	09/20/2024 / anahy	S12658

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	11/01/2025	05/01/2025 / Rahul	09/20/2024 / anahy	S12662

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	11/12/2025	05/12/2025 / Rahul	09/20/2024 / anahy	S12664

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

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	11/16/2025	05/16/2025 / Rahul	09/20/2024 / anahy	S12665

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	05/05/2025 / Jagrut	05/24/2024 / Rahul	S12793

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	09/10/2025	03/10/2025 / anahy	12/11/2024 / anahy	S12974

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	09/30/2025	04/30/2025 / Rahul	12/11/2024 / anahy	S12976

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	09/30/2025	04/30/2025 / Rahul	12/11/2024 / anahy	S12977

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	09/30/2025	04/30/2025 / Rahul	12/11/2024 / anahy	S12978

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	09/30/2025	04/30/2025 / Rahul	12/11/2024 / anahy	S12979

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	09/30/2025	04/30/2025 / Rahul	12/11/2024 / anahy	S12980

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	09/30/2025	04/30/2025 / Rahul	12/11/2024 / anahy	S12981

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	09/30/2025	04/30/2025 / Rahul	12/11/2024 / anahy	S12982

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	09/30/2025	04/30/2025 / Rahul	12/11/2024 / anahy	S12983

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)	525551	11/05/2025	05/05/2025 / Jagrut	03/10/2025 / anahy	S13078

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

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 05/19/22

S10393 to S10402

Catalog No. : 555871 **Lot No.:** A0185300

Description : Custom 4-Nitrophenol Standard

Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2025 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	4-Nitrophenol	25,060.0 µg/mL	+/- 231.9100 µg/mL	Gravimetric
	CAS # 100-02-7 (Lot MKCN1089)		+/- 753.2622 µg/mL	Unstressed
	Purity 99%		+/- 905.6020 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Katelyn McGinnis - Operations Tech I

Date Mixed: 16-May-2022 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Gravimetric Certificate

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 07/05/22 S 10583 to S 10592

Catalog No. : 555868 **Lot No.:** A0186373

Description : Custom Benzidine Standard

Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Benzidine	25,200.0 µg/mL	+/- 233.2055 µg/mL	Gravimetric
	CAS # 92-87-5 (Lot 220511RSR)		+/- 351.6606 µg/mL	Unstressed
	Purity 99%		+/- 512.6054 µg/mL	Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckar - Mix Technician

Date Mixed: 16-Jun-2022 **Balance:** 1122030677

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555869 **Lot No.:** A0194702

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	Hexachlorocyclopentadiene	77-47-4	0012019	99%	25,008.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023 **Balance:** B442140311

Manufactured under Restek Registered Quality Certificate #FM

tified Reference Material Notes

es:

n date valid for unopened ampul stored in compliance with the recommended conditions.

nty, concentration, and expiration of the CRM are based on the unopened product being stored according to the ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, LC/MS, RI, and/or melting point.

nds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the mpound in solution.

isomeric compounds is reported as the sum of the isomers.

lues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

erage factor of 2, which gives a level of confidence of approximately 95%.

ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through ion displayed on the product label and certificate. Contact Restek for additional opened product stability ı, with the knowledge/understanding that open product stability is subject to the specific handling and ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with ards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RG-02-01, Ed. 3

Recd. by RP on 7/24/23 E3551

PO: PO2-798 PRODUCT CODE: SHIP DATE: 12/9/2024

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

E 3902

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

PO: PO2-1308 PRODUCT CODE: SHIP DATE: 2/7/25

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 3926

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

E3930

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials,LLC
100 Matsonford Rd, Suite 200,Radnor,PA,19087.U.S.A.Phone 610.386.1700

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 RS

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

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

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. : 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

S11484 ↓ S11493 Y.P. 08/10/23

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: Thomas C Tipton

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.)

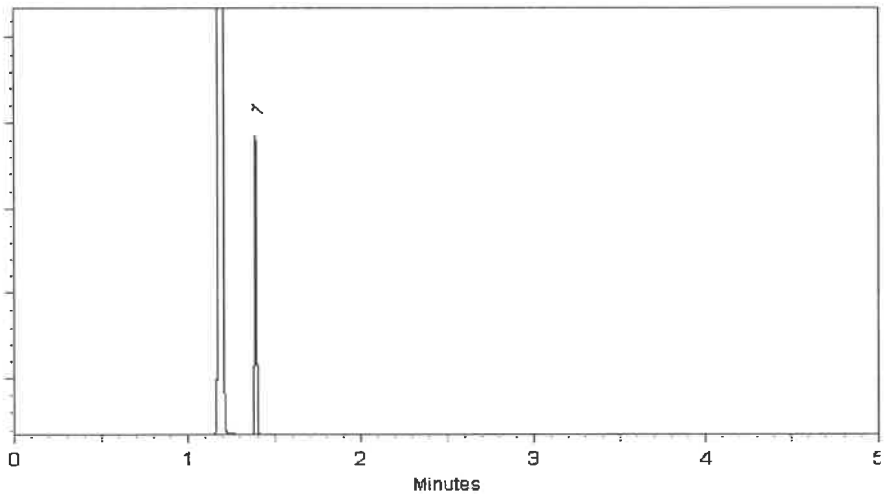
Inj. Temp:
250°C

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.)

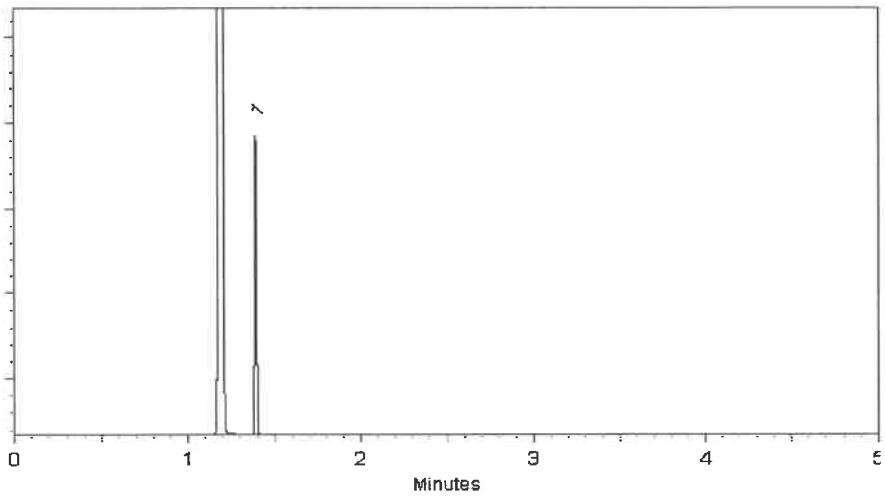
Inj. Temp:
250°C

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.)

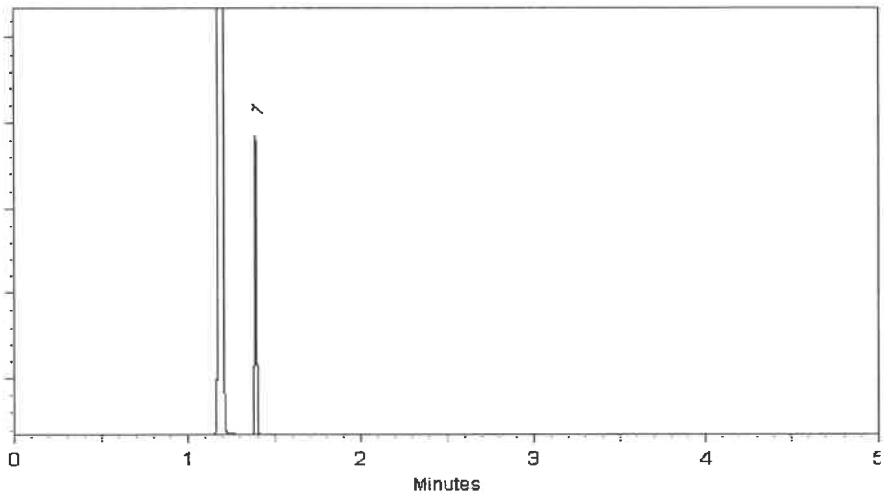
Inj. Temp:
250°C

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

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. : 31853 **Lot No.:** A0200655

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11795 ↓ S11808 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	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* 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.)

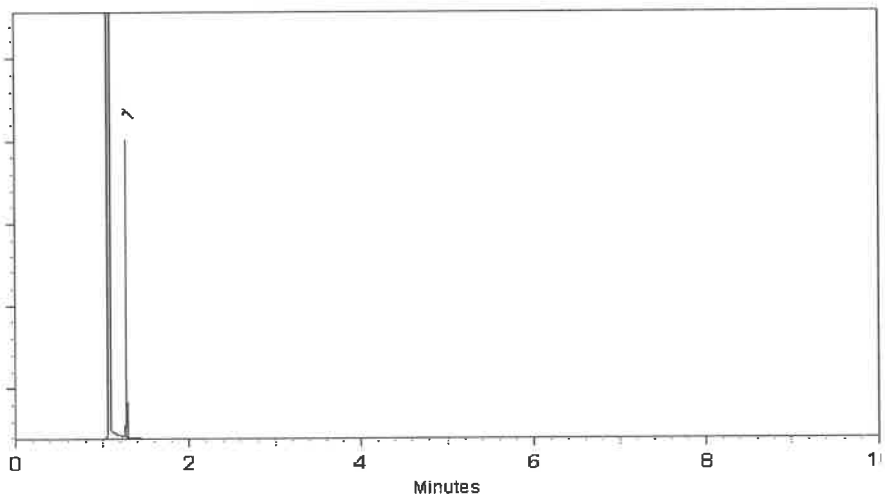
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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

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. : 31853 **Lot No.:** A0200655

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11795 ↓ S11808 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	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* 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.)

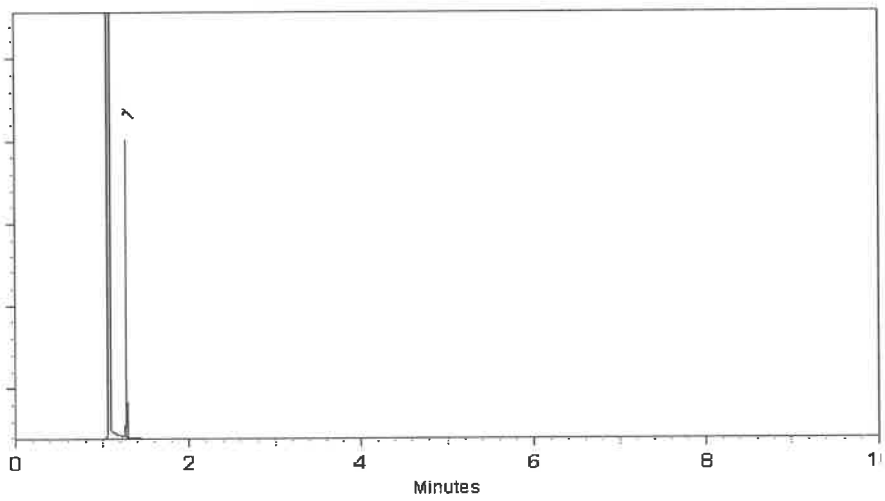
Inj. Temp:
250°C

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.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-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. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

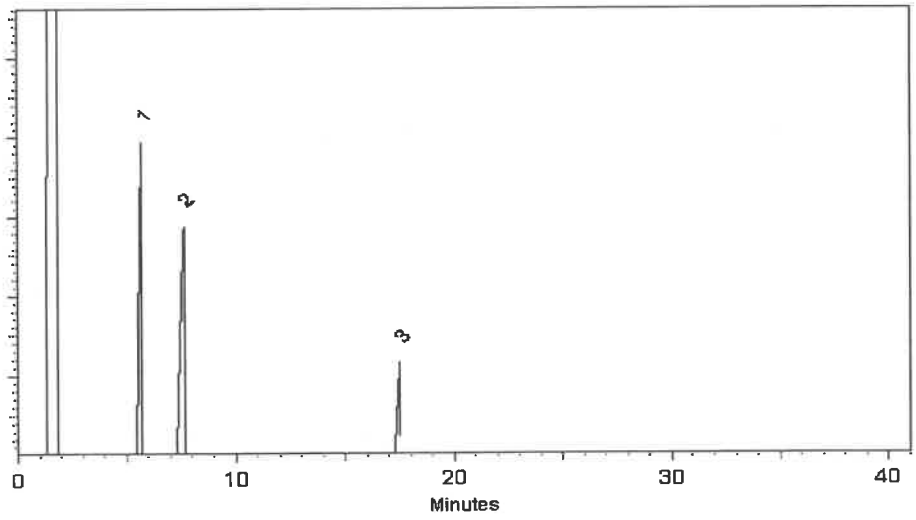
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

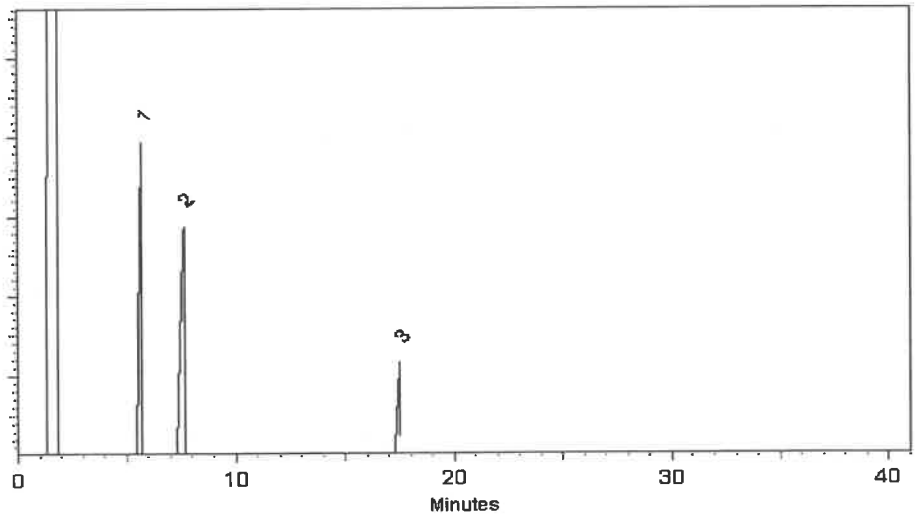
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

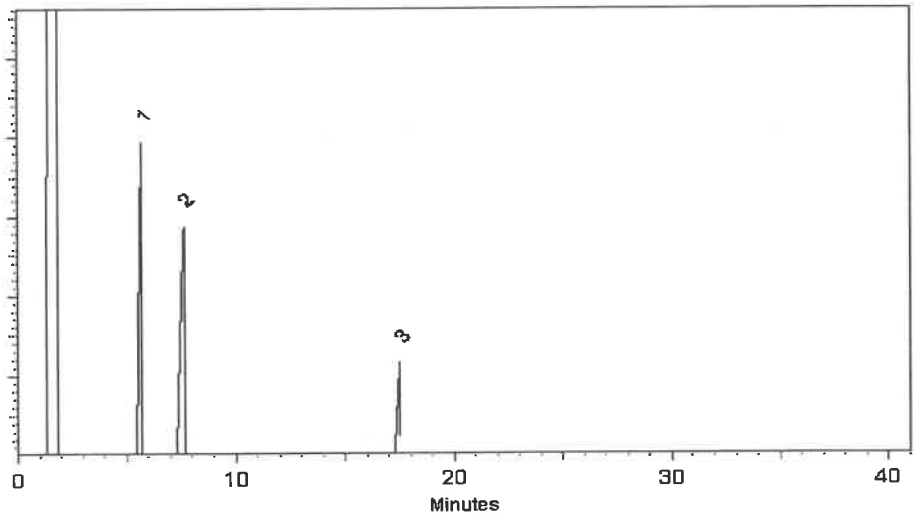
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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

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.)

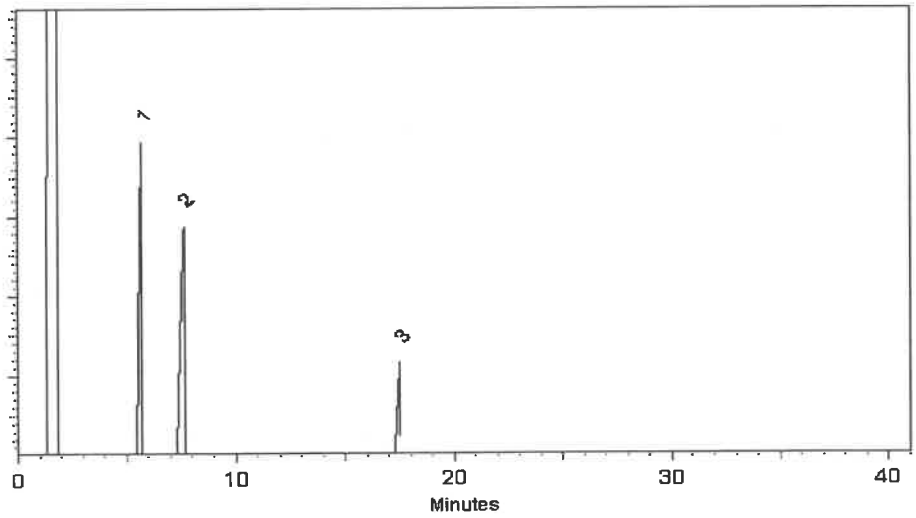
Inj. Temp:
250°C

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.)

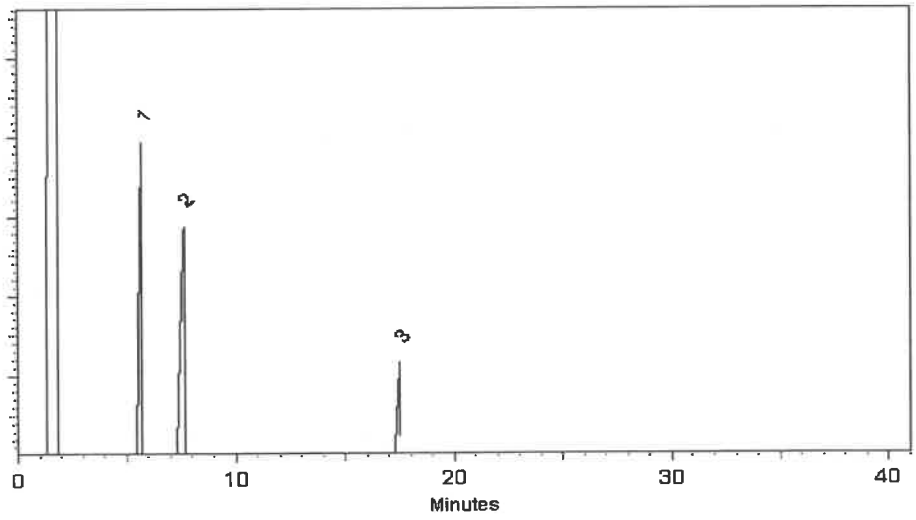
Inj. Temp:
250°C

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

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.)

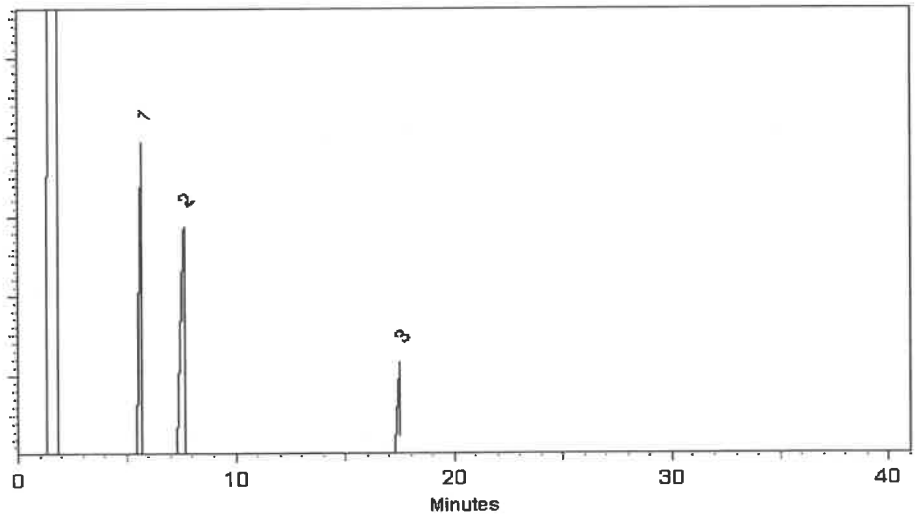
Inj. Temp:
250°C

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

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

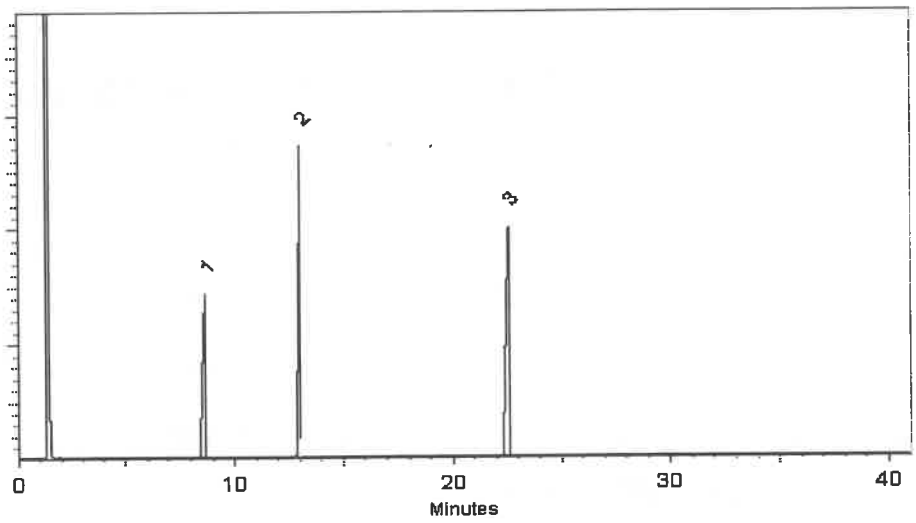
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

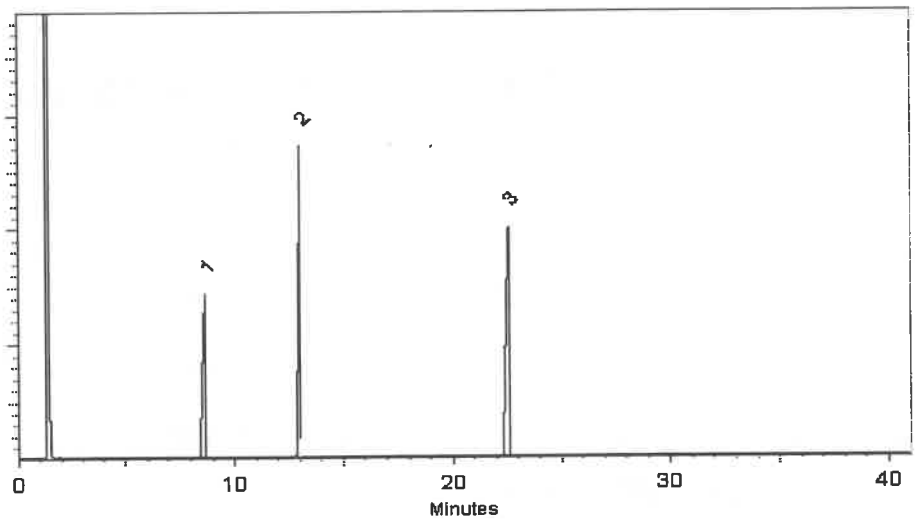
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

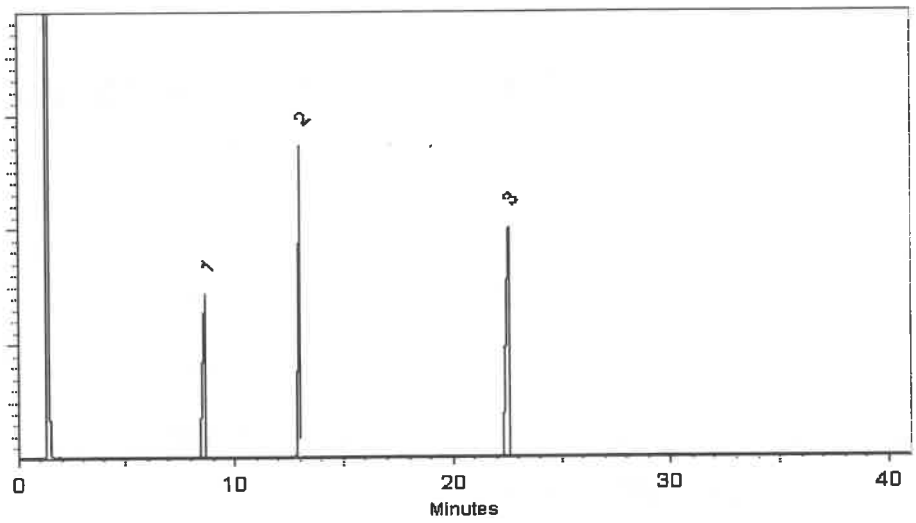
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

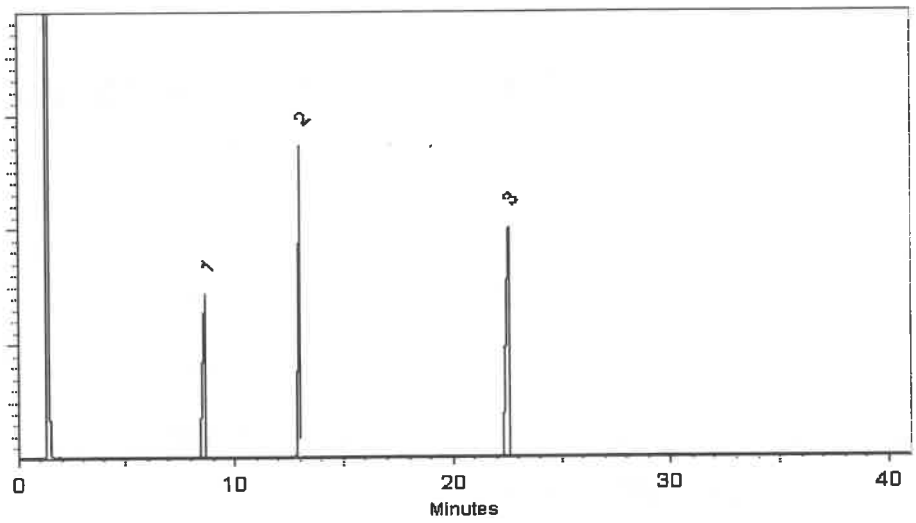
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

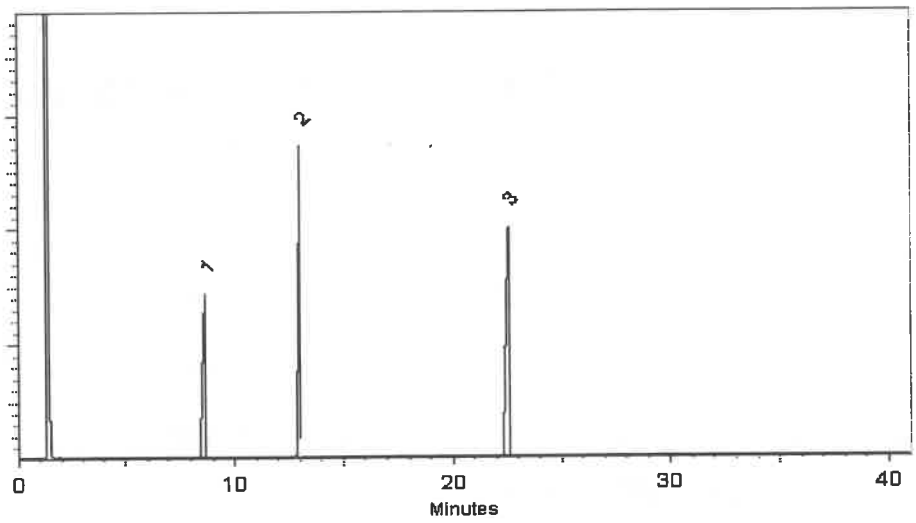
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

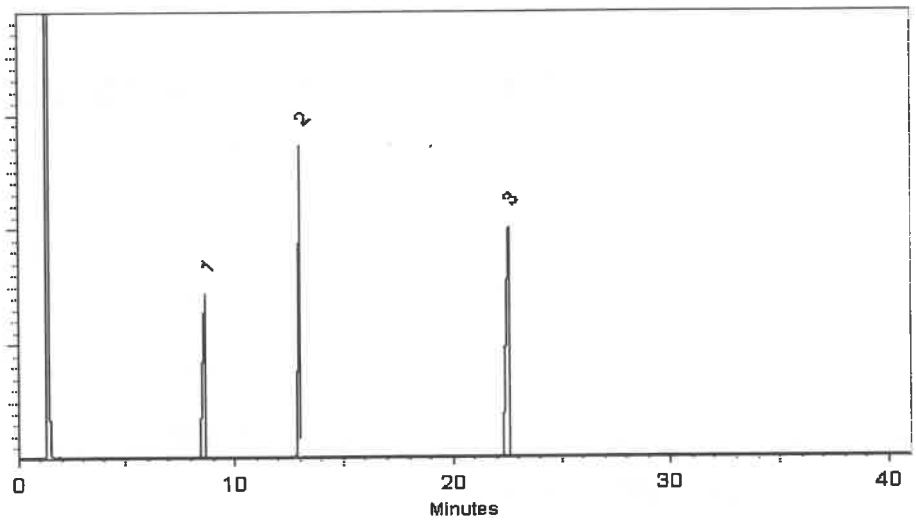
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

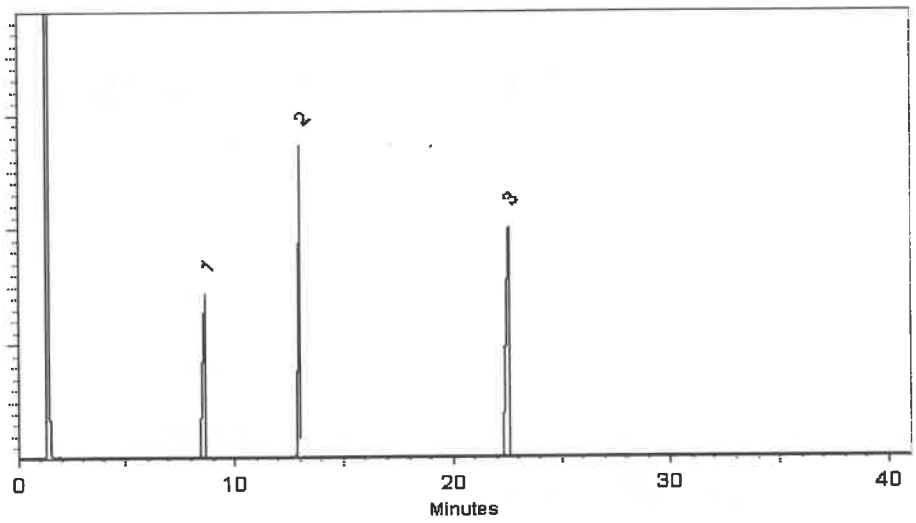
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

S12207 ↓ S12221 RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

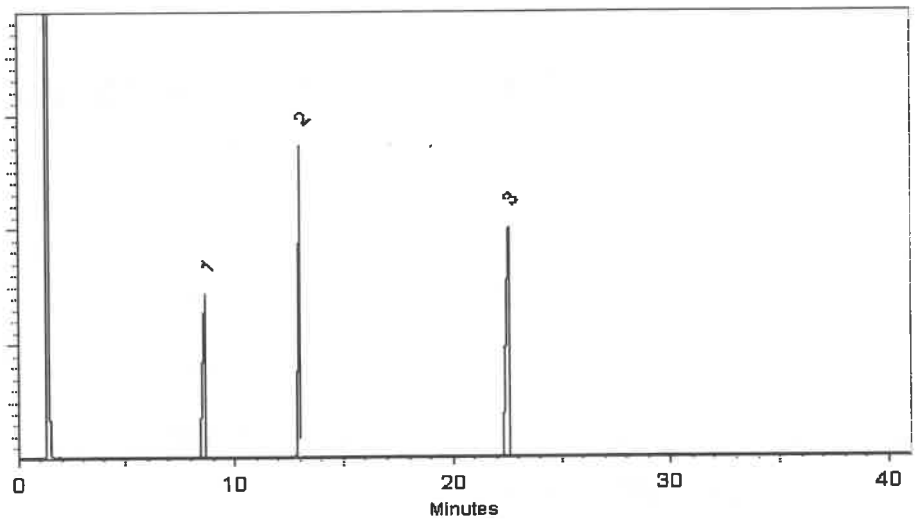
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

S12270 ↓ S12274 } RC 05/24/24

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 520963 **Expiration Date:** 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value

Certified By: Kerry E Kane

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	495833	≤ -10 °C	Methylene Chloride	1/16/2028	Benzaldehyde Solution, 1000 mg/L, 1.3 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
benzaldehyde	100-52-7	98.3	442.421.1P	996.8 ± 11.49

S12275 ↓ S12279 } RC/ 05/24/24

*Not a certified value

Certified By: S. Hunter

Scott Hunter
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricllly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0214021

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S240326RSR	99%	1,004.0 µg/mL	+/- 23.0487
2	Atrazine	1912-24-9	5FYWL	99%	1,005.0 µg/mL	+/- 23.0717
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 23.0947
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,000.0 µg/mL	+/- 22.9569

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12449 ↓ S12508 RC 7/24/24

Rebecca Gingerich - Operations Tech II

Date Mixed: 18-Jul-2024 **Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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

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

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

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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31615 **Lot No.:** A0212955

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 : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577 ↓ S12579 } RC 8/2/24

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.)

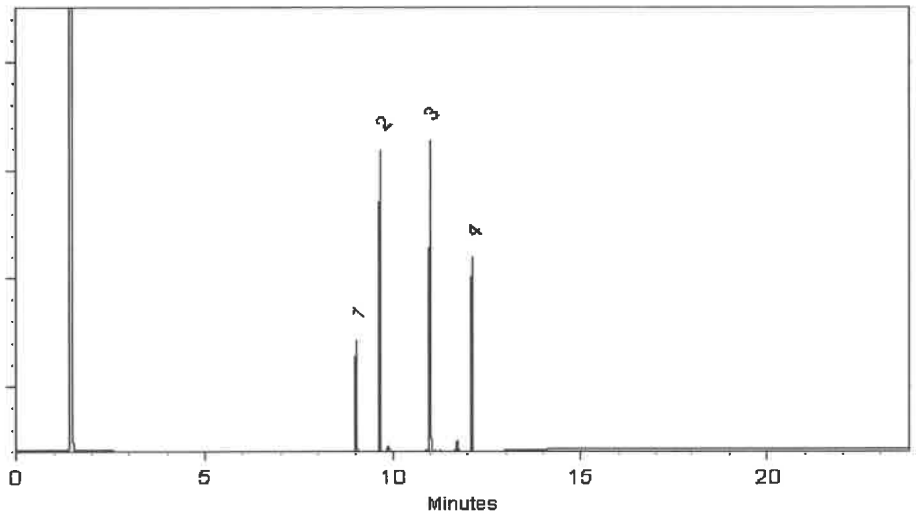
Inj. Temp:
250°C

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.

Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674
AC
10/1/24

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

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

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

Certificate of Analysis

chromatographic plus

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645 ↓ S12674 AC 10/1/24

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

S12963 → S12992 AC 12/17/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12963 → S12992 AC 12/17/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12963 ↓ S12992 AC 12/17/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963 ↓ S12992 AC 12/17/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

S12963 → S12992 AC 12/17/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCCK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCCK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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	525551	-18°C +/- 4°C	Methylene Chloride	9/3/2029	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	97.9	74.421.2P	994.7 ± 30.56

This RM is intended for use as a calibration standard or a quality control standard for chromatography equipment such as GC, GC/MS, HPLC, and HPLC/MS. It may also be used for various USEPA, NIOSH and ASTM methods.

Recommended storage container for ampuled products after opening is a 12 mm x 32 mm amber vial with screw cap Teflon lined silicon septum. The modeled % change per day can be calculated using the following:

$$\% \text{ Change} = 116192x^{-2.578} + 40.383e^{-0.03y}$$

where x = boiling point of the most volatile analyte in the mix (in degrees K)
y = boiling point of the solvent (in degrees K)

This model assumes the container is stored at -10 °C and is unopened during storage. The user should determine what the acceptable error for their process is and calculate the maximum number of days the opened ampule should be stored. The minimum sample size recommended for use is 1µL.

S13078 ↓ S13087 } AC 3/10/25

Manufactured by

Raevyn Steele
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.

*Not a certified valu

SHIPPING DOCUMENTS

Q1984

Chemtech

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

http://www.contestlabs.com

CHAIN OF CUSTODY RECORD

Doc # 381 Rev 4_01/08/2020

39 Spruce Street
East Longmeadow, MA 01028

Page __1__ of __1__

Company Name:	Nobis Group
Address:	55 Technology Dr Suite 101, Lowell, MA 01851
Phone:	978-703-6014
Project Name:	Raymark
Project Location:	Stratford, CT
Project Number:	95700
Project Manager:	Adam Roy
Con-Test Quote Name/Number:	
Invoice Recipient:	
Sampled By:	C. Odell

Requested Turnaround Time
5-Day ☐ 10-Day ☑
PFAS 10-Day (std) ☐ Due Date:

Rush Approval Required
1-Day ☐ 3-Day ☐
2-Day ☐ 4-Day ☐

Data Deliverables
Format: PDF ☑ EXCEL ☑
Other:
CLP Like Data Pkg Required: ☐ No
Email To: aroy@nobis-group.com
Fax To #:

Dissolved Metals Samples
○ Field Filtered
○ Lab to Filter

Orthophosphate Samples
○ Field Filtered
○ Lab to Filter

PCB ONLY
SOXHLET ☑
NON SOXHLET ☐

ANALYSIS REQUESTED

Con-Test Work Order#	Client Sample ID / Description	Beginning Date/Time	Ending Date/Time	COMP/GRAB	[1]Matrix Code	Conc Code	VIALS	GLASS	PLASTIC	BACTERIA	ENCORE	M/O	RCP VOCs	% Solids	PAHs	Herbicides	Pesticides	PCBs	Metals ICP + Hg - 6010	Cyanide	SPLP RCP Metals - 6020
	OU4-PCS-TC-33-050725	5/7/25	0950	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-PCS-TC-34-050725	5/7/25	1000	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-PCS-TC-35-050725	5/7/25	1015	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-24-050725	5/7/25	1130	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-25-050725	5/7/25	1135	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-26-050725	5/7/25	1140	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-27-050725	5/7/25	1145	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TS-28-050725	5/7/25	1150	G	S		3	2	1				X	X	X	X	X	X	X	X	X
	OU4-TB01-050725 ↓		0800	—	—		3						X								

[2] Preservation Code

Total Number Of:
VIALS
GLASS
PLASTIC
BACTERIA
ENCORE

Glassware in the fridge? Y / N

Glassware in freezer? Y / N

Prepackaged Cooler? Y / N

*Contest is not responsible for missing samples from prepacked coolers

[1] Matrix Codes:
GW = Ground Water
WW = Waste Water
DW = Drinking Water
A = Air
S = Soil
SL = Sludge
SOL = Solid
O = Other (please define)

[2] Preservation Codes:
I = Iced
H = HCL
M = Methanol
N = Nitric Acid
S = Sulfuric Acid
B = Sodium Bisulfate
X = Sodium Hydroxide
T = Sodium Thiosulfate
O = Other (please define)

Relinquished by: (signature)	Date/Time: 5/7/25 1430	Client Comments:
Received by: (signature)	Date/Time: 5-8-25 0930	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	
Relinquished by: (signature)	Date/Time:	
Received by: (signature)	Date/Time:	

Detection Limit Requirements
MA
CT
Other

Special Requirements
☐ MA MCP Required
MCP Certification Form Required
☑ CT RCP Required
RCP Certification Form Required
☐ MA State DW Required
PWSID #

Please use the following codes to indicate possible sample concentration within the Conc Code column above:
H - High; M - Medium; L - Low; C - Clean; U - Unknown

NELAC and AIHA-LAP, LLC Accredited

Project Entity
Government ☐ Municipality ☐ MWRA ☐ WRTA ☐
Federal ☐ 21 J ☐ School ☐
City ☐ Brownfield ☐ MBTA ☐

Other
☐ Chromatogram
☐ AIHA-LAP,LLC

Lab Comments:
1.9°C
Adjust Factor +1
IL Gun #1

Disclaimer: Con-Test Labs is not responsible for any omitted information on the Chain of Custody. The Chain of Custody is a legal document that must be complete and accurate and is used to determine what analyses the laboratory will perform. Any missing information is not the laboratory's responsibility. Con-Test values your partnership on each project and will try to assist with missing information, but will not be held accountable.

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1984 NOBI03
Client Name : Nobis Group
Client Contact : Adam Roy
Invoice Name : Nobis Group
Invoice Contact : Adam Roy

Order Date : 5/8/2025 10:48:00 AM
Project Name : Raymark Superfund Site
Receive DateTime : 5/8/2025 9:50:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1984-01	OU4-PCS-TC-33-050725	Solid	05/07/2025	09:50					
					VOCMS Group3		8260D	10 Bus. Days	
Q1984-03	OU4-PCS-TC-34-050725	Solid	05/07/2025	10:00					
					VOCMS Group3		8260D	10 Bus. Days	
Q1984-05	OU4-PCS-TC-35-050725	Solid	05/07/2025	10:15					
					VOCMS Group3		8260D	10 Bus. Days	
Q1984-07	OU4-TS-24-050725	Solid	05/07/2025	11:30					
					VOCMS Group3		8260D	10 Bus. Days	
Q1984-09	OU4-TS-25-050725	Solid	05/07/2025	11:35					
					VOCMS Group3		8260D	10 Bus. Days	
Q1984-11	OU4-TS-26-050725	Solid	05/07/2025	11:40					
					VOCMS Group3		8260D	10 Bus. Days	
Q1984-13	OU4-TS-27-050725	Solid	05/07/2025	11:45					
					VOCMS Group3		8260D	10 Bus. Days	
Q1984-15	OU4-TS-28-050725	Solid	05/07/2025	11:50					

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1984 NOBI03
Client Name : Nobis Group
Client Contact : Adam Roy
Invoice Name : Nobis Group
Invoice Contact : Adam Roy

Order Date : 5/8/2025 10:48:00 AM
Project Name : Raymark Superfund Site
Receive DateTime : 5/8/2025 9:50:00 AM
Purchase Order :

Project Mgr :
Report Type : Level 4
EDD Type : EQUIS
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
					VOCMS Group3		8260D	10 Bus. Days		
Q1984-19	OU4-TB01-050725	Water	05/07/2025	08:00						
					VOCMS Group3		~~8260 Low~~ 8260D	10 Bus. Days		

Relinquished By :
Date / Time : 5/8/25 1150

Received By : JC
Date / Time : 5/8/25 1150
Storage Area : VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024615.D
Acq On : 13 May 2025 11:22
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Quant Time: May 13 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.664	152	90088	20.000	ng		0.00
21) Naphthalene-d8	10.434	136	378055	20.000	ng		0.00
39) Acenaphthene-d10	14.293	164	254561	20.000	ng		-0.01
64) Phenanthrene-d10	17.092	188	531548	20.000	ng		0.00
76) Chrysene-d12	21.522	240	614288	20.000	ng		0.00
86) Perylene-d12	24.810	264	724260	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.293	112	51093	9.700	ng		0.00
7) Phenol-d6	6.858	99	58619	8.720	ng		0.00
23) Nitrobenzene-d5	8.811	82	72056	9.630	ng		0.00
42) 2,4,6-Tribromophenol	15.810	330	41219	9.551	ng		0.00
45) 2-Fluorobiphenyl	12.904	172	203719	10.485	ng		0.00
79) Terphenyl-d14	19.822	244	366245	10.223	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.228	88	14435	5.836	ng		95
3) Pyridine	3.646	79	23737	4.328	ng	#	91
4) n-Nitrosodimethylamine	3.546	42	12080	4.989	ng	#	96
6) Aniline	7.011	93	38664	4.455	ng		97
8) 2-Chlorophenol	7.240	128	27022	4.519	ng		93
9) Benzaldehyde	6.828	77	23920	5.506	ng		93
10) Phenol	6.887	94	30912	4.455	ng		98
11) bis(2-Chloroethyl)ether	7.099	93	29668	5.204	ng		97
12) 1,3-Dichlorobenzene	7.552	146	35946	5.225	ng		96
13) 1,4-Dichlorobenzene	7.699	146	35091	5.072	ng		95
14) 1,2-Dichlorobenzene	8.011	146	34458	5.111	ng		99
15) Benzyl Alcohol	7.917	79	19888	3.893	ng		97
16) 2,2'-oxybis(1-Chloropr...	8.193	45	34754	5.090	ng		95
17) 2-Methylphenol	8.116	107	21754	4.371	ng		97
18) Hexachloroethane	8.728	117	13650	5.148	ng		96
19) n-Nitroso-di-n-propyla...	8.464	70	22015	4.734	ng		98
20) 3+4-Methylphenols	8.452	107	27500	4.063	ng		97
22) Acetophenone	8.487	105	45968	4.868	ng	#	99
24) Nitrobenzene	8.852	77	31500	4.784	ng		97
25) Isophorone	9.375	82	60855	4.689	ng		98
26) 2-Nitrophenol	9.569	139	12786	3.963	ng		95
27) 2,4-Dimethylphenol	9.628	122	25830	4.541	ng		92
28) bis(2-Chloroethoxy)met...	9.858	93	38071	4.910	ng		97
29) 2,4-Dichlorophenol	10.122	162	23623	4.285	ng		97
30) 1,2,4-Trichlorobenzene	10.299	180	32699	5.264	ng		99
31) Naphthalene	10.481	128	100564	5.133	ng		100
32) Benzoic acid	9.787	122	1450	7.094	ng	#	86
33) 4-Chloroaniline	10.616	127	32908	4.163	ng		99
34) Hexachlorobutadiene	10.763	225	21834	5.426	ng		95
35) Caprolactam	11.399	113	6817	3.420	ng	#	79
36) 4-Chloro-3-methylphenol	11.746	107	29849	4.440	ng		95
37) 2-Methylnaphthalene	12.099	142	63562	5.011	ng		99
38) 1-Methylnaphthalene	12.316	142	70043	5.160	ng		100
40) 1,2,4,5-Tetrachloroben...	12.469	216	37738	5.105	ng		99
41) Hexachlorocyclopentadiene	12.446	237	15939	3.556	ng		93
43) 2,4,6-Trichlorophenol	12.722	196	19429	4.058	ng		92

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024615.D
Acq On : 13 May 2025 11:22
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Quant Time: May 13 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.816	196	23918	4.488	ng		93
46) 1,1'-Biphenyl	13.116	154	96956	5.153	ng		98
47) 2-Chloronaphthalene	13.157	162	72977	5.087	ng		99
48) 2-Nitroaniline	13.381	65	17778	4.186	ng		98
49) Acenaphthylene	14.010	152	117448	4.892	ng		99
50) Dimethylphthalate	13.751	163	99940	5.151	ng		100
51) 2,6-Dinitrotoluene	13.869	165	19052	4.649	ng	#	85
52) Acenaphthene	14.357	154	70302	5.094	ng		96
53) 3-Nitroaniline	14.222	138	16400	3.920	ng		97
54) 2,4-Dinitrophenol	14.451	184	4700	8.074	ng		95
55) Dibenzofuran	14.698	168	115180	5.232	ng		98
56) 4-Nitrophenol	14.599	139	2698	4.940	ng		86
57) 2,4-Dinitrotoluene	14.675	165	25481	4.411	ng		92
58) Fluorene	15.363	166	93303	5.198	ng		98
59) 2,3,4,6-Tetrachlorophenol	14.946	232	23382	4.729	ng		98
60) Diethylphthalate	15.134	149	101366	5.169	ng		99
61) 4-Chlorophenyl-phenyle...	15.357	204	47886	5.349	ng		98
62) 4-Nitroaniline	15.410	138	10984	2.696	ng		99
63) Azobenzene	15.651	77	84462	5.035	ng		99
65) 4,6-Dinitro-2-methylph...	15.463	198	10171	2.962	ng		89
66) n-Nitrosodiphenylamine	15.575	169	80078	4.905	ng		99
67) 4-Bromophenyl-phenylether	16.275	248	30702	4.902	ng		97
68) Hexachlorobenzene	16.387	284	40234	5.055	ng		99
69) Atrazine	16.551	200	27909	4.664	ng		98
70) Pentachlorophenol	16.757	266	16456	3.681	ng		95
71) Phenanthrene	17.134	178	152030	5.145	ng		99
72) Anthracene	17.234	178	145809	4.904	ng		99
73) Carbazole	17.522	167	122666	4.559	ng		98
74) Di-n-butylphthalate	18.104	149	157014	4.537	ng		99
75) Fluoranthene	19.228	202	168865	4.889	ng		99
77) Benzidine	19.451	184	32514	1.928	ng		98
78) Pyrene	19.604	202	181817	4.940	ng		99
80) Butylbenzylphthalate	20.551	149	70341	4.297	ng		100
81) Benzo(a)anthracene	21.498	228	192110	4.981	ng		99
82) 3,3'-Dichlorobenzidine	21.445	252	54793	3.825	ng		99
83) Chrysene	21.575	228	186449	5.099	ng		99
84) Bis(2-ethylhexyl)phtha...	21.445	149	103286	4.293	ng		97
85) Di-n-octyl phthalate	22.692	149	160883	4.089	ng		99
87) Indeno(1,2,3-cd)pyrene	28.504	276	242814	4.591	ng	#	87
88) Benzo(b)fluoranthene	23.763	252	186058	4.488	ng		97
89) Benzo(k)fluoranthene	23.839	252	207645	4.861	ng		100
90) Benzo(a)pyrene	24.657	252	180157	4.525	ng		99
91) Dibenzo(a,h)anthracene	28.586	278	193373	4.495	ng		98
92) Benzo(g,h,i)perylene	29.651	276	199361	4.660	ng		98

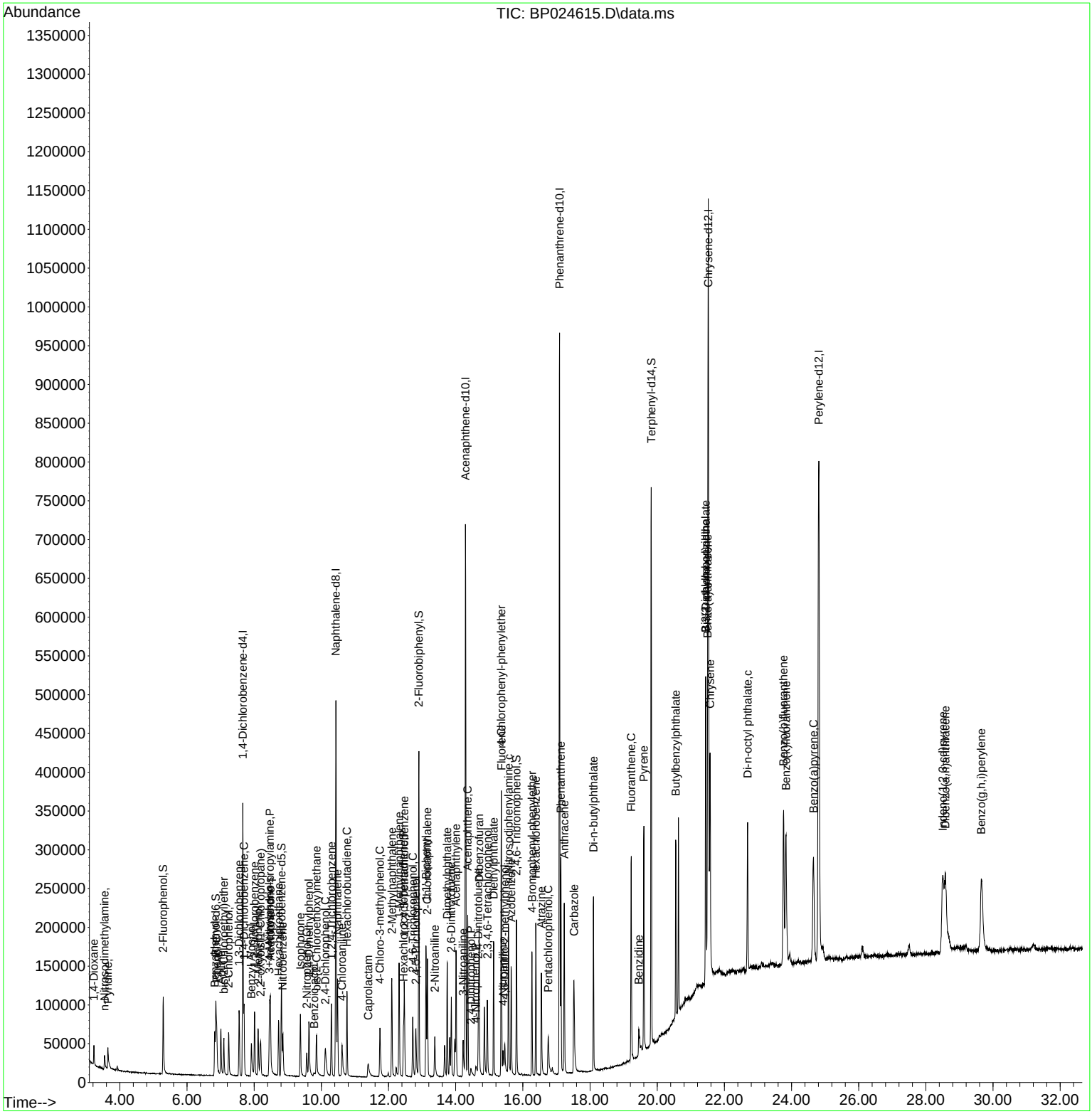
(#) = qualifier out of range (m) = manual integration (+) = signals summed

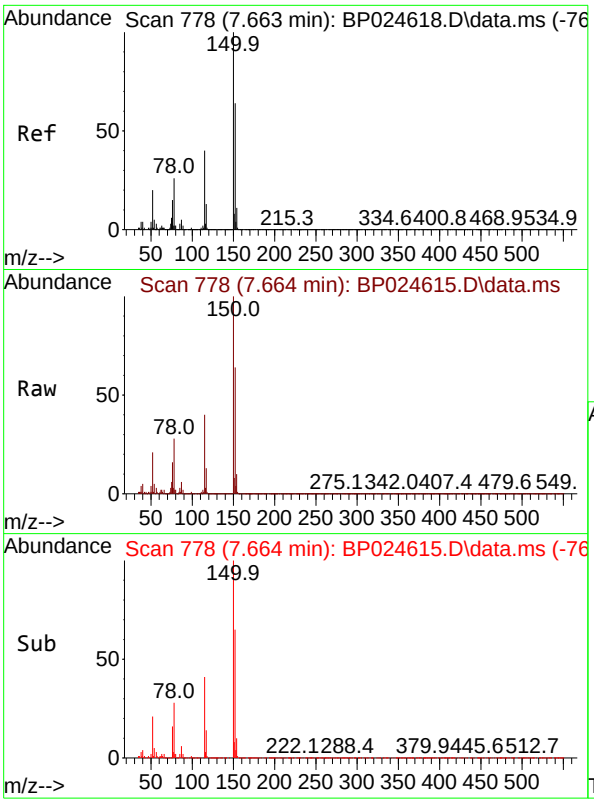
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024615.D
Acq On : 13 May 2025 11:22
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Quant Time: May 13 16:02:50 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration



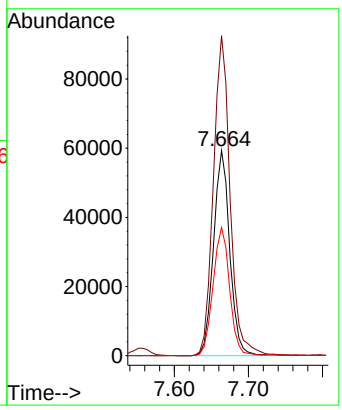


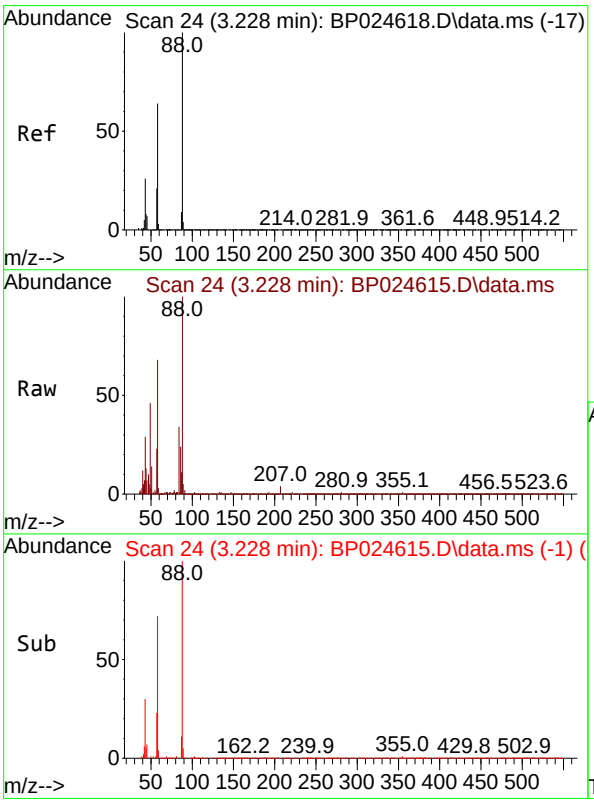
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.664 min Scan# 7
Delta R.T. 0.001 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 90088

Ion	Ratio	Lower	Upper
152	100		
150	156.0	125.9	188.9
115	62.5	50.1	75.1

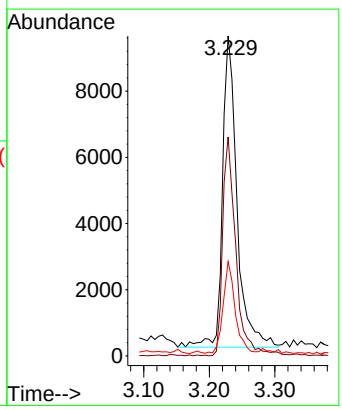


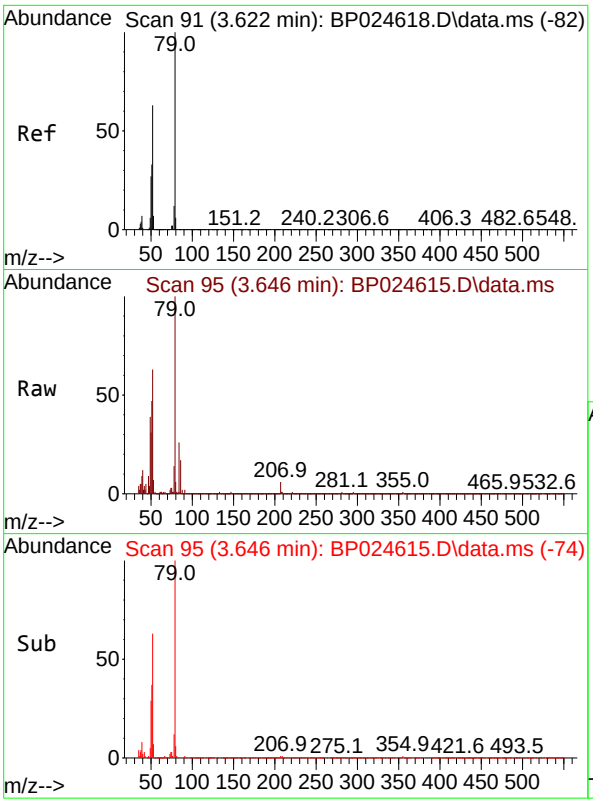


#2
1,4-Dioxane
Concen: 5.836 ng
RT: 3.228 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 88 Resp: 14435

Ion	Ratio	Lower	Upper
88	100		
58	63.6	54.0	81.0
43	24.2	21.4	32.0



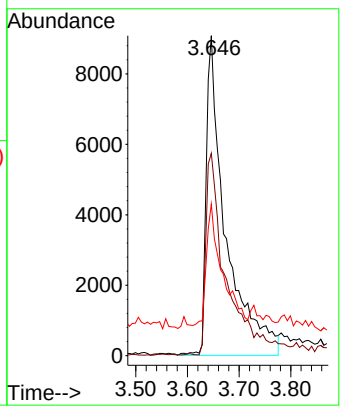


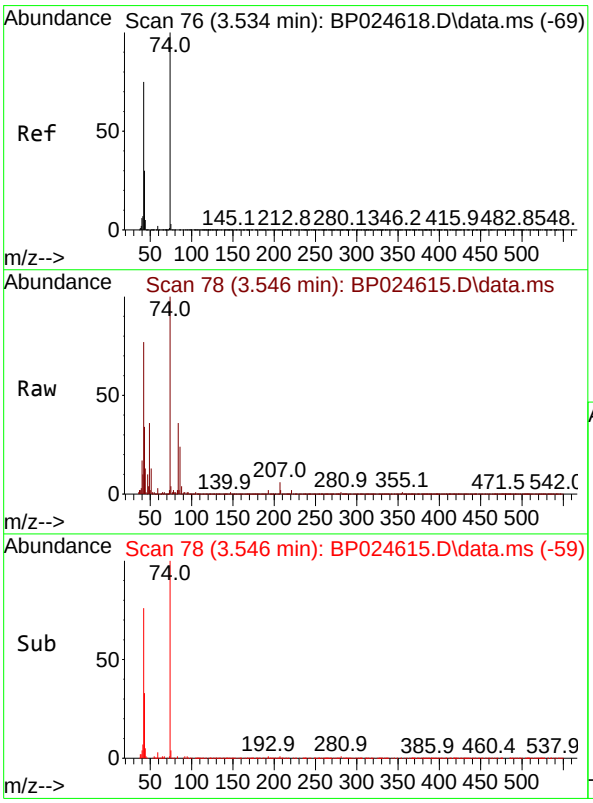
#3
Pyridine
Concen: 4.328 ng
RT: 3.646 min Scan# 9
Delta R.T. 0.024 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 23737

Ion	Ratio	Lower	Upper
79	100		
52	63.2	50.2	75.2
51	47.4	26.8	40.2#

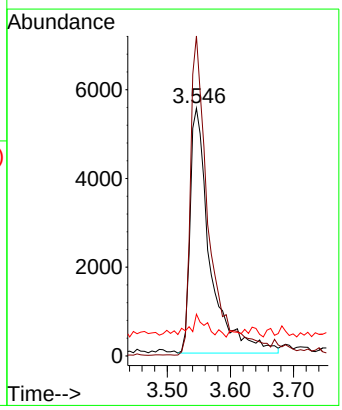


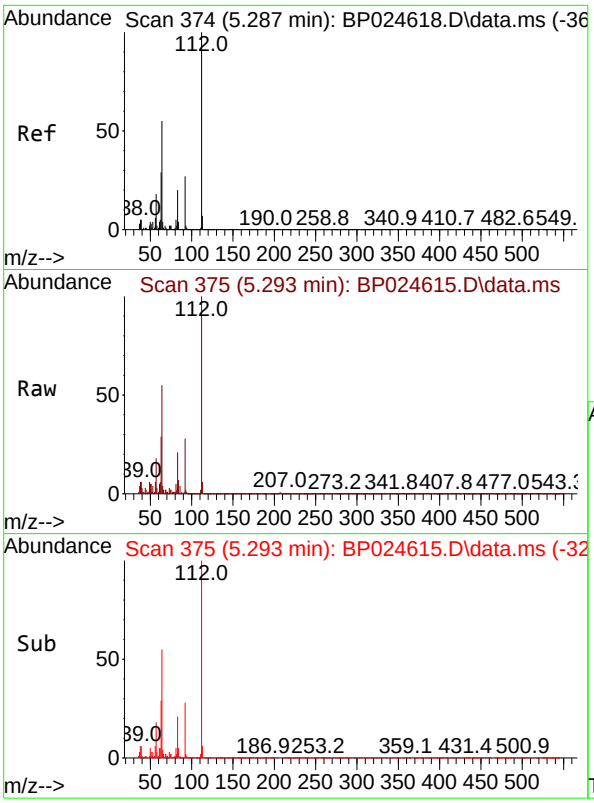


#4
n-Nitrosodimethylamine
Concen: 4.989 ng
RT: 3.546 min Scan# 78
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 42 Resp: 12080

Ion	Ratio	Lower	Upper
42	100		
74	129.2	106.2	159.2
44	16.9	5.4	8.2#



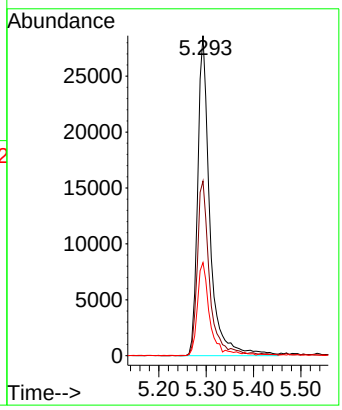


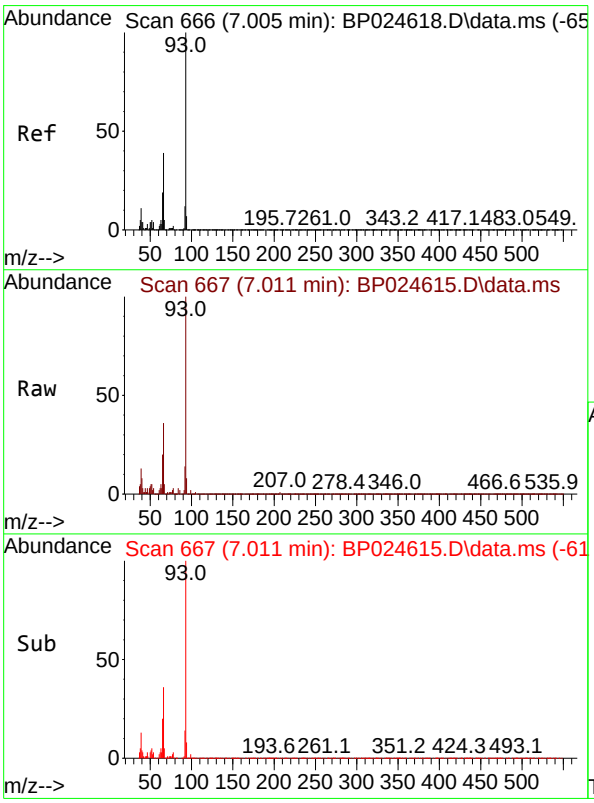
#5
2-Fluorophenol
Concen: 9.700 ng
RT: 5.293 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:112 Resp: 51093

Ion	Ratio	Lower	Upper
112	100		
64	54.6	44.1	66.1
63	29.1	23.5	35.3

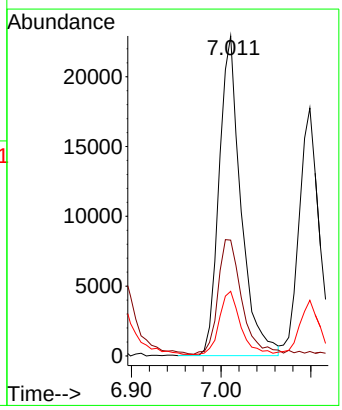


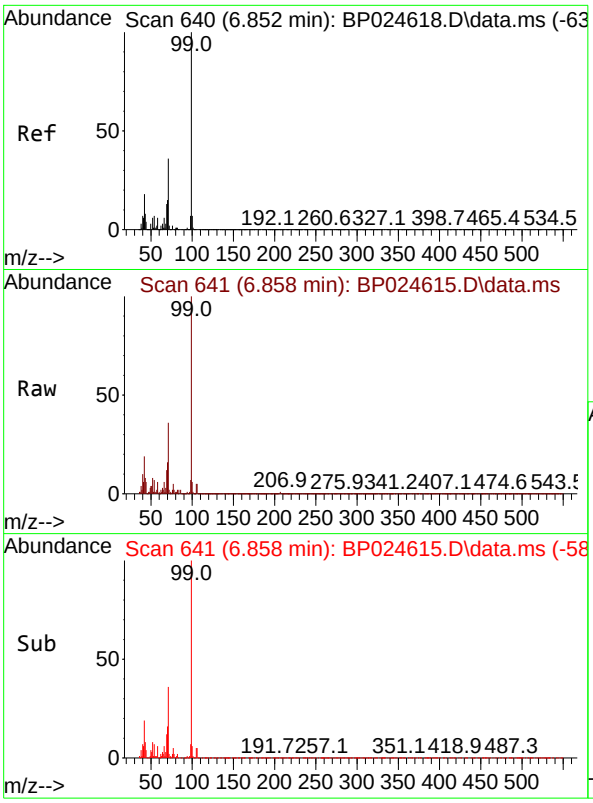


#6
Aniline
Concen: 4.455 ng
RT: 7.011 min Scan# 667
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 93 Resp: 38664

Ion	Ratio	Lower	Upper
93	100		
66	36.2	31.0	46.6
65	20.2	15.5	23.3



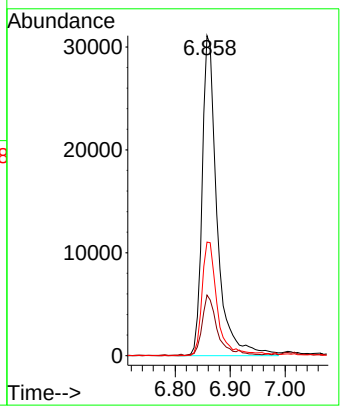


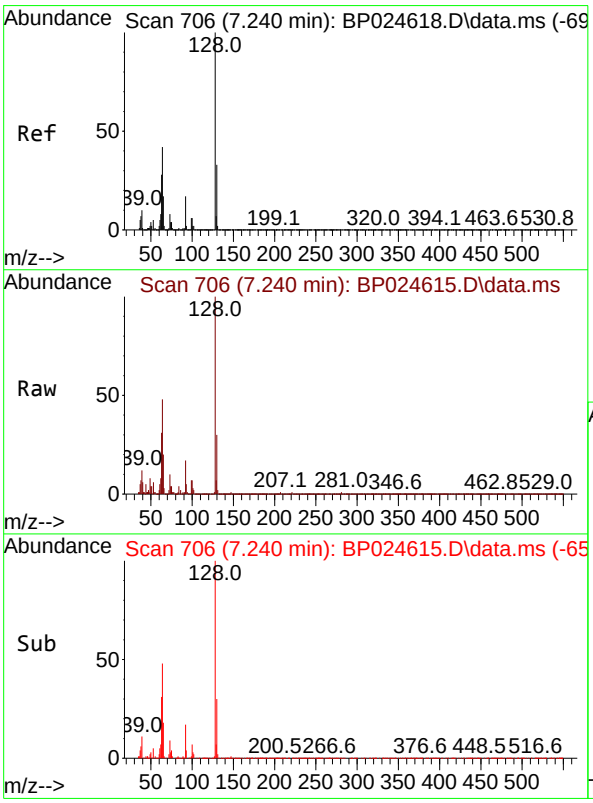
#7
Phenol-d6
Concen: 8.720 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 99 Resp: 58619

Ion	Ratio	Lower	Upper
99	100		
42	18.9	14.4	21.6
71	35.5	29.2	43.8

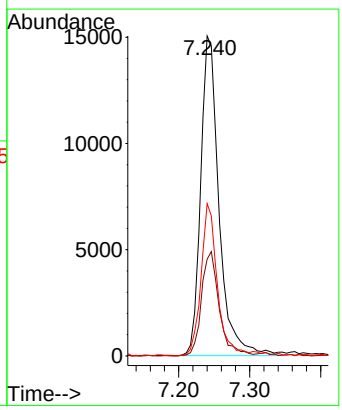


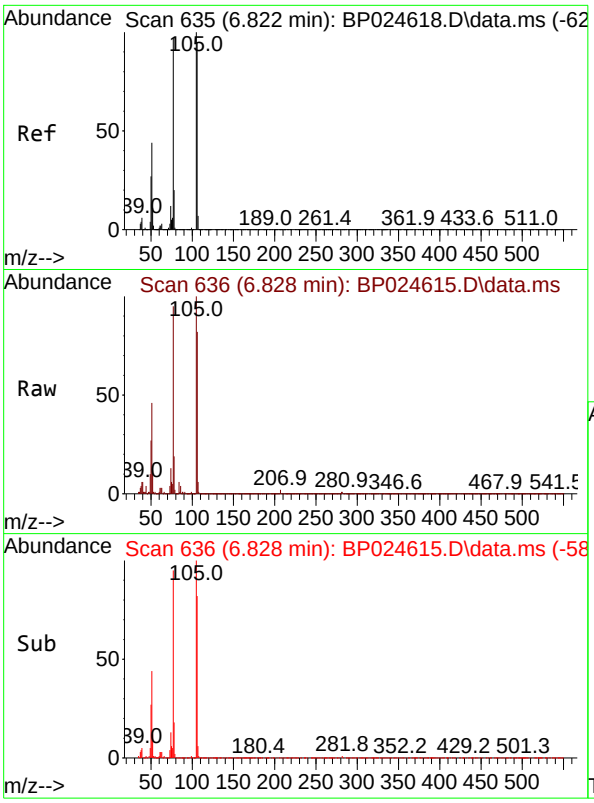


#8
2-Chlorophenol
Concen: 4.519 ng
RT: 7.240 min Scan# 706
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:128 Resp: 27022

Ion	Ratio	Lower	Upper
128	100		
130	30.3	13.0	53.0
64	47.6	22.3	62.3



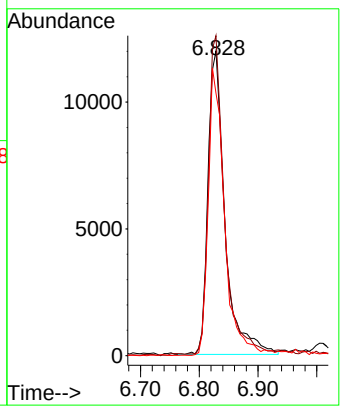


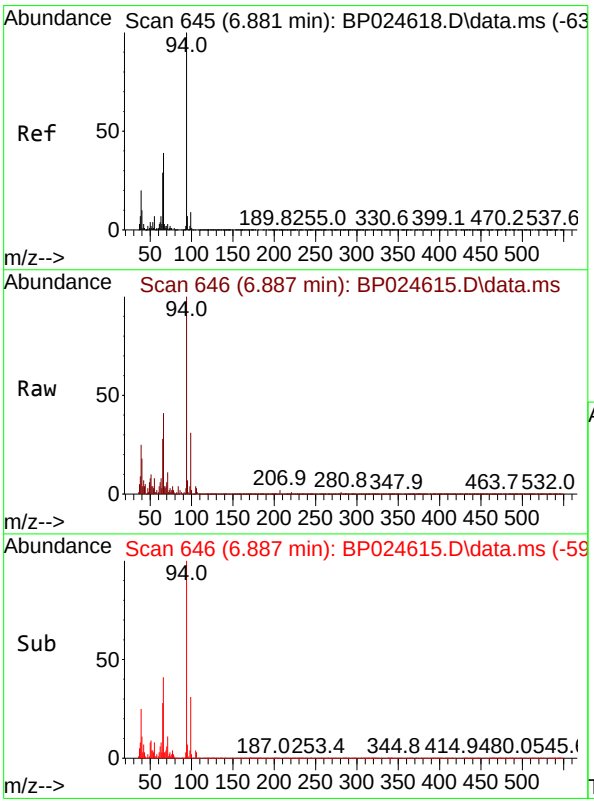
#9
Benzaldehyde
Concen: 5.506 ng
RT: 6.828 min Scan# 6
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 23920

Ion	Ratio	Lower	Upper
77	100		
105	105.0	83.3	123.3
106	86.1	78.0	118.0

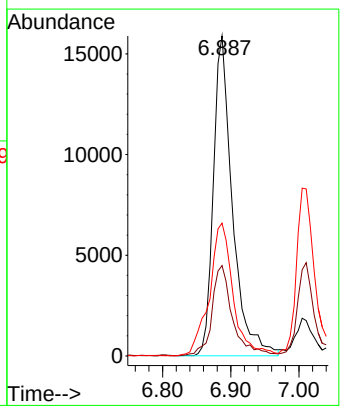


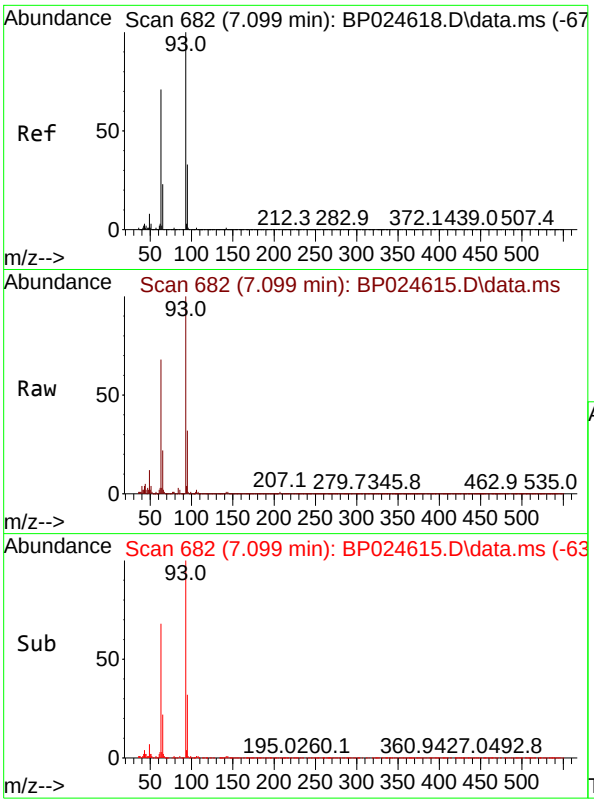


#10
Phenol
Concen: 4.455 ng
RT: 6.887 min Scan# 646
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 94 Resp: 30912

Ion	Ratio	Lower	Upper
94	100		
65	28.2	8.7	48.7
66	41.5	19.4	59.4



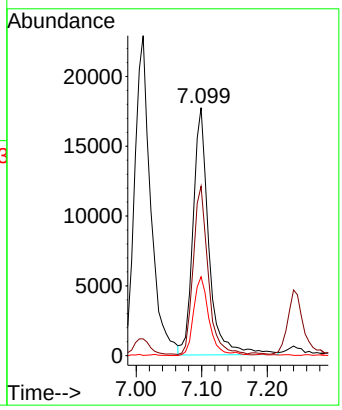


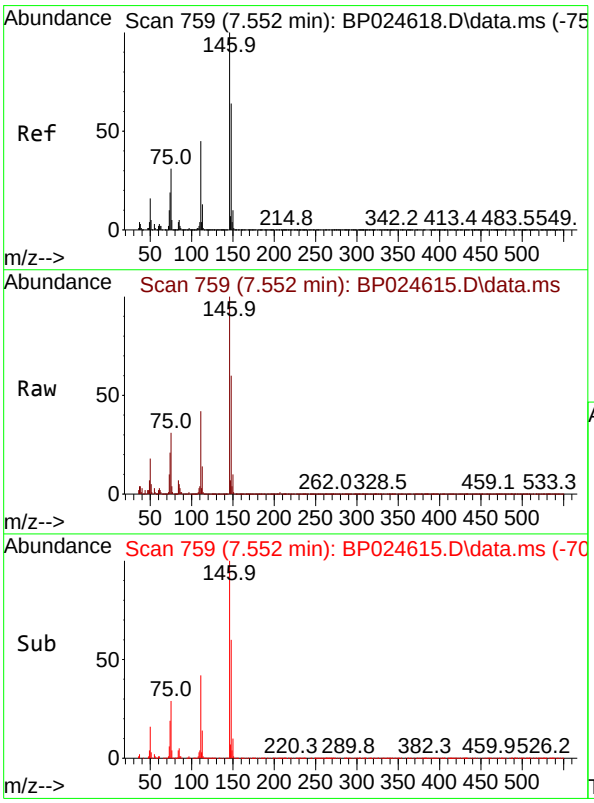
#11
bis(2-Chloroethyl)ether
Concen: 5.204 ng
RT: 7.099 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 29668

Ion	Ratio	Lower	Upper
93	100		
63	68.3	50.6	90.6
95	31.8	12.9	52.9

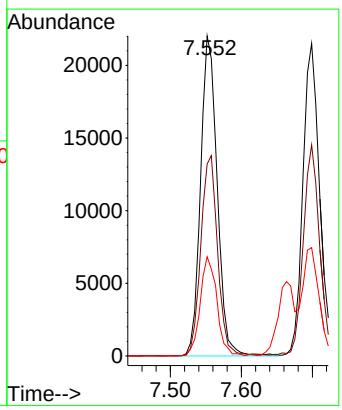


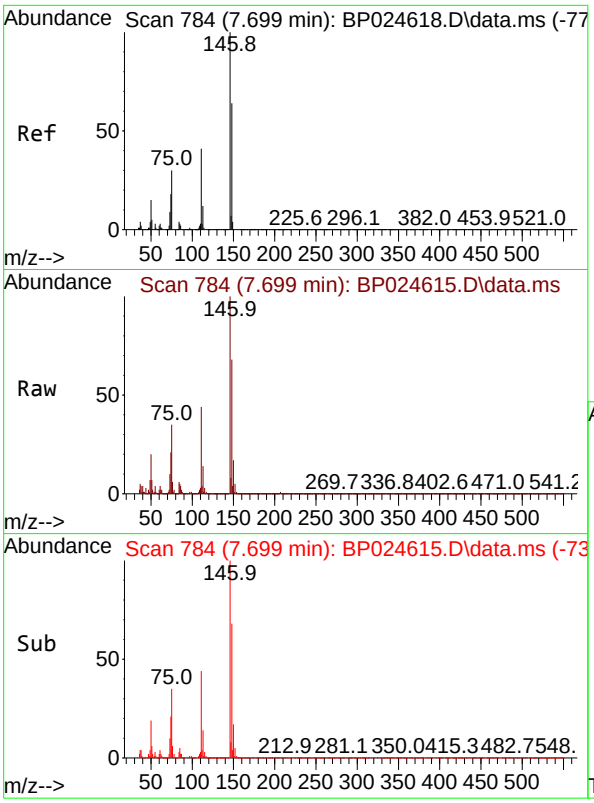


#12
1,3-Dichlorobenzene
Concen: 5.225 ng
RT: 7.552 min Scan# 759
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:146 Resp: 35946

Ion	Ratio	Lower	Upper
146	100		
148	60.0	51.4	77.2
75	31.0	25.2	37.8



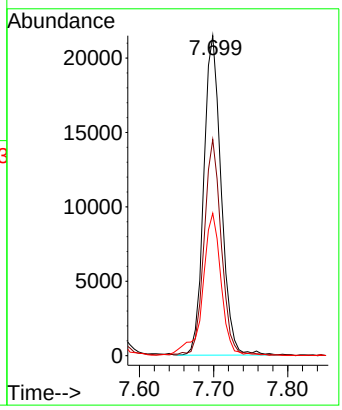


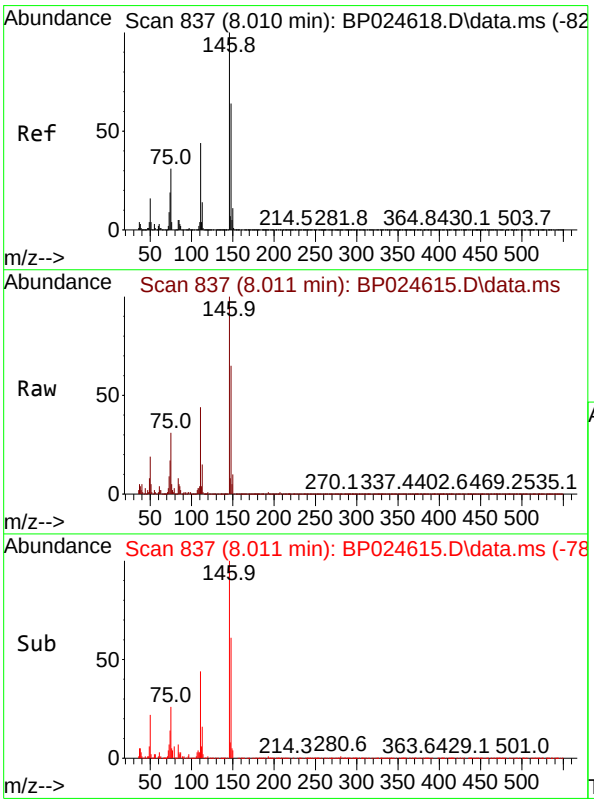
#13
1,4-Dichlorobenzene
Concen: 5.072 ng
RT: 7.699 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 35091

Ion	Ratio	Lower	Upper
146	100		
148	67.6	51.0	76.6
111	44.5	33.0	49.6

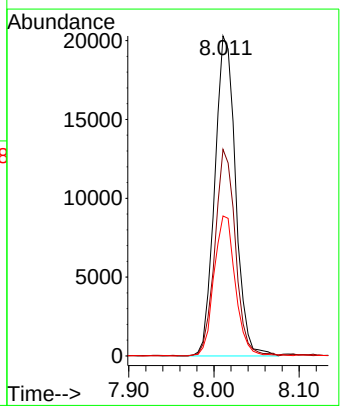


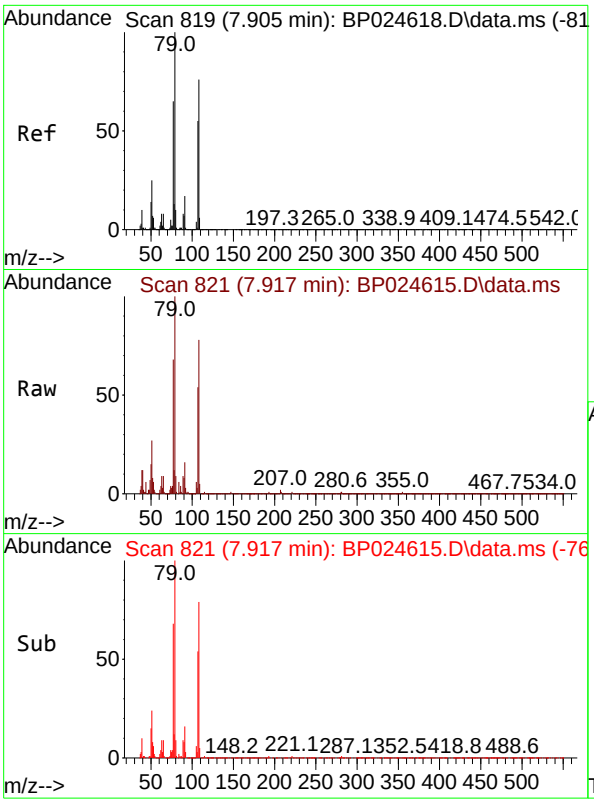


#14
1,2-Dichlorobenzene
Concen: 5.111 ng
RT: 8.011 min Scan# 837
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:146 Resp: 34458

Ion	Ratio	Lower	Upper
146	100		
148	64.6	51.0	76.4
111	43.7	35.2	52.8



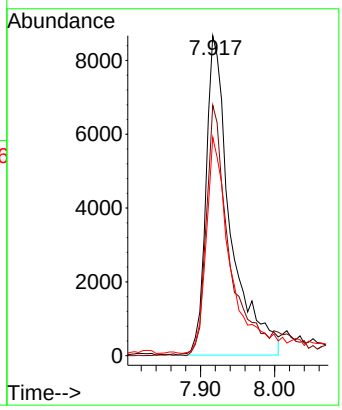


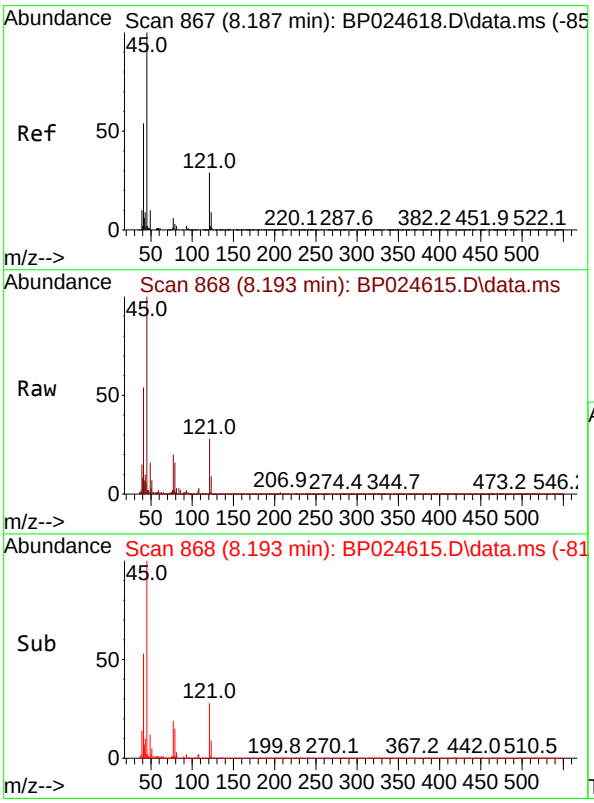
#15
Benzyl Alcohol
Concen: 3.893 ng
RT: 7.917 min Scan# 8
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 19888

Ion	Ratio	Lower	Upper
79	100		
108	78.3	60.8	91.2
77	68.2	51.9	77.9

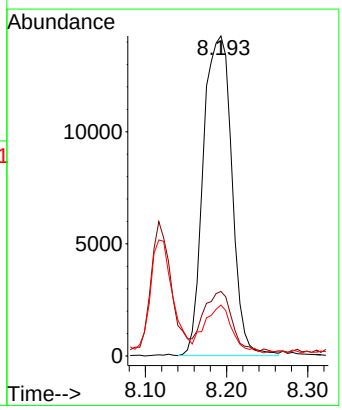


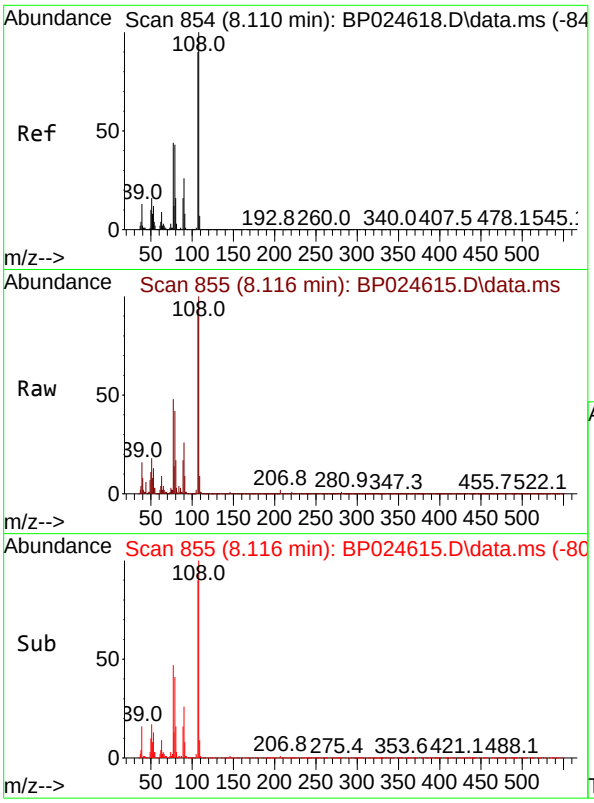


#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.090 ng
RT: 8.193 min Scan# 868
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 45 Resp: 34754

Ion	Ratio	Lower	Upper
45	100		
77	20.2	0.0	37.7
79	15.9	0.0	34.0



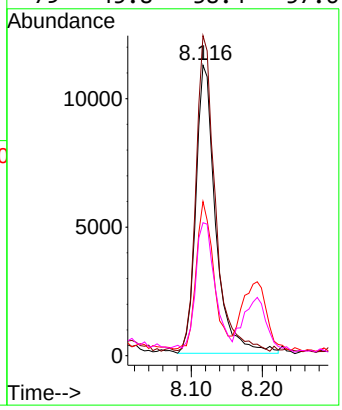


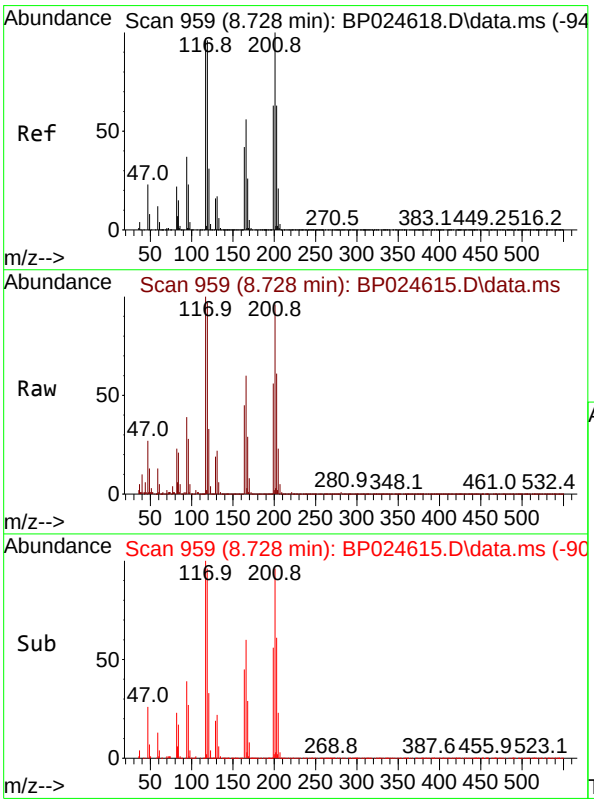
#17
2-Methylphenol
Concen: 4.371 ng
RT: 8.116 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:107 Resp: 21754

Ion	Ratio	Lower	Upper
107	100		
108	110.2	88.9	133.3
77	53.0	39.0	58.6
79	45.8	38.4	57.6

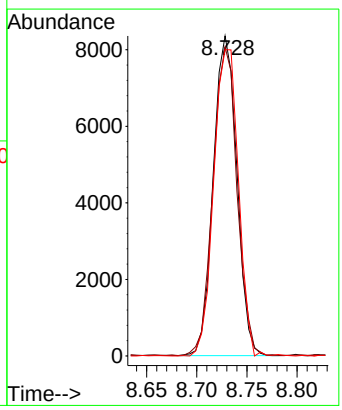


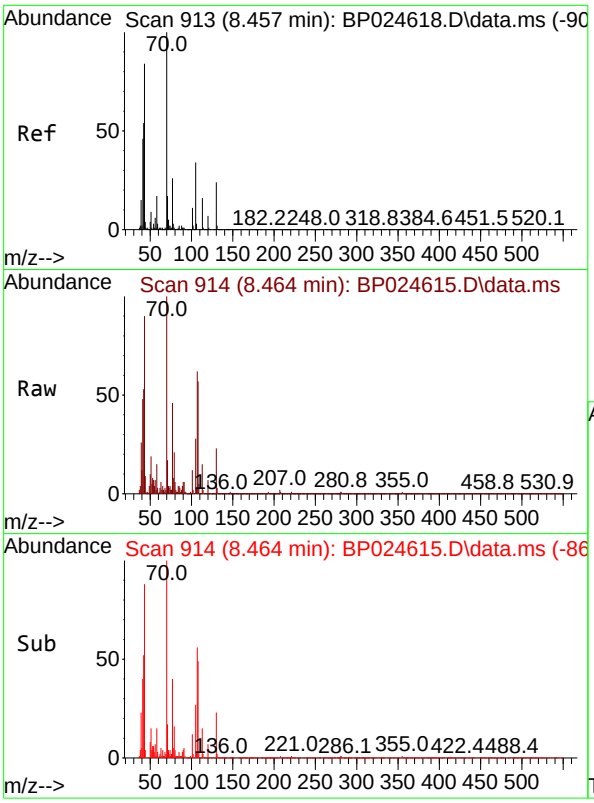


#18
Hexachloroethane
Concen: 5.148 ng
RT: 8.728 min Scan# 959
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:117 Resp: 13650

Ion	Ratio	Lower	Upper
117	100		
119	96.6	79.4	119.0
201	98.3	82.7	124.1



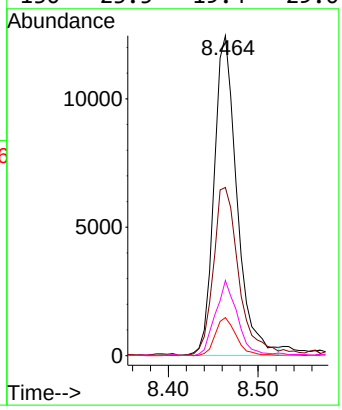


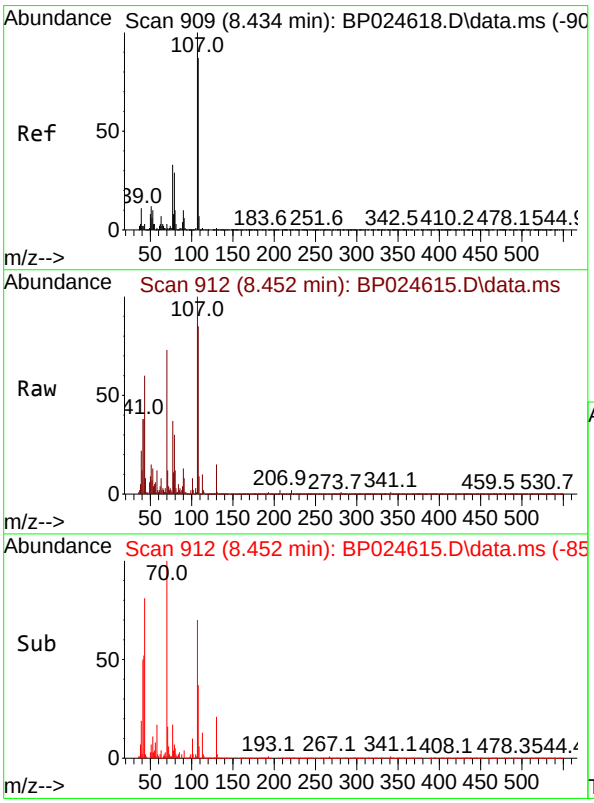
#19
n-Nitroso-di-n-propylamine
Concen: 4.734 ng
RT: 8.464 min Scan# 91
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 70 Resp: 22015

Ion	Ratio	Lower	Upper
70	100		
42	52.6	43.0	64.6
101	11.9	8.7	13.1
130	23.5	19.4	29.0

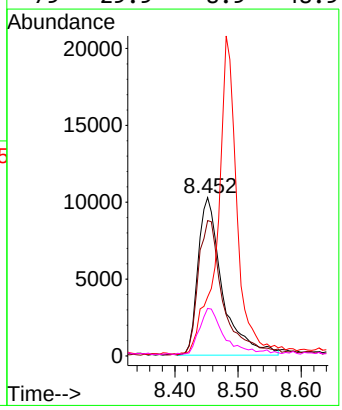


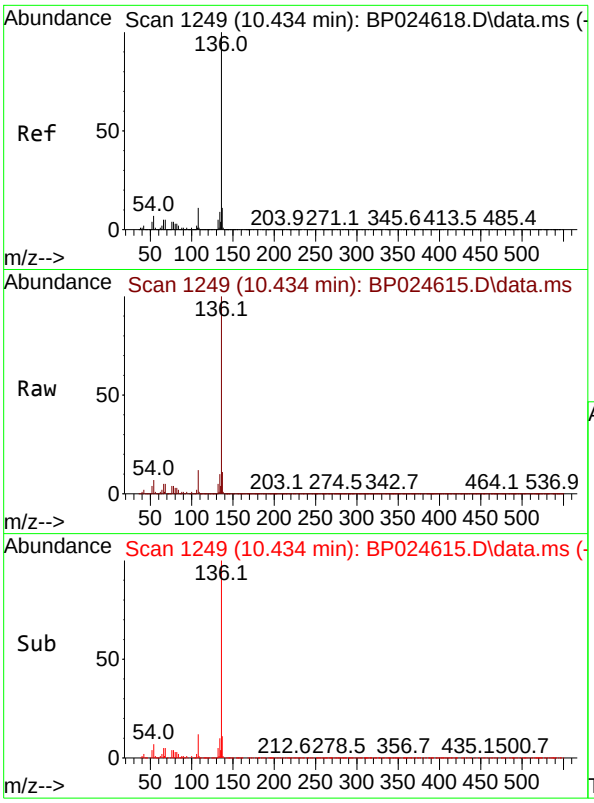


#20
3+4-Methylphenols
Concen: 4.063 ng
RT: 8.452 min Scan# 912
Delta R.T. 0.018 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:107 Resp: 27500

Ion	Ratio	Lower	Upper
107	100		
108	85.4	66.7	106.7
77	37.3	13.1	53.1
79	29.9	8.9	48.9



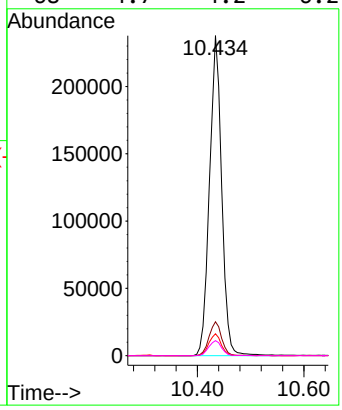


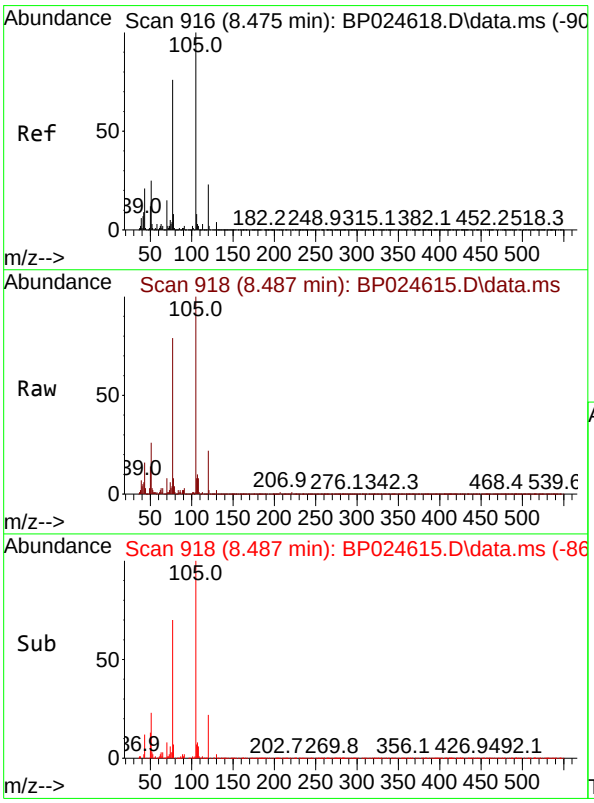
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:136 Resp: 378055

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	6.8	5.5	8.3
68	4.7	4.2	6.2

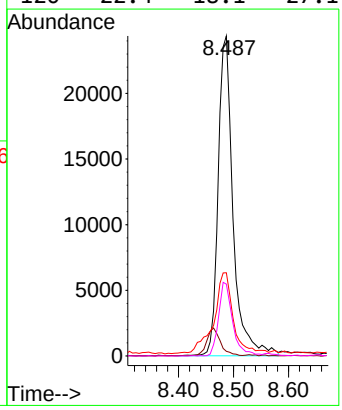


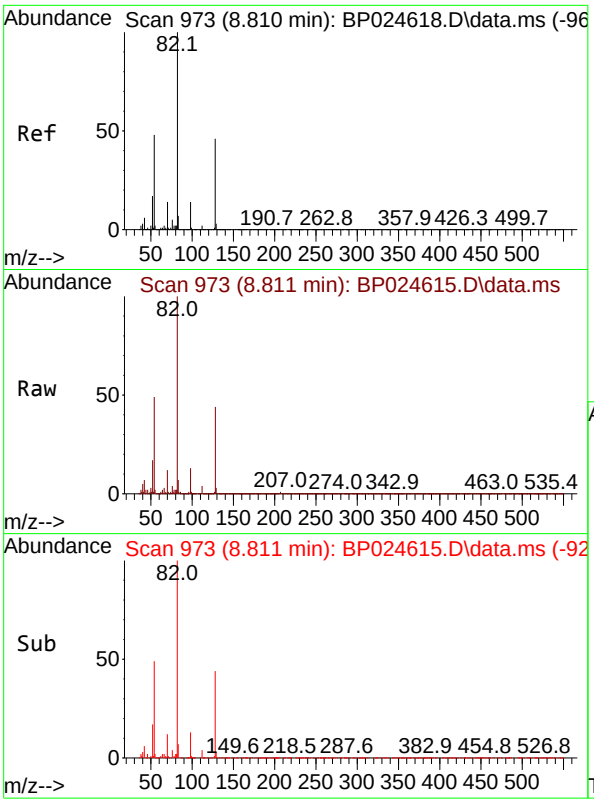


#22
Acetophenone
Concen: 4.868 ng
RT: 8.487 min Scan# 918
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:105 Resp: 45968

Ion	Ratio	Lower	Upper
105	100		
71	1.4	2.0	3.0#
51	26.0	20.4	30.6
120	22.4	18.1	27.1



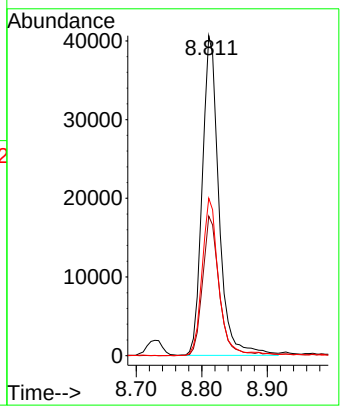


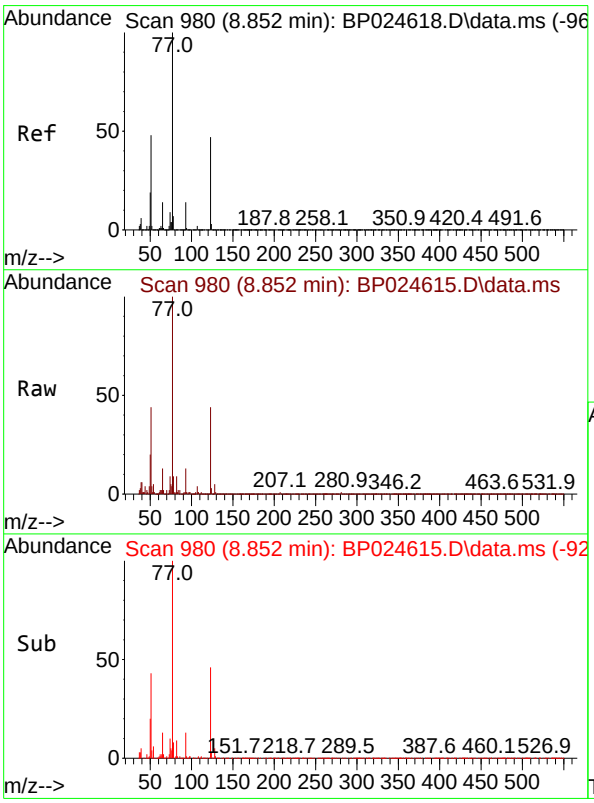
#23
Nitrobenzene-d5
Concen: 9.630 ng
RT: 8.811 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 72056

Ion	Ratio	Lower	Upper
82	100		
128	43.6	37.0	55.4
54	49.2	38.7	58.1

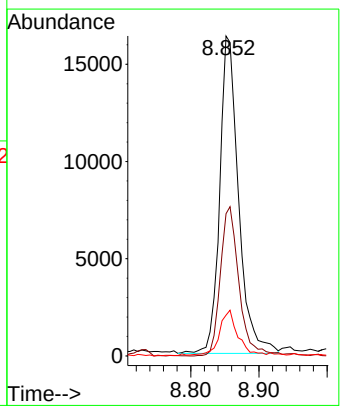


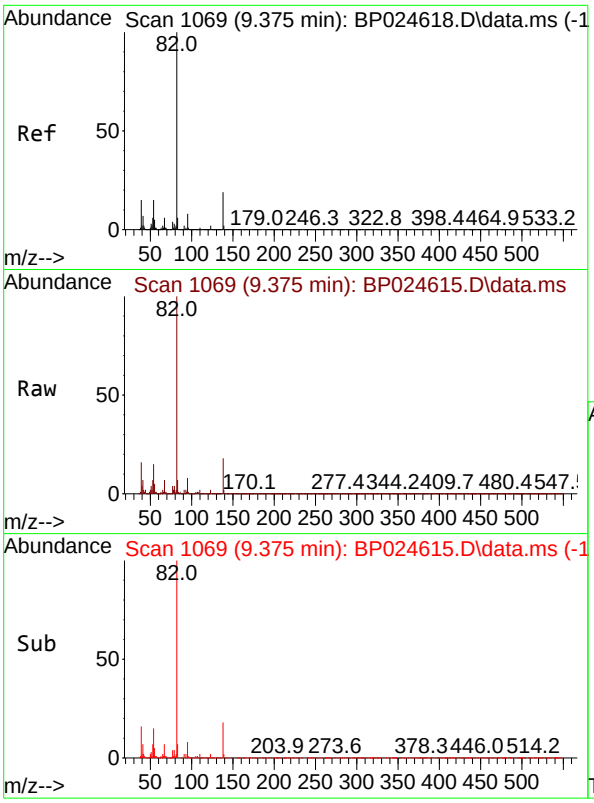


#24
Nitrobenzene
Concen: 4.784 ng
RT: 8.852 min Scan# 980
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 77 Resp: 31500

Ion	Ratio	Lower	Upper
77	100		
123	44.5	37.4	56.0
65	12.7	11.3	16.9



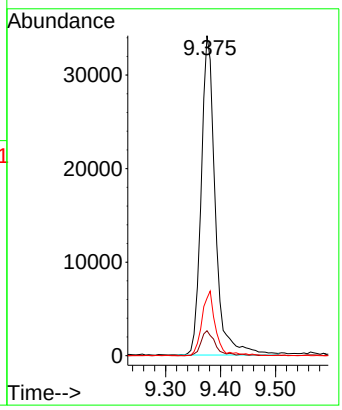


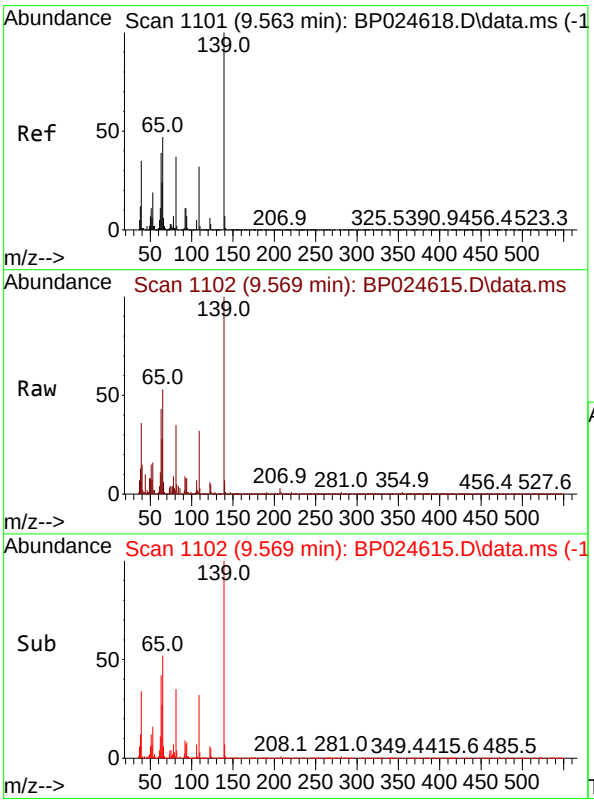
#25
Isophorone
Concen: 4.689 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 60855

Ion	Ratio	Lower	Upper
82	100		
95	7.8	6.3	9.5
138	17.9	15.3	22.9

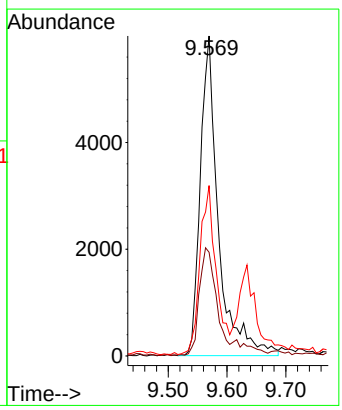


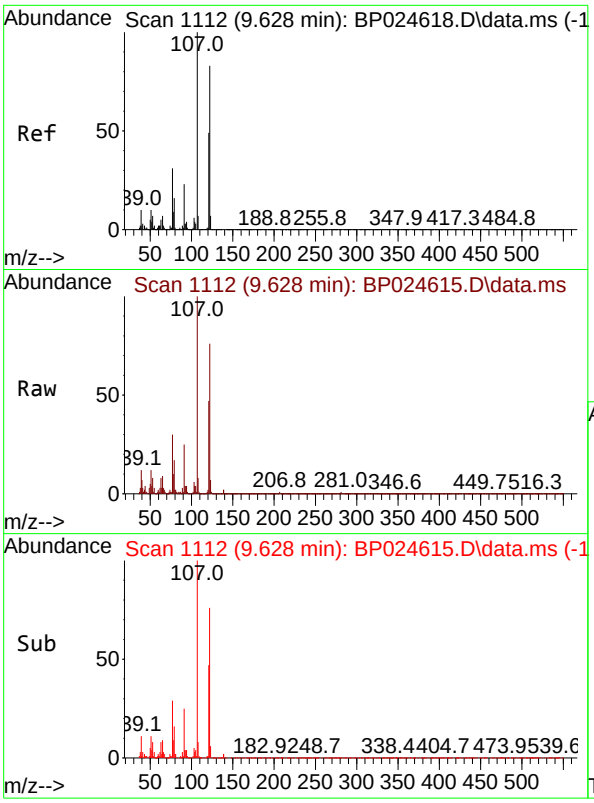


#26
2-Nitrophenol
Concen: 3.963 ng
RT: 9.569 min Scan# 1102
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:139 Resp: 12786

Ion	Ratio	Lower	Upper
139	100		
109	32.4	25.9	38.9
65	53.2	37.9	56.9



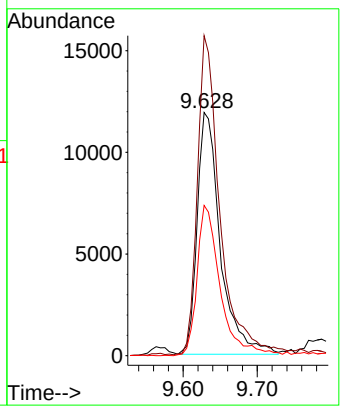


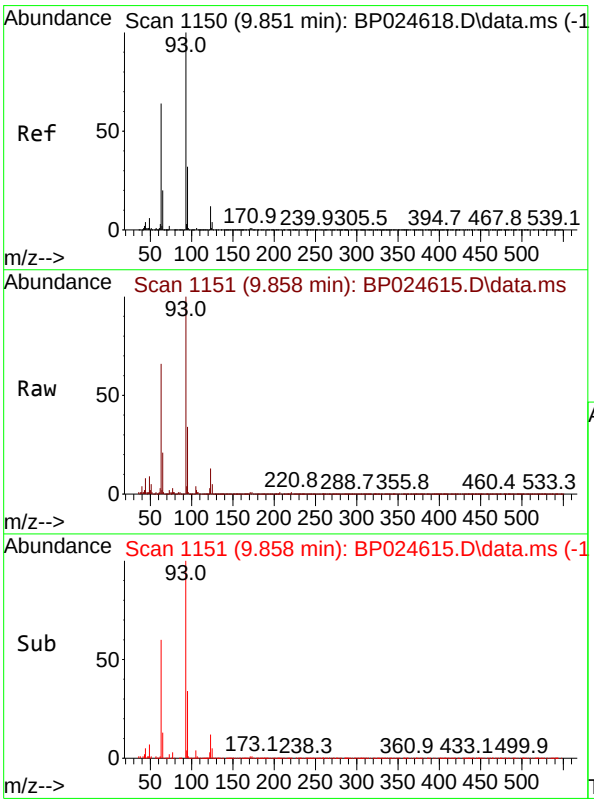
#27
2,4-Dimethylphenol
Concen: 4.541 ng
RT: 9.628 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:122 Resp: 25830

Ion	Ratio	Lower	Upper
122	100		
107	131.6	96.2	144.2
121	61.8	47.6	71.4

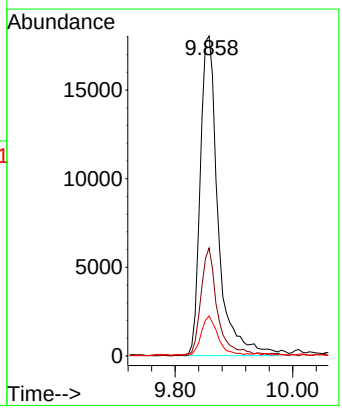


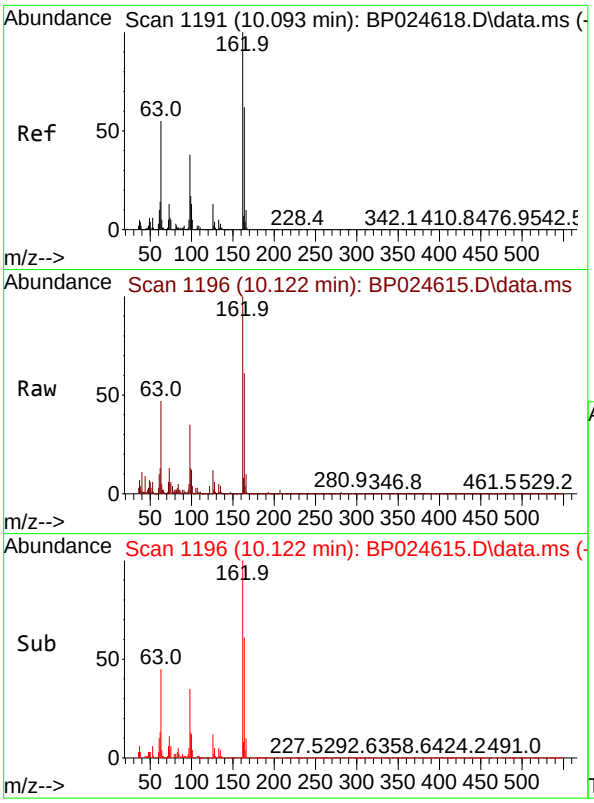


#28
bis(2-Chloroethoxy)methane
Concen: 4.910 ng
RT: 9.858 min Scan# 1151
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 93 Resp: 38071

Ion	Ratio	Lower	Upper
93	100		
95	33.7	25.5	38.3
123	12.5	9.7	14.5



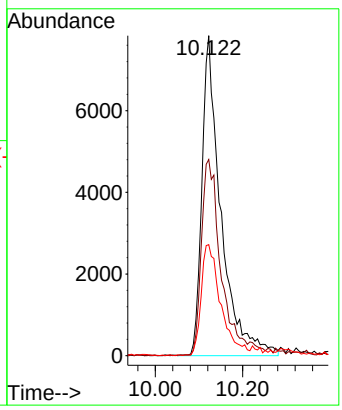


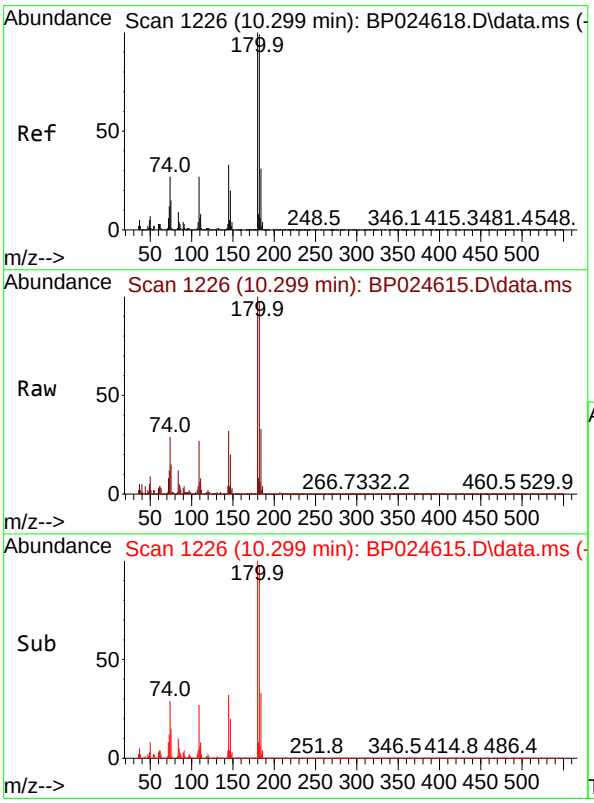
#29
2,4-Dichlorophenol
Concen: 4.285 ng
RT: 10.122 min Scan# 11
Delta R.T. 0.030 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 23623

Ion	Ratio	Lower	Upper
162	100		
164	61.3	42.3	82.3
98	34.7	18.4	58.4

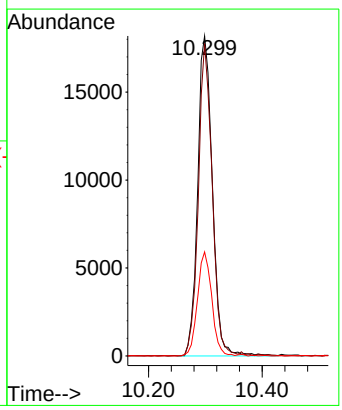


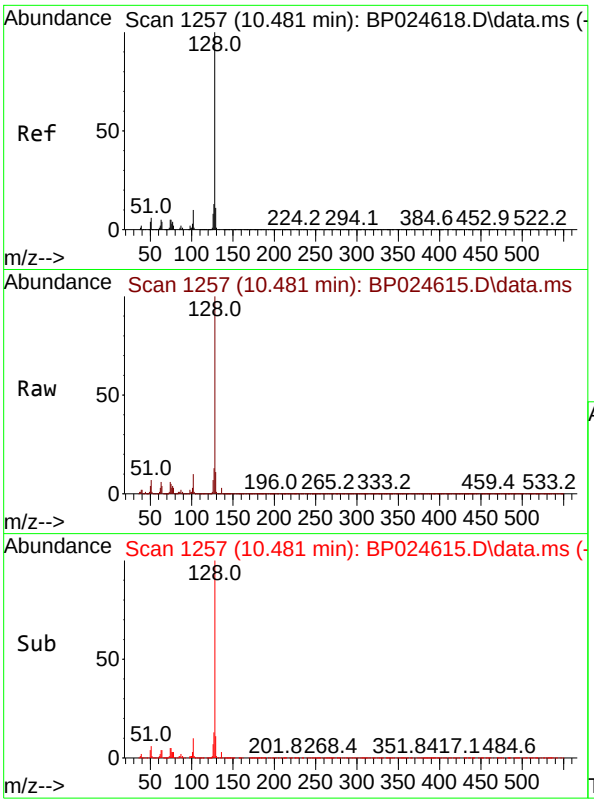


#30
1,2,4-Trichlorobenzene
Concen: 5.264 ng
RT: 10.299 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:180 Resp: 32699

Ion	Ratio	Lower	Upper
180	100		
182	97.6	79.0	118.4
145	32.5	26.6	39.8



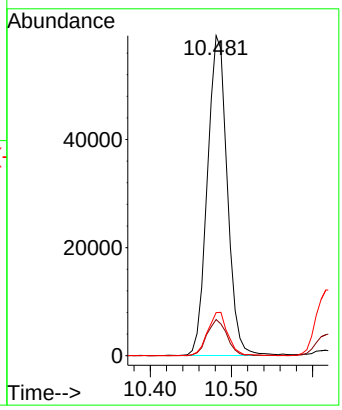


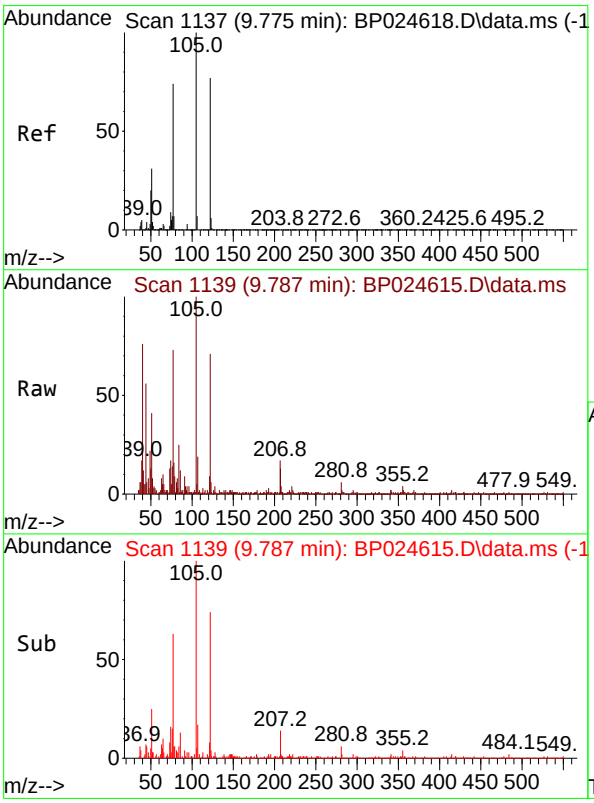
#31
Naphthalene
Concen: 5.133 ng
RT: 10.481 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 100564

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.5	10.7	16.1

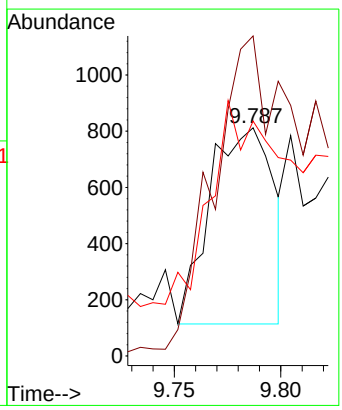


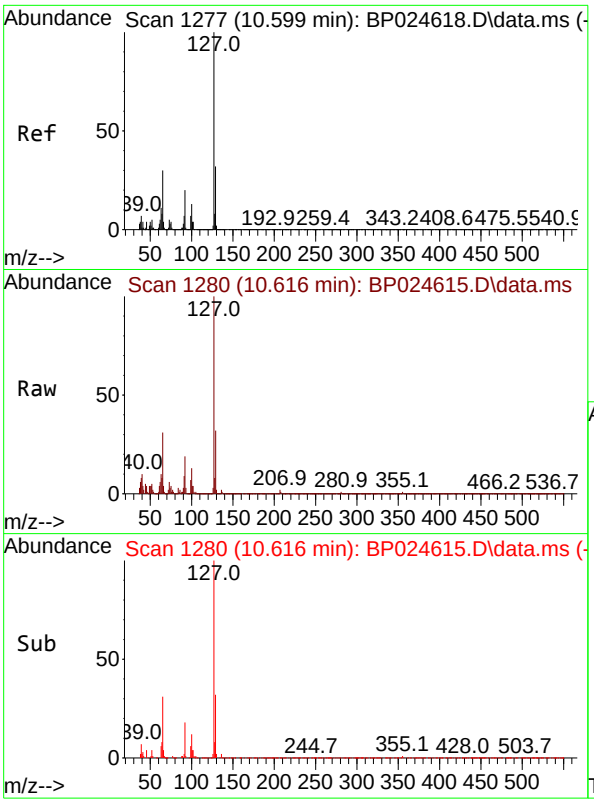


#32
Benzoic acid
Concen: 7.094 ng
RT: 9.787 min Scan# 1139
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:122 Resp: 1450

Ion	Ratio	Lower	Upper
122	100		
105	147.9	106.9	146.9#
77	103.0	75.1	115.1



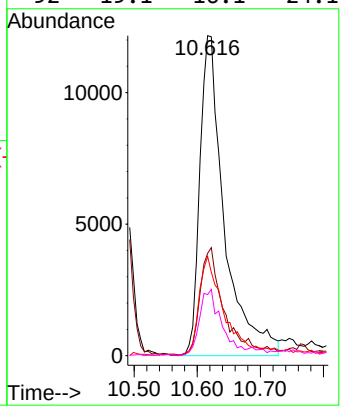


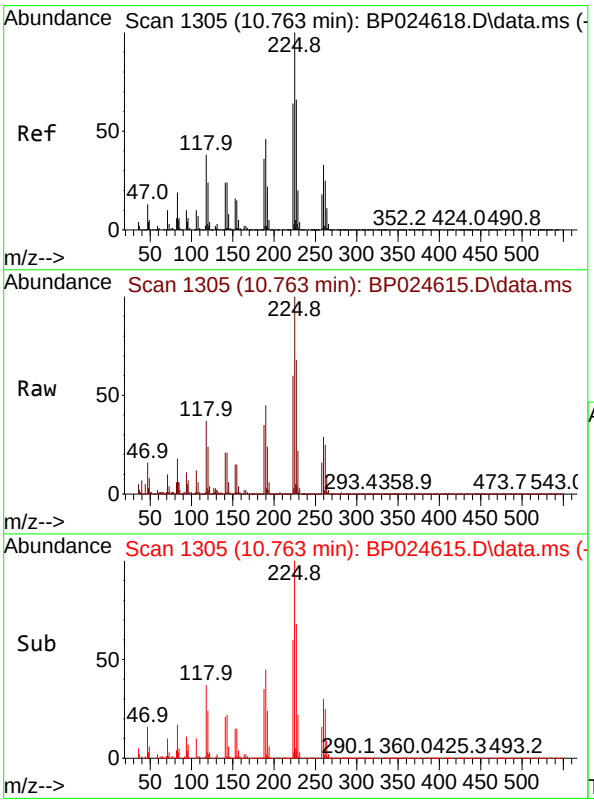
#33
4-Chloroaniline
Concen: 4.163 ng
RT: 10.616 min Scan# 1
Delta R.T. 0.018 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:127 Resp: 32908

Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.8	38.6
65	31.0	23.9	35.9
92	19.1	16.1	24.1

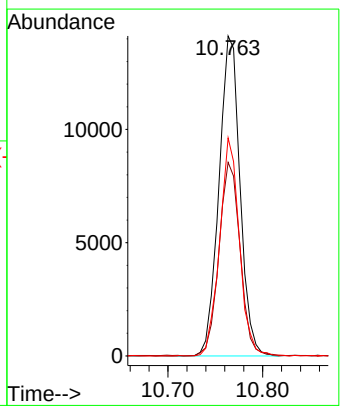


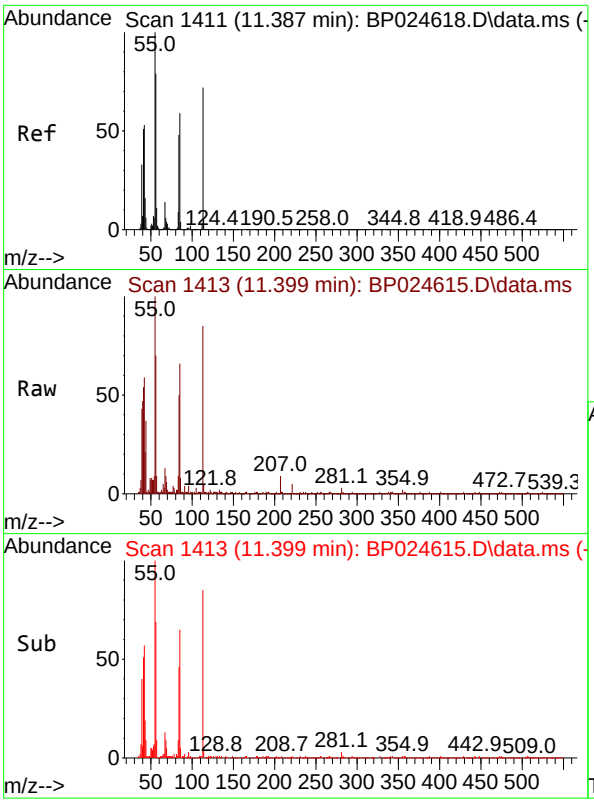


#34
Hexachlorobutadiene
Concen: 5.426 ng
RT: 10.763 min Scan# 1305
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:225 Resp: 21834

Ion	Ratio	Lower	Upper
225	100		
223	60.5	51.0	76.6
227	71.7	53.1	79.7



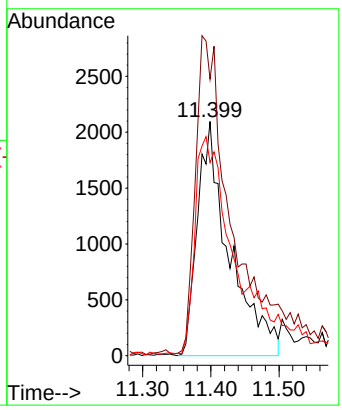


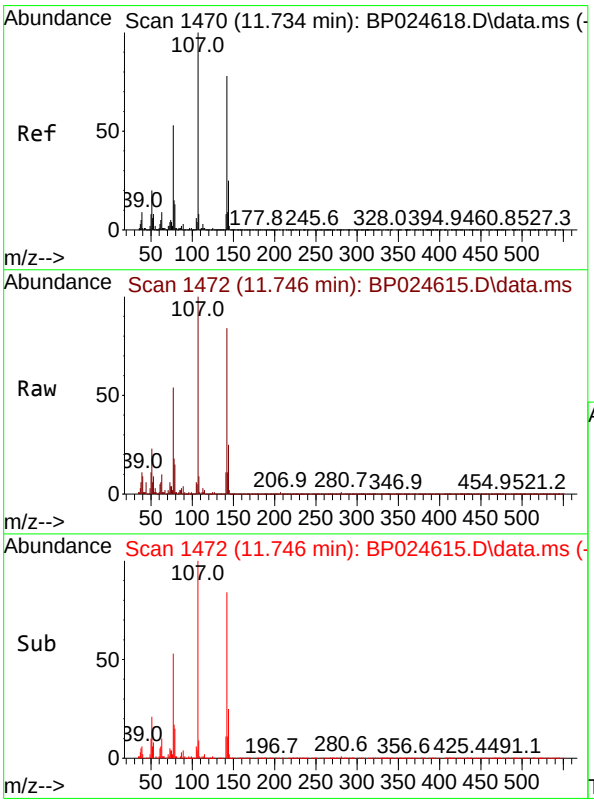
#35
Caprolactam
Concen: 3.420 ng
RT: 11.399 min Scan# 14
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:113 Resp: 6817

Ion	Ratio	Lower	Upper
113	100		
55	118.0	119.0	159.0#
56	82.4	90.3	130.3#

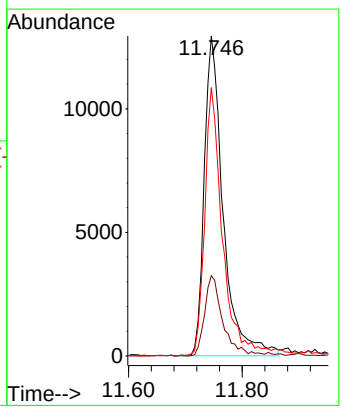


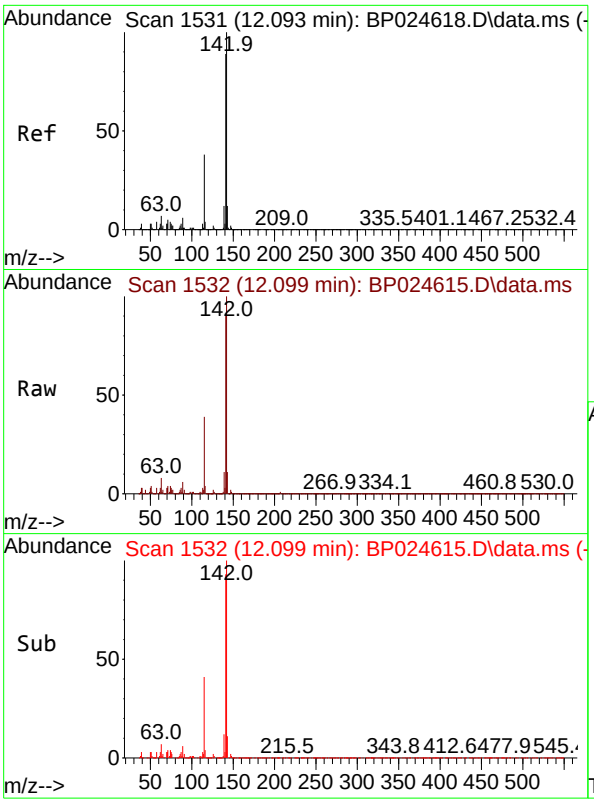


#36
4-Chloro-3-methylphenol
Concen: 4.440 ng
RT: 11.746 min Scan# 1472
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:107 Resp: 29849

Ion	Ratio	Lower	Upper
107	100		
144	25.0	20.1	30.1
142	83.9	62.1	93.1



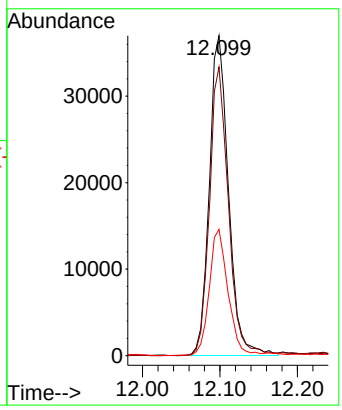


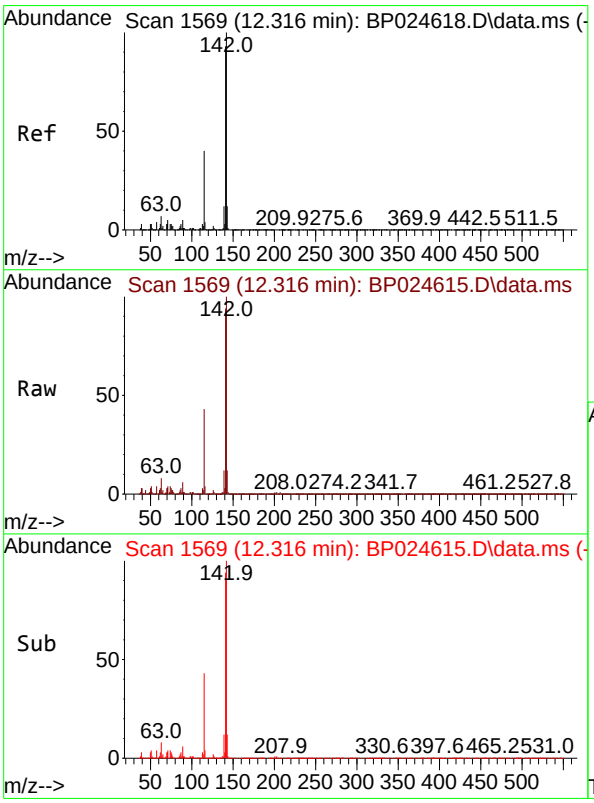
#37
2-Methylnaphthalene
Concen: 5.011 ng
RT: 12.099 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:142 Resp: 63562

Ion	Ratio	Lower	Upper
142	100		
141	90.2	71.2	106.8
115	39.4	30.6	46.0

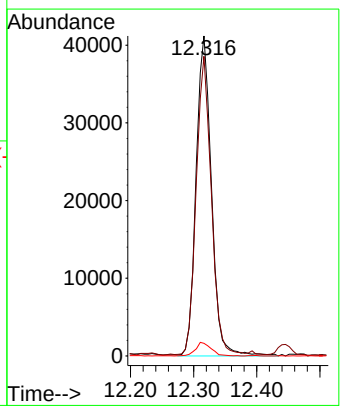


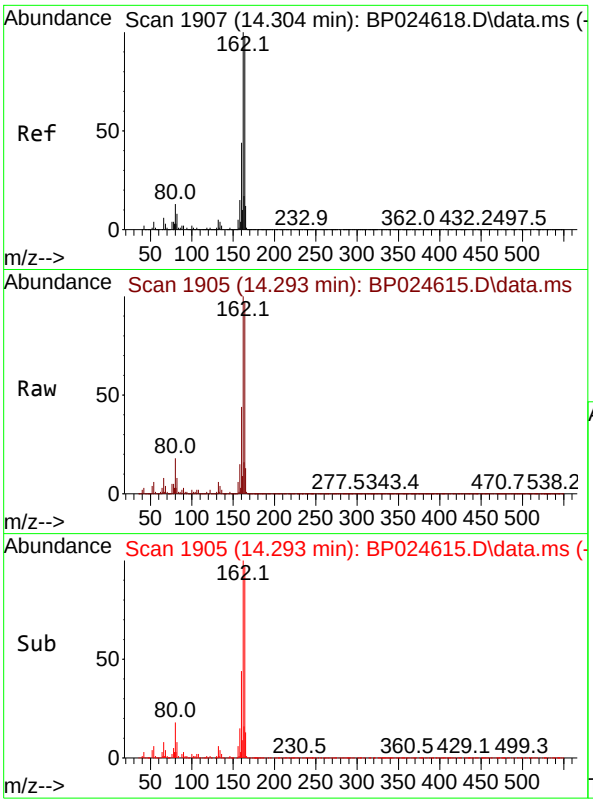


#38
1-Methylnaphthalene
Concen: 5.160 ng
RT: 12.316 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:142 Resp: 70043

Ion	Ratio	Lower	Upper
142	100		
141	93.7	74.7	112.1
116	4.0	3.4	5.2



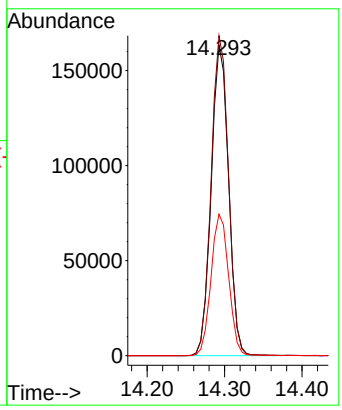


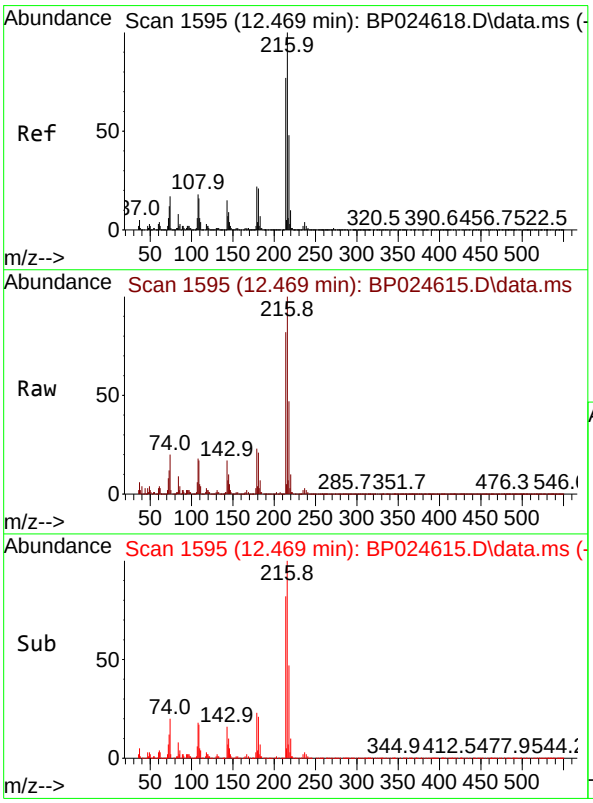
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.293 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:164 Resp: 254561

Ion	Ratio	Lower	Upper
164	100		
162	103.0	81.8	122.6
160	45.5	36.3	54.5

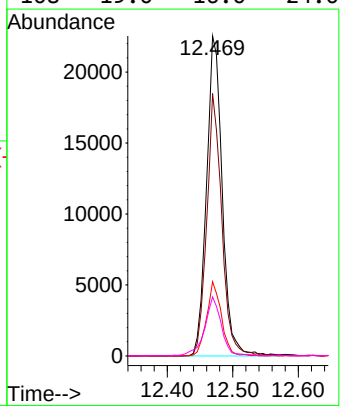


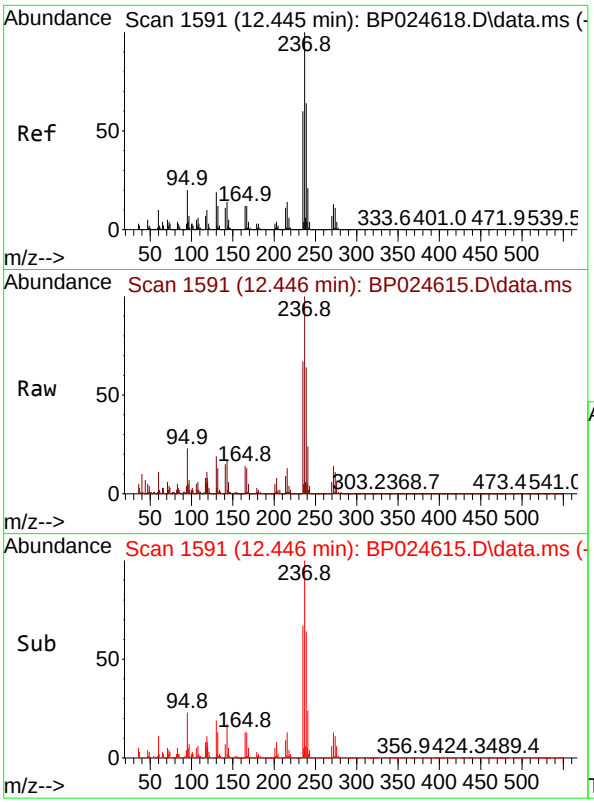


#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.105 ng
RT: 12.469 min Scan# 1595
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:216 Resp: 37738

Ion	Ratio	Lower	Upper
216	100		
214	78.4	62.3	93.5
179	22.0	17.7	26.5
108	19.0	16.0	24.0



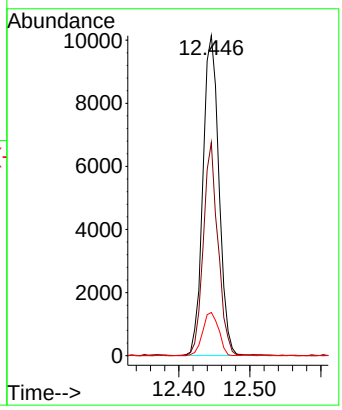


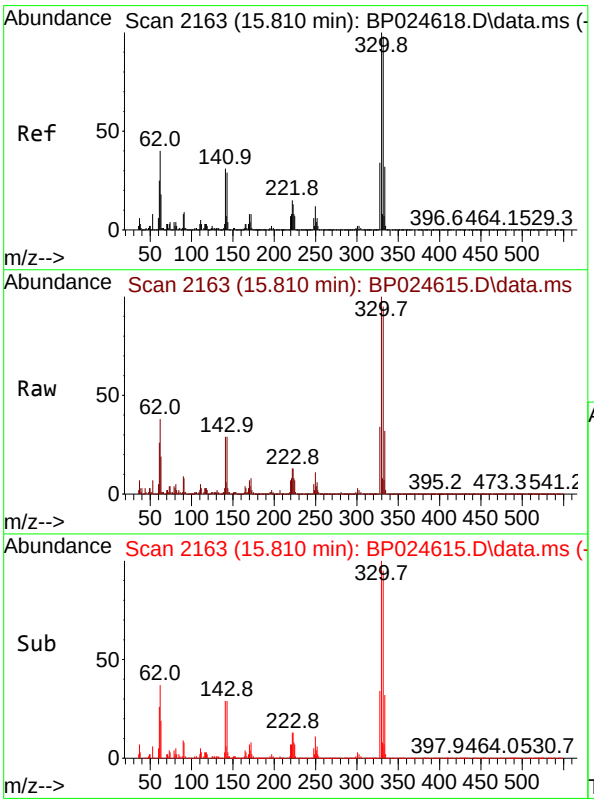
#41
Hexachlorocyclopentadiene
Concen: 3.556 ng
RT: 12.446 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:237 Resp: 15939

Ion	Ratio	Lower	Upper
237	100		
235	66.6	39.9	79.9
272	13.5	0.0	33.2

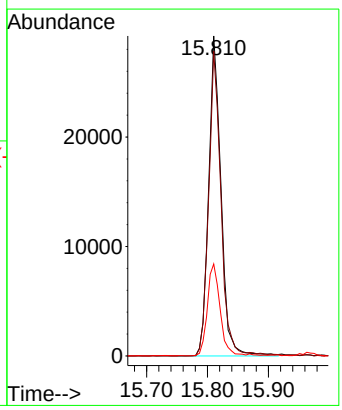


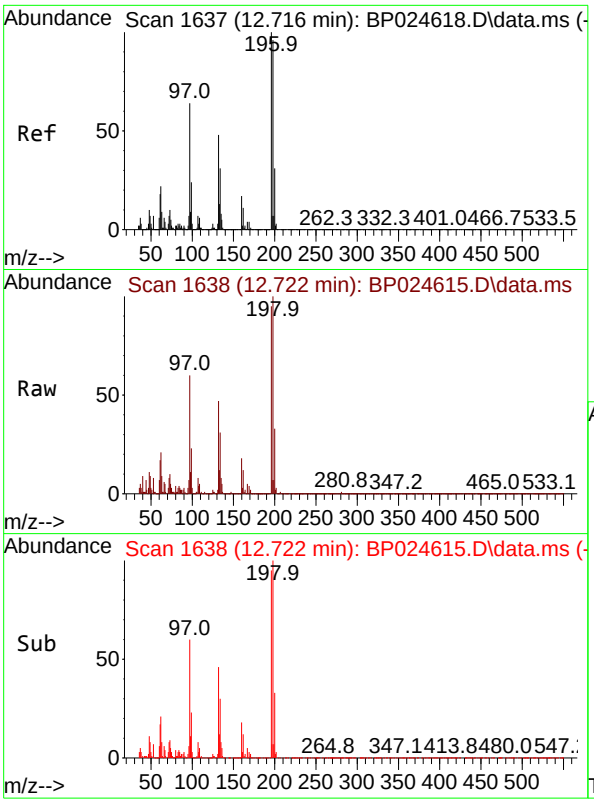


#42
2,4,6-Tribromophenol
Concen: 9.551 ng
RT: 15.810 min Scan# 2163
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:330 Resp: 41219

Ion	Ratio	Lower	Upper
330	100		
332	95.4	78.2	117.4
141	29.5	24.3	36.5



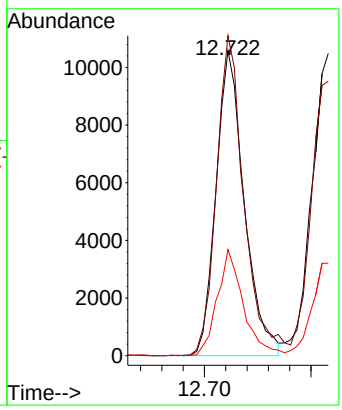


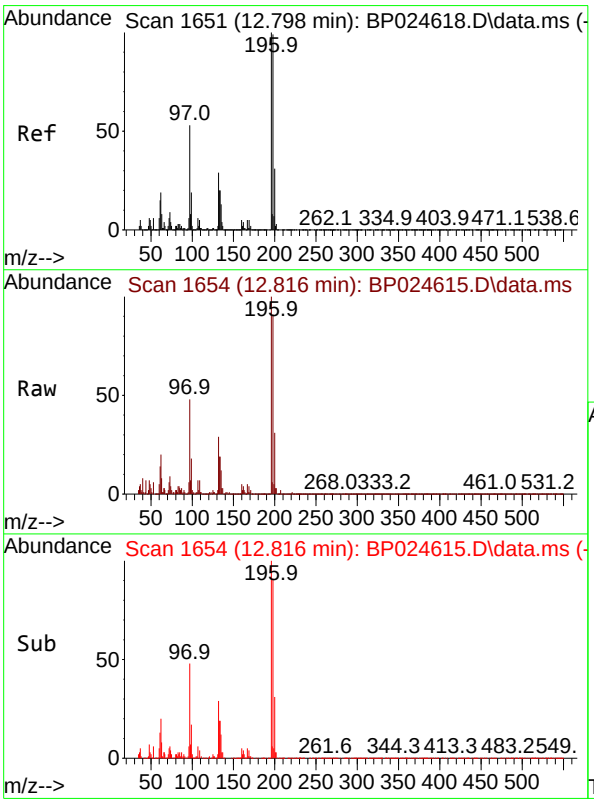
#43
2,4,6-Trichlorophenol
Concen: 4.058 ng
RT: 12.722 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:196 Resp: 19429

Ion	Ratio	Lower	Upper
196	100		
198	104.9	76.9	115.3
200	34.8	25.2	37.8

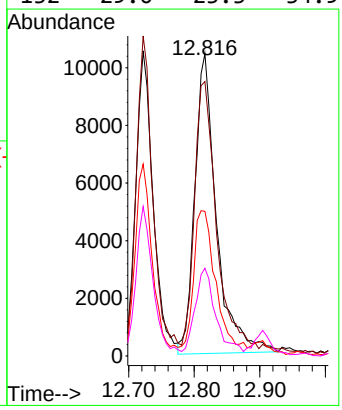


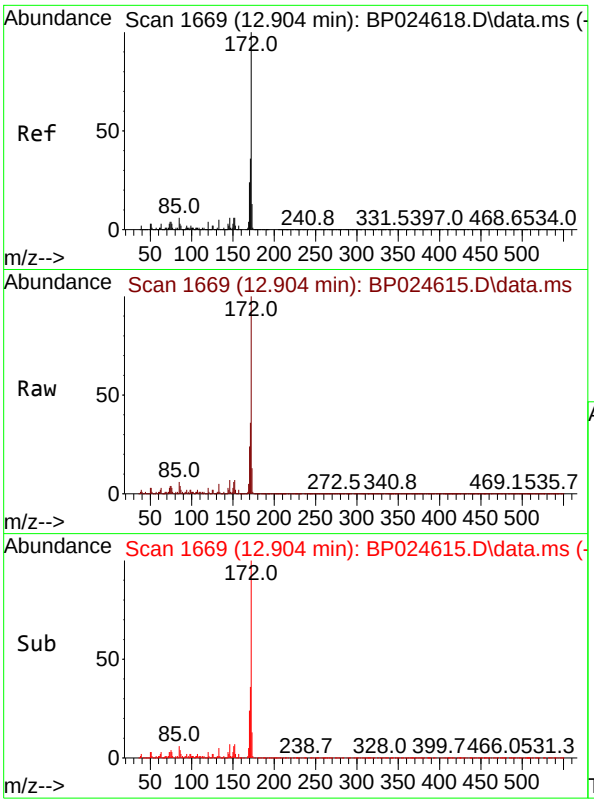


#44
2,4,5-Trichlorophenol
Concen: 4.488 ng
RT: 12.816 min Scan# 1654
Delta R.T. 0.018 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:196 Resp: 23918

Ion	Ratio	Lower	Upper
196	100		
198	90.8	79.2	118.8
97	47.8	42.3	63.5
132	29.0	23.3	34.9



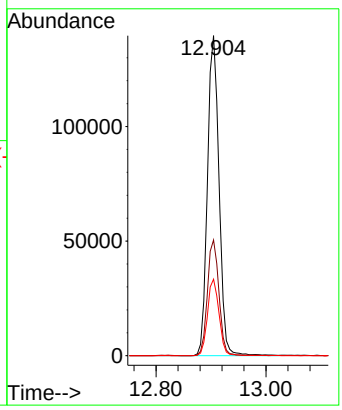


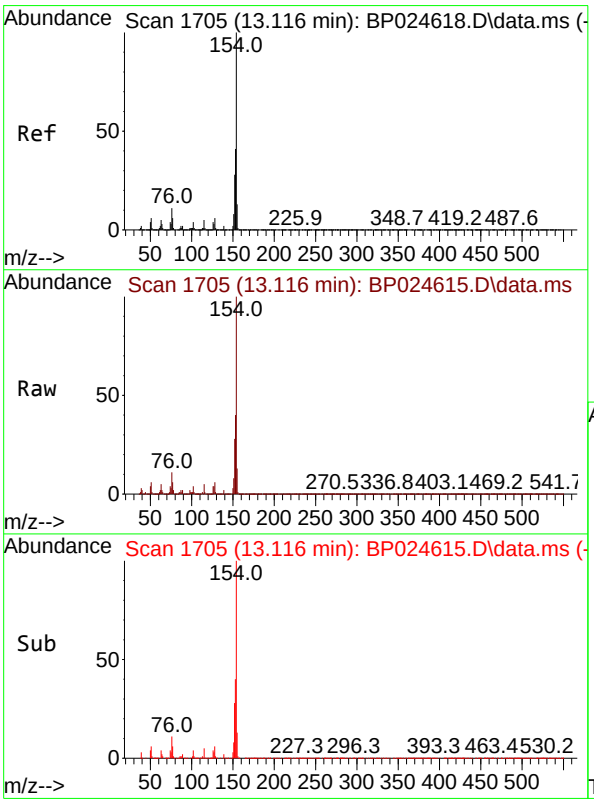
#45
2-Fluorobiphenyl
Concen: 10.485 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:172 Resp: 203719

Ion	Ratio	Lower	Upper
172	100		
171	36.1	28.8	43.2
170	23.9	18.8	28.2

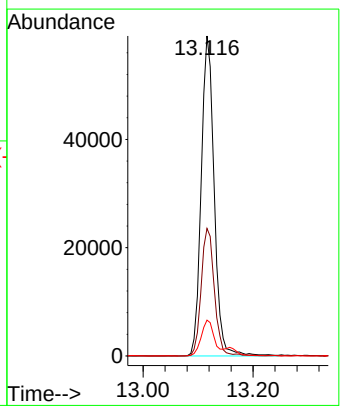


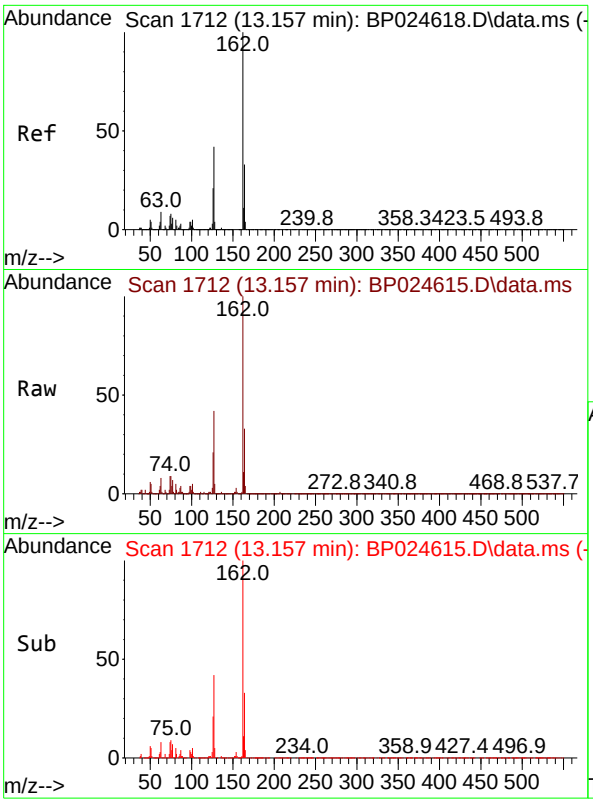


#46
1,1'-Biphenyl
Concen: 5.153 ng
RT: 13.116 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:154 Resp: 96956

Ion	Ratio	Lower	Upper
154	100		
153	39.8	21.0	61.0
76	11.2	0.0	31.5



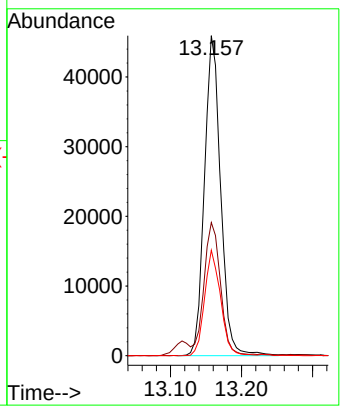


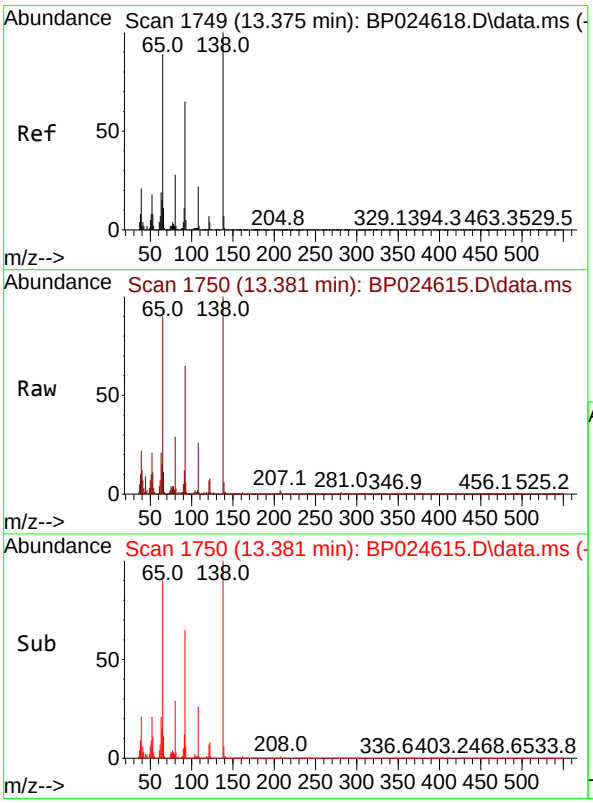
#47
2-Chloronaphthalene
Concen: 5.087 ng
RT: 13.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 72977

Ion	Ratio	Lower	Upper
162	100		
127	41.6	33.8	50.6
164	33.0	26.0	39.0

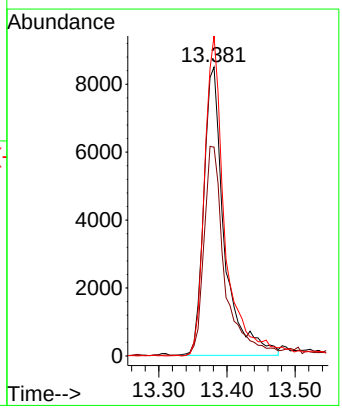


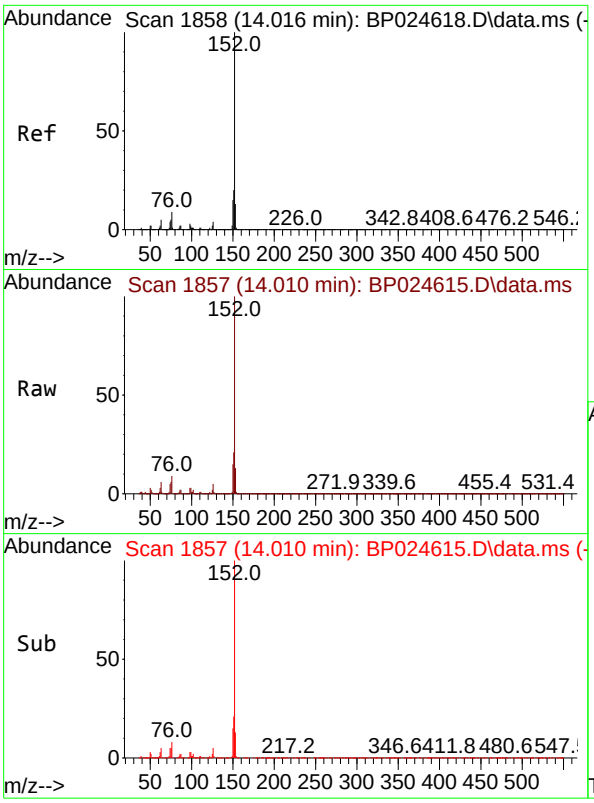


#48
2-Nitroaniline
Concen: 4.186 ng
RT: 13.381 min Scan# 1750
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion: 65 Resp: 17778

Ion	Ratio	Lower	Upper
65	100		
92	72.3	58.7	88.1
138	110.8	90.2	135.2



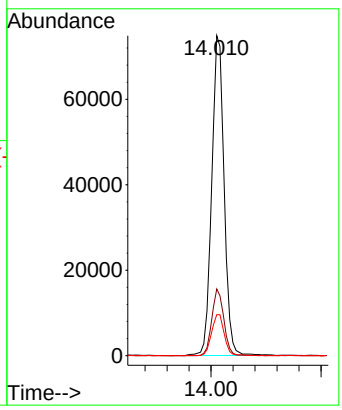


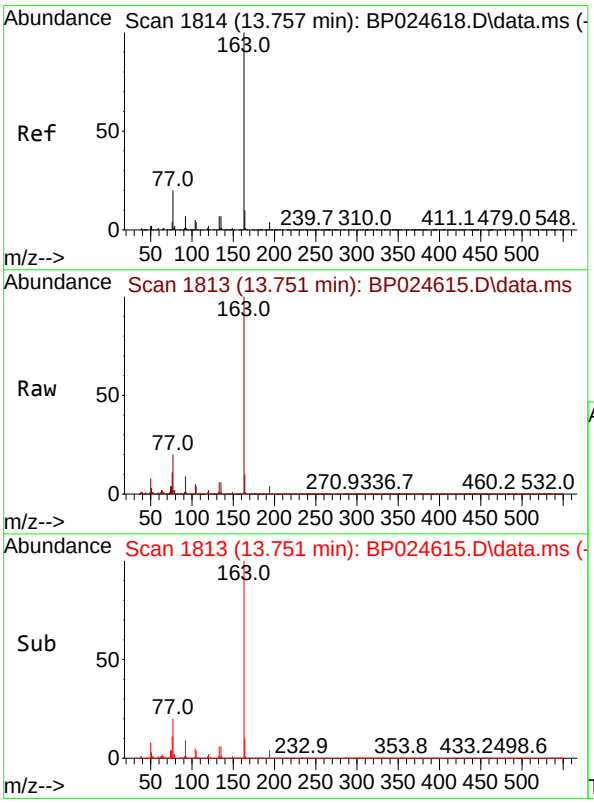
#49
Acenaphthylene
Concen: 4.892 ng
RT: 14.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 117448

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.2	24.4
153	12.8	10.2	15.4

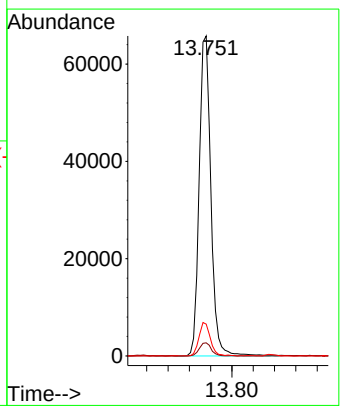


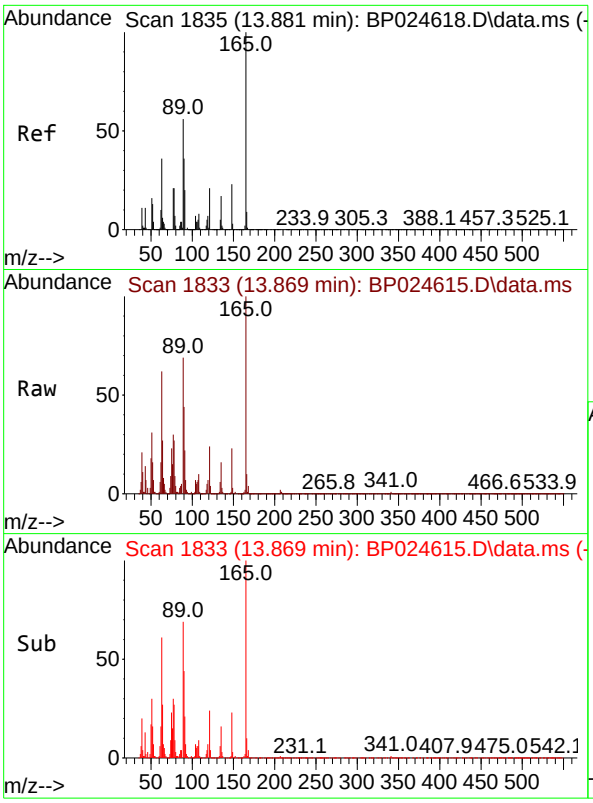


#50
Dimethylphthalate
Concen: 5.151 ng
RT: 13.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:163 Resp: 99940

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	9.9	8.1	12.1



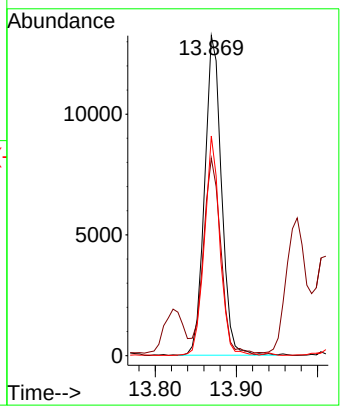


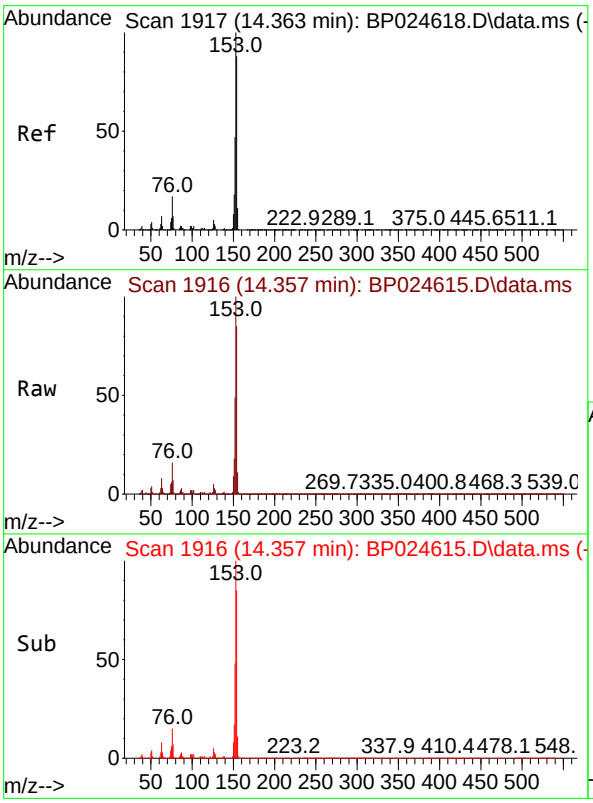
#51
2,6-Dinitrotoluene
Concen: 4.649 ng
RT: 13.869 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 19052

Ion	Ratio	Lower	Upper
165	100		
63	61.7	42.4	63.6
89	68.7	44.8	67.2#

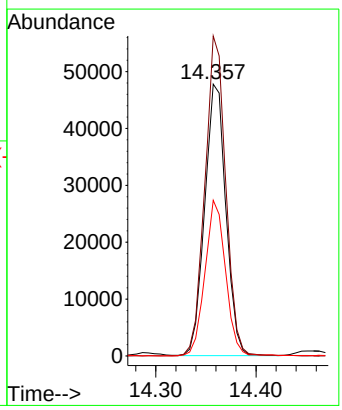


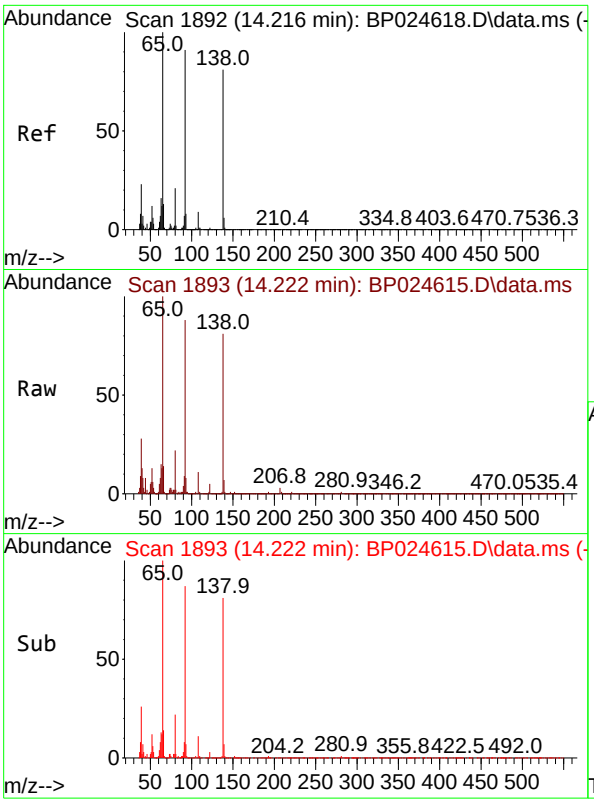


#52
Acenaphthene
Concen: 5.094 ng
RT: 14.357 min Scan# 1916
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:154 Resp: 70302

Ion	Ratio	Lower	Upper
154	100		
153	117.7	91.0	136.4
152	57.3	42.9	64.3



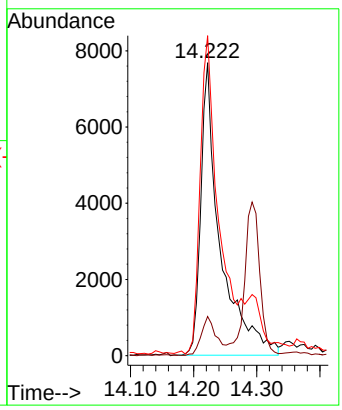


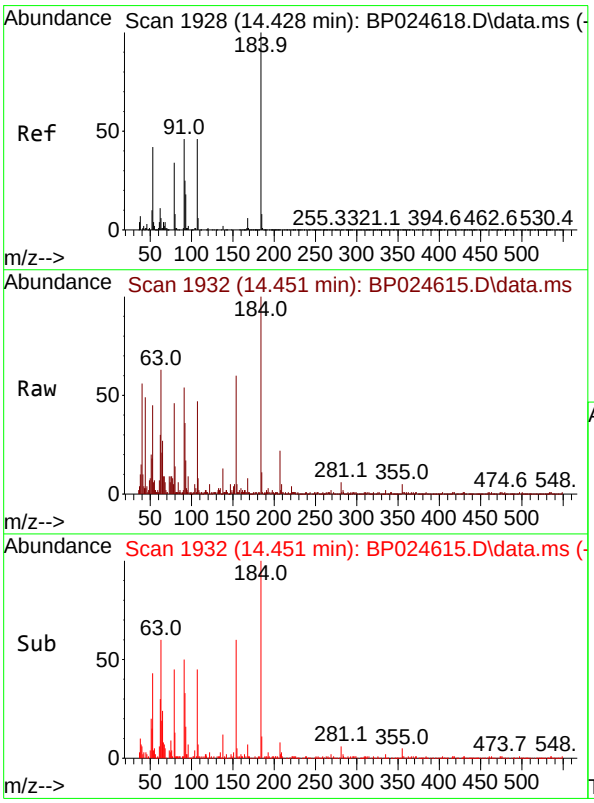
#53
3-Nitroaniline
Concen: 3.920 ng
RT: 14.222 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 16400

Ion	Ratio	Lower	Upper
138	100		
108	13.4	9.0	13.4
92	109.3	90.1	135.1

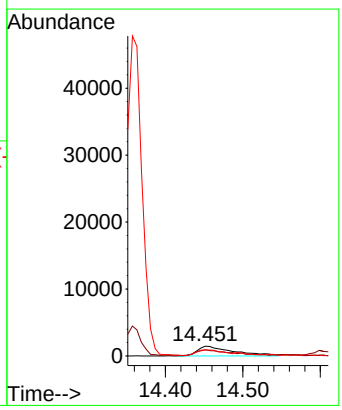


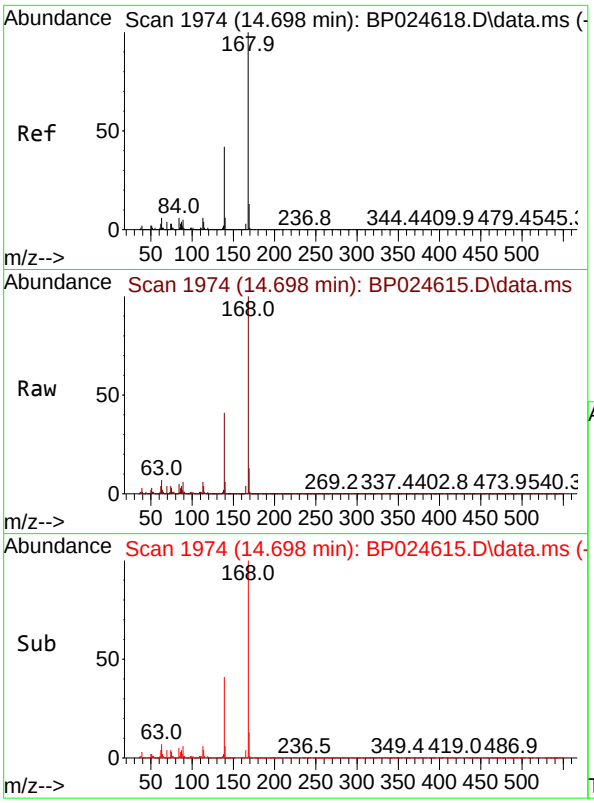


#54
2,4-Dinitrophenol
Concen: 8.074 ng
RT: 14.451 min Scan# 1932
Delta R.T. 0.023 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:184 Resp: 4700

Ion	Ratio	Lower	Upper
184	100		
63	63.4	51.3	76.9
154	60.2	53.5	80.3



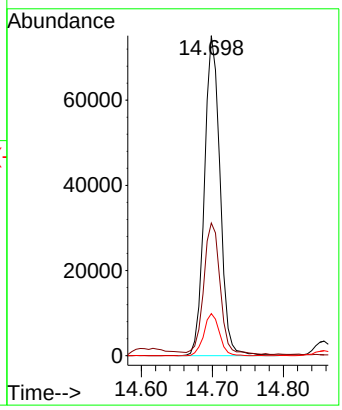


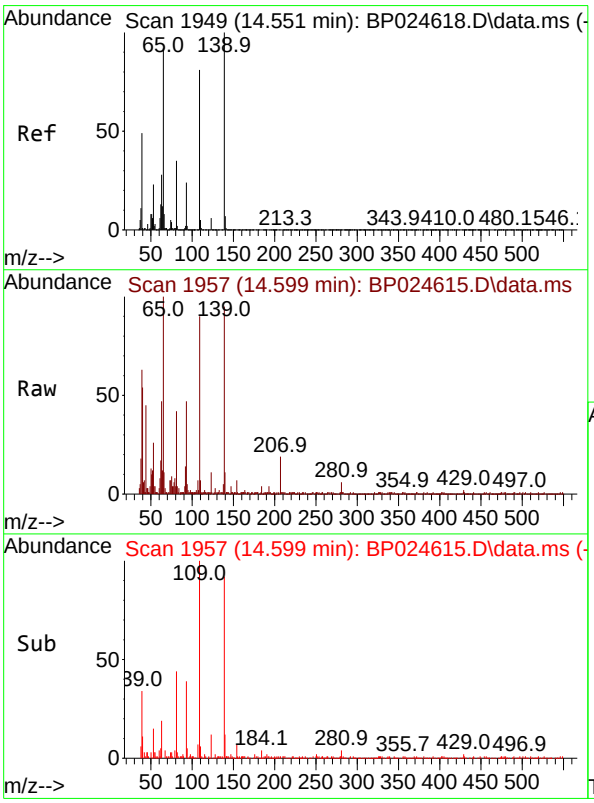
#55
Dibenzofuran
Concen: 5.232 ng
RT: 14.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:168 Resp: 115180

Ion	Ratio	Lower	Upper
168	100		
139	41.5	34.2	51.4
169	13.2	10.8	16.2

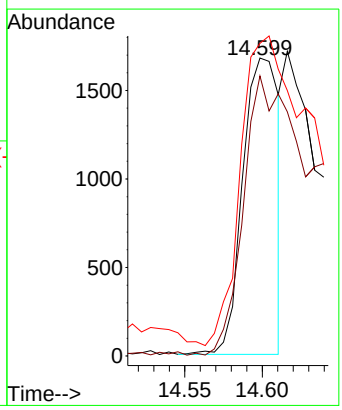


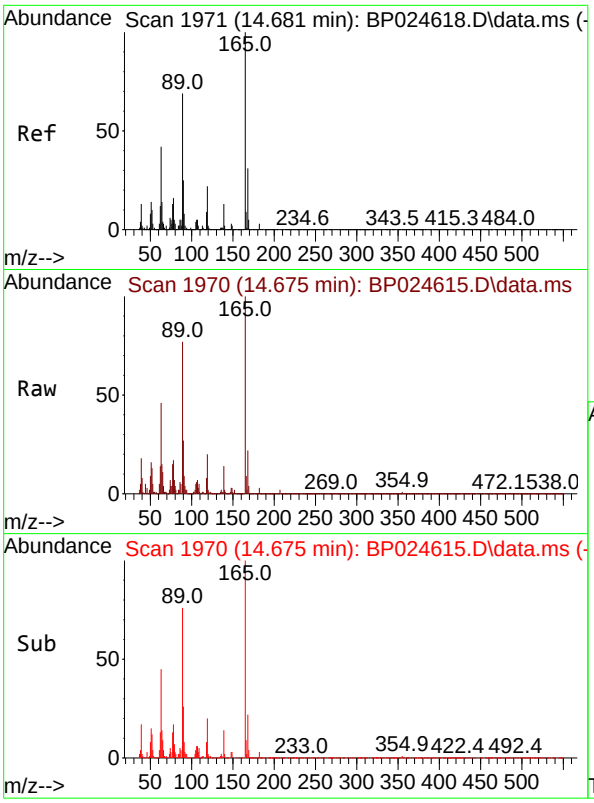


#56
4-Nitrophenol
Concen: 4.940 ng
RT: 14.599 min Scan# 1957
Delta R.T. 0.047 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:139 Resp: 2698

Ion	Ratio	Lower	Upper
139	100		
109	94.0	61.4	101.4
65	104.9	72.2	112.2



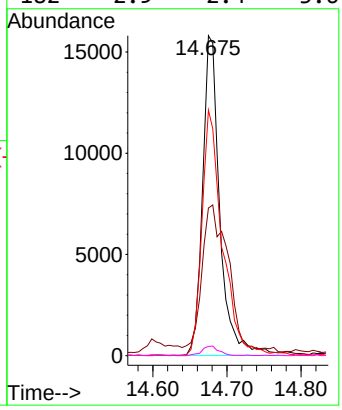


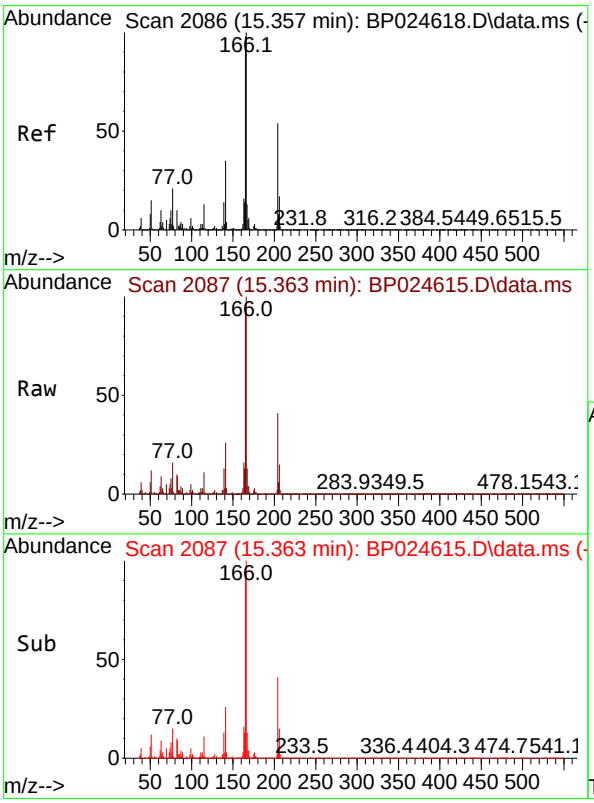
#57
2,4-Dinitrotoluene
Concen: 4.411 ng
RT: 14.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:165 Resp: 25481

Ion	Ratio	Lower	Upper
165	100		
63	46.2	33.8	50.6
89	76.8	55.6	83.4
182	2.9	2.4	3.6

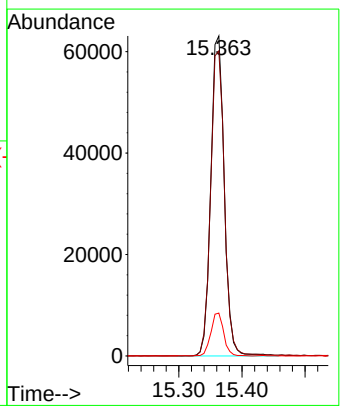


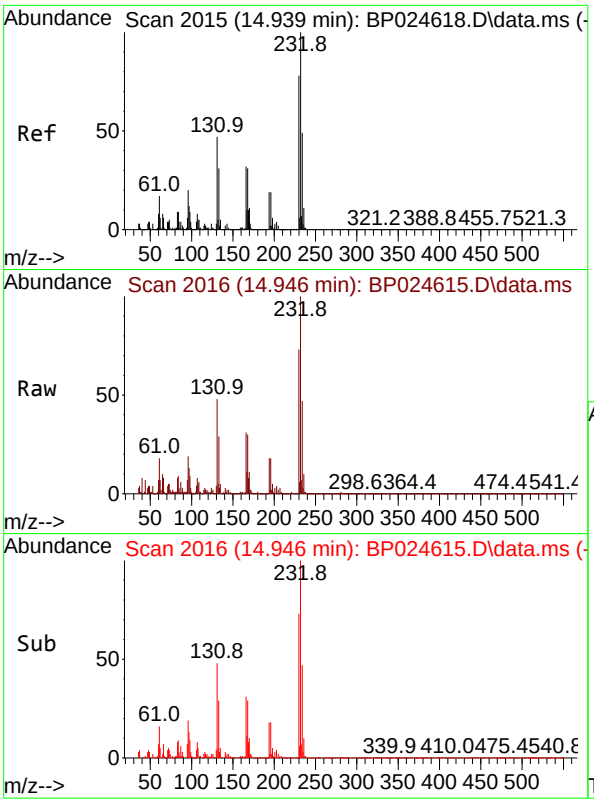


#58
Fluorene
Concen: 5.198 ng
RT: 15.363 min Scan# 2087
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:166 Resp: 93303

Ion	Ratio	Lower	Upper
166	100		
165	95.4	78.5	117.7
167	13.4	10.7	16.1



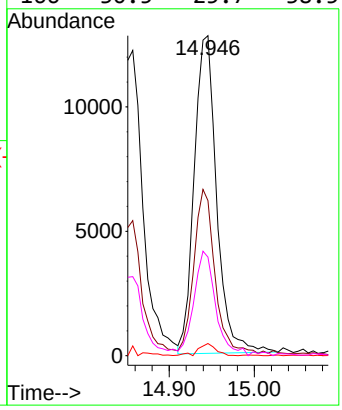


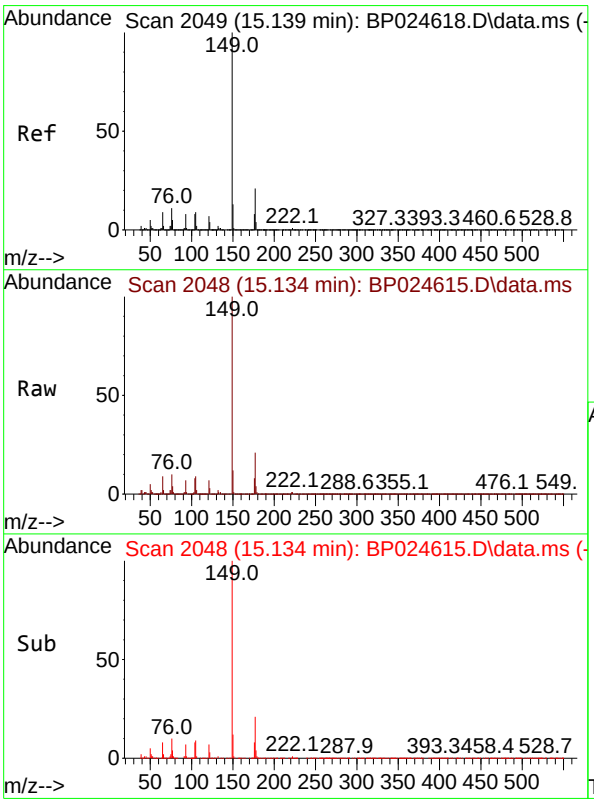
#59
2,3,4,6-Tetrachlorophenol
Concen: 4.729 ng
RT: 14.946 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:232 Resp: 23382

Ion	Ratio	Lower	Upper
232	100		
131	48.6	39.5	59.3
130	3.0	2.2	3.4
166	30.5	25.7	38.5

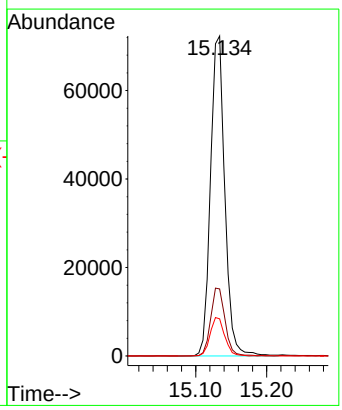


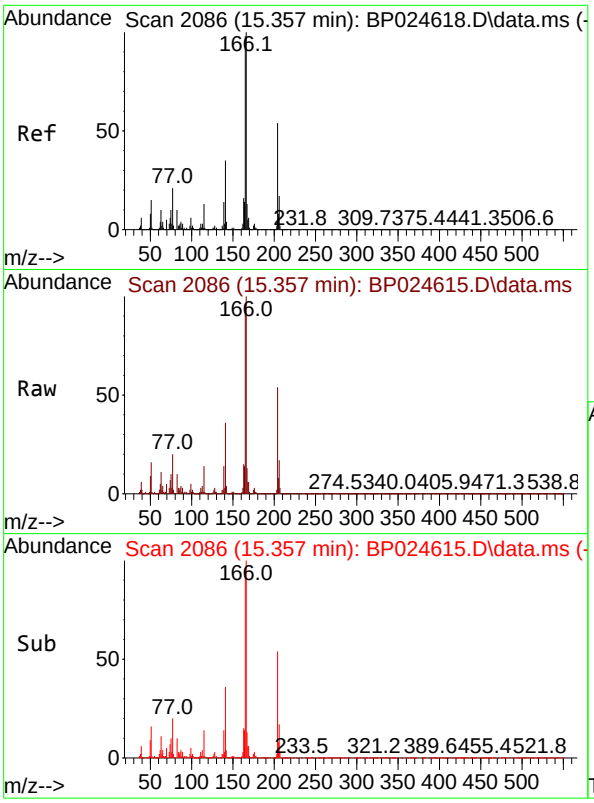


#60
Diethylphthalate
Concen: 5.169 ng
RT: 15.134 min Scan# 2048
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:149 Resp: 101366

Ion	Ratio	Lower	Upper
149	100		
177	20.9	16.7	25.1
150	11.6	10.2	15.2



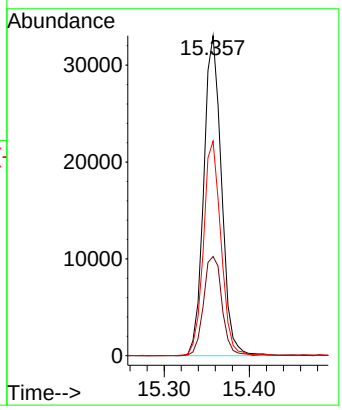


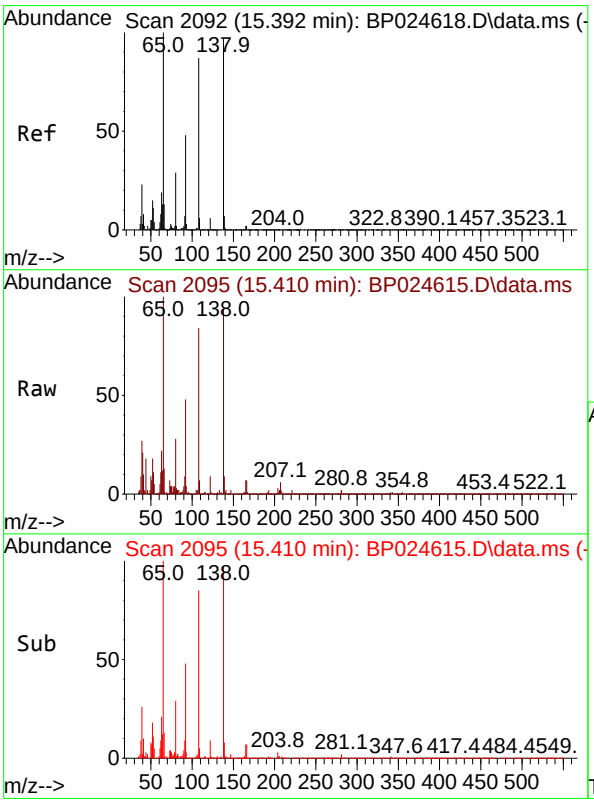
#61
4-Chlorophenyl-phenylether
Concen: 5.349 ng
RT: 15.357 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:204 Resp: 47886

Ion	Ratio	Lower	Upper
204	100		
206	31.0	26.0	39.0
141	67.1	52.9	79.3

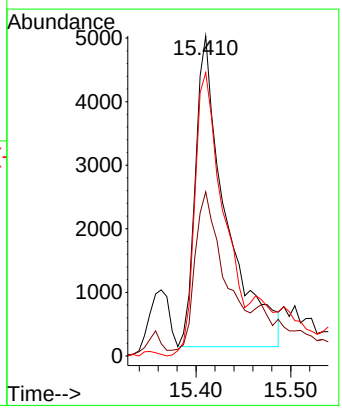


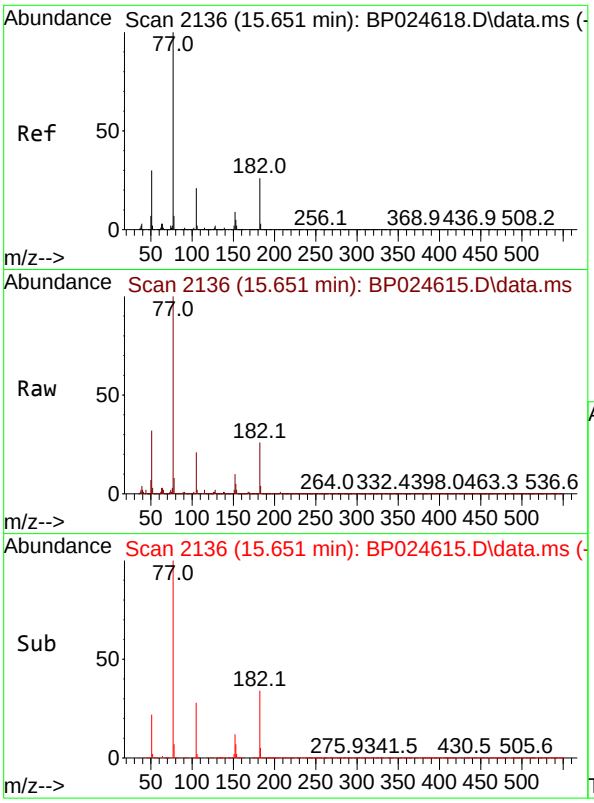


#62
4-Nitroaniline
Concen: 2.696 ng
RT: 15.410 min Scan# 2095
Delta R.T. 0.018 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:138 Resp: 10984

Ion	Ratio	Lower	Upper
138	100		
92	51.3	29.2	69.2
108	88.5	69.0	109.0



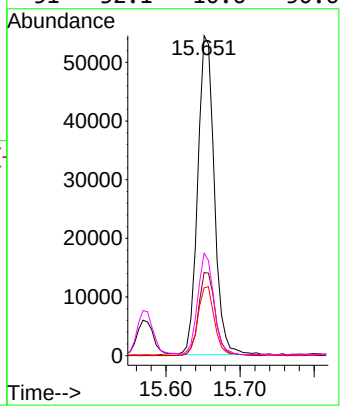


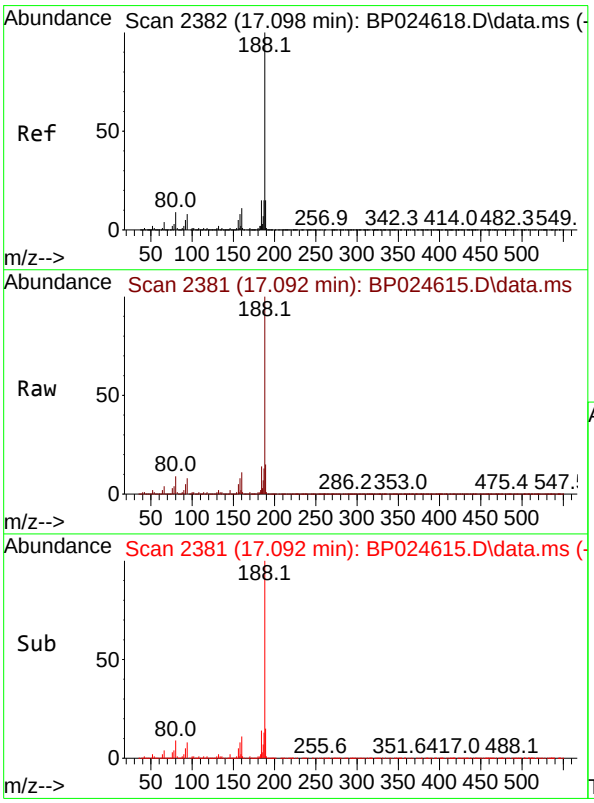
#63
Azobenzene
Concen: 5.035 ng
RT: 15.651 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion: 77 Resp: 84462

Ion	Ratio	Lower	Upper
77	100		
182	26.0	5.7	45.7
105	21.2	1.3	41.3
51	32.1	10.6	50.6

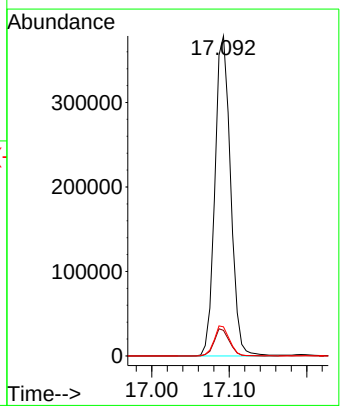


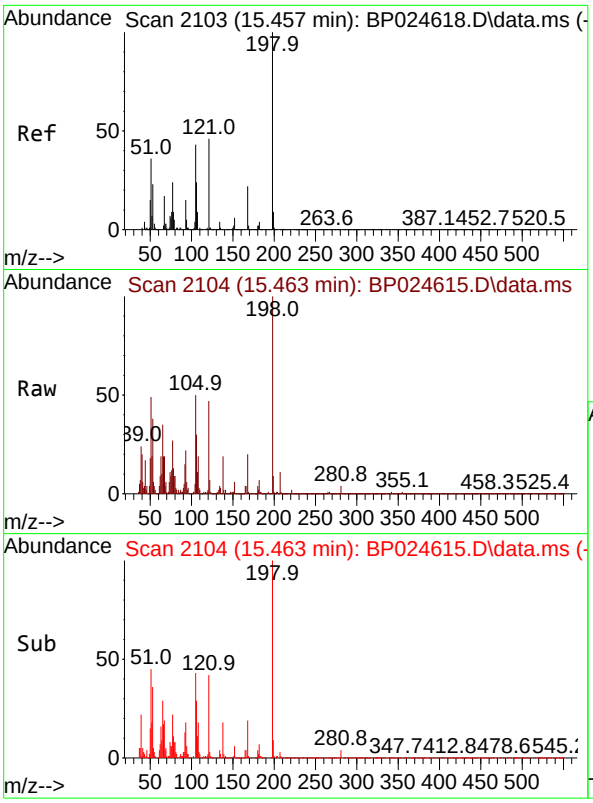


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.092 min Scan# 2381
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:188 Resp: 531548

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.5	9.7
80	9.1	7.3	10.9



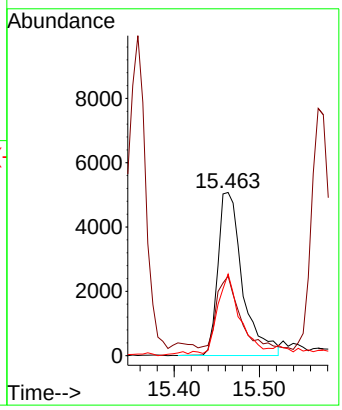


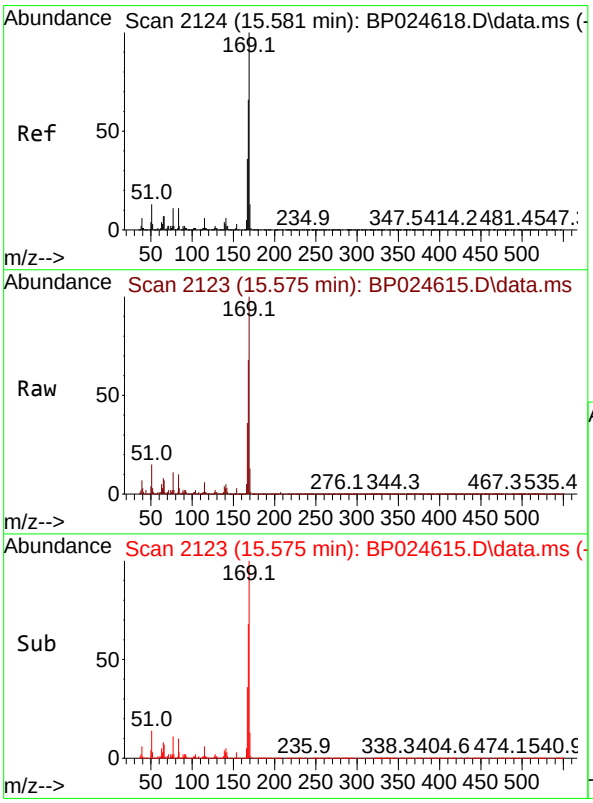
#65
4,6-Dinitro-2-methylphenol
Concen: 2.962 ng
RT: 15.463 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:198 Resp: 10171

Ion	Ratio	Lower	Upper
198	100		
51	48.7	21.1	61.1
105	50.0	23.6	63.6

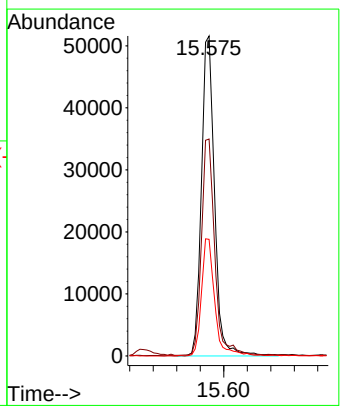


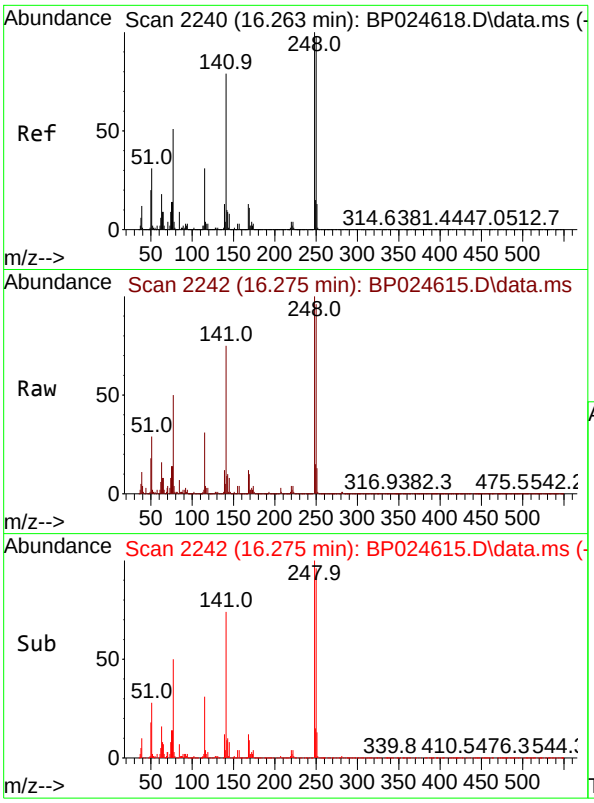


#66
n-Nitrosodiphenylamine
Concen: 4.905 ng
RT: 15.575 min Scan# 2123
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:169 Resp: 80078

Ion	Ratio	Lower	Upper
169	100		
168	67.8	53.2	79.8
167	36.5	28.6	43.0



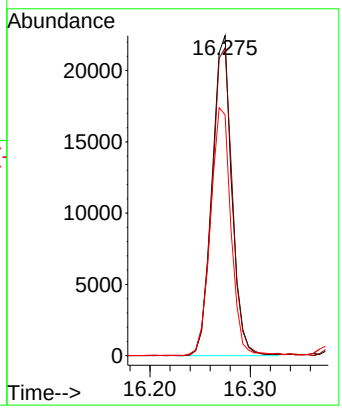


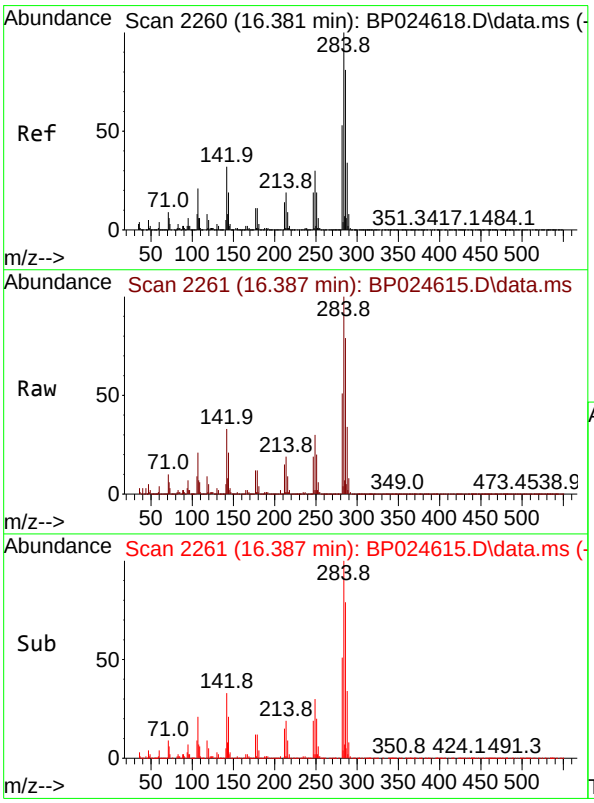
#67
4-Bromophenyl-phenylether
Concen: 4.902 ng
RT: 16.275 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:248 Resp: 30702

Ion	Ratio	Lower	Upper
248	100		
250	96.2	78.2	117.4
141	75.3	63.0	94.6

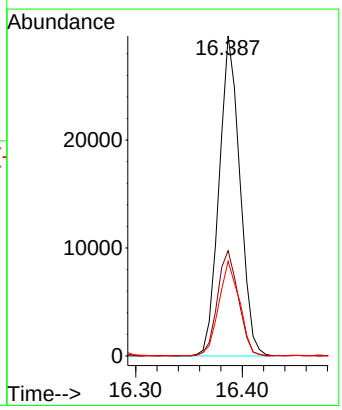


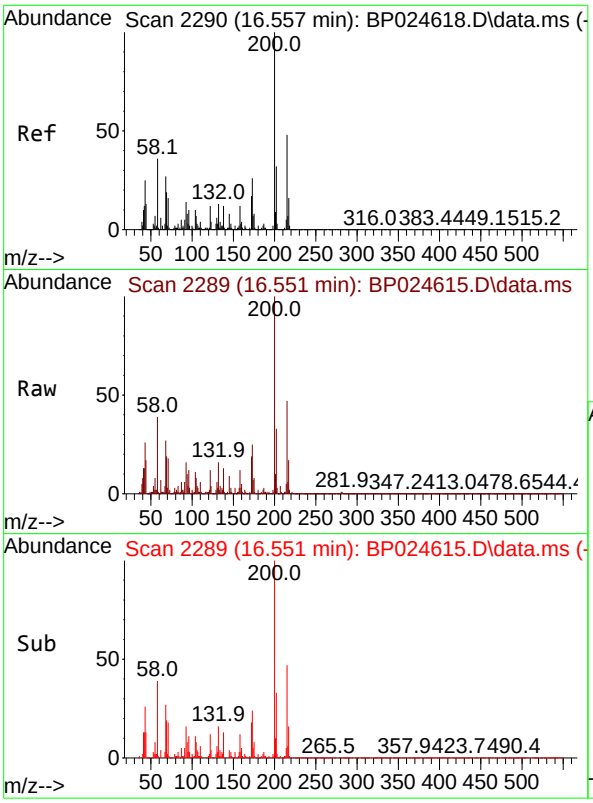


#68
Hexachlorobenzene
Concen: 5.055 ng
RT: 16.387 min Scan# 2261
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:284 Resp: 40234

Ion	Ratio	Lower	Upper
284	100		
142	32.9	25.9	38.9
249	29.6	24.1	36.1



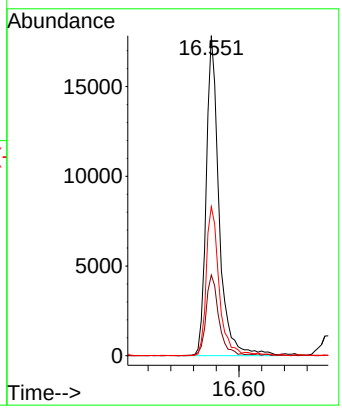


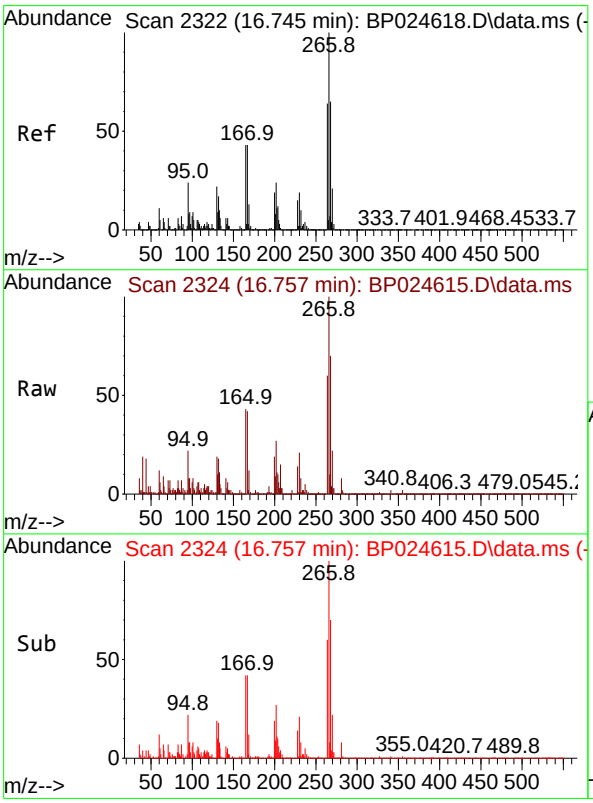
#69
Atrazine
Concen: 4.664 ng
RT: 16.551 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:200 Resp: 27909

Ion	Ratio	Lower	Upper
200	100		
173	25.2	5.9	45.9
215	46.5	28.3	68.3

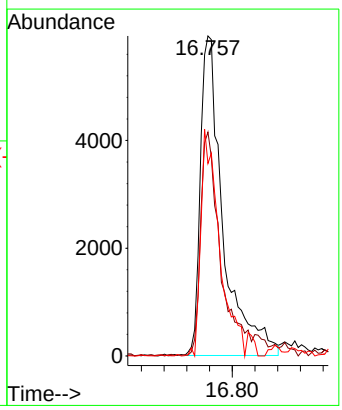


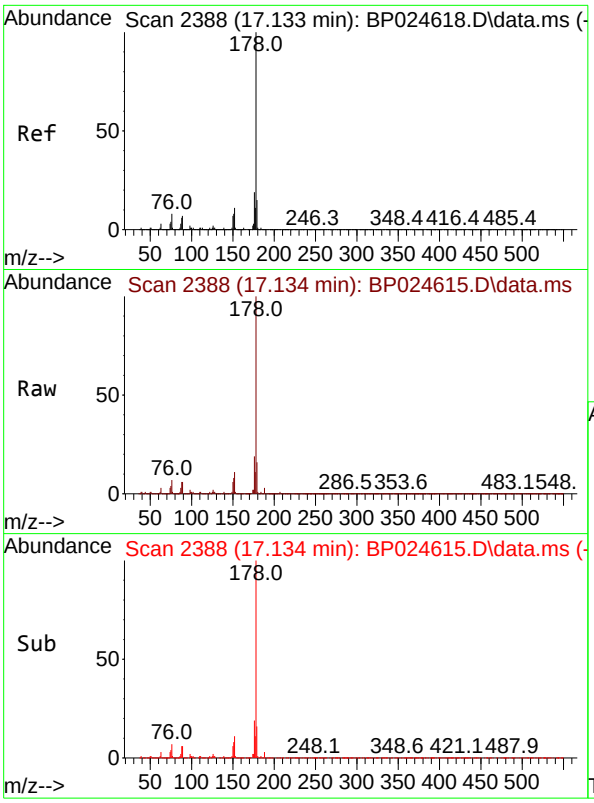


#70
Pentachlorophenol
Concen: 3.681 ng
RT: 16.757 min Scan# 2324
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:266 Resp: 16456

Ion	Ratio	Lower	Upper
266	100		
268	69.9	52.2	78.4
264	60.1	51.1	76.7



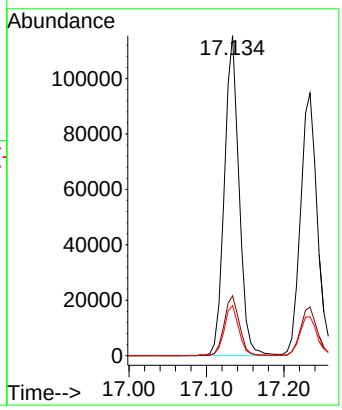


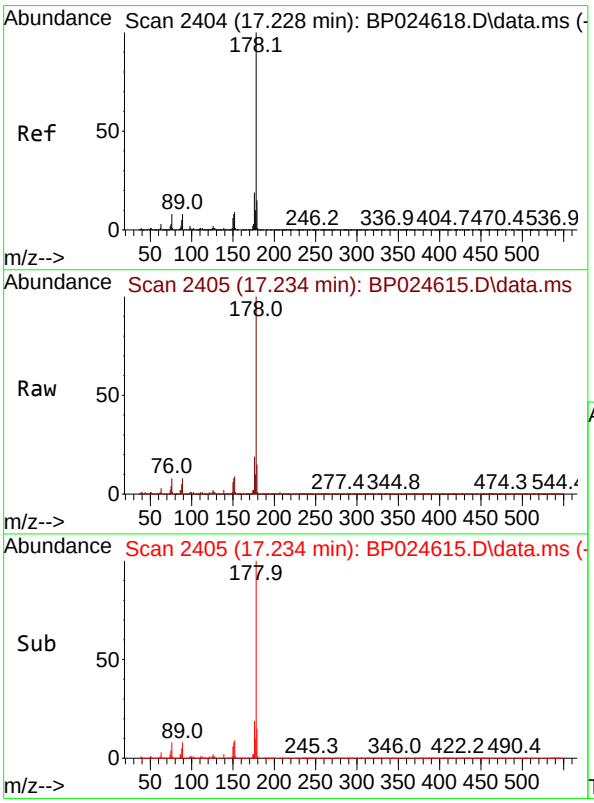
#71
Phenanthrene
Concen: 5.145 ng
RT: 17.134 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:178 Resp: 152030

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.4	23.2
179	15.7	12.2	18.4

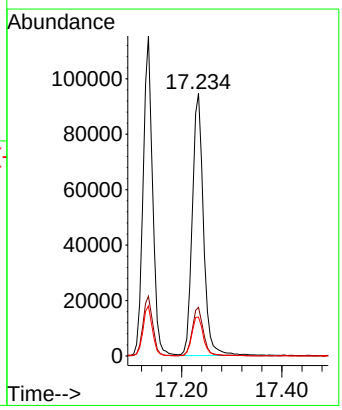


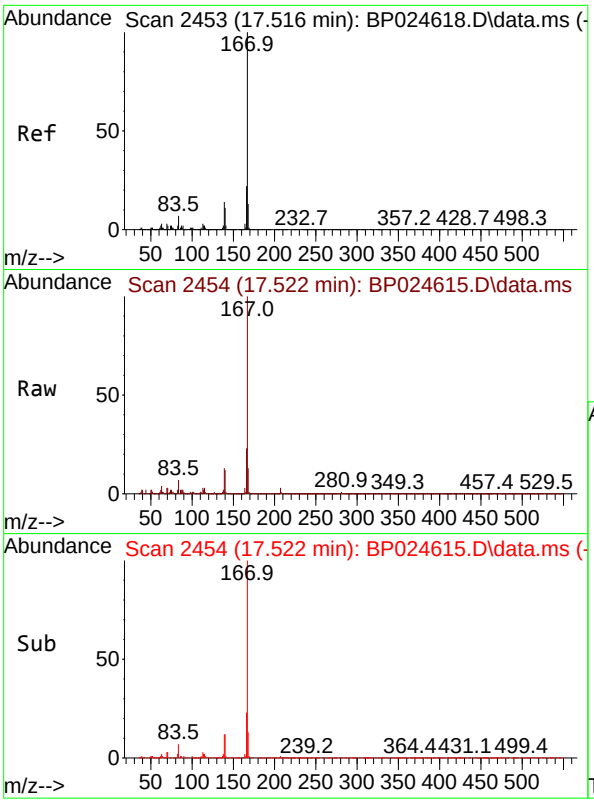


#72
Anthracene
Concen: 4.904 ng
RT: 17.234 min Scan# 2405
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:178 Resp: 145809

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.4
179	14.8	12.2	18.2



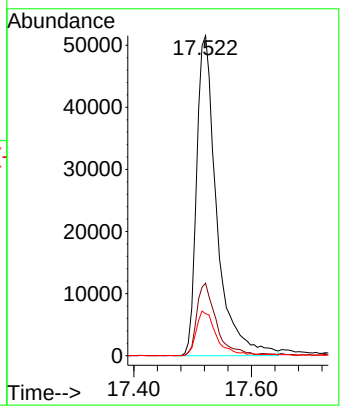


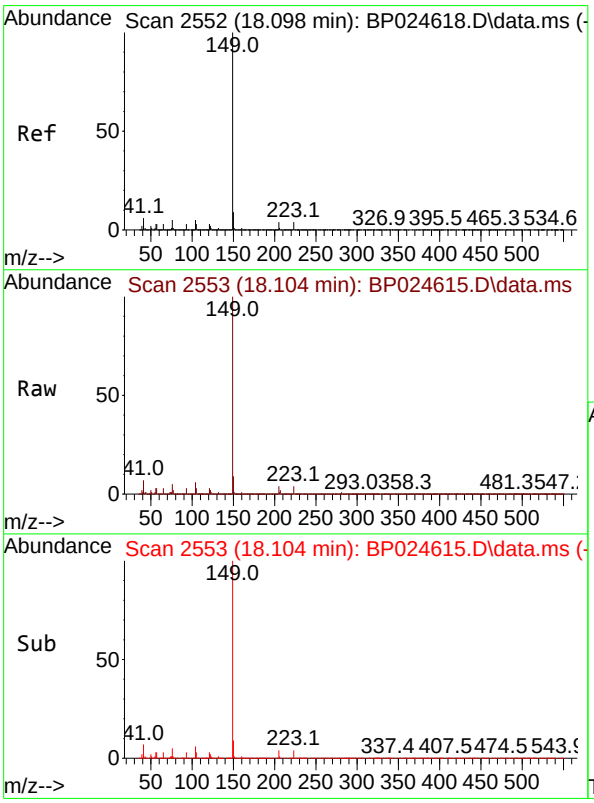
#73
Carbazole
Concen: 4.559 ng
RT: 17.522 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:167 Resp: 122666

Ion	Ratio	Lower	Upper
167	100		
166	22.6	17.7	26.5
139	13.1	11.3	16.9

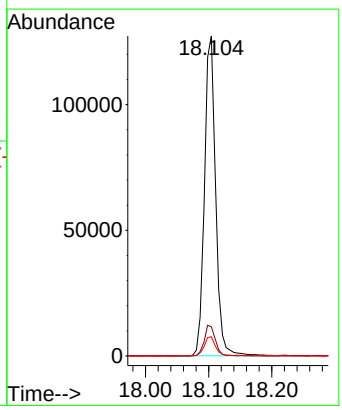


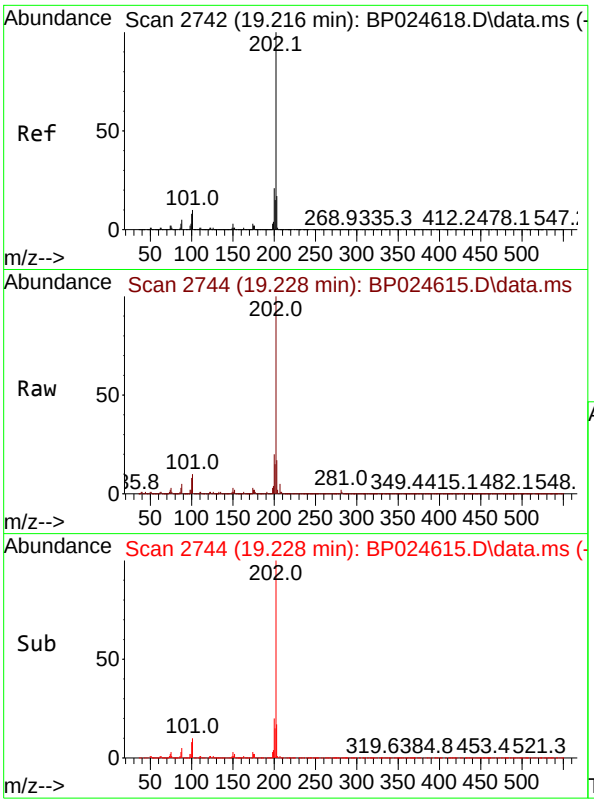


#74
Di-n-butylphthalate
Concen: 4.537 ng
RT: 18.104 min Scan# 2553
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:149 Resp: 157014

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	6.0	4.3	6.5



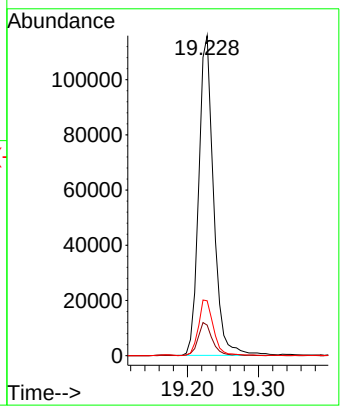


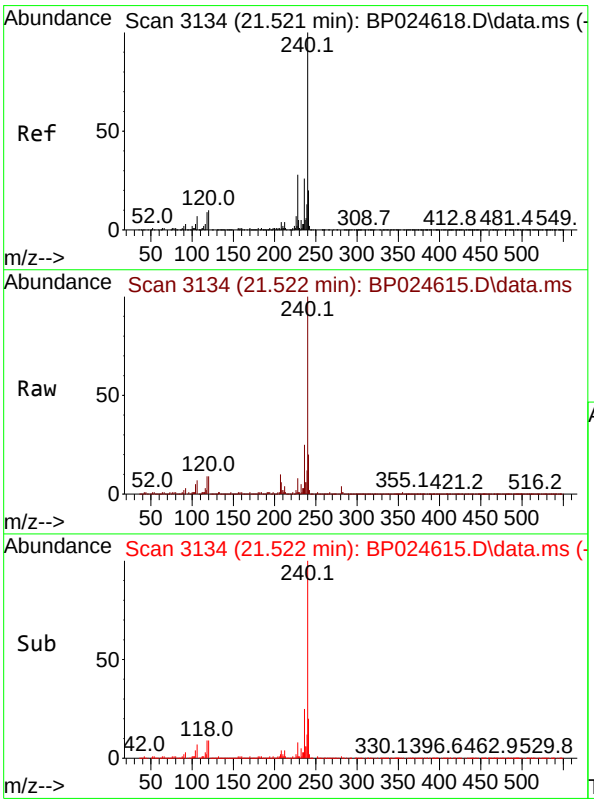
#75
Fluoranthene
Concen: 4.889 ng
RT: 19.228 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:202 Resp: 168865

Ion	Ratio	Lower	Upper
202	100		
101	9.5	0.0	30.3
203	17.2	0.0	37.5

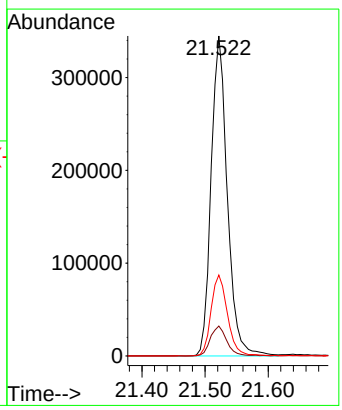


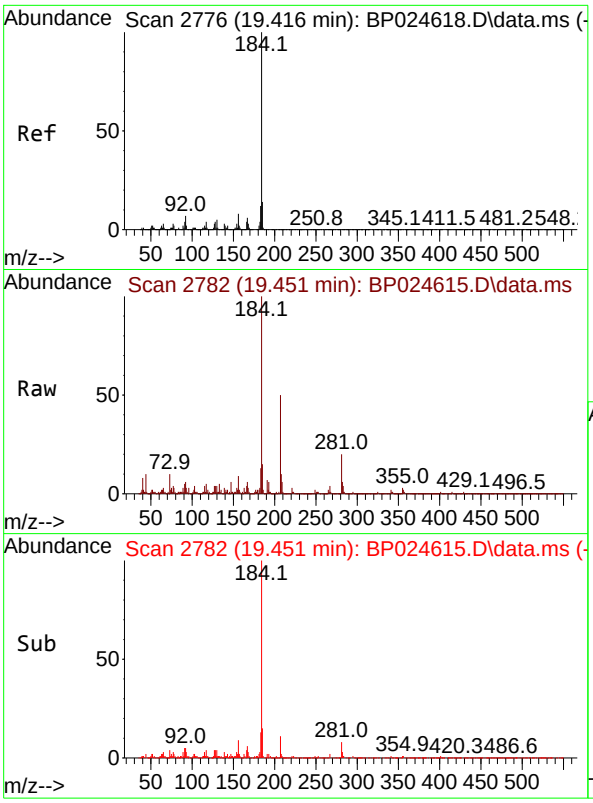


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.522 min Scan# 3134
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:240 Resp: 614288

Ion	Ratio	Lower	Upper
240	100		
120	9.4	7.8	11.6
236	25.3	20.6	31.0



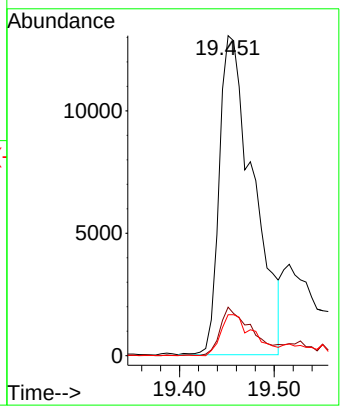


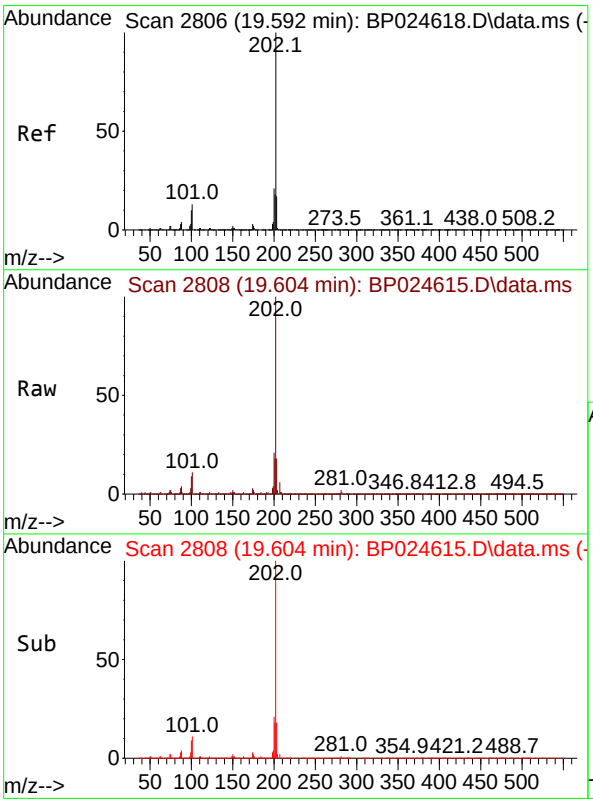
#77
Benzidine
Concen: 1.928 ng
RT: 19.451 min Scan# 2
Delta R.T. 0.035 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:184 Resp: 32514

Ion	Ratio	Lower	Upper
184	100		
185	15.2	11.2	16.8
183	12.8	9.8	14.8

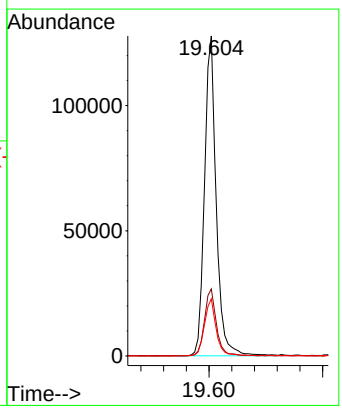


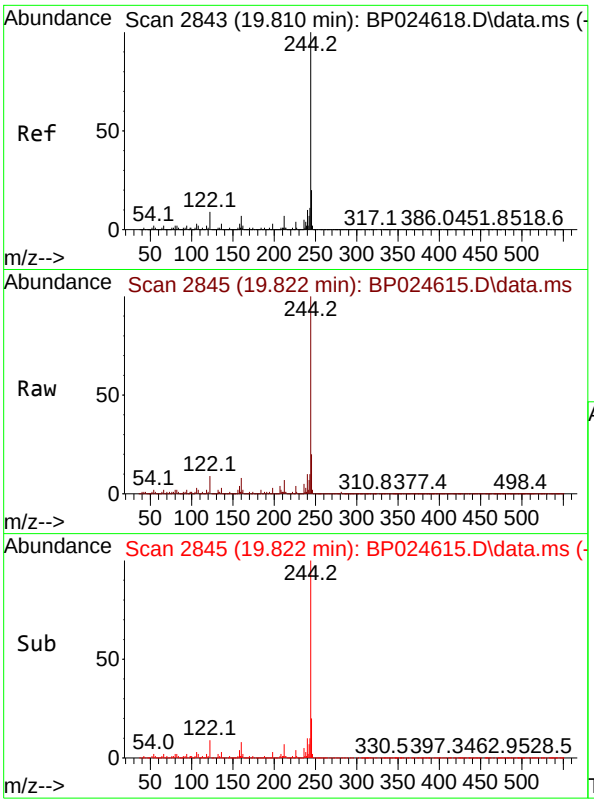


#78
Pyrene
Concen: 4.940 ng
RT: 19.604 min Scan# 2808
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:202 Resp: 181817

