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Cover Page

Order ID : P3845

Project ID : NJ Waste Water PT

Client : Chemtech Consulting Group

Lab Sample Number	Client Sample Number
P3845-01	PT-VOA-WP
P3845-02	PT-VOA-WP
P3845-03	PT-BN-WP
P3845-04	PT-BN-WP
P3845-05	PT-BN-WP
P3845-06	PT-ACIDS-WP
P3845-07	PT-ACIDS-WP
P3845-08	PT-ACIDS-WP
P3845-09	PT-PEST-WP
P3845-10	PT-PEST-WP
P3845-11	PT-CHLR-WP
P3845-12	PT-CHLR-WP
P3845-13	PT-TXP-WP
P3845-14	PT-TXP-WP
P3845-15	PT-PCBW-WP
P3845-16	PT-PCBW-WP
P3845-17	PT-HERB-WP
P3845-18	RR-GAS-WP
P3845-19	RR-DIES-WP
P3845-20	RR-8011-WP
P3845-21	RR-PAH-WP
P3845-22	RR-TRIAZINE-WP

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

Signature : _____

Date: 10/21/2024

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Chemtech Consulting Group
Project Name: NJ Waste Water PT
Project # N/A
Chemtech Project # P3845
Test Name: SVOCMS Group4

A. Number of Samples and Date of Receipt:
22 Water samples were received on 09/05/2024.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: Diesel Range Organics, Gasoline Range Organics, Herbicide group1, PCB, PESTICIDE Group1, PESTICIDE Group2, PESTICIDE Group3, SVOCMS Group1, SVOCMS Group2, SVOCMS Group3, SVOCMS Group4, SVOCMS Group5, SVOCMS Group6, VOCGC Group 1 and VOCMS Group1. This data package contains results for SVOCMS Group4.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_N 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 Group4 was based on method 8270-Modified and extraction was done based on method 3510.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for PT-ACIDS-WP [2,4,6-Tribromophenol - 156%, 2-Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%, Nitrobenzene-d5 - 124%, Phenol-d6 - 115%], PT-ACIDS-WPDL [2,4,6-Tribromophenol - 144%, 2-Fluorophenol - 107%, 2-Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%, Nitrobenzene-d5 - 131%, Phenol-d6 - 120%], PT-ACIDS-WPDL2 [2-Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%, Phenol-d6 - 103%], PB163341BS [2-Fluorophenol - 102% and Phenol-d6 - 101%], This sample was extracted for full scan analysis and above mention surrogates were not part of full scan extraction therefore no corrective action is required.

The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.

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The RPD for {PB163341BSD} with File ID: BN034053.D met criteria except for 4,6-Dinitro-2-methylphenol[21%], due to difference in results of BS and BSD.

The Blank Spike met requirements for all samples .
The Blank Spike Duplicate 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.

Samples PT-ACIDS-WP, PT-ACIDS-WPDL were diluted due to high concentrations.

E. Additional Comments:
The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

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

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

Signature_____

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DATA REPORTING QUALIFIERS- ORGANIC

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

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

ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

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

CHEMTECH PROJECT NUMBER: P3845 MATRIX: Water

METHOD: 8270-Modified/3510

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements . The Continuous Calibration met the requirements .			
6.	Blank Contamination - If yes, list compounds and concentrations in each blank:		✓	
7.	Surrogate Recoveries Meet Criteria		✓	
	If not met, list those compounds and their recoveries which fall outside the acceptable ranges.			
	The Surrogate recoveries met the acceptable criteria except for PT-ACIDS-WP [2,4,6-Tribromophenol - 156%, 2-Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%, Nitrobenzene-d5 - 124%, Phenol-d6 - 115%], PT-ACIDS-WPDL [2,4,6-Tribromophenol - 144%, 2-Fluorophenol - 107%, 2-Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%, Nitrobenzene-d5 - 131%, Phenol-d6 - 120%], PT-ACIDS-WPDL2 [2-Methylnaphthalene-d10 - 0%, Fluoranthene-d10 - 0%, Phenol-d6 - 103%], PB163341BS [2-Fluorophenol - 102% and Phenol-d6 - 101%], This sample was extracted for full scan analysis and above mention surrogates were not part of full scan extraction therefore no corrective action is required.			

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

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓
	If not met, list those compounds and their recoveries which fall outside the acceptable range.			
	The Blank Spike met requirements for all samples . The Blank Spike Duplicate met requirements for all samples .The RPD for {PB163341BSD} with File ID: BN034053.D met criteria except for 4,6-Dinitro-2-methylphenol[21%], due to difference in results of BS and BSD.			
9.	Internal Standard Area/Retention Time Shift Meet Criteria			✓
	Comments:			
10.	Extraction Holding Time Met		✓	
	If not met, list number of days exceeded for each sample:			
11.	Analysis Holding Time Met		✓	
	If not met, list number of days exceeded for each sample:			
	The Holding Times were met for all analysis.			

ADDITIONAL COMMENTS:

Samples PT-ACIDS-WP, PT-ACIDS-WPDL were diluted due to high concentrations.

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

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <15% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 15% for the Initial Calibration curve for SW-846 analysis.

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **P3845**

	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:** **10/21/2024**

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LAB CHRONICLE

OrderID:	P3845	**OrderDate:**	9/5/2024 2:19:00 PM
Client:	Chemtech Consulting Group	**Project:**	NJ Waste Water PT
Contact:	QA Officer	**Location:**	QA Office,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P3845-03	**PT-BN-WP**	**Water**			**09/03/24**			**09/05/24**
			SVOCMS Group1	8270E		09/12/24	09/16/24	
P3845-03DL	**PT-BN-WPDL**	**Water**			**09/03/24**			**09/05/24**
			SVOCMS Group1	8270E		09/12/24	09/16/24	
P3845-05	**PT-BN-WP**	**Water**			**09/03/24**			**09/05/24**
			SVOCMS Group3	8270-Modified		09/12/24	09/19/24	
P3845-05DL	**PT-BN-WPDL**	**Water**			**09/03/24**			**09/05/24**
			SVOCMS Group3	8270-Modified		09/12/24	09/19/24	
P3845-06	**PT-ACIDS-WP**	**Water**			**09/03/24**			**09/05/24**
			SVOCMS Group2	8270E		09/12/24	09/16/24	
P3845-06DL	**PT-ACIDS-WPDL**	**Water**			**09/03/24**			**09/05/24**
			SVOCMS Group2	8270E		09/12/24	09/16/24	
P3845-08	**PT-ACIDS-WP**	**Water**			**09/03/24**			**09/05/24**
			SVOCMS Group4	8270-Modified		09/12/24	09/18/24	
P3845-08DL	**PT-ACIDS-WPDL**	**Water**			**09/03/24**			**09/05/24**
			SVOCMS Group4	8270-Modified		09/12/24	09/18/24	
P3845-08DL2	**PT-ACIDS-WPDL2**	**Water**			**09/03/24**			**09/05/24**
			SVOCMS Group4	8270-Modified		09/12/24	09/19/24	

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Hit Summary Sheet
SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID : PT-ACIDS-WP								
P3845-08	PT-ACIDS-WP	WATER	4,6-Dinitro-2-methylphenol	270.000	E	0.14	0.2	ug/L
P3845-08	PT-ACIDS-WP	WATER	Pentachlorophenol	95.400	E	0.09	0.2	ug/L
			Total Svoc :	**365.40**				
			Total Concentration:	**365.40**				
Client ID : PT-ACIDS-WPDL								
P3845-08DL	PT-ACIDS-WPDL	WATER	4,6-Dinitro-2-methylphenol	220.000	ED	0.7	1	ug/L
P3845-08DL	PT-ACIDS-WPDL	WATER	Pentachlorophenol	77.500	ED	0.45	1	ug/L
			Total Svoc :	**297.50**				
			Total Concentration:	**297.50**				
Client ID : PT-ACIDS-WPDL2								
P3845-08DL2	PT-ACIDS-WPDL2	WATER	4,6-Dinitro-2-methylphenol	130.000	D	7	10	ug/L
P3845-08DL2	PT-ACIDS-WPDL2	WATER	Pentachlorophenol	49.500	D	4.5	10	ug/L
			Total Svoc :	**179.50**				
			Total Concentration:	**179.50**				

QC
SUMMARY

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Surrogate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: 8270-Modified

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
P3845-08	PT-ACIDS-WP	2-Fluorophenol	0.4	148	37095	*	10	100
		Phenol-d6	0.4	173	43236	*	10	100
		2,4,6-Tribromophenol	0.4	233	58327	*	10	131
P3845-08DL	PT-ACIDS-WPDL	2-Fluorophenol	0.4	161	40146	*	10	100
		Phenol-d6	0.4	180	45042	*	10	100
		2,4,6-Tribromophenol	0.4	216	54117	*	10	131
P3845-08DL2	PT-ACIDS-WPDL2	2-Fluorophenol	0.4	146	36513	*	10	100
		Phenol-d6	0.4	154	38537	*	10	100
		2,4,6-Tribromophenol	0.4	168	42050	*	10	131
PB163341BL	PB163341BL	2-Fluorophenol	0.4	0.33	83		10	100
		Phenol-d6	0.4	0.26	65		10	100
		2,4,6-Tribromophenol	0.4	0.12	30		10	131
PB163341BS	PB163341BS	2-Fluorophenol	0.4	0.41	102	*	10	100
		Phenol-d6	0.4	0.40	101	*	10	100
		2,4,6-Tribromophenol	0.4	0.38	95		10	131
PB163341BSD	PB163341BSD	2-Fluorophenol	0.4	0.33	83		10	100
		Phenol-d6	0.4	0.32	79		10	100
		2,4,6-Tribromophenol	0.4	0.34	86		10	131

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: 8270-Modified **DataFile:** BN034052.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB163341BS	4,6-Dinitro-2-methylphenol	0.4	0.43	ug/L	108				20	150	
	Pentachlorophenol	0.8	0.31	ug/L	39				10	137	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: P3845

Client: Chemtech Consulting Group

Analytical Method: 8270-Modified **DataFile:** BN034053.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB163341BSD	4,6-Dinitro-2-methylphenol	0.4	0.35	ug/L	88	21		*	20	150	20
	Pentachlorophenol	0.8	0.28	ug/L	35	10			10	137	20

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB163341BL

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

Lab File ID: BN034047.D Lab Sample ID: PB163341BL

Instrument ID: BNA_N Date Extracted: 09/12/2024

Matrix: (soil/water) Water Date Analyzed: 09/19/2024

Level: (low/med) LOW Time Analyzed: 10:09

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB163341BS	PB163341BS	BN034052.D	09/19/2024
PB163341BSD	PB163341BSD	BN034053.D	09/19/2024
PT-ACIDS-WP	P3845-08	BN034042.D	09/18/2024

COMMENTS:

Alliance TECHNICAL GROUP
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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM SAS No.: P3845 SDG NO.: P3845

Lab File ID: BN034032.D DFTPP Injection Date: 09/18/2024

Instrument ID: BNA_N DFTPP Injection Time: 08:34

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	44.2
68	Less than 2.0% of mass 69	0.8 (1.7) 1
69	Mass 69 relative abundance	43.7
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	52.6
197	Less than 2.0% of mass 198	0.3
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	7
275	10.0 - 60.0% of mass 198	26.8
365	Greater than 1% of mass 198	3.5
441	Present, but less than mass 443	9.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	12.1 (18.7) 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
SSTDICC0.1	SSTDICC0.1	BN034033.D	09/18/2024	11:53
SSTDICC0.2	SSTDICC0.2	BN034034.D	09/18/2024	12:29
SSTDICCC0.4	SSTDICCC0.4	BN034035.D	09/18/2024	13:05
SSTDICC0.8	SSTDICC0.8	BN034036.D	09/18/2024	13:41
SSTDICC1.6	SSTDICC1.6	BN034037.D	09/18/2024	14:17
SSTDICC3.2	SSTDICC3.2	BN034038.D	09/18/2024	14:54
SSTDICC5.0	SSTDICC5.0	BN034039.D	09/18/2024	15:30
PT-ACIDS-WP	P3845-08	BN034042.D	09/18/2024	19:13
PT-ACIDS-WPDL	P3845-08DL	BN034043.D	09/18/2024	19:49

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECH Contract: CHEM02

Lab Code: CHEM SAS No.: P3845 SDG NO.: P3845

Lab File ID: BN034045.D DFTPP Injection Date: 09/19/2024

Instrument ID: BNA_N DFTPP Injection Time: 08:54

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	38.1
68	Less than 2.0% of mass 69	0.6 (1.6) 1
69	Mass 69 relative abundance	39.2
70	Less than 2.0% of mass 69	0.2 (0.5) 1
127	10.0 - 80.0% of mass 198	48.9
197	Less than 2.0% of mass 198	0.5
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.9
275	10.0 - 60.0% of mass 198	27.4
365	Greater than 1% of mass 198	3.9
441	Present, but less than mass 443	11.9
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.7 (19.2) 2

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

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC0.4	SSTDCCC0.4	BN034046.D	09/19/2024	09:33
PB163341BL	PB163341BL	BN034047.D	09/19/2024	10:09
PT-ACIDS-WPDL2	P3845-08DL2	BN034048.D	09/19/2024	11:22
PB163341BS	PB163341BS	BN034052.D	09/19/2024	16:27
PB163341BSD	PB163341BSD	BN034053.D	09/19/2024	17:03

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 09/18/2024

Lab File ID: BN034035.D Time Analyzed: 13:05

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	6856	7.437	19411	10.20	11055	14.08
	UPPER LIMIT	13712	7.937	38822	10.697	22110	14.582
	LOWER LIMIT	3428	6.937	9705.5	9.697	5527.5	13.582
	EPA SAMPLE NO.						
01	PT-ACIDS-WP	7056	7.44	21248	10.19	11207	14.08
02	PT-ACIDS-WPDL	7922	7.44	22980	10.19	11429	14.08

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.

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG NO.: P3845

EPA Sample No.: SSTDICCC0.4 Date Analyzed: 09/18/2024

Lab File ID: BN034035.D Time Analyzed: 13:05

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	24256	16.842	18497	21.059	19466	23.186
	UPPER LIMIT	48512	17.342	36994	21.559	38932	23.686
	LOWER LIMIT	12128	16.342	9248.5	20.559	9733	22.686
	EPA SAMPLE NO.						
01	PT-ACIDS-WP	24877	16.84	16205	21.06	15627	23.19
02	PT-ACIDS-WPDL	23143	16.84	13266	21.06	12271	23.19

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.: P3845 SAS No.: P3845 SDG NO.: P3845

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 09/19/2024

Lab File ID: BN034046.D Time Analyzed: 09:33

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

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	7320	7.438	21524	10.19	11978	14.08
	UPPER LIMIT	14640	7.938	43048	10.691	23956	14.583
	LOWER LIMIT	3660	6.938	10762	9.691	5989	13.583
	EPA SAMPLE NO.						
01	PB163341BS	8638	7.43	24792	10.19	13364	14.08
02	PB163341BSD	6385	7.44	18900	10.19	7692	14.08
03	PT-ACIDS-WPDL2	7953	7.44	22663	10.19	12115	14.08
04	PB163341BL	7708	7.44	19759	10.20	10160	14.08

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.: P3845 SAS No.: P3845 SDG NO.: P3845

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 09/19/2024

Lab File ID: BN034046.D Time Analyzed: 09:33

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

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	26692	16.833	20522	21.062	20864	23.189
	UPPER LIMIT	53384	17.333	41044	21.562	41728	23.689
	LOWER LIMIT	13346	16.333	10261	20.562	10432	22.689
	EPA SAMPLE NO.						
01	PB163341BS	22485	16.83	18706	21.06	24163	23.19
02	PB163341BSD	17049	16.83	13235	21.06	12101	23.19
03	PT-ACIDS-WPDL2	27146	16.83	21019	21.06	22022	23.19
04	PB163341BL	21734	16.85	14035	21.06	11710	23.19

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

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

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

Alliance
TECHNICAL GROUP

SAMPLE DATA

Raw Data: **BN034042.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-ACIDS-WP	SDG No.:	P3845
Lab Sample ID:	P3845-08	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group4
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034042.D	1	09/12/24 12:00	09/18/24 19:13	PB163341

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
534-52-1	4,6-Dinitro-2-methylphenol	270	E	0.14	0.20	ug/L
87-86-5	Pentachlorophenol	95.4	E	0.090	0.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	148	*	10 - 100	37095%	SPK: 0.4
13127-88-3	Phenol-d6	173	*	10 - 100	43236%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	233	*	10 - 131	58327%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7060	7.438			
1146-65-2	Naphthalene-d8	21200	10.191			
15067-26-2	Acenaphthene-d10	11200	14.079			
1517-22-2	Phenanthrene-d10	24900	16.84			
1719-03-5	Chrysene-d12	16200	21.06			
1520-96-3	Perylene-d12	15600	23.189			

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_N\Data\BN091924\
Data File : BN034042.D
Acq On : 18 Sep 2024 19:13
Operator : JU/RC
Sample : P3845-08
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Quant Time: Sep 19 02:17:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

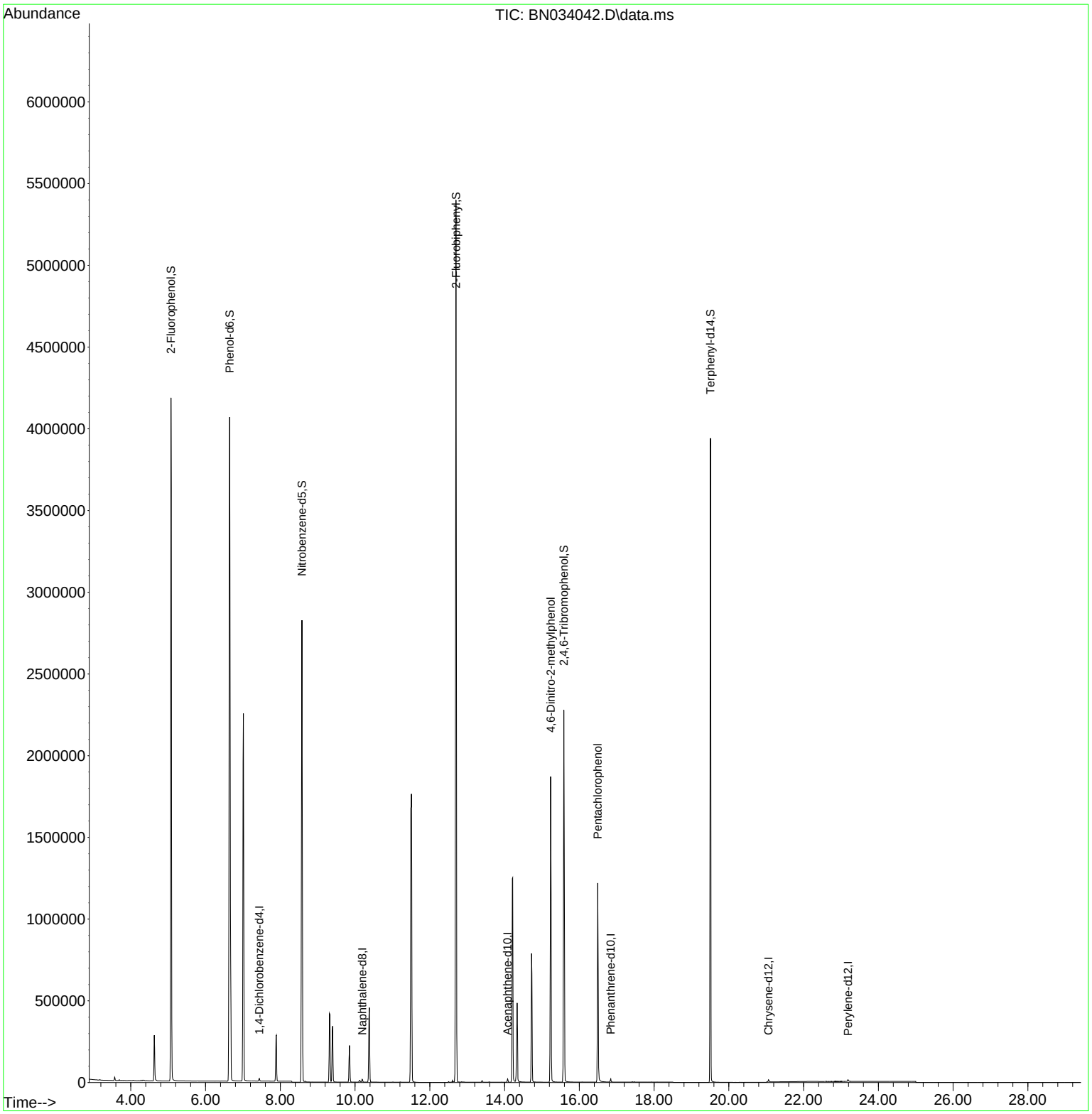
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.438	152	7056	0.400	ng	0.00
7) Naphthalene-d8	10.191	136	21248	0.400	ng	# 0.00
13) Acenaphthene-d10	14.079	164	11207	0.400	ng	0.00
19) Phenanthrene-d10	16.840	188	24877	0.400	ng	# 0.00
29) Chrysene-d12	21.060	240	16205	0.400	ng	# 0.00
35) Perylene-d12	23.189	264	15627	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.076	112	2971330	148.381	ng	0.00
5) Phenol-d6	6.643	99	4028158	172.942	ng	0.00
8) Nitrobenzene-d5	8.579	82	2011619	123.766	ng	0.00
11) 2-Methylnaphthalene-d10	11.788	152	3	0.000	ng	0.00
14) 2,4,6-Tribromophenol	15.586	330	1184563	233.307	ng	0.00
15) 2-Fluorobiphenyl	12.700	172	4483178	98.356	ng	0.00
27) Fluoranthene-d10	18.906	212	290	0.005	ng	0.02
31) Terphenyl-d14	19.510	244	3766888	116.387	ng	0.00
Target Compounds						Qvalue
20) 4,6-Dinitro-2-methylph...	15.234	198	1241571	269.150	ng	# 51
24) Pentachlorophenol	16.493	266	494774	95.427	ng	100

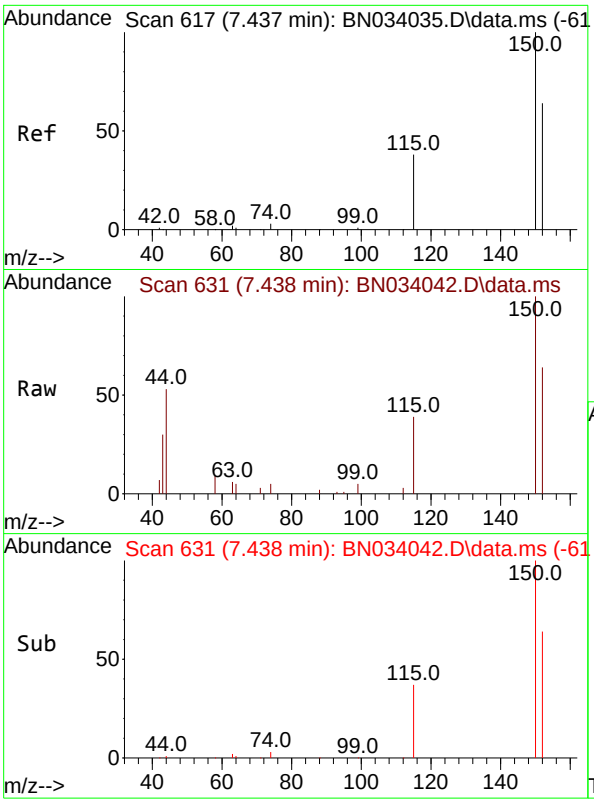
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034042.D
Acq On : 18 Sep 2024 19:13
Operator : JU/RC
Sample : P3845-08
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Quant Time: Sep 19 02:17:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



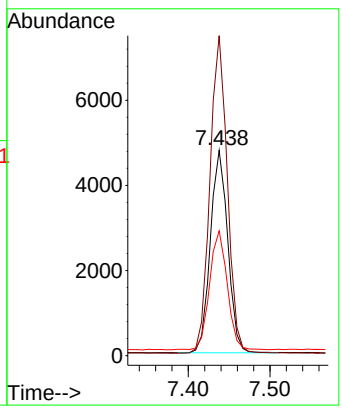


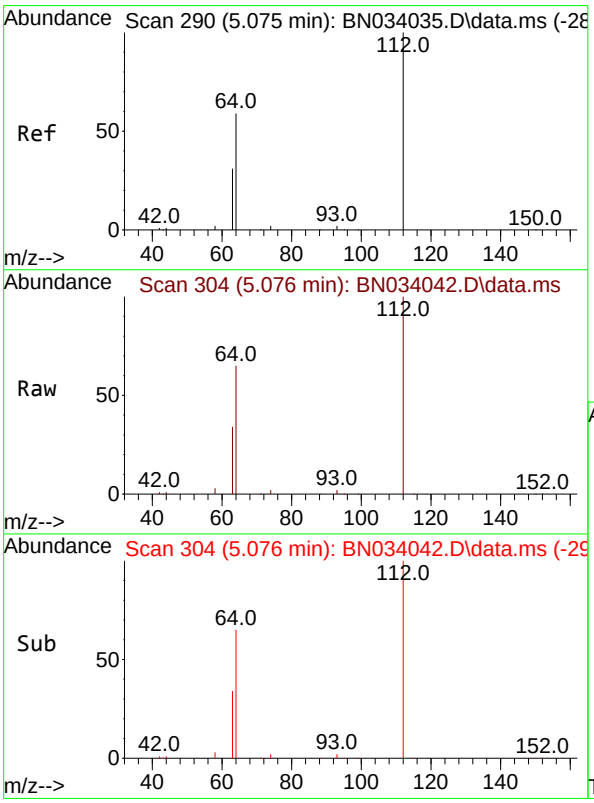
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.438 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion:152 Resp: 7056

Ion	Ratio	Lower	Upper
152	100		
150	155.9	124.6	187.0
115	60.8	50.0	75.0

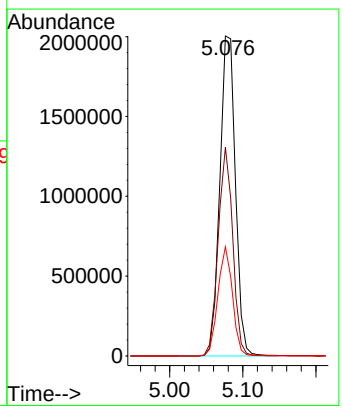


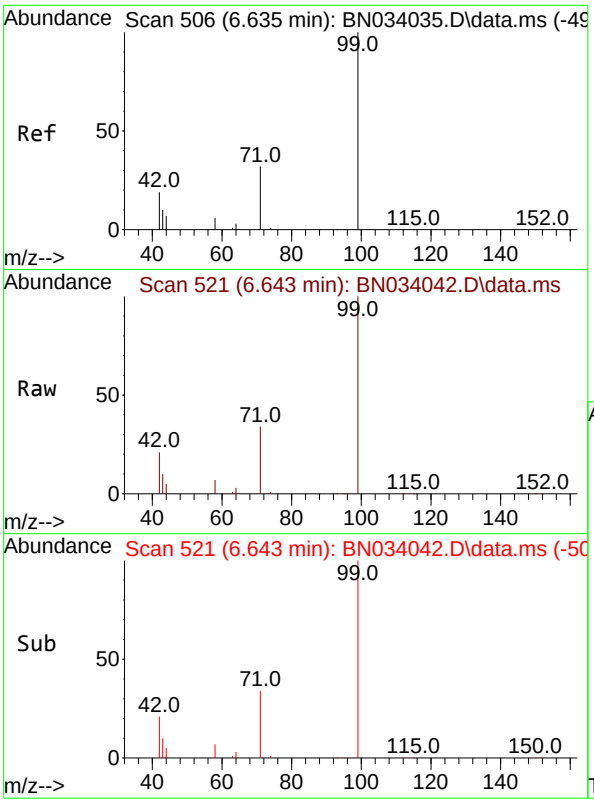


#4
2-Fluorophenol
Concen: 148.381 ng
RT: 5.076 min Scan# 304
Delta R.T. 0.001 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Tgt Ion:112 Resp: 2971330

Ion	Ratio	Lower	Upper
112	100		
64	61.0	48.6	72.8
63	31.8	25.6	38.4



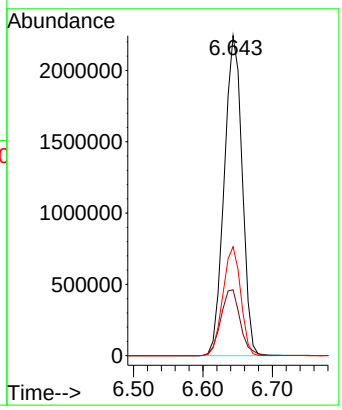


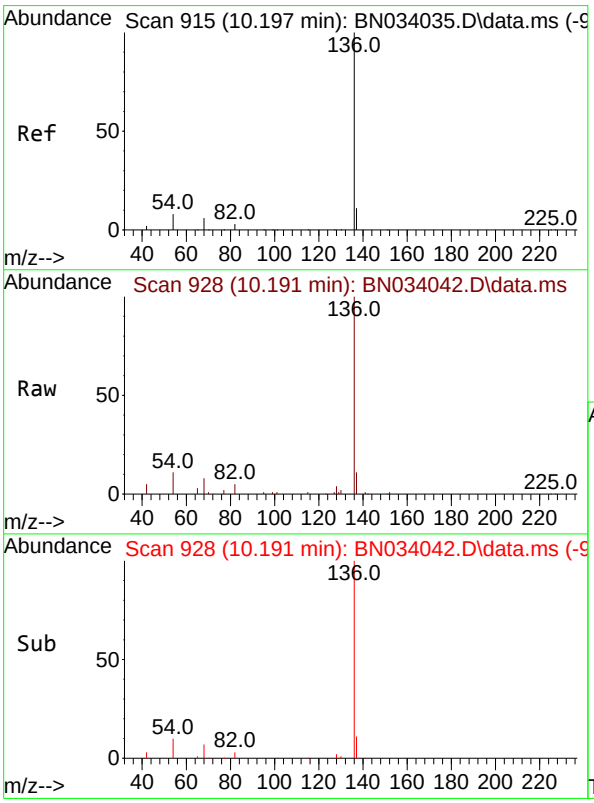
#5
Phenol-d6
Concen: 172.942 ng
RT: 6.643 min Scan# 5
Delta R.T. 0.008 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion: 99 Resp: 4028158

Ion	Ratio	Lower	Upper
99	100		
42	22.3	17.8	26.8
71	33.8	26.2	39.2

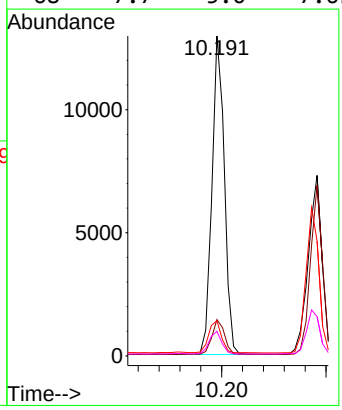


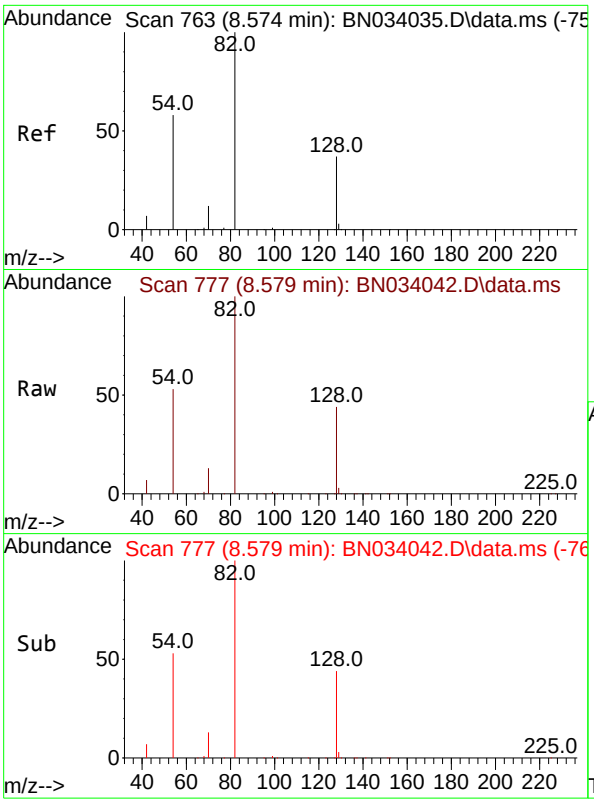


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.191 min Scan# 928
Delta R.T. -0.006 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Tgt Ion:136 Resp: 21248

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	11.0	6.8	10.2#
68	7.7	5.0	7.6#



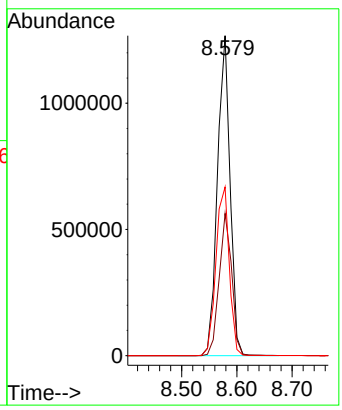


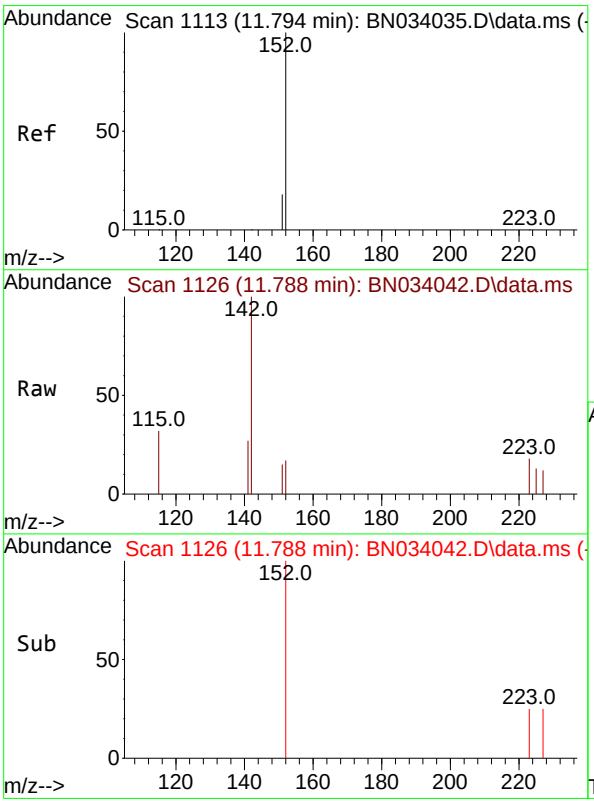
#8
Nitrobenzene-d5
Concen: 123.766 ng
RT: 8.579 min Scan# 7
Delta R.T. 0.005 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion: 82 Resp: 2011619

Ion	Ratio	Lower	Upper
82	100		
128	44.5	31.4	47.2
54	52.7	47.4	71.0

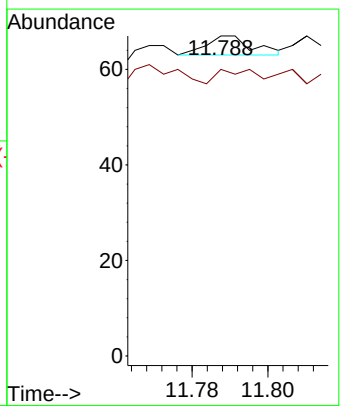


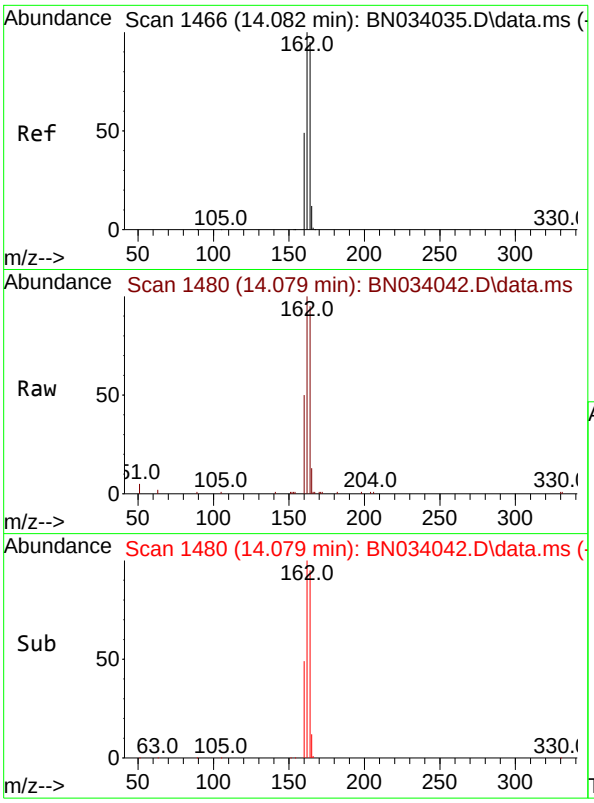


#11
2-Methylnaphthalene-d10
Concen: 0.000 ng
RT: 11.788 min Scan# 1126
Delta R.T. -0.006 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Tgt Ion:152 Resp: 3

Ion	Ratio	Lower	Upper
152	100		
151	66.7	16.8	25.2#



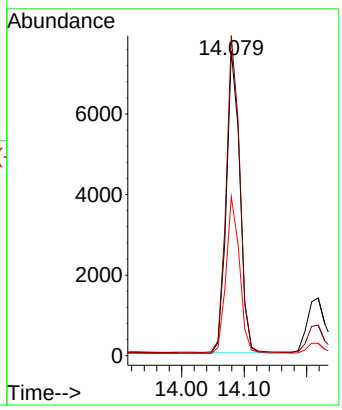


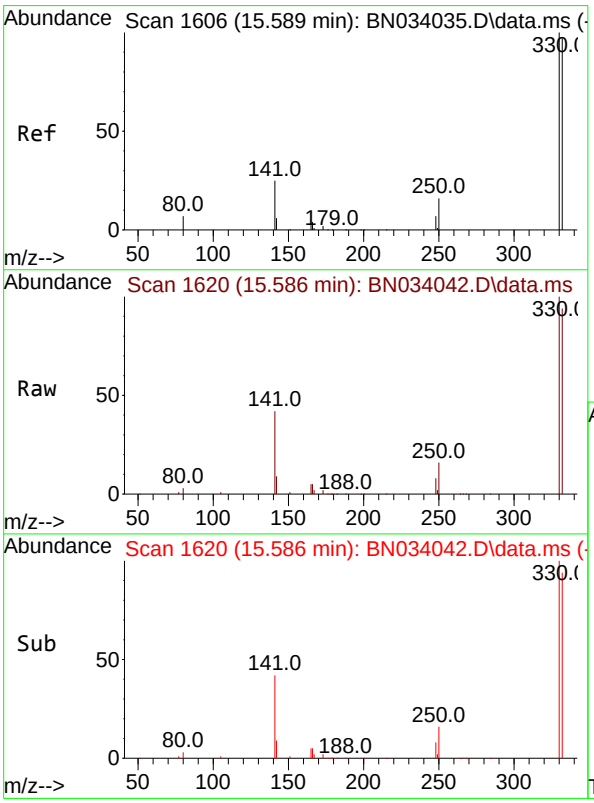
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.079 min Scan# 14
Delta R.T. -0.002 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion:164 Resp: 11207

Ion	Ratio	Lower	Upper
164	100		
162	105.1	84.2	126.2
160	52.2	41.7	62.5

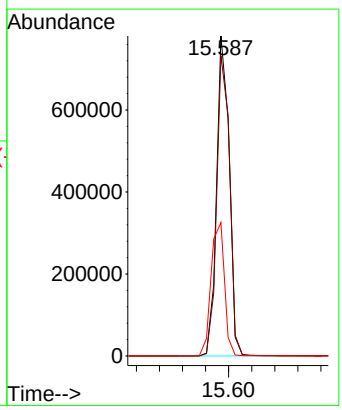


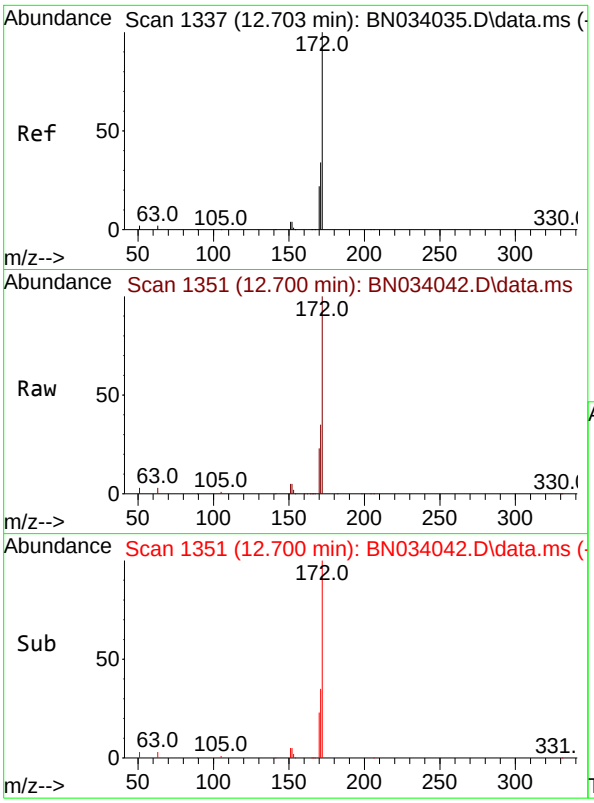


#14
2,4,6-Tribromophenol
Concen: 233.307 ng
RT: 15.586 min Scan# 1620
Delta R.T. -0.002 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Tgt Ion:330 Resp: 1184563

Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.4	116.0
141	44.3	35.9	53.9



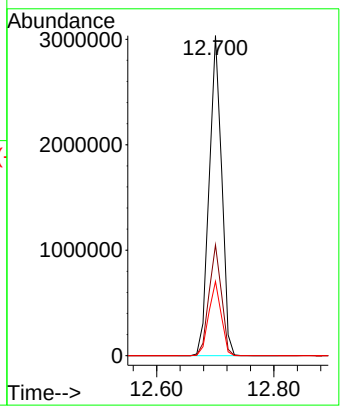


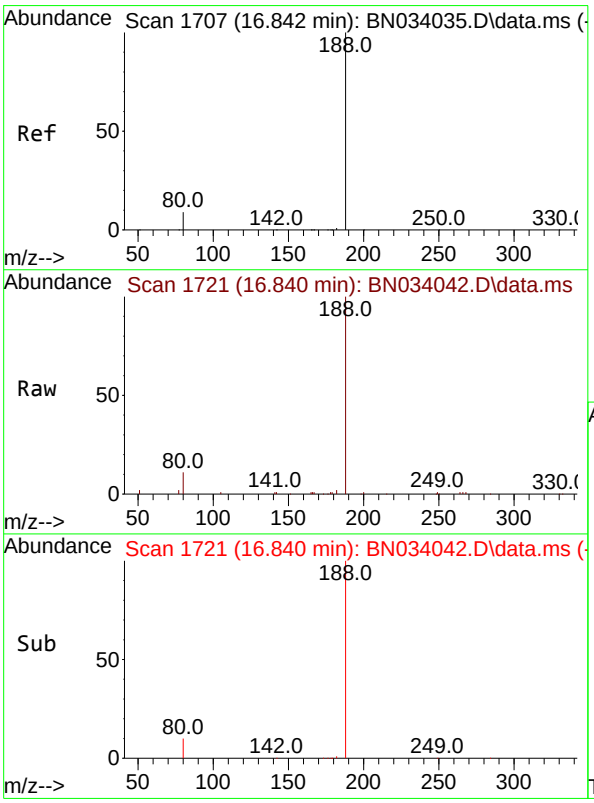
#15
2-Fluorobiphenyl
Concen: 98.356 ng
RT: 12.700 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion:172 Resp: 4483178

Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.3	40.9
170	23.2	18.1	27.1

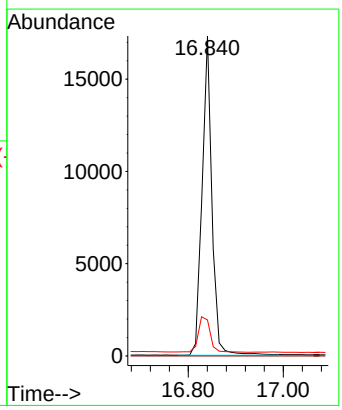


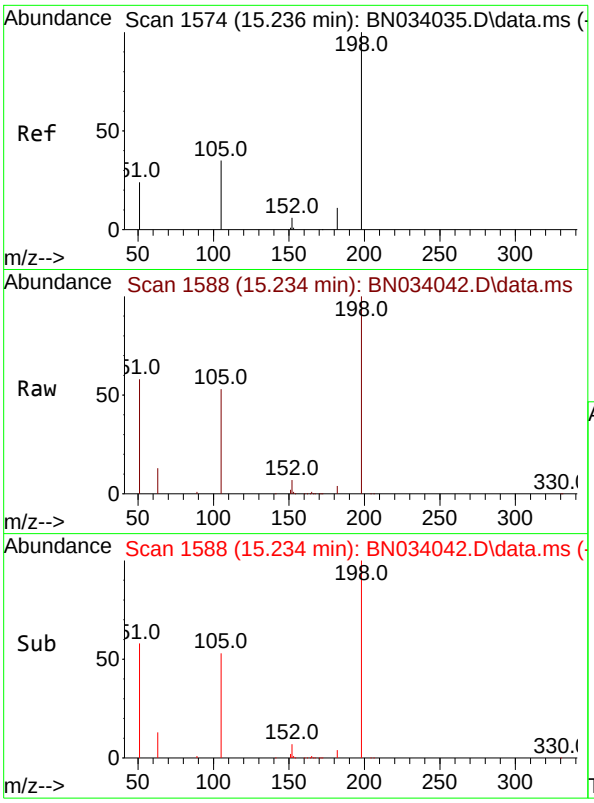


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.840 min Scan# 1721
Delta R.T. -0.002 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Tgt Ion:188 Resp: 24877

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	11.2	7.4	11.0#



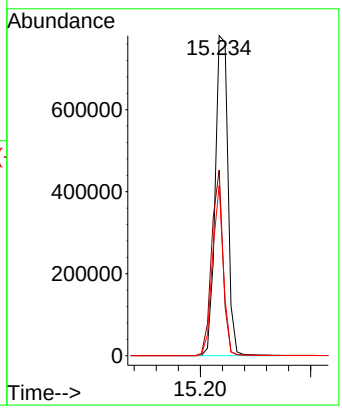


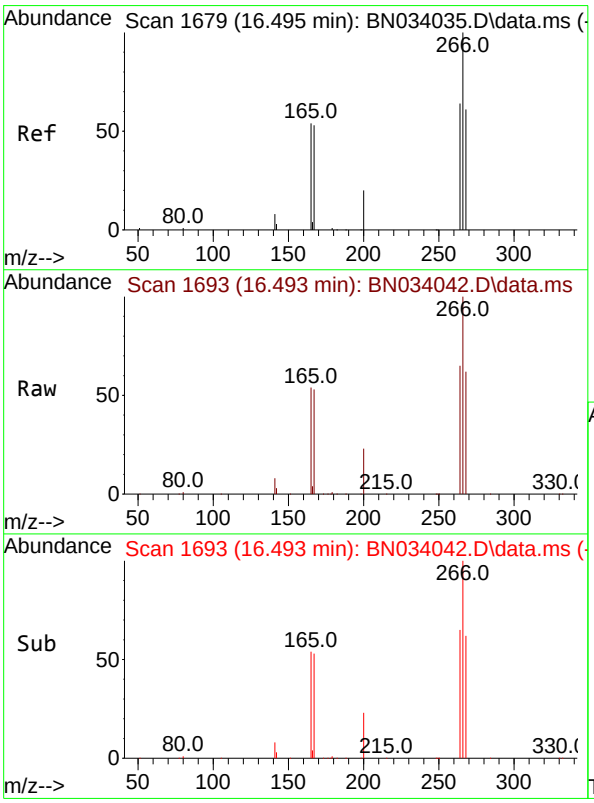
#20
4,6-Dinitro-2-methylphenol
Concen: 269.150 ng
RT: 15.234 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion:198 Resp: 1241571

Ion	Ratio	Lower	Upper
198	100		
51	58.0	106.4	159.6#
105	53.2	38.5	57.7

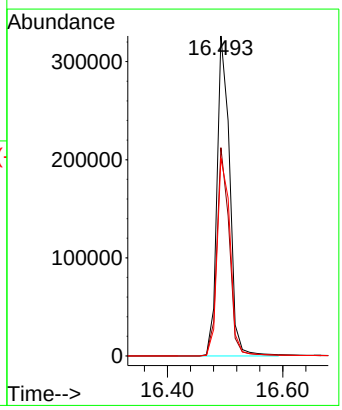


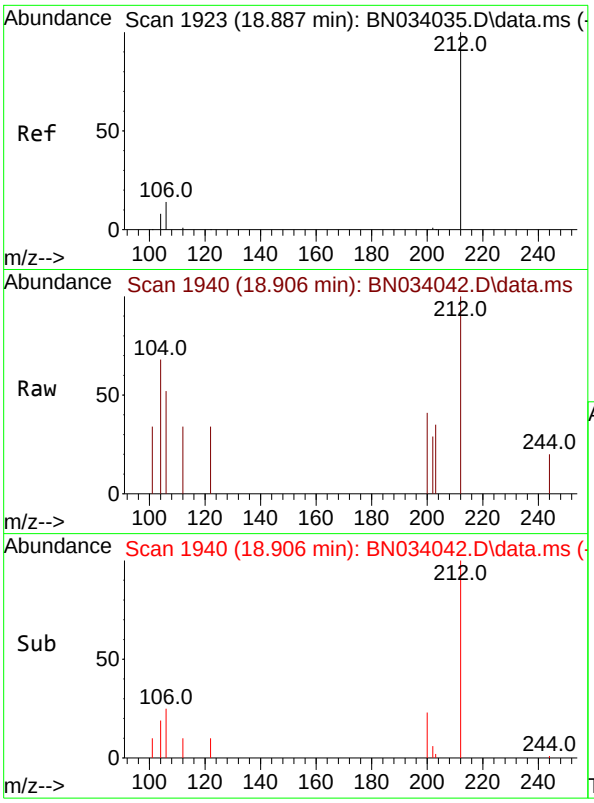


#24
Pentachlorophenol
Concen: 95.427 ng
RT: 16.493 min Scan# 1693
Delta R.T. -0.002 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Tgt Ion:266 Resp: 494774

Ion	Ratio	Lower	Upper
266	100		
264	63.1	50.2	75.2
268	63.8	51.0	76.4



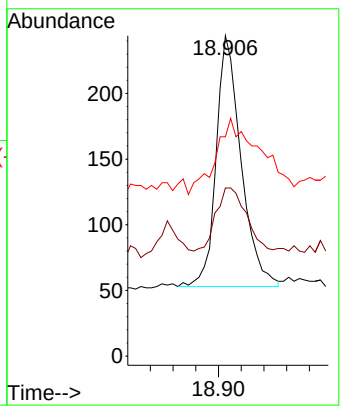


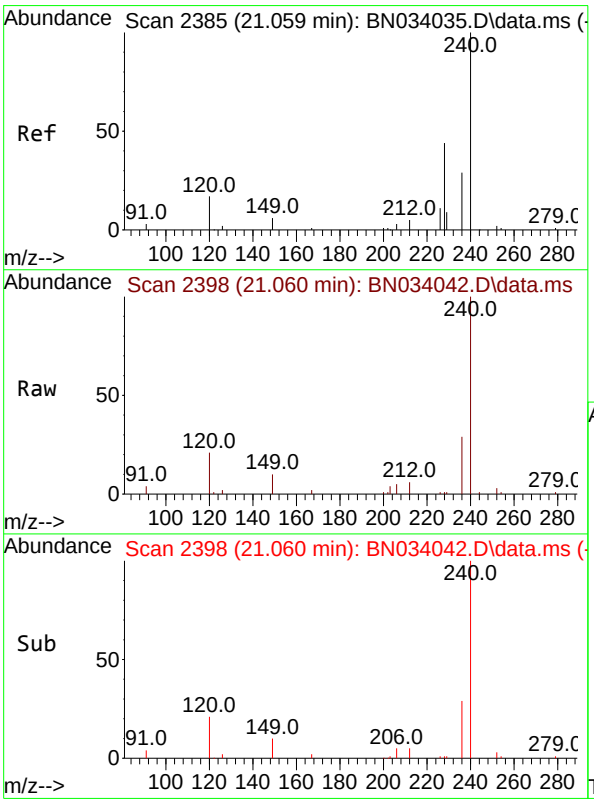
#27
Fluoranthene-d10
Concen: 0.005 ng
RT: 18.906 min Scan# 1
Delta R.T. 0.019 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion:212 Resp: 290

Ion	Ratio	Lower	Upper
212	100		
106	31.7	13.4	20.2#
104	54.5	7.8	11.6#

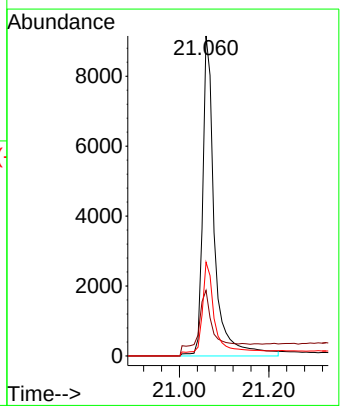


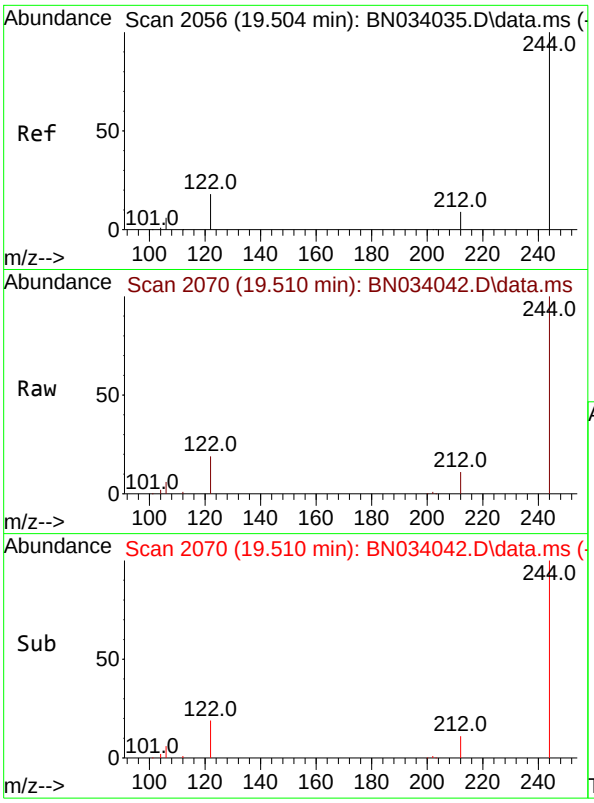


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.060 min Scan# 2398
Delta R.T. 0.001 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Tgt Ion:240 Resp: 16205

Ion	Ratio	Lower	Upper
240	100		
120	20.5	13.5	20.3#
236	29.3	23.4	35.0



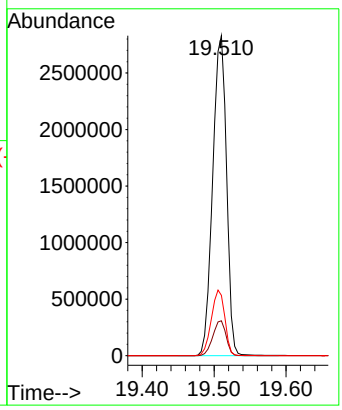


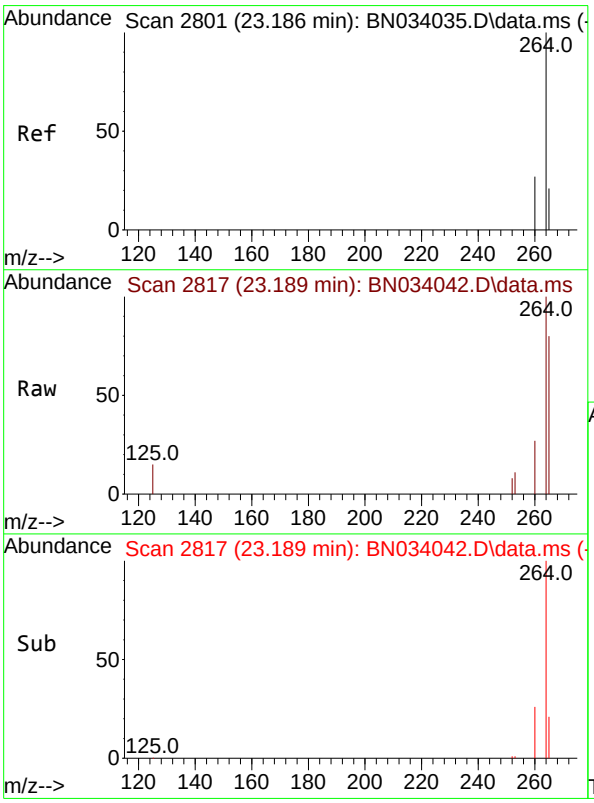
#31
Terphenyl-d14
Concen: 116.387 ng
RT: 19.510 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WP

Tgt Ion:244 Resp: 3766888

Ion	Ratio	Lower	Upper
244	100		
212	10.9	7.8	11.6
122	18.8	14.8	22.2

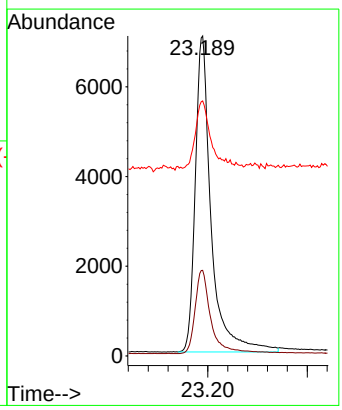




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.189 min Scan# 2817
Delta R.T. 0.004 min
Lab File: BN034042.D
Acq: 18 Sep 2024 19:13

Tgt Ion:264 Resp: 15627

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.7	32.5
265	79.7	52.1	78.1#



Raw Data: **BN034043.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-ACIDS-WPDL	SDG No.:	P3845
Lab Sample ID:	P3845-08DL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group4
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034043.D	5	09/12/24 12:00	09/18/24 19:49	PB163341

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
534-52-1	4,6-Dinitro-2-methylphenol	220	ED	0.70	1.00	ug/L
87-86-5	Pentachlorophenol	77.5	ED	0.45	1.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	161	*	10 - 100	40146%	SPK: 0.4
13127-88-3	Phenol-d6	180	*	10 - 100	45042%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	216	*	10 - 131	54117%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7920	7.438			
1146-65-2	Naphthalene-d8	23000	10.191			
15067-26-2	Acenaphthene-d10	11400	14.079			
1517-22-2	Phenanthrene-d10	23100	16.84			
1719-03-5	Chrysene-d12	13300	21.06			
1520-96-3	Perylene-d12	12300	23.189			

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

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

Sample Results: **BN034043.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034043.D
Acq On : 18 Sep 2024 19:49
Operator : JU/RC
Sample : P3845-08DL 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Quant Time: Sep 19 02:17:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

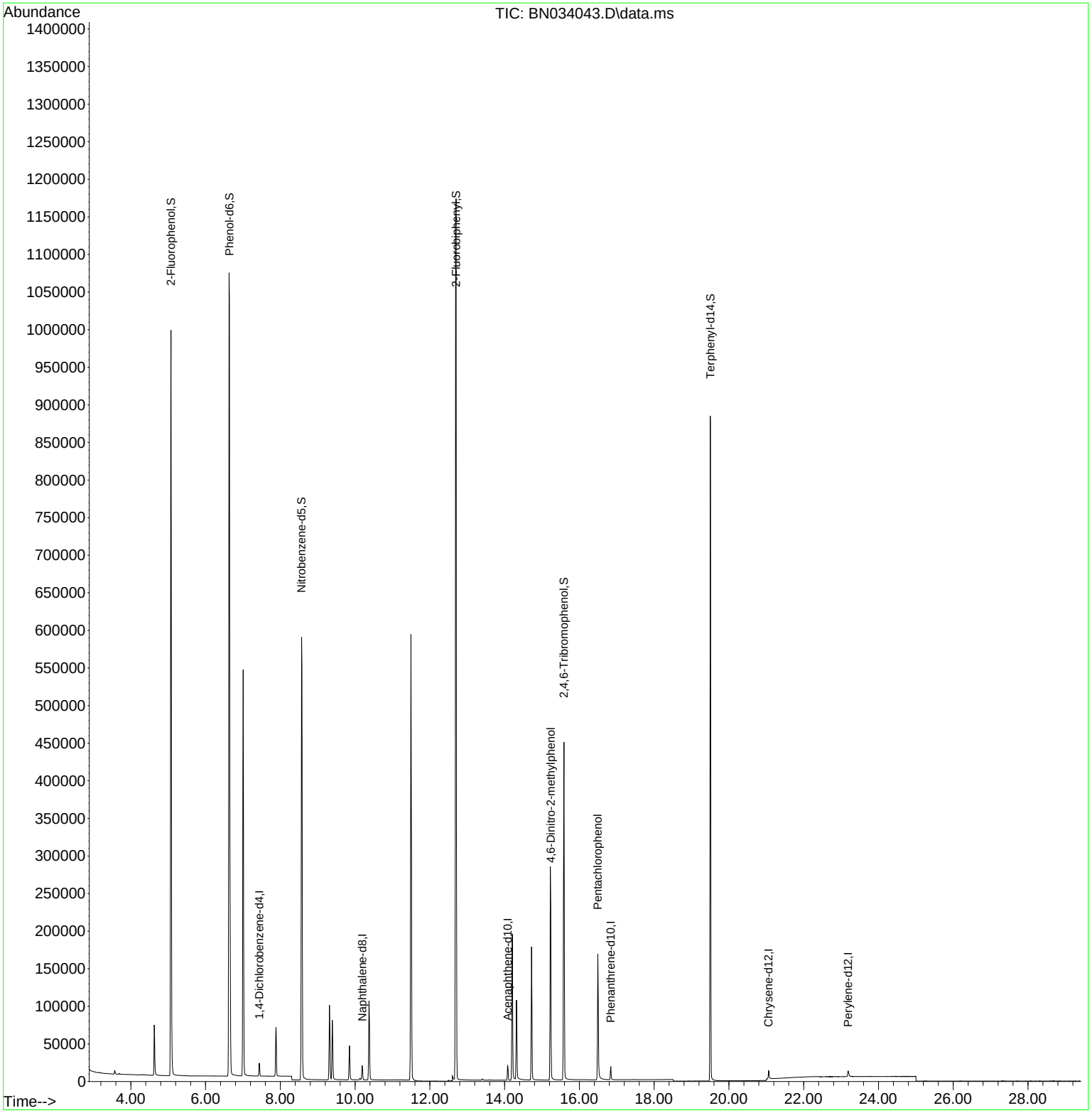
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.438	152	7922	0.400	ng	0.00
7) Naphthalene-d8	10.191	136	22980	0.400	ng	# 0.00
13) Acenaphthene-d10	14.079	164	11429	0.400	ng	0.00
19) Phenanthrene-d10	16.840	188	23143	0.400	ng	0.00
29) Chrysene-d12	21.060	240	13266	0.400	ng	# 0.00
35) Perylene-d12	23.189	264	12271	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.076	112	722073	32.117	ng	0.00
5) Phenol-d6	6.636	99	942308	36.034	ng	0.00
8) Nitrobenzene-d5	8.568	82	459778	26.156	ng	0.00
11) 2-Methylnaphthalene-d10	11.750	152	4	0.000	ng	-0.04
14) 2,4,6-Tribromophenol	15.587	330	224172	43.294	ng	0.00
15) 2-Fluorobiphenyl	12.700	172	1093393	23.522	ng	0.00
27) Fluoranthene-d10	18.915	212	58	0.001	ng	0.03
31) Terphenyl-d14	19.505	244	805433	30.399	ng	0.00
Target Compounds						Qvalue
20) 4,6-Dinitro-2-methylph...	15.234	198	186524	43.580	ng	# 23
24) Pentachlorophenol	16.493	266	74771	15.502	ng	100

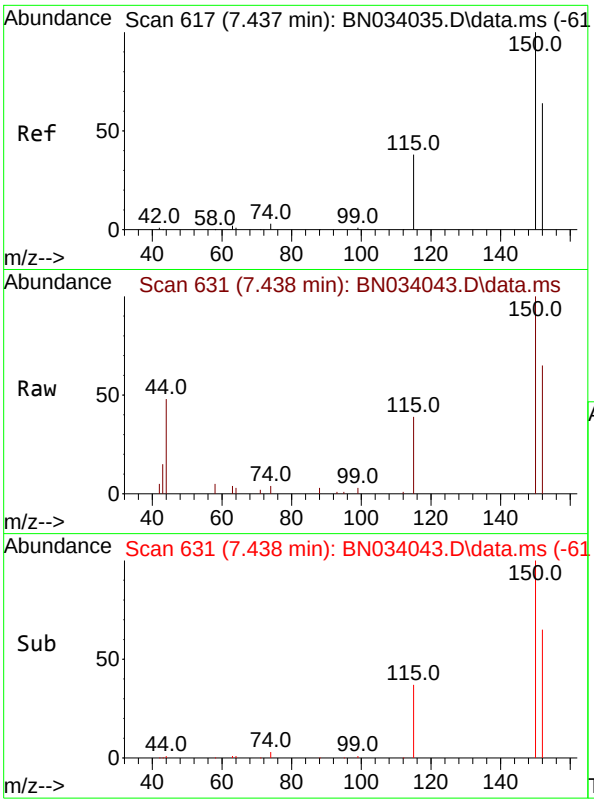
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034043.D
Acq On : 18 Sep 2024 19:49
Operator : JU/RC
Sample : P3845-08DL 5X
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Quant Time: Sep 19 02:17:51 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



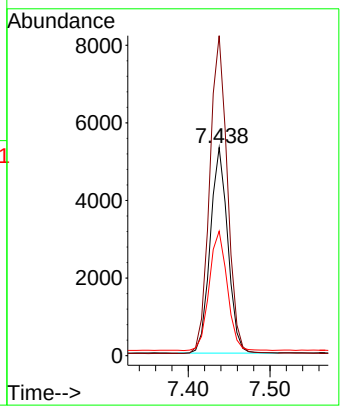


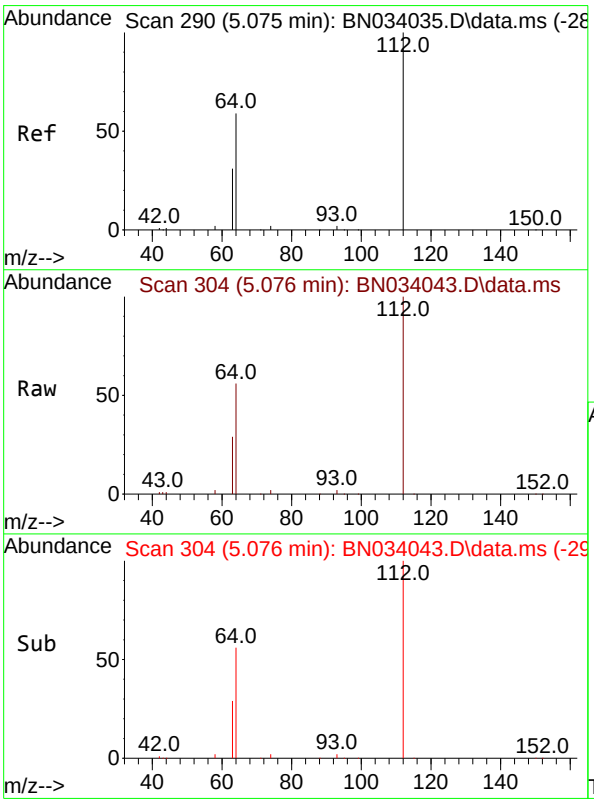
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.438 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion:152 Resp: 7922

Ion	Ratio	Lower	Upper
152	100		
150	153.7	124.6	187.0
115	59.8	50.0	75.0

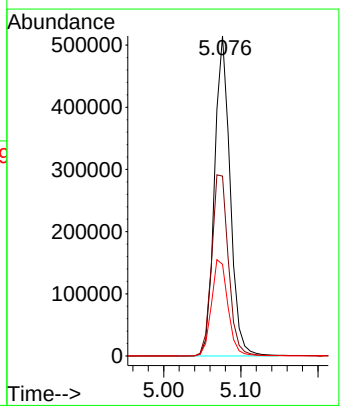


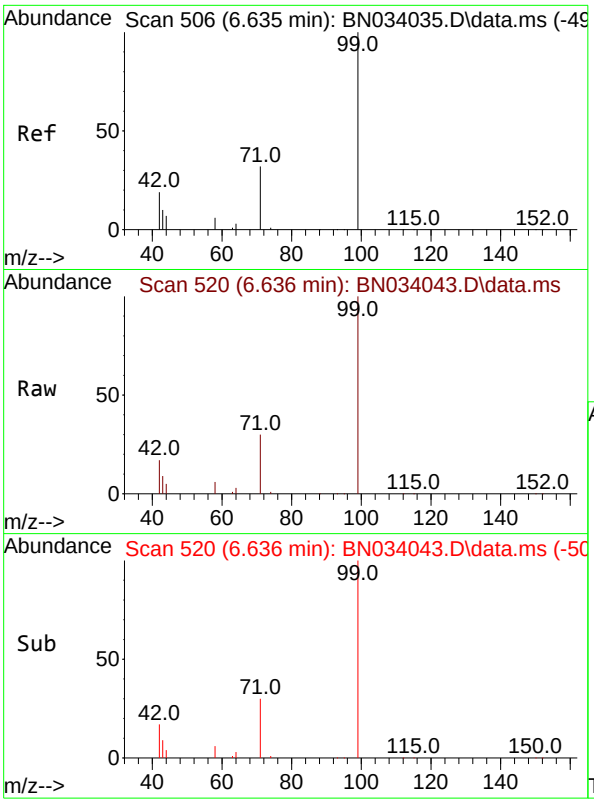


#4
2-Fluorophenol
Concen: 32.117 ng
RT: 5.076 min Scan# 304
Delta R.T. 0.001 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Tgt Ion:112 Resp: 722073

Ion	Ratio	Lower	Upper
112	100		
64	60.7	48.6	72.8
63	31.7	25.6	38.4



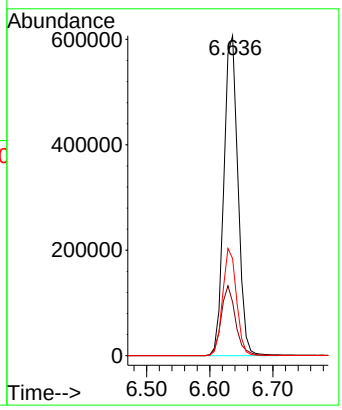


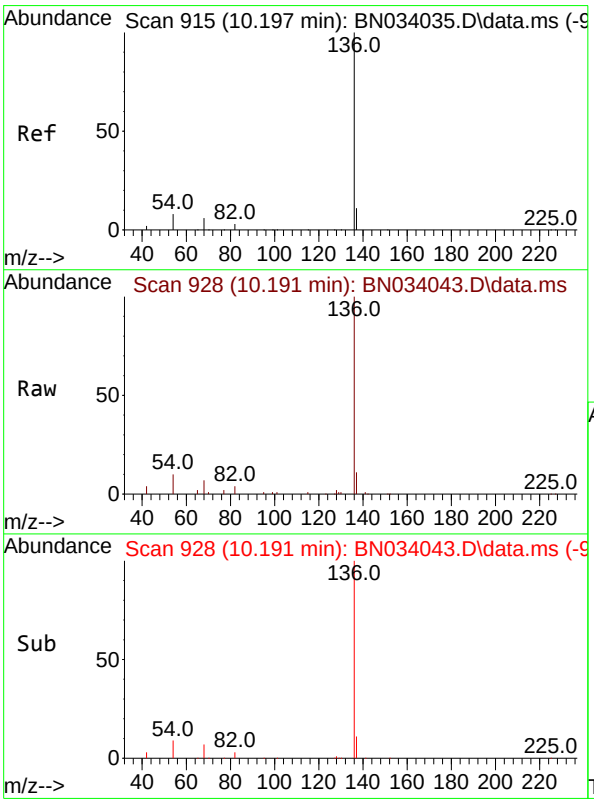
#5
Phenol-d6
Concen: 36.034 ng
RT: 6.636 min Scan# 5
Delta R.T. 0.001 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion: 99 Resp: 942308

Ion	Ratio	Lower	Upper
99	100		
42	22.2	17.8	26.8
71	33.0	26.2	39.2

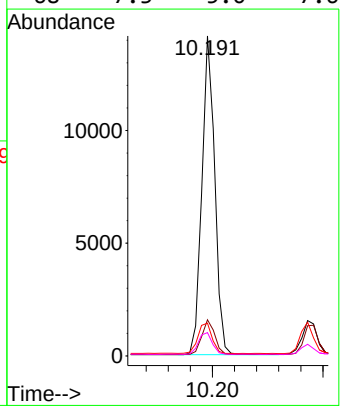


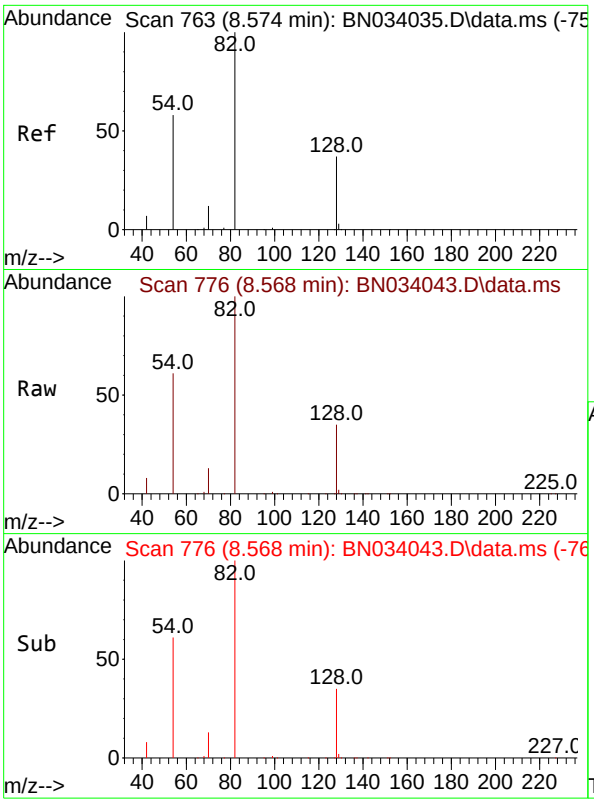


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.191 min Scan# 928
Delta R.T. -0.006 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Tgt Ion:136 Resp: 22980

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	10.2	6.8	10.2#
68	7.3	5.0	7.6



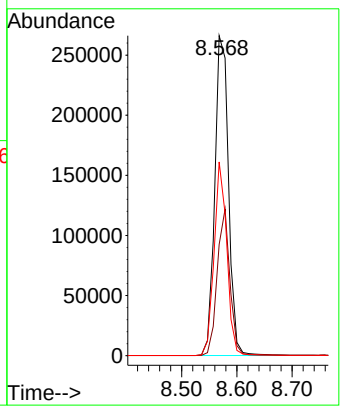


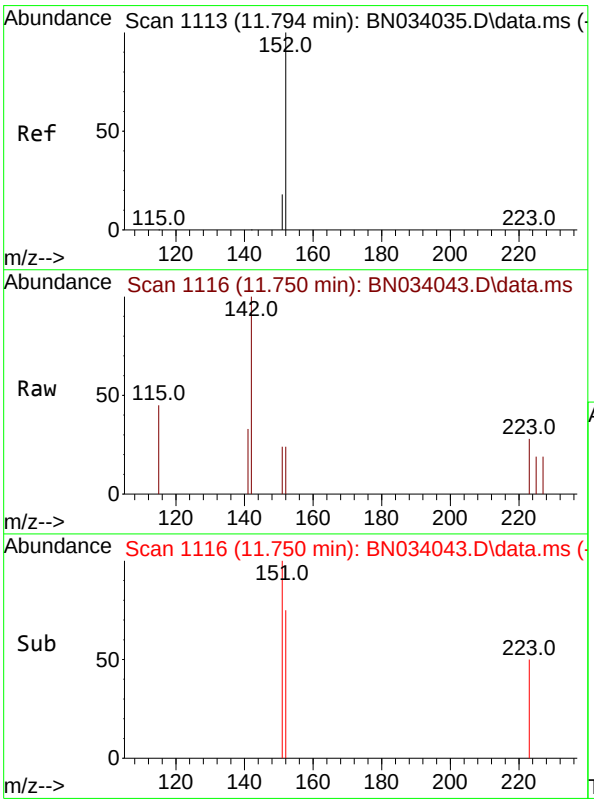
#8
Nitrobenzene-d5
Concen: 26.156 ng
RT: 8.568 min Scan# 7
Delta R.T. -0.006 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion: 82 Resp: 459778

Ion	Ratio	Lower	Upper
82	100		
128	34.8	31.4	47.2
54	60.6	47.4	71.0

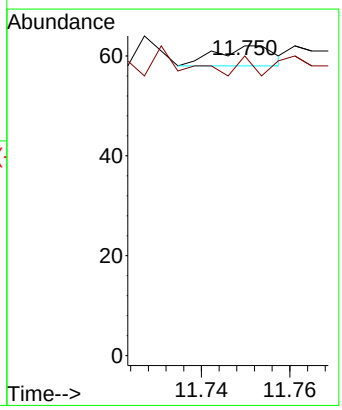


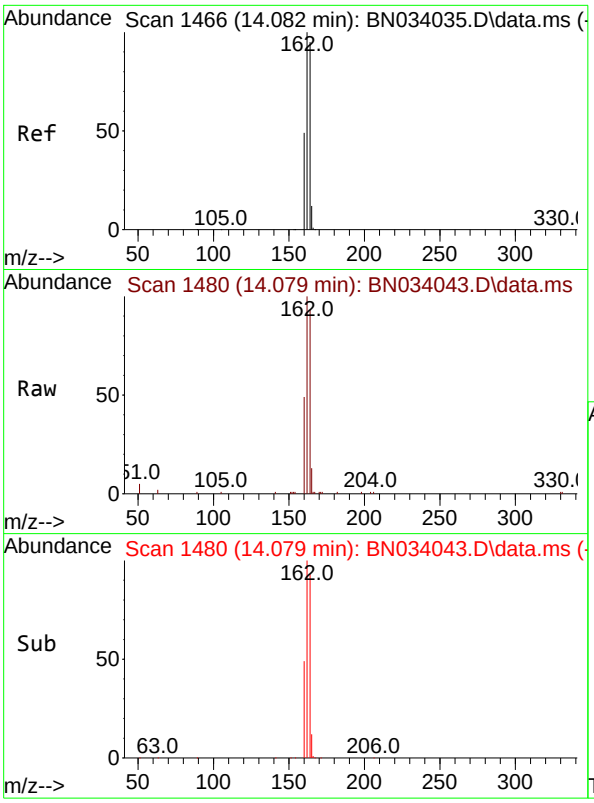


#11
2-Methylnaphthalene-d10
Concen: 0.000 ng
RT: 11.750 min Scan# 1116
Delta R.T. -0.044 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Tgt Ion:152 Resp: 4

Ion	Ratio	Lower	Upper
152	100		
151	25.0	16.8	25.2



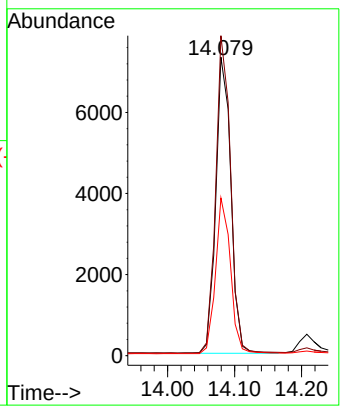


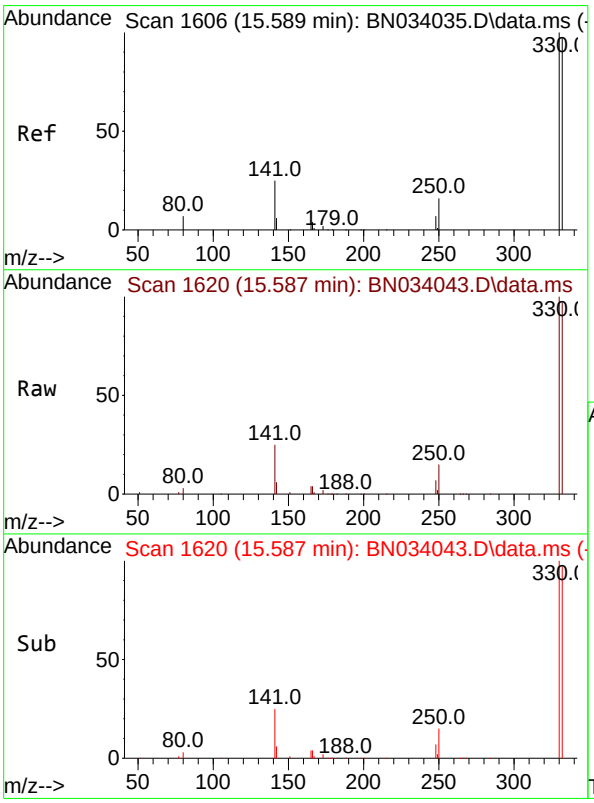
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.079 min Scan# 14
Delta R.T. -0.002 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion:164 Resp: 11429

Ion	Ratio	Lower	Upper
164	100		
162	107.2	84.2	126.2
160	52.9	41.7	62.5

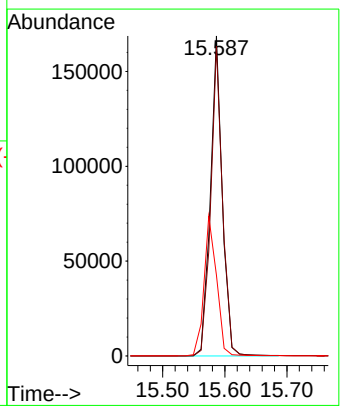


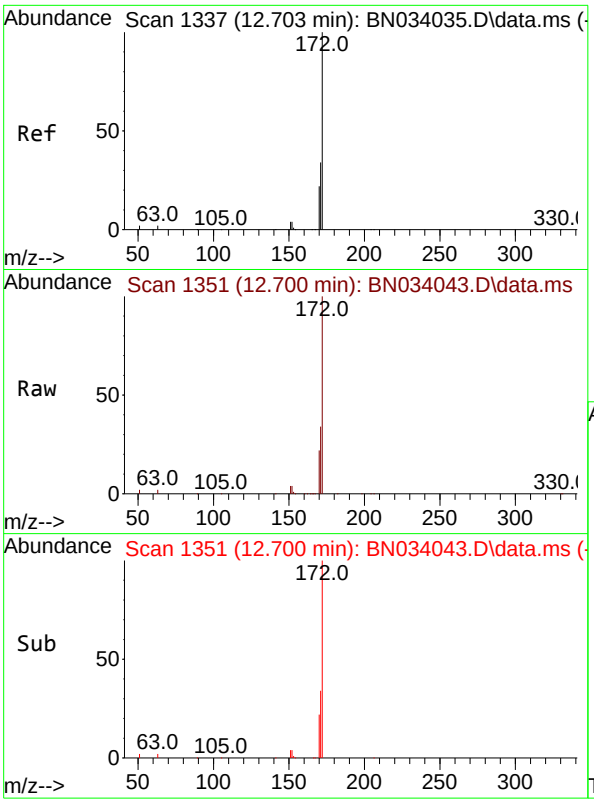


#14
2,4,6-Tribromophenol
Concen: 43.294 ng
RT: 15.587 min Scan# 1620
Delta R.T. -0.002 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Tgt Ion:330 Resp: 224172

Ion	Ratio	Lower	Upper
330	100		
332	96.2	77.4	116.0
141	46.3	35.9	53.9



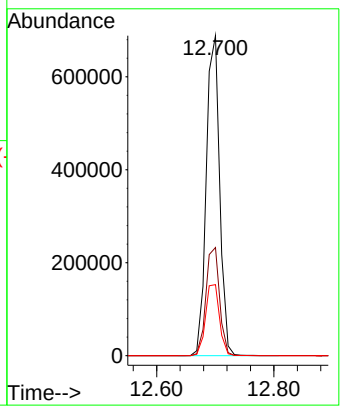


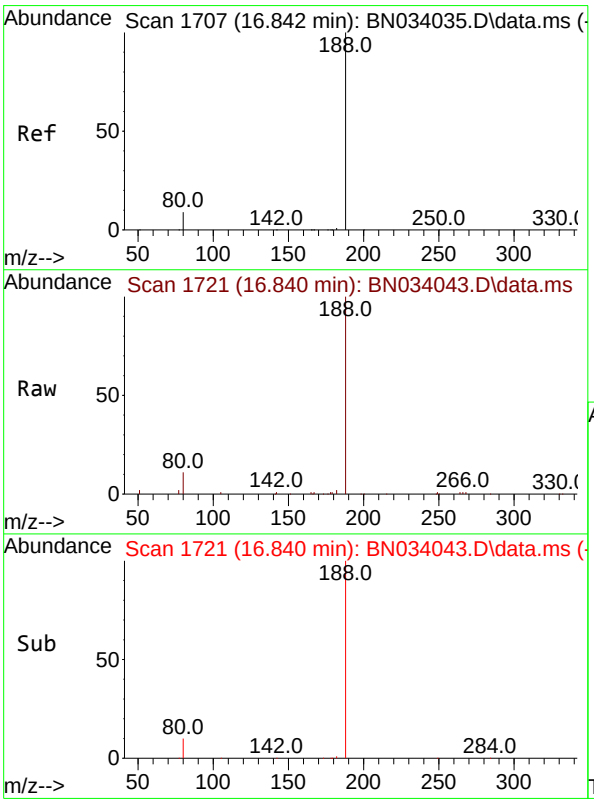
#15
2-Fluorobiphenyl
Concen: 23.522 ng
RT: 12.700 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion:172 Resp: 1093393

Ion	Ratio	Lower	Upper
172	100		
171	33.8	27.3	40.9
170	22.2	18.1	27.1

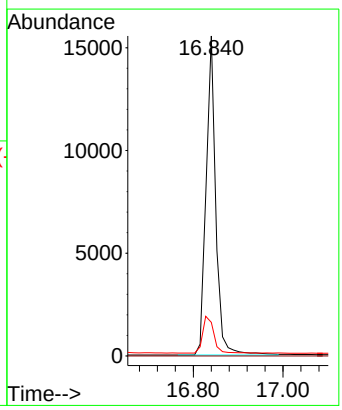


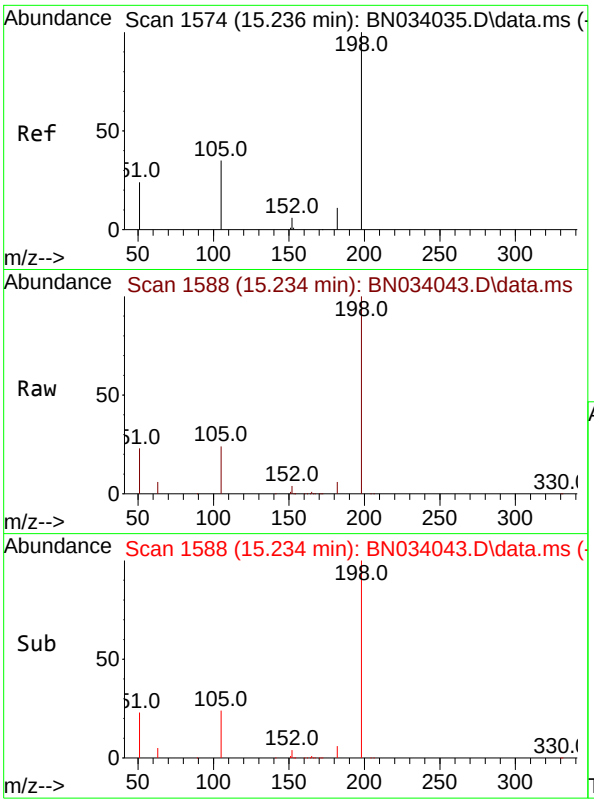


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.840 min Scan# 1721
Delta R.T. -0.002 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Tgt Ion:188 Resp: 23143

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.5	7.4	11.0



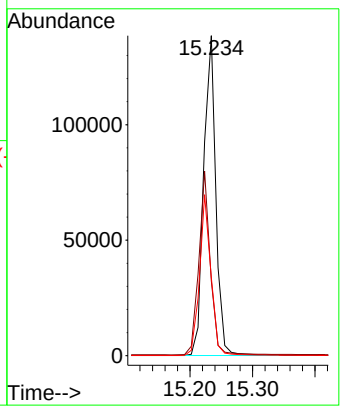


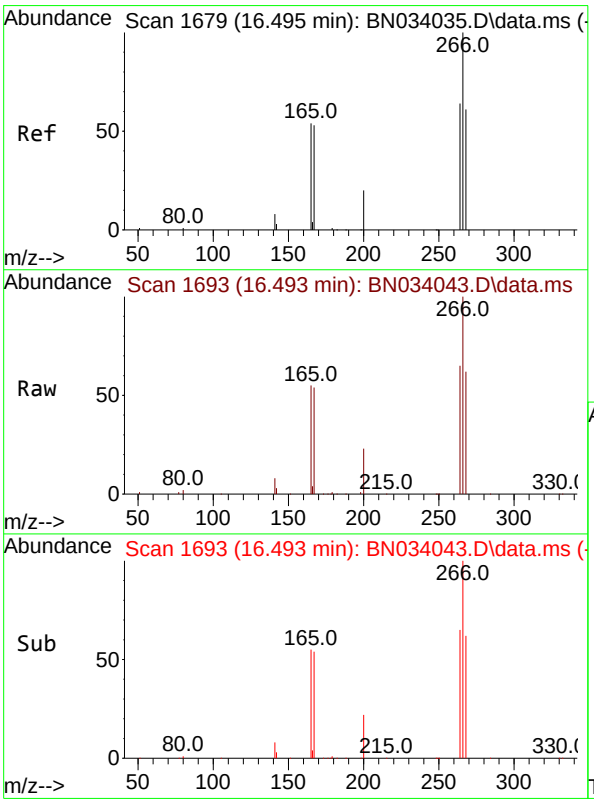
#20
4,6-Dinitro-2-methylphenol
Concen: 43.580 ng
RT: 15.234 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion:198 Resp: 186524

Ion	Ratio	Lower	Upper
198	100		
51	23.4	106.4	159.6#
105	24.5	38.5	57.7#

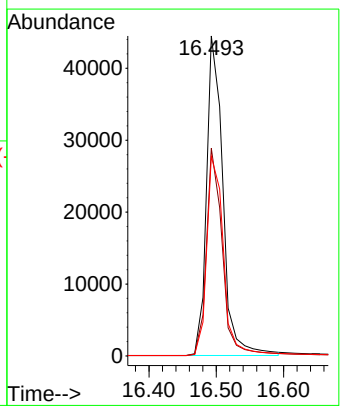


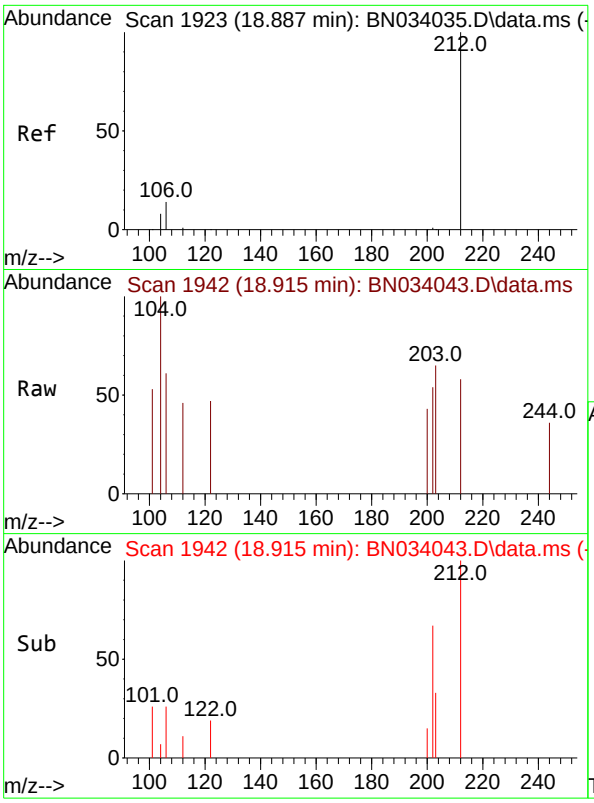


#24
Pentachlorophenol
Concen: 15.502 ng
RT: 16.493 min Scan# 1693
Delta R.T. -0.002 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Tgt Ion:266 Resp: 74771

Ion	Ratio	Lower	Upper
266	100		
264	62.9	50.2	75.2
268	63.9	51.0	76.4



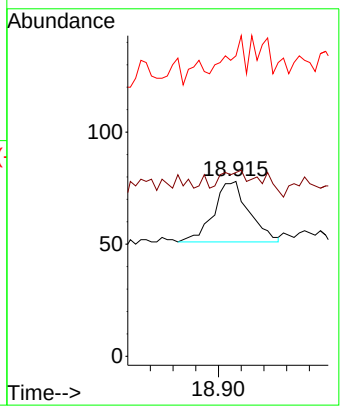


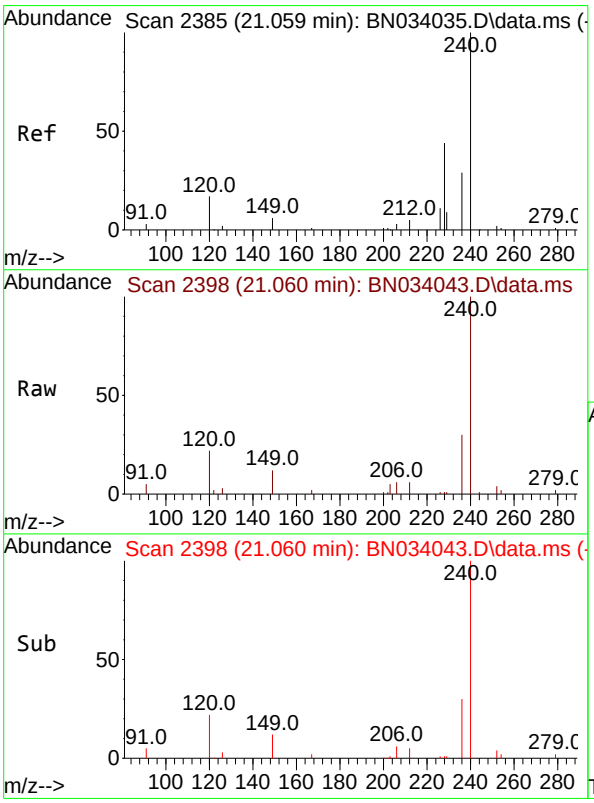
#27
Fluoranthene-d10
Concen: 0.001 ng
RT: 18.915 min Scan# 1
Delta R.T. 0.029 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion:212 Resp: 58

Ion	Ratio	Lower	Upper
212	100		
106	20.7	13.4	20.2#
104	22.4	7.8	11.6#

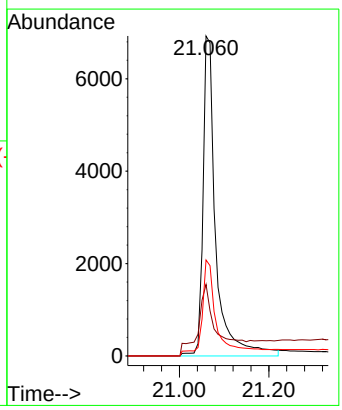


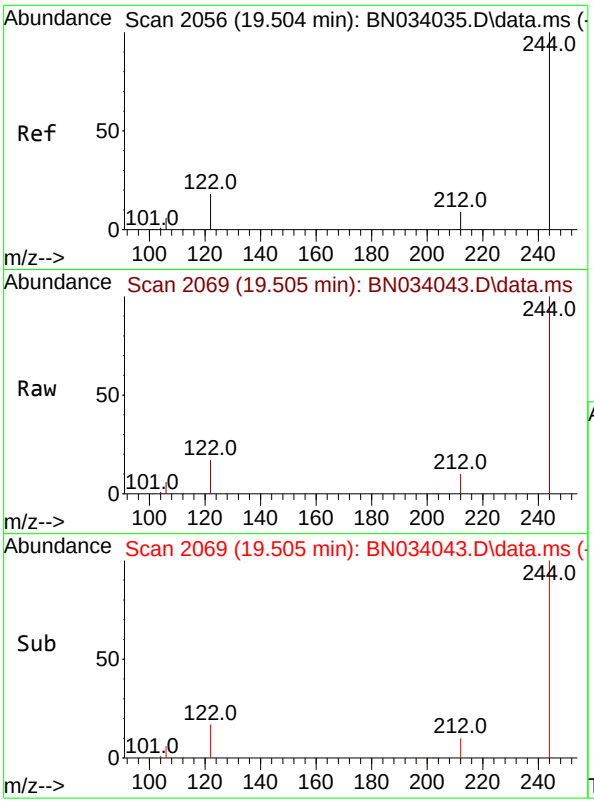


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.060 min Scan# 2398
Delta R.T. 0.001 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Tgt Ion:240 Resp: 13266

Ion	Ratio	Lower	Upper
240	100		
120	22.3	13.5	20.3#
236	30.0	23.4	35.0



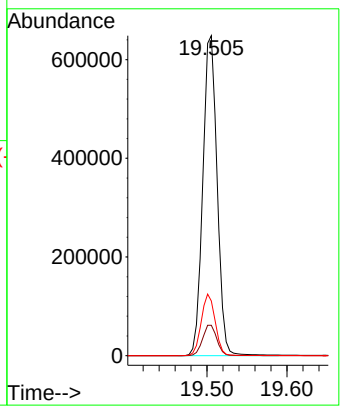


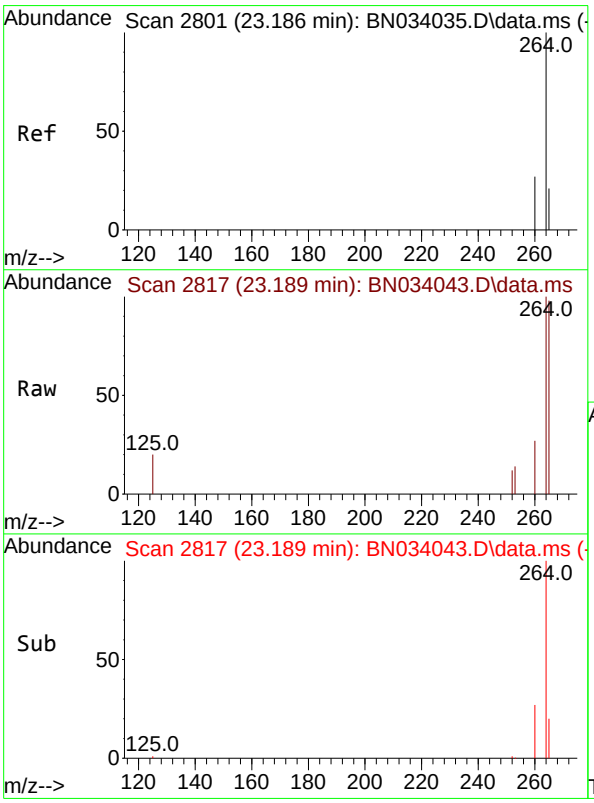
#31
Terphenyl-d14
Concen: 30.399 ng
RT: 19.505 min Scan# 2
Delta R.T. 0.001 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL

Tgt Ion:244 Resp: 805433

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.8	11.6
122	17.1	14.8	22.2

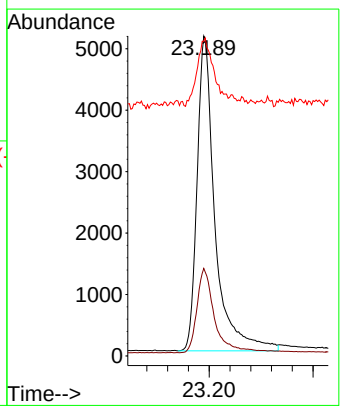




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.189 min Scan# 2817
Delta R.T. 0.004 min
Lab File: BN034043.D
Acq: 18 Sep 2024 19:49

Tgt Ion:264 Resp: 12271

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.7	32.5
265	98.4	52.1	78.1#



Raw Data: **BN034048.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	09/03/24
Project:	NJ Waste Water PT	Date Received:	09/05/24
Client Sample ID:	PT-ACIDS-WPDL2	SDG No.:	P3845
Lab Sample ID:	P3845-08DL2	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group4
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034048.D	50	09/12/24 12:00	09/19/24 11:22	PB163341

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
534-52-1	4,6-Dinitro-2-methylphenol	130	D	7.00	10.0	ug/L
87-86-5	Pentachlorophenol	49.5	D	4.50	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	146	*	10 - 100	36513%	SPK: 0.4
13127-88-3	Phenol-d6	154	*	10 - 100	38537%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	168	*	10 - 131	42050%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7950	7.438			
1146-65-2	Naphthalene-d8	22700	10.191			
15067-26-2	Acenaphthene-d10	12100	14.083			
1517-22-2	Phenanthrene-d10	27100	16.833			
1719-03-5	Chrysene-d12	21000	21.062			
1520-96-3	Perylene-d12	22000	23.192			

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_N\Data\BN091924\
Data File : BN034048.D
Acq On : 19 Sep 2024 11:22
Operator : JU/RC
Sample : P3845-08DL2 50X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL2

Quant Time: Sep 19 11:49:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

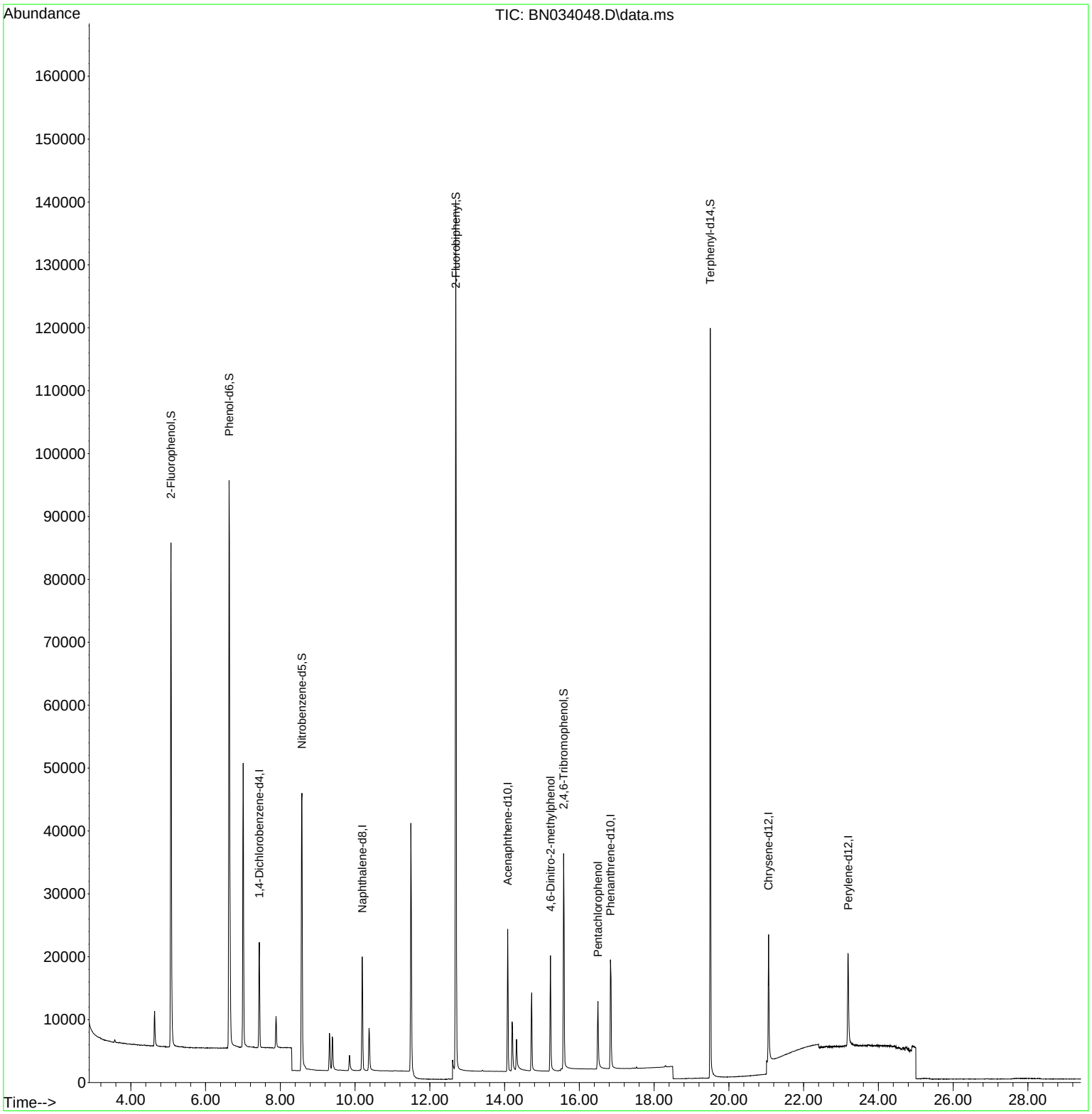
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.438	152	7953	0.400	ng	0.00
7) Naphthalene-d8	10.191	136	22663	0.400	ng	# 0.00
13) Acenaphthene-d10	14.083	164	12115	0.400	ng	0.00
19) Phenanthrene-d10	16.833	188	27146	0.400	ng	# 0.00
29) Chrysene-d12	21.062	240	21019	0.400	ng	0.00
35) Perylene-d12	23.192	264	22022	0.400	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.076	112	65932	2.921	ng	0.00
5) Phenol-d6	6.629	99	80926	3.083	ng	0.00
8) Nitrobenzene-d5	8.579	82	38831	2.240	ng	0.00
11) 2-Methylnaphthalene-d10	11.776	152	5	0.000	ng	-0.02
14) 2,4,6-Tribromophenol	15.580	330	18465	3.364	ng	0.00
15) 2-Fluorobiphenyl	12.693	172	117412	2.383	ng	0.00
27) Fluoranthene-d10	18.890	212	20	0.000	ng	0.00
31) Terphenyl-d14	19.503	244	108123	2.576	ng	0.00
Target Compounds						Qvalue
20) 4,6-Dinitro-2-methylph...	15.227	198	12269	2.574	ng	# 48
24) Pentachlorophenol	16.498	266	5598	0.989	ng	100

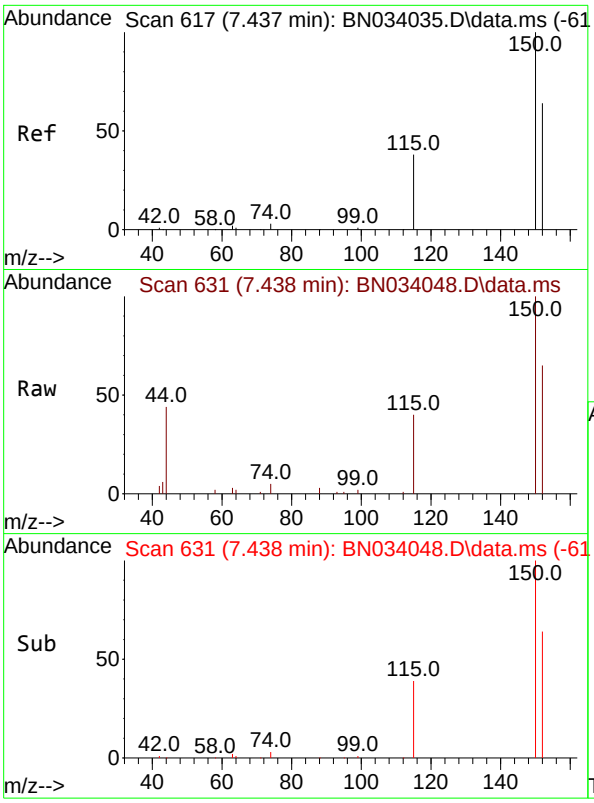
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034048.D
Acq On : 19 Sep 2024 11:22
Operator : JU/RC
Sample : P3845-08DL2 50X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL2

Quant Time: Sep 19 11:49:12 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



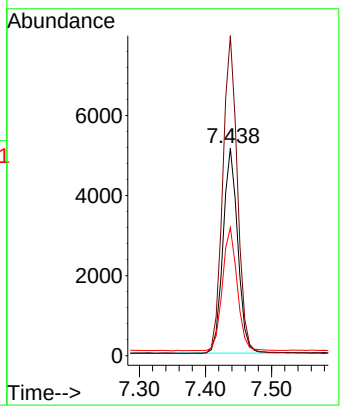


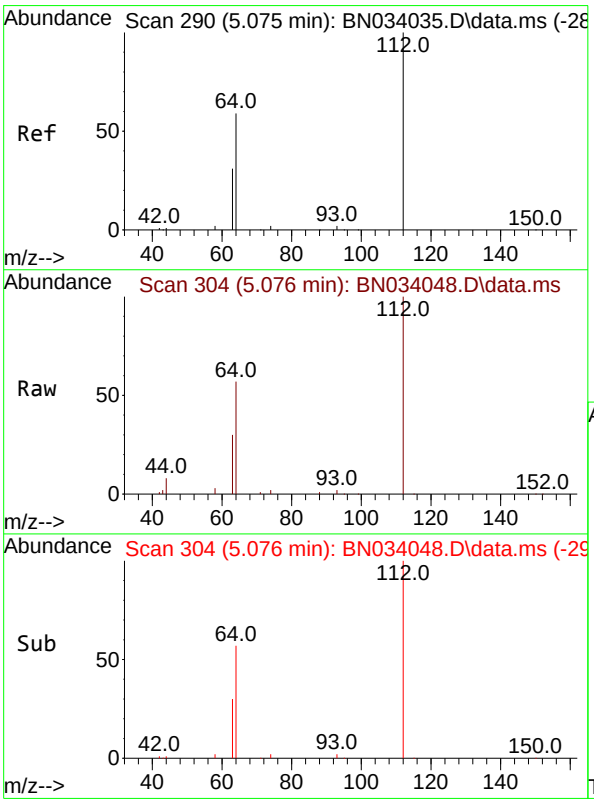
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.438 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL2

Tgt Ion:152 Resp: 7953

Ion	Ratio	Lower	Upper
152	100		
150	154.2	124.6	187.0
115	61.7	50.0	75.0

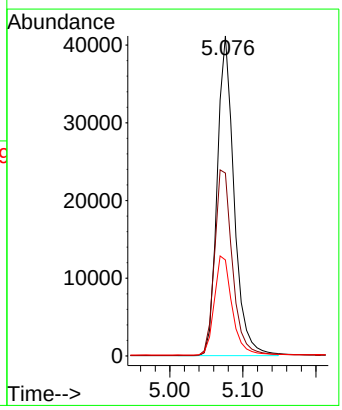


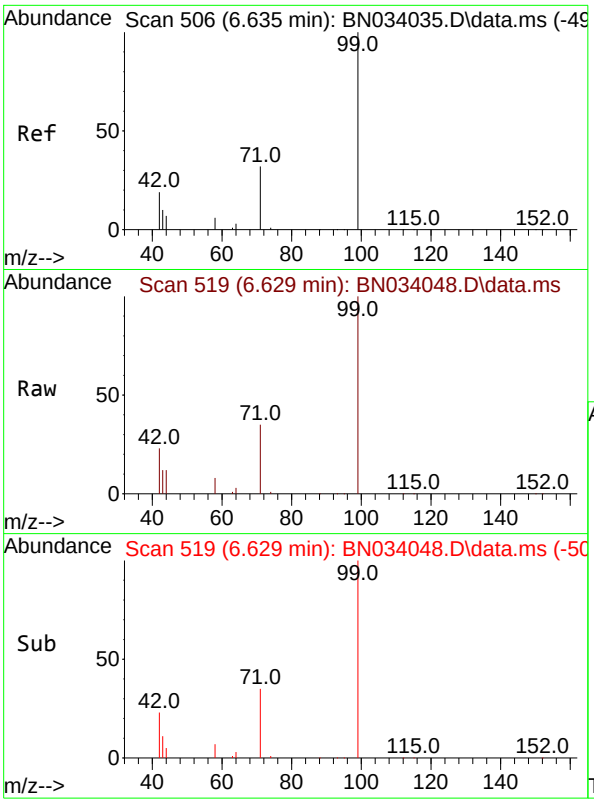


#4
2-Fluorophenol
Concen: 2.921 ng
RT: 5.076 min Scan# 304
Delta R.T. 0.001 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Tgt Ion:112 Resp: 65932

Ion	Ratio	Lower	Upper
112	100		
64	61.4	48.6	72.8
63	32.5	25.6	38.4



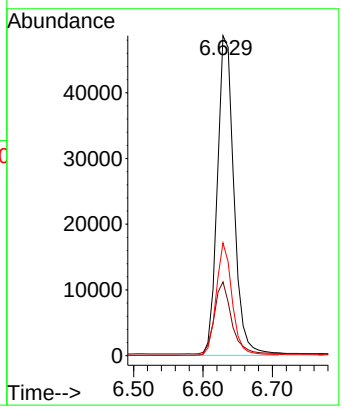


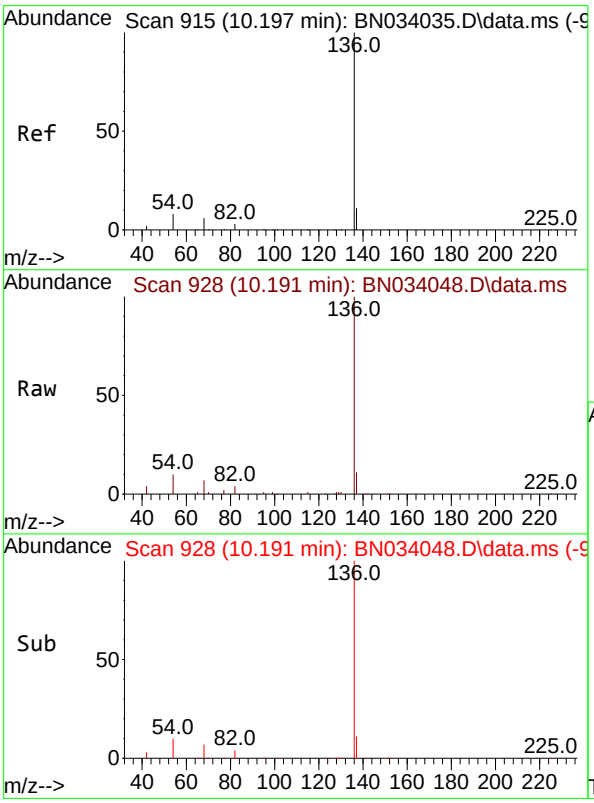
#5
Phenol-d6
Concen: 3.083 ng
RT: 6.629 min Scan# 5
Delta R.T. -0.006 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL2

Tgt Ion: 99 Resp: 80926

Ion	Ratio	Lower	Upper
99	100		
42	23.2	17.8	26.8
71	33.6	26.2	39.2

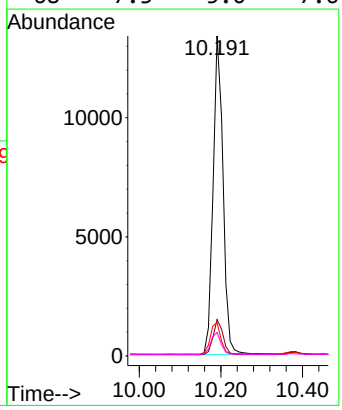


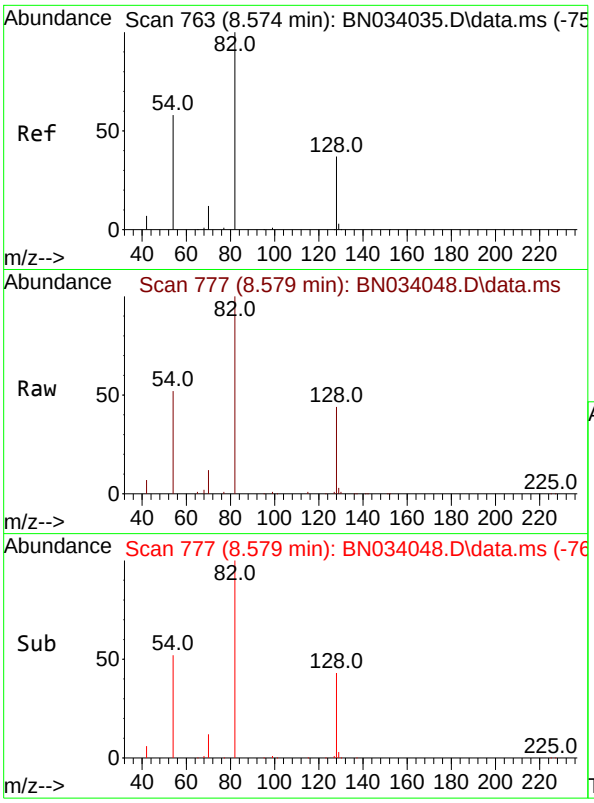


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.191 min Scan# 928
Delta R.T. -0.006 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Tgt Ion:136 Resp: 22663

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.6
54	10.4	6.8	10.2#
68	7.3	5.0	7.6



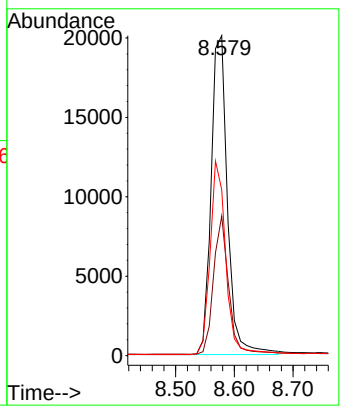


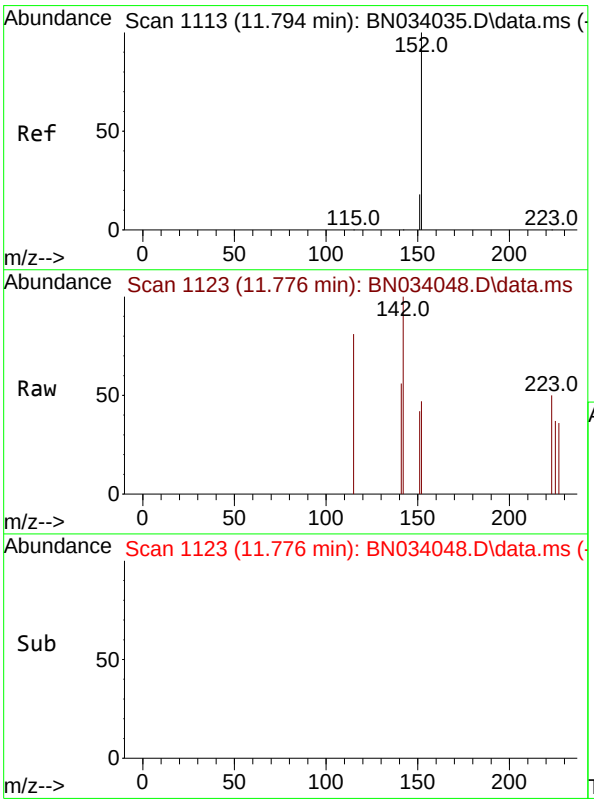
#8
Nitrobenzene-d5
Concen: 2.240 ng
RT: 8.579 min Scan# 7
Delta R.T. 0.005 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL2

Tgt Ion: 82 Resp: 38831

Ion	Ratio	Lower	Upper
82	100		
128	43.7	31.4	47.2
54	51.9	47.4	71.0

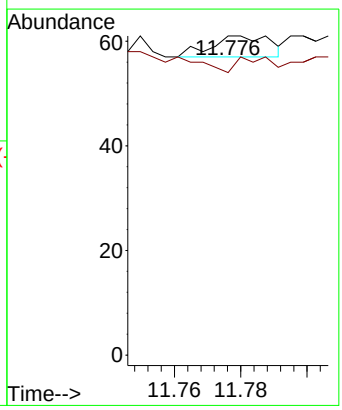


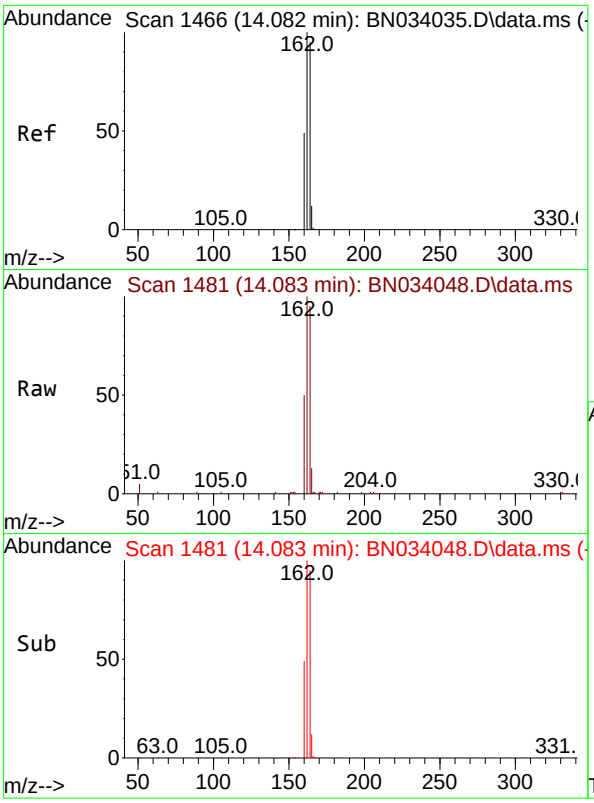


#11
2-Methylnaphthalene-d10
Concen: 0.000 ng
RT: 11.776 min Scan# 1123
Delta R.T. -0.017 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Tgt Ion:152 Resp: 5

Ion	Ratio	Lower	Upper
152	100		
151	40.0	16.8	25.2#



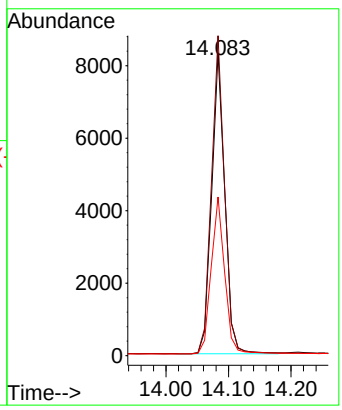


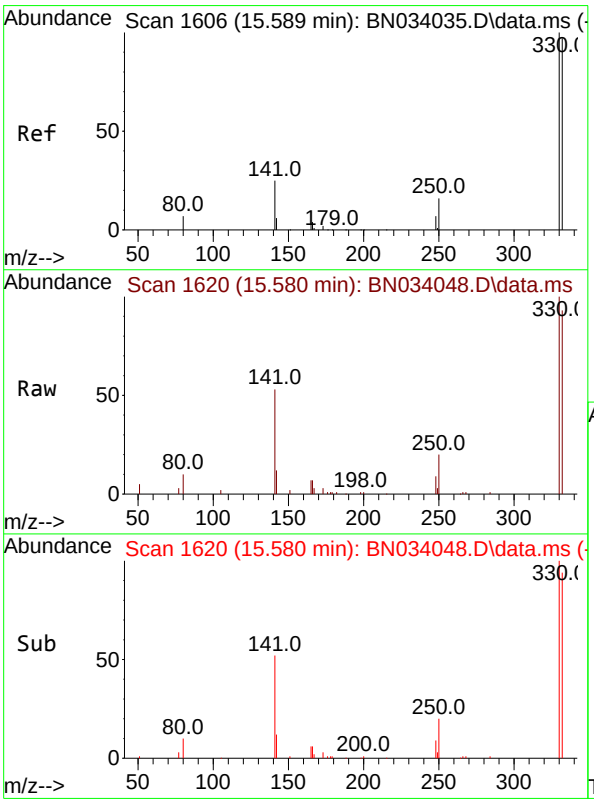
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.083 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL2

Tgt Ion:164 Resp: 12115

Ion	Ratio	Lower	Upper
164	100		
162	105.7	84.2	126.2
160	52.4	41.7	62.5

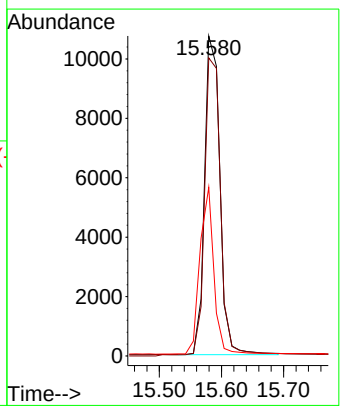


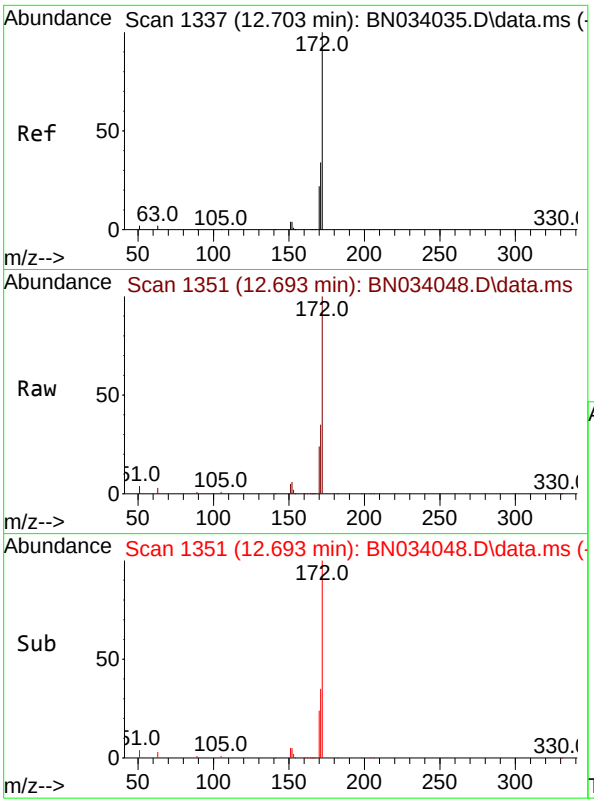


#14
2,4,6-Tribromophenol
Concen: 3.364 ng
RT: 15.580 min Scan# 1620
Delta R.T. -0.009 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Tgt Ion:330 Resp: 18465

Ion	Ratio	Lower	Upper
330	100		
332	95.8	77.4	116.0
141	47.6	35.9	53.9



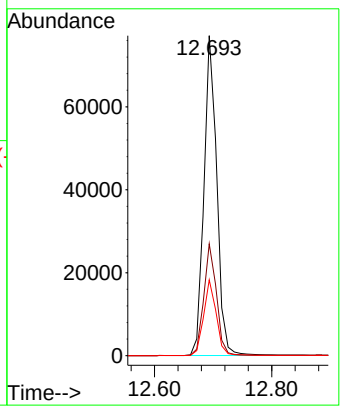


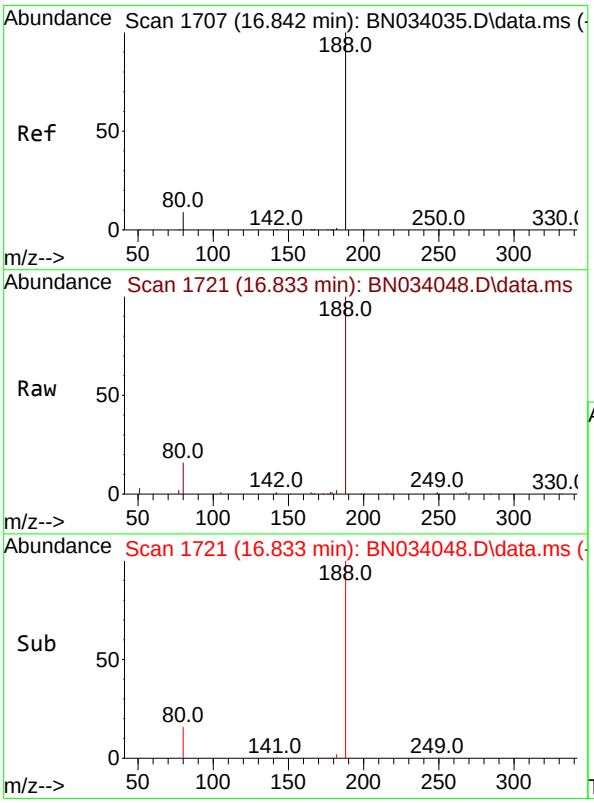
#15
2-Fluorobiphenyl
Concen: 2.383 ng
RT: 12.693 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL2

Tgt Ion:172 Resp: 117412

Ion	Ratio	Lower	Upper
172	100		
171	35.0	27.3	40.9
170	23.7	18.1	27.1

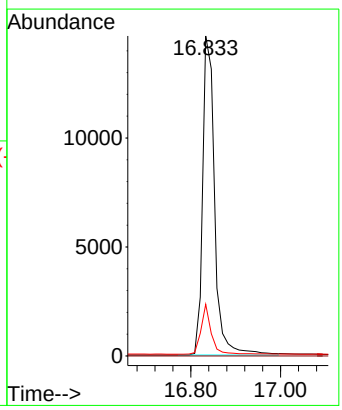


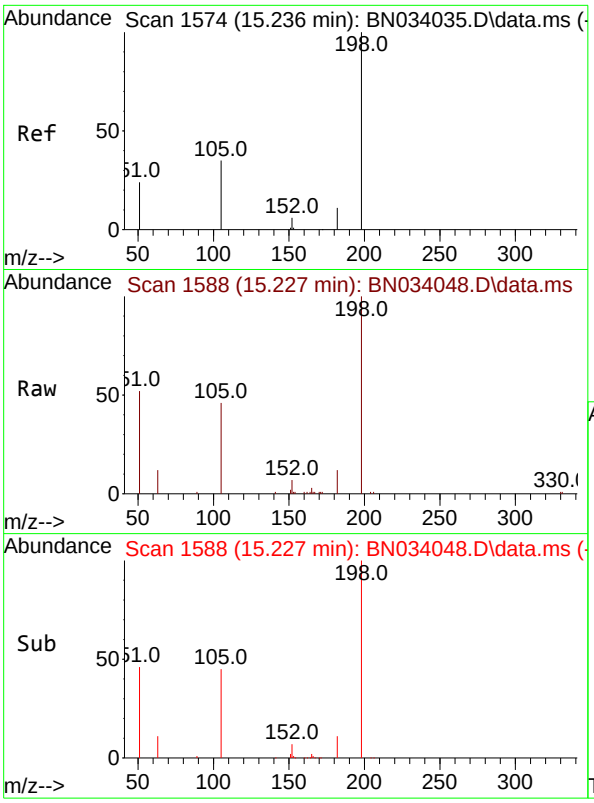


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.833 min Scan# 1721
Delta R.T. -0.009 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Tgt Ion:188 Resp: 27146

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.1	7.4	11.0#



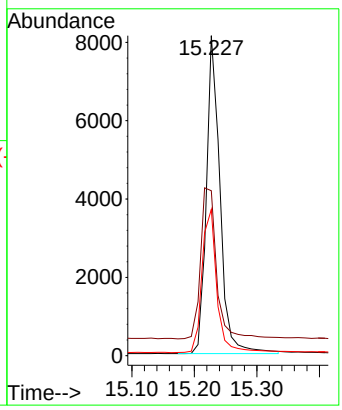


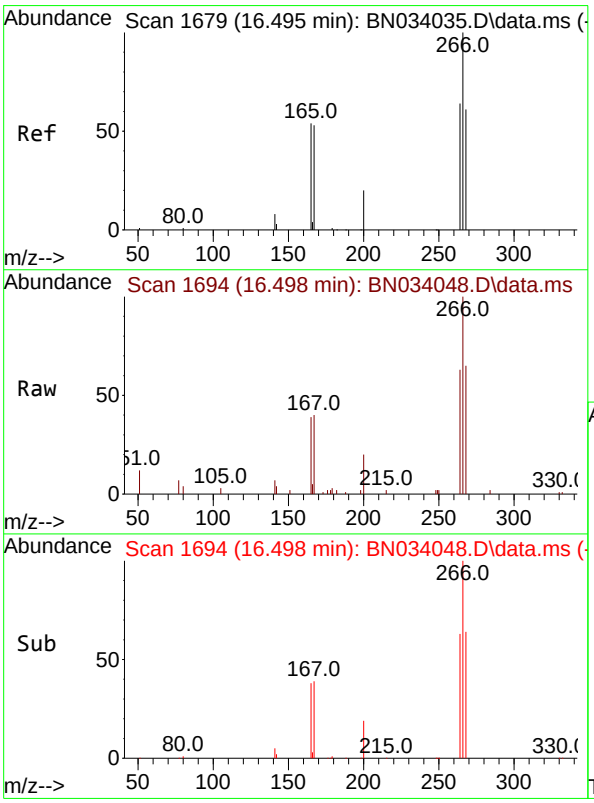
#20
4,6-Dinitro-2-methylphenol
Concen: 2.574 ng
RT: 15.227 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL2

Tgt Ion:198 Resp: 12269

Ion	Ratio	Lower	Upper
198	100		
51	51.5	106.4	159.6#
105	45.7	38.5	57.7

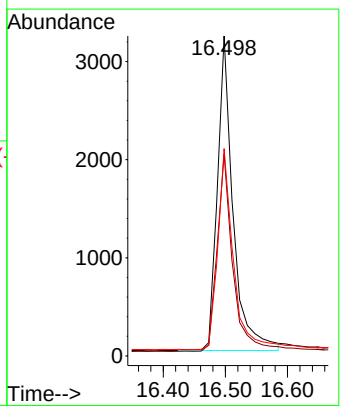


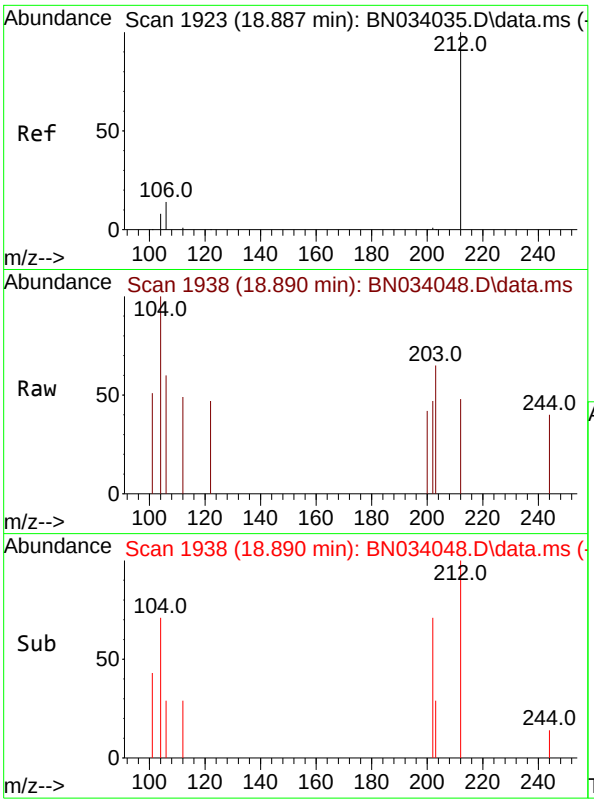


#24
Pentachlorophenol
Concen: 0.989 ng
RT: 16.498 min Scan# 1694
Delta R.T. 0.003 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Tgt Ion:266 Resp: 5598

Ion	Ratio	Lower	Upper
266	100		
264	62.6	50.2	75.2
268	63.7	51.0	76.4



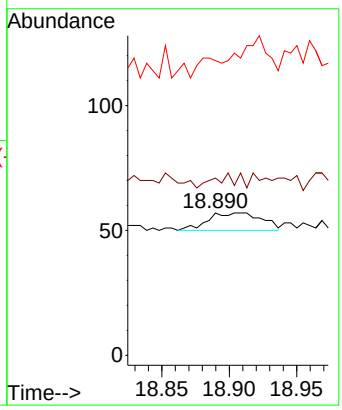


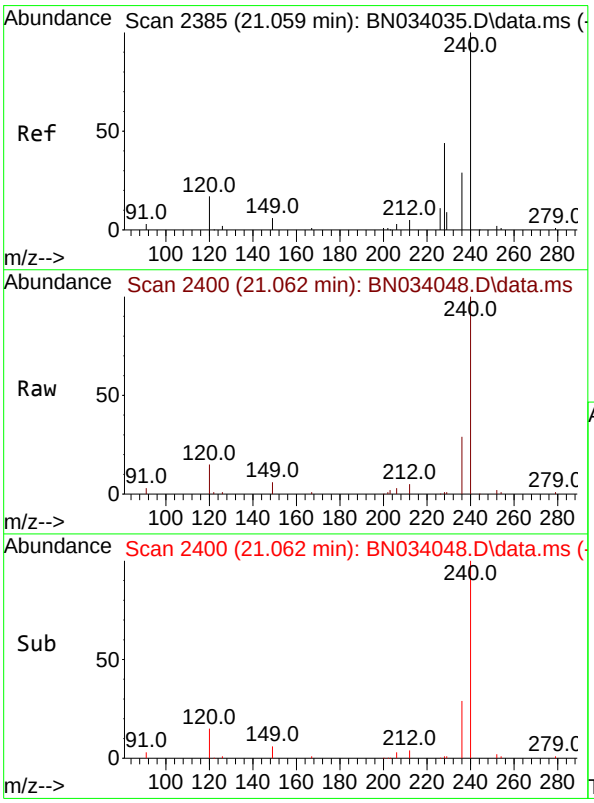
#27
Fluoranthene-d10
Concen: 0.000 ng
RT: 18.890 min Scan# 1
Delta R.T. 0.003 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL2

Tgt Ion:212 Resp: 20

Ion	Ratio	Lower	Upper
212	100		
106	15.0	13.4	20.2
104	45.0	7.8	11.6#

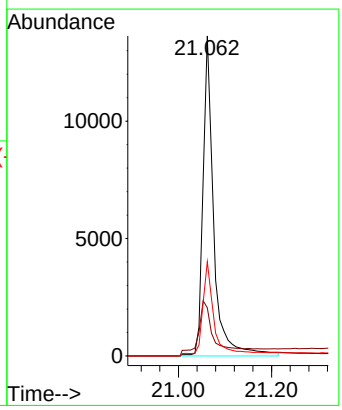


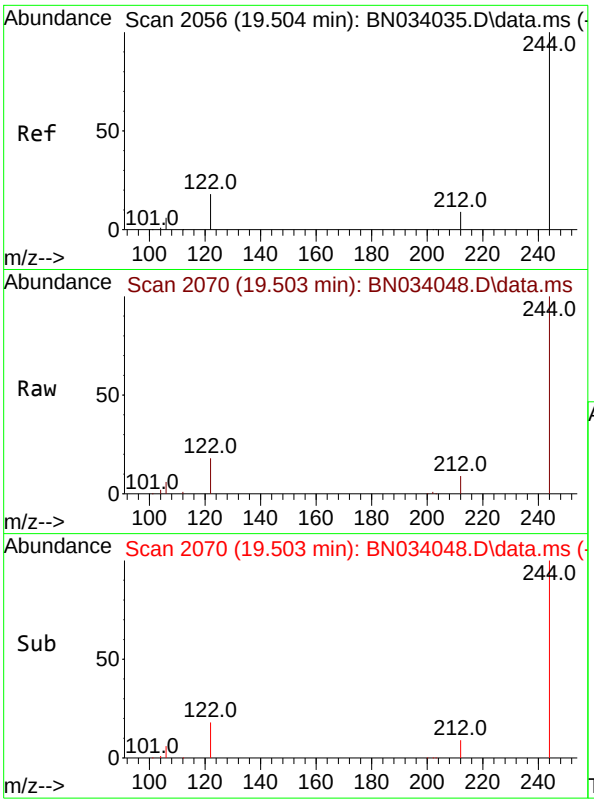


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.062 min Scan# 2400
Delta R.T. 0.003 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Tgt Ion:240 Resp: 21019

Ion	Ratio	Lower	Upper
240	100		
120	15.0	13.5	20.3
236	29.4	23.4	35.0



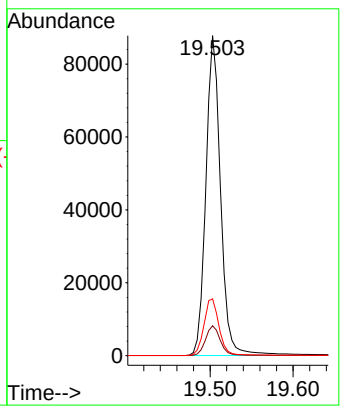


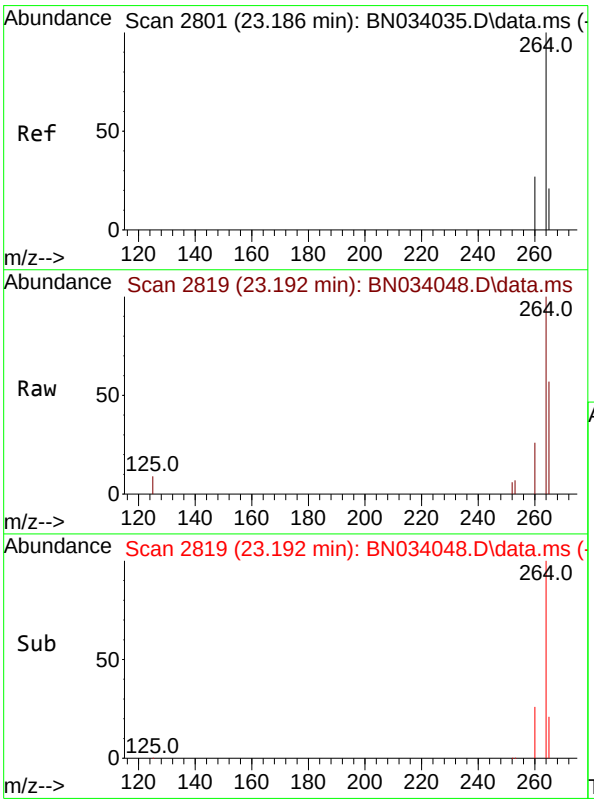
#31
Terphenyl-d14
Concen: 2.576 ng
RT: 19.503 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Instrument :
BNA_N
ClientSampleId :
PT-ACIDS-WPDL2

Tgt Ion:244 Resp: 108123

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.8	11.6
122	17.7	14.8	22.2

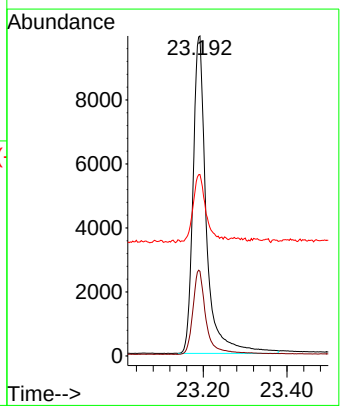




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.192 min Scan# 2819
Delta R.T. 0.006 min
Lab File: BN034048.D
Acq: 19 Sep 2024 11:22

Tgt Ion:264 Resp: 22022

Ion	Ratio	Lower	Upper
264	100		
260	26.4	21.7	32.5
265	56.7	52.1	78.1



CALIBRATION SUMMARY

Response Factor Report BNA_N

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN091924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 18 16:09:28 2024
Response Via : Initial Calibration

Calibration Files
0.1 =BN034033.D 0.2 =BN034034.D 0.4 =BN034035.D 0.8 =BN034036.D 1.6 =BN034037.D 3.2 =BN034038.D 5.0 =BN034039.D

		Compound	0.1	0.2	0.4	0.8	1.6	3.2	5.0	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------								
2)		1,4-Dioxane	0.558	0.536	0.503	0.503	0.488	0.468	0.445	0.500	7.73
3)		n-Nitrosodimet...	0.531	0.571	0.550	0.613	0.606	0.560	0.553	0.569	5.30
4)	S	2-Fluorophenol	1.201	1.157	1.069	1.203	1.148	1.080	1.089	1.135	4.97
5)	S	Phenol-d6	1.239	1.215	1.189	1.406	1.401	1.371	1.421	1.320	7.69
6)		bis(2-Chloroet...	1.156	1.095	1.106	1.276	1.223	1.159	1.162	1.168	5.44
7)	I	Naphthalene-d8	----------ISTD----------								
8)	S	Nitrobenzene-d5	0.270	0.269	0.280	0.331	0.336	0.321	0.336	0.306	10.30
9)		Naphthalene	1.092	1.062	1.056	1.171	1.149	1.068	1.088	1.098	4.07
10)		Hexachlorobuta...	0.216	0.208	0.204	0.219	0.213	0.192	0.195	0.207	4.93
11)	SURR	2-Methylnaphth...	0.568	0.554	0.560	0.631	0.627	0.585	0.610	0.591	5.42
12)		2-Methylnaphth...	0.680	0.671	0.678	0.763	0.759	0.713	0.736	0.714	5.48
13)	I	Acenaphthene-d10	----------ISTD----------								
14)	S	2,4,6-Tribromo...	0.162	0.156	0.155	0.187	0.192	0.197	0.220	0.181	13.49
15)	S	2-Fluorobiphenyl	1.629	1.576	1.574	1.722	1.693	1.597	1.595	1.627	3.62
16)		Acenaphthylene	1.530	1.512	1.537	1.804	1.846	1.838	1.918	1.712	10.35
17)		Acenaphthene	1.206	1.182	1.175	1.298	1.272	1.224	1.240	1.228	3.71
18)		Fluorene	1.582	1.538	1.528	1.704	1.690	1.618	1.621	1.612	4.24
19)	I	Phenanthrene-d10	----------ISTD----------								
20)		4,6-Dinitro-2-...		0.042	0.046	0.061	0.065	0.072		0.057	21.90
21)		4-Bromophenyl-...	0.218	0.210	0.213	0.236	0.236	0.225	0.236	0.225	5.01
22)		Hexachlorobenzene	0.250	0.246	0.248	0.259	0.263	0.246	0.254	0.252	2.62
23)		Atrazine	0.175	0.170	0.170	0.198	0.197	0.192	0.203	0.186	7.55
24)		Pentachlorophenol	0.078	0.065	0.070	0.088	0.095	0.105		0.083	18.27
25)		Phenanthrene	1.153	1.090	1.107	1.196	1.191	1.129	1.174	1.149	3.61
26)		Anthracene	0.817	0.826	0.843	0.985	1.008	1.011	1.071	0.937	11.20
27)	SURR	Fluoranthene-d10	0.965	0.947	0.953	1.059	1.054	1.013	1.072	1.009	5.35
28)		Fluoranthene	1.249	1.226	1.258	1.405	1.414	1.359	1.405	1.331	6.26
29)	I	Chrysene-d12	----------ISTD----------								
30)		Pyrene	1.720	1.641	1.691	1.763	1.713	1.620	1.670	1.688	2.91
31)	S	Terphenyl-d14	0.810	0.767	0.794	0.842	0.821	0.767	0.791	0.799	3.46
32)		Benzo(a)anthra...	1.227	1.187	1.178	1.343	1.303	1.272	1.350	1.265	5.59
33)		Chrysene	1.487	1.410	1.529	1.610	1.559	1.464	1.509	1.510	4.32
34)		Bis(2-ethylhex...		0.628	0.550	0.498	0.457	0.485	0.546	0.527	11.57
35)	I	Perylene-d12	----------ISTD----------								

Method Path : Z:\svoasrv\HPCHEM1\BNA_N\Methods\
Method File : 8270-SIM-BN091924.M

36)		Indeno(1,2,3-c...	1.594	1.543	1.765	1.863	1.772	1.717	1.744	1.714	6.44
37)		Benzo(b)fluora...	1.427	1.415	1.453	1.625	1.695	1.657	1.696	1.567	8.25
38)		Benzo(k)fluora...	1.514	1.538	1.626	1.746	1.760	1.628	1.701	1.645	5.87
39)	C	Benzo(a)pyrene	1.167	1.122	1.197	1.335	1.369	1.340	1.409	1.277	8.80
40)		Dibenzo(a,h)an...	1.212	1.185	1.352	1.458	1.390	1.355	1.369	1.331	7.36
41)		Benzo(g,h,i)pe...	1.446	1.408	1.505	1.608	1.534	1.477	1.491	1.495	4.30

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034033.D
Acq On : 18 Sep 2024 11:53
Operator : JU/RC
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Sep 18 16:13:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.437	152	7282	0.400	ng		0.00
7) Naphthalene-d8	10.197	136	20881	0.400	ng		0.00
13) Acenaphthene-d10	14.082	164	11814	0.400	ng		0.00
19) Phenanthrene-d10	16.842	188	26716	0.400	ng		0.00
29) Chrysene-d12	21.068	240	20245	0.400	ng	#	0.00
35) Perylene-d12	23.189	264	20942	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.075	112	2186	0.106	ng		0.00
5) Phenol-d6	6.635	99	2255	0.094	ng		0.00
8) Nitrobenzene-d5	8.574	82	1408	0.088	ng		0.00
11) 2-Methylnaphthalene-d10	11.794	152	2963	0.096	ng		0.00
14) 2,4,6-Tribromophenol	15.589	330	477	0.089	ng		0.00
15) 2-Fluorobiphenyl	12.703	172	4812	0.100	ng		0.00
27) Fluoranthene-d10	18.887	212	6448	0.096	ng		0.00
31) Terphenyl-d14	19.504	244	4102	0.101	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.082	88	1016	0.112	ng	#	75
3) n-Nitrosodimethylamine	3.385	42	967	0.093	ng	#	87
6) bis(2-Chloroethyl)ether	6.880	93	2104	0.099	ng		99
9) Naphthalene	10.240	128	5699	0.099	ng		97
10) Hexachlorobutadiene	10.539	225	1128	0.104	ng	#	100
12) 2-Methylnaphthalene	11.869	142	3549	0.095	ng		98
16) Acenaphthylene	13.793	152	4519	0.089	ng		99
17) Acenaphthene	14.146	154	3563	0.098	ng		99
18) Fluorene	15.140	166	4672	0.098	ng		100
21) 4-Bromophenyl-phenylether	16.048	248	1455	0.097	ng		97
22) Hexachlorobenzene	16.147	284	1671	0.099	ng		100
23) Atrazine	16.334	200	1169	0.094	ng		95
24) Pentachlorophenol	16.495	266	518	0.093	ng		96
25) Phenanthrene	16.880	178	7703	0.100	ng		99
26) Anthracene	16.967	178	5457	0.087	ng		99
28) Fluoranthene	18.915	202	8339	0.094	ng		99
30) Pyrene	19.282	202	8705	0.102	ng		100
32) Benzo(a)anthracene	21.050	228	6208	0.097	ng		98
33) Chrysene	21.104	228	7525	0.098	ng		98
36) Indeno(1,2,3-cd)pyrene	25.282	276	8343	0.093	ng		99
37) Benzo(b)fluoranthene	22.566	252	7469	0.091	ng	#	77
38) Benzo(k)fluoranthene	22.607	252	7926	0.092	ng	#	80
39) Benzo(a)pyrene	23.098	252	6111	0.091	ng	#	67
40) Dibenzo(a,h)anthracene	25.297	278	6343	0.091	ng	#	86
41) Benzo(g,h,i)perylene	25.911	276	7573	0.097	ng		95

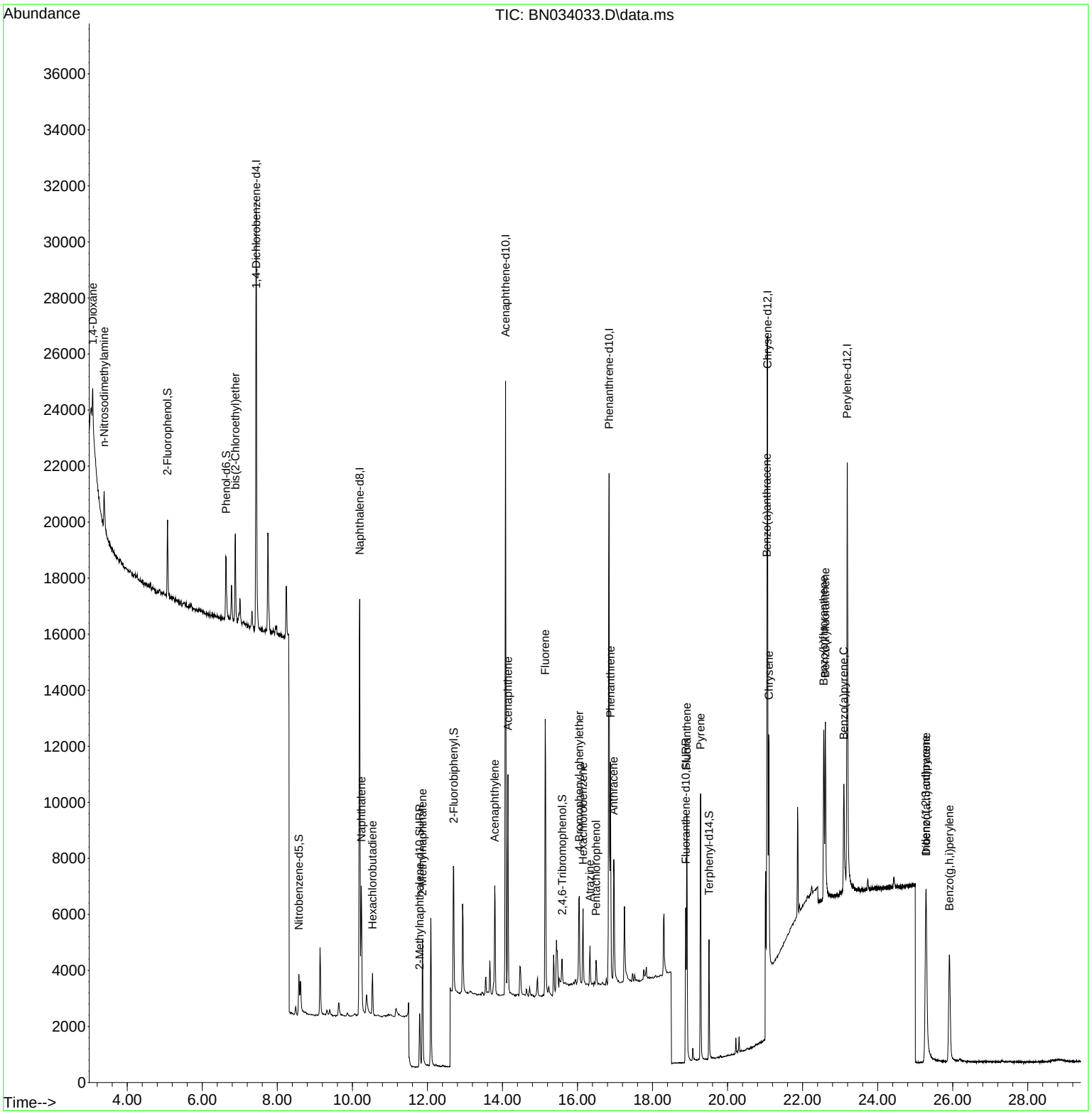
(#) = qualifier out of range (m) = manual integration (+) = signals summed

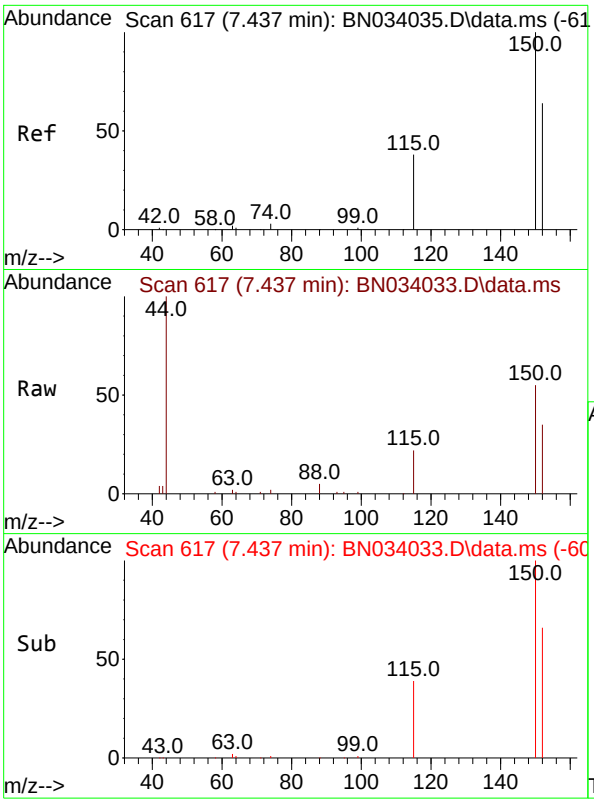
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034033.D
Acq On : 18 Sep 2024 11:53
Operator : JU/RC
Sample : SSTDICC0.1
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Quant Time: Sep 18 16:13:40 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



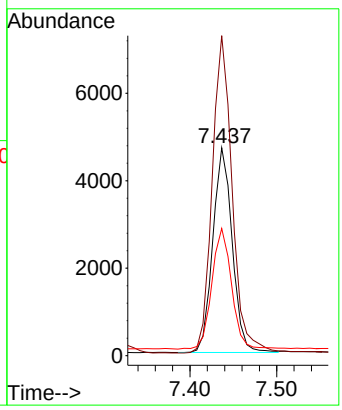


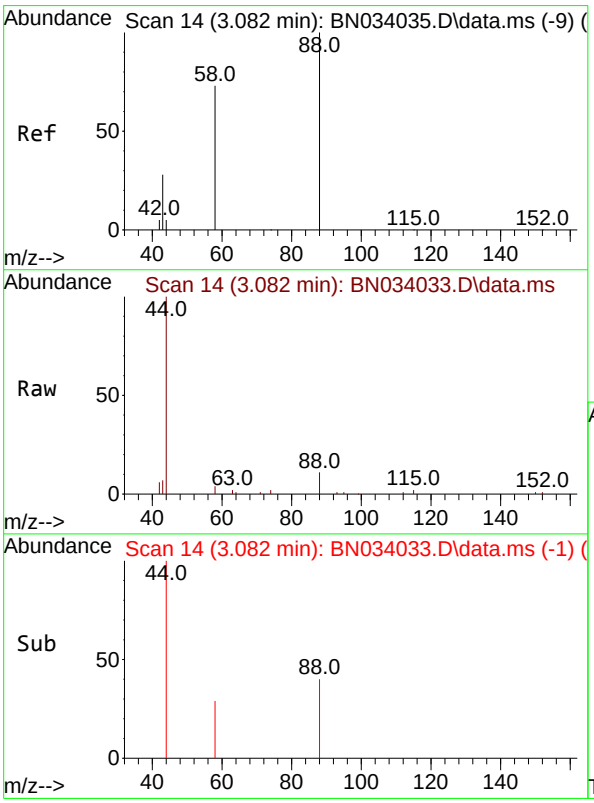
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.437 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 7282

Ion	Ratio	Lower	Upper
152	100		
150	153.9	124.6	187.0
115	61.2	50.0	75.0

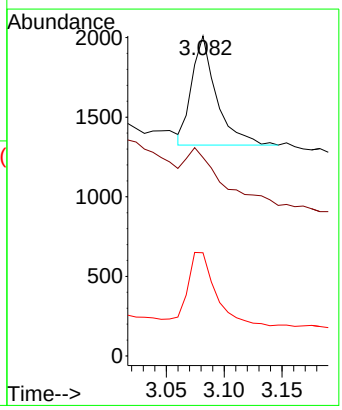


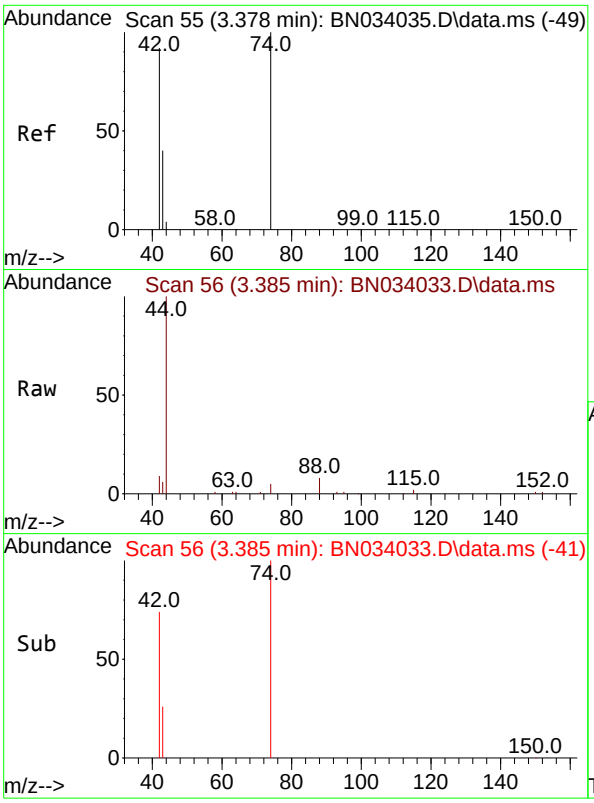


#2
1,4-Dioxane
Concen: 0.112 ng
RT: 3.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion: 88 Resp: 1016

Ion	Ratio	Lower	Upper
88	100		
43	75.2	25.8	38.8#
58	75.6	58.8	88.2



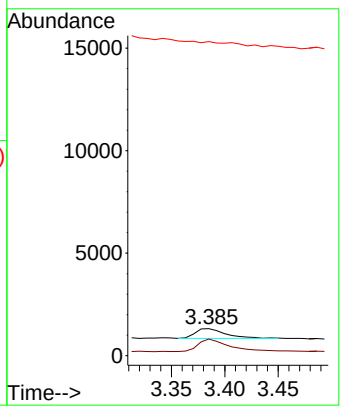


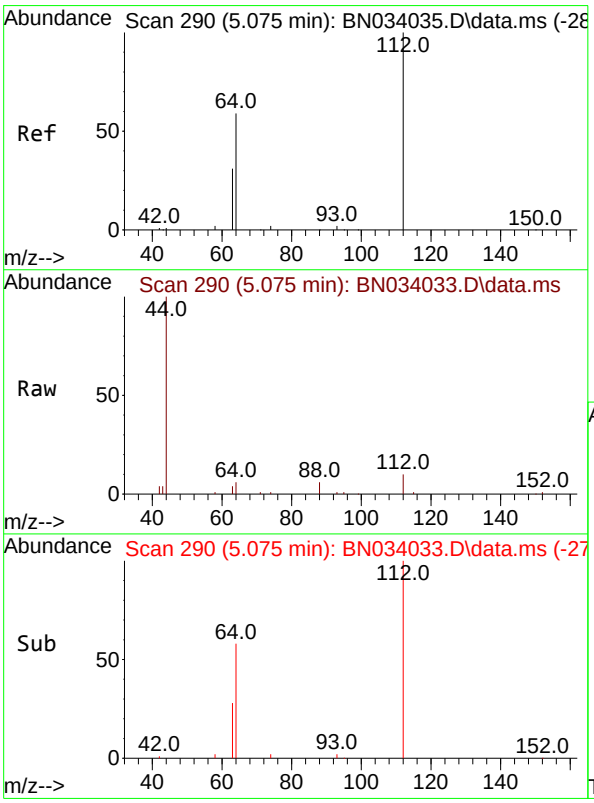
#3
n-Nitrosodimethylamine
Concen: 0.093 ng
RT: 3.385 min Scan# 5
Delta R.T. 0.007 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 42 Resp: 967

Ion	Ratio	Lower	Upper
42	100		
74	129.8	94.6	142.0
44	0.0	12.4	18.6#

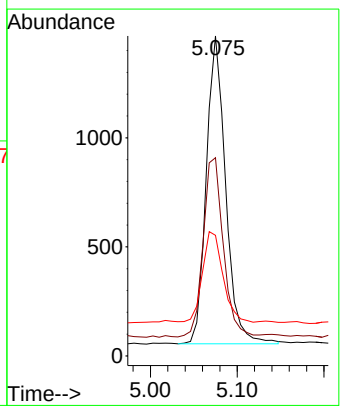


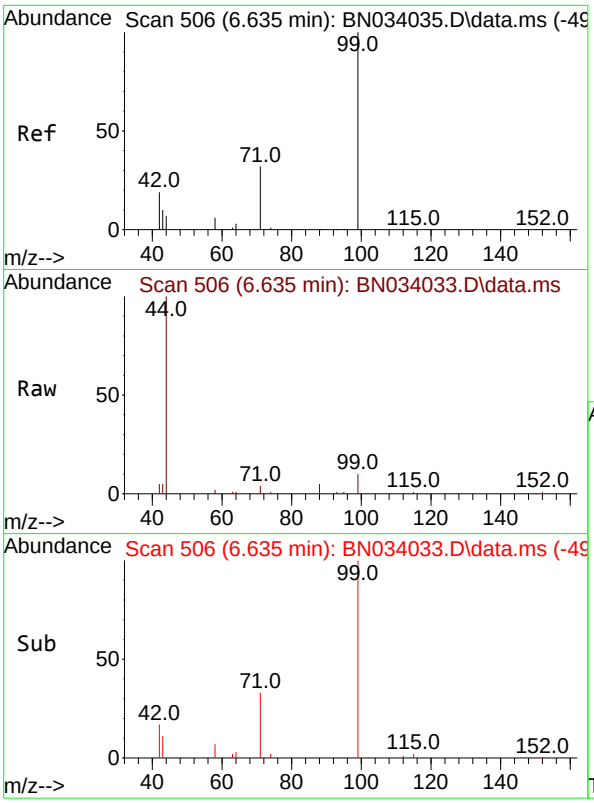


#4
2-Fluorophenol
Concen: 0.106 ng
RT: 5.075 min Scan# 290
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:112 Resp: 2186

Ion	Ratio	Lower	Upper
112	100		
64	60.7	48.6	72.8
63	30.9	25.6	38.4



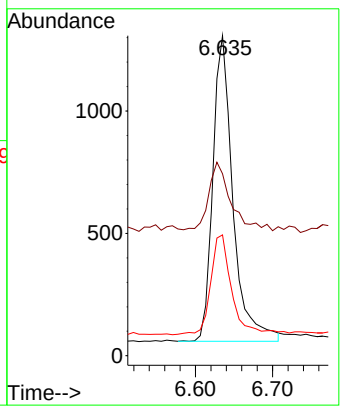


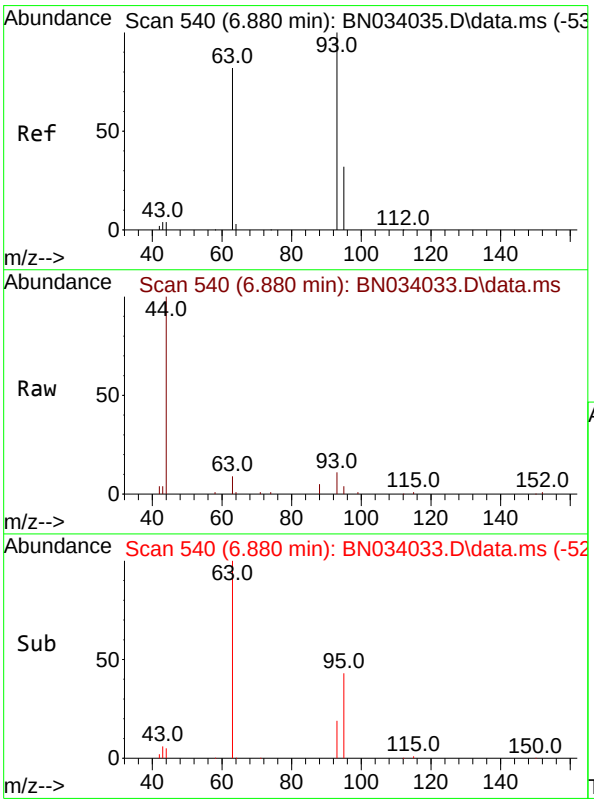
#5
Phenol-d6
Concen: 0.094 ng
RT: 6.635 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion: 99 Resp: 2255

Ion	Ratio	Lower	Upper
99	100		
42	24.6	17.8	26.8
71	34.1	26.2	39.2

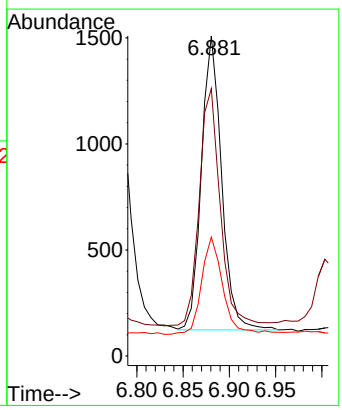


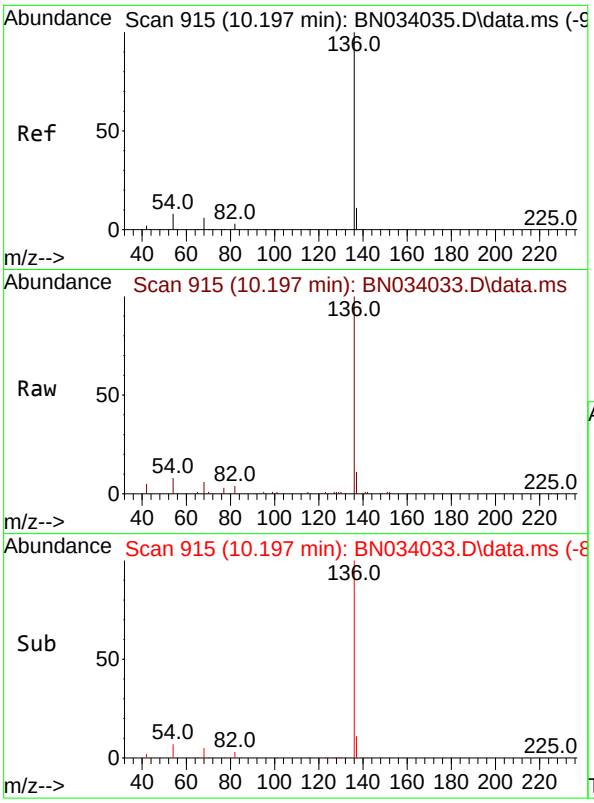


#6
bis(2-Chloroethyl)ether
Concen: 0.099 ng
RT: 6.880 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion: 93 Resp: 2104

