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Cover Page

Order ID : Q3177

Project ID : RFP 916

Client : Weston Solutions, Inc.

Lab Sample Number	Client Sample Number
Q3177-01	EME-TS12-01
Q3177-02	EME-TS13-01
Q3177-03	EME-TS14-02

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

Signature : _____

Date: 10/2/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Weston Solutions, Inc.
Project Name: RFP 916
Project # N/A
Order ID # Q3177
Test Name: SPLP BNA

A. Number of Samples and Date of Receipt:
3 Solid samples were received on 09/23/2025.

B. Parameters
According to the Chain of Custody document, the following analyses were requested: EPH, SPLP BNA, SPLP Cyanide, SPLP Extraction, SPLP ICP Metals, SPLP Mercury, SPLP Metals, SPLP PCB, SPLP Pesticide, SPLP VOA and SPLP ZHE Ext. This data package contains results for SPLP BNA.

C. Analytical Techniques:
The samples were analyzed on instrument BNA_F using GC Column DB-UI 8270D which is 20 meters, 0.18 mm ID, 0.36 um dfThe analysis of SPLP BNA was based on method 8270E and extraction was done based on method 3541.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.

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

The MS {Q3179-02MS} with File ID: BF143839.D recoveries met the requirements for all compounds except for 2,3,4,6-Tetrachlorophenol[124%], due to matrix interference, no corrective action is required.

The MSD {Q3179-03MSD} with File ID: BF143840.D recoveries met the acceptable requirements except for 2,3,4,6-Tetrachlorophenol[127%], due to matrix interference, no corrective action is required.

The RPD met criteria.

The Blank Spike for {PB169880BS} with File ID: BF143832.D met requirements for all samples except for 2,6-Dinitrotoluene[116%], Benzoic acid[126%] and Benzyl Alcohol[94%].The associate samples have no positive hit for these compounds therefore no corrective action was taken.

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The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Method 8270-BF092325.M for 2-Nitrophenol & 2,4-Dinitrotoluene & are passing on Linear regression, and 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, they are passing on Quadratic regression.

The Continuous Calibration File ID BF143830.D met the requirements except for 2-Nitrophenol and 4,6-Dinitro-2-methylphenol. The associate samples have no positive hit for this compound therefore no corrective action was taken.

The Tuning criteria met requirements.

E. Additional Comments:

Concentration of Water Sample:

$$\text{Concentration ug/L} = \frac{(Ax)\,(Is)\,(Vt)\,(DF)\,(GPC)}{(Ais)\,(\overline{RRF})\,(Vo)\,(Vi)}$$

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

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

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.
The soil samples results are based on a dry weight basis.

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.

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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

ORDER ID: Q3177 MATRIX: Solid

METHOD: 8270E/3541

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.		✓	
	The %RSD is greater than 20% in the Method 8270-BF092325.M for 2-Nitrophenol & 2,4-Dinitrotoluene & are passing on Linear regression, and 2,4-Dinitrophenol, 4,6-Dinitro-2-methylphenol, they are passing on Quadratic regression.			
	The Continuous Calibration File ID BF143830.D met the requirements except for 2-Nitrophenol and 4,6-Dinitro-2-methylphenol. The associate samples have no positive hit for this compound therefore no corrective action was taken.			
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.			

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

		NA	NO	YES
8.	Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria			✓

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

The MS {Q3179-02MS} with File ID: BF143839.D recoveries met the requirements for all compounds except for 2,3,4,6-Tetrachlorophenol[124%], due to matrix interference, no corrective action is required.

The MSD {Q3179-03MSD} with File ID: BF143840.D recoveries met the acceptable requirements except for 2,3,4,6-Tetrachlorophenol[127%], due to matrix interference, no corrective action is required.

The RPD met criteria.

The Blank Spike for {PB169880BS} with File ID: BF143832.D met requirements for all samples except for 2,6-Dinitrotoluene[116%], Benzoic acid[126%] and Benzyl Alcohol[94%].The associate samples have no positive hit for these compounds therefore no corrective action was taken.

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

Comments:

10.	Extraction Holding Time Met			✓

If not met, list number of days exceeded for each sample:

11.	Analysis Holding Time Met			✓

If not met, list number of days exceeded for each sample:

ADDITIONAL COMMENTS:

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

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

_____ _____

QA REVIEW Date

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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q3177**

	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:** **10/02/2025**

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LAB CHRONICLE

OrderID:	Q3177	**OrderDate:**	9/24/2025 10:36:00 AM
Client:	Weston Solutions, Inc.	**Project:**	RFP 916
Contact:	Smita Sumbaly	**Location:**	J23

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3177-01	**EME-TS12-01**	**Water**			**09/23/25**			**09/23/25**
			SPLP BNA	8270E		09/29/25	09/30/25	
Q3177-02	**EME-TS13-01**	**Water**			**09/23/25**			**09/23/25**
			SPLP BNA	8270E		09/29/25	09/30/25	
Q3177-03	**EME-TS14-02**	**Water**			**09/23/25**			**09/23/25**
			SPLP BNA	8270E		09/29/25	09/30/25	

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Hit Summary Sheet
SW-846

SDG No.: Q3177

Client: Weston Solutions, Inc.

Sample ID	Client ID		Parameter	Concentration	C	MDL	RDL	Units
Client ID :	**EME-TS12-01**							
Q3177-01	EME-TS12-01	WATER	Di-n-butylphthalate	2.400	J	1.2	5	ug/L
			Total Svoc :	**2.40**				
			Total Concentration:	**2.40**				

QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q3177

Client: Weston Solutions, Inc.

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%) Low	Limits (%) High
PB169880BL	PB169880BL	2-Fluorophenol	150	103	68		23	138
		Phenol-d6	150	105	70		10	134
		Nitrobenzene-d5	100	74.1	74		67	132
		2-Fluorobiphenyl	100	73.6	74		52	132
		2,4,6-Tribromophenol	150	109	73		44	137
		Terphenyl-d14	100	91.7	92		42	152
PB169880BS	PB169880BS	2-Fluorophenol	150	108	72		23	138
		Phenol-d6	150	112	74		10	134
		Nitrobenzene-d5	100	82.5	82		67	132
		2-Fluorobiphenyl	100	78.5	78		52	132
		2,4,6-Tribromophenol	150	109	72		44	137
		Terphenyl-d14	100	96.8	97		42	152
PB169880TB	PB169880TB	2-Fluorophenol	150	109	73		23	138
		Phenol-d6	150	111	74		10	134
		Nitrobenzene-d5	100	82.1	82		67	132
		2-Fluorobiphenyl	100	79.2	79		52	132
		2,4,6-Tribromophenol	150	114	76		44	137
		Terphenyl-d14	100	94.6	95		42	152
Q3177-01	EME-TS12-01	2-Fluorophenol	150	63.5	42		23	138
		Phenol-d6	150	43.7	29		10	134
		Nitrobenzene-d5	100	94.0	94		67	132
		2-Fluorobiphenyl	100	85.6	86		52	132
		2,4,6-Tribromophenol	150	136	90		44	137
		Terphenyl-d14	100	92.7	93		42	152
Q3177-02	EME-TS13-01	2-Fluorophenol	150	61.2	41		23	138
		Phenol-d6	150	42.3	28		10	134
		Nitrobenzene-d5	100	88.5	88		67	132
		2-Fluorobiphenyl	100	84.7	85		52	132
		2,4,6-Tribromophenol	150	136	90		44	137
		Terphenyl-d14	100	99.7	100		42	152
Q3177-03	EME-TS14-02	2-Fluorophenol	150	61.7	41		23	138
		Phenol-d6	150	41.2	27		10	134
		Nitrobenzene-d5	100	94.0	94		67	132
		2-Fluorobiphenyl	100	86.8	87		52	132
		2,4,6-Tribromophenol	150	137	91		44	137
		Terphenyl-d14	100	105	105		42	152
Q3179-02MS	EME-TS14-01MS	2-Fluorophenol	150	60.4	40		23	138
		Phenol-d6	150	41.0	27		10	134
		Nitrobenzene-d5	100	92.4	92		67	132
		2-Fluorobiphenyl	100	85.4	85		52	132
		2,4,6-Tribromophenol	150	129	86		44	137
		Terphenyl-d14	100	109	109		42	152
Q3179-03MSD	EME-TS14-01MSD	2-Fluorophenol	150	61.6	41		23	138
		Phenol-d6	150	41.8	28		10	134
		Nitrobenzene-d5	100	94.9	95		67	132
		2-Fluorobiphenyl	100	86.9	87		52	132
		2,4,6-Tribromophenol	150	130	87		44	137
		Terphenyl-d14	100	112	112		42	152

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3177 **Analytical Method:** SW8270E

Client: Weston Solutions, Inc. **DataFile:** BF143839.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q3179-02MS		**Client Sample ID: EME-TS14-01MS**									
n-Nitrosodimethylamine	50	0	18.9	ug/L	38				10	130	
Pyridine	50	0	19.2	ug/L	38				10	109	
Benzaldehyde	50	0	30.2	ug/L	60				10	137	
Aniline	50	0	26.0	ug/L	52				10	130	
Phenol	50	0	17.2	ug/L	34				10	130	
bis(2-Chloroethyl)ether	50	0	44.9	ug/L	90				29	141	
2-Chlorophenol	50	0	38.4	ug/L	77				23	127	
Benzyl Alcohol	50	0	36.8	ug/L	74				31	94	
2-Methylphenol	50	0	34.4	ug/L	69				60	131	
2,2-oxybis(1-Chloropropane)	50	0	39.0	ug/L	78				36	141	
Acetophenone	50	0	51.8	ug/L	104				31	164	
3+4-Methylphenols	50	0	30.8	ug/L	62				54	136	
N-Nitroso-di-n-propylamine	50	0	48.2	ug/L	96				36	147	
Hexachloroethane	50	0	39.0	ug/L	78				19	146	
Nitrobenzene	50	0	47.3	ug/L	95				62	112	
Isophorone	50	0	50.2	ug/L	100				39	146	
2-Nitrophenol	50	0	52.0	ug/L	104				30	148	
2,4-Dimethylphenol	50	0	46.9	ug/L	94				17	143	
bis(2-Chloroethoxy)methane	50	0	48.0	ug/L	96				39	143	
2,4-Dichlorophenol	50	0	45.5	ug/L	91				22	146	
Benzoic acid	50	0	23.7	ug/L	47				10	101	
Naphthalene	50	0	43.9	ug/L	88				17	157	
4-Chloroaniline	50	0	29.9	ug/L	60				10	95	
Hexachlorobutadiene	50	0	43.5	ug/L	87				52	125	
Caprolactam	50	0	11.8	ug/L	24				10	130	
4-Chloro-3-methylphenol	50	0	45.1	ug/L	90				17	148	
2-Methylnaphthalene	50	0	43.4	ug/L	87				38	146	
Hexachlorocyclopentadiene	100	0	110	ug/L	110				20	153	
2,4,6-Trichlorophenol	50	0	51.1	ug/L	102				78	112	
2,4,5-Trichlorophenol	50	0	49.4	ug/L	99				71	111	
1,1-Biphenyl	50	0	50.2	ug/L	100				38	154	
2-Chloronaphthalene	50	0	45.5	ug/L	91				41	145	
2-Nitroaniline	50	0	60.6	ug/L	121				39	151	
Dimethylphthalate	50	0	51.7	ug/L	103				42	147	
Acenaphthylene	50	0	54.0	ug/L	108				40	141	
2,6-Dinitrotoluene	50	0	67.7	ug/L	135				43	148	
3-Nitroaniline	50	0	41.0	ug/L	82				10	111	
Acenaphthene	50	0	51.2	ug/L	102				37	146	
2,4-Dinitrophenol	100	0	110	ug/L	110				14	167	
4-Nitrophenol	100	0	37.8	ug/L	38				10	130	
Dibenzofuran	50	0	48.7	ug/L	97				41	145	
2,4-Dinitrotoluene	50	0	60.7	ug/L	121				74	137	
Diethylphthalate	50	0	51.9	ug/L	104				41	148	
4-Chlorophenyl-phenylether	50	0	50.9	ug/L	102				38	149	
Fluorene	50	0	50.3	ug/L	101				39	144	
4-Nitroaniline	50	0	59.9	ug/L	120				27	138	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3177 **Analytical Method:** SW8270E

Client: Weston Solutions, Inc. **DataFile:** BF143839.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
4,6-Dinitro-2-methylphenol	50	0	61.8	ug/L	124				32	175	
N-Nitrosodiphenylamine	50	0	48.9	ug/L	98				40	150	
Azobenzene	50	0	50.7	ug/L	101				72	112	
4-Bromophenyl-phenylether	50	0	53.3	ug/L	107				42	151	
Hexachlorobenzene	50	0	54.6	ug/L	109				72	115	
Atrazine	50	0	53.2	ug/L	106				20	162	
Pentachlorophenol	100	0	110	ug/L	110				52	162	
Phenanthrene	50	0	47.5	ug/L	95				40	147	
Anthracene	50	0	48.4	ug/L	97				41	146	
Carbazole	50	0	47.8	ug/L	96				37	154	
Di-n-butylphthalate	50	0	48.4	ug/L	97				40	151	
Fluoranthene	50	0	48.1	ug/L	96				42	146	
Benzidine	100	0	23.0	ug/L	23				10	130	
Pyrene	50	0	58.3	ug/L	117				41	149	
Butylbenzylphthalate	50	0	54.4	ug/L	109				39	155	
3,3-Dichlorobenzidine	50	0	39.4	ug/L	79				10	114	
Benzo(a)anthracene	50	0	51.2	ug/L	102				41	147	
Chrysene	50	0	48.0	ug/L	96				44	144	
bis(2-Ethylhexyl)phthalate	50	0	44.2	ug/L	88				33	160	
Di-n-octyl phthalate	50	0	39.2	ug/L	78				36	158	
Benzo(b)fluoranthene	50	0	55.3	ug/L	111				40	150	
Benzo(k)fluoranthene	50	0	43.5	ug/L	87				40	147	
Benzo(a)pyrene	50	0	52.0	ug/L	104				42	147	
Indeno(1,2,3-cd)pyrene	50	0	52.3	ug/L	105				30	166	
Dibenz(a,h)anthracene	50	0	52.6	ug/L	105				23	172	
Benzo(g,h,i)perylene	50	0	54.6	ug/L	109				27	167	
1,2,4,5-Tetrachlorobenzene	50	0	50.4	ug/L	101				89	102	
1,4-Dioxane	50	0	19.3	ug/L	39				38	130	
2,3,4,6-Tetrachlorophenol	50	0	61.8	ug/L	124	*			91	111	
1-Methylnaphthalene	50	0	46.2	ug/L	92				25	151	

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3177 **Analytical Method:** SW8270E

Client: Weston Solutions, Inc. **DataFile:** BF143840.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
Lab Sample ID: Q3179-03MSD		**Client Sample ID: EME-TS14-01MSD**									
n-Nitrosodimethylamine	50	0	18.8	ug/L	38	0			10	130	20
Pyridine	50	0	19.2	ug/L	38	0			10	109	20
Benzaldehyde	50	0	30.4	ug/L	61	2			10	137	20
Aniline	50	0	27.2	ug/L	54	4			10	130	20
Phenol	50	0	17.5	ug/L	35	3			10	130	20
bis(2-Chloroethyl)ether	50	0	45.6	ug/L	91	1			29	141	20
2-Chlorophenol	50	0	39.1	ug/L	78	1			23	127	20
Benzyl Alcohol	50	0	37.6	ug/L	75	1			31	94	20
2-Methylphenol	50	0	34.7	ug/L	69	0			60	131	20
2,2-oxybis(1-Chloropropane)	50	0	39.6	ug/L	79	1			36	141	20
Acetophenone	50	0	53.2	ug/L	106	2			31	164	20
3+4-Methylphenols	50	0	31.0	ug/L	62	0			54	136	20
N-Nitroso-di-n-propylamine	50	0	49.6	ug/L	99	3			36	147	20
Hexachloroethane	50	0	39.7	ug/L	79	1			19	146	20
Nitrobenzene	50	0	48.4	ug/L	97	2			62	112	20
Isophorone	50	0	51.0	ug/L	102	2			39	146	20
2-Nitrophenol	50	0	54.2	ug/L	108	4			30	148	20
2,4-Dimethylphenol	50	0	48.2	ug/L	96	2			17	143	20
bis(2-Chloroethoxy)methane	50	0	49.1	ug/L	98	2			39	143	20
2,4-Dichlorophenol	50	0	46.7	ug/L	93	2			22	146	20
Benzoic acid	50	0	24.1	ug/L	48	2			10	101	20
Naphthalene	50	0	45.1	ug/L	90	2			17	157	20
4-Chloroaniline	50	0	32.5	ug/L	65	8			10	95	20
Hexachlorobutadiene	50	0	44.7	ug/L	89	2			52	125	20
Caprolactam	50	0	11.9	ug/L	24	0			10	130	20
4-Chloro-3-methylphenol	50	0	45.9	ug/L	92	2			17	148	20
2-Methylnaphthalene	50	0	44.5	ug/L	89	2			38	146	20
Hexachlorocyclopentadiene	100	0	110	ug/L	110	0			20	153	20
2,4,6-Trichlorophenol	50	0	51.7	ug/L	103	1			78	112	20
2,4,5-Trichlorophenol	50	0	50.0	ug/L	100	1			71	111	20
1,1-Biphenyl	50	0	50.2	ug/L	100	0			38	154	20
2-Chloronaphthalene	50	0	45.9	ug/L	92	1			41	145	20
2-Nitroaniline	50	0	62.0	ug/L	124	2			39	151	20
Dimethylphthalate	50	0	52.1	ug/L	104	1			42	147	20
Acenaphthylene	50	0	54.5	ug/L	109	1			40	141	20
2,6-Dinitrotoluene	50	0	69.7	ug/L	139	3			43	148	20
3-Nitroaniline	50	0	43.1	ug/L	86	5			10	111	20
Acenaphthene	50	0	52.0	ug/L	104	2			37	146	20
2,4-Dinitrophenol	100	0	110	ug/L	110	0			14	167	20
4-Nitrophenol	100	0	38.3	ug/L	38	0			10	130	20
Dibenzofuran	50	0	49.7	ug/L	99	2			41	145	20
2,4-Dinitrotoluene	50	0	61.2	ug/L	122	1			74	137	20
Diethylphthalate	50	0	52.2	ug/L	104	0			41	148	20
4-Chlorophenyl-phenylether	50	0	51.7	ug/L	103	1			38	149	20
Fluorene	50	0	51.0	ug/L	102	1			39	144	20
4-Nitroaniline	50	0	59.7	ug/L	119	1			27	138	20

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Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q3177 **Analytical Method:** SW8270E