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.8	13.9	20.9



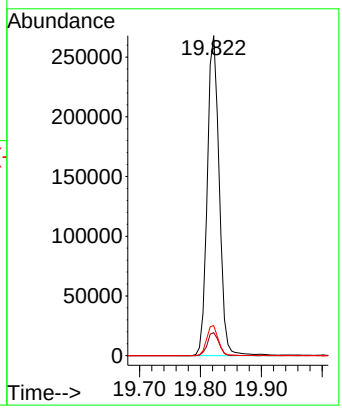


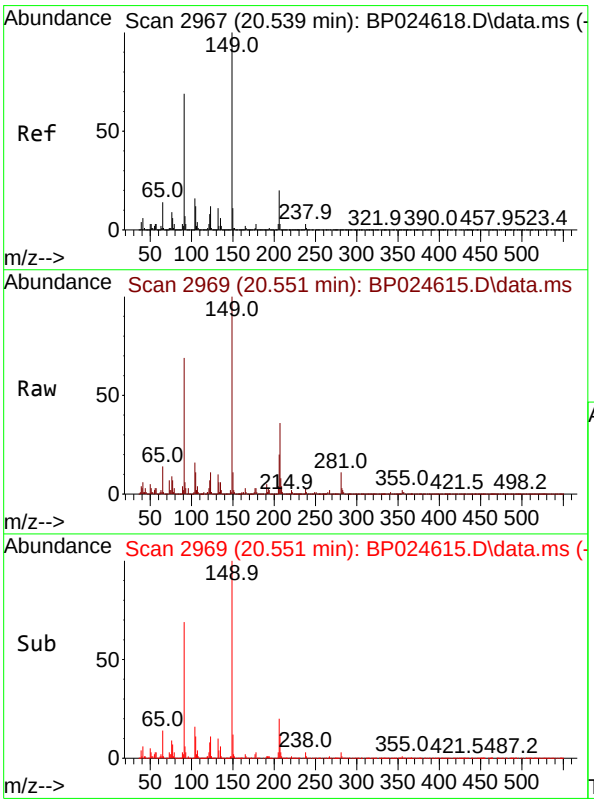
#79
Terphenyl-d14
Concen: 10.223 ng
RT: 19.822 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:244 Resp: 366245

Ion	Ratio	Lower	Upper
244	100		
212	7.2	5.5	8.3
122	9.4	7.4	11.0

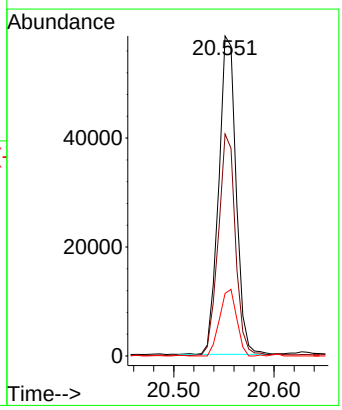


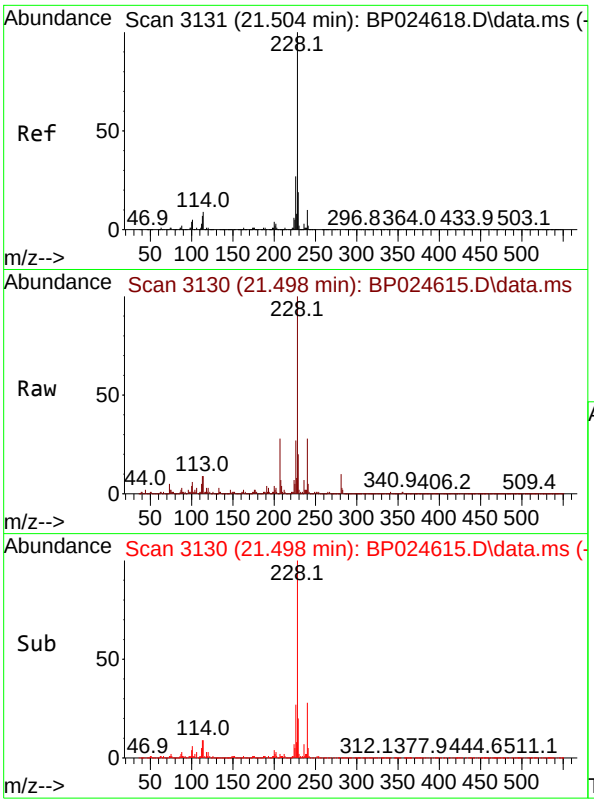


#80
Butylbenzylphthalate
Concen: 4.297 ng
RT: 20.551 min Scan# 2969
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:149 Resp: 70341

Ion	Ratio	Lower	Upper
149	100		
91	69.3	55.4	83.0
206	19.5	16.2	24.2



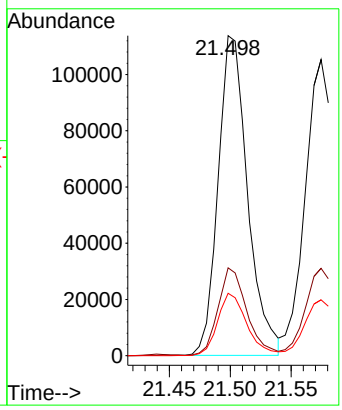


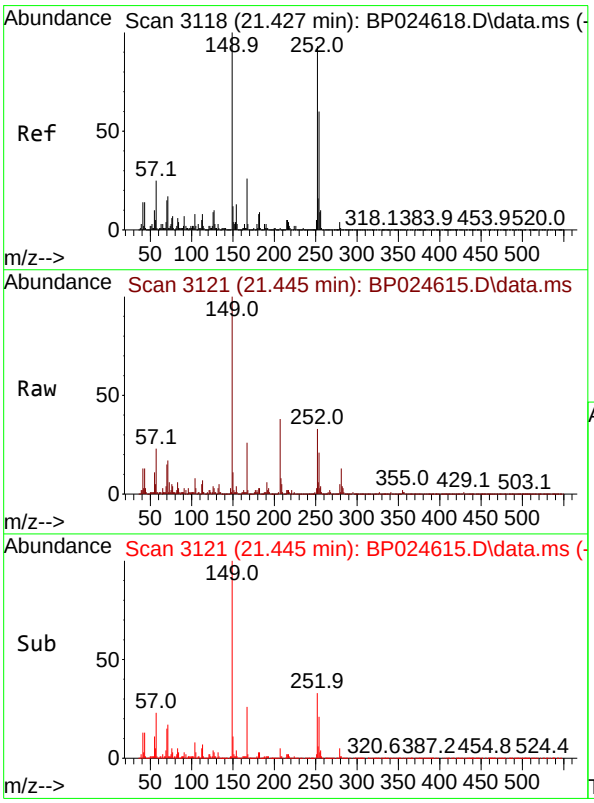
#81
Benzo(a)anthracene
Concen: 4.981 ng
RT: 21.498 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 192110

Ion	Ratio	Lower	Upper
228	100		
226	27.5	21.4	32.0
229	19.5	15.5	23.3

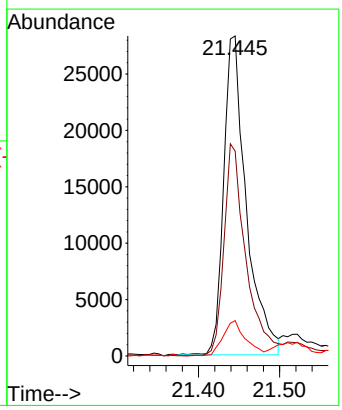


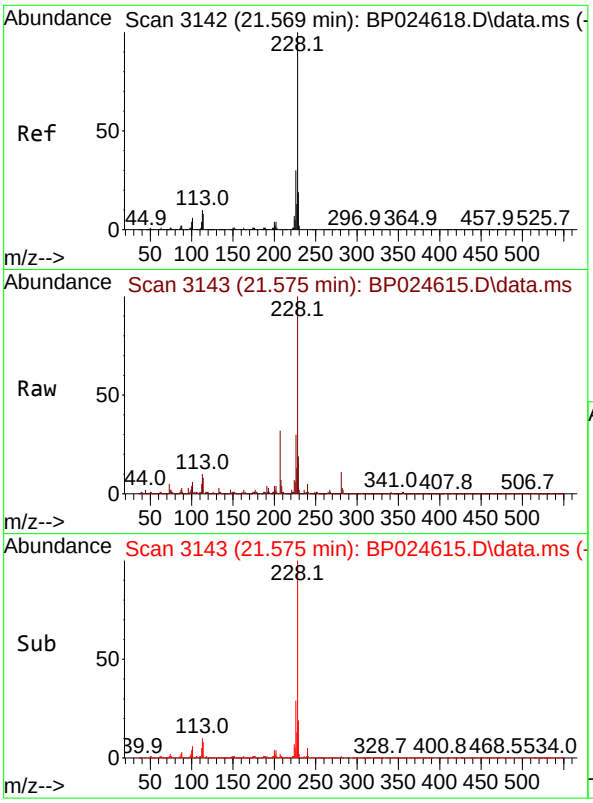


#82
3,3'-Dichlorobenzidine
Concen: 3.825 ng
RT: 21.445 min Scan# 3121
Delta R.T. 0.018 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:252 Resp: 54793

Ion	Ratio	Lower	Upper
252	100		
254	64.0	51.8	77.6
126	11.0	7.7	11.5



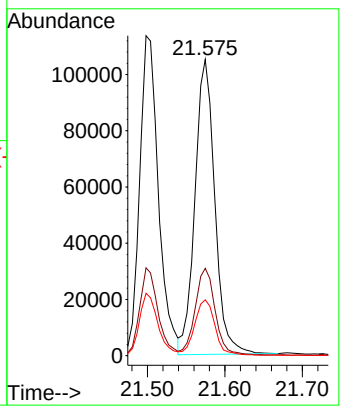


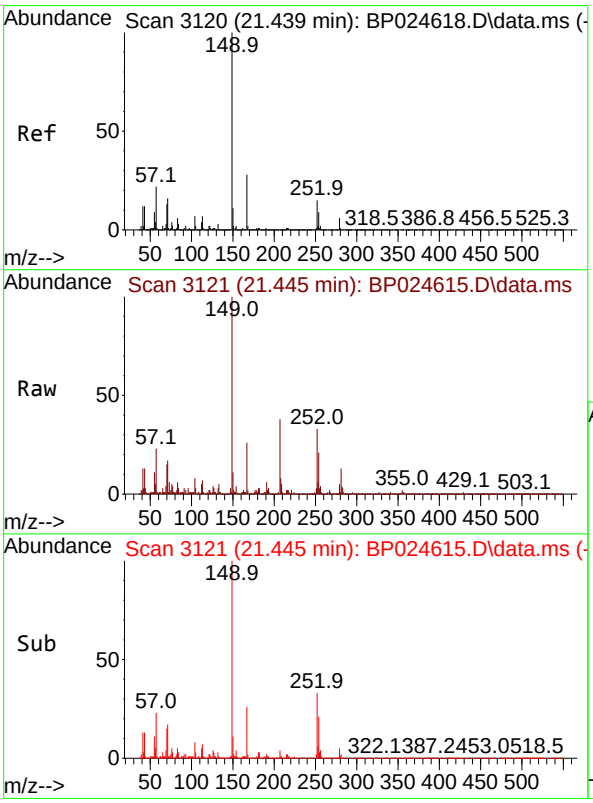
#83
Chrysene
Concen: 5.099 ng
RT: 21.575 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 186449

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.9	35.9
229	18.9	15.5	23.3

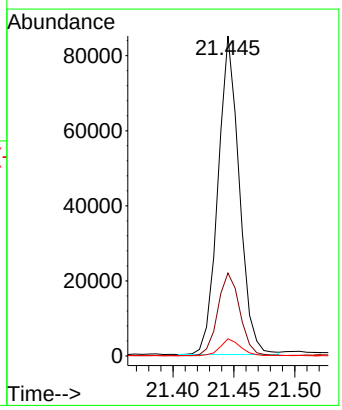


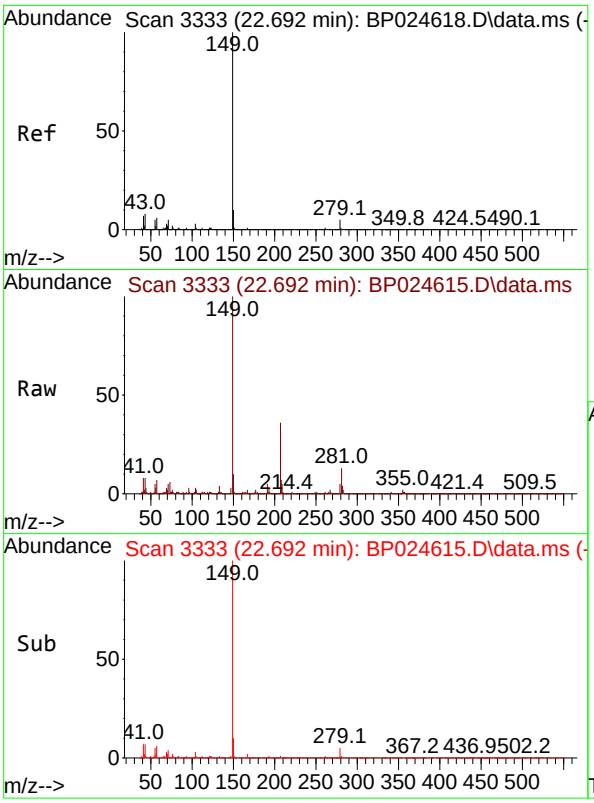


#84
Bis(2-ethylhexyl)phthalate
Concen: 4.293 ng
RT: 21.445 min Scan# 3121
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:149 Resp: 103286

Ion	Ratio	Lower	Upper
149	100		
167	25.9	22.1	33.1
279	5.4	4.6	6.8



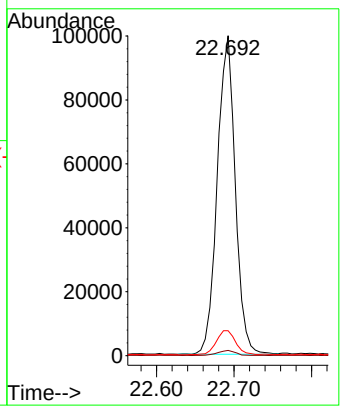


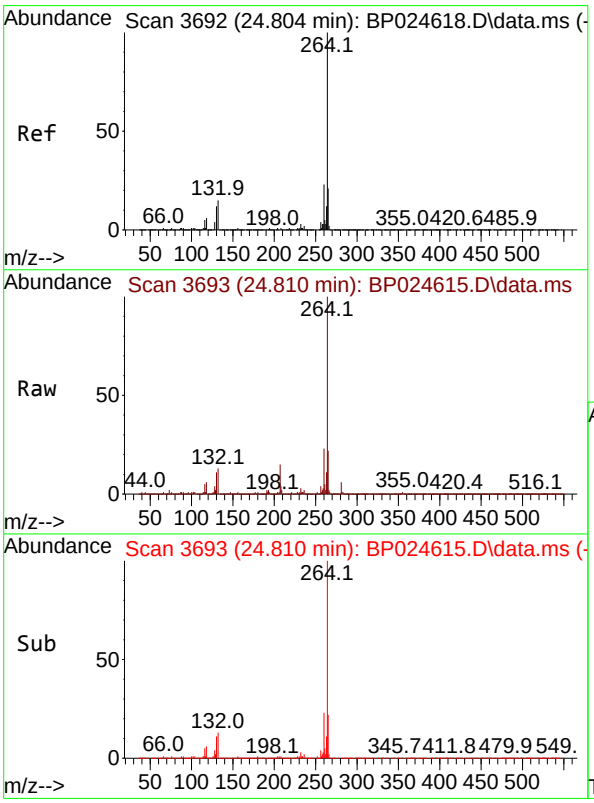
#85
Di-n-octyl phthalate
Concen: 4.089 ng
RT: 22.692 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 160883

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	8.2	6.3	9.5

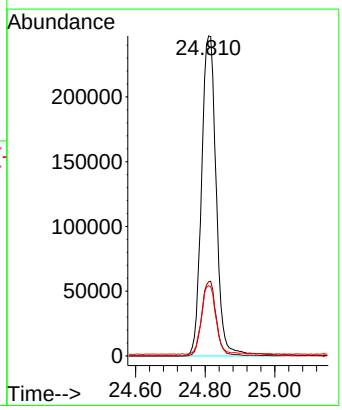


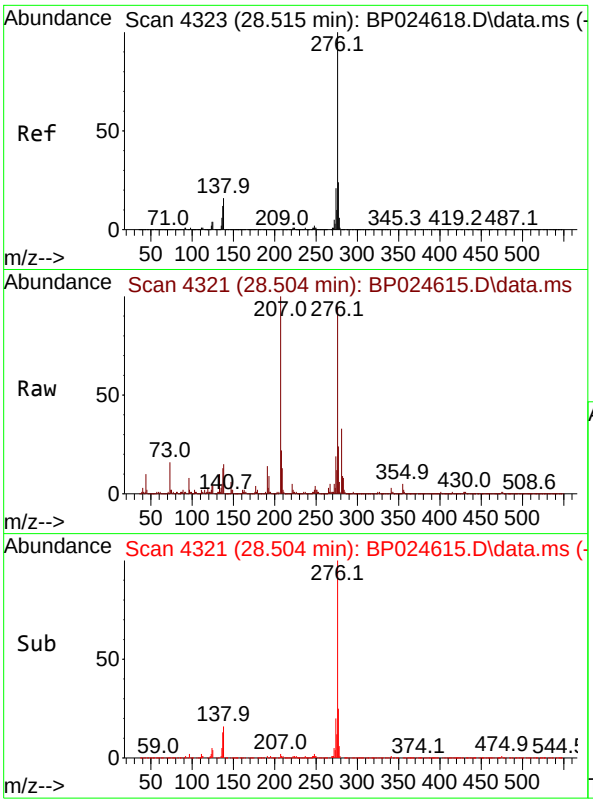


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.810 min Scan# 3693
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:264 Resp: 724260

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.7	28.1
265	22.0	17.0	25.6



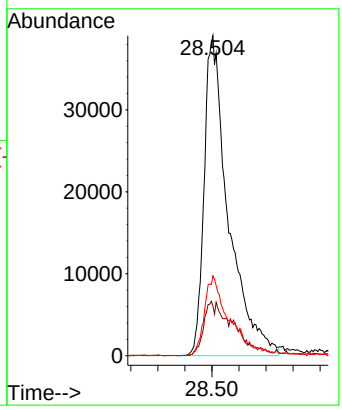


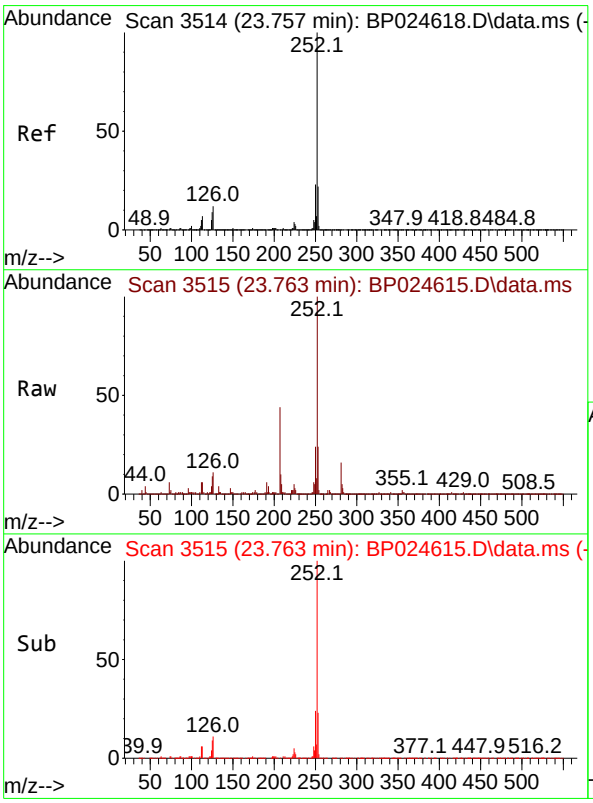
#87
Indeno(1,2,3-cd)pyrene
Concen: 4.591 ng
RT: 28.504 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:276 Resp: 242814

Ion	Ratio	Lower	Upper
276	100		
138	7.4	11.2	16.8#
277	24.4	15.7	23.5#

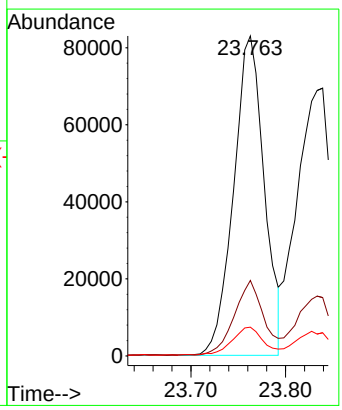


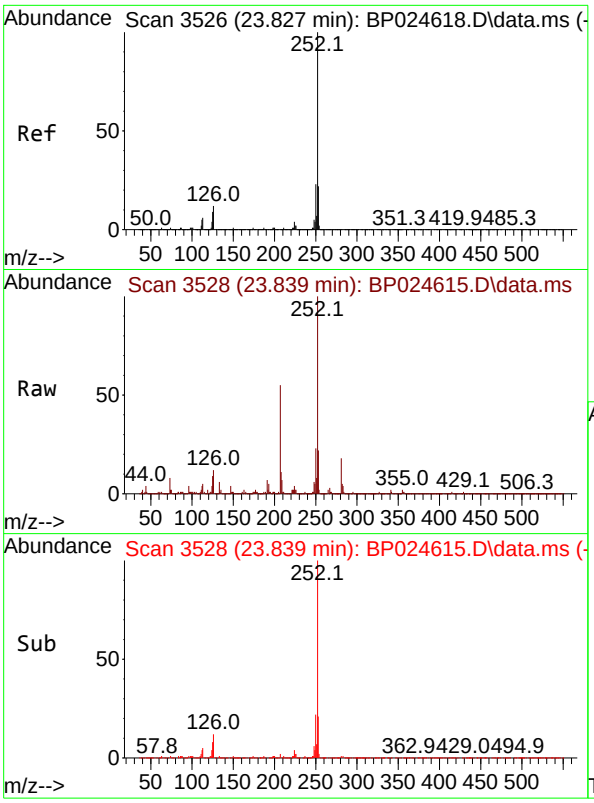


#88
Benzo(b)fluoranthene
Concen: 4.488 ng
RT: 23.763 min Scan# 3515
Delta R.T. 0.006 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:252 Resp: 186058

Ion	Ratio	Lower	Upper
252	100		
253	23.6	17.7	26.5
125	9.0	7.5	11.3



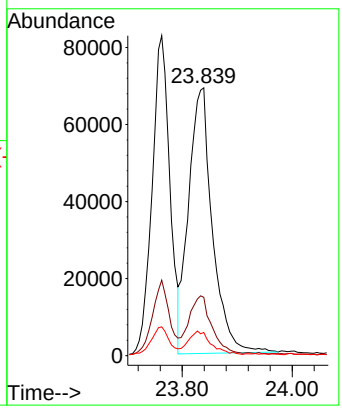


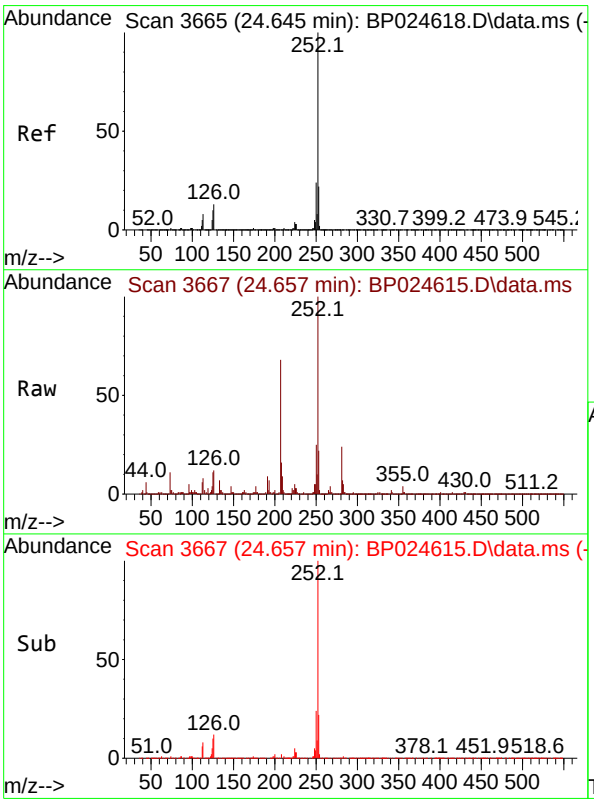
#89
Benzo(k)fluoranthene
Concen: 4.861 ng
RT: 23.839 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 207645

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	8.7	7.0	10.4

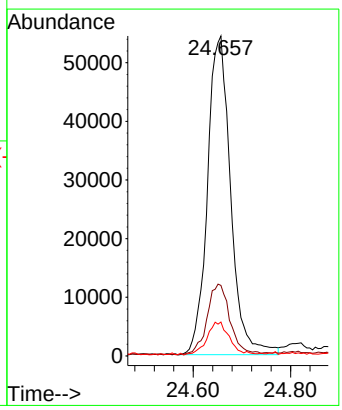


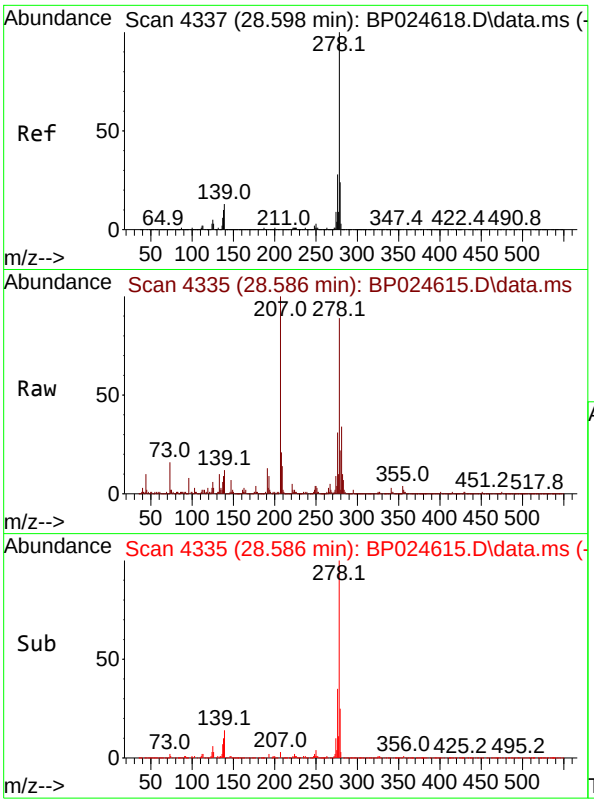


#90
Benzo(a)pyrene
Concen: 4.525 ng
RT: 24.657 min Scan# 3667
Delta R.T. 0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:252 Resp: 180157

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	10.6	8.1	12.1



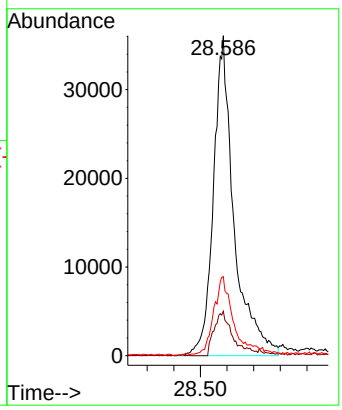


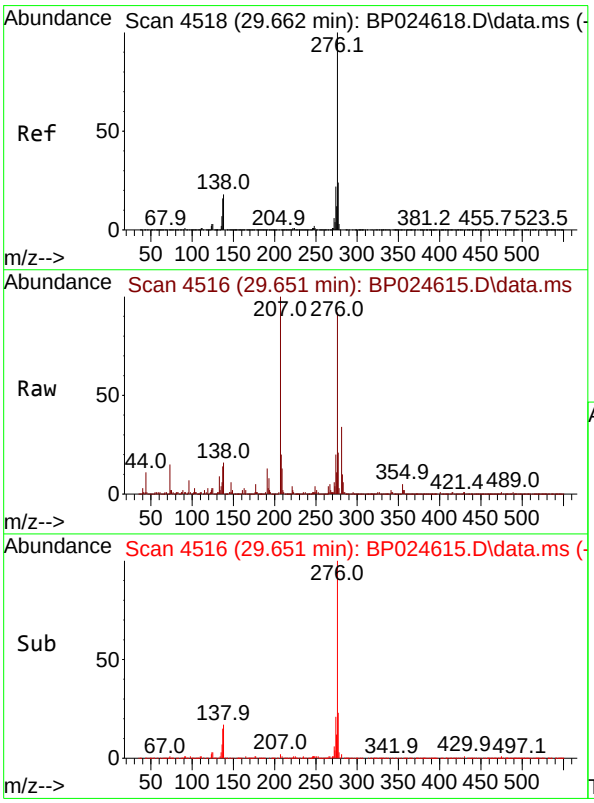
#91
Dibenzo(a,h)anthracene
Concen: 4.495 ng
RT: 28.586 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Instrument :
BNA_P
ClientSampleId :
SSTDICC005

Tgt Ion:278 Resp: 193373

Ion	Ratio	Lower	Upper
278	100		
139	13.9	10.2	15.4
279	24.7	19.0	28.4

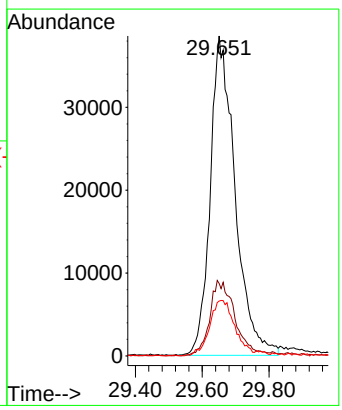




#92
Benzo(g,h,i)perylene
Concen: 4.660 ng
RT: 29.651 min Scan# 4516
Delta R.T. -0.012 min
Lab File: BP024615.D
Acq: 13 May 2025 11:22

Tgt Ion:276 Resp: 199361

Ion	Ratio	Lower	Upper
276	100		
277	22.7	19.0	28.4
138	17.2	14.4	21.6



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024616.D
Acq On : 13 May 2025 12:03
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Quant Time: May 13 16:04:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.663	152	94972	20.000	ng		0.00
21) Naphthalene-d8	10.434	136	398657	20.000	ng		0.00
39) Acenaphthene-d10	14.292	164	268335	20.000	ng		-0.01
64) Phenanthrene-d10	17.098	188	556673	20.000	ng		0.00
76) Chrysene-d12	21.516	240	659092	20.000	ng		0.00
86) Perylene-d12	24.798	264	780142	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.293	112	104115	18.750	ng		0.00
7) Phenol-d6	6.858	99	127652	18.013	ng		0.00
23) Nitrobenzene-d5	8.810	82	149876	18.996	ng		0.00
42) 2,4,6-Tribromophenol	15.810	330	86099	18.927	ng		0.00
45) 2-Fluorobiphenyl	12.904	172	401986	19.627	ng		0.00
79) Terphenyl-d14	19.822	244	733687	19.088	ng		0.01
Target Compounds							Qvalue
2) 1,4-Dioxane	3.228	88	26472	10.153	ng		99
3) Pyridine	3.634	79	53915	9.325	ng		98
4) n-Nitrosodimethylamine	3.540	42	24093	9.439	ng	#	96
6) Aniline	7.005	93	80863	8.838	ng		99
8) 2-Chlorophenol	7.240	128	57182	9.071	ng		99
9) Benzaldehyde	6.822	77	48904	10.679	ng		97
10) Phenol	6.881	94	66520	9.094	ng		96
11) bis(2-Chloroethyl)ether	7.093	93	55575	9.247	ng		99
12) 1,3-Dichlorobenzene	7.557	146	70590	9.734	ng		100
13) 1,4-Dichlorobenzene	7.699	146	71467	9.798	ng		99
14) 1,2-Dichlorobenzene	8.010	146	69643	9.799	ng		96
15) Benzyl Alcohol	7.916	79	45094	8.373	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.187	45	68599	9.531	ng		98
17) 2-Methylphenol	8.116	107	45071	8.591	ng		96
18) Hexachloroethane	8.728	117	28078	10.045	ng		96
19) n-Nitroso-di-n-propyla...	8.463	70	45927	9.369	ng		96
20) 3+4-Methylphenols	8.446	107	61832	8.665	ng		95
22) Acetophenone	8.481	105	95803	9.620	ng	#	99
24) Nitrobenzene	8.857	77	67735	9.755	ng		98
25) Isophorone	9.375	82	127474	9.314	ng		99
26) 2-Nitrophenol	9.563	139	28470	8.368	ng		94
27) 2,4-Dimethylphenol	9.628	122	55664	9.279	ng		98
28) bis(2-Chloroethoxy)met...	9.851	93	78019	9.542	ng		97
29) 2,4-Dichlorophenol	10.110	162	51386	8.840	ng		98
30) 1,2,4-Trichlorobenzene	10.304	180	64245	9.807	ng		96
31) Naphthalene	10.481	128	204468	9.897	ng		99
32) Benzoic acid	9.746	122	8077	8.435	ng		92
33) 4-Chloroaniline	10.610	127	73990	8.876	ng		99
34) Hexachlorobutadiene	10.769	225	42567	10.031	ng		97
35) Caprolactam	11.381	113	16855	8.019	ng		97
36) 4-Chloro-3-methylphenol	11.746	107	64857	9.149	ng		98
37) 2-Methylnaphthalene	12.098	142	130412	9.749	ng		100
38) 1-Methylnaphthalene	12.316	142	139573	9.752	ng		100
40) 1,2,4,5-Tetrachloroben...	12.475	216	74824	9.603	ng		100
41) Hexachlorocyclopentadiene	12.451	237	37072	7.846	ng		98
43) 2,4,6-Trichlorophenol	12.722	196	45798	9.074	ng		96

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024616.D
Acq On : 13 May 2025 12:03
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Quant Time: May 13 16:04:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.810	196	50348	8.962	ng		94
46) 1,1'-Biphenyl	13.122	154	192445	9.703	ng		100
47) 2-Chloronaphthalene	13.163	162	148443	9.816	ng		99
48) 2-Nitroaniline	13.375	65	40786	9.110	ng		93
49) Acenaphthylene	14.010	152	243913	9.638	ng		98
50) Dimethylphthalate	13.751	163	204825	10.015	ng		99
51) 2,6-Dinitrotoluene	13.869	165	41257	9.551	ng		92
52) Acenaphthene	14.357	154	141360	9.717	ng		99
53) 3-Nitroaniline	14.216	138	36906	8.368	ng		99
54) 2,4-Dinitrophenol	14.439	184	13128	10.835	ng		95
55) Dibenzofuran	14.704	168	230286	9.924	ng		99
56) 4-Nitrophenol	14.575	139	21349	9.529	ng		93
57) 2,4-Dinitrotoluene	14.675	165	56617	9.297	ng		94
58) Fluorene	15.357	166	189781	10.030	ng		100
59) 2,3,4,6-Tetrachlorophenol	14.939	232	48821	9.368	ng		99
60) Diethylphthalate	15.134	149	206886	10.008	ng		99
61) 4-Chlorophenyl-phenyle...	15.357	204	93517	9.910	ng		97
62) 4-Nitroaniline	15.404	138	27520	6.409	ng		92
63) Azobenzene	15.657	77	174322	9.858	ng		98
65) 4,6-Dinitro-2-methylph...	15.457	198	26174	7.279	ng		96
66) n-Nitrosodiphenylamine	15.575	169	164008	9.592	ng		99
67) 4-Bromophenyl-phenylether	16.269	248	62011	9.454	ng		97
68) Hexachlorobenzene	16.392	284	80088	9.609	ng		98
69) Atrazine	16.551	200	58245	9.295	ng		99
70) Pentachlorophenol	16.757	266	36201	7.733	ng		99
71) Phenanthrene	17.139	178	301863	9.754	ng		100
72) Anthracene	17.239	178	296146	9.512	ng		100
73) Carbazole	17.522	167	262687	9.322	ng		100
74) Di-n-butylphthalate	18.116	149	338893	9.351	ng		100
75) Fluoranthene	19.227	202	349083	9.650	ng		99
77) Benzidine	19.445	184	96179	5.316	ng		99
78) Pyrene	19.604	202	374573	9.485	ng		100
80) Butylbenzylphthalate	20.551	149	153275	8.727	ng		99
81) Benzo(a)anthracene	21.498	228	401322	9.697	ng		99
82) 3,3'-Dichlorobenzidine	21.433	252	129324	8.413	ng		99
83) Chrysene	21.569	228	388846	9.912	ng		98
84) Bis(2-ethylhexyl)phtha...	21.439	149	225047	8.718	ng		100
85) Di-n-octyl phthalate	22.680	149	367934	8.716	ng		100
87) Indeno(1,2,3-cd)pyrene	28.503	276	529260	9.290	ng	#	92
88) Benzo(b)fluoranthene	23.751	252	417343	9.346	ng		99
89) Benzo(k)fluoranthene	23.821	252	431575	9.379	ng		99
90) Benzo(a)pyrene	24.627	252	390288	9.100	ng		100
91) Dibenzo(a,h)anthracene	28.574	278	415768	8.973	ng		99
92) Benzo(g,h,i)perylene	29.650	276	431559	9.366	ng		97

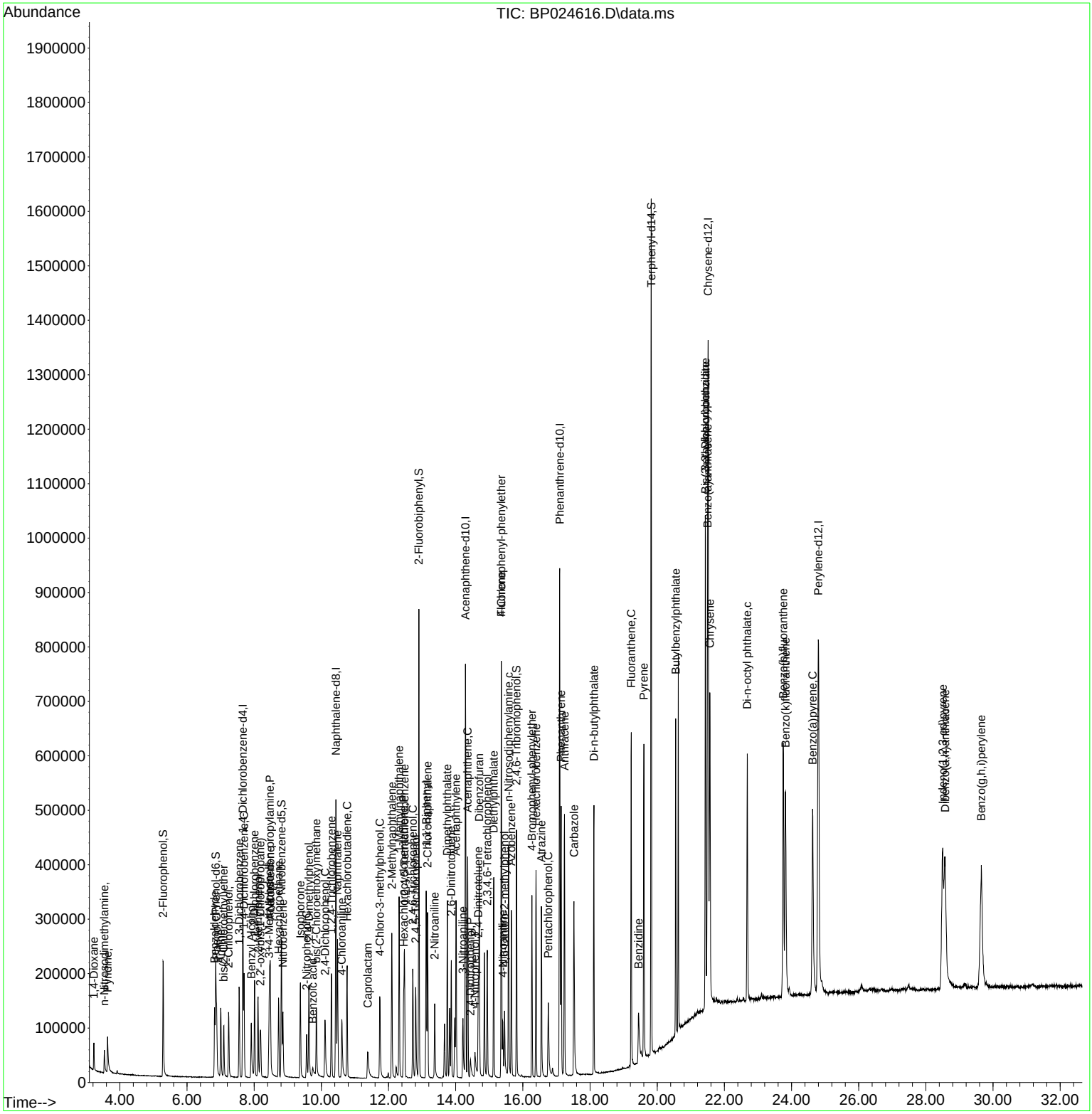
(#) = qualifier out of range (m) = manual integration (+) = signals summed

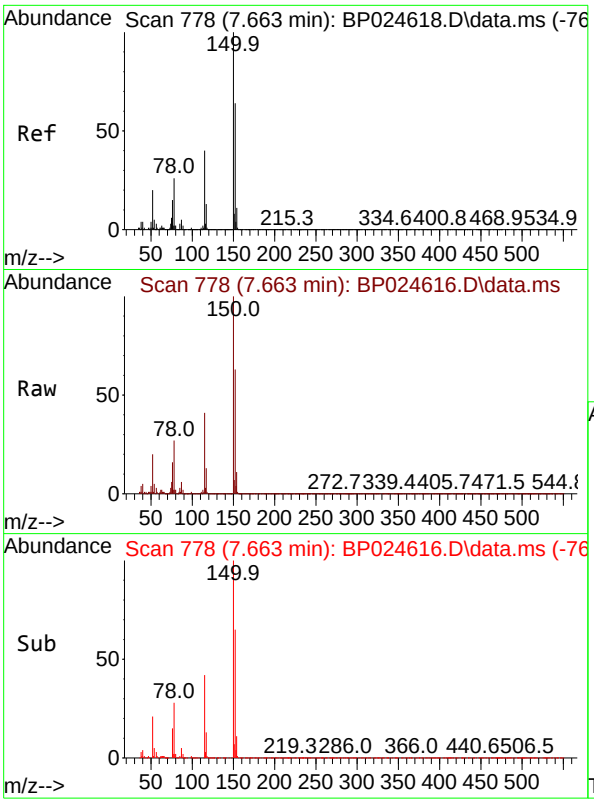
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024616.D
Acq On : 13 May 2025 12:03
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Quant Time: May 13 16:04:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration



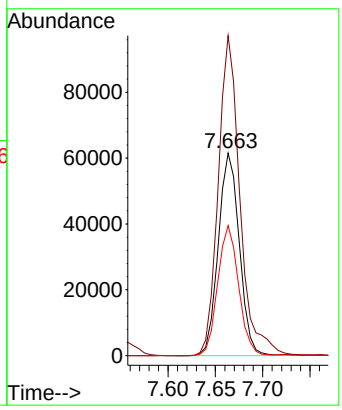


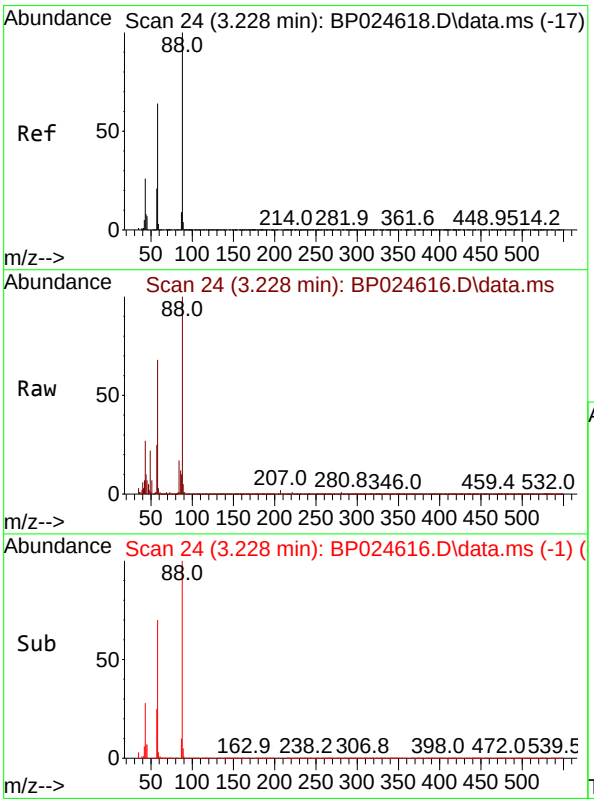
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.663 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 94972

Ion	Ratio	Lower	Upper
152	100		
150	158.0	125.9	188.9
115	64.2	50.1	75.1

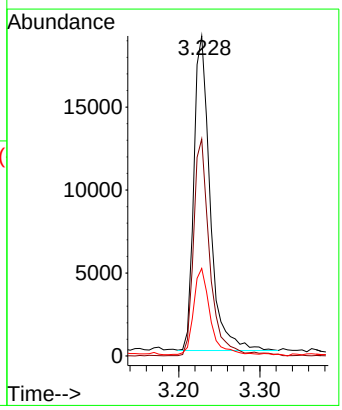


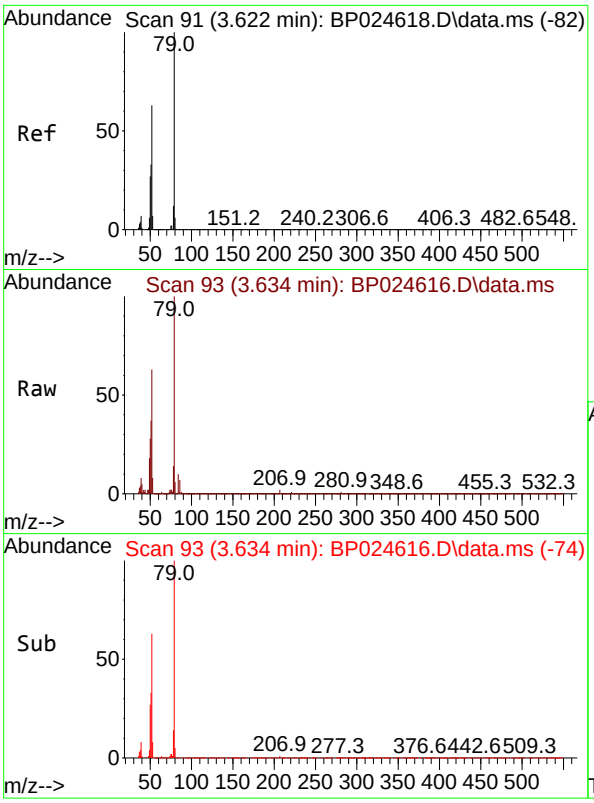


#2
1,4-Dioxane
Concen: 10.153 ng
RT: 3.228 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 88 Resp: 26472

Ion	Ratio	Lower	Upper
88	100		
58	67.6	54.0	81.0
43	27.8	21.4	32.0



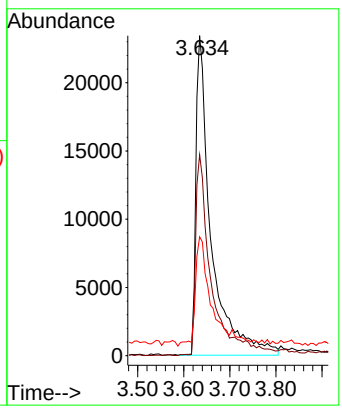


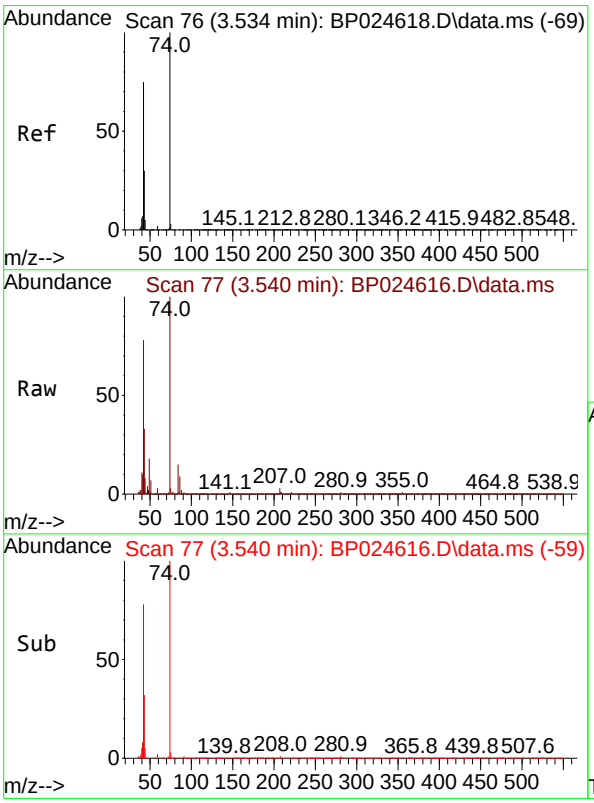
#3
Pyridine
Concen: 9.325 ng
RT: 3.634 min Scan# 9
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 53915

Ion	Ratio	Lower	Upper
79	100		
52	62.8	50.2	75.2
51	37.1	26.8	40.2

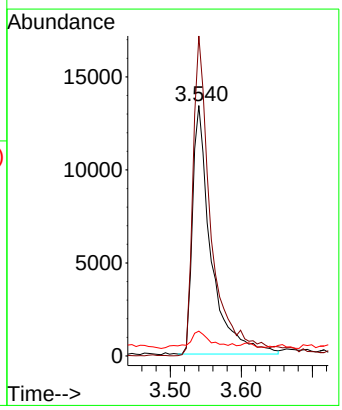


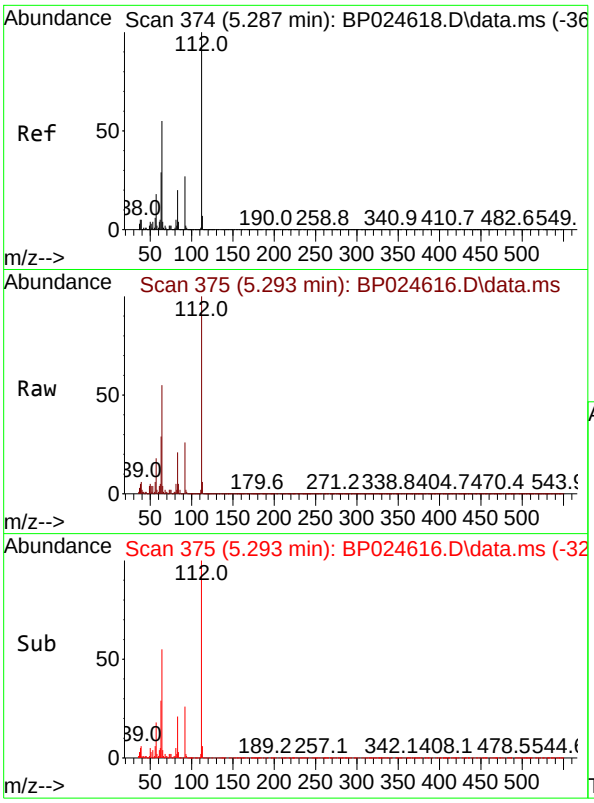


#4
n-Nitrosodimethylamine
Concen: 9.439 ng
RT: 3.540 min Scan# 77
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 42 Resp: 24093

Ion	Ratio	Lower	Upper
42	100		
74	127.8	106.2	159.2
44	9.9	5.4	8.2#



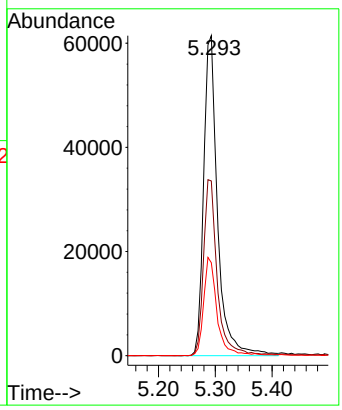


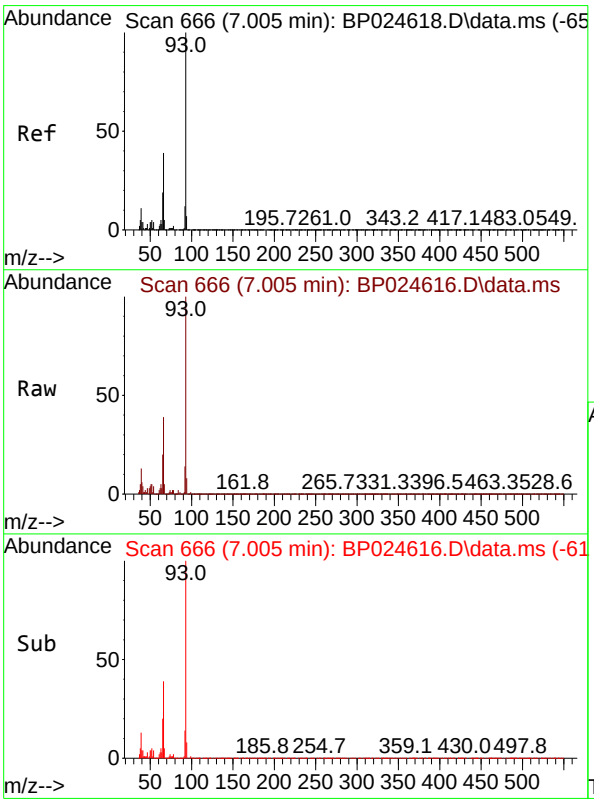
#5
2-Fluorophenol
Concen: 18.750 ng
RT: 5.293 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:112 Resp: 104115

Ion	Ratio	Lower	Upper
112	100		
64	54.6	44.1	66.1
63	29.0	23.5	35.3

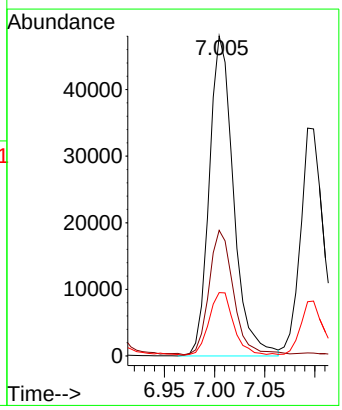


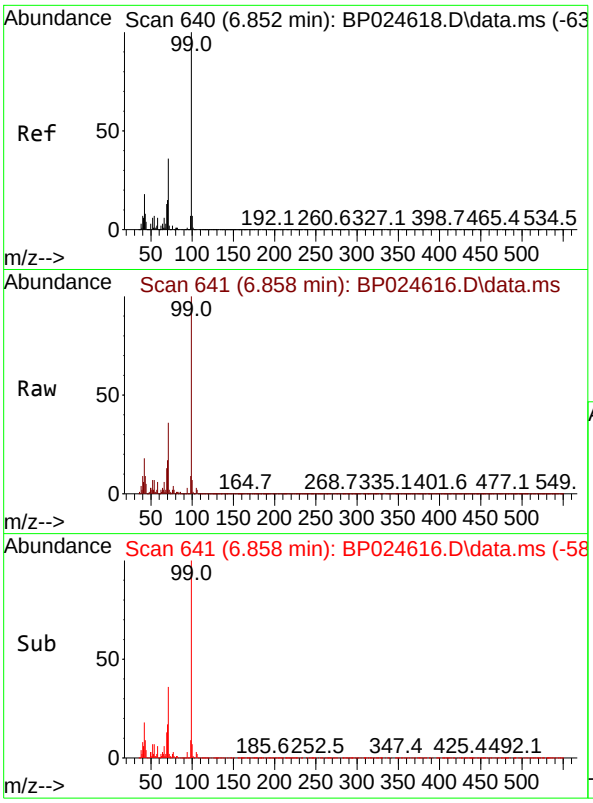


#6
Aniline
Concen: 8.838 ng
RT: 7.005 min Scan# 666
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 93 Resp: 80863

Ion	Ratio	Lower	Upper
93	100		
66	39.2	31.0	46.6
65	19.8	15.5	23.3



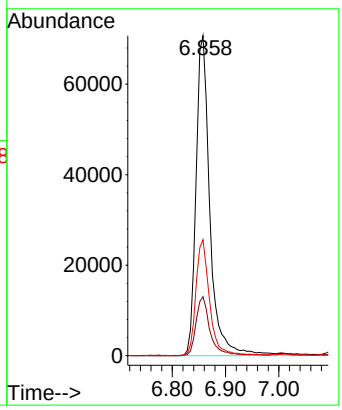


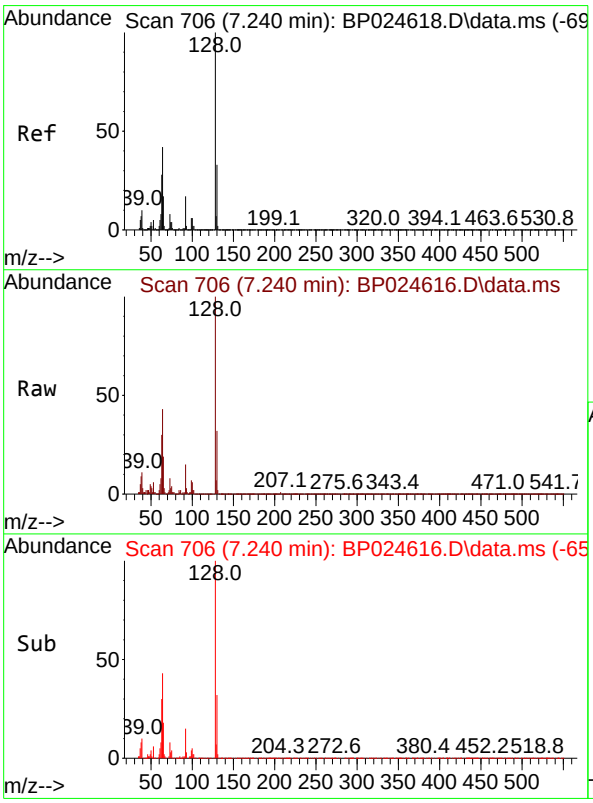
#7
Phenol-d6
Concen: 18.013 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 99 Resp: 127652

Ion	Ratio	Lower	Upper
99	100		
42	18.4	14.4	21.6
71	36.3	29.2	43.8

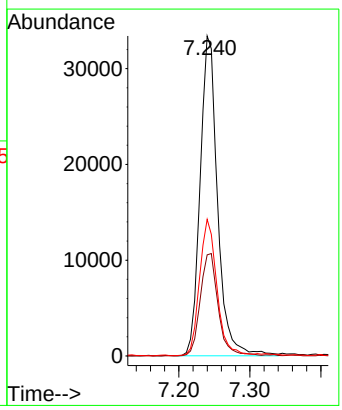


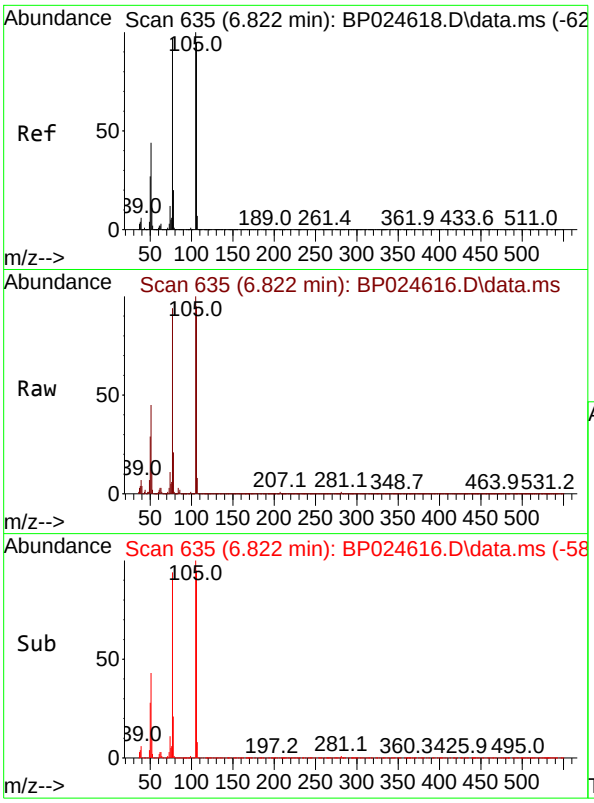


#8
2-Chlorophenol
Concen: 9.071 ng
RT: 7.240 min Scan# 706
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:128 Resp: 57182

Ion	Ratio	Lower	Upper
128	100		
130	31.6	13.0	53.0
64	42.7	22.3	62.3



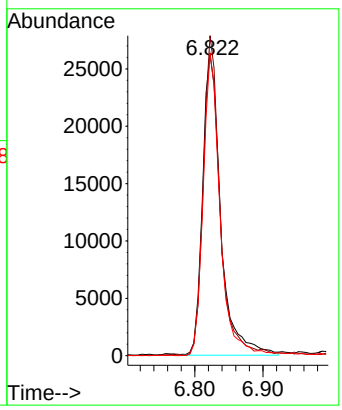


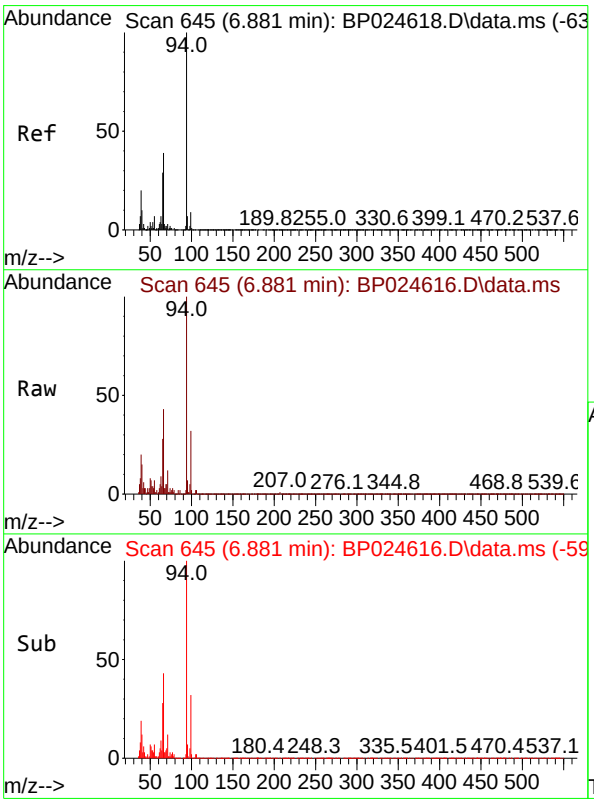
#9
Benzaldehyde
Concen: 10.679 ng
RT: 6.822 min Scan# 6
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 48904

Ion	Ratio	Lower	Upper
77	100		
105	106.2	83.3	123.3
106	100.5	78.0	118.0

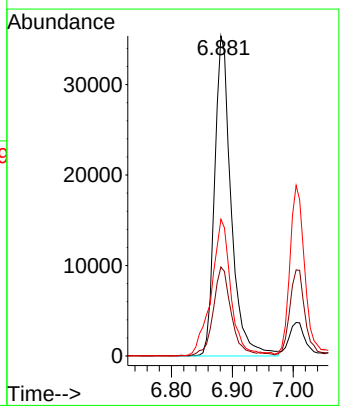


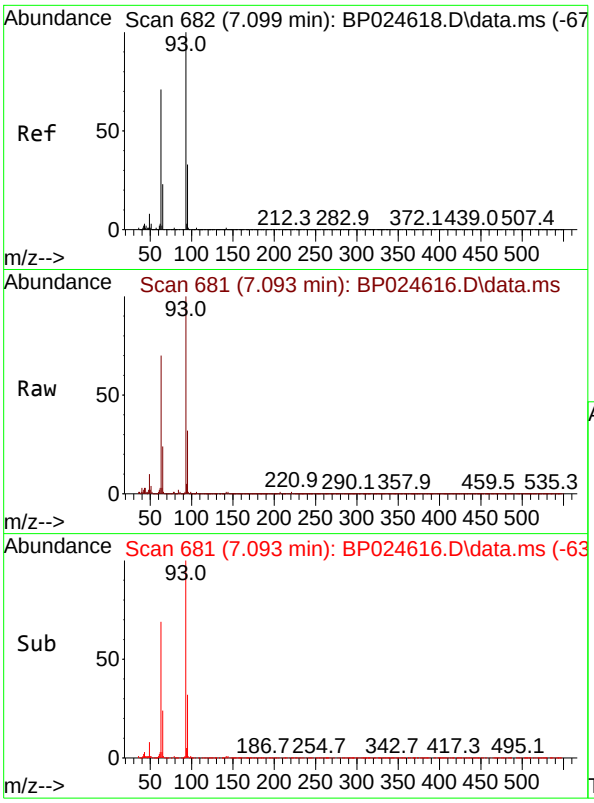


#10
Phenol
Concen: 9.094 ng
RT: 6.881 min Scan# 645
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 94 Resp: 66520

Ion	Ratio	Lower	Upper
94	100		
65	27.8	8.7	48.7
66	42.7	19.4	59.4



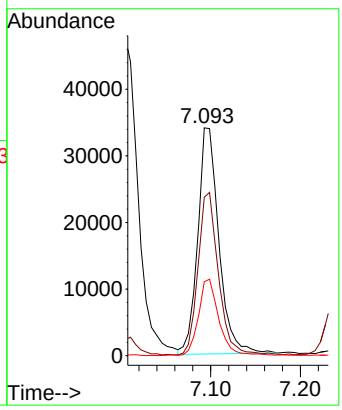


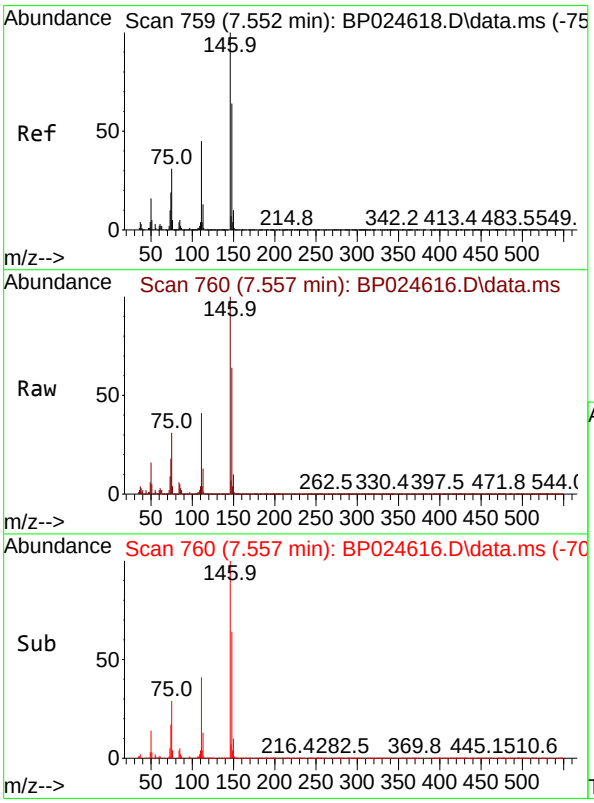
#11
bis(2-Chloroethyl)ether
Concen: 9.247 ng
RT: 7.093 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 93 Resp: 55575

Ion	Ratio	Lower	Upper
93	100		
63	69.5	50.6	90.6
95	32.4	12.9	52.9

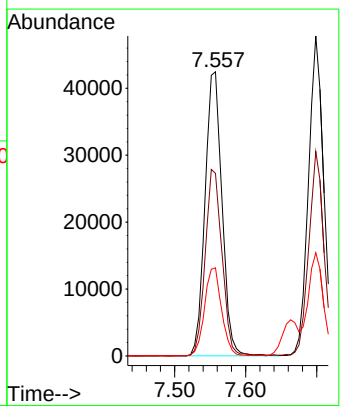


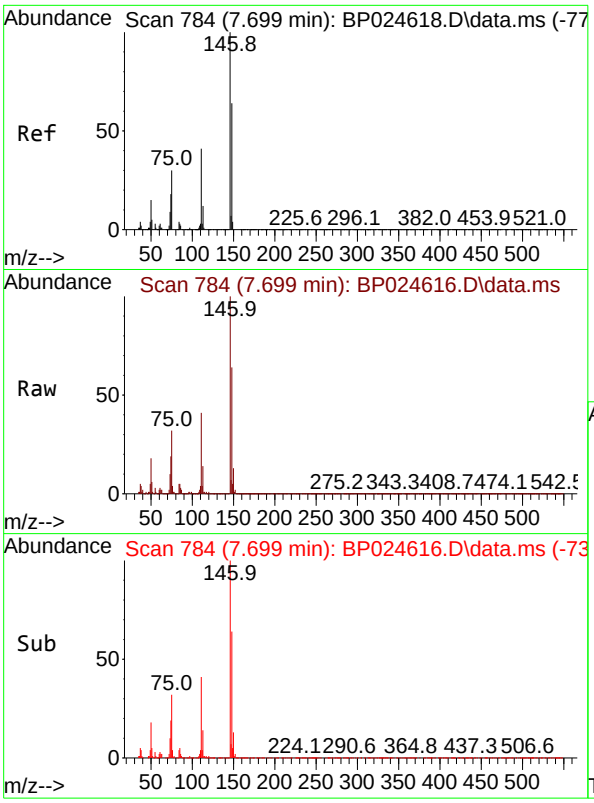


#12
1,3-Dichlorobenzene
Concen: 9.734 ng
RT: 7.557 min Scan# 760
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:146 Resp: 70590

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.4	77.2
75	31.1	25.2	37.8



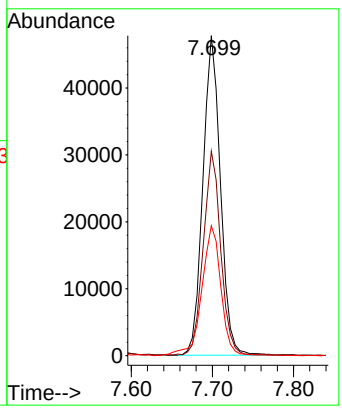


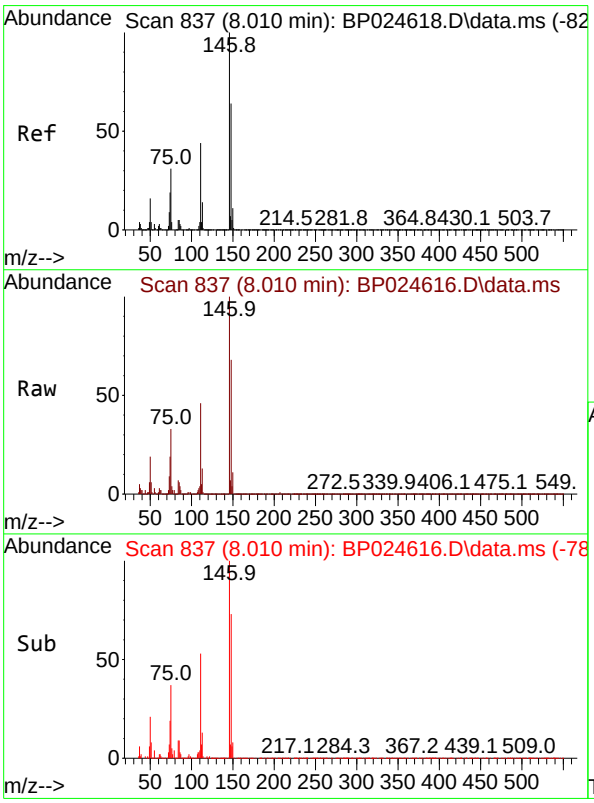
#13
1,4-Dichlorobenzene
Concen: 9.798 ng
RT: 7.699 min Scan# 7
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:146 Resp: 71467

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.0	76.6
111	40.6	33.0	49.6

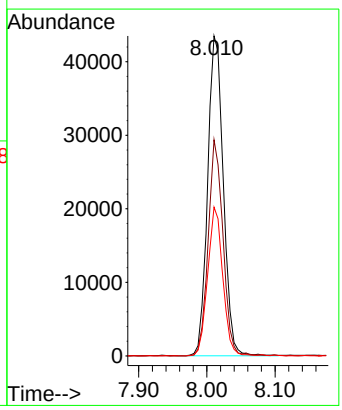


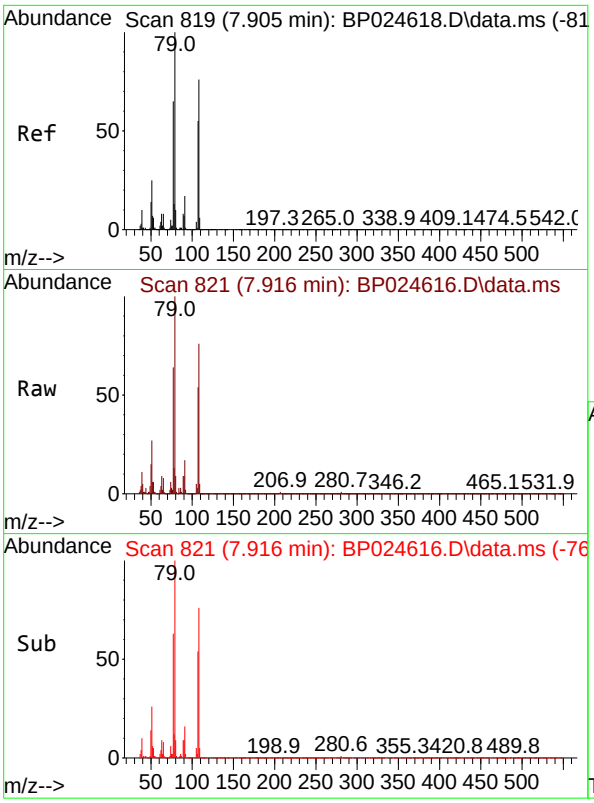


#14
1,2-Dichlorobenzene
Concen: 9.799 ng
RT: 8.010 min Scan# 837
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:146 Resp: 69643

Ion	Ratio	Lower	Upper
146	100		
148	67.5	51.0	76.4
111	46.5	35.2	52.8



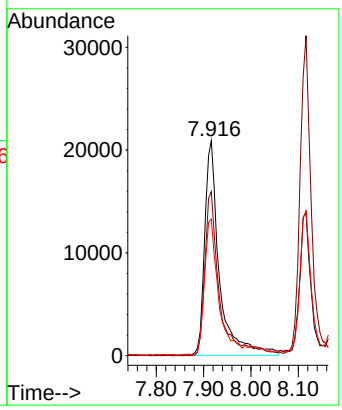


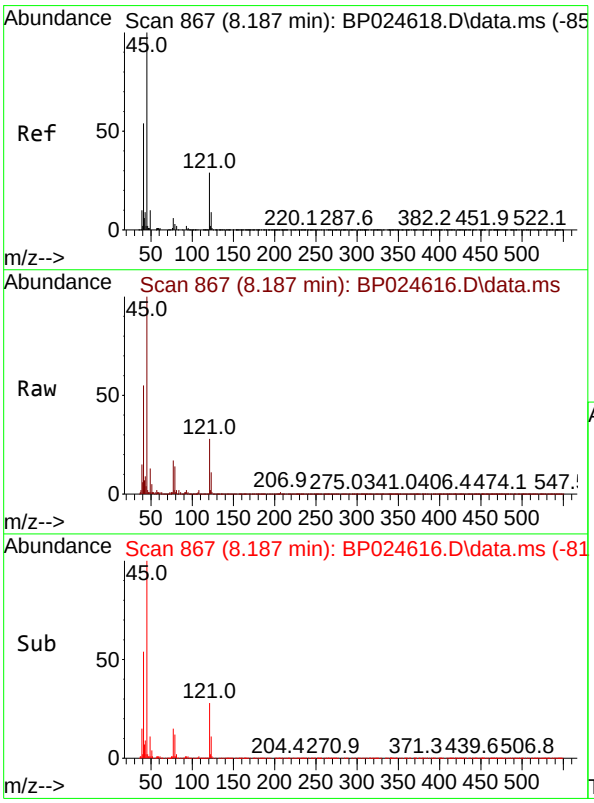
#15
Benzyl Alcohol
Concen: 8.373 ng
RT: 7.916 min Scan# 8
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 45094

Ion	Ratio	Lower	Upper
79	100		
108	76.3	60.8	91.2
77	63.5	51.9	77.9

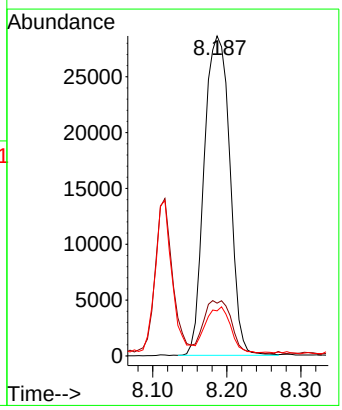


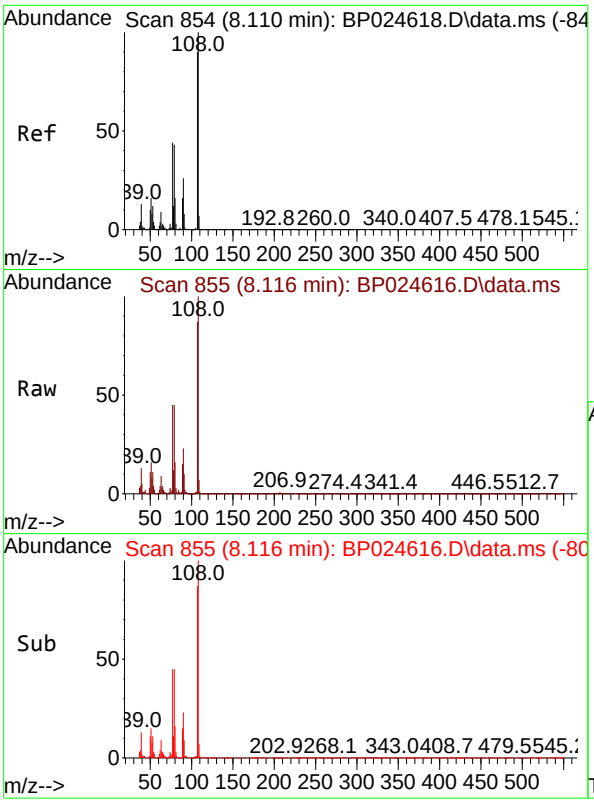


#16
2,2'-oxybis(1-Chloropropane)
Concen: 9.531 ng
RT: 8.187 min Scan# 867
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 45 Resp: 68599

Ion	Ratio	Lower	Upper
45	100		
77	16.5	0.0	37.7
79	14.1	0.0	34.0



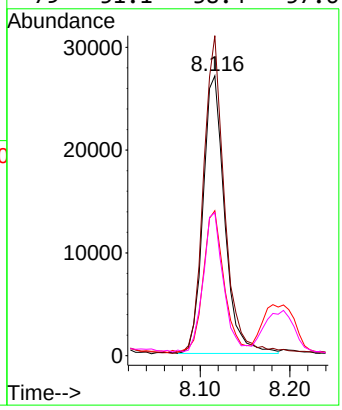


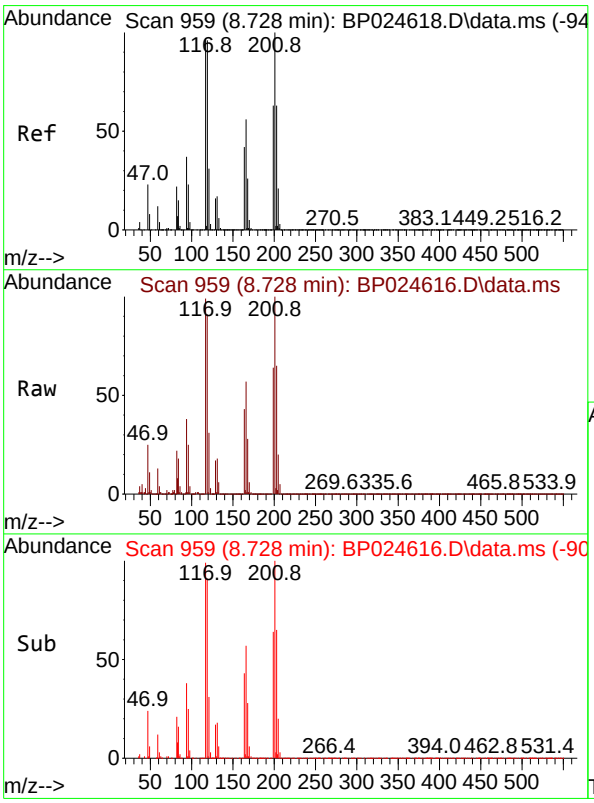
#17
2-Methylphenol
Concen: 8.591 ng
RT: 8.116 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:107 Resp: 45071

Ion	Ratio	Lower	Upper
107	100		
108	114.4	88.9	133.3
77	51.8	39.0	58.6
79	51.1	38.4	57.6

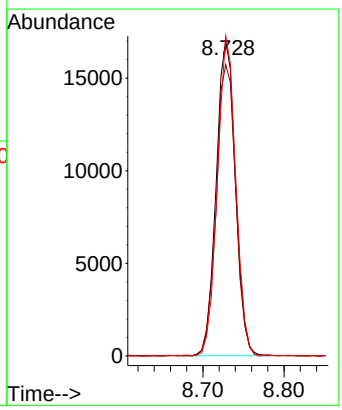


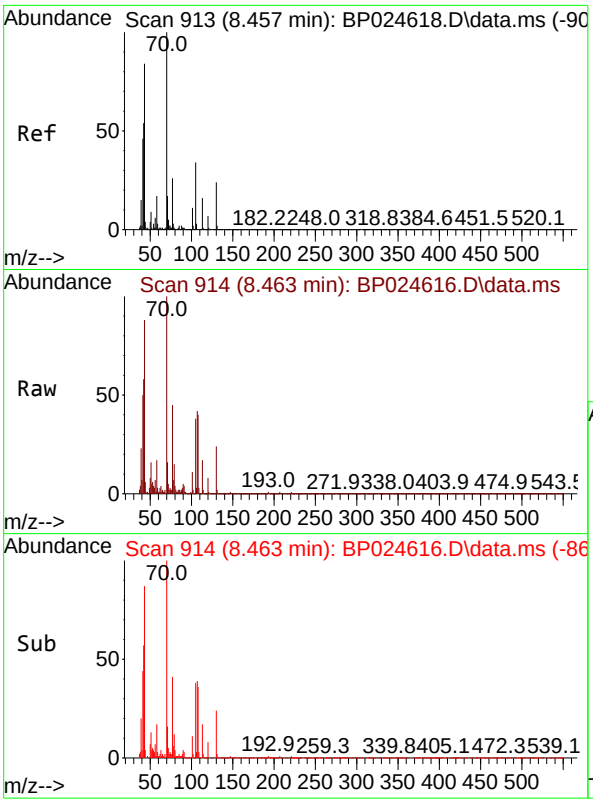


#18
Hexachloroethane
Concen: 10.045 ng
RT: 8.728 min Scan# 959
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:117 Resp: 28078

Ion	Ratio	Lower	Upper
117	100		
119	92.3	79.4	119.0
201	101.4	82.7	124.1



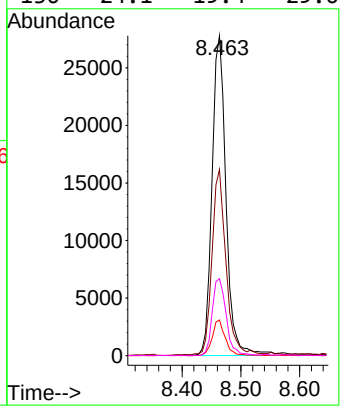


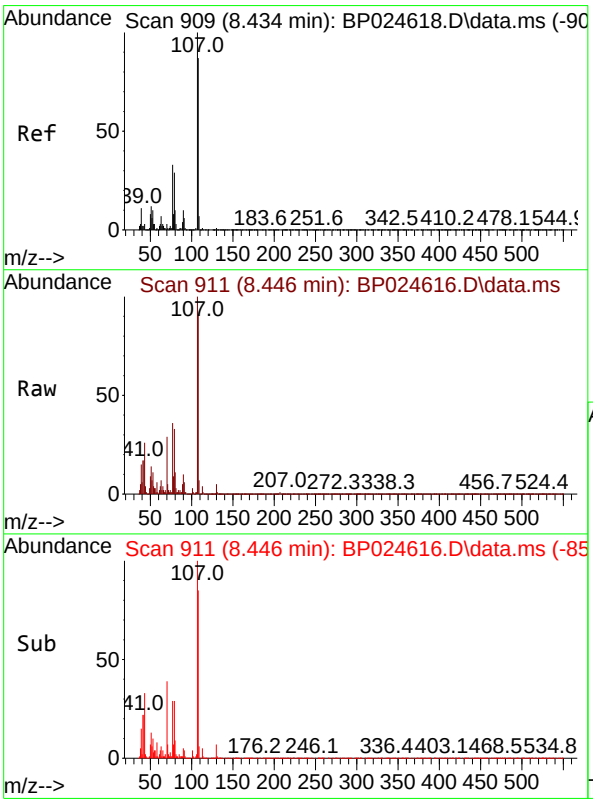
#19
n-Nitroso-di-n-propylamine
Concen: 9.369 ng
RT: 8.463 min Scan# 91
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 70 Resp: 45927

Ion	Ratio	Lower	Upper
70	100		
42	58.2	43.0	64.6
101	11.2	8.7	13.1
130	24.1	19.4	29.0

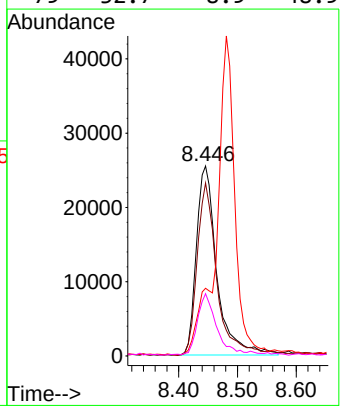


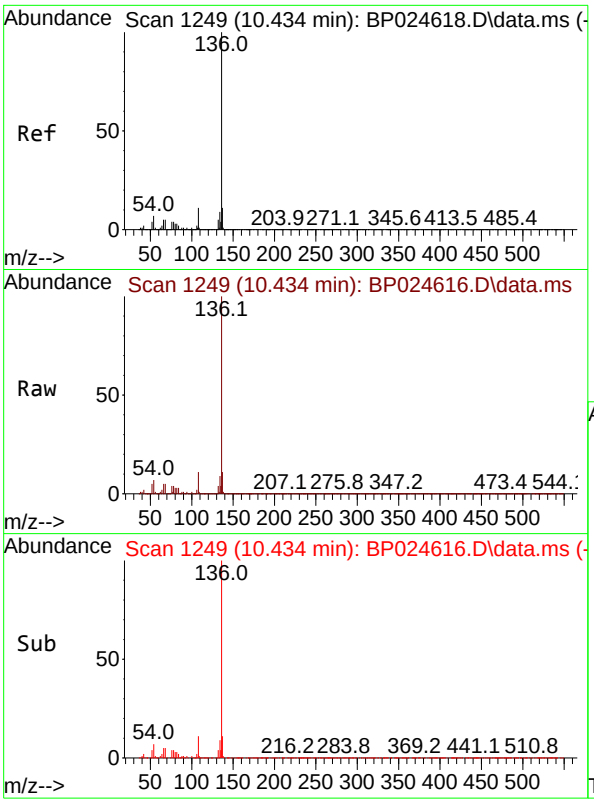


#20
3+4-Methylphenols
Concen: 8.665 ng
RT: 8.446 min Scan# 911
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:107 Resp: 61832

Ion	Ratio	Lower	Upper
107	100		
108	91.0	66.7	106.7
77	35.6	13.1	53.1
79	32.7	8.9	48.9



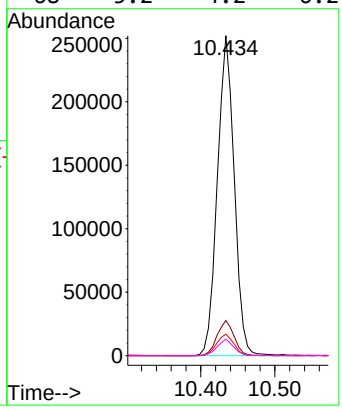


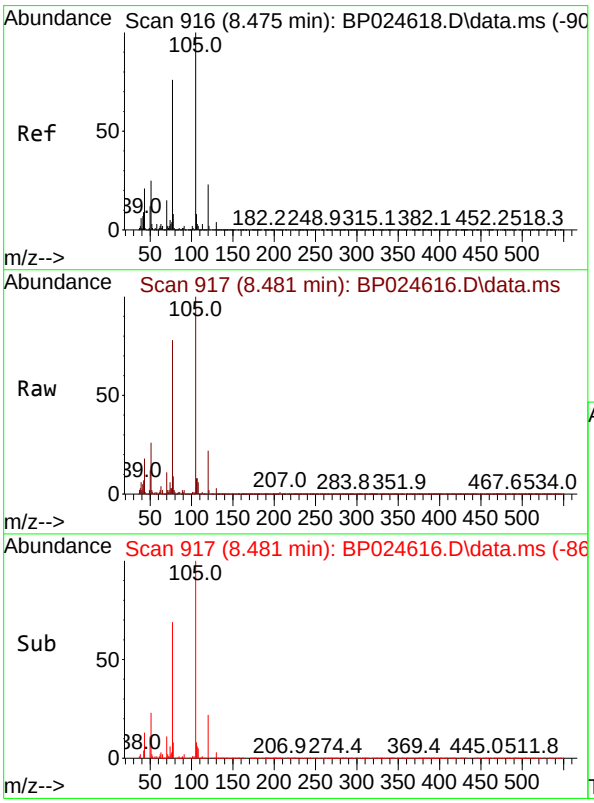
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:136 Resp: 398657

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	6.7	5.5	8.3
68	5.2	4.2	6.2

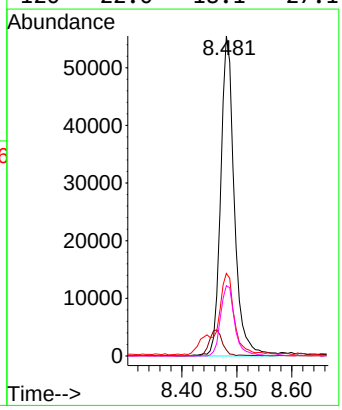


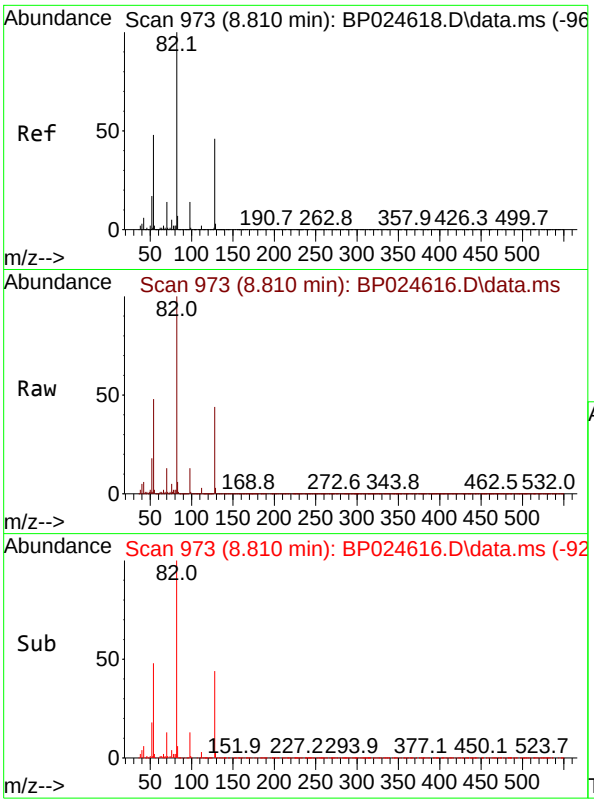


#22
Acetophenone
Concen: 9.620 ng
RT: 8.481 min Scan# 917
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:105 Resp: 95803

Ion	Ratio	Lower	Upper
105	100		
71	1.9	2.0	3.0#
51	25.8	20.4	30.6
120	22.0	18.1	27.1



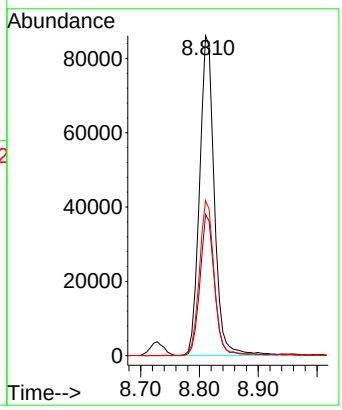


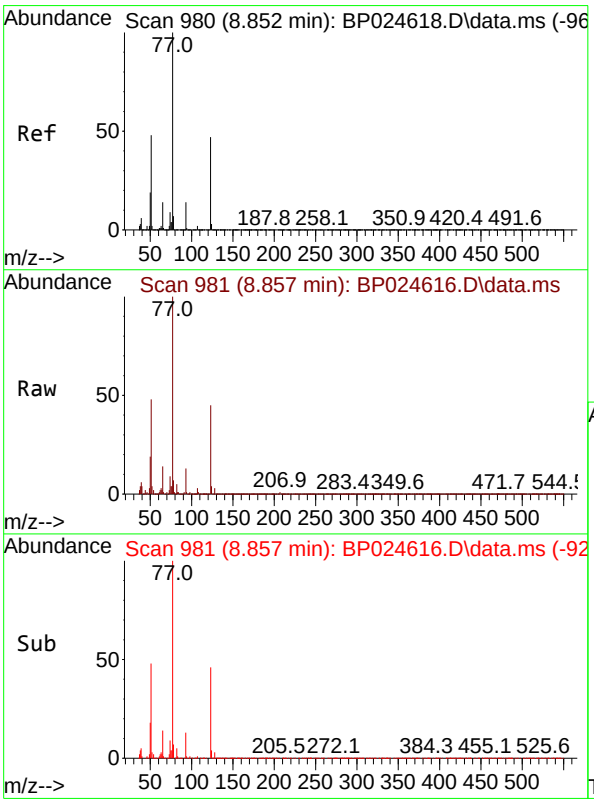
#23
Nitrobenzene-d5
Concen: 18.996 ng
RT: 8.810 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 149876

Ion	Ratio	Lower	Upper
82	100		
128	44.1	37.0	55.4
54	48.5	38.7	58.1

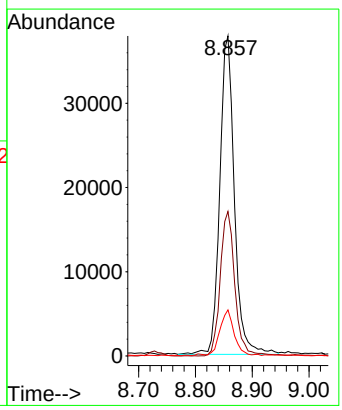


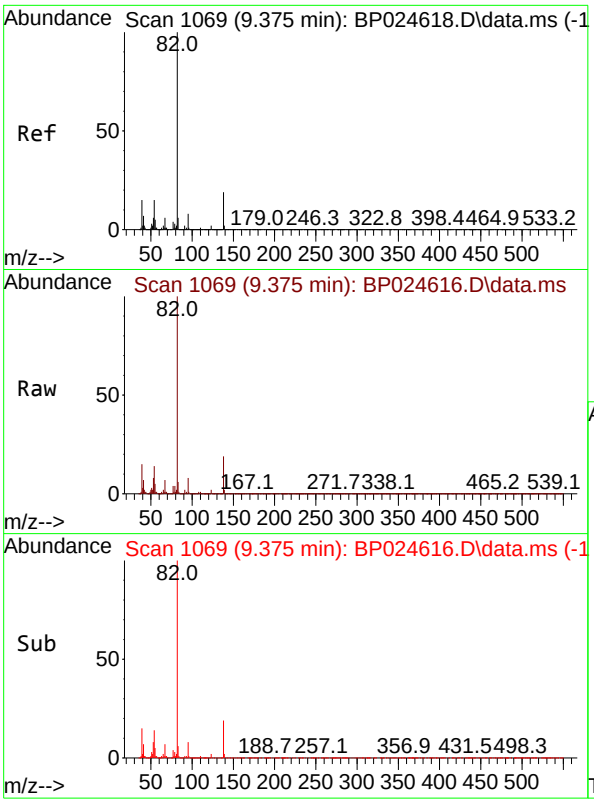


#24
Nitrobenzene
Concen: 9.755 ng
RT: 8.857 min Scan# 981
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 77 Resp: 67735

Ion	Ratio	Lower	Upper
77	100		
123	45.2	37.4	56.0
65	14.4	11.3	16.9



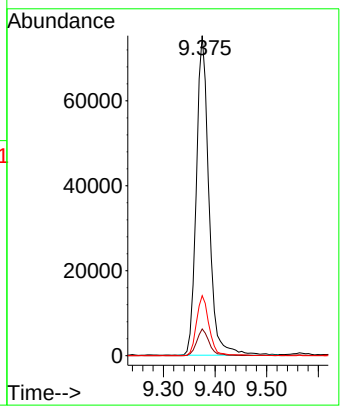


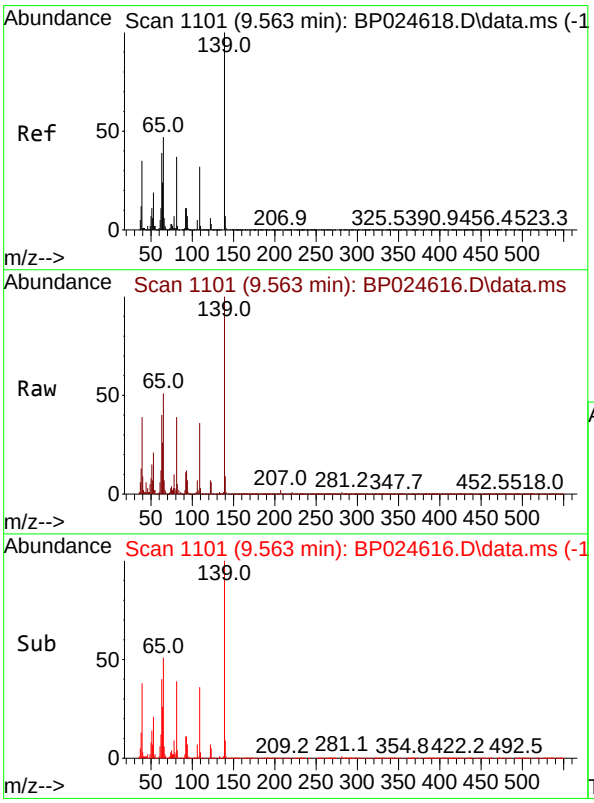
#25
Isophorone
Concen: 9.314 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 127474

Ion	Ratio	Lower	Upper
82	100		
95	8.4	6.3	9.5
138	18.7	15.3	22.9

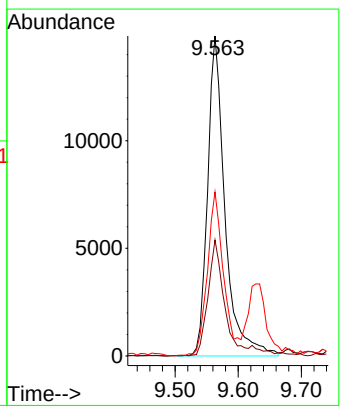


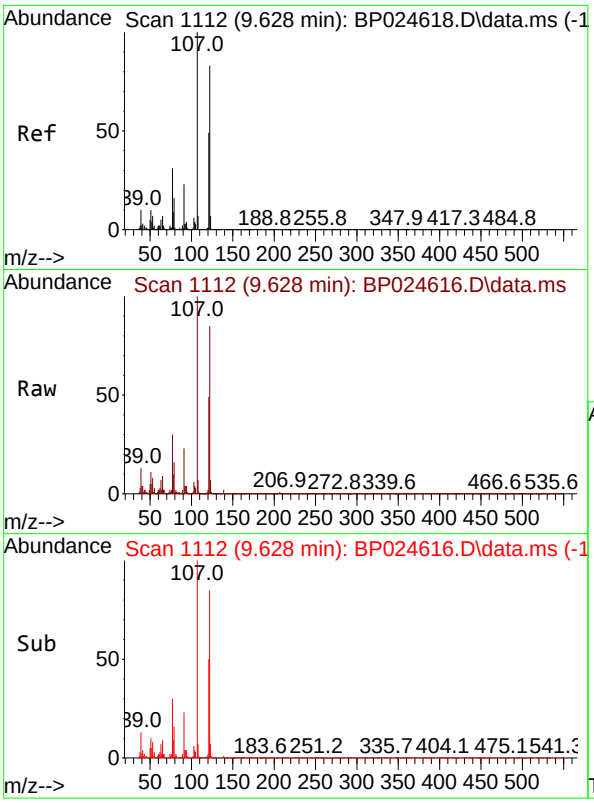


#26
2-Nitrophenol
Concen: 8.368 ng
RT: 9.563 min Scan# 1101
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:139 Resp: 28470

Ion	Ratio	Lower	Upper
139	100		
109	36.2	25.9	38.9
65	51.3	37.9	56.9



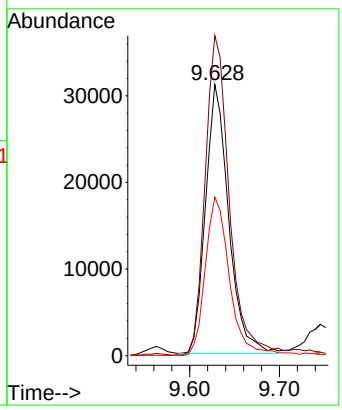


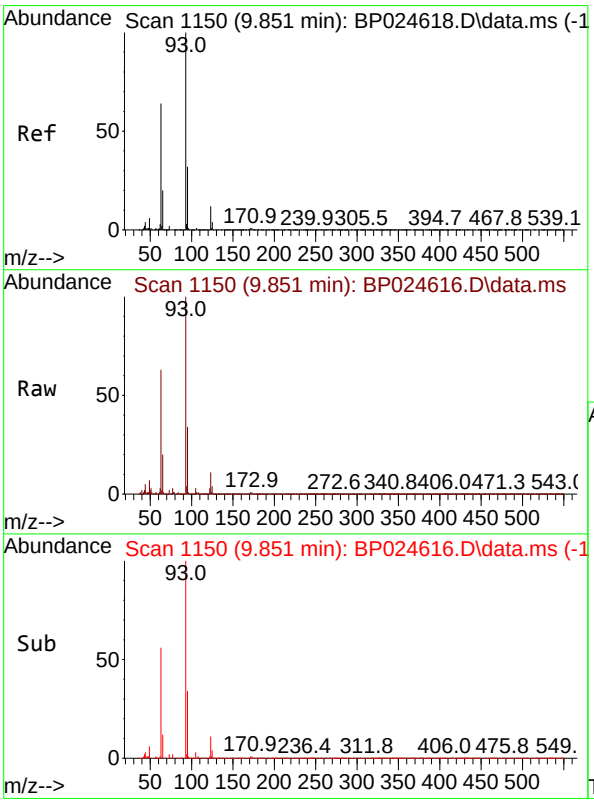
#27
2,4-Dimethylphenol
Concen: 9.279 ng
RT: 9.628 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:122 Resp: 55664

Ion	Ratio	Lower	Upper
122	100		
107	118.0	96.2	144.2
121	58.4	47.6	71.4

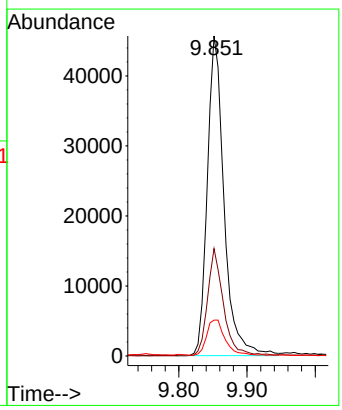


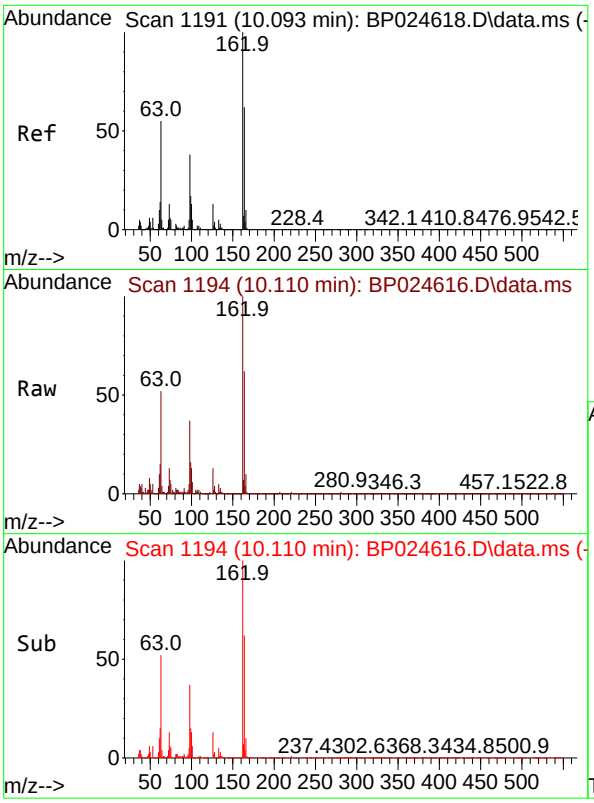


#28
bis(2-Chloroethoxy)methane
Concen: 9.542 ng
RT: 9.851 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 93 Resp: 78019

Ion	Ratio	Lower	Upper
93	100		
95	33.5	25.5	38.3
123	11.2	9.7	14.5



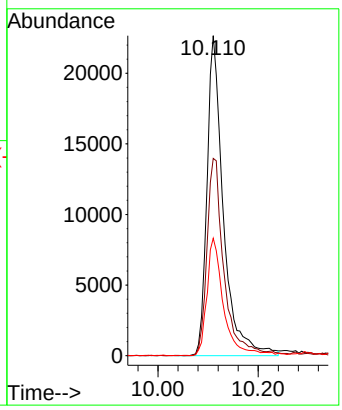


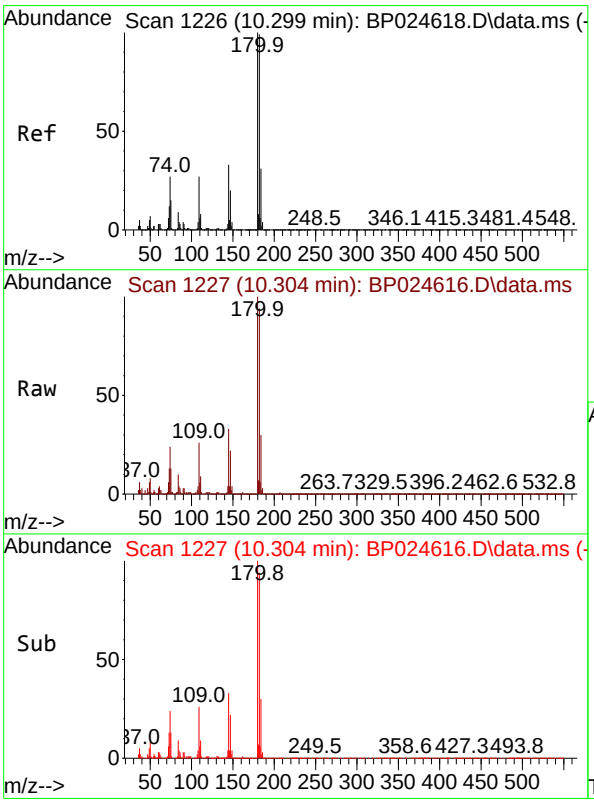
#29
2,4-Dichlorophenol
Concen: 8.840 ng
RT: 10.110 min Scan# 11
Delta R.T. 0.018 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 51386

Ion	Ratio	Lower	Upper
162	100		
164	61.7	42.3	82.3
98	36.7	18.4	58.4

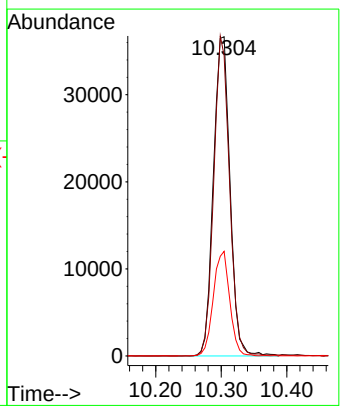


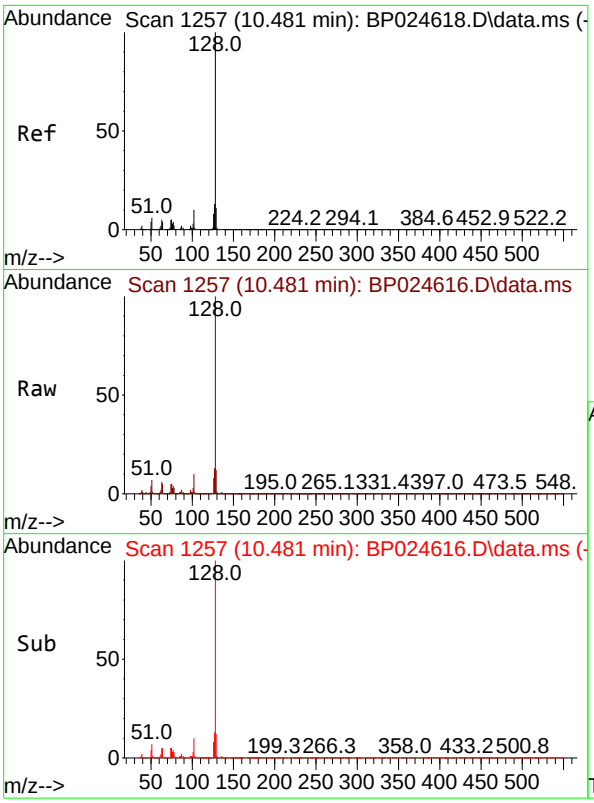


#30
1,2,4-Trichlorobenzene
Concen: 9.807 ng
RT: 10.304 min Scan# 1227
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:180 Resp: 64245

Ion	Ratio	Lower	Upper
180	100		
182	94.1	79.0	118.4
145	32.8	26.6	39.8



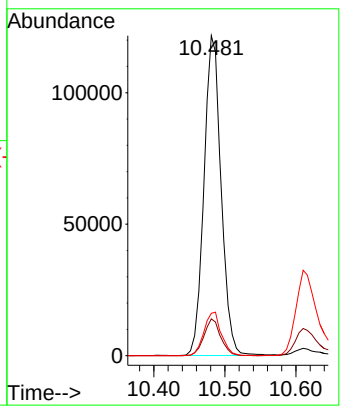


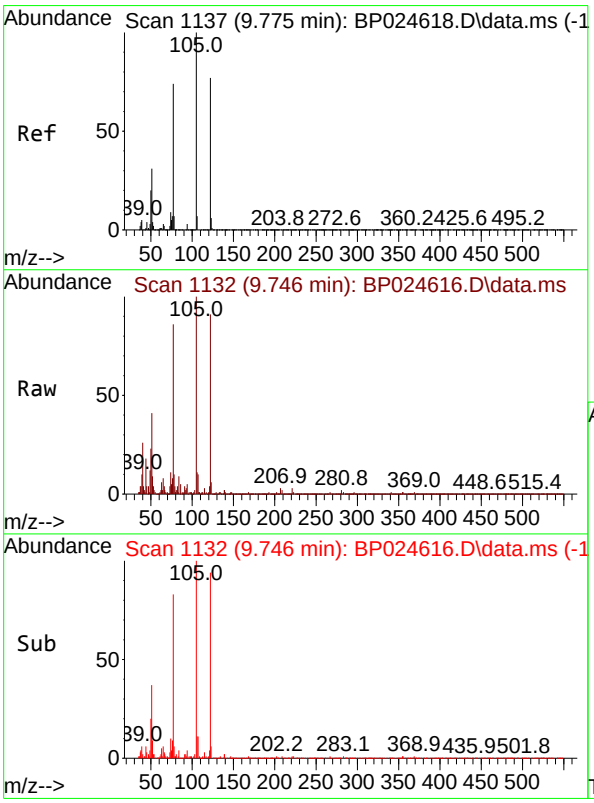
#31
Naphthalene
Concen: 9.897 ng
RT: 10.481 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:128 Resp: 204468

Ion	Ratio	Lower	Upper
128	100		
129	11.5	8.8	13.2
127	13.2	10.7	16.1

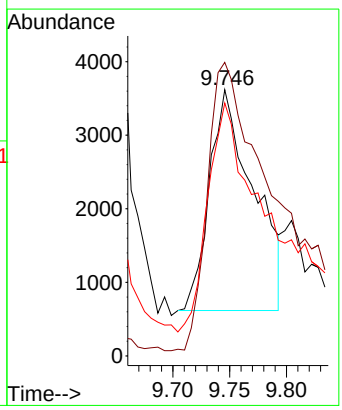


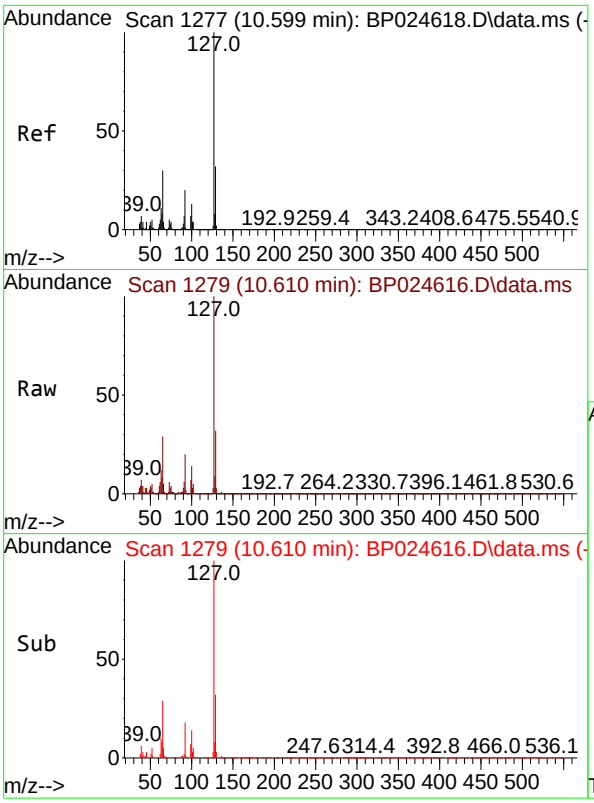


#32
Benzoic acid
Concen: 8.435 ng
RT: 9.746 min Scan# 1132
Delta R.T. -0.029 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:122 Resp: 8077

Ion	Ratio	Lower	Upper
122	100		
105	110.3	106.9	146.9
77	95.0	75.1	115.1



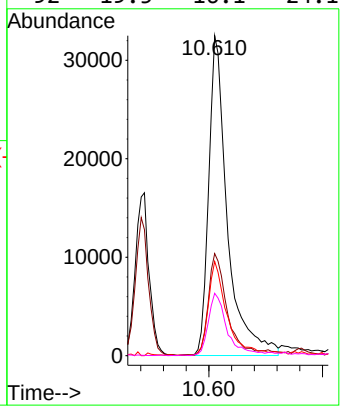


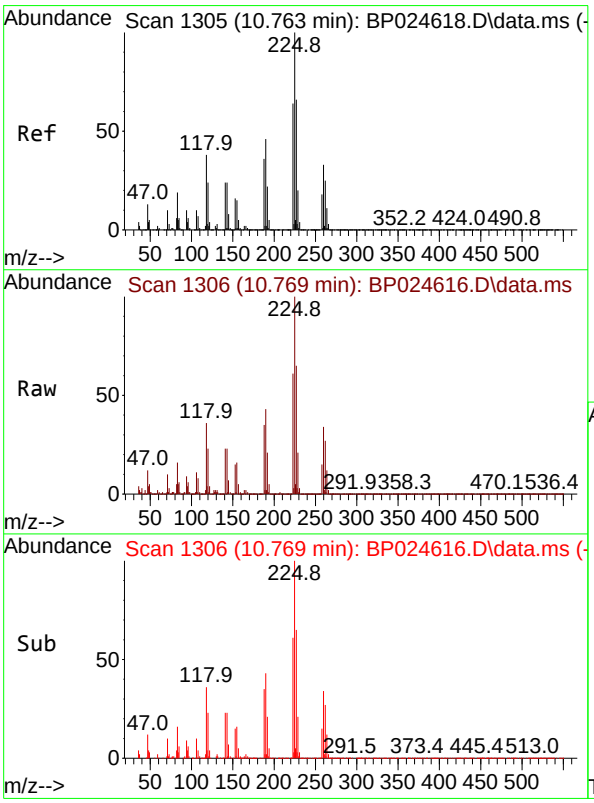
#33
4-Chloroaniline
Concen: 8.876 ng
RT: 10.610 min Scan# 1
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:127 Resp: 73990

Ion	Ratio	Lower	Upper
127	100		
129	31.9	25.8	38.6
65	29.5	23.9	35.9
92	19.5	16.1	24.1

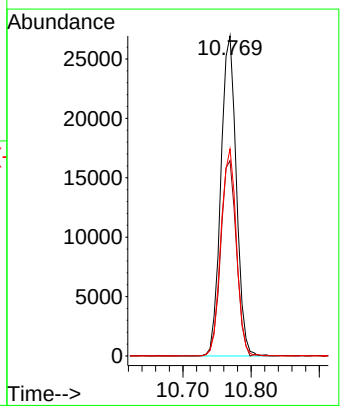


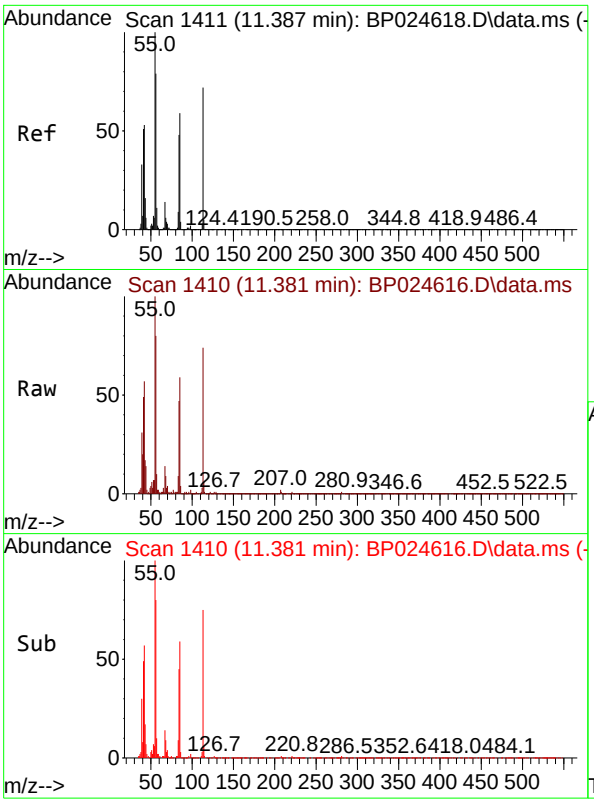


#34
Hexachlorobutadiene
Concen: 10.031 ng
RT: 10.769 min Scan# 1306
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:225 Resp: 42567

Ion	Ratio	Lower	Upper
225	100		
223	61.0	51.0	76.6
227	64.7	53.1	79.7



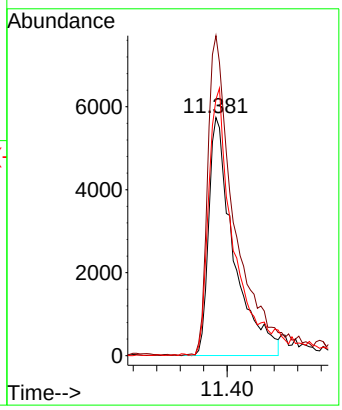


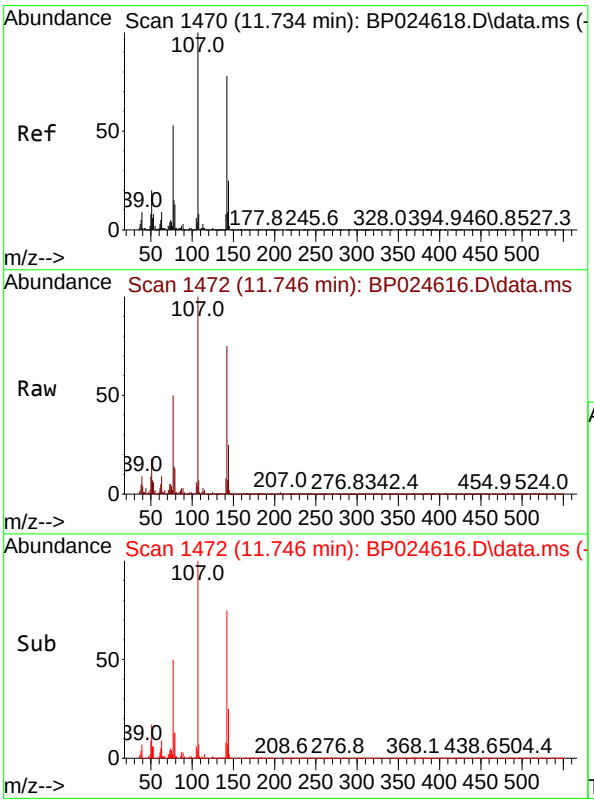
#35
Caprolactam
Concen: 8.019 ng
RT: 11.381 min Scan# 14
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:113 Resp: 16855

Ion	Ratio	Lower	Upper
113	100		
55	134.4	119.0	159.0
56	107.7	90.3	130.3

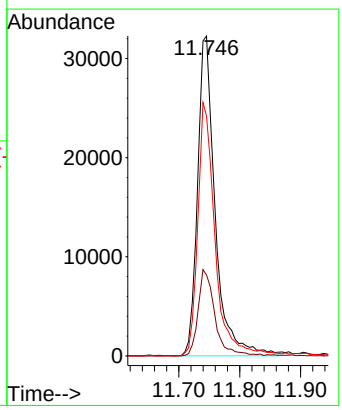


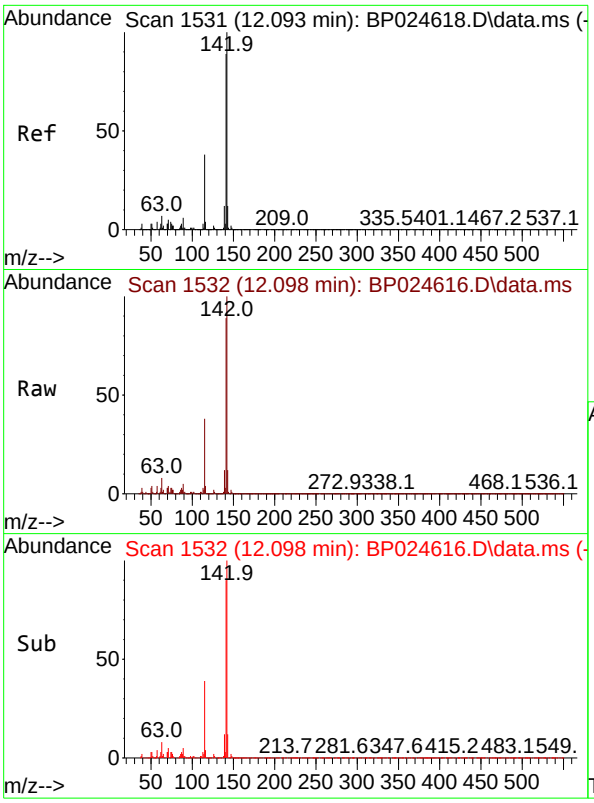


#36
4-Chloro-3-methylphenol
Concen: 9.149 ng
RT: 11.746 min Scan# 1472
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:107 Resp: 64857

Ion	Ratio	Lower	Upper
107	100		
144	25.3	20.1	30.1
142	75.0	62.1	93.1



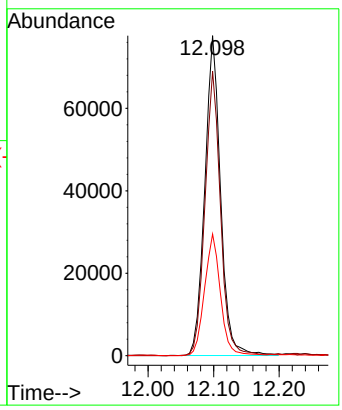


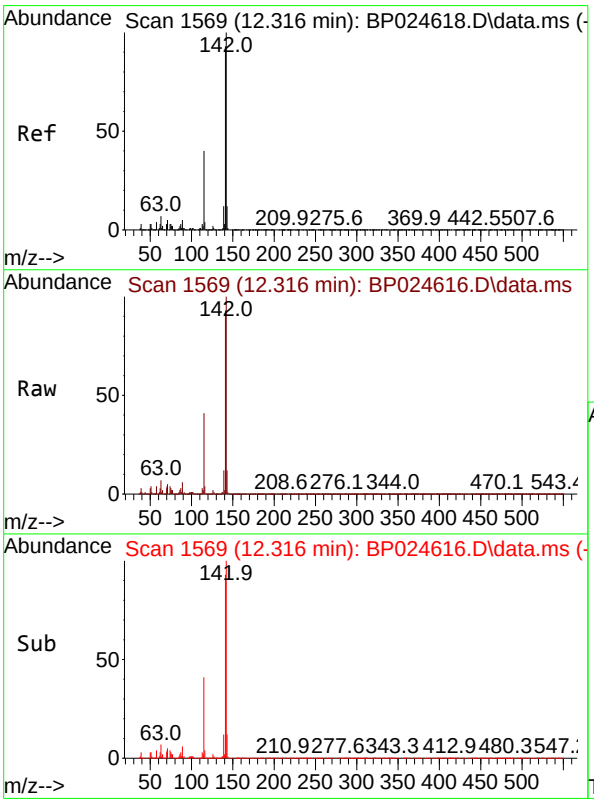
#37
2-Methylnaphthalene
Concen: 9.749 ng
RT: 12.098 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:142 Resp: 130412

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.2	106.8
115	38.0	30.6	46.0

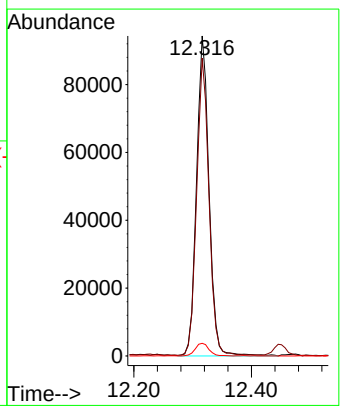


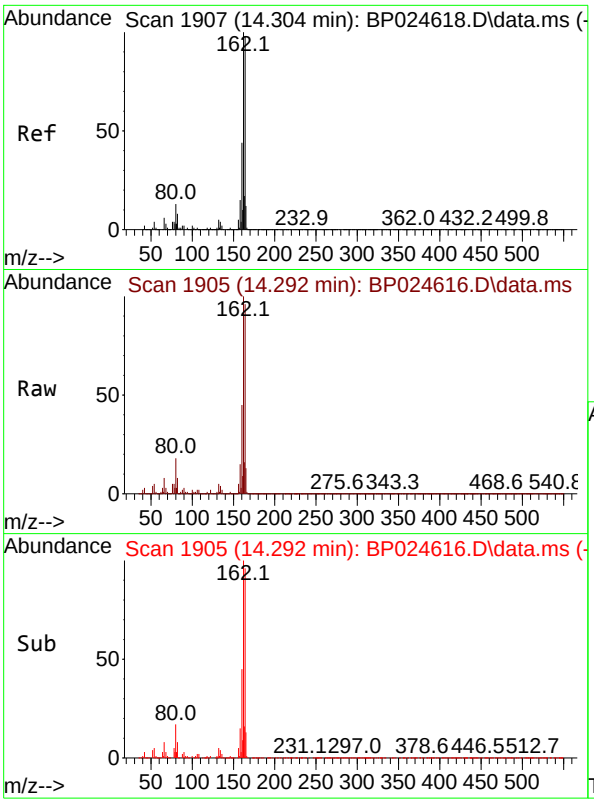


#38
1-Methylnaphthalene
Concen: 9.752 ng
RT: 12.316 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:142 Resp: 139573

Ion	Ratio	Lower	Upper
142	100		
141	93.1	74.7	112.1
116	4.0	3.4	5.2



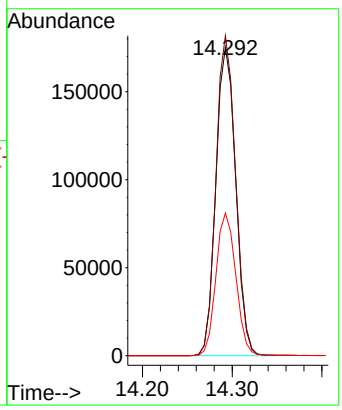


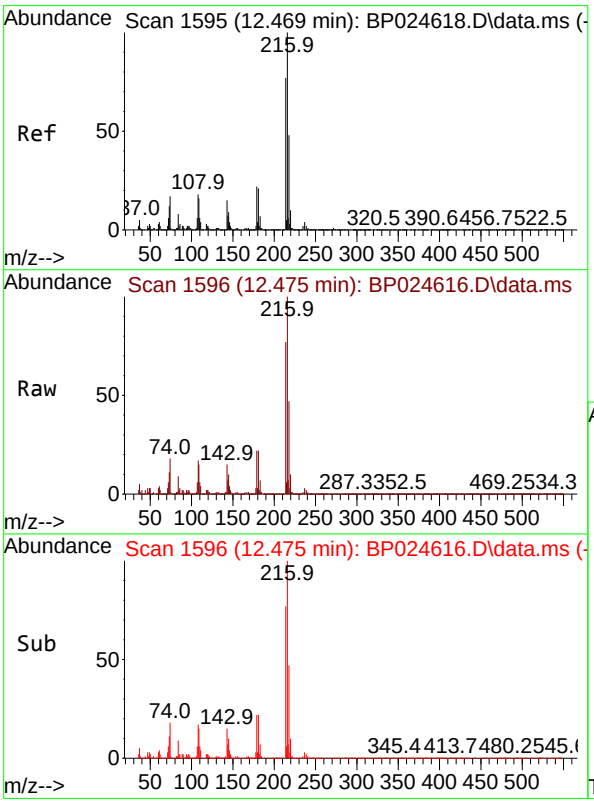
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.292 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:164 Resp: 268335

Ion	Ratio	Lower	Upper
164	100		
162	103.8	81.8	122.6
160	46.2	36.3	54.5

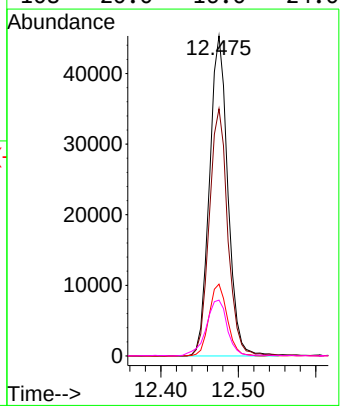


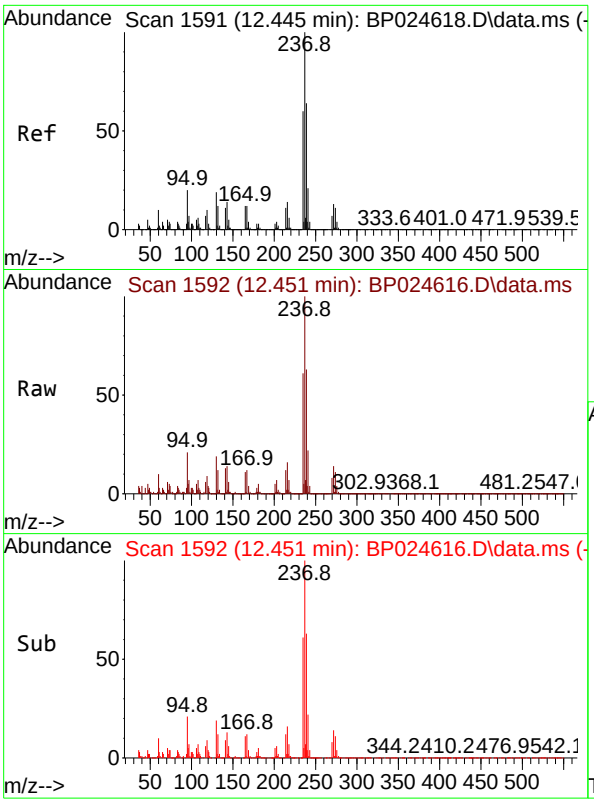


#40
1,2,4,5-Tetrachlorobenzene
Concen: 9.603 ng
RT: 12.475 min Scan# 1596
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:216 Resp: 74824

Ion	Ratio	Lower	Upper
216	100		
214	77.9	62.3	93.5
179	22.2	17.7	26.5
108	20.0	16.0	24.0



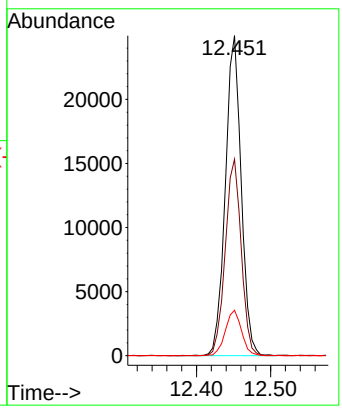


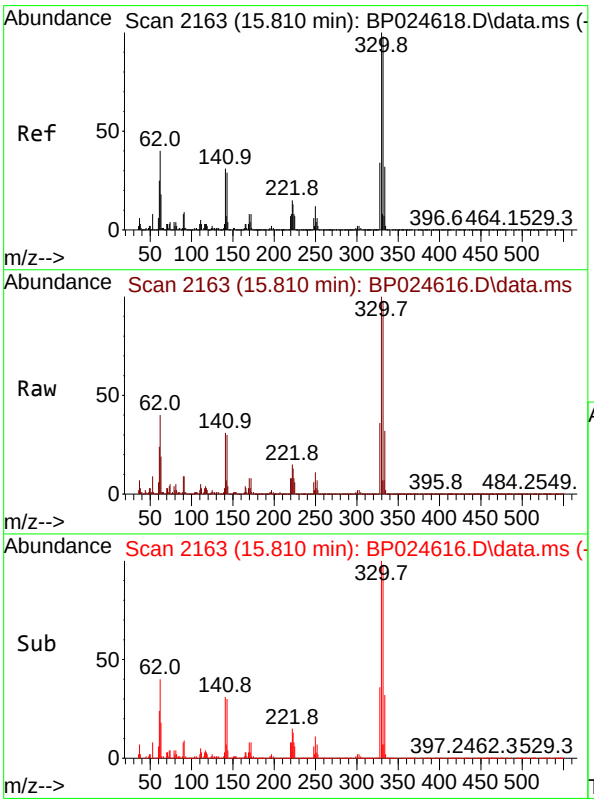
#41
Hexachlorocyclopentadiene
Concen: 7.846 ng
RT: 12.451 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:237 Resp: 37072

Ion	Ratio	Lower	Upper
237	100		
235	61.4	39.9	79.9
272	14.2	0.0	33.2

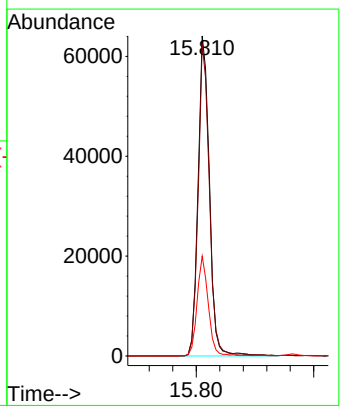


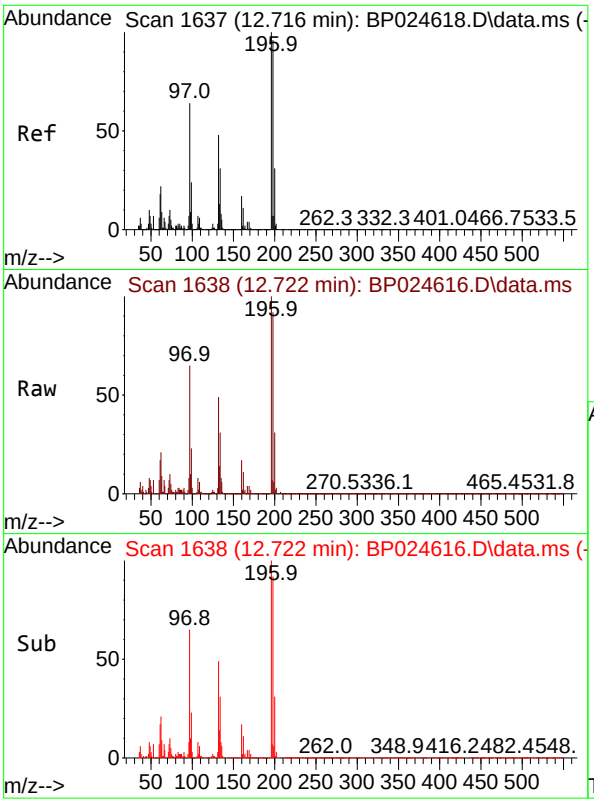


#42
2,4,6-Tribromophenol
Concen: 18.927 ng
RT: 15.810 min Scan# 2163
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:330 Resp: 86099

Ion	Ratio	Lower	Upper
330	100		
332	95.1	78.2	117.4
141	30.5	24.3	36.5



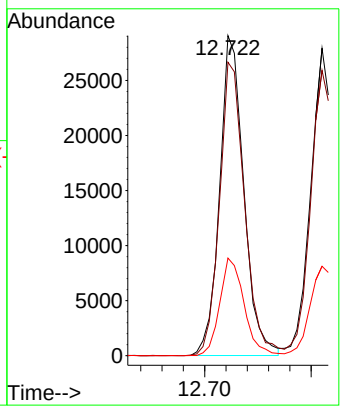


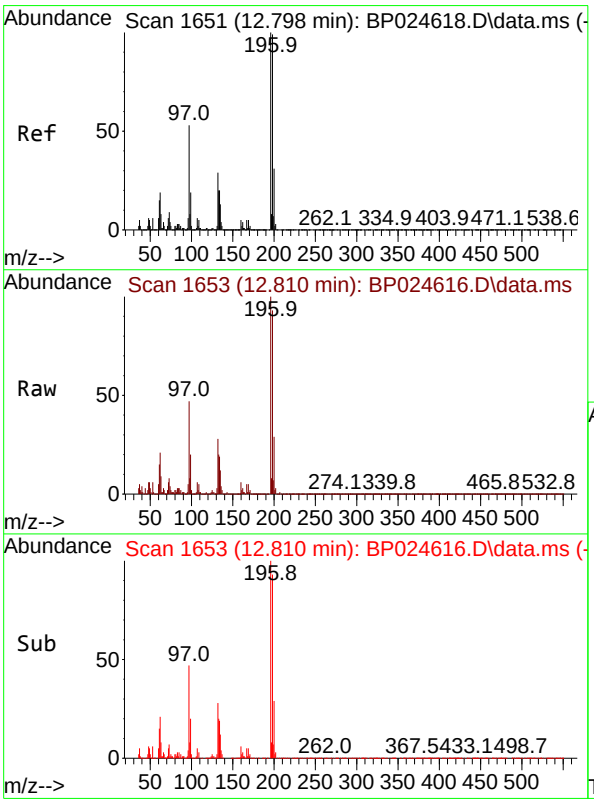
#43
2,4,6-Trichlorophenol
Concen: 9.074 ng
RT: 12.722 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:196 Resp: 45798

Ion	Ratio	Lower	Upper
196	100		
198	91.7	76.9	115.3
200	30.5	25.2	37.8

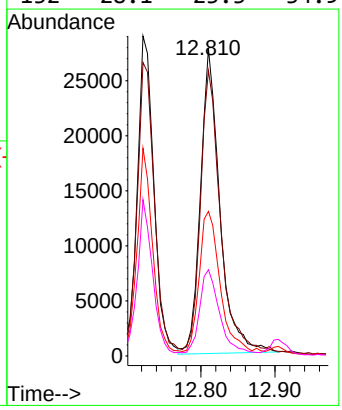


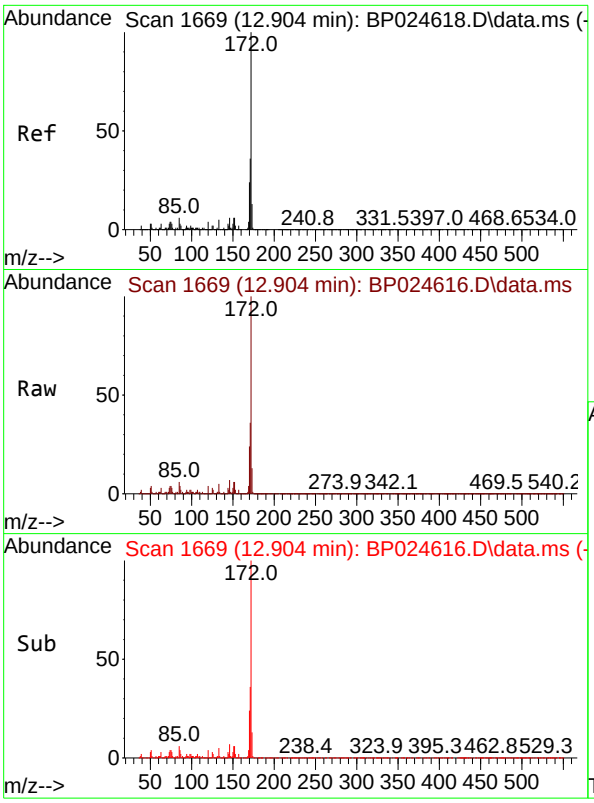


#44
2,4,5-Trichlorophenol
Concen: 8.962 ng
RT: 12.810 min Scan# 1653
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:196 Resp: 50348

Ion	Ratio	Lower	Upper
196	100		
198	92.8	79.2	118.8
97	47.0	42.3	63.5
132	28.1	23.3	34.9



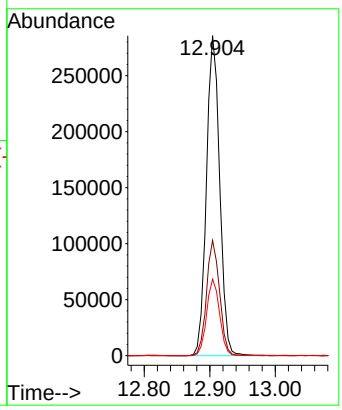


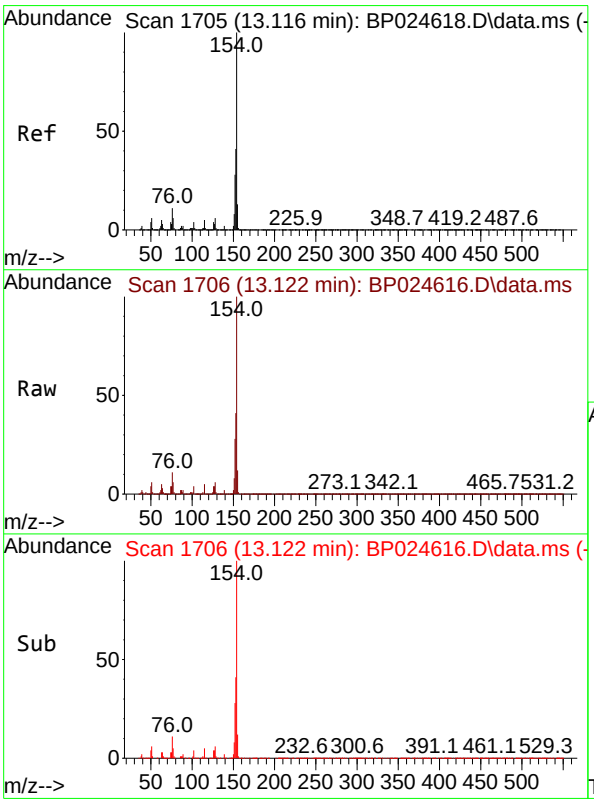
#45
2-Fluorobiphenyl
Concen: 19.627 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:172 Resp: 401986

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.9	18.8	28.2

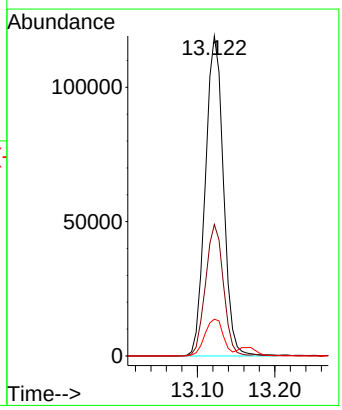


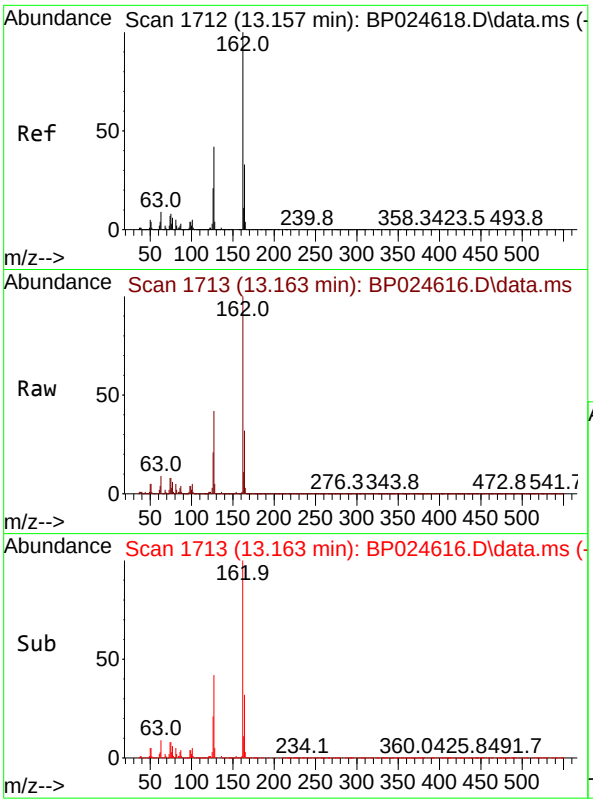


#46
1,1'-Biphenyl
Concen: 9.703 ng
RT: 13.122 min Scan# 1706
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:154 Resp: 192445

Ion	Ratio	Lower	Upper
154	100		
153	41.1	21.0	61.0
76	11.5	0.0	31.5



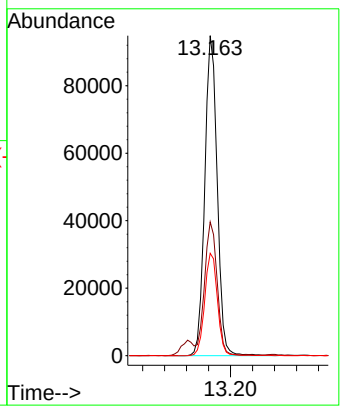


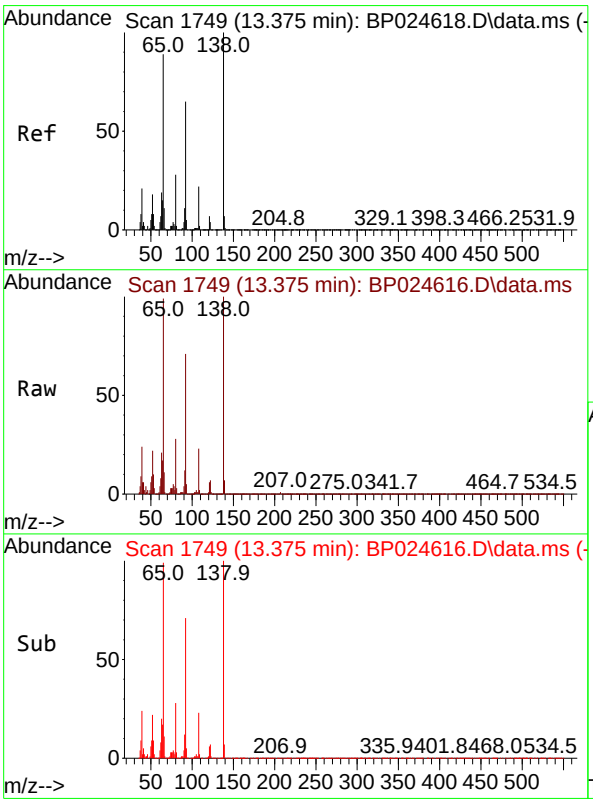
#47
2-Chloronaphthalene
Concen: 9.816 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 148443

Ion	Ratio	Lower	Upper
162	100		
127	41.8	33.8	50.6
164	32.0	26.0	39.0

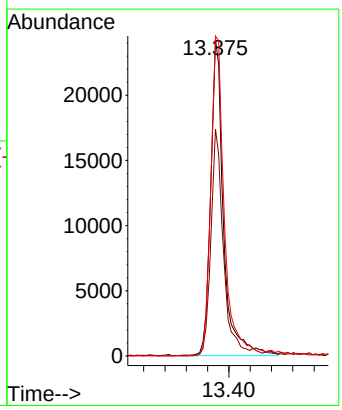


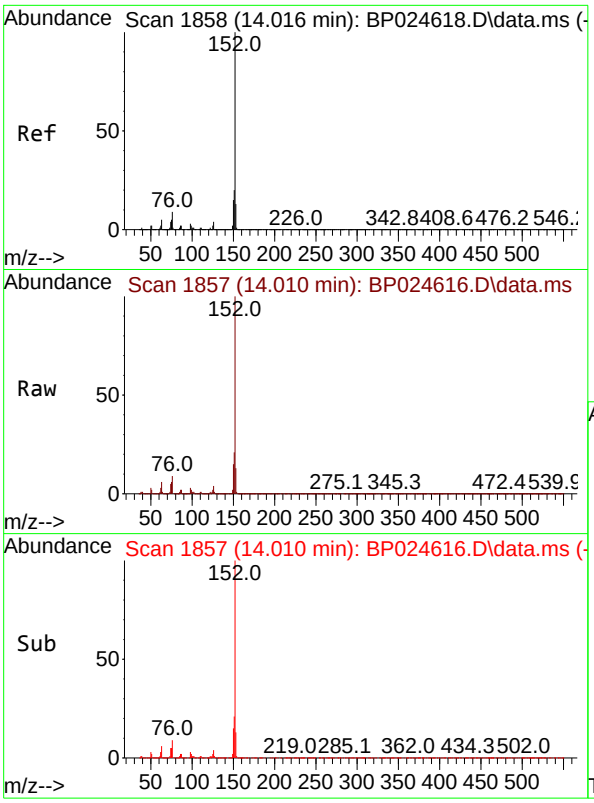


#48
2-Nitroaniline
Concen: 9.110 ng
RT: 13.375 min Scan# 1749
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion: 65 Resp: 40786

Ion	Ratio	Lower	Upper
65	100		
92	71.8	58.7	88.1
138	101.2	90.2	135.2



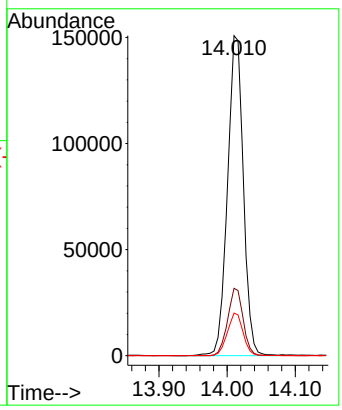


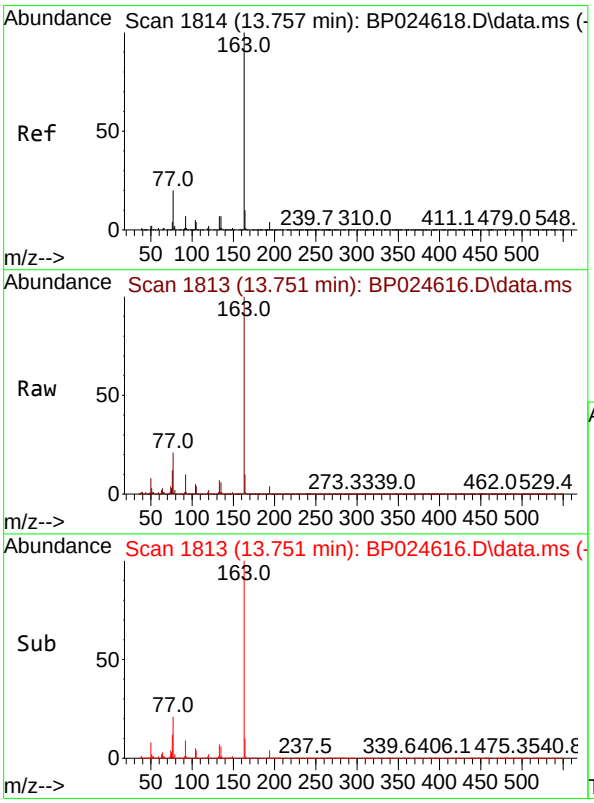
#49
Acenaphthylene
Concen: 9.638 ng
RT: 14.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 243913

Ion	Ratio	Lower	Upper
152	100		
151	21.1	16.2	24.4
153	13.3	10.2	15.4

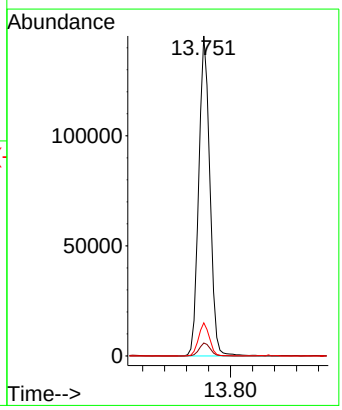


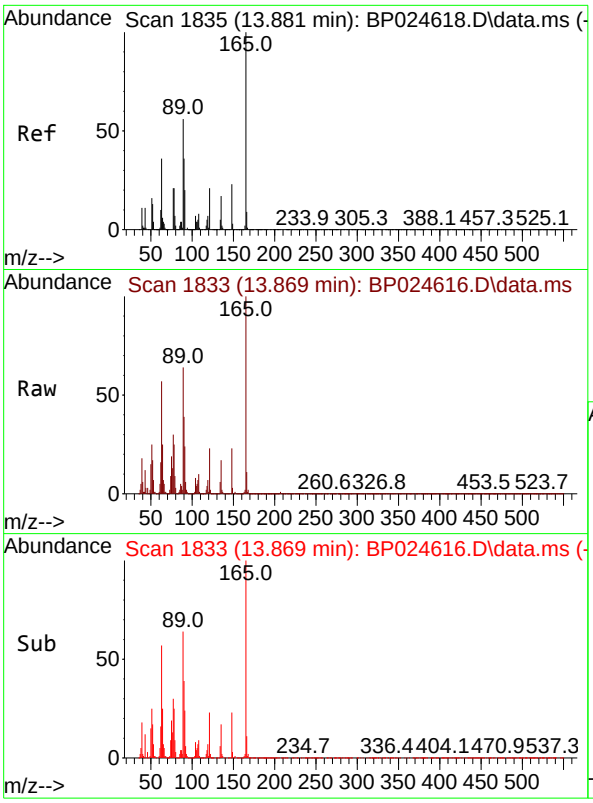


#50
Dimethylphthalate
Concen: 10.015 ng
RT: 13.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:163 Resp: 204825

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.3	8.1	12.1



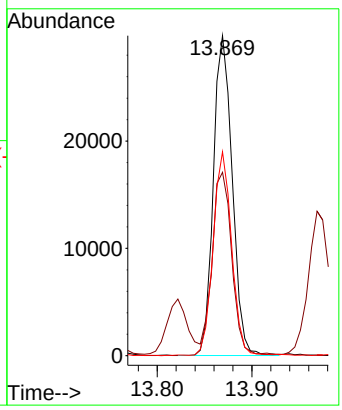


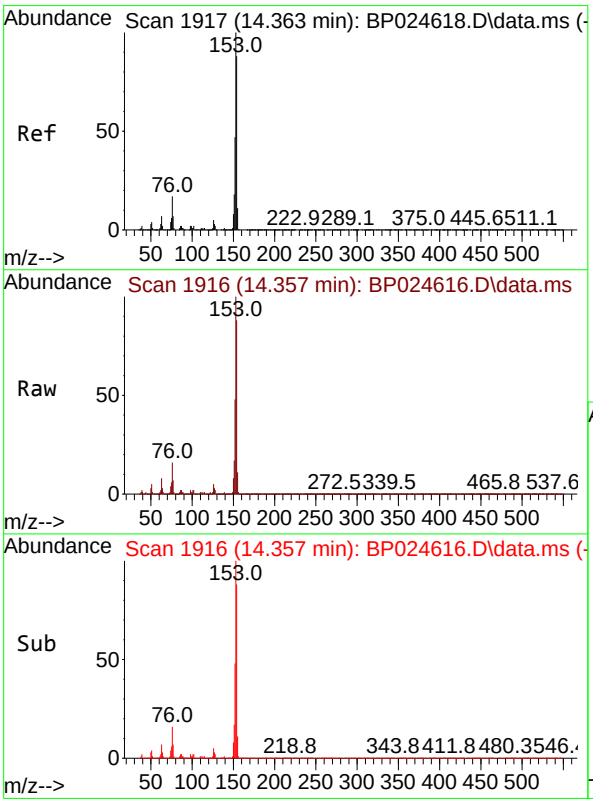
#51
2,6-Dinitrotoluene
Concen: 9.551 ng
RT: 13.869 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 41257

Ion	Ratio	Lower	Upper
165	100		
63	57.3	42.4	63.6
89	63.7	44.8	67.2

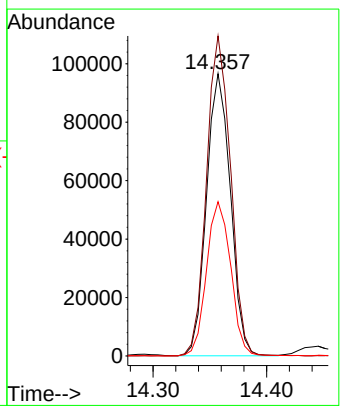


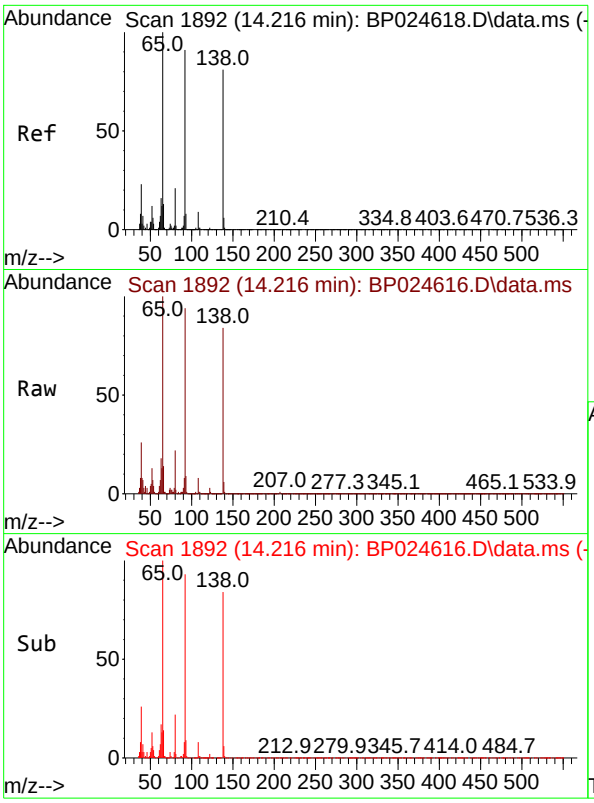


#52
Acenaphthene
Concen: 9.717 ng
RT: 14.357 min Scan# 1916
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:154 Resp: 141360

Ion	Ratio	Lower	Upper
154	100		
153	113.4	91.0	136.4
152	54.6	42.9	64.3



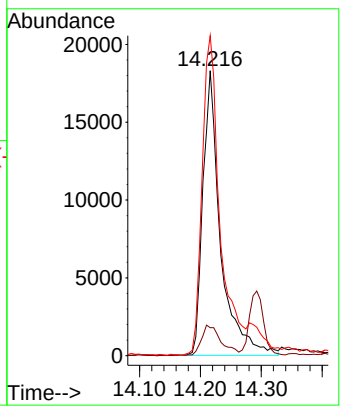


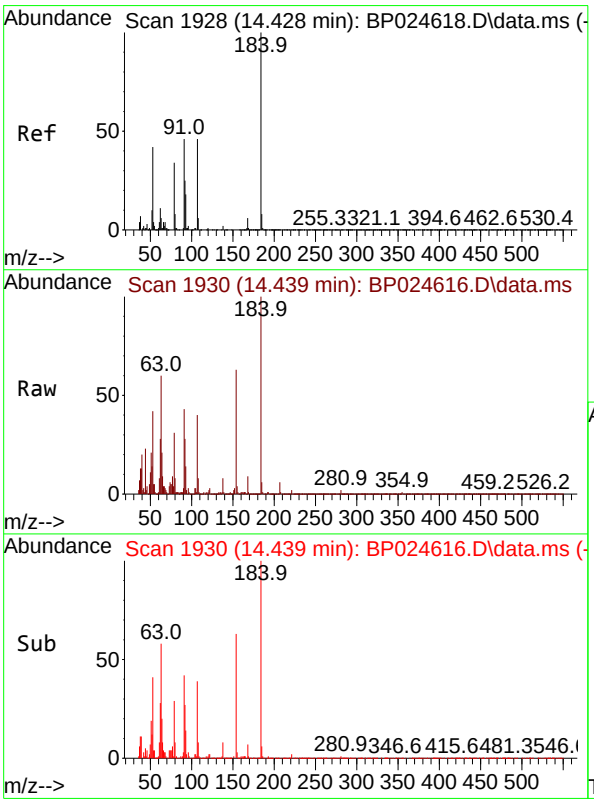
#53
3-Nitroaniline
Concen: 8.368 ng
RT: 14.216 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:138 Resp: 36906

Ion	Ratio	Lower	Upper
138	100		
108	9.9	9.0	13.4
92	112.3	90.1	135.1

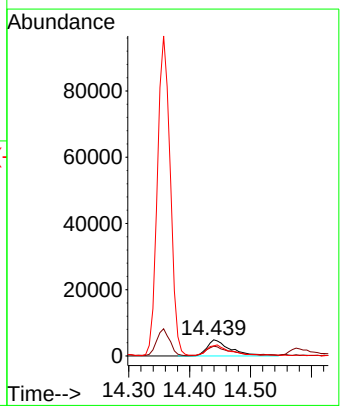


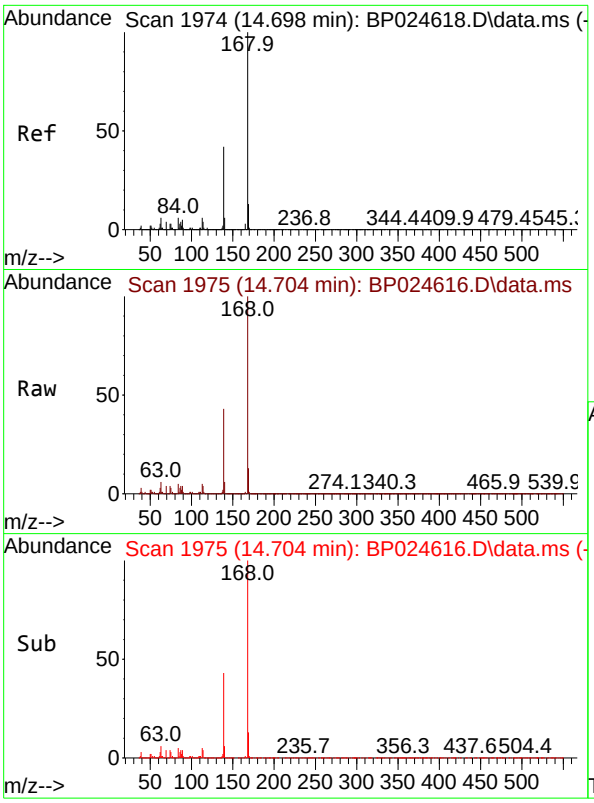


#54
2,4-Dinitrophenol
Concen: 10.835 ng
RT: 14.439 min Scan# 1930
Delta R.T. 0.011 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:184 Resp: 13128

Ion	Ratio	Lower	Upper
184	100		
63	60.3	51.3	76.9
154	62.9	53.5	80.3



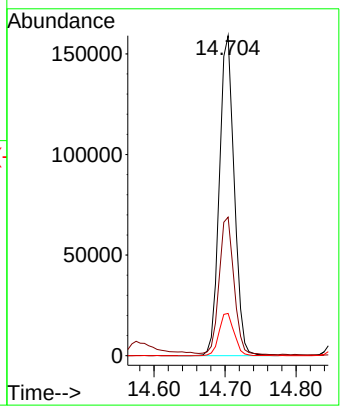


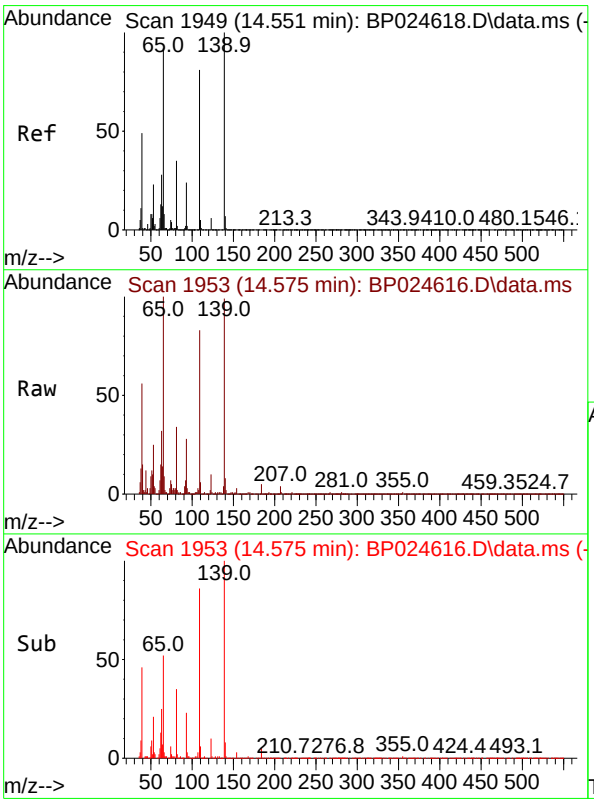
#55
Dibenzofuran
Concen: 9.924 ng
RT: 14.704 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:168 Resp: 230286

Ion	Ratio	Lower	Upper
168	100		
139	43.3	34.2	51.4
169	13.2	10.8	16.2

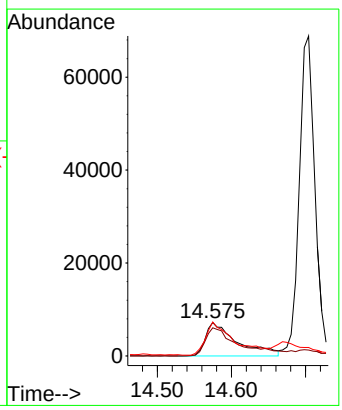


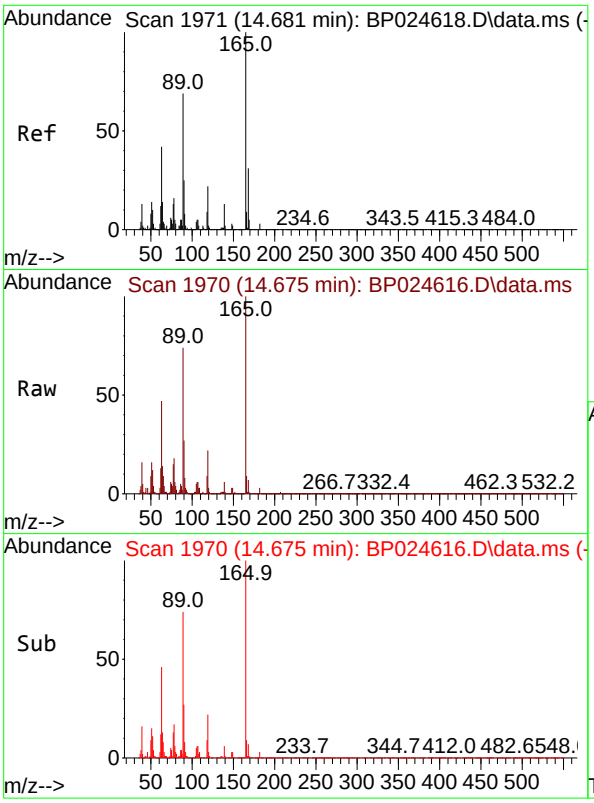


#56
4-Nitrophenol
Concen: 9.529 ng
RT: 14.575 min Scan# 1953
Delta R.T. 0.024 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:139 Resp: 21349

Ion	Ratio	Lower	Upper
139	100		
109	84.4	61.4	101.4
65	101.4	72.2	112.2



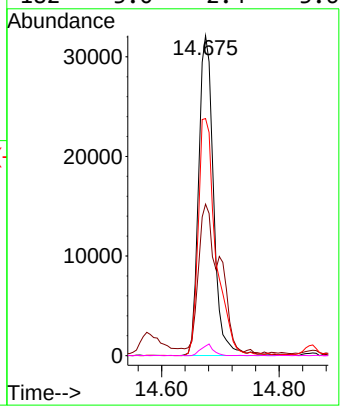


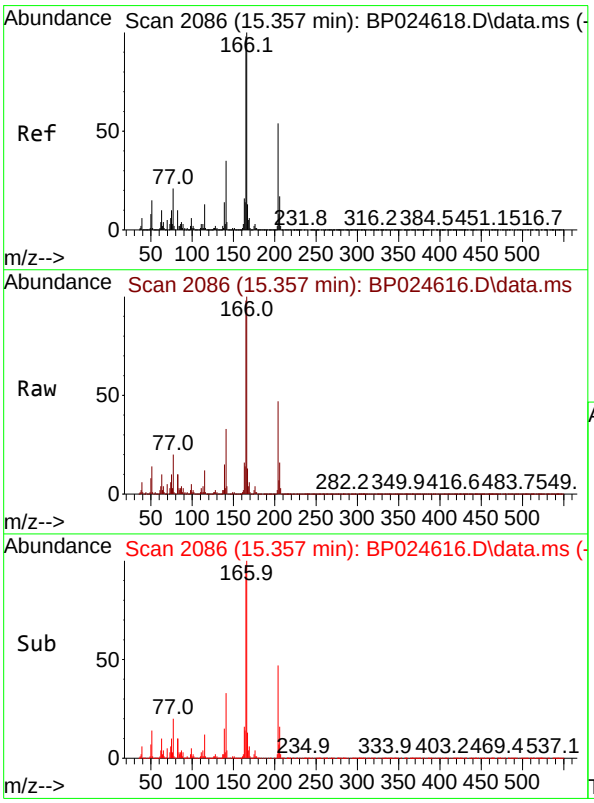
#57
2,4-Dinitrotoluene
Concen: 9.297 ng
RT: 14.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 56617

Ion	Ratio	Lower	Upper
165	100		
63	47.4	33.8	50.6
89	74.1	55.6	83.4
182	3.0	2.4	3.6

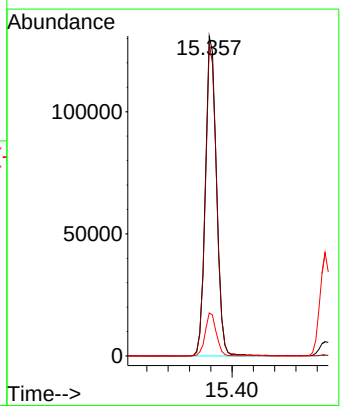


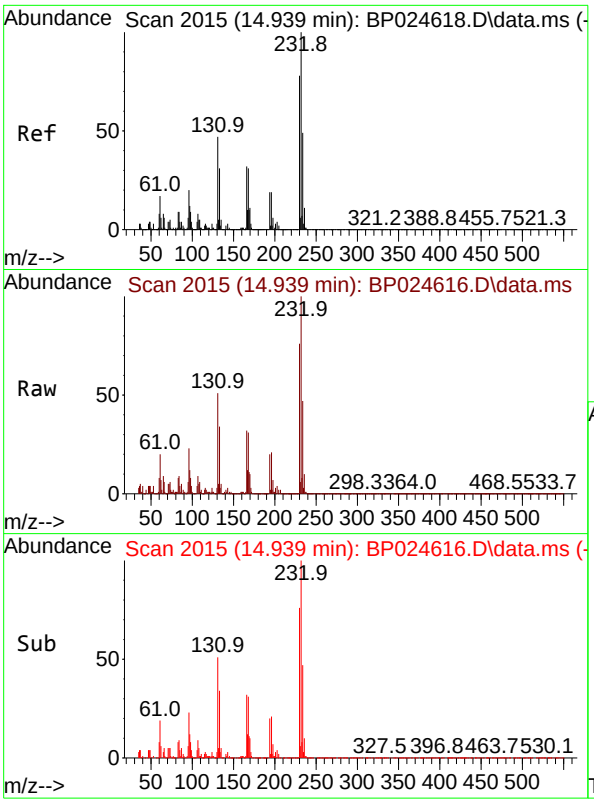


#58
Fluorene
Concen: 10.030 ng
RT: 15.357 min Scan# 2086
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:166 Resp: 189781

Ion	Ratio	Lower	Upper
166	100		
165	97.6	78.5	117.7
167	13.5	10.7	16.1



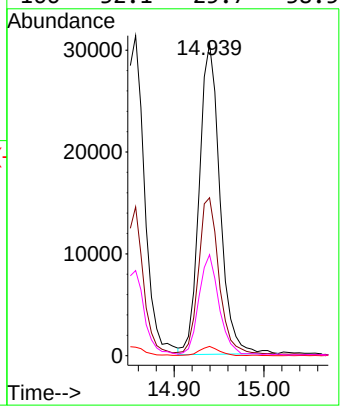


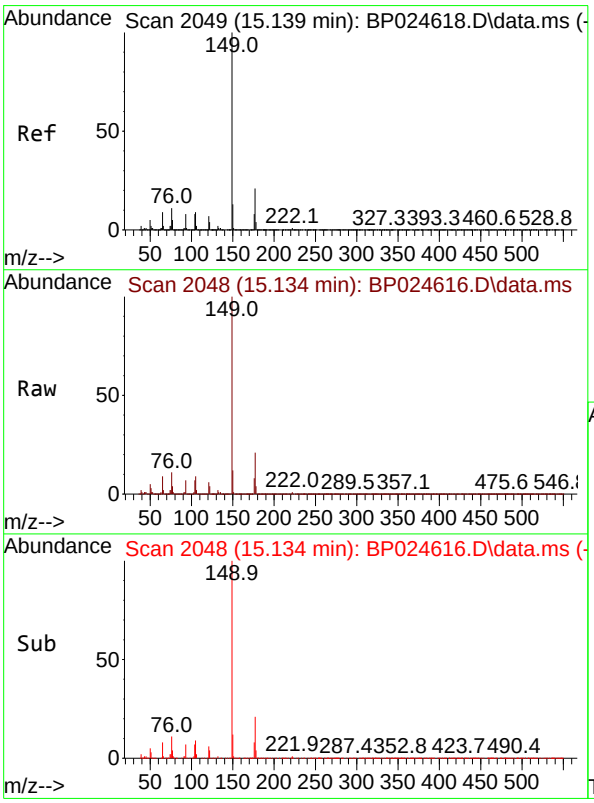
#59
2,3,4,6-Tetrachlorophenol
Concen: 9.368 ng
RT: 14.939 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:232 Resp: 48821

Ion	Ratio	Lower	Upper
232	100		
131	50.6	39.5	59.3
130	2.8	2.2	3.4
166	32.1	25.7	38.5

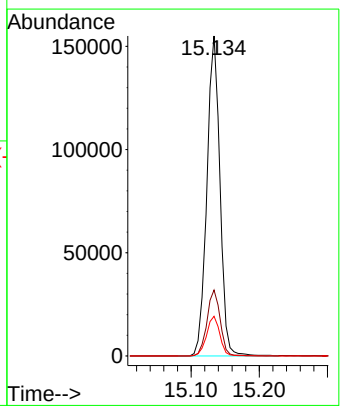


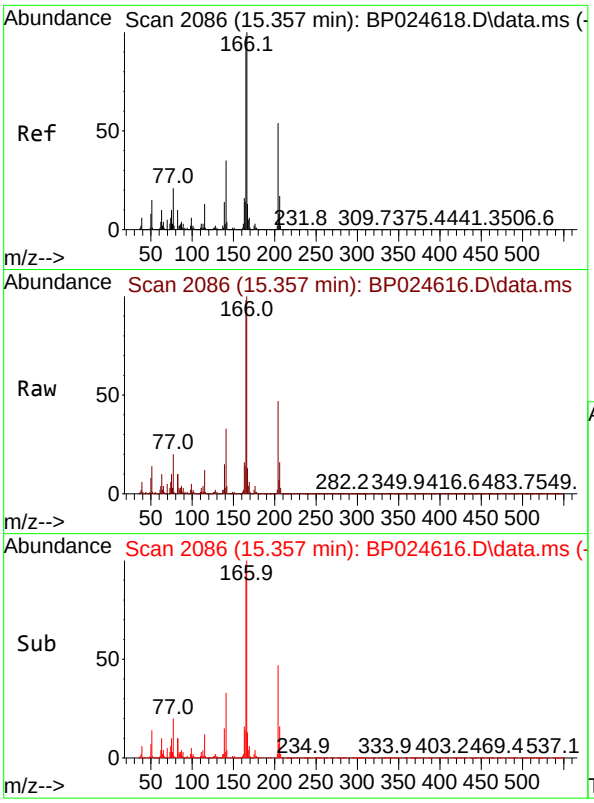


#60
Diethylphthalate
Concen: 10.008 ng
RT: 15.134 min Scan# 2048
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:149 Resp: 206886

Ion	Ratio	Lower	Upper
149	100		
177	20.6	16.7	25.1
150	12.4	10.2	15.2



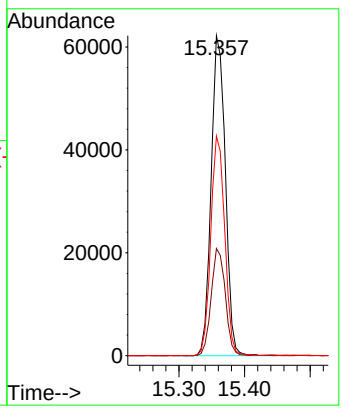


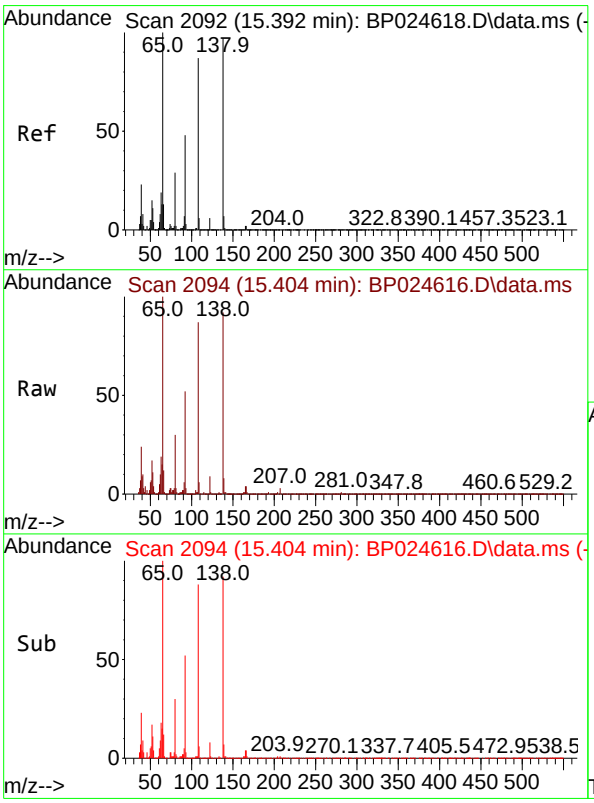
#61
4-Chlorophenyl-phenylether
Concen: 9.910 ng
RT: 15.357 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:204 Resp: 93517

Ion	Ratio	Lower	Upper
204	100		
206	33.5	26.0	39.0
141	68.7	52.9	79.3

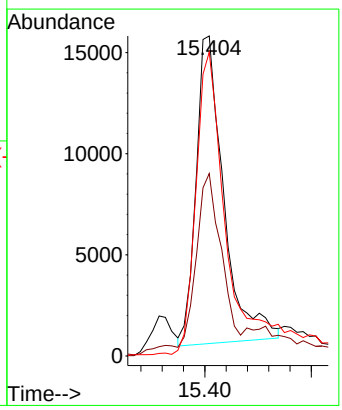


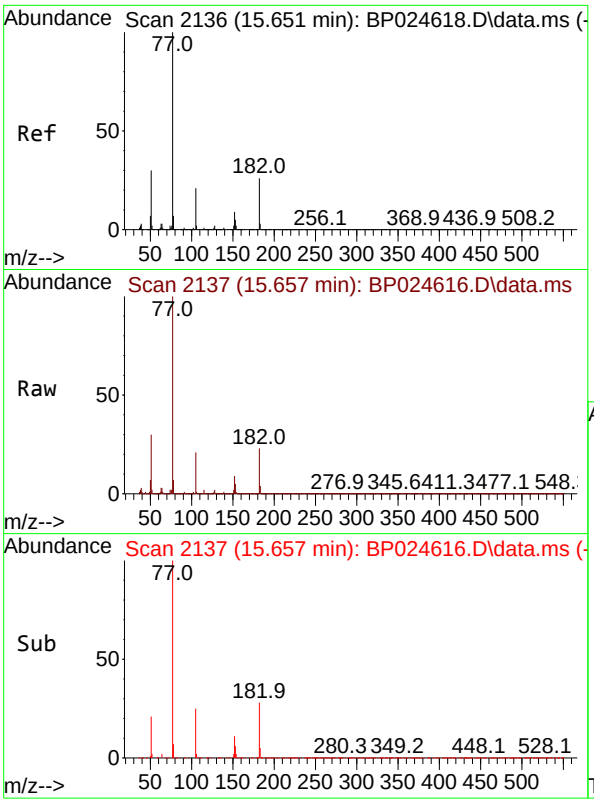


#62
4-Nitroaniline
Concen: 6.409 ng
RT: 15.404 min Scan# 2094
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:138 Resp: 27520

Ion	Ratio	Lower	Upper
138	100		
92	57.0	29.2	69.2
108	95.0	69.0	109.0



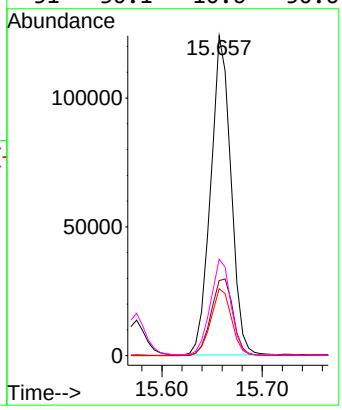


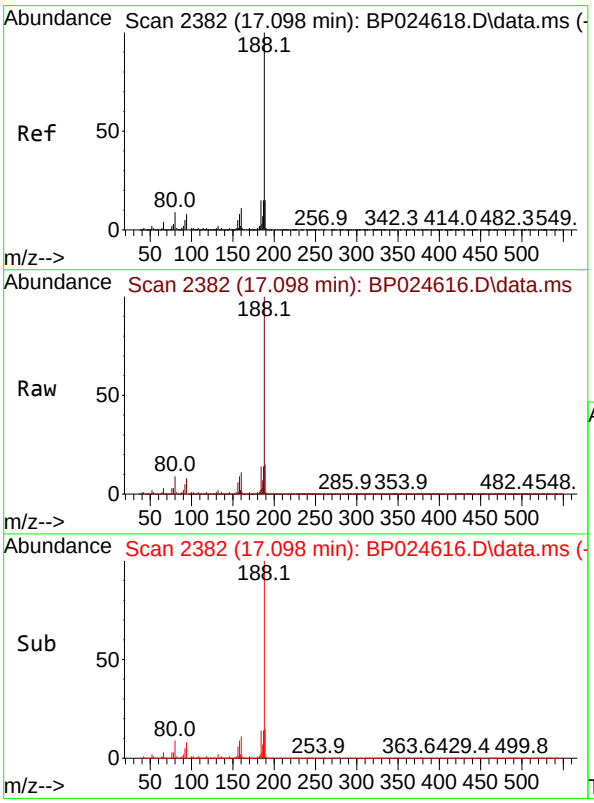
#63
Azobenzene
Concen: 9.858 ng
RT: 15.657 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 174322

Ion	Ratio	Lower	Upper
77	100		
182	23.5	5.7	45.7
105	20.9	1.3	41.3
51	30.1	10.6	50.6

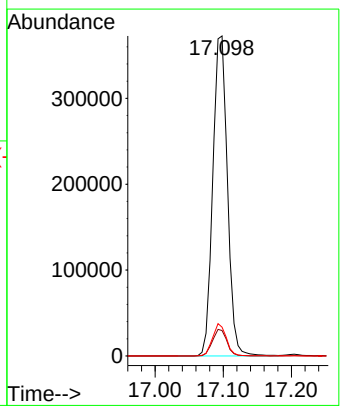


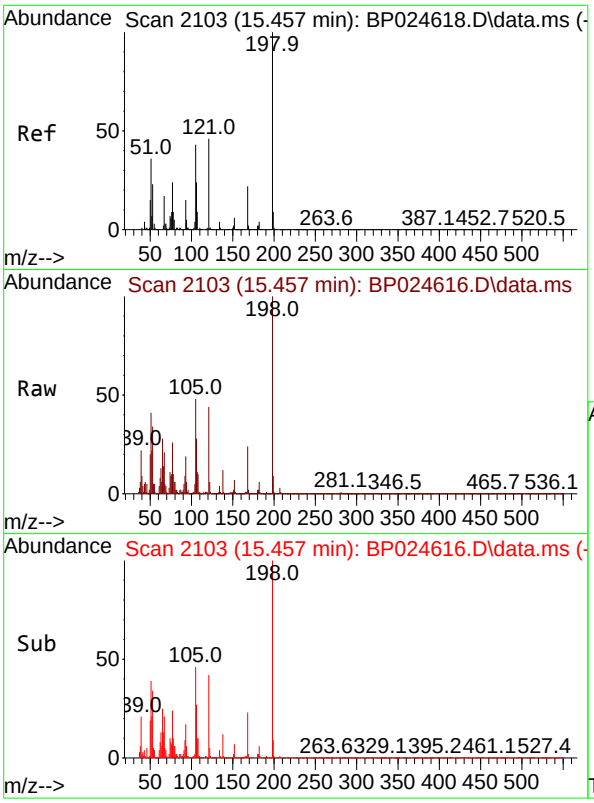


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.098 min Scan# 2382
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:188 Resp: 556673

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.5	9.7
80	9.0	7.3	10.9



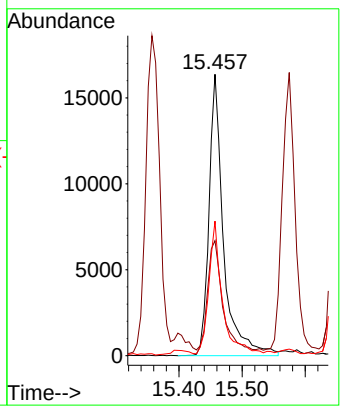


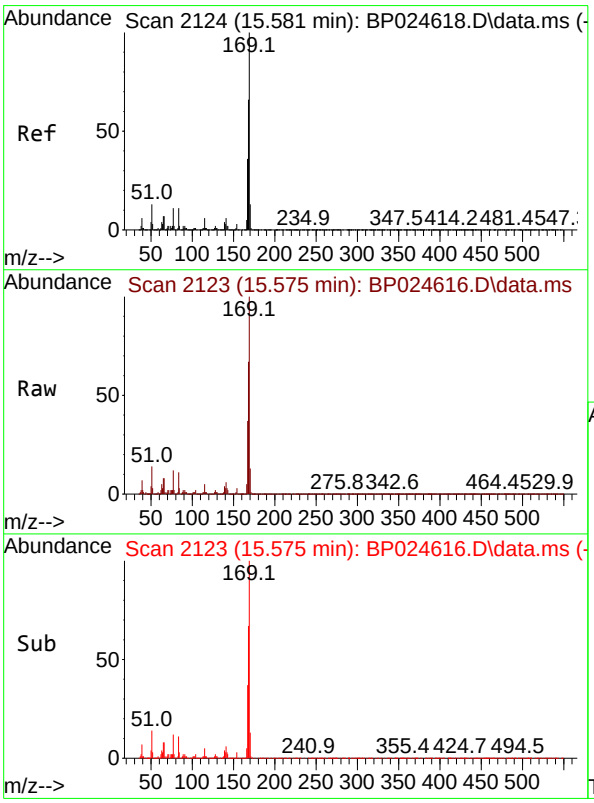
#65
4,6-Dinitro-2-methylphenol
Concen: 7.279 ng
RT: 15.457 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:198 Resp: 26174

Ion	Ratio	Lower	Upper
198	100		
51	40.9	21.1	61.1
105	47.8	23.6	63.6

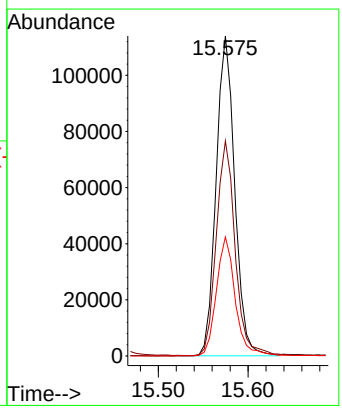


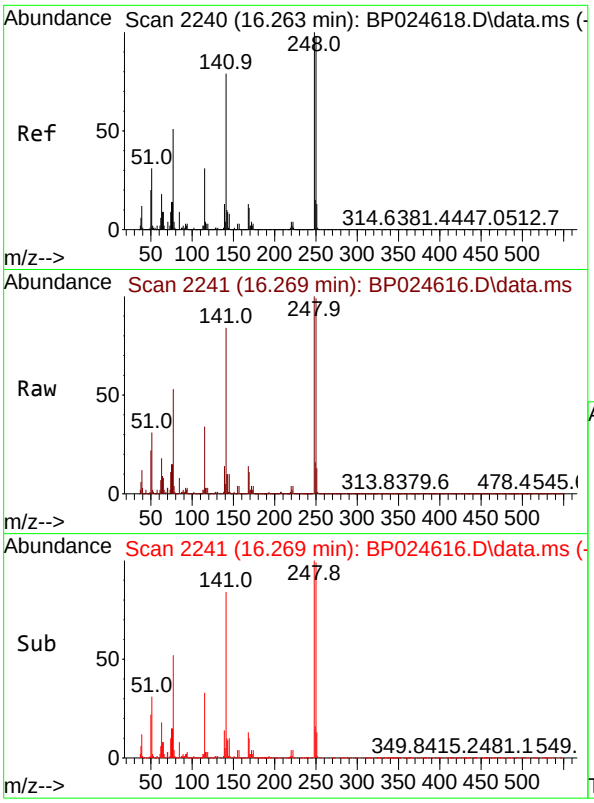


#66
n-Nitrosodiphenylamine
Concen: 9.592 ng
RT: 15.575 min Scan# 2123
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:169 Resp: 164008

Ion	Ratio	Lower	Upper
169	100		
168	67.2	53.2	79.8
167	37.2	28.6	43.0



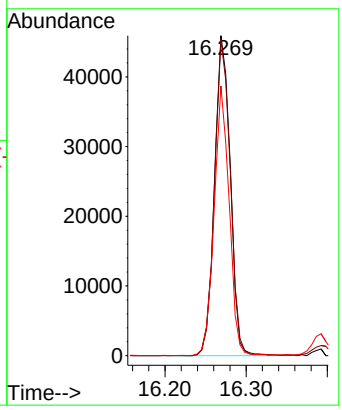


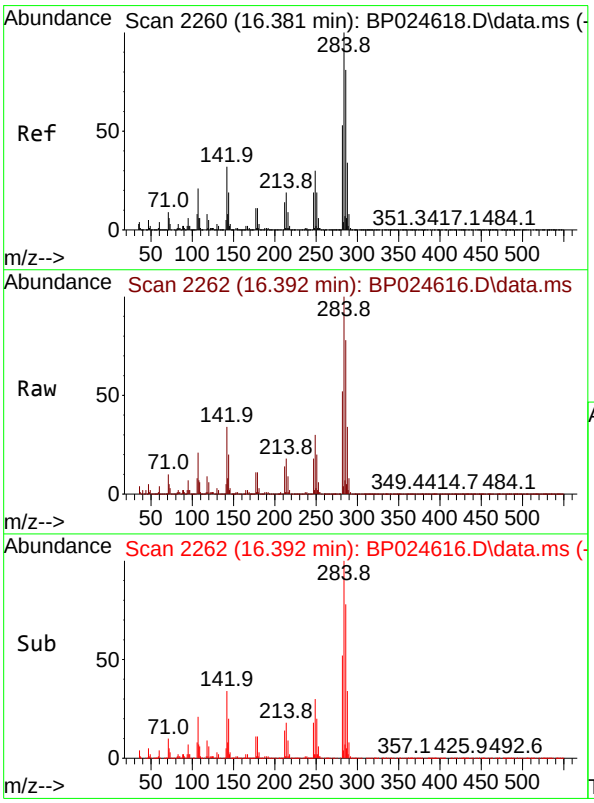
#67
4-Bromophenyl-phenylether
Concen: 9.454 ng
RT: 16.269 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:248 Resp: 62011

Ion	Ratio	Lower	Upper
248	100		
250	98.7	78.2	117.4
141	84.3	63.0	94.6

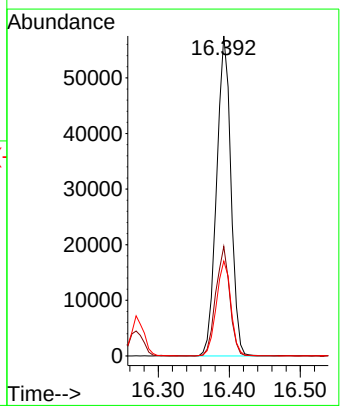


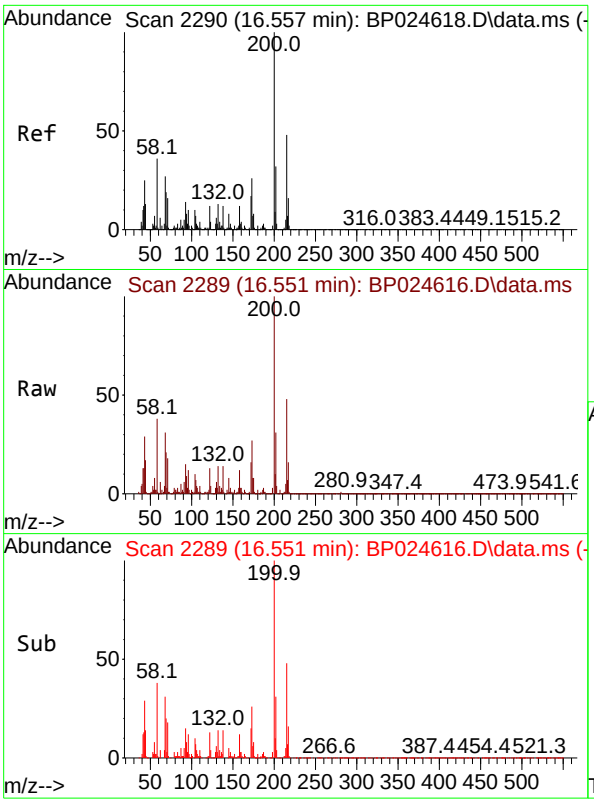


#68
Hexachlorobenzene
Concen: 9.609 ng
RT: 16.392 min Scan# 2262
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:284 Resp: 80088

Ion	Ratio	Lower	Upper
284	100		
142	34.2	25.9	38.9
249	29.6	24.1	36.1



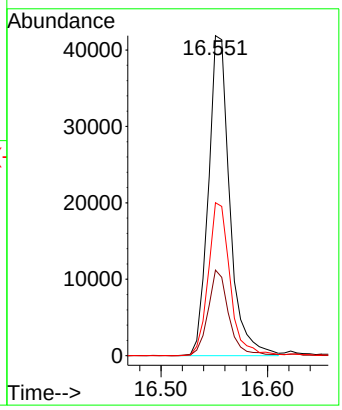


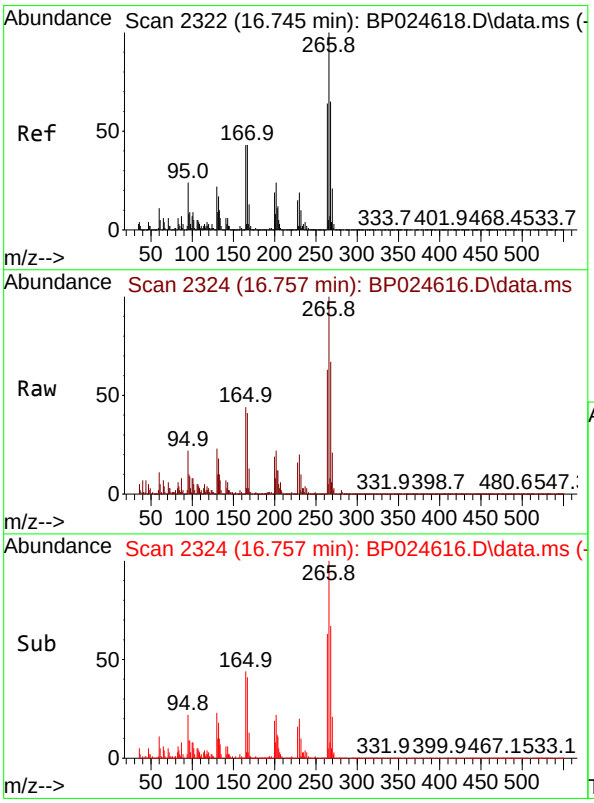
#69
Atrazine
Concen: 9.295 ng
RT: 16.551 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:200 Resp: 58245

Ion	Ratio	Lower	Upper
200	100		
173	26.8	5.9	45.9
215	47.8	28.3	68.3

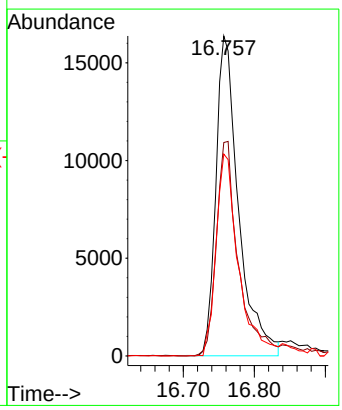


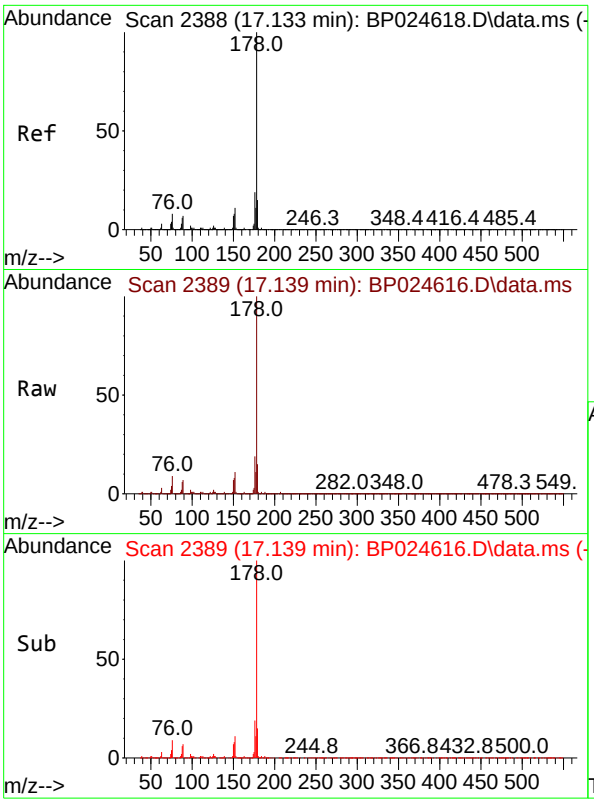


#70
Pentachlorophenol
Concen: 7.733 ng
RT: 16.757 min Scan# 2324
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:266 Resp: 36201

Ion	Ratio	Lower	Upper
266	100		
268	66.7	52.2	78.4
264	63.1	51.1	76.7



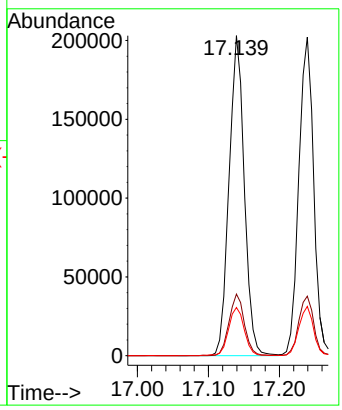


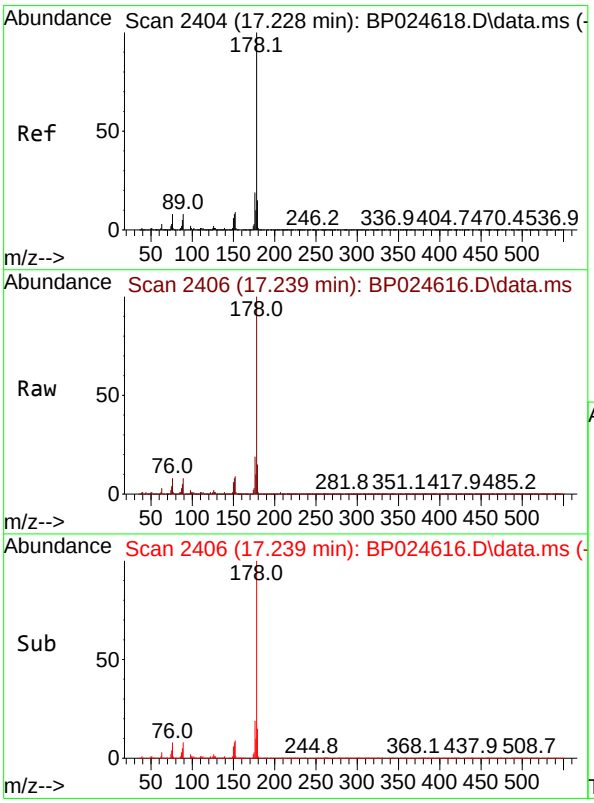
#71
Phenanthrene
Concen: 9.754 ng
RT: 17.139 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 301863

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.1	12.2	18.4

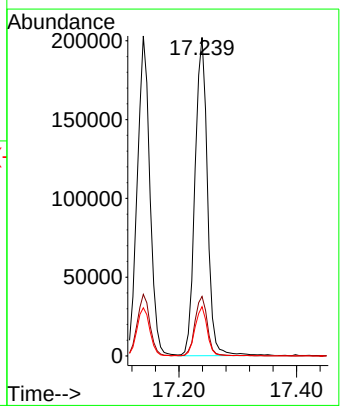


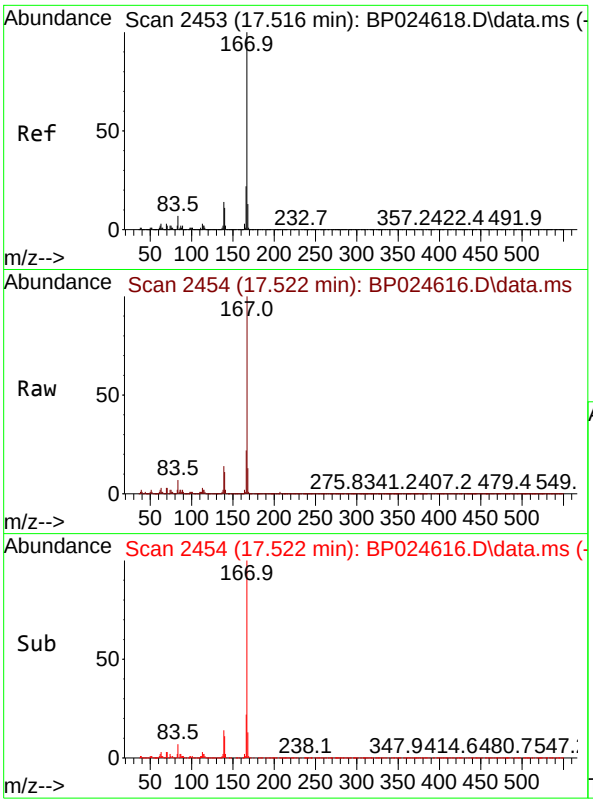


#72
Anthracene
Concen: 9.512 ng
RT: 17.239 min Scan# 2406
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:178 Resp: 296146

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.5	12.2	18.2



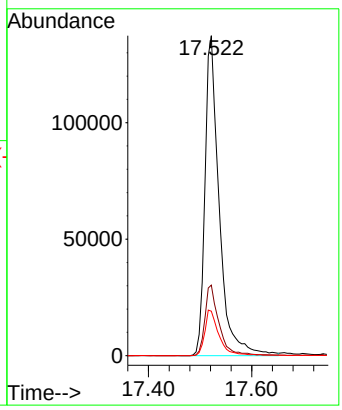


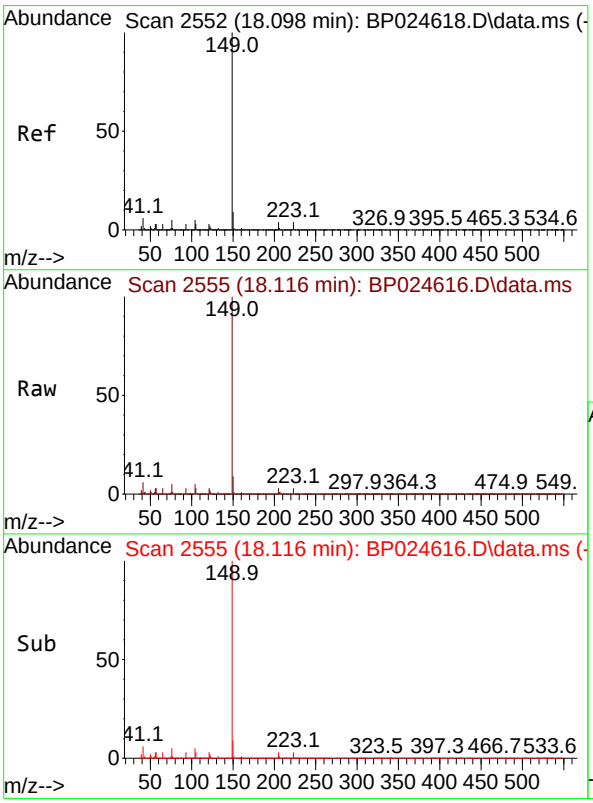
#73
Carbazole
Concen: 9.322 ng
RT: 17.522 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:167 Resp: 262687

Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.7	26.5
139	13.9	11.3	16.9

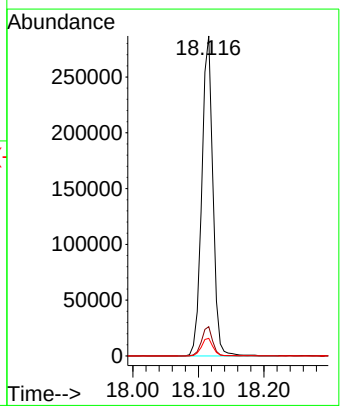


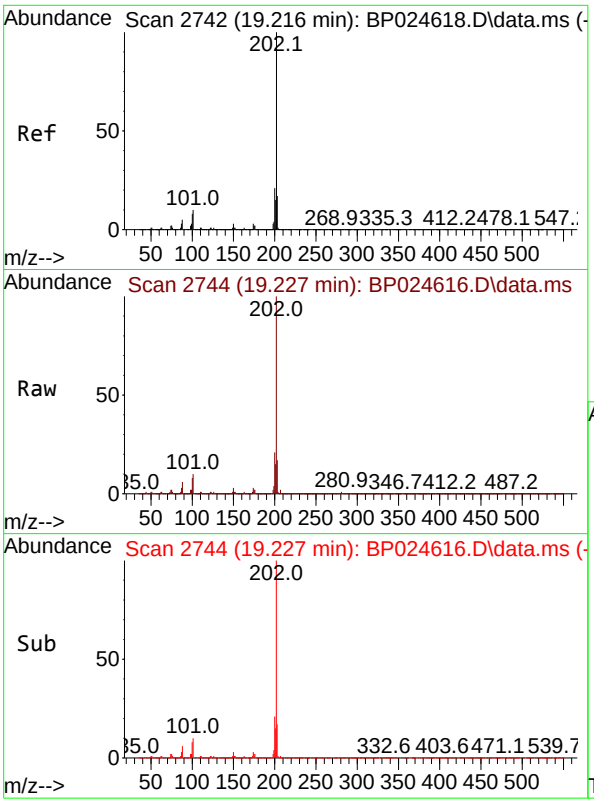


#74
Di-n-butylphthalate
Concen: 9.351 ng
RT: 18.116 min Scan# 2555
Delta R.T. 0.018 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:149 Resp: 338893

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.2	10.8
104	5.5	4.3	6.5



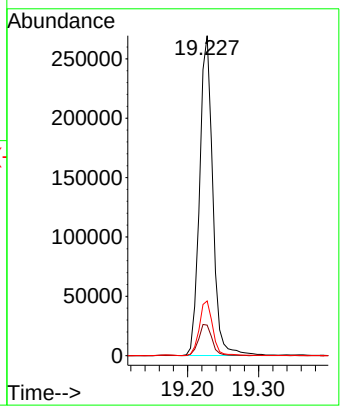


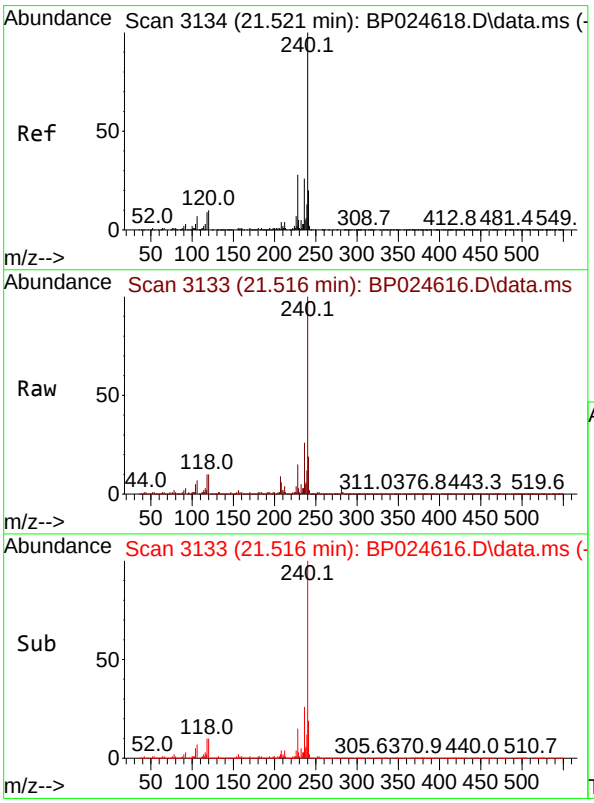
#75
Fluoranthene
Concen: 9.650 ng
RT: 19.227 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:202 Resp: 349083

Ion	Ratio	Lower	Upper
202	100		
101	9.6	0.0	30.3
203	17.1	0.0	37.5

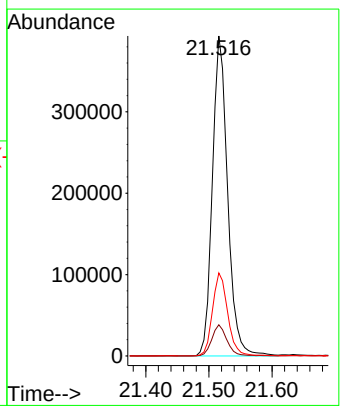


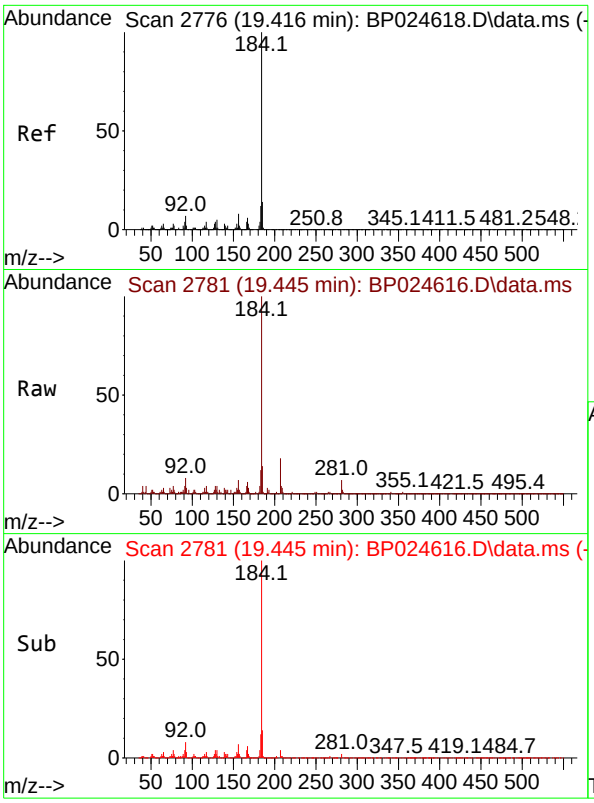


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.516 min Scan# 3133
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:240 Resp: 659092

Ion	Ratio	Lower	Upper
240	100		
120	9.8	7.8	11.6
236	25.9	20.6	31.0



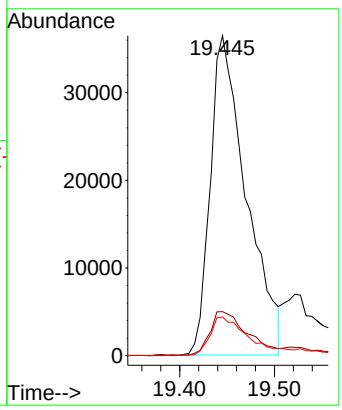


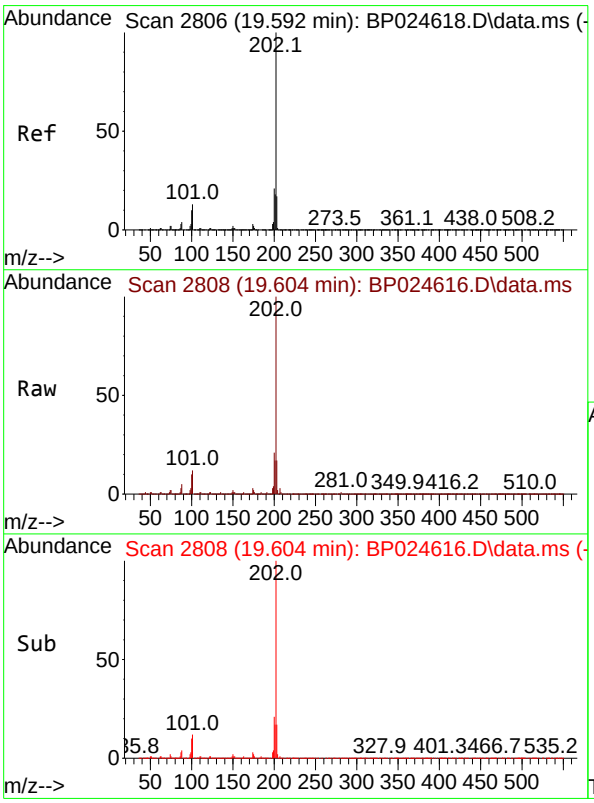
#77
Benzidine
Concen: 5.316 ng
RT: 19.445 min Scan# 2
Delta R.T. 0.029 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:184 Resp: 96179

Ion	Ratio	Lower	Upper
184	100		
185	13.7	11.2	16.8
183	12.1	9.8	14.8

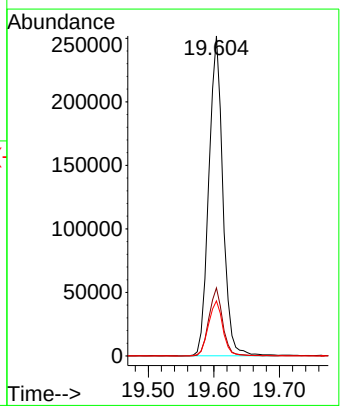


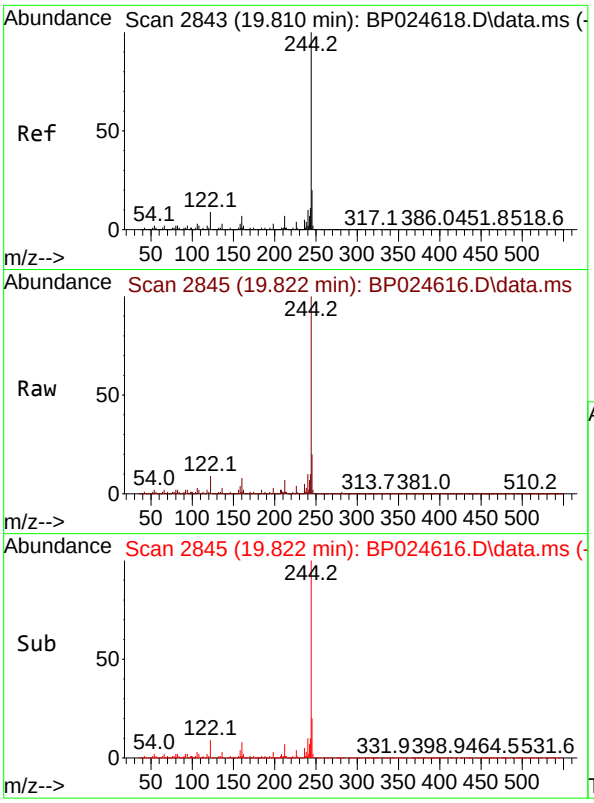


#78
Pyrene
Concen: 9.485 ng
RT: 19.604 min Scan# 2808
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:202 Resp: 374573

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	17.2	13.9	20.9



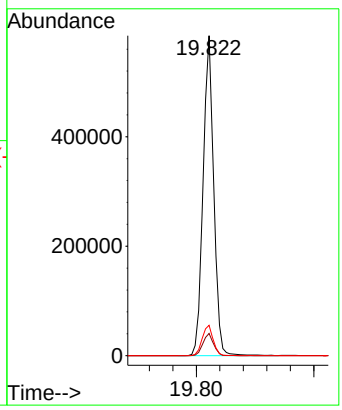


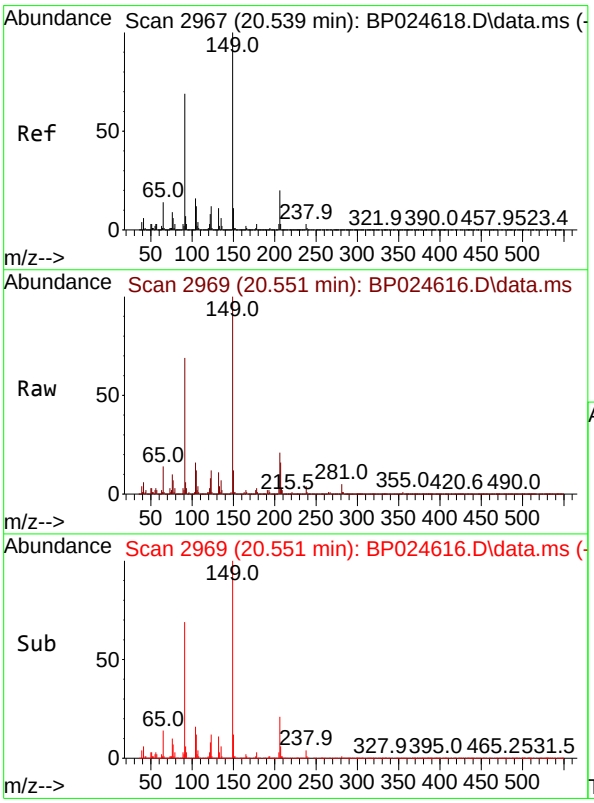
#79
Terphenyl-d14
Concen: 19.088 ng
RT: 19.822 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:244 Resp: 733687

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	9.5	7.4	11.0

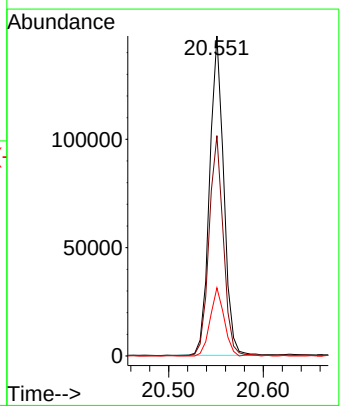


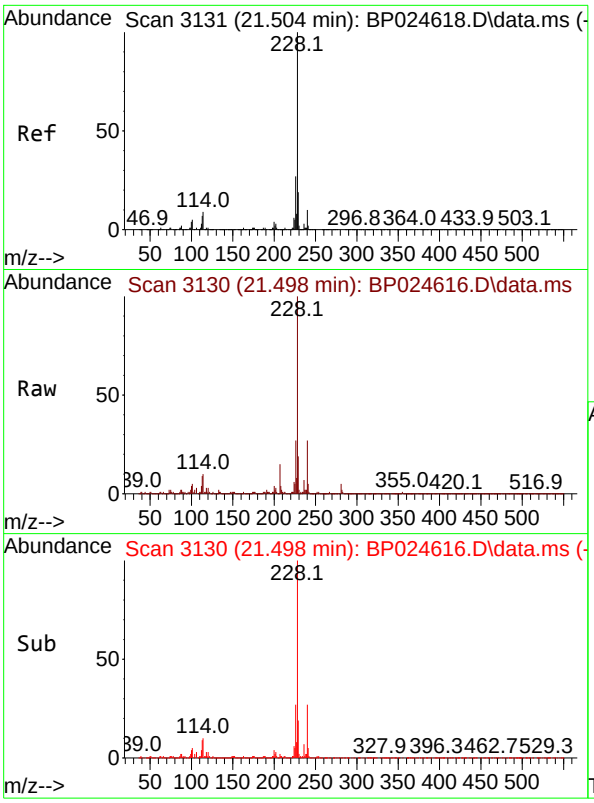


#80
Butylbenzylphthalate
Concen: 8.727 ng
RT: 20.551 min Scan# 2969
Delta R.T. 0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:149 Resp: 153275

Ion	Ratio	Lower	Upper
149	100		
91	68.8	55.4	83.0
206	21.3	16.2	24.2



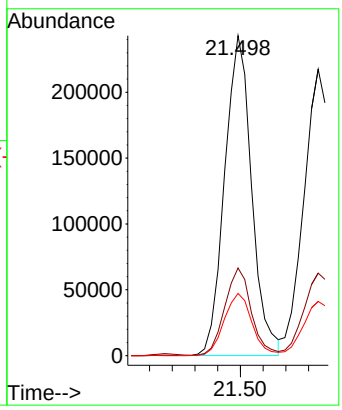


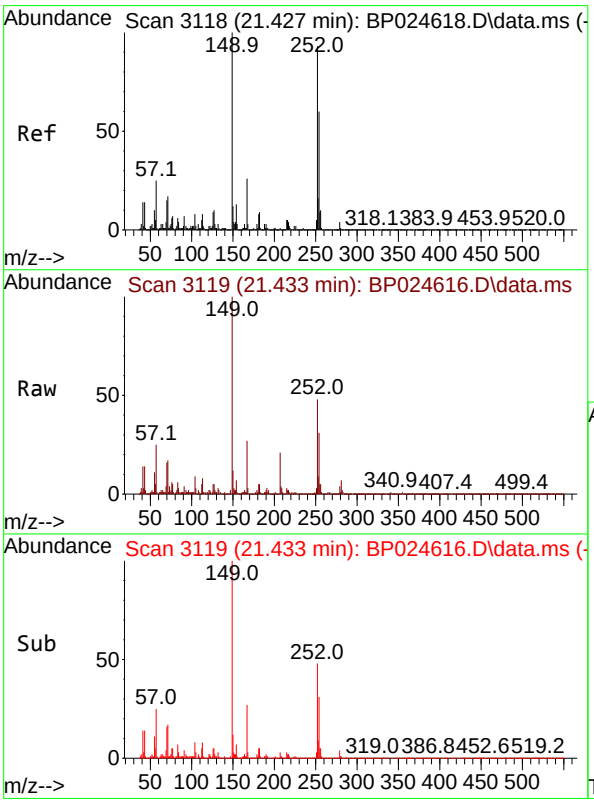
#81
Benzo(a)anthracene
Concen: 9.697 ng
RT: 21.498 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 401322

Ion	Ratio	Lower	Upper
228	100		
226	27.4	21.4	32.0
229	19.5	15.5	23.3

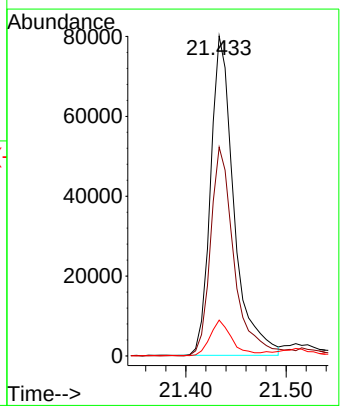


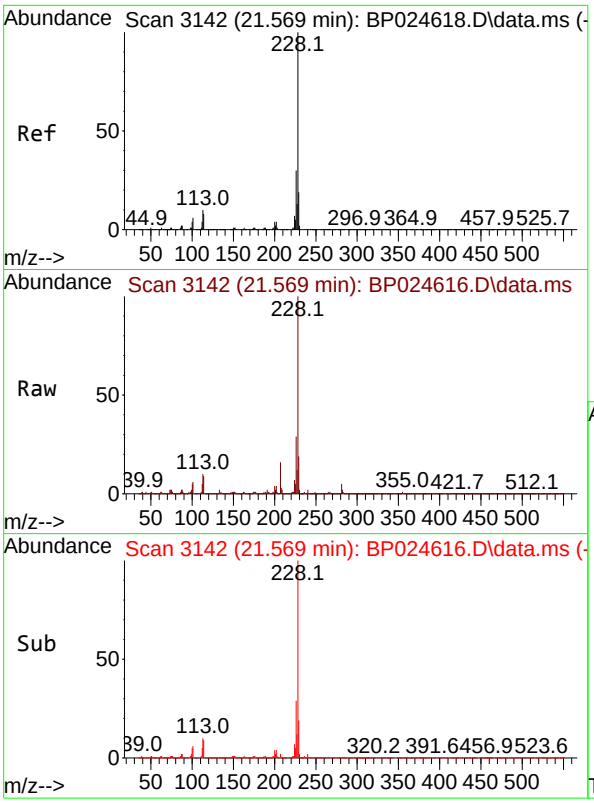


#82
3,3'-Dichlorobenzidine
Concen: 8.413 ng
RT: 21.433 min Scan# 3119
Delta R.T. 0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:252 Resp: 129324

Ion	Ratio	Lower	Upper
252	100		
254	65.2	51.8	77.6
126	11.2	7.7	11.5



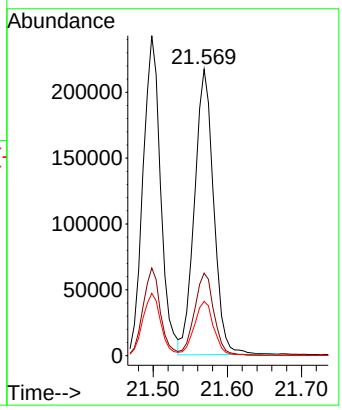


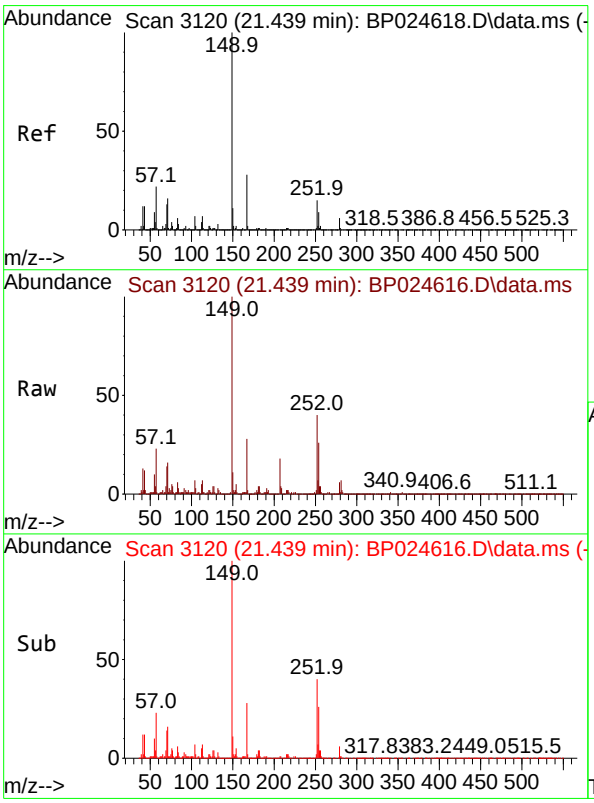
#83
Chrysene
Concen: 9.912 ng
RT: 21.569 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 388846

Ion	Ratio	Lower	Upper
228	100		
226	28.8	23.9	35.9
229	19.0	15.5	23.3

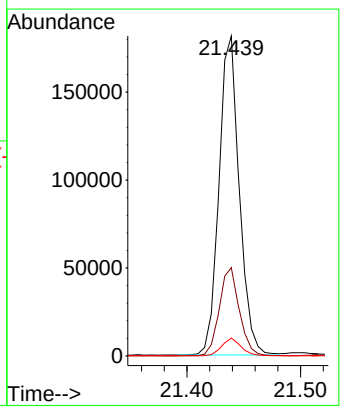


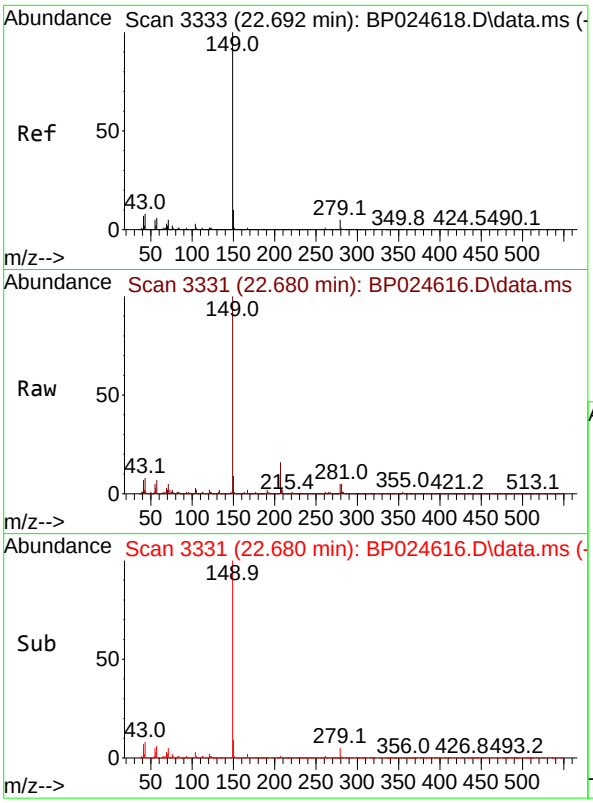


#84
Bis(2-ethylhexyl)phthalate
Concen: 8.718 ng
RT: 21.439 min Scan# 3120
Delta R.T. -0.000 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:149 Resp: 225047