Ion	Ratio	Lower	Upper
93	100		
63	83.7	67.3	100.9
95	35.1	26.8	40.2



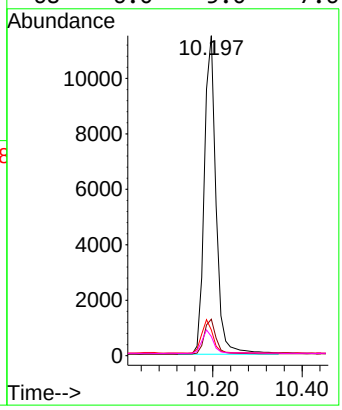


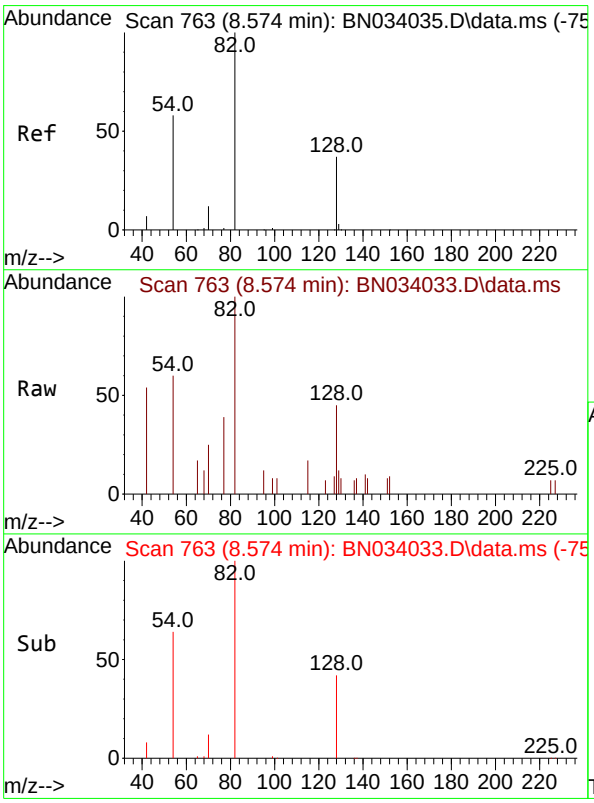
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.197 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:136 Resp: 20881

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.6
54	8.0	6.8	10.2
68	6.0	5.0	7.6

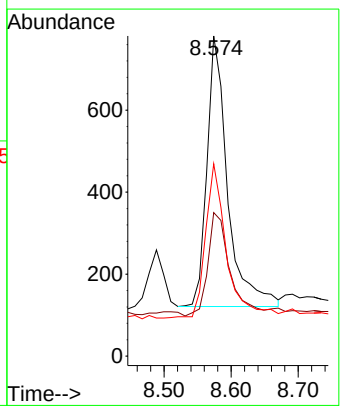


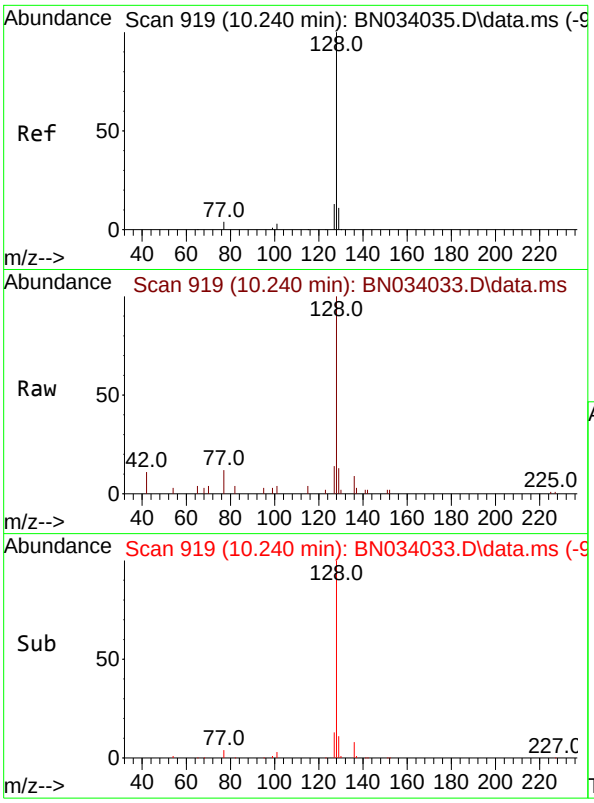


#8
Nitrobenzene-d5
Concen: 0.088 ng
RT: 8.574 min Scan# 763
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion: 82 Resp: 1408

Ion	Ratio	Lower	Upper
82	100		
128	44.8	31.4	47.2
54	60.1	47.4	71.0



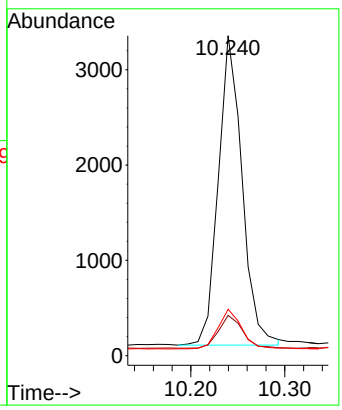


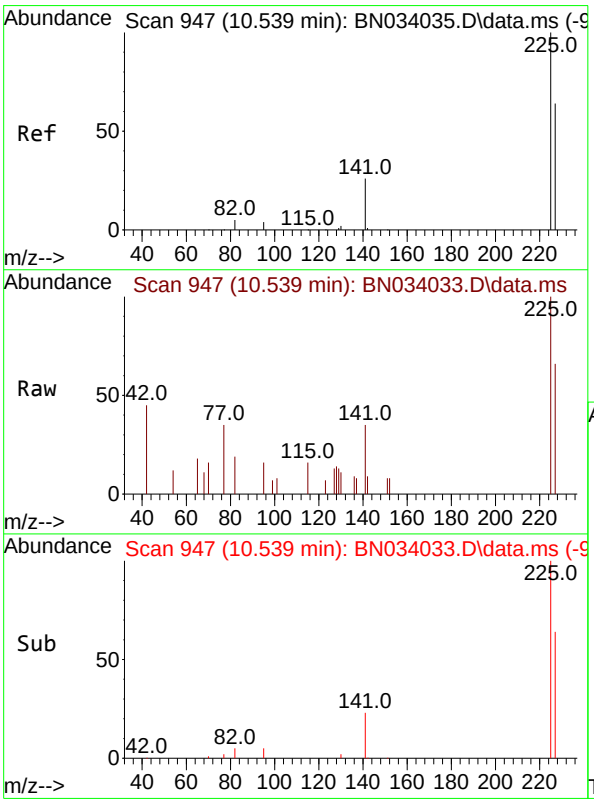
#9
Naphthalene
Concen: 0.099 ng
RT: 10.240 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:128 Resp: 5699

Ion	Ratio	Lower	Upper
128	100		
129	12.6	9.2	13.8
127	14.5	10.7	16.1

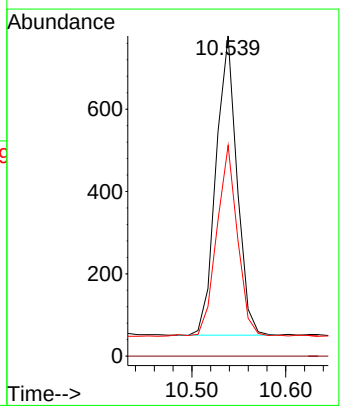


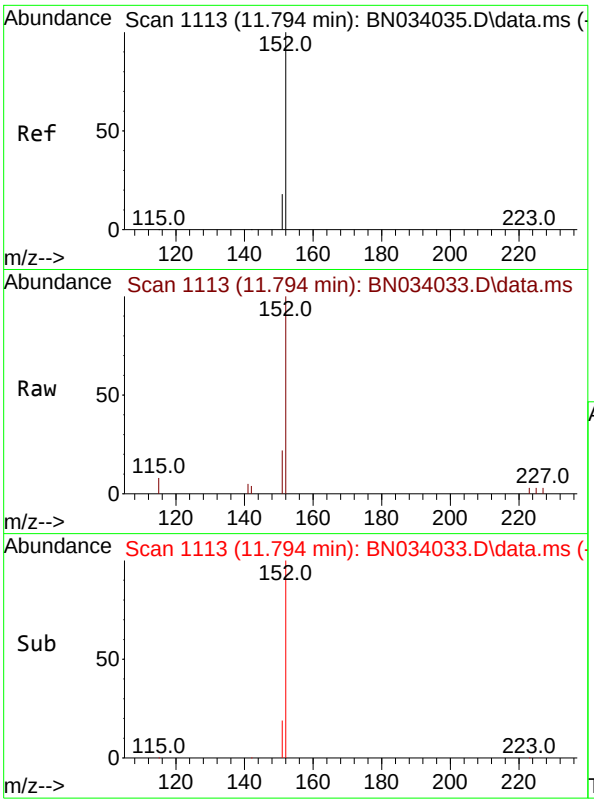


#10
Hexachlorobutadiene
Concen: 0.104 ng
RT: 10.539 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:225 Resp: 1128

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	50.5	75.7



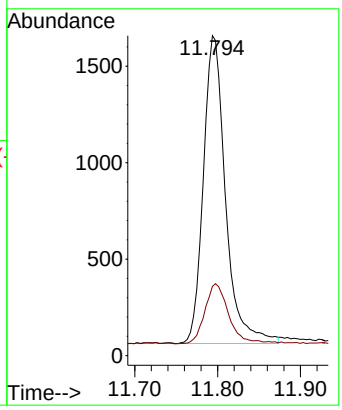


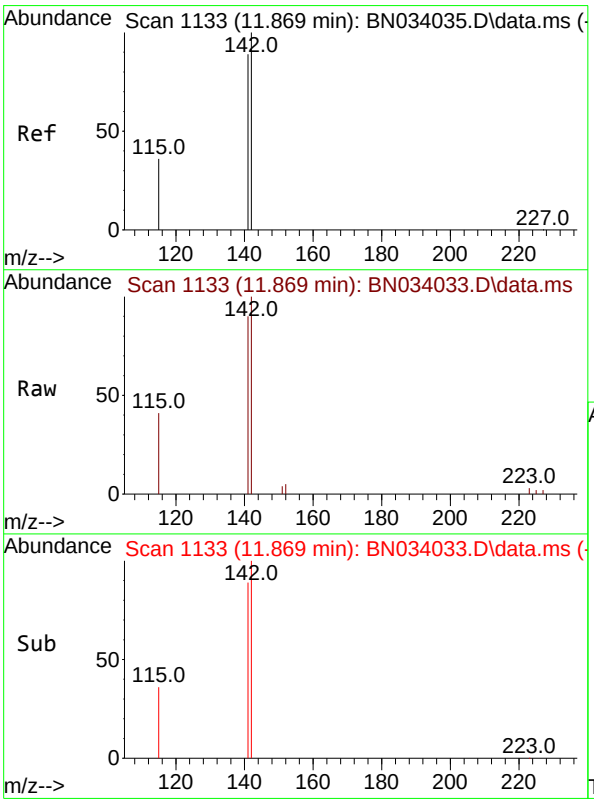
#11
2-Methylnaphthalene-d10
Concen: 0.096 ng
RT: 11.794 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:152 Resp: 2963

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.8	25.2

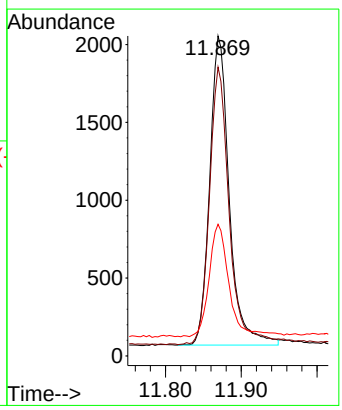


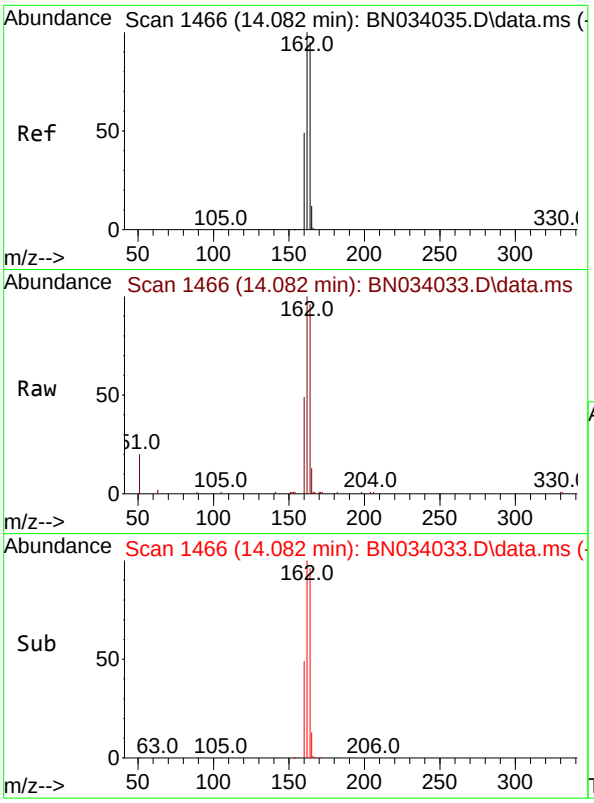


#12
2-Methylnaphthalene
Concen: 0.095 ng
RT: 11.869 min Scan# 1133
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:142 Resp: 3549

Ion	Ratio	Lower	Upper
142	100		
141	90.3	71.6	107.4
115	41.1	30.0	45.0



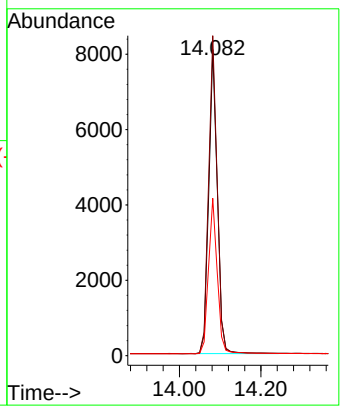


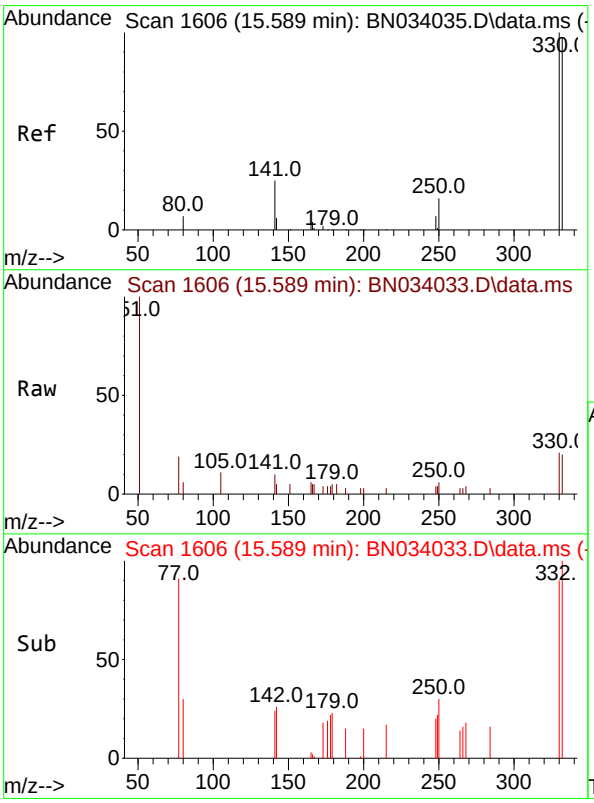
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:164 Resp: 11814

Ion	Ratio	Lower	Upper
164	100		
162	104.5	84.2	126.2
160	51.4	41.7	62.5

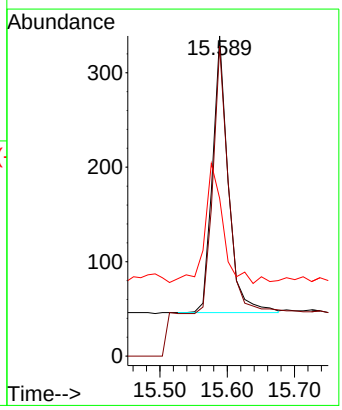


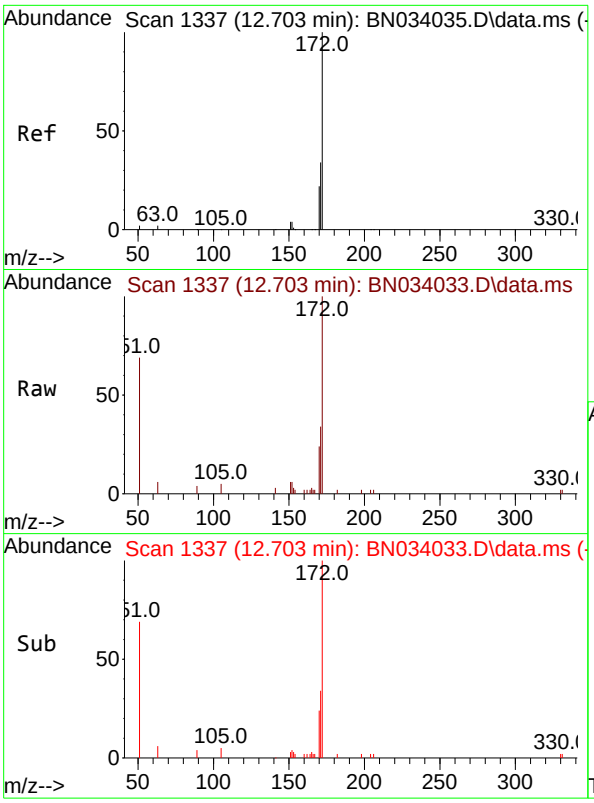


#14
2,4,6-Tribromophenol
Concen: 0.089 ng
RT: 15.589 min Scan# 1606
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:330 Resp: 477

Ion	Ratio	Lower	Upper
330	100		
332	95.6	77.4	116.0
141	48.6	35.9	53.9



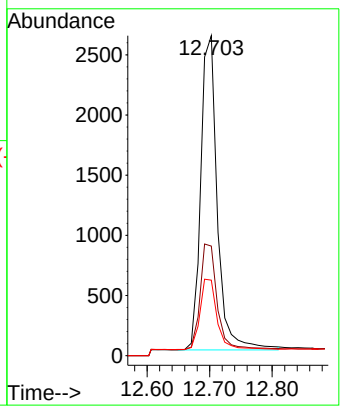


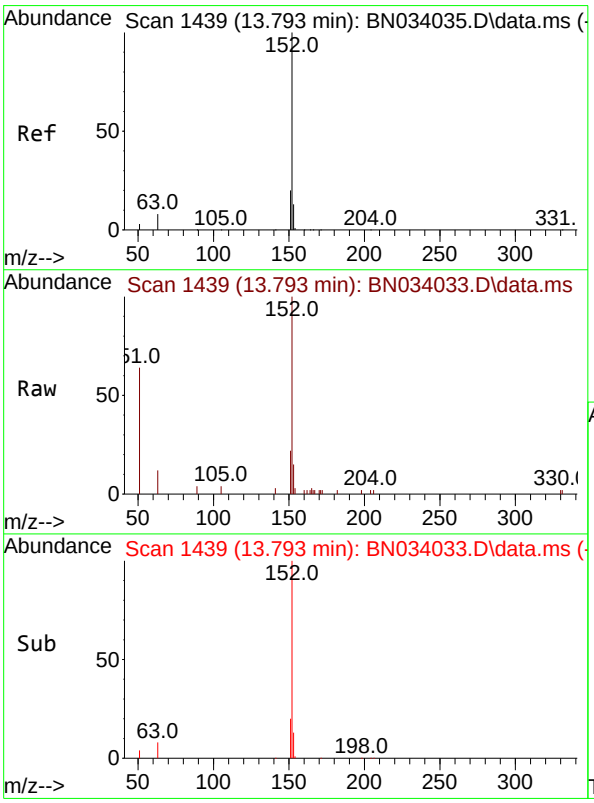
#15
2-Fluorobiphenyl
Concen: 0.100 ng
RT: 12.703 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:172 Resp: 4812

Ion	Ratio	Lower	Upper
172	100		
171	34.3	27.3	40.9
170	23.6	18.1	27.1

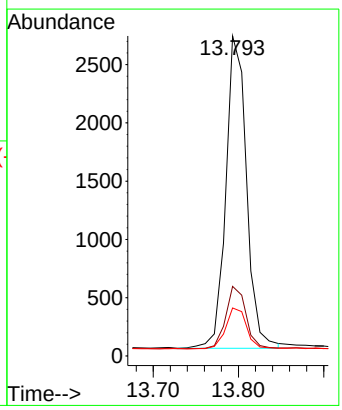


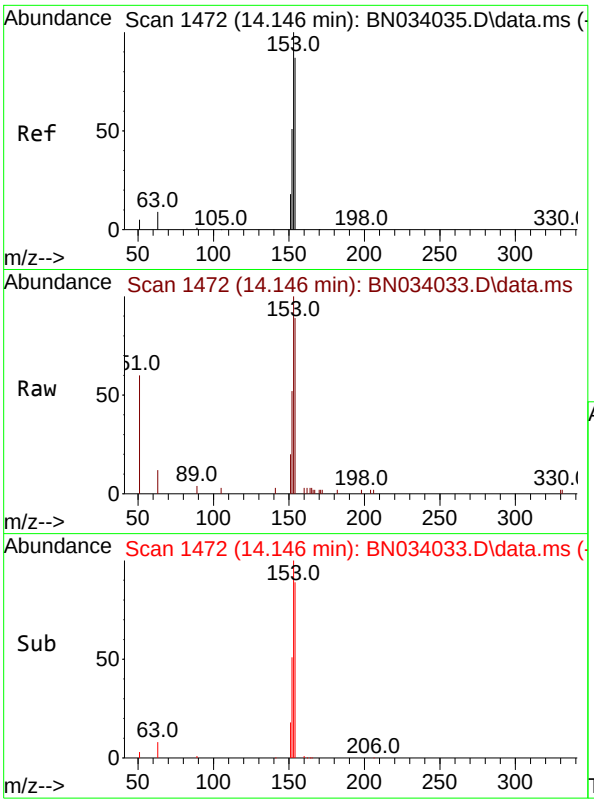


#16
Acenaphthylene
Concen: 0.089 ng
RT: 13.793 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:152 Resp: 4519

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.6	23.4
153	13.3	10.3	15.5



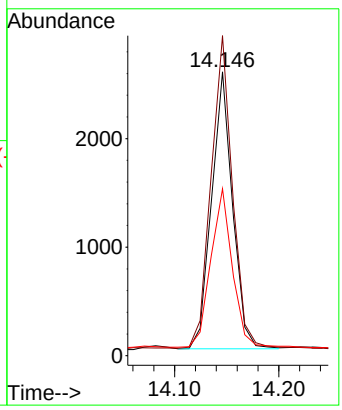


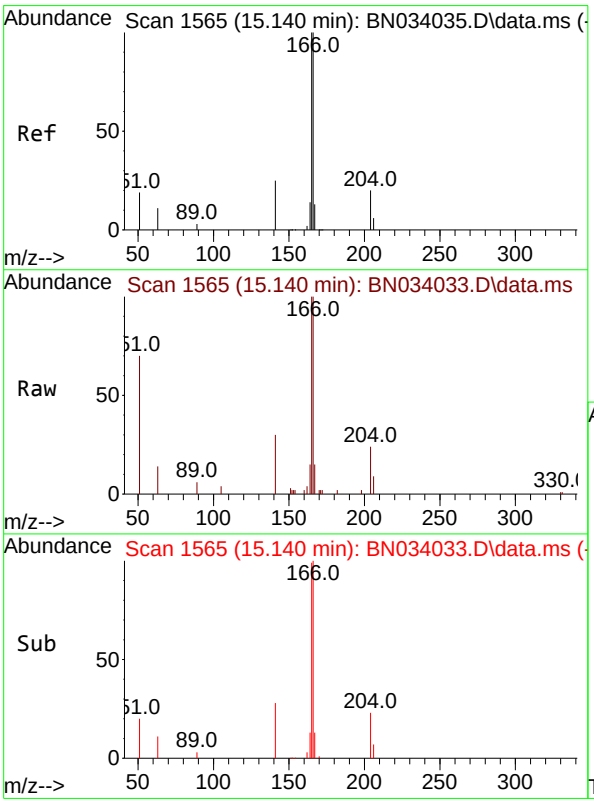
#17
Acenaphthene
Concen: 0.098 ng
RT: 14.146 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:154 Resp: 3563

Ion	Ratio	Lower	Upper
154	100		
153	115.0	91.6	137.4
152	58.7	47.4	71.2

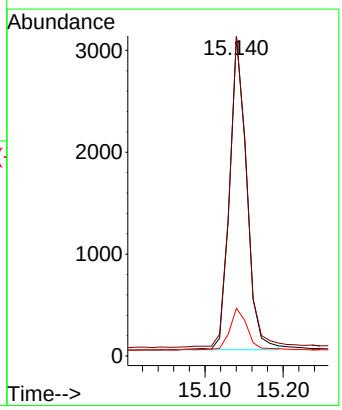


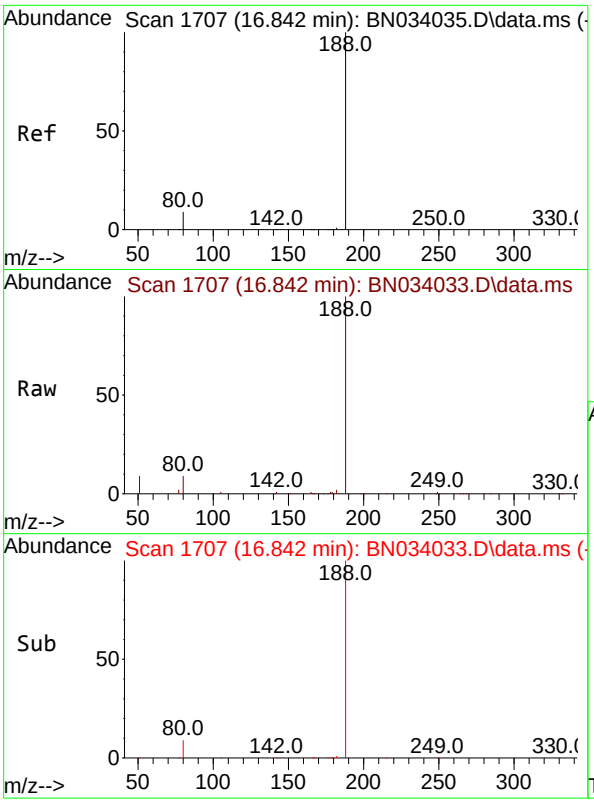


#18
Fluorene
Concen: 0.098 ng
RT: 15.140 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:166 Resp: 4672

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.1	118.7
167	13.8	10.6	15.8



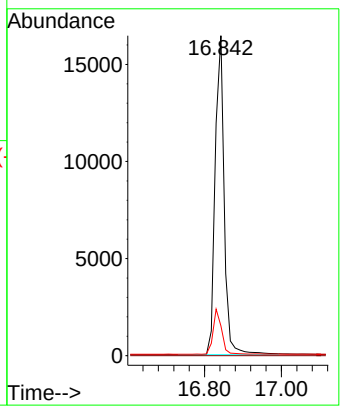


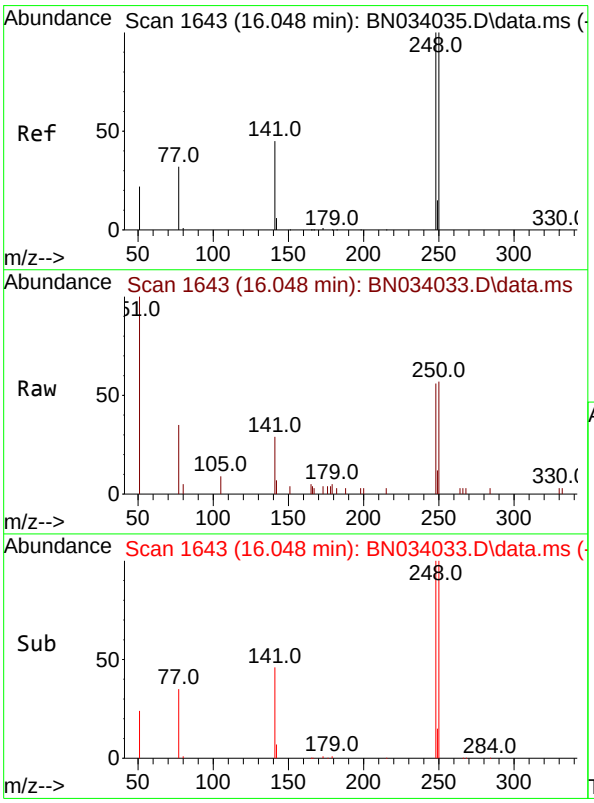
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.842 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:188 Resp: 26716

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.3	7.4	11.0

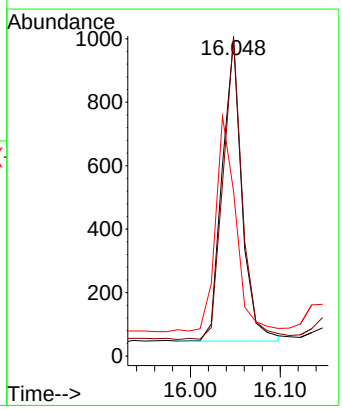


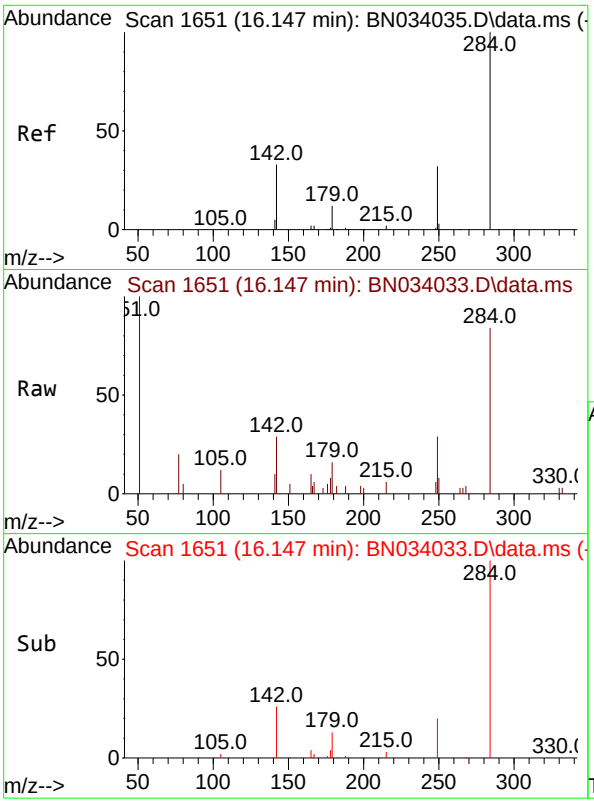


#21
4-Bromophenyl-phenylether
Concen: 0.097 ng
RT: 16.048 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:248 Resp: 1455

Ion	Ratio	Lower	Upper
248	100		
250	101.2	80.5	120.7
141	52.1	37.1	55.7



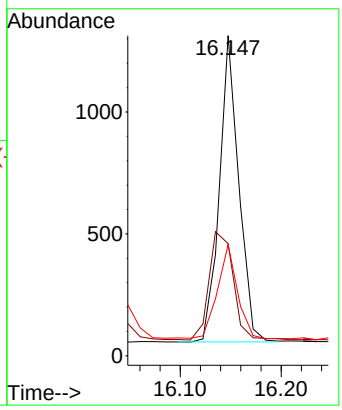


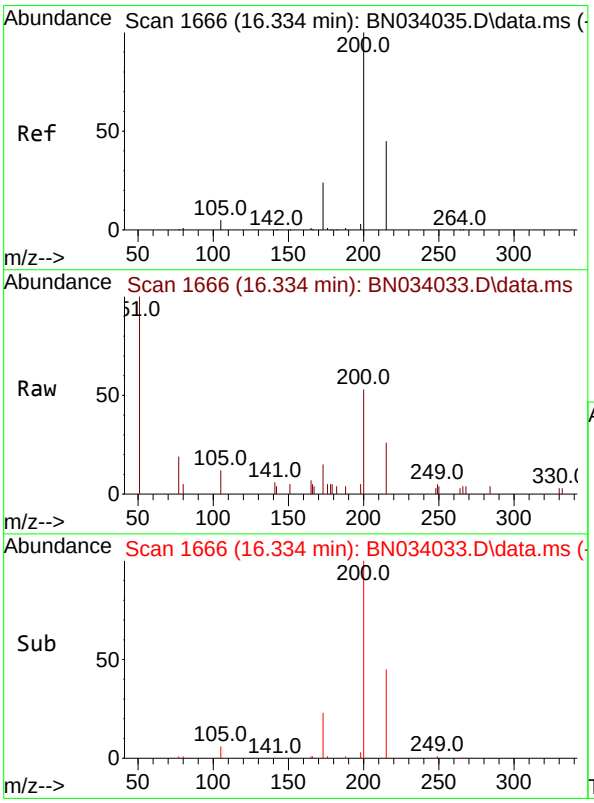
#22
Hexachlorobenzene
Concen: 0.099 ng
RT: 16.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:284 Resp: 1671

Ion	Ratio	Lower	Upper
284	100		
142	43.2	34.5	51.7
249	31.7	25.8	38.6

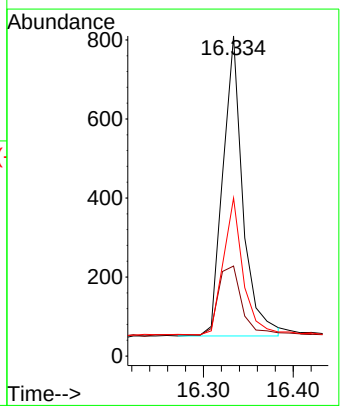


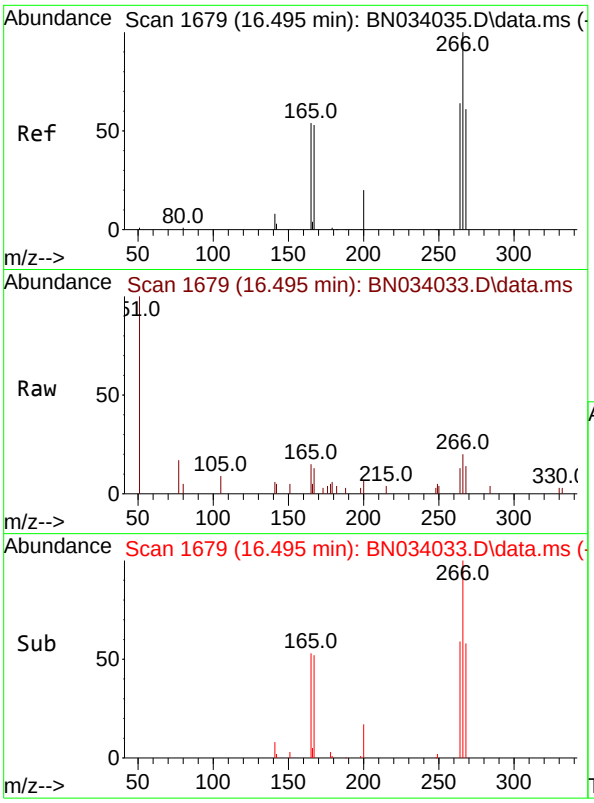


#23
Atrazine
Concen: 0.094 ng
RT: 16.334 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:200 Resp: 1169

Ion	Ratio	Lower	Upper
200	100		
173	28.1	20.1	30.1
215	49.4	37.0	55.6



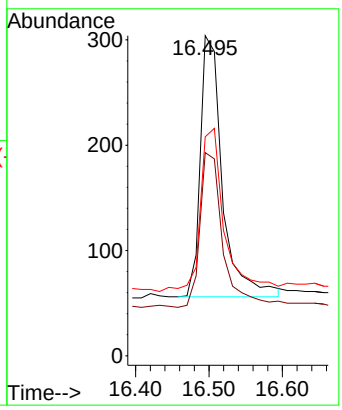


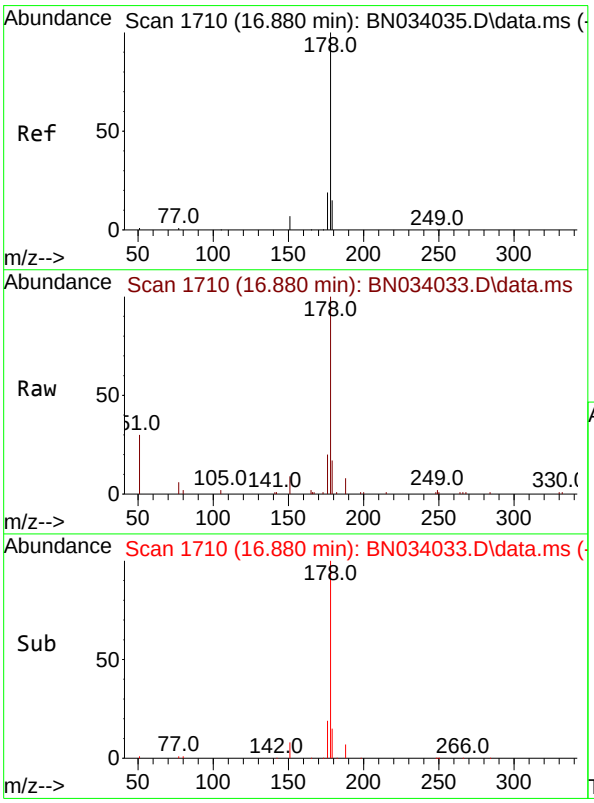
#24
Pentachlorophenol
Concen: 0.093 ng
RT: 16.495 min Scan# 1
Delta R.T. -0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:266 Resp: 518

Ion	Ratio	Lower	Upper
266	100		
264	61.2	50.2	75.2
268	68.0	51.0	76.4

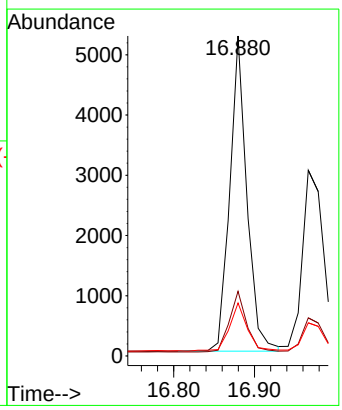


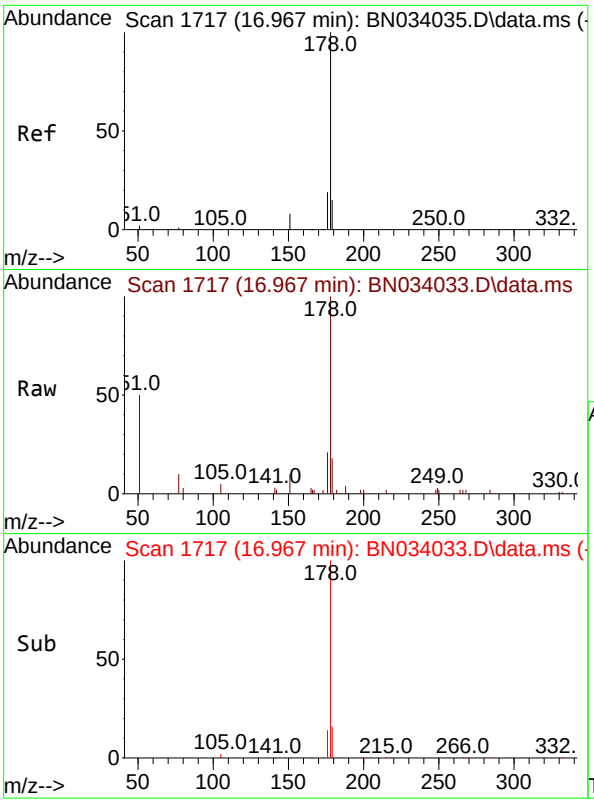


#25
Phenanthrene
Concen: 0.100 ng
RT: 16.880 min Scan# 1710
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:178 Resp: 7703

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.9	12.1	18.1



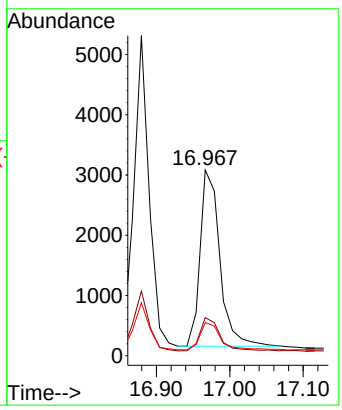


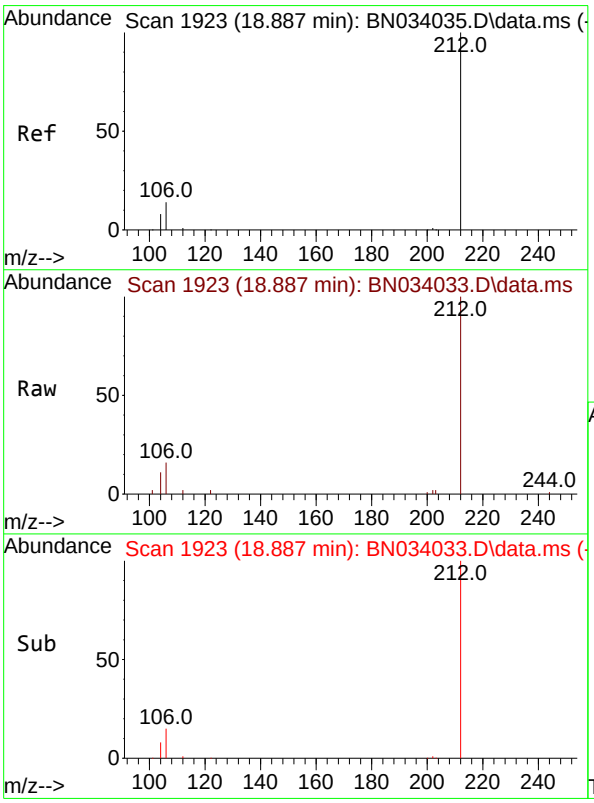
#26
Anthracene
Concen: 0.087 ng
RT: 16.967 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:178 Resp: 5457

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.0	22.6
179	15.7	12.2	18.4

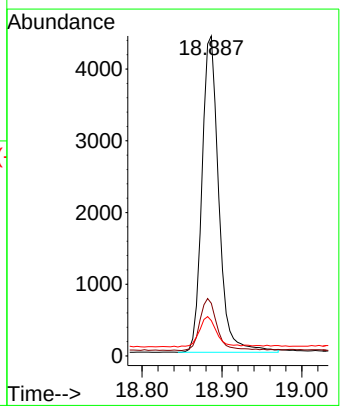


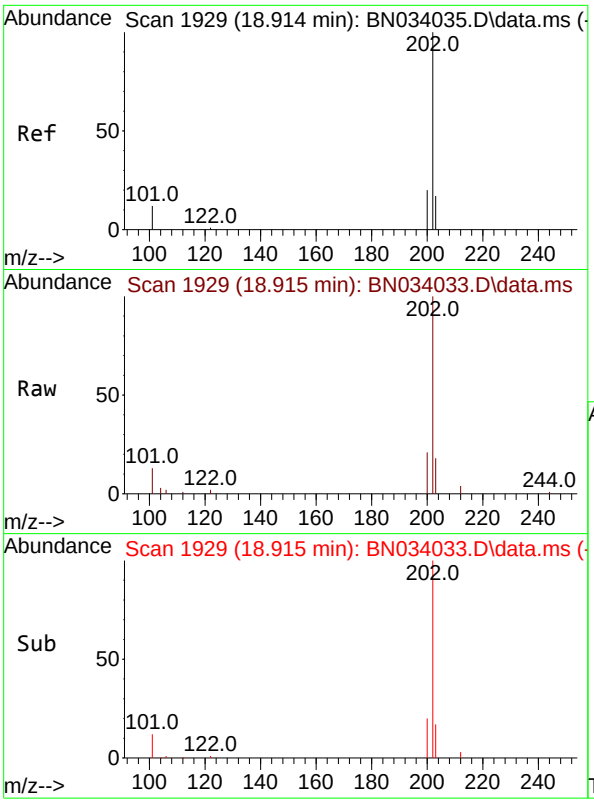


#27
Fluoranthene-d10
Concen: 0.096 ng
RT: 18.887 min Scan# 1923
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:212 Resp: 6448

Ion	Ratio	Lower	Upper
212	100		
106	16.8	13.4	20.2
104	9.7	7.8	11.6



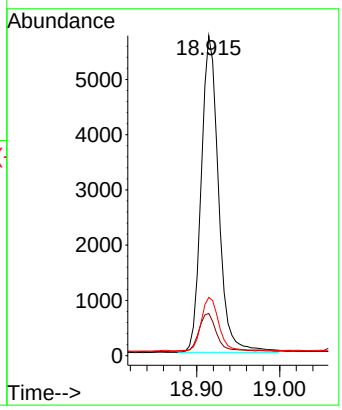


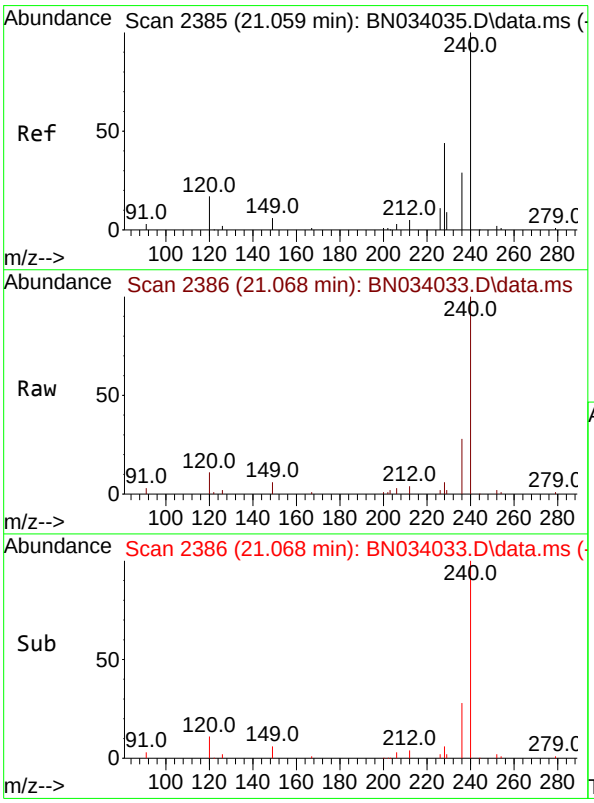
#28
Fluoranthene
Concen: 0.094 ng
RT: 18.915 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:202 Resp: 8339

Ion	Ratio	Lower	Upper
202	100		
101	13.1	10.1	15.1
203	17.0	13.6	20.4

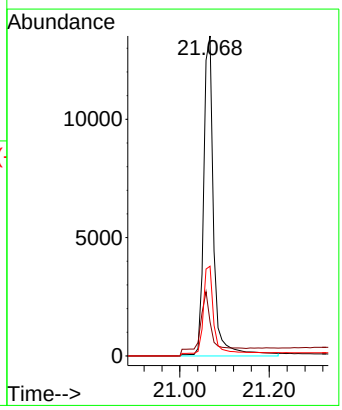


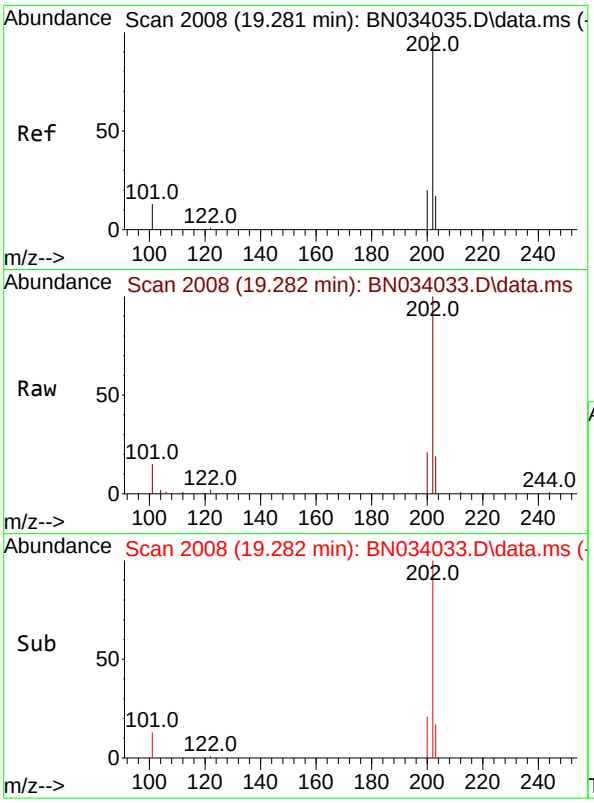


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.068 min Scan# 2386
Delta R.T. 0.009 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:240 Resp: 20245

Ion	Ratio	Lower	Upper
240	100		
120	10.7	13.5	20.3#
236	28.0	23.4	35.0



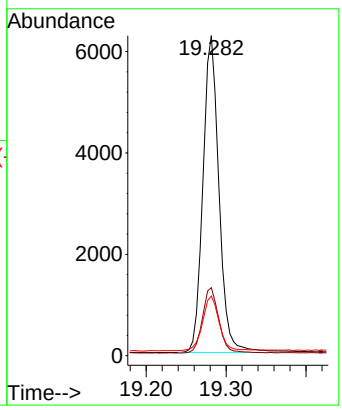


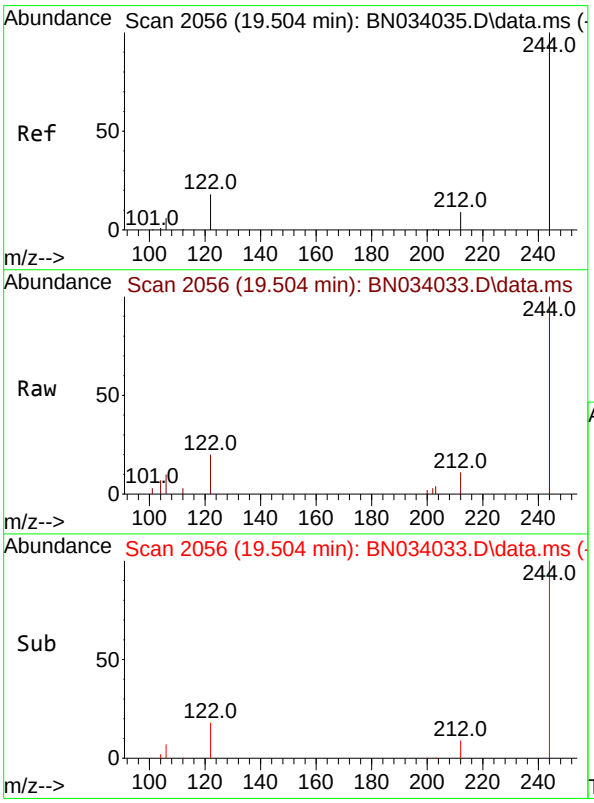
#30
Pyrene
Concen: 0.102 ng
RT: 19.282 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:202 Resp: 8705

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	25.0
203	18.0	14.3	21.5

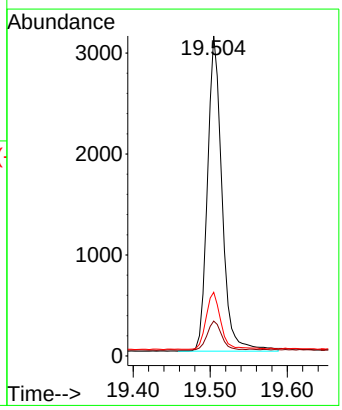


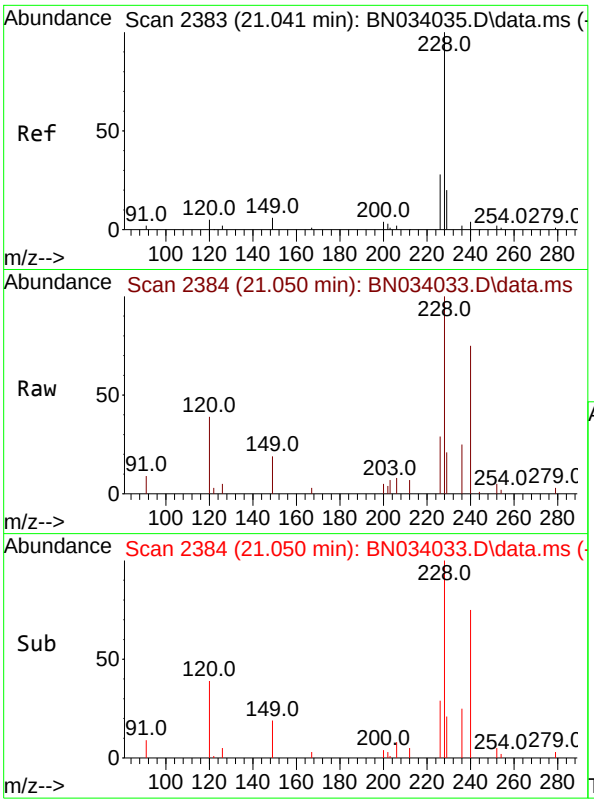


#31
Terphenyl-d14
Concen: 0.101 ng
RT: 19.504 min Scan# 2056
Delta R.T. 0.000 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:244 Resp: 4102

Ion	Ratio	Lower	Upper
244	100		
212	10.9	7.8	11.6
122	19.9	14.8	22.2



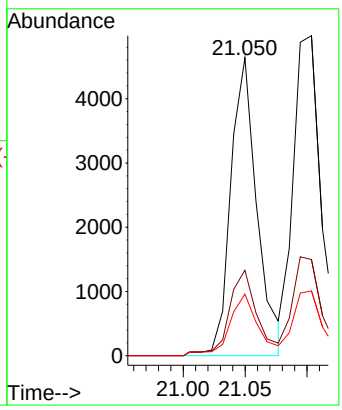


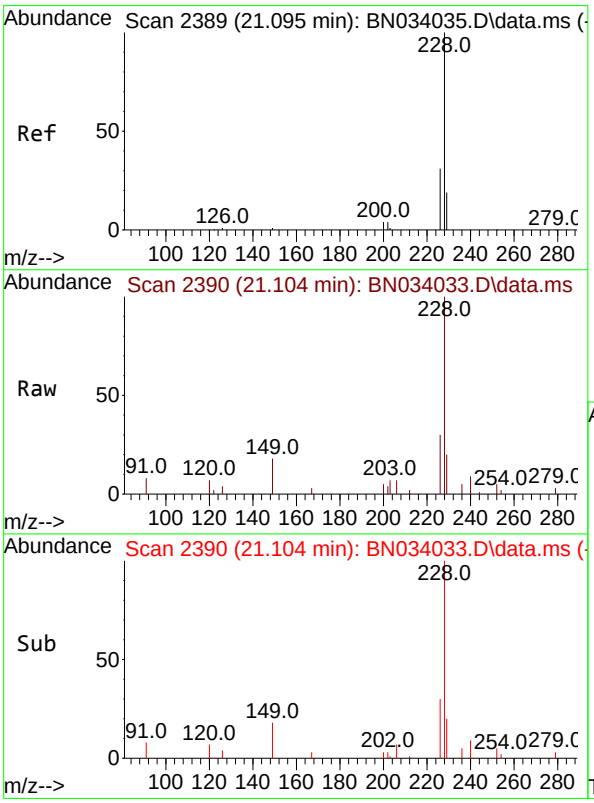
#32
Benzo(a)anthracene
Concen: 0.097 ng
RT: 21.050 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:228 Resp: 6208

Ion	Ratio	Lower	Upper
228	100		
226	28.7	22.3	33.5
229	20.7	15.7	23.5

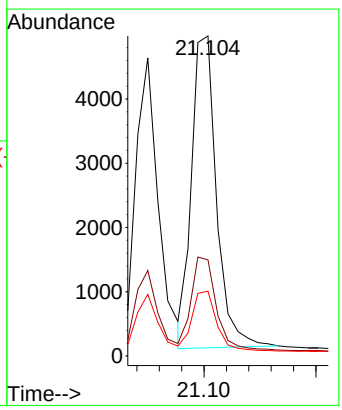


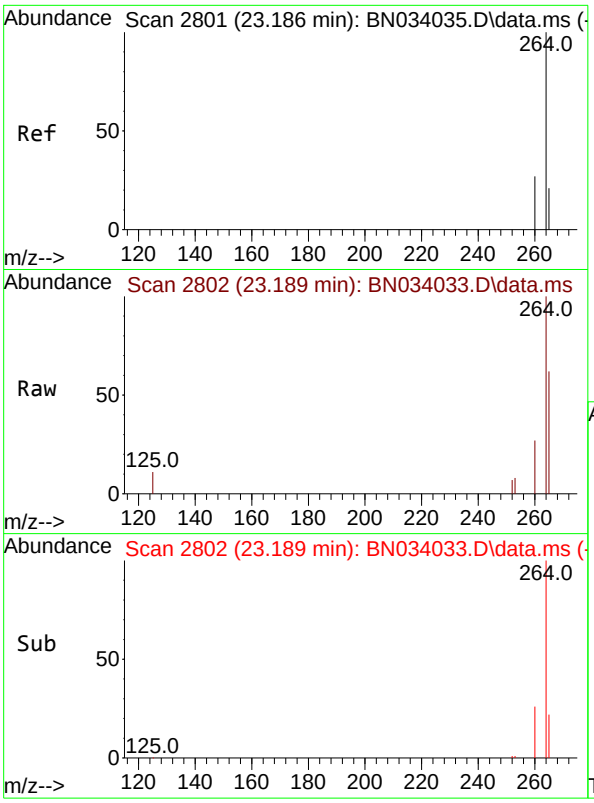


#33
Chrysene
Concen: 0.098 ng
RT: 21.104 min Scan# 2390
Delta R.T. 0.009 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:228 Resp: 7525

Ion	Ratio	Lower	Upper
228	100		
226	30.0	24.6	37.0
229	20.2	15.5	23.3



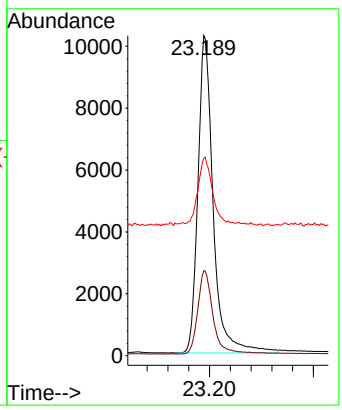


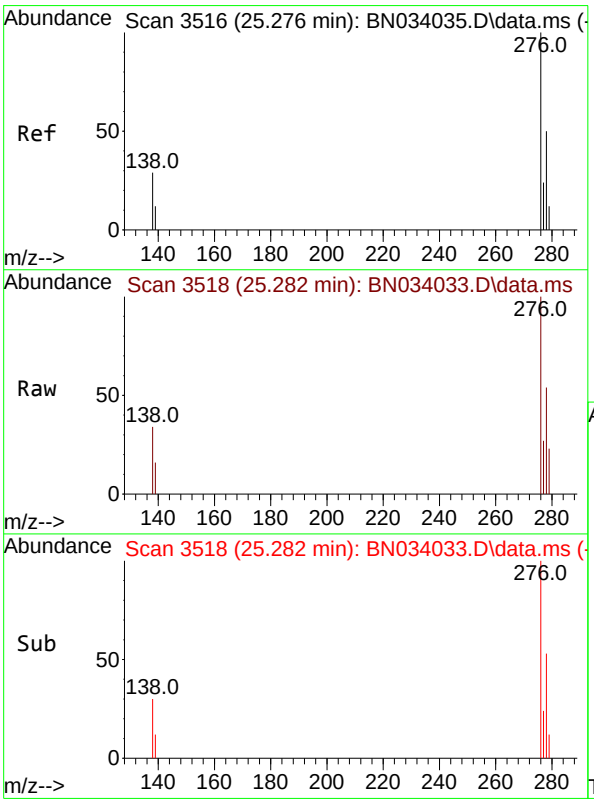
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.189 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:264 Resp: 20942

Ion	Ratio	Lower	Upper
264	100		
260	26.5	21.7	32.5
265	61.8	52.1	78.1

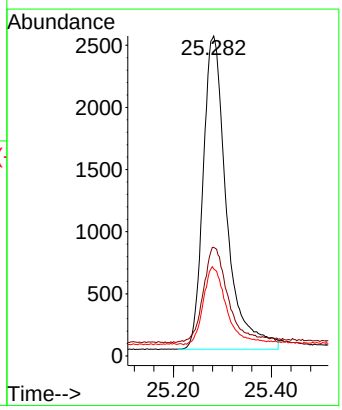


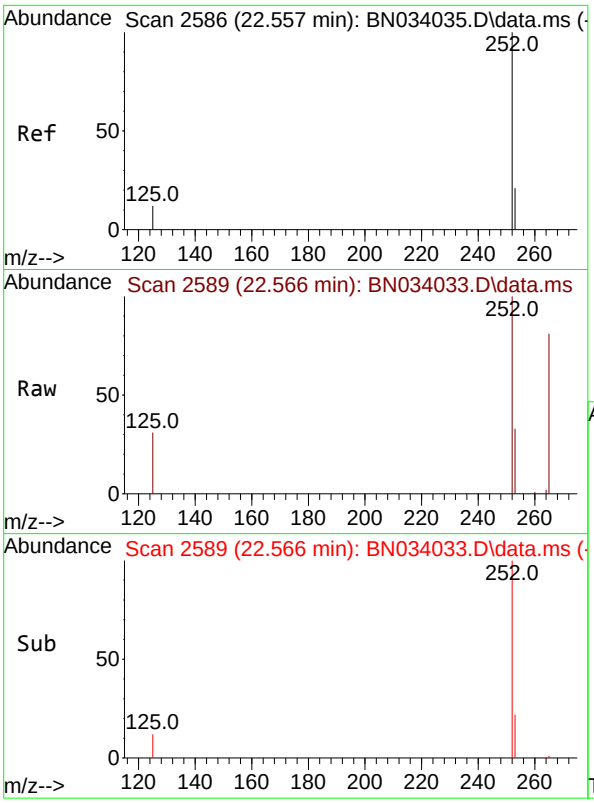


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.093 ng
RT: 25.282 min Scan# 3518
Delta R.T. 0.006 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:276 Resp: 8343

Ion	Ratio	Lower	Upper
276	100		
138	31.5	25.9	38.9
277	24.8	19.7	29.5



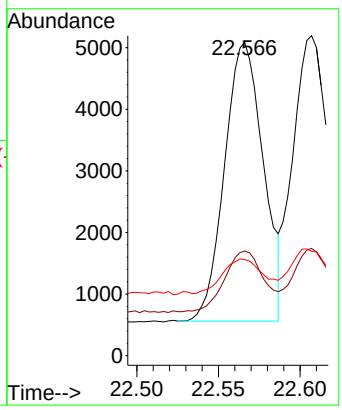


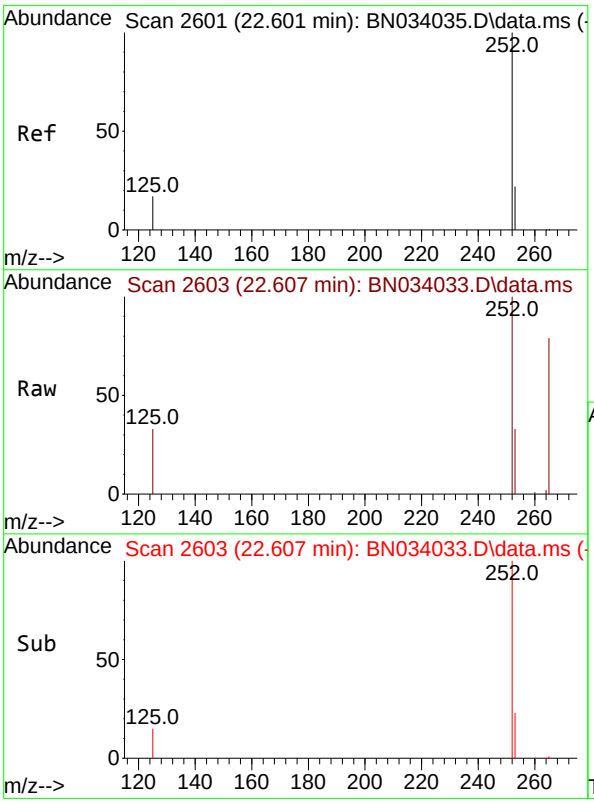
#37
Benzo(b)fluoranthene
Concen: 0.091 ng
RT: 22.566 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 7469

Ion	Ratio	Lower	Upper
252	100		
253	33.4	19.6	29.4#
125	30.7	13.8	20.8#

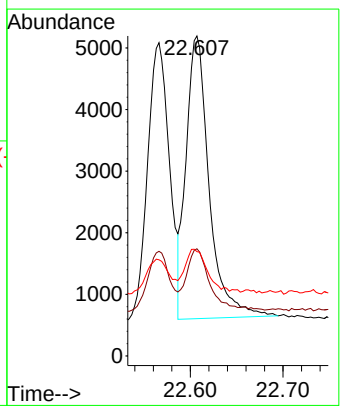


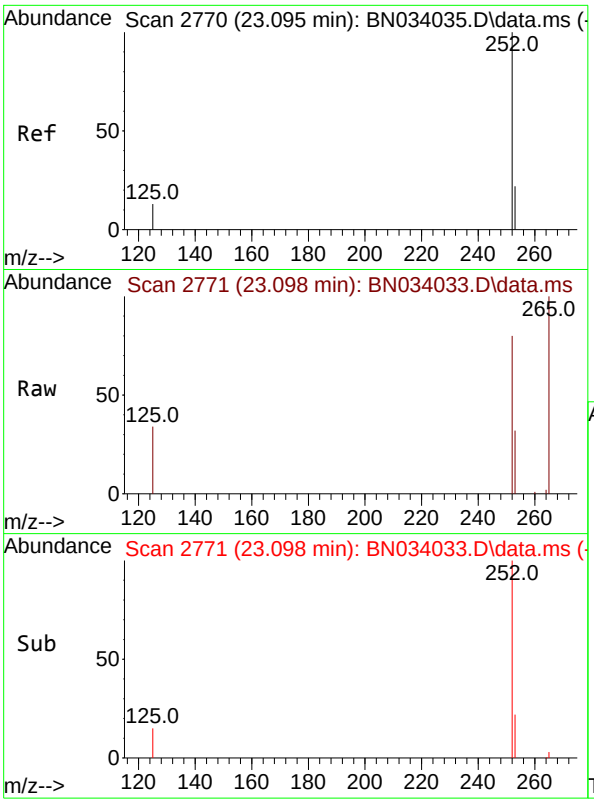


#38
Benzo(k)fluoranthene
Concen: 0.092 ng
RT: 22.607 min Scan# 2603
Delta R.T. 0.006 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:252 Resp: 7926

Ion	Ratio	Lower	Upper
252	100		
253	33.5	20.1	30.1#
125	32.6	16.8	25.2#



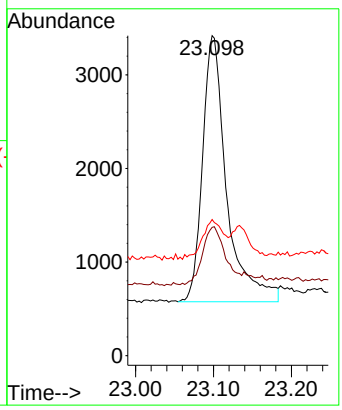


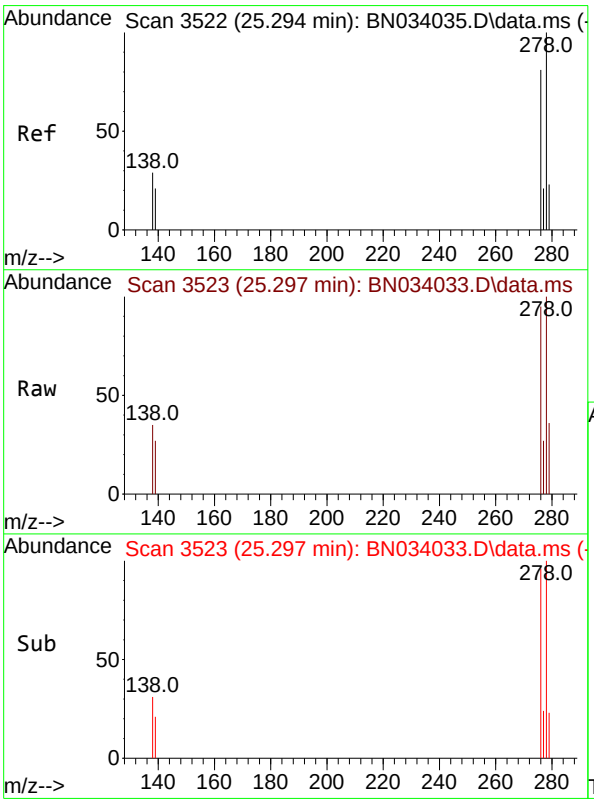
#39
Benzo(a)pyrene
Concen: 0.091 ng
RT: 23.098 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:252 Resp: 6111

Ion	Ratio	Lower	Upper
252	100		
253	40.1	21.8	32.8#
125	42.6	17.5	26.3#

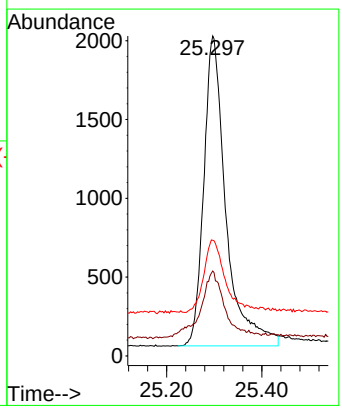


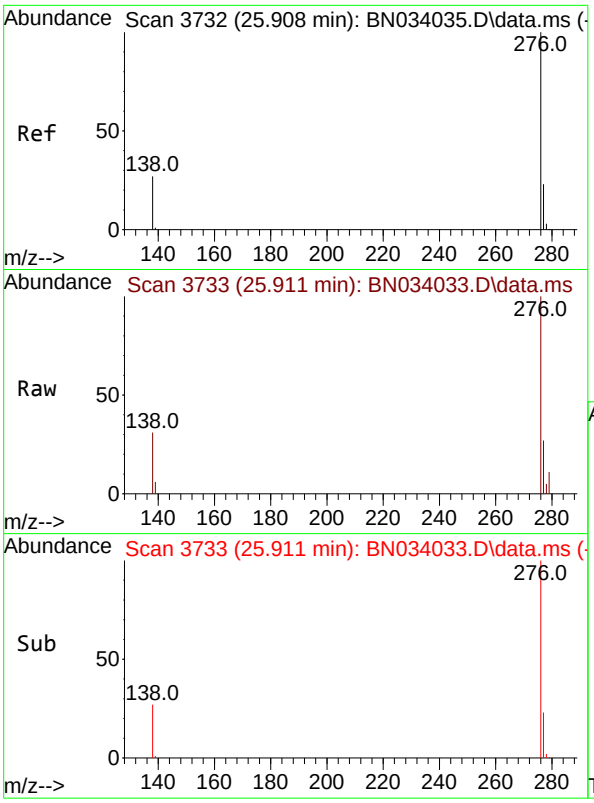


#40
Dibenzo(a,h)anthracene
Concen: 0.091 ng
RT: 25.297 min Scan# 3523
Delta R.T. 0.003 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Tgt Ion:278 Resp: 6343

Ion	Ratio	Lower	Upper
278	100		
139	26.6	17.8	26.8
279	36.2	21.0	31.6#



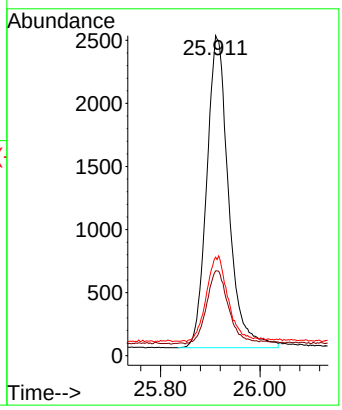


#41
Benzo(g,h,i)perylene
Concen: 0.097 ng
RT: 25.911 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN034033.D
Acq: 18 Sep 2024 11:53

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.1

Tgt Ion:276 Resp: 7573

Ion	Ratio	Lower	Upper
276	100		
277	26.5	19.3	28.9
138	30.8	22.6	34.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034034.D
Acq On : 18 Sep 2024 12:29
Operator : JU/RC
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Sep 18 16:14:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.437	152	7016	0.400	ng		0.00
7) Naphthalene-d8	10.197	136	20105	0.400	ng		0.00
13) Acenaphthene-d10	14.082	164	11454	0.400	ng		0.00
19) Phenanthrene-d10	16.842	188	25709	0.400	ng		0.00
29) Chrysene-d12	21.059	240	19925	0.400	ng		0.00
35) Perylene-d12	23.189	264	20082	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.075	112	4058	0.204	ng		0.00
5) Phenol-d6	6.635	99	4263	0.184	ng		0.00
8) Nitrobenzene-d5	8.574	82	2705	0.176	ng		0.00
11) 2-Methylnaphthalene-d10	11.797	152	5570	0.188	ng		0.00
14) 2,4,6-Tribromophenol	15.589	330	896	0.173	ng		0.00
15) 2-Fluorobiphenyl	12.703	172	9027	0.194	ng		0.00
27) Fluoranthene-d10	18.887	212	12178	0.188	ng		0.00
31) Terphenyl-d14	19.505	244	7642	0.192	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.082	88	1881	0.214	ng		96
3) n-Nitrosodimethylamine	3.378	42	2003	0.201	ng	#	96
6) bis(2-Chloroethyl)ether	6.881	93	3843	0.188	ng		98
9) Naphthalene	10.240	128	10671	0.193	ng		99
10) Hexachlorobutadiene	10.539	225	2086	0.201	ng	#	100
12) 2-Methylnaphthalene	11.869	142	6747	0.188	ng		99
16) Acenaphthylene	13.793	152	8658	0.177	ng		99
17) Acenaphthene	14.146	154	6769	0.192	ng		100
18) Fluorene	15.140	166	8809	0.191	ng		100
20) 4,6-Dinitro-2-methylph...	15.236	198	541	0.251	ng	#	1
21) 4-Bromophenyl-phenylether	16.048	248	2704	0.187	ng		96
22) Hexachlorobenzene	16.147	284	3160	0.195	ng		100
23) Atrazine	16.334	200	2189	0.183	ng		98
24) Pentachlorophenol	16.507	266	836	0.156	ng		99
25) Phenanthrene	16.880	178	14012	0.190	ng		100
26) Anthracene	16.979	178	10619	0.176	ng		99
28) Fluoranthene	18.915	202	15759	0.184	ng		99
30) Pyrene	19.282	202	16347	0.194	ng		100
32) Benzo(a)anthracene	21.050	228	11821	0.188	ng		99
33) Chrysene	21.095	228	14045	0.187	ng		99
34) Bis(2-ethylhexyl)phtha...	21.005	149	6255	0.238	ng	#	97
36) Indeno(1,2,3-cd)pyrene	25.279	276	15490	0.180	ng		99
37) Benzo(b)fluoranthene	22.563	252	14213	0.181	ng	#	92
38) Benzo(k)fluoranthene	22.604	252	15443	0.187	ng		94
39) Benzo(a)pyrene	23.098	252	11266	0.176	ng	#	88
40) Dibenzo(a,h)anthracene	25.297	278	11898	0.178	ng		94
41) Benzo(g,h,i)perylene	25.914	276	14133	0.188	ng		98

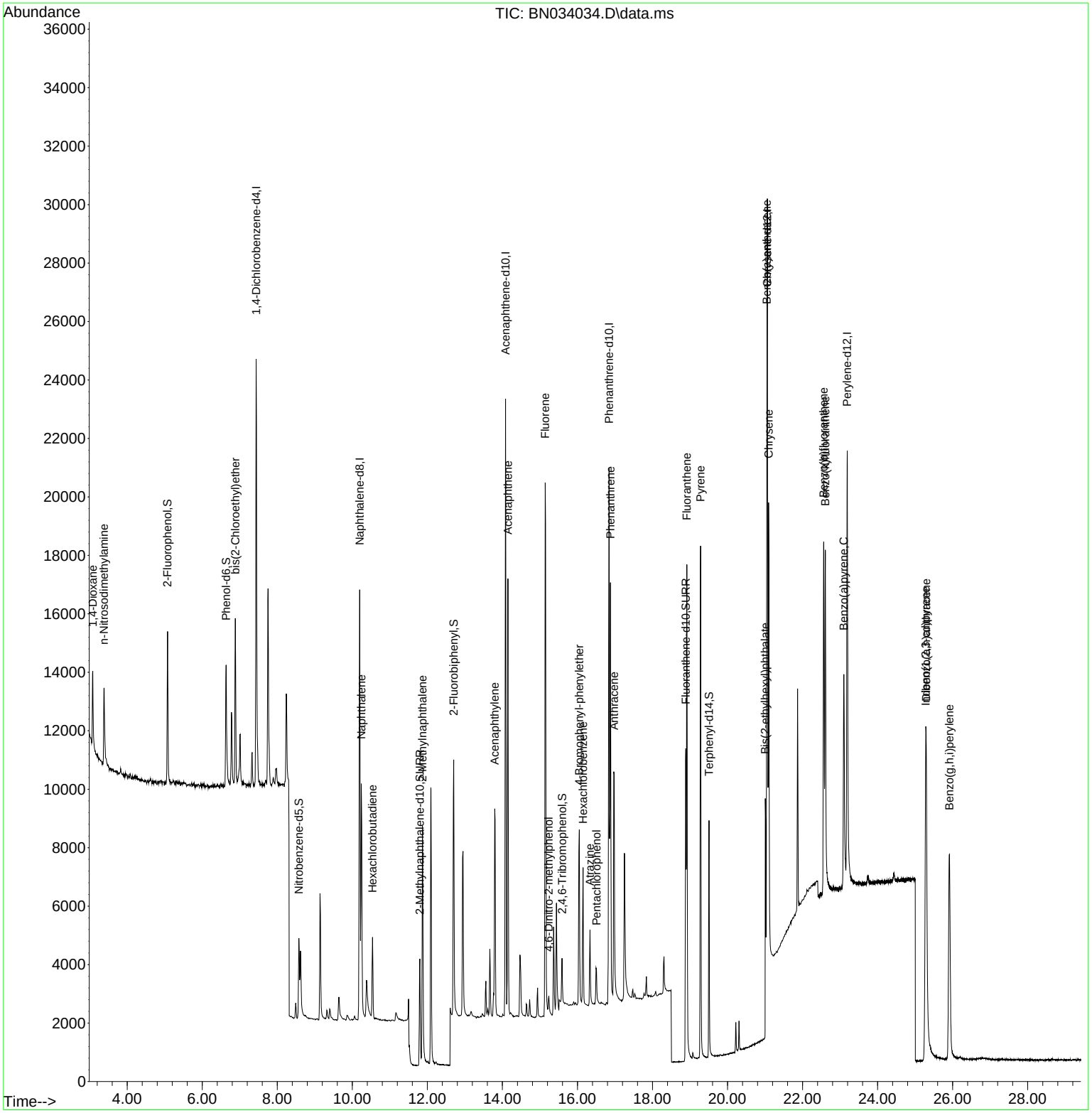
(#) = qualifier out of range (m) = manual integration (+) = signals summed

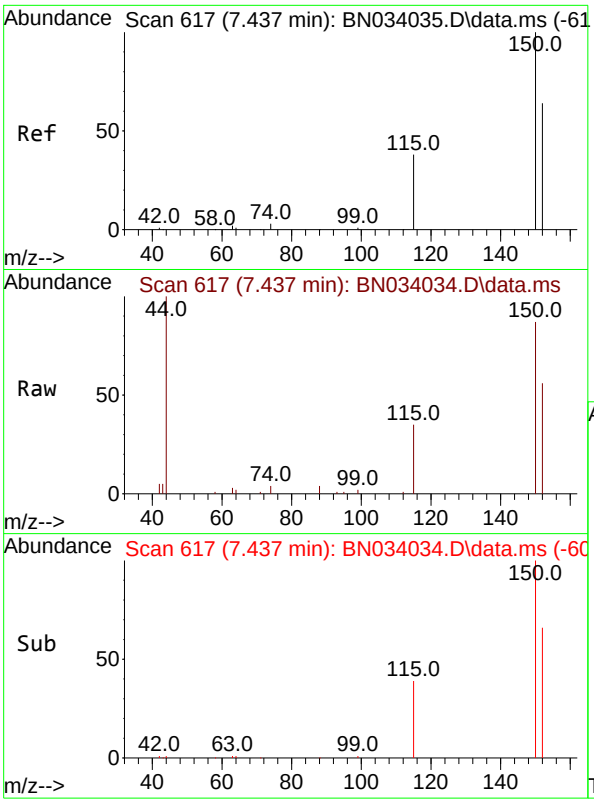
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034034.D
Acq On : 18 Sep 2024 12:29
Operator : JU/RC
Sample : SSTDICC0.2
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Quant Time: Sep 18 16:14:05 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



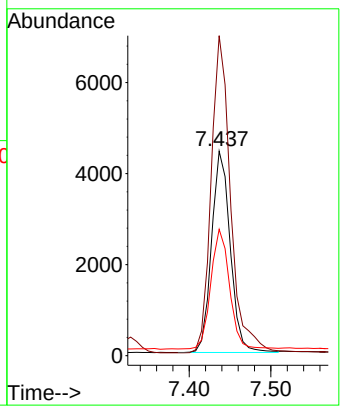


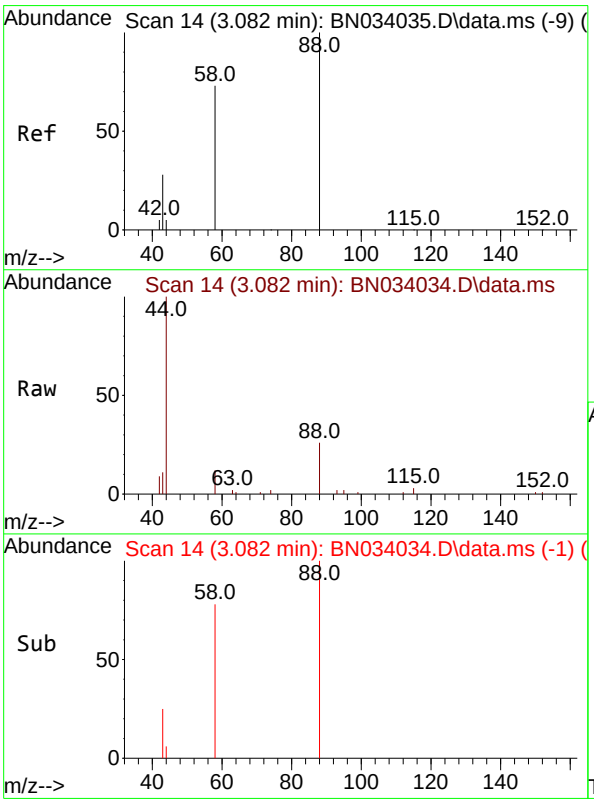
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.437 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 7016

Ion	Ratio	Lower	Upper
152	100		
150	156.5	124.6	187.0
115	61.8	50.0	75.0

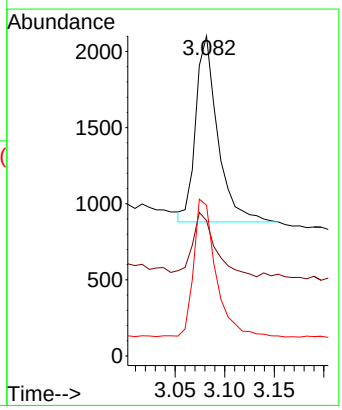


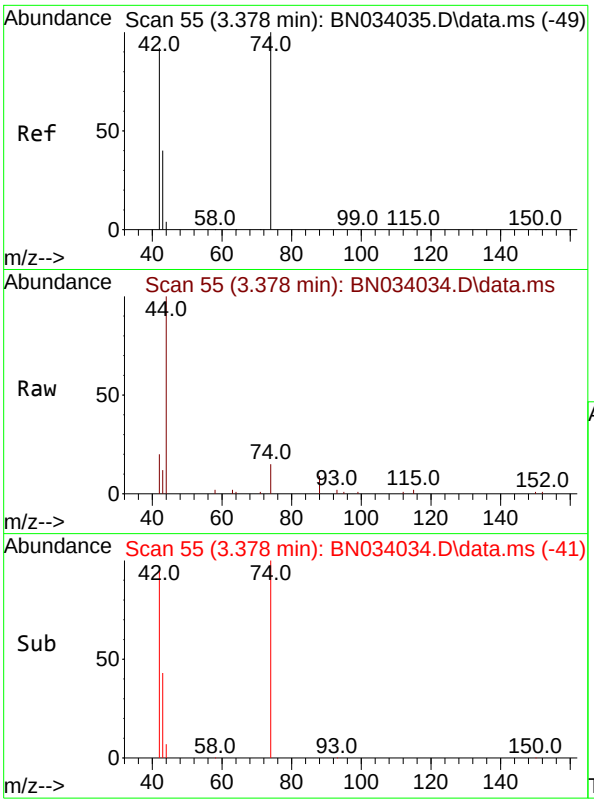


#2
1,4-Dioxane
Concen: 0.214 ng
RT: 3.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion: 88 Resp: 1881

Ion	Ratio	Lower	Upper
88	100		
43	36.7	25.8	38.8
58	75.0	58.8	88.2



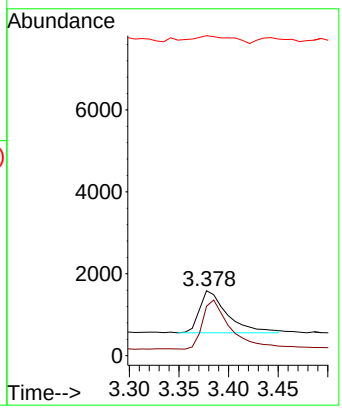


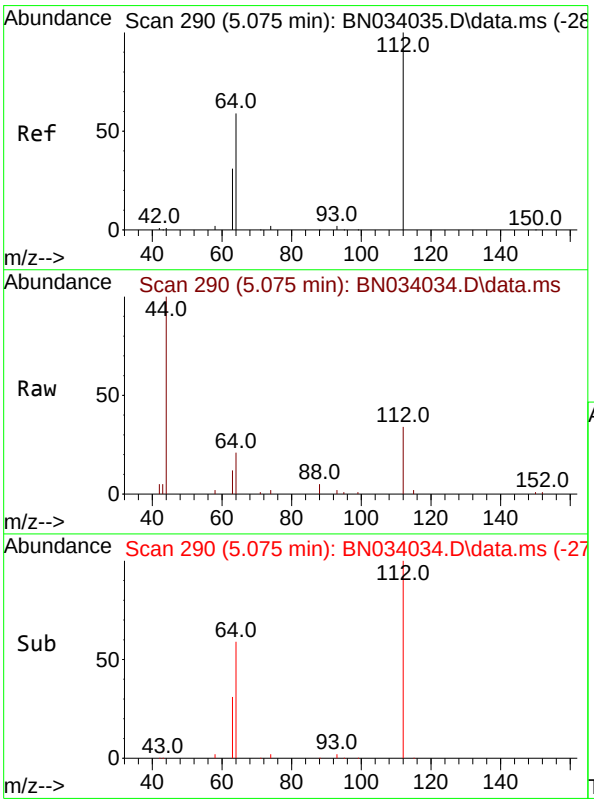
#3
n-Nitrosodimethylamine
Concen: 0.201 ng
RT: 3.378 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 42 Resp: 2003

Ion	Ratio	Lower	Upper
42	100		
74	116.4	94.6	142.0
44	23.9	12.4	18.6#

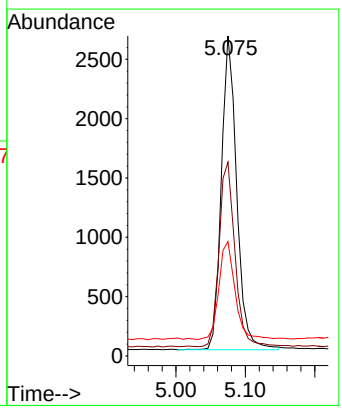


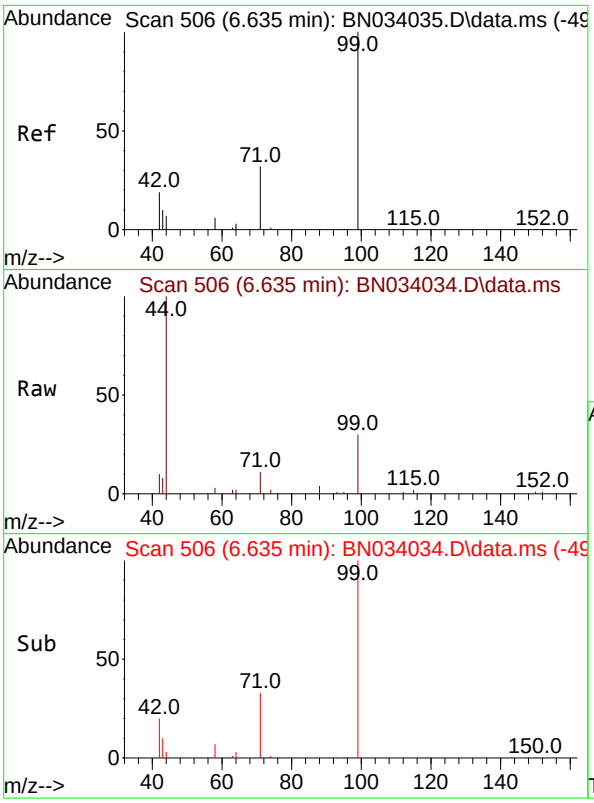


#4
2-Fluorophenol
Concen: 0.204 ng
RT: 5.075 min Scan# 290
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:112 Resp: 4058

Ion	Ratio	Lower	Upper
112	100		
64	60.9	48.6	72.8
63	32.8	25.6	38.4



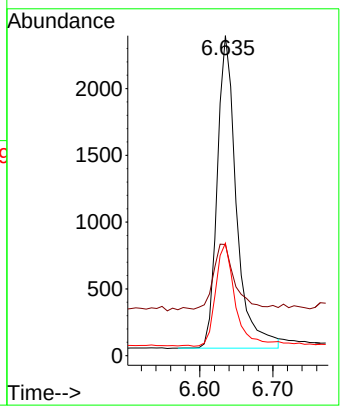


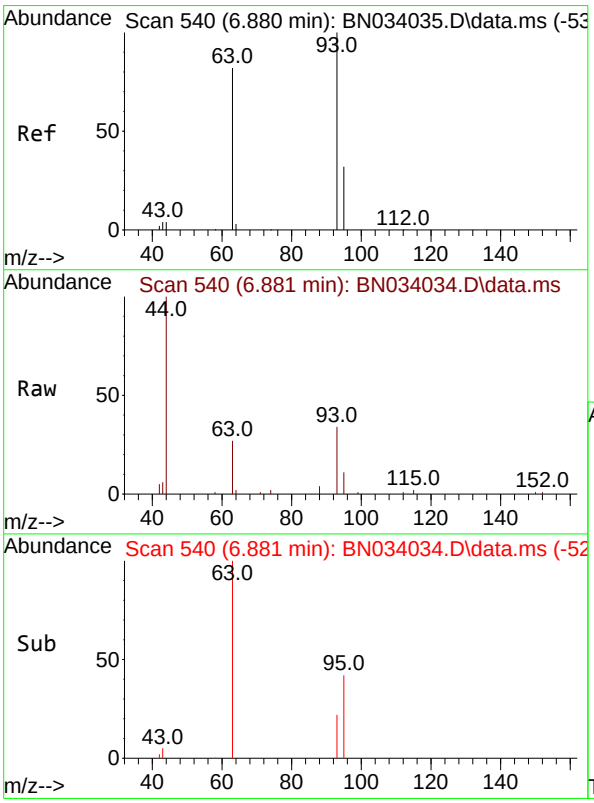
#5
Phenol-d6
Concen: 0.184 ng
RT: 6.635 min Scan# 5(
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion: 99 Resp: 4263

Ion	Ratio	Lower	Upper
99	100		
42	23.6	17.8	26.8
71	33.2	26.2	39.2

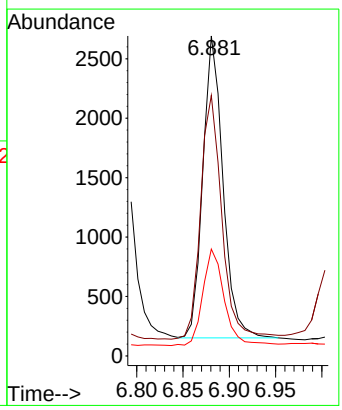


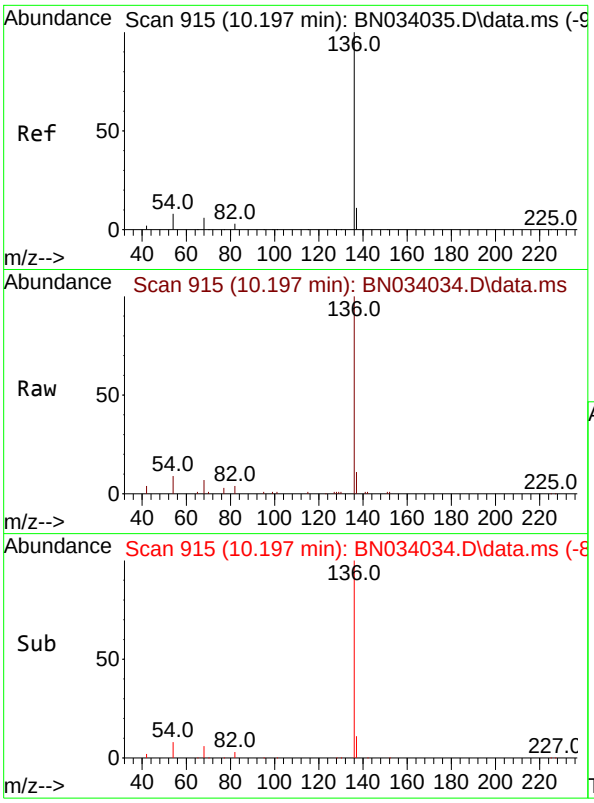


#6
bis(2-Chloroethyl)ether
Concen: 0.188 ng
RT: 6.881 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion: 93 Resp: 3843

Ion	Ratio	Lower	Upper
93	100		
63	85.8	67.3	100.9
95	34.1	26.8	40.2



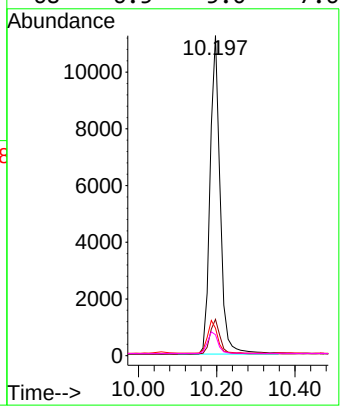


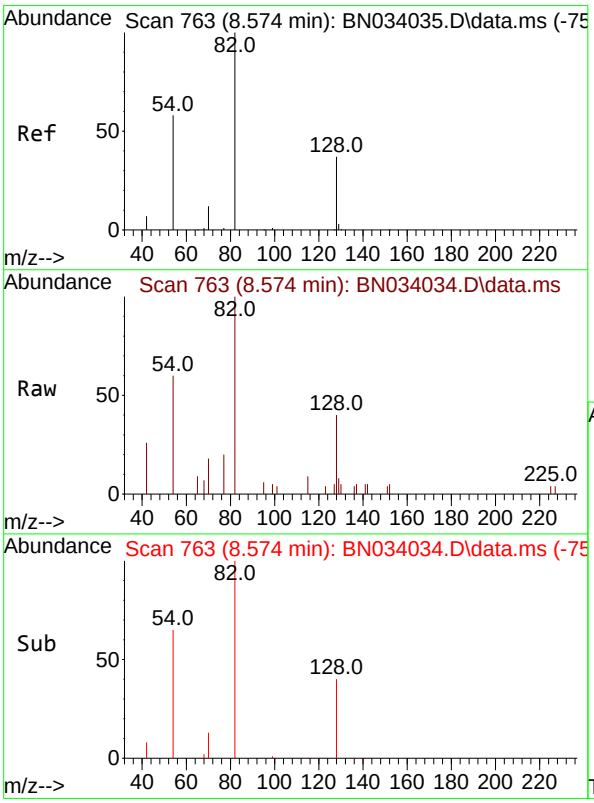
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.197 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:136 Resp: 20105

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	8.6	6.8	10.2
68	6.5	5.0	7.6

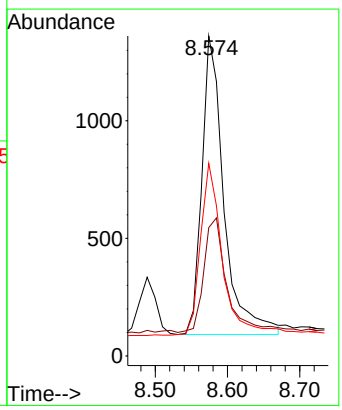


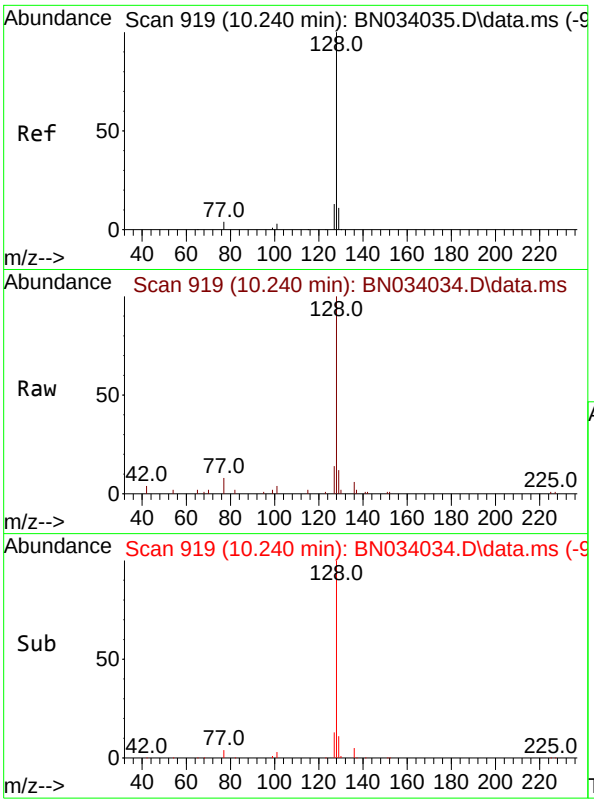


#8
Nitrobenzene-d5
Concen: 0.176 ng
RT: 8.574 min Scan# 763
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion: 82 Resp: 2705

Ion	Ratio	Lower	Upper
82	100		
128	40.1	31.4	47.2
54	60.2	47.4	71.0



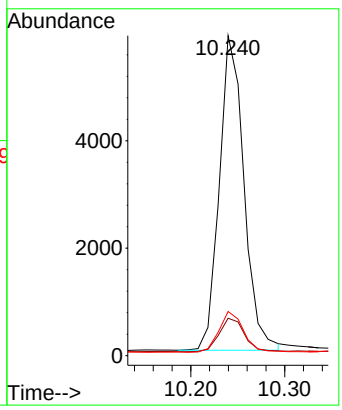


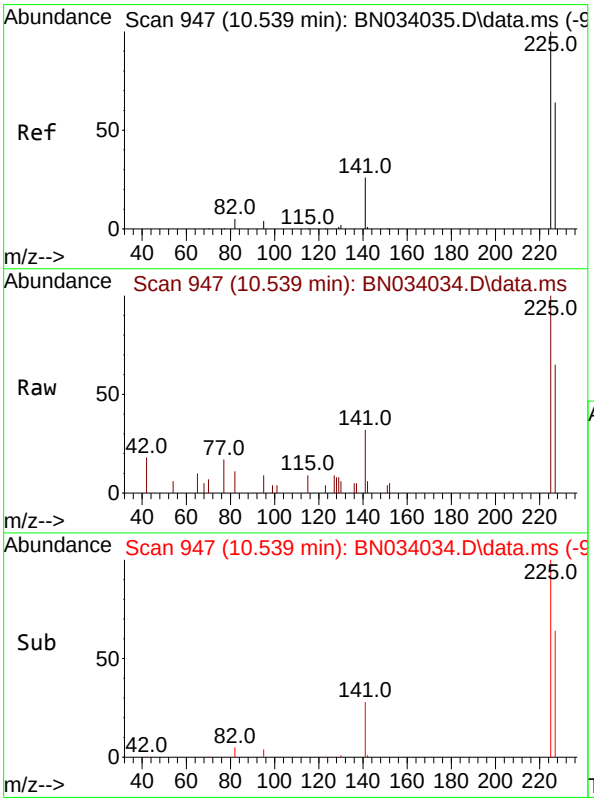
#9
Naphthalene
Concen: 0.193 ng
RT: 10.240 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:128 Resp: 10671

Ion	Ratio	Lower	Upper
128	100		
129	11.7	9.2	13.8
127	13.8	10.7	16.1

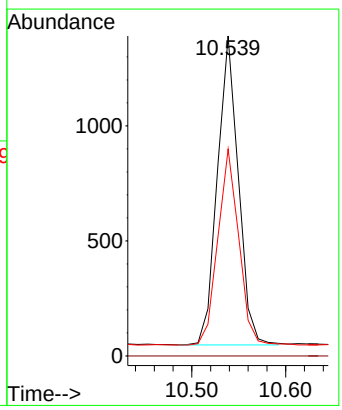


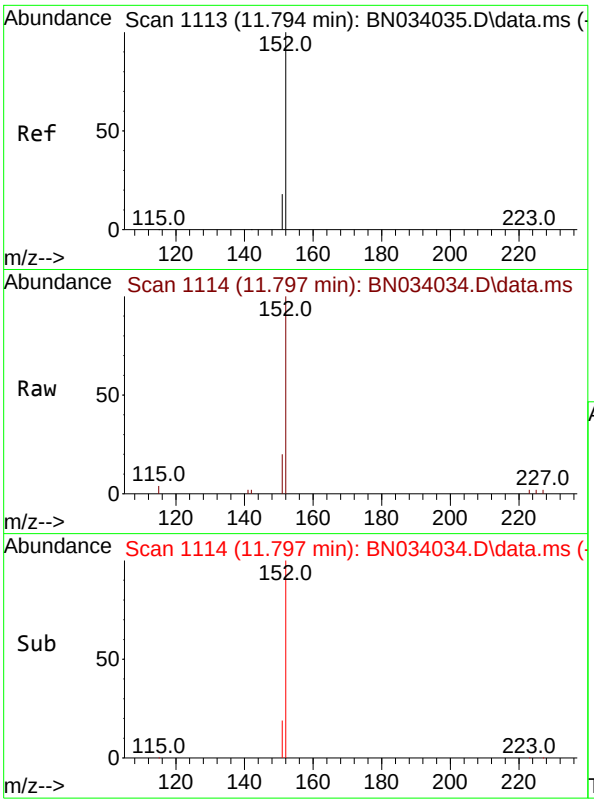


#10
Hexachlorobutadiene
Concen: 0.201 ng
RT: 10.539 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:225 Resp: 2086

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	50.5	75.7



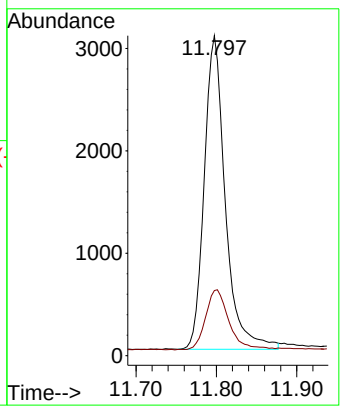


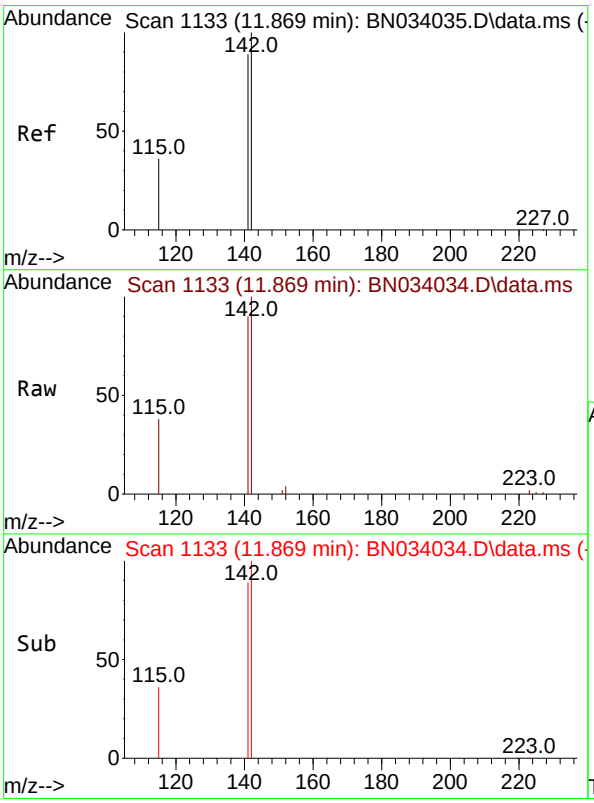
#11
2-Methylnaphthalene-d10
Concen: 0.188 ng
RT: 11.797 min Scan# 11
Delta R.T. 0.004 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:152 Resp: 5570

Ion	Ratio	Lower	Upper
152	100		
151	21.4	16.8	25.2

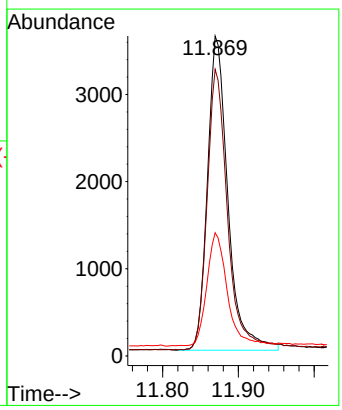


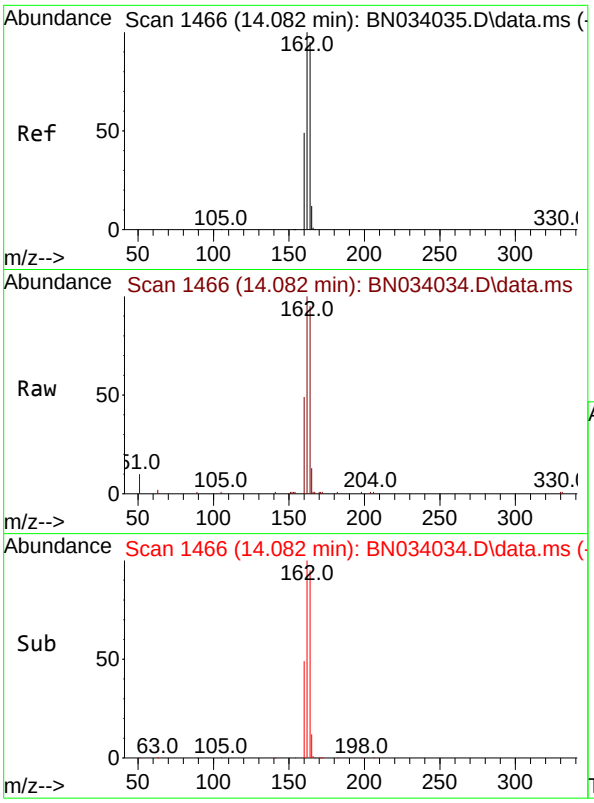


#12
2-Methylnaphthalene
Concen: 0.188 ng
RT: 11.869 min Scan# 1133
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:142 Resp: 6747

Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.6	107.4
115	38.5	30.0	45.0



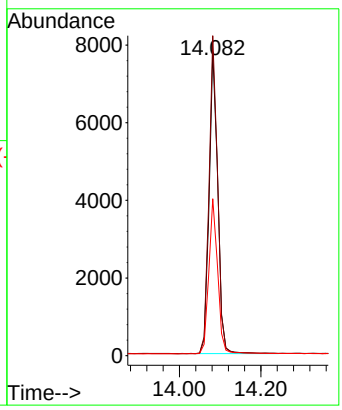


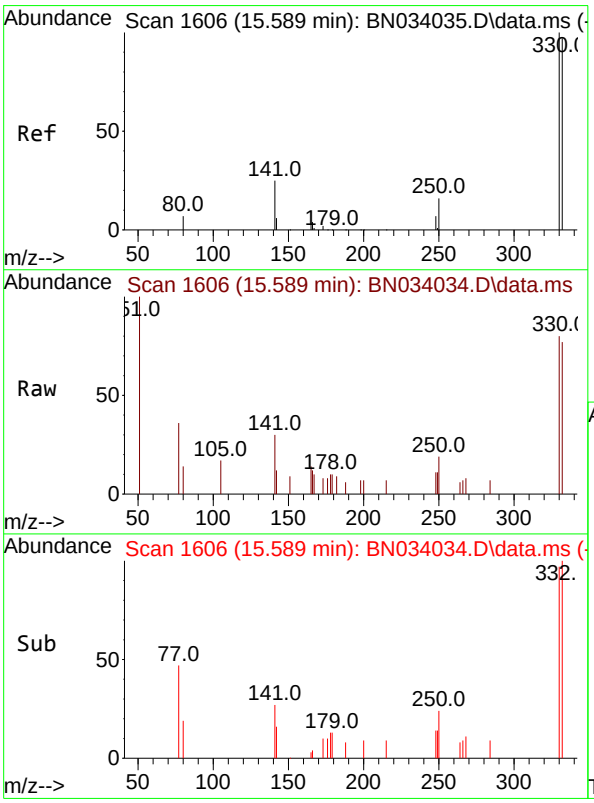
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:164 Resp: 11454

Ion	Ratio	Lower	Upper
164	100		
162	105.3	84.2	126.2
160	51.6	41.7	62.5

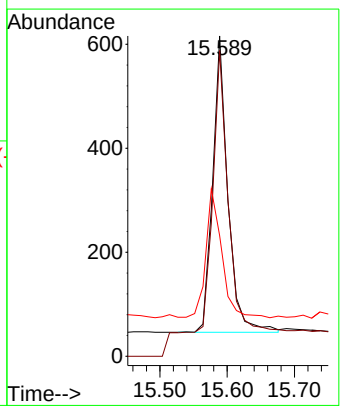


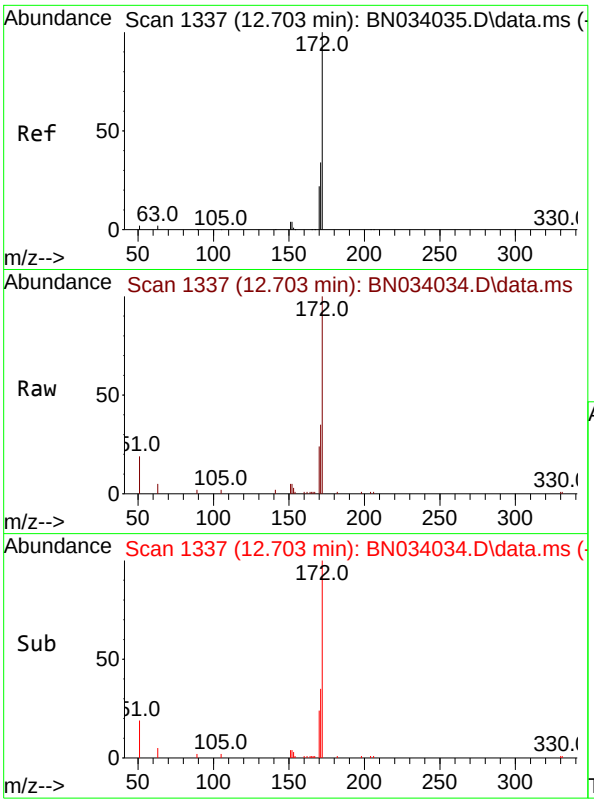


#14
2,4,6-Tribromophenol
Concen: 0.173 ng
RT: 15.589 min Scan# 1606
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:330 Resp: 896

Ion	Ratio	Lower	Upper
330	100		
332	95.5	77.4	116.0
141	45.2	35.9	53.9



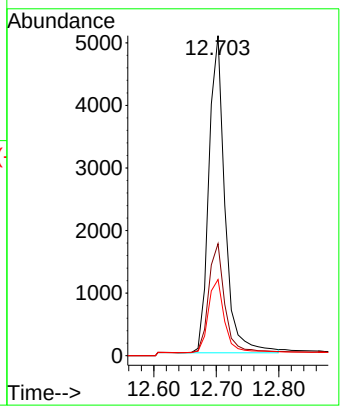


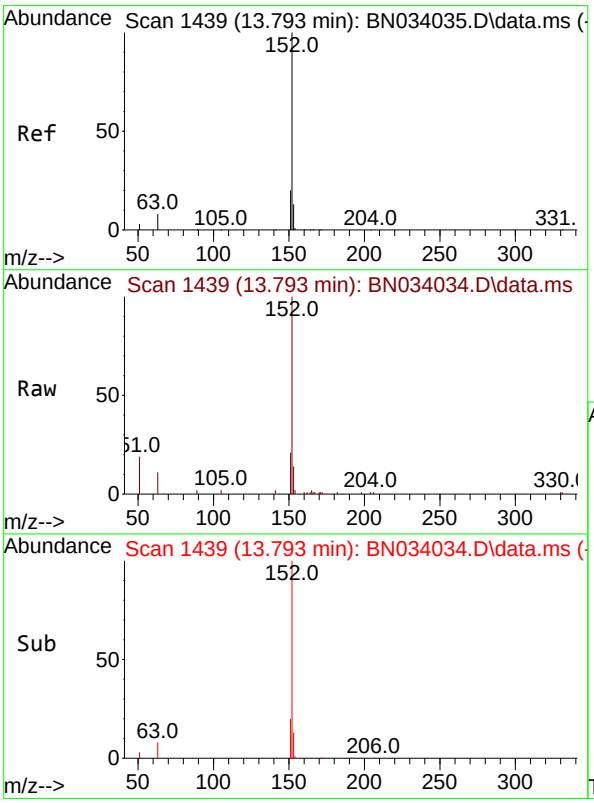
#15
2-Fluorobiphenyl
Concen: 0.194 ng
RT: 12.703 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:172 Resp: 9027

Ion	Ratio	Lower	Upper
172	100		
171	35.0	27.3	40.9
170	23.8	18.1	27.1

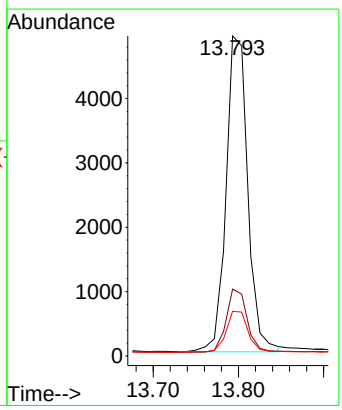


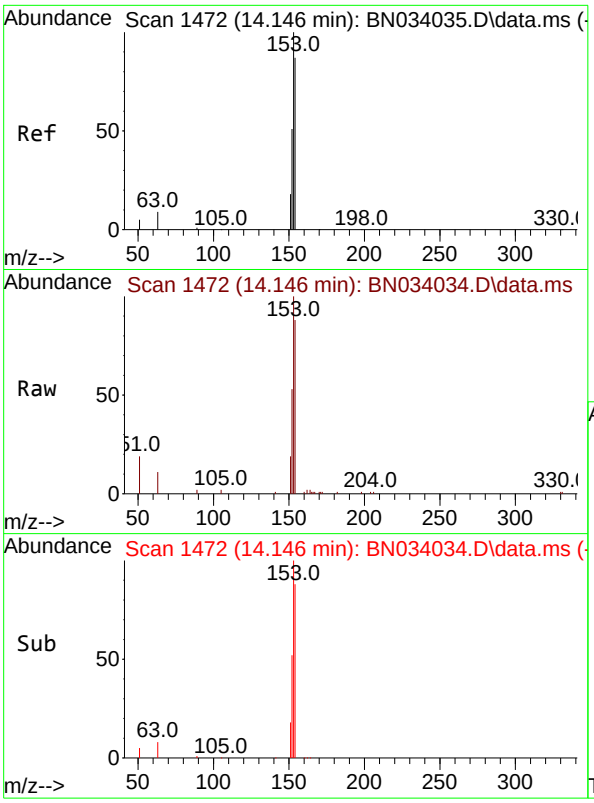


#16
Acenaphthylene
Concen: 0.177 ng
RT: 13.793 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:152 Resp: 8658

Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.6	23.4
153	13.2	10.3	15.5



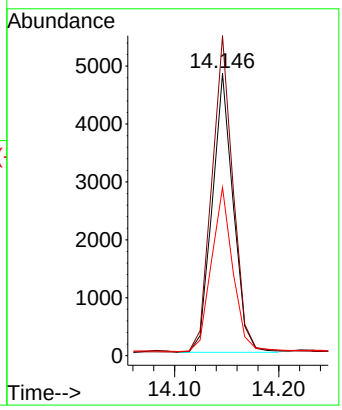


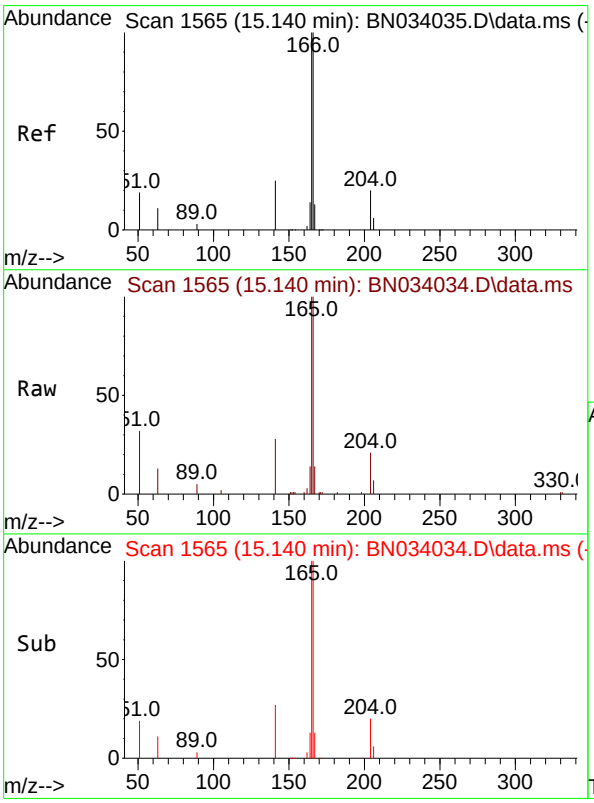
#17
Acenaphthene
Concen: 0.192 ng
RT: 14.146 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:154 Resp: 6769

Ion	Ratio	Lower	Upper
154	100		
153	114.3	91.6	137.4
152	59.5	47.4	71.2

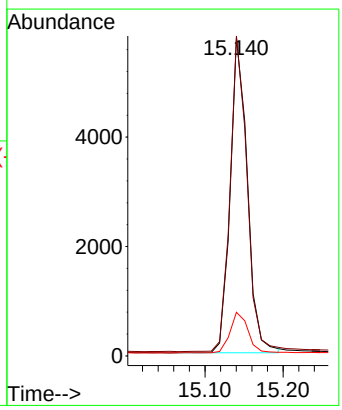


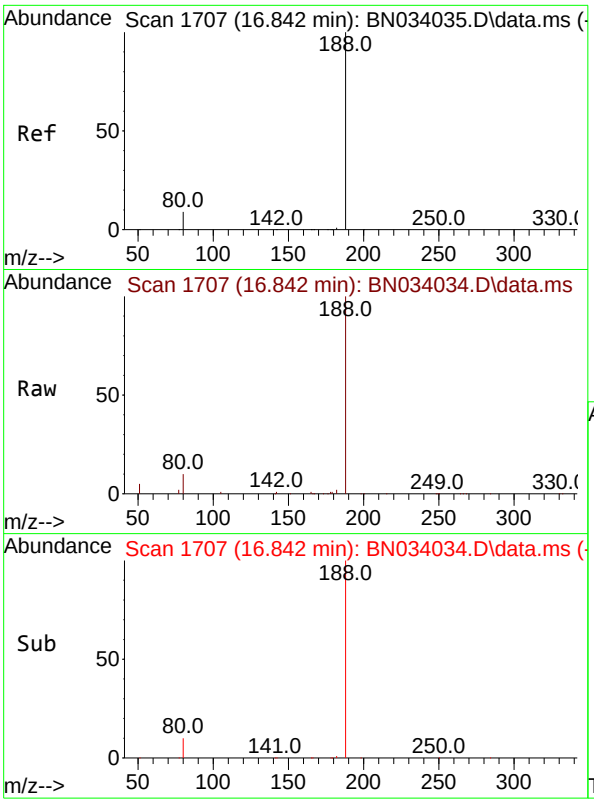


#18
Fluorene
Concen: 0.191 ng
RT: 15.140 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:166 Resp: 8809

Ion	Ratio	Lower	Upper
166	100		
165	98.8	79.1	118.7
167	13.4	10.6	15.8



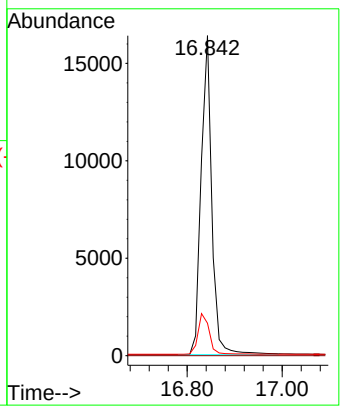


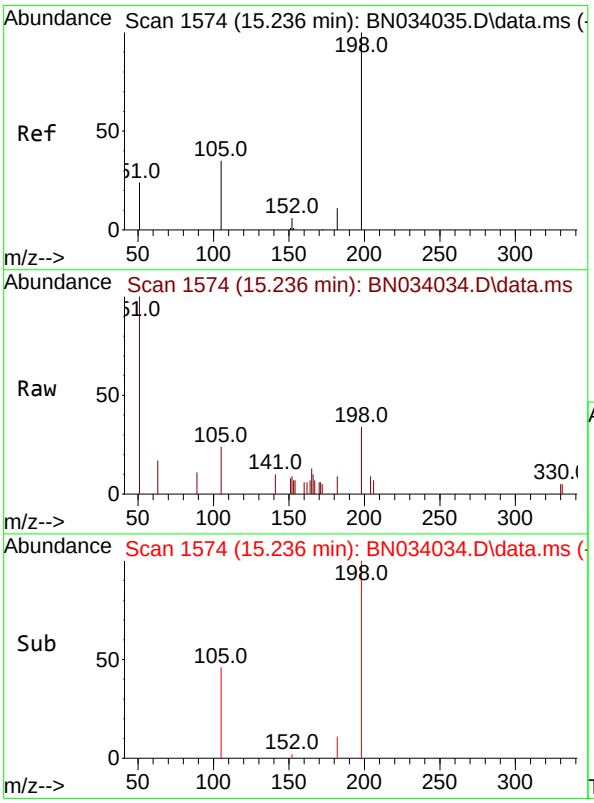
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.842 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:188 Resp: 25709

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.2	7.4	11.0

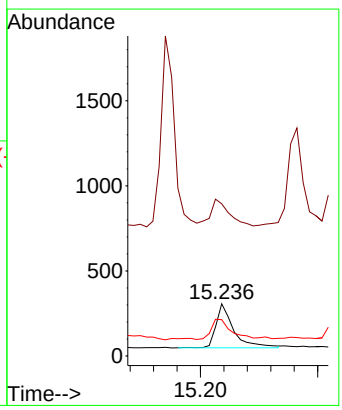


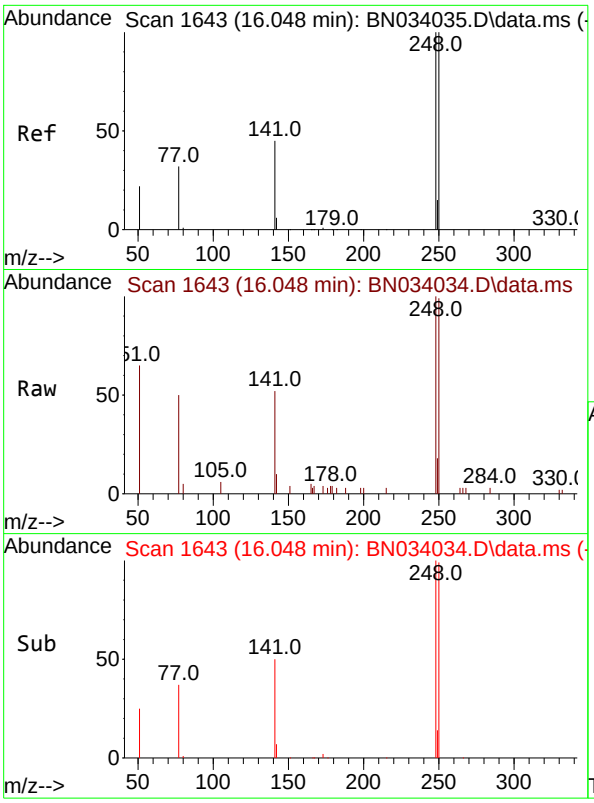


#20
4,6-Dinitro-2-methylphenol
Concen: 0.251 ng
RT: 15.236 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:198 Resp: 541

Ion	Ratio	Lower	Upper
198	100		
51	291.5	106.4	159.6#
105	69.7	38.5	57.7#



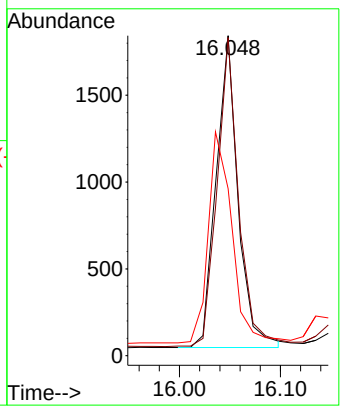


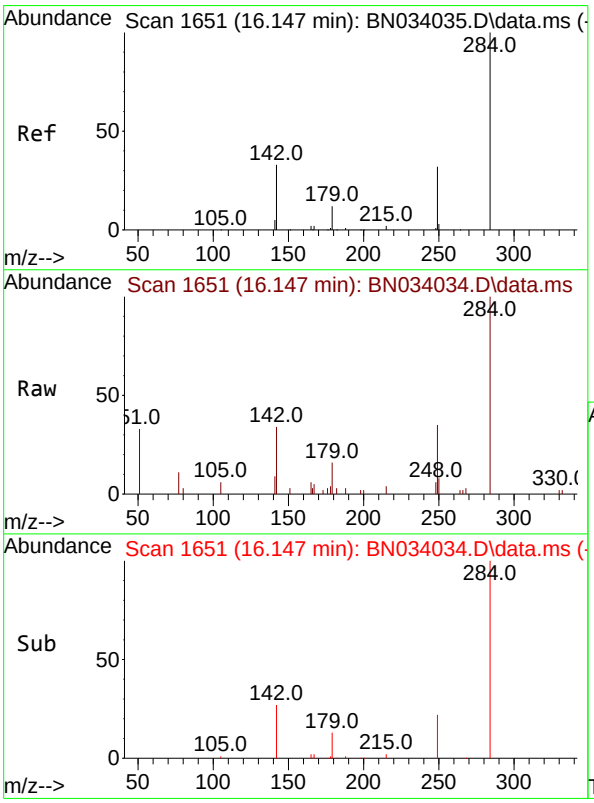
#21
4-Bromophenyl-phenylether
Concen: 0.187 ng
RT: 16.048 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:248 Resp: 2704

Ion	Ratio	Lower	Upper
248	100		
250	99.4	80.5	120.7
141	52.2	37.1	55.7

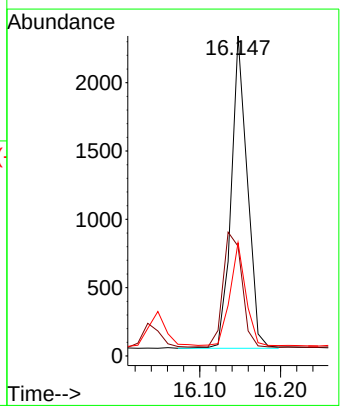


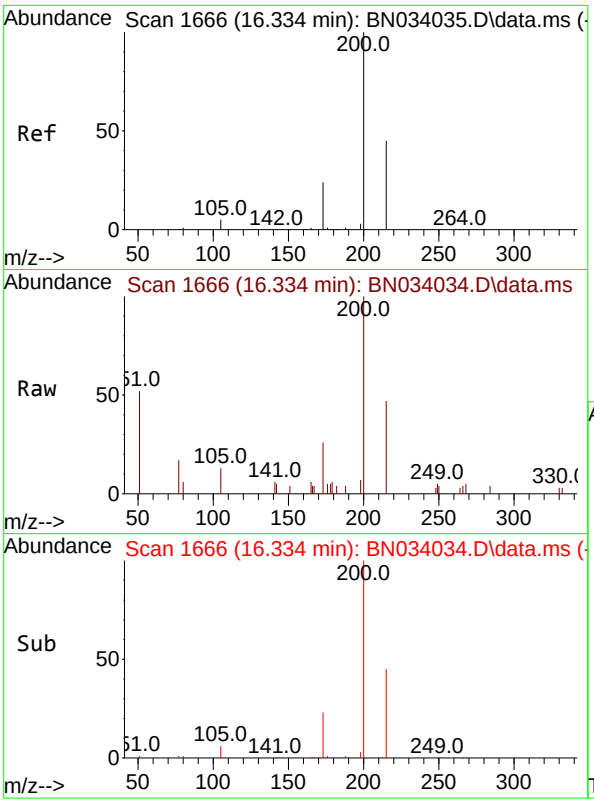


#22
Hexachlorobenzene
Concen: 0.195 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:284 Resp: 3160

Ion	Ratio	Lower	Upper
284	100		
142	43.3	34.5	51.7
249	32.2	25.8	38.6



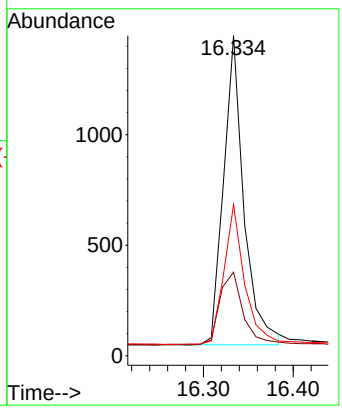


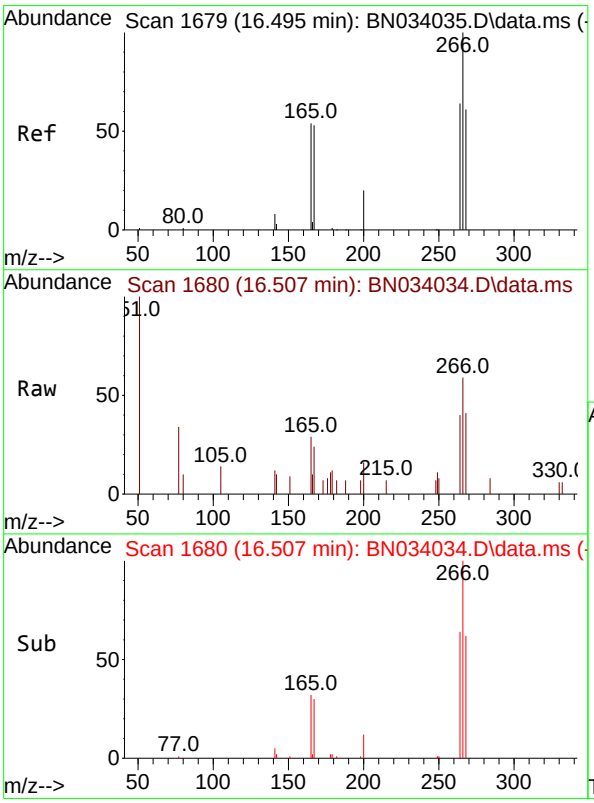
#23
Atrazine
Concen: 0.183 ng
RT: 16.334 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:200 Resp: 2189

Ion	Ratio	Lower	Upper
200	100		
173	26.1	20.1	30.1
215	47.2	37.0	55.6

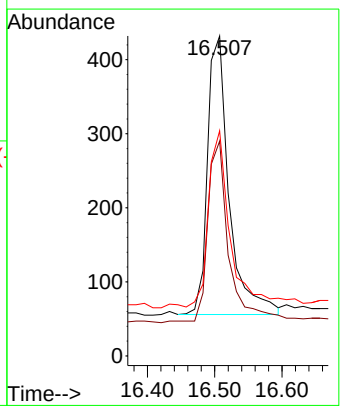


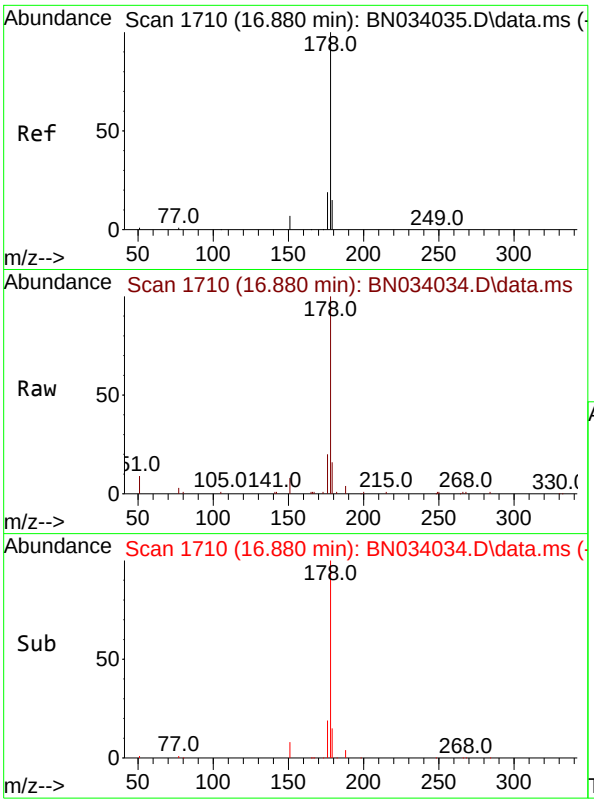


#24
Pentachlorophenol
Concen: 0.156 ng
RT: 16.507 min Scan# 1680
Delta R.T. 0.012 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:266 Resp: 836

Ion	Ratio	Lower	Upper
266	100		
264	63.9	50.2	75.2
268	64.0	51.0	76.4



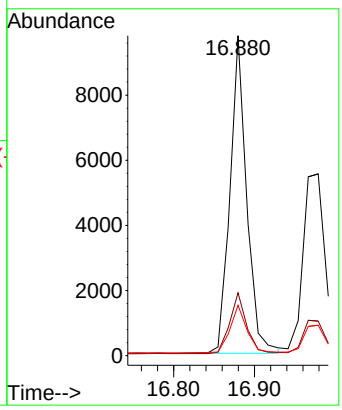


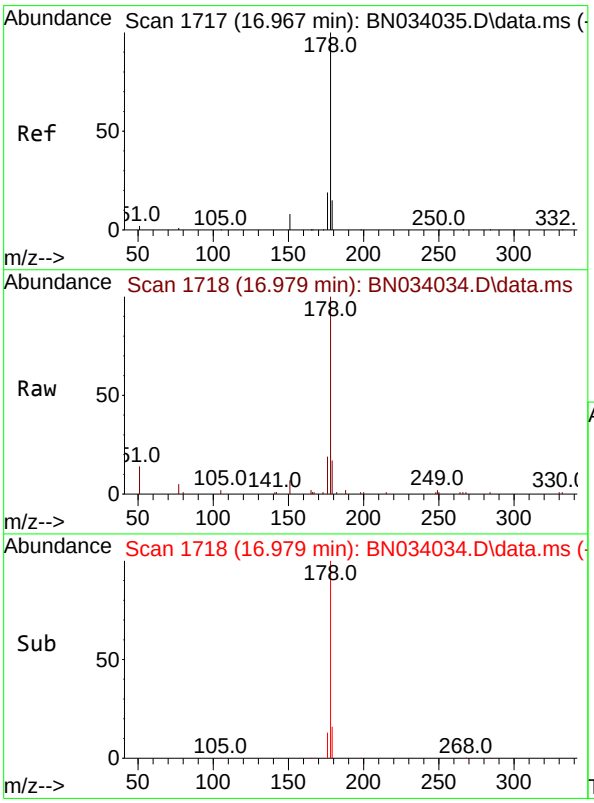
#25
Phenanthrene
Concen: 0.190 ng
RT: 16.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:178 Resp: 14012

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.3	12.1	18.1

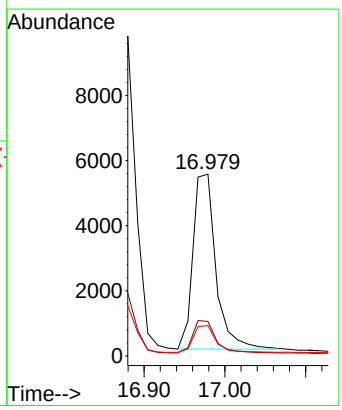


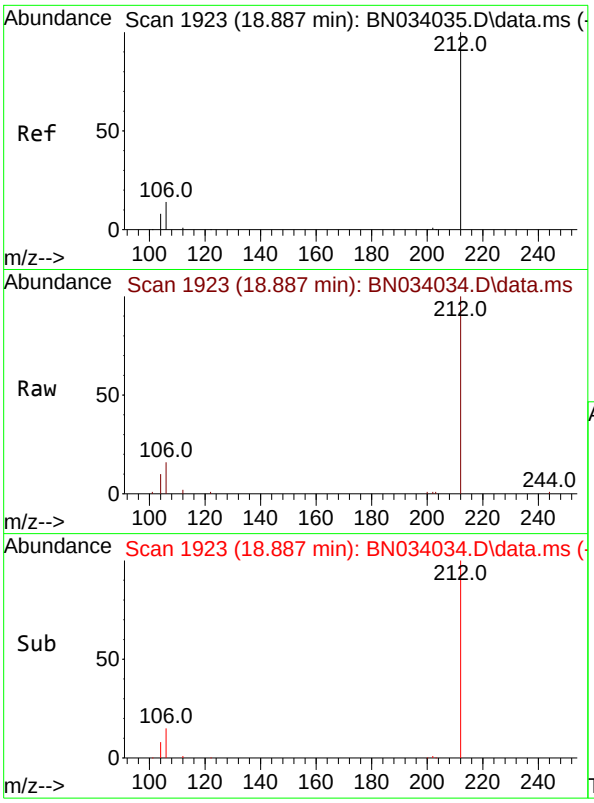


#26
Anthracene
Concen: 0.176 ng
RT: 16.979 min Scan# 1718
Delta R.T. 0.012 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:178 Resp: 10619

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.6
179	15.0	12.2	18.4



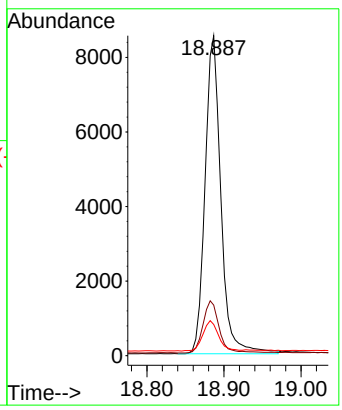


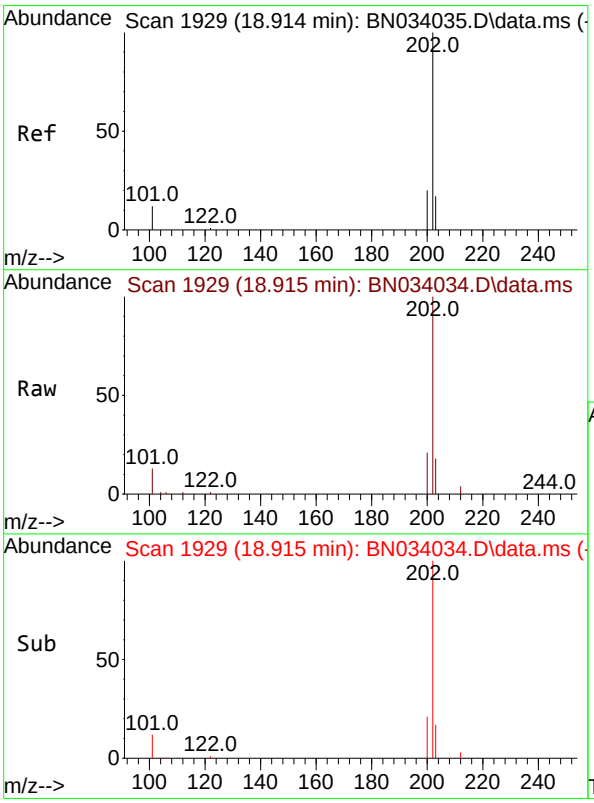
#27
Fluoranthene-d10
Concen: 0.188 ng
RT: 18.887 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:212 Resp: 12178

Ion	Ratio	Lower	Upper
212	100		
106	16.8	13.4	20.2
104	9.4	7.8	11.6

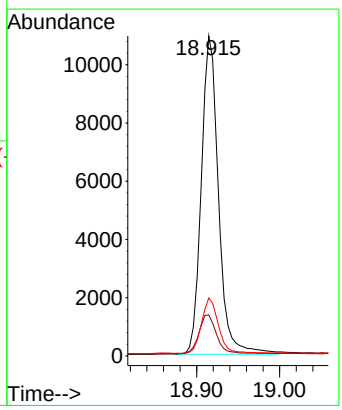


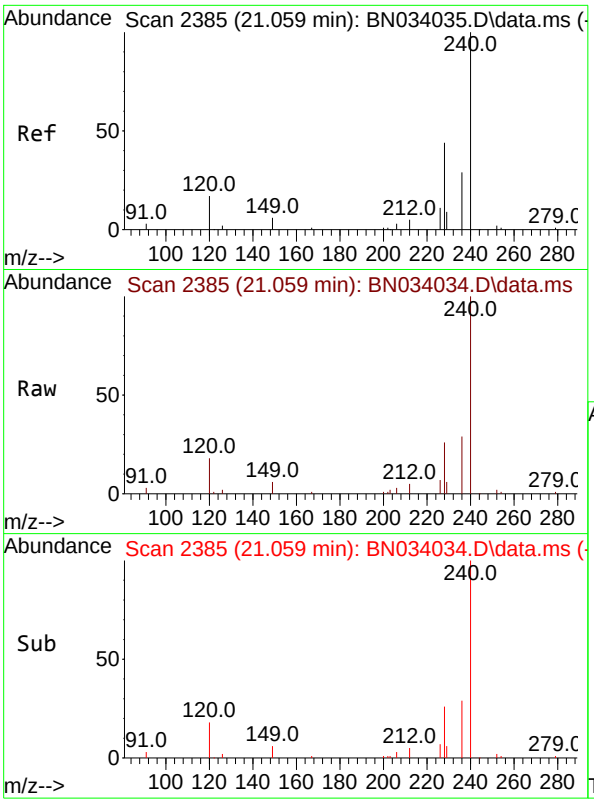


#28
Fluoranthene
Concen: 0.184 ng
RT: 18.915 min Scan# 1929
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:202 Resp: 15759

Ion	Ratio	Lower	Upper
202	100		
101	13.2	10.1	15.1
203	17.1	13.6	20.4



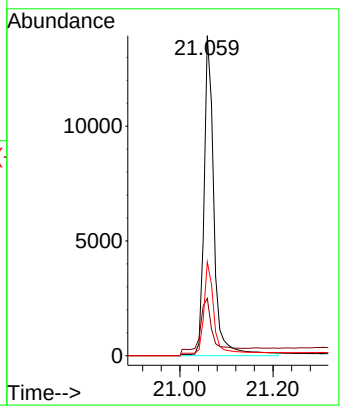


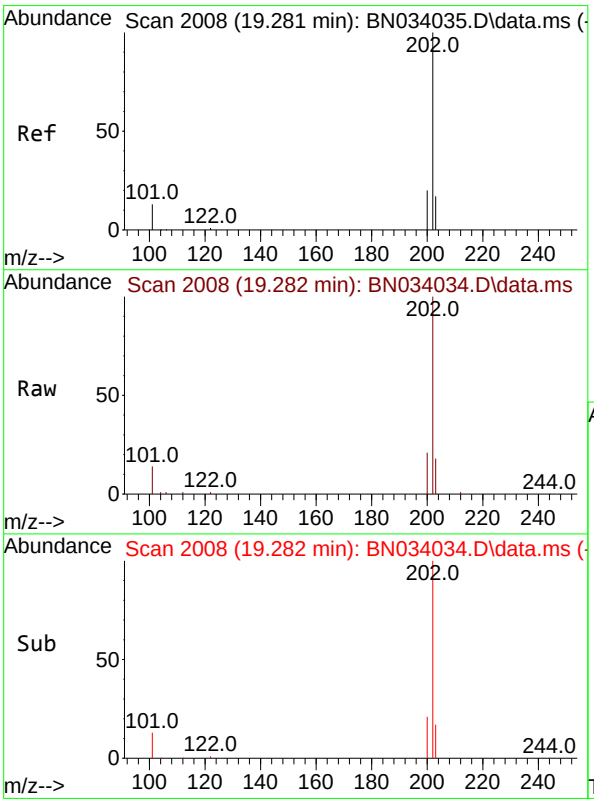
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.059 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:240 Resp: 19925

Ion	Ratio	Lower	Upper
240	100		
120	17.9	13.5	20.3
236	29.3	23.4	35.0

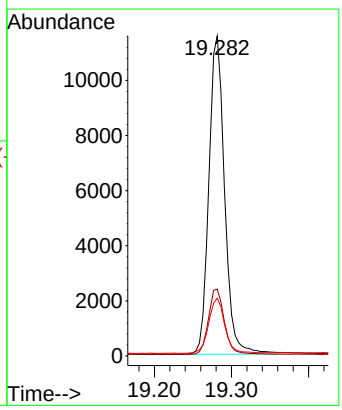


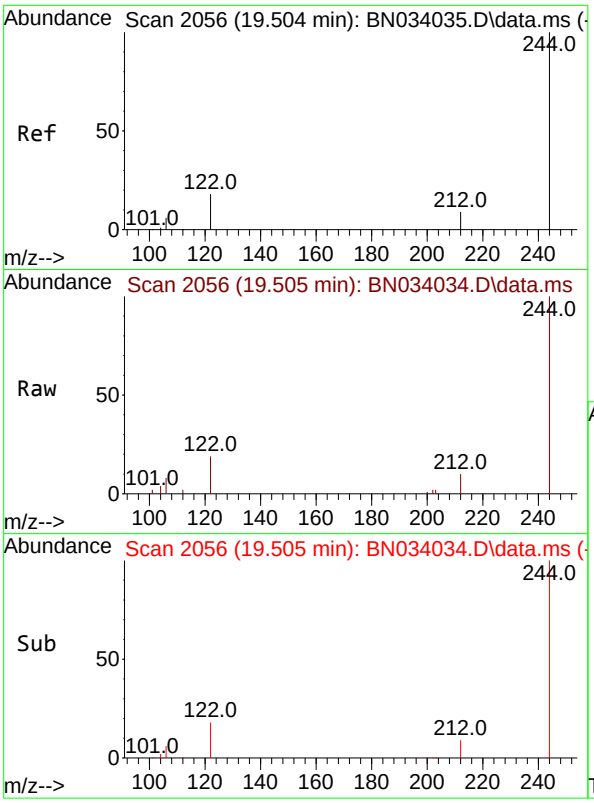


#30
Pyrene
Concen: 0.194 ng
RT: 19.282 min Scan# 2008
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:202 Resp: 16347

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	25.0
203	18.0	14.3	21.5



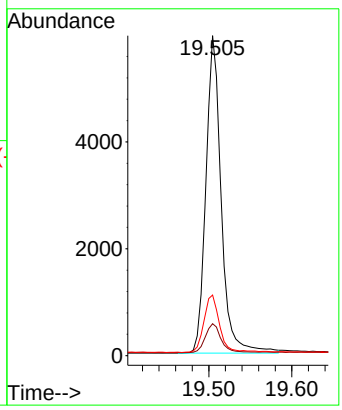


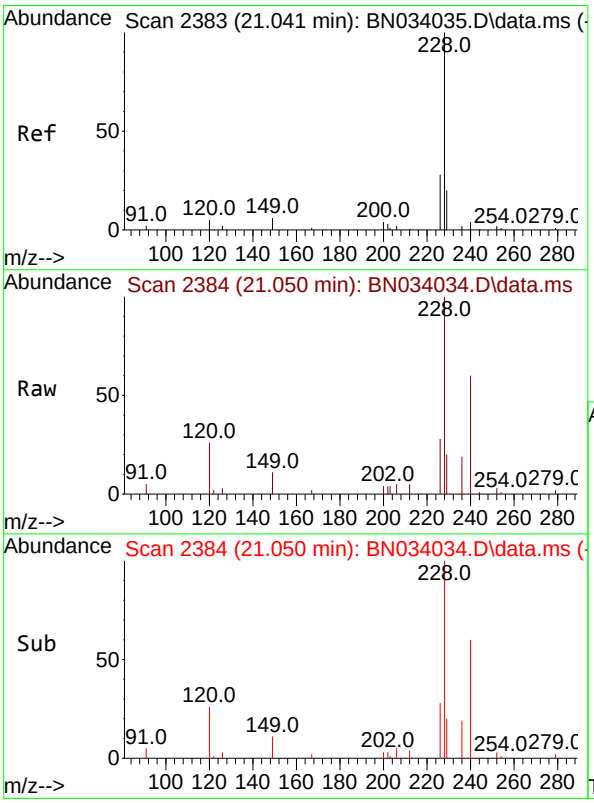
#31
Terphenyl-d14
Concen: 0.192 ng
RT: 19.505 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:244 Resp: 7642

Ion	Ratio	Lower	Upper
244	100		
212	10.0	7.8	11.6
122	19.0	14.8	22.2

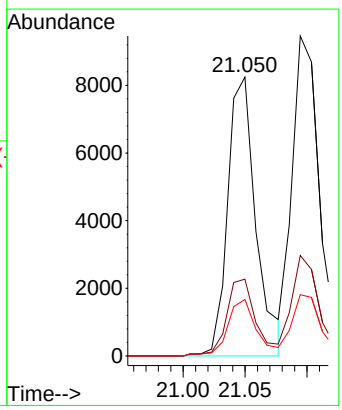


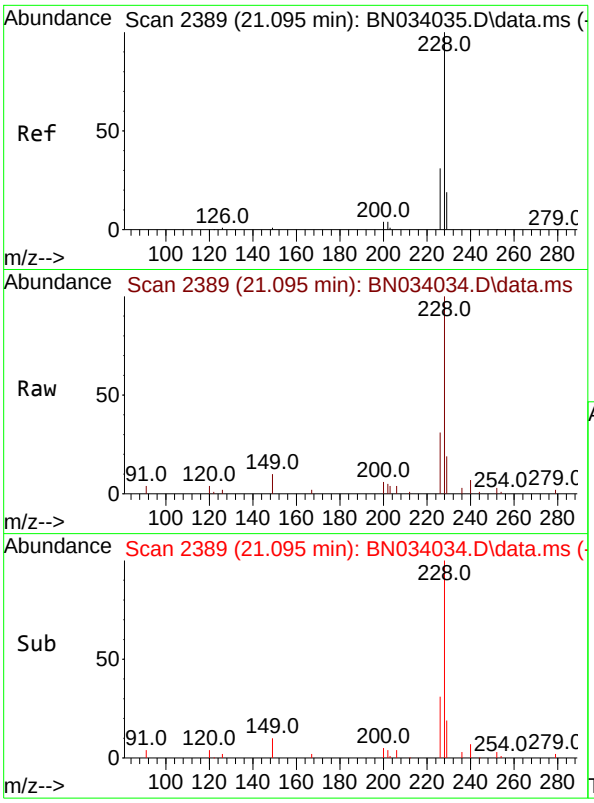


#32
Benzo(a)anthracene
Concen: 0.188 ng
RT: 21.050 min Scan# 2384
Delta R.T. 0.009 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:228 Resp: 11821

Ion	Ratio	Lower	Upper
228	100		
226	27.5	22.3	33.5
229	20.2	15.7	23.5



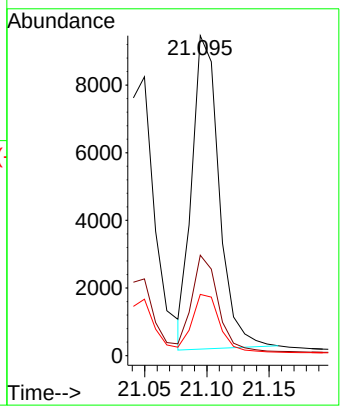


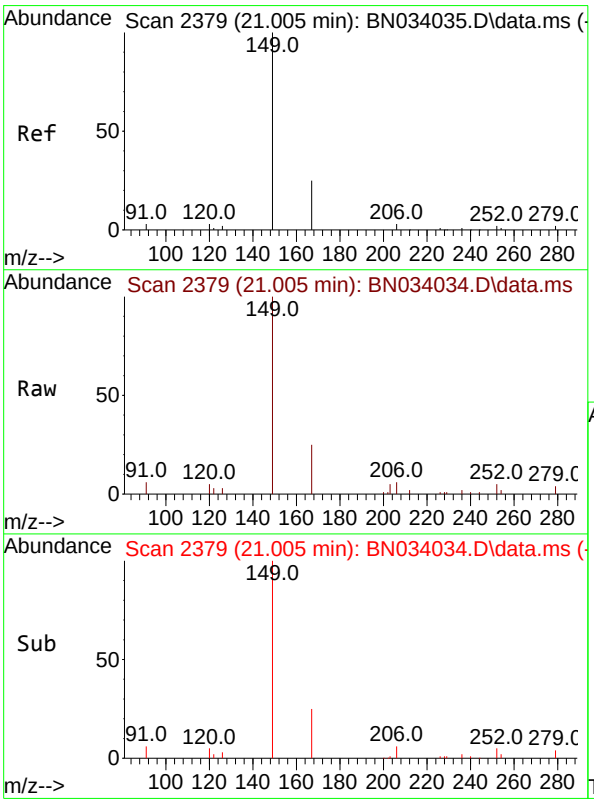
#33
Chrysene
Concen: 0.187 ng
RT: 21.095 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:228 Resp: 14045

Ion	Ratio	Lower	Upper
228	100		
226	31.4	24.6	37.0
229	19.2	15.5	23.3

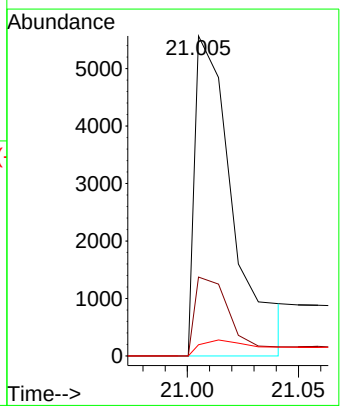


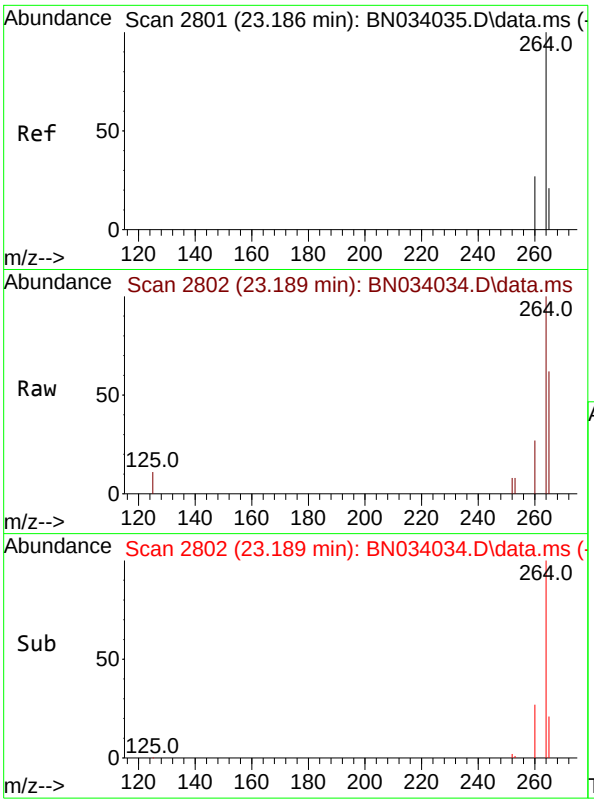


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.238 ng
RT: 21.005 min Scan# 2379
Delta R.T. 0.000 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:149 Resp: 6255

Ion	Ratio	Lower	Upper
149	100		
167	23.9	19.9	29.9
279	7.3	4.6	6.8#



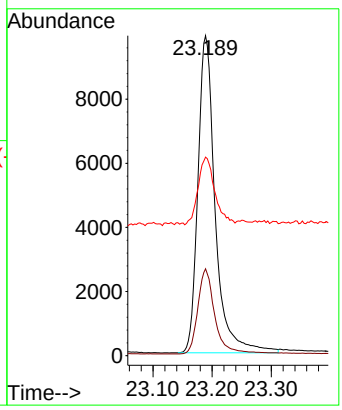


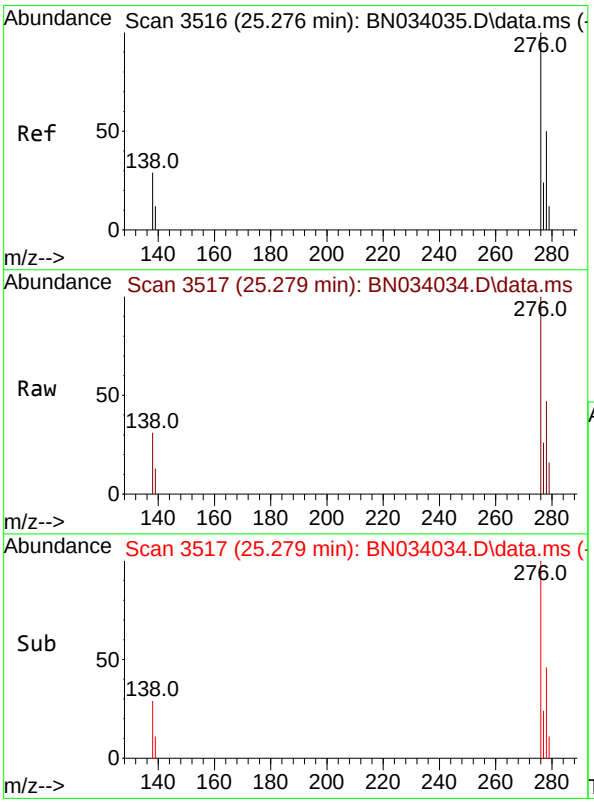
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.189 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:264 Resp: 20082

Ion	Ratio	Lower	Upper
264	100		
260	27.2	21.7	32.5
265	62.1	52.1	78.1

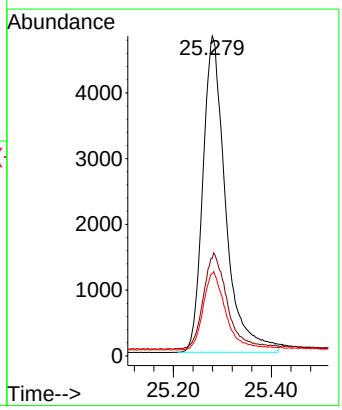


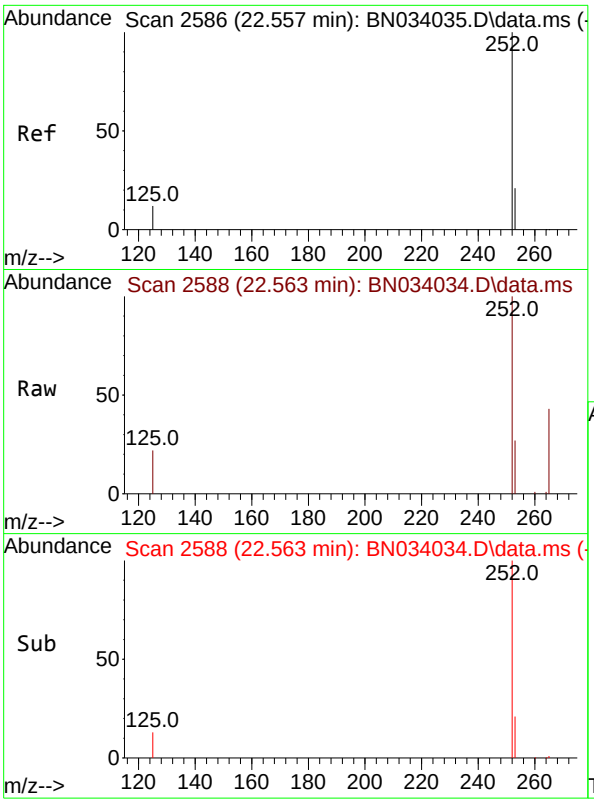


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.180 ng
RT: 25.279 min Scan# 3517
Delta R.T. 0.003 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:276 Resp: 15490

Ion	Ratio	Lower	Upper
276	100		
138	31.5	25.9	38.9
277	24.5	19.7	29.5



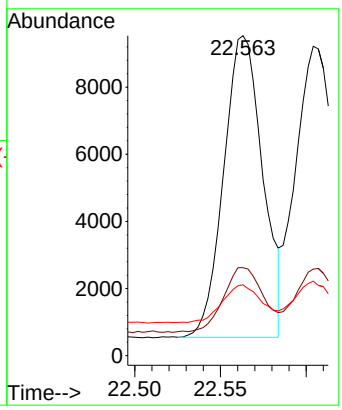


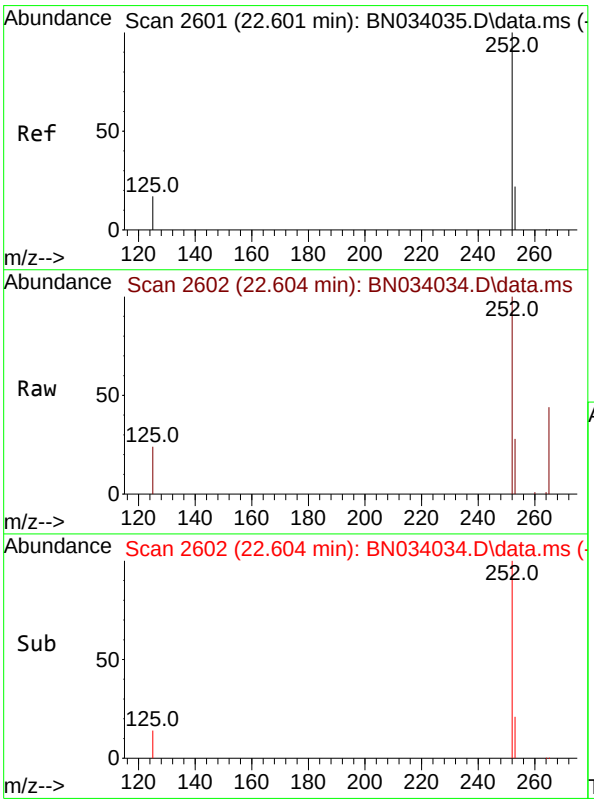
#37
Benzo(b)fluoranthene
Concen: 0.181 ng
RT: 22.563 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 14213

Ion	Ratio	Lower	Upper
252	100		
253	27.5	19.6	29.4
125	22.2	13.8	20.8#

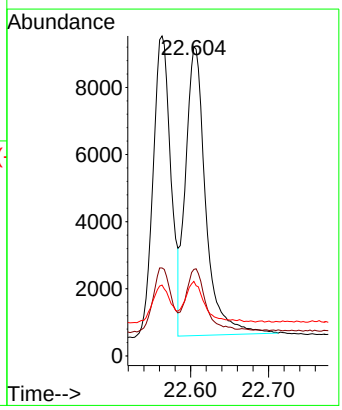


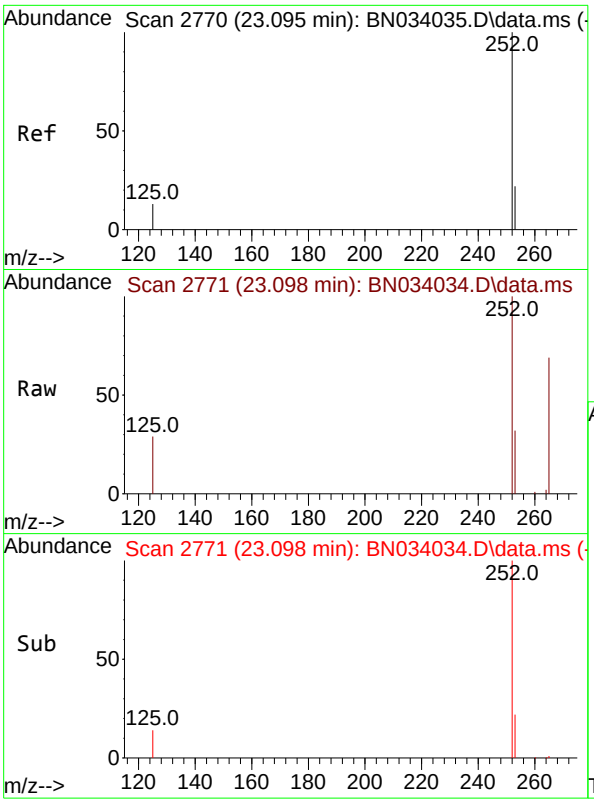


#38
Benzo(k)fluoranthene
Concen: 0.187 ng
RT: 22.604 min Scan# 2602
Delta R.T. 0.003 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:252 Resp: 15443

Ion	Ratio	Lower	Upper
252	100		
253	28.0	20.1	30.1
125	24.1	16.8	25.2



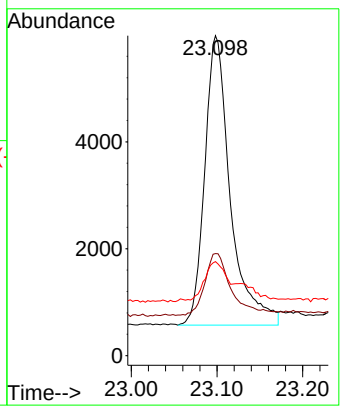


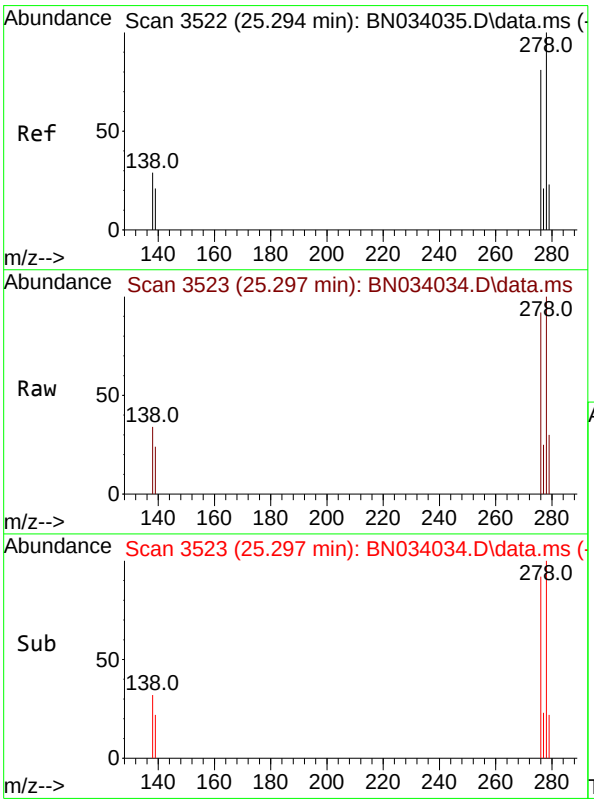
#39
Benzo(a)pyrene
Concen: 0.176 ng
RT: 23.098 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:252 Resp: 11266

Ion	Ratio	Lower	Upper
252	100		
253	31.9	21.8	32.8
125	29.4	17.5	26.3#

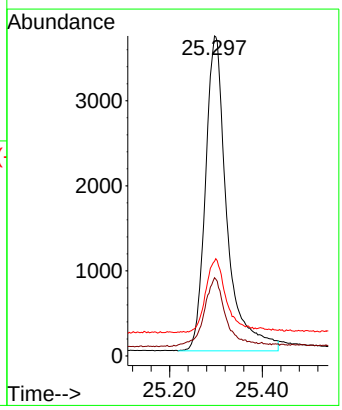


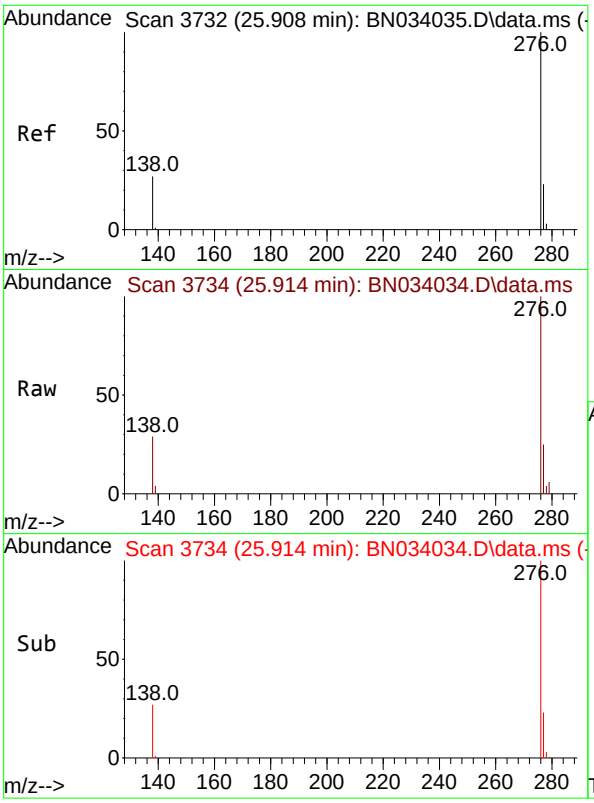


#40
Dibenzo(a,h)anthracene
Concen: 0.178 ng
RT: 25.297 min Scan# 3523
Delta R.T. 0.003 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Tgt Ion:278 Resp: 11898