Client: Weston Solutions, Inc. **DataFile:** BF143840.D

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Limits Low	Limits High	RPD
4,6-Dinitro-2-methylphenol	50	0	64.7	ug/L	129		4		32	175	20
N-Nitrosodiphenylamine	50	0	49.8	ug/L	100		2		40	150	20
Azobenzene	50	0	51.5	ug/L	103		2		72	112	20
4-Bromophenyl-phenylether	50	0	54.5	ug/L	109		2		42	151	20
Hexachlorobenzene	50	0	56.4	ug/L	113		4		72	115	20
Atrazine	50	0	55.0	ug/L	110		4		20	162	20
Pentachlorophenol	100	0	120	ug/L	120		9		52	162	20
Phenanthrene	50	0	49.0	ug/L	98		3		40	147	20
Anthracene	50	0	49.7	ug/L	99		2		41	146	20
Carbazole	50	0	49.4	ug/L	99		3		37	154	20
Di-n-butylphthalate	50	0	50.2	ug/L	100		3		40	151	20
Fluoranthene	50	0	49.9	ug/L	100		4		42	146	20
Benzidine	100	0	25.5	ug/L	26		12		10	130	20
Pyrene	50	0	60.6	ug/L	121		3		41	149	20
Butylbenzylphthalate	50	0	56.6	ug/L	113		4		39	155	20
3,3-Dichlorobenzidine	50	0	41.5	ug/L	83		5		10	114	20
Benzo(a)anthracene	50	0	50.3	ug/L	101		1		41	147	20
Chrysene	50	0	52.6	ug/L	105		9		44	144	20
bis(2-Ethylhexyl)phthalate	50	0	45.3	ug/L	91		3		33	160	20
Di-n-octyl phthalate	50	0	40.0	ug/L	80		3		36	158	20
Benzo(b)fluoranthene	50	0	51.2	ug/L	102		8		40	150	20
Benzo(k)fluoranthene	50	0	50.8	ug/L	102		16		40	147	20
Benzo(a)pyrene	50	0	54.0	ug/L	108		4		42	147	20
Indeno(1,2,3-cd)pyrene	50	0	54.7	ug/L	109		4		30	166	20
Dibenz(a,h)anthracene	50	0	54.9	ug/L	110		5		23	172	20
Benzo(g,h,i)perylene	50	0	57.1	ug/L	114		4		27	167	20
1,2,4,5-Tetrachlorobenzene	50	0	50.8	ug/L	102		1		89	102	20
1,4-Dioxane	50	0	19.4	ug/L	39		0		38	130	20
2,3,4,6-Tetrachlorophenol	50	0	63.6	ug/L	127	*	2		91	111	20
1-Methylnaphthalene	50	0	47.7	ug/L	95		3		25	151	20

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3177 **Analytical Method:** 8270E

Client: Weston Solutions, Inc. **DataFile:** BF143832.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	RPD
PB169880BS	n-Nitrosodimethylamine	50	38.2	ug/L	76				55	108	
	Pyridine	50	36.6	ug/L	73				29	97	
	Benzaldehyde	50	26.7	ug/L	53				10	162	
	Aniline	50	34.9	ug/L	70				10	130	
	Phenol	50	42.5	ug/L	85				66	118	
	bis(2-Chloroethyl)ether	50	41.6	ug/L	83				62	103	
	2-Chlorophenol	50	42.4	ug/L	85				70	117	
	Benzyl Alcohol	50	46.8	ug/L	94		*		36	93	
	2-Methylphenol	50	44.0	ug/L	88				69	109	
	2,2-oxybis(1-Chloropropane)	50	36.5	ug/L	73				65	100	
	Acetophenone	50	46.3	ug/L	93				60	104	
	3+4-Methylphenols	50	42.1	ug/L	84				67	106	
	N-Nitroso-di-n-propylamine	50	42.9	ug/L	86				57	107	
	Hexachloroethane	50	40.9	ug/L	82				76	118	
	Nitrobenzene	50	43.4	ug/L	87				58	106	
	Isophorone	50	45.7	ug/L	91				61	102	
	2-Nitrophenol	50	49.7	ug/L	99				70	115	
	2,4-Dimethylphenol	50	47.6	ug/L	95				42	142	
	bis(2-Chloroethoxy)methane	50	43.1	ug/L	86				58	109	
	2,4-Dichlorophenol	50	44.8	ug/L	90				66	115	
	Benzoic acid	50	62.8	ug/L	126		*		10	125	
	Naphthalene	50	41.7	ug/L	83				64	107	
	4-Chloroaniline	50	26.1	ug/L	52				10	85	
	Hexachlorobutadiene	50	45.3	ug/L	91				69	101	
	Caprolactam	50	52.3	ug/L	105				58	128	
	4-Chloro-3-methylphenol	50	46.2	ug/L	92				65	114	
	2-Methylnaphthalene	50	40.2	ug/L	80				64	107	
	Hexachlorocyclopentadiene	100	110	ug/L	110				36	160	
	2,4,6-Trichlorophenol	50	46.6	ug/L	93				61	110	
	2,4,5-Trichlorophenol	50	46.3	ug/L	93				70	106	
	1,1-Biphenyl	50	45.1	ug/L	90				72	98	
	2-Chloronaphthalene	50	41.0	ug/L	82				59	106	
	2-Nitroaniline	50	50.2	ug/L	100				73	114	
	Dimethylphthalate	50	45.2	ug/L	90				64	103	
	Acenaphthylene	50	47.5	ug/L	95				79	103	
	2,6-Dinitrotoluene	50	58.2	ug/L	116		*		64	110	
	3-Nitroaniline	50	35.5	ug/L	71				28	100	
	Acenaphthene	50	44.5	ug/L	89				59	113	
	2,4-Dinitrophenol	100	97.5	ug/L	98				36	166	
	4-Nitrophenol	100	91.4	ug/L	91				45	147	
	Dibenzofuran	50	42.8	ug/L	86				65	106	
	2,4-Dinitrotoluene	50	51.2	ug/L	102				60	115	
	Diethylphthalate	50	45.3	ug/L	91				63	105	
	4-Chlorophenyl-phenylether	50	45.0	ug/L	90				61	104	

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Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q3177 **Analytical Method:** 8270E

Client: Weston Solutions, Inc. **DataFile:** BF143832.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD Qual	Limits Low	Limits High	Limits RPD
PB169880BS	Fluorene	50	43.7	ug/L	87				64	107	
	4-Nitroaniline	50	49.7	ug/L	99				55	125	
	4,6-Dinitro-2-methylphenol	50	56.3	ug/L	113				62	132	
	N-Nitrosodiphenylamine	50	45.0	ug/L	90				61	109	
	Azobenzene	50	43.2	ug/L	86				59	106	
	4-Bromophenyl-phenylether	50	49.6	ug/L	99				73	103	
	Hexachlorobenzene	50	50.1	ug/L	100				73	106	
	Atrazine	50	49.1	ug/L	98				76	120	
	Pentachlorophenol	100	100	ug/L	100				47	114	
	Phenanthrene	50	42.9	ug/L	86				62	109	
	Anthracene	50	43.7	ug/L	87				65	110	
	Carbazole	50	43.2	ug/L	86				62	106	
	Di-n-butylphthalate	50	44.5	ug/L	89				64	106	
	Fluoranthene	50	43.0	ug/L	86				64	110	
	Benzidine	100	32.3	ug/L	32				10	94	
	Pyrene	50	49.7	ug/L	99				71	103	
	Butylbenzylphthalate	50	50.1	ug/L	100				61	105	
	3,3-Dichlorobenzidine	50	31.6	ug/L	63				43	108	
	Benzo(a)anthracene	50	45.3	ug/L	91				62	107	
	Chrysene	50	43.5	ug/L	87				61	108	
	bis(2-Ethylhexyl)phthalate	50	43.3	ug/L	87				59	110	
	Di-n-octyl phthalate	50	40.2	ug/L	80				52	139	
	Benzo(b)fluoranthene	50	50.7	ug/L	101				77	113	
	Benzo(k)fluoranthene	50	39.2	ug/L	78				77	105	
	Benzo(a)pyrene	50	47.0	ug/L	94				72	131	
	Indeno(1,2,3-cd)pyrene	50	48.5	ug/L	97				72	105	
	Dibenz(a,h)anthracene	50	48.5	ug/L	97				78	115	
	Benzo(g,h,i)perylene	50	50.4	ug/L	101				75	118	
	1,2,4,5-Tetrachlorobenzene	50	46.1	ug/L	92				72	101	
	1,4-Dioxane	50	35.2	ug/L	70				38	125	
	2,3,4,6-Tetrachlorophenol	50	54.4	ug/L	109				63	116	
	1-Methylnaphthalene	50	42.6	ug/L	85				51	114	

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4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID: PB169880BL

Lab Name: Alliance | Contract: ROYF02

Lab Code: ACE | SDG NO.: Q3177

Lab File ID: BF143831.D | Lab Sample ID: PB169880BL

Instrument ID: BNA_F | Date Extracted: 09/29/2025

Matrix: (soil/water) Water | Date Analyzed: 09/30/2025

Level: (low/med) LOW | Time Analyzed: 14:05

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
PB169880BS	PB169880BS	BF143832.D	09/30/2025
PB169880TB	PB169880TB	BF143833.D	09/30/2025
EME-TS12-01	Q3177-01	BF143835.D	09/30/2025
EME-TS13-01	Q3177-02	BF143836.D	09/30/2025
EME-TS14-02	Q3177-03	BF143837.D	09/30/2025
EME-TS14-01MS	Q3179-02MS	BF143839.D	09/30/2025
EME-TS14-01MSD	Q3179-03MSD	BF143840.D	09/30/2025

COMMENTS:

Raw Data: **BF143790.D**

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG NO.: Q3177

Lab File ID: BF143790.D DFTPP Injection Date: 09/23/2025

Instrument ID: BNA_F DFTPP Injection Time: 09:31

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.5 (1.6) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	81.4
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	18.6 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF143791.D	09/23/2025	10:28
SSTDICC005	SSTDICC005	BF143792.D	09/23/2025	10:58
SSTDICC010	SSTDICC010	BF143793.D	09/23/2025	11:57
SSTDICC020	SSTDICC020	BF143794.D	09/23/2025	12:27
SSTDICCC040	SSTDICCC040	BF143795.D	09/23/2025	13:59
SSTDICC050	SSTDICC050	BF143796.D	09/23/2025	14:28
SSTDICC060	SSTDICC060	BF143797.D	09/23/2025	14:58
SSTDICC080	SSTDICC080	BF143798.D	09/23/2025	15:27

Raw Data: **BF143829.D**

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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK

DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG NO.: Q3177

Lab File ID: BF143829.D DFTPP Injection Date: 09/30/2025

Instrument ID: BNA_F DFTPP Injection Time: 12:36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
68	Less than 2.0% of mass 69	0.4 (1.5) 1
69	Mass 69 relative abundance	100
70	Less than 2.0% of mass 69	0.2 (0.6) 1
197	Less than 2.0% of mass 198	0.4
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.5
365	Greater than 1% of mass 198	3
441	Present, but less than mass 443	79.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	19.6 (19.6) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF143830.D	09/30/2025	13:36
PB169880BL	PB169880BL	BF143831.D	09/30/2025	14:05
PB169880BS	PB169880BS	BF143832.D	09/30/2025	14:34
PB169880TB	PB169880TB	BF143833.D	09/30/2025	15:04
EME-TS12-01	Q3177-01	BF143835.D	09/30/2025	16:07
EME-TS13-01	Q3177-02	BF143836.D	09/30/2025	16:37
EME-TS14-02	Q3177-03	BF143837.D	09/30/2025	17:06
EME-TS14-01MS	Q3179-02MS	BF143839.D	09/30/2025	18:05
EME-TS14-01MSD	Q3179-03MSD	BF143840.D	09/30/2025	18:35

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8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3177

Client ID : SSTDCCC040 Date Analyzed: 09/30/2025

Lab File ID: BF143830.D Time Analyzed: 13:36

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS1 (DCB) AREA #	RT #	IS2 (NPT) AREA #	RT #	IS3 (ANT) AREA #	RT #
	12 HOUR STD	130920	6.886	478225	8.17	247405	9.93
	UPPER LIMIT	261840	7.386	956450	8.669	494810	10.427
	LOWER LIMIT	65460	6.386	239113	7.669	123703	9.427
	EPA SAMPLE NO.						
01	PB169880BL	156353	6.89	604209	8.17	316969	9.92
02	PB169880BS	176669	6.89	656314	8.17	351165	9.93
03	PB169880TB	170876	6.89	648255	8.16	342269	9.92
04	EME-TS12-01	147604	6.88	574615	8.16	323392	9.92
05	EME-TS13-01	140037	6.88	541403	8.16	299388	9.92
06	EME-TS14-02	142531	6.88	544465	8.16	300805	9.92
07	EME-TS14-01MS	150523	6.89	576047	8.17	308449	9.93
08	EME-TS14-01MSD	143255	6.89	544706	8.17	295782	9.93

IS1 (DCB) = 1,4-Dichlorobenzene-d4
IS2 (NPT) = Naphthalene-d8
IS3 (ANT) = Acenaphthene-d10

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

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

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8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE SDG NO.: Q3177

Client ID: SSTDCCC040 Date Analyzed: 09/30/2025

Lab File ID: BF143830.D Time Analyzed: 13:36

Instrument ID: BNA_F GC Column: DB-UI ID: 0.18 (mm)

		IS4 (PHN) AREA #	RT #	IS5 (CRY) AREA #	RT #	IS6 (PRY) AREA #	RT #
	12 HOUR STD	381551	11.416	372937	14.057	533890	15.539
	UPPER LIMIT	763102	11.916	745874	14.557	1067780	16.039
	LOWER LIMIT	190776	10.916	186469	13.557	266945	15.039
	EPA SAMPLE NO.						
01	PB169880BL	515687	11.41	433966	14.06	601939	15.54
02	PB169880BS	557066	11.42	507394	14.06	705082	15.54
03	PB169880TB	552976	11.41	479351	14.05	680290	15.53
04	EME-TS12-01	592553	11.41	701213	14.06	697844	15.53
05	EME-TS13-01	527999	11.41	554361	14.05	552796	15.53
06	EME-TS14-02	522676	11.41	517798	14.05	569467	15.53
07	EME-TS14-01MS	524531	11.42	454958	14.06	661650	15.54
08	EME-TS14-01MSD	495559	11.42	427552	14.06	608800	15.53

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

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

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

SAMPLE DATA

Raw Data: **BF143833.D**

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Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/29/25
Project:	RFP 916	Date Received:	09/29/25
Client Sample ID:	PB169880TB	SDG No.:	Q3177
Lab Sample ID:	PB169880TB	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143833.D	1	09/29/25 08:42	09/30/25 15:04	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
62-75-9	n-Nitrosodimethylamine	0.86	U	0.86	10.0	ug/L
110-86-1	Pyridine	1.30	U	1.30	5.00	ug/L
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
62-53-3	Aniline	1.50	U	1.50	5.00	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
100-51-6	Benzyl Alcohol	1.60	UQ	1.60	10.0	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
65-85-0	Benzoic acid	4.20	UQ	4.20	10.0	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	U	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L

Raw Data: **BF143833.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/29/25
Project:	RFP 916	Date Received:	09/29/25
Client Sample ID:	PB169880TB	SDG No.:	Q3177
Lab Sample ID:	PB169880TB	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143833.D	1	09/29/25 08:42	09/30/25 15:04	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	UQ	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
103-33-3	Azobenzene	0.81	U	0.81	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
92-87-5	Benzidine	4.30	U	4.30	10.0	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L

Raw Data: **BF143833.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/29/25
Project:	RFP 916	Date Received:	09/29/25
Client Sample ID:	PB169880TB	SDG No.:	Q3177
Lab Sample ID:	PB169880TB	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143833.D	1	09/29/25 08:42	09/30/25 15:04	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
85-68-7	Butylbenzylphthalate	1.90	U	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
90-12-0	1-Methylnaphthalene	0.66	U	0.66	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	109		23 - 138	73%	SPK: 150
13127-88-3	Phenol-d6	111		10 - 134	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.1		67 - 132	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	79.2		52 - 132	79%	SPK: 100
118-79-6	2,4,6-Tribromophenol	114		44 - 137	76%	SPK: 150
1718-51-0	Terphenyl-d14	94.6		42 - 152	95%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	171000	6.887			
1146-65-2	Naphthalene-d8	648000	8.163			
15067-26-2	Acenaphthene-d10	342000	9.922			
1517-22-2	Phenanthrene-d10	553000	11.41			
1719-03-5	Chrysene-d12	479000	14.051			
1520-96-3	Perylene-d12	680000	15.533			

Raw Data: **BF143833.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/29/25
Project:	RFP 916	Date Received:	09/29/25
Client Sample ID:	PB169880TB	SDG No.:	Q3177
Lab Sample ID:	PB169880TB	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143833.D	1	09/29/25 08:42	09/30/25 15:04	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143833.D
Acq On : 30 Sep 2025 15:04
Operator : RC/JU
Sample : PB169880TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB169880TB

Quant Time: Sep 30 15:28:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

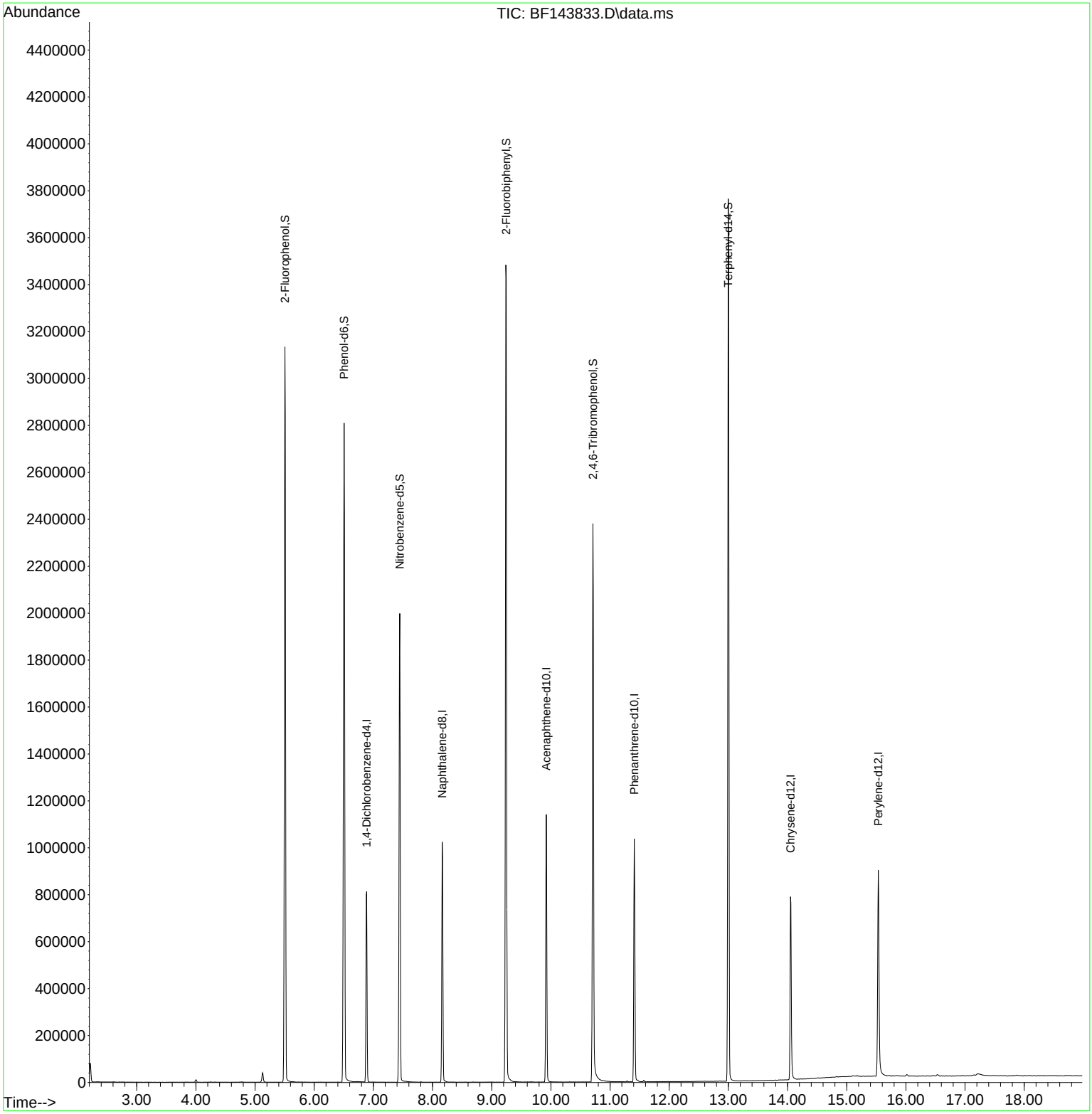
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	170876	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	648255	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	342269	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	552976	20.000	ng	0.00
76) Chrysene-d12	14.051	240	479351	20.000	ng	-0.01
86) Perylene-d12	15.533	264	680290	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	1144441	108.814	ng	0.00
7) Phenol-d6	6.504	99	1354312	111.446	ng	0.00
23) Nitrobenzene-d5	7.445	82	869480	82.101	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	577676	113.989	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1738189	79.249	ng	0.00
79) Terphenyl-d14	12.998	244	2229752	94.602	ng	0.00
Target Compounds						Qvalue