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.1	33.1
279	5.6	4.6	6.8



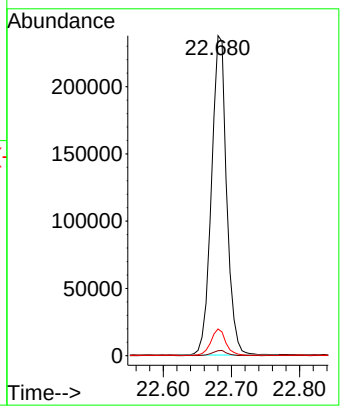


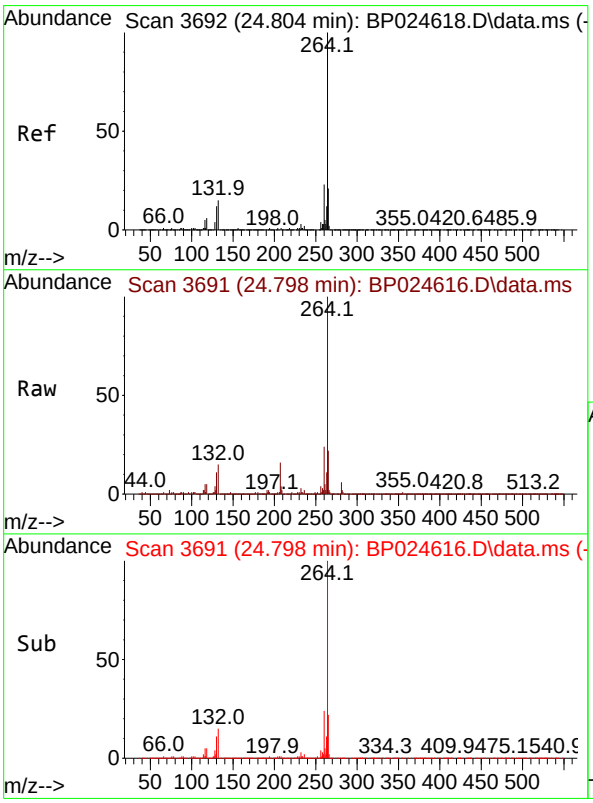
#85
Di-n-octyl phthalate
Concen: 8.716 ng
RT: 22.680 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:149 Resp: 367934

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	8.0	6.3	9.5

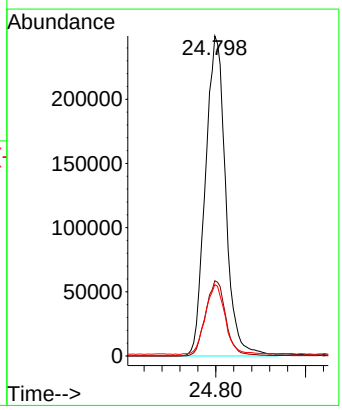


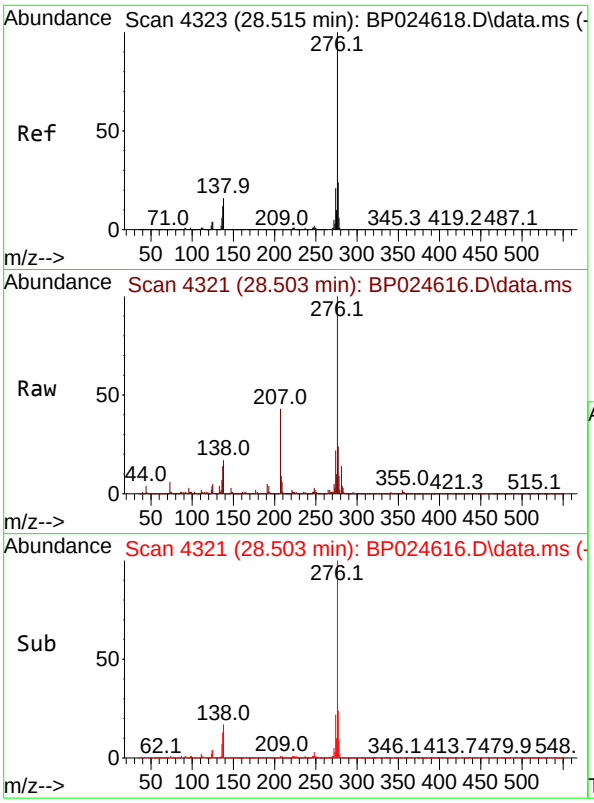


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.798 min Scan# 3691
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:264 Resp: 780142

Ion	Ratio	Lower	Upper
264	100		
260	23.5	18.7	28.1
265	22.3	17.0	25.6



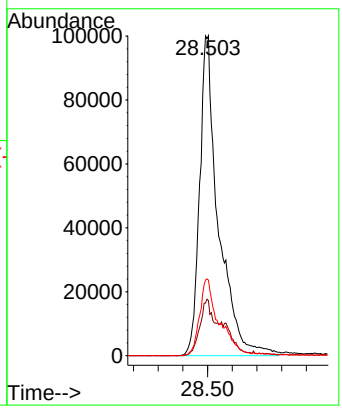


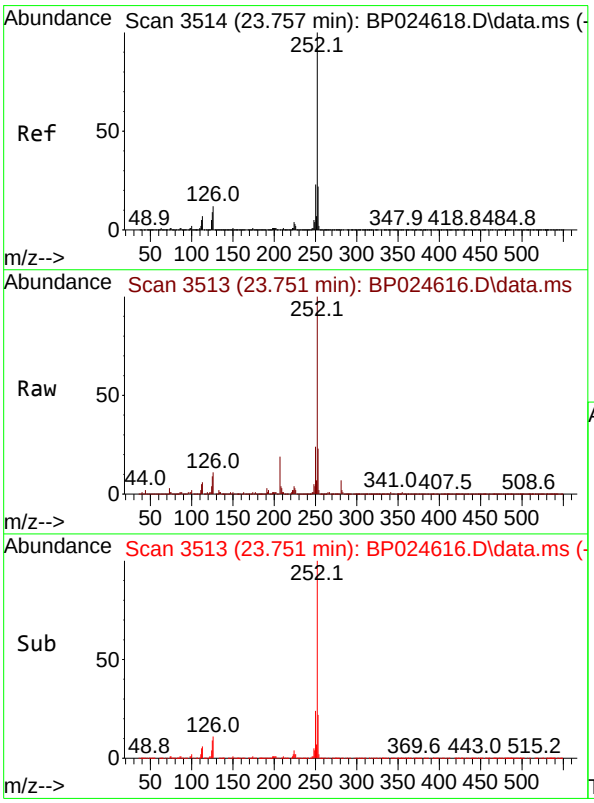
#87
Indeno(1,2,3-cd)pyrene
Concen: 9.290 ng
RT: 28.503 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:276 Resp: 529260

Ion	Ratio	Lower	Upper
276	100		
138	15.5	11.2	16.8
277	24.8	15.7	23.5#

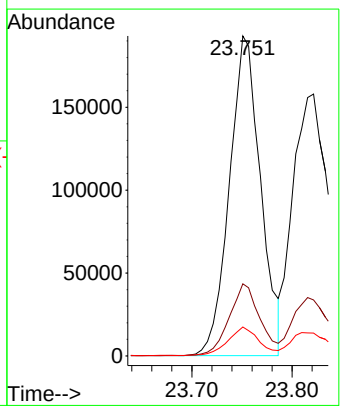


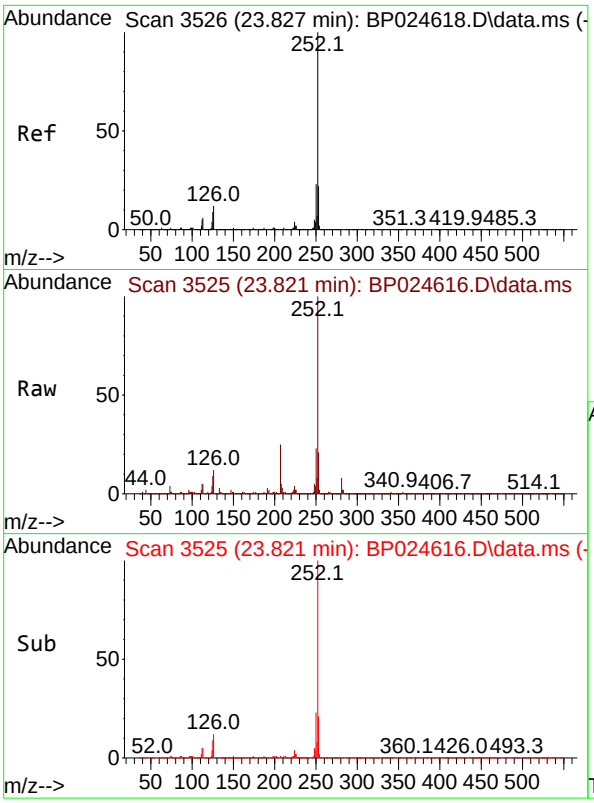


#88
Benzo(b)fluoranthene
Concen: 9.346 ng
RT: 23.751 min Scan# 3513
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:252 Resp: 417343

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.7	26.5
125	9.1	7.5	11.3



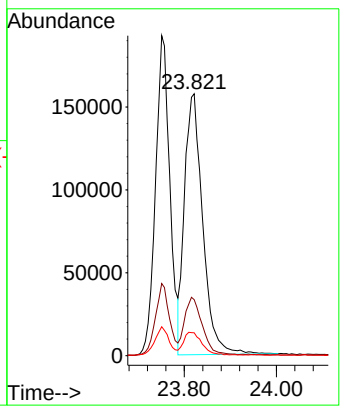


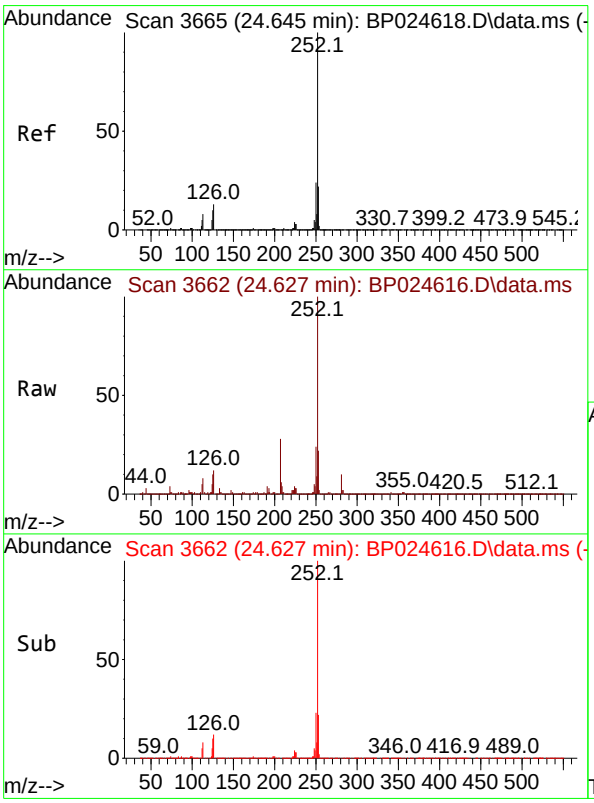
#89
Benzo(k)fluoranthene
Concen: 9.379 ng
RT: 23.821 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:252 Resp: 431575

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.6	26.4
125	8.7	7.0	10.4

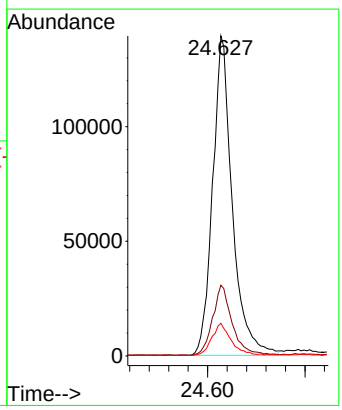


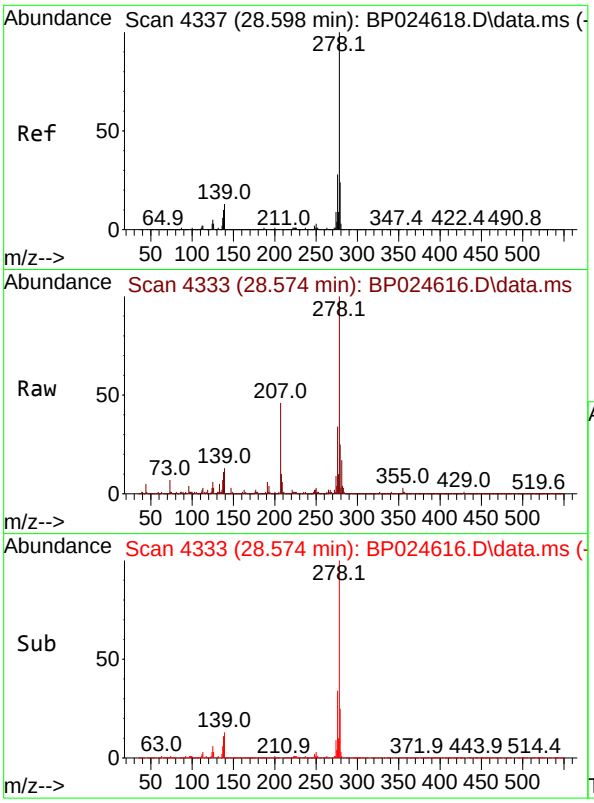


#90
Benzo(a)pyrene
Concen: 9.100 ng
RT: 24.627 min Scan# 3662
Delta R.T. -0.018 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:252 Resp: 390288

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.2	8.1	12.1



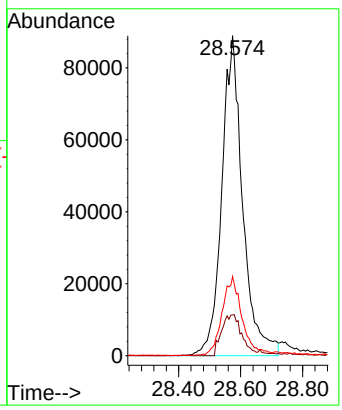


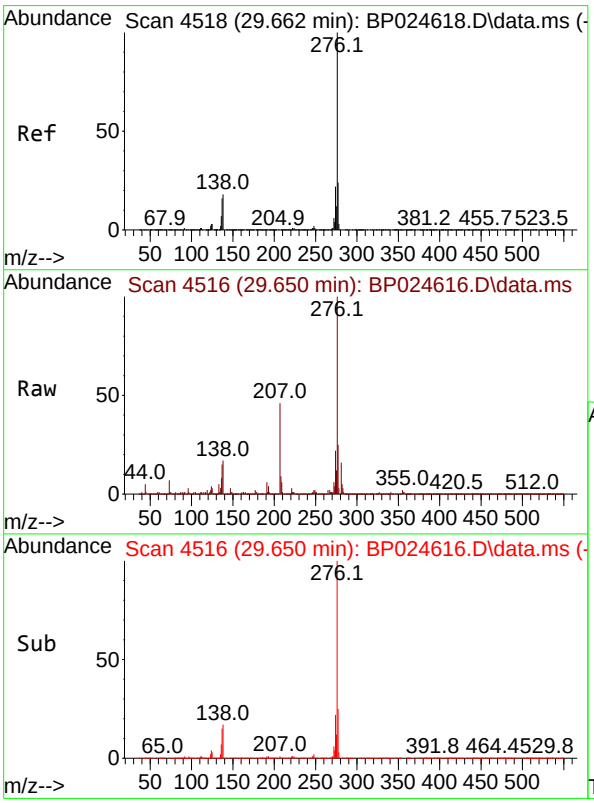
#91
Dibenzo(a,h)anthracene
Concen: 8.973 ng
RT: 28.574 min Scan# 4
Delta R.T. -0.024 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Instrument :
BNA_P
ClientSampleId :
SSTDICC010

Tgt Ion:278 Resp: 415768

Ion	Ratio	Lower	Upper
278	100		
139	12.7	10.2	15.4
279	24.7	19.0	28.4

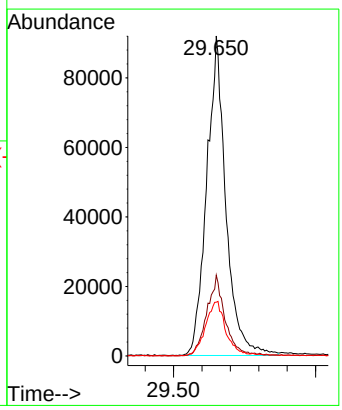




#92
Benzo(g,h,i)perylene
Concen: 9.366 ng
RT: 29.650 min Scan# 4516
Delta R.T. -0.012 min
Lab File: BP024616.D
Acq: 13 May 2025 12:03

Tgt Ion:276 Resp: 431559

Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.0	28.4
138	16.8	14.4	21.6



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024617.D
Acq On : 13 May 2025 12:43
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Quant Time: May 13 16:05:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.664	152	112650	20.000	ng		0.00
21) Naphthalene-d8	10.434	136	488721	20.000	ng		0.00
39) Acenaphthene-d10	14.299	164	323928	20.000	ng		0.00
64) Phenanthrene-d10	17.087	188	644367	20.000	ng		-0.01
76) Chrysene-d12	21.522	240	745224	20.000	ng		0.00
86) Perylene-d12	24.792	264	850264	20.000	ng		-0.01
System Monitoring Compounds							
5) 2-Fluorophenol	5.287	112	261821	39.752	ng		0.00
7) Phenol-d6	6.858	99	334811	39.830	ng		0.00
23) Nitrobenzene-d5	8.811	82	391739	40.500	ng		0.00
42) 2,4,6-Tribromophenol	15.810	330	217092	39.532	ng		0.00
45) 2-Fluorobiphenyl	12.904	172	1006150	40.694	ng		0.00
79) Terphenyl-d14	19.810	244	1736879	39.964	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.229	88	60251	19.481	ng		98
3) Pyridine	3.628	79	135451	19.752	ng		99
4) n-Nitrosodimethylamine	3.540	42	59324	19.595	ng		99
6) Aniline	7.005	93	217646	20.054	ng		100
8) 2-Chlorophenol	7.240	128	147726	19.758	ng		99
9) Benzaldehyde	6.822	77	120893	22.255	ng		96
10) Phenol	6.881	94	171949	19.819	ng		99
11) bis(2-Chloroethyl)ether	7.099	93	141599	19.862	ng		99
12) 1,3-Dichlorobenzene	7.552	146	171270	19.910	ng		99
13) 1,4-Dichlorobenzene	7.699	146	171756	19.852	ng		98
14) 1,2-Dichlorobenzene	8.011	146	168795	20.022	ng		99
15) Benzyl Alcohol	7.911	79	127076	19.893	ng		99
16) 2,2'-oxybis(1-Chloropr...	8.187	45	171274	20.061	ng		100
17) 2-Methylphenol	8.111	107	124506	20.008	ng		99
18) Hexachloroethane	8.728	117	65527	19.764	ng		97
19) n-Nitroso-di-n-propyla...	8.458	70	122386	21.048	ng		98
20) 3+4-Methylphenols	8.440	107	169264	19.997	ng		97
22) Acetophenone	8.481	105	249692	20.453	ng	#	100
24) Nitrobenzene	8.858	77	173686	20.405	ng		99
25) Isophorone	9.375	82	339697	20.246	ng		100
26) 2-Nitrophenol	9.563	139	82278	19.726	ng		98
27) 2,4-Dimethylphenol	9.622	122	146819	19.965	ng		97
28) bis(2-Chloroethoxy)met...	9.852	93	200872	20.039	ng		99
29) 2,4-Dichlorophenol	10.099	162	141785	19.896	ng		98
30) 1,2,4-Trichlorobenzene	10.299	180	159998	19.924	ng		95
31) Naphthalene	10.481	128	512888	20.251	ng		100
32) Benzoic acid	9.746	122	56285	16.180	ng		98
33) 4-Chloroaniline	10.605	127	205433	20.102	ng		99
34) Hexachlorobutadiene	10.763	225	103364	19.869	ng		99
35) Caprolactam	11.381	113	50721	19.683	ng		99
36) 4-Chloro-3-methylphenol	11.734	107	174840	20.118	ng		99
37) 2-Methylnaphthalene	12.093	142	327447	19.968	ng		99
38) 1-Methylnaphthalene	12.316	142	352091	20.066	ng		100
40) 1,2,4,5-Tetrachloroben...	12.469	216	185982	19.772	ng		99
41) Hexachlorocyclopentadiene	12.440	237	113499	19.899	ng		98
43) 2,4,6-Trichlorophenol	12.722	196	121520	19.945	ng		100

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024617.D
Acq On : 13 May 2025 12:43
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Quant Time: May 13 16:05:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.799	196	135306	19.951	ng		98
46) 1,1'-Biphenyl	13.116	154	483352	20.189	ng		100
47) 2-Chloronaphthalene	13.163	162	366247	20.063	ng		100
48) 2-Nitroaniline	13.375	65	107062	19.809	ng		98
49) Acenaphthylene	14.016	152	621997	20.360	ng		100
50) Dimethylphthalate	13.751	163	491623	19.912	ng		99
51) 2,6-Dinitrotoluene	13.869	165	105479	20.228	ng		97
52) Acenaphthene	14.357	154	354519	20.186	ng		99
53) 3-Nitroaniline	14.210	138	106527	20.008	ng		98
54) 2,4-Dinitrophenol	14.428	184	46351	19.370	ng		91
55) Dibenzofuran	14.698	168	563719	20.123	ng		99
56) 4-Nitrophenol	14.551	139	71975	19.022	ng		93
57) 2,4-Dinitrotoluene	14.675	165	147676	20.088	ng		99
58) Fluorene	15.357	166	456792	19.998	ng		99
59) 2,3,4,6-Tetrachlorophenol	14.934	232	123265	19.593	ng		99
60) Diethylphthalate	15.128	149	497916	19.953	ng		99
61) 4-Chlorophenyl-phenyle...	15.351	204	226790	19.909	ng		98
62) 4-Nitroaniline	15.393	138	105617	20.374	ng		99
63) Azobenzene	15.651	77	439183	20.573	ng		99
65) 4,6-Dinitro-2-methylph...	15.451	198	77131	18.531	ng		96
66) n-Nitrosodiphenylamine	15.575	169	404085	20.416	ng		99
67) 4-Bromophenyl-phenylether	16.263	248	152393	20.071	ng		97
68) Hexachlorobenzene	16.381	284	192290	19.930	ng		99
69) Atrazine	16.545	200	146468	20.193	ng		99
70) Pentachlorophenol	16.740	266	104916	19.360	ng		98
71) Phenanthrene	17.128	178	724922	20.237	ng		100
72) Anthracene	17.222	178	735787	20.416	ng		100
73) Carbazole	17.510	167	669730	20.531	ng		99
74) Di-n-butylphthalate	18.092	149	858522	20.464	ng		100
75) Fluoranthene	19.210	202	846684	20.220	ng		100
77) Benzidine	19.422	184	404890	19.793	ng		99
78) Pyrene	19.592	202	892037	19.977	ng		99
80) Butylbenzylphthalate	20.539	149	400050	20.145	ng		97
81) Benzo(a)anthracene	21.498	228	933614	19.952	ng		99
82) 3,3'-Dichlorobenzidine	21.428	252	353000	20.310	ng		100
83) Chrysene	21.569	228	883001	19.906	ng		99
84) Bis(2-ethylhexyl)phtha...	21.439	149	597012	20.454	ng		98
85) Di-n-octyl phthalate	22.686	149	947571	19.852	ng		99
87) Indeno(1,2,3-cd)pyrene	28.486	276	1047319	16.867	ng	#	90
88) Benzo(b)fluoranthene	23.757	252	979873	20.134	ng		99
89) Benzo(k)fluoranthene	23.822	252	1005349	20.047	ng		100
90) Benzo(a)pyrene	24.627	252	945764	20.234	ng		100
91) Dibenzo(a,h)anthracene	28.568	278	1008288	19.966	ng		99
92) Benzo(g,h,i)perylene	29.627	276	991852	19.751	ng		99

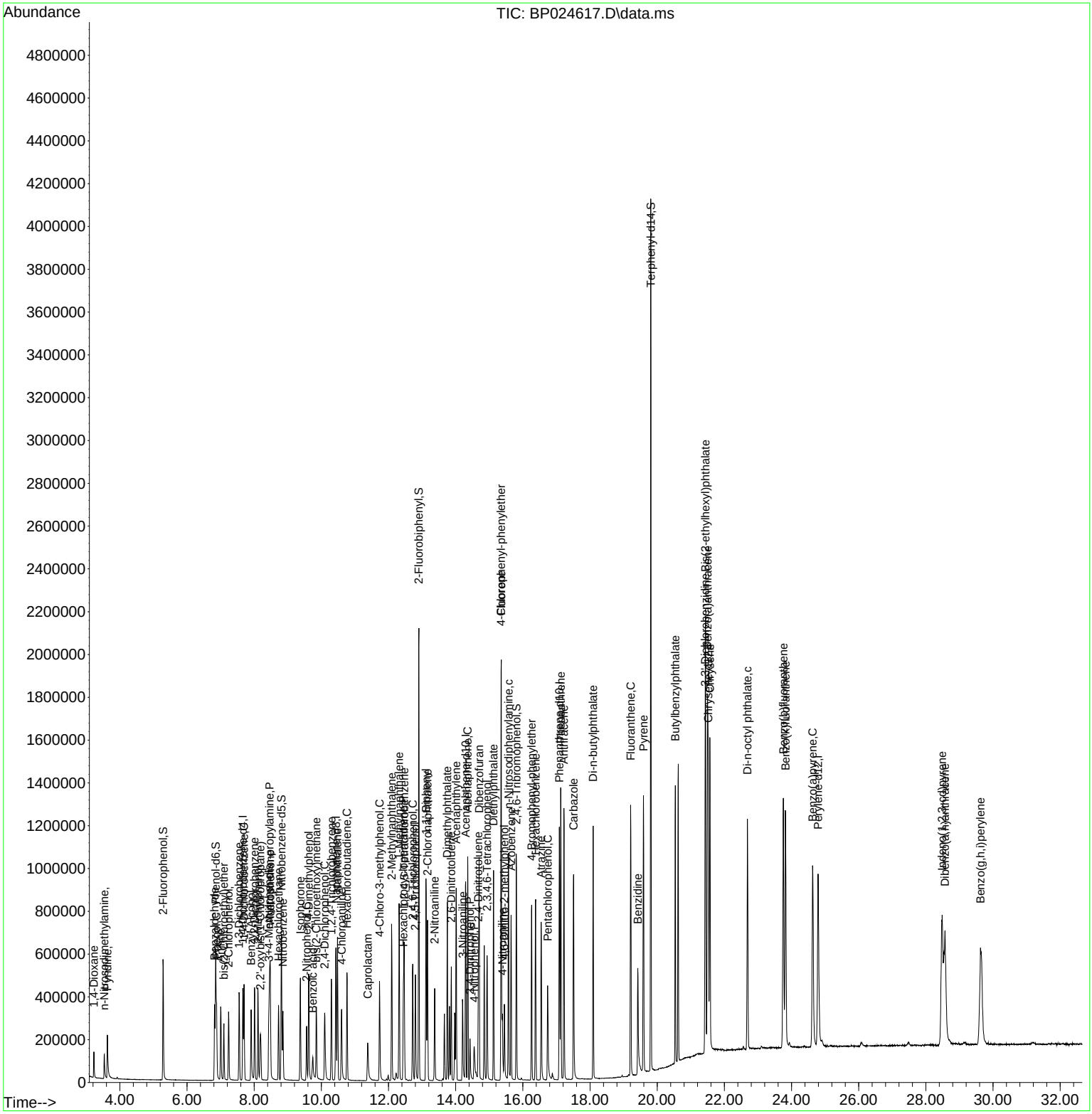
(#) = qualifier out of range (m) = manual integration (+) = signals summed

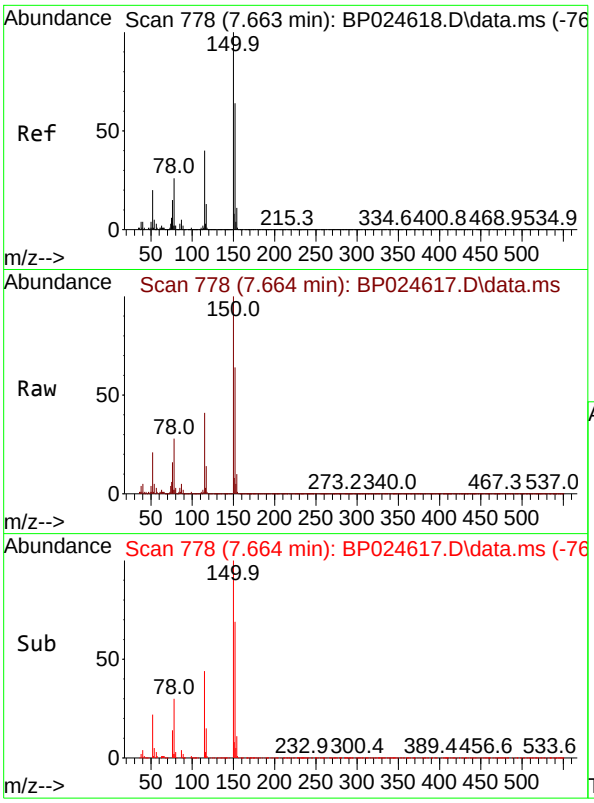
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024617.D
Acq On : 13 May 2025 12:43
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Quant Time: May 13 16:05:17 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration



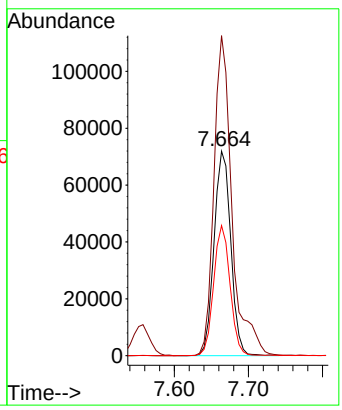


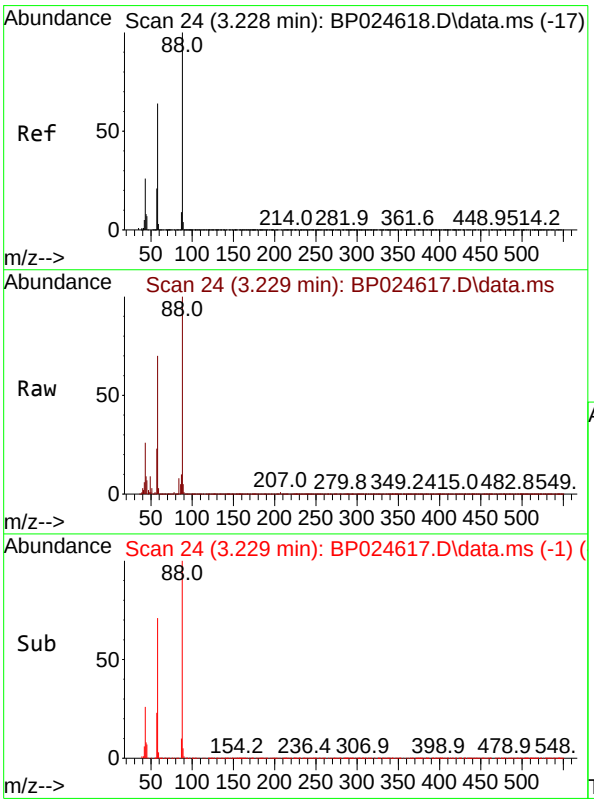
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.664 min Scan# 7
Delta R.T. 0.001 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 112650

Ion	Ratio	Lower	Upper
152	100		
150	156.4	125.9	188.9
115	63.6	50.1	75.1

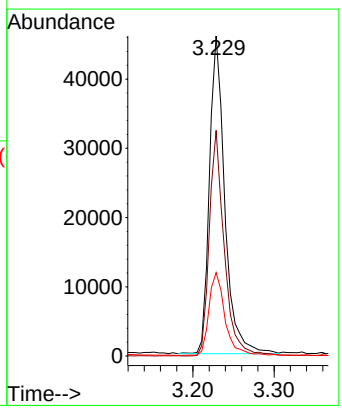


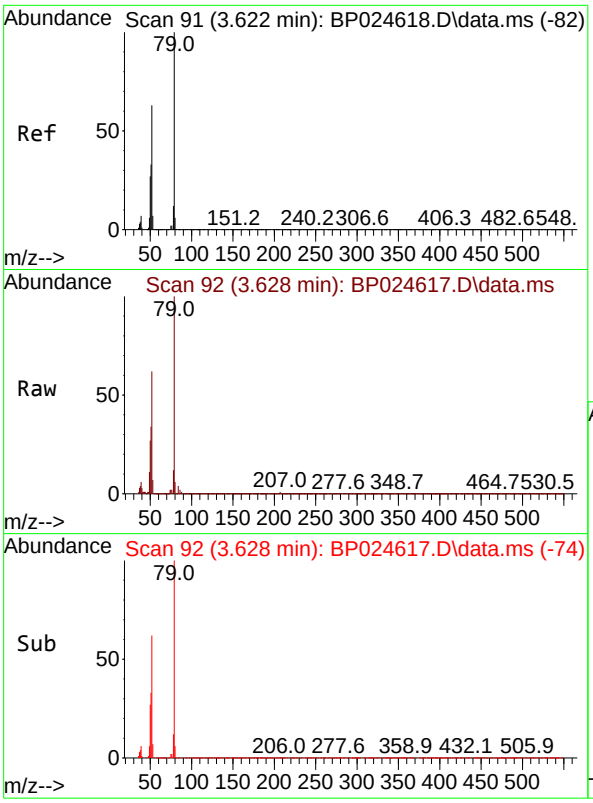


#2
1,4-Dioxane
Concen: 19.481 ng
RT: 3.229 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 88 Resp: 60251

Ion	Ratio	Lower	Upper
88	100		
58	69.2	54.0	81.0
43	27.3	21.4	32.0



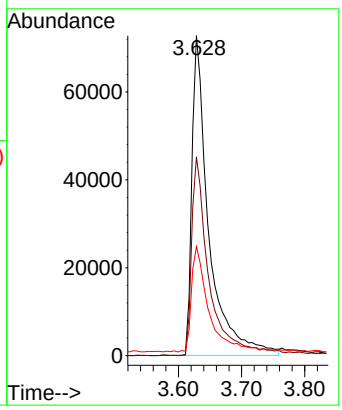


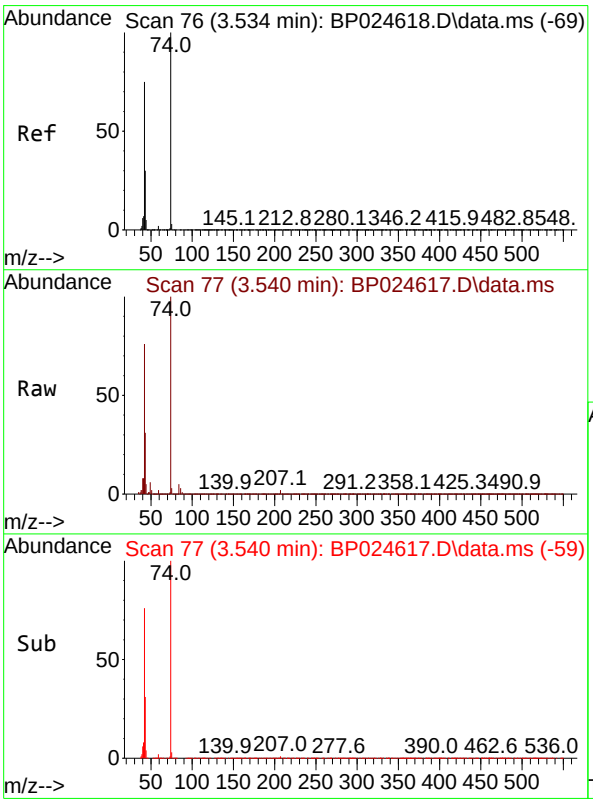
#3
Pyridine
Concen: 19.752 ng
RT: 3.628 min Scan# 9
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 135451

Ion	Ratio	Lower	Upper
79	100		
52	62.1	50.2	75.2
51	34.1	26.8	40.2

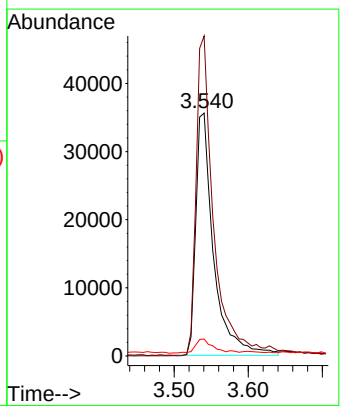


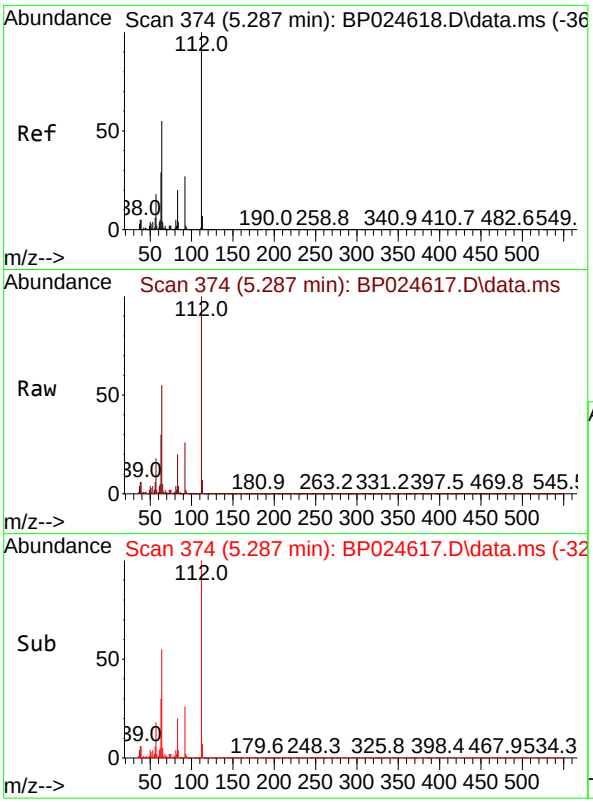


#4
n-Nitrosodimethylamine
Concen: 19.595 ng
RT: 3.540 min Scan# 77
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 42 Resp: 59324

Ion	Ratio	Lower	Upper
42	100		
74	131.7	106.2	159.2
44	7.0	5.4	8.2



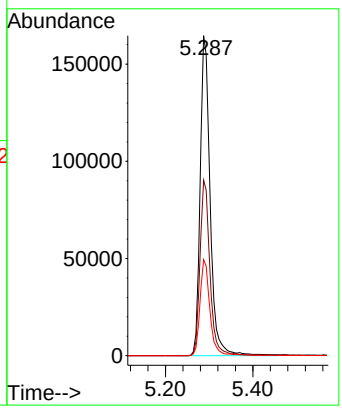


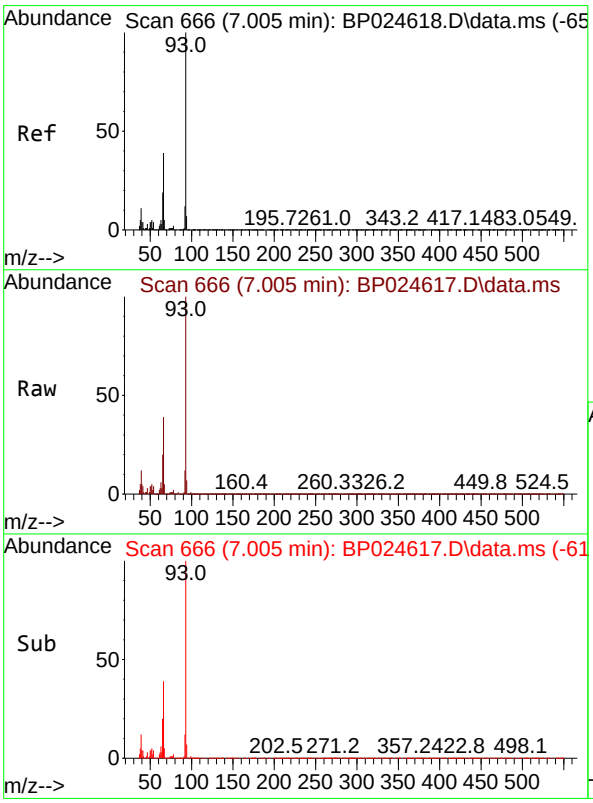
#5
2-Fluorophenol
Concen: 39.752 ng
RT: 5.287 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 261821

Ion	Ratio	Lower	Upper
112	100		
64	54.8	44.1	66.1
63	30.0	23.5	35.3

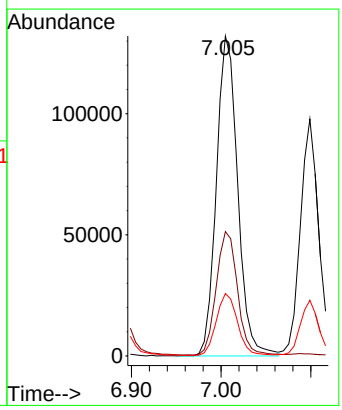


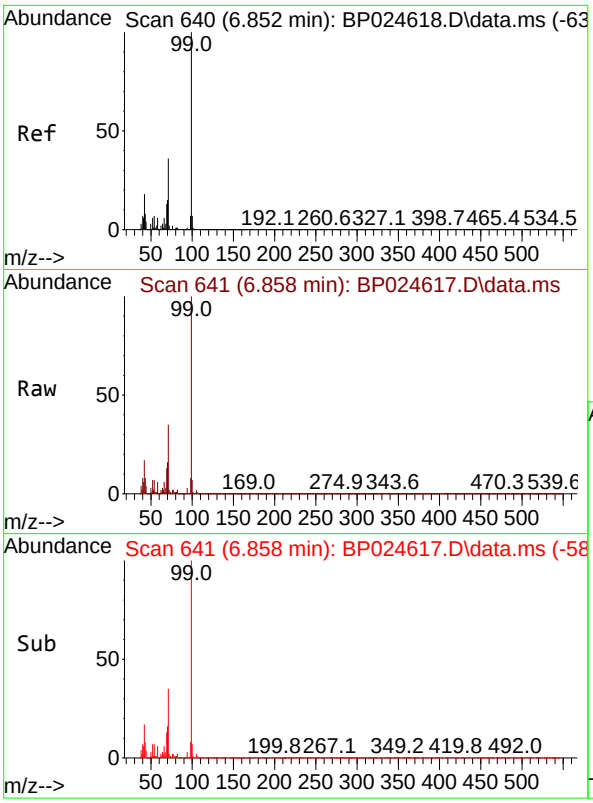


#6
Aniline
Concen: 20.054 ng
RT: 7.005 min Scan# 666
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 93 Resp: 217646

Ion	Ratio	Lower	Upper
93	100		
66	38.8	31.0	46.6
65	19.5	15.5	23.3



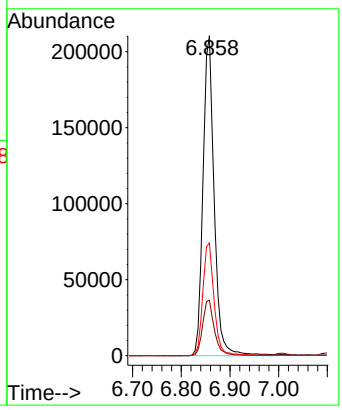


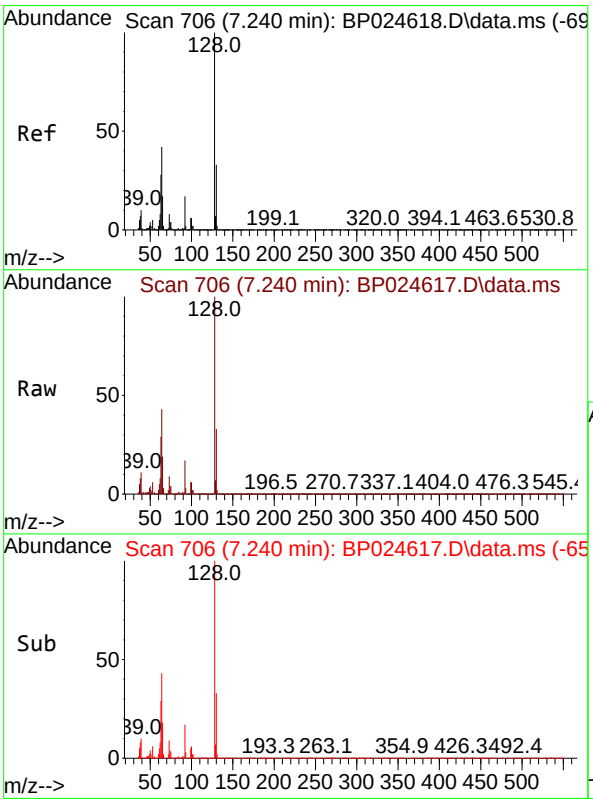
#7
Phenol-d6
Concen: 39.830 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 99 Resp: 334811

Ion	Ratio	Lower	Upper
99	100		
42	17.4	14.4	21.6
71	35.3	29.2	43.8

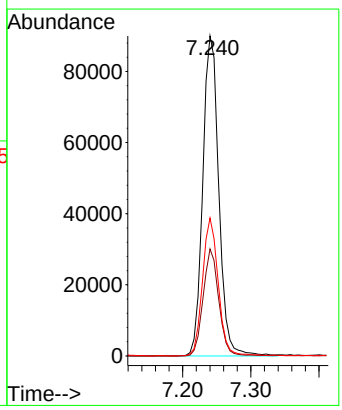


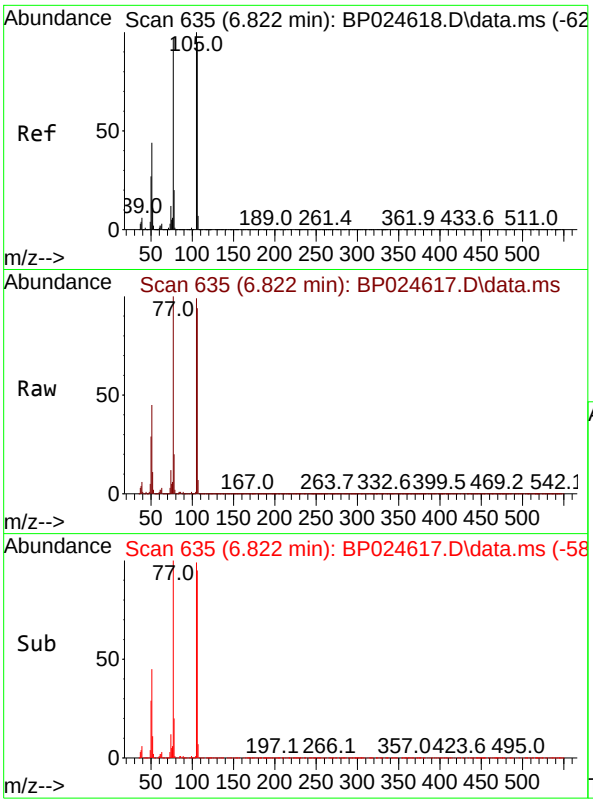


#8
2-Chlorophenol
Concen: 19.758 ng
RT: 7.240 min Scan# 706
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:128 Resp: 147726

Ion	Ratio	Lower	Upper
128	100		
130	33.5	13.0	53.0
64	43.1	22.3	62.3



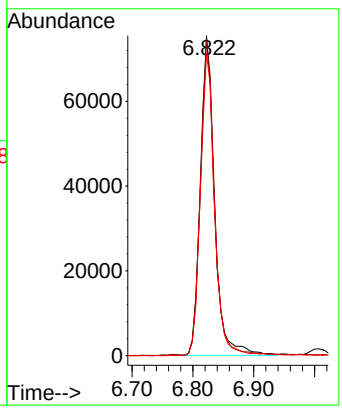


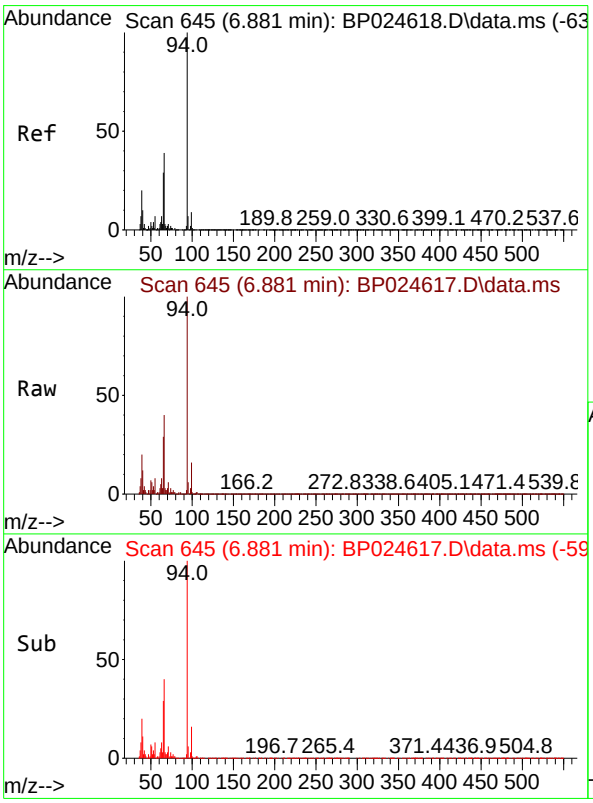
#9
Benzaldehyde
Concen: 22.255 ng
RT: 6.822 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 120893

Ion	Ratio	Lower	Upper
77	100		
105	98.5	83.3	123.3
106	94.4	78.0	118.0

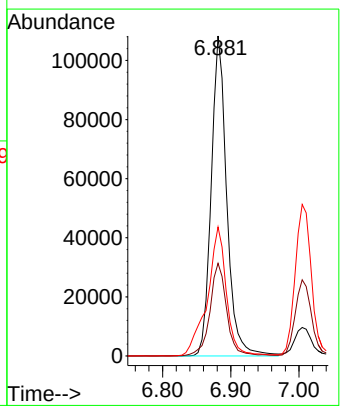


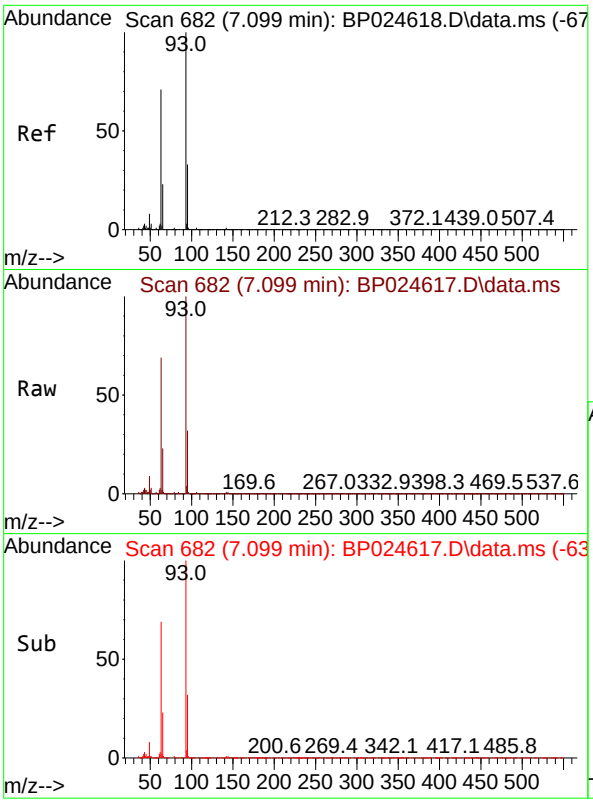


#10
Phenol
Concen: 19.819 ng
RT: 6.881 min Scan# 645
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 94 Resp: 171949

Ion	Ratio	Lower	Upper
94	100		
65	28.9	8.7	48.7
66	40.3	19.4	59.4



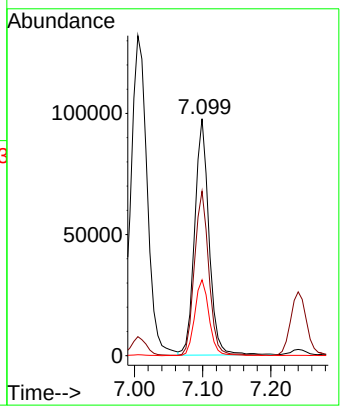


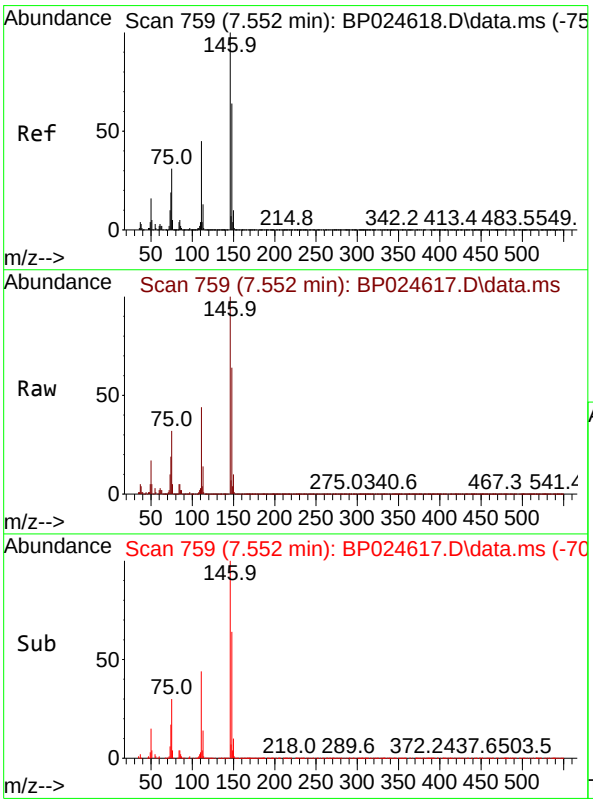
#11
bis(2-Chloroethyl)ether
Concen: 19.862 ng
RT: 7.099 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 93 Resp: 141599

Ion	Ratio	Lower	Upper
93	100		
63	69.4	50.6	90.6
95	32.0	12.9	52.9

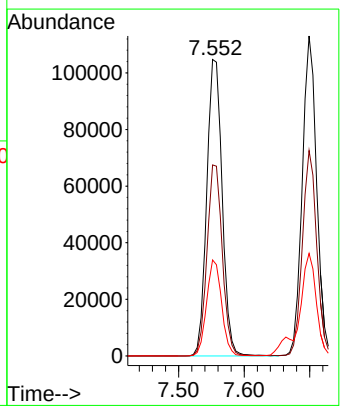


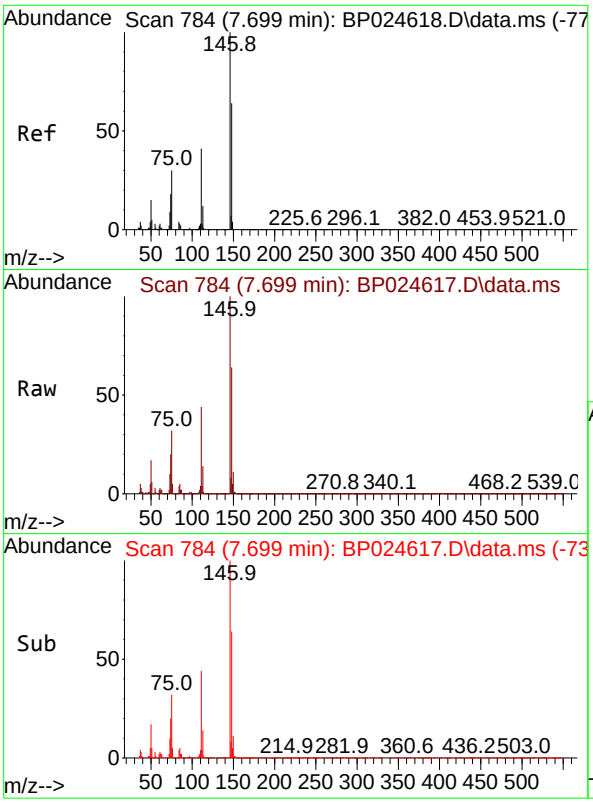


#12
1,3-Dichlorobenzene
Concen: 19.910 ng
RT: 7.552 min Scan# 759
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:146 Resp: 171270

Ion	Ratio	Lower	Upper
146	100		
148	64.4	51.4	77.2
75	32.4	25.2	37.8



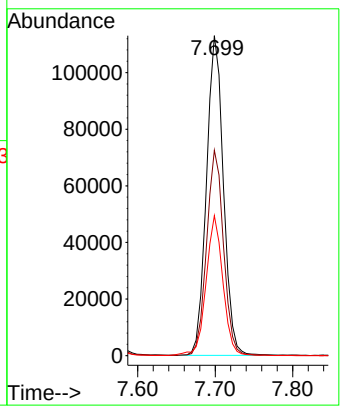


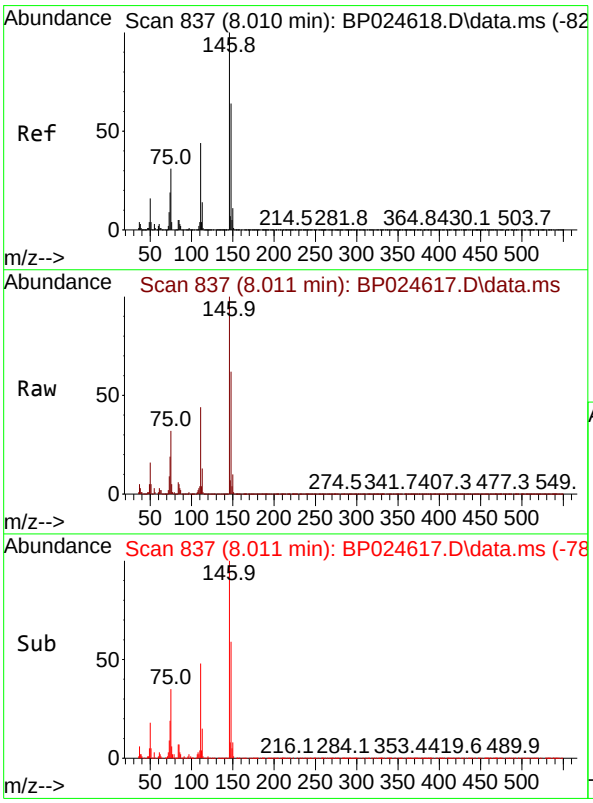
#13
1,4-Dichlorobenzene
Concen: 19.852 ng
RT: 7.699 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:146 Resp: 171756

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.6
111	43.7	33.0	49.6

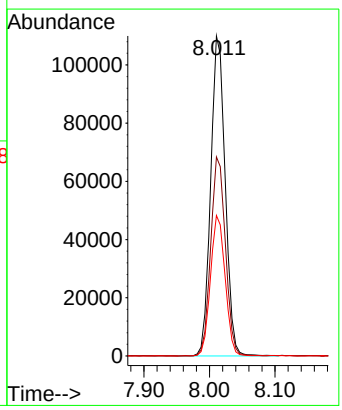


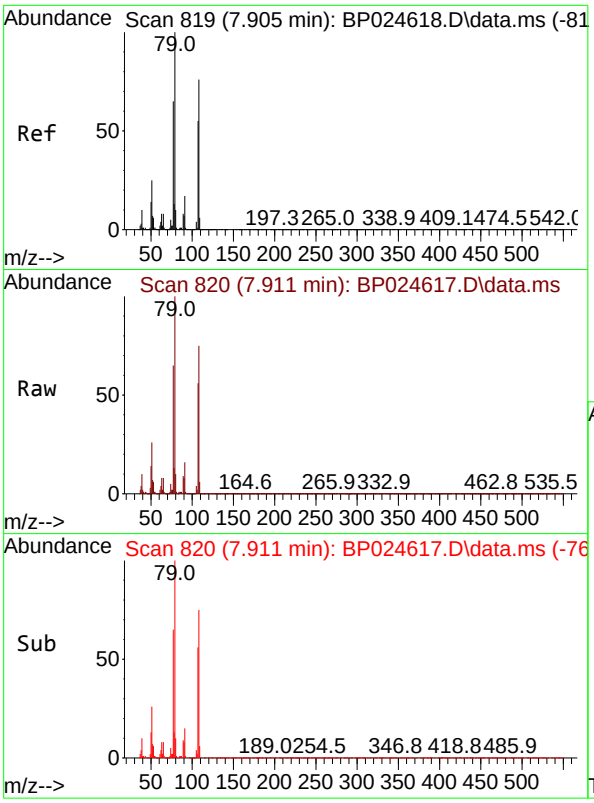


#14
1,2-Dichlorobenzene
Concen: 20.022 ng
RT: 8.011 min Scan# 837
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:146 Resp: 168795

Ion	Ratio	Lower	Upper
146	100		
148	62.2	51.0	76.4
111	43.9	35.2	52.8



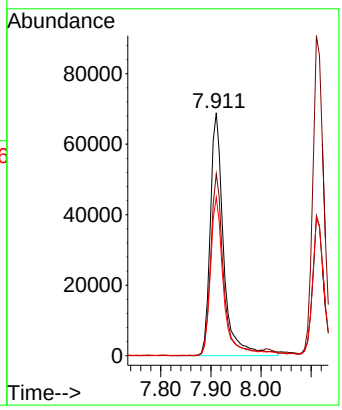


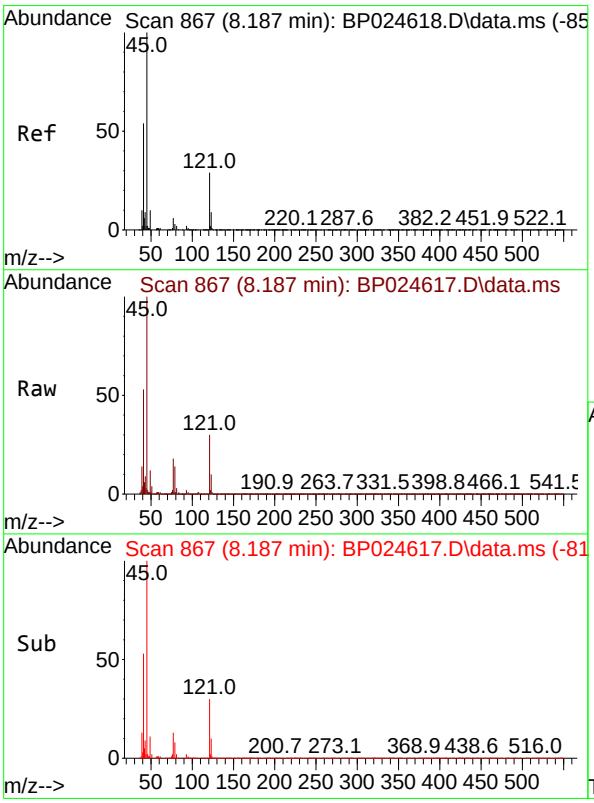
#15
Benzyl Alcohol
Concen: 19.893 ng
RT: 7.911 min Scan# 8
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 127076

Ion	Ratio	Lower	Upper
79	100		
108	74.8	60.8	91.2
77	65.1	51.9	77.9

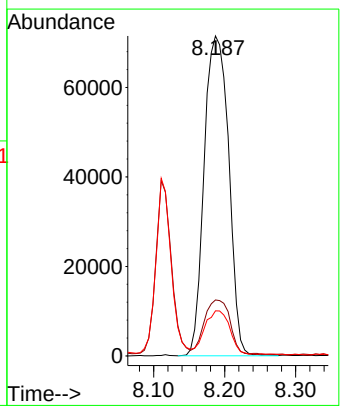


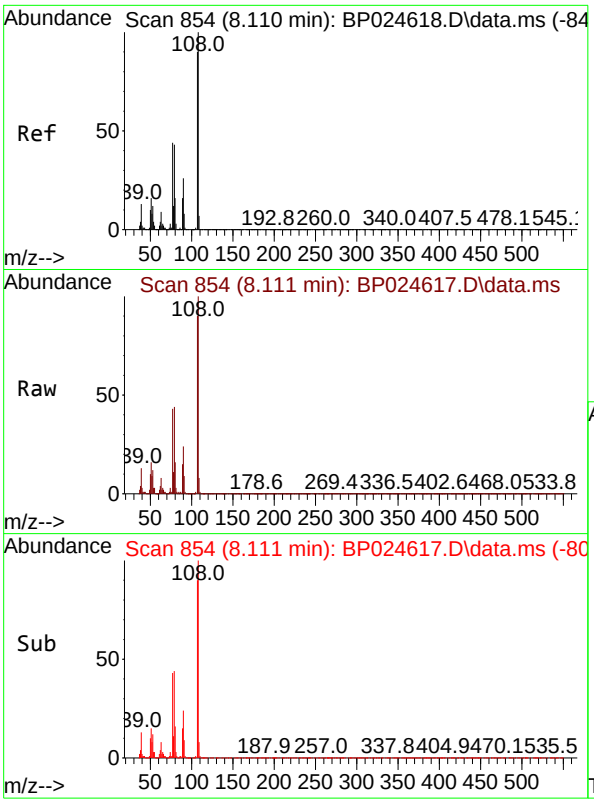


#16
2,2'-oxybis(1-Chloropropane)
Concen: 20.061 ng
RT: 8.187 min Scan# 867
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 45 Resp: 171274

Ion	Ratio	Lower	Upper
45	100		
77	17.5	0.0	37.7
79	14.1	0.0	34.0



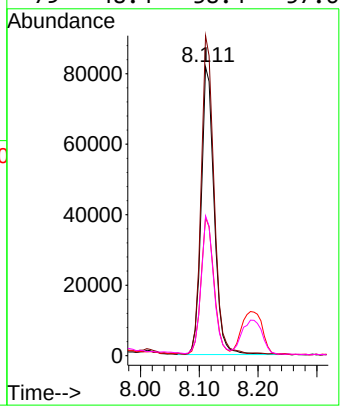


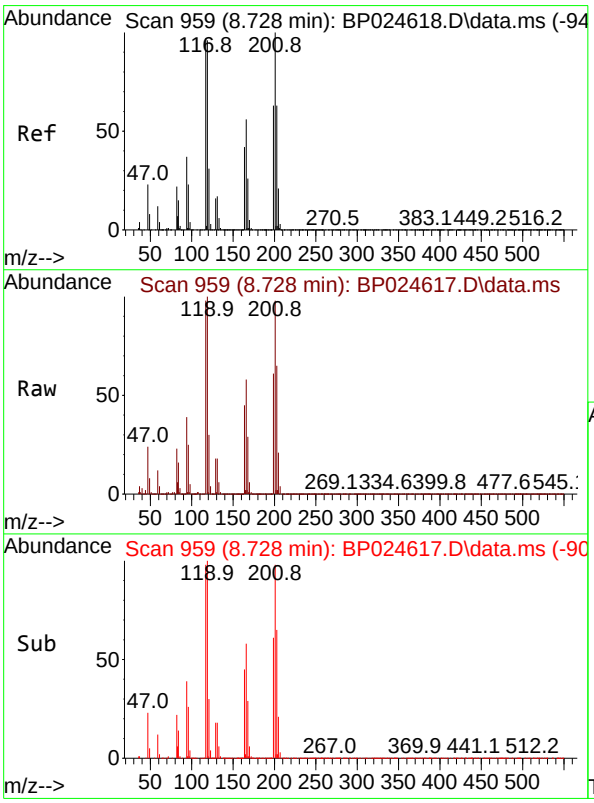
#17
2-Methylphenol
Concen: 20.008 ng
RT: 8.111 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:107 Resp: 124506

Ion	Ratio	Lower	Upper
107	100		
108	110.8	88.9	133.3
77	47.9	39.0	58.6
79	48.4	38.4	57.6

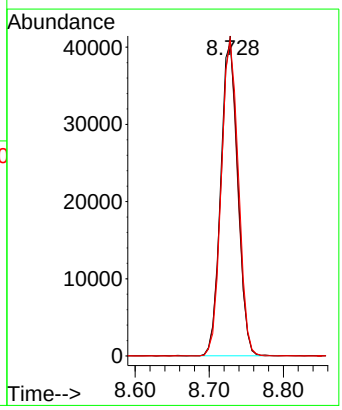


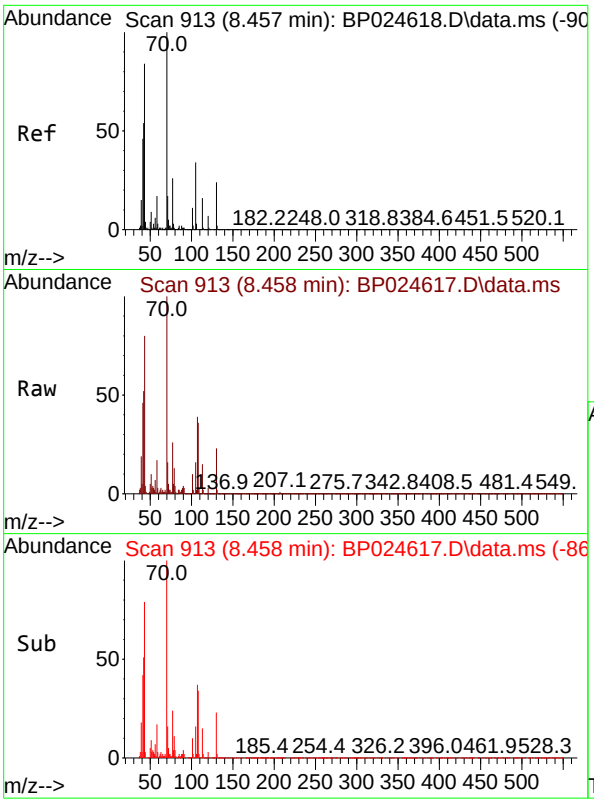


#18
Hexachloroethane
Concen: 19.764 ng
RT: 8.728 min Scan# 959
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:117 Resp: 65527

Ion	Ratio	Lower	Upper
117	100		
119	102.4	79.4	119.0
201	100.8	82.7	124.1



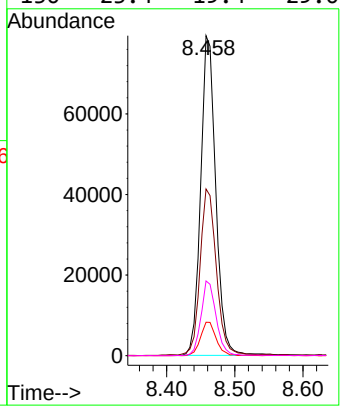


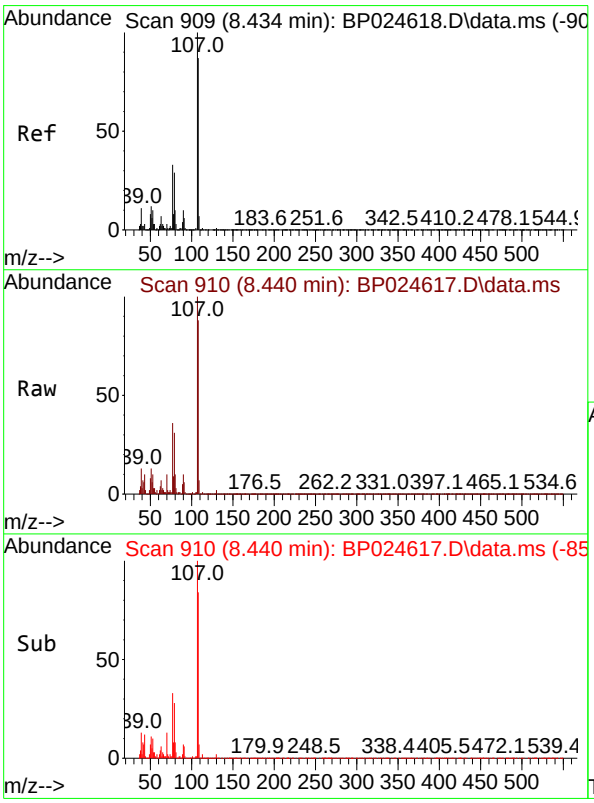
#19
n-Nitroso-di-n-propylamine
Concen: 21.048 ng
RT: 8.458 min Scan# 91
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 70 Resp: 122386

Ion	Ratio	Lower	Upper
70	100		
42	52.1	43.0	64.6
101	10.5	8.7	13.1
130	23.4	19.4	29.0

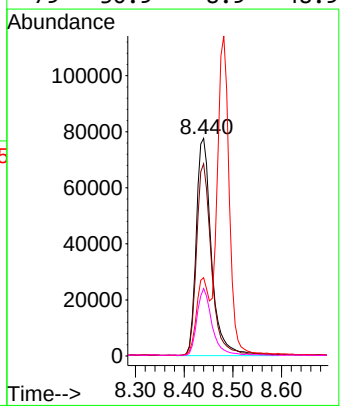


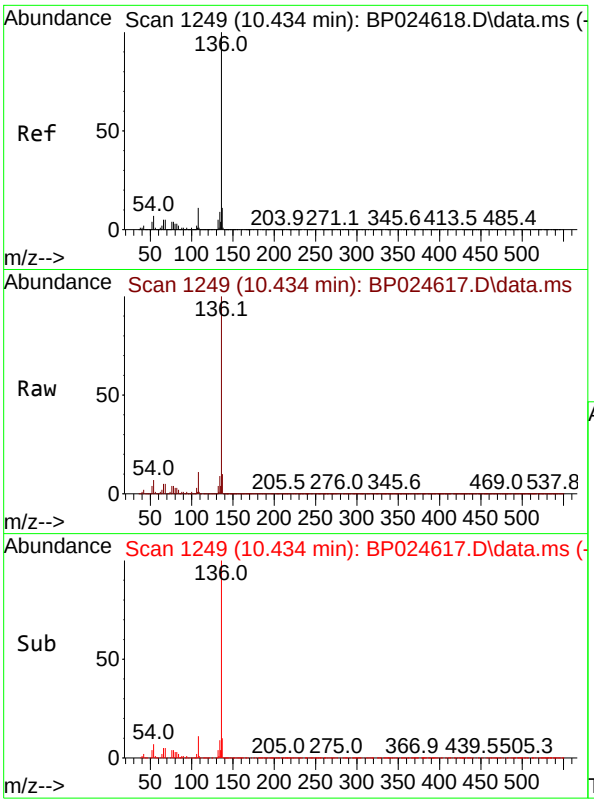


#20
3+4-Methylphenols
Concen: 19.997 ng
RT: 8.440 min Scan# 910
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:107 Resp: 169264

Ion	Ratio	Lower	Upper
107	100		
108	88.3	66.7	106.7
77	35.9	13.1	53.1
79	30.9	8.9	48.9



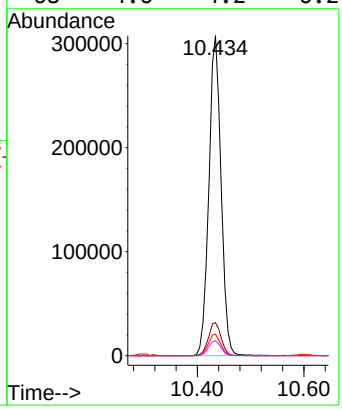


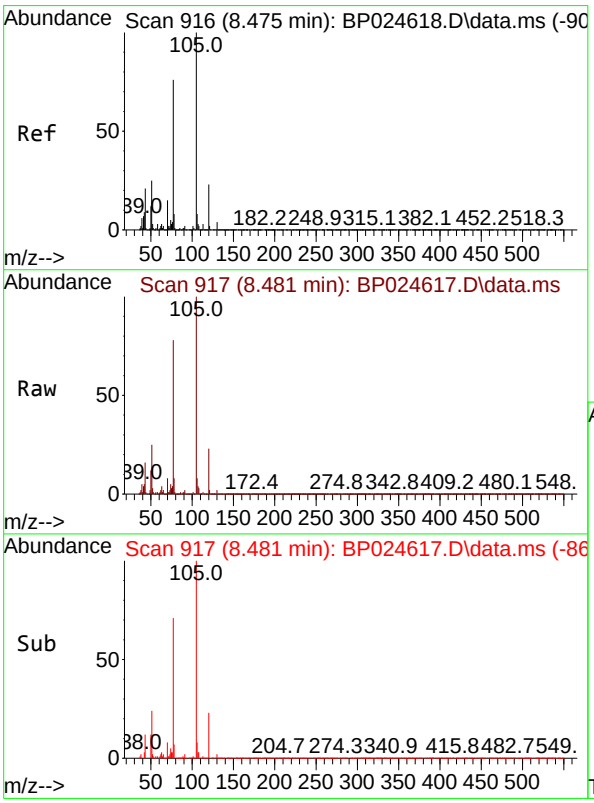
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.434 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:136 Resp: 488721

Ion	Ratio	Lower	Upper
136	100		
137	10.3	8.8	13.2
54	6.7	5.5	8.3
68	4.6	4.2	6.2

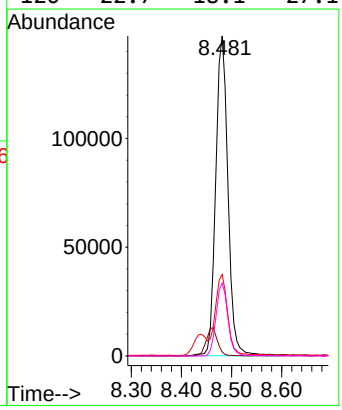


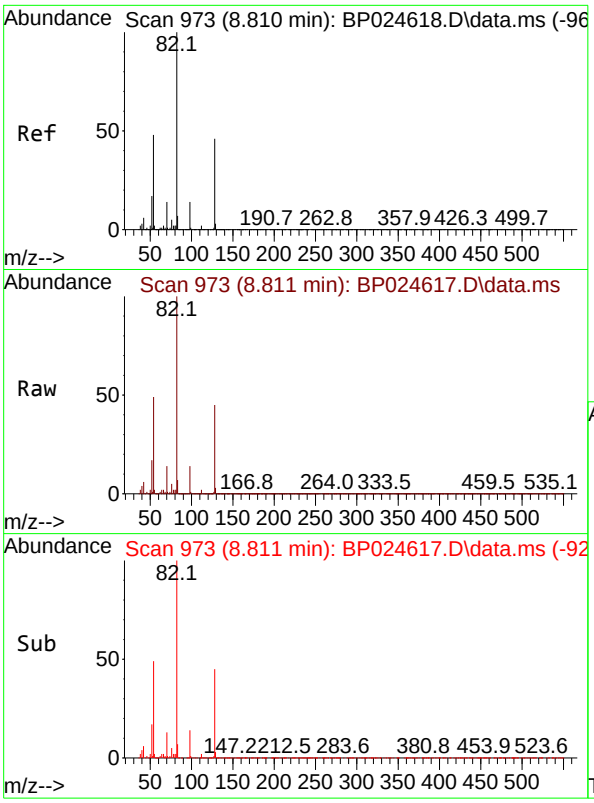


#22
Acetophenone
Concen: 20.453 ng
RT: 8.481 min Scan# 917
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:105 Resp: 249692

Ion	Ratio	Lower	Upper
105	100		
71	1.2	2.0	3.0#
51	25.5	20.4	30.6
120	22.7	18.1	27.1



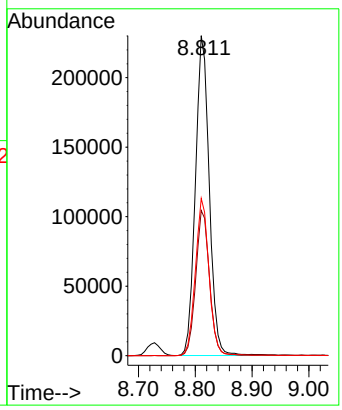


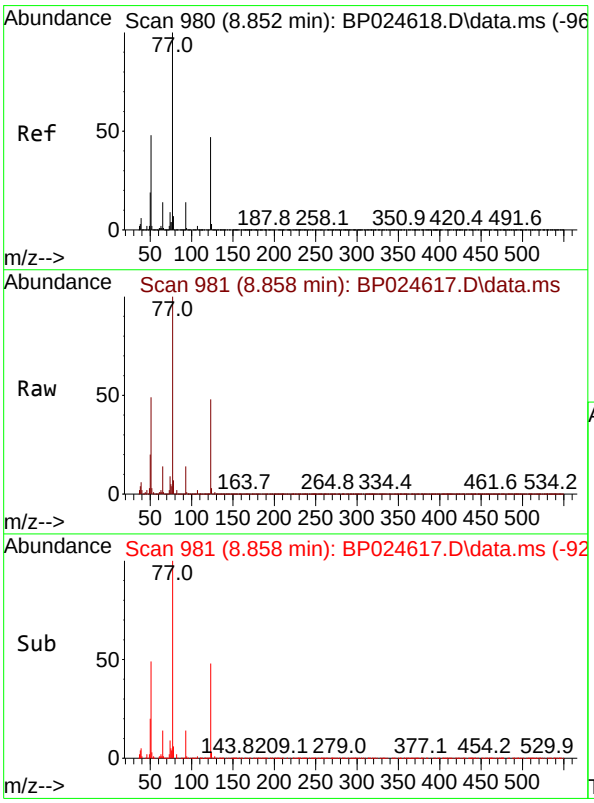
#23
Nitrobenzene-d5
Concen: 40.500 ng
RT: 8.811 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 391739

Ion	Ratio	Lower	Upper
82	100		
128	45.4	37.0	55.4
54	49.1	38.7	58.1

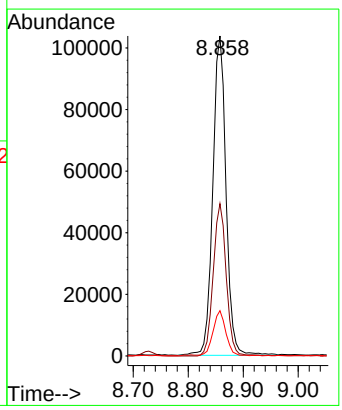


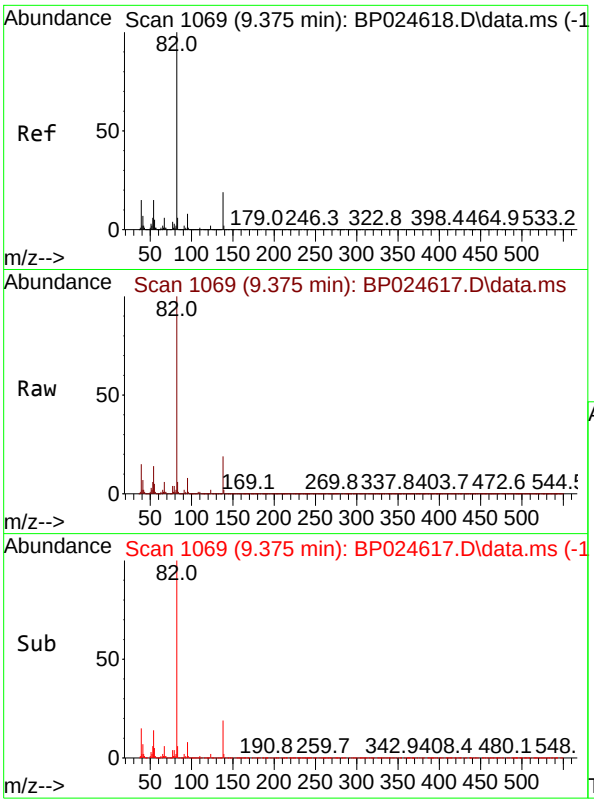


#24
Nitrobenzene
Concen: 20.405 ng
RT: 8.858 min Scan# 981
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 77 Resp: 173686

Ion	Ratio	Lower	Upper
77	100		
123	47.6	37.4	56.0
65	14.1	11.3	16.9



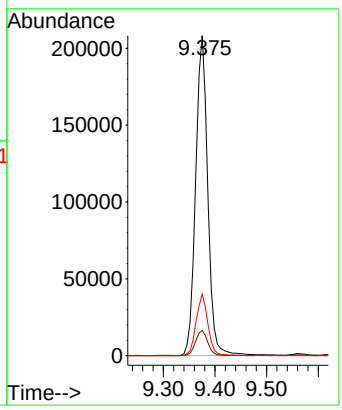


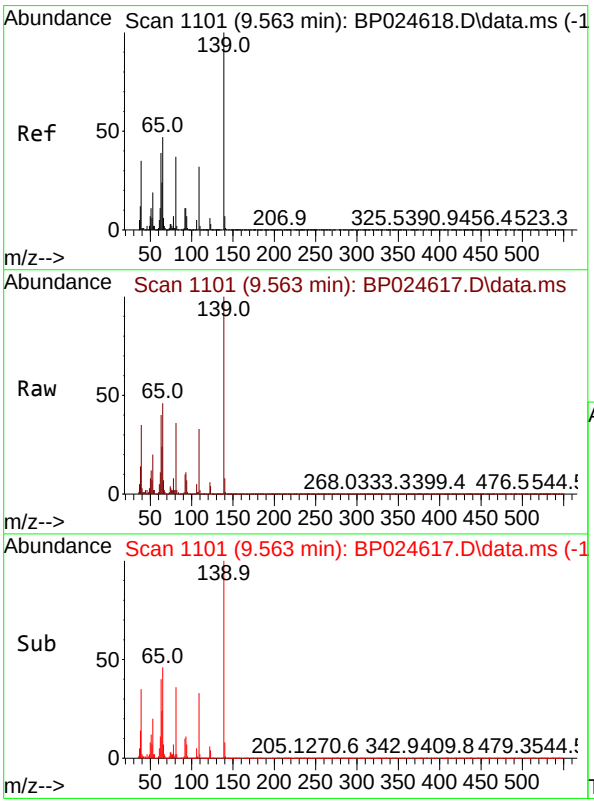
#25
Isophorone
Concen: 20.246 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 82 Resp: 339697

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.3	9.5
138	19.3	15.3	22.9

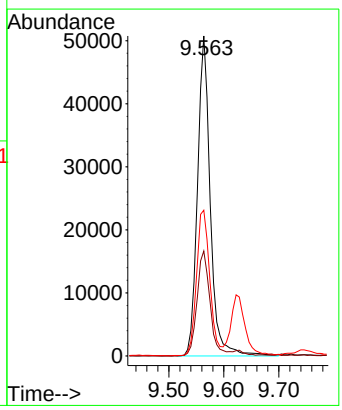


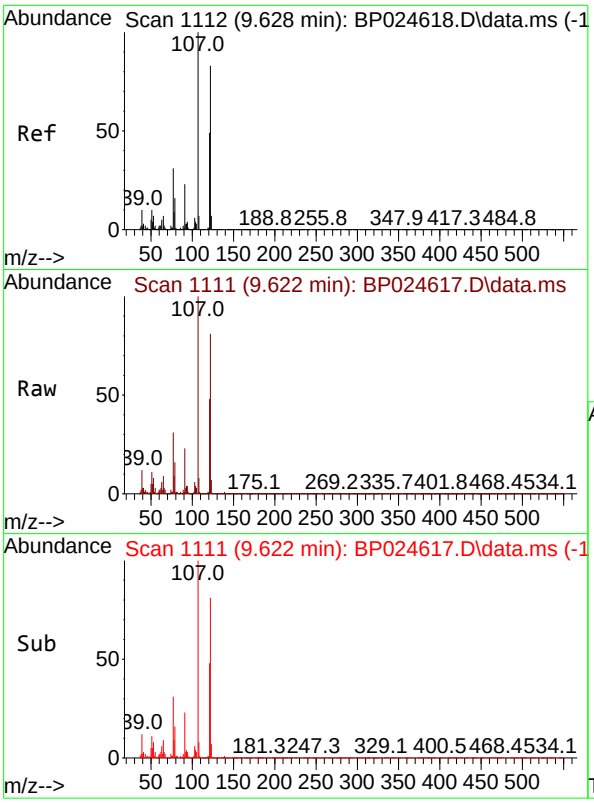


#26
2-Nitrophenol
Concen: 19.726 ng
RT: 9.563 min Scan# 1101
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:139 Resp: 82278

Ion	Ratio	Lower	Upper
139	100		
109	32.8	25.9	38.9
65	45.6	37.9	56.9



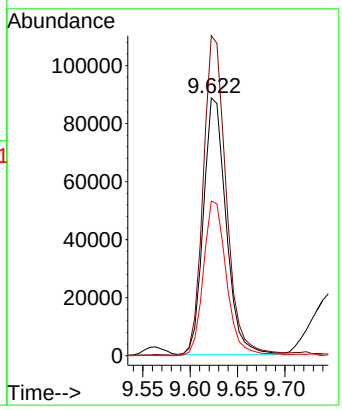


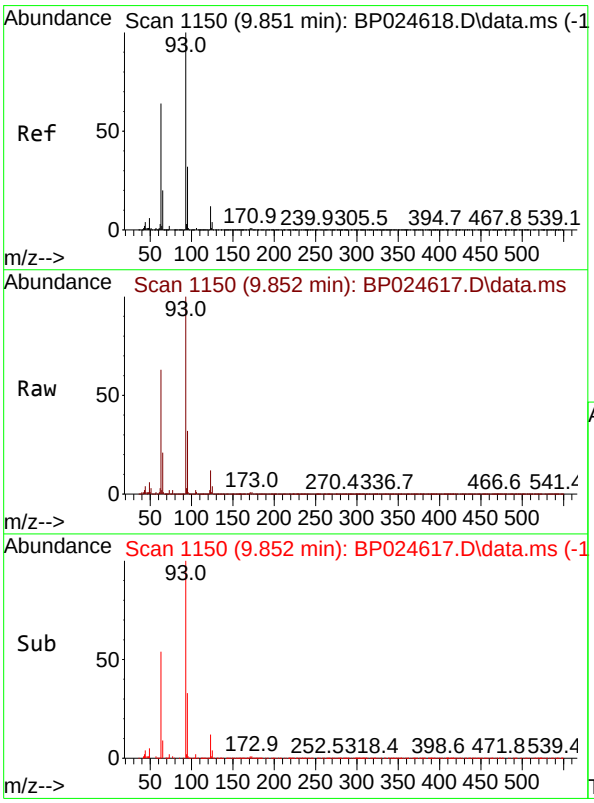
#27
2,4-Dimethylphenol
Concen: 19.965 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:122 Resp: 146819

Ion	Ratio	Lower	Upper
122	100		
107	124.1	96.2	144.2
121	60.0	47.6	71.4

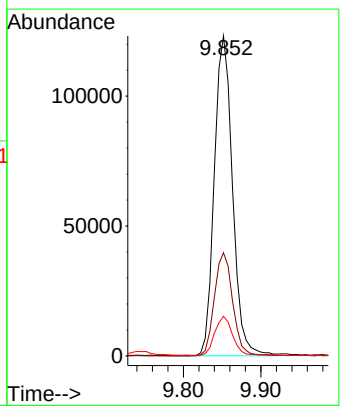


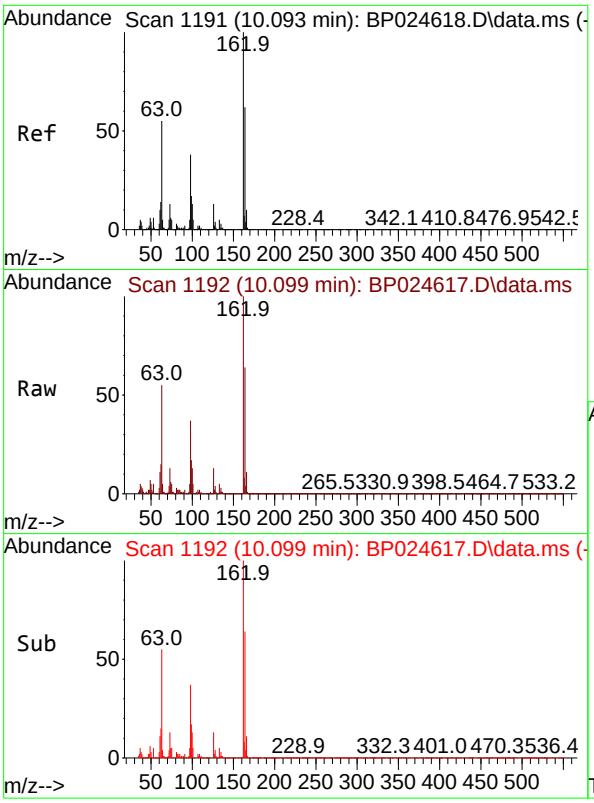


#28
bis(2-Chloroethoxy)methane
Concen: 20.039 ng
RT: 9.852 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 93 Resp: 200872

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.5	38.3
123	12.4	9.7	14.5



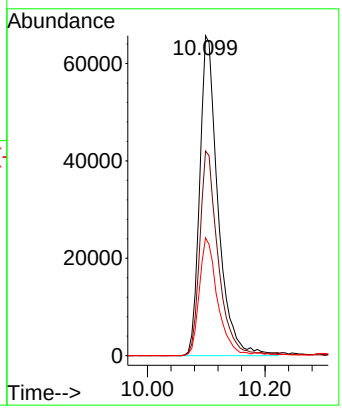


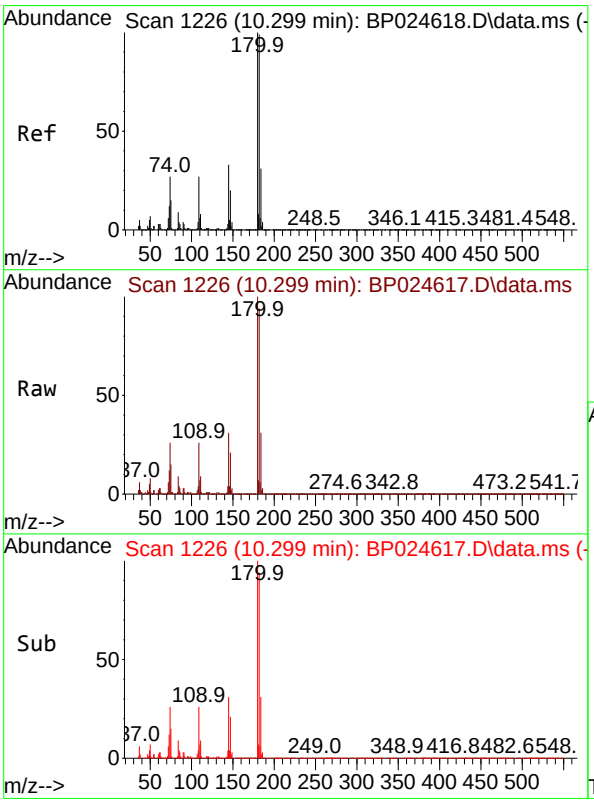
#29
2,4-Dichlorophenol
Concen: 19.896 ng
RT: 10.099 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 141785

Ion	Ratio	Lower	Upper
162	100		
164	64.0	42.3	82.3
98	36.8	18.4	58.4

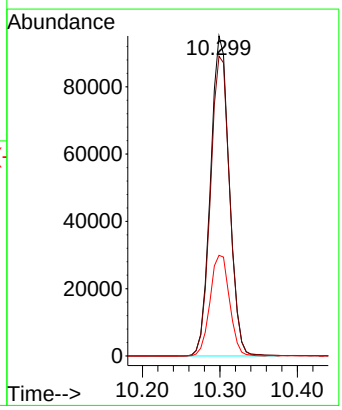


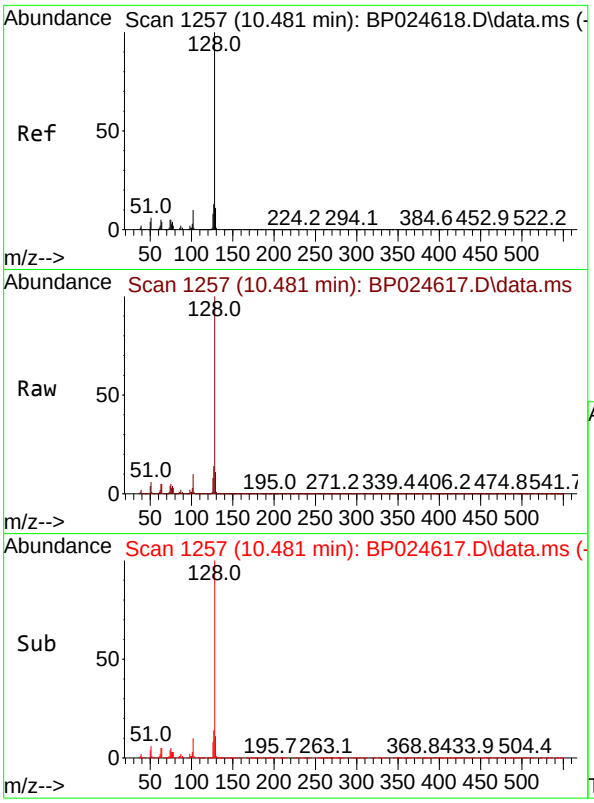


#30
1,2,4-Trichlorobenzene
Concen: 19.924 ng
RT: 10.299 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:180 Resp: 159998

Ion	Ratio	Lower	Upper
180	100		
182	93.7	79.0	118.4
145	31.5	26.6	39.8



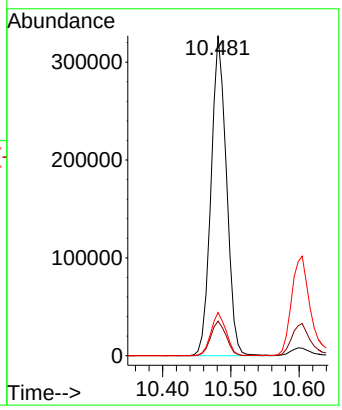


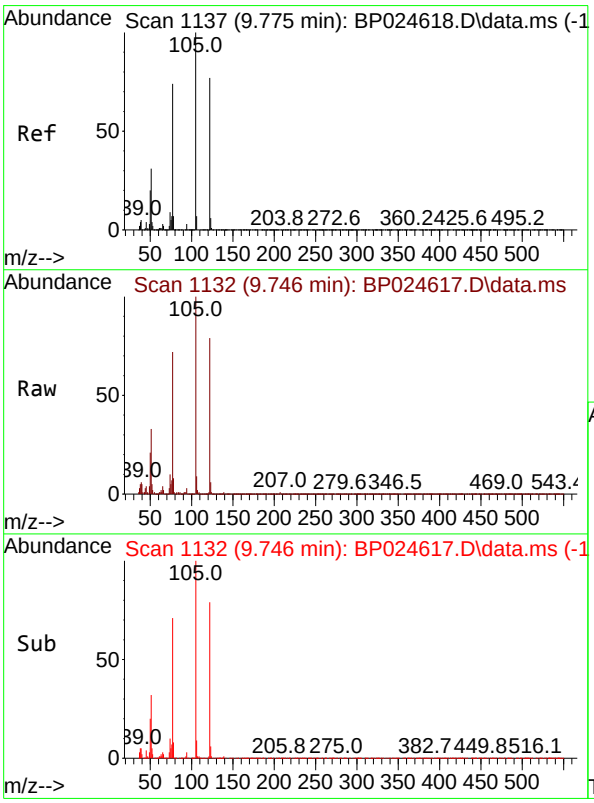
#31
Naphthalene
Concen: 20.251 ng
RT: 10.481 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:128 Resp: 512888

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	13.5	10.7	16.1

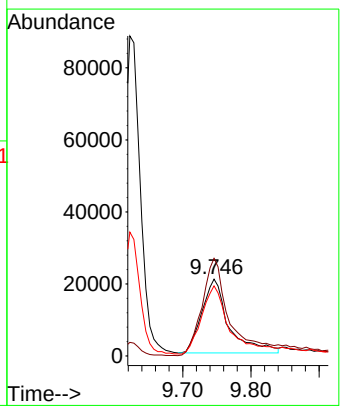


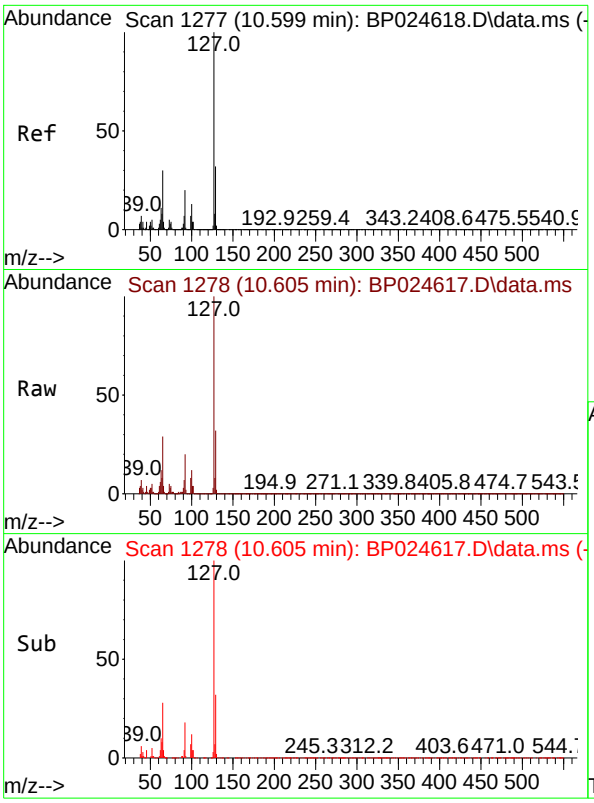


#32
Benzoic acid
Concen: 16.180 ng
RT: 9.746 min Scan# 1132
Delta R.T. -0.029 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:122 Resp: 56285

Ion	Ratio	Lower	Upper
122	100		
105	127.1	106.9	146.9
77	91.3	75.1	115.1



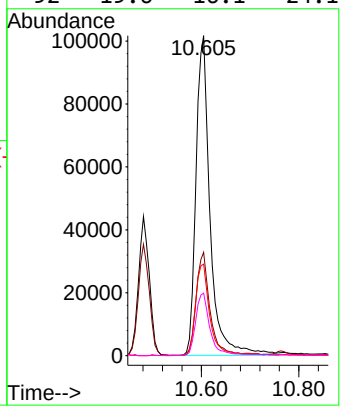


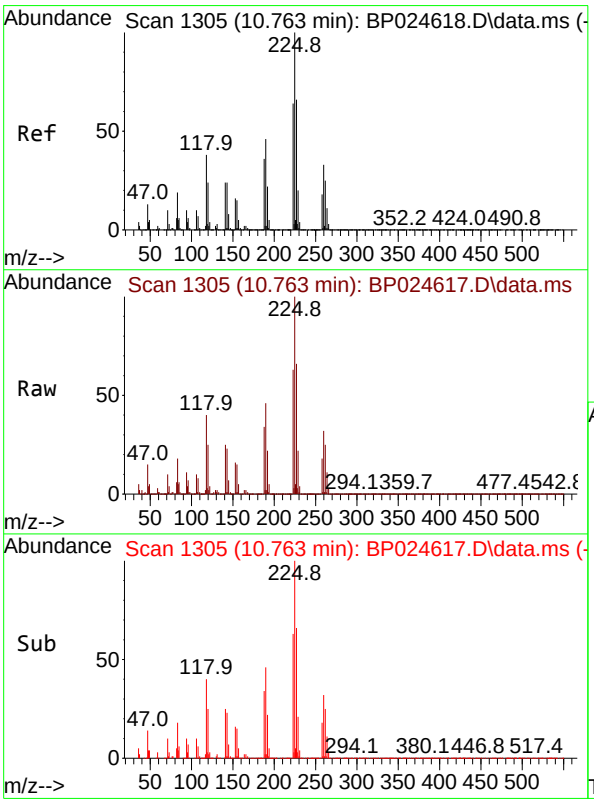
#33
4-Chloroaniline
Concen: 20.102 ng
RT: 10.605 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:127 Resp: 205433

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.8	38.6
65	28.6	23.9	35.9
92	19.6	16.1	24.1

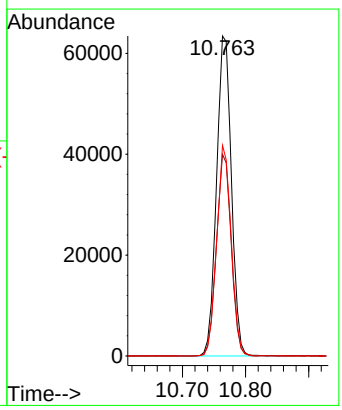


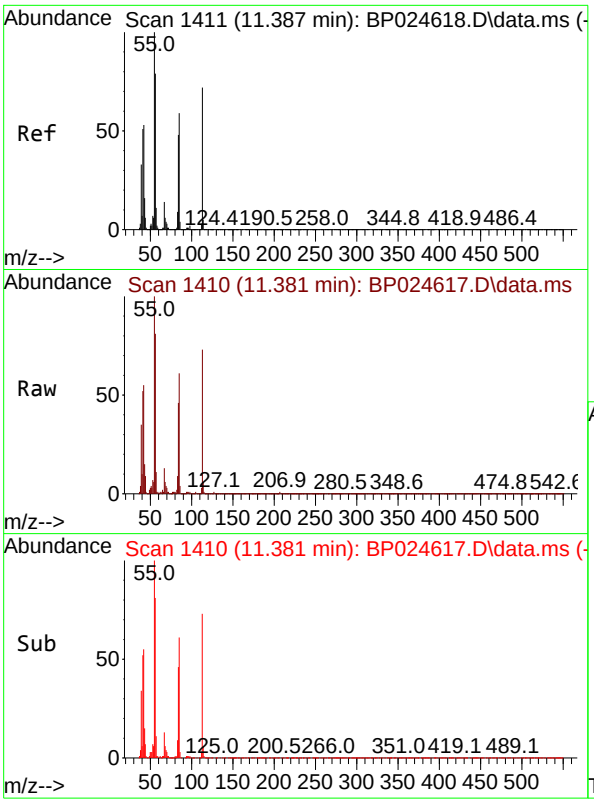


#34
Hexachlorobutadiene
Concen: 19.869 ng
RT: 10.763 min Scan# 1305
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:225 Resp: 103364

Ion	Ratio	Lower	Upper
225	100		
223	63.0	51.0	76.6
227	65.8	53.1	79.7



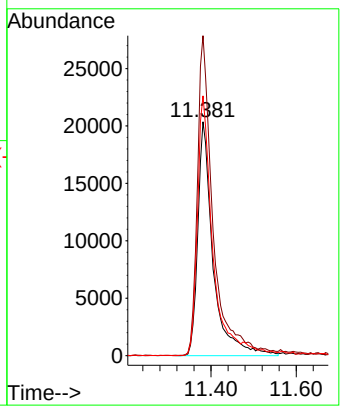


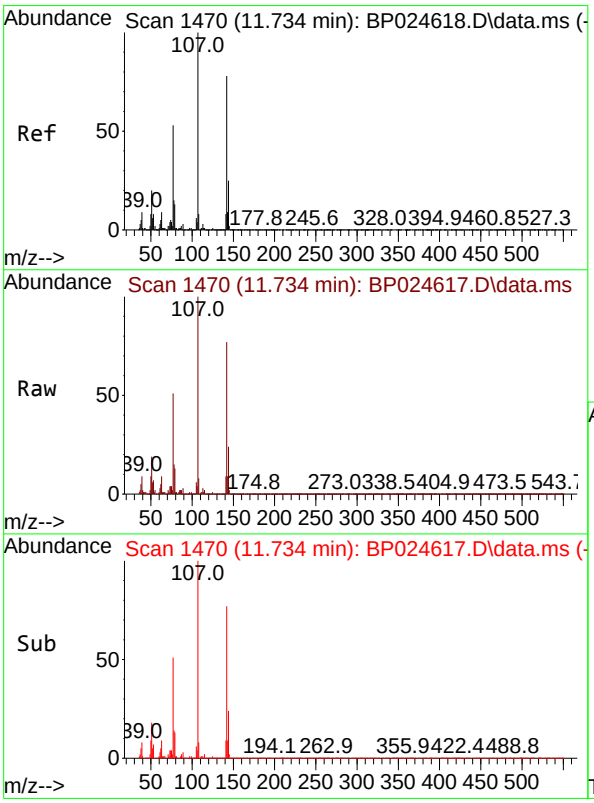
#35
Caprolactam
Concen: 19.683 ng
RT: 11.381 min Scan# 14
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:113 Resp: 50721

Ion	Ratio	Lower	Upper
113	100		
55	136.8	119.0	159.0
56	111.1	90.3	130.3

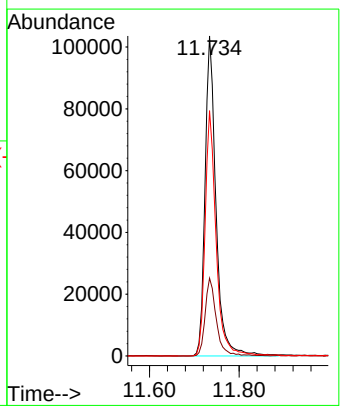


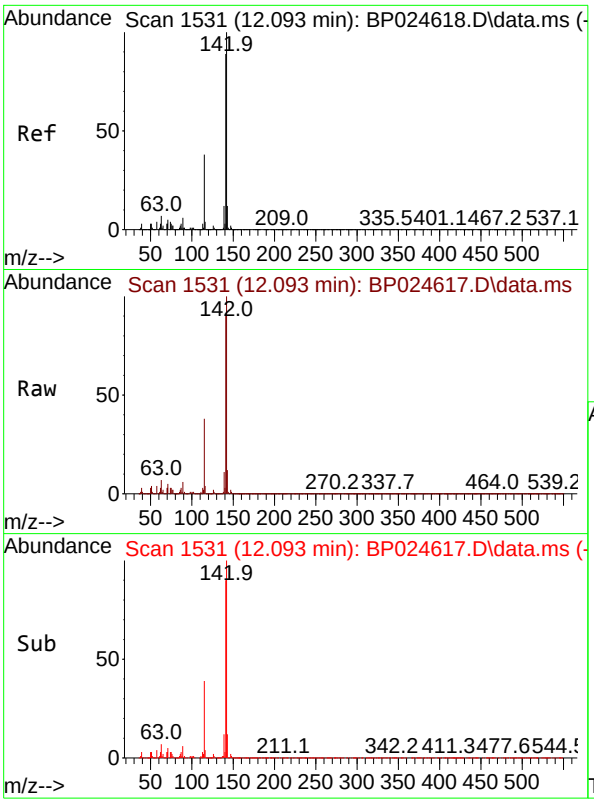


#36
4-Chloro-3-methylphenol
Concen: 20.118 ng
RT: 11.734 min Scan# 1470
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:107 Resp: 174840

Ion	Ratio	Lower	Upper
107	100		
144	24.3	20.1	30.1
142	76.6	62.1	93.1



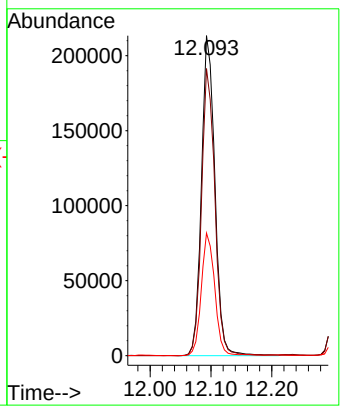


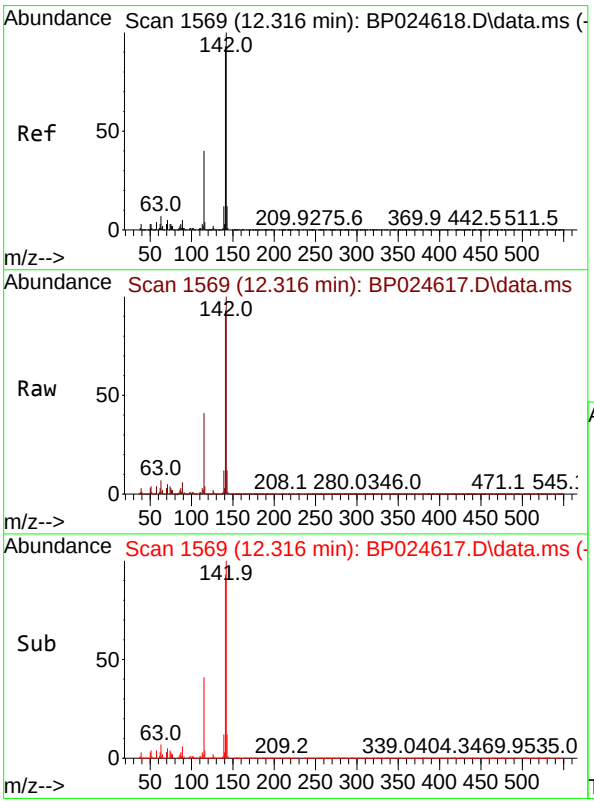
#37
2-Methylnaphthalene
Concen: 19.968 ng
RT: 12.093 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:142 Resp: 327447

Ion	Ratio	Lower	Upper
142	100		
141	89.7	71.2	106.8
115	38.3	30.6	46.0

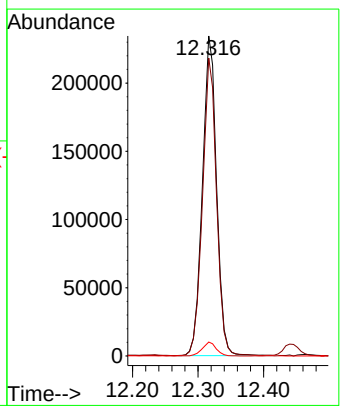


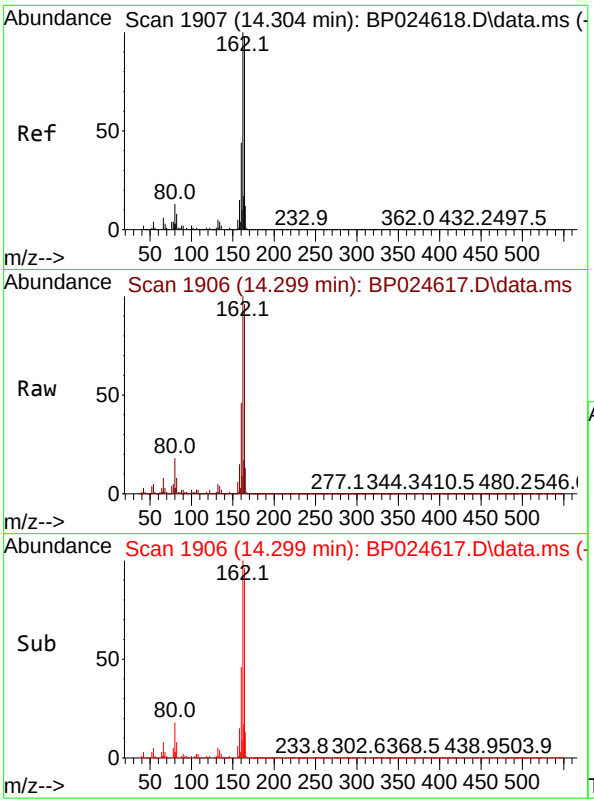


#38
1-Methylnaphthalene
Concen: 20.066 ng
RT: 12.316 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:142 Resp: 352091

Ion	Ratio	Lower	Upper
142	100		
141	93.1	74.7	112.1
116	4.4	3.4	5.2



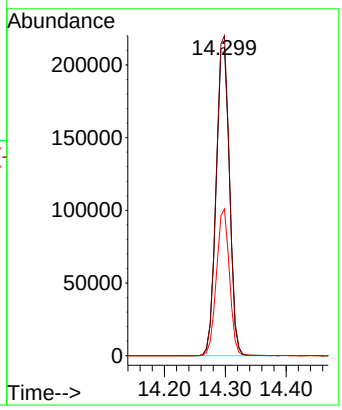


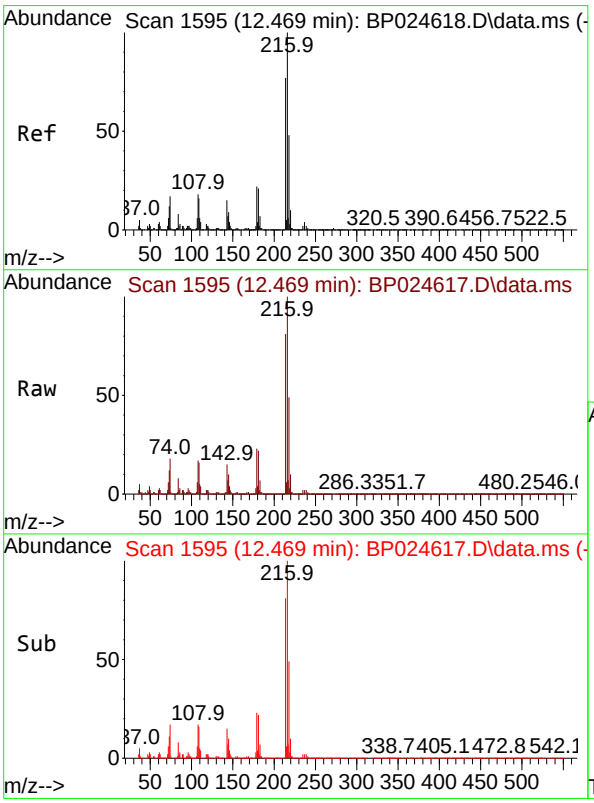
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.299 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:164 Resp: 323928

Ion	Ratio	Lower	Upper
164	100		
162	103.8	81.8	122.6
160	47.6	36.3	54.5

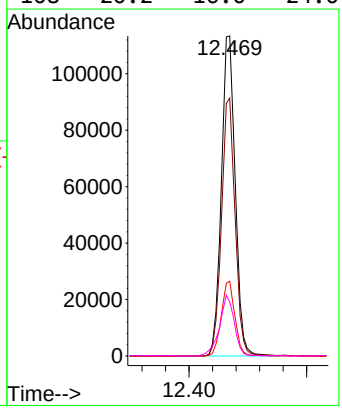


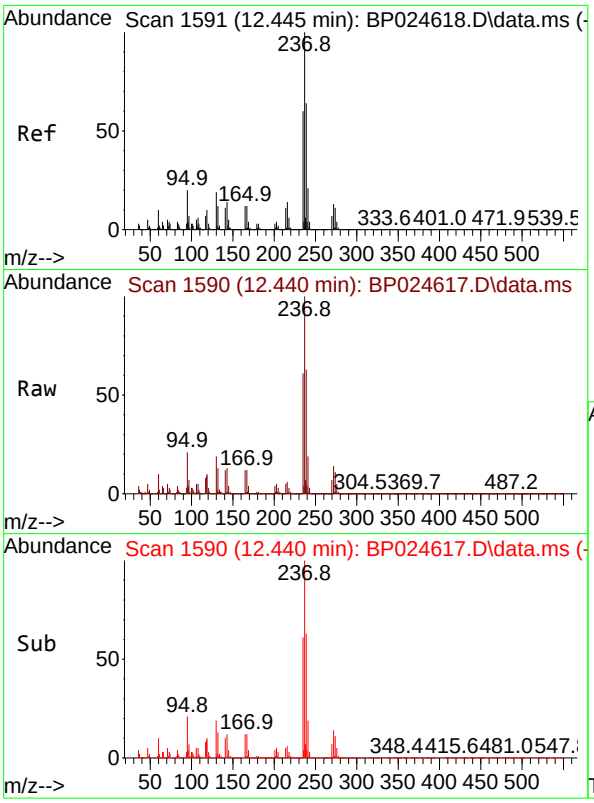


#40
1,2,4,5-Tetrachlorobenzene
Concen: 19.772 ng
RT: 12.469 min Scan# 1595
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:216 Resp: 185982

Ion	Ratio	Lower	Upper
216	100		
214	79.1	62.3	93.5
179	22.9	17.7	26.5
108	20.2	16.0	24.0



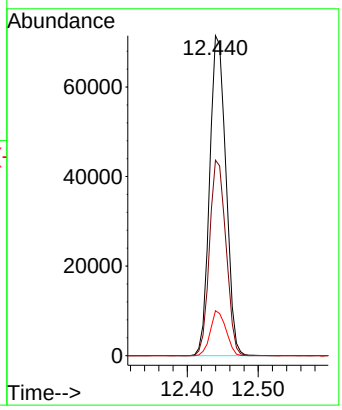


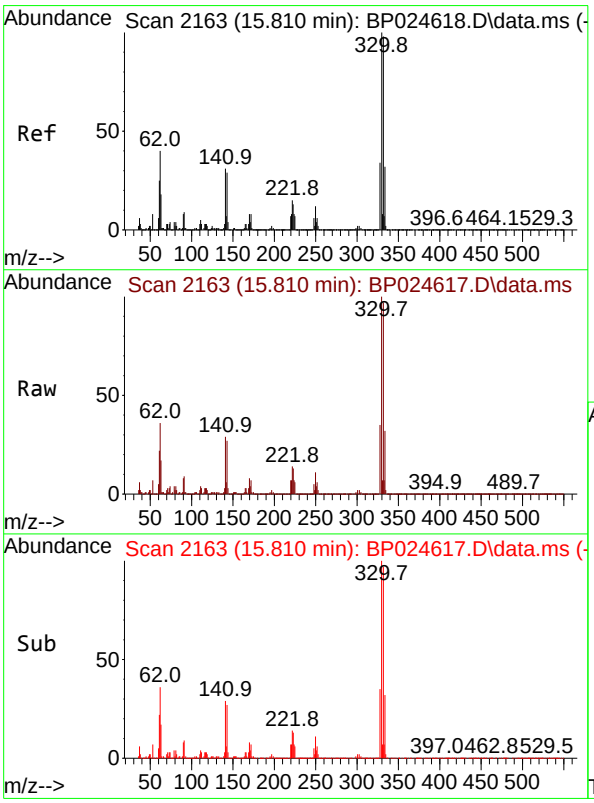
#41
Hexachlorocyclopentadiene
Concen: 19.899 ng
RT: 12.440 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:237 Resp: 113499

Ion	Ratio	Lower	Upper
237	100		
235	61.1	39.9	79.9
272	14.0	0.0	33.2

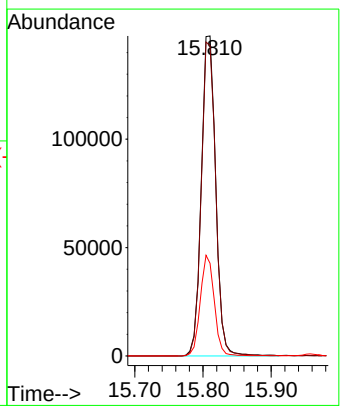


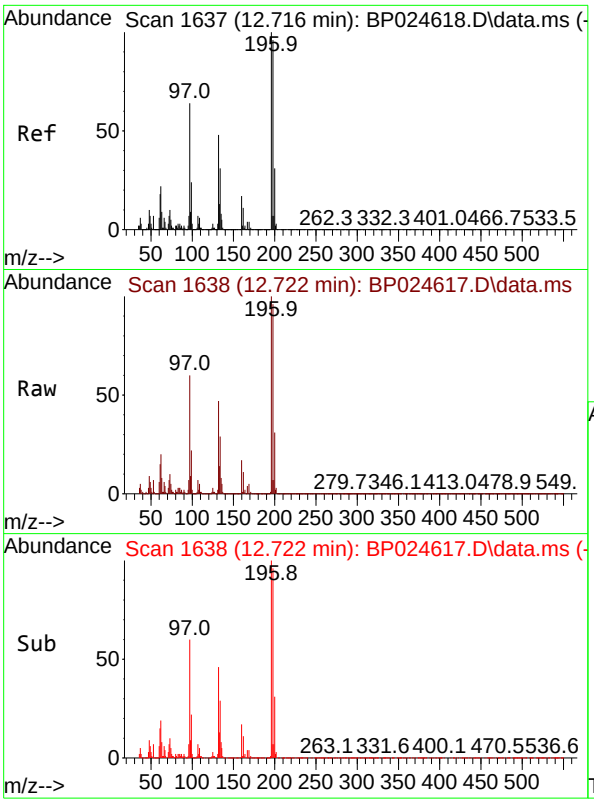


#42
2,4,6-Tribromophenol
Concen: 39.532 ng
RT: 15.810 min Scan# 2163
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:330 Resp: 217092

Ion	Ratio	Lower	Upper
330	100		
332	97.8	78.2	117.4
141	30.5	24.3	36.5



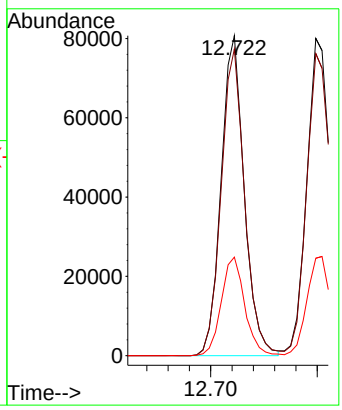


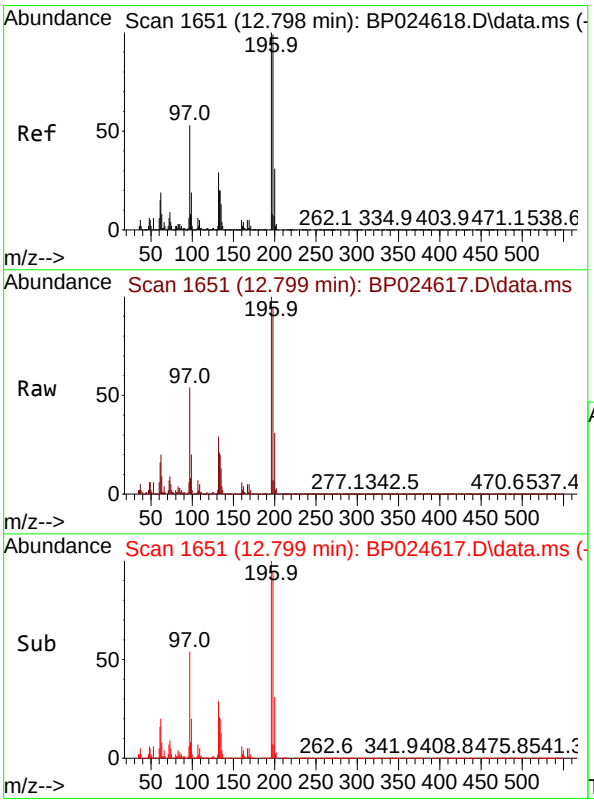
#43
2,4,6-Trichlorophenol
Concen: 19.945 ng
RT: 12.722 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:196 Resp: 121520

Ion	Ratio	Lower	Upper
196	100		
198	95.8	76.9	115.3
200	30.8	25.2	37.8

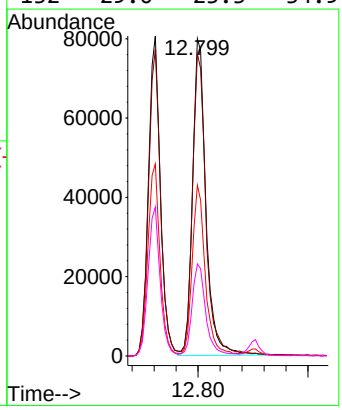


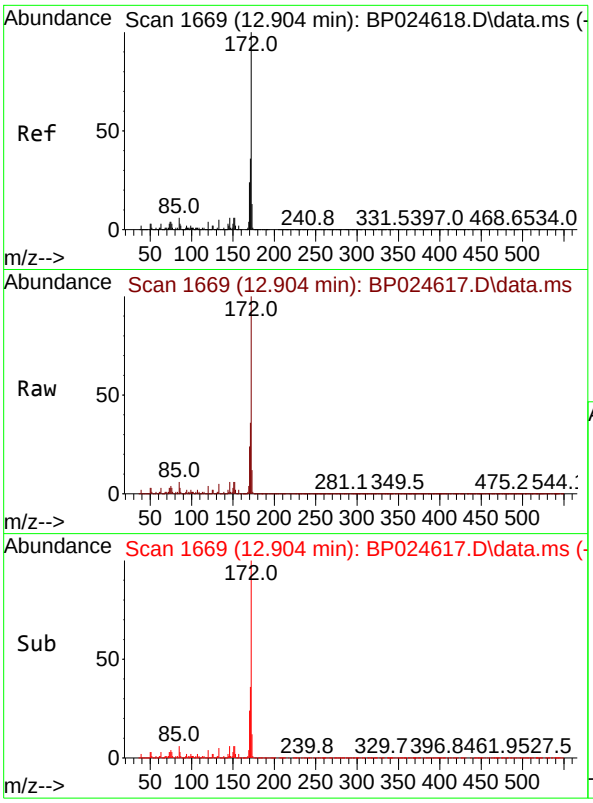


#44
2,4,5-Trichlorophenol
Concen: 19.951 ng
RT: 12.799 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:196 Resp: 135306

Ion	Ratio	Lower	Upper
196	100		
198	95.2	79.2	118.8
97	53.8	42.3	63.5
132	29.0	23.3	34.9



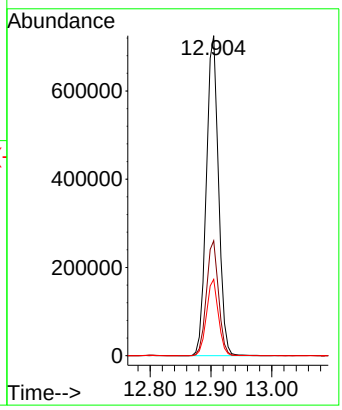


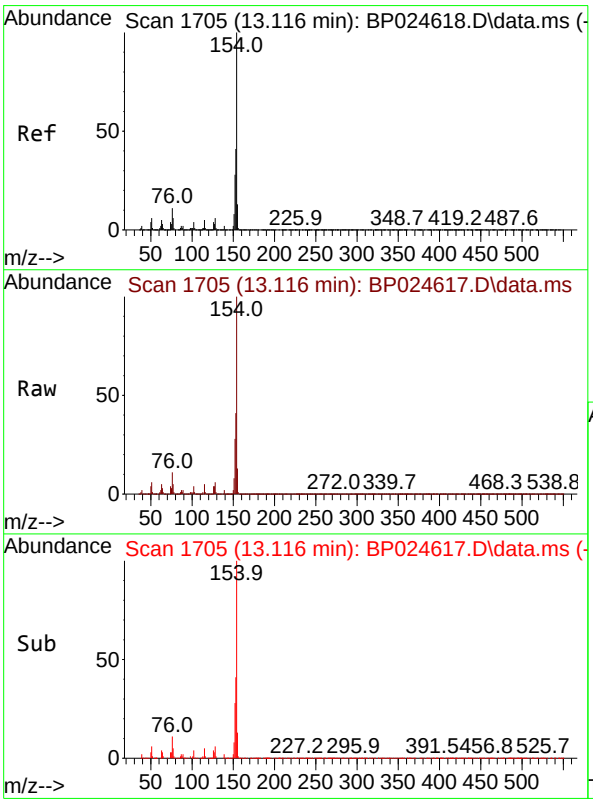
#45
2-Fluorobiphenyl
Concen: 40.694 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:172 Resp: 1006150

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.8	43.2
170	23.8	18.8	28.2

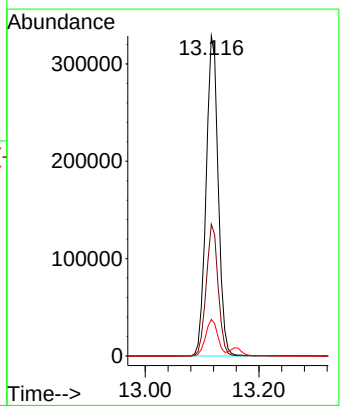


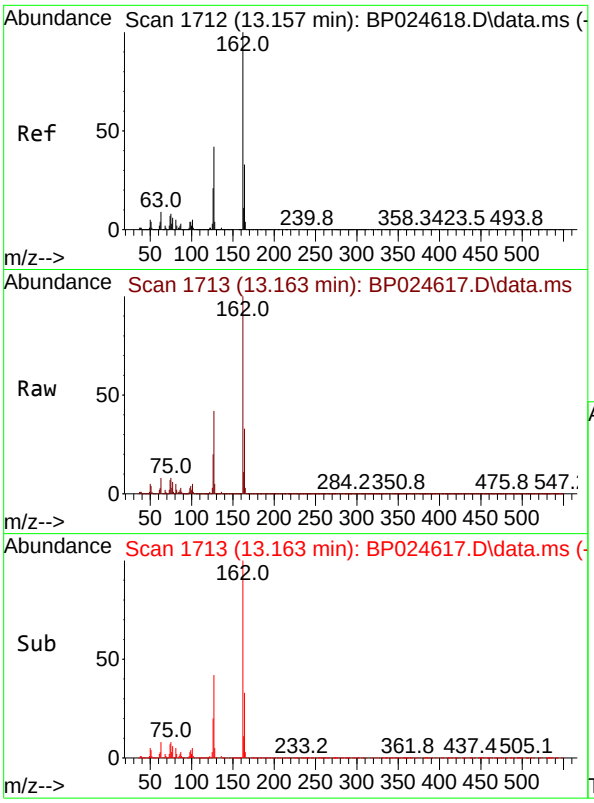


#46
1,1'-Biphenyl
Concen: 20.189 ng
RT: 13.116 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:154 Resp: 483352

Ion	Ratio	Lower	Upper
154	100		
153	41.2	21.0	61.0
76	11.4	0.0	31.5



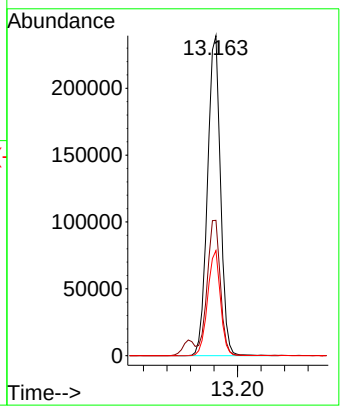


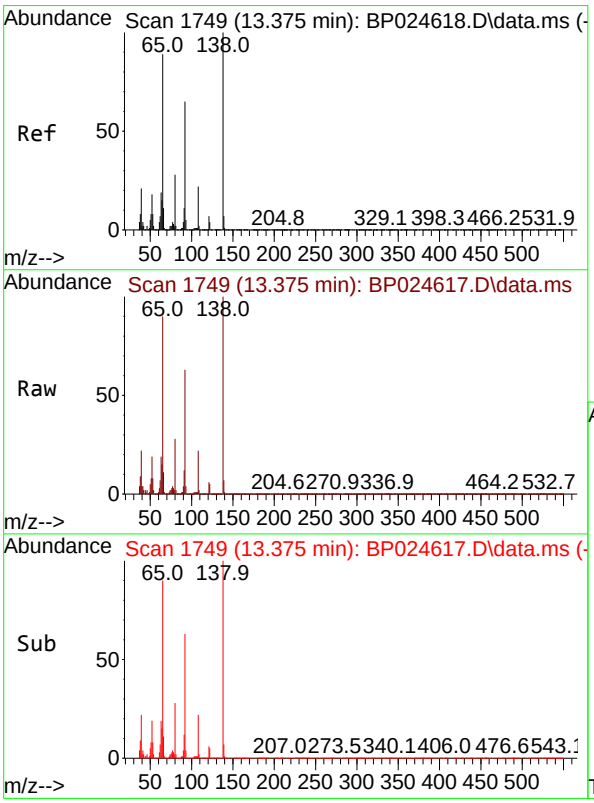
#47
2-Chloronaphthalene
Concen: 20.063 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:162 Resp: 366247

Ion	Ratio	Lower	Upper
162	100		
127	42.3	33.8	50.6
164	32.8	26.0	39.0

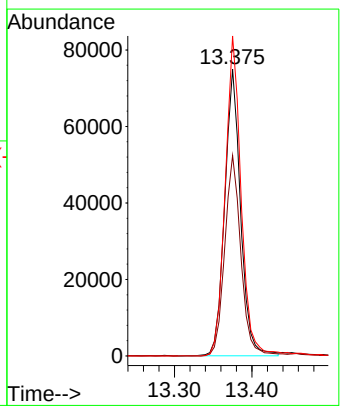


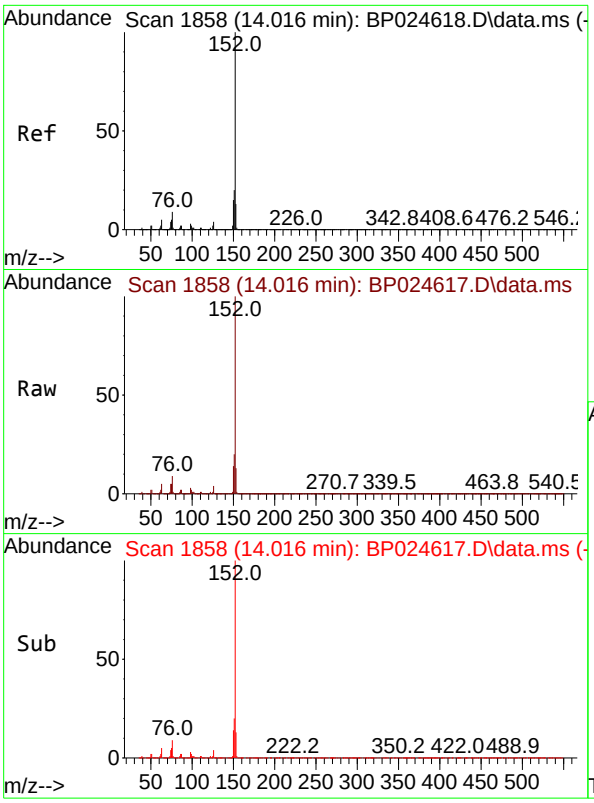


#48
2-Nitroaniline
Concen: 19.809 ng
RT: 13.375 min Scan# 1749
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion: 65 Resp: 107062

Ion	Ratio	Lower	Upper
65	100		
92	69.8	58.7	88.1
138	111.5	90.2	135.2



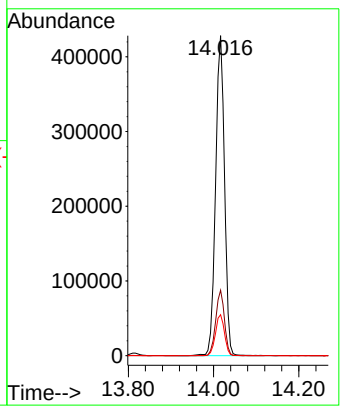


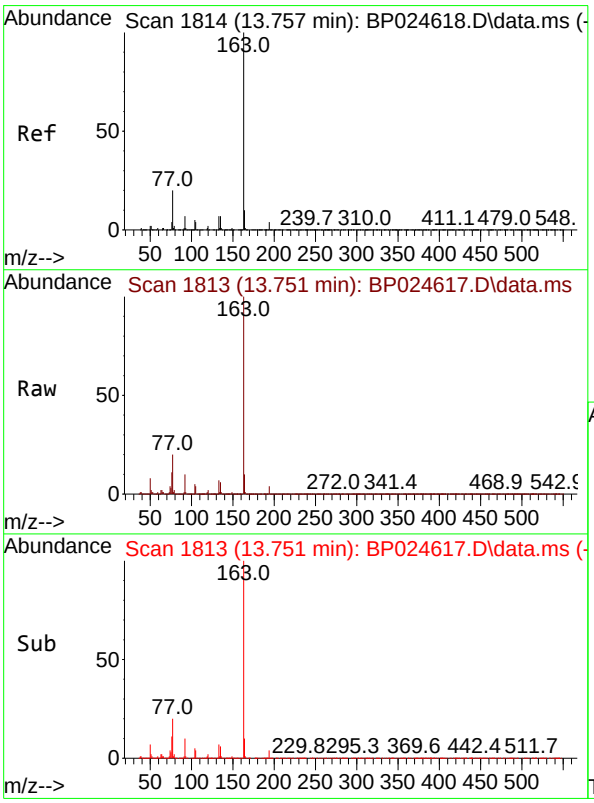
#49
Acenaphthylene
Concen: 20.360 ng
RT: 14.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:152 Resp: 621997

Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.4
153	12.8	10.2	15.4

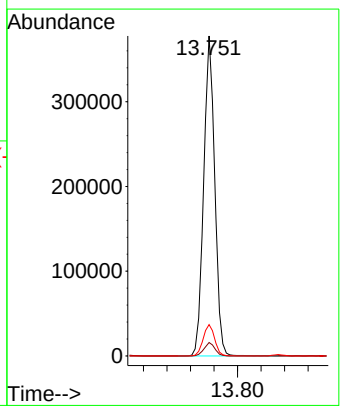


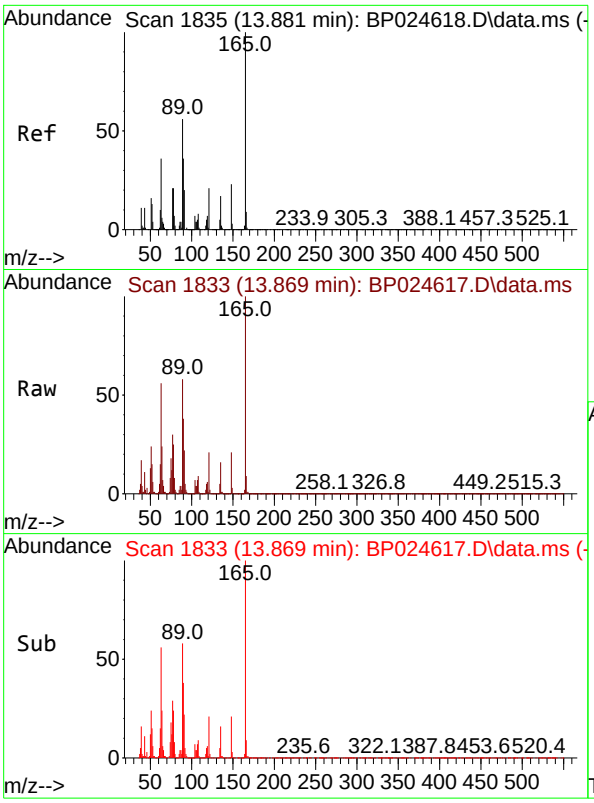


#50
Dimethylphthalate
Concen: 19.912 ng
RT: 13.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:163 Resp: 491623

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	9.8	8.1	12.1



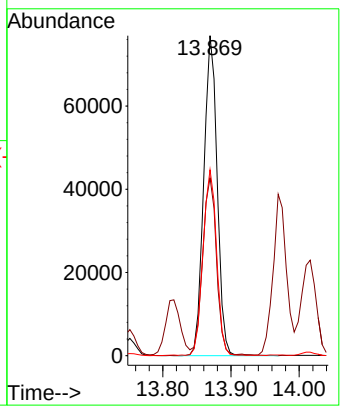


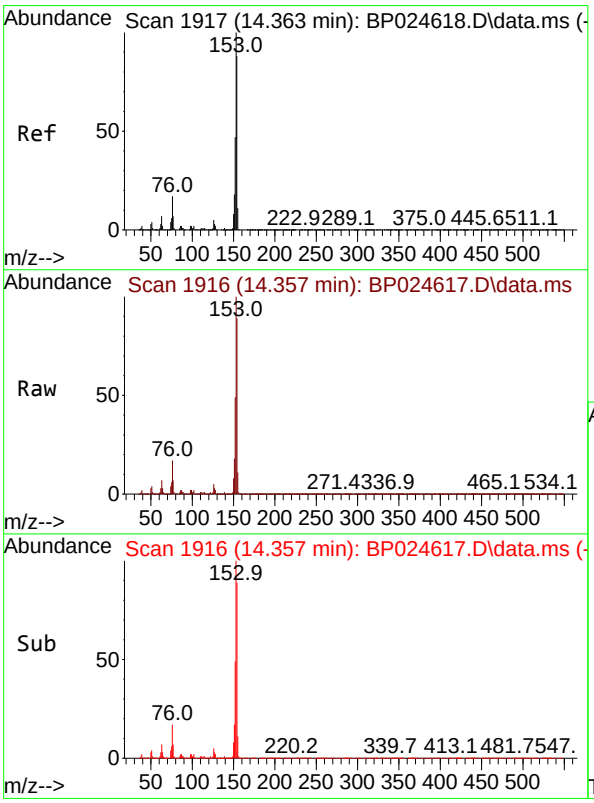
#51
2,6-Dinitrotoluene
Concen: 20.228 ng
RT: 13.869 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 105479

Ion	Ratio	Lower	Upper
165	100		
63	55.6	42.4	63.6
89	58.1	44.8	67.2

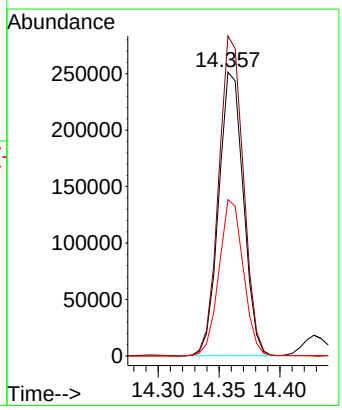


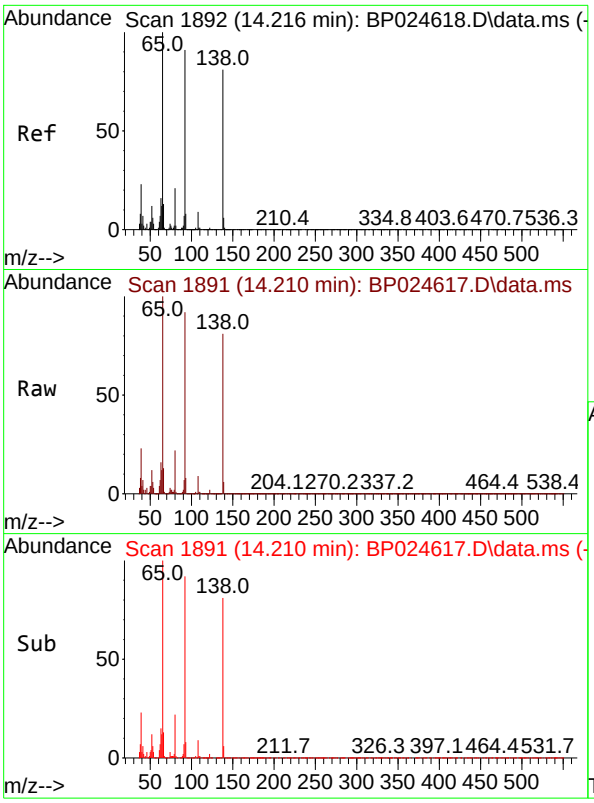


#52
Acenaphthene
Concen: 20.186 ng
RT: 14.357 min Scan# 1916
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:154 Resp: 354519

Ion	Ratio	Lower	Upper
154	100		
153	112.7	91.0	136.4
152	55.1	42.9	64.3



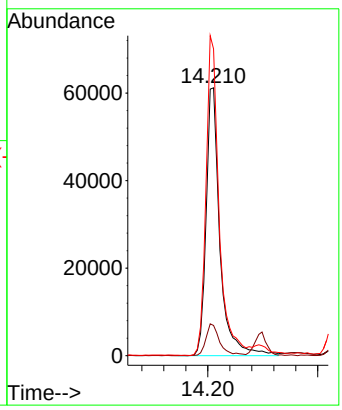


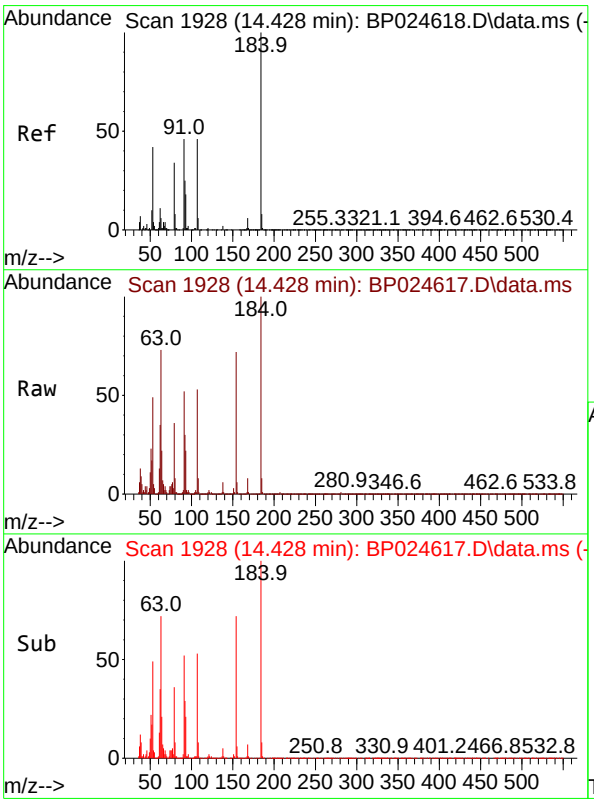
#53
3-Nitroaniline
Concen: 20.008 ng
RT: 14.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:138 Resp: 106527

Ion	Ratio	Lower	Upper
138	100		
108	11.3	9.0	13.4
92	114.5	90.1	135.1

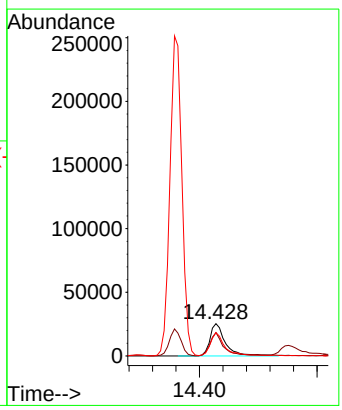


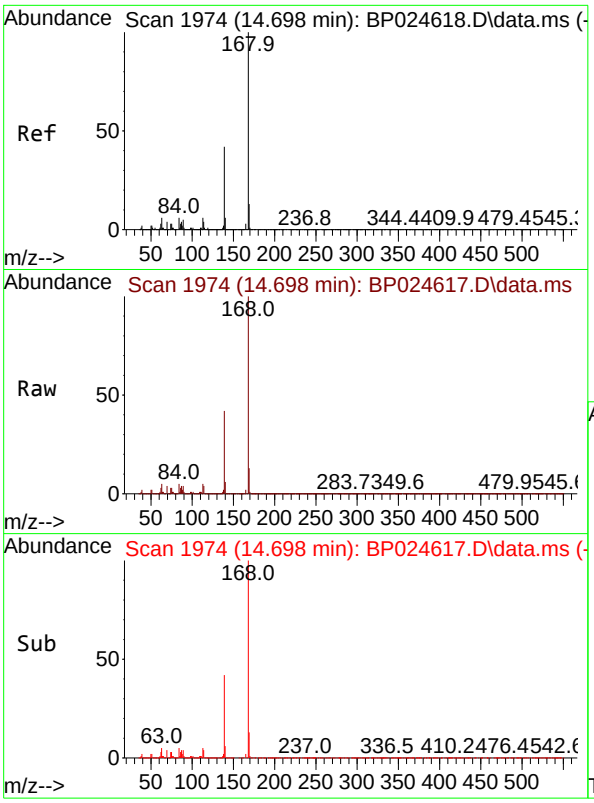


#54
2,4-Dinitrophenol
Concen: 19.370 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:184 Resp: 46351

Ion	Ratio	Lower	Upper
184	100		
63	72.5	51.3	76.9
154	72.4	53.5	80.3



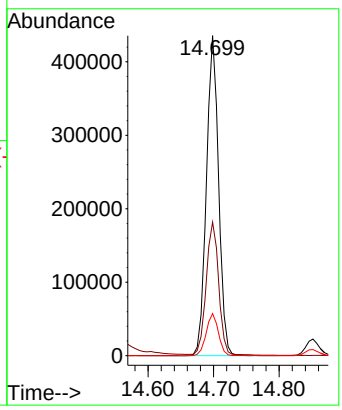


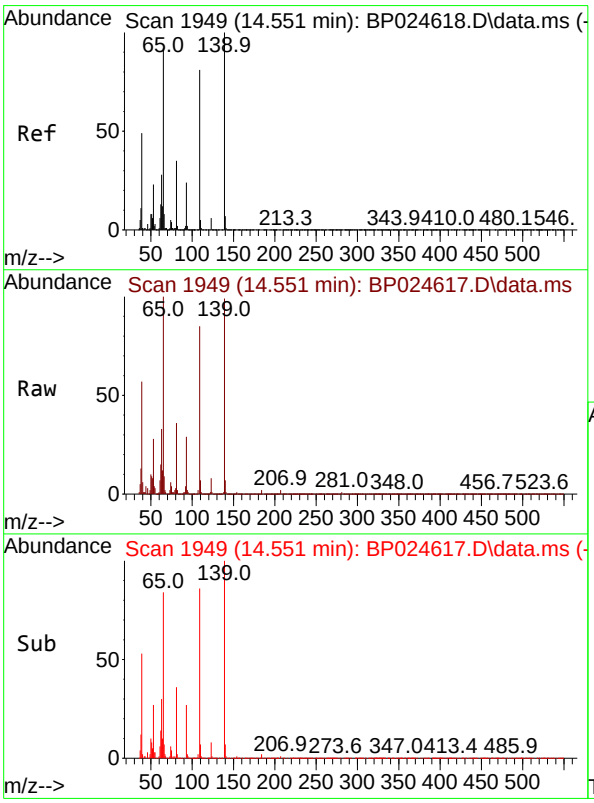
#55
Dibenzofuran
Concen: 20.123 ng
RT: 14.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:168 Resp: 563719

Ion	Ratio	Lower	Upper
168	100		
139	41.8	34.2	51.4
169	13.1	10.8	16.2

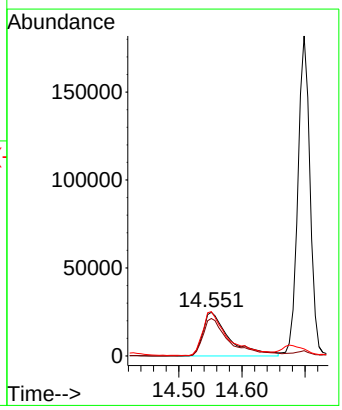


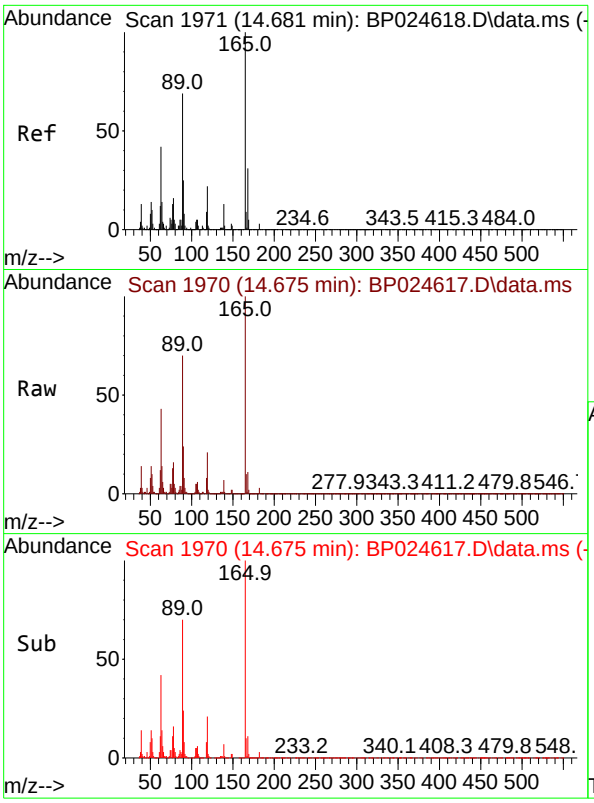


#56
4-Nitrophenol
Concen: 19.022 ng
RT: 14.551 min Scan# 1949
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:139 Resp: 71975

Ion	Ratio	Lower	Upper
139	100		
109	85.7	61.4	101.4
65	101.4	72.2	112.2



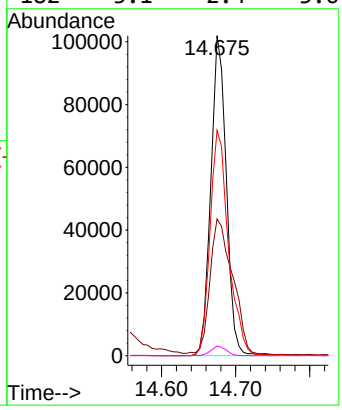


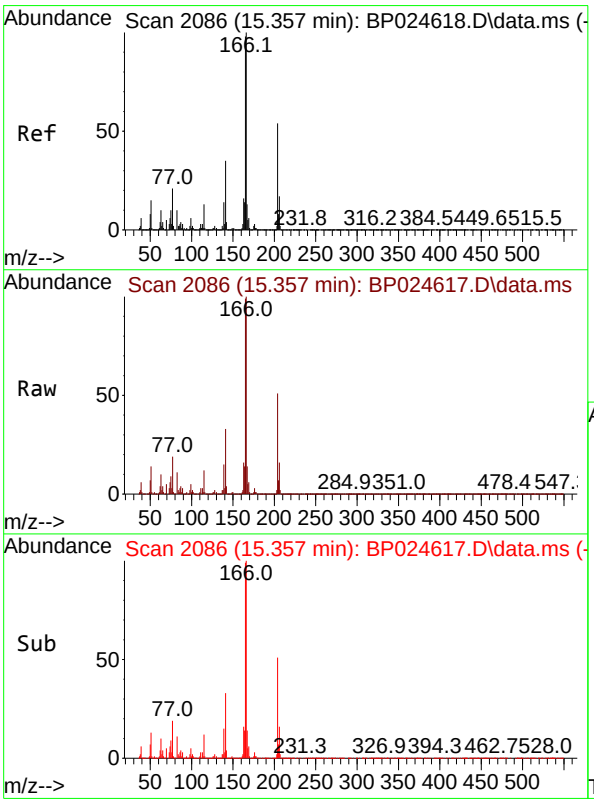
#57
2,4-Dinitrotoluene
Concen: 20.088 ng
RT: 14.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:165 Resp: 147676

Ion	Ratio	Lower	Upper
165	100		
63	42.7	33.8	50.6
89	70.4	55.6	83.4
182	3.1	2.4	3.6

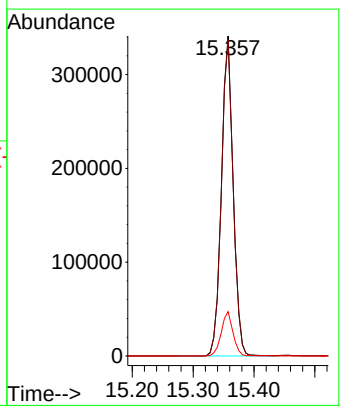


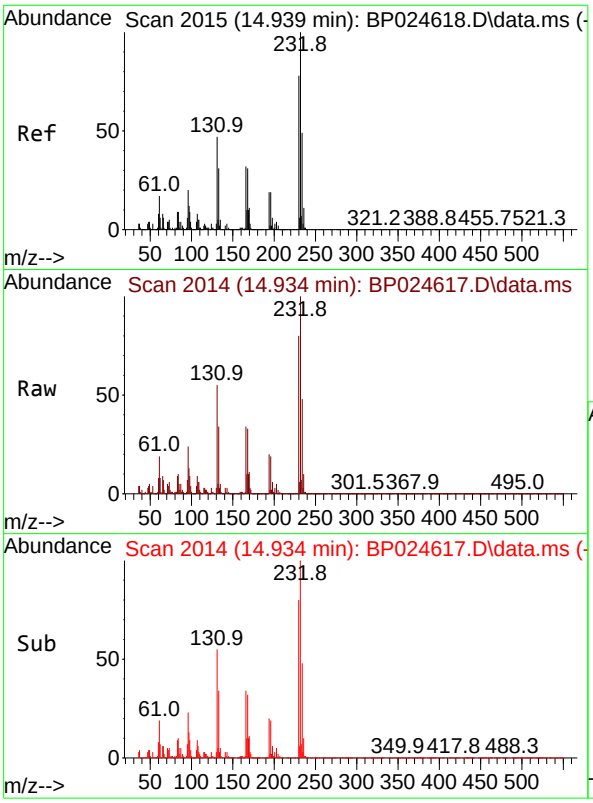


#58
Fluorene
Concen: 19.998 ng
RT: 15.357 min Scan# 2086
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:166 Resp: 456792

Ion	Ratio	Lower	Upper
166	100		
165	98.9	78.5	117.7
167	13.8	10.7	16.1



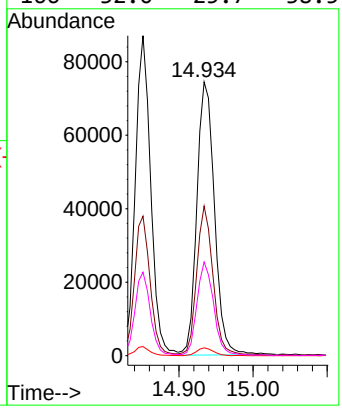


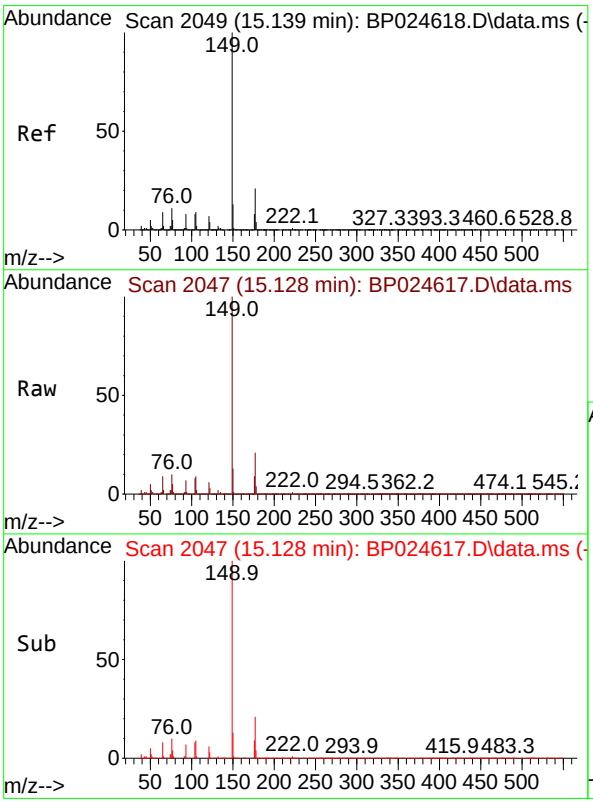
#59
2,3,4,6-Tetrachlorophenol
Concen: 19.593 ng
RT: 14.934 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:232 Resp: 123265

Ion	Ratio	Lower	Upper
232	100		
131	50.2	39.5	59.3
130	2.7	2.2	3.4
166	32.0	25.7	38.5

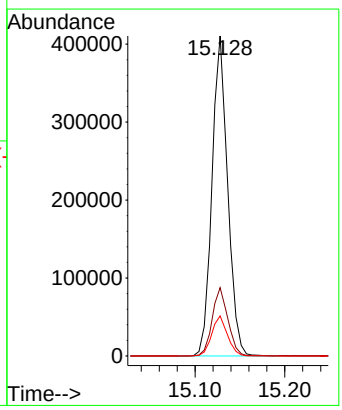


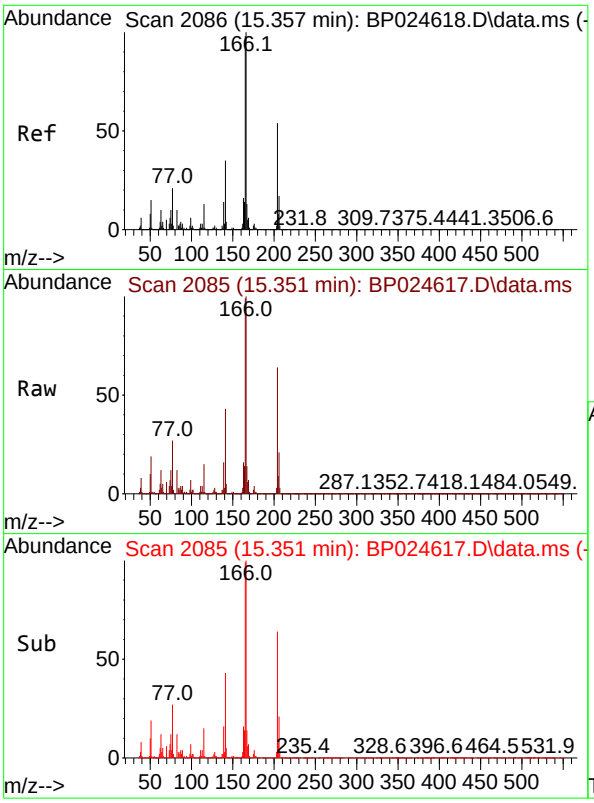


#60
Diethylphthalate
Concen: 19.953 ng
RT: 15.128 min Scan# 2047
Delta R.T. -0.012 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:149 Resp: 497916

Ion	Ratio	Lower	Upper
149	100		
177	21.4	16.7	25.1
150	12.5	10.2	15.2



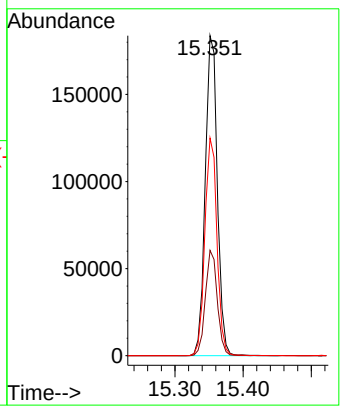


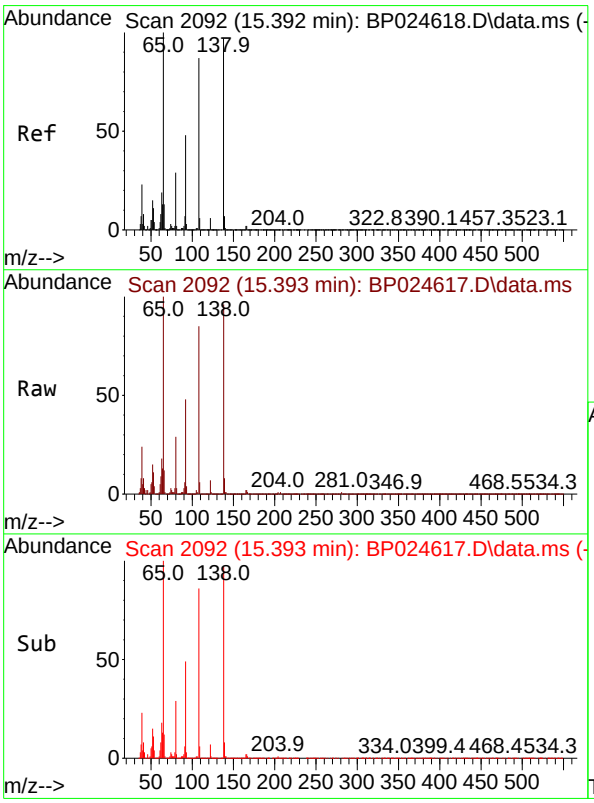
#61
4-Chlorophenyl-phenylether
Concen: 19.909 ng
RT: 15.351 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 226790

Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.0	39.0
141	68.0	52.9	79.3

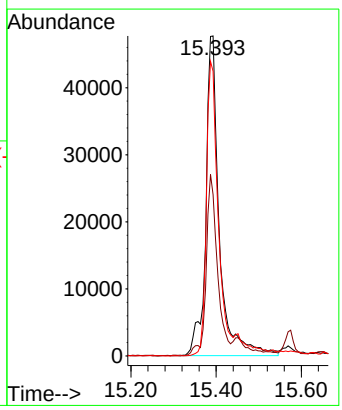


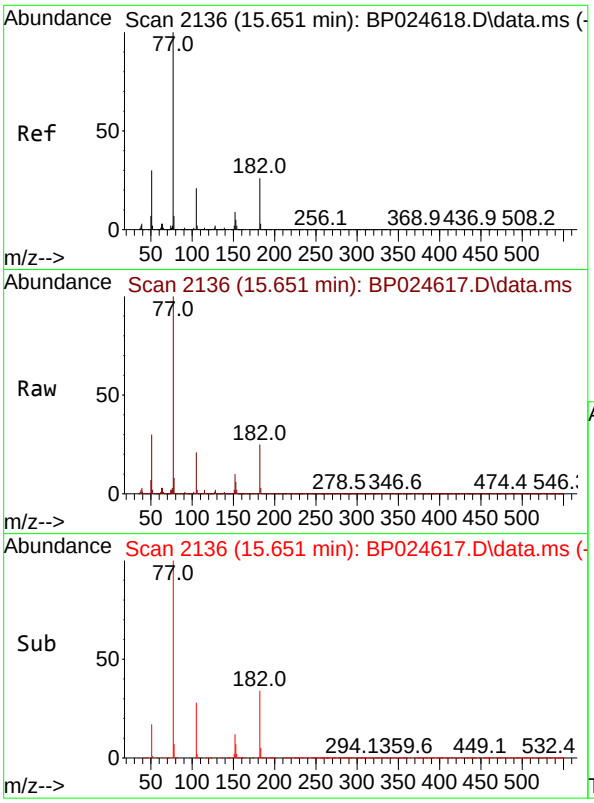


#62
4-Nitroaniline
Concen: 20.374 ng
RT: 15.393 min Scan# 2092
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:138 Resp: 105617

Ion	Ratio	Lower	Upper
138	100		
92	50.4	29.2	69.2
108	89.0	69.0	109.0



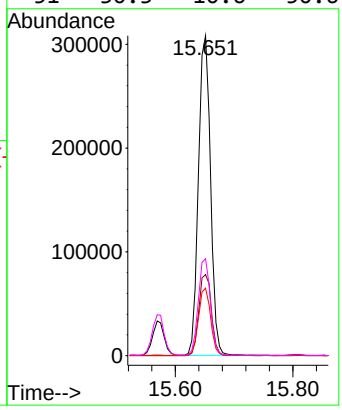


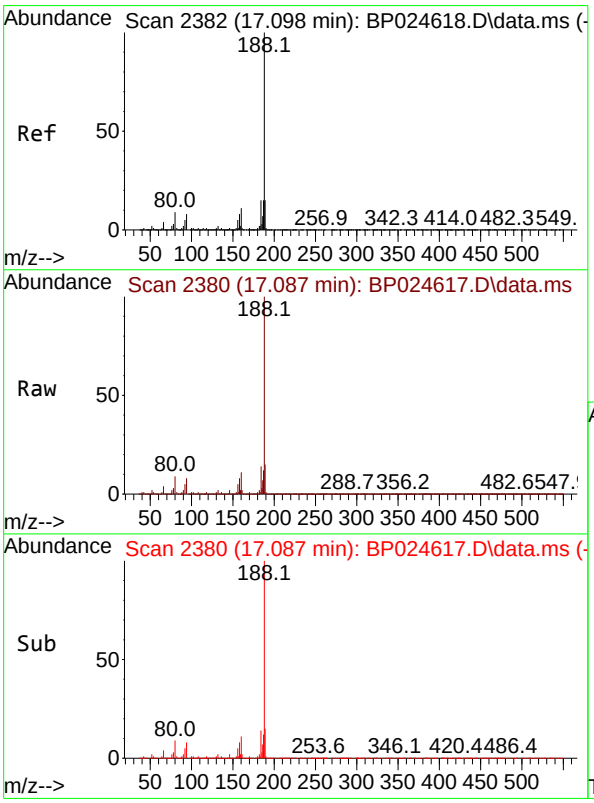
#63
Azobenzene
Concen: 20.573 ng
RT: 15.651 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion: 77 Resp: 439183

Ion	Ratio	Lower	Upper
77	100		
182	25.4	5.7	45.7
105	21.1	1.3	41.3
51	30.3	10.6	50.6

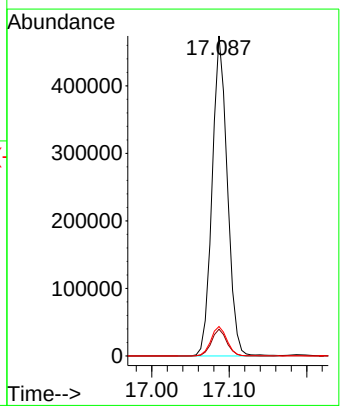


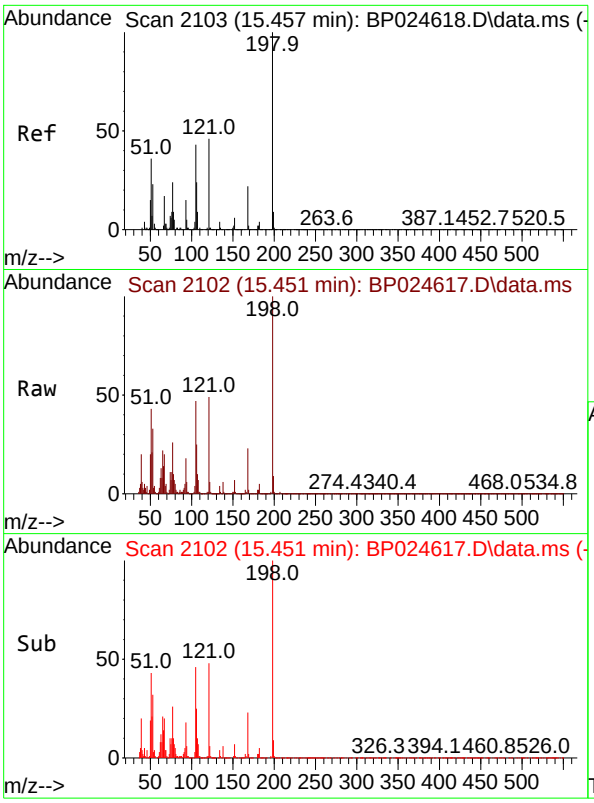


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.087 min Scan# 2380
Delta R.T. -0.012 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:188 Resp: 644367

Ion	Ratio	Lower	Upper
188	100		
94	8.3	6.5	9.7
80	9.2	7.3	10.9



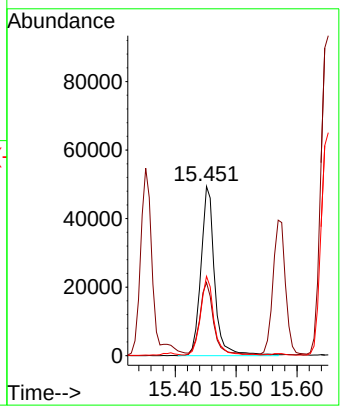


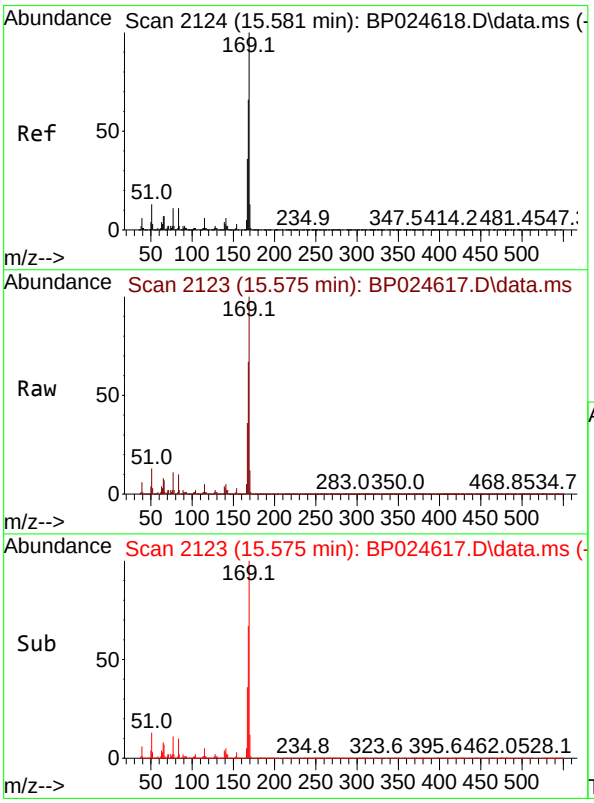
#65
4,6-Dinitro-2-methylphenol
Concen: 18.531 ng
RT: 15.451 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:198 Resp: 77131

Ion	Ratio	Lower	Upper
198	100		
51	43.2	21.1	61.1
105	46.8	23.6	63.6

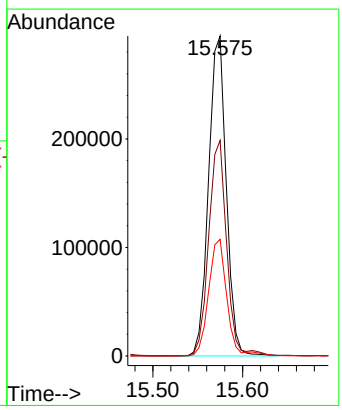


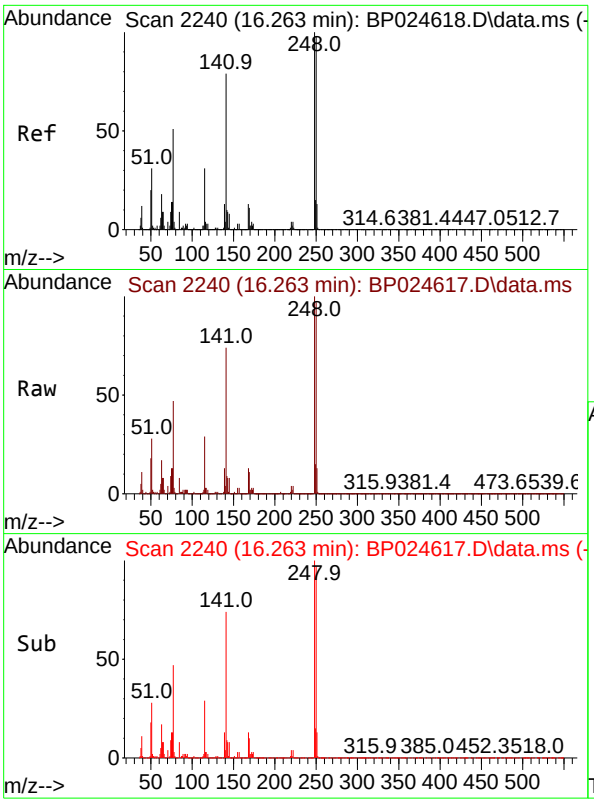


#66
n-Nitrosodiphenylamine
Concen: 20.416 ng
RT: 15.575 min Scan# 2123
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:169 Resp: 404085

Ion	Ratio	Lower	Upper
169	100		
168	67.4	53.2	79.8
167	36.5	28.6	43.0



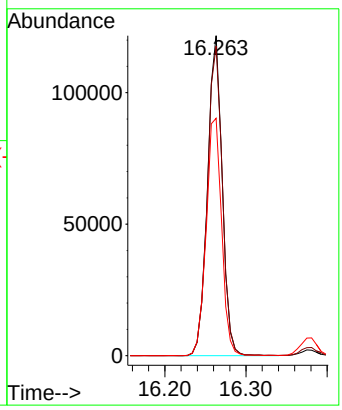


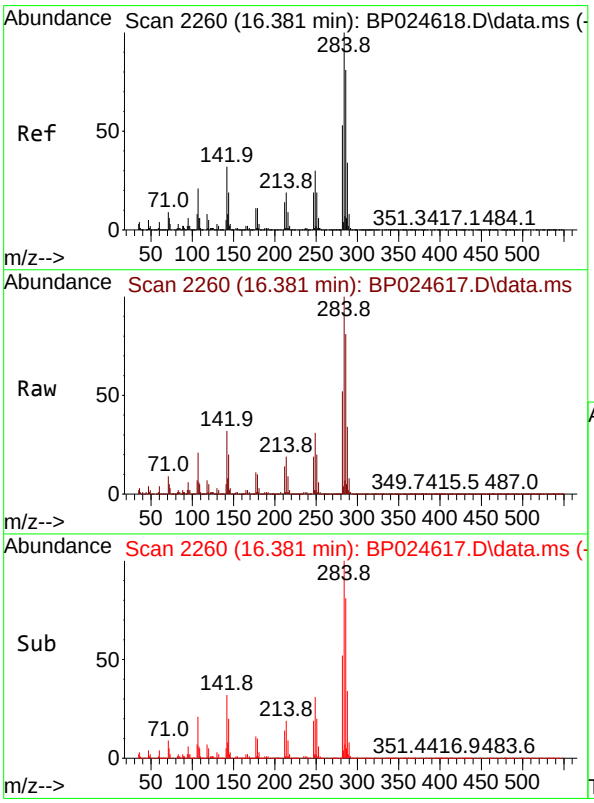
#67
4-Bromophenyl-phenylether
Concen: 20.071 ng
RT: 16.263 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:248 Resp: 152393

Ion	Ratio	Lower	Upper
248	100		
250	96.8	78.2	117.4
141	74.2	63.0	94.6

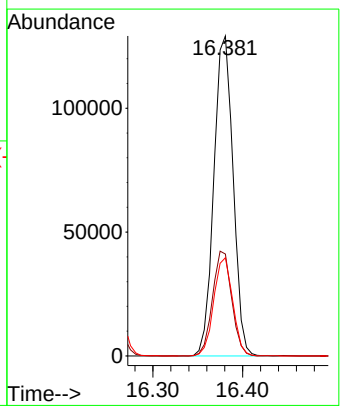


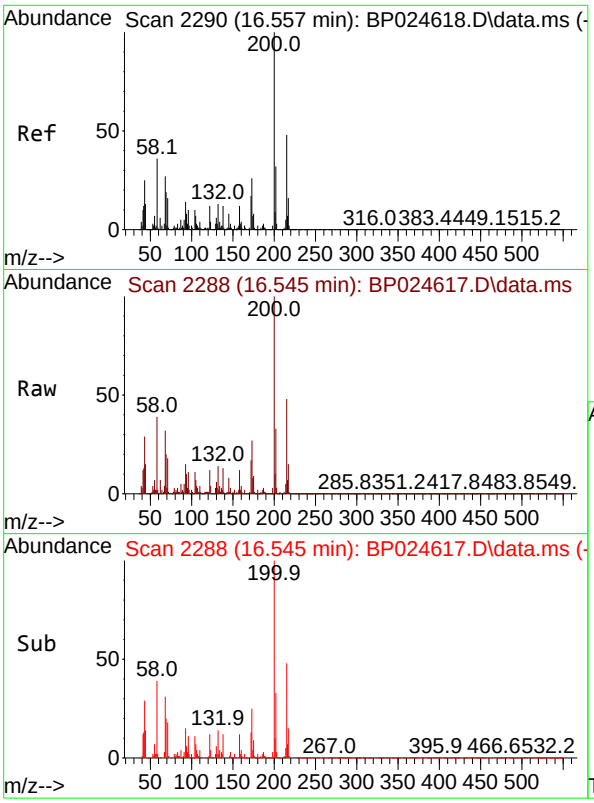


#68
Hexachlorobenzene
Concen: 19.930 ng
RT: 16.381 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:284 Resp: 192290

Ion	Ratio	Lower	Upper
284	100		
142	31.9	25.9	38.9
249	30.7	24.1	36.1



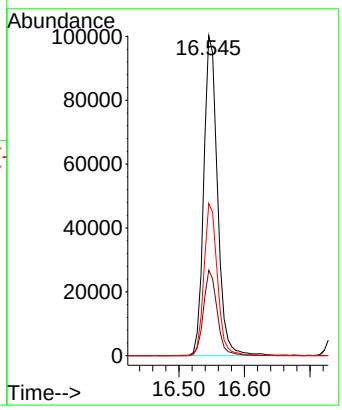


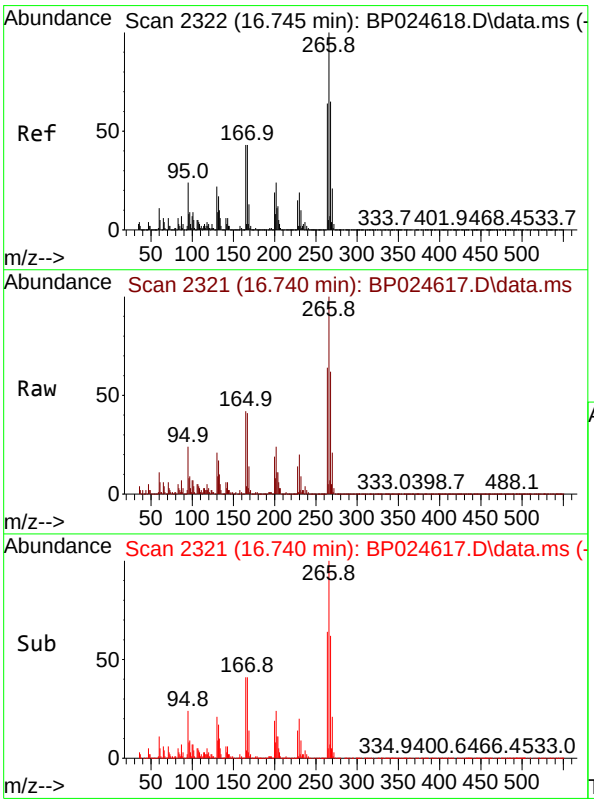
#69
Atrazine
Concen: 20.193 ng
RT: 16.545 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:200 Resp: 146468

Ion	Ratio	Lower	Upper
200	100		
173	26.7	5.9	45.9
215	47.5	28.3	68.3

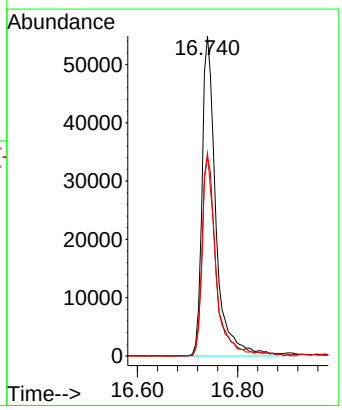


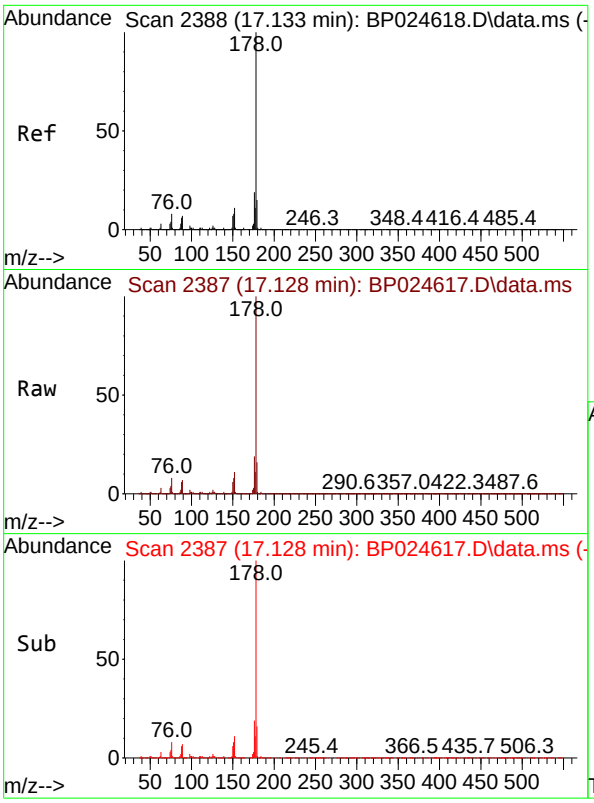


#70
Pentachlorophenol
Concen: 19.360 ng
RT: 16.740 min Scan# 2321
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:266 Resp: 104916

Ion	Ratio	Lower	Upper
266	100		
268	62.1	52.2	78.4
264	63.5	51.1	76.7



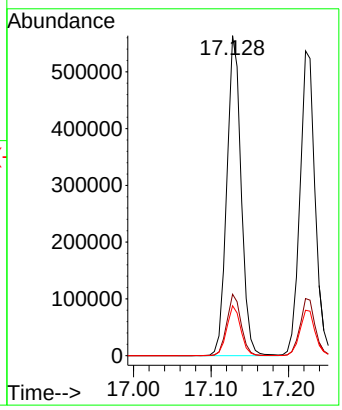


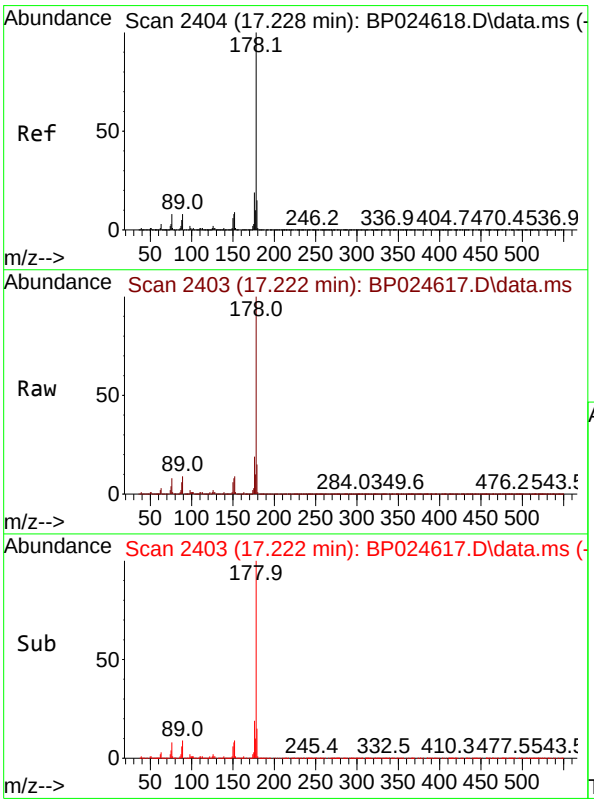
#71
Phenanthrene
Concen: 20.237 ng
RT: 17.128 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:178 Resp: 724922

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.6	12.2	18.4

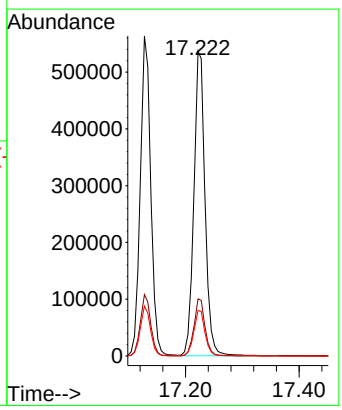


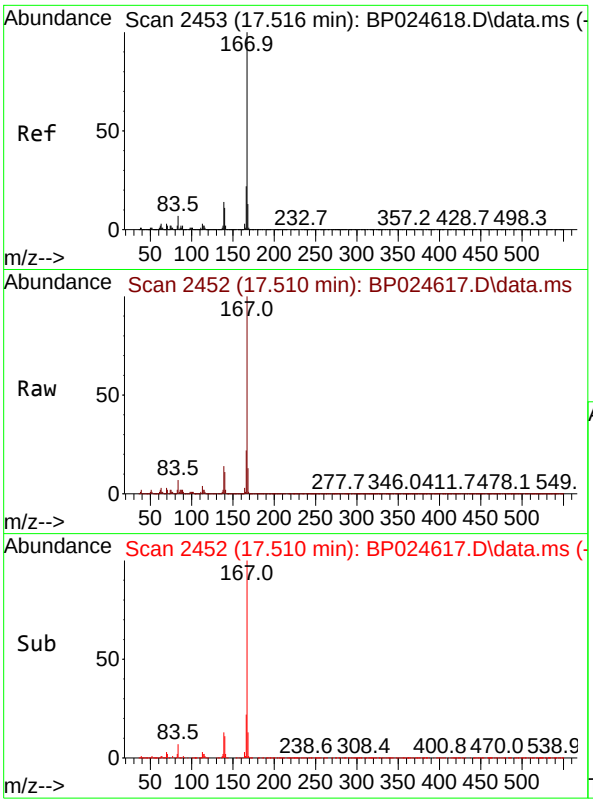


#72
Anthracene
Concen: 20.416 ng
RT: 17.222 min Scan# 2403
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:178 Resp: 735787

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	14.9	12.2	18.2



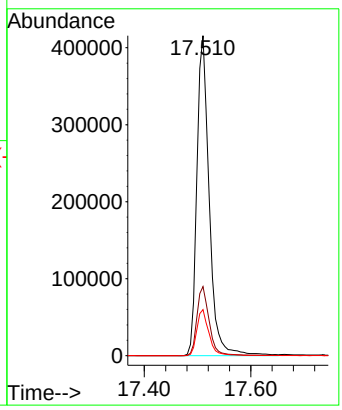


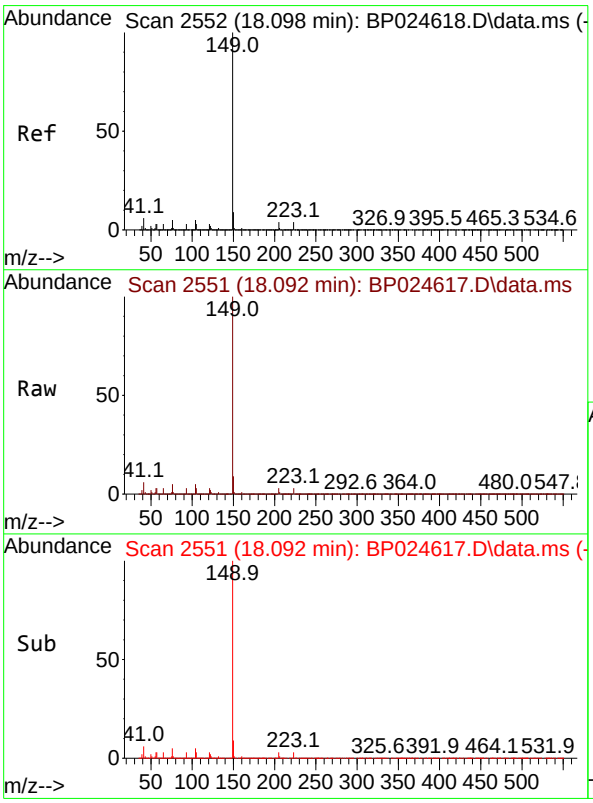
#73
Carbazole
Concen: 20.531 ng
RT: 17.510 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:167 Resp: 669730

Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.7	26.5
139	14.4	11.3	16.9

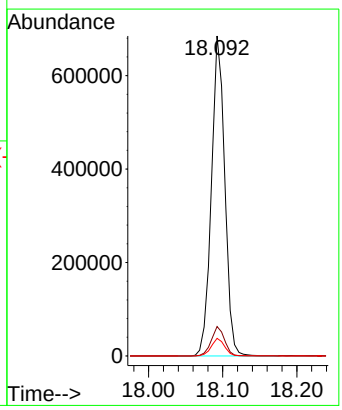


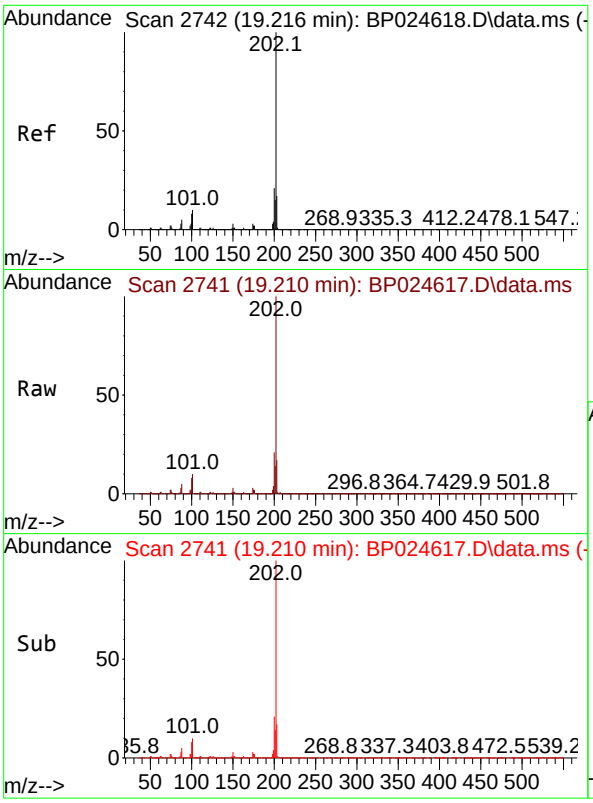


#74
Di-n-butylphthalate
Concen: 20.464 ng
RT: 18.092 min Scan# 2551
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:149 Resp: 858522

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	5.5	4.3	6.5



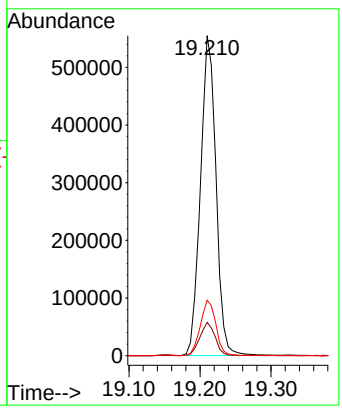


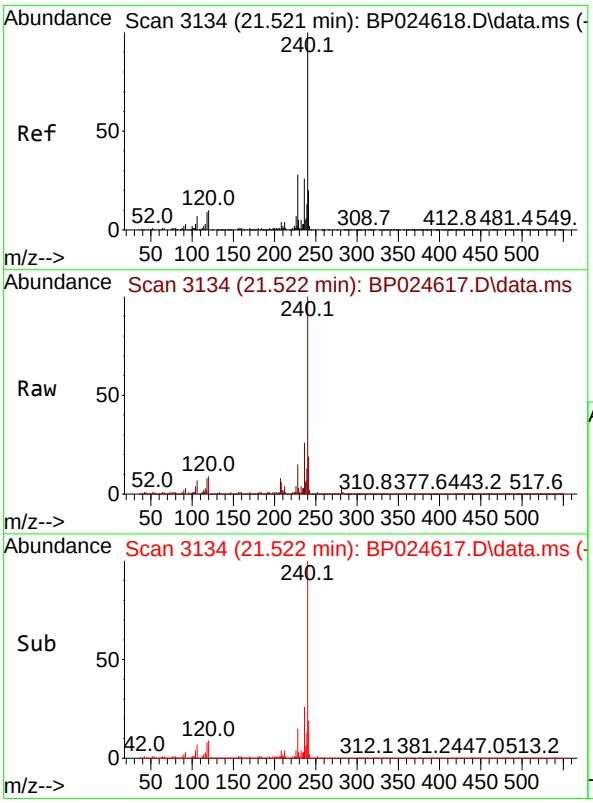
#75
Fluoranthene
Concen: 20.220 ng
RT: 19.210 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:202 Resp: 846684

Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	30.3
203	17.3	0.0	37.5

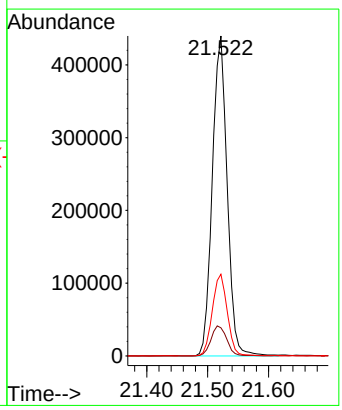


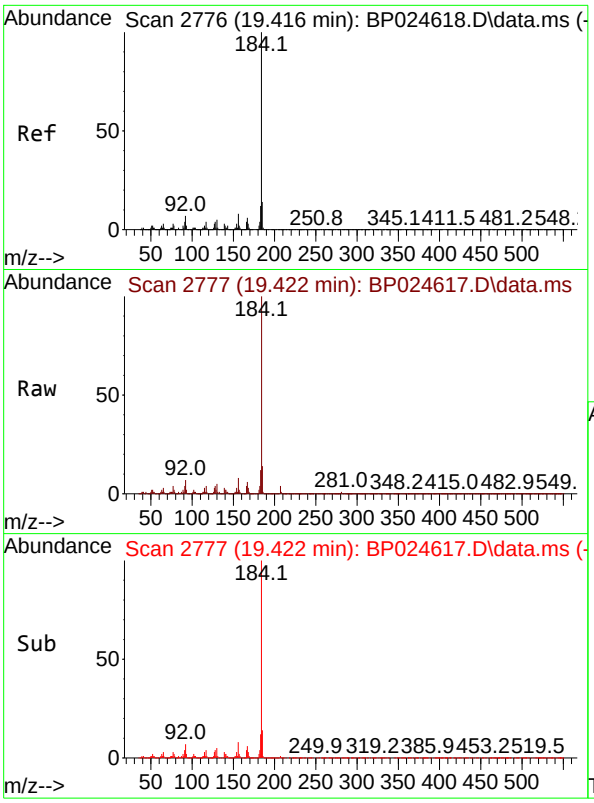


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.522 min Scan# 3134
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:240 Resp: 745224

Ion	Ratio	Lower	Upper
240	100		
120	8.8	7.8	11.6
236	25.5	20.6	31.0



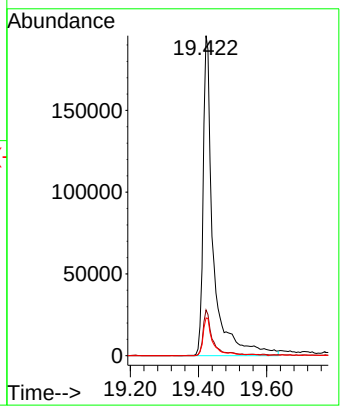


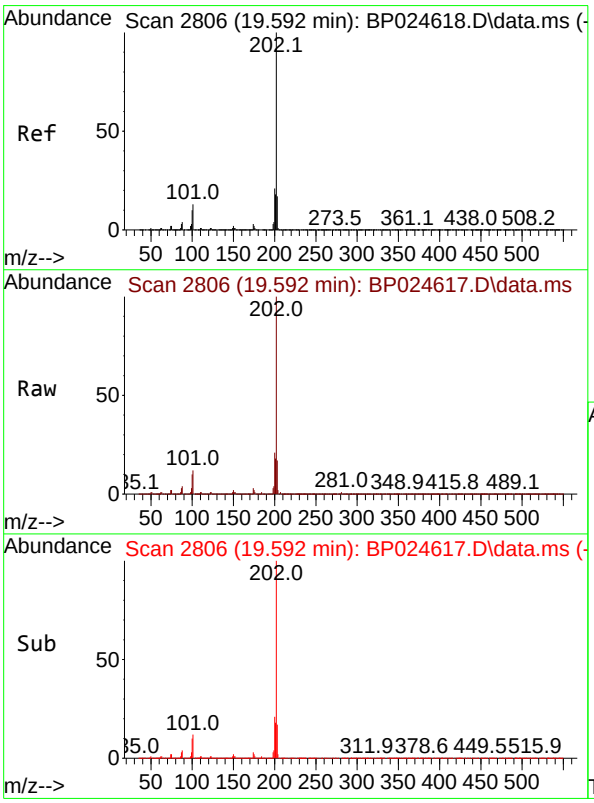
#77
Benzidine
Concen: 19.793 ng
RT: 19.422 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:184 Resp: 404890

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.2	16.8
183	11.8	9.8	14.8

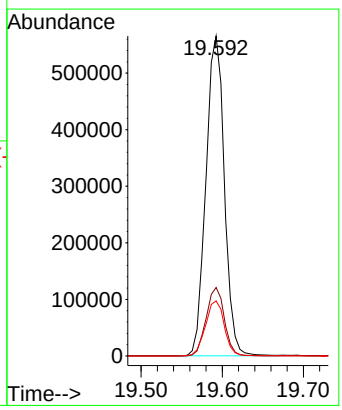


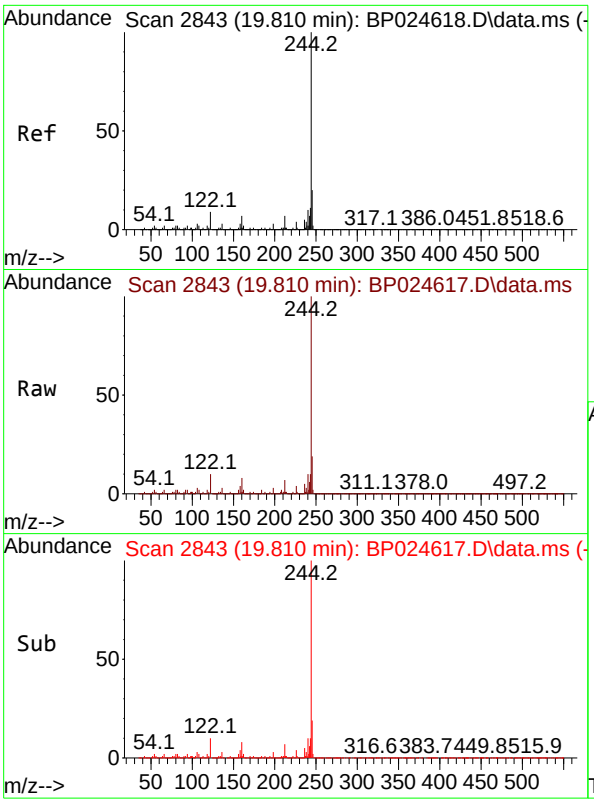


#78
Pyrene
Concen: 19.977 ng
RT: 19.592 min Scan# 2806
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:202 Resp: 892037

Ion	Ratio	Lower	Upper
202	100		
200	21.4	16.9	25.3
203	17.2	13.9	20.9



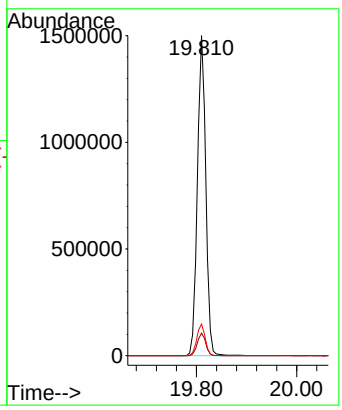


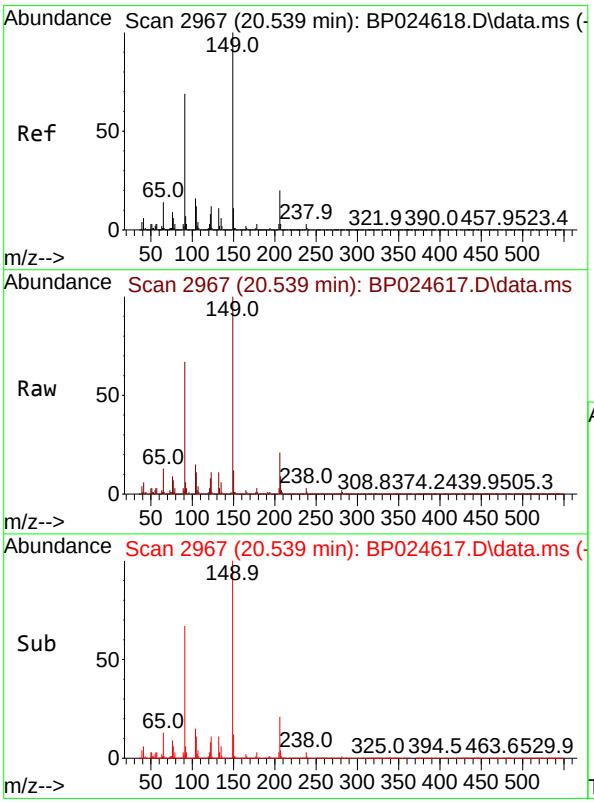
#79
Terphenyl-d14
Concen: 39.964 ng
RT: 19.810 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:244 Resp: 1736879

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.5	8.3
122	9.9	7.4	11.0

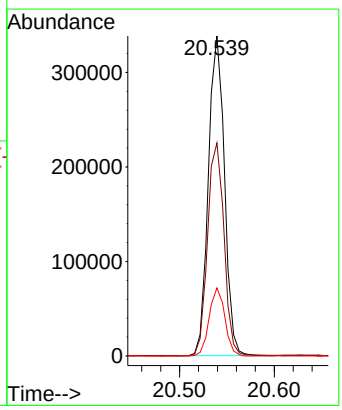


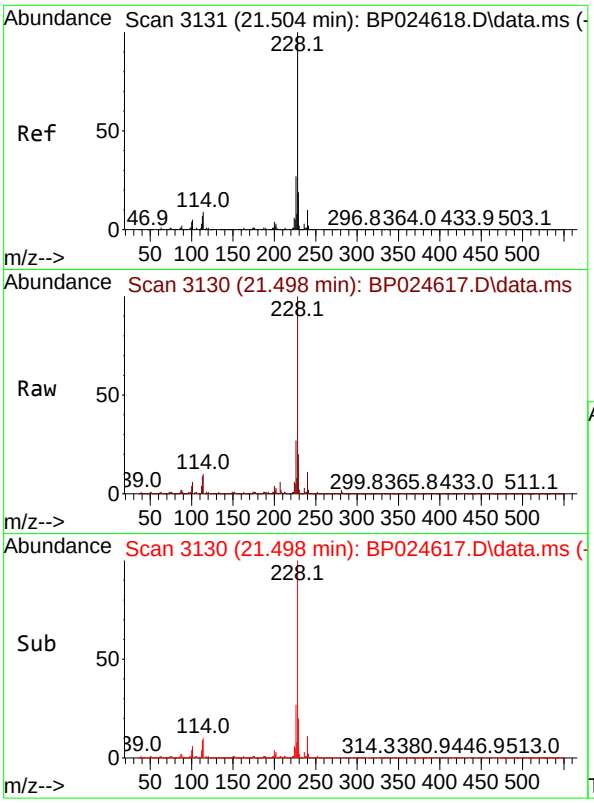


#80
Butylbenzylphthalate
Concen: 20.145 ng
RT: 20.539 min Scan# 2967
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:149 Resp: 400050

Ion	Ratio	Lower	Upper
149	100		
91	66.6	55.4	83.0
206	21.3	16.2	24.2



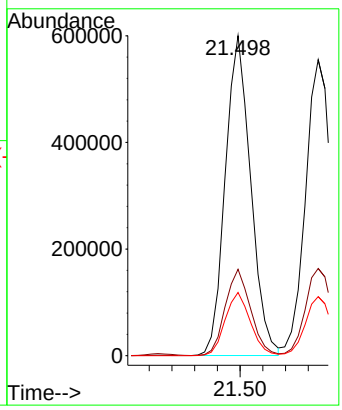


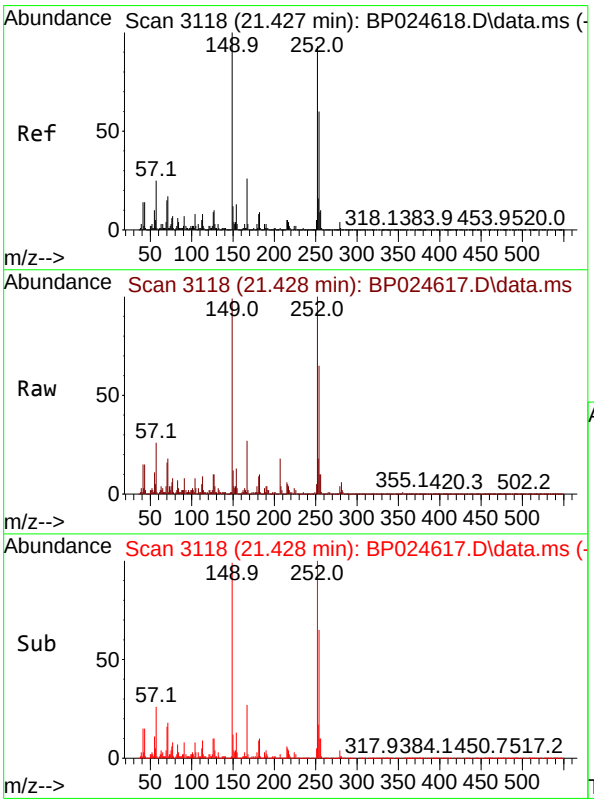
#81
Benzo(a)anthracene
Concen: 19.952 ng
RT: 21.498 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 933614

Ion	Ratio	Lower	Upper
228	100		
226	27.0	21.4	32.0
229	19.7	15.5	23.3

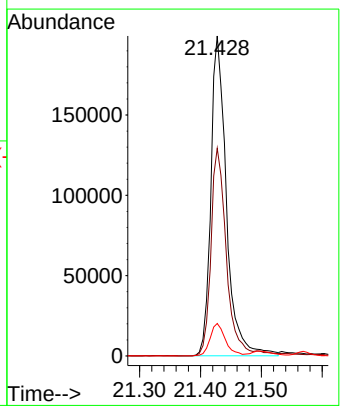


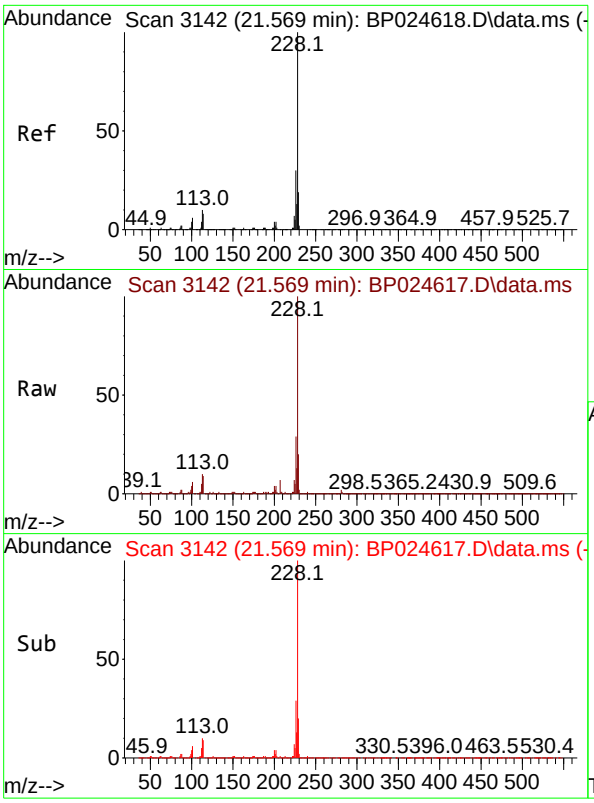


#82
3,3'-Dichlorobenzidine
Concen: 20.310 ng
RT: 21.428 min Scan# 3118
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:252 Resp: 353000

Ion	Ratio	Lower	Upper
252	100		
254	64.9	51.8	77.6
126	10.1	7.7	11.5



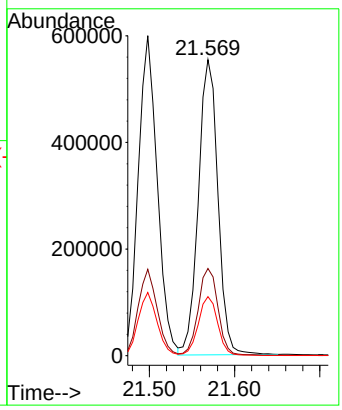


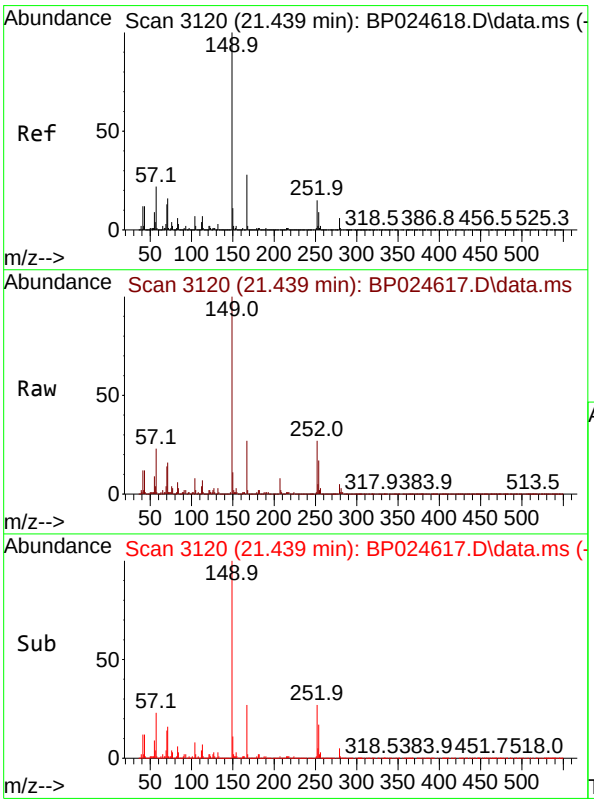
#83
Chrysene
Concen: 19.906 ng
RT: 21.569 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:228 Resp: 883001

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.9	35.9
229	20.0	15.5	23.3

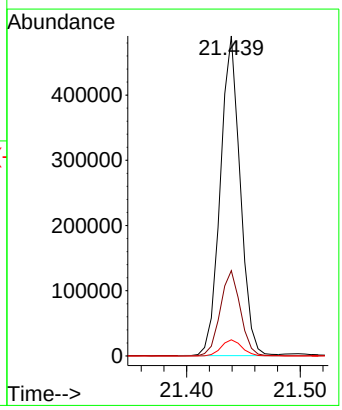


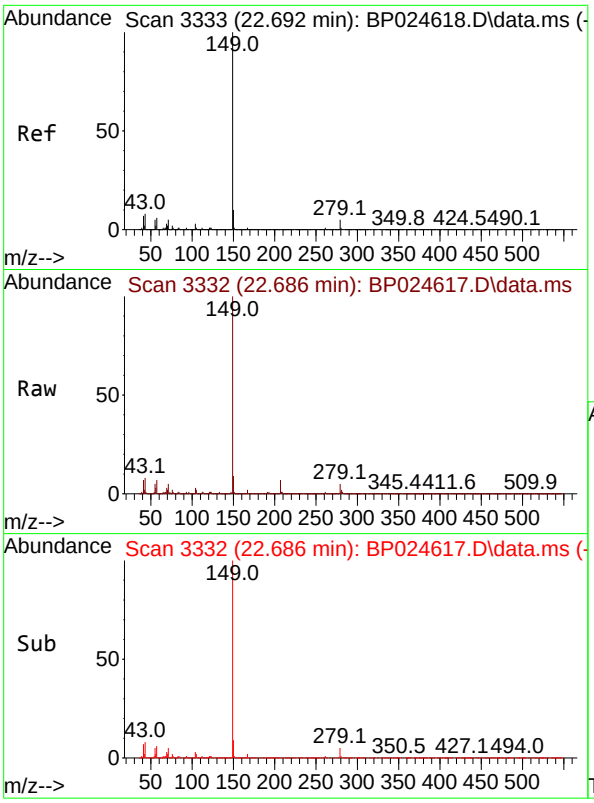


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.454 ng
RT: 21.439 min Scan# 3120
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:149 Resp: 597012

Ion	Ratio	Lower	Upper
149	100		
167	26.6	22.1	33.1
279	5.0	4.6	6.8



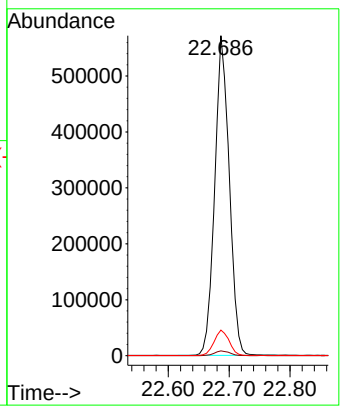


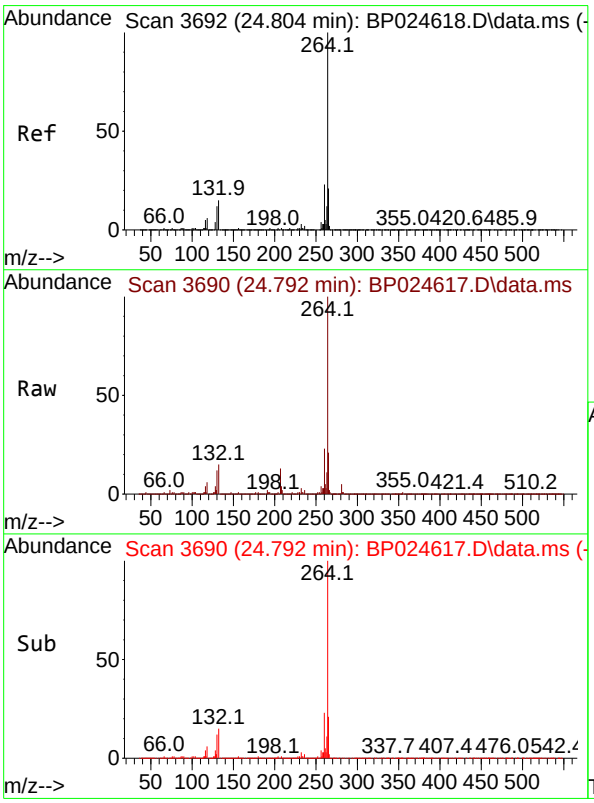
#85
Di-n-octyl phthalate
Concen: 19.852 ng
RT: 22.686 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:149 Resp: 947571

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	8.3	6.3	9.5

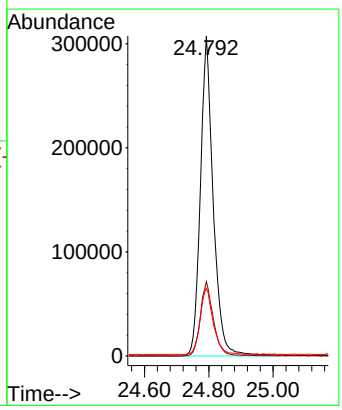


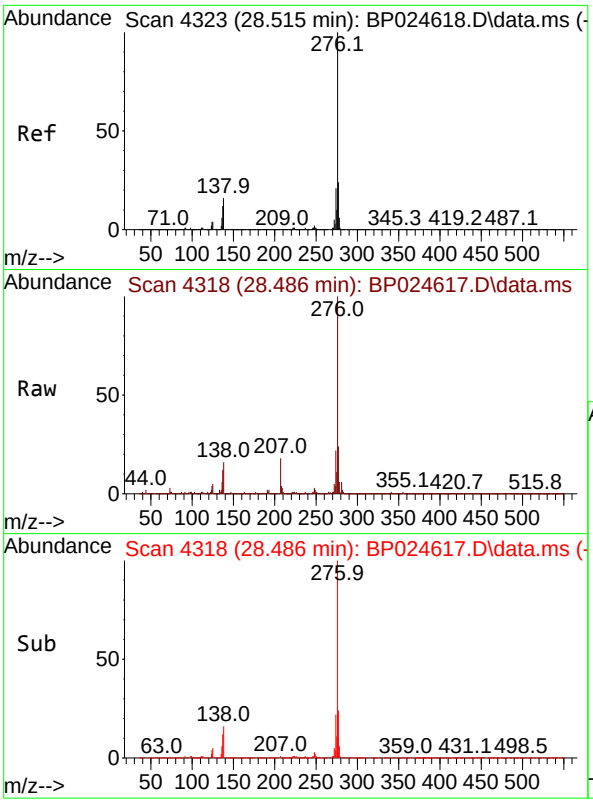


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.792 min Scan# 3690
Delta R.T. -0.012 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:264 Resp: 850264

Ion	Ratio	Lower	Upper
264	100		
260	23.2	18.7	28.1
265	21.2	17.0	25.6



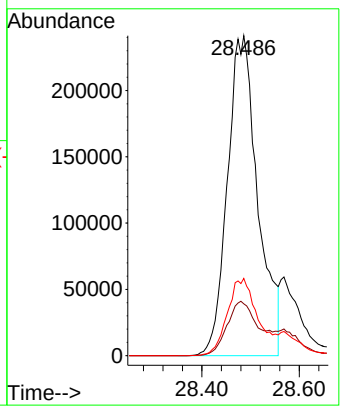


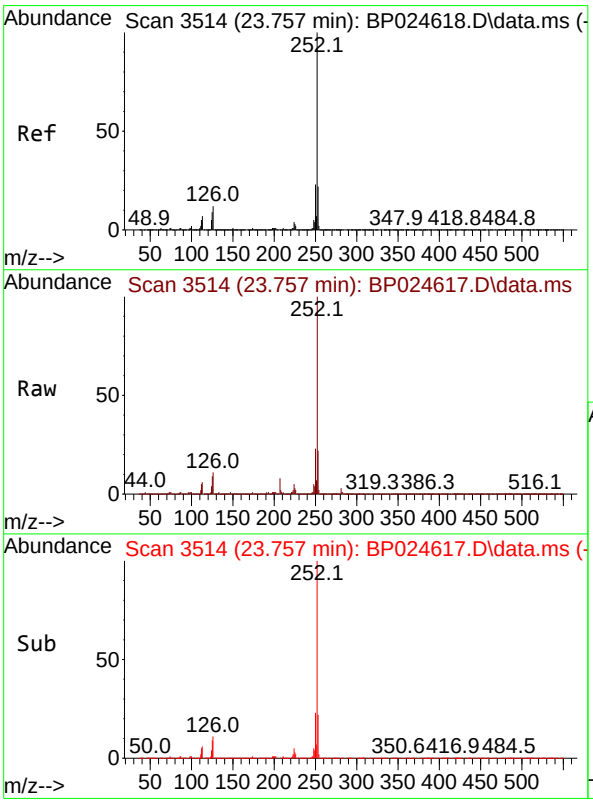
#87
Indeno(1,2,3-cd)pyrene
Concen: 16.867 ng
RT: 28.486 min Scan# 4
Delta R.T. -0.029 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:276 Resp: 1047319

Ion	Ratio	Lower	Upper
276	100		
138	17.8	11.2	16.8#
277	24.6	15.7	23.5#

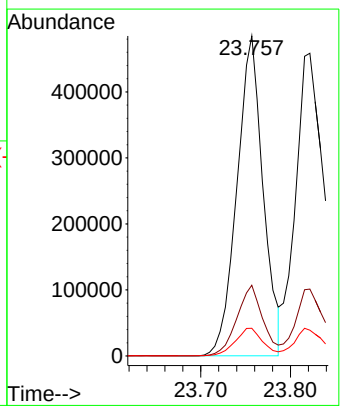


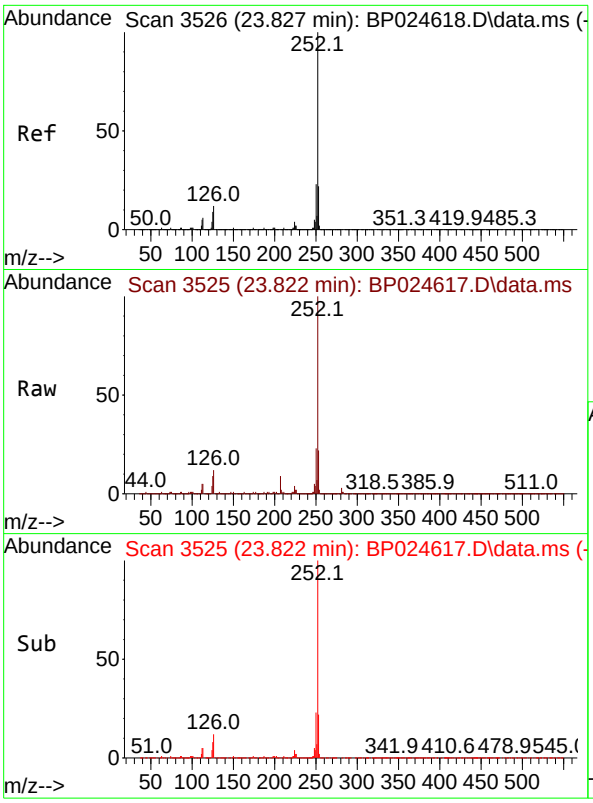


#88
Benzo(b)fluoranthene
Concen: 20.134 ng
RT: 23.757 min Scan# 3514
Delta R.T. 0.000 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:252 Resp: 979873

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	8.7	7.5	11.3



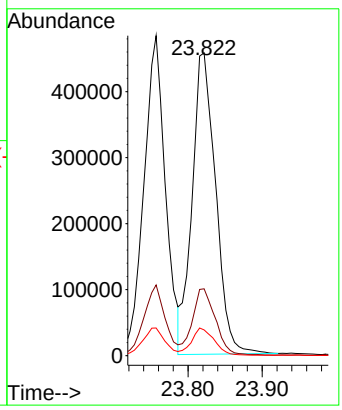


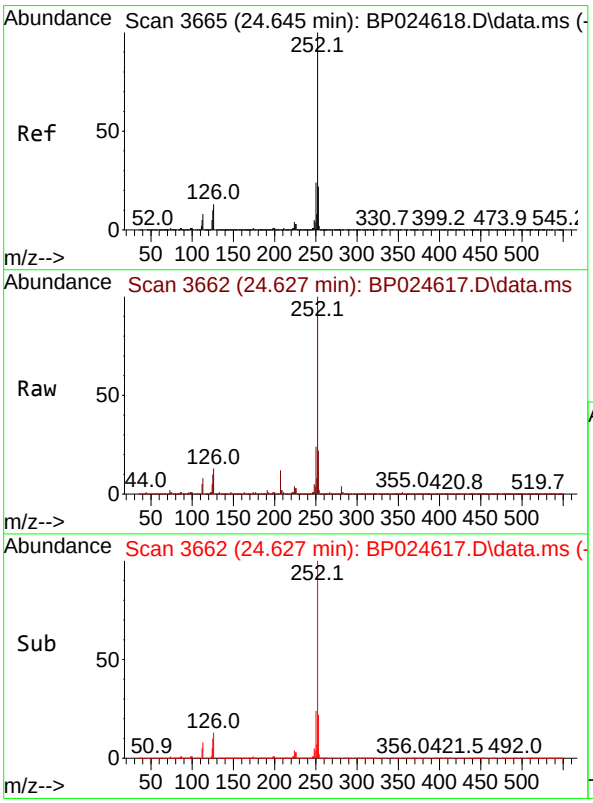
#89
Benzo(k)fluoranthene
Concen: 20.047 ng
RT: 23.822 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:252 Resp: 1005349

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	8.5	7.0	10.4

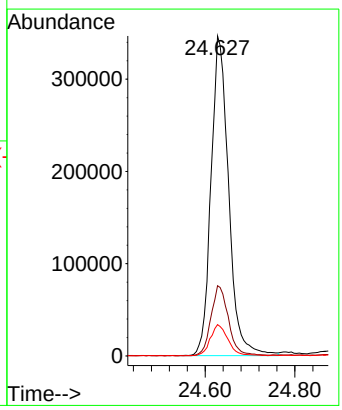


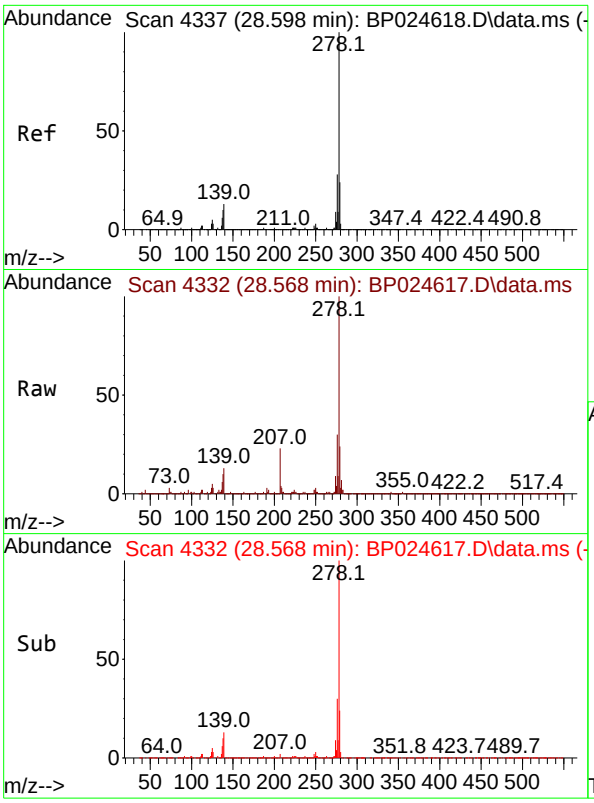


#90
Benzo(a)pyrene
Concen: 20.234 ng
RT: 24.627 min Scan# 3662
Delta R.T. -0.017 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:252 Resp: 945764