Ion	Ratio	Lower	Upper
278	100		
139	24.4	17.8	26.8
279	29.6	21.0	31.6



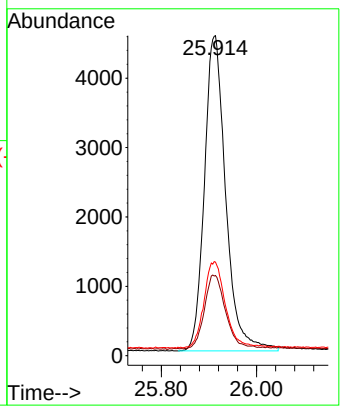


#41
Benzo(g,h,i)perylene
Concen: 0.188 ng
RT: 25.914 min Scan# 3
Delta R.T. 0.006 min
Lab File: BN034034.D
Acq: 18 Sep 2024 12:29

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.2

Tgt Ion:276 Resp: 14133

Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.3	28.9
138	29.2	22.6	34.0



Quantitation Report (QT Reviewed)

ICAL Form

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Data File : BN034035.D
Acq On : 18 Sep 2024 13:05
Operator : JU/RC
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Sep 18 16:14:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.437	152	6856	0.400	ng		0.00
7) Naphthalene-d8	10.197	136	19411	0.400	ng		0.00
13) Acenaphthene-d10	14.082	164	11055	0.400	ng		0.00
19) Phenanthrene-d10	16.842	188	24256	0.400	ng		0.00
29) Chrysene-d12	21.059	240	18497	0.400	ng		0.00
35) Perylene-d12	23.186	264	19466	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.075	112	7330	0.377	ng		0.00
5) Phenol-d6	6.635	99	8150	0.360	ng		0.00
8) Nitrobenzene-d5	8.574	82	5434	0.366	ng		0.00
11) 2-Methylnaphthalene-d10	11.794	152	10871	0.379	ng		0.00
14) 2,4,6-Tribromophenol	15.589	330	1711	0.342	ng		0.00
15) 2-Fluorobiphenyl	12.703	172	17403	0.387	ng		0.00
27) Fluoranthene-d10	18.887	212	23105	0.378	ng		0.00
31) Terphenyl-d14	19.504	244	14682	0.397	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.082	88	3448	0.402	ng		97
3) n-Nitrosodimethylamine	3.378	42	3772	0.387	ng		99
6) bis(2-Chloroethyl)ether	6.880	93	7581	0.379	ng		100
9) Naphthalene	10.240	128	20506	0.385	ng		100
10) Hexachlorobutadiene	10.539	225	3968	0.395	ng	#	100
12) 2-Methylnaphthalene	11.869	142	13168	0.380	ng		100
16) Acenaphthylene	13.793	152	16994	0.359	ng		100
17) Acenaphthene	14.146	154	12987	0.383	ng		100
18) Fluorene	15.140	166	16895	0.379	ng		100
20) 4,6-Dinitro-2-methylph...	15.236	198	1127	0.388	ng		100
21) 4-Bromophenyl-phenylether	16.048	248	5173	0.379	ng		100
22) Hexachlorobenzene	16.147	284	6010	0.393	ng		100
23) Atrazine	16.334	200	4123	0.365	ng		100
24) Pentachlorophenol	16.495	266	1695	0.335	ng		99
25) Phenanthrene	16.880	178	26847	0.385	ng		100
26) Anthracene	16.967	178	20459	0.360	ng		99
28) Fluoranthene	18.914	202	30513	0.378	ng		100
30) Pyrene	19.281	202	31284	0.401	ng		100
32) Benzo(a)anthracene	21.041	228	21782	0.372	ng		100
33) Chrysene	21.095	228	28280	0.405	ng		100
34) Bis(2-ethylhexyl)phtha...	21.005	149	10166	0.417	ng		100
36) Indeno(1,2,3-cd)pyrene	25.276	276	34361	0.412	ng		100
37) Benzo(b)fluoranthene	22.557	252	28282	0.371	ng		100
38) Benzo(k)fluoranthene	22.601	252	31658	0.395	ng		100
39) Benzo(a)pyrene	23.095	252	23302	0.375	ng		100
40) Dibenzo(a,h)anthracene	25.294	278	26318	0.406	ng		100
41) Benzo(g,h,i)perylene	25.908	276	29289	0.402	ng		100

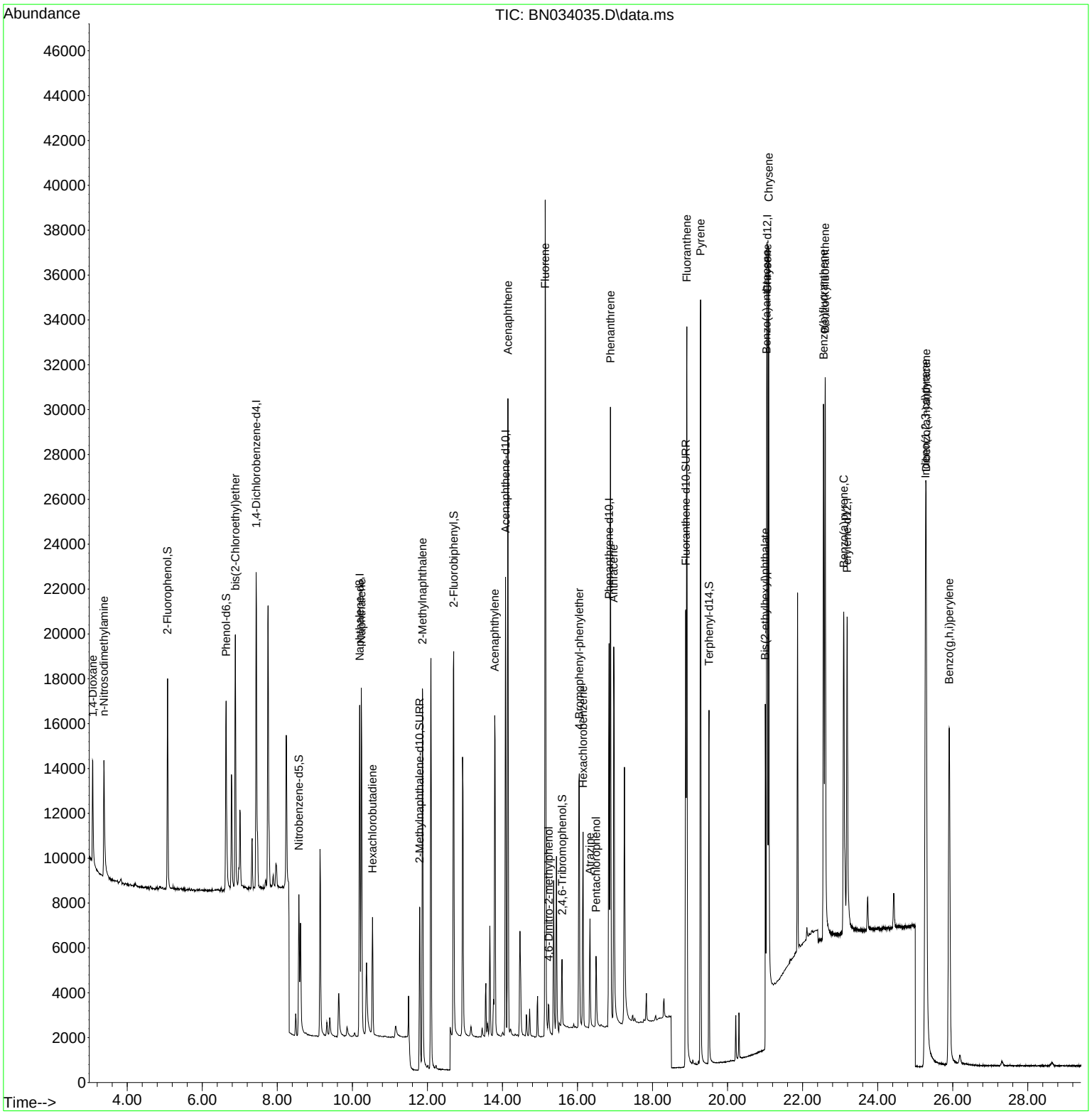
(#) = qualifier out of range (m) = manual integration (+) = signals summed

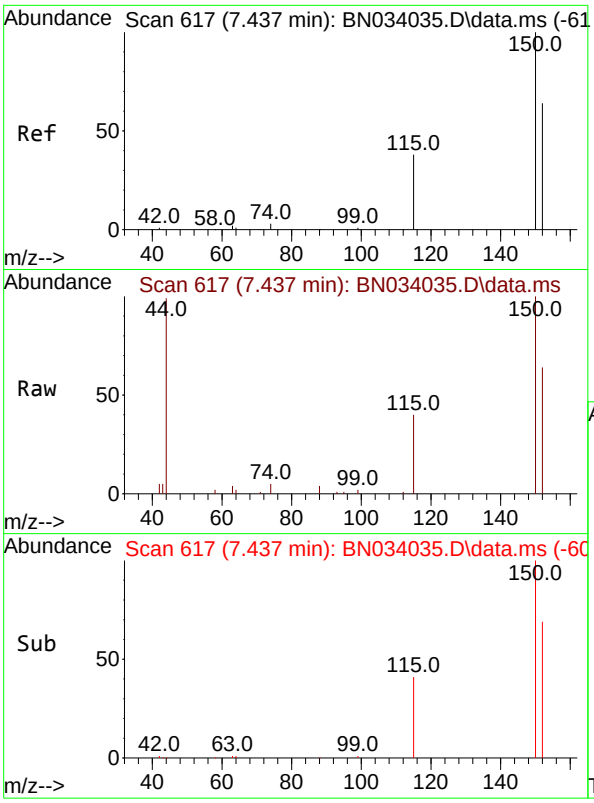
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034035.D
Acq On : 18 Sep 2024 13:05
Operator : JU/RC
Sample : SSTDICCC0.4
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Quant Time: Sep 18 16:14:30 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



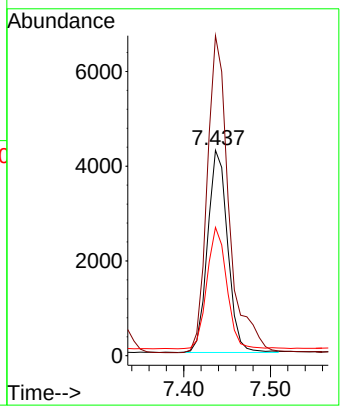


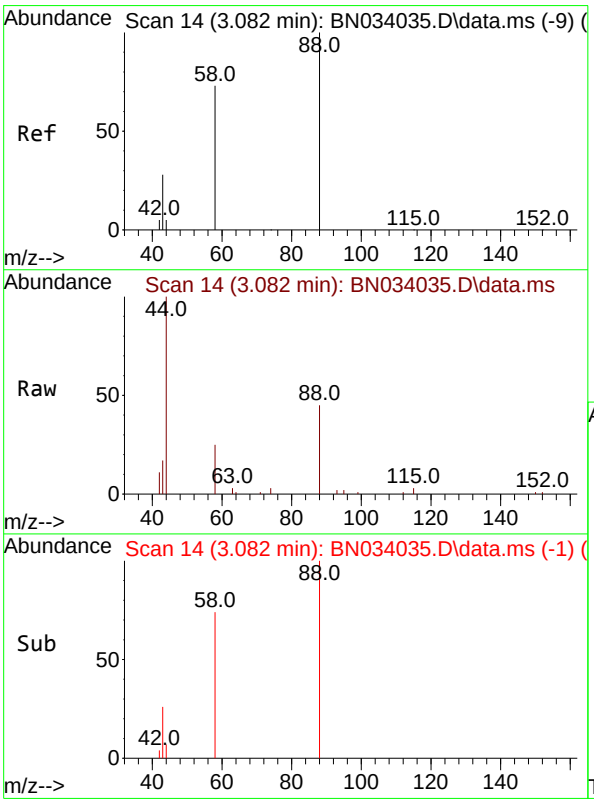
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.437 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 6856

Ion	Ratio	Lower	Upper
152	100		
150	155.8	124.6	187.0
115	62.5	50.0	75.0

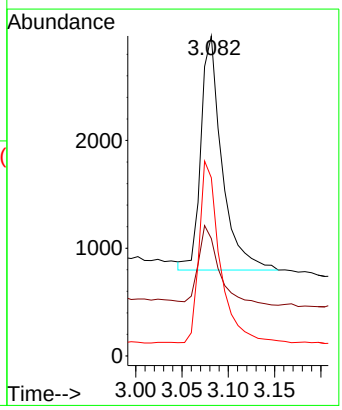


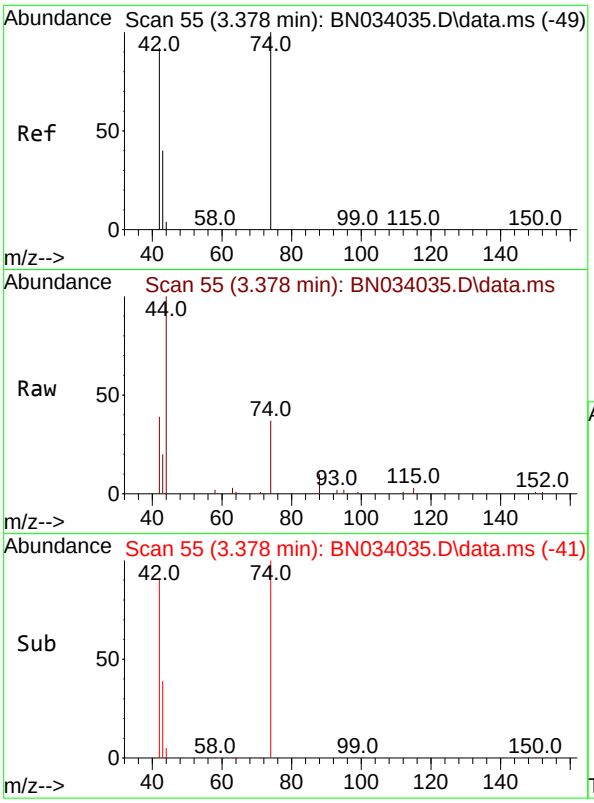


#2
1,4-Dioxane
Concen: 0.402 ng
RT: 3.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion: 88 Resp: 3448

Ion	Ratio	Lower	Upper
88	100		
43	33.6	25.8	38.8
58	76.2	58.8	88.2



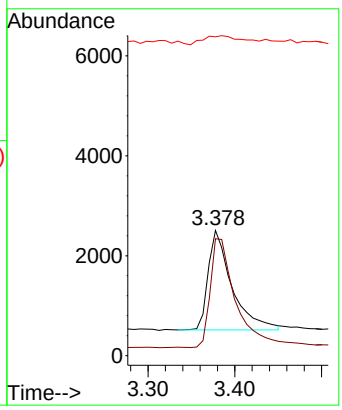


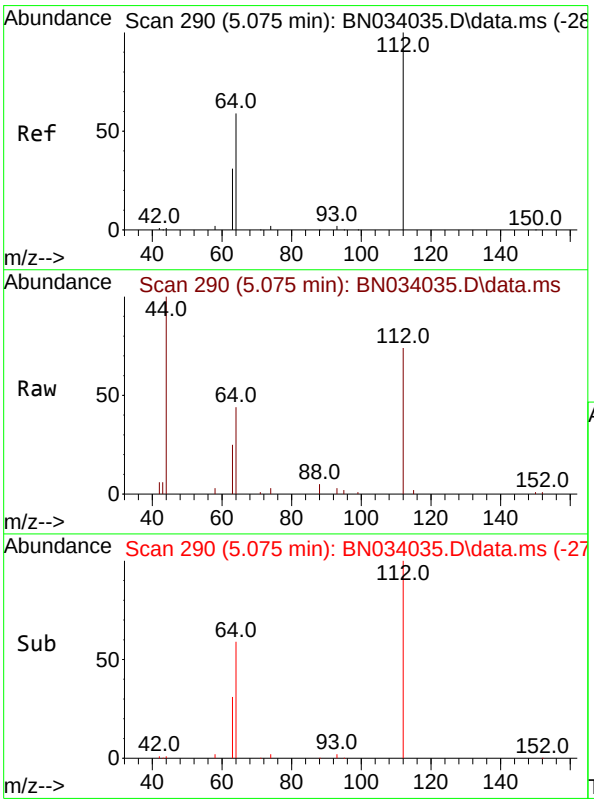
#3
n-Nitrosodimethylamine
Concen: 0.387 ng
RT: 3.378 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 42 Resp: 3772

Ion	Ratio	Lower	Upper
42	100		
74	116.6	94.6	142.0
44	15.7	12.4	18.6

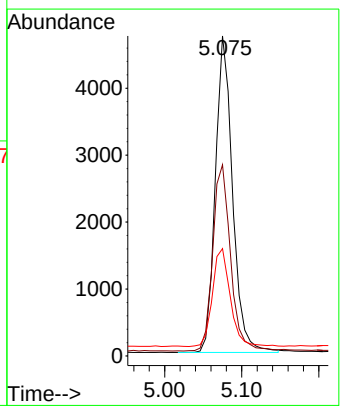


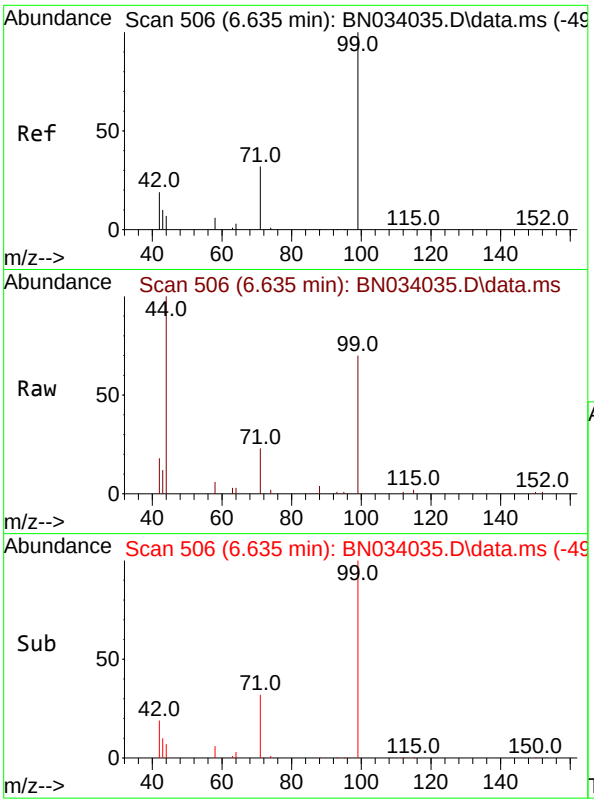


#4
2-Fluorophenol
Concen: 0.377 ng
RT: 5.075 min Scan# 290
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:112 Resp: 7330

Ion	Ratio	Lower	Upper
112	100		
64	60.8	48.6	72.8
63	32.0	25.6	38.4



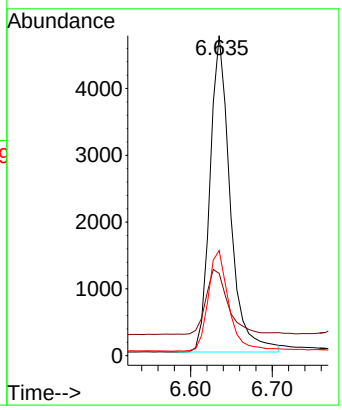


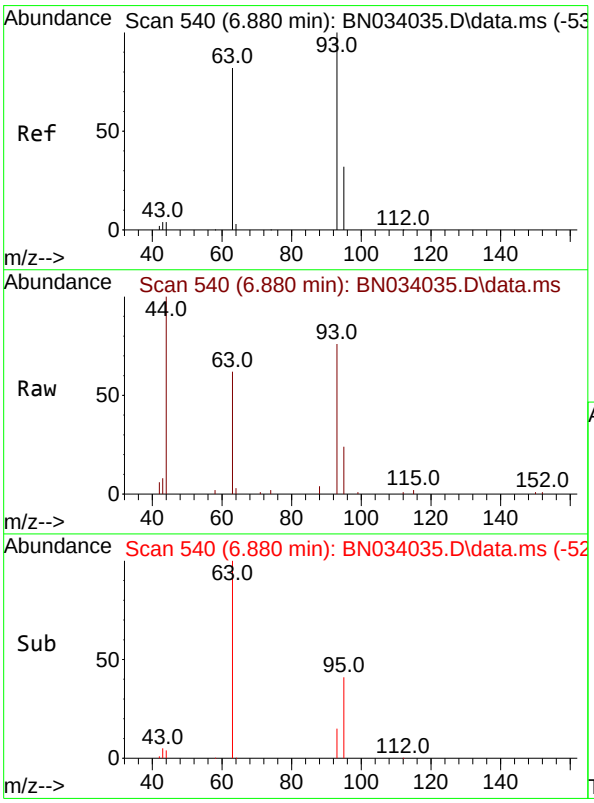
#5
Phenol-d6
Concen: 0.360 ng
RT: 6.635 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion: 99 Resp: 8150

Ion	Ratio	Lower	Upper
99	100		
42	22.3	17.8	26.8
71	32.7	26.2	39.2

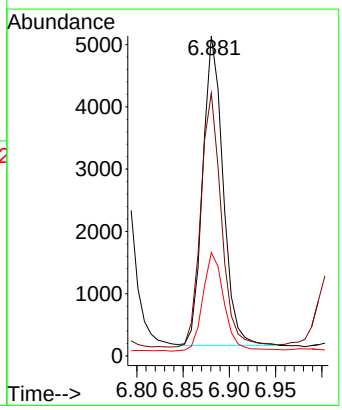


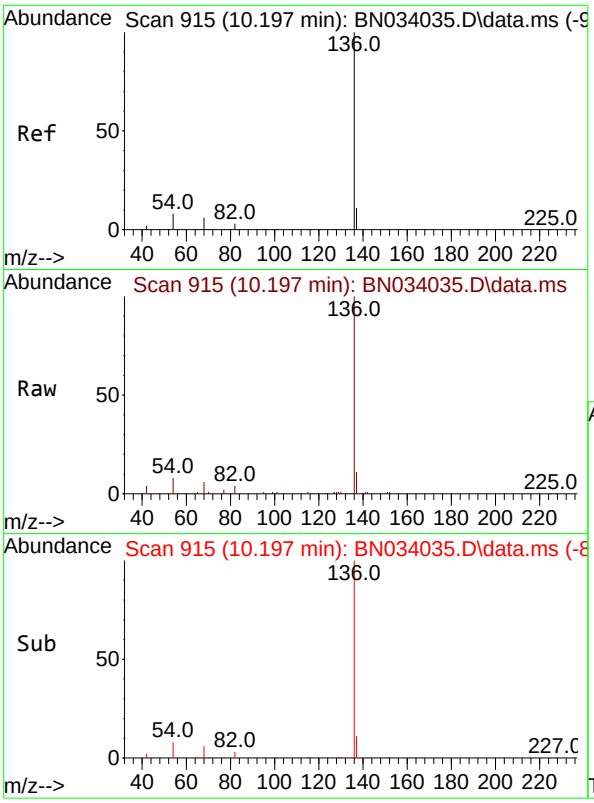


#6
bis(2-Chloroethyl)ether
Concen: 0.379 ng
RT: 6.880 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion: 93 Resp: 7581

Ion	Ratio	Lower	Upper
93	100		
63	84.1	67.3	100.9
95	33.5	26.8	40.2



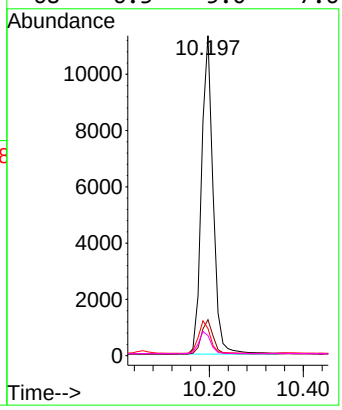


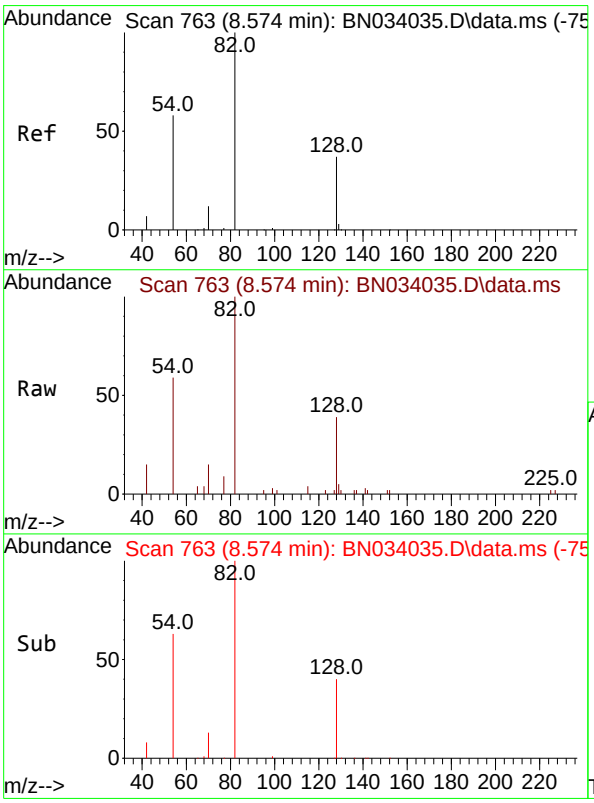
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.197 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:136 Resp: 19411

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	8.5	6.8	10.2
68	6.3	5.0	7.6

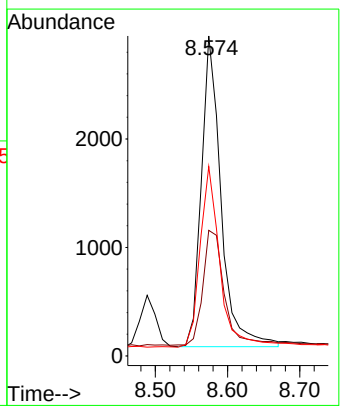


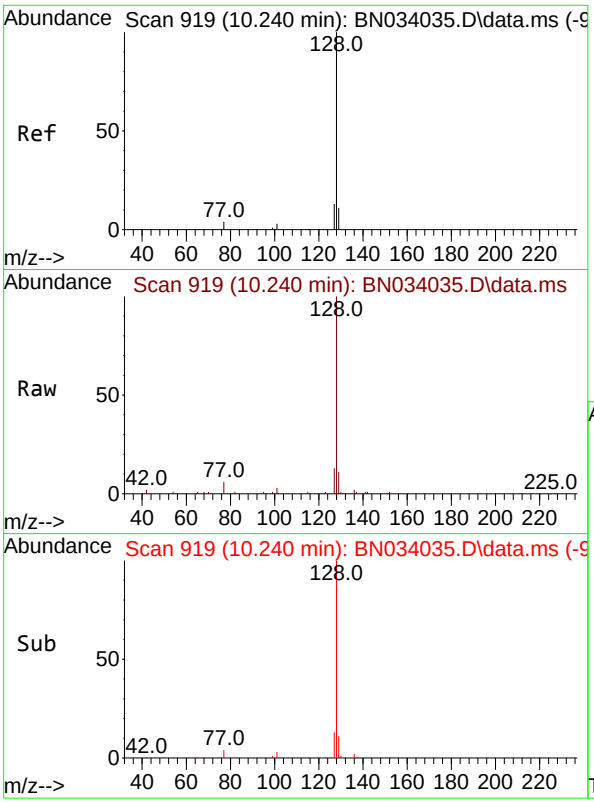


#8
Nitrobenzene-d5
Concen: 0.366 ng
RT: 8.574 min Scan# 763
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion: 82 Resp: 5434

Ion	Ratio	Lower	Upper
82	100		
128	39.3	31.4	47.2
54	59.2	47.4	71.0



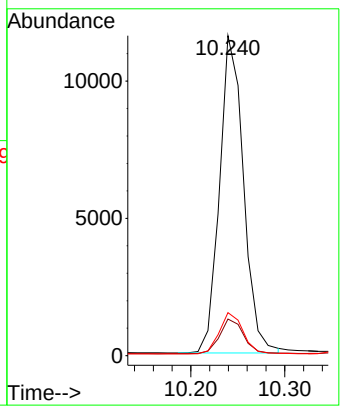


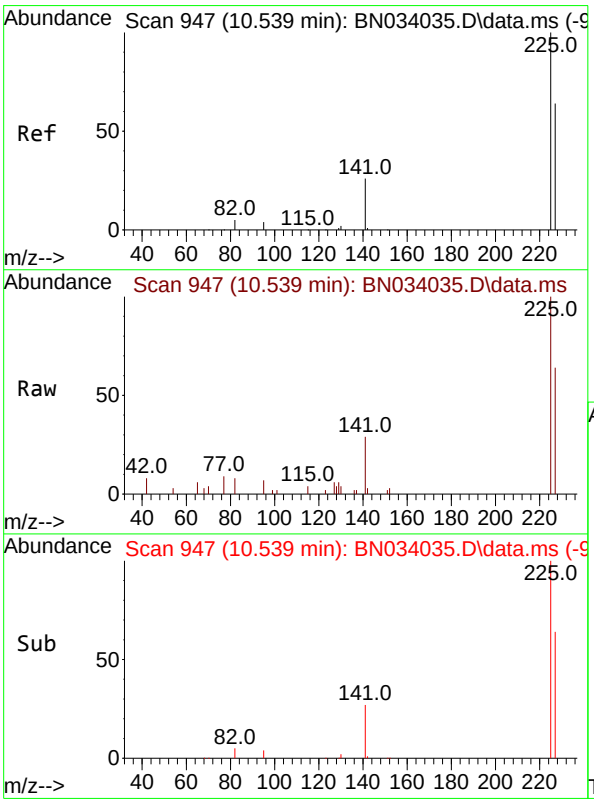
#9
Naphthalene
Concen: 0.385 ng
RT: 10.240 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:128 Resp: 20506

Ion	Ratio	Lower	Upper
128	100		
129	11.5	9.2	13.8
127	13.4	10.7	16.1

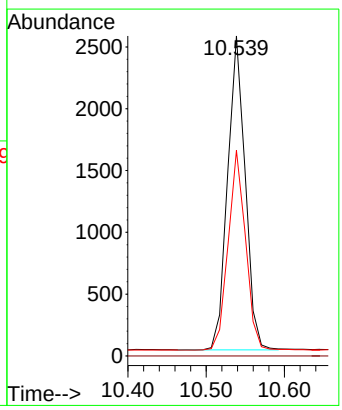


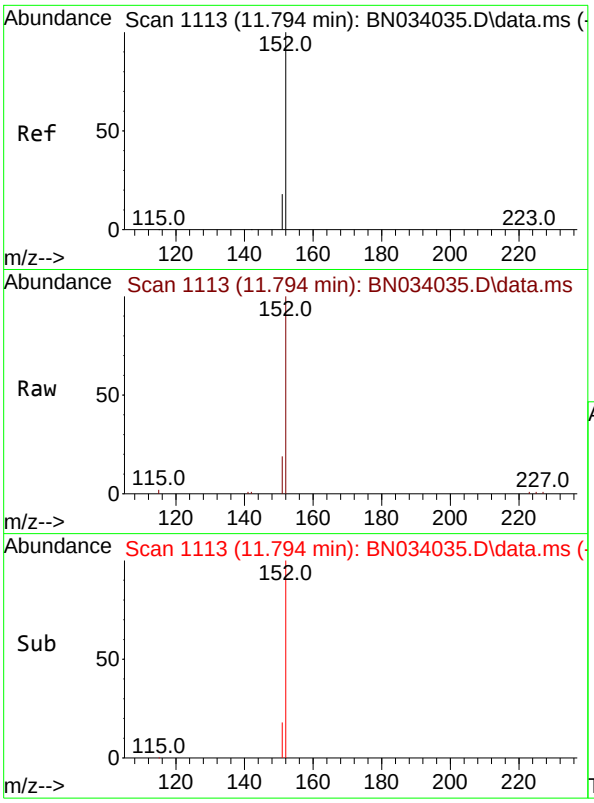


#10
Hexachlorobutadiene
Concen: 0.395 ng
RT: 10.539 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:225 Resp: 3968

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.1	50.5	75.7



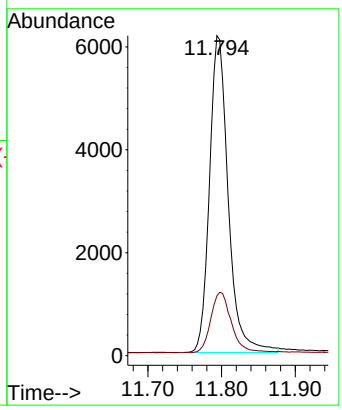


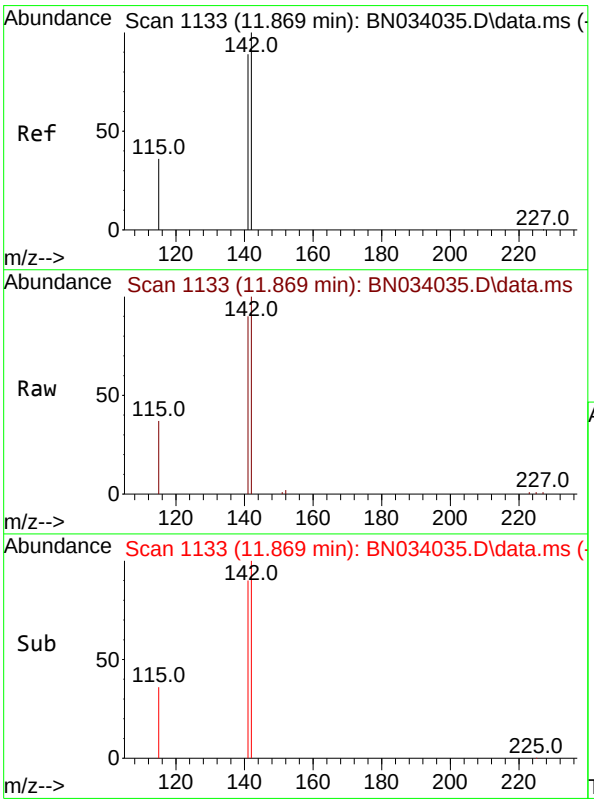
#11
2-Methylnaphthalene-d10
Concen: 0.379 ng
RT: 11.794 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:152 Resp: 10871

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.8	25.2

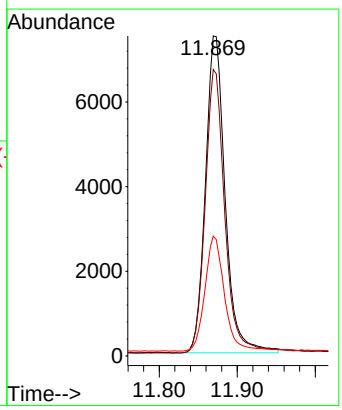


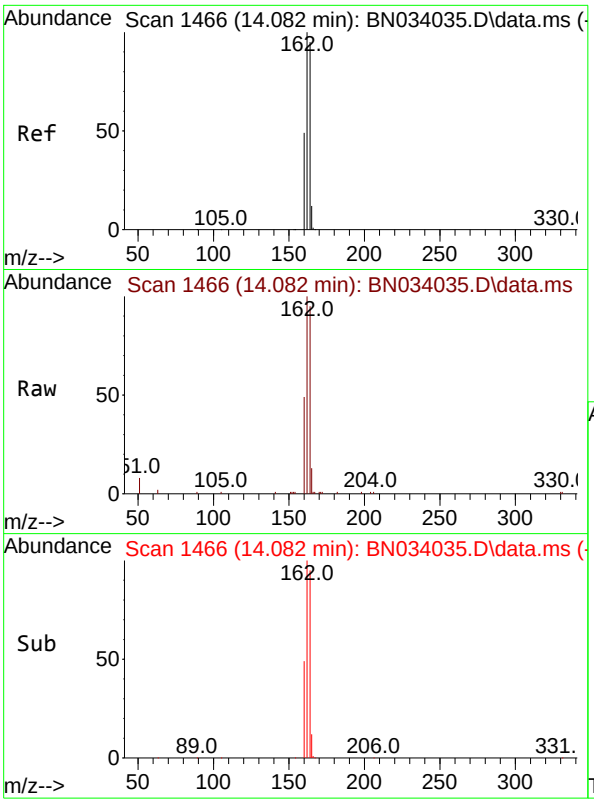


#12
2-Methylnaphthalene
Concen: 0.380 ng
RT: 11.869 min Scan# 1133
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:142 Resp: 13168

Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.6	107.4
115	37.5	30.0	45.0



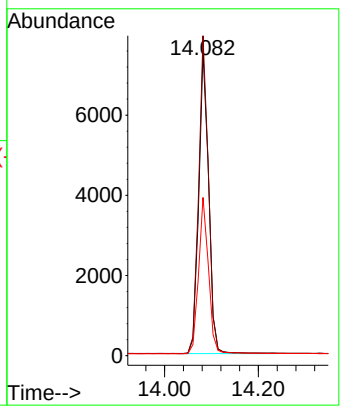


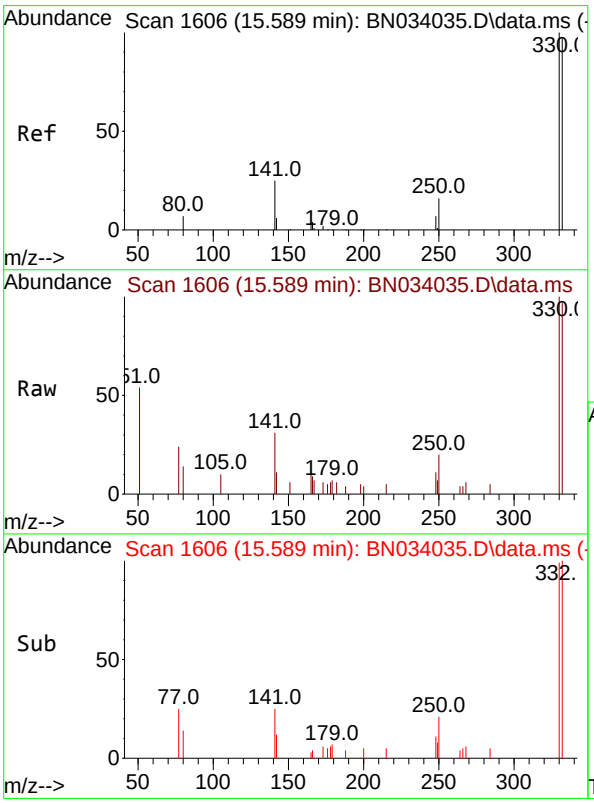
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:164 Resp: 11055

Ion	Ratio	Lower	Upper
164	100		
162	105.2	84.2	126.2
160	52.1	41.7	62.5

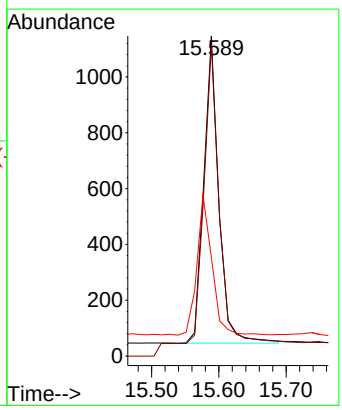


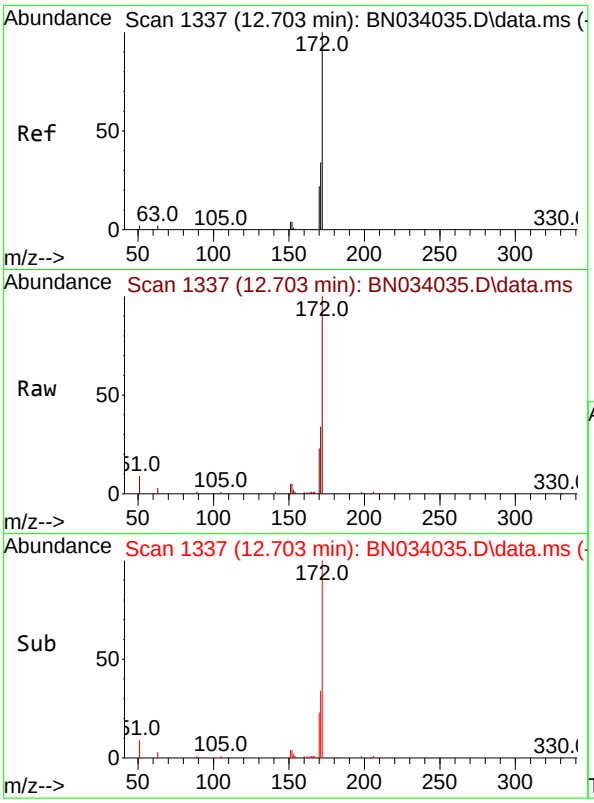


#14
2,4,6-Tribromophenol
Concen: 0.342 ng
RT: 15.589 min Scan# 1606
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:330 Resp: 1711

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.4	116.0
141	44.9	35.9	53.9



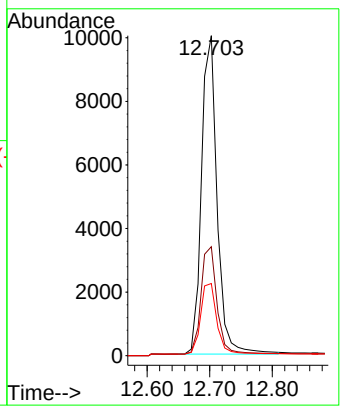


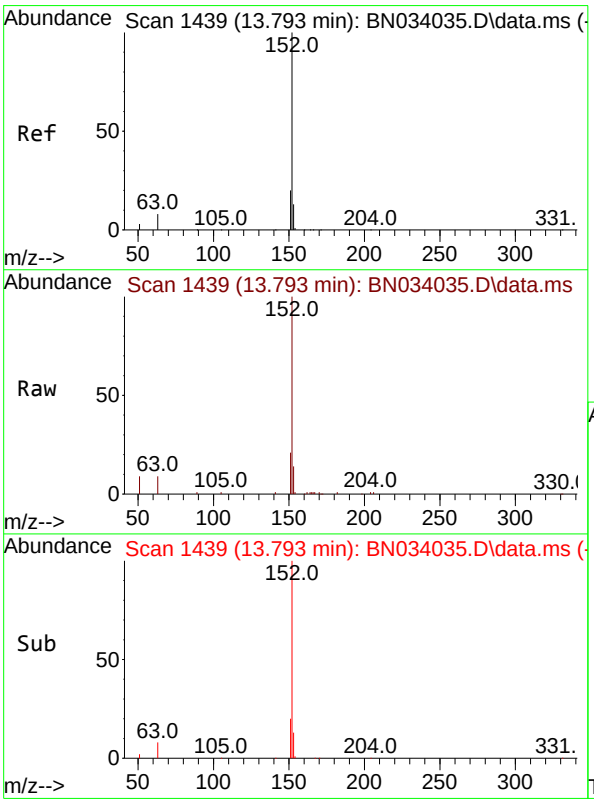
#15
2-Fluorobiphenyl
Concen: 0.387 ng
RT: 12.703 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:172 Resp: 17403

Ion	Ratio	Lower	Upper
172	100		
171	34.1	27.3	40.9
170	22.6	18.1	27.1

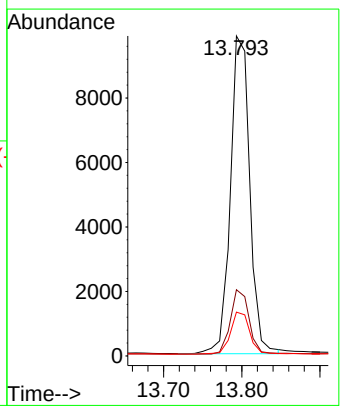


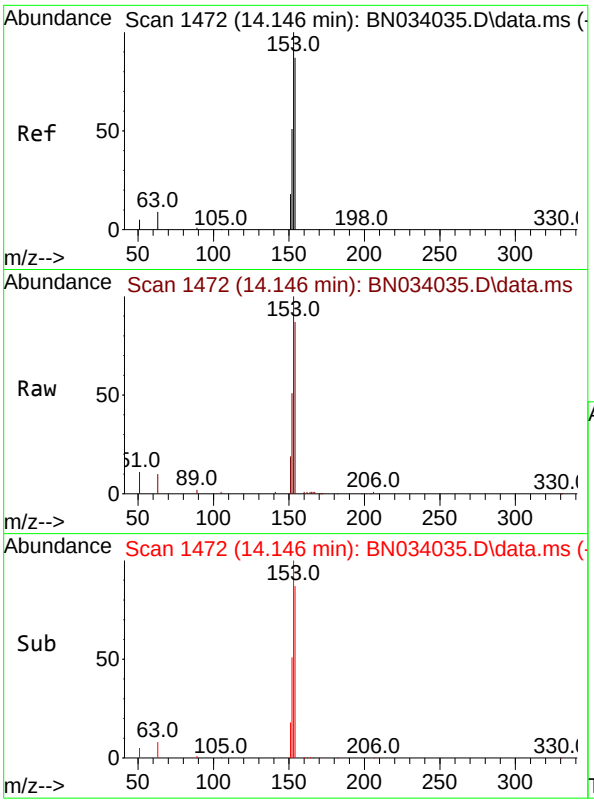


#16
Acenaphthylene
Concen: 0.359 ng
RT: 13.793 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:152 Resp: 16994

Ion	Ratio	Lower	Upper
152	100		
151	19.5	15.6	23.4
153	12.9	10.3	15.5



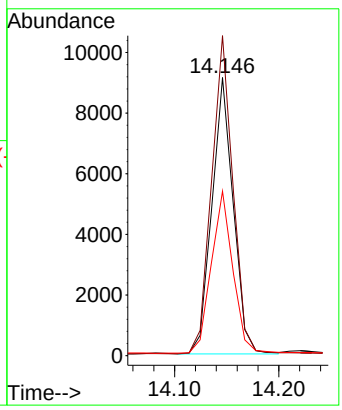


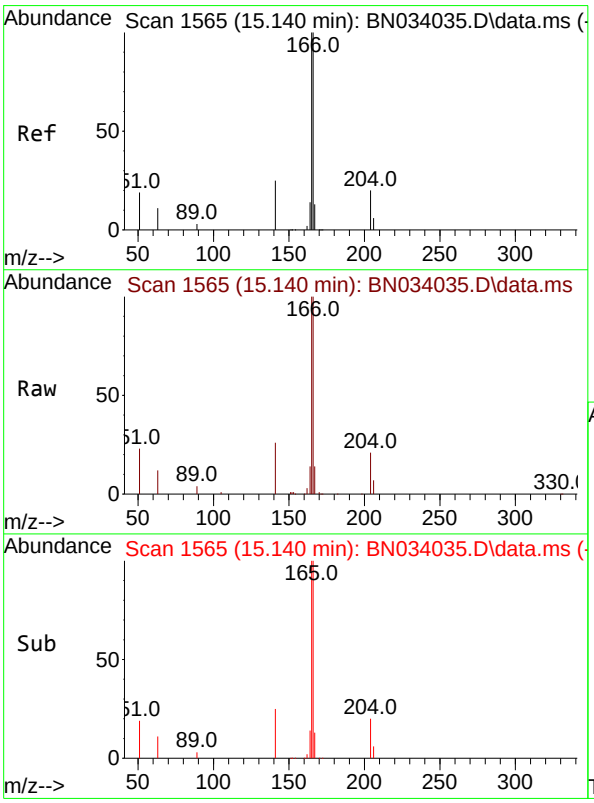
#17
Acenaphthene
Concen: 0.383 ng
RT: 14.146 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:154 Resp: 12987

Ion	Ratio	Lower	Upper
154	100		
153	114.5	91.6	137.4
152	59.3	47.4	71.2

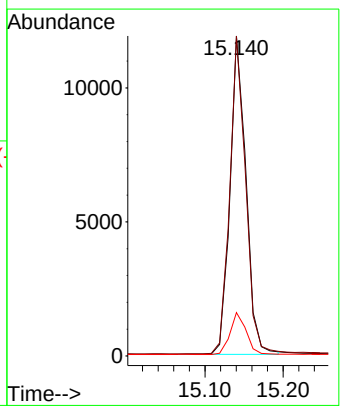


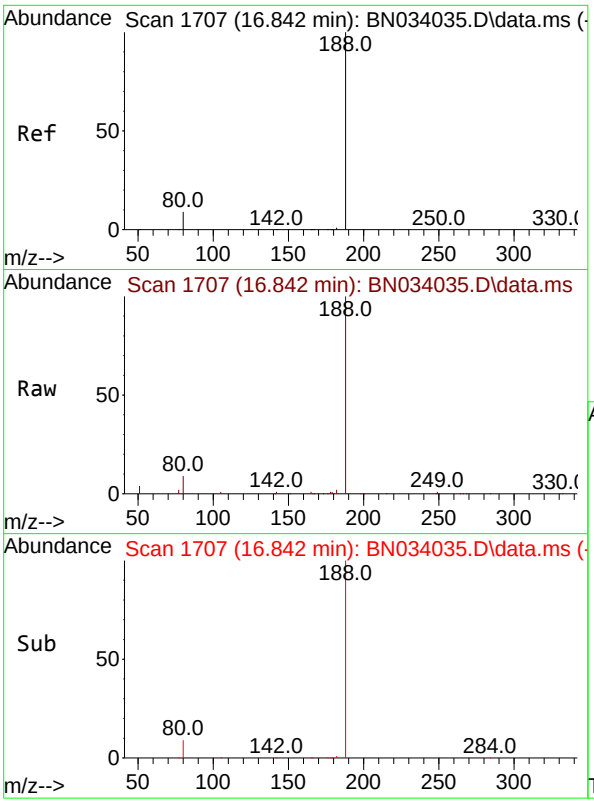


#18
Fluorene
Concen: 0.379 ng
RT: 15.140 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:166 Resp: 16895

Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.1	118.7
167	13.2	10.6	15.8



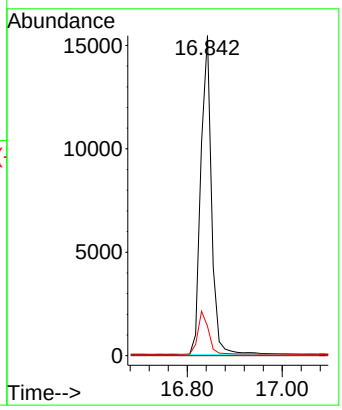


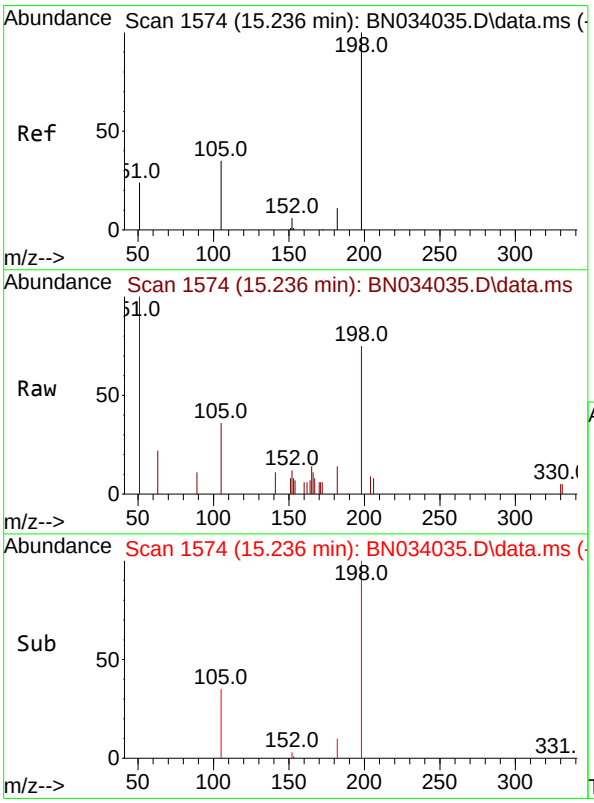
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.842 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:188 Resp: 24256

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.2	7.4	11.0

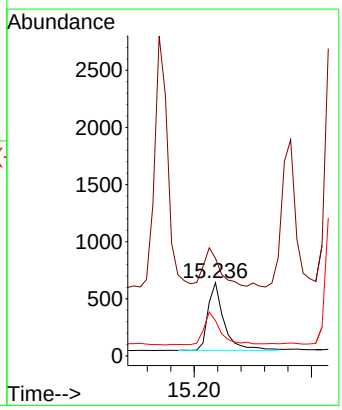


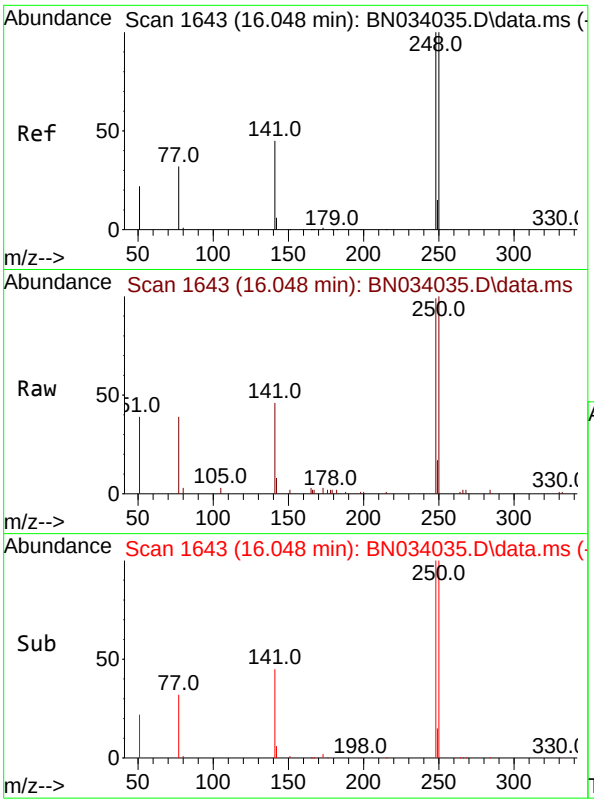


#20
4,6-Dinitro-2-methylphenol
Concen: 0.388 ng
RT: 15.236 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:198 Resp: 1127

Ion	Ratio	Lower	Upper
198	100		
51	133.0	106.4	159.6
105	48.1	38.5	57.7



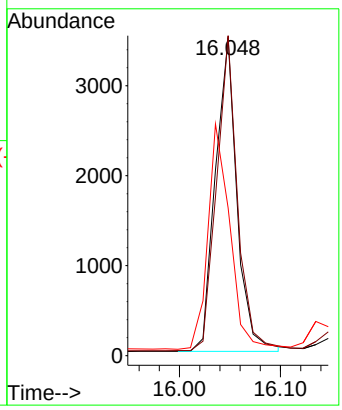


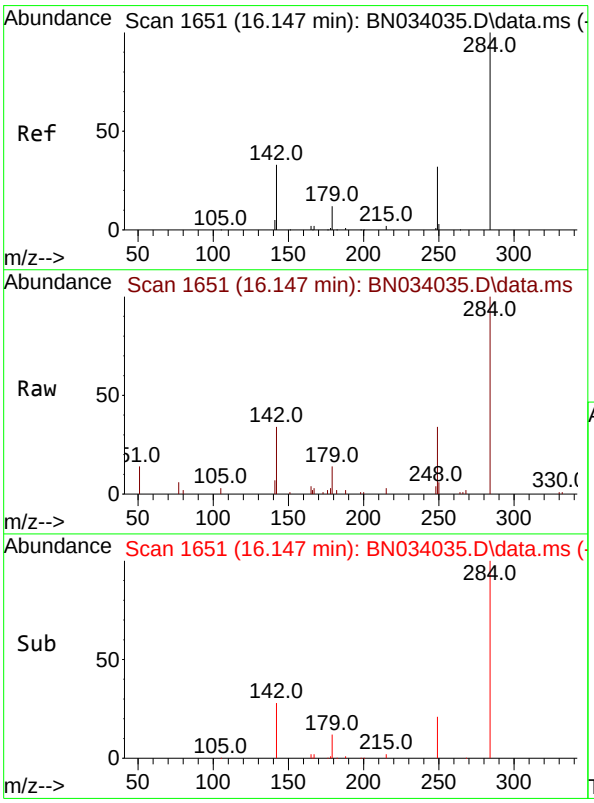
#21
4-Bromophenyl-phenylether
Concen: 0.379 ng
RT: 16.048 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:248 Resp: 5173

Ion	Ratio	Lower	Upper
248	100		
250	100.6	80.5	120.7
141	46.4	37.1	55.7

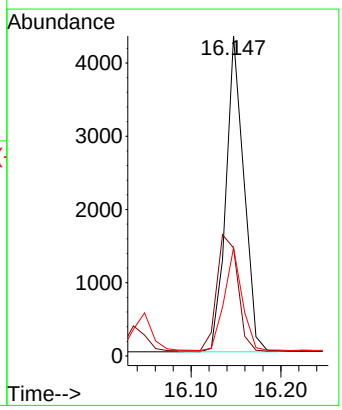


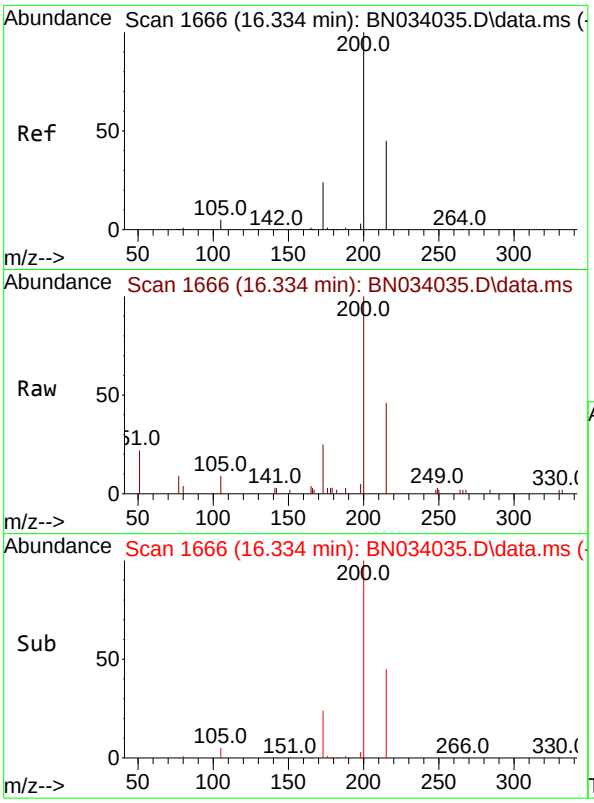


#22
Hexachlorobenzene
Concen: 0.393 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:284 Resp: 6010

Ion	Ratio	Lower	Upper
284	100		
142	43.1	34.5	51.7
249	32.1	25.8	38.6



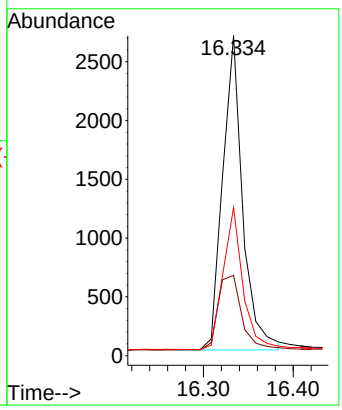


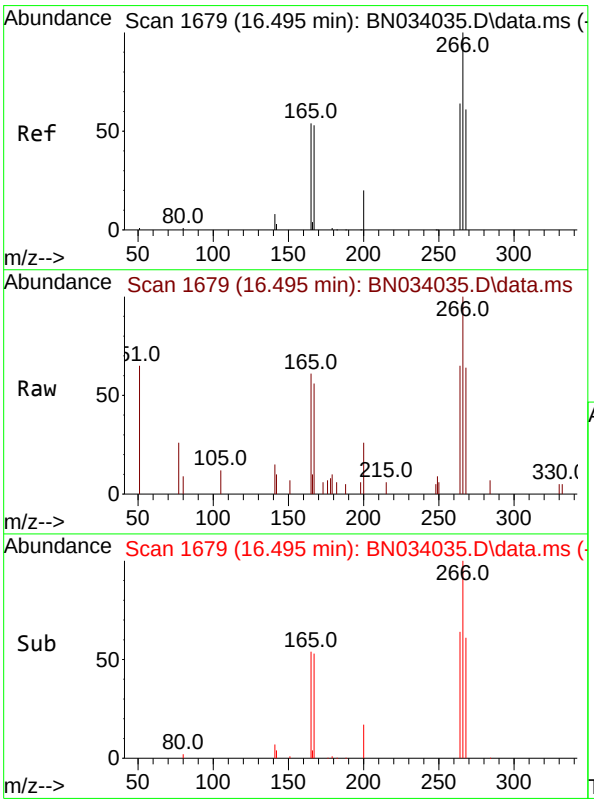
#23
Atrazine
Concen: 0.365 ng
RT: 16.334 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:200 Resp: 4123

Ion	Ratio	Lower	Upper
200	100		
173	25.1	20.1	30.1
215	46.3	37.0	55.6

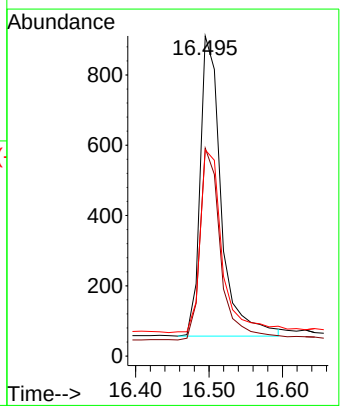


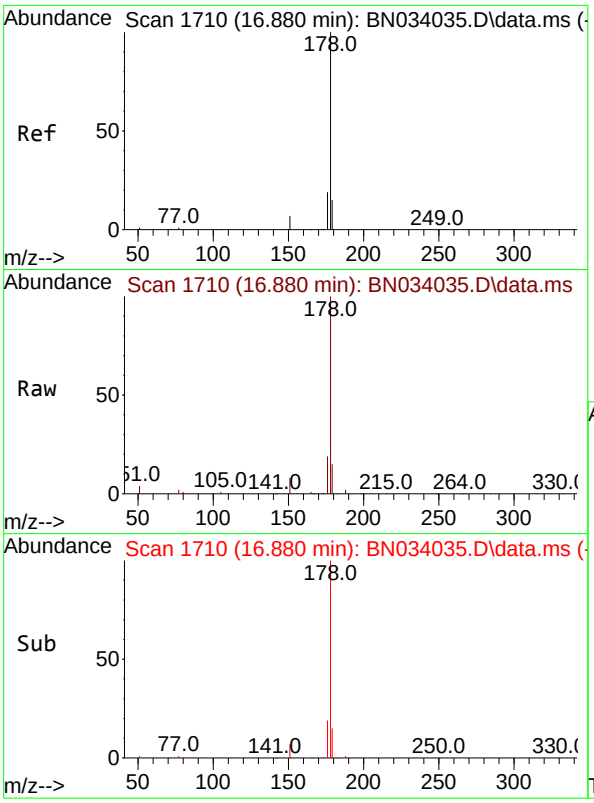


#24
Pentachlorophenol
Concen: 0.335 ng
RT: 16.495 min Scan# 1679
Delta R.T. -0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:266 Resp: 1695

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.2	75.2
268	62.9	51.0	76.4



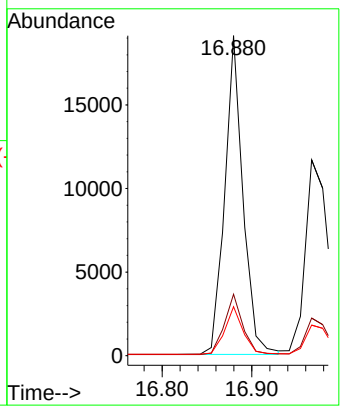


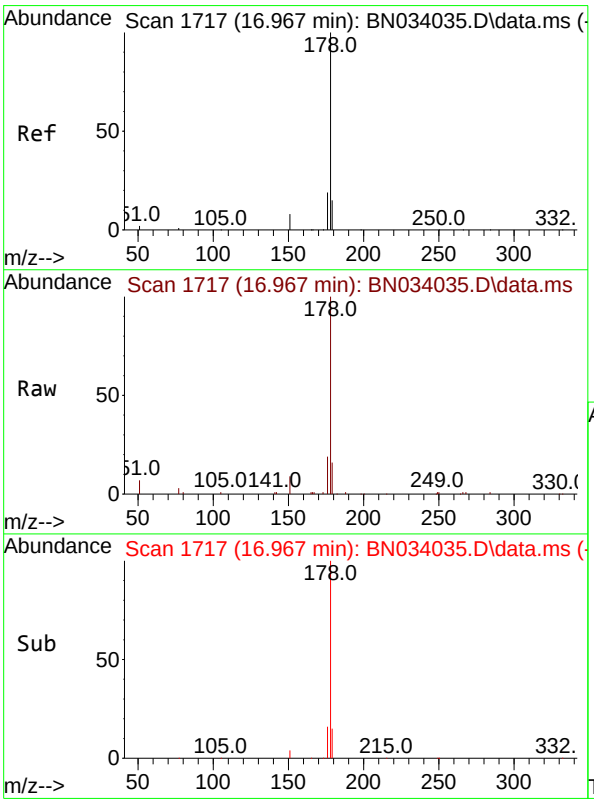
#25
Phenanthrene
Concen: 0.385 ng
RT: 16.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:178 Resp: 26847

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.1	12.1	18.1

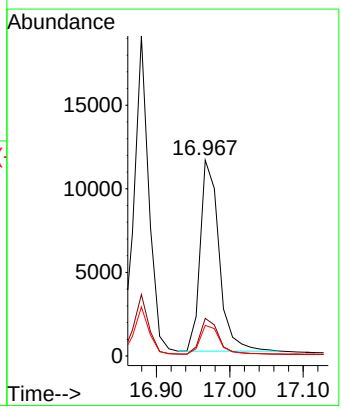


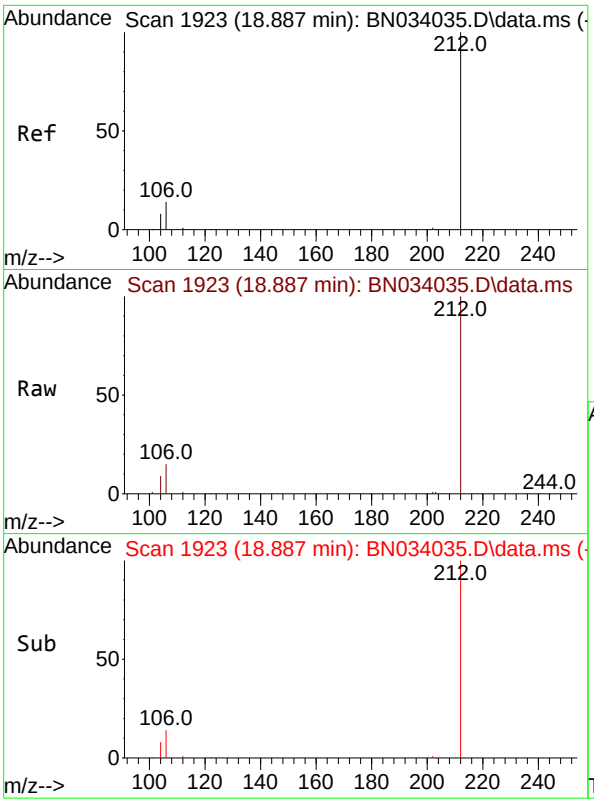


#26
Anthracene
Concen: 0.360 ng
RT: 16.967 min Scan# 1717
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:178 Resp: 20459

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.6
179	15.4	12.2	18.4



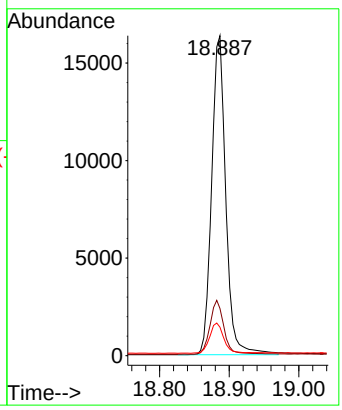


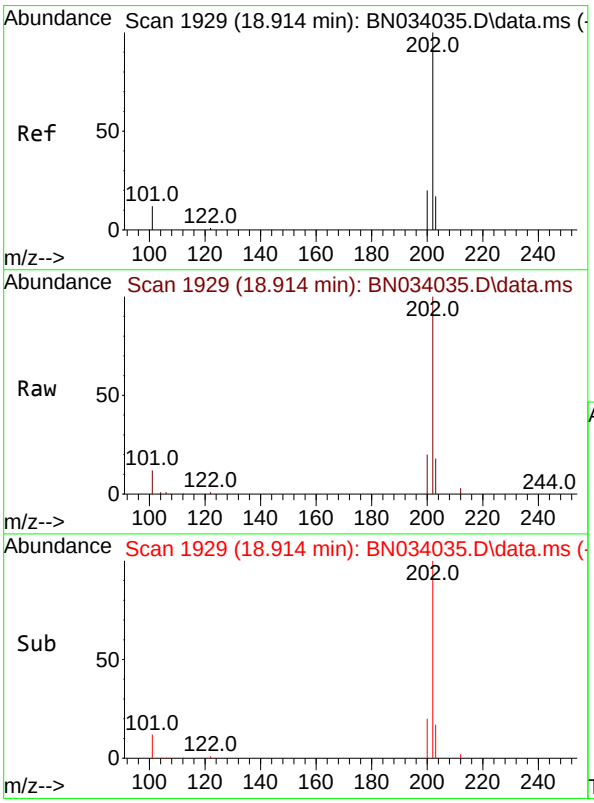
#27
Fluoranthene-d10
Concen: 0.378 ng
RT: 18.887 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:212 Resp: 23105

Ion	Ratio	Lower	Upper
212	100		
106	16.8	13.4	20.2
104	9.7	7.8	11.6

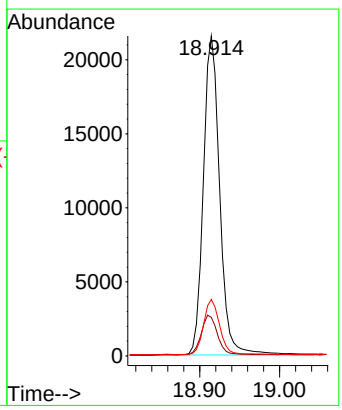


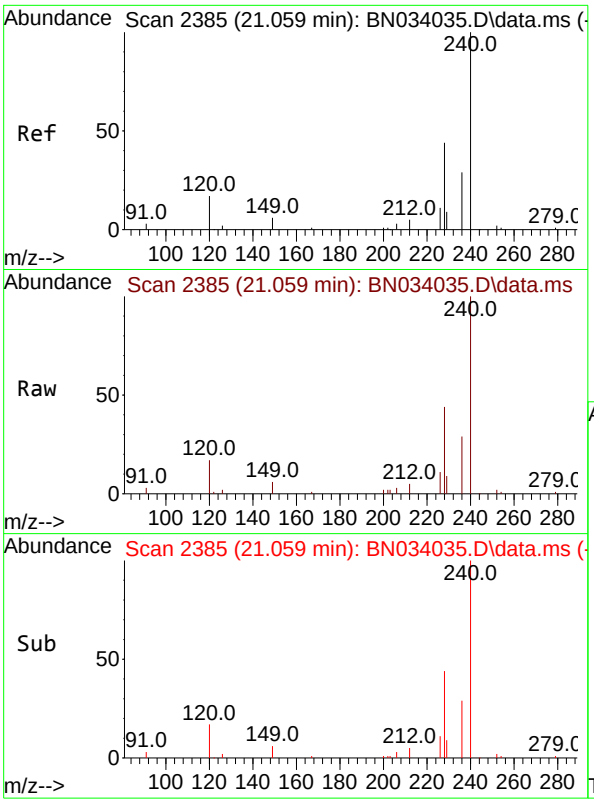


#28
Fluoranthene
Concen: 0.378 ng
RT: 18.914 min Scan# 1929
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:202 Resp: 30513

Ion	Ratio	Lower	Upper
202	100		
101	12.6	10.1	15.1
203	17.0	13.6	20.4



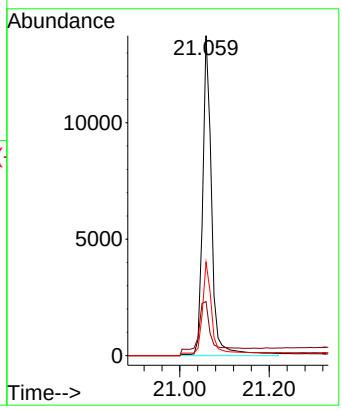


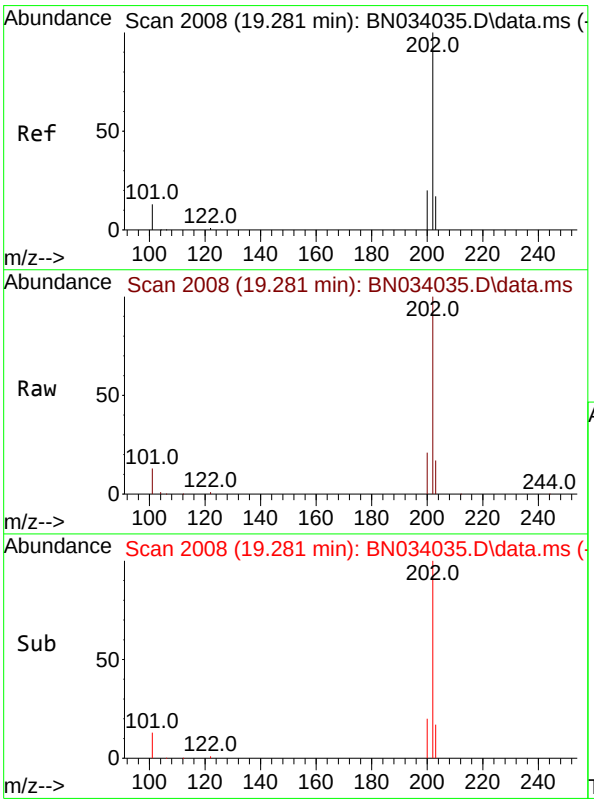
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.059 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:240 Resp: 18497

Ion	Ratio	Lower	Upper
240	100		
120	16.9	13.5	20.3
236	29.2	23.4	35.0

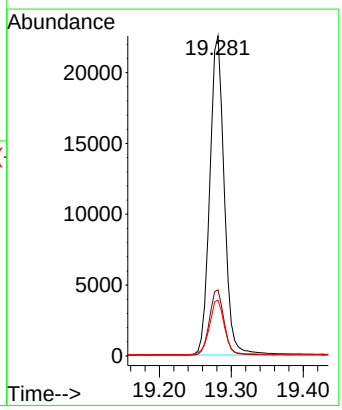


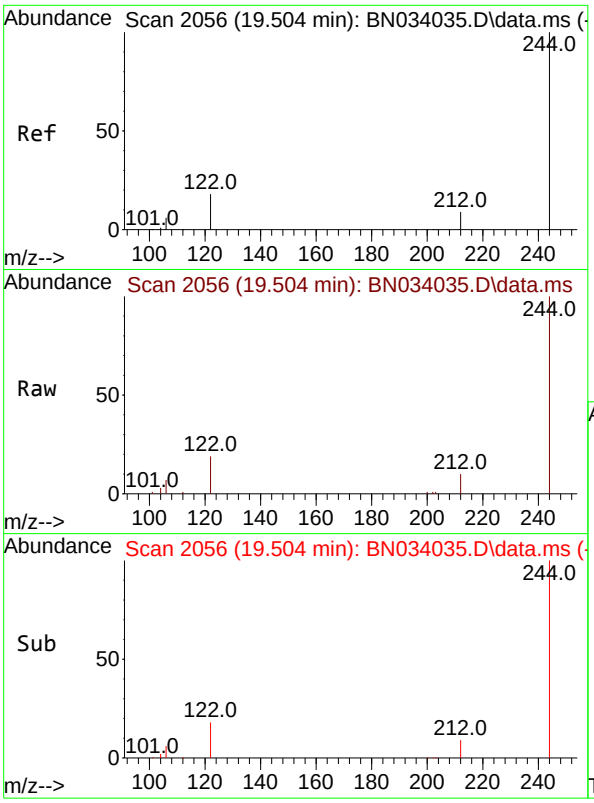


#30
Pyrene
Concen: 0.401 ng
RT: 19.281 min Scan# 2008
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:202 Resp: 31284

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.6	25.0
203	17.9	14.3	21.5



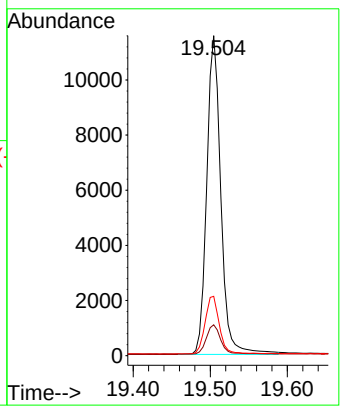


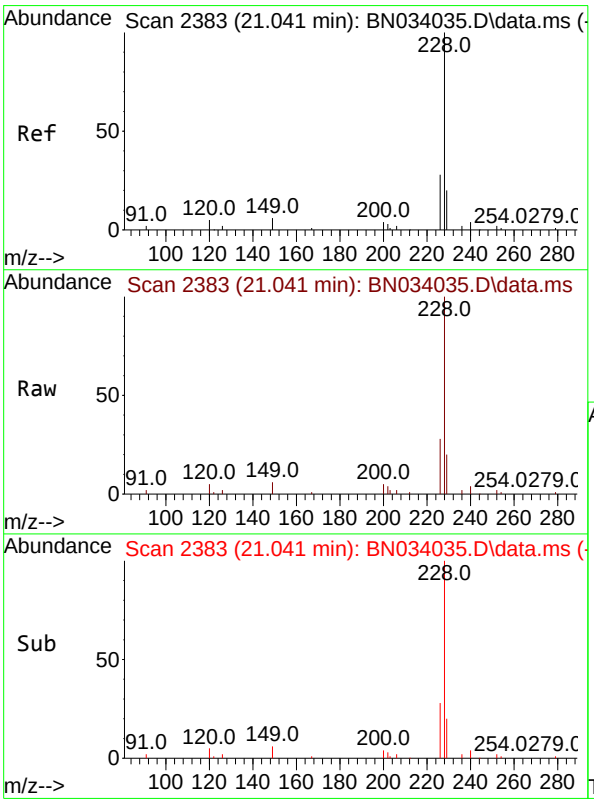
#31
Terphenyl-d14
Concen: 0.397 ng
RT: 19.504 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:244 Resp: 14682

Ion	Ratio	Lower	Upper
244	100		
212	9.7	7.8	11.6
122	18.5	14.8	22.2

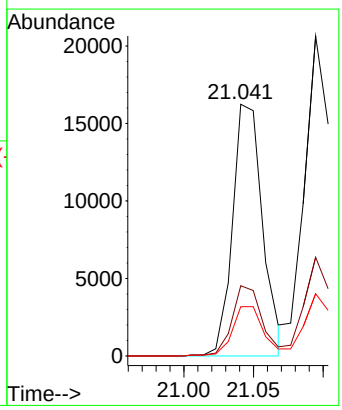


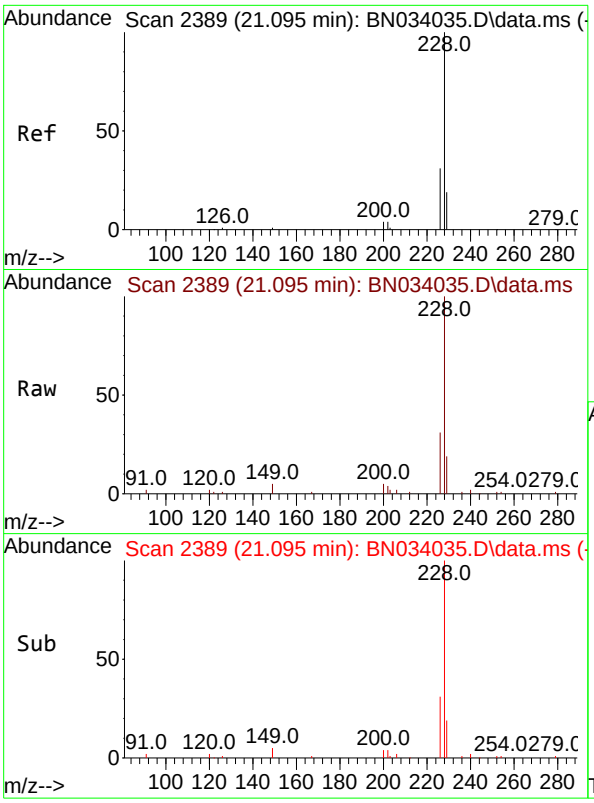


#32
Benzo(a)anthracene
Concen: 0.372 ng
RT: 21.041 min Scan# 2383
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:228 Resp: 21782

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.3	33.5
229	19.6	15.7	23.5



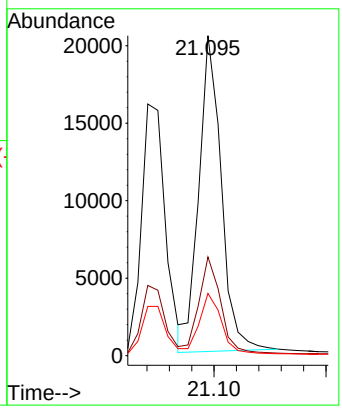


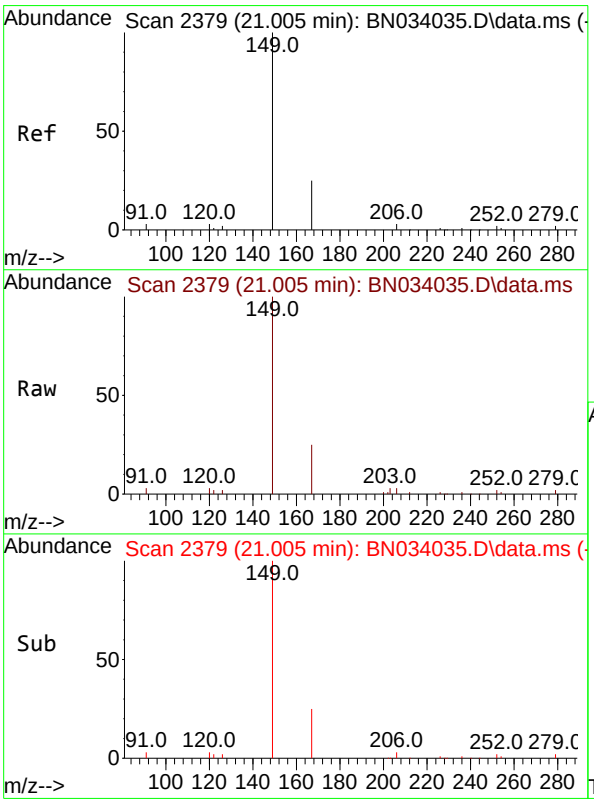
#33
Chrysene
Concen: 0.405 ng
RT: 21.095 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:228 Resp: 28280

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.4	15.5	23.3

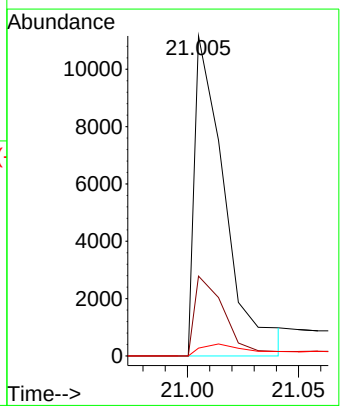


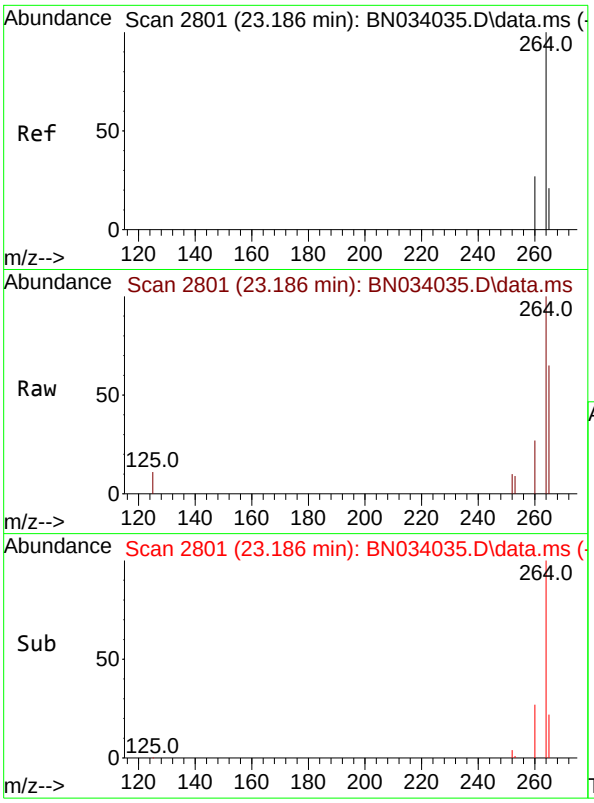


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.417 ng
RT: 21.005 min Scan# 2379
Delta R.T. -0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:149 Resp: 10166

Ion	Ratio	Lower	Upper
149	100		
167	24.9	19.9	29.9
279	5.7	4.6	6.8



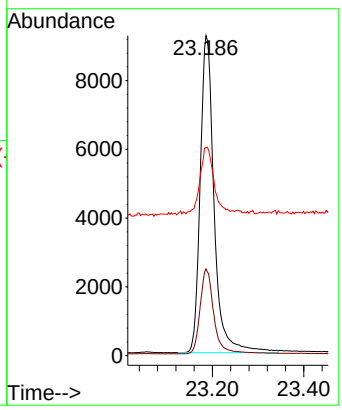


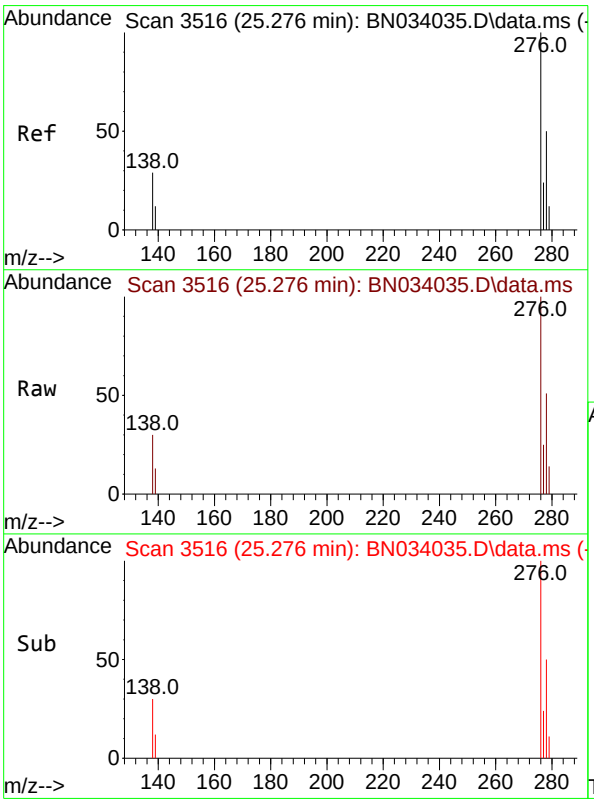
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.186 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:264 Resp: 19466

Ion	Ratio	Lower	Upper
264	100		
260	27.1	21.7	32.5
265	65.1	52.1	78.1

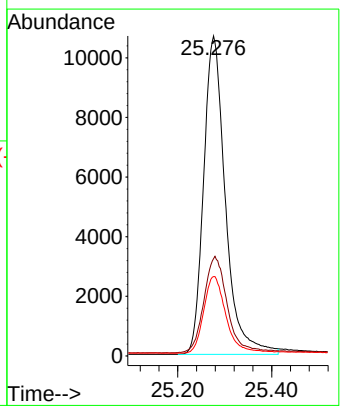


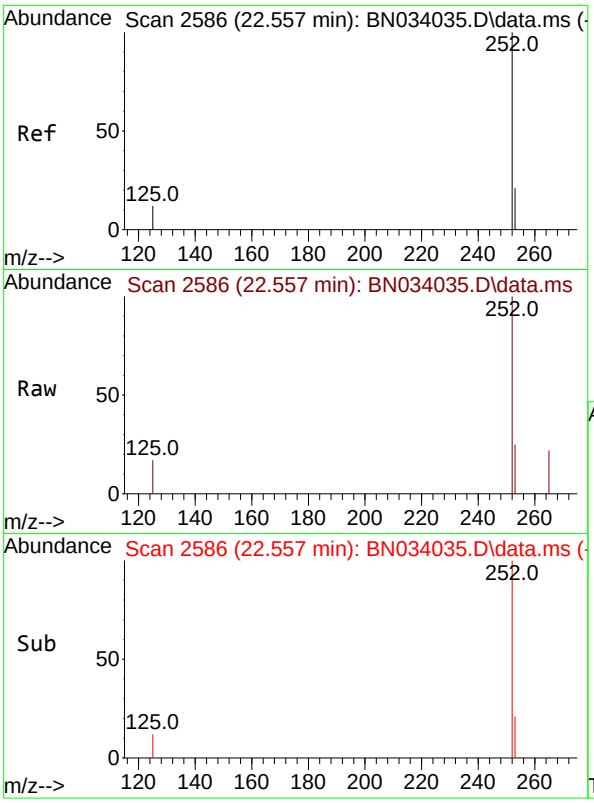


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.412 ng
RT: 25.276 min Scan# 3516
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:276 Resp: 34361

Ion	Ratio	Lower	Upper
276	100		
138	32.5	25.9	38.9
277	24.6	19.7	29.5



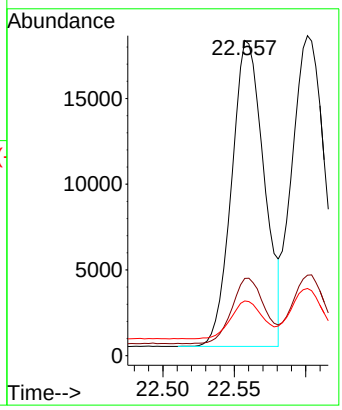


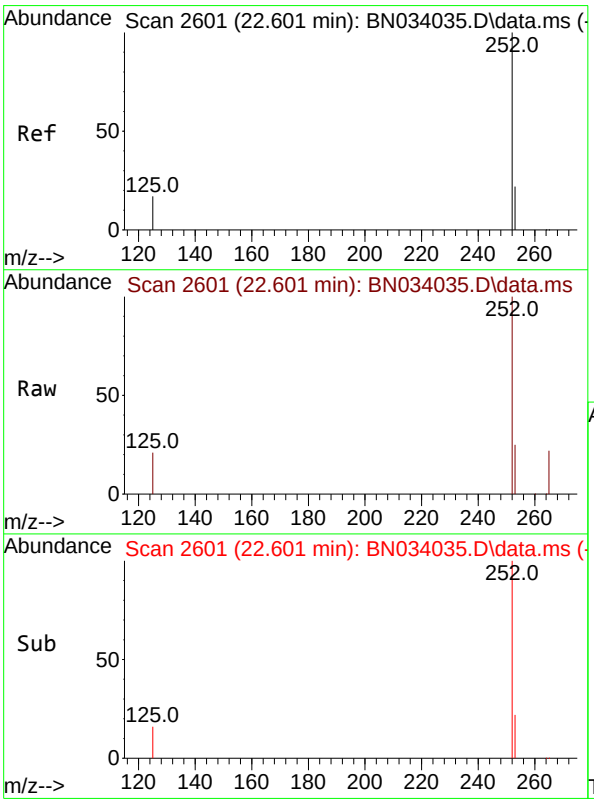
#37
Benzo(b)fluoranthene
Concen: 0.371 ng
RT: 22.557 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 28282

Ion	Ratio	Lower	Upper
252	100		
253	24.5	19.6	29.4
125	17.3	13.8	20.8

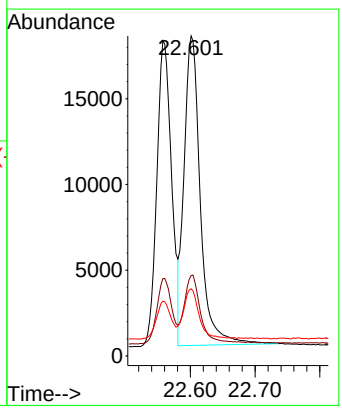


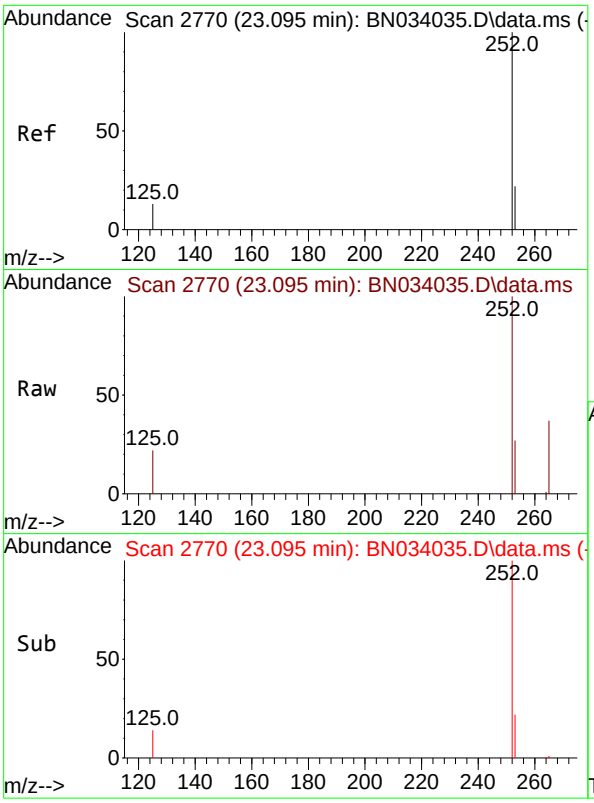


#38
Benzo(k)fluoranthene
Concen: 0.395 ng
RT: 22.601 min Scan# 2601
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:252 Resp: 31658

Ion	Ratio	Lower	Upper
252	100		
253	25.1	20.1	30.1
125	21.0	16.8	25.2



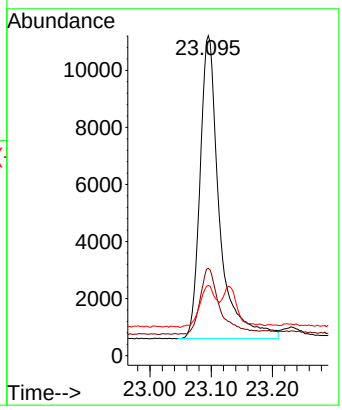


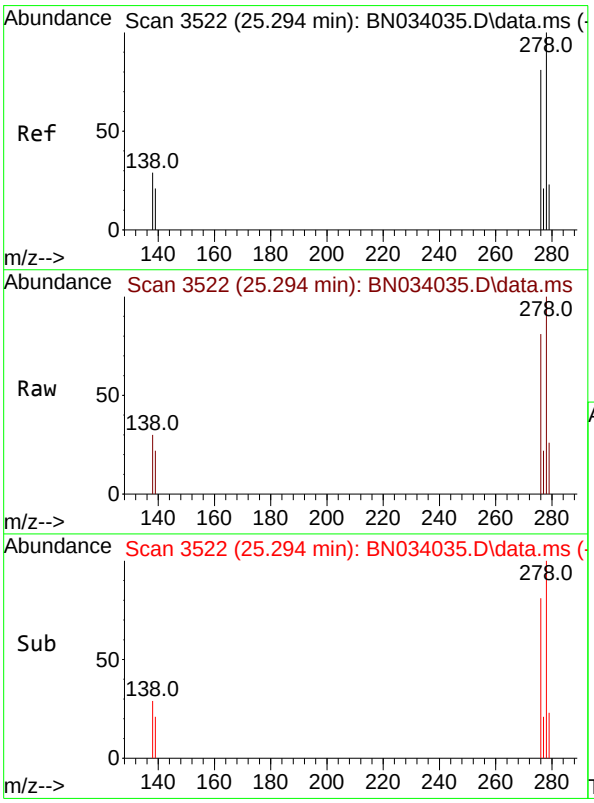
#39
Benzo(a)pyrene
Concen: 0.375 ng
RT: 23.095 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:252 Resp: 23302

Ion	Ratio	Lower	Upper
252	100		
253	27.3	21.8	32.8
125	21.9	17.5	26.3

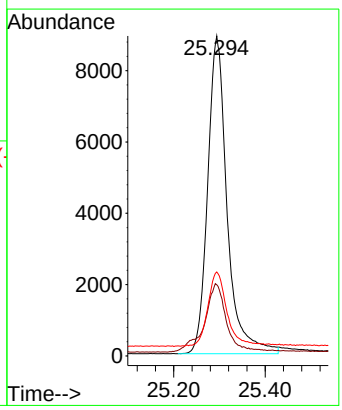


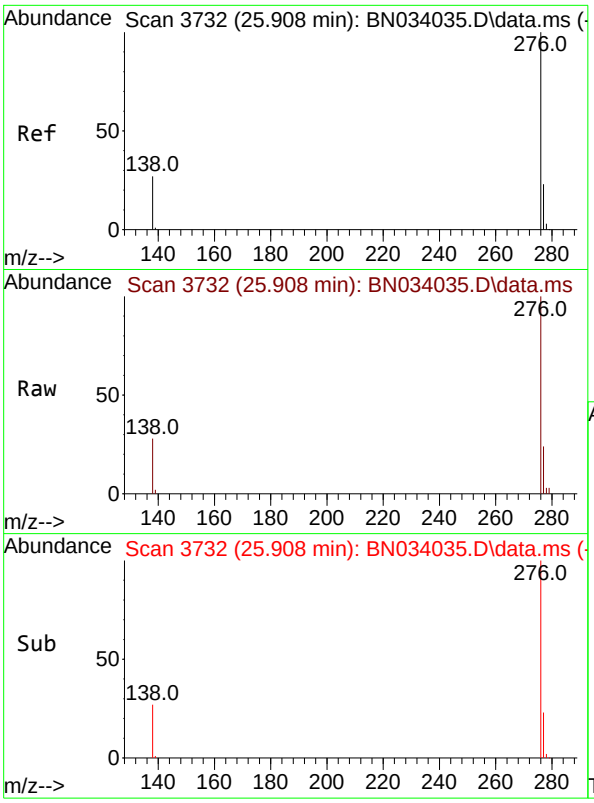


#40
Dibenzo(a,h)anthracene
Concen: 0.406 ng
RT: 25.294 min Scan# 3522
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Tgt Ion:278 Resp: 26318

Ion	Ratio	Lower	Upper
278	100		
139	22.3	17.8	26.8
279	26.3	21.0	31.6



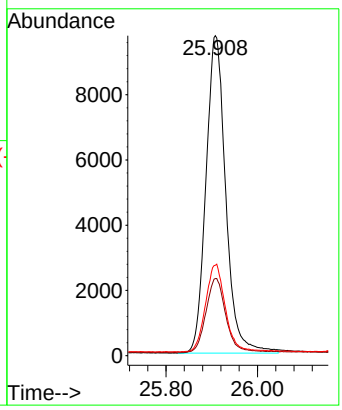


#41
Benzo(g,h,i)perylene
Concen: 0.402 ng
RT: 25.908 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN034035.D
Acq: 18 Sep 2024 13:05

Instrument :
BNA_N
ClientSampleId :
SSTDICCC0.4

Tgt Ion:276 Resp: 29289

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.3	28.9
138	28.3	22.6	34.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034036.D
Acq On : 18 Sep 2024 13:41
Operator : JU/RC
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Sep 18 16:14:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.437	152	8457	0.400	ng		0.00
7) Naphthalene-d8	10.197	136	24297	0.400	ng		0.00
13) Acenaphthene-d10	14.082	164	14114	0.400	ng		0.00
19) Phenanthrene-d10	16.842	188	31835	0.400	ng		0.00
29) Chrysene-d12	21.059	240	25814	0.400	ng		0.00
35) Perylene-d12	23.186	264	25510	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.075	112	20343	0.848	ng		0.00
5) Phenol-d6	6.635	99	23788	0.852	ng		0.00
8) Nitrobenzene-d5	8.574	82	16083	0.865	ng		0.00
11) 2-Methylnaphthalene-d10	11.794	152	30642	0.854	ng		0.00
14) 2,4,6-Tribromophenol	15.589	330	5273	0.825	ng		0.00
15) 2-Fluorobiphenyl	12.692	172	48622	0.847	ng		-0.01
27) Fluoranthene-d10	18.882	212	67435	0.840	ng		0.00
31) Terphenyl-d14	19.505	244	43487	0.843	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.082	88	8513	0.805	ng		92
3) n-Nitrosodimethylamine	3.378	42	10375	0.862	ng	#	98
6) bis(2-Chloroethyl)ether	6.881	93	21590	0.874	ng		99
9) Naphthalene	10.240	128	56897	0.853	ng		99
10) Hexachlorobutadiene	10.539	225	10648	0.848	ng	#	100
12) 2-Methylnaphthalene	11.869	142	37074	0.854	ng		99
16) Acenaphthylene	13.793	152	50928	0.843	ng		100
17) Acenaphthene	14.146	154	36642	0.846	ng		99
18) Fluorene	15.140	166	48102	0.846	ng		100
20) 4,6-Dinitro-2-methylph...	15.236	198	3863	0.792	ng	#	44
21) 4-Bromophenyl-phenylether	16.048	248	14996	0.838	ng		98
22) Hexachlorobenzene	16.147	284	16483	0.821	ng		99
23) Atrazine	16.334	200	12586	0.849	ng		98
24) Pentachlorophenol	16.495	266	5614	0.846	ng		100
25) Phenanthrene	16.880	178	76155	0.833	ng		100
26) Anthracene	16.967	178	62736	0.841	ng		99
28) Fluoranthene	18.915	202	89443	0.845	ng		100
30) Pyrene	19.282	202	91043	0.836	ng		100
32) Benzo(a)anthracene	21.041	228	69334	0.849	ng		100
33) Chrysene	21.095	228	83124	0.853	ng		99
34) Bis(2-ethylhexyl)phtha...	21.005	149	25688	0.755	ng	#	97
36) Indeno(1,2,3-cd)pyrene	25.270	276	95053	0.870	ng		100
37) Benzo(b)fluoranthene	22.557	252	82914	0.830	ng		94
38) Benzo(k)fluoranthene	22.601	252	89093	0.849	ng	#	91
39) Benzo(a)pyrene	23.092	252	68137	0.837	ng	#	90
40) Dibenzo(a,h)anthracene	25.288	278	74377	0.876	ng		97
41) Benzo(g,h,i)perylene	25.908	276	82049	0.860	ng		99

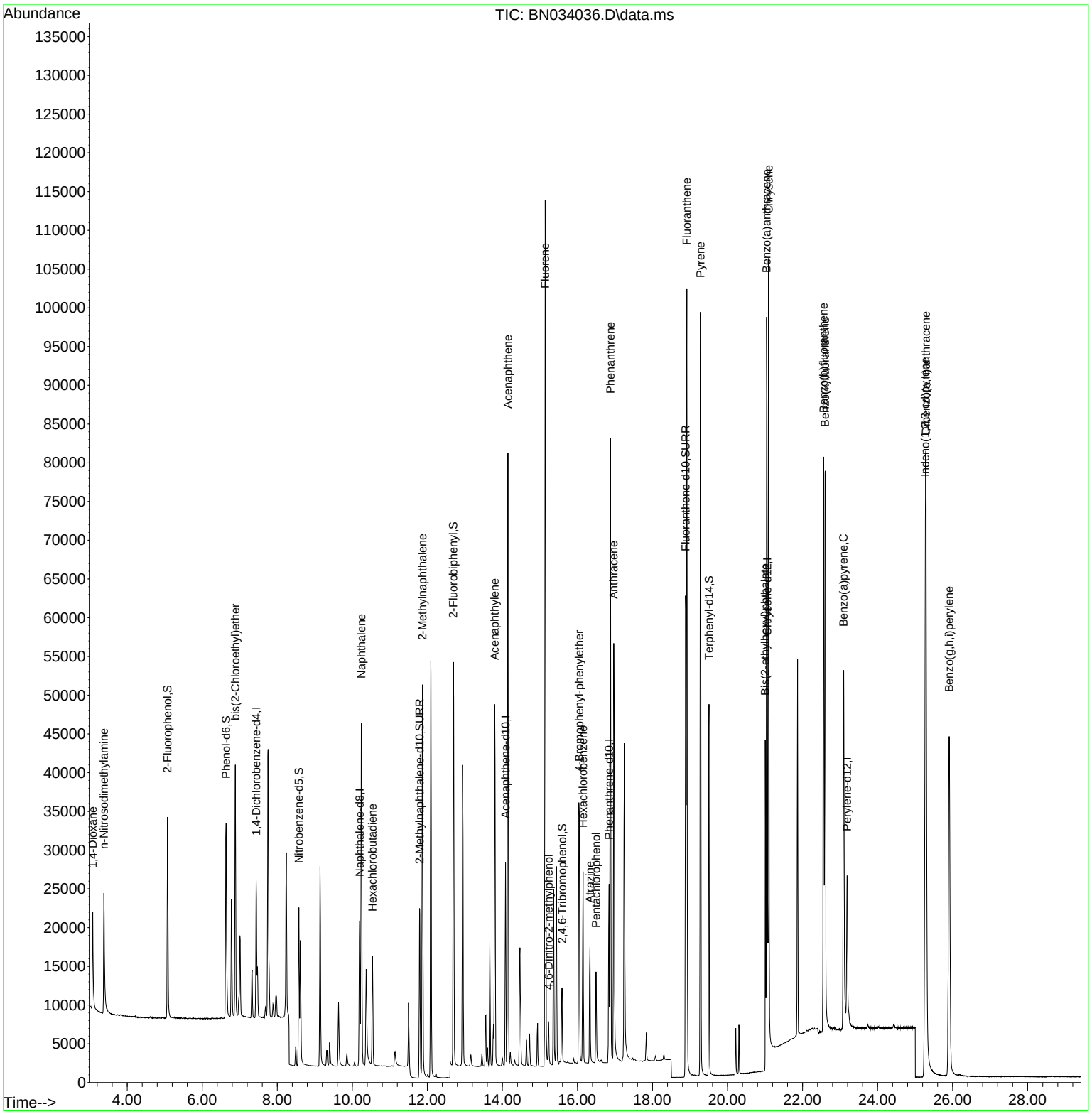
(#) = qualifier out of range (m) = manual integration (+) = signals summed

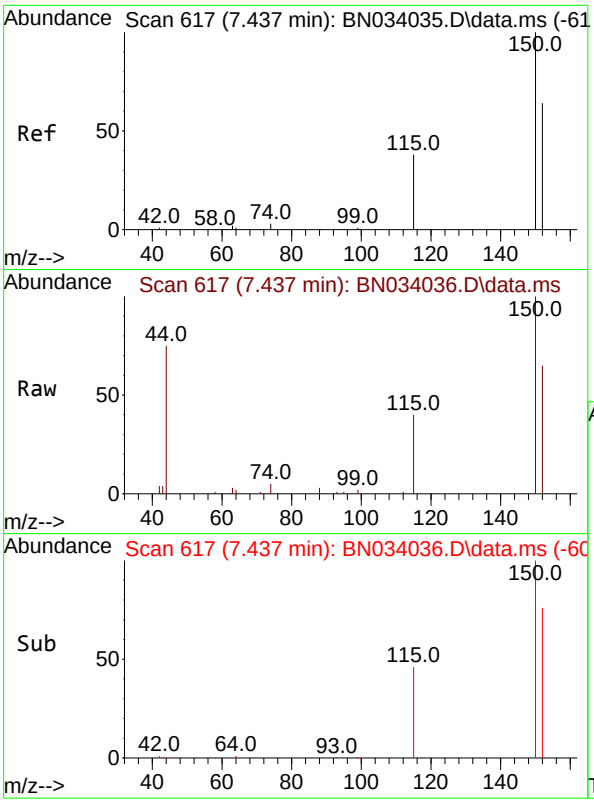
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034036.D
Acq On : 18 Sep 2024 13:41
Operator : JU/RC
Sample : SSTDICC0.8
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Quant Time: Sep 18 16:14:55 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



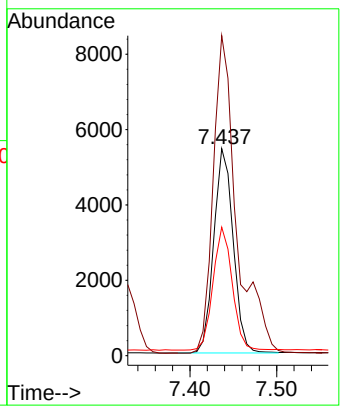


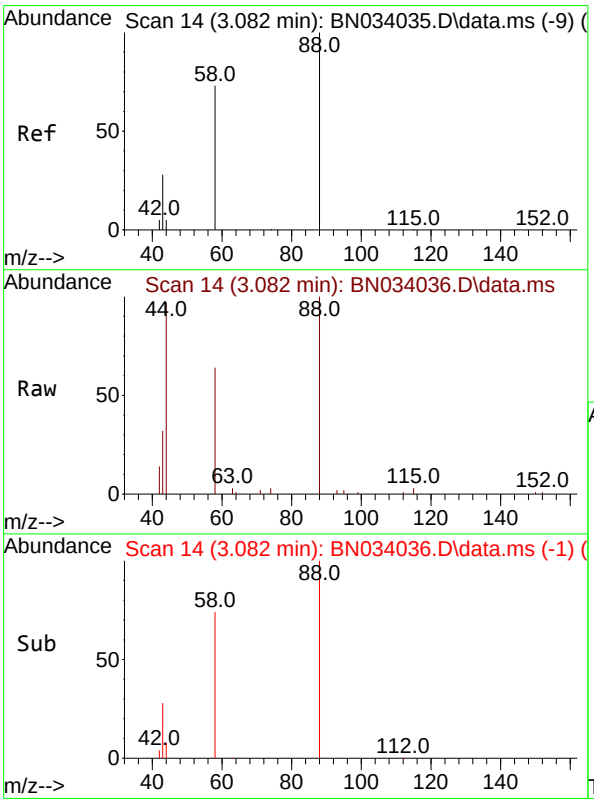
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.437 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 8457

Ion	Ratio	Lower	Upper
152	100		
150	154.6	124.6	187.0
115	62.1	50.0	75.0

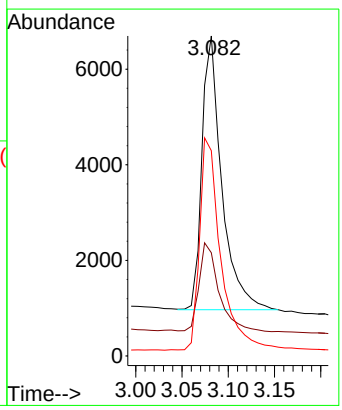


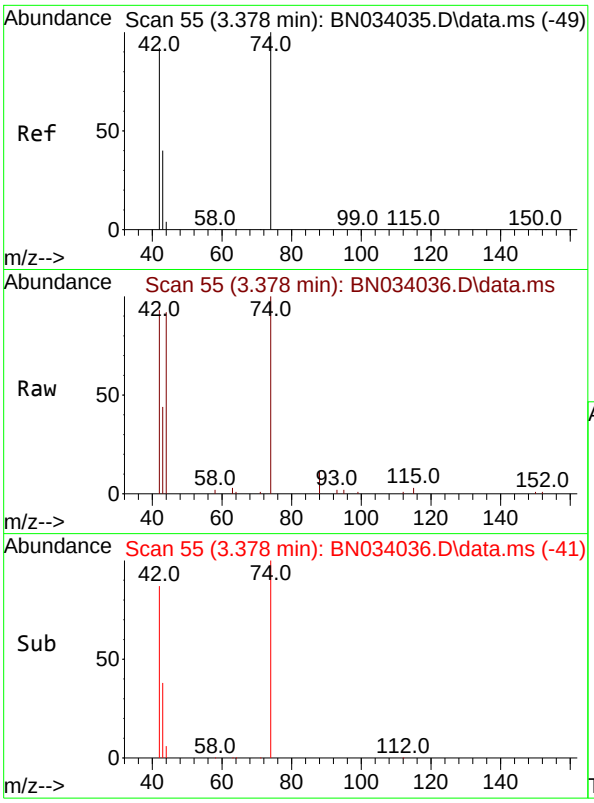


#2
1,4-Dioxane
Concen: 0.805 ng
RT: 3.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion: 88 Resp: 8513

Ion	Ratio	Lower	Upper
88	100		
43	32.9	25.8	38.8
58	83.0	58.8	88.2



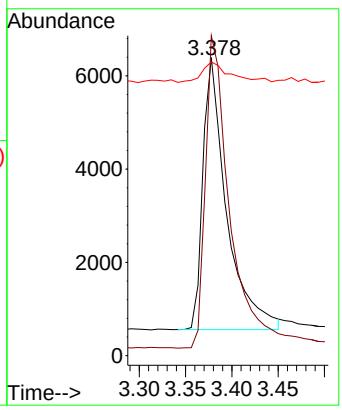


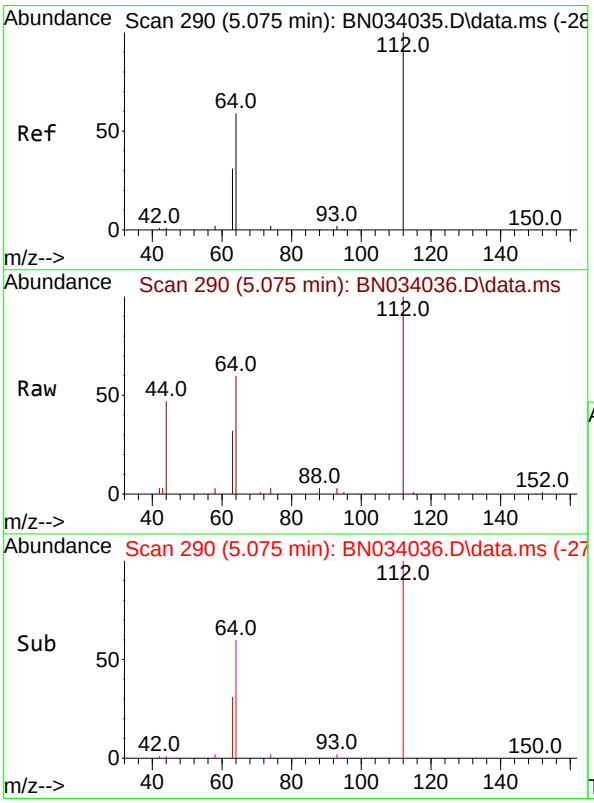
#3
n-Nitrosodimethylamine
Concen: 0.862 ng
RT: 3.378 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 42 Resp: 10375

Ion	Ratio	Lower	Upper
42	100		
74	117.9	94.6	142.0
44	8.8	12.4	18.6#

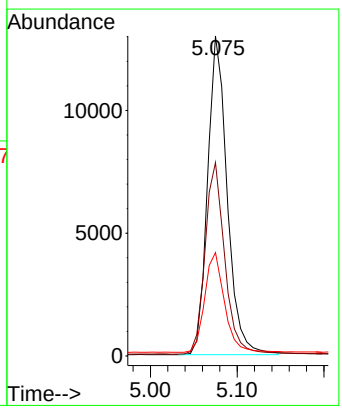


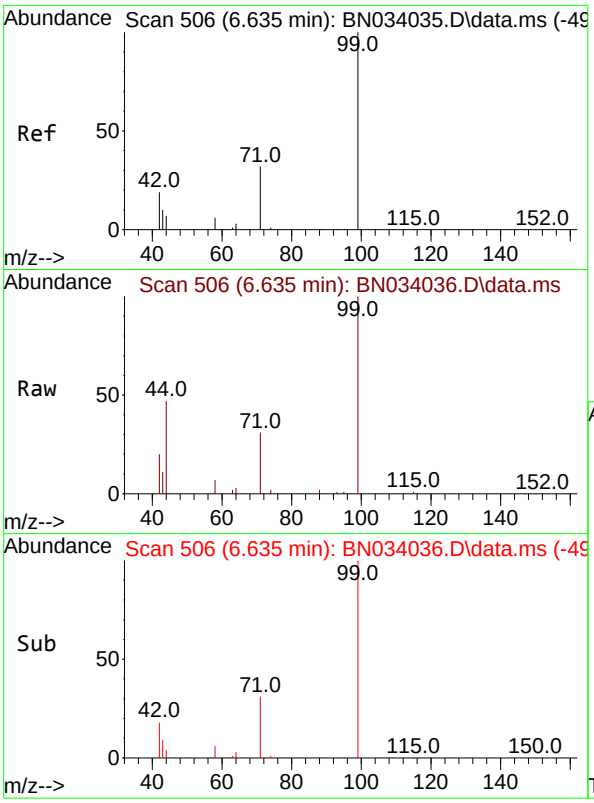


#4
2-Fluorophenol
Concen: 0.848 ng
RT: 5.075 min Scan# 290
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:112 Resp: 20343

Ion	Ratio	Lower	Upper
112	100		
64	60.4	48.6	72.8
63	31.6	25.6	38.4



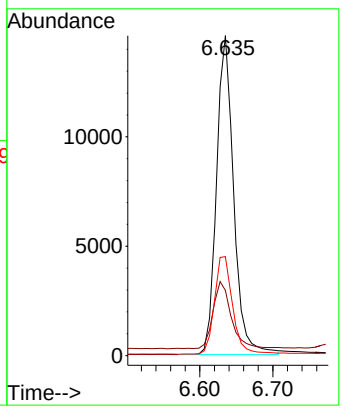


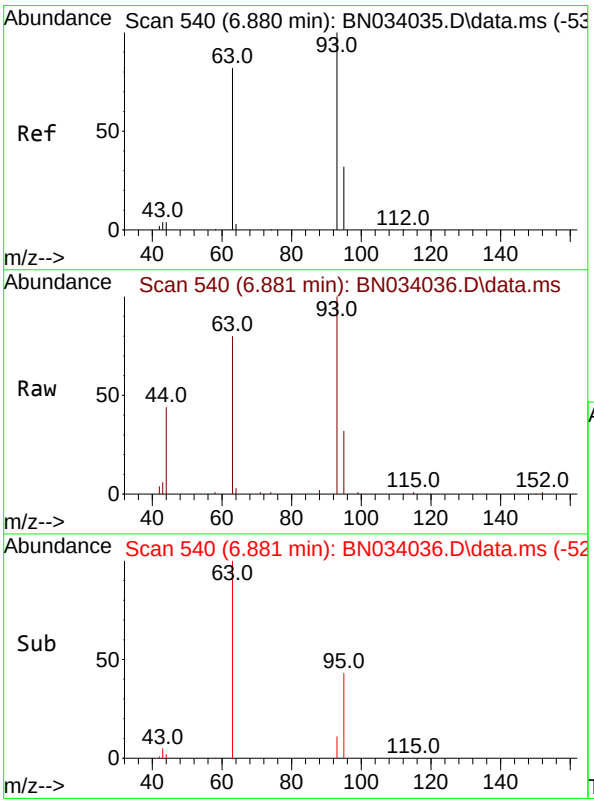
#5
Phenol-d6
Concen: 0.852 ng
RT: 6.635 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion: 99 Resp: 23788

Ion	Ratio	Lower	Upper
99	100		
42	22.0	17.8	26.8
71	32.4	26.2	39.2

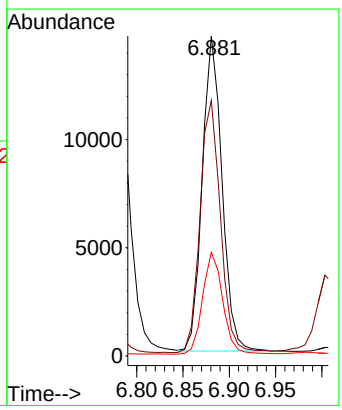


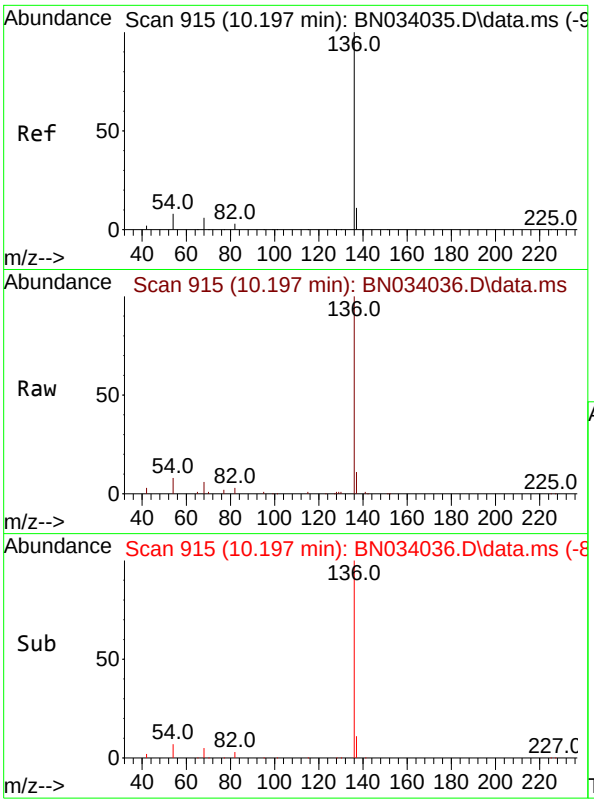


#6
bis(2-Chloroethyl)ether
Concen: 0.874 ng
RT: 6.881 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion: 93 Resp: 21590

Ion	Ratio	Lower	Upper
93	100		
63	82.8	67.3	100.9
95	32.9	26.8	40.2



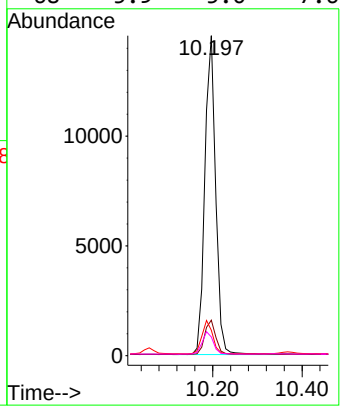


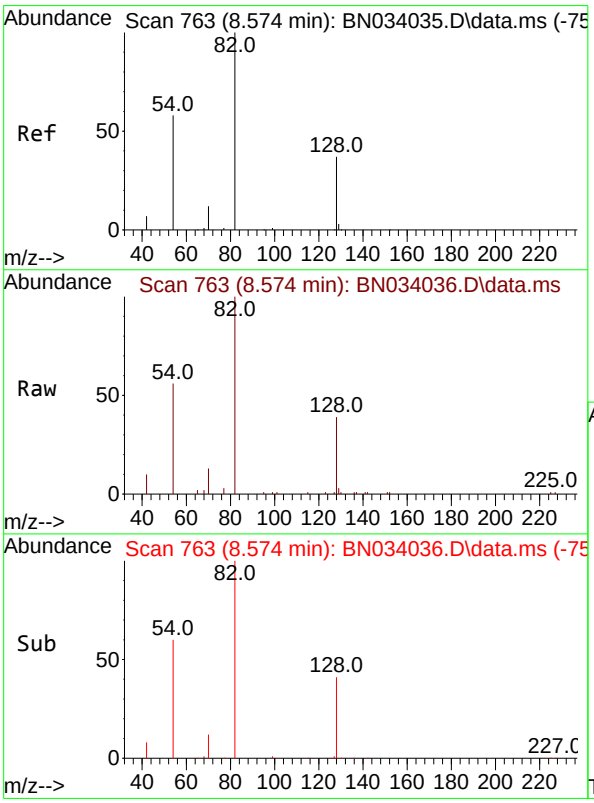
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.197 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:136 Resp: 24297

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	7.9	6.8	10.2
68	5.9	5.0	7.6

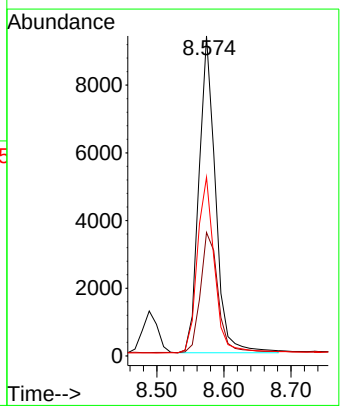


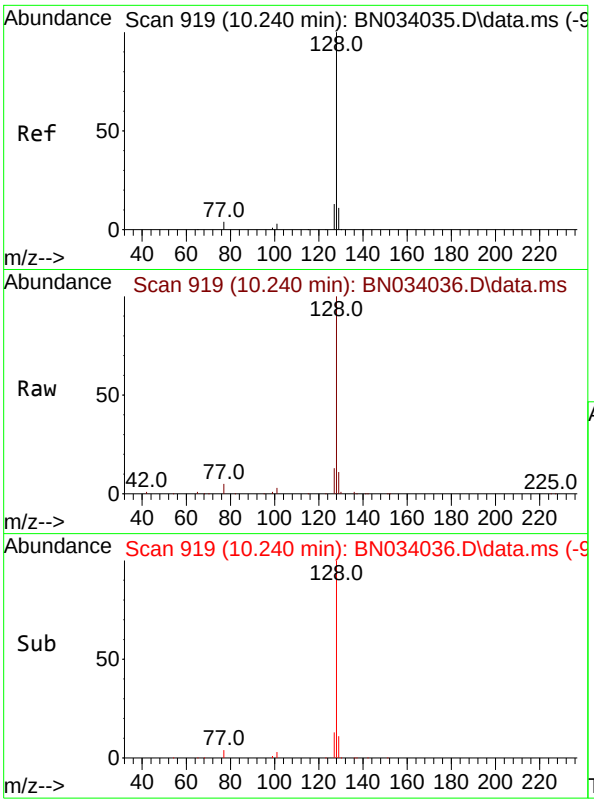


#8
Nitrobenzene-d5
Concen: 0.865 ng
RT: 8.574 min Scan# 763
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion: 82 Resp: 16083

Ion	Ratio	Lower	Upper
82	100		
128	38.6	31.4	47.2
54	55.9	47.4	71.0



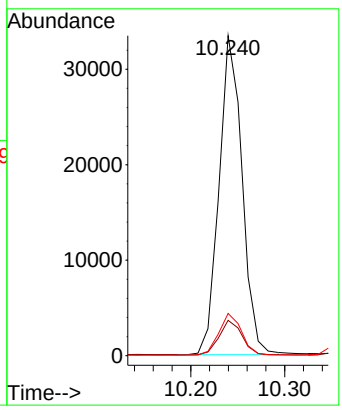


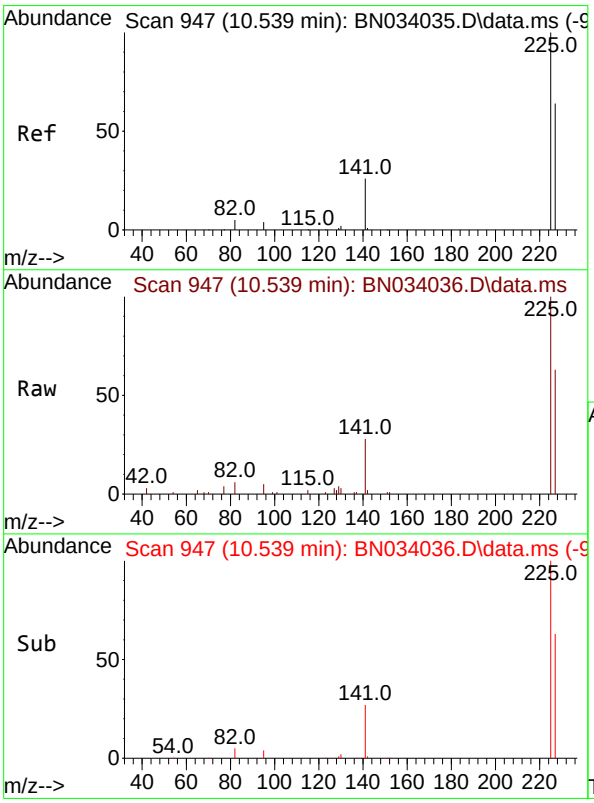
#9
Naphthalene
Concen: 0.853 ng
RT: 10.240 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:128 Resp: 56897

Ion	Ratio	Lower	Upper
128	100		
129	11.1	9.2	13.8
127	13.2	10.7	16.1

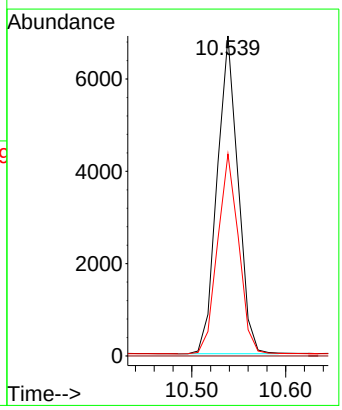


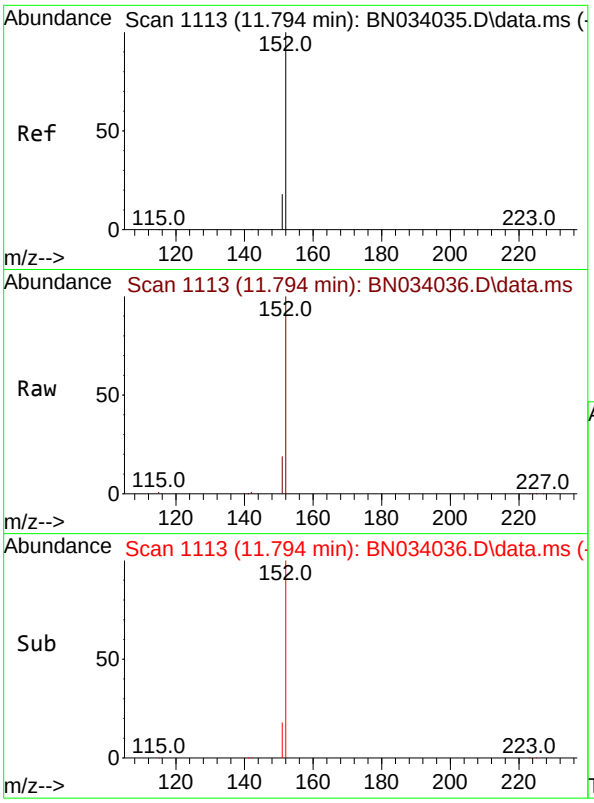


#10
Hexachlorobutadiene
Concen: 0.848 ng
RT: 10.539 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:225 Resp: 10648

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	50.5	75.7



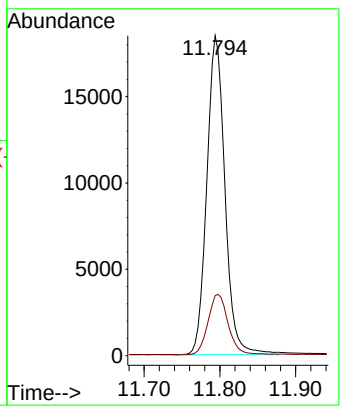


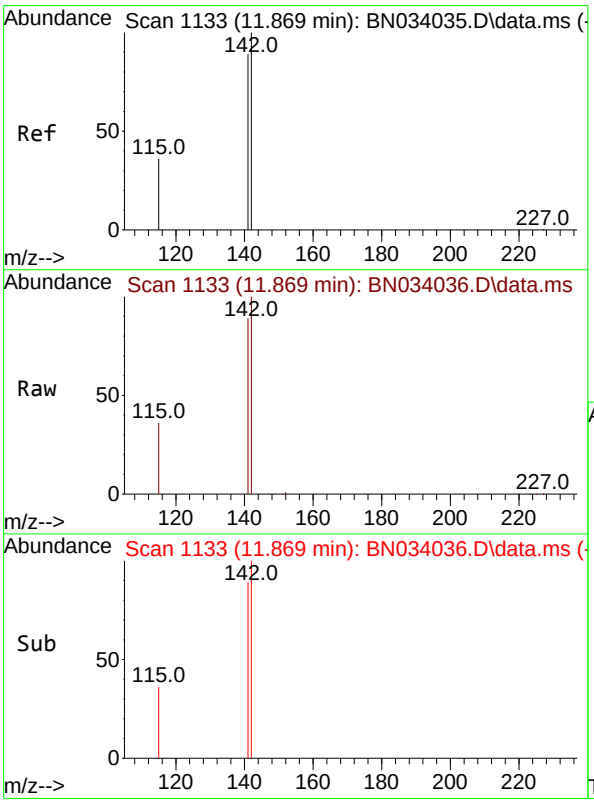
#11
2-Methylnaphthalene-d10
Concen: 0.854 ng
RT: 11.794 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:152 Resp: 30642

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.8	25.2

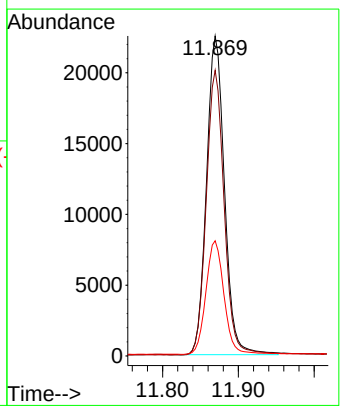


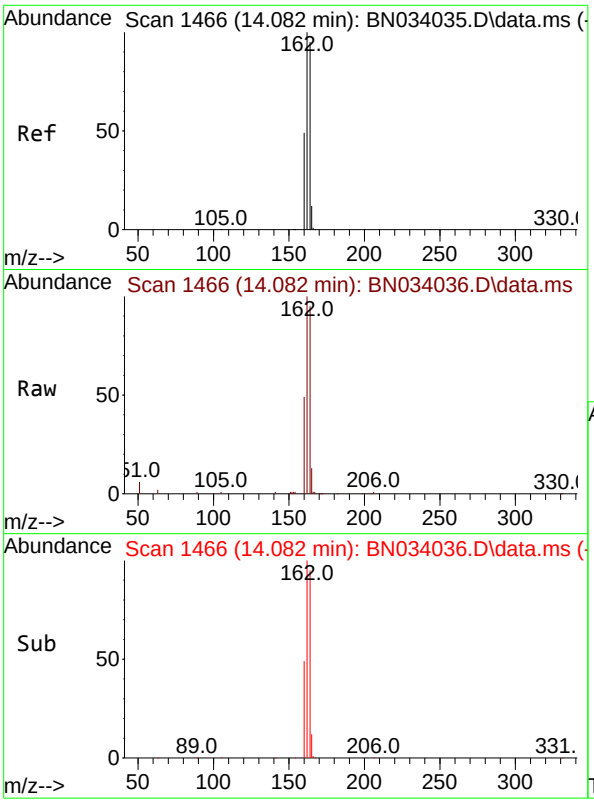


#12
2-Methylnaphthalene
Concen: 0.854 ng
RT: 11.869 min Scan# 1133
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:142 Resp: 37074

Ion	Ratio	Lower	Upper
142	100		
141	89.2	71.6	107.4
115	36.0	30.0	45.0



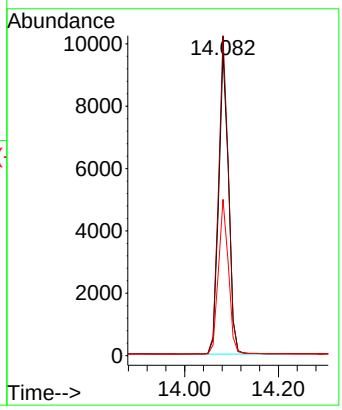


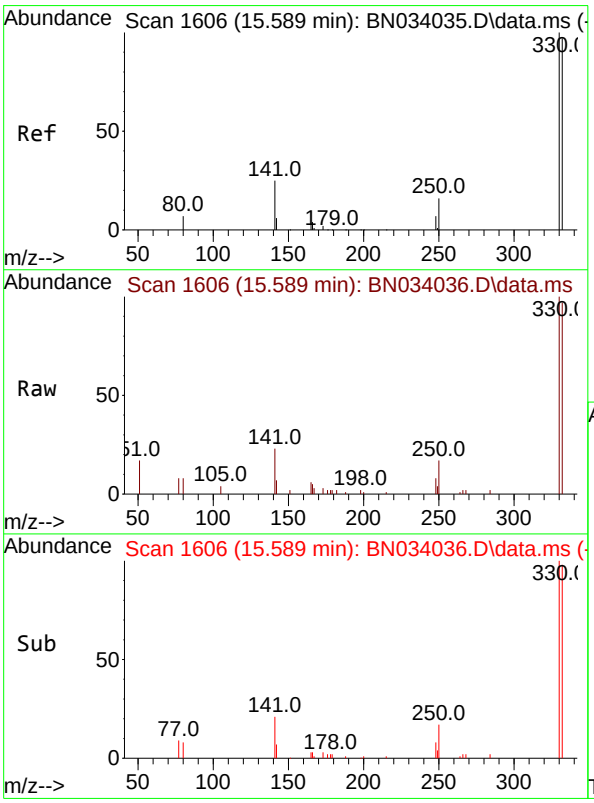
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:164 Resp: 14114

Ion	Ratio	Lower	Upper
164	100		
162	105.5	84.2	126.2
160	51.6	41.7	62.5

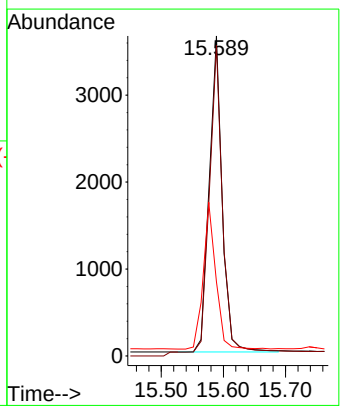


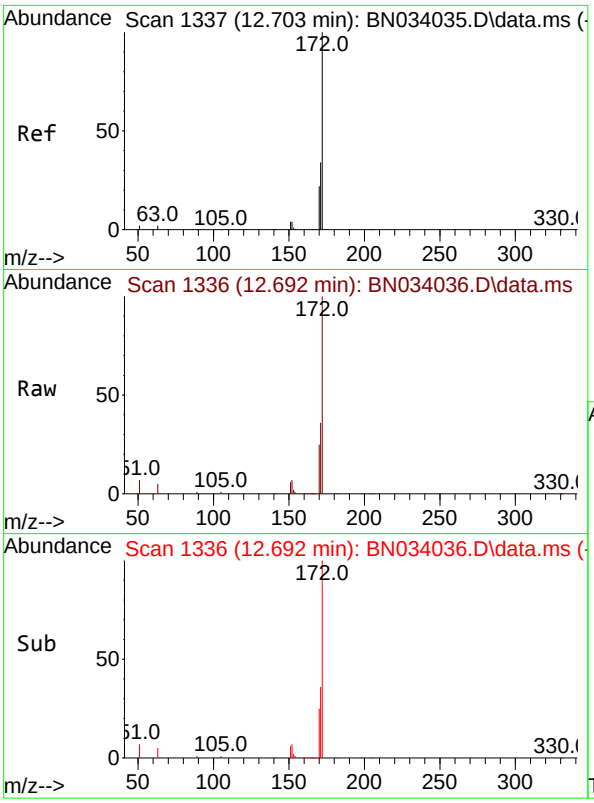


#14
2,4,6-Tribromophenol
Concen: 0.825 ng
RT: 15.589 min Scan# 1606
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:330 Resp: 5273

Ion	Ratio	Lower	Upper
330	100		
332	96.5	77.4	116.0
141	45.0	35.9	53.9



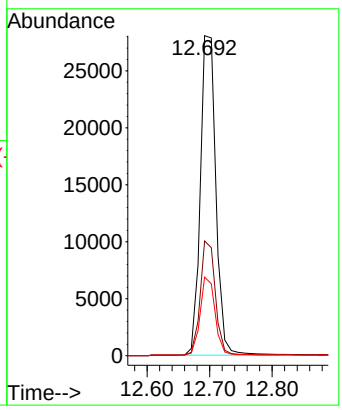


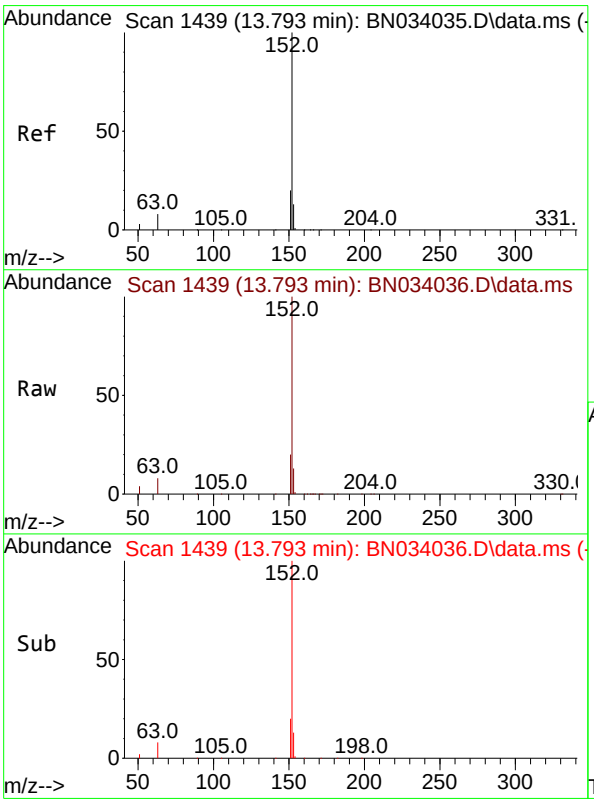
#15
2-Fluorobiphenyl
Concen: 0.847 ng
RT: 12.692 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:172 Resp: 48622

Ion	Ratio	Lower	Upper
172	100		
171	35.8	27.3	40.9
170	24.5	18.1	27.1

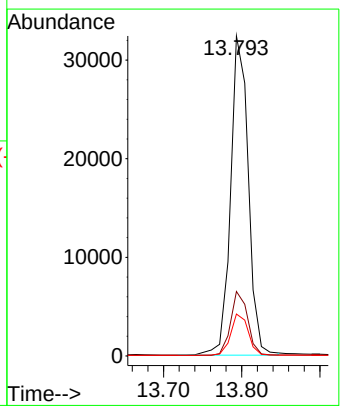


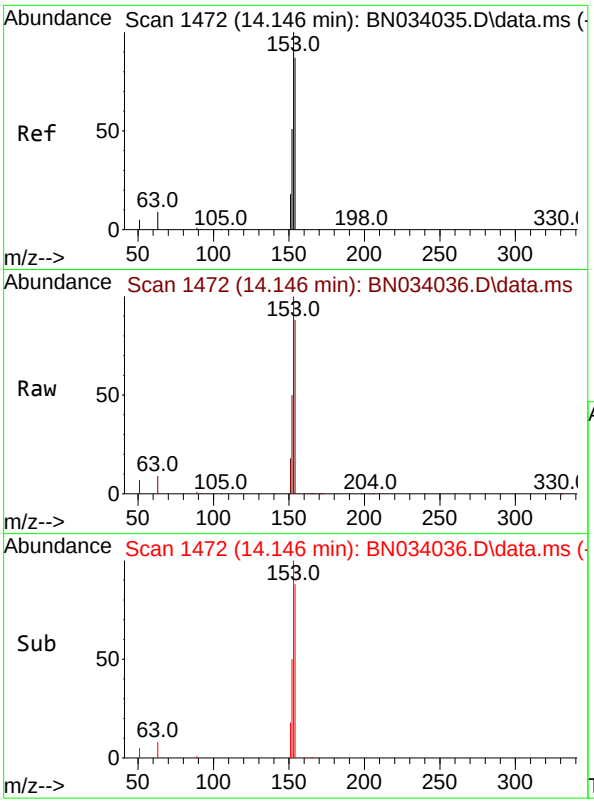


#16
Acenaphthylene
Concen: 0.843 ng
RT: 13.793 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:152 Resp: 50928

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.6	23.4
153	12.9	10.3	15.5



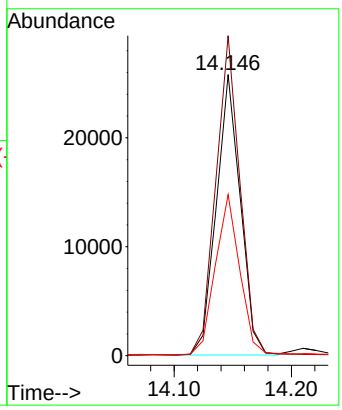


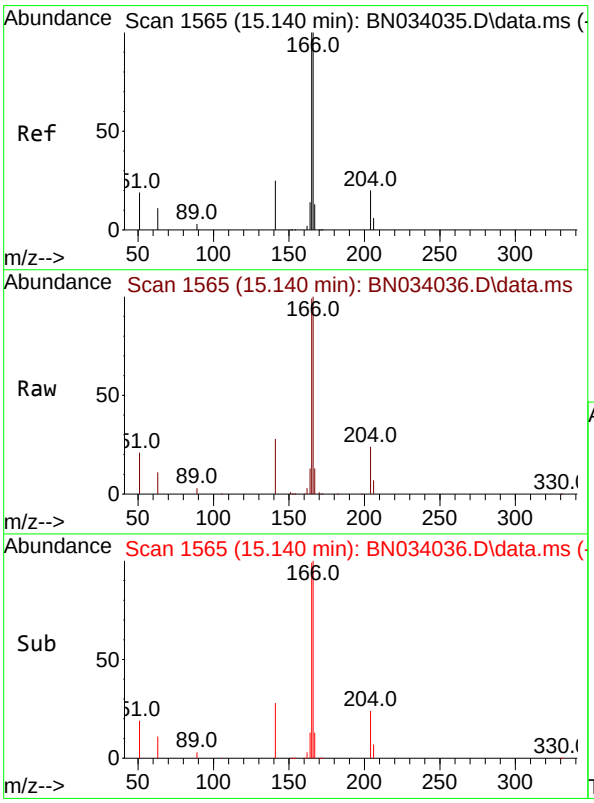
#17
Acenaphthene
Concen: 0.846 ng
RT: 14.146 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:154 Resp: 36642

Ion	Ratio	Lower	Upper
154	100		
153	114.0	91.6	137.4
152	58.0	47.4	71.2

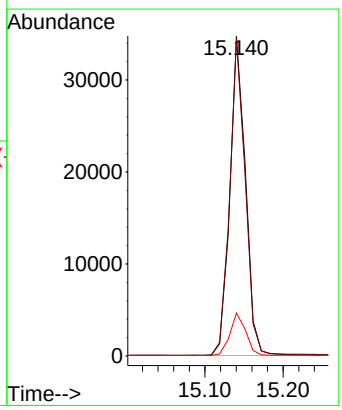


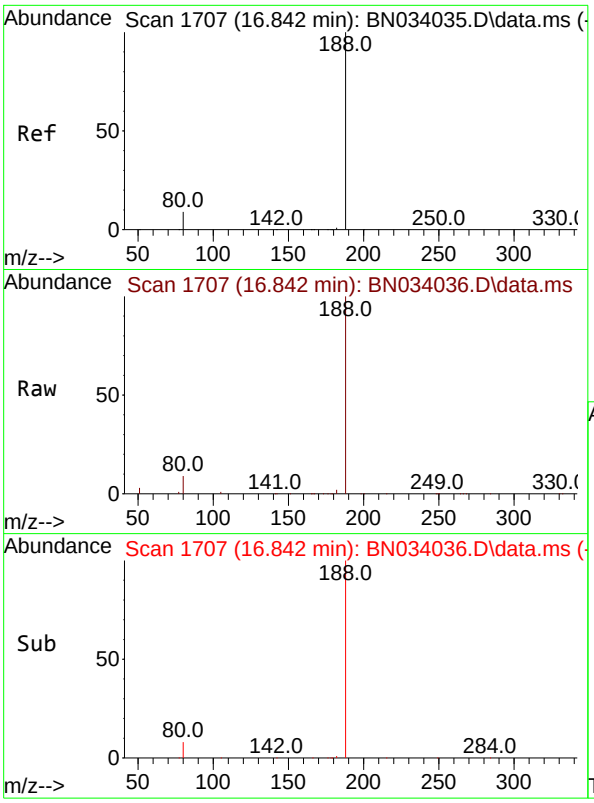


#18
Fluorene
Concen: 0.846 ng
RT: 15.140 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:166 Resp: 48102

Ion	Ratio	Lower	Upper
166	100		
165	98.5	79.1	118.7
167	13.4	10.6	15.8



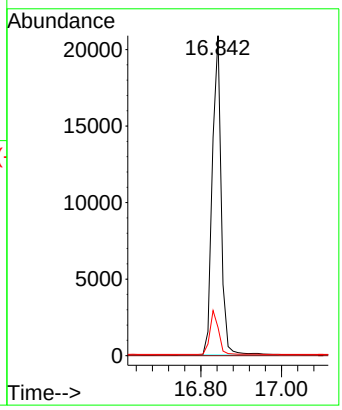


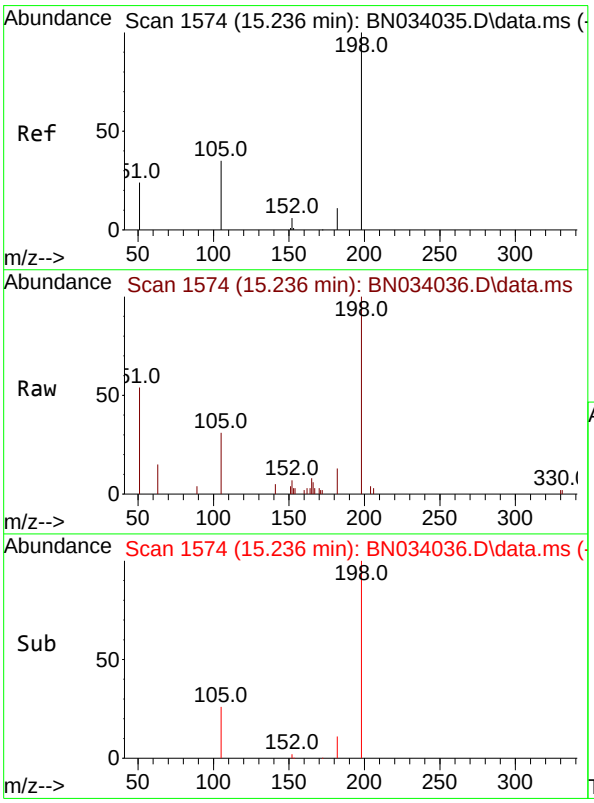
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.842 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:188 Resp: 31835

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.8	7.4	11.0

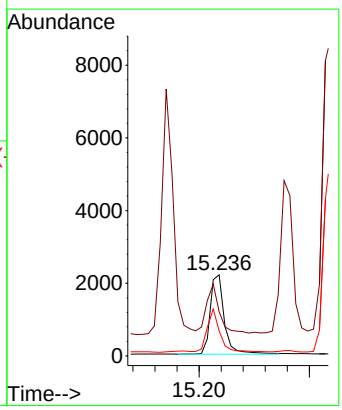


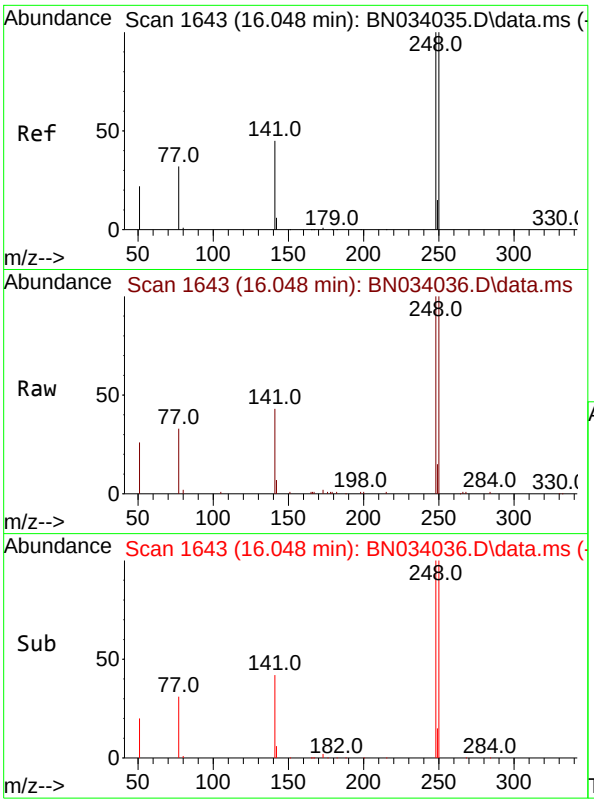


#20
4,6-Dinitro-2-methylphenol
Concen: 0.792 ng
RT: 15.236 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:198 Resp: 3863

Ion	Ratio	Lower	Upper
198	100		
51	54.5	106.4	159.6#
105	30.8	38.5	57.7#



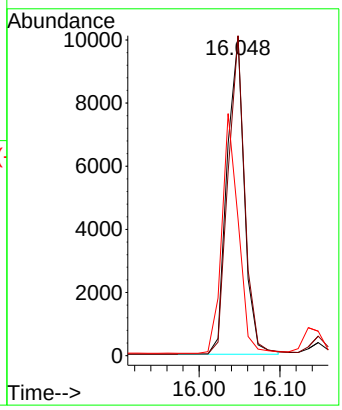


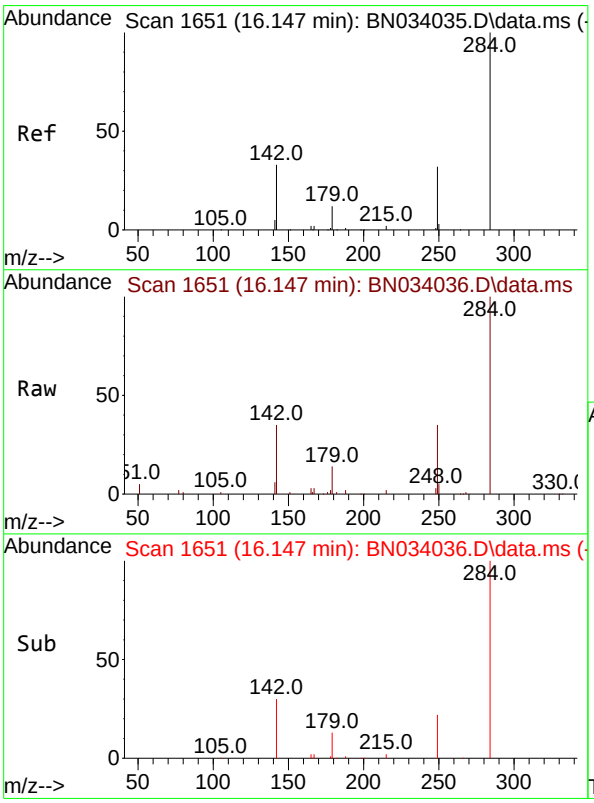
#21
4-Bromophenyl-phenylether
Concen: 0.838 ng
RT: 16.048 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:248 Resp: 14996

Ion	Ratio	Lower	Upper
248	100		
250	100.2	80.5	120.7
141	42.9	37.1	55.7

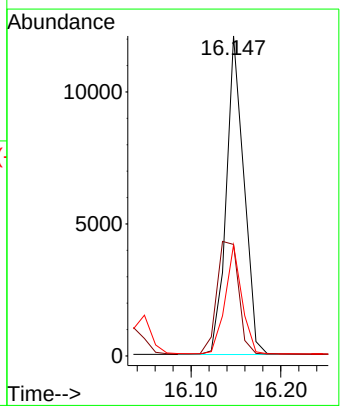


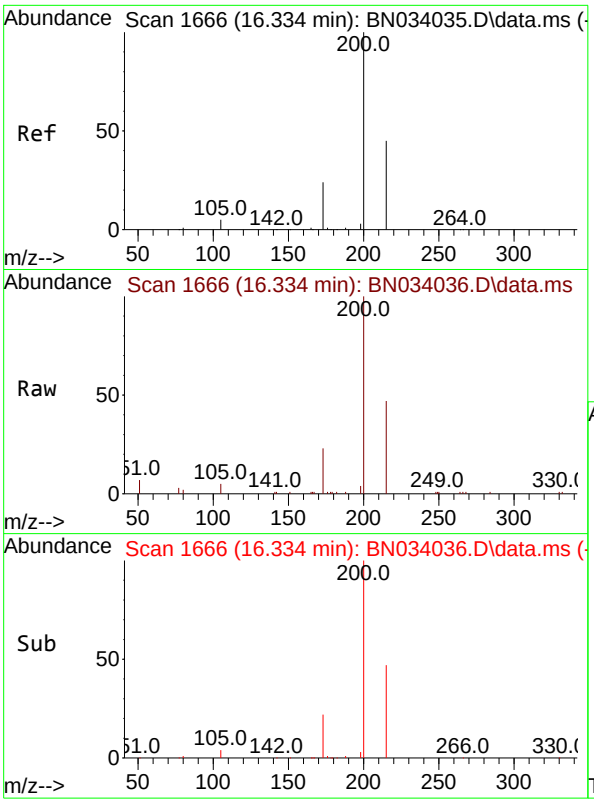


#22
Hexachlorobenzene
Concen: 0.821 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:284 Resp: 16483

Ion	Ratio	Lower	Upper
284	100		
142	43.5	34.5	51.7
249	32.4	25.8	38.6



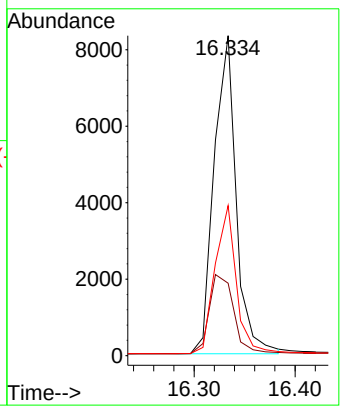


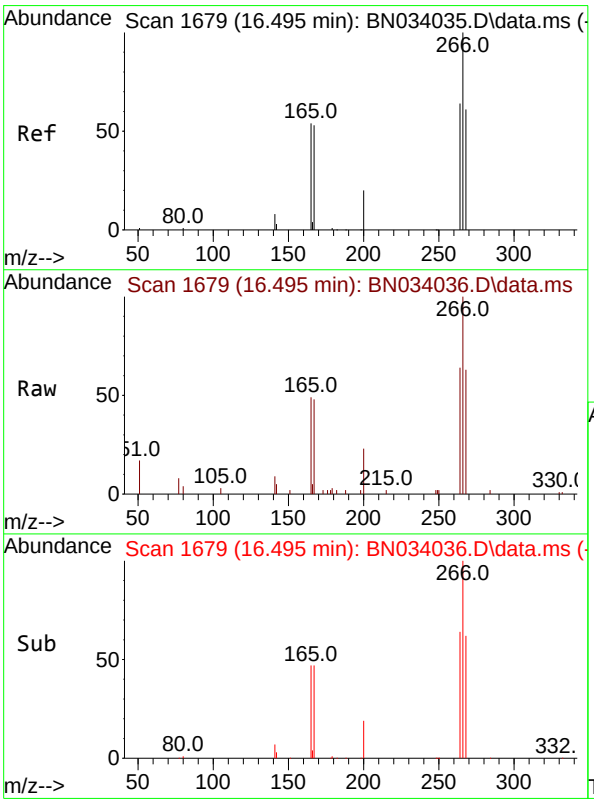
#23
Atrazine
Concen: 0.849 ng
RT: 16.334 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:200 Resp: 12586

Ion	Ratio	Lower	Upper
200	100		
173	22.6	20.1	30.1
215	46.9	37.0	55.6

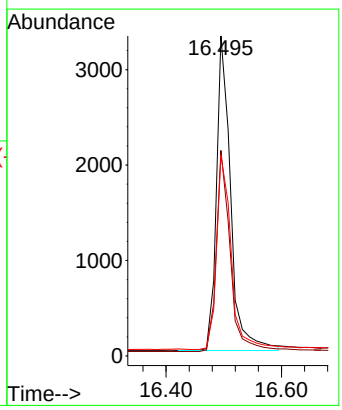


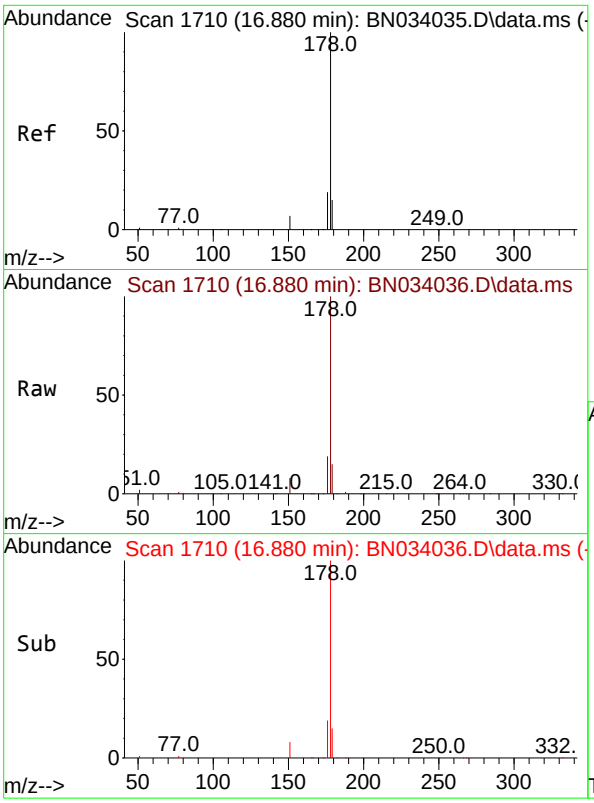


#24
Pentachlorophenol
Concen: 0.846 ng
RT: 16.495 min Scan# 1679
Delta R.T. -0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:266 Resp: 5614

Ion	Ratio	Lower	Upper
266	100		
264	62.4	50.2	75.2
268	63.8	51.0	76.4



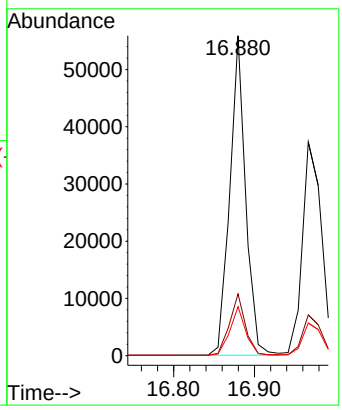


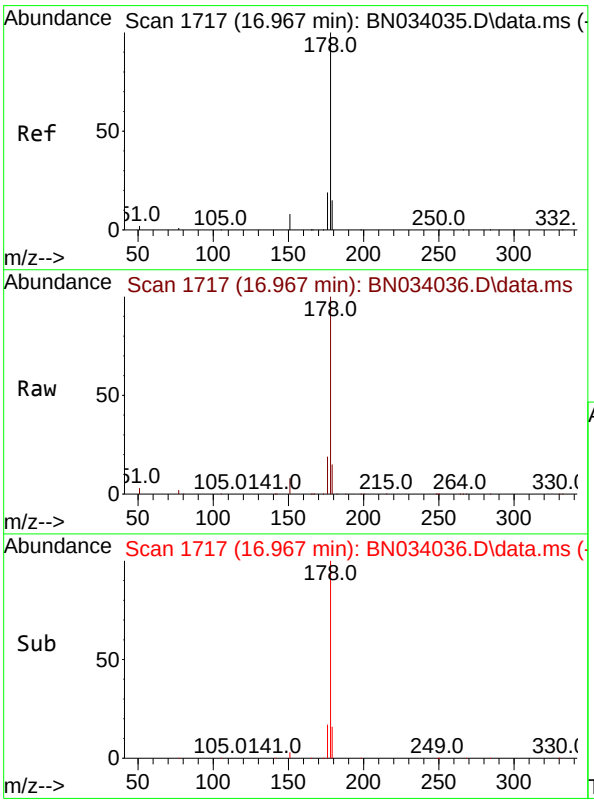
#25
Phenanthrene
Concen: 0.833 ng
RT: 16.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:178 Resp: 76155

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.2	12.1	18.1

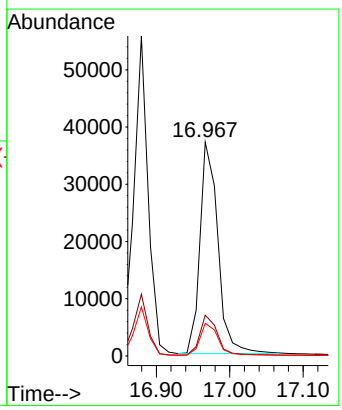


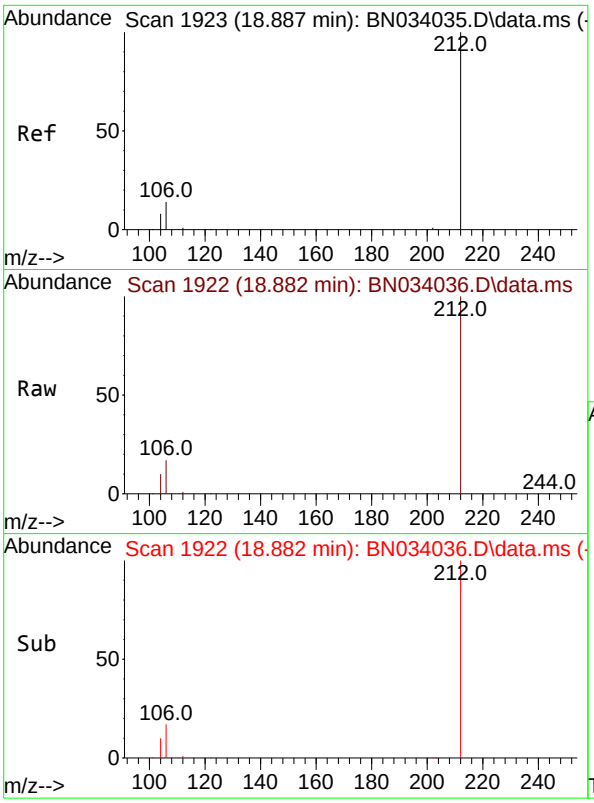


#26
Anthracene
Concen: 0.841 ng
RT: 16.967 min Scan# 1717
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:178 Resp: 62736

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.1	12.2	18.4



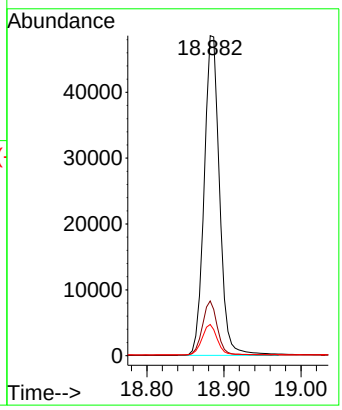


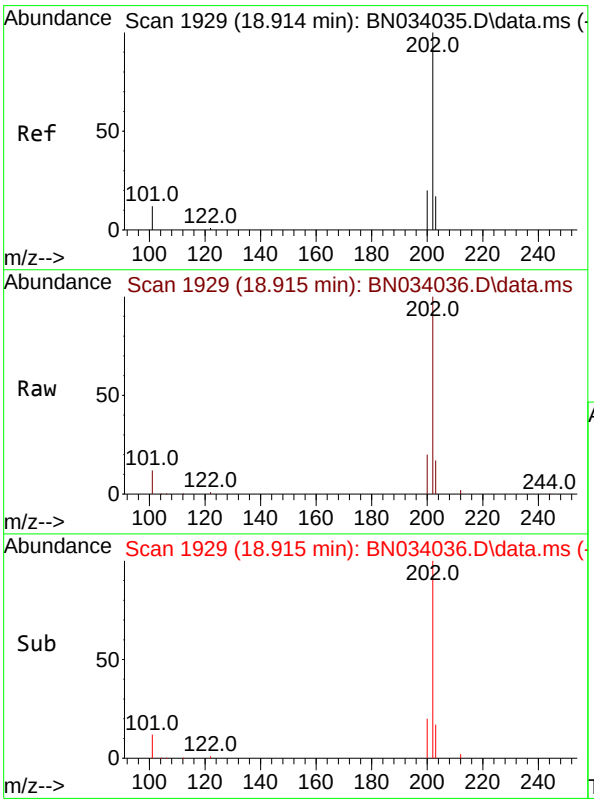
#27
Fluoranthene-d10
Concen: 0.840 ng
RT: 18.882 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:212 Resp: 67435

Ion	Ratio	Lower	Upper
212	100		
106	16.5	13.4	20.2
104	9.3	7.8	11.6

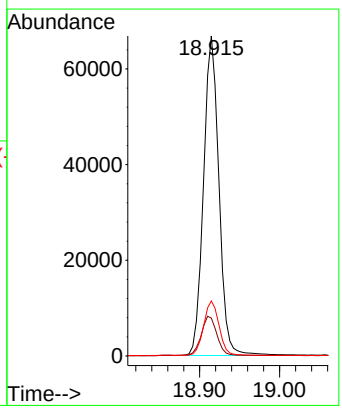


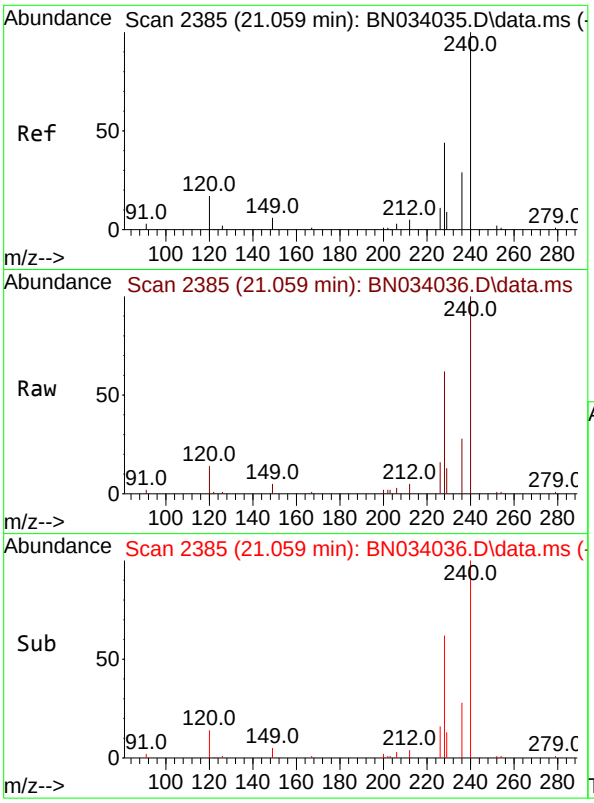


#28
Fluoranthene
Concen: 0.845 ng
RT: 18.915 min Scan# 1929
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:202 Resp: 89443