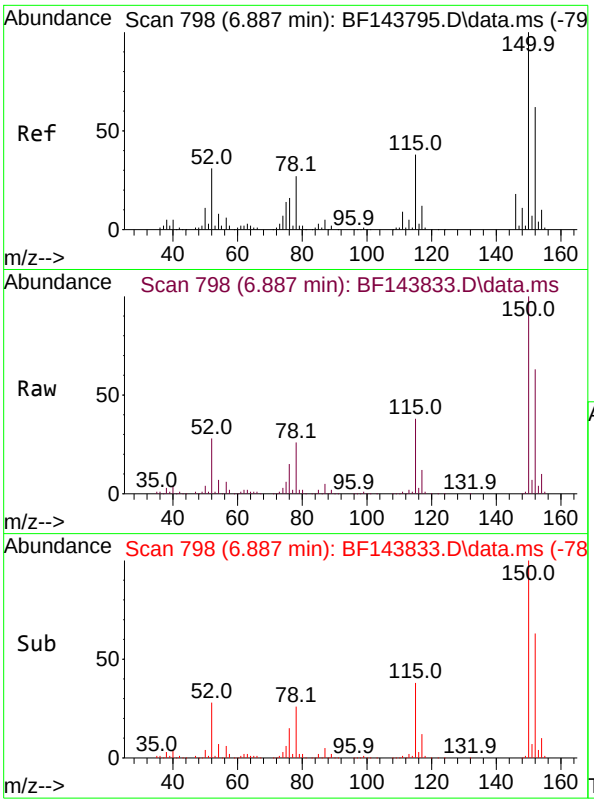
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143833.D
Acq On : 30 Sep 2025 15:04
Operator : RC/JU
Sample : PB169880TB
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB169880TB

Quant Time: Sep 30 15:28:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration



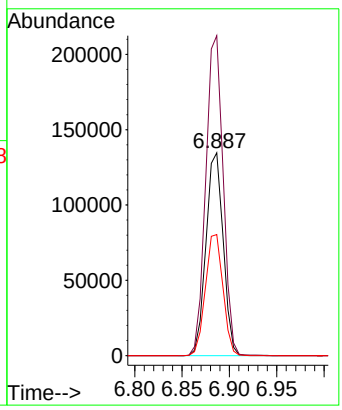


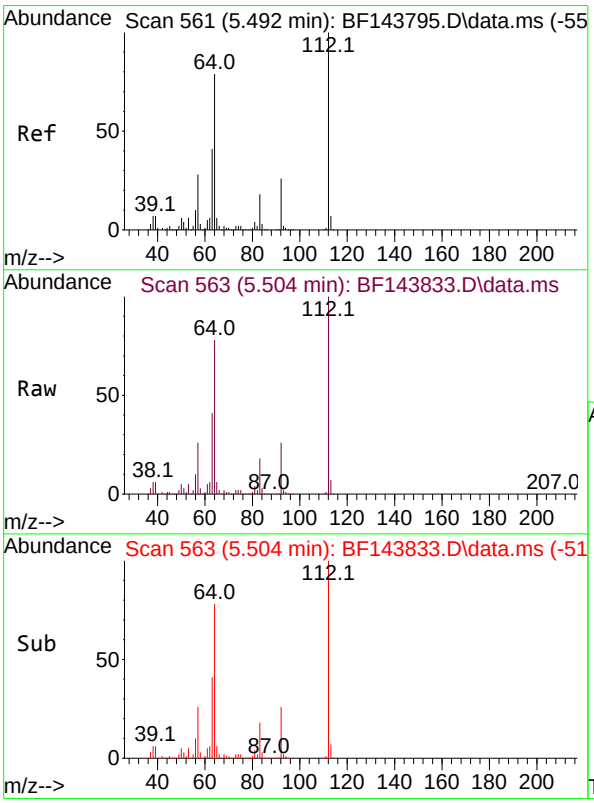
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143833.D
Acq: 30 Sep 2025 15:04

Instrument :
BNA_F
ClientSampleId :
PB169880TB

Tgt Ion:152 Resp: 170876

Ion	Ratio	Lower	Upper
152	100		
150	157.8	129.6	194.4
115	59.7	49.0	73.4

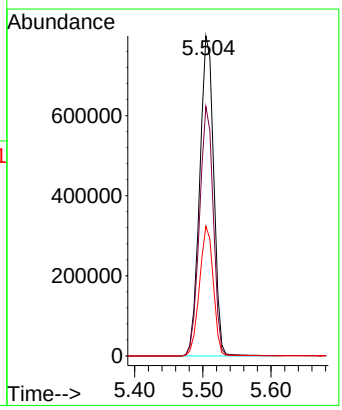


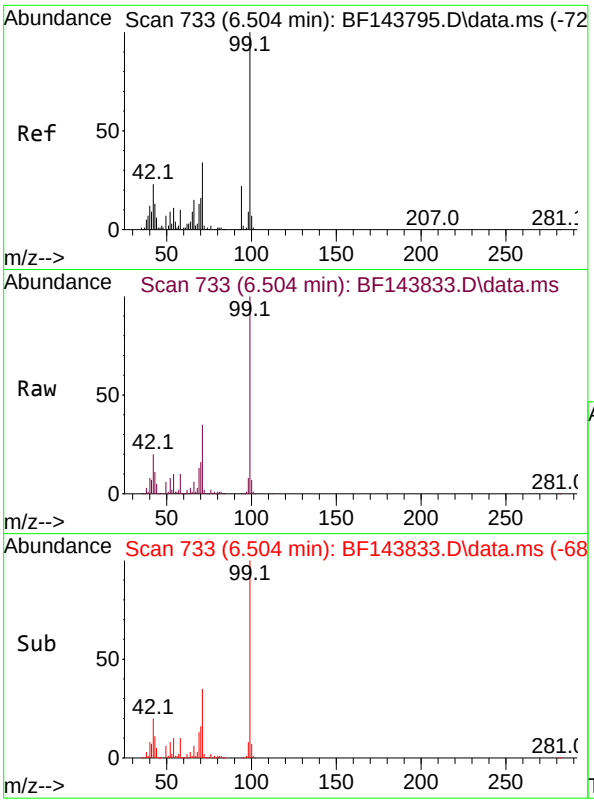


#5
2-Fluorophenol
Concen: 108.814 ng
RT: 5.504 min Scan# 563
Delta R.T. 0.006 min
Lab File: BF143833.D
Acq: 30 Sep 2025 15:04

Tgt Ion:112 Resp: 1144441

Ion	Ratio	Lower	Upper
112	100		
64	77.9	63.0	94.4
63	40.5	32.6	49.0



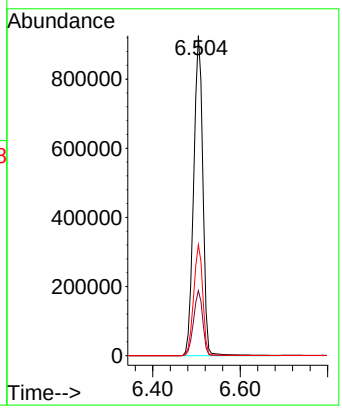


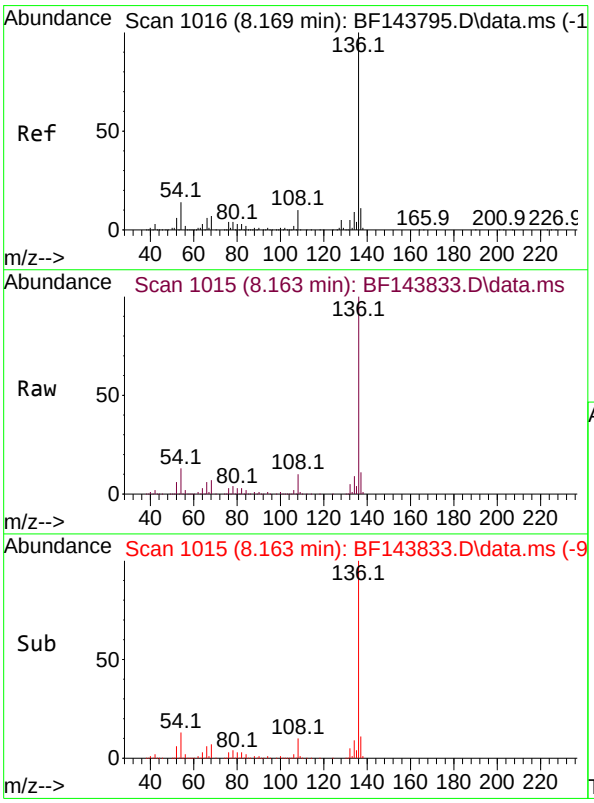
#7
Phenol-d6
Concen: 111.446 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143833.D
Acq: 30 Sep 2025 15:04

Instrument :
BNA_F
ClientSampleId :
PB169880TB

Tgt Ion: 99 Resp: 1354312

Ion	Ratio	Lower	Upper
99	100		
42	20.3	18.6	28.0
71	34.6	27.0	40.4

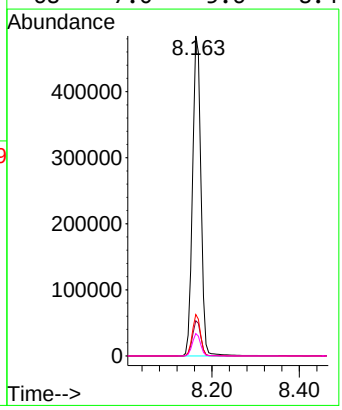


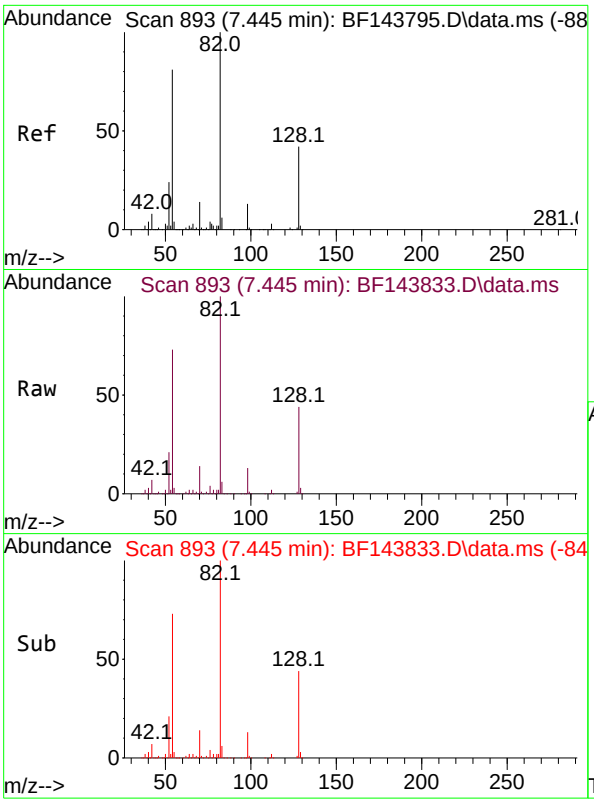


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143833.D
Acq: 30 Sep 2025 15:04

Tgt Ion:136 Resp: 648255

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	12.9	11.2	16.8
68	7.0	5.6	8.4



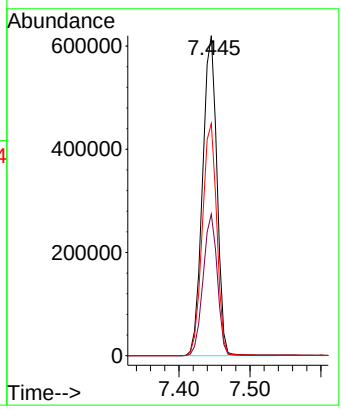


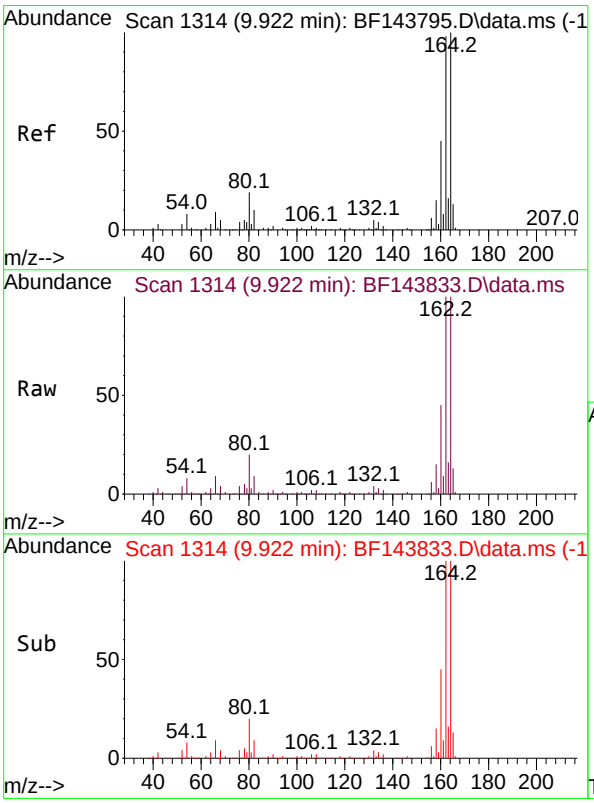
#23
Nitrobenzene-d5
Concen: 82.101 ng
RT: 7.445 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF143833.D
Acq: 30 Sep 2025 15:04

Instrument :
BNA_F
ClientSampleId :
PB169880TB

Tgt Ion: 82 Resp: 869480

Ion	Ratio	Lower	Upper
82	100		
128	44.2	33.3	49.9
54	72.6	64.2	96.4

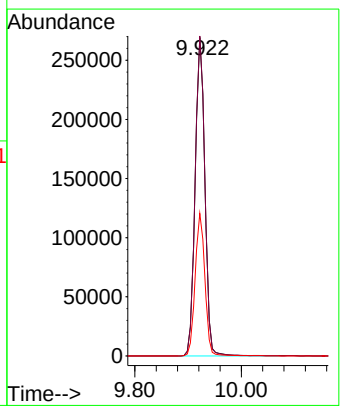


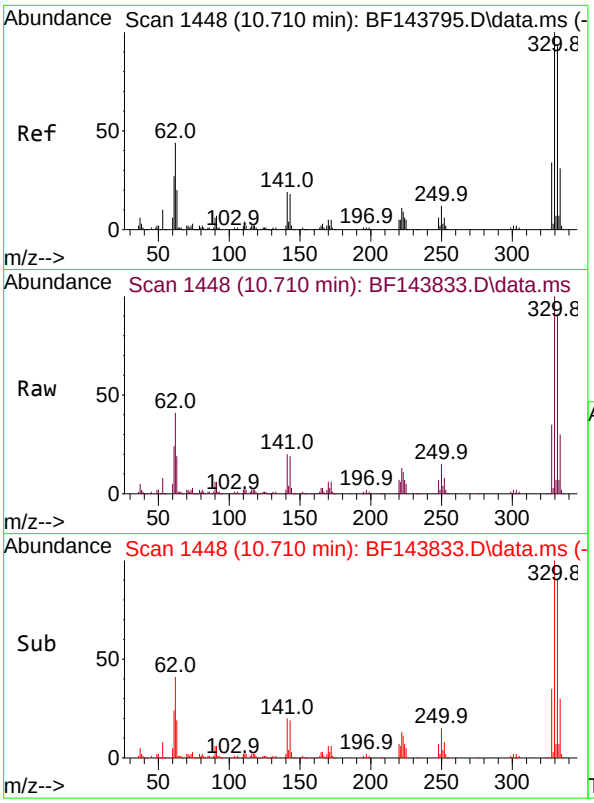


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF143833.D
Acq: 30 Sep 2025 15:04

Tgt Ion:164 Resp: 342269

Ion	Ratio	Lower	Upper
164	100		
162	100.5	78.8	118.2
160	44.7	35.8	53.6



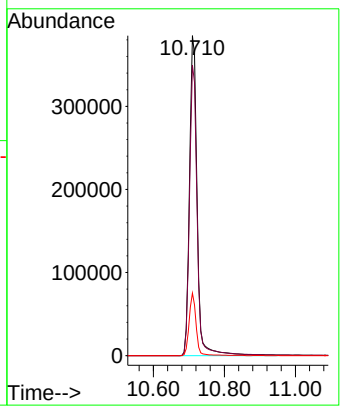


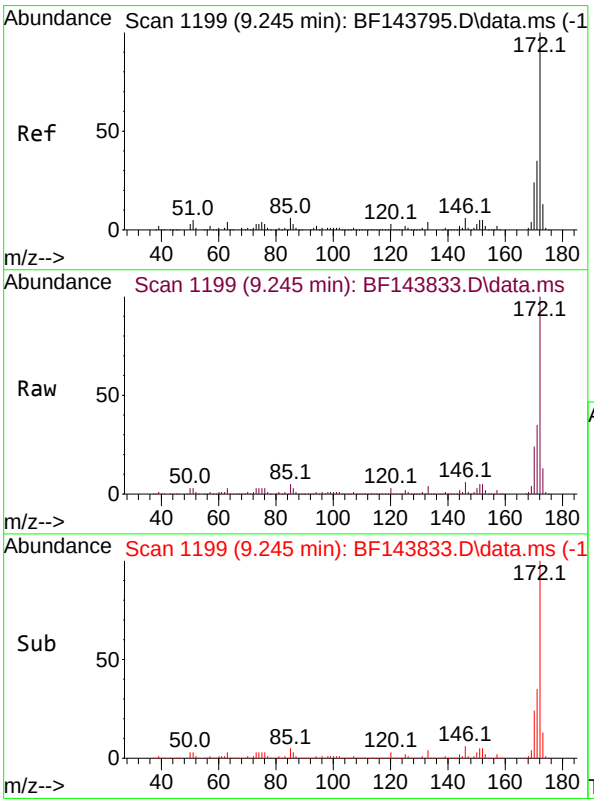
#42
2,4,6-Tribromophenol
Concen: 113.989 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143833.D
Acq: 30 Sep 2025 15:04

Instrument :
BNA_F
ClientSampleId :
PB169880TB

Tgt Ion:330 Resp: 577676

Ion	Ratio	Lower	Upper
330	100		
332	92.1	74.7	112.1
141	17.8	14.3	21.5

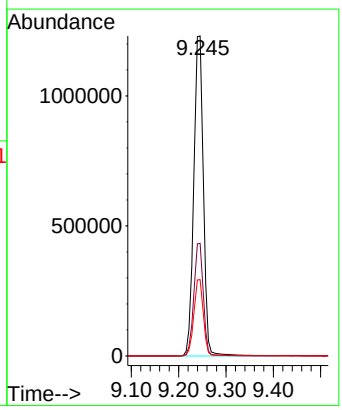


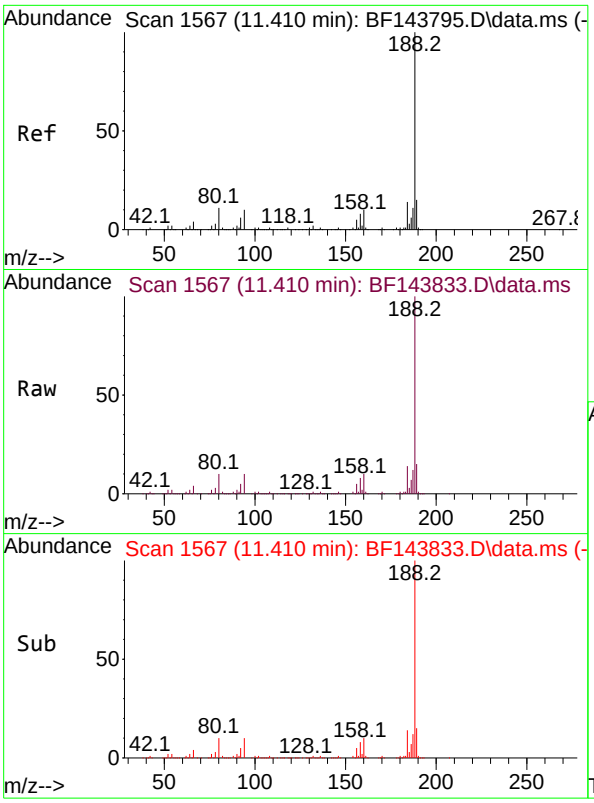


#45
2-Fluorobiphenyl
Concen: 79.249 ng
RT: 9.245 min Scan# 1199
Delta R.T. 0.000 min
Lab File: BF143833.D
Acq: 30 Sep 2025 15:04