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	9.8	8.1	12.1



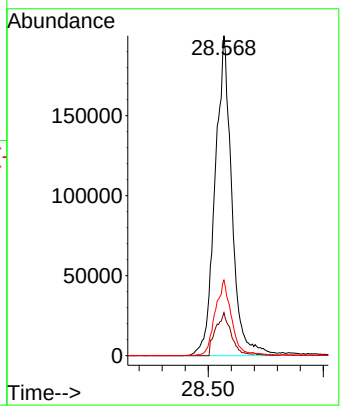


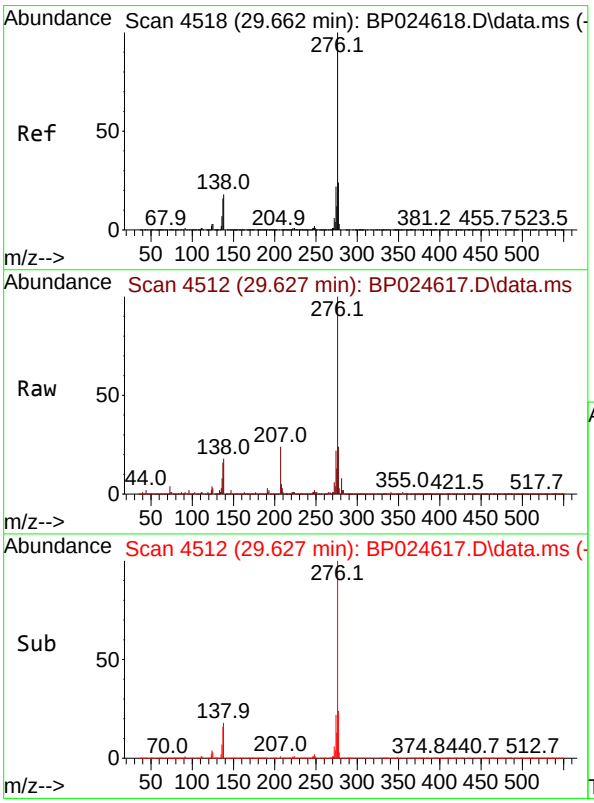
#91
Dibenzo(a,h)anthracene
Concen: 19.966 ng
RT: 28.568 min Scan# 4
Delta R.T. -0.029 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Instrument :
BNA_P
ClientSampleId :
SSTDICC020

Tgt Ion:278 Resp: 1008288

Ion	Ratio	Lower	Upper
278	100		
139	13.5	10.2	15.4
279	23.6	19.0	28.4

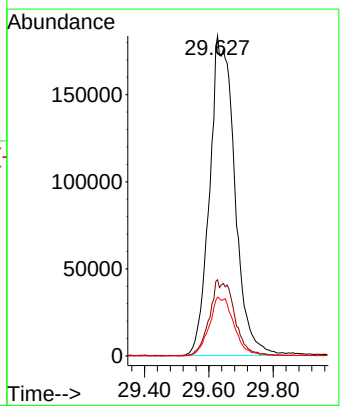




#92
Benzo(g,h,i)perylene
Concen: 19.751 ng
RT: 29.627 min Scan# 4512
Delta R.T. -0.035 min
Lab File: BP024617.D
Acq: 13 May 2025 12:43

Tgt Ion:276 Resp: 991852

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.4
138	18.4	14.4	21.6



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024618.D
Acq On : 13 May 2025 13:24
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Quant Time: May 13 16:06:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.663	152	120950	20.000	ng	0.00
21) Naphthalene-d8	10.434	136	540452	20.000	ng	0.00
39) Acenaphthene-d10	14.304	164	362458	20.000	ng	0.00
64) Phenanthrene-d10	17.098	188	717362	20.000	ng	0.00
76) Chrysene-d12	21.521	240	810498	20.000	ng	0.00
86) Perylene-d12	24.804	264	929890	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	534477	75.581	ng	0.00
7) Phenol-d6	6.852	99	712342	78.928	ng	0.00
23) Nitrobenzene-d5	8.810	82	826567	77.275	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	467808	76.132	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	2076354	75.051	ng	0.00
79) Terphenyl-d14	19.810	244	3647961	77.176	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	3.228	88	122181	36.795	ng	100
3) Pyridine	3.622	79	289809	39.360	ng	100
4) n-Nitrosodimethylamine	3.534	42	125087	38.481	ng	100
6) Aniline	7.005	93	463675	39.792	ng	100
8) 2-Chlorophenol	7.240	128	315079	39.249	ng	100
9) Benzaldehyde	6.822	77	237579	40.735	ng	100
10) Phenol	6.881	94	364948	39.178	ng	100
11) bis(2-Chloroethyl)ether	7.099	93	293331	38.322	ng	100
12) 1,3-Dichlorobenzene	7.552	146	348242	37.705	ng	100
13) 1,4-Dichlorobenzene	7.699	146	355533	38.274	ng	100
14) 1,2-Dichlorobenzene	8.010	146	344980	38.112	ng	100
15) Benzyl Alcohol	7.905	79	277892	40.518	ng	100
16) 2,2'-oxybis(1-Chloropr...	8.187	45	354872	38.713	ng	100
17) 2-Methylphenol	8.110	107	265962	39.808	ng	100
18) Hexachloroethane	8.728	117	133224	37.426	ng	100
19) n-Nitroso-di-n-propyla...	8.457	70	253553	40.613	ng	100
20) 3+4-Methylphenols	8.434	107	366564	40.334	ng	100
22) Acetophenone	8.475	105	521603	38.637	ng	100
24) Nitrobenzene	8.852	77	363767	38.645	ng	100
25) Isophorone	9.375	82	727081	39.187	ng	100
26) 2-Nitrophenol	9.563	139	185587	40.236	ng	100
27) 2,4-Dimethylphenol	9.628	122	322227	39.623	ng	100
28) bis(2-Chloroethoxy)met...	9.851	93	430958	38.877	ng	100
29) 2,4-Dichlorophenol	10.093	162	314830	39.950	ng	100
30) 1,2,4-Trichlorobenzene	10.299	180	330659	37.234	ng	100
31) Naphthalene	10.481	128	1059316	37.824	ng	100
32) Benzoic acid	9.775	122	180610	34.055	ng	100
33) 4-Chloroaniline	10.599	127	452150	40.008	ng	100
34) Hexachlorobutadiene	10.763	225	213978	37.194	ng	100
35) Caprolactam	11.387	113	118047	41.426	ng	100
36) 4-Chloro-3-methylphenol	11.734	107	385077	40.069	ng	100
37) 2-Methylnaphthalene	12.093	142	692133	38.166	ng	100
38) 1-Methylnaphthalene	12.316	142	745849	38.439	ng	100
40) 1,2,4,5-Tetrachloroben...	12.469	216	398230	37.835	ng	100
41) Hexachlorocyclopentadiene	12.445	237	258329	40.476	ng	100
43) 2,4,6-Trichlorophenol	12.716	196	268675	39.410	ng	100

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024618.D
Acq On : 13 May 2025 13:24
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Quant Time: May 13 16:06:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration

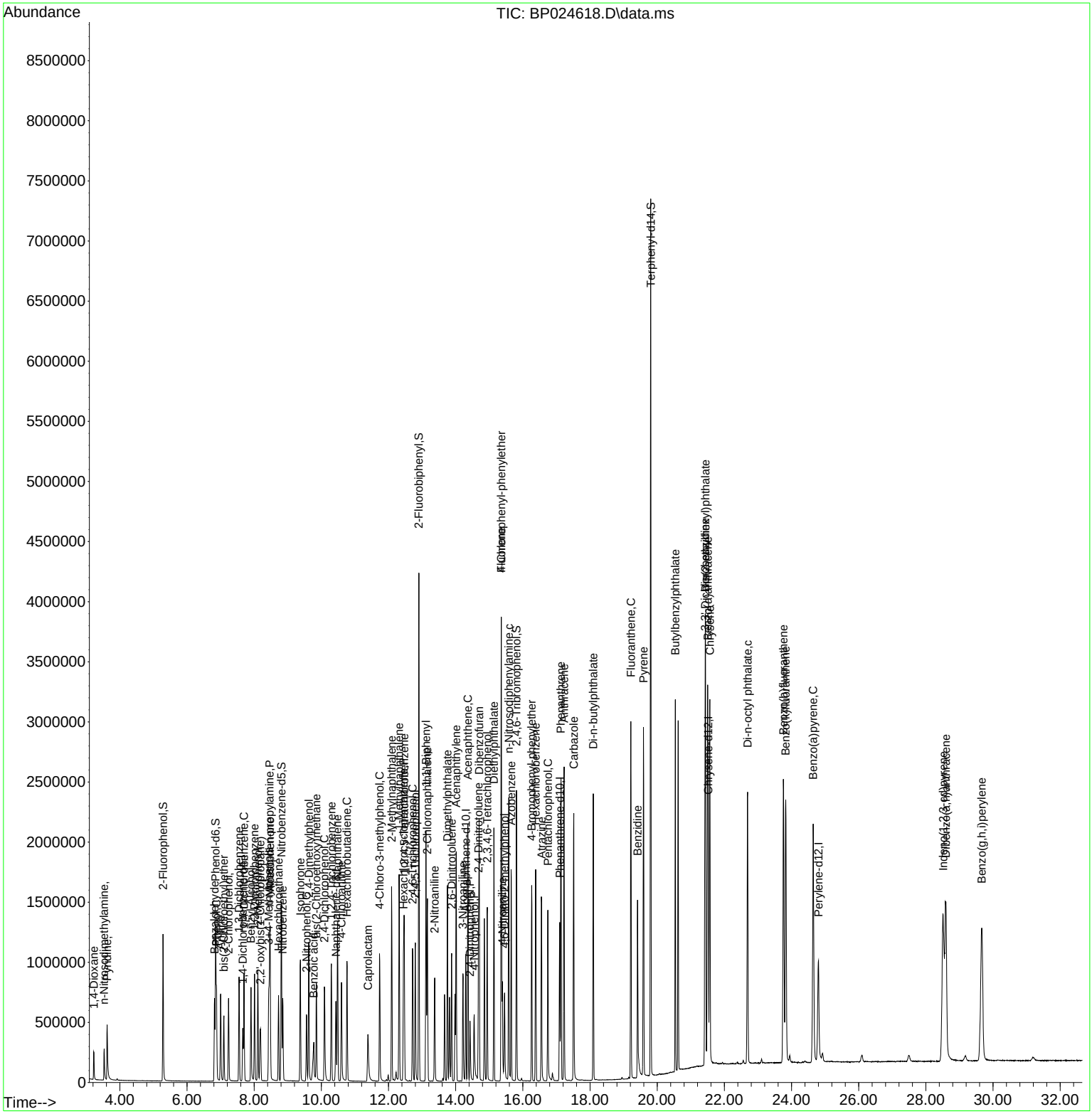
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	293079	38.621	ng	100
46) 1,1'-Biphenyl	13.116	154	1002344	37.415	ng	100
47) 2-Chloronaphthalene	13.157	162	771952	37.792	ng	100
48) 2-Nitroaniline	13.375	65	242485	40.097	ng	100
49) Acenaphthylene	14.016	152	1307740	38.257	ng	100
50) Dimethylphthalate	13.757	163	1051056	38.045	ng	100
51) 2,6-Dinitrotoluene	13.881	165	226086	38.749	ng	100
52) Acenaphthene	14.363	154	745335	37.928	ng	100
53) 3-Nitroaniline	14.216	138	246561	41.386	ng	100
54) 2,4-Dinitrophenol	14.428	184	124517	37.537	ng	100
55) Dibenzofuran	14.698	168	1183806	37.767	ng	100
56) 4-Nitrophenol	14.551	139	186112	38.408	ng	100
57) 2,4-Dinitrotoluene	14.681	165	329156	40.015	ng	100
58) Fluorene	15.357	166	968487	37.893	ng	100
59) 2,3,4,6-Tetrachlorophenol	14.939	232	274384	38.977	ng	100
60) Diethylphthalate	15.139	149	1046478	37.478	ng	100
61) 4-Chlorophenyl-phenyle...	15.357	204	475327	37.292	ng	100
62) 4-Nitroaniline	15.392	138	239212	41.240	ng	100
63) Azobenzene	15.651	77	906274	37.940	ng	100
65) 4,6-Dinitro-2-methylph...	15.457	198	184593	39.837	ng	100
66) n-Nitrosodiphenylamine	15.581	169	851188	38.630	ng	100
67) 4-Bromophenyl-phenylether	16.263	248	323558	38.277	ng	100
68) Hexachlorobenzene	16.381	284	403916	37.605	ng	100
69) Atrazine	16.557	200	312226	38.666	ng	100
70) Pentachlorophenol	16.745	266	246828	40.913	ng	100
71) Phenanthrene	17.133	178	1507602	37.804	ng	100
72) Anthracene	17.228	178	1542275	38.439	ng	100
73) Carbazole	17.516	167	1436294	39.551	ng	100
74) Di-n-butylphthalate	18.098	149	1807097	38.692	ng	100
75) Fluoranthene	19.216	202	1794046	38.486	ng	100
77) Benzidine	19.416	184	907109	40.774	ng	100
78) Pyrene	19.592	202	1869519	38.497	ng	100
80) Butylbenzylphthalate	20.539	149	854913	39.583	ng	100
81) Benzo(a)anthracene	21.504	228	1957632	38.466	ng	100
82) 3,3'-Dichlorobenzidine	21.427	252	773866	40.940	ng	100
83) Chrysene	21.569	228	1833959	38.014	ng	100
84) Bis(2-ethylhexyl)phtha...	21.439	149	1240956	39.091	ng	100
85) Di-n-octyl phthalate	22.692	149	2074694	39.965	ng	100
87) Indeno(1,2,3-cd)pyrene	28.515	276	2648648	39.003	ng	100
88) Benzo(b)fluoranthene	23.757	252	2050806	38.531	ng	100
89) Benzo(k)fluoranthene	23.827	252	2120721	38.667	ng	100
90) Benzo(a)pyrene	24.645	252	1979017	38.714	ng	100
91) Dibenzo(a,h)anthracene	28.598	278	2170712	39.304	ng	100
92) Benzo(g,h,i)perylene	29.662	276	2132921	38.836	ng	100

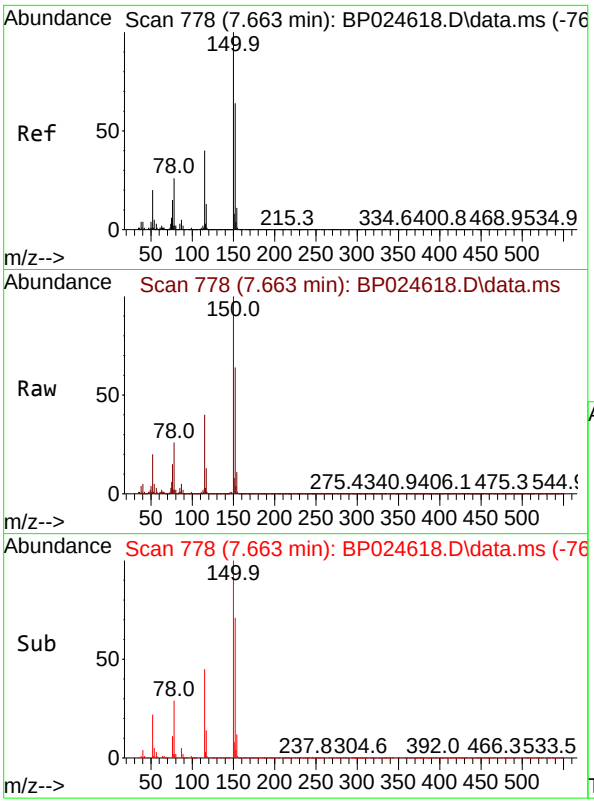
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024618.D
Acq On : 13 May 2025 13:24
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Quant Time: May 13 16:06:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 15:55:25 2025
Response via : Initial Calibration



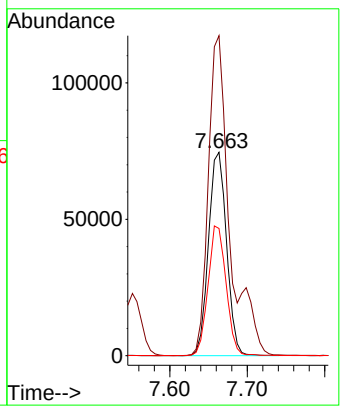


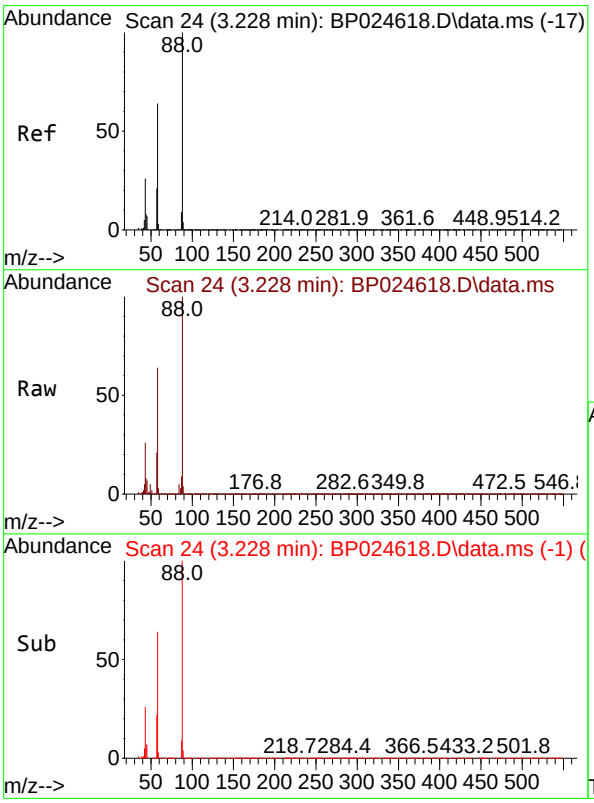
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.663 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 120950

Ion	Ratio	Lower	Upper
152	100		
150	157.4	125.9	188.9
115	62.6	50.1	75.1

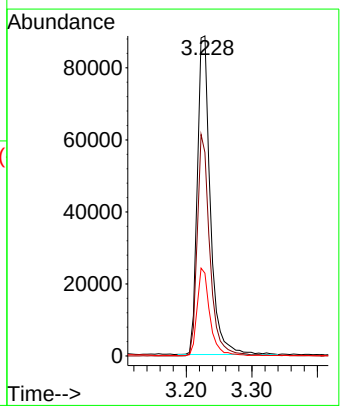


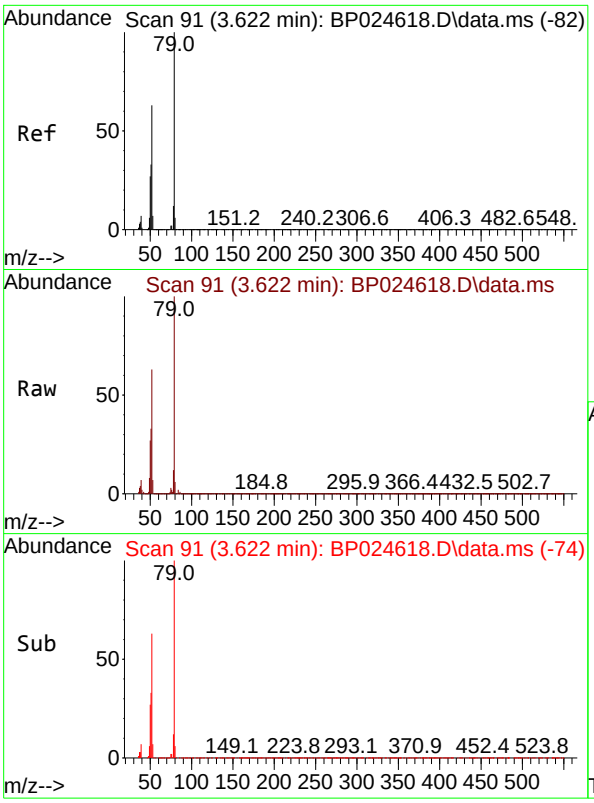


#2
1,4-Dioxane
Concen: 36.795 ng
RT: 3.228 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 88 Resp: 122181

Ion	Ratio	Lower	Upper
88	100		
58	67.5	54.0	81.0
43	26.7	21.4	32.0



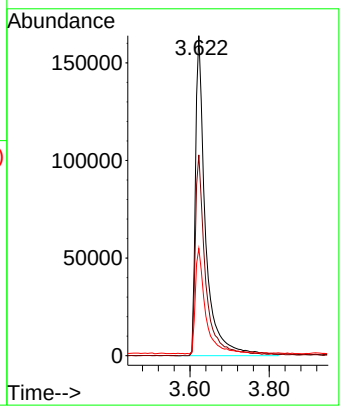


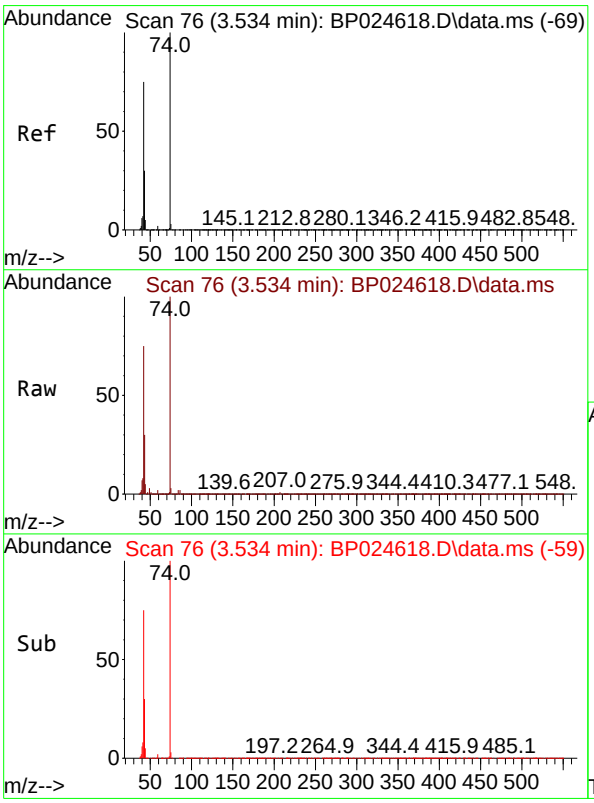
#3
Pyridine
Concen: 39.360 ng
RT: 3.622 min Scan# 91
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 289809

Ion	Ratio	Lower	Upper
79	100		
52	62.7	50.2	75.2
51	33.5	26.8	40.2

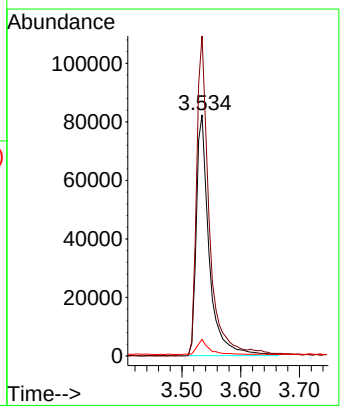


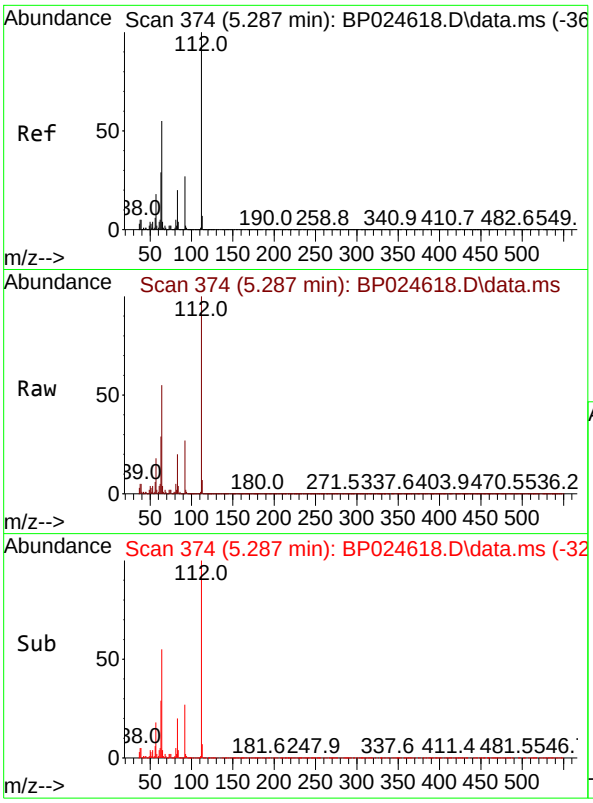


#4
n-Nitrosodimethylamine
Concen: 38.481 ng
RT: 3.534 min Scan# 76
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 42 Resp: 125087

Ion	Ratio	Lower	Upper
42	100		
74	132.7	106.2	159.2
44	6.8	5.4	8.2



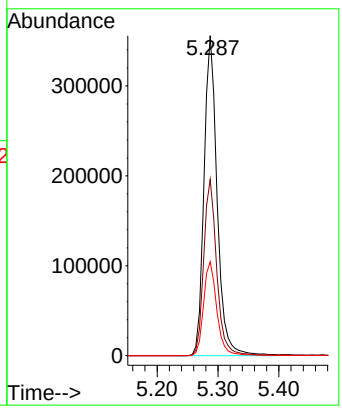


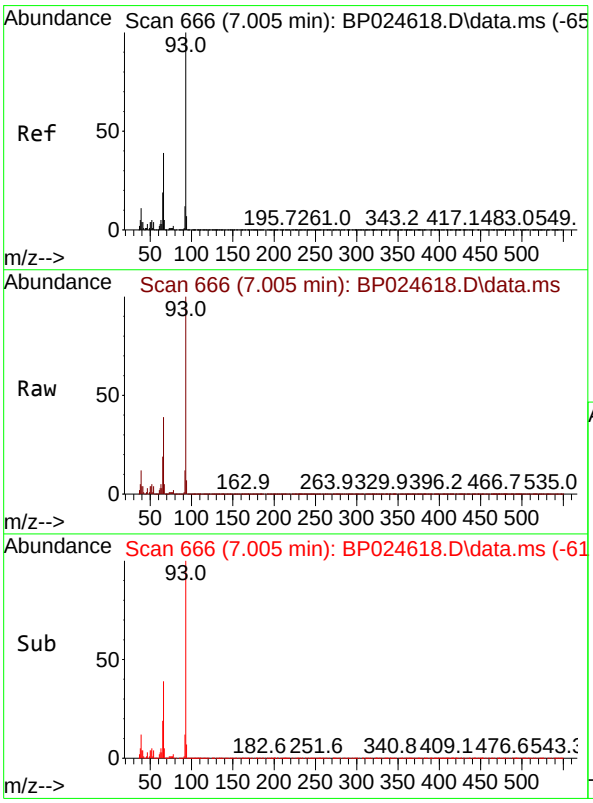
#5
2-Fluorophenol
Concen: 75.581 ng
RT: 5.287 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:112 Resp: 534477

Ion	Ratio	Lower	Upper
112	100		
64	55.1	44.1	66.1
63	29.4	23.5	35.3

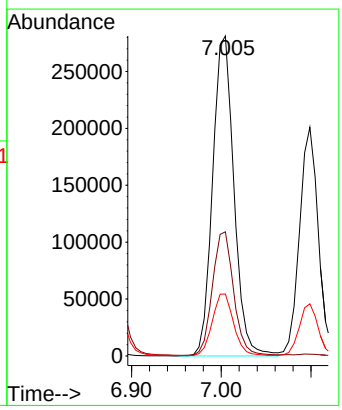


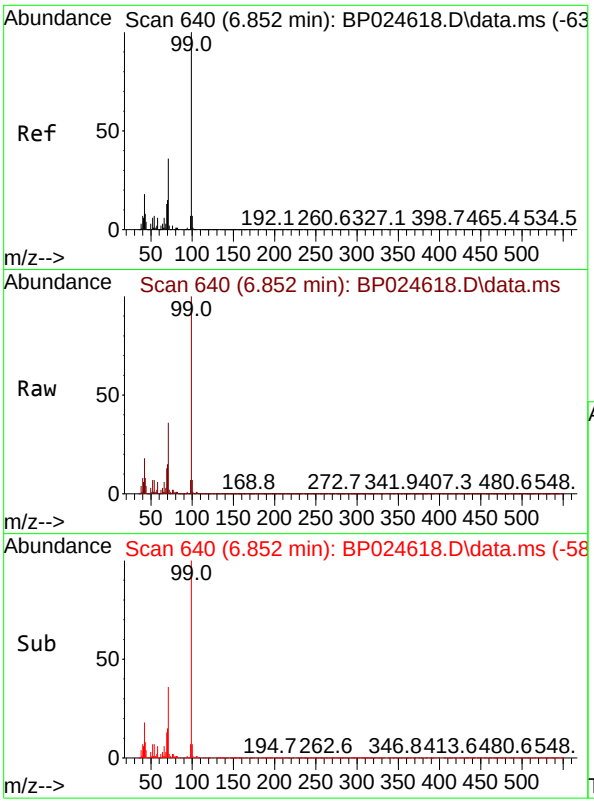


#6
Aniline
Concen: 39.792 ng
RT: 7.005 min Scan# 666
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 93 Resp: 463675

Ion	Ratio	Lower	Upper
93	100		
66	38.8	31.0	46.6
65	19.4	15.5	23.3



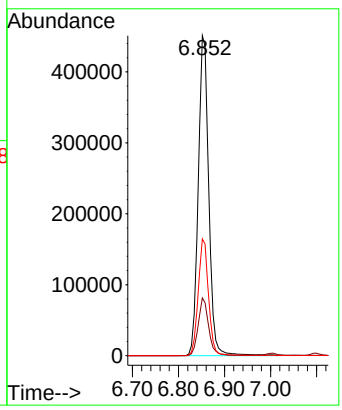


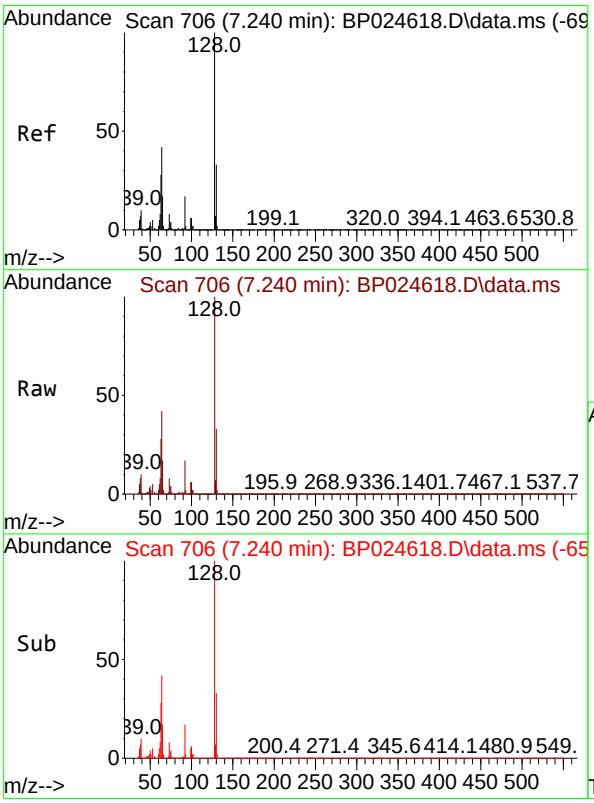
#7
Phenol-d6
Concen: 78.928 ng
RT: 6.852 min Scan# 64
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 99 Resp: 712342

Ion	Ratio	Lower	Upper
99	100		
42	18.0	14.4	21.6
71	36.5	29.2	43.8

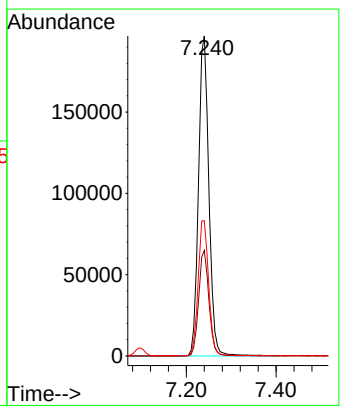


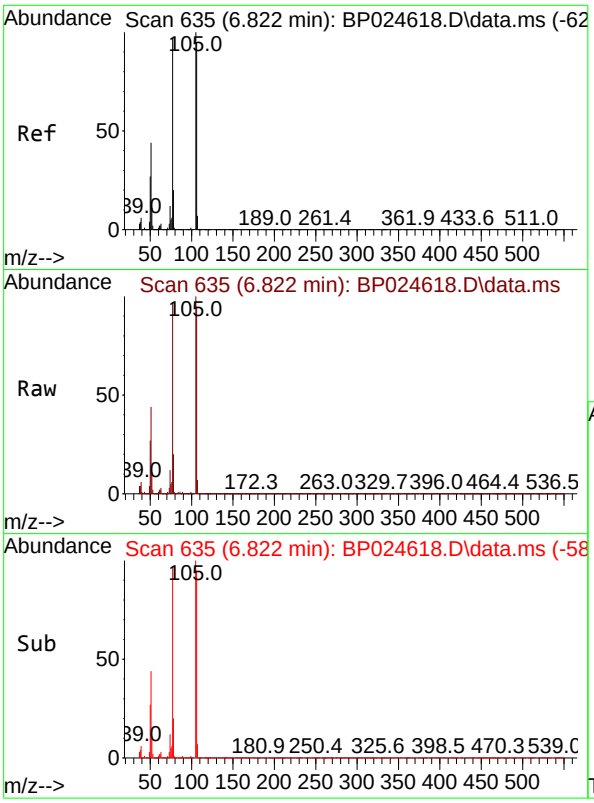


#8
2-Chlorophenol
Concen: 39.249 ng
RT: 7.240 min Scan# 706
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:128 Resp: 315079

Ion	Ratio	Lower	Upper
128	100		
130	33.0	13.0	53.0
64	42.3	22.3	62.3



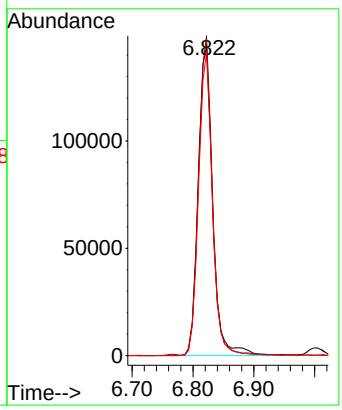


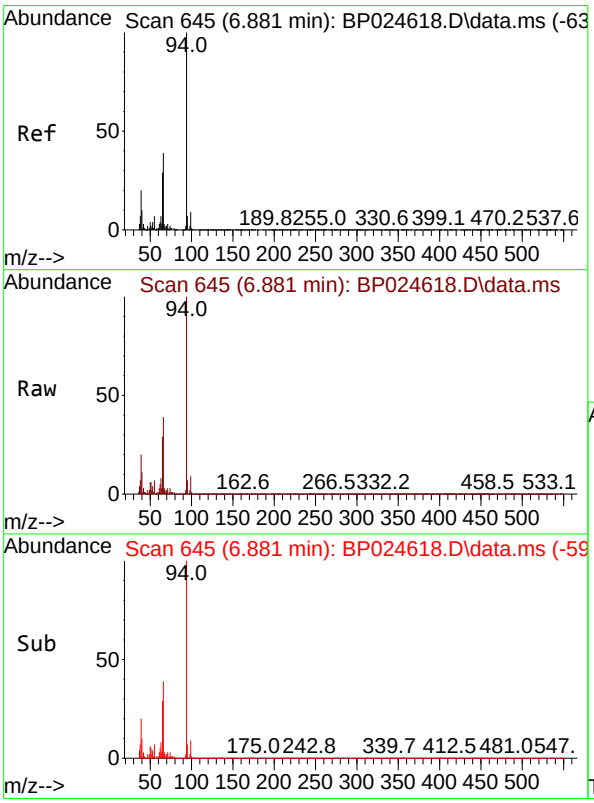
#9
Benzaldehyde
Concen: 40.735 ng
RT: 6.822 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 237579

Ion	Ratio	Lower	Upper
77	100		
105	103.3	83.3	123.3
106	98.0	78.0	118.0

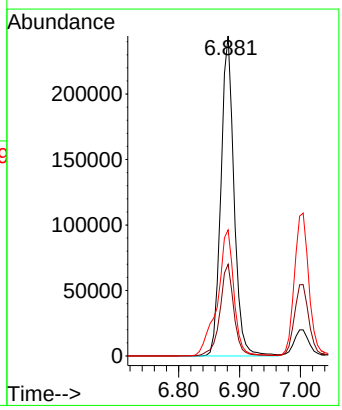


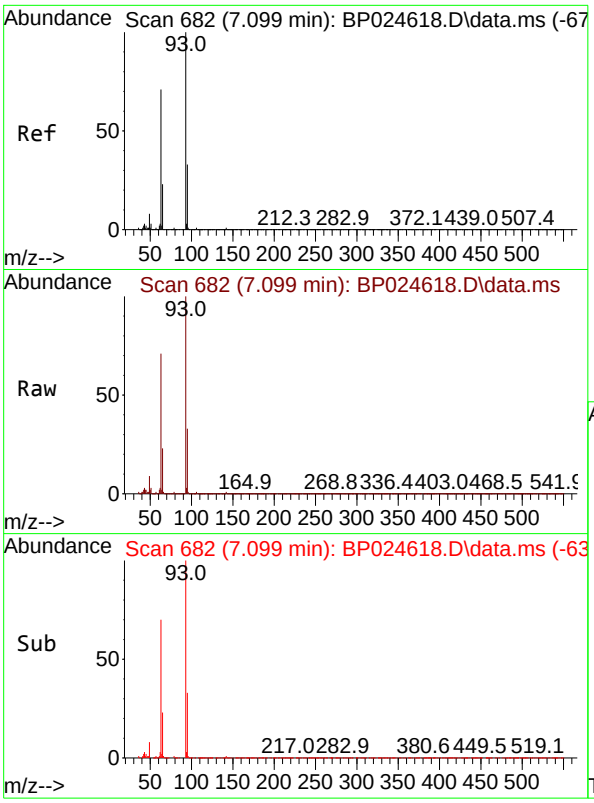


#10
Phenol
Concen: 39.178 ng
RT: 6.881 min Scan# 645
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 94 Resp: 364948

Ion	Ratio	Lower	Upper
94	100		
65	28.7	8.7	48.7
66	39.4	19.4	59.4



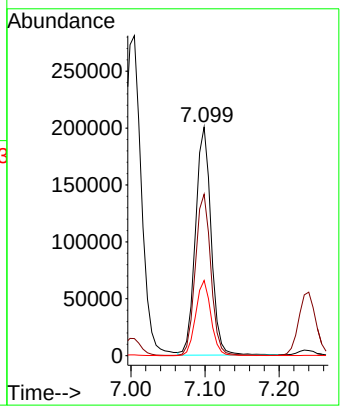


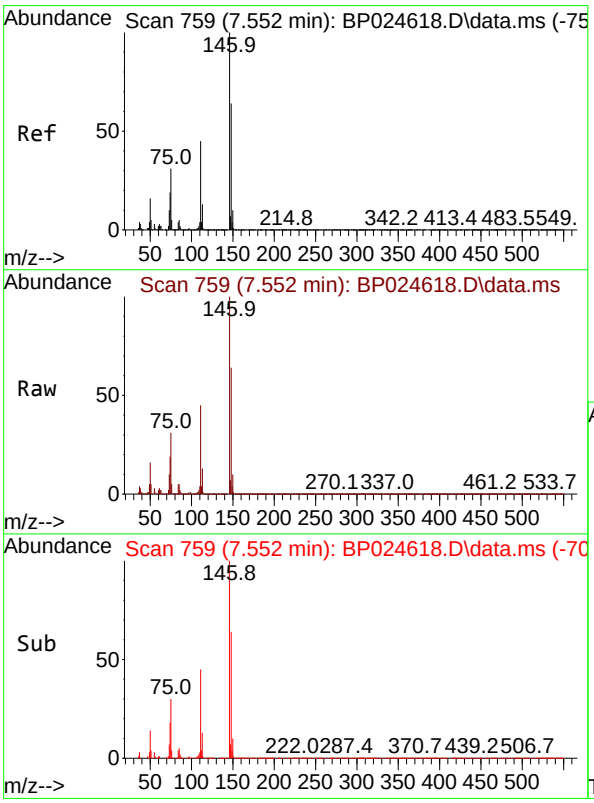
#11
bis(2-Chloroethyl)ether
Concen: 38.322 ng
RT: 7.099 min Scan# 6
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 93 Resp: 293331

Ion	Ratio	Lower	Upper
93	100		
63	70.6	50.6	90.6
95	32.9	12.9	52.9

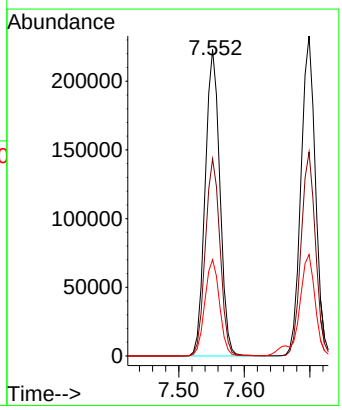


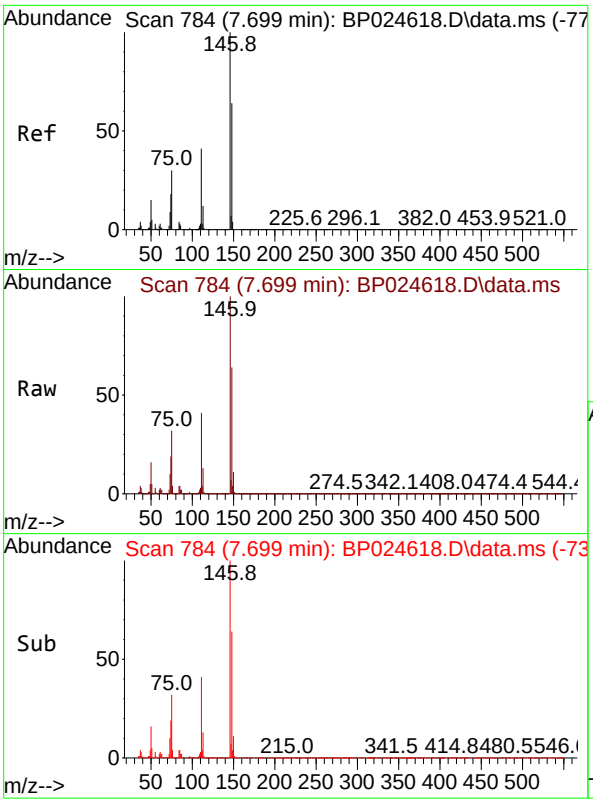


#12
1,3-Dichlorobenzene
Concen: 37.705 ng
RT: 7.552 min Scan# 759
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:146 Resp: 348242

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.4	77.2
75	31.5	25.2	37.8



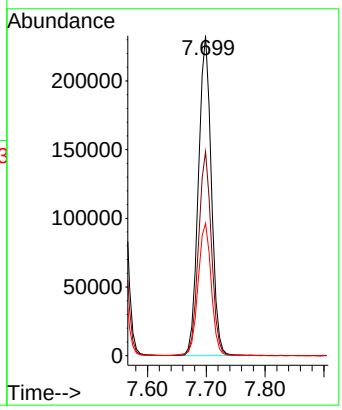


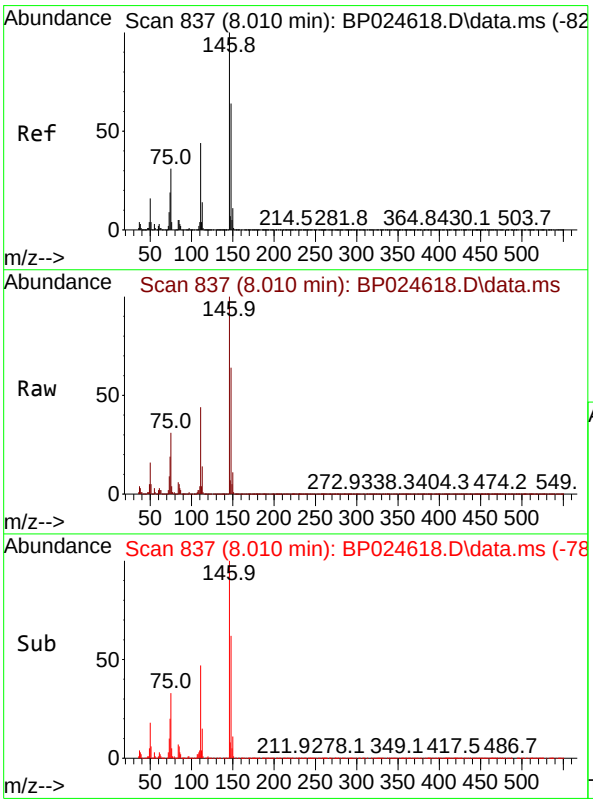
#13
1,4-Dichlorobenzene
Concen: 38.274 ng
RT: 7.699 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:146 Resp: 355533

Ion	Ratio	Lower	Upper
146	100		
148	63.8	51.0	76.6
111	41.3	33.0	49.6

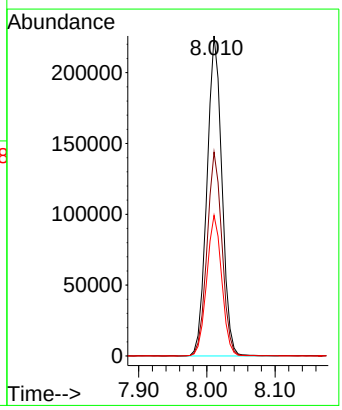


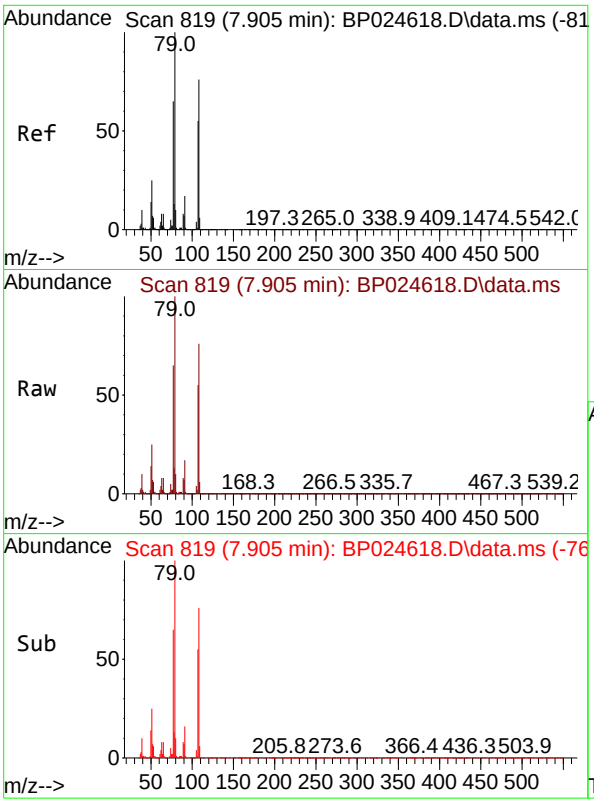


#14
1,2-Dichlorobenzene
Concen: 38.112 ng
RT: 8.010 min Scan# 837
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:146 Resp: 344980

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.0	76.4
111	44.0	35.2	52.8



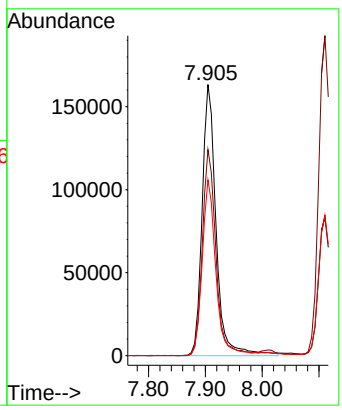


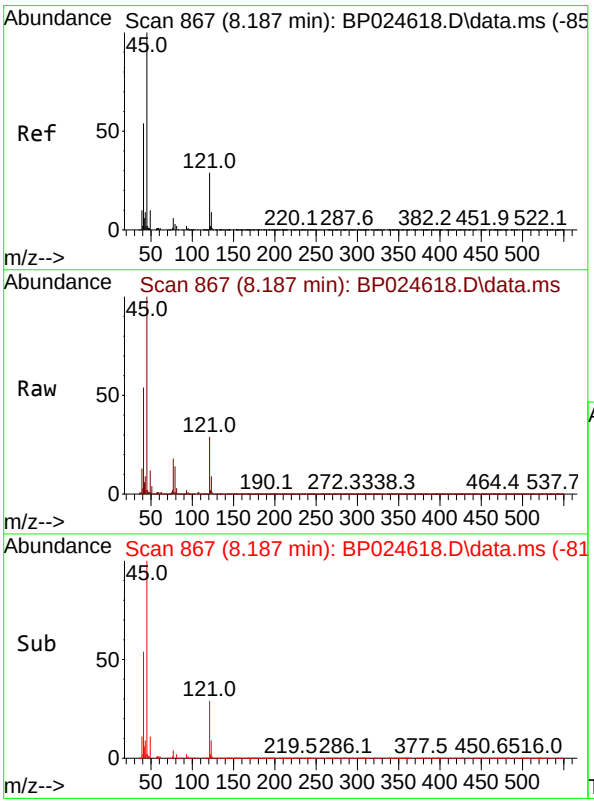
#15
Benzyl Alcohol
Concen: 40.518 ng
RT: 7.905 min Scan# 81
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 79 Resp: 277892

Ion	Ratio	Lower	Upper
79	100		
108	76.0	60.8	91.2
77	64.9	51.9	77.9

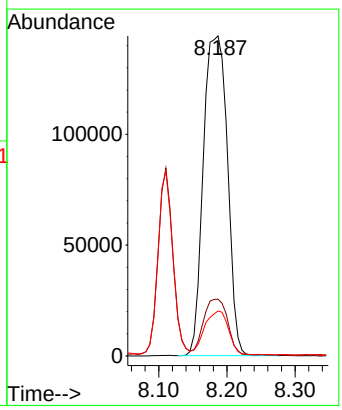


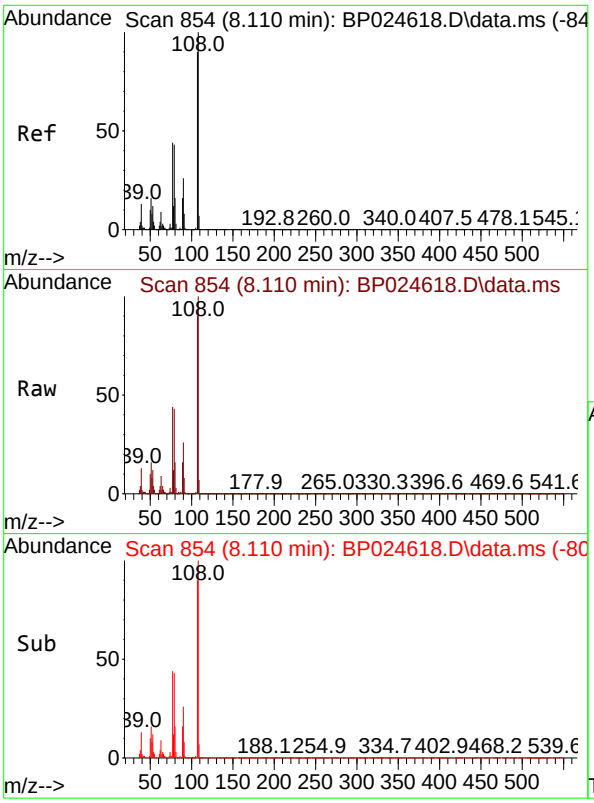


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.713 ng
RT: 8.187 min Scan# 867
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 45 Resp: 354872

Ion	Ratio	Lower	Upper
45	100		
77	17.7	0.0	37.7
79	14.0	0.0	34.0



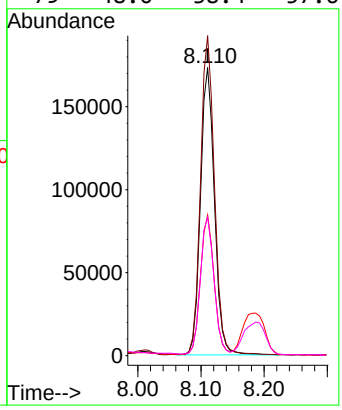


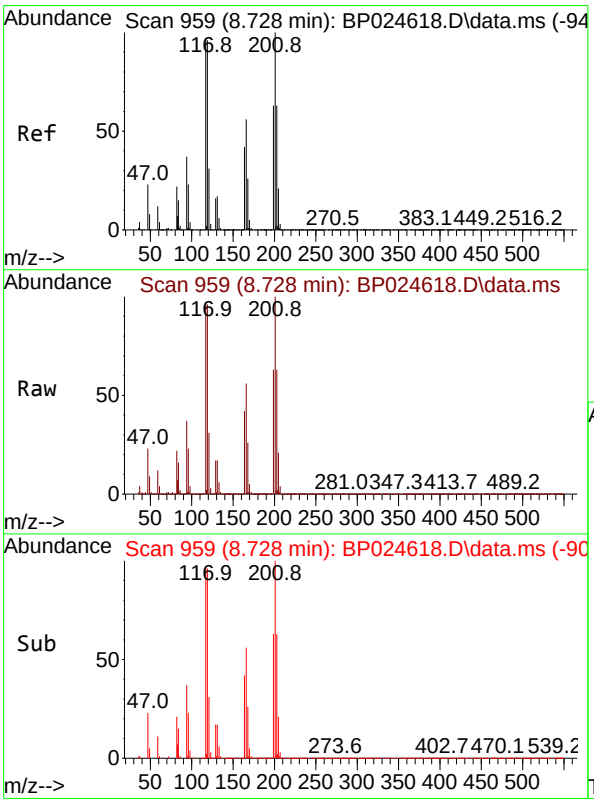
#17
2-Methylphenol
Concen: 39.808 ng
RT: 8.110 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:107 Resp: 265962

Ion	Ratio	Lower	Upper
107	100		
108	111.1	88.9	133.3
77	48.8	39.0	58.6
79	48.0	38.4	57.6

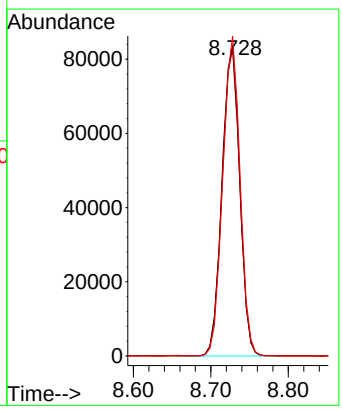


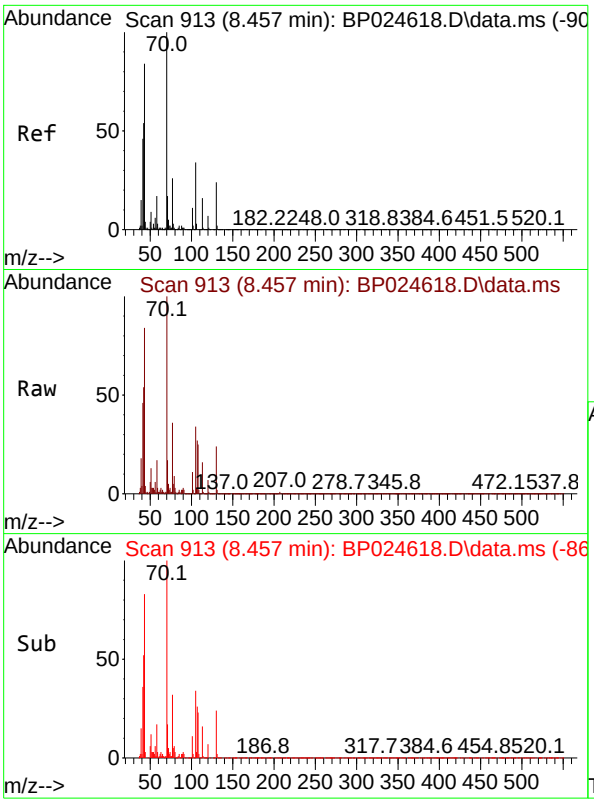


#18
Hexachloroethane
Concen: 37.426 ng
RT: 8.728 min Scan# 959
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:117 Resp: 133224

Ion	Ratio	Lower	Upper
117	100		
119	99.2	79.4	119.0
201	103.4	82.7	124.1



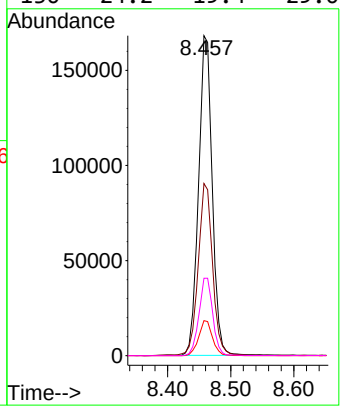


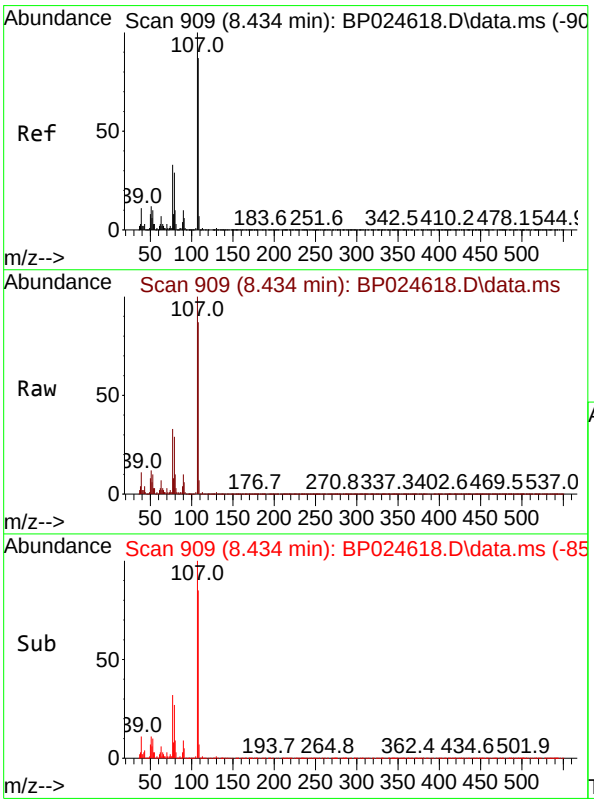
#19
n-Nitroso-di-n-propylamine
Concen: 40.613 ng
RT: 8.457 min Scan# 91
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 70 Resp: 253553

Ion	Ratio	Lower	Upper
70	100		
42	53.8	43.0	64.6
101	10.9	8.7	13.1
130	24.2	19.4	29.0

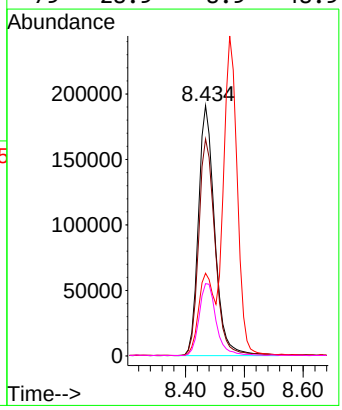


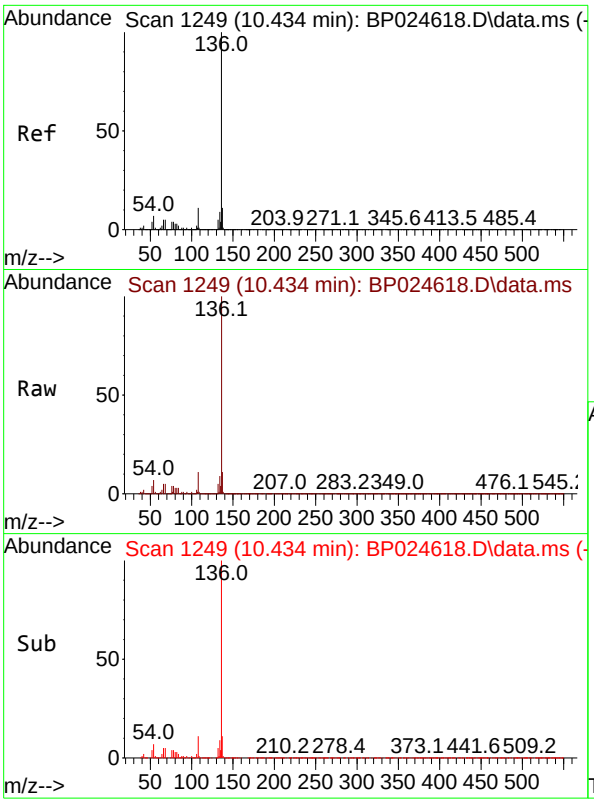


#20
3+4-Methylphenols
Concen: 40.334 ng
RT: 8.434 min Scan# 909
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:107 Resp: 366564

Ion	Ratio	Lower	Upper
107	100		
108	86.7	66.7	106.7
77	33.1	13.1	53.1
79	28.9	8.9	48.9



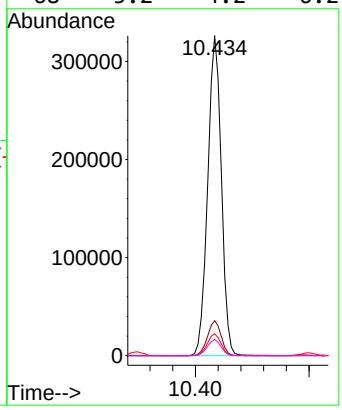


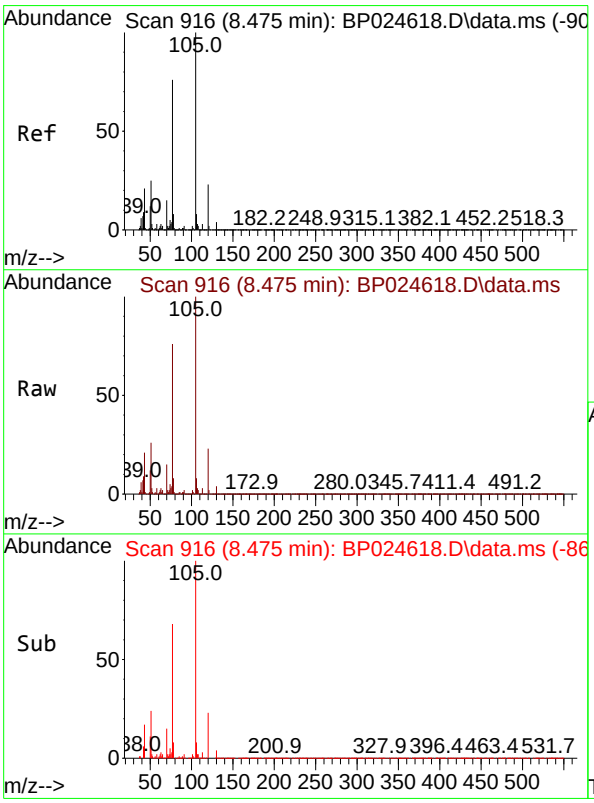
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:136 Resp: 540452

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	6.9	5.5	8.3
68	5.2	4.2	6.2

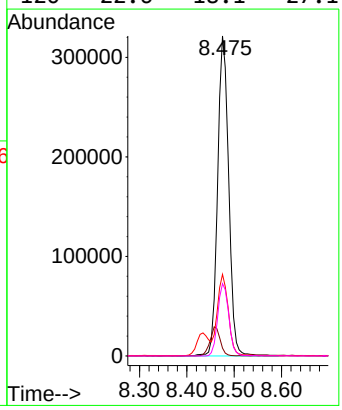


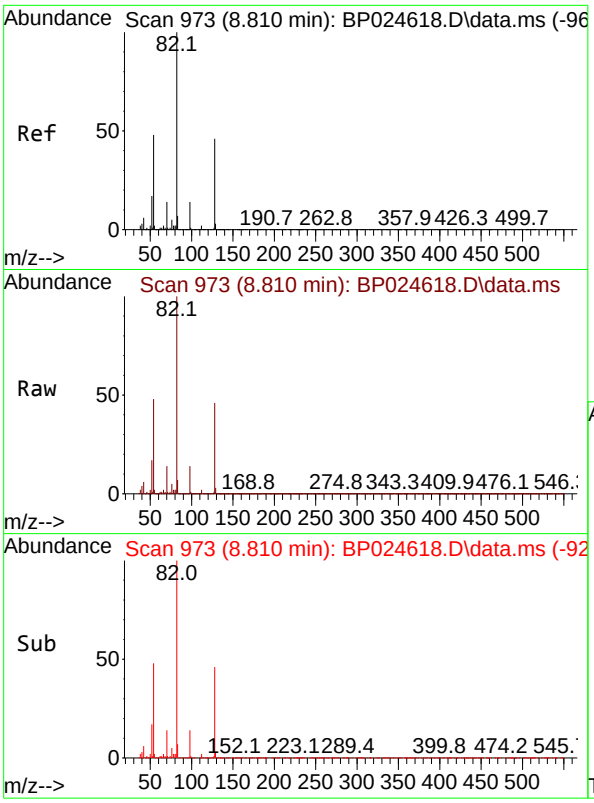


#22
Acetophenone
Concen: 38.637 ng
RT: 8.475 min Scan# 916
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:105 Resp: 521603

Ion	Ratio	Lower	Upper
105	100		
71	2.5	2.0	3.0
51	25.5	20.4	30.6
120	22.6	18.1	27.1



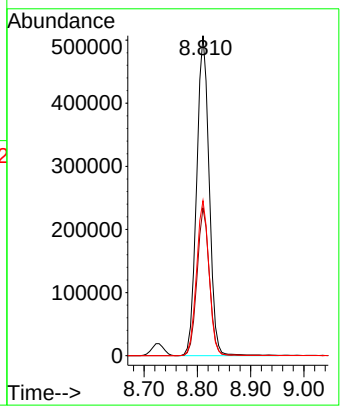


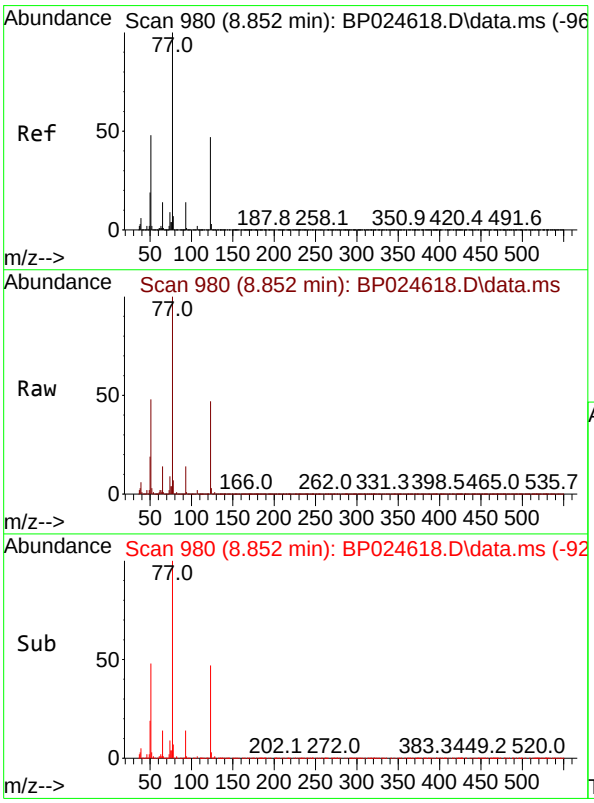
#23
Nitrobenzene-d5
Concen: 77.275 ng
RT: 8.810 min Scan# 9
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 826567

Ion	Ratio	Lower	Upper
82	100		
128	46.2	37.0	55.4
54	48.4	38.7	58.1

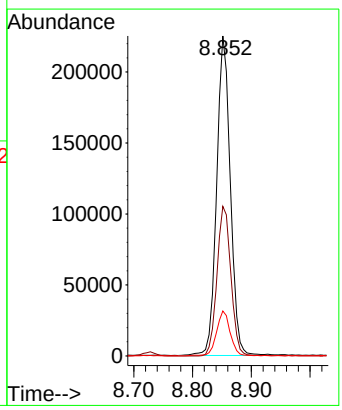


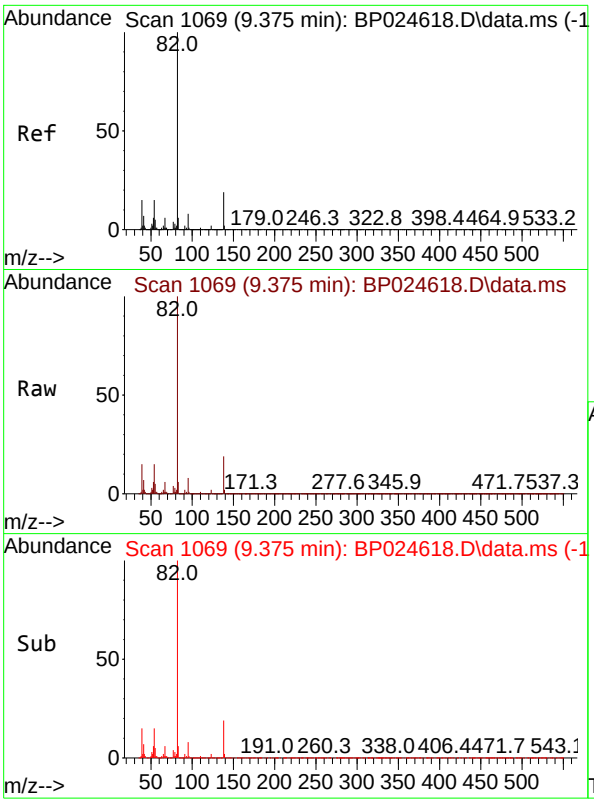


#24
Nitrobenzene
Concen: 38.645 ng
RT: 8.852 min Scan# 980
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 77 Resp: 363767

Ion	Ratio	Lower	Upper
77	100		
123	46.7	37.4	56.0
65	14.1	11.3	16.9



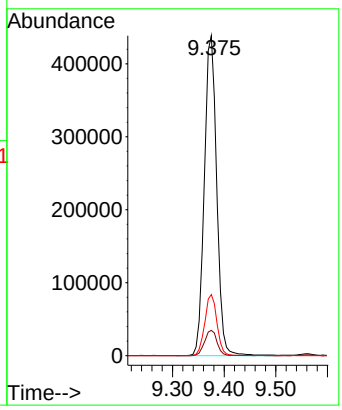


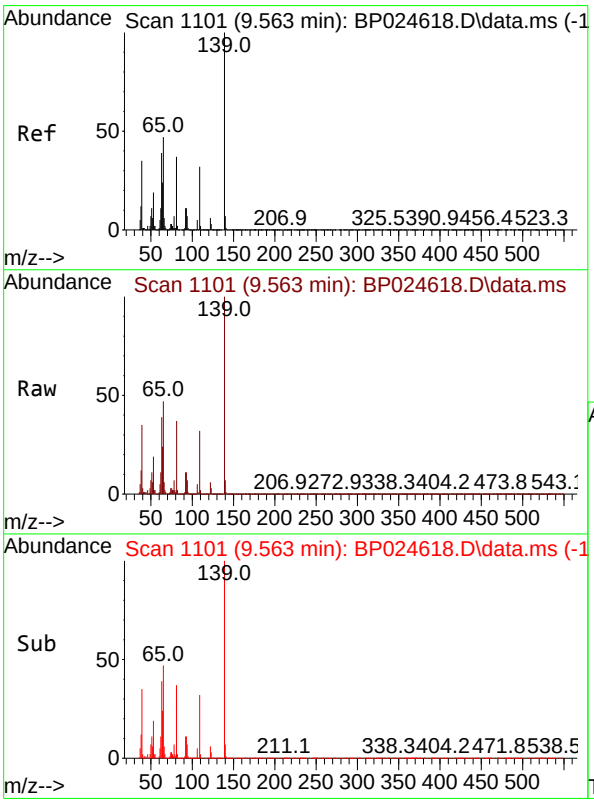
#25
Isophorone
Concen: 39.187 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 82 Resp: 727081

Ion	Ratio	Lower	Upper
82	100		
95	7.9	6.3	9.5
138	19.1	15.3	22.9

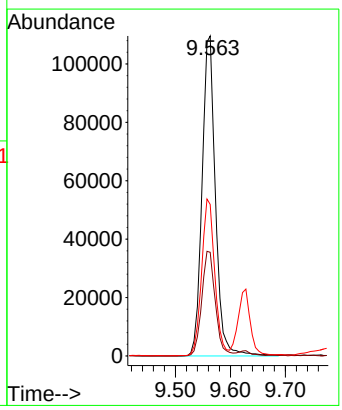


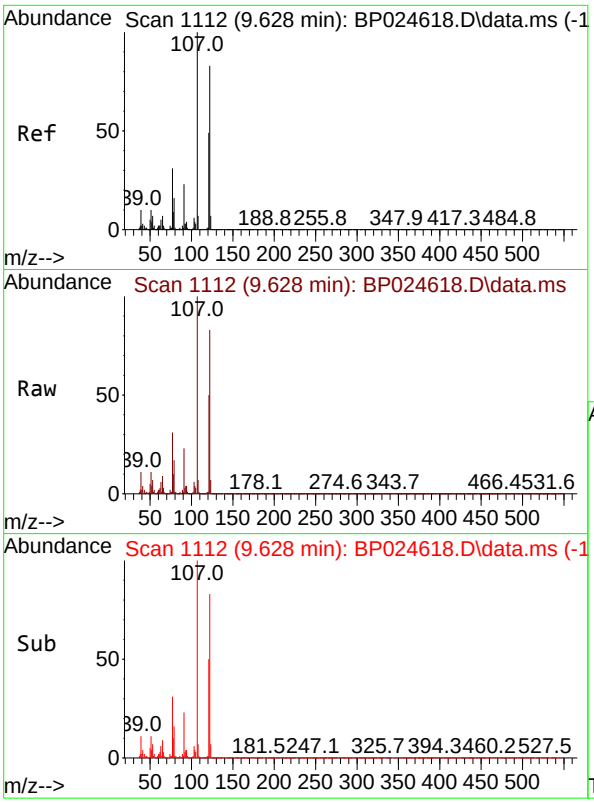


#26
2-Nitrophenol
Concen: 40.236 ng
RT: 9.563 min Scan# 1101
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:139 Resp: 185587

Ion	Ratio	Lower	Upper
139	100		
109	32.4	25.9	38.9
65	47.4	37.9	56.9



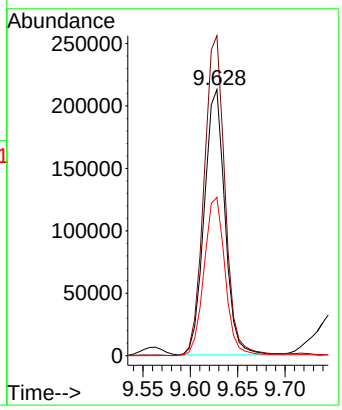


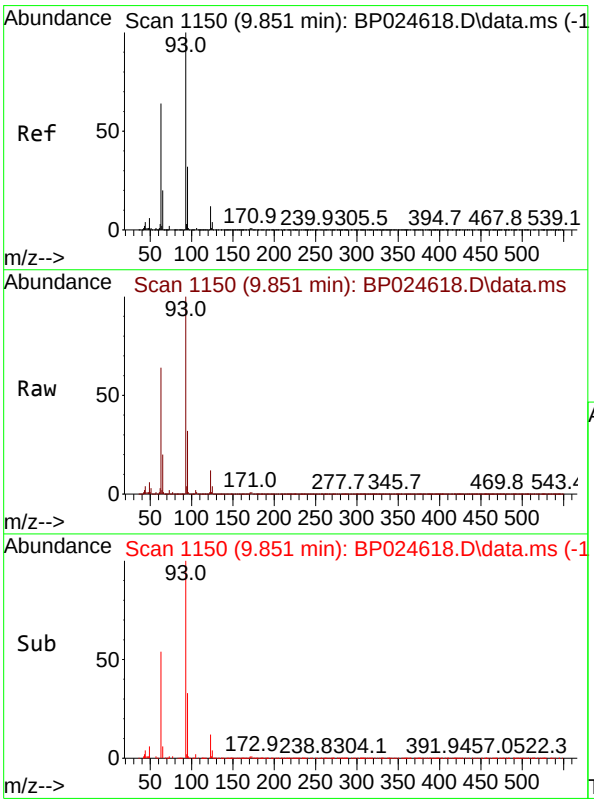
#27
2,4-Dimethylphenol
Concen: 39.623 ng
RT: 9.628 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:122 Resp: 322227

Ion	Ratio	Lower	Upper
122	100		
107	120.2	96.2	144.2
121	59.5	47.6	71.4

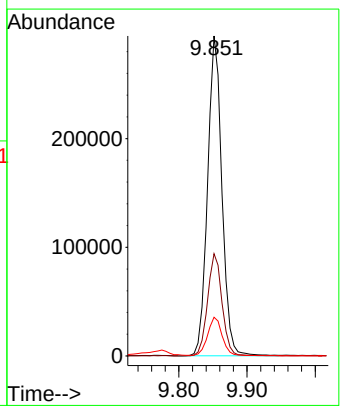


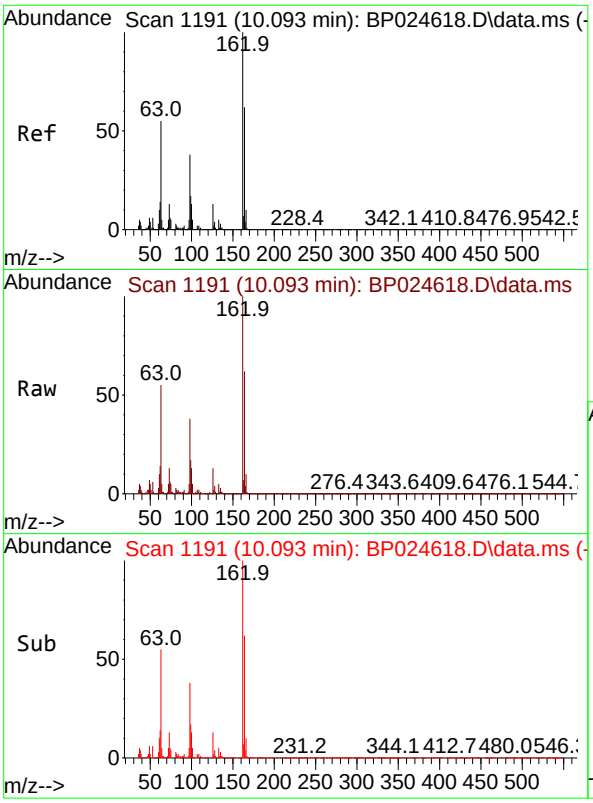


#28
bis(2-Chloroethoxy)methane
Concen: 38.877 ng
RT: 9.851 min Scan# 1150
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 93 Resp: 430958

Ion	Ratio	Lower	Upper
93	100		
95	31.9	25.5	38.3
123	12.1	9.7	14.5



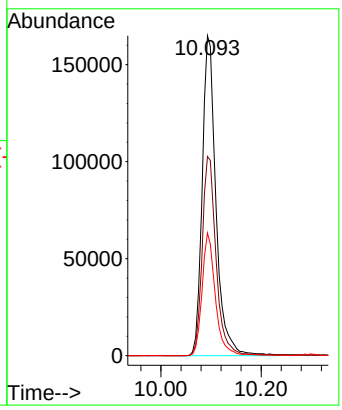


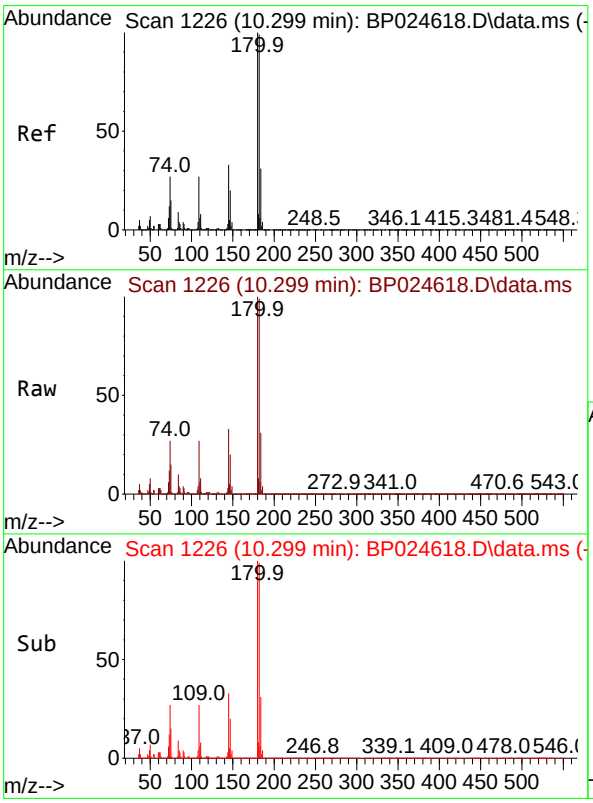
#29
2,4-Dichlorophenol
Concen: 39.950 ng
RT: 10.093 min Scan# 11
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 314830

Ion	Ratio	Lower	Upper
162	100		
164	62.3	42.3	82.3
98	38.4	18.4	58.4

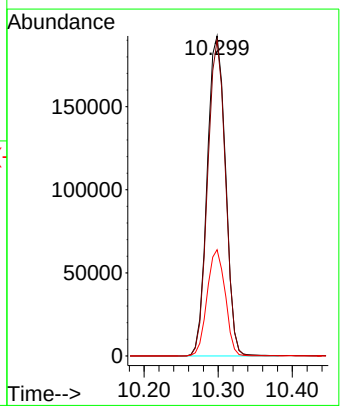


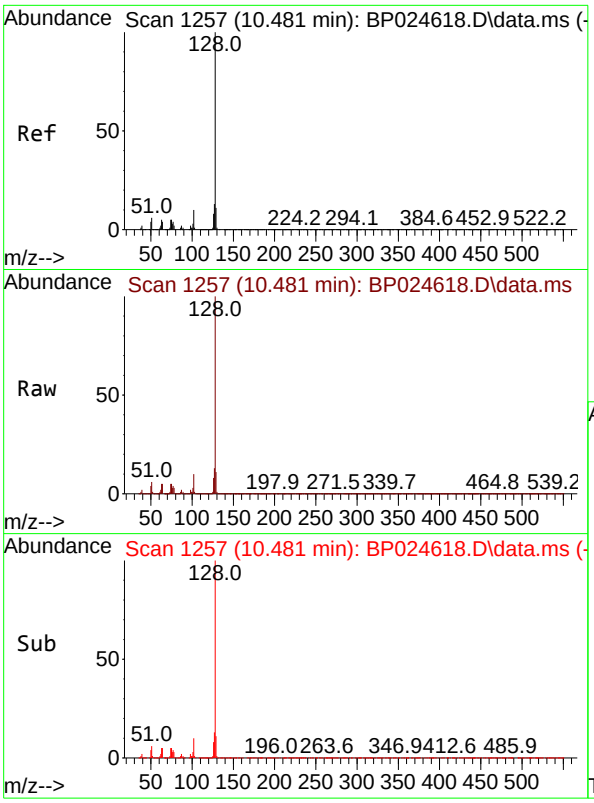


#30
1,2,4-Trichlorobenzene
Concen: 37.234 ng
RT: 10.299 min Scan# 1226
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:180 Resp: 330659

Ion	Ratio	Lower	Upper
180	100		
182	98.7	79.0	118.4
145	33.2	26.6	39.8



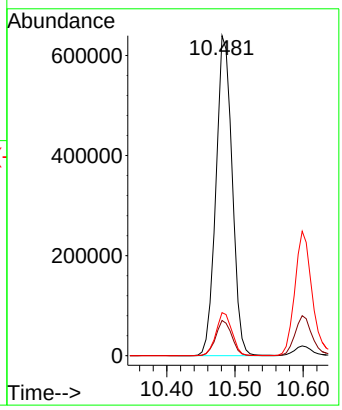


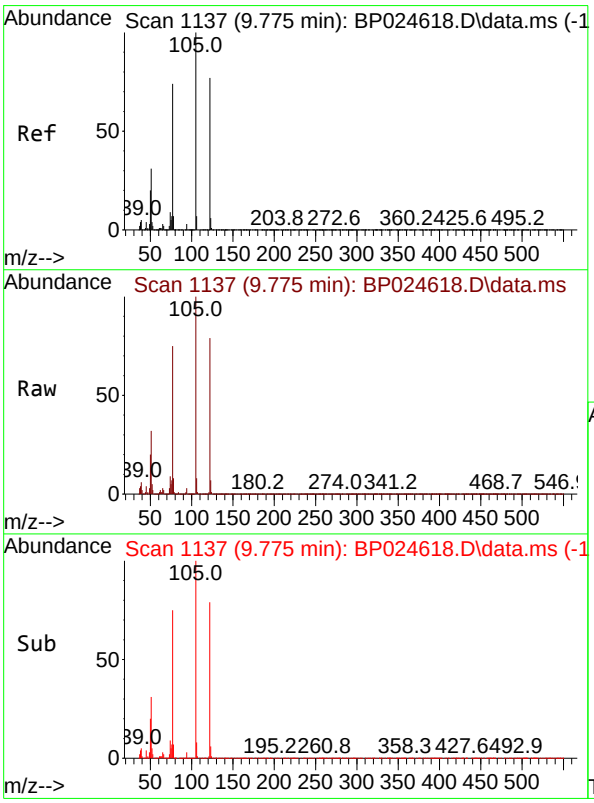
#31
Naphthalene
Concen: 37.824 ng
RT: 10.481 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:128 Resp: 1059316

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.4	10.7	16.1

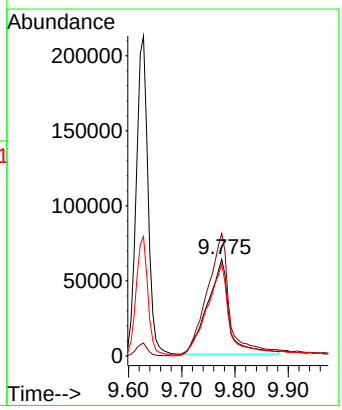


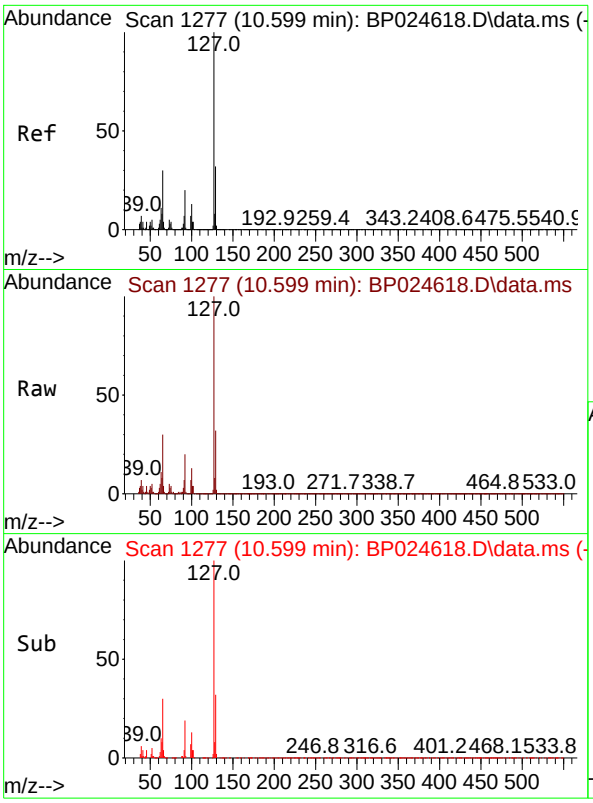


#32
Benzoic acid
Concen: 34.055 ng
RT: 9.775 min Scan# 1137
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:122 Resp: 180610

Ion	Ratio	Lower	Upper
122	100		
105	126.9	106.9	146.9
77	95.1	75.1	115.1



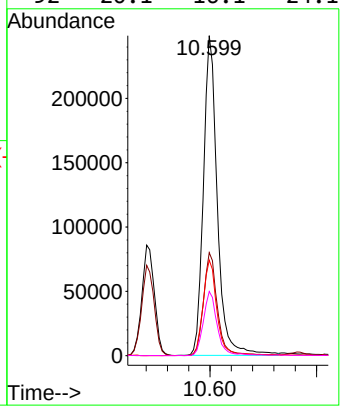


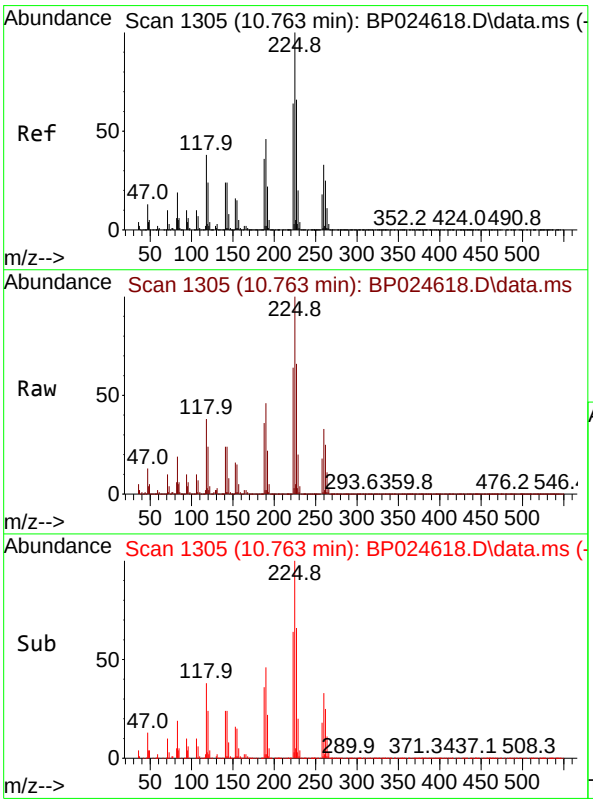
#33
4-Chloroaniline
Concen: 40.008 ng
RT: 10.599 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:127 Resp: 452150

Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.8	38.6
65	29.9	23.9	35.9
92	20.1	16.1	24.1

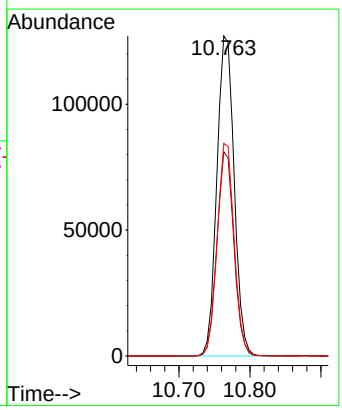


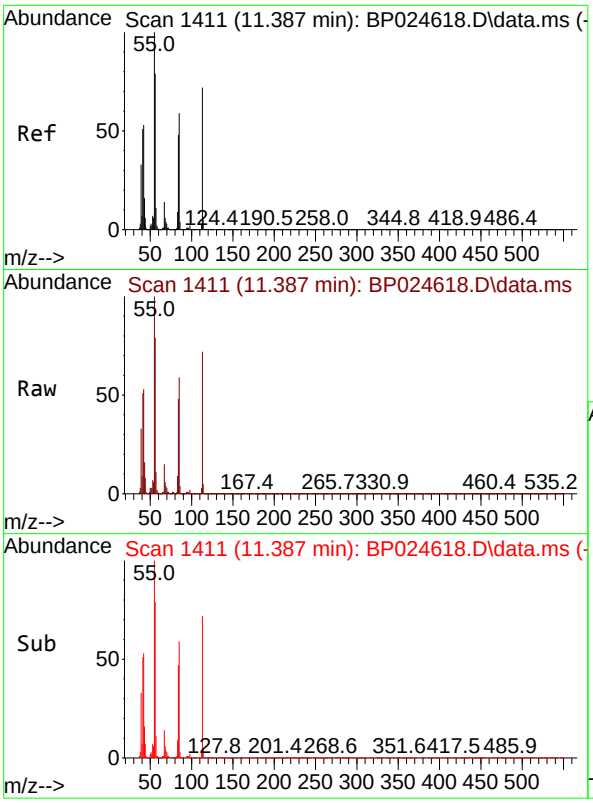


#34
Hexachlorobutadiene
Concen: 37.194 ng
RT: 10.763 min Scan# 1305
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:225 Resp: 213978

Ion	Ratio	Lower	Upper
225	100		
223	63.8	51.0	76.6
227	66.4	53.1	79.7



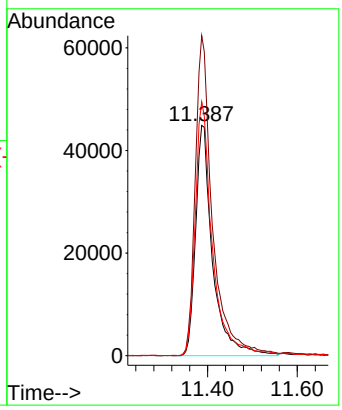


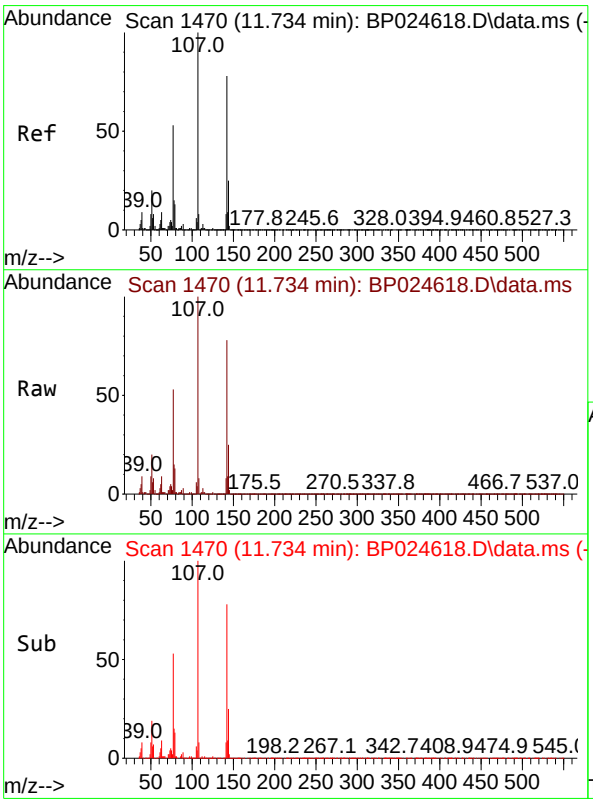
#35
Caprolactam
Concen: 41.426 ng
RT: 11.387 min Scan# 14
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:113 Resp: 118047

Ion	Ratio	Lower	Upper
113	100		
55	139.0	119.0	159.0
56	110.3	90.3	130.3

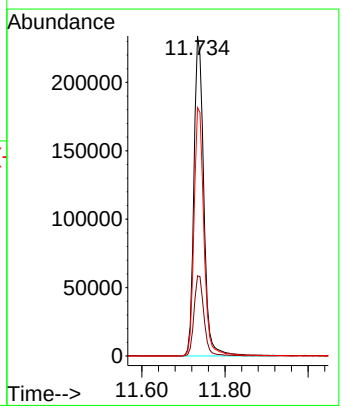


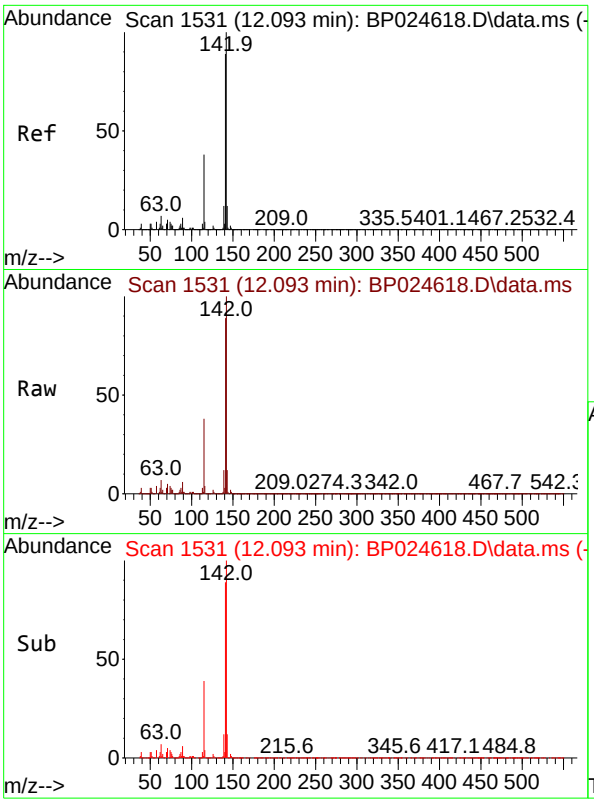


#36
4-Chloro-3-methylphenol
Concen: 40.069 ng
RT: 11.734 min Scan# 1470
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:107 Resp: 385077

Ion	Ratio	Lower	Upper
107	100		
144	25.1	20.1	30.1
142	77.6	62.1	93.1



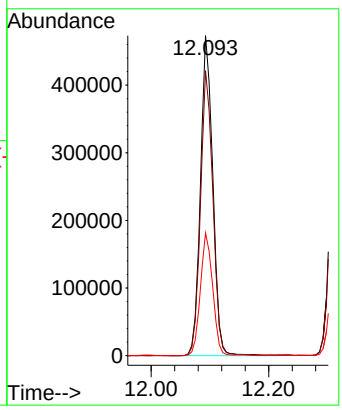


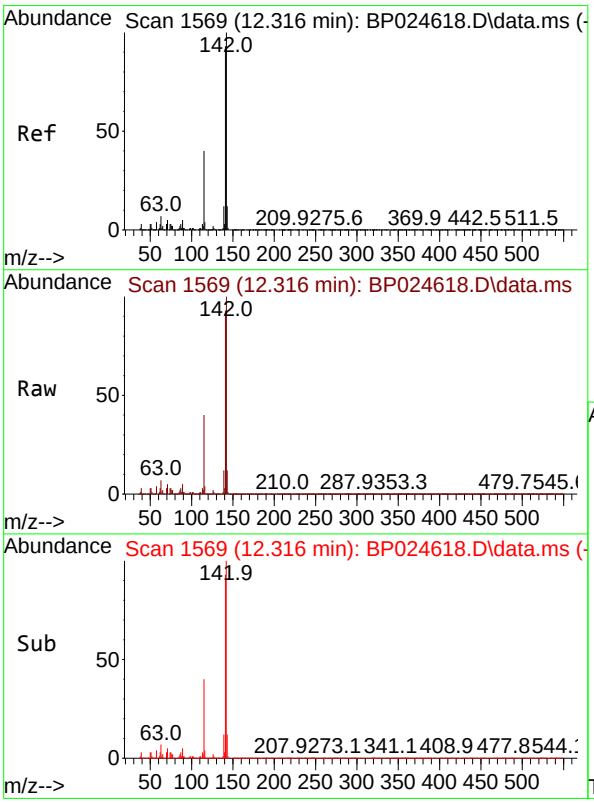
#37
2-Methylnaphthalene
Concen: 38.166 ng
RT: 12.093 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:142 Resp: 692133

Ion	Ratio	Lower	Upper
142	100		
141	89.0	71.2	106.8
115	38.3	30.6	46.0

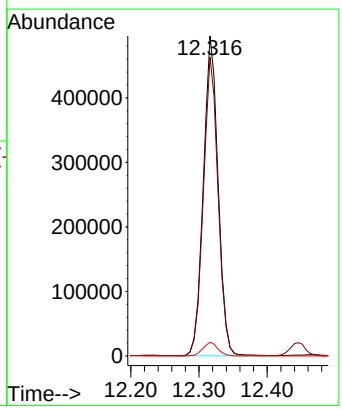


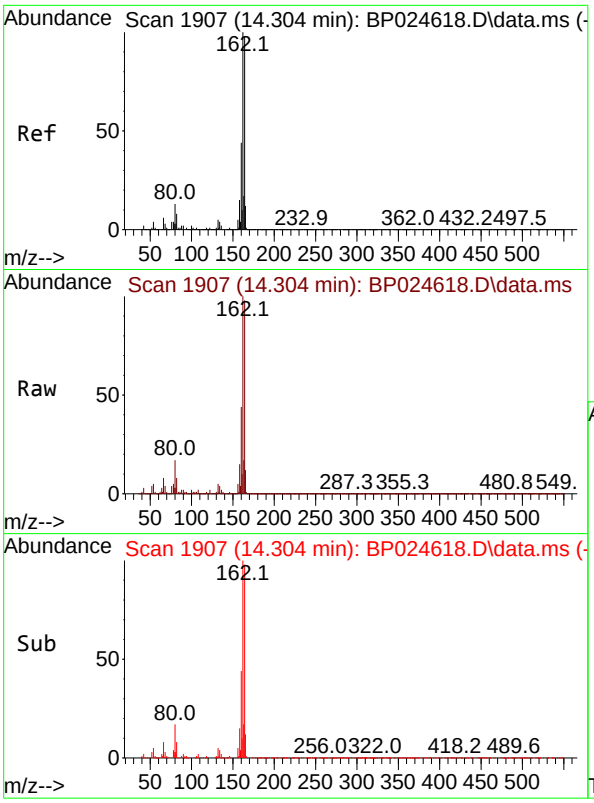


#38
1-Methylnaphthalene
Concen: 38.439 ng
RT: 12.316 min Scan# 1569
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:142 Resp: 745849

Ion	Ratio	Lower	Upper
142	100		
141	93.4	74.7	112.1
116	4.3	3.4	5.2



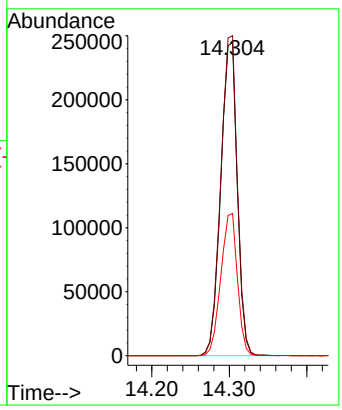


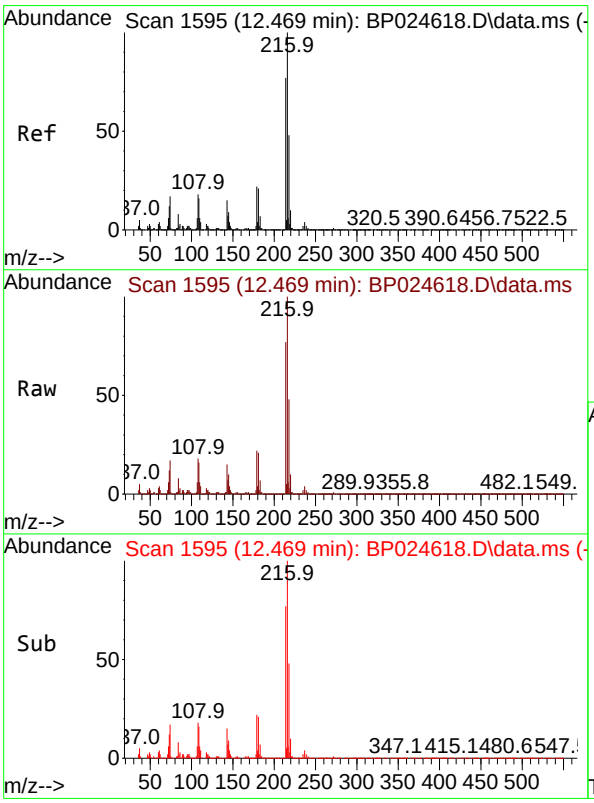
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:164 Resp: 362458

Ion	Ratio	Lower	Upper
164	100		
162	102.2	81.8	122.6
160	45.4	36.3	54.5

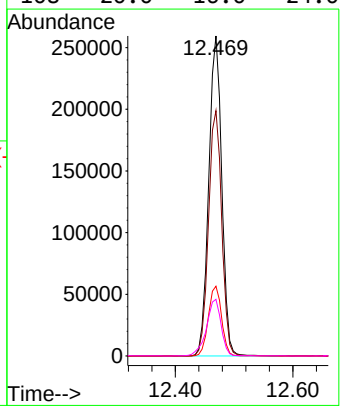


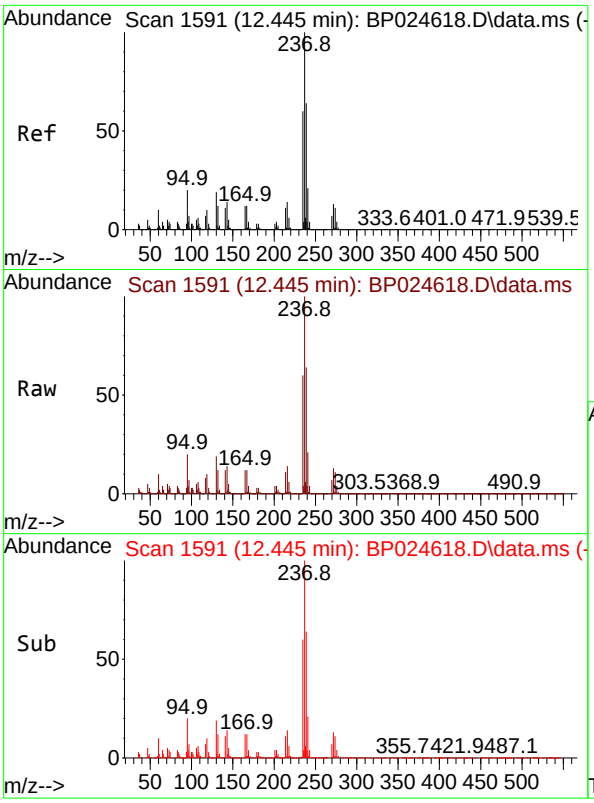


#40
1,2,4,5-Tetrachlorobenzene
Concen: 37.835 ng
RT: 12.469 min Scan# 1595
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:216 Resp: 398230

Ion	Ratio	Lower	Upper
216	100		
214	77.9	62.3	93.5
179	22.1	17.7	26.5
108	20.0	16.0	24.0



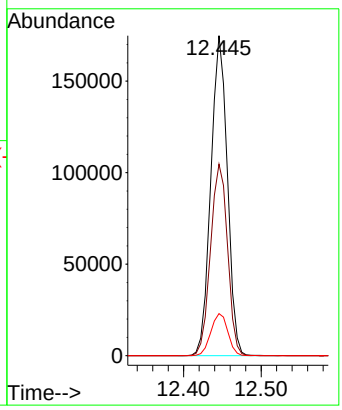


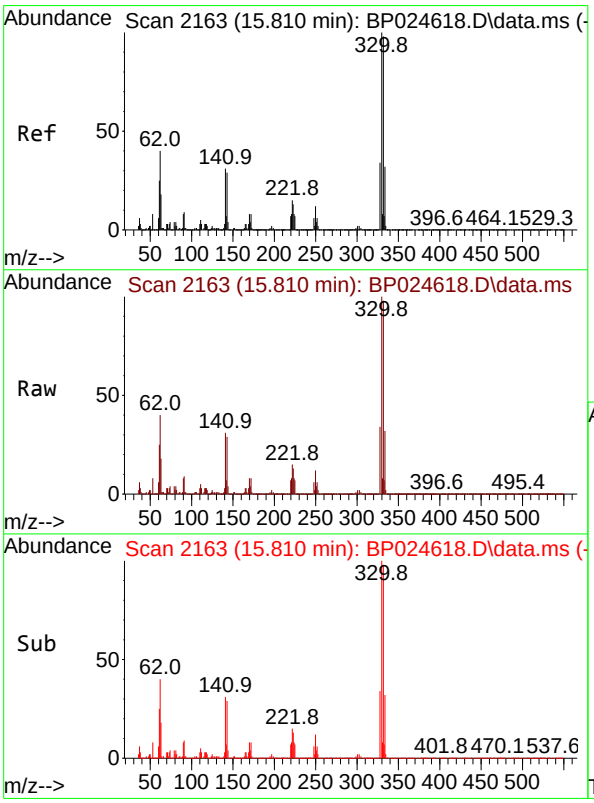
#41
Hexachlorocyclopentadiene
Concen: 40.476 ng
RT: 12.445 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:237 Resp: 258329

Ion	Ratio	Lower	Upper
237	100		
235	59.9	39.9	79.9
272	13.2	0.0	33.2

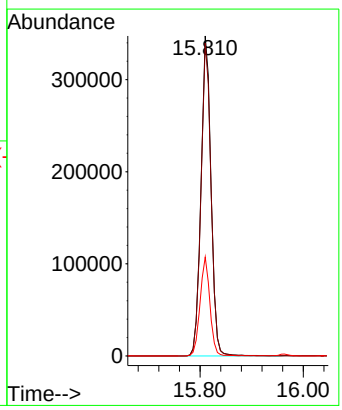


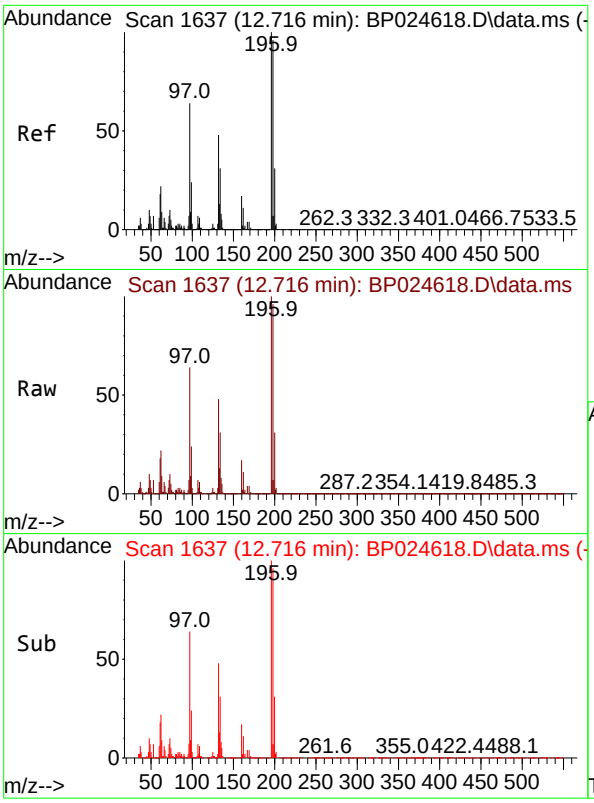


#42
2,4,6-Tribromophenol
Concen: 76.132 ng
RT: 15.810 min Scan# 2163
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:330 Resp: 467808

Ion	Ratio	Lower	Upper
330	100		
332	97.8	78.2	117.4
141	30.4	24.3	36.5



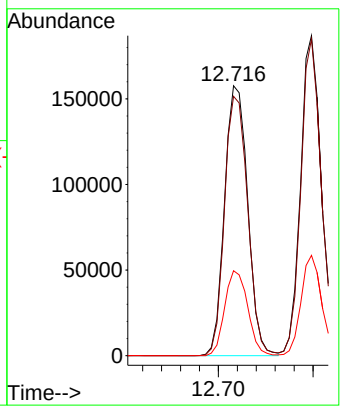


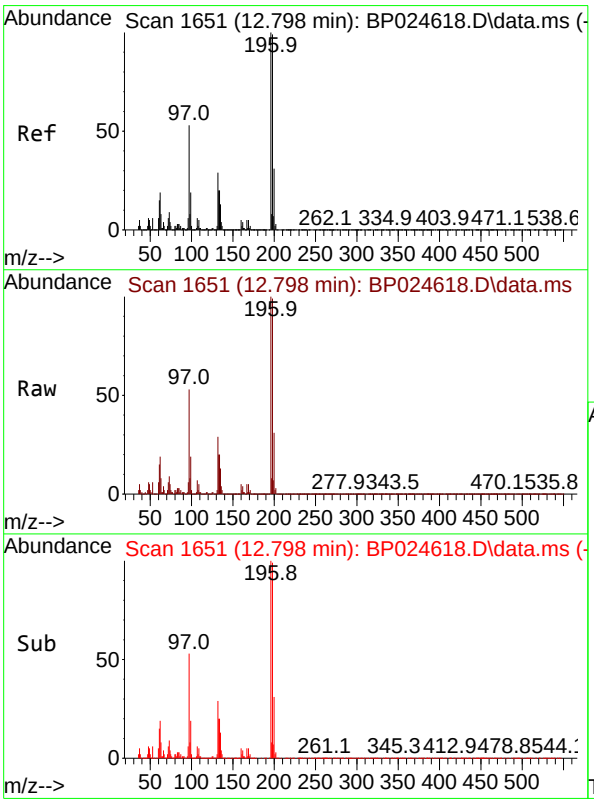
#43
2,4,6-Trichlorophenol
Concen: 39.410 ng
RT: 12.716 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:196 Resp: 268675

Ion	Ratio	Lower	Upper
196	100		
198	96.1	76.9	115.3
200	31.5	25.2	37.8

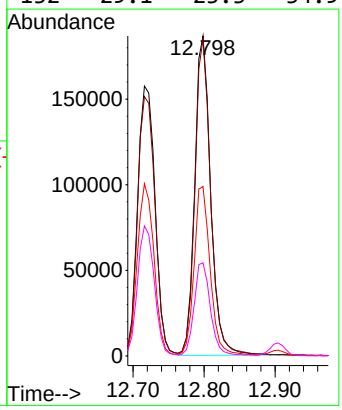


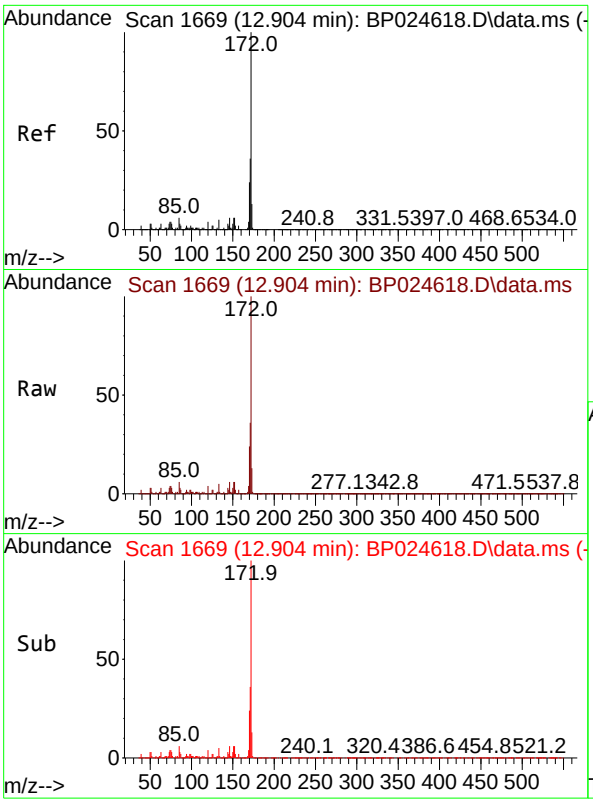


#44
2,4,5-Trichlorophenol
Concen: 38.621 ng
RT: 12.798 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:196 Resp: 293079

Ion	Ratio	Lower	Upper
196	100		
198	99.0	79.2	118.8
97	52.9	42.3	63.5
132	29.1	23.3	34.9



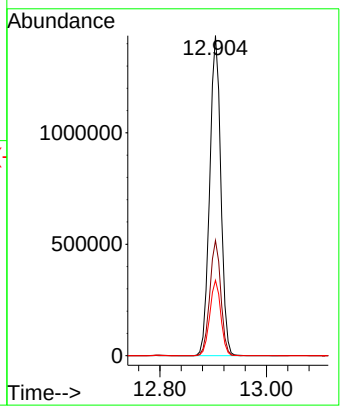


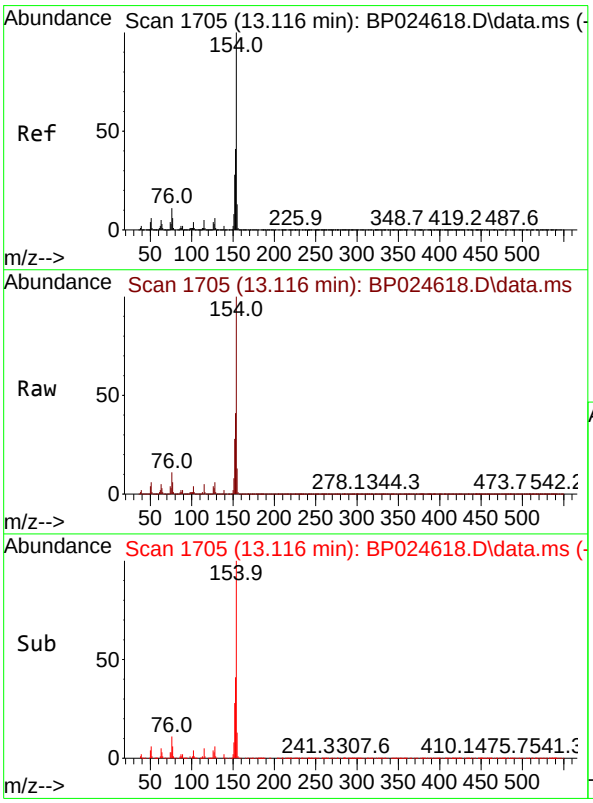
#45
2-Fluorobiphenyl
Concen: 75.051 ng
RT: 12.904 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:172 Resp: 2076354

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.5	18.8	28.2

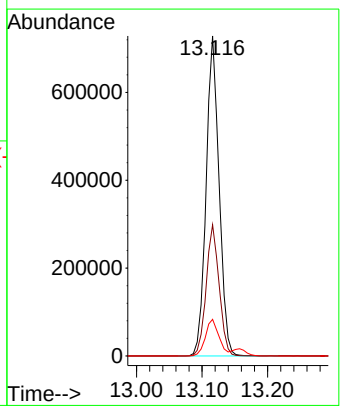


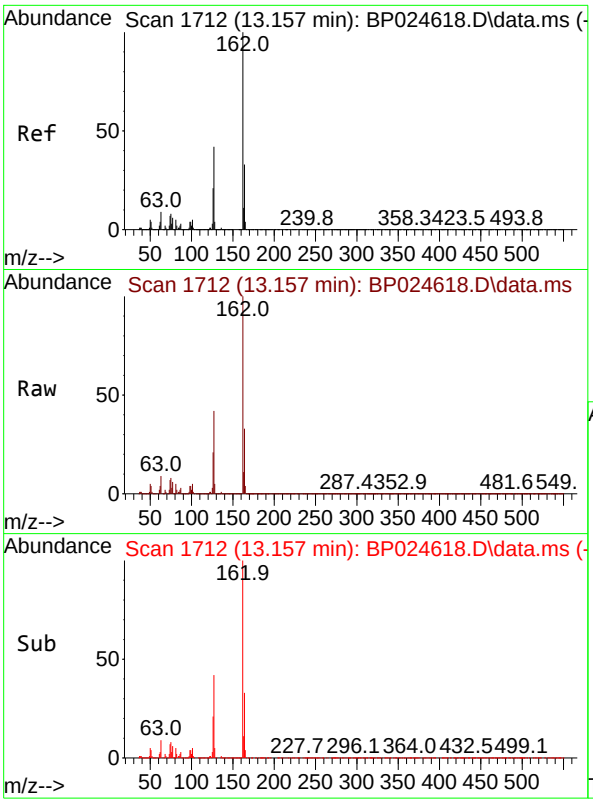


#46
1,1'-Biphenyl
Concen: 37.415 ng
RT: 13.116 min Scan# 1705
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:154 Resp: 1002344

Ion	Ratio	Lower	Upper
154	100		
153	41.0	21.0	61.0
76	11.5	0.0	31.5



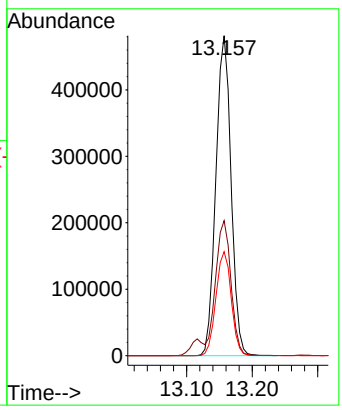


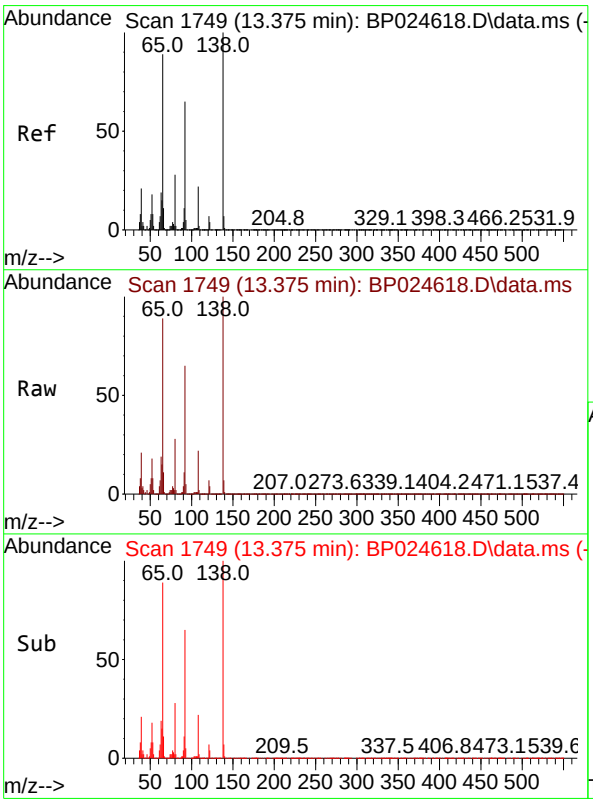
#47
2-Chloronaphthalene
Concen: 37.792 ng
RT: 13.157 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:162 Resp: 771952

Ion	Ratio	Lower	Upper
162	100		
127	42.2	33.8	50.6
164	32.5	26.0	39.0

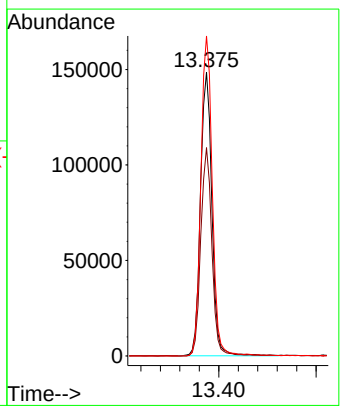


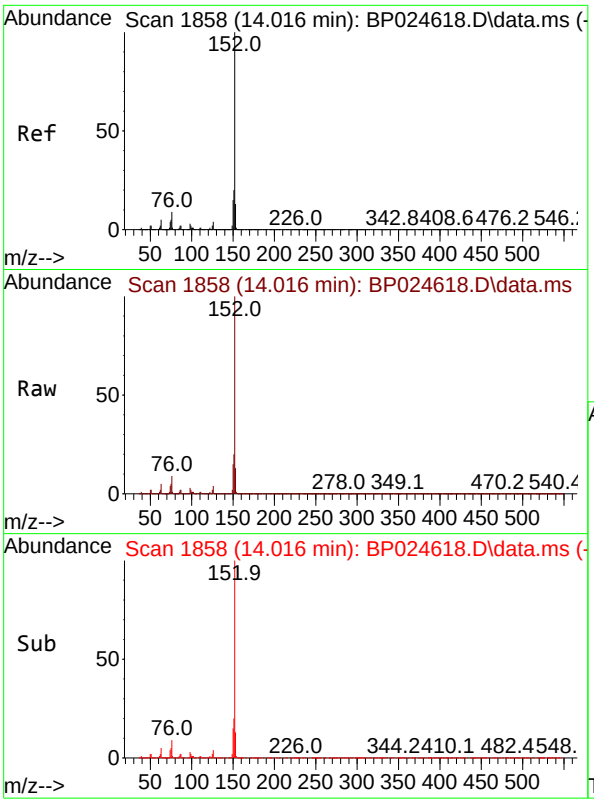


#48
2-Nitroaniline
Concen: 40.097 ng
RT: 13.375 min Scan# 1749
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion: 65 Resp: 242485

Ion	Ratio	Lower	Upper
65	100		
92	73.4	58.7	88.1
138	112.7	90.2	135.2



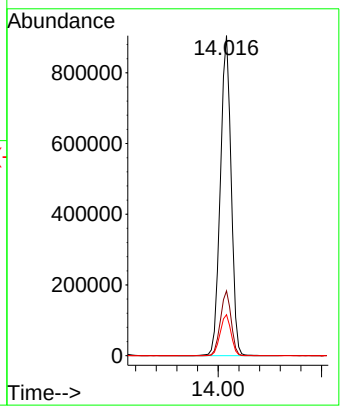


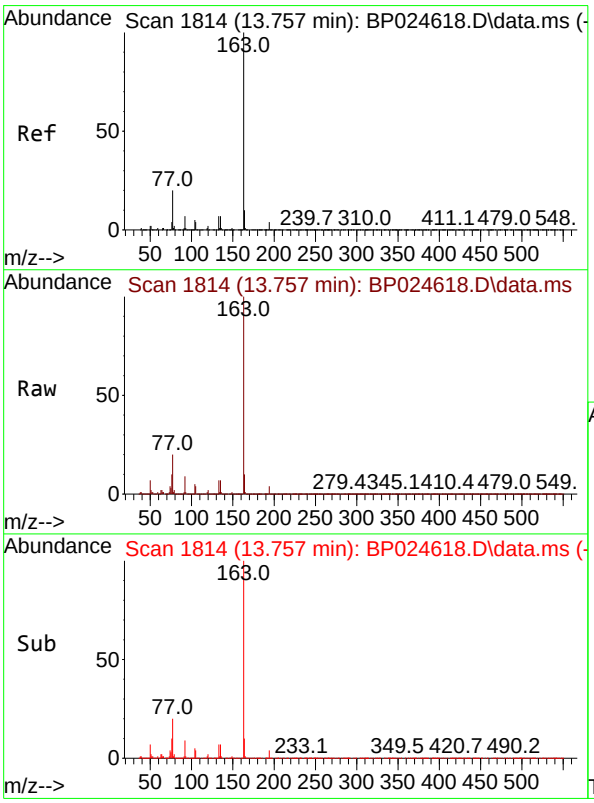
#49
Acenaphthylene
Concen: 38.257 ng
RT: 14.016 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:152 Resp: 1307740

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	12.8	10.2	15.4

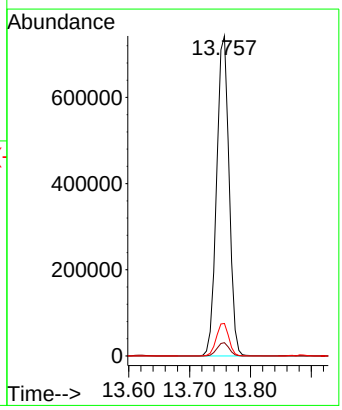


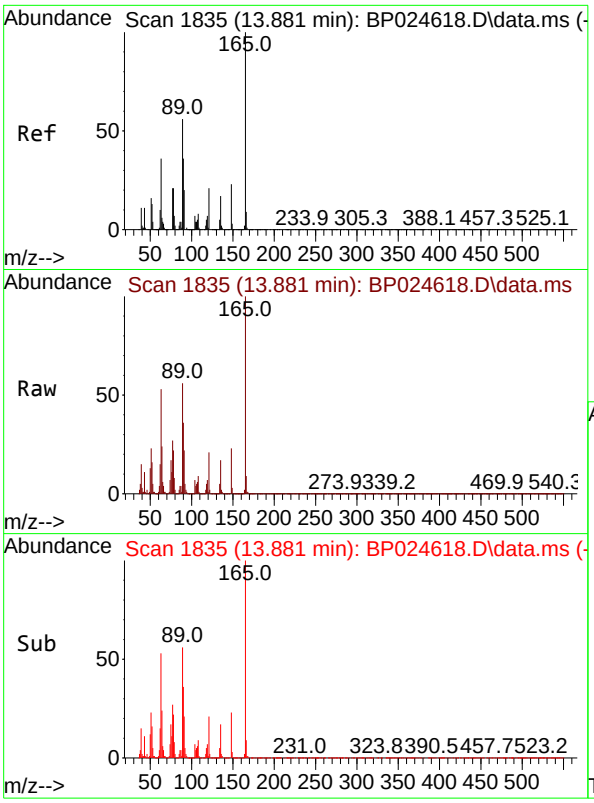


#50
Dimethylphthalate
Concen: 38.045 ng
RT: 13.757 min Scan# 1814
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:163 Resp: 1051056

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	10.1	8.1	12.1



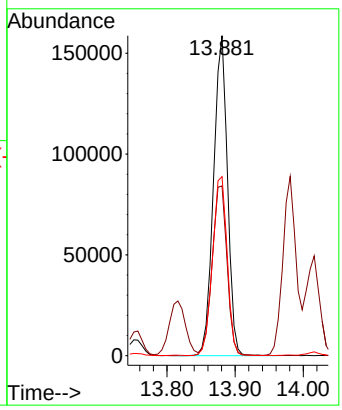


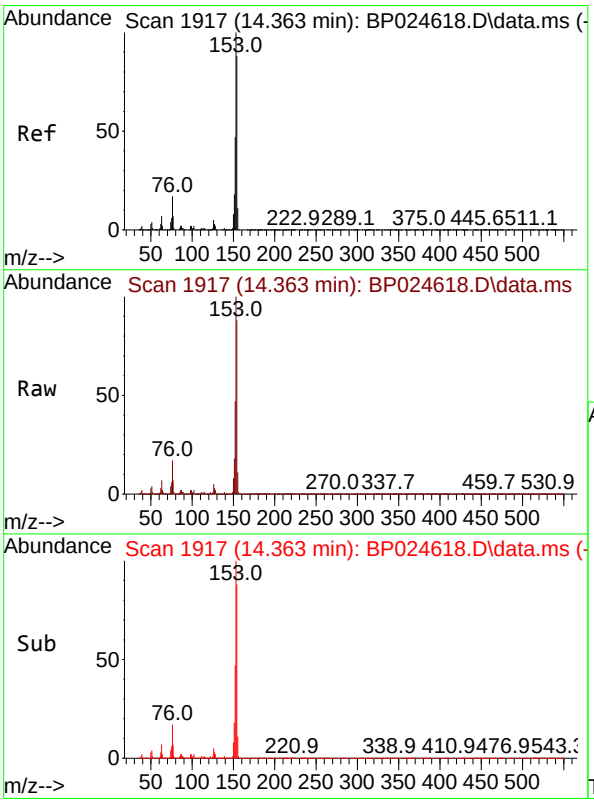
#51
2,6-Dinitrotoluene
Concen: 38.749 ng
RT: 13.881 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 226086

Ion	Ratio	Lower	Upper
165	100		
63	53.0	42.4	63.6
89	56.0	44.8	67.2

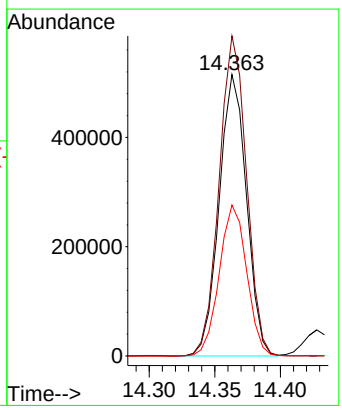


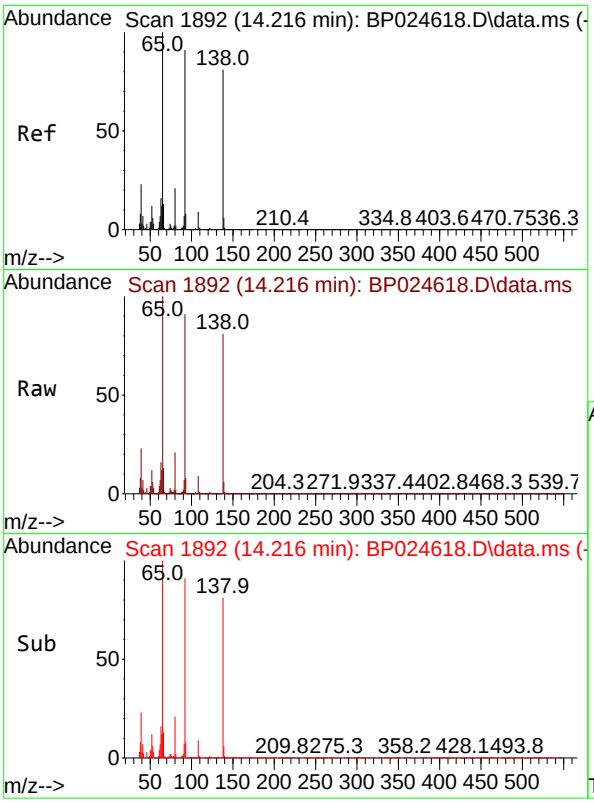


#52
Acenaphthene
Concen: 37.928 ng
RT: 14.363 min Scan# 1917
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:154 Resp: 745335

Ion	Ratio	Lower	Upper
154	100		
153	113.7	91.0	136.4
152	53.6	42.9	64.3



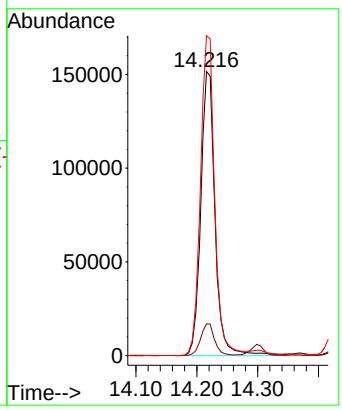


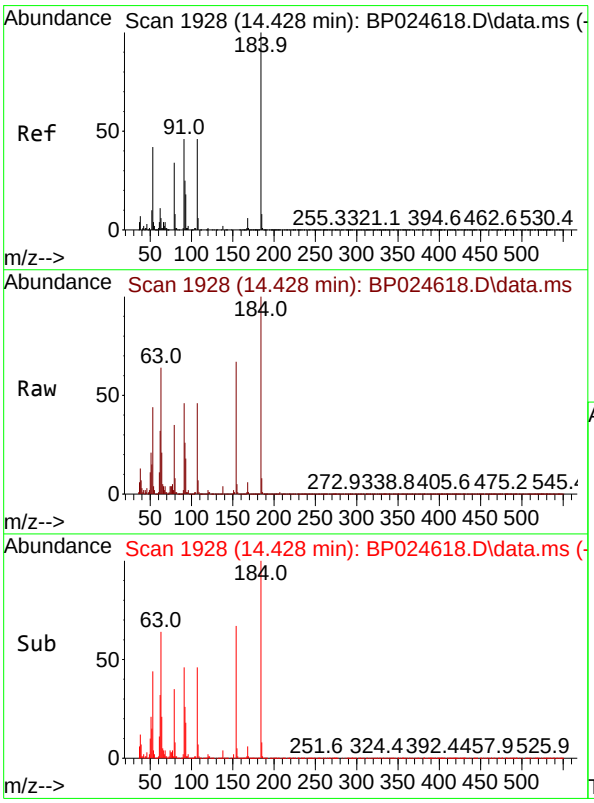
#53
3-Nitroaniline
Concen: 41.386 ng
RT: 14.216 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:138 Resp: 246561

Ion	Ratio	Lower	Upper
138	100		
108	11.2	9.0	13.4
92	112.6	90.1	135.1

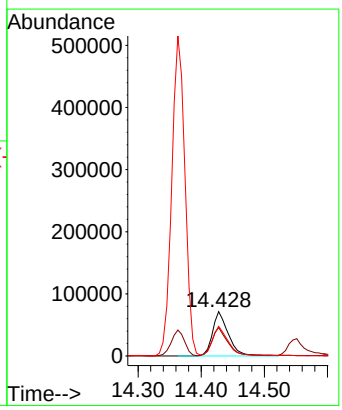


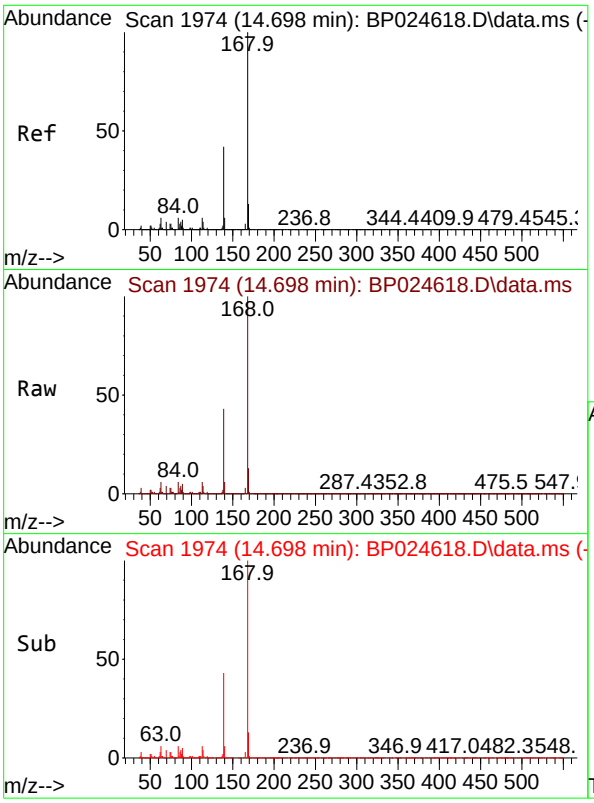


#54
2,4-Dinitrophenol
Concen: 37.537 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:184 Resp: 124517

Ion	Ratio	Lower	Upper
184	100		
63	64.1	51.3	76.9
154	66.9	53.5	80.3



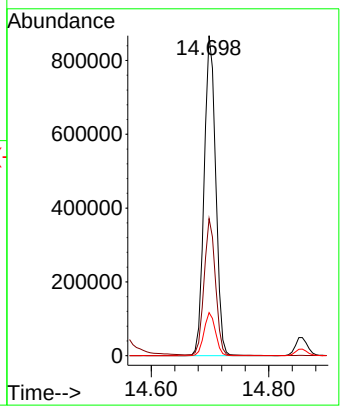


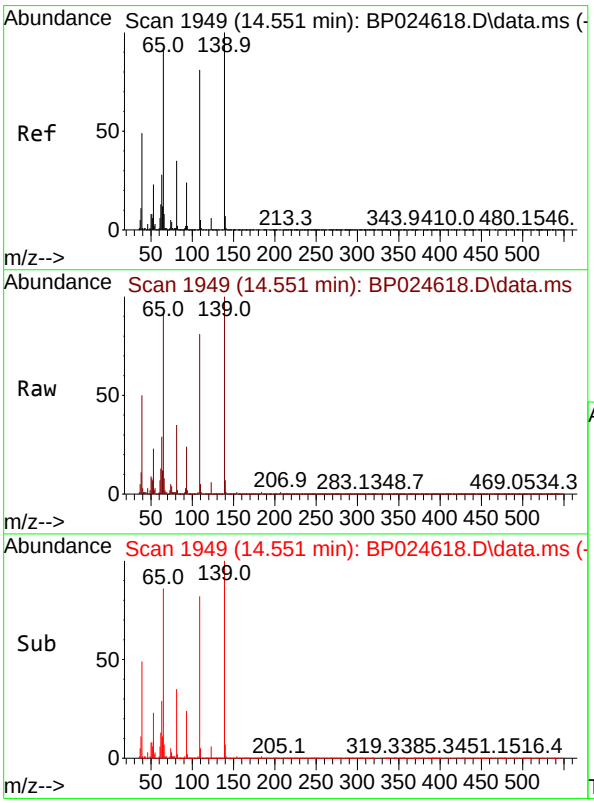
#55
Dibenzofuran
Concen: 37.767 ng
RT: 14.698 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:168 Resp: 1183806

Ion	Ratio	Lower	Upper
168	100		
139	42.8	34.2	51.4
169	13.5	10.8	16.2

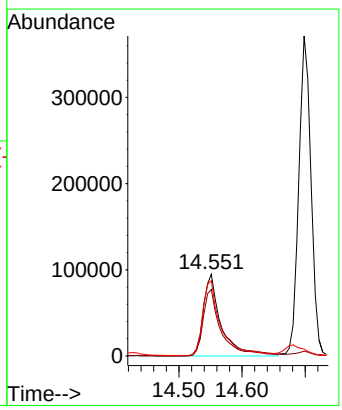


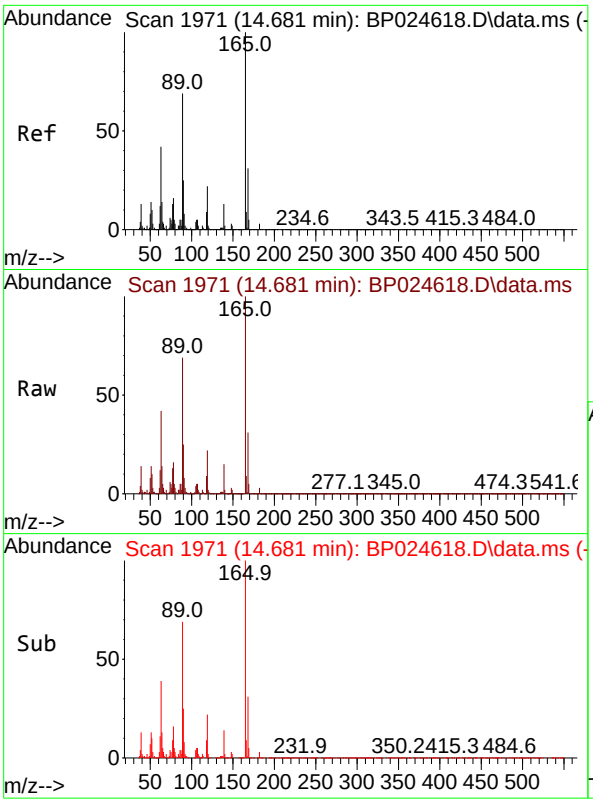


#56
4-Nitrophenol
Concen: 38.408 ng
RT: 14.551 min Scan# 1949
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:139 Resp: 186112

Ion	Ratio	Lower	Upper
139	100		
109	81.4	61.4	101.4
65	92.2	72.2	112.2



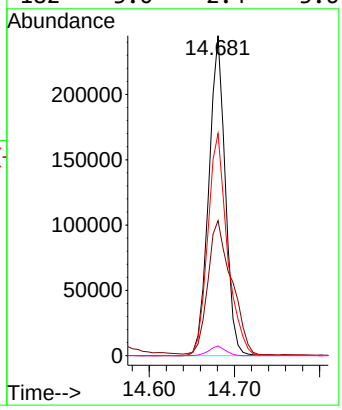


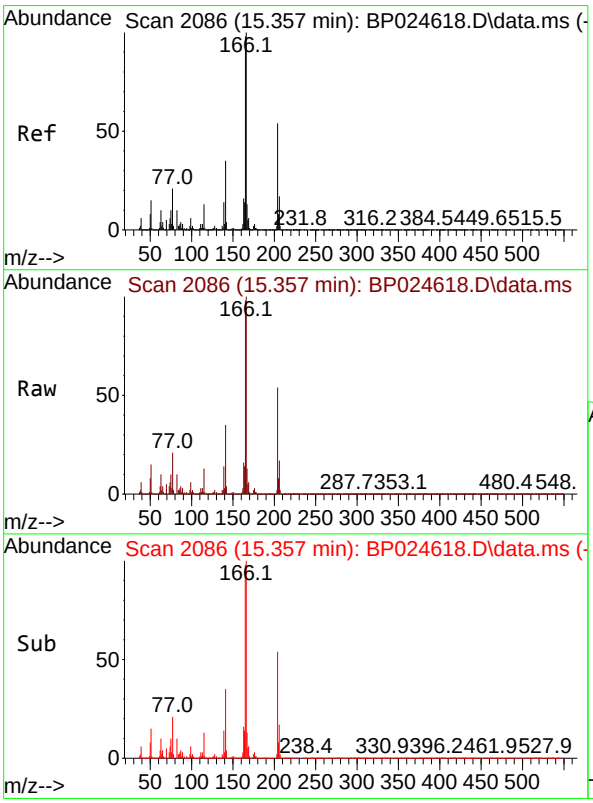
#57
2,4-Dinitrotoluene
Concen: 40.015 ng
RT: 14.681 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:165 Resp: 329156

Ion	Ratio	Lower	Upper
165	100		
63	42.2	33.8	50.6
89	69.5	55.6	83.4
182	3.0	2.4	3.6

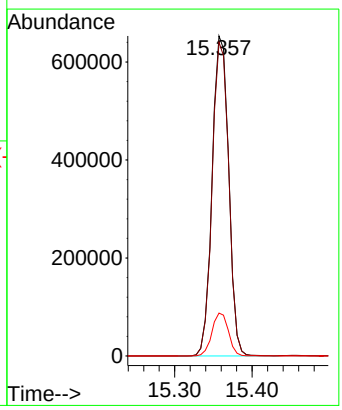


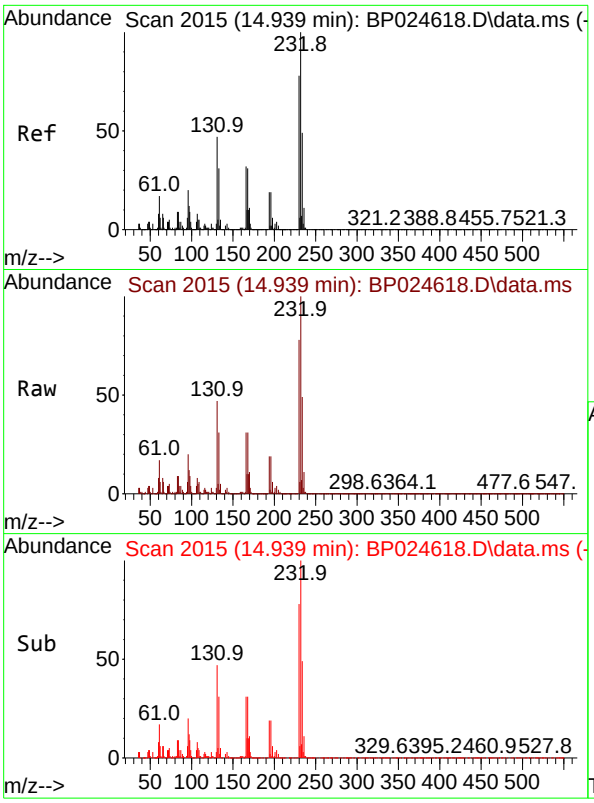


#58
Fluorene
Concen: 37.893 ng
RT: 15.357 min Scan# 2086
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:166 Resp: 968487

Ion	Ratio	Lower	Upper
166	100		
165	98.1	78.5	117.7
167	13.4	10.7	16.1



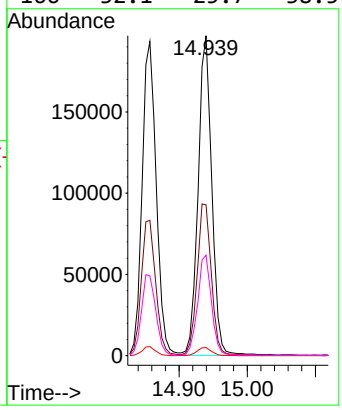


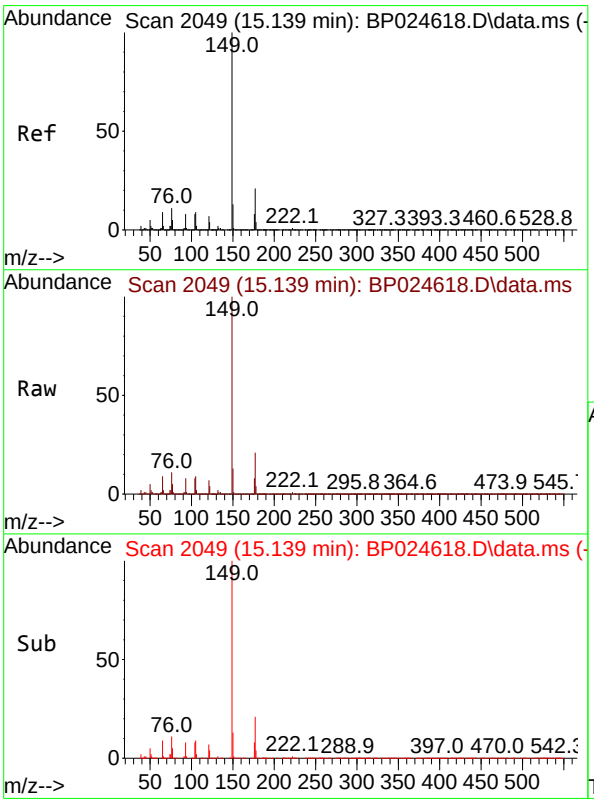
#59
2,3,4,6-Tetrachlorophenol
Concen: 38.977 ng
RT: 14.939 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:232 Resp: 274384

Ion	Ratio	Lower	Upper
232	100		
131	49.4	39.5	59.3
130	2.8	2.2	3.4
166	32.1	25.7	38.5

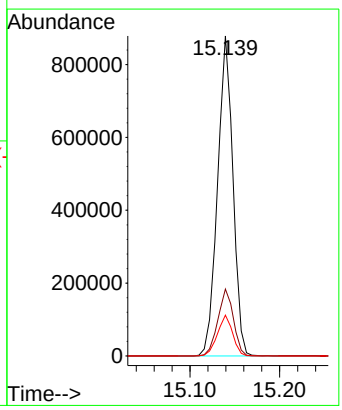


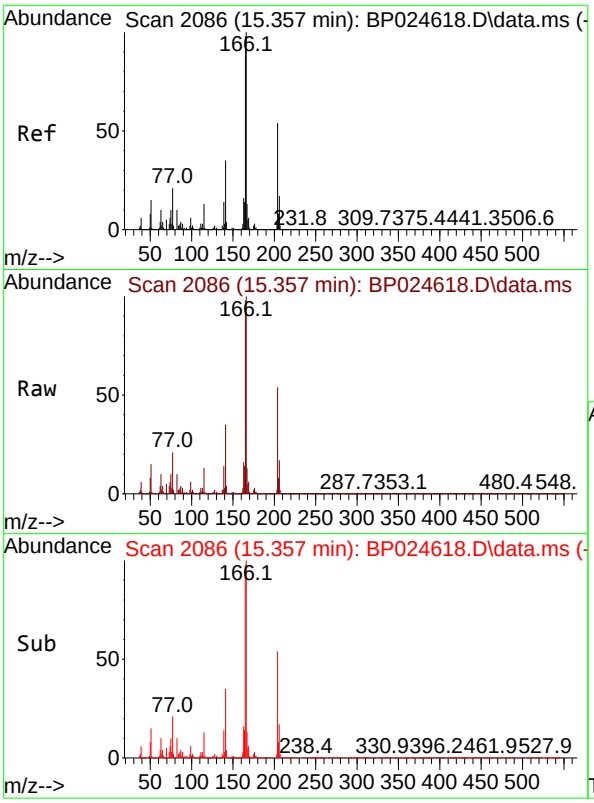


#60
Diethylphthalate
Concen: 37.478 ng
RT: 15.139 min Scan# 2049
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:149 Resp: 1046478

Ion	Ratio	Lower	Upper
149	100		
177	20.9	16.7	25.1
150	12.7	10.2	15.2



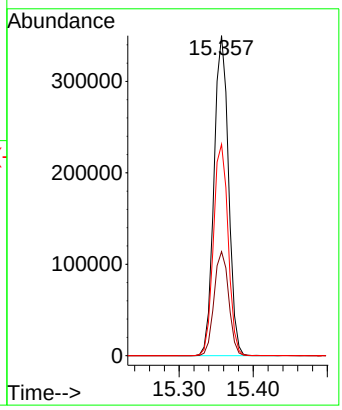


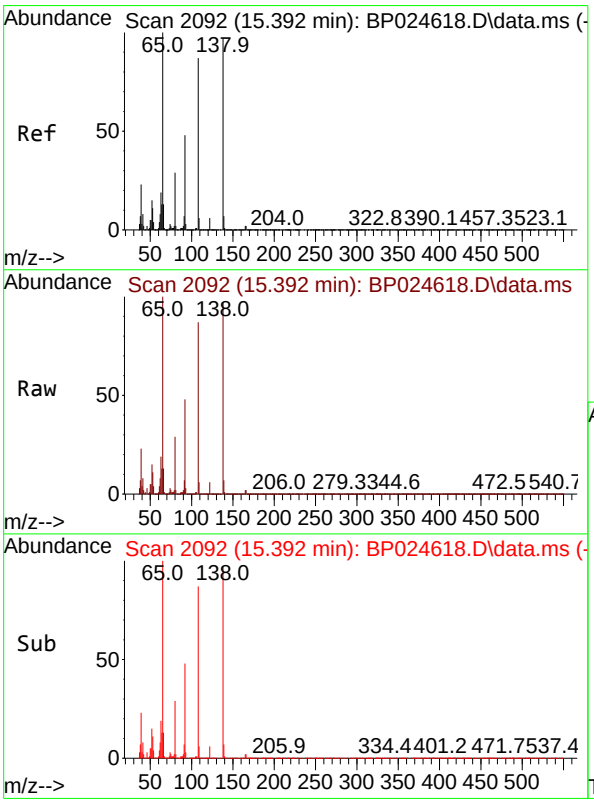
#61
4-Chlorophenyl-phenylether
Concen: 37.292 ng
RT: 15.357 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:204 Resp: 475327

Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.0	39.0
141	66.1	52.9	79.3

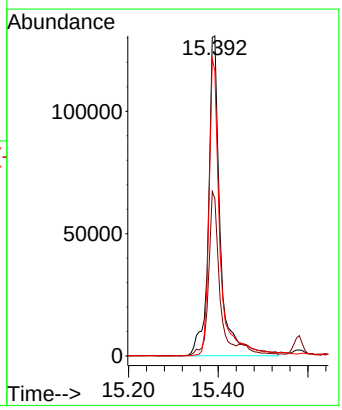


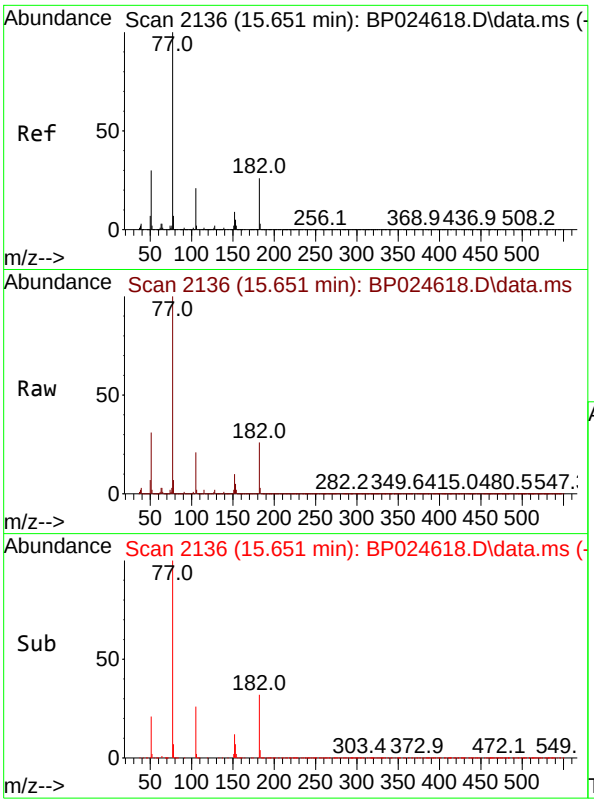


#62
4-Nitroaniline
Concen: 41.240 ng
RT: 15.392 min Scan# 2092
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:138 Resp: 239212

Ion	Ratio	Lower	Upper
138	100		
92	49.2	29.2	69.2
108	89.0	69.0	109.0



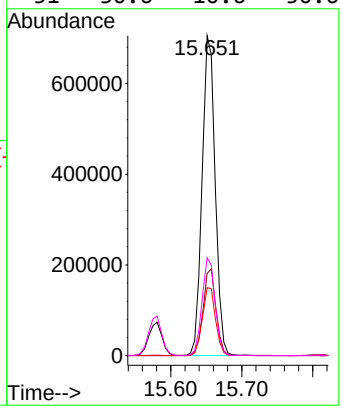


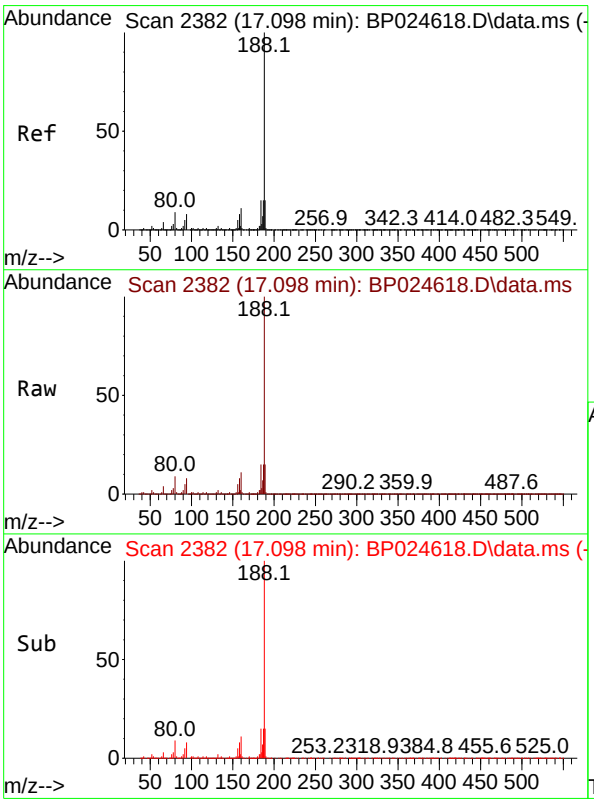
#63
Azobenzene
Concen: 37.940 ng
RT: 15.651 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion: 77 Resp: 906274

Ion	Ratio	Lower	Upper
77	100		
182	25.7	5.7	45.7
105	21.3	1.3	41.3
51	30.6	10.6	50.6

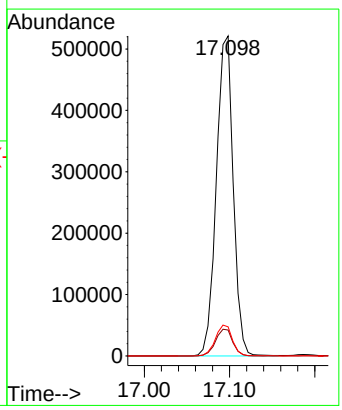


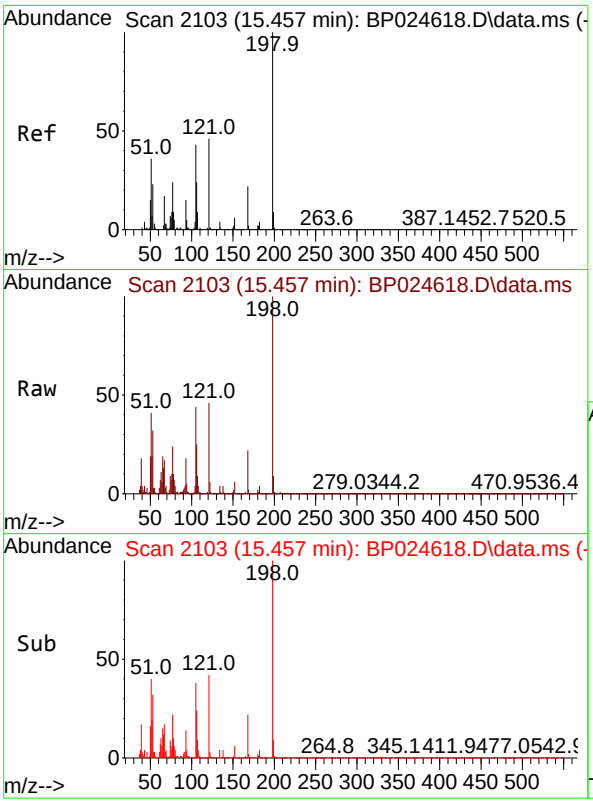


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.098 min Scan# 2382
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:188 Resp: 717362

Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.5	9.7
80	9.1	7.3	10.9



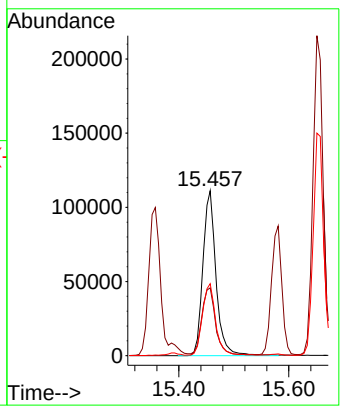


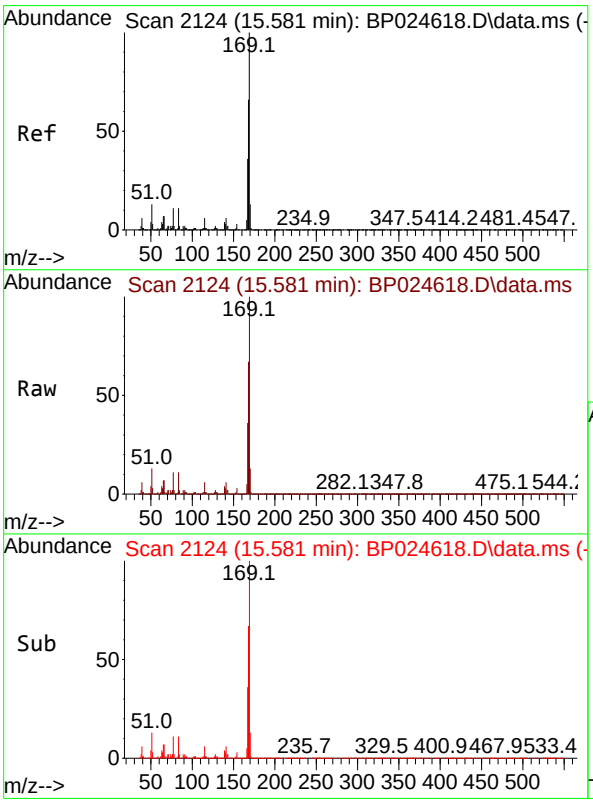
#65
4,6-Dinitro-2-methylphenol
Concen: 39.837 ng
RT: 15.457 min Scan# 21
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:198 Resp: 184593

Ion	Ratio	Lower	Upper
198	100		
51	41.1	21.1	61.1
105	43.6	23.6	63.6

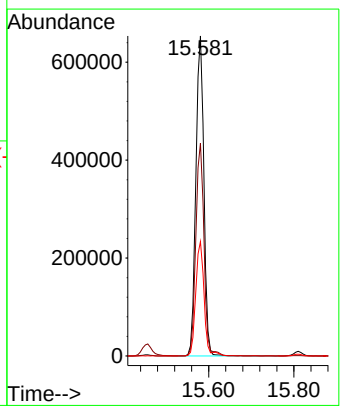


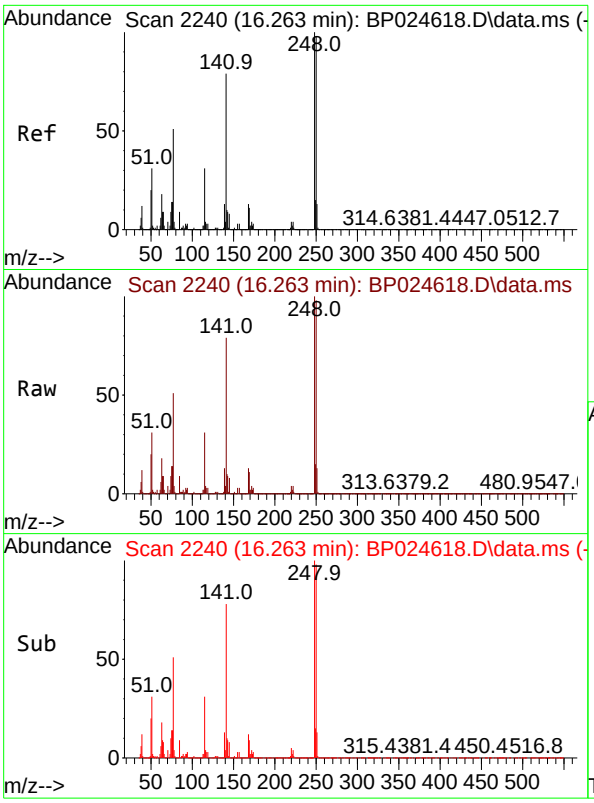


#66
n-Nitrosodiphenylamine
Concen: 38.630 ng
RT: 15.581 min Scan# 2124
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:169 Resp: 851188

Ion	Ratio	Lower	Upper
169	100		
168	66.5	53.2	79.8
167	35.8	28.6	43.0



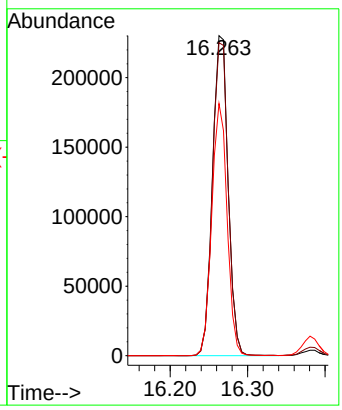


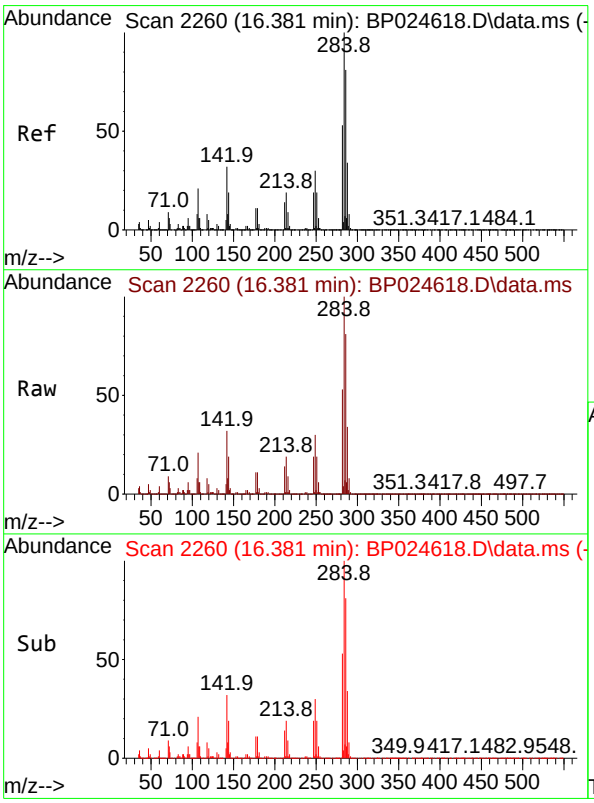
#67
4-Bromophenyl-phenylether
Concen: 38.277 ng
RT: 16.263 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:248 Resp: 323558

Ion	Ratio	Lower	Upper
248	100		
250	97.8	78.2	117.4
141	78.8	63.0	94.6

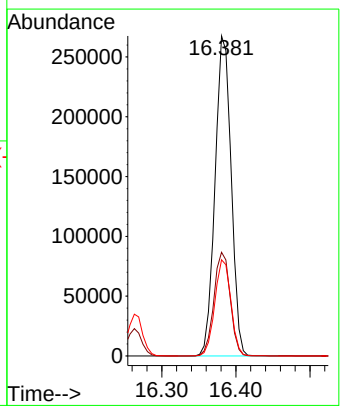


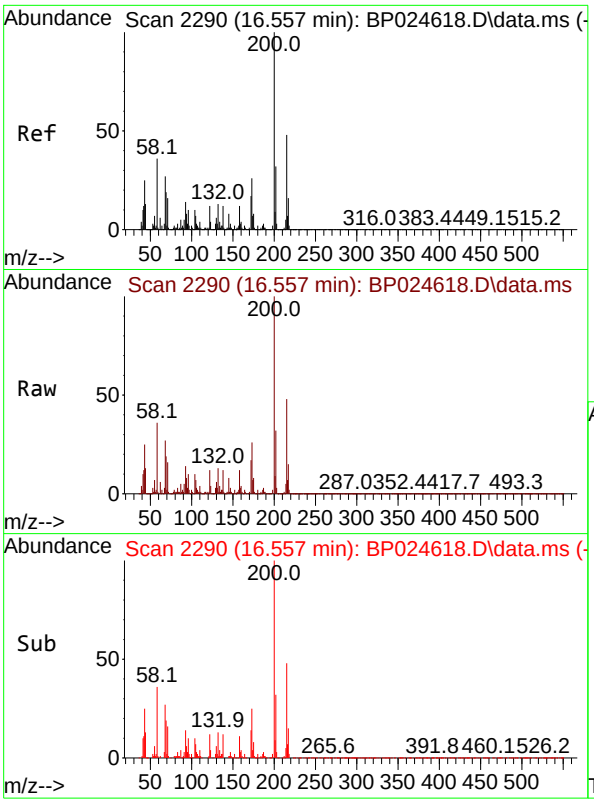


#68
Hexachlorobenzene
Concen: 37.605 ng
RT: 16.381 min Scan# 2260
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:284 Resp: 403916

Ion	Ratio	Lower	Upper
284	100		
142	32.4	25.9	38.9
249	30.1	24.1	36.1



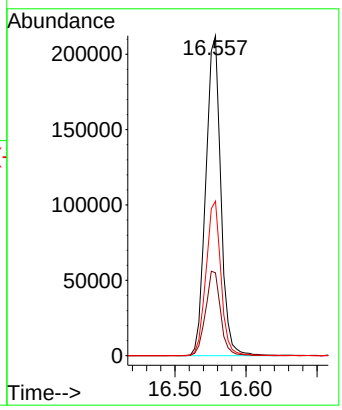


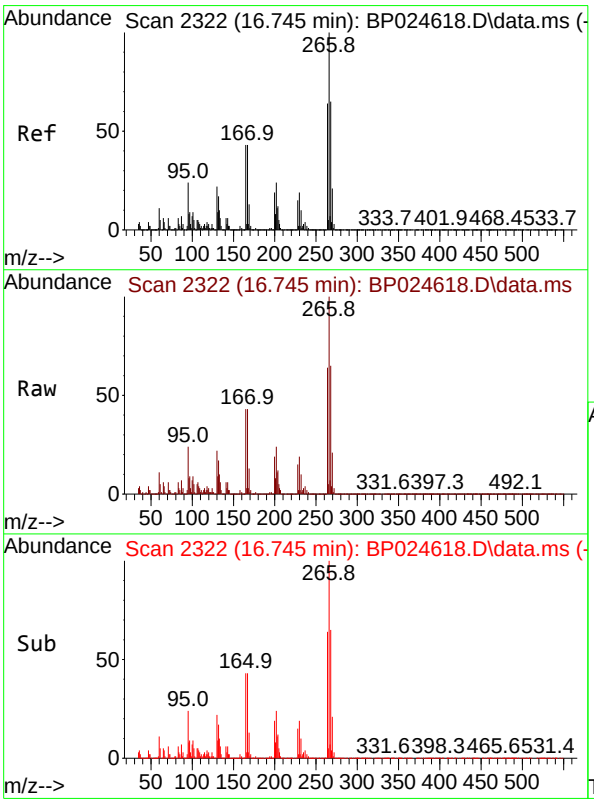
#69
Atrazine
Concen: 38.666 ng
RT: 16.557 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:200 Resp: 312226

Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.9	45.9
215	48.3	28.3	68.3

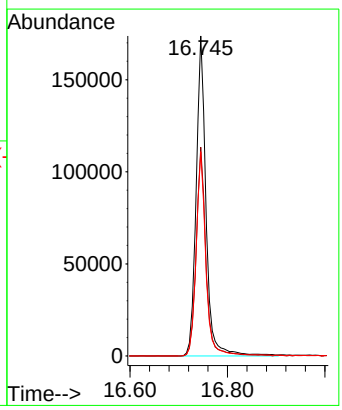


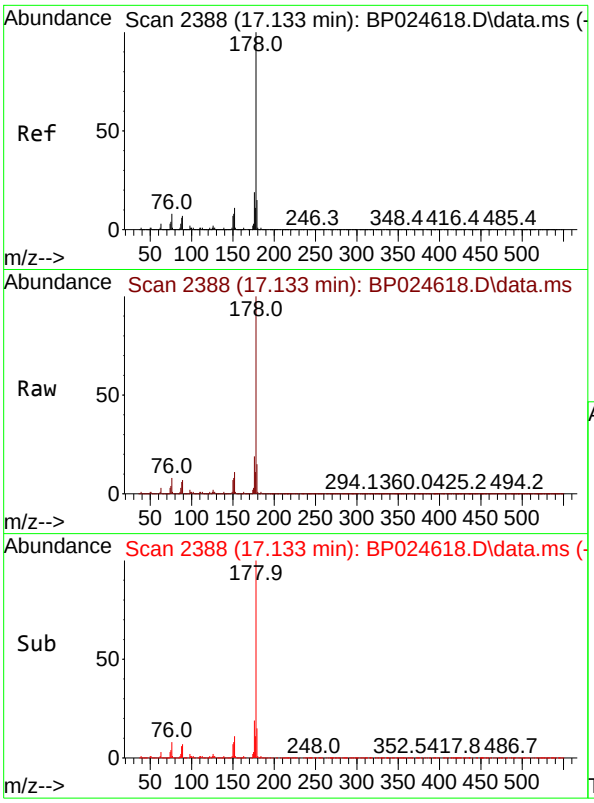


#70
Pentachlorophenol
Concen: 40.913 ng
RT: 16.745 min Scan# 2322
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:266 Resp: 246828

Ion	Ratio	Lower	Upper
266	100		
268	65.3	52.2	78.4
264	63.9	51.1	76.7



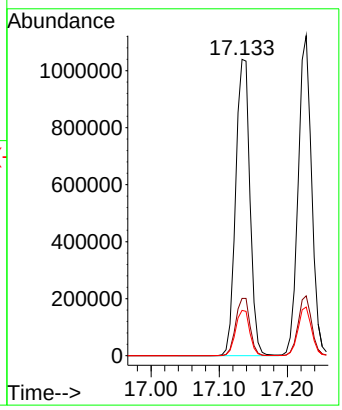


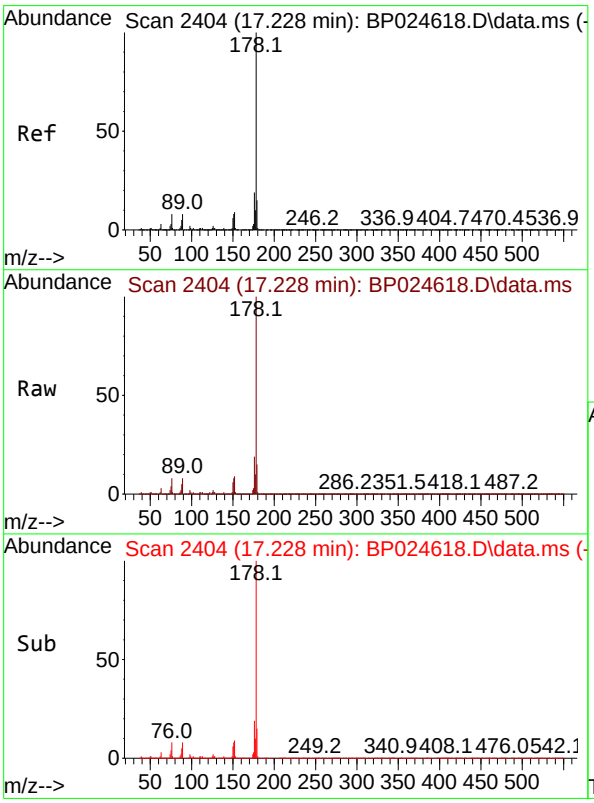
#71
Phenanthrene
Concen: 37.804 ng
RT: 17.133 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:178 Resp: 1507602

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.3	12.2	18.4

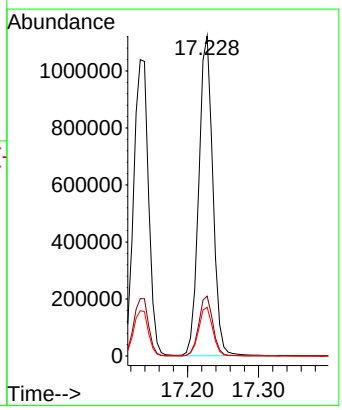


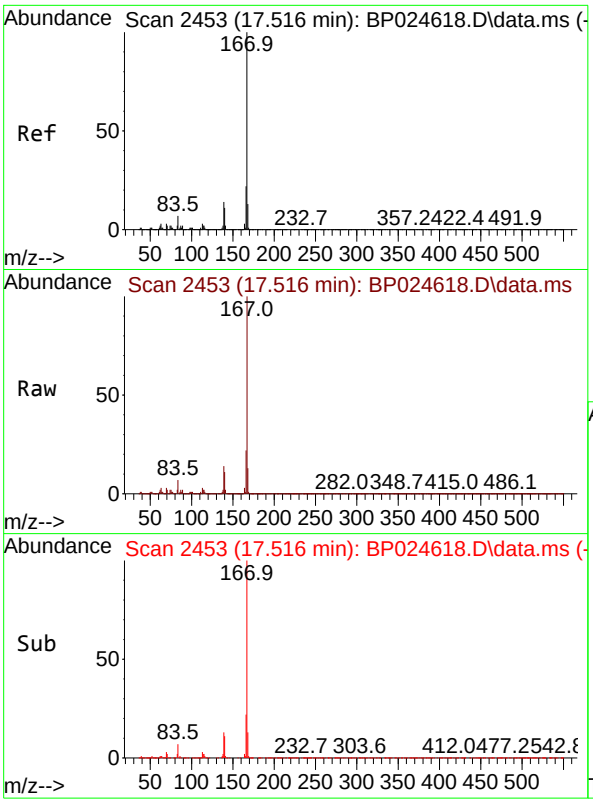


#72
Anthracene
Concen: 38.439 ng
RT: 17.228 min Scan# 2404
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:178 Resp: 1542275

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.2	12.2	18.2



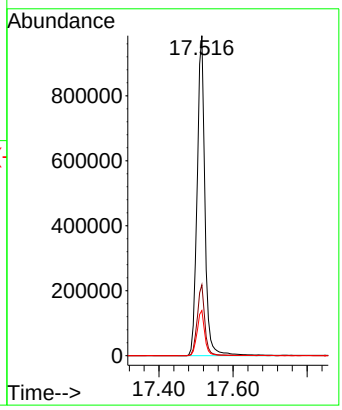


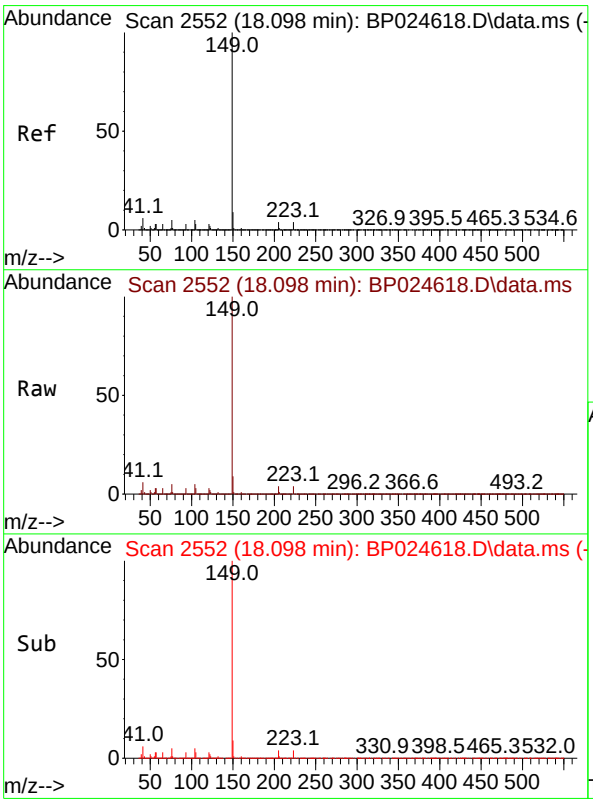
#73
Carbazole
Concen: 39.551 ng
RT: 17.516 min Scan# 24
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:167 Resp: 1436294

Ion	Ratio	Lower	Upper
167	100		
166	22.1	17.7	26.5
139	14.1	11.3	16.9

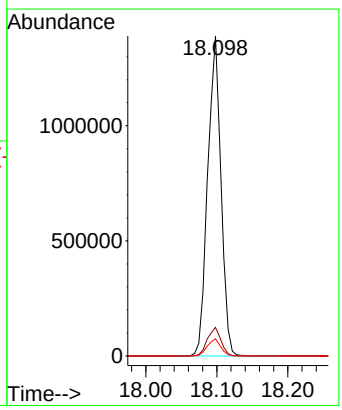


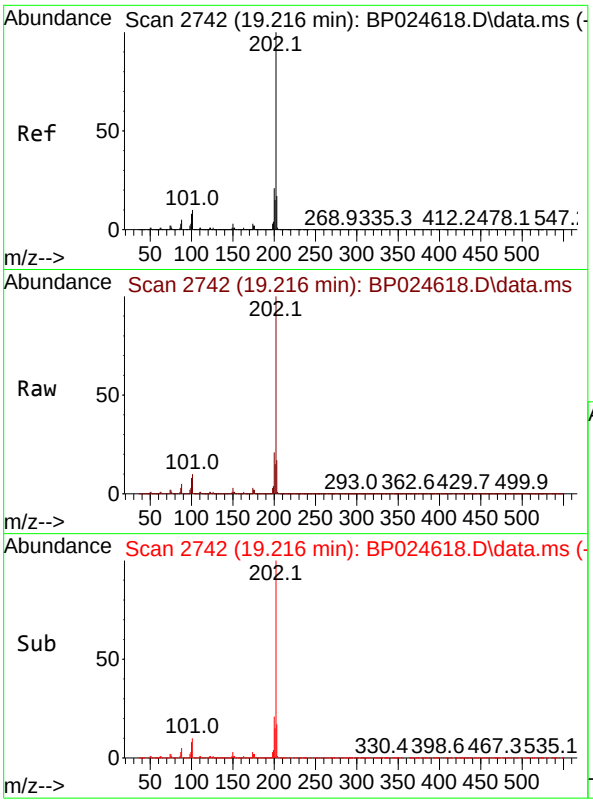


#74
Di-n-butylphthalate
Concen: 38.692 ng
RT: 18.098 min Scan# 2552
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:149 Resp: 1807097

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.2	10.8
104	5.4	4.3	6.5



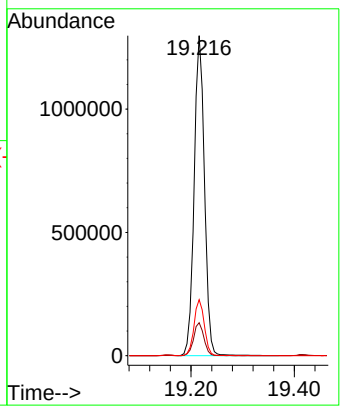


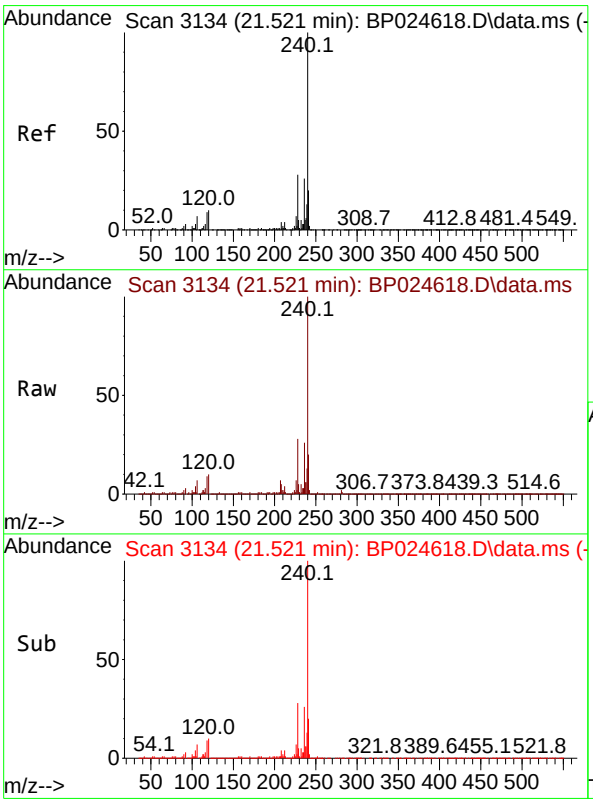
#75
Fluoranthene
Concen: 38.486 ng
RT: 19.216 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:202 Resp: 1794046

Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	30.3
203	17.5	0.0	37.5

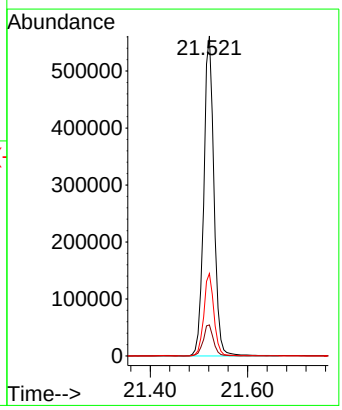


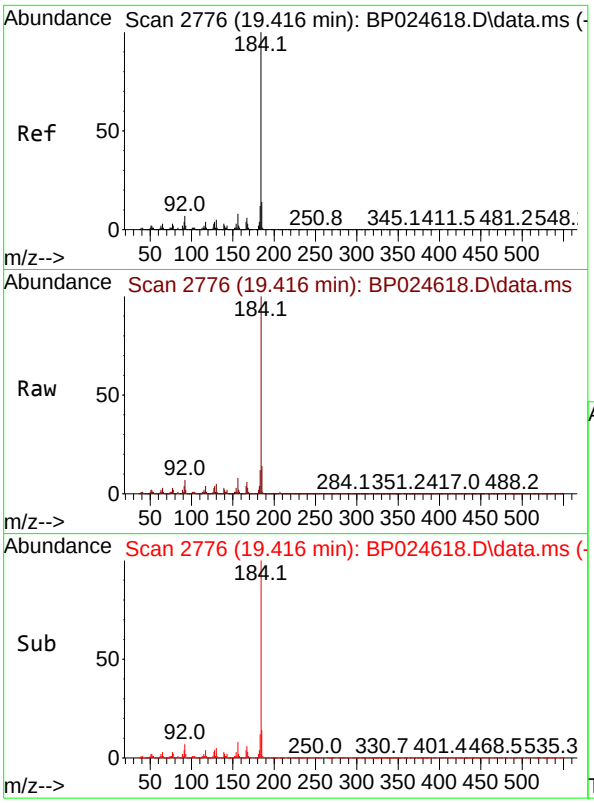


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.521 min Scan# 3134
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:240 Resp: 810498

Ion	Ratio	Lower	Upper
240	100		
120	9.7	7.8	11.6
236	25.8	20.6	31.0



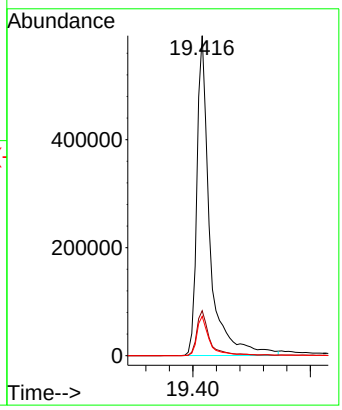


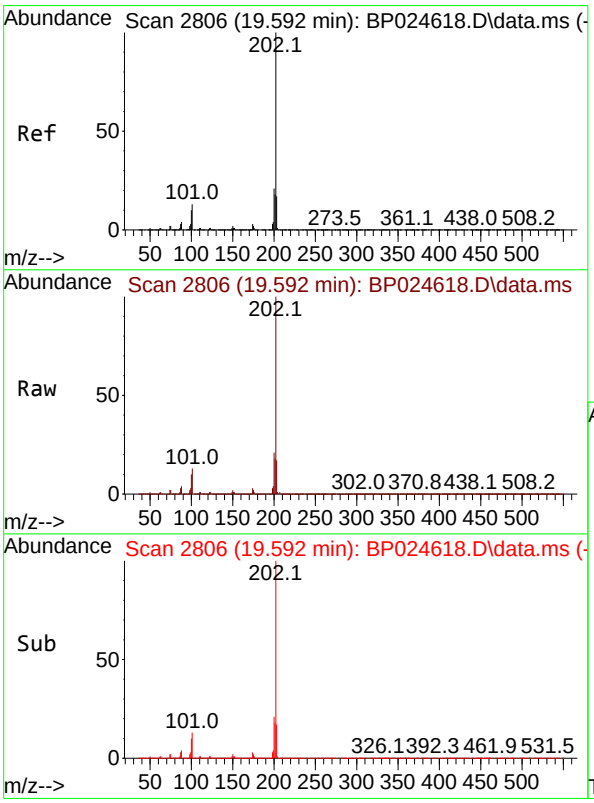
#77
Benzidine
Concen: 40.774 ng
RT: 19.416 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:184 Resp: 907109

Ion	Ratio	Lower	Upper
184	100		
185	14.0	11.2	16.8
183	12.3	9.8	14.8

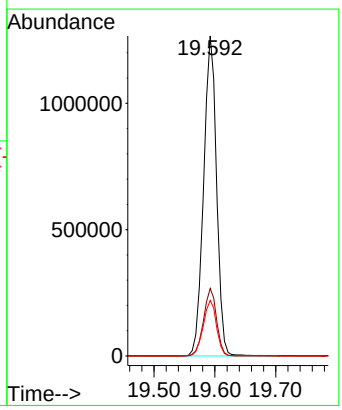


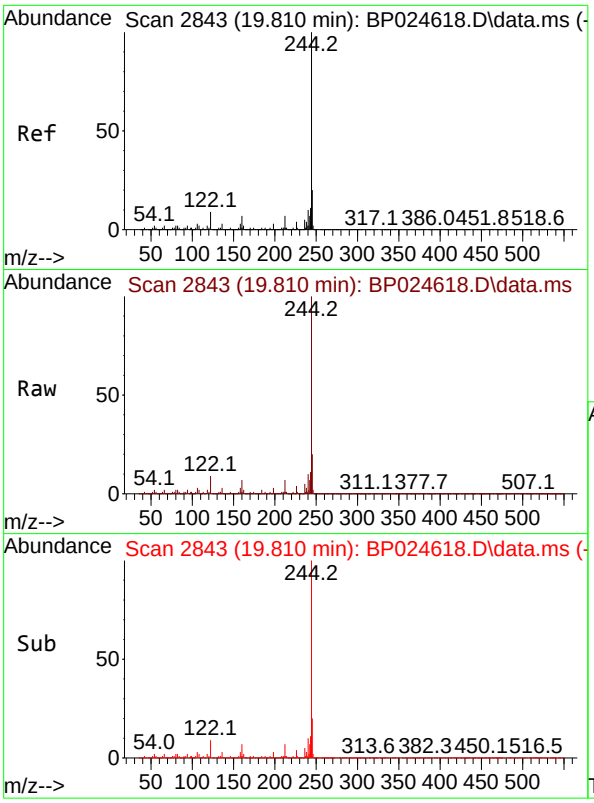


#78
Pyrene
Concen: 38.497 ng
RT: 19.592 min Scan# 2806
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:202 Resp: 1869519

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.4	13.9	20.9



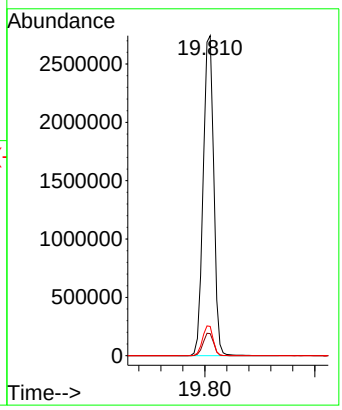


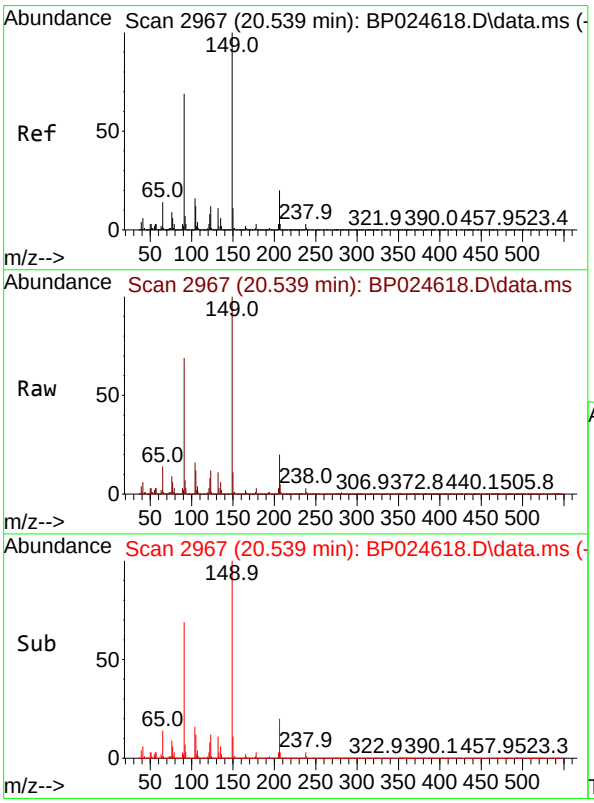
#79
Terphenyl-d14
Concen: 77.176 ng
RT: 19.810 min Scan# 2
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:244 Resp: 3647961

Ion	Ratio	Lower	Upper
244	100		
212	6.9	5.5	8.3
122	9.2	7.4	11.0

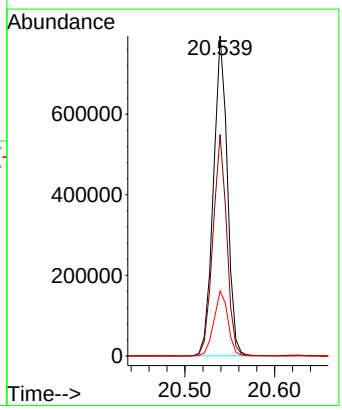


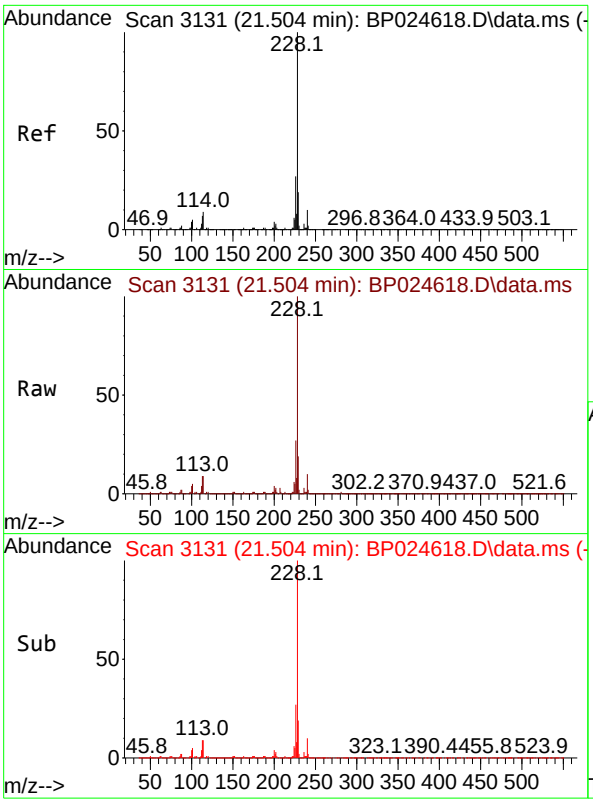


#80
Butylbenzylphthalate
Concen: 39.583 ng
RT: 20.539 min Scan# 2967
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:149 Resp: 854913

Ion	Ratio	Lower	Upper
149	100		
91	69.2	55.4	83.0
206	20.2	16.2	24.2



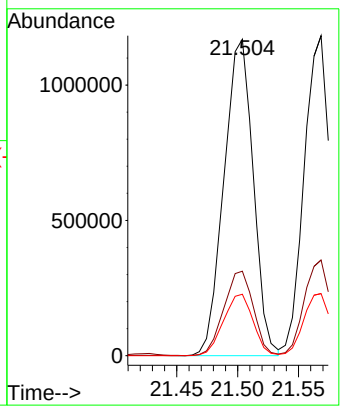


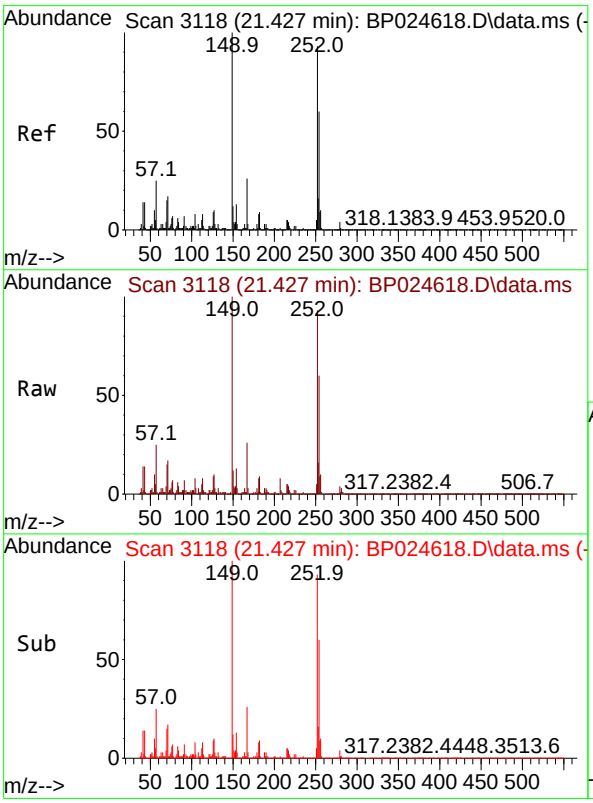
#81
Benzo(a)anthracene
Concen: 38.466 ng
RT: 21.504 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 1957632

Ion	Ratio	Lower	Upper
228	100		
226	26.7	21.4	32.0
229	19.4	15.5	23.3

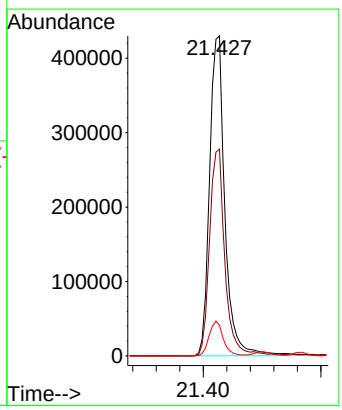


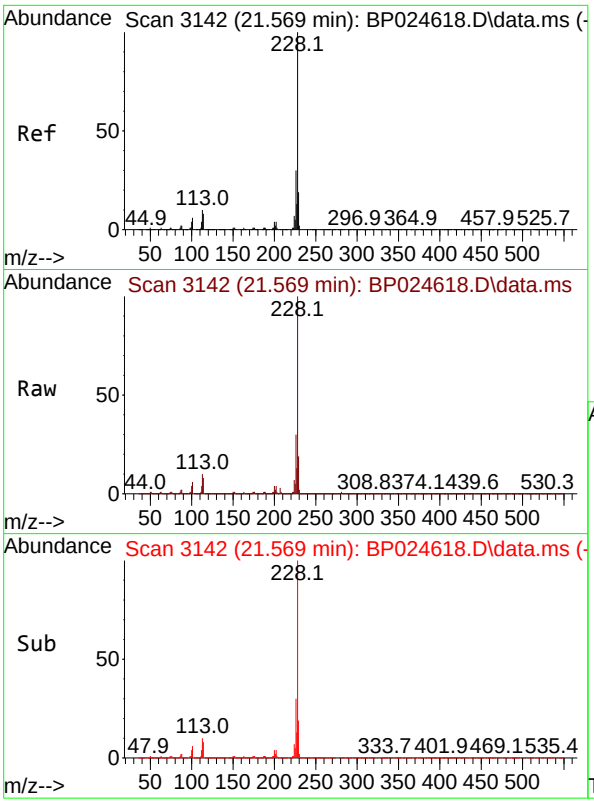


#82
3,3'-Dichlorobenzidine
Concen: 40.940 ng
RT: 21.427 min Scan# 3118
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:252 Resp: 773866

Ion	Ratio	Lower	Upper
252	100		
254	64.7	51.8	77.6
126	9.6	7.7	11.5



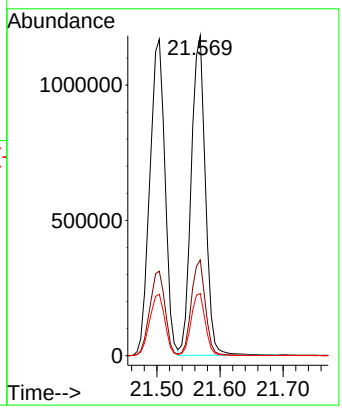


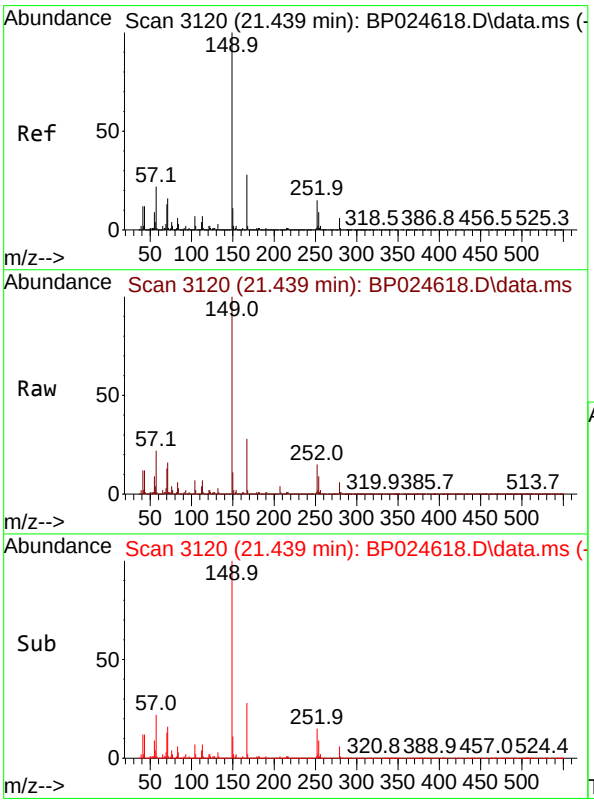
#83
Chrysene
Concen: 38.014 ng
RT: 21.569 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:228 Resp: 1833959

Ion	Ratio	Lower	Upper
228	100		
226	29.9	23.9	35.9
229	19.4	15.5	23.3

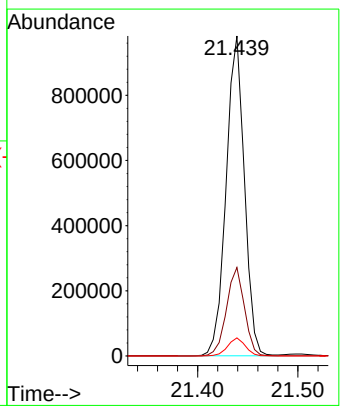


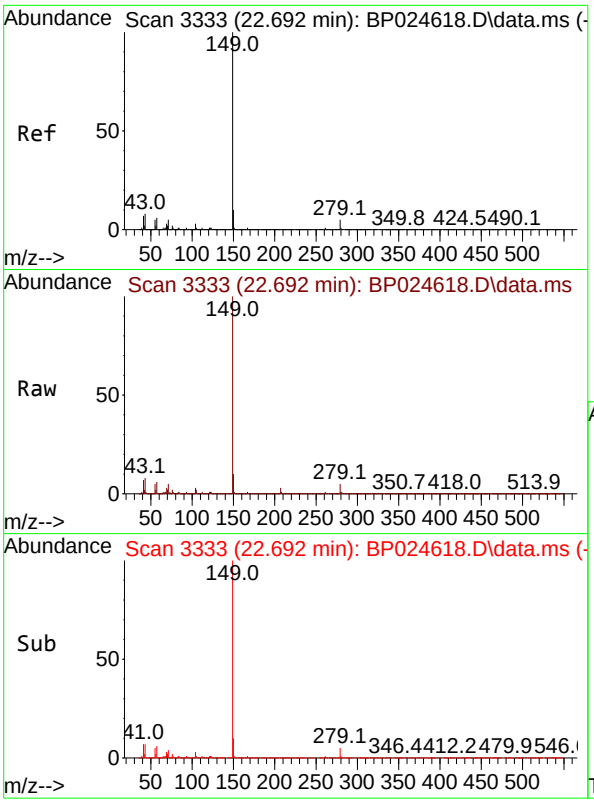


#84
Bis(2-ethylhexyl)phthalate
Concen: 39.091 ng
RT: 21.439 min Scan# 3120
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:149 Resp: 1240956

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.1	33.1
279	5.7	4.6	6.8



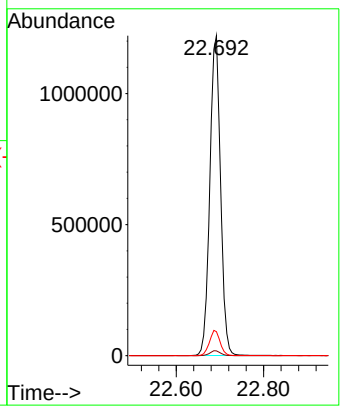


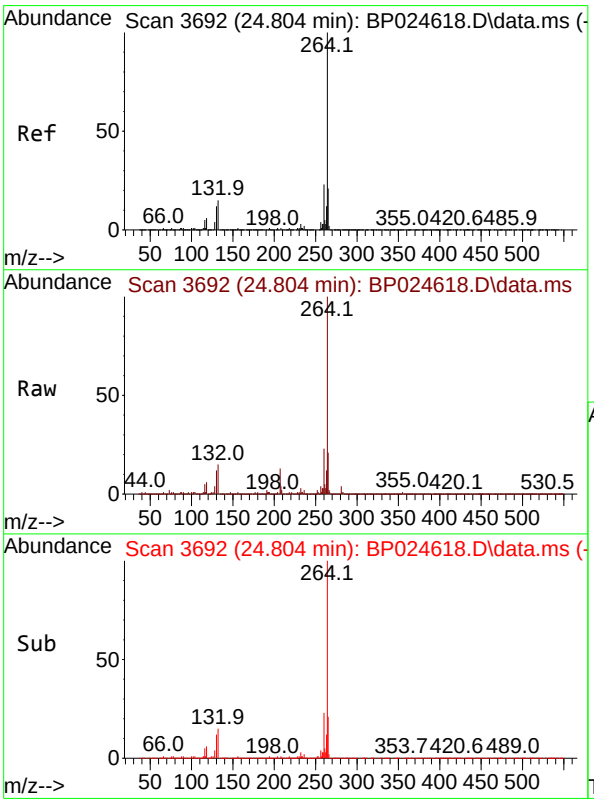
#85
Di-n-octyl phthalate
Concen: 39.965 ng
RT: 22.692 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:149 Resp: 2074694

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.2	1.8
43	7.9	6.3	9.5

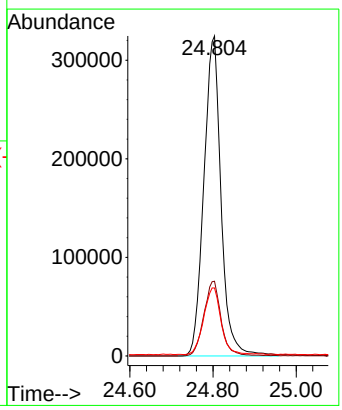


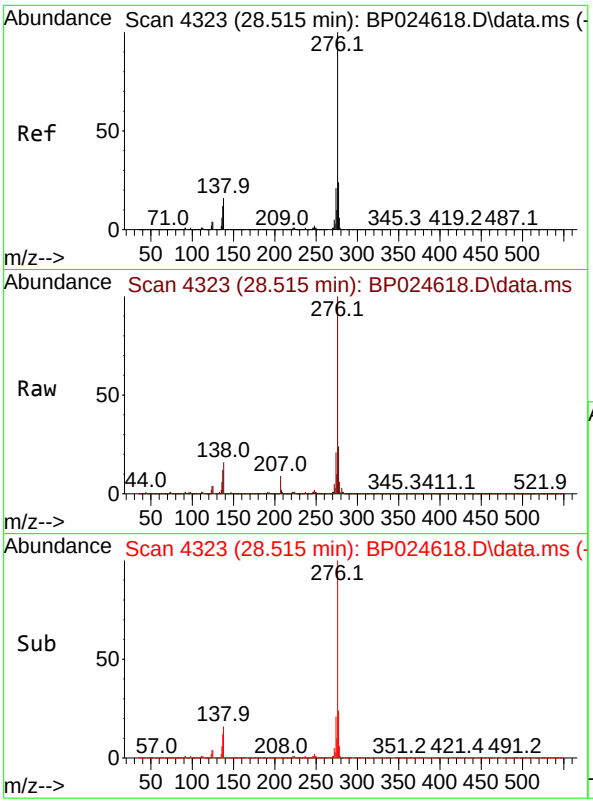


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.804 min Scan# 3692
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:264 Resp: 929890

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.7	28.1
265	21.3	17.0	25.6



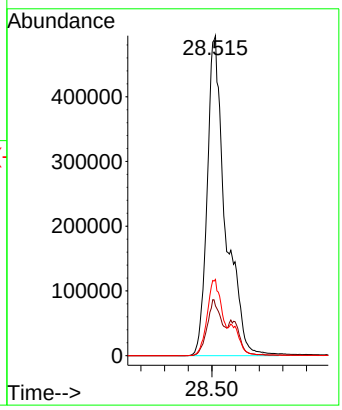


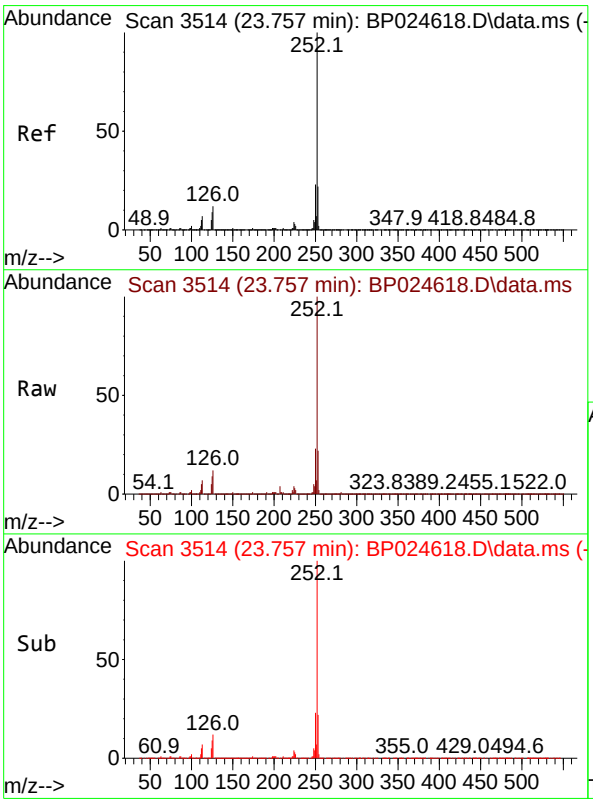
#87
Indeno(1,2,3-cd)pyrene
Concen: 39.003 ng
RT: 28.515 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:276 Resp: 2648648

Ion	Ratio	Lower	Upper
276	100		
138	14.0	11.2	16.8
277	19.6	15.7	23.5

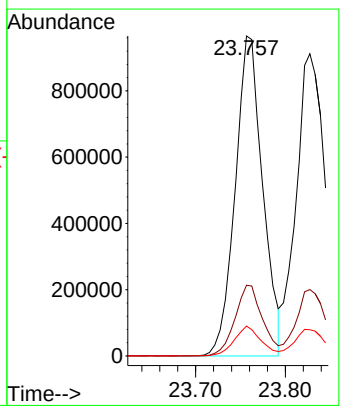


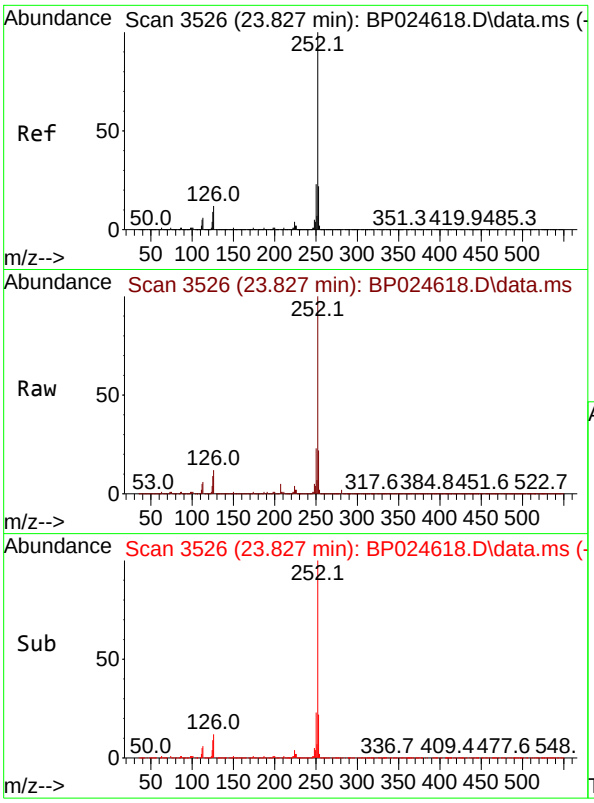


#88
Benzo(b)fluoranthene
Concen: 38.531 ng
RT: 23.757 min Scan# 3514
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:252 Resp: 2050806

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	9.4	7.5	11.3



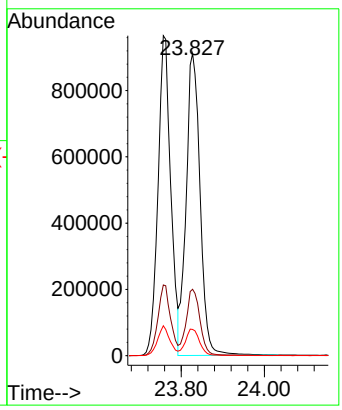


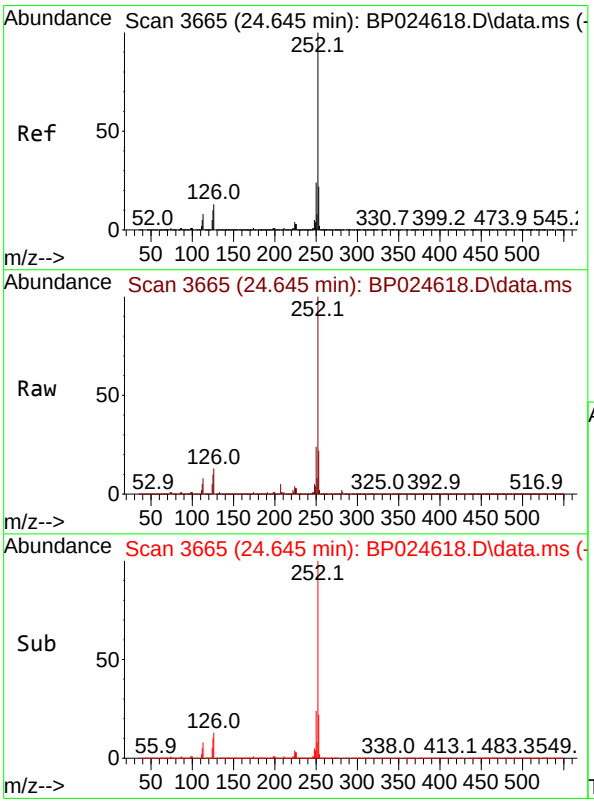
#89
Benzo(k)fluoranthene
Concen: 38.667 ng
RT: 23.827 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:252 Resp: 2120721

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	8.7	7.0	10.4

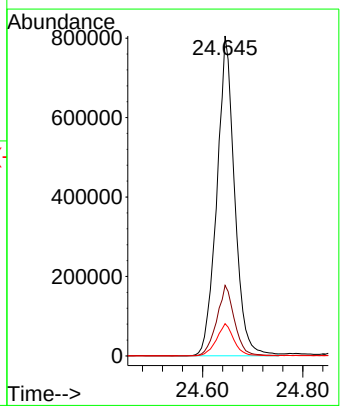


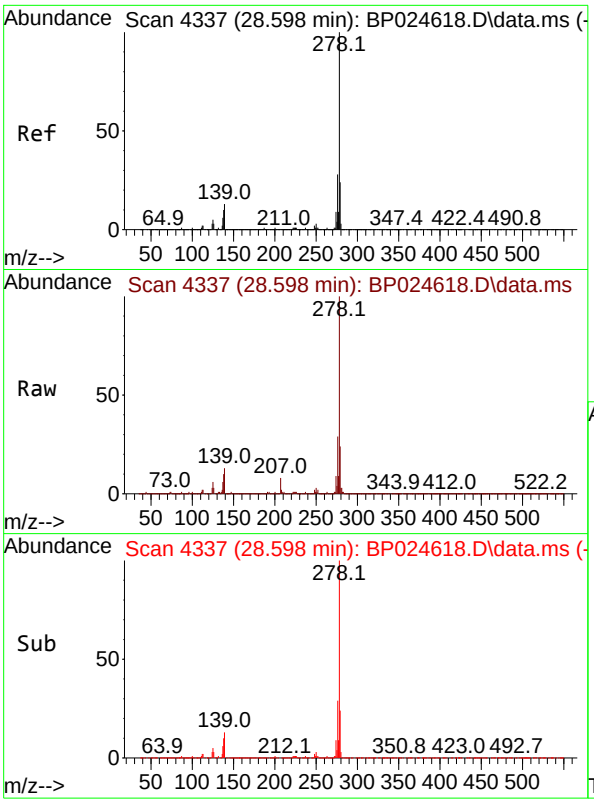


#90
Benzo(a)pyrene
Concen: 38.714 ng
RT: 24.645 min Scan# 3665
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:252 Resp: 1979017

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	10.1	8.1	12.1



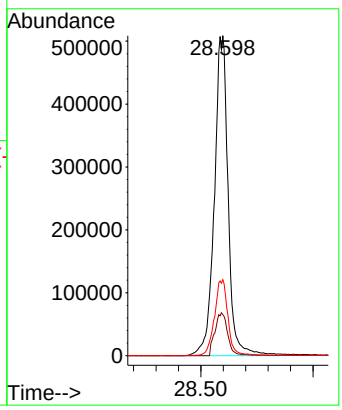


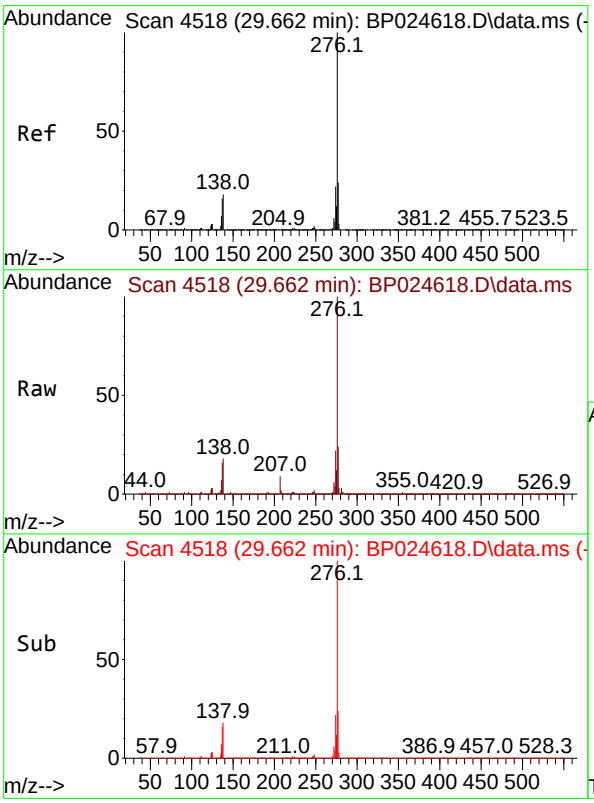
#91
Dibenzo(a,h)anthracene
Concen: 39.304 ng
RT: 28.598 min Scan# 4
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Instrument :
BNA_P
ClientSampleId :
SSTDICCC040

Tgt Ion:278 Resp: 2170712

Ion	Ratio	Lower	Upper
278	100		
139	12.8	10.2	15.4
279	23.7	19.0	28.4

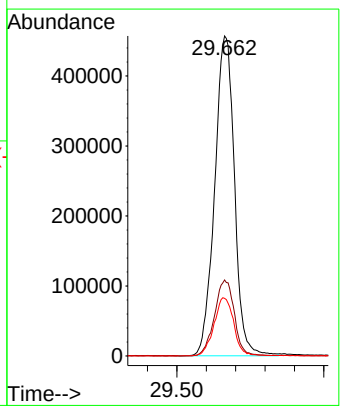




#92
Benzo(g,h,i)perylene
Concen: 38.836 ng
RT: 29.662 min Scan# 4518
Delta R.T. 0.000 min
Lab File: BP024618.D
Acq: 13 May 2025 13:24

Tgt Ion:276 Resp: 2132921

Ion	Ratio	Lower	Upper
276	100		
277	23.7	19.0	28.4
138	18.0	14.4	21.6



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024622.D
Acq On : 13 May 2025 17:01
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.657	152	144423	20.000	ng	0.00
21) Naphthalene-d8	10.434	136	621777	20.000	ng	0.00
39) Acenaphthene-d10	14.292	164	391112	20.000	ng	-0.01
64) Phenanthrene-d10	17.092	188	780511	20.000	ng	0.00
76) Chrysene-d12	21.521	240	868822	20.000	ng	0.00
86) Perylene-d12	24.815	264	1015341	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	658249	77.955	ng	0.00
7) Phenol-d6	6.852	99	852330	79.089	ng	0.00
23) Nitrobenzene-d5	8.810	82	962660	78.227	ng	0.00
42) 2,4,6-Tribromophenol	15.810	330	520660	78.525	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	2290715	76.733	ng	0.00
79) Terphenyl-d14	19.822	244	3889002	76.753	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.222	88	145871	36.789	ng	99
3) Pyridine	3.622	79	347515	39.526	ng	97
4) n-Nitrosodimethylamine	3.528	42	147412	37.979	ng	98
6) Aniline	6.999	93	545556	39.210	ng	100
8) 2-Chlorophenol	7.234	128	377358	39.367	ng	97
9) Benzaldehyde	6.816	77	272303	39.033	ng	99
10) Phenol	6.881	94	434788	39.089	ng	99
11) bis(2-Chloroethyl)ether	7.093	93	346744	37.938	ng	99
12) 1,3-Dichlorobenzene	7.552	146	417899	37.893	ng	98
13) 1,4-Dichlorobenzene	7.699	146	420432	37.904	ng	99
14) 1,2-Dichlorobenzene	8.010	146	409587	37.896	ng	99
15) Benzyl Alcohol	7.904	79	332015	40.541	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.181	45	416339	38.037	ng	99
17) 2-Methylphenol	8.110	107	316066	39.618	ng	99
18) Hexachloroethane	8.728	117	158167	37.211	ng	99
19) n-Nitroso-di-n-propyla...	8.463	70	291961	39.165	ng	99
20) 3+4-Methylphenols	8.434	107	429326	39.562	ng	99
22) Acetophenone	8.475	105	597464	38.468	ng	99
24) Nitrobenzene	8.851	77	416985	38.505	ng	96
25) Isophorone	9.375	82	821637	38.491	ng	99
26) 2-Nitrophenol	9.557	139	218211	41.121	ng	95
27) 2,4-Dimethylphenol	9.622	122	369418	39.484	ng	100
28) bis(2-Chloroethoxy)met...	9.851	93	493722	38.714	ng	100
29) 2,4-Dichlorophenol	10.093	162	364373	40.189	ng	97
30) 1,2,4-Trichlorobenzene	10.298	180	389362	38.109	ng	98
31) Naphthalene	10.481	128	1226624	38.069	ng	100
32) Benzoic acid	9.781	122	223660	36.464	ng	98
33) 4-Chloroaniline	10.598	127	524873	40.368	ng	99
34) Hexachlorobutadiene	10.763	225	246776	37.285	ng	98
35) Caprolactam	11.387	113	130399	39.752	ng	99
36) 4-Chloro-3-methylphenol	11.740	107	431344	39.013	ng	100
37) 2-Methylnaphthalene	12.098	142	789724	37.852	ng	99
38) 1-Methylnaphthalene	12.316	142	833521	37.339	ng	100
40) 1,2,4,5-Tetrachloroben...	12.469	216	444420	39.130	ng	100
41) Hexachlorocyclopentadiene	12.445	237	305575	44.371	ng	98
43) 2,4,6-Trichlorophenol	12.716	196	305651	41.549	ng	99

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024622.D
Acq On : 13 May 2025 17:01
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	336252	41.064	ng		97
46) 1,1'-Biphenyl	13.116	154	1124669	38.906	ng		99
47) 2-Chloronaphthalene	13.157	162	864853	39.238	ng		98
48) 2-Nitroaniline	13.369	65	264965	40.604	ng		97
49) Acenaphthylene	14.010	152	1419821	38.493	ng		100
50) Dimethylphthalate	13.751	163	1155211	38.751	ng		99
51) 2,6-Dinitrotoluene	13.875	165	247537	39.317	ng		99
52) Acenaphthene	14.357	154	803755	37.904	ng		99
53) 3-Nitroaniline	14.210	138	262737	40.871	ng		100
54) 2,4-Dinitrophenol	14.428	184	135624	37.829	ng		96
55) Dibenzofuran	14.698	168	1282228	37.910	ng		99
56) 4-Nitrophenol	14.545	139	202528	38.698	ng		97
57) 2,4-Dinitrotoluene	14.675	165	354817	39.975	ng		99
58) Fluorene	15.357	166	1059642	38.422	ng		100
59) 2,3,4,6-Tetrachlorophenol	14.934	232	298327	39.274	ng		99
60) Diethylphthalate	15.134	149	1150091	38.171	ng		100
61) 4-Chlorophenyl-phenyle...	15.357	204	526066	38.249	ng		99
62) 4-Nitroaniline	15.398	138	265185	42.722	ng		98
63) Azobenzene	15.657	77	1000653	38.822	ng		98
65) 4,6-Dinitro-2-methylph...	15.451	198	203200	40.305	ng		98
66) n-Nitrosodiphenylamine	15.575	169	920187	38.382	ng		100
67) 4-Bromophenyl-phenylether	16.269	248	357846	38.909	ng		97
68) Hexachlorobenzene	16.386	284	446142	38.175	ng		99
69) Atrazine	16.551	200	347661	39.570	ng		99
70) Pentachlorophenol	16.739	266	269781	41.124	ng		99
71) Phenanthrene	17.133	178	1629118	37.546	ng		99
72) Anthracene	17.228	178	1669395	38.241	ng		100
73) Carbazole	17.510	167	1563685	39.575	ng		99
74) Di-n-butylphthalate	18.098	149	1978741	38.939	ng		100
75) Fluoranthene	19.222	202	1956043	38.566	ng		100
77) Benzidine	19.422	184	1023514	43.253	ng		99
78) Pyrene	19.604	202	1992845	38.281	ng		100
80) Butylbenzylphthalate	20.557	149	938210	40.523	ng		96
81) Benzo(a)anthracene	21.510	228	2121561	38.889	ng		99
82) 3,3'-Dichlorobenzidine	21.433	252	861323	42.508	ng		100
83) Chrysene	21.574	228	1976940	38.227	ng		99
84) Bis(2-ethylhexyl)phtha...	21.445	149	1375919	40.433	ng		100
85) Di-n-octyl phthalate	22.698	149	2321673	41.721	ng		100
87) Indeno(1,2,3-cd)pyrene	28.515	276	1096892	14.798	ng	#	66
88) Benzo(b)fluoranthene	23.768	252	2283322	39.289	ng		100
89) Benzo(k)fluoranthene	23.833	252	2289000	38.223	ng		100
90) Benzo(a)pyrene	24.668	252	2177020	39.004	ng		99
91) Dibenzo(a,h)anthracene	28.615	278	2374558	39.377	ng		100
92) Benzo(g,h,i)perylene	29.686	276	2333151	38.906	ng		100

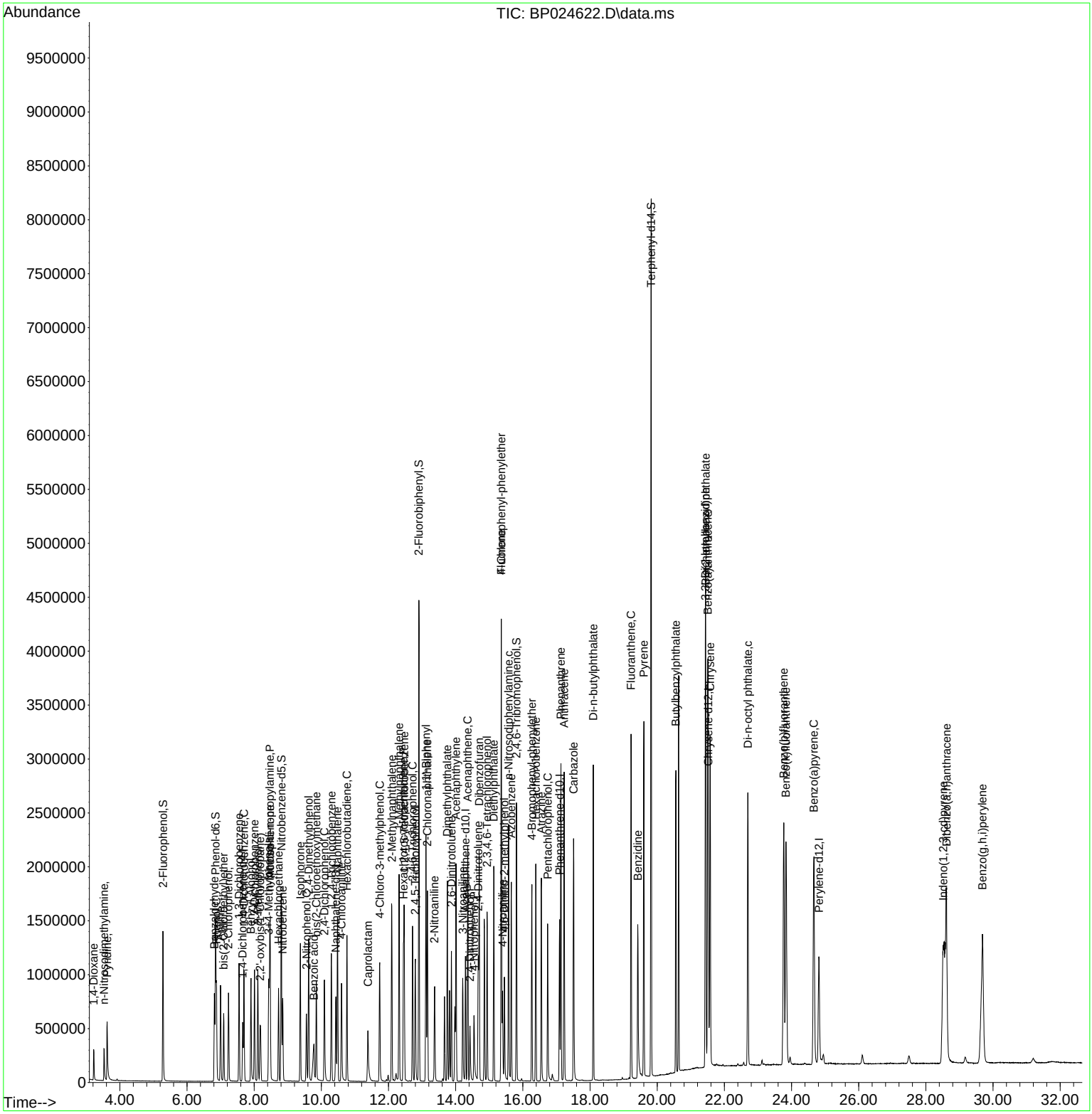
(#) = qualifier out of range (m) = manual integration (+) = signals summed