Ion	Ratio	Lower	Upper
202	100		
101	12.8	10.1	15.1
203	17.0	13.6	20.4



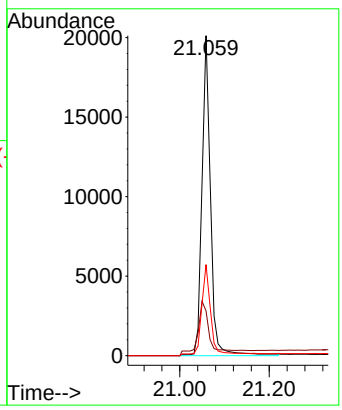


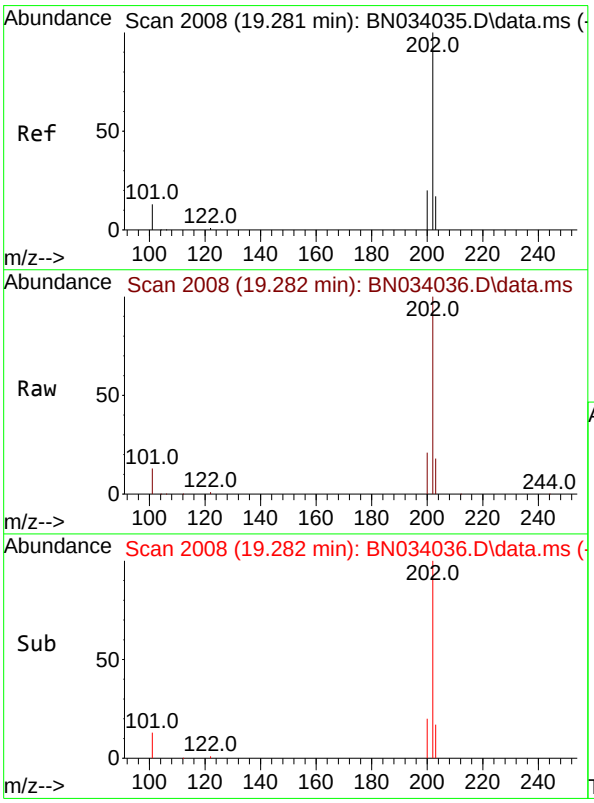
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.059 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:240 Resp: 25814

Ion	Ratio	Lower	Upper
240	100		
120	14.0	13.5	20.3
236	28.4	23.4	35.0

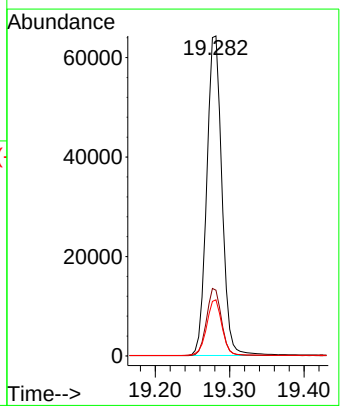


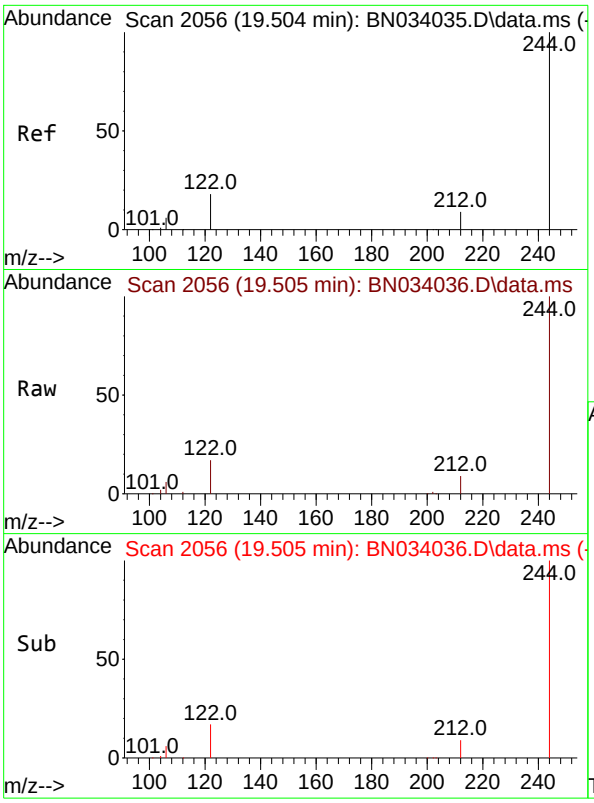


#30
Pyrene
Concen: 0.836 ng
RT: 19.282 min Scan# 2008
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:202 Resp: 91043

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.6	25.0
203	17.7	14.3	21.5



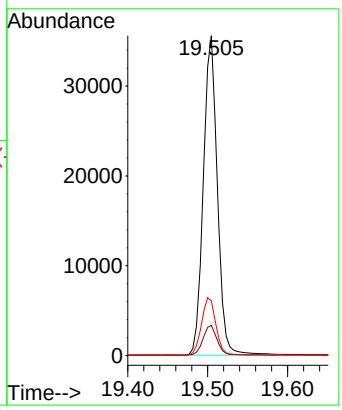


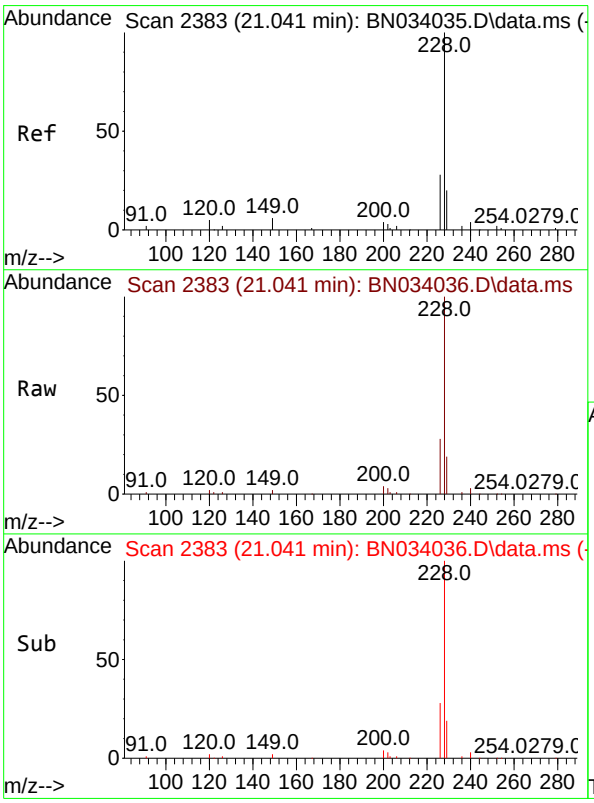
#31
Terphenyl-d14
Concen: 0.843 ng
RT: 19.505 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:244 Resp: 43487

Ion	Ratio	Lower	Upper
244	100		
212	9.5	7.8	11.6
122	17.2	14.8	22.2

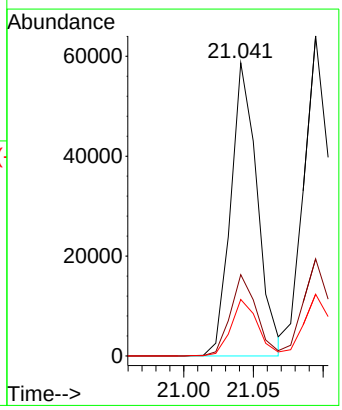


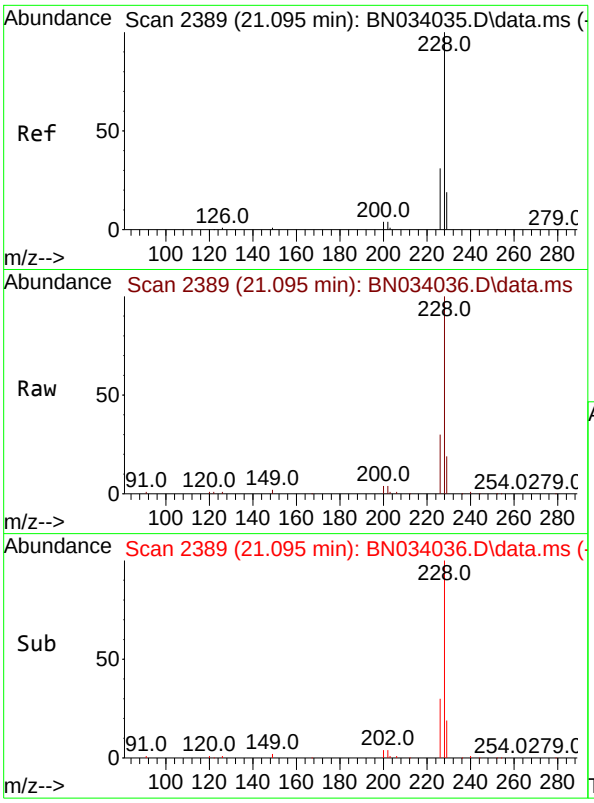


#32
Benzo(a)anthracene
Concen: 0.849 ng
RT: 21.041 min Scan# 2383
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:228 Resp: 69334

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.3	33.5
229	19.3	15.7	23.5



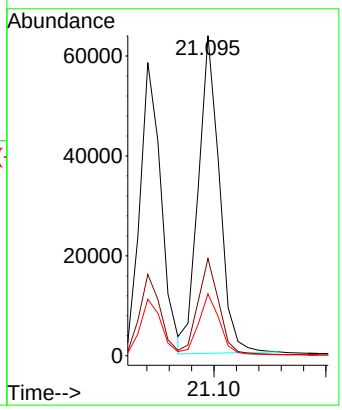


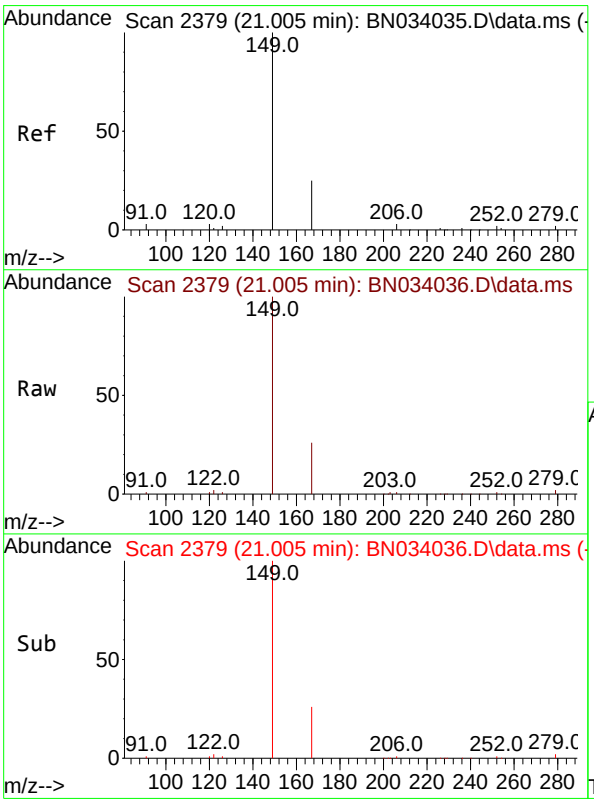
#33
Chrysene
Concen: 0.853 ng
RT: 21.095 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:228 Resp: 83124

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	19.3	15.5	23.3

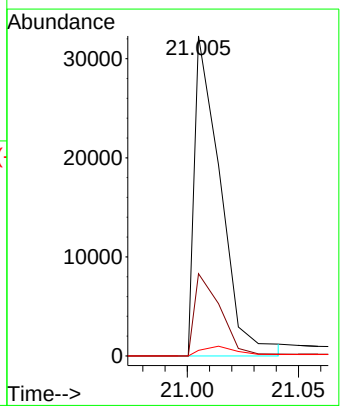


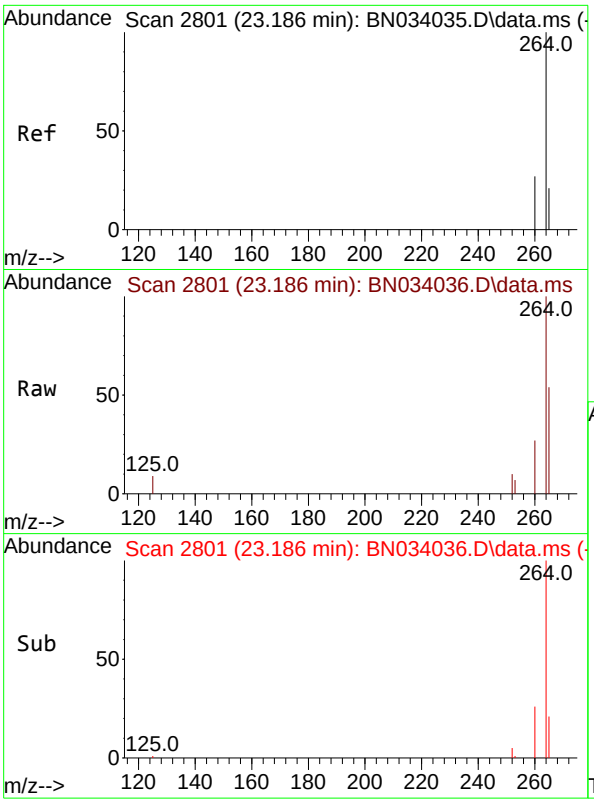


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.755 ng
RT: 21.005 min Scan# 2379
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:149 Resp: 25688

Ion	Ratio	Lower	Upper
149	100		
167	25.9	19.9	29.9
279	4.1	4.6	6.8#



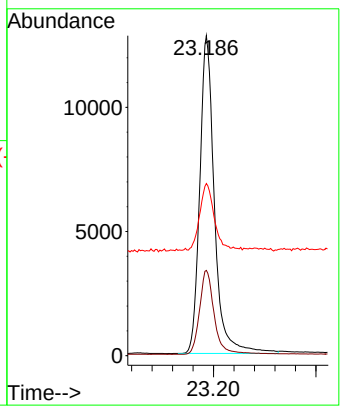


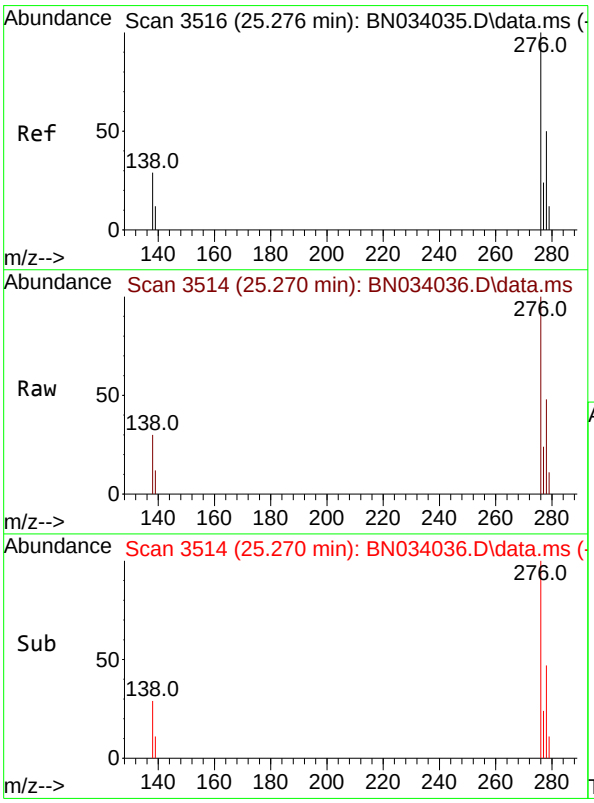
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.186 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:264 Resp: 25510

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.7	32.5
265	53.8	52.1	78.1

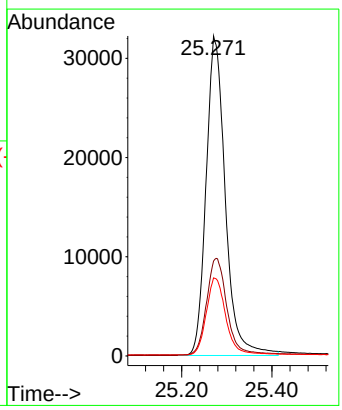


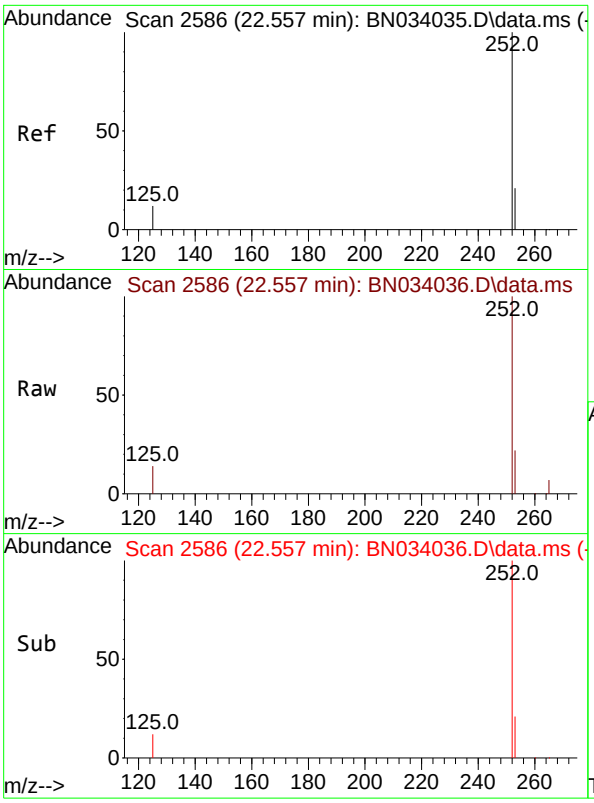


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.870 ng
RT: 25.270 min Scan# 3514
Delta R.T. -0.006 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:276 Resp: 95053

Ion	Ratio	Lower	Upper
276	100		
138	32.0	25.9	38.9
277	24.7	19.7	29.5



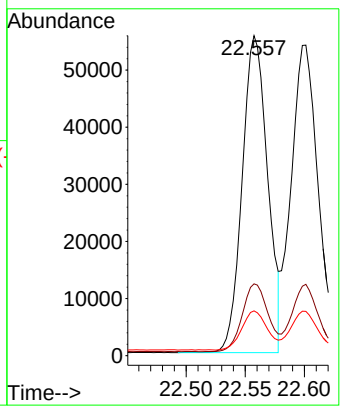


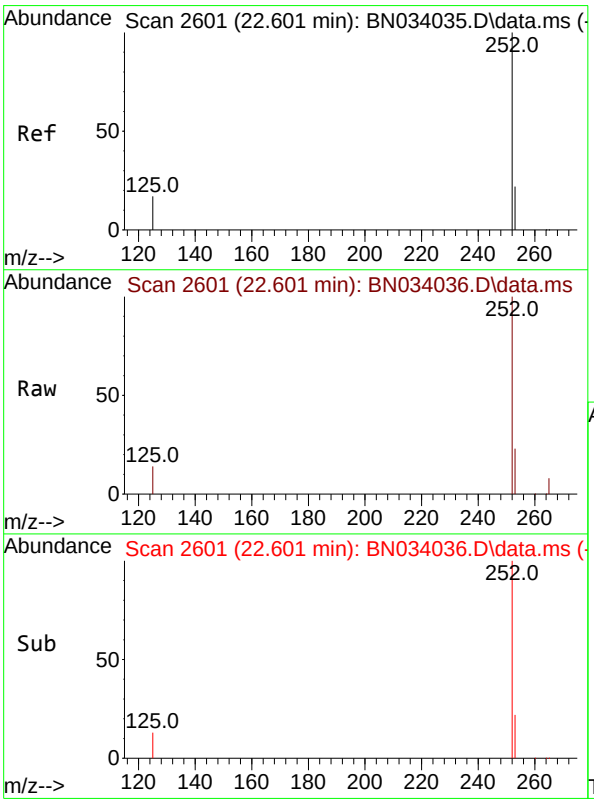
#37
Benzo(b)fluoranthene
Concen: 0.830 ng
RT: 22.557 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 82914

Ion	Ratio	Lower	Upper
252	100		
253	22.5	19.6	29.4
125	14.0	13.8	20.8

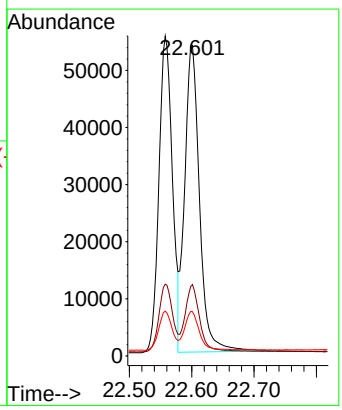


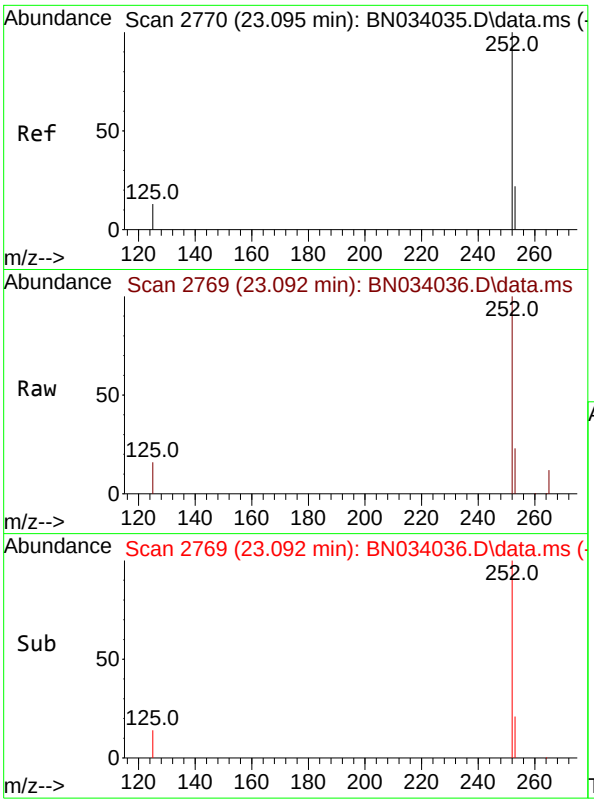


#38
Benzo(k)fluoranthene
Concen: 0.849 ng
RT: 22.601 min Scan# 2601
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:252 Resp: 89093

Ion	Ratio	Lower	Upper
252	100		
253	23.0	20.1	30.1
125	14.3	16.8	25.2#



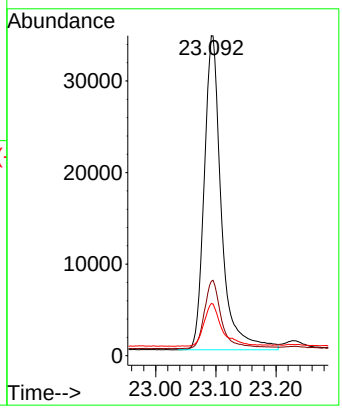


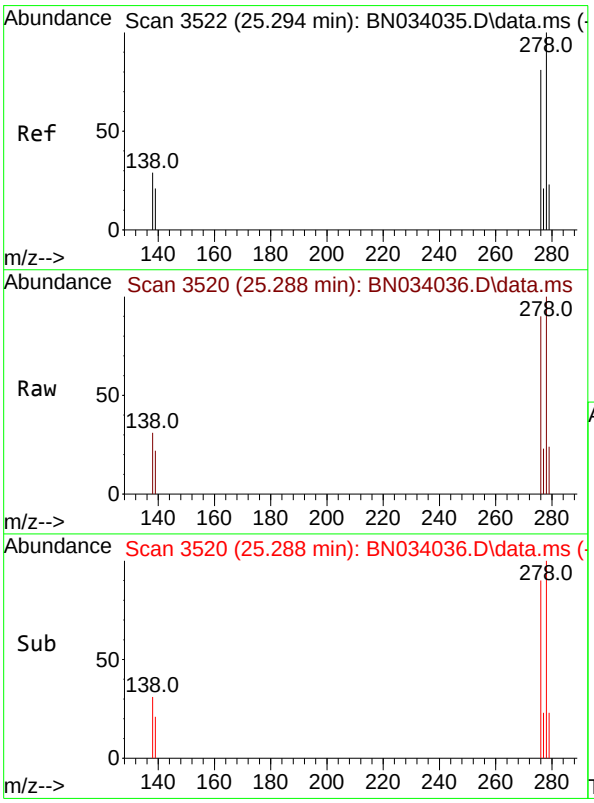
#39
Benzo(a)pyrene
Concen: 0.837 ng
RT: 23.092 min Scan# 2
Delta R.T. -0.003 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:252 Resp: 68137

Ion	Ratio	Lower	Upper
252	100		
253	23.3	21.8	32.8
125	16.3	17.5	26.3#

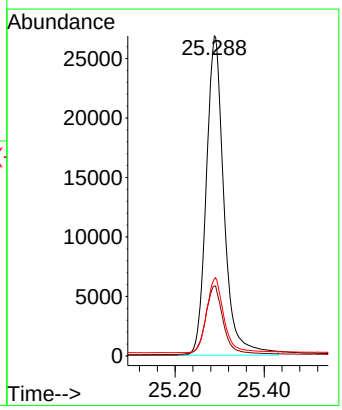


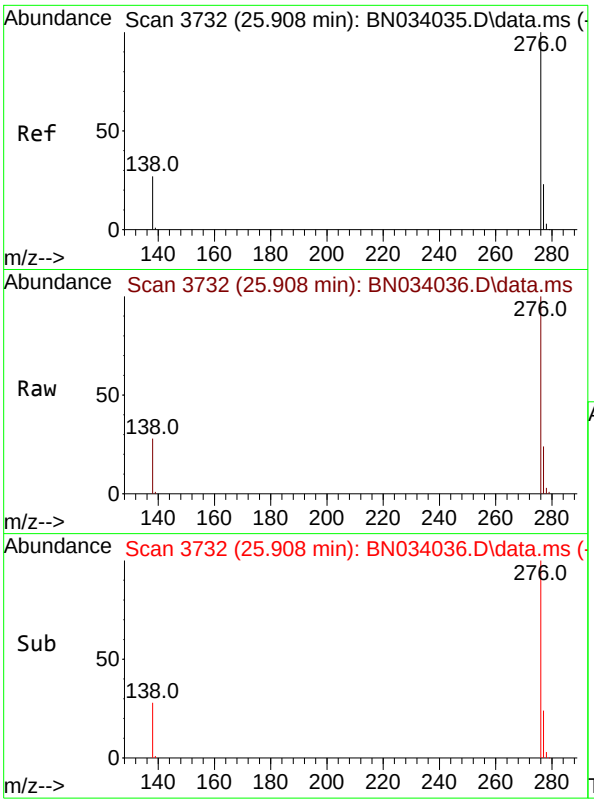


#40
Dibenzo(a,h)anthracene
Concen: 0.876 ng
RT: 25.288 min Scan# 3520
Delta R.T. -0.006 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Tgt Ion:278 Resp: 74377

Ion	Ratio	Lower	Upper
278	100		
139	21.8	17.8	26.8
279	24.1	21.0	31.6



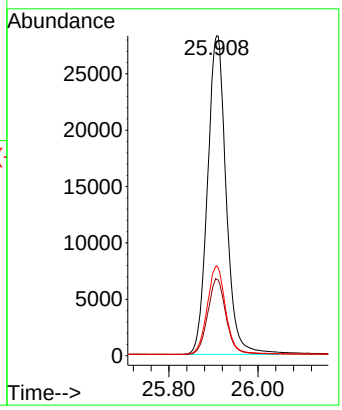


#41
Benzo(g,h,i)perylene
Concen: 0.860 ng
RT: 25.908 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN034036.D
Acq: 18 Sep 2024 13:41

Instrument :
BNA_N
ClientSampleId :
SSTDICC0.8

Tgt Ion:276 Resp: 82049

Ion	Ratio	Lower	Upper
276	100		
277	23.8	19.3	28.9
138	28.0	22.6	34.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034037.D
Acq On : 18 Sep 2024 14:17
Operator : JU/RC
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Sep 18 16:15:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.437	152	7111	0.400	ng		0.00
7) Naphthalene-d8	10.197	136	20316	0.400	ng		0.00
13) Acenaphthene-d10	14.082	164	11808	0.400	ng		0.00
19) Phenanthrene-d10	16.842	188	26045	0.400	ng		0.00
29) Chrysene-d12	21.059	240	21614	0.400	ng		0.00
35) Perylene-d12	23.186	264	19600	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.075	112	32667	1.619	ng		0.00
5) Phenol-d6	6.635	99	39860	1.698	ng		0.00
8) Nitrobenzene-d5	8.574	82	27285	1.756	ng		0.00
11) 2-Methylnaphthalene-d10	11.794	152	50974	1.699	ng		0.00
14) 2,4,6-Tribromophenol	15.589	330	9079	1.697	ng		0.00
15) 2-Fluorobiphenyl	12.692	172	79979	1.665	ng		-0.01
27) Fluoranthene-d10	18.882	212	109826	1.671	ng		0.00
31) Terphenyl-d14	19.505	244	70948	1.644	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.074	88	13871	1.560	ng		92
3) n-Nitrosodimethylamine	3.371	42	17236	1.703	ng	#	96
6) bis(2-Chloroethyl)ether	6.881	93	34796	1.675	ng		99
9) Naphthalene	10.240	128	93335	1.674	ng		99
10) Hexachlorobutadiene	10.539	225	17309	1.648	ng	#	100
12) 2-Methylnaphthalene	11.869	142	61705	1.701	ng		98
16) Acenaphthylene	13.793	152	87178	1.725	ng		100
17) Acenaphthene	14.146	154	60082	1.657	ng		99
18) Fluorene	15.140	166	79821	1.678	ng		99
20) 4,6-Dinitro-2-methylph...	15.226	198	6762	1.537	ng	#	58
21) 4-Bromophenyl-phenylether	16.048	248	24600	1.680	ng		96
22) Hexachlorobenzene	16.147	284	27375	1.668	ng		99
23) Atrazine	16.334	200	20513	1.691	ng		98
24) Pentachlorophenol	16.495	266	9892	1.822	ng		99
25) Phenanthrene	16.880	178	124101	1.659	ng		100
26) Anthracene	16.967	178	105007	1.720	ng		99
28) Fluoranthene	18.915	202	147270	1.700	ng		100
30) Pyrene	19.277	202	148059	1.623	ng		100
32) Benzo(a)anthracene	21.041	228	112646	1.647	ng		99
33) Chrysene	21.095	228	134824	1.653	ng		99
34) Bis(2-ethylhexyl)phtha...	21.005	149	39500	1.387	ng	#	97
36) Indeno(1,2,3-cd)pyrene	25.273	276	138960	1.655	ng		99
37) Benzo(b)fluoranthene	22.560	252	132911	1.731	ng	#	94
38) Benzo(k)fluoranthene	22.601	252	137998	1.712	ng	#	90
39) Benzo(a)pyrene	23.095	252	107316	1.715	ng	#	89
40) Dibenzo(a,h)anthracene	25.288	278	108998	1.671	ng		97
41) Benzo(g,h,i)perylene	25.908	276	120262	1.641	ng		99

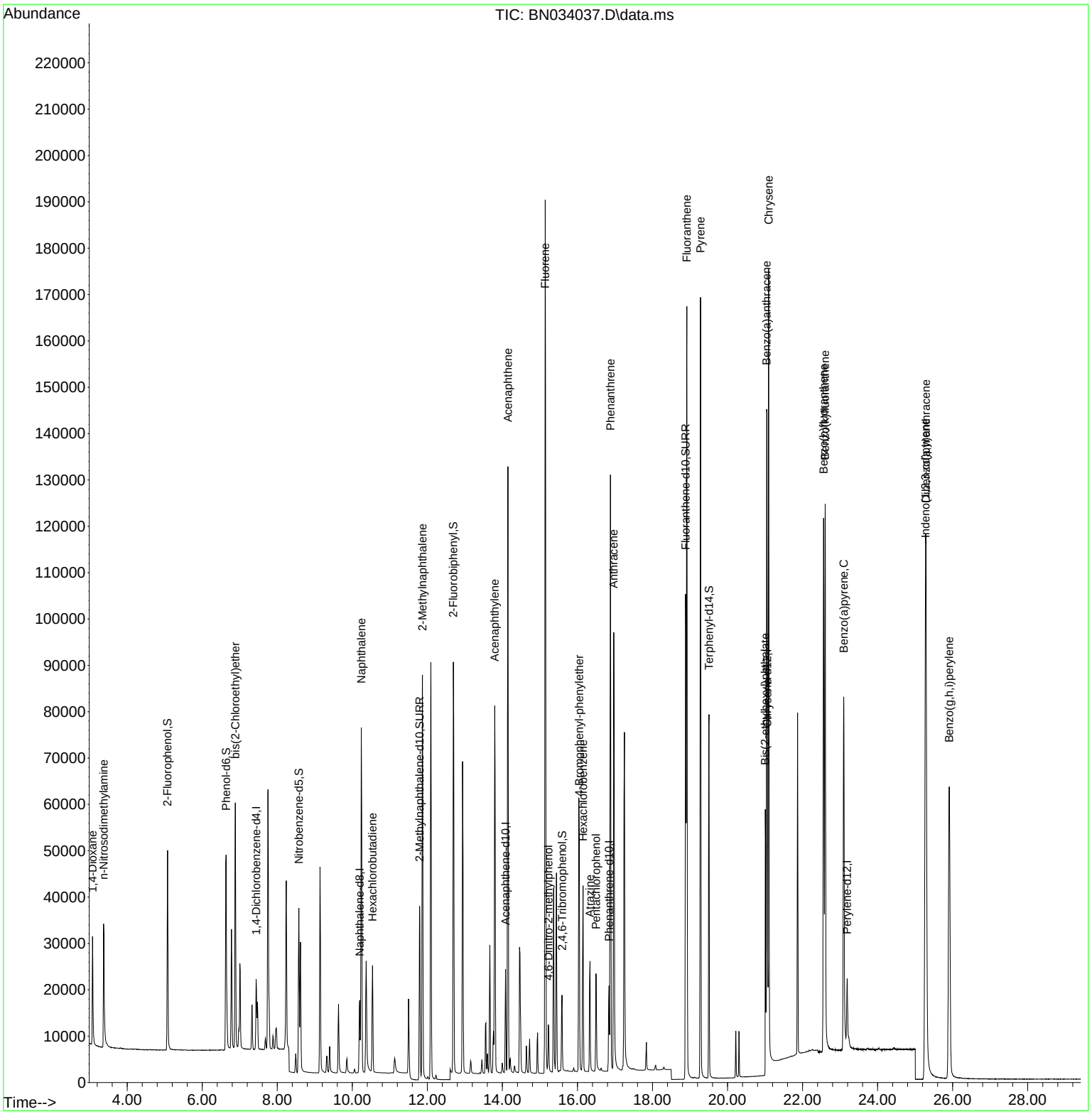
(#) = qualifier out of range (m) = manual integration (+) = signals summed

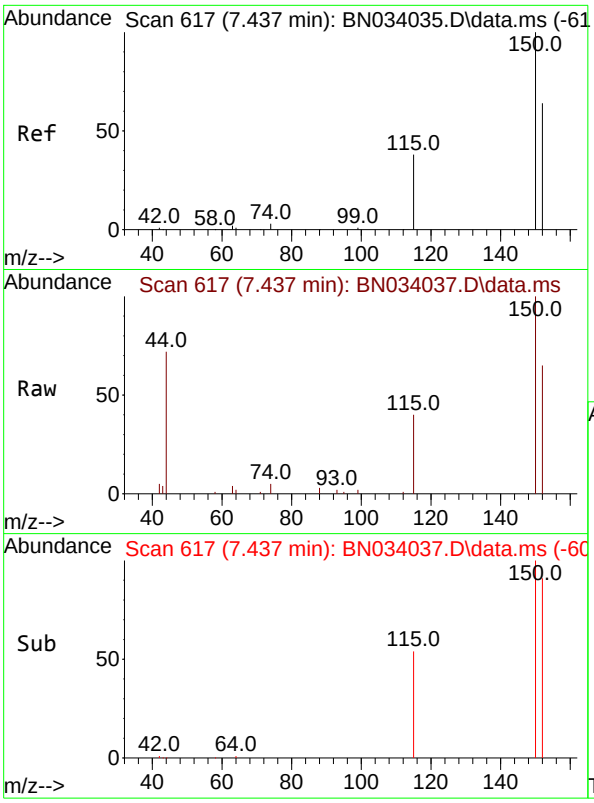
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034037.D
Acq On : 18 Sep 2024 14:17
Operator : JU/RC
Sample : SSTDICC1.6
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Quant Time: Sep 18 16:15:21 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



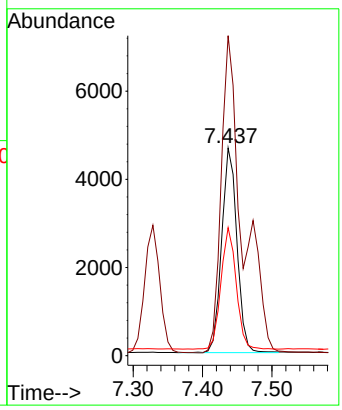


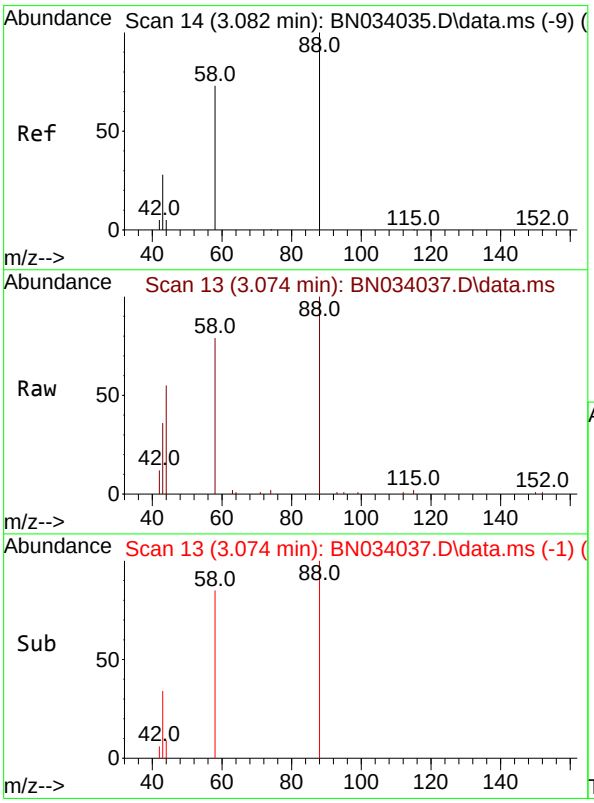
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.437 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 7111

Ion	Ratio	Lower	Upper
152	100		
150	154.1	124.6	187.0
115	61.7	50.0	75.0

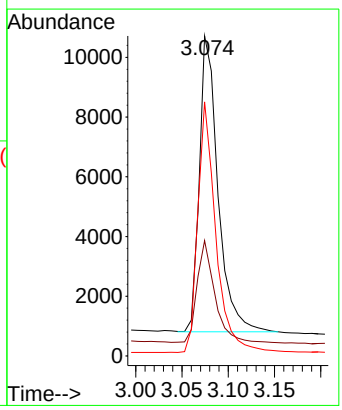


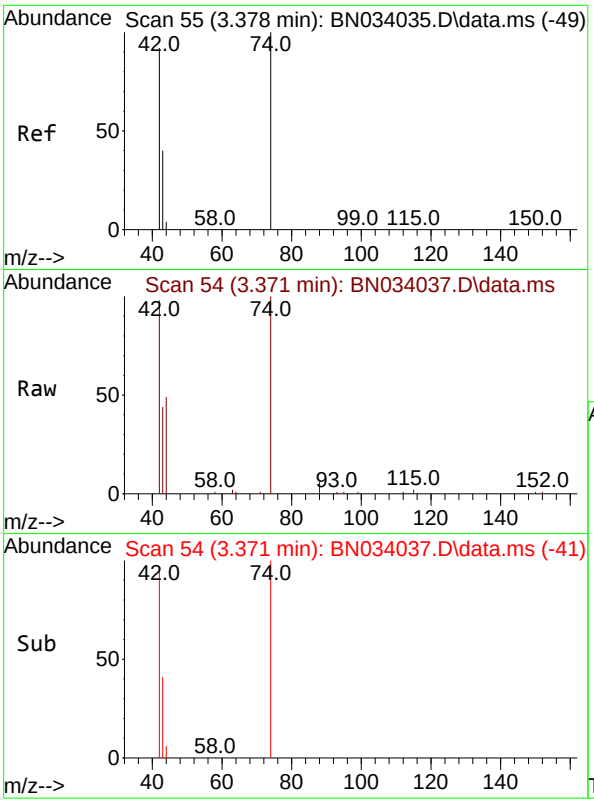


#2
1,4-Dioxane
Concen: 1.560 ng
RT: 3.074 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion: 88 Resp: 13871

Ion	Ratio	Lower	Upper
88	100		
43	33.0	25.8	38.8
58	82.1	58.8	88.2



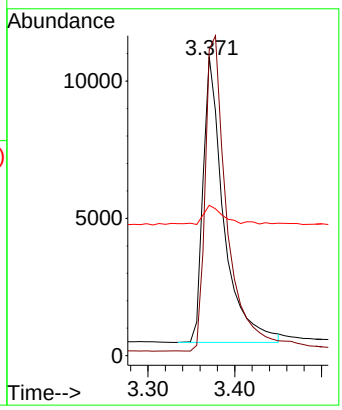


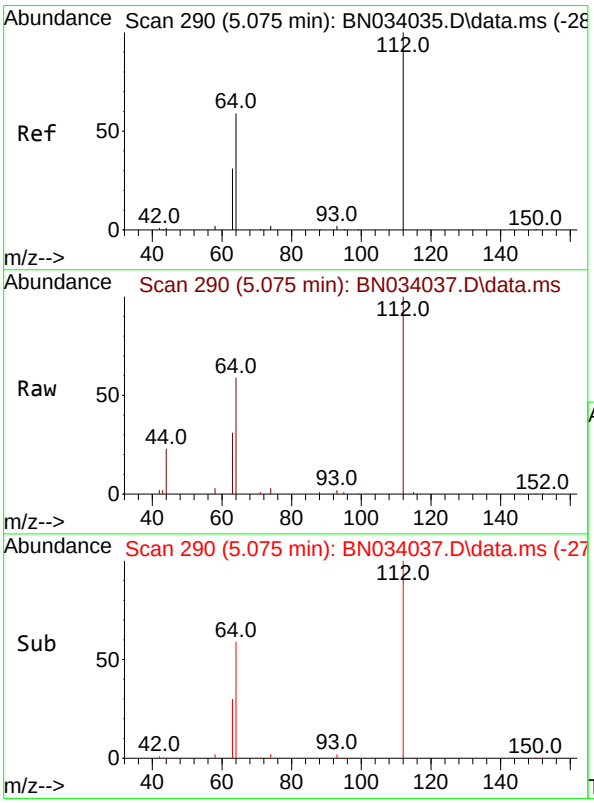
#3
n-Nitrosodimethylamine
Concen: 1.703 ng
RT: 3.371 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 42 Resp: 17236

Ion	Ratio	Lower	Upper
42	100		
74	116.4	94.6	142.0
44	6.3	12.4	18.6#

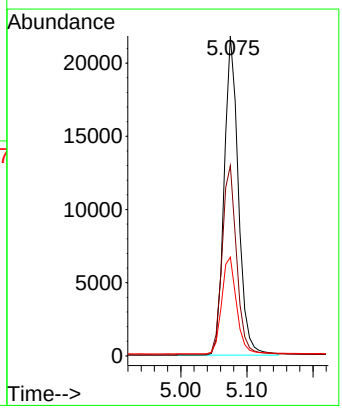


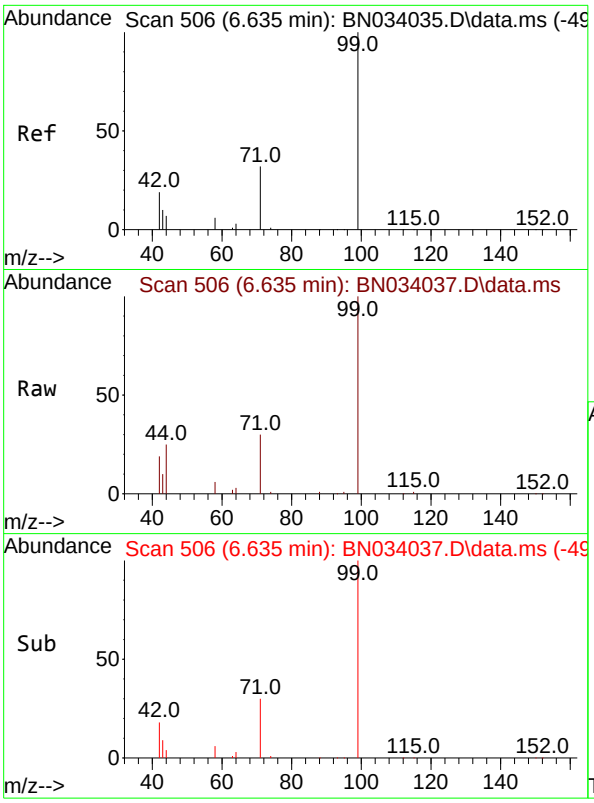


#4
2-Fluorophenol
Concen: 1.619 ng
RT: 5.075 min Scan# 290
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:112 Resp: 32667

Ion	Ratio	Lower	Upper
112	100		
64	60.7	48.6	72.8
63	31.6	25.6	38.4



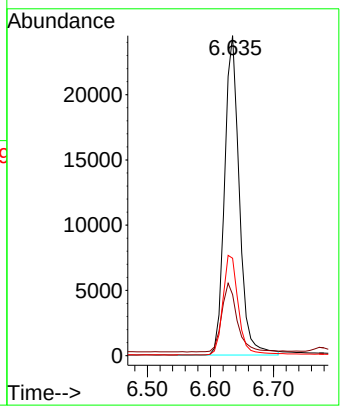


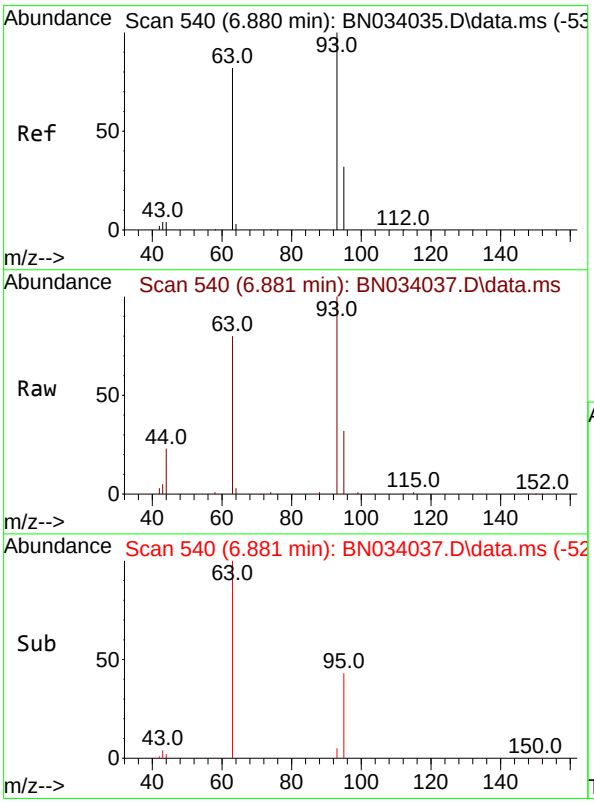
#5
Phenol-d6
Concen: 1.698 ng
RT: 6.635 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion: 99 Resp: 39860

Ion	Ratio	Lower	Upper
99	100		
42	22.6	17.8	26.8
71	32.4	26.2	39.2

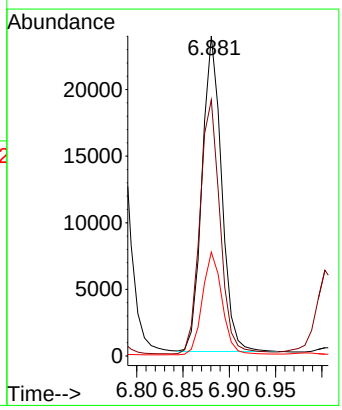


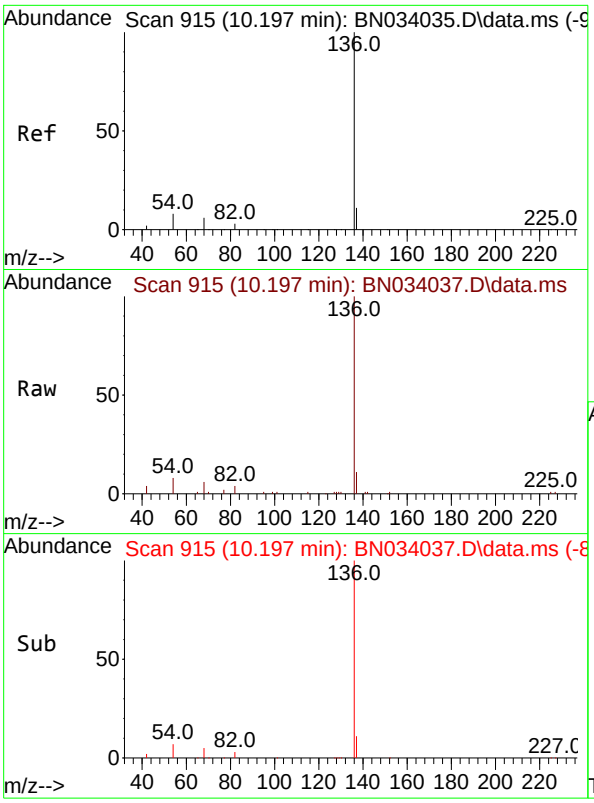


#6
bis(2-Chloroethyl)ether
Concen: 1.675 ng
RT: 6.881 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion: 93 Resp: 34796

Ion	Ratio	Lower	Upper
93	100		
63	83.4	67.3	100.9
95	32.9	26.8	40.2



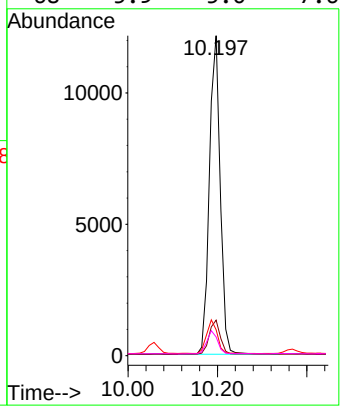


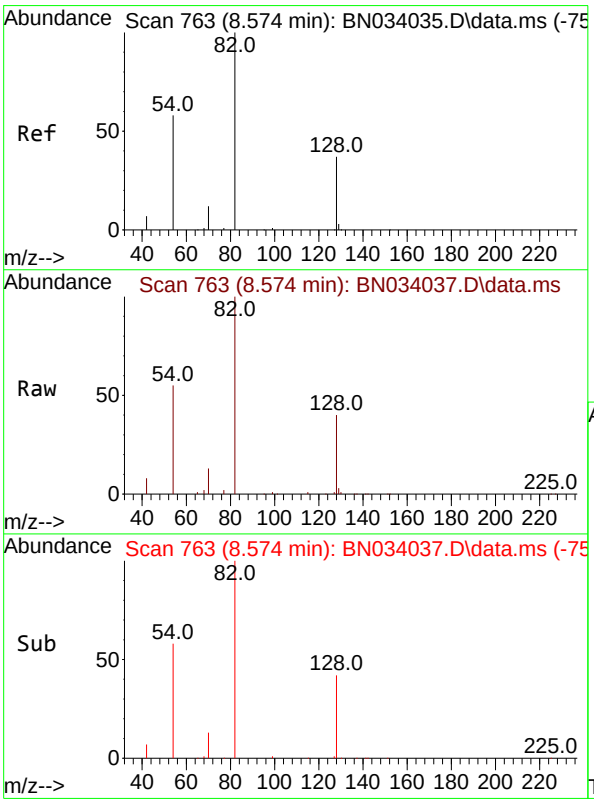
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.197 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:136 Resp: 20316

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	8.1	6.8	10.2
68	5.9	5.0	7.6

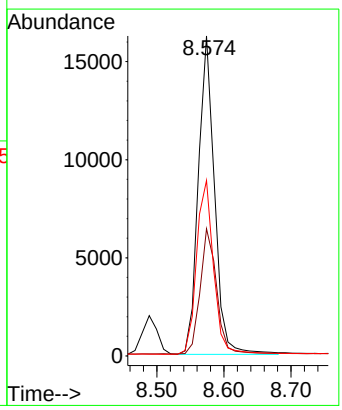


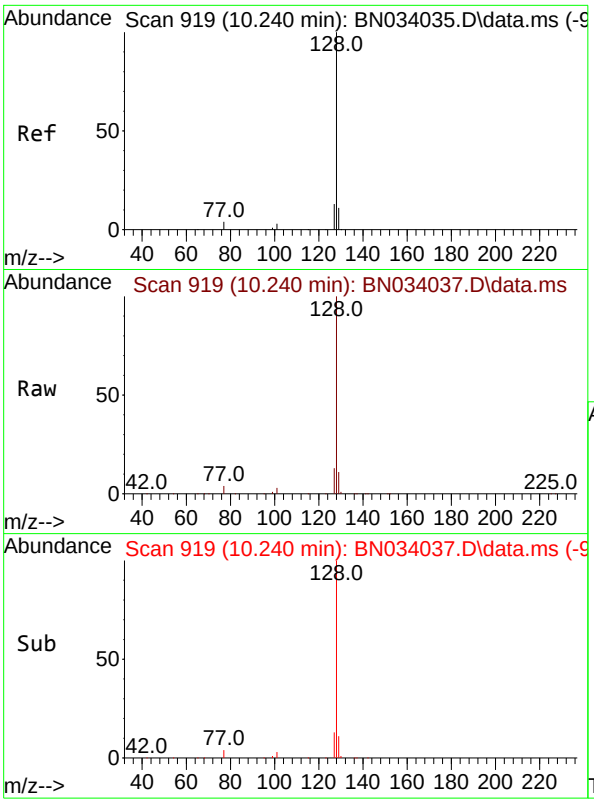


#8
Nitrobenzene-d5
Concen: 1.756 ng
RT: 8.574 min Scan# 763
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion: 82 Resp: 27285

Ion	Ratio	Lower	Upper
82	100		
128	39.8	31.4	47.2
54	54.8	47.4	71.0



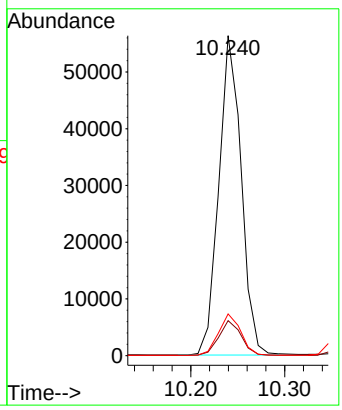


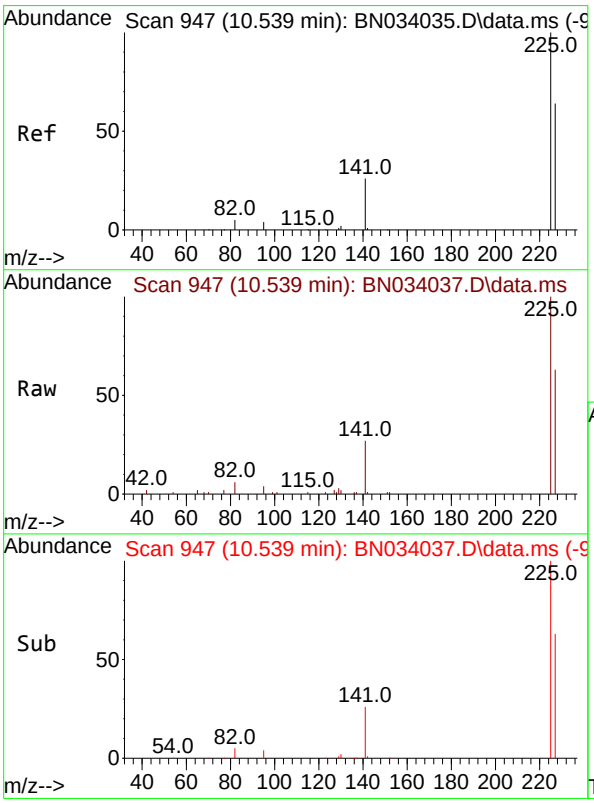
#9
Naphthalene
Concen: 1.674 ng
RT: 10.240 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:128 Resp: 93335

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.2	13.8
127	13.0	10.7	16.1

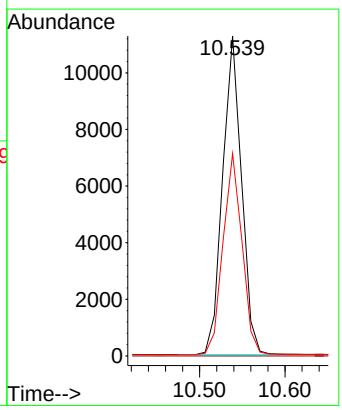


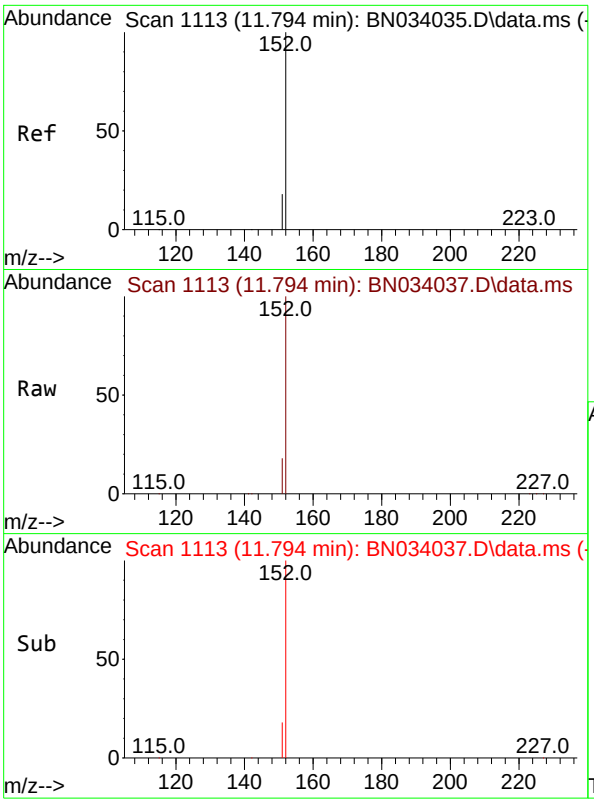


#10
Hexachlorobutadiene
Concen: 1.648 ng
RT: 10.539 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:225 Resp: 17309

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.4	50.5	75.7



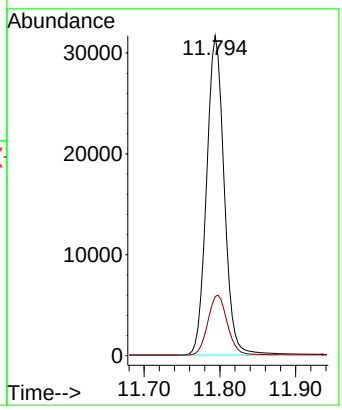


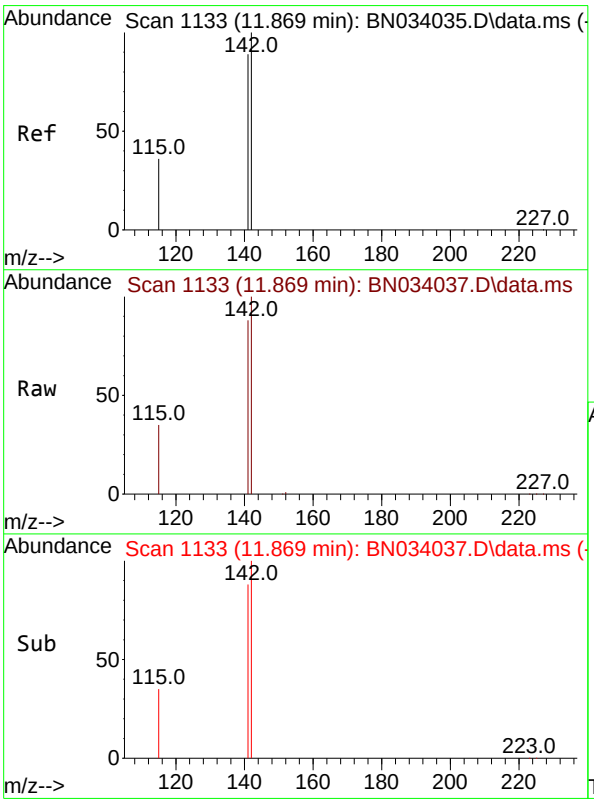
#11
2-Methylnaphthalene-d10
Concen: 1.699 ng
RT: 11.794 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:152 Resp: 50974

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.8	25.2

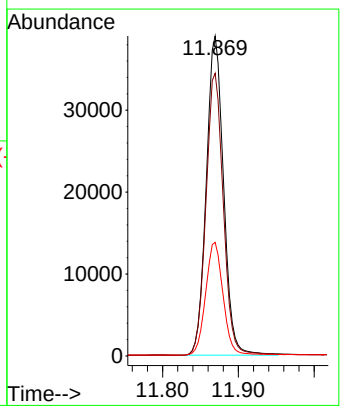


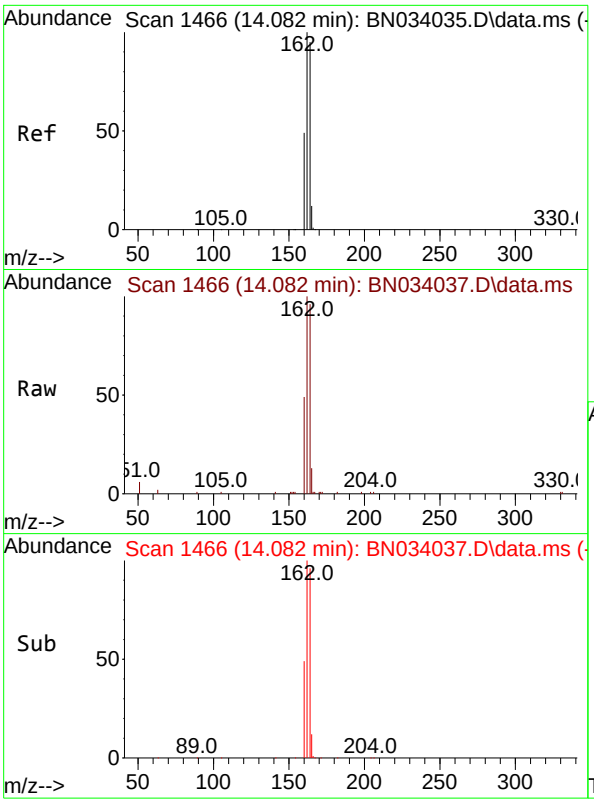


#12
2-Methylnaphthalene
Concen: 1.701 ng
RT: 11.869 min Scan# 1133
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:142 Resp: 61705

Ion	Ratio	Lower	Upper
142	100		
141	88.3	71.6	107.4
115	35.5	30.0	45.0



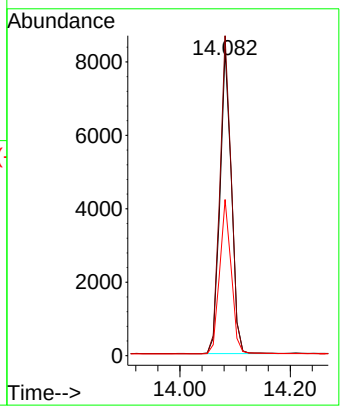


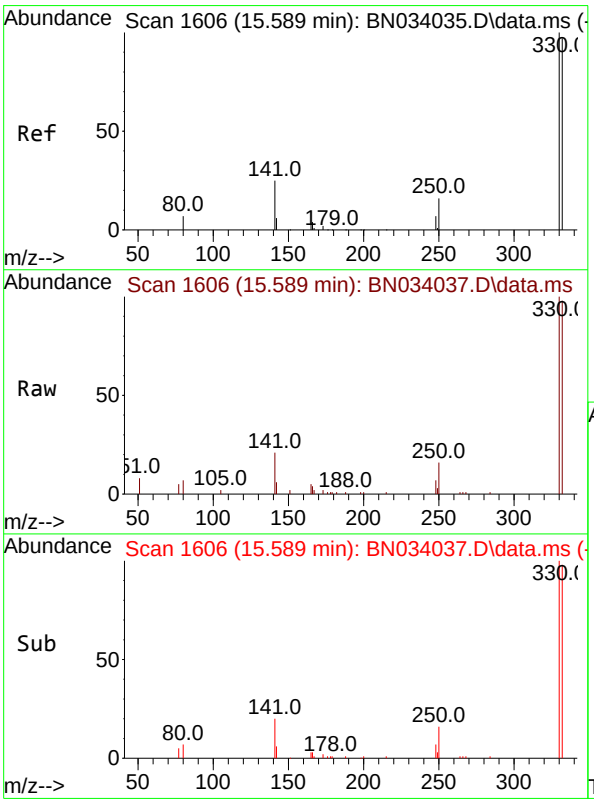
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:164 Resp: 11808

Ion	Ratio	Lower	Upper
164	100		
162	104.4	84.2	126.2
160	51.0	41.7	62.5

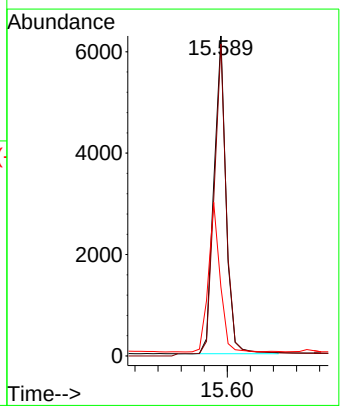


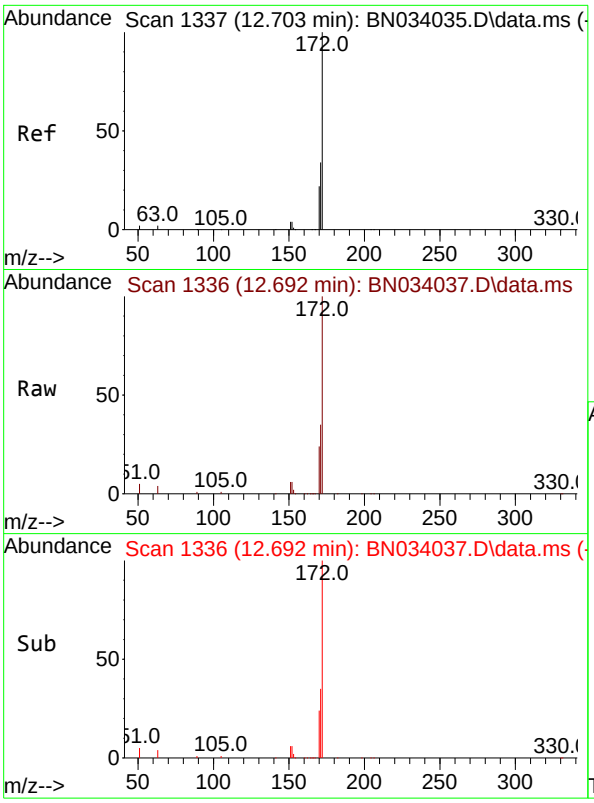


#14
2,4,6-Tribromophenol
Concen: 1.697 ng
RT: 15.589 min Scan# 1606
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:330 Resp: 9079

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.4	116.0
141	45.8	35.9	53.9



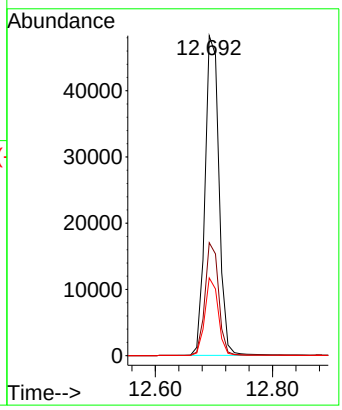


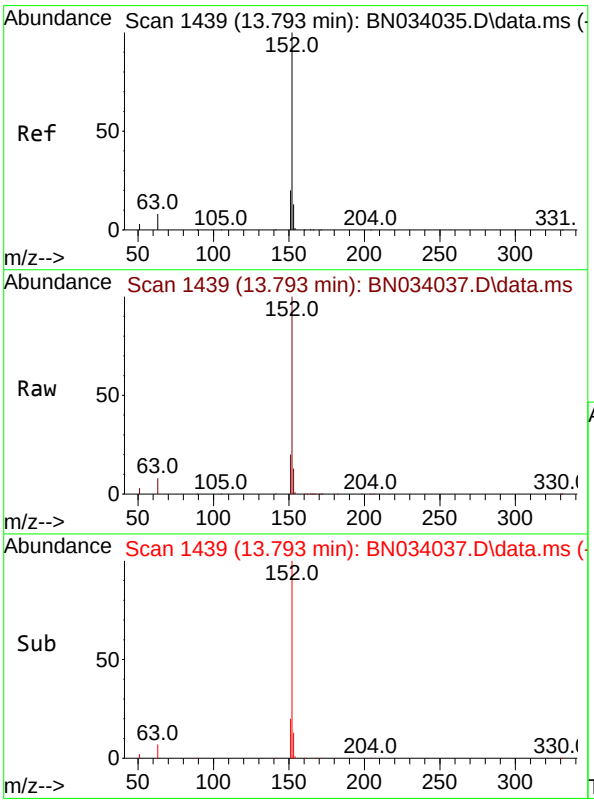
#15
2-Fluorobiphenyl
Concen: 1.665 ng
RT: 12.692 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:172 Resp: 79979

Ion	Ratio	Lower	Upper
172	100		
171	35.3	27.3	40.9
170	24.3	18.1	27.1

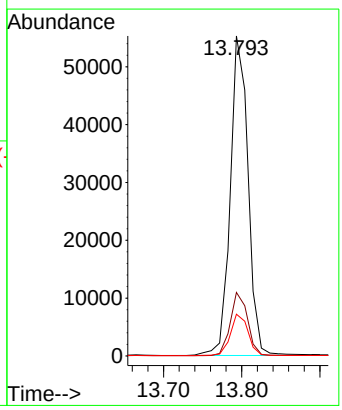


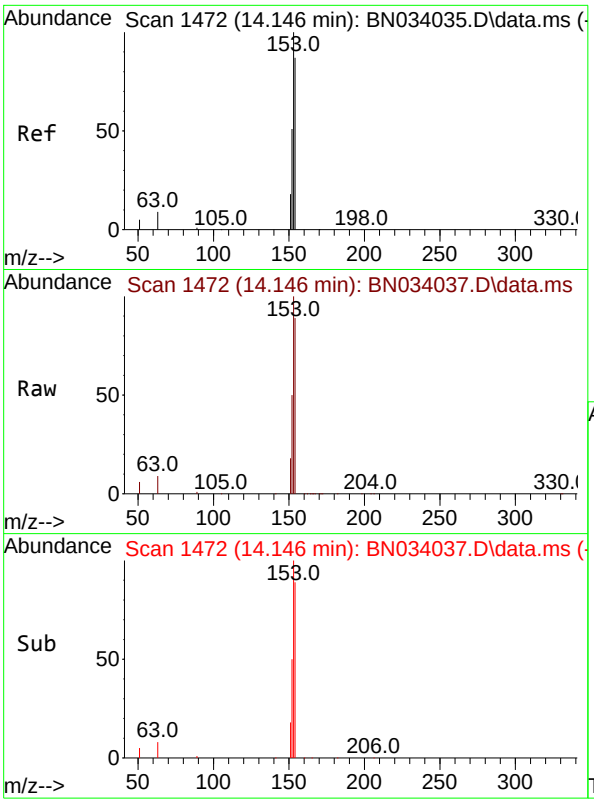


#16
Acenaphthylene
Concen: 1.725 ng
RT: 13.793 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:152 Resp: 87178

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.6	23.4
153	12.9	10.3	15.5



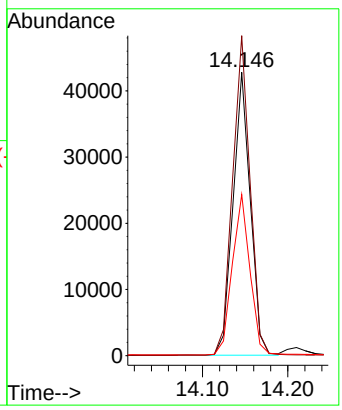


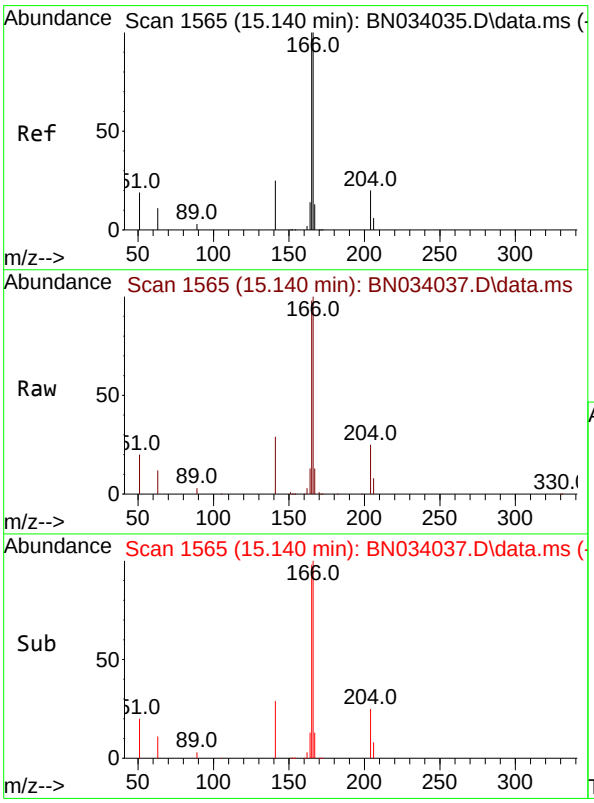
#17
Acenaphthene
Concen: 1.657 ng
RT: 14.146 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:154 Resp: 60082

Ion	Ratio	Lower	Upper
154	100		
153	114.1	91.6	137.4
152	58.0	47.4	71.2

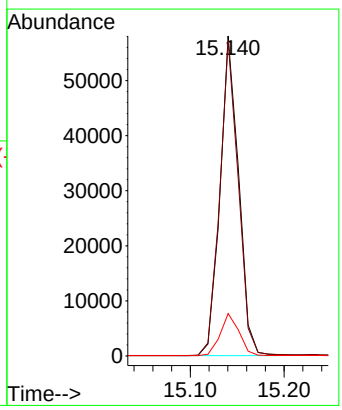


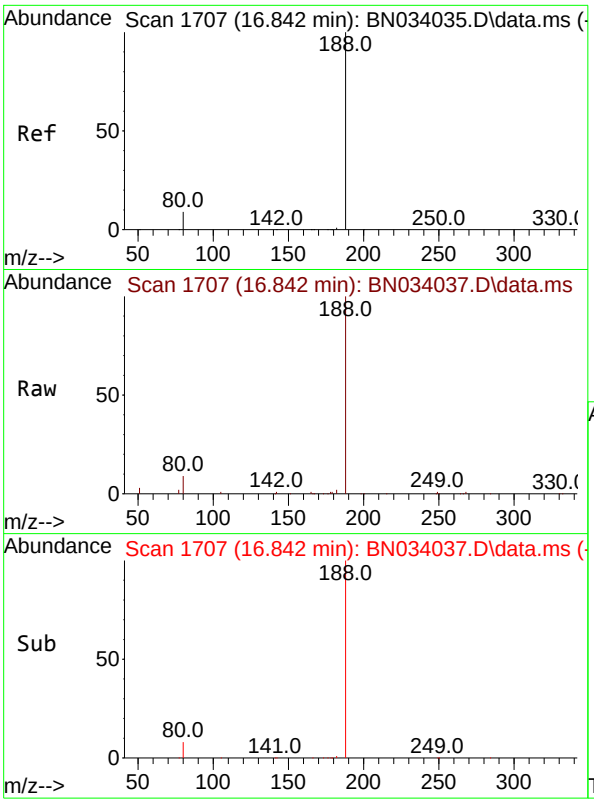


#18
Fluorene
Concen: 1.678 ng
RT: 15.140 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:166 Resp: 79821

Ion	Ratio	Lower	Upper
166	100		
165	97.9	79.1	118.7
167	13.3	10.6	15.8



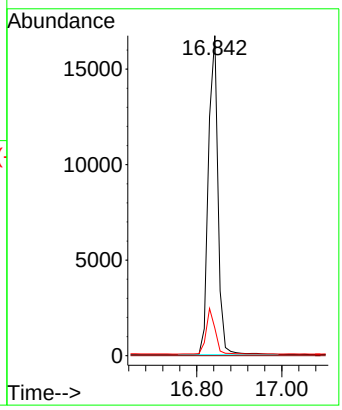


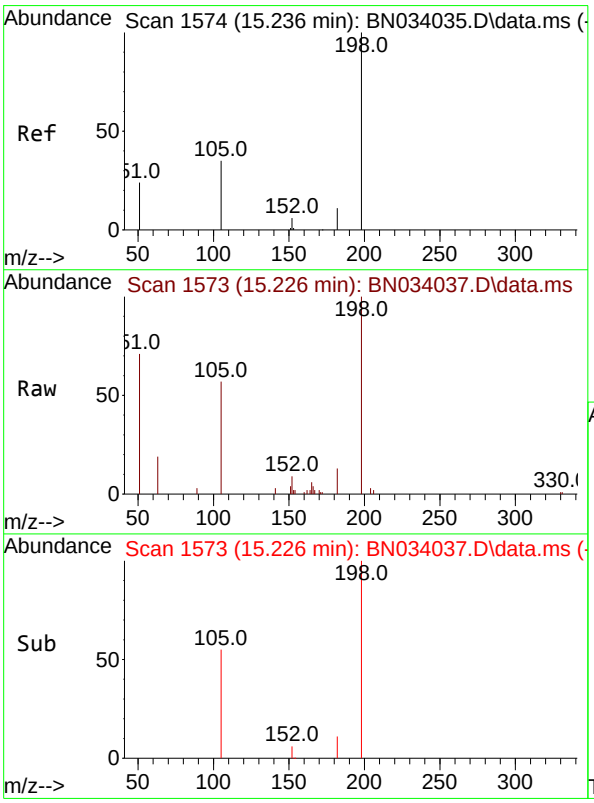
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.842 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:188 Resp: 26045

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	7.4	11.0

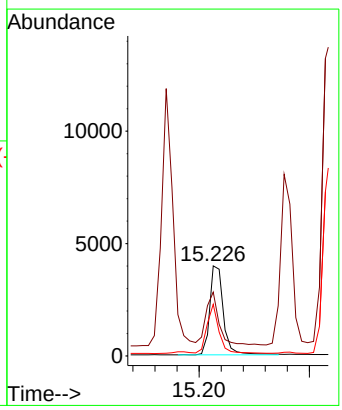


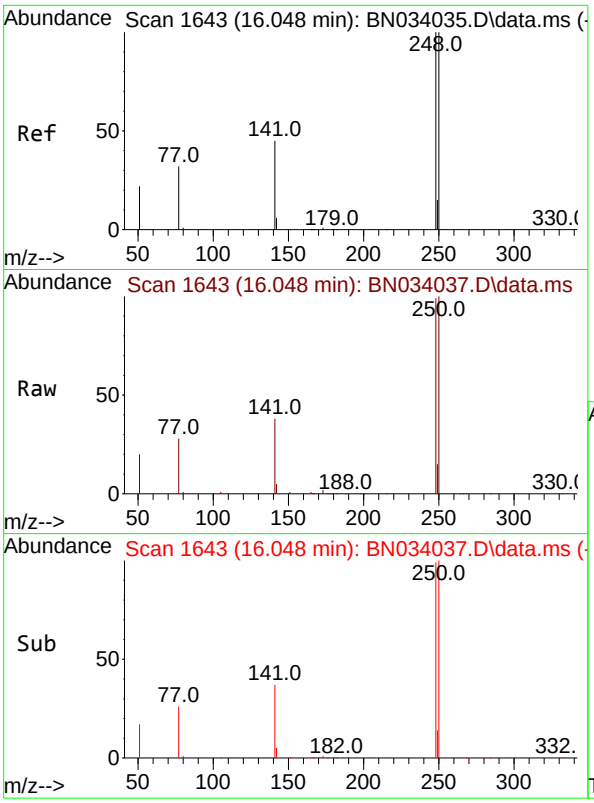


#20
4,6-Dinitro-2-methylphenol
Concen: 1.537 ng
RT: 15.226 min Scan# 1573
Delta R.T. -0.010 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:198 Resp: 6762

Ion	Ratio	Lower	Upper
198	100		
51	70.9	106.4	159.6#
105	57.4	38.5	57.7



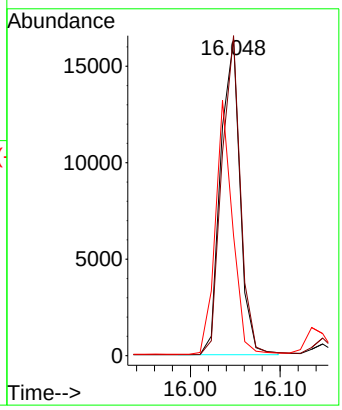


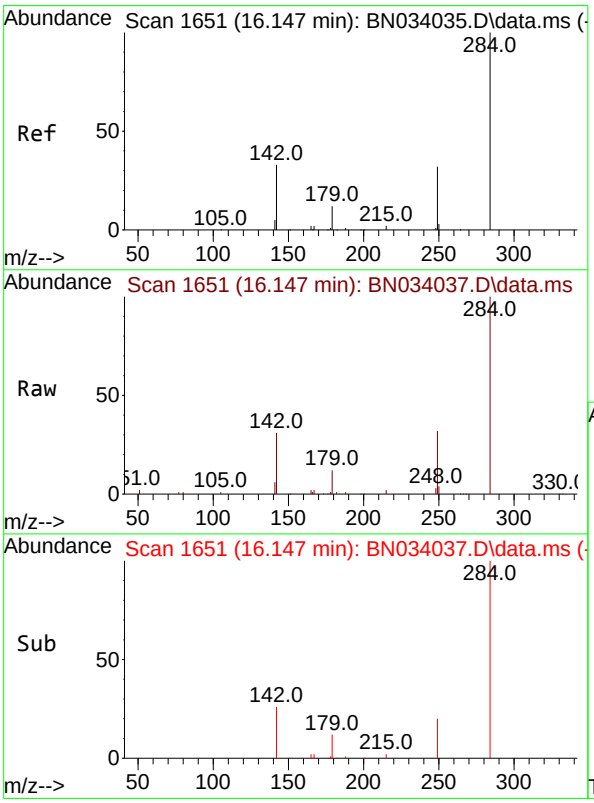
#21
4-Bromophenyl-phenylether
Concen: 1.680 ng
RT: 16.048 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:248 Resp: 24600

Ion	Ratio	Lower	Upper
248	100		
250	101.1	80.5	120.7
141	37.9	37.1	55.7

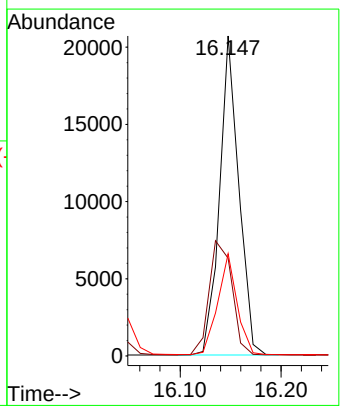


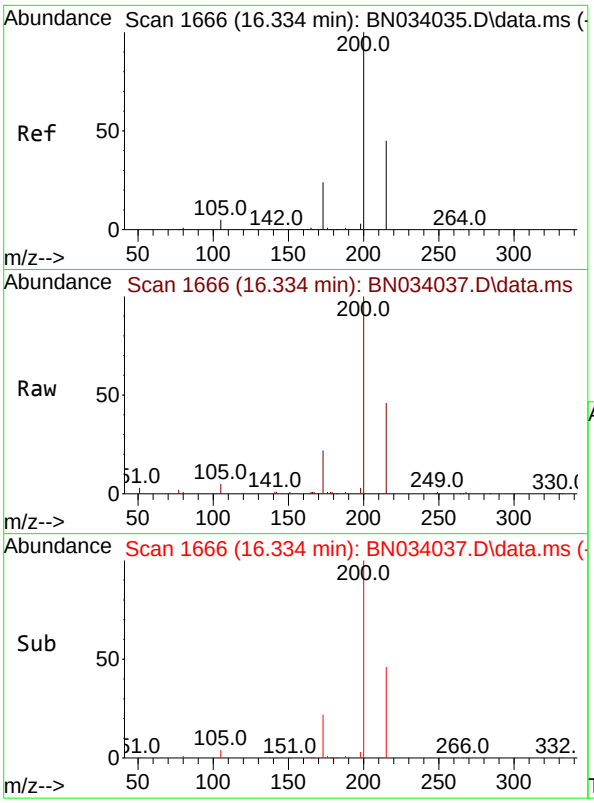


#22
Hexachlorobenzene
Concen: 1.668 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:284 Resp: 27375

Ion	Ratio	Lower	Upper
284	100		
142	42.3	34.5	51.7
249	31.6	25.8	38.6



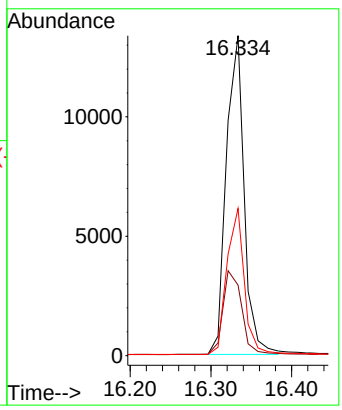


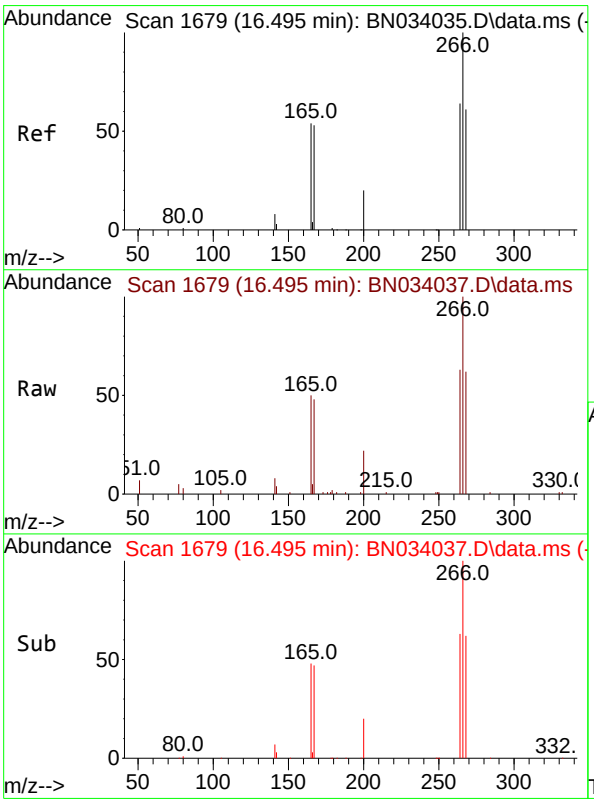
#23
Atrazine
Concen: 1.691 ng
RT: 16.334 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:200 Resp: 20513

Ion	Ratio	Lower	Upper
200	100		
173	22.0	20.1	30.1
215	46.0	37.0	55.6

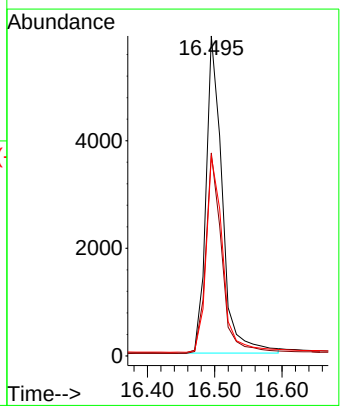


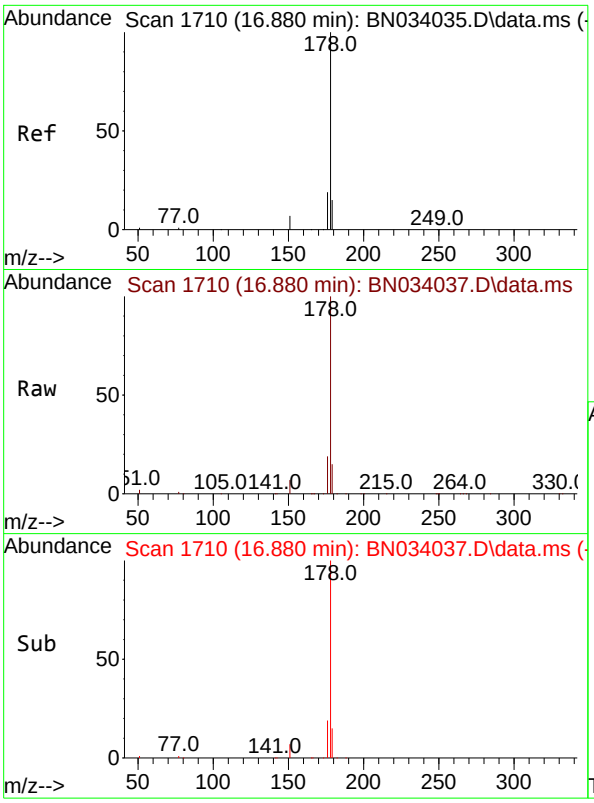


#24
Pentachlorophenol
Concen: 1.822 ng
RT: 16.495 min Scan# 1679
Delta R.T. -0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:266 Resp: 9892

Ion	Ratio	Lower	Upper
266	100		
264	62.1	50.2	75.2
268	63.0	51.0	76.4



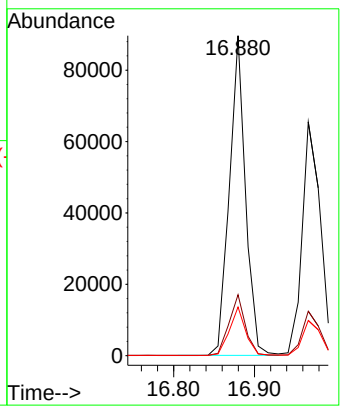


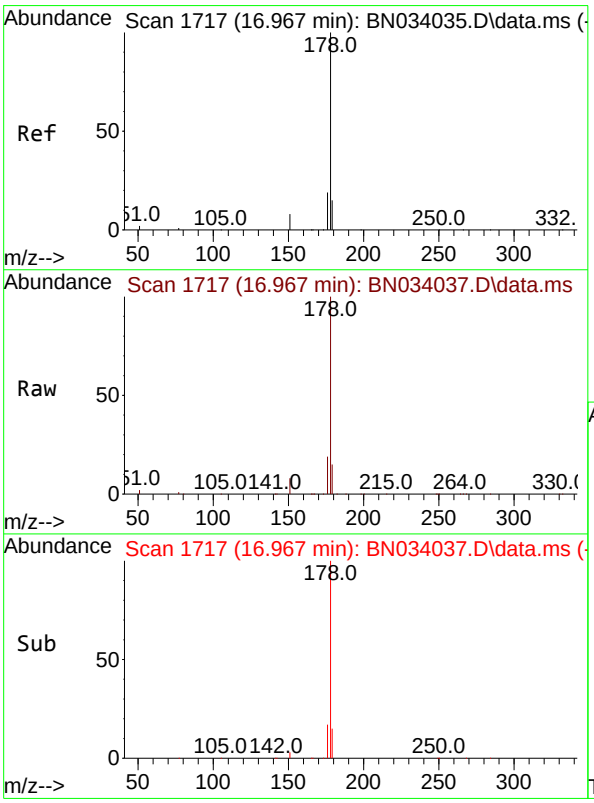
#25
Phenanthrene
Concen: 1.659 ng
RT: 16.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:178 Resp: 124101

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.1	12.1	18.1

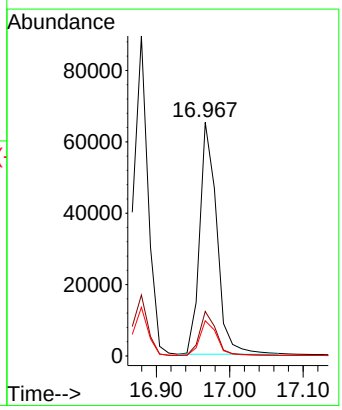


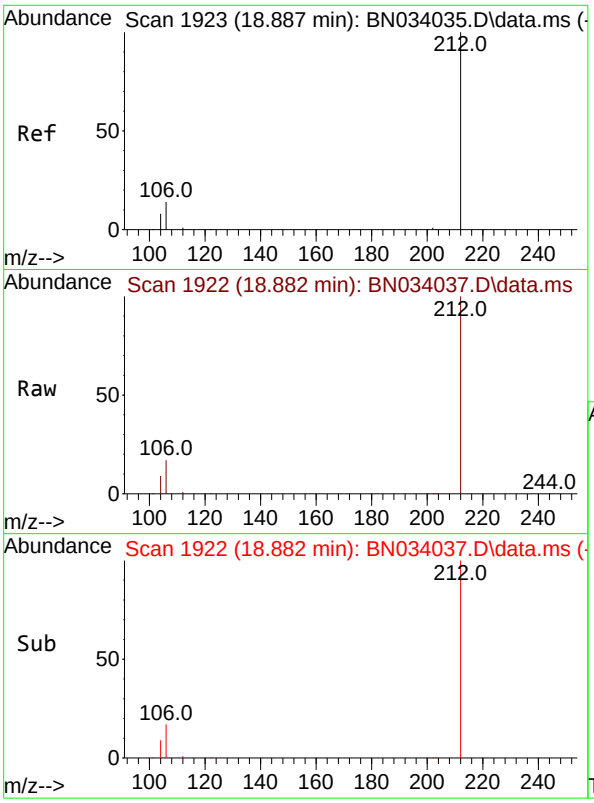


#26
Anthracene
Concen: 1.720 ng
RT: 16.967 min Scan# 1717
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:178 Resp: 105007

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.0	12.2	18.4



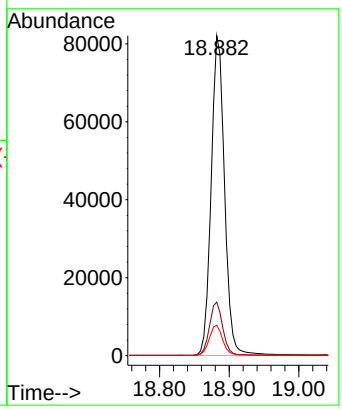


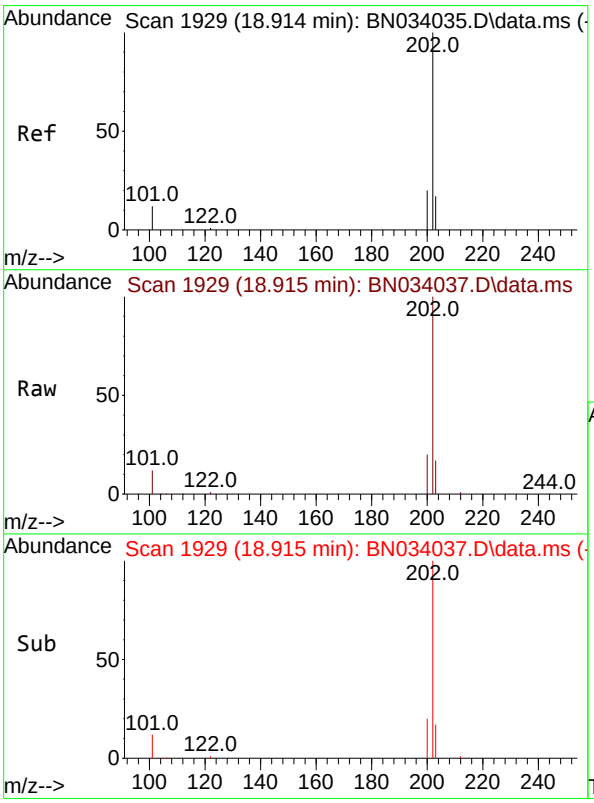
#27
Fluoranthene-d10
Concen: 1.671 ng
RT: 18.882 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:212 Resp: 109826

Ion	Ratio	Lower	Upper
212	100		
106	16.6	13.4	20.2
104	9.4	7.8	11.6

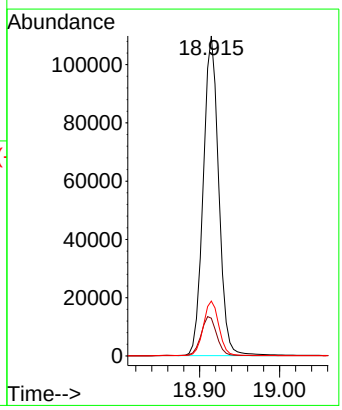


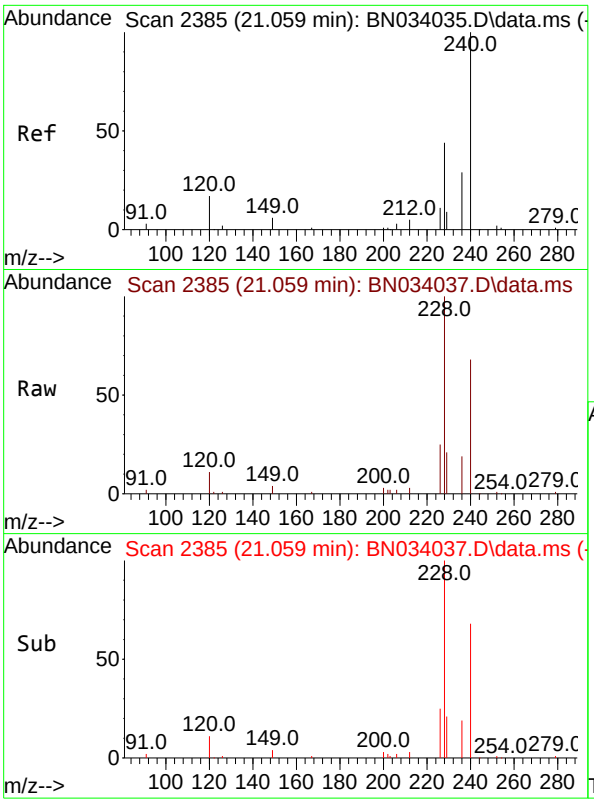


#28
Fluoranthene
Concen: 1.700 ng
RT: 18.915 min Scan# 1929
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:202 Resp: 147270

Ion	Ratio	Lower	Upper
202	100		
101	12.7	10.1	15.1
203	17.1	13.6	20.4



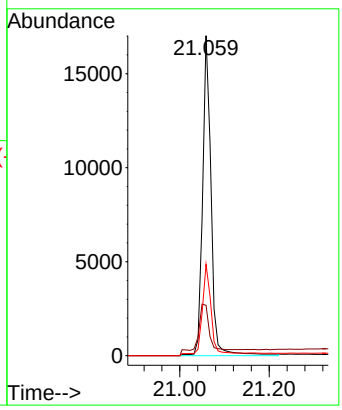


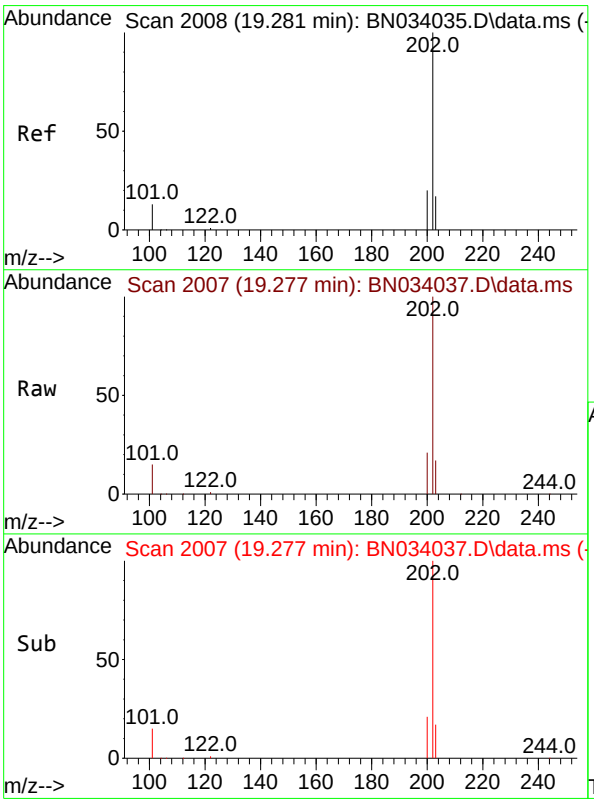
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.059 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:240 Resp: 21614

Ion	Ratio	Lower	Upper
240	100		
120	15.7	13.5	20.3
236	28.5	23.4	35.0

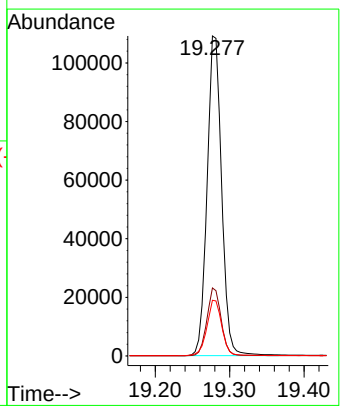


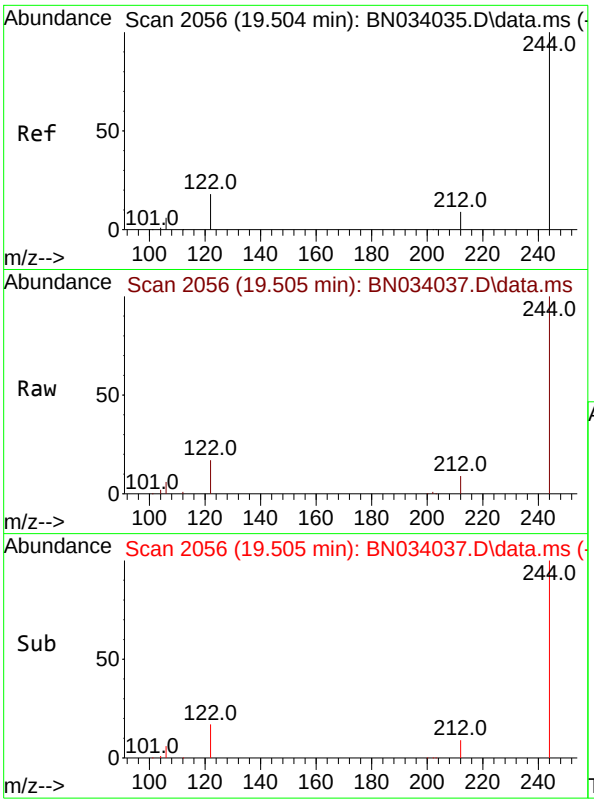


#30
Pyrene
Concen: 1.623 ng
RT: 19.277 min Scan# 2007
Delta R.T. -0.005 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:202 Resp: 148059

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	25.0
203	17.8	14.3	21.5



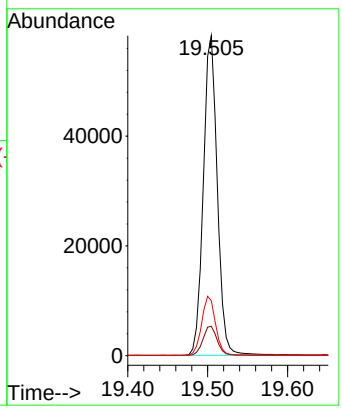


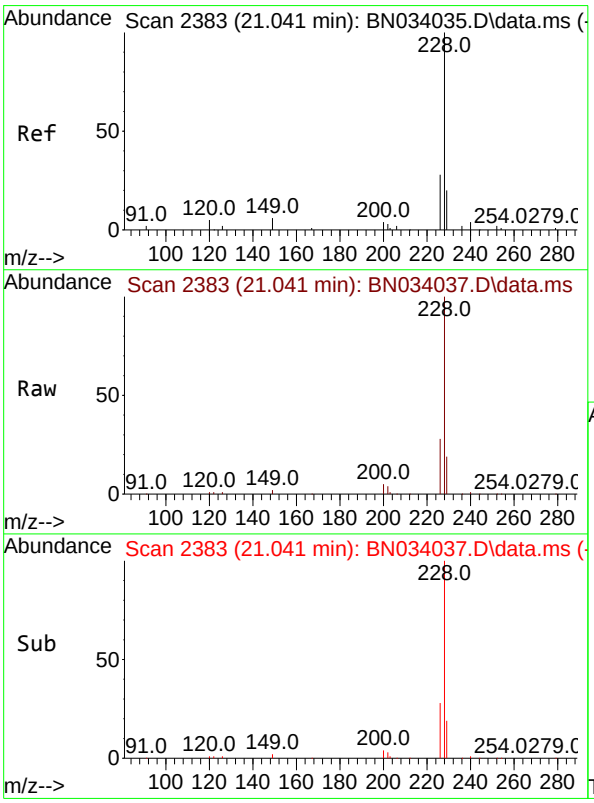
#31
Terphenyl-d14
Concen: 1.644 ng
RT: 19.505 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:244 Resp: 70948

Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.8	11.6
122	17.2	14.8	22.2

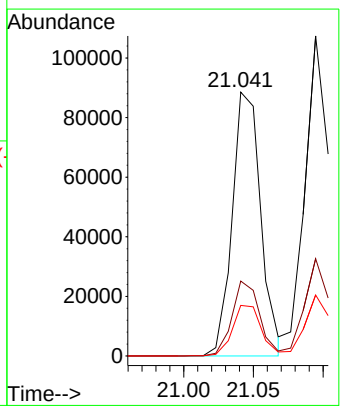


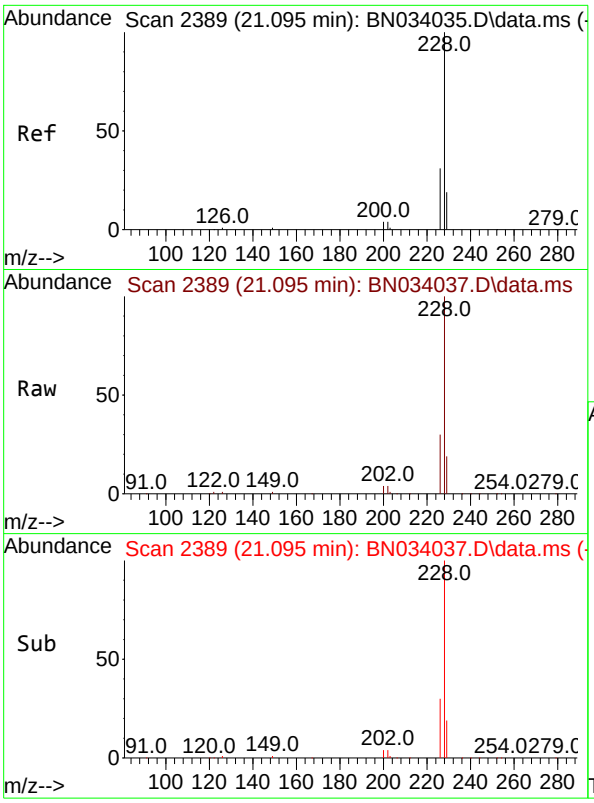


#32
Benzo(a)anthracene
Concen: 1.647 ng
RT: 21.041 min Scan# 2383
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:228 Resp: 112646

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.3	33.5
229	19.2	15.7	23.5



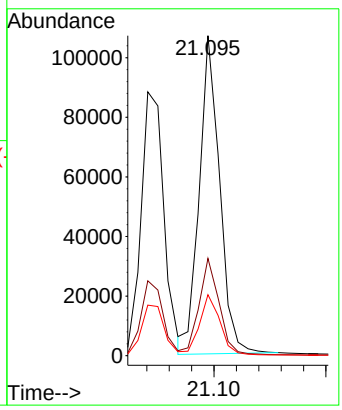


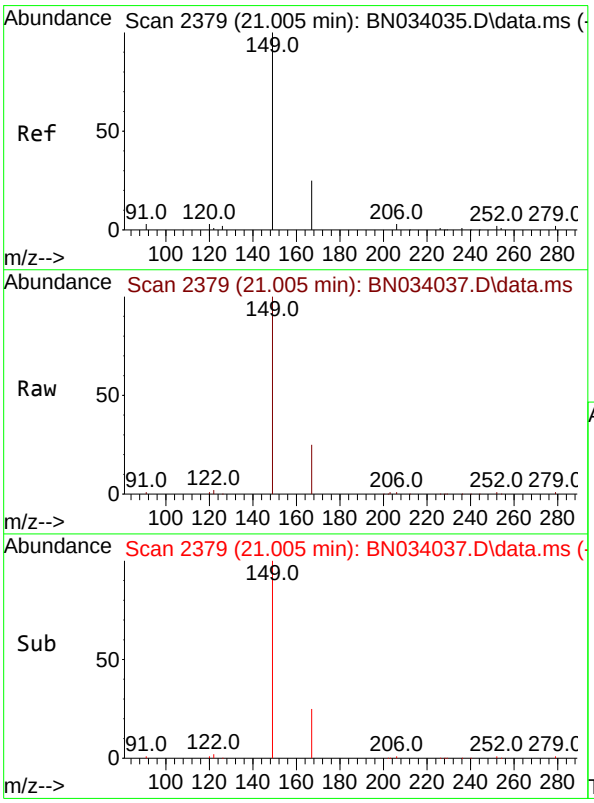
#33
Chrysene
Concen: 1.653 ng
RT: 21.095 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:228 Resp: 134824

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	19.1	15.5	23.3

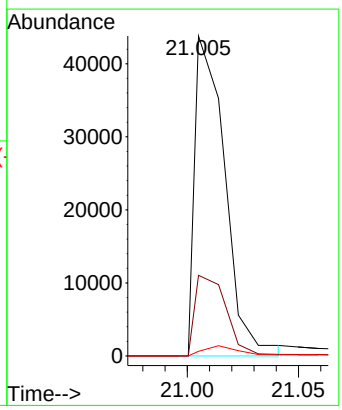


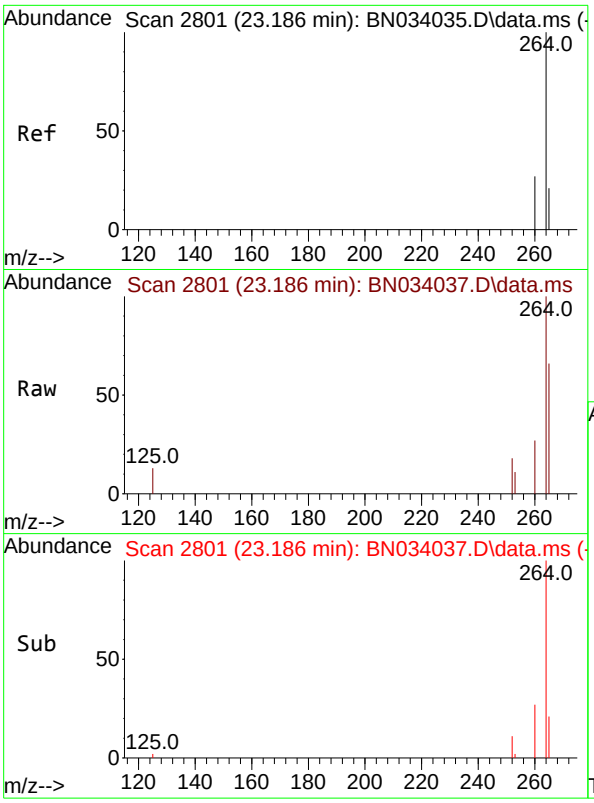


#34
Bis(2-ethylhexyl)phthalate
Concen: 1.387 ng
RT: 21.005 min Scan# 2379
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:149 Resp: 39500

Ion	Ratio	Lower	Upper
149	100		
167	26.1	19.9	29.9
279	3.5	4.6	6.8#



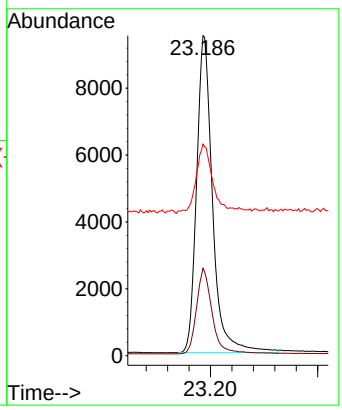


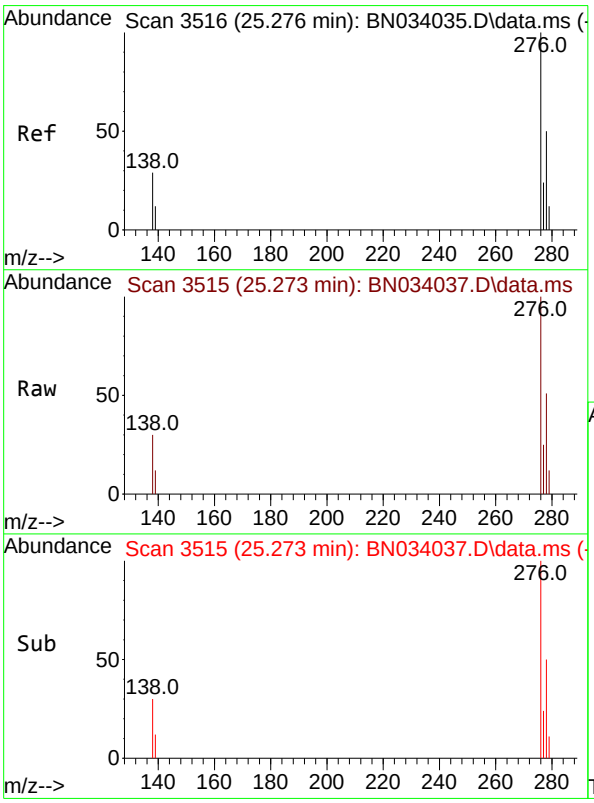
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.186 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:264 Resp: 19600

Ion	Ratio	Lower	Upper
264	100		
260	27.3	21.7	32.5
265	66.1	52.1	78.1

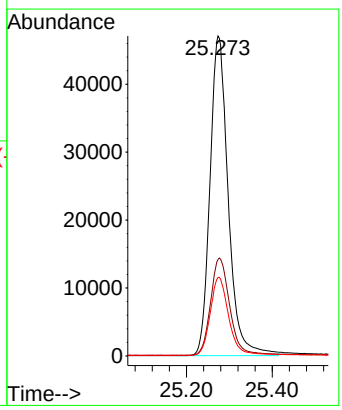


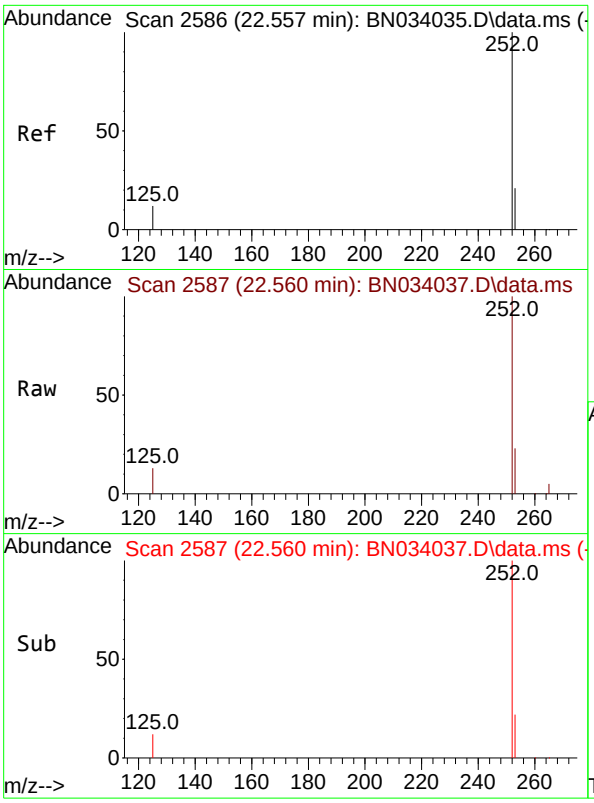


#36
Indeno(1,2,3-cd)pyrene
Concen: 1.655 ng
RT: 25.273 min Scan# 3515
Delta R.T. -0.003 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:276 Resp: 138960

Ion	Ratio	Lower	Upper
276	100		
138	31.9	25.9	38.9
277	24.7	19.7	29.5



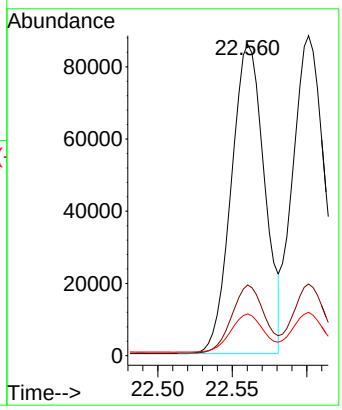


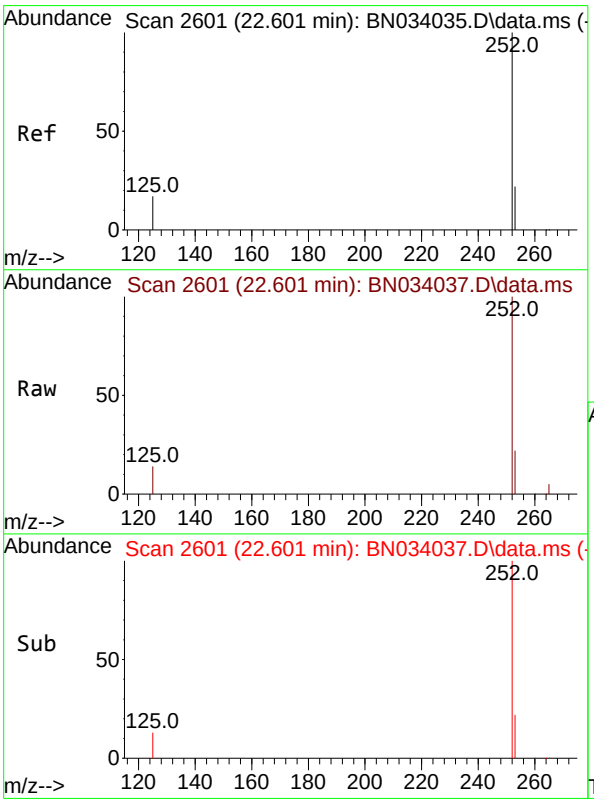
#37
Benzo(b)fluoranthene
Concen: 1.731 ng
RT: 22.560 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 132911

Ion	Ratio	Lower	Upper
252	100		
253	22.7	19.6	29.4
125	13.4	13.8	20.8#

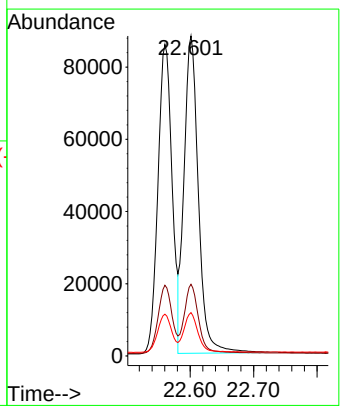


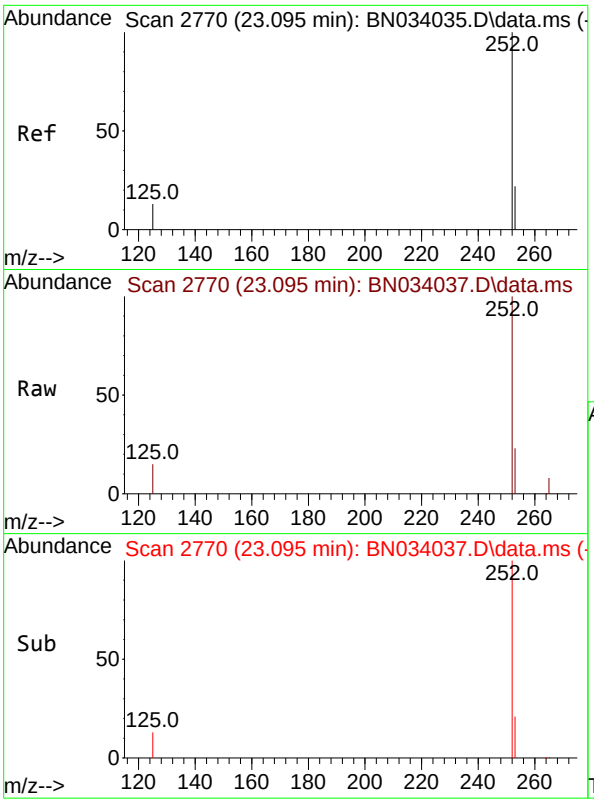


#38
Benzo(k)fluoranthene
Concen: 1.712 ng
RT: 22.601 min Scan# 2601
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:252 Resp: 137998

Ion	Ratio	Lower	Upper
252	100		
253	22.4	20.1	30.1
125	13.6	16.8	25.2#



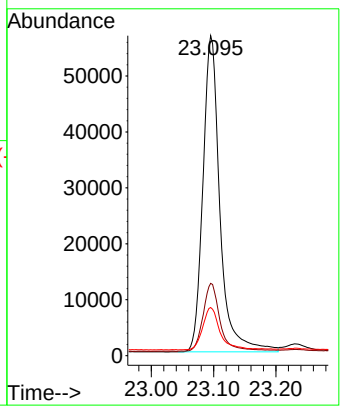


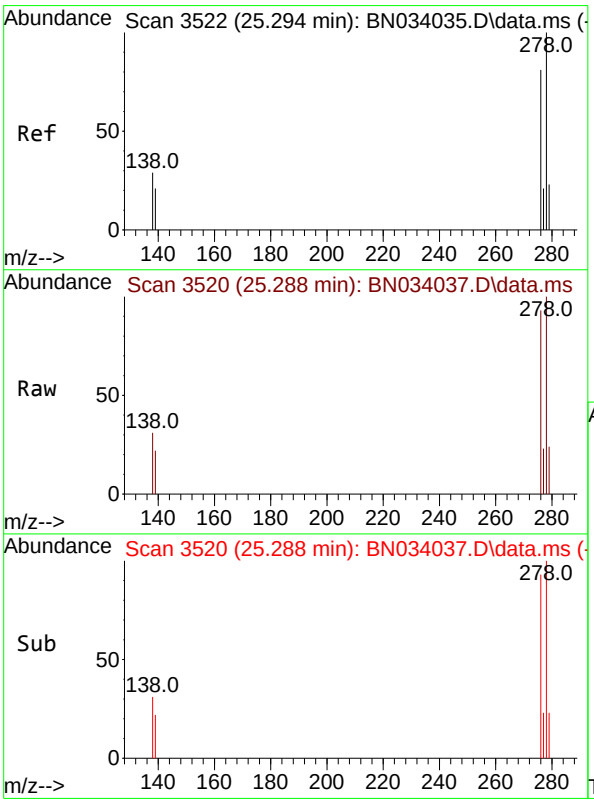
#39
Benzo(a)pyrene
Concen: 1.715 ng
RT: 23.095 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:252 Resp: 107316

Ion	Ratio	Lower	Upper
252	100		
253	22.6	21.8	32.8
125	15.0	17.5	26.3#

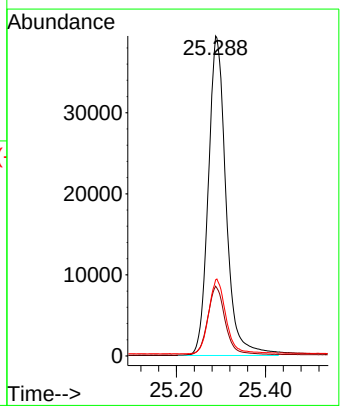


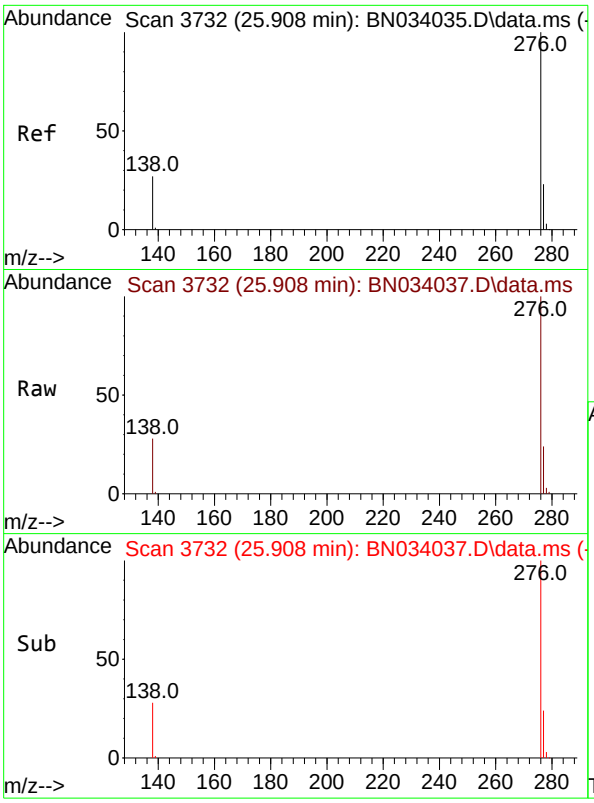


#40
Dibenzo(a,h)anthracene
Concen: 1.671 ng
RT: 25.288 min Scan# 3520
Delta R.T. -0.006 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Tgt Ion:278 Resp: 108998

Ion	Ratio	Lower	Upper
278	100		
139	21.8	17.8	26.8
279	23.8	21.0	31.6



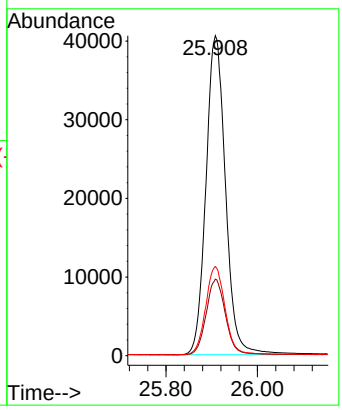


#41
Benzo(g,h,i)perylene
Concen: 1.641 ng
RT: 25.908 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN034037.D
Acq: 18 Sep 2024 14:17

Instrument :
BNA_N
ClientSampleId :
SSTDICC1.6

Tgt Ion:276 Resp: 120262

Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.3	28.9
138	27.8	22.6	34.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034038.D
Acq On : 18 Sep 2024 14:54
Operator : JU/RC
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Sep 18 16:15:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.437	152	7307	0.400	ng		0.00
7) Naphthalene-d8	10.197	136	21131	0.400	ng		0.00
13) Acenaphthene-d10	14.082	164	12153	0.400	ng		0.00
19) Phenanthrene-d10	16.842	188	26614	0.400	ng		0.00
29) Chrysene-d12	21.059	240	22873	0.400	ng		0.00
35) Perylene-d12	23.189	264	20684	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.075	112	63110	3.043	ng		0.00
5) Phenol-d6	6.635	99	80154	3.323	ng		0.00
8) Nitrobenzene-d5	8.574	82	54215	3.354	ng		0.00
11) 2-Methylnaphthalene-d10	11.794	152	98906	3.170	ng		0.00
14) 2,4,6-Tribromophenol	15.589	330	19161	3.480	ng		0.00
15) 2-Fluorobiphenyl	12.692	172	155310	3.142	ng		-0.01
27) Fluoranthene-d10	18.887	212	215735	3.213	ng		0.00
31) Terphenyl-d14	19.504	244	140407	3.074	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.074	88	27346	2.993	ng		93
3) n-Nitrosodimethylamine	3.370	42	32761	3.151	ng	#	97
6) bis(2-Chloroethyl)ether	6.880	93	67753	3.175	ng		98
9) Naphthalene	10.240	128	180527	3.113	ng		99
10) Hexachlorobutadiene	10.539	225	32520	2.976	ng	#	99
12) 2-Methylnaphthalene	11.869	142	120585	3.195	ng		98
16) Acenaphthylene	13.793	152	178740	3.436	ng		100
17) Acenaphthene	14.146	154	118987	3.189	ng		98
18) Fluorene	15.140	166	157300	3.213	ng		99
20) 4,6-Dinitro-2-methylph...	15.226	198	15277	3.232	ng	#	55
21) 4-Bromophenyl-phenylether	16.048	248	47888	3.201	ng	#	94
22) Hexachlorobenzene	16.147	284	52341	3.120	ng		100
23) Atrazine	16.334	200	40875	3.297	ng		96
24) Pentachlorophenol	16.495	266	22273	4.015	ng		100
25) Phenanthrene	16.880	178	240379	3.145	ng		100
26) Anthracene	16.967	178	215284	3.452	ng		100
28) Fluoranthene	18.914	202	289295	3.268	ng		100
30) Pyrene	19.281	202	296441	3.071	ng		100
32) Benzo(a)anthracene	21.050	228	232693	3.216	ng		99
33) Chrysene	21.095	228	267873	3.103	ng		100
34) Bis(2-ethylhexyl)phtha...	21.014	149	88712	2.943	ng	#	96
36) Indeno(1,2,3-cd)pyrene	25.279	276	284132	3.206	ng		99
37) Benzo(b)fluoranthene	22.560	252	274115	3.383	ng	#	93
38) Benzo(k)fluoranthene	22.604	252	269423	3.168	ng	#	89
39) Benzo(a)pyrene	23.095	252	221768	3.358	ng	#	87
40) Dibenzo(a,h)anthracene	25.294	278	224248	3.257	ng		96
41) Benzo(g,h,i)perylene	25.911	276	244366	3.160	ng		98

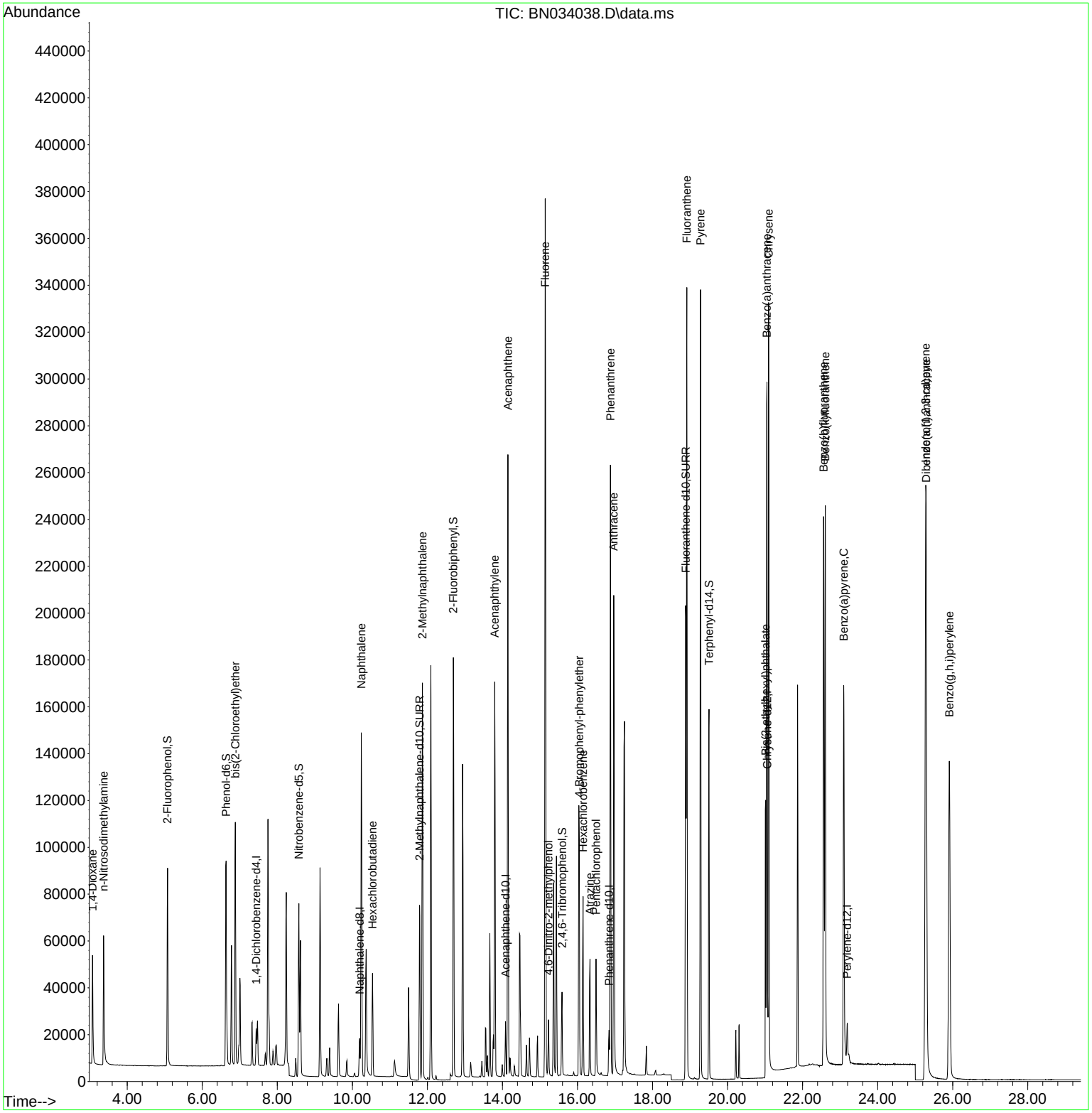
(#) = qualifier out of range (m) = manual integration (+) = signals summed

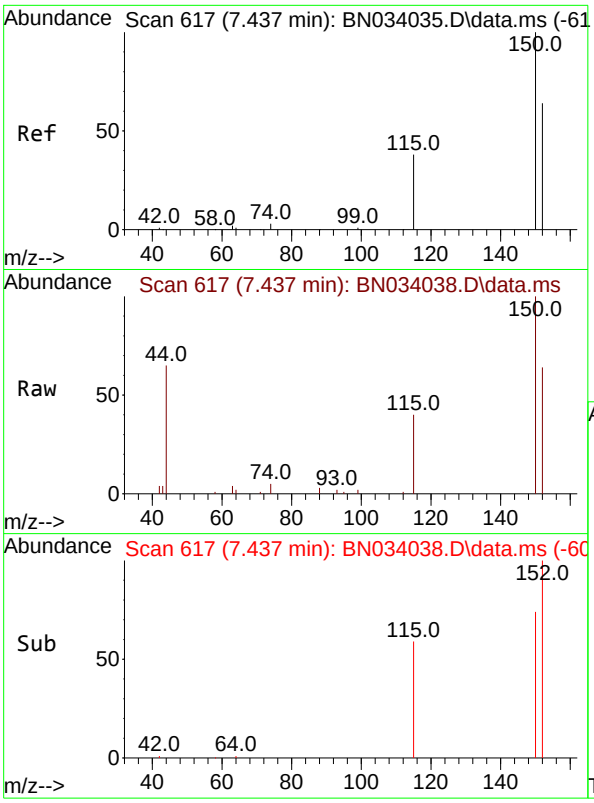
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034038.D
Acq On : 18 Sep 2024 14:54
Operator : JU/RC
Sample : SSTDICC3.2
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Quant Time: Sep 18 16:15:46 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



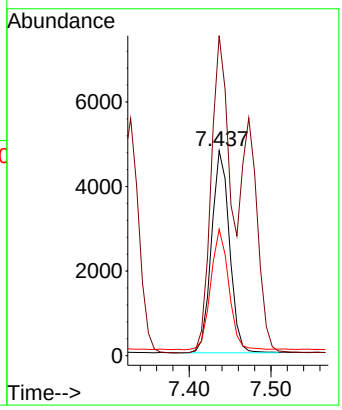


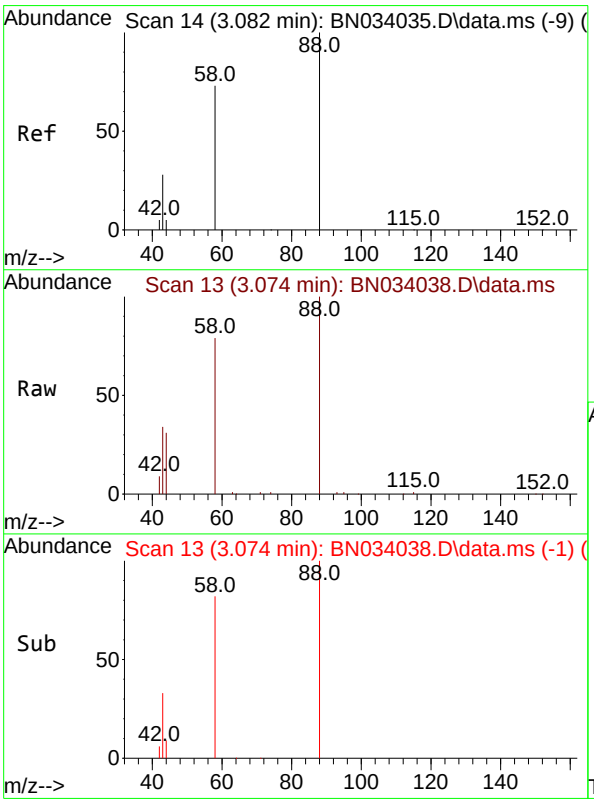
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.437 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 7307

Ion	Ratio	Lower	Upper
152	100		
150	156.2	124.6	187.0
115	61.7	50.0	75.0

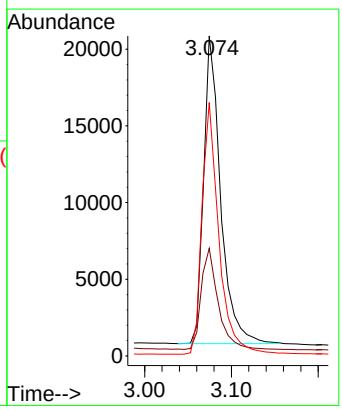


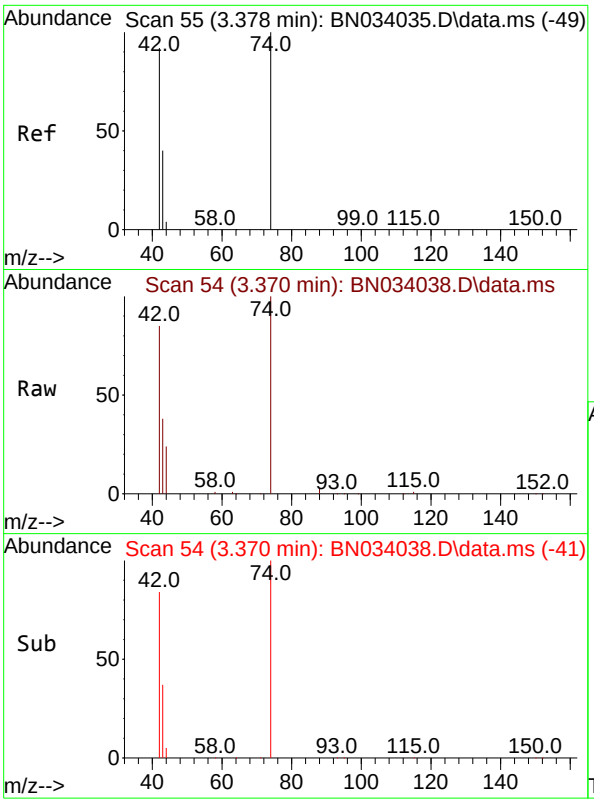


#2
1,4-Dioxane
Concen: 2.993 ng
RT: 3.074 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion: 88 Resp: 27346

Ion	Ratio	Lower	Upper
88	100		
43	32.6	25.8	38.8
58	81.3	58.8	88.2



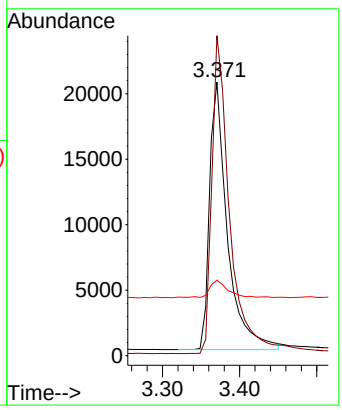


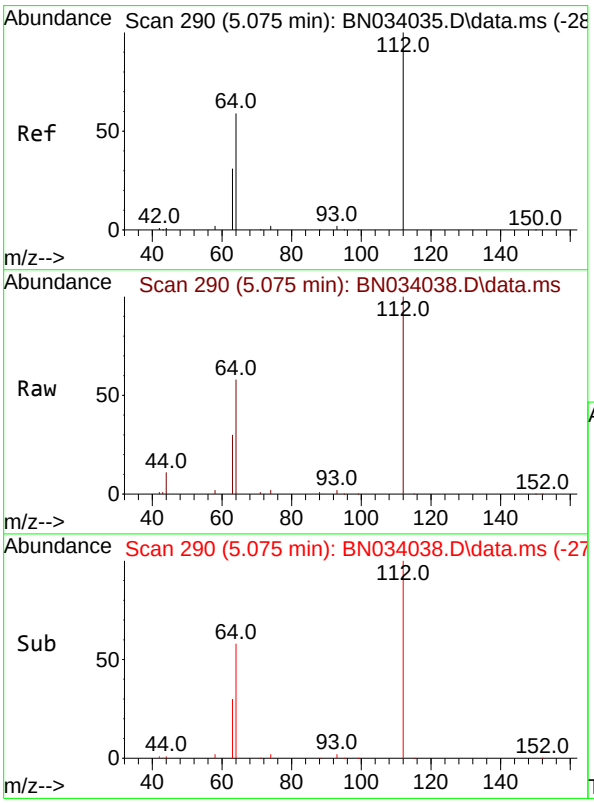
#3
n-Nitrosodimethylamine
Concen: 3.151 ng
RT: 3.370 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 42 Resp: 32761

Ion	Ratio	Lower	Upper
42	100		
74	117.8	94.6	142.0
44	6.8	12.4	18.6#

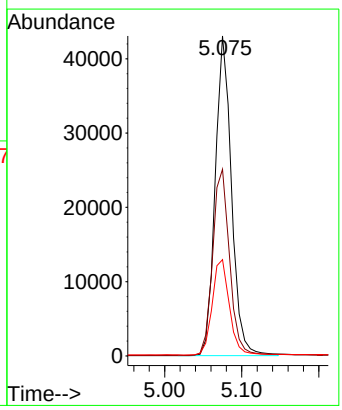


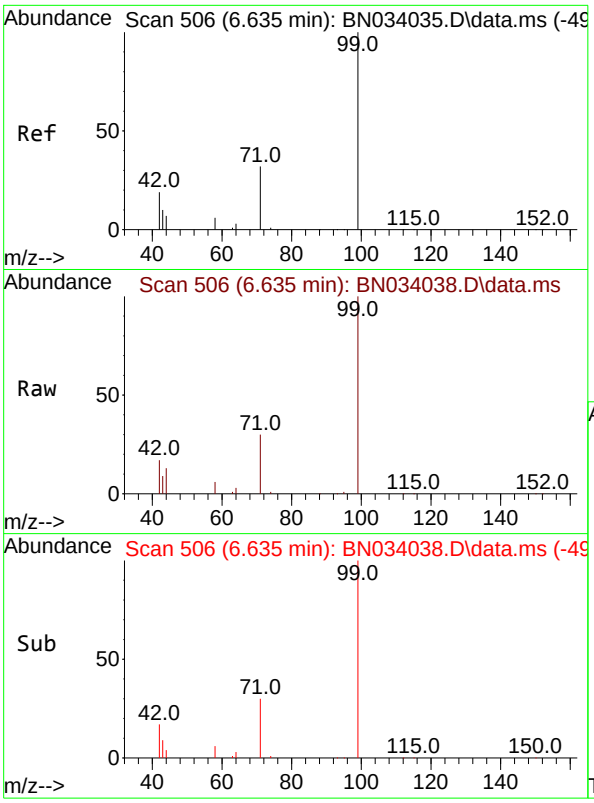


#4
2-Fluorophenol
Concen: 3.043 ng
RT: 5.075 min Scan# 290
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:112 Resp: 63110

Ion	Ratio	Lower	Upper
112	100		
64	60.3	48.6	72.8
63	31.4	25.6	38.4



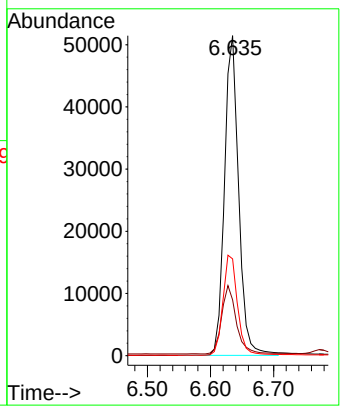


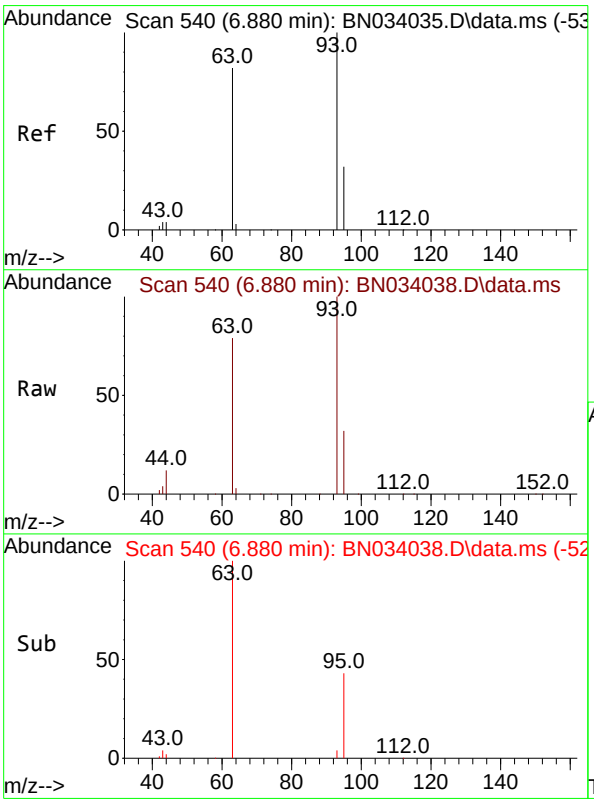
#5
Phenol-d6
Concen: 3.323 ng
RT: 6.635 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion: 99 Resp: 80154

Ion	Ratio	Lower	Upper
99	100		
42	22.2	17.8	26.8
71	32.3	26.2	39.2

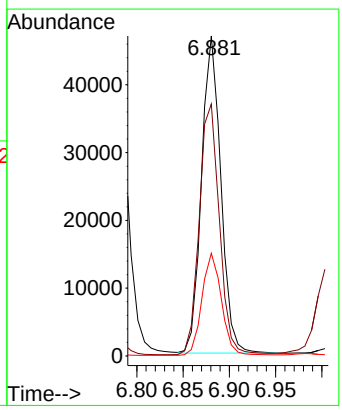


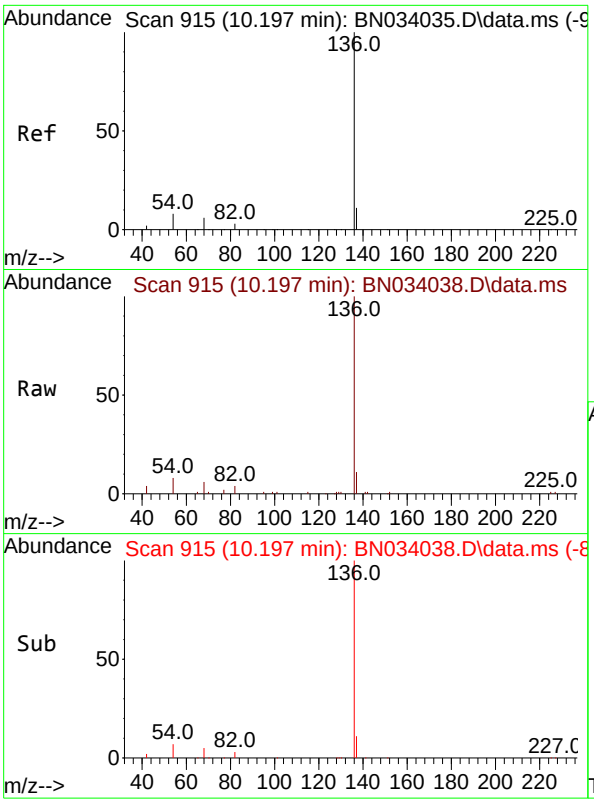


#6
bis(2-Chloroethyl)ether
Concen: 3.175 ng
RT: 6.880 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion: 93 Resp: 67753

Ion	Ratio	Lower	Upper
93	100		
63	82.6	67.3	100.9
95	32.6	26.8	40.2



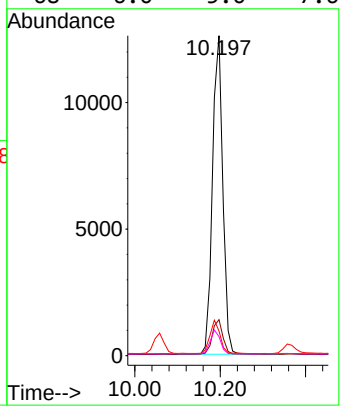


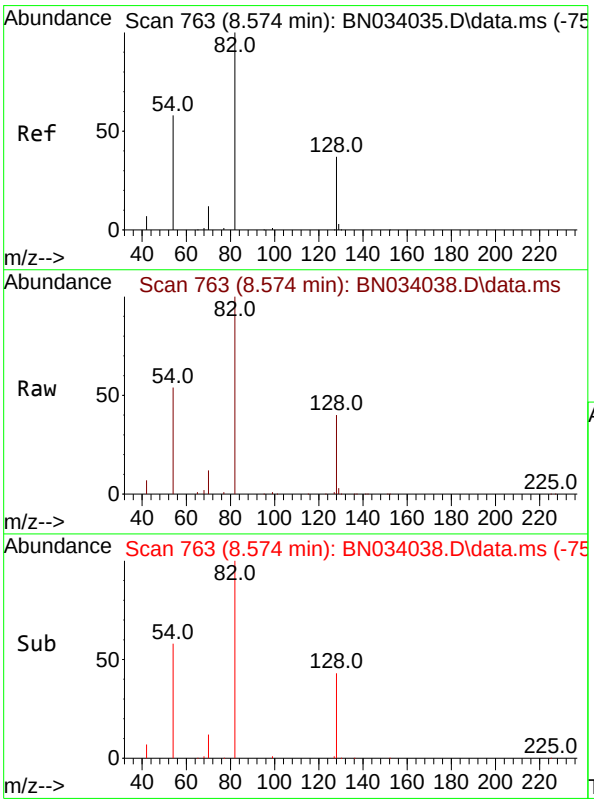
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.197 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:136 Resp: 21131

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	7.7	6.8	10.2
68	6.0	5.0	7.6

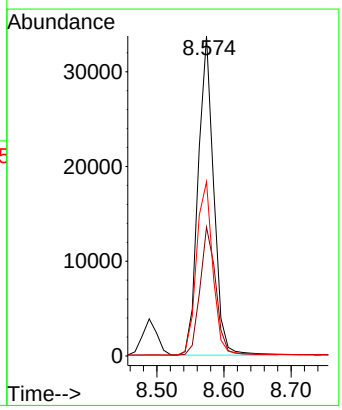


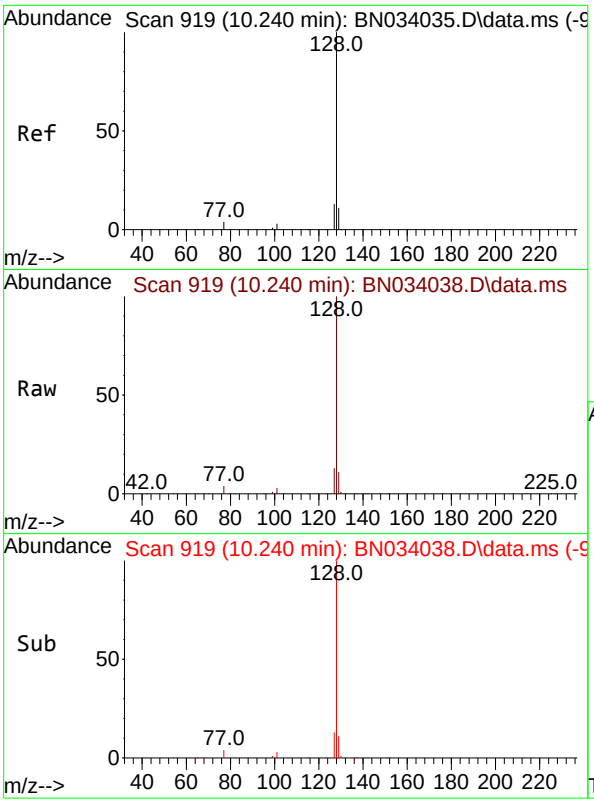


#8
Nitrobenzene-d5
Concen: 3.354 ng
RT: 8.574 min Scan# 763
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion: 82 Resp: 54215

Ion	Ratio	Lower	Upper
82	100		
128	40.3	31.4	47.2
54	54.5	47.4	71.0



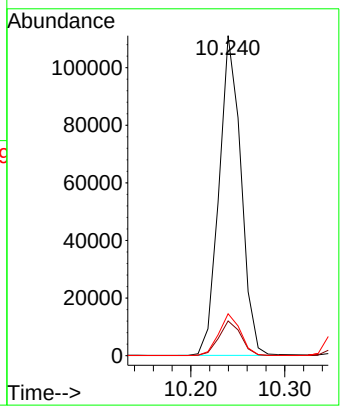


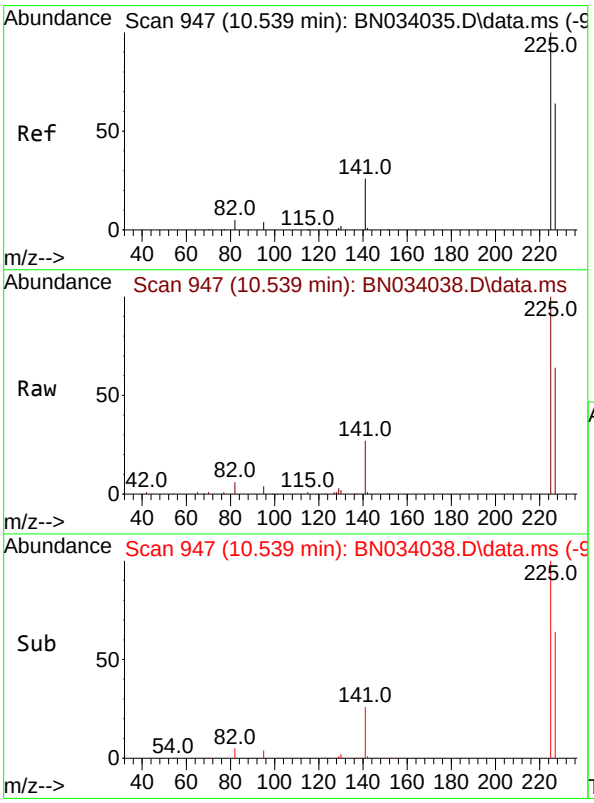
#9
Naphthalene
Concen: 3.113 ng
RT: 10.240 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:128 Resp: 180527

Ion	Ratio	Lower	Upper
128	100		
129	10.9	9.2	13.8
127	13.1	10.7	16.1

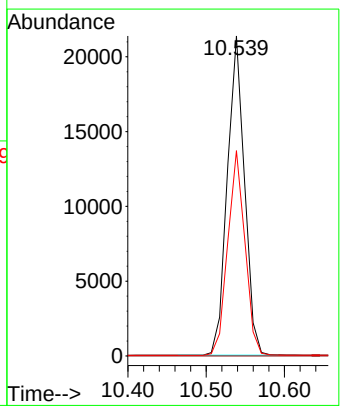


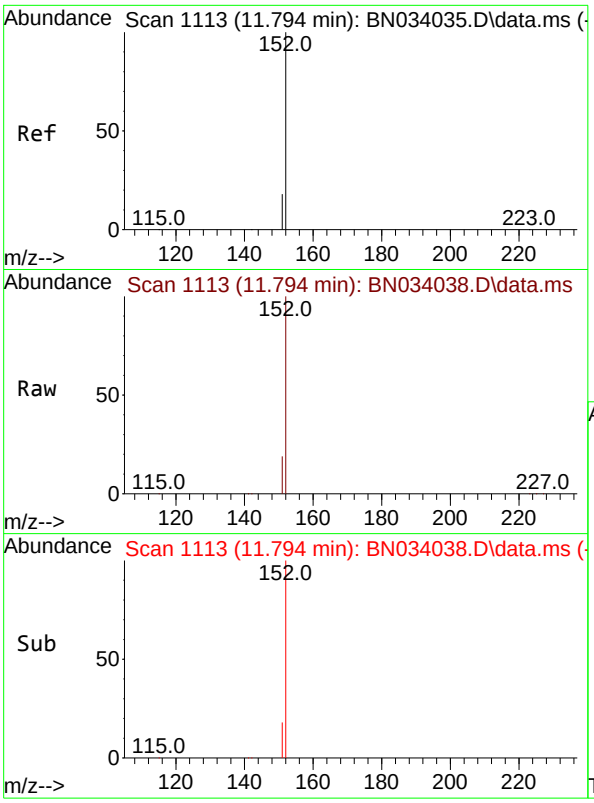


#10
Hexachlorobutadiene
Concen: 2.976 ng
RT: 10.539 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:225 Resp: 32520

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.9	50.5	75.7



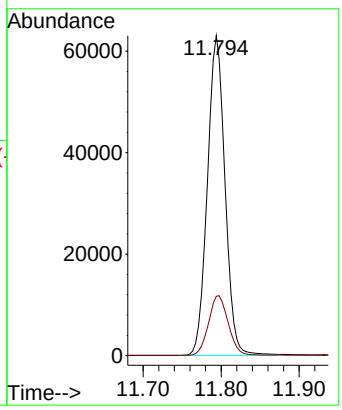


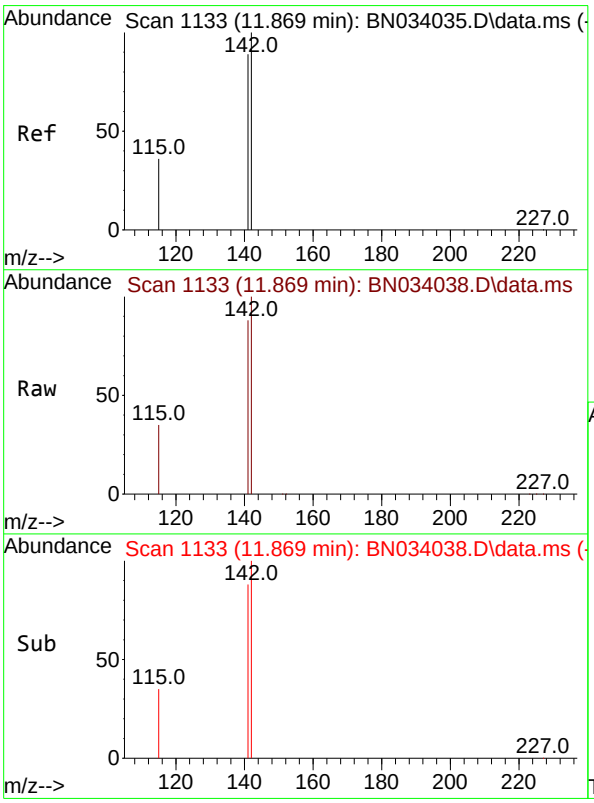
#11
2-Methylnaphthalene-d10
Concen: 3.170 ng
RT: 11.794 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:152 Resp: 98906

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.8	25.2

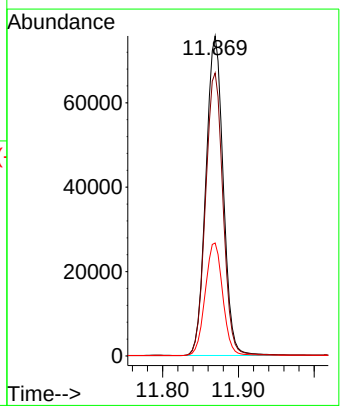


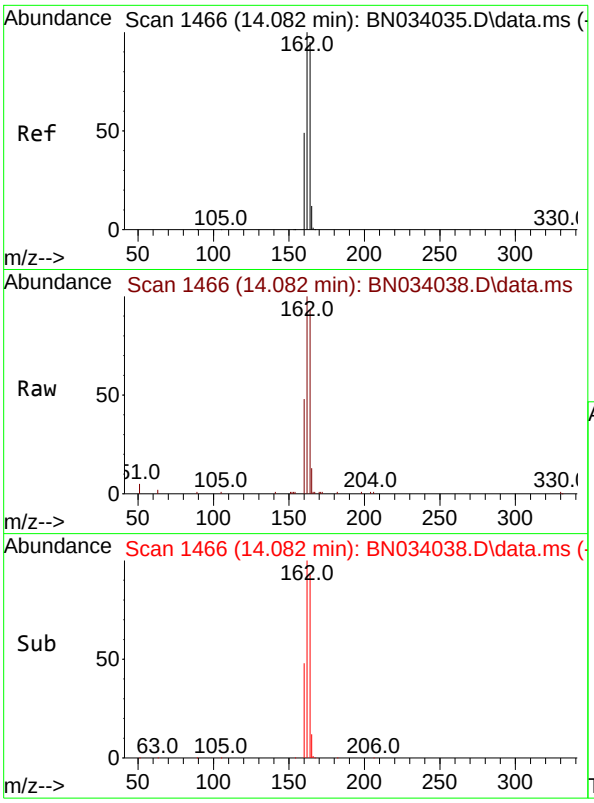


#12
2-Methylnaphthalene
Concen: 3.195 ng
RT: 11.869 min Scan# 1133
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:142 Resp: 120585

Ion	Ratio	Lower	Upper
142	100		
141	88.4	71.6	107.4
115	35.3	30.0	45.0



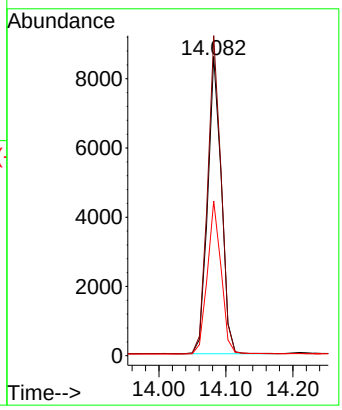


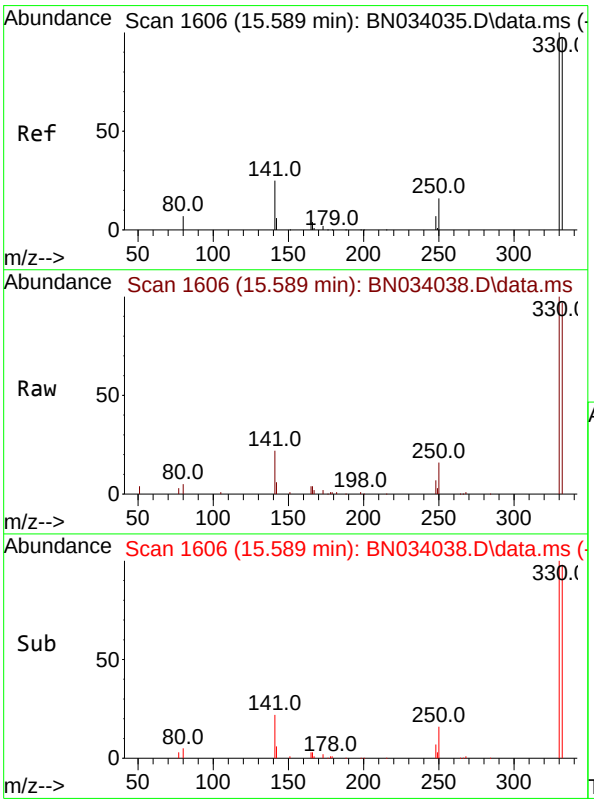
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:164 Resp: 12153

Ion	Ratio	Lower	Upper
164	100		
162	107.0	84.2	126.2
160	51.7	41.7	62.5

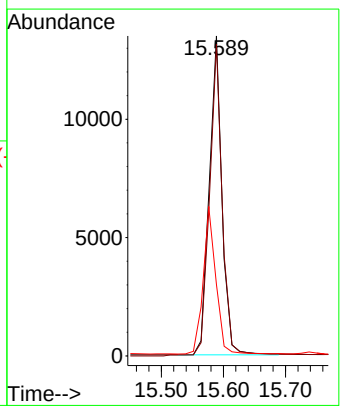


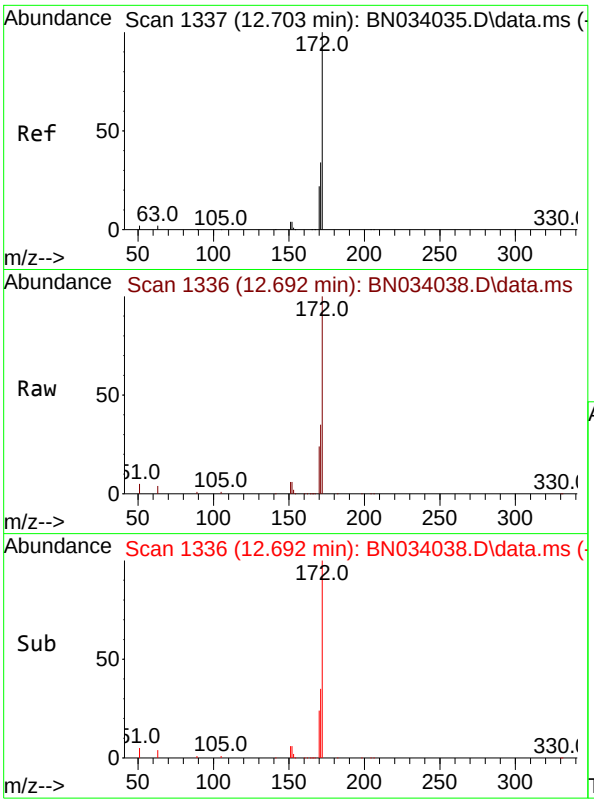


#14
2,4,6-Tribromophenol
Concen: 3.480 ng
RT: 15.589 min Scan# 1606
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:330 Resp: 19161

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.4	116.0
141	46.1	35.9	53.9



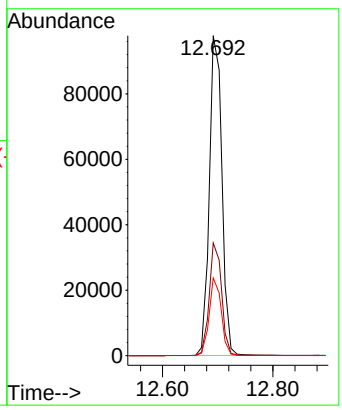


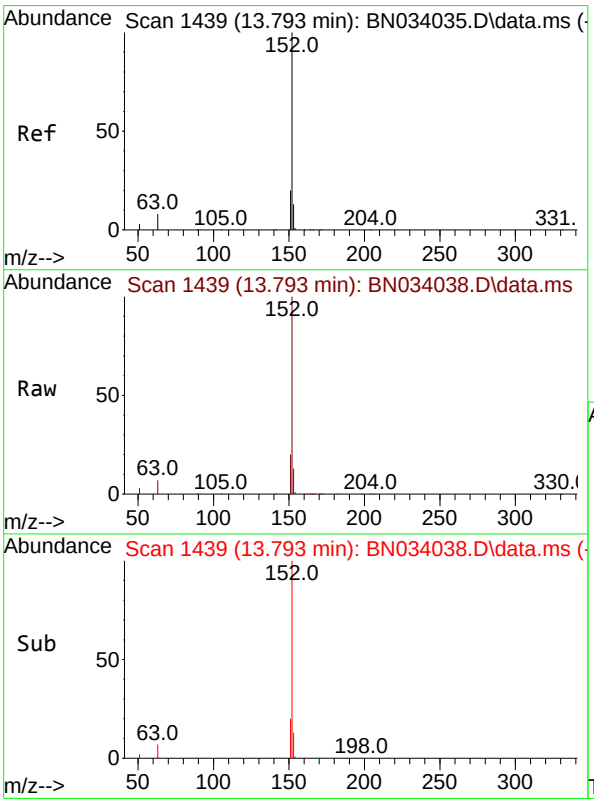
#15
2-Fluorobiphenyl
Concen: 3.142 ng
RT: 12.692 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:172 Resp: 155310

Ion	Ratio	Lower	Upper
172	100		
171	35.3	27.3	40.9
170	24.3	18.1	27.1

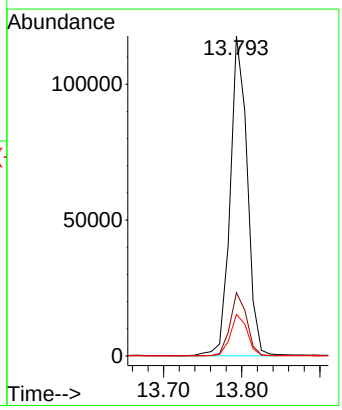


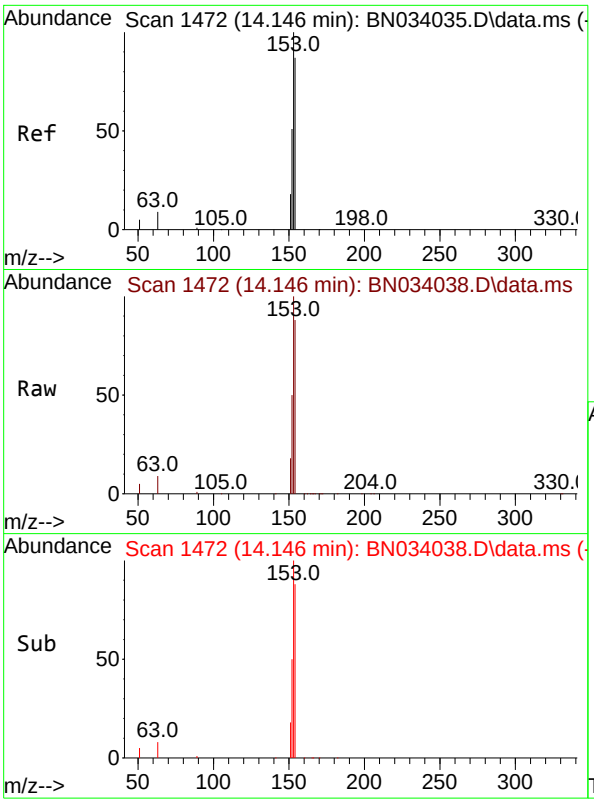


#16
Acenaphthylene
Concen: 3.436 ng
RT: 13.793 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:152 Resp: 178740

Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.6	23.4
153	12.9	10.3	15.5



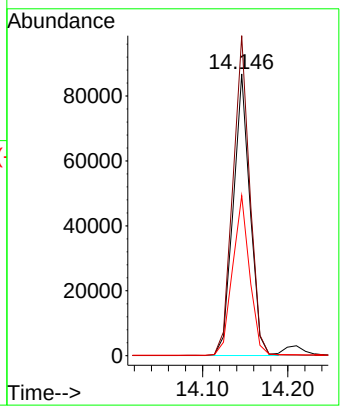


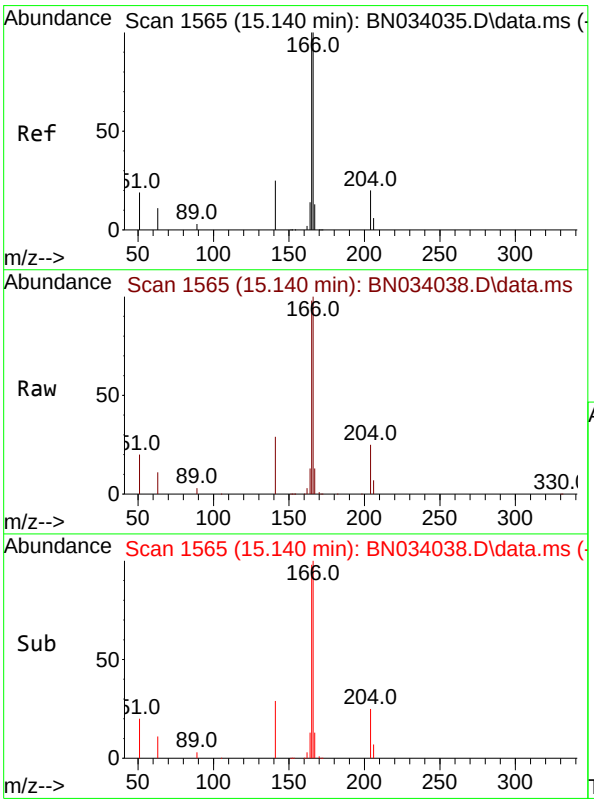
#17
Acenaphthene
Concen: 3.189 ng
RT: 14.146 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:154 Resp: 118987

Ion	Ratio	Lower	Upper
154	100		
153	113.5	91.6	137.4
152	57.2	47.4	71.2

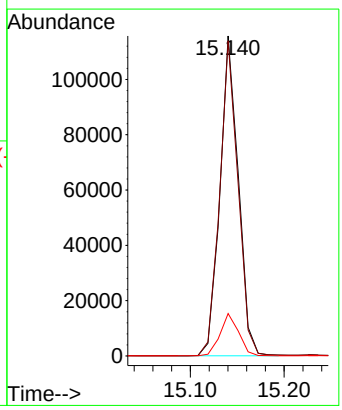


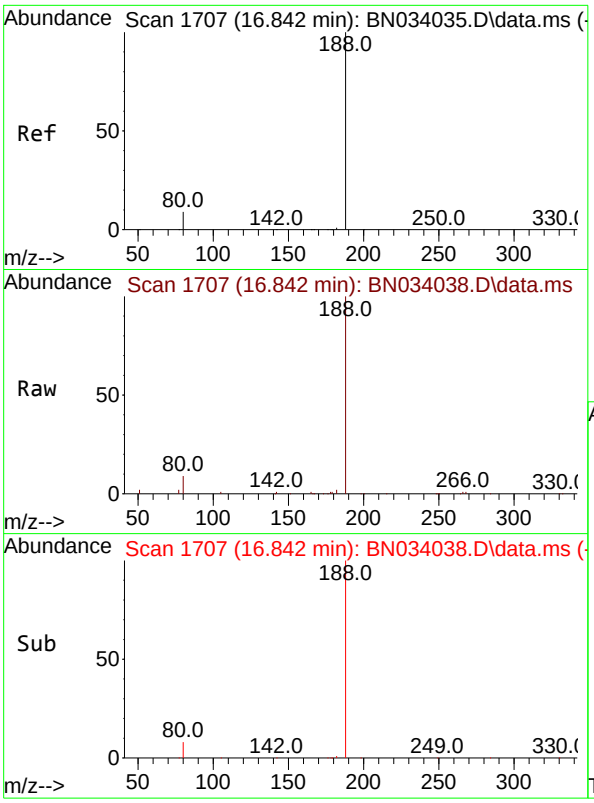


#18
Fluorene
Concen: 3.213 ng
RT: 15.140 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:166 Resp: 157300

Ion	Ratio	Lower	Upper
166	100		
165	98.0	79.1	118.7
167	13.3	10.6	15.8



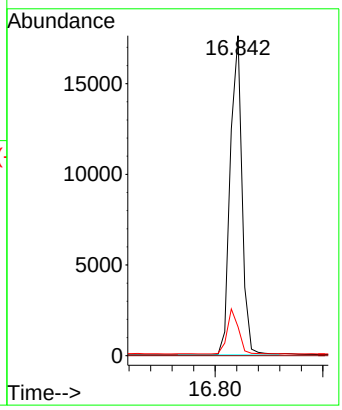


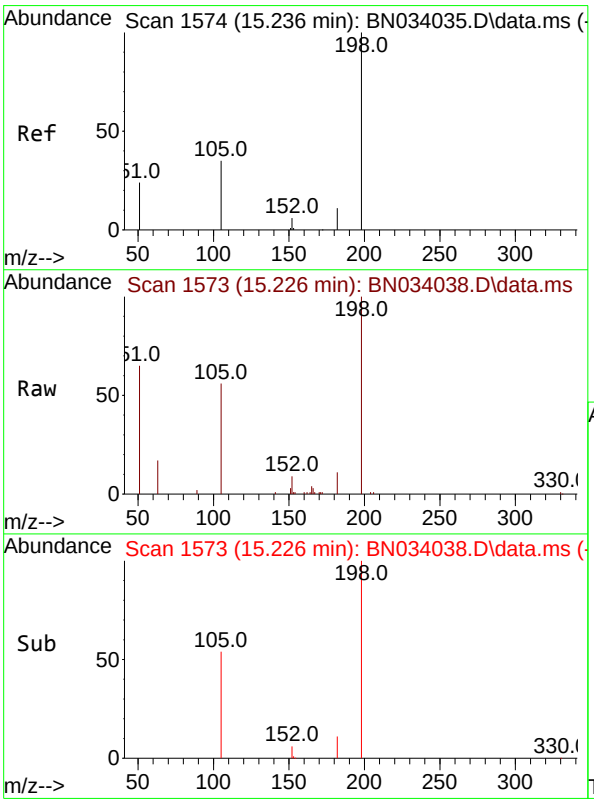
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.842 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:188 Resp: 26614

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	9.0	7.4	11.0

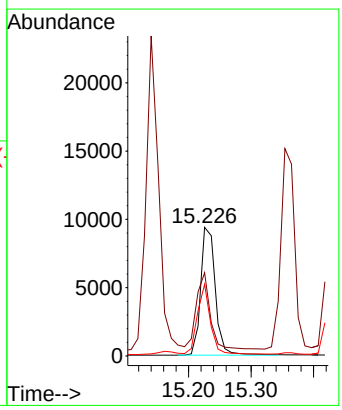


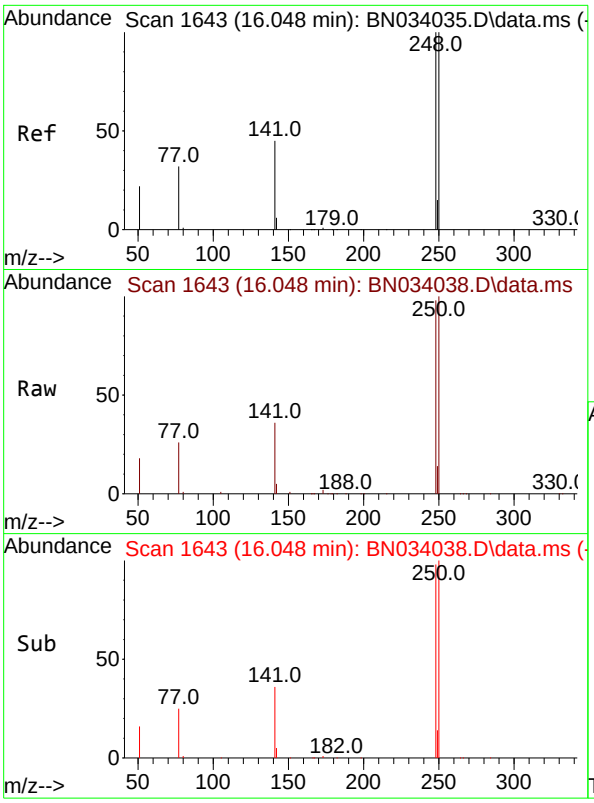


#20
4,6-Dinitro-2-methylphenol
Concen: 3.232 ng
RT: 15.226 min Scan# 1573
Delta R.T. -0.010 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:198 Resp: 15277

Ion	Ratio	Lower	Upper
198	100		
51	64.7	106.4	159.6#
105	55.8	38.5	57.7



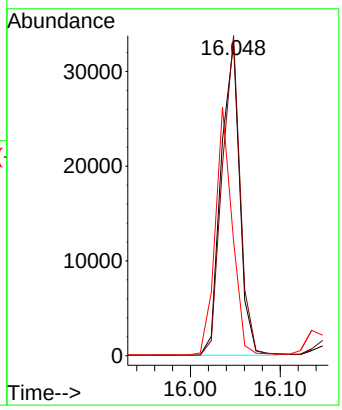


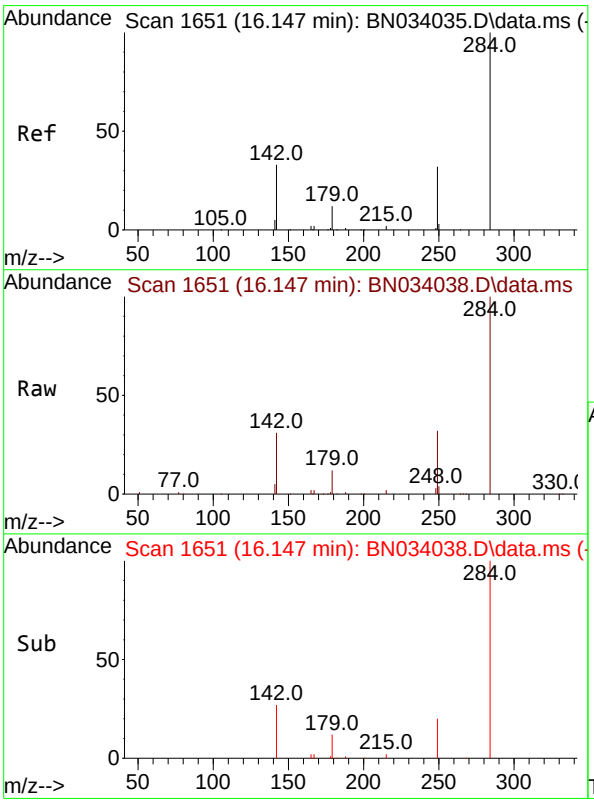
#21
4-Bromophenyl-phenylether
Concen: 3.201 ng
RT: 16.048 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:248 Resp: 47888

Ion	Ratio	Lower	Upper
248	100		
250	102.5	80.5	120.7
141	36.8	37.1	55.7#

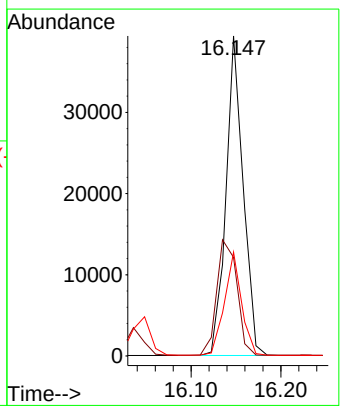


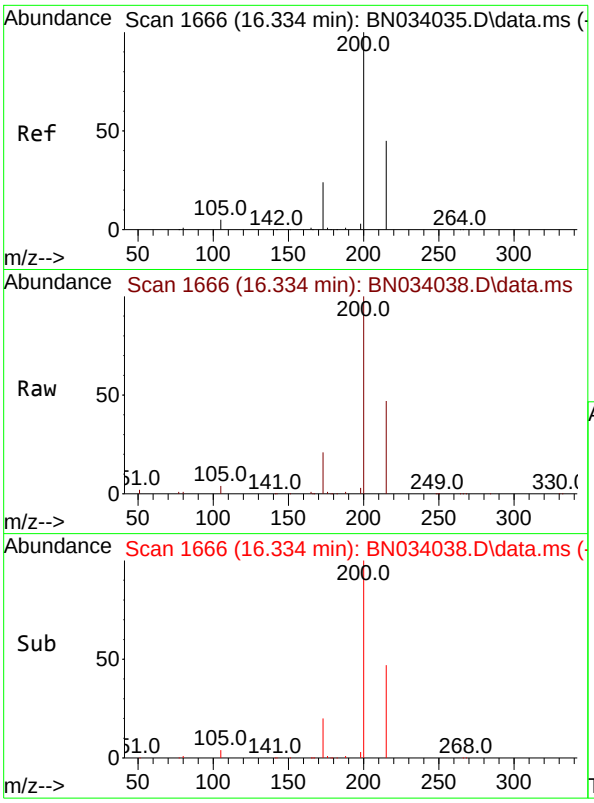


#22
Hexachlorobenzene
Concen: 3.120 ng
RT: 16.147 min Scan# 1651
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:284 Resp: 52341

Ion	Ratio	Lower	Upper
284	100		
142	42.8	34.5	51.7
249	32.0	25.8	38.6



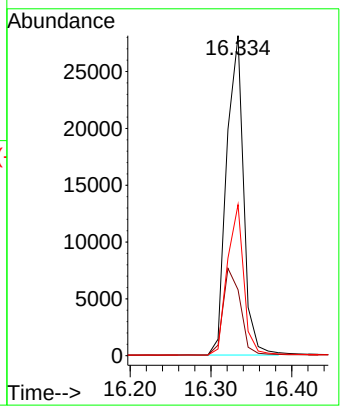


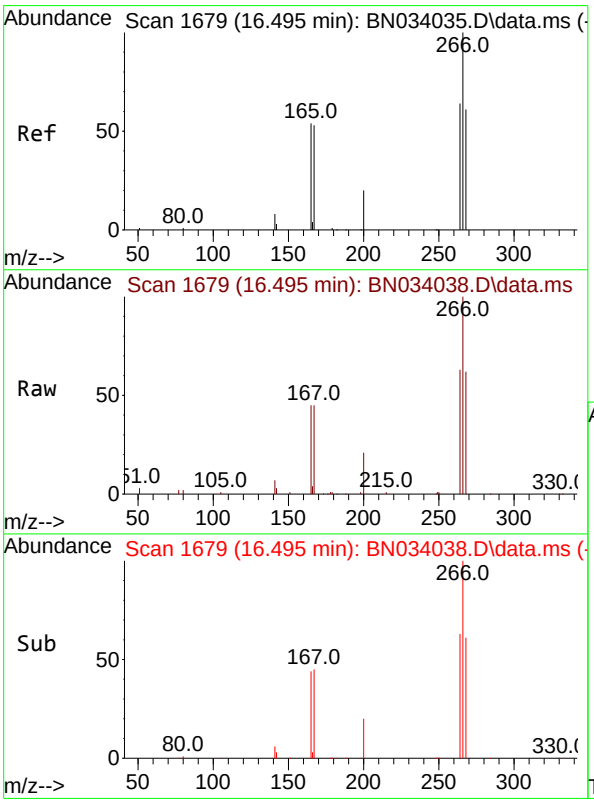
#23
Atrazine
Concen: 3.297 ng
RT: 16.334 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:200 Resp: 40875

Ion	Ratio	Lower	Upper
200	100		
173	20.6	20.1	30.1
215	47.2	37.0	55.6

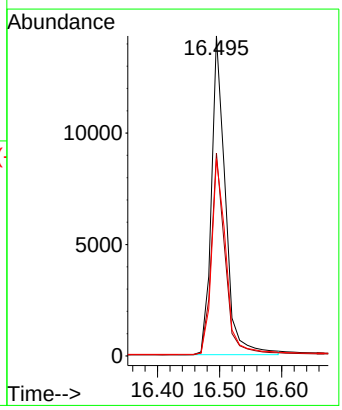


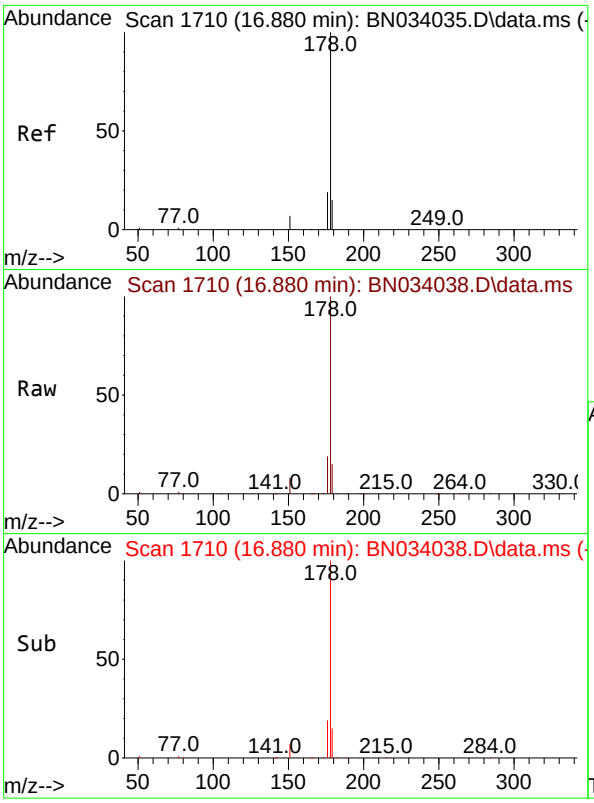


#24
Pentachlorophenol
Concen: 4.015 ng
RT: 16.495 min Scan# 1679
Delta R.T. -0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:266 Resp: 22273

Ion	Ratio	Lower	Upper
266	100		
264	62.9	50.2	75.2
268	63.2	51.0	76.4



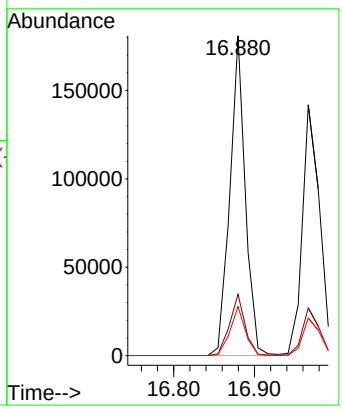


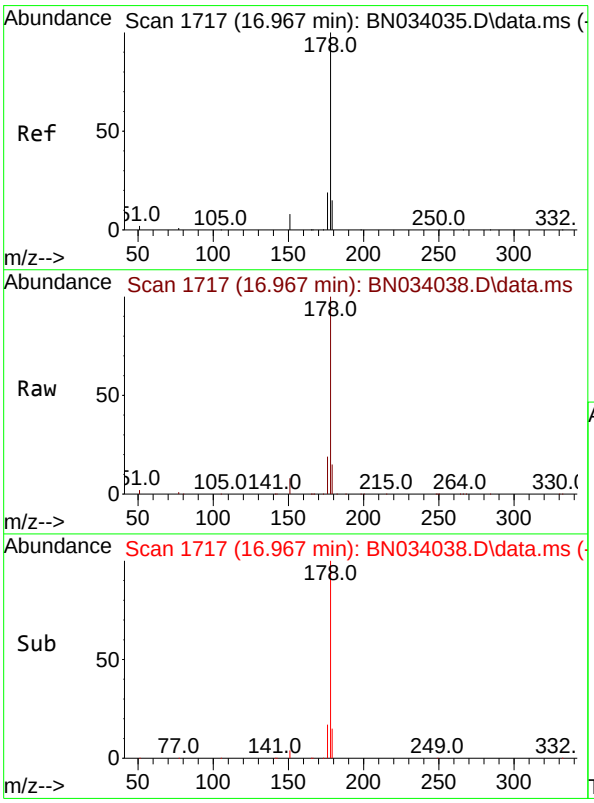
#25
Phenanthrene
Concen: 3.145 ng
RT: 16.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:178 Resp: 240379

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.2	12.1	18.1

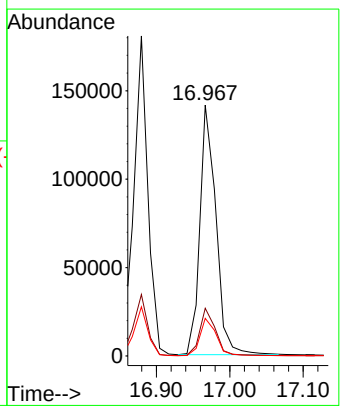


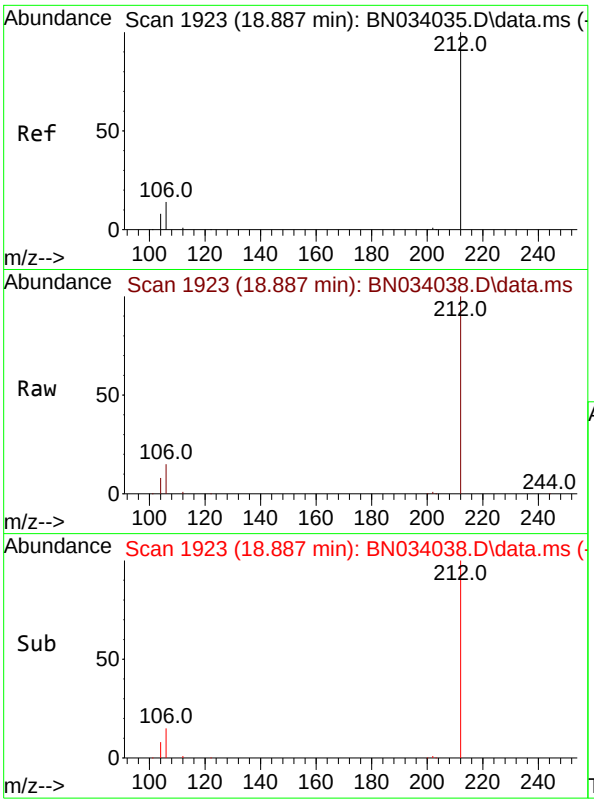


#26
Anthracene
Concen: 3.452 ng
RT: 16.967 min Scan# 1717
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:178 Resp: 215284

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.2	12.2	18.4



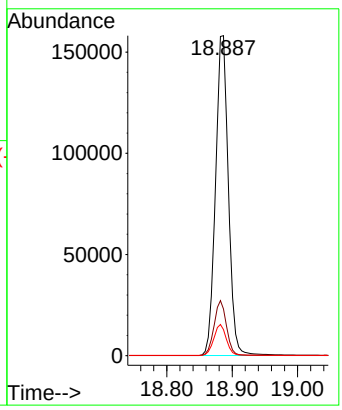


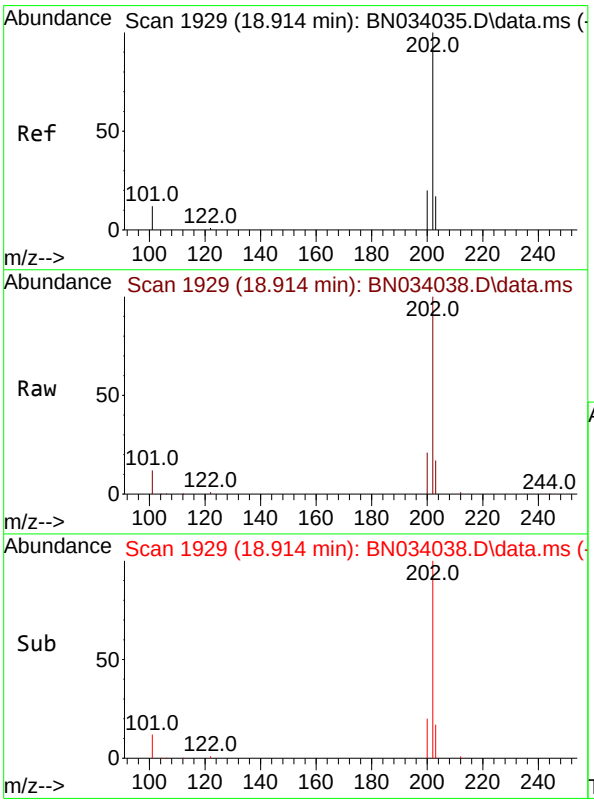
#27
Fluoranthene-d10
Concen: 3.213 ng
RT: 18.887 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:212 Resp: 215735

Ion	Ratio	Lower	Upper
212	100		
106	16.7	13.4	20.2
104	9.4	7.8	11.6

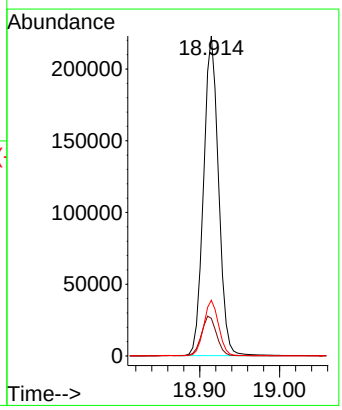


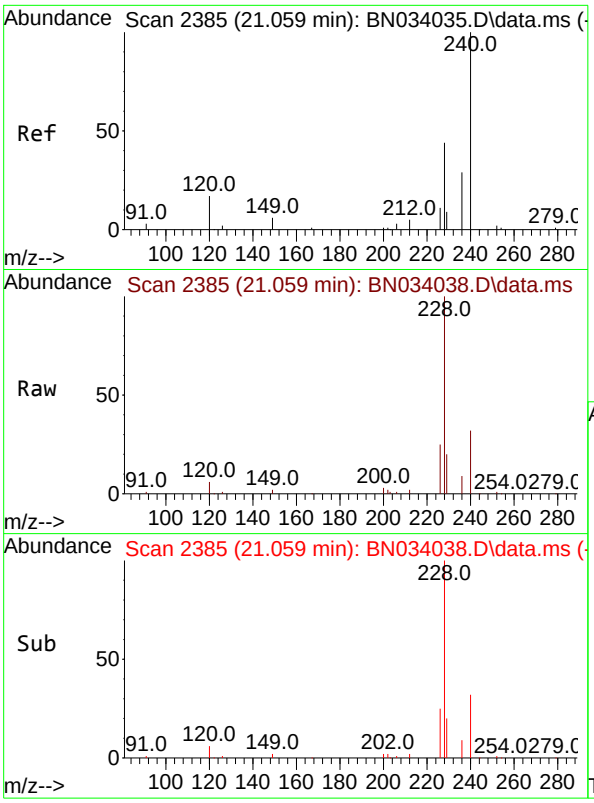


#28
Fluoranthene
Concen: 3.268 ng
RT: 18.914 min Scan# 1929
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:202 Resp: 289295

Ion	Ratio	Lower	Upper
202	100		
101	12.8	10.1	15.1
203	17.2	13.6	20.4



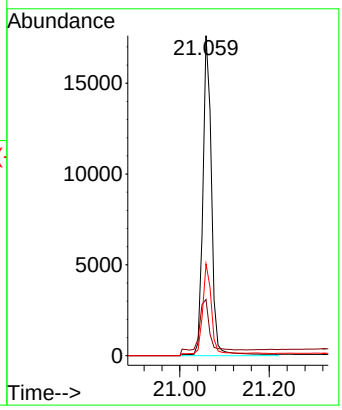


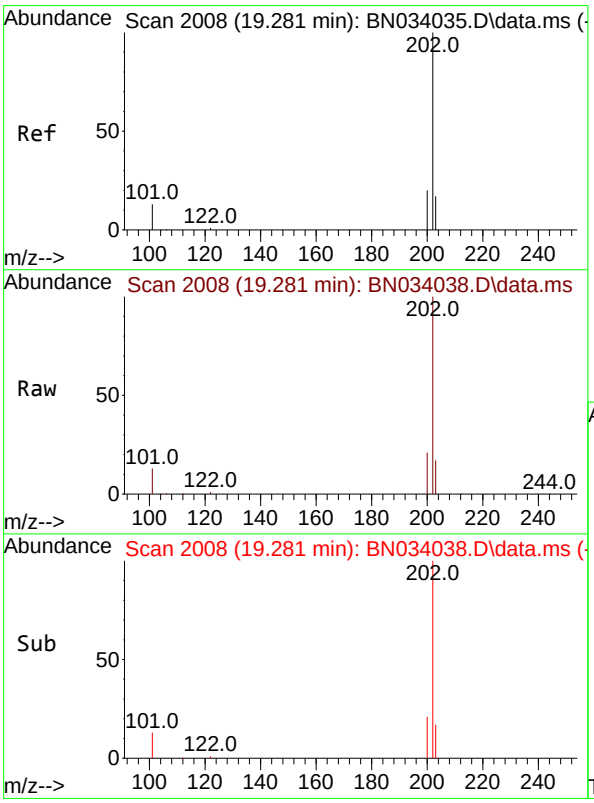
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.059 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:240 Resp: 22873

Ion	Ratio	Lower	Upper
240	100		
120	17.5	13.5	20.3
236	28.7	23.4	35.0

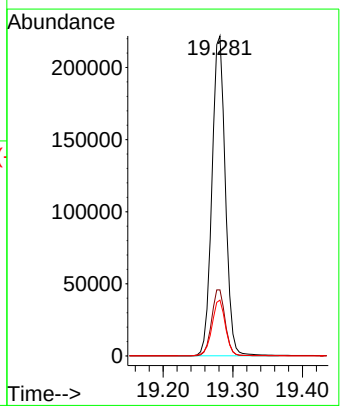


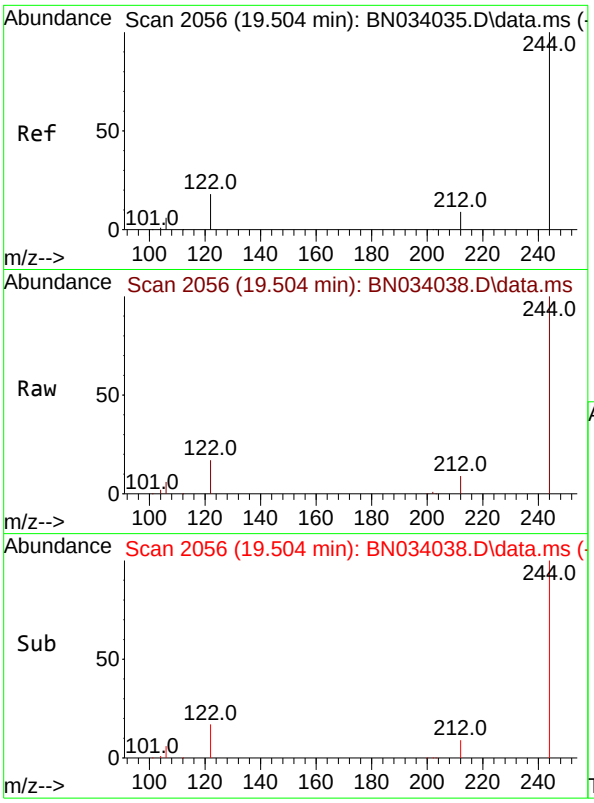


#30
Pyrene
Concen: 3.071 ng
RT: 19.281 min Scan# 2008
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:202 Resp: 296441

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	25.0
203	17.7	14.3	21.5



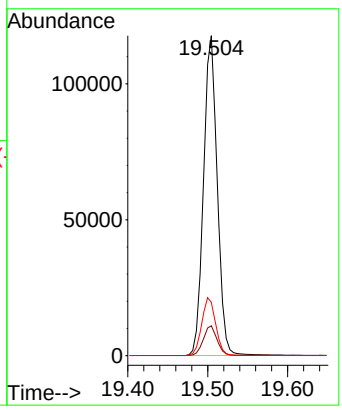


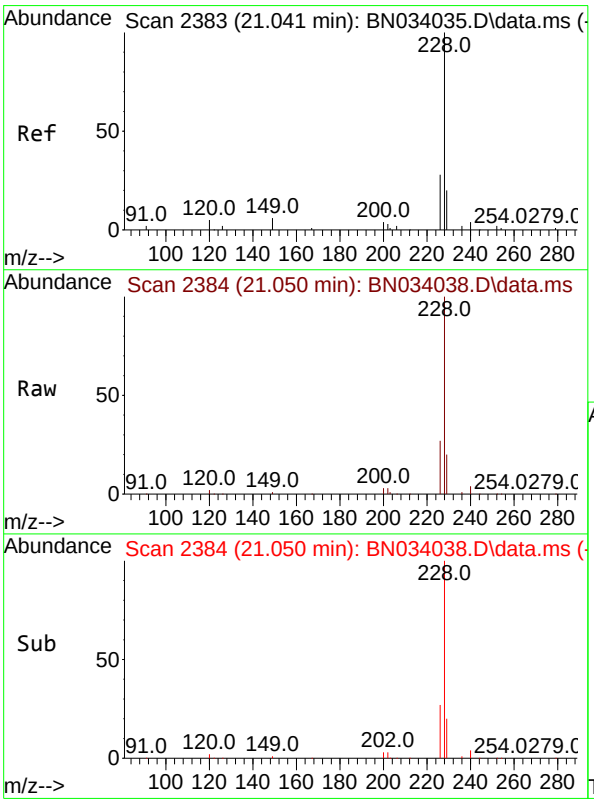
#31
Terphenyl-d14
Concen: 3.074 ng
RT: 19.504 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:244 Resp: 140407

Ion	Ratio	Lower	Upper
244	100		
212	9.3	7.8	11.6
122	16.7	14.8	22.2

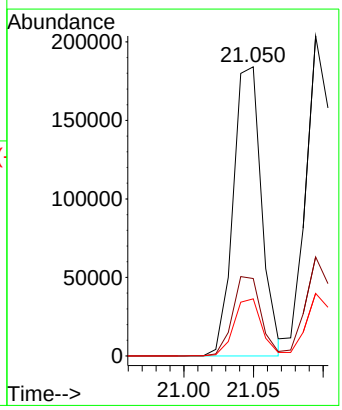


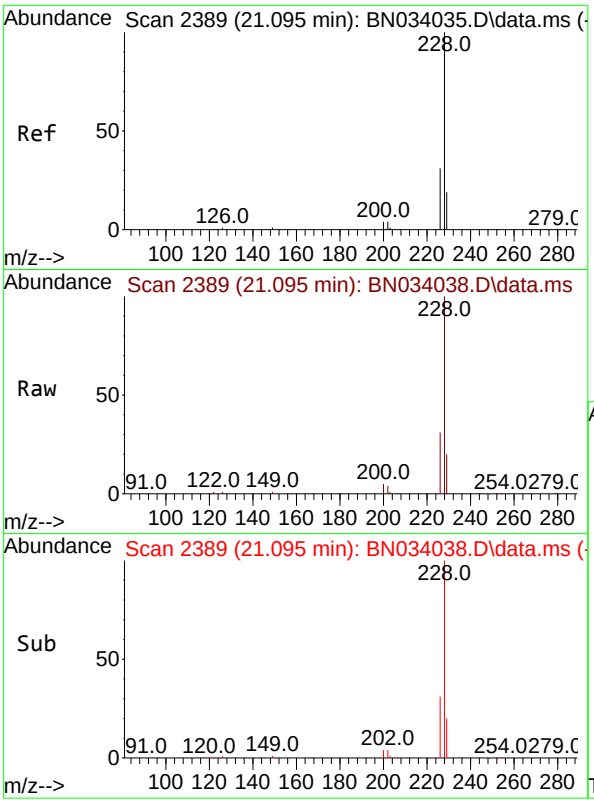


#32
Benzo(a)anthracene
Concen: 3.216 ng
RT: 21.050 min Scan# 2384
Delta R.T. 0.009 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:228 Resp: 232693

Ion	Ratio	Lower	Upper
228	100		
226	26.8	22.3	33.5
229	19.8	15.7	23.5



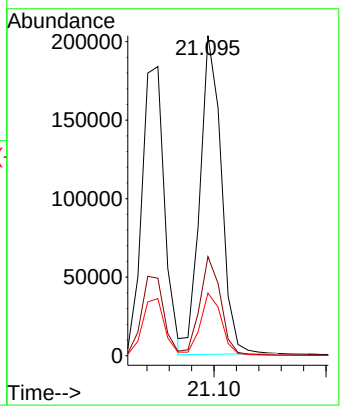


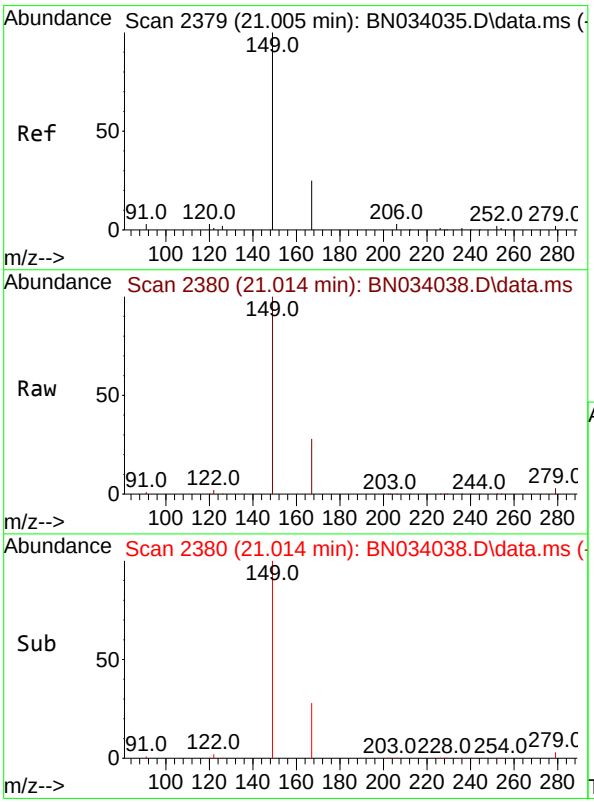
#33
Chrysene
Concen: 3.103 ng
RT: 21.095 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:228 Resp: 267873

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	19.5	15.5	23.3

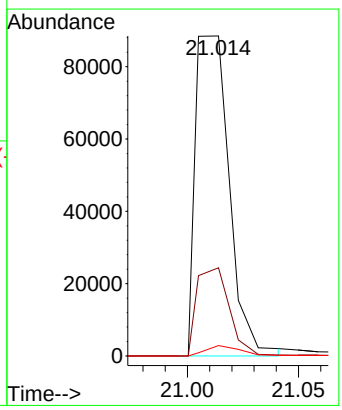


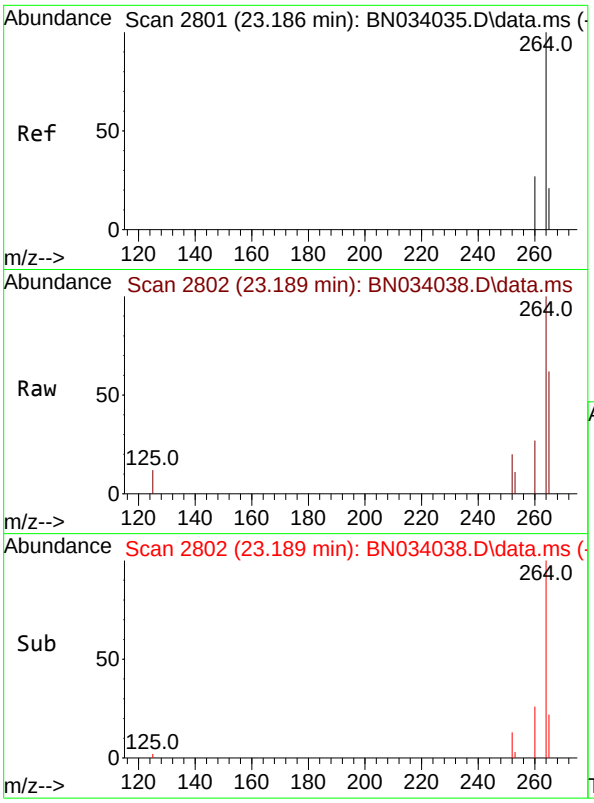


#34
Bis(2-ethylhexyl)phthalate
Concen: 2.943 ng
RT: 21.014 min Scan# 2380
Delta R.T. 0.009 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:149 Resp: 88712

Ion	Ratio	Lower	Upper
149	100		
167	26.3	19.9	29.9
279	3.1	4.6	6.8#



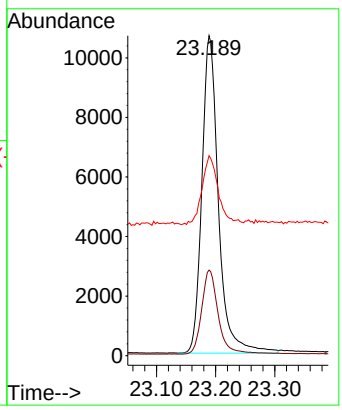


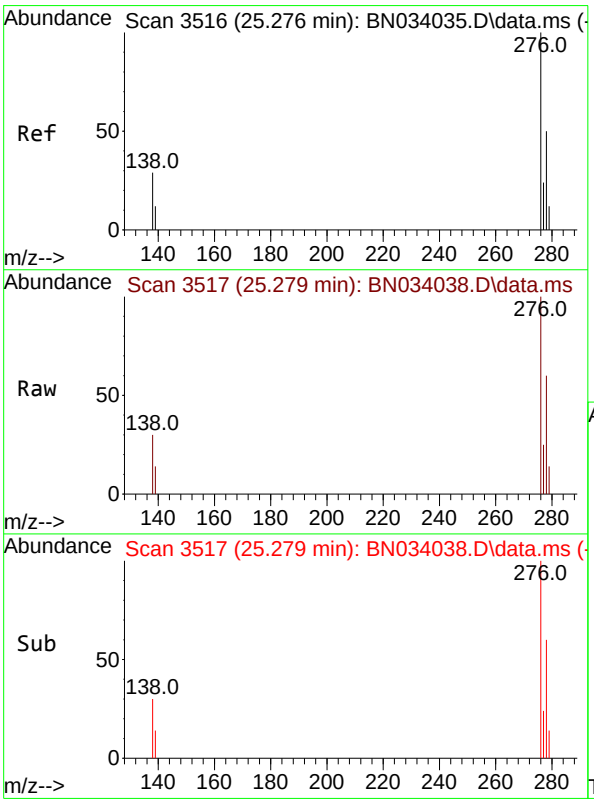
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.189 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:264 Resp: 20684

Ion	Ratio	Lower	Upper
264	100		
260	26.8	21.7	32.5
265	62.5	52.1	78.1

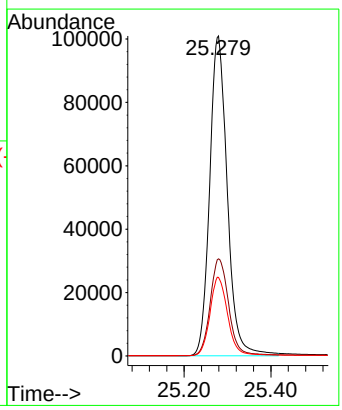


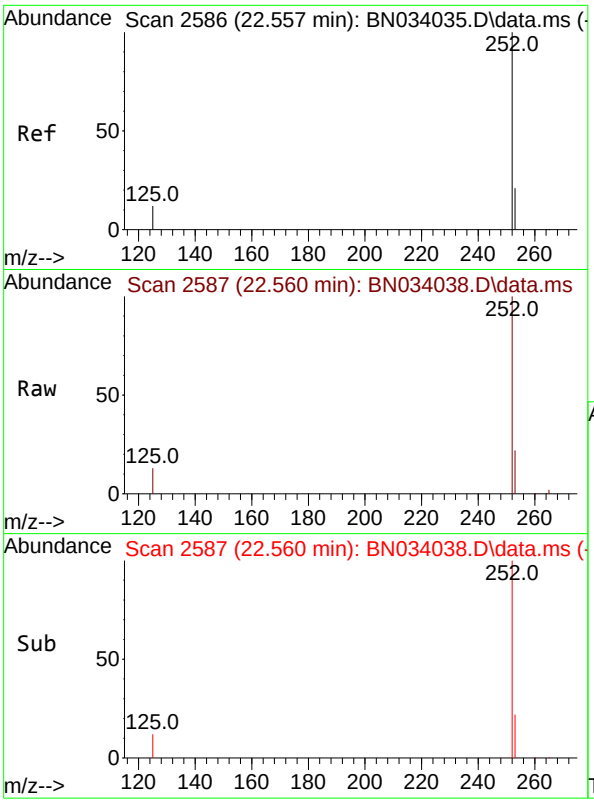


#36
Indeno(1,2,3-cd)pyrene
Concen: 3.206 ng
RT: 25.279 min Scan# 3517
Delta R.T. 0.003 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:276 Resp: 284132

Ion	Ratio	Lower	Upper
276	100		
138	31.8	25.9	38.9
277	24.8	19.7	29.5



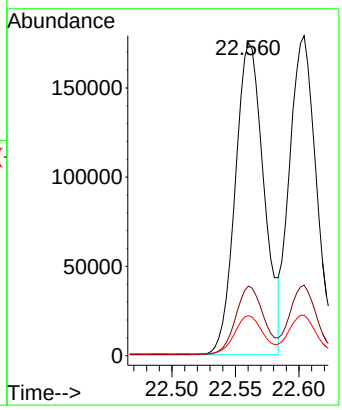


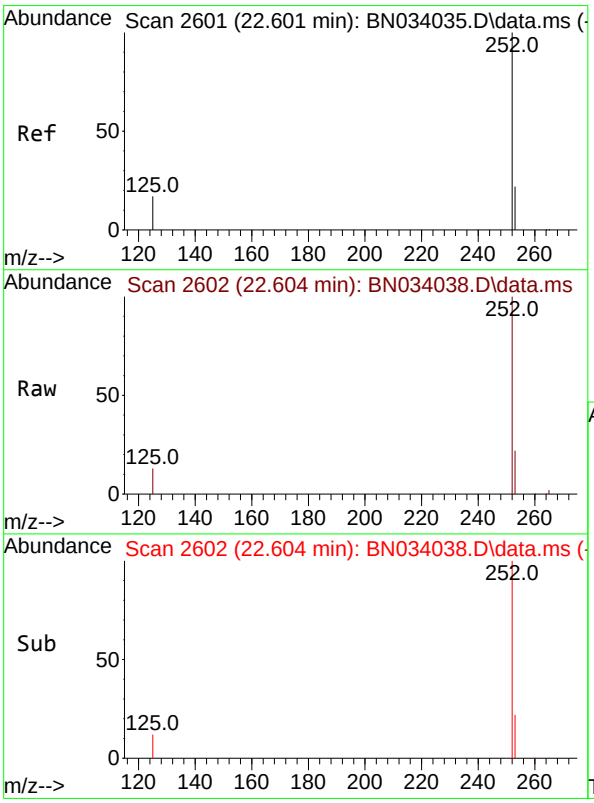
#37
Benzo(b)fluoranthene
Concen: 3.383 ng
RT: 22.560 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 274115

Ion	Ratio	Lower	Upper
252	100		
253	22.2	19.6	29.4
125	12.8	13.8	20.8#

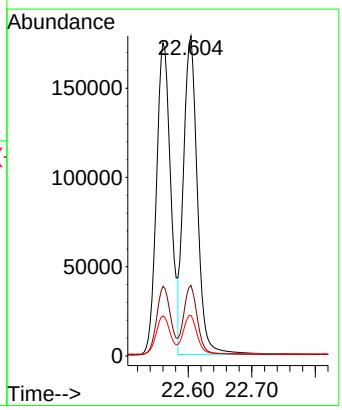


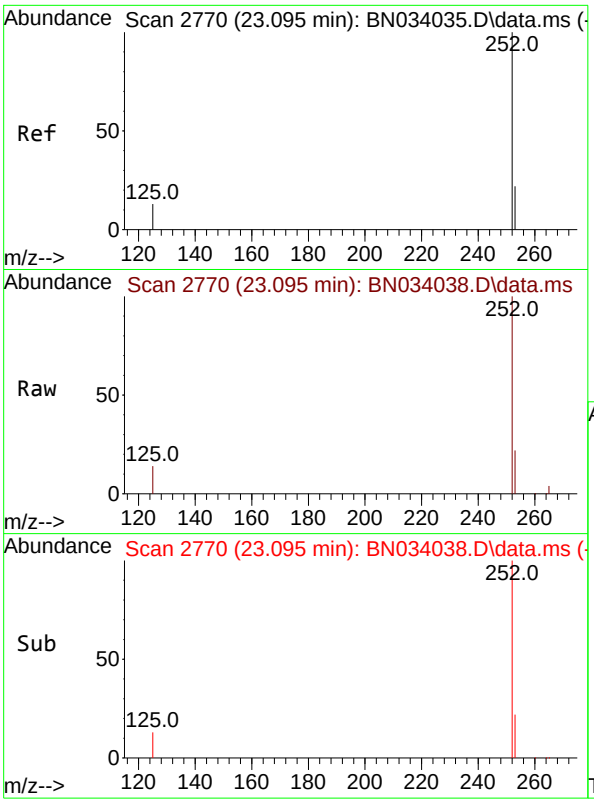


#38
Benzo(k)fluoranthene
Concen: 3.168 ng
RT: 22.604 min Scan# 2602
Delta R.T. 0.003 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:252 Resp: 269423

Ion	Ratio	Lower	Upper
252	100		
253	22.0	20.1	30.1
125	12.7	16.8	25.2#



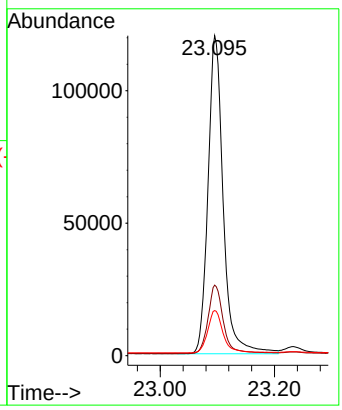


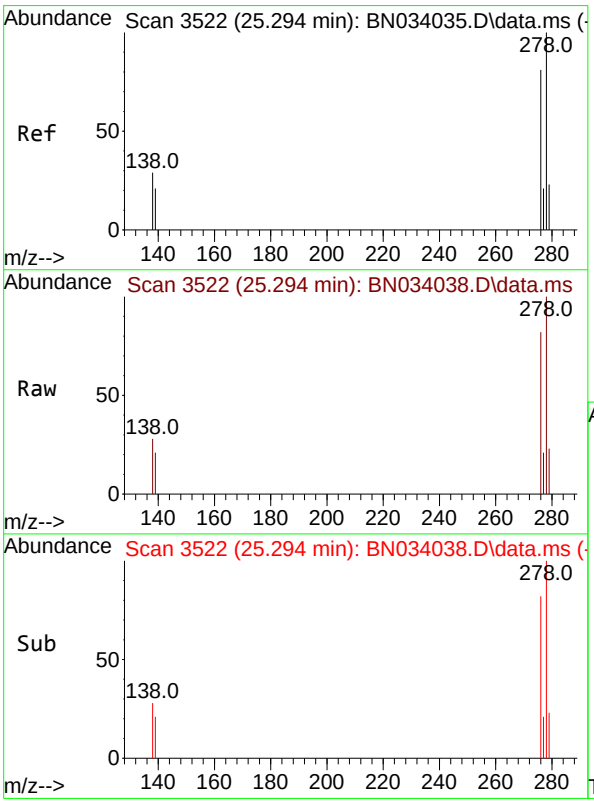
#39
Benzo(a)pyrene
Concen: 3.358 ng
RT: 23.095 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:252 Resp: 221768

Ion	Ratio	Lower	Upper
252	100		
253	22.0	21.8	32.8
125	14.1	17.5	26.3#

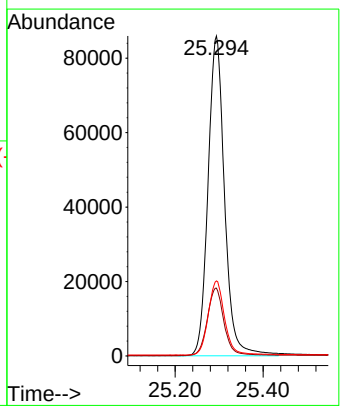


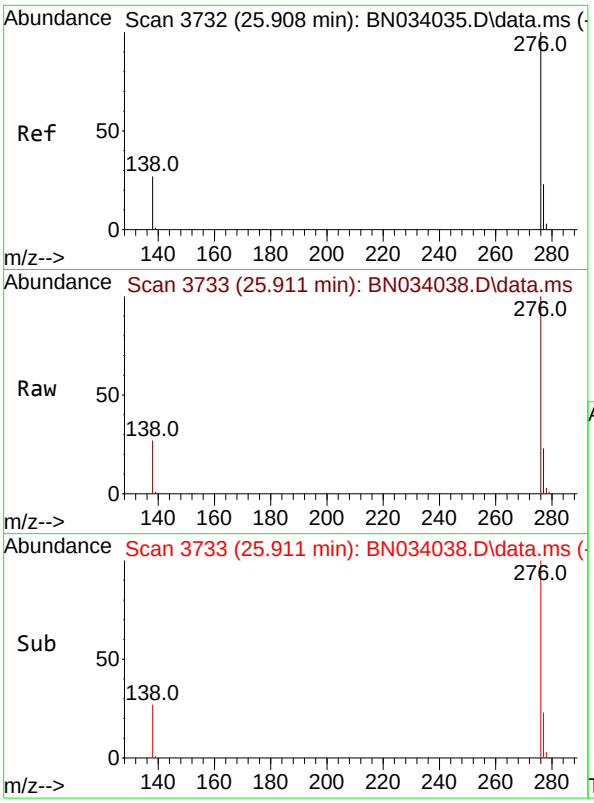


#40
Dibenzo(a,h)anthracene
Concen: 3.257 ng
RT: 25.294 min Scan# 3522
Delta R.T. 0.000 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Tgt Ion:278 Resp: 224248

Ion	Ratio	Lower	Upper
278	100		
139	21.2	17.8	26.8
279	23.4	21.0	31.6



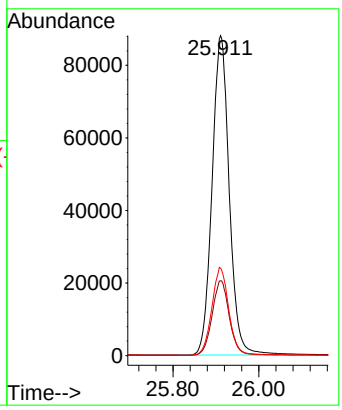


#41
Benzo(g,h,i)perylene
Concen: 3.160 ng
RT: 25.911 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN034038.D
Acq: 18 Sep 2024 14:54

Instrument :
BNA_N
ClientSampleId :
SSTDICC3.2

Tgt Ion:276 Resp: 244366

Ion	Ratio	Lower	Upper
276	100		
277	23.4	19.3	28.9
138	27.4	22.6	34.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034039.D
Acq On : 18 Sep 2024 15:30
Operator : JU/RC
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Sep 18 16:17:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.437	152	7777	0.400	ng		0.00
7) Naphthalene-d8	10.197	136	22212	0.400	ng		0.00
13) Acenaphthene-d10	14.082	164	13128	0.400	ng		0.00
19) Phenanthrene-d10	16.843	188	28109	0.400	ng		0.00
29) Chrysene-d12	21.059	240	24472	0.400	ng		0.00
35) Perylene-d12	23.189	264	21702	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.075	112	105855	4.796	ng		0.00
5) Phenol-d6	6.635	99	138167	5.382	ng		0.00
8) Nitrobenzene-d5	8.574	82	93192	5.485	ng		0.00
11) 2-Methylnaphthalene-d10	11.794	152	169448	5.166	ng		0.00
14) 2,4,6-Tribromophenol	15.589	330	36052	6.062	ng		0.00
15) 2-Fluorobiphenyl	12.692	172	261776	4.903	ng		-0.01
27) Fluoranthene-d10	18.882	212	376792	5.313	ng		0.00
31) Terphenyl-d14	19.505	244	241874	4.949	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.074	88	43217	4.445	ng		94
3) n-Nitrosodimethylamine	3.371	42	53717	4.854	ng	#	97
6) bis(2-Chloroethyl)ether	6.881	93	112939	4.972	ng		98
9) Naphthalene	10.240	128	301970	4.954	ng		99
10) Hexachlorobutadiene	10.539	225	54229	4.722	ng	#	99
12) 2-Methylnaphthalene	11.869	142	204358	5.151	ng		98
16) Acenaphthylene	13.793	152	314757	5.601	ng		100
17) Acenaphthene	14.146	154	203453	5.048	ng		98
18) Fluorene	15.140	166	265939	5.028	ng		99
21) 4-Bromophenyl-phenylether	16.048	248	82958	5.250	ng	#	92
22) Hexachlorobenzene	16.147	284	89079	5.028	ng		99
23) Atrazine	16.334	200	71154	5.434	ng		97
25) Phenanthrene	16.880	178	412524	5.111	ng		100
26) Anthracene	16.967	178	376171	5.711	ng		100
28) Fluoranthene	18.915	202	493549	5.278	ng		99
30) Pyrene	19.282	202	510885	4.946	ng		100
32) Benzo(a)anthracene	21.041	228	412990	5.334	ng		99
33) Chrysene	21.095	228	461460	4.996	ng		100
34) Bis(2-ethylhexyl)phtha...	21.005	149	167044	5.180	ng	#	96
36) Indeno(1,2,3-cd)pyrene	25.273	276	473110	5.088	ng		99
37) Benzo(b)fluoranthene	22.560	252	460182	5.413	ng	#	92
38) Benzo(k)fluoranthene	22.601	252	461573	5.172	ng	#	88
39) Benzo(a)pyrene	23.095	252	382292	5.517	ng	#	87
40) Dibenzo(a,h)anthracene	25.291	278	371244	5.139	ng		96
41) Benzo(g,h,i)perylene	25.908	276	404439	4.985	ng		98

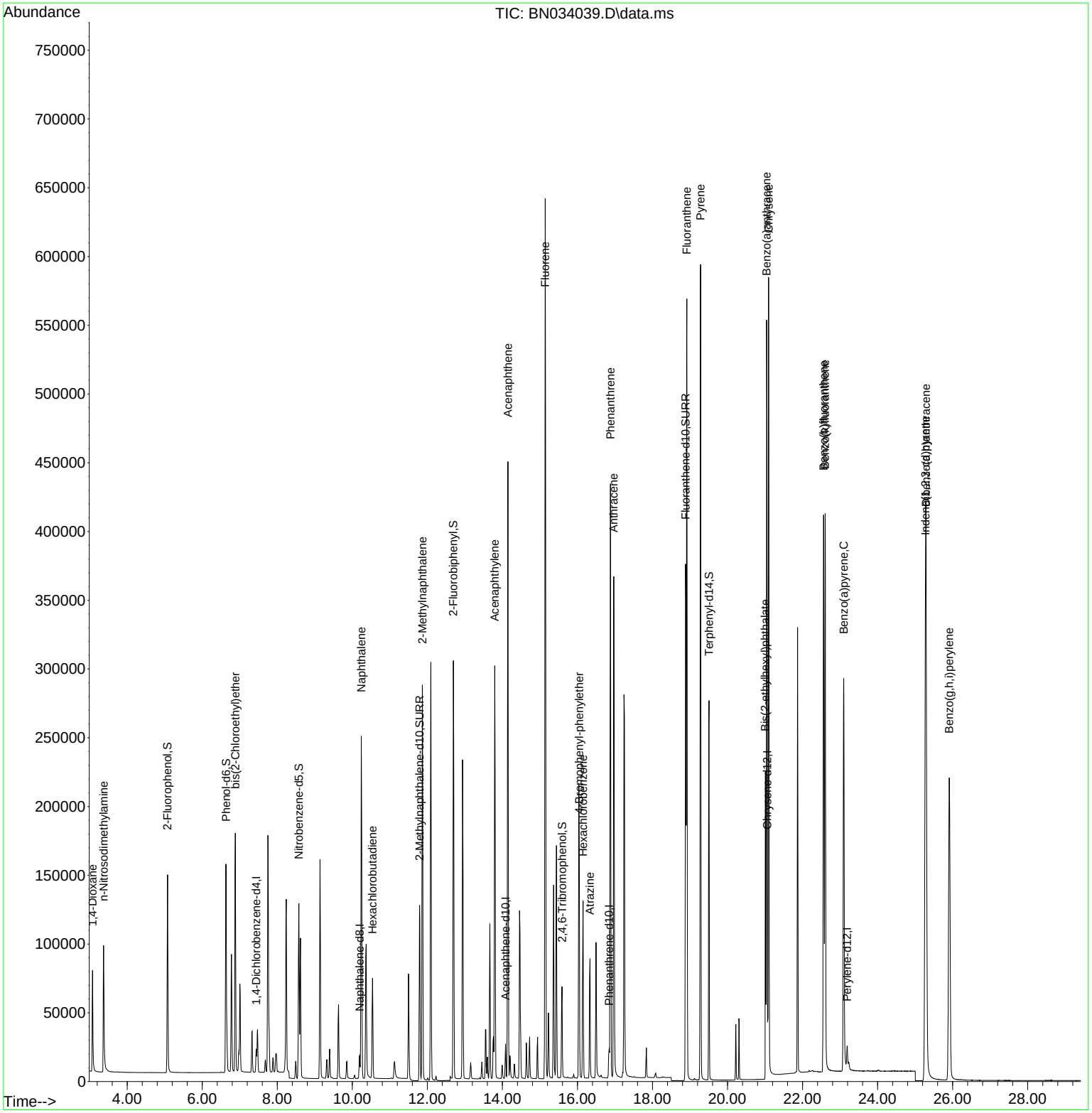
(#) = qualifier out of range (m) = manual integration (+) = signals summed

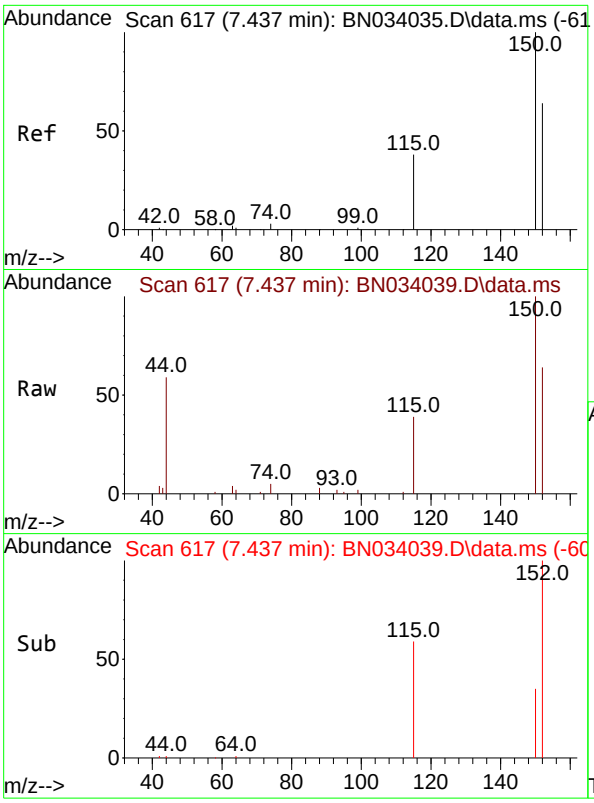
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034039.D
Acq On : 18 Sep 2024 15:30
Operator : JU/RC
Sample : SSTDICC5.0
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Quant Time: Sep 18 16:17:35 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



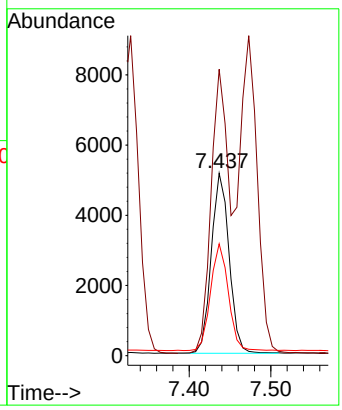


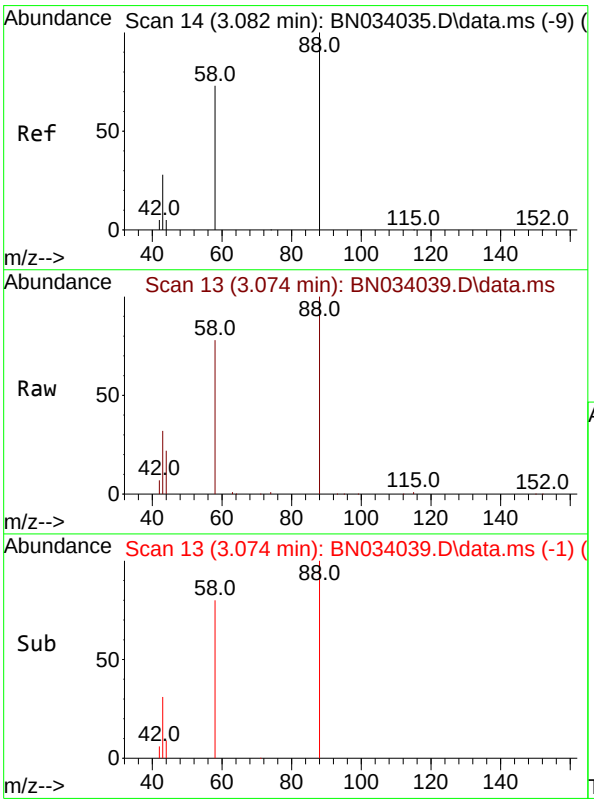
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.437 min Scan# 61
Delta R.T. -0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 7777

Ion	Ratio	Lower	Upper
152	100		
150	157.0	124.6	187.0
115	61.3	50.0	75.0

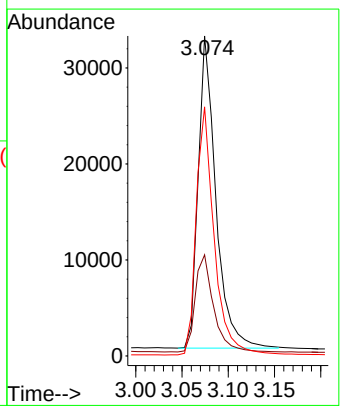


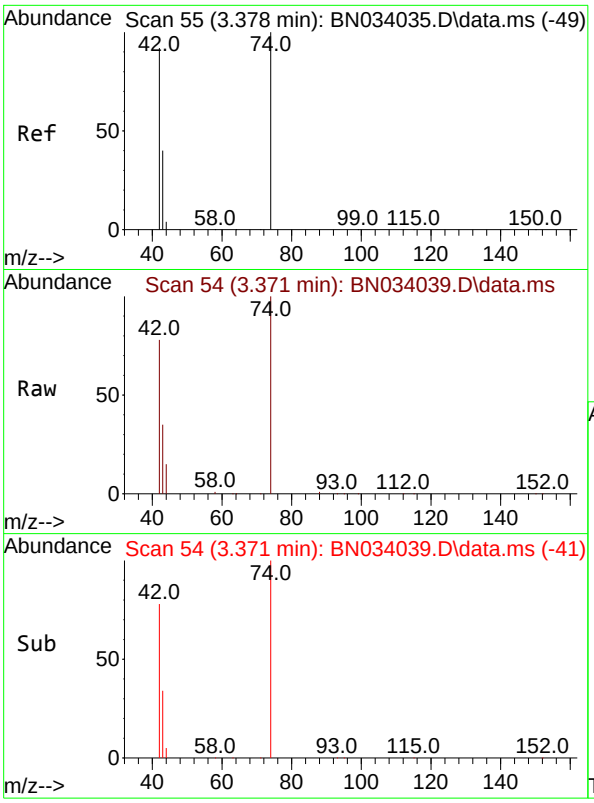


#2
1,4-Dioxane
Concen: 4.445 ng
RT: 3.074 min Scan# 13
Delta R.T. -0.007 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion: 88 Resp: 43217

Ion	Ratio	Lower	Upper
88	100		
43	32.2	25.8	38.8
58	80.9	58.8	88.2



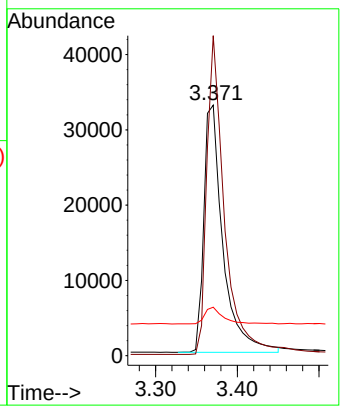


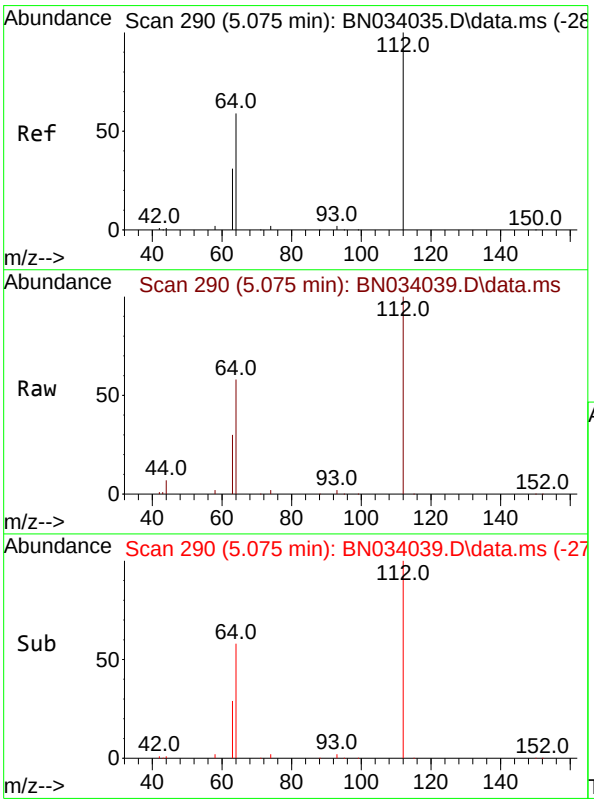
#3
n-Nitrosodimethylamine
Concen: 4.854 ng
RT: 3.371 min Scan# 54
Delta R.T. -0.007 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 42 Resp: 53717

Ion	Ratio	Lower	Upper
42	100		
74	118.8	94.6	142.0
44	6.7	12.4	18.6#

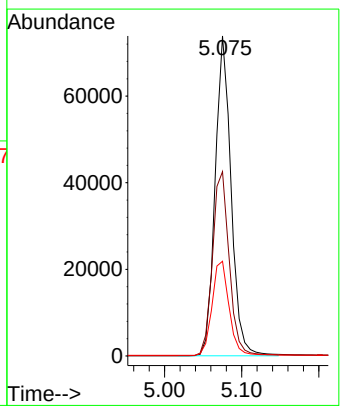


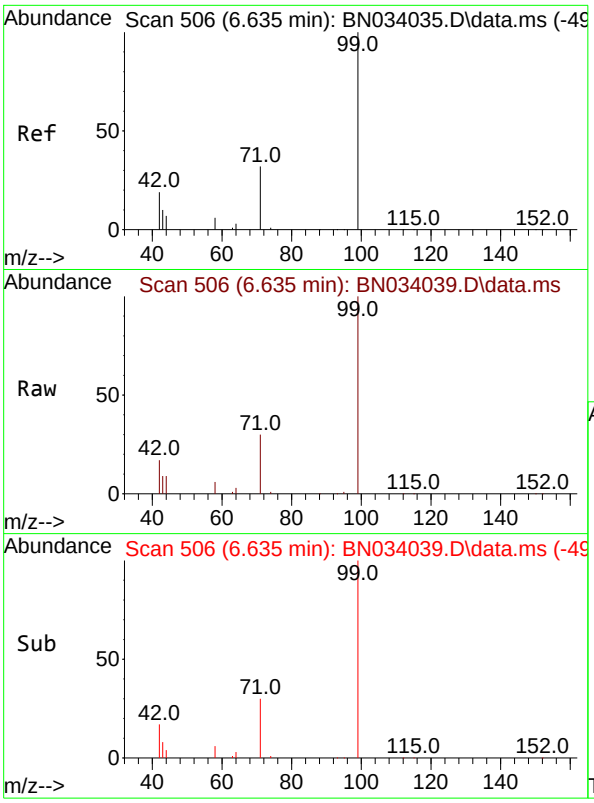


#4
2-Fluorophenol
Concen: 4.796 ng
RT: 5.075 min Scan# 290
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:112 Resp: 105855

Ion	Ratio	Lower	Upper
112	100		
64	60.3	48.6	72.8
63	31.3	25.6	38.4



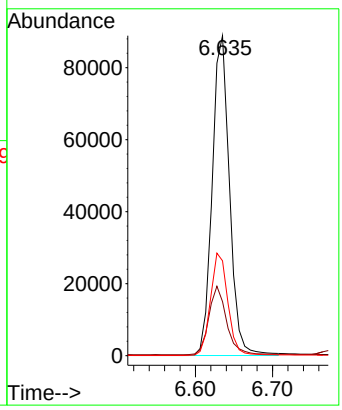


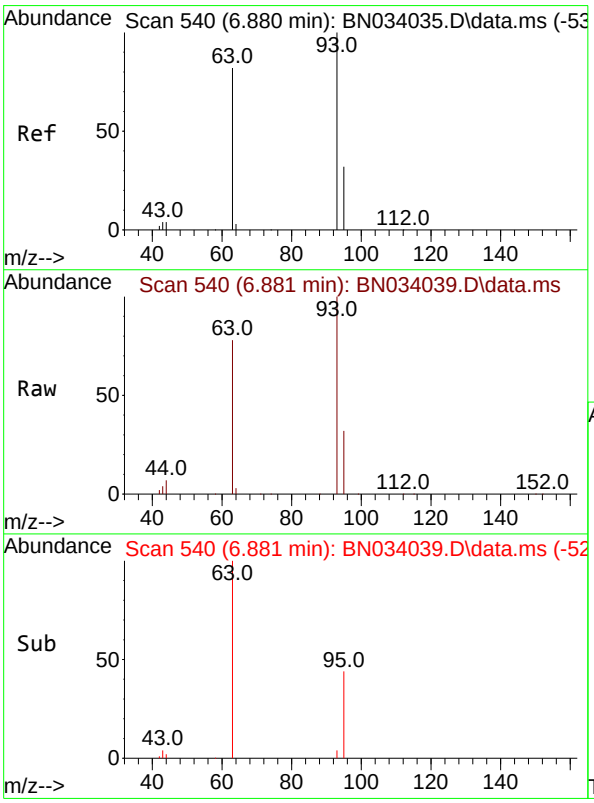
#5
Phenol-d6
Concen: 5.382 ng
RT: 6.635 min Scan# 5
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion: 99 Resp: 138167

Ion	Ratio	Lower	Upper
99	100		
42	21.9	17.8	26.8
71	32.2	26.2	39.2

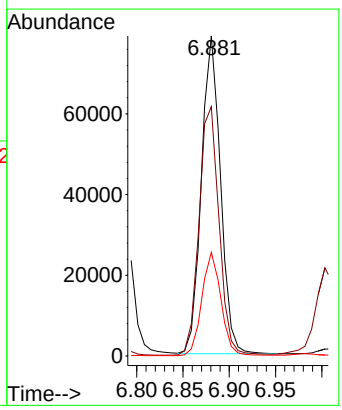


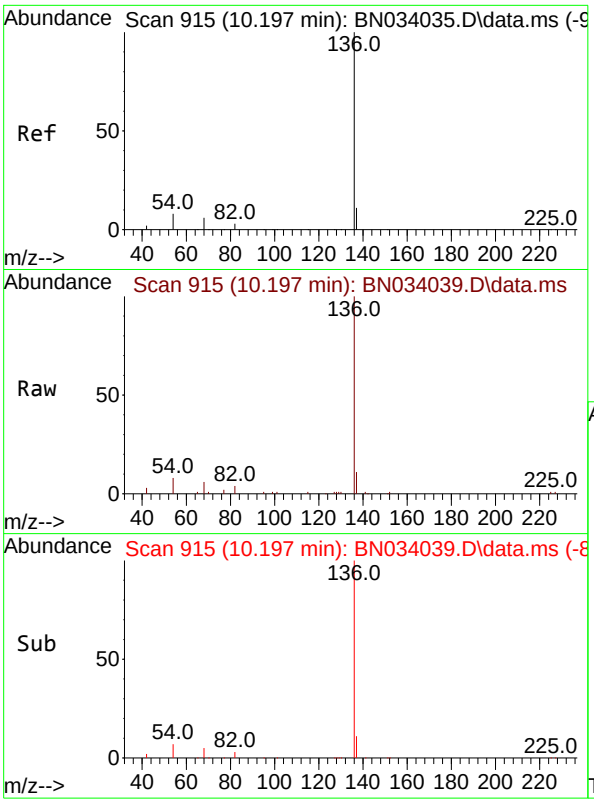


#6
bis(2-Chloroethyl)ether
Concen: 4.972 ng
RT: 6.881 min Scan# 540
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion: 93 Resp: 112939

Ion	Ratio	Lower	Upper
93	100		
63	82.0	67.3	100.9
95	32.5	26.8	40.2



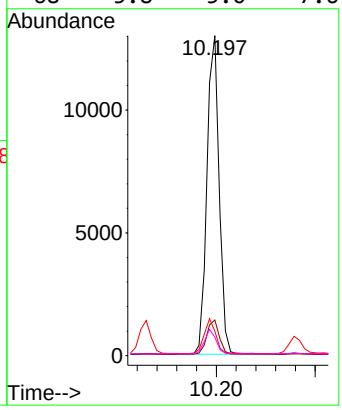


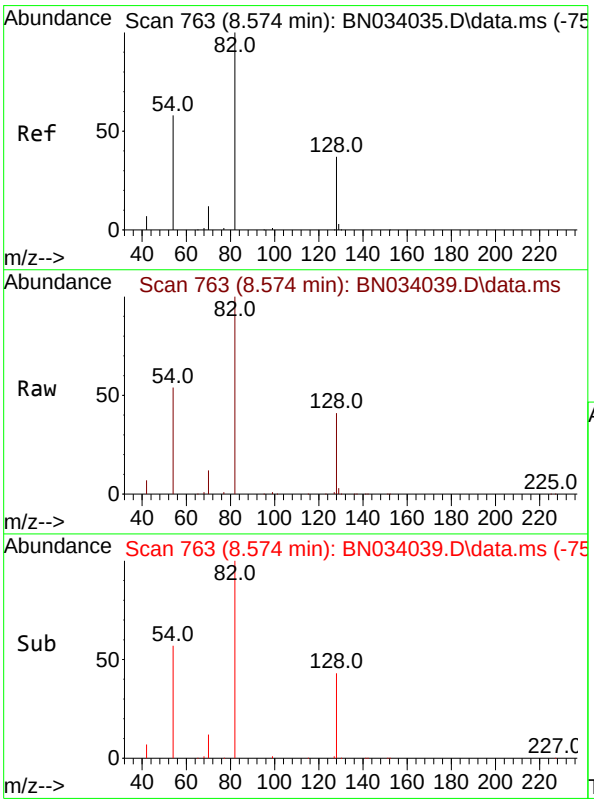
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.197 min Scan# 91
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:136 Resp: 22212

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	7.7	6.8	10.2
68	5.8	5.0	7.6

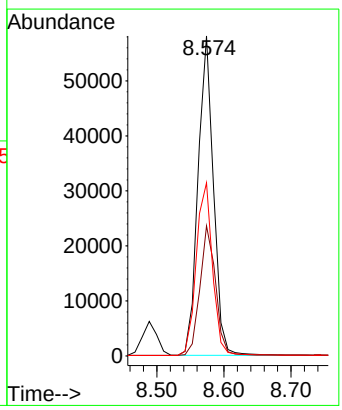


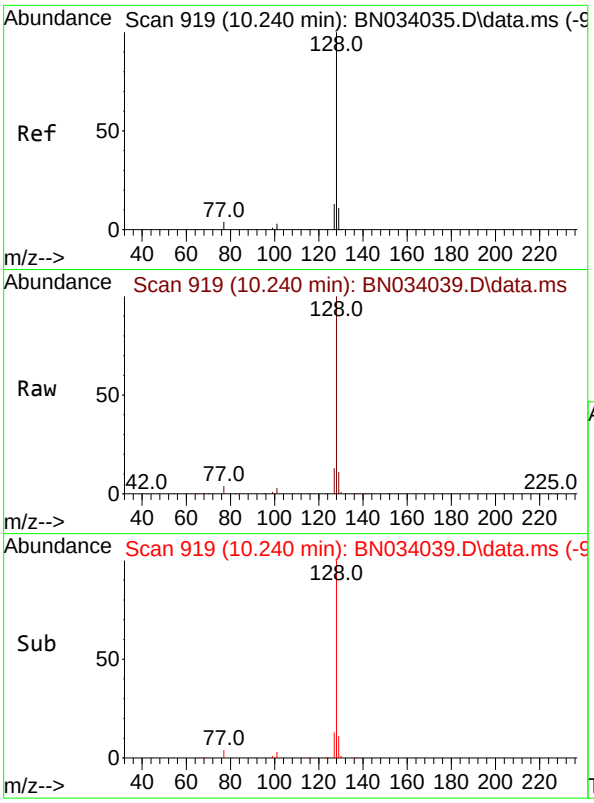


#8
Nitrobenzene-d5
Concen: 5.485 ng
RT: 8.574 min Scan# 763
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion: 82 Resp: 93192

Ion	Ratio	Lower	Upper
82	100		
128	40.7	31.4	47.2
54	54.1	47.4	71.0



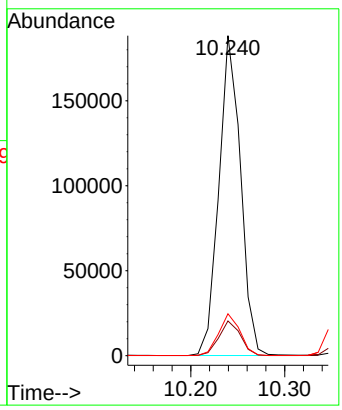


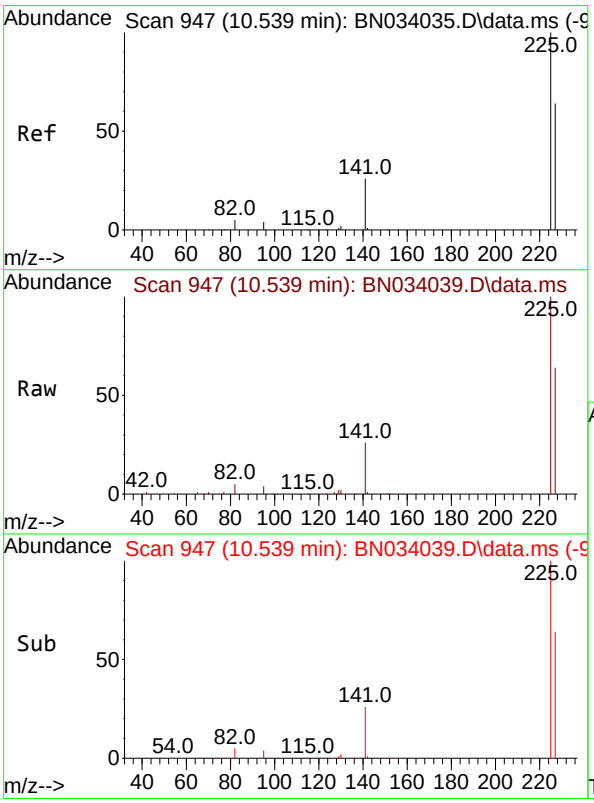
#9
Naphthalene
Concen: 4.954 ng
RT: 10.240 min Scan# 9
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:128 Resp: 301970

Ion	Ratio	Lower	Upper
128	100		
129	10.8	9.2	13.8
127	13.1	10.7	16.1

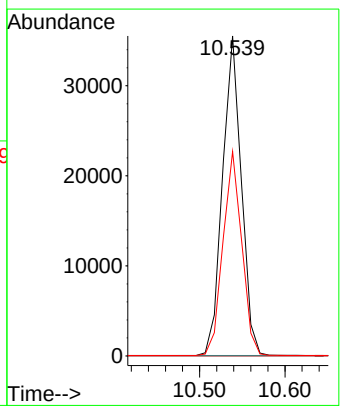


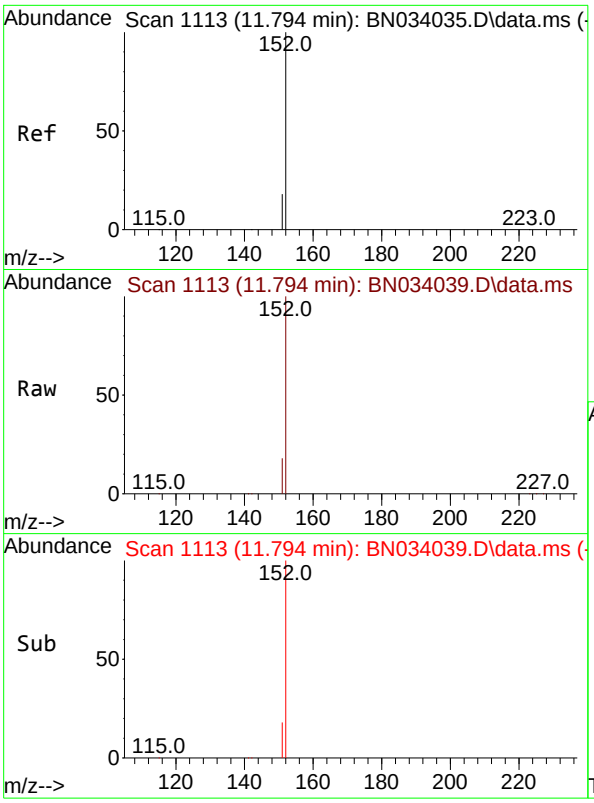


#10
Hexachlorobutadiene
Concen: 4.722 ng
RT: 10.539 min Scan# 947
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:225 Resp: 54229

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	50.5	75.7



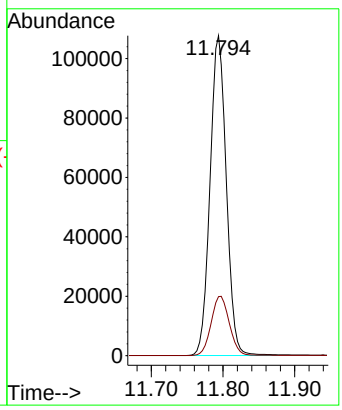


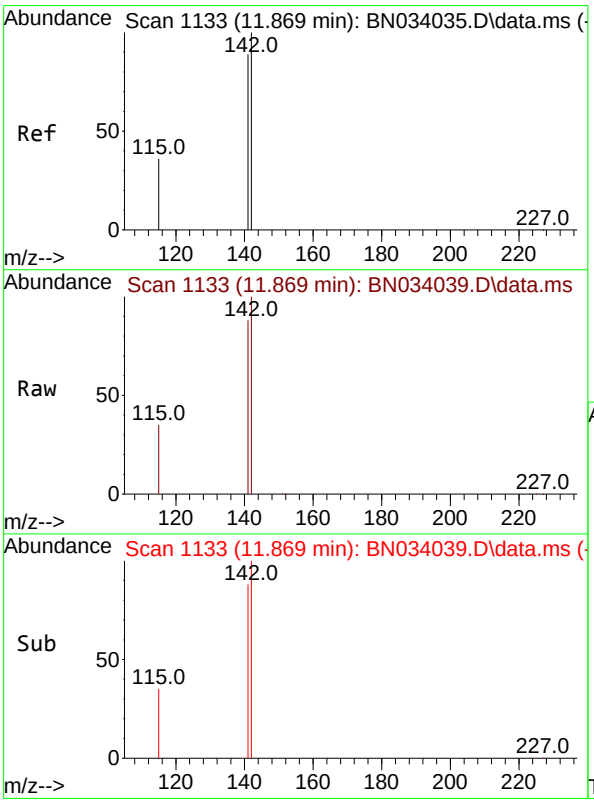
#11
2-Methylnaphthalene-d10
Concen: 5.166 ng
RT: 11.794 min Scan# 11
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:152 Resp: 169448

Ion	Ratio	Lower	Upper
152	100		
151	20.7	16.8	25.2

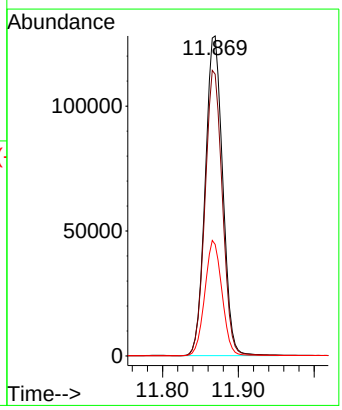


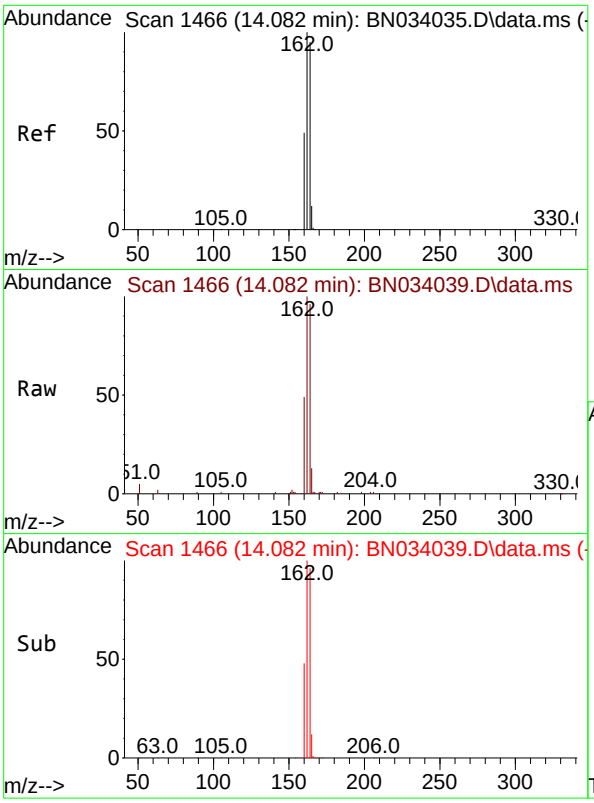


#12
2-Methylnaphthalene
Concen: 5.151 ng
RT: 11.869 min Scan# 1133
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:142 Resp: 204358

Ion	Ratio	Lower	Upper
142	100		
141	88.1	71.6	107.4
115	34.9	30.0	45.0



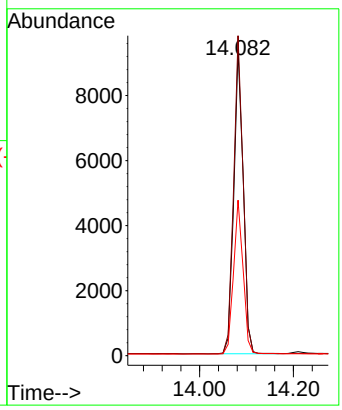


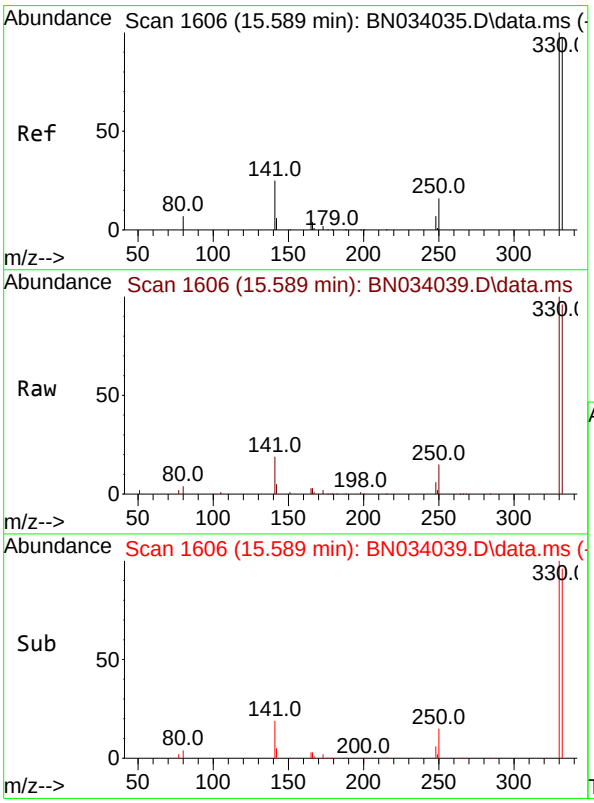
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.082 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:164 Resp: 13128

Ion	Ratio	Lower	Upper
164	100		
162	104.6	84.2	126.2
160	50.9	41.7	62.5

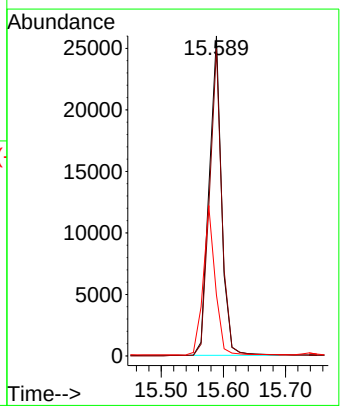


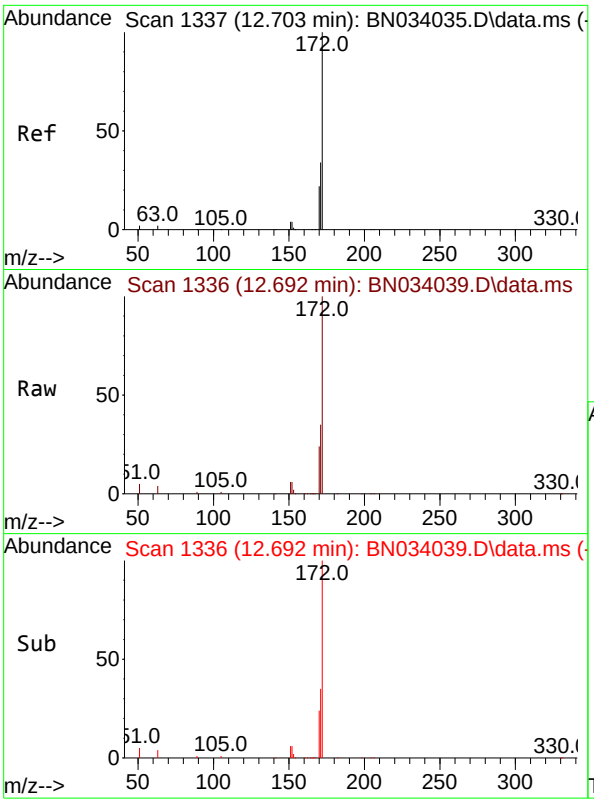


#14
2,4,6-Tribromophenol
Concen: 6.062 ng
RT: 15.589 min Scan# 1606
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:330 Resp: 36052

Ion	Ratio	Lower	Upper
330	100		
332	95.3	77.4	116.0
141	45.4	35.9	53.9



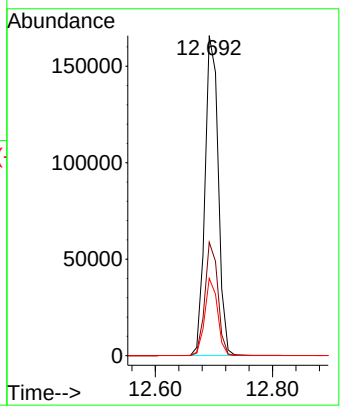


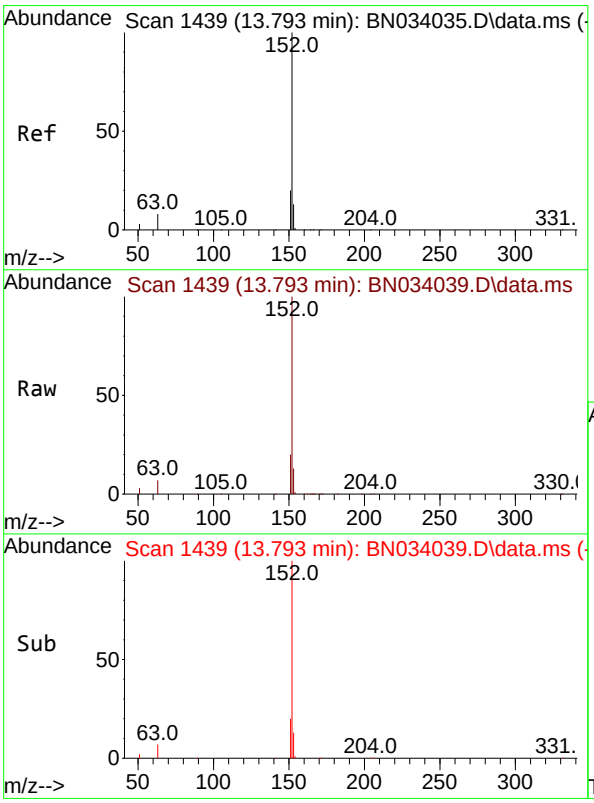
#15
2-Fluorobiphenyl
Concen: 4.903 ng
RT: 12.692 min Scan# 1
Delta R.T. -0.011 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:172 Resp: 261776

Ion	Ratio	Lower	Upper
172	100		
171	35.5	27.3	40.9
170	24.2	18.1	27.1

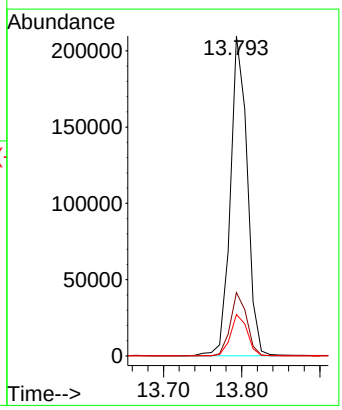


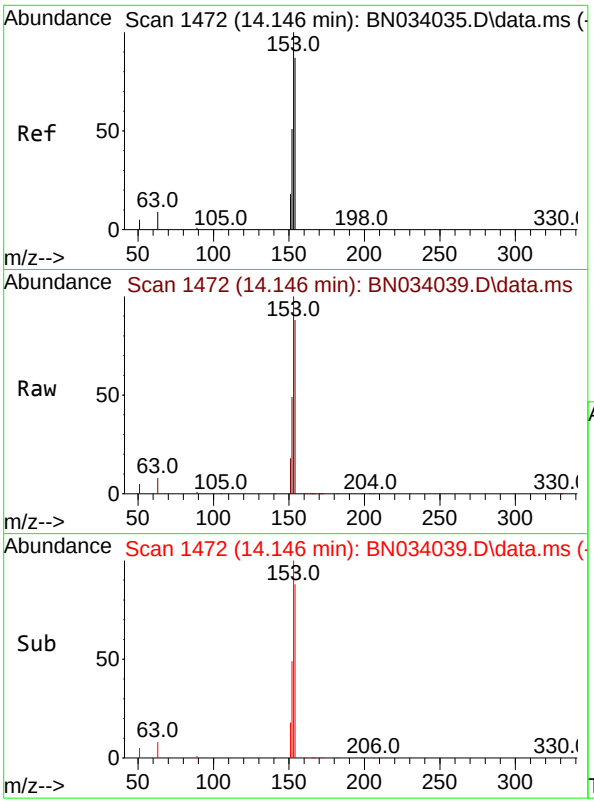


#16
Acenaphthylene
Concen: 5.601 ng
RT: 13.793 min Scan# 1439
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:152 Resp: 314757

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.6	23.4
153	12.9	10.3	15.5



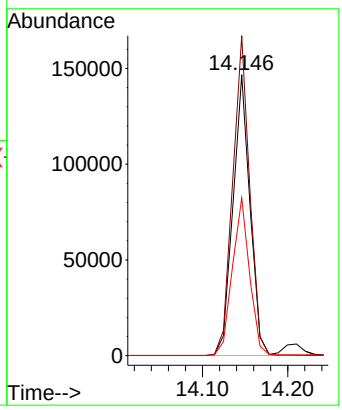


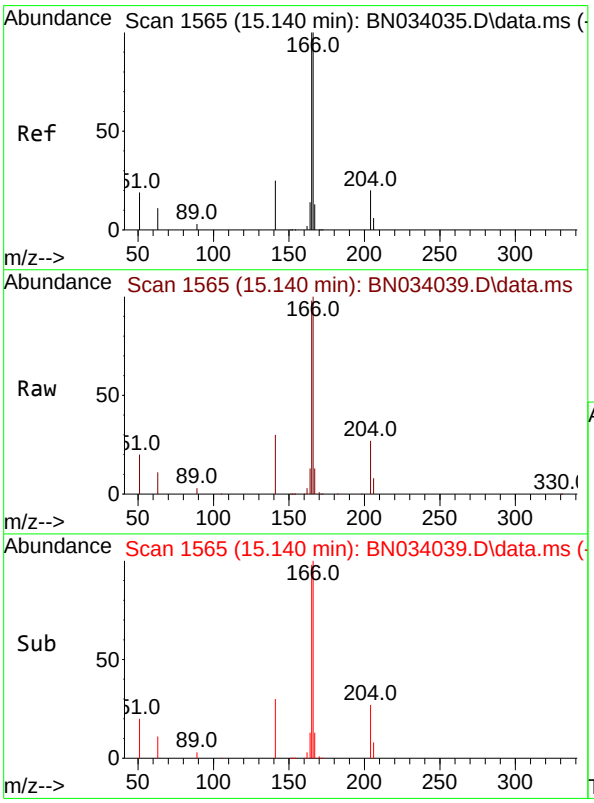
#17
Acenaphthene
Concen: 5.048 ng
RT: 14.146 min Scan# 14
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:154 Resp: 203453

Ion	Ratio	Lower	Upper
154	100		
153	113.5	91.6	137.4
152	56.5	47.4	71.2

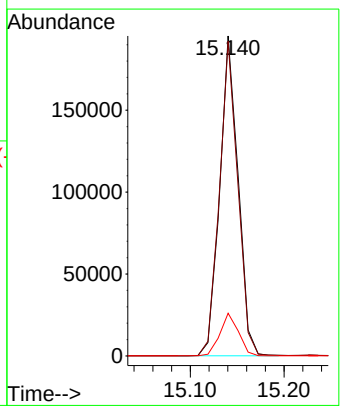


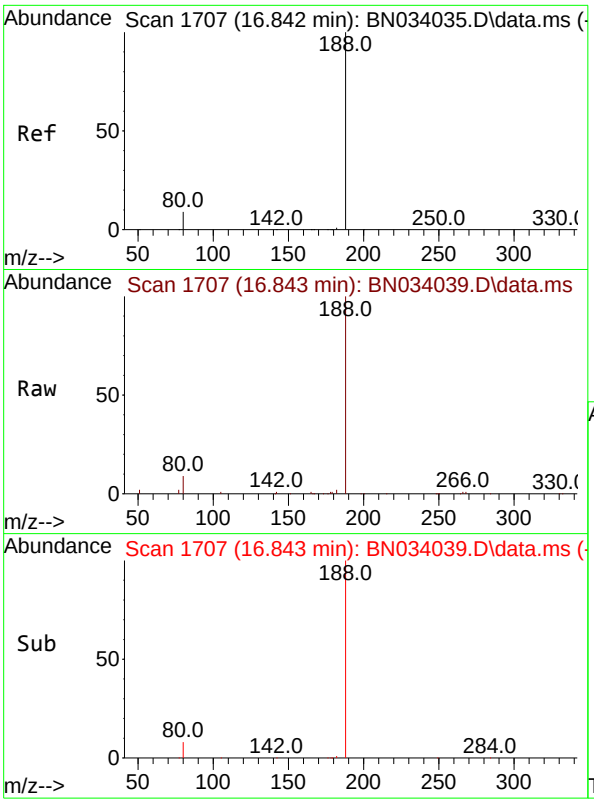


#18
Fluorene
Concen: 5.028 ng
RT: 15.140 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:166 Resp: 265939

Ion	Ratio	Lower	Upper
166	100		
165	98.2	79.1	118.7
167	13.5	10.6	15.8



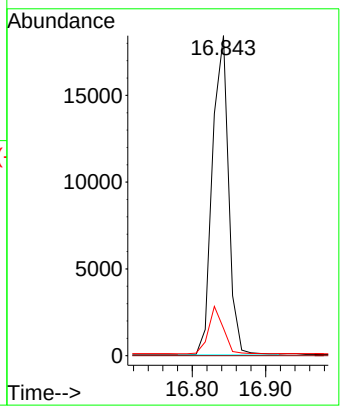


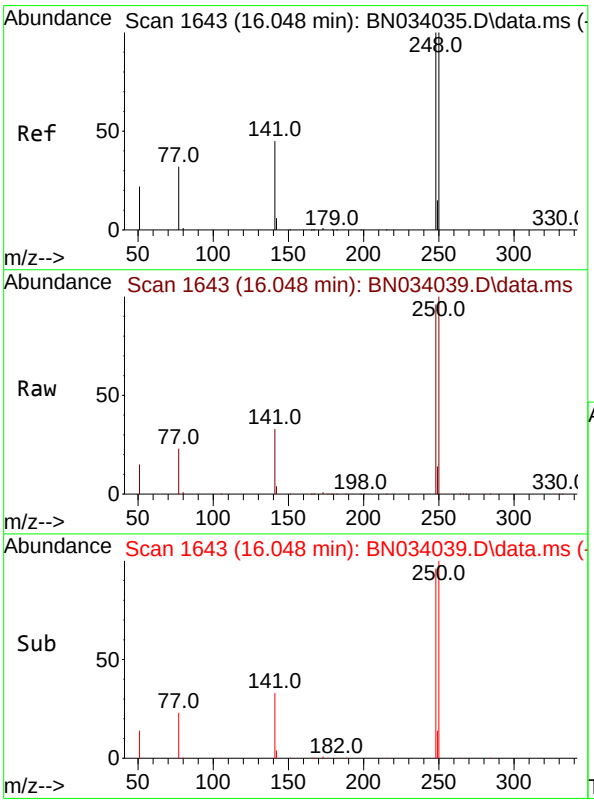
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.843 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:188 Resp: 28109

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	8.6	7.4	11.0

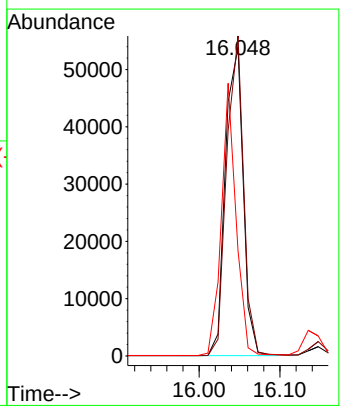


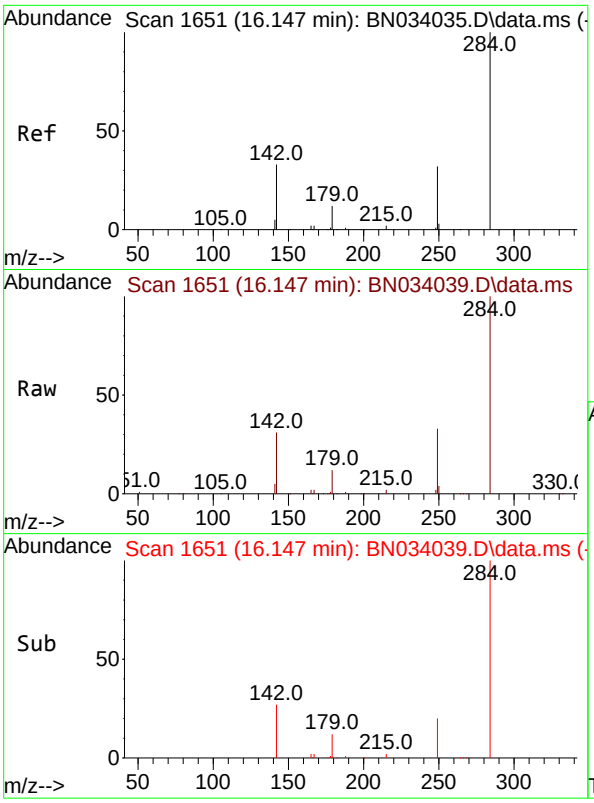


#21
4-Bromophenyl-phenylether
Concen: 5.250 ng
RT: 16.048 min Scan# 1643
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:248 Resp: 82958

Ion	Ratio	Lower	Upper
248	100		
250	103.7	80.5	120.7
141	34.0	37.1	55.7#



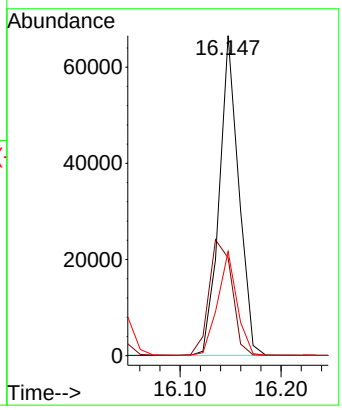


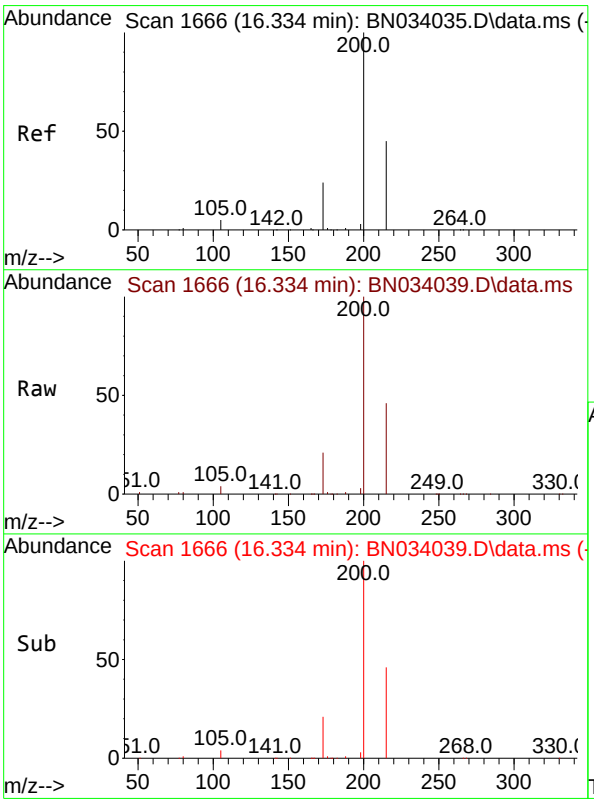
#22
Hexachlorobenzene
Concen: 5.028 ng
RT: 16.147 min Scan# 1(
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:284 Resp: 89079

Ion	Ratio	Lower	Upper
284	100		
142	42.4	34.5	51.7
249	32.1	25.8	38.6

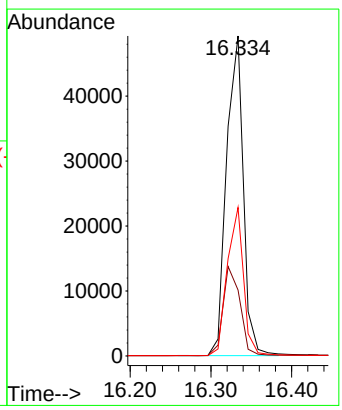


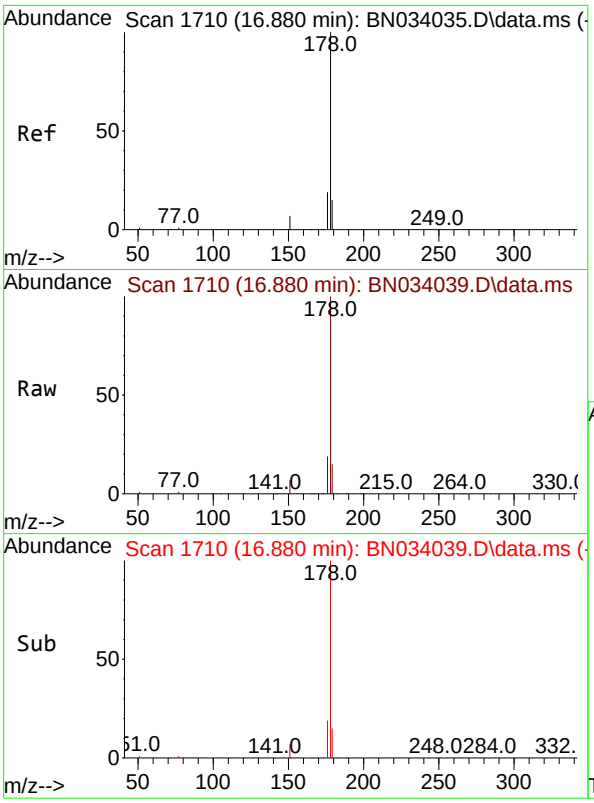


#23
Atrazine
Concen: 5.434 ng
RT: 16.334 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:200 Resp: 71154

Ion	Ratio	Lower	Upper
200	100		
173	20.6	20.1	30.1
215	46.4	37.0	55.6



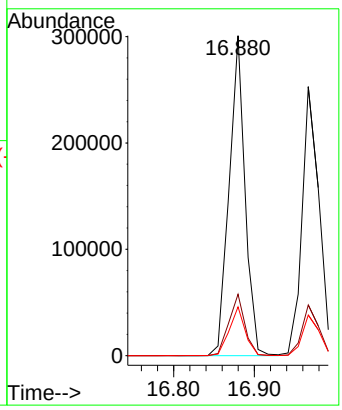


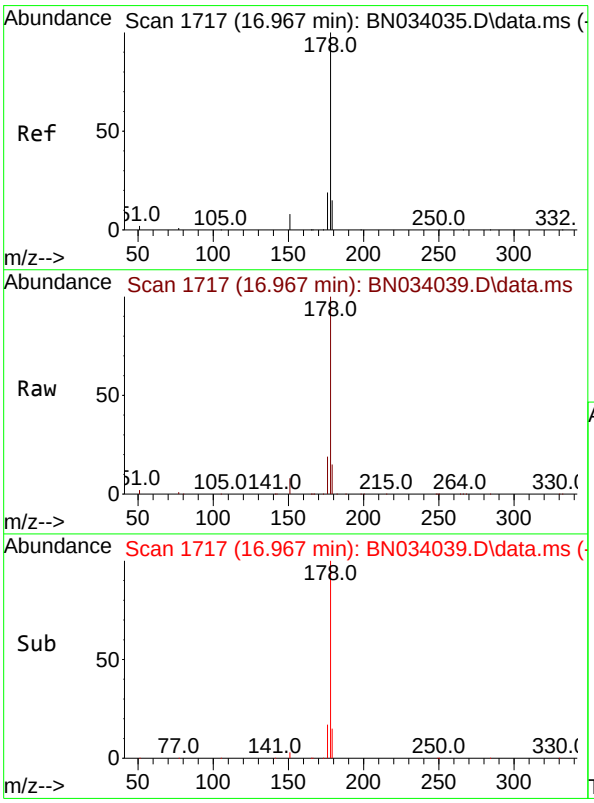
#25
Phenanthrene
Concen: 5.111 ng
RT: 16.880 min Scan# 1
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:178 Resp: 412524

Ion	Ratio	Lower	Upper
178	100		
176	19.3	15.3	22.9
179	15.2	12.1	18.1

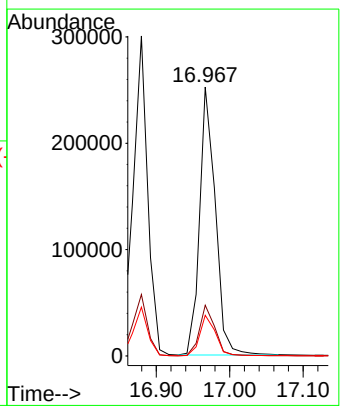


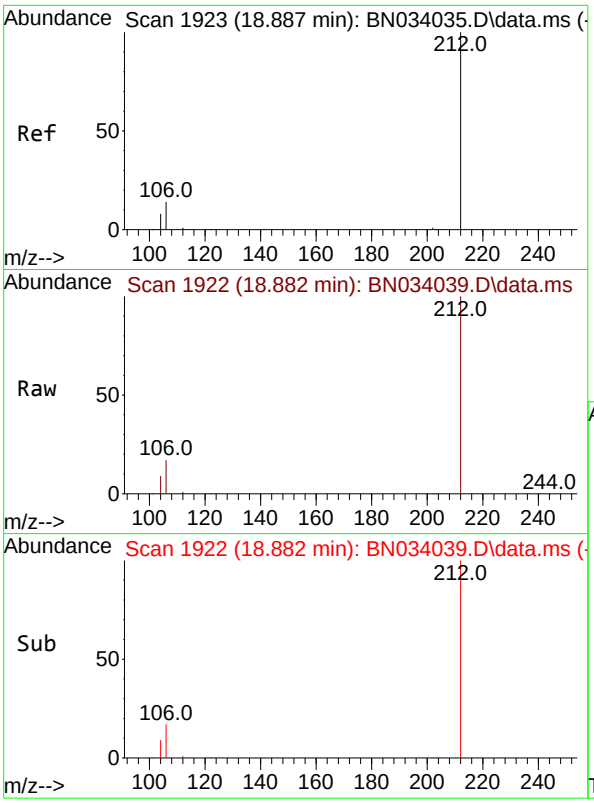


#26
Anthracene
Concen: 5.711 ng
RT: 16.967 min Scan# 1717
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:178 Resp: 376171

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.0	22.6
179	15.2	12.2	18.4



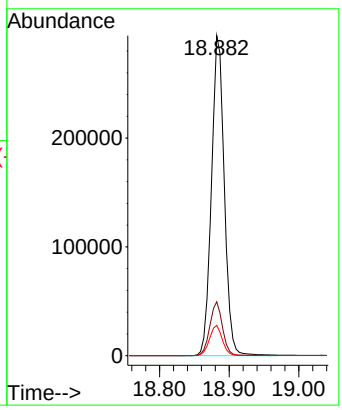


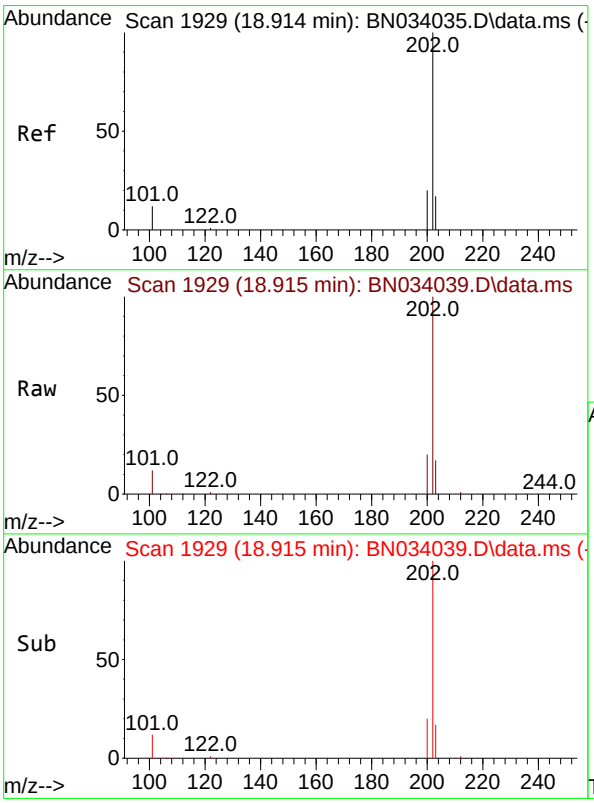
#27
Fluoranthene-d10
Concen: 5.313 ng
RT: 18.882 min Scan# 1
Delta R.T. -0.005 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:212 Resp: 376792

Ion	Ratio	Lower	Upper
212	100		
106	16.6	13.4	20.2
104	9.4	7.8	11.6

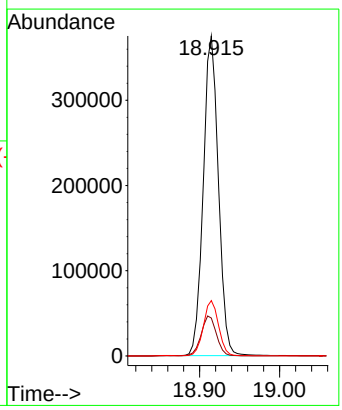


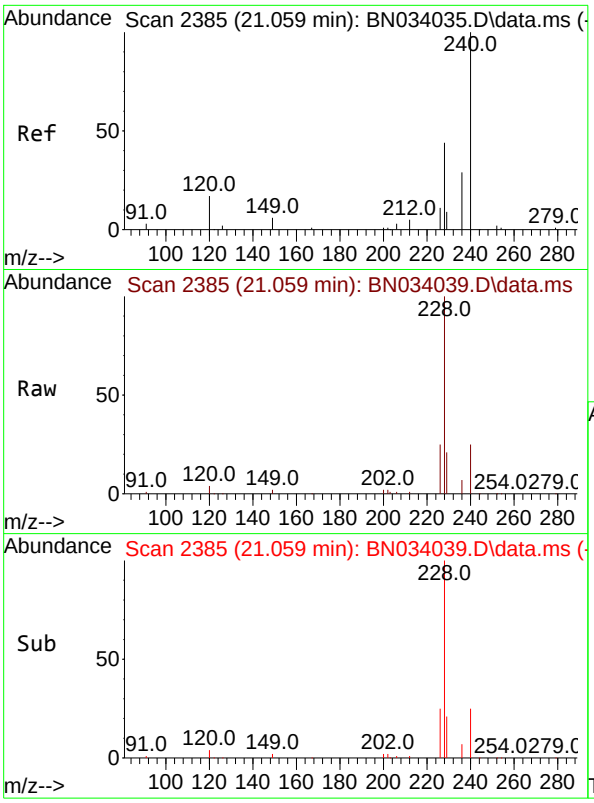


#28
Fluoranthene
Concen: 5.278 ng
RT: 18.915 min Scan# 1929
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:202 Resp: 493549

Ion	Ratio	Lower	Upper
202	100		
101	12.8	10.1	15.1
203	17.3	13.6	20.4



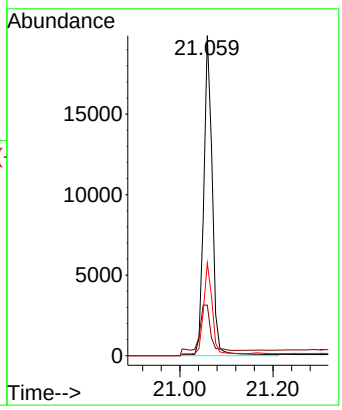


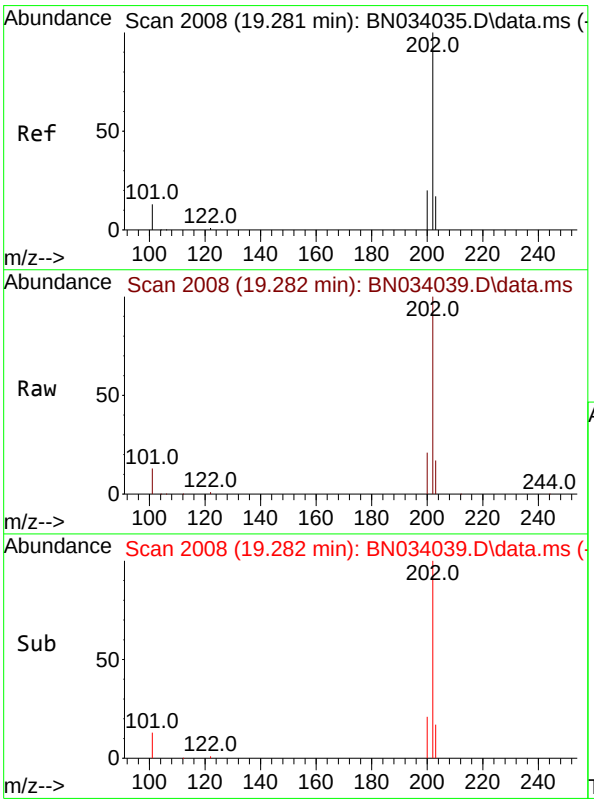
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.059 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:240 Resp: 24472

Ion	Ratio	Lower	Upper
240	100		
120	15.8	13.5	20.3
236	29.0	23.4	35.0

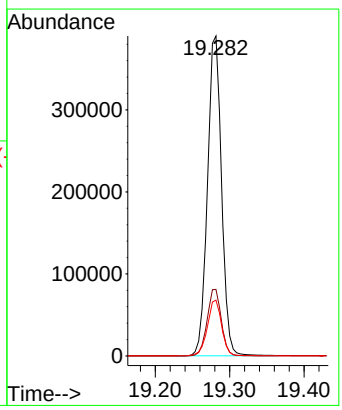


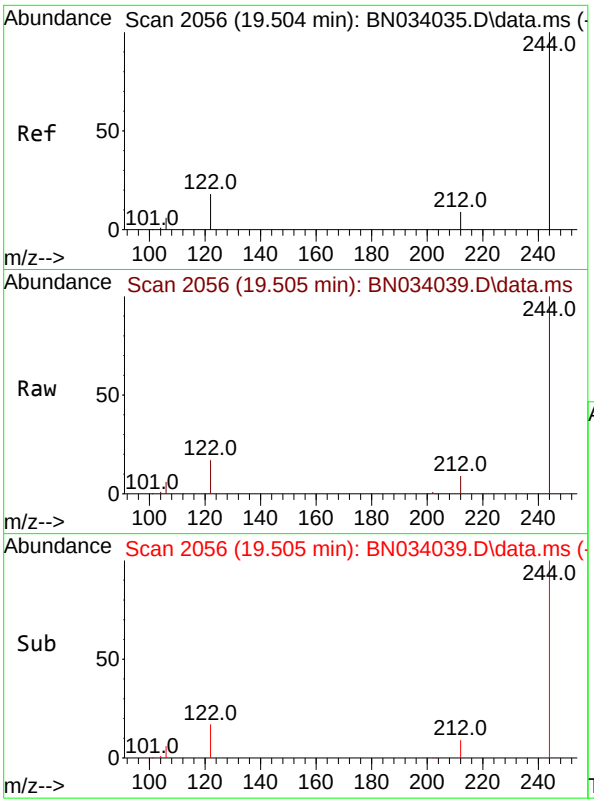


#30
Pyrene
Concen: 4.946 ng
RT: 19.282 min Scan# 2008
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:202 Resp: 510885

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.6	25.0
203	17.8	14.3	21.5



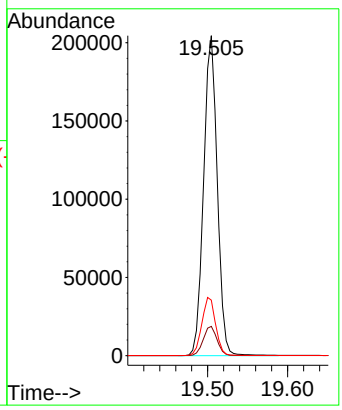


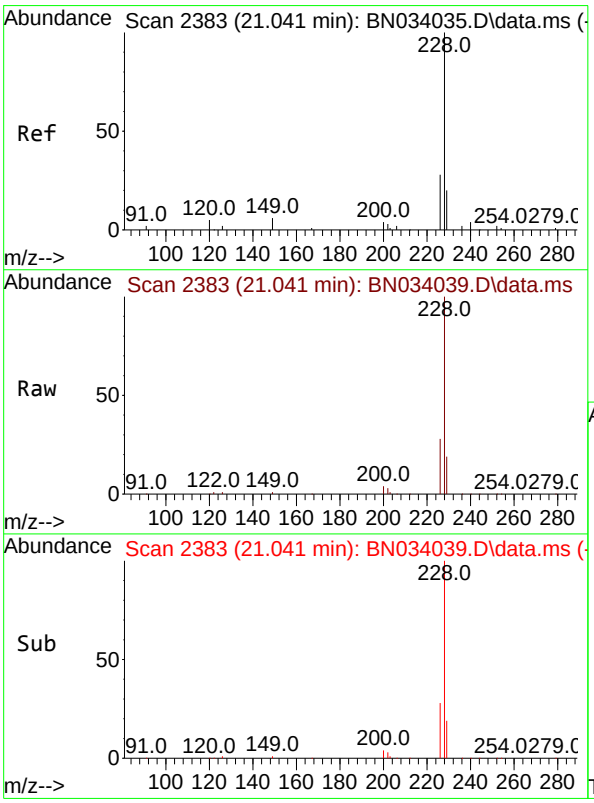
#31
Terphenyl-d14
Concen: 4.949 ng
RT: 19.505 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:244 Resp: 241874

Ion	Ratio	Lower	Upper
244	100		
212	9.2	7.8	11.6
122	17.4	14.8	22.2

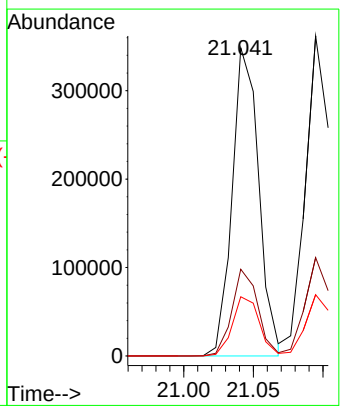


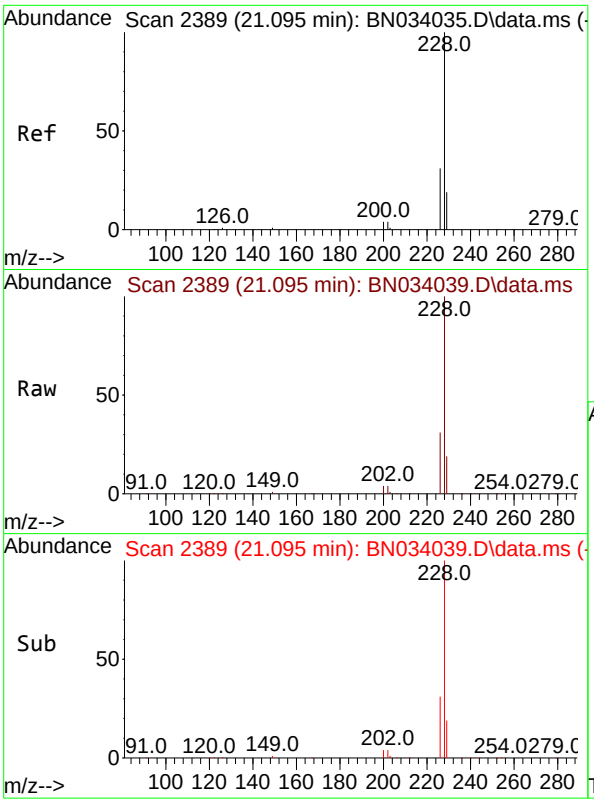


#32
Benzo(a)anthracene
Concen: 5.334 ng
RT: 21.041 min Scan# 2383
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:228 Resp: 412990

Ion	Ratio	Lower	Upper
228	100		
226	28.1	22.3	33.5
229	19.2	15.7	23.5



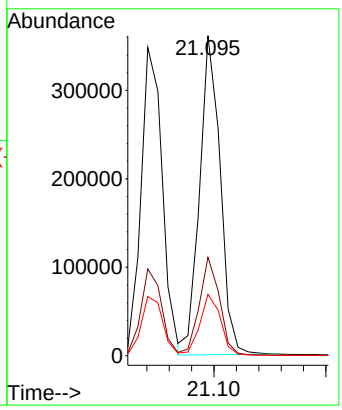


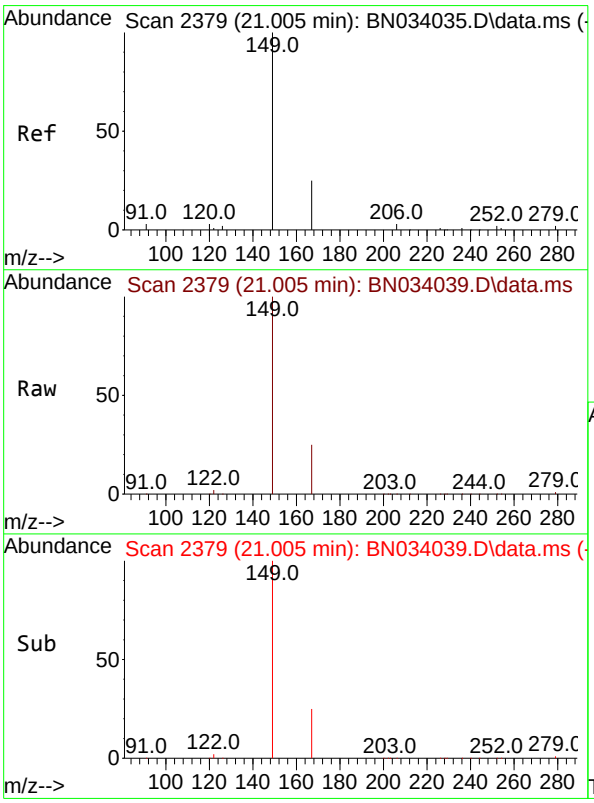
#33
Chrysene
Concen: 4.996 ng
RT: 21.095 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:228 Resp: 461460

Ion	Ratio	Lower	Upper
228	100		
226	30.8	24.6	37.0
229	19.2	15.5	23.3

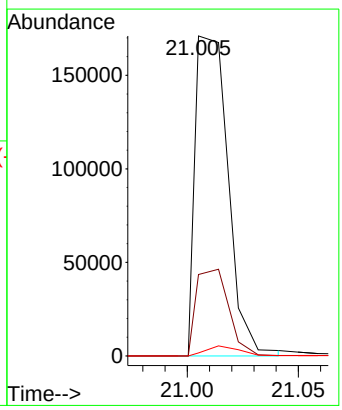


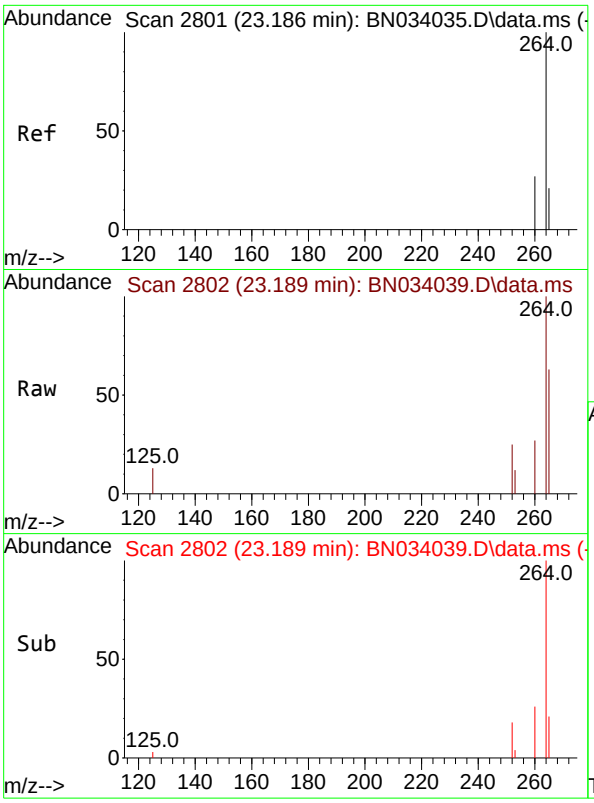


#34
Bis(2-ethylhexyl)phthalate
Concen: 5.180 ng
RT: 21.005 min Scan# 2379
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:149 Resp: 167044

Ion	Ratio	Lower	Upper
149	100		
167	26.5	19.9	29.9
279	3.0	4.6	6.8#



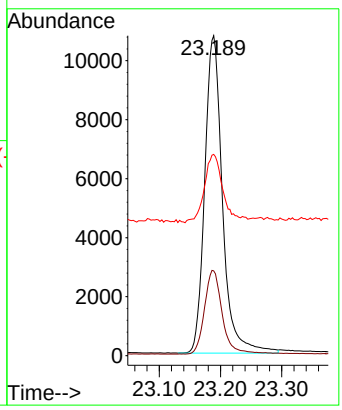


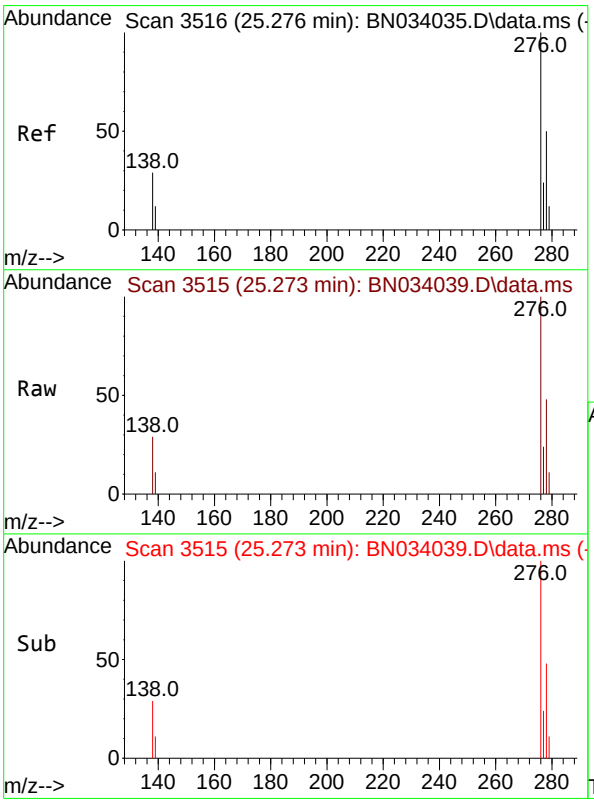
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.189 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:264 Resp: 21702

Ion	Ratio	Lower	Upper
264	100		
260	26.5	21.7	32.5
265	62.9	52.1	78.1

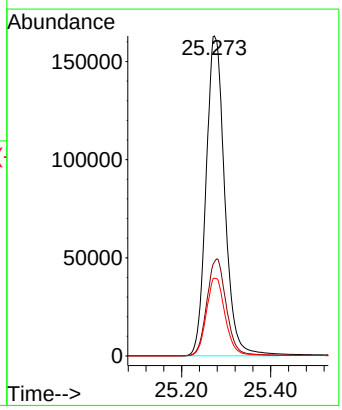


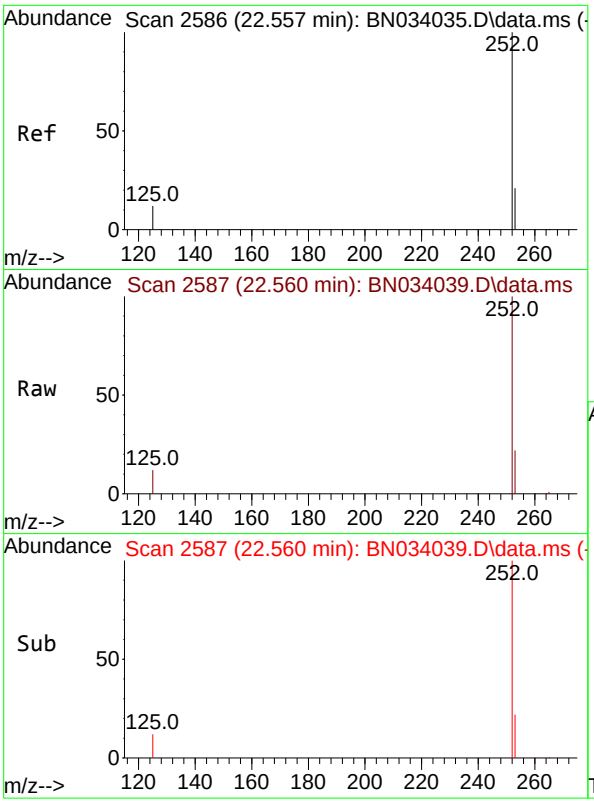


#36
Indeno(1,2,3-cd)pyrene
Concen: 5.088 ng
RT: 25.273 min Scan# 3515
Delta R.T. -0.003 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:276 Resp: 473110

Ion	Ratio	Lower	Upper
276	100		
138	31.6	25.9	38.9
277	24.7	19.7	29.5



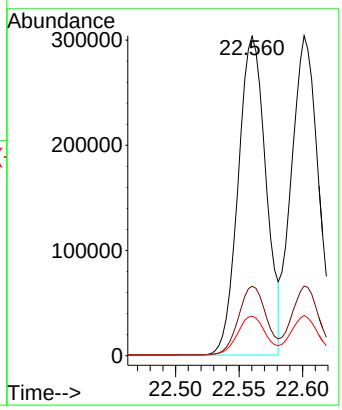


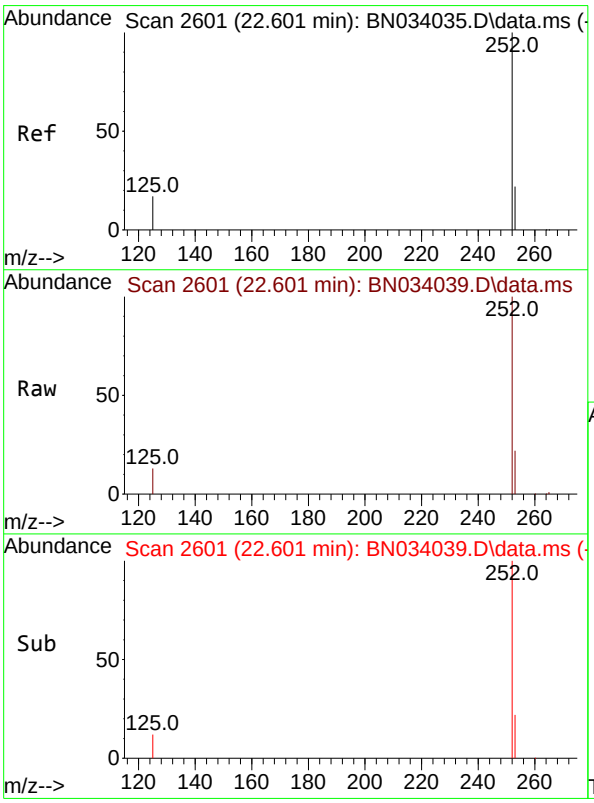
#37
Benzo(b)fluoranthene
Concen: 5.413 ng
RT: 22.560 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 460182

Ion	Ratio	Lower	Upper
252	100		
253	21.7	19.6	29.4
125	12.3	13.8	20.8#

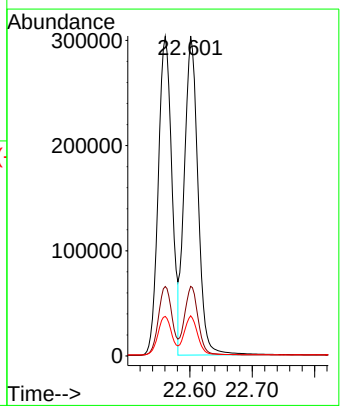


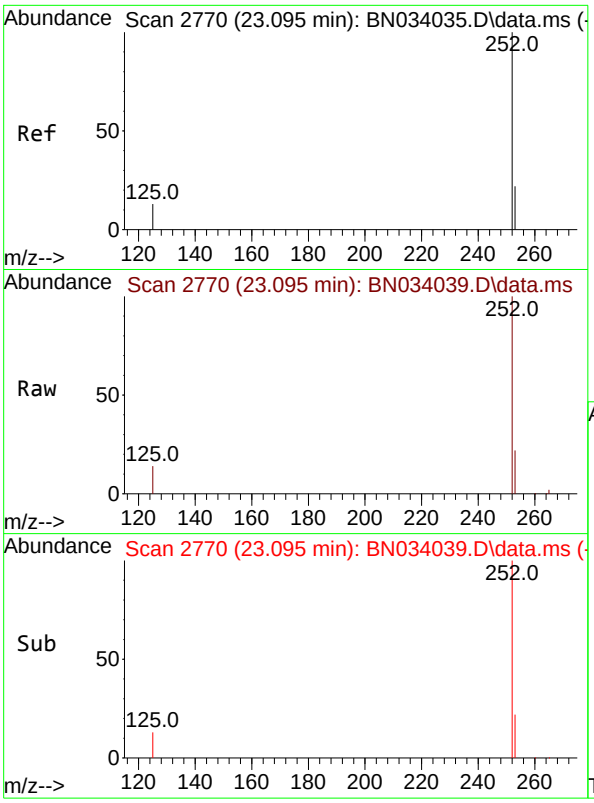


#38
Benzo(k)fluoranthene
Concen: 5.172 ng
RT: 22.601 min Scan# 2601
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:252 Resp: 461573

Ion	Ratio	Lower	Upper
252	100		
253	21.8	20.1	30.1
125	12.5	16.8	25.2#



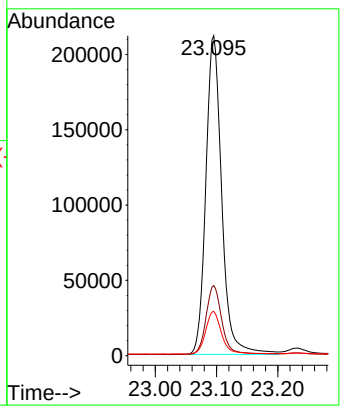


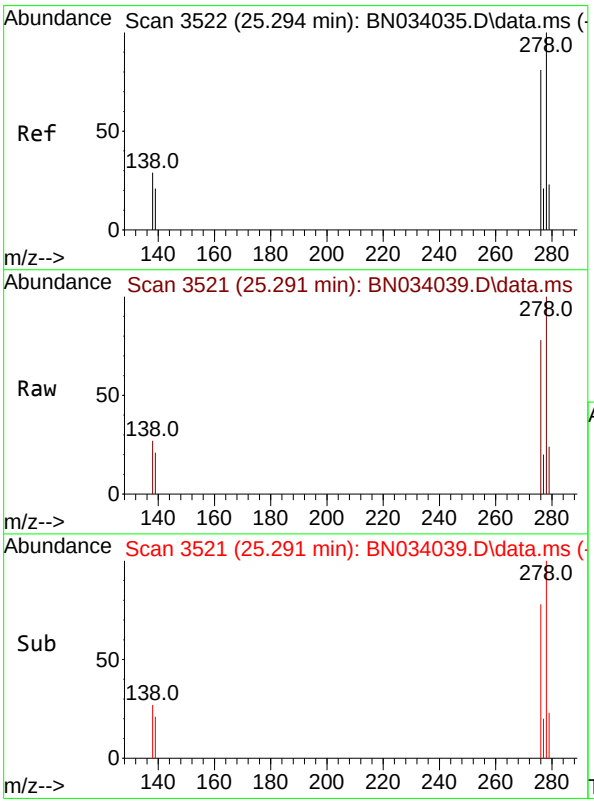
#39
Benzo(a)pyrene
Concen: 5.517 ng
RT: 23.095 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:252 Resp: 382292

Ion	Ratio	Lower	Upper
252	100		
253	21.9	21.8	32.8
125	13.9	17.5	26.3#

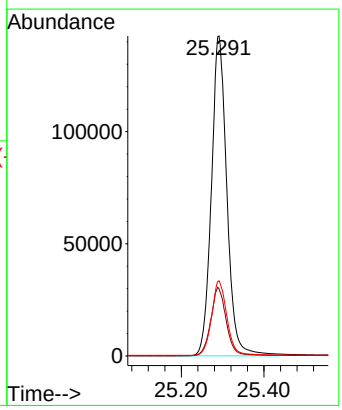


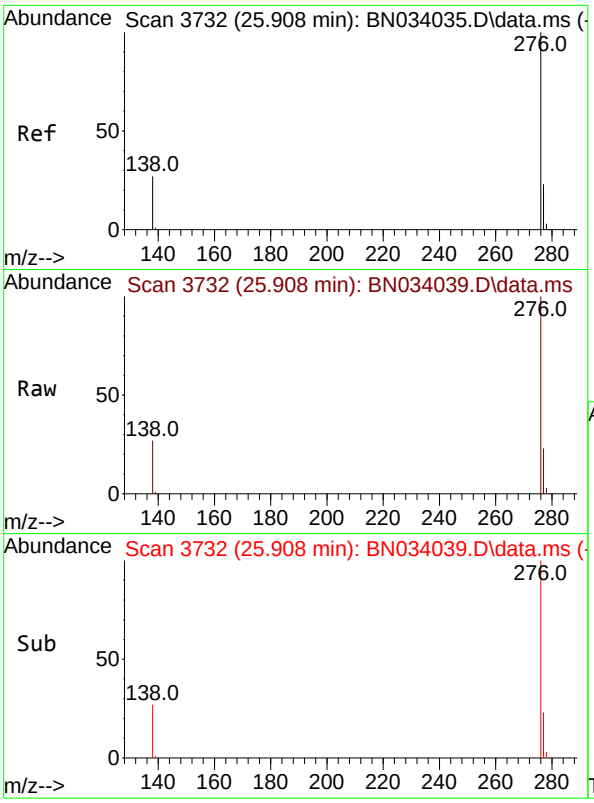


#40
Dibenzo(a,h)anthracene
Concen: 5.139 ng
RT: 25.291 min Scan# 3521
Delta R.T. -0.003 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Tgt Ion:278 Resp: 371244

Ion	Ratio	Lower	Upper
278	100		
139	21.0	17.8	26.8
279	23.5	21.0	31.6



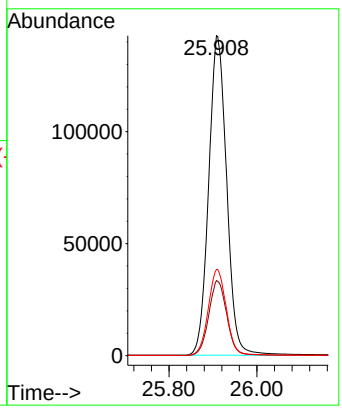


#41
Benzo(g,h,i)perylene
Concen: 4.985 ng
RT: 25.908 min Scan# 3
Delta R.T. 0.000 min
Lab File: BN034039.D
Acq: 18 Sep 2024 15:30

Instrument :
BNA_N
ClientSampleId :
SSTDICC5.0

Tgt Ion:276 Resp: 404439

Ion	Ratio	Lower	Upper
276	100		
277	23.5	19.3	28.9
138	27.0	22.6	34.0



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034040.D
Acq On : 18 Sep 2024 18:01
Operator : JU/RC
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Quant Time: Sep 18 18:29:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.438	152	7441	0.400	ng		0.00
7) Naphthalene-d8	10.191	136	20648	0.400	ng	#	0.00
13) Acenaphthene-d10	14.083	164	10842	0.400	ng		0.00
19) Phenanthrene-d10	16.833	188	21730	0.400	ng	#	0.00
29) Chrysene-d12	21.062	240	13486	0.400	ng		0.00
35) Perylene-d12	23.189	264	12946	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.076	112	9341	0.442	ng		0.00
5) Phenol-d6	6.636	99	9977	0.406	ng		0.00
8) Nitrobenzene-d5	8.578	82	5636	0.357	ng		0.00
11) 2-Methylnaphthalene-d10	11.795	152	11291	0.370	ng		0.00
14) 2,4,6-Tribromophenol	15.592	330	1851	0.377	ng		0.00
15) 2-Fluorobiphenyl	12.693	172	17844	0.405	ng		0.00
27) Fluoranthene-d10	18.885	212	19215	0.350	ng		0.00
31) Terphenyl-d14	19.503	244	11191	0.415	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.083	88	3911	0.420	ng		98
3) n-Nitrosodimethylamine	3.379	42	4225	0.399	ng	#	95
6) bis(2-Chloroethyl)ether	6.881	93	8259	0.380	ng		100
9) Naphthalene	10.244	128	22158	0.391	ng		100
10) Hexachlorobutadiene	10.543	225	4339	0.406	ng	#	99
12) 2-Methylnaphthalene	11.871	142	13664	0.371	ng		98
16) Acenaphthylene	13.794	152	17256	0.372	ng		99
17) Acenaphthene	14.147	154	13226	0.397	ng		100
18) Fluorene	15.141	166	16560	0.379	ng		100
20) 4,6-Dinitro-2-methylph...	15.238	198	936	0.370	ng		85
21) 4-Bromophenyl-phenylether	16.051	248	4712	0.386	ng		94
22) Hexachlorobenzene	16.150	284	5733	0.419	ng		100
23) Atrazine	16.337	200	3719	0.367	ng		97
24) Pentachlorophenol	16.498	266	1746	0.386	ng		99
25) Phenanthrene	16.883	178	24279	0.389	ng		100
26) Anthracene	16.970	178	18267	0.359	ng		100
28) Fluoranthene	18.913	202	25109	0.347	ng		100
30) Pyrene	19.280	202	25618	0.450	ng		100
32) Benzo(a)anthracene	21.044	228	15786	0.370	ng		100
33) Chrysene	21.098	228	20535	0.403	ng		99
34) Bis(2-ethylhexyl)phtha...	21.008	149	6532	0.368	ng	#	98
36) Indeno(1,2,3-cd)pyrene	25.279	276	22278	0.402	ng		99
37) Benzo(b)fluoranthene	22.563	252	19554	0.386	ng		95
38) Benzo(k)fluoranthene	22.604	252	21903	0.411	ng		97
39) Benzo(a)pyrene	23.098	252	15991	0.387	ng		94
40) Dibenzo(a,h)anthracene	25.297	278	17016	0.395	ng		97
41) Benzo(g,h,i)perylene	25.911	276	19666	0.406	ng		100

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

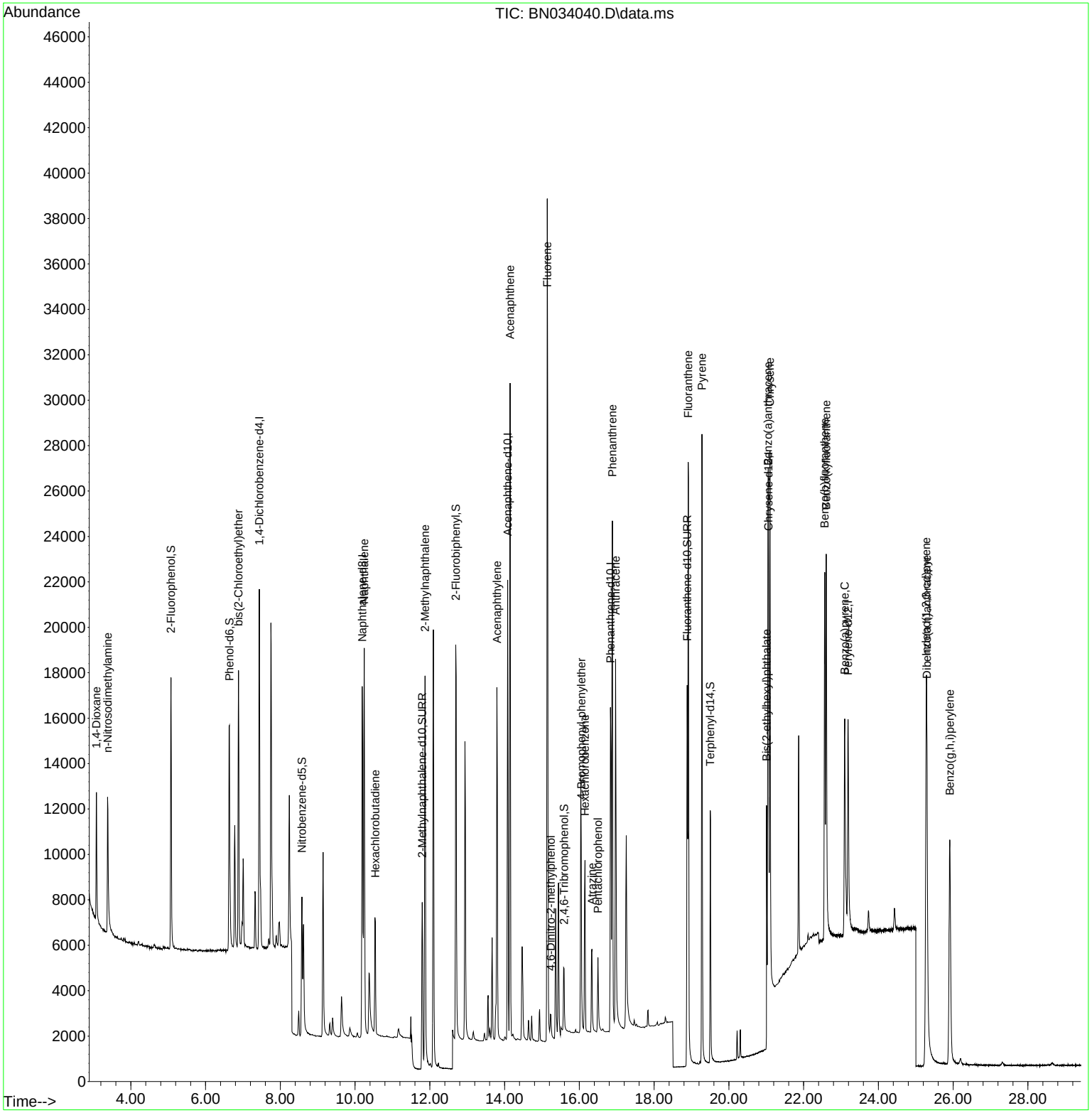
Quantitation Report (QT Reviewed)

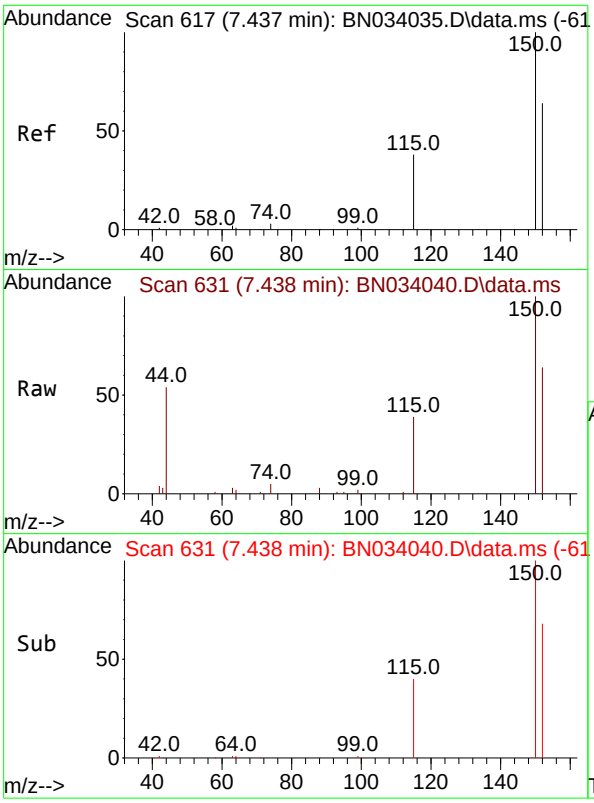
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034040.D
Acq On : 18 Sep 2024 18:01
Operator : JU/RC
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Quant Time: Sep 18 18:29:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



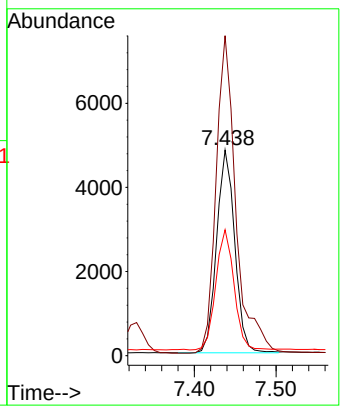


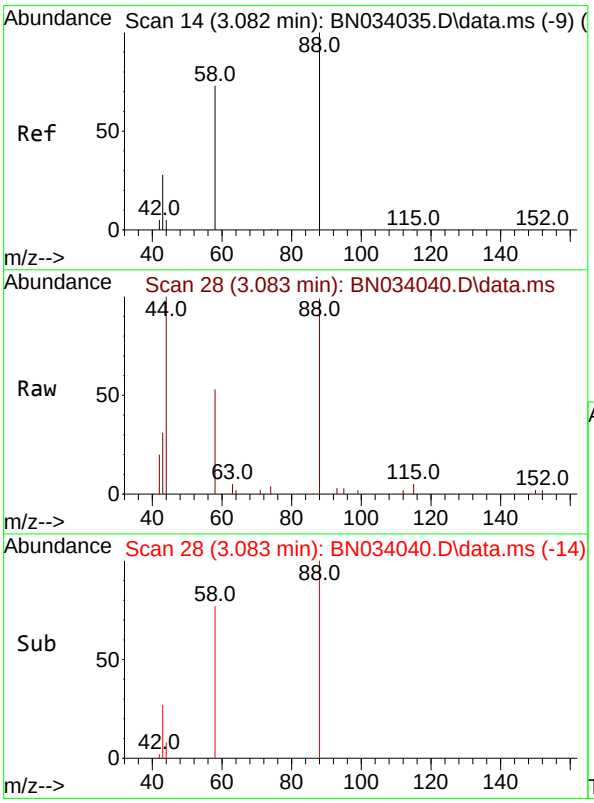
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.438 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:152 Resp: 7441

Ion	Ratio	Lower	Upper
152	100		
150	155.6	124.6	187.0
115	61.2	50.0	75.0

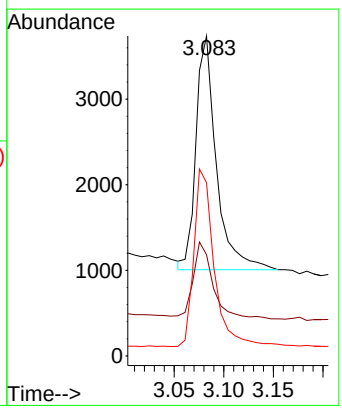


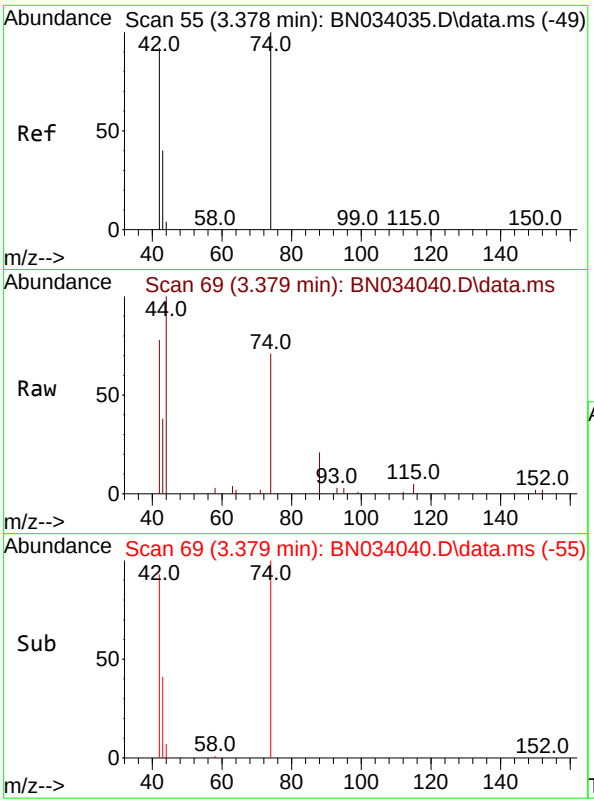


#2
1,4-Dioxane
Concen: 0.420 ng
RT: 3.083 min Scan# 28
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion: 88 Resp: 3911

Ion	Ratio	Lower	Upper
88	100		
43	32.2	25.8	38.8
58	75.5	58.8	88.2



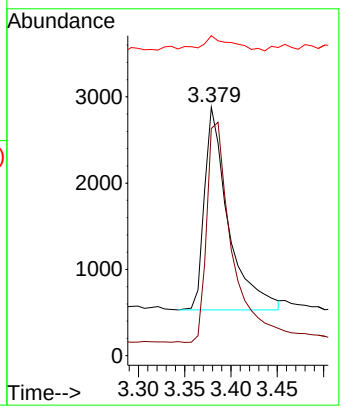


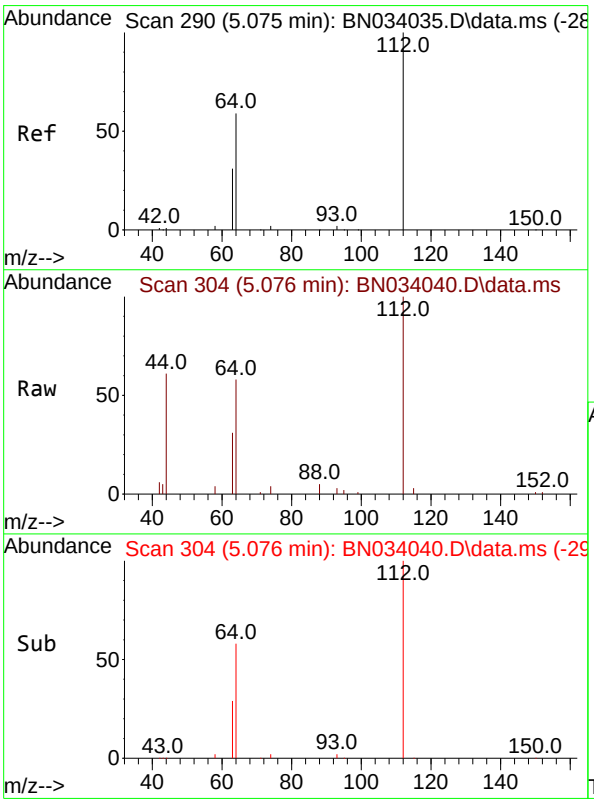
#3
n-Nitrosodimethylamine
Concen: 0.399 ng
RT: 3.379 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion: 42 Resp: 4225

Ion	Ratio	Lower	Upper
42	100		
74	115.0	94.6	142.0
44	8.1	12.4	18.6#

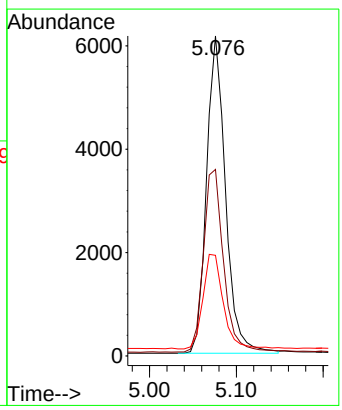


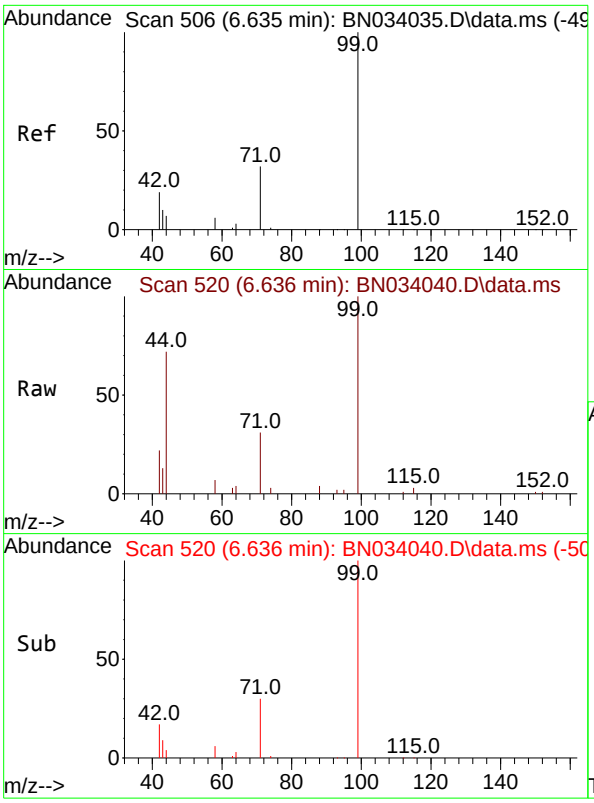


#4
2-Fluorophenol
Concen: 0.442 ng
RT: 5.076 min Scan# 304
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:112 Resp: 9341

Ion	Ratio	Lower	Upper
112	100		
64	60.9	48.6	72.8
63	31.8	25.6	38.4



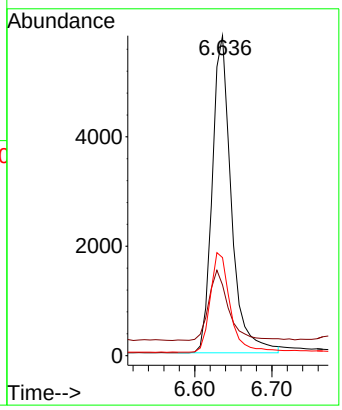


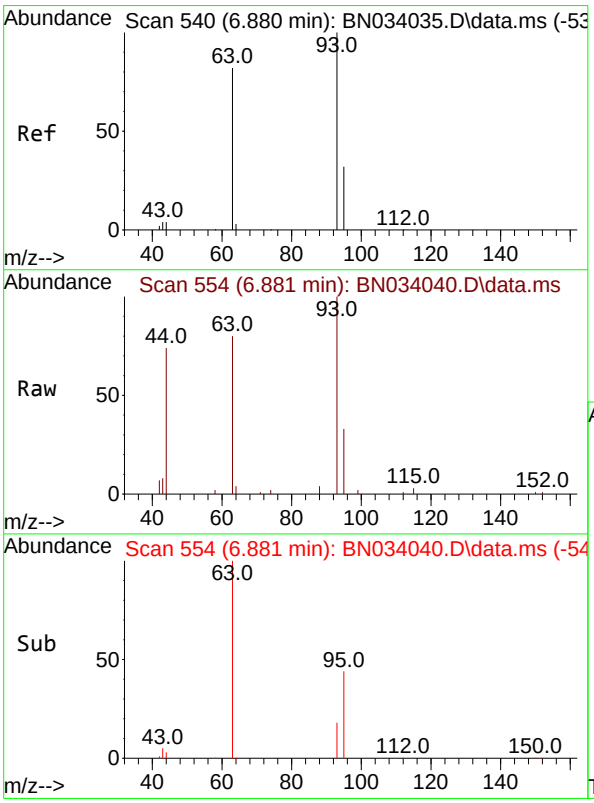
#5
Phenol-d6
Concen: 0.406 ng
RT: 6.636 min Scan# 5
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion: 99 Resp: 9977