Tgt Ion:172 Resp: 1738189

Ion	Ratio	Lower	Upper
172	100		
171	35.2	27.9	41.9
170	23.8	19.1	28.7



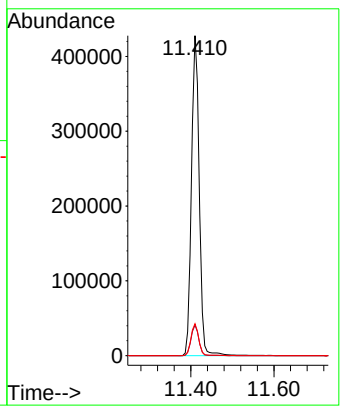


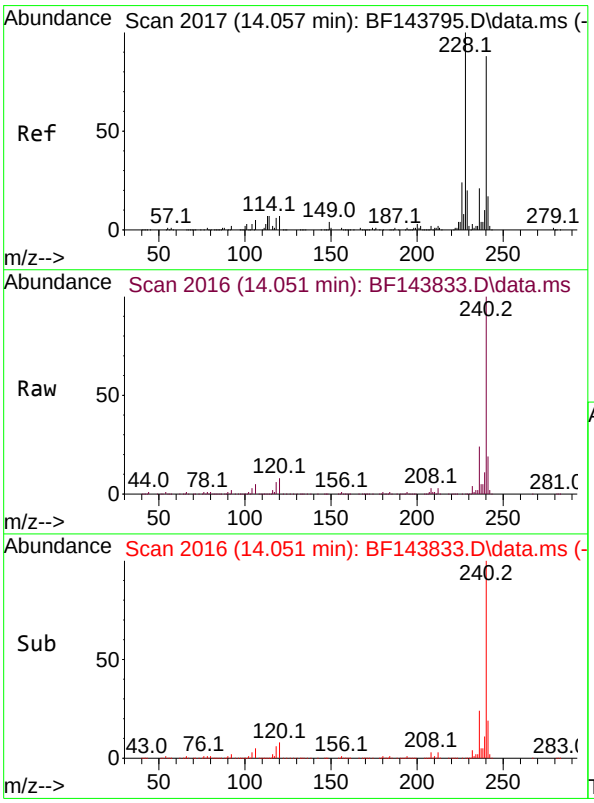
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143833.D
Acq: 30 Sep 2025 15:04

Instrument :
BNA_F
ClientSampleId :
PB169880TB

Tgt Ion:188 Resp: 552976

Ion	Ratio	Lower	Upper
188	100		
94	9.5	8.2	12.2
80	10.0	8.6	12.8

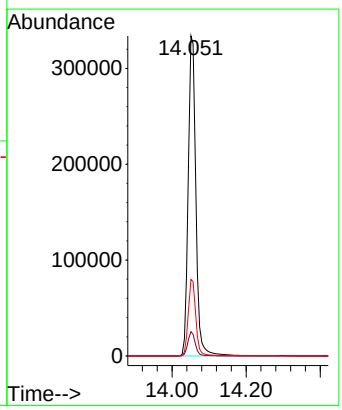


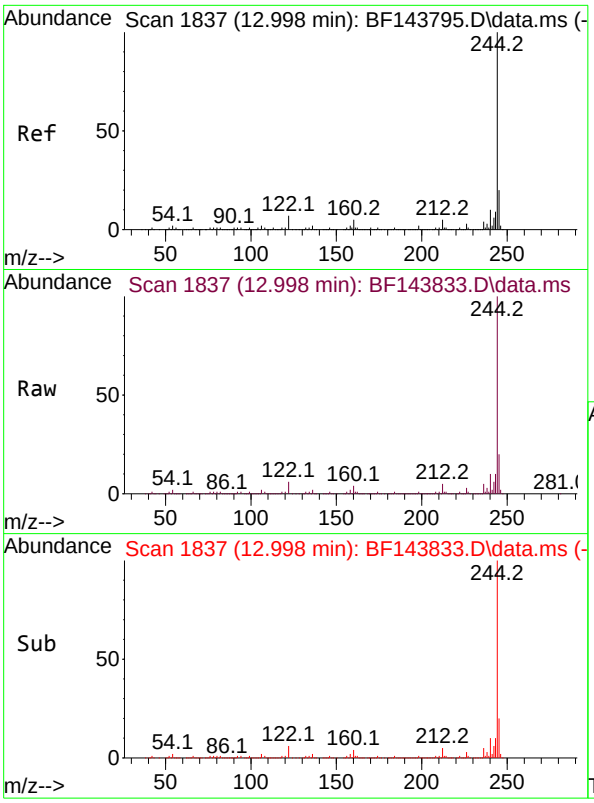


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF143833.D
Acq: 30 Sep 2025 15:04

Tgt Ion:240 Resp: 479351

Ion	Ratio	Lower	Upper
240	100		
120	7.6	6.2	9.4
236	23.9	19.4	29.2



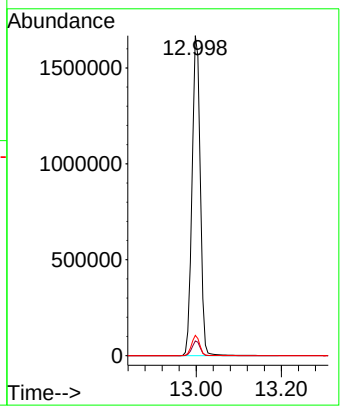


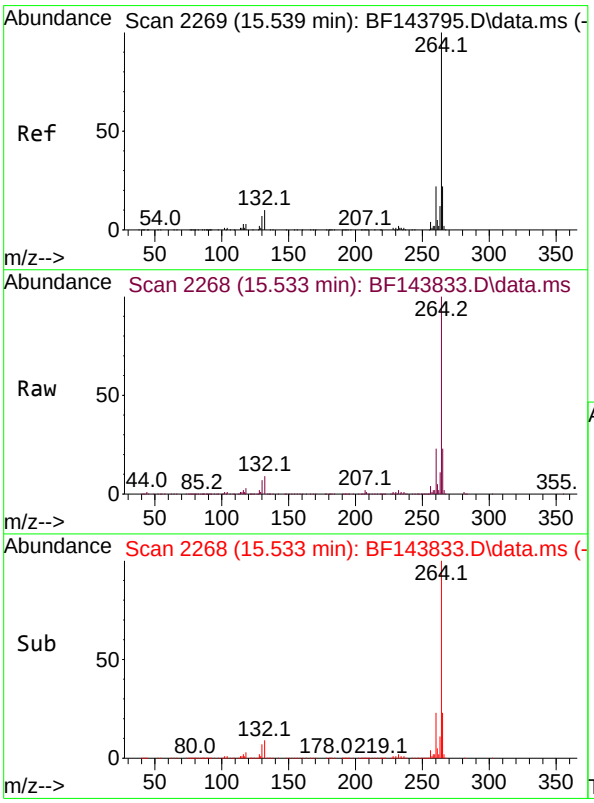
#79
Terphenyl-d14
Concen: 94.602 ng
RT: 12.998 min Scan# 18
Delta R.T. -0.006 min
Lab File: BF143833.D
Acq: 30 Sep 2025 15:04

Instrument :
BNA_F
ClientSampleId :
PB169880TB

Tgt Ion:244 Resp: 2229752

Ion	Ratio	Lower	Upper
244	100		
212	4.6	3.9	5.9
122	6.3	5.6	8.4

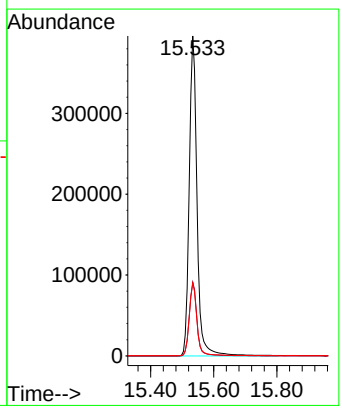




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143833.D
Acq: 30 Sep 2025 15:04

Tgt Ion:264 Resp: 680290

Ion	Ratio	Lower	Upper
264	100		
260	23.0	17.9	26.9
265	22.7	17.7	26.5



Raw Data: **BF143835.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS12-01	SDG No.:	Q3177
Lab Sample ID:	Q3177-01	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143835.D	1	09/29/25 08:42	09/30/25 16:07	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
62-75-9	n-Nitrosodimethylamine	0.86	U	0.86	10.0	ug/L
110-86-1	Pyridine	1.30	U	1.30	5.00	ug/L
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
62-53-3	Aniline	1.50	U	1.50	5.00	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
100-51-6	Benzyl Alcohol	1.60	UQ	1.60	10.0	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
65-85-0	Benzoic acid	4.20	UQ	4.20	10.0	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	U	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L

Raw Data: **BF143835.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS12-01	SDG No.:	Q3177
Lab Sample ID:	Q3177-01	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143835.D	1	09/29/25 08:42	09/30/25 16:07	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	UQ	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
103-33-3	Azobenzene	0.81	U	0.81	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	2.40	J	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
92-87-5	Benzidine	4.30	U	4.30	10.0	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L

Raw Data: **BF143835.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS12-01	SDG No.:	Q3177
Lab Sample ID:	Q3177-01	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143835.D	1	09/29/25 08:42	09/30/25 16:07	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
85-68-7	Butylbenzylphthalate	1.90	U	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
90-12-0	1-Methylnaphthalene	0.66	U	0.66	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	63.5		23 - 138	42%	SPK: 150
13127-88-3	Phenol-d6	43.7		10 - 134	29%	SPK: 150
4165-60-0	Nitrobenzene-d5	94.0		67 - 132	94%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.6		52 - 132	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	136		44 - 137	90%	SPK: 150
1718-51-0	Terphenyl-d14	92.7		42 - 152	93%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	148000	6.881			
1146-65-2	Naphthalene-d8	575000	8.163			
15067-26-2	Acenaphthene-d10	323000	9.922			
1517-22-2	Phenanthrene-d10	593000	11.41			
1719-03-5	Chrysene-d12	701000	14.057			
1520-96-3	Perylene-d12	698000	15.533			

Raw Data: **BF143835.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS12-01	SDG No.:	Q3177
Lab Sample ID:	Q3177-01	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143835.D	1	09/29/25 08:42	09/30/25 16:07	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143835.D
Acq On : 30 Sep 2025 16:07
Operator : RC/JU
Sample : Q3177-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EME-TS12-01

Quant Time: Sep 30 16:28:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

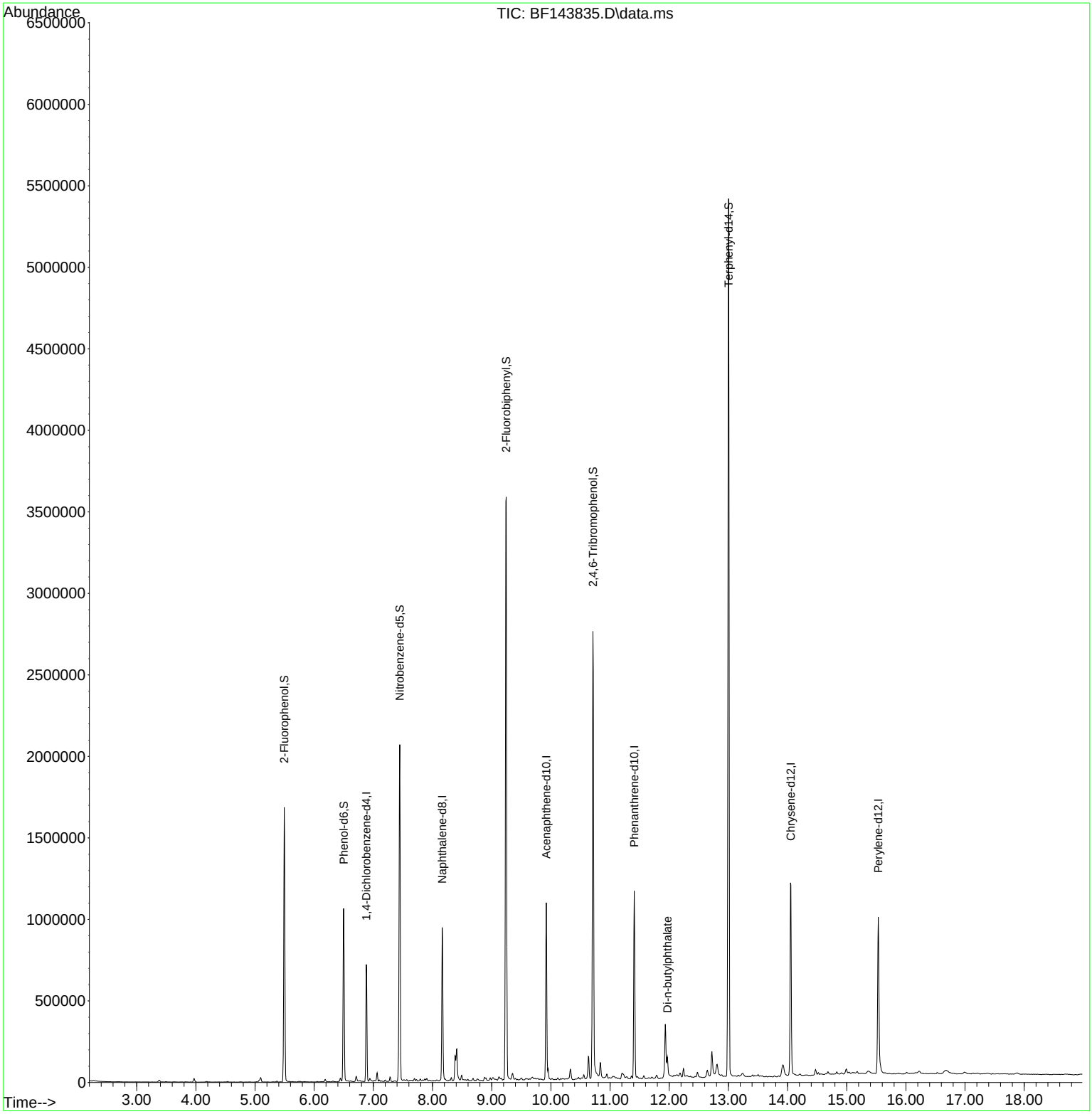
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	147604	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	574615	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	323392	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	592553	20.000	ng	0.00
76) Chrysene-d12	14.057	240	701213	20.000	ng	0.00
86) Perylene-d12	15.533	264	697844	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	576514	63.458	ng	0.00
7) Phenol-d6	6.498	99	459016	43.728	ng	-0.01
23) Nitrobenzene-d5	7.445	82	882260	93.984	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	649802	135.705	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1774262	85.615	ng	0.00
79) Terphenyl-d14	13.004	244	3196053	92.696	ng	0.00
Target Compounds						Qvalue
74) Di-n-butylphthalate	11.969	149	74821	2.438	ng	100

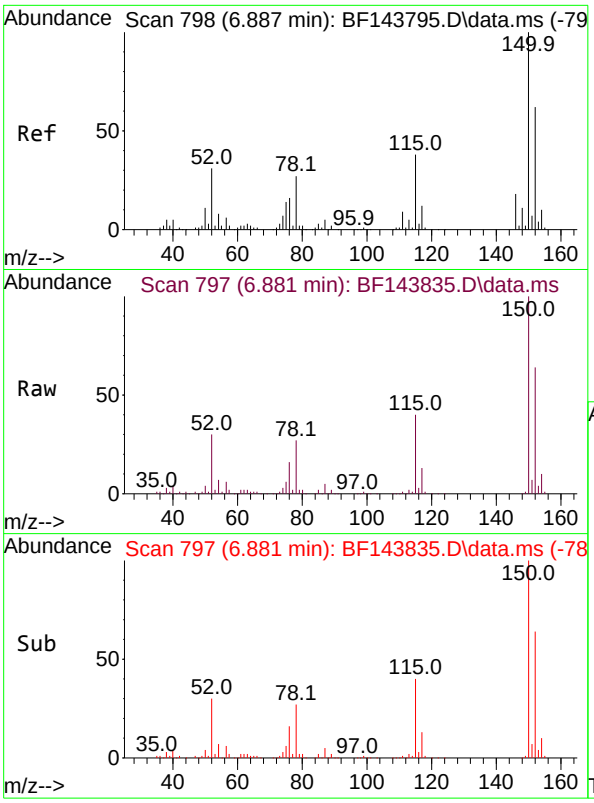
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143835.D
Acq On : 30 Sep 2025 16:07
Operator : RC/JU
Sample : Q3177-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EME-TS12-01

Quant Time: Sep 30 16:28:05 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration



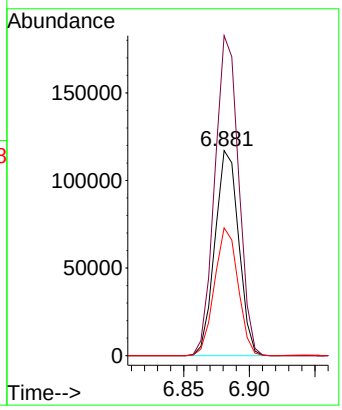


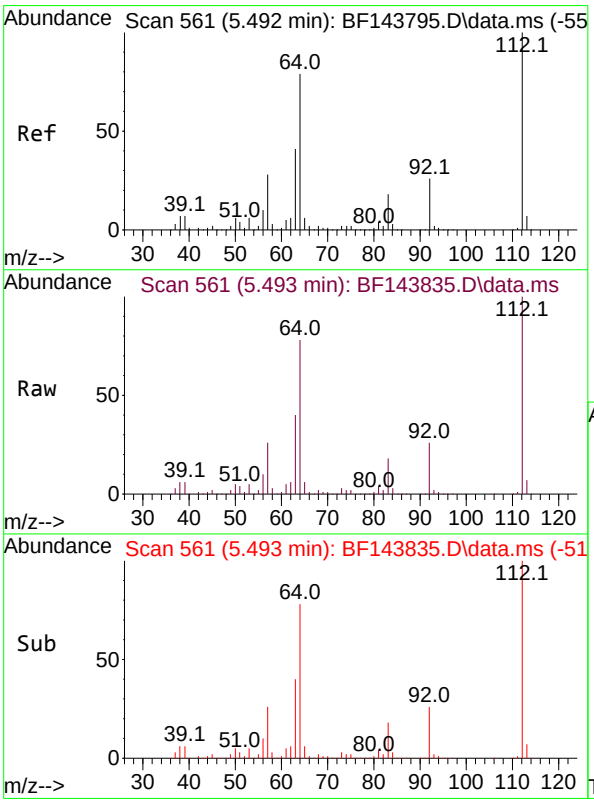
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 79
Delta R.T. -0.006 min
Lab File: BF143835.D
Acq: 30 Sep 2025 16:07