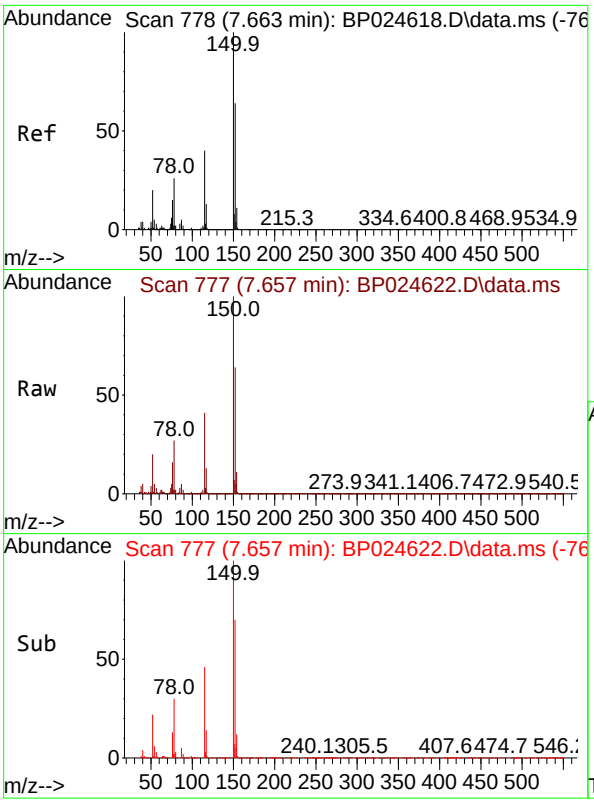
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051325\
Data File : BP024622.D
Acq On : 13 May 2025 17:01
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Quant Time: May 13 18:01:40 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



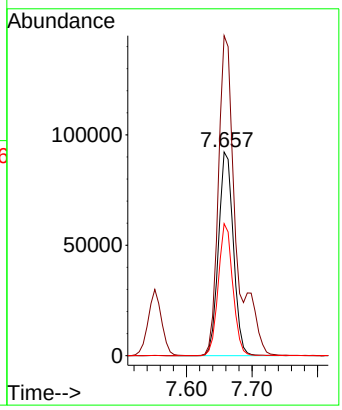


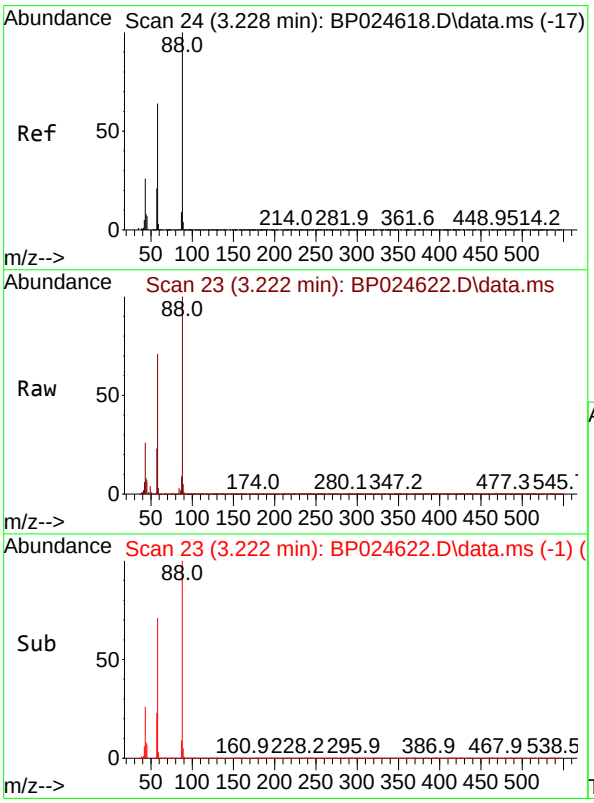
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.657 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:152 Resp: 144423

Ion	Ratio	Lower	Upper
152	100		
150	157.1	125.9	188.9
115	64.8	50.1	75.1

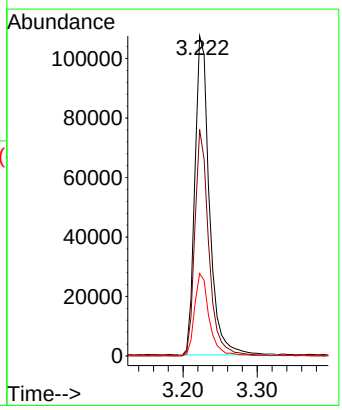


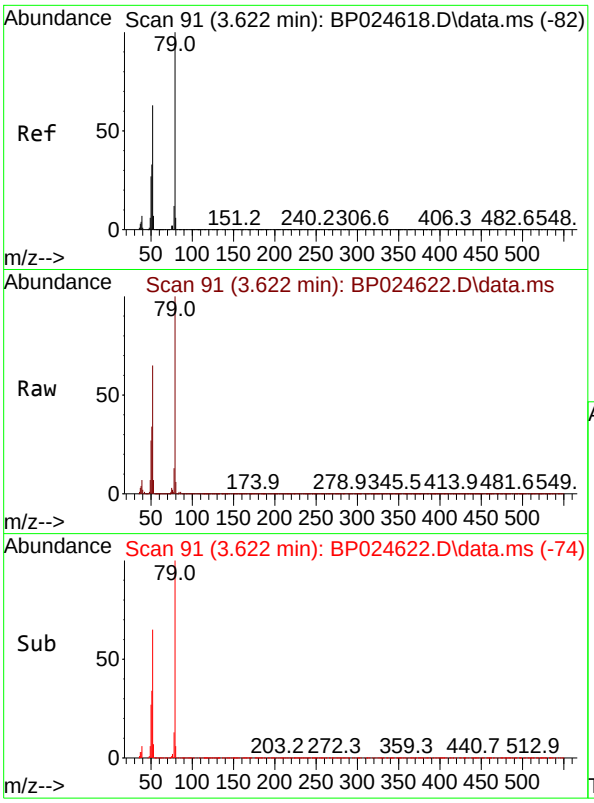


#2
1,4-Dioxane
Concen: 36.789 ng
RT: 3.222 min Scan# 23
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 88 Resp: 145871

Ion	Ratio	Lower	Upper
88	100		
58	68.6	54.0	81.0
43	25.9	21.4	32.0



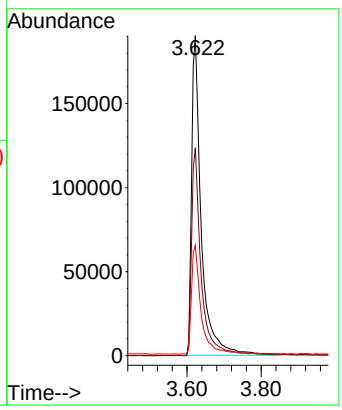


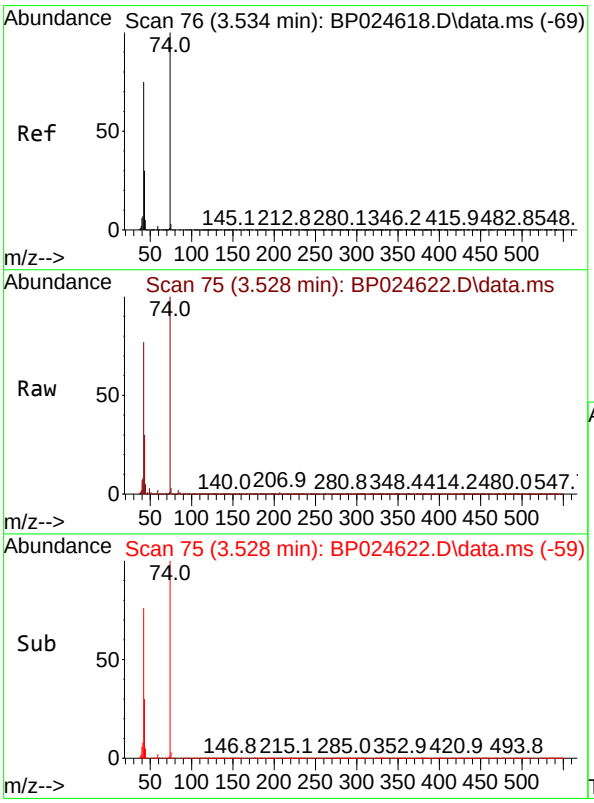
#3
Pyridine
Concen: 39.526 ng
RT: 3.622 min Scan# 91
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion: 79 Resp: 347515

Ion	Ratio	Lower	Upper
79	100		
52	65.0	50.2	75.2
51	34.5	26.8	40.2

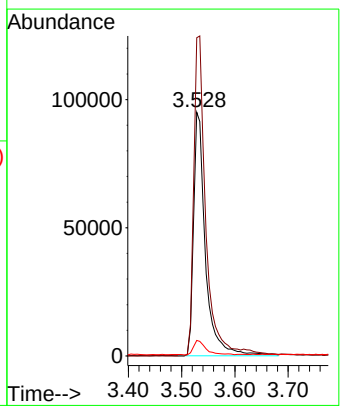


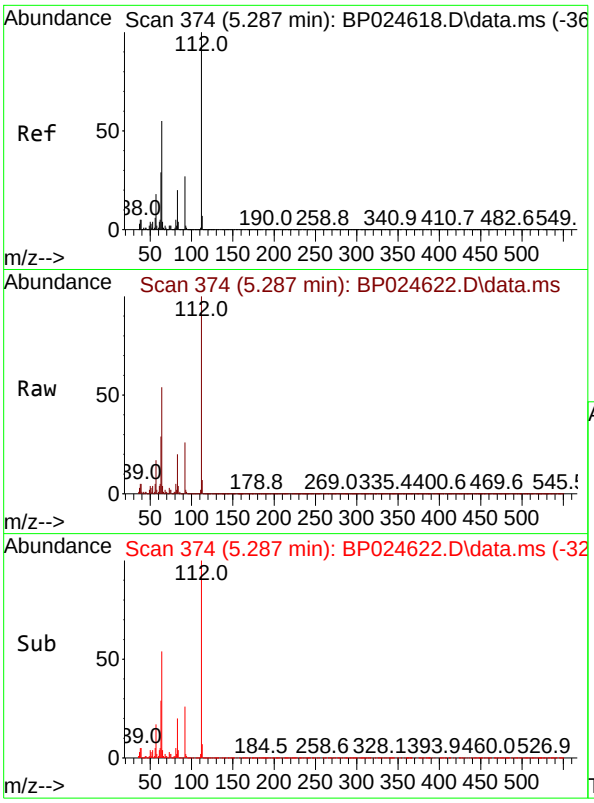


#4
n-Nitrosodimethylamine
Concen: 37.979 ng
RT: 3.528 min Scan# 75
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 42 Resp: 147412

Ion	Ratio	Lower	Upper
42	100		
74	130.6	106.2	159.2
44	6.4	5.4	8.2



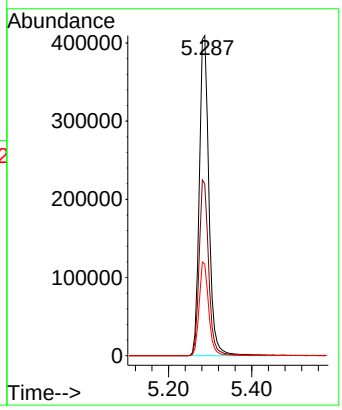


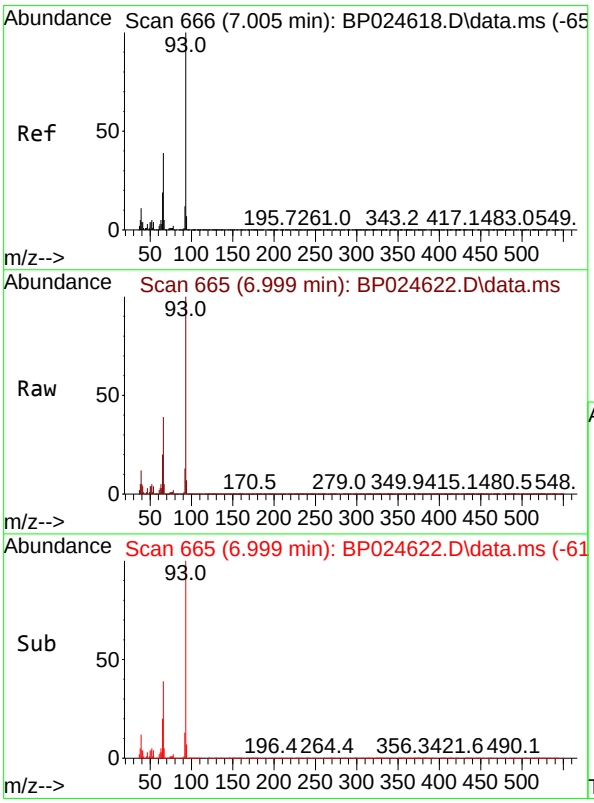
#5
2-Fluorophenol
Concen: 77.955 ng
RT: 5.287 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:112 Resp: 658249

Ion	Ratio	Lower	Upper
112	100		
64	53.7	44.1	66.1
63	28.7	23.5	35.3

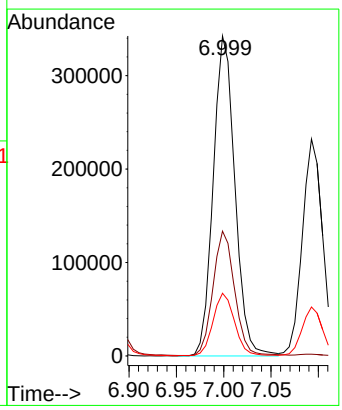


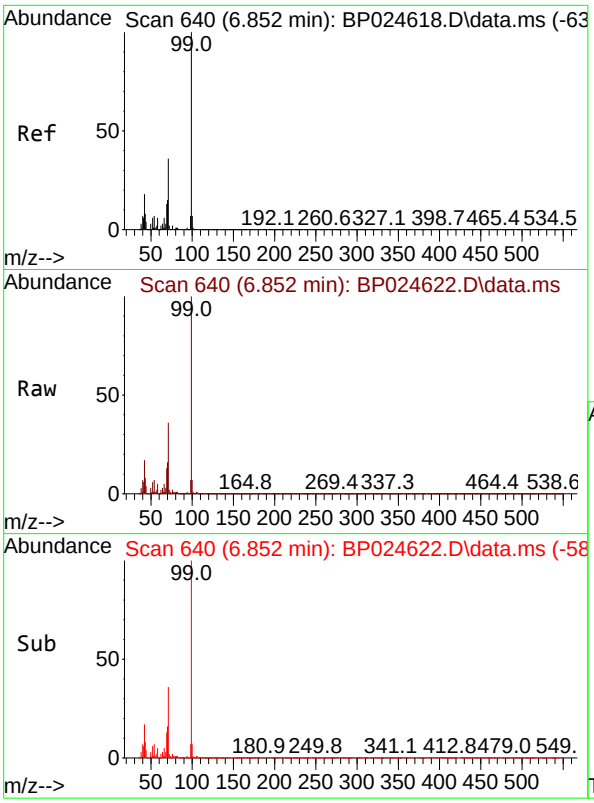


#6
Aniline
Concen: 39.210 ng
RT: 6.999 min Scan# 665
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 93 Resp: 545556

Ion	Ratio	Lower	Upper
93	100		
66	39.0	31.0	46.6
65	19.6	15.5	23.3



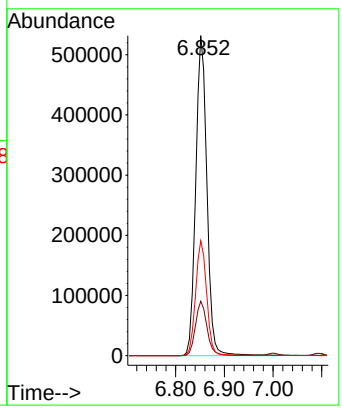


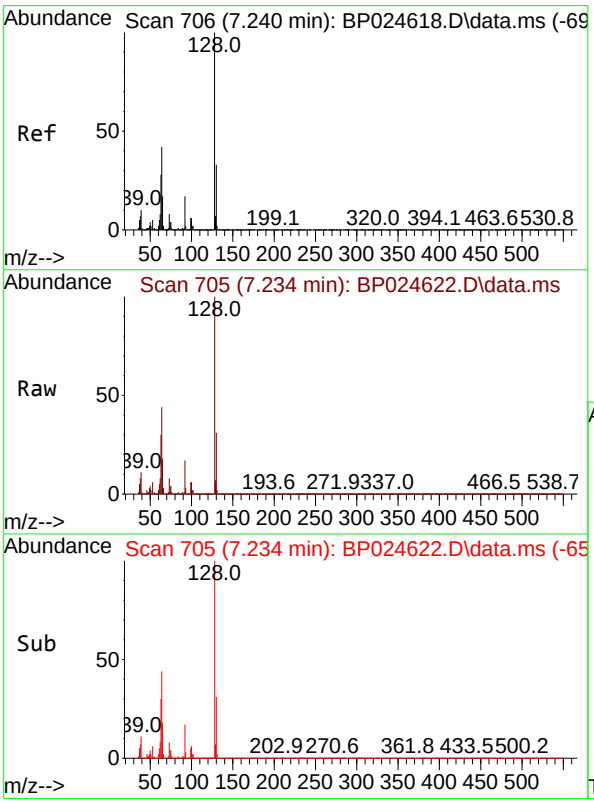
#7
Phenol-d6
Concen: 79.089 ng
RT: 6.852 min Scan# 64
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion: 99 Resp: 852330

Ion	Ratio	Lower	Upper
99	100		
42	17.0	14.4	21.6
71	35.9	29.2	43.8

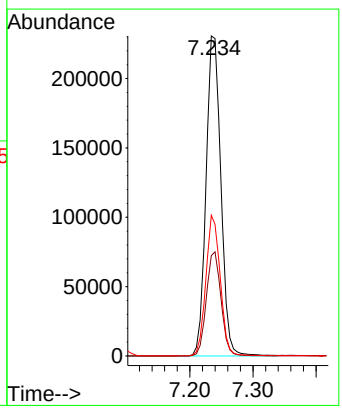


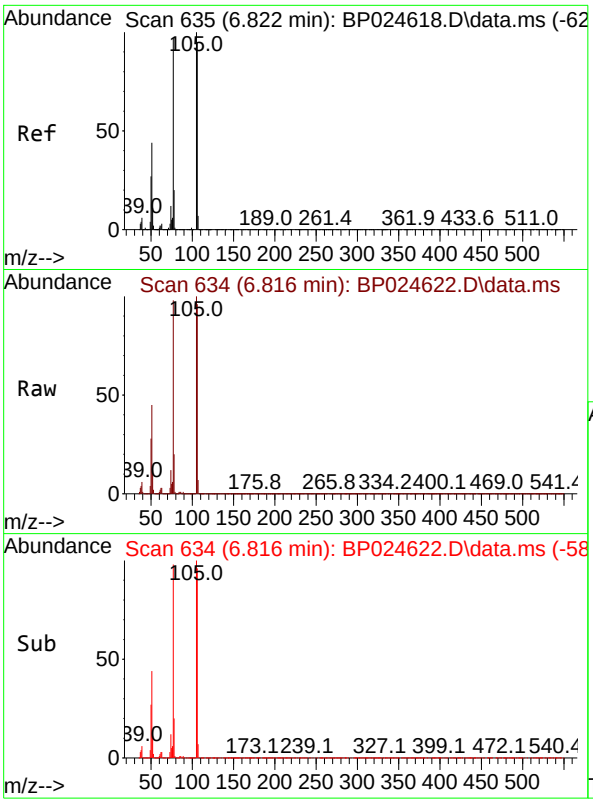


#8
2-Chlorophenol
Concen: 39.367 ng
RT: 7.234 min Scan# 705
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:128 Resp: 377358

Ion	Ratio	Lower	Upper
128	100		
130	31.4	13.0	53.0
64	43.9	22.3	62.3



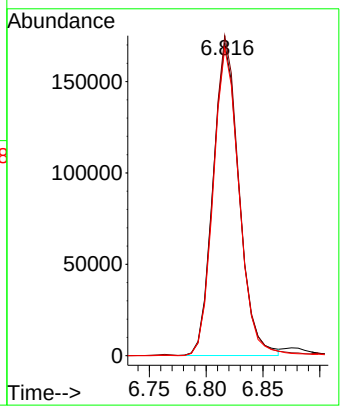


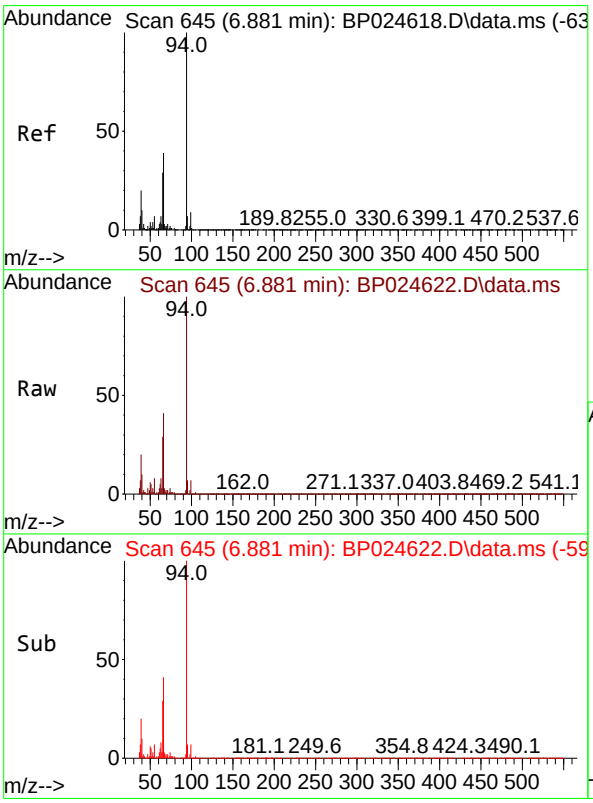
#9
Benzaldehyde
Concen: 39.033 ng
RT: 6.816 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion: 77 Resp: 272303

Ion	Ratio	Lower	Upper
77	100		
105	102.4	83.3	123.3
106	98.5	78.0	118.0

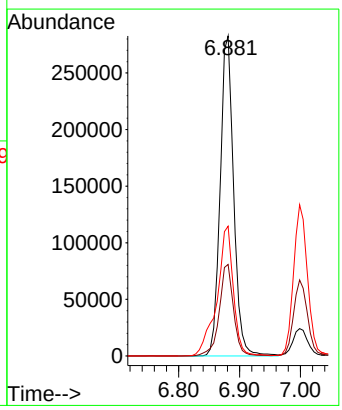


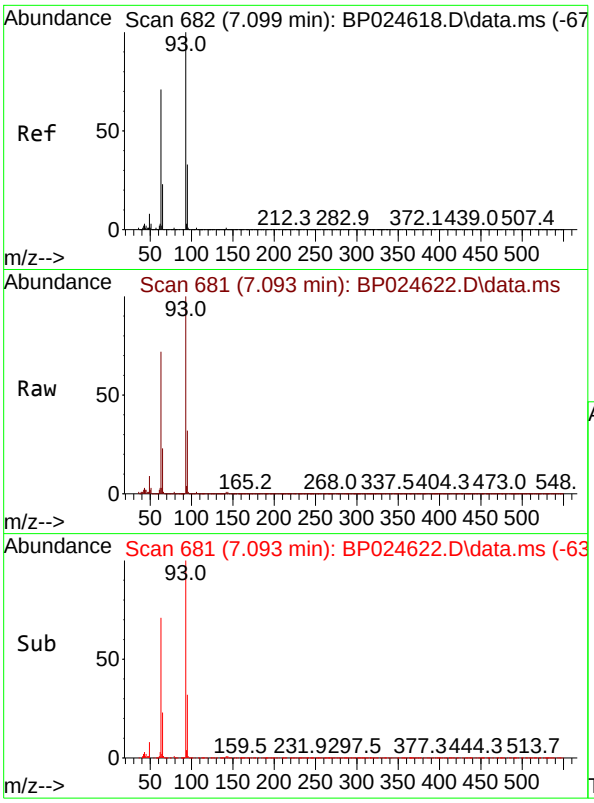


#10
Phenol
Concen: 39.089 ng
RT: 6.881 min Scan# 645
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 94 Resp: 434788

Ion	Ratio	Lower	Upper
94	100		
65	28.6	8.7	48.7
66	40.5	19.4	59.4



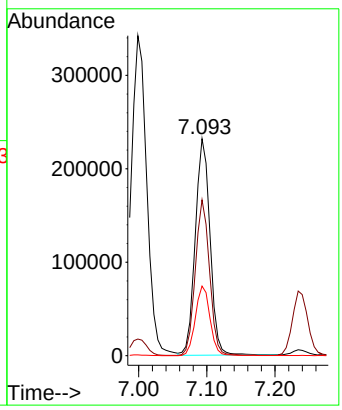


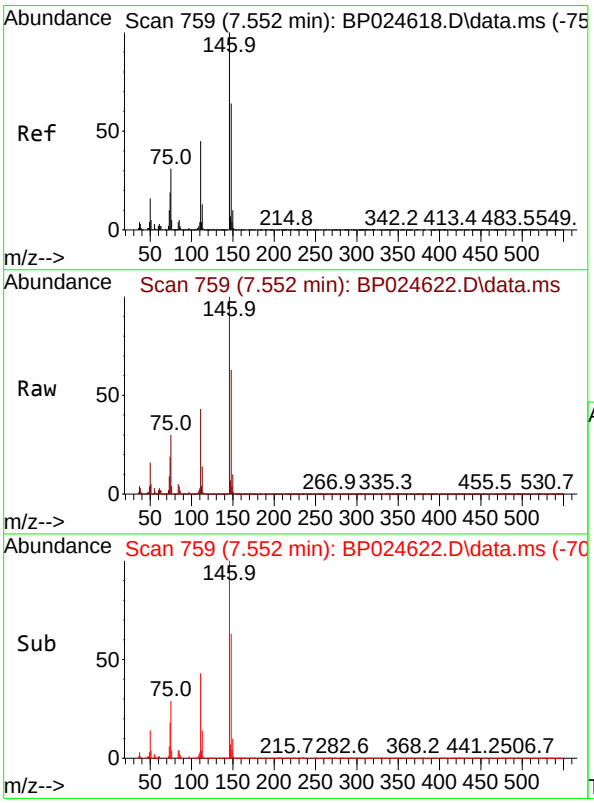
#11
bis(2-Chloroethyl)ether
Concen: 37.938 ng
RT: 7.093 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion: 93 Resp: 346744

Ion	Ratio	Lower	Upper
93	100		
63	71.9	50.6	90.6
95	32.1	12.9	52.9

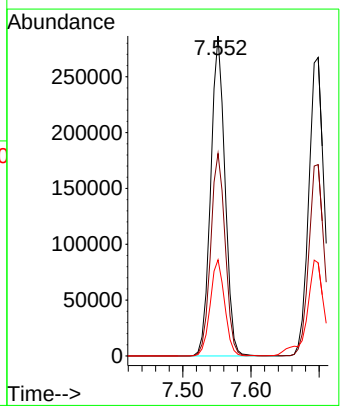


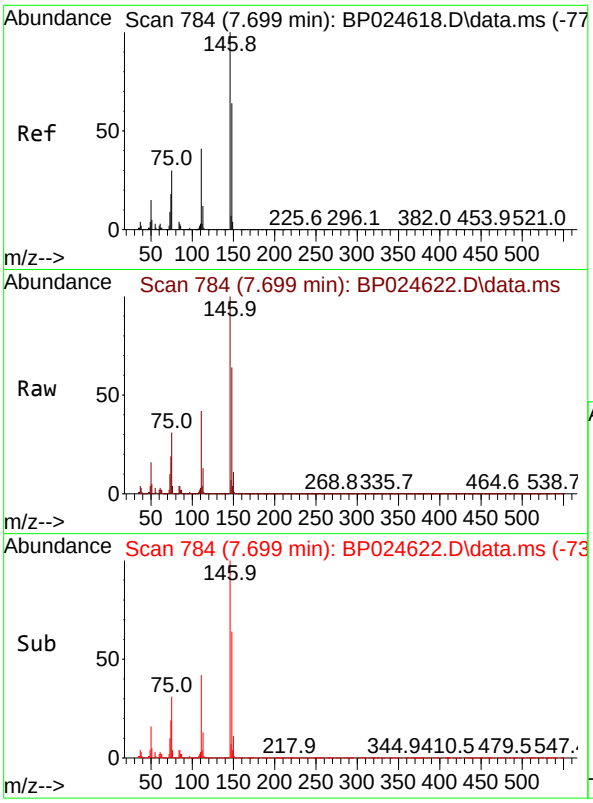


#12
1,3-Dichlorobenzene
Concen: 37.893 ng
RT: 7.552 min Scan# 759
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:146 Resp: 417899

Ion	Ratio	Lower	Upper
146	100		
148	63.3	51.4	77.2
75	30.1	25.2	37.8



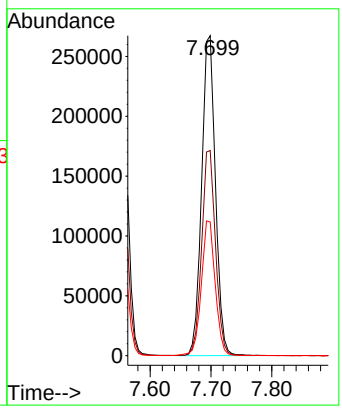


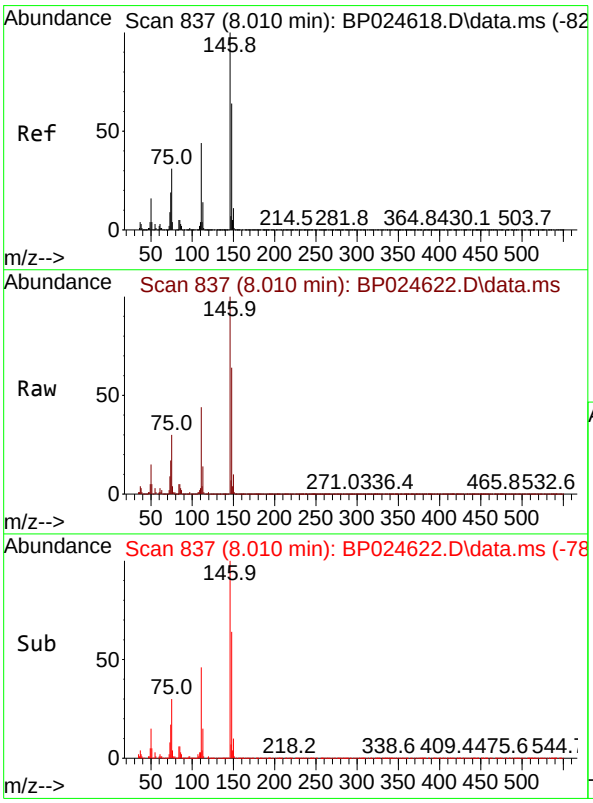
#13
1,4-Dichlorobenzene
Concen: 37.904 ng
RT: 7.699 min Scan# 7
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:146 Resp: 420432

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.0	76.6
111	41.8	33.0	49.6

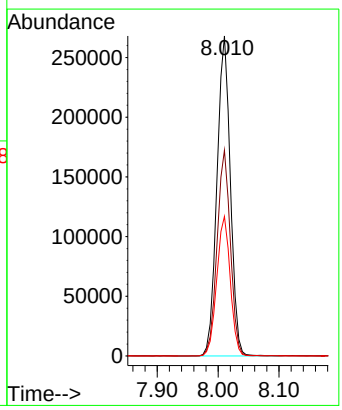


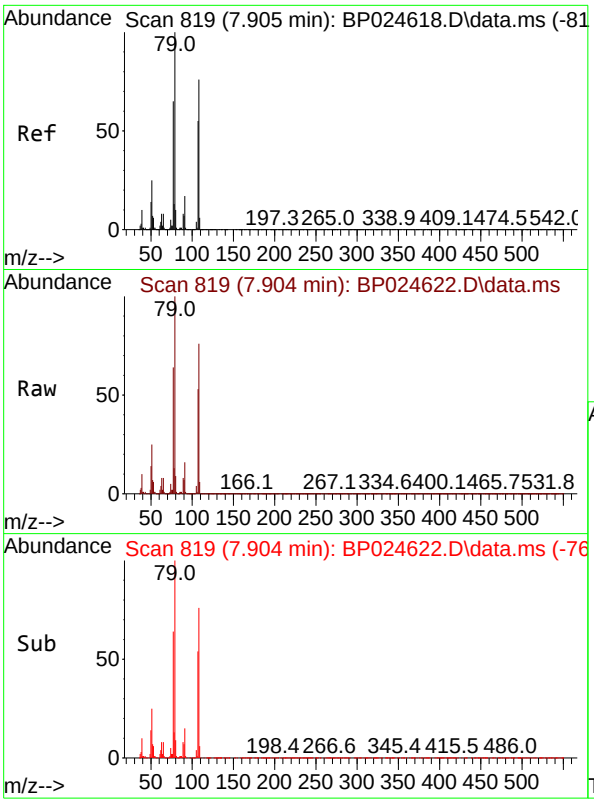


#14
1,2-Dichlorobenzene
Concen: 37.896 ng
RT: 8.010 min Scan# 837
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:146 Resp: 409587

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.0	76.4
111	43.6	35.2	52.8



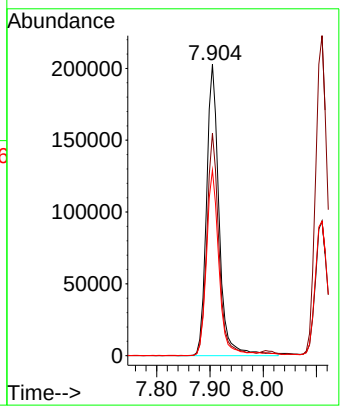


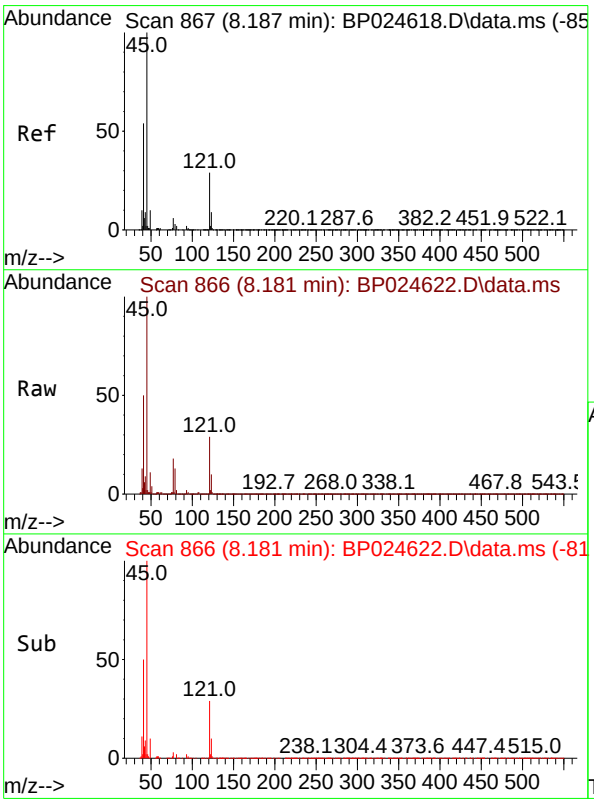
#15
Benzyl Alcohol
Concen: 40.541 ng
RT: 7.904 min Scan# 81
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion: 79 Resp: 332015

Ion	Ratio	Lower	Upper
79	100		
108	76.4	60.8	91.2
77	63.7	51.9	77.9

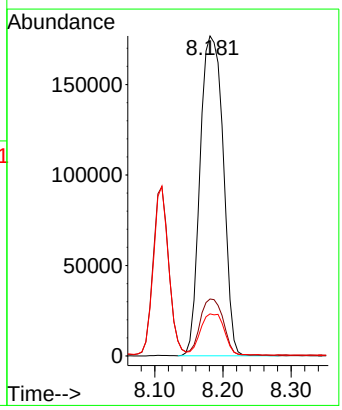


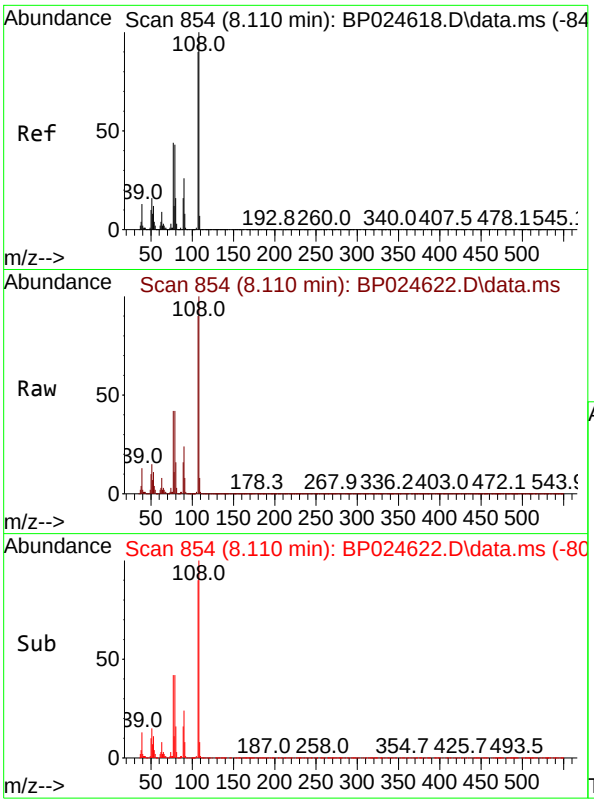


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.037 ng
RT: 8.181 min Scan# 866
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 45 Resp: 416339

Ion	Ratio	Lower	Upper
45	100		
77	17.8	0.0	37.7
79	13.2	0.0	34.0



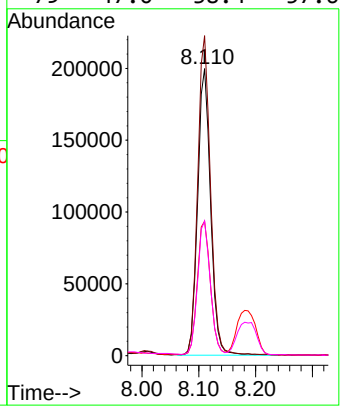


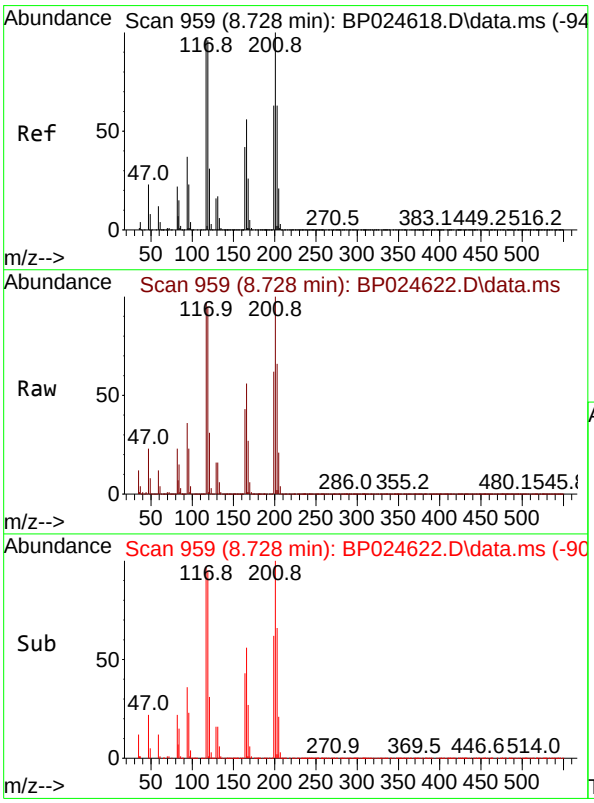
#17
2-Methylphenol
Concen: 39.618 ng
RT: 8.110 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:107 Resp: 316066

Ion	Ratio	Lower	Upper
107	100		
108	111.5	88.9	133.3
77	46.8	39.0	58.6
79	47.0	38.4	57.6

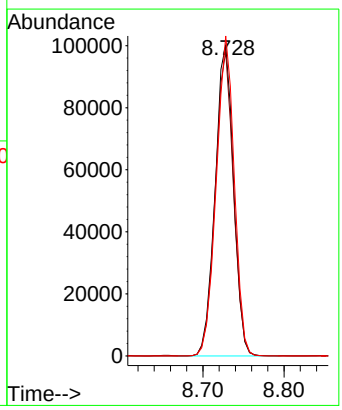


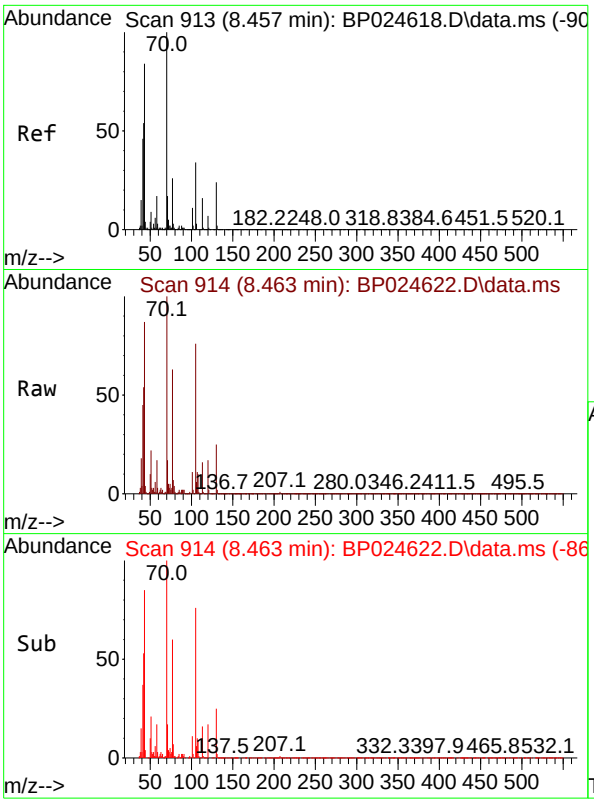


#18
Hexachloroethane
Concen: 37.211 ng
RT: 8.728 min Scan# 959
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:117 Resp: 158167

Ion	Ratio	Lower	Upper
117	100		
119	97.9	79.4	119.0
201	103.0	82.7	124.1



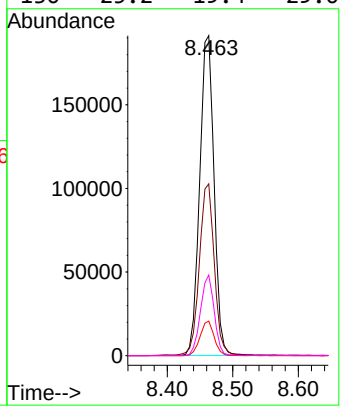


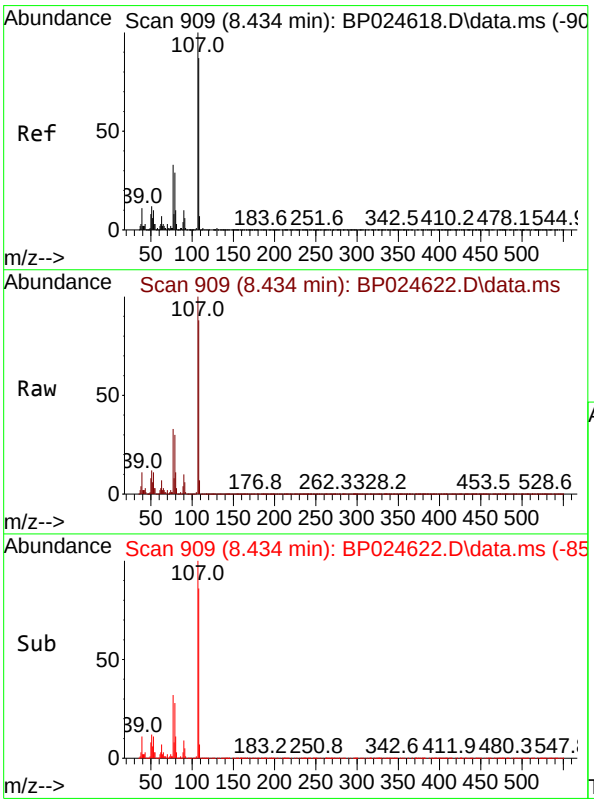
#19
n-Nitroso-di-n-propylamine
Concen: 39.165 ng
RT: 8.463 min Scan# 91
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion: 70 Resp: 291961

Ion	Ratio	Lower	Upper
70	100		
42	53.7	43.0	64.6
101	10.8	8.7	13.1
130	25.2	19.4	29.0

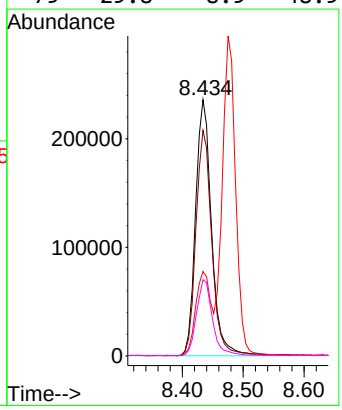


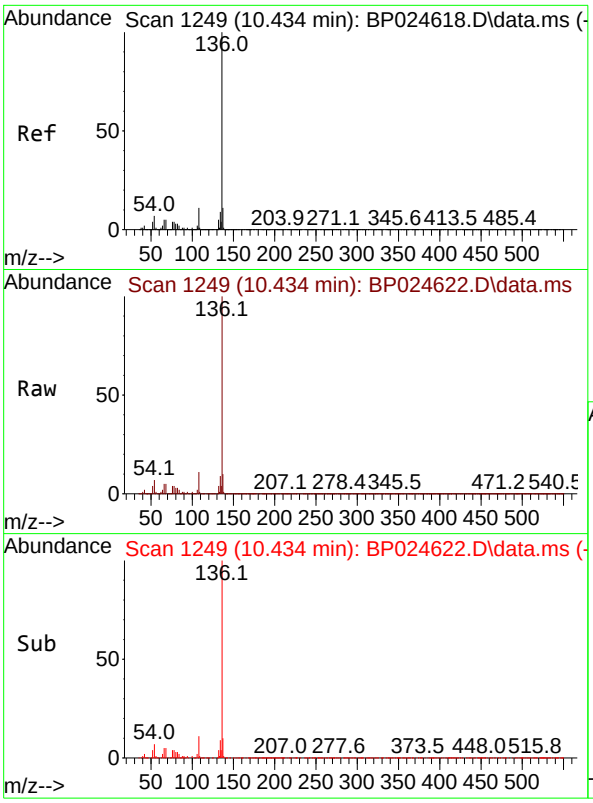


#20
3+4-Methylphenols
Concen: 39.562 ng
RT: 8.434 min Scan# 909
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:107 Resp: 429326

Ion	Ratio	Lower	Upper
107	100		
108	88.1	66.7	106.7
77	33.0	13.1	53.1
79	29.8	8.9	48.9



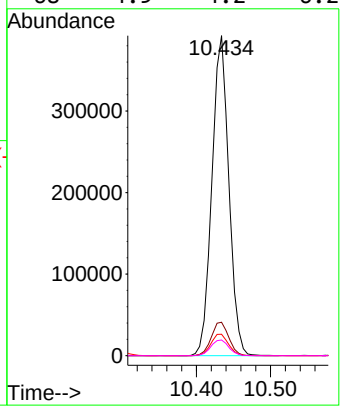


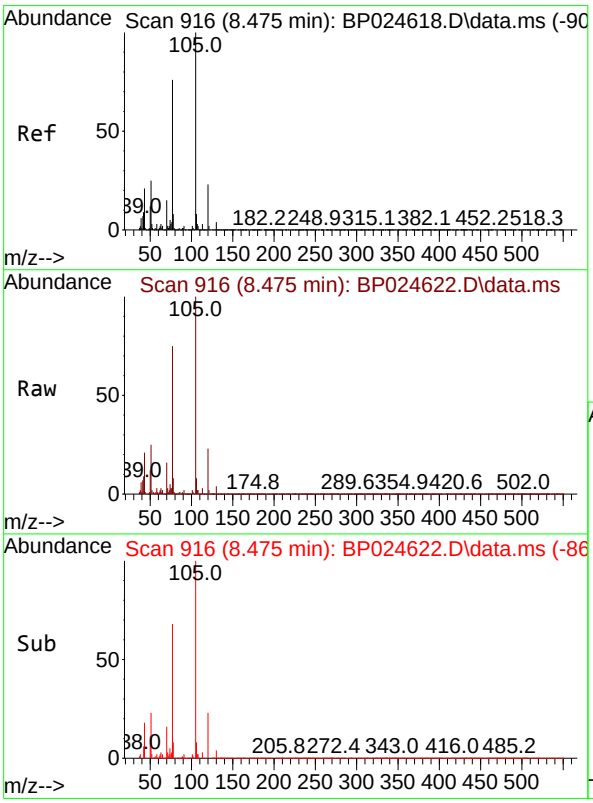
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.434 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:136 Resp: 621777

Ion	Ratio	Lower	Upper
136	100		
137	10.4	8.8	13.2
54	6.7	5.5	8.3
68	4.9	4.2	6.2

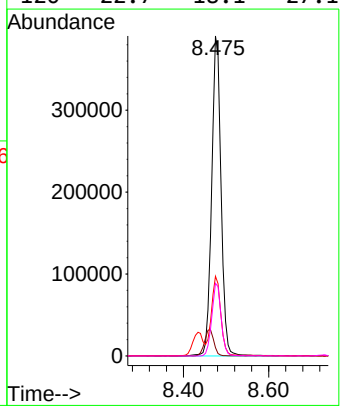


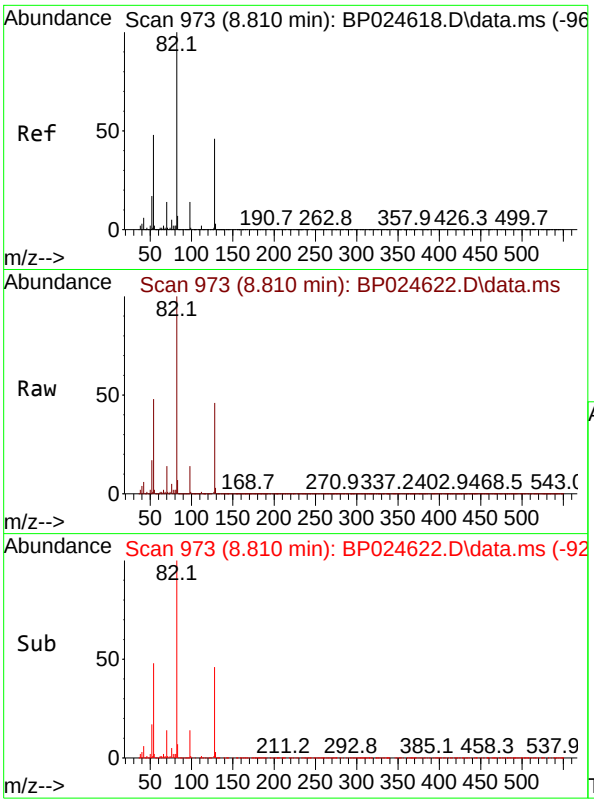


#22
Acetophenone
Concen: 38.468 ng
RT: 8.475 min Scan# 916
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:105 Resp: 597464

Ion	Ratio	Lower	Upper
105	100		
71	2.6	2.0	3.0
51	24.9	20.4	30.6
120	22.7	18.1	27.1



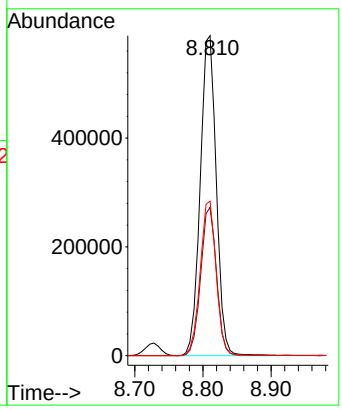


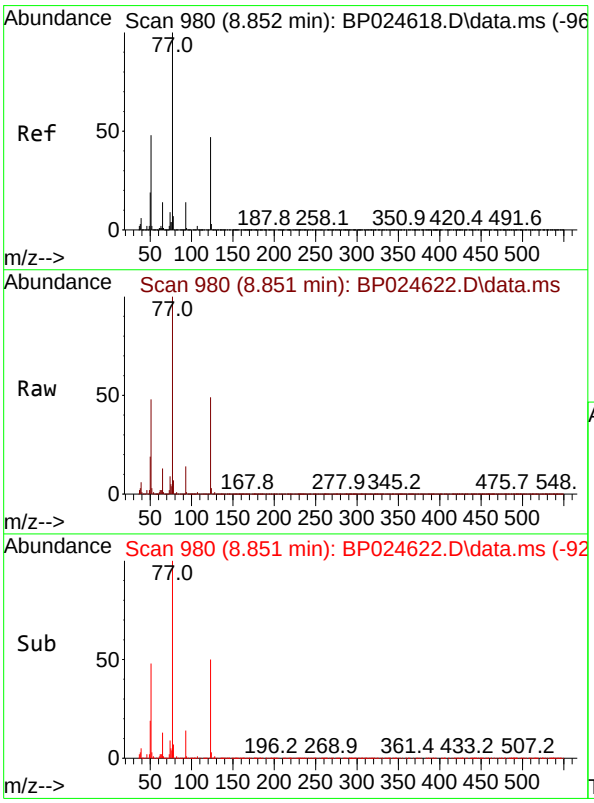
#23
Nitrobenzene-d5
Concen: 78.227 ng
RT: 8.810 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion: 82 Resp: 962660

Ion	Ratio	Lower	Upper
82	100		
128	46.4	37.0	55.4
54	48.3	38.7	58.1

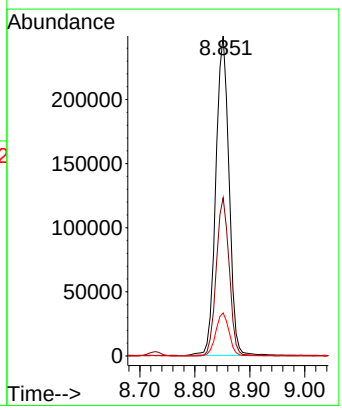


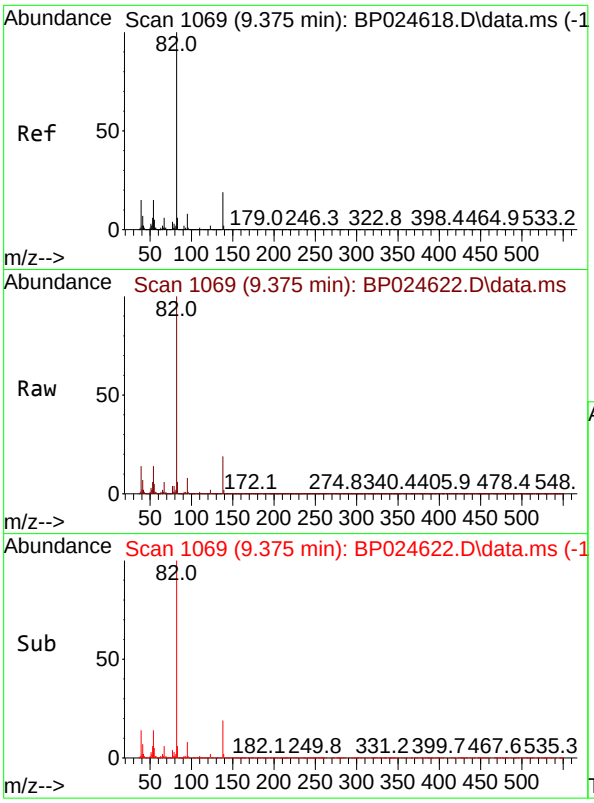


#24
Nitrobenzene
Concen: 38.505 ng
RT: 8.851 min Scan# 980
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 77 Resp: 416985

Ion	Ratio	Lower	Upper
77	100		
123	49.5	37.4	56.0
65	13.5	11.3	16.9



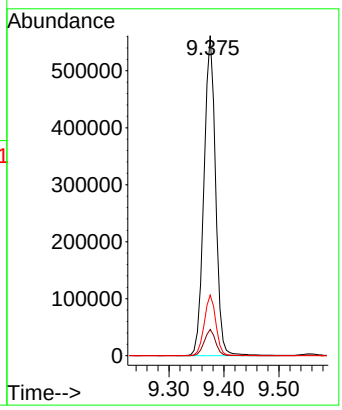


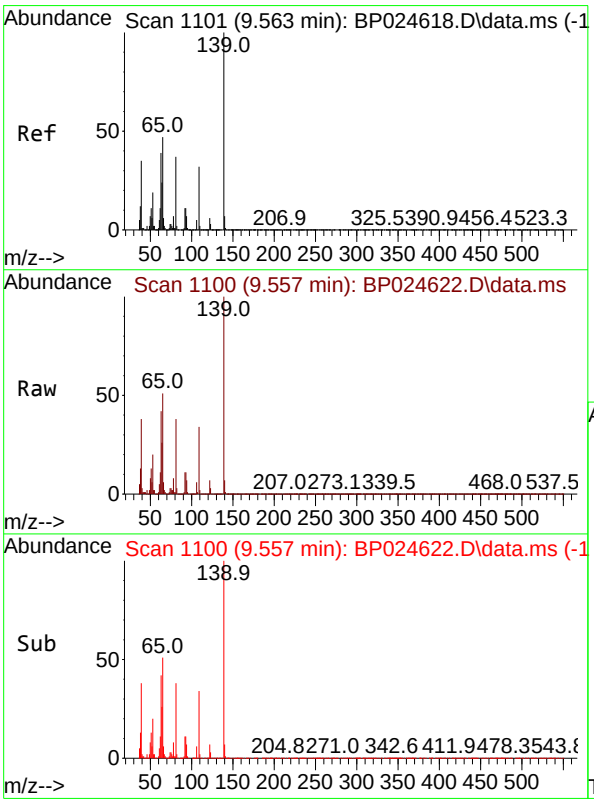
#25
Isophorone
Concen: 38.491 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion: 82 Resp: 821637

Ion	Ratio	Lower	Upper
82	100		
95	8.2	6.3	9.5
138	18.9	15.3	22.9

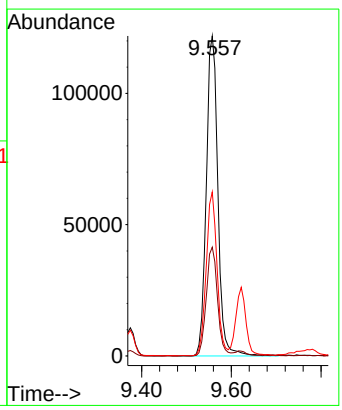


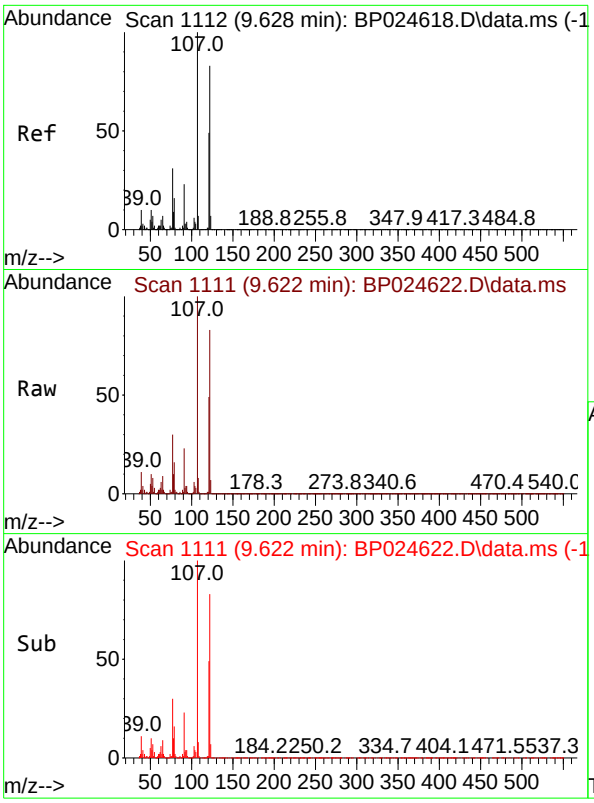


#26
2-Nitrophenol
Concen: 41.121 ng
RT: 9.557 min Scan# 1100
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:139 Resp: 218211

Ion	Ratio	Lower	Upper
139	100		
109	34.0	25.9	38.9
65	51.3	37.9	56.9



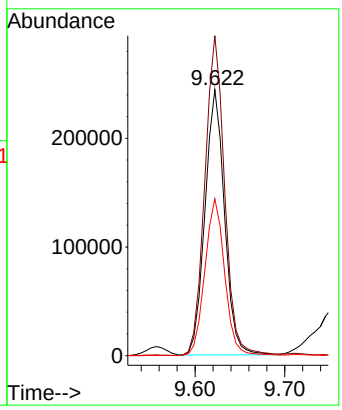


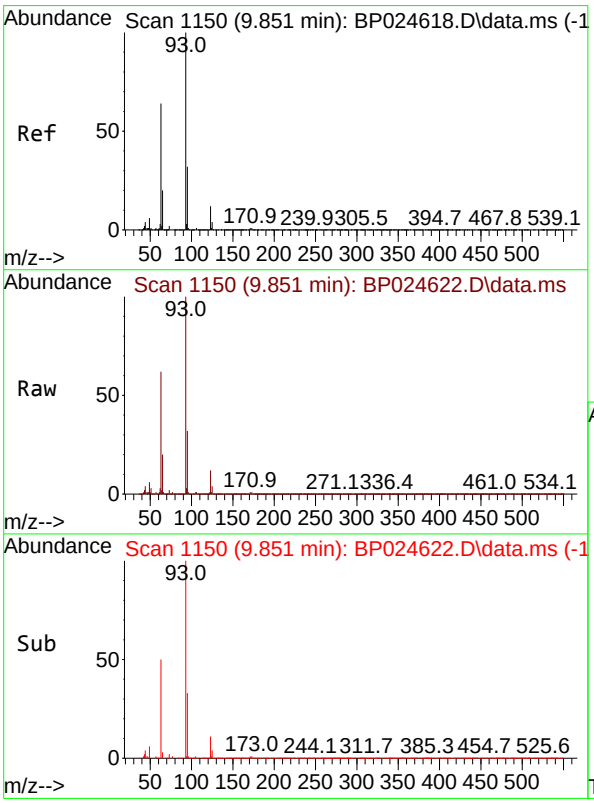
#27
2,4-Dimethylphenol
Concen: 39.484 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:122 Resp: 369418

Ion	Ratio	Lower	Upper
122	100		
107	120.3	96.2	144.2
121	58.9	47.6	71.4

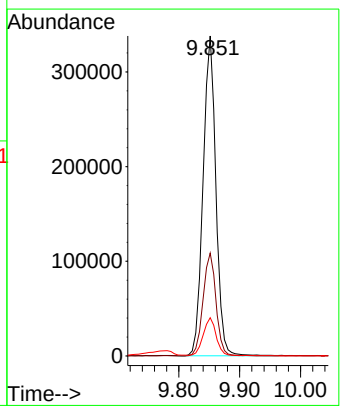


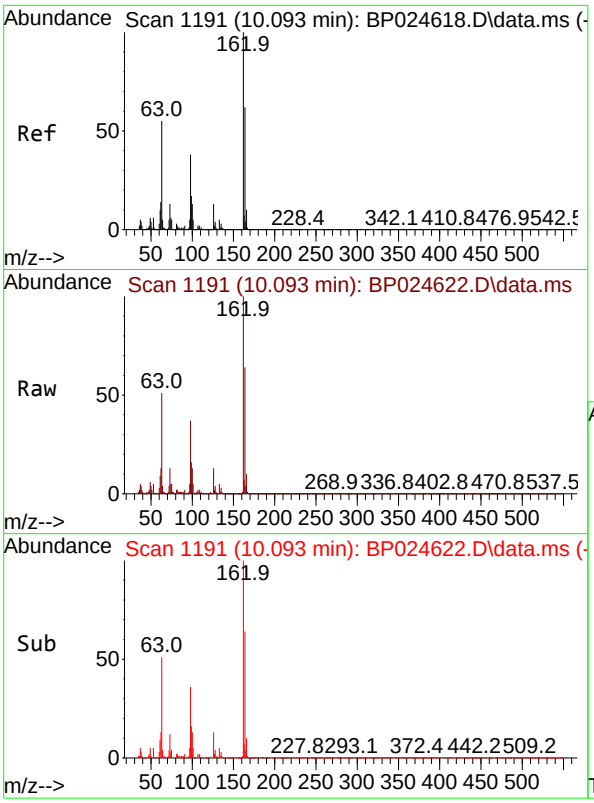


#28
bis(2-Chloroethoxy)methane
Concen: 38.714 ng
RT: 9.851 min Scan# 1150
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 93 Resp: 493722

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.5	38.3
123	12.0	9.7	14.5



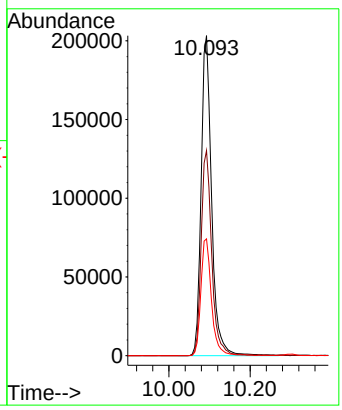


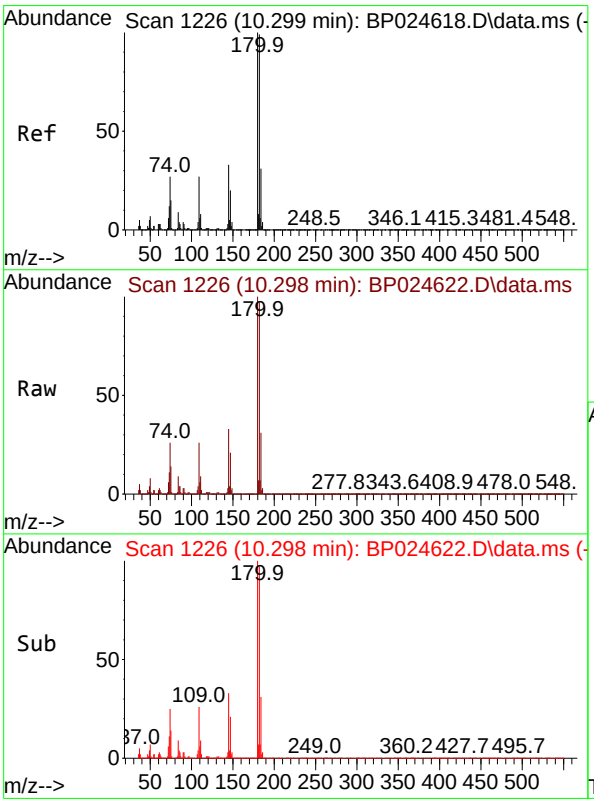
#29
2,4-Dichlorophenol
Concen: 40.189 ng
RT: 10.093 min Scan# 11
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:162 Resp: 364373

Ion	Ratio	Lower	Upper
162	100		
164	64.1	42.3	82.3
98	36.5	18.4	58.4

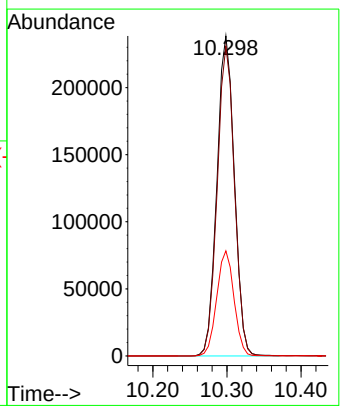


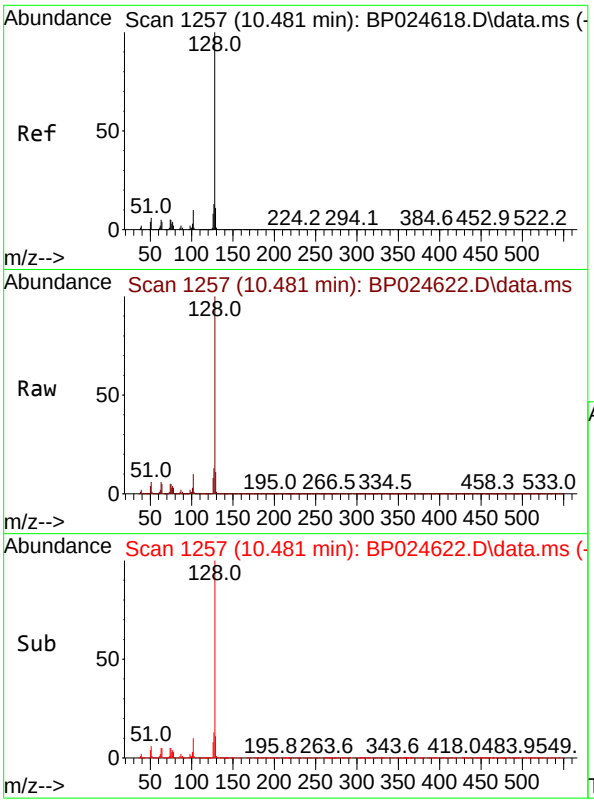


#30
1,2,4-Trichlorobenzene
Concen: 38.109 ng
RT: 10.298 min Scan# 1226
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:180 Resp: 389362

Ion	Ratio	Lower	Upper
180	100		
182	96.8	79.0	118.4
145	32.9	26.6	39.8



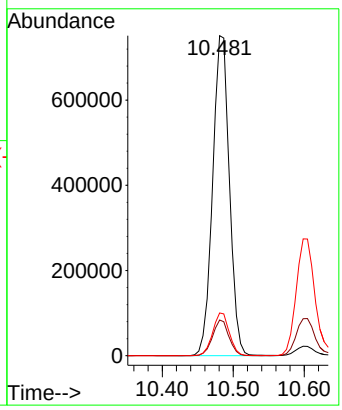


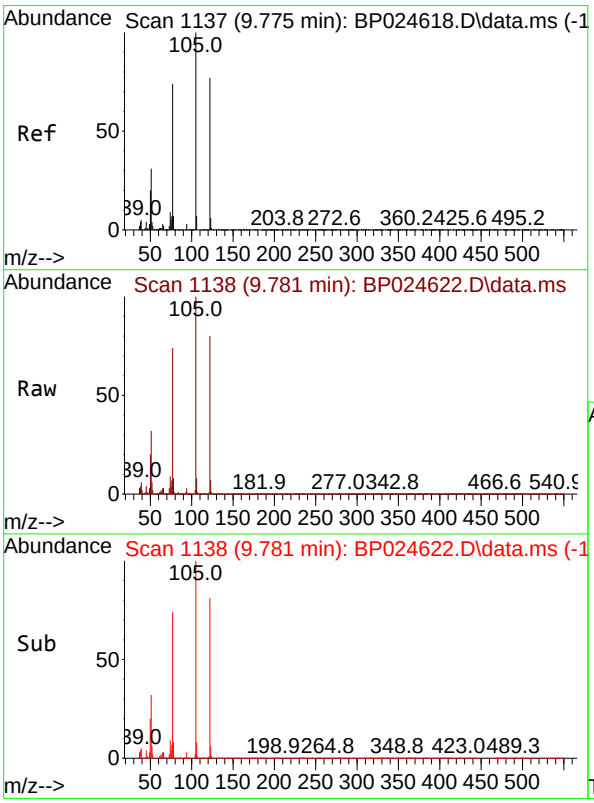
#31
Naphthalene
Concen: 38.069 ng
RT: 10.481 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:128 Resp: 1226624

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.4	10.7	16.1

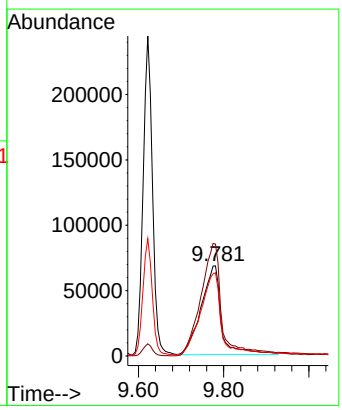


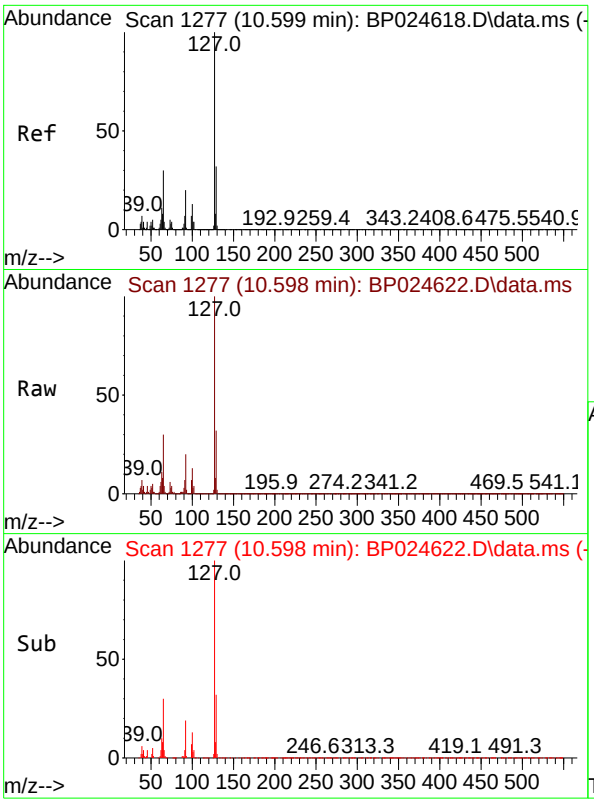


#32
Benzoic acid
Concen: 36.464 ng
RT: 9.781 min Scan# 1138
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:122 Resp: 223660

Ion	Ratio	Lower	Upper
122	100		
105	124.2	106.9	146.9
77	92.5	75.1	115.1



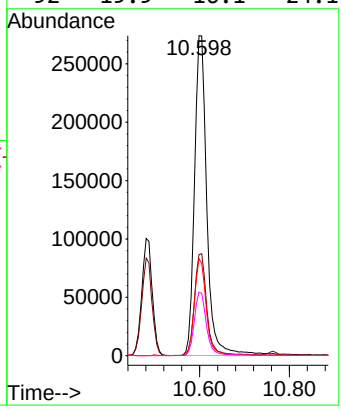


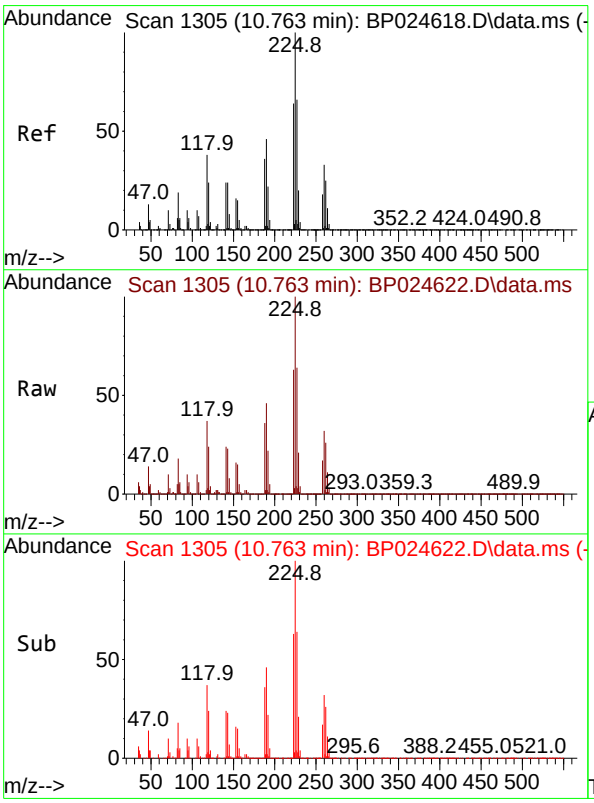
#33
4-Chloroaniline
Concen: 40.368 ng
RT: 10.598 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:127 Resp: 524873

Ion	Ratio	Lower	Upper
127	100		
129	31.6	25.8	38.6
65	30.3	23.9	35.9
92	19.9	16.1	24.1

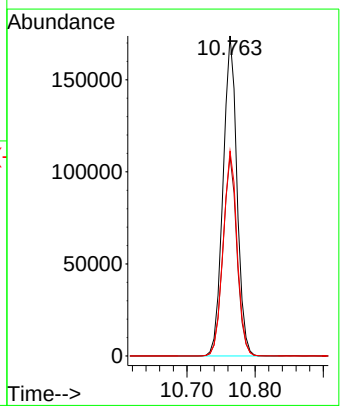


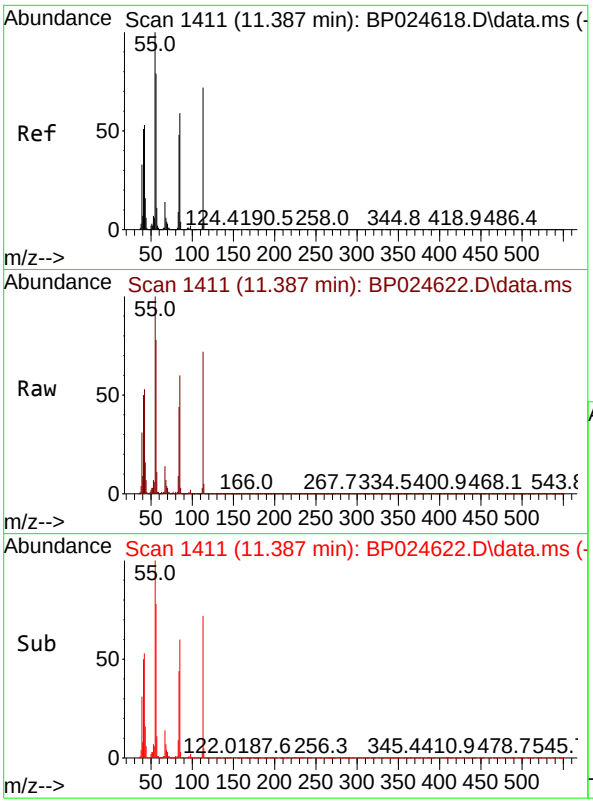


#34
Hexachlorobutadiene
Concen: 37.285 ng
RT: 10.763 min Scan# 1305
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:225 Resp: 246776

Ion	Ratio	Lower	Upper
225	100		
223	62.5	51.0	76.6
227	64.0	53.1	79.7



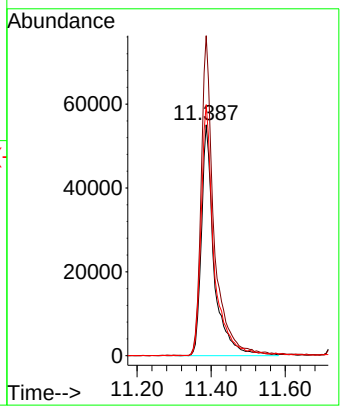


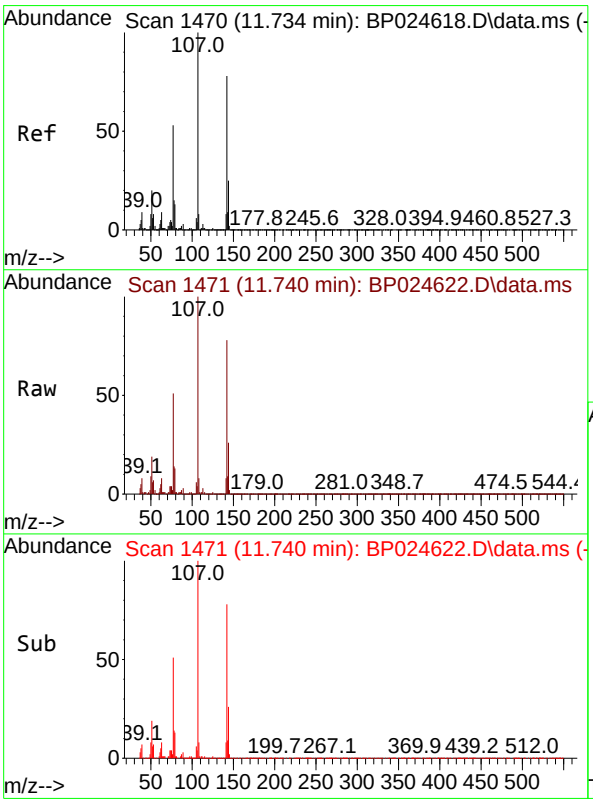
#35
Caprolactam
Concen: 39.752 ng
RT: 11.387 min Scan# 14
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:113 Resp: 130399

Ion	Ratio	Lower	Upper
113	100		
55	138.6	119.0	159.0
56	108.8	90.3	130.3

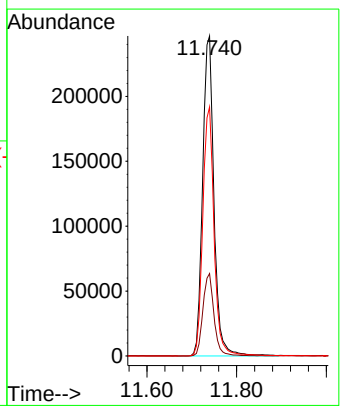


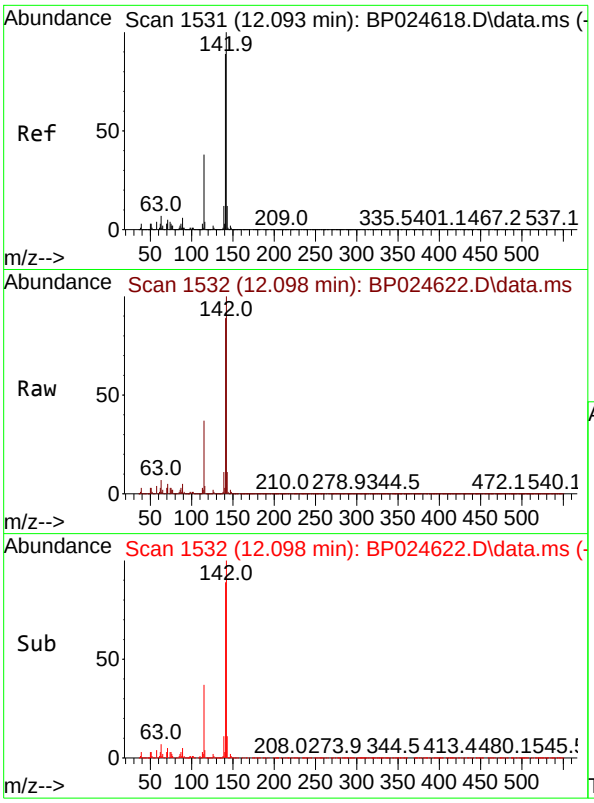


#36
4-Chloro-3-methylphenol
Concen: 39.013 ng
RT: 11.740 min Scan# 1471
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:107 Resp: 431344

Ion	Ratio	Lower	Upper
107	100		
144	25.7	20.1	30.1
142	77.8	62.1	93.1



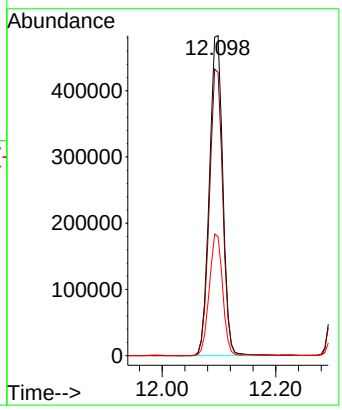


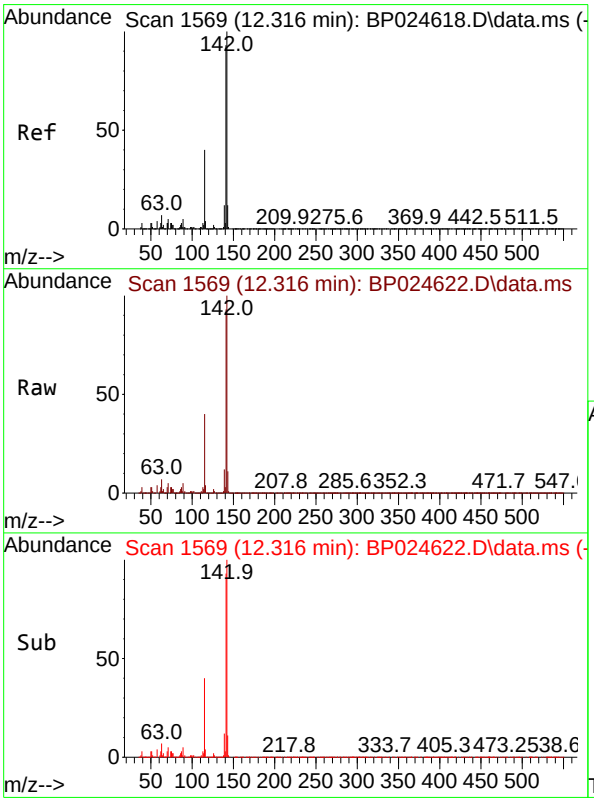
#37
2-Methylnaphthalene
Concen: 37.852 ng
RT: 12.098 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:142 Resp: 789724

Ion	Ratio	Lower	Upper
142	100		
141	88.5	71.2	106.8
115	37.2	30.6	46.0

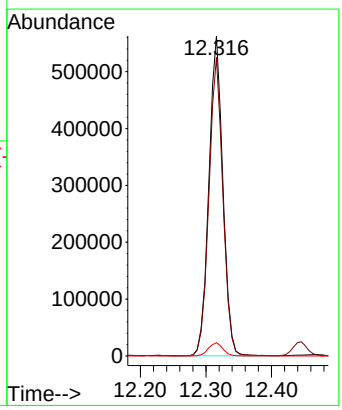


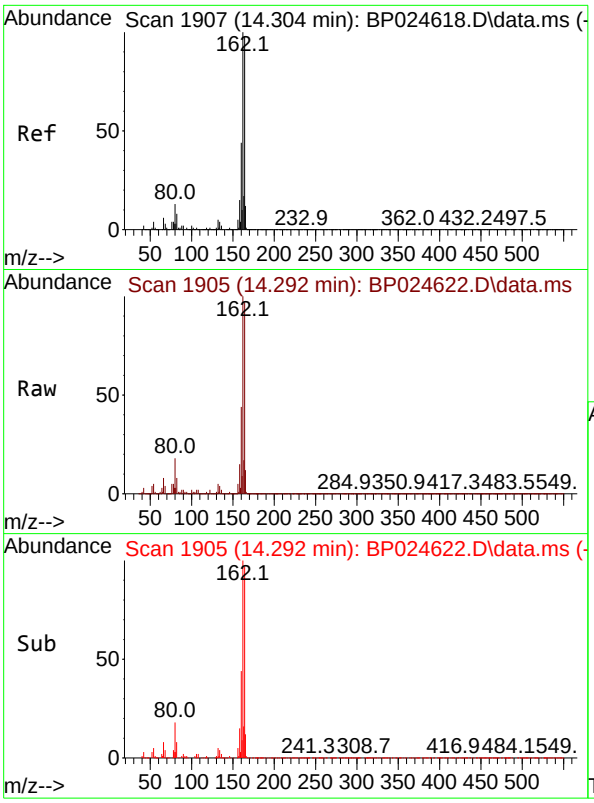


#38
1-Methylnaphthalene
Concen: 37.339 ng
RT: 12.316 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:142 Resp: 833521

Ion	Ratio	Lower	Upper
142	100		
141	93.2	74.7	112.1
116	4.2	3.4	5.2



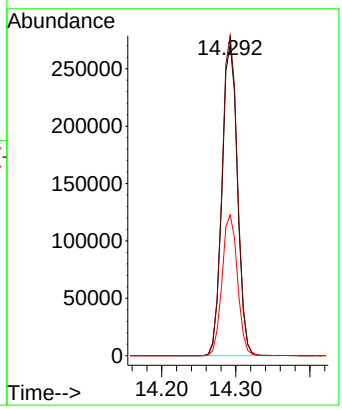


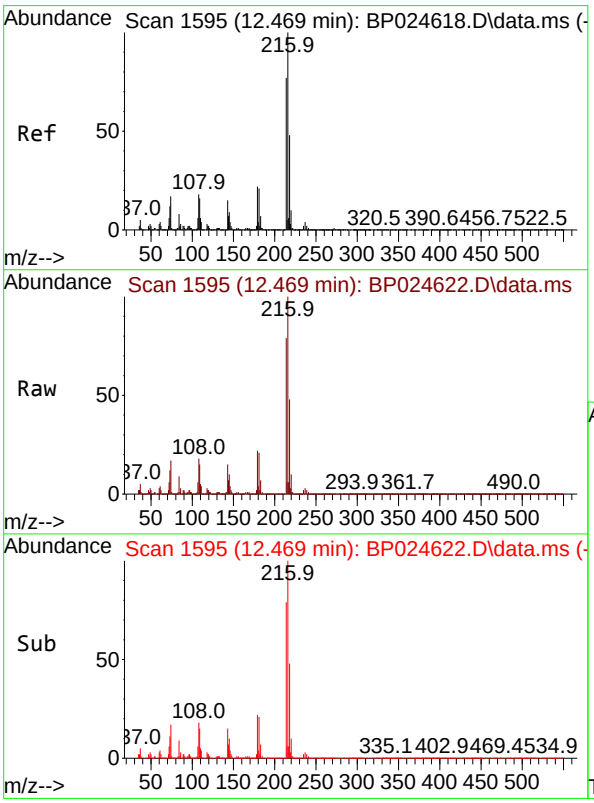
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.292 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:164 Resp: 391112

Ion	Ratio	Lower	Upper
164	100		
162	102.8	81.8	122.6
160	45.2	36.3	54.5

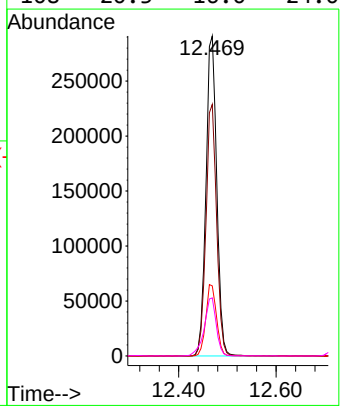


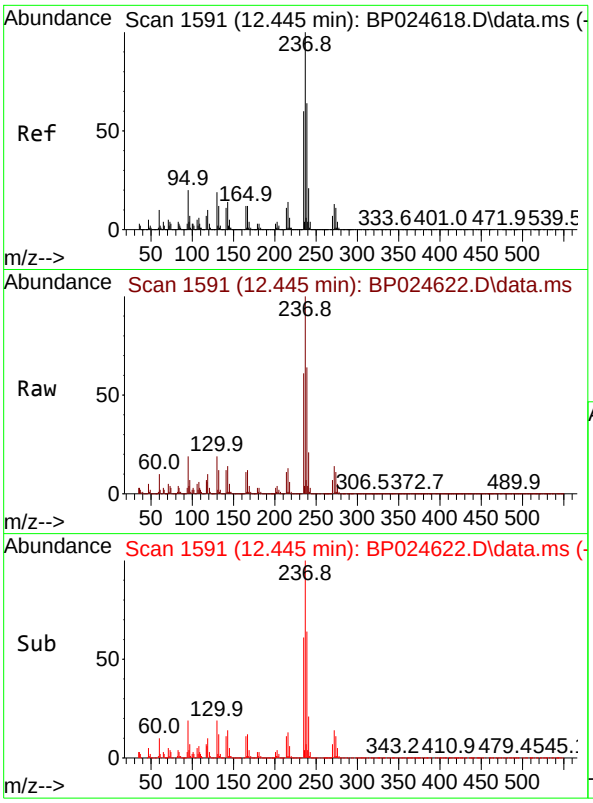


#40
1,2,4,5-Tetrachlorobenzene
Concen: 39.130 ng
RT: 12.469 min Scan# 1595
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:216 Resp: 444420

Ion	Ratio	Lower	Upper
216	100		
214	78.0	62.3	93.5
179	22.2	17.7	26.5
108	20.3	16.0	24.0



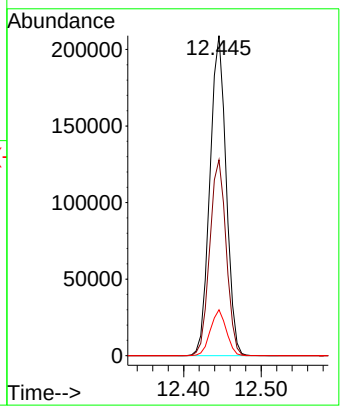


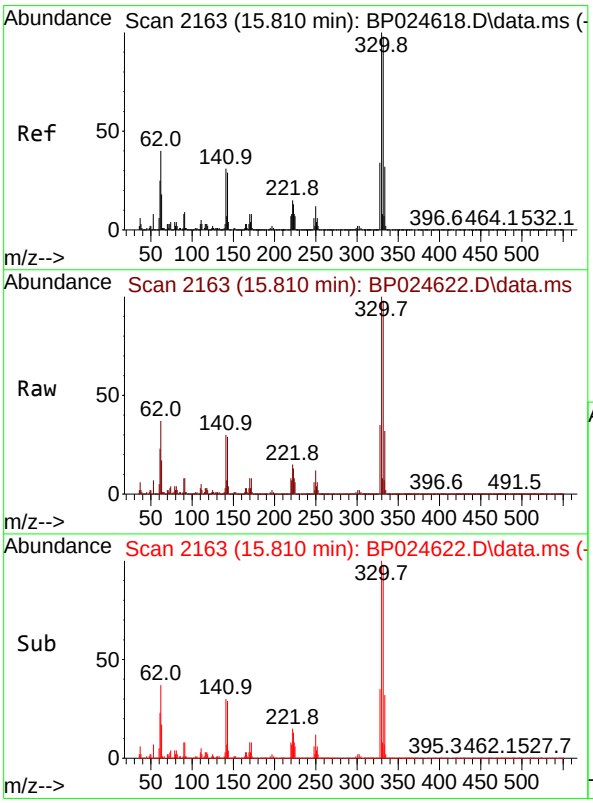
#41
Hexachlorocyclopentadiene
Concen: 44.371 ng
RT: 12.445 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:237 Resp: 305575

Ion	Ratio	Lower	Upper
237	100		
235	61.2	39.9	79.9
272	14.3	0.0	33.2

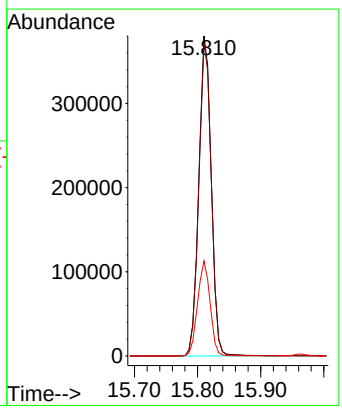


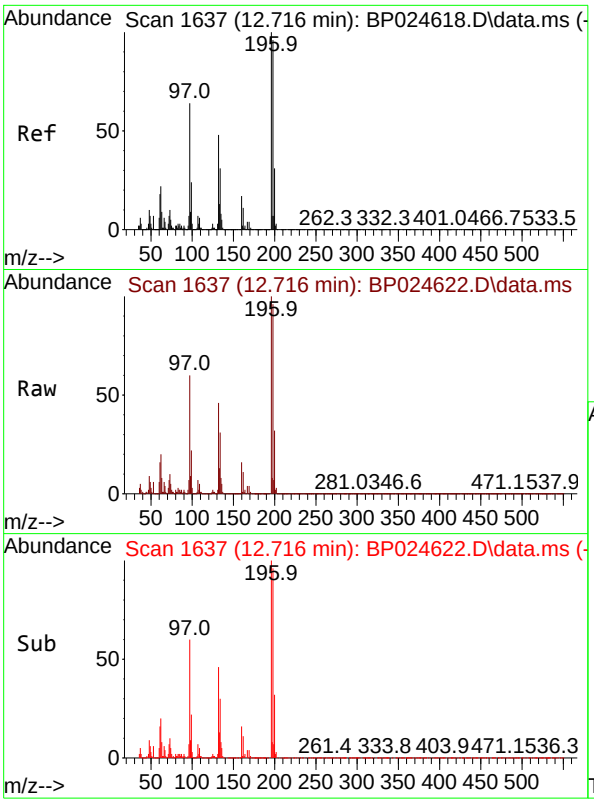


#42
2,4,6-Tribromophenol
Concen: 78.525 ng
RT: 15.810 min Scan# 2163
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:330 Resp: 520660

Ion	Ratio	Lower	Upper
330	100		
332	98.2	78.2	117.4
141	29.8	24.3	36.5



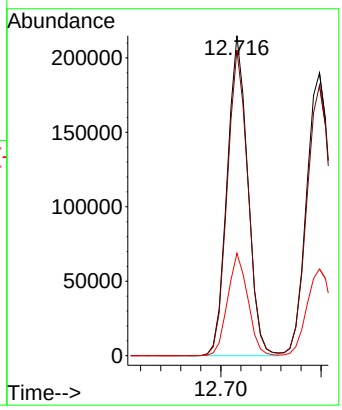


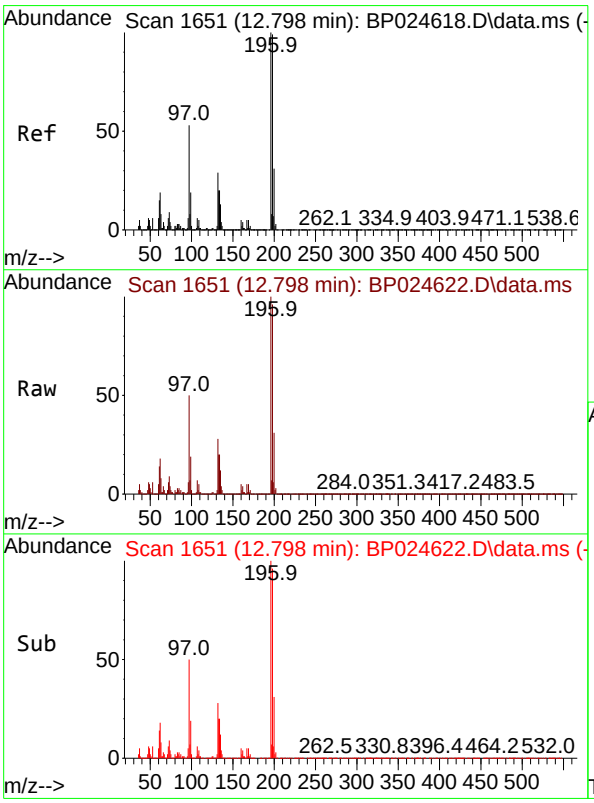
#43
2,4,6-Trichlorophenol
Concen: 41.549 ng
RT: 12.716 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:196 Resp: 305651

Ion	Ratio	Lower	Upper
196	100		
198	95.5	76.9	115.3
200	32.0	25.2	37.8

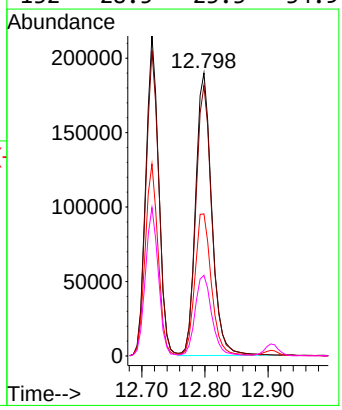


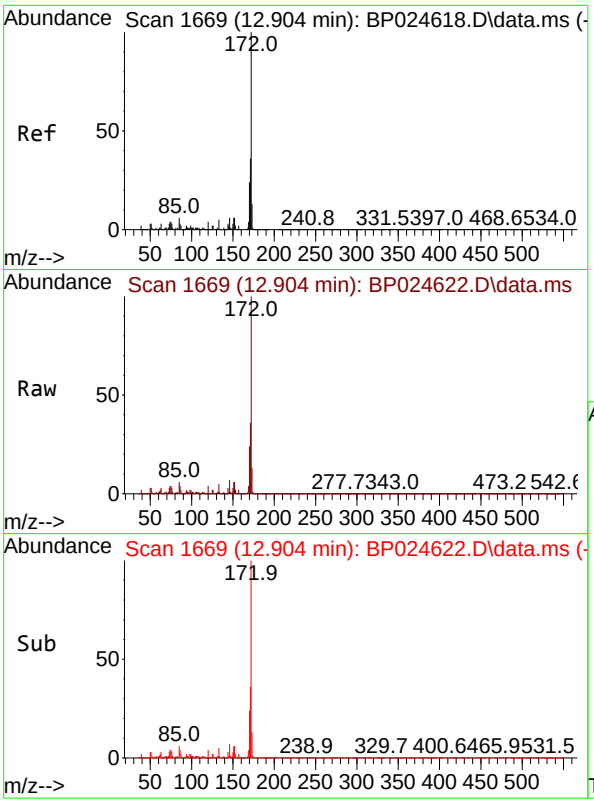


#44
2,4,5-Trichlorophenol
Concen: 41.064 ng
RT: 12.798 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:196 Resp: 336252

Ion	Ratio	Lower	Upper
196	100		
198	95.6	79.2	118.8
97	50.2	42.3	63.5
132	28.5	23.3	34.9



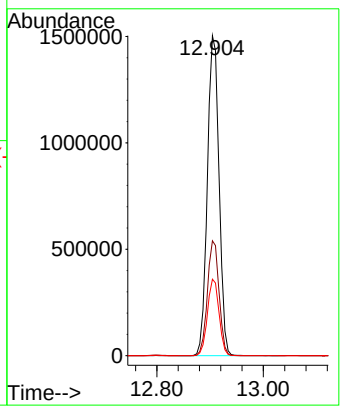


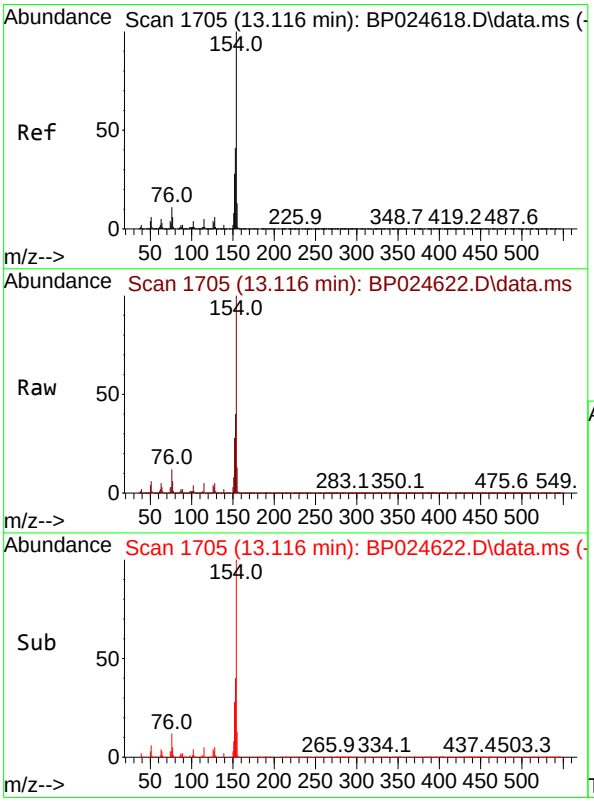
#45
2-Fluorobiphenyl
Concen: 76.733 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:172 Resp: 2290715

Ion	Ratio	Lower	Upper
172	100		
171	35.9	28.8	43.2
170	23.9	18.8	28.2

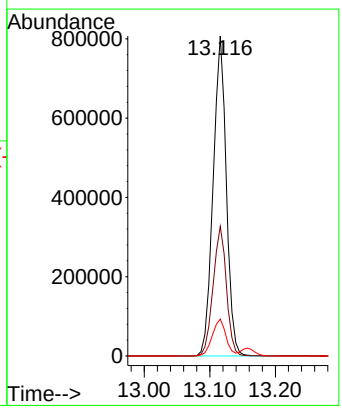


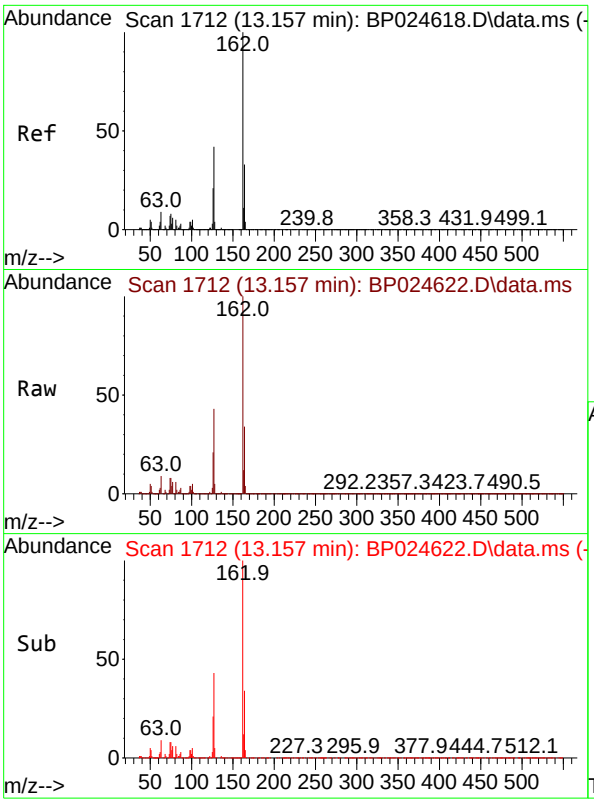


#46
1,1'-Biphenyl
Concen: 38.906 ng
RT: 13.116 min Scan# 1705
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:154 Resp: 1124669

Ion	Ratio	Lower	Upper
154	100		
153	40.5	21.0	61.0
76	11.5	0.0	31.5



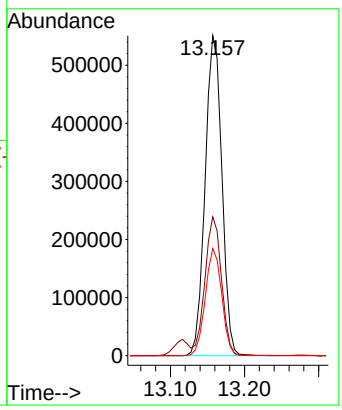


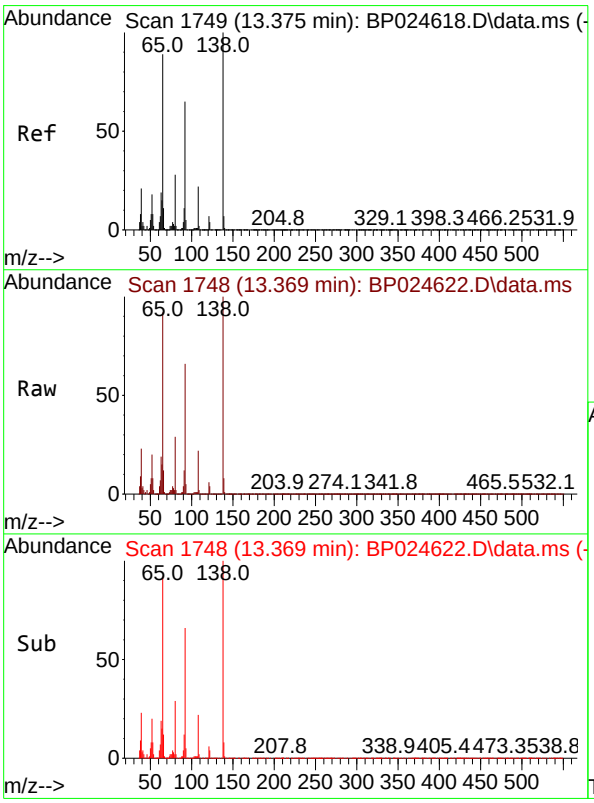
#47
2-Chloronaphthalene
Concen: 39.238 ng
RT: 13.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:162 Resp: 864853

Ion	Ratio	Lower	Upper
162	100		
127	43.4	33.8	50.6
164	33.5	26.0	39.0

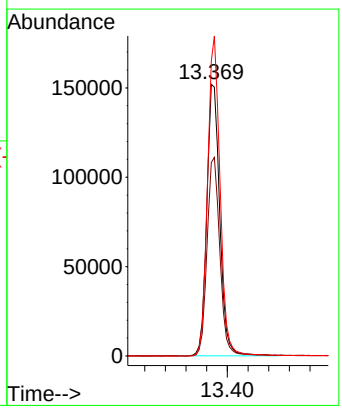


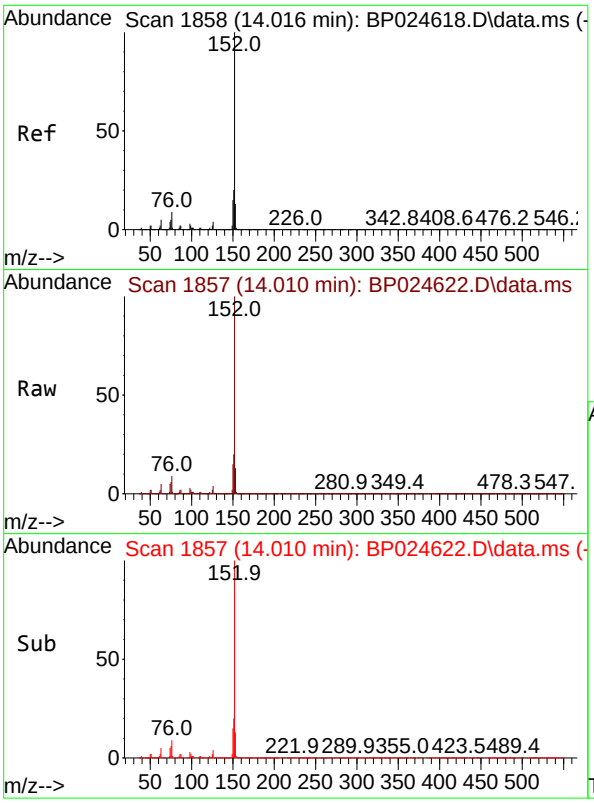


#48
2-Nitroaniline
Concen: 40.604 ng
RT: 13.369 min Scan# 1748
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion: 65 Resp: 264965

Ion	Ratio	Lower	Upper
65	100		
92	71.2	58.7	88.1
138	108.5	90.2	135.2



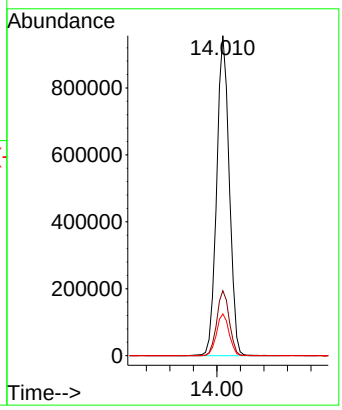


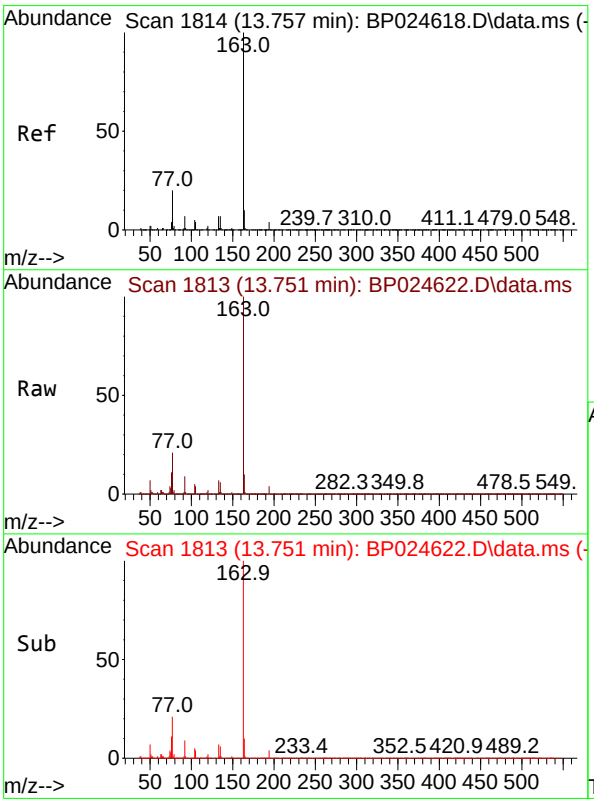
#49
Acenaphthylene
Concen: 38.493 ng
RT: 14.010 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:152 Resp: 1419821

Ion	Ratio	Lower	Upper
152	100		
151	20.3	16.2	24.4
153	13.0	10.2	15.4

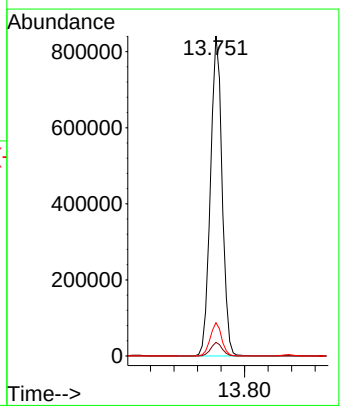


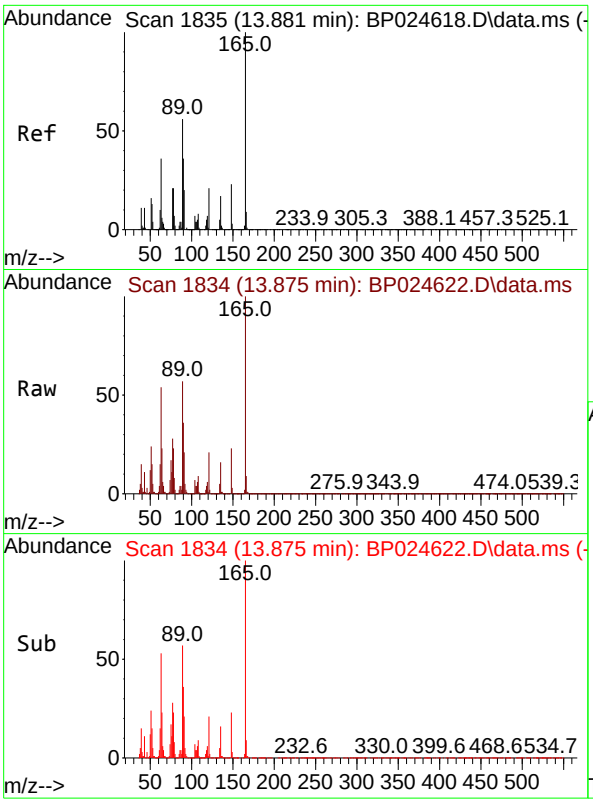


#50
Dimethylphthalate
Concen: 38.751 ng
RT: 13.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:163 Resp: 1155211

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.0
164	10.4	8.1	12.1



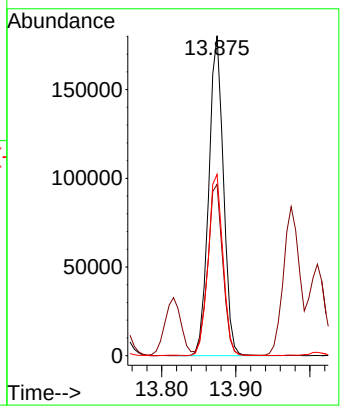


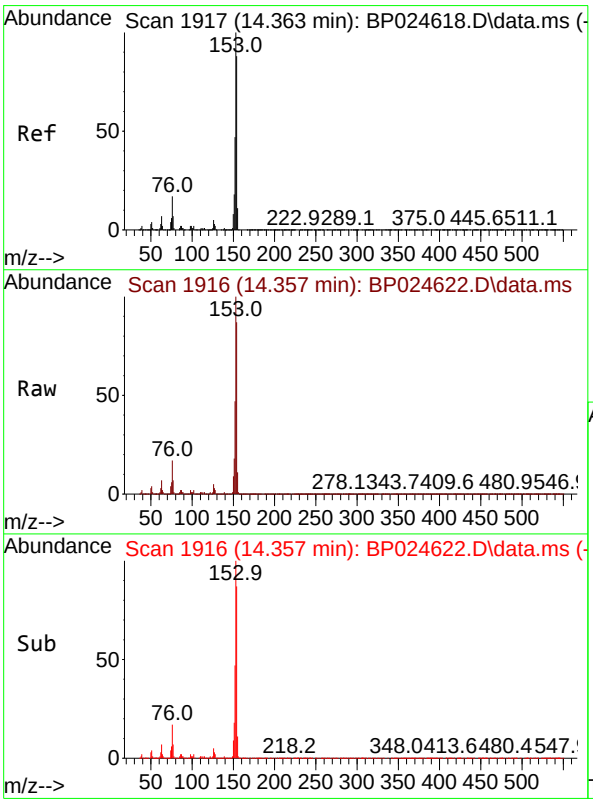
#51
2,6-Dinitrotoluene
Concen: 39.317 ng
RT: 13.875 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:165 Resp: 247537

Ion	Ratio	Lower	Upper
165	100		
63	53.5	42.4	63.6
89	56.6	44.8	67.2

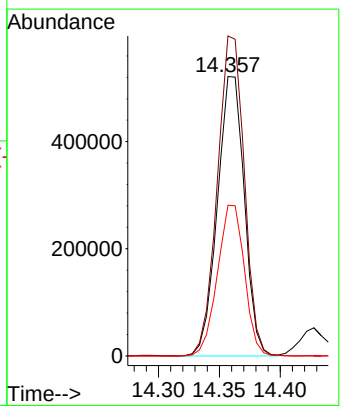


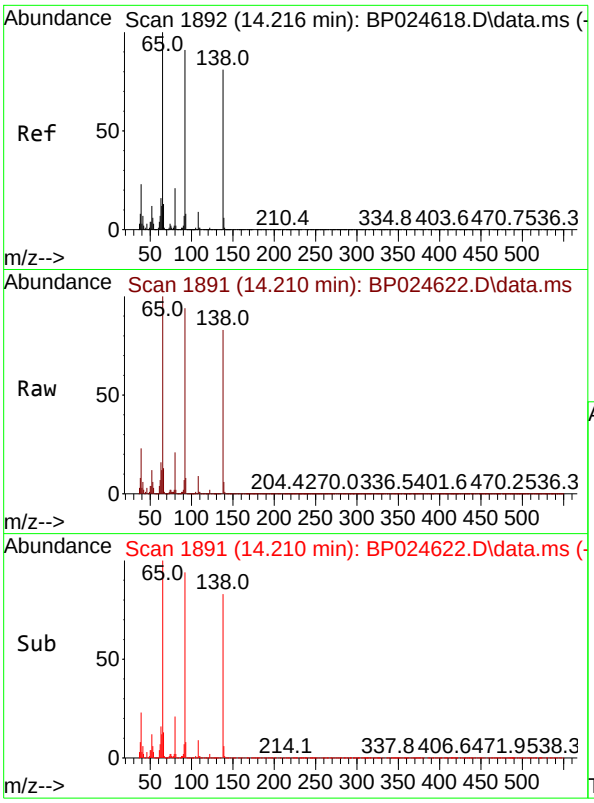


#52
Acenaphthene
Concen: 37.904 ng
RT: 14.357 min Scan# 1916
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:154 Resp: 803755

Ion	Ratio	Lower	Upper
154	100		
153	114.5	91.0	136.4
152	54.0	42.9	64.3



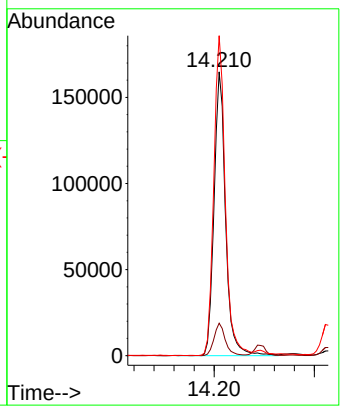


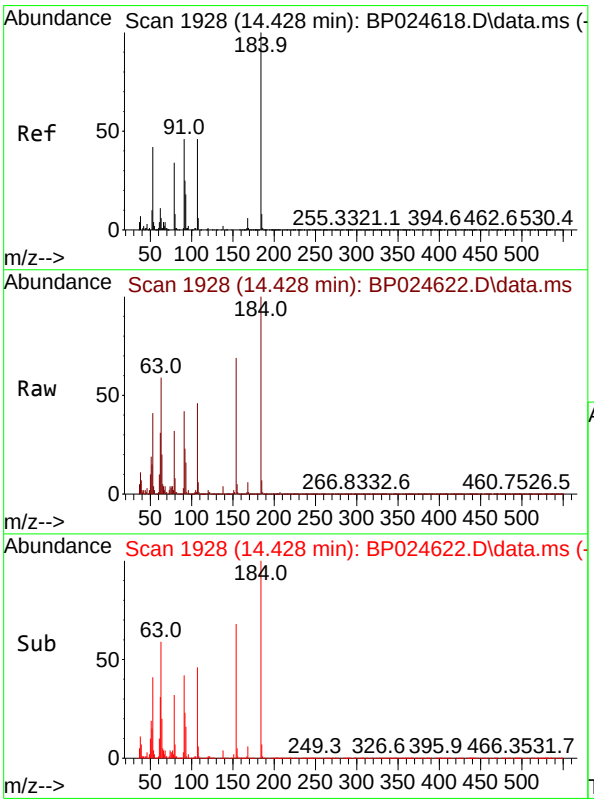
#53
3-Nitroaniline
Concen: 40.871 ng
RT: 14.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:138 Resp: 262737

Ion	Ratio	Lower	Upper
138	100		
108	11.4	9.0	13.4
92	112.7	90.1	135.1

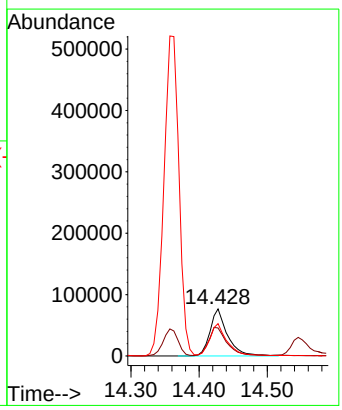


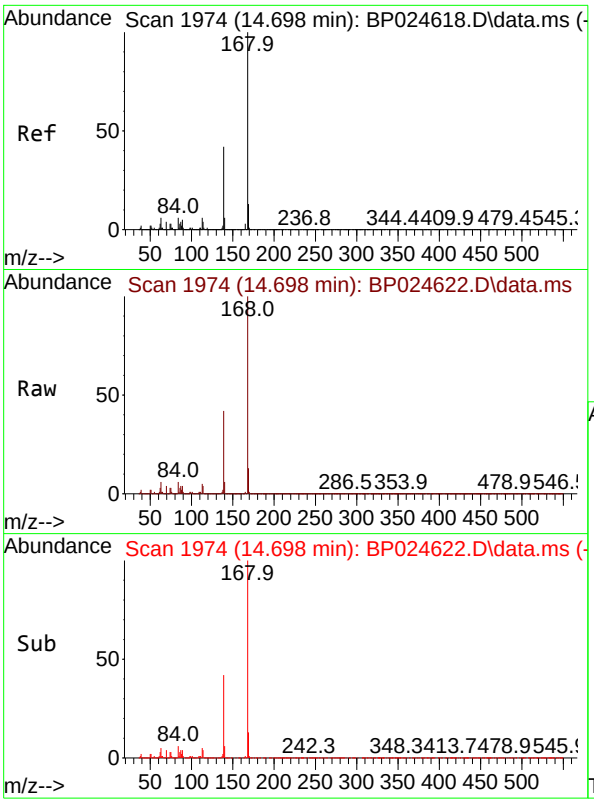


#54
2,4-Dinitrophenol
Concen: 37.829 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:184 Resp: 135624

Ion	Ratio	Lower	Upper
184	100		
63	59.3	51.3	76.9
154	68.5	53.5	80.3



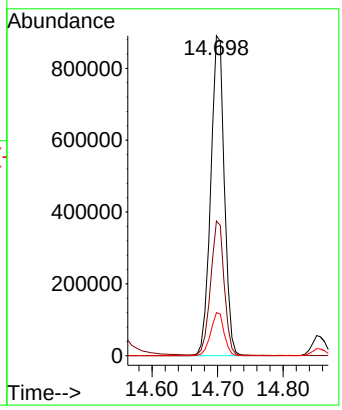


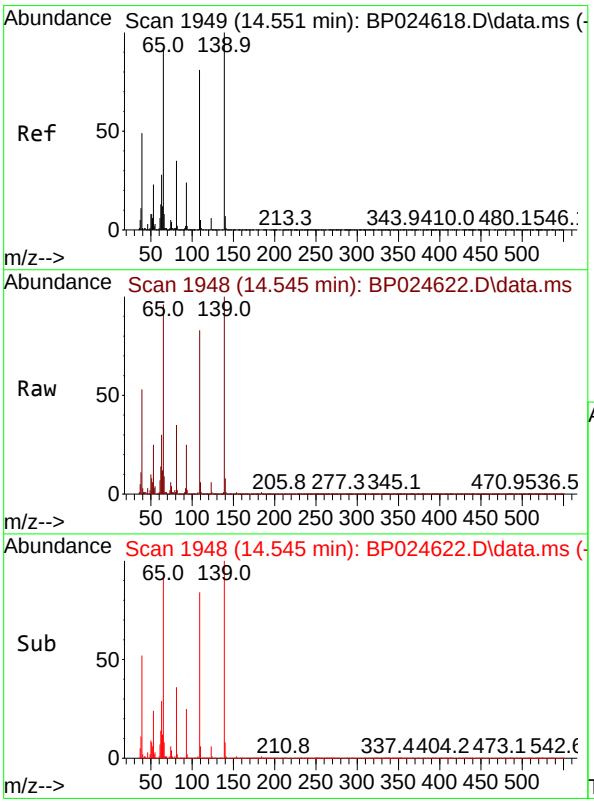
#55
Dibenzofuran
Concen: 37.910 ng
RT: 14.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:168 Resp: 1282228

Ion	Ratio	Lower	Upper
168	100		
139	42.1	34.2	51.4
169	13.5	10.8	16.2

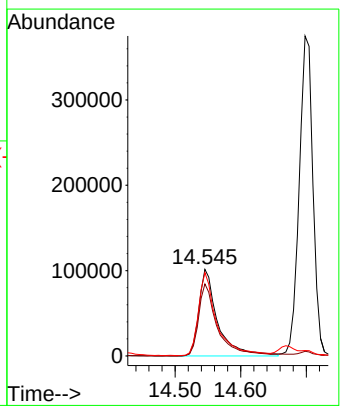


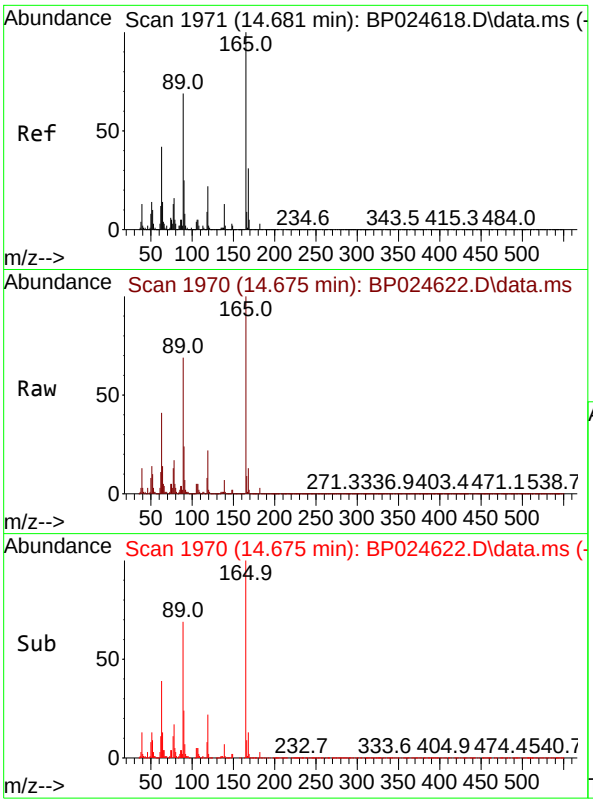


#56
4-Nitrophenol
Concen: 38.698 ng
RT: 14.545 min Scan# 1948
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:139 Resp: 202528

Ion	Ratio	Lower	Upper
139	100		
109	83.2	61.4	101.4
65	96.3	72.2	112.2



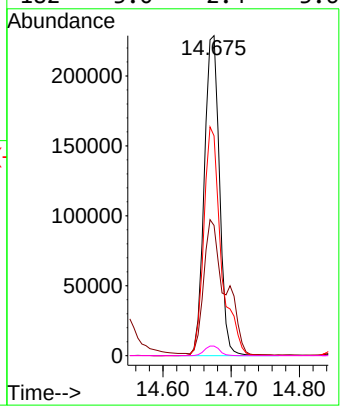


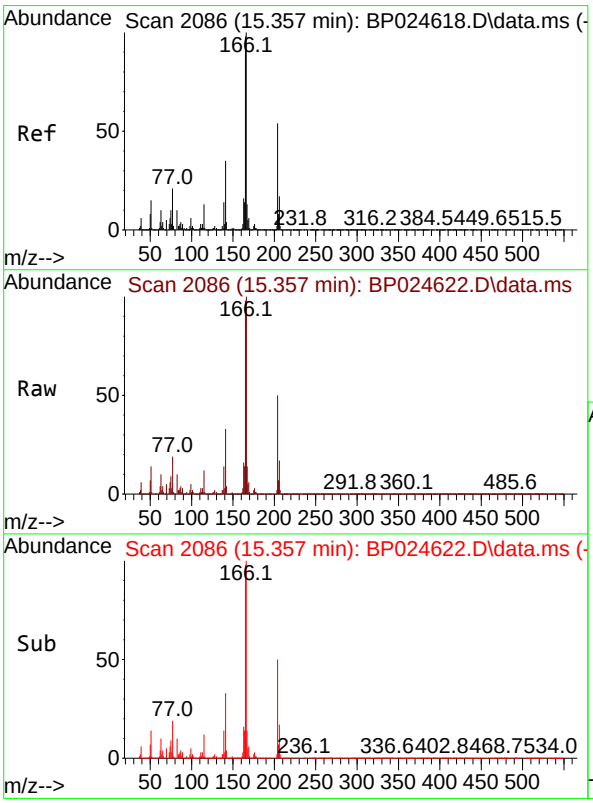
#57
2,4-Dinitrotoluene
Concen: 39.975 ng
RT: 14.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:165 Resp: 354817

Ion	Ratio	Lower	Upper
165	100		
63	40.7	33.8	50.6
89	68.7	55.6	83.4
182	3.0	2.4	3.6

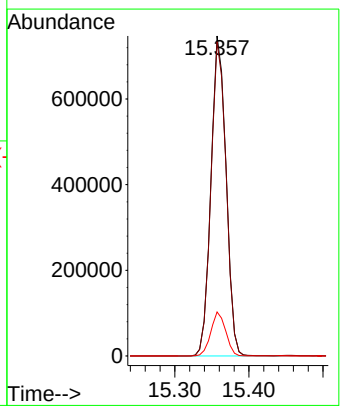


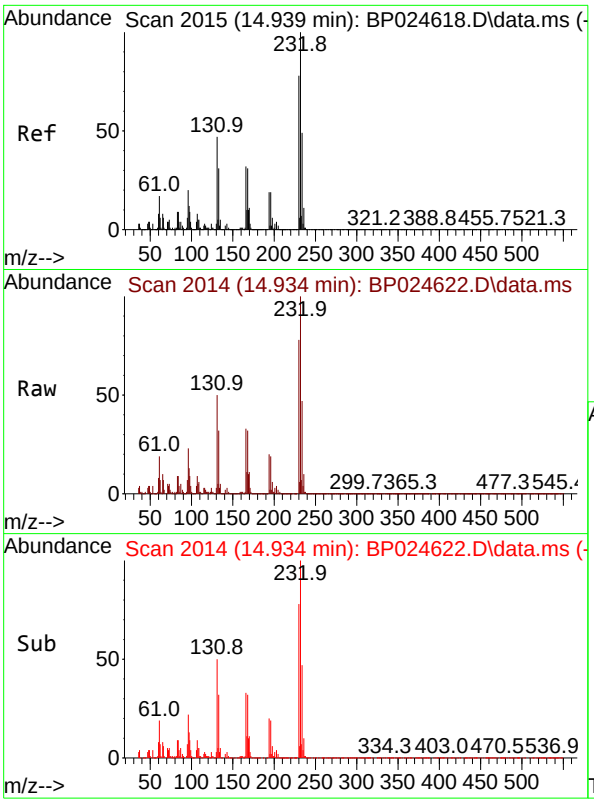


#58
Fluorene
Concen: 38.422 ng
RT: 15.357 min Scan# 2086
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:166 Resp: 1059642

Ion	Ratio	Lower	Upper
166	100		
165	98.2	78.5	117.7
167	13.8	10.7	16.1



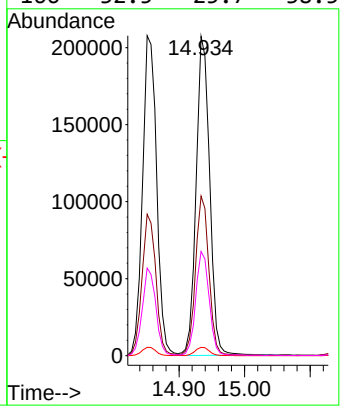


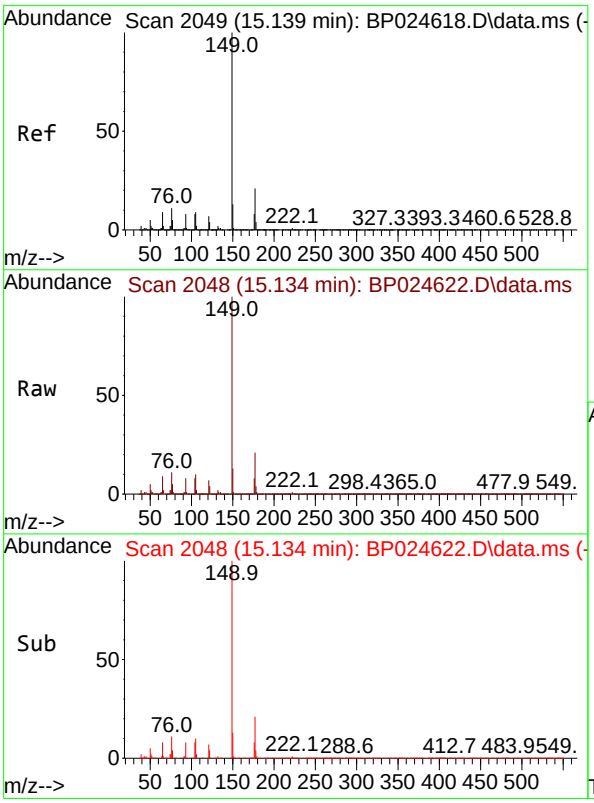
#59
2,3,4,6-Tetrachlorophenol
Concen: 39.274 ng
RT: 14.934 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:232 Resp: 298327

Ion	Ratio	Lower	Upper
232	100		
131	48.9	39.5	59.3
130	2.8	2.2	3.4
166	32.5	25.7	38.5

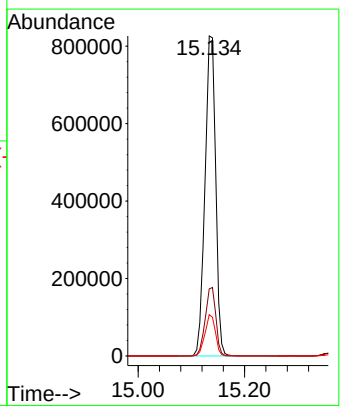


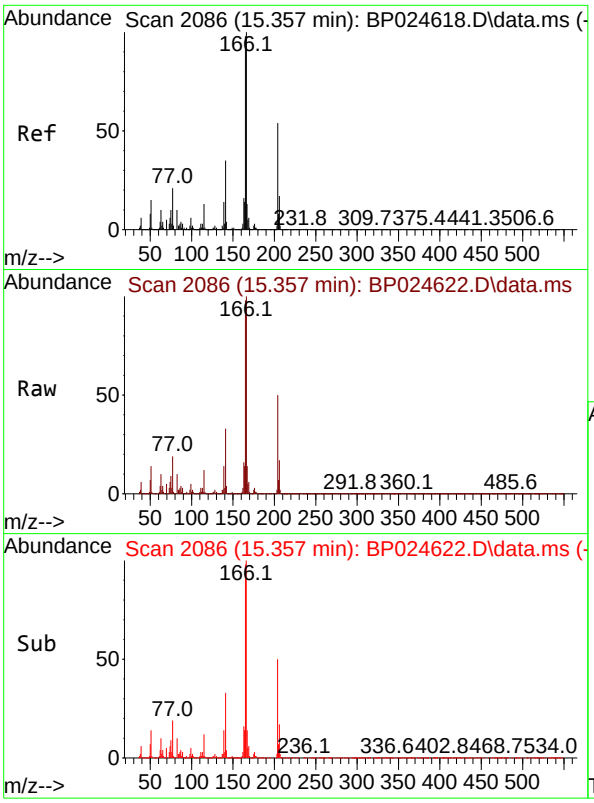


#60
Diethylphthalate
Concen: 38.171 ng
RT: 15.134 min Scan# 2048
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:149 Resp: 1150091

Ion	Ratio	Lower	Upper
149	100		
177	21.0	16.7	25.1
150	12.9	10.2	15.2



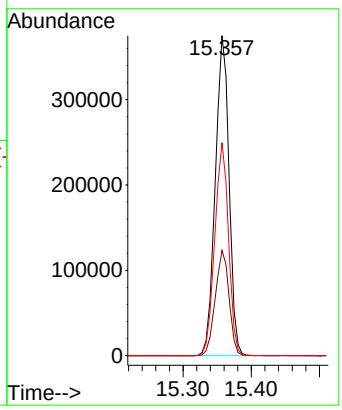


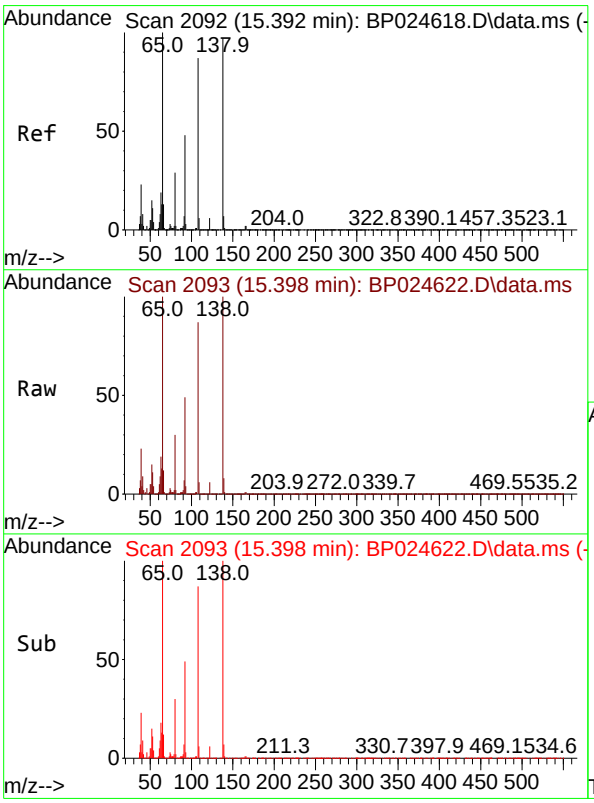
#61
4-Chlorophenyl-phenylether
Concen: 38.249 ng
RT: 15.357 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:204 Resp: 526066

Ion	Ratio	Lower	Upper
204	100		
206	32.9	26.0	39.0
141	66.6	52.9	79.3

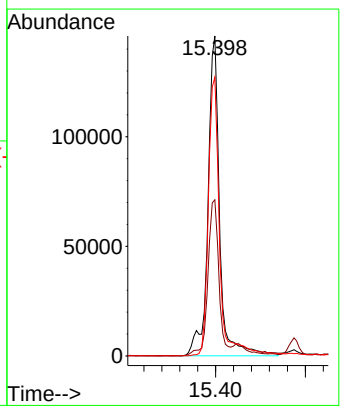


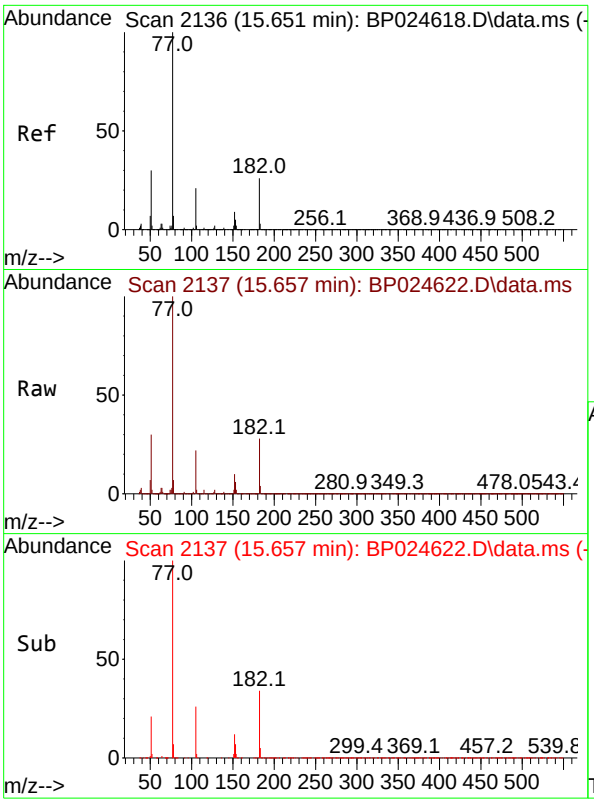


#62
4-Nitroaniline
Concen: 42.722 ng
RT: 15.398 min Scan# 2093
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:138 Resp: 265185

Ion	Ratio	Lower	Upper
138	100		
92	48.8	29.2	69.2
108	87.1	69.0	109.0



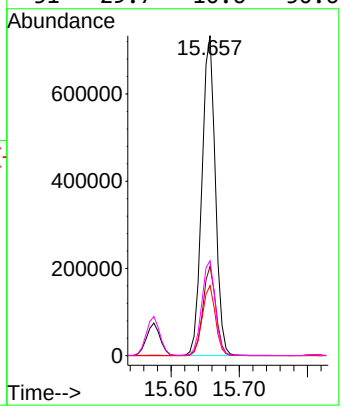


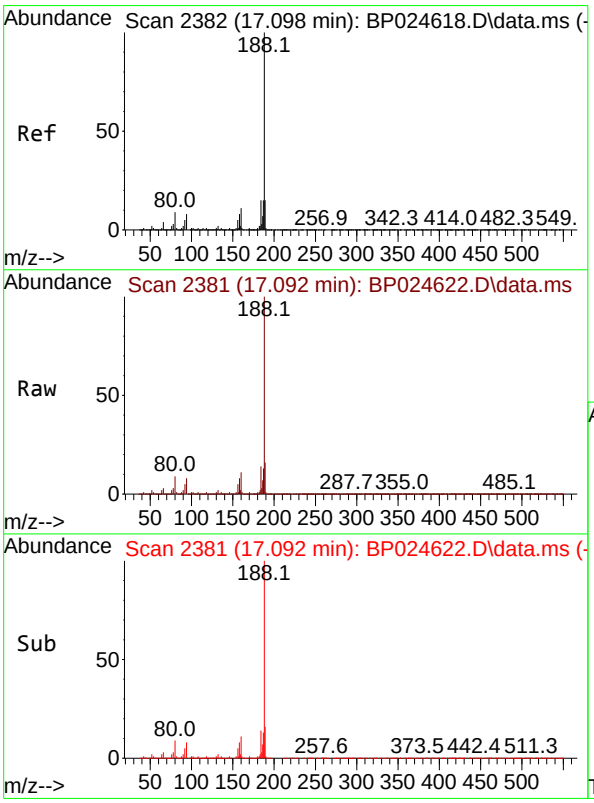
#63
Azobenzene
Concen: 38.822 ng
RT: 15.657 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion: 77 Resp: 1000653

Ion	Ratio	Lower	Upper
77	100		
182	27.9	5.7	45.7
105	21.9	1.3	41.3
51	29.7	10.6	50.6

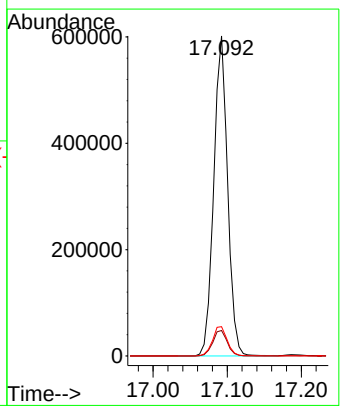


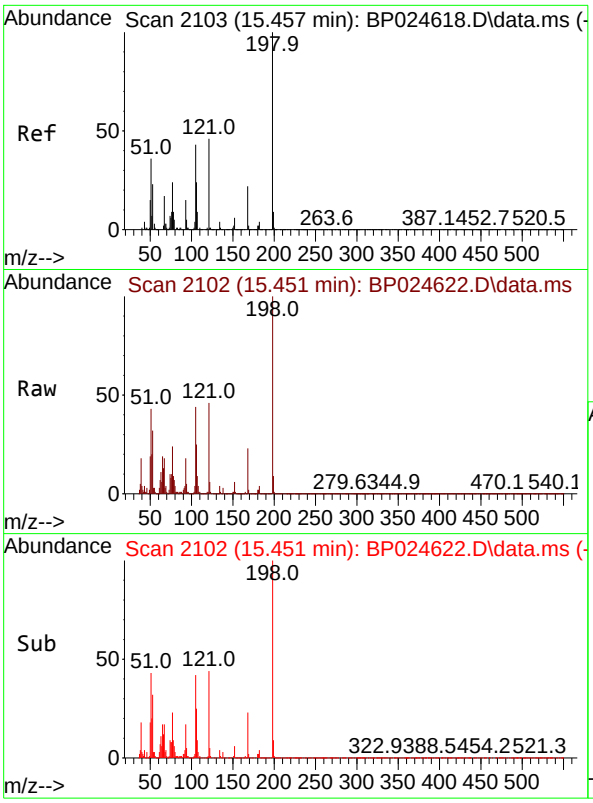


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.092 min Scan# 2381
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:188 Resp: 780511

Ion	Ratio	Lower	Upper
188	100		
94	8.0	6.5	9.7
80	9.2	7.3	10.9



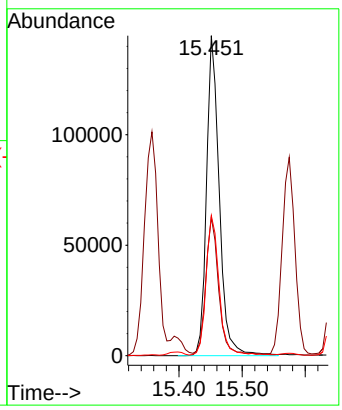


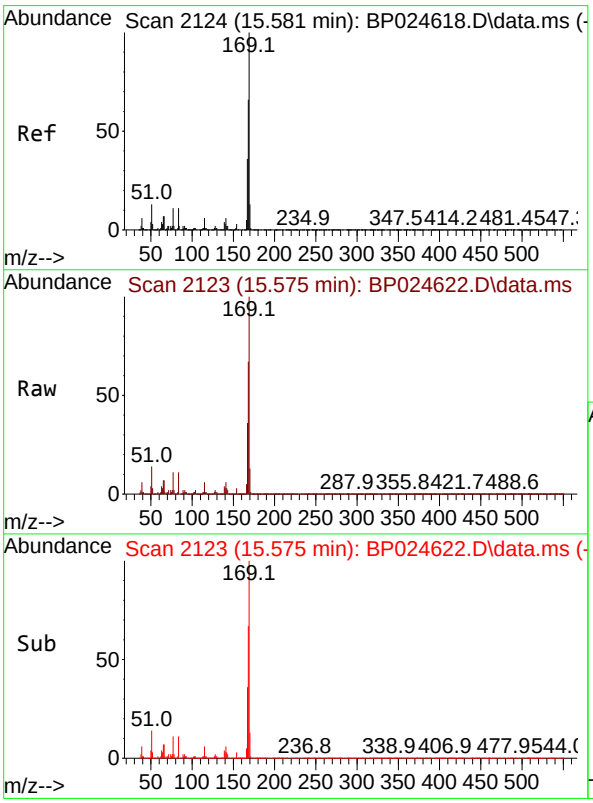
#65
4,6-Dinitro-2-methylphenol
Concen: 40.305 ng
RT: 15.451 min Scan# 21
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:198 Resp: 203200

Ion	Ratio	Lower	Upper
198	100		
51	43.2	21.1	61.1
105	43.8	23.6	63.6

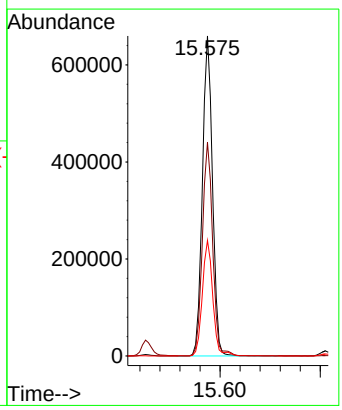


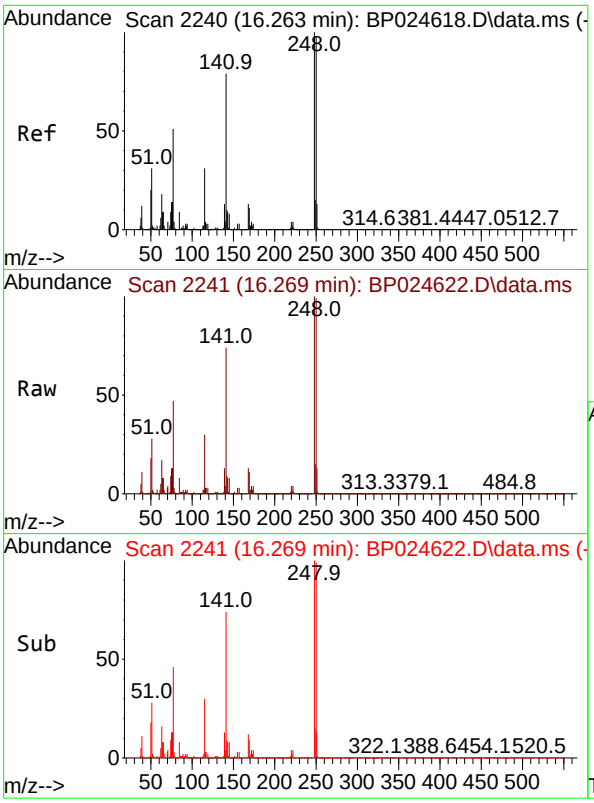


#66
n-Nitrosodiphenylamine
Concen: 38.382 ng
RT: 15.575 min Scan# 2123
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:169 Resp: 920187

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.2	79.8
167	36.1	28.6	43.0



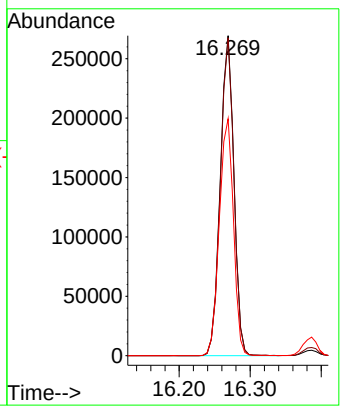


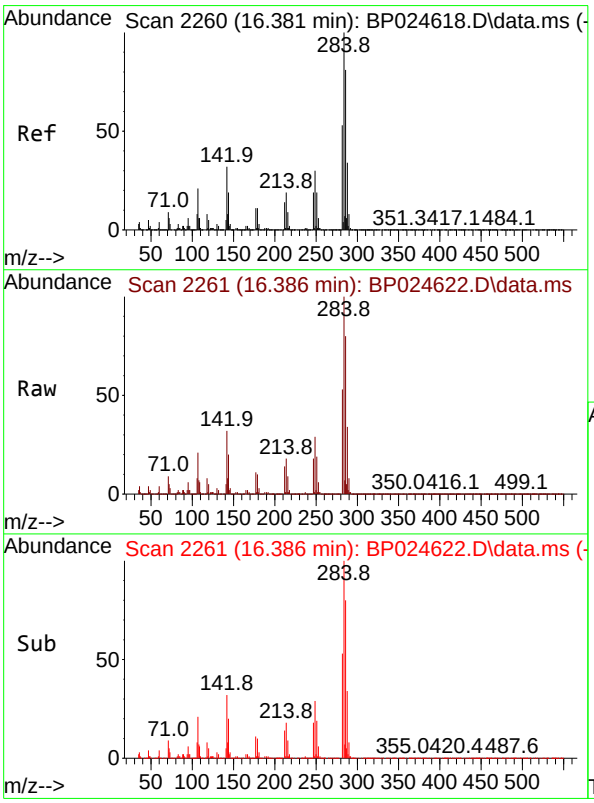
#67
4-Bromophenyl-phenylether
Concen: 38.909 ng
RT: 16.269 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:248 Resp: 357846

Ion	Ratio	Lower	Upper
248	100		
250	99.3	78.2	117.4
141	74.1	63.0	94.6

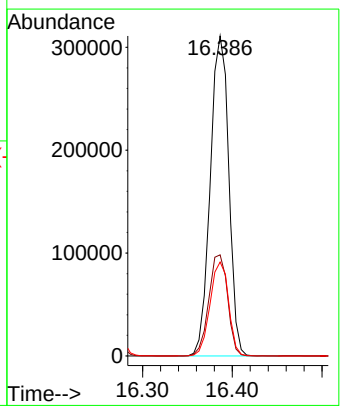


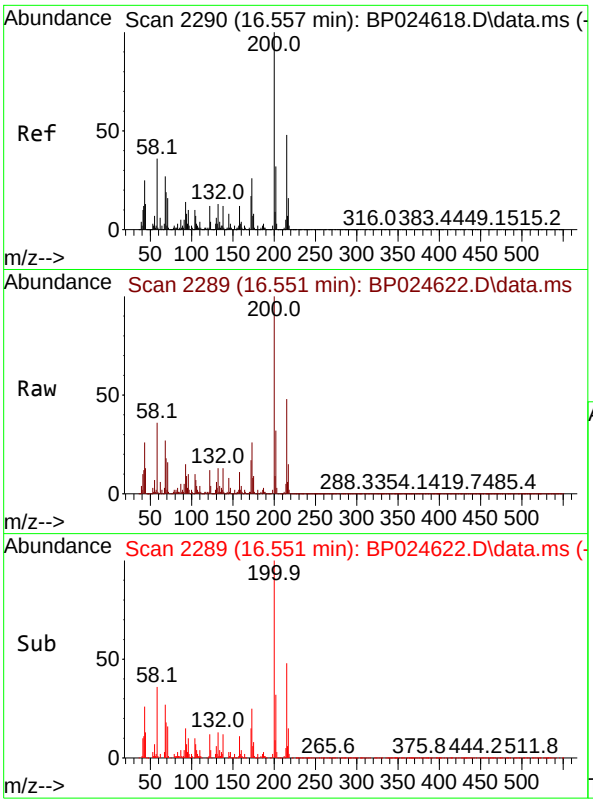


#68
Hexachlorobenzene
Concen: 38.175 ng
RT: 16.386 min Scan# 2261
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:284 Resp: 446142

Ion	Ratio	Lower	Upper
284	100		
142	31.6	25.9	38.9
249	29.3	24.1	36.1



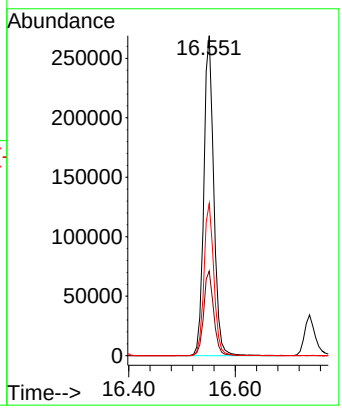


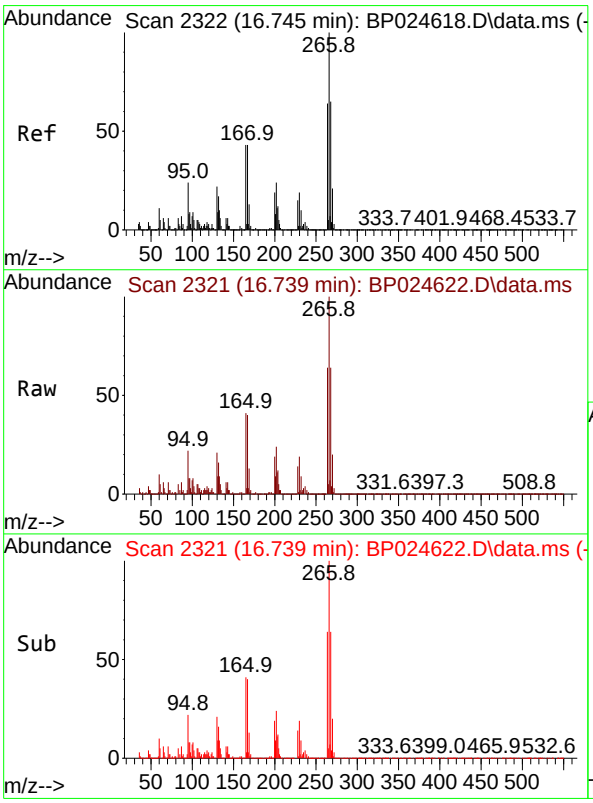
#69
Atrazine
Concen: 39.570 ng
RT: 16.551 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:200 Resp: 347661

Ion	Ratio	Lower	Upper
200	100		
173	26.4	5.9	45.9
215	47.6	28.3	68.3

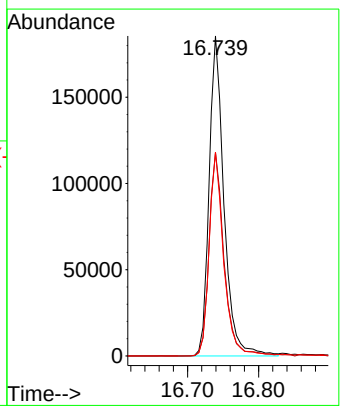


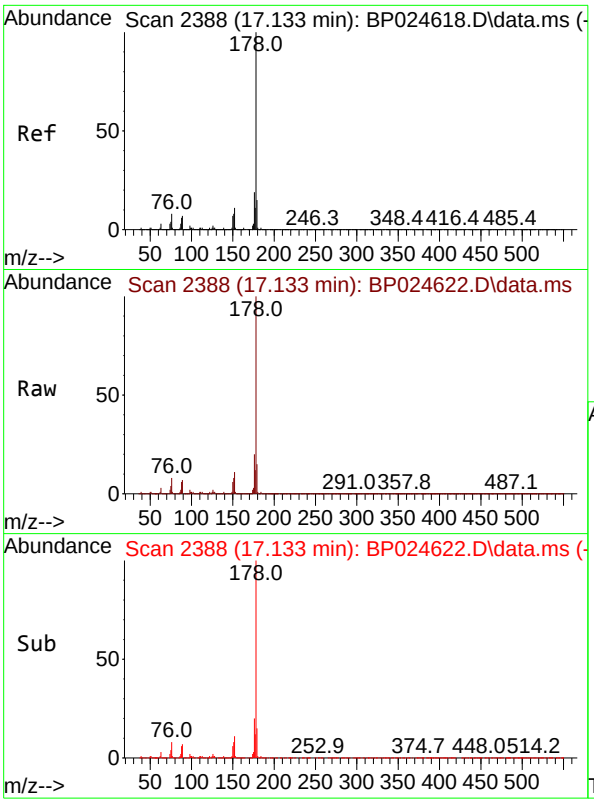


#70
Pentachlorophenol
Concen: 41.124 ng
RT: 16.739 min Scan# 2321
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:266 Resp: 269781

Ion	Ratio	Lower	Upper
266	100		
268	63.7	52.2	78.4
264	63.6	51.1	76.7



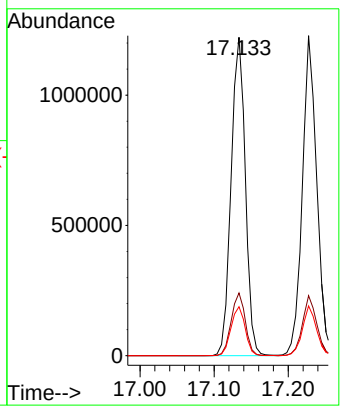


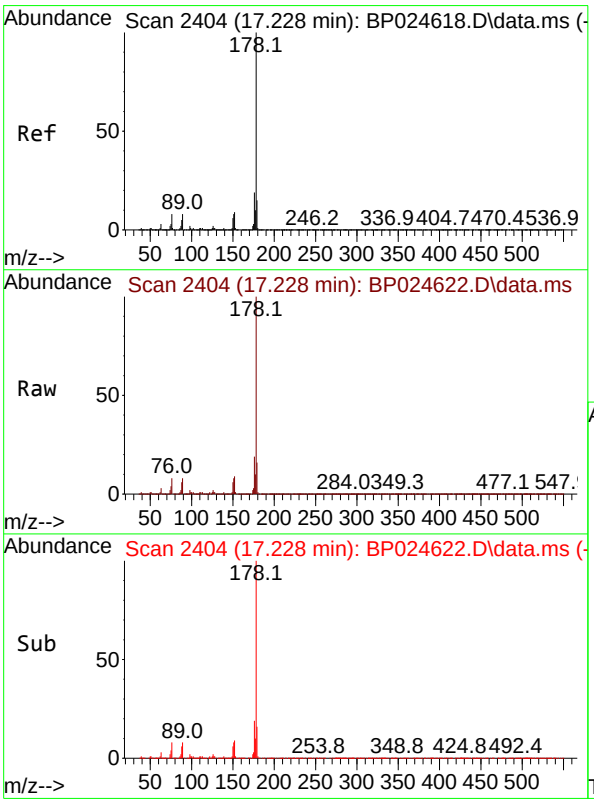
#71
Phenanthrene
Concen: 37.546 ng
RT: 17.133 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:178 Resp: 1629118

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.4	23.2
179	15.4	12.2	18.4

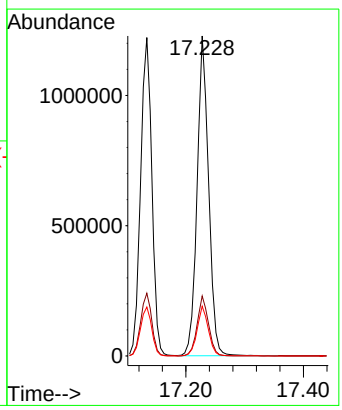


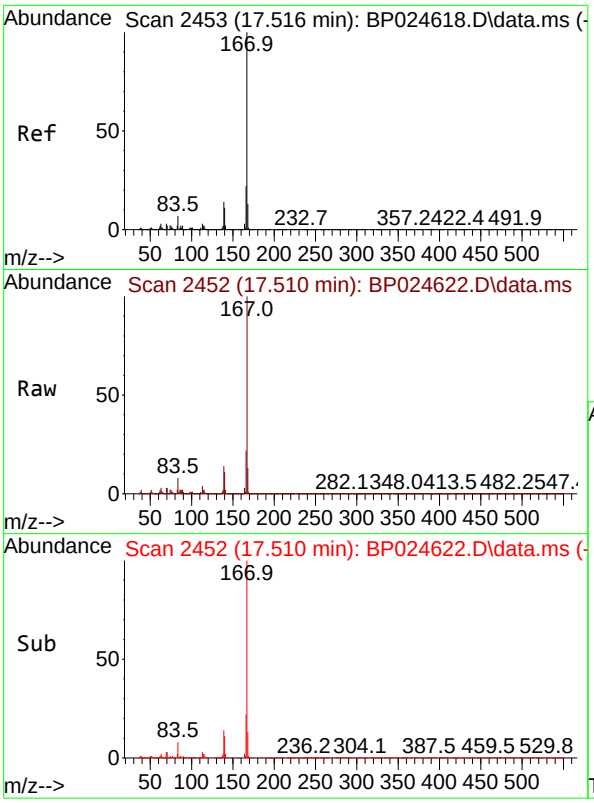


#72
Anthracene
Concen: 38.241 ng
RT: 17.228 min Scan# 2404
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:178 Resp: 1669395

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.5	12.2	18.2



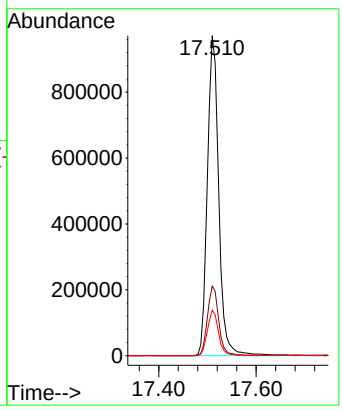


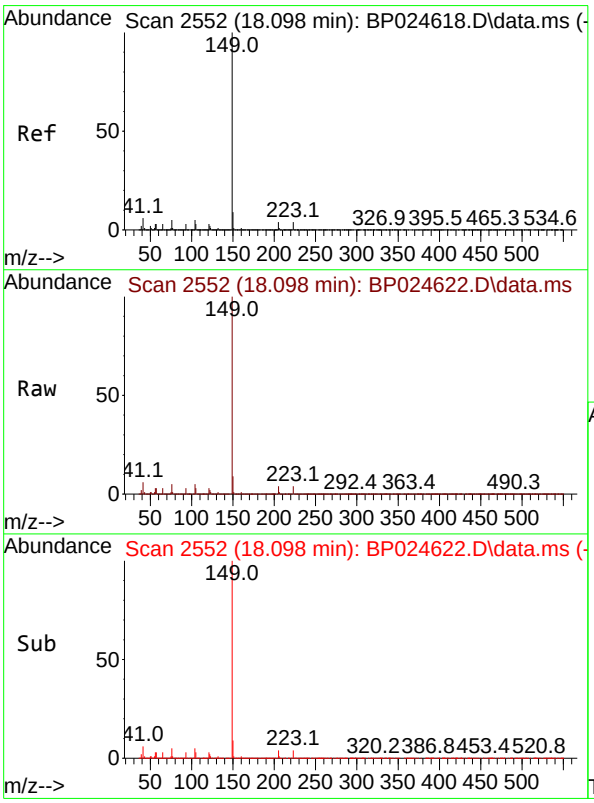
#73
Carbazole
Concen: 39.575 ng
RT: 17.510 min Scan# 24
Delta R.T. -0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:167 Resp: 1563685

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.7	26.5
139	14.2	11.3	16.9

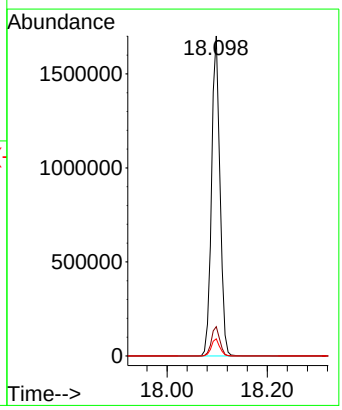


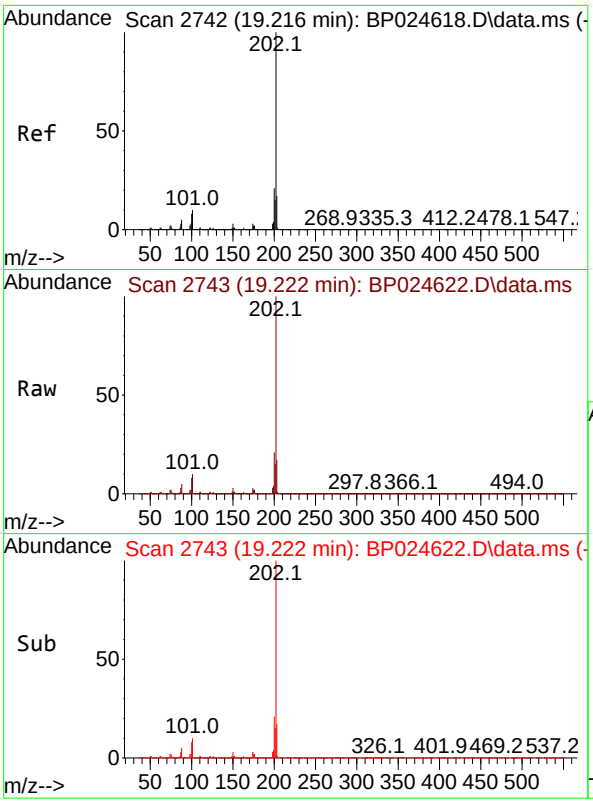


#74
Di-n-butylphthalate
Concen: 38.939 ng
RT: 18.098 min Scan# 2552
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:149 Resp: 1978741

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	5.4	4.3	6.5



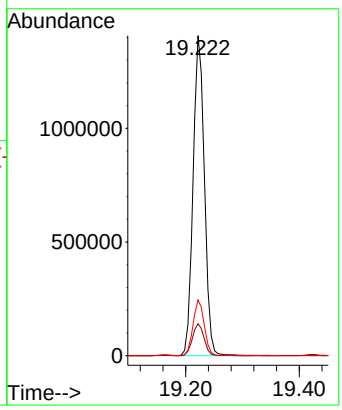


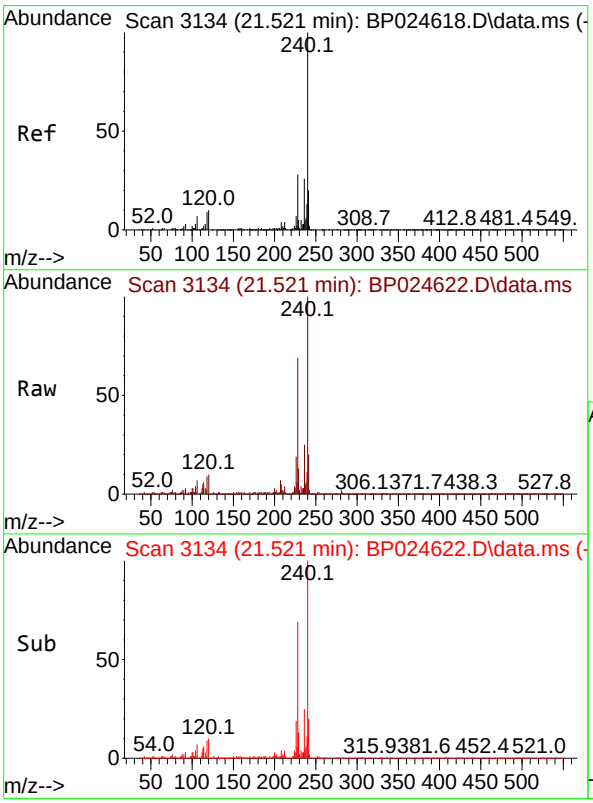
#75
Fluoranthene
Concen: 38.566 ng
RT: 19.222 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:202 Resp: 1956043

Ion	Ratio	Lower	Upper
202	100		
101	10.0	0.0	30.3
203	17.4	0.0	37.5

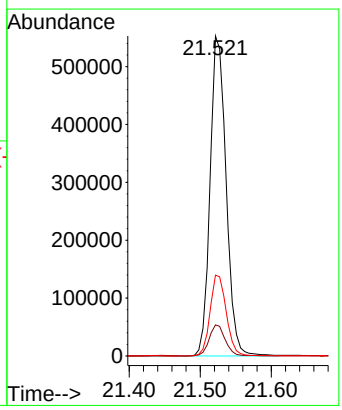


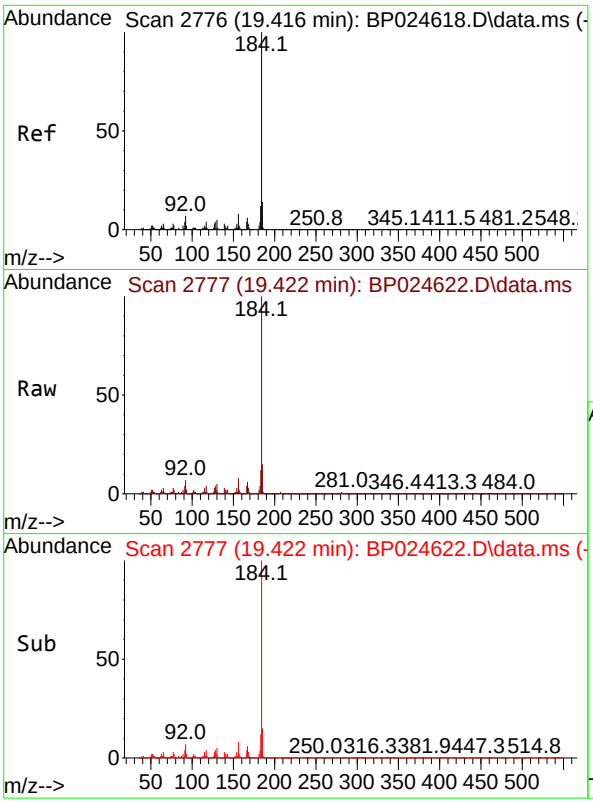


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.521 min Scan# 3134
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:240 Resp: 868822

Ion	Ratio	Lower	Upper
240	100		
120	9.7	7.8	11.6
236	25.2	20.6	31.0



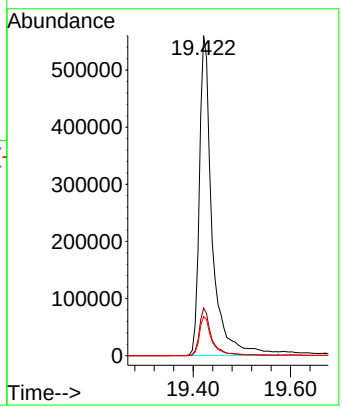


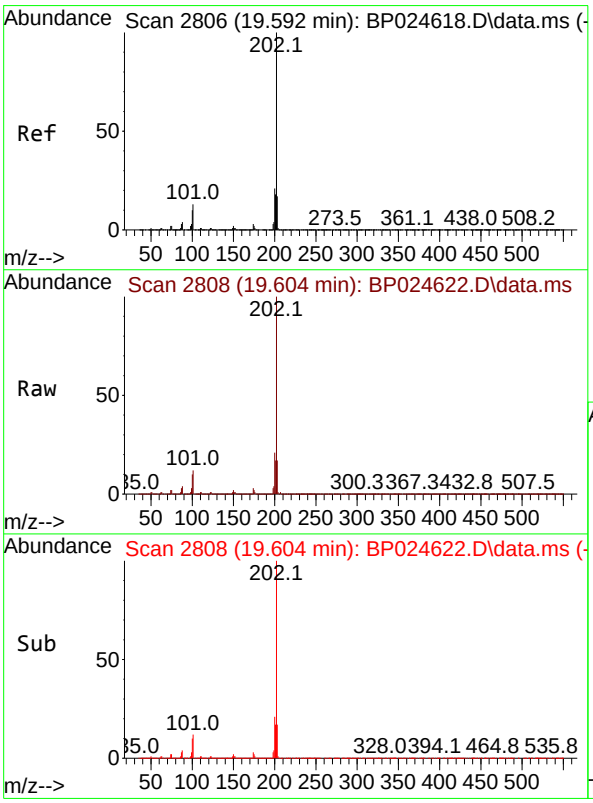
#77
Benzidine
Concen: 43.253 ng
RT: 19.422 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:184 Resp: 1023514

Ion	Ratio	Lower	Upper
184	100		
185	14.9	11.2	16.8
183	12.3	9.8	14.8

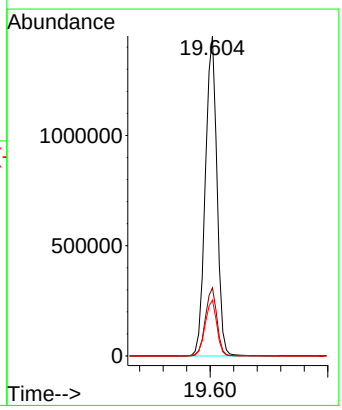


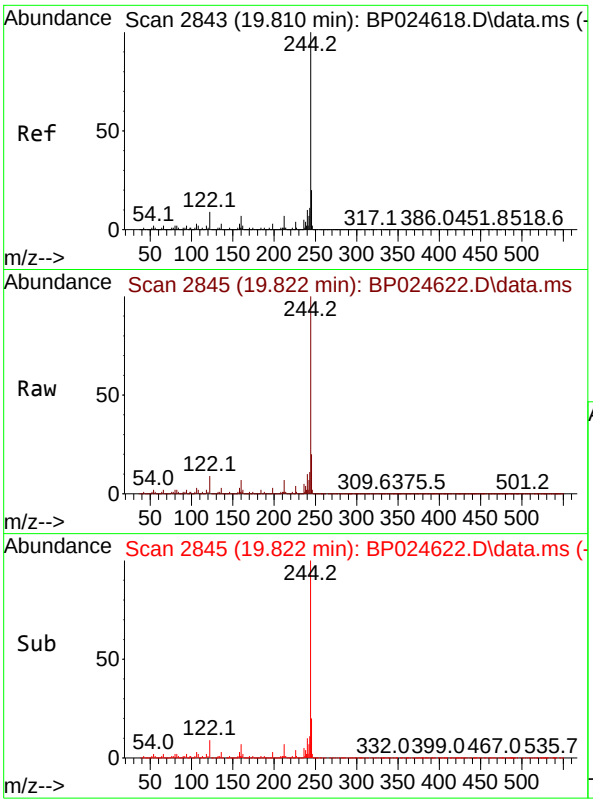


#78
Pyrene
Concen: 38.281 ng
RT: 19.604 min Scan# 2808
Delta R.T. 0.012 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:202 Resp: 1992845

Ion	Ratio	Lower	Upper
202	100		
200	21.3	16.9	25.3
203	17.5	13.9	20.9



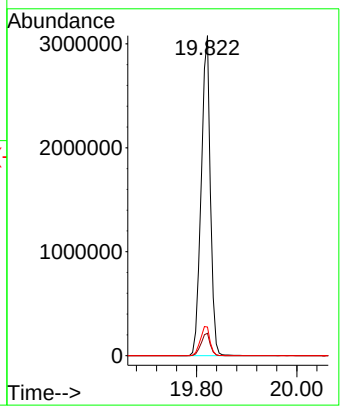


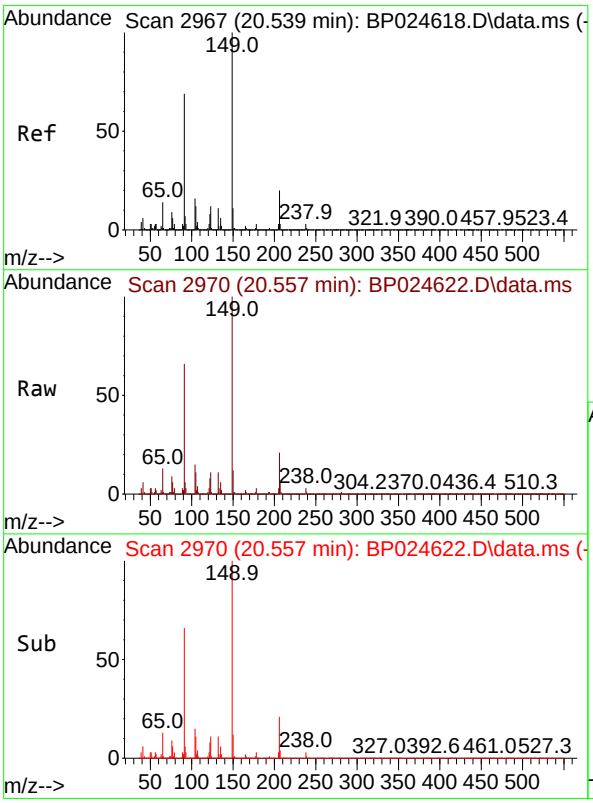
#79
Terphenyl-d14
Concen: 76.753 ng
RT: 19.822 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:244 Resp: 3889002

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	9.0	7.4	11.0

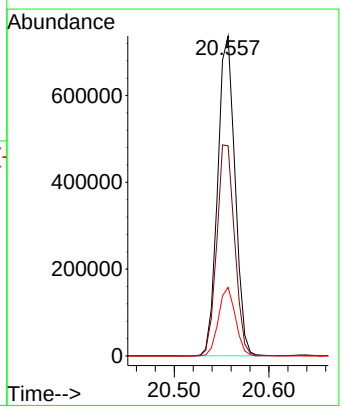


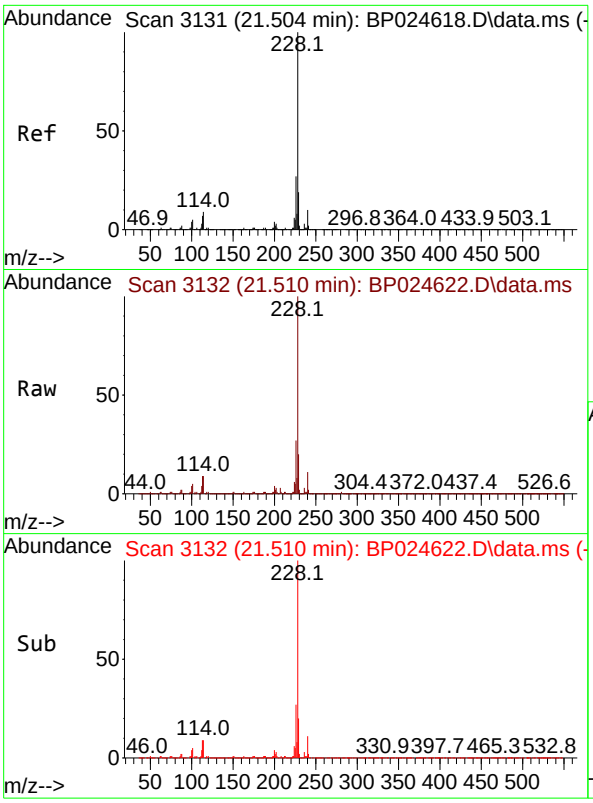


#80
Butylbenzylphthalate
Concen: 40.523 ng
RT: 20.557 min Scan# 2970
Delta R.T. 0.018 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:149 Resp: 938210

Ion	Ratio	Lower	Upper
149	100		
91	65.7	55.4	83.0
206	21.5	16.2	24.2



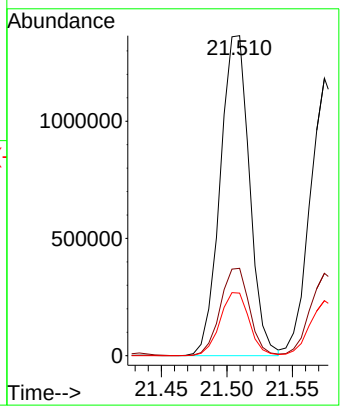


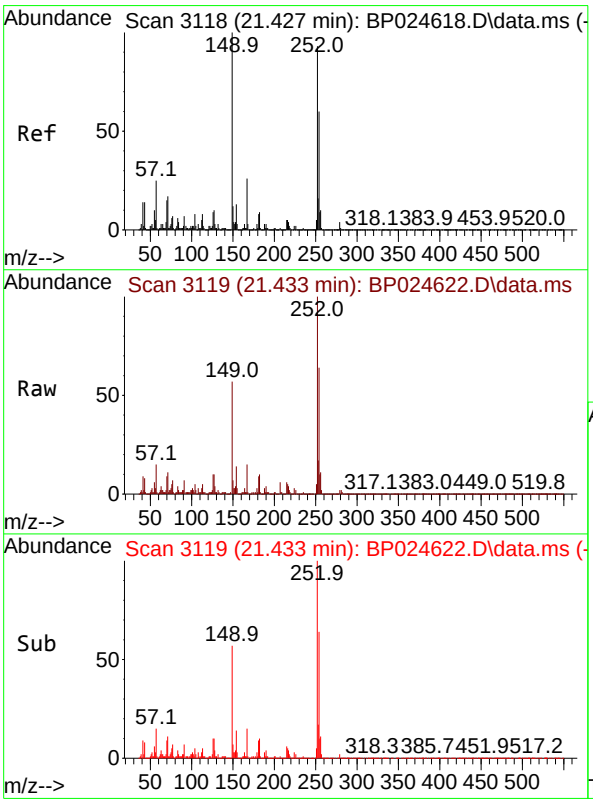
#81
Benzo(a)anthracene
Concen: 38.889 ng
RT: 21.510 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:228 Resp: 2121561

Ion	Ratio	Lower	Upper
228	100		
226	27.3	21.4	32.0
229	19.6	15.5	23.3

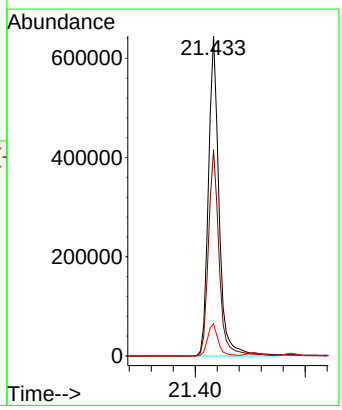


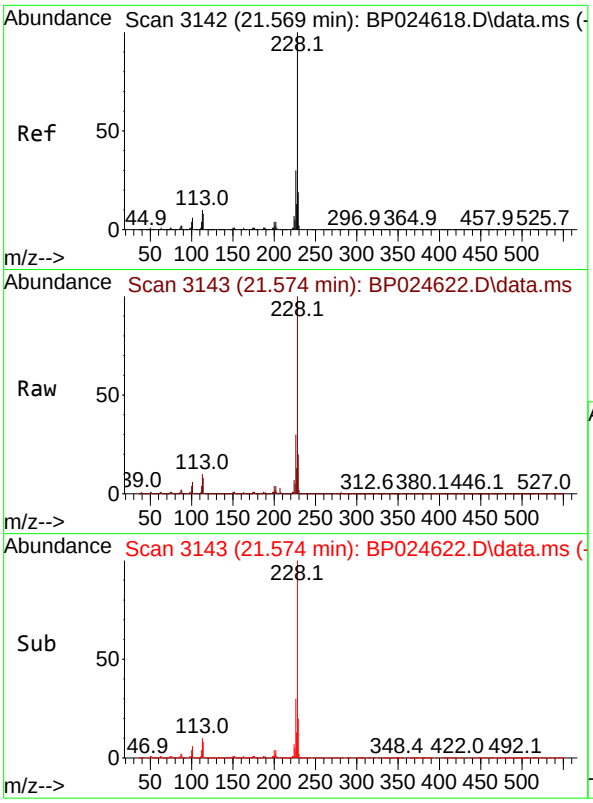


#82
3,3'-Dichlorobenzidine
Concen: 42.508 ng
RT: 21.433 min Scan# 3119
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:252 Resp: 861323

Ion	Ratio	Lower	Upper
252	100		
254	64.4	51.8	77.6
126	10.1	7.7	11.5



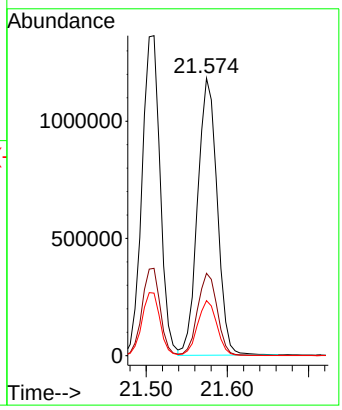


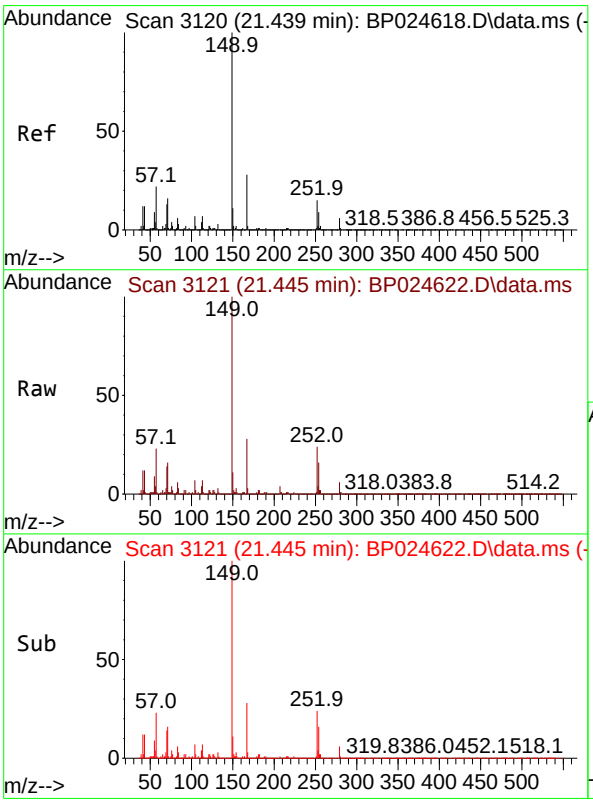
#83
Chrysene
Concen: 38.227 ng
RT: 21.574 min Scan# 31
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:228 Resp: 1976940

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.9	35.9
229	19.9	15.5	23.3

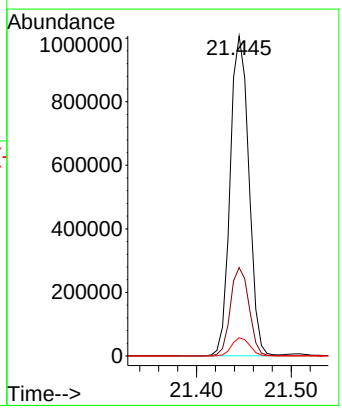


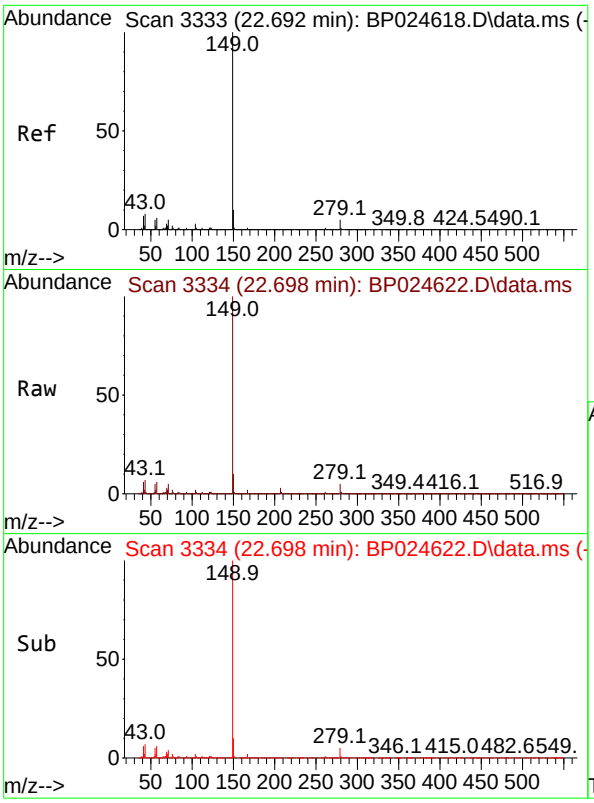


#84
Bis(2-ethylhexyl)phthalate
Concen: 40.433 ng
RT: 21.445 min Scan# 3121
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:149 Resp: 1375919

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.1	33.1
279	5.7	4.6	6.8



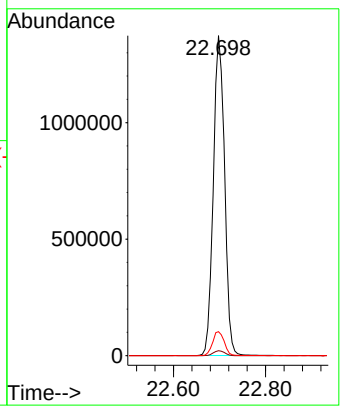


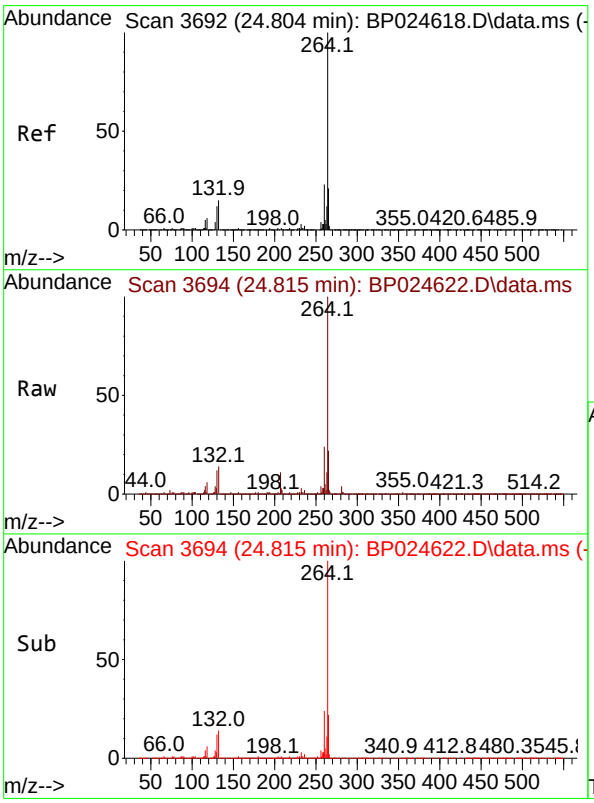
#85
Di-n-octyl phthalate
Concen: 41.721 ng
RT: 22.698 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:149 Resp: 2321673

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.8	6.3	9.5

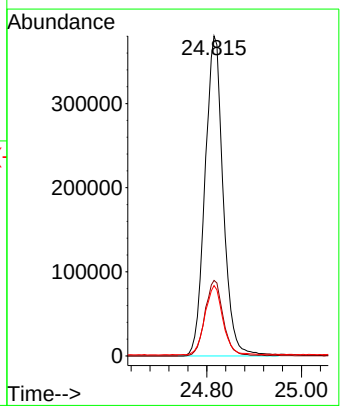


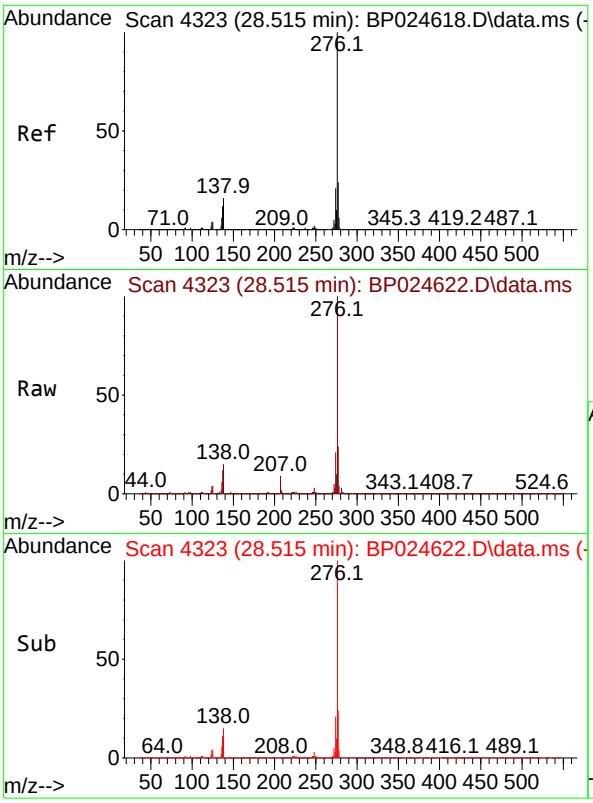


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.815 min Scan# 3694
Delta R.T. 0.012 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:264 Resp: 1015341

Ion	Ratio	Lower	Upper
264	100		
260	23.6	18.7	28.1
265	22.0	17.0	25.6



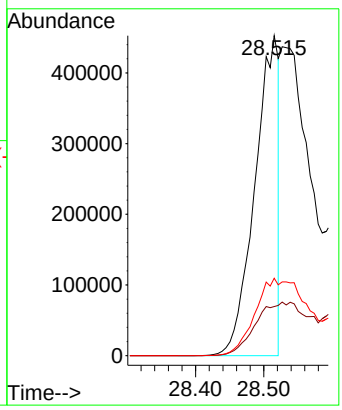


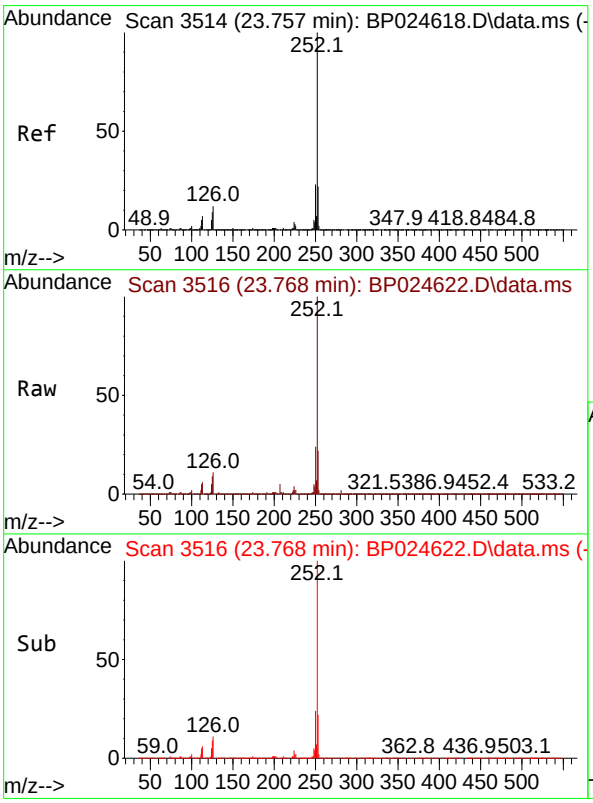
#87
Indeno(1,2,3-cd)pyrene
Concen: 14.798 ng
RT: 28.515 min Scan# 4
Delta R.T. -0.000 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:276 Resp: 1096892

Ion	Ratio	Lower	Upper
276	100		
138	37.4	11.2	16.8#
277	27.8	15.7	23.5#

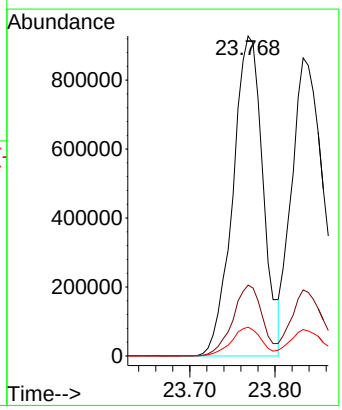


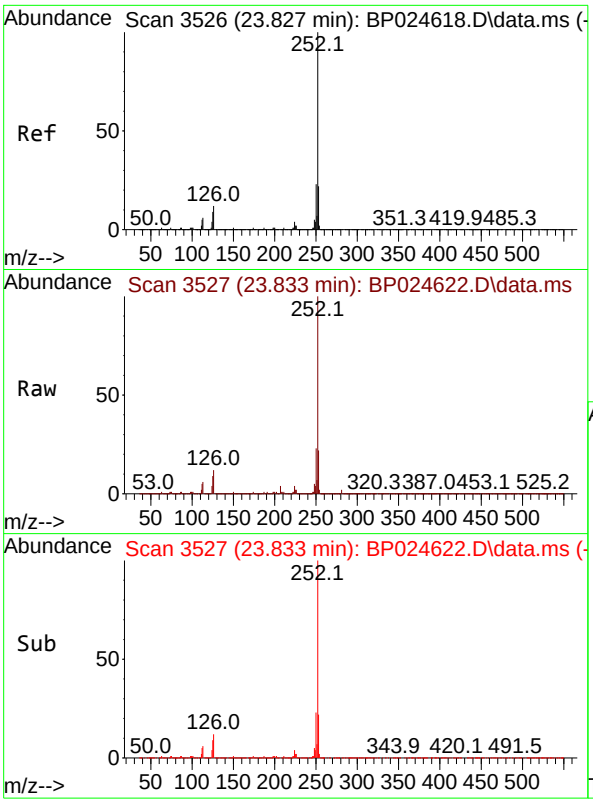


#88
Benzo(b)fluoranthene
Concen: 39.289 ng
RT: 23.768 min Scan# 3516
Delta R.T. 0.012 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:252 Resp: 2283322

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.7	26.5
125	9.0	7.5	11.3



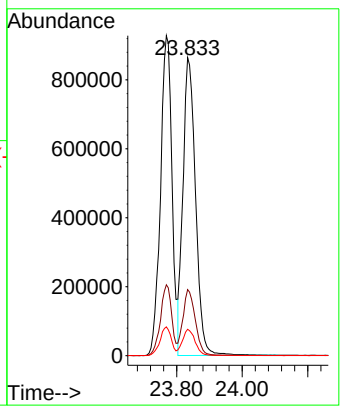


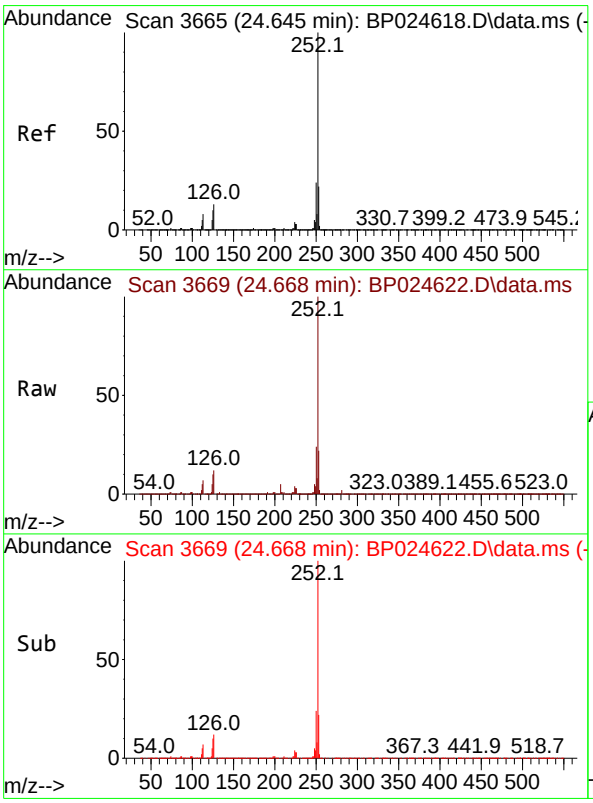
#89
Benzo(k)fluoranthene
Concen: 38.223 ng
RT: 23.833 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:252 Resp: 2289000

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	8.9	7.0	10.4

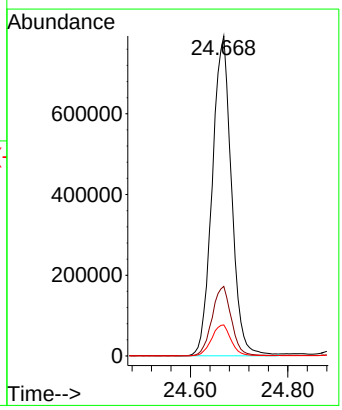


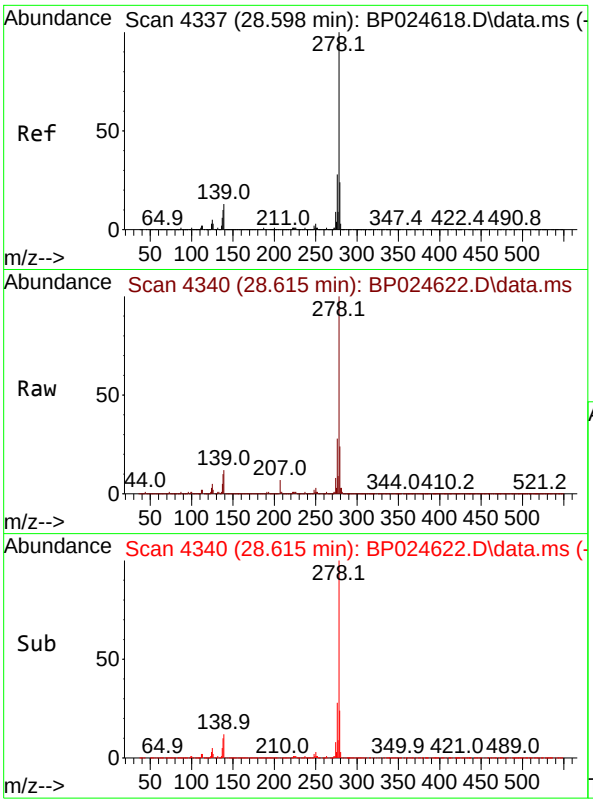


#90
Benzo(a)pyrene
Concen: 39.004 ng
RT: 24.668 min Scan# 3669
Delta R.T. 0.023 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:252 Resp: 2177020

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.7	26.5
125	9.7	8.1	12.1



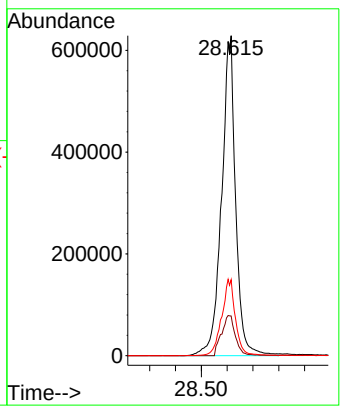


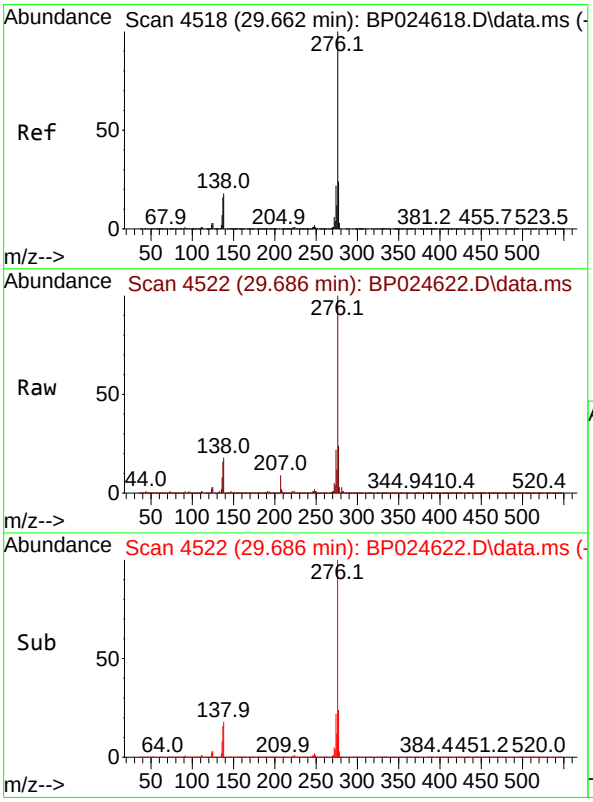
#91
Dibenzo(a,h)anthracene
Concen: 39.377 ng
RT: 28.615 min Scan# 4
Delta R.T. 0.018 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Instrument :
BNA_P
ClientSampleId :
ICVBP051325

Tgt Ion:278 Resp: 2374558

Ion	Ratio	Lower	Upper
278	100		
139	12.4	10.2	15.4
279	23.8	19.0	28.4

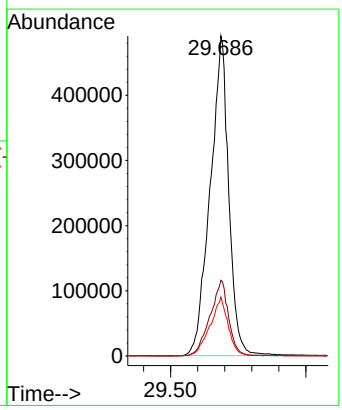




#92
Benzo(g,h,i)perylene
Concen: 38.906 ng
RT: 29.686 min Scan# 4522
Delta R.T. 0.023 min
Lab File: BP024622.D
Acq: 13 May 2025 17:01

Tgt Ion:276 Resp: 2333151

Ion	Ratio	Lower	Upper
276	100		
277	23.6	19.0	28.4
138	18.4	14.4	21.6



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024636.D
Acq On : 15 May 2025 13:53
Operator : RC/JU
Sample : PB167973BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Quant Time: May 15 14:53:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.646	152	131081	20.000	ng	-0.02
21) Naphthalene-d8	10.422	136	537517	20.000	ng	-0.01
39) Acenaphthene-d10	14.298	164	347277	20.000	ng	0.00
64) Phenanthrene-d10	17.098	188	706031	20.000	ng	0.00
76) Chrysene-d12	21.533	240	796554	20.000	ng	0.01
86) Perylene-d12	24.827	264	897451	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.275	112	1028325	134.178	ng	-0.01
7) Phenol-d6	6.840	99	1300659	132.975	ng	-0.01
23) Nitrobenzene-d5	8.799	82	806449	75.806	ng	-0.01
42) 2,4,6-Tribromophenol	15.816	330	789015	134.019	ng	0.00
45) 2-Fluorobiphenyl	12.904	172	1973979	74.470	ng	0.00
79) Terphenyl-d14	19.827	244	3529175	75.970	ng	0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.216	88	121131	33.659	ng	98
3) Pyridine	3.605	79	290510	36.406	ng	97
4) n-Nitrosodimethylamine	3.516	42	145603	41.331	ng	94
6) Aniline	6.987	93	371995	29.457	ng	99
8) 2-Chlorophenol	7.228	128	398786	45.837	ng	99
9) Benzaldehyde	6.799	77	230797	36.451	ng	95
10) Phenol	6.869	94	467973	46.355	ng	100
11) bis(2-Chloroethyl)ether	7.081	93	326477	39.356	ng	98
12) 1,3-Dichlorobenzene	7.540	146	410853	41.046	ng	99
13) 1,4-Dichlorobenzene	7.681	146	413519	41.075	ng	99
14) 1,2-Dichlorobenzene	7.999	146	399364	40.711	ng	100
15) Benzyl Alcohol	7.893	79	332118	44.682	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.163	45	395746	39.836	ng	99
17) 2-Methylphenol	8.099	107	329941	45.567	ng	98
18) Hexachloroethane	8.710	117	157764	40.894	ng	96
19) n-Nitroso-di-n-propyla...	8.452	70	270905	40.039	ng	99
20) 3+4-Methylphenols	8.422	107	451573	45.848	ng	99
22) Acetophenone	8.463	105	567593	42.273	ng	100
24) Nitrobenzene	8.840	77	404402	43.197	ng	99
25) Isophorone	9.357	82	767868	41.611	ng	99
26) 2-Nitrophenol	9.540	139	212672	46.359	ng	97
27) 2,4-Dimethylphenol	9.610	122	380304	47.020	ng	99
28) bis(2-Chloroethoxy)met...	9.840	93	467255	42.382	ng	99
29) 2,4-Dichlorophenol	10.087	162	382143	48.756	ng	98
30) 1,2,4-Trichlorobenzene	10.287	180	381129	43.151	ng	98
31) Naphthalene	10.475	128	1179733	42.353	ng	99
32) Benzoic acid	9.775	122	262342	46.811	ng	99
33) 4-Chloroaniline	10.593	127	215778	19.197	ng	100
34) Hexachlorobutadiene	10.757	225	244032	42.650	ng	98
35) Caprolactam	11.381	113	128809	45.423	ng	97
36) 4-Chloro-3-methylphenol	11.728	107	416701	43.596	ng	100
37) 2-Methylnaphthalene	12.087	142	759040	42.084	ng	99
38) 1-Methylnaphthalene	12.310	142	813878	42.174	ng	100
40) 1,2,4,5-Tetrachloroben...	12.463	216	439636	43.595	ng	99
41) Hexachlorocyclopentadiene	12.440	237	618099	101.081	ng	97
43) 2,4,6-Trichlorophenol	12.710	196	317048	48.539	ng	98

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024636.D
Acq On : 15 May 2025 13:53
Operator : RC/JU
Sample : PB167973BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Quant Time: May 15 14:53:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.787	196	355418	48.883	ng		98
46) 1,1'-Biphenyl	13.110	154	1087547	42.370	ng		99
47) 2-Chloronaphthalene	13.157	162	830827	42.452	ng		100
48) 2-Nitroaniline	13.369	65	261668	45.161	ng		98
49) Acenaphthylene	14.016	152	1399482	42.731	ng		100
50) Dimethylphthalate	13.757	163	1142335	43.156	ng		100
51) 2,6-Dinitrotoluene	13.869	165	252742	45.211	ng		97
52) Acenaphthene	14.363	154	813698	43.217	ng		99
53) 3-Nitroaniline	14.210	138	171345	30.018	ng		98
54) 2,4-Dinitrophenol	14.428	184	327717	91.929	ng		97
55) Dibenzofuran	14.698	168	1314124	43.757	ng		99
56) 4-Nitrophenol	14.545	139	454745	91.385	ng		98
57) 2,4-Dinitrotoluene	14.675	165	364632	46.266	ng		98
58) Fluorene	15.363	166	1086996	44.389	ng		100
59) 2,3,4,6-Tetrachlorophenol	14.934	232	316831	46.974	ng		100
60) Diethylphthalate	15.139	149	1184435	44.273	ng		99
61) 4-Chlorophenyl-phenyle...	15.351	204	542996	44.463	ng		98
62) 4-Nitroaniline	15.404	138	262574	47.641	ng		98
63) Azobenzene	15.657	77	1009501	44.109	ng		98
65) 4,6-Dinitro-2-methylph...	15.463	198	216160	47.398	ng		99
66) n-Nitrosodiphenylamine	15.575	169	961865	44.353	ng		99
67) 4-Bromophenyl-phenylether	16.269	248	372135	44.731	ng		99
68) Hexachlorobenzene	16.392	284	458305	43.353	ng		100
69) Atrazine	16.563	200	368913	46.419	ng		99
70) Pentachlorophenol	16.745	266	625082	105.335	ng		98
71) Phenanthrene	17.139	178	1720387	43.832	ng		100
72) Anthracene	17.233	178	1747224	44.246	ng		99
73) Carbazole	17.516	167	1617275	45.249	ng		100
74) Di-n-butylphthalate	18.110	149	2121998	46.164	ng		99
75) Fluoranthene	19.227	202	2040733	44.480	ng		100
77) Benzidine	19.427	184	994653	45.847	ng		99
78) Pyrene	19.604	202	2127702	44.580	ng		100
80) Butylbenzylphthalate	20.563	149	1012695	47.709	ng		97
81) Benzo(a)anthracene	21.516	228	2231437	44.614	ng		100
82) 3,3'-Dichlorobenzidine	21.439	252	558851	30.082	ng		99
83) Chrysene	21.586	228	2076892	43.804	ng		100
84) Bis(2-ethylhexyl)phtha...	21.457	149	1465106	46.960	ng		99
85) Di-n-octyl phthalate	22.710	149	2468875	48.391	ng		100
87) Indeno(1,2,3-cd)pyrene	28.550	276	2512385	38.346	ng	#	90
88) Benzo(b)fluoranthene	23.786	252	2337855	45.511	ng		99
89) Benzo(k)fluoranthene	23.857	252	2439419	46.086	ng		100
90) Benzo(a)pyrene	24.674	252	2298890	46.597	ng		99
91) Dibenzo(a,h)anthracene	28.627	278	2519774	47.273	ng		99
92) Benzo(g,h,i)perylene	29.715	276	2499215	47.150	ng		99

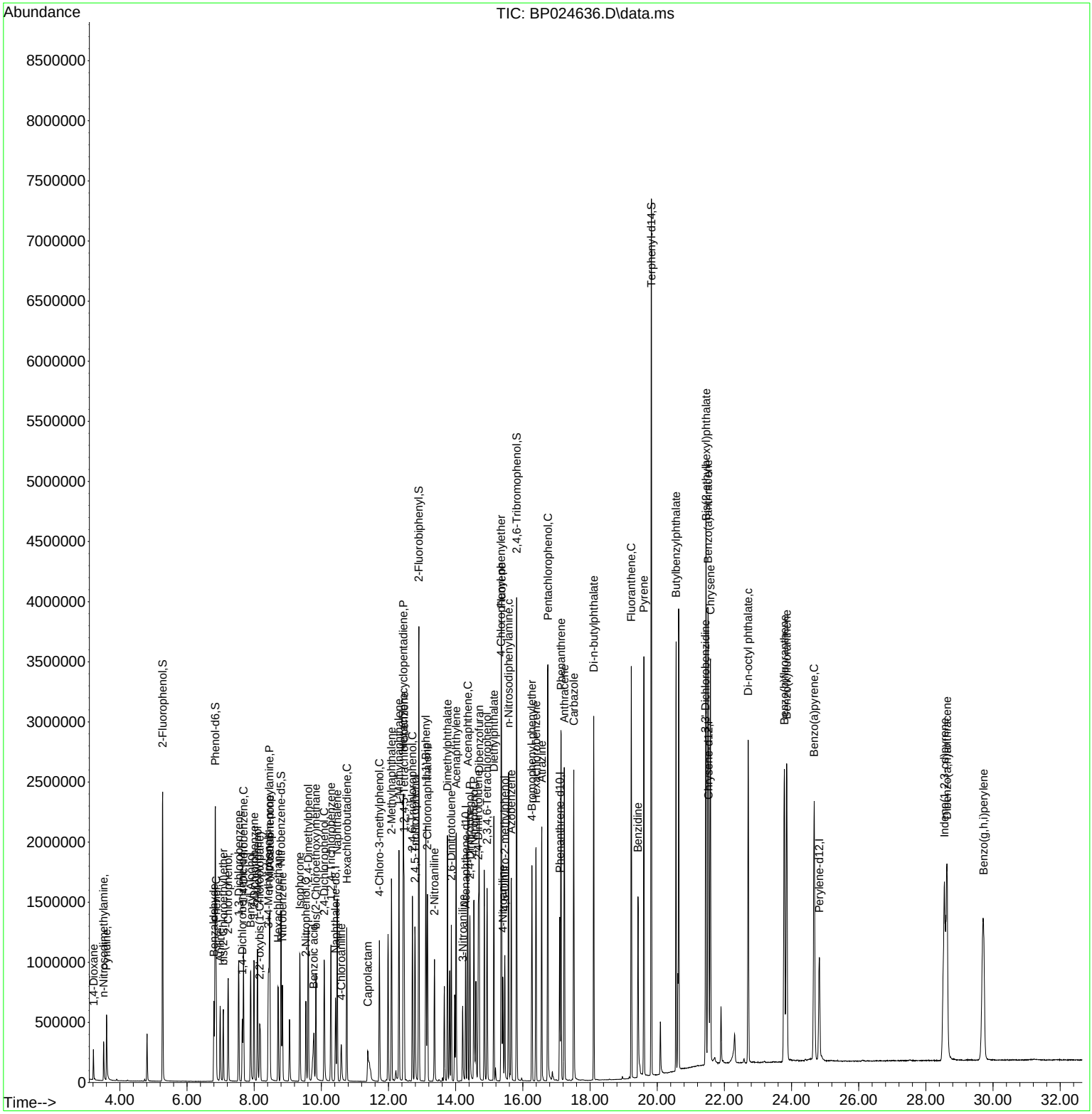
(#) = qualifier out of range (m) = manual integration (+) = signals summed

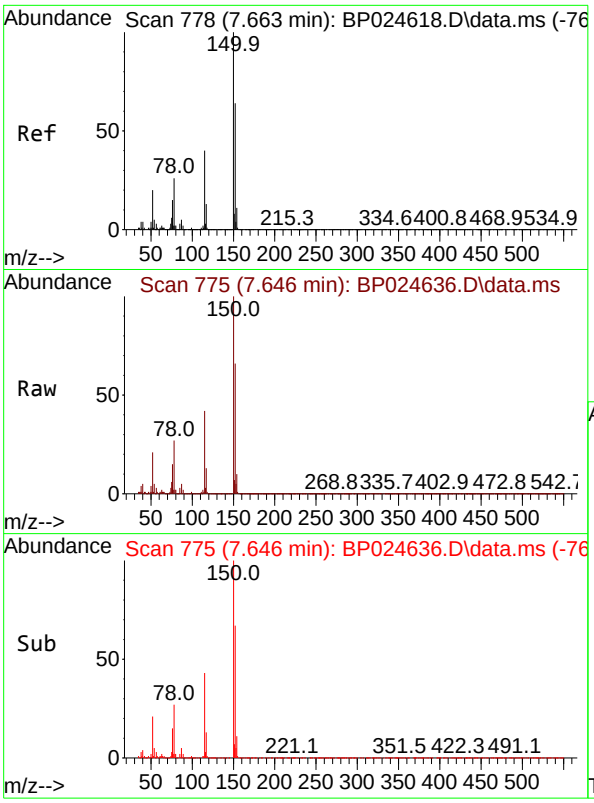
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024636.D
Acq On : 15 May 2025 13:53
Operator : RC/JU
Sample : PB167973BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Quant Time: May 15 14:53:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



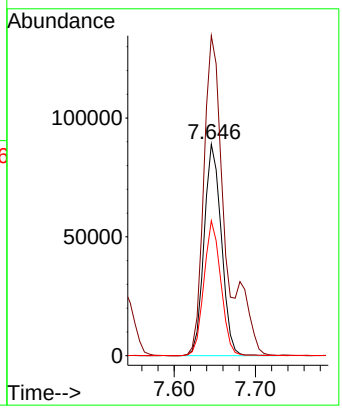


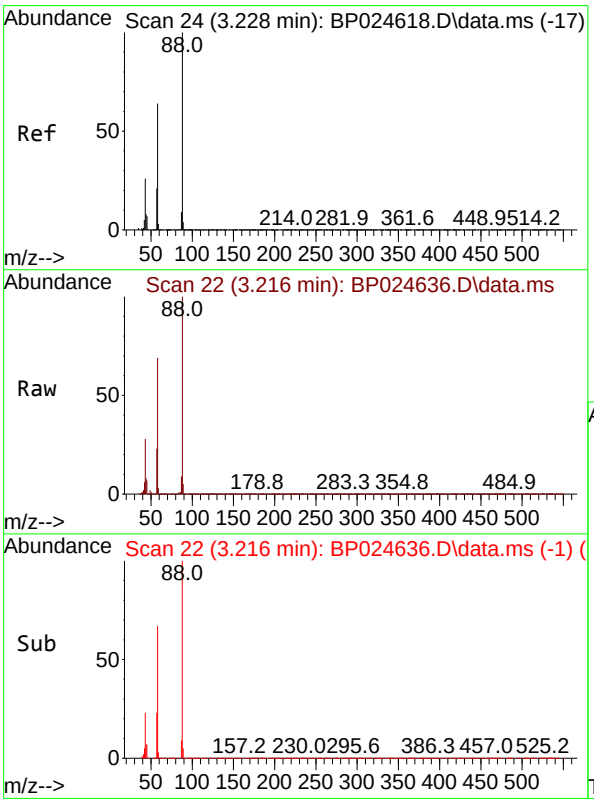
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.646 min Scan# 7
Delta R.T. -0.017 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:152 Resp: 131081

Ion	Ratio	Lower	Upper
152	100		
150	151.3	125.9	188.9
115	63.8	50.1	75.1

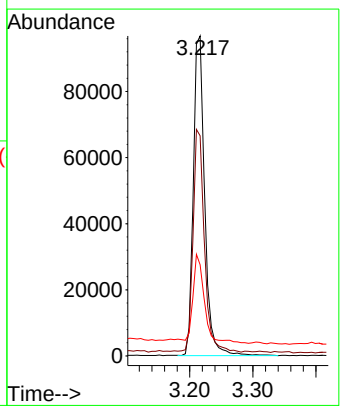


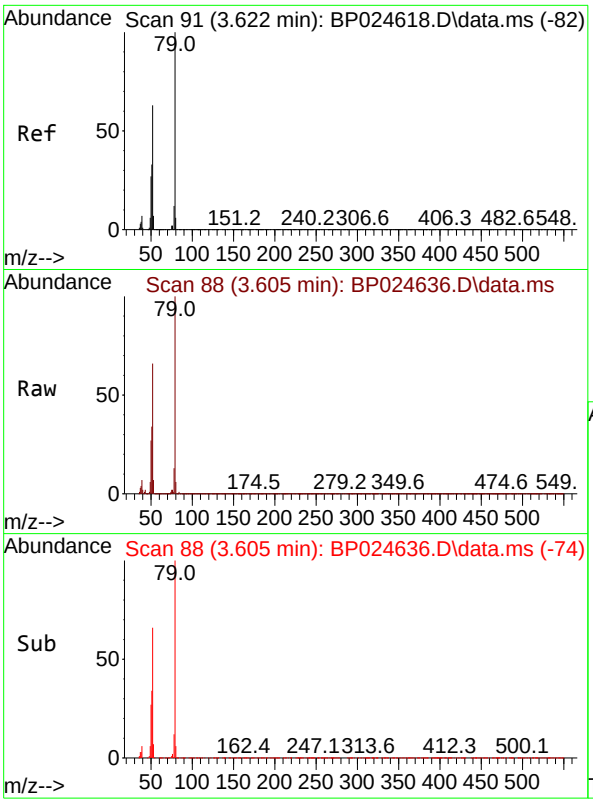


#2
1,4-Dioxane
Concen: 33.659 ng
RT: 3.216 min Scan# 22
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 88 Resp: 121131

Ion	Ratio	Lower	Upper
88	100		
58	69.2	54.0	81.0
43	28.1	21.4	32.0



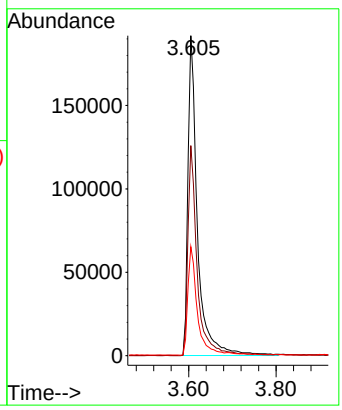


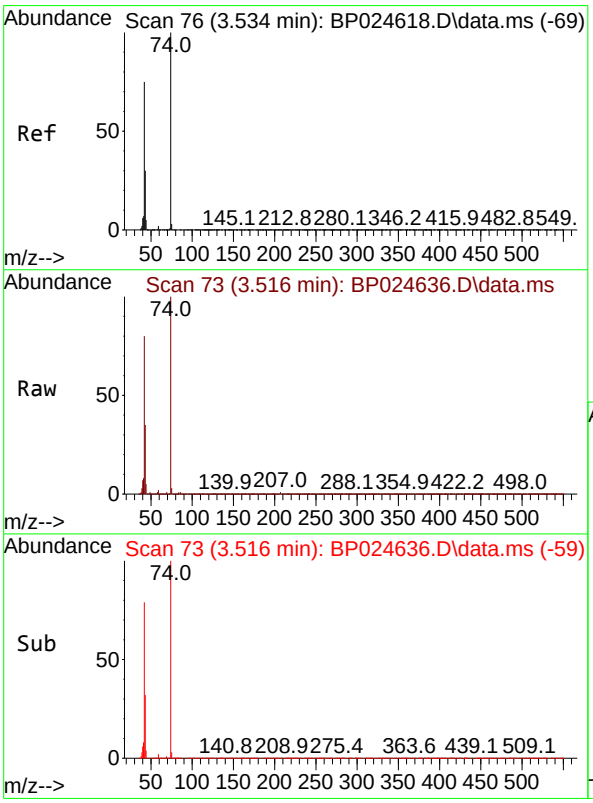
#3
Pyridine
Concen: 36.406 ng
RT: 3.605 min Scan# 8
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 79 Resp: 290510

Ion	Ratio	Lower	Upper
79	100		
52	65.6	50.2	75.2
51	34.0	26.8	40.2

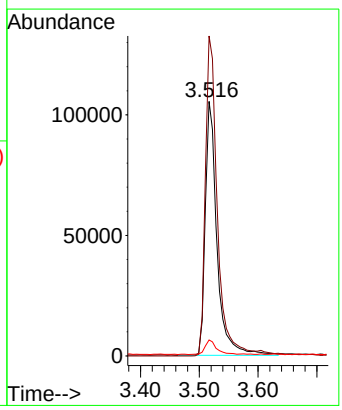


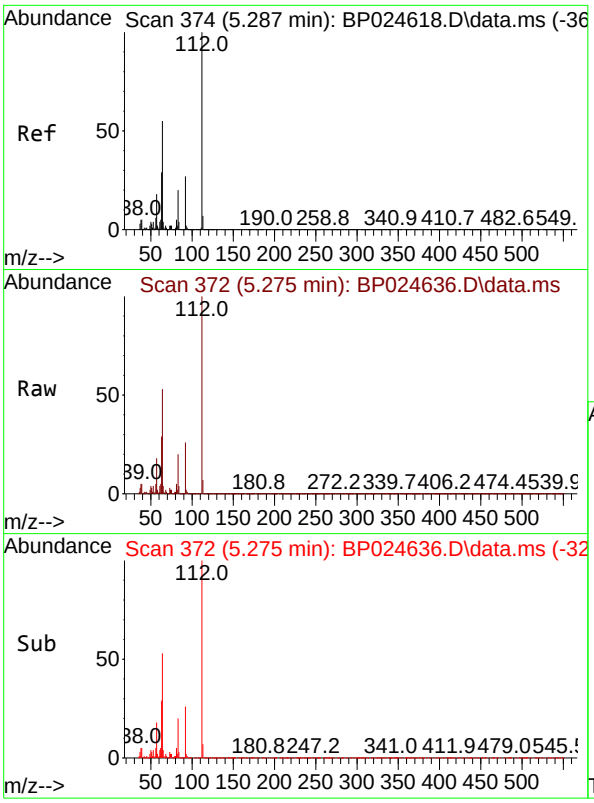


#4
n-Nitrosodimethylamine
Concen: 41.331 ng
RT: 3.516 min Scan# 73
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 42 Resp: 145603

Ion	Ratio	Lower	Upper
42	100		
74	125.7	106.2	159.2
44	6.3	5.4	8.2



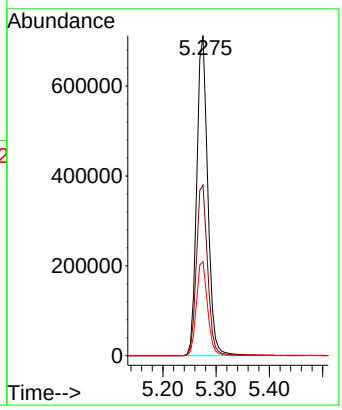


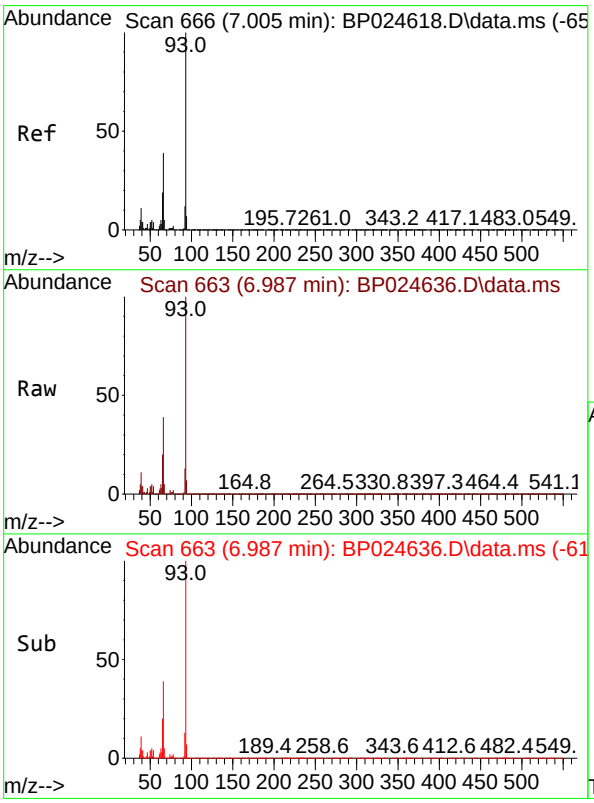
#5
2-Fluorophenol
Concen: 134.178 ng
RT: 5.275 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:112 Resp: 1028325