Ion	Ratio	Lower	Upper
99	100		
42	22.8	17.8	26.8
71	32.8	26.2	39.2

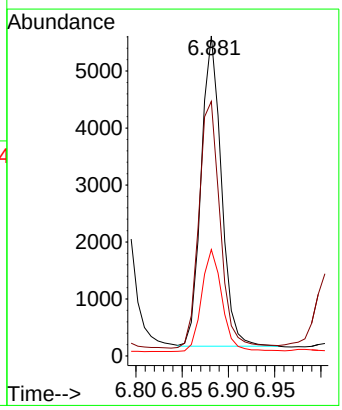


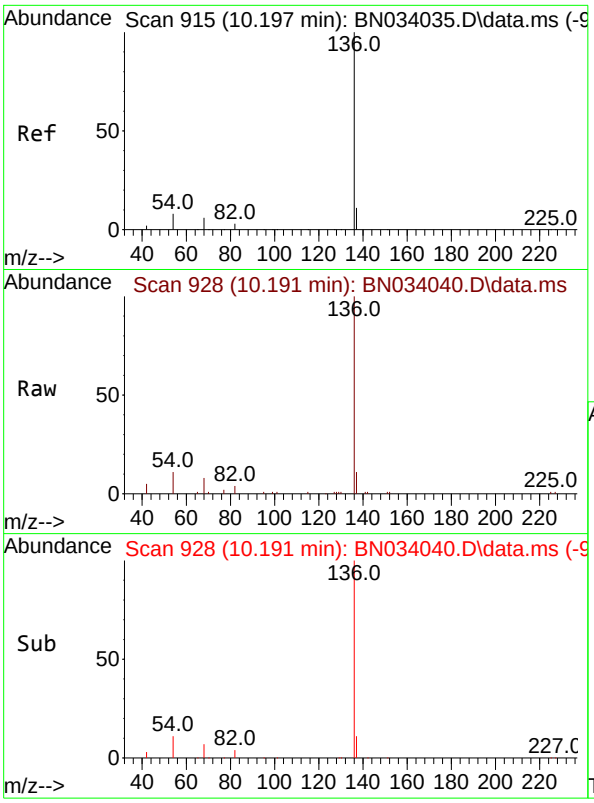


#6
bis(2-Chloroethyl)ether
Concen: 0.380 ng
RT: 6.881 min Scan# 554
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion: 93 Resp: 8259

Ion	Ratio	Lower	Upper
93	100		
63	84.3	67.3	100.9
95	33.4	26.8	40.2



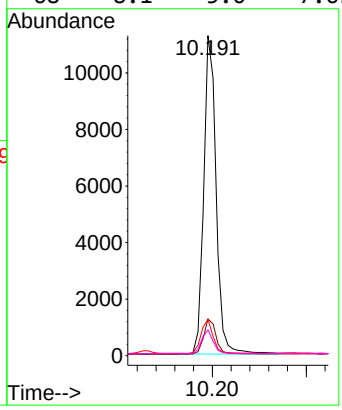


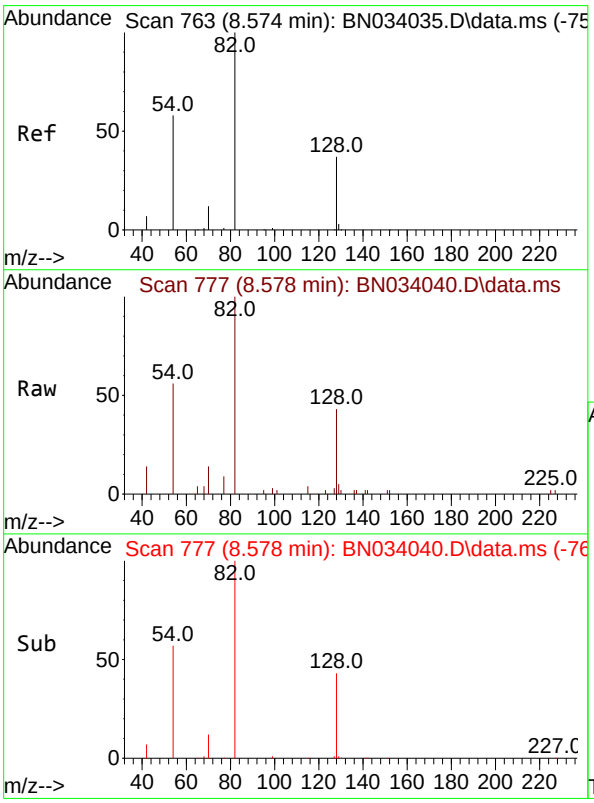
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.191 min Scan# 9
Delta R.T. -0.006 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:136 Resp: 20648

Ion	Ratio	Lower	Upper
136	100		
137	11.4	9.0	13.6
54	11.4	6.8	10.2#
68	8.1	5.0	7.6#

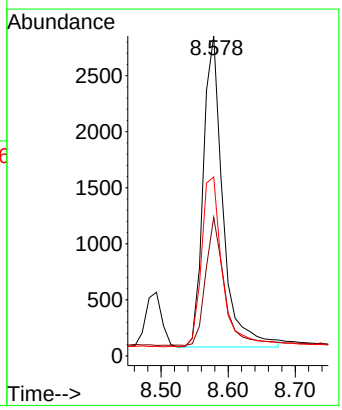


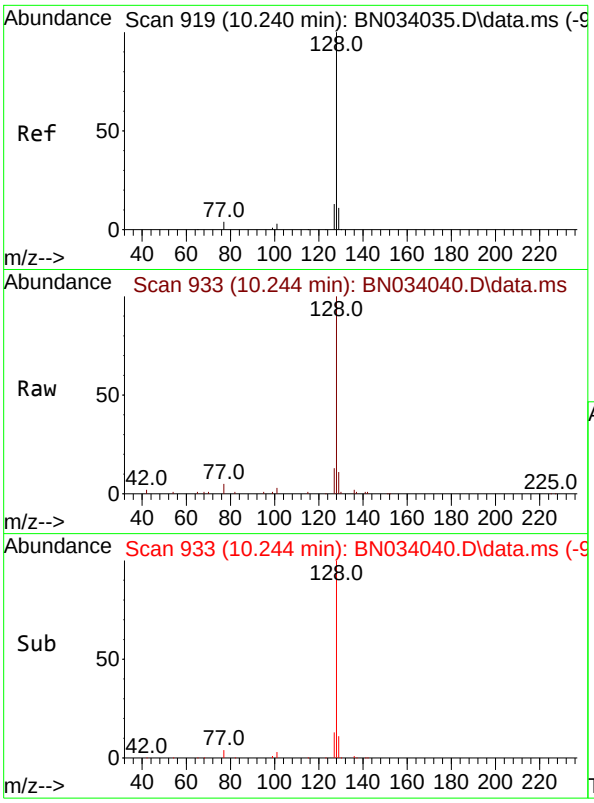


#8
Nitrobenzene-d5
Concen: 0.357 ng
RT: 8.578 min Scan# 777
Delta R.T. 0.004 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion: 82 Resp: 5636

Ion	Ratio	Lower	Upper
82	100		
128	43.3	31.4	47.2
54	55.9	47.4	71.0



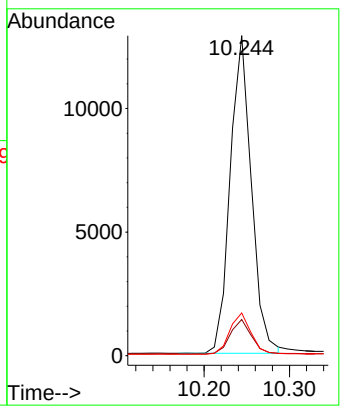


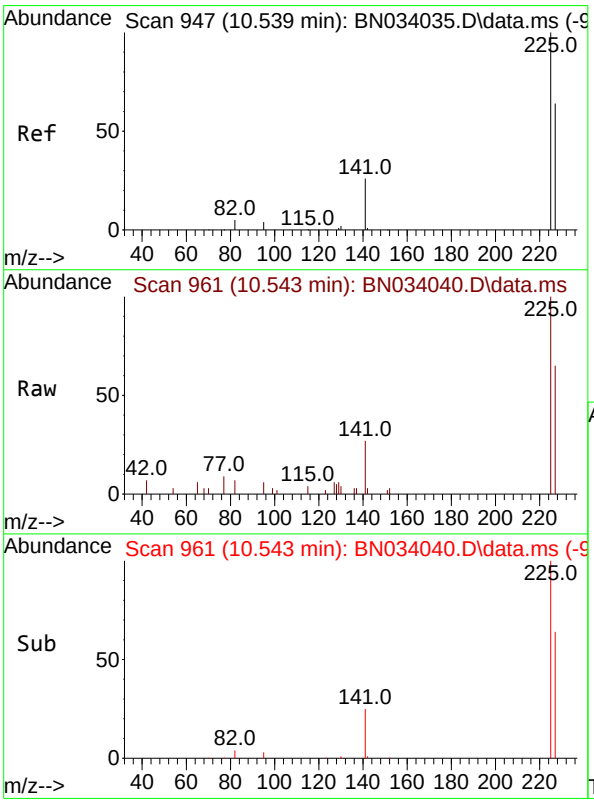
#9
Naphthalene
Concen: 0.391 ng
RT: 10.244 min Scan# 9
Delta R.T. 0.004 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:128 Resp: 22158

Ion	Ratio	Lower	Upper
128	100		
129	11.3	9.2	13.8
127	13.3	10.7	16.1

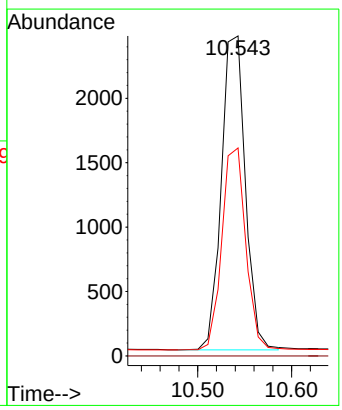


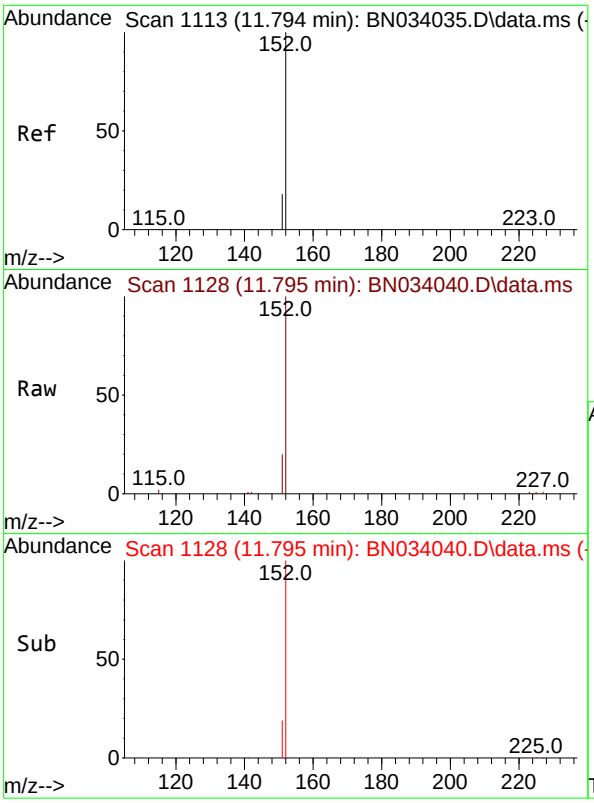


#10
Hexachlorobutadiene
Concen: 0.406 ng
RT: 10.543 min Scan# 961
Delta R.T. 0.004 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:225 Resp: 4339

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	63.8	50.5	75.7



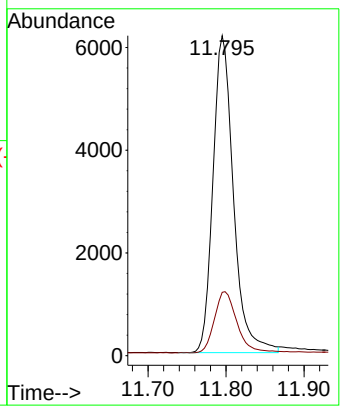


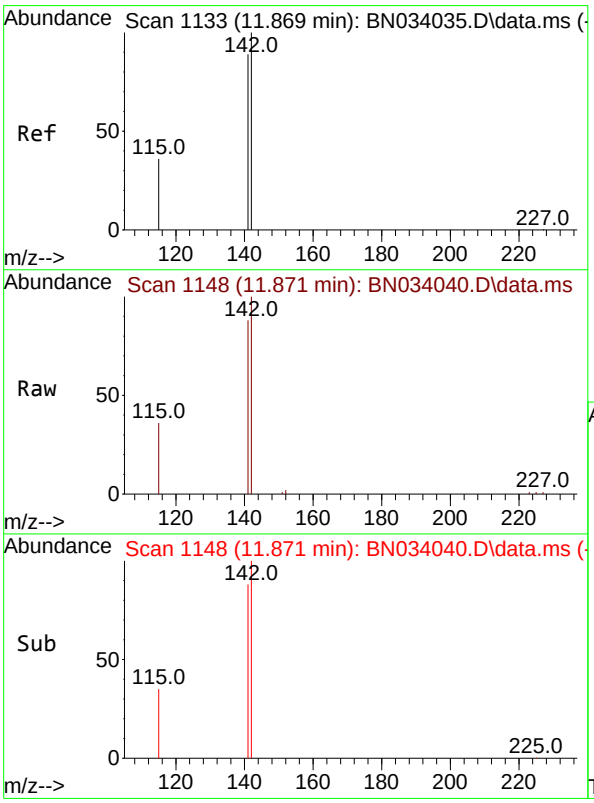
#11
2-Methylnaphthalene-d10
Concen: 0.370 ng
RT: 11.795 min Scan# 11
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:152 Resp: 11291

Ion	Ratio	Lower	Upper
152	100		
151	21.3	16.8	25.2

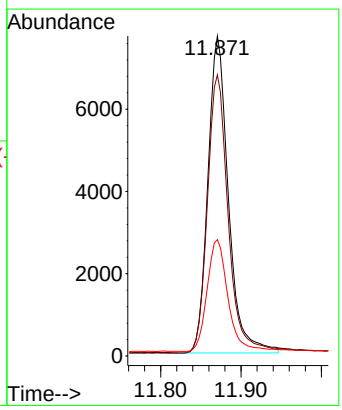


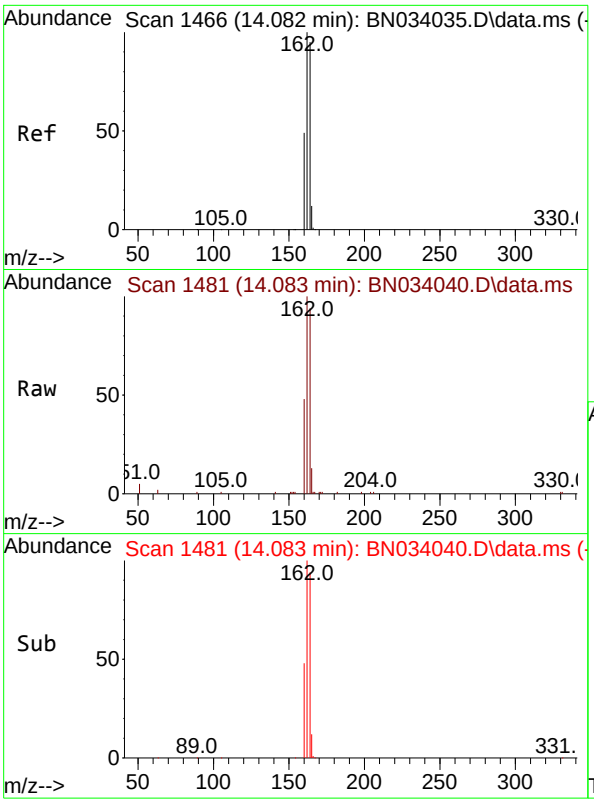


#12
2-Methylnaphthalene
Concen: 0.371 ng
RT: 11.871 min Scan# 1148
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:142 Resp: 13664

Ion	Ratio	Lower	Upper
142	100		
141	87.9	71.6	107.4
115	36.4	30.0	45.0



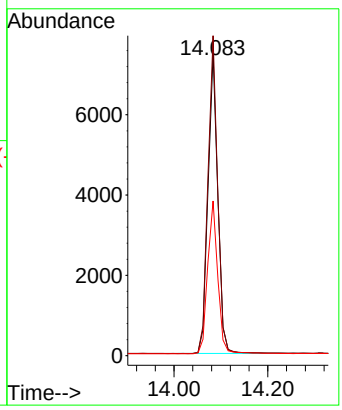


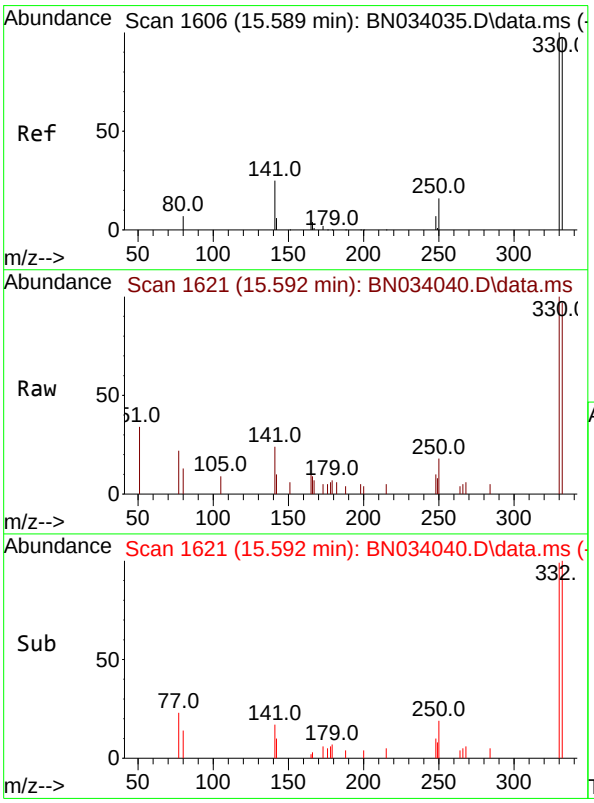
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.083 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:164 Resp: 10842

Ion	Ratio	Lower	Upper
164	100		
162	105.9	84.2	126.2
160	51.2	41.7	62.5

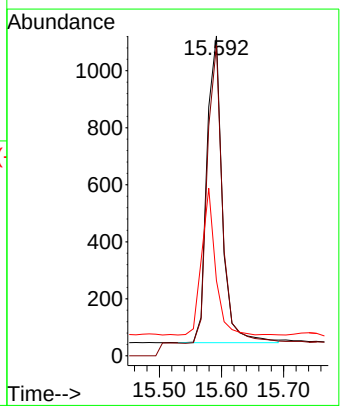


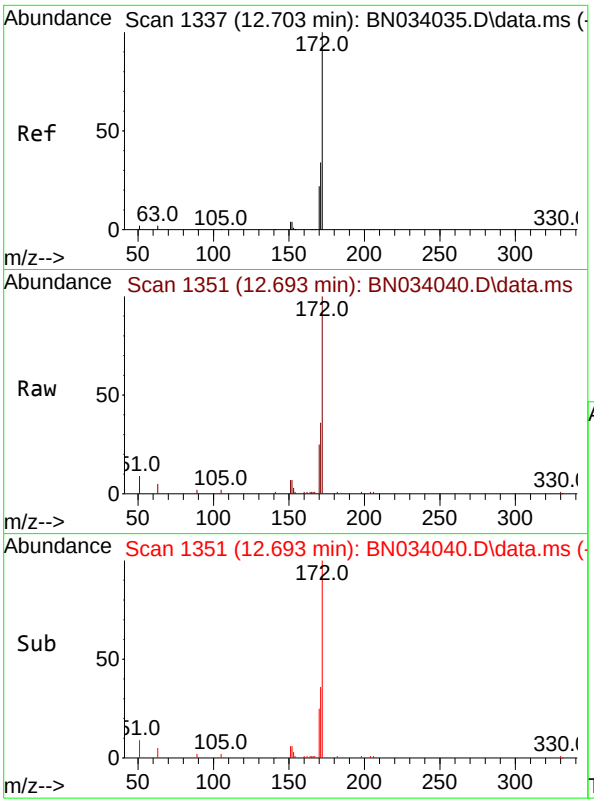


#14
2,4,6-Tribromophenol
Concen: 0.377 ng
RT: 15.592 min Scan# 1621
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:330 Resp: 1851

Ion	Ratio	Lower	Upper
330	100		
332	96.7	77.4	116.0
141	43.4	35.9	53.9



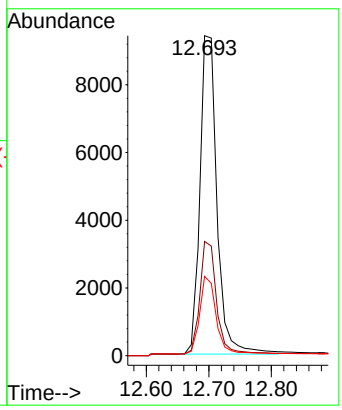


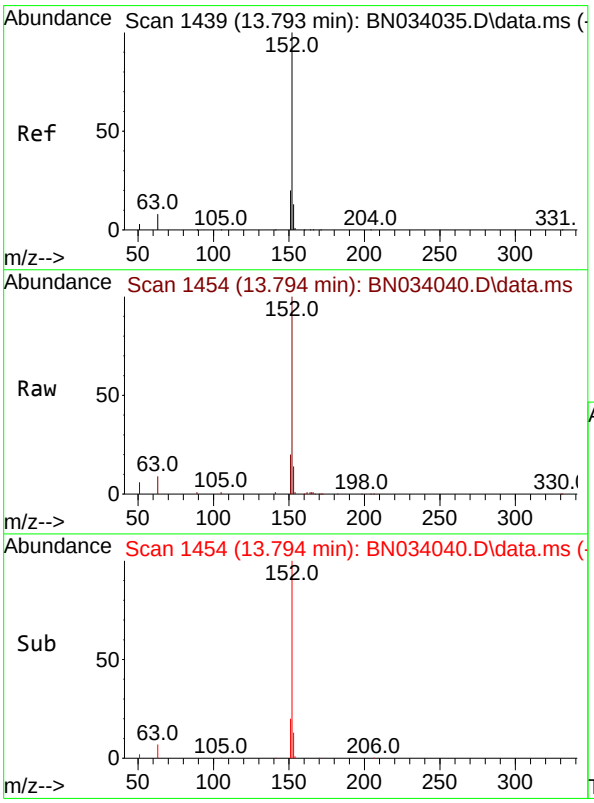
#15
2-Fluorobiphenyl
Concen: 0.405 ng
RT: 12.693 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:172 Resp: 17844

Ion	Ratio	Lower	Upper
172	100		
171	35.7	27.3	40.9
170	24.8	18.1	27.1

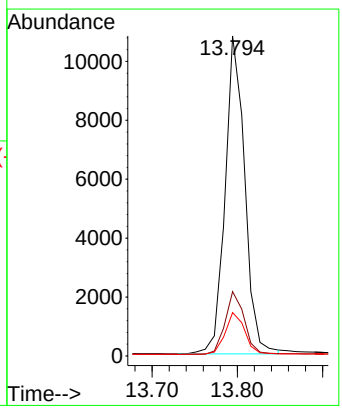


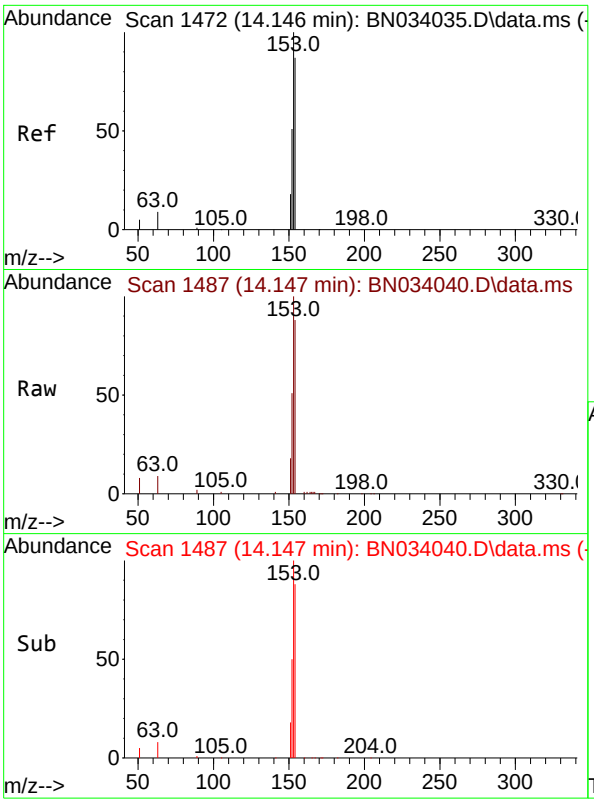


#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.794 min Scan# 1454
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:152 Resp: 17256

Ion	Ratio	Lower	Upper
152	100		
151	19.2	15.6	23.4
153	13.1	10.3	15.5



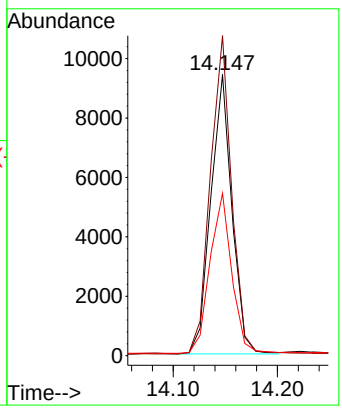


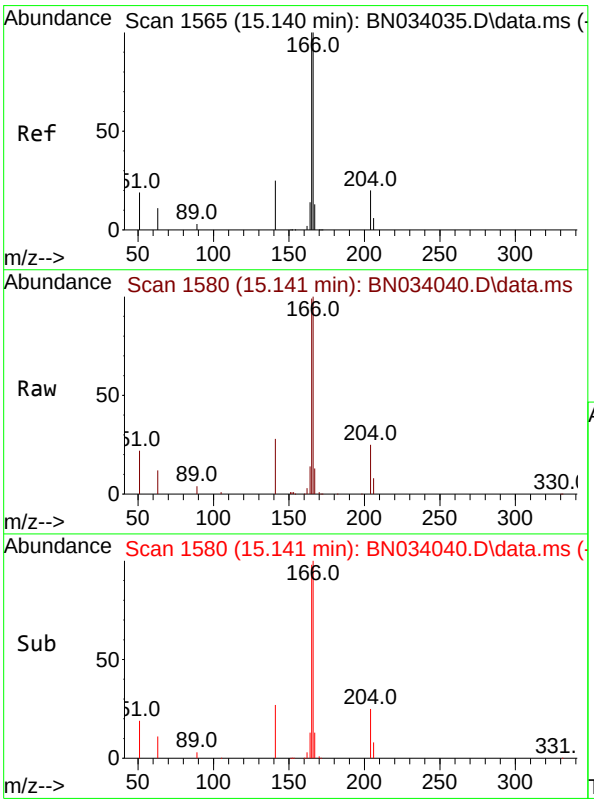
#17
Acenaphthene
Concen: 0.397 ng
RT: 14.147 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:154 Resp: 13226

Ion	Ratio	Lower	Upper
154	100		
153	114.7	91.6	137.4
152	59.0	47.4	71.2

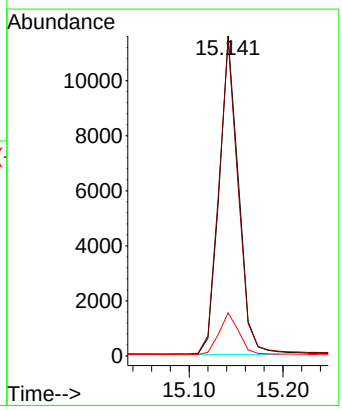


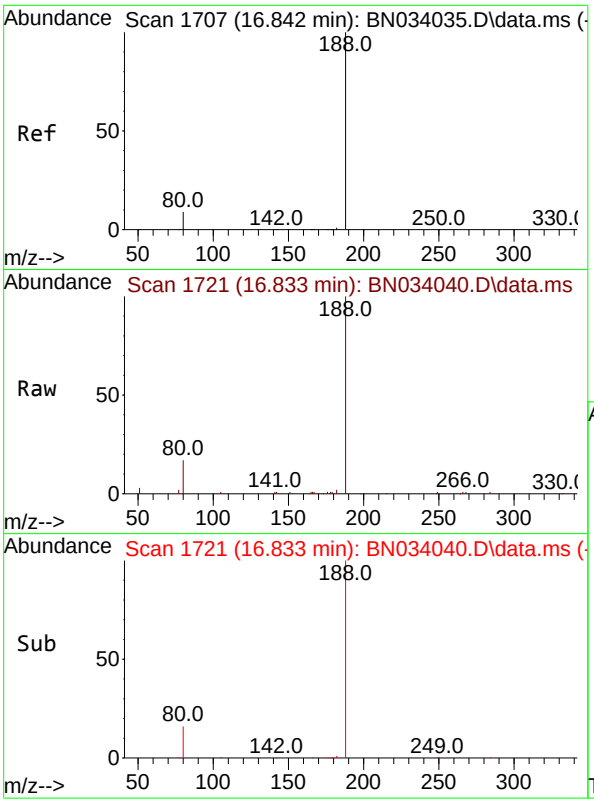


#18
Fluorene
Concen: 0.379 ng
RT: 15.141 min Scan# 1580
Delta R.T. 0.001 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:166 Resp: 16560

Ion	Ratio	Lower	Upper
166	100		
165	98.6	79.1	118.7
167	13.3	10.6	15.8



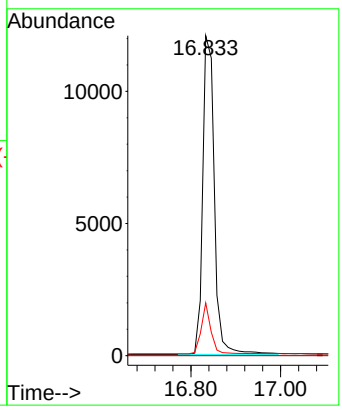


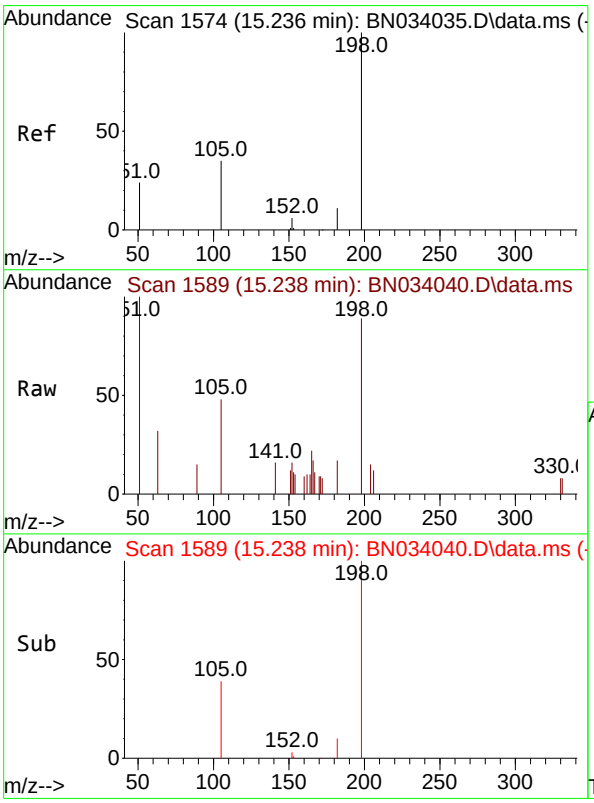
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.833 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:188 Resp: 21730

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	16.5	7.4	11.0#

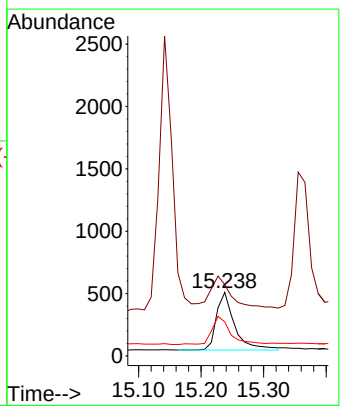


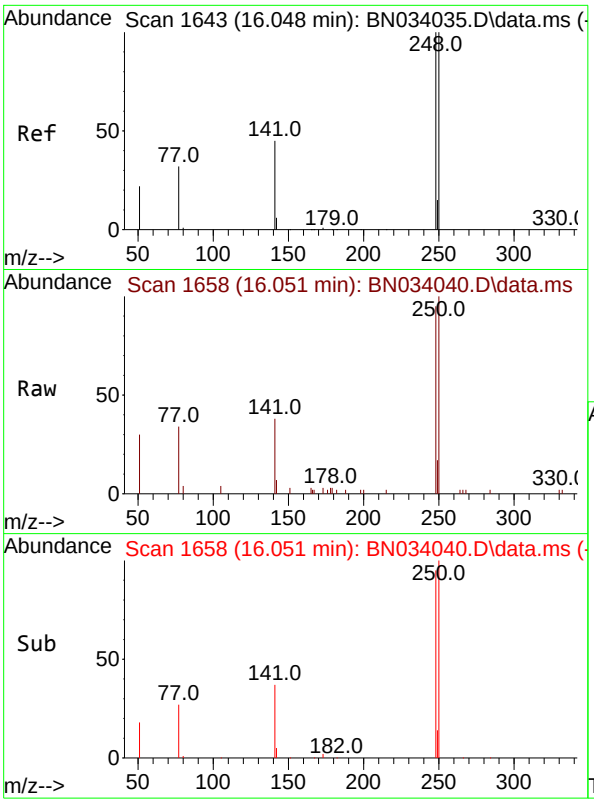


#20
4,6-Dinitro-2-methylphenol
Concen: 0.370 ng
RT: 15.238 min Scan# 1589
Delta R.T. 0.002 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:198 Resp: 936

Ion	Ratio	Lower	Upper
198	100		
51	112.4	106.4	159.6
105	53.6	38.5	57.7



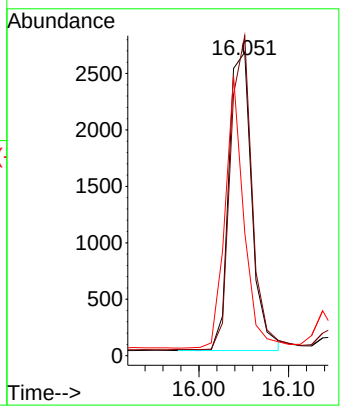


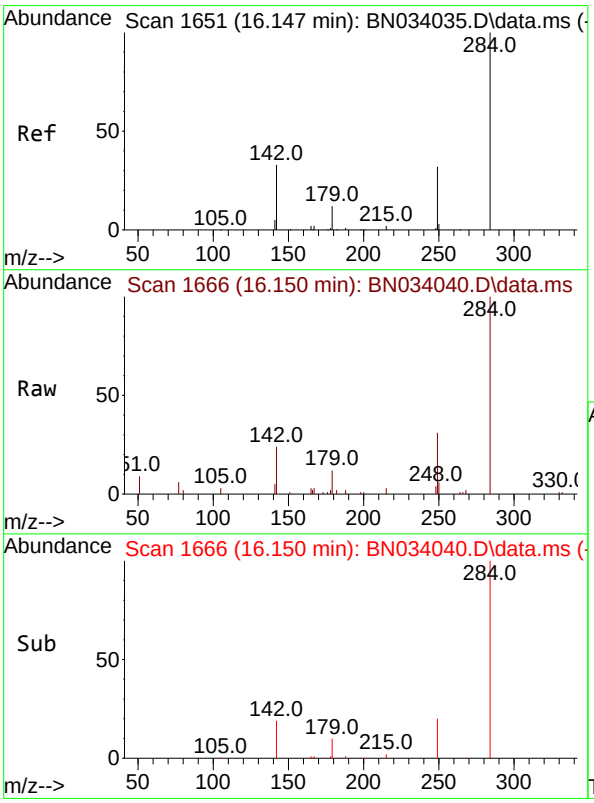
#21
4-Bromophenyl-phenylether
Concen: 0.386 ng
RT: 16.051 min Scan# 1
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:248 Resp: 4712

Ion	Ratio	Lower	Upper
248	100		
250	105.5	80.5	120.7
141	40.6	37.1	55.7

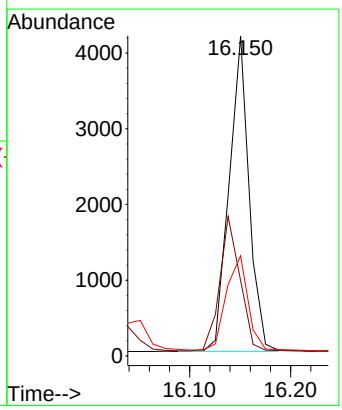


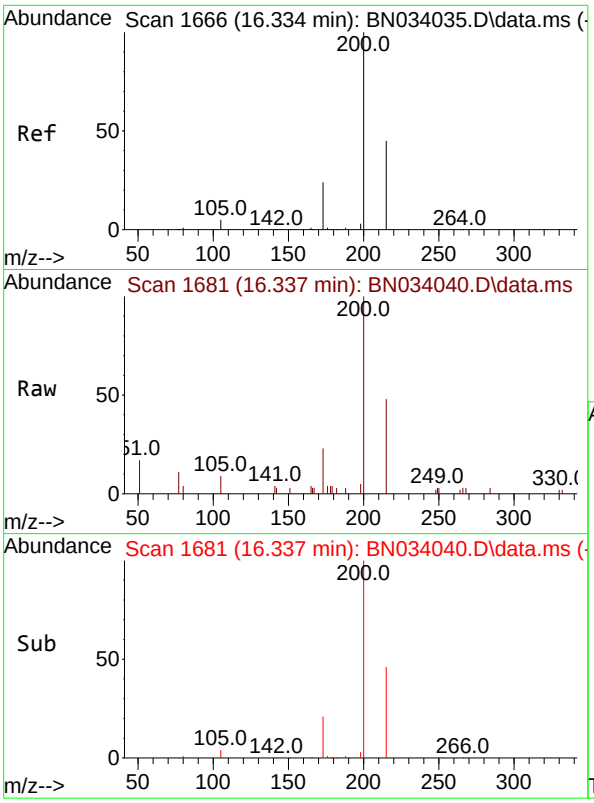


#22
Hexachlorobenzene
Concen: 0.419 ng
RT: 16.150 min Scan# 1666
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:284 Resp: 5733

Ion	Ratio	Lower	Upper
284	100		
142	43.0	34.5	51.7
249	32.2	25.8	38.6



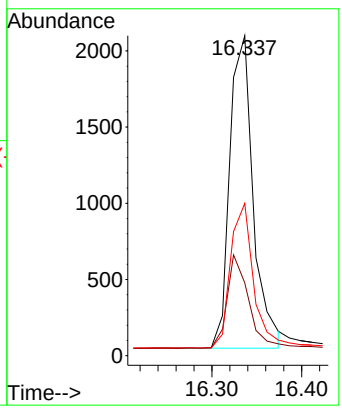


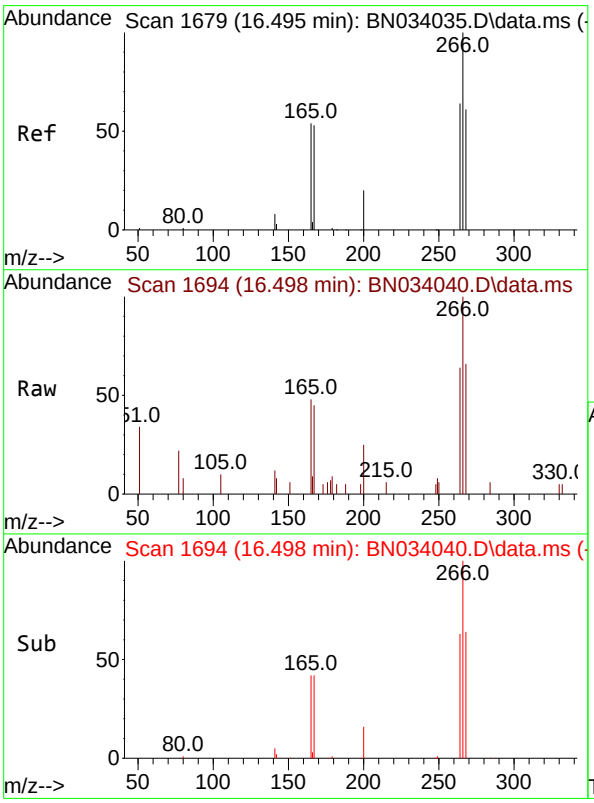
#23
Atrazine
Concen: 0.367 ng
RT: 16.337 min Scan# 1
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:200 Resp: 3719

Ion	Ratio	Lower	Upper
200	100		
173	22.8	20.1	30.1
215	47.6	37.0	55.6

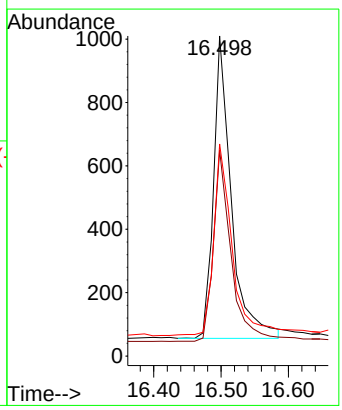


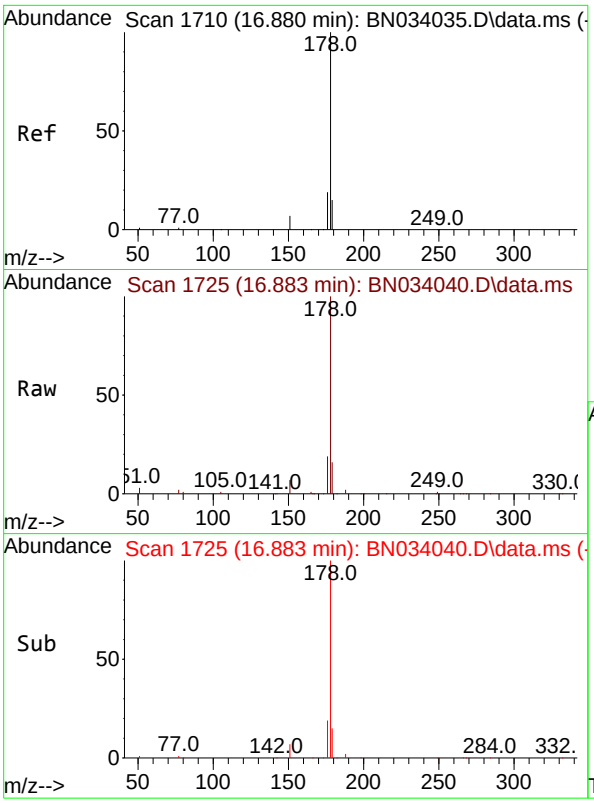


#24
Pentachlorophenol
Concen: 0.386 ng
RT: 16.498 min Scan# 1694
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:266 Resp: 1746

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.2	75.2
268	65.8	51.0	76.4



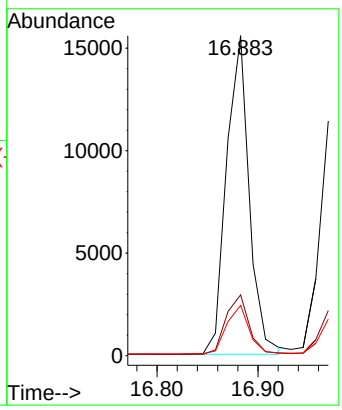


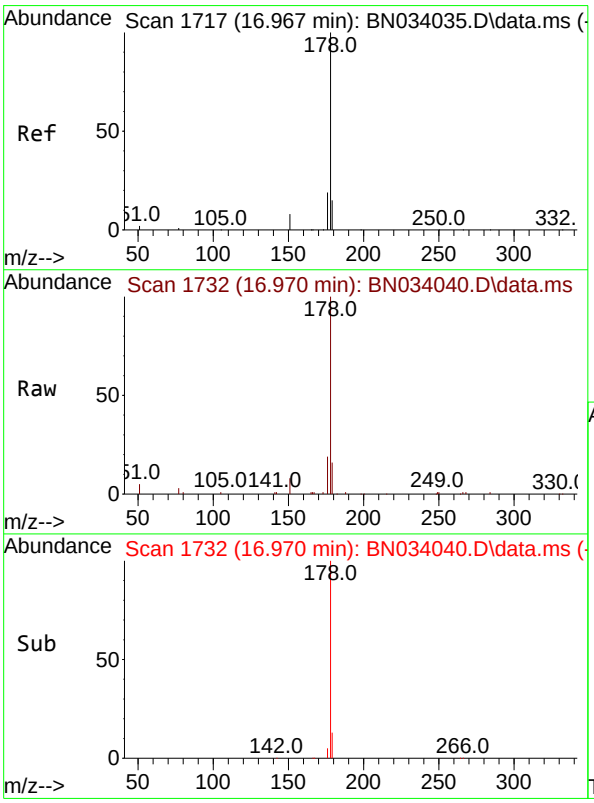
#25
Phenanthrene
Concen: 0.389 ng
RT: 16.883 min Scan# 1
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:178 Resp: 24279

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.3	12.1	18.1

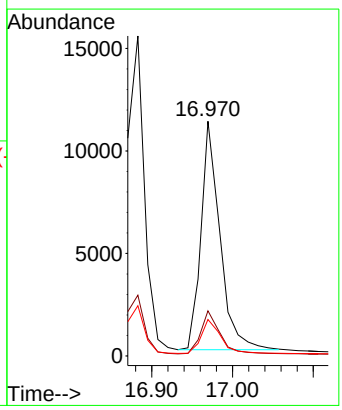


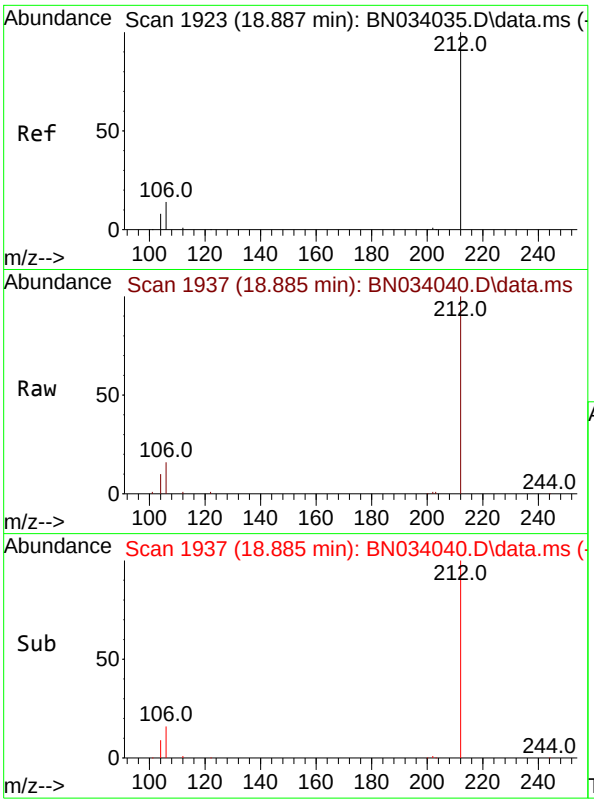


#26
Anthracene
Concen: 0.359 ng
RT: 16.970 min Scan# 1732
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:178 Resp: 18267

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.0	22.6
179	15.2	12.2	18.4



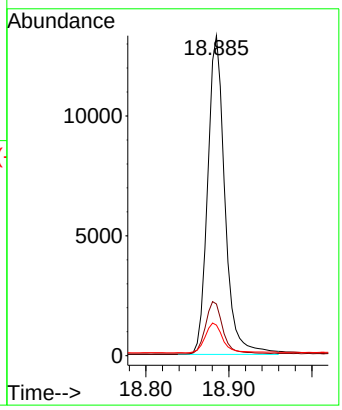


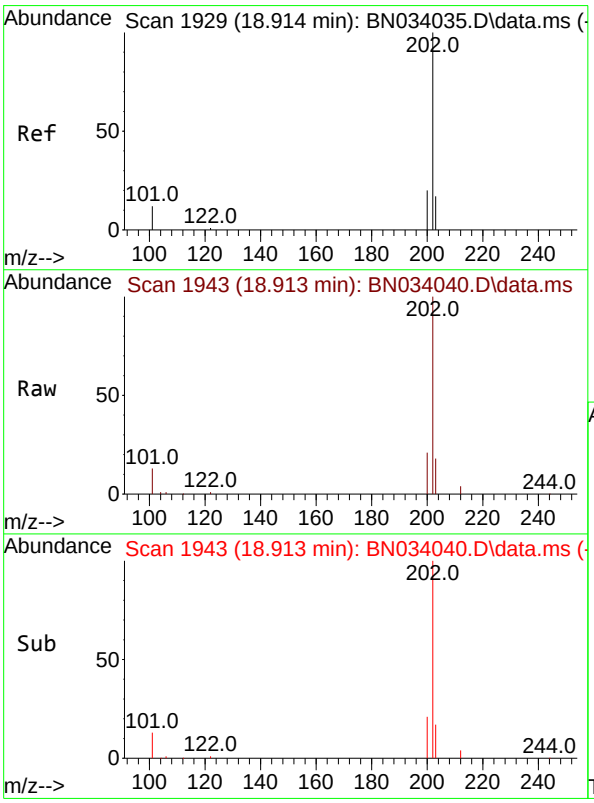
#27
Fluoranthene-d10
Concen: 0.350 ng
RT: 18.885 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:212 Resp: 19215

Ion	Ratio	Lower	Upper
212	100		
106	16.8	13.4	20.2
104	9.6	7.8	11.6

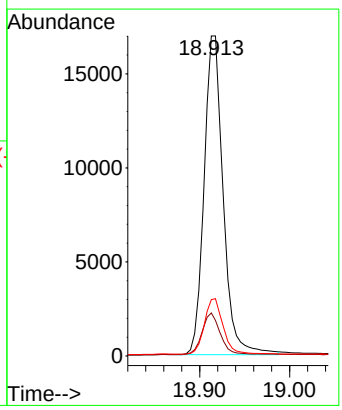


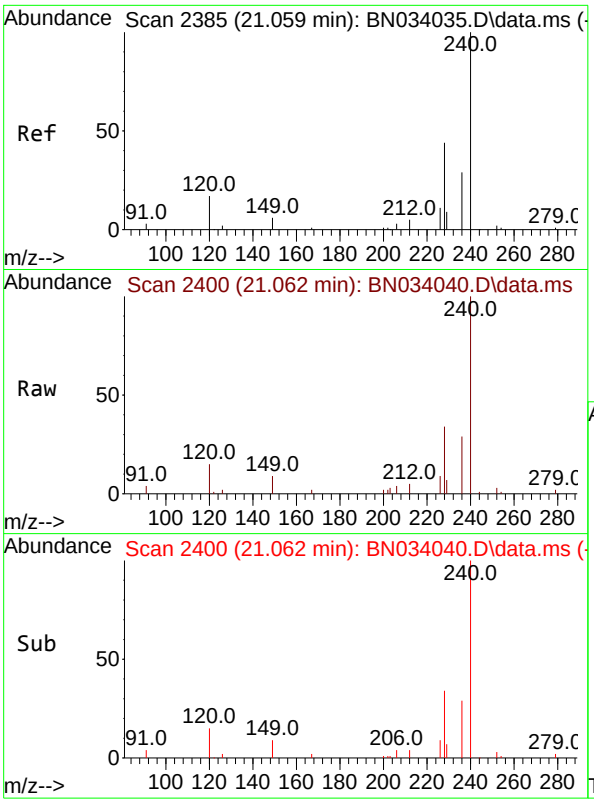


#28
Fluoranthene
Concen: 0.347 ng
RT: 18.913 min Scan# 1943
Delta R.T. -0.002 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:202 Resp: 25109

Ion	Ratio	Lower	Upper
202	100		
101	13.0	10.1	15.1
203	17.1	13.6	20.4



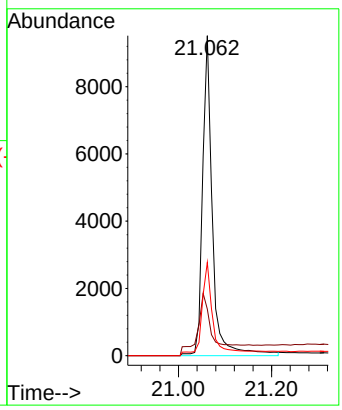


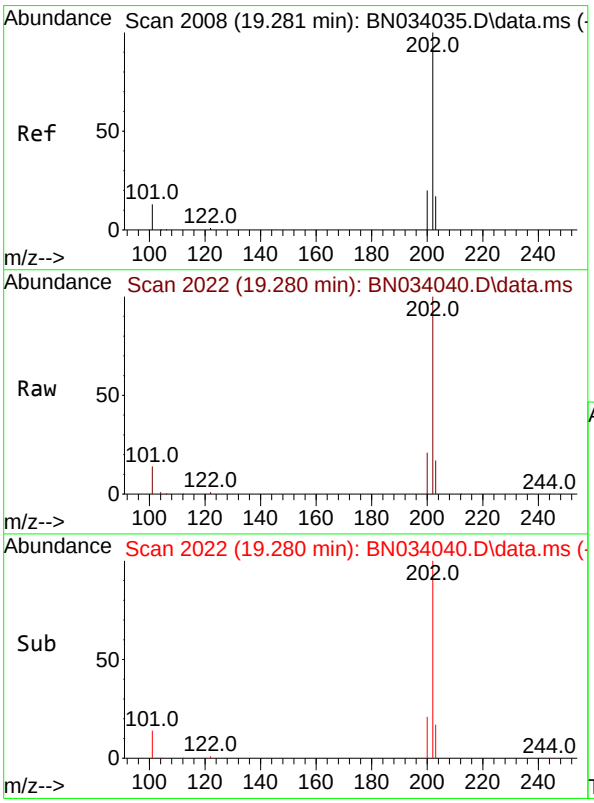
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.062 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:240 Resp: 13486

Ion	Ratio	Lower	Upper
240	100		
120	14.6	13.5	20.3
236	29.1	23.4	35.0

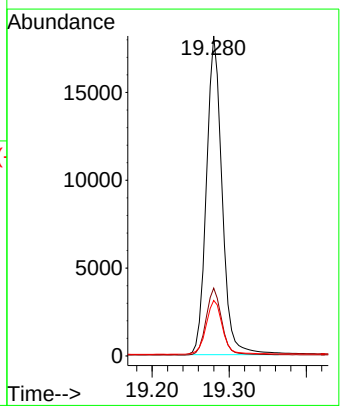


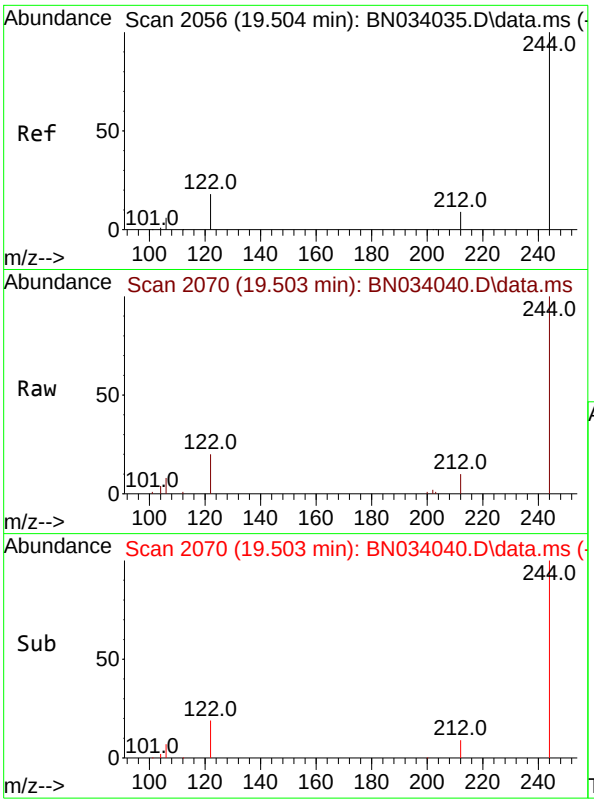


#30
Pyrene
Concen: 0.450 ng
RT: 19.280 min Scan# 2022
Delta R.T. -0.002 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:202 Resp: 25618

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	25.0
203	17.7	14.3	21.5



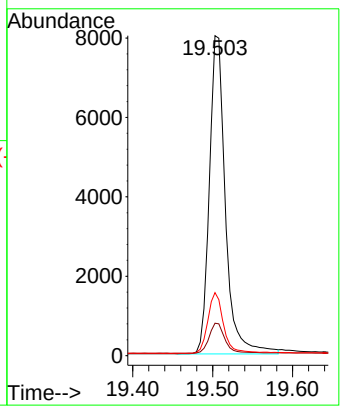


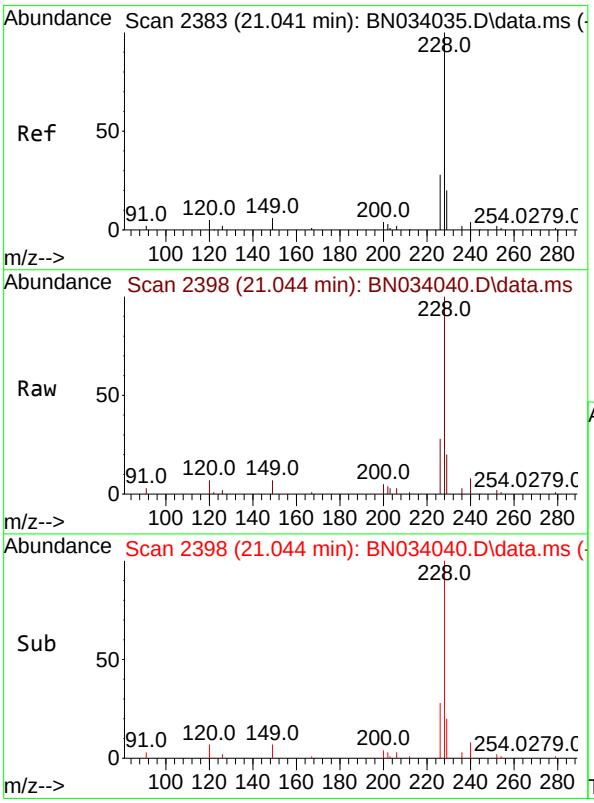
#31
Terphenyl-d14
Concen: 0.415 ng
RT: 19.503 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:244 Resp: 11191

Ion	Ratio	Lower	Upper
244	100		
212	10.2	7.8	11.6
122	19.7	14.8	22.2

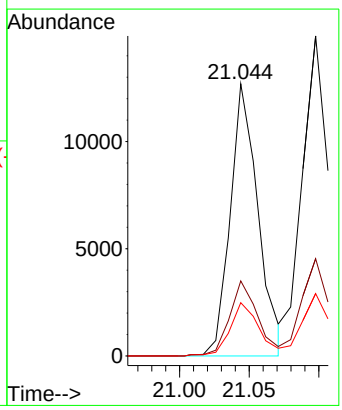


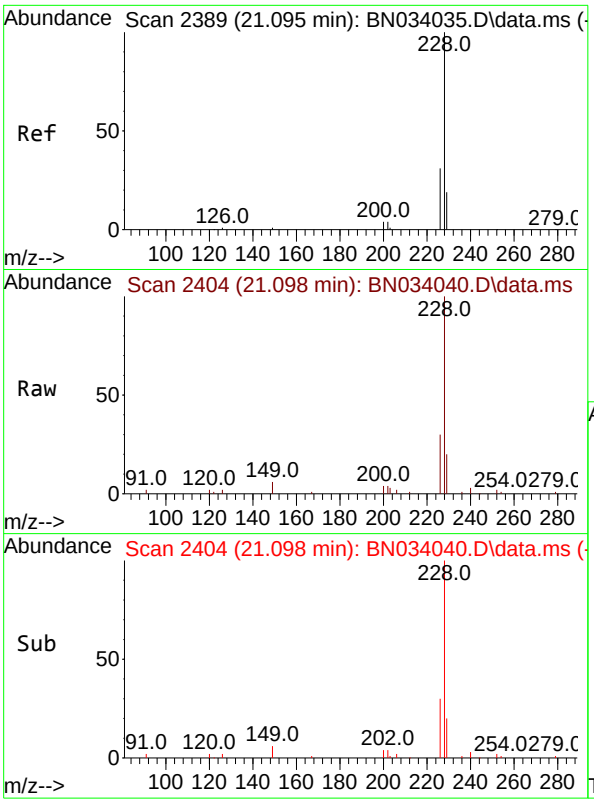


#32
Benzo(a)anthracene
Concen: 0.370 ng
RT: 21.044 min Scan# 2398
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:228 Resp: 15786

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.3	33.5
229	19.5	15.7	23.5



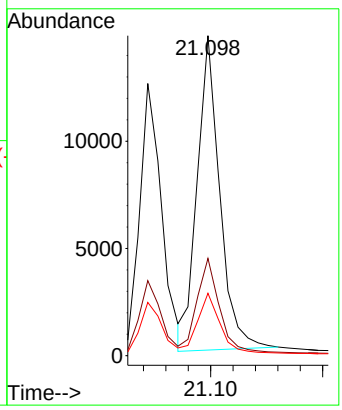


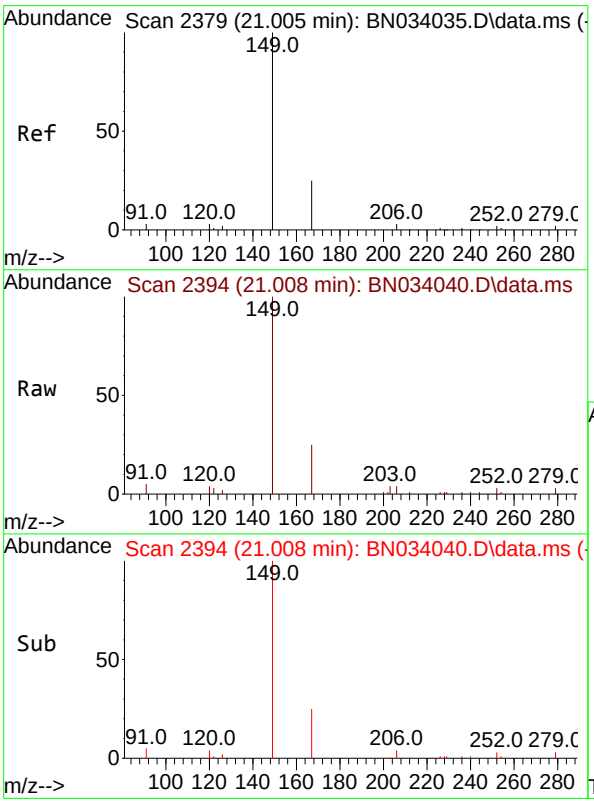
#33
Chrysene
Concen: 0.403 ng
RT: 21.098 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:228 Resp: 20535

Ion	Ratio	Lower	Upper
228	100		
226	30.4	24.6	37.0
229	19.5	15.5	23.3

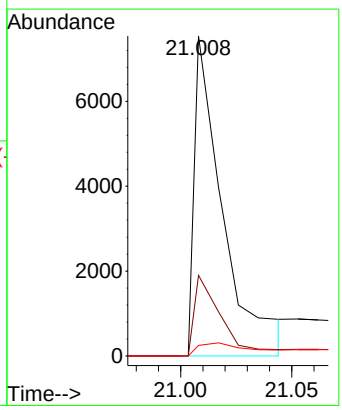


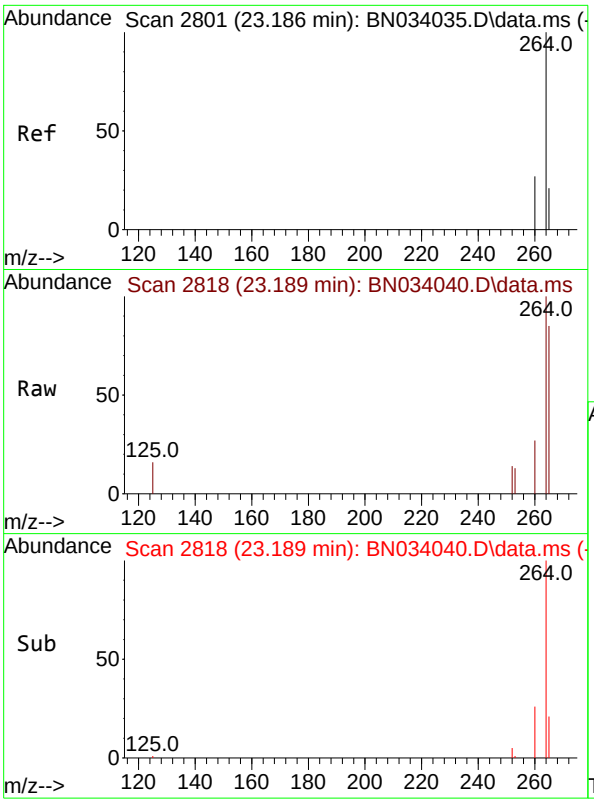


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.368 ng
RT: 21.008 min Scan# 2394
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:149 Resp: 6532

Ion	Ratio	Lower	Upper
149	100		
167	24.2	19.9	29.9
279	7.2	4.6	6.8#



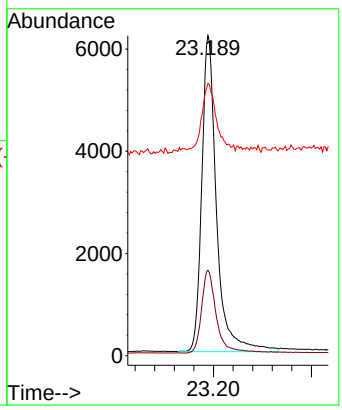


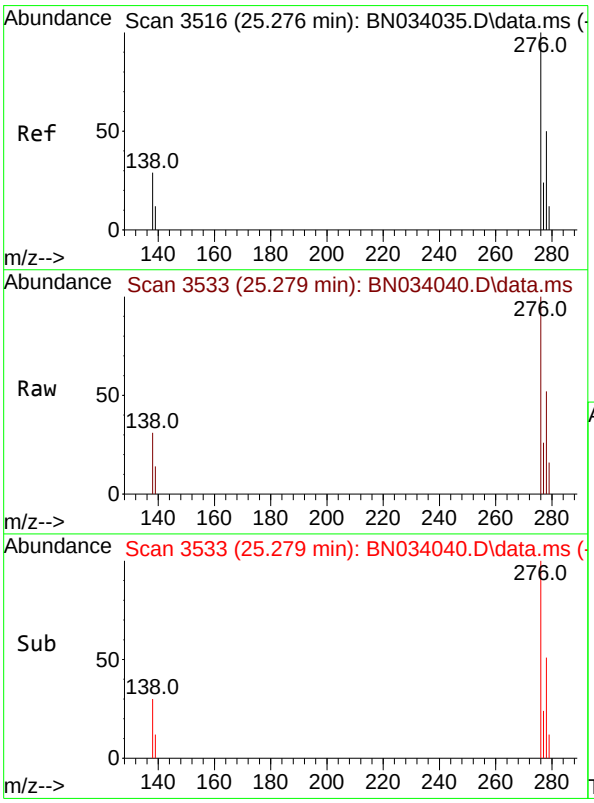
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.189 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:264 Resp: 12946

Ion	Ratio	Lower	Upper
264	100		
260	26.7	21.7	32.5
265	85.1	52.1	78.1#

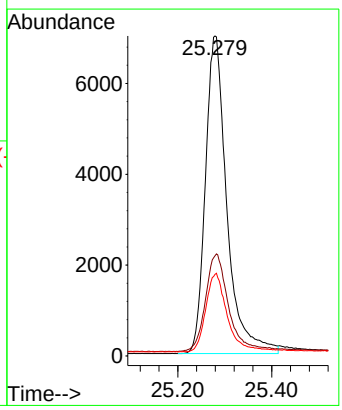


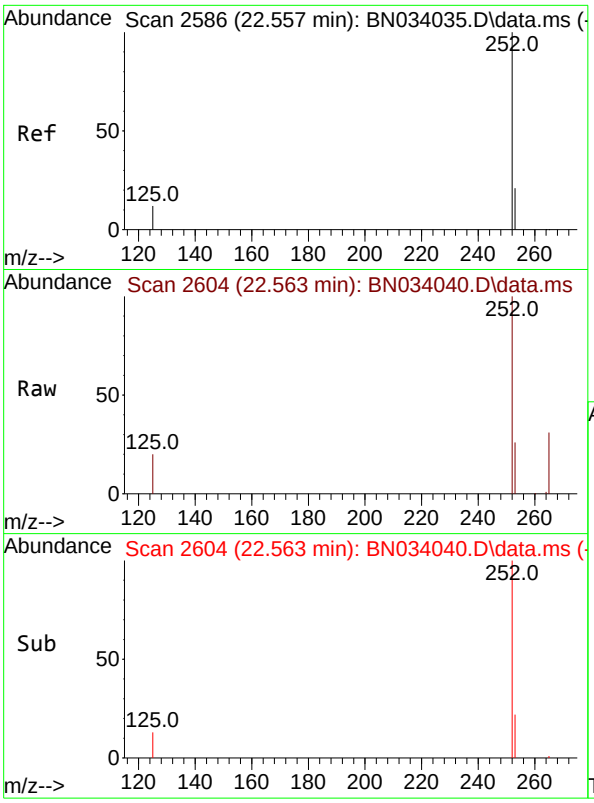


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.402 ng
RT: 25.279 min Scan# 3533
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:276 Resp: 22278

Ion	Ratio	Lower	Upper
276	100		
138	33.0	25.9	38.9
277	24.9	19.7	29.5



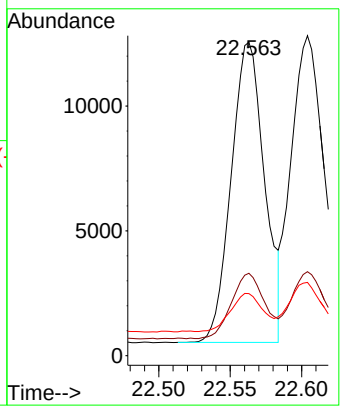


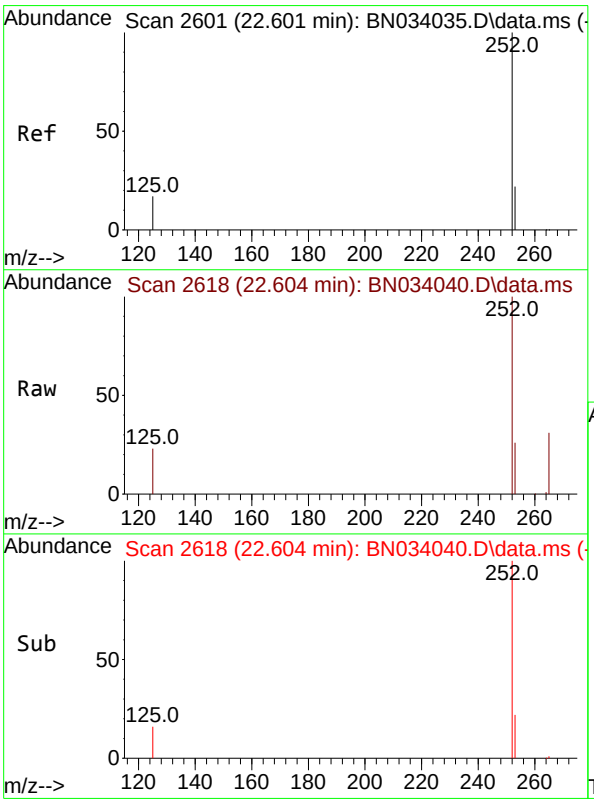
#37
Benzo(b)fluoranthene
Concen: 0.386 ng
RT: 22.563 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:252 Resp: 19554

Ion	Ratio	Lower	Upper
252	100		
253	26.3	19.6	29.4
125	19.8	13.8	20.8

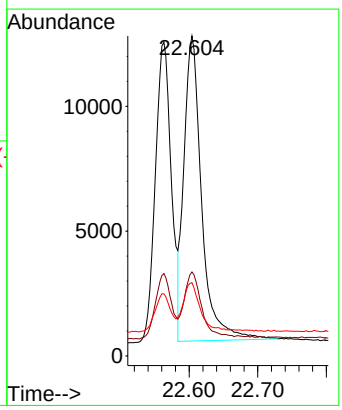


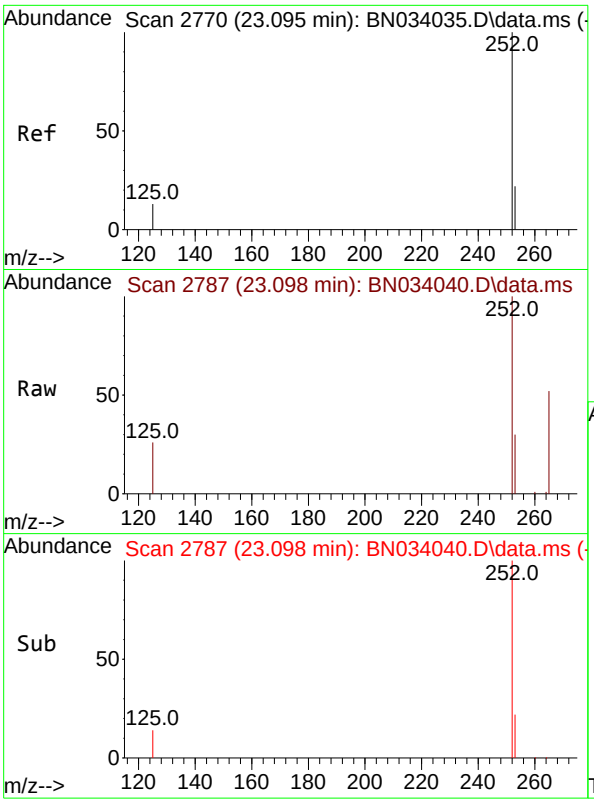


#38
Benzo(k)fluoranthene
Concen: 0.411 ng
RT: 22.604 min Scan# 2618
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:252 Resp: 21903

Ion	Ratio	Lower	Upper
252	100		
253	26.3	20.1	30.1
125	22.9	16.8	25.2



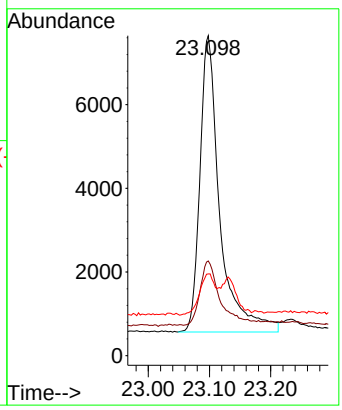


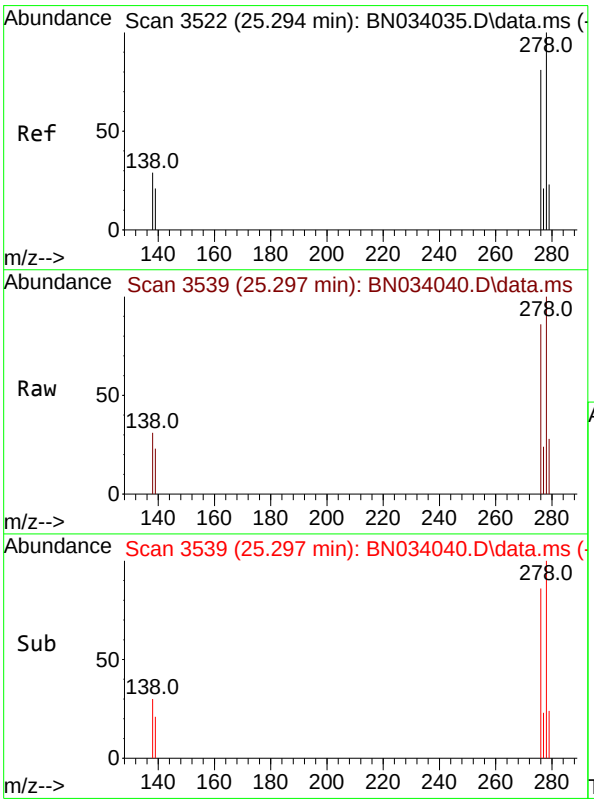
#39
Benzo(a)pyrene
Concen: 0.387 ng
RT: 23.098 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:252 Resp: 15991

Ion	Ratio	Lower	Upper
252	100		
253	29.6	21.8	32.8
125	25.6	17.5	26.3

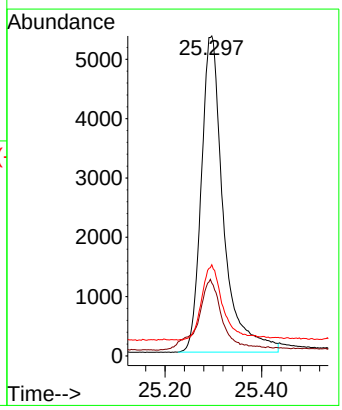


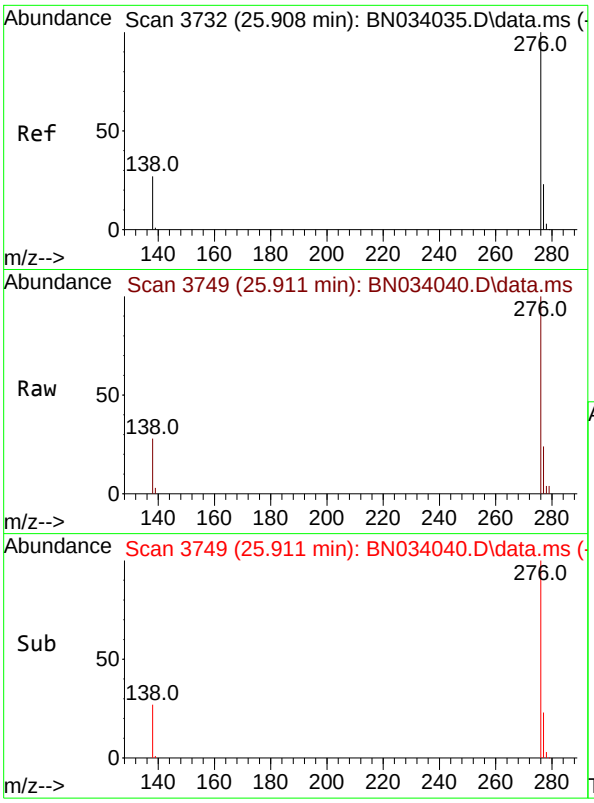


#40
Dibenzo(a,h)anthracene
Concen: 0.395 ng
RT: 25.297 min Scan# 3539
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Tgt Ion:278 Resp: 17016

Ion	Ratio	Lower	Upper
278	100		
139	22.8	17.8	26.8
279	28.5	21.0	31.6



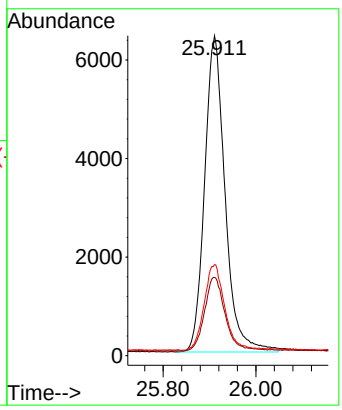


#41
Benzo(g,h,i)perylene
Concen: 0.406 ng
RT: 25.911 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN034040.D
Acq: 18 Sep 2024 18:01

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Tgt Ion:276 Resp: 19666

Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.3	28.9
138	28.5	22.6	34.0



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034040.D
Acq On : 18 Sep 2024 18:01
Operator : JU/RC
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Quant Time: Sep 18 18:29:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	109	0.00
2		1,4-Dioxane	0.500	0.526	-5.2	113	0.00
3		n-Nitrosodimethylamine	0.569	0.568	0.2	112	0.00
4	S	2-Fluorophenol	1.135	1.255	-10.6	127	0.00
5	S	Phenol-d6	1.320	1.341	-1.6	122	0.00
6		bis(2-Chloroethyl)ether	1.168	1.110	5.0	109	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	106	0.00
8	S	Nitrobenzene-d5	0.306	0.273	10.8	104	0.00
9		Naphthalene	1.098	1.073	2.3	108	0.00
10		Hexachlorobutadiene	0.207	0.210	-1.4	109	0.00
11	SURR	2-Methylnaphthalene-d10	0.591	0.547	7.4	104	0.00
12		2-Methylnaphthalene	0.714	0.662	7.3	104	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	98	0.00
14	S	2,4,6-Tribromophenol	0.181	0.171	5.5	108	0.00
15	S	2-Fluorobiphenyl	1.627	1.646	-1.2	103	0.00
16		Acenaphthylene	1.712	1.592	7.0	102	0.00
17		Acenaphthene	1.228	1.220	0.7	102	0.00
18		Fluorene	1.612	1.527	5.3	98	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	90	0.00
20		4,6-Dinitro-2-methylphenol	0.057	0.043	24.6	83	0.00
21		4-Bromophenyl-phenylether	0.225	0.217	3.6	91	0.00
22		Hexachlorobenzene	0.252	0.264	-4.8	95	0.00
23		Atrazine	0.186	0.171	8.1	90	0.00
24		Pentachlorophenol	0.083	0.080	3.6	103	0.00
25		Phenanthrene	1.149	1.117	2.8	90	0.00
26		Anthracene	0.937	0.841	10.2	89	0.00
27	SURR	Fluoranthene-d10	1.009	0.884	12.4	83	0.00
28		Fluoranthene	1.331	1.155	13.2	82	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	73	0.00
30		Pyrene	1.688	1.900	-12.6	82	0.00
31	S	Terphenyl-d14	0.799	0.830	-3.9	76	0.00
32		Benzo(a)anthracene	1.265	1.171	7.4	72	0.00
33		Chrysene	1.510	1.523	-0.9	73	0.00
34		Bis(2-ethylhexyl)phthalate	0.527	0.484	8.2	64	0.00
35	I	Perylene-d12	1.000	1.000	0.0	67	0.00
36		Indeno(1,2,3-cd)pyrene	1.714	1.721	-0.4	65	0.00
37		Benzo(b)fluoranthene	1.567	1.510	3.6	69	0.00
38		Benzo(k)fluoranthene	1.645	1.692	-2.9	69	0.00
39	C	Benzo(a)pyrene	1.277	1.235	3.3	69	0.00
40		Dibenzo(a,h)anthracene	1.331	1.314	1.3	65	0.00
41		Benzo(g,h,i)perylene	1.495	1.519	-1.6	67	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034040.D
Acq On : 18 Sep 2024 18:01
Operator : JU/RC
Sample : SSTDICV0.4
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
ICVBN091924

Quant Time: Sep 18 18:29:56 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	109	0.00
2		1,4-Dioxane	0.400	0.420	-5.0	113	0.00
3		n-Nitrosodimethylamine	0.400	0.399	0.3	112	0.00
4	S	2-Fluorophenol	0.400	0.442	-10.5	127	0.00
5	S	Phenol-d6	0.400	0.406	-1.5	122	0.00
6		bis(2-Chloroethyl)ether	0.400	0.380	5.0	109	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	106	0.00
8	S	Nitrobenzene-d5	0.400	0.357	10.8	104	0.00
9		Naphthalene	0.400	0.391	2.3	108	0.00
10		Hexachlorobutadiene	0.400	0.406	-1.5	109	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.370	7.5	104	0.00
12		2-Methylnaphthalene	0.400	0.371	7.3	104	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	98	0.00
14	S	2,4,6-Tribromophenol	0.400	0.377	5.8	108	0.00
15	S	2-Fluorobiphenyl	0.400	0.405	-1.3	103	0.00
16		Acenaphthylene	0.400	0.372	7.0	102	0.00
17		Acenaphthene	0.400	0.397	0.8	102	0.00
18		Fluorene	0.400	0.379	5.3	98	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	90	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.370	7.5	83	0.00
21		4-Bromophenyl-phenylether	0.400	0.386	3.5	91	0.00
22		Hexachlorobenzene	0.400	0.419	-4.7	95	0.00
23		Atrazine	0.400	0.367	8.3	90	0.00
24		Pentachlorophenol	0.400	0.386	3.5	103	0.00
25		Phenanthrene	0.400	0.389	2.8	90	0.00
26		Anthracene	0.400	0.359	10.3	89	0.00
27	SURR	Fluoranthene-d10	0.400	0.350	12.5	83	0.00
28		Fluoranthene	0.400	0.347	13.3	82	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	73	0.00
30		Pyrene	0.400	0.450	-12.5	82	0.00
31	S	Terphenyl-d14	0.400	0.415	-3.7	76	0.00
32		Benzo(a)anthracene	0.400	0.370	7.5	72	0.00
33		Chrysene	0.400	0.403	-0.8	73	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.368	8.0	64	0.00
35	I	Perylene-d12	0.400	0.400	0.0	67	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.402	-0.5	65	0.00
37		Benzo(b)fluoranthene	0.400	0.386	3.5	69	0.00
38		Benzo(k)fluoranthene	0.400	0.411	-2.7	69	0.00
39	C	Benzo(a)pyrene	0.400	0.387	3.3	69	0.00
40		Dibenzo(a,h)anthracene	0.400	0.395	1.3	65	0.00
41		Benzo(g,h,i)perylene	0.400	0.406	-1.5	67	0.00

(#) = 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: CHEM02

Lab Code: CHEM Case No.: P3845 SAS No.: P3845 SDG No.: P3845

Instrument ID: BNA_N Calibration Date/Time: 09/19/2024 09:33

Lab File ID: BN034046.D Init. Calib. Date(s): 09/18/2024 09/18/2024

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 11:53 15:30

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

COMPOUND	RRF	RRF0.4	MIN RRF	%D	MAX%D
2-Methylnaphthalene-d10	0.591	0.561		-5.1	20.0
Fluoranthene-d10	1.009	0.960		-4.9	20.0
2-Fluorophenol	1.135	1.226		8.0	20.0
Phenol-d6	1.320	1.358		2.9	20.0
Nitrobenzene-d5	0.306	0.275		-10.1	20.0
2-Fluorobiphenyl	1.627	1.623		-0.2	20.0
4,6-Dinitro-2-methylphenol	0.057	0.046		-19.3	20.0
2,4,6-Tribromophenol	0.181	0.186		2.8	20.0
Pentachlorophenol	0.083	0.095		14.5	20.0
Terphenyl-d14	0.799	0.858		7.4	20.0

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034046.D
Acq On : 19 Sep 2024 09:33
Operator : JU/RC
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 19 10:58:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

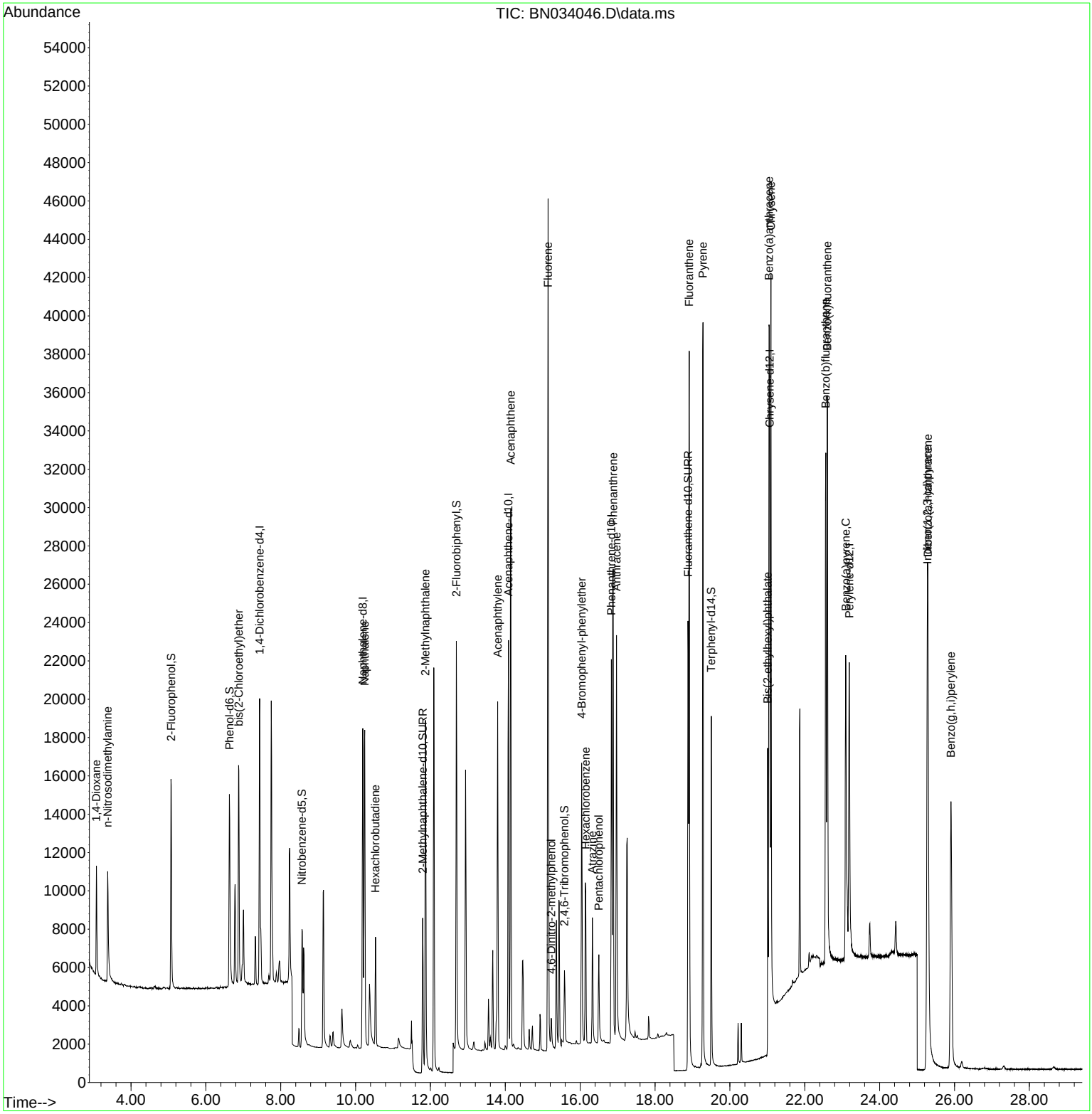
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.438	152	7320	0.400	ng		0.00
7) Naphthalene-d8	10.191	136	21524	0.400	ng		0.00
13) Acenaphthene-d10	14.083	164	11978	0.400	ng		0.00
19) Phenanthrene-d10	16.833	188	26692	0.400	ng	#	0.00
29) Chrysene-d12	21.062	240	20522	0.400	ng	#	0.00
35) Perylene-d12	23.189	264	20864	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.076	112	8977	0.432	ng		0.00
5) Phenol-d6	6.629	99	9942	0.411	ng		0.00
8) Nitrobenzene-d5	8.568	82	5912	0.359	ng		0.00
11) 2-Methylnaphthalene-d10	11.791	152	12069	0.380	ng		0.00
14) 2,4,6-Tribromophenol	15.580	330	2226	0.410	ng		0.00
15) 2-Fluorobiphenyl	12.693	172	19445	0.399	ng		0.00
27) Fluoranthene-d10	18.880	212	25616	0.380	ng		0.00
31) Terphenyl-d14	19.503	244	17600	0.429	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.075	88	3596	0.393	ng		92
3) n-Nitrosodimethylamine	3.379	42	4063	0.390	ng	#	97
6) bis(2-Chloroethyl)ether	6.882	93	8154	0.381	ng		99
9) Naphthalene	10.244	128	22814	0.386	ng		99
10) Hexachlorobutadiene	10.532	225	4385	0.394	ng	#	99
12) 2-Methylnaphthalene	11.867	142	14481	0.377	ng		99
16) Acenaphthylene	13.795	152	19206	0.375	ng		100
17) Acenaphthene	14.147	154	14449	0.393	ng		100
18) Fluorene	15.142	166	18879	0.391	ng		100
20) 4,6-Dinitro-2-methylph...	15.227	198	1226	0.385	ng	#	79
21) 4-Bromophenyl-phenylether	16.039	248	5730	0.382	ng	#	77
22) Hexachlorobenzene	16.150	284	6719	0.399	ng		99
23) Atrazine	16.324	200	5445	0.438	ng	#	96
24) Pentachlorophenol	16.498	266	2537	0.456	ng		100
25) Phenanthrene	16.883	178	29737	0.388	ng		100
26) Anthracene	16.970	178	23159	0.370	ng		99
28) Fluoranthene	18.913	202	34065	0.384	ng		100
30) Pyrene	19.280	202	35629	0.411	ng		100
32) Benzo(a)anthracene	21.044	228	25219	0.388	ng		99
33) Chrysene	21.098	228	31694	0.409	ng		99
34) Bis(2-ethylhexyl)phtha...	21.008	149	8997	0.333	ng		99
36) Indeno(1,2,3-cd)pyrene	25.273	276	33340	0.373	ng		100
37) Benzo(b)fluoranthene	22.560	252	31132	0.381	ng		99
38) Benzo(k)fluoranthene	22.601	252	35099	0.409	ng		99
39) Benzo(a)pyrene	23.095	252	25374	0.381	ng		98
40) Dibenzo(a,h)anthracene	25.291	278	25266	0.364	ng		99
41) Benzo(g,h,i)perylene	25.905	276	27814	0.357	ng		100

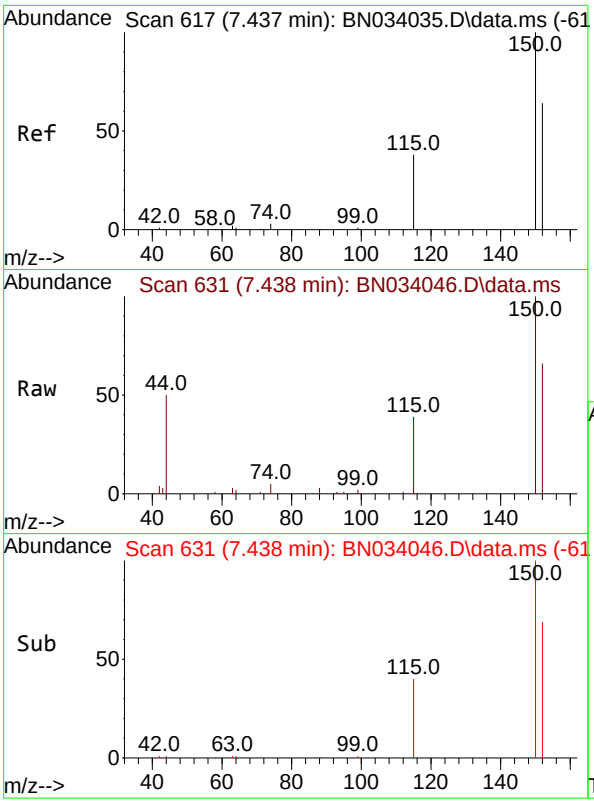
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034046.D
Acq On : 19 Sep 2024 09:33
Operator : JU/RC
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Quant Time: Sep 19 10:58:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



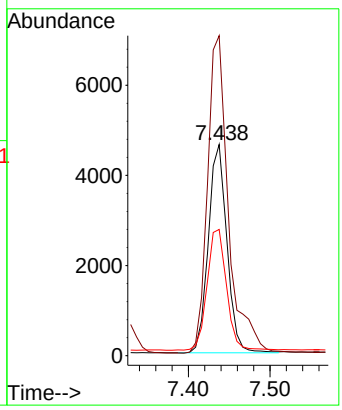


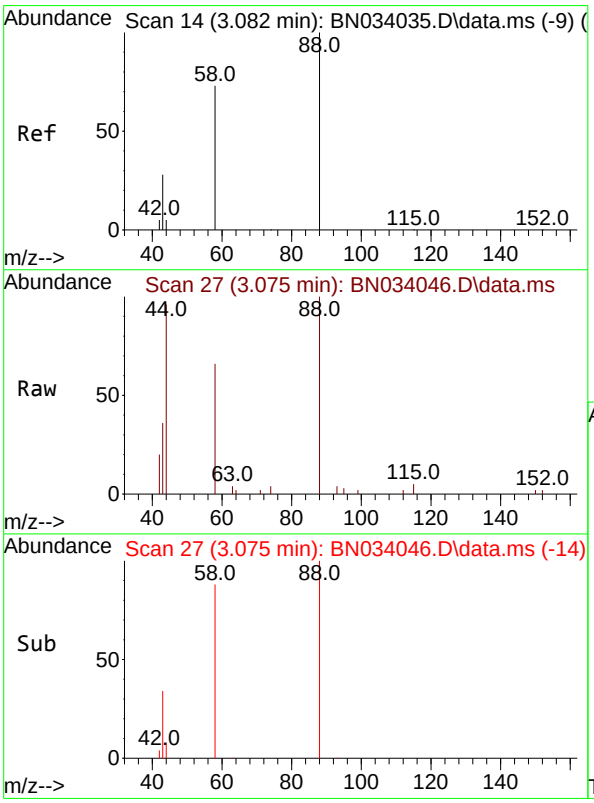
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.438 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 7320

Ion	Ratio	Lower	Upper
152	100		
150	151.5	124.6	187.0
115	59.8	50.0	75.0

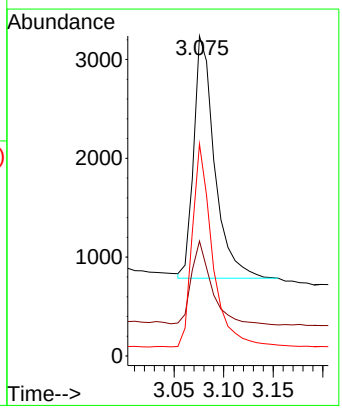


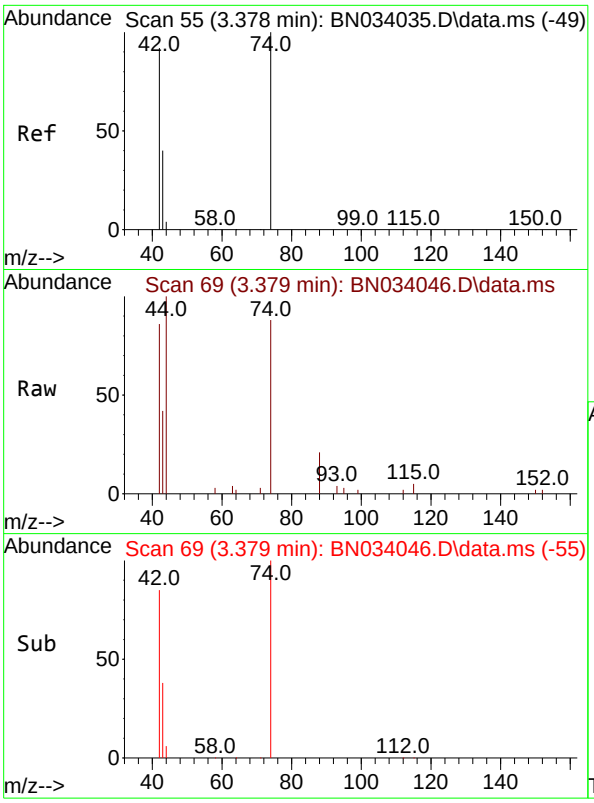


#2
1,4-Dioxane
Concen: 0.393 ng
RT: 3.075 min Scan# 27
Delta R.T. -0.006 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion: 88 Resp: 3596

Ion	Ratio	Lower	Upper
88	100		
43	34.0	25.8	38.8
58	81.5	58.8	88.2



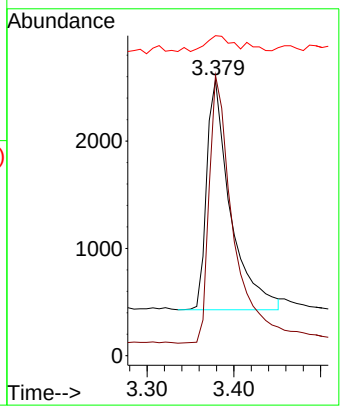


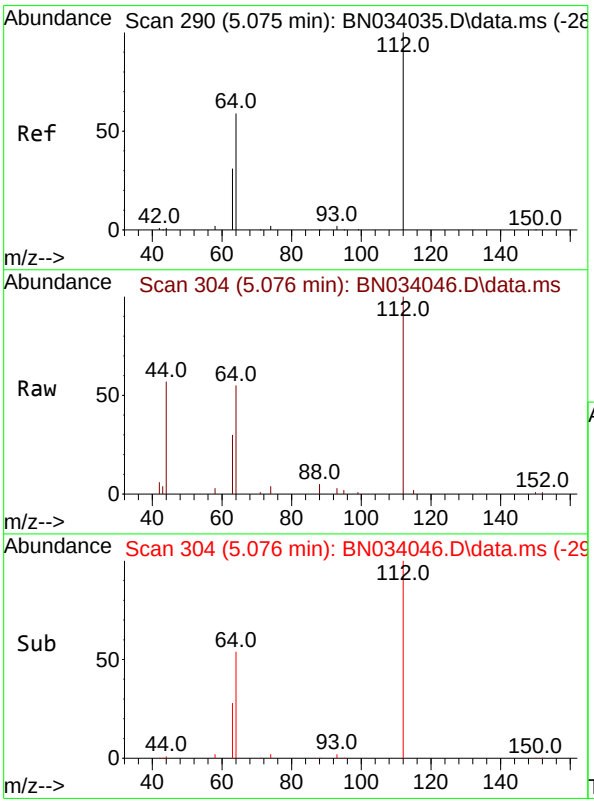
#3
n-Nitrosodimethylamine
Concen: 0.390 ng
RT: 3.379 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 42 Resp: 4063

Ion	Ratio	Lower	Upper
42	100		
74	117.6	94.6	142.0
44	7.6	12.4	18.6#

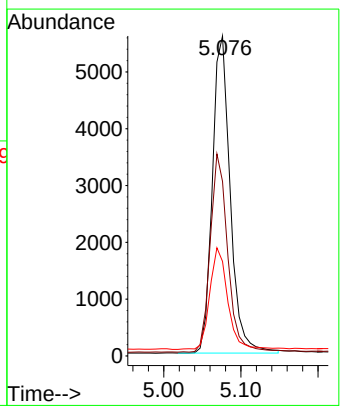


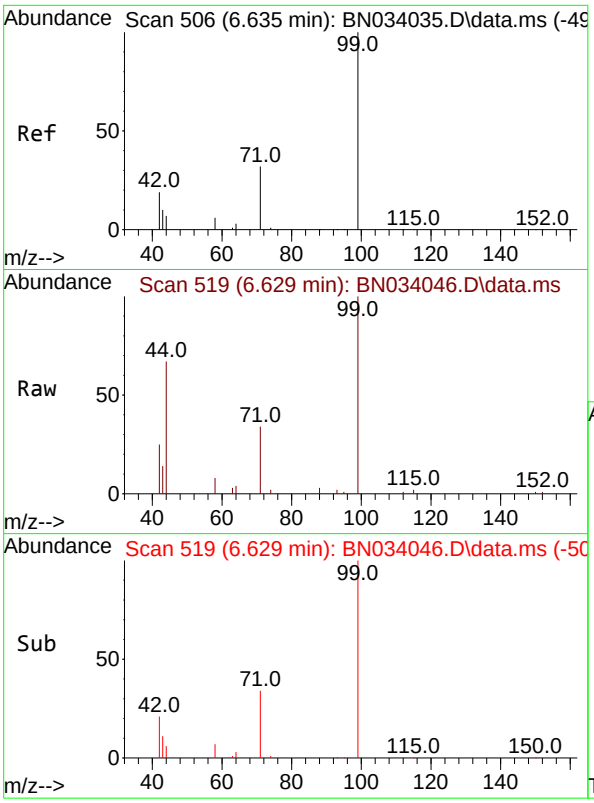


#4
2-Fluorophenol
Concen: 0.432 ng
RT: 5.076 min Scan# 304
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:112 Resp: 8977

Ion	Ratio	Lower	Upper
112	100		
64	61.3	48.6	72.8
63	32.0	25.6	38.4



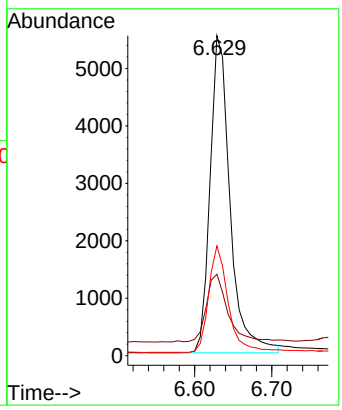


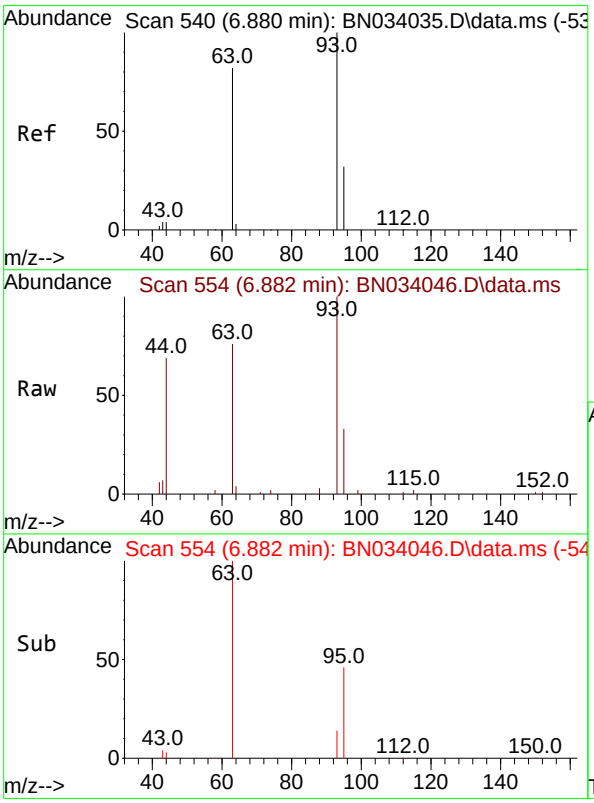
#5
Phenol-d6
Concen: 0.411 ng
RT: 6.629 min Scan# 5
Delta R.T. -0.006 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion: 99 Resp: 9942

Ion	Ratio	Lower	Upper
99	100		
42	23.0	17.8	26.8
71	32.6	26.2	39.2

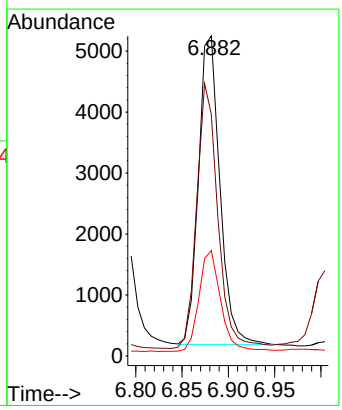


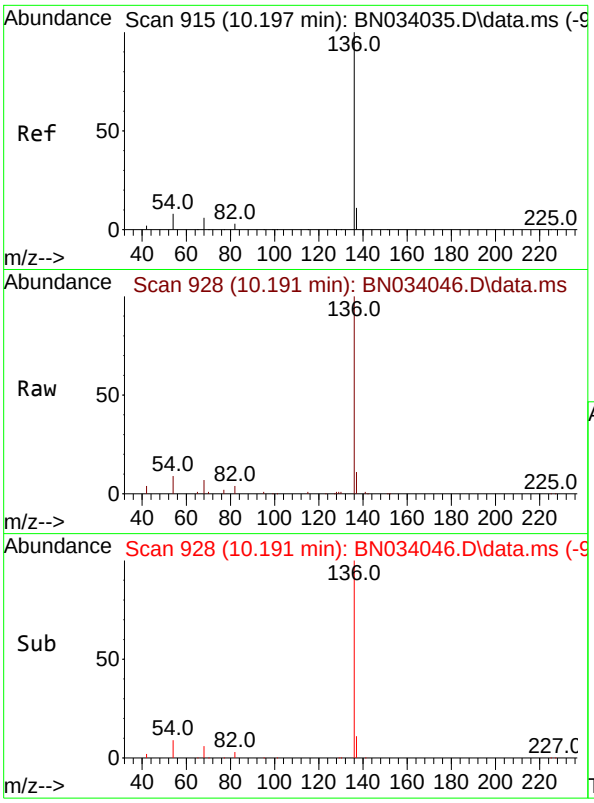


#6
bis(2-Chloroethyl)ether
Concen: 0.381 ng
RT: 6.882 min Scan# 554
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion: 93 Resp: 8154

Ion	Ratio	Lower	Upper
93	100		
63	84.9	67.3	100.9
95	33.0	26.8	40.2



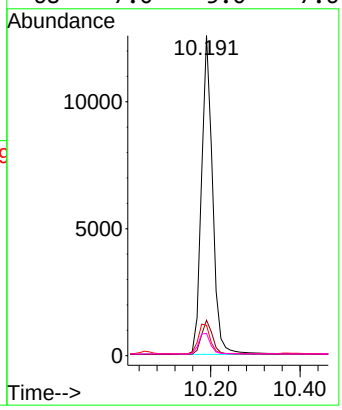


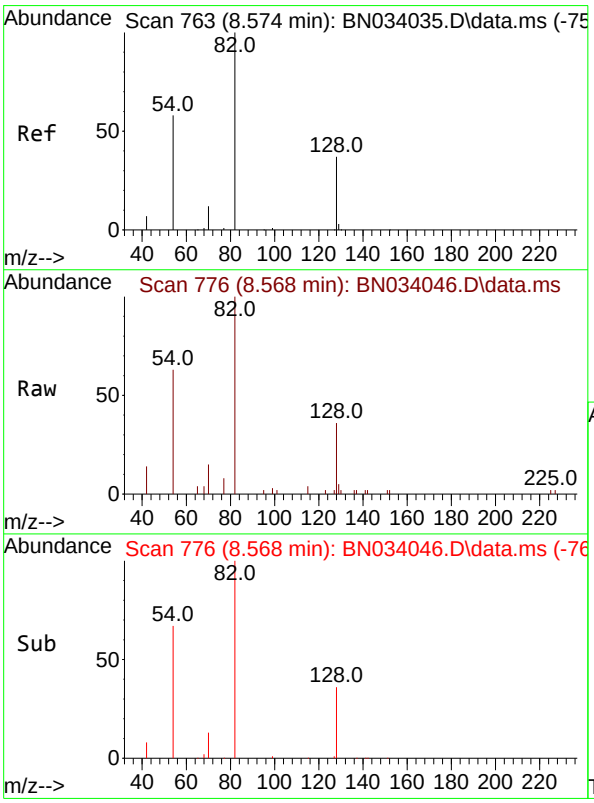
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.191 min Scan# 9
Delta R.T. -0.006 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:136 Resp: 21524

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	9.5	6.8	10.2
68	7.0	5.0	7.6

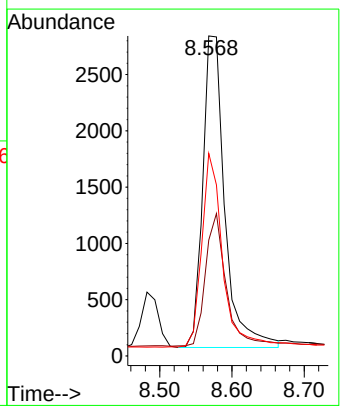


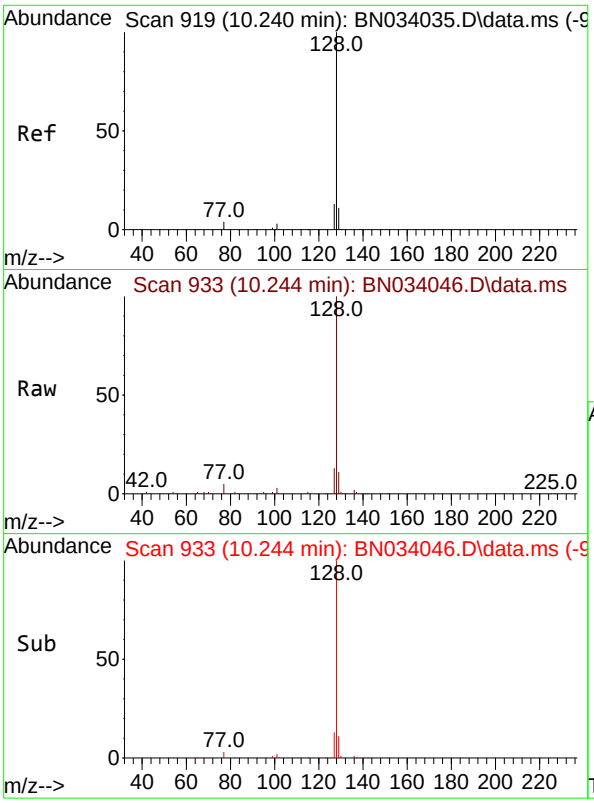


#8
Nitrobenzene-d5
Concen: 0.359 ng
RT: 8.568 min Scan# 776
Delta R.T. -0.006 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion: 82 Resp: 5912

Ion	Ratio	Lower	Upper
82	100		
128	36.2	31.4	47.2
54	63.3	47.4	71.0



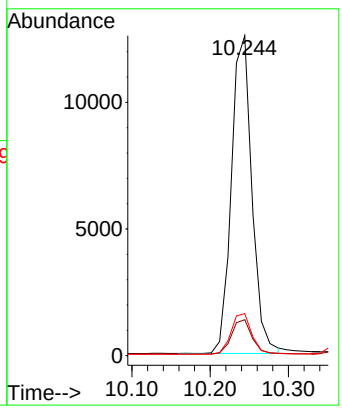


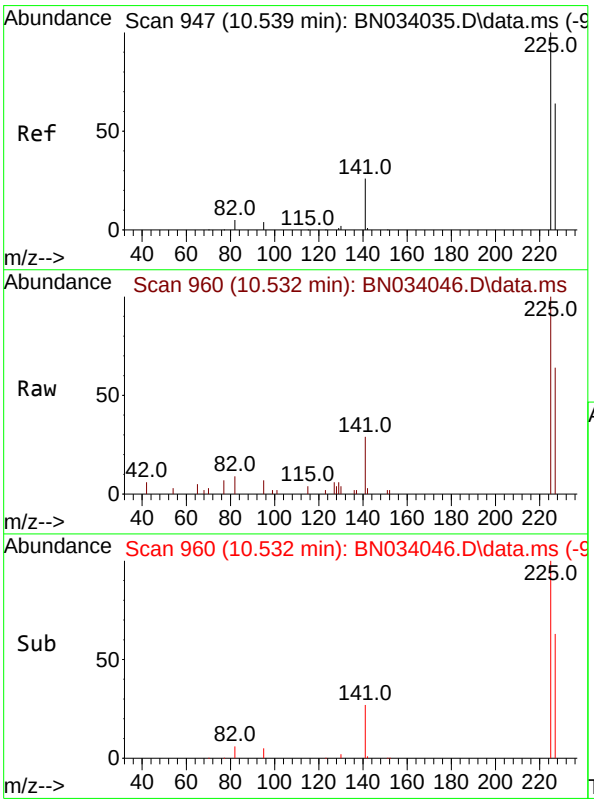
#9
Naphthalene
Concen: 0.386 ng
RT: 10.244 min Scan# 9
Delta R.T. 0.005 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:128 Resp: 22814

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	13.2	10.7	16.1

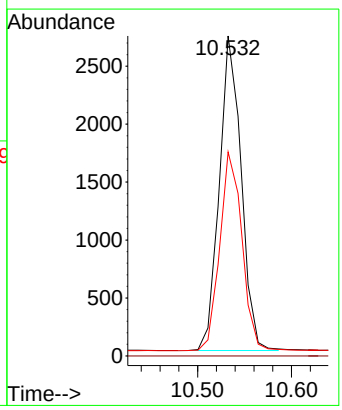


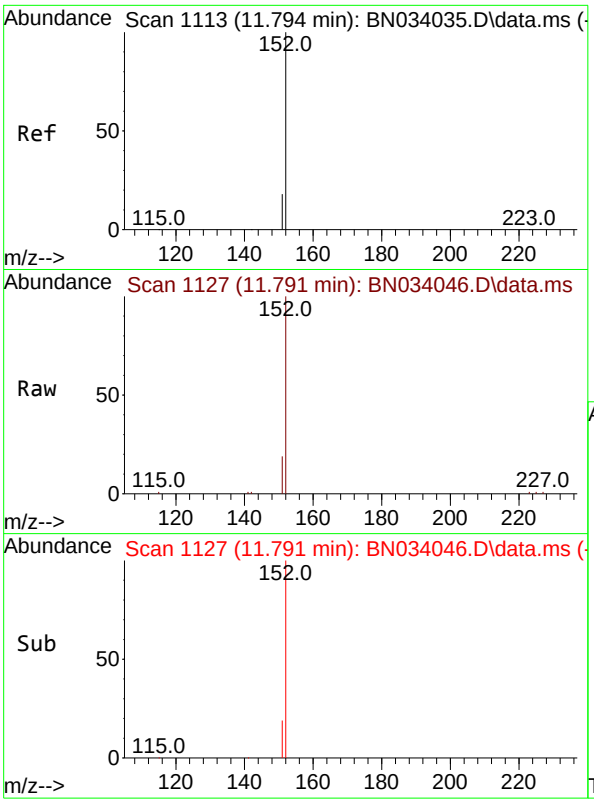


#10
Hexachlorobutadiene
Concen: 0.394 ng
RT: 10.532 min Scan# 960
Delta R.T. -0.006 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:225 Resp: 4385

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.0	50.5	75.7



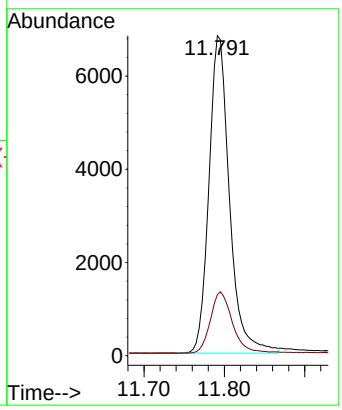


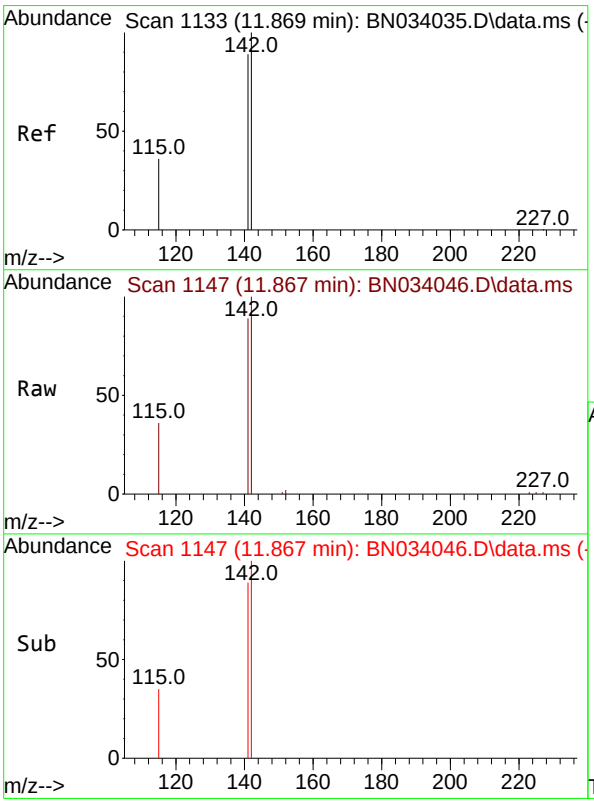
#11
2-Methylnaphthalene-d10
Concen: 0.380 ng
RT: 11.791 min Scan# 11
Delta R.T. -0.002 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:152 Resp: 12069

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.8	25.2

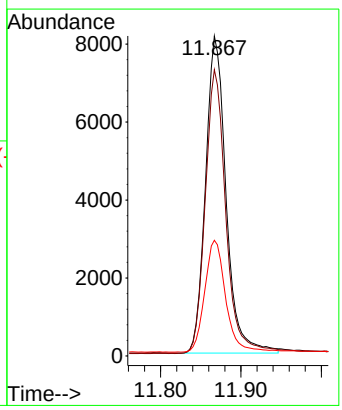


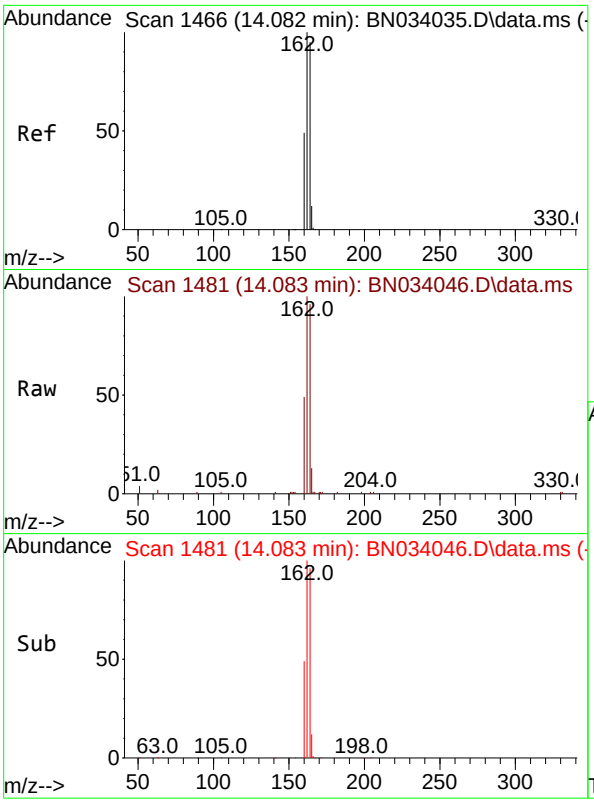


#12
2-Methylnaphthalene
Concen: 0.377 ng
RT: 11.867 min Scan# 1147
Delta R.T. -0.002 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:142 Resp: 14481

Ion	Ratio	Lower	Upper
142	100		
141	89.4	71.6	107.4
115	36.2	30.0	45.0



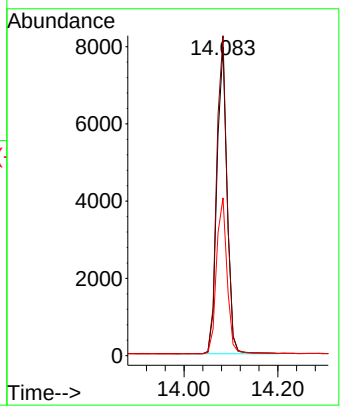


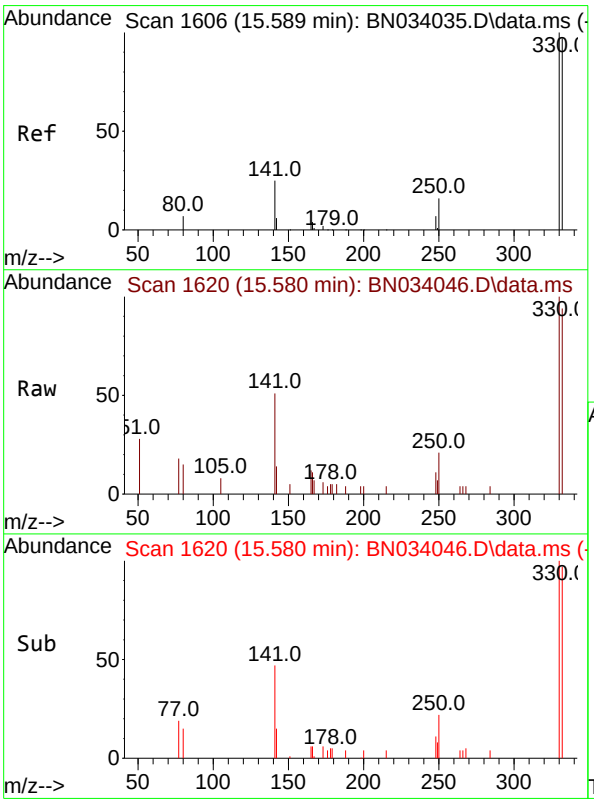
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.083 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:164 Resp: 11978

Ion	Ratio	Lower	Upper
164	100		
162	103.7	84.2	126.2
160	51.1	41.7	62.5

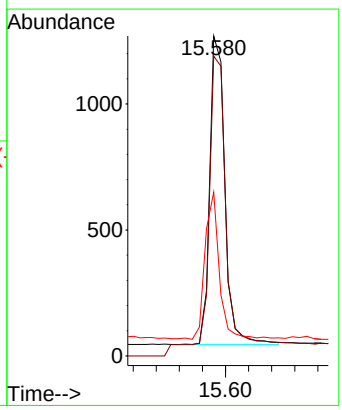


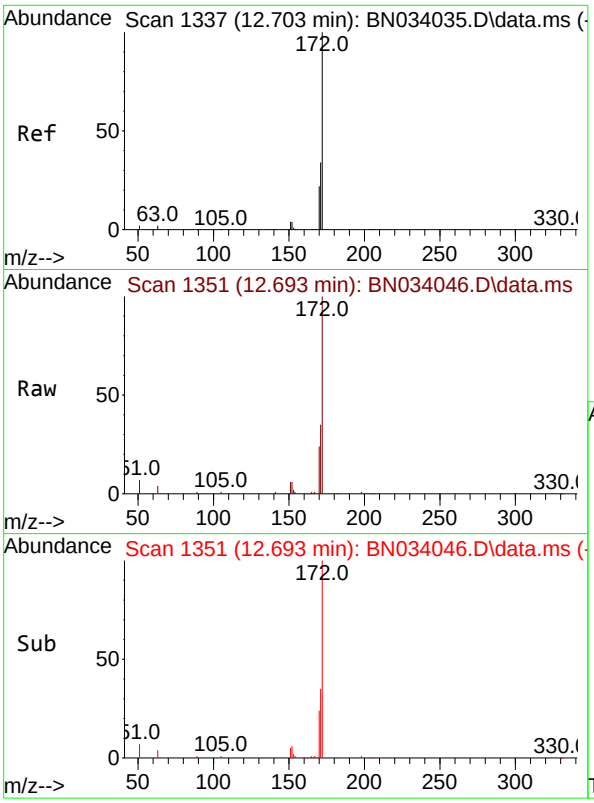


#14
2,4,6-Tribromophenol
Concen: 0.410 ng
RT: 15.580 min Scan# 1620
Delta R.T. -0.009 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:330 Resp: 2226

Ion	Ratio	Lower	Upper
330	100		
332	96.3	77.4	116.0
141	44.2	35.9	53.9



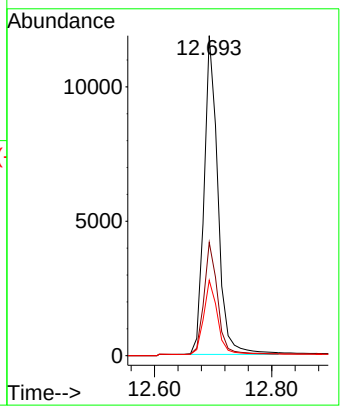


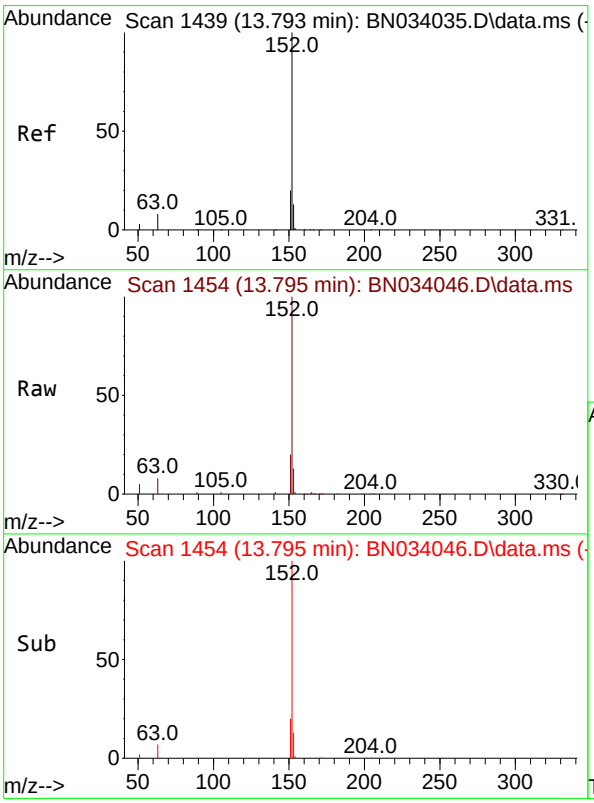
#15
2-Fluorobiphenyl
Concen: 0.399 ng
RT: 12.693 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:172 Resp: 19445

Ion	Ratio	Lower	Upper
172	100		
171	35.4	27.3	40.9
170	23.6	18.1	27.1

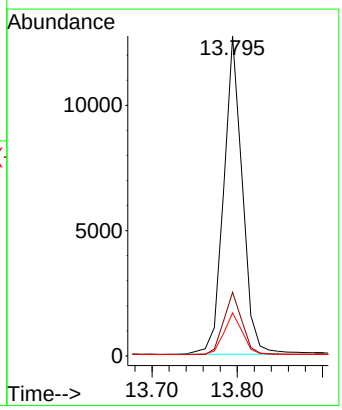


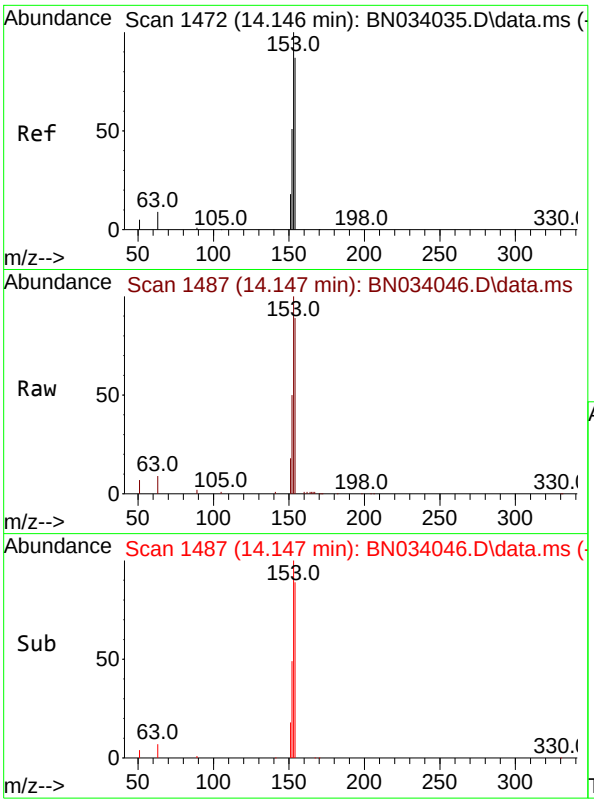


#16
Acenaphthylene
Concen: 0.375 ng
RT: 13.795 min Scan# 1454
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:152 Resp: 19206

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.6	23.4
153	13.2	10.3	15.5



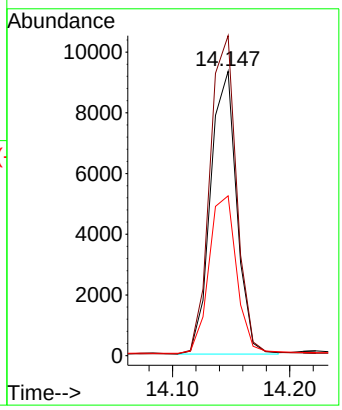


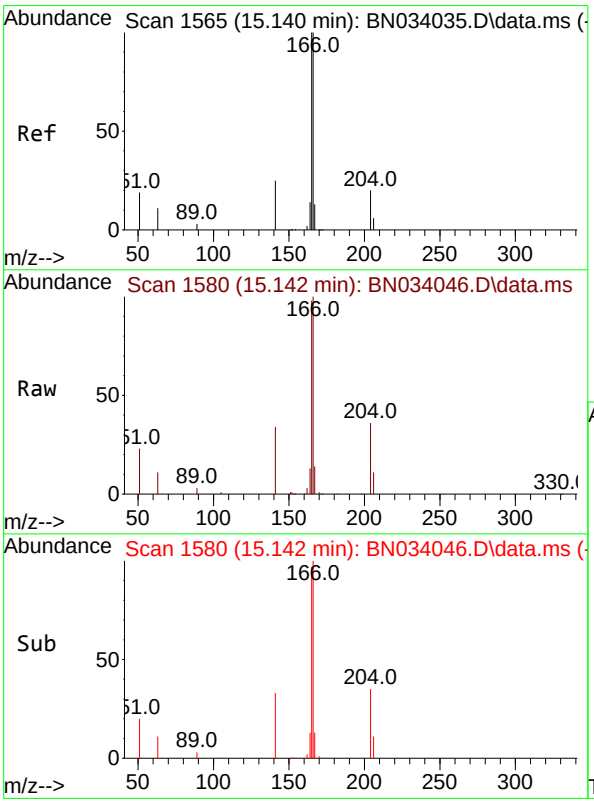
#17
Acenaphthene
Concen: 0.393 ng
RT: 14.147 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:154 Resp: 14449

Ion	Ratio	Lower	Upper
154	100		
153	114.7	91.6	137.4
152	59.1	47.4	71.2

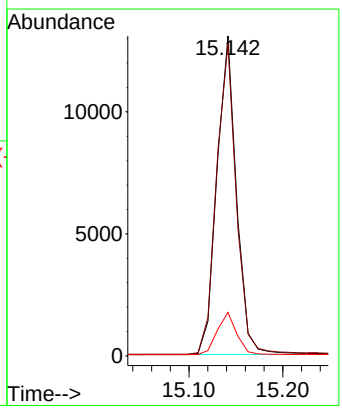


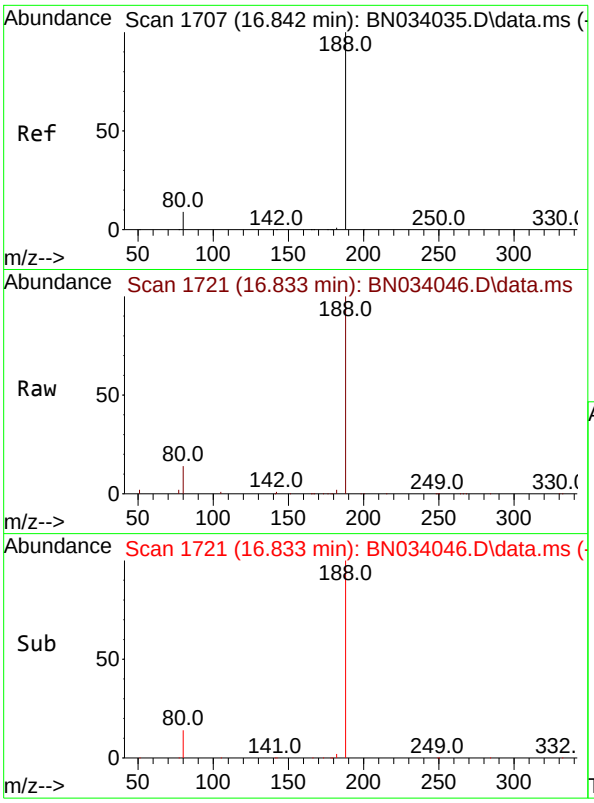


#18
Fluorene
Concen: 0.391 ng
RT: 15.142 min Scan# 1580
Delta R.T. 0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:166 Resp: 18879

Ion	Ratio	Lower	Upper
166	100		
165	98.9	79.1	118.7
167	13.2	10.6	15.8



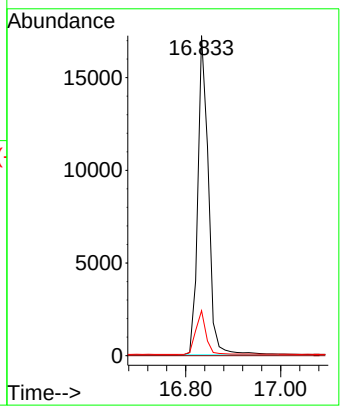


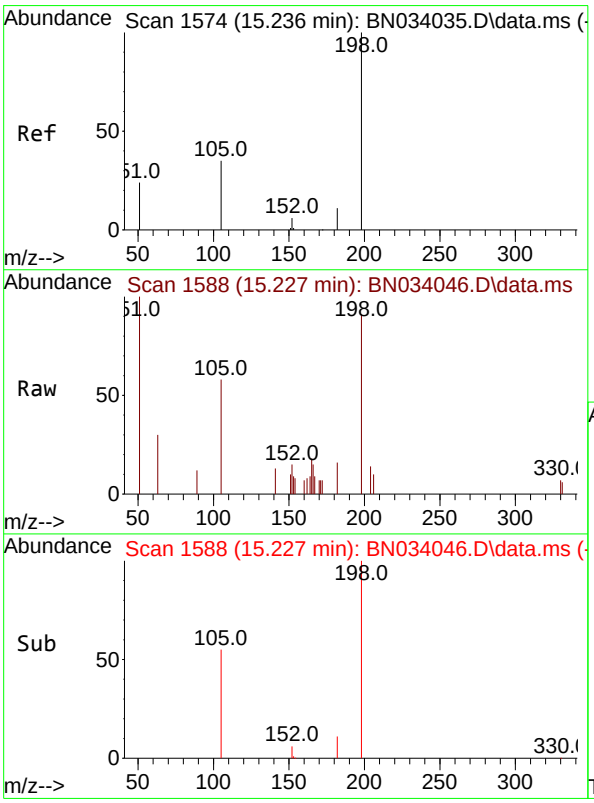
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.833 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:188 Resp: 26692

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	14.1	7.4	11.0#

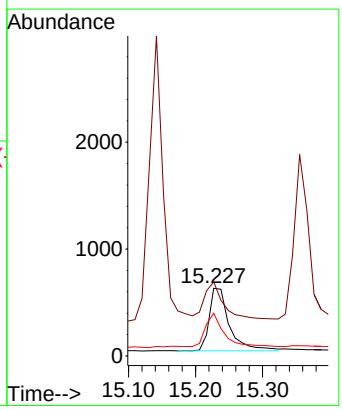


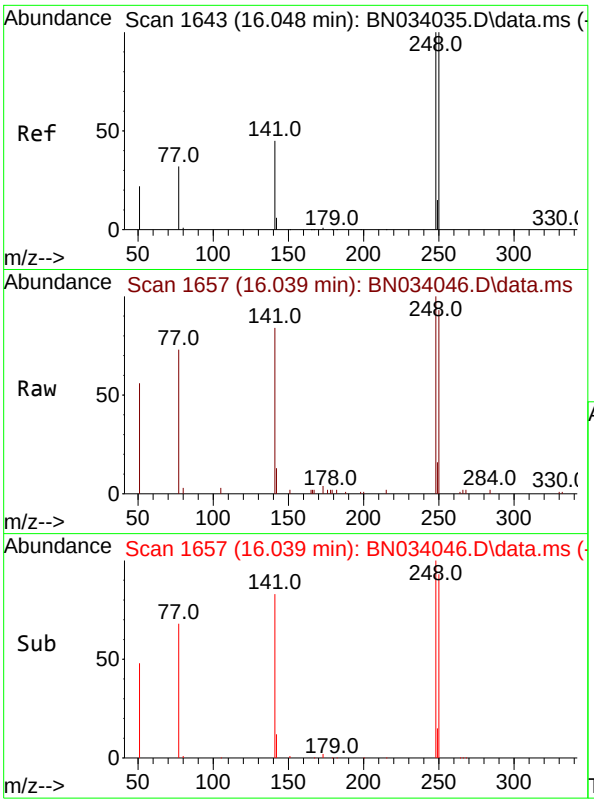


#20
4,6-Dinitro-2-methylphenol
Concen: 0.385 ng
RT: 15.227 min Scan# 1588
Delta R.T. -0.009 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:198 Resp: 1226

Ion	Ratio	Lower	Upper
198	100		
51	109.5	106.4	159.6
105	63.2	38.5	57.7#



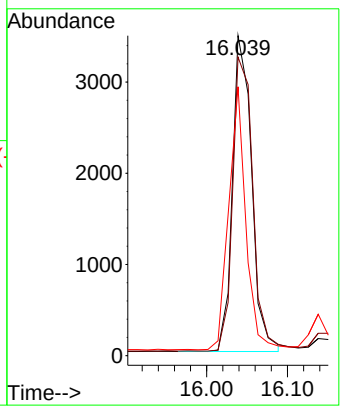


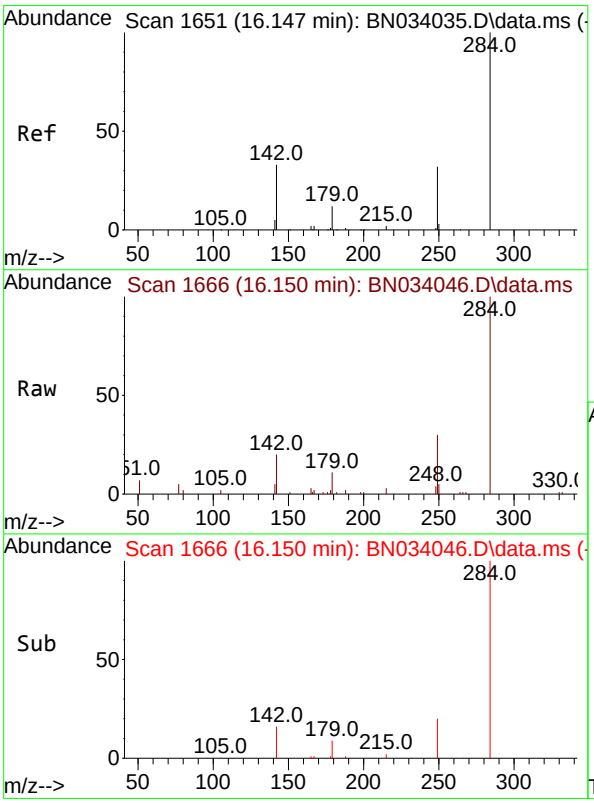
#21
4-Bromophenyl-phenylether
Concen: 0.382 ng
RT: 16.039 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:248 Resp: 5730

Ion	Ratio	Lower	Upper
248	100		
250	93.3	80.5	120.7
141	84.1	37.1	55.7#

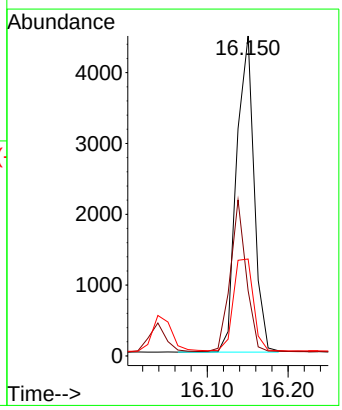


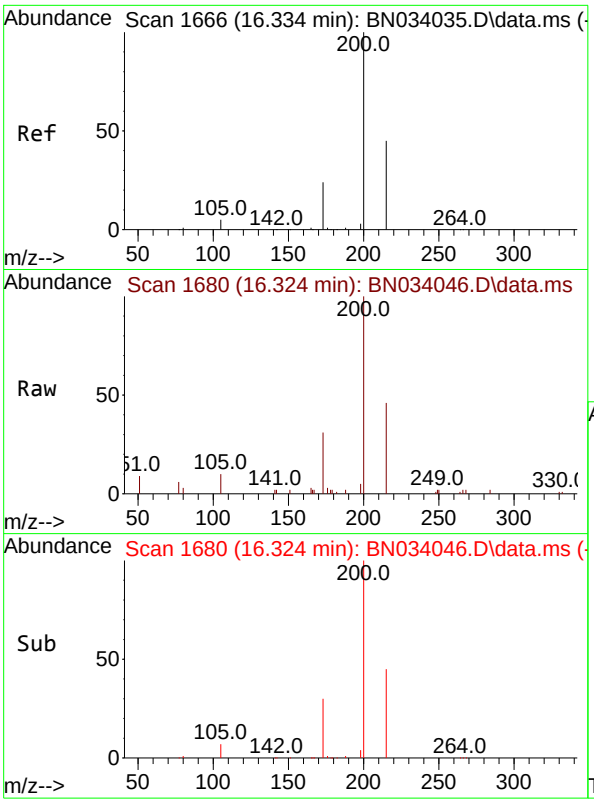


#22
Hexachlorobenzene
Concen: 0.399 ng
RT: 16.150 min Scan# 1666
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:284 Resp: 6719

Ion	Ratio	Lower	Upper
284	100		
142	43.6	34.5	51.7
249	32.8	25.8	38.6



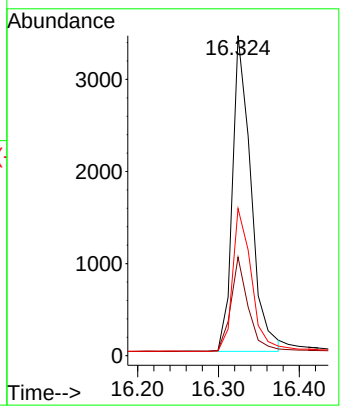


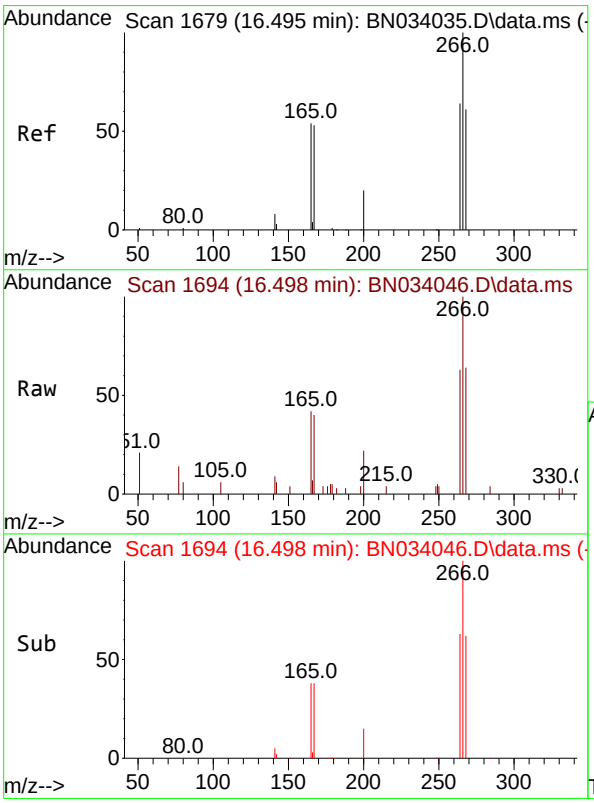
#23
Atrazine
Concen: 0.438 ng
RT: 16.324 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:200 Resp: 5445

Ion	Ratio	Lower	Upper
200	100		
173	30.8	20.1	30.1#
215	46.0	37.0	55.6

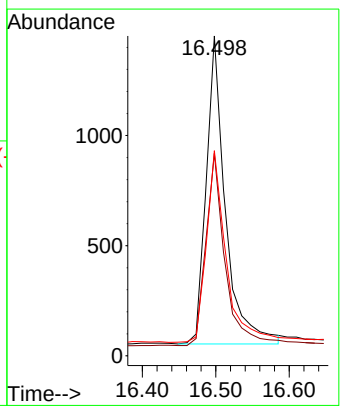


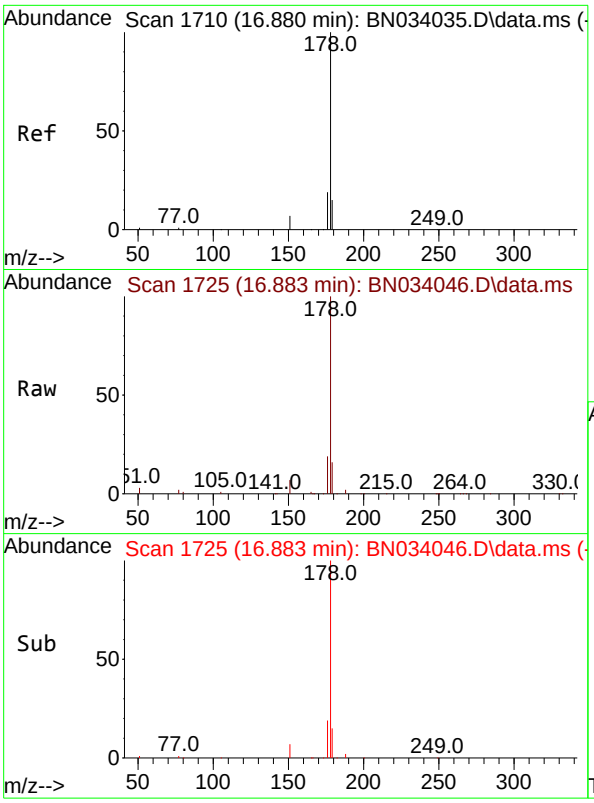


#24
Pentachlorophenol
Concen: 0.456 ng
RT: 16.498 min Scan# 1694
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:266 Resp: 2537

Ion	Ratio	Lower	Upper
266	100		
264	62.5	50.2	75.2
268	63.9	51.0	76.4



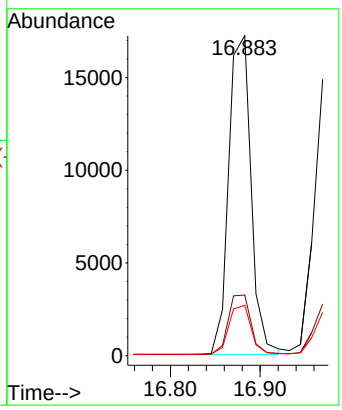


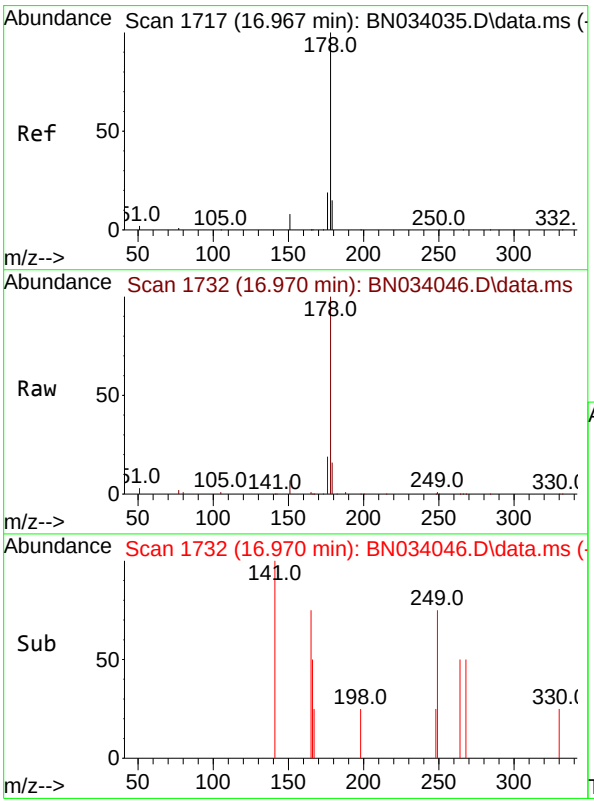
#25
Phenanthrene
Concen: 0.388 ng
RT: 16.883 min Scan# 1
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:178 Resp: 29737

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.3	12.1	18.1

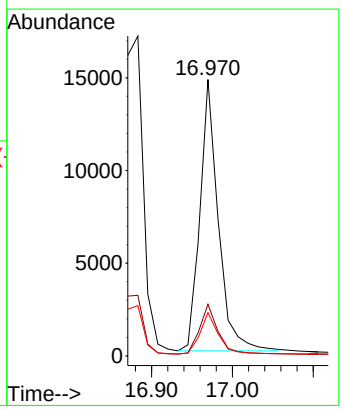


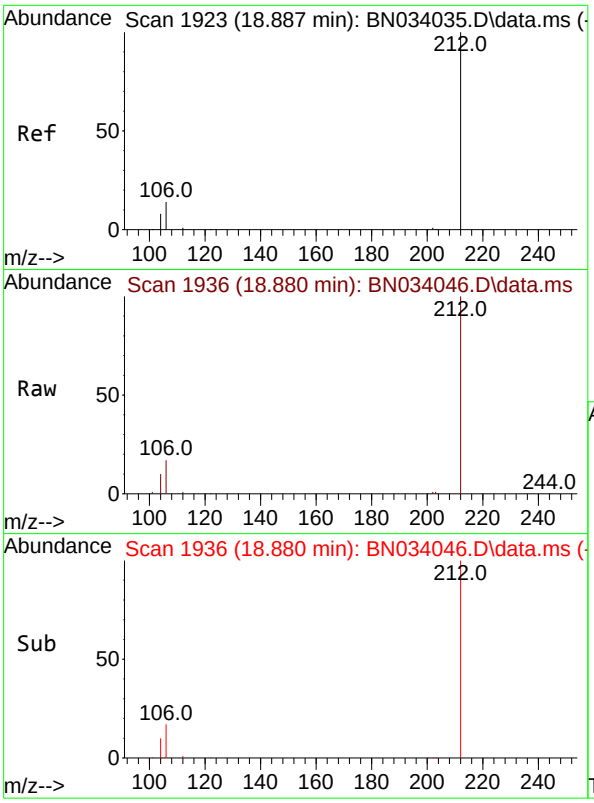


#26
Anthracene
Concen: 0.370 ng
RT: 16.970 min Scan# 1732
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:178 Resp: 23159

Ion	Ratio	Lower	Upper
178	100		
176	18.4	15.0	22.6
179	15.3	12.2	18.4



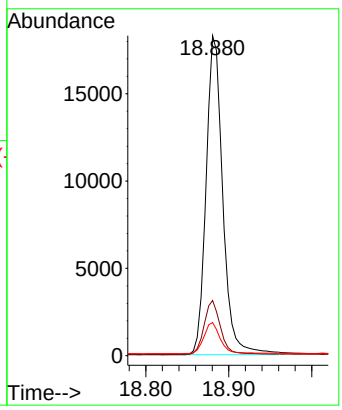


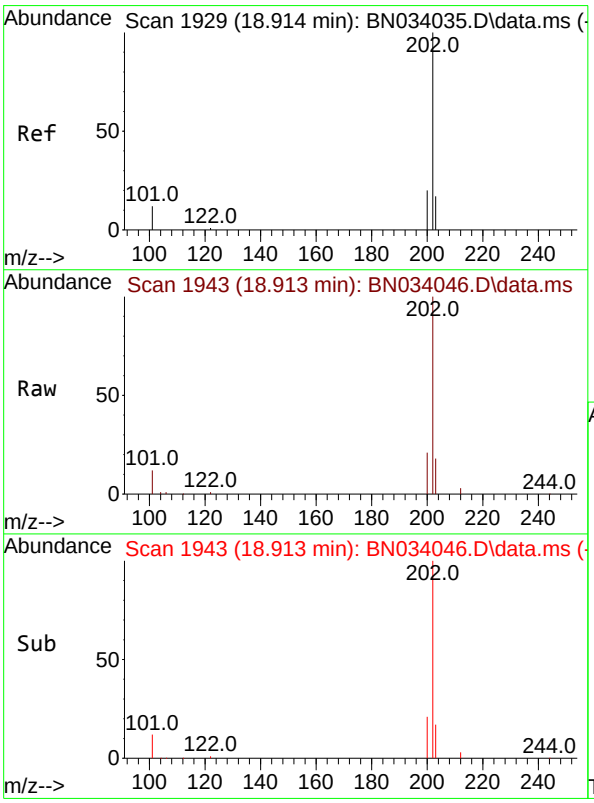
#27
Fluoranthene-d10
Concen: 0.380 ng
RT: 18.880 min Scan# 1
Delta R.T. -0.006 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:212 Resp: 25616

Ion	Ratio	Lower	Upper
212	100		
106	16.7	13.4	20.2
104	9.7	7.8	11.6

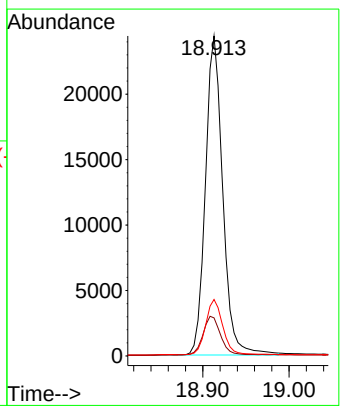


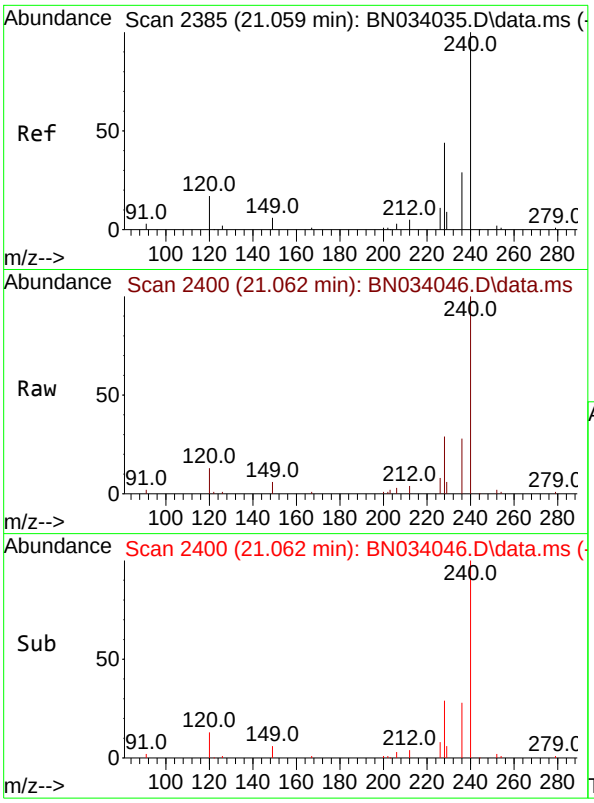


#28
Fluoranthene
Concen: 0.384 ng
RT: 18.913 min Scan# 1943
Delta R.T. -0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:202 Resp: 34065

Ion	Ratio	Lower	Upper
202	100		
101	12.7	10.1	15.1
203	17.3	13.6	20.4



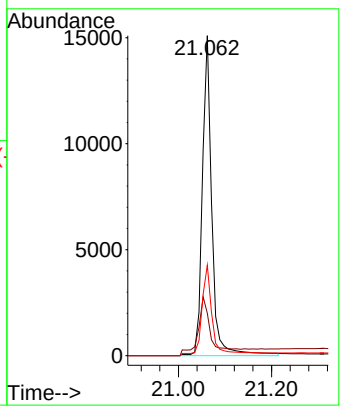


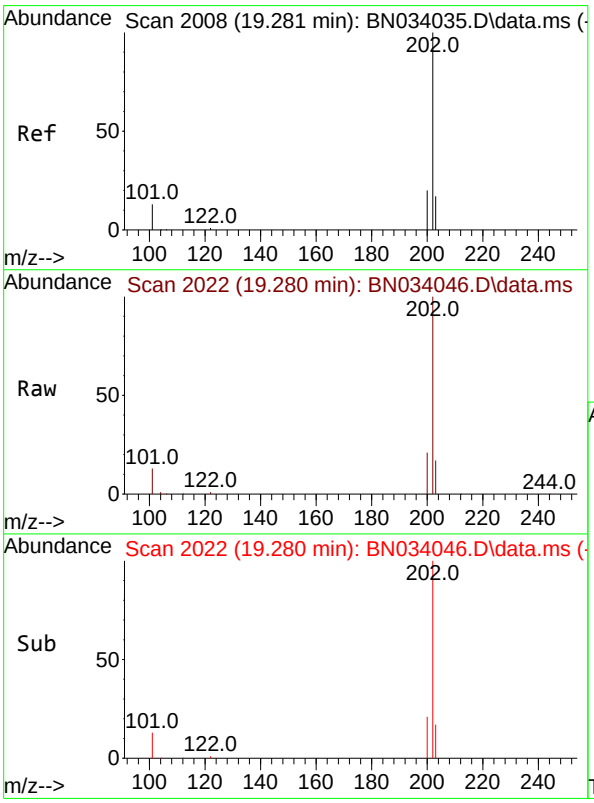
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.062 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:240 Resp: 20522

Ion	Ratio	Lower	Upper
240	100		
120	13.3	13.5	20.3#
236	28.3	23.4	35.0

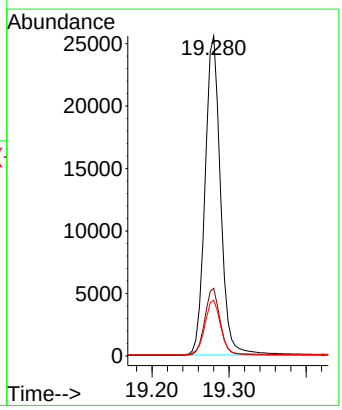


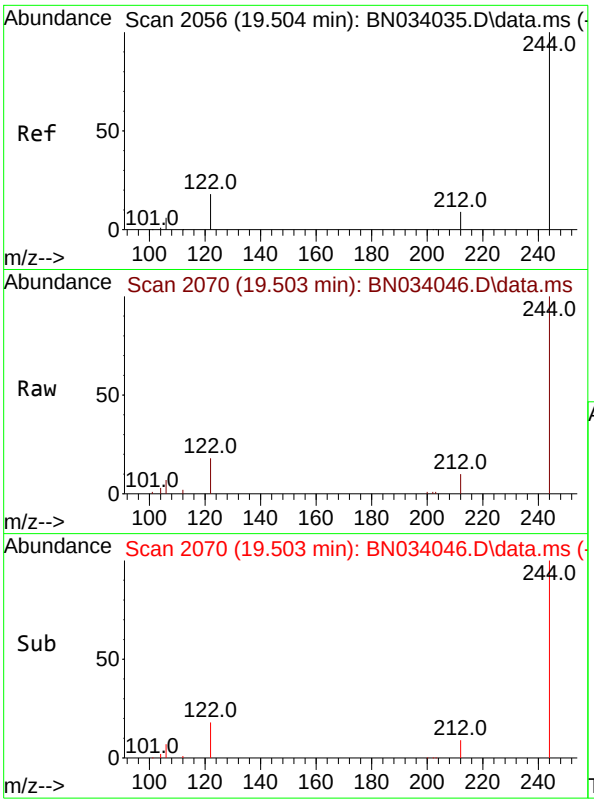


#30
Pyrene
Concen: 0.411 ng
RT: 19.280 min Scan# 2022
Delta R.T. -0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:202 Resp: 35629

Ion	Ratio	Lower	Upper
202	100		
200	20.8	16.6	25.0
203	17.8	14.3	21.5



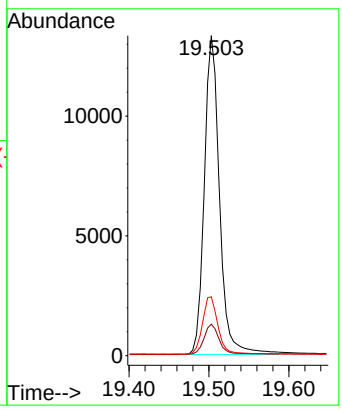


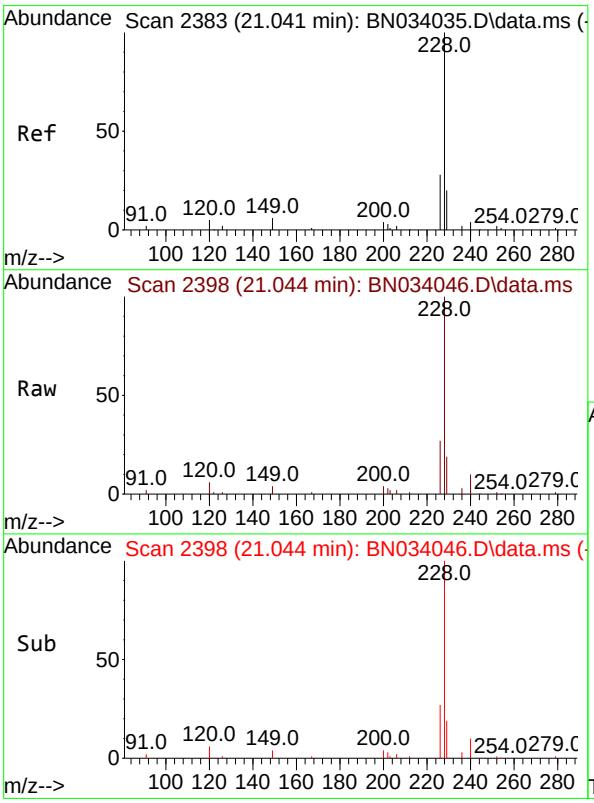
#31
Terphenyl-d14
Concen: 0.429 ng
RT: 19.503 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:244 Resp: 17600

Ion	Ratio	Lower	Upper
244	100		
212	9.9	7.8	11.6
122	18.4	14.8	22.2

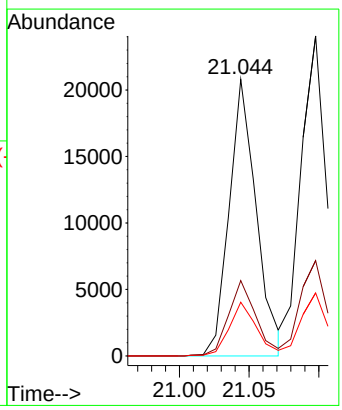


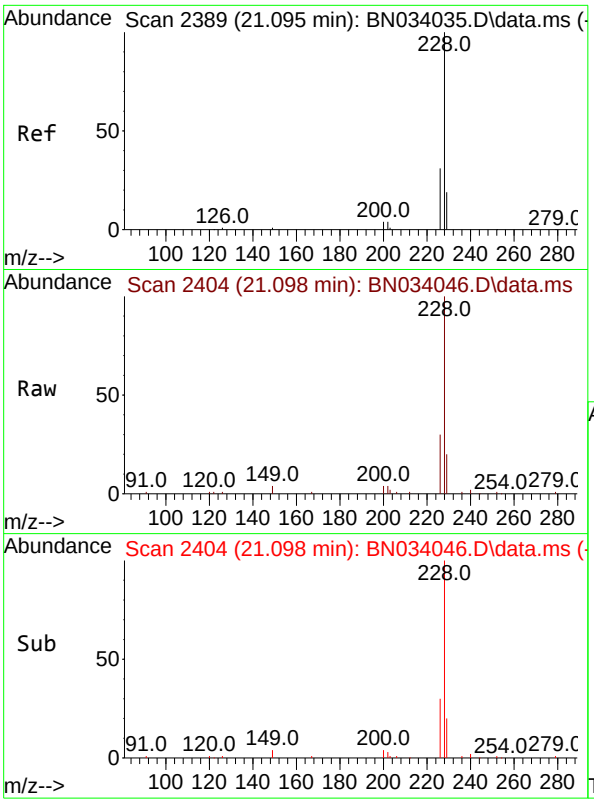


#32
Benzo(a)anthracene
Concen: 0.388 ng
RT: 21.044 min Scan# 2398
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:228 Resp: 25219

Ion	Ratio	Lower	Upper
228	100		
226	27.3	22.3	33.5
229	19.5	15.7	23.5



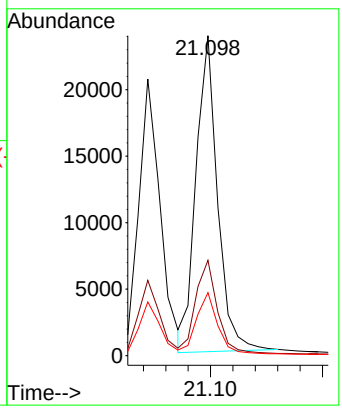


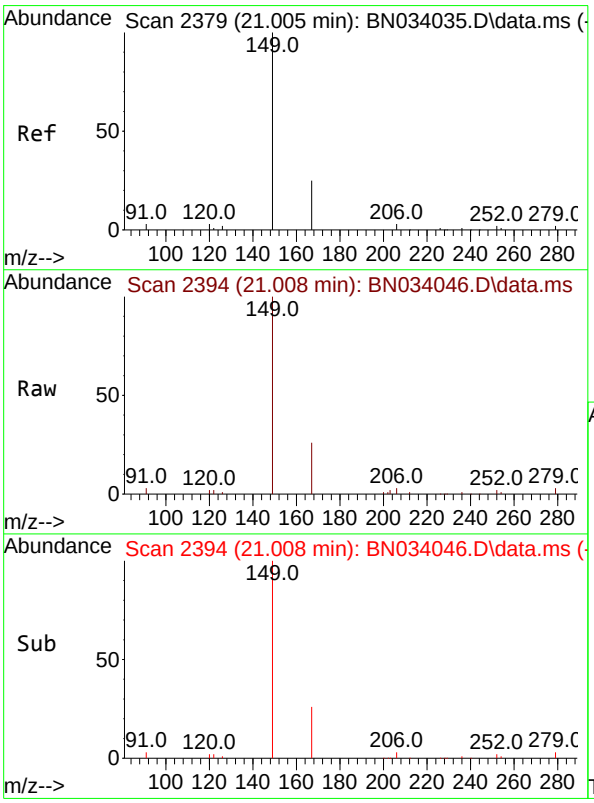
#33
Chrysene
Concen: 0.409 ng
RT: 21.098 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:228 Resp: 31694

Ion	Ratio	Lower	Upper
228	100		
226	29.8	24.6	37.0
229	19.7	15.5	23.3

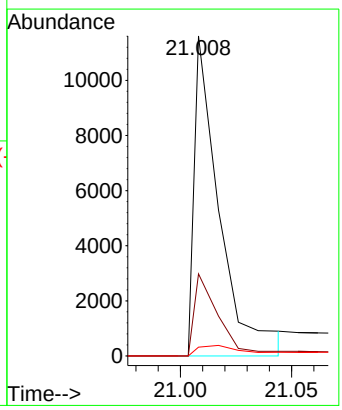


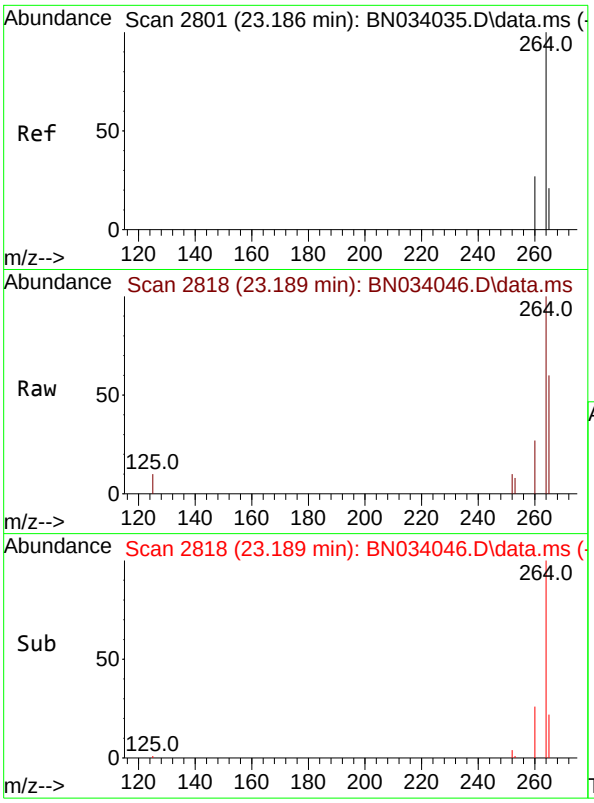


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.333 ng
RT: 21.008 min Scan# 2394
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:149 Resp: 8997