Instrument :
BNA_F
ClientSampleId :
EME-TS12-01

Tgt Ion:152 Resp: 147604

Ion	Ratio	Lower	Upper
152	100		
150	156.1	129.6	194.4
115	62.4	49.0	73.4

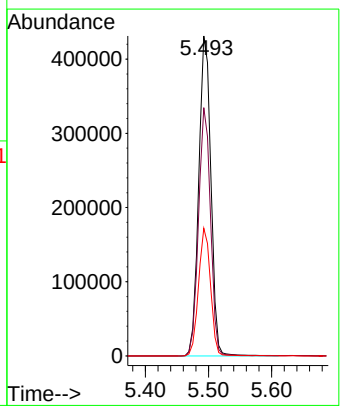


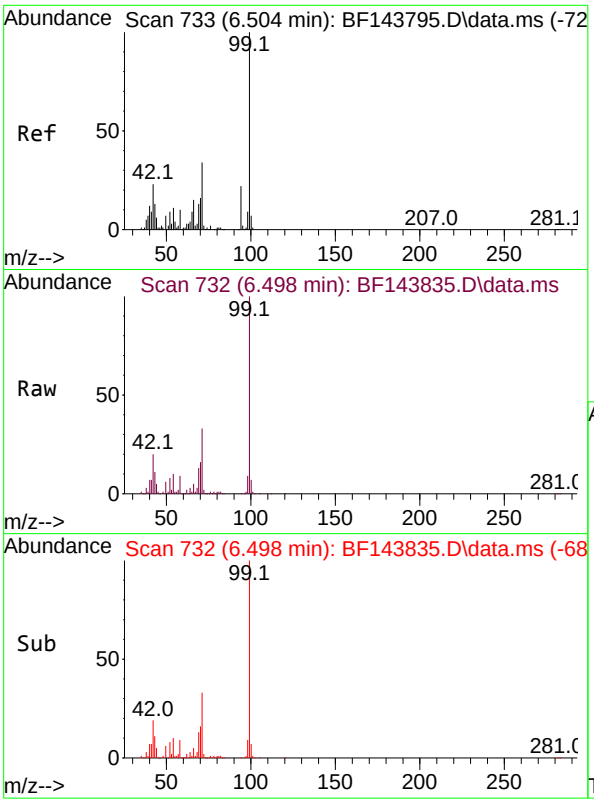


#5
2-Fluorophenol
Concen: 63.458 ng
RT: 5.493 min Scan# 561
Delta R.T. -0.005 min
Lab File: BF143835.D
Acq: 30 Sep 2025 16:07

Tgt Ion:112 Resp: 576514

Ion	Ratio	Lower	Upper
112	100		
64	77.6	63.0	94.4
63	39.9	32.6	49.0



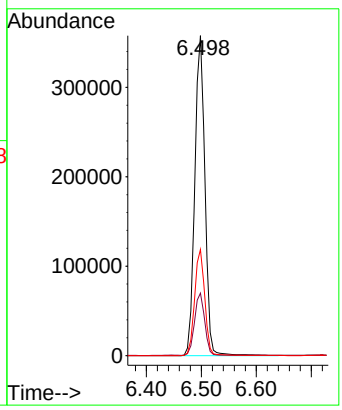


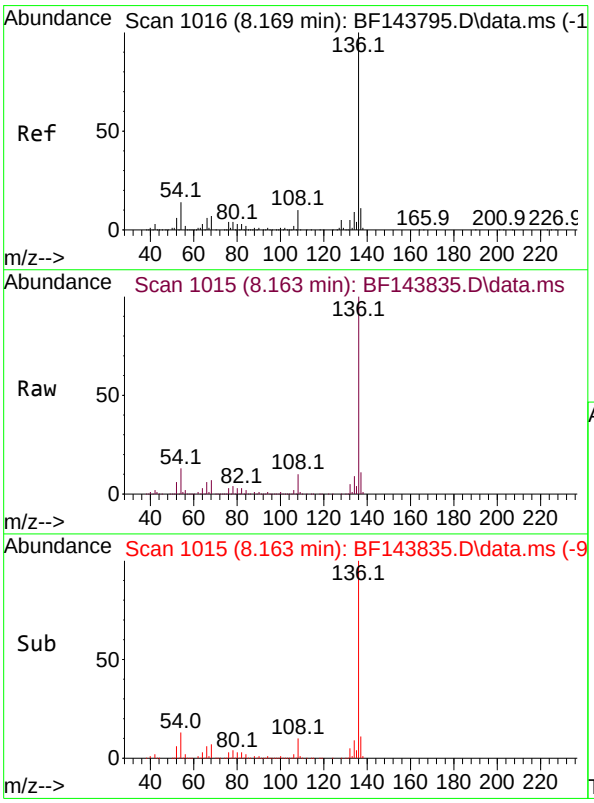
#7
Phenol-d6
Concen: 43.728 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143835.D
Acq: 30 Sep 2025 16:07

Instrument :
BNA_F
ClientSampleId :
EME-TS12-01

Tgt Ion: 99 Resp: 459016

Ion	Ratio	Lower	Upper
99	100		
42	19.6	18.6	28.0
71	33.2	27.0	40.4

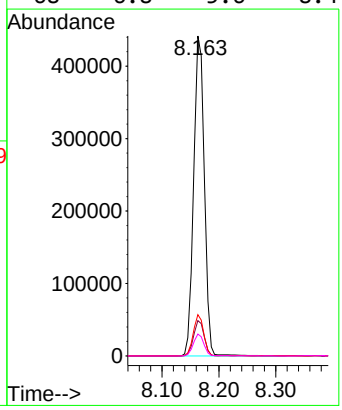


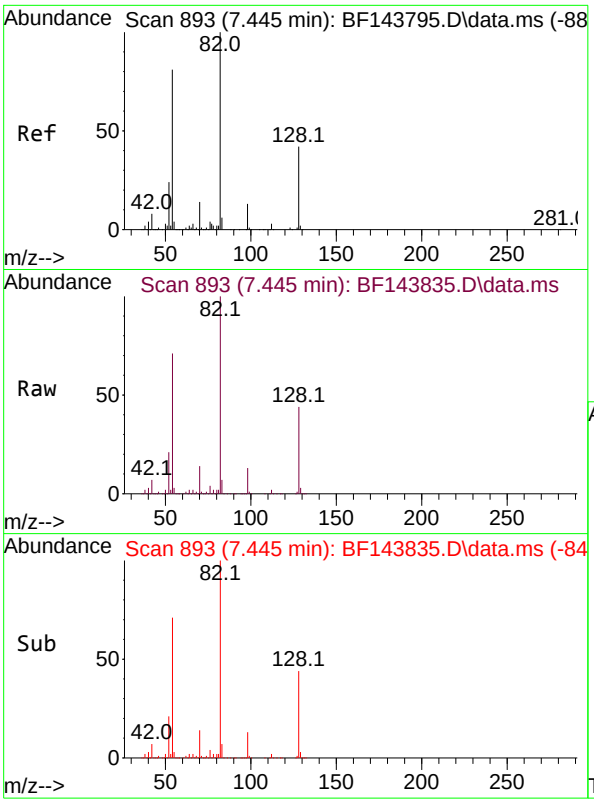


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143835.D
Acq: 30 Sep 2025 16:07

Tgt Ion:136 Resp: 574615

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	12.9	11.2	16.8
68	6.8	5.6	8.4



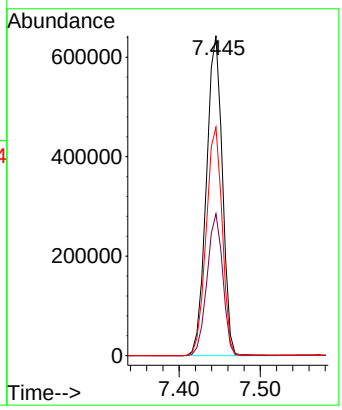


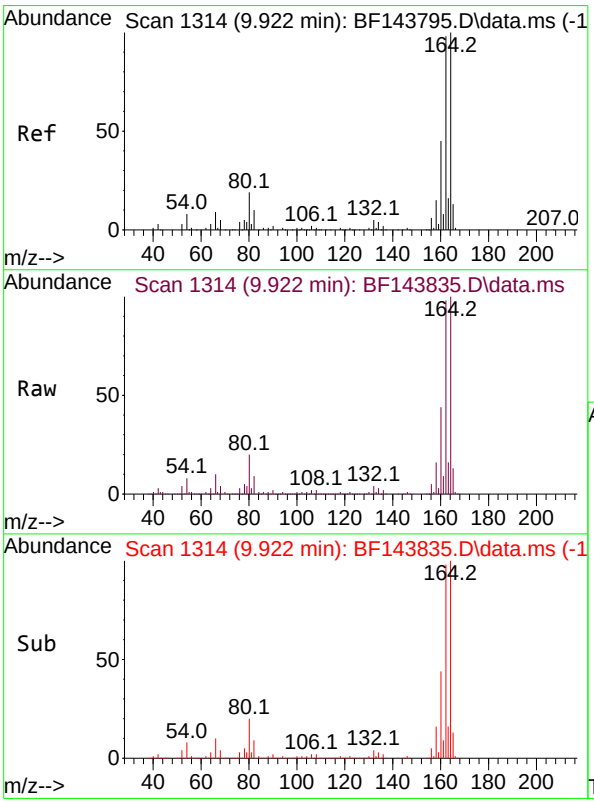
#23
Nitrobenzene-d5
Concen: 93.984 ng
RT: 7.445 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143835.D
Acq: 30 Sep 2025 16:07

Instrument :
BNA_F
ClientSampleId :
EME-TS12-01

Tgt Ion: 82 Resp: 882260

Ion	Ratio	Lower	Upper
82	100		
128	44.3	33.3	49.9
54	71.4	64.2	96.4

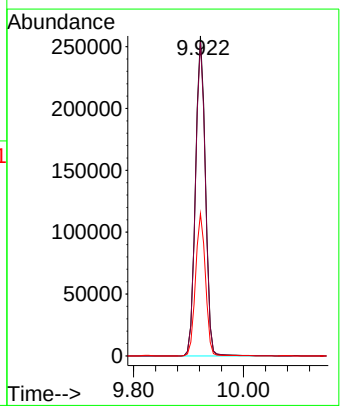


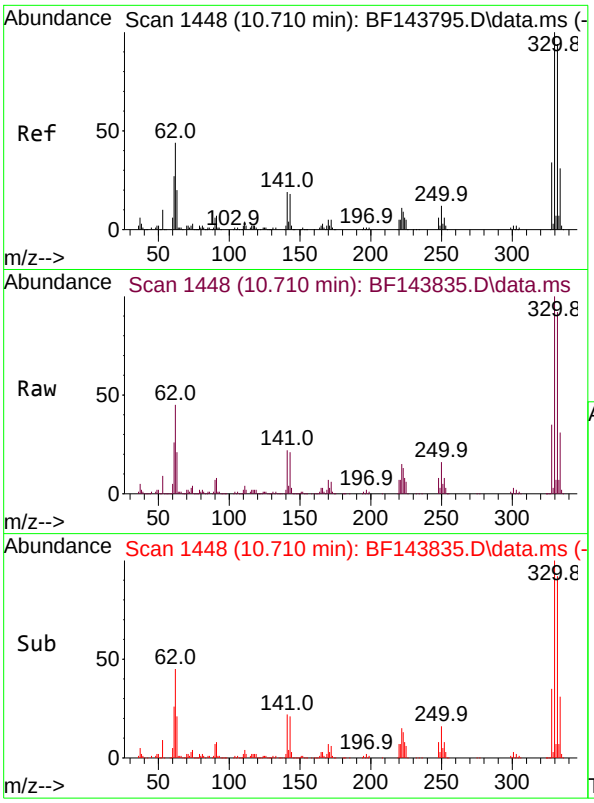


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF143835.D
Acq: 30 Sep 2025 16:07

Tgt Ion:164 Resp: 323392

Ion	Ratio	Lower	Upper
164	100		
162	98.1	78.8	118.2
160	44.4	35.8	53.6



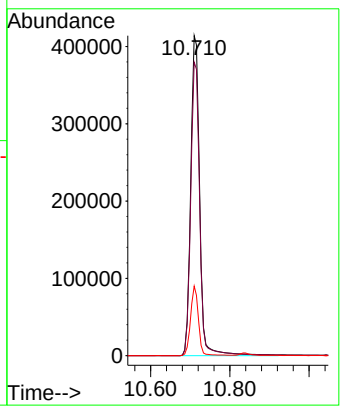


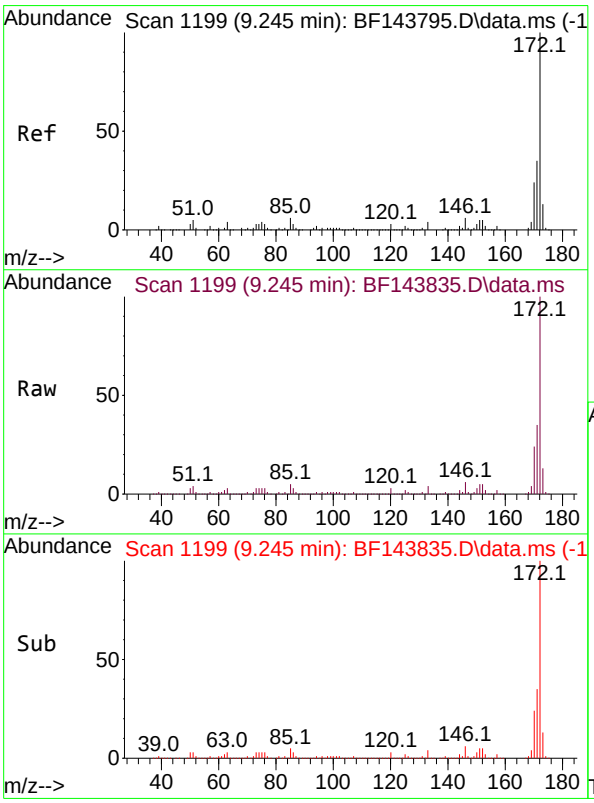
#42
2,4,6-Tribromophenol
Concen: 135.705 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143835.D
Acq: 30 Sep 2025 16:07

Instrument :
BNA_F
ClientSampleId :
EME-TS12-01

Tgt Ion:330 Resp: 649802

Ion	Ratio	Lower	Upper
330	100		
332	92.5	74.7	112.1
141	19.1	14.3	21.5

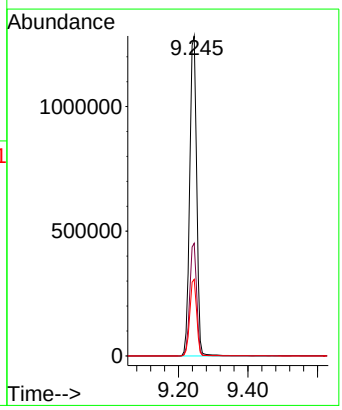


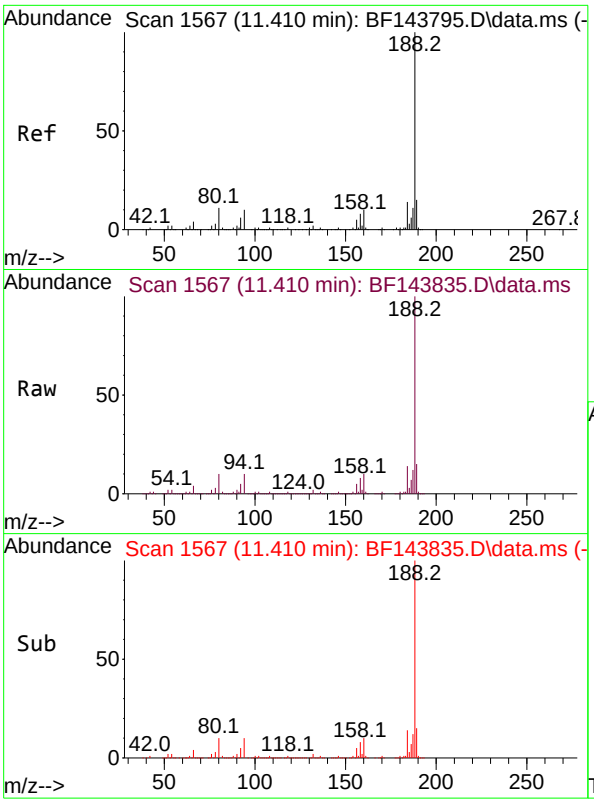


#45
2-Fluorobiphenyl
Concen: 85.615 ng
RT: 9.245 min Scan# 1199
Delta R.T. 0.000 min
Lab File: BF143835.D
Acq: 30 Sep 2025 16:07

Tgt Ion:172 Resp: 1774262

Ion	Ratio	Lower	Upper
172	100		
171	35.2	27.9	41.9
170	23.9	19.1	28.7



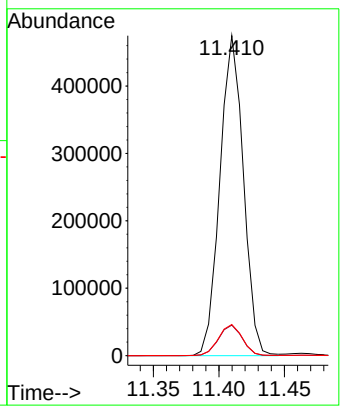


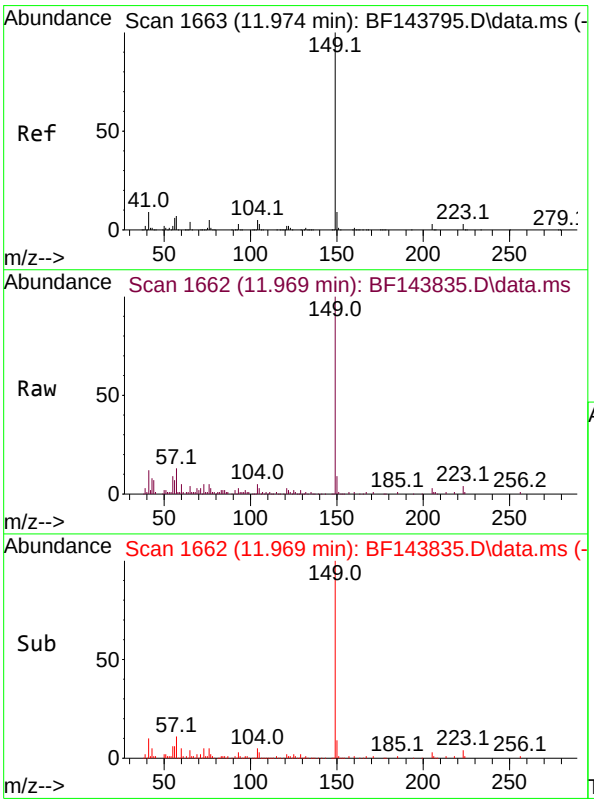
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143835.D
Acq: 30 Sep 2025 16:07

Instrument :
BNA_F
ClientSampleId :
EME-TS12-01

Tgt Ion:188 Resp: 592553

Ion	Ratio	Lower	Upper
188	100		
94	9.5	8.2	12.2
80	9.7	8.6	12.8

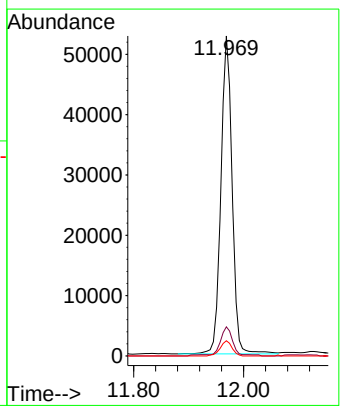


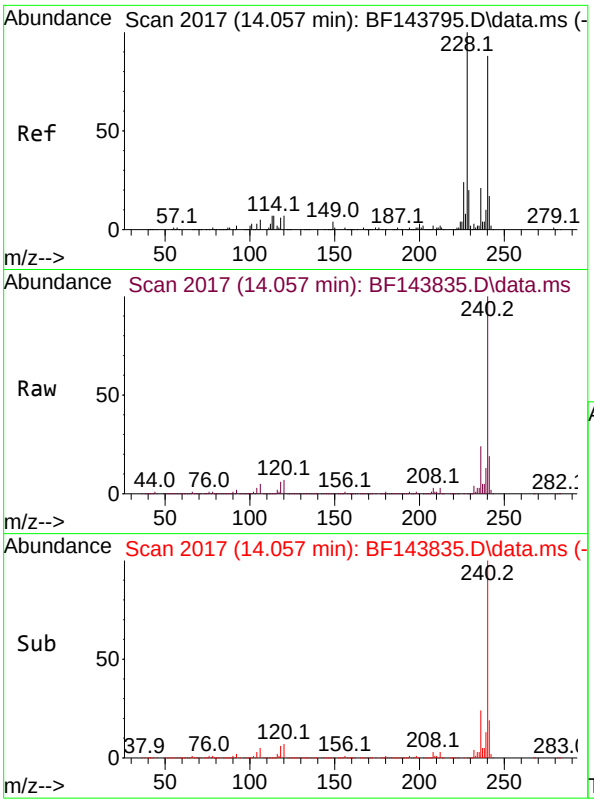


#74
Di-n-butylphthalate
Concen: 2.438 ng
RT: 11.969 min Scan# 1662
Delta R.T. -0.006 min
Lab File: BF143835.D
Acq: 30 Sep 2025 16:07