Ion	Ratio	Lower	Upper
112	100		
64	53.3	44.1	66.1
63	29.3	23.5	35.3

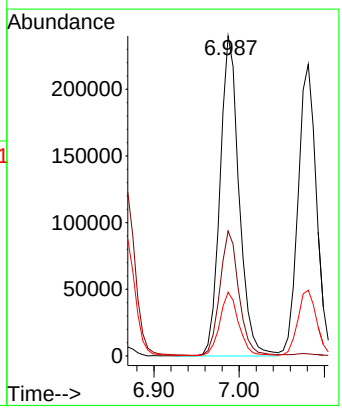


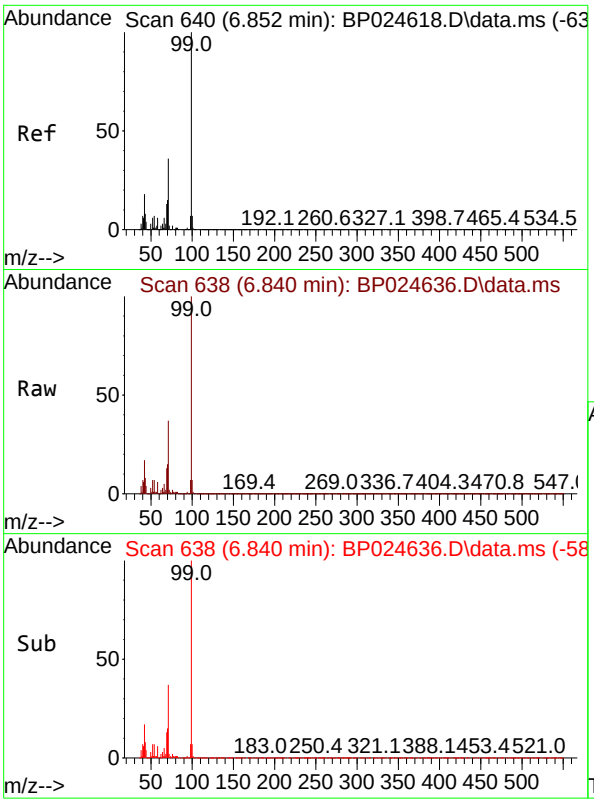


#6
Aniline
Concen: 29.457 ng
RT: 6.987 min Scan# 663
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 93 Resp: 371995

Ion	Ratio	Lower	Upper
93	100		
66	39.0	31.0	46.6
65	19.9	15.5	23.3



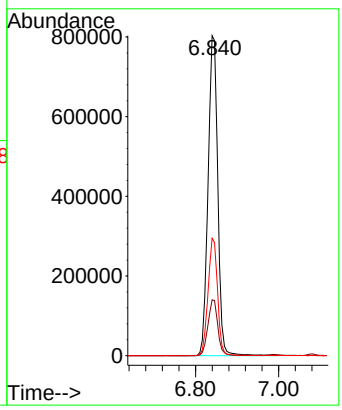


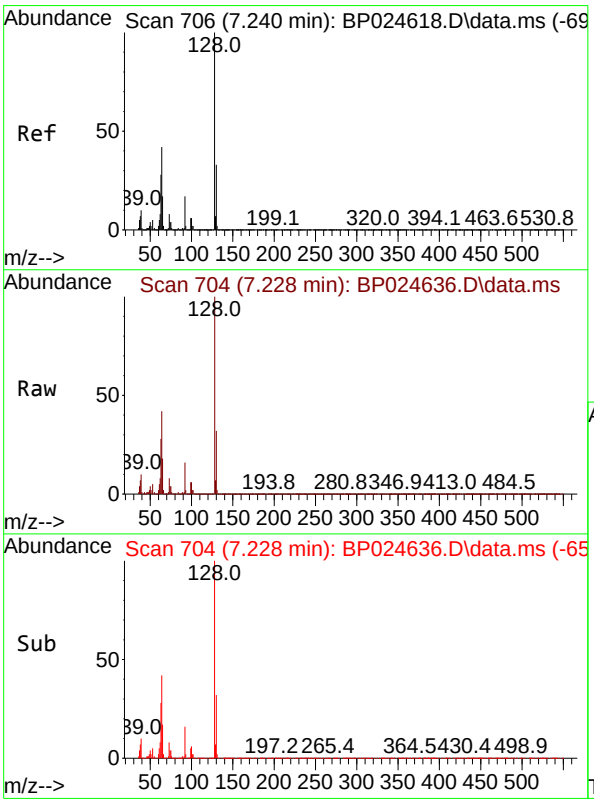
#7
Phenol-d6
Concen: 132.975 ng
RT: 6.840 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 99 Resp: 1300659

Ion	Ratio	Lower	Upper
99	100		
42	17.4	14.4	21.6
71	36.7	29.2	43.8

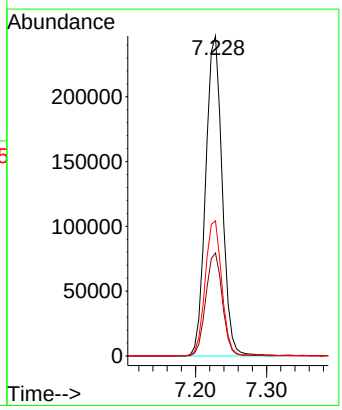


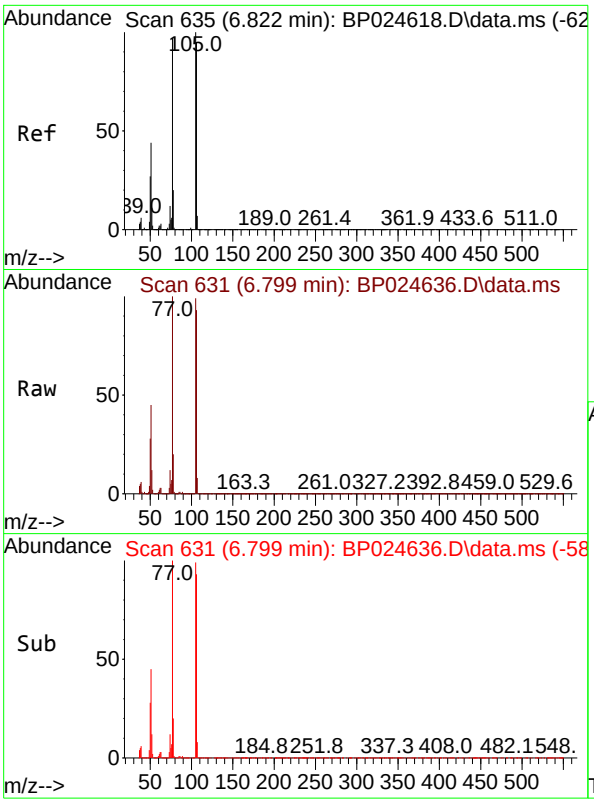


#8
2-Chlorophenol
Concen: 45.837 ng
RT: 7.228 min Scan# 704
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:128 Resp: 398786

Ion	Ratio	Lower	Upper
128	100		
130	32.2	13.0	53.0
64	42.3	22.3	62.3



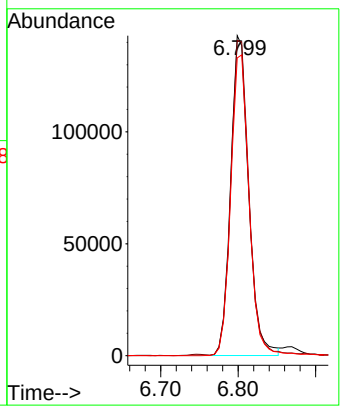


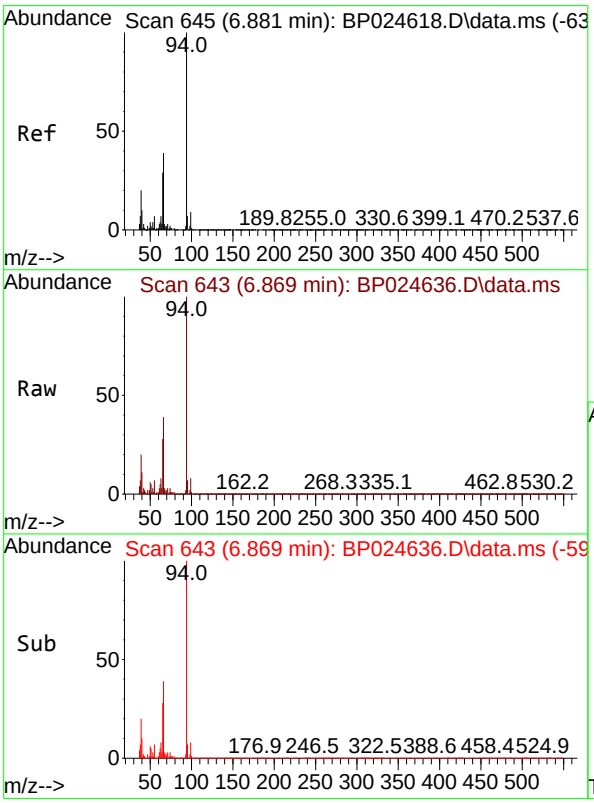
#9
Benzaldehyde
Concen: 36.451 ng
RT: 6.799 min Scan# 6
Delta R.T. -0.024 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 77 Resp: 230797

Ion	Ratio	Lower	Upper
77	100		
105	98.5	83.3	123.3
106	93.1	78.0	118.0

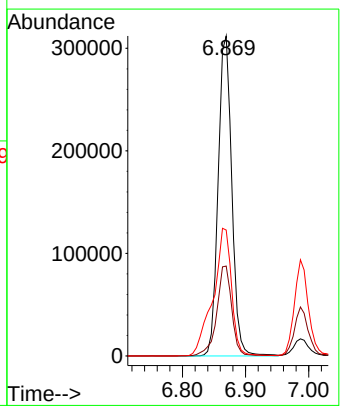


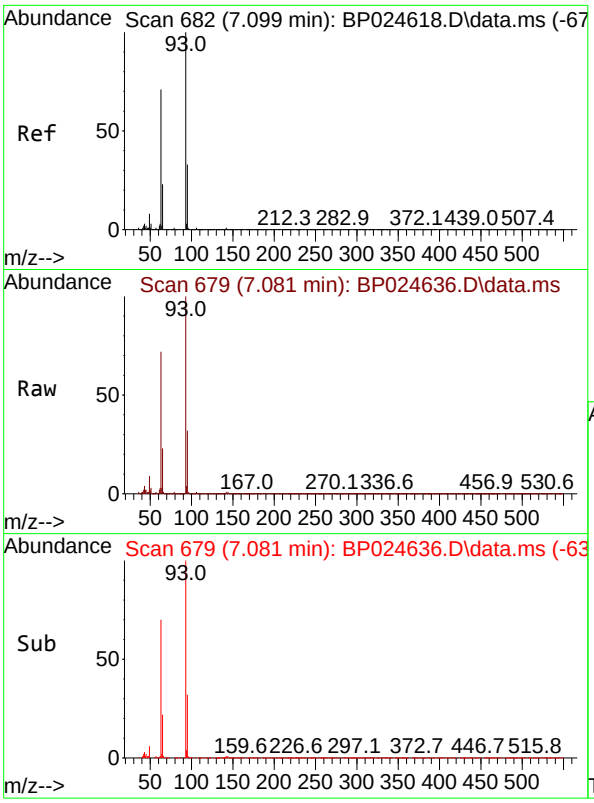


#10
Phenol
Concen: 46.355 ng
RT: 6.869 min Scan# 643
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 94 Resp: 467973

Ion	Ratio	Lower	Upper
94	100		
65	28.1	8.7	48.7
66	39.4	19.4	59.4



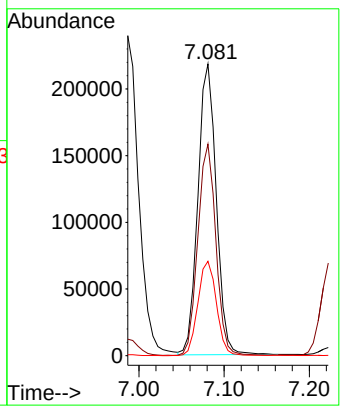


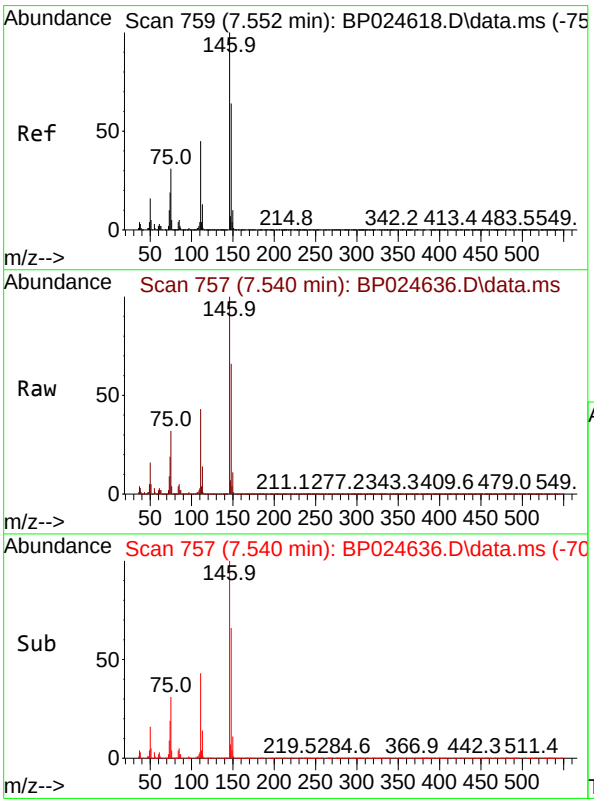
#11
bis(2-Chloroethyl)ether
Concen: 39.356 ng
RT: 7.081 min Scan# 6
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 93 Resp: 326477

Ion	Ratio	Lower	Upper
93	100		
63	72.5	50.6	90.6
95	32.3	12.9	52.9

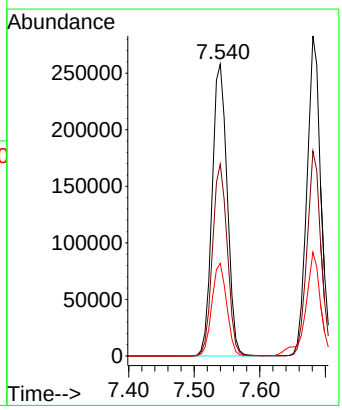


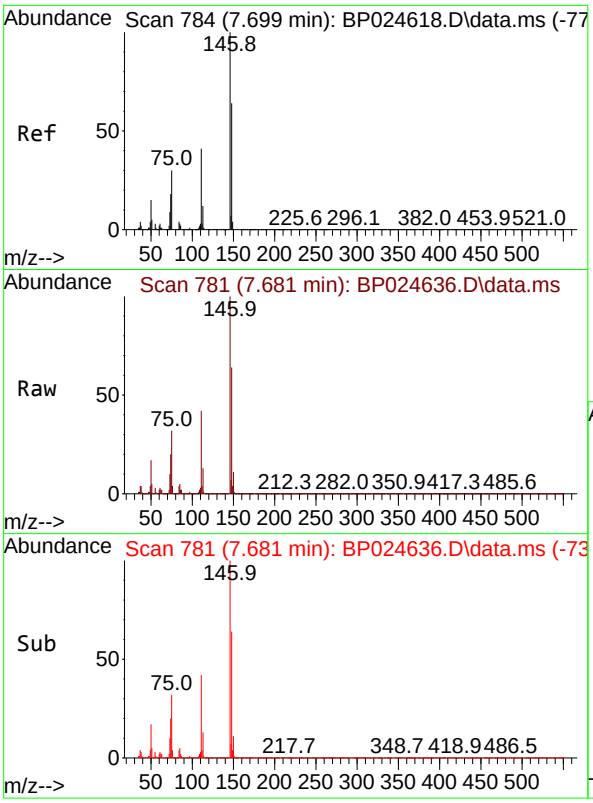


#12
1,3-Dichlorobenzene
Concen: 41.046 ng
RT: 7.540 min Scan# 757
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:146 Resp: 410853

Ion	Ratio	Lower	Upper
146	100		
148	65.7	51.4	77.2
75	31.7	25.2	37.8



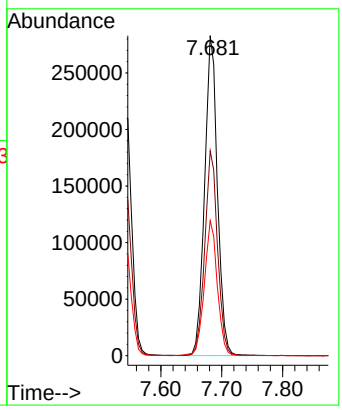


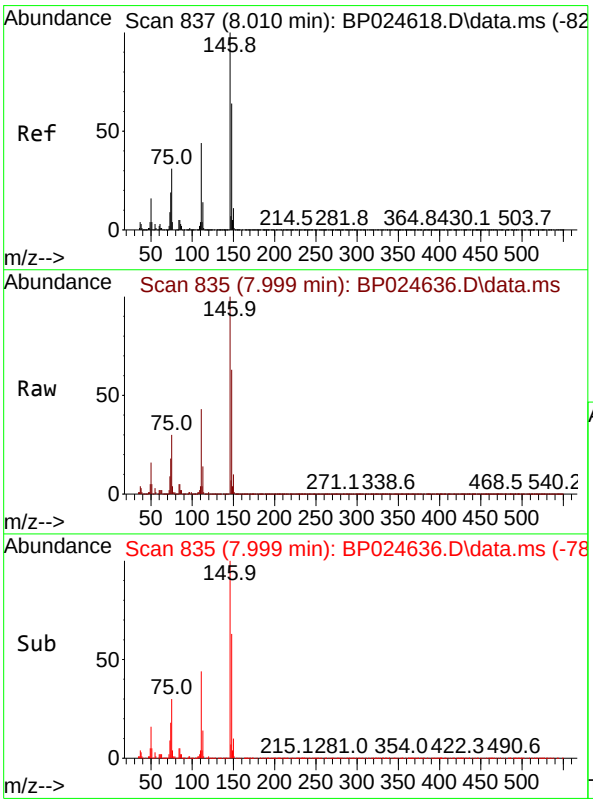
#13
1,4-Dichlorobenzene
Concen: 41.075 ng
RT: 7.681 min Scan# 7
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:146 Resp: 413519

Ion	Ratio	Lower	Upper
146	100		
148	64.0	51.0	76.6
111	42.2	33.0	49.6

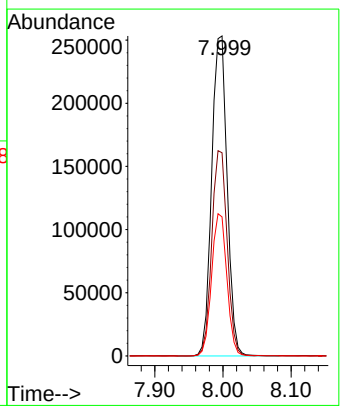


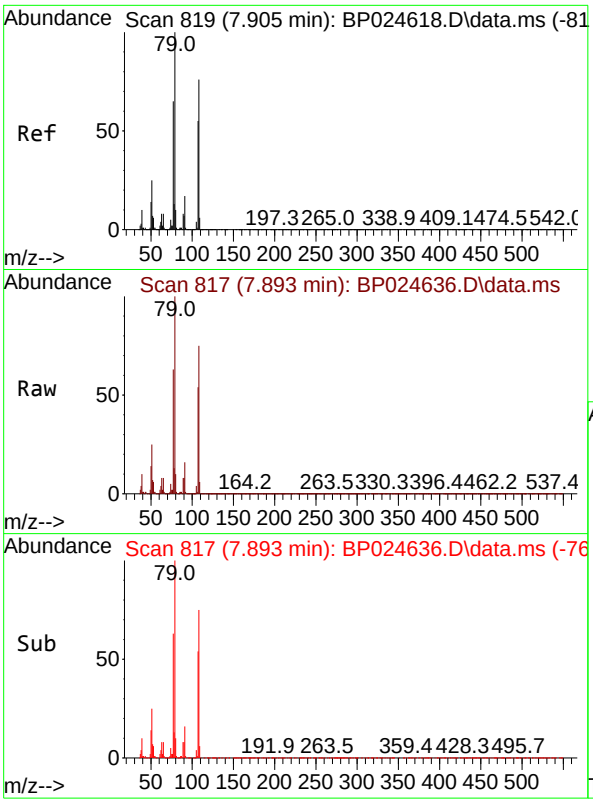


#14
1,2-Dichlorobenzene
Concen: 40.711 ng
RT: 7.999 min Scan# 835
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:146 Resp: 399364

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.0	76.4
111	43.5	35.2	52.8



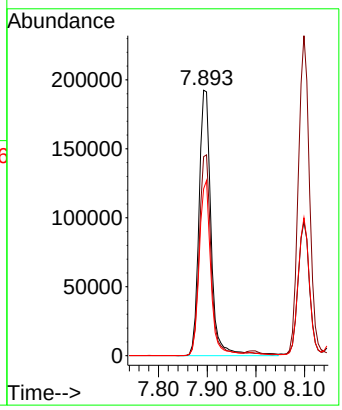


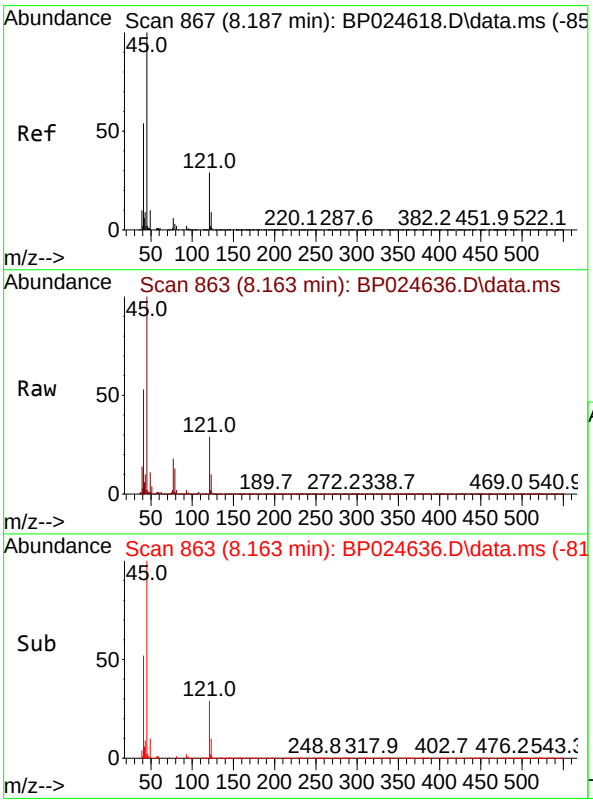
#15
Benzyl Alcohol
Concen: 44.682 ng
RT: 7.893 min Scan# 81
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 79 Resp: 332118

Ion	Ratio	Lower	Upper
79	100		
108	75.0	60.8	91.2
77	62.9	51.9	77.9

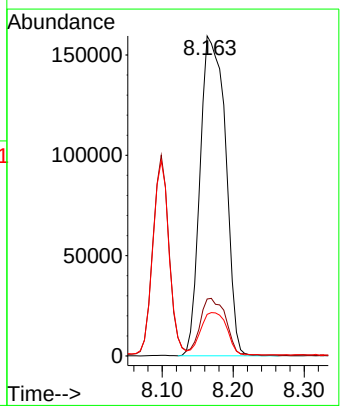


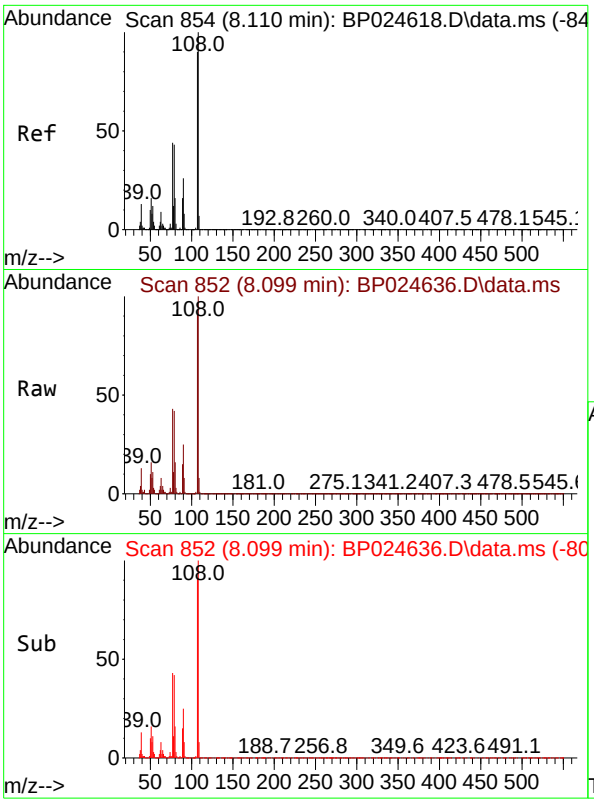


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.836 ng
RT: 8.163 min Scan# 863
Delta R.T. -0.024 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 45 Resp: 395746

Ion	Ratio	Lower	Upper
45	100		
77	17.8	0.0	37.7
79	13.0	0.0	34.0



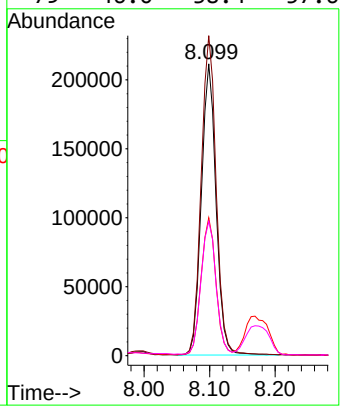


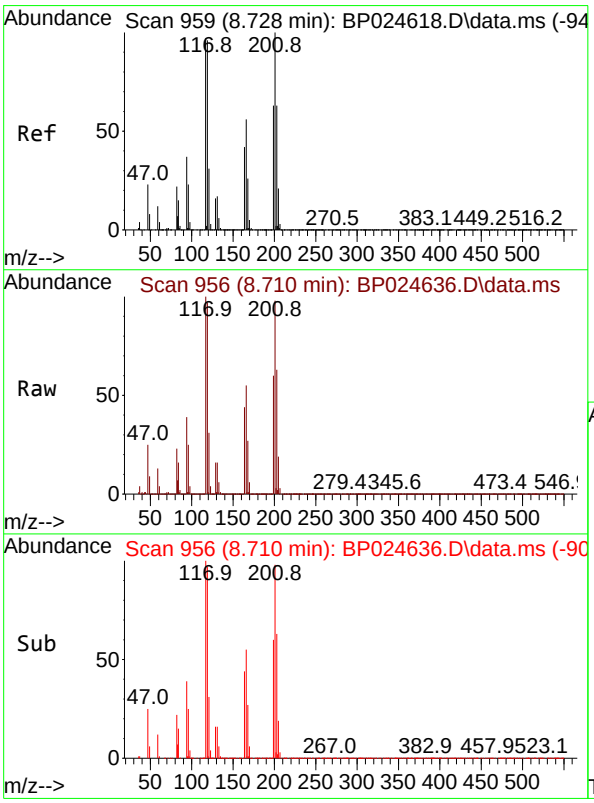
#17
2-Methylphenol
Concen: 45.567 ng
RT: 8.099 min Scan# 8
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:107 Resp: 329941

Ion	Ratio	Lower	Upper
107	100		
108	109.6	88.9	133.3
77	47.2	39.0	58.6
79	46.0	38.4	57.6

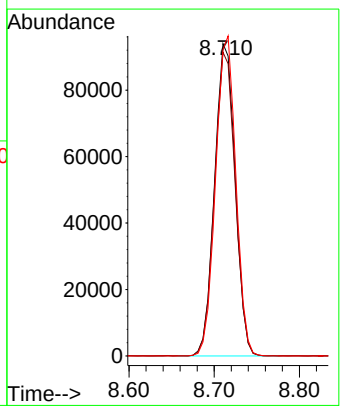


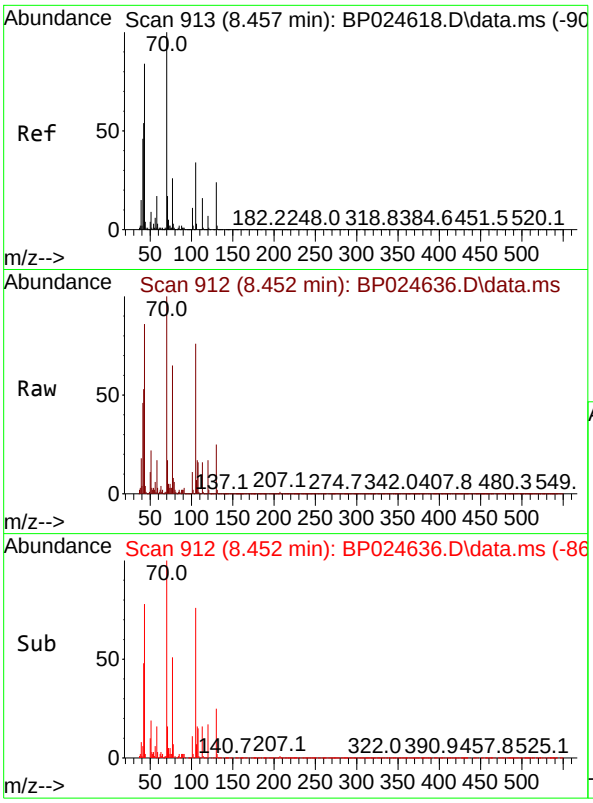


#18
Hexachloroethane
Concen: 40.894 ng
RT: 8.710 min Scan# 956
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:117 Resp: 157764

Ion	Ratio	Lower	Upper
117	100		
119	97.3	79.4	119.0
201	98.0	82.7	124.1



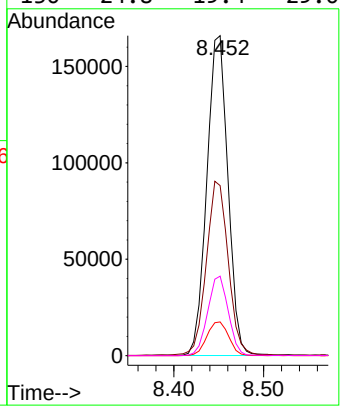


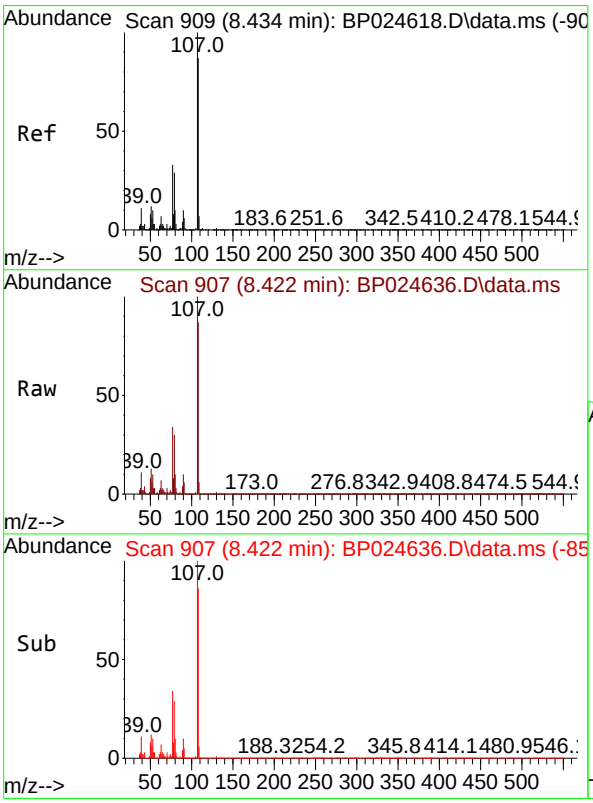
#19
n-Nitroso-di-n-propylamine
Concen: 40.039 ng
RT: 8.452 min Scan# 91
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 70 Resp: 270905

Ion	Ratio	Lower	Upper
70	100		
42	53.1	43.0	64.6
101	10.6	8.7	13.1
130	24.8	19.4	29.0

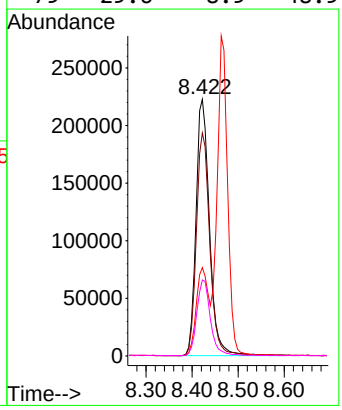


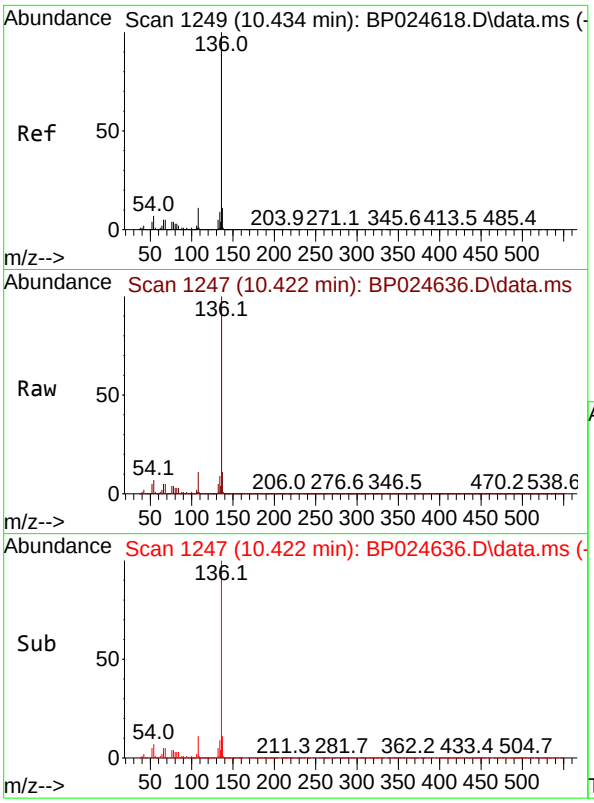


#20
3+4-Methylphenols
Concen: 45.848 ng
RT: 8.422 min Scan# 907
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:107 Resp: 451573

Ion	Ratio	Lower	Upper
107	100		
108	86.9	66.7	106.7
77	34.4	13.1	53.1
79	29.6	8.9	48.9



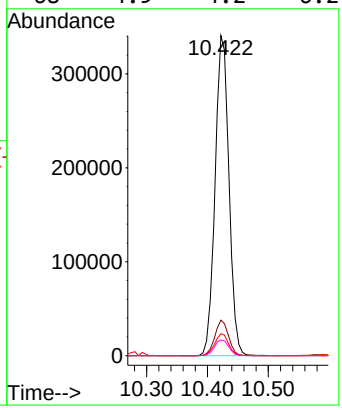


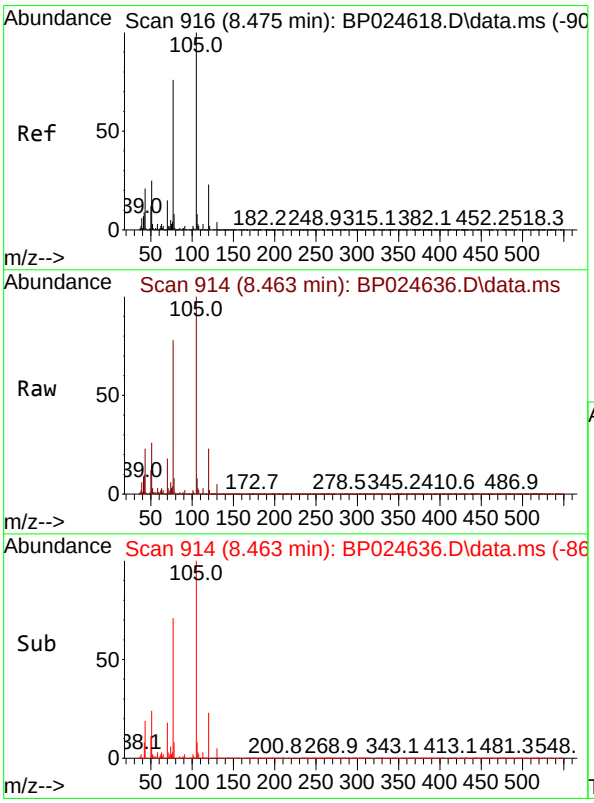
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:136 Resp: 537517

Ion	Ratio	Lower	Upper
136	100		
137	11.1	8.8	13.2
54	6.9	5.5	8.3
68	4.9	4.2	6.2

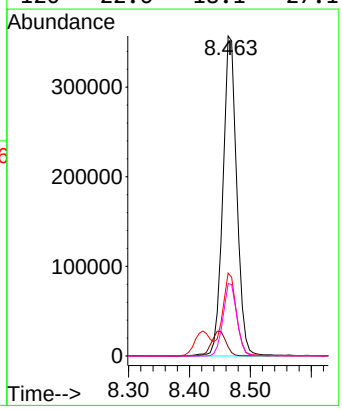


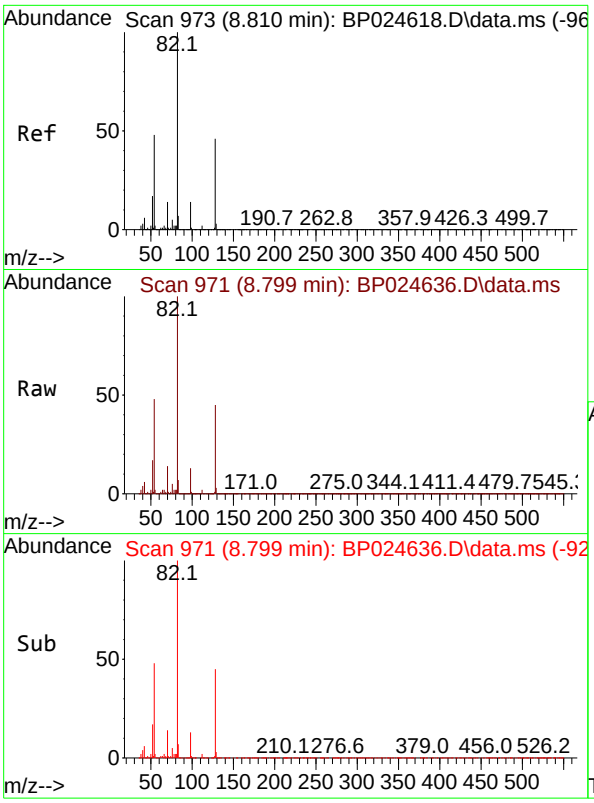


#22
Acetophenone
Concen: 42.273 ng
RT: 8.463 min Scan# 914
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:105 Resp: 567593

Ion	Ratio	Lower	Upper
105	100		
71	2.8	2.0	3.0
51	25.9	20.4	30.6
120	22.6	18.1	27.1



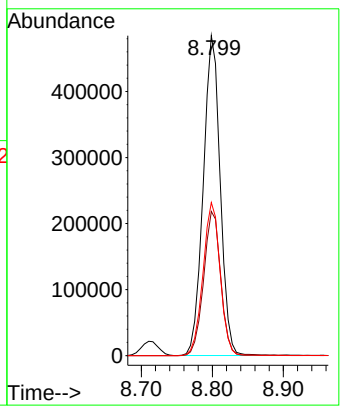


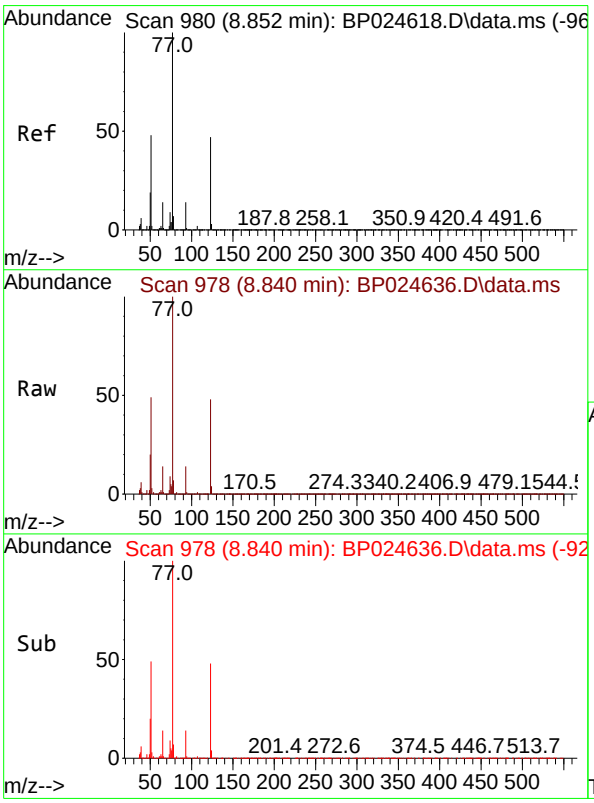
#23
Nitrobenzene-d5
Concen: 75.806 ng
RT: 8.799 min Scan# 9
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 82 Resp: 806449

Ion	Ratio	Lower	Upper
82	100		
128	45.0	37.0	55.4
54	47.8	38.7	58.1

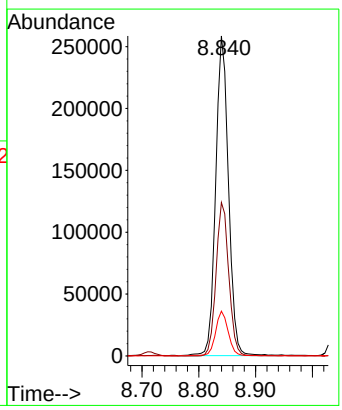


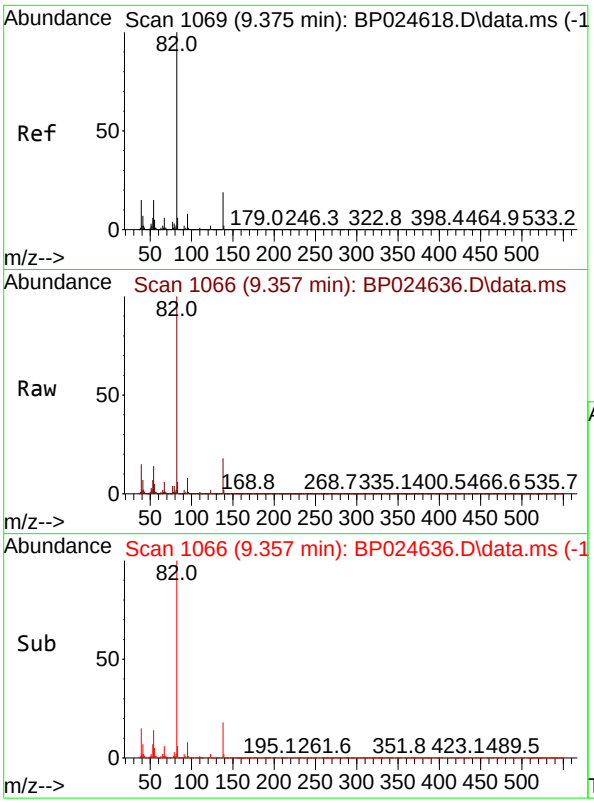


#24
Nitrobenzene
Concen: 43.197 ng
RT: 8.840 min Scan# 978
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 77 Resp: 404402

Ion	Ratio	Lower	Upper
77	100		
123	47.9	37.4	56.0
65	14.0	11.3	16.9



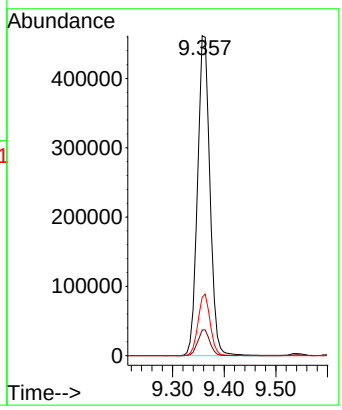


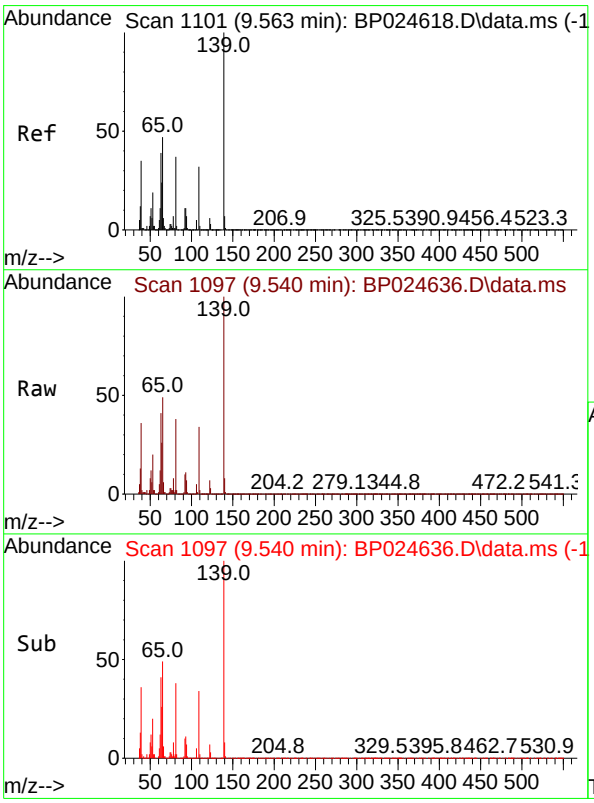
#25
Isophorone
Concen: 41.611 ng
RT: 9.357 min Scan# 1
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 82 Resp: 767868

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.3	9.5
138	18.3	15.3	22.9

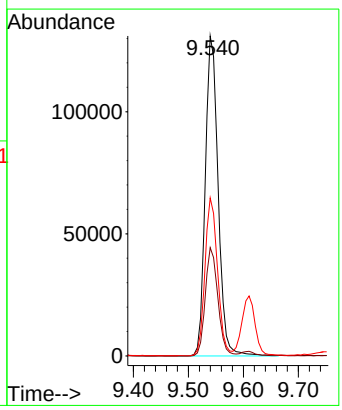


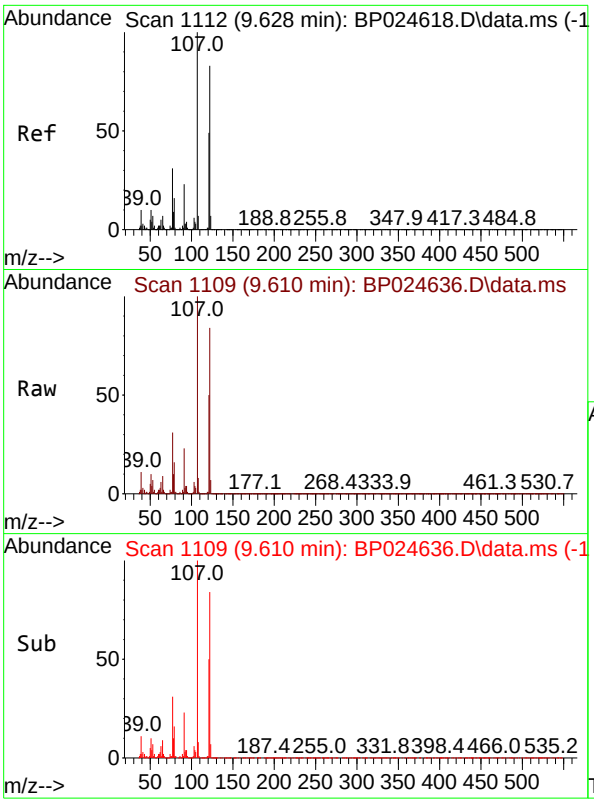


#26
2-Nitrophenol
Concen: 46.359 ng
RT: 9.540 min Scan# 1097
Delta R.T. -0.024 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:139 Resp: 212672

Ion	Ratio	Lower	Upper
139	100		
109	33.8	25.9	38.9
65	49.4	37.9	56.9



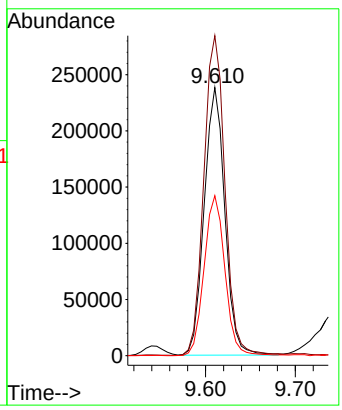


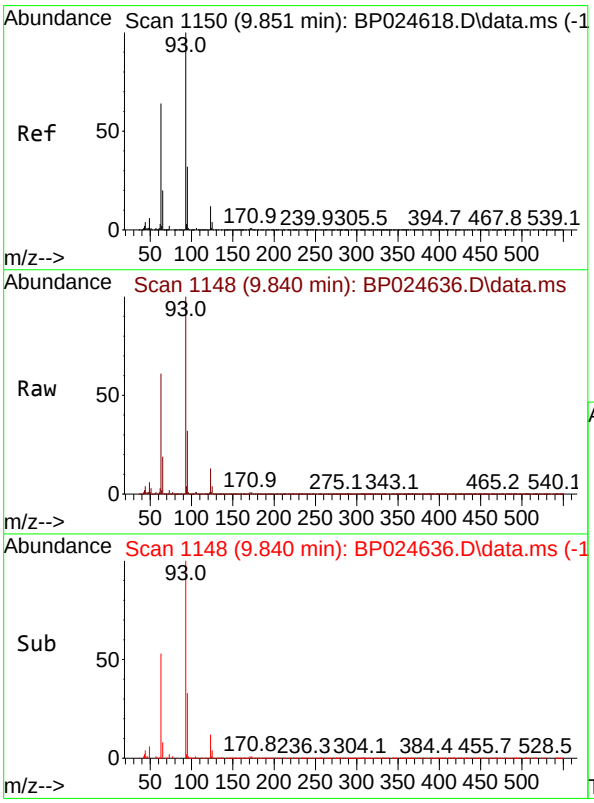
#27
2,4-Dimethylphenol
Concen: 47.020 ng
RT: 9.610 min Scan# 11
Delta R.T. -0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:122 Resp: 380304

Ion	Ratio	Lower	Upper
122	100		
107	119.3	96.2	144.2
121	59.7	47.6	71.4

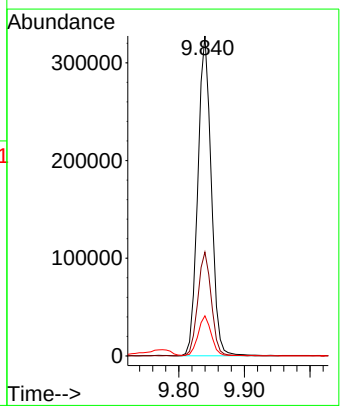


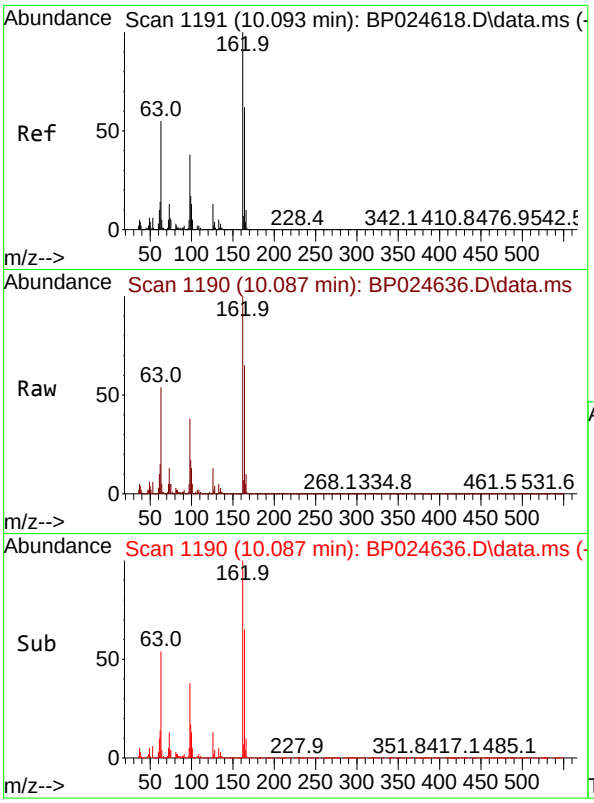


#28
bis(2-Chloroethoxy)methane
Concen: 42.382 ng
RT: 9.840 min Scan# 1148
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 93 Resp: 467255

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.5	38.3
123	12.5	9.7	14.5



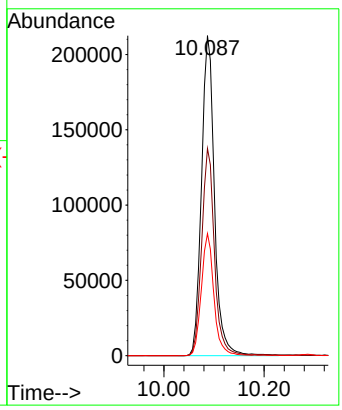


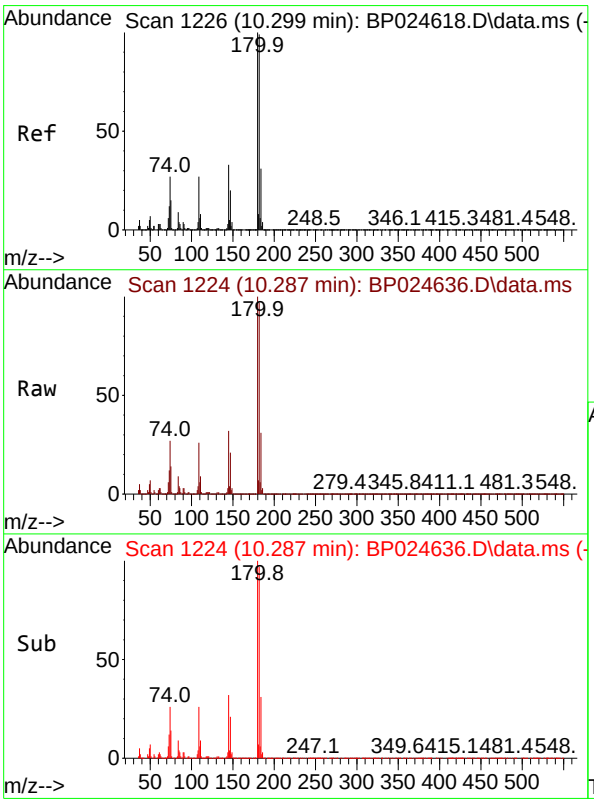
#29
2,4-Dichlorophenol
Concen: 48.756 ng
RT: 10.087 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:162 Resp: 382143

Ion	Ratio	Lower	Upper
162	100		
164	64.8	42.3	82.3
98	38.1	18.4	58.4

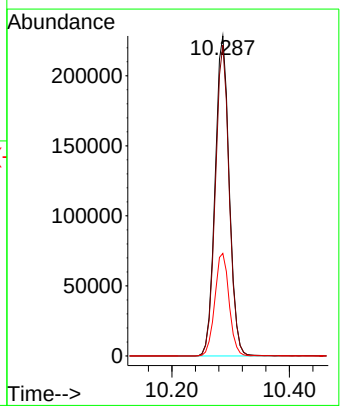


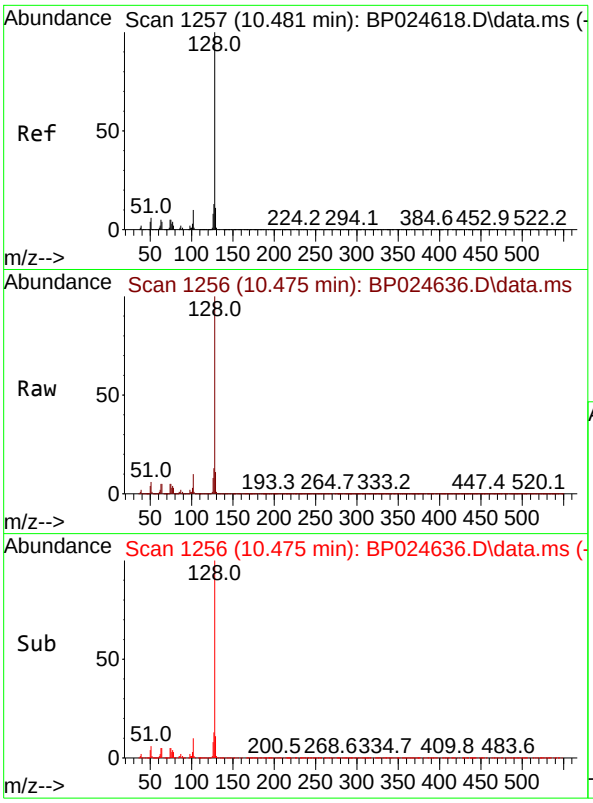


#30
1,2,4-Trichlorobenzene
Concen: 43.151 ng
RT: 10.287 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:180 Resp: 381129

Ion	Ratio	Lower	Upper
180	100		
182	97.1	79.0	118.4
145	32.1	26.6	39.8



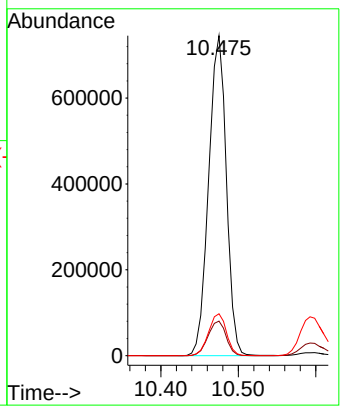


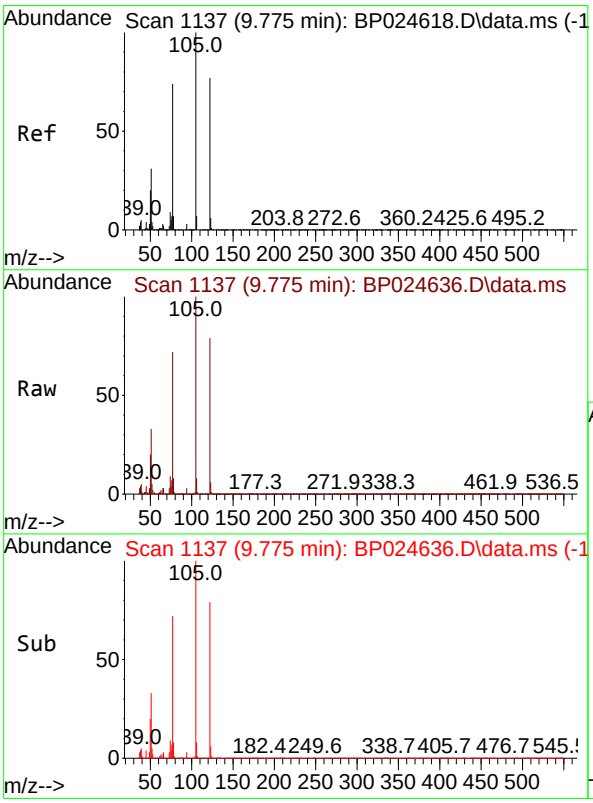
#31
Naphthalene
Concen: 42.353 ng
RT: 10.475 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:128 Resp: 1179733

Ion	Ratio	Lower	Upper
128	100		
129	10.8	8.8	13.2
127	13.1	10.7	16.1

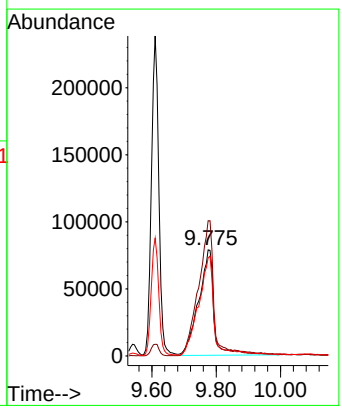


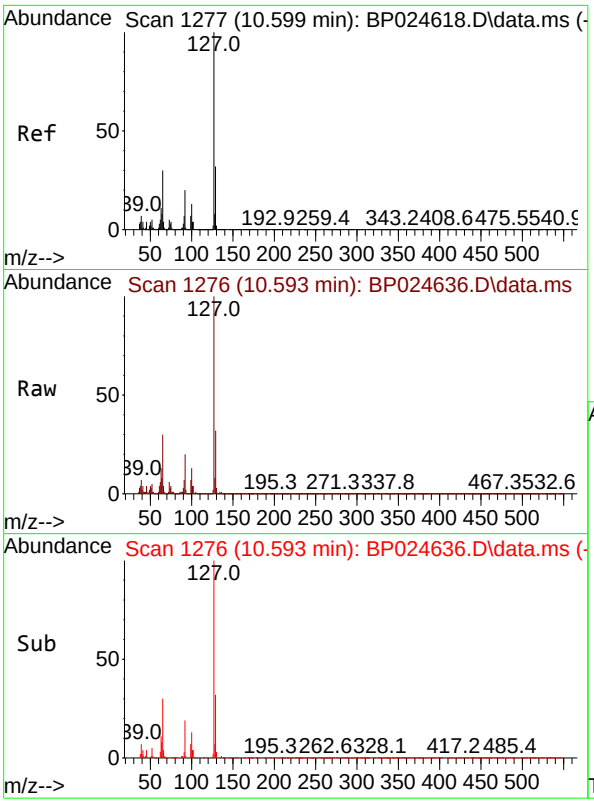


#32
Benzoic acid
Concen: 46.811 ng
RT: 9.775 min Scan# 1137
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:122 Resp: 262342

Ion	Ratio	Lower	Upper
122	100		
105	127.4	106.9	146.9
77	92.3	75.1	115.1



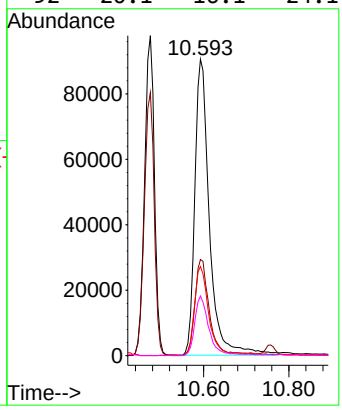


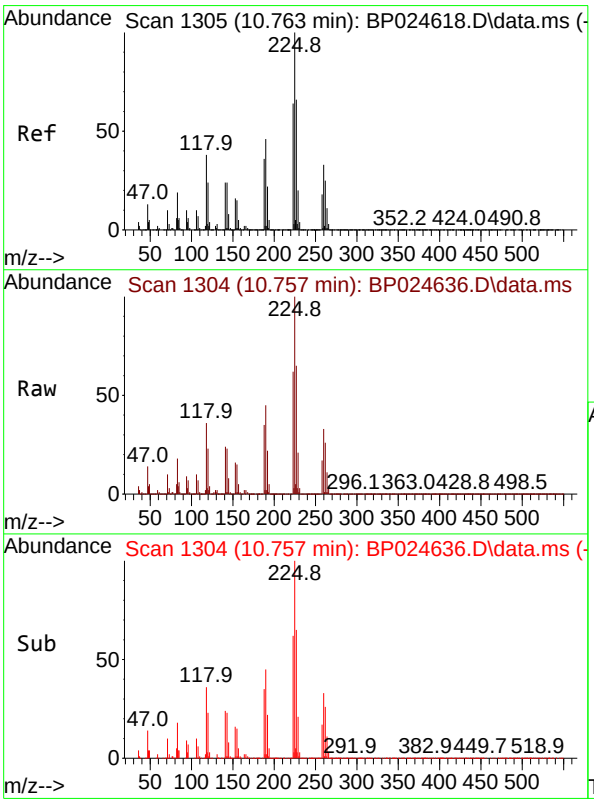
#33
4-Chloroaniline
Concen: 19.197 ng
RT: 10.593 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:127 Resp: 215778

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.8	38.6
65	30.0	23.9	35.9
92	20.1	16.1	24.1

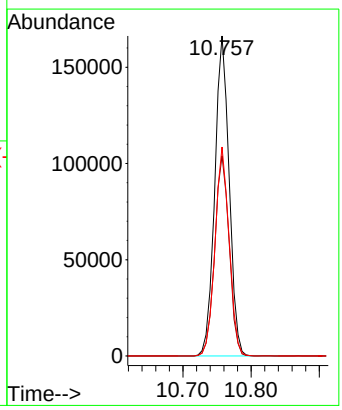


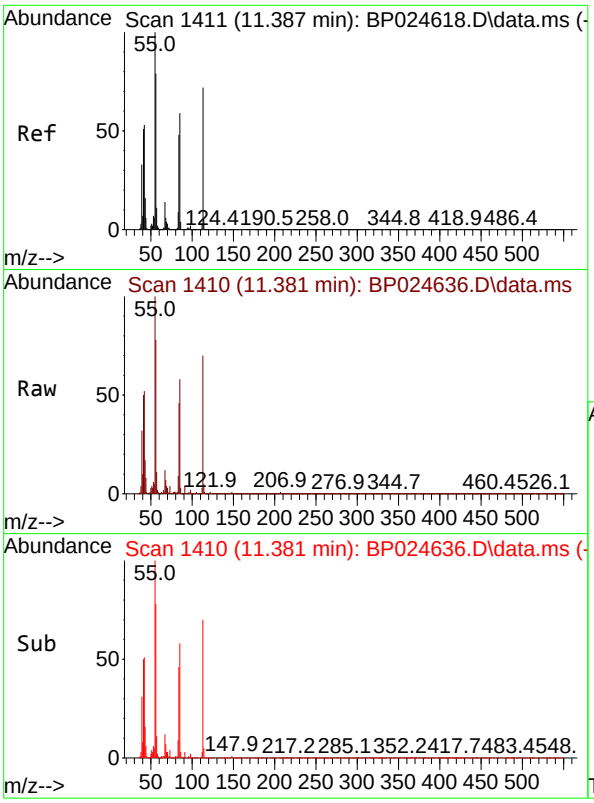


#34
Hexachlorobutadiene
Concen: 42.650 ng
RT: 10.757 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:225 Resp: 244032

Ion	Ratio	Lower	Upper
225	100		
223	62.5	51.0	76.6
227	65.3	53.1	79.7



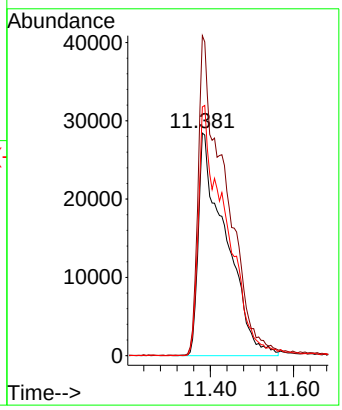


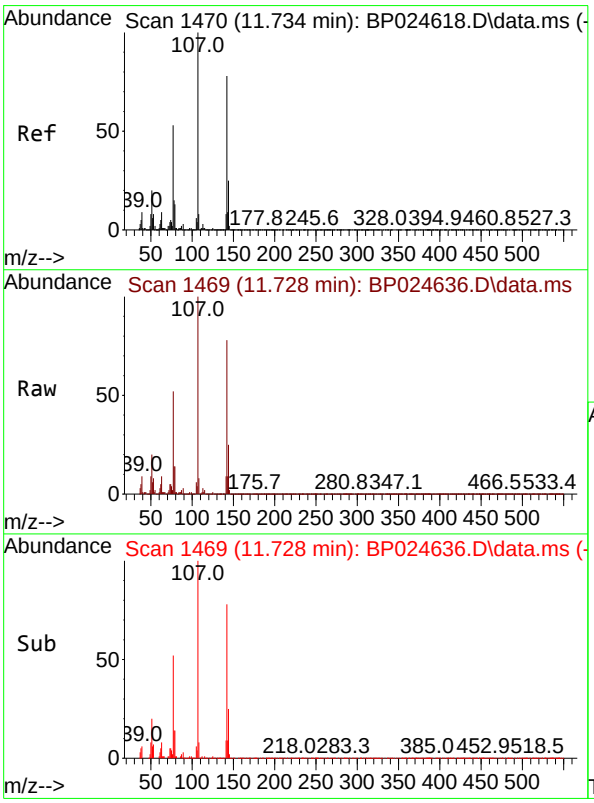
#35
Caprolactam
Concen: 45.423 ng
RT: 11.381 min Scan# 14
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:113 Resp: 128809

Ion	Ratio	Lower	Upper
113	100		
55	143.8	119.0	159.0
56	111.8	90.3	130.3

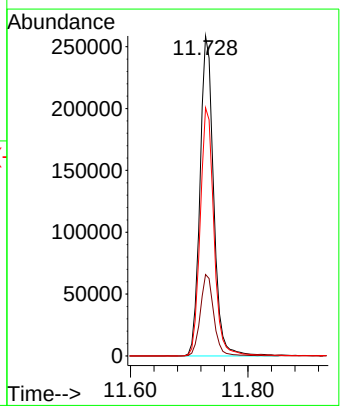


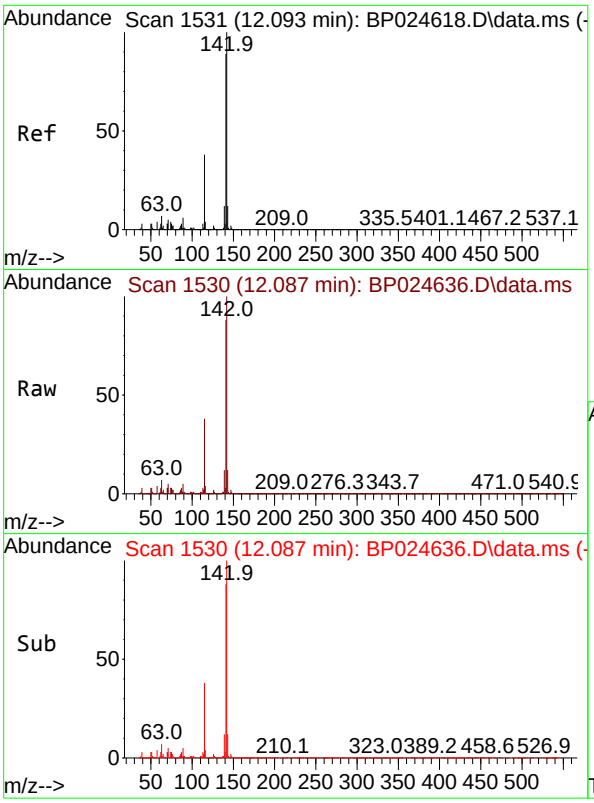


#36
4-Chloro-3-methylphenol
Concen: 43.596 ng
RT: 11.728 min Scan# 1469
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:107 Resp: 416701

Ion	Ratio	Lower	Upper
107	100		
144	25.5	20.1	30.1
142	77.5	62.1	93.1



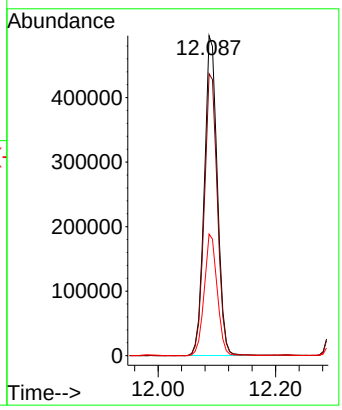


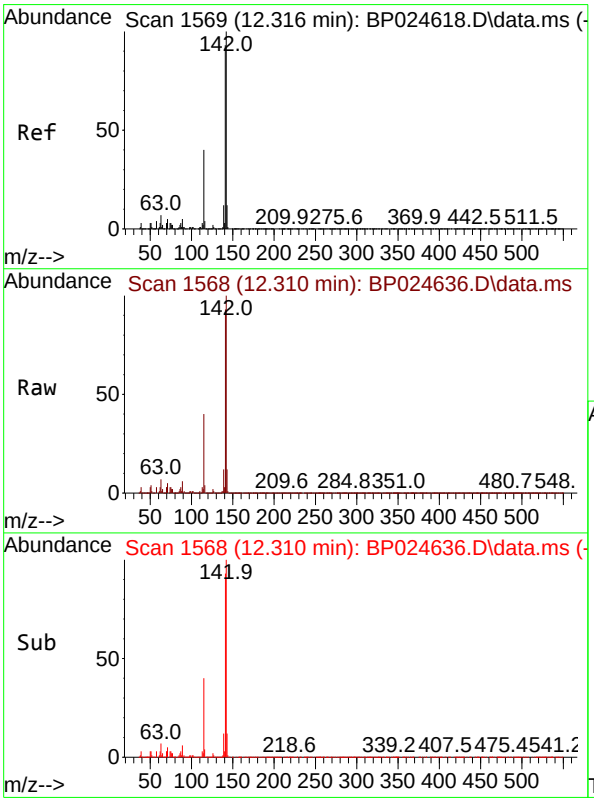
#37
2-Methylnaphthalene
Concen: 42.084 ng
RT: 12.087 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:142 Resp: 759040

Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.2	106.8
115	38.0	30.6	46.0

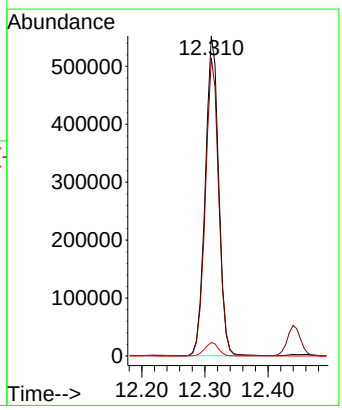


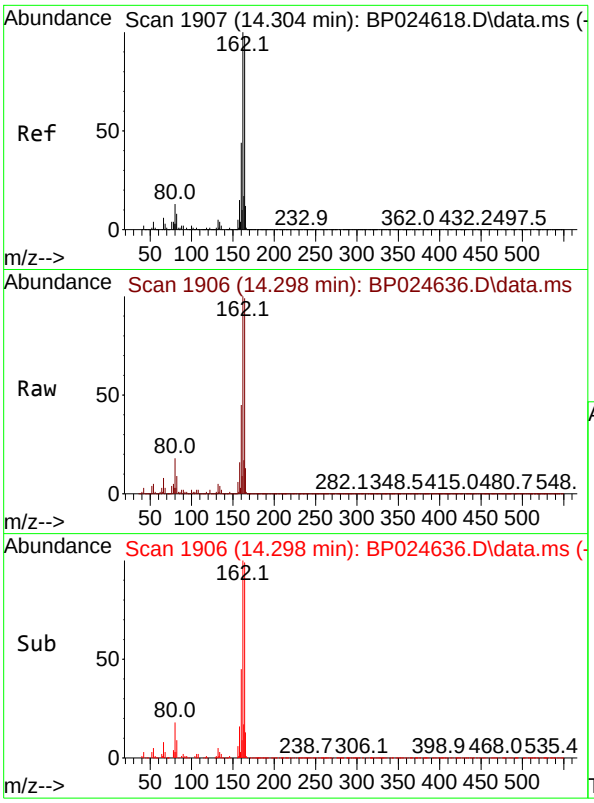


#38
1-Methylnaphthalene
Concen: 42.174 ng
RT: 12.310 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:142 Resp: 813878

Ion	Ratio	Lower	Upper
142	100		
141	93.1	74.7	112.1
116	4.2	3.4	5.2



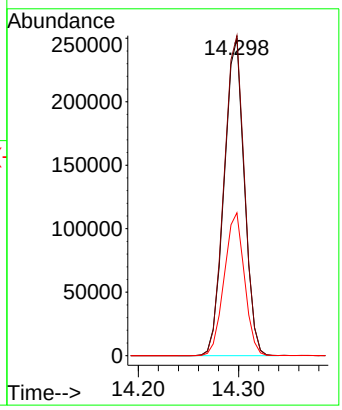


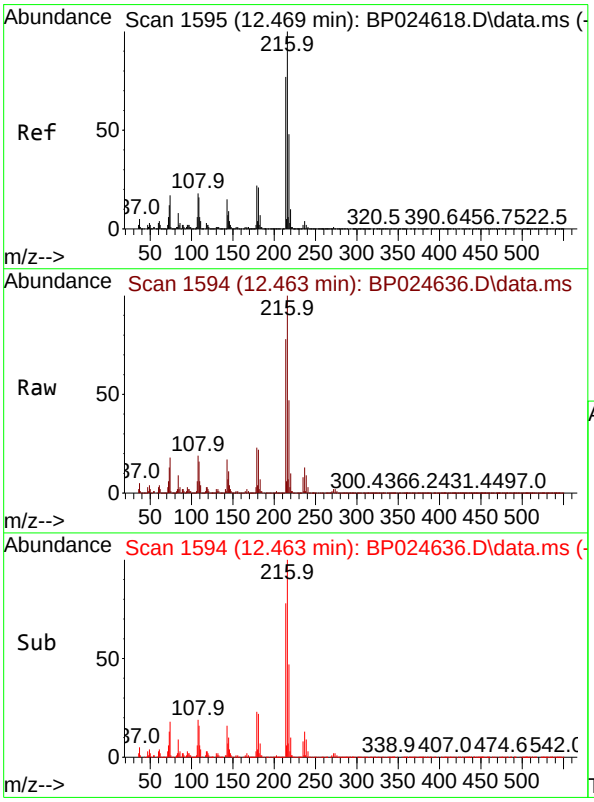
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:164 Resp: 347277

Ion	Ratio	Lower	Upper
164	100		
162	100.8	81.8	122.6
160	45.0	36.3	54.5

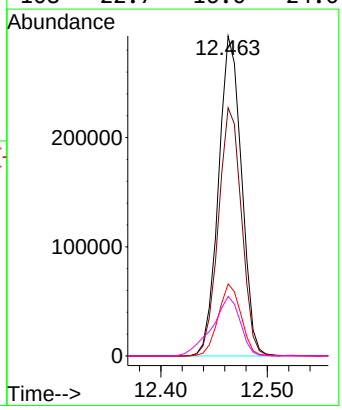


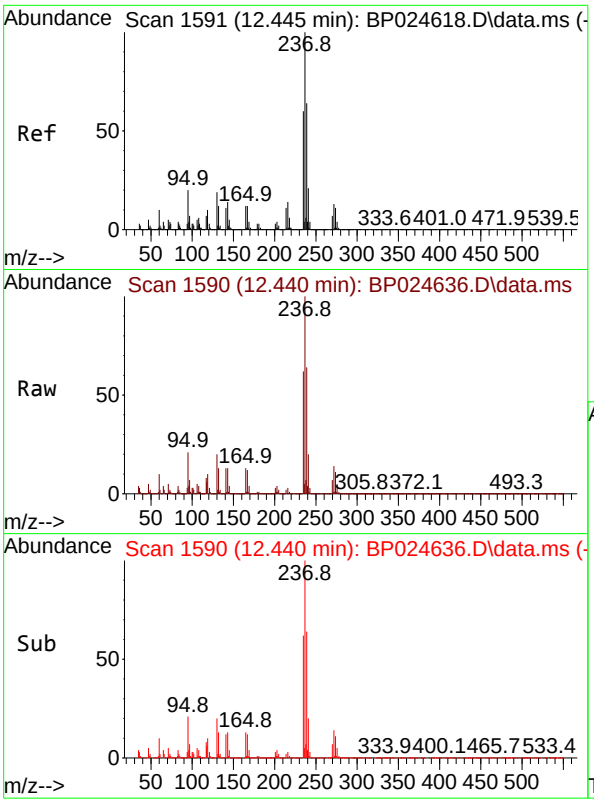


#40
1,2,4,5-Tetrachlorobenzene
Concen: 43.595 ng
RT: 12.463 min Scan# 1594
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:216 Resp: 439636

Ion	Ratio	Lower	Upper
216	100		
214	78.2	62.3	93.5
179	22.3	17.7	26.5
108	22.7	16.0	24.0



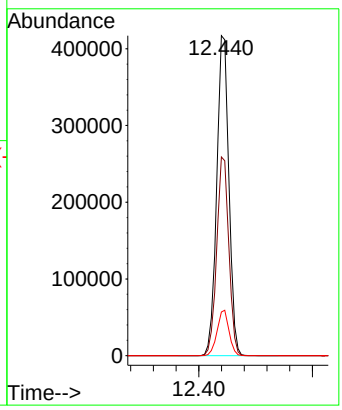


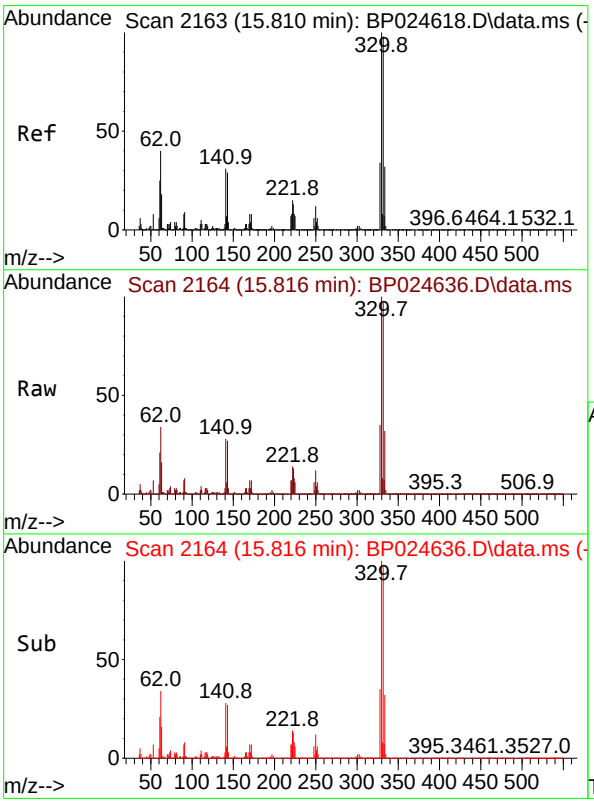
#41
Hexachlorocyclopentadiene
Concen: 101.081 ng
RT: 12.440 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:237 Resp: 618099

Ion	Ratio	Lower	Upper
237	100		
235	62.1	39.9	79.9
272	13.6	0.0	33.2

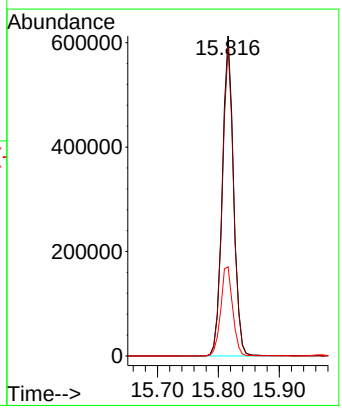


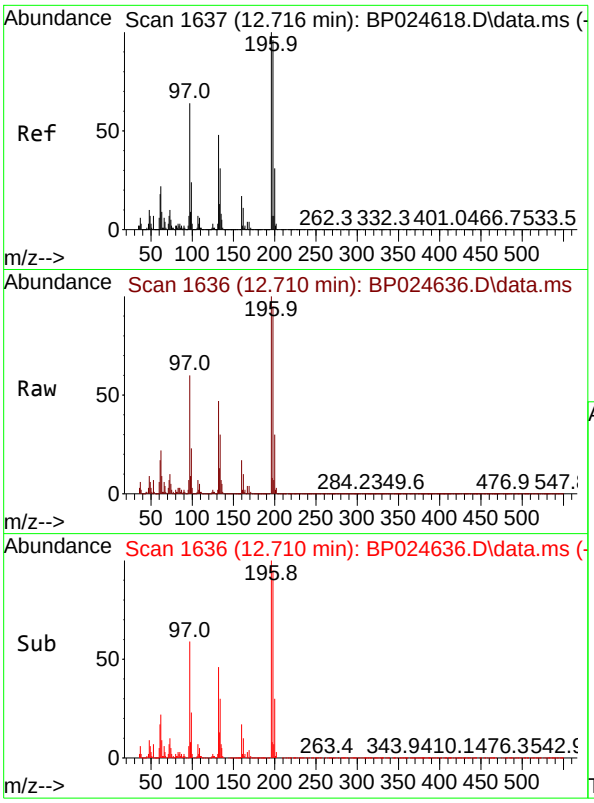


#42
2,4,6-Tribromophenol
Concen: 134.019 ng
RT: 15.816 min Scan# 2164
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:330 Resp: 789015

Ion	Ratio	Lower	Upper
330	100		
332	96.4	78.2	117.4
141	29.5	24.3	36.5



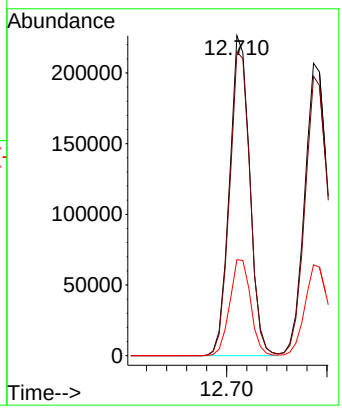


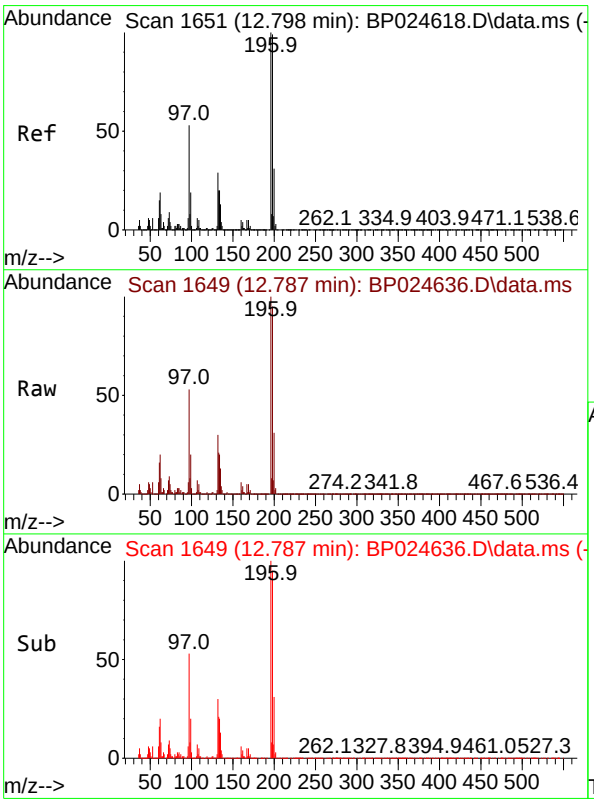
#43
2,4,6-Trichlorophenol
Concen: 48.539 ng
RT: 12.710 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:196 Resp: 317048

Ion	Ratio	Lower	Upper
196	100		
198	95.0	76.9	115.3
200	30.0	25.2	37.8

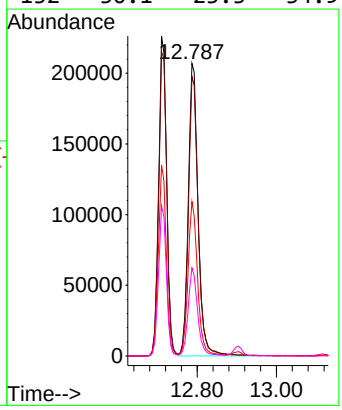


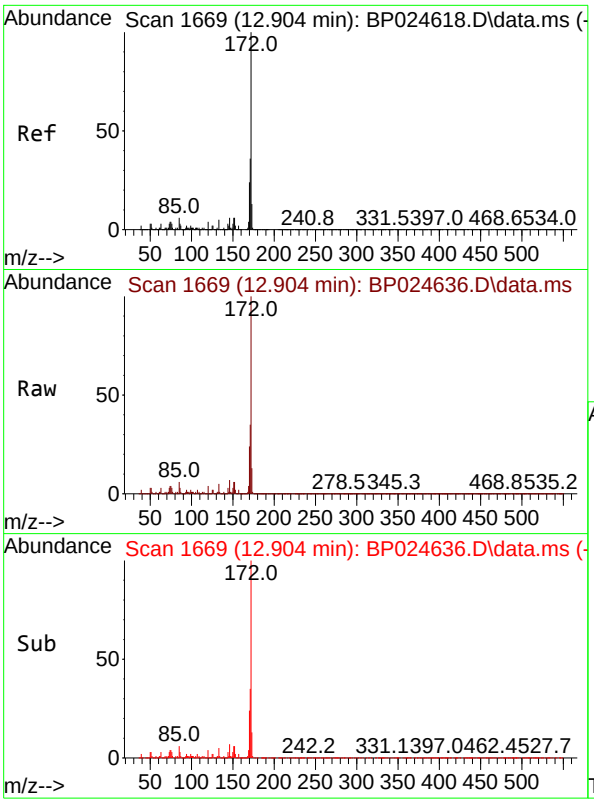


#44
2,4,5-Trichlorophenol
Concen: 48.883 ng
RT: 12.787 min Scan# 1649
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:196 Resp: 355418

Ion	Ratio	Lower	Upper
196	100		
198	95.5	79.2	118.8
97	52.7	42.3	63.5
132	30.1	23.3	34.9



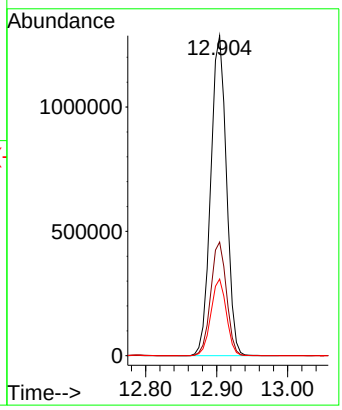


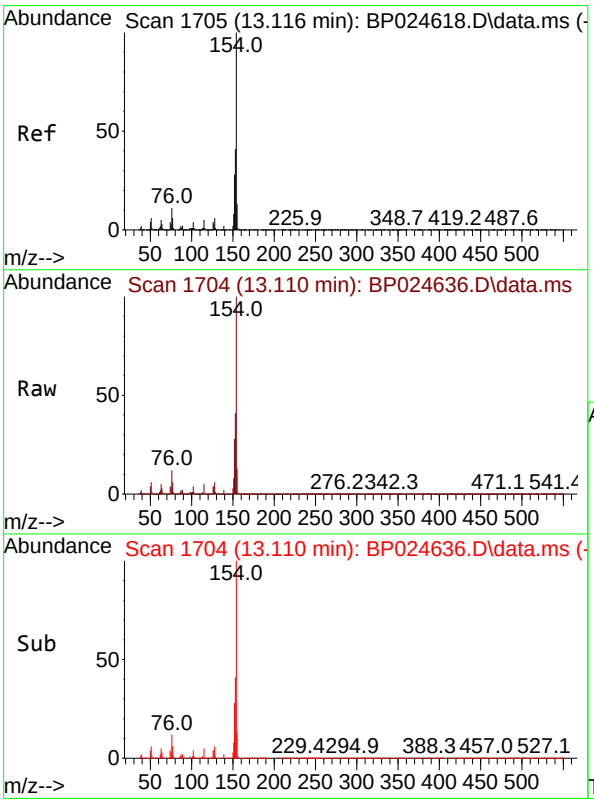
#45
2-Fluorobiphenyl
Concen: 74.470 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:172 Resp: 1973979

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.8	43.2
170	23.9	18.8	28.2

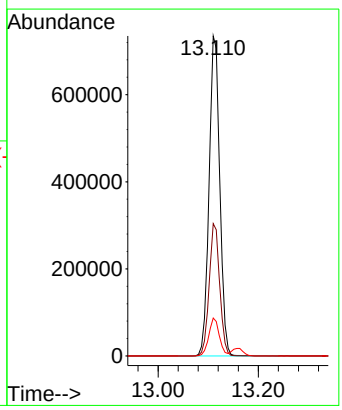


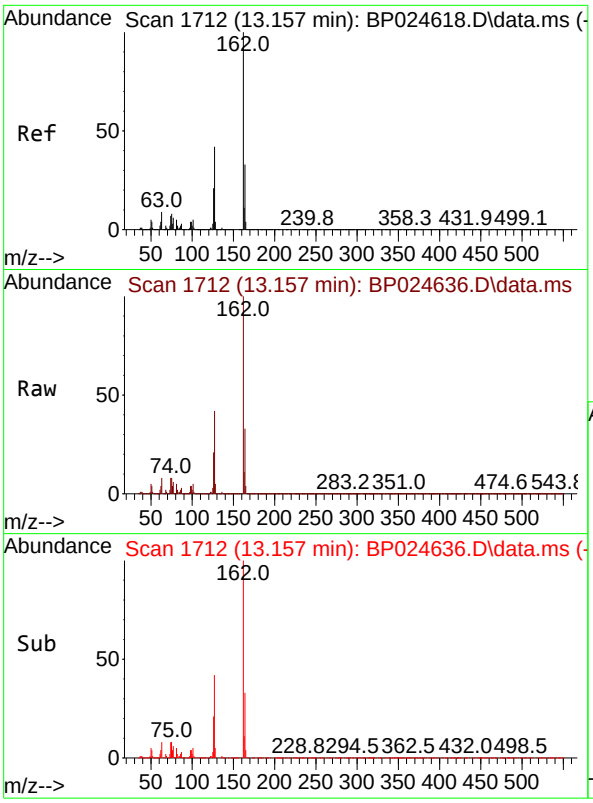


#46
1,1'-Biphenyl
Concen: 42.370 ng
RT: 13.110 min Scan# 1704
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:154 Resp: 1087547

Ion	Ratio	Lower	Upper
154	100		
153	41.4	21.0	61.0
76	11.8	0.0	31.5



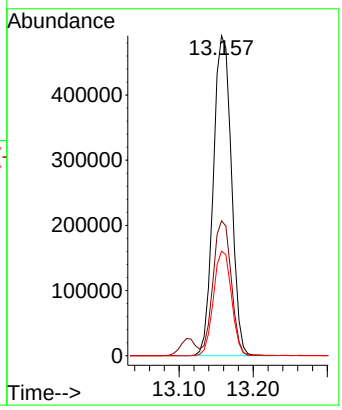


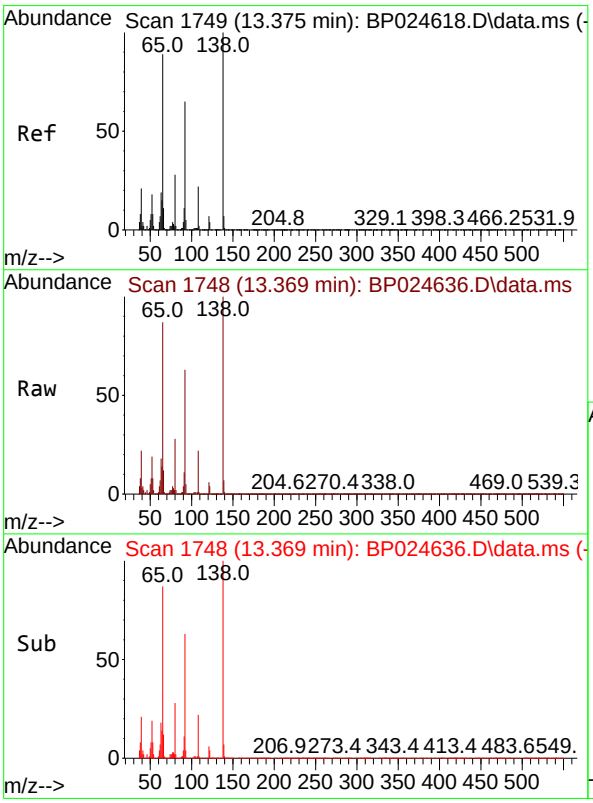
#47
2-Chloronaphthalene
Concen: 42.452 ng
RT: 13.157 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:162 Resp: 830827

Ion	Ratio	Lower	Upper
162	100		
127	42.2	33.8	50.6
164	32.6	26.0	39.0

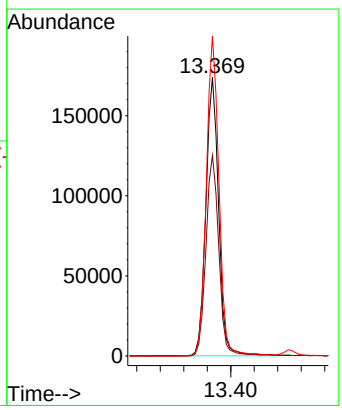


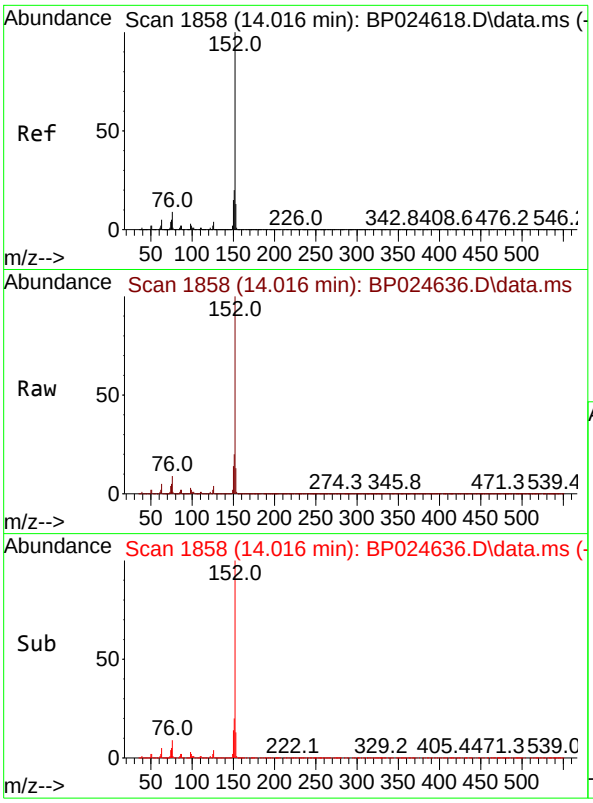


#48
2-Nitroaniline
Concen: 45.161 ng
RT: 13.369 min Scan# 1748
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion: 65 Resp: 261668

Ion	Ratio	Lower	Upper
65	100		
92	72.1	58.7	88.1
138	114.9	90.2	135.2



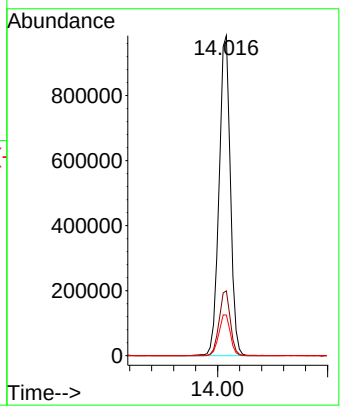


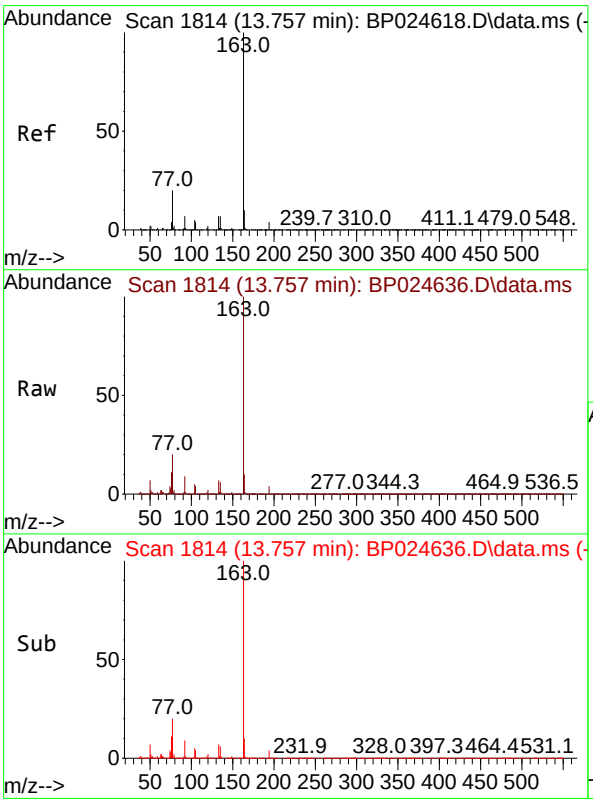
#49
Acenaphthylene
Concen: 42.731 ng
RT: 14.016 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:152 Resp: 1399482

Ion	Ratio	Lower	Upper
152	100		
151	20.2	16.2	24.4
153	12.7	10.2	15.4

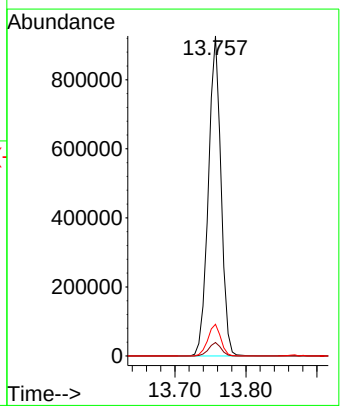


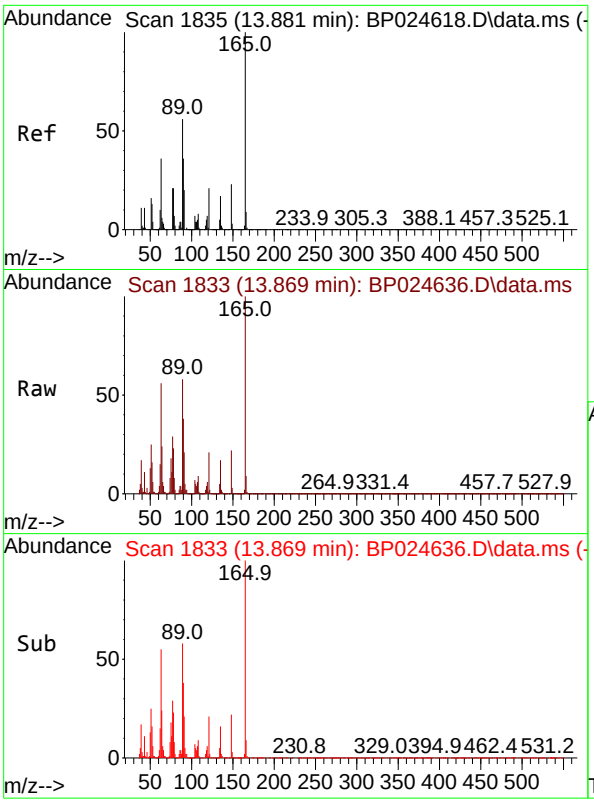


#50
Dimethylphthalate
Concen: 43.156 ng
RT: 13.757 min Scan# 1814
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:163 Resp: 1142335

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.4	5.0
164	9.9	8.1	12.1



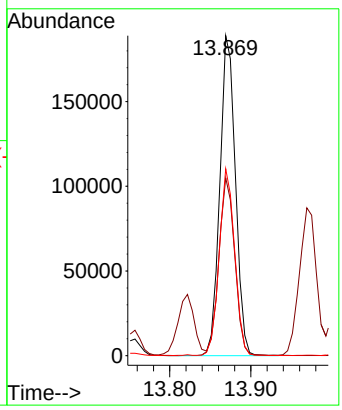


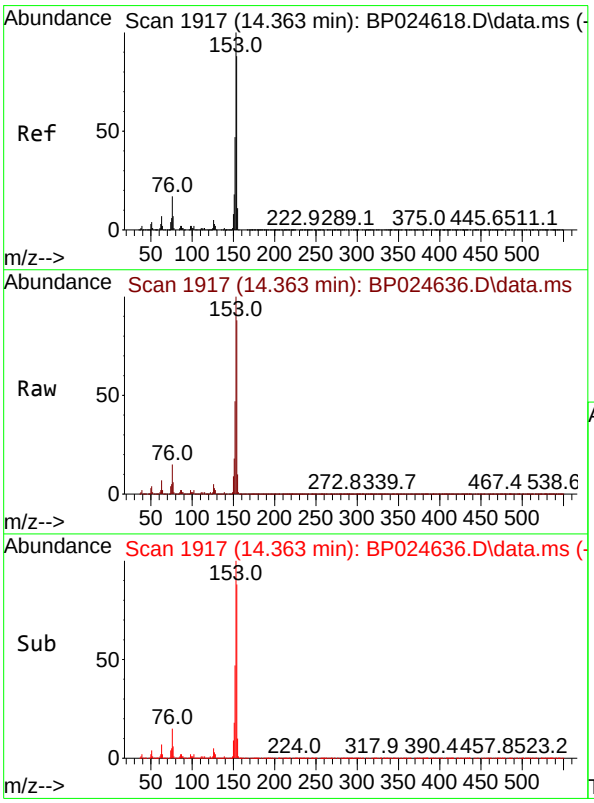
#51
2,6-Dinitrotoluene
Concen: 45.211 ng
RT: 13.869 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:165 Resp: 252742

Ion	Ratio	Lower	Upper
165	100		
63	55.6	42.4	63.6
89	58.4	44.8	67.2

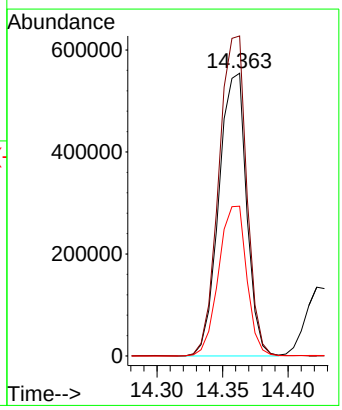


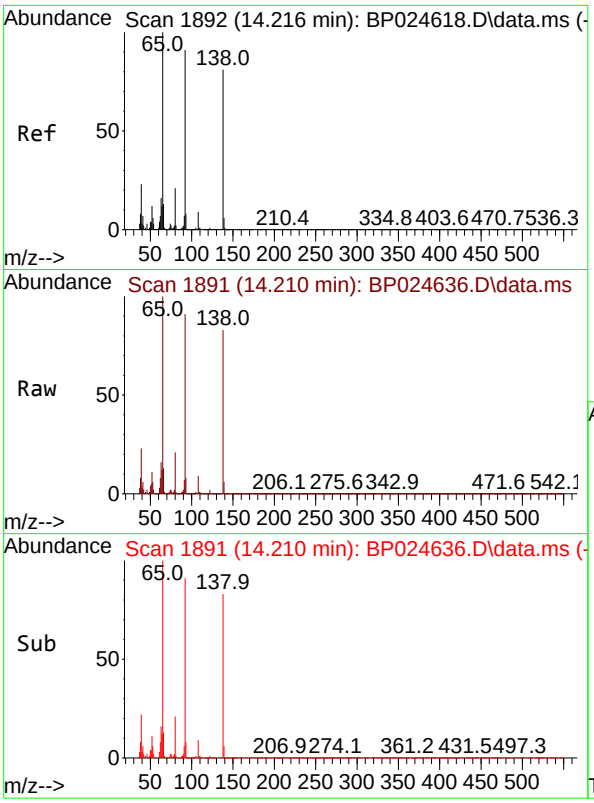


#52
Acenaphthene
Concen: 43.217 ng
RT: 14.363 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:154 Resp: 813698

Ion	Ratio	Lower	Upper
154	100		
153	113.2	91.0	136.4
152	53.0	42.9	64.3



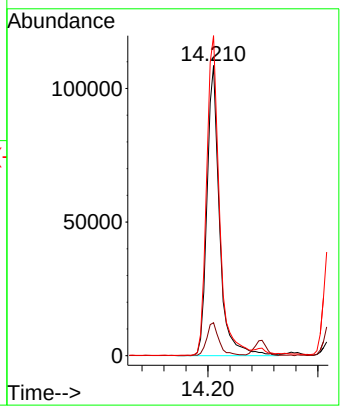


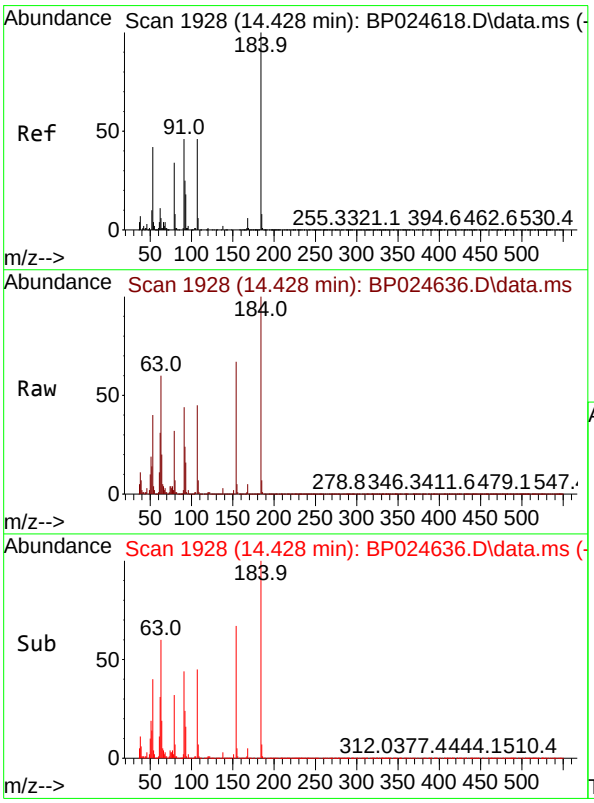
#53
3-Nitroaniline
Concen: 30.018 ng
RT: 14.210 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:138 Resp: 171345

Ion	Ratio	Lower	Upper
138	100		
108	11.3	9.0	13.4
92	110.3	90.1	135.1

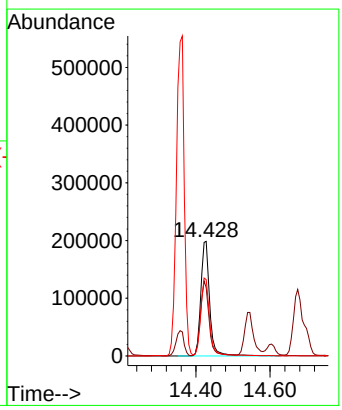


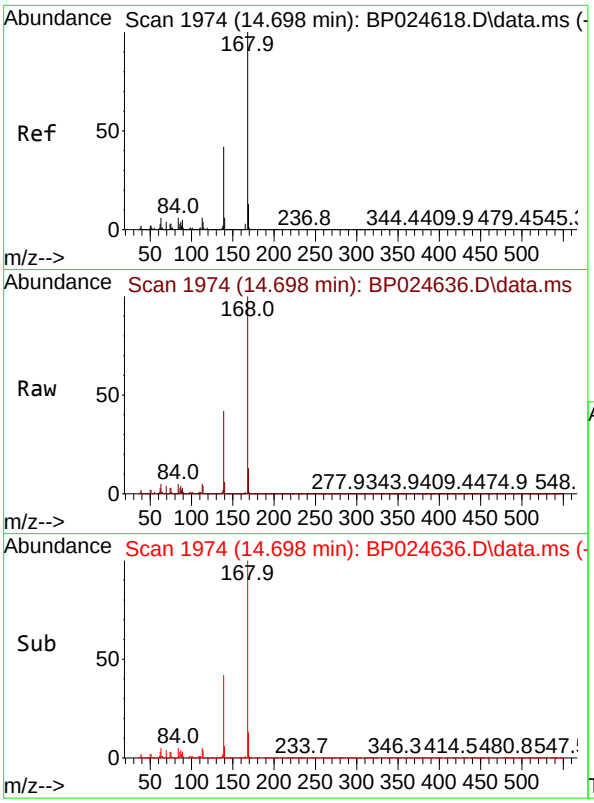


#54
2,4-Dinitrophenol
Concen: 91.929 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:184 Resp: 327717

Ion	Ratio	Lower	Upper
184	100		
63	59.6	51.3	76.9
154	66.6	53.5	80.3



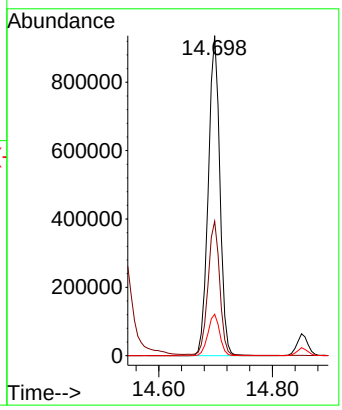


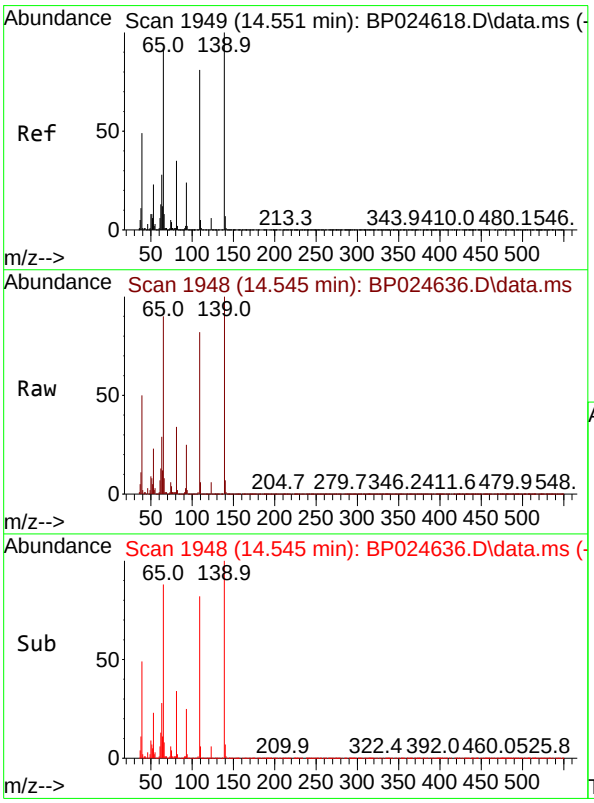
#55
Dibenzofuran
Concen: 43.757 ng
RT: 14.698 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:168 Resp: 1314124

Ion	Ratio	Lower	Upper
168	100		
139	42.0	34.2	51.4
169	12.9	10.8	16.2

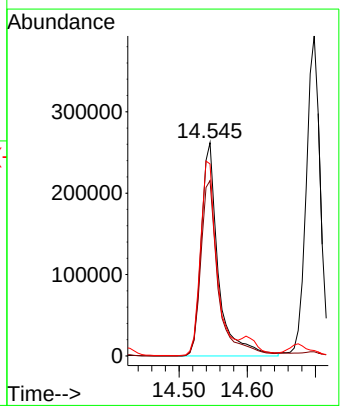


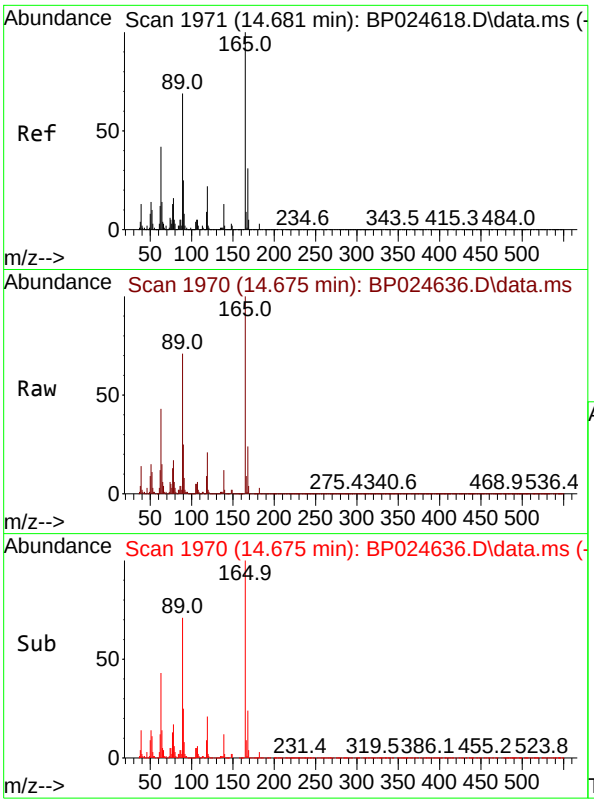


#56
4-Nitrophenol
Concen: 91.385 ng
RT: 14.545 min Scan# 1948
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:139 Resp: 454745

Ion	Ratio	Lower	Upper
139	100		
109	82.3	61.4	101.4
65	90.1	72.2	112.2



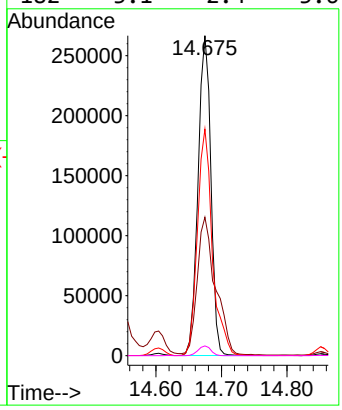


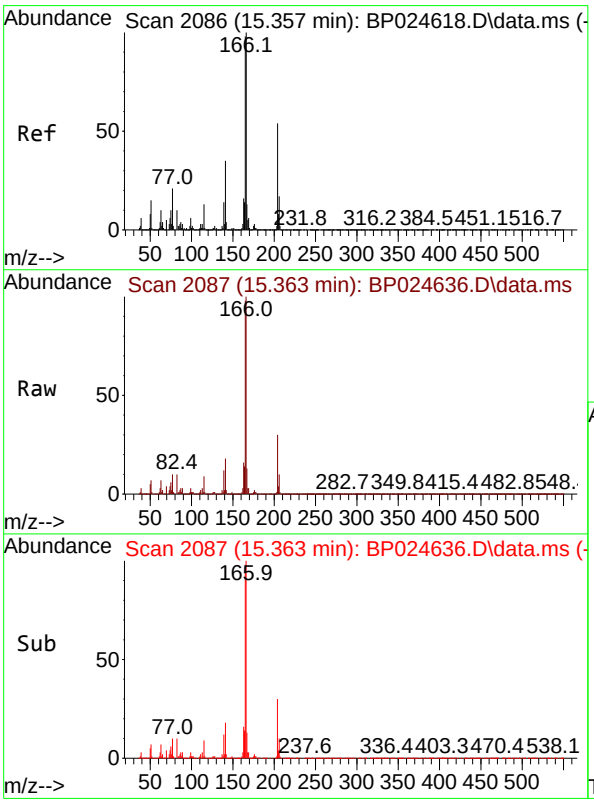
#57
2,4-Dinitrotoluene
Concen: 46.266 ng
RT: 14.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:165 Resp: 364632

Ion	Ratio	Lower	Upper
165	100		
63	43.3	33.8	50.6
89	70.8	55.6	83.4
182	3.1	2.4	3.6

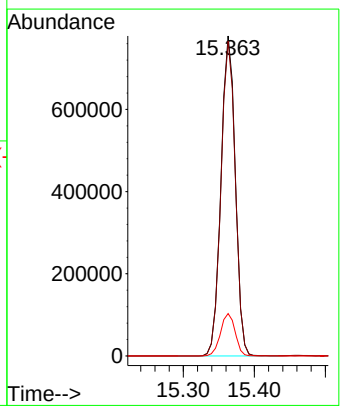


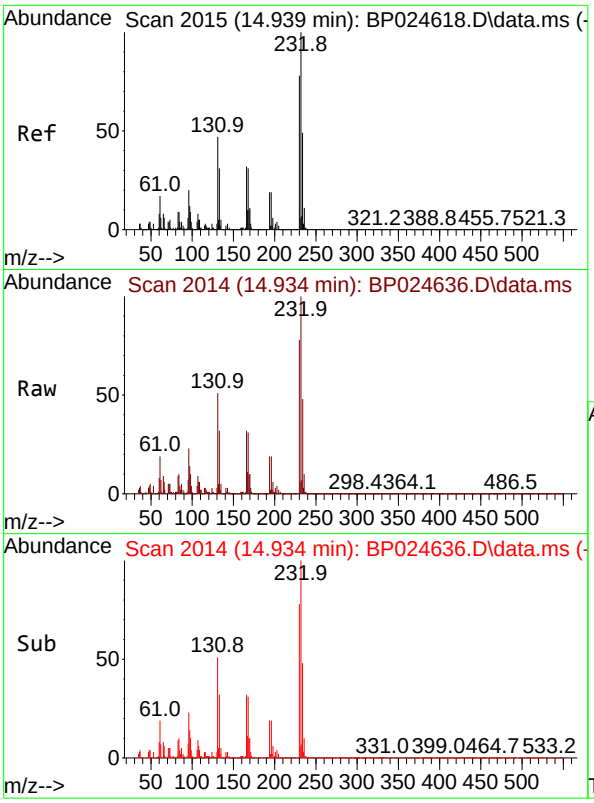


#58
Fluorene
Concen: 44.389 ng
RT: 15.363 min Scan# 2087
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:166 Resp: 1086996

Ion	Ratio	Lower	Upper
166	100		
165	98.4	78.5	117.7
167	13.3	10.7	16.1



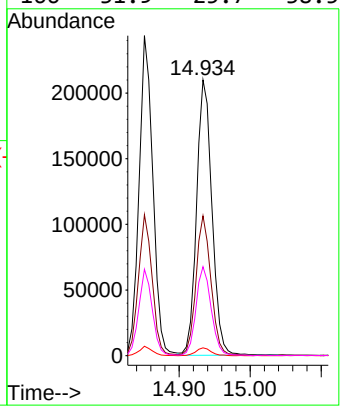


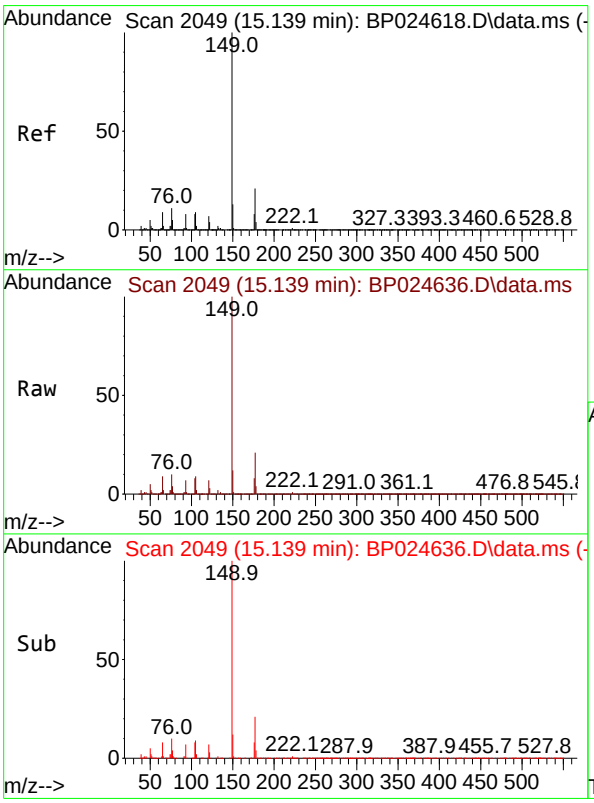
#59
2,3,4,6-Tetrachlorophenol
Concen: 46.974 ng
RT: 14.934 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:232 Resp: 316831

Ion	Ratio	Lower	Upper
232	100		
131	49.2	39.5	59.3
130	2.8	2.2	3.4
166	31.9	25.7	38.5

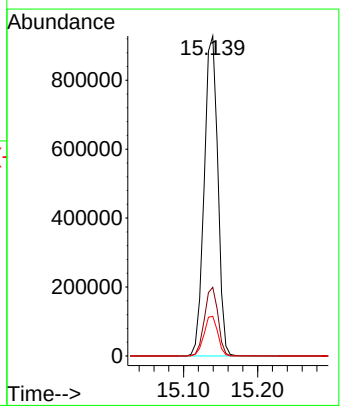


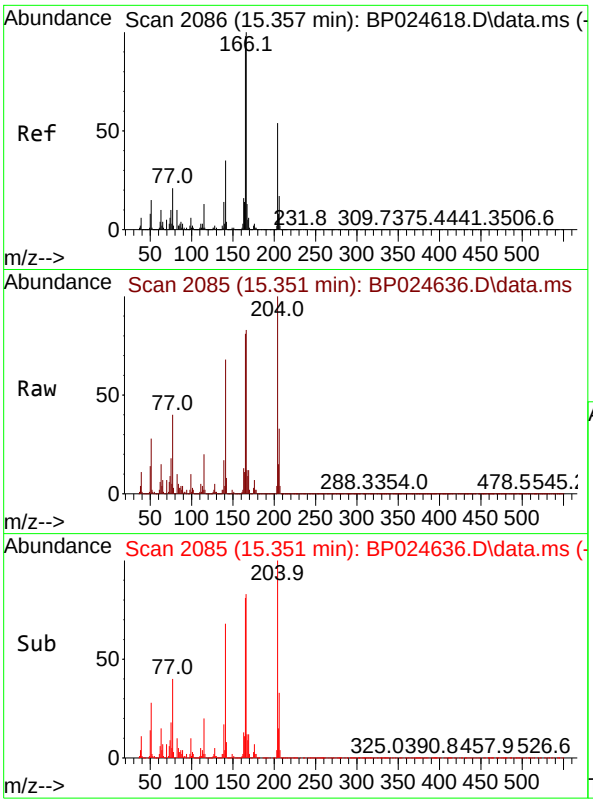


#60
Diethylphthalate
Concen: 44.273 ng
RT: 15.139 min Scan# 2049
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:149 Resp: 1184435

Ion	Ratio	Lower	Upper
149	100		
177	21.5	16.7	25.1
150	12.4	10.2	15.2



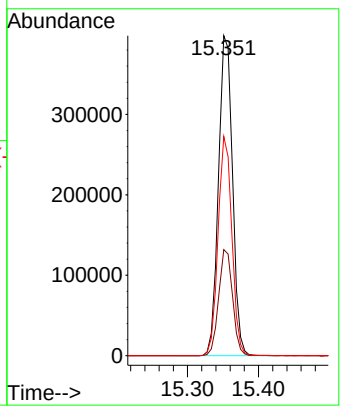


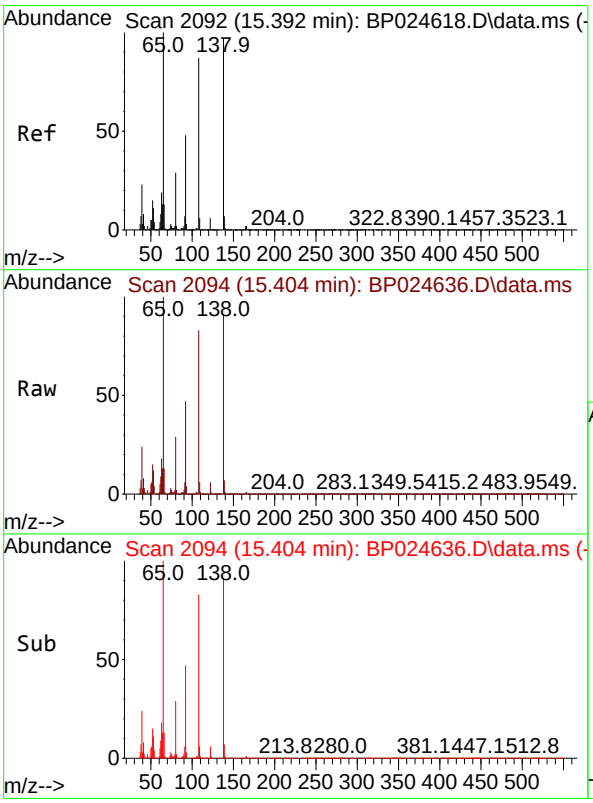
#61
4-Chlorophenyl-phenylether
Concen: 44.463 ng
RT: 15.351 min Scan# 2
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:204 Resp: 542996

Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.0	39.0
141	68.5	52.9	79.3

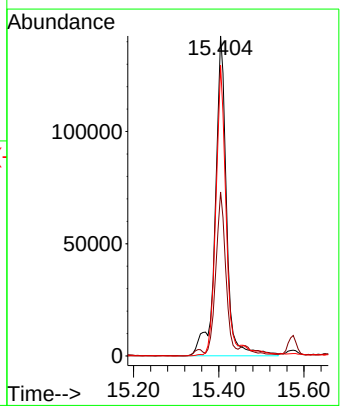


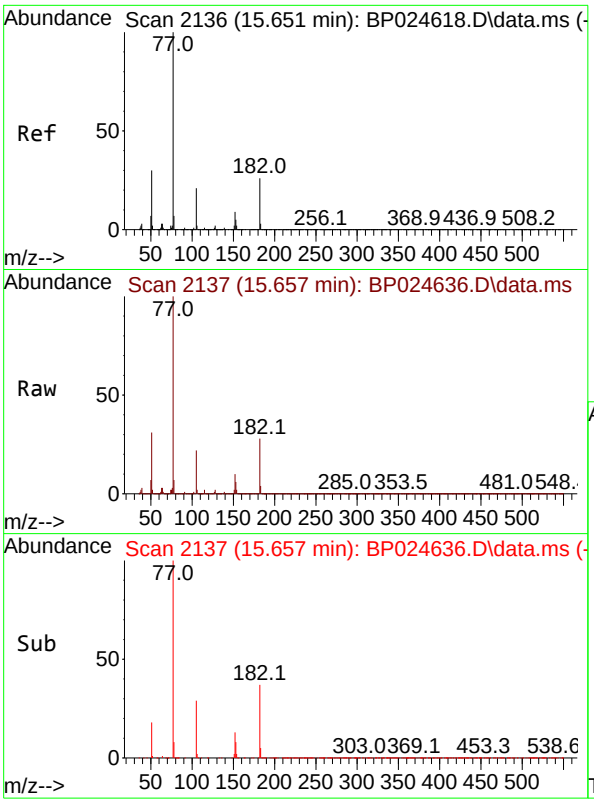


#62
4-Nitroaniline
Concen: 47.641 ng
RT: 15.404 min Scan# 2094
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:138 Resp: 262574

Ion	Ratio	Lower	Upper
138	100		
92	51.2	29.2	69.2
108	90.8	69.0	109.0



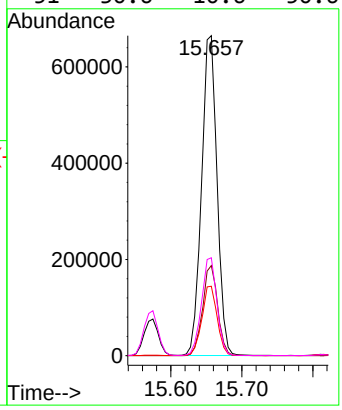


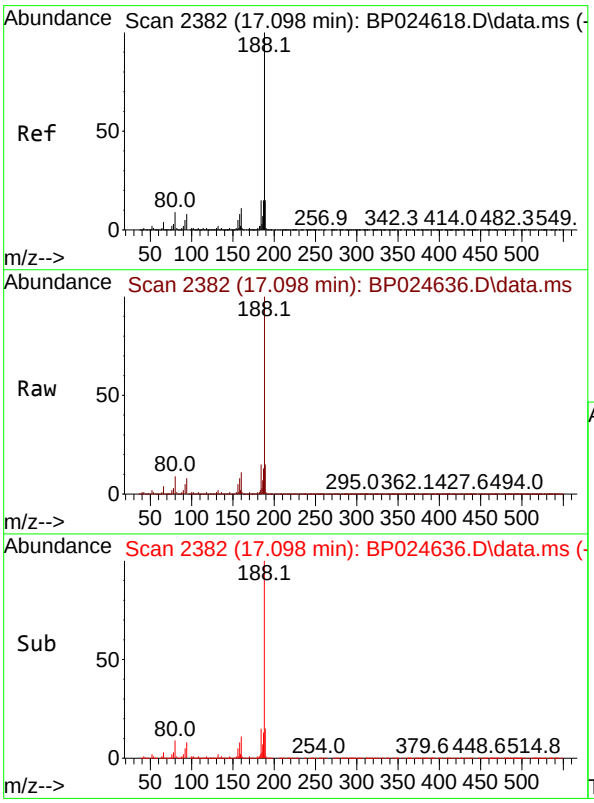
#63
Azobenzene
Concen: 44.109 ng
RT: 15.657 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion: 77 Resp: 1009501

Ion	Ratio	Lower	Upper
77	100		
182	28.1	5.7	45.7
105	21.7	1.3	41.3
51	30.6	10.6	50.6

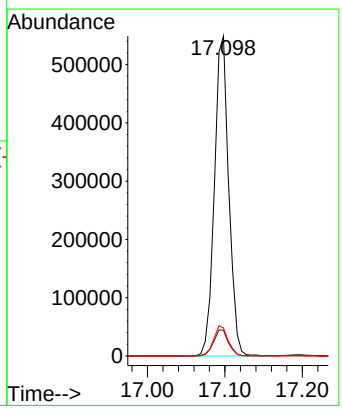


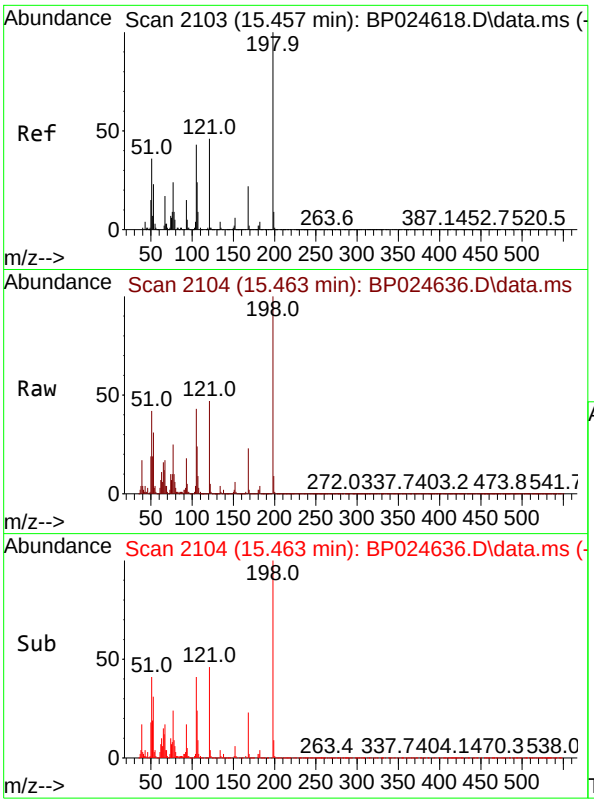


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.098 min Scan# 2382
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:188 Resp: 706031

Ion	Ratio	Lower	Upper
188	100		
94	8.1	6.5	9.7
80	8.7	7.3	10.9



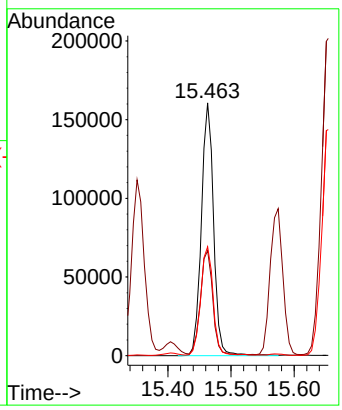


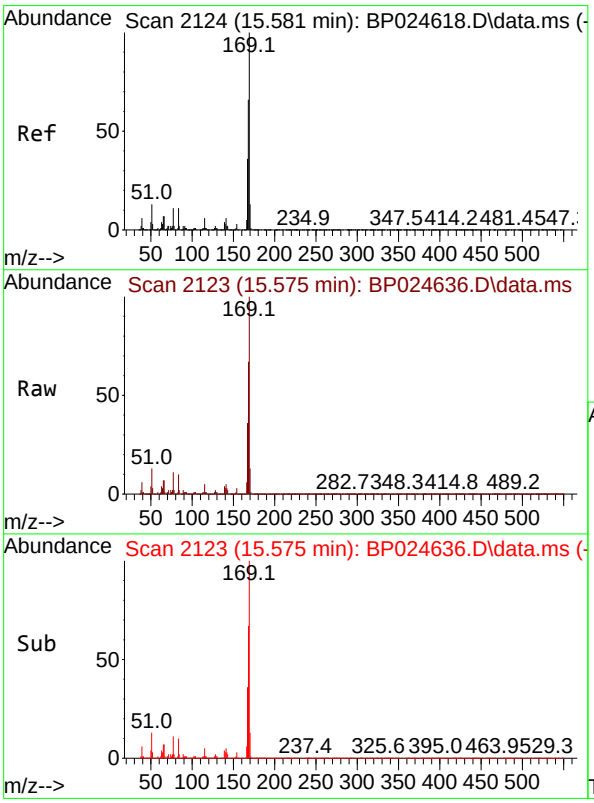
#65
4,6-Dinitro-2-methylphenol
Concen: 47.398 ng
RT: 15.463 min Scan# 21
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:198 Resp: 216160

Ion	Ratio	Lower	Upper
198	100		
51	41.6	21.1	61.1
105	43.1	23.6	63.6

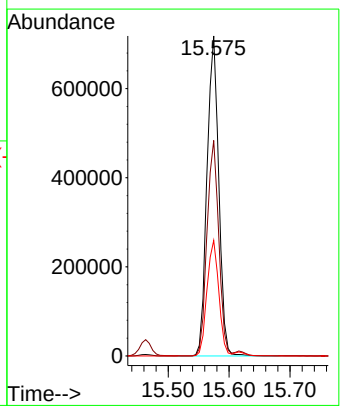


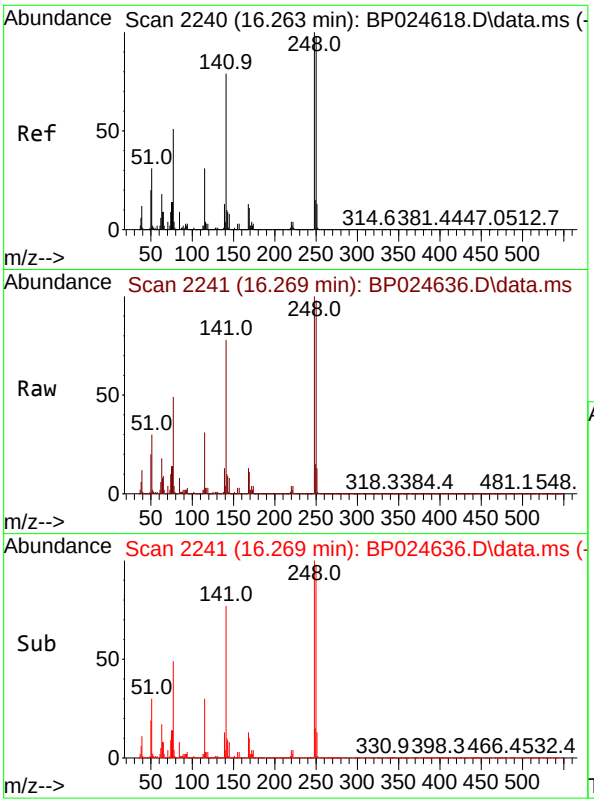


#66
n-Nitrosodiphenylamine
Concen: 44.353 ng
RT: 15.575 min Scan# 2123
Delta R.T. -0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:169 Resp: 961865

Ion	Ratio	Lower	Upper
169	100		
168	67.3	53.2	79.8
167	36.1	28.6	43.0



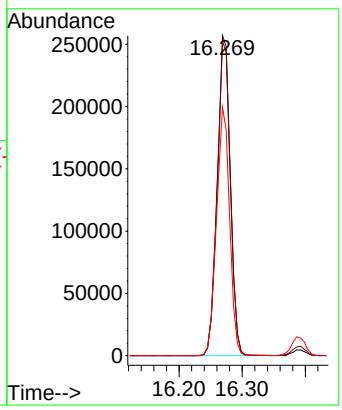


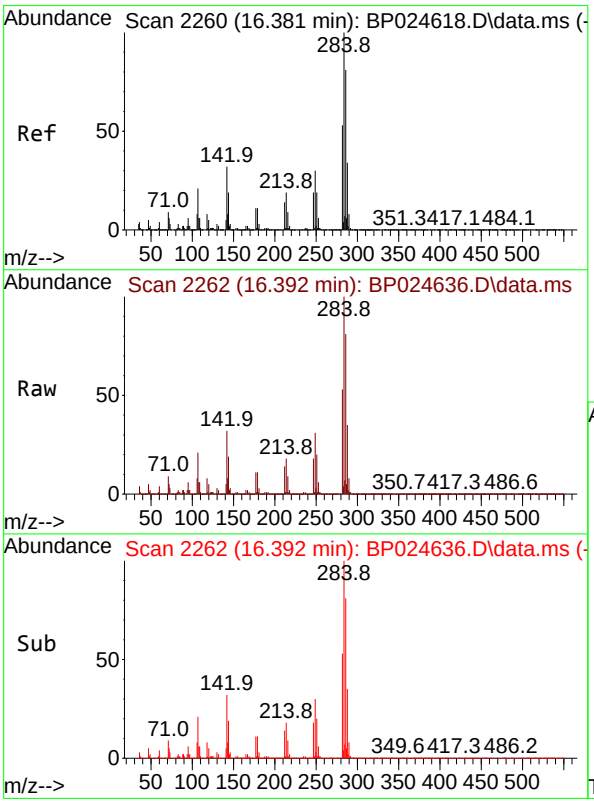
#67
4-Bromophenyl-phenylether
Concen: 44.731 ng
RT: 16.269 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:248 Resp: 372135

Ion	Ratio	Lower	Upper
248	100		
250	98.4	78.2	117.4
141	77.6	63.0	94.6

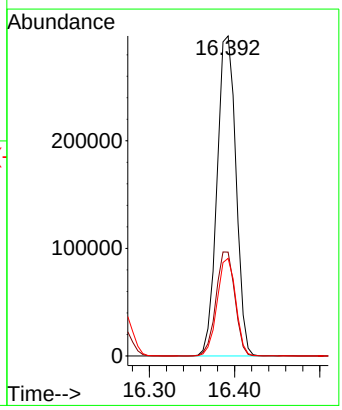


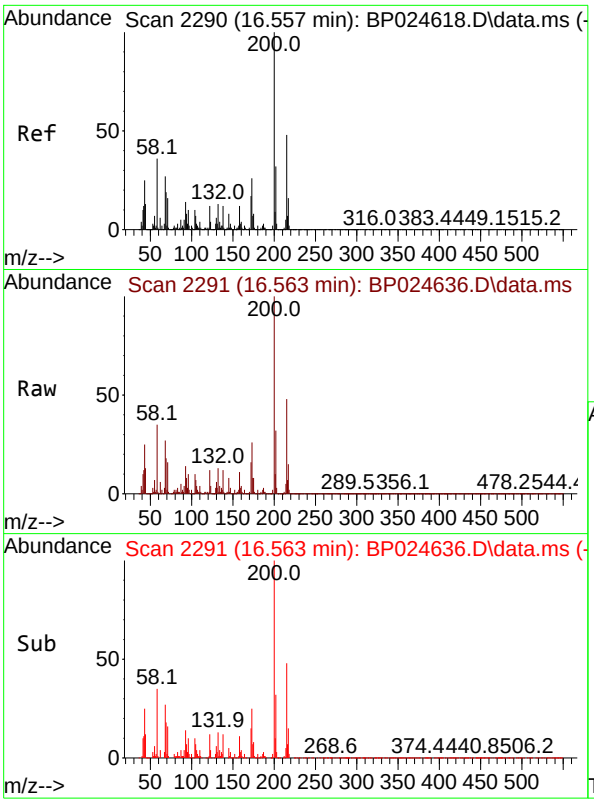


#68
Hexachlorobenzene
Concen: 43.353 ng
RT: 16.392 min Scan# 2262
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:284 Resp: 458305

Ion	Ratio	Lower	Upper
284	100		
142	32.5	25.9	38.9
249	30.5	24.1	36.1



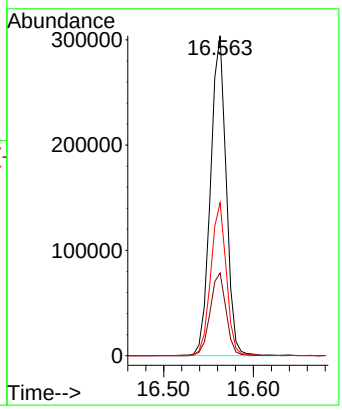


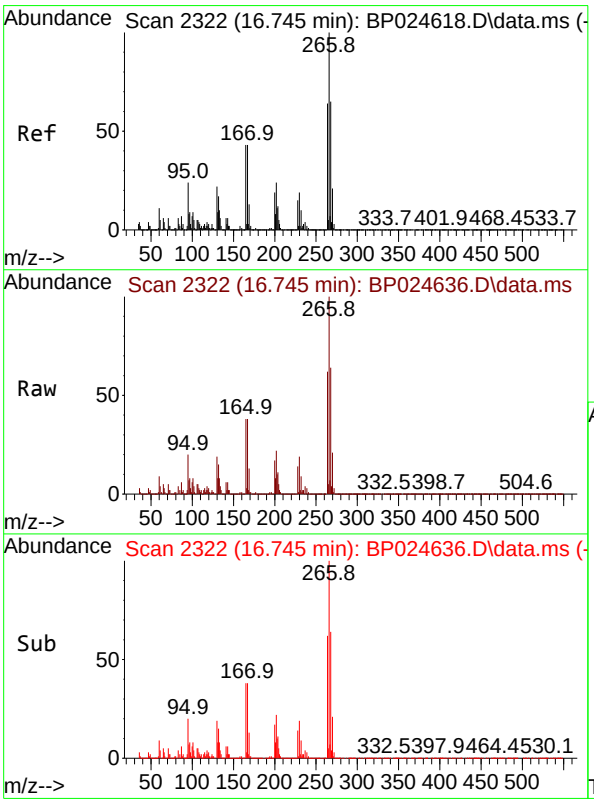
#69
Atrazine
Concen: 46.419 ng
RT: 16.563 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:200 Resp: 368913

Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.9	45.9
215	47.8	28.3	68.3

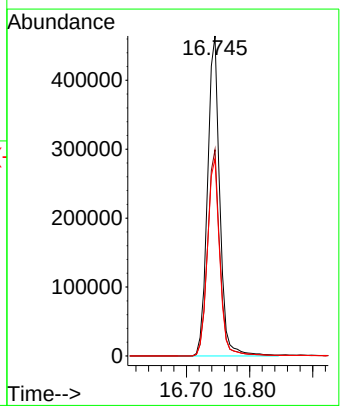


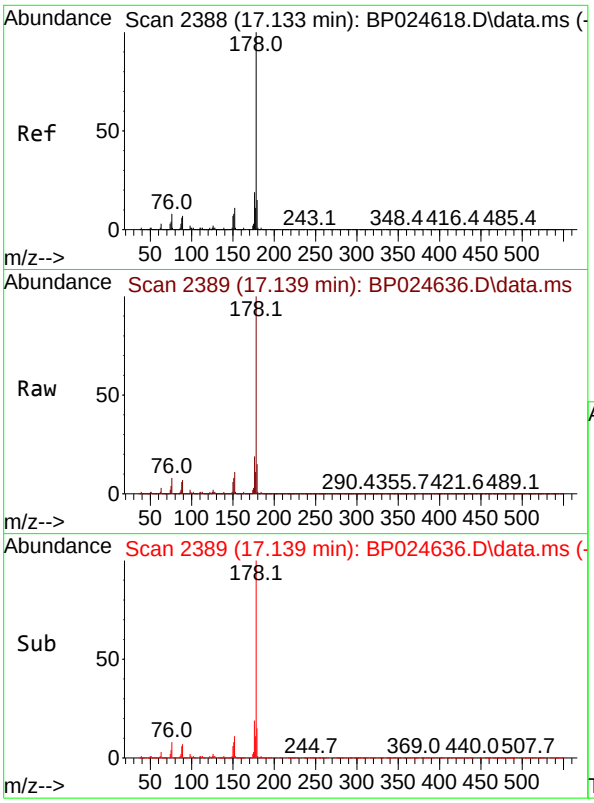


#70
Pentachlorophenol
Concen: 105.335 ng
RT: 16.745 min Scan# 2322
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:266 Resp: 625082

Ion	Ratio	Lower	Upper
266	100		
268	64.5	52.2	78.4
264	61.7	51.1	76.7



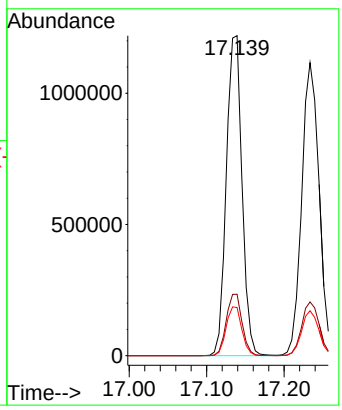


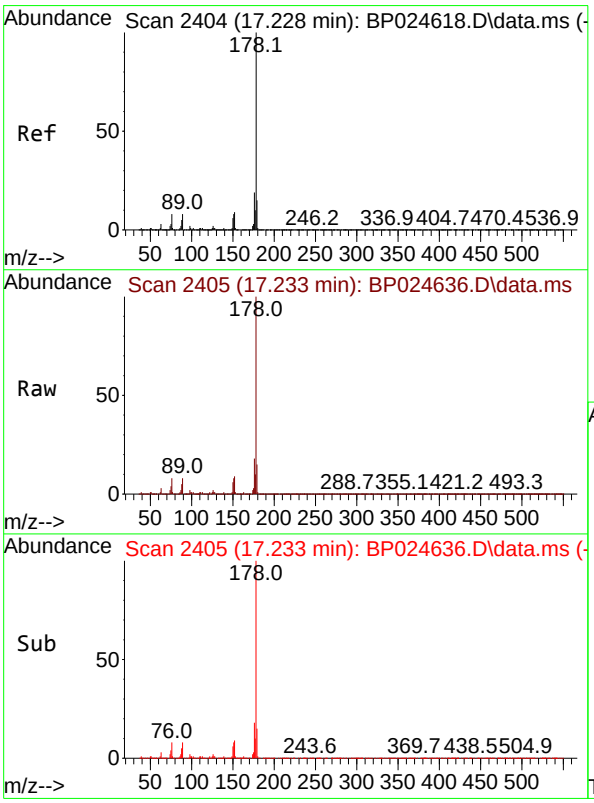
#71
Phenanthrene
Concen: 43.832 ng
RT: 17.139 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:178 Resp: 1720387

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.4	23.2
179	15.1	12.2	18.4

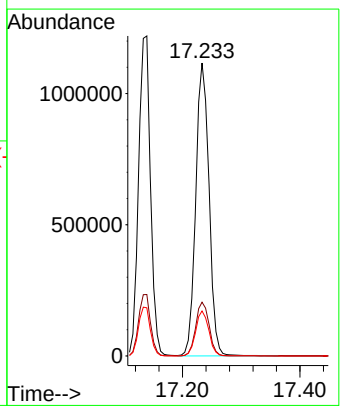


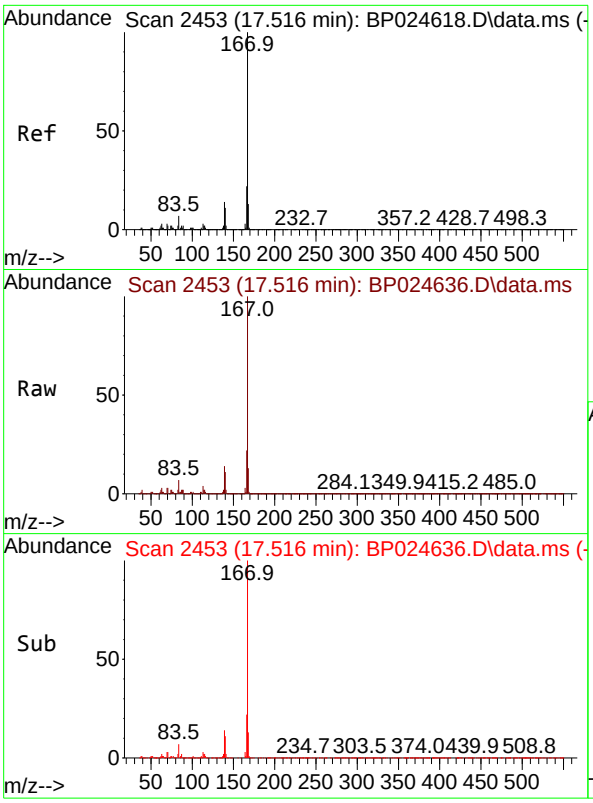


#72
Anthracene
Concen: 44.246 ng
RT: 17.233 min Scan# 2405
Delta R.T. 0.006 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:178 Resp: 1747224

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.4
179	15.3	12.2	18.2



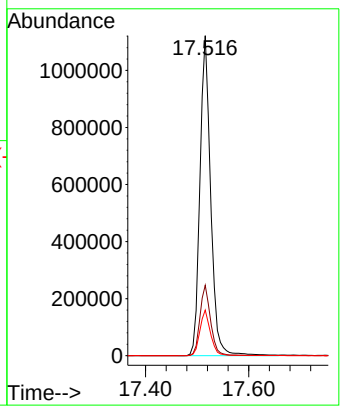


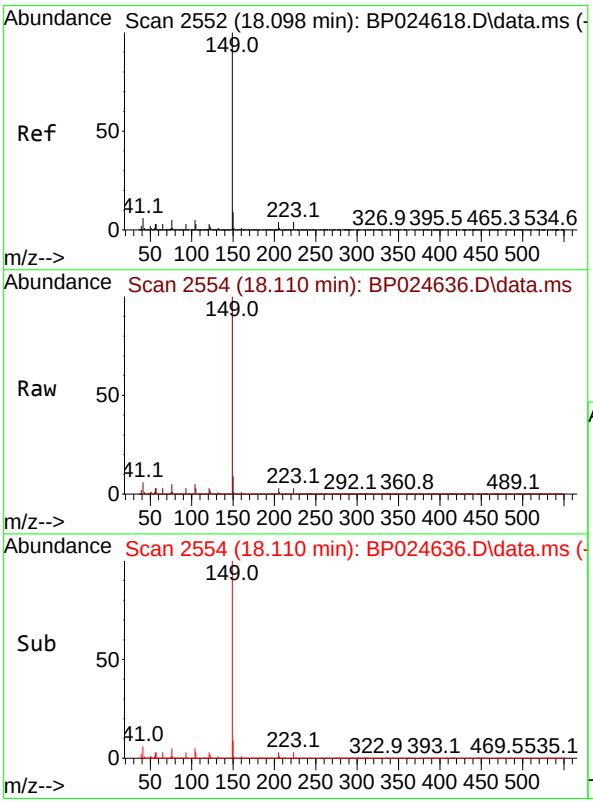
#73
Carbazole
Concen: 45.249 ng
RT: 17.516 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:167 Resp: 1617275

Ion	Ratio	Lower	Upper
167	100		
166	22.0	17.7	26.5
139	14.3	11.3	16.9

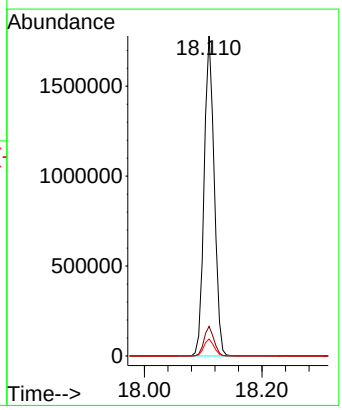


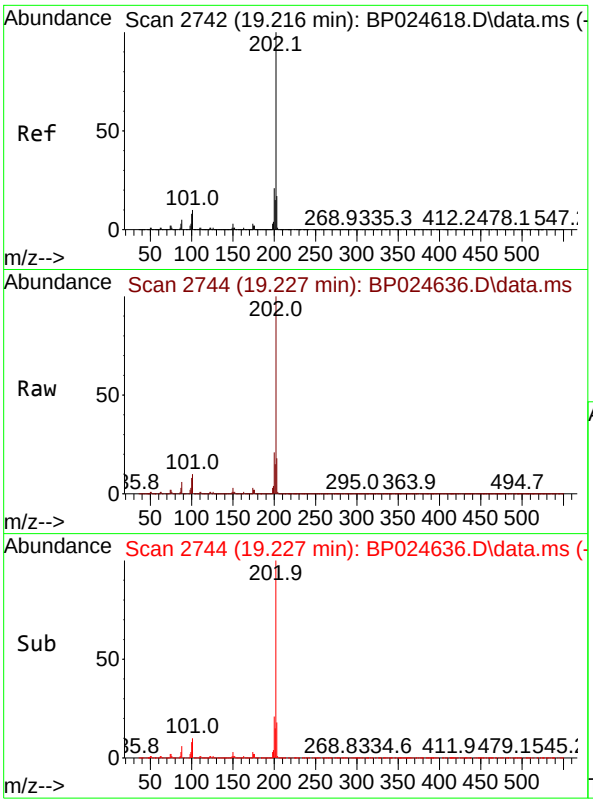


#74
Di-n-butylphthalate
Concen: 46.164 ng
RT: 18.110 min Scan# 2554
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:149 Resp: 2121998

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.2	10.8
104	5.3	4.3	6.5



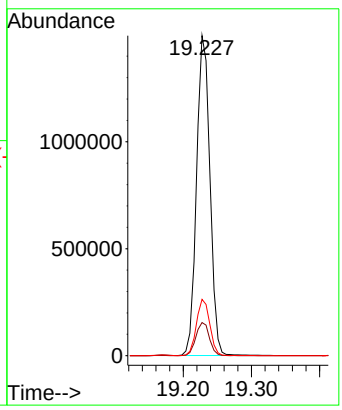


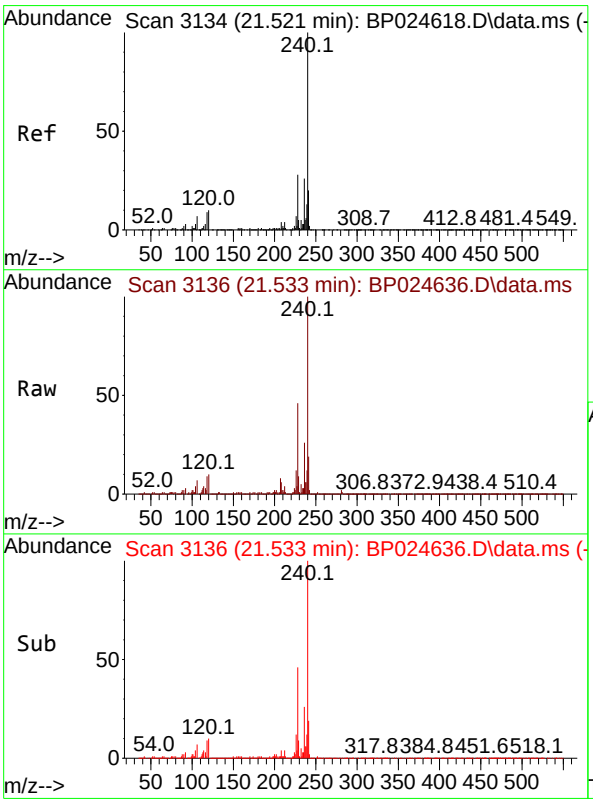
#75
Fluoranthene
Concen: 44.480 ng
RT: 19.227 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:202 Resp: 2040733

Ion	Ratio	Lower	Upper
202	100		
101	10.4	0.0	30.3
203	17.6	0.0	37.5

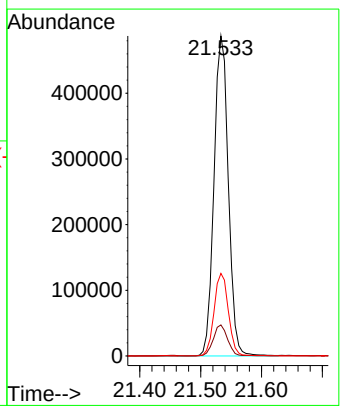


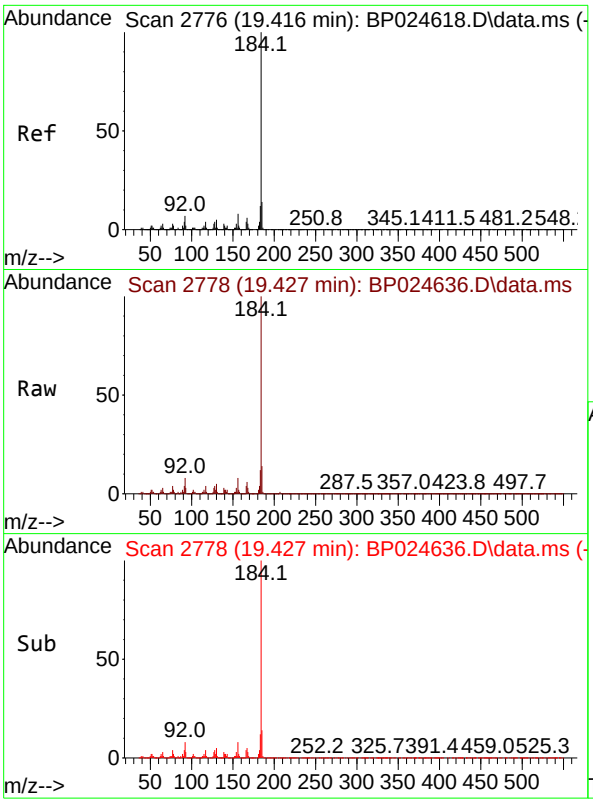


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.533 min Scan# 3136
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:240 Resp: 796554

Ion	Ratio	Lower	Upper
240	100		
120	9.7	7.8	11.6
236	25.8	20.6	31.0



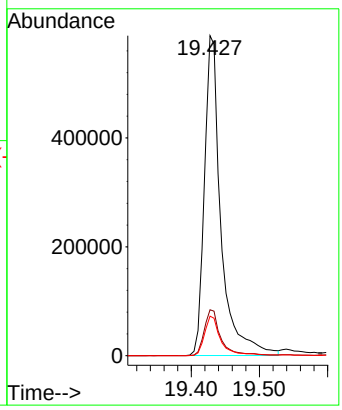


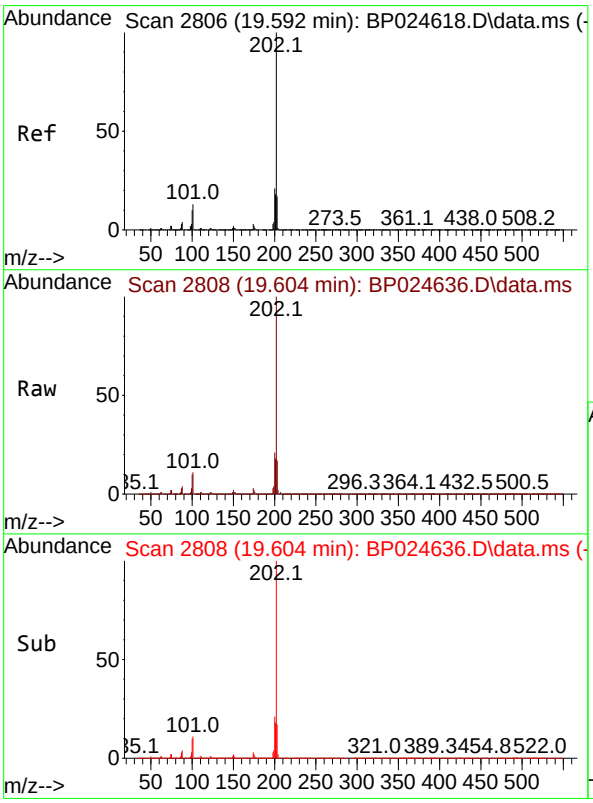
#77
Benzidine
Concen: 45.847 ng
RT: 19.427 min Scan# 2
Delta R.T. 0.011 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:184 Resp: 994653

Ion	Ratio	Lower	Upper
184	100		
185	14.3	11.2	16.8
183	12.3	9.8	14.8

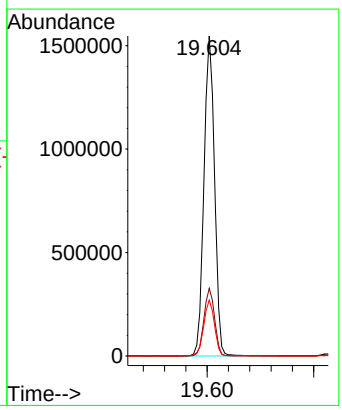


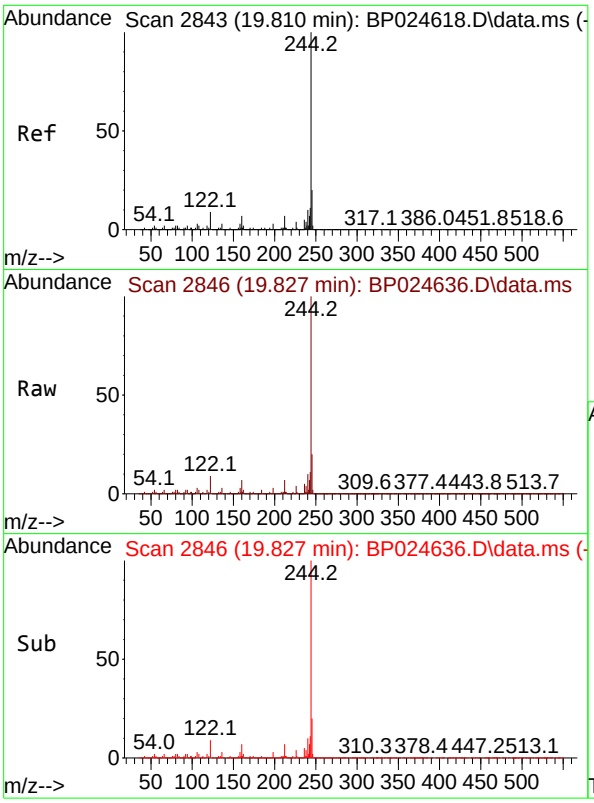


#78
Pyrene
Concen: 44.580 ng
RT: 19.604 min Scan# 2808
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:202 Resp: 2127702

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.4	13.9	20.9



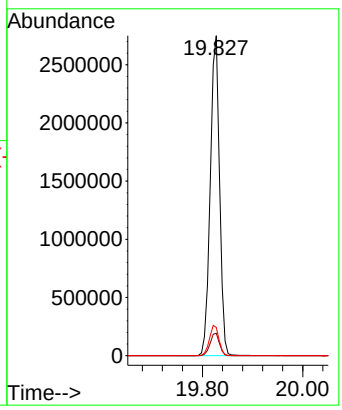


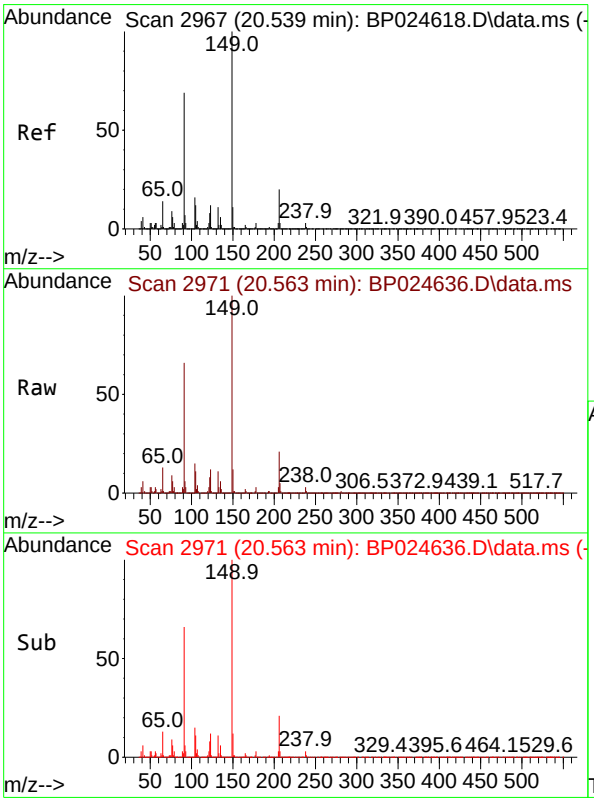
#79
Terphenyl-d14
Concen: 75.970 ng
RT: 19.827 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:244 Resp: 3529175

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	8.8	7.4	11.0

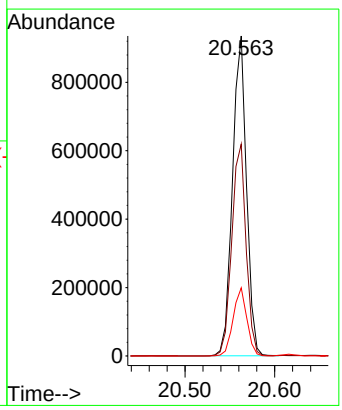


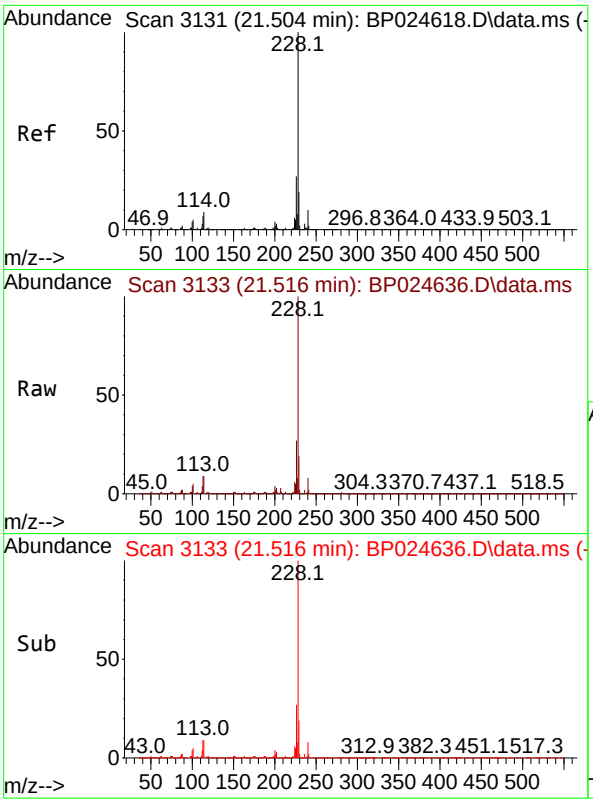


#80
Butylbenzylphthalate
Concen: 47.709 ng
RT: 20.563 min Scan# 2971
Delta R.T. 0.023 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:149 Resp: 1012695

Ion	Ratio	Lower	Upper
149	100		
91	66.2	55.4	83.0
206	21.3	16.2	24.2



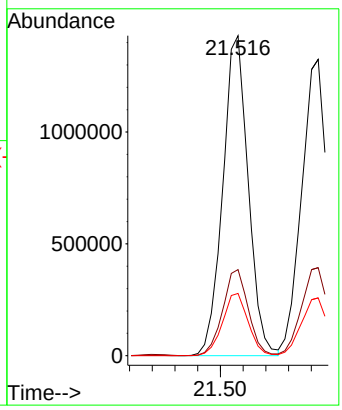


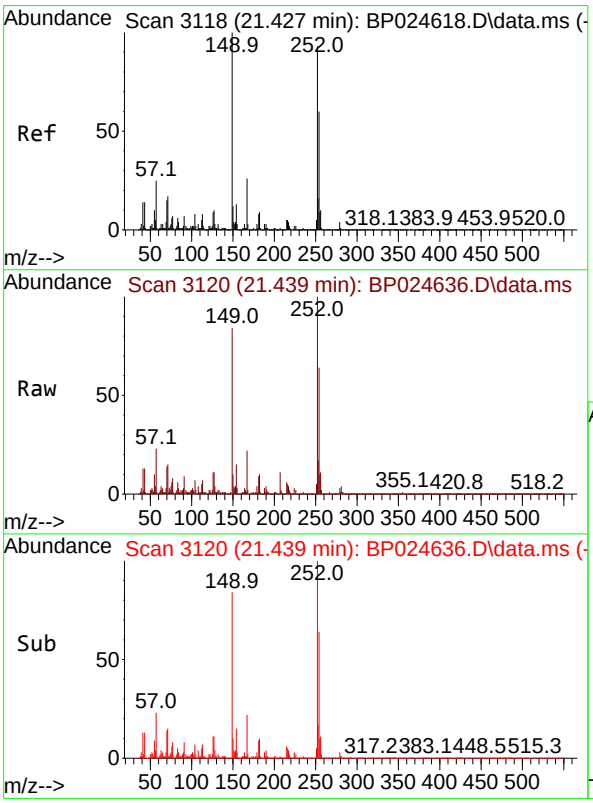
#81
Benzo(a)anthracene
Concen: 44.614 ng
RT: 21.516 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:228 Resp: 2231437

Ion	Ratio	Lower	Upper
228	100		
226	26.9	21.4	32.0
229	19.5	15.5	23.3

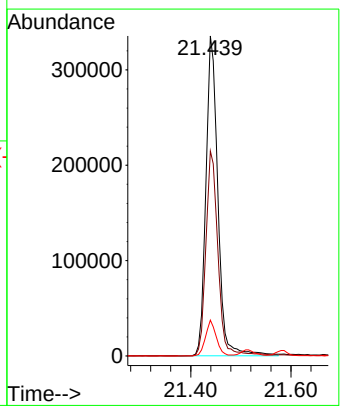


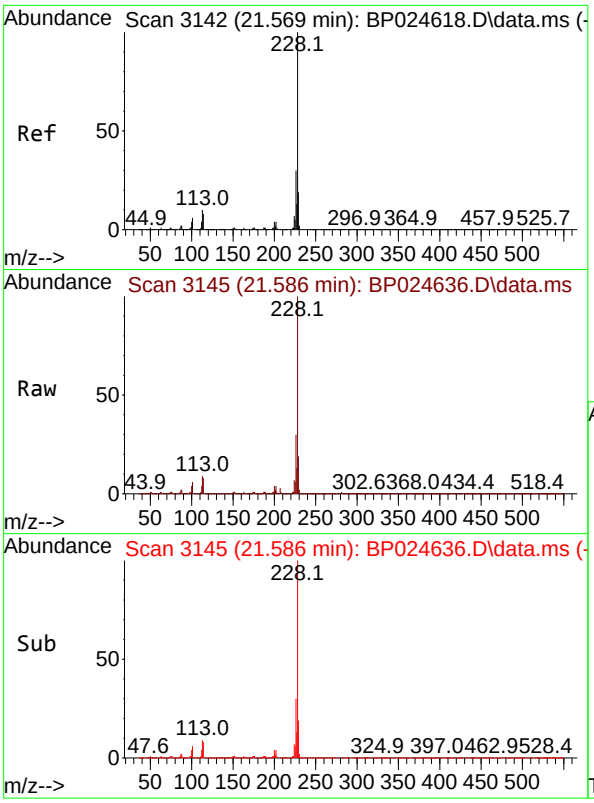


#82
3,3'-Dichlorobenzidine
Concen: 30.082 ng
RT: 21.439 min Scan# 3120
Delta R.T. 0.012 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:252 Resp: 558851

Ion	Ratio	Lower	Upper
252	100		
254	64.1	51.8	77.6
126	11.2	7.7	11.5



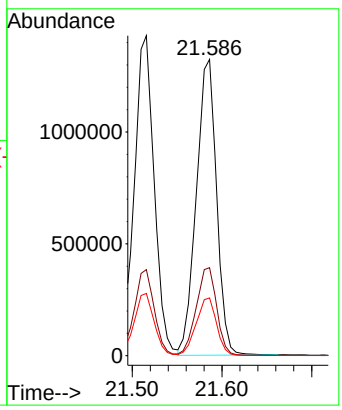


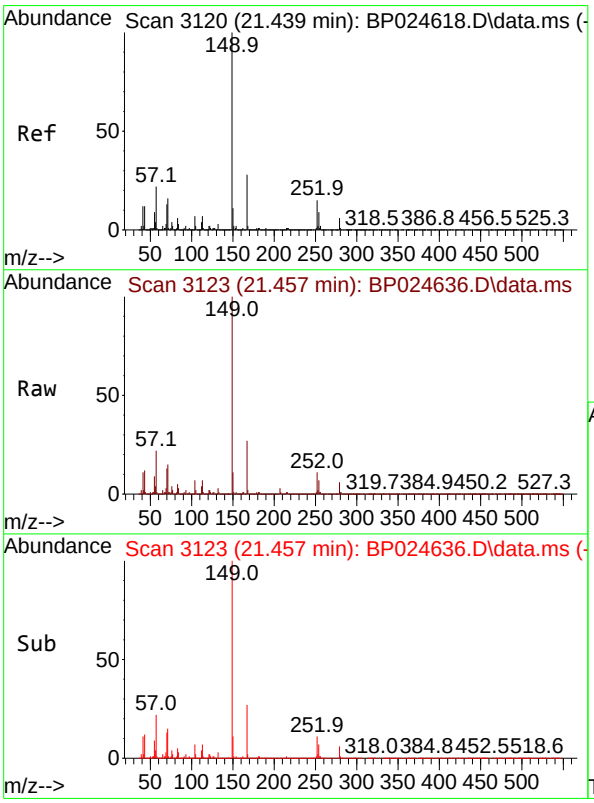
#83
Chrysene
Concen: 43.804 ng
RT: 21.586 min Scan# 3
Delta R.T. 0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:228 Resp: 2076892

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.9	35.9
229	19.5	15.5	23.3

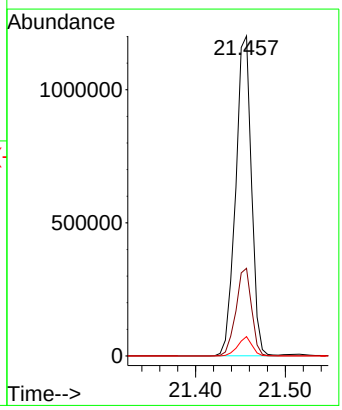


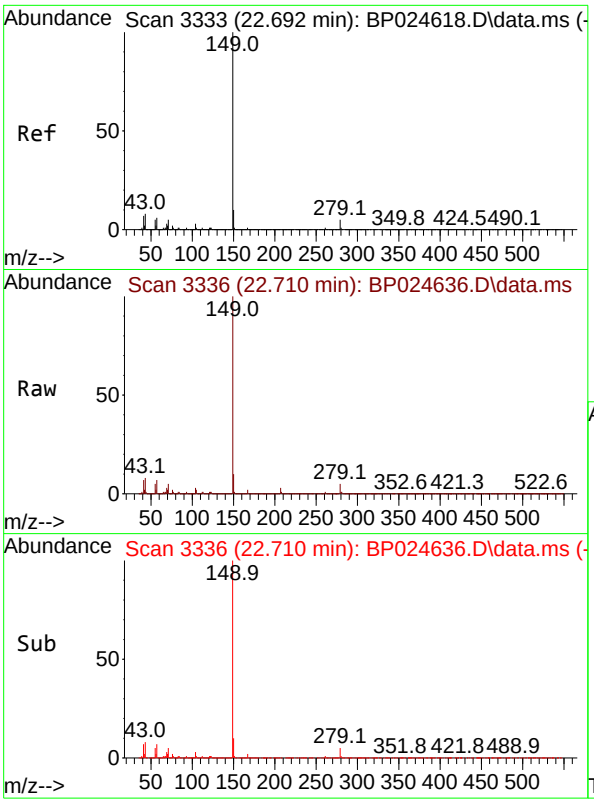


#84
Bis(2-ethylhexyl)phthalate
Concen: 46.960 ng
RT: 21.457 min Scan# 3123
Delta R.T. 0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:149 Resp: 1465106

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.1	33.1
279	6.0	4.6	6.8



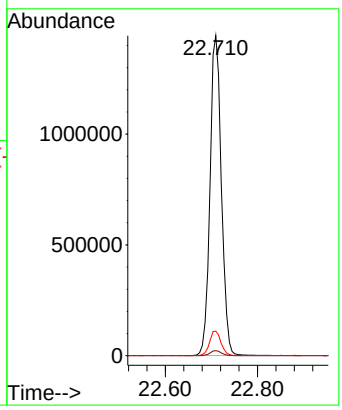


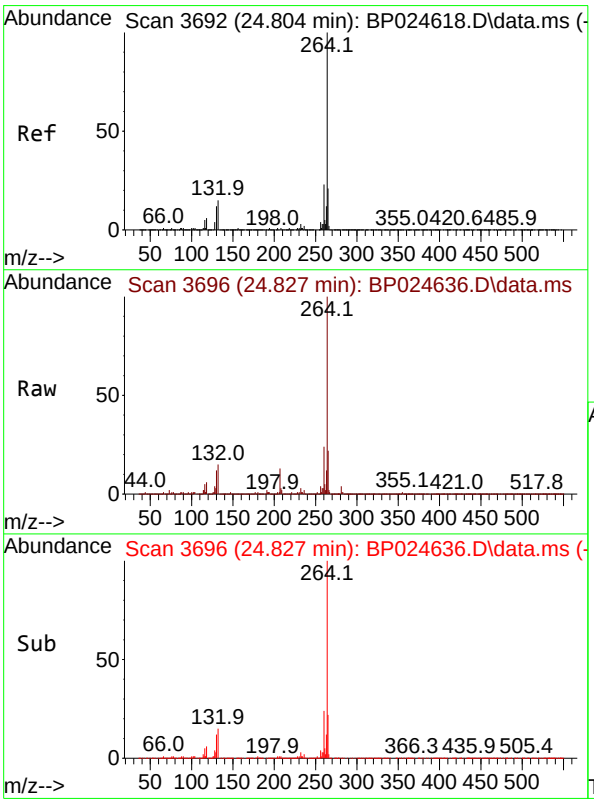
#85
Di-n-octyl phthalate
Concen: 48.391 ng
RT: 22.710 min Scan# 3
Delta R.T. 0.018 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:149 Resp: 2468875

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.8	6.3	9.5

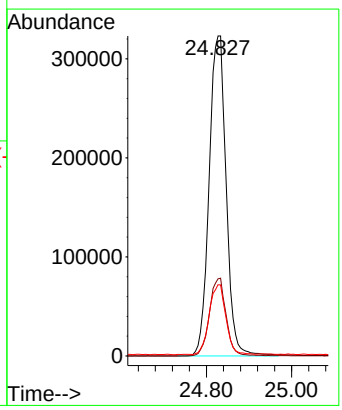


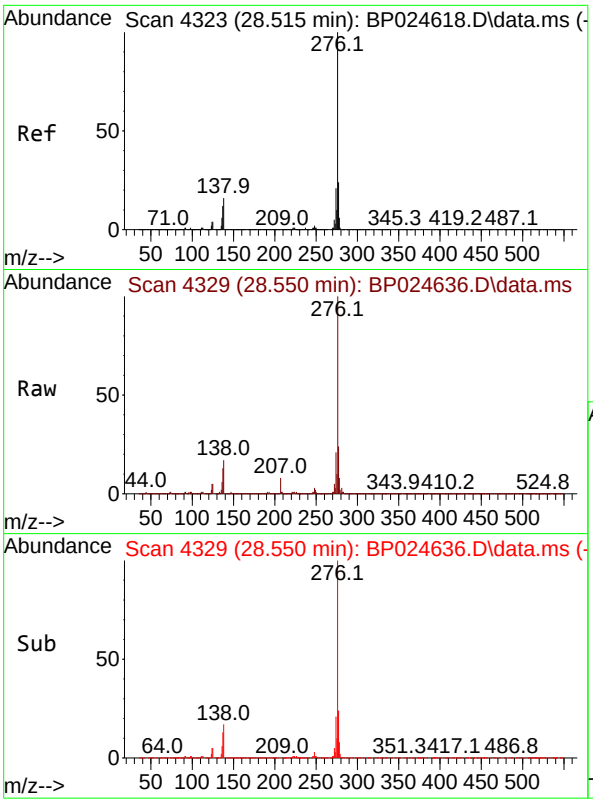


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.827 min Scan# 3696
Delta R.T. 0.023 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:264 Resp: 897451

Ion	Ratio	Lower	Upper
264	100		
260	24.1	18.7	28.1
265	22.2	17.0	25.6



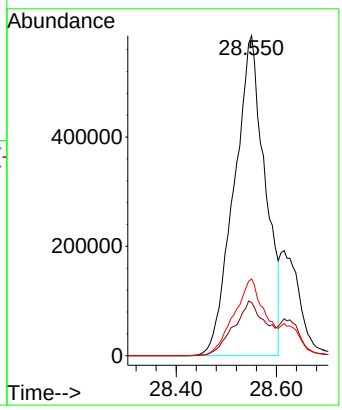


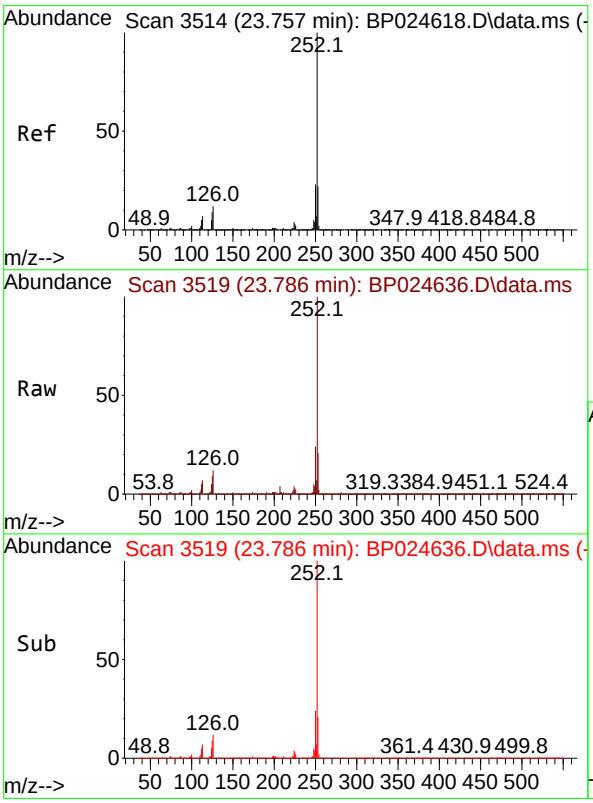
#87
Indeno(1,2,3-cd)pyrene
Concen: 38.346 ng
RT: 28.550 min Scan# 4
Delta R.T. 0.035 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:276 Resp: 2512385

Ion	Ratio	Lower	Upper
276	100		
138	17.6	11.2	16.8#
277	24.4	15.7	23.5#

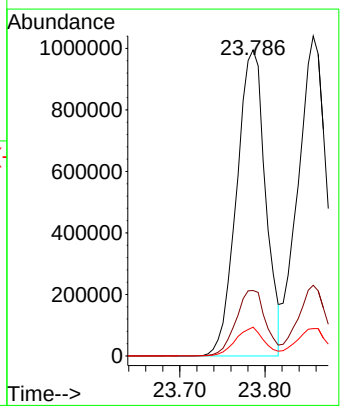


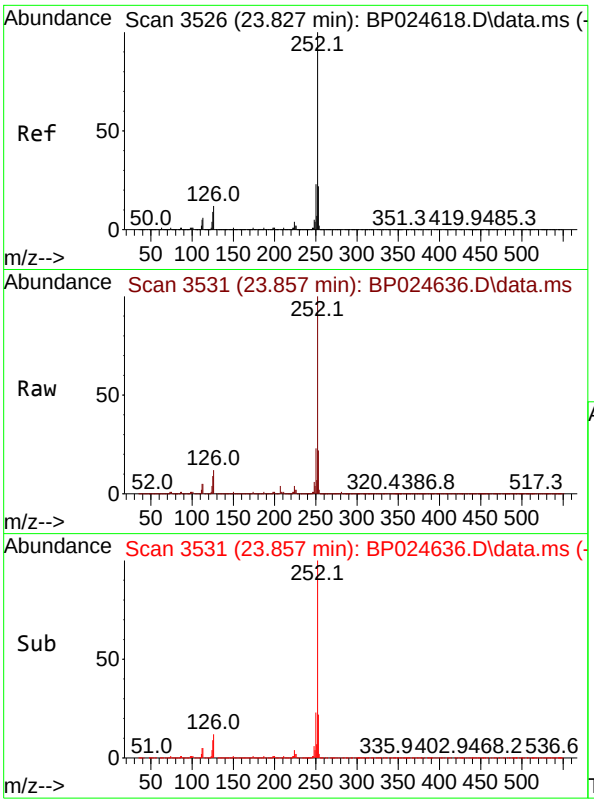


#88
Benzo(b)fluoranthene
Concen: 45.511 ng
RT: 23.786 min Scan# 3519
Delta R.T. 0.029 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:252 Resp: 2337855

Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.7	26.5
125	9.4	7.5	11.3



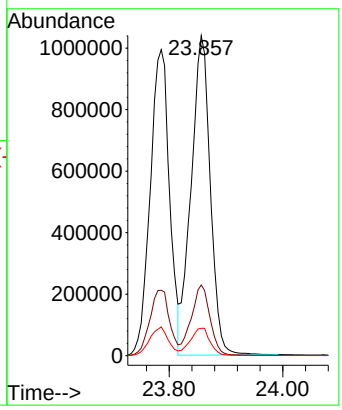


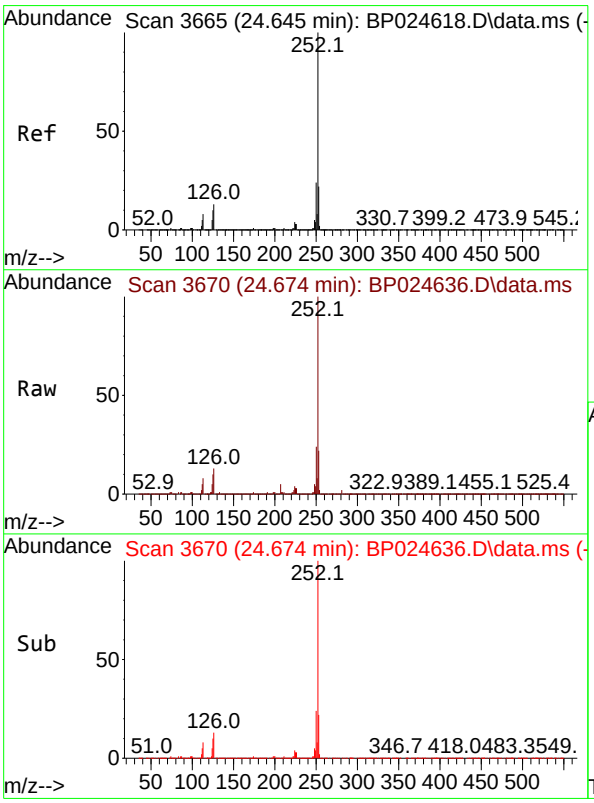
#89
Benzo(k)fluoranthene
Concen: 46.086 ng
RT: 23.857 min Scan# 3
Delta R.T. 0.029 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:252 Resp: 2439419

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	8.5	7.0	10.4

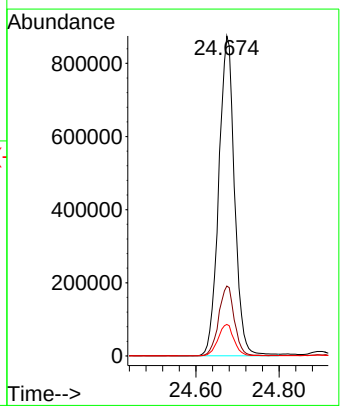


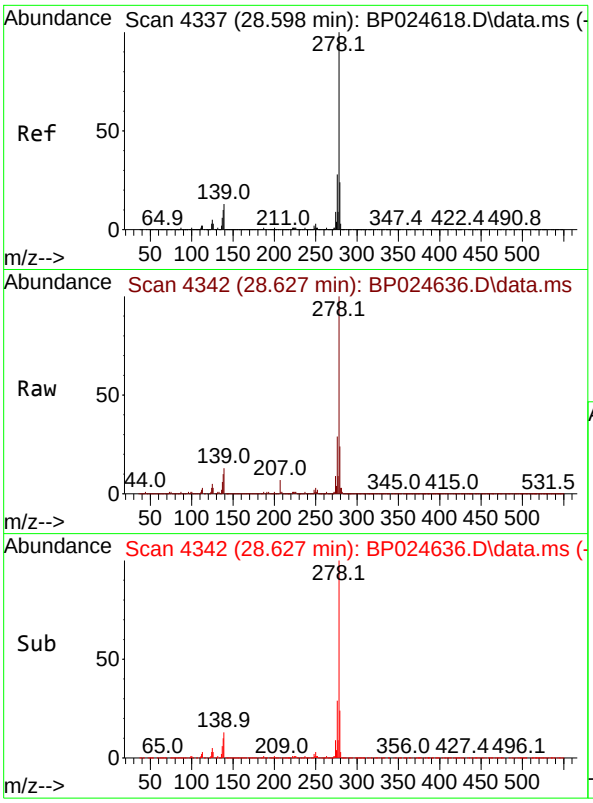


#90
Benzo(a)pyrene
Concen: 46.597 ng
RT: 24.674 min Scan# 3670
Delta R.T. 0.029 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:252 Resp: 2298890

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.7	26.5
125	9.9	8.1	12.1



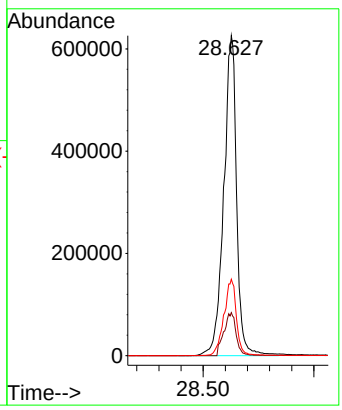


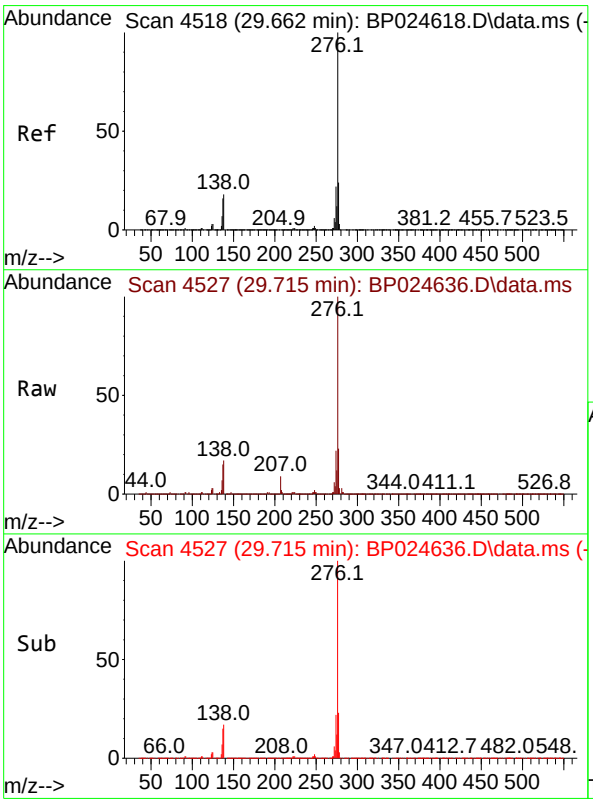
#91
Dibenzo(a,h)anthracene
Concen: 47.273 ng
RT: 28.627 min Scan# 4
Delta R.T. 0.029 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Instrument :
BNA_P
ClientSampleId :
PB167973BS

Tgt Ion:278 Resp: 2519774

Ion	Ratio	Lower	Upper
278	100		
139	13.5	10.2	15.4
279	23.9	19.0	28.4

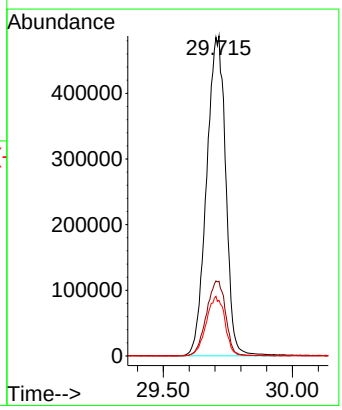




#92
Benzo(g,h,i)perylene
Concen: 47.150 ng
RT: 29.715 min Scan# 4527
Delta R.T. 0.053 min
Lab File: BP024636.D
Acq: 15 May 2025 13:53

Tgt Ion:276 Resp: 2499215

Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.0	28.4
138	17.4	14.4	21.6



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024639.D
Acq On : 15 May 2025 15:59
Operator : RC/JU
Sample : Q2010-02MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Quant Time: May 15 16:30:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.657	152	159501	20.000	ng	0.00
21) Naphthalene-d8	10.428	136	628820	20.000	ng	0.00
39) Acenaphthene-d10	14.298	164	375530	20.000	ng	0.00
64) Phenanthrene-d10	17.104	188	726778	20.000	ng	0.00
76) Chrysene-d12	21.527	240	785534	20.000	ng	0.00
86) Perylene-d12	24.798	264	909133	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	842673	90.362	ng	0.00
7) Phenol-d6	6.852	99	1048617	88.105	ng	0.00
23) Nitrobenzene-d5	8.810	82	651986	52.388	ng	0.00
42) 2,4,6-Tribromophenol	15.828	330	550955	86.542	ng	0.02
45) 2-Fluorobiphenyl	12.904	172	1458091	50.869	ng	0.00
79) Terphenyl-d14	19.821	244	2280930	49.789	ng	0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.228	88	165000	37.680	ng	99
3) Pyridine	3.616	79	403411	41.547	ng	98
4) n-Nitrosodimethylamine	3.534	42	186147	43.425	ng	97
6) Aniline	6.999	93	560425	36.471	ng	99
8) 2-Chlorophenol	7.240	128	504222	47.629	ng	99
9) Benzaldehyde	6.816	77	308327	40.019	ng	99
10) Phenol	6.881	94	590851	48.098	ng	98
11) bis(2-Chloroethyl)ether	7.093	93	429994	42.599	ng	99
12) 1,3-Dichlorobenzene	7.552	146	535369	43.956	ng	99
13) 1,4-Dichlorobenzene	7.693	146	543293	44.350	ng	99
14) 1,2-Dichlorobenzene	8.004	146	521355	43.677	ng	99
15) Benzyl Alcohol	7.904	79	417550	46.166	ng	99
16) 2,2'-oxybis(1-Chloropr...	8.181	45	507595	41.990	ng	98
17) 2-Methylphenol	8.110	107	400289	45.432	ng	99
18) Hexachloroethane	8.722	117	205990	43.881	ng	96
19) n-Nitroso-di-n-propyla...	8.457	70	334353	40.611	ng	99
20) 3+4-Methylphenols	8.434	107	542791	45.290	ng	97
22) Acetophenone	8.475	105	708122	45.082	ng	98
24) Nitrobenzene	8.851	77	500401	45.690	ng	97
25) Isophorone	9.375	82	946143	43.827	ng	100
26) 2-Nitrophenol	9.551	139	268593	50.048	ng	98
27) 2,4-Dimethylphenol	9.622	122	454005	47.982	ng	100
28) bis(2-Chloroethoxy)met...	9.846	93	576552	44.702	ng	99
29) 2,4-Dichlorophenol	10.087	162	451816	49.275	ng	97
30) 1,2,4-Trichlorobenzene	10.293	180	477127	46.177	ng	97
31) Naphthalene	10.475	128	1467759	45.043	ng	100
32) Benzoic acid	9.787	122	322696	48.835	ng	99
33) 4-Chloroaniline	10.598	127	377895	28.739	ng	99
34) Hexachlorobutadiene	10.757	225	305965	45.710	ng	96
35) Caprolactam	11.381	113	122074	36.798	ng	99
36) 4-Chloro-3-methylphenol	11.734	107	518151	46.339	ng	100
37) 2-Methylnaphthalene	12.092	142	937935	44.452	ng	99
38) 1-Methylnaphthalene	12.316	142	959403	42.496	ng	99
40) 1,2,4,5-Tetrachloroben...	12.469	216	526111	48.245	ng	99
41) Hexachlorocyclopentadiene	12.445	237	753385	113.935	ng	98
43) 2,4,6-Trichlorophenol	12.710	196	366355	51.868	ng	100

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024639.D
Acq On : 15 May 2025 15:59
Operator : RC/JU
Sample : Q2010-02MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Quant Time: May 15 16:30:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

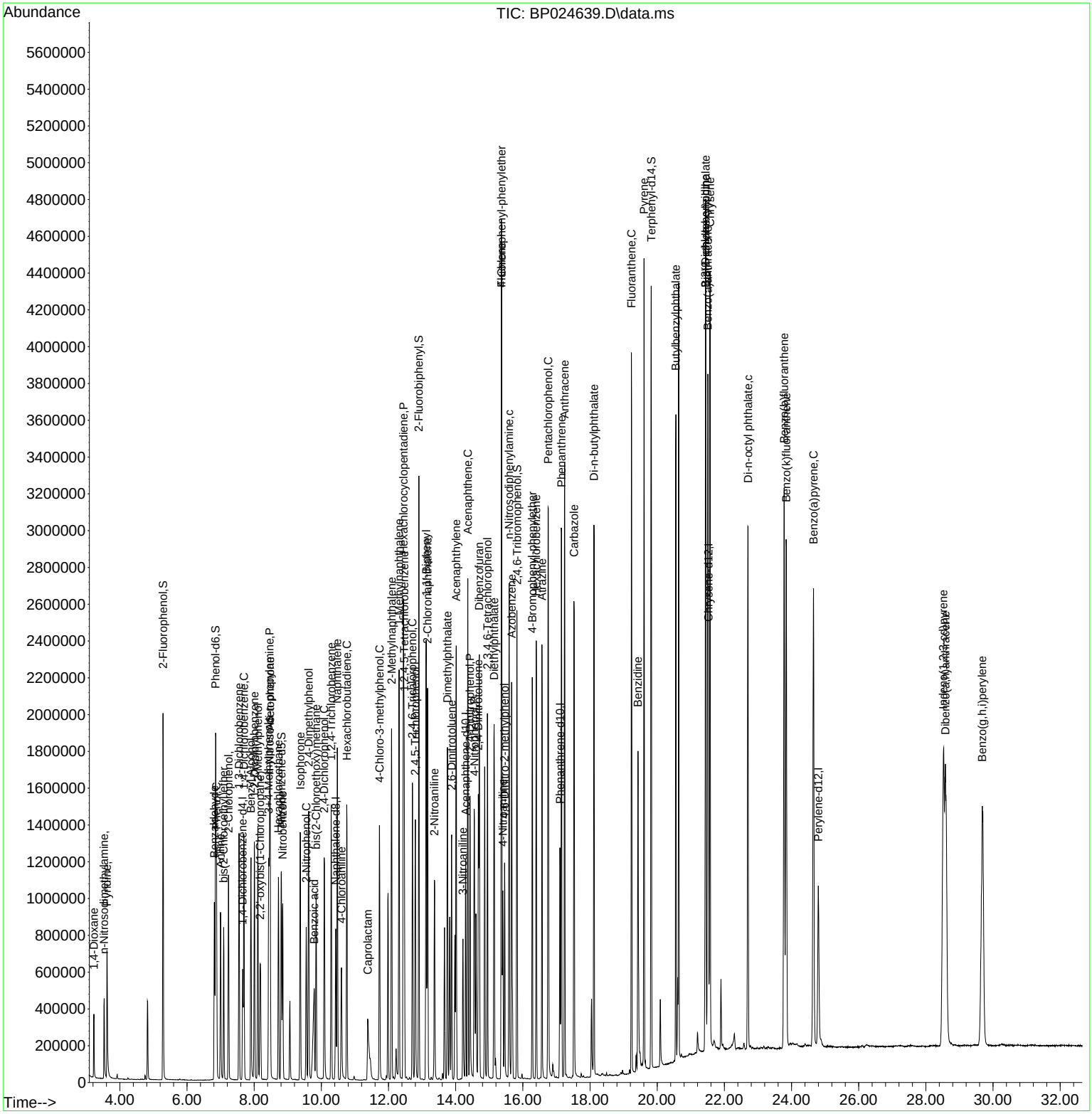
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.798	196	400383	50.924	ng		98
46) 1,1'-Biphenyl	13.122	154	1303750	46.972	ng		100
47) 2-Chloronaphthalene	13.163	162	996633	47.093	ng		100
48) 2-Nitroaniline	13.369	65	310532	49.562	ng		99
49) Acenaphthylene	14.016	152	1622651	45.817	ng		100
50) Dimethylphthalate	13.757	163	1292316	45.149	ng		100
51) 2,6-Dinitrotoluene	13.881	165	279686	46.267	ng		98
52) Acenaphthene	14.363	154	927052	45.533	ng		99
53) 3-Nitroaniline	14.216	138	207346	33.592	ng		97
54) 2,4-Dinitrophenol	14.428	184	370998	95.940	ng		98
55) Dibenzofuran	14.704	168	1468896	45.231	ng		98
56) 4-Nitrophenol	14.557	139	516252	95.730	ng		98
57) 2,4-Dinitrotoluene	14.675	165	401464	47.107	ng		99
58) Fluorene	15.363	166	1214988	45.883	ng		99
59) 2,3,4,6-Tetrachlorophenol	14.945	232	353018	48.402	ng		99
60) Diethylphthalate	15.145	149	1325337	45.812	ng		100
61) 4-Chlorophenyl-phenyle...	15.363	204	601374	45.538	ng		99
62) 4-Nitroaniline	15.404	138	294125	49.350	ng		99
63) Azobenzene	15.669	77	1233658	49.848	ng		97
65) 4,6-Dinitro-2-methylph...	15.457	198	237337	50.556	ng		98
66) n-Nitrosodiphenylamine	15.592	169	1052029	47.126	ng		99
67) 4-Bromophenyl-phenylether	16.280	248	408770	47.731	ng		98
68) Hexachlorobenzene	16.398	284	508136	46.695	ng		99
69) Atrazine	16.569	200	389218	47.576	ng		98
70) Pentachlorophenol	16.757	266	671128	109.866	ng		99
71) Phenanthrene	17.151	178	1855042	45.914	ng		100
72) Anthracene	17.245	178	1890233	46.501	ng		100
73) Carbazole	17.522	167	1770616	48.125	ng		100
74) Di-n-butylphthalate	18.116	149	2304897	48.711	ng		99
75) Fluoranthene	19.233	202	2177024	46.096	ng		100
77) Benzidine	19.427	184	1216882	56.878	ng		99
78) Pyrene	19.610	202	2253283	47.874	ng		100
80) Butylbenzylphthalate	20.557	149	1060952	50.684	ng		96
81) Benzo(a)anthracene	21.510	228	2338691	47.414	ng		99
82) 3,3'-Dichlorobenzidine	21.439	252	622869	33.999	ng		100
83) Chrysene	21.574	228	2179347	46.609	ng		100
84) Bis(2-ethylhexyl)phtha...	21.445	149	1512698	49.165	ng		100
85) Di-n-octyl phthalate	22.704	149	2553144	50.745	ng		100
87) Indeno(1,2,3-cd)pyrene	28.521	276	3226858	48.618	ng	#	85
88) Benzo(b)fluoranthene	23.780	252	2476684	47.594	ng		100
89) Benzo(k)fluoranthene	23.845	252	2478499	46.222	ng		99
90) Benzo(a)pyrene	24.657	252	2397923	47.980	ng		99
91) Dibenzo(a,h)anthracene	28.586	278	2621583	48.552	ng		100
92) Benzo(g,h,i)perylene	29.680	276	2625102	48.888	ng		100

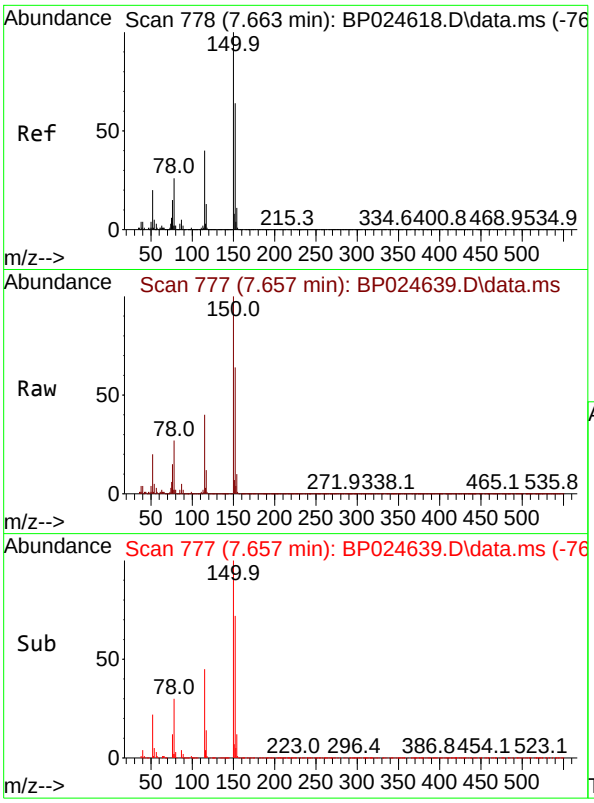
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024639.D
Acq On : 15 May 2025 15:59
Operator : RC/JU
Sample : Q2010-02MSD
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Quant Time: May 15 16:30:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



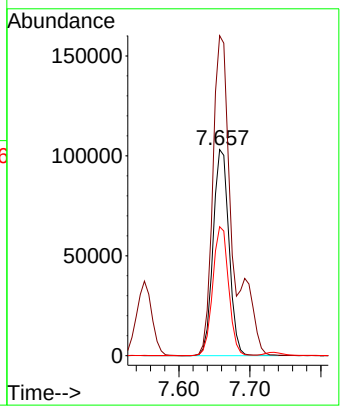


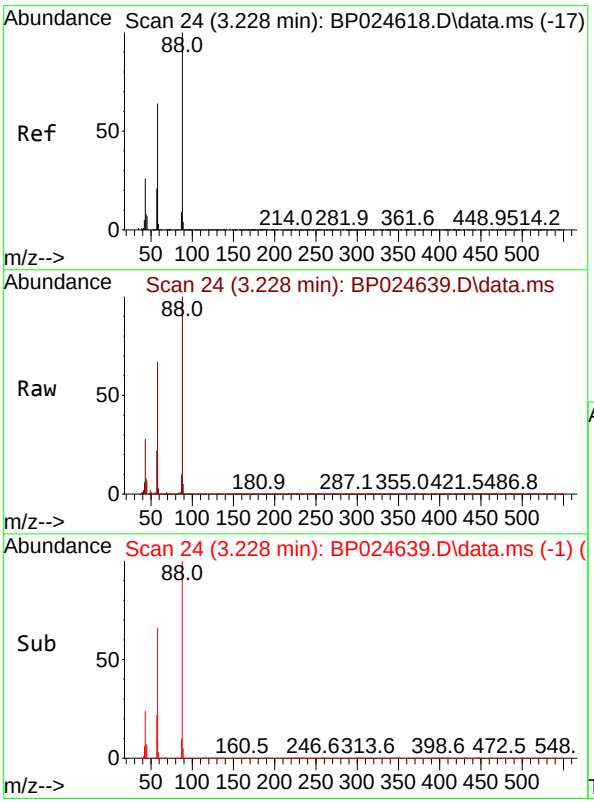
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.657 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:152 Resp: 159501

Ion	Ratio	Lower	Upper
152	100		
150	155.2	125.9	188.9
115	62.6	50.1	75.1

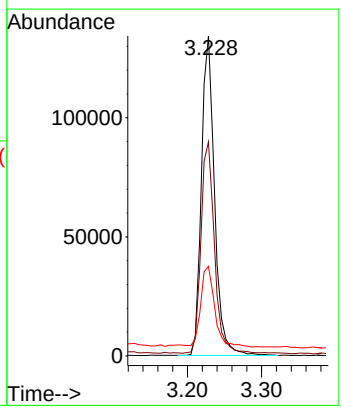


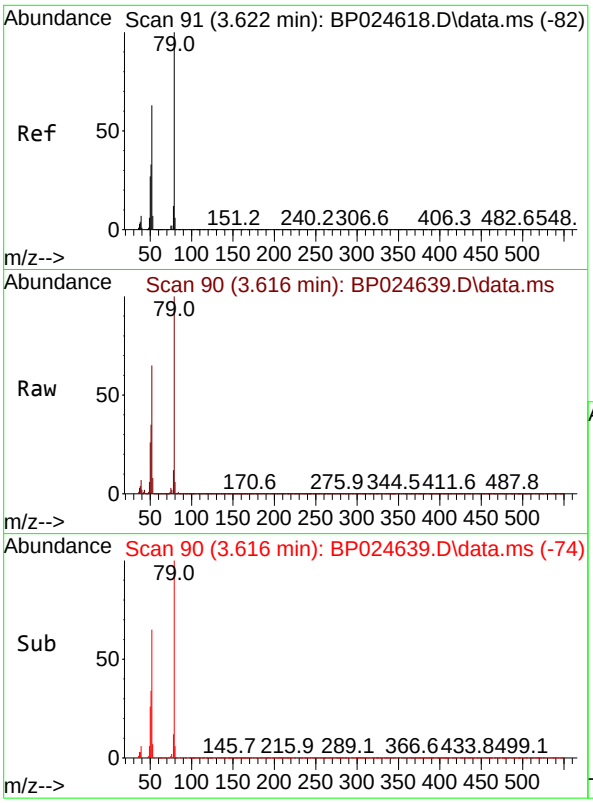


#2
1,4-Dioxane
Concen: 37.680 ng
RT: 3.228 min Scan# 24
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 88 Resp: 165000

Ion	Ratio	Lower	Upper
88	100		
58	68.7	54.0	81.0
43	27.0	21.4	32.0



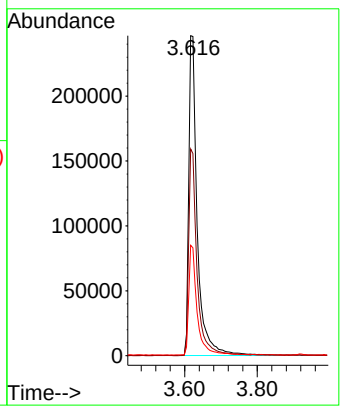


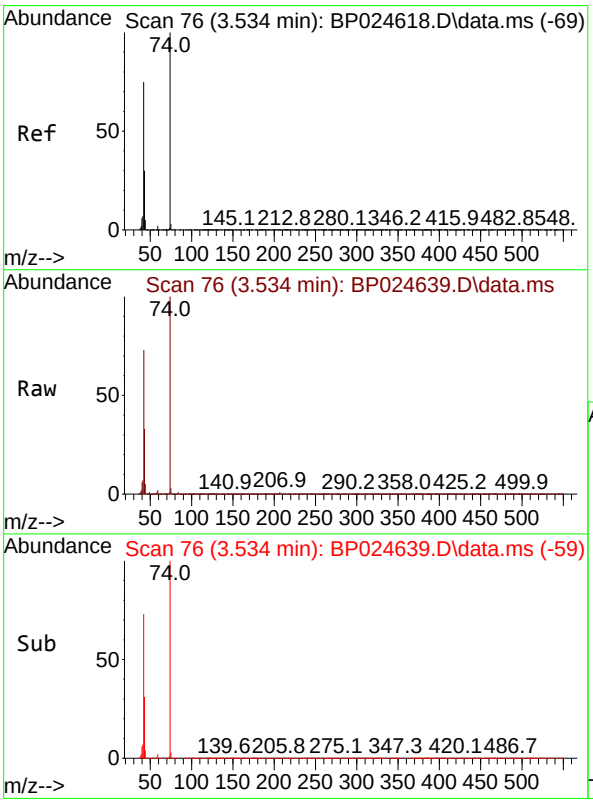
#3
Pyridine
Concen: 41.547 ng
RT: 3.616 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 79 Resp: 403411

Ion	Ratio	Lower	Upper
79	100		
52	64.6	50.2	75.2
51	34.5	26.8	40.2

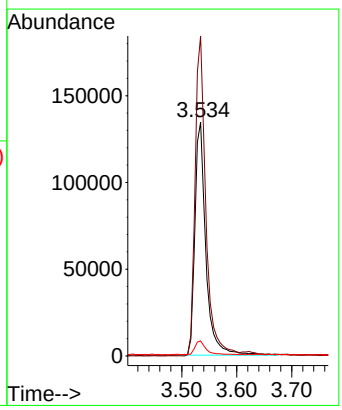


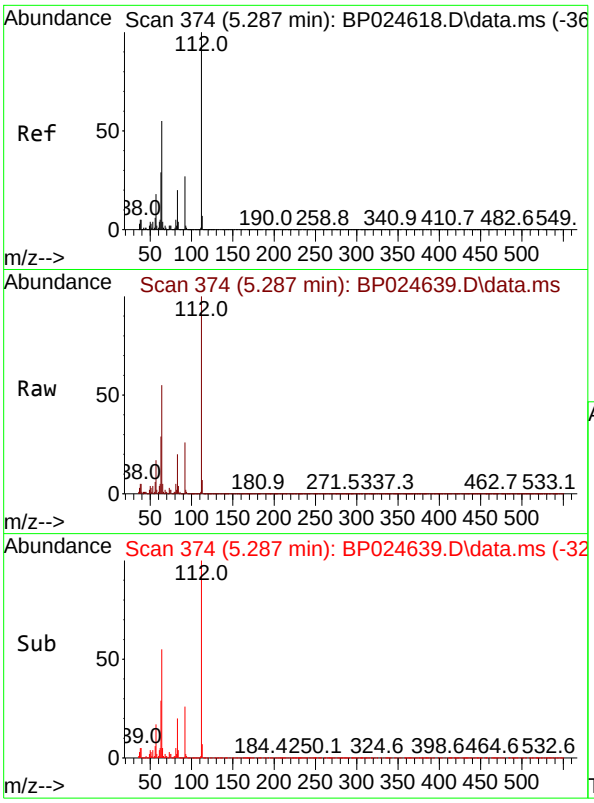


#4
n-Nitrosodimethylamine
Concen: 43.425 ng
RT: 3.534 min Scan# 76
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 42 Resp: 186147

Ion	Ratio	Lower	Upper
42	100		
74	136.8	106.2	159.2
44	6.4	5.4	8.2



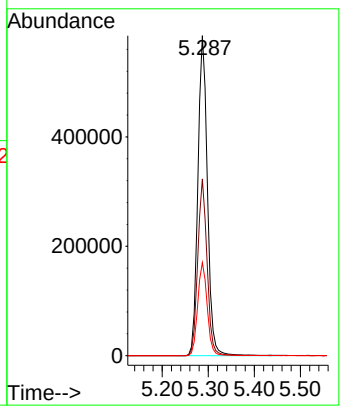


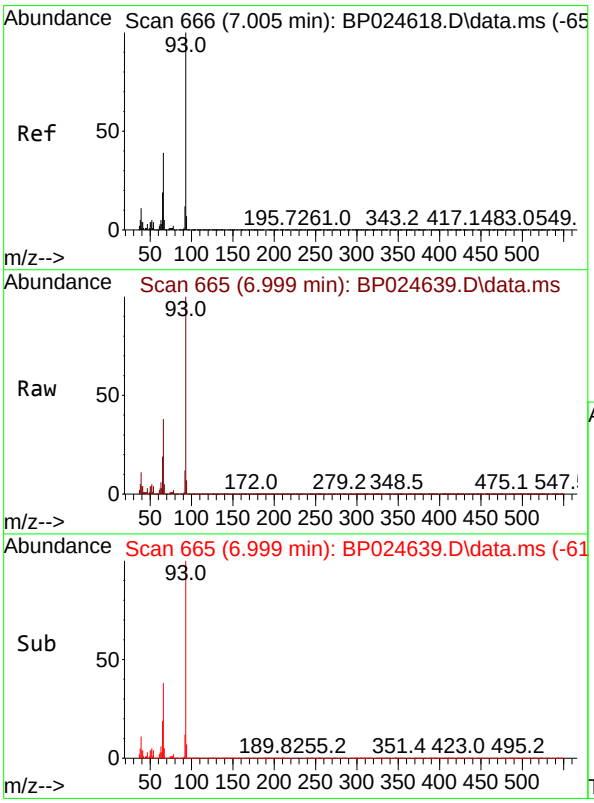
#5
2-Fluorophenol
Concen: 90.362 ng
RT: 5.287 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:112 Resp: 842673

Ion	Ratio	Lower	Upper
112	100		
64	55.3	44.1	66.1
63	29.1	23.5	35.3

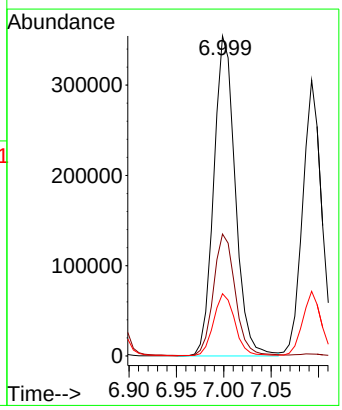


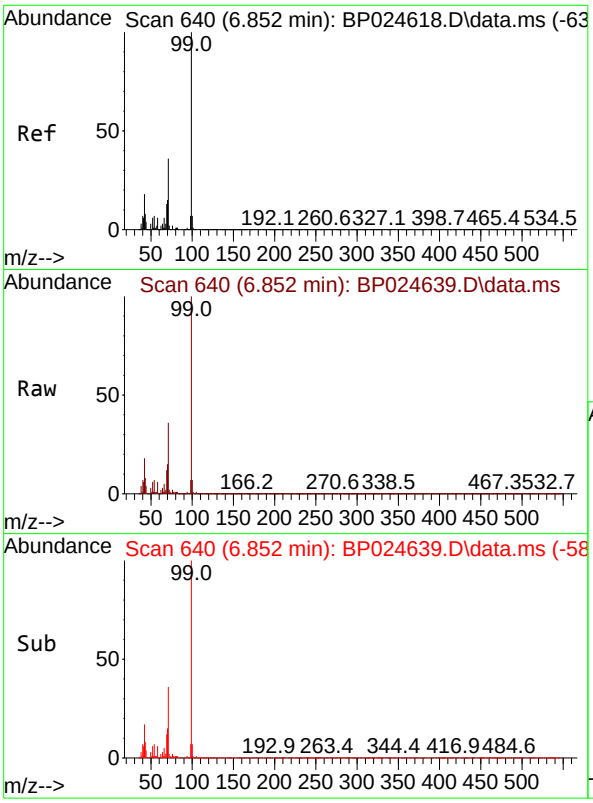


#6
Aniline
Concen: 36.471 ng
RT: 6.999 min Scan# 665
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 93 Resp: 560425

Ion	Ratio	Lower	Upper
93	100		
66	38.1	31.0	46.6
65	19.5	15.5	23.3



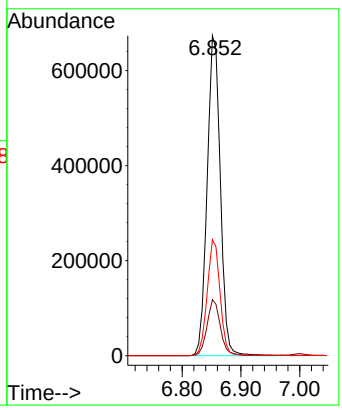


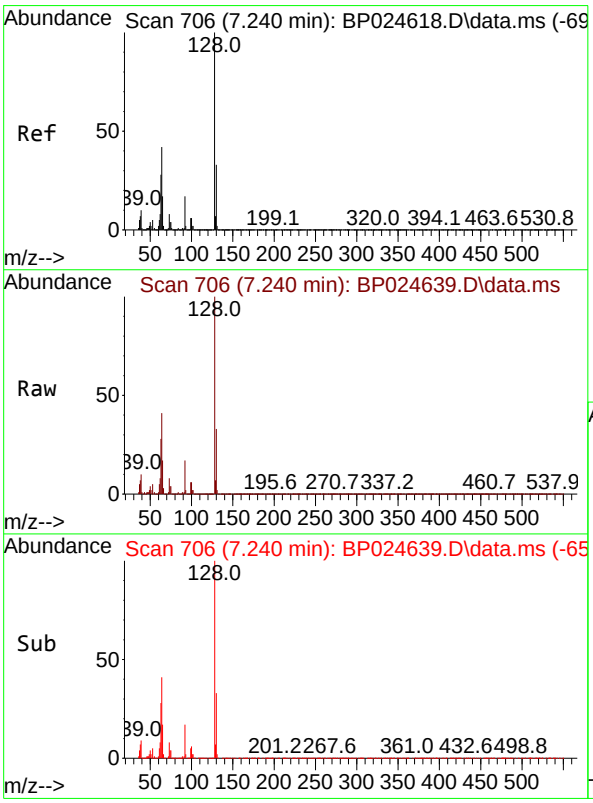
#7
Phenol-d6
Concen: 88.105 ng
RT: 6.852 min Scan# 64
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 99 Resp: 1048617

Ion	Ratio	Lower	Upper
99	100		
42	17.5	14.4	21.6
71	36.3	29.2	43.8

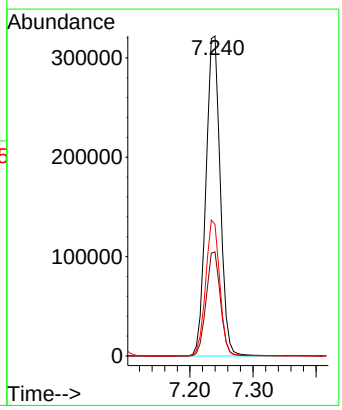


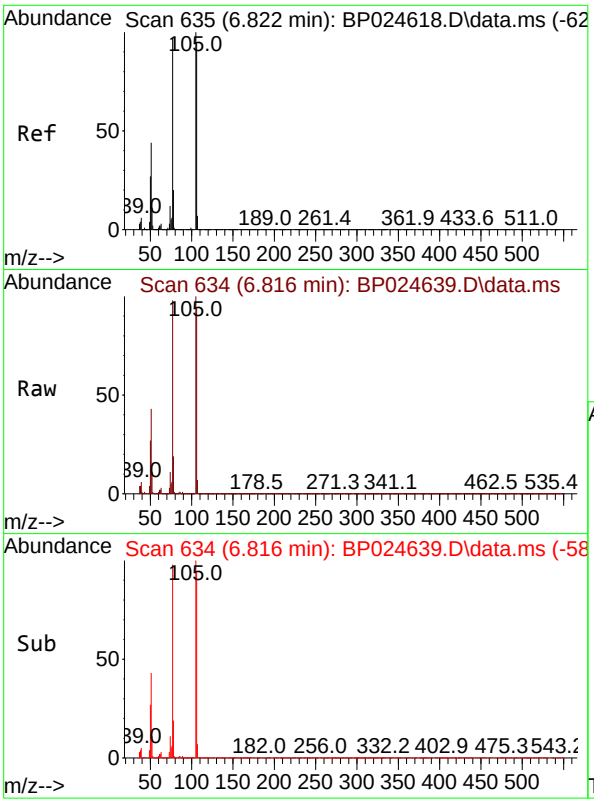


#8
2-Chlorophenol
Concen: 47.629 ng
RT: 7.240 min Scan# 706
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:128 Resp: 504222

Ion	Ratio	Lower	Upper
128	100		
130	32.5	13.0	53.0
64	41.1	22.3	62.3



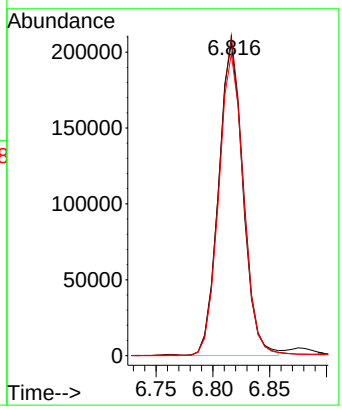


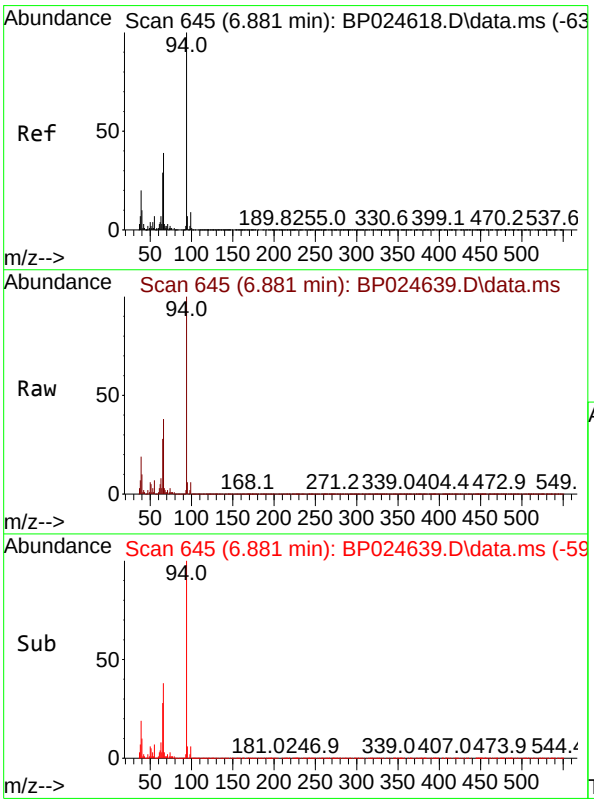
#9
Benzaldehyde
Concen: 40.019 ng
RT: 6.816 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 77 Resp: 308327

Ion	Ratio	Lower	Upper
77	100		
105	102.4	83.3	123.3
106	96.6	78.0	118.0

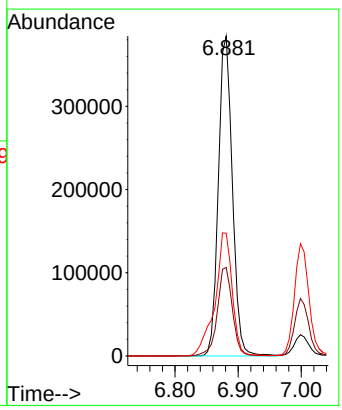


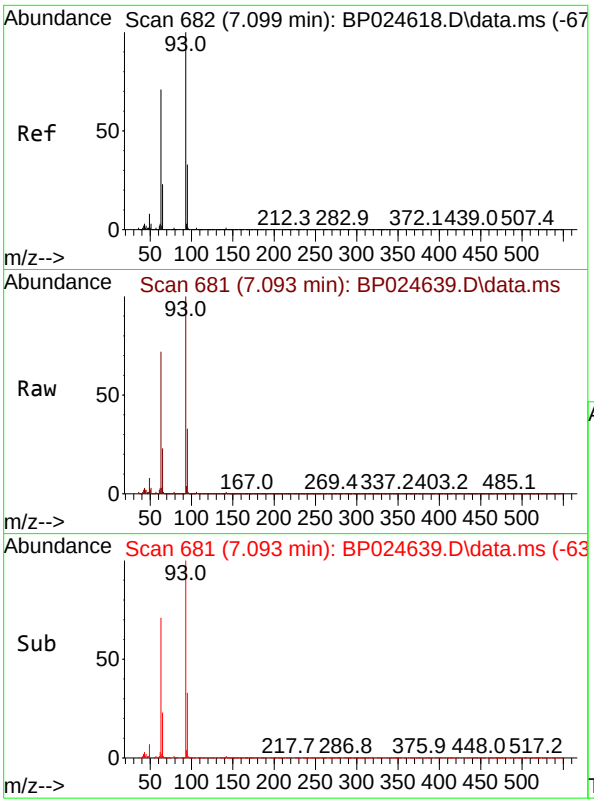


#10
Phenol
Concen: 48.098 ng
RT: 6.881 min Scan# 645
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 94 Resp: 590851

Ion	Ratio	Lower	Upper
94	100		
65	27.7	8.7	48.7
66	38.3	19.4	59.4



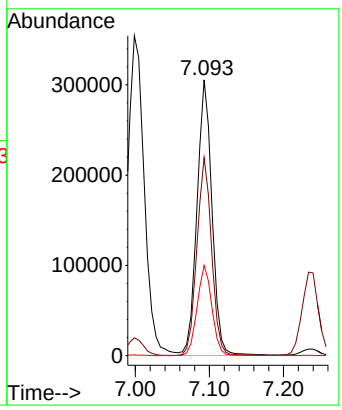


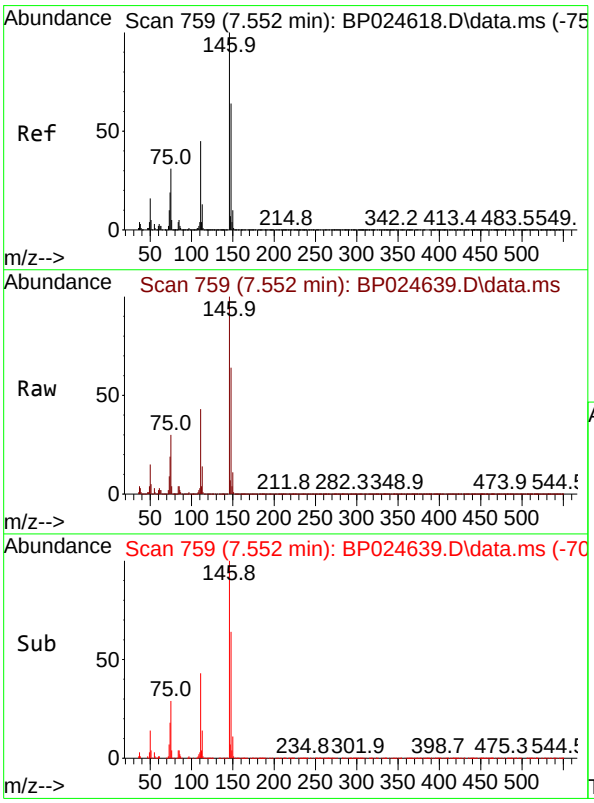
#11
bis(2-Chloroethyl)ether
Concen: 42.599 ng
RT: 7.093 min Scan# 6
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 93 Resp: 429994