Ion	Ratio	Lower	Upper
149	100		
167	25.2	19.9	29.9
279	5.0	4.6	6.8



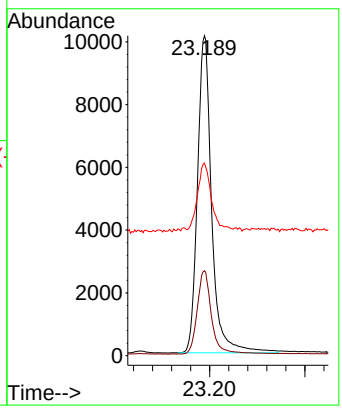


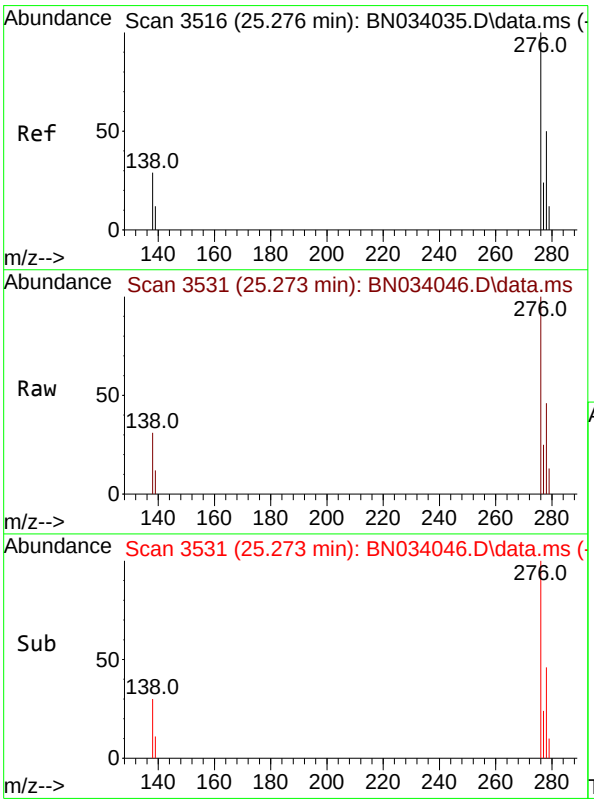
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.189 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:264 Resp: 20864

Ion	Ratio	Lower	Upper
264	100		
260	26.5	21.7	32.5
265	60.2	52.1	78.1

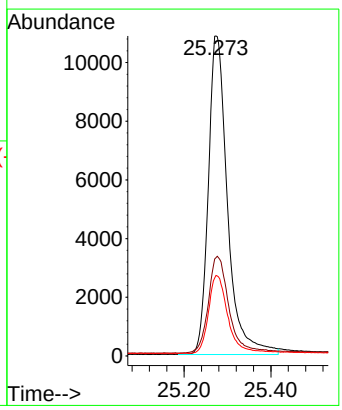


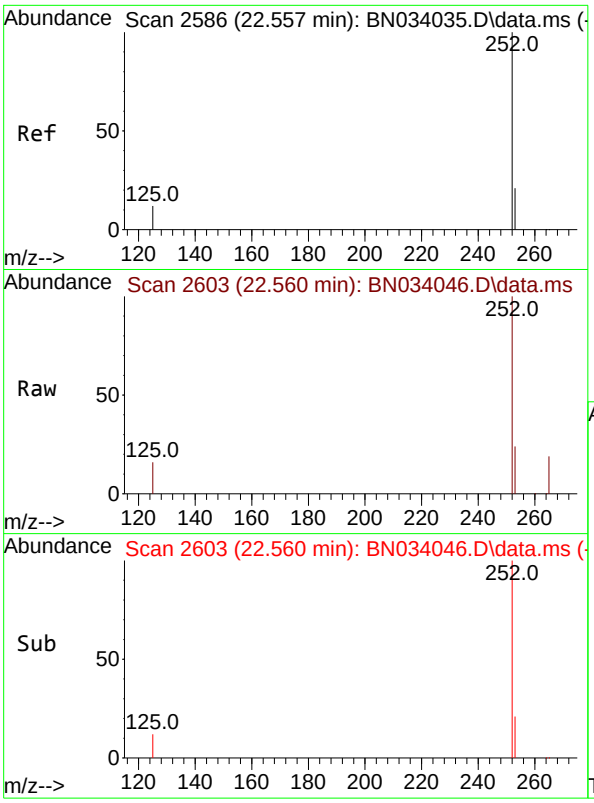


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.373 ng
RT: 25.273 min Scan# 3531
Delta R.T. -0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:276 Resp: 33340

Ion	Ratio	Lower	Upper
276	100		
138	32.7	25.9	38.9
277	24.7	19.7	29.5



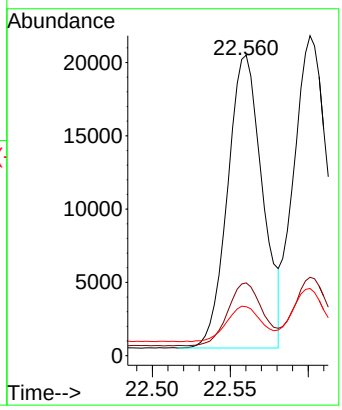


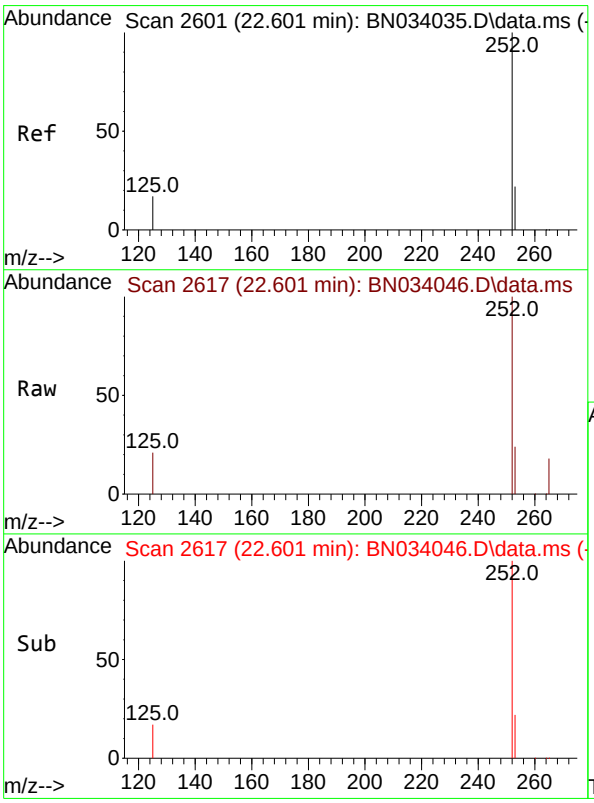
#37
Benzo(b)fluoranthene
Concen: 0.381 ng
RT: 22.560 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 31132

Ion	Ratio	Lower	Upper
252	100		
253	24.2	19.6	29.4
125	16.3	13.8	20.8

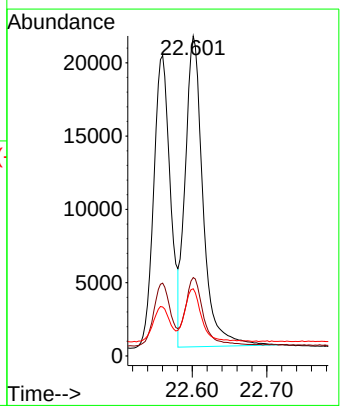


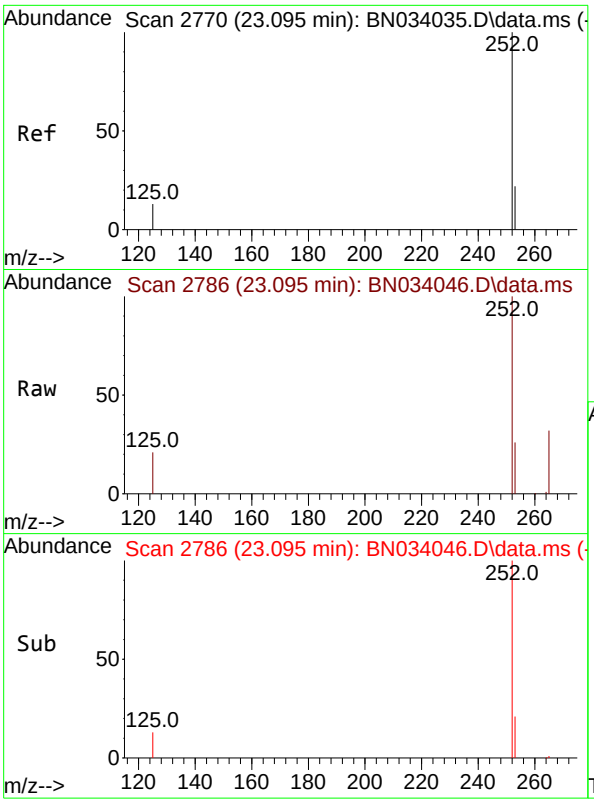


#38
Benzo(k)fluoranthene
Concen: 0.409 ng
RT: 22.601 min Scan# 2617
Delta R.T. 0.000 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:252 Resp: 35099

Ion	Ratio	Lower	Upper
252	100		
253	24.5	20.1	30.1
125	21.0	16.8	25.2



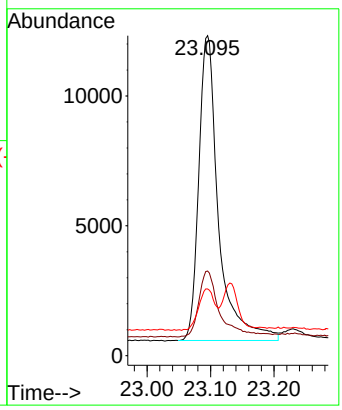


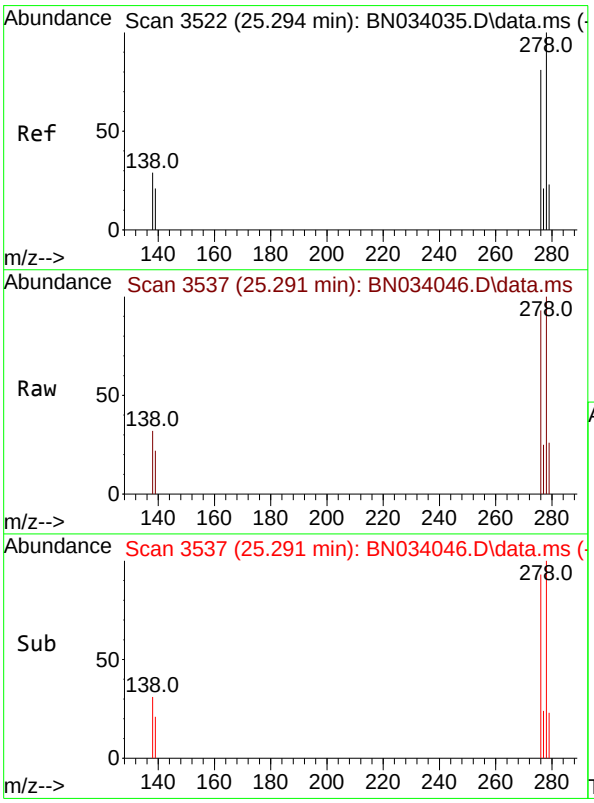
#39
Benzo(a)pyrene
Concen: 0.381 ng
RT: 23.095 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:252 Resp: 25374

Ion	Ratio	Lower	Upper
252	100		
253	26.5	21.8	32.8
125	20.8	17.5	26.3

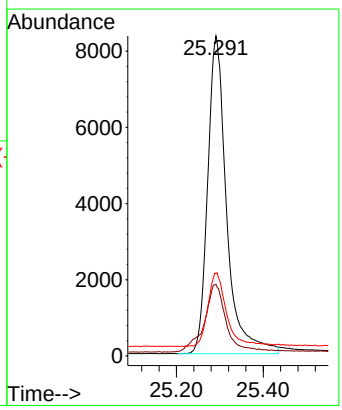


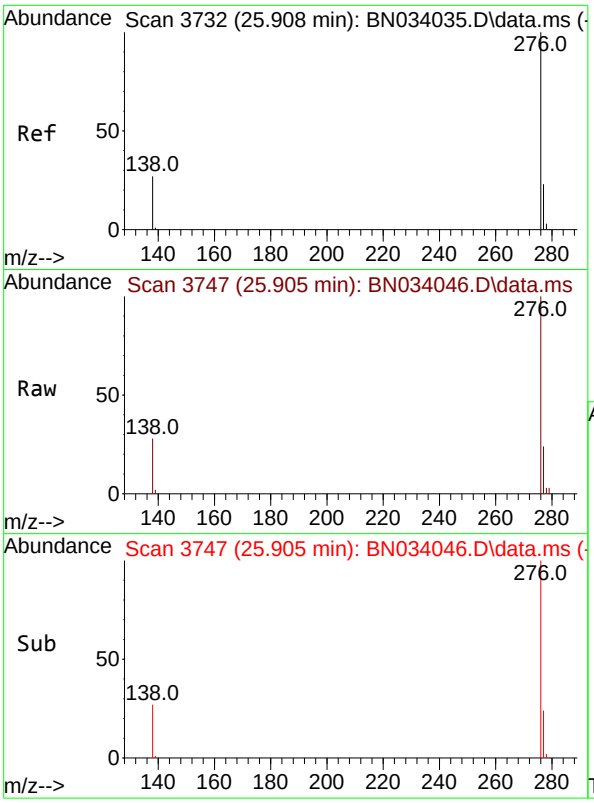


#40
Dibenzo(a,h)anthracene
Concen: 0.364 ng
RT: 25.291 min Scan# 3537
Delta R.T. -0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Tgt Ion:278 Resp: 25266

Ion	Ratio	Lower	Upper
278	100		
139	22.4	17.8	26.8
279	25.8	21.0	31.6



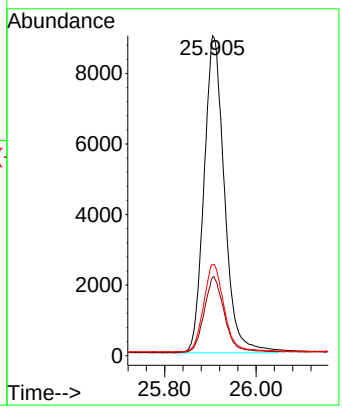


#41
Benzo(g,h,i)perylene
Concen: 0.357 ng
RT: 25.905 min Scan# 3
Delta R.T. -0.003 min
Lab File: BN034046.D
Acq: 19 Sep 2024 09:33

Instrument :
BNA_N
ClientSampleId :
SSTDCCC0.4

Tgt Ion:276 Resp: 27814

Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.3	28.9
138	28.4	22.6	34.0



Sample Results: **BN034046.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034046.D
Acq On : 19 Sep 2024 09:33
Operator : JU/RC
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 10:58:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	107	0.00
2		1,4-Dioxane	0.500	0.491	1.8	104	0.00
3		n-Nitrosodimethylamine	0.569	0.555	2.5	108	0.00
4	S	2-Fluorophenol	1.135	1.226	-8.0	122	0.00
5	S	Phenol-d6	1.320	1.358	-2.9	122	0.00
6		bis(2-Chloroethyl)ether	1.168	1.114	4.6	108	0.00
7	I	Naphthalene-d8	1.000	1.000	0.0	111	0.00
8	S	Nitrobenzene-d5	0.306	0.275	10.1	109	0.00
9		Naphthalene	1.098	1.060	3.5	111	0.00
10		Hexachlorobutadiene	0.207	0.204	1.4	111	0.00
11	SURR	2-Methylnaphthalene-d10	0.591	0.561	5.1	111	0.00
12		2-Methylnaphthalene	0.714	0.673	5.7	110	0.00
13	I	Acenaphthene-d10	1.000	1.000	0.0	108	0.00
14	S	2,4,6-Tribromophenol	0.181	0.186	-2.8	130	0.00
15	S	2-Fluorobiphenyl	1.627	1.623	0.2	112	0.00
16		Acenaphthylene	1.712	1.603	6.4	113	0.00
17		Acenaphthene	1.228	1.206	1.8	111	0.00
18		Fluorene	1.612	1.576	2.2	112	0.00
19	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00
20		4,6-Dinitro-2-methylphenol	0.057	0.046	19.3	109	0.00
21		4-Bromophenyl-phenylether	0.225	0.215	4.4	111	0.00
22		Hexachlorobenzene	0.252	0.252	0.0	112	0.00
23		Atrazine	0.186	0.204	-9.7	132	0.00
24		Pentachlorophenol	0.083	0.095	-14.5	150	0.00
25		Phenanthrene	1.149	1.114	3.0	111	0.00
26		Anthracene	0.937	0.868	7.4	113	0.00
27	SURR	Fluoranthene-d10	1.009	0.960	4.9	111	0.00
28		Fluoranthene	1.331	1.276	4.1	112	0.00
29	I	Chrysene-d12	1.000	1.000	0.0	111	0.00
30		Pyrene	1.688	1.736	-2.8	114	0.00
31	S	Terphenyl-d14	0.799	0.858	-7.4	120	0.00
32		Benzo(a)anthracene	1.265	1.229	2.8	116	0.00
33		Chrysene	1.510	1.544	-2.3	112	0.00
34		Bis(2-ethylhexyl)phthalate	0.527	0.438	16.9	89	0.00
35	I	Perylene-d12	1.000	1.000	0.0	107	0.00
36		Indeno(1,2,3-cd)pyrene	1.714	1.598	6.8	97	0.00
37		Benzo(b)fluoranthene	1.567	1.492	4.8	110	0.00
38		Benzo(k)fluoranthene	1.645	1.682	-2.2	111	0.00
39	C	Benzo(a)pyrene	1.277	1.216	4.8	109	0.00
40		Dibenzo(a,h)anthracene	1.331	1.211	9.0	96	0.00
41		Benzo(g,h,i)perylene	1.495	1.333	10.8	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Evaluate Continuing Calibration Report

Sample Results: **BN034046.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034046.D
Acq On : 19 Sep 2024 09:33
Operator : JU/RC
Sample : SSTDCCC0.4
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_N
LabSampleId :
SSTDCCC0.4

Quant Time: Sep 19 10:58:52 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	0.400	0.400	0.0	107	0.00
2		1,4-Dioxane	0.400	0.393	1.8	104	0.00
3		n-Nitrosodimethylamine	0.400	0.390	2.5	108	0.00
4	S	2-Fluorophenol	0.400	0.432	-8.0	122	0.00
5	S	Phenol-d6	0.400	0.411	-2.7	122	0.00
6		bis(2-Chloroethyl)ether	0.400	0.381	4.8	108	0.00
7	I	Naphthalene-d8	0.400	0.400	0.0	111	0.00
8	S	Nitrobenzene-d5	0.400	0.359	10.3	109	0.00
9		Naphthalene	0.400	0.386	3.5	111	0.00
10		Hexachlorobutadiene	0.400	0.394	1.5	111	0.00
11	SURR	2-Methylnaphthalene-d10	0.400	0.380	5.0	111	0.00
12		2-Methylnaphthalene	0.400	0.377	5.8	110	0.00
13	I	Acenaphthene-d10	0.400	0.400	0.0	108	0.00
14	S	2,4,6-Tribromophenol	0.400	0.410	-2.5	130	0.00
15	S	2-Fluorobiphenyl	0.400	0.399	0.3	112	0.00
16		Acenaphthylene	0.400	0.375	6.3	113	0.00
17		Acenaphthene	0.400	0.393	1.8	111	0.00
18		Fluorene	0.400	0.391	2.3	112	0.00
19	I	Phenanthrene-d10	0.400	0.400	0.0	110	0.00
20		4,6-Dinitro-2-methylphenol	0.400	0.385	3.8	109	0.00
21		4-Bromophenyl-phenylether	0.400	0.382	4.5	111	0.00
22		Hexachlorobenzene	0.400	0.399	0.3	112	0.00
23		Atrazine	0.400	0.438	-9.5	132	0.00
24		Pentachlorophenol	0.400	0.456	-14.0	150	0.00
25		Phenanthrene	0.400	0.388	3.0	111	0.00
26		Anthracene	0.400	0.370	7.5	113	0.00
27	SURR	Fluoranthene-d10	0.400	0.380	5.0	111	0.00
28		Fluoranthene	0.400	0.384	4.0	112	0.00
29	I	Chrysene-d12	0.400	0.400	0.0	111	0.00
30		Pyrene	0.400	0.411	-2.7	114	0.00
31	S	Terphenyl-d14	0.400	0.429	-7.2	120	0.00
32		Benzo(a)anthracene	0.400	0.388	3.0	116	0.00
33		Chrysene	0.400	0.409	-2.2	112	0.00
34		Bis(2-ethylhexyl)phthalate	0.400	0.333	16.8	89	0.00
35	I	Perylene-d12	0.400	0.400	0.0	107	0.00
36		Indeno(1,2,3-cd)pyrene	0.400	0.373	6.8	97	0.00
37		Benzo(b)fluoranthene	0.400	0.381	4.8	110	0.00
38		Benzo(k)fluoranthene	0.400	0.409	-2.2	111	0.00
39	C	Benzo(a)pyrene	0.400	0.381	4.8	109	0.00
40		Dibenzo(a,h)anthracene	0.400	0.364	9.0	96	0.00
41		Benzo(g,h,i)perylene	0.400	0.357	10.8	95	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

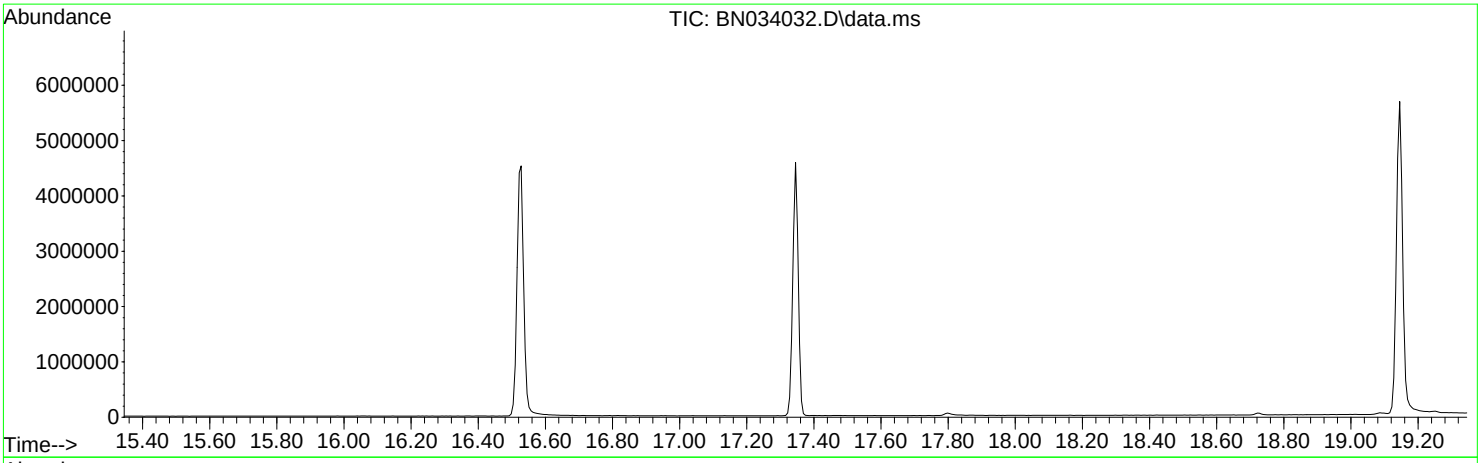
Sample Results: **BN034032.D**

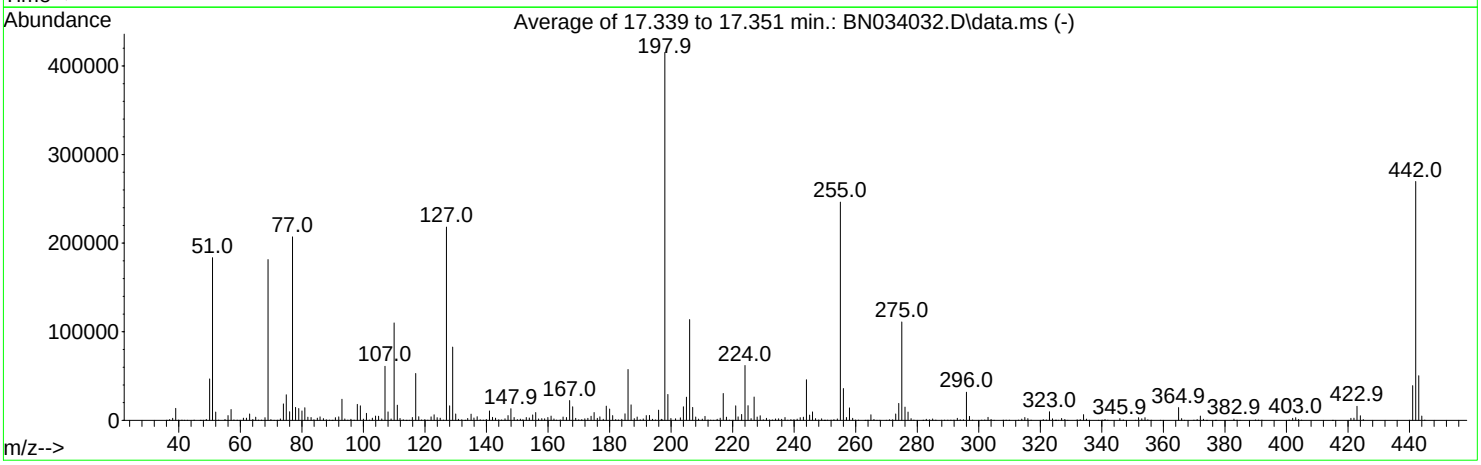
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034032.D
Acq On : 18 Sep 2024 08:34
Operator : JU/RC
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 18 16:09:28 2024





AutoFind: Scans 2440, 2441, 2442; Background Corrected with Scan 2433

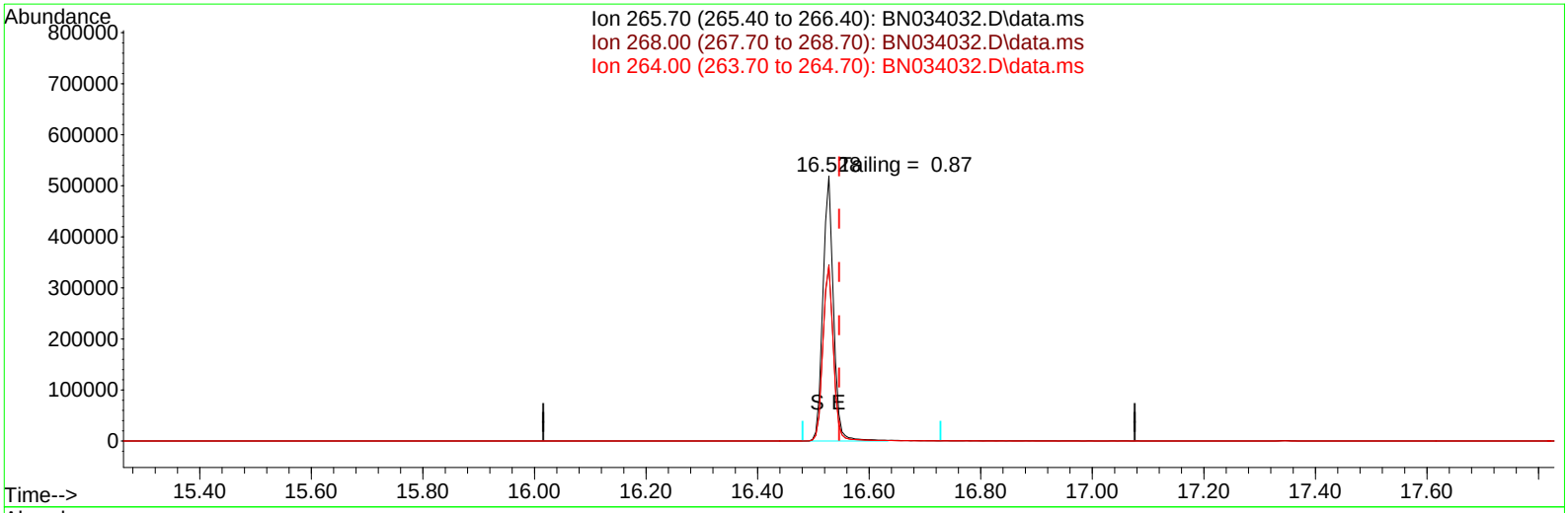
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	44.2	183645	PASS
68	69	0.00	2	1.7	3129	PASS
69	198	0.00	100	43.7	181547	PASS
70	69	0.00	2	0.5	929	PASS
127	198	10	80	52.6	218219	PASS
197	198	0.00	2	0.3	1234	PASS
198	198	100	100	100.0	415168	PASS
199	198	5	9	7.0	29256	PASS
275	198	10	60	26.8	111072	PASS
365	198	1	100	3.5	14476	PASS
441	198	0.01	100	9.4	39211	PASS
442	442	50	100	100.0	269675	PASS
443	442	15	24	18.7	50309	PASS

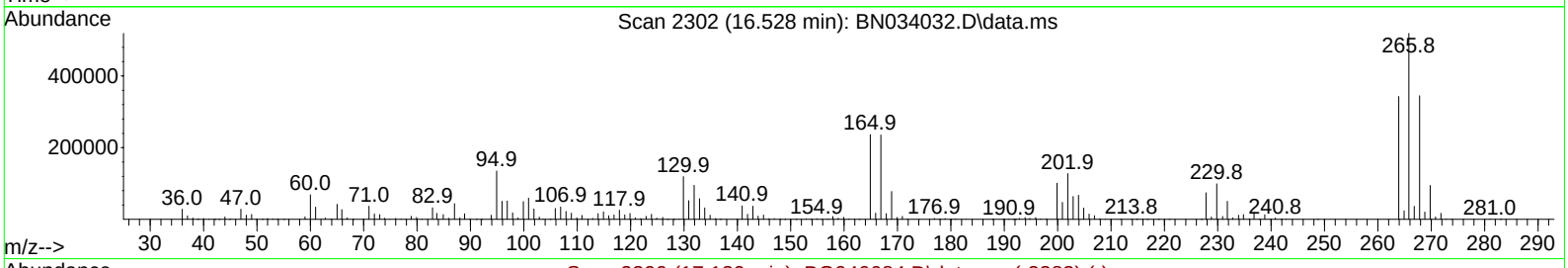
Sample Results: **BN034032.D**

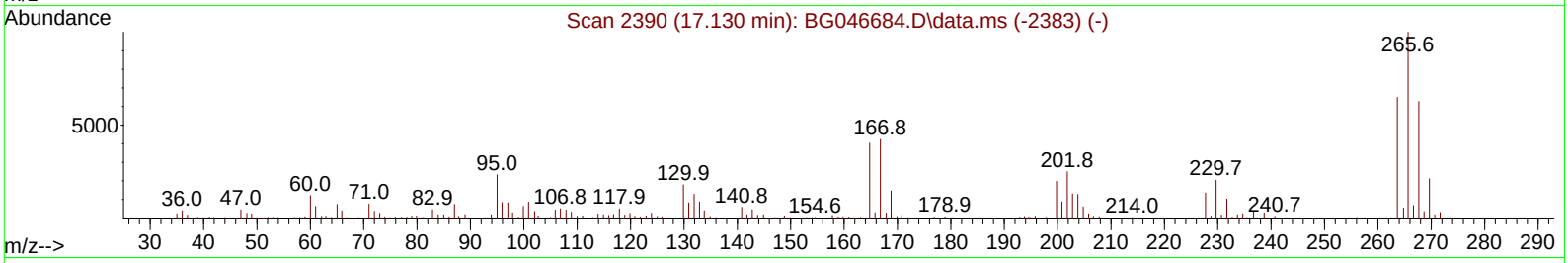
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034032.D
Acq On : 18 Sep 2024 08:34
Operator : JU/RC
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 17:07:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 04:22:28 2024
Response via : Initial Calibration







TIC: BN034032.D\data.ms

(70) Pentachlorophenol (C)

16.528min (-0.018) 32535.82 ng

response 682505

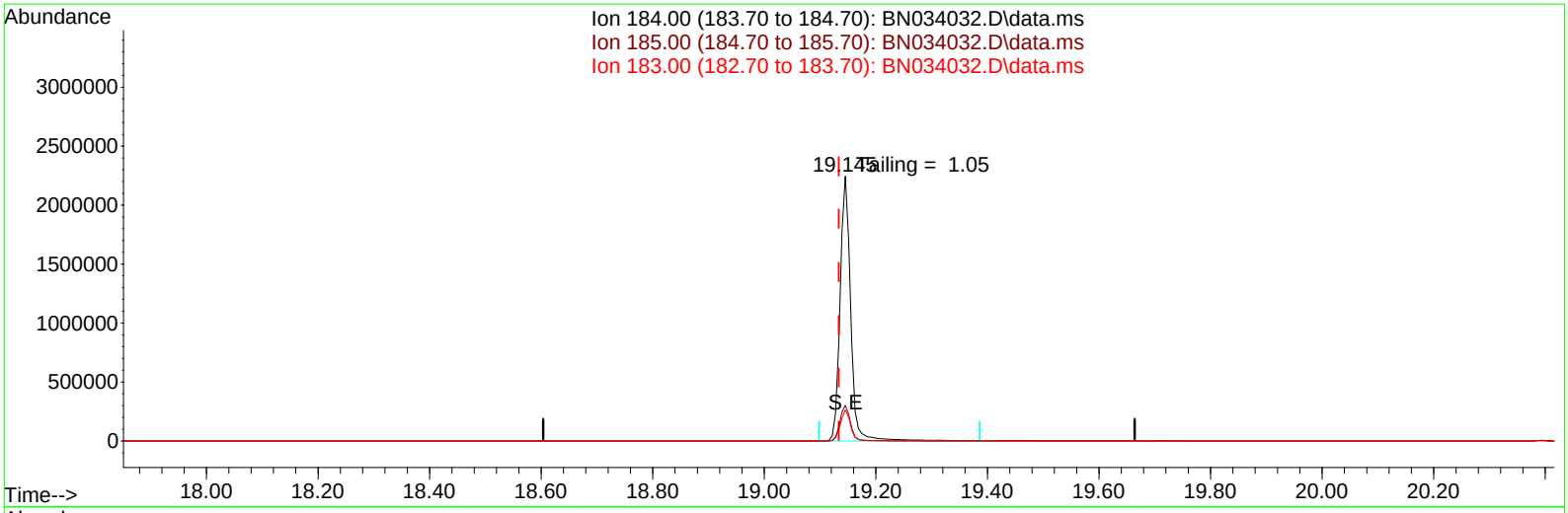
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	66.46
264.00	61.60	66.06
0.00	0.00	0.00

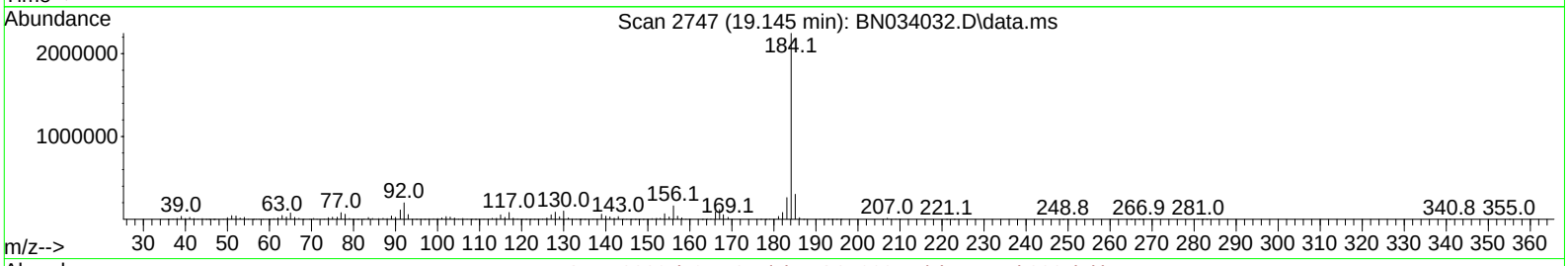
Sample Results: **BN034032.D**

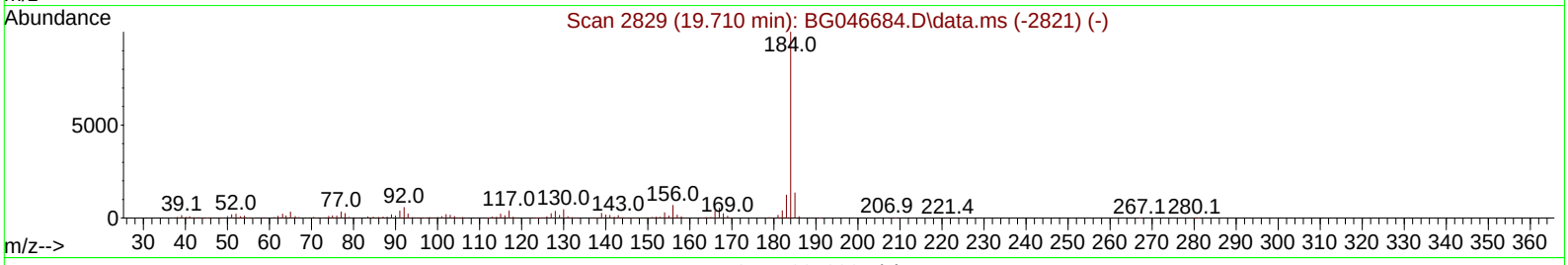
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034032.D
Acq On : 18 Sep 2024 08:34
Operator : JU/RC
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 18 17:07:36 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 10 04:22:28 2024
Response via : Initial Calibration







TIC: BN034032.D\data.ms

(77) Benzidine

19.145min (+ 0.011) 0.00 ng

response 3004968

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	13.44
183.00	13.20	11.67
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/19/2024	BNA_N	BN034032.D
Compound Name	**Response**	**Retention Time**
DDT	1434298	20.392
DDD	33424	19.951
DDE	2229	19.439
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
35653	1469951	2.43

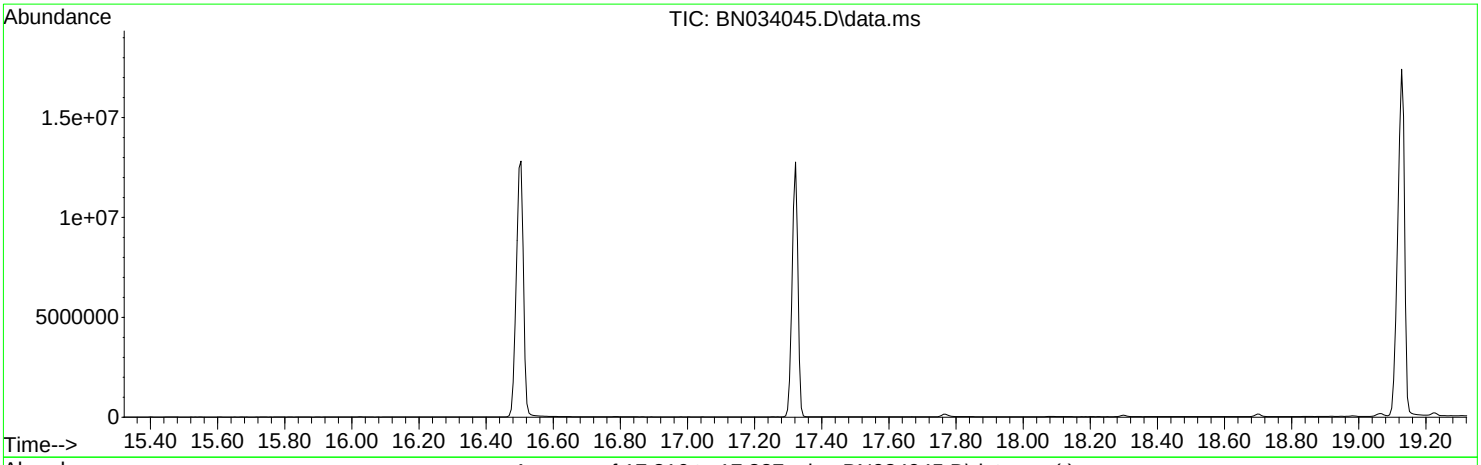
Sample Results: **BN034045.D**

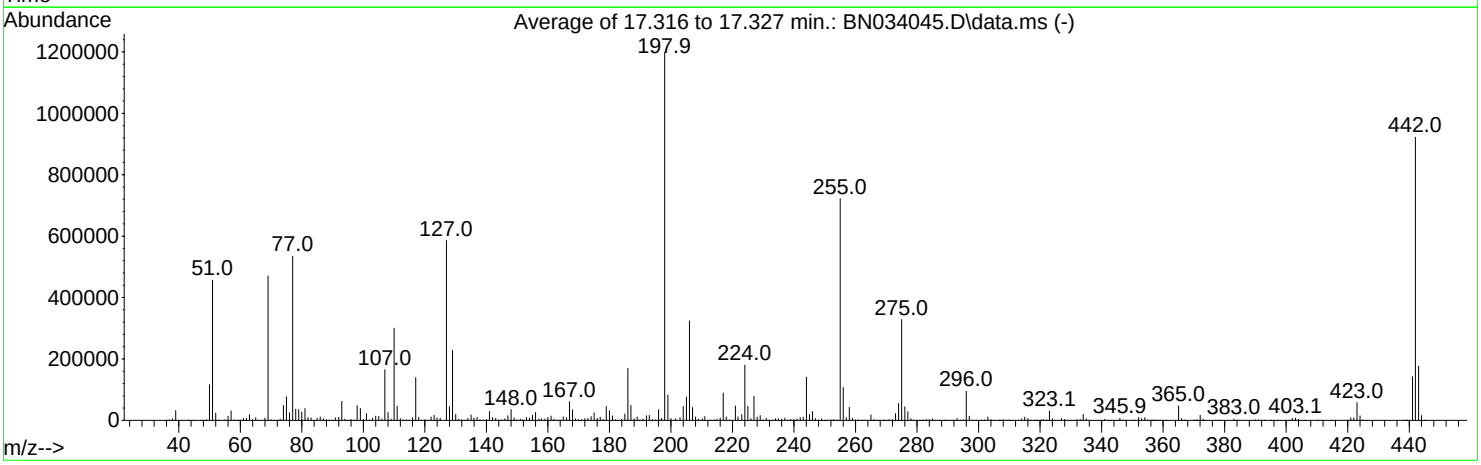
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034045.D
Acq On : 19 Sep 2024 08:54
Operator : JU/RC
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 18 16:09:28 2024





AutoFind: Scans 2453, 2454, 2455; Background Corrected with Scan 2445

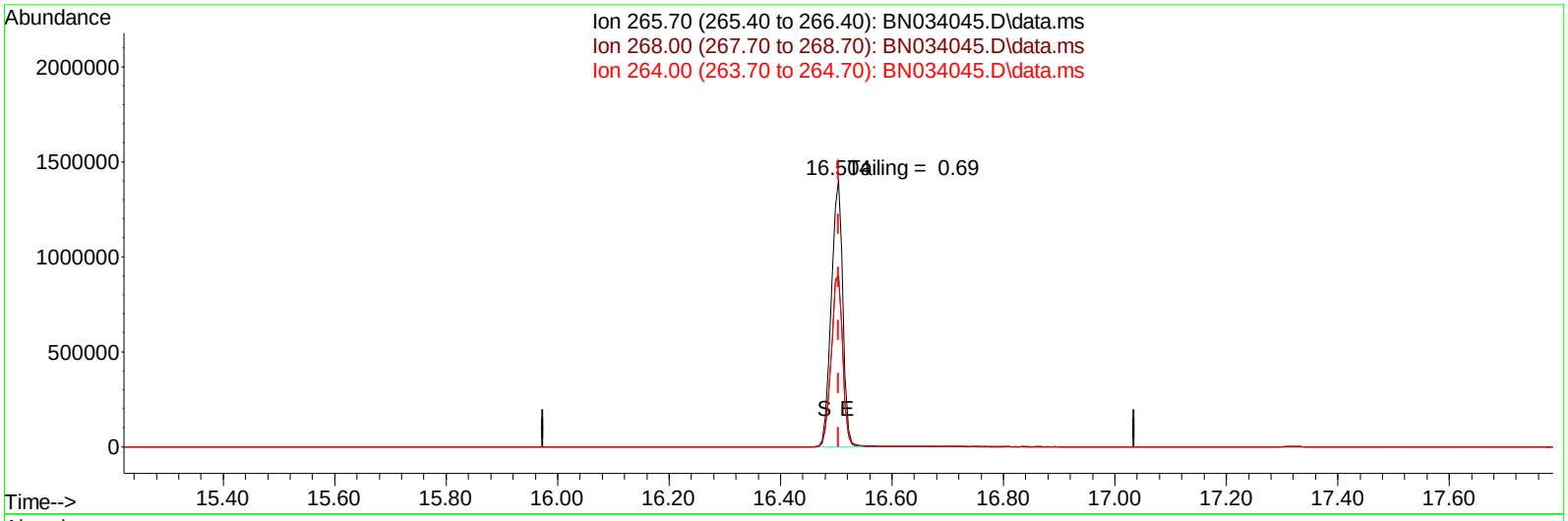
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	38.1	456356	PASS
68	69	0.00	2	1.6	7706	PASS
69	198	0.00	100	39.2	470107	PASS
70	69	0.00	2	0.5	2262	PASS
127	198	10	80	48.9	585600	PASS
197	198	0.00	2	0.5	6379	PASS
198	198	100	100	100.0	1198187	PASS
199	198	5	9	6.9	82589	PASS
275	198	10	60	27.4	328149	PASS
365	198	1	100	3.9	46936	PASS
441	198	0.01	100	11.9	142091	PASS
442	442	50	100	100.0	921941	PASS
443	442	15	24	19.2	176675	PASS

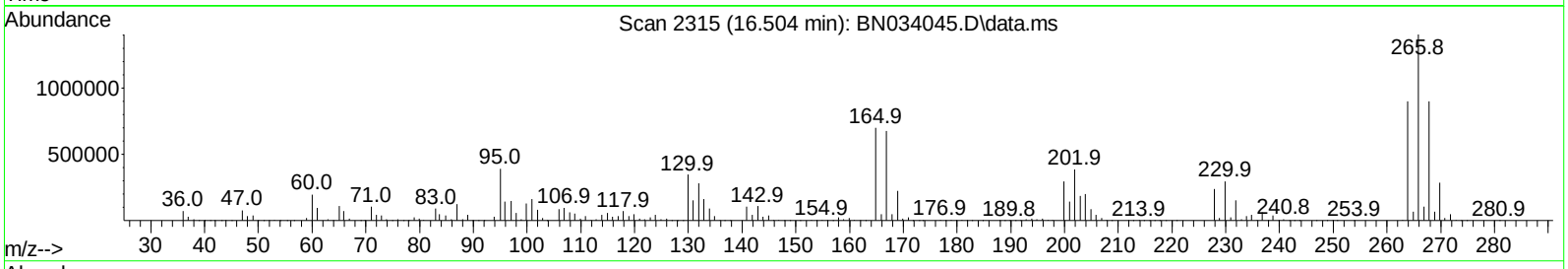
Sample Results: **BN034045.D**

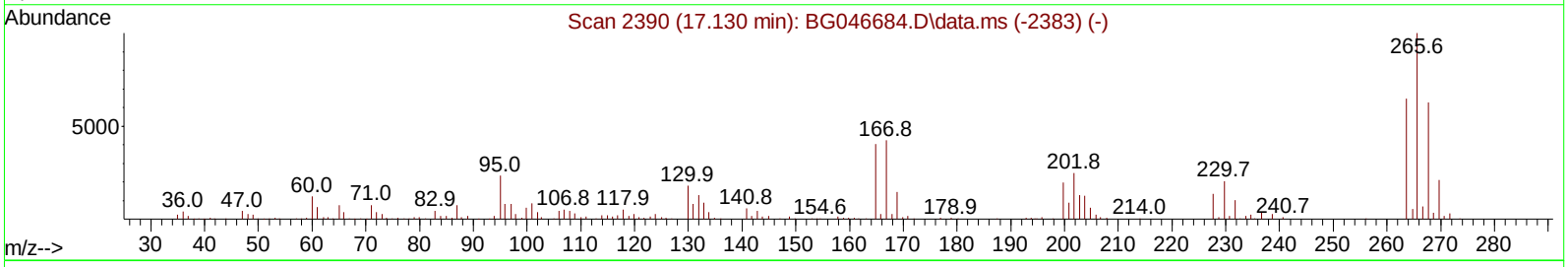
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034045.D
Acq On : 19 Sep 2024 08:54
Operator : JU/RC
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 20 04:53:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 20 04:53:44 2024
Response via : Initial Calibration







TIC: BN034045.D\data.ms

(70) Pentachlorophenol (C)

16.504min (0.000) 33339.48 ng

response 2034773

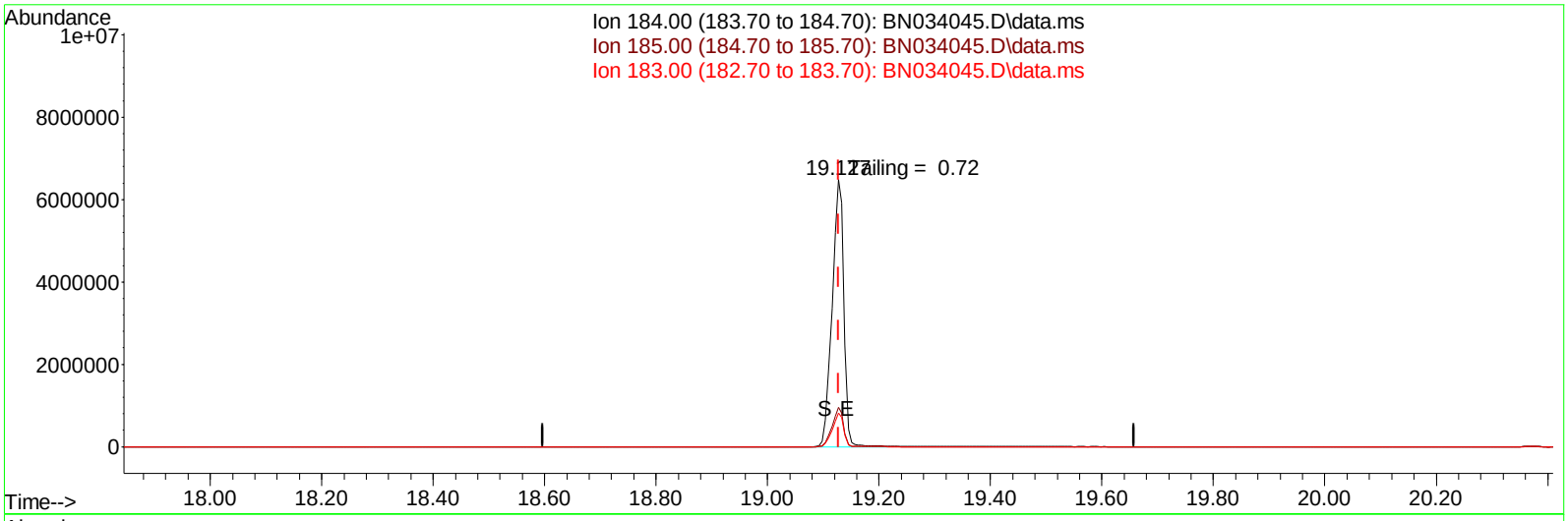
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.20	64.08
264.00	61.60	63.99
0.00	0.00	0.00

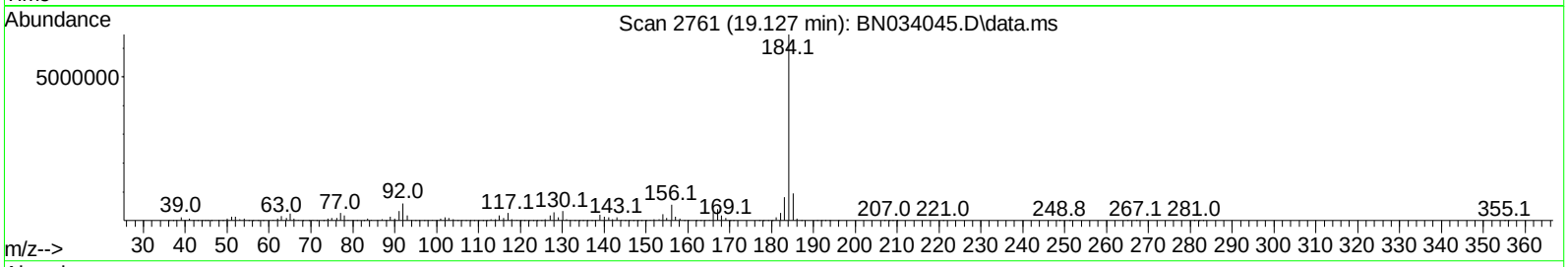
Sample Results: **BN034045.D**

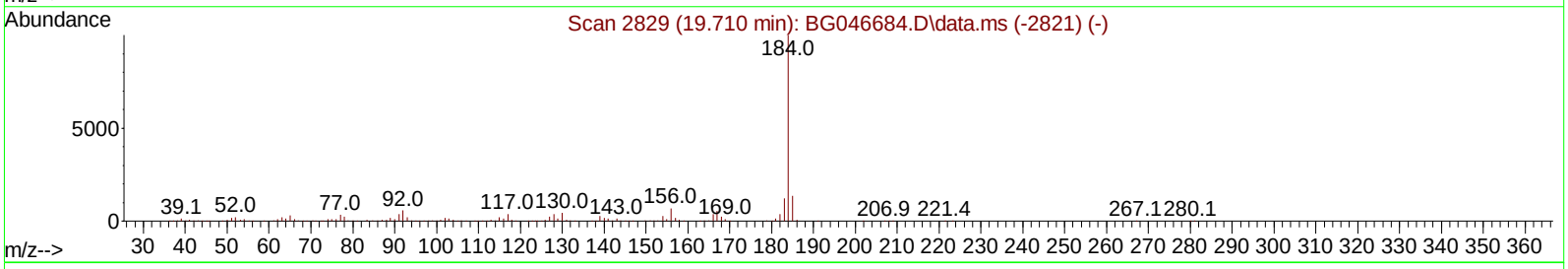
Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034045.D
Acq On : 19 Sep 2024 08:54
Operator : JU/RC
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
DFTPP

Quant Time: Sep 20 04:53:49 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270E-Tune.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Sep 20 04:53:44 2024
Response via : Initial Calibration







TIC: BN034045.D\data.ms

(77) Benzidine

19.127min (0.000) 0.00 ng

response 9558562

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	15.50	14.69
183.00	13.20	12.59
0.00	0.00	0.00

Instrument :
BNA_N
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/19/2024	BNA_N	BN034045.D
Compound Name	**Response**	**Retention Time**
DDT	4367080	20.374
DDD	37662	19.974
DDE	195	19.416
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
37857	4404937	0.86

Raw Data: **BN034047.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB163341BL	SDG No.:	P3845
Lab Sample ID:	PB163341BL	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group4
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034047.D	1	09/12/24 12:00	09/19/24 10:09	PB163341

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
534-52-1	4,6-Dinitro-2-methylphenol	0.14	U	0.14	0.20	ug/L
87-86-5	Pentachlorophenol	0.090	U	0.090	0.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	0.33		10 - 100	83%	SPK: 0.4
13127-88-3	Phenol-d6	0.26		10 - 100	65%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	0.12		10 - 131	30%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	7710	7.438			
1146-65-2	Naphthalene-d8	19800	10.201			
15067-26-2	Acenaphthene-d10	10200	14.083			
1517-22-2	Phenanthrene-d10	21700	16.845			
1719-03-5	Chrysene-d12	14000	21.062			
1520-96-3	Perylene-d12	11700	23.189			

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_N\Data\BN091924\
Data File : BN034047.D
Acq On : 19 Sep 2024 10:09
Operator : JU/RC
Sample : PB163341BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB163341BL

Quant Time: Sep 19 10:59:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

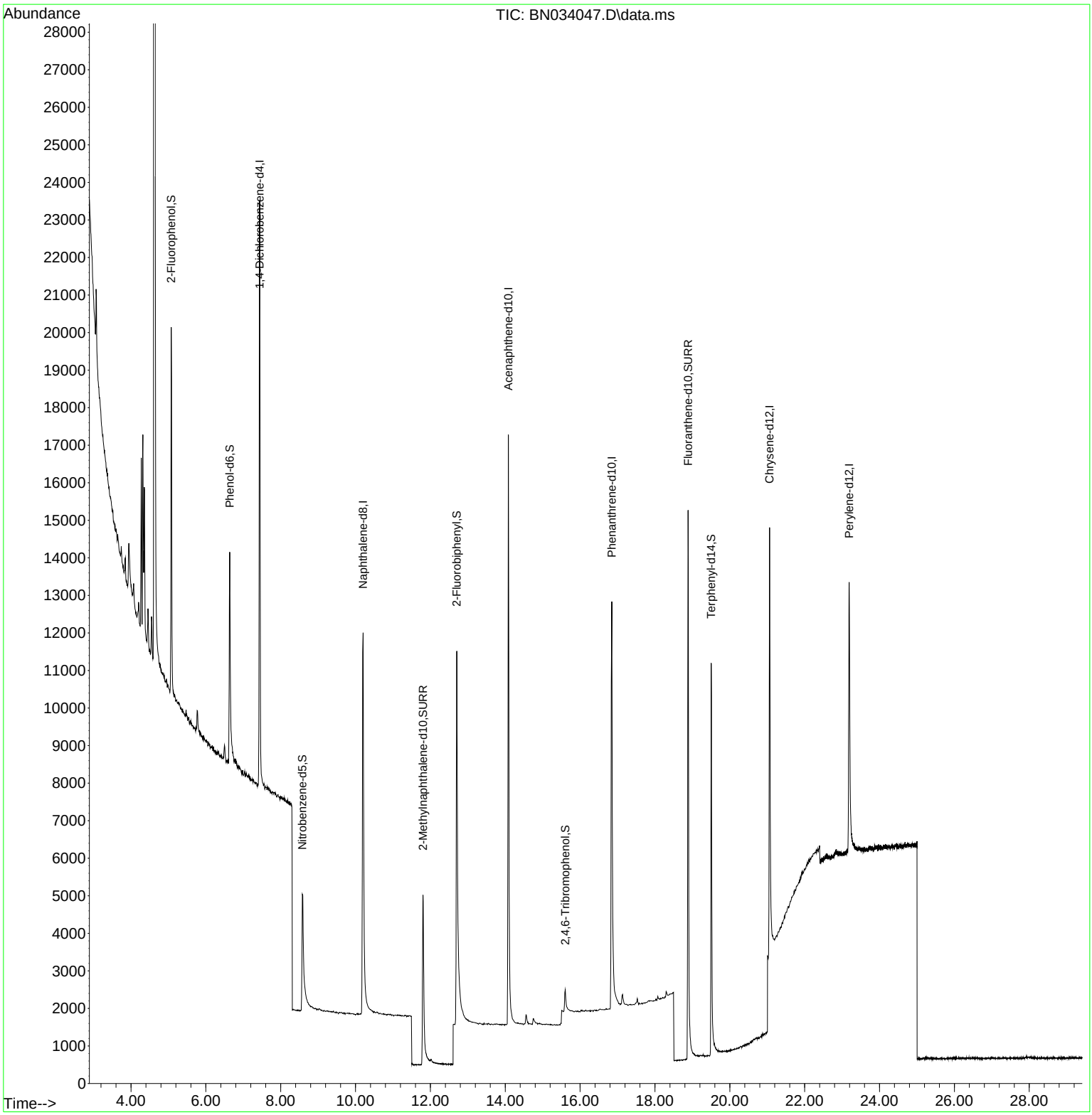
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	7.438	152	7708	0.400	ng	0.00
7) Naphthalene-d8	10.201	136	19759	0.400	ng	0.00
13) Acenaphthene-d10	14.083	164	10160	0.400	ng	0.00
19) Phenanthrene-d10	16.845	188	21734	0.400	ng	0.00
29) Chrysene-d12	21.062	240	14035	0.400	ng	0.00
35) Perylene-d12	23.189	264	11710	0.400	ng	# 0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.076	112	7300	0.334	ng	0.00
5) Phenol-d6	6.636	99	6660	0.262	ng	0.00
8) Nitrobenzene-d5	8.578	82	4571	0.302	ng	0.00
11) 2-Methylnaphthalene-d10	11.803	152	9277	0.318	ng	0.00
14) 2,4,6-Tribromophenol	15.604	330	557	0.121	ng	0.02
15) 2-Fluorobiphenyl	12.704	172	14291	0.346	ng	0.00
27) Fluoranthene-d10	18.885	212	20171	0.368	ng	0.00
31) Terphenyl-d14	19.503	244	12204	0.435	ng	0.00
Target Compounds						Qvalue

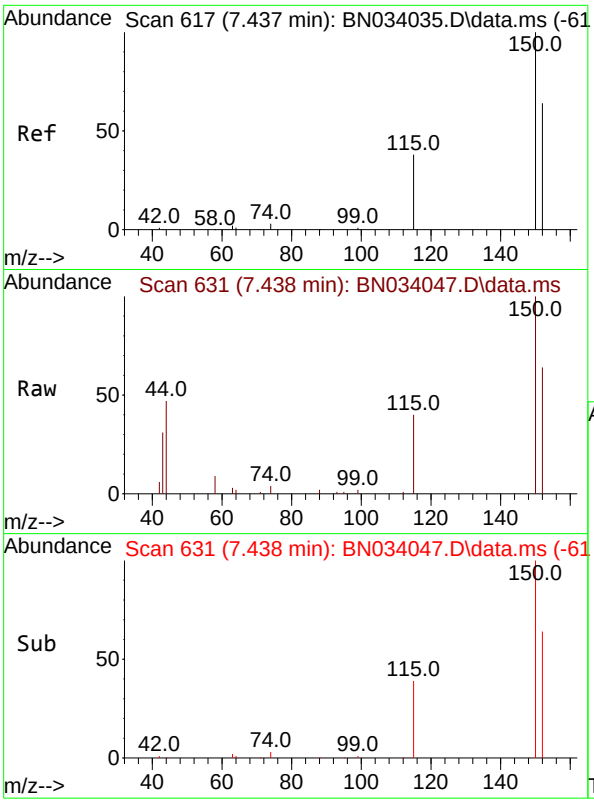
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034047.D
Acq On : 19 Sep 2024 10:09
Operator : JU/RC
Sample : PB163341BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB163341BL

Quant Time: Sep 19 10:59:19 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



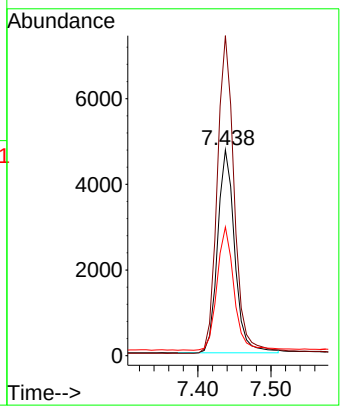


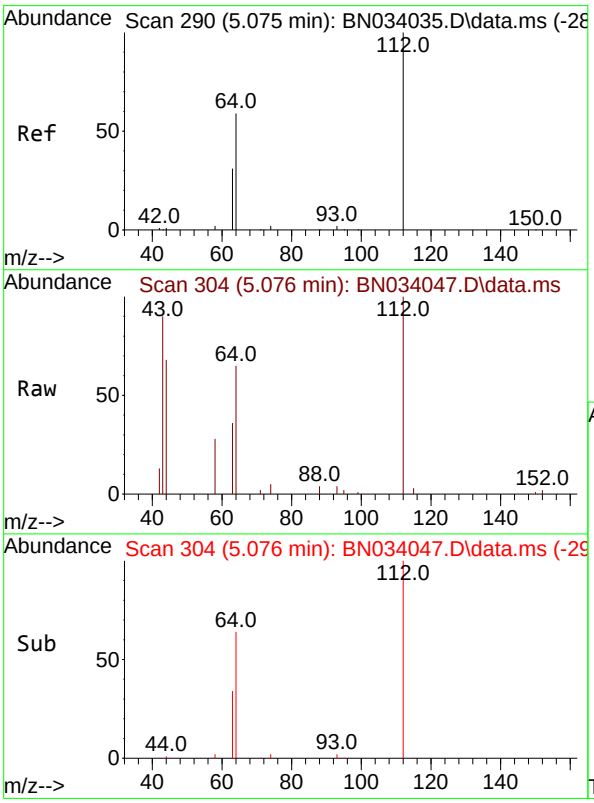
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.438 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Instrument :
BNA_N
ClientSampleId :
PB163341BL

Tgt Ion:152 Resp: 7708

Ion	Ratio	Lower	Upper
152	100		
150	155.6	124.6	187.0
115	62.5	50.0	75.0

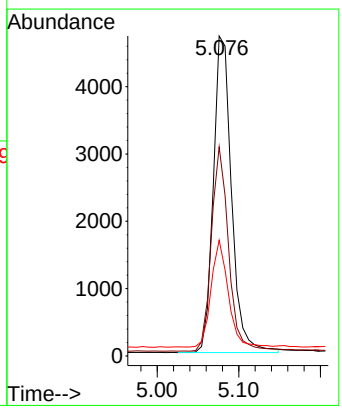


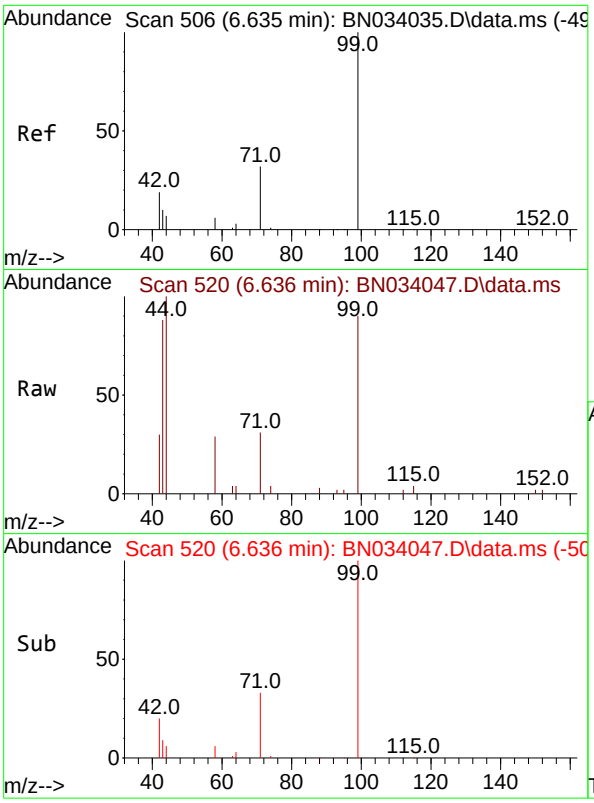


#4
2-Fluorophenol
Concen: 0.334 ng
RT: 5.076 min Scan# 304
Delta R.T. 0.001 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Tgt Ion:112 Resp: 7300

Ion	Ratio	Lower	Upper
112	100		
64	60.6	48.6	72.8
63	31.5	25.6	38.4



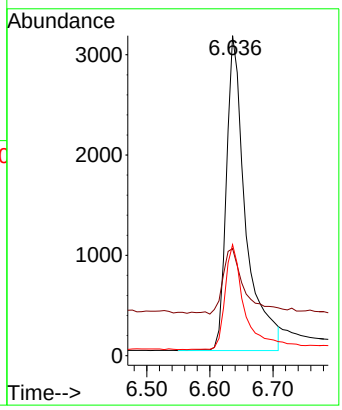


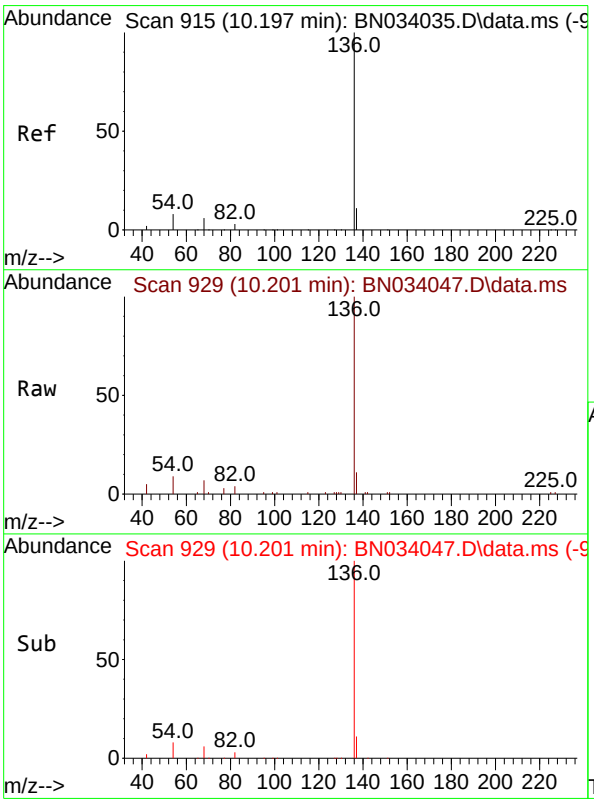
#5
Phenol-d6
Concen: 0.262 ng
RT: 6.636 min Scan# 5
Delta R.T. 0.001 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Instrument :
BNA_N
ClientSampleId :
PB163341BL

Tgt Ion: 99 Resp: 6660

Ion	Ratio	Lower	Upper
99	100		
42	22.7	17.8	26.8
71	33.0	26.2	39.2

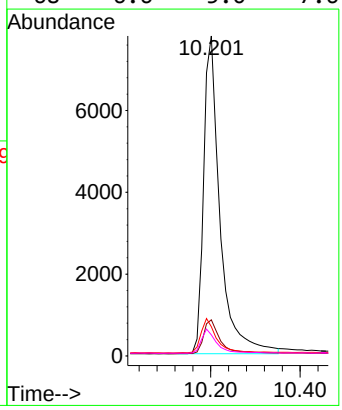


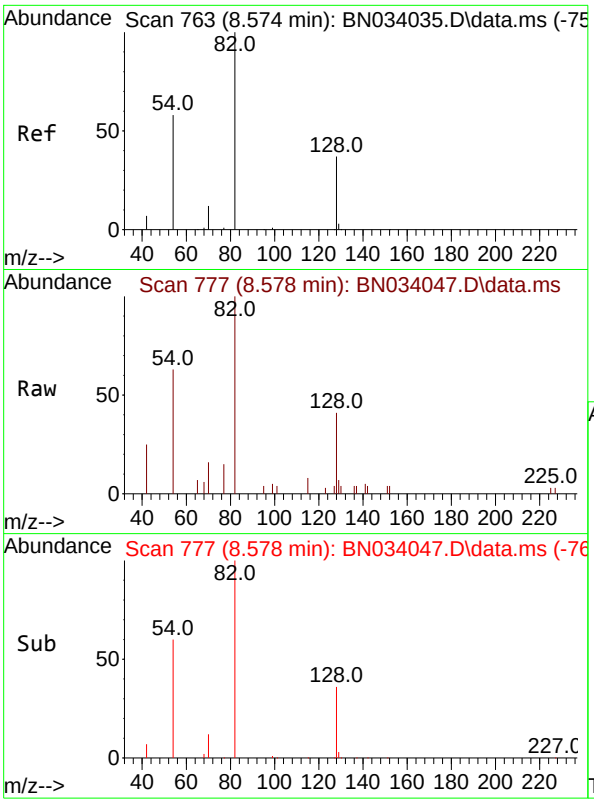


#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.201 min Scan# 929
Delta R.T. 0.004 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Tgt Ion:136 Resp: 19759

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	9.2	6.8	10.2
68	6.6	5.0	7.6



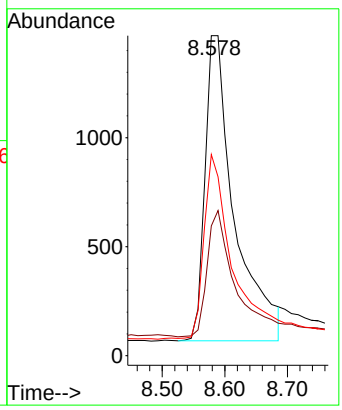


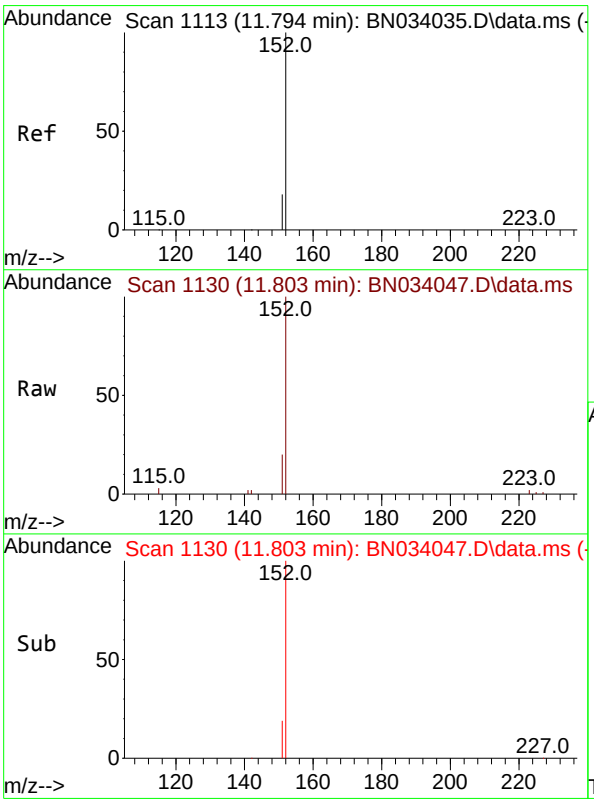
#8
Nitrobenzene-d5
Concen: 0.302 ng
RT: 8.578 min Scan# 7
Delta R.T. 0.004 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Instrument :
BNA_N
ClientSampleId :
PB163341BL

Tgt Ion: 82 Resp: 4571

Ion	Ratio	Lower	Upper
82	100		
128	40.5	31.4	47.2
54	62.9	47.4	71.0

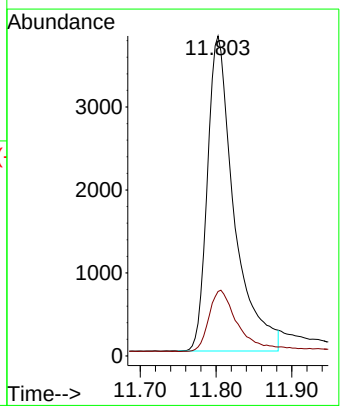


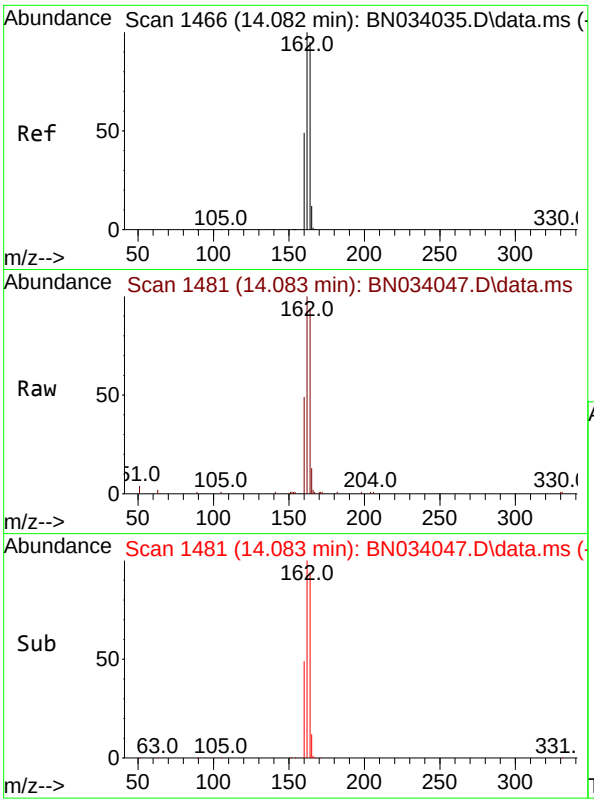


#11
2-Methylnaphthalene-d10
Concen: 0.318 ng
RT: 11.803 min Scan# 1130
Delta R.T. 0.009 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Tgt Ion:152 Resp: 9277

Ion	Ratio	Lower	Upper
152	100		
151	20.9	16.8	25.2



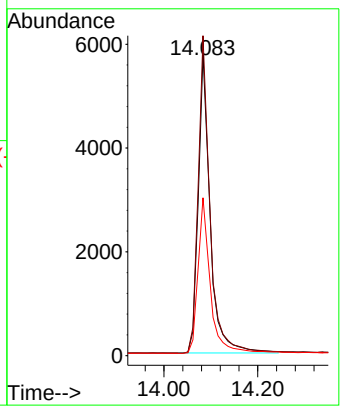


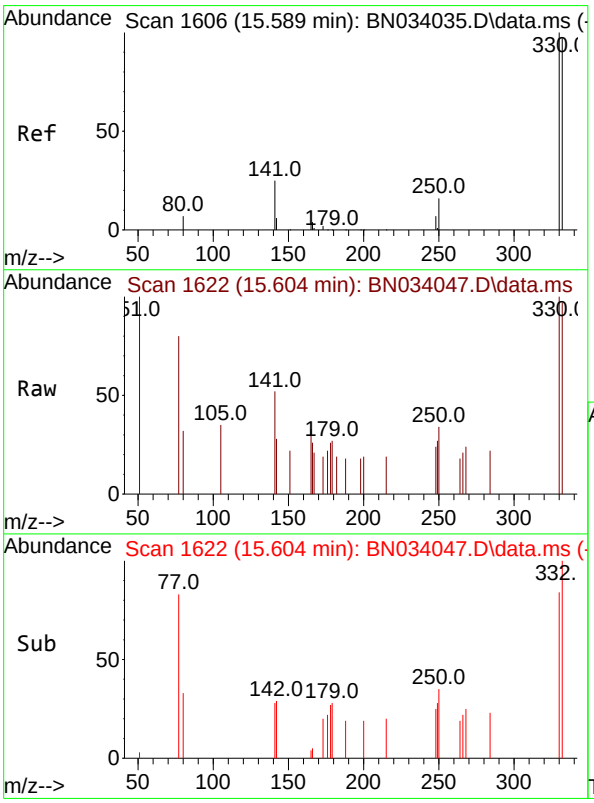
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.083 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Instrument :
BNA_N
ClientSampleId :
PB163341BL

Tgt Ion:164 Resp: 10160

Ion	Ratio	Lower	Upper
164	100		
162	106.2	84.2	126.2
160	52.4	41.7	62.5

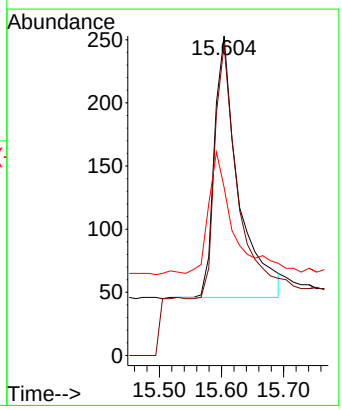


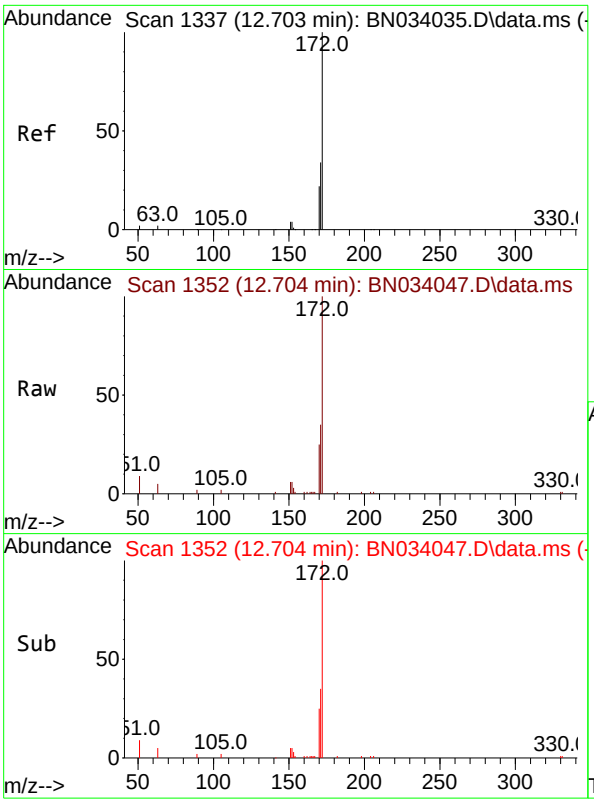


#14
2,4,6-Tribromophenol
Concen: 0.121 ng
RT: 15.604 min Scan# 1622
Delta R.T. 0.015 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Tgt Ion:330 Resp: 557

Ion	Ratio	Lower	Upper
330	100		
332	93.7	77.4	116.0
141	46.0	35.9	53.9



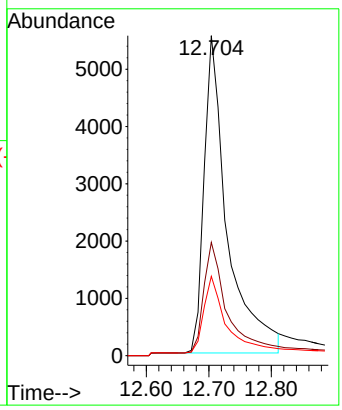


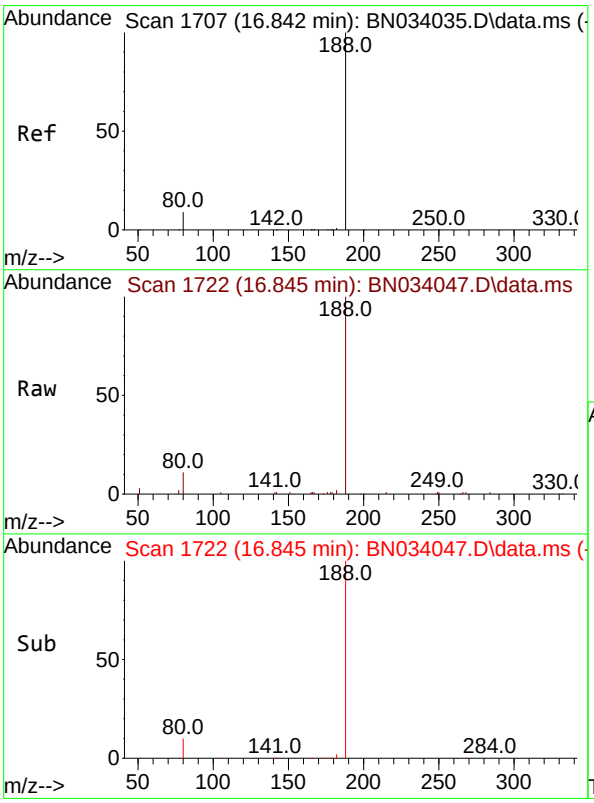
#15
2-Fluorobiphenyl
Concen: 0.346 ng
RT: 12.704 min Scan# 1
Delta R.T. 0.001 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Instrument :
BNA_N
ClientSampleId :
PB163341BL

Tgt Ion:172 Resp: 14291

Ion	Ratio	Lower	Upper
172	100		
171	35.4	27.3	40.9
170	24.8	18.1	27.1

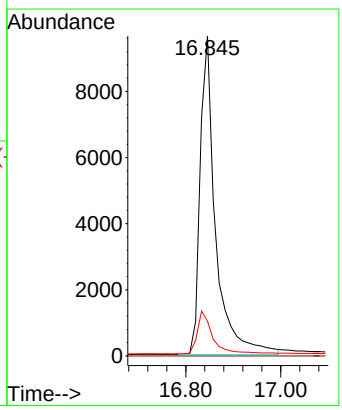


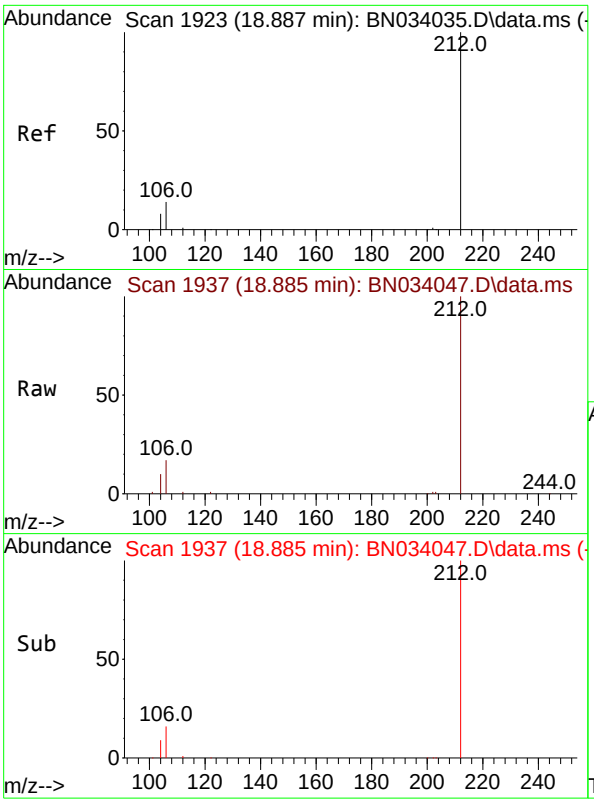


#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.845 min Scan# 1722
Delta R.T. 0.003 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Tgt Ion:188 Resp: 21734

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	10.9	7.4	11.0



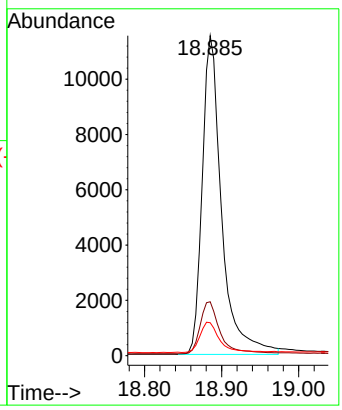


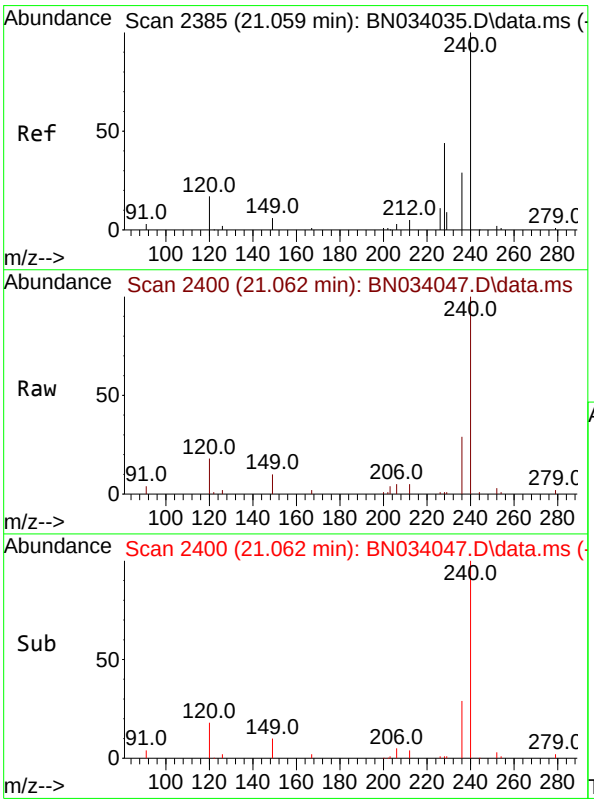
#27
Fluoranthene-d10
Concen: 0.368 ng
RT: 18.885 min Scan# 1
Delta R.T. -0.002 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Instrument :
BNA_N
ClientSampleId :
PB163341BL

Tgt Ion:212 Resp: 20171

Ion	Ratio	Lower	Upper
212	100		
106	16.6	13.4	20.2
104	9.5	7.8	11.6

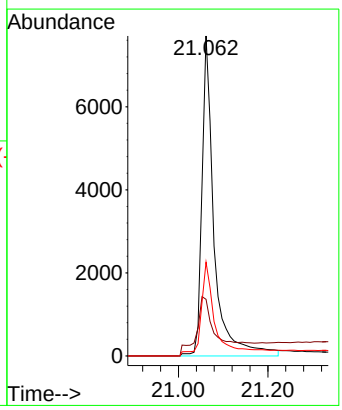


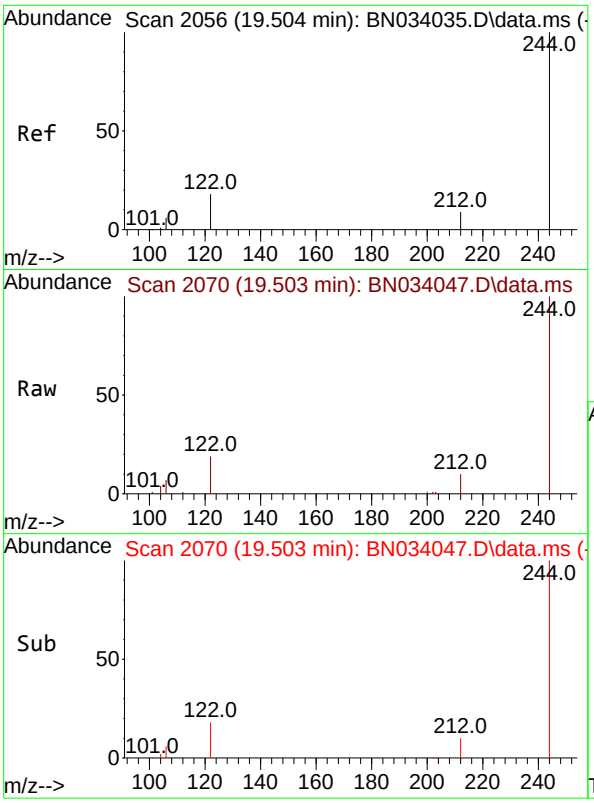


#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.062 min Scan# 2400
Delta R.T. 0.003 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Tgt Ion:240 Resp: 14035

Ion	Ratio	Lower	Upper
240	100		
120	17.7	13.5	20.3
236	29.3	23.4	35.0



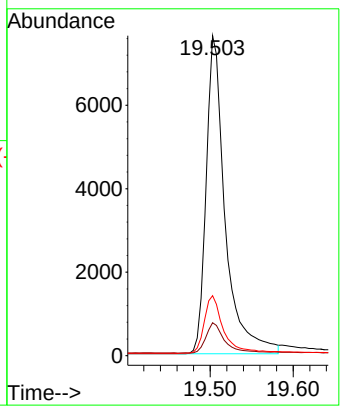


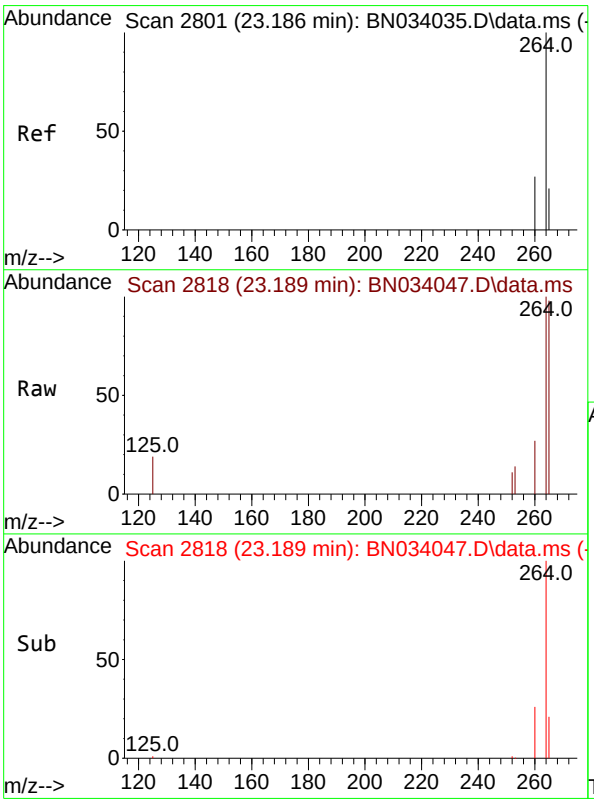
#31
Terphenyl-d14
Concen: 0.435 ng
RT: 19.503 min Scan# 2
Delta R.T. -0.002 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Instrument :
BNA_N
ClientSampleId :
PB163341BL

Tgt Ion:244 Resp: 12204

Ion	Ratio	Lower	Upper
244	100		
212	10.3	7.8	11.6
122	18.7	14.8	22.2

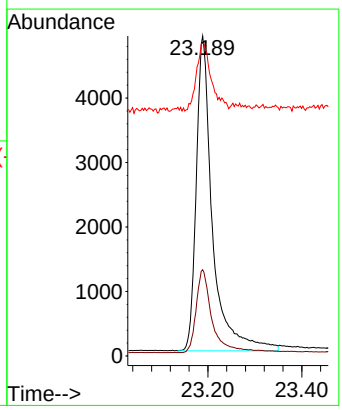




#35
Perylene-d12
Concen: 0.400 ng
RT: 23.189 min Scan# 2818
Delta R.T. 0.003 min
Lab File: BN034047.D
Acq: 19 Sep 2024 10:09

Tgt Ion:264 Resp: 11710

Ion	Ratio	Lower	Upper
264	100		
260	27.0	21.7	32.5
265	97.7	52.1	78.1#



Raw Data: **BN034052.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB163341BS	SDG No.:	P3845
Lab Sample ID:	PB163341BS	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group4
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034052.D	1	09/12/24 12:00	09/19/24 16:27	PB163341

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
534-52-1	4,6-Dinitro-2-methylphenol	0.43		0.14	0.20	ug/L
87-86-5	Pentachlorophenol	0.31		0.090	0.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	0.41	*	10 - 100	102%	SPK: 0.4
13127-88-3	Phenol-d6	0.40	*	10 - 100	101%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	0.38		10 - 131	95%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	8640	7.431			
1146-65-2	Naphthalene-d8	24800	10.191			
15067-26-2	Acenaphthene-d10	13400	14.083			
1517-22-2	Phenanthrene-d10	22500	16.833			
1719-03-5	Chrysene-d12	18700	21.062			
1520-96-3	Perylene-d12	24200	23.192			

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_N\Data\BN091924\
Data File : BN034052.D
Acq On : 19 Sep 2024 16:27
Operator : JU/RC
Sample : PB163341BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Quant Time: Sep 19 17:03:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

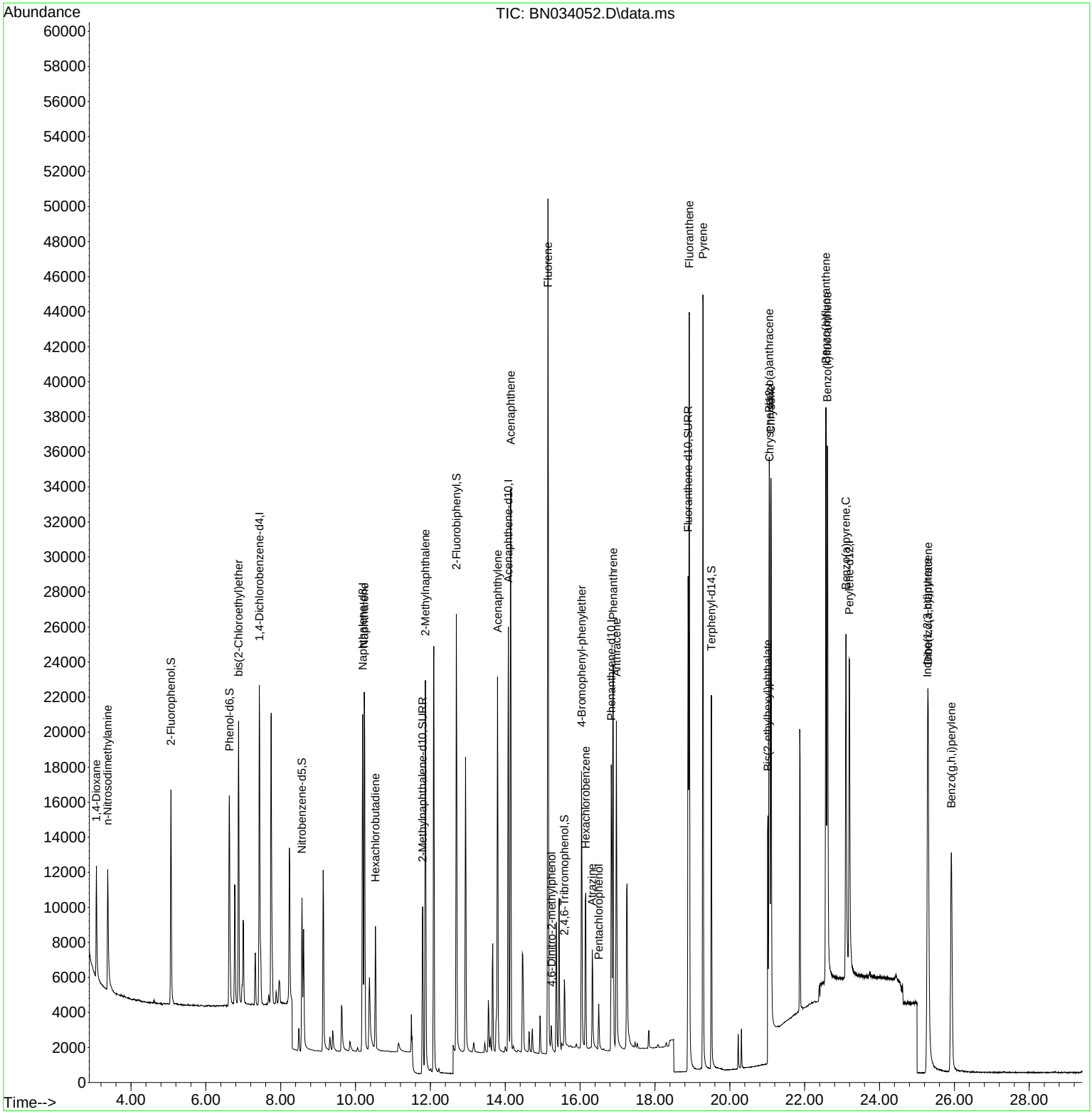
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.431	152	8638	0.400	ng		0.00
7) Naphthalene-d8	10.191	136	24792	0.400	ng		0.00
13) Acenaphthene-d10	14.083	164	13364	0.400	ng		0.00
19) Phenanthrene-d10	16.833	188	22485	0.400	ng	#	0.00
29) Chrysene-d12	21.062	240	18706	0.400	ng		0.00
35) Perylene-d12	23.192	264	24163	0.400	ng	#	0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.069	112	10051	0.410	ng		0.00
5) Phenol-d6	6.629	99	11532	0.404	ng		0.00
8) Nitrobenzene-d5	8.568	82	7405	0.390	ng		0.00
11) 2-Methylnaphthalene-d10	11.791	152	14256	0.389	ng		0.00
14) 2,4,6-Tribromophenol	15.580	330	2310	0.382	ng		0.00
15) 2-Fluorobiphenyl	12.693	172	22489	0.414	ng		0.00
27) Fluoranthene-d10	18.885	212	31002	0.546	ng		0.00
31) Terphenyl-d14	19.508	244	20465	0.548	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.075	88	4294	0.398	ng		93
3) n-Nitrosodimethylamine	3.379	42	4909	0.399	ng	#	96
6) bis(2-Chloroethyl)ether	6.874	93	10756	0.426	ng		98
9) Naphthalene	10.233	128	27551	0.405	ng		99
10) Hexachlorobutadiene	10.532	225	5271	0.411	ng	#	100
12) 2-Methylnaphthalene	11.867	142	17152	0.387	ng		100
16) Acenaphthylene	13.795	152	22769	0.398	ng		100
17) Acenaphthene	14.147	154	16361	0.399	ng		99
18) Fluorene	15.142	166	20666	0.384	ng		100
20) 4,6-Dinitro-2-methylph...	15.238	198	1220	0.430	ng	#	66
21) 4-Bromophenyl-phenylether	16.039	248	6186	0.489	ng	#	73
22) Hexachlorobenzene	16.151	284	7185	0.507	ng		99
23) Atrazine	16.324	200	5053	0.482	ng	#	93
24) Pentachlorophenol	16.498	266	1432	0.306	ng		99
25) Phenanthrene	16.883	178	24909	0.386	ng		100
26) Anthracene	16.970	178	20352	0.386	ng		100
28) Fluoranthene	18.918	202	40425	0.540	ng		100
30) Pyrene	19.285	202	40878	0.518	ng		100
32) Benzo(a)anthracene	21.053	228	22880	0.387	ng		99
33) Chrysene	21.098	228	26758	0.379	ng		100
34) Bis(2-ethylhexyl)phtha...	21.017	149	10935	0.444	ng		98
36) Indeno(1,2,3-cd)pyrene	25.282	276	28323	0.274	ng		95
37) Benzo(b)fluoranthene	22.566	252	37119	0.392	ng		97
38) Benzo(k)fluoranthene	22.607	252	40608	0.409	ng	#	94
39) Benzo(a)pyrene	23.101	252	30535	0.396	ng		95
40) Dibenzo(a,h)anthracene	25.300	278	22061	0.274	ng		97
41) Benzo(g,h,i)perylene	25.920	276	24793	0.274	ng		96

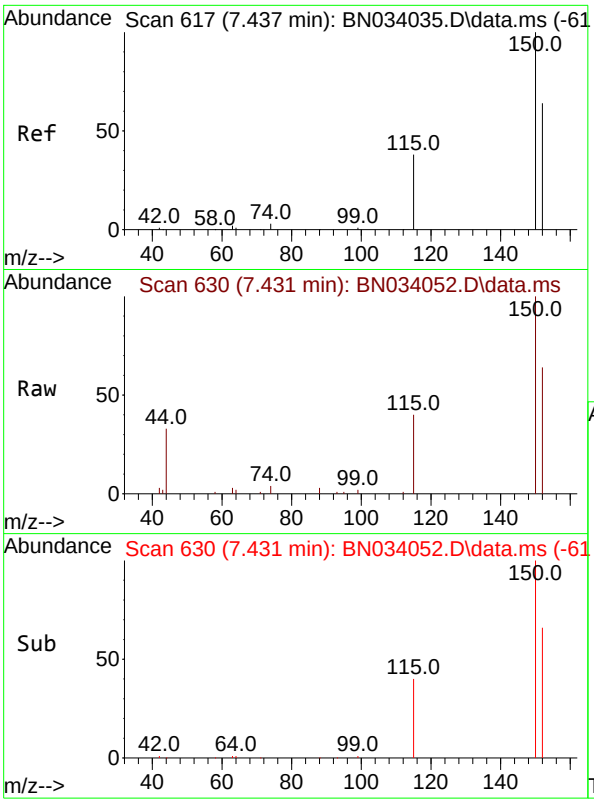
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034052.D
Acq On : 19 Sep 2024 16:27
Operator : JU/RC
Sample : PB163341BS
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Quant Time: Sep 19 17:03:32 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



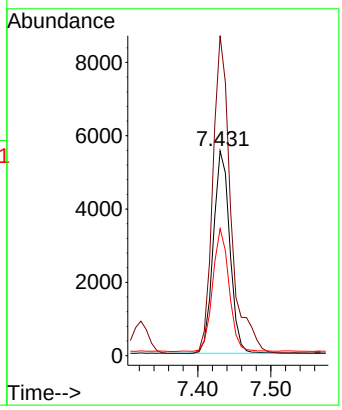


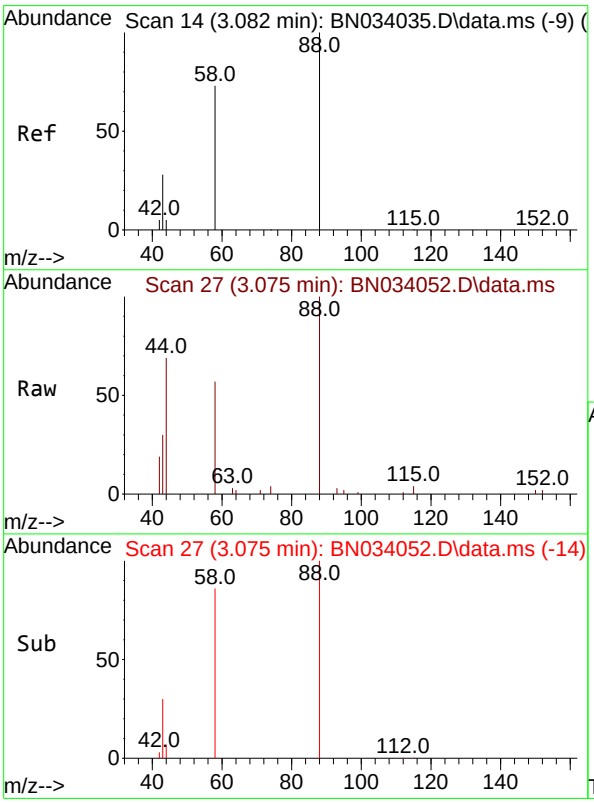
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.431 min Scan# 6
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:152 Resp: 8638

Ion	Ratio	Lower	Upper
152	100		
150	156.2	124.6	187.0
115	62.0	50.0	75.0

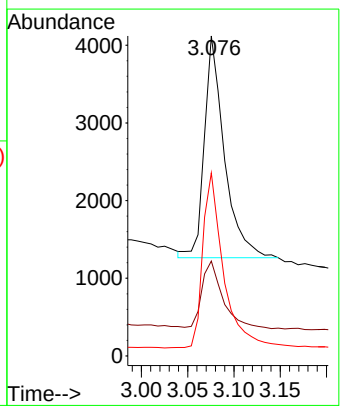


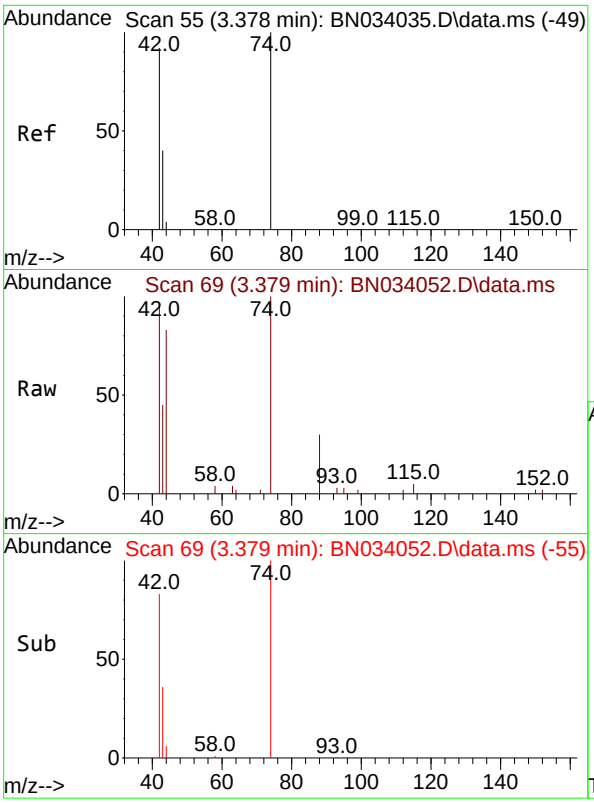


#2
1,4-Dioxane
Concen: 0.398 ng
RT: 3.075 min Scan# 27
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion: 88 Resp: 4294

Ion	Ratio	Lower	Upper
88	100		
43	32.0	25.8	38.8
58	81.8	58.8	88.2



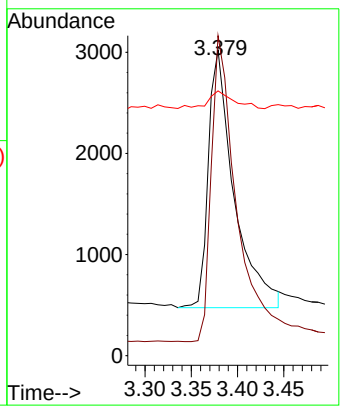


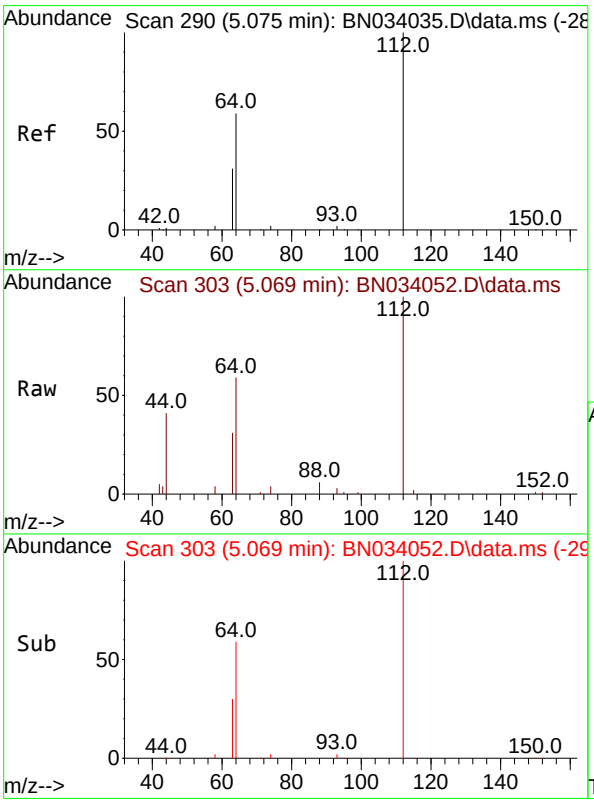
#3
n-Nitrosodimethylamine
Concen: 0.399 ng
RT: 3.379 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion: 42 Resp: 4909

Ion	Ratio	Lower	Upper
42	100		
74	116.7	94.6	142.0
44	6.9	12.4	18.6#

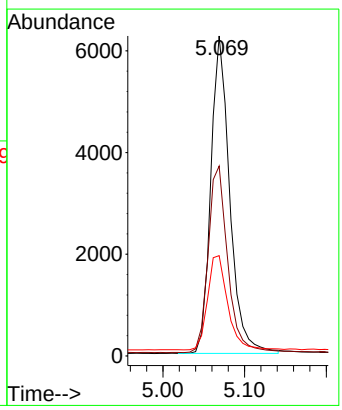


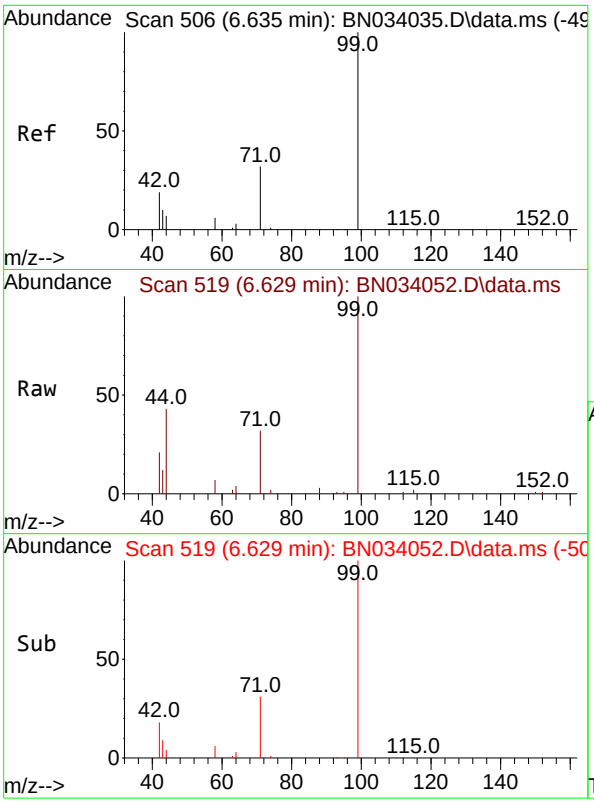


#4
2-Fluorophenol
Concen: 0.410 ng
RT: 5.069 min Scan# 303
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:112 Resp: 10051

Ion	Ratio	Lower	Upper
112	100		
64	60.8	48.6	72.8
63	31.7	25.6	38.4



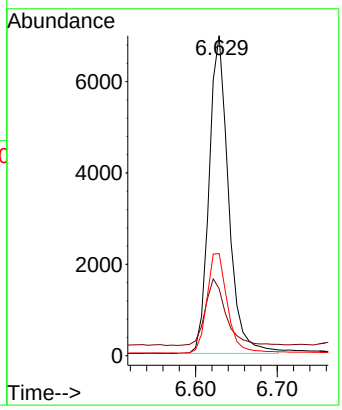


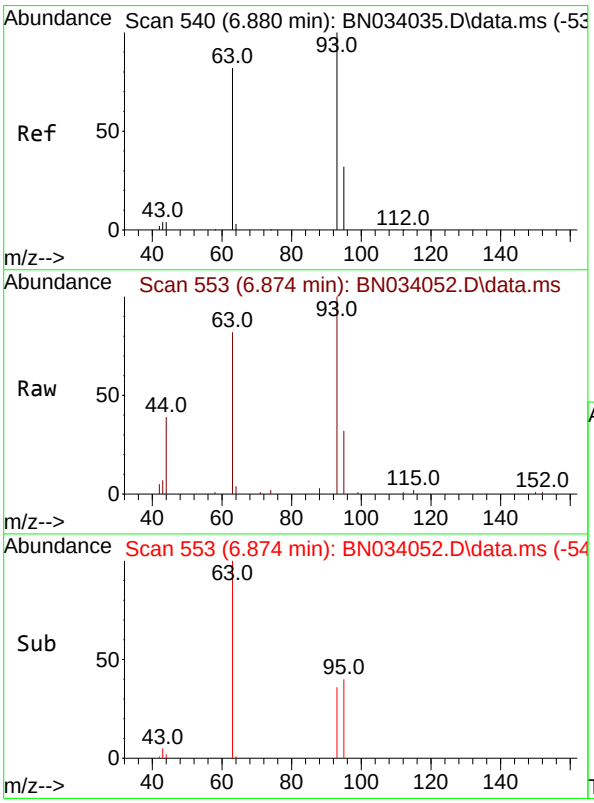
#5
Phenol-d6
Concen: 0.404 ng
RT: 6.629 min Scan# 5
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion: 99 Resp: 11532

Ion	Ratio	Lower	Upper
99	100		
42	22.3	17.8	26.8
71	33.0	26.2	39.2

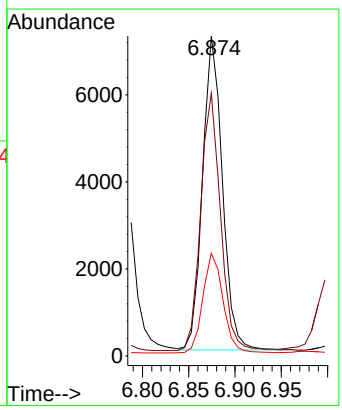


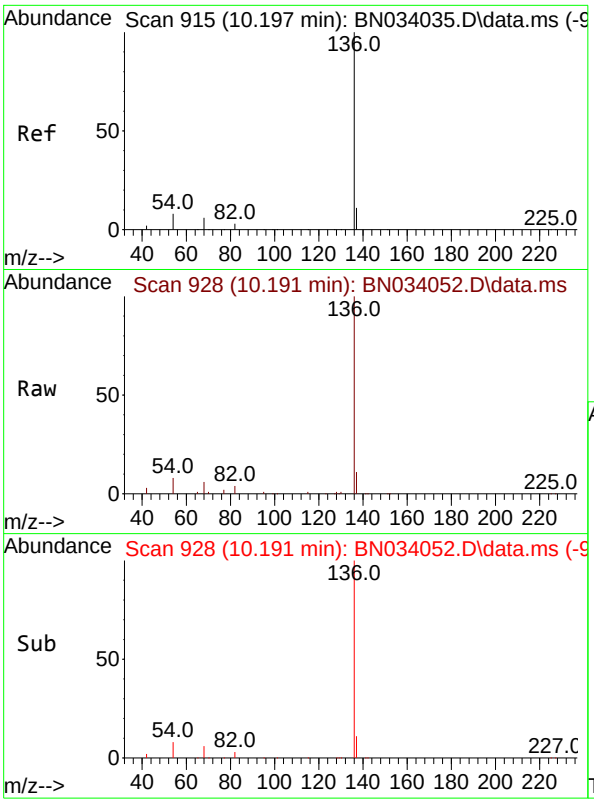


#6
bis(2-Chloroethyl)ether
Concen: 0.426 ng
RT: 6.874 min Scan# 553
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion: 93 Resp: 10756

Ion	Ratio	Lower	Upper
93	100		
63	82.0	67.3	100.9
95	32.4	26.8	40.2



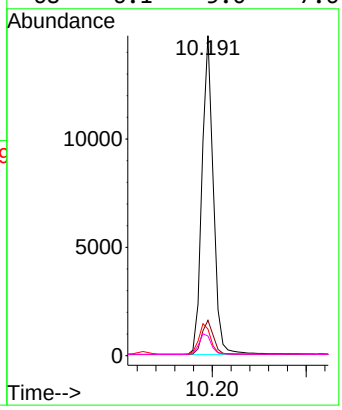


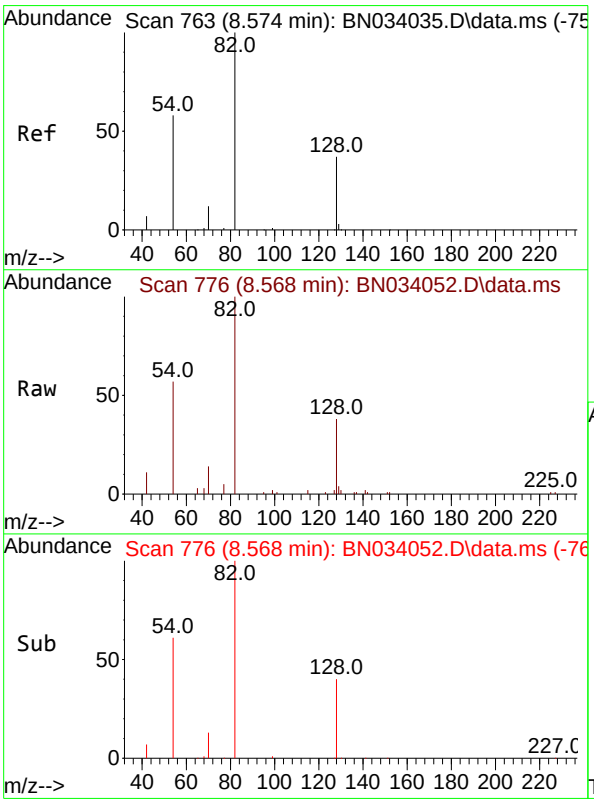
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.191 min Scan# 9
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:136 Resp: 24792

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.6
54	8.3	6.8	10.2
68	6.1	5.0	7.6

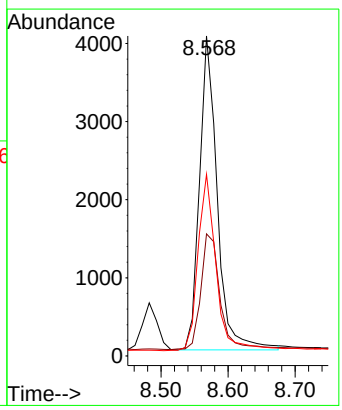


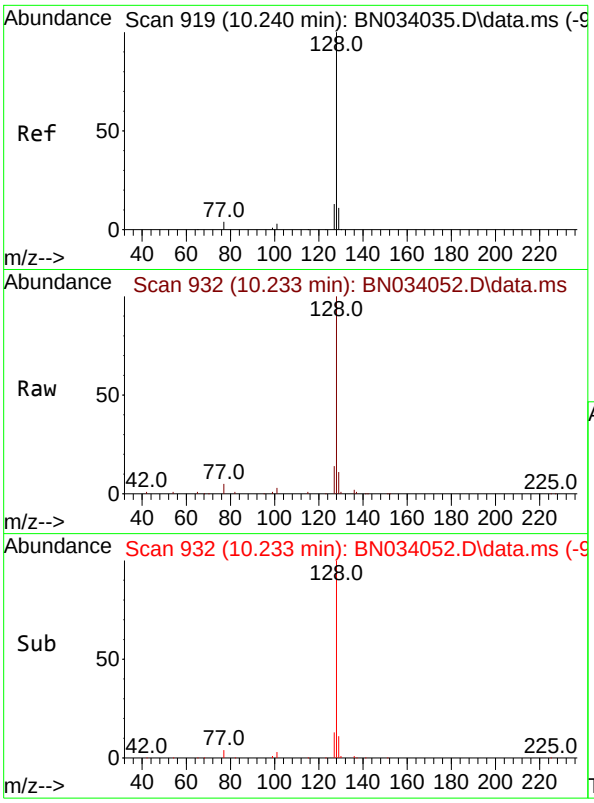


#8
Nitrobenzene-d5
Concen: 0.390 ng
RT: 8.568 min Scan# 776
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion: 82 Resp: 7405

Ion	Ratio	Lower	Upper
82	100		
128	38.1	31.4	47.2
54	56.8	47.4	71.0



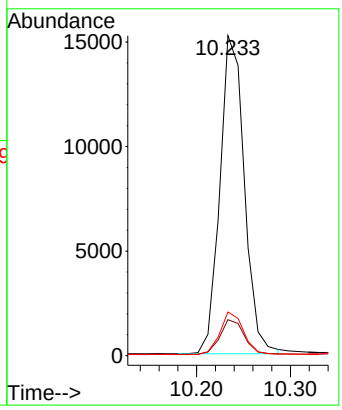


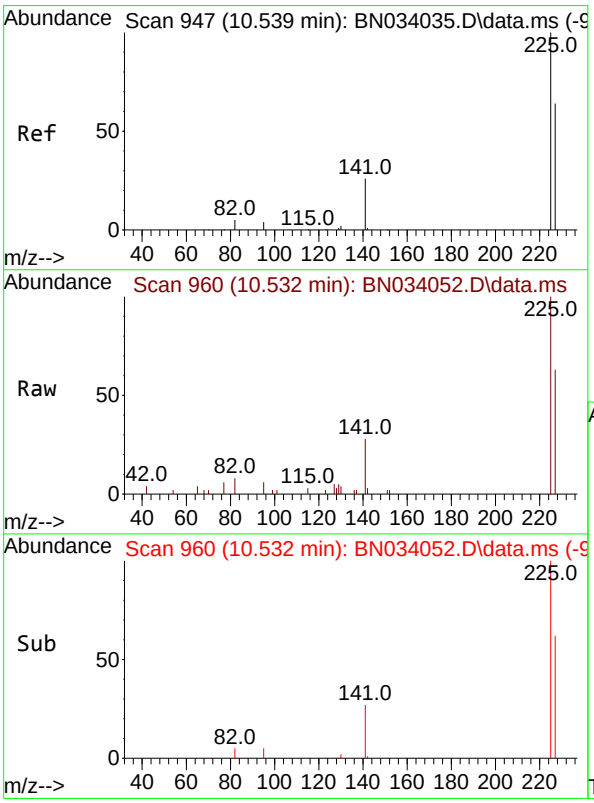
#9
Naphthalene
Concen: 0.405 ng
RT: 10.233 min Scan# 9
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:128 Resp: 27551

Ion	Ratio	Lower	Upper
128	100		
129	11.2	9.2	13.8
127	13.7	10.7	16.1

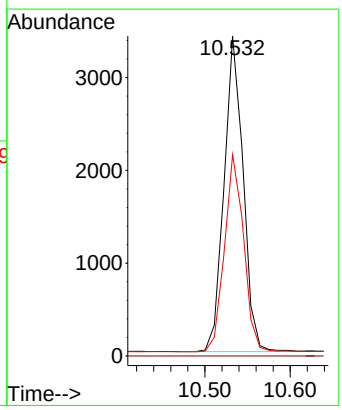


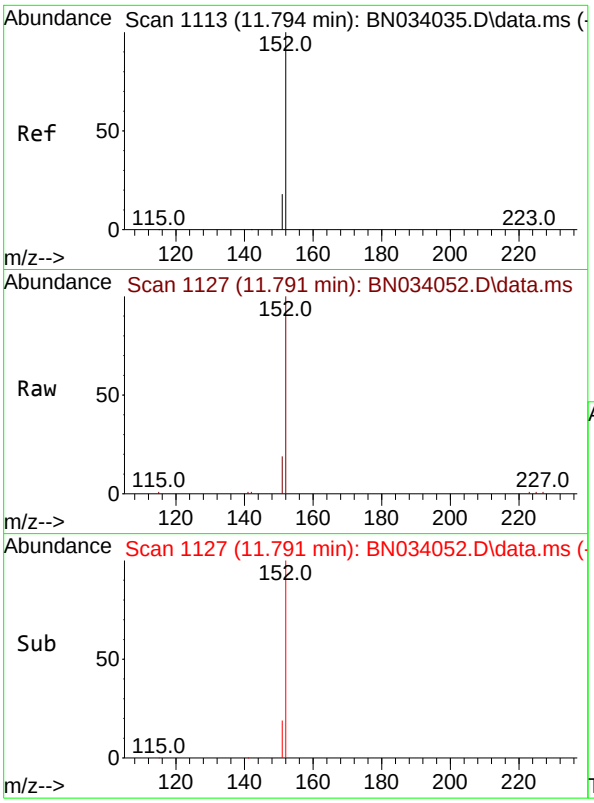


#10
Hexachlorobutadiene
Concen: 0.411 ng
RT: 10.532 min Scan# 960
Delta R.T. -0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:225 Resp: 5271

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	62.9	50.5	75.7



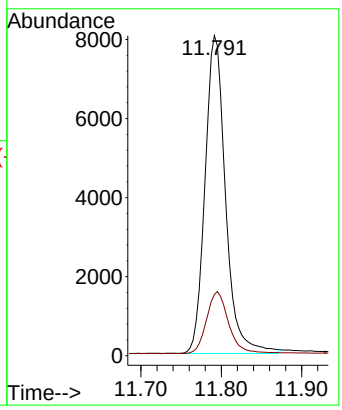


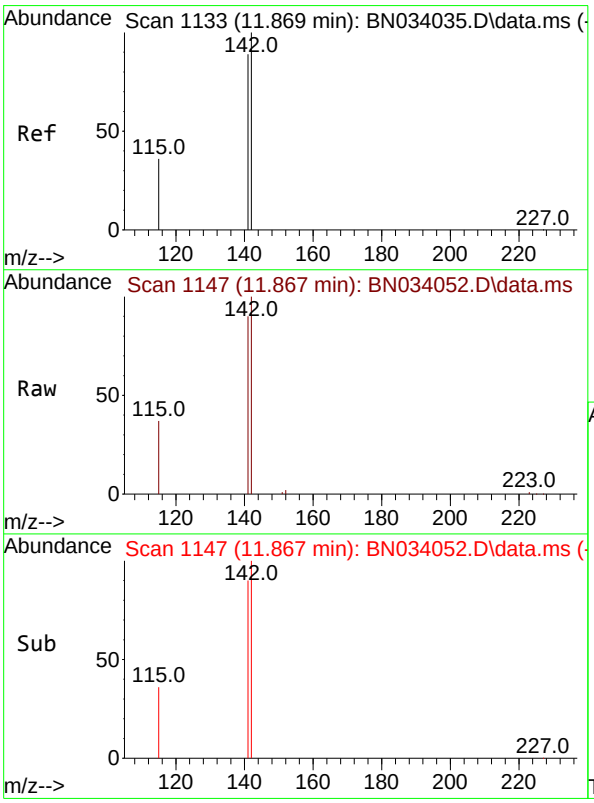
#11
2-Methylnaphthalene-d10
Concen: 0.389 ng
RT: 11.791 min Scan# 11
Delta R.T. -0.002 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:152 Resp: 14256

Ion	Ratio	Lower	Upper
152	100		
151	20.8	16.8	25.2

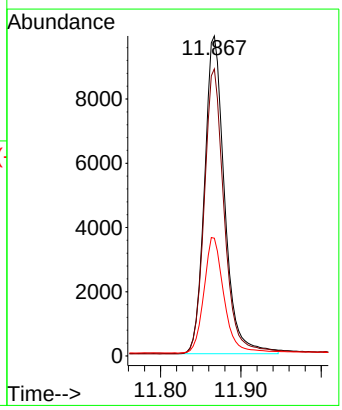


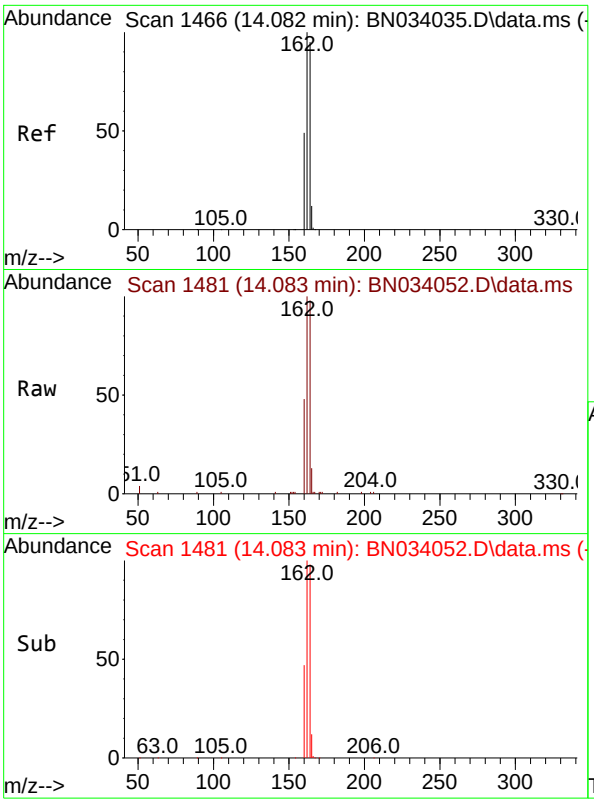


#12
2-Methylnaphthalene
Concen: 0.387 ng
RT: 11.867 min Scan# 1147
Delta R.T. -0.002 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:142 Resp: 17152

Ion	Ratio	Lower	Upper
142	100		
141	89.7	71.6	107.4
115	36.8	30.0	45.0



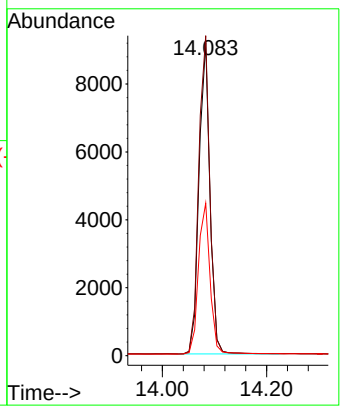


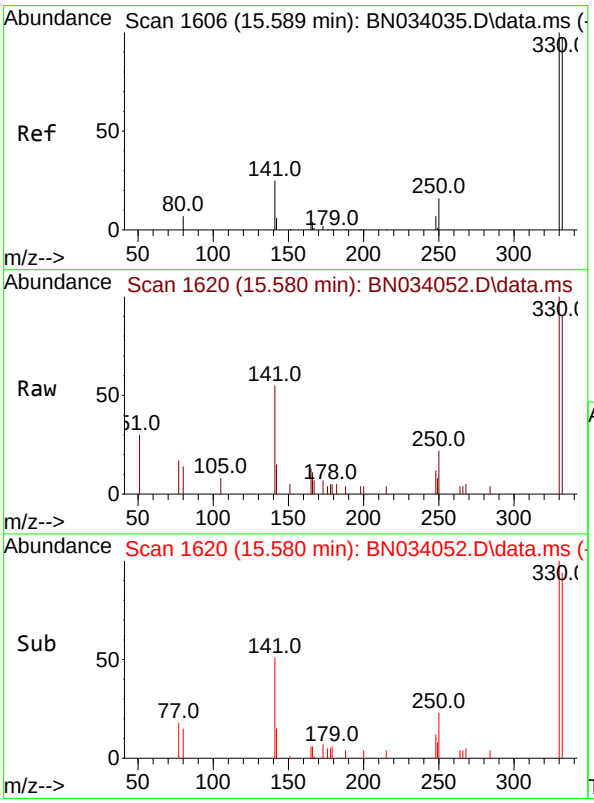
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.083 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:164 Resp: 13364

Ion	Ratio	Lower	Upper
164	100		
162	102.3	84.2	126.2
160	48.7	41.7	62.5

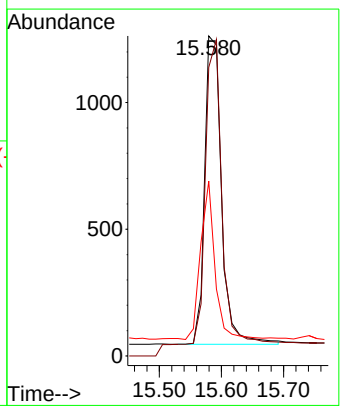


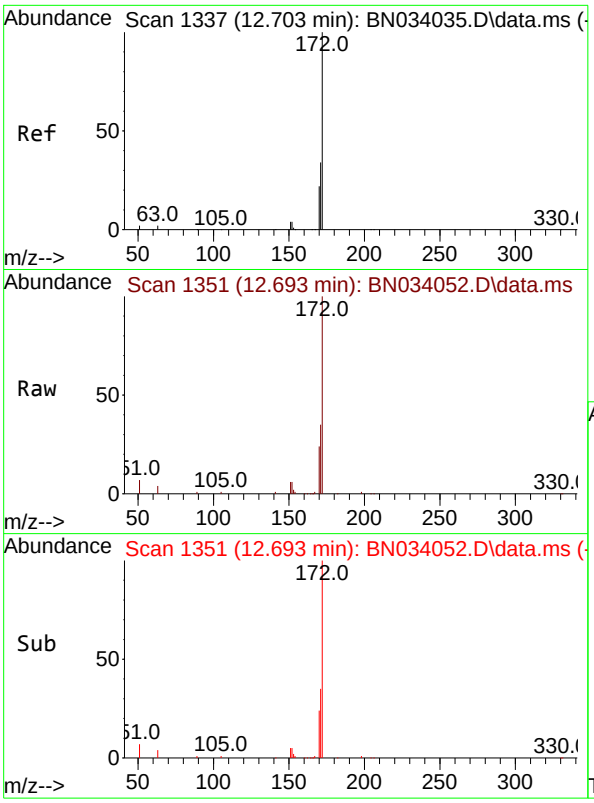


#14
2,4,6-Tribromophenol
Concen: 0.382 ng
RT: 15.580 min Scan# 1620
Delta R.T. -0.009 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:330 Resp: 2310

Ion	Ratio	Lower	Upper
330	100		
332	94.9	77.4	116.0
141	42.3	35.9	53.9



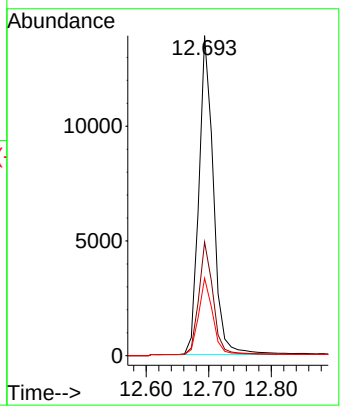


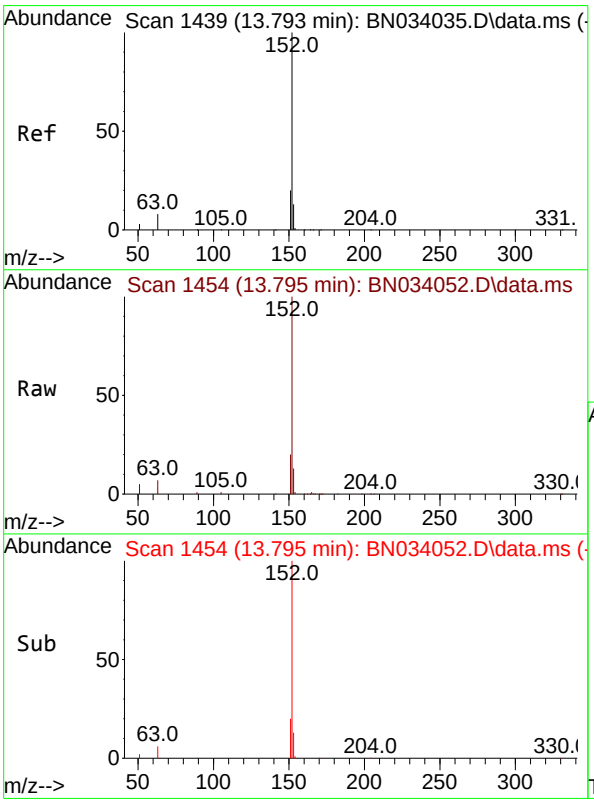
#15
2-Fluorobiphenyl
Concen: 0.414 ng
RT: 12.693 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:172 Resp: 22489

Ion	Ratio	Lower	Upper
172	100		
171	35.5	27.3	40.9
170	24.2	18.1	27.1

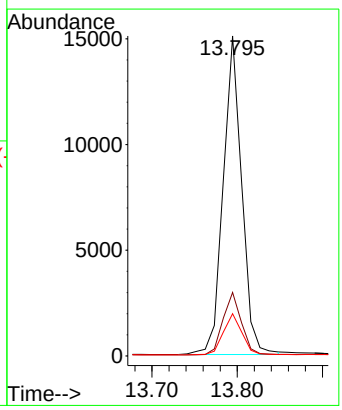


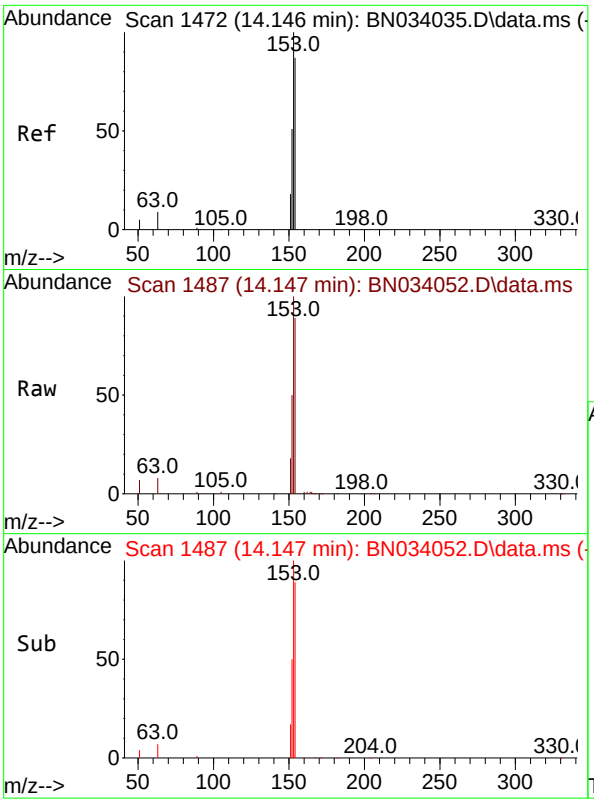


#16
Acenaphthylene
Concen: 0.398 ng
RT: 13.795 min Scan# 1454
Delta R.T. 0.001 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:152 Resp: 22769

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.6	23.4
153	13.0	10.3	15.5



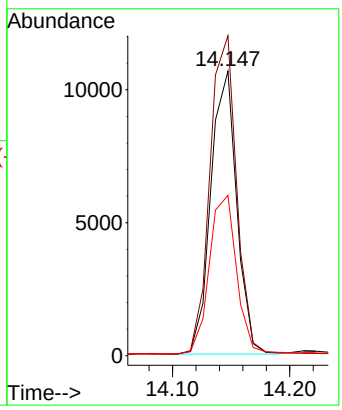


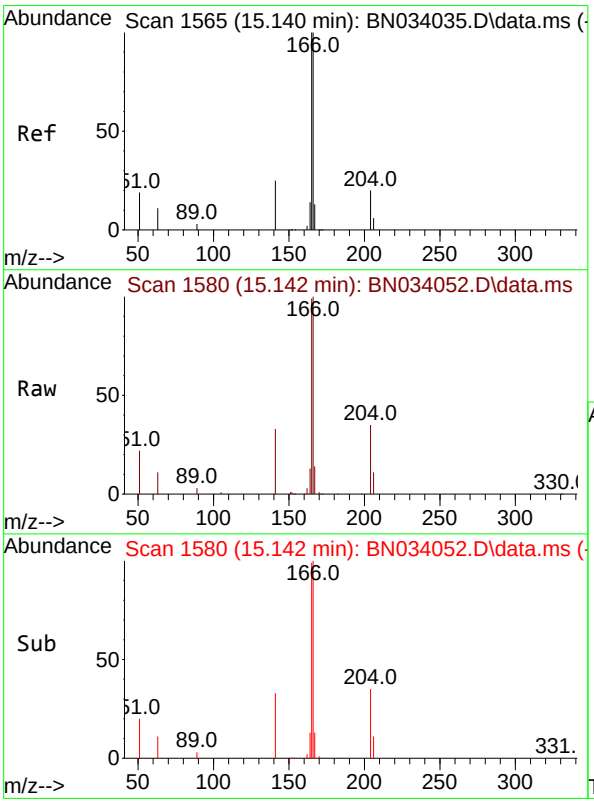
#17
Acenaphthene
Concen: 0.399 ng
RT: 14.147 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:154 Resp: 16361

Ion	Ratio	Lower	Upper
154	100		
153	115.8	91.6	137.4
152	58.8	47.4	71.2

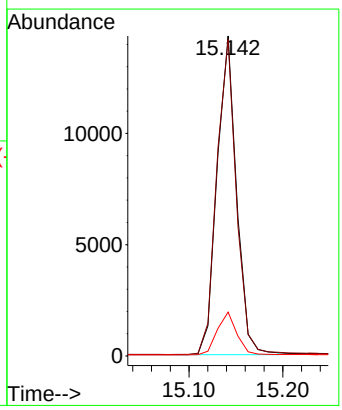


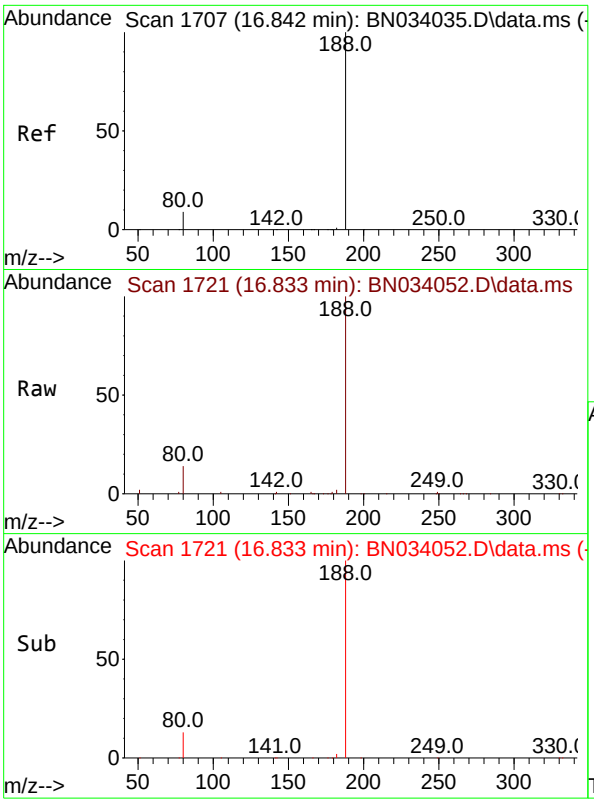


#18
Fluorene
Concen: 0.384 ng
RT: 15.142 min Scan# 1580
Delta R.T. 0.001 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:166 Resp: 20666

Ion	Ratio	Lower	Upper
166	100		
165	99.4	79.1	118.7
167	13.4	10.6	15.8



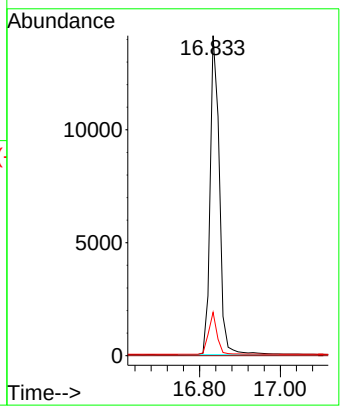


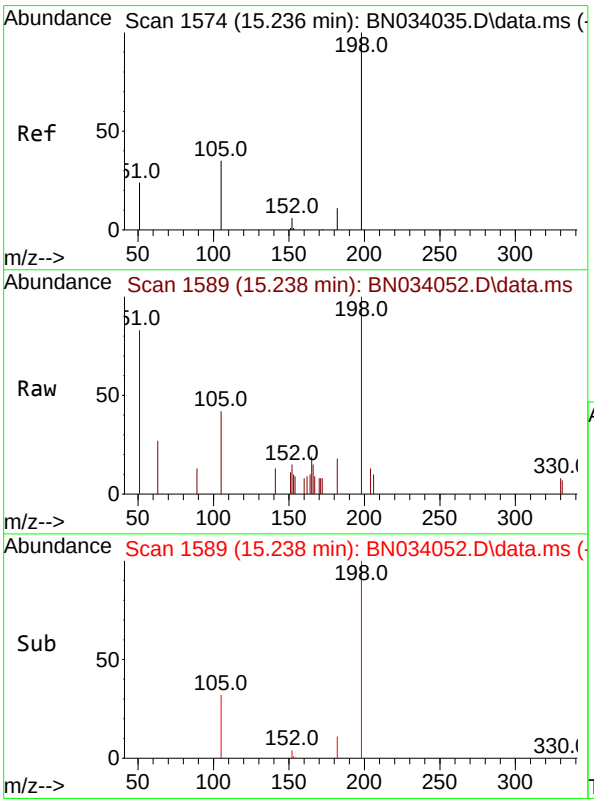
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.833 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:188 Resp: 22485

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	13.6	7.4	11.0#

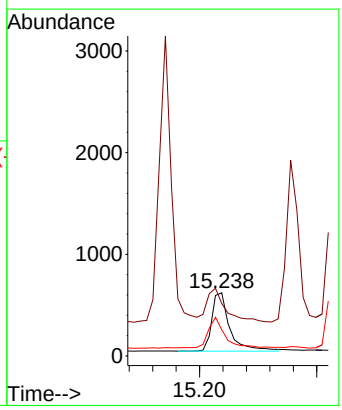


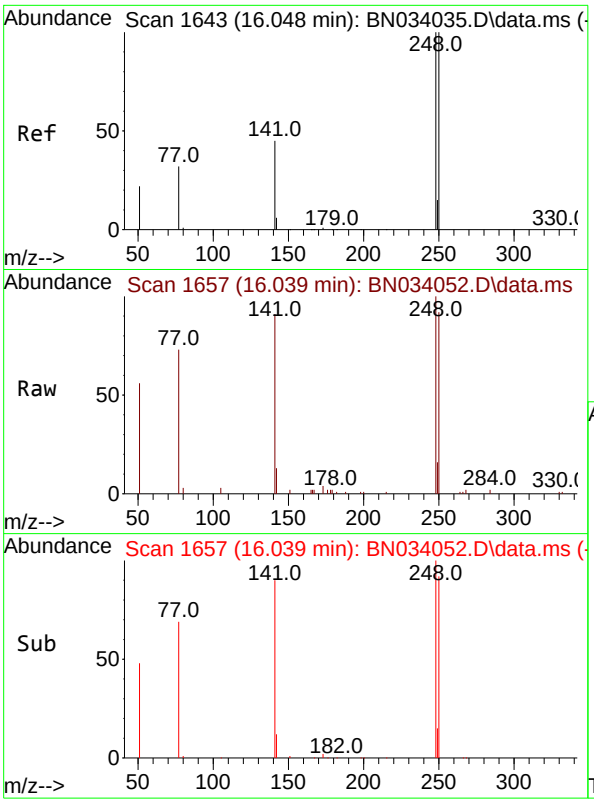


#20
4,6-Dinitro-2-methylphenol
Concen: 0.430 ng
RT: 15.238 min Scan# 1589
Delta R.T. 0.002 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:198 Resp: 1220

Ion	Ratio	Lower	Upper
198	100		
51	83.1	106.4	159.6#
105	41.6	38.5	57.7



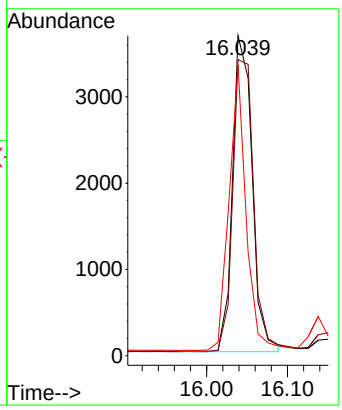


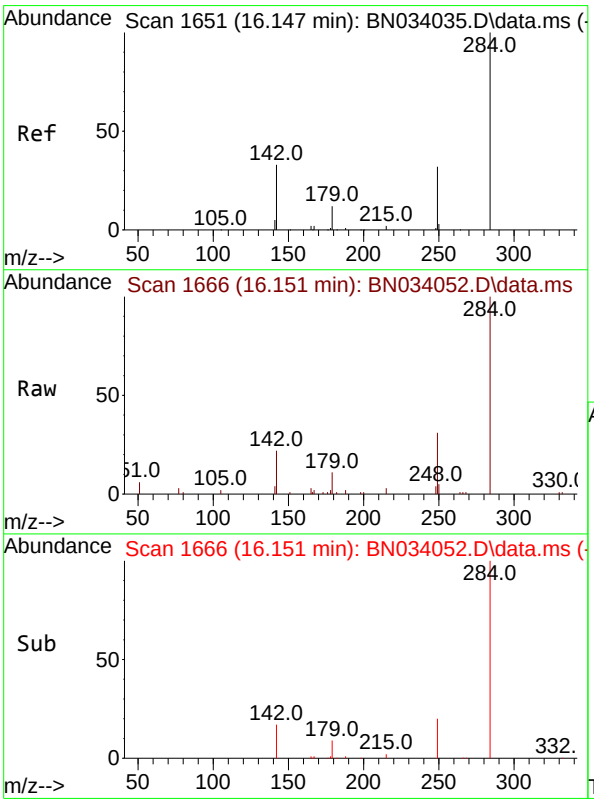
#21
4-Bromophenyl-phenylether
Concen: 0.489 ng
RT: 16.039 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:248 Resp: 6186

Ion	Ratio	Lower	Upper
248	100		
250	92.5	80.5	120.7
141	90.8	37.1	55.7#

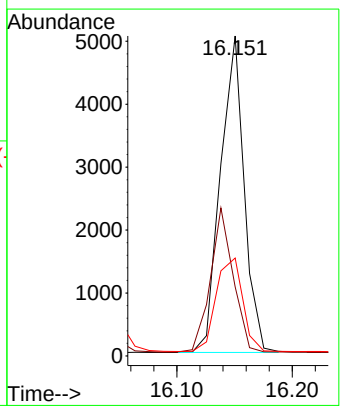


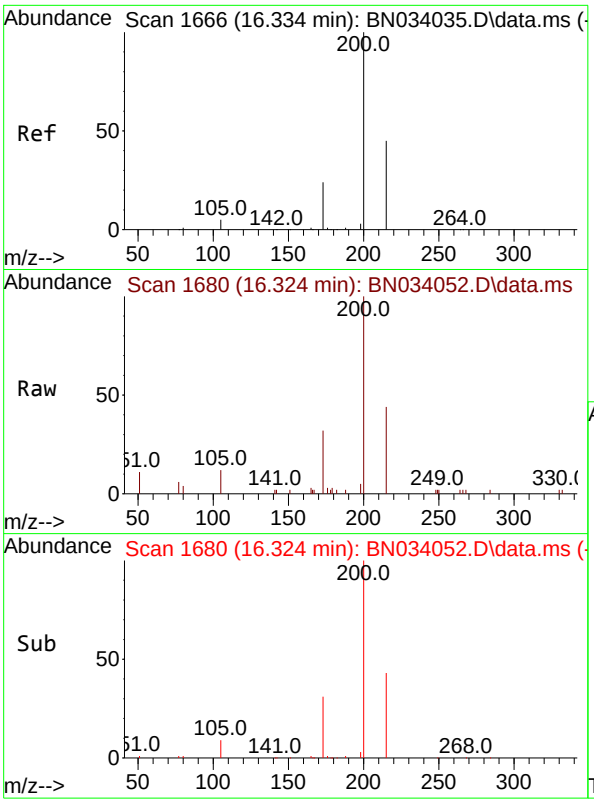


#22
Hexachlorobenzene
Concen: 0.507 ng
RT: 16.151 min Scan# 1666
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:284 Resp: 7185

Ion	Ratio	Lower	Upper
284	100		
142	43.5	34.5	51.7
249	33.0	25.8	38.6



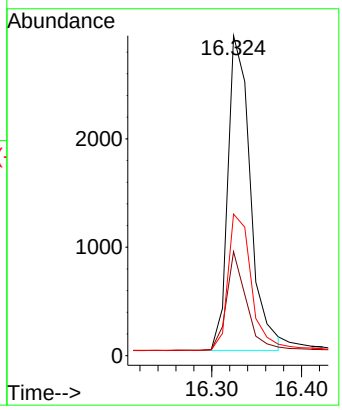


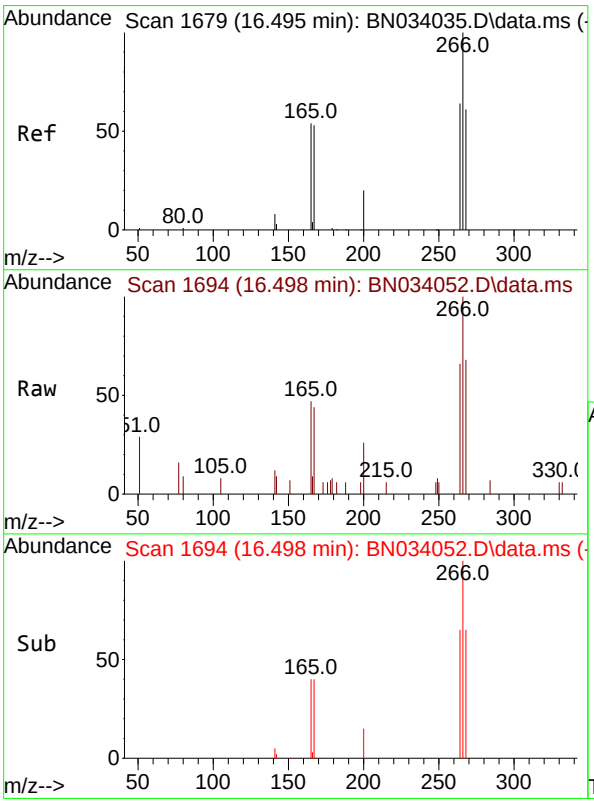
#23
Atrazine
Concen: 0.482 ng
RT: 16.324 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:200 Resp: 5053

Ion	Ratio	Lower	Upper
200	100		
173	32.5	20.1	30.1#
215	44.2	37.0	55.6

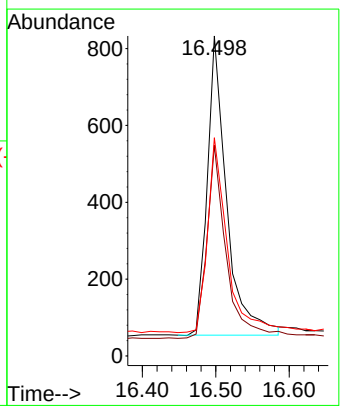


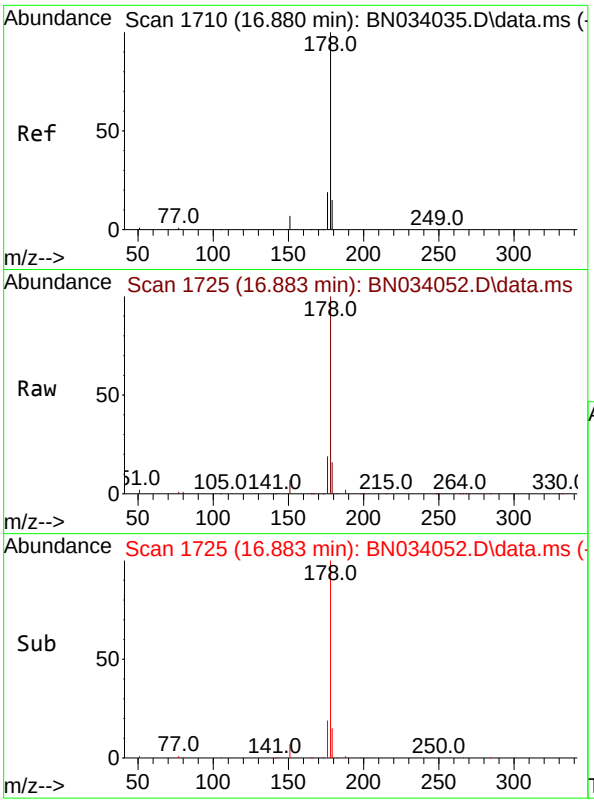


#24
Pentachlorophenol
Concen: 0.306 ng
RT: 16.498 min Scan# 1694
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:266 Resp: 1432

Ion	Ratio	Lower	Upper
266	100		
264	62.8	50.2	75.2
268	65.5	51.0	76.4



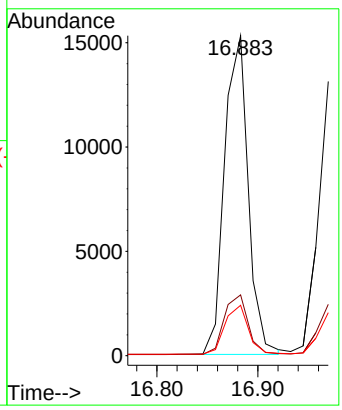


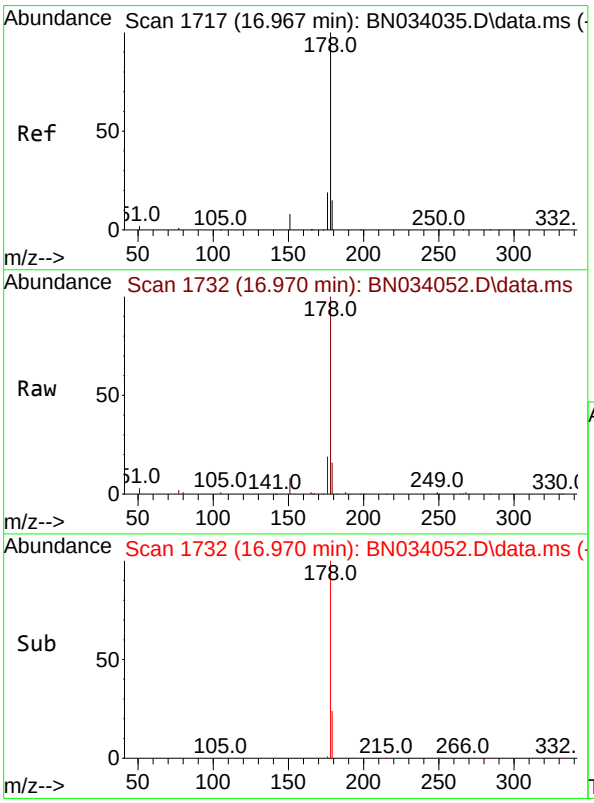
#25
Phenanthrene
Concen: 0.386 ng
RT: 16.883 min Scan# 1
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:178 Resp: 24909

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.3	12.1	18.1

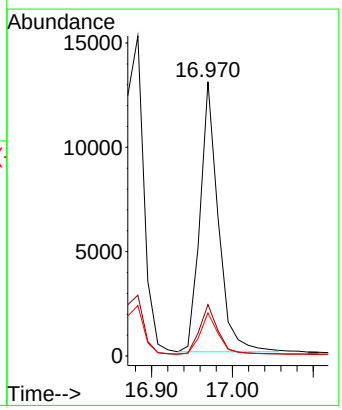


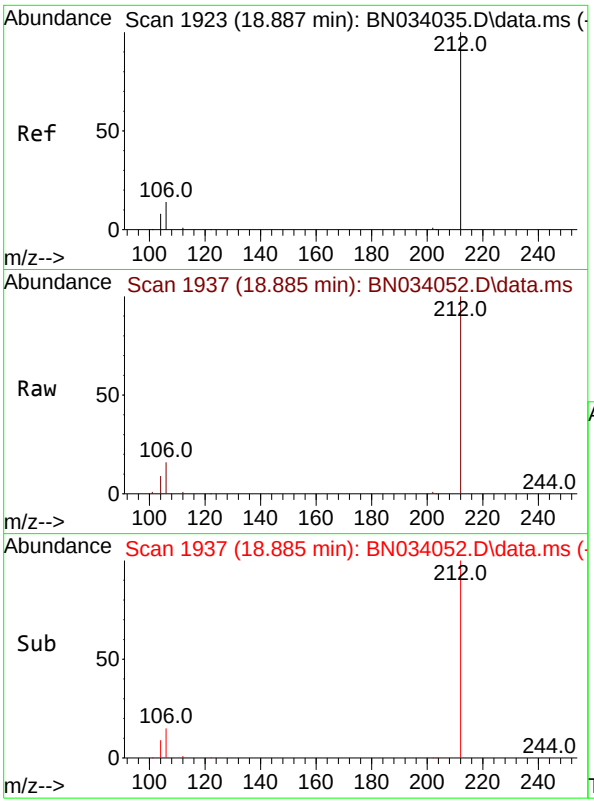


#26
Anthracene
Concen: 0.386 ng
RT: 16.970 min Scan# 1732
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:178 Resp: 20352

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.2	12.2	18.4



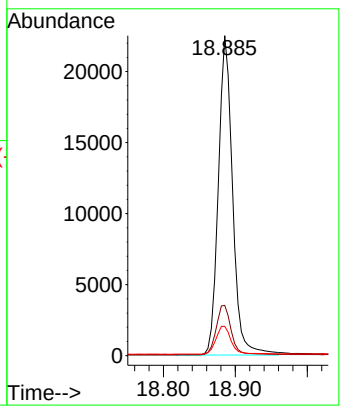


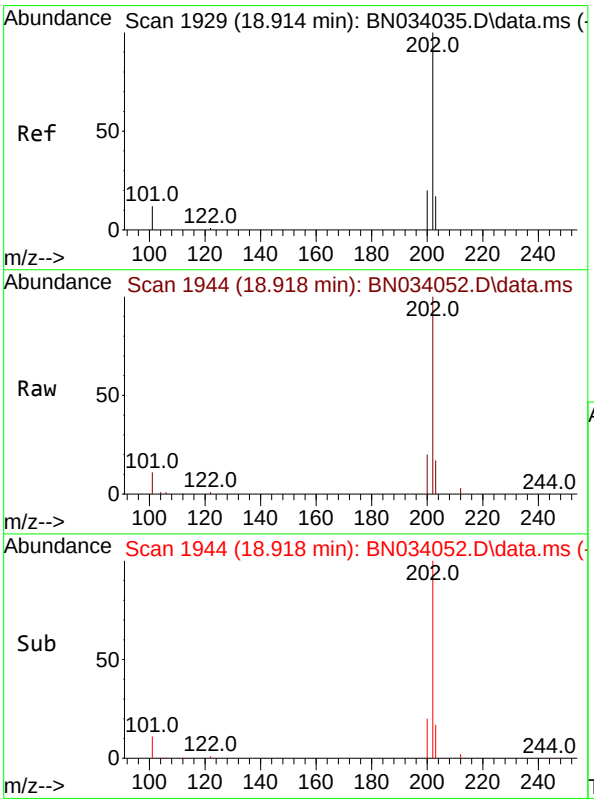
#27
Fluoranthene-d10
Concen: 0.546 ng
RT: 18.885 min Scan# 1
Delta R.T. -0.001 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:212 Resp: 31002

Ion	Ratio	Lower	Upper
212	100		
106	16.1	13.4	20.2
104	9.3	7.8	11.6

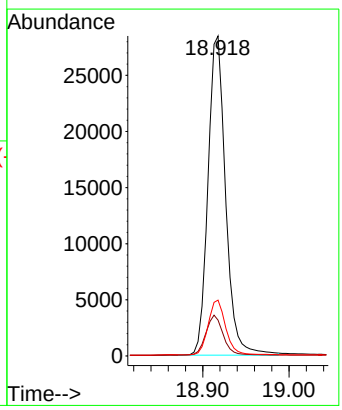


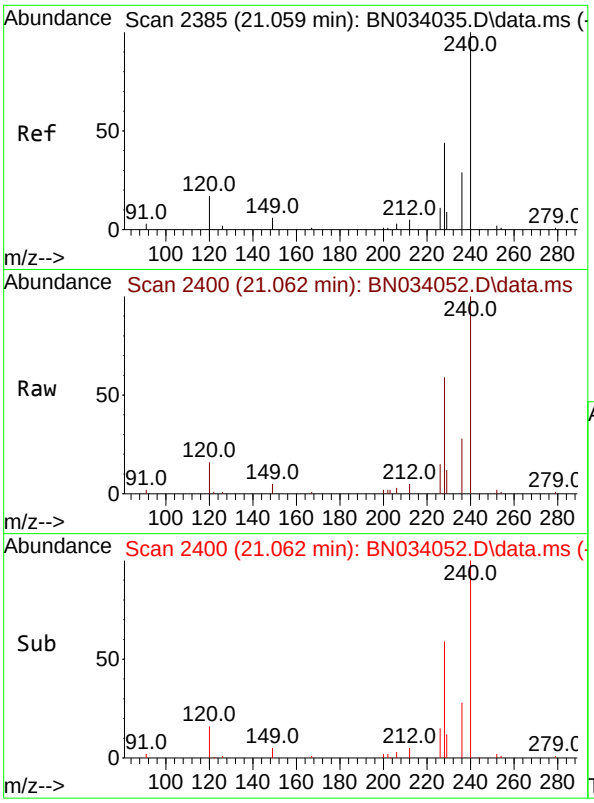


#28
Fluoranthene
Concen: 0.540 ng
RT: 18.918 min Scan# 1944
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:202 Resp: 40425

Ion	Ratio	Lower	Upper
202	100		
101	12.6	10.1	15.1
203	17.1	13.6	20.4



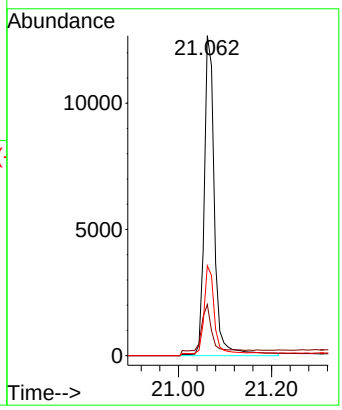


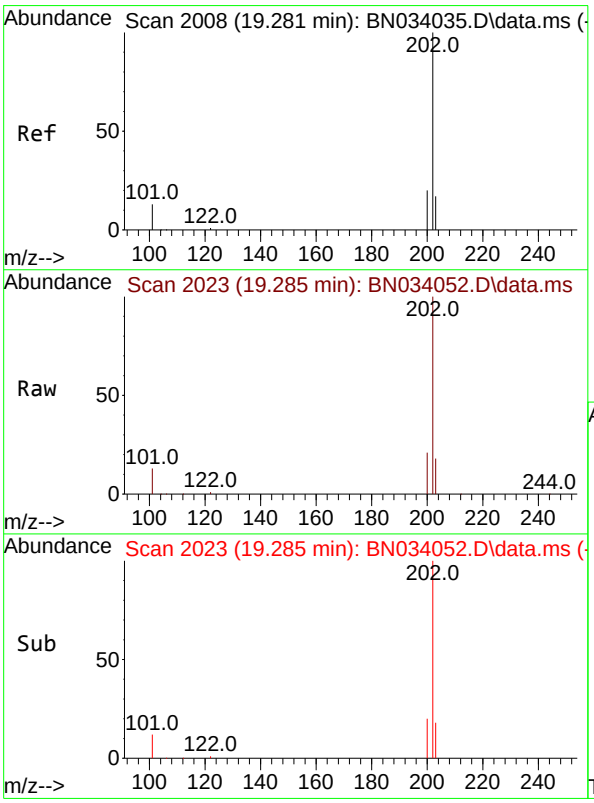
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.062 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:240 Resp: 18706

Ion	Ratio	Lower	Upper
240	100		
120	16.0	13.5	20.3
236	28.1	23.4	35.0

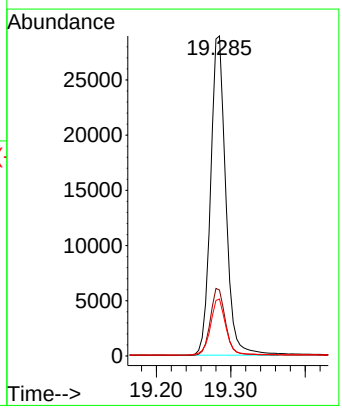


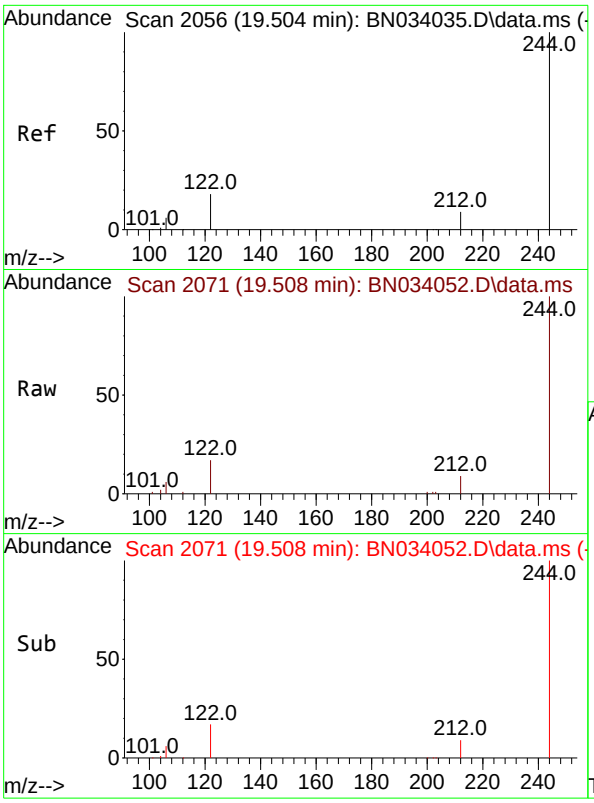


#30
Pyrene
Concen: 0.518 ng
RT: 19.285 min Scan# 2023
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:202 Resp: 40878