Tgt Ion:149 Resp: 74821

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.7	3.6	5.4



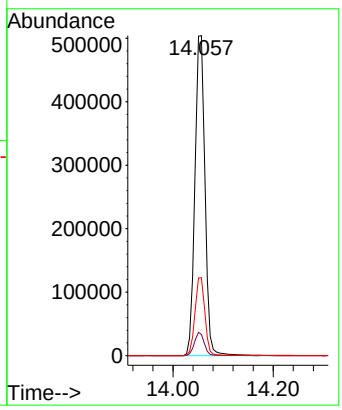


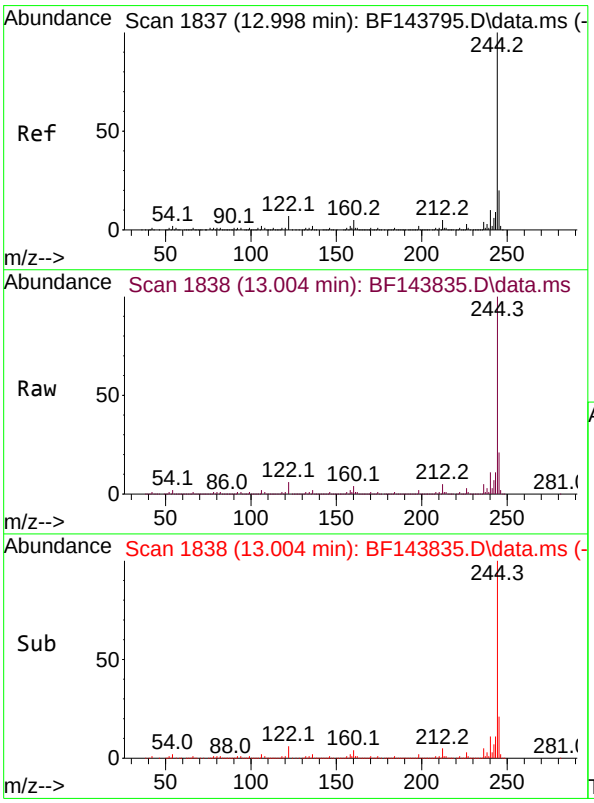
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143835.D
Acq: 30 Sep 2025 16:07

Instrument :
BNA_F
ClientSampleId :
EME-TS12-01

Tgt Ion:240 Resp: 701213

Ion	Ratio	Lower	Upper
240	100		
120	6.6	6.2	9.4
236	24.3	19.4	29.2

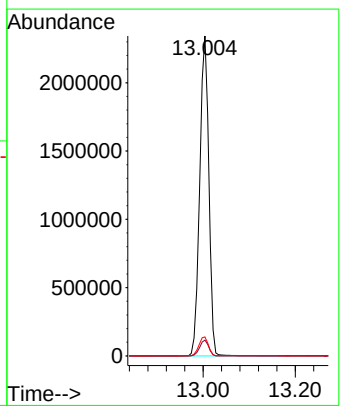


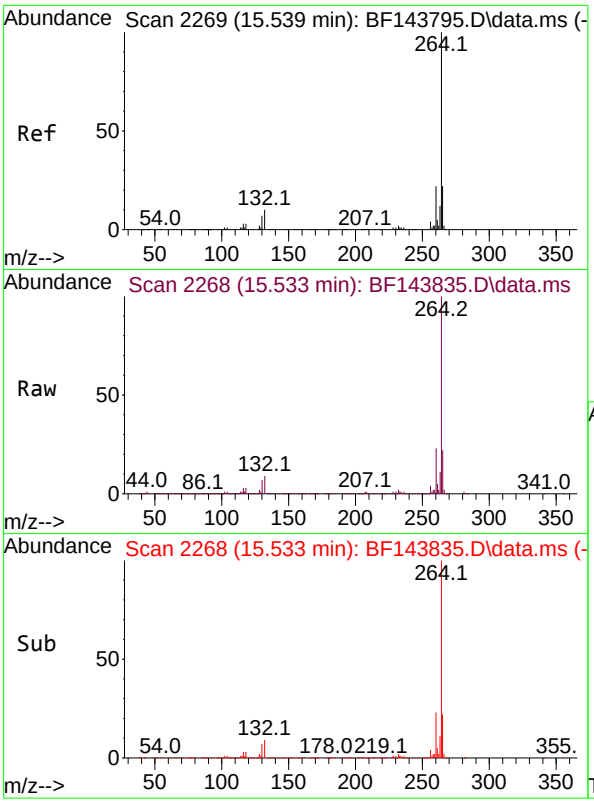


#79
Terphenyl-d14
Concen: 92.696 ng
RT: 13.004 min Scan# 1838
Delta R.T. -0.000 min
Lab File: BF143835.D
Acq: 30 Sep 2025 16:07

Tgt Ion:244 Resp: 3196053

Ion	Ratio	Lower	Upper
244	100		
212	4.9	3.9	5.9
122	5.9	5.6	8.4



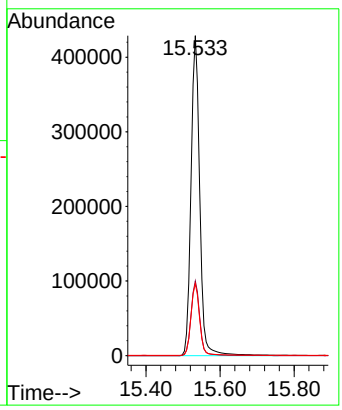


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143835.D
Acq: 30 Sep 2025 16:07

Instrument :
BNA_F
ClientSampleId :
EME-TS12-01

Tgt Ion:264 Resp: 697844

Ion	Ratio	Lower	Upper
264	100		
260	23.3	17.9	26.9
265	22.5	17.7	26.5



Raw Data: **BF143836.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS13-01	SDG No.:	Q3177
Lab Sample ID:	Q3177-02	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143836.D	1	09/29/25 08:42	09/30/25 16:37	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
62-75-9	n-Nitrosodimethylamine	0.86	U	0.86	10.0	ug/L
110-86-1	Pyridine	1.30	U	1.30	5.00	ug/L
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
62-53-3	Aniline	1.50	U	1.50	5.00	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
100-51-6	Benzyl Alcohol	1.60	UQ	1.60	10.0	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
65-85-0	Benzoic acid	4.20	UQ	4.20	10.0	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	U	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L

Raw Data: **BF143836.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS13-01	SDG No.:	Q3177
Lab Sample ID:	Q3177-02	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143836.D	1	09/29/25 08:42	09/30/25 16:37	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	UQ	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
103-33-3	Azobenzene	0.81	U	0.81	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
92-87-5	Benzidine	4.30	U	4.30	10.0	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L

Raw Data: **BF143836.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS13-01	SDG No.:	Q3177
Lab Sample ID:	Q3177-02	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143836.D	1	09/29/25 08:42	09/30/25 16:37	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
85-68-7	Butylbenzylphthalate	1.90	U	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
90-12-0	1-Methylnaphthalene	0.66	U	0.66	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	61.2		23 - 138	41%	SPK: 150
13127-88-3	Phenol-d6	42.3		10 - 134	28%	SPK: 150
4165-60-0	Nitrobenzene-d5	88.5		67 - 132	88%	SPK: 100
321-60-8	2-Fluorobiphenyl	84.7		52 - 132	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	136		44 - 137	90%	SPK: 150
1718-51-0	Terphenyl-d14	99.7		42 - 152	100%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	140000	6.881			
1146-65-2	Naphthalene-d8	541000	8.163			
15067-26-2	Acenaphthene-d10	299000	9.922			
1517-22-2	Phenanthrene-d10	528000	11.41			
1719-03-5	Chrysene-d12	554000	14.051			
1520-96-3	Perylene-d12	553000	15.533			

Raw Data: **BF143836.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS13-01	SDG No.:	Q3177
Lab Sample ID:	Q3177-02	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143836.D	1	09/29/25 08:42	09/30/25 16:37	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143836.D
Acq On : 30 Sep 2025 16:37
Operator : RC/JU
Sample : Q3177-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EME-TS13-01

Quant Time: Sep 30 17:00:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	140037	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	541403	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	299388	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	527999	20.000	ng	0.00
76) Chrysene-d12	14.051	240	554361	20.000	ng	-0.01
86) Perylene-d12	15.533	264	552796	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	527510	61.201	ng	0.00
7) Phenol-d6	6.498	99	420770	42.250	ng	-0.01
23) Nitrobenzene-d5	7.445	82	782689	88.492	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	601520	135.694	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	1625076	84.704	ng	0.00
79) Terphenyl-d14	13.004	244	2718536	99.733	ng	0.00
Target Compounds						Qvalue

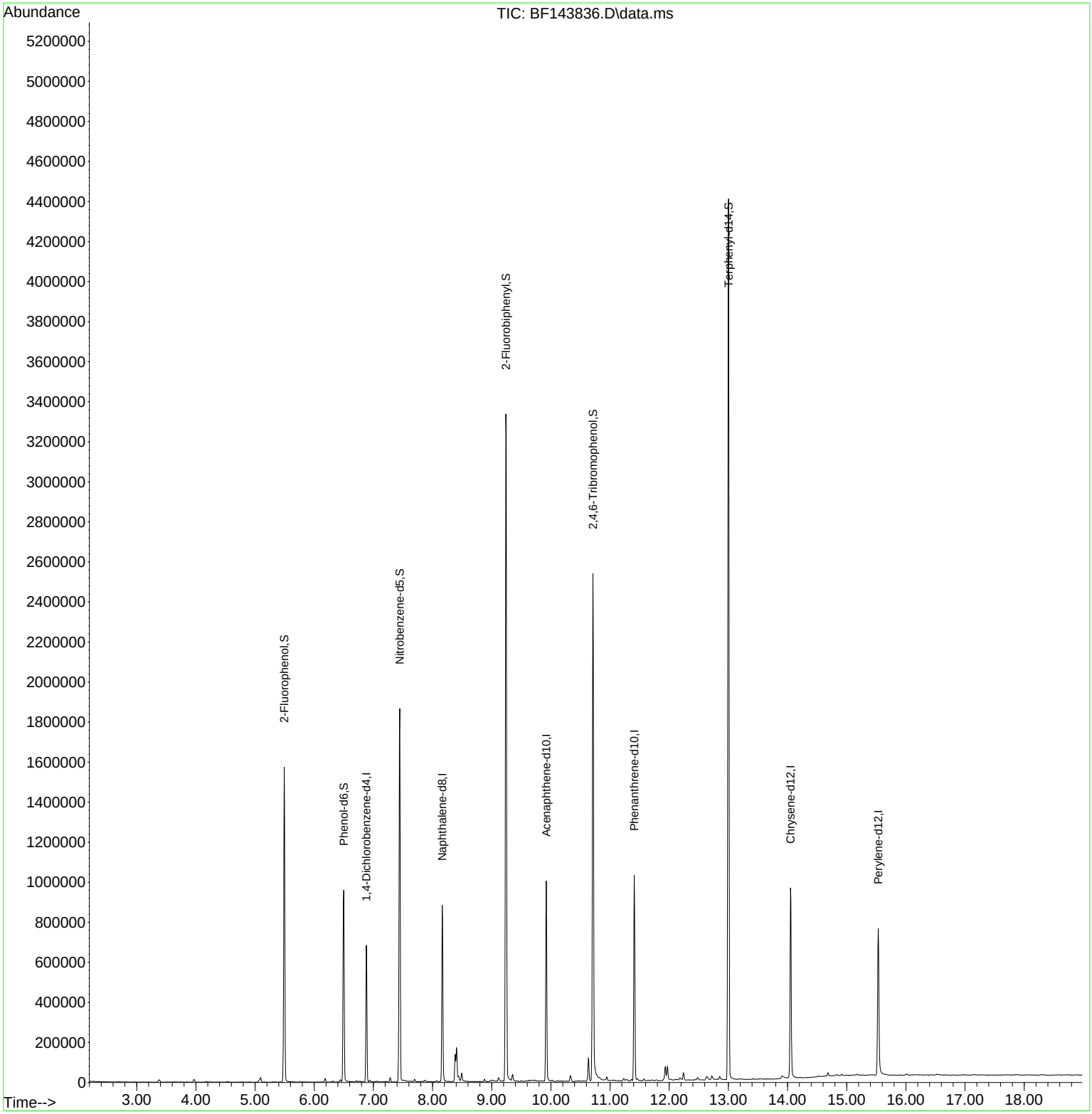
(#) = qualifier out of range (m) = manual integration (+) = signals summed

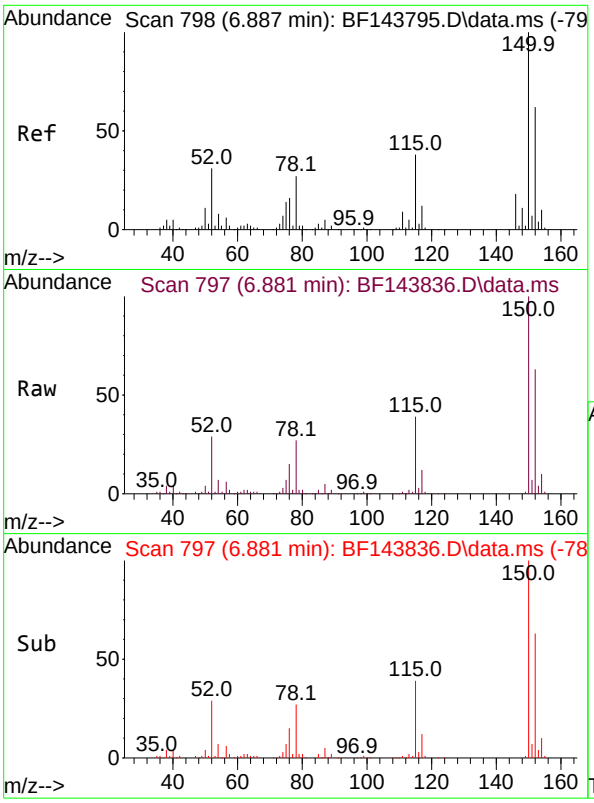
Sample Results: **BF143836.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143836.D
Acq On : 30 Sep 2025 16:37
Operator : RC/JU
Sample : Q3177-02
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EME-TS13-01

Quant Time: Sep 30 17:00:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration



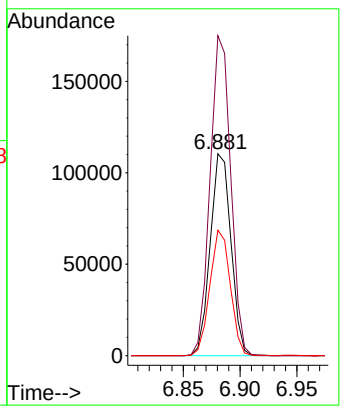


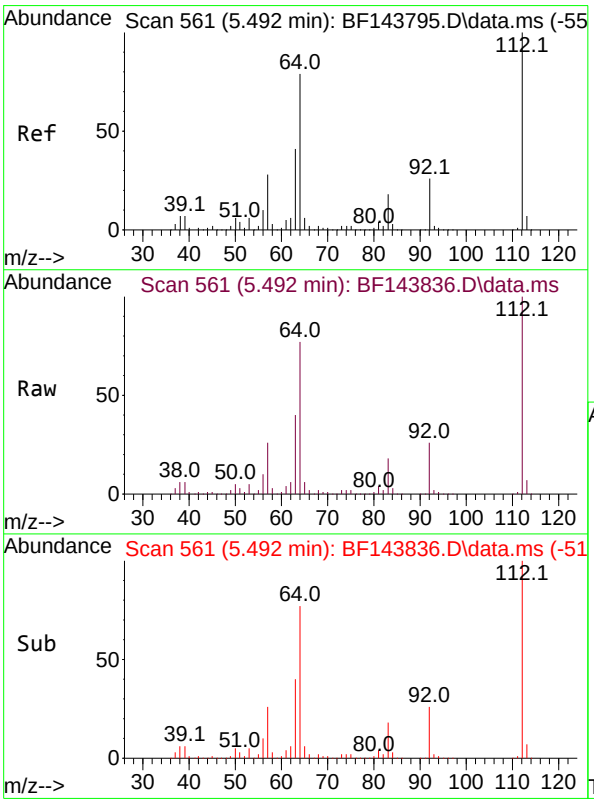
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 79
Delta R.T. -0.006 min
Lab File: BF143836.D
Acq: 30 Sep 2025 16:37

Instrument :
BNA_F
ClientSampleId :
EME-TS13-01

Tgt Ion:152 Resp: 140037

Ion	Ratio	Lower	Upper
152	100		
150	158.6	129.6	194.4
115	62.1	49.0	73.4

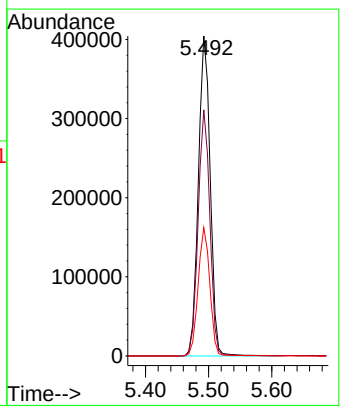


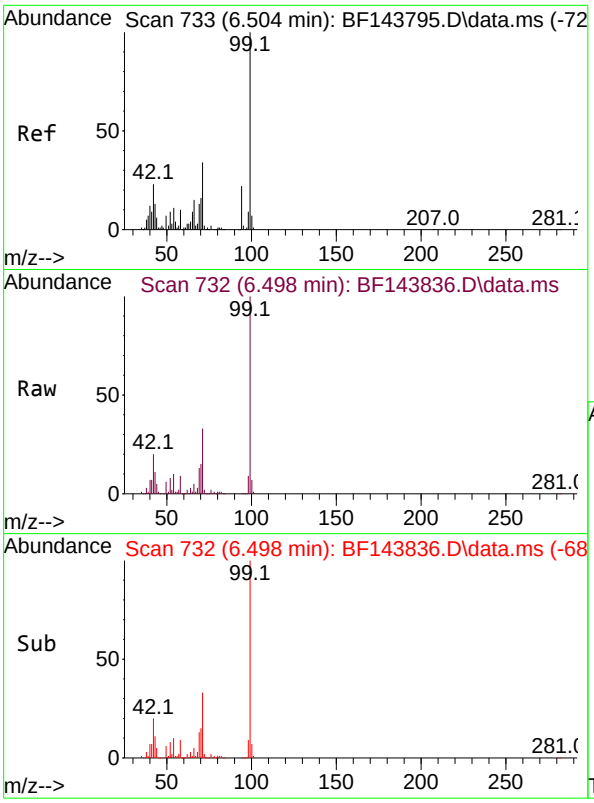


#5
2-Fluorophenol
Concen: 61.201 ng
RT: 5.492 min Scan# 561
Delta R.T. -0.006 min
Lab File: BF143836.D
Acq: 30 Sep 2025 16:37