Ion	Ratio	Lower	Upper
93	100		
63	71.8	50.6	90.6
95	32.7	12.9	52.9

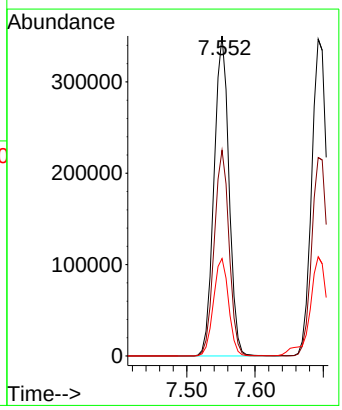


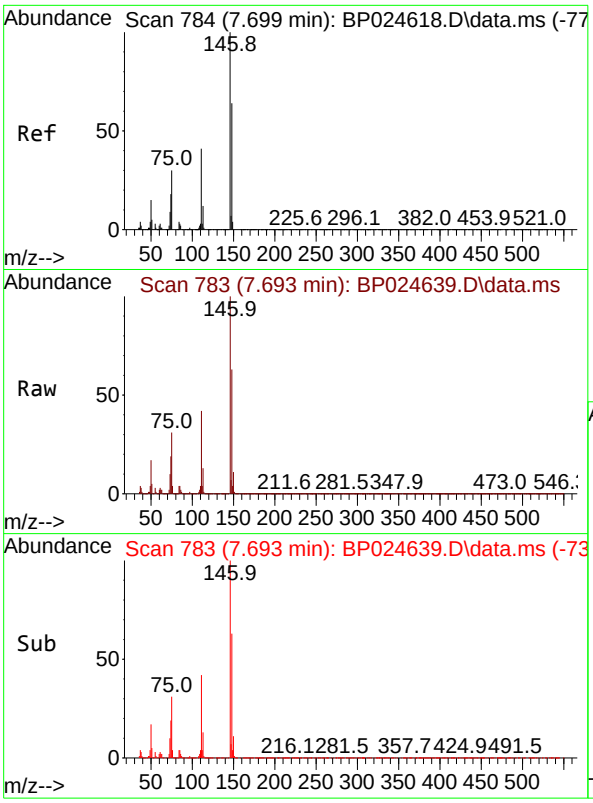


#12
1,3-Dichlorobenzene
Concen: 43.956 ng
RT: 7.552 min Scan# 759
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:146 Resp: 535369

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.4	77.2
75	30.4	25.2	37.8



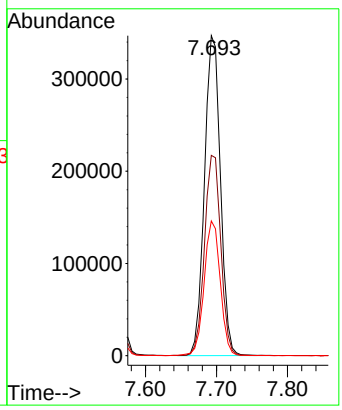


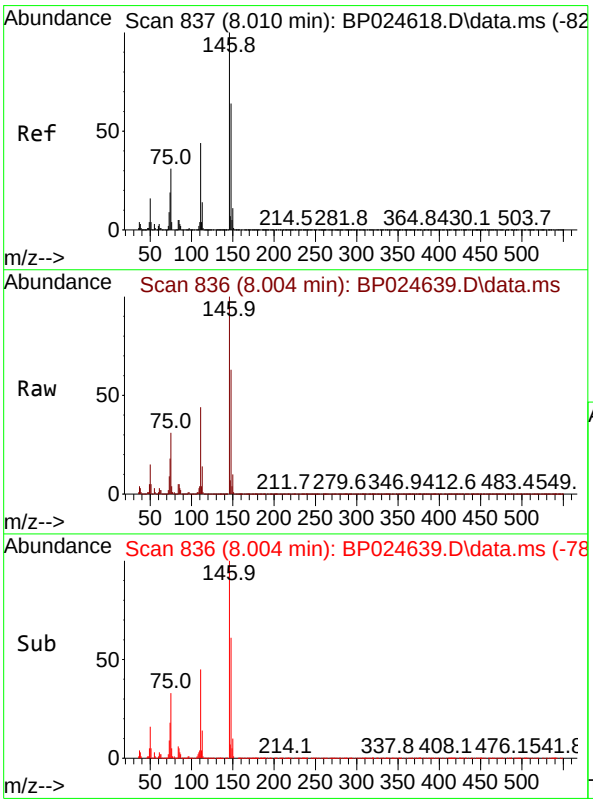
#13
1,4-Dichlorobenzene
Concen: 44.350 ng
RT: 7.693 min Scan# 7
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:146 Resp: 543293

Ion	Ratio	Lower	Upper
146	100		
148	62.6	51.0	76.6
111	42.1	33.0	49.6

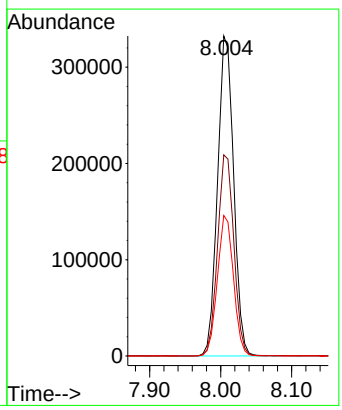


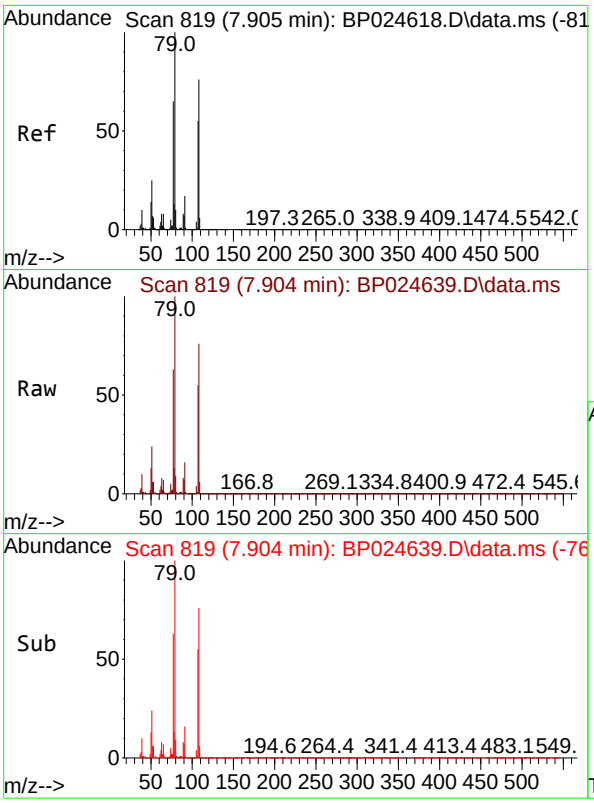


#14
1,2-Dichlorobenzene
Concen: 43.677 ng
RT: 8.004 min Scan# 836
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:146 Resp: 521355

Ion	Ratio	Lower	Upper
146	100		
148	62.9	51.0	76.4
111	43.9	35.2	52.8



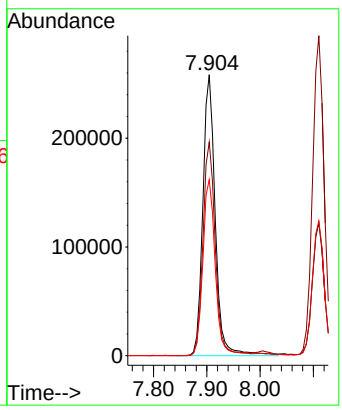


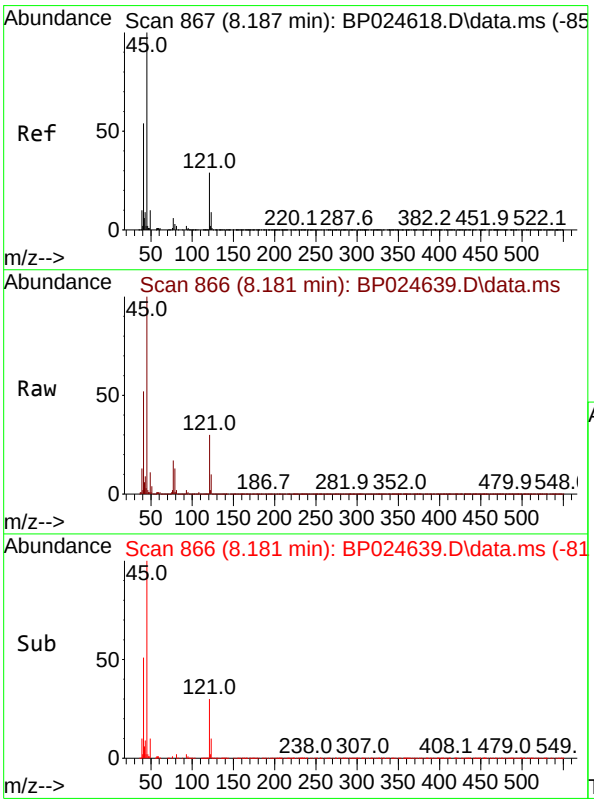
#15
Benzyl Alcohol
Concen: 46.166 ng
RT: 7.904 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 79 Resp: 417550

Ion	Ratio	Lower	Upper
79	100		
108	76.0	60.8	91.2
77	62.6	51.9	77.9

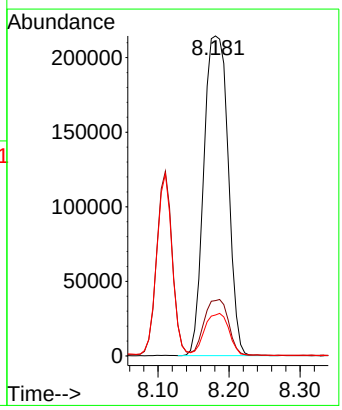


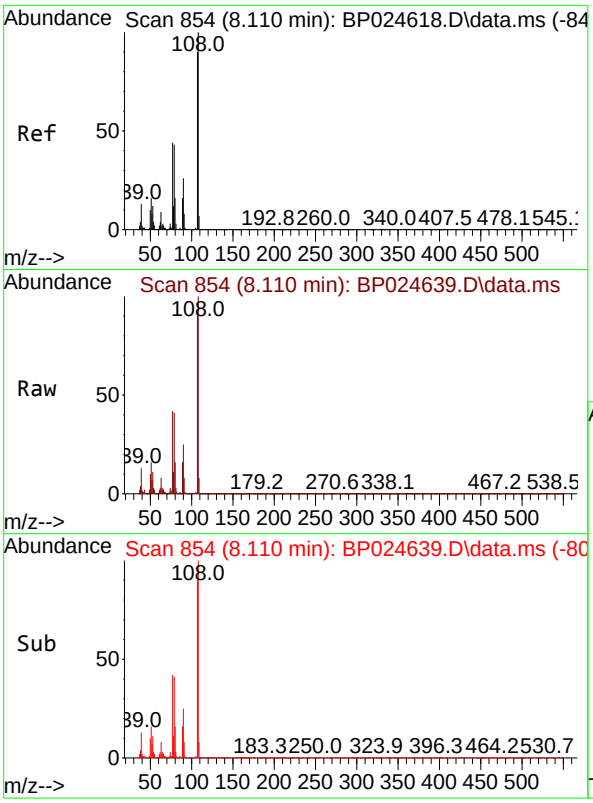


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.990 ng
RT: 8.181 min Scan# 866
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 45 Resp: 507595

Ion	Ratio	Lower	Upper
45	100		
77	17.3	0.0	37.7
79	12.8	0.0	34.0



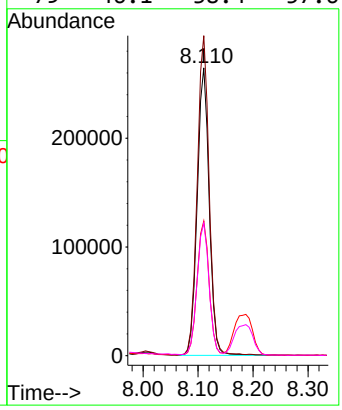


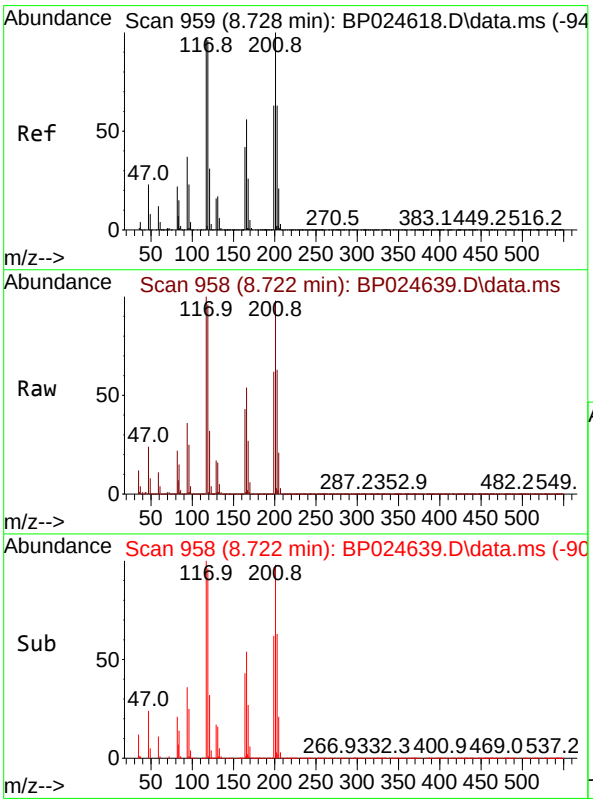
#17
2-Methylphenol
Concen: 45.432 ng
RT: 8.110 min Scan# 8
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:107 Resp: 400289

Ion	Ratio	Lower	Upper
107	100		
108	111.1	88.9	133.3
77	46.8	39.0	58.6
79	46.1	38.4	57.6

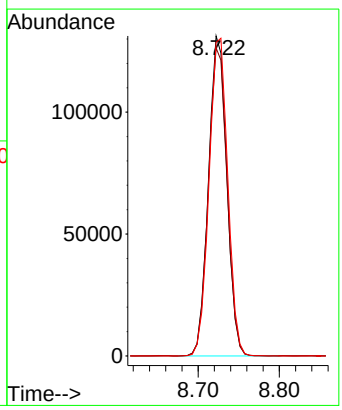


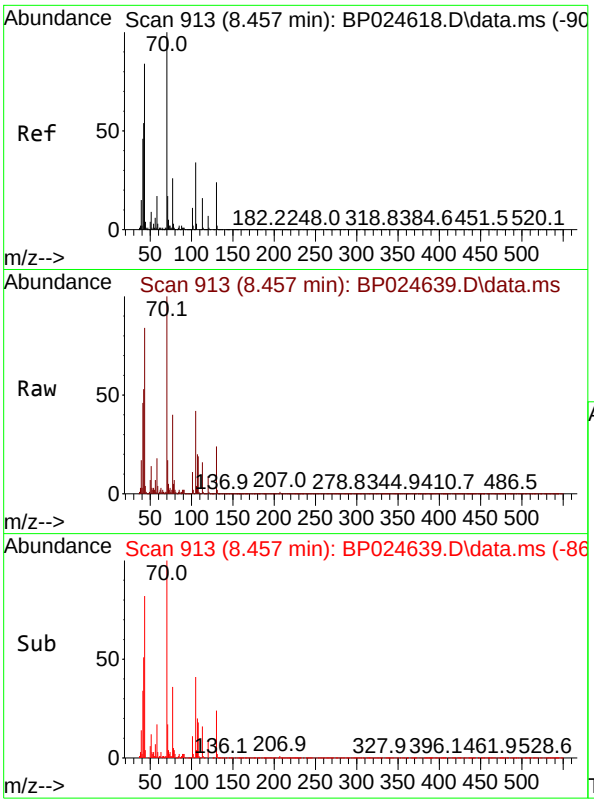


#18
Hexachloroethane
Concen: 43.881 ng
RT: 8.722 min Scan# 958
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:117 Resp: 205990

Ion	Ratio	Lower	Upper
117	100		
119	96.3	79.4	119.0
201	98.0	82.7	124.1



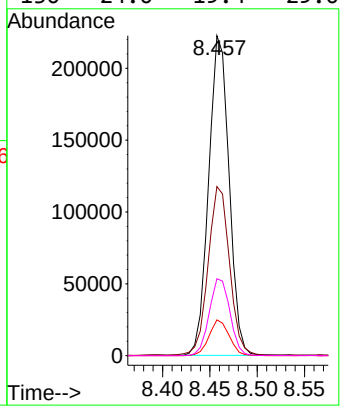


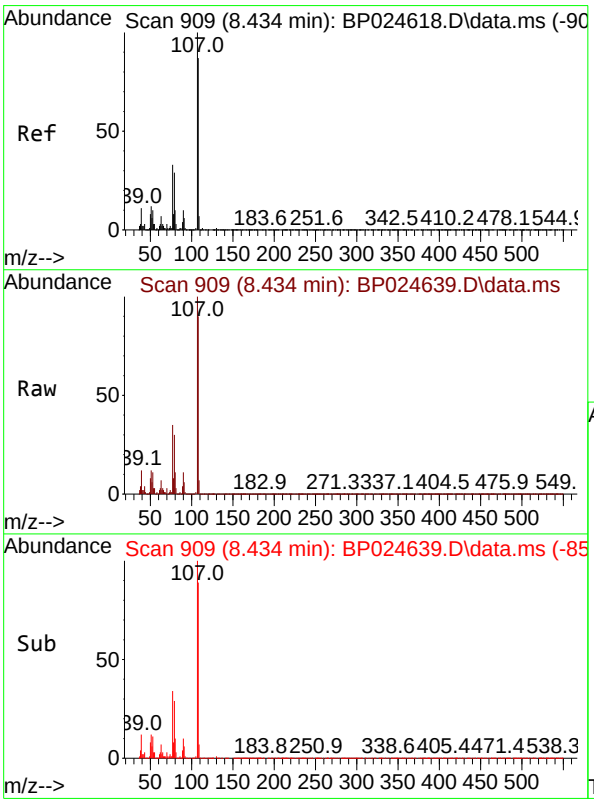
#19
n-Nitroso-di-n-propylamine
Concen: 40.611 ng
RT: 8.457 min Scan# 91
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 70 Resp: 334353

Ion	Ratio	Lower	Upper
70	100		
42	52.8	43.0	64.6
101	11.2	8.7	13.1
130	24.0	19.4	29.0

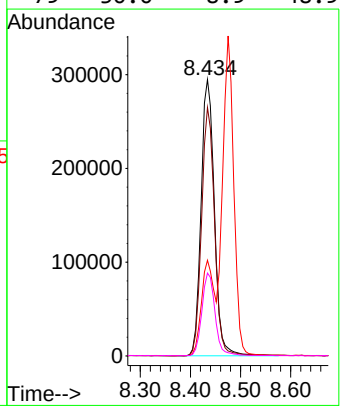


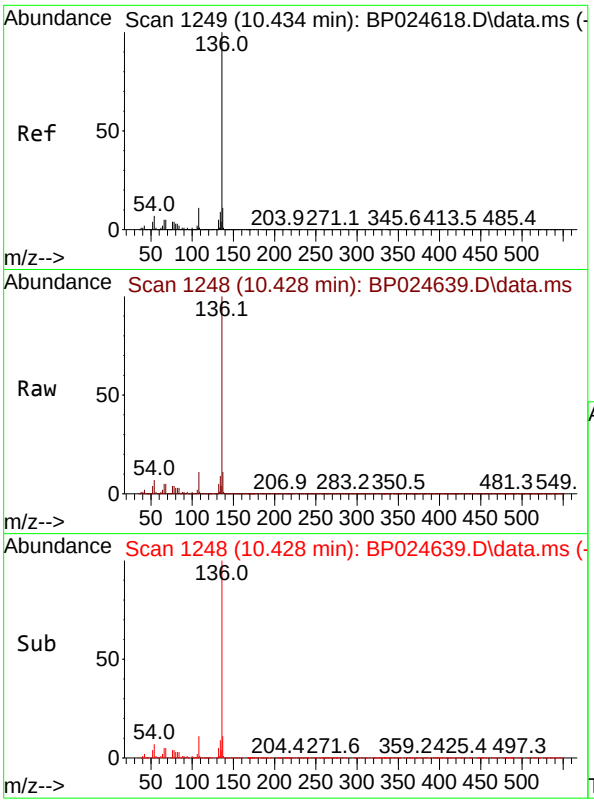


#20
3+4-Methylphenols
Concen: 45.290 ng
RT: 8.434 min Scan# 909
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:107 Resp: 542791

Ion	Ratio	Lower	Upper
107	100		
108	89.9	66.7	106.7
77	34.6	13.1	53.1
79	30.0	8.9	48.9



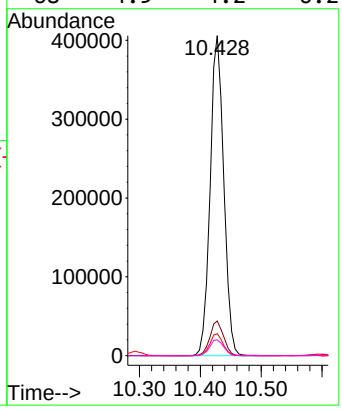


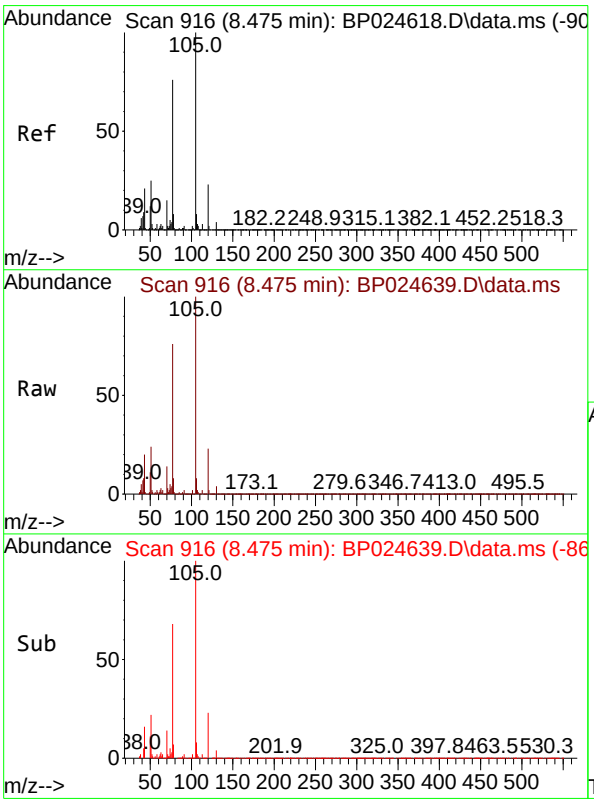
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.428 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:136 Resp: 628820

Ion	Ratio	Lower	Upper
136	100		
137	10.8	8.8	13.2
54	6.9	5.5	8.3
68	4.9	4.2	6.2

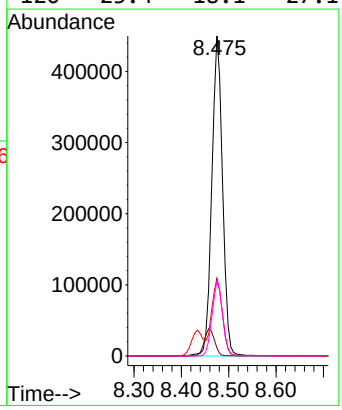


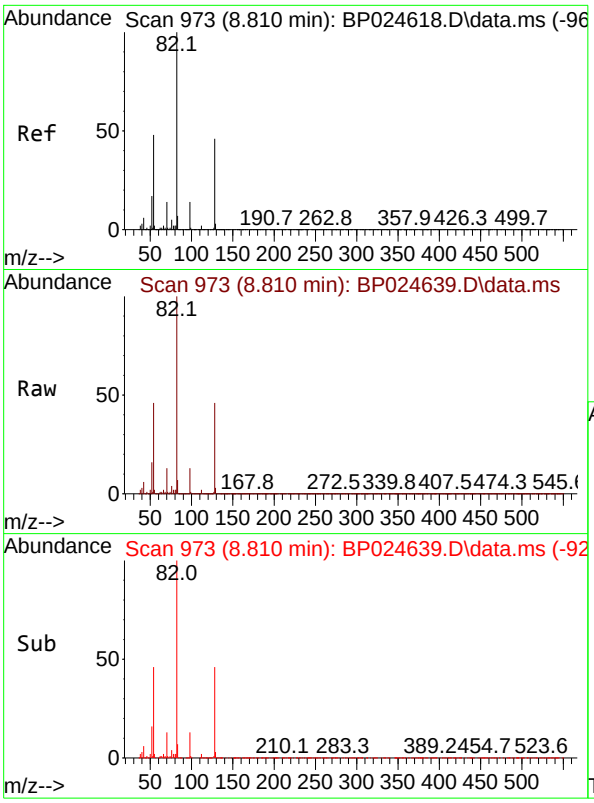


#22
Acetophenone
Concen: 45.082 ng
RT: 8.475 min Scan# 916
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:105 Resp: 708122

Ion	Ratio	Lower	Upper
105	100		
71	2.5	2.0	3.0
51	24.3	20.4	30.6
120	23.4	18.1	27.1



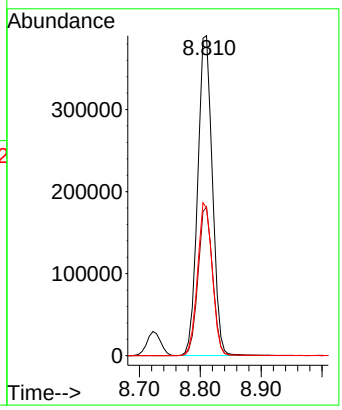


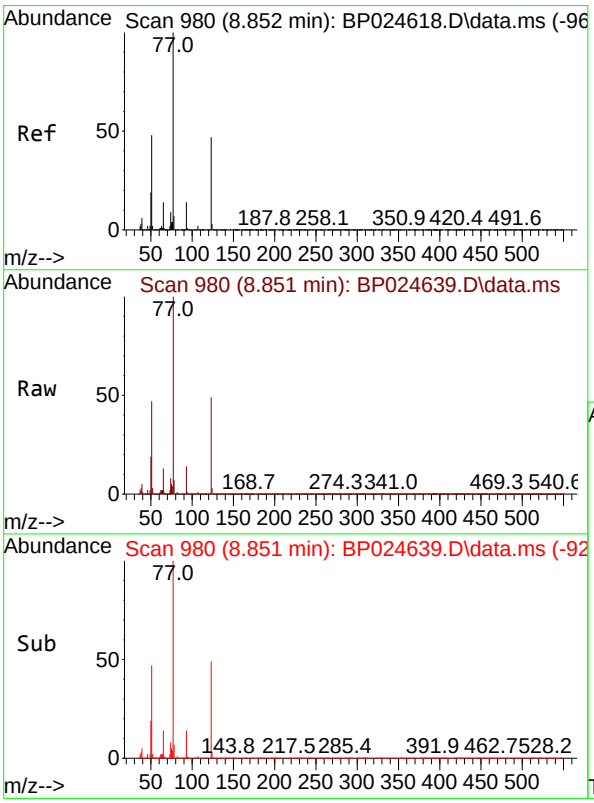
#23
Nitrobenzene-d5
Concen: 52.388 ng
RT: 8.810 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 82 Resp: 651986

Ion	Ratio	Lower	Upper
82	100		
128	46.5	37.0	55.4
54	46.1	38.7	58.1

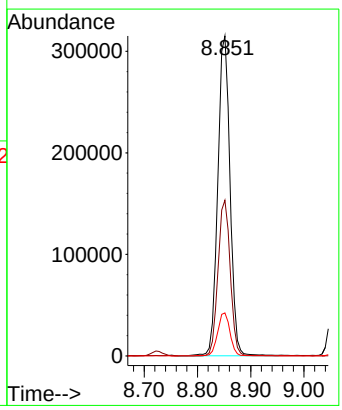


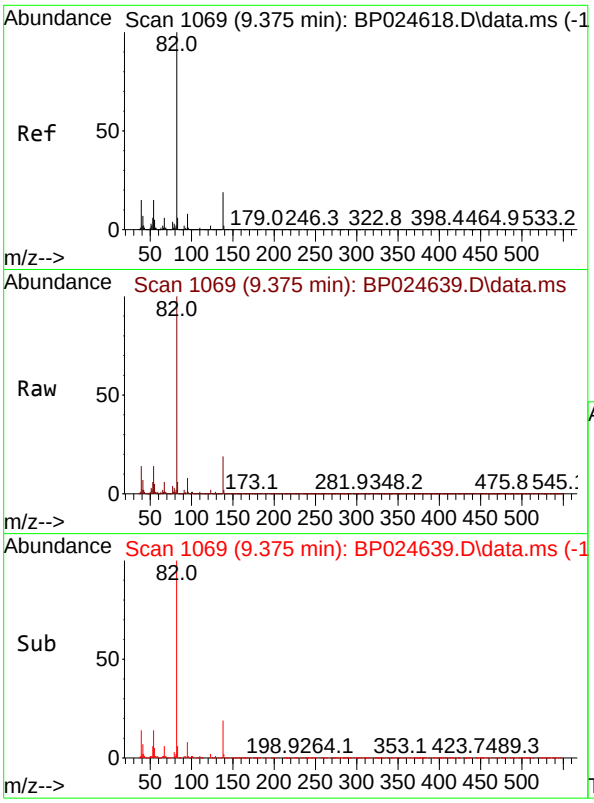


#24
Nitrobenzene
Concen: 45.690 ng
RT: 8.851 min Scan# 980
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 77 Resp: 500401

Ion	Ratio	Lower	Upper
77	100		
123	48.7	37.4	56.0
65	13.5	11.3	16.9



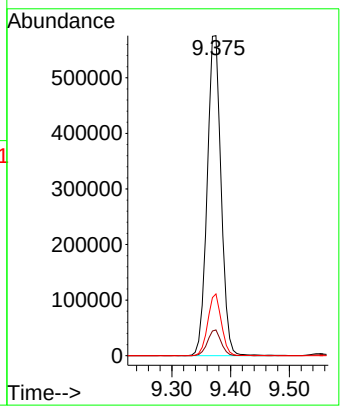


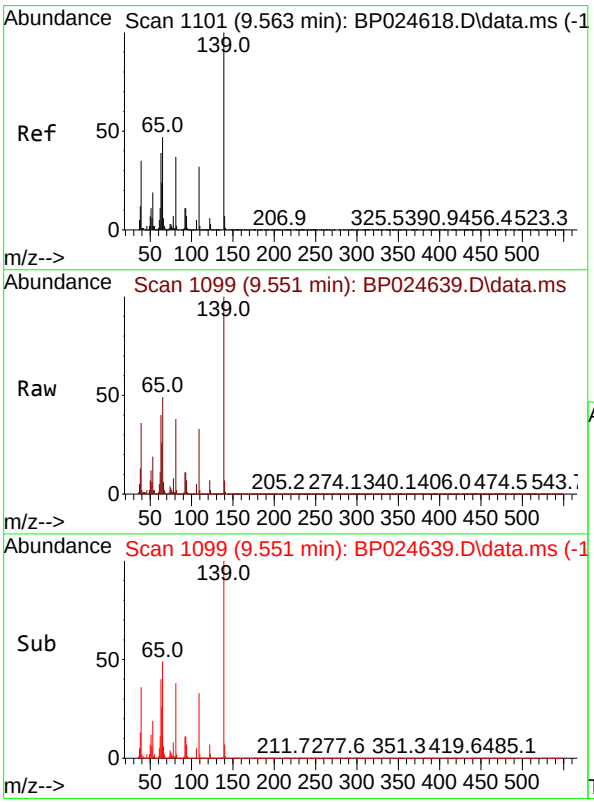
#25
Isophorone
Concen: 43.827 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 82 Resp: 946143

Ion	Ratio	Lower	Upper
82	100		
95	8.0	6.3	9.5
138	19.3	15.3	22.9

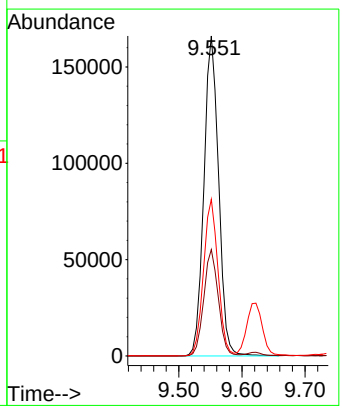


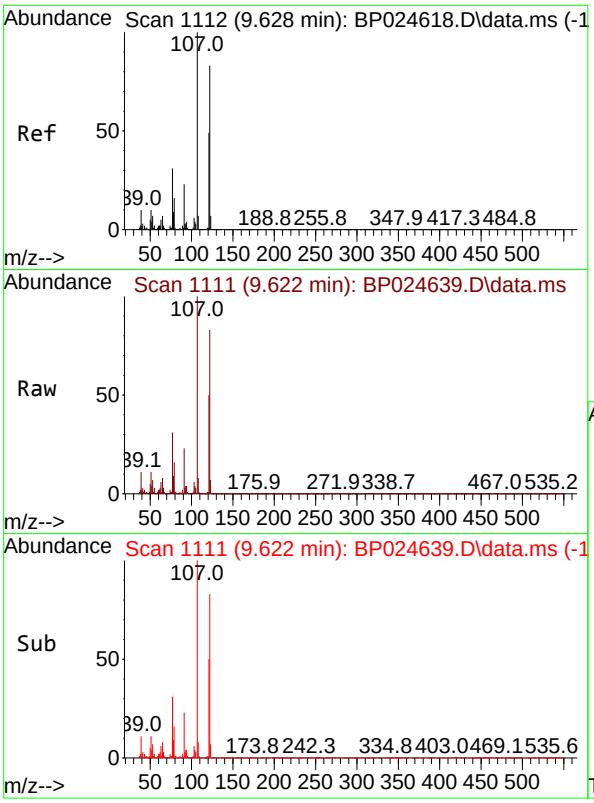


#26
2-Nitrophenol
Concen: 50.048 ng
RT: 9.551 min Scan# 1099
Delta R.T. -0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:139 Resp: 268593

Ion	Ratio	Lower	Upper
139	100		
109	33.2	25.9	38.9
65	48.9	37.9	56.9



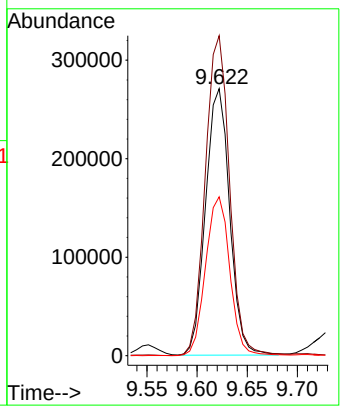


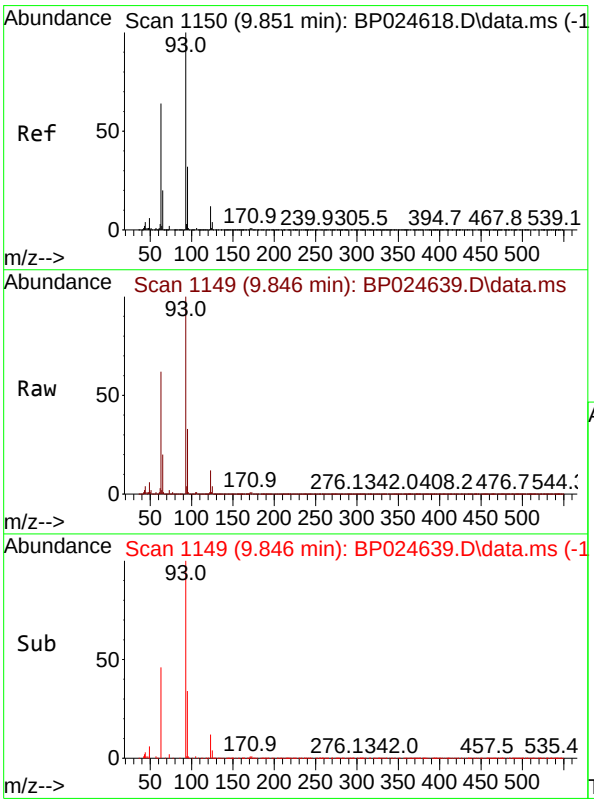
#27
2,4-Dimethylphenol
Concen: 47.982 ng
RT: 9.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:122 Resp: 454005

Ion	Ratio	Lower	Upper
122	100		
107	119.8	96.2	144.2
121	59.5	47.6	71.4

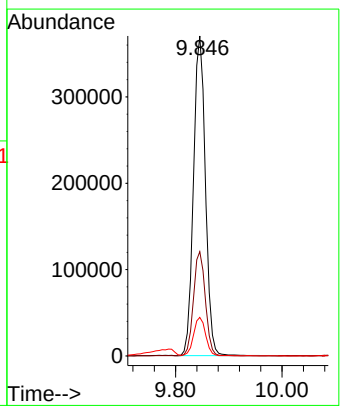


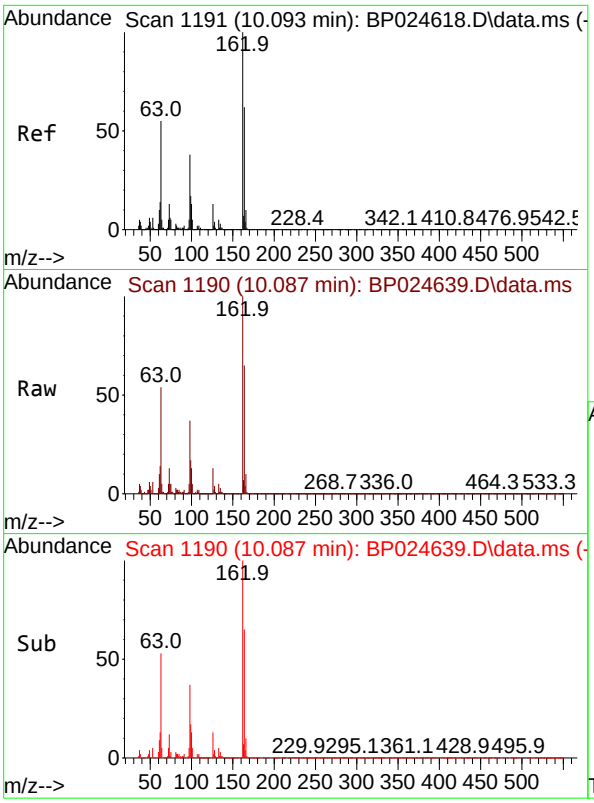


#28
bis(2-Chloroethoxy)methane
Concen: 44.702 ng
RT: 9.846 min Scan# 1149
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 93 Resp: 576552

Ion	Ratio	Lower	Upper
93	100		
95	32.6	25.5	38.3
123	12.1	9.7	14.5



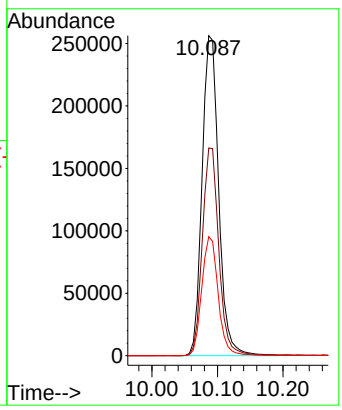


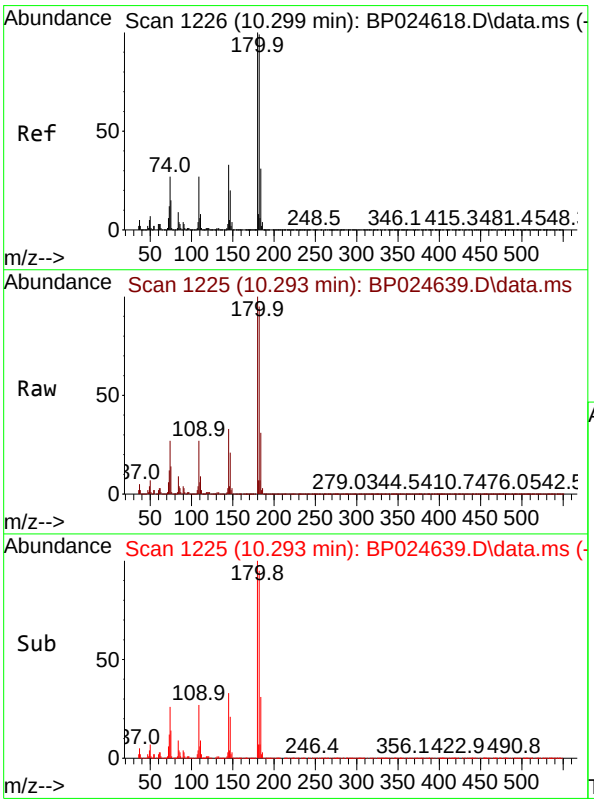
#29
2,4-Dichlorophenol
Concen: 49.275 ng
RT: 10.087 min Scan# 11
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:162 Resp: 451816

Ion	Ratio	Lower	Upper
162	100		
164	64.9	42.3	82.3
98	37.2	18.4	58.4

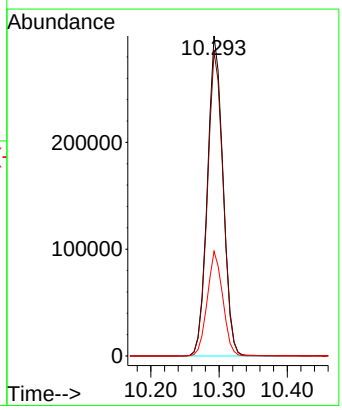


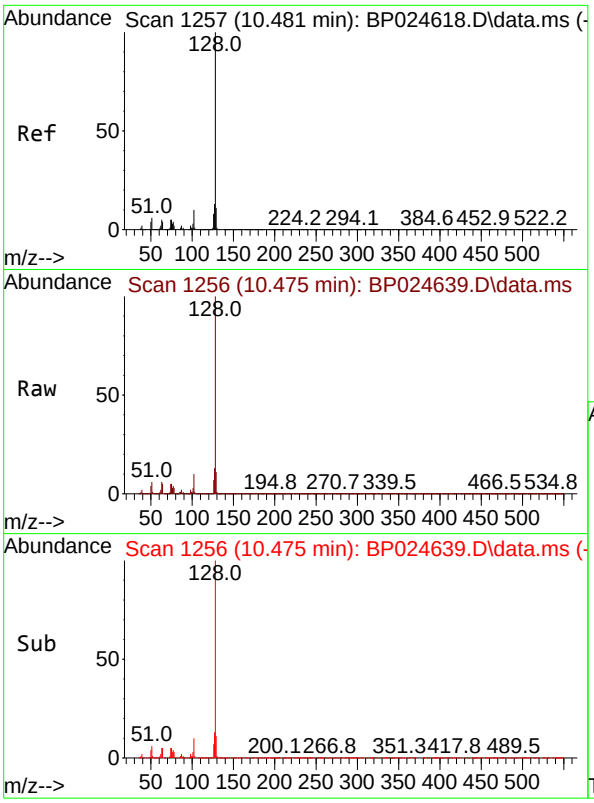


#30
1,2,4-Trichlorobenzene
Concen: 46.177 ng
RT: 10.293 min Scan# 1225
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:180 Resp: 477127

Ion	Ratio	Lower	Upper
180	100		
182	95.1	79.0	118.4
145	32.7	26.6	39.8



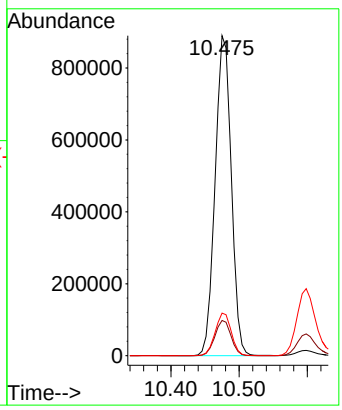


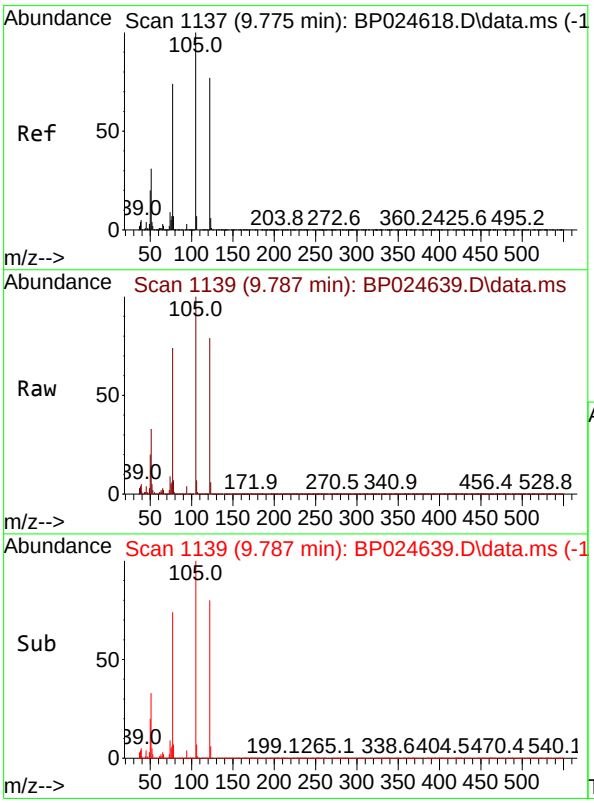
#31
Naphthalene
Concen: 45.043 ng
RT: 10.475 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:128 Resp: 1467759

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	13.3	10.7	16.1

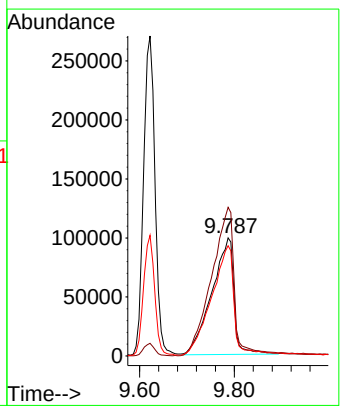


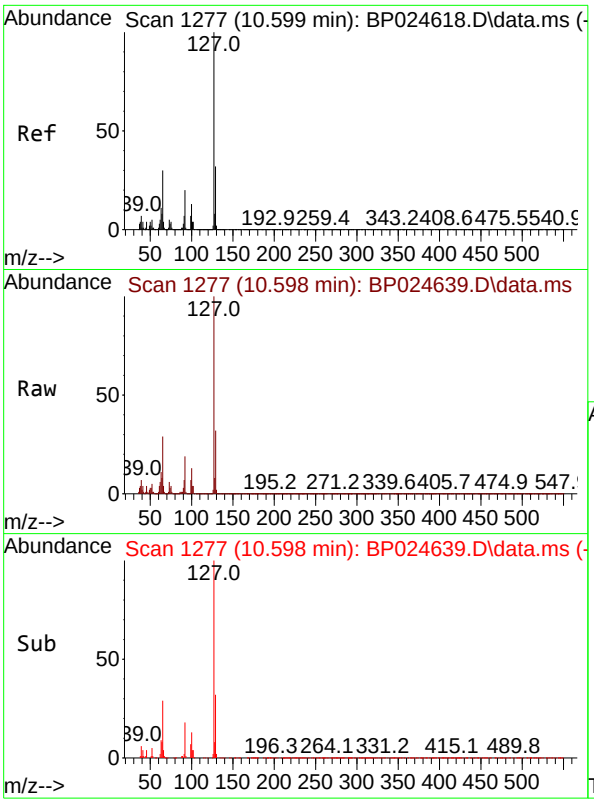


#32
Benzoic acid
Concen: 48.835 ng
RT: 9.787 min Scan# 1139
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:122 Resp: 322696

Ion	Ratio	Lower	Upper
122	100		
105	125.8	106.9	146.9
77	93.3	75.1	115.1



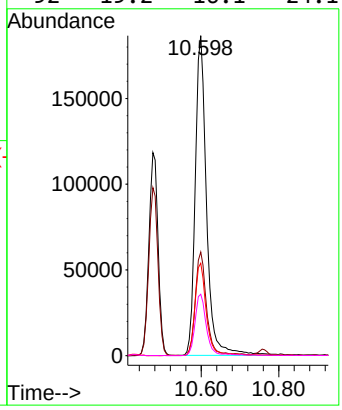


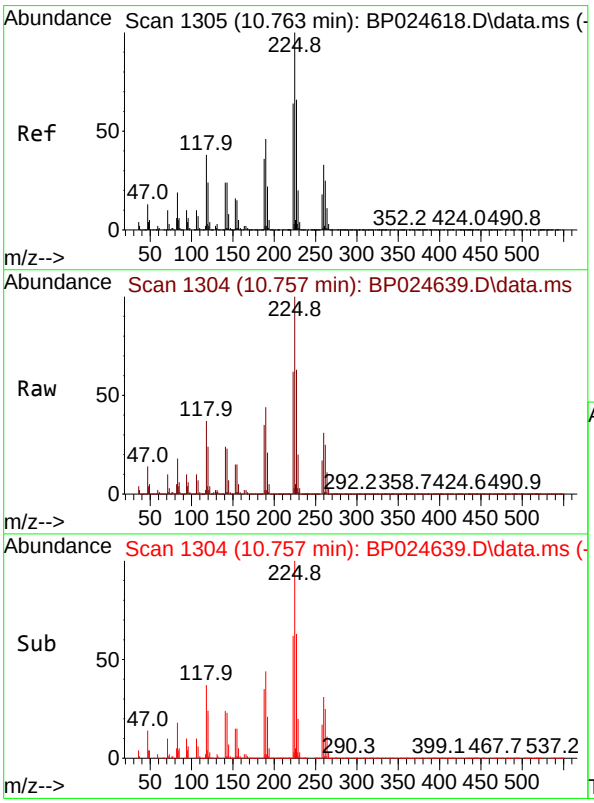
#33
4-Chloroaniline
Concen: 28.739 ng
RT: 10.598 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:127 Resp: 377895

Ion	Ratio	Lower	Upper
127	100		
129	32.4	25.8	38.6
65	28.9	23.9	35.9
92	19.2	16.1	24.1

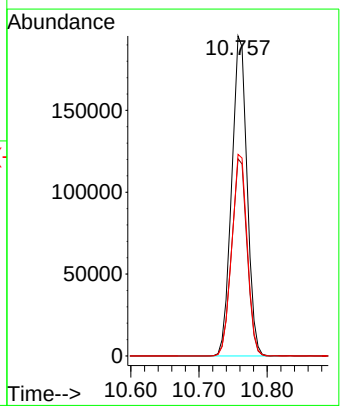


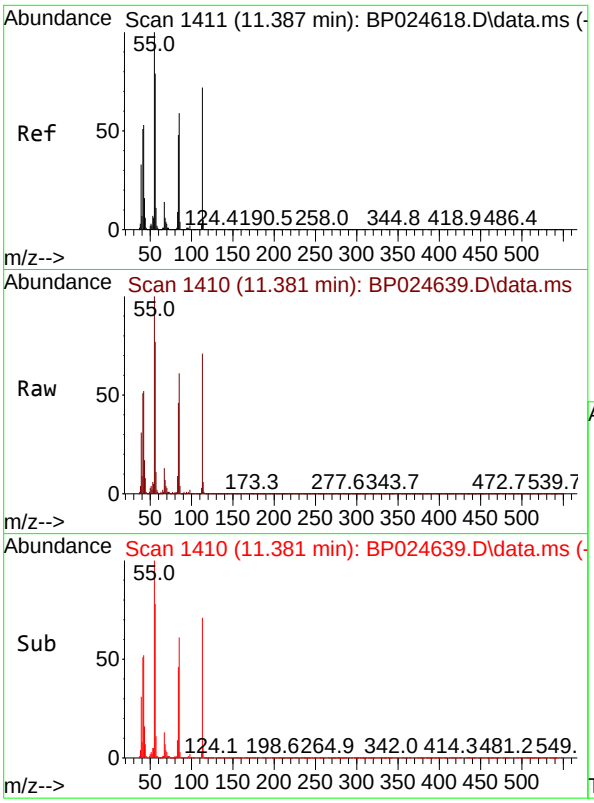


#34
Hexachlorobutadiene
Concen: 45.710 ng
RT: 10.757 min Scan# 1304
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:225 Resp: 305965

Ion	Ratio	Lower	Upper
225	100		
223	61.6	51.0	76.6
227	63.0	53.1	79.7



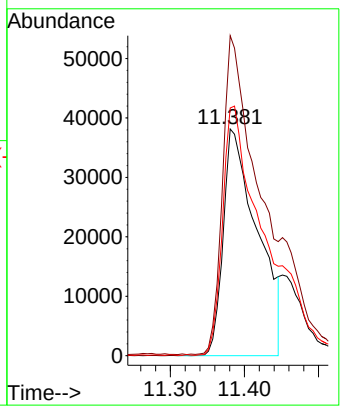


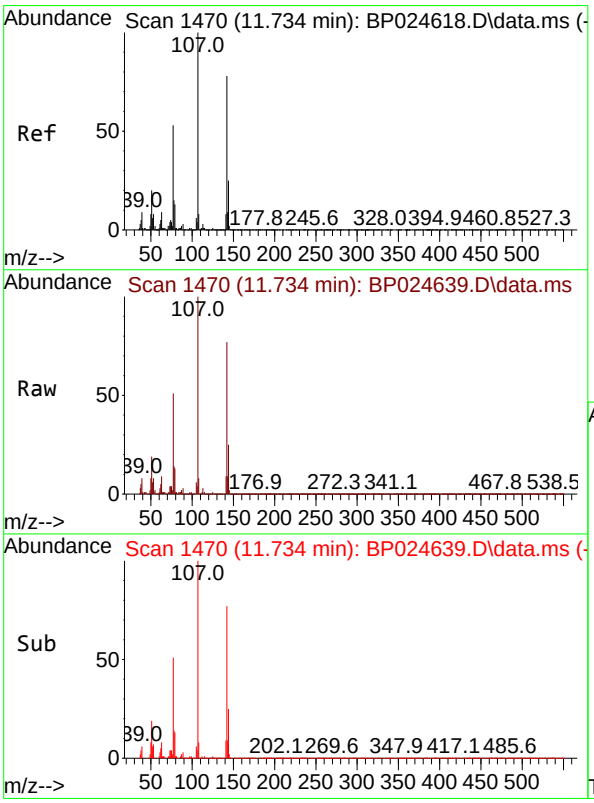
#35
Caprolactam
Concen: 36.798 ng
RT: 11.381 min Scan# 14
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:113 Resp: 122074

Ion	Ratio	Lower	Upper
113	100		
55	141.1	119.0	159.0
56	109.3	90.3	130.3

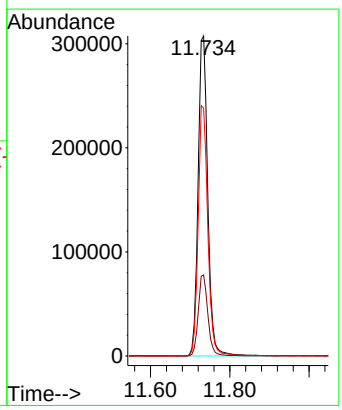


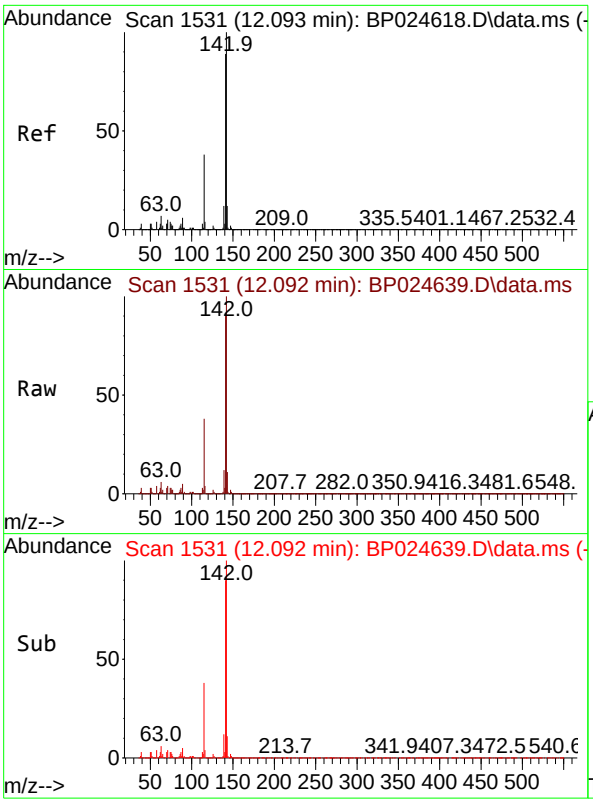


#36
4-Chloro-3-methylphenol
Concen: 46.339 ng
RT: 11.734 min Scan# 1470
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:107 Resp: 518151

Ion	Ratio	Lower	Upper
107	100		
144	25.3	20.1	30.1
142	77.4	62.1	93.1



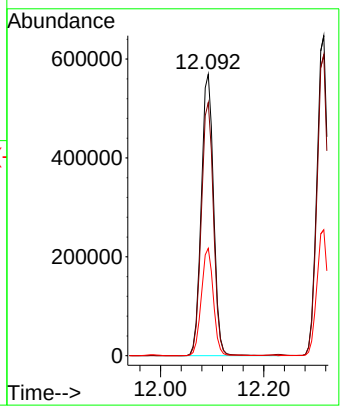


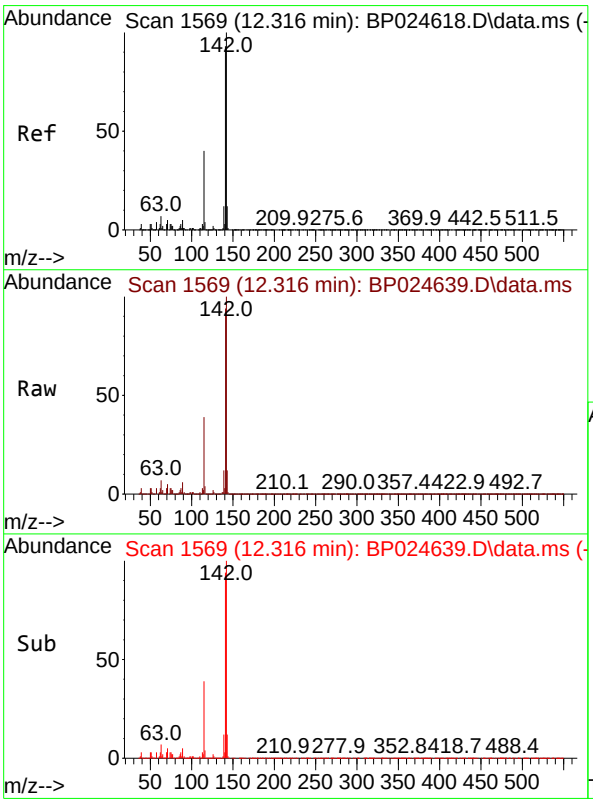
#37
2-Methylnaphthalene
Concen: 44.452 ng
RT: 12.092 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:142 Resp: 937935

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.2	106.8
115	38.2	30.6	46.0

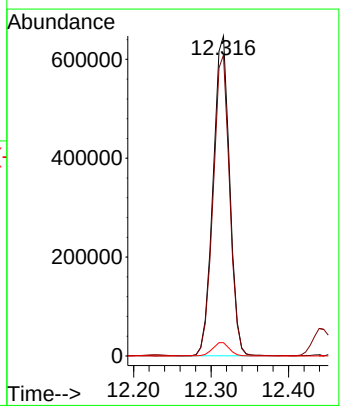


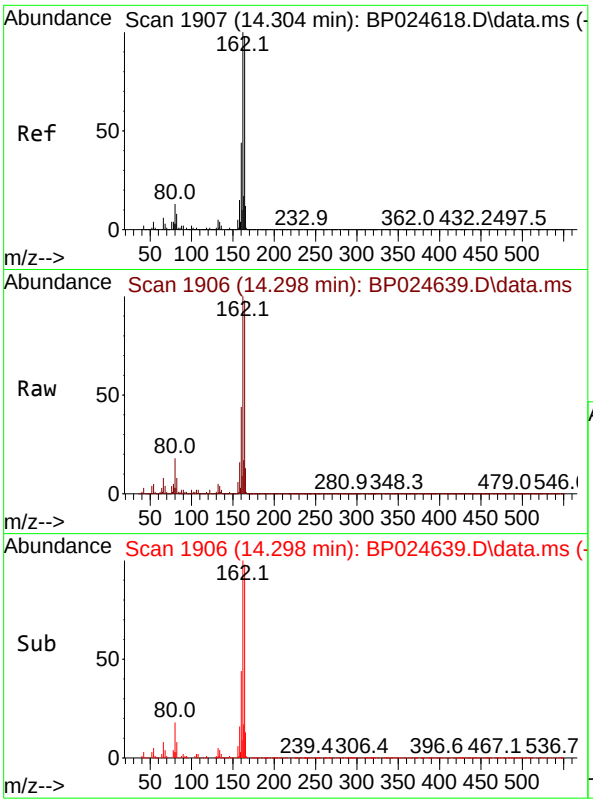


#38
1-Methylnaphthalene
Concen: 42.496 ng
RT: 12.316 min Scan# 1569
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:142 Resp: 959403

Ion	Ratio	Lower	Upper
142	100		
141	94.1	74.7	112.1
116	4.2	3.4	5.2



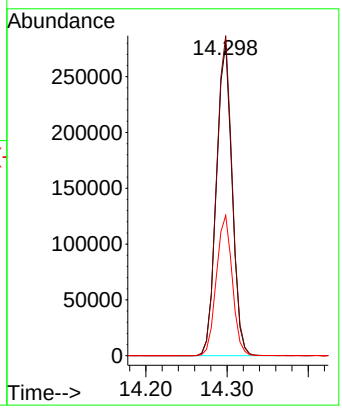


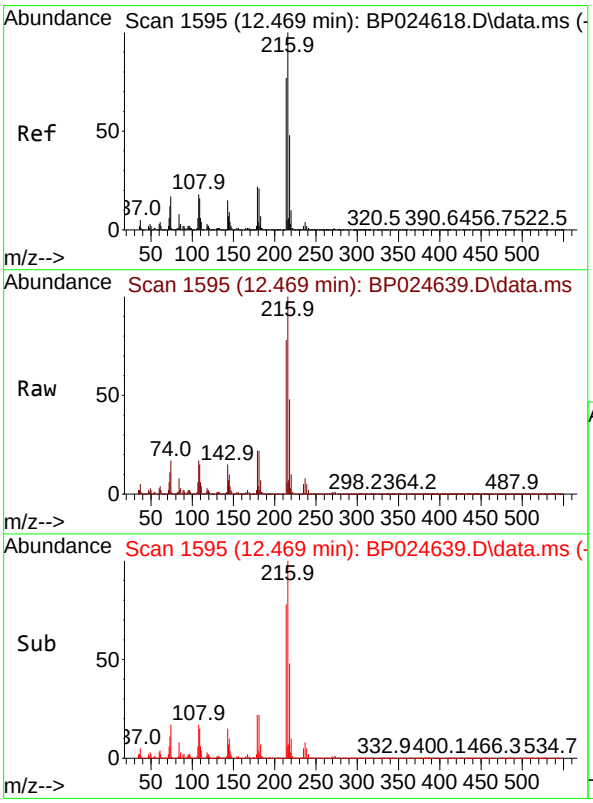
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:164 Resp: 375530

Ion	Ratio	Lower	Upper
164	100		
162	102.5	81.8	122.6
160	44.9	36.3	54.5

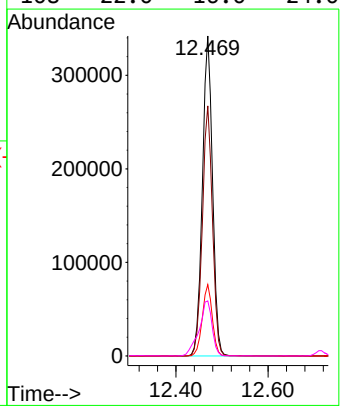


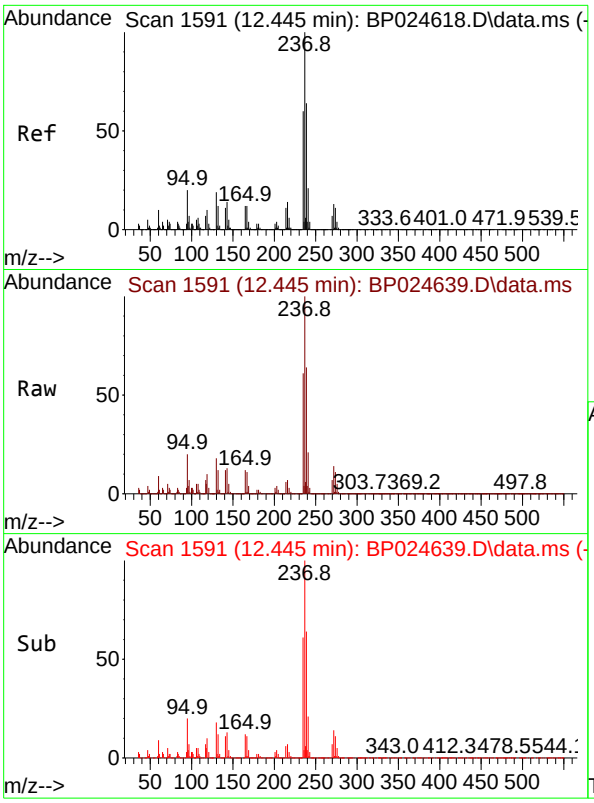


#40
1,2,4,5-Tetrachlorobenzene
Concen: 48.245 ng
RT: 12.469 min Scan# 1595
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:216 Resp: 526111

Ion	Ratio	Lower	Upper
216	100		
214	78.2	62.3	93.5
179	22.1	17.7	26.5
108	22.0	16.0	24.0



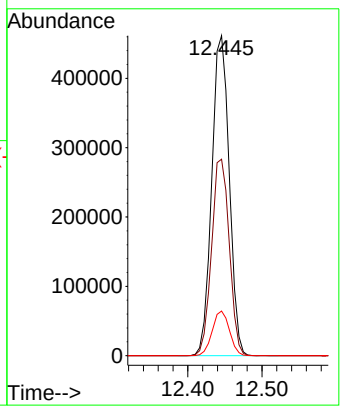


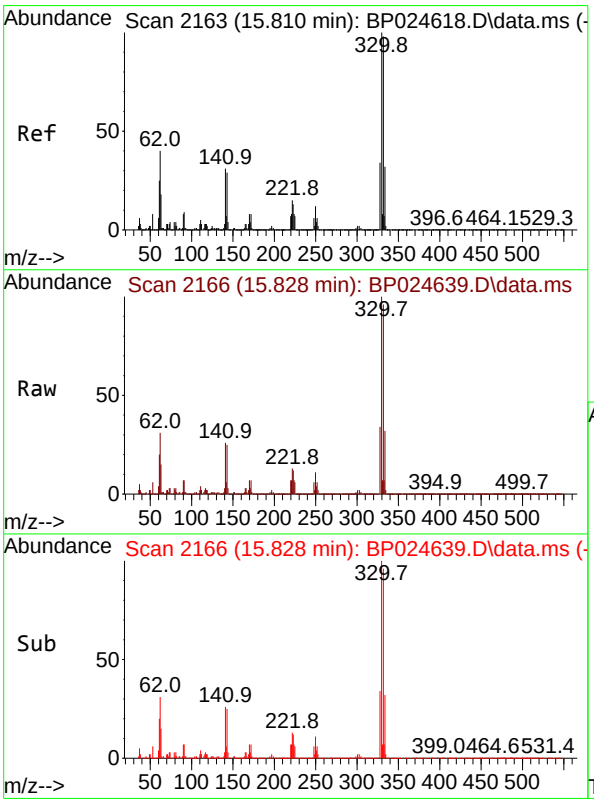
#41
Hexachlorocyclopentadiene
Concen: 113.935 ng
RT: 12.445 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:237 Resp: 753385

Ion	Ratio	Lower	Upper
237	100		
235	61.4	39.9	79.9
272	14.0	0.0	33.2

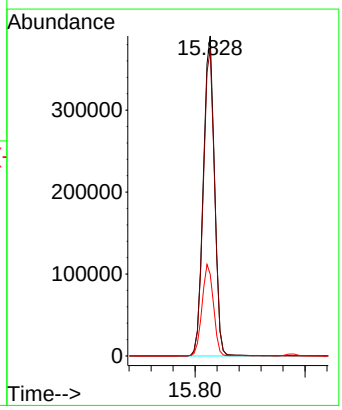


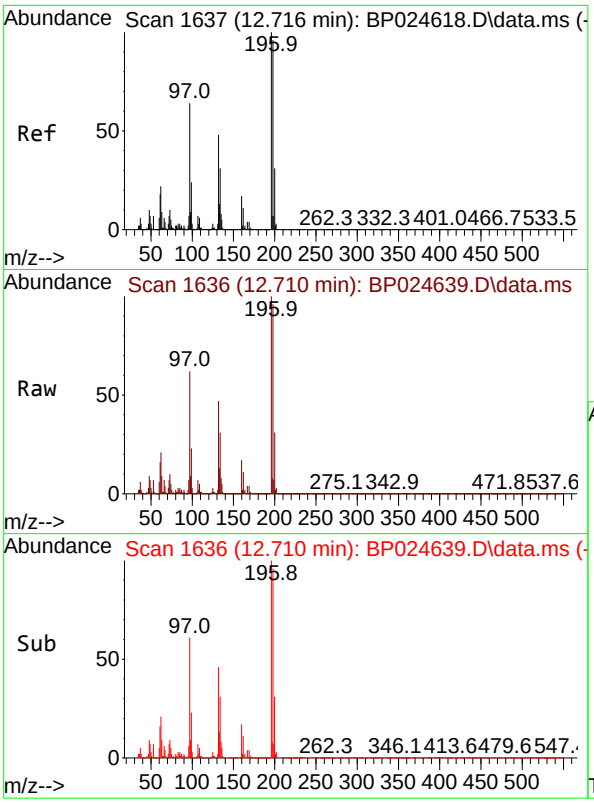


#42
2,4,6-Tribromophenol
Concen: 86.542 ng
RT: 15.828 min Scan# 2166
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:330 Resp: 550955

Ion	Ratio	Lower	Upper
330	100		
332	96.5	78.2	117.4
141	29.1	24.3	36.5



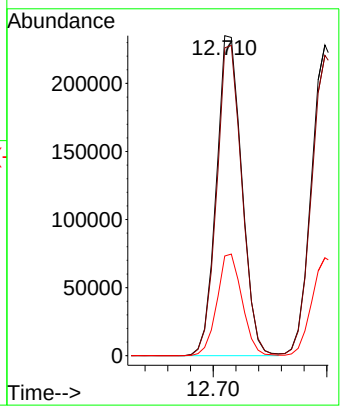


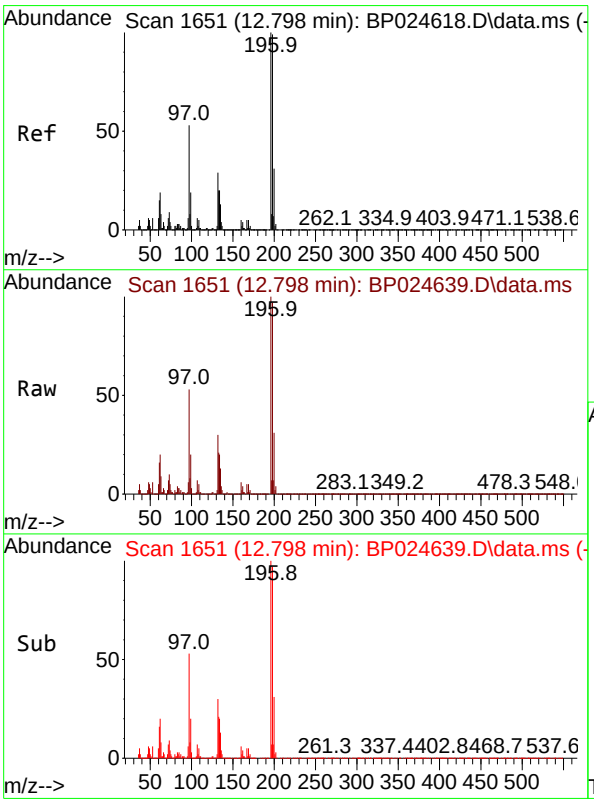
#43
2,4,6-Trichlorophenol
Concen: 51.868 ng
RT: 12.710 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:196 Resp: 366355

Ion	Ratio	Lower	Upper
196	100		
198	96.2	76.9	115.3
200	31.1	25.2	37.8

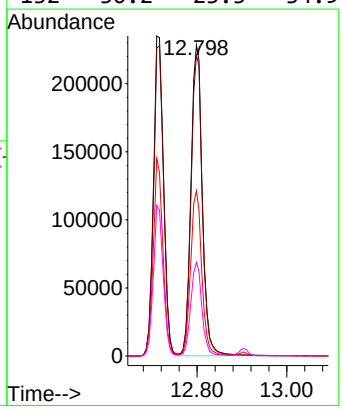


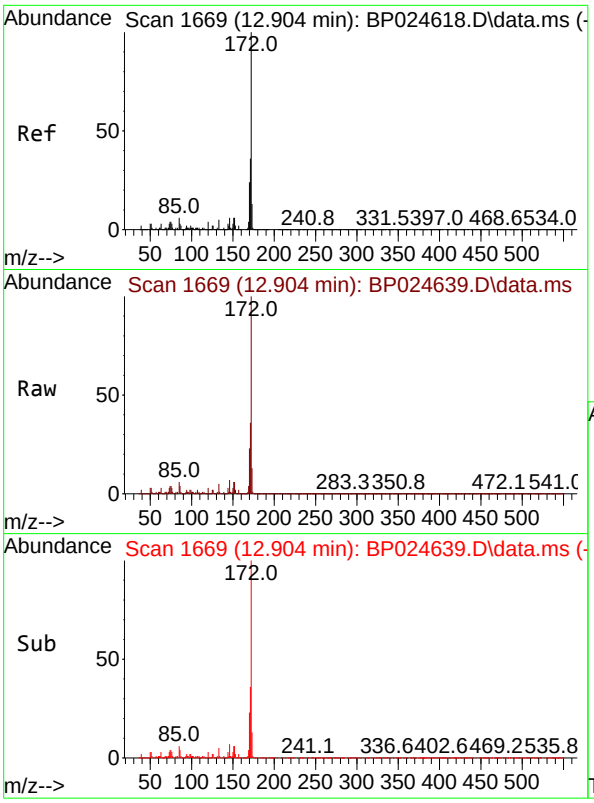


#44
2,4,5-Trichlorophenol
Concen: 50.924 ng
RT: 12.798 min Scan# 1651
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:196 Resp: 400383

Ion	Ratio	Lower	Upper
196	100		
198	96.7	79.2	118.8
97	53.1	42.3	63.5
132	30.2	23.3	34.9



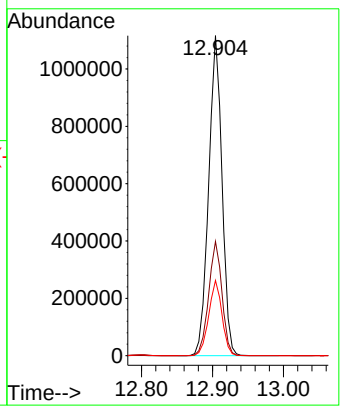


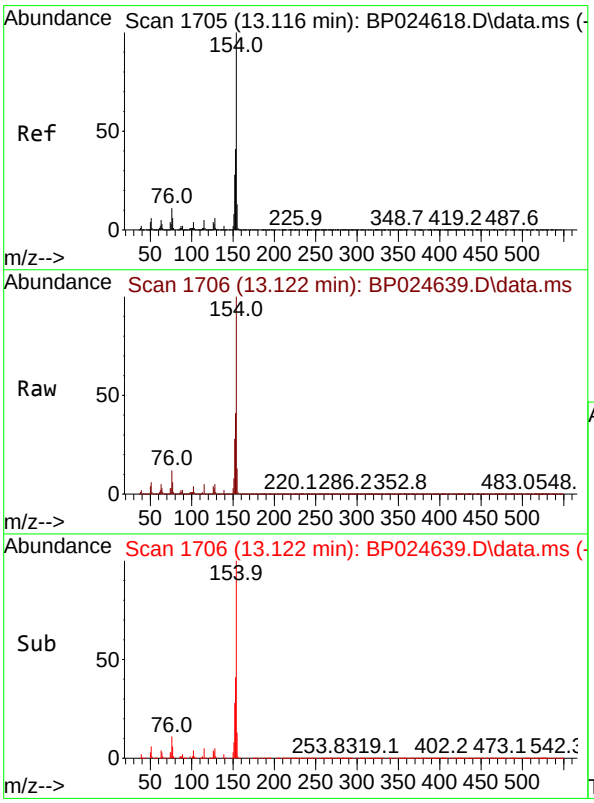
#45
2-Fluorobiphenyl
Concen: 50.869 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:172 Resp: 1458091

Ion	Ratio	Lower	Upper
172	100		
171	35.7	28.8	43.2
170	23.5	18.8	28.2

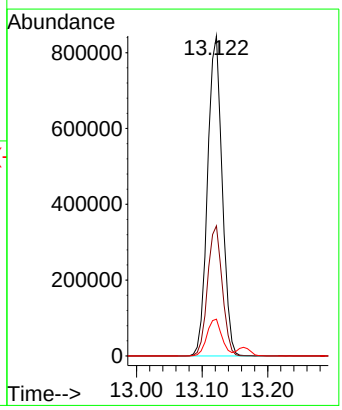


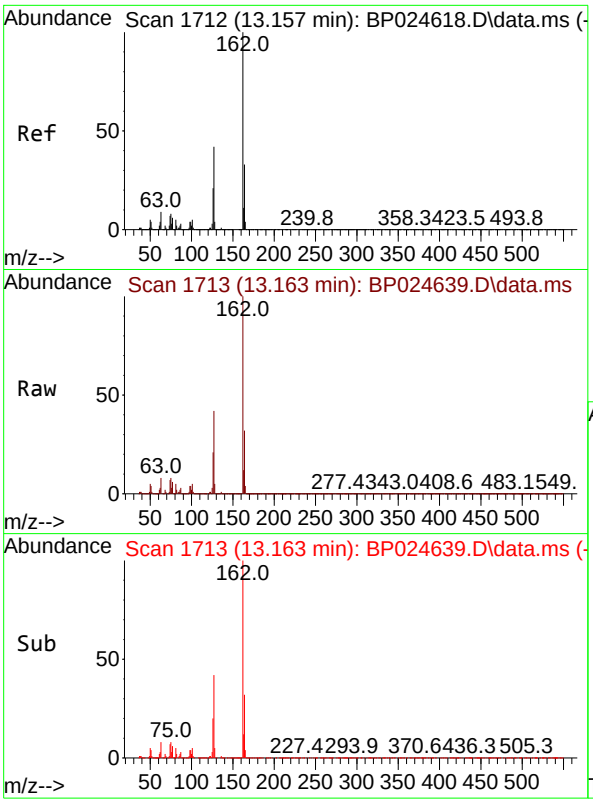


#46
1,1'-Biphenyl
Concen: 46.972 ng
RT: 13.122 min Scan# 1706
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:154 Resp: 1303750

Ion	Ratio	Lower	Upper
154	100		
153	40.6	21.0	61.0
76	11.5	0.0	31.5



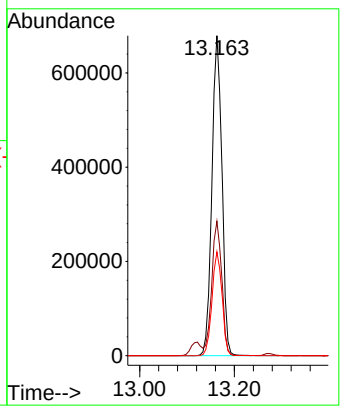


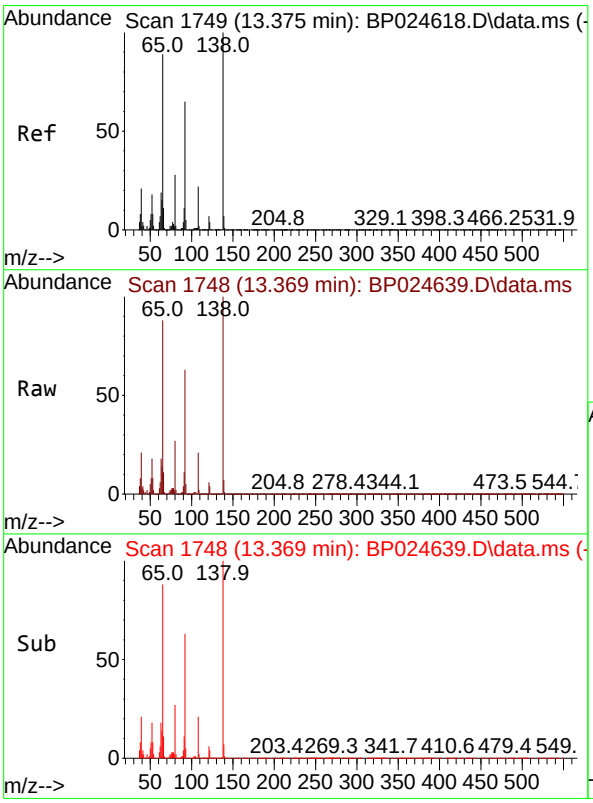
#47
2-Chloronaphthalene
Concen: 47.093 ng
RT: 13.163 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:162 Resp: 996633

Ion	Ratio	Lower	Upper
162	100		
127	42.0	33.8	50.6
164	32.5	26.0	39.0

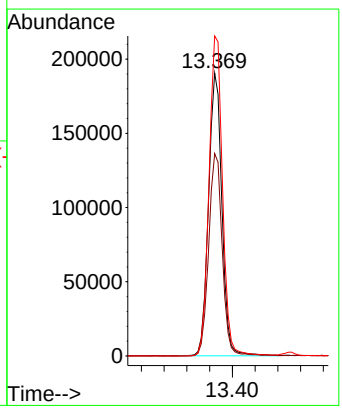


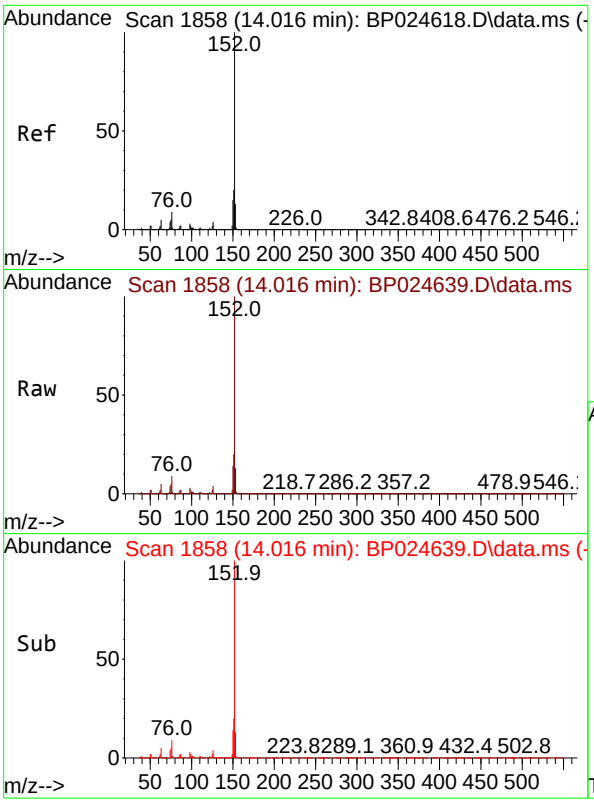


#48
2-Nitroaniline
Concen: 49.562 ng
RT: 13.369 min Scan# 1748
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion: 65 Resp: 310532

Ion	Ratio	Lower	Upper
65	100		
92	71.6	58.7	88.1
138	113.1	90.2	135.2



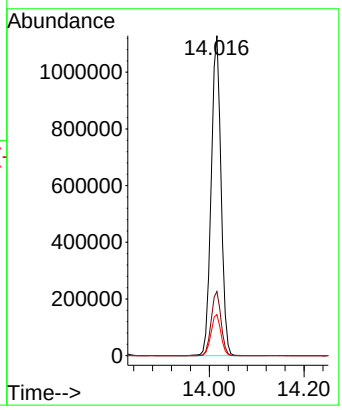


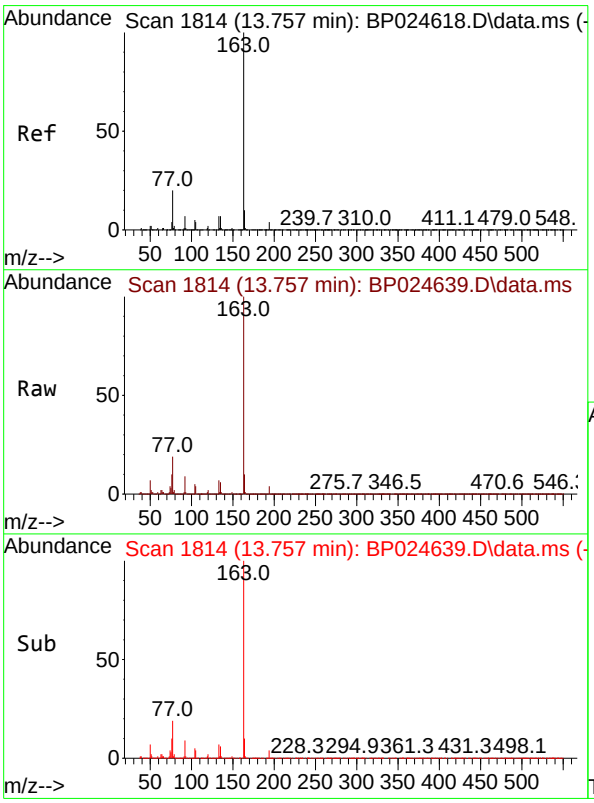
#49
Acenaphthylene
Concen: 45.817 ng
RT: 14.016 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:152 Resp: 1622651

Ion	Ratio	Lower	Upper
152	100		
151	20.0	16.2	24.4
153	12.9	10.2	15.4

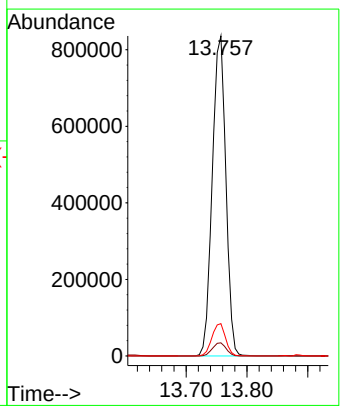


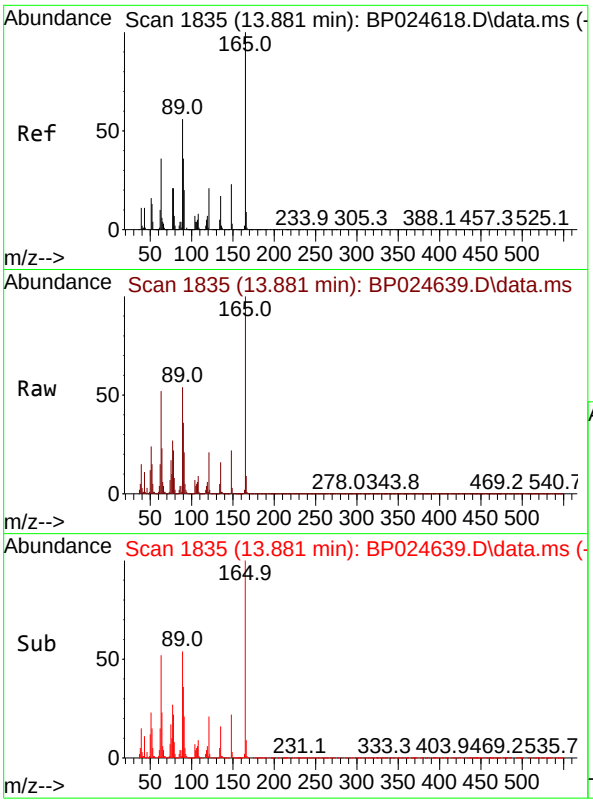


#50
Dimethylphthalate
Concen: 45.149 ng
RT: 13.757 min Scan# 1814
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:163 Resp: 1292316

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.4	5.0
164	10.1	8.1	12.1



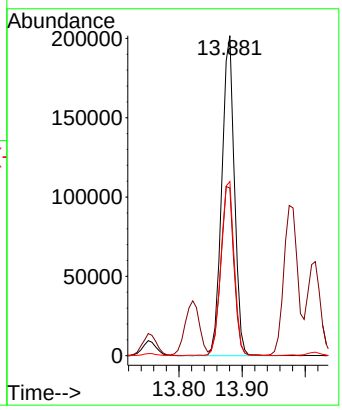


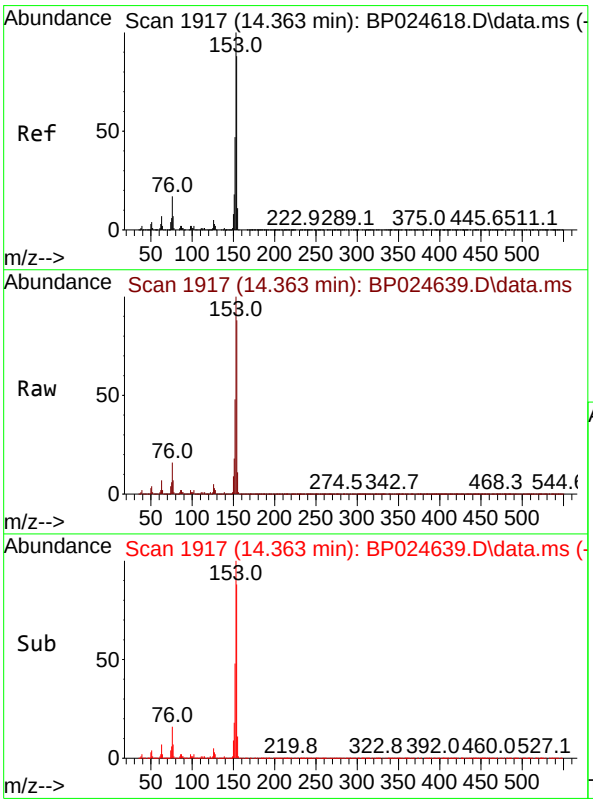
#51
2,6-Dinitrotoluene
Concen: 46.267 ng
RT: 13.881 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:165 Resp: 279686

Ion	Ratio	Lower	Upper
165	100		
63	52.4	42.4	63.6
89	54.4	44.8	67.2

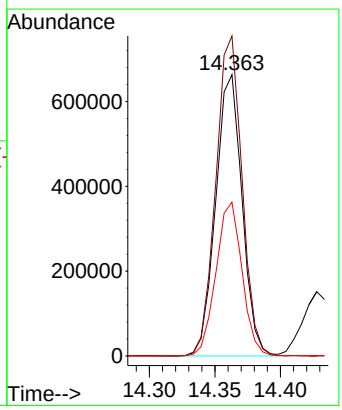


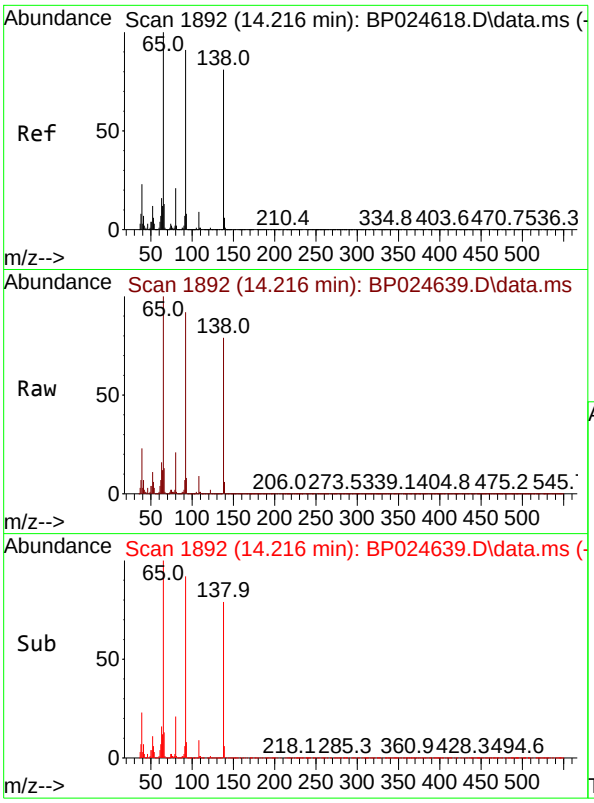


#52
Acenaphthene
Concen: 45.533 ng
RT: 14.363 min Scan# 1917
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:154 Resp: 927052

Ion	Ratio	Lower	Upper
154	100		
153	113.8	91.0	136.4
152	54.7	42.9	64.3



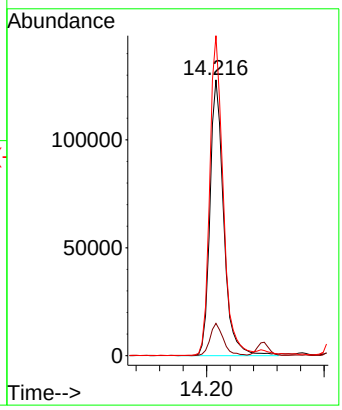


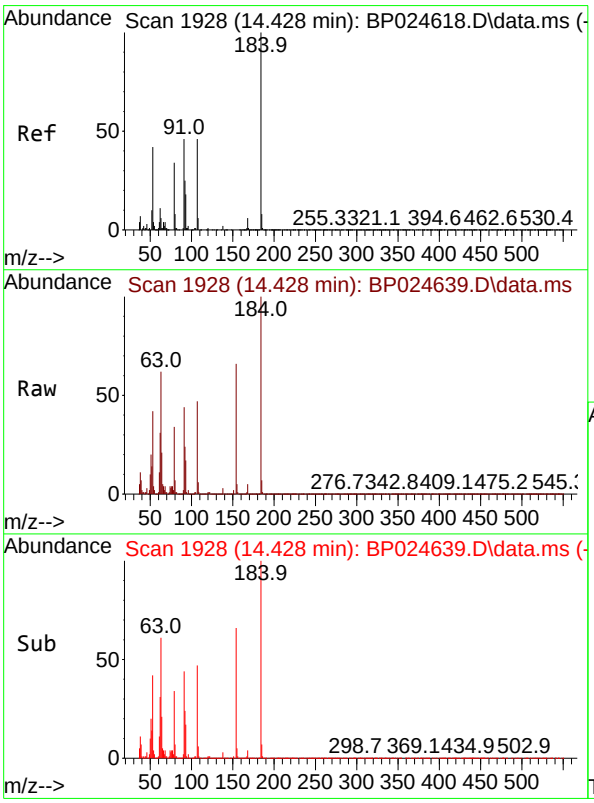
#53
3-Nitroaniline
Concen: 33.592 ng
RT: 14.216 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:138 Resp: 207346

Ion	Ratio	Lower	Upper
138	100		
108	11.7	9.0	13.4
92	116.0	90.1	135.1

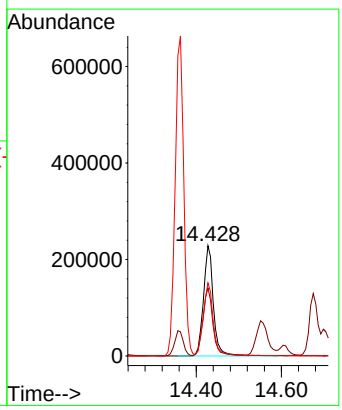


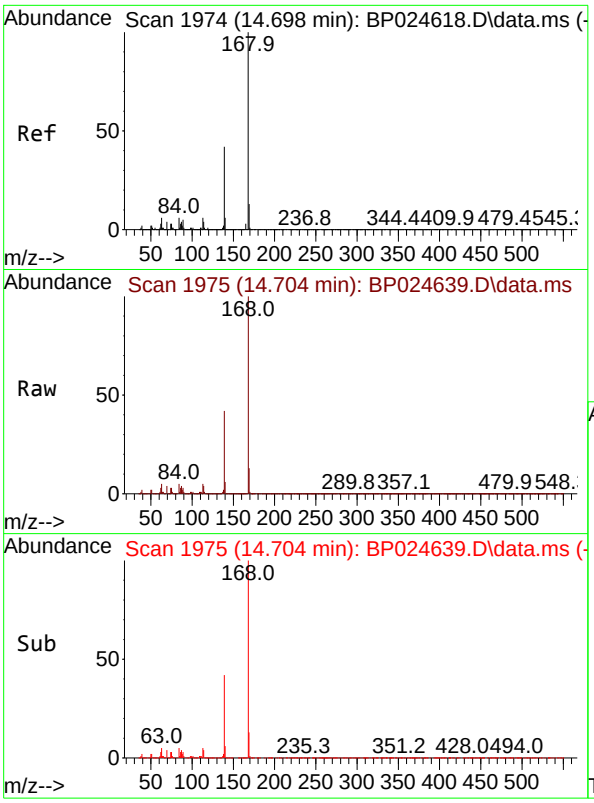


#54
2,4-Dinitrophenol
Concen: 95.940 ng
RT: 14.428 min Scan# 1928
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:184 Resp: 370998

Ion	Ratio	Lower	Upper
184	100		
63	61.6	51.3	76.9
154	66.3	53.5	80.3



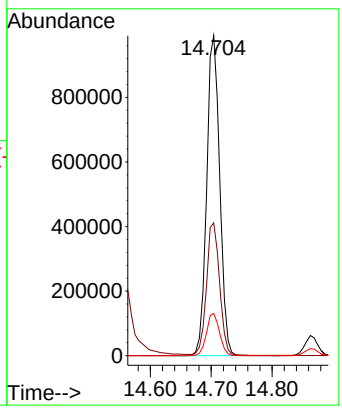


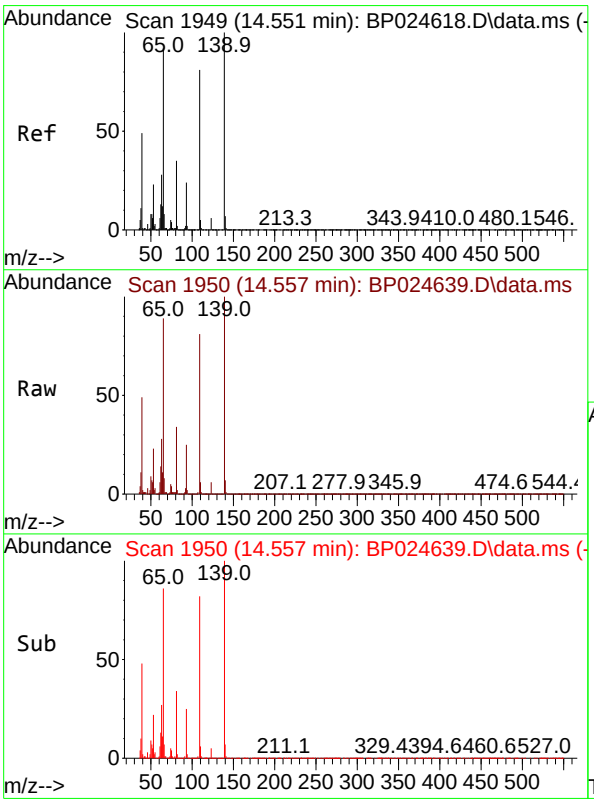
#55
Dibenzofuran
Concen: 45.231 ng
RT: 14.704 min Scan# 1
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:168 Resp: 1468896

Ion	Ratio	Lower	Upper
168	100		
139	41.5	34.2	51.4
169	13.2	10.8	16.2

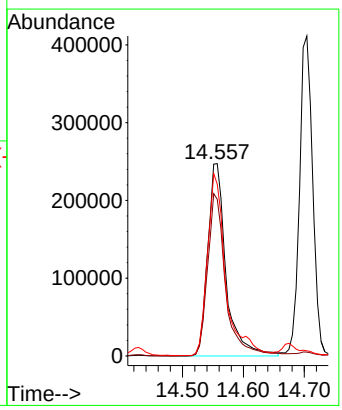


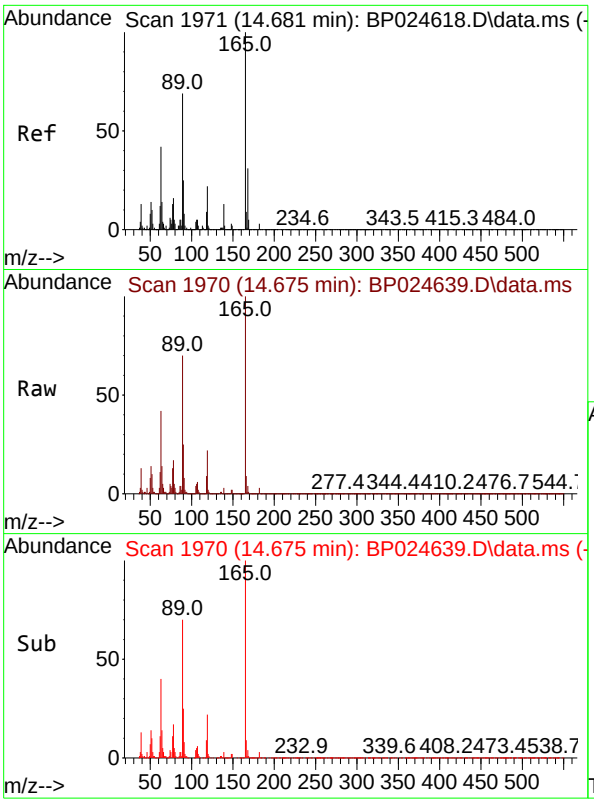


#56
4-Nitrophenol
Concen: 95.730 ng
RT: 14.557 min Scan# 1950
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:139 Resp: 516252

Ion	Ratio	Lower	Upper
139	100		
109	81.5	61.4	101.4
65	89.3	72.2	112.2



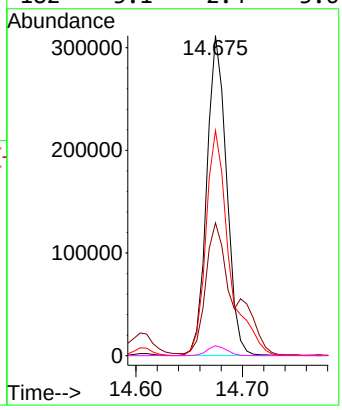


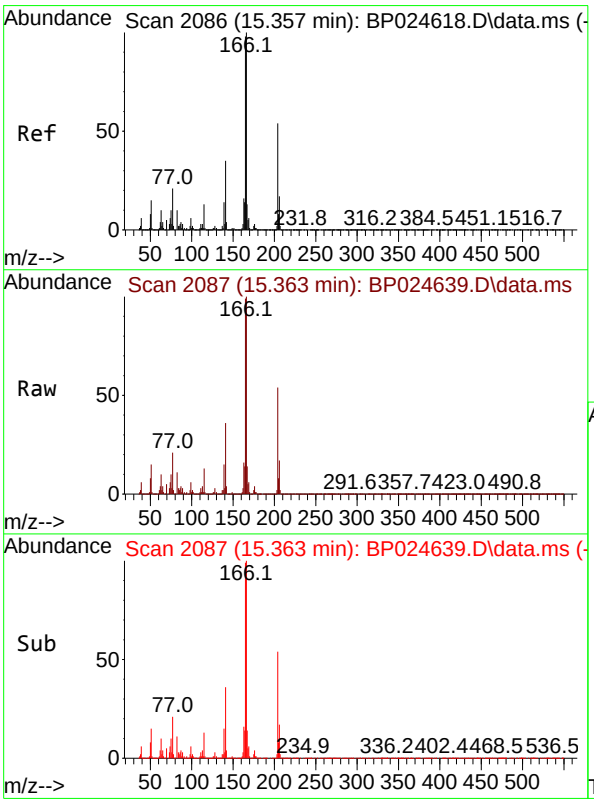
#57
2,4-Dinitrotoluene
Concen: 47.107 ng
RT: 14.675 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:165 Resp: 401464

Ion	Ratio	Lower	Upper
165	100		
63	41.5	33.8	50.6
89	70.3	55.6	83.4
182	3.1	2.4	3.6

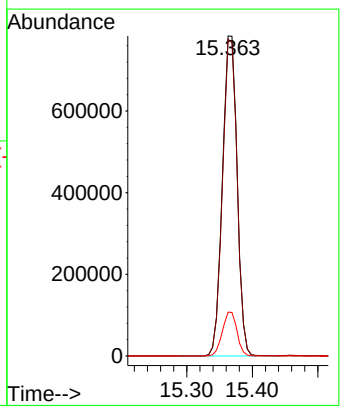


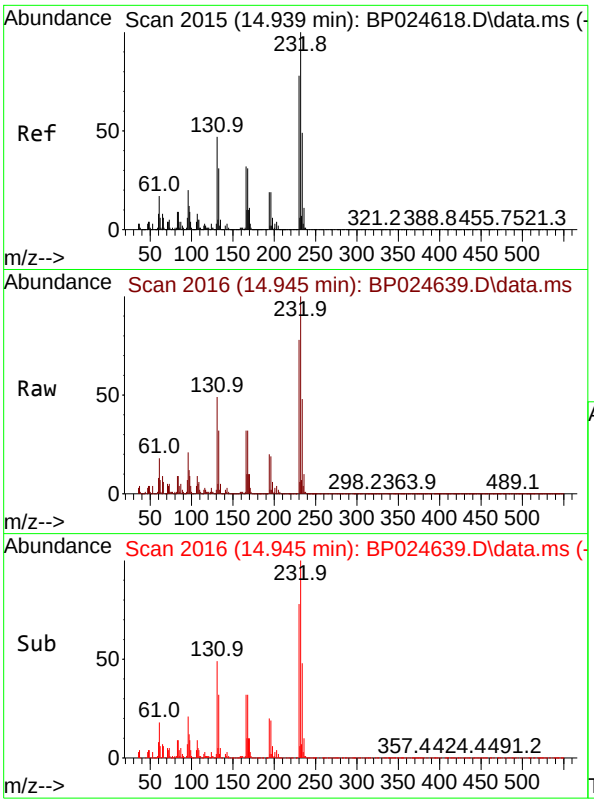


#58
Fluorene
Concen: 45.883 ng
RT: 15.363 min Scan# 2087
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:166 Resp: 1214988

Ion	Ratio	Lower	Upper
166	100		
165	99.0	78.5	117.7
167	13.7	10.7	16.1



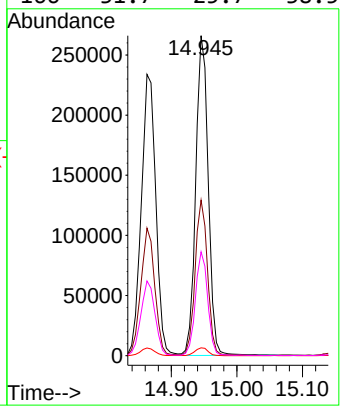


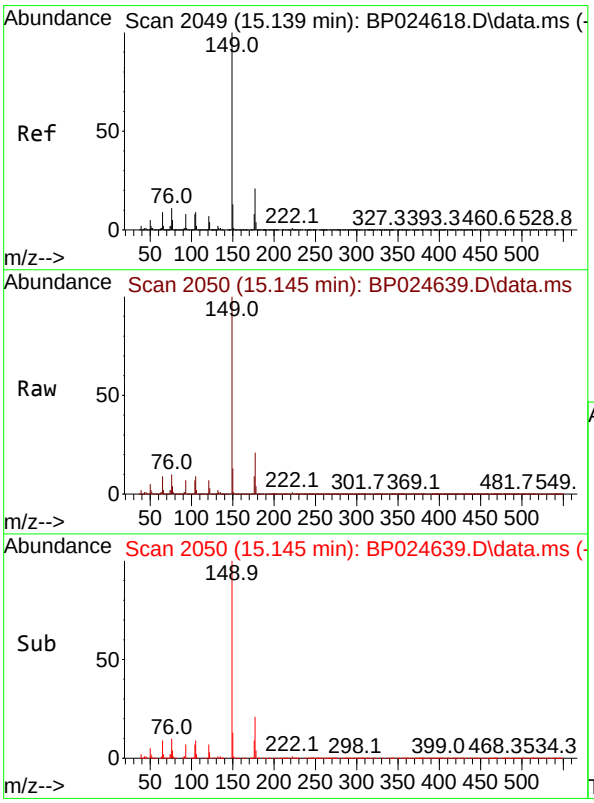
#59
2,3,4,6-Tetrachlorophenol
Concen: 48.402 ng
RT: 14.945 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:232 Resp: 353018

Ion	Ratio	Lower	Upper
232	100		
131	48.2	39.5	59.3
130	2.6	2.2	3.4
166	31.7	25.7	38.5

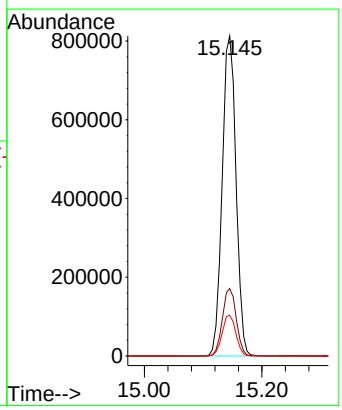


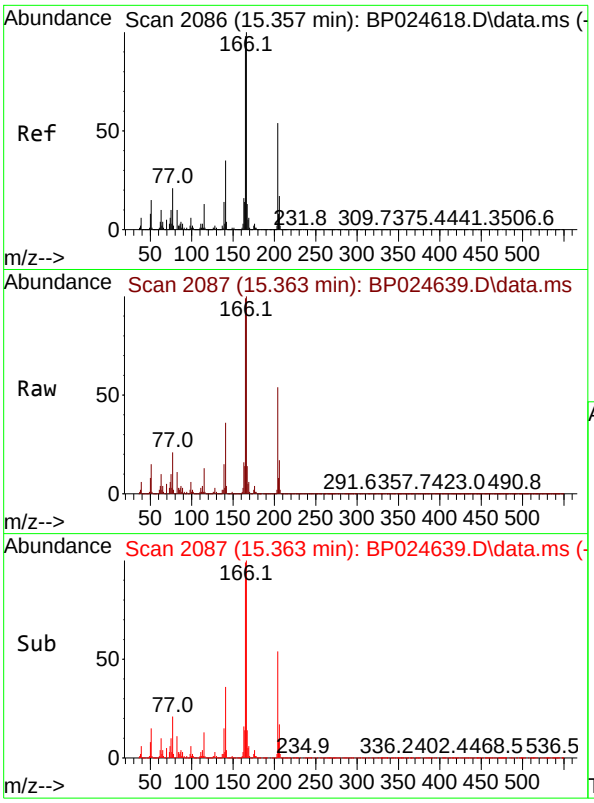


#60
Diethylphthalate
Concen: 45.812 ng
RT: 15.145 min Scan# 2050
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:149 Resp: 1325337

Ion	Ratio	Lower	Upper
149	100		
177	21.1	16.7	25.1
150	12.7	10.2	15.2



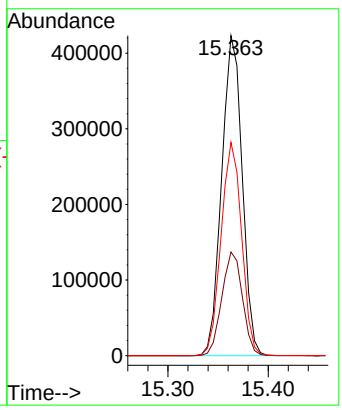


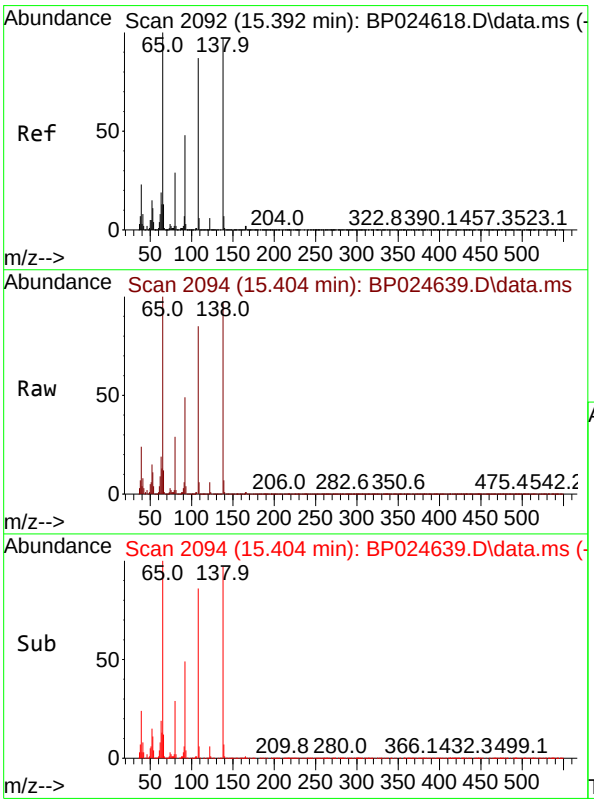
#61
4-Chlorophenyl-phenylether
Concen: 45.538 ng
RT: 15.363 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:204 Resp: 601374

Ion	Ratio	Lower	Upper
204	100		
206	32.4	26.0	39.0
141	66.6	52.9	79.3

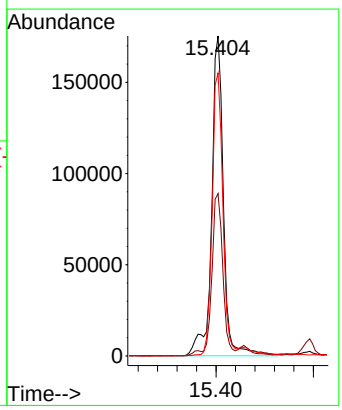


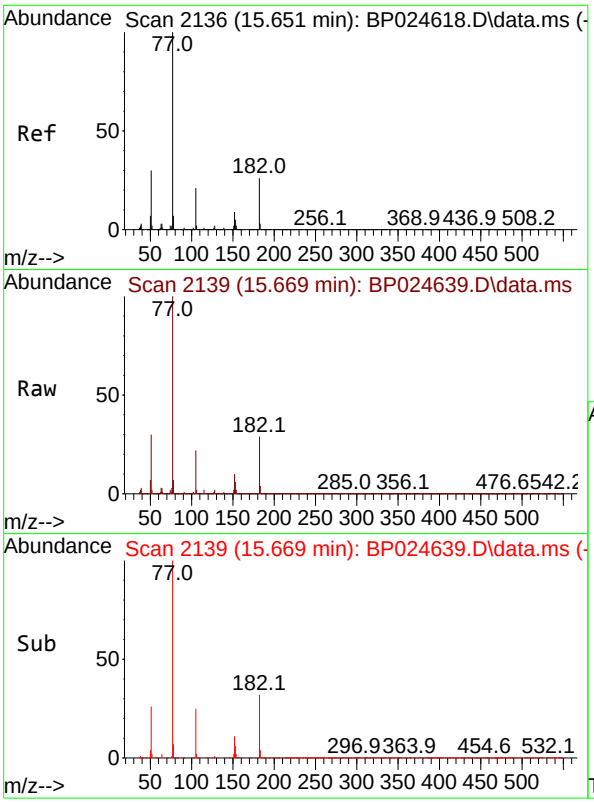


#62
4-Nitroaniline
Concen: 49.350 ng
RT: 15.404 min Scan# 2094
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:138 Resp: 294125

Ion	Ratio	Lower	Upper
138	100		
92	50.8	29.2	69.2
108	88.4	69.0	109.0



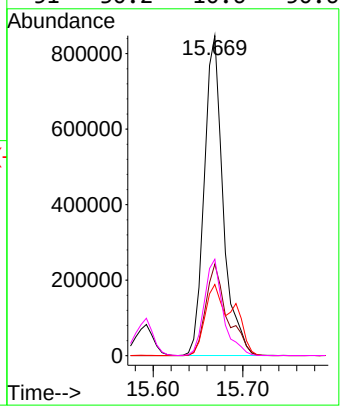


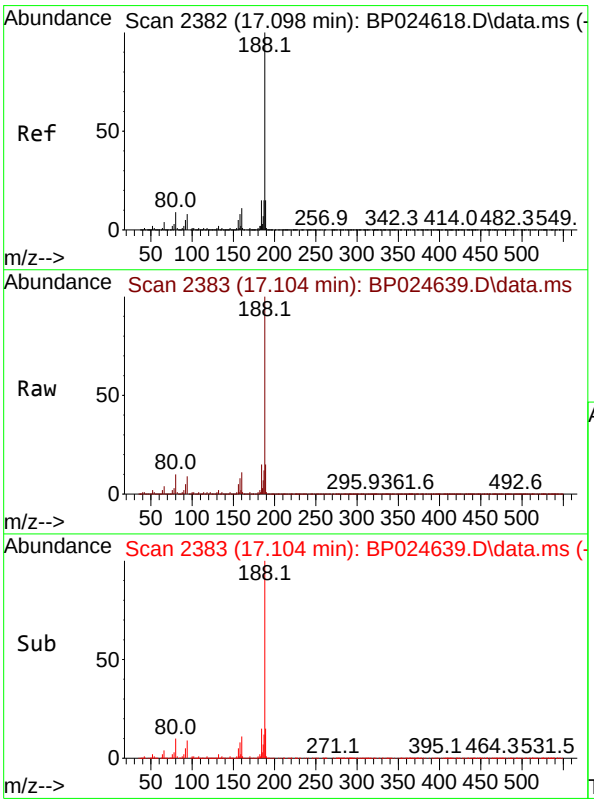
#63
Azobenzene
Concen: 49.848 ng
RT: 15.669 min Scan# 21
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion: 77 Resp: 1233658

Ion	Ratio	Lower	Upper
77	100		
182	28.6	5.7	45.7
105	22.2	1.3	41.3
51	30.2	10.6	50.6

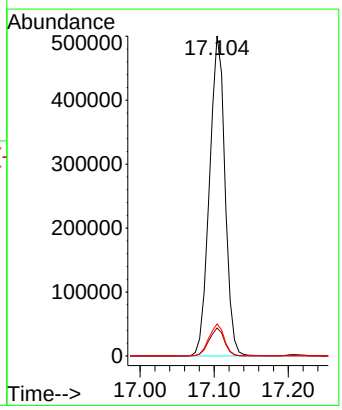


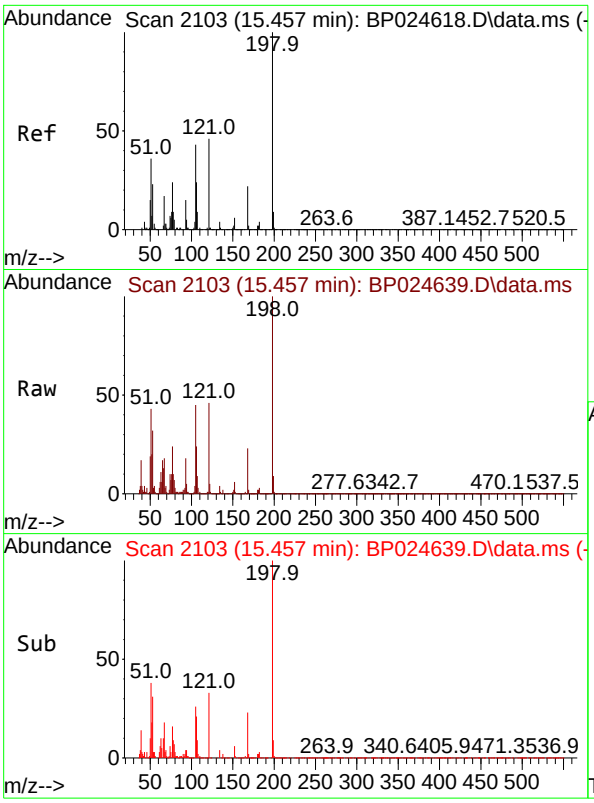


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.104 min Scan# 2383
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:188 Resp: 726778

Ion	Ratio	Lower	Upper
188	100		
94	8.7	6.5	9.7
80	10.0	7.3	10.9



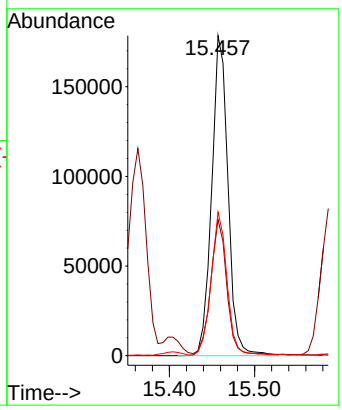


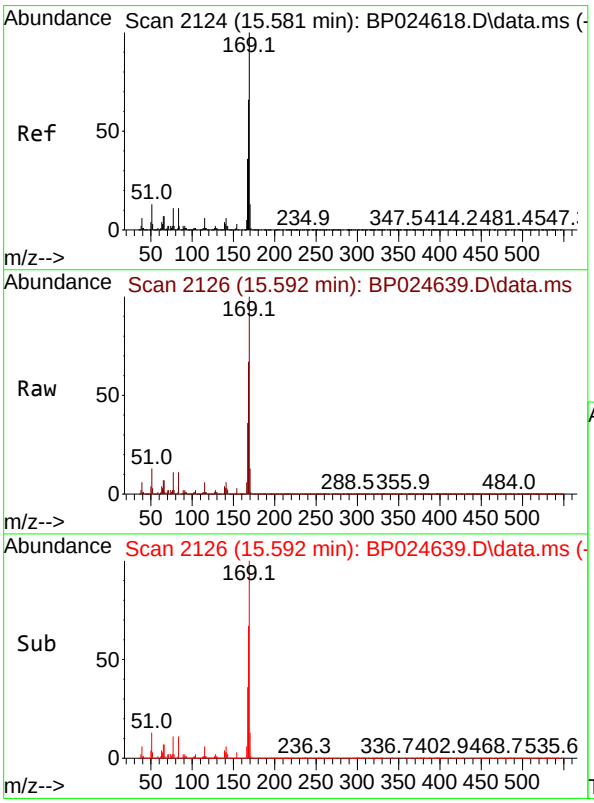
#65
4,6-Dinitro-2-methylphenol
Concen: 50.556 ng
RT: 15.457 min Scan# 21
Delta R.T. -0.000 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:198 Resp: 237337

Ion	Ratio	Lower	Upper
198	100		
51	42.5	21.1	61.1
105	44.9	23.6	63.6

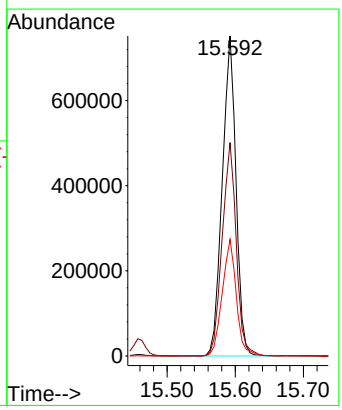


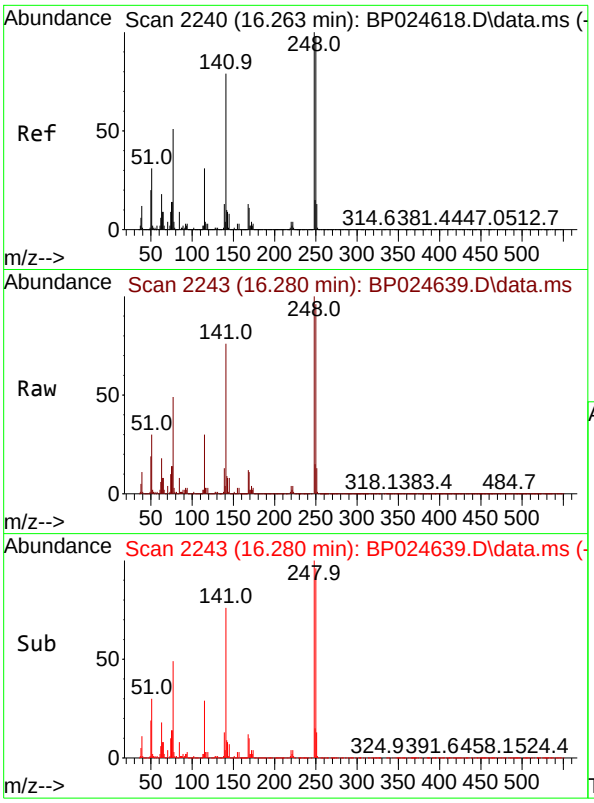


#66
n-Nitrosodiphenylamine
Concen: 47.126 ng
RT: 15.592 min Scan# 2126
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:169 Resp: 1052029

Ion	Ratio	Lower	Upper
169	100		
168	66.7	53.2	79.8
167	36.4	28.6	43.0



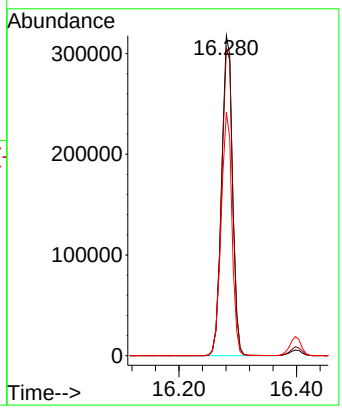


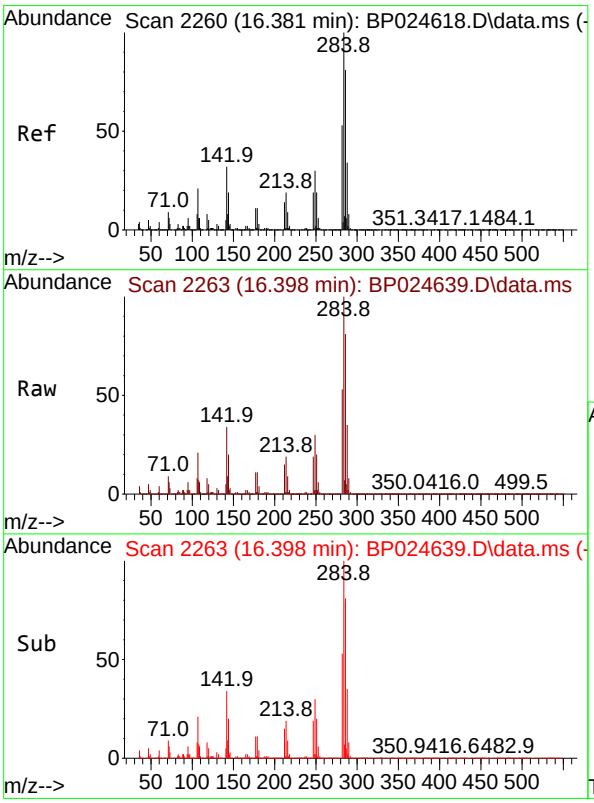
#67
4-Bromophenyl-phenylether
Concen: 47.731 ng
RT: 16.280 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:248 Resp: 408770

Ion	Ratio	Lower	Upper
248	100		
250	96.1	78.2	117.4
141	76.1	63.0	94.6

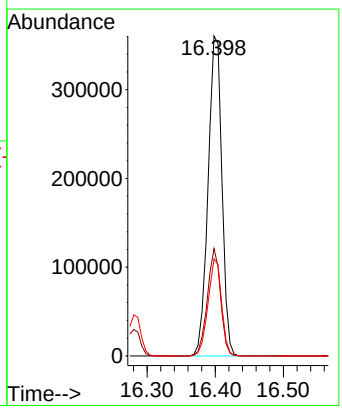


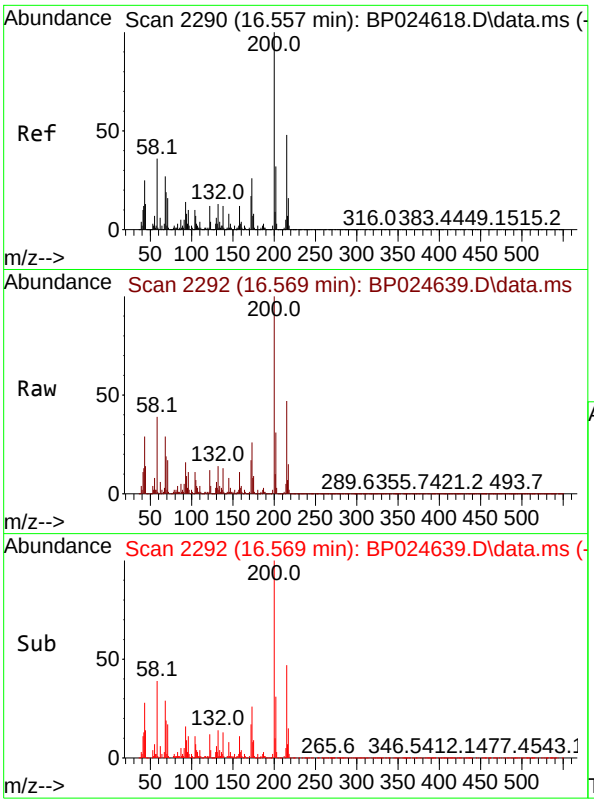


#68
Hexachlorobenzene
Concen: 46.695 ng
RT: 16.398 min Scan# 2263
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:284 Resp: 508136

Ion	Ratio	Lower	Upper
284	100		
142	33.5	25.9	38.9
249	30.4	24.1	36.1



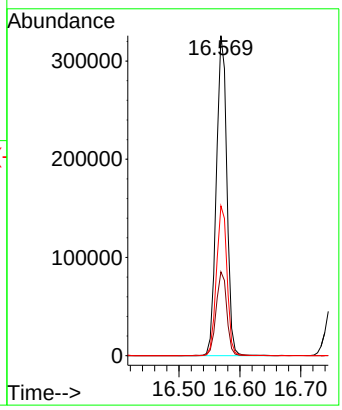


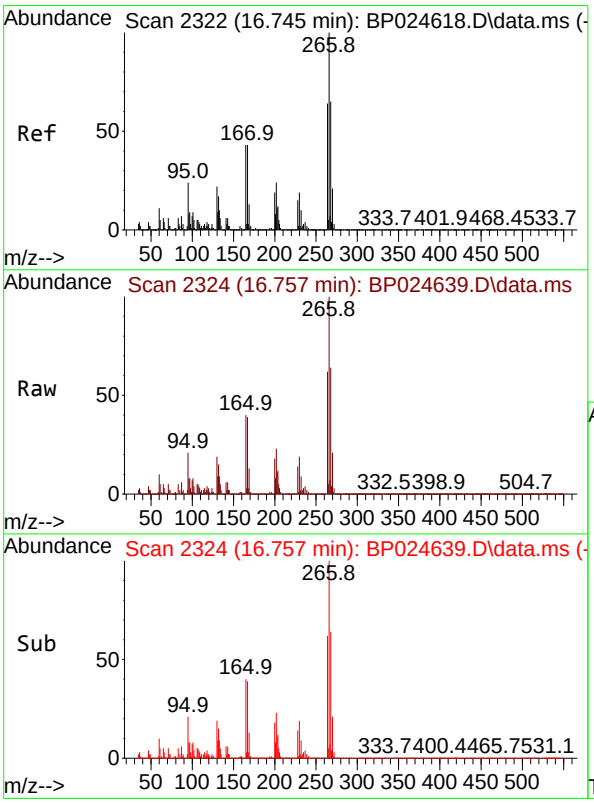
#69
Atrazine
Concen: 47.576 ng
RT: 16.569 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:200 Resp: 389218

Ion	Ratio	Lower	Upper
200	100		
173	26.2	5.9	45.9
215	46.8	28.3	68.3

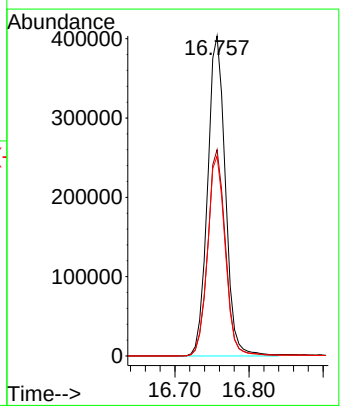


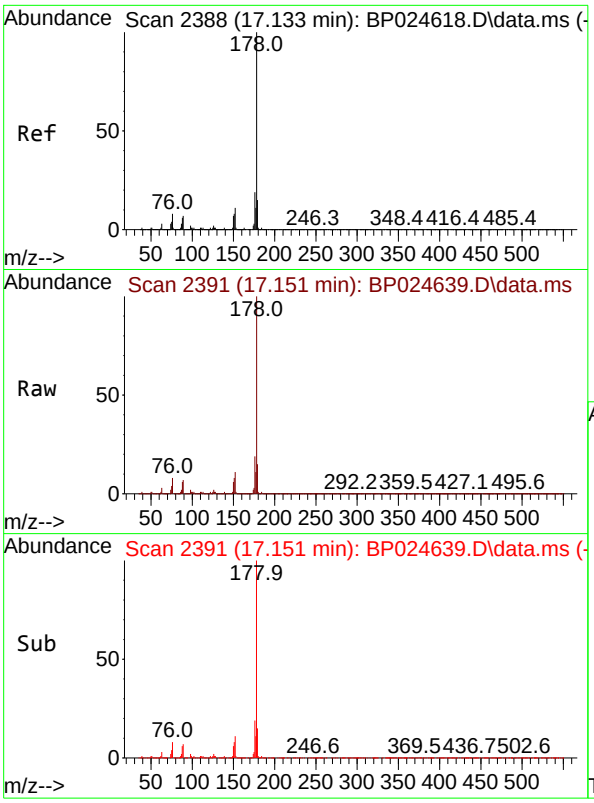


#70
Pentachlorophenol
Concen: 109.866 ng
RT: 16.757 min Scan# 2324
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:266 Resp: 671128

Ion	Ratio	Lower	Upper
266	100		
268	64.5	52.2	78.4
264	62.5	51.1	76.7



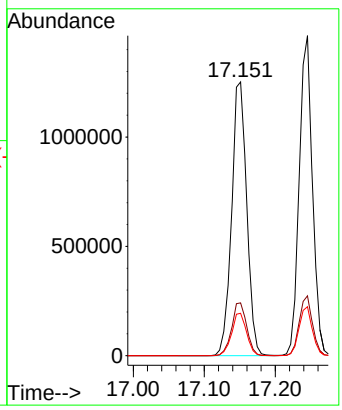


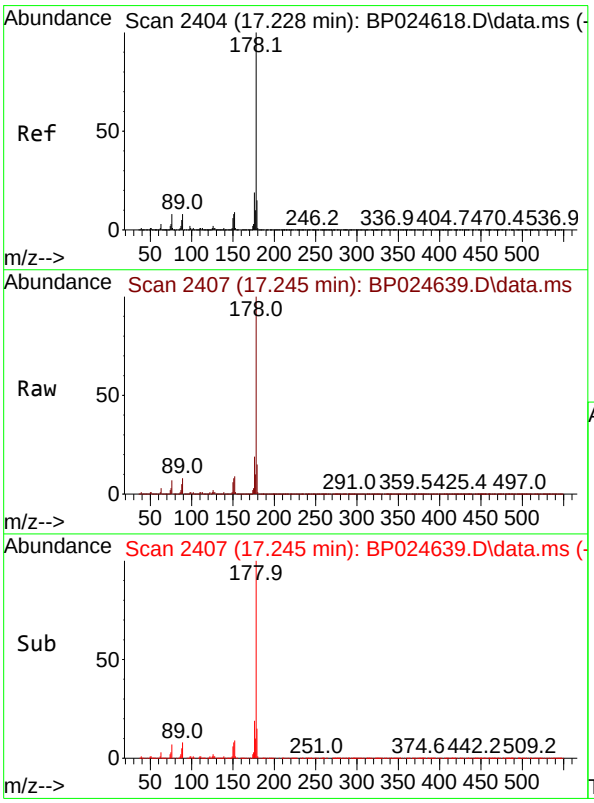
#71
Phenanthrene
Concen: 45.914 ng
RT: 17.151 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:178 Resp: 1855042

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.4	23.2
179	15.5	12.2	18.4

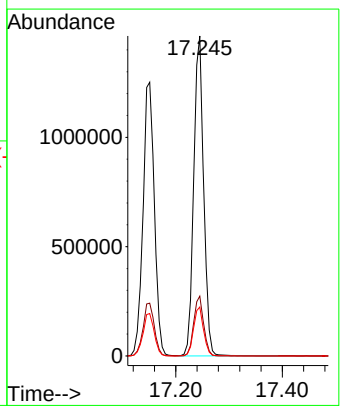


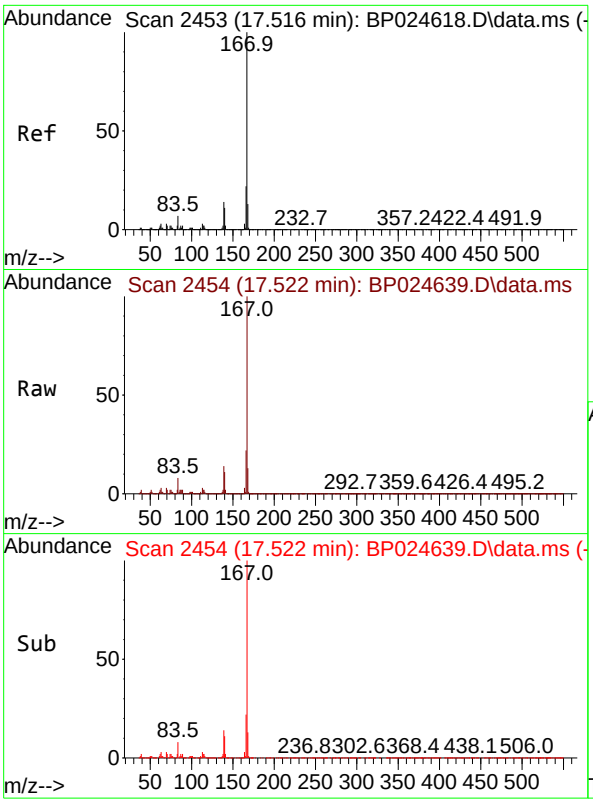


#72
Anthracene
Concen: 46.501 ng
RT: 17.245 min Scan# 2407
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:178 Resp: 1890233

Ion	Ratio	Lower	Upper
178	100		
176	18.7	15.0	22.4
179	15.3	12.2	18.2



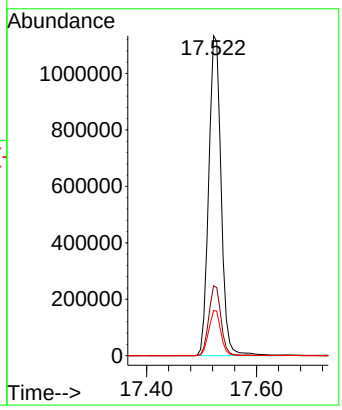


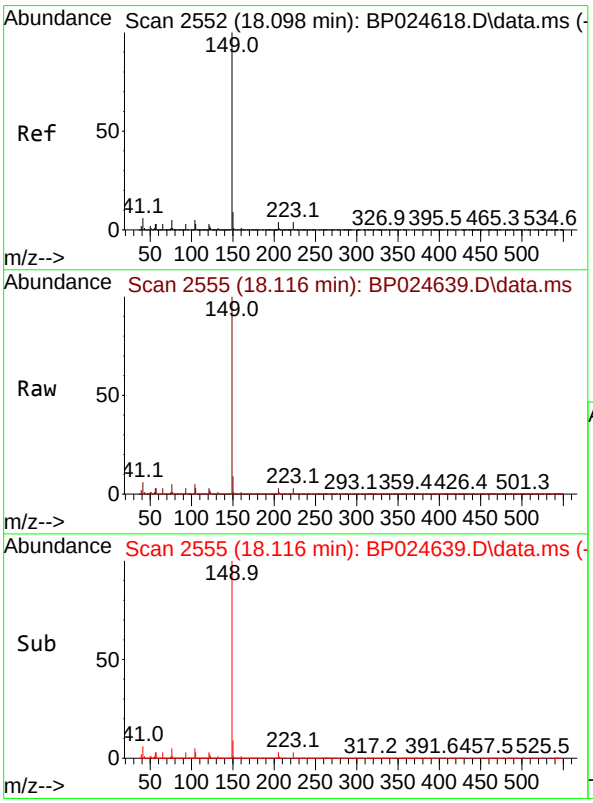
#73
Carbazole
Concen: 48.125 ng
RT: 17.522 min Scan# 24
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:167 Resp: 1770616

Ion	Ratio	Lower	Upper
167	100		
166	21.8	17.7	26.5
139	14.1	11.3	16.9

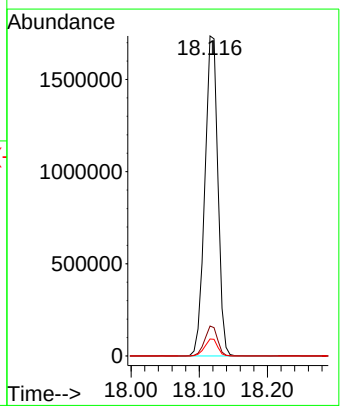


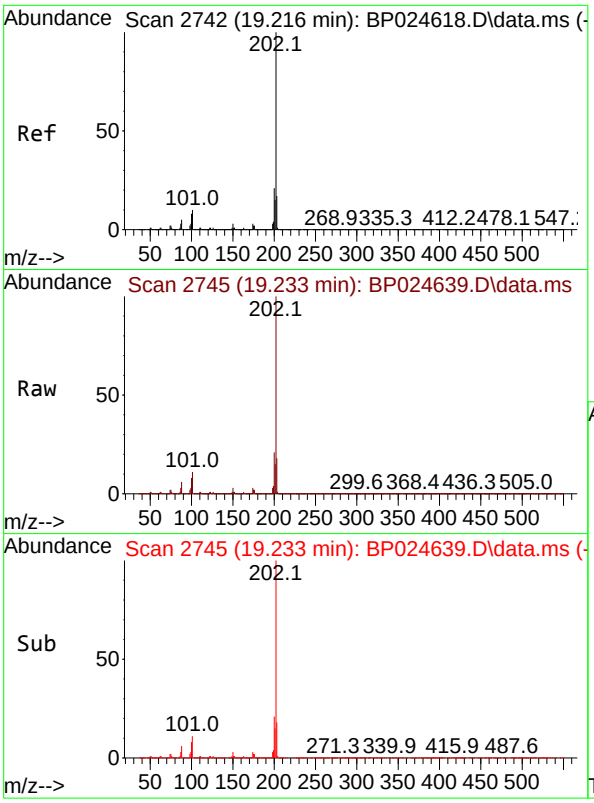


#74
Di-n-butylphthalate
Concen: 48.711 ng
RT: 18.116 min Scan# 2555
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:149 Resp: 2304897

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.2	10.8
104	5.3	4.3	6.5



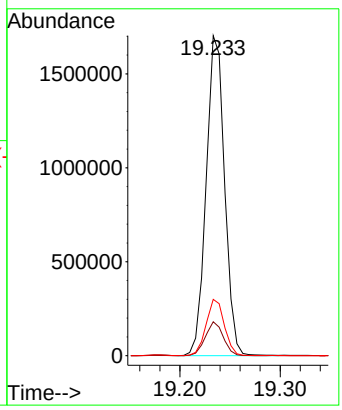


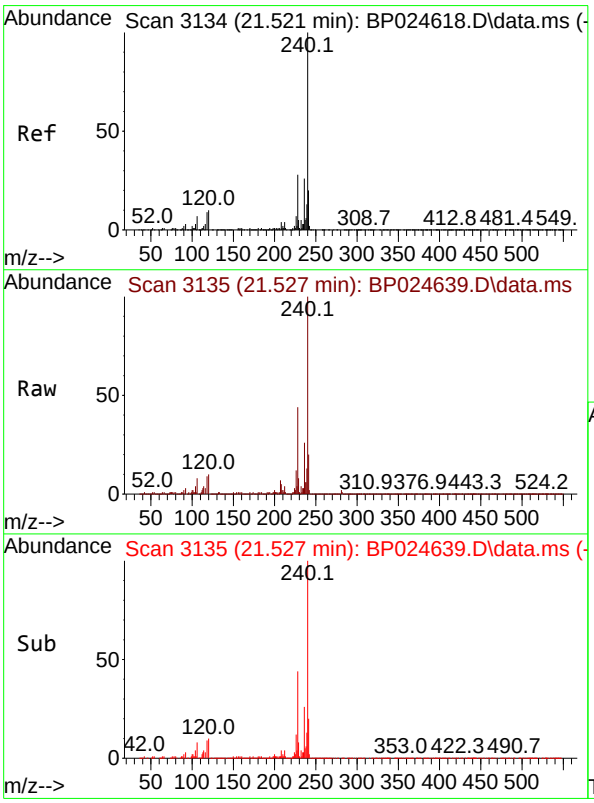
#75
Fluoranthene
Concen: 46.096 ng
RT: 19.233 min Scan# 2
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:202 Resp: 2177024

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	30.3
203	17.6	0.0	37.5

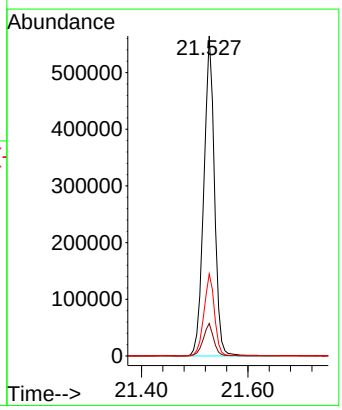


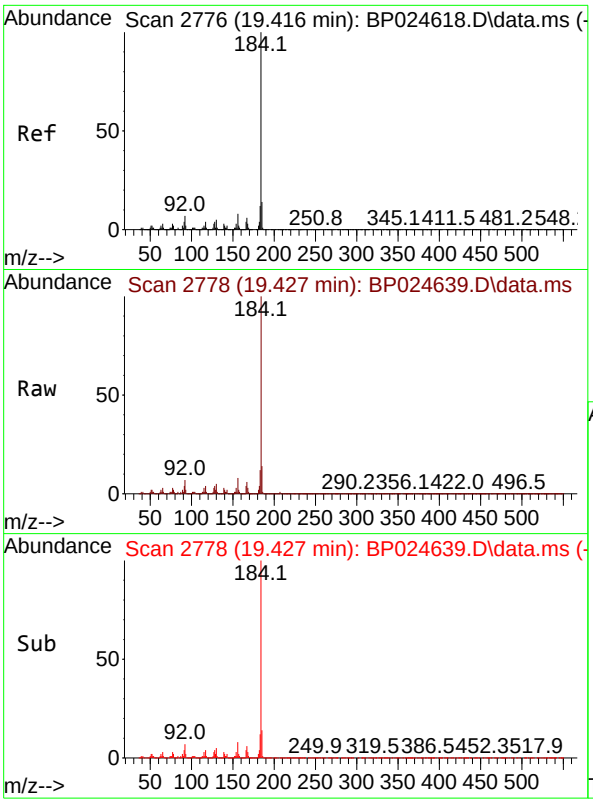


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.527 min Scan# 3135
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:240 Resp: 785534

Ion	Ratio	Lower	Upper
240	100		
120	10.2	7.8	11.6
236	25.6	20.6	31.0



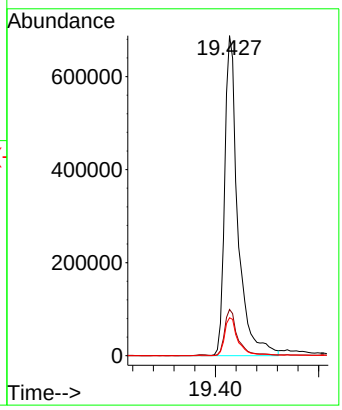


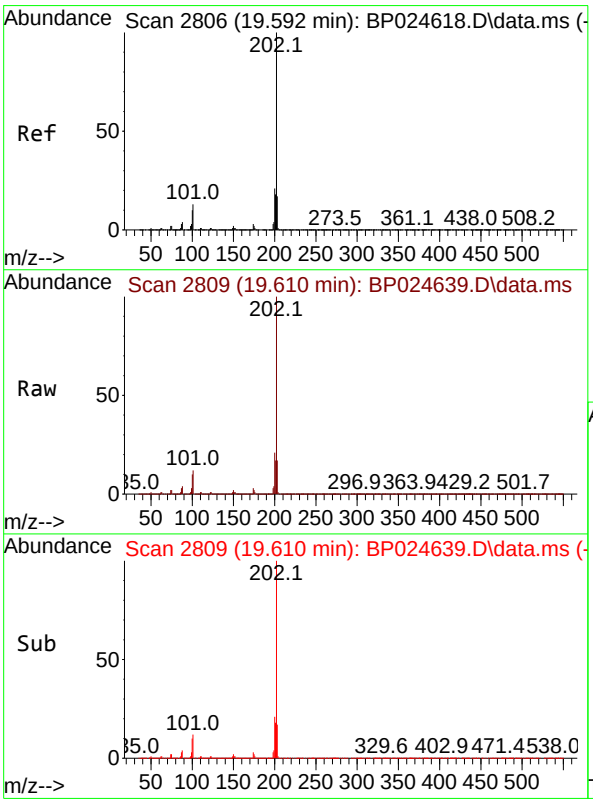
#77
Benzidine
Concen: 56.878 ng
RT: 19.427 min Scan# 2
Delta R.T. 0.011 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:184 Resp: 1216882

Ion	Ratio	Lower	Upper
184	100		
185	14.4	11.2	16.8
183	11.9	9.8	14.8

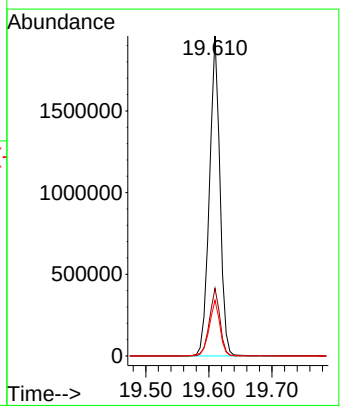


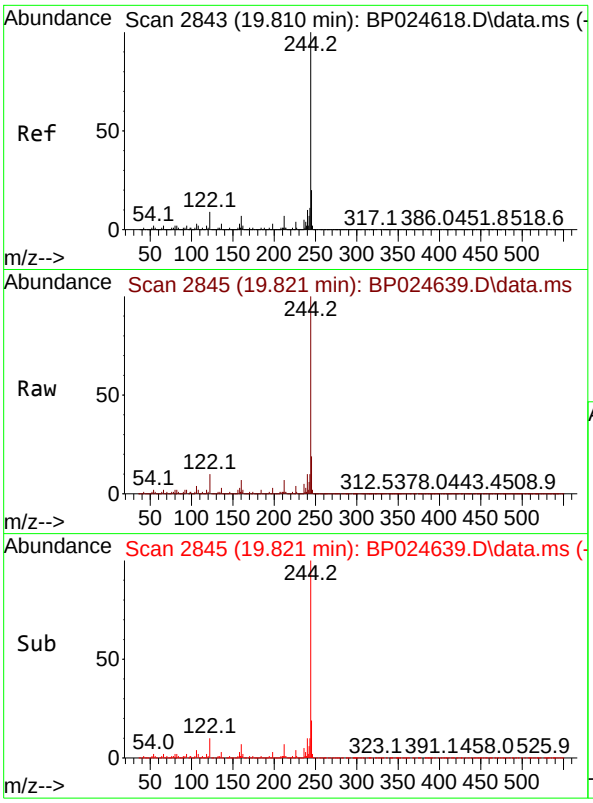


#78
Pyrene
Concen: 47.874 ng
RT: 19.610 min Scan# 2809
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:202 Resp: 2253283

Ion	Ratio	Lower	Upper
202	100		
200	21.1	16.9	25.3
203	17.4	13.9	20.9



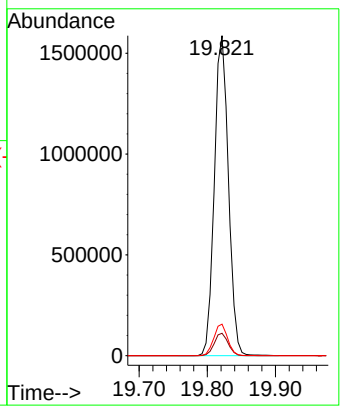


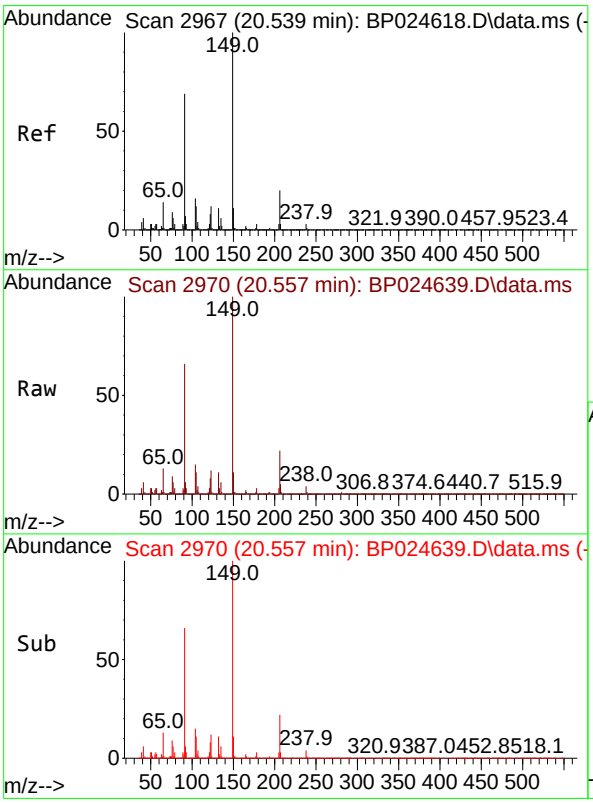
#79
Terphenyl-d14
Concen: 49.789 ng
RT: 19.821 min Scan# 2
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:244 Resp: 2280930

Ion	Ratio	Lower	Upper
244	100		
212	7.0	5.5	8.3
122	9.9	7.4	11.0

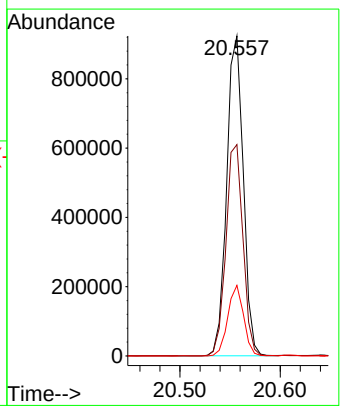


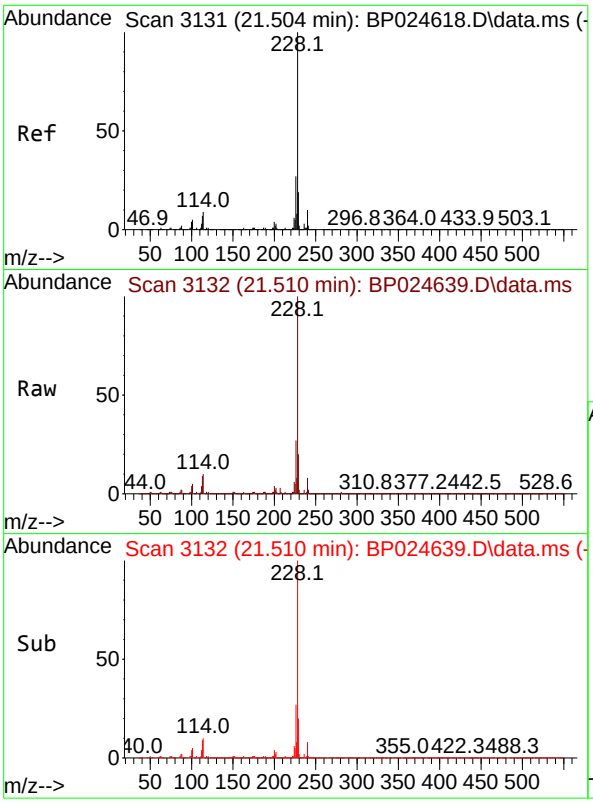


#80
Butylbenzylphthalate
Concen: 50.684 ng
RT: 20.557 min Scan# 2970
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:149 Resp: 1060952

Ion	Ratio	Lower	Upper
149	100		
91	66.1	55.4	83.0
206	22.1	16.2	24.2



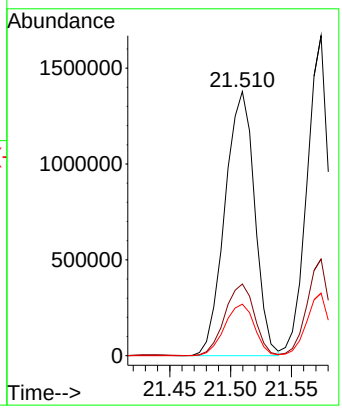


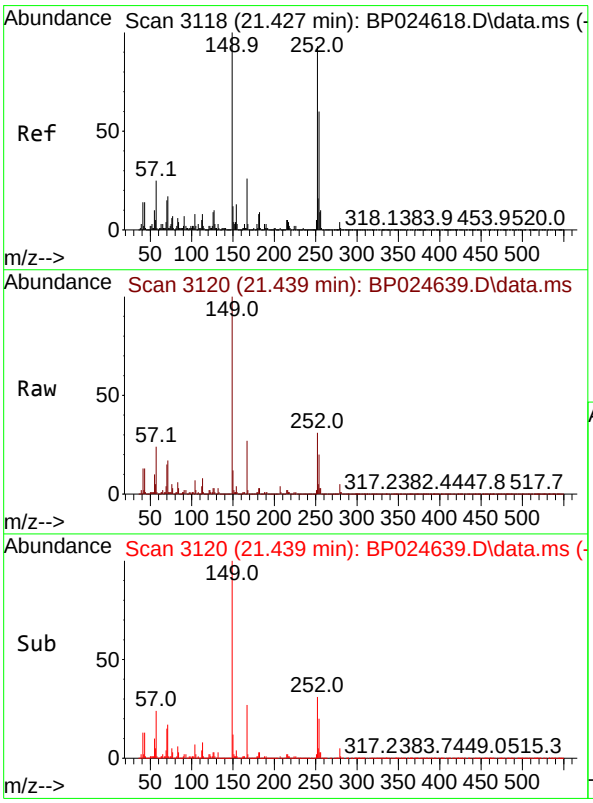
#81
Benzo(a)anthracene
Concen: 47.414 ng
RT: 21.510 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:228 Resp: 2338691

Ion	Ratio	Lower	Upper
228	100		
226	27.1	21.4	32.0
229	19.5	15.5	23.3

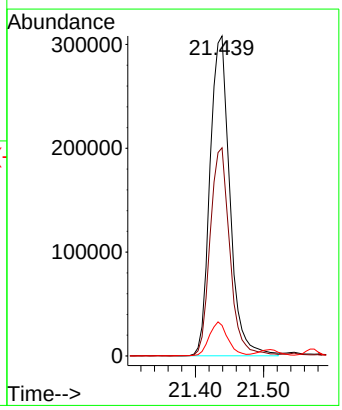


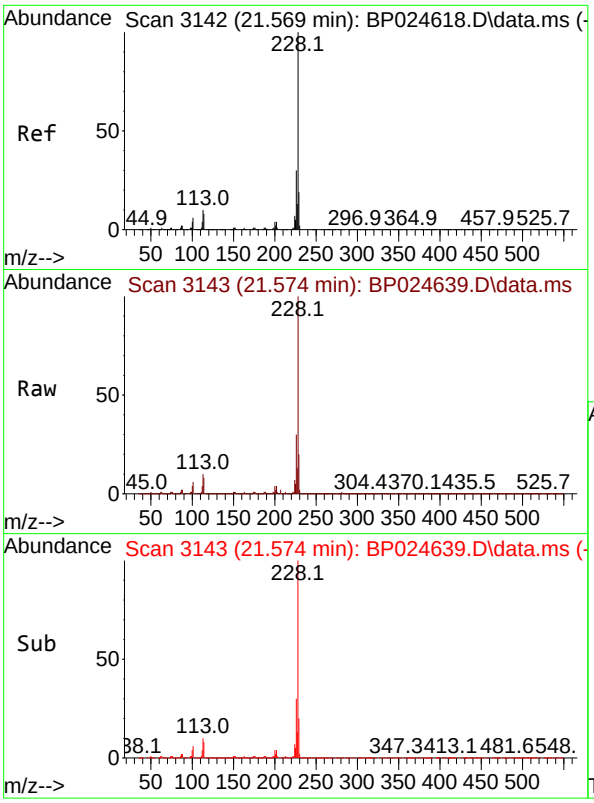


#82
3,3'-Dichlorobenzidine
Concen: 33.999 ng
RT: 21.439 min Scan# 3120
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:252 Resp: 622869

Ion	Ratio	Lower	Upper
252	100		
254	65.1	51.8	77.6
126	9.6	7.7	11.5



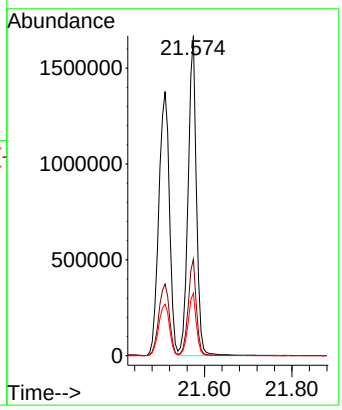


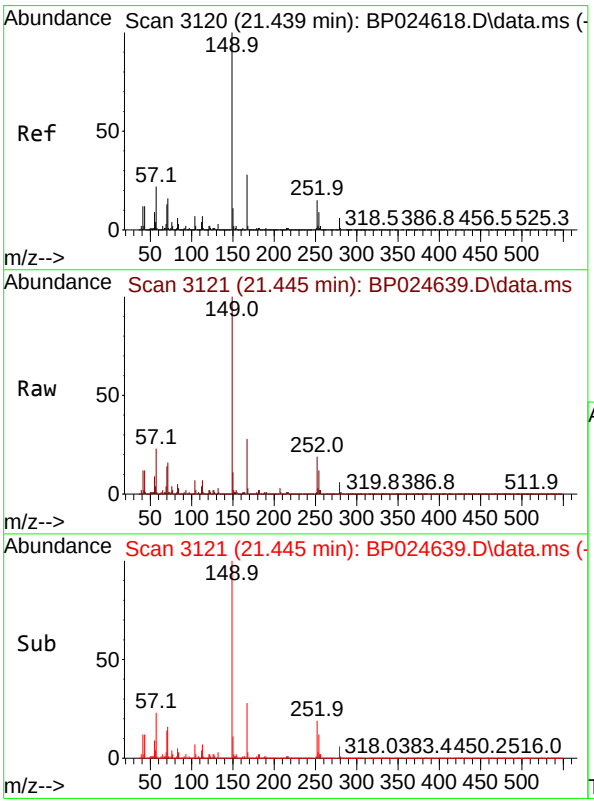
#83
Chrysene
Concen: 46.609 ng
RT: 21.574 min Scan# 3
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:228 Resp: 2179347

Ion	Ratio	Lower	Upper
228	100		
226	30.2	23.9	35.9
229	19.6	15.5	23.3

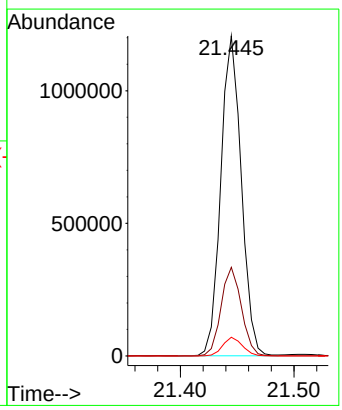


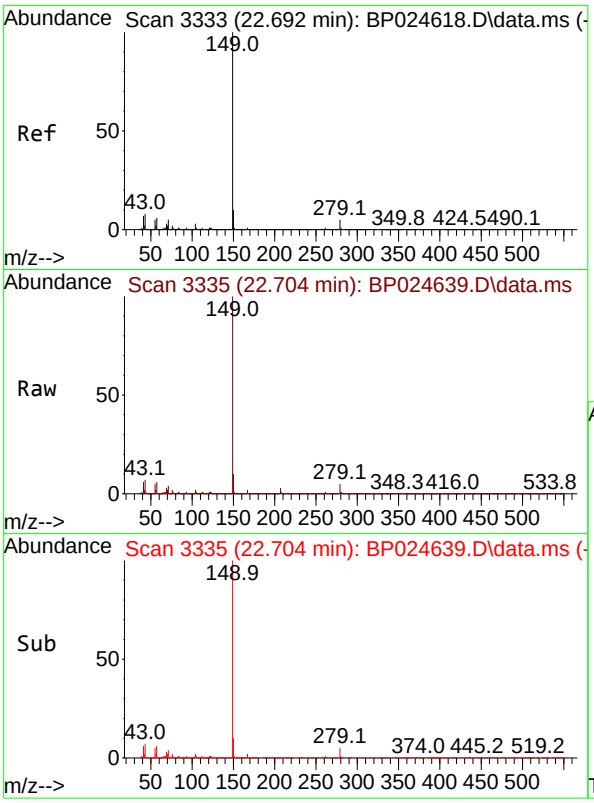


#84
Bis(2-ethylhexyl)phthalate
Concen: 49.165 ng
RT: 21.445 min Scan# 3121
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:149 Resp: 1512698

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.1	33.1
279	5.9	4.6	6.8



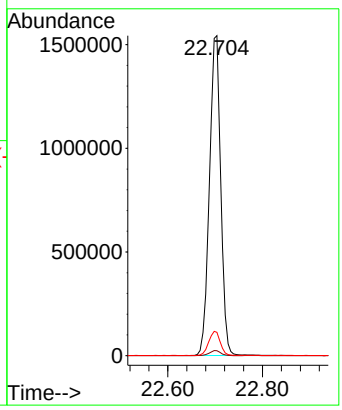


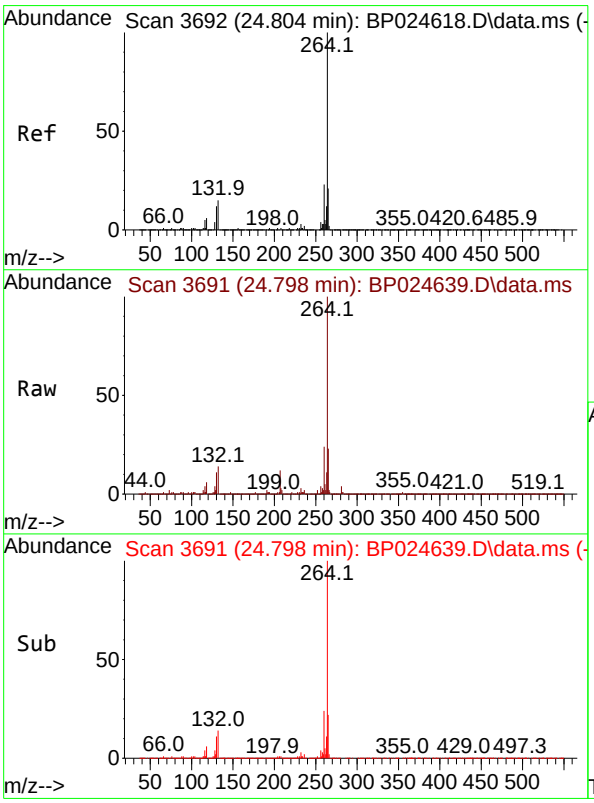
#85
Di-n-octyl phthalate
Concen: 50.745 ng
RT: 22.704 min Scan# 3
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:149 Resp: 2553144

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.7	6.3	9.5

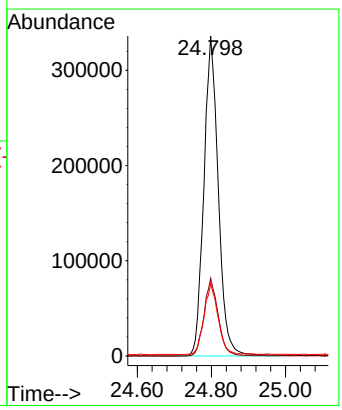


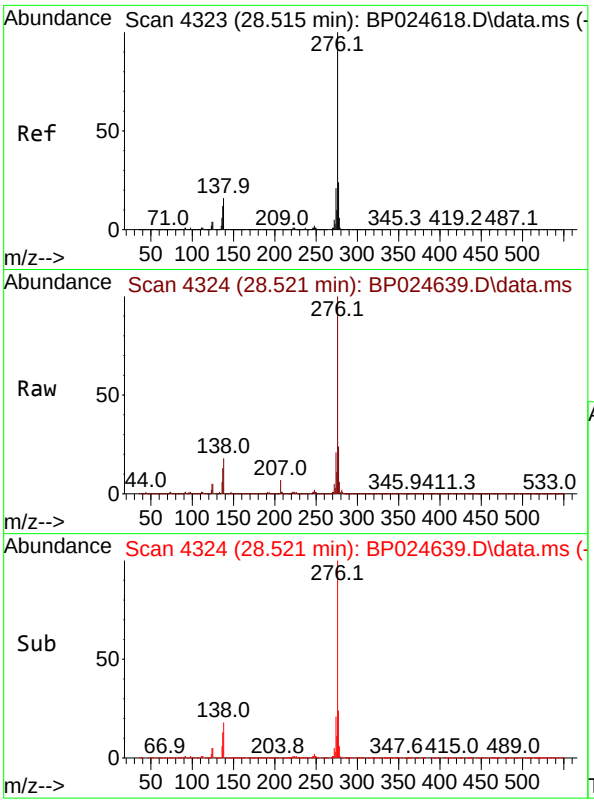


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.798 min Scan# 3691
Delta R.T. -0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:264 Resp: 909133

Ion	Ratio	Lower	Upper
264	100		
260	24.3	18.7	28.1
265	22.7	17.0	25.6



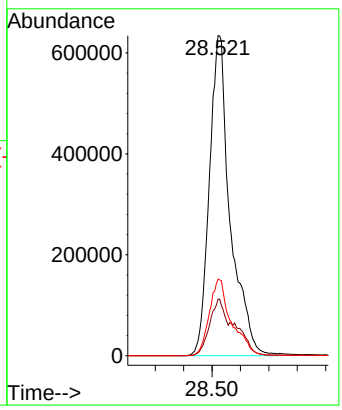


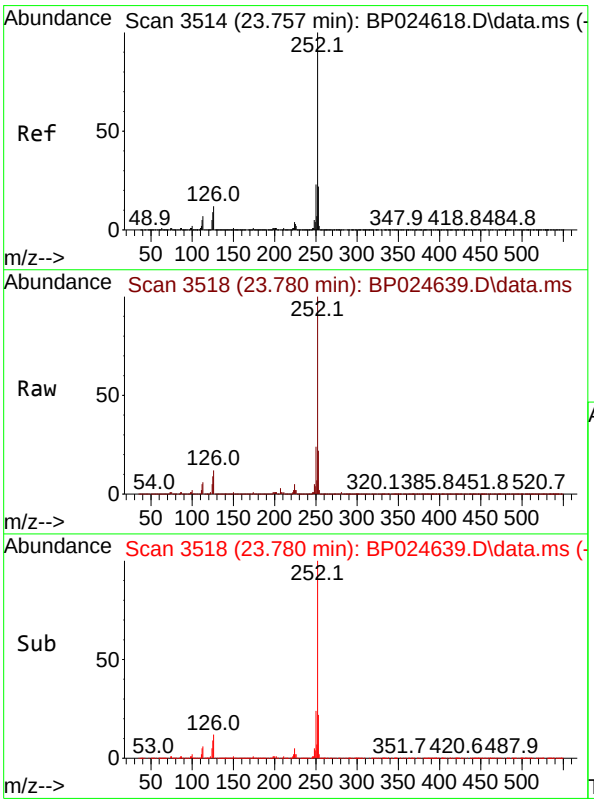
#87
Indeno(1,2,3-cd)pyrene
Concen: 48.618 ng
RT: 28.521 min Scan# 4
Delta R.T. 0.006 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:276 Resp: 3226858

Ion	Ratio	Lower	Upper
276	100		
138	21.0	11.2	16.8#
277	25.5	15.7	23.5#

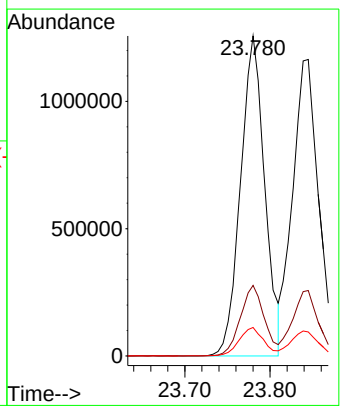


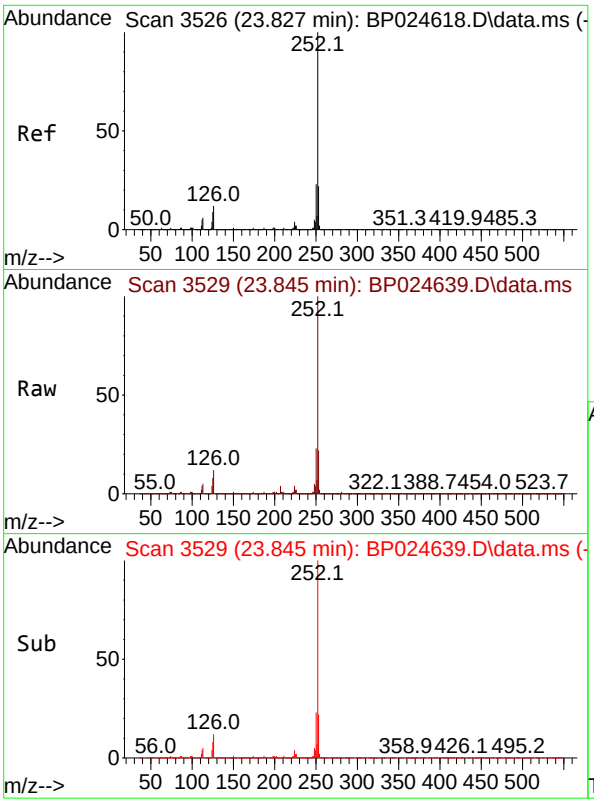


#88
Benzo(b)fluoranthene
Concen: 47.594 ng
RT: 23.780 min Scan# 3518
Delta R.T. 0.023 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:252 Resp: 2476684

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.7	26.5
125	8.9	7.5	11.3



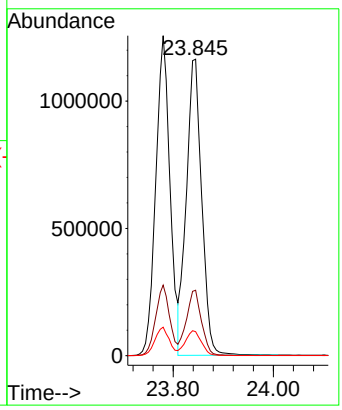


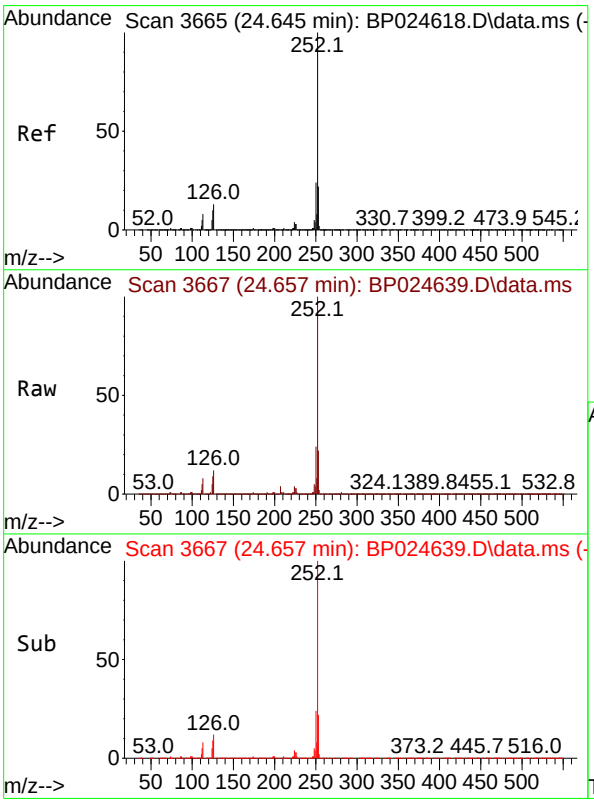
#89
Benzo(k)fluoranthene
Concen: 46.222 ng
RT: 23.845 min Scan# 3
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:252 Resp: 2478499

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	8.1	7.0	10.4

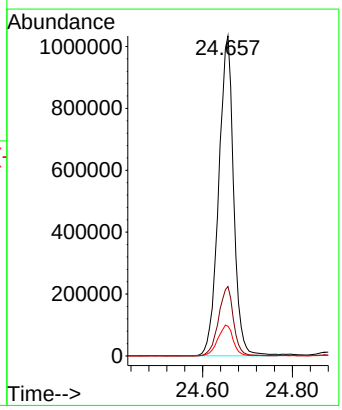


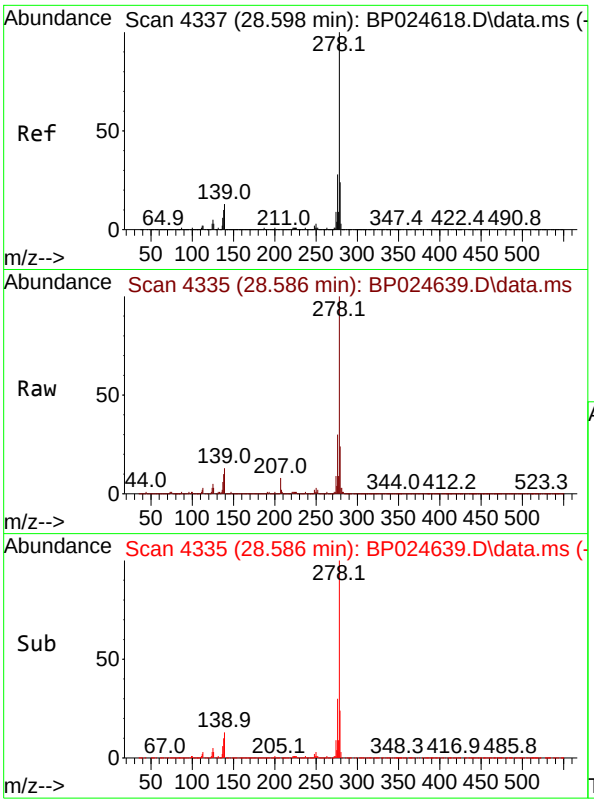


#90
Benzo(a)pyrene
Concen: 47.980 ng
RT: 24.657 min Scan# 3667
Delta R.T. 0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:252 Resp: 2397923

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	9.3	8.1	12.1



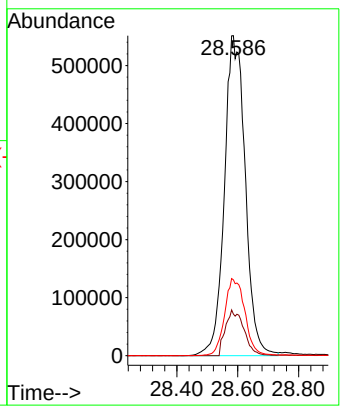


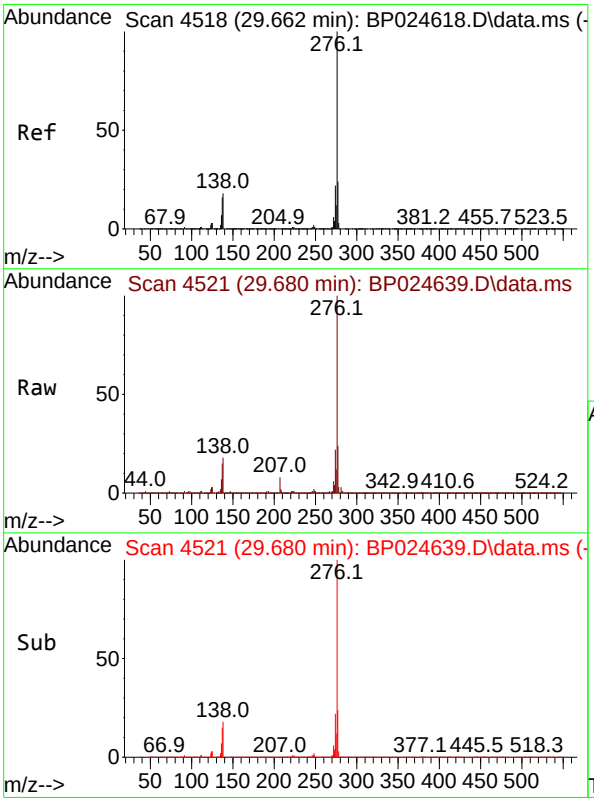
#91
Dibenzo(a,h)anthracene
Concen: 48.552 ng
RT: 28.586 min Scan# 4
Delta R.T. -0.012 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Instrument :
BNA_P
ClientSampleId :
TP-13MSD

Tgt Ion:278 Resp: 2621583

Ion	Ratio	Lower	Upper
278	100		
139	13.0	10.2	15.4
279	23.7	19.0	28.4

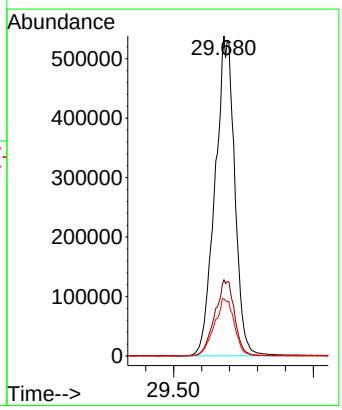




#92
Benzo(g,h,i)perylene
Concen: 48.888 ng
RT: 29.680 min Scan# 4521
Delta R.T. 0.018 min
Lab File: BP024639.D
Acq: 15 May 2025 15:59

Tgt Ion:276 Resp: 2625102

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.0	28.4
138	17.9	14.4	21.6



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024645.D
Acq On : 15 May 2025 20:04
Operator : RC/JU
Sample : Q1984-13
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Quant Time: May 16 01:17:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.663	152	191006	20.000	ng		0.00
21) Naphthalene-d8	10.434	136	745950	20.000	ng		0.00
39) Acenaphthene-d10	14.298	164	449224	20.000	ng		0.00
64) Phenanthrene-d10	17.092	188	846872	20.000	ng		0.00
76) Chrysene-d12	21.521	240	939807	20.000	ng		0.00
86) Perylene-d12	24.797	264	1134836	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.287	112	901449	80.721	ng		0.00
7) Phenol-d6	6.851	99	1072017	75.214	ng		0.00
23) Nitrobenzene-d5	8.810	82	716222	48.513	ng		0.00
42) 2,4,6-Tribromophenol	15.810	330	560459	73.593	ng		0.00
45) 2-Fluorobiphenyl	12.904	172	1399760	40.823	ng		0.00
79) Terphenyl-d14	19.815	244	1916783	34.972	ng		0.00
Target Compounds							Qvalue
32) Benzoic acid	9.769	122	416	7.513	ng	#	51
54) 2,4-Dinitrophenol	14.427	184	12	6.403	ng	#	1
56) 4-Nitrophenol	14.539	139	69	4.244	ng	#	1
71) Phenanthrene	17.133	178	129320	2.747	ng		99
72) Anthracene	17.133	178	129320	2.730	ng		99
75) Fluoranthene	19.221	202	294514	5.352	ng		98
78) Pyrene	19.598	202	235873	4.189	ng		99
81) Benzo(a)anthracene	21.504	228	129019	2.186	ng		92
83) Chrysene	21.568	228	132079	2.361	ng		97
88) Benzo(b)fluoranthene	23.774	252	211556	3.257	ng	#	94
89) Benzo(k)fluoranthene	23.774	252	211556	3.161	ng	#	94
90) Benzo(a)pyrene	24.645	252	127234	2.039	ng	#	92

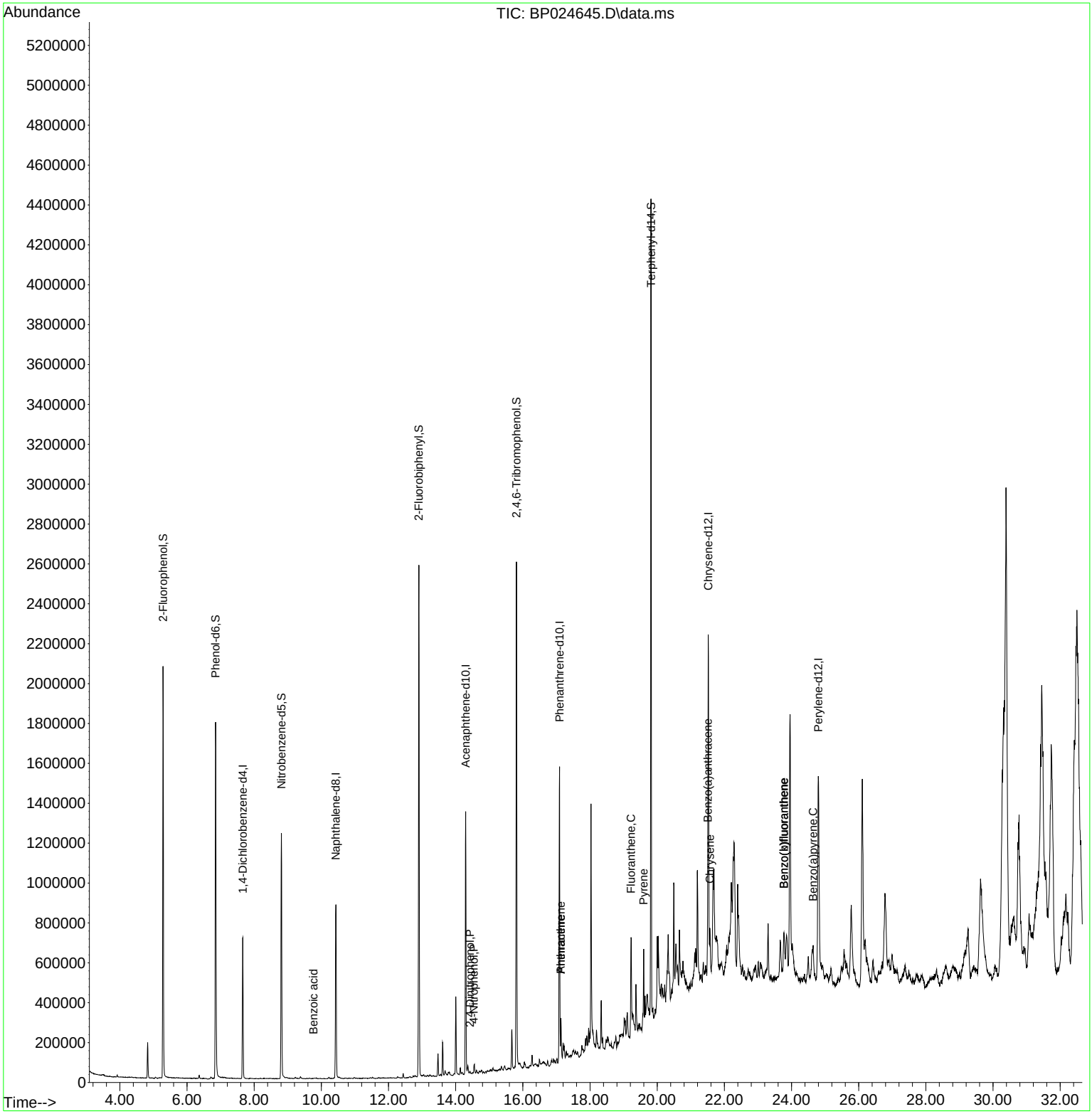
(#) = qualifier out of range (m) = manual integration (+) = signals summed

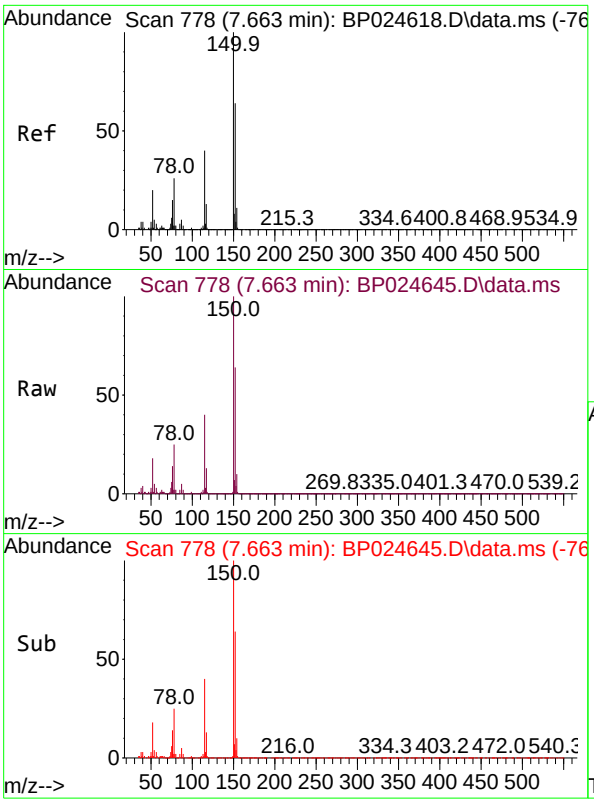
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP051525\
Data File : BP024645.D
Acq On : 15 May 2025 20:04
Operator : RC/JU
Sample : Q1984-13
Misc :
ALS Vial : 13 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Quant Time: May 16 01:17:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



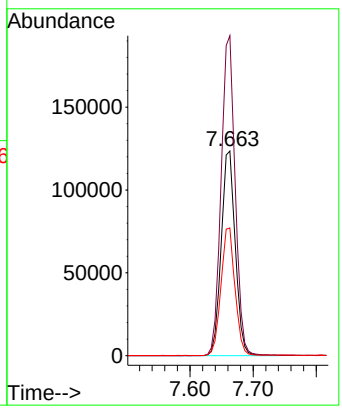


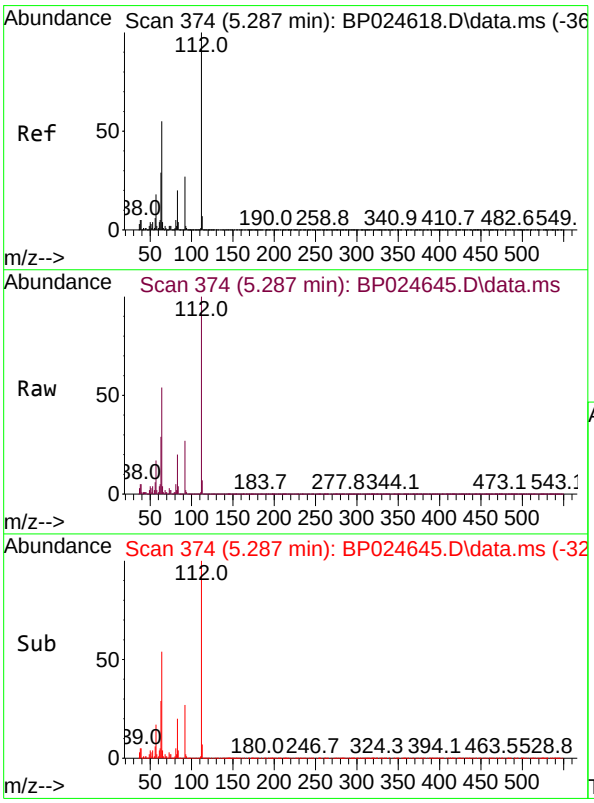
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.663 min Scan# 7
Delta R.T. 0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:152 Resp: 191006

Ion	Ratio	Lower	Upper
152	100		
150	156.4	125.9	188.9
115	62.4	50.1	75.1

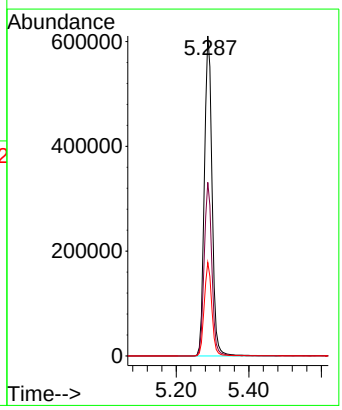


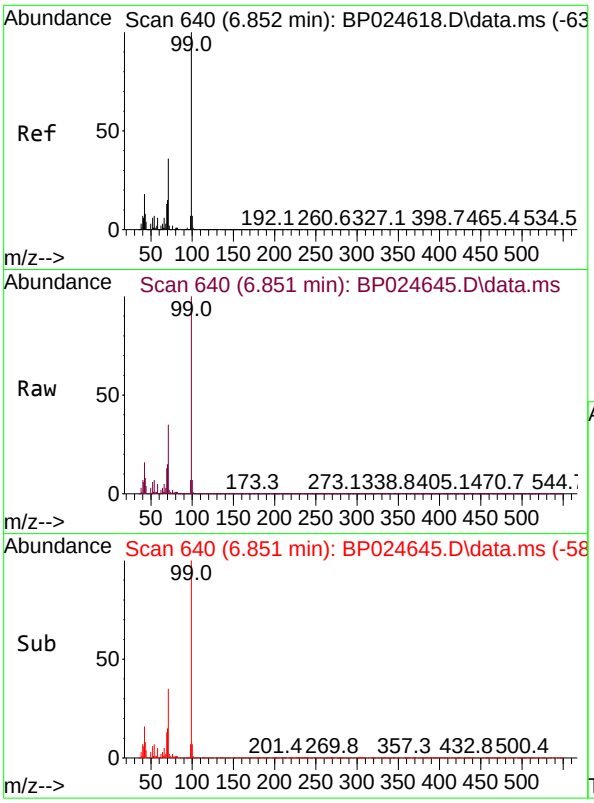


#5
2-Fluorophenol
Concen: 80.721 ng
RT: 5.287 min Scan# 374
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:112 Resp: 901449

Ion	Ratio	Lower	Upper
112	100		
64	54.2	44.1	66.1
63	29.2	23.5	35.3



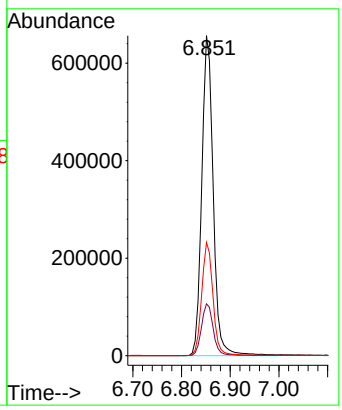


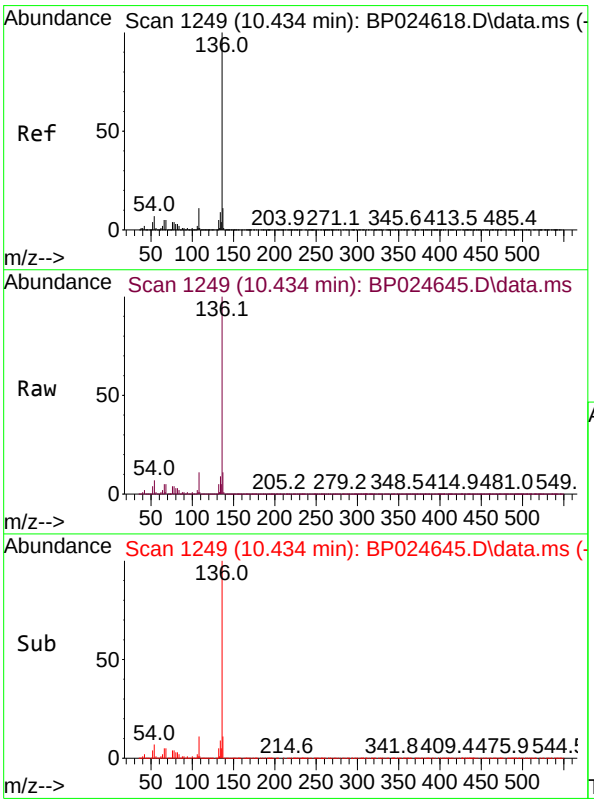
#7
Phenol-d6
Concen: 75.214 ng
RT: 6.851 min Scan# 64
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion: 99 Resp: 1072017

Ion	Ratio	Lower	Upper
99	100		
42	16.2	14.4	21.6
71	35.4	29.2	43.8

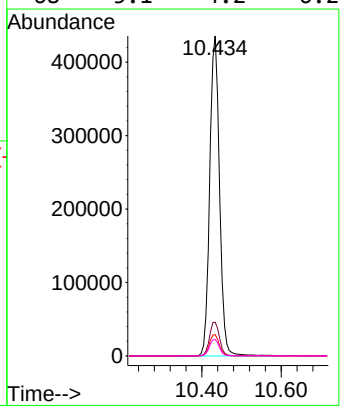


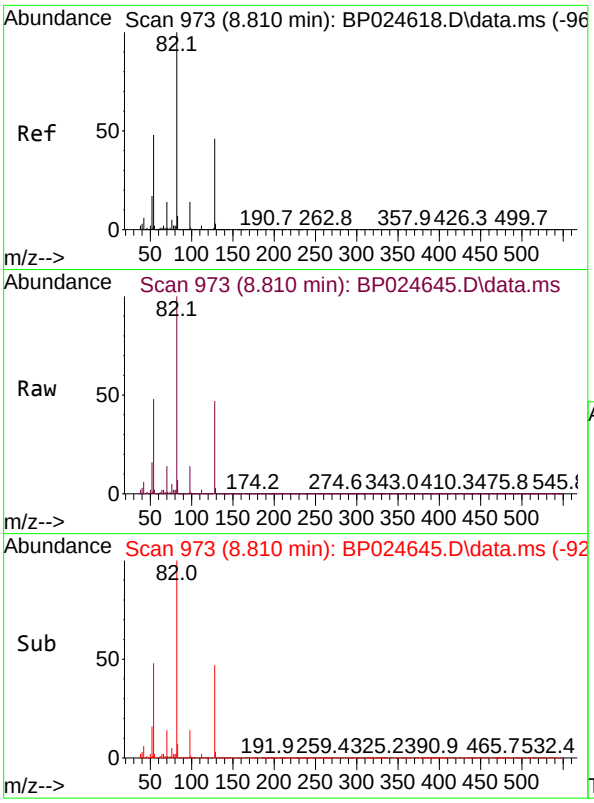


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.434 min Scan# 1249
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:136 Resp: 745950

Ion	Ratio	Lower	Upper
136	100		
137	10.6	8.8	13.2
54	6.7	5.5	8.3
68	5.1	4.2	6.2



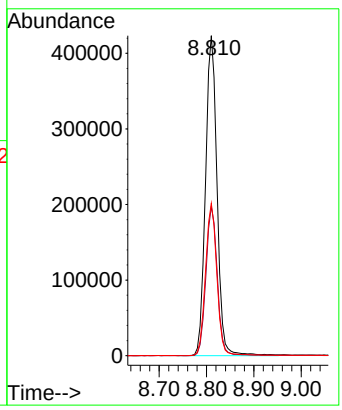


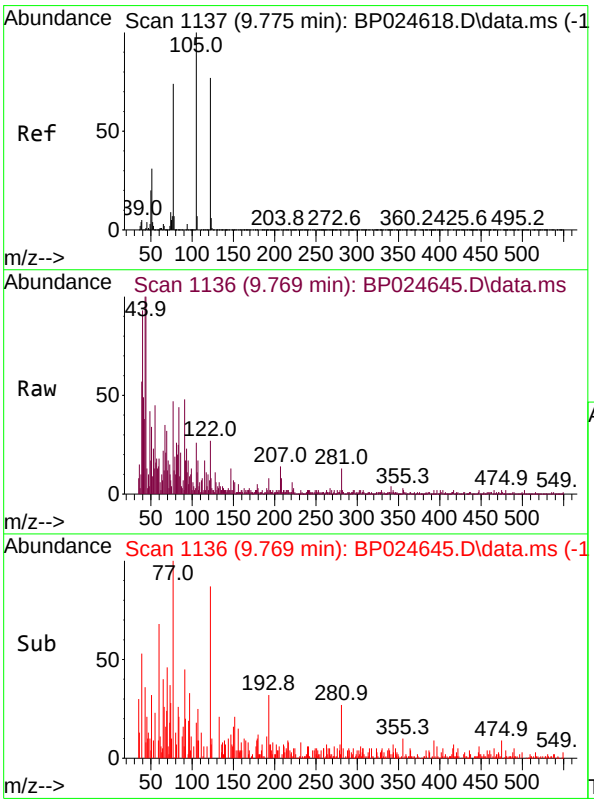
#23
Nitrobenzene-d5
Concen: 48.513 ng
RT: 8.810 min Scan# 9
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion: 82 Resp: 716222

Ion	Ratio	Lower	Upper
82	100		
128	46.6	37.0	55.4
54	47.6	38.7	58.1

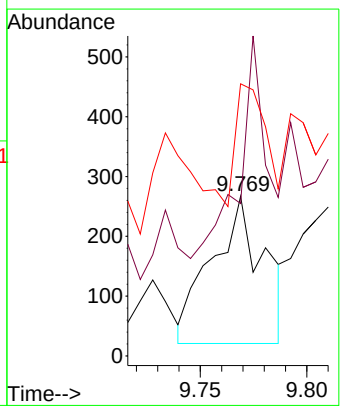


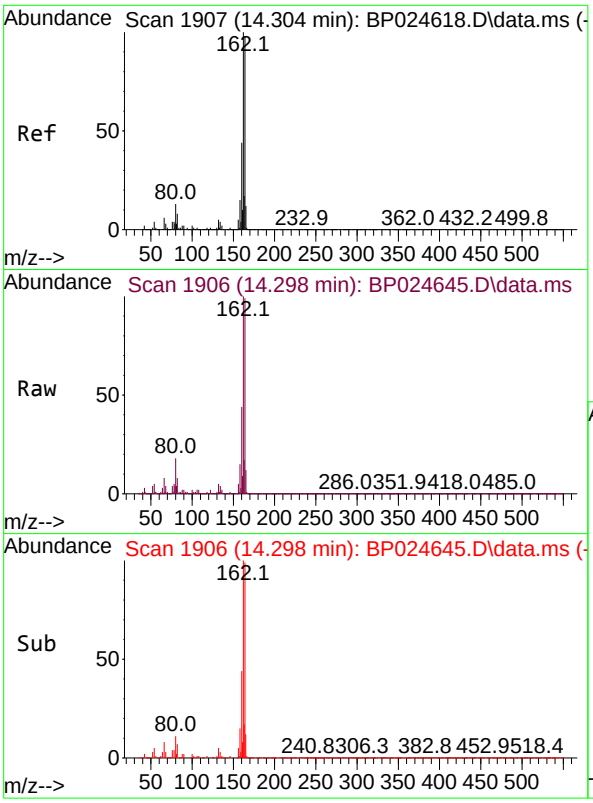


#32
Benzoic acid
Concen: 7.513 ng
RT: 9.769 min Scan# 1136
Delta R.T. -0.006 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:122 Resp: 416

Ion	Ratio	Lower	Upper
122	100		
105	95.5	106.9	146.9#
77	170.4	75.1	115.1#



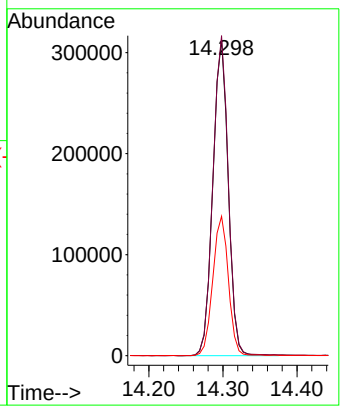


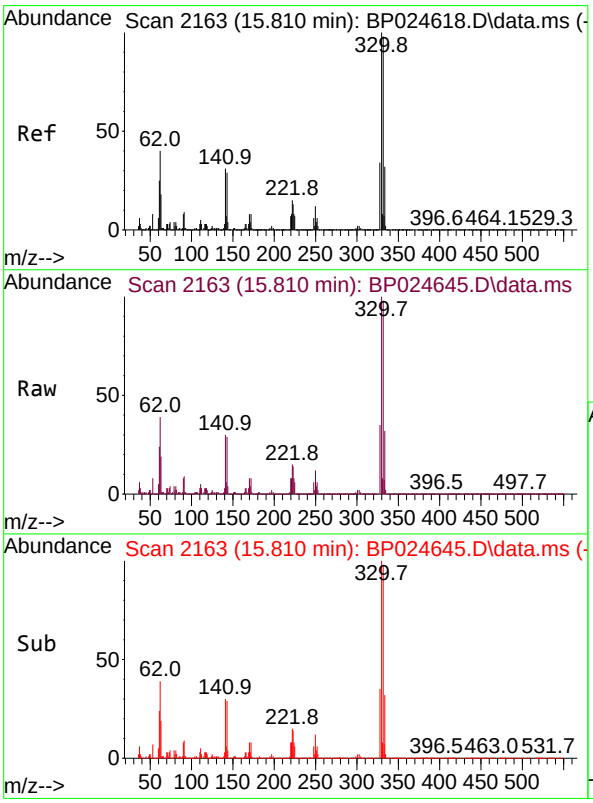
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.298 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:164 Resp: 449224

Ion	Ratio	Lower	Upper
164	100		
162	101.3	81.8	122.6
160	44.1	36.3	54.5

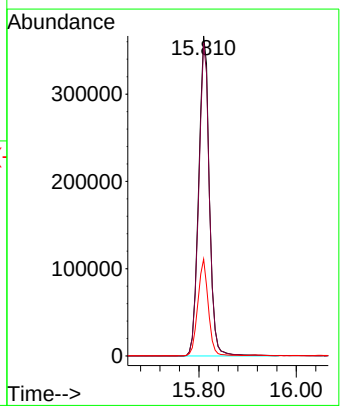


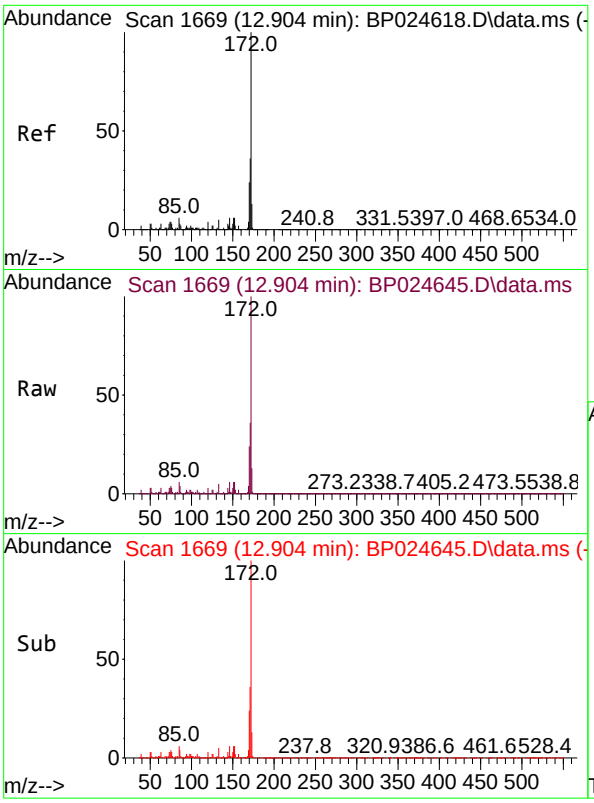


#42
2,4,6-Tribromophenol
Concen: 73.593 ng
RT: 15.810 min Scan# 2163
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:330 Resp: 560459

Ion	Ratio	Lower	Upper
330	100		
332	96.8	78.2	117.4
141	29.4	24.3	36.5



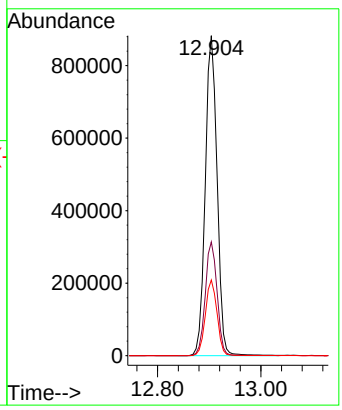


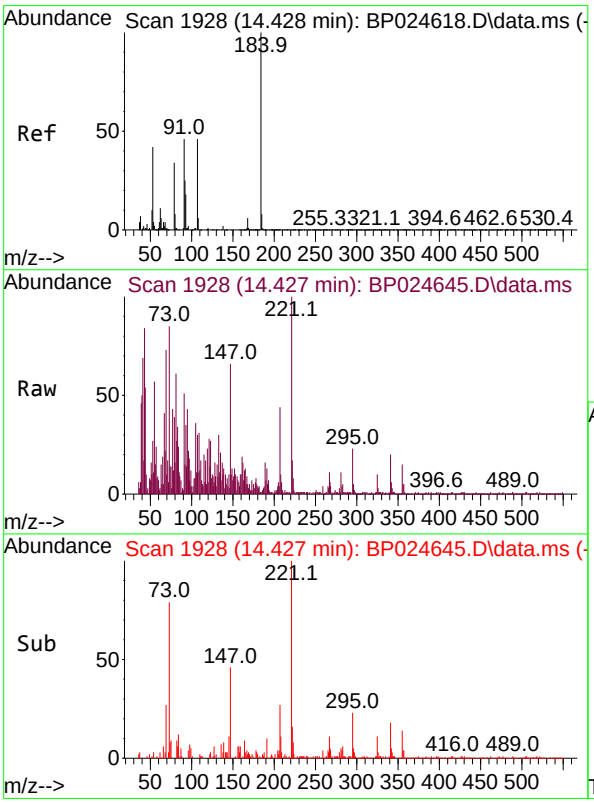
#45
2-Fluorobiphenyl
Concen: 40.823 ng
RT: 12.904 min Scan# 1
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:172 Resp: 1399760

Ion	Ratio	Lower	Upper
172	100		
171	35.5	28.8	43.2
170	23.6	18.8	28.2

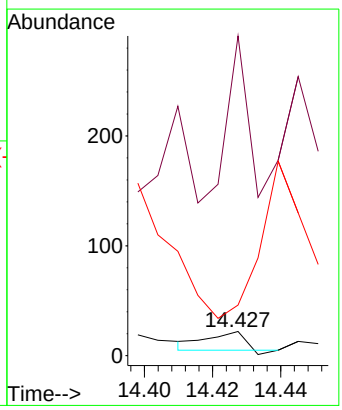


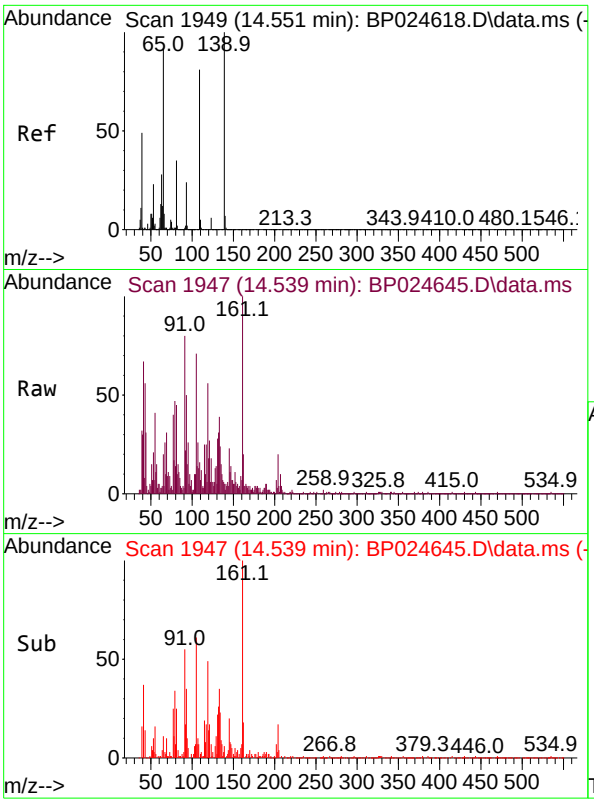


#54
2,4-Dinitrophenol
Concen: 6.403 ng
RT: 14.427 min Scan# 1928
Delta R.T. -0.001 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:184 Resp: 12

Ion	Ratio	Lower	Upper
184	100		
63	1322.7	51.3	76.9#
154	209.1	53.5	80.3#



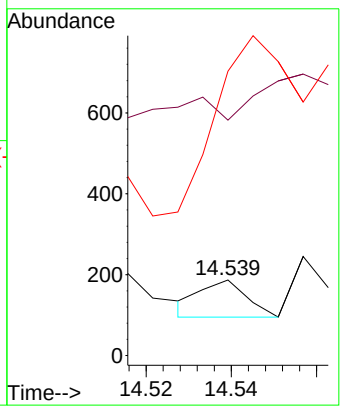


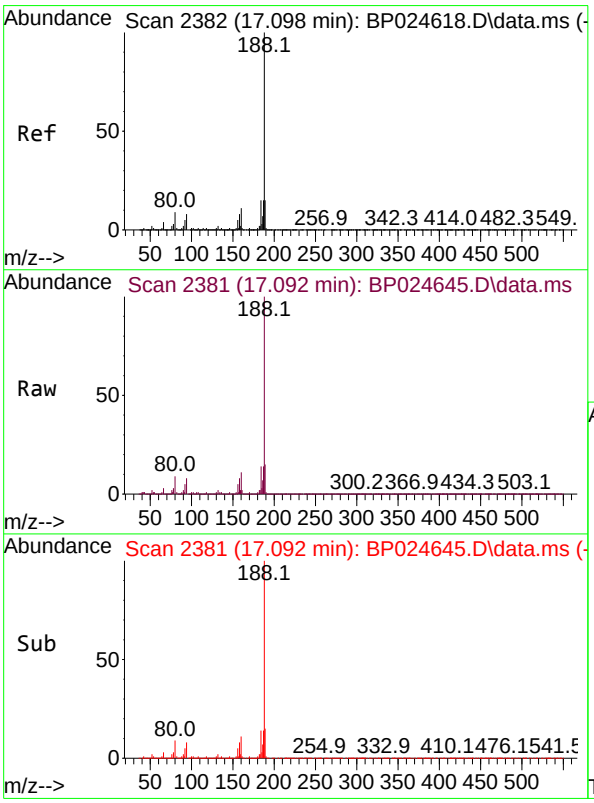
#56
4-Nitrophenol
Concen: 4.244 ng
RT: 14.539 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:139 Resp: 69

Ion	Ratio	Lower	Upper
139	100		
109	311.2	61.4	101.4#
65	375.9	72.2	112.2#

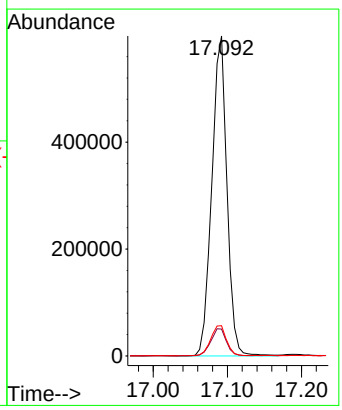


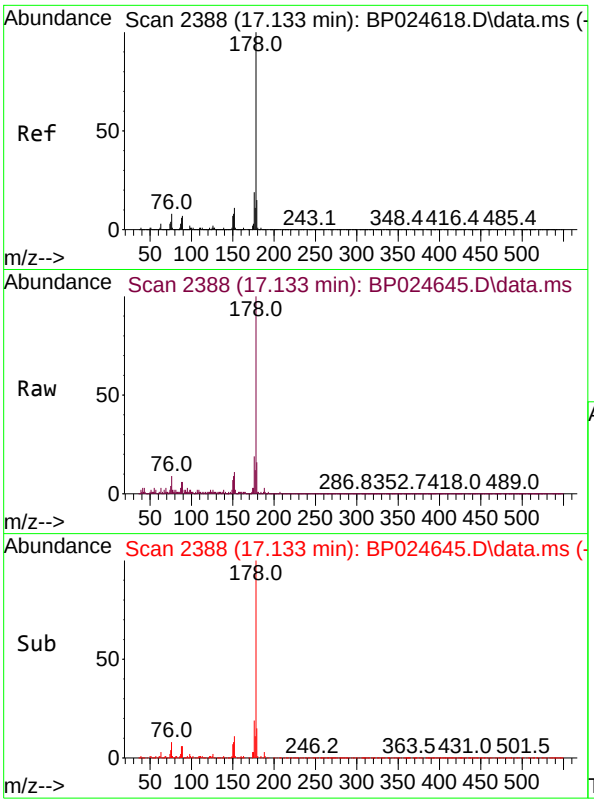


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.092 min Scan# 2381
Delta R.T. -0.006 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:188 Resp: 846872

Ion	Ratio	Lower	Upper
188	100		
94	8.4	6.5	9.7
80	9.5	7.3	10.9



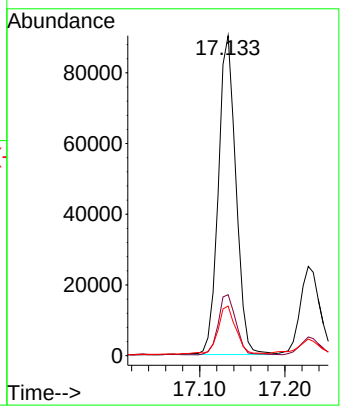


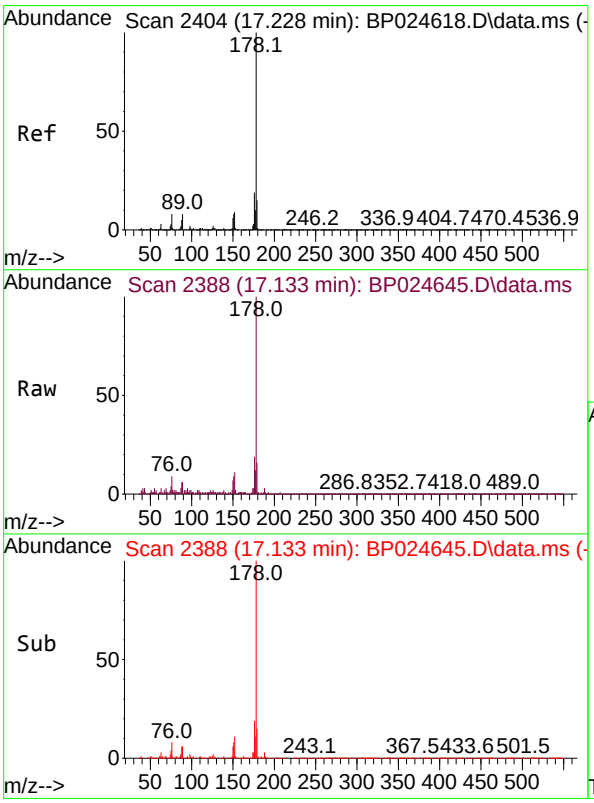
#71
Phenanthrene
Concen: 2.747 ng
RT: 17.133 min Scan# 2
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:178 Resp: 129320

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.5	12.2	18.4

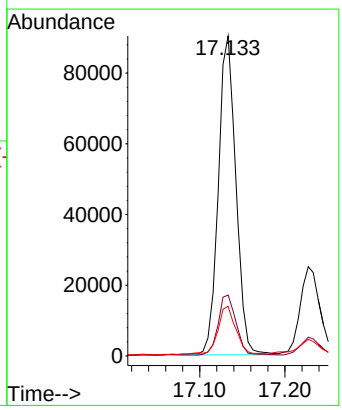


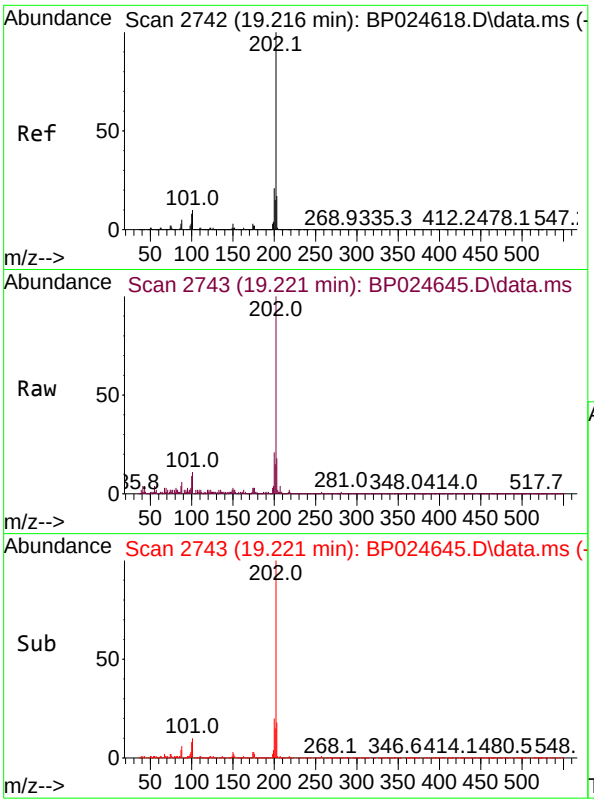


#72
Anthracene
Concen: 2.730 ng
RT: 17.133 min Scan# 2388
Delta R.T. -0.094 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:178 Resp: 129320

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.0	22.4
179	15.5	12.2	18.2



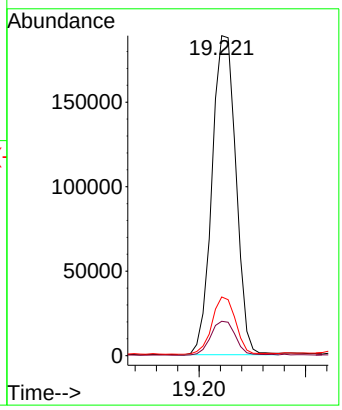


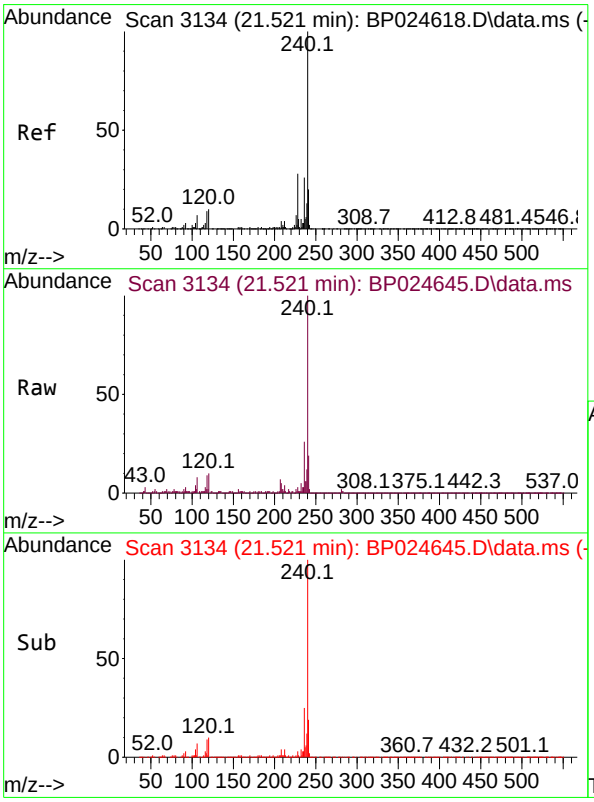
#75
Fluoranthene
Concen: 5.352 ng
RT: 19.221 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:202 Resp: 294514

Ion	Ratio	Lower	Upper
202	100		
101	10.7	0.0	30.3
203	18.4	0.0	37.5

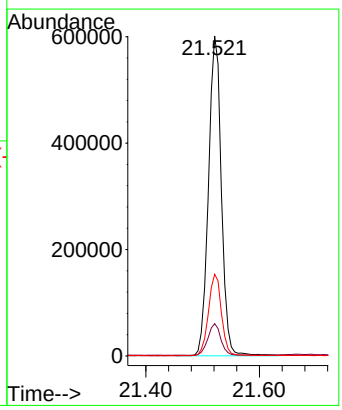


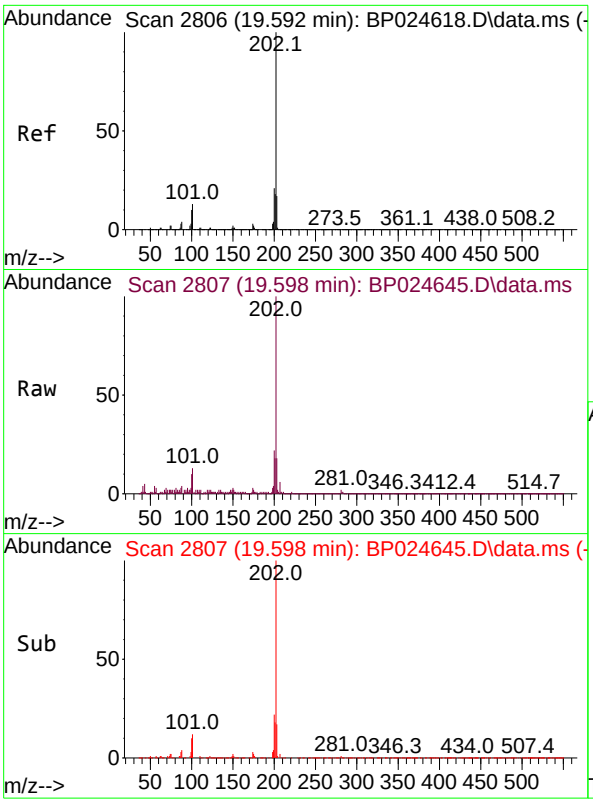


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.521 min Scan# 3134
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:240 Resp: 939807

Ion	Ratio	Lower	Upper
240	100		
120	10.1	7.8	11.6
236	25.5	20.6	31.0



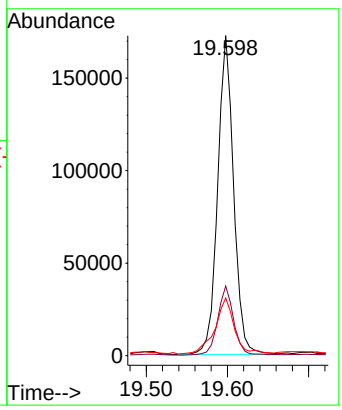


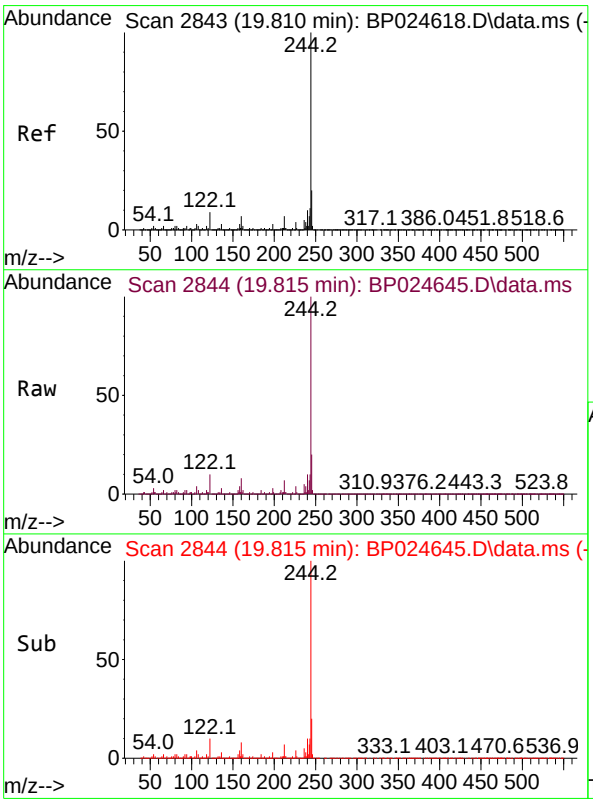
#78
Pyrene
Concen: 4.189 ng
RT: 19.598 min Scan# 2
Delta R.T. 0.006 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:202 Resp: 235873

Ion	Ratio	Lower	Upper
202	100		
200	21.7	16.9	25.3
203	18.1	13.9	20.9

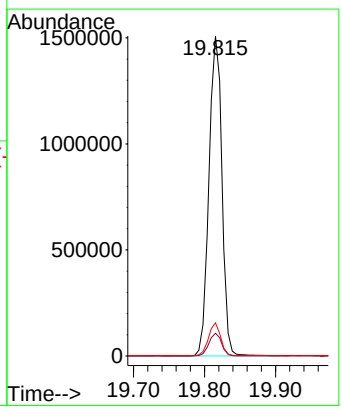


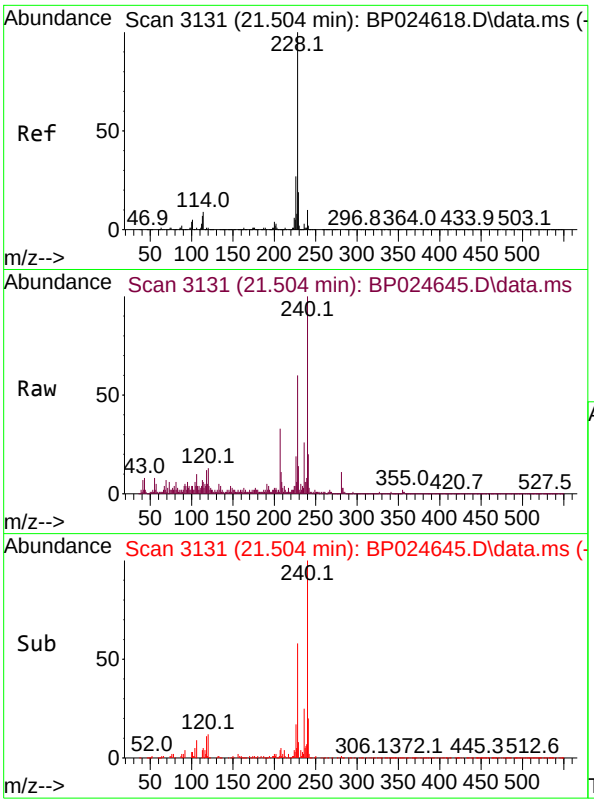


#79
Terphenyl-d14
Concen: 34.972 ng
RT: 19.815 min Scan# 2844
Delta R.T. 0.006 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:244 Resp: 1916783

Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.5	8.3
122	10.4	7.4	11.0



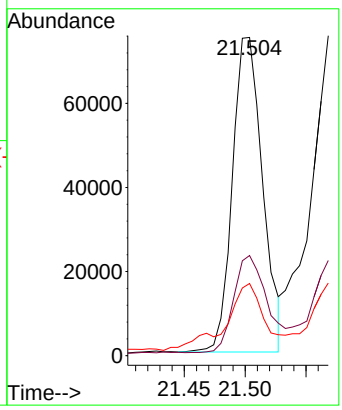


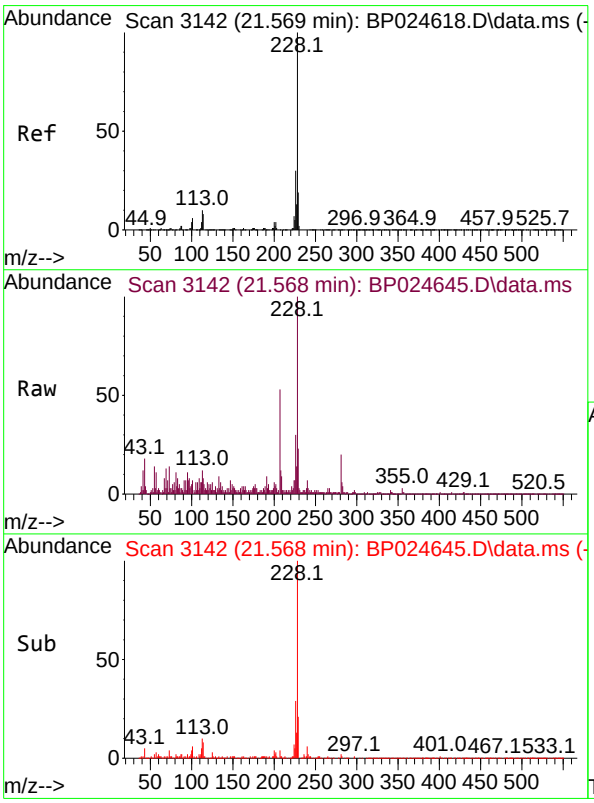
#81
Benzo(a)anthracene
Concen: 2.186 ng
RT: 21.504 min Scan# 3
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:228 Resp: 129019

Ion	Ratio	Lower	Upper
228	100		
226	31.5	21.4	32.0
229	22.7	15.5	23.3

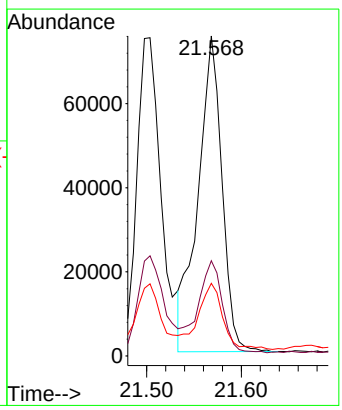


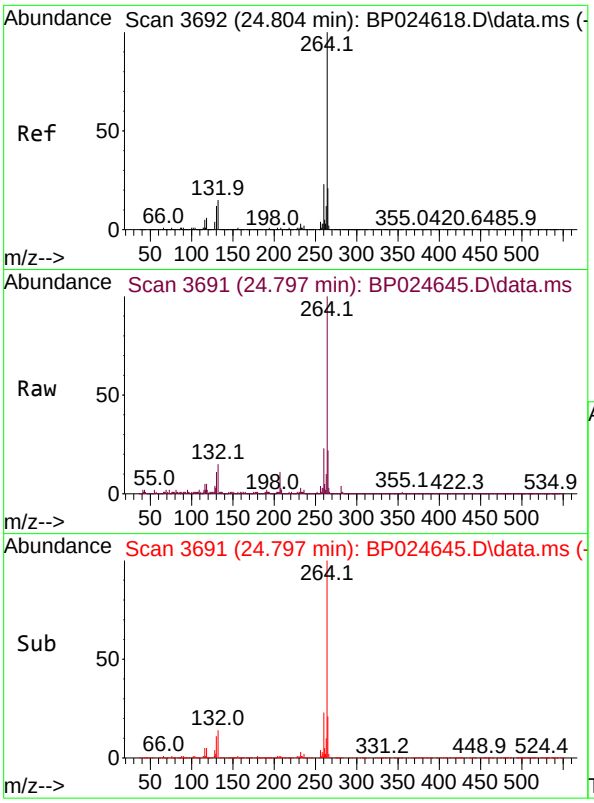


#83
Chrysene
Concen: 2.361 ng
RT: 21.568 min Scan# 3142
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:228 Resp: 132079

Ion	Ratio	Lower	Upper
228	100		
226	29.7	23.9	35.9
229	22.7	15.5	23.3



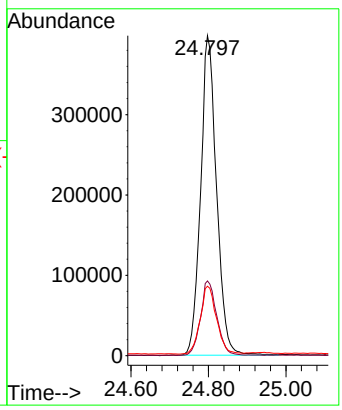


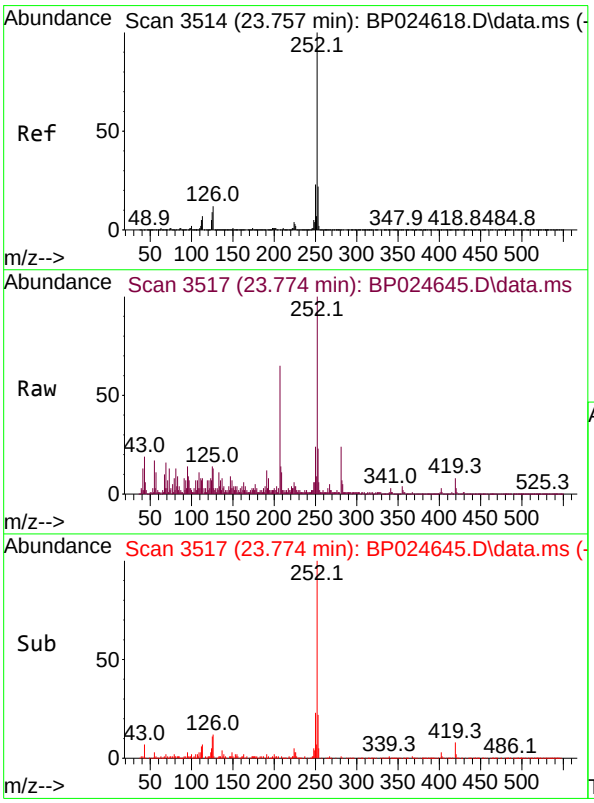
#86
Perylene-d12
Concen: 20.000 ng
RT: 24.797 min Scan# 3
Delta R.T. -0.006 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:264 Resp: 1134836

Ion	Ratio	Lower	Upper
264	100		
260	23.4	18.7	28.1
265	21.7	17.0	25.6

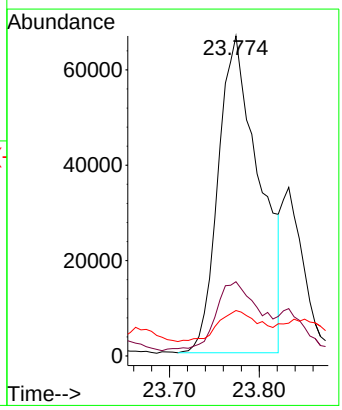


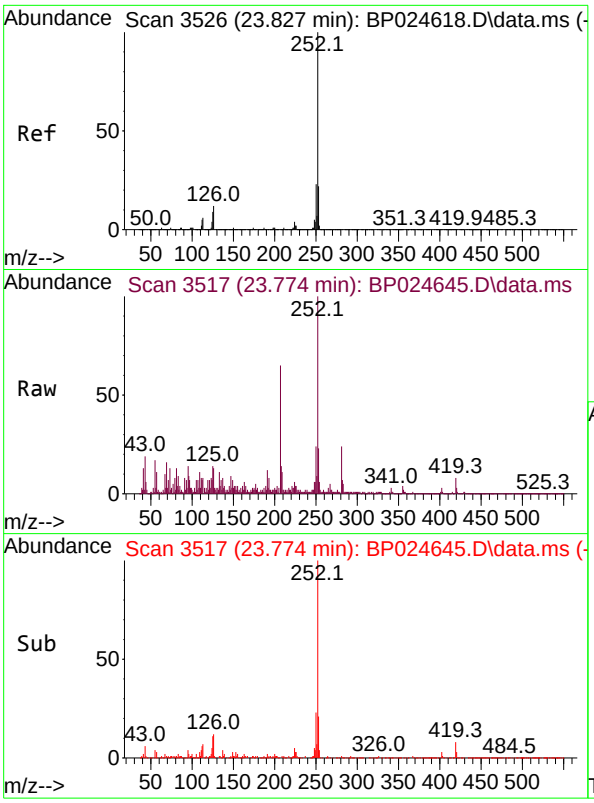


#88
Benzo(b)fluoranthene
Concen: 3.257 ng
RT: 23.774 min Scan# 3517
Delta R.T. 0.017 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:252 Resp: 211556

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.7	26.5
125	14.2	7.5	11.3#



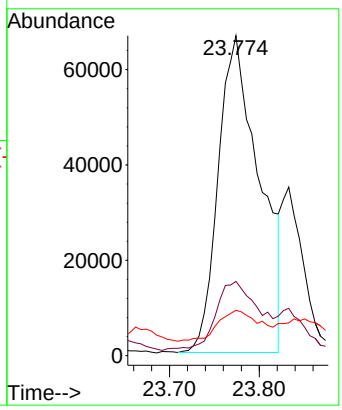


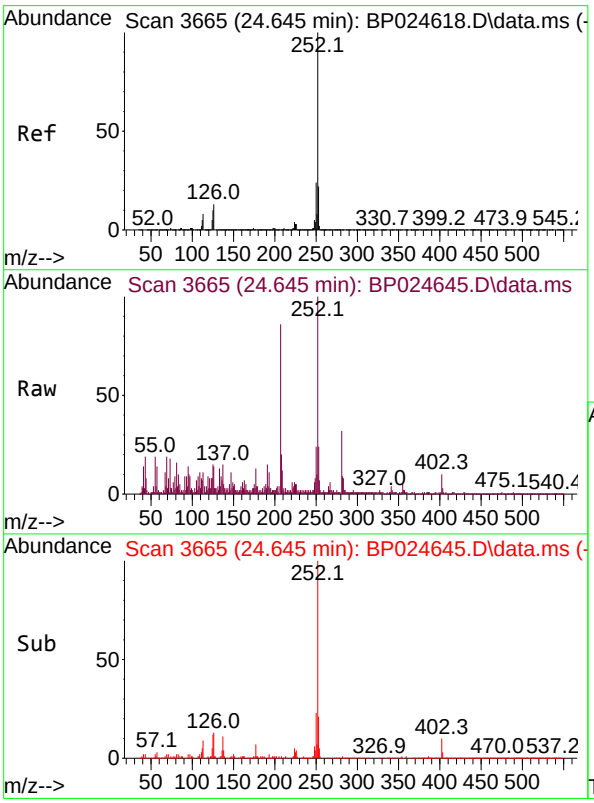
#89
Benzo(k)fluoranthene
Concen: 3.161 ng
RT: 23.774 min Scan# 3
Delta R.T. -0.053 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Instrument :
BNA_P
ClientSampleId :
OU4-TS-27-050725

Tgt Ion:252 Resp: 211556

Ion	Ratio	Lower	Upper
252	100		
253	23.2	17.6	26.4
125	14.2	7.0	10.4#

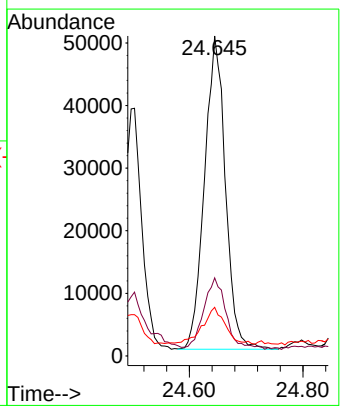




#90
Benzo(a)pyrene
Concen: 2.039 ng
RT: 24.645 min Scan# 3665
Delta R.T. -0.000 min
Lab File: BP024645.D
Acq: 15 May 2025 20:04

Tgt Ion:252 Resp: 127234

Ion	Ratio	Lower	Upper
252	100		
253	24.4	17.7	26.5
125	15.2	8.1	12.1#



Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024735.D
Acq On : 21 May 2025 10:56
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: May 21 12:14:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.652	152	135470	20.000	ng	-0.01
21) Naphthalene-d8	10.422	136	549948	20.000	ng	-0.01
39) Acenaphthene-d10	14.281	164	350452	20.000	ng	-0.02
64) Phenanthrene-d10	17.069	188	669288	20.000	ng	-0.03
76) Chrysene-d12	21.504	240	774145	20.000	ng	-0.02
86) Perylene-d12	24.774	264	911806	20.000	ng	-0.03
System Monitoring Compounds						
5) 2-Fluorophenol	5.287	112	593223	74.897	ng	0.00
7) Phenol-d6	6.858	99	730350	72.249	ng	0.00
23) Nitrobenzene-d5	8.805	82	779316	71.600	ng	0.00
42) 2,4,6-Tribromophenol	15.798	330	523753	88.157	ng	-0.01
45) 2-Fluorobiphenyl	12.893	172	2114301	79.041	ng	-0.01
79) Terphenyl-d14	19.798	244	3589958	79.516	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	3.223	88	123293	33.150	ng	97
3) Pyridine	3.617	79	275450	33.400	ng	92
4) n-Nitrosodimethylamine	3.528	42	134730	37.005	ng	87
6) Aniline	6.993	93	446155	34.185	ng	99
8) 2-Chlorophenol	7.234	128	346587	38.546	ng	96
9) Benzaldehyde	6.811	77	223602	34.170	ng	96
10) Phenol	6.881	94	362241	34.719	ng	96
11) bis(2-Chloroethyl)ether	7.087	93	282191	32.916	ng	98
12) 1,3-Dichlorobenzene	7.546	146	388903	37.594	ng	98
13) 1,4-Dichlorobenzene	7.687	146	393029	37.775	ng	99
14) 1,2-Dichlorobenzene	7.999	146	374925	36.981	ng	99
15) Benzyl Alcohol	7.899	79	275177	35.822	ng	98
16) 2,2'-oxybis(1-Chloropr...	8.169	45	330517	32.192	ng	99
17) 2-Methylphenol	8.111	107	266596	35.626	ng	99
18) Hexachloroethane	8.716	117	143486	35.988	ng	96
19) n-Nitroso-di-n-propyla...	8.458	70	220282	31.502	ng	94
20) 3+4-Methylphenols	8.440	107	366912	36.045	ng	98
22) Acetophenone	8.469	105	496987	36.178	ng	98
24) Nitrobenzene	8.846	77	334187	34.890	ng	93
25) Isophorone	9.363	82	631557	33.451	ng	97
26) 2-Nitrophenol	9.552	139	193720	41.274	ng	96
27) 2,4-Dimethylphenol	9.616	122	315631	38.142	ng	99
28) bis(2-Chloroethoxy)met...	9.840	93	383129	33.966	ng	99
29) 2,4-Dichlorophenol	10.099	162	325837	40.632	ng	96
30) 1,2,4-Trichlorobenzene	10.287	180	361969	40.056	ng	95
31) Naphthalene	10.475	128	1071970	37.615	ng	100
32) Benzoic acid	9.752	122	25462	11.200	ng	83
33) 4-Chloroaniline	10.593	127	443925	38.602	ng	97
34) Hexachlorobutadiene	10.752	225	245271	41.898	ng	97
35) Caprolactam	11.393	113	102330	35.270	ng	96
36) 4-Chloro-3-methylphenol	11.740	107	361130	36.928	ng	99
37) 2-Methylnaphthalene	12.081	142	688580	37.315	ng	100
38) 1-Methylnaphthalene	12.304	142	732371	37.092	ng	99
40) 1,2,4,5-Tetrachloroben...	12.457	216	421830	41.450	ng	99
41) Hexachlorocyclopentadiene	12.434	237	199324	32.301	ng	98
43) 2,4,6-Trichlorophenol	12.716	196	278066	42.185	ng	98

Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024735.D
Acq On : 21 May 2025 10:56
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: May 21 12:14:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	12.804	196	302556	41.236	ng		96
46) 1,1'-Biphenyl	13.104	154	996616	38.476	ng		98
47) 2-Chloronaphthalene	13.146	162	762202	38.593	ng		99
48) 2-Nitroaniline	13.363	65	209721	35.867	ng		94
49) Acenaphthylene	14.004	152	1247255	37.738	ng		99
50) Dimethylphthalate	13.746	163	978456	36.630	ng		99
51) 2,6-Dinitrotoluene	13.863	165	212716	37.707	ng		98
52) Acenaphthene	14.346	154	723732	38.090	ng		99
53) 3-Nitroaniline	14.204	138	217767	37.805	ng		96
54) 2,4-Dinitrophenol	14.440	184	15696	10.460	ng		97
55) Dibenzofuran	14.687	168	1145935	37.811	ng		98
56) 4-Nitrophenol	14.575	139	141573	31.121	ng		96
57) 2,4-Dinitrotoluene	14.663	165	303730	38.189	ng		97
58) Fluorene	15.345	166	934089	37.799	ng		100
59) 2,3,4,6-Tetrachlorophenol	14.928	232	274380	40.312	ng		93
60) Diethylphthalate	15.122	149	984129	36.452	ng		99
61) 4-Chlorophenyl-phenyle...	15.340	204	474594	38.510	ng		99
62) 4-Nitroaniline	15.381	138	220352	39.618	ng		96
63) Azobenzene	15.640	77	751086	32.520	ng		93
65) 4,6-Dinitro-2-methylph...	15.445	198	53443	12.362	ng		96
66) n-Nitrosodiphenylamine	15.563	169	787025	38.283	ng		98
67) 4-Bromophenyl-phenylether	16.251	248	332056	42.104	ng		94
68) Hexachlorobenzene	16.369	284	429807	42.889	ng		94
69) Atrazine	16.540	200	303928	40.341	ng		100
70) Pentachlorophenol	16.734	266	181388	32.244	ng		99
71) Phenanthrene	17.116	178	1423885	38.270	ng		100
72) Anthracene	17.210	178	1443108	38.551	ng		100
73) Carbazole	17.498	167	1325255	39.114	ng		99
74) Di-n-butylphthalate	18.081	149	1687862	38.735	ng		99
75) Fluoranthene	19.198	202	1701643	39.125	ng		98
77) Benzidine	19.404	184	880033	41.738	ng		99
78) Pyrene	19.575	202	1746108	37.644	ng		100
80) Butylbenzylphthalate	20.533	149	770766	37.363	ng		90
81) Benzo(a)anthracene	21.486	228	1841586	37.885	ng		100
82) 3,3'-Dichlorobenzidine	21.410	252	751644	41.632	ng		98
83) Chrysene	21.545	228	1725888	37.454	ng		99
84) Bis(2-ethylhexyl)phtha...	21.416	149	1181419	38.963	ng		100
85) Di-n-octyl phthalate	22.663	149	1962163	39.572	ng		99
87) Indeno(1,2,3-cd)pyrene	28.509	276	2602162	39.091	ng	#	88
88) Benzo(b)fluoranthene	23.745	252	1972108	37.787	ng		98
89) Benzo(k)fluoranthene	23.816	252	2043746	38.003	ng		99
90) Benzo(a)pyrene	24.627	252	1928078	38.466	ng		98
91) Dibenzo(a,h)anthracene	28.557	278	2131169	39.353	ng		98
92) Benzo(g,h,i)perylene	29.645	276	2081468	38.650	ng		97

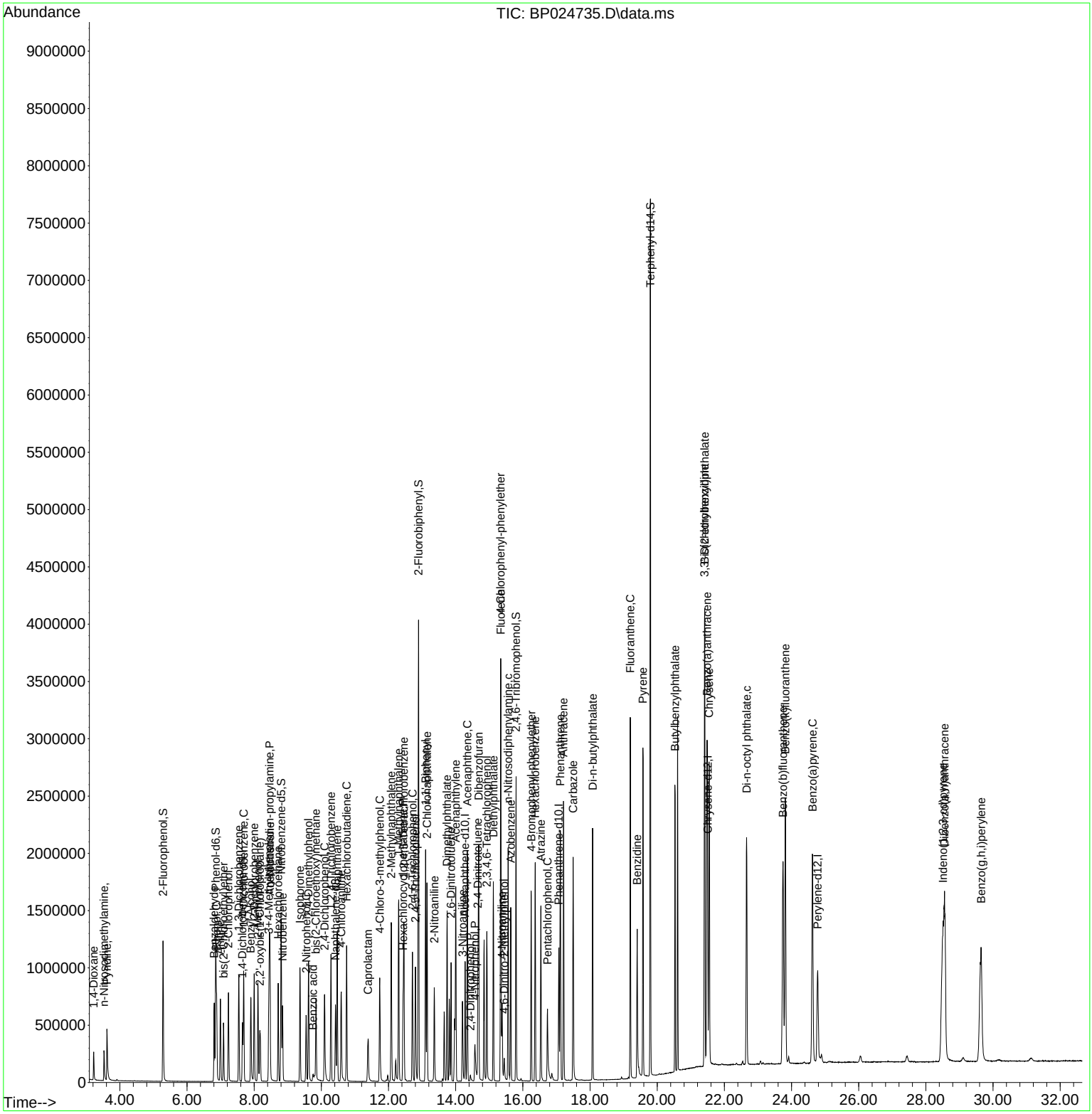
(#) = qualifier out of range (m) = manual integration (+) = signals summed

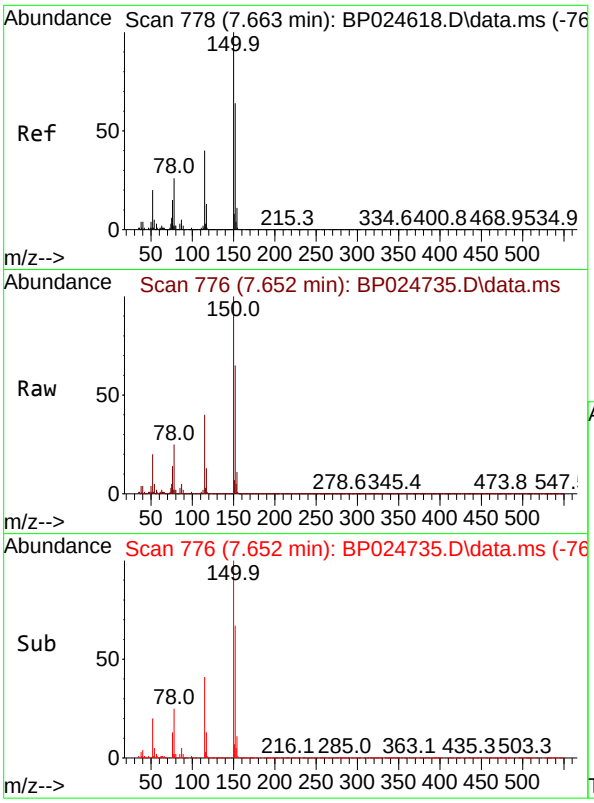
Quantitation Report (Not Reviewed)

Data Path : Z:\svoasrv\HPCHEM1\BNA_P\Data\BP052025\
Data File : BP024735.D
Acq On : 21 May 2025 10:56
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 36 Sample Multiplier: 1

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Quant Time: May 21 12:14:54 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_P\Methods\8270E-BP051325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 13 16:21:39 2025
Response via : Initial Calibration



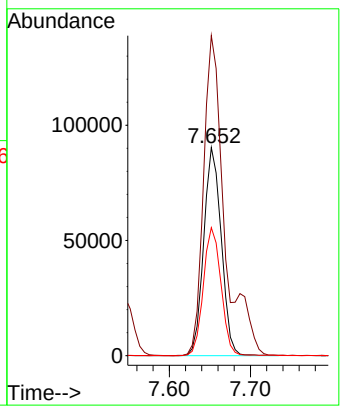


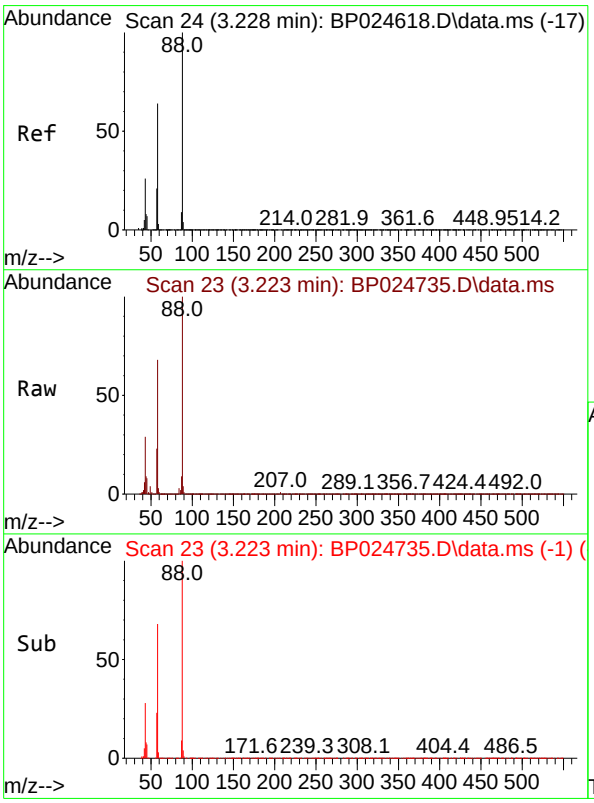
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 7.652 min Scan# 7
Delta R.T. -0.011 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 135470

Ion	Ratio	Lower	Upper
152	100		
150	153.7	125.9	188.9
115	61.4	50.1	75.1

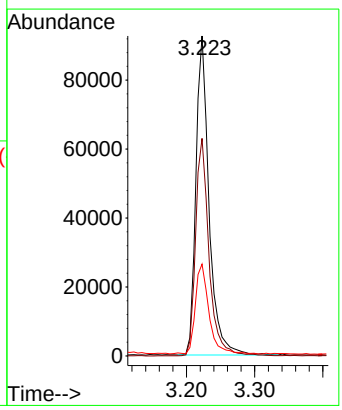


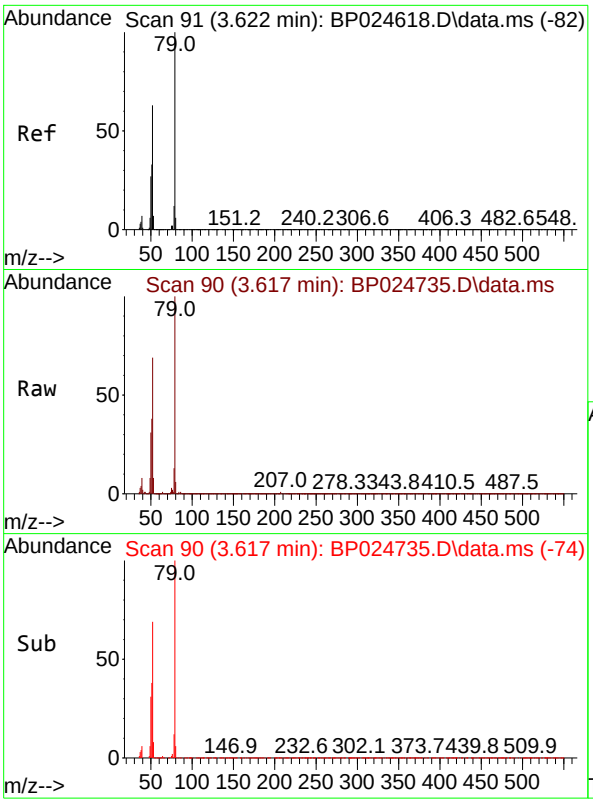


#2
1,4-Dioxane
Concen: 33.150 ng
RT: 3.223 min Scan# 23
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 88 Resp: 123293

Ion	Ratio	Lower	Upper
88	100		
58	69.7	54.0	81.0
43	29.2	21.4	32.0



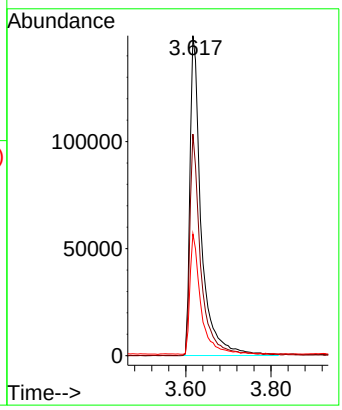


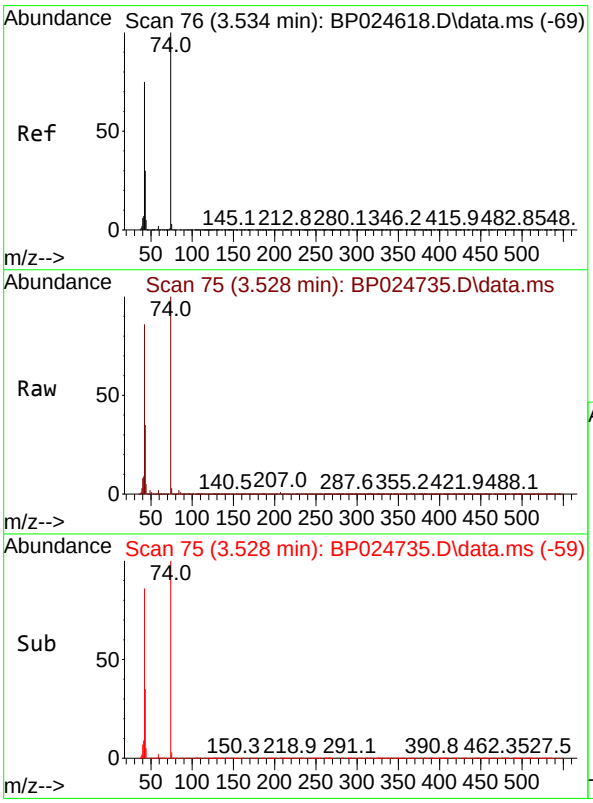
#3
Pyridine
Concen: 33.400 ng
RT: 3.617 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 275450

Ion	Ratio	Lower	Upper
79	100		
52	69.2	50.2	75.2
51	38.1	26.8	40.2

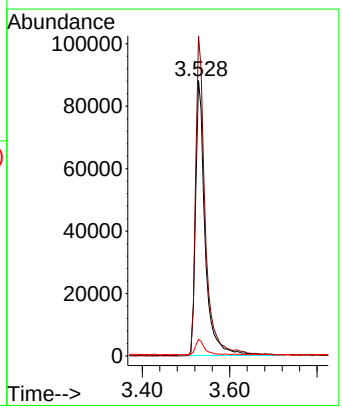


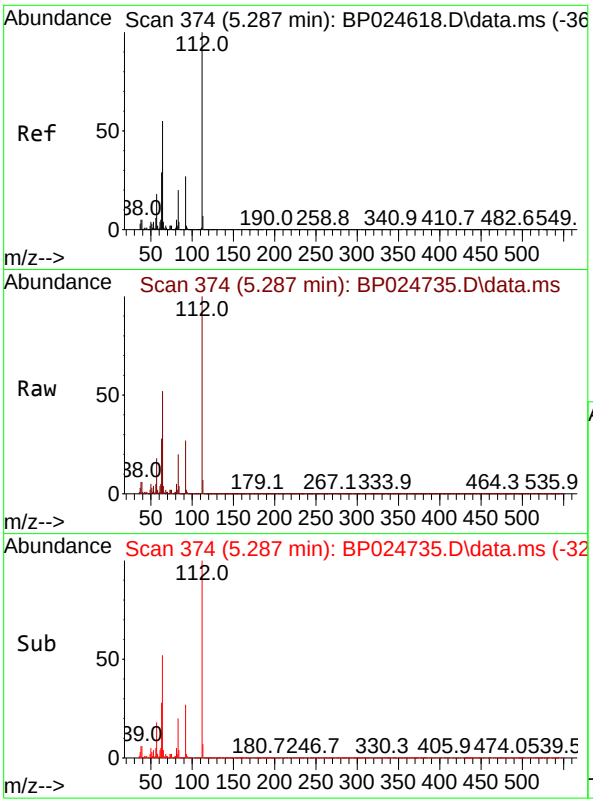


#4
n-Nitrosodimethylamine
Concen: 37.005 ng
RT: 3.528 min Scan# 75
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 42 Resp: 134730

Ion	Ratio	Lower	Upper
42	100		
74	116.2	106.2	159.2
44	6.0	5.4	8.2



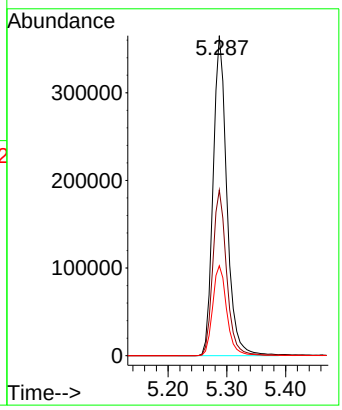


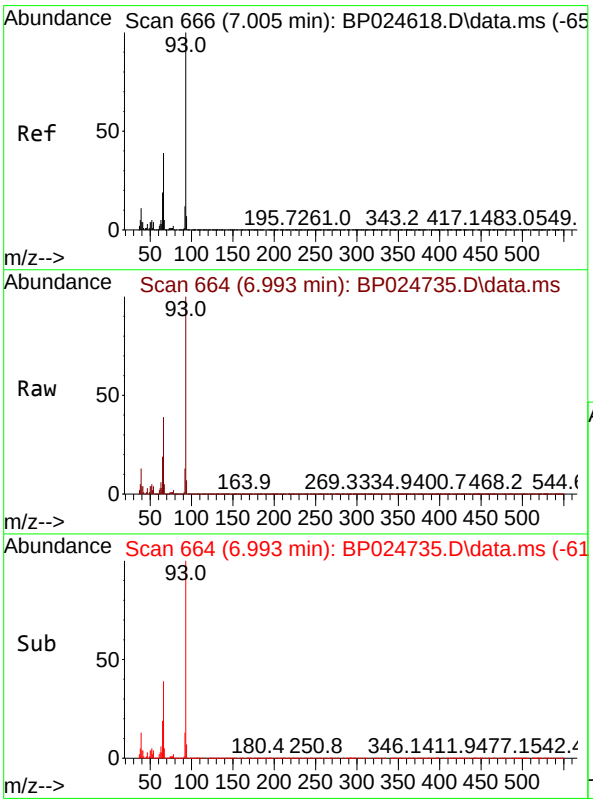
#5
2-Fluorophenol
Concen: 74.897 ng
RT: 5.287 min Scan# 3
Delta R.T. 0.000 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:112 Resp: 593223

Ion	Ratio	Lower	Upper
112	100		
64	51.8	44.1	66.1
63	28.1	23.5	35.3

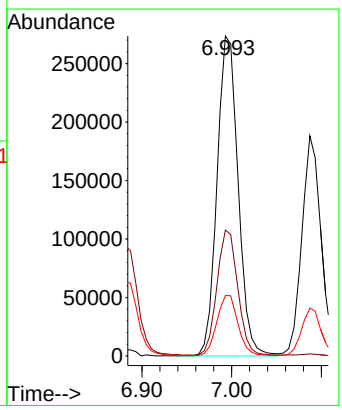


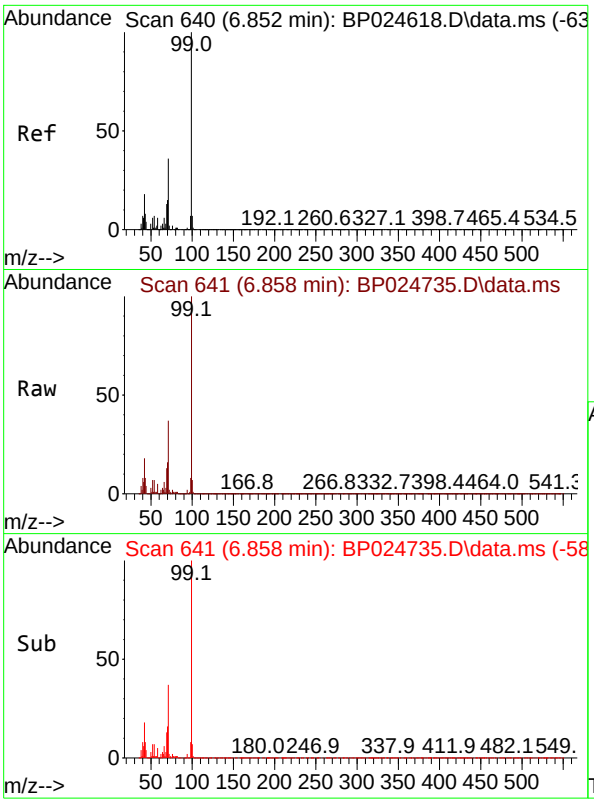


#6
Aniline
Concen: 34.185 ng
RT: 6.993 min Scan# 664
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 93 Resp: 446155

Ion	Ratio	Lower	Upper
93	100		
66	39.3	31.0	46.6
65	18.9	15.5	23.3



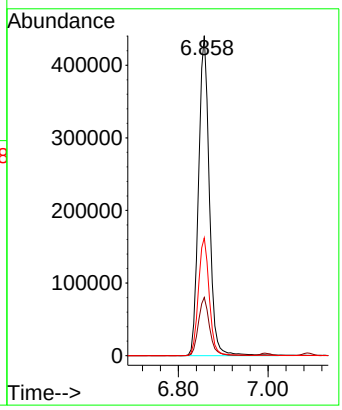


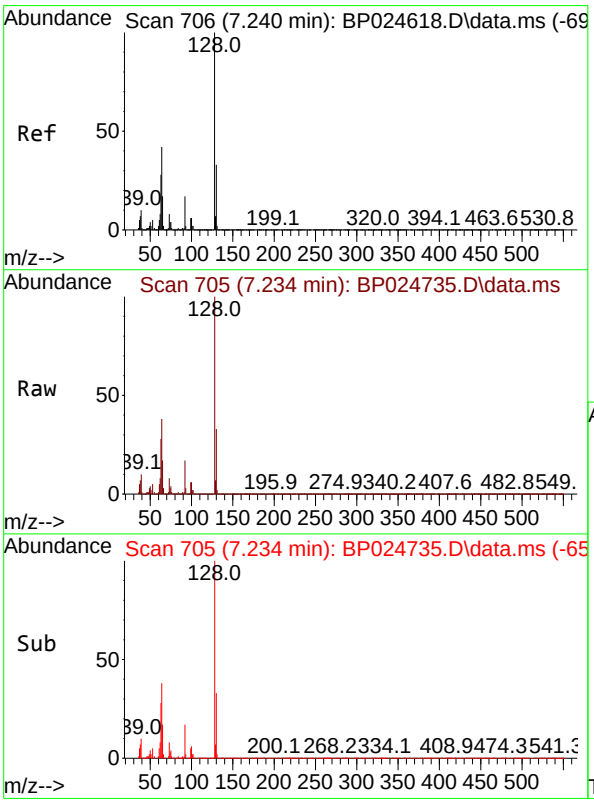
#7
Phenol-d6
Concen: 72.249 ng
RT: 6.858 min Scan# 64
Delta R.T. 0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 99 Resp: 730350

Ion	Ratio	Lower	Upper
99	100		
42	18.2	14.4	21.6
71	36.8	29.2	43.8

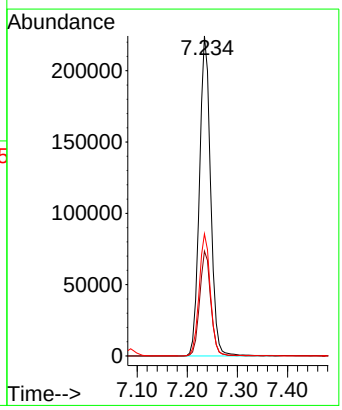


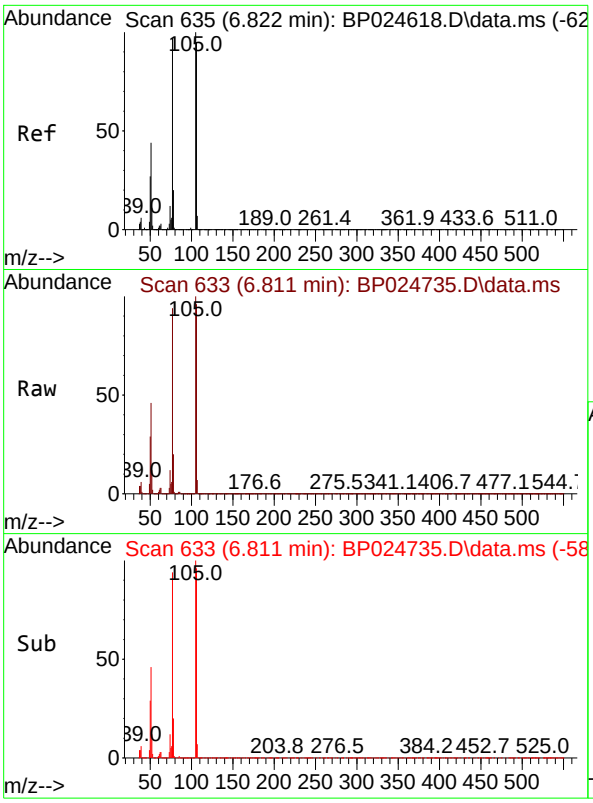


#8
2-Chlorophenol
Concen: 38.546 ng
RT: 7.234 min Scan# 705
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:128 Resp: 346587

Ion	Ratio	Lower	Upper
128	100		
130	32.8	13.0	53.0
64	38.1	22.3	62.3



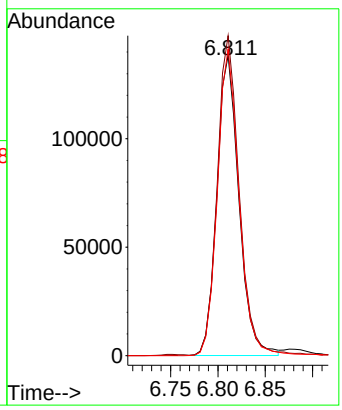


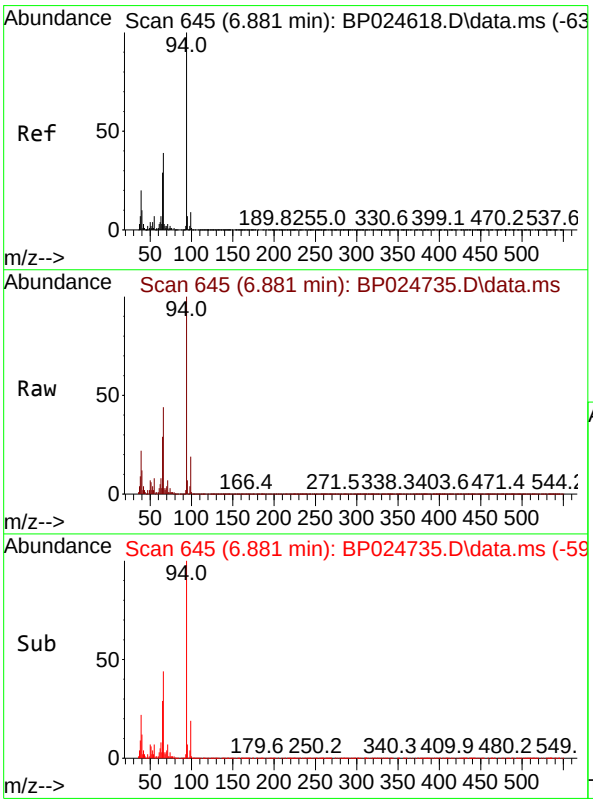
#9
Benzaldehyde
Concen: 34.170 ng
RT: 6.811 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 223602

Ion	Ratio	Lower	Upper
77	100		
105	106.7	83.3	123.3
106	102.2	78.0	118.0

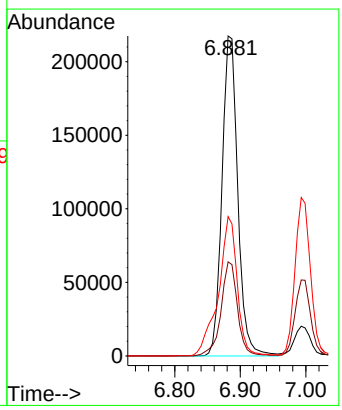


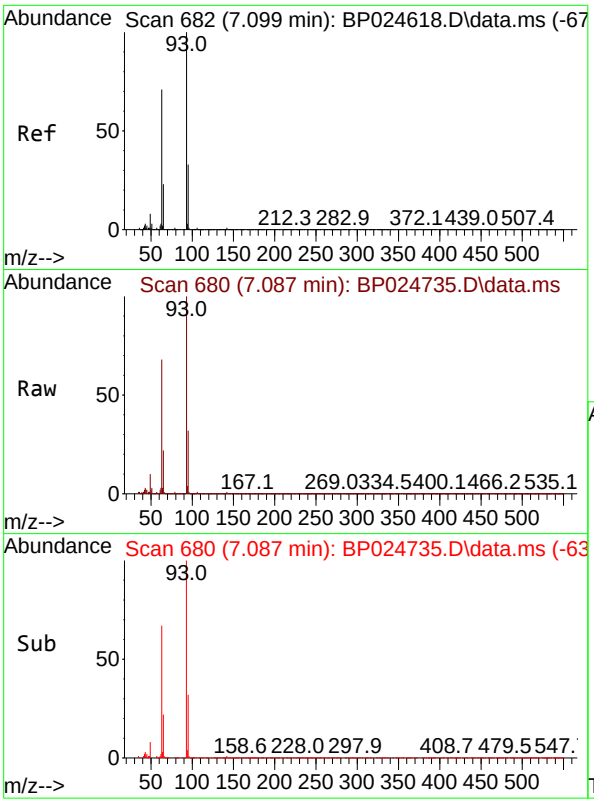


#10
Phenol
Concen: 34.719 ng
RT: 6.881 min Scan# 645
Delta R.T. 0.000 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 94 Resp: 362241

Ion	Ratio	Lower	Upper
94	100		
65	29.4	8.7	48.7
66	43.5	19.4	59.4



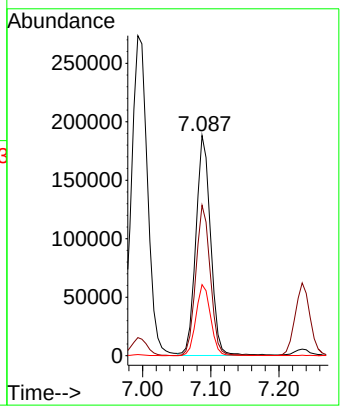


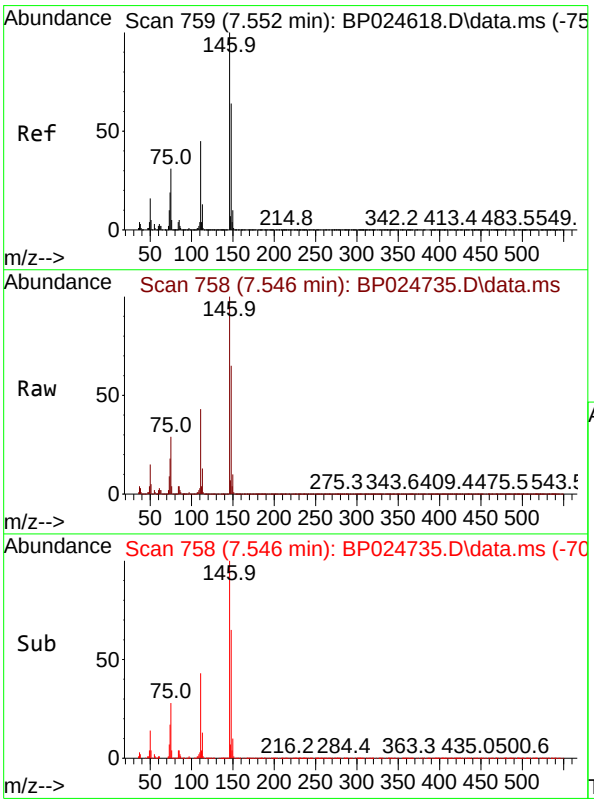
#11
bis(2-Chloroethyl)ether
Concen: 32.916 ng
RT: 7.087 min Scan# 6
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 93 Resp: 282191

Ion	Ratio	Lower	Upper
93	100		
63	68.3	50.6	90.6
95	32.3	12.9	52.9

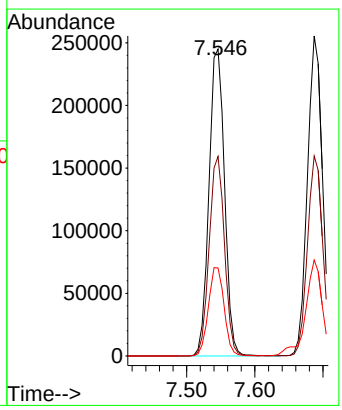


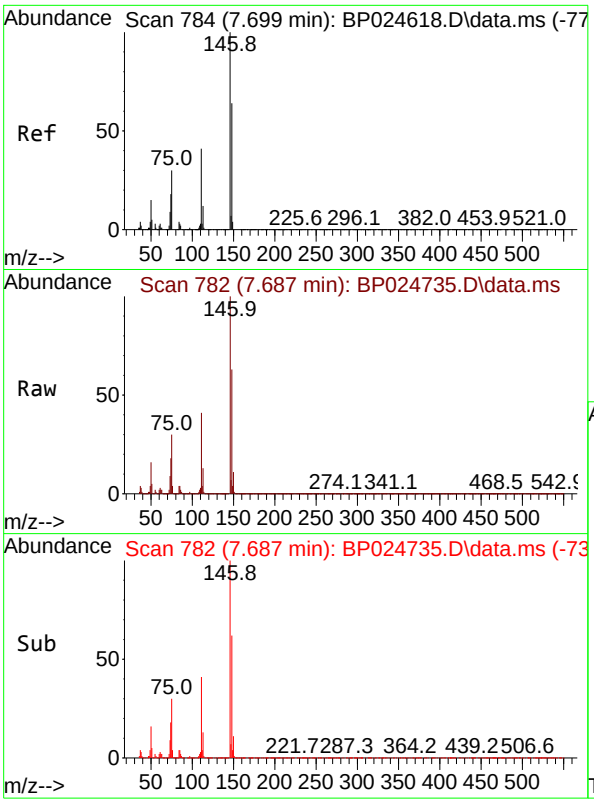


#12
1,3-Dichlorobenzene
Concen: 37.594 ng
RT: 7.546 min Scan# 758
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:146 Resp: 388903

Ion	Ratio	Lower	Upper
146	100		
148	65.0	51.4	77.2
75	28.7	25.2	37.8



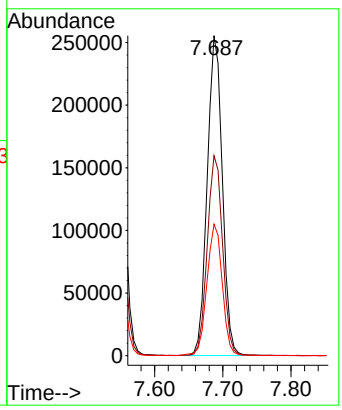


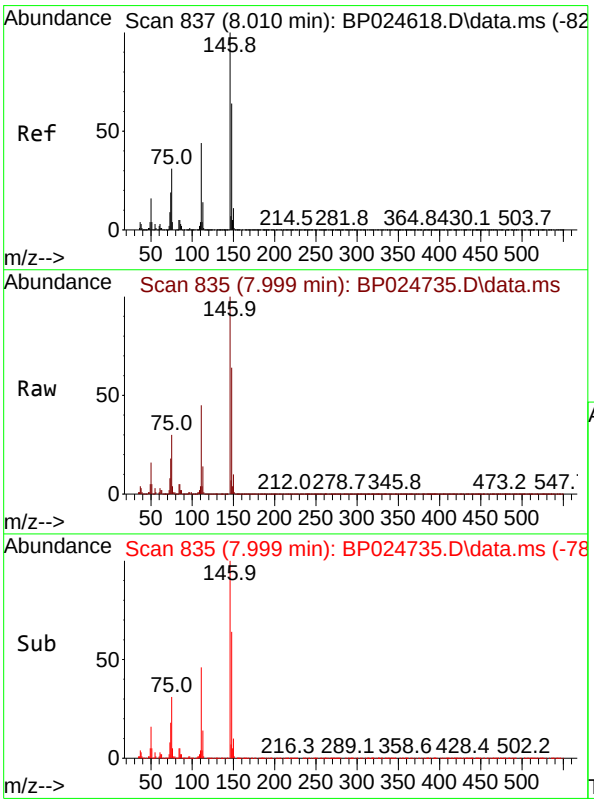
#13
1,4-Dichlorobenzene
Concen: 37.775 ng
RT: 7.687 min Scan# 7
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:146 Resp: 393029

Ion	Ratio	Lower	Upper
146	100		
148	62.5	51.0	76.6
111	41.1	33.0	49.6

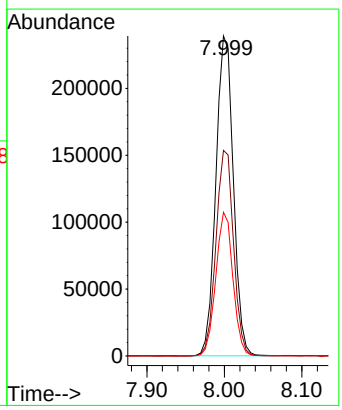


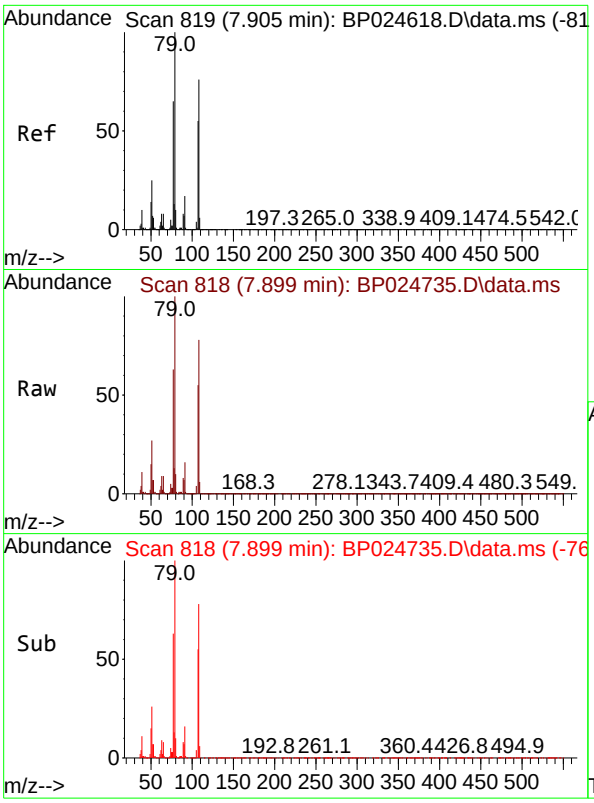


#14
1,2-Dichlorobenzene
Concen: 36.981 ng
RT: 7.999 min Scan# 835
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:146 Resp: 374925

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.0	76.4
111	44.9	35.2	52.8



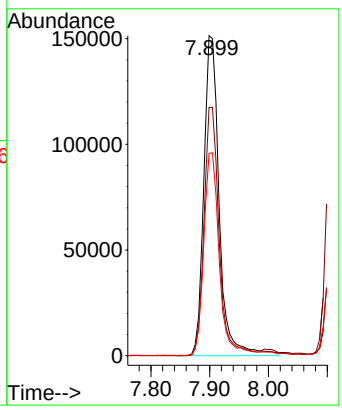


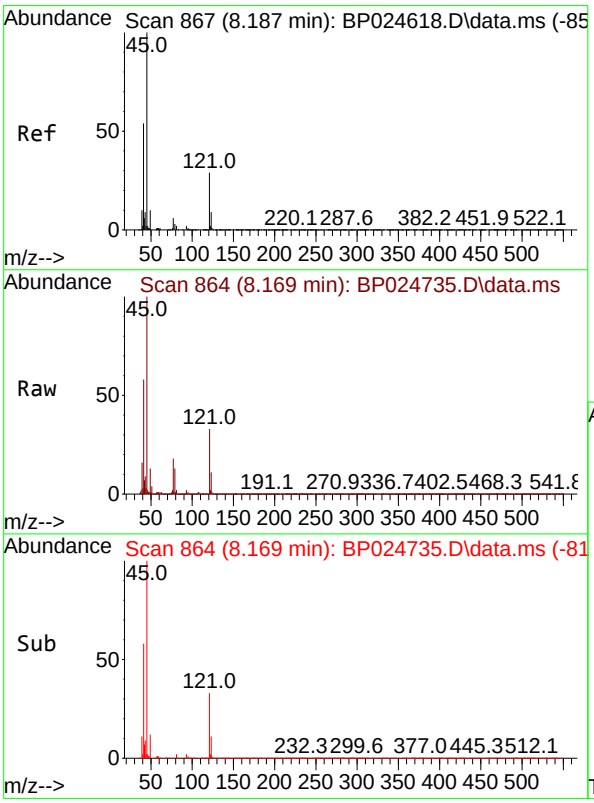
#15
Benzyl Alcohol
Concen: 35.822 ng
RT: 7.899 min Scan# 81
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 79 Resp: 275177

Ion	Ratio	Lower	Upper
79	100		
108	77.6	60.8	91.2
77	63.3	51.9	77.9

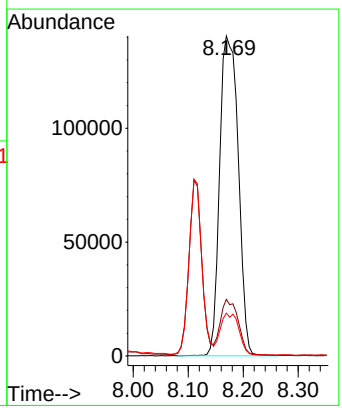


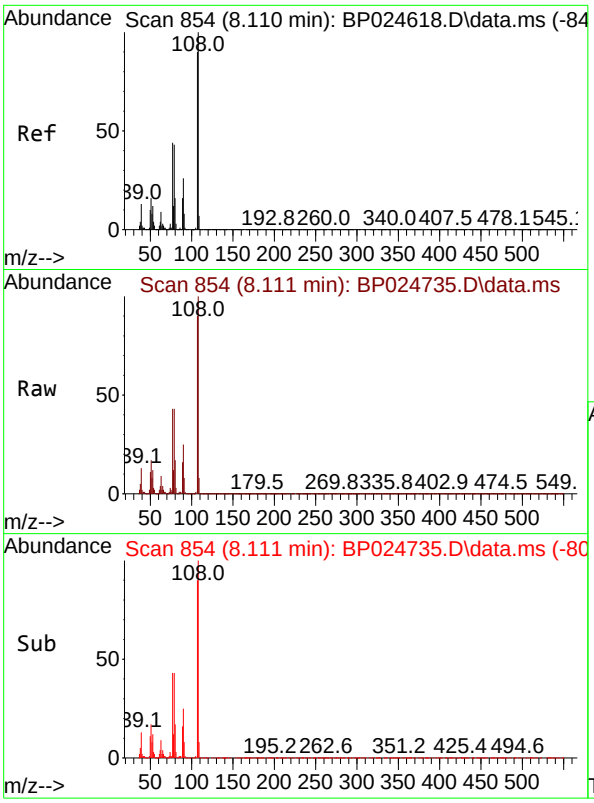


#16
2,2'-oxybis(1-Chloropropane)
Concen: 32.192 ng
RT: 8.169 min Scan# 864
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 45 Resp: 330517

Ion	Ratio	Lower	Upper
45	100		
77	17.7	0.0	37.7
79	13.4	0.0	34.0



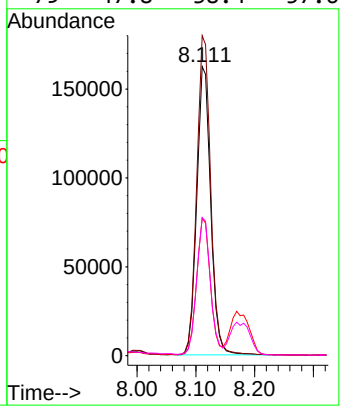


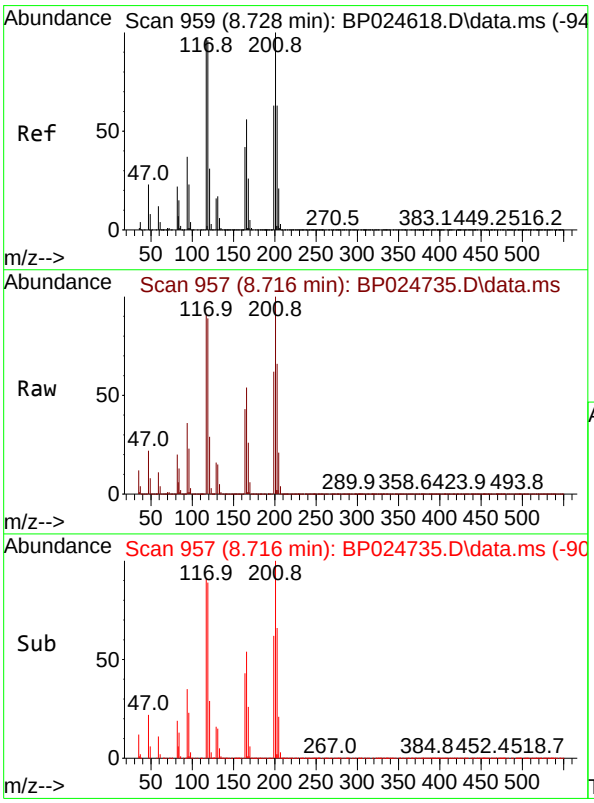
#17
2-Methylphenol
Concen: 35.626 ng
RT: 8.111 min Scan# 8
Delta R.T. 0.000 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:107 Resp: 266596

Ion	Ratio	Lower	Upper
107	100		
108	110.7	88.9	133.3
77	47.5	39.0	58.6
79	47.8	38.4	57.6

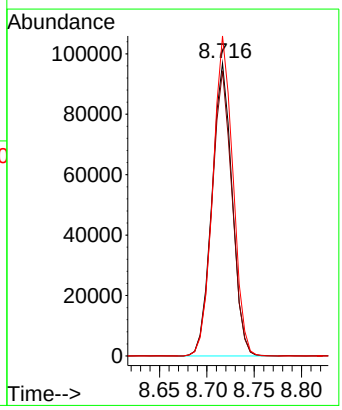


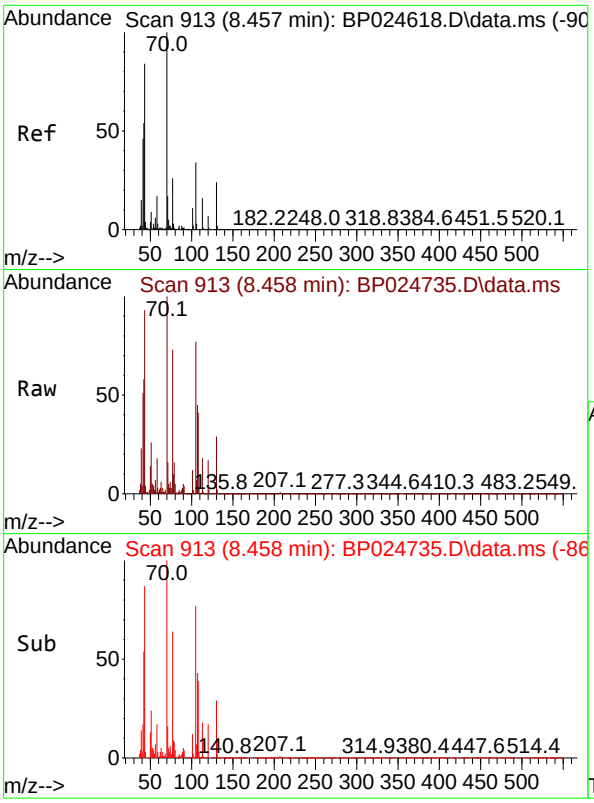


#18
Hexachloroethane
Concen: 35.988 ng
RT: 8.716 min Scan# 957
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:117 Resp: 143486

Ion	Ratio	Lower	Upper
117	100		
119	97.4	79.4	119.0
201	109.3	82.7	124.1



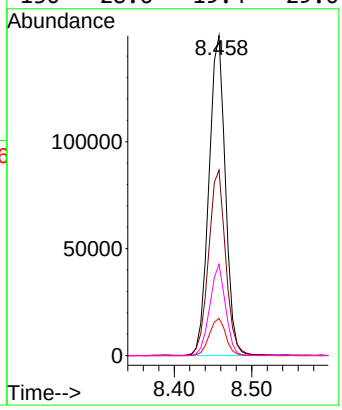


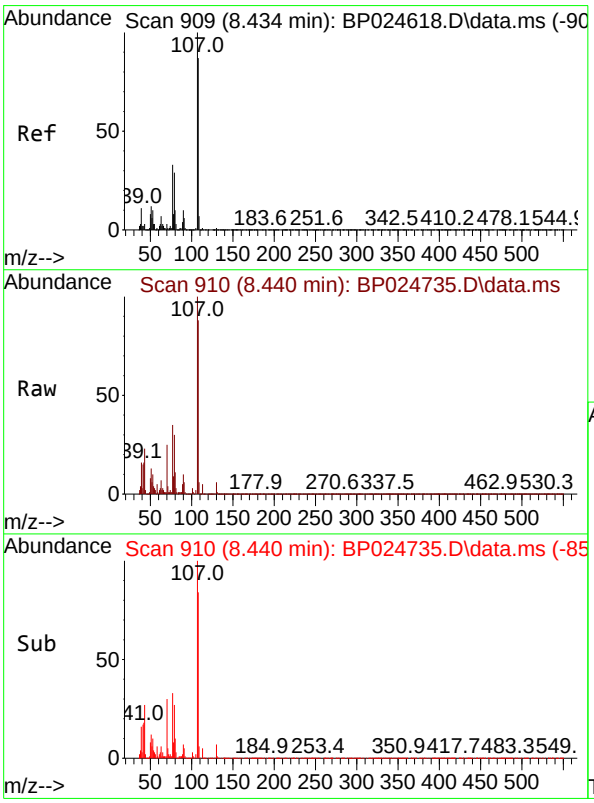
#19
n-Nitroso-di-n-propylamine
Concen: 31.502 ng
RT: 8.458 min Scan# 91
Delta R.T. 0.000 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 70 Resp: 220282

Ion	Ratio	Lower	Upper
70	100		
42	58.0	43.0	64.6
101	11.7	8.7	13.1
130	28.6	19.4	29.0

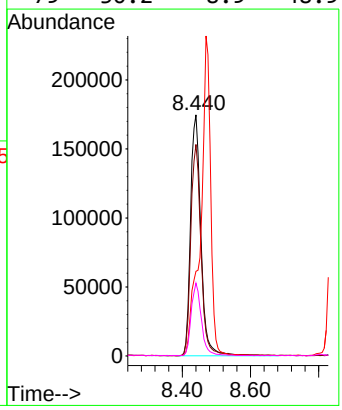


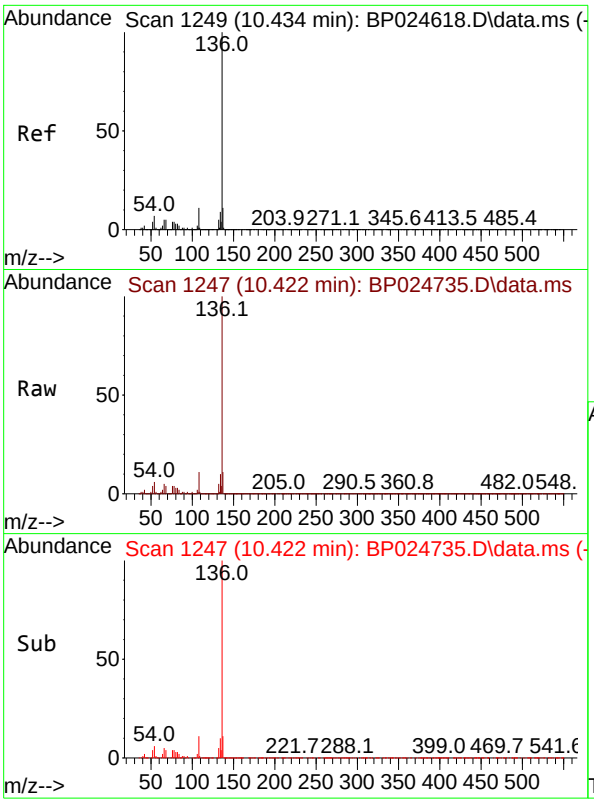


#20
3+4-Methylphenols
Concen: 36.045 ng
RT: 8.440 min Scan# 910
Delta R.T. 0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:107 Resp: 366912

Ion	Ratio	Lower	Upper
107	100		
108	87.7	66.7	106.7
77	35.1	13.1	53.1
79	30.2	8.9	48.9



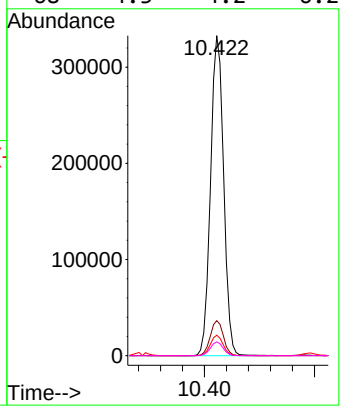


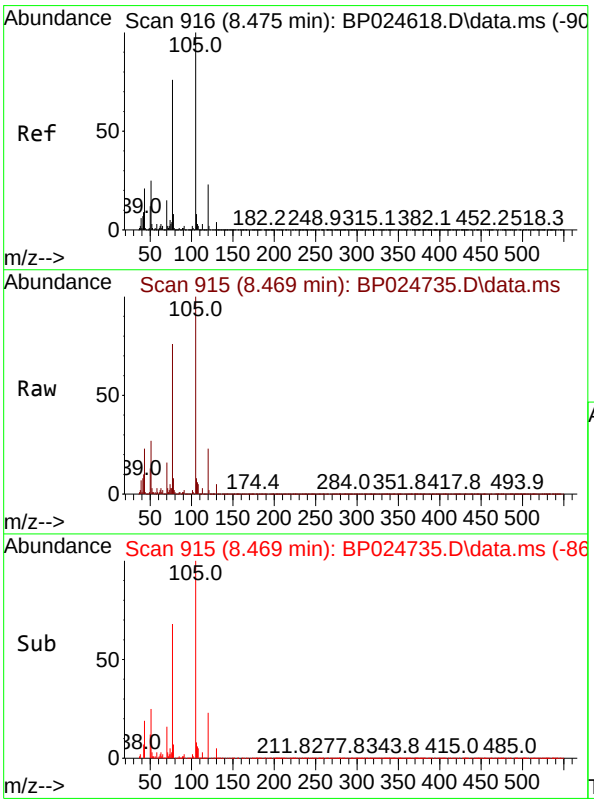
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 10.422 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:136 Resp: 549948

Ion	Ratio	Lower	Upper
136	100		
137	11.0	8.8	13.2
54	6.4	5.5	8.3
68	4.3	4.2	6.2

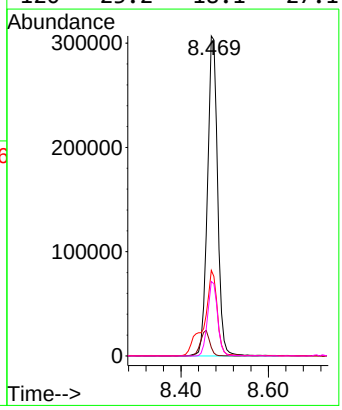


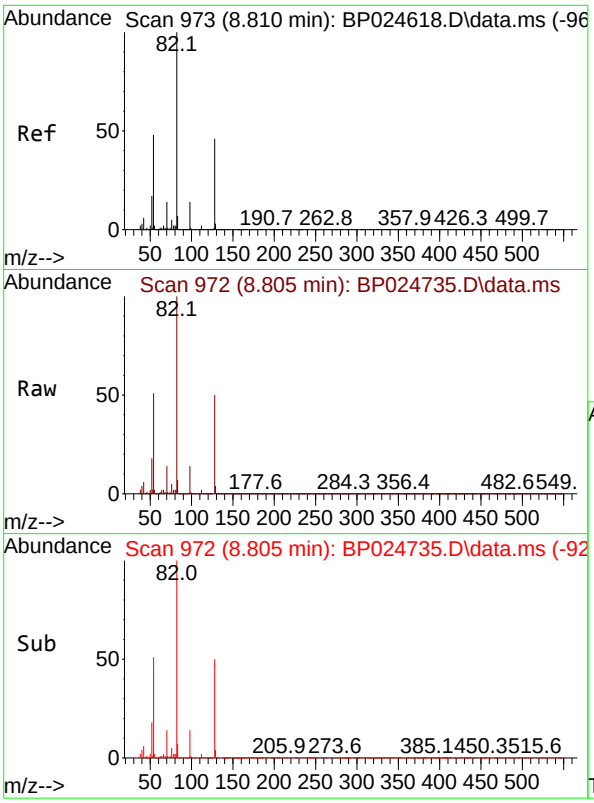


#22
Acetophenone
Concen: 36.178 ng
RT: 8.469 min Scan# 915
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:105 Resp: 496987

Ion	Ratio	Lower	Upper
105	100		
71	2.6	2.0	3.0
51	26.7	20.4	30.6
120	23.2	18.1	27.1



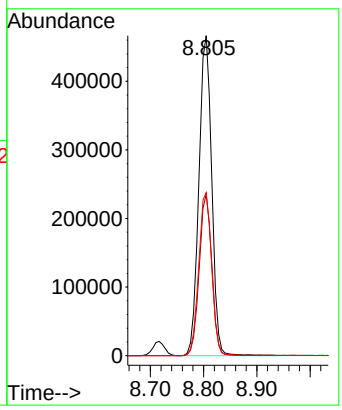


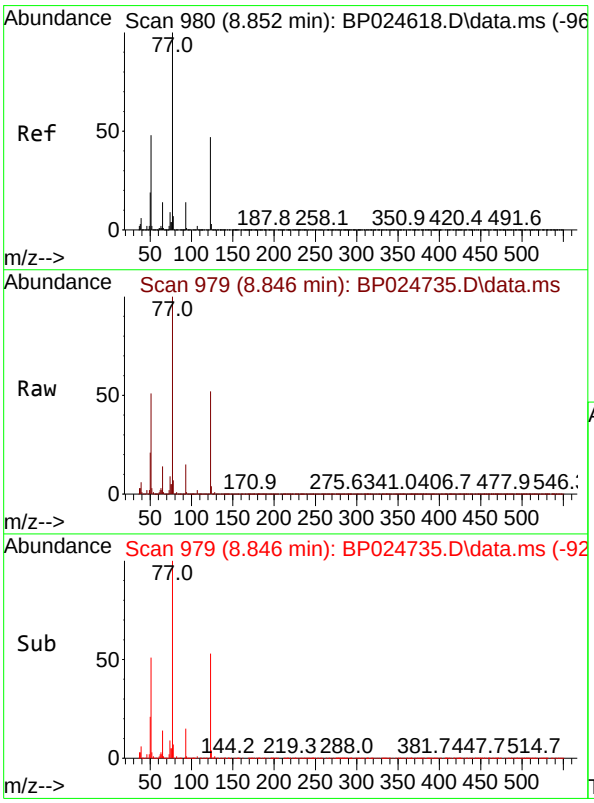
#23
Nitrobenzene-d5
Concen: 71.600 ng
RT: 8.805 min Scan# 9
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 779316

Ion	Ratio	Lower	Upper
82	100		
128	50.4	37.0	55.4
54	50.9	38.7	58.1

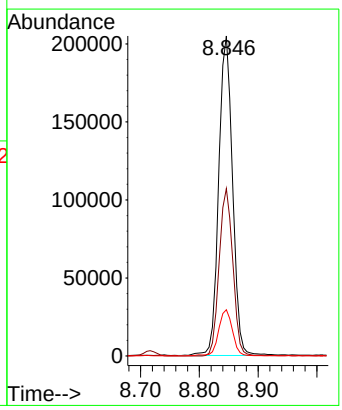


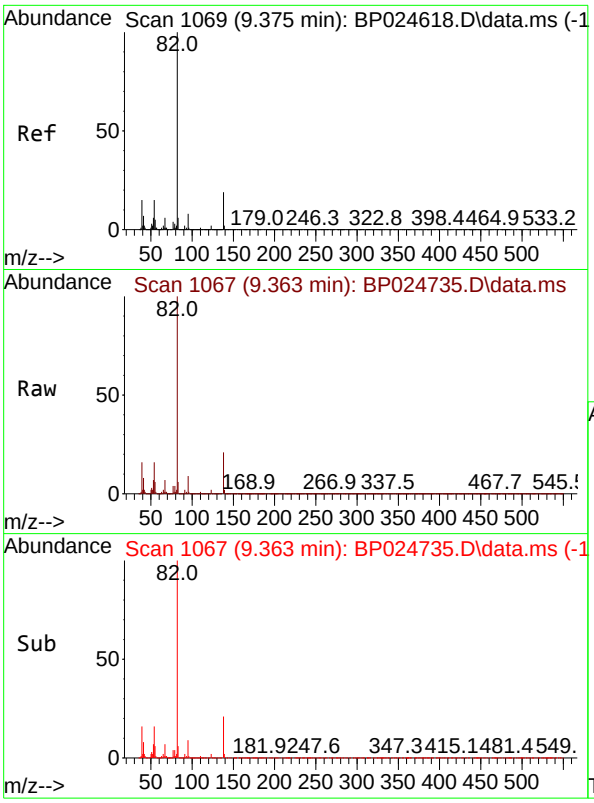


#24
Nitrobenzene
Concen: 34.890 ng
RT: 8.846 min Scan# 979
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 77 Resp: 334187

Ion	Ratio	Lower	Upper
77	100		
123	52.3	37.4	56.0
65	14.4	11.3	16.9



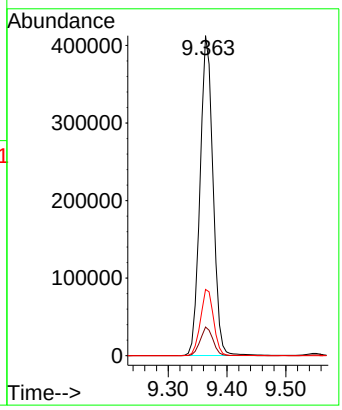


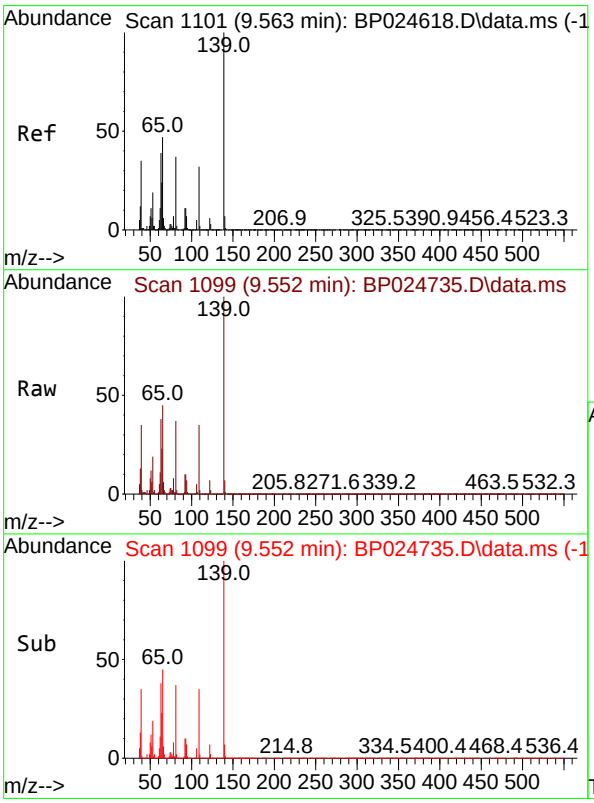
#25
Isophorone
Concen: 33.451 ng
RT: 9.363 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 82 Resp: 631557

Ion	Ratio	Lower	Upper
82	100		
95	8.9	6.3	9.5
138	20.7	15.3	22.9

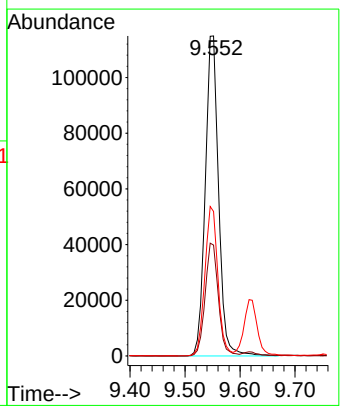


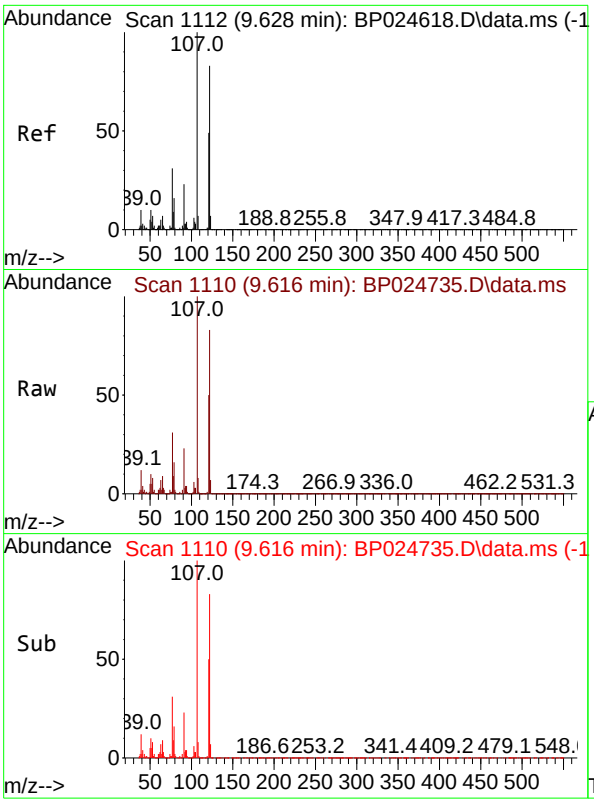


#26
2-Nitrophenol
Concen: 41.274 ng
RT: 9.552 min Scan# 1099
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:139 Resp: 193720

Ion	Ratio	Lower	Upper
139	100		
109	34.6	25.9	38.9
65	45.2	37.9	56.9



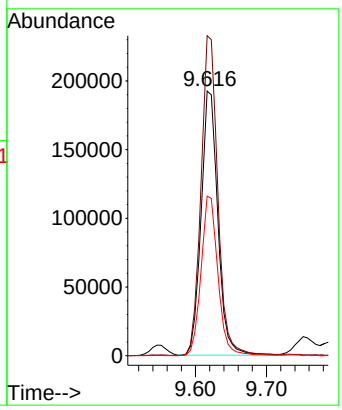


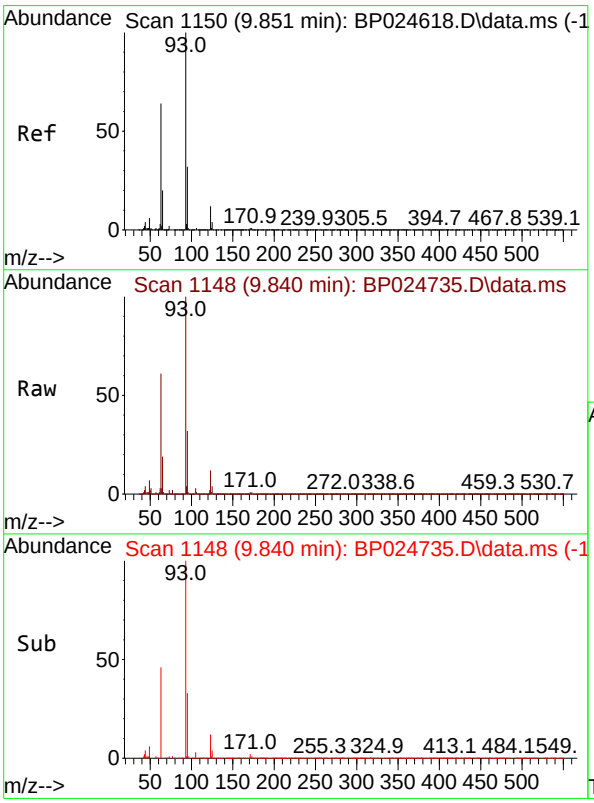
#27
2,4-Dimethylphenol
Concen: 38.142 ng
RT: 9.616 min Scan# 11
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:122 Resp: 315631

Ion	Ratio	Lower	Upper
122	100		
107	120.9	96.2	144.2
121	60.3	47.6	71.4

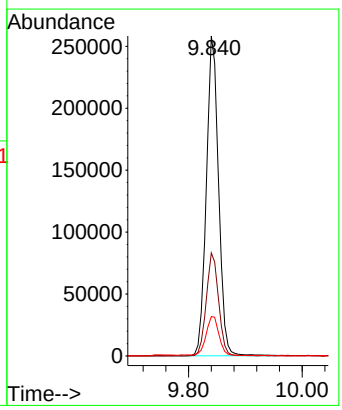


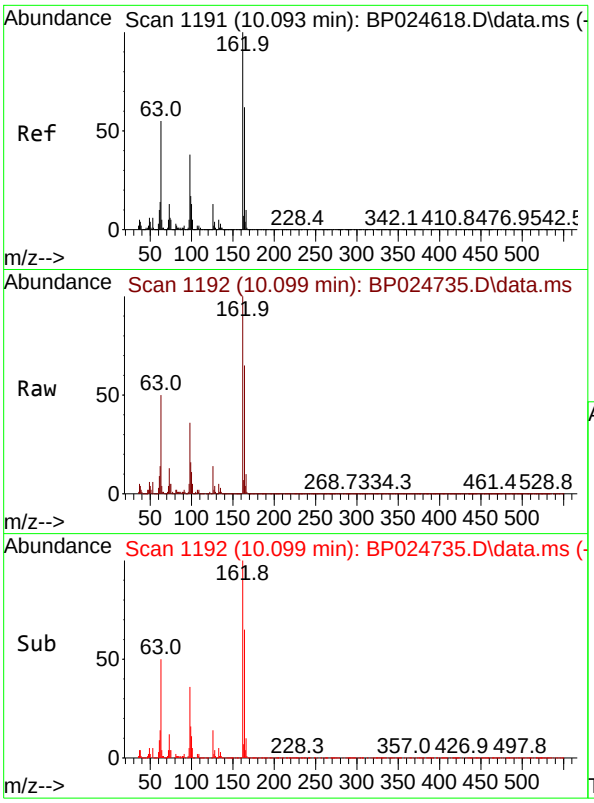


#28
bis(2-Chloroethoxy)methane
Concen: 33.966 ng
RT: 9.840 min Scan# 1148
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 93 Resp: 383129

Ion	Ratio	Lower	Upper
93	100		
95	32.2	25.5	38.3
123	12.3	9.7	14.5



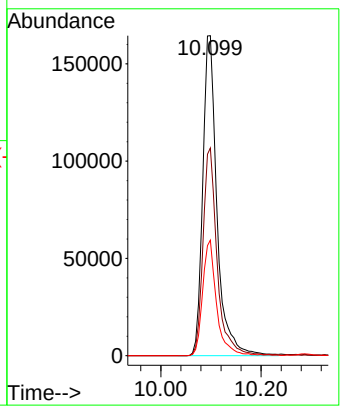


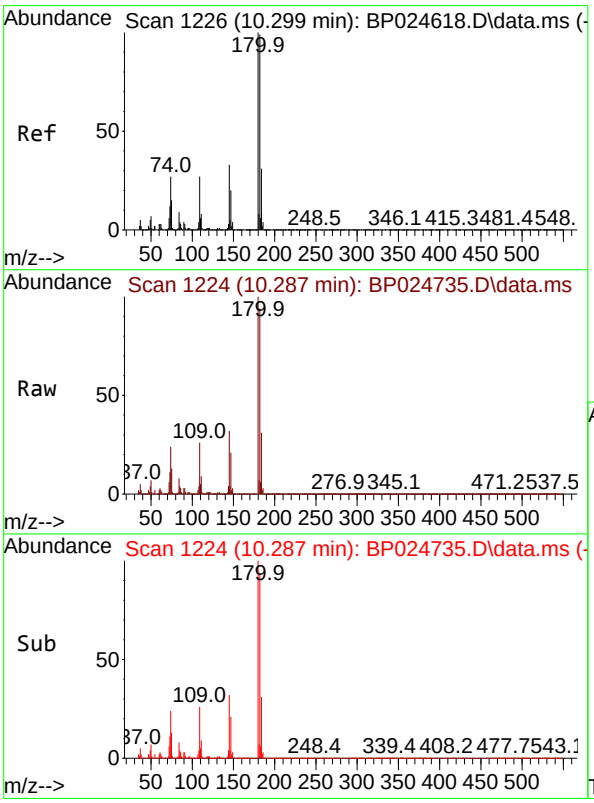
#29
2,4-Dichlorophenol
Concen: 40.632 ng
RT: 10.099 min Scan# 11
Delta R.T. 0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 325837

Ion	Ratio	Lower	Upper
162	100		
164	64.9	42.3	82.3
98	36.1	18.4	58.4

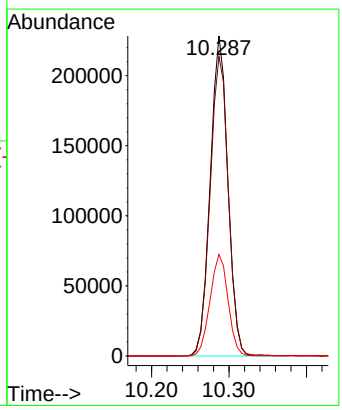


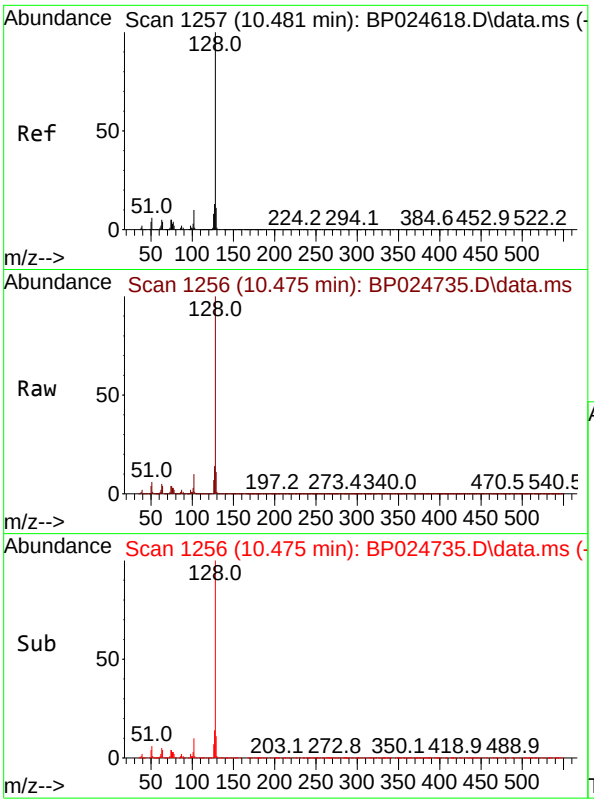


#30
1,2,4-Trichlorobenzene
Concen: 40.056 ng
RT: 10.287 min Scan# 1224
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:180 Resp: 361969

Ion	Ratio	Lower	Upper
180	100		
182	93.6	79.0	118.4
145	31.7	26.6	39.8



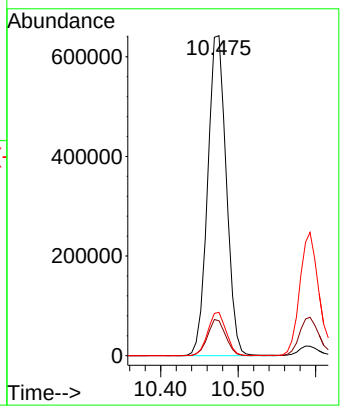


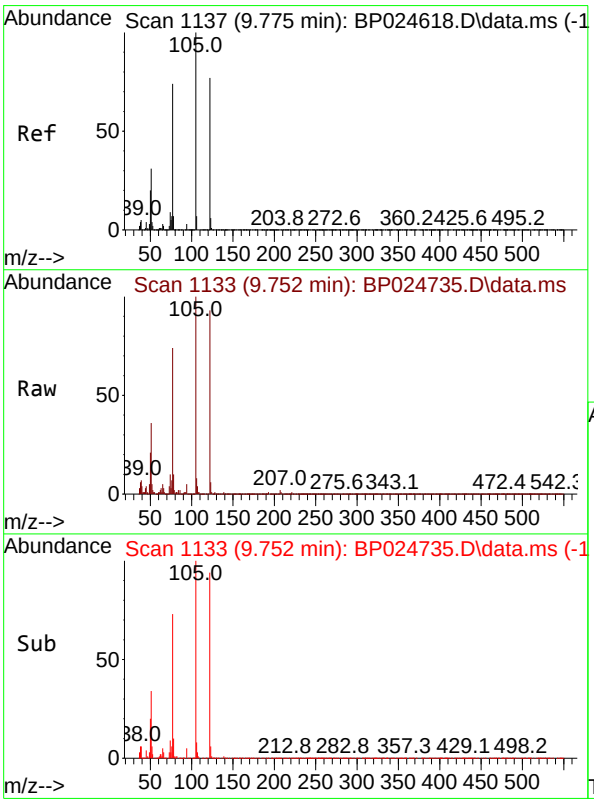
#31
Naphthalene
Concen: 37.615 ng
RT: 10.475 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:128 Resp: 1071970

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	13.6	10.7	16.1

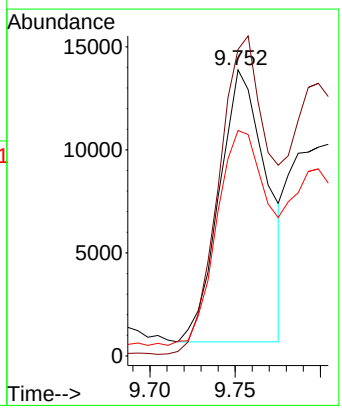


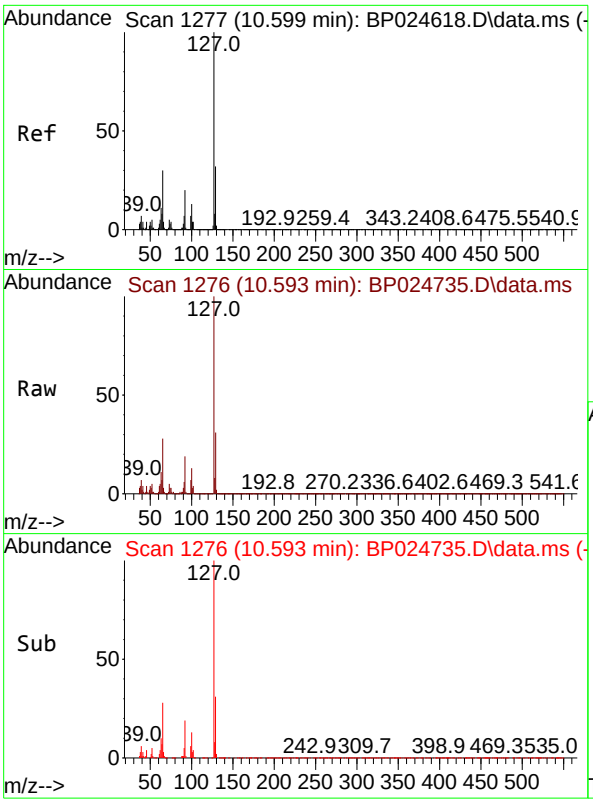


#32
Benzoic acid
Concen: 11.200 ng
RT: 9.752 min Scan# 1133
Delta R.T. -0.023 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:122 Resp: 25462

Ion	Ratio	Lower	Upper
122	100		
105	107.2	106.9	146.9
77	78.8	75.1	115.1



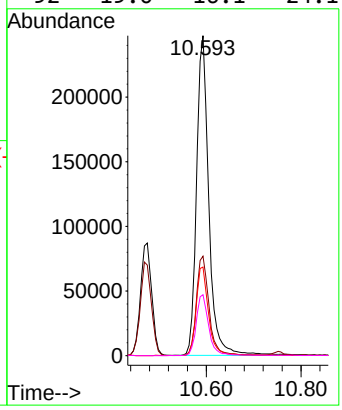


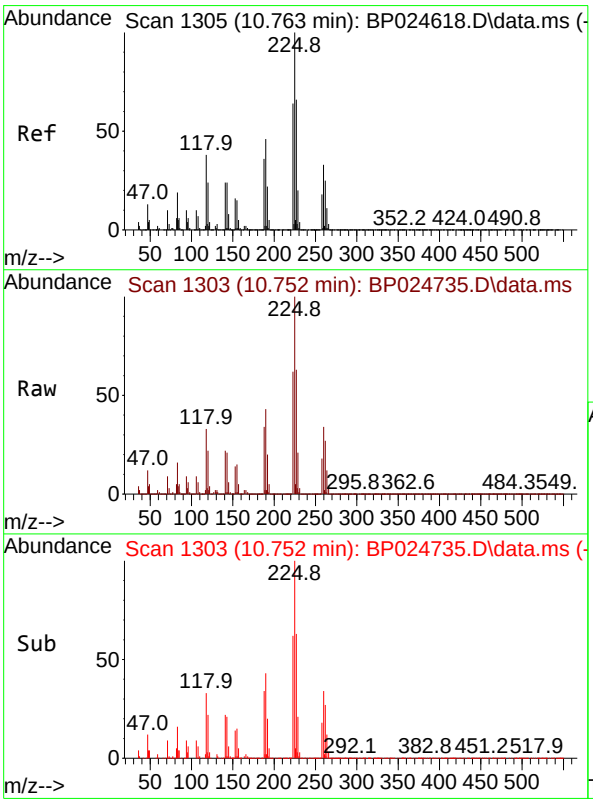
#33
4-Chloroaniline
Concen: 38.602 ng
RT: 10.593 min Scan# 1
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:127 Resp: 443925

Ion	Ratio	Lower	Upper
127	100		
129	31.1	25.8	38.6
65	27.7	23.9	35.9
92	19.0	16.1	24.1

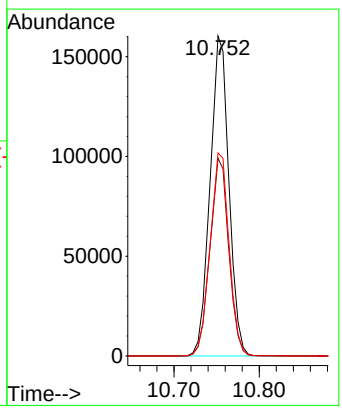


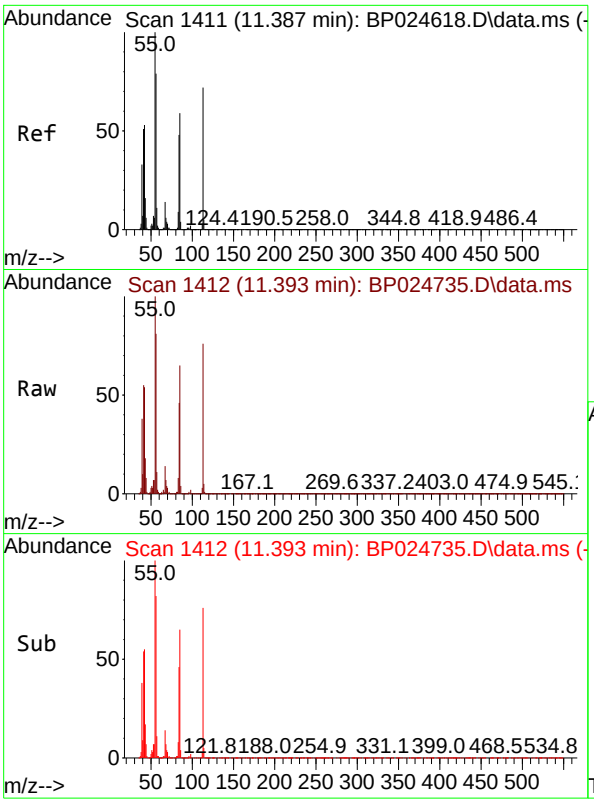


#34
Hexachlorobutadiene
Concen: 41.898 ng
RT: 10.752 min Scan# 1303
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:225 Resp: 245271

Ion	Ratio	Lower	Upper
225	100		
223	61.8	51.0	76.6
227	63.4	53.1	79.7



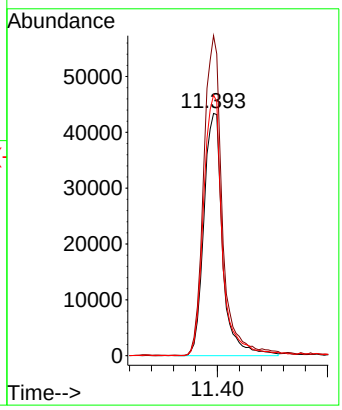


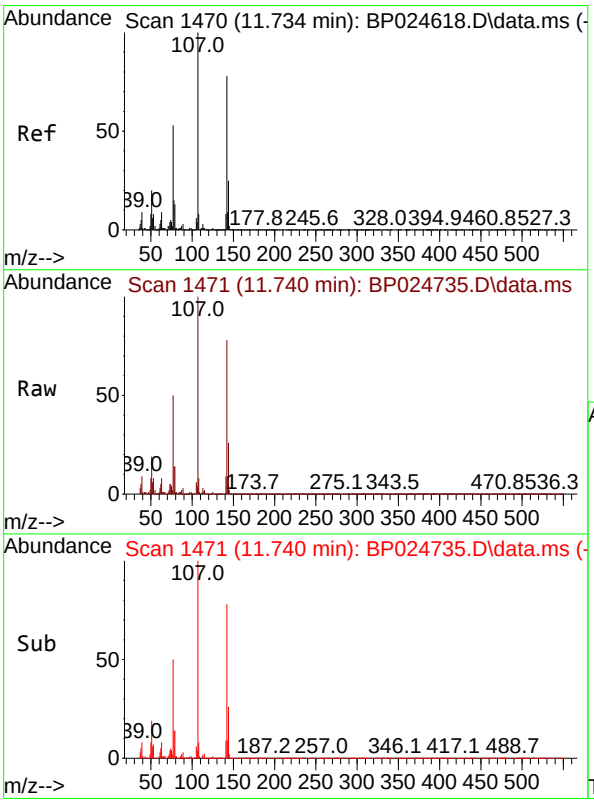
#35
Caprolactam
Concen: 35.270 ng
RT: 11.393 min Scan# 14
Delta R.T. 0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:113 Resp: 102330

Ion	Ratio	Lower	Upper
113	100		
55	132.1	119.0	159.0
56	107.6	90.3	130.3

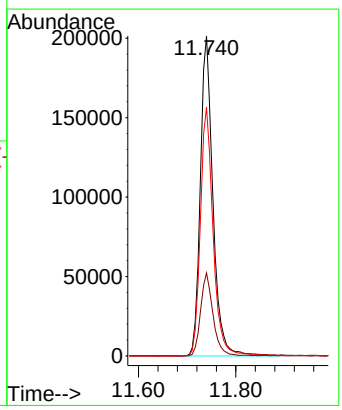


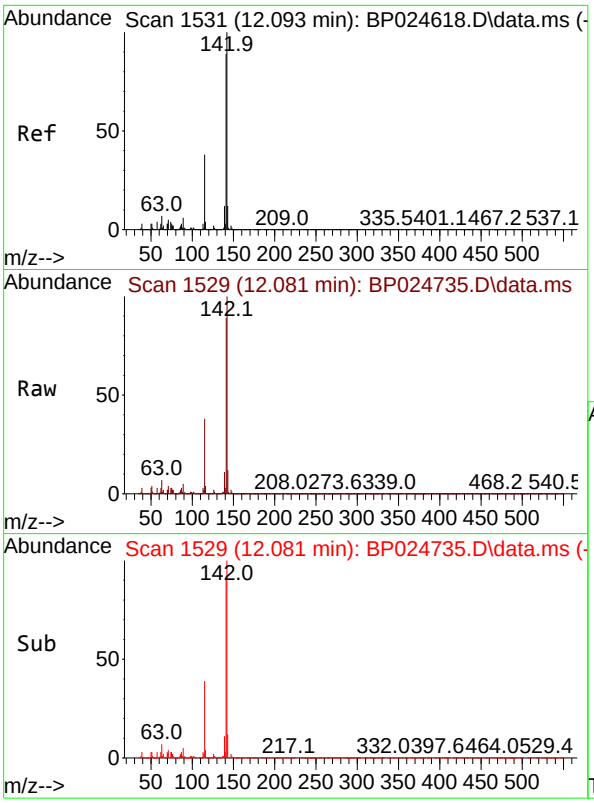


#36
4-Chloro-3-methylphenol
Concen: 36.928 ng
RT: 11.740 min Scan# 1471
Delta R.T. 0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:107 Resp: 361130

Ion	Ratio	Lower	Upper
107	100		
144	26.0	20.1	30.1
142	77.7	62.1	93.1



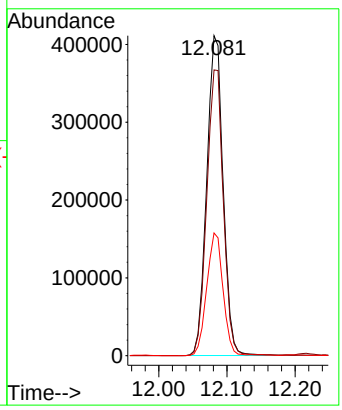


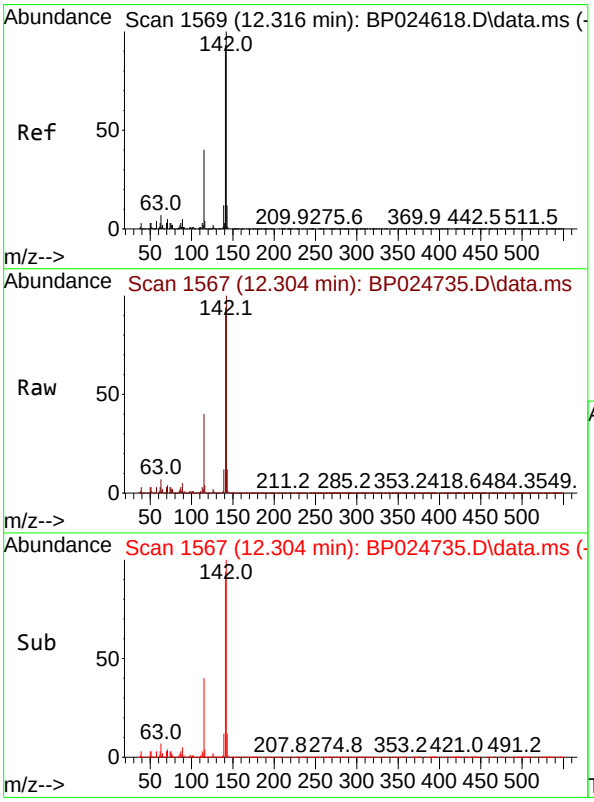
#37
2-Methylnaphthalene
Concen: 37.315 ng
RT: 12.081 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:142 Resp: 688580

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.2	106.8
115	38.3	30.6	46.0

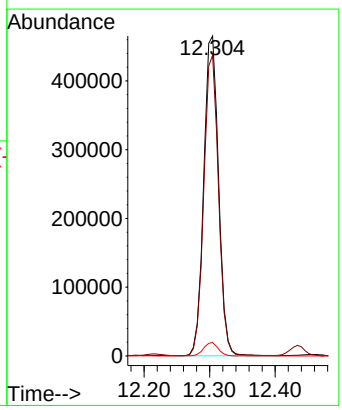


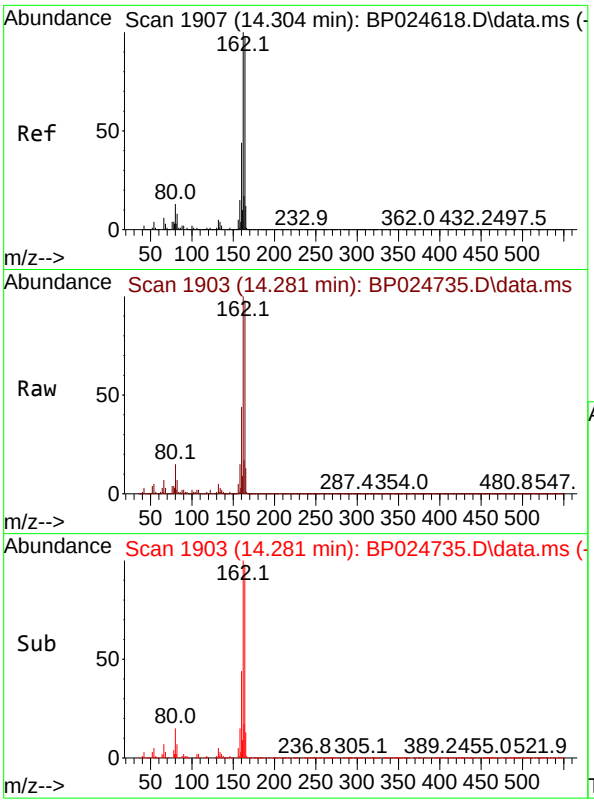


#38
1-Methylnaphthalene
Concen: 37.092 ng
RT: 12.304 min Scan# 1567
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:142 Resp: 732371

Ion	Ratio	Lower	Upper
142	100		
141	94.0	74.7	112.1
116	4.2	3.4	5.2



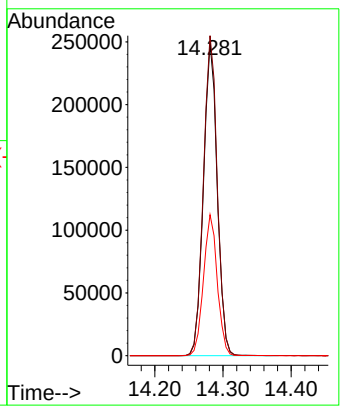


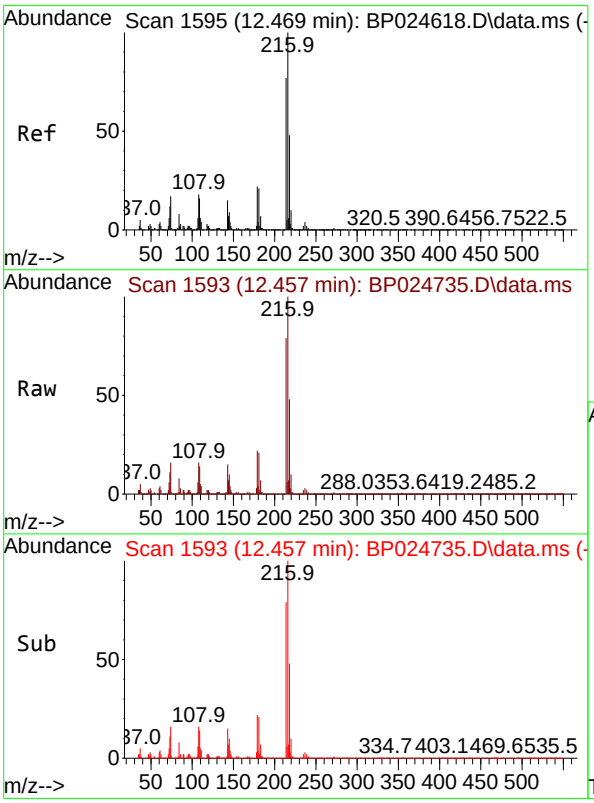
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 14.281 min Scan# 1
Delta R.T. -0.023 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:164 Resp: 350452

Ion	Ratio	Lower	Upper
164	100		
162	102.3	81.8	122.6
160	45.1	36.3	54.5

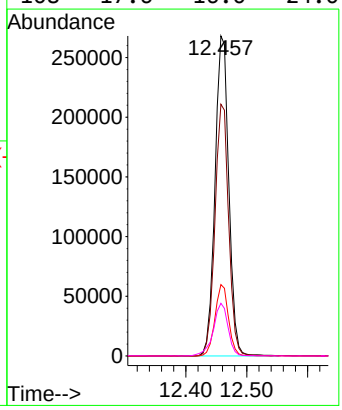


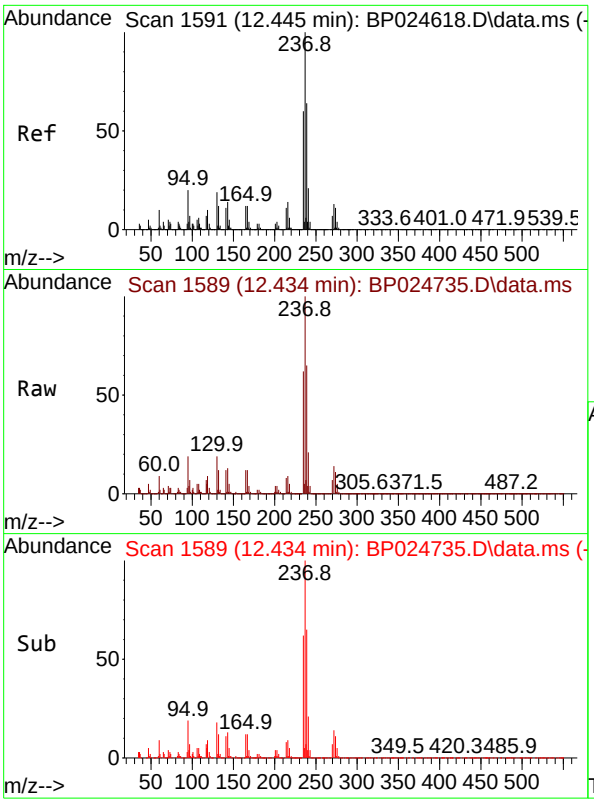


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.450 ng
RT: 12.457 min Scan# 1593
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:216 Resp: 421830

Ion	Ratio	Lower	Upper
216	100		
214	78.3	62.3	93.5
179	21.8	17.7	26.5
108	17.6	16.0	24.0



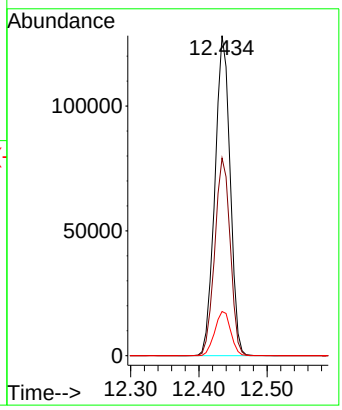


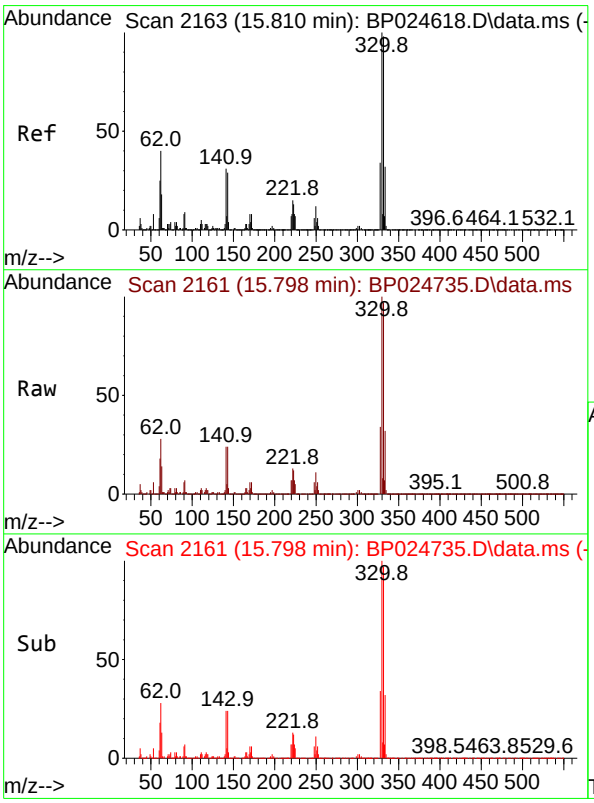
#41
Hexachlorocyclopentadiene
Concen: 32.301 ng
RT: 12.434 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:237 Resp: 199324

Ion	Ratio	Lower	Upper
237	100		
235	61.8	39.9	79.9
272	13.8	0.0	33.2

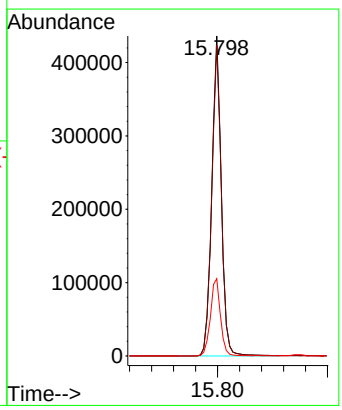


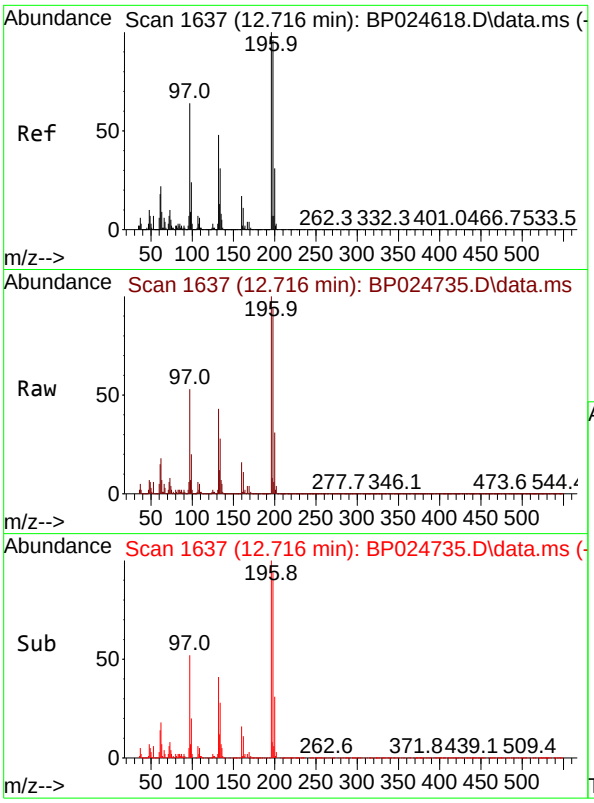


#42
2,4,6-Tribromophenol
Concen: 88.157 ng
RT: 15.798 min Scan# 2161
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:330 Resp: 523753

Ion	Ratio	Lower	Upper
330	100		
332	97.9	78.2	117.4
141	25.5	24.3	36.5



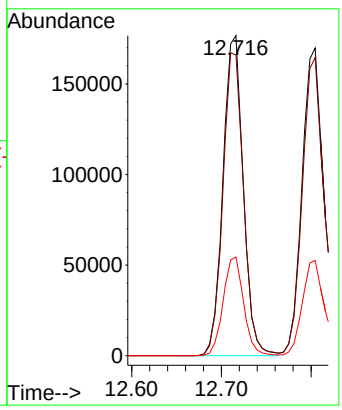


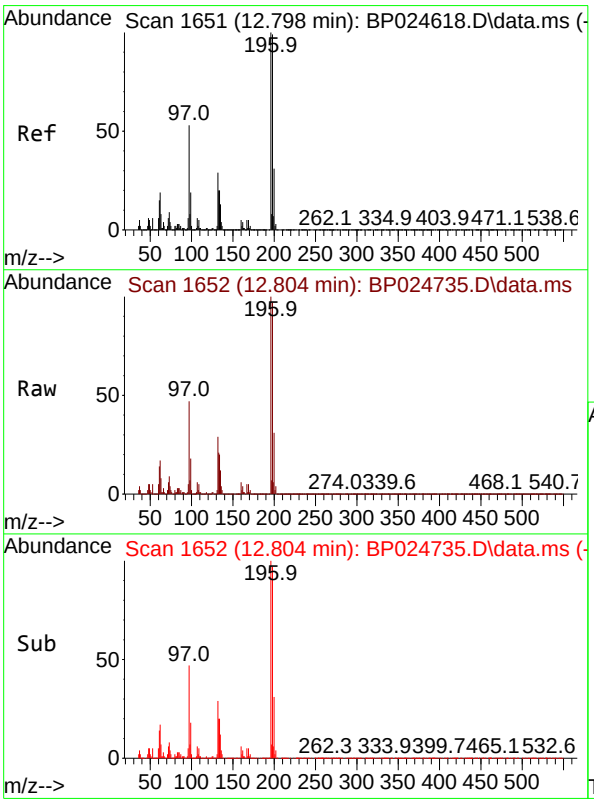
#43
2,4,6-Trichlorophenol
Concen: 42.185 ng
RT: 12.716 min Scan# 1
Delta R.T. 0.000 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:196 Resp: 278066

Ion	Ratio	Lower	Upper
196	100		
198	93.9	76.9	115.3
200	30.9	25.2	37.8

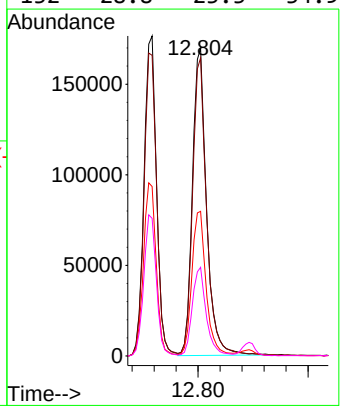


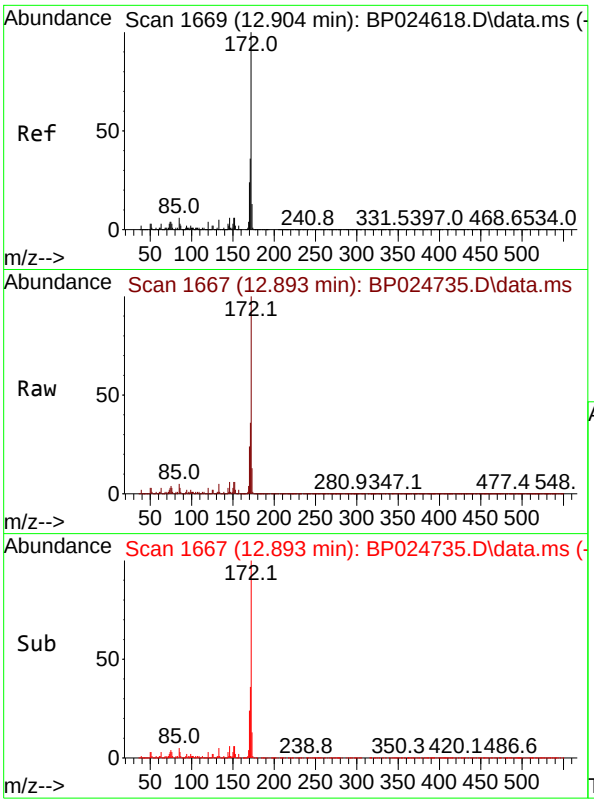


#44
2,4,5-Trichlorophenol
Concen: 41.236 ng
RT: 12.804 min Scan# 1652
Delta R.T. 0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:196 Resp: 302556

Ion	Ratio	Lower	Upper
196	100		
198	96.9	79.2	118.8
97	47.0	42.3	63.5
132	28.8	23.3	34.9



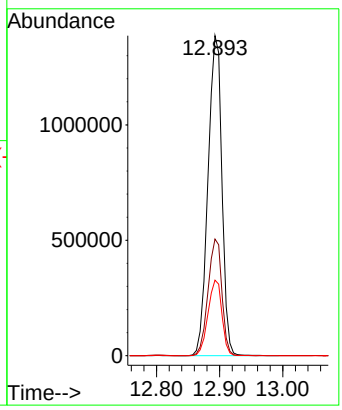


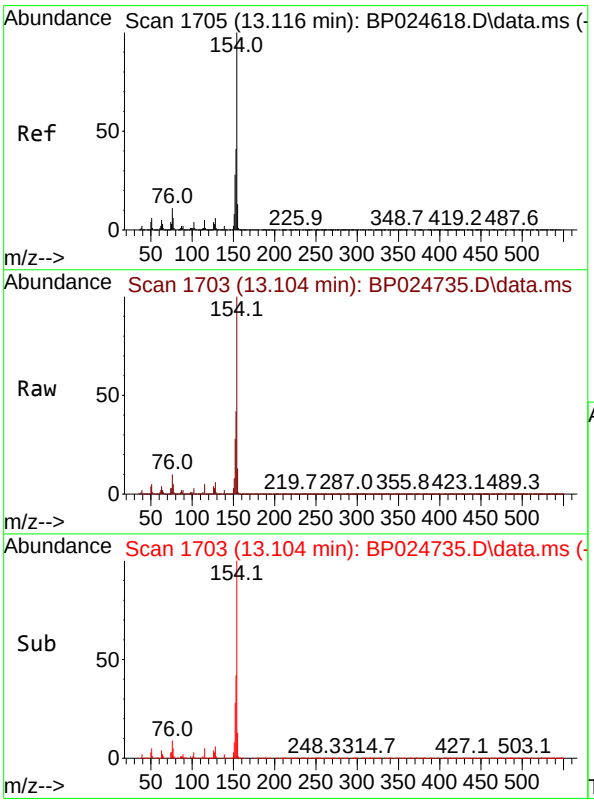
#45
2-Fluorobiphenyl
Concen: 79.041 ng
RT: 12.893 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:172 Resp: 2114301

Ion	Ratio	Lower	Upper
172	100		
171	36.4	28.8	43.2
170	23.6	18.8	28.2

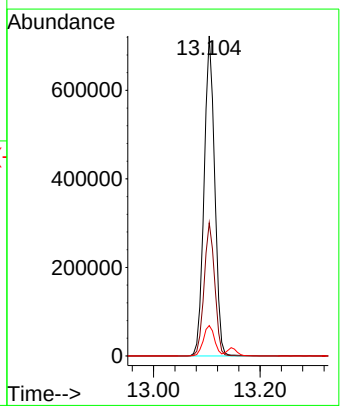


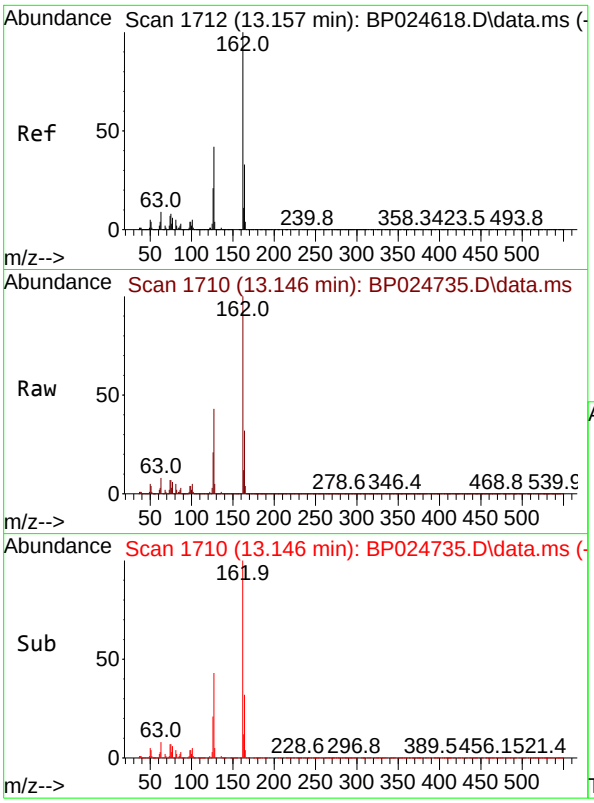


#46
1,1'-Biphenyl
Concen: 38.476 ng
RT: 13.104 min Scan# 1703
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:154 Resp: 996616

Ion	Ratio	Lower	Upper
154	100		
153	41.6	21.0	61.0
76	9.5	0.0	31.5



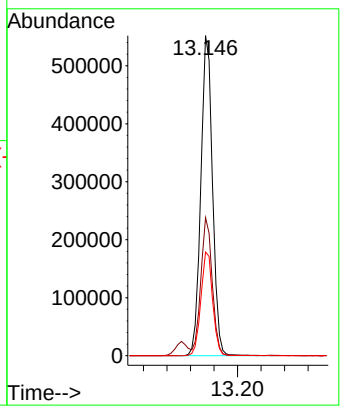


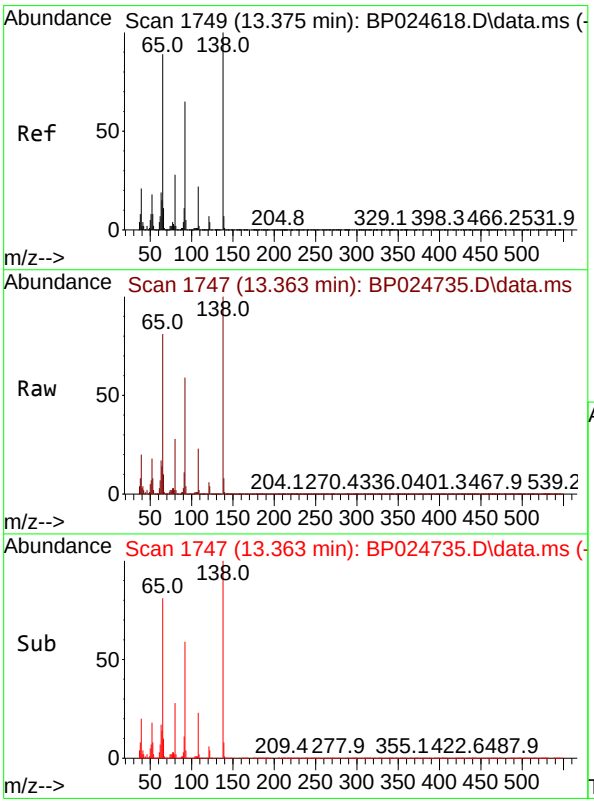
#47
2-Chloronaphthalene
Concen: 38.593 ng
RT: 13.146 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:162 Resp: 762202

Ion	Ratio	Lower	Upper
162	100		
127	43.1	33.8	50.6
164	32.4	26.0	39.0

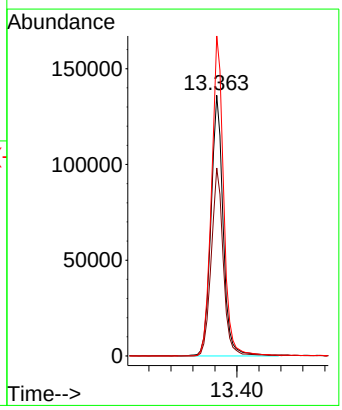


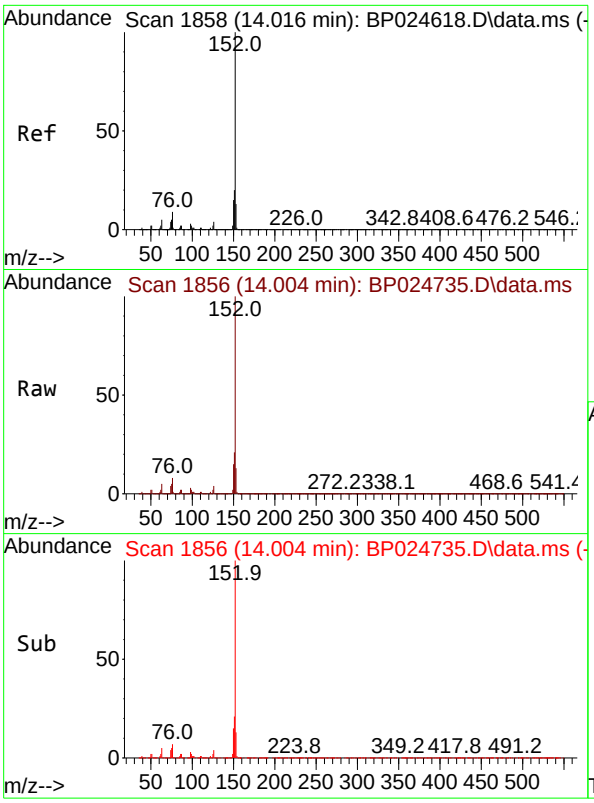


#48
2-Nitroaniline
Concen: 35.867 ng
RT: 13.363 min Scan# 1747
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion: 65 Resp: 209721

Ion	Ratio	Lower	Upper
65	100		
92	72.1	58.7	88.1
138	122.8	90.2	135.2



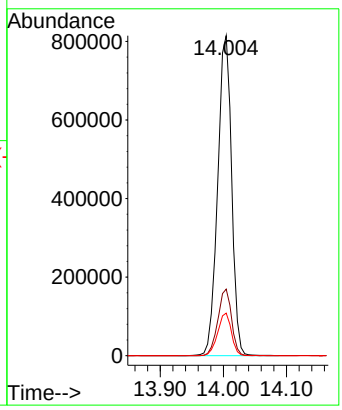


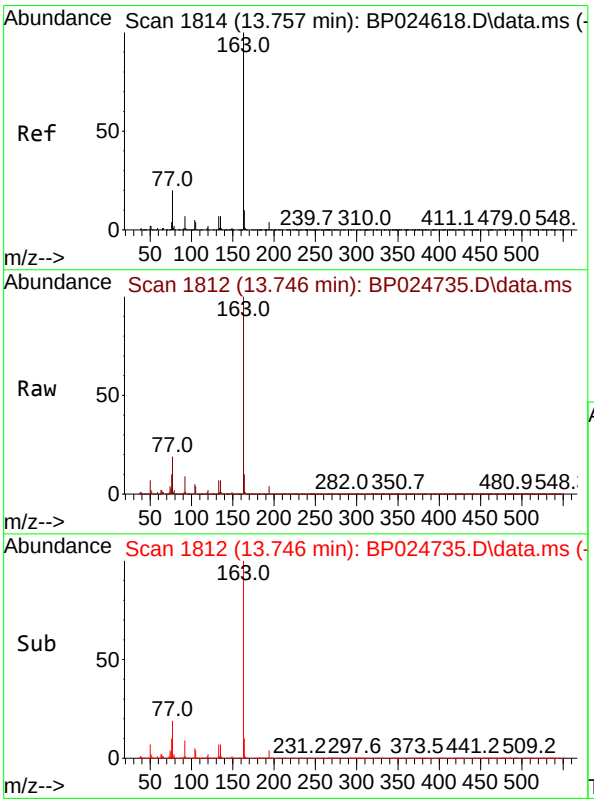
#49
Acenaphthylene
Concen: 37.738 ng
RT: 14.004 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:152 Resp: 1247255

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.2	24.4
153	13.3	10.2	15.4

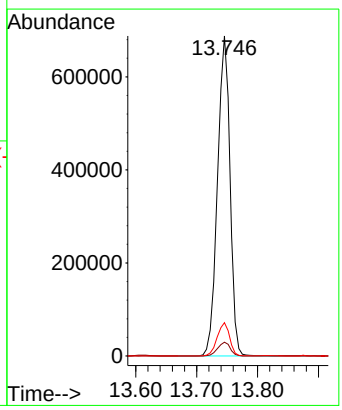


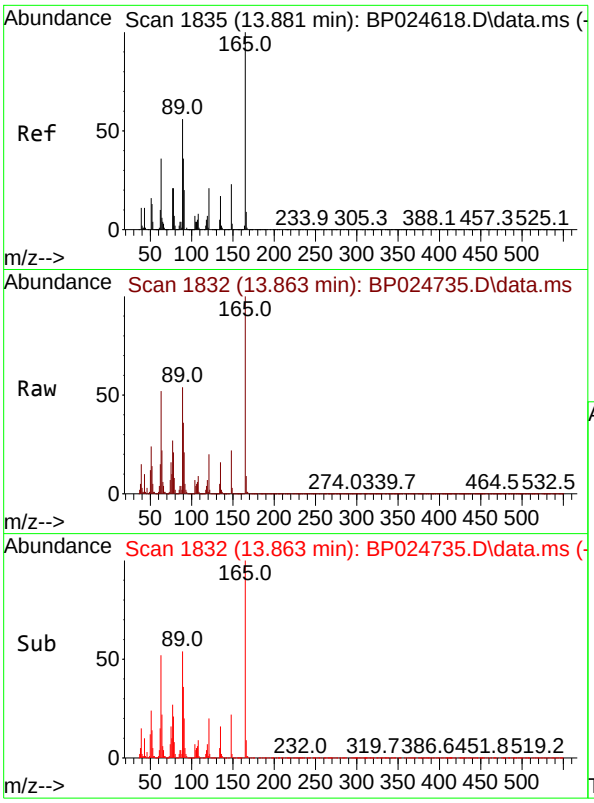


#50
Dimethylphthalate
Concen: 36.630 ng
RT: 13.746 min Scan# 1812
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:163 Resp: 978456

Ion	Ratio	Lower	Upper
163	100		
194	4.3	3.4	5.0
164	10.4	8.1	12.1



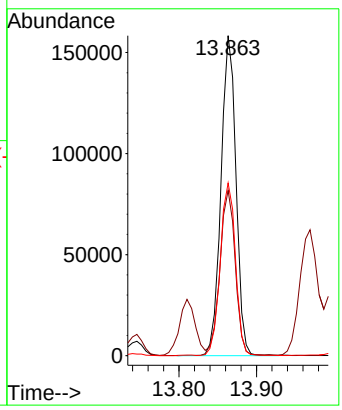


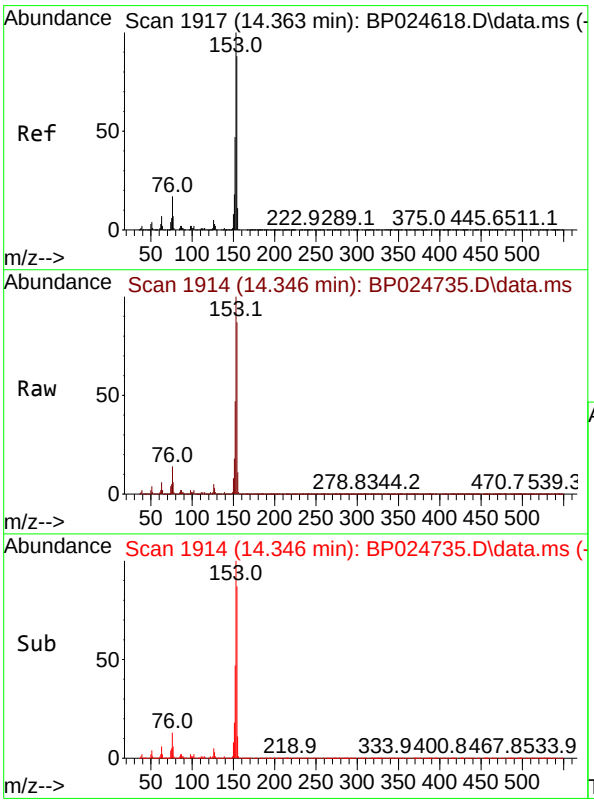
#51
2,6-Dinitrotoluene
Concen: 37.707 ng
RT: 13.863 min Scan# 1
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 212716

Ion	Ratio	Lower	Upper
165	100		
63	51.7	42.4	63.6
89	53.9	44.8	67.2

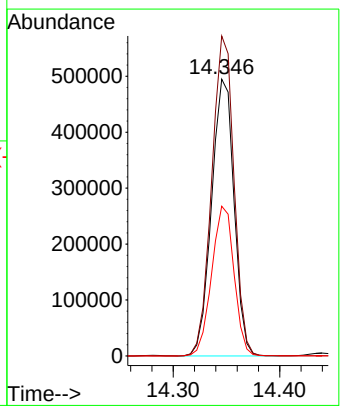


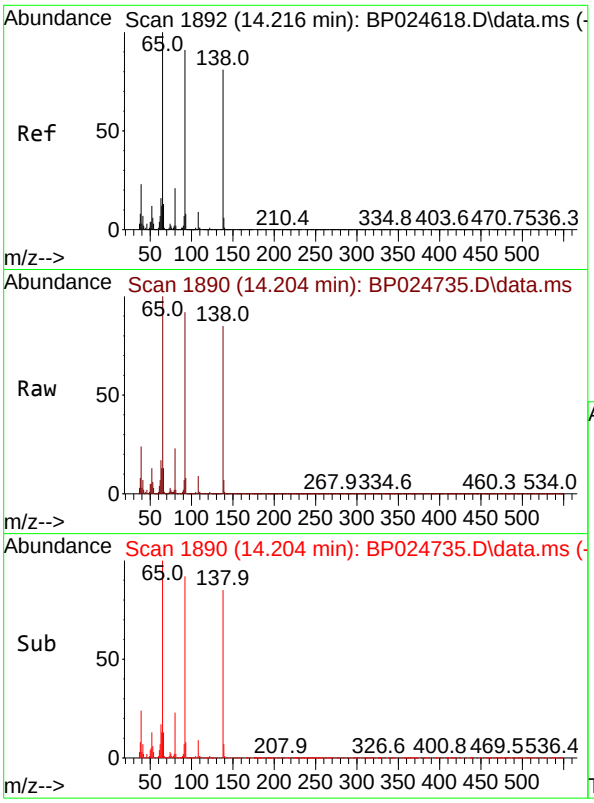


#52
Acenaphthene
Concen: 38.090 ng
RT: 14.346 min Scan# 1914
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:154 Resp: 723732

Ion	Ratio	Lower	Upper
154	100		
153	115.6	91.0	136.4
152	54.1	42.9	64.3



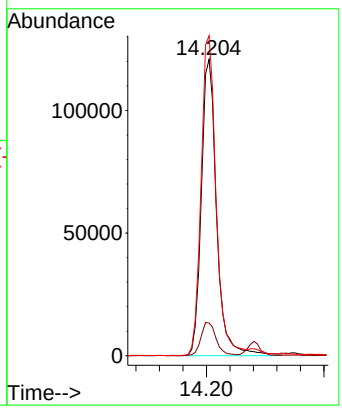


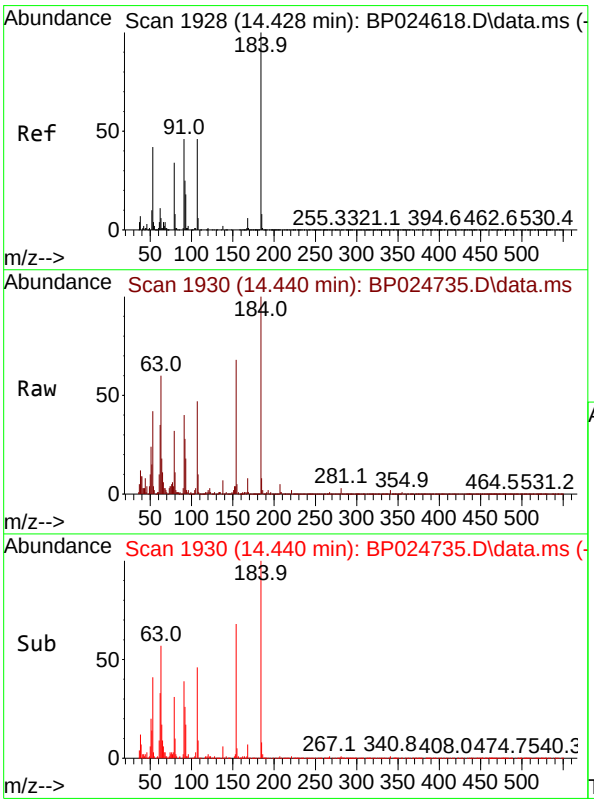
#53
3-Nitroaniline
Concen: 37.805 ng
RT: 14.204 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:138 Resp: 217767

Ion	Ratio	Lower	Upper
138	100		
108	11.0	9.0	13.4
92	108.0	90.1	135.1

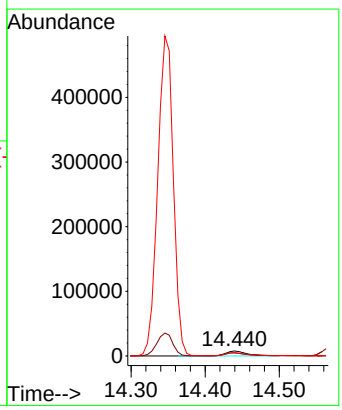


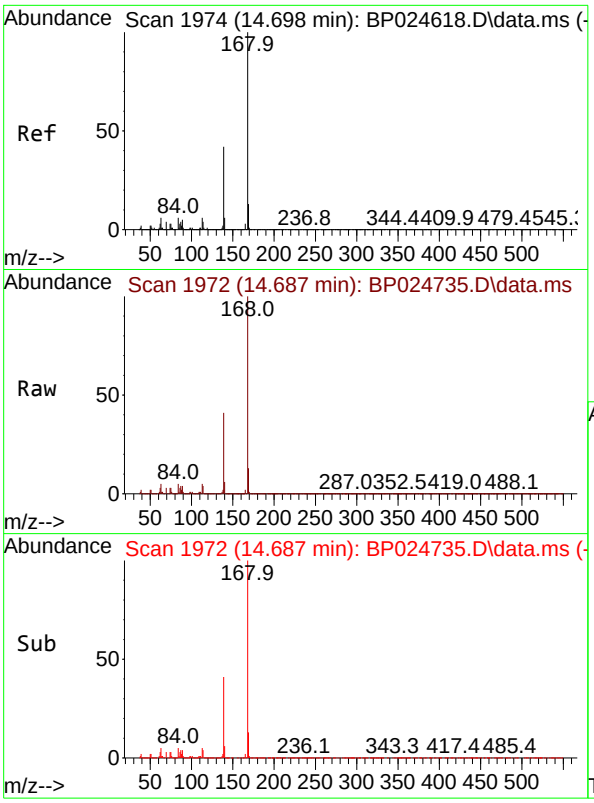


#54
2,4-Dinitrophenol
Concen: 10.460 ng
RT: 14.440 min Scan# 1930
Delta R.T. 0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:184 Resp: 15696

Ion	Ratio	Lower	Upper
184	100		
63	60.4	51.3	76.9
154	68.1	53.5	80.3



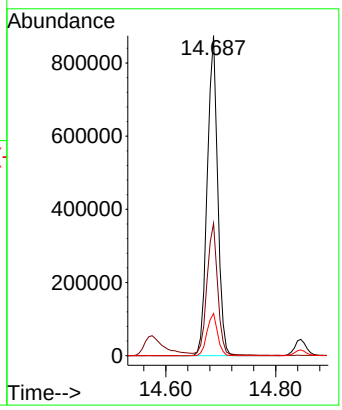


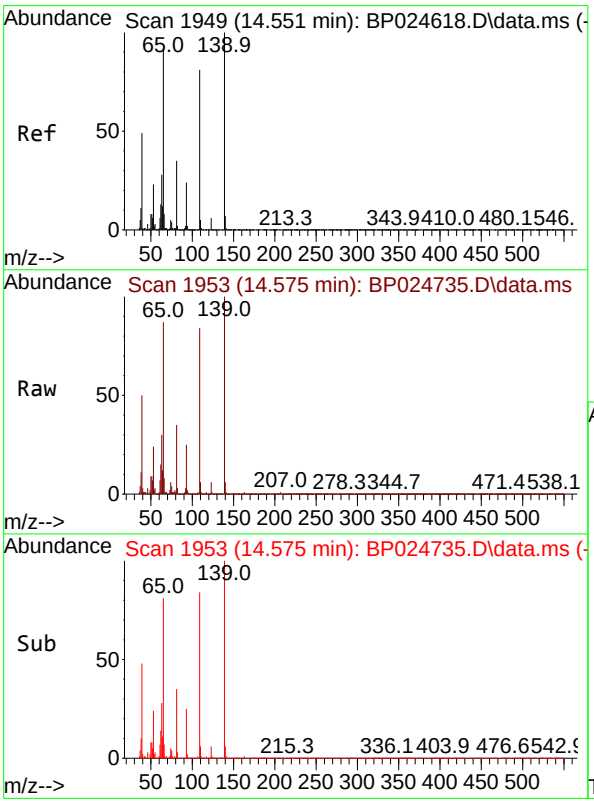
#55
Dibenzofuran
Concen: 37.811 ng
RT: 14.687 min Scan# 1
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:168 Resp: 1145935

Ion	Ratio	Lower	Upper
168	100		
139	41.3	34.2	51.4
169	13.2	10.8	16.2

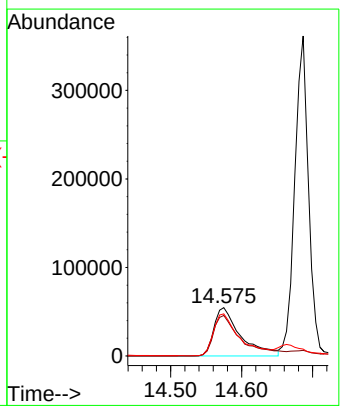


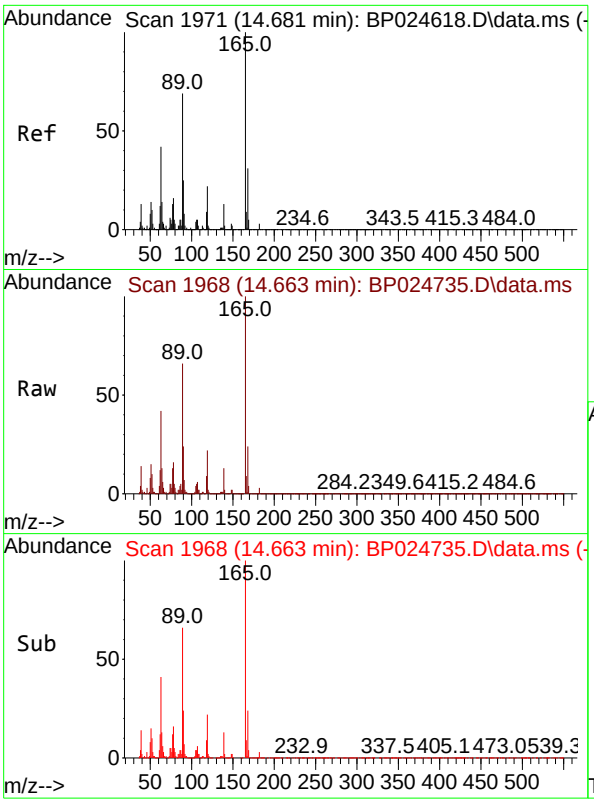


#56
4-Nitrophenol
Concen: 31.121 ng
RT: 14.575 min Scan# 1953
Delta R.T. 0.024 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:139 Resp: 141573

Ion	Ratio	Lower	Upper
139	100		
109	83.9	61.4	101.4
65	87.1	72.2	112.2



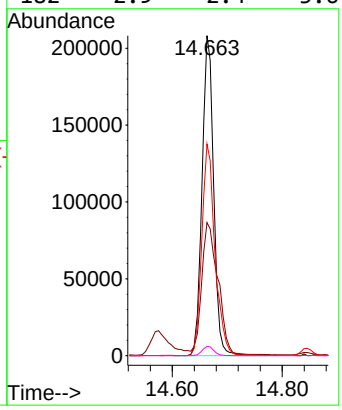


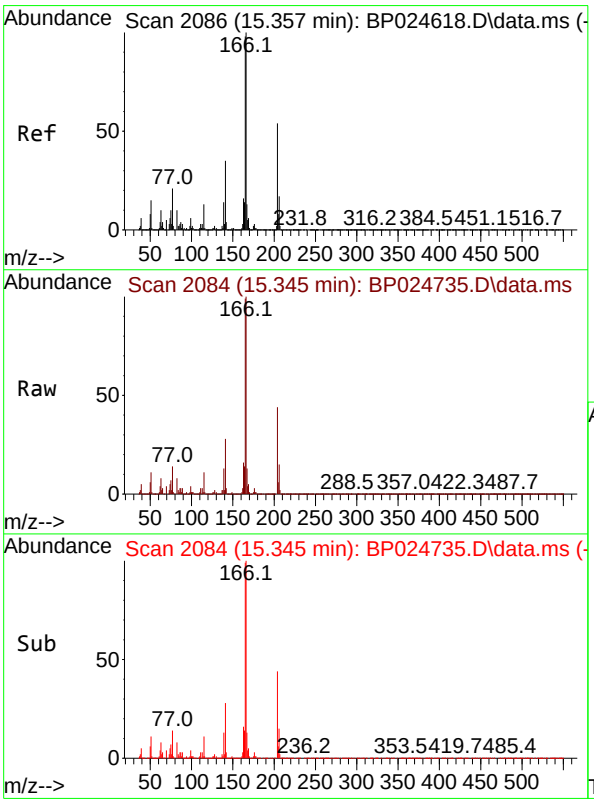
#57
2,4-Dinitrotoluene
Concen: 38.189 ng
RT: 14.663 min Scan# 1
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:165 Resp: 303730

Ion	Ratio	Lower	Upper
165	100		
63	41.6	33.8	50.6
89	66.2	55.6	83.4
182	2.9	2.4	3.6

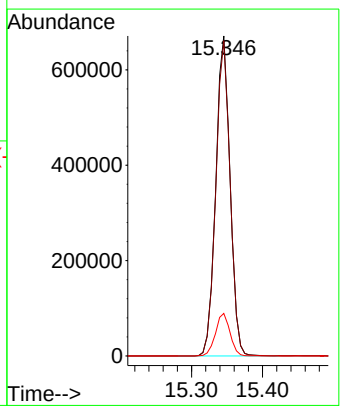


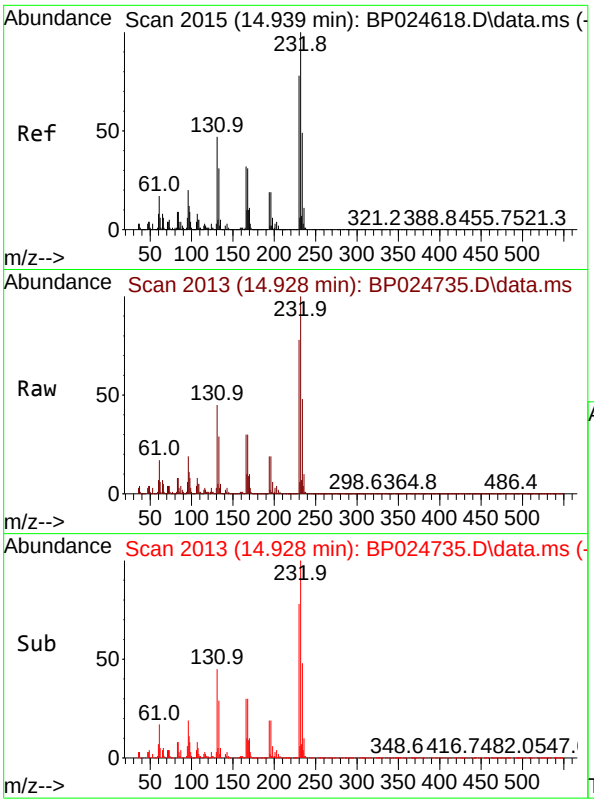


#58
Fluorene
Concen: 37.799 ng
RT: 15.345 min Scan# 2084
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:166 Resp: 934089

Ion	Ratio	Lower	Upper
166	100		
165	98.5	78.5	117.7
167	13.3	10.7	16.1



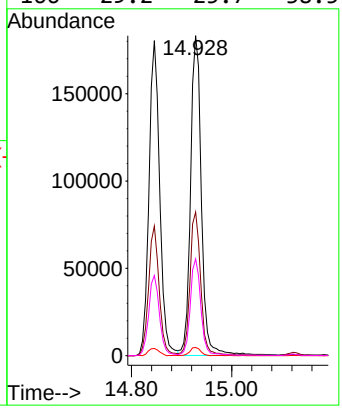


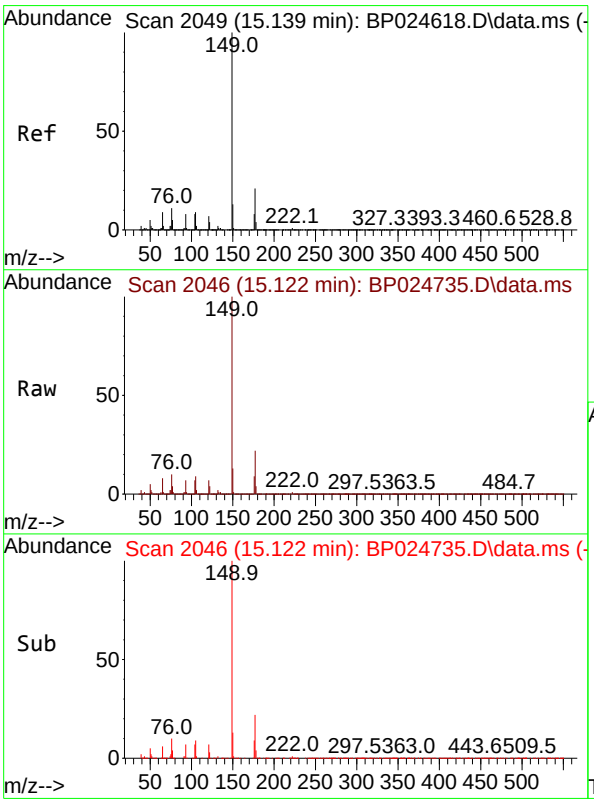
#59
2,3,4,6-Tetrachlorophenol
Concen: 40.312 ng
RT: 14.928 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:232 Resp: 274380

Ion	Ratio	Lower	Upper
232	100		
131	43.7	39.5	59.3
130	2.6	2.2	3.4
166	29.2	25.7	38.5

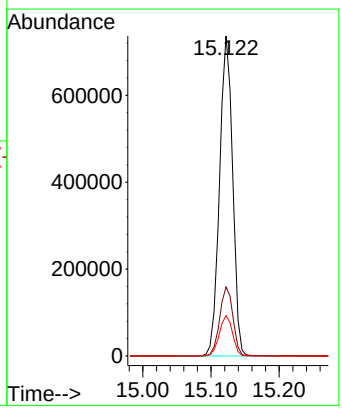


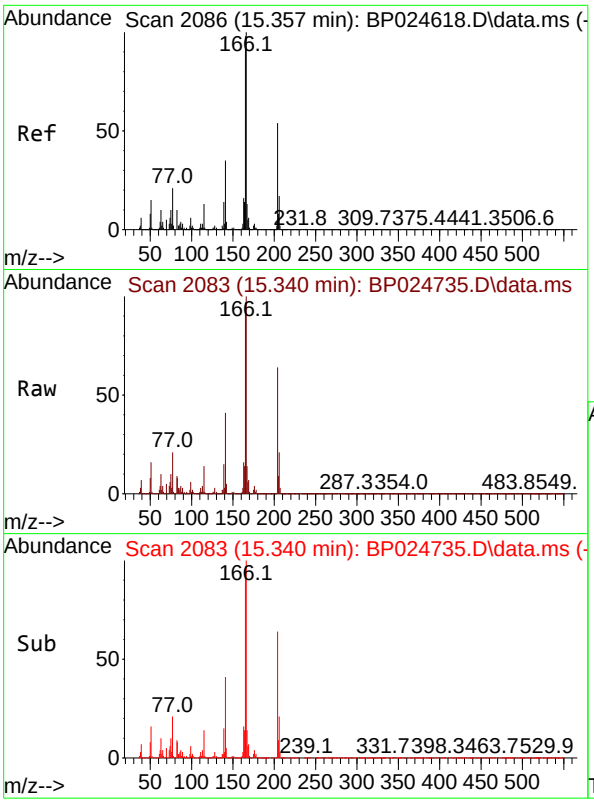


#60
Diethylphthalate
Concen: 36.452 ng
RT: 15.122 min Scan# 2046
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:149 Resp: 984129

Ion	Ratio	Lower	Upper
149	100		
177	21.6	16.7	25.1
150	12.6	10.2	15.2



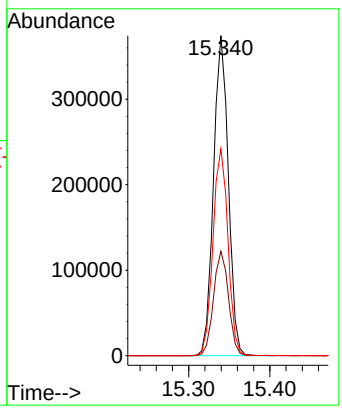


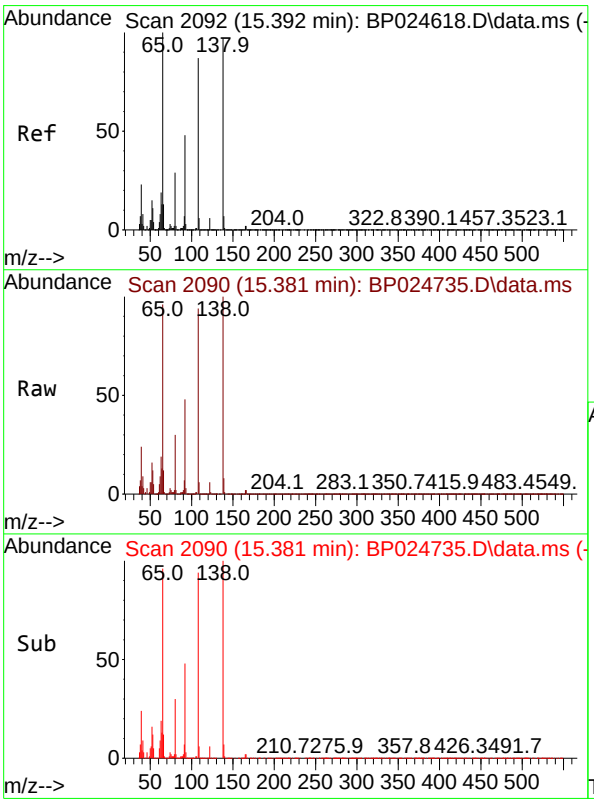
#61
4-Chlorophenyl-phenylether
Concen: 38.510 ng
RT: 15.340 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:204 Resp: 474594

Ion	Ratio	Lower	Upper
204	100		
206	32.6	26.0	39.0
141	64.7	52.9	79.3

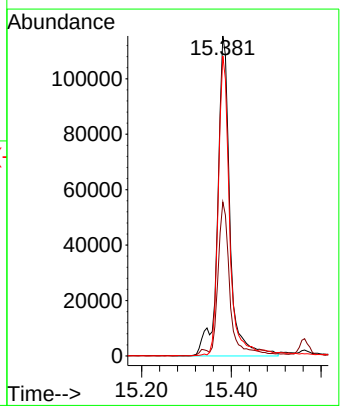


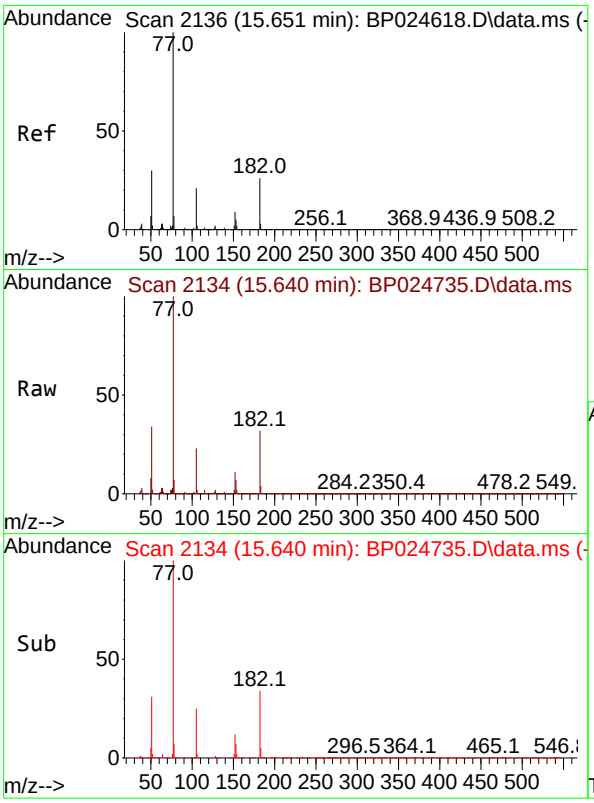


#62
4-Nitroaniline
Concen: 39.618 ng
RT: 15.381 min Scan# 2090
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:138 Resp: 220352

Ion	Ratio	Lower	Upper
138	100		
92	48.1	29.2	69.2
108	93.7	69.0	109.0



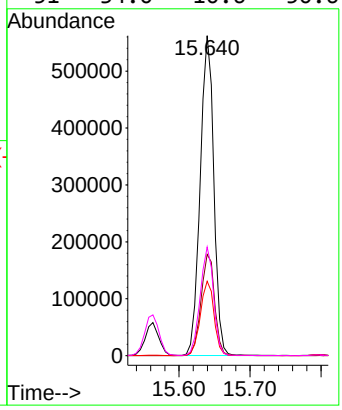


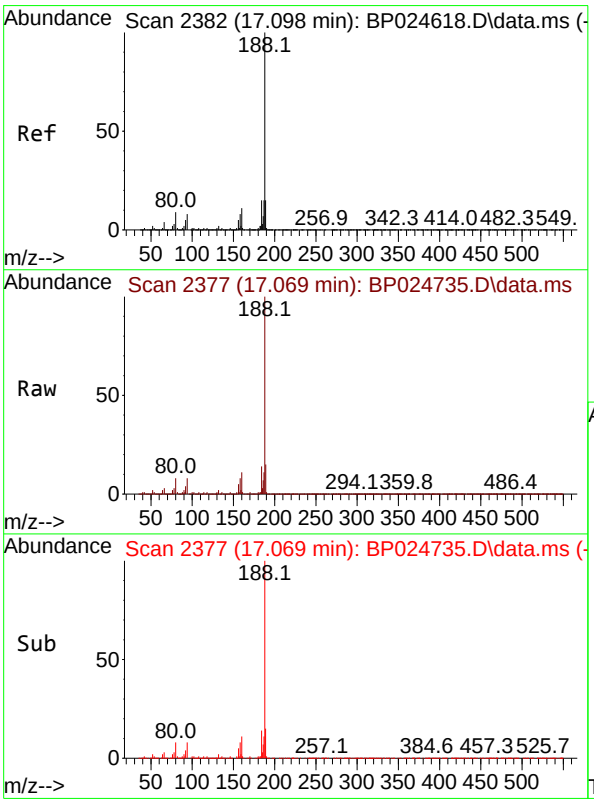
#63
Azobenzene
Concen: 32.520 ng
RT: 15.640 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion: 77 Resp: 751086

Ion	Ratio	Lower	Upper
77	100		
182	31.6	5.7	45.7
105	23.2	1.3	41.3
51	34.0	10.6	50.6

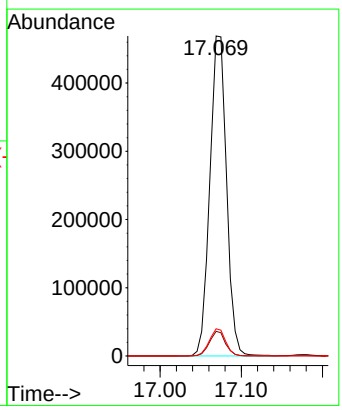


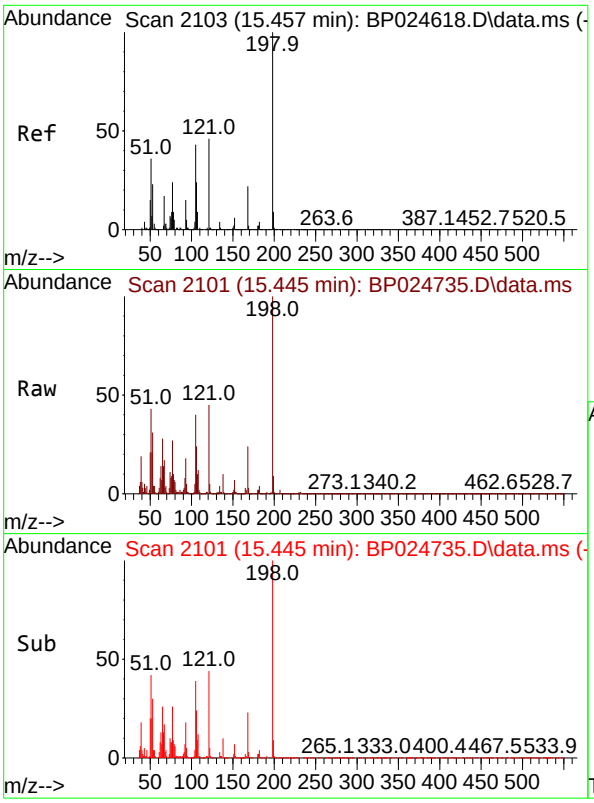


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 17.069 min Scan# 2377
Delta R.T. -0.029 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:188 Resp: 669288

Ion	Ratio	Lower	Upper
188	100		
94	7.7	6.5	9.7
80	8.5	7.3	10.9



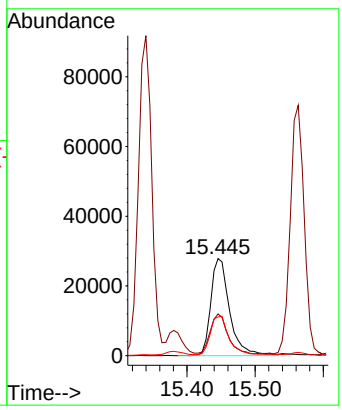


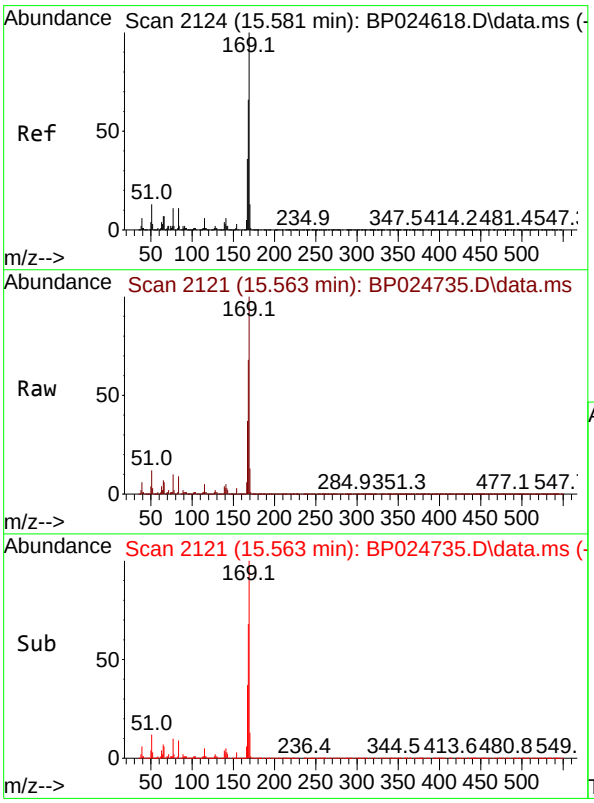
#65
4,6-Dinitro-2-methylphenol
Concen: 12.362 ng
RT: 15.445 min Scan# 21
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:198 Resp: 53443

Ion	Ratio	Lower	Upper
198	100		
51	42.9	21.1	61.1
105	39.9	23.6	63.6

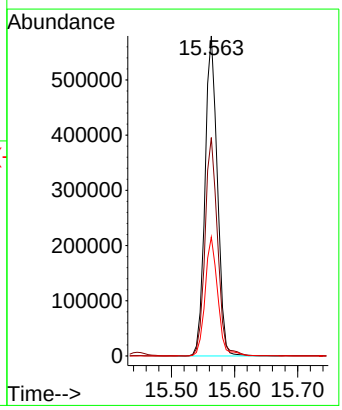


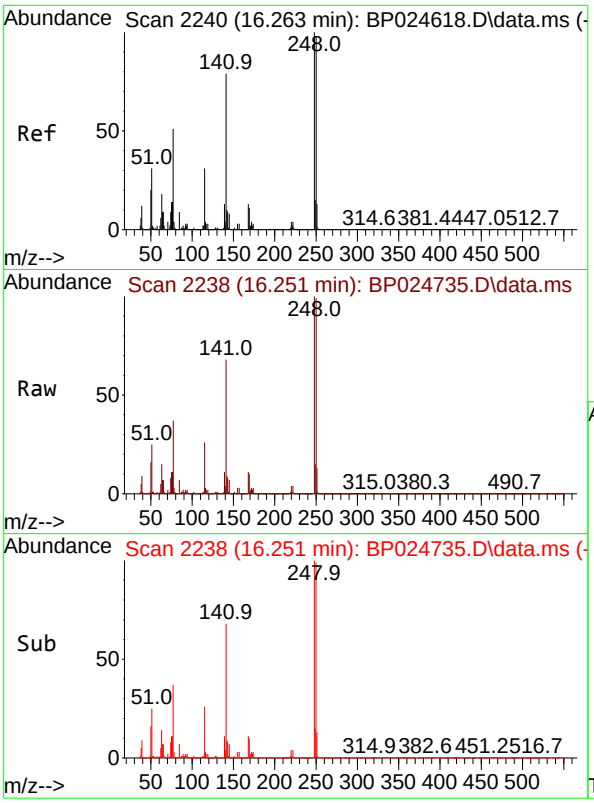


#66
n-Nitrosodiphenylamine
Concen: 38.283 ng
RT: 15.563 min Scan# 2121
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:169 Resp: 787025

Ion	Ratio	Lower	Upper
169	100		
168	68.3	53.2	79.8
167	37.1	28.6	43.0



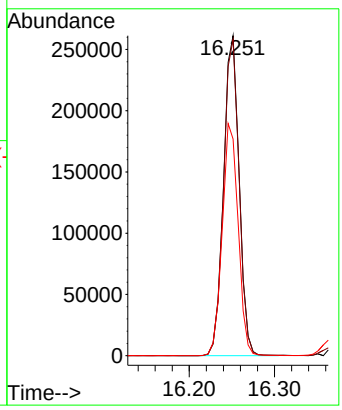


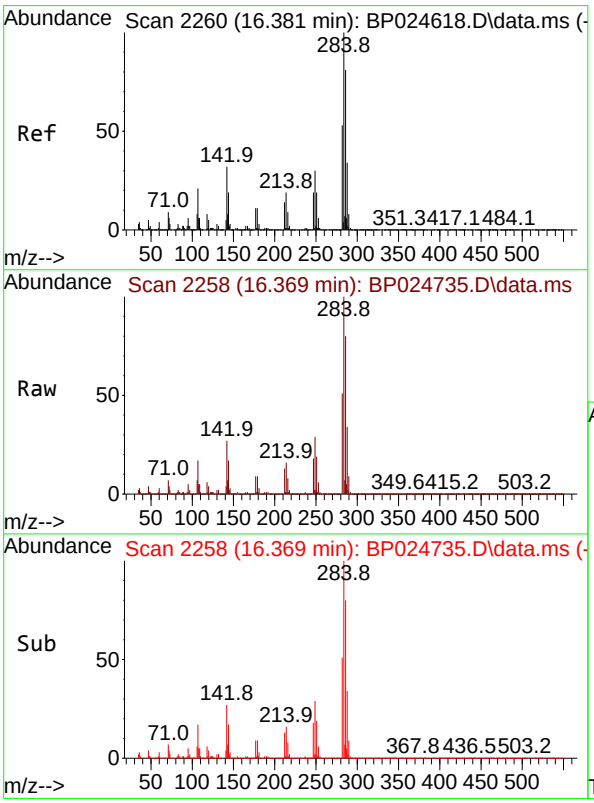
#67
4-Bromophenyl-phenylether
Concen: 42.104 ng
RT: 16.251 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:248 Resp: 332056

Ion	Ratio	Lower	Upper
248	100		
250	98.8	78.2	117.4
141	67.7	63.0	94.6

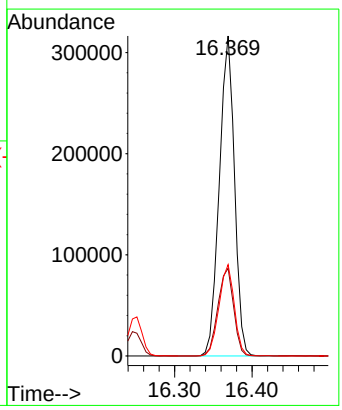


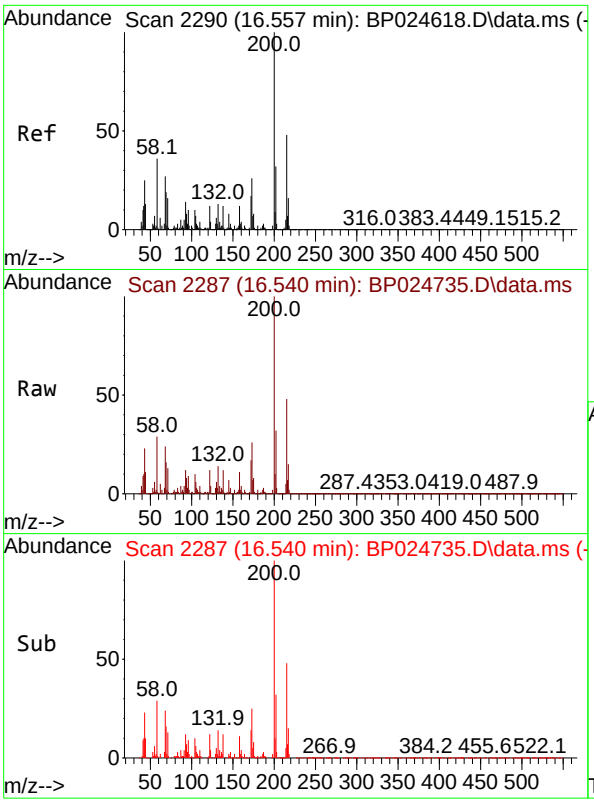


#68
Hexachlorobenzene
Concen: 42.889 ng
RT: 16.369 min Scan# 2258
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:284 Resp: 429807

Ion	Ratio	Lower	Upper
284	100		
142	27.4	25.9	38.9
249	28.6	24.1	36.1



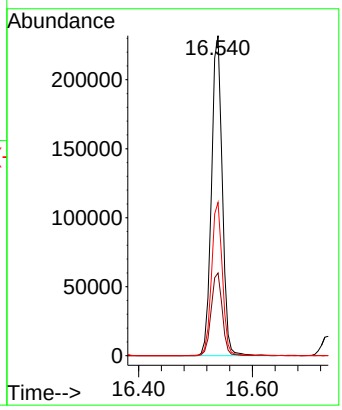


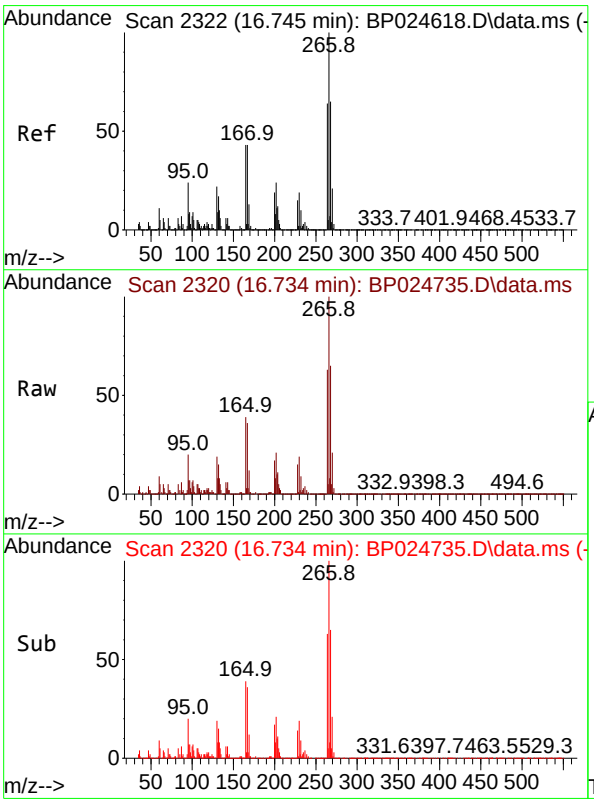
#69
Atrazine
Concen: 40.341 ng
RT: 16.540 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:200 Resp: 303928

Ion	Ratio	Lower	Upper
200	100		
173	25.9	5.9	45.9
215	47.9	28.3	68.3

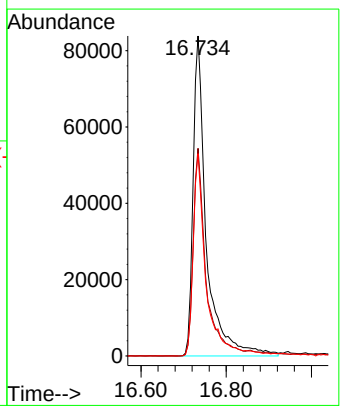


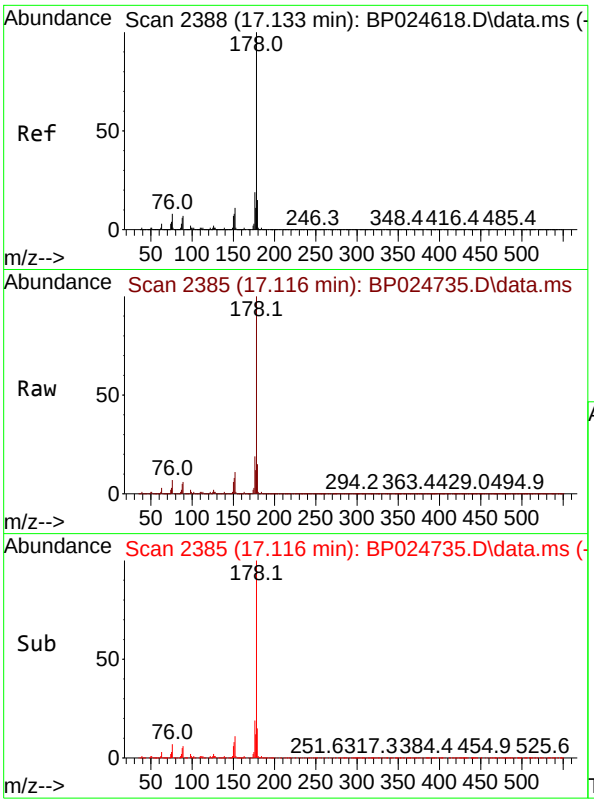


#70
Pentachlorophenol
Concen: 32.244 ng
RT: 16.734 min Scan# 2320
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:266 Resp: 181388

Ion	Ratio	Lower	Upper
266	100		
268	64.9	52.2	78.4
264	63.3	51.1	76.7



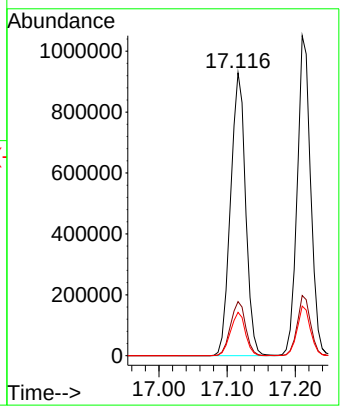


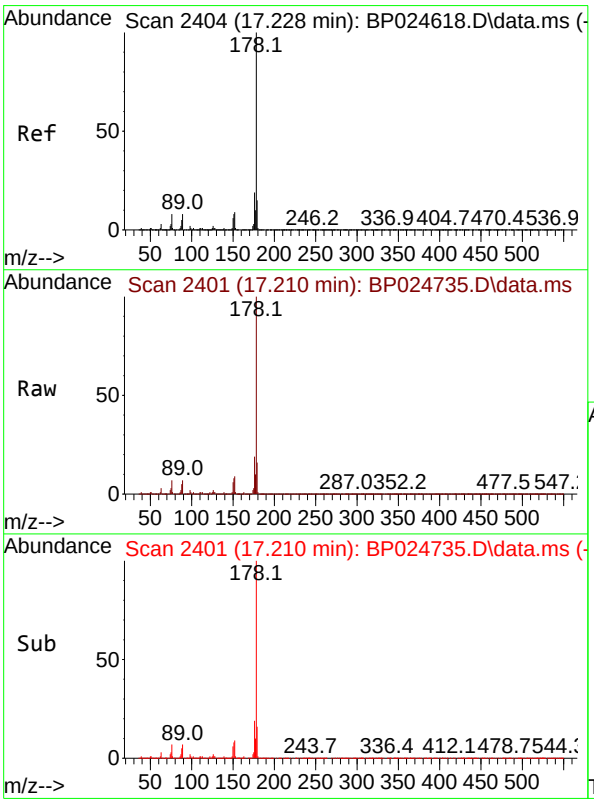
#71
Phenanthrene
Concen: 38.270 ng
RT: 17.116 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:178 Resp: 1423885

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.4	23.2
179	15.4	12.2	18.4

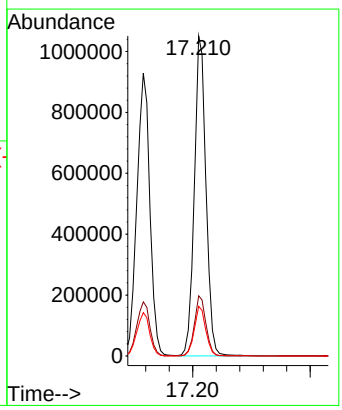


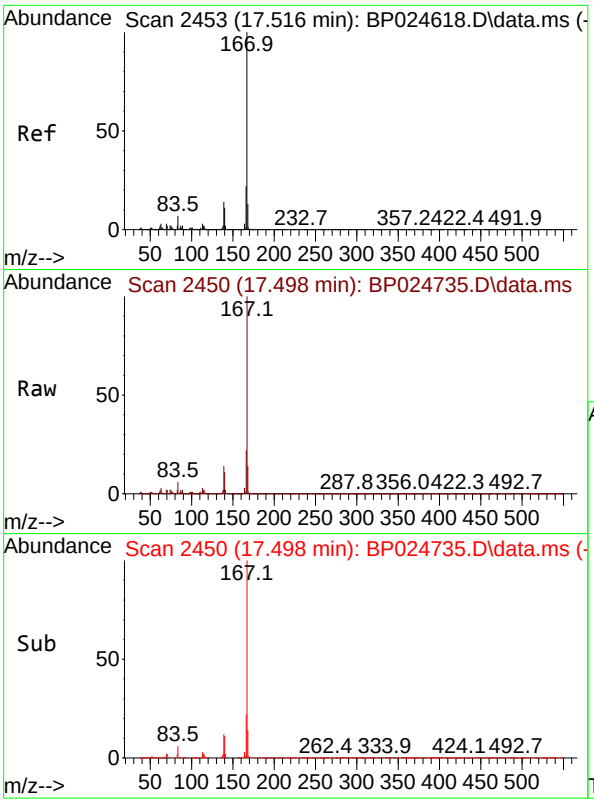


#72
Anthracene
Concen: 38.551 ng
RT: 17.210 min Scan# 2401
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:178 Resp: 1443108

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.4
179	15.5	12.2	18.2



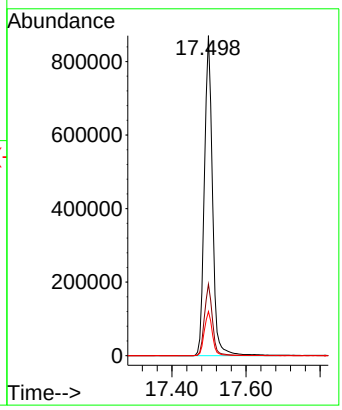


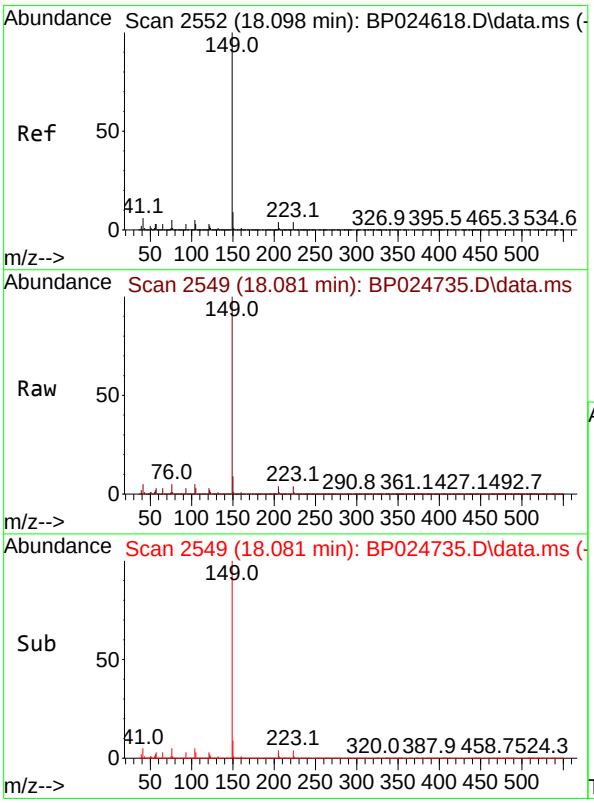
#73
Carbazole
Concen: 39.114 ng
RT: 17.498 min Scan# 24
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:167 Resp: 1325255

Ion	Ratio	Lower	Upper
167	100		
166	22.4	17.7	26.5
139	13.8	11.3	16.9

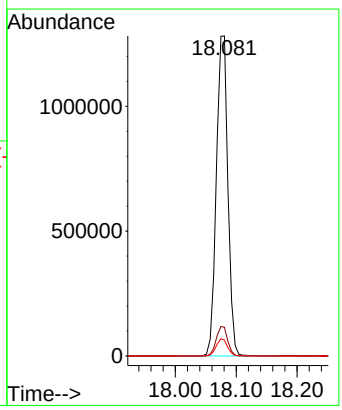


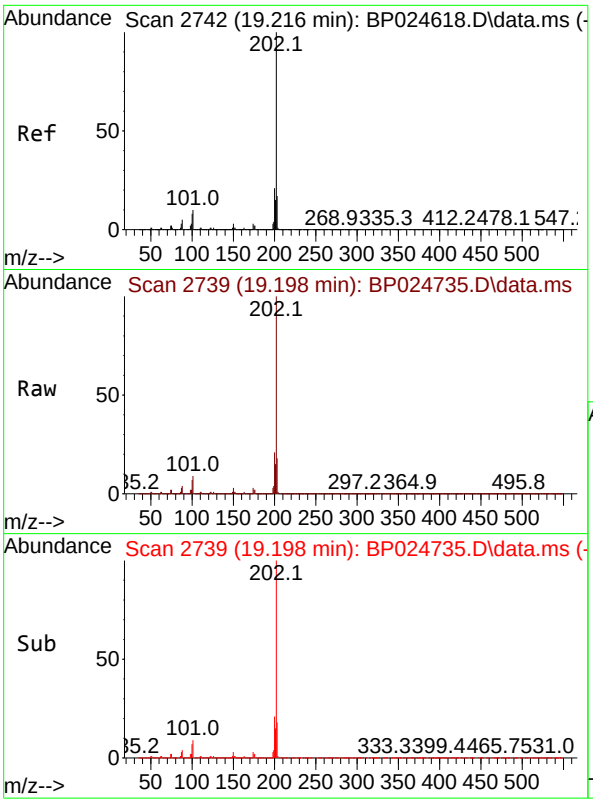


#74
Di-n-butylphthalate
Concen: 38.735 ng
RT: 18.081 min Scan# 2549
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:149 Resp: 1687862

Ion	Ratio	Lower	Upper
149	100		
150	8.9	7.2	10.8
104	5.0	4.3	6.5



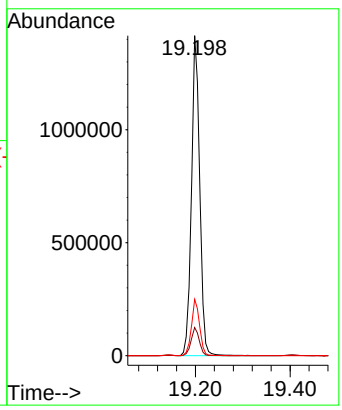


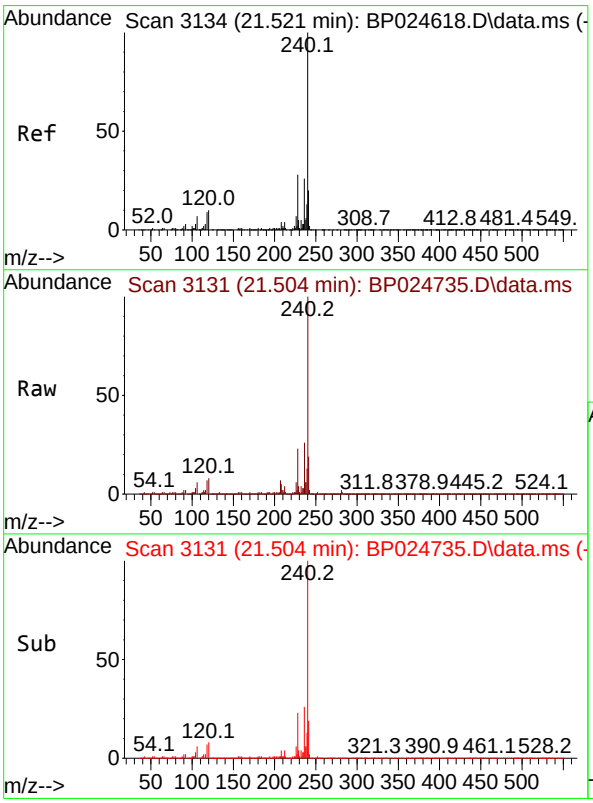
#75
Fluoranthene
Concen: 39.125 ng
RT: 19.198 min Scan# 2
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:202 Resp: 1701643

Ion	Ratio	Lower	Upper
202	100		
101	8.8	0.0	30.3
203	17.6	0.0	37.5

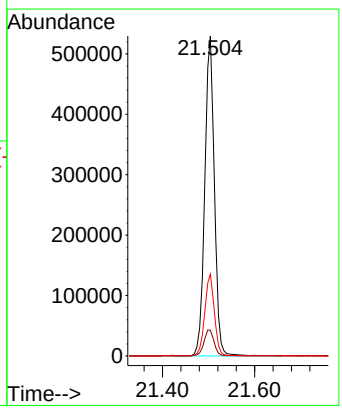


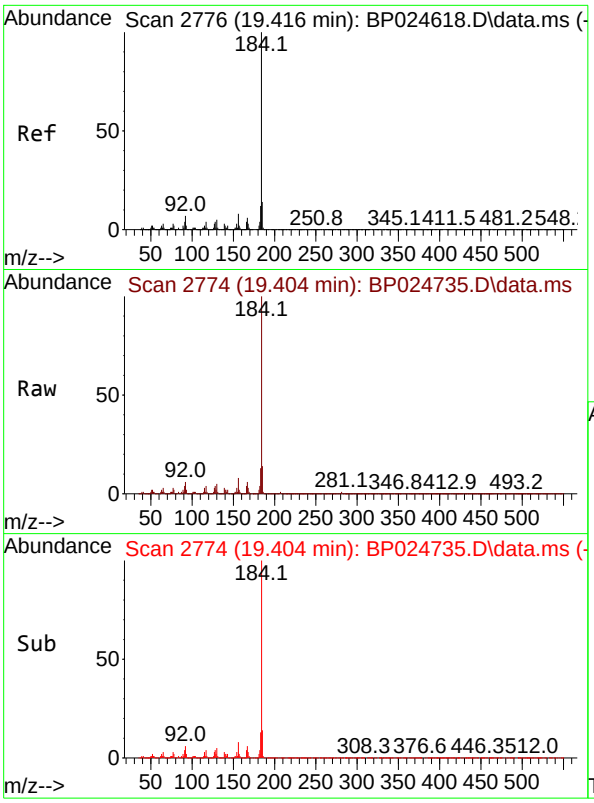


#76
Chrysene-d12
Concen: 20.000 ng
RT: 21.504 min Scan# 3131
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:240 Resp: 774145

Ion	Ratio	Lower	Upper
240	100		
120	8.1	7.8	11.6
236	25.6	20.6	31.0



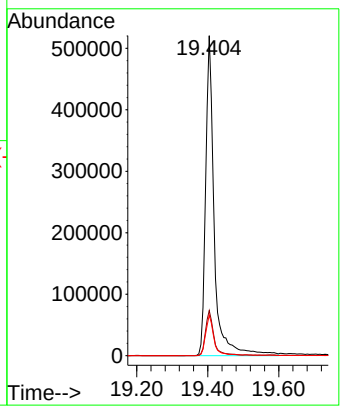


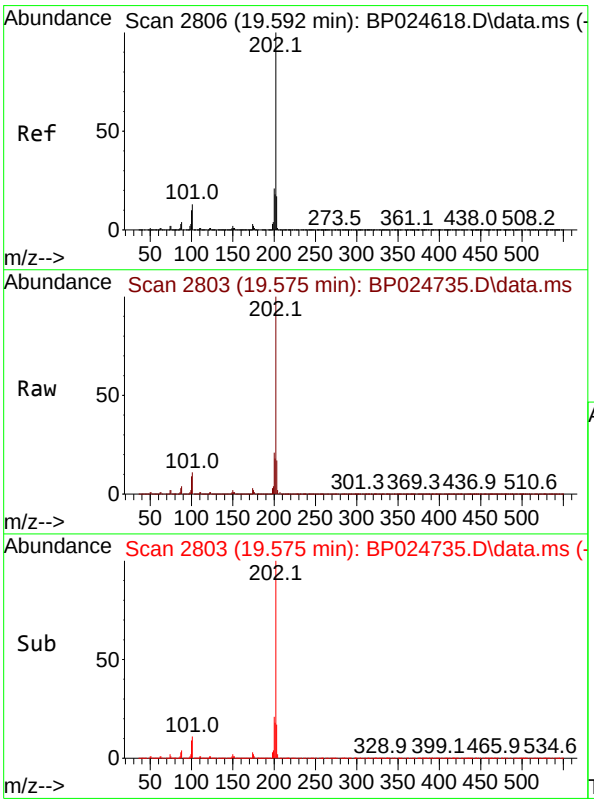
#77
Benzidine
Concen: 41.738 ng
RT: 19.404 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:184 Resp: 880033

Ion	Ratio	Lower	Upper
184	100		
185	14.1	11.2	16.8
183	12.7	9.8	14.8

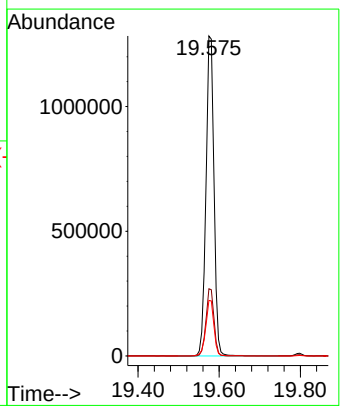


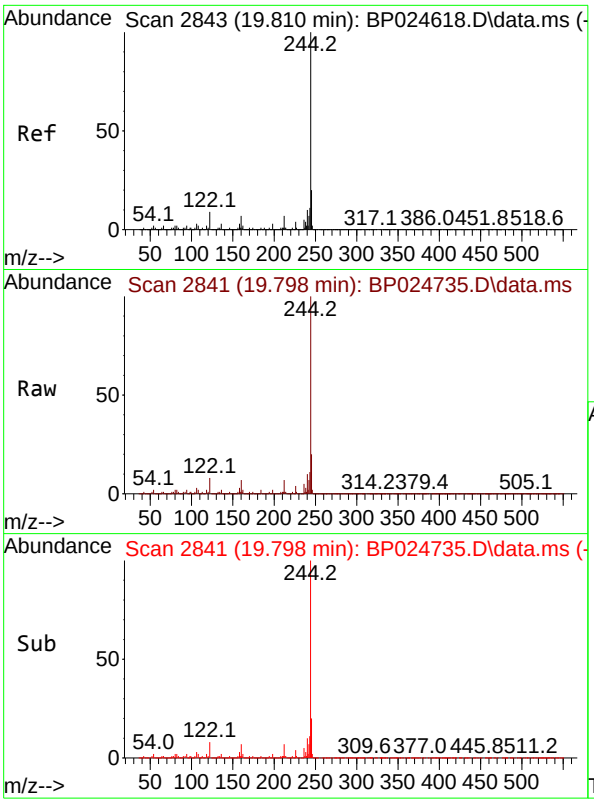


#78
Pyrene
Concen: 37.644 ng
RT: 19.575 min Scan# 2803
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:202 Resp: 1746108

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.9	25.3
203	17.4	13.9	20.9



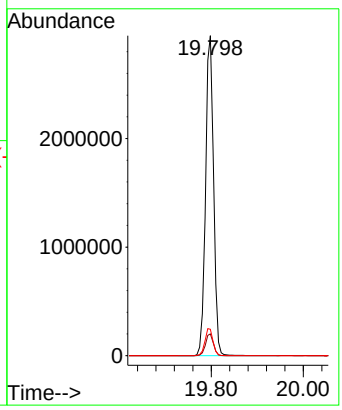


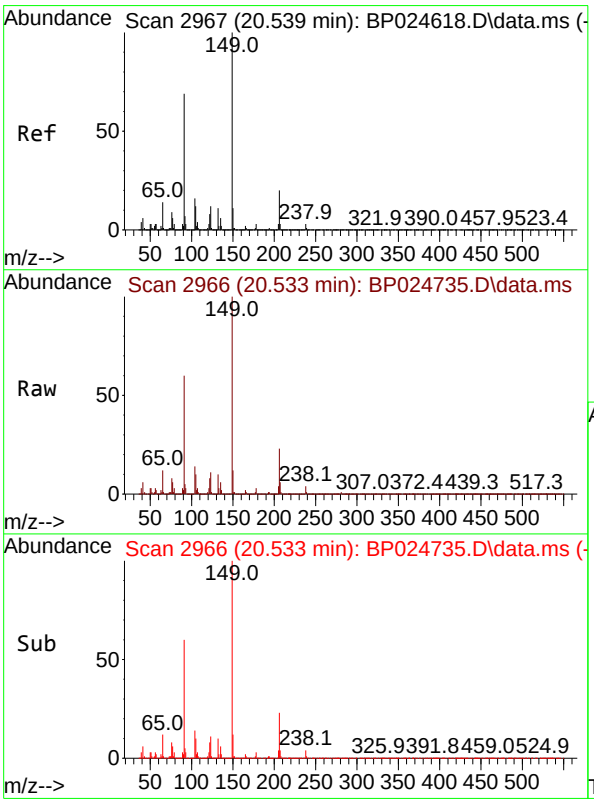
#79
Terphenyl-d14
Concen: 79.516 ng
RT: 19.798 min Scan# 2
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:244 Resp: 3589958

Ion	Ratio	Lower	Upper
244	100		
212	6.8	5.5	8.3
122	8.2	7.4	11.0

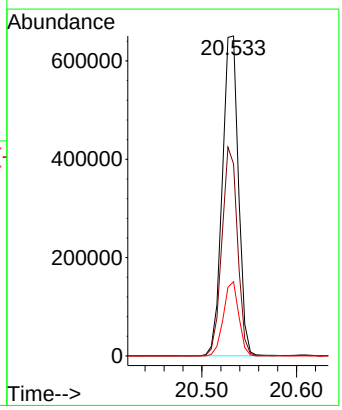


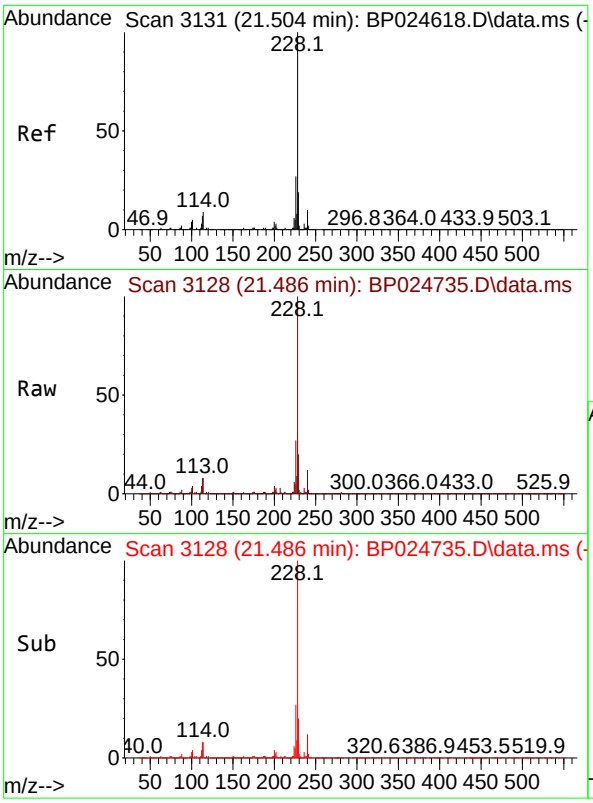


#80
Butylbenzylphthalate
Concen: 37.363 ng
RT: 20.533 min Scan# 2966
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:149 Resp: 770766

Ion	Ratio	Lower	Upper
149	100		
91	60.0	55.4	83.0
206	23.2	16.2	24.2



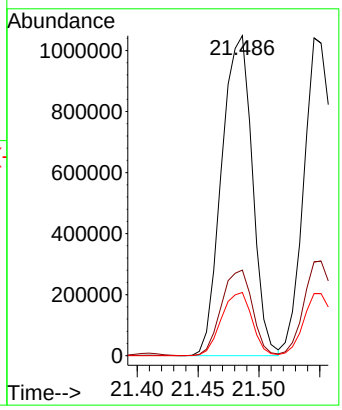


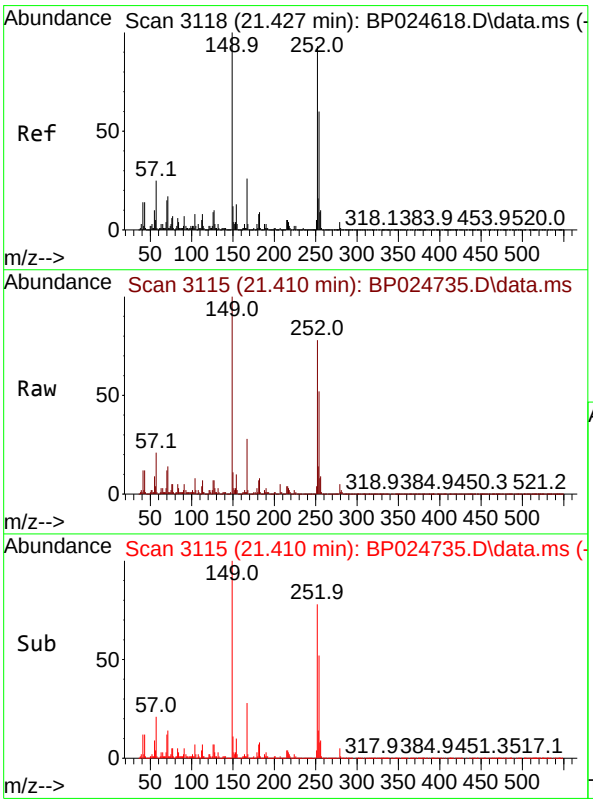
#81
Benzo(a)anthracene
Concen: 37.885 ng
RT: 21.486 min Scan# 3
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 1841586

Ion	Ratio	Lower	Upper
228	100		
226	26.8	21.4	32.0
229	19.8	15.5	23.3

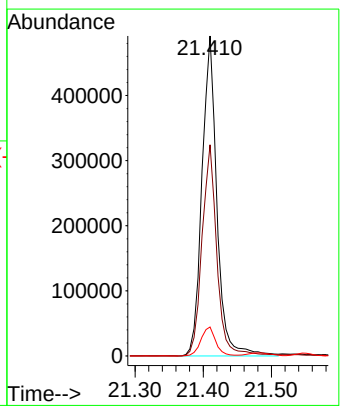


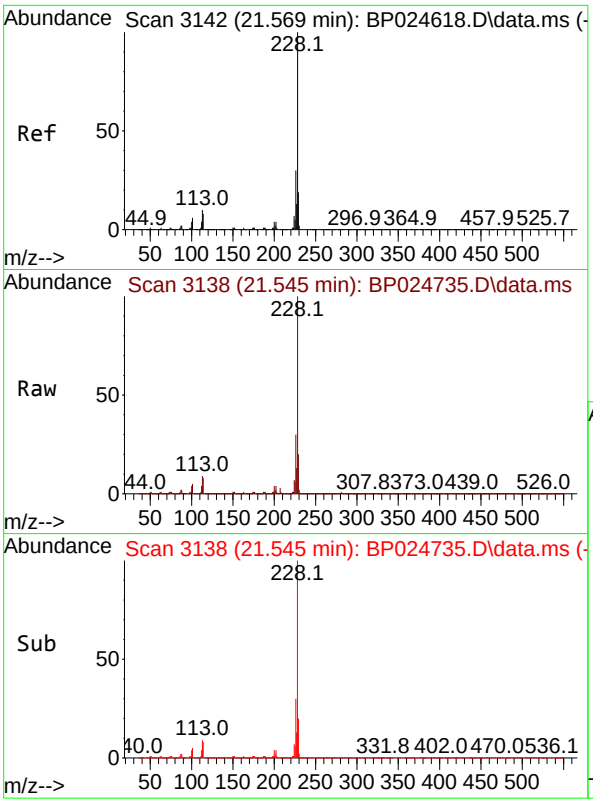


#82
3,3'-Dichlorobenzidine
Concen: 41.632 ng
RT: 21.410 min Scan# 3115
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:252 Resp: 751644

Ion	Ratio	Lower	Upper
252	100		
254	66.0	51.8	77.6
126	9.1	7.7	11.5



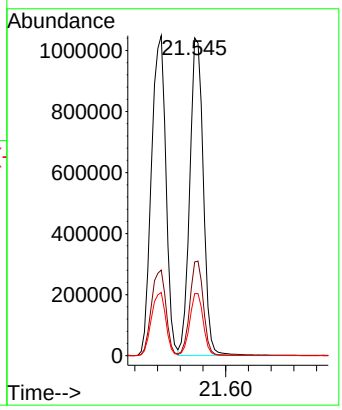


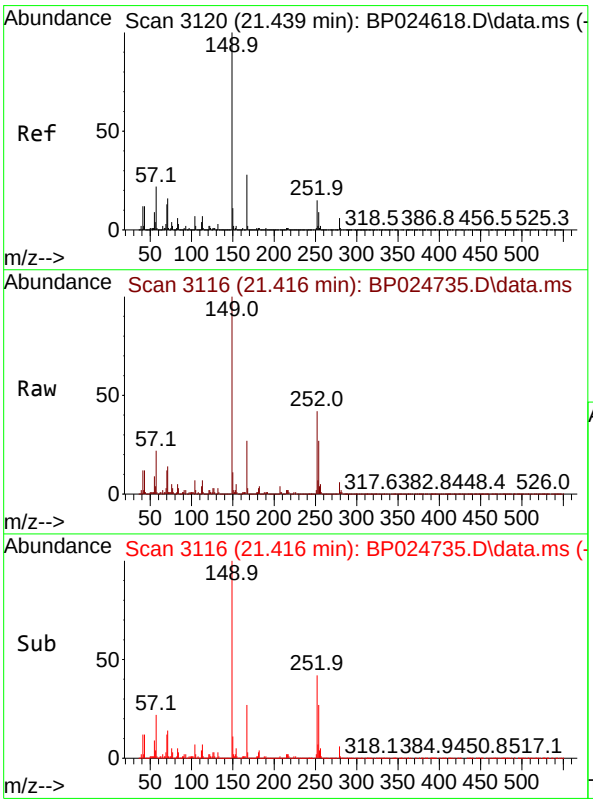
#83
Chrysene
Concen: 37.454 ng
RT: 21.545 min Scan# 3
Delta R.T. -0.023 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:228 Resp: 1725888

Ion	Ratio	Lower	Upper
228	100		
226	29.5	23.9	35.9
229	19.6	15.5	23.3

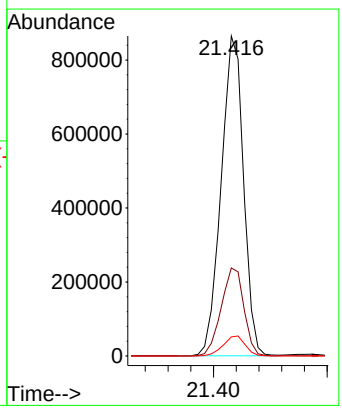


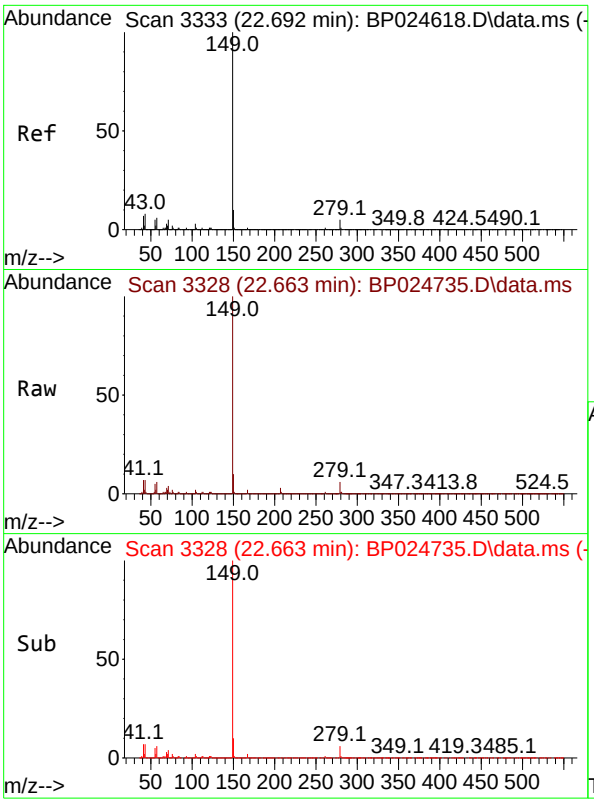


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.963 ng
RT: 21.416 min Scan# 3116
Delta R.T. -0.023 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:149 Resp: 1181419

Ion	Ratio	Lower	Upper
149	100		
167	27.5	22.1	33.1
279	6.0	4.6	6.8



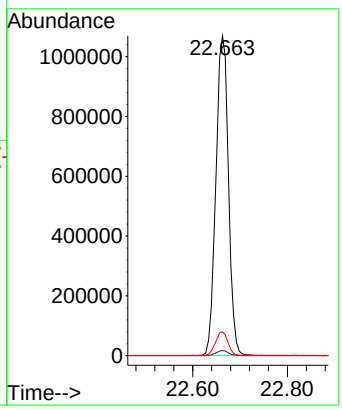


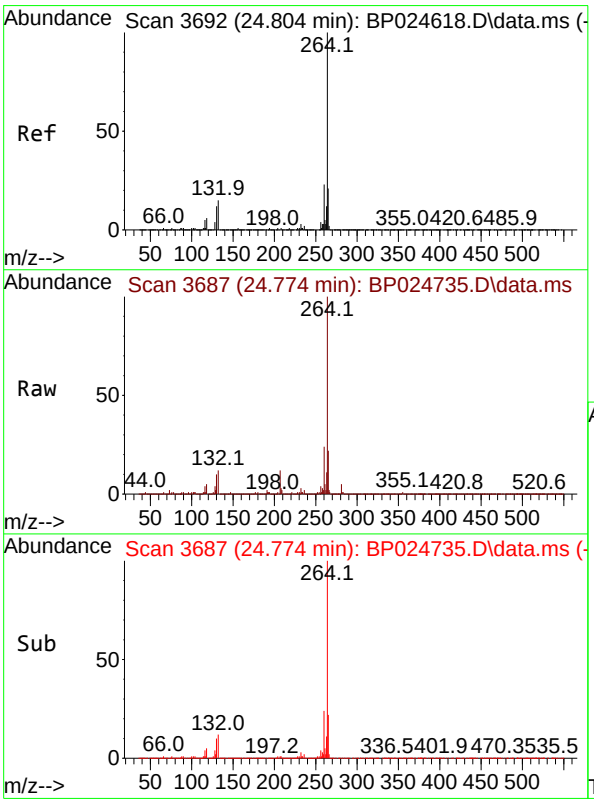
#85
Di-n-octyl phthalate
Concen: 39.572 ng
RT: 22.663 min Scan# 3
Delta R.T. -0.029 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:149 Resp: 1962163

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.2	1.8
43	7.4	6.3	9.5

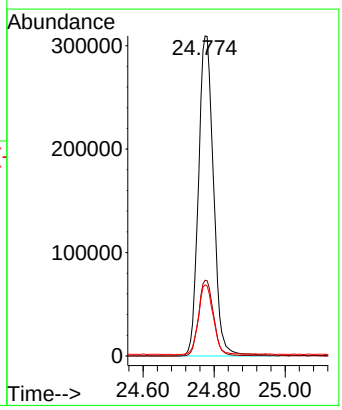


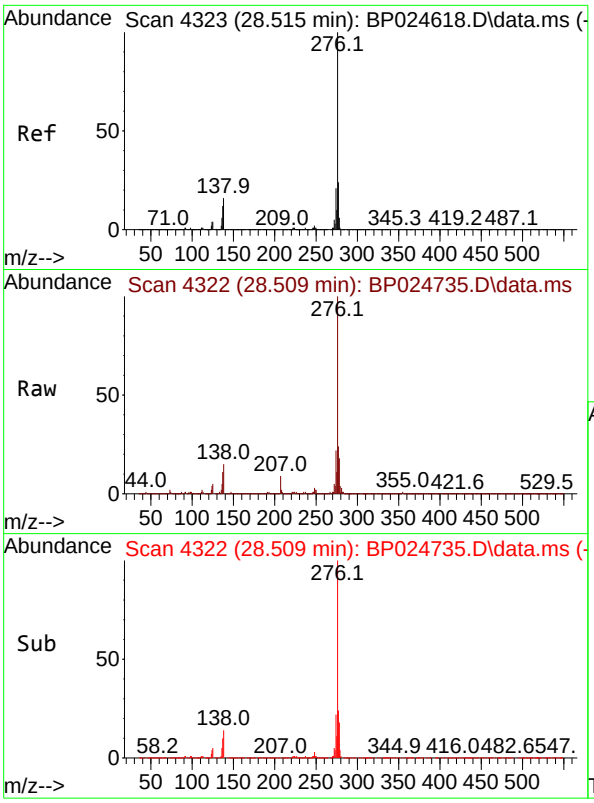


#86
Perylene-d12
Concen: 20.000 ng
RT: 24.774 min Scan# 3687
Delta R.T. -0.029 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:264 Resp: 911806

Ion	Ratio	Lower	Upper
264	100		
260	23.7	18.7	28.1
265	22.2	17.0	25.6



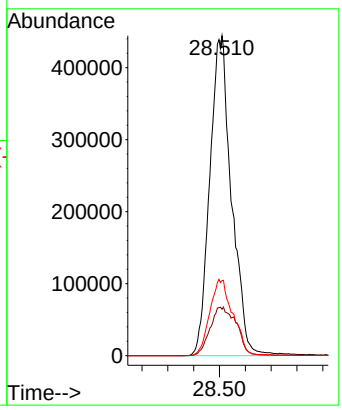


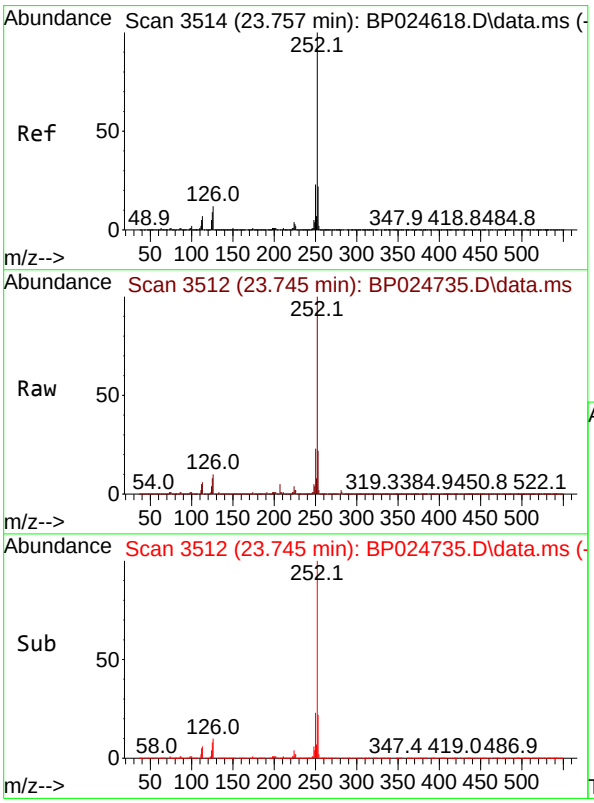
#87
Indeno(1,2,3-cd)pyrene
Concen: 39.091 ng
RT: 28.509 min Scan# 4
Delta R.T. -0.006 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:276 Resp: 2602162

Ion	Ratio	Lower	Upper
276	100		
138	18.4	11.2	16.8#
277	25.4	15.7	23.5#

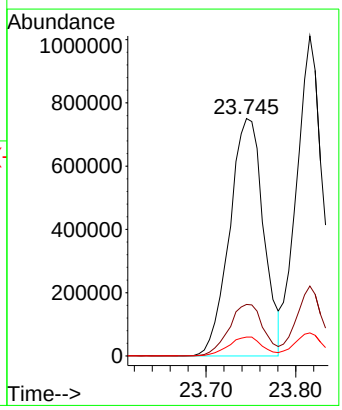


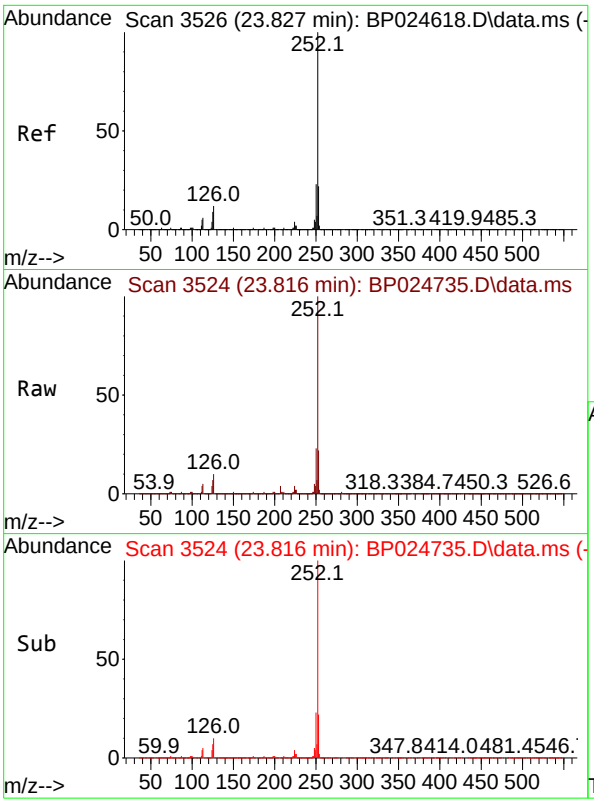


#88
Benzo(b)fluoranthene
Concen: 37.787 ng
RT: 23.745 min Scan# 3512
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:252 Resp: 1972108

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.7	26.5
125	8.0	7.5	11.3



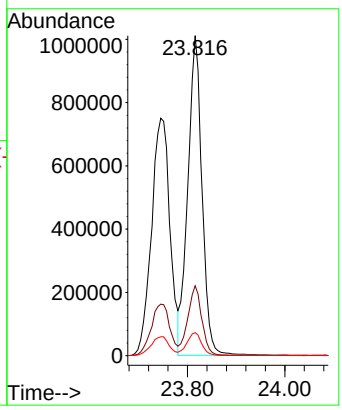


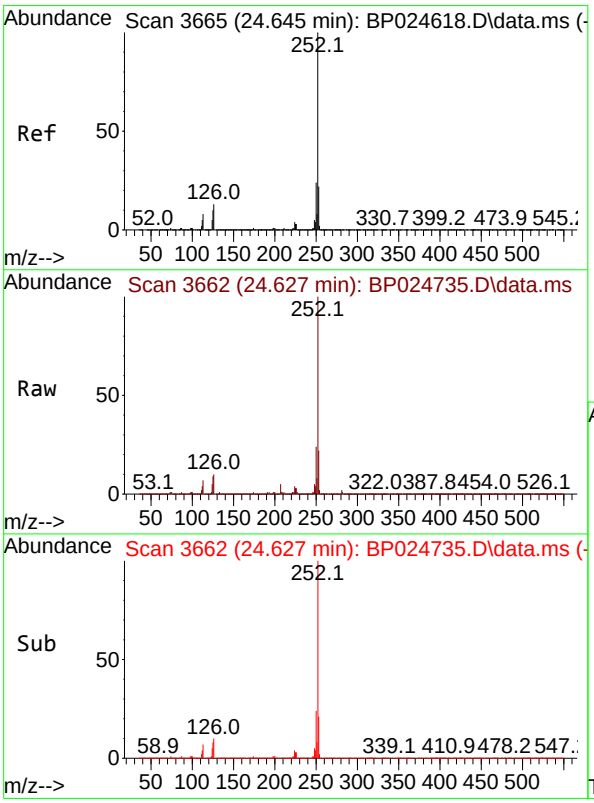
#89
Benzo(k)fluoranthene
Concen: 38.003 ng
RT: 23.816 min Scan# 3
Delta R.T. -0.012 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:252 Resp: 2043746

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	7.2	7.0	10.4

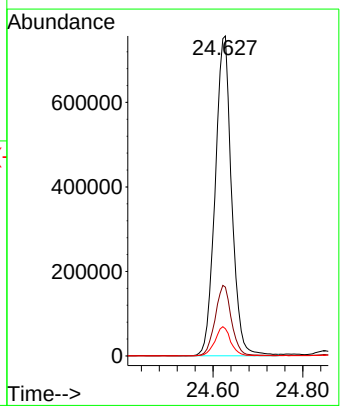


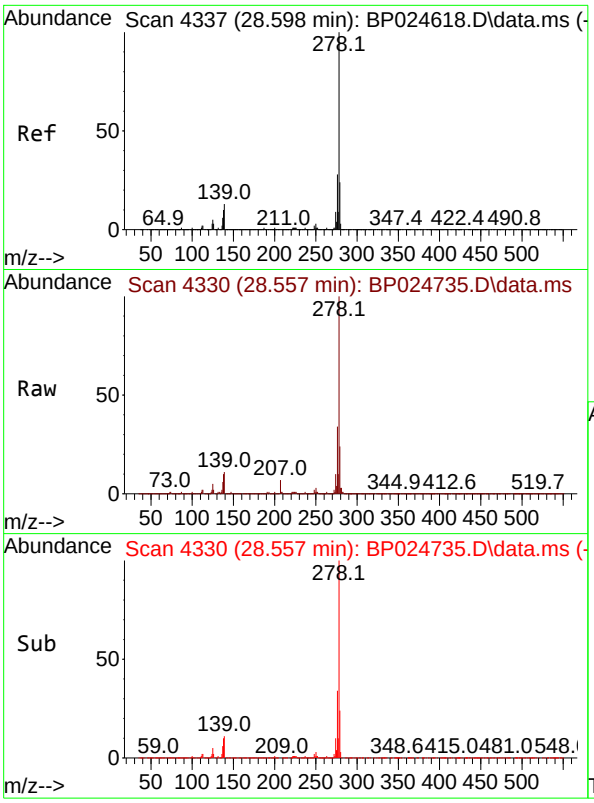


#90
Benzo(a)pyrene
Concen: 38.466 ng
RT: 24.627 min Scan# 3662
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:252 Resp: 1928078

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.7	26.5
125	8.5	8.1	12.1



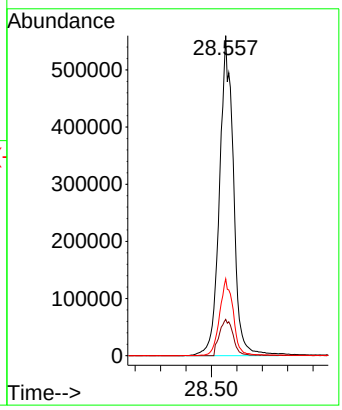


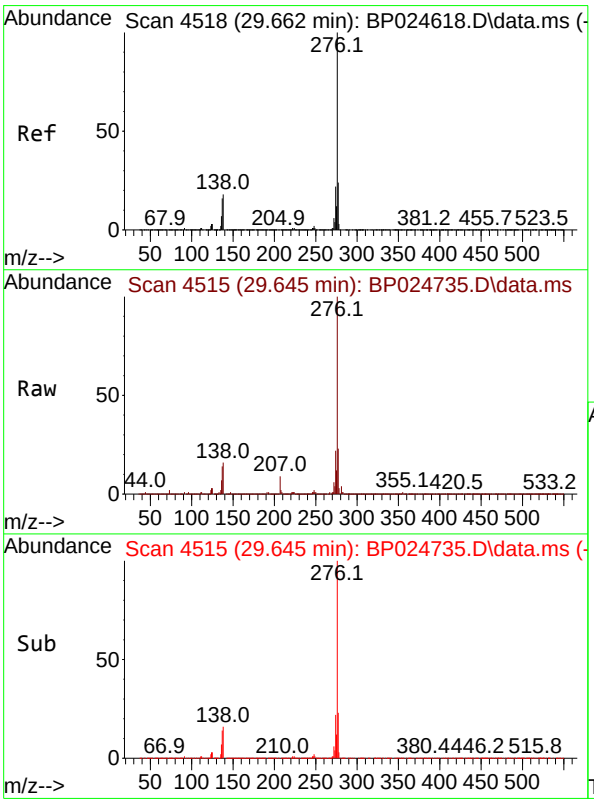
#91
Dibenzo(a,h)anthracene
Concen: 39.353 ng
RT: 28.557 min Scan# 4
Delta R.T. -0.041 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Instrument :
BNA_P
ClientSampleId :
SSTDCCC040EC

Tgt Ion:278 Resp: 2131169

Ion	Ratio	Lower	Upper
278	100		
139	11.3	10.2	15.4
279	24.0	19.0	28.4





#92
Benzo(g,h,i)perylene
Concen: 38.650 ng
RT: 29.645 min Scan# 4515
Delta R.T. -0.017 min
Lab File: BP024735.D
Acq: 21 May 2025 10:56

Tgt Ion:276 Resp: 2081468

Ion	Ratio	Lower	Upper
276	100		
277	23.2	19.0	28.4
138	15.6	14.4	21.6