Ion	Ratio	Lower	Upper
202	100		
200	20.9	16.6	25.0
203	17.9	14.3	21.5



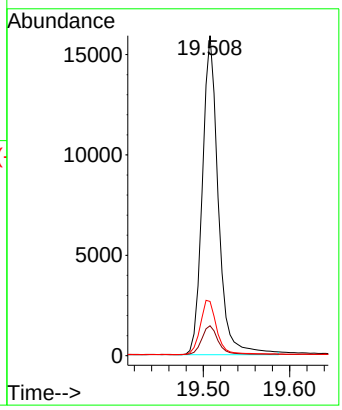


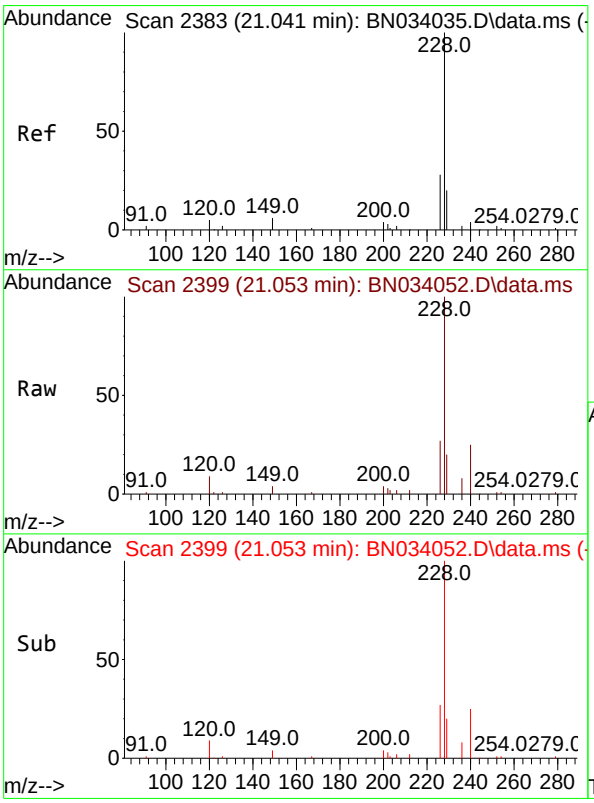
#31
Terphenyl-d14
Concen: 0.548 ng
RT: 19.508 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:244 Resp: 20465

Ion	Ratio	Lower	Upper
244	100		
212	9.4	7.8	11.6
122	17.0	14.8	22.2

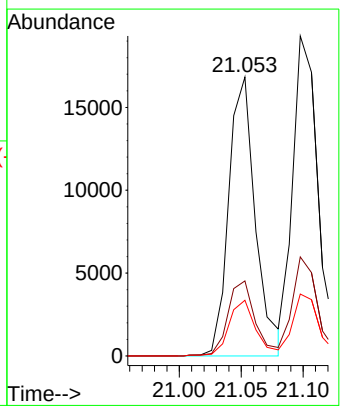


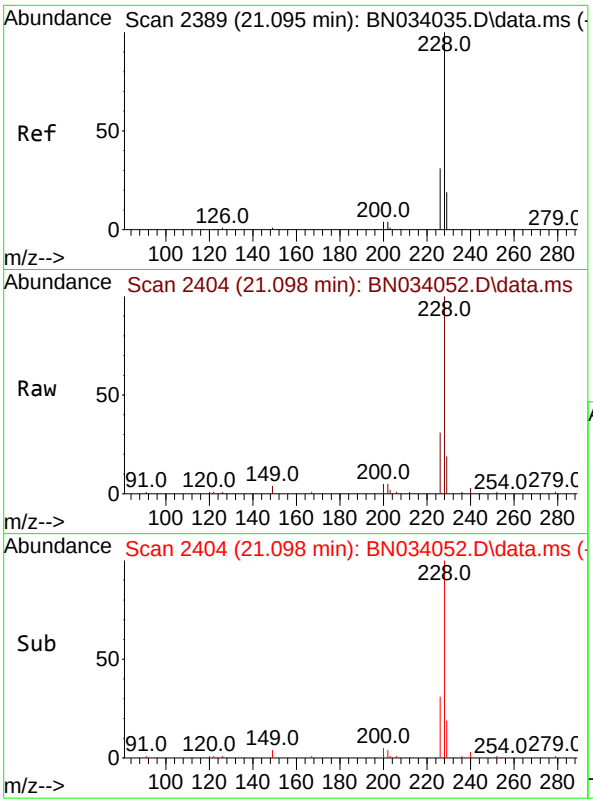


#32
Benzo(a)anthracene
Concen: 0.387 ng
RT: 21.053 min Scan# 2399
Delta R.T. 0.012 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:228 Resp: 22880

Ion	Ratio	Lower	Upper
228	100		
226	26.9	22.3	33.5
229	20.0	15.7	23.5



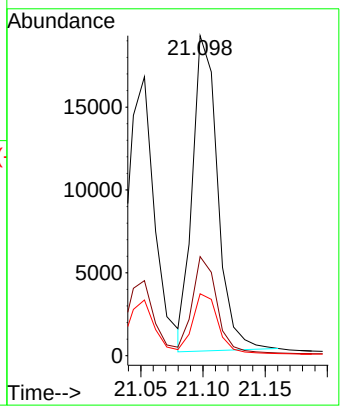


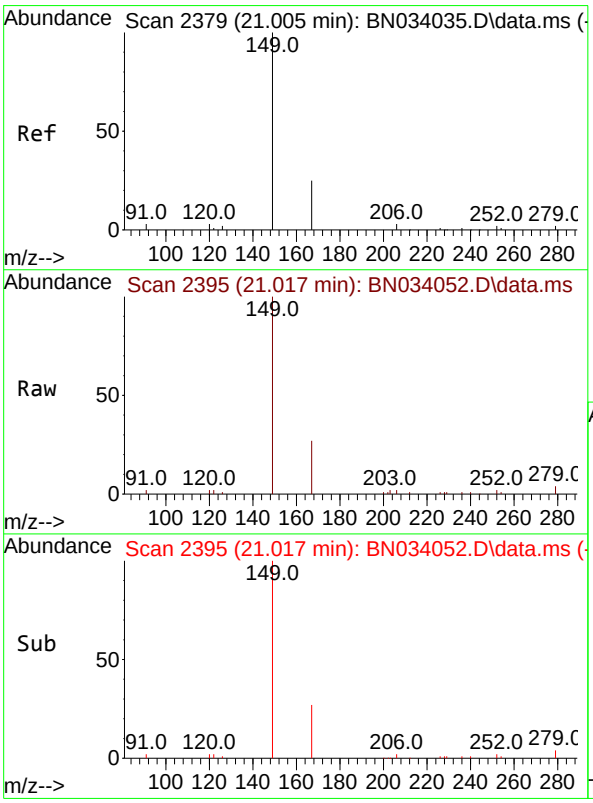
#33
Chrysene
Concen: 0.379 ng
RT: 21.098 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:228 Resp: 26758

Ion	Ratio	Lower	Upper
228	100		
226	30.9	24.6	37.0
229	19.3	15.5	23.3

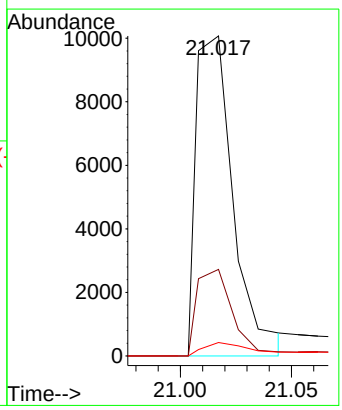


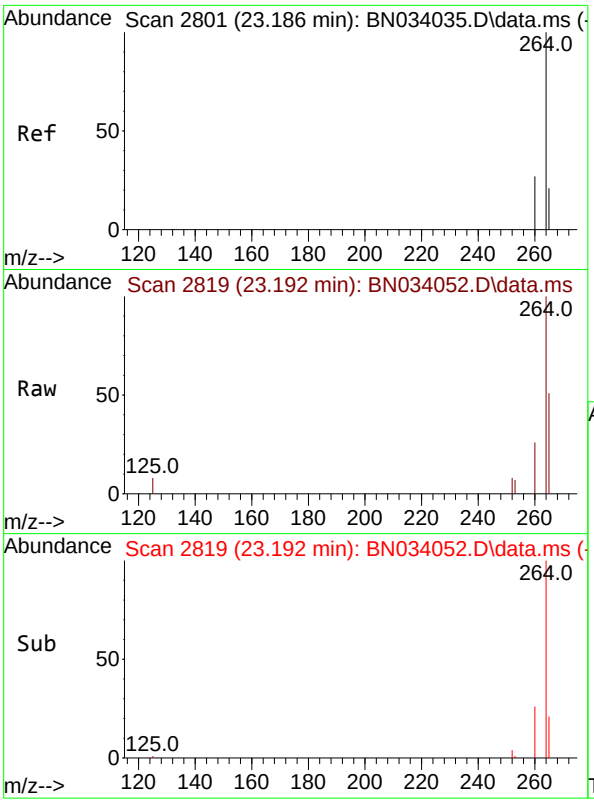


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.444 ng
RT: 21.017 min Scan# 2395
Delta R.T. 0.012 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:149 Resp: 10935

Ion	Ratio	Lower	Upper
149	100		
167	25.9	19.9	29.9
279	5.1	4.6	6.8



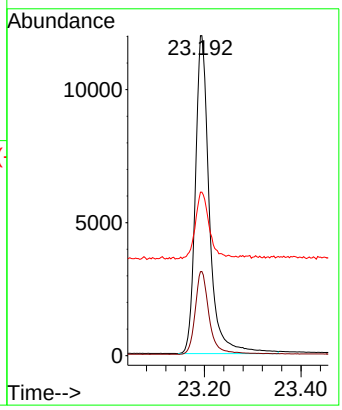


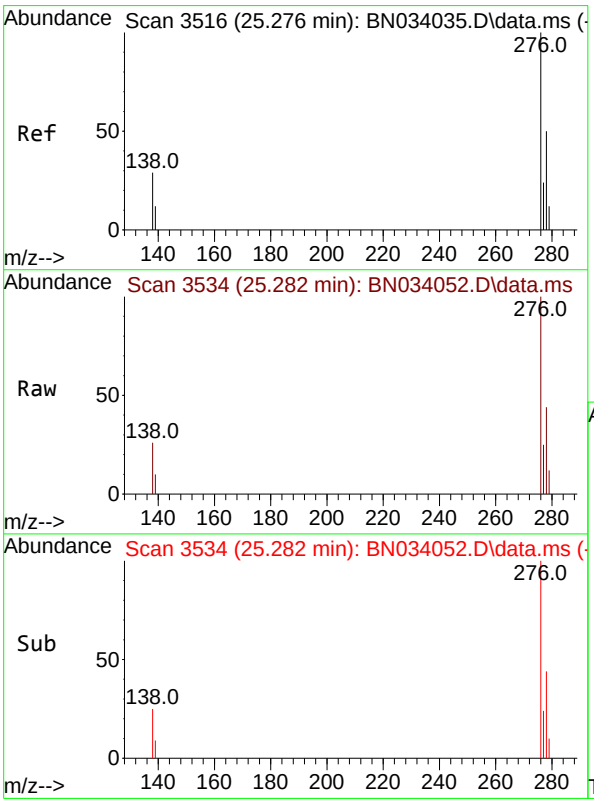
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.192 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:264 Resp: 24163

Ion	Ratio	Lower	Upper
264	100		
260	26.2	21.7	32.5
265	51.1	52.1	78.1#

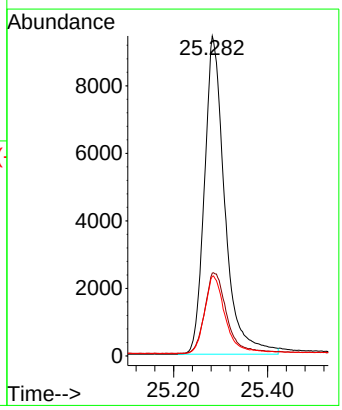


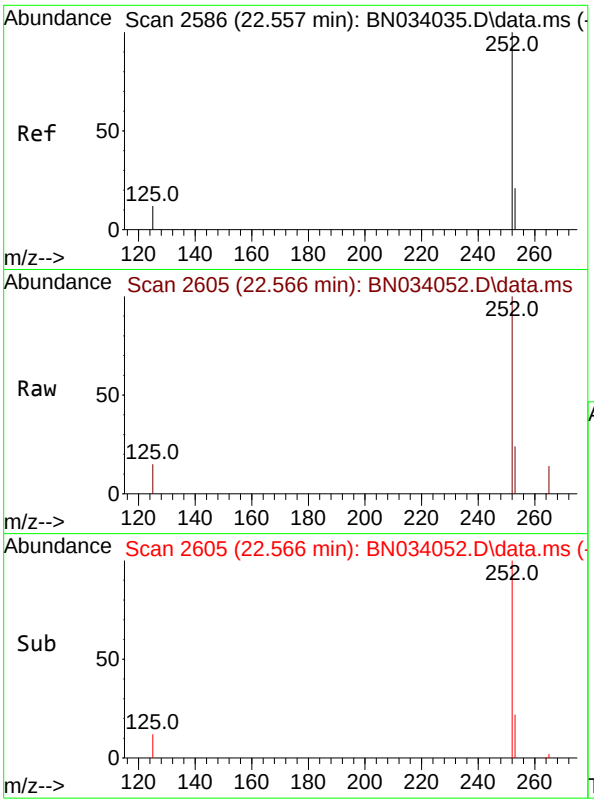


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.274 ng
RT: 25.282 min Scan# 3534
Delta R.T. 0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:276 Resp: 28323

Ion	Ratio	Lower	Upper
276	100		
138	27.7	25.9	38.9
277	24.7	19.7	29.5



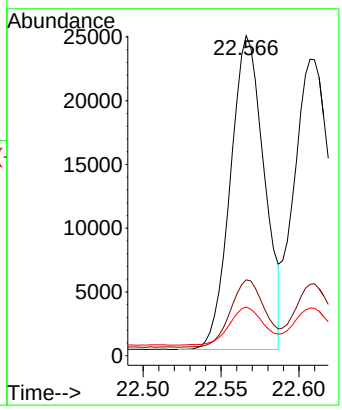


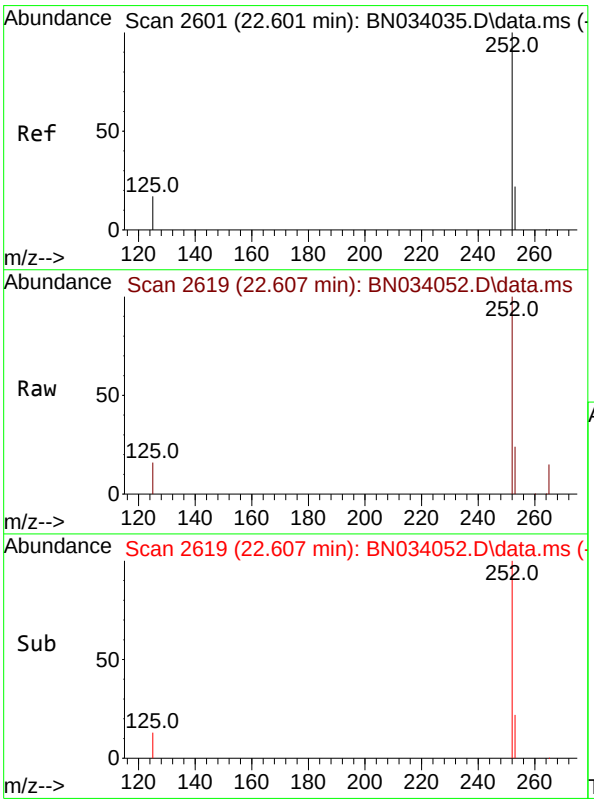
#37
Benzo(b)fluoranthene
Concen: 0.392 ng
RT: 22.566 min Scan# 2
Delta R.T. 0.009 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:252 Resp: 37119

Ion	Ratio	Lower	Upper
252	100		
253	23.7	19.6	29.4
125	15.2	13.8	20.8

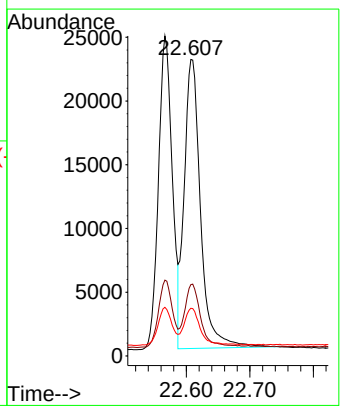


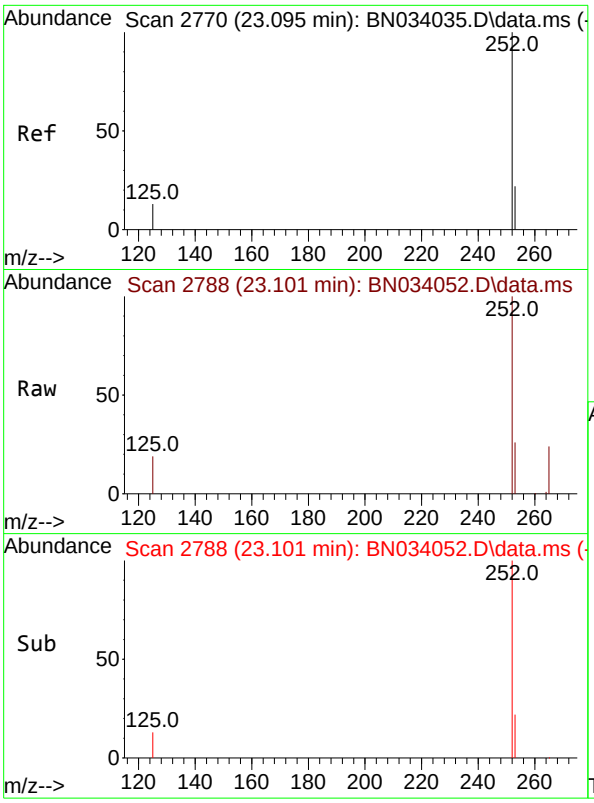


#38
Benzo(k)fluoranthene
Concen: 0.409 ng
RT: 22.607 min Scan# 2619
Delta R.T. 0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:252 Resp: 40608

Ion	Ratio	Lower	Upper
252	100		
253	24.0	20.1	30.1
125	16.1	16.8	25.2#



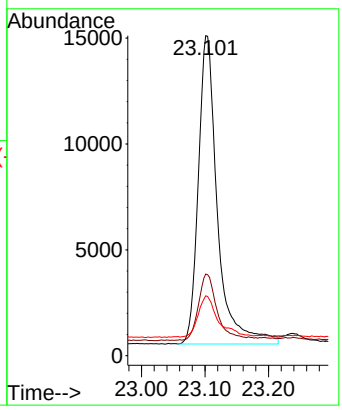


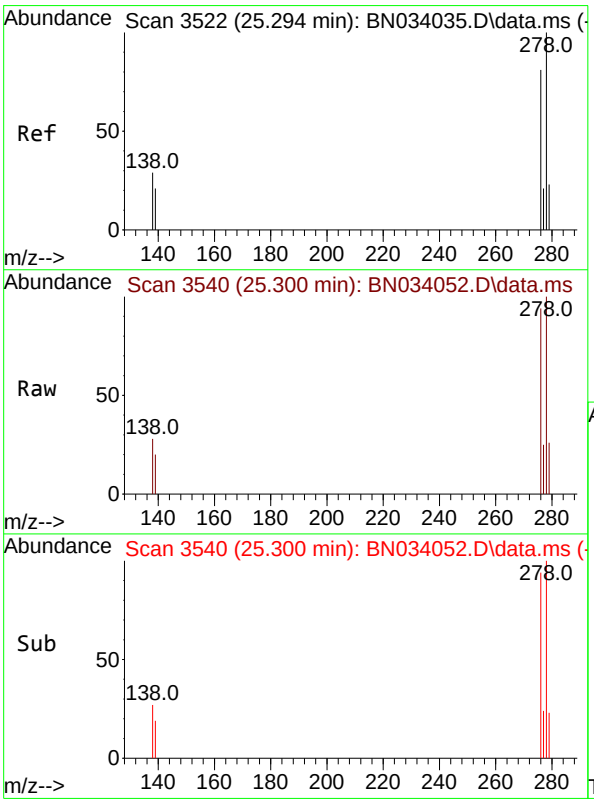
#39
Benzo(a)pyrene
Concen: 0.396 ng
RT: 23.101 min Scan# 2
Delta R.T. 0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:252 Resp: 30535

Ion	Ratio	Lower	Upper
252	100		
253	25.5	21.8	32.8
125	18.7	17.5	26.3

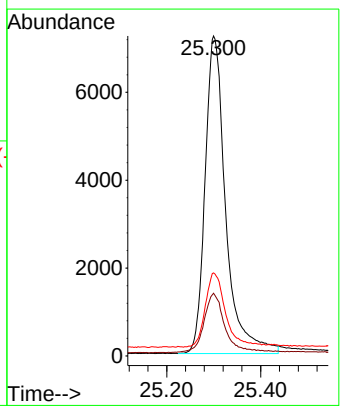


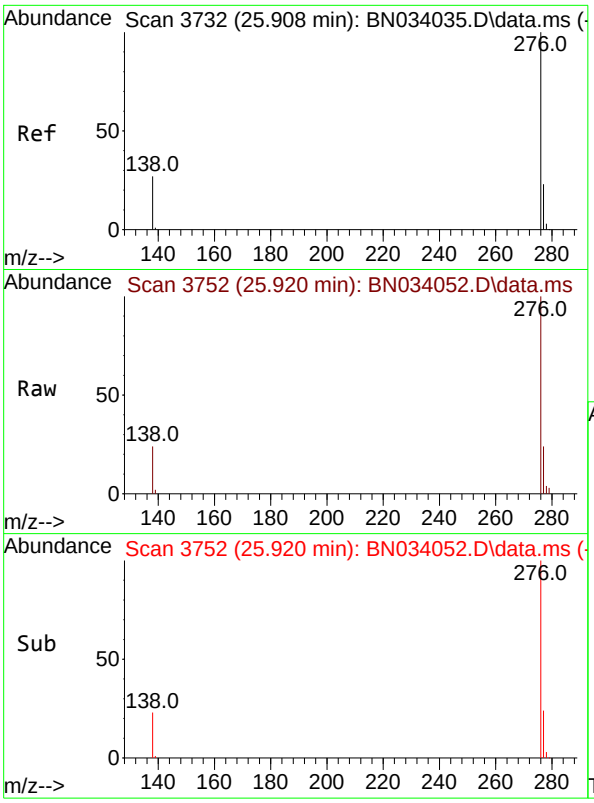


#40
Dibenzo(a,h)anthracene
Concen: 0.274 ng
RT: 25.300 min Scan# 3540
Delta R.T. 0.006 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Tgt Ion:278 Resp: 22061

Ion	Ratio	Lower	Upper
278	100		
139	19.6	17.8	26.8
279	26.0	21.0	31.6



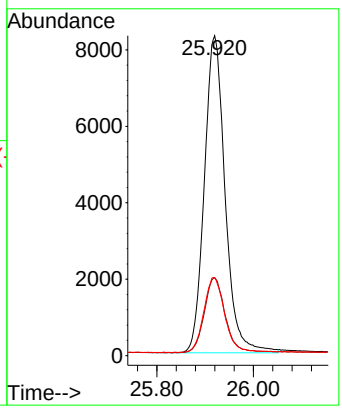


#41
Benzo(g,h,i)perylene
Concen: 0.274 ng
RT: 25.920 min Scan# 3
Delta R.T. 0.012 min
Lab File: BN034052.D
Acq: 19 Sep 2024 16:27

Instrument :
BNA_N
ClientSampleId :
PB163341BS

Tgt Ion:276 Resp: 24793

Ion	Ratio	Lower	Upper
276	100		
277	24.4	19.3	28.9
138	24.3	22.6	34.0



Raw Data: **BN034053.D**

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

Report of Analysis

Client:	Chemtech Consulting Group	Date Collected:	
Project:	NJ Waste Water PT	Date Received:	
Client Sample ID:	PB163341BSD	SDG No.:	P3845
Lab Sample ID:	PB163341BSD	Matrix:	Water
Analytical Method:	SW8270SIM	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SVOCMS Group4
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BN034053.D	1	09/12/24 12:00	09/19/24 17:03	PB163341

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
534-52-1	4,6-Dinitro-2-methylphenol	0.35		0.14	0.20	ug/L
87-86-5	Pentachlorophenol	0.28		0.090	0.20	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	0.33		10 - 100	83%	SPK: 0.4
13127-88-3	Phenol-d6	0.32		10 - 100	79%	SPK: 0.4
118-79-6	2,4,6-Tribromophenol	0.34		10 - 131	86%	SPK: 0.4
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	6390	7.438			
1146-65-2	Naphthalene-d8	18900	10.191			
15067-26-2	Acenaphthene-d10	7690	14.083			
1517-22-2	Phenanthrene-d10	17000	16.833			
1719-03-5	Chrysene-d12	13200	21.062			
1520-96-3	Perylene-d12	12100	23.189			

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_N\Data\BN091924\
Data File : BN034053.D
Acq On : 19 Sep 2024 17:03
Operator : JU/RC
Sample : PB163341BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Quant Time: Sep 19 17:59:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration

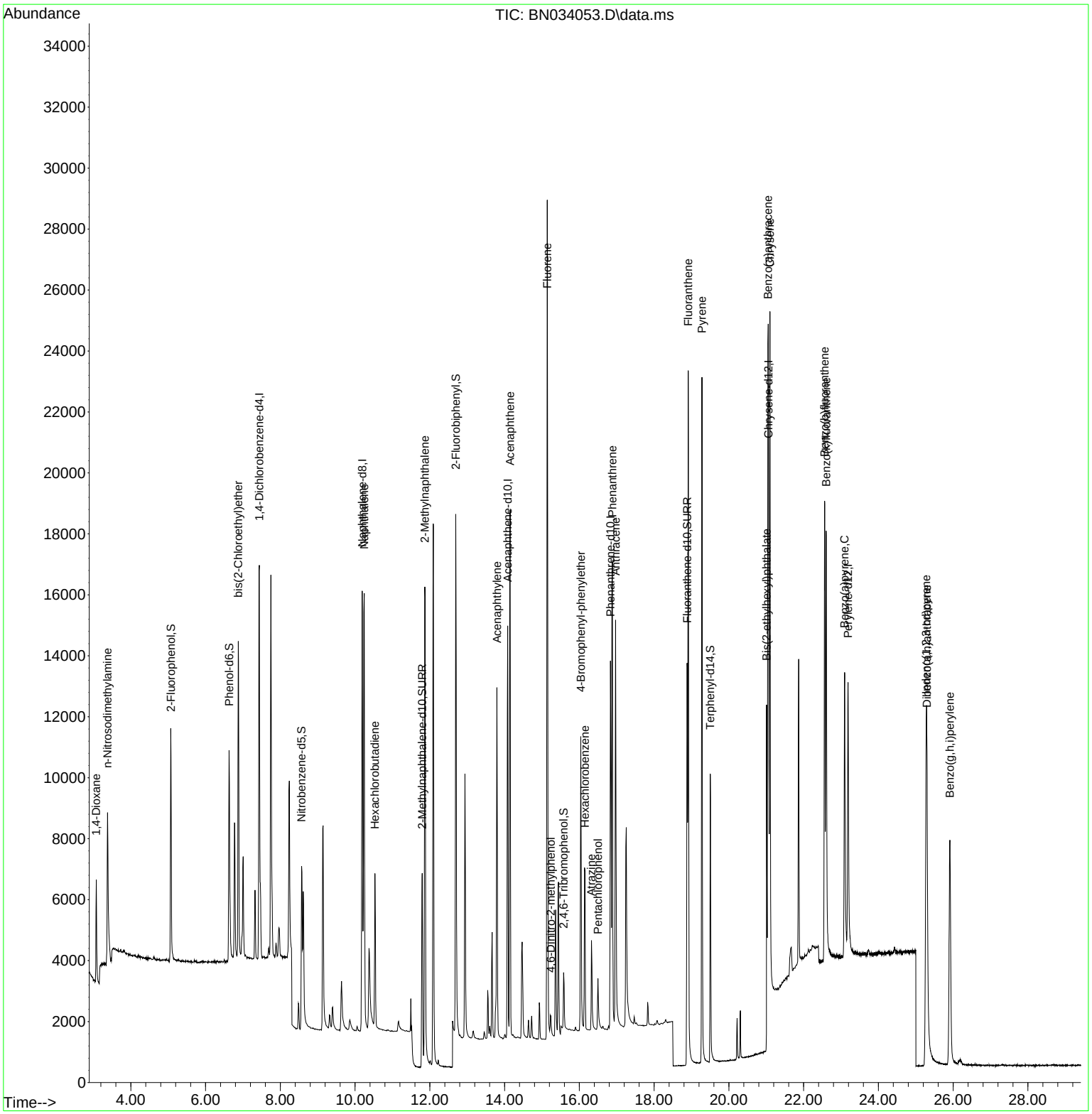
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	7.438	152	6385	0.400	ng		0.00
7) Naphthalene-d8	10.191	136	18900	0.400	ng		0.00
13) Acenaphthene-d10	14.083	164	7692	0.400	ng		0.00
19) Phenanthrene-d10	16.833	188	17049	0.400	ng	#	0.00
29) Chrysene-d12	21.062	240	13235	0.400	ng	#	0.00
35) Perylene-d12	23.189	264	12101	0.400	ng		0.00
System Monitoring Compounds							
4) 2-Fluorophenol	5.076	112	6041	0.333	ng		0.00
5) Phenol-d6	6.629	99	6664	0.316	ng		0.00
8) Nitrobenzene-d5	8.568	82	5201	0.360	ng		0.00
11) 2-Methylnaphthalene-d10	11.795	152	9946	0.356	ng		0.00
14) 2,4,6-Tribromophenol	15.580	330	1195	0.343	ng		0.00
15) 2-Fluorobiphenyl	12.693	172	15724	0.503	ng		0.00
27) Fluoranthene-d10	18.885	212	15813	0.368	ng		0.00
31) Terphenyl-d14	19.503	244	9957	0.377	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	3.076	88	2213	0.277	ng		99
3) n-Nitrosodimethylamine	3.379	42	3596	0.396	ng	#	85
6) bis(2-Chloroethyl)ether	6.874	93	7319	0.392	ng		99
9) Naphthalene	10.244	128	19961	0.385	ng		99
10) Hexachlorobutadiene	10.532	225	3838	0.393	ng	#	98
12) 2-Methylnaphthalene	11.867	142	12581	0.373	ng		99
16) Acenaphthylene	13.795	152	12252	0.372	ng		100
17) Acenaphthene	14.147	154	8885	0.376	ng		99
18) Fluorene	15.142	166	11814	0.381	ng		100
20) 4,6-Dinitro-2-methylph...	15.238	198	659	0.346	ng	#	74
21) 4-Bromophenyl-phenylether	16.039	248	3577	0.373	ng	#	74
22) Hexachlorobenzene	16.151	284	4461	0.415	ng		99
23) Atrazine	16.324	200	2693	0.339	ng	#	94
24) Pentachlorophenol	16.498	266	997	0.281	ng		99
25) Phenanthrene	16.883	178	18179	0.371	ng		100
26) Anthracene	16.970	178	14776	0.370	ng		99
28) Fluoranthene	18.913	202	20987	0.370	ng		98
30) Pyrene	19.280	202	21143	0.378	ng		100
32) Benzo(a)anthracene	21.044	228	15285	0.365	ng		100
33) Chrysene	21.098	228	18880	0.378	ng		99
34) Bis(2-ethylhexyl)phtha...	21.008	149	6364	0.365	ng	#	97
36) Indeno(1,2,3-cd)pyrene	25.276	276	16791	0.324	ng		94
37) Benzo(b)fluoranthene	22.560	252	17560	0.370	ng		97
38) Benzo(k)fluoranthene	22.601	252	19268	0.387	ng	#	94
39) Benzo(a)pyrene	23.095	252	14364	0.372	ng		96
40) Dibenzo(a,h)anthracene	25.300	278	12898	0.320	ng		96
41) Benzo(g,h,i)perylene	25.911	276	15023	0.332	ng		95

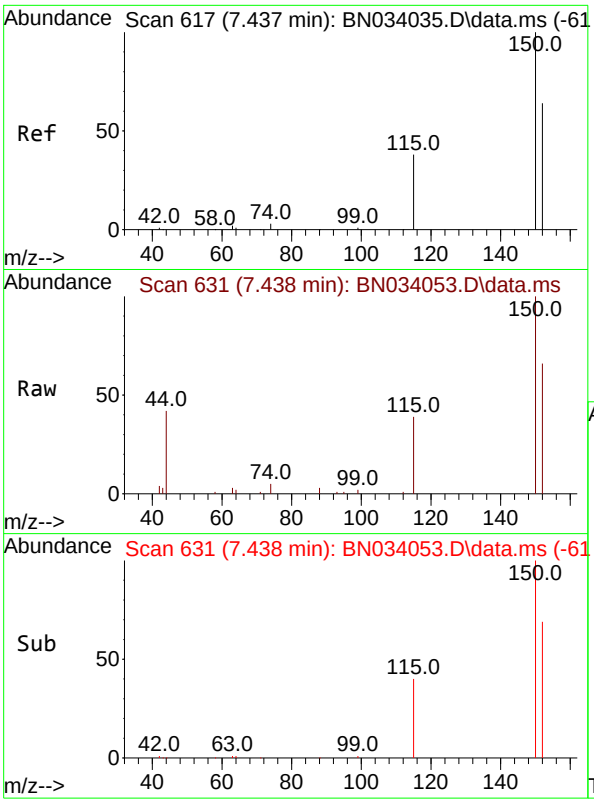
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_N\Data\BN091924\
Data File : BN034053.D
Acq On : 19 Sep 2024 17:03
Operator : JU/RC
Sample : PB163341BSD
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Quant Time: Sep 19 17:59:01 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_N\Methods\8270-SIM-BN091924.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 18 16:09:28 2024
Response via : Initial Calibration



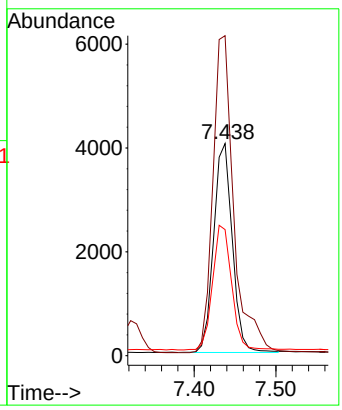


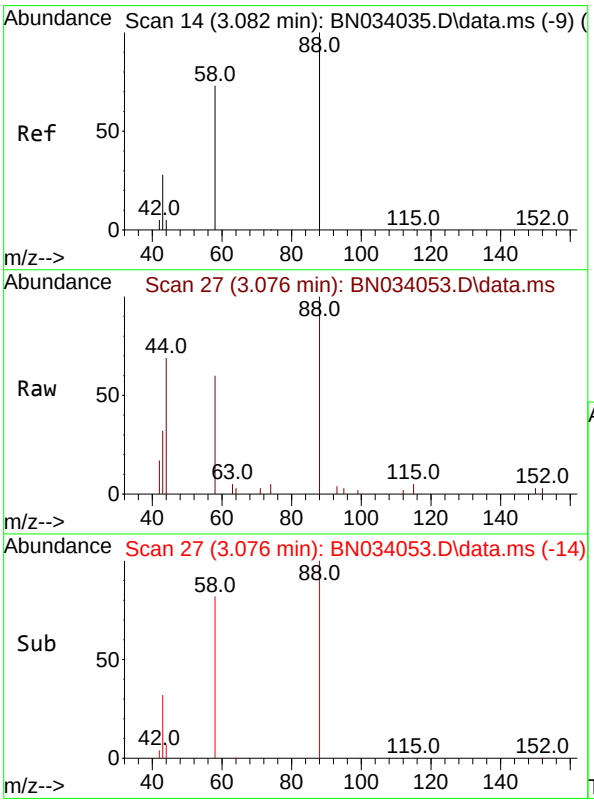
#1
1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.438 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:152 Resp: 6385

Ion	Ratio	Lower	Upper
152	100		
150	150.8	124.6	187.0
115	59.4	50.0	75.0

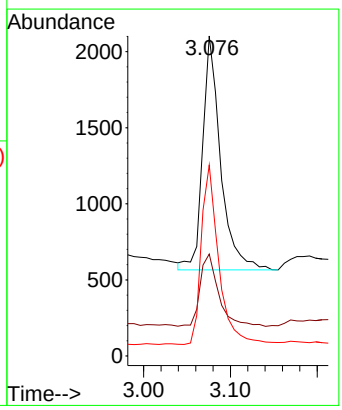


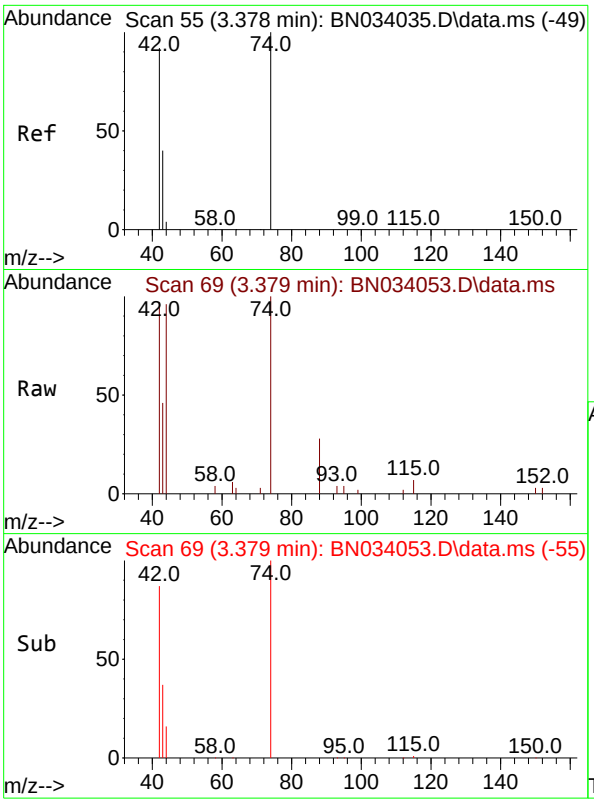


#2
1,4-Dioxane
Concen: 0.277 ng
RT: 3.076 min Scan# 27
Delta R.T. -0.006 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion: 88 Resp: 2213

Ion	Ratio	Lower	Upper
88	100		
43	31.6	25.8	38.8
58	74.8	58.8	88.2



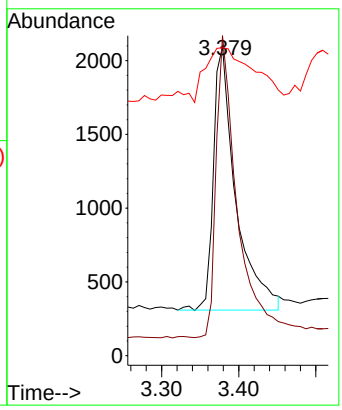


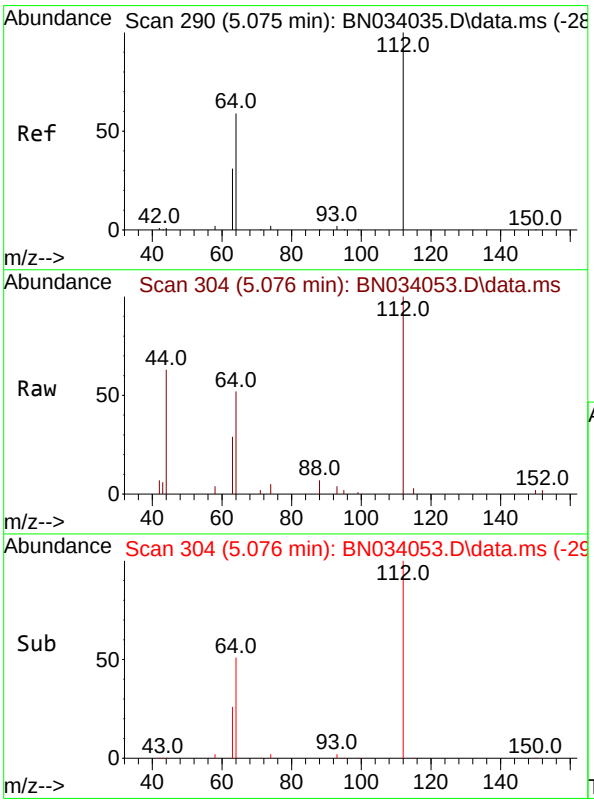
#3
n-Nitrosodimethylamine
Concen: 0.396 ng
RT: 3.379 min Scan# 6
Delta R.T. 0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion: 42 Resp: 3596

Ion	Ratio	Lower	Upper
42	100		
74	107.3	94.6	142.0
44	37.1	12.4	18.6#

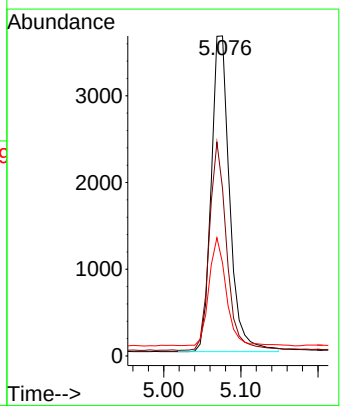


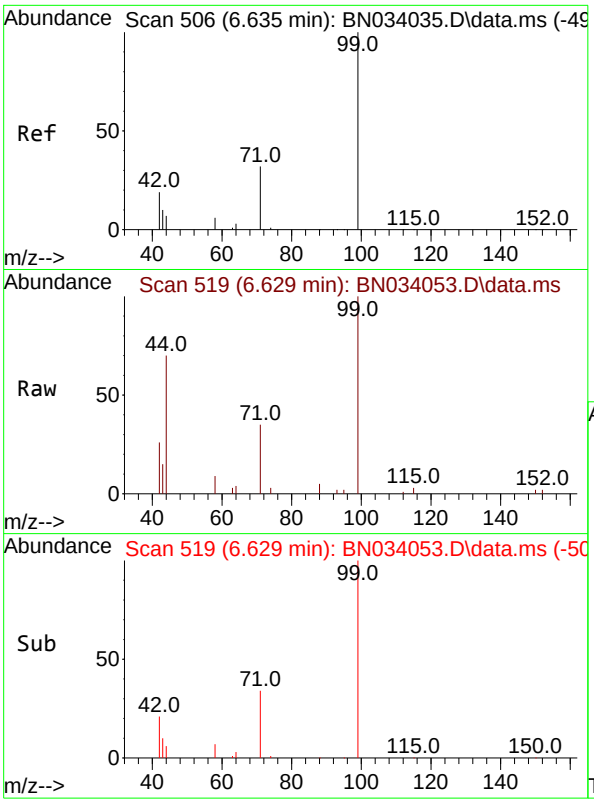


#4
2-Fluorophenol
Concen: 0.333 ng
RT: 5.076 min Scan# 304
Delta R.T. 0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:112 Resp: 6041

Ion	Ratio	Lower	Upper
112	100		
64	61.6	48.6	72.8
63	31.7	25.6	38.4



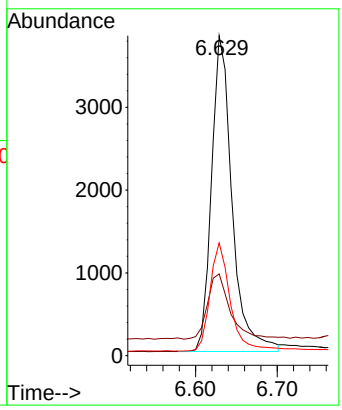


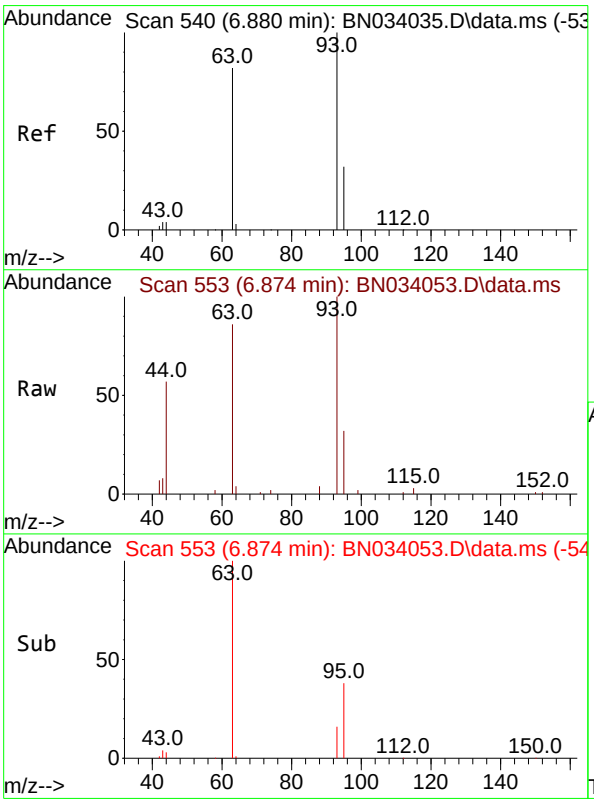
#5
Phenol-d6
Concen: 0.316 ng
RT: 6.629 min Scan# 5
Delta R.T. -0.006 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion: 99 Resp: 6664

Ion	Ratio	Lower	Upper
99	100		
42	22.7	17.8	26.8
71	33.9	26.2	39.2

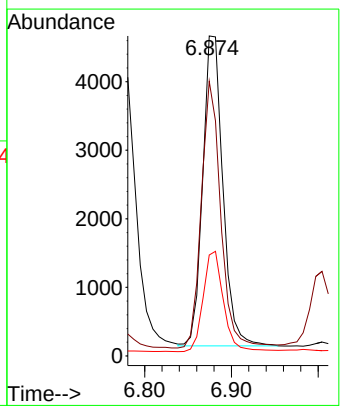


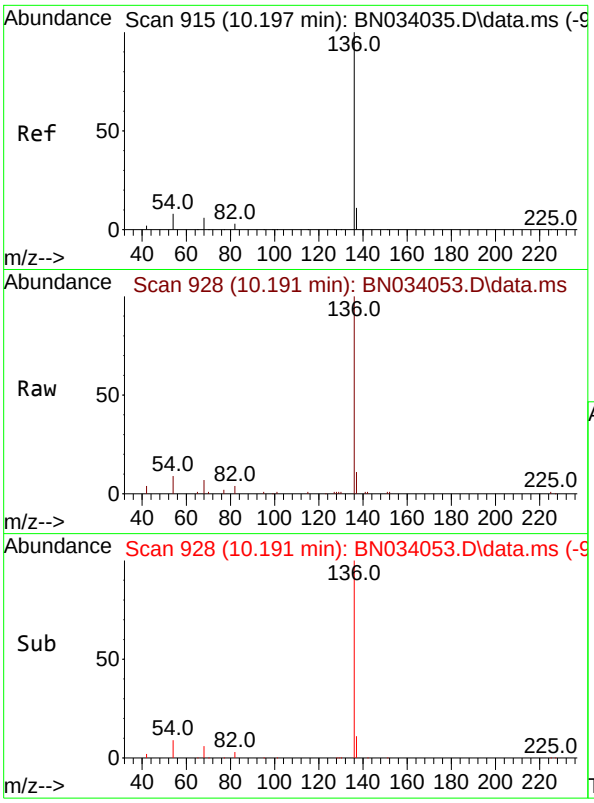


#6
bis(2-Chloroethyl)ether
Concen: 0.392 ng
RT: 6.874 min Scan# 553
Delta R.T. -0.006 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion: 93 Resp: 7319

Ion	Ratio	Lower	Upper
93	100		
63	83.2	67.3	100.9
95	32.6	26.8	40.2



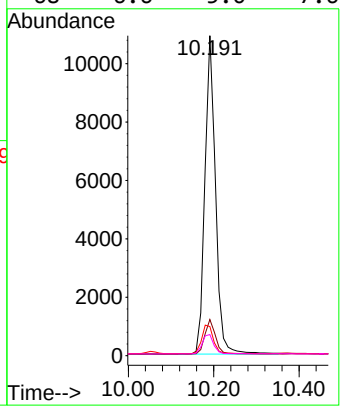


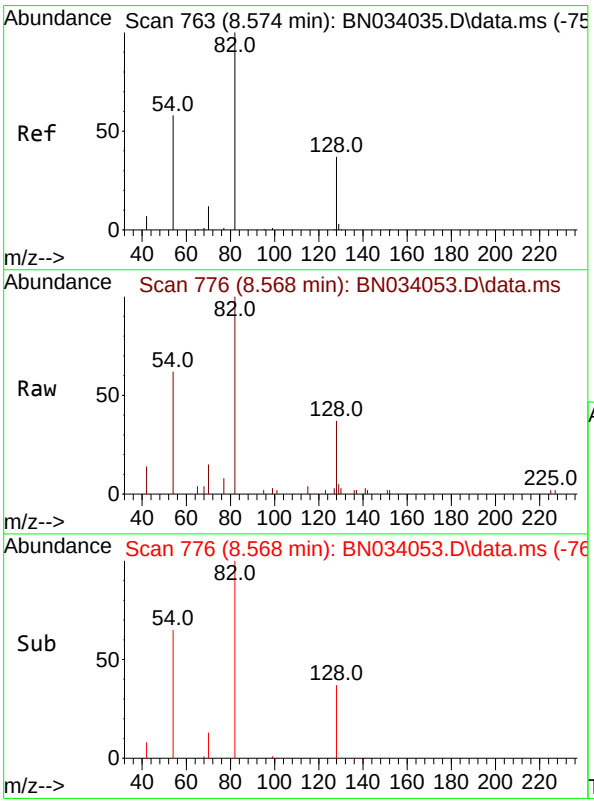
#7
Naphthalene-d8
Concen: 0.400 ng
RT: 10.191 min Scan# 9
Delta R.T. -0.006 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:136 Resp: 18900

Ion	Ratio	Lower	Upper
136	100		
137	11.3	9.0	13.6
54	9.1	6.8	10.2
68	6.6	5.0	7.6

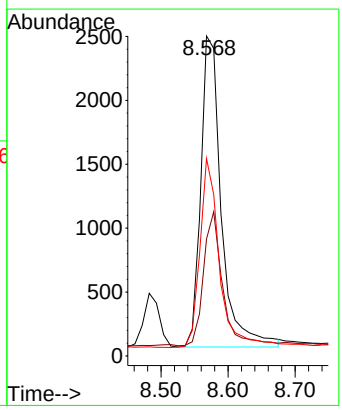


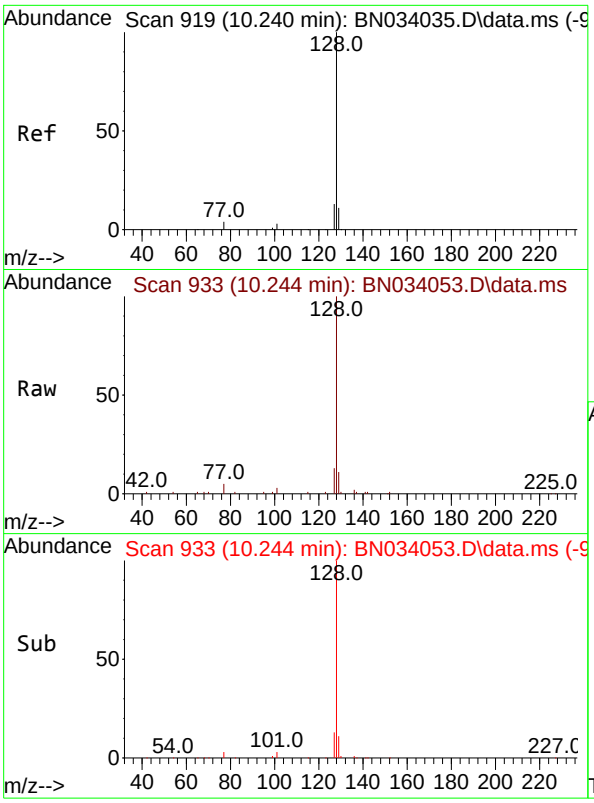


#8
Nitrobenzene-d5
Concen: 0.360 ng
RT: 8.568 min Scan# 776
Delta R.T. -0.006 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion: 82 Resp: 5201

Ion	Ratio	Lower	Upper
82	100		
128	36.5	31.4	47.2
54	61.7	47.4	71.0



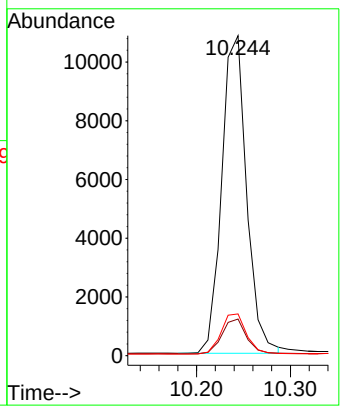


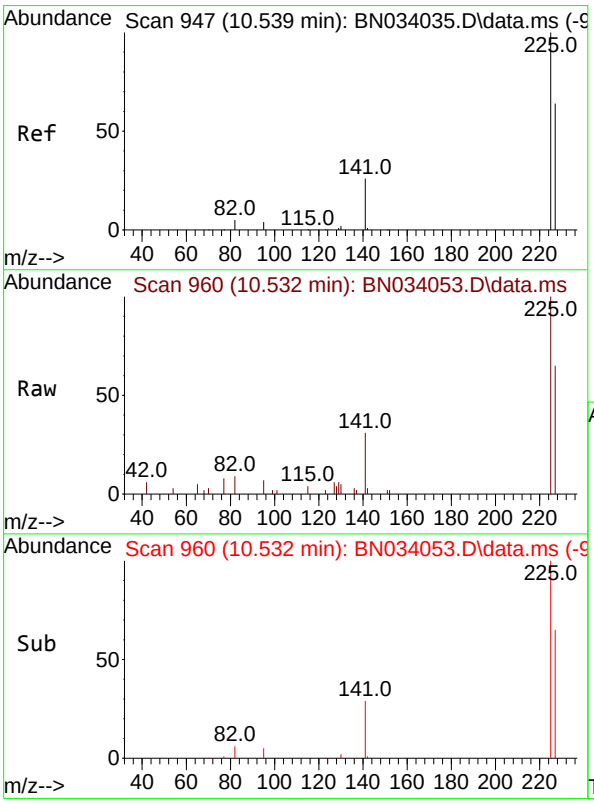
#9
Naphthalene
Concen: 0.385 ng
RT: 10.244 min Scan# 9
Delta R.T. 0.005 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:128 Resp: 19961

Ion	Ratio	Lower	Upper
128	100		
129	11.4	9.2	13.8
127	13.1	10.7	16.1

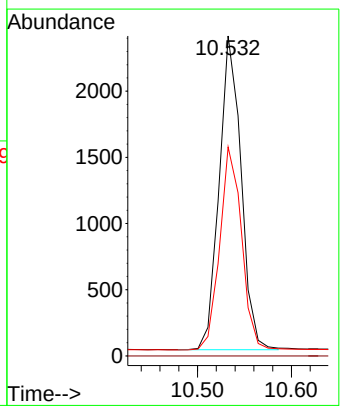


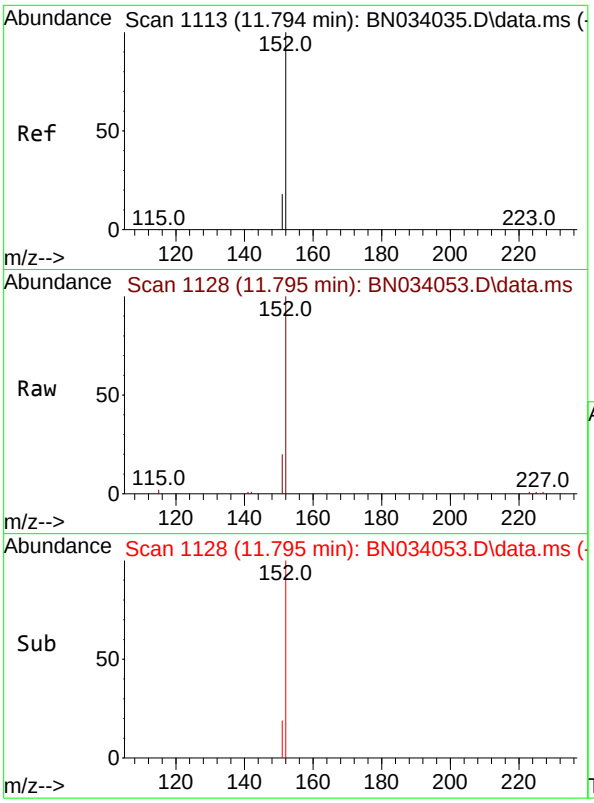


#10
Hexachlorobutadiene
Concen: 0.393 ng
RT: 10.532 min Scan# 960
Delta R.T. -0.006 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:225 Resp: 3838

Ion	Ratio	Lower	Upper
225	100		
223	0.0	0.0	0.0
227	64.4	50.5	75.7



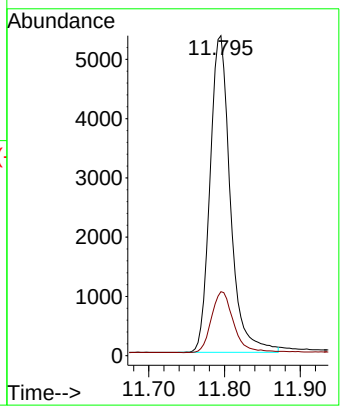


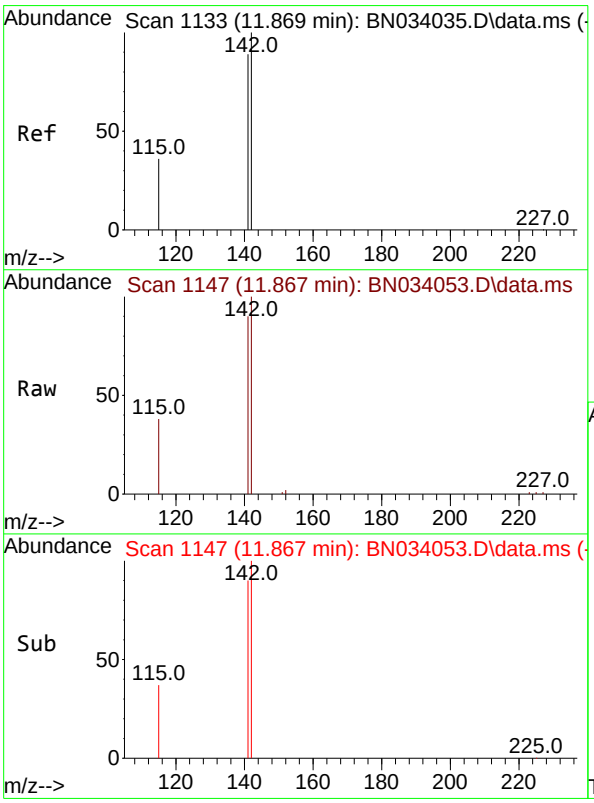
#11
2-Methylnaphthalene-d10
Concen: 0.356 ng
RT: 11.795 min Scan# 11
Delta R.T. 0.002 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:152 Resp: 9946

Ion	Ratio	Lower	Upper
152	100		
151	21.0	16.8	25.2

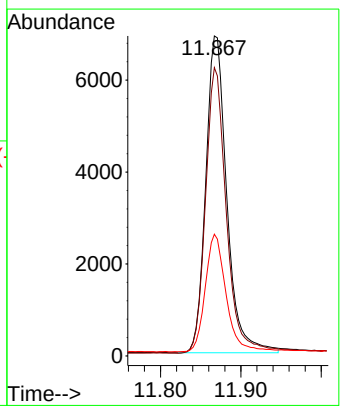


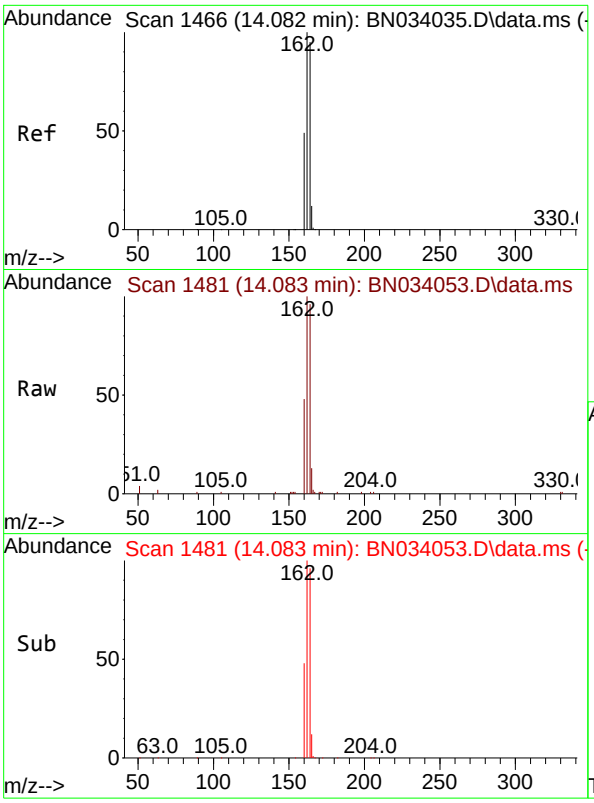


#12
2-Methylnaphthalene
Concen: 0.373 ng
RT: 11.867 min Scan# 1147
Delta R.T. -0.002 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:142 Resp: 12581

Ion	Ratio	Lower	Upper
142	100		
141	90.1	71.6	107.4
115	38.0	30.0	45.0



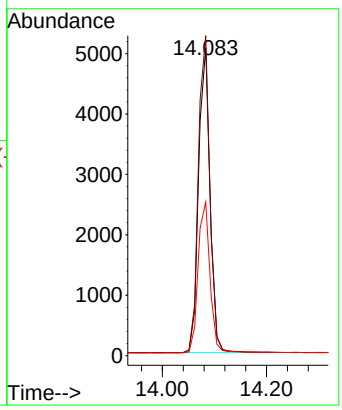


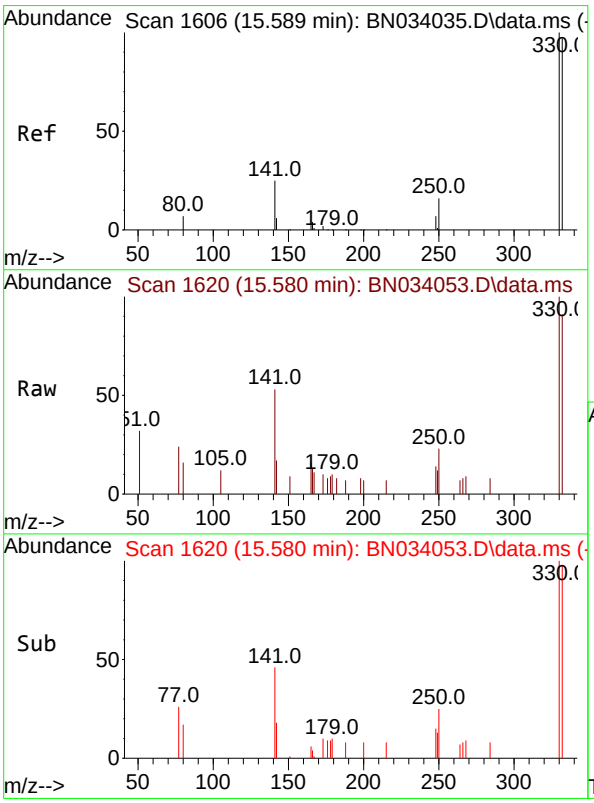
#13
Acenaphthene-d10
Concen: 0.400 ng
RT: 14.083 min Scan# 14
Delta R.T. 0.002 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:164 Resp: 7692

Ion	Ratio	Lower	Upper
164	100		
162	103.9	84.2	126.2
160	49.9	41.7	62.5

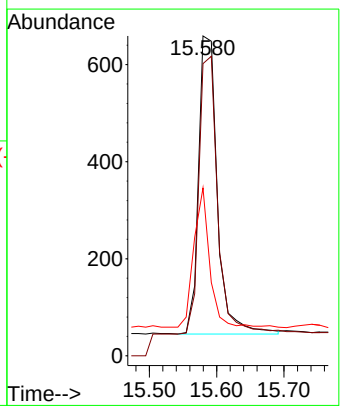


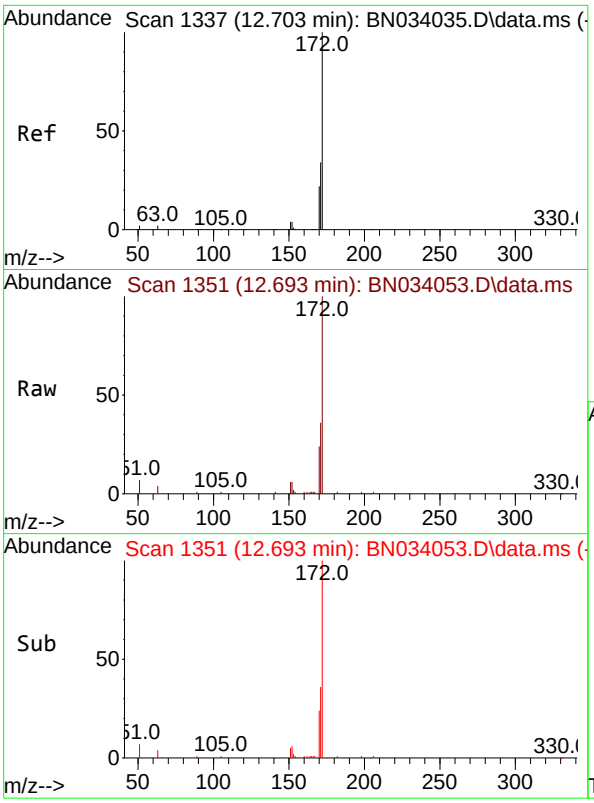


#14
2,4,6-Tribromophenol
Concen: 0.343 ng
RT: 15.580 min Scan# 1620
Delta R.T. -0.009 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:330 Resp: 1195

Ion	Ratio	Lower	Upper
330	100		
332	93.0	77.4	116.0
141	39.2	35.9	53.9



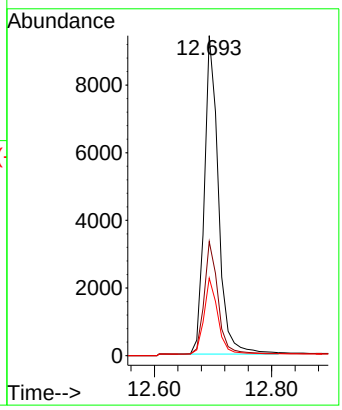


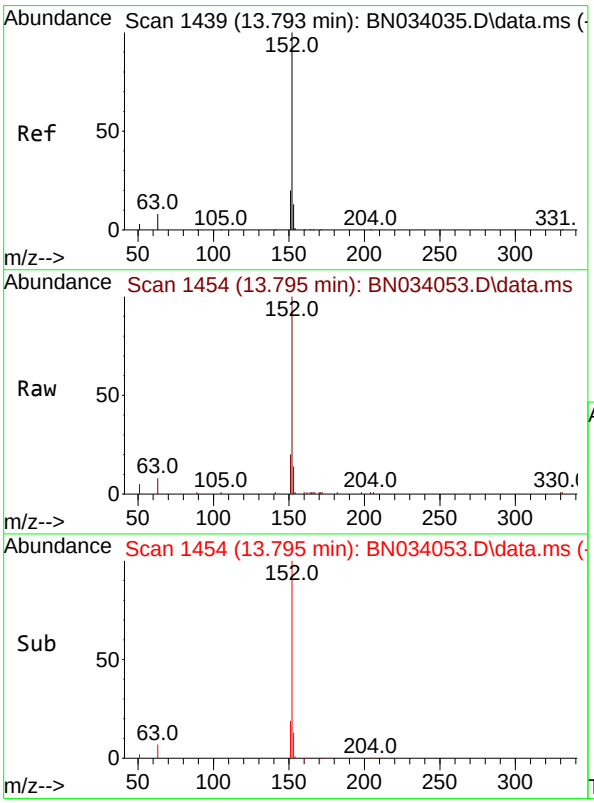
#15
2-Fluorobiphenyl
Concen: 0.503 ng
RT: 12.693 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:172 Resp: 15724

Ion	Ratio	Lower	Upper
172	100		
171	35.7	27.3	40.9
170	24.3	18.1	27.1

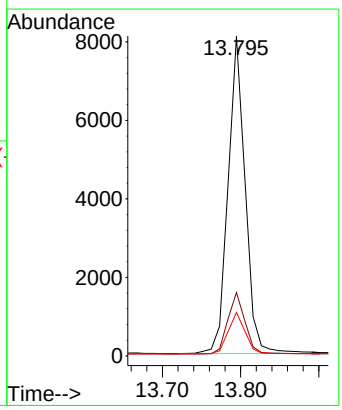


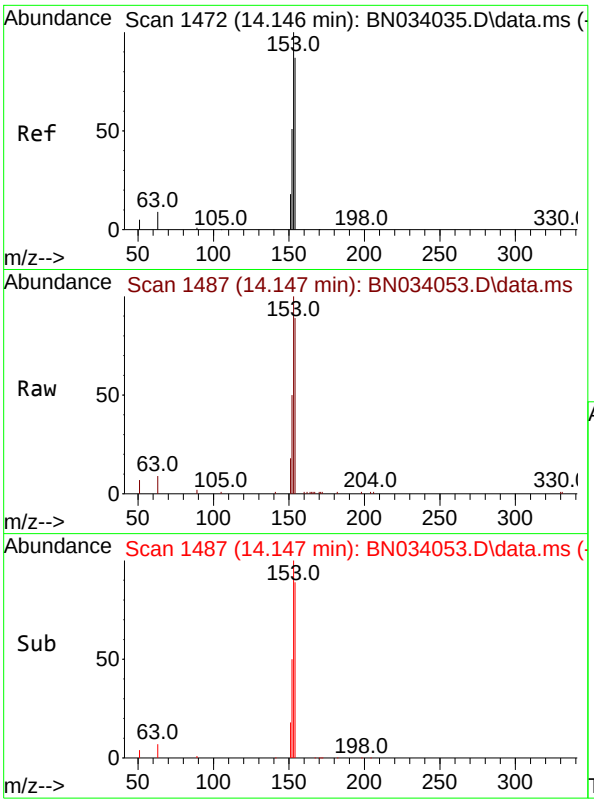


#16
Acenaphthylene
Concen: 0.372 ng
RT: 13.795 min Scan# 1454
Delta R.T. 0.002 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:152 Resp: 12252

Ion	Ratio	Lower	Upper
152	100		
151	19.4	15.6	23.4
153	13.0	10.3	15.5



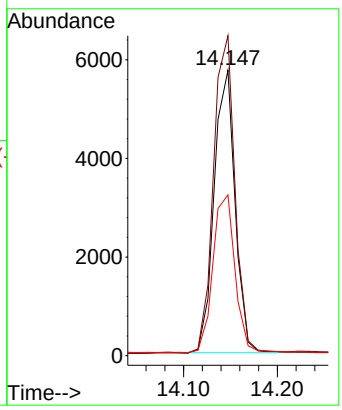


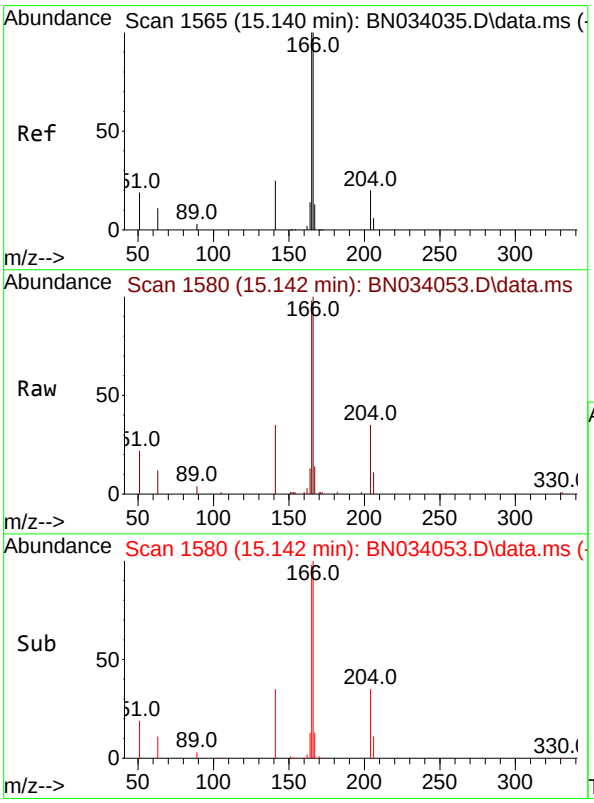
#17
Acenaphthene
Concen: 0.376 ng
RT: 14.147 min Scan# 14
Delta R.T. 0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:154 Resp: 8885

Ion	Ratio	Lower	Upper
154	100		
153	115.1	91.6	137.4
152	58.9	47.4	71.2

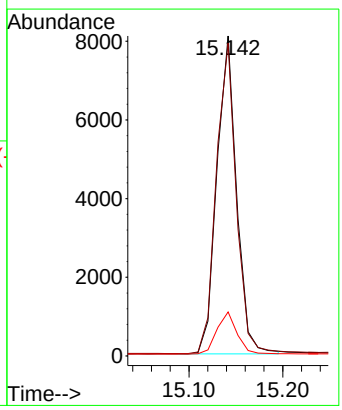


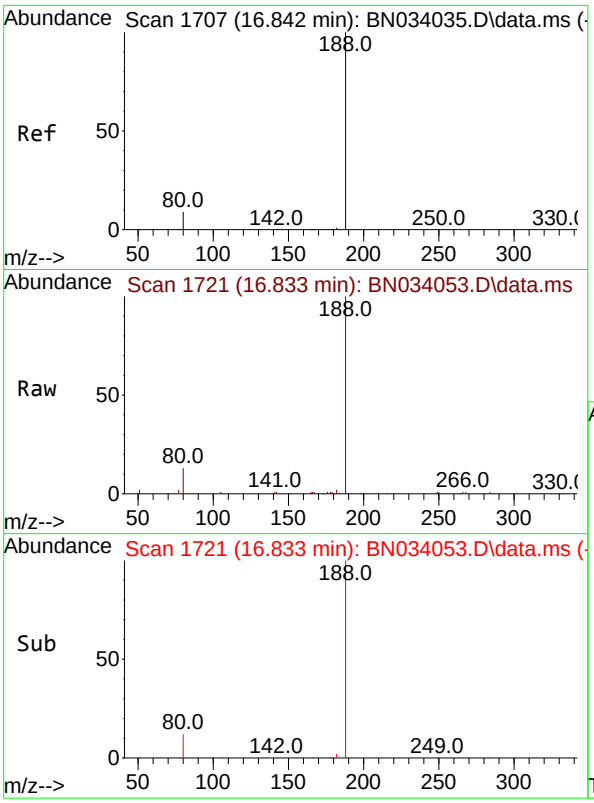


#18
Fluorene
Concen: 0.381 ng
RT: 15.142 min Scan# 1580
Delta R.T. 0.002 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:166 Resp: 11814

Ion	Ratio	Lower	Upper
166	100		
165	98.7	79.1	118.7
167	13.4	10.6	15.8



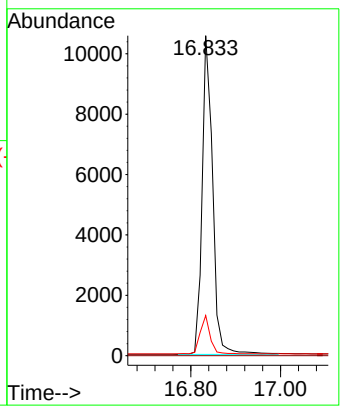


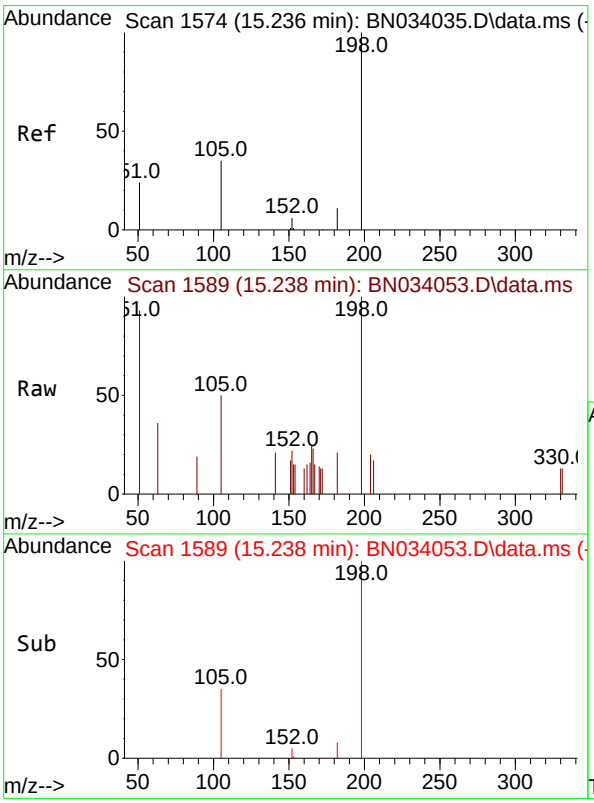
#19
Phenanthrene-d10
Concen: 0.400 ng
RT: 16.833 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:188 Resp: 17049

Ion	Ratio	Lower	Upper
188	100		
94	0.0	0.0	0.0
80	12.6	7.4	11.0#

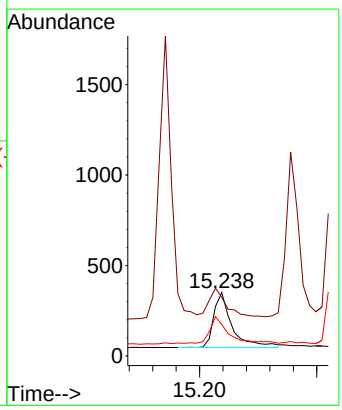


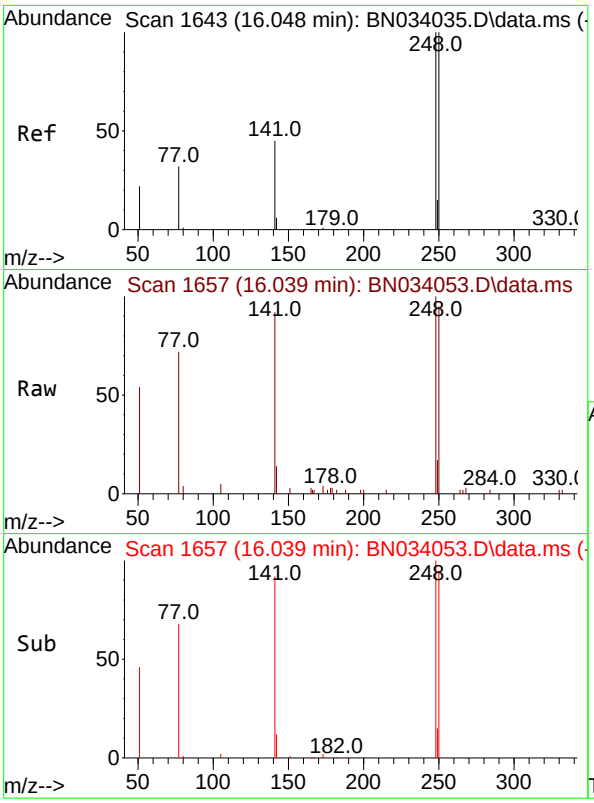


#20
4,6-Dinitro-2-methylphenol
Concen: 0.346 ng
RT: 15.238 min Scan# 1589
Delta R.T. 0.002 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:198 Resp: 659

Ion	Ratio	Lower	Upper
198	100		
51	92.9	106.4	159.6#
105	49.7	38.5	57.7



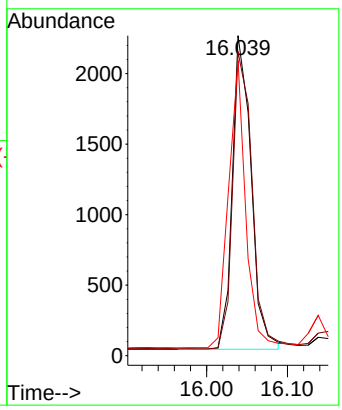


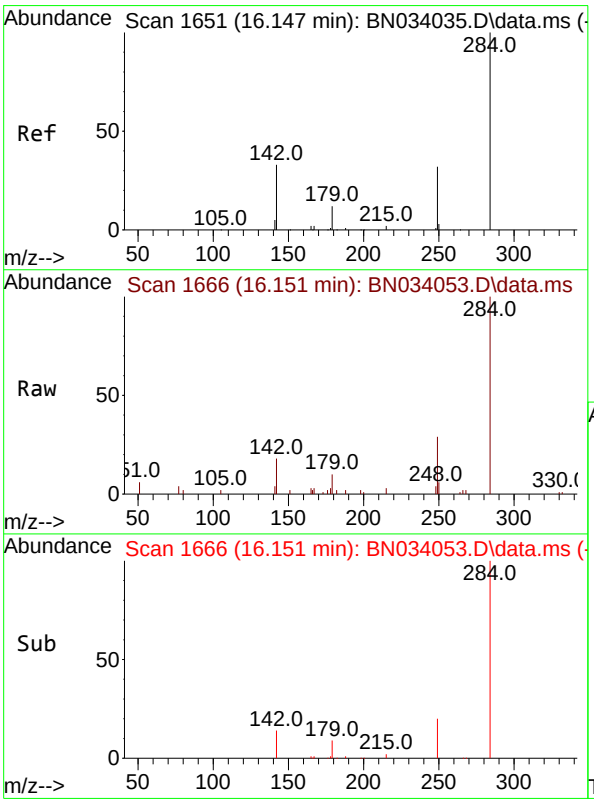
#21
4-Bromophenyl-phenylether
Concen: 0.373 ng
RT: 16.039 min Scan# 1(
Delta R.T. -0.009 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:248 Resp: 3577

Ion	Ratio	Lower	Upper
248	100		
250	94.9	80.5	120.7
141	92.3	37.1	55.7#

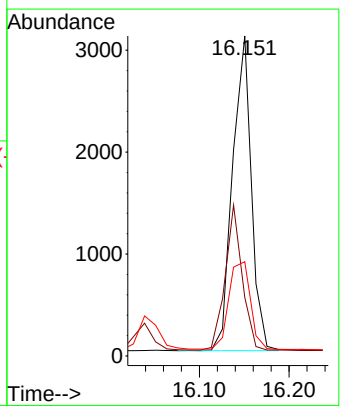


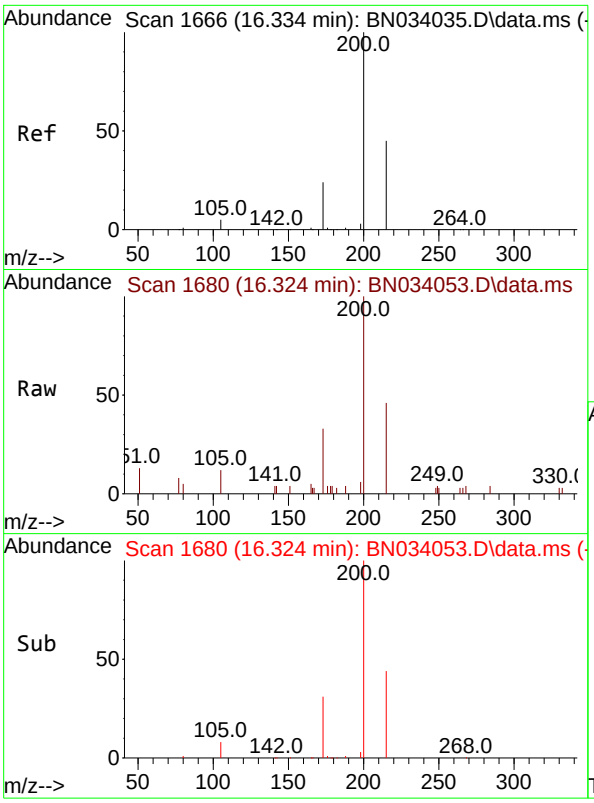


#22
Hexachlorobenzene
Concen: 0.415 ng
RT: 16.151 min Scan# 1666
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:284 Resp: 4461

Ion	Ratio	Lower	Upper
284	100		
142	41.8	34.5	51.7
249	32.1	25.8	38.6



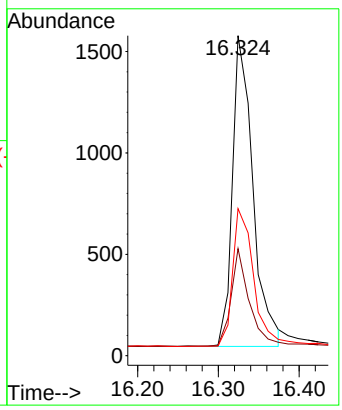


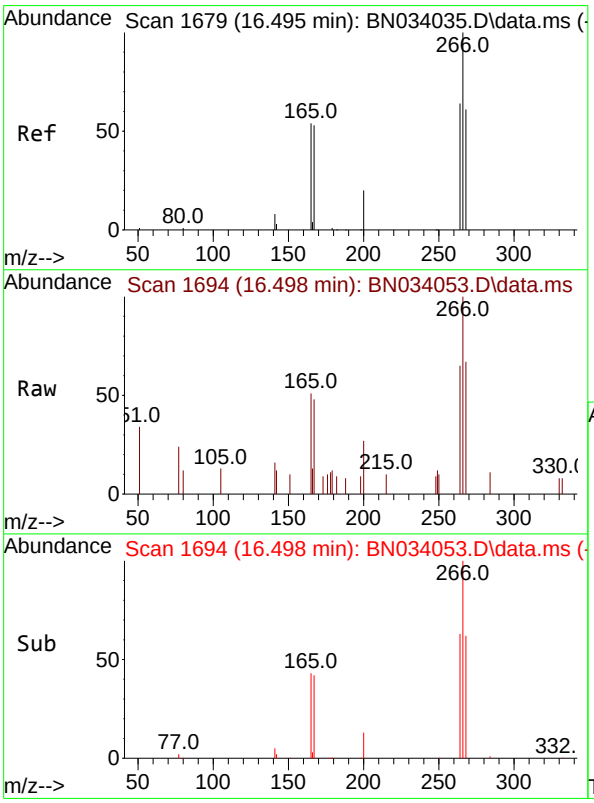
#23
Atrazine
Concen: 0.339 ng
RT: 16.324 min Scan# 1
Delta R.T. -0.009 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:200 Resp: 2693

Ion	Ratio	Lower	Upper
200	100		
173	33.5	20.1	30.1#
215	45.9	37.0	55.6

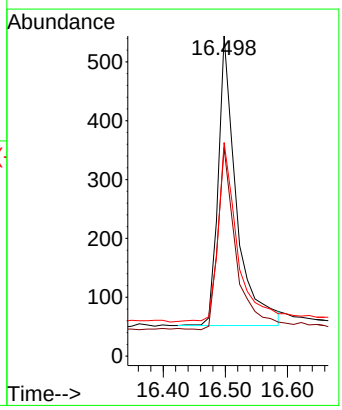


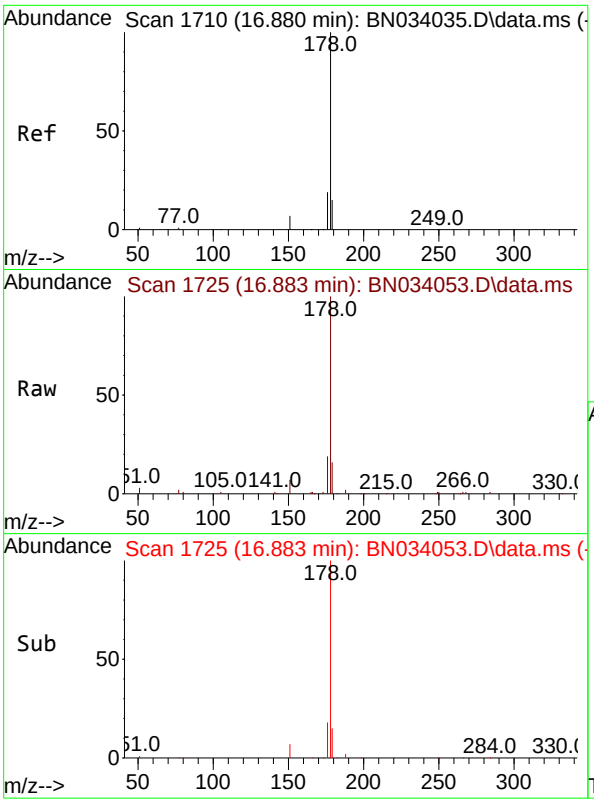


#24
Pentachlorophenol
Concen: 0.281 ng
RT: 16.498 min Scan# 1694
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:266 Resp: 997

Ion	Ratio	Lower	Upper
266	100		
264	62.2	50.2	75.2
268	65.1	51.0	76.4



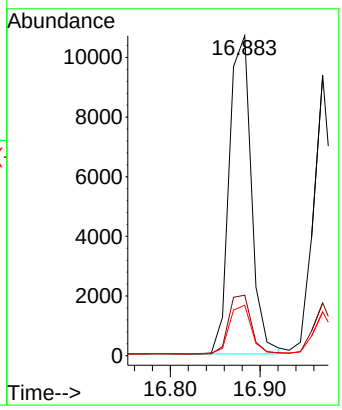


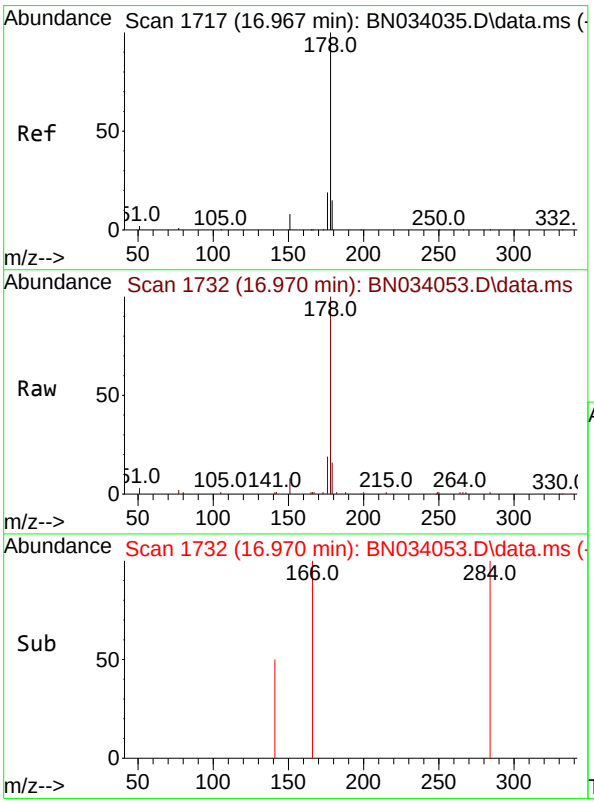
#25
Phenanthrene
Concen: 0.371 ng
RT: 16.883 min Scan# 1
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:178 Resp: 18179

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.3	12.1	18.1

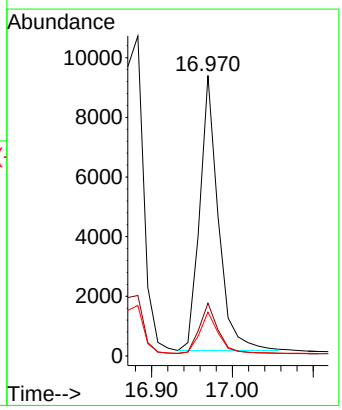


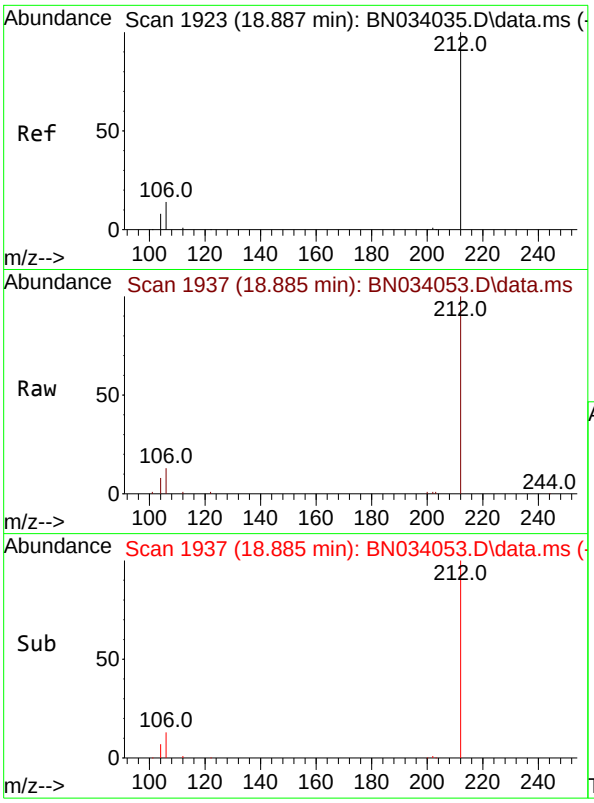


#26
Anthracene
Concen: 0.370 ng
RT: 16.970 min Scan# 1732
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:178 Resp: 14776

Ion	Ratio	Lower	Upper
178	100		
176	18.5	15.0	22.6
179	15.0	12.2	18.4



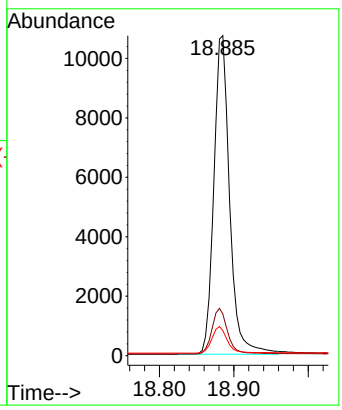


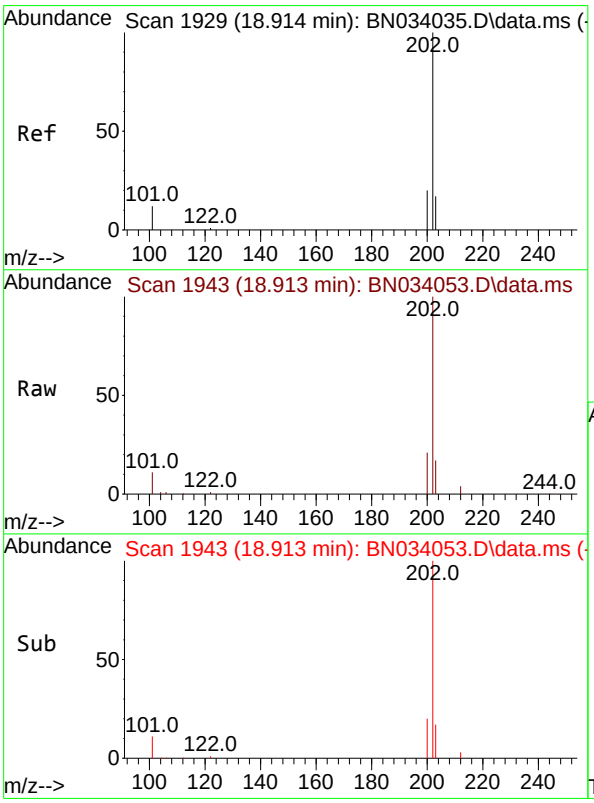
#27
Fluoranthene-d10
Concen: 0.368 ng
RT: 18.885 min Scan# 1
Delta R.T. -0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:212 Resp: 15813

Ion	Ratio	Lower	Upper
212	100		
106	14.3	13.4	20.2
104	8.1	7.8	11.6

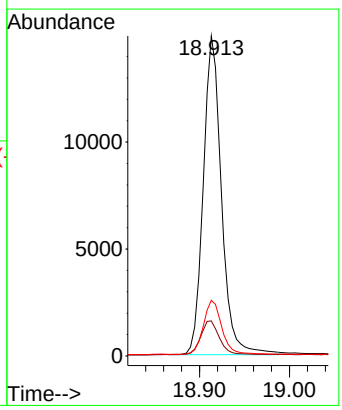


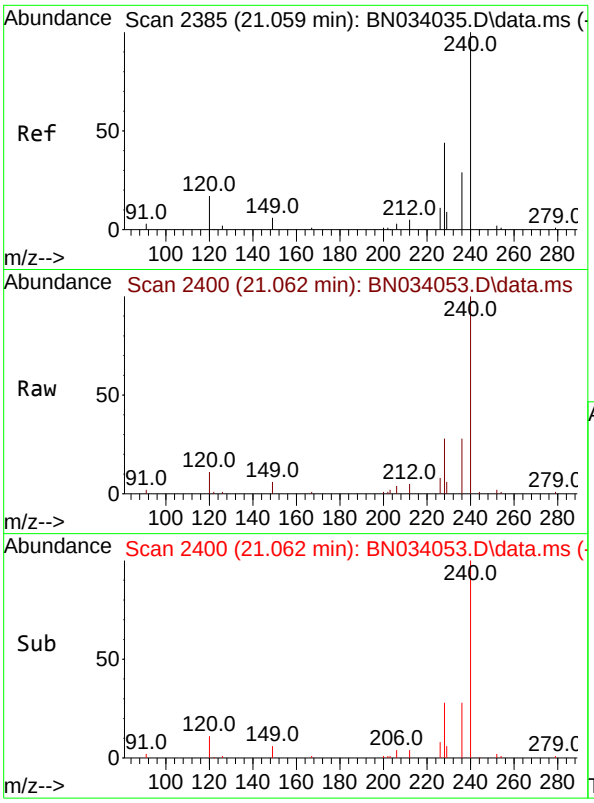


#28
Fluoranthene
Concen: 0.370 ng
RT: 18.913 min Scan# 1943
Delta R.T. -0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:202 Resp: 20987

Ion	Ratio	Lower	Upper
202	100		
101	11.3	10.1	15.1
203	17.1	13.6	20.4



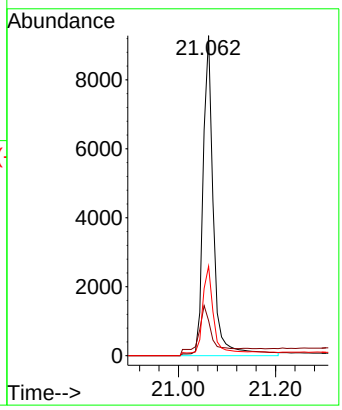


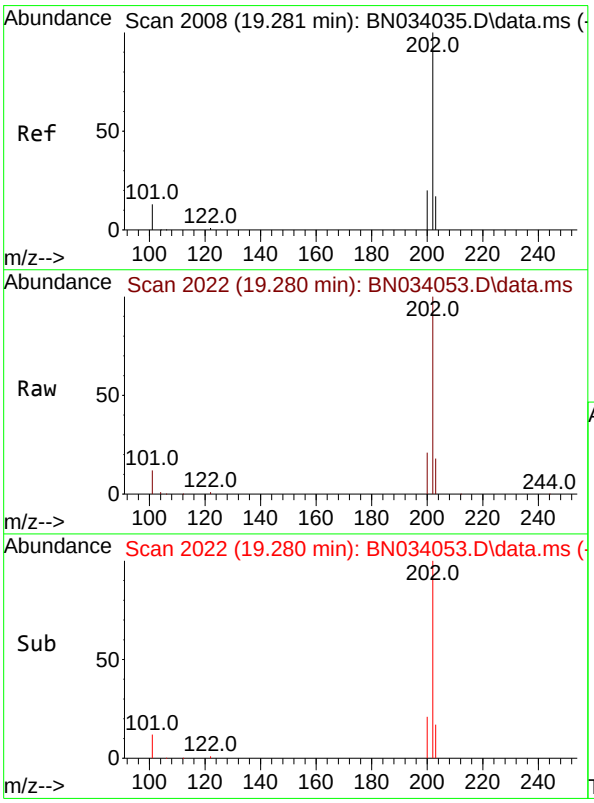
#29
Chrysene-d12
Concen: 0.400 ng
RT: 21.062 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:240 Resp: 13235

Ion	Ratio	Lower	Upper
240	100		
120	11.0	13.5	20.3#
236	27.9	23.4	35.0

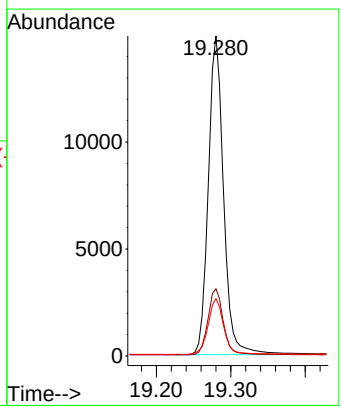


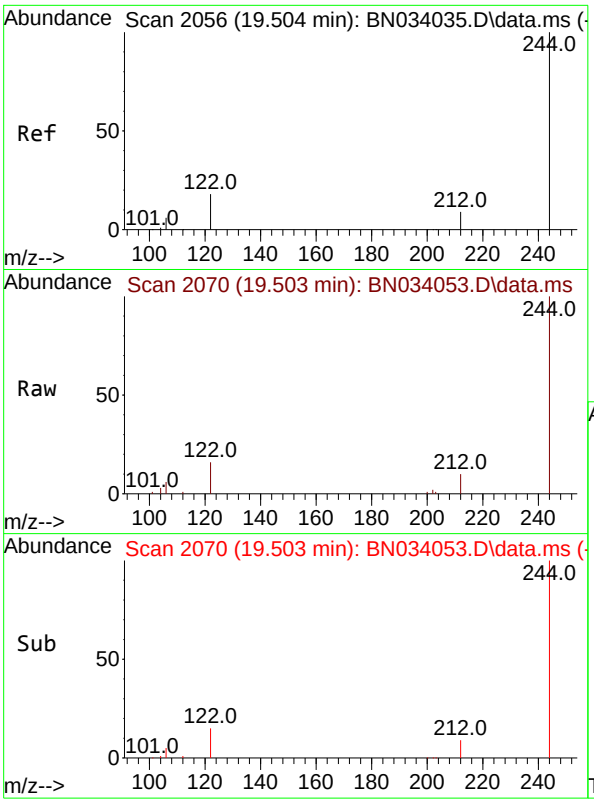


#30
Pyrene
Concen: 0.378 ng
RT: 19.280 min Scan# 2022
Delta R.T. -0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:202 Resp: 21143

Ion	Ratio	Lower	Upper
202	100		
200	21.0	16.6	25.0
203	17.9	14.3	21.5



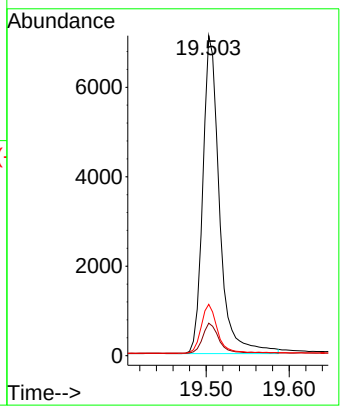


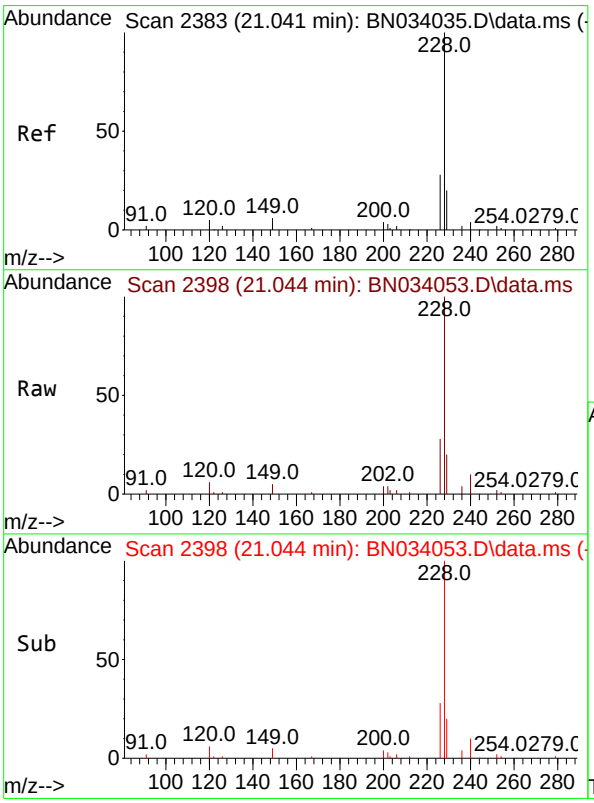
#31
Terphenyl-d14
Concen: 0.377 ng
RT: 19.503 min Scan# 2
Delta R.T. -0.001 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:244 Resp: 9957

Ion	Ratio	Lower	Upper
244	100		
212	10.1	7.8	11.6
122	16.0	14.8	22.2

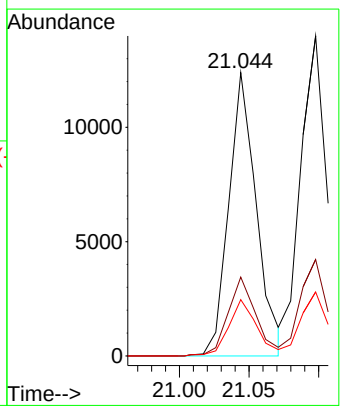


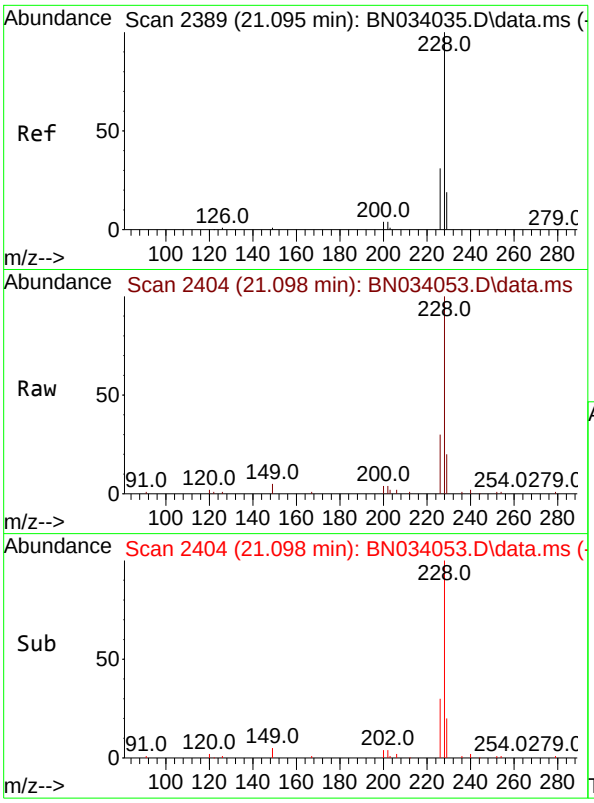


#32
Benzo(a)anthracene
Concen: 0.365 ng
RT: 21.044 min Scan# 2398
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:228 Resp: 15285

Ion	Ratio	Lower	Upper
228	100		
226	27.8	22.3	33.5
229	19.9	15.7	23.5



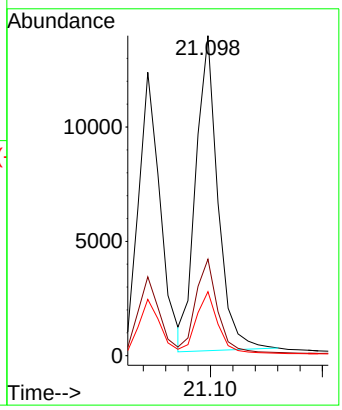


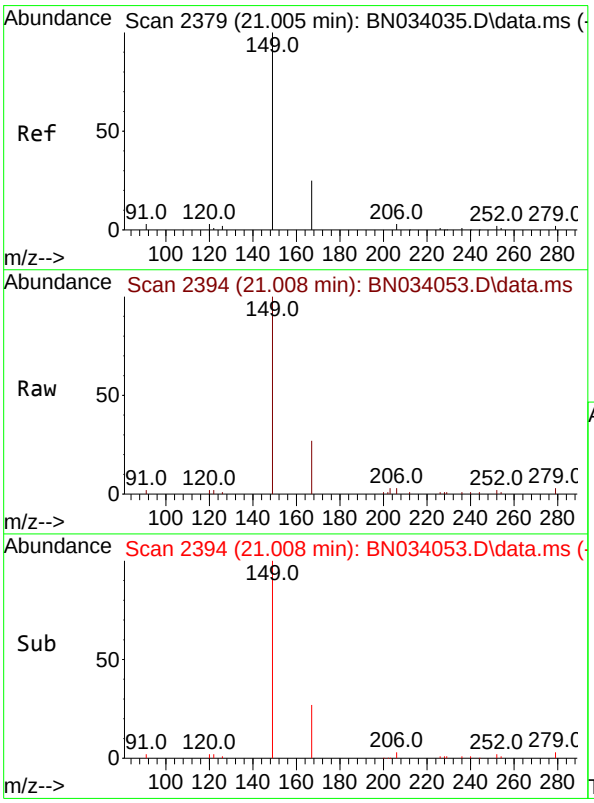
#33
Chrysene
Concen: 0.378 ng
RT: 21.098 min Scan# 24
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:228 Resp: 18880

Ion	Ratio	Lower	Upper
228	100		
226	30.1	24.6	37.0
229	20.0	15.5	23.3

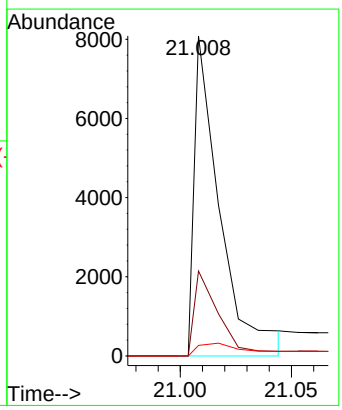


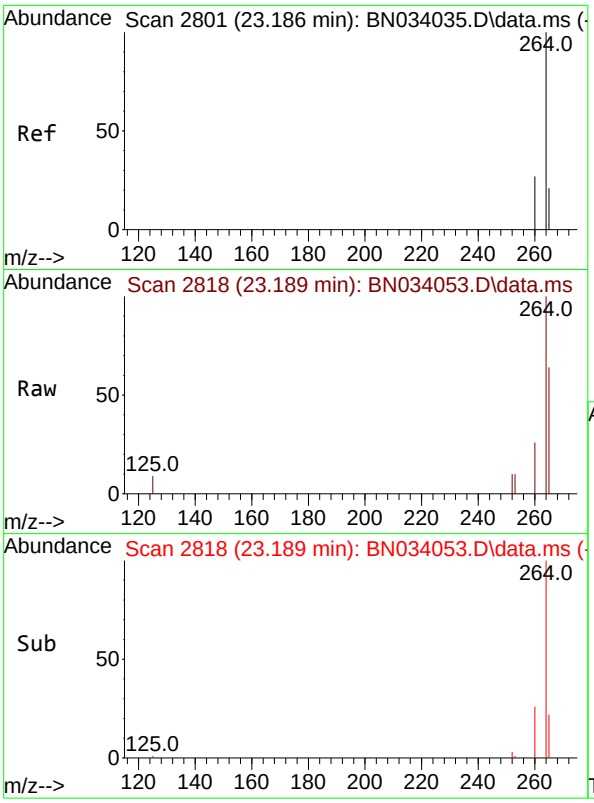


#34
Bis(2-ethylhexyl)phthalate
Concen: 0.365 ng
RT: 21.008 min Scan# 2394
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:149 Resp: 6364

Ion	Ratio	Lower	Upper
149	100		
167	26.1	19.9	29.9
279	7.1	4.6	6.8#



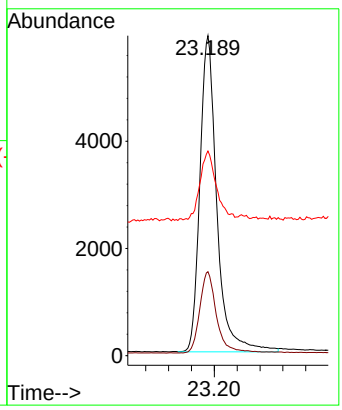


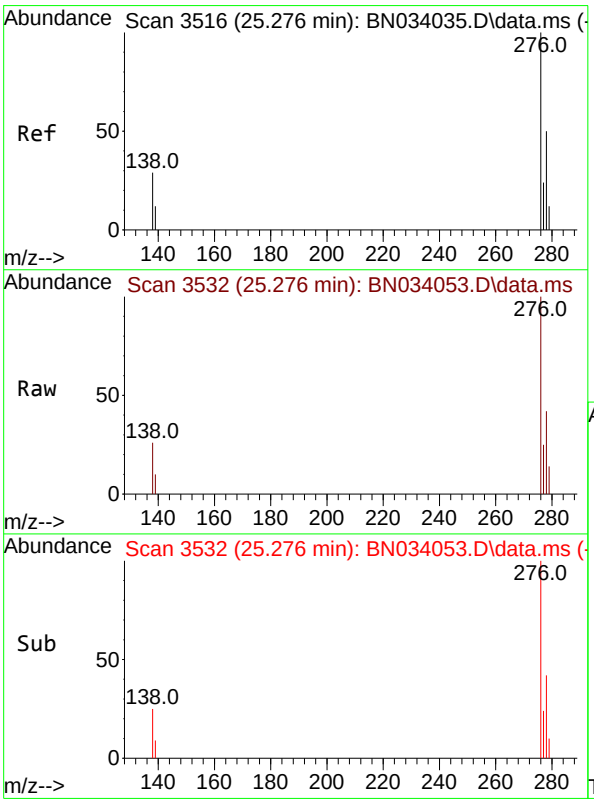
#35
Perylene-d12
Concen: 0.400 ng
RT: 23.189 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:264 Resp: 12101

Ion	Ratio	Lower	Upper
264	100		
260	26.3	21.7	32.5
265	64.0	52.1	78.1

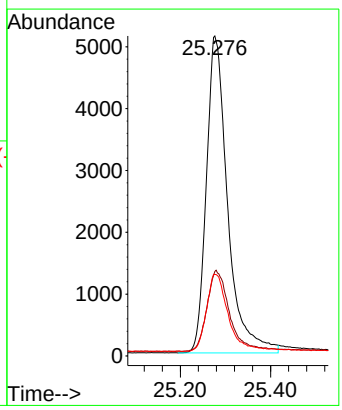


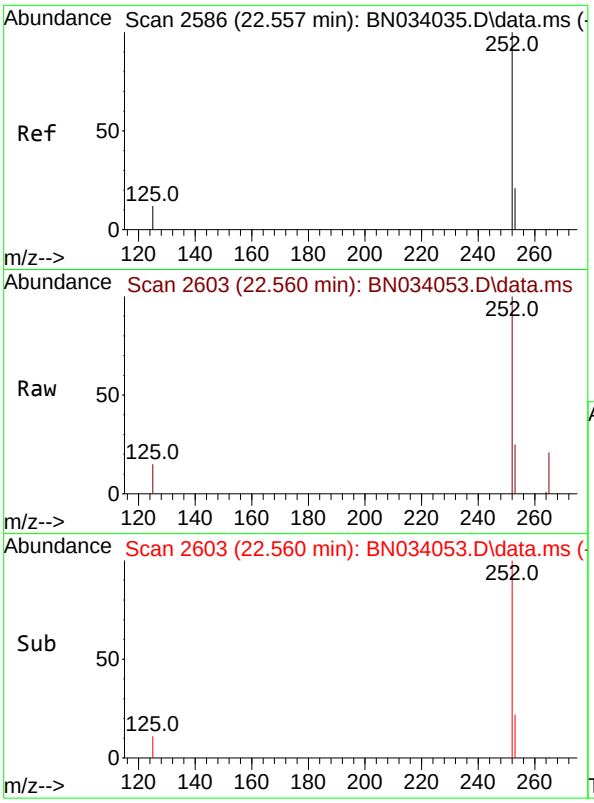


#36
Indeno(1,2,3-cd)pyrene
Concen: 0.324 ng
RT: 25.276 min Scan# 3532
Delta R.T. 0.000 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:276 Resp: 16791

Ion	Ratio	Lower	Upper
276	100		
138	27.0	25.9	38.9
277	25.0	19.7	29.5



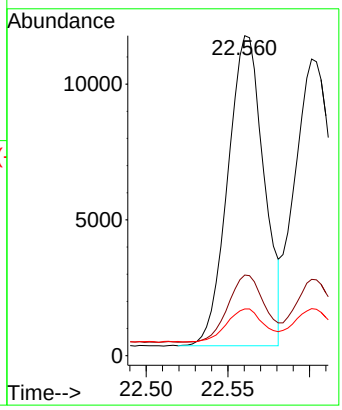


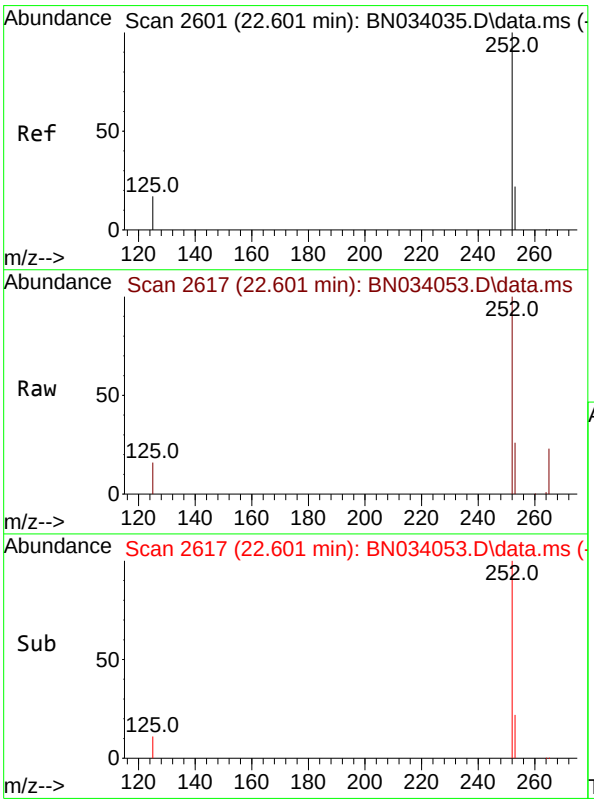
#37
Benzo(b)fluoranthene
Concen: 0.370 ng
RT: 22.560 min Scan# 2
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:252 Resp: 17560

Ion	Ratio	Lower	Upper
252	100		
253	25.2	19.6	29.4
125	14.6	13.8	20.8

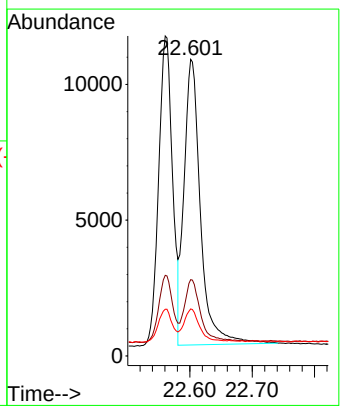


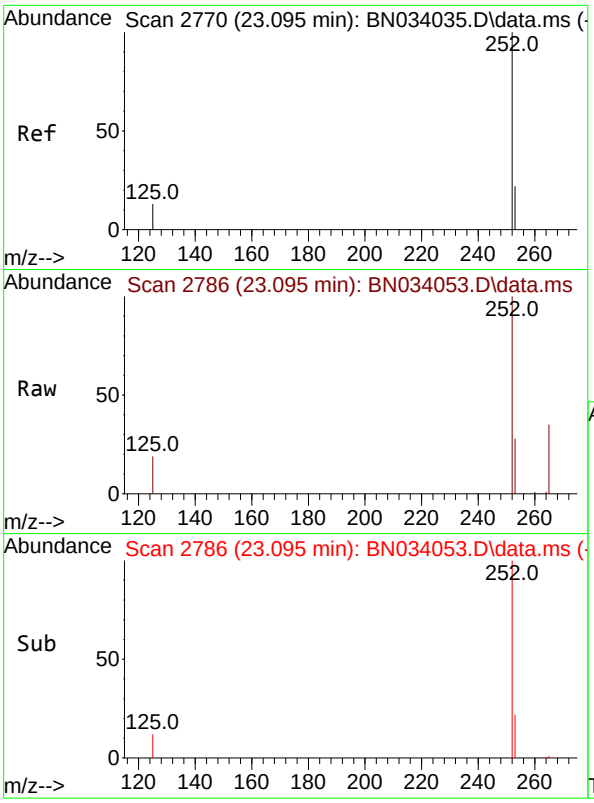


#38
Benzo(k)fluoranthene
Concen: 0.387 ng
RT: 22.601 min Scan# 2617
Delta R.T. 0.000 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:252 Resp: 19268

Ion	Ratio	Lower	Upper
252	100		
253	25.7	20.1	30.1
125	15.8	16.8	25.2#



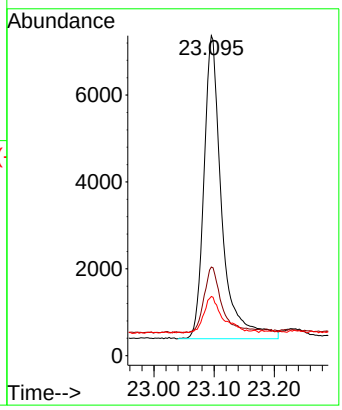


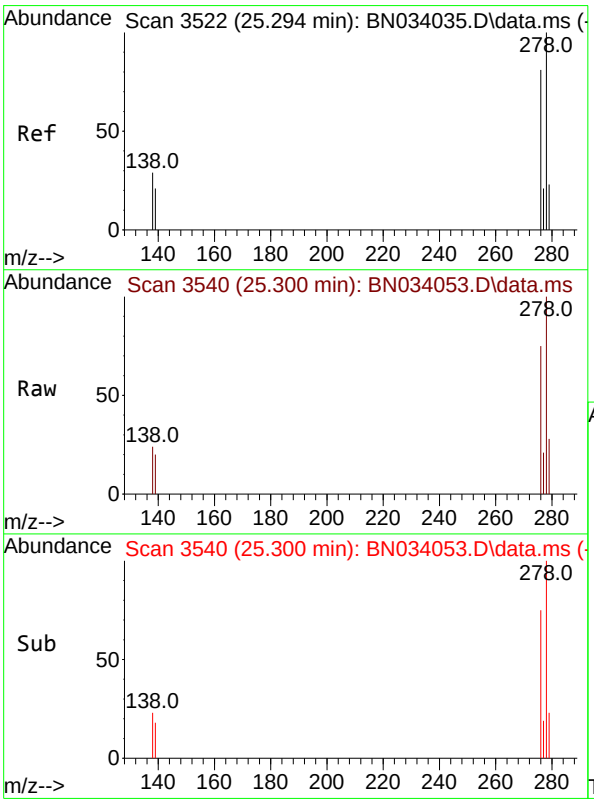
#39
Benzo(a)pyrene
Concen: 0.372 ng
RT: 23.095 min Scan# 2
Delta R.T. 0.000 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:252 Resp: 14364

Ion	Ratio	Lower	Upper
252	100		
253	27.7	21.8	32.8
125	18.5	17.5	26.3

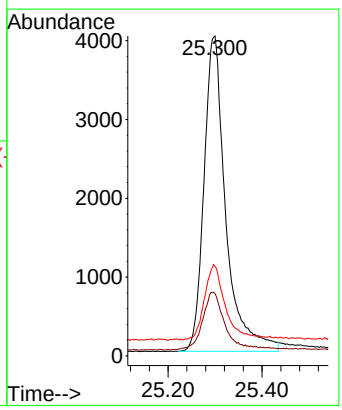


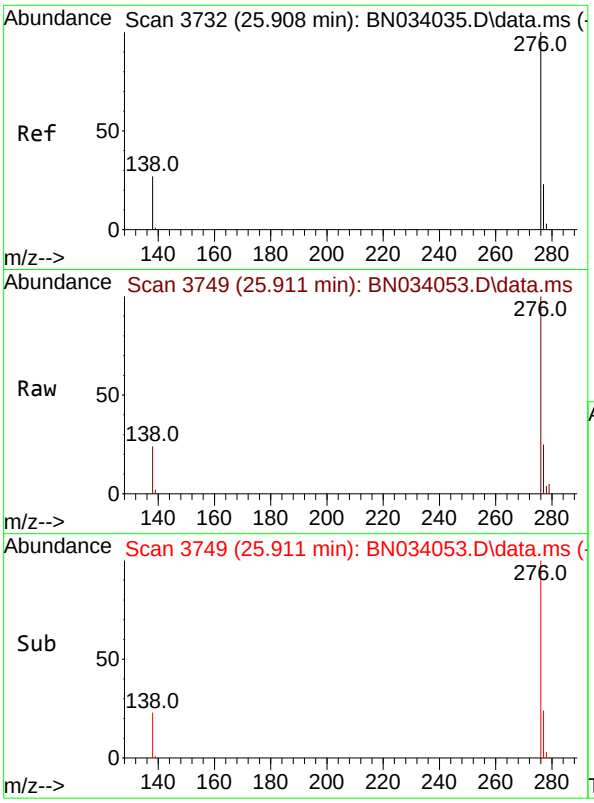


#40
Dibenzo(a,h)anthracene
Concen: 0.320 ng
RT: 25.300 min Scan# 3540
Delta R.T. 0.006 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Tgt Ion:278 Resp: 12898

Ion	Ratio	Lower	Upper
278	100		
139	19.5	17.8	26.8
279	27.9	21.0	31.6



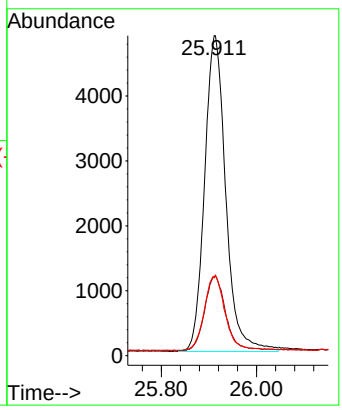


#41
Benzo(g,h,i)perylene
Concen: 0.332 ng
RT: 25.911 min Scan# 3
Delta R.T. 0.003 min
Lab File: BN034053.D
Acq: 19 Sep 2024 17:03

Instrument :
BNA_N
ClientSampleId :
PB163341BSD

Tgt Ion:276 Resp: 15023

Ion	Ratio	Lower	Upper
276	100		
277	24.8	19.3	28.9
138	24.3	22.6	34.0



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

Manual Integration Report

Sequence:	bn091924	Instrument	BNA_n

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091924

Review By	yogesh	Review On	9/19/2024 4:56:05 AM				
Supervise By	Jagrut	Supervise On	9/19/2024 10:41:11 AM				
SubDirectory	BN091924	HP Acquire Method	BNA_N		HP Processing Method	bn091924	

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BN034032.D	18 Sep 2024 08:34	JU/RC	Ok
2	SSTDICC0.1	BN034033.D	18 Sep 2024 11:53	JU/RC	Ok
3	SSTDICC0.2	BN034034.D	18 Sep 2024 12:29	JU/RC	Ok
4	SSTDICCC0.4	BN034035.D	18 Sep 2024 13:05	JU/RC	Ok
5	SSTDICC0.8	BN034036.D	18 Sep 2024 13:41	JU/RC	Ok
6	SSTDICC1.6	BN034037.D	18 Sep 2024 14:17	JU/RC	Ok
7	SSTDICC3.2	BN034038.D	18 Sep 2024 14:54	JU/RC	Ok
8	SSTDICC5.0	BN034039.D	18 Sep 2024 15:30	JU/RC	Ok
9	SSTDICV0.4	BN034040.D	18 Sep 2024 18:01	JU/RC	Ok
10	PB163341BL	BN034041.D	18 Sep 2024 18:37	JU/RC	Ok
11	P3845-08	BN034042.D	18 Sep 2024 19:13	JU/RC	Dilution
12	P3845-08DL	BN034043.D	18 Sep 2024 19:49	JU/RC	Dilution
13	P3845-21	BN034044.D	18 Sep 2024 20:26	JU/RC	Dilution
14	DFTPP	BN034045.D	19 Sep 2024 08:54	JU/RC	Ok
15	SSTDCCC0.4	BN034046.D	19 Sep 2024 09:33	JU/RC	Ok
16	PB163341BL	BN034047.D	19 Sep 2024 10:09	JU/RC	Ok
17	P3845-08DL2	BN034048.D	19 Sep 2024 11:22	JU/RC	Ok
18	P3845-21DL	BN034049.D	19 Sep 2024 13:22	JU/RC	Ok
19	P3845-05	BN034050.D	19 Sep 2024 14:33	JU/RC	Dilution
20	P3845-05DL	BN034051.D	19 Sep 2024 15:31	JU/RC	Ok
21	PB163341BS	BN034052.D	19 Sep 2024 16:27	JU/RC	Ok

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Fax : 908 789 8922

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091924

Review By	yogesh	Review On	9/19/2024 4:56:05 AM		
Supervise By	Jagrut	Supervise On	9/19/2024 10:41:11 AM		
SubDirectory	BN091924	HP Acquire Method	BNA_N	HP Processing Method	bn091924

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	PB163341BSD	BN034053.D	19 Sep 2024 17:03	JU/RC	Ok
23	P3970-03	BN034054.D	19 Sep 2024 17:40	JU/RC	ReRun
24	P3972-01	BN034055.D	19 Sep 2024 18:15	JU/RC	Ok
25	P3972-02	BN034056.D	19 Sep 2024 18:52	JU/RC	Ok
26	P3972-04	BN034057.D	19 Sep 2024 19:28	JU/RC	Ok
27	SSTDCCC0.4	BN034058.D	19 Sep 2024 20:04	JU/RC	Ok

M : Manual Integration

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

Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091924

Review By	yogesh	Review On	9/19/2024 4:56:05 AM		
Supervise By	Jagrut	Supervise On	9/19/2024 10:41:11 AM		
SubDirectory	BN091924	HP Acquire Method	BNA_N	HP Processing Method	bn091924

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BN034032.D	18 Sep 2024 08:34		JU/RC	Ok
2	SSTDICC0.1	SSTDICC0.1	BN034033.D	18 Sep 2024 11:53	Compound#20,34 removed from 0.1 ppm	JU/RC	Ok
3	SSTDICC0.2	SSTDICC0.2	BN034034.D	18 Sep 2024 12:29	Compound#20 Kept on LR	JU/RC	Ok
4	SSTDICCC0.4	SSTDICCC0.4	BN034035.D	18 Sep 2024 13:05	The Calibration is Good For DOD	JU/RC	Ok
5	SSTDICC0.8	SSTDICC0.8	BN034036.D	18 Sep 2024 13:41		JU/RC	Ok
6	SSTDICC1.6	SSTDICC1.6	BN034037.D	18 Sep 2024 14:17		JU/RC	Ok
7	SSTDICC3.2	SSTDICC3.2	BN034038.D	18 Sep 2024 14:54		JU/RC	Ok
8	SSTDICC5.0	SSTDICC5.0	BN034039.D	18 Sep 2024 15:30	Compound#20,24 removed from 5 ppm	JU/RC	Ok
9	SSTDICV0.4	ICVBN091924	BN034040.D	18 Sep 2024 18:01		JU/RC	Ok
10	PB163341BL	PB163341BL	BN034041.D	18 Sep 2024 18:37		JU/RC	Ok
11	P3845-08	PT-ACIDS-WP	BN034042.D	18 Sep 2024 19:13	Need 5X Dilution	JU/RC	Dilution
12	P3845-08DL	PT-ACIDS-WPDL	BN034043.D	18 Sep 2024 19:49	Need Further 10X Dilution	JU/RC	Dilution
13	P3845-21	RR-PAH-WP	BN034044.D	18 Sep 2024 20:26	Need 10X Dilution	JU/RC	Dilution
14	DFTPP	DFTPP	BN034045.D	19 Sep 2024 08:54		JU/RC	Ok
15	SSTDCCC0.4	SSTDCCC0.4	BN034046.D	19 Sep 2024 09:33		JU/RC	Ok
16	PB163341BL	PB163341BL	BN034047.D	19 Sep 2024 10:09		JU/RC	Ok
17	P3845-08DL2	PT-ACIDS-WPDL2	BN034048.D	19 Sep 2024 11:22		JU/RC	Ok

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Instrument ID: BNA_N

Daily Analysis Runlog For Sequence/QCBatch ID # BN091924

Review By	yogesh	Review On	9/19/2024 4:56:05 AM		
Supervise By	Jagrut	Supervise On	9/19/2024 10:41:11 AM		
SubDirectory	BN091924	HP Acquire Method	BNA_N	HP Processing Method	bn091924

STD. NAME	STD REF.#
Tune/Reschk	SP6573
Initial Calibration Stds	SP6603,SP6602,SP6601,SP6600,SP6599,SP6598,SP6597
CCC	SP6601
Internal Standard/PEM	SP6527
ICV/I.BLK	SP6548
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

18	P3845-21DL	RR-PAH-WPDL	BN034049.D	19 Sep 2024 13:22		JU/RC	Ok
19	P3845-05	PT-BN-WP	BN034050.D	19 Sep 2024 14:33	Need 50X Dilution	JU/RC	Dilution
20	P3845-05DL	PT-BN-WPDL	BN034051.D	19 Sep 2024 15:31		JU/RC	Ok
21	PB163341BS	PB163341BS	BN034052.D	19 Sep 2024 16:27		JU/RC	Ok
22	PB163341BSD	PB163341BSD	BN034053.D	19 Sep 2024 17:03		JU/RC	Ok
23	P3970-03	BPOW6-8-HYD-202409	BN034054.D	19 Sep 2024 17:40	Surrogate Fail	JU/RC	ReRun
24	P3972-01	RW7-SP100-20240911	BN034055.D	19 Sep 2024 18:15		JU/RC	Ok
25	P3972-02	RW7-SP201-20240911	BN034056.D	19 Sep 2024 18:52		JU/RC	Ok
26	P3972-04	RW7-SP303-20240911	BN034057.D	19 Sep 2024 19:28		JU/RC	Ok
27	SSTDCCC0.4	SSTDCCC0.4EC	BN034058.D	19 Sep 2024 20:04		JU/RC	Ok

M : Manual Integration

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB163341

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3574

Extraction By: RS

Filter By: RS

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 09/12/2024

Extraction Start Time : 12:00

Extraction End Date : 09/12/2024

Extraction End Time : 16:55

Concentration By: EH

Supervisor By : rajesh

Extraction Method: [√] Seperatory Funnel [ ] Continious Liquid/Liquid [ ] Sonication [ ] Waste Dilution [ ] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	0.4 PPM	SP6606
Surrogate	1.0ML	0.4 PPM	SP6615
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3791
Baked Na2SO4	N/A	EP2536
10N NaoH	N/A	EP2523
H2SO4 1:1	N/A	EP2524
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot#2210673. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH. Use same Extract from PB163318 For #5 & 8.

KD Bath ID: Water bath -01,02

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/12/24	RP [Ext Lab]	RC/SVOC
17:00	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB163341

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 09/12/2024

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB163341BL	SBLK341	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			SEP-01
PB163341BS	SLCS341	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			2
PB163341BSD	SLCSD341	SVOC-SIMGroup1	1000	6	RUPESH	rajesh	1			3
P3845-05	PT-BN-WP	SVOCMS Group3	1000	6	RUPESH	rajesh	1			4
P3845-08	PT-ACIDS-WP	SVOCMS Group4	1000	6	RUPESH	rajesh	1			5
P3845-21	RR-PAH-WP	SVOCMS Group5	1000	6	RUPESH	rajesh	1			6
P3970-03	BPOW6-8-HYD-20240910	SVOC-SIMGroup1	970	6	RUPESH	rajesh	1	C		7
P3972-01	RW7-SP100-20240911	SVOC-SIMGroup1	980	6	RUPESH	rajesh	1	C		8
P3972-02	RW7-SP201-20240911	SVOC-SIMGroup1	970	6	RUPESH	rajesh	1	C		9
P3972-03	RW7-SP302-20240911	SVOC-SIMGroup1	960	6	RUPESH	rajesh	1	C		10
P3972-04	RW7-SP303-20240911	SVOC-SIMGroup1	990	6	RUPESH	rajesh	1	C		11

* **Extracts relinquished on the same date as received.**

9/12/24

183341
12:00

WORKLIST(Hardcopy Internal Chain)

WorkList Name : P3970 **WorkList ID :** 183431 **Department :** Extraction **Date :** 09-12-2024 11:55:38

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
P3845-05	PT-BN-WP	Water	SVOCMS Group3	Cool 4 deg C	CHEM02	QA Of	09/03/2024	8270-Modified
P3845-08	PT-ACIDS-WP	Water	SVOCMS Group4	Cool 4 deg C	CHEM02	QA Of	09/03/2024	8270-Modified
P3845-21	RR-PAH-WP	Water	SVOCMS Group5	Cool 4 deg C	CHEM02	QA Of	09/03/2024	8270-Modified
P3970-03	BPOW6-8-HYD-20240910	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H53	09/10/2024	8270-Modified
P3972-01	RW7-SP100-20240911	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H53	09/11/2024	8270-Modified
P3972-02	RW7-SP201-20240911	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H53	09/11/2024	8270-Modified
P3972-03	RW7-SP302-20240911	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H53	09/11/2024	8270-Modified
P3972-04	RW7-SP303-20240911	Water	SVOC-SIMGroup1	Cool 4 deg C	TETR06	H53	09/11/2024	8270-Modified

Date/Time 09/12/24 11:57
Raw Sample Received by: RS (Ext Lab)
Raw Sample Relinquished by: L. C Sun

Date/Time 09/12/24 12:25
Raw Sample Received by: L. C Sun
Raw Sample Relinquished by: RS (Ext Lab)

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Prep Standard - Chemical Standard Summary

Order ID : P3845

Test : SVOCMS Group4

Prepbatch ID : PB163341,

Sequence ID/Qc Batch ID: bn091924,bn091924,BN091924,BN091924,BN092124,BN092524,

Standard ID :
EP2523,EP2524,EP2536,SP6527,SP6547,SP6548,SP6573,SP6596,SP6597,SP6598,SP6599,SP6600,SP6601,SP6602,SP6603,SP6606,SP6615,

Chemical ID :
E3551,E3657,E3746,E3759,E3768,E3786,E3788,E3791,M5037,S10103,S10247,S10782,S10977,S11003,S11011,S11097,S11494,S11566,S11766,S11771,S12029,S12077,S12096,S12105,S12112,S12113,S12117,S12126,S12453,W3112,

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1874	10 N SODIUM HYDROXIDE SOLN	EP2523	08/14/2024	02/14/2025	Rajesh Parikh	Extraction_SCALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 08/14/2024

FROM 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
314	1.1 H2SO4 SOLN	EP2524	08/14/2024	12/15/2024	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 08/14/2024

FROM 1000.00000ml of M5037 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Extractions STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3923	Baked Sodium Sulfate	EP2536	09/10/2024	01/03/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Rajesh Parikh 09/10/2024

FROM 1.00000gram of E3551 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3493	Internal Standard 0.4 PPM	SP6527	06/10/2024	12/05/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/05/2024

FROM 0.10000ml of S12029 + 4.90000ml of E3759 = Final Quantity: 5.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3355	8270-SIM MDL-3.2PPM CALIBRATION STOCK SOL- 2ND SOURCE	SP6547	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024

FROM 0.00630ml of S10977 + 0.01280ml of S11003 + 0.03200ml of S10782 + 0.03200ml of S11766 + 0.06400ml of S11566 + 0.06400ml of S12096 + 0.06400ml of S12117 + 19.72490ml of E3746 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3356	8270-SIM MDL-0.4PPM CALIBRATION SOL ICV-2ND SOURCE	SP6548	07/08/2024	11/21/2024	Jagrut Upadhyay	None	None	mohammad ahmed 07/08/2024

FROM 0.87500ml of E3746 + 0.01000ml of SP6527 + 0.12500ml of SP6547 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3895	50 ug/ml DFTPP 8270E	SP6573	07/15/2024	01/08/2025	Rahul Chavli	None	None	Yogesh Patel 07/17/2024

FROM 1.00000ml of S10247 + 19.00000ml of E3768 = Final Quantity: 20.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3339	8270 sim calibration stock 10ppm (CPI)	SP6596	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.02500ml of S12113 + 0.03350ml of S10103 + 0.05000ml of S11494 + 0.10000ml of S12112 + 0.12500ml of S10782 + 0.25000ml of S11097 + 0.25000ml of S12077 + 24.16650ml of E3786 = Final Quantity: 25.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3361	8270-SIM MDL-5PPM CALIBRATION SOLUTION	SP6597	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6596 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3341	8270-SIM MDL-3.2PPM CALIBRATION SOLUTION	SP6598	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.68000ml of E3786 + 0.01000ml of SP6527 + 0.32000ml of SP6596 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3344	8270-SIM MDL-1.6PPM CALIBRATION SOLUTION	SP6599	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.84000ml of E3786 + 0.01000ml of SP6527 + 0.16000ml of SP6596 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3342	8270-SIM MDL-0.8PPM CALIBRATION SOLUTION	SP6600	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.92000ml of E3786 + 0.01000ml of SP6527 + 0.08000ml of SP6596 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3343	8270-SIM MDL-0.4PPM CALIBRATION SOLUTION	SP6601	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.96000ml of E3786 + 0.01000ml of SP6527 + 0.04000ml of SP6596 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3345	8270-SIM MDL-0.2PPM CALIBRATION SOLUTION	SP6602	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.50000ml of E3786 + 0.01000ml of SP6527 + 0.50000ml of SP6601 = Final Quantity: 1.010 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3346	8270-SIM MDL-0.1PPM CALIBRATION SOLUTION	SP6603	08/09/2024	11/21/2024	Jagrut Upadhyay	None	None	Yogesh Patel 08/21/2024

FROM 0.75000ml of E3786 + 0.01000ml of SP6527 + 0.25000ml of SP6601 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3492	8270-SIM-Spike 0.4 PPM	SP6606	08/20/2024	02/12/2025	Rahul Chavli	None	None	mohammad ahmed 08/21/2024

FROM 0.00160ml of S11011 + 0.02000ml of S11771 + 0.04000ml of S12105 + 0.04000ml of S12126 + 0.04000ml of S12453 + 99.85840ml of E3788 = Final Quantity: 100.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3491	8270-SIM-Surrogate 0.4 PPM	SP6615	09/06/2024	11/21/2024	Rahul Chavli	None	None	mohammad ahmed 09/11/2024

FROM 0.00400ml of S10977 + 0.00800ml of S11003 + 0.02000ml of S10782 + 99.96800ml of E3788 = Final Quantity: 100.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	01/03/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24C0162011	11/25/2024	05/25/2024 / Rajesh	05/08/2024 / Rajesh	E3746

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24D1962005	12/08/2024	06/08/2024 / Rajesh	05/31/2024 / Rajesh	E3759

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24E2462004	01/08/2025	07/08/2024 / Rajesh	06/21/2024 / Rajesh	E3768

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24F1062004	02/01/2025	08/01/2024 / Rajesh	07/16/2024 / Rajesh	E3786

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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)	23H1462005	02/13/2025	08/13/2024 / Rajesh	08/13/2024 / Rajesh	E3788

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G2362009	03/09/2025	09/09/2024 / Rajesh	09/03/2024 / Rajesh	E3791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000250349	12/15/2024	01/06/2022 / mohan	09/18/2021 / mohan	M5037

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	01/15/2025	07/15/2024 / Rahul	03/18/2022 / Christian	S10247

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM	A0186160	11/21/2024	05/21/2024 / Jagrut	09/07/2022 / Christian	S10782

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S10977

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0189418	11/30/2024	05/31/2024 / Jagrut	12/28/2022 / Christian	S11003

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0193449	02/20/2025	08/20/2024 / yogesh	01/13/2023 / Christian	S11011

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11097

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0201940	12/05/2024	06/05/2024 / Rahul	09/18/2023 / Kiran	S11566

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Fax : 908 789 8922

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	12/14/2024	06/14/2024 / Rahul	11/21/2023 / Rahul	S11766

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	02/20/2025	08/20/2024 / Rahul	11/21/2023 / Rahul	S11771

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0201320	12/05/2024	06/05/2024 / Rahul	12/21/2023 / Rahul	S12029

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	02/08/2025	08/08/2024 / Jagrut	01/31/2024 / Rahul	S12077

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0207706	12/05/2024	06/05/2024 / Rahul	02/05/2024 / Rahul	S12096

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0207706	02/12/2025	08/12/2024 / Rahul	02/05/2024 / Rahul	S12105

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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-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	01/09/2025	07/09/2024 / Jagrut	03/08/2024 / Rahul	S12112

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	12/05/2024	06/05/2024 / Rahul	03/15/2024 / Rahul	S12117

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0203726	02/12/2025	08/12/2024 / Rahul	03/15/2024 / Rahul	S12126

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0214021	02/12/2025	08/12/2024 / Rahul	07/23/2024 / RAHUL	S12453

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

CPI INTERNATIONAL

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(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-112090-04	440246	≤ -10 °C	Methylene Chloride	2/16/2026	CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d_4	93951-73-6	99.3	248.12.7P	7487 ± 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 ± 17.26
phenol-d6	13127-88-3	99.9	949.120.8P	7481 ± 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 ± 17.17

Received on
02/25/21
by
CG

S9236
to
S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Erica Castiglione

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

CPI INTERNATIONAL

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~~S11088~~ S11096 to S11099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	495831	≤ -10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

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Certified By: Briana Smith

Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

Certificate of Analysis

Catalog No.: Z-110381-01 **Lot No.:** 495831 **Expiration Date:** 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: Briana Smith

Briana Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 03/18/22 by CG S10242 to S10247

Catalog No. : 31615 **Lot No.:** A0182667

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol **CAS #** 87-86-5 (Lot 211229RSR) **Purity** 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) **CAS #** 5074-71-5 (Lot Q117-147) **Purity** 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine **CAS #** 92-87-5 (Lot 211228JLM) **Purity** 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT **CAS #** 50-29-3 (Lot 210916JLM) **Purity** 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

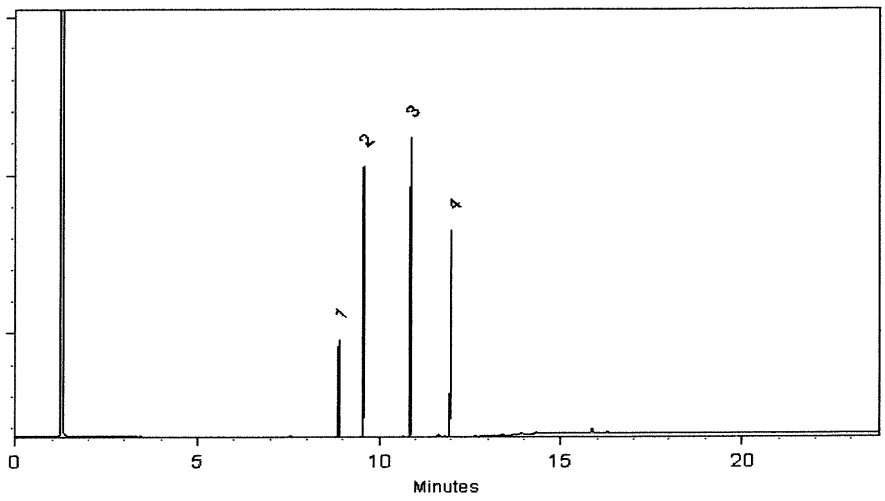
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022 **Balance:** B345965662

Merlina Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Received on 09/07/22 by CG

S10778 to S10782

Catalog No. : 33913 **Lot No.:** A0186160

Description : SOM01.0 SIM Analysis Standard

SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : May 31, 2028 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	2-Methylnaphthalene-d10	2,015.0 µg/mL	+/- 11.8254 µg/mL	Gravimetric
	CAS # 7297-45-2 (Lot EF-135)		+/- 90.7728 µg/mL	Unstressed
	Purity 96%		+/- 100.7207 µg/mL	Stressed
2	Fluoranthene-d10	2,007.0 µg/mL	+/- 11.7782 µg/mL	Gravimetric
	CAS # 93951-69-0 (Lot PR-20668)		+/- 90.4107 µg/mL	Unstressed
	Purity 99%		+/- 100.3188 µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

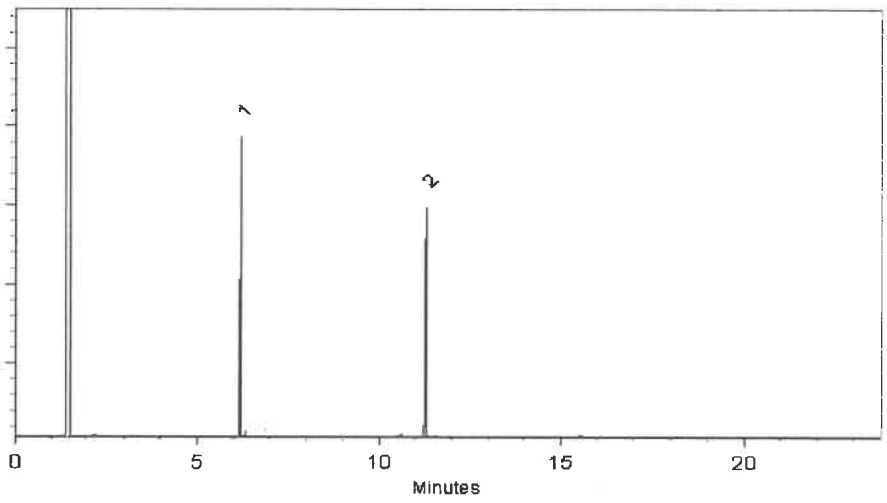
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Jun-2022 **Balance:** B442140311

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 13-Jun-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Received by CG on 12/28/22 S10951 to S10980

Catalog No. : 31087 **Lot No.:** A0188108

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2030 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound		Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	2-Fluorophenol **CAS #** 367-12-4 **Purity** 99%	(Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL +/- 294.4162 µg/mL +/- 357.2628 µg/mL		Gravimetric Unstressed Stressed
2	Phenol-d6 **CAS #** 13127-88-3 **Purity** 99%	(Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL +/- 293.0957 µg/mL +/- 355.6603 µg/mL		Gravimetric Unstressed Stressed
3	2,4,6-Tribromophenol **CAS #** 118-79-6 **Purity** 99%	(Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL +/- 292.1253 µg/mL +/- 354.4829 µg/mL		Gravimetric Unstressed Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

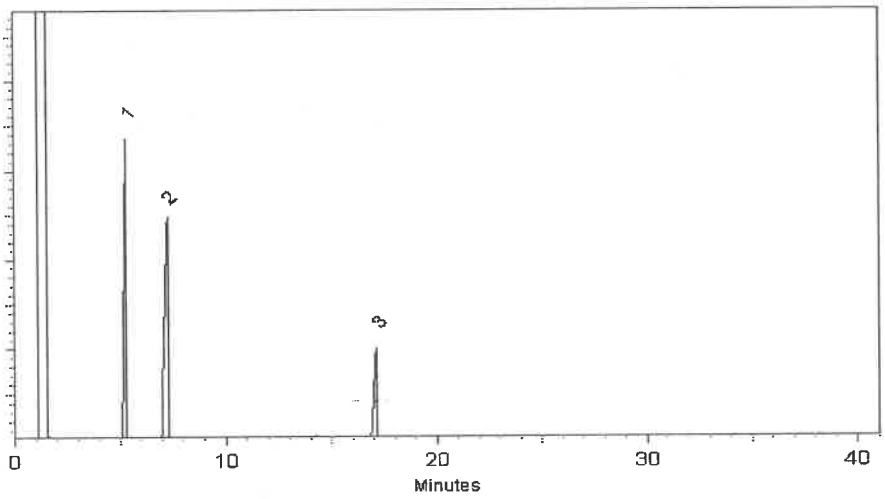
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received by CG on 12/28/22 $10981 to $11010

Catalog No. : 31086 **Lot No.:** A0189418

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : August 31, 2028 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Nitrobenzene-d5 **CAS #** 4165-60-0 (Lot PR-29940A) **Purity** 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL +/- 225.6421 µg/mL +/- 250.3778 µg/mL	Gravimetric Unstressed Stressed
2	2-Fluorobiphenyl **CAS #** 321-60-8 (Lot 00021384) **Purity** 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL +/- 226.4003 µg/mL +/- 251.2191 µg/mL	Gravimetric Unstressed Stressed
3	p-Terphenyl-d14 **CAS #** 1718-51-0 (Lot PR-30504) **Purity** 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL +/- 226.4304 µg/mL +/- 251.2524 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

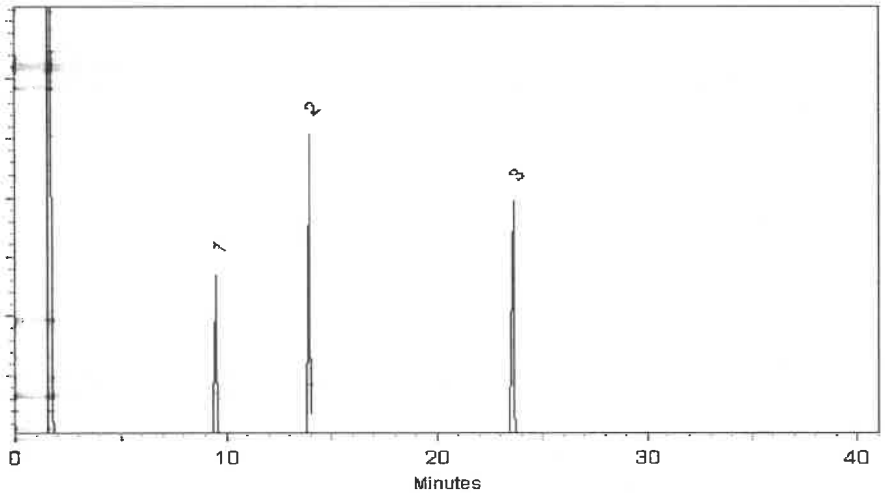
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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gravimetric

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Received on 01/13/23 by CG S11011 to S11015

Catalog No. : 555872 **Lot No.:** A0193449

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP221012	99%	25,050.0 µg/mL	+/- 778.6378

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I **Date Mixed:** 11-Jan-2023 **Balance:** B442140311

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MEXICO
CP 64070
TEL +52 81 13 52 57 57
www.pqm.com.mx

CERTIFICATE OF ANALYSIS

PRODUCT :	SODIUM SULFATE CRYSTALS ANHYDROUS		
QUALITY :	ACS (CODE RMB3375)	FORMULA :	Na_2SO_4
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO_4)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreing matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %

COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

Recd. by RB on 7/24/23 E3551

VWR®

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583
Grade: ACS GRADE
Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

E 3657	E 3659
E 3654	E 3660

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24C0162011
Manufactured Date: 2024-01-04
Expiration Date: 2025-04-04
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24A04224

E 3746

Ken Koehnlein
Sr. Manager, Quality Assurance

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24D1962005
Manufactured Date: 2024-03-16
Expiration Date: 2025-06-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	8
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	99.9 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24C16563

E 3759

JCroak

Jamie Croak
Director Quality Operations, Bioscience Production

PO: PO1-8886 PRODUCT CODE: SHIP DATE: 6/21/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 24E2462004
Manufactured Date: 2024-04-10
Expiration Date: 2025-07-10
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	3
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	3
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D10725

E 3768

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

PO: PO1-9448 PRODUCT CODE: SHIP DATE: 7/16/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

Material No.: 9266-A4
Batch No.: 24F1062004
Manufactured Date: 2024-04-15
Expiration Date: 2025-07-15
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	7
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.1 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24D15750

E 3786

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker®

Material No.: 9254-03
Batch No.: 23H1462005
Manufactured Date: 2023-07-26
Expiration Date: 2026-07-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected for water)	≥ 99.4 %	99.7 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	≤ 0.3	0.1
Titrable Base (µeq/g)	≤ 0.6	< 0.1
Water (H_2O)	≤ 0.5 %	0.3 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Recd. by RP on 8/13/24

E 3788

Ken Koehnlein
Sr. Manager, Quality Assurance

PO: PO2-76 PRODUCT CODE: SHIP DATE: 9/3/2024

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker®

Material No.: 9266-A4
Batch No.: 24G2362009
Manufactured Date: 2024-06-10
Expiration Date: 2025-09-09
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	≥ 99.8 %	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.3 ppm
Titrable Acid (µeq/g)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	≤ 0.02 %	< 0.01 %

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC
Manufacturer source batch: MG24F10024

E 3791

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M5037-38-39-40
ND

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 0000250349
Manufactured Date: 2019/12/17
Retest Date: 2024/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H_2SO_4)	95.0 - 98.0 %	96.5
Appearance	Passes Test	PT
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Substances Reducing Permanganate (as SO_2)	<= 2 ppm	< 2
Ammonium (NH_4)	<= 1 ppm	< 1
Chloride (Cl)	<= 0.1 ppm	< 0.1
Nitrate (NO_3)	<= 0.2 ppm	< 0.1
Phosphate (PO_4)	<= 0.5 ppm	< 0.1
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	0.2
Arsenic and Antimony (as As)	<= 4 ppb	< 2
Trace Impurities - Barium (Ba)	<= 10.0 ppb	< 1.0
Trace Impurities - Beryllium (Be)	<= 10.0 ppb	< 1.0
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 10.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	2.9
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 10.0 ppb	< 1.0
Trace Impurities - Germanium (Ge)	<= 10.0 ppb	< 10.0
Trace Impurities - Gold (Au)	<= 10.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 500 ppb	< 100

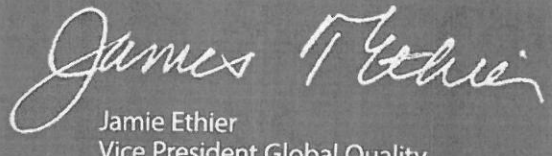
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9673-33
Batch No.: 0000250349

Test	Specification	Result
Trace Impurities - Iron (Fe)	<= 50.0 ppb	4.1
Trace Impurities - Lead (Pb)	<= 0.5 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 10.0 ppb	< 1.0
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	< 0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 10.0 ppb	< 1.0
Trace Impurities - Potassium (K)	<= 500.0 ppb	< 2.0
Trace Impurities - Selenium (Se)	<= 50.0 ppb	22.9
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 500.0 ppb	2.7
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 10.0 ppb	< 5.0
Trace Impurities - Thallium (Tl)	<= 20.0 ppb	< 5.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 10.0 ppb	< 1.0
Trace Impurities - Vanadium (V)	<= 10.0 ppb	< 1.0
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 10.0 ppb	< 1.0

For Laboratory, Research or Manufacturing Use

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

CPI INTERNATIONAL

5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received:_____

Certificate of Analysis

Rev 0

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d_4	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 to 511498 } Y.P. 08/11/2023

*Not a certified value

Certified By: _____

Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0201940

Description : Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

511539
↓
511568
Y.P. 091191

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	3,3'-Dichlorobenzidine	91-94-1	S230321RSR	99%	1,001.0 µg/mL	+/- 22.9799
2	Atrazine	1912-24-9	5FYWL	99%	1,010.0 µg/mL	+/- 23.1865
3	Benzidine	92-87-5	S221205RSR	99%	1,008.0 µg/mL	+/- 23.1406
4	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.0 µg/mL	+/- 23.1406

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Sam Moodler - Operations Tech I

REVIEWED
By Jennifer Pollino at 7:10 am, Sep 13, 2023

Date Mixed: 13-Sep-2023 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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.)

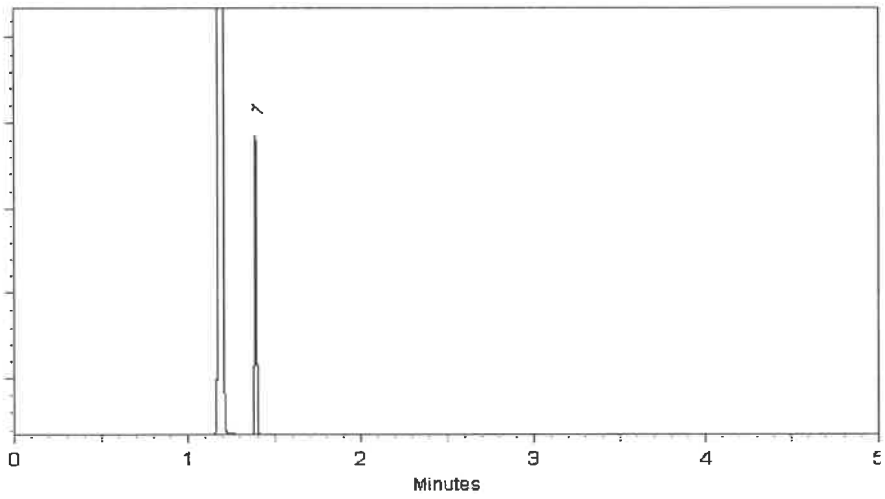
Inj. Temp:
250°C

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.

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Certificate of Analysis

chromatographic plus

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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.)

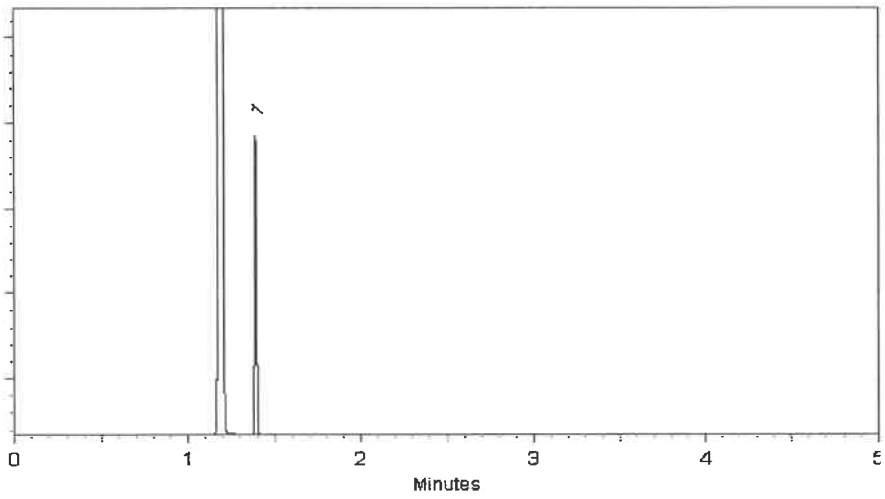
Inj. Temp:
250°C

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.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31206 **Lot No.:** A0201320

S12013 ↓ S12042 RC 12/26/23

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,017.0 µg/mL	+/- 90.8469
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,011.3 µg/mL	+/- 90.5917
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,008.6 µg/mL	+/- 90.4685
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,019.4 µg/mL	+/- 90.9550
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,013.7 µg/mL	+/- 90.6968
6	Perylene-d12	1520-96-3	PR-33205	99%	2,012.7 µg/mL	+/- 90.6517

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

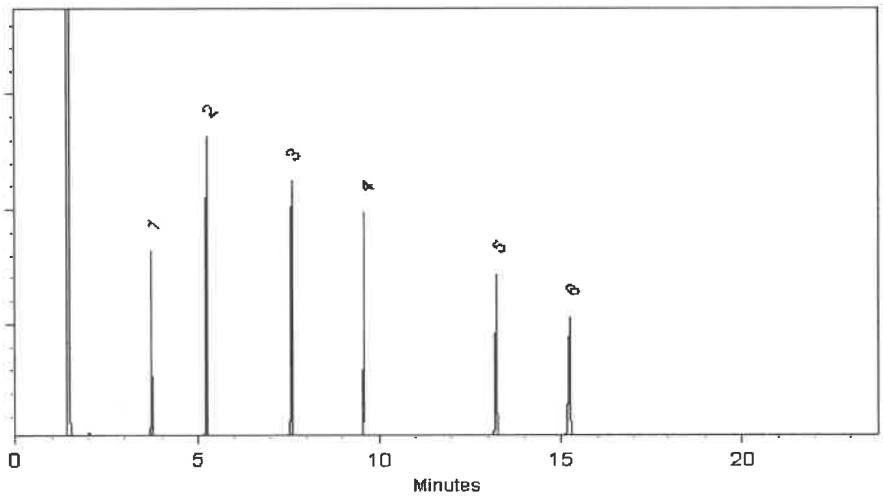
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Peter Robbins - Operations Technician I

Date Mixed: 23-Aug-2023 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 25-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

S12075
↓
S12079
RC
02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____
Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00. Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetricly.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0207706

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

S12082 ↓ S12111 RC/ 02/22/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,001.0 µg/mL	+/- 29.424320
2	Acetophenone	98-86-2	STBH8205	99%	1,004.0 µg/mL	+/- 29.512504
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.541899
4	Benzoic acid	65-85-0	MKCR2694	99%	1,003.0 µg/mL	+/- 29.483110
5	Biphenyl	92-52-4	MKCL6515	99%	1,006.0 µg/mL	+/- 29.571294

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

John Friedline - Operations Technician I

Date Mixed: 12-Feb-2024 **Balance:** B345965662

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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.

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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.

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FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12117 ↓ S12146 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12117 ↓ S12146 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCCK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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.

SHIPPING DOCUMENTS

phenova® Certified Reference Materials | A Phenomenex® Company

Packing List

Date	Order #
09/03/2024	318988

6390 Joyce Dr., #100
Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Ship To

Chemtech - NJ
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

Received by: SJ
9/5/2024
9:50

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240802-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
			PT-TMSET-WP	WP Trace Metals Set : (TM1, HG and SNTI)		
1	1	0	PT-TM1-WP	WP Trace Metals 1	WP0924	8259-04
1	1	0	PT-HG-WP	WP Mercury	WP0924	8259-05
1	1	0	PT-SNTI-WP	WP Tin & Titanium	WP0924	8259-38
1	1	0	PT-CR6-WP	WP Hexavalent Chromium	WP0924	8259-06
1	1	0	PT-DEM-WP	WP Demand	WP0924	8259-07
			PT-MINSET-WP	WP Minerals Set : (MIN1, MIN2 and COND)		
1	1	0	PT-MIN1-WP	WP Minerals 1 Only	WP0924	8259-08
1	1	0	PT-MIN2-WP	WP Minerals 2 Only	WP0924	8259-102
1	1	0	PT-COND-WP	WP Conductivity Only	WP0924	8259-72
1	1	0	PT-SOL-WP	WP Solids	WP0924	8259-09
			PT-NUTSET-WP	WP Nutrients Set : (NUT1, NUT2 and NUT3)		
1	1	0	PT-NUT1-WP	WP NUT1 Simple Nutrients Only	WP0924	8259-10
1	1	0	PT-NUT2-WP	WP NUT2 - Complex Nutrients	WP0924	8259-11
1	1	0	PT-NUT3-WP	WP NUT3 - Nitrite Only	WP0924	8259-69
1	1	0	PT-OGR1L-WP	WP Oil and Grease 1L	WP0924	8259-103
1	1	0	PT-CL-WP	WP Residual Chlorine	WP0924	8259-13
1	1	0	PT-PH-WP	WP pH	WP0924	8259-15
1	1	0	PT-CN-WP	WP Cyanide	WP0924	8259-14
1	1	0	PT-PHEN-WP	WP Phenolics	WP0924	8259-16

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Certified Reference Materials

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Golden, CO 80403

Tel: +1-303-940-0033
Fax: +1-303-940-0043
info@phenova.com
www.phenova.com

Packing List

Date	Order #
09/03/2024	318988

Ship To

Received by: SJ
9/5/2024
9:50

Chemtech - NJ
ATTN: Sohil Jodhani
284 Sheffield St., #1
Mountainside, NJ 07092
USA

For terms and conditions of your order, please visit:
www.phenova.com/home/termsofsale

Customer PO #	Terms	PT Acct #	Customer #	Ship Via	F.O.B.
240802-01	Net 30	ZCM-100	1500470	FedEx 2nd Day	Golden, CO

Qty Ordered	Qty Shipped	Qty Backorder	Part Number	Part Description	Study Number	Lot Number
1	1	0	PT-S2-WP	WP Sulfide	WP0924	8259-22
1	1	0	PT-SSOL-WP	WP Settleable Solids	WP0924	8259-17
1	1	0	PT-VSOL-WP	WP Volatile Solids	WP0924	8259-18
1	1	0	PT-TURB-WP	WP Turbidity	WP0924	8259-20
1	1	0	PT-SIO2-WP	WP Silica	WP0924	8259-21
1	1	0	PT-COL-WP	WP Color	WP0924	8259-51
1	1	0	PT-VOA-WP	WP Volatiles	WP0924	8259-26
1	1	0	PT-BN-WP	WP Base Neutrals	WP0924	8259-27
1	1	0	PT-ACIDS-WP	WP Acids	WP0924	8259-28
1	1	0	PT-PEST-WP	WP Pesticides	WP0924	8259-29
1	1	0	PT-CHLR-WP	WP Chlordane	WP0924	8259-30
1	1	0	PT-TXP-WP	WP Toxaphene	WP0924	8259-31
1	1	0	PT-PCBW-WP	WP PCBs in Water	WP0924	8259-32
1	1	0	PT-HERB-WP	WP Herbicides	WP0924	8259-36
1	1	0	RR-TPH1L-WP	WP TPH 1L	R39151	R39151-104
1	1	0	RR-PAH-WP	WP PAH-Low Level	R39151	R39151-37
1	1	0	RR-GAS-WP	WP Gasoline Range Organics	R39151	R39151-62
1	1	0	RR-DIES-WP	WP Diesel Range Organics	R39151	R39151-63
1	1	0	RR-8011-WP	WP EDB/DBCP/TCP	R39151	R39151-98
1	1	0	RR-TRIAZINE-WP	WP Triazine Pesticides	R39151	R39151-108

CHEMTECH 284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (L-A-B)	L2219
Maine	2024021
Maryland	296
New Hampshire	255423
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488