Tgt Ion:112 Resp: 527510

Ion	Ratio	Lower	Upper
112	100		
64	76.9	63.0	94.4
63	40.1	32.6	49.0



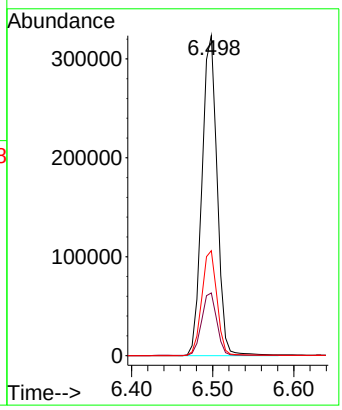


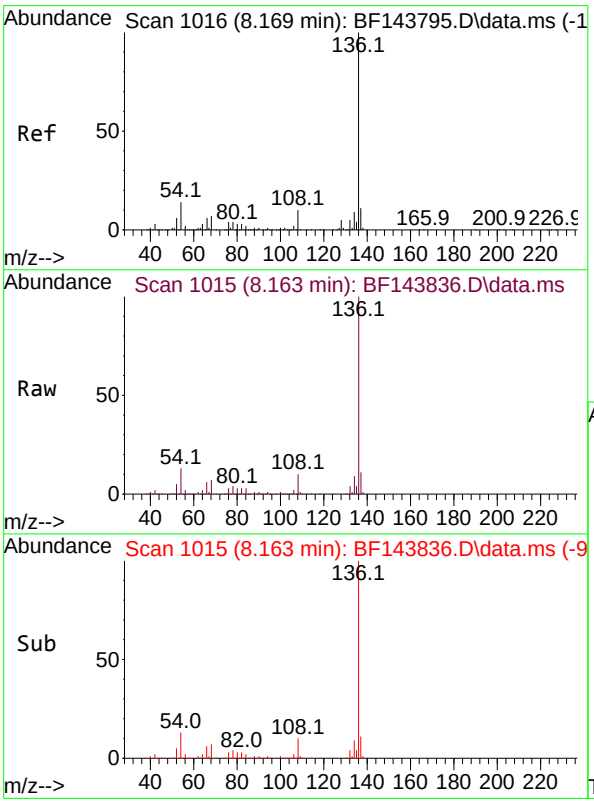
#7
Phenol-d6
Concen: 42.250 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143836.D
Acq: 30 Sep 2025 16:37

Instrument :
BNA_F
ClientSampleId :
EME-TS13-01

Tgt Ion: 99 Resp: 420770

Ion	Ratio	Lower	Upper
99	100		
42	19.6	18.6	28.0
71	32.8	27.0	40.4

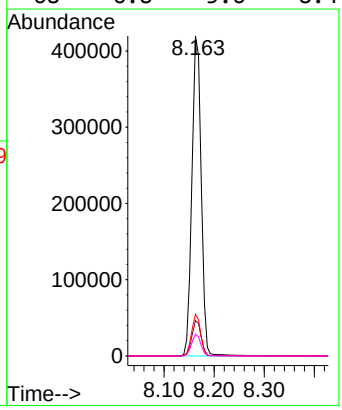


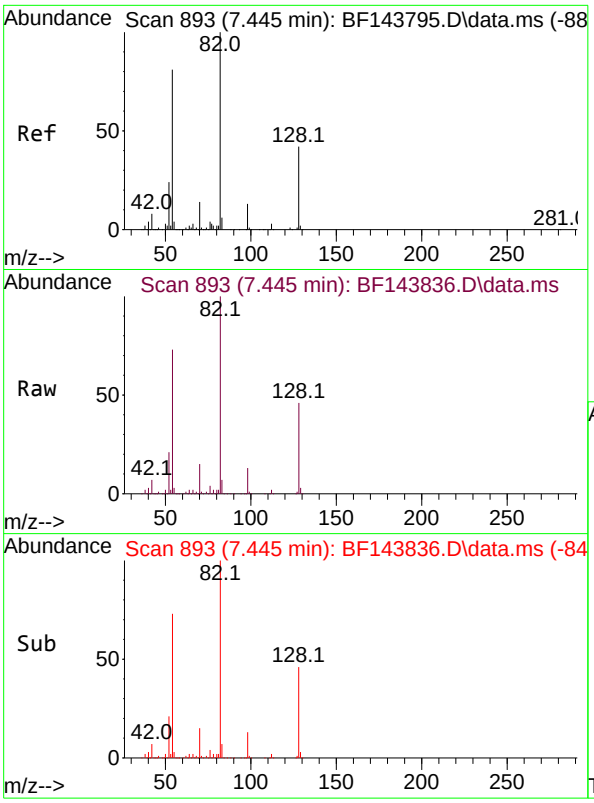


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143836.D
Acq: 30 Sep 2025 16:37

Tgt Ion:136 Resp: 541403

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	13.0	11.2	16.8
68	6.8	5.6	8.4



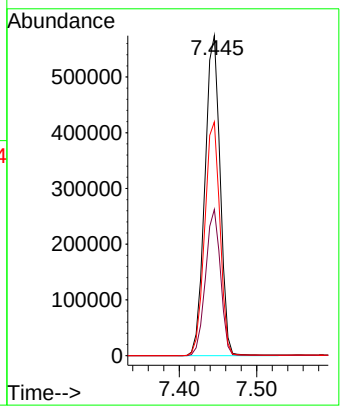


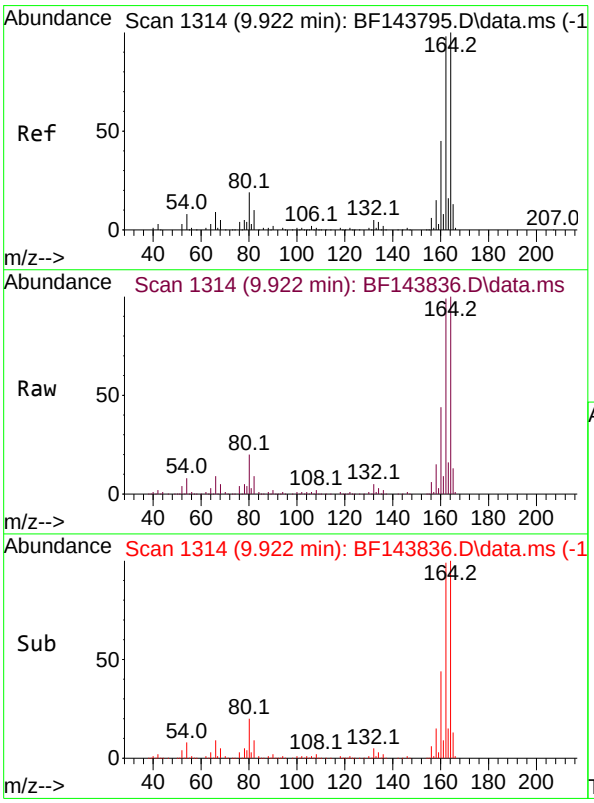
#23
Nitrobenzene-d5
Concen: 88.492 ng
RT: 7.445 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF143836.D
Acq: 30 Sep 2025 16:37

Instrument :
BNA_F
ClientSampleId :
EME-TS13-01

Tgt Ion: 82 Resp: 782689

Ion	Ratio	Lower	Upper
82	100		
128	45.7	33.3	49.9
54	73.0	64.2	96.4

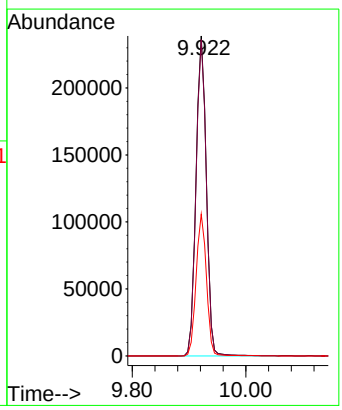


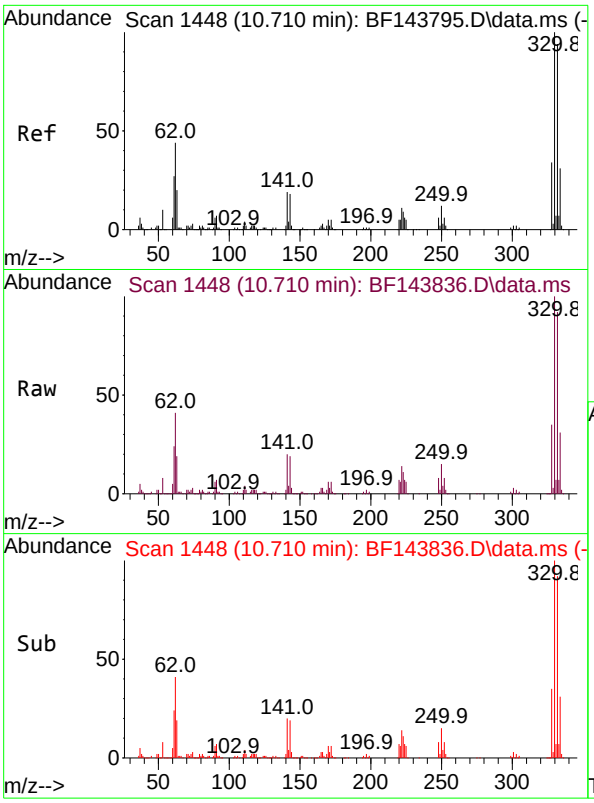


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.007 min
Lab File: BF143836.D
Acq: 30 Sep 2025 16:37

Tgt Ion:164 Resp: 299388

Ion	Ratio	Lower	Upper
164	100		
162	98.8	78.8	118.2
160	44.3	35.8	53.6



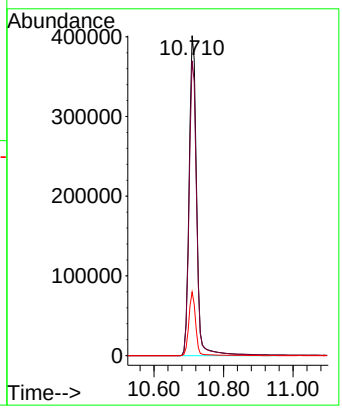


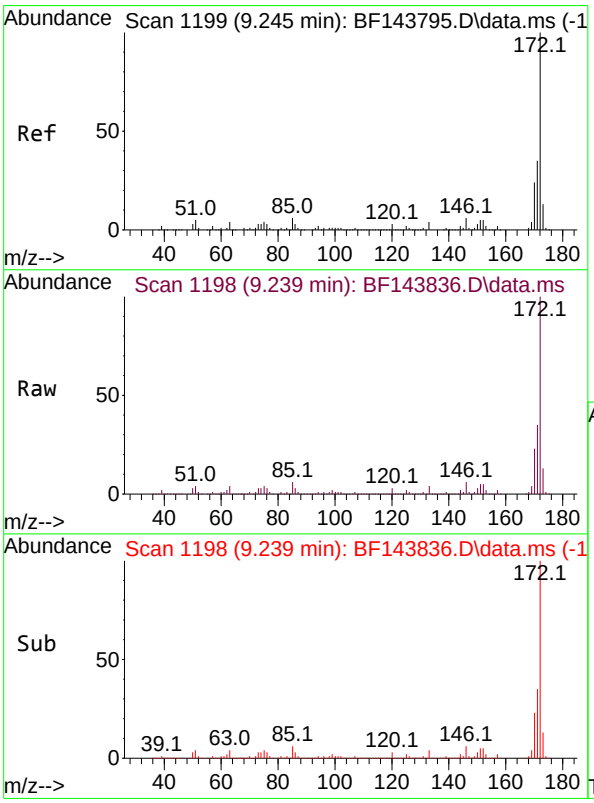
#42
2,4,6-Tribromophenol
Concen: 135.694 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143836.D
Acq: 30 Sep 2025 16:37

Instrument :
BNA_F
ClientSampleId :
EME-TS13-01

Tgt Ion:330 Resp: 601520

Ion	Ratio	Lower	Upper
330	100		
332	92.9	74.7	112.1
141	18.1	14.3	21.5

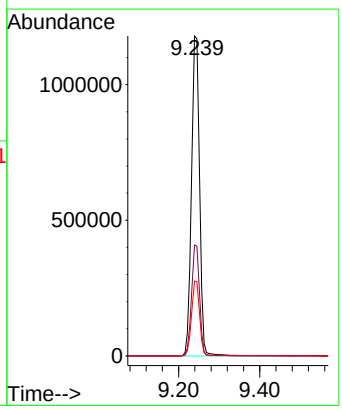


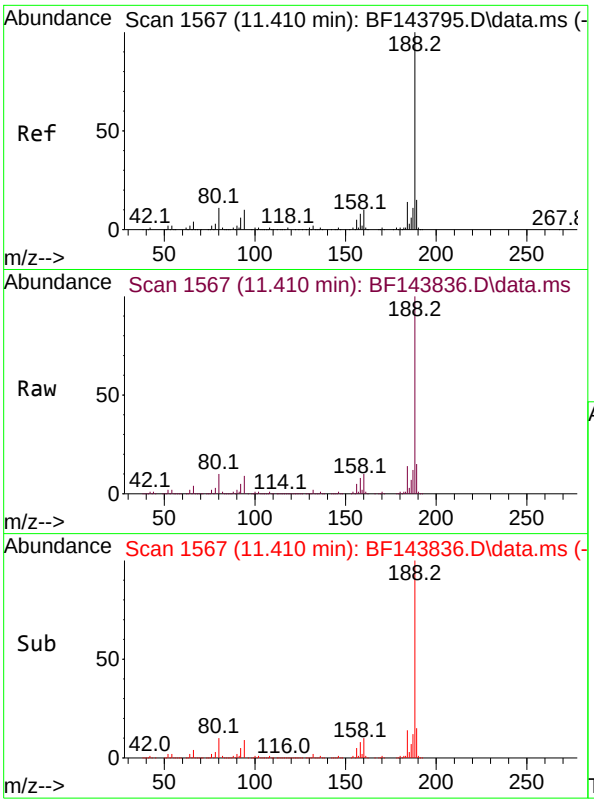


#45
2-Fluorobiphenyl
Concen: 84.704 ng
RT: 9.239 min Scan# 1198
Delta R.T. -0.006 min
Lab File: BF143836.D
Acq: 30 Sep 2025 16:37

Tgt Ion:172 Resp: 1625076

Ion	Ratio	Lower	Upper
172	100		
171	34.6	27.9	41.9
170	23.4	19.1	28.7



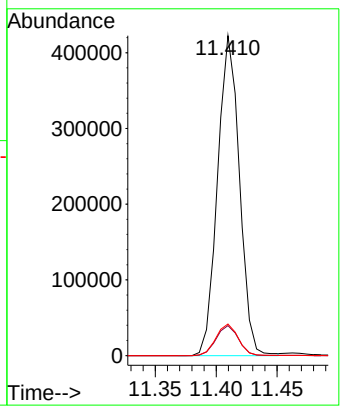


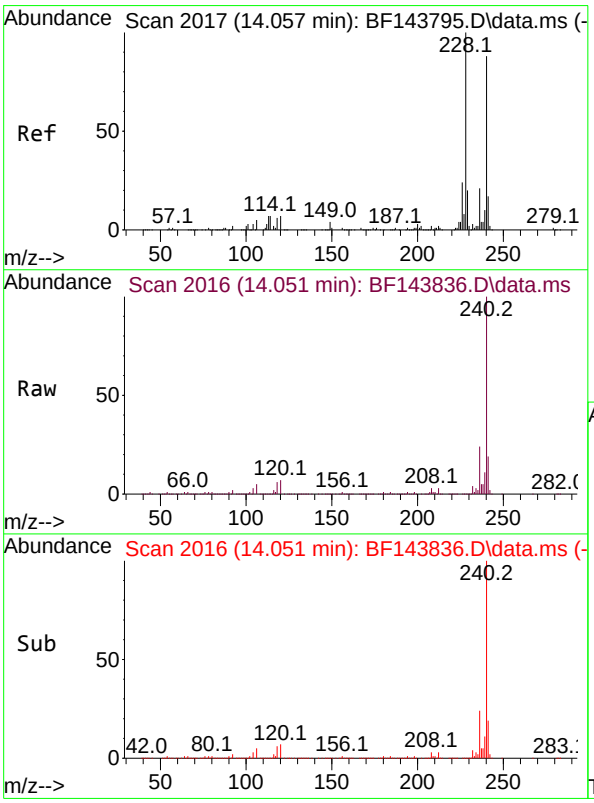
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143836.D
Acq: 30 Sep 2025 16:37

Instrument :
BNA_F
ClientSampleId :
EME-TS13-01

Tgt Ion:188 Resp: 527999

Ion	Ratio	Lower	Upper
188	100		
94	9.4	8.2	12.2
80	9.9	8.6	12.8

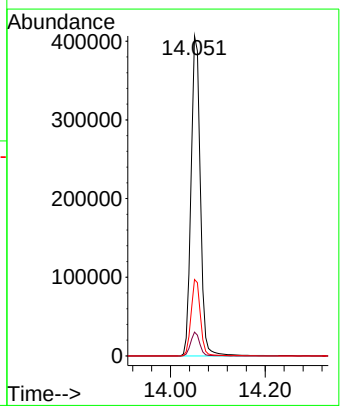


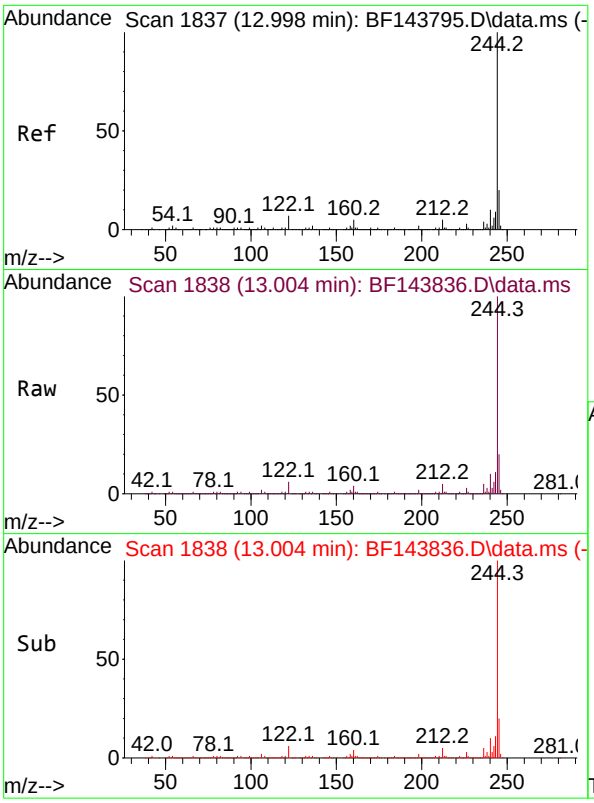


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF143836.D
Acq: 30 Sep 2025 16:37

Tgt Ion:240 Resp: 554361

Ion	Ratio	Lower	Upper
240	100		
120	7.4	6.2	9.4
236	23.9	19.4	29.2



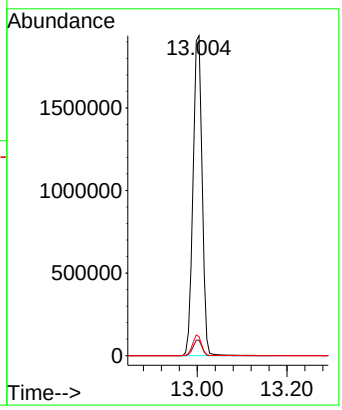


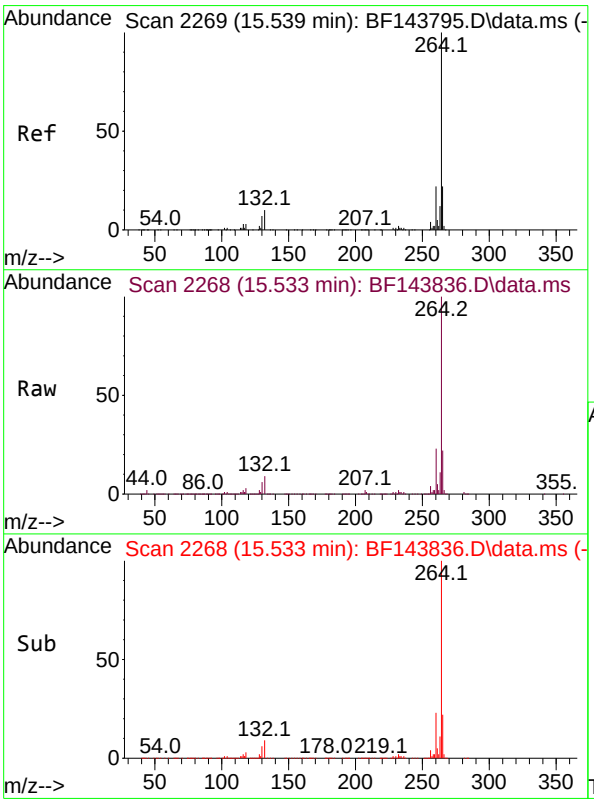
#79
Terphenyl-d14
Concen: 99.733 ng
RT: 13.004 min Scan# 18
Delta R.T. -0.000 min
Lab File: BF143836.D
Acq: 30 Sep 2025 16:37

Instrument :
BNA_F
ClientSampleId :
EME-TS13-01

Tgt Ion:244 Resp: 2718536

Ion	Ratio	Lower	Upper
244	100		
212	4.8	3.9	5.9
122	5.9	5.6	8.4

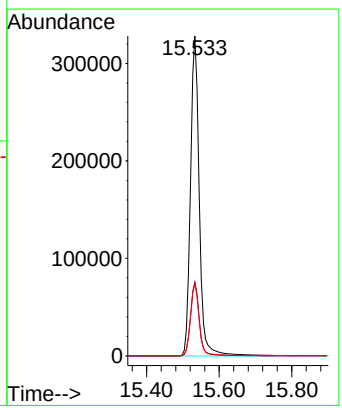




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143836.D
Acq: 30 Sep 2025 16:37

Tgt Ion:264 Resp: 552796

Ion	Ratio	Lower	Upper
264	100		
260	23.1	17.9	26.9
265	22.5	17.7	26.5



Raw Data: **BF143837.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-02	SDG No.:	Q3177
Lab Sample ID:	Q3177-03	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143837.D	1	09/29/25 08:42	09/30/25 17:06	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
62-75-9	n-Nitrosodimethylamine	0.86	U	0.86	10.0	ug/L
110-86-1	Pyridine	1.30	U	1.30	5.00	ug/L
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
62-53-3	Aniline	1.50	U	1.50	5.00	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
100-51-6	Benzyl Alcohol	1.60	UQ	1.60	10.0	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
65-85-0	Benzoic acid	4.20	UQ	4.20	10.0	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	U	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L

Raw Data: **BF143837.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-02	SDG No.:	Q3177
Lab Sample ID:	Q3177-03	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143837.D	1	09/29/25 08:42	09/30/25 17:06	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	UQ	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
103-33-3	Azobenzene	0.81	U	0.81	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
92-87-5	Benzidine	4.30	U	4.30	10.0	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L

Raw Data: **BF143837.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-02	SDG No.:	Q3177
Lab Sample ID:	Q3177-03	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143837.D	1	09/29/25 08:42	09/30/25 17:06	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
85-68-7	Butylbenzylphthalate	1.90	U	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
90-12-0	1-Methylnaphthalene	0.66	U	0.66	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	61.7		23 - 138	41%	SPK: 150
13127-88-3	Phenol-d6	41.2		10 - 134	27%	SPK: 150
4165-60-0	Nitrobenzene-d5	94.0		67 - 132	94%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.8		52 - 132	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	137		44 - 137	91%	SPK: 150
1718-51-0	Terphenyl-d14	105		42 - 152	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	143000	6.881			
1146-65-2	Naphthalene-d8	544000	8.163			
15067-26-2	Acenaphthene-d10	301000	9.922			
1517-22-2	Phenanthrene-d10	523000	11.41			
1719-03-5	Chrysene-d12	518000	14.051			
1520-96-3	Perylene-d12	569000	15.533			

Raw Data: **BF143837.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-02	SDG No.:	Q3177
Lab Sample ID:	Q3177-03	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143837.D	1	09/29/25 08:42	09/30/25 17:06	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143837.D
Acq On : 30 Sep 2025 17:06
Operator : RC/JU
Sample : Q3177-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EME-TS14-02

Quant Time: Sep 30 17:27:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	142531	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	544465	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	300805	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	522676	20.000	ng	0.00
76) Chrysene-d12	14.051	240	517798	20.000	ng	-0.01
86) Perylene-d12	15.533	264	569467	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	541213	61.692	ng	0.00
7) Phenol-d6	6.498	99	417174	41.156	ng	-0.01
23) Nitrobenzene-d5	7.445	82	835720	93.956	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	610367	137.041	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1673851	86.835	ng	0.00
79) Terphenyl-d14	13.004	244	2676610	105.129	ng	0.00
Target Compounds						Qvalue

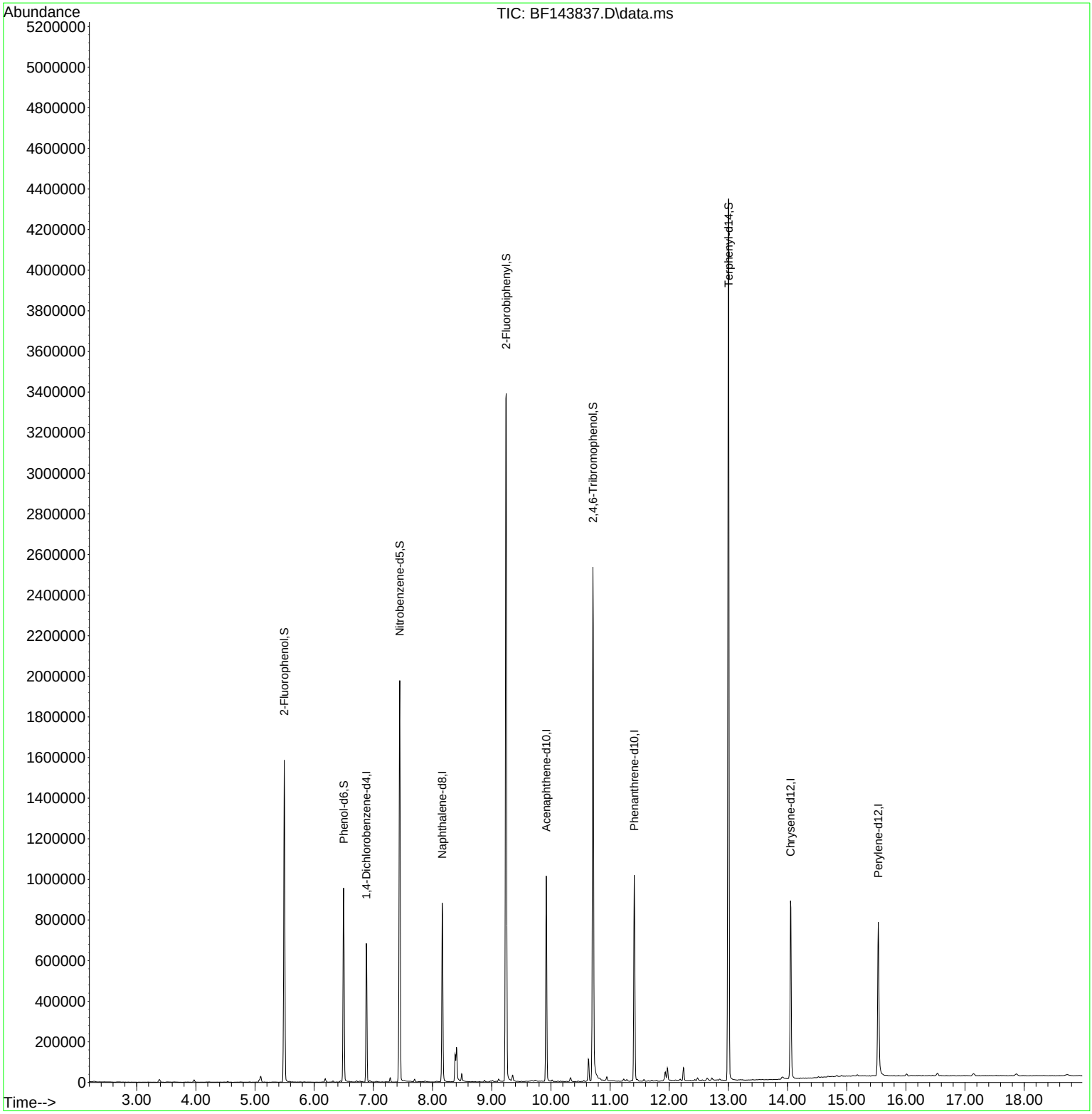
(#) = qualifier out of range (m) = manual integration (+) = signals summed

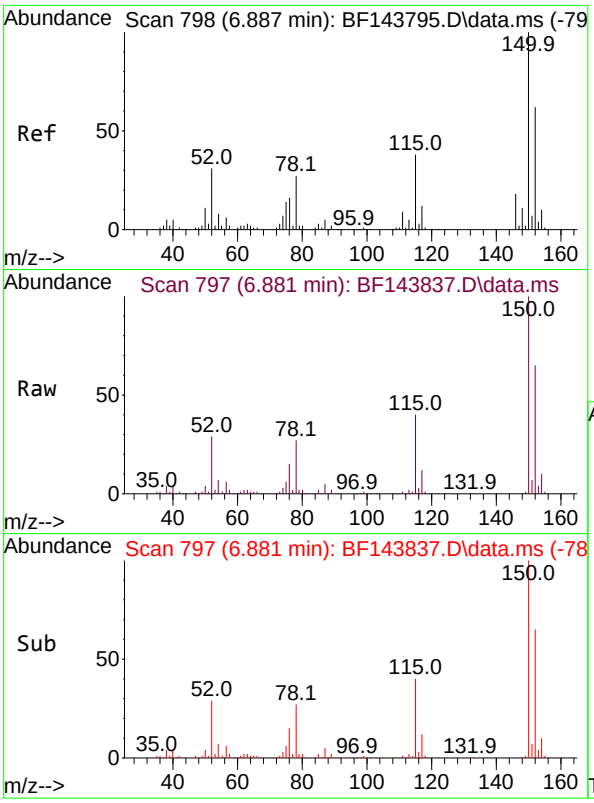
Sample Results: **BF143837.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143837.D
Acq On : 30 Sep 2025 17:06
Operator : RC/JU
Sample : Q3177-03
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EME-TS14-02

Quant Time: Sep 30 17:27:52 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration



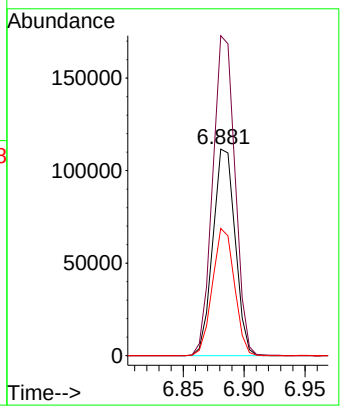


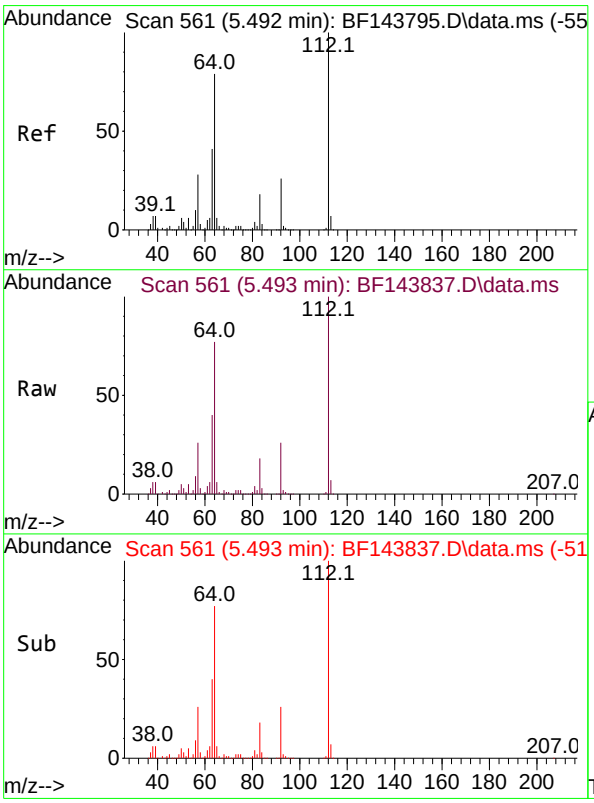
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 79
Delta R.T. -0.006 min
Lab File: BF143837.D
Acq: 30 Sep 2025 17:06

Instrument :
BNA_F
ClientSampleId :
EME-TS14-02

Tgt Ion:152 Resp: 142531

Ion	Ratio	Lower	Upper
152	100		
150	154.9	129.6	194.4
115	61.5	49.0	73.4

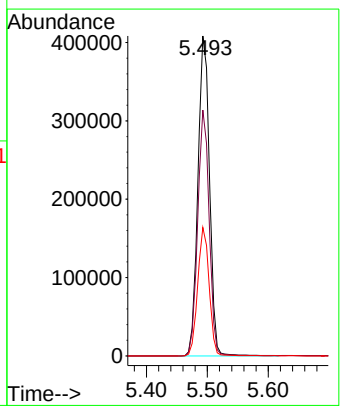


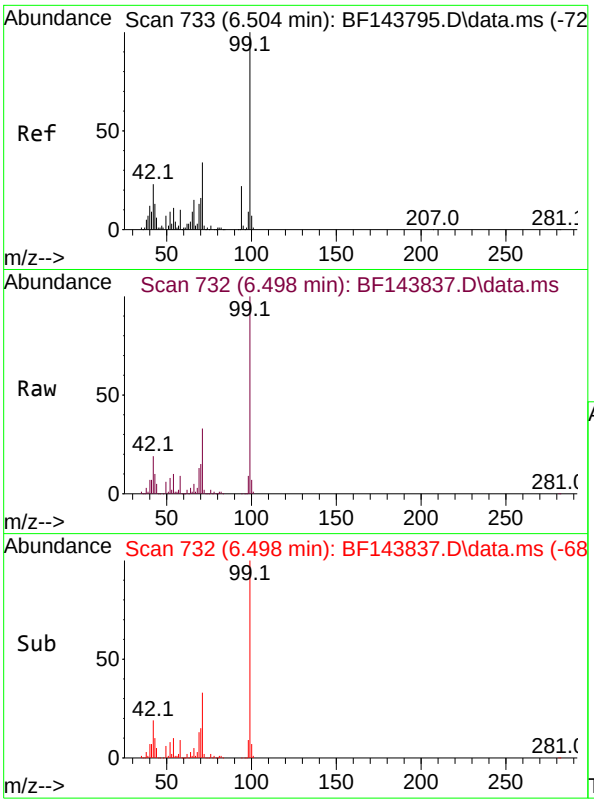


#5
2-Fluorophenol
Concen: 61.692 ng
RT: 5.493 min Scan# 561
Delta R.T. -0.005 min
Lab File: BF143837.D
Acq: 30 Sep 2025 17:06

Tgt Ion:112 Resp: 541213

Ion	Ratio	Lower	Upper
112	100		
64	76.8	63.0	94.4
63	40.1	32.6	49.0



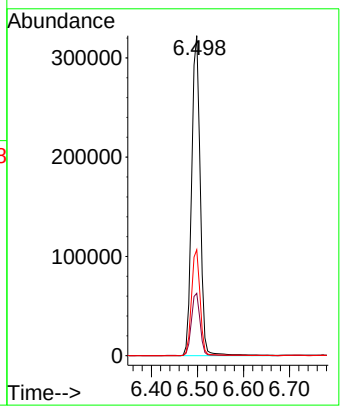


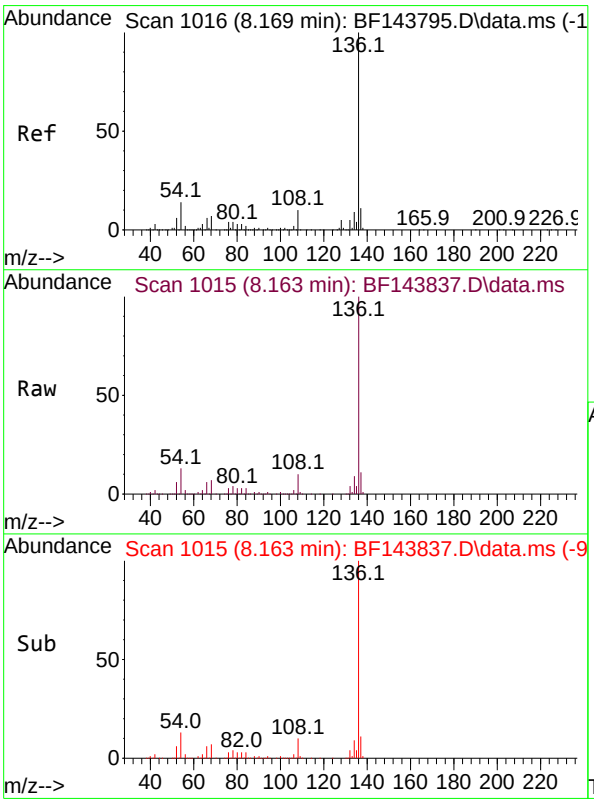
#7
Phenol-d6
Concen: 41.156 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143837.D
Acq: 30 Sep 2025 17:06

Instrument :
BNA_F
ClientSampleId :
EME-TS14-02

Tgt Ion: 99 Resp: 417174

Ion	Ratio	Lower	Upper
99	100		
42	19.5	18.6	28.0
71	33.1	27.0	40.4

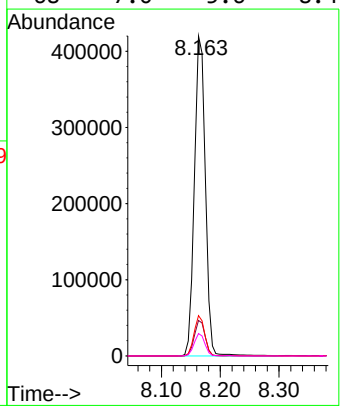


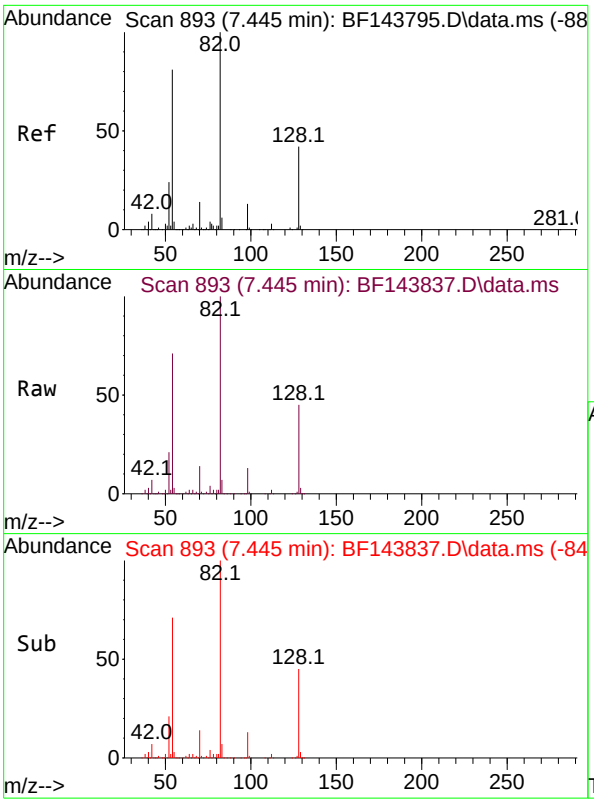


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 1015
Delta R.T. -0.006 min
Lab File: BF143837.D
Acq: 30 Sep 2025 17:06

Tgt Ion:136 Resp: 544465

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	12.6	11.2	16.8
68	7.0	5.6	8.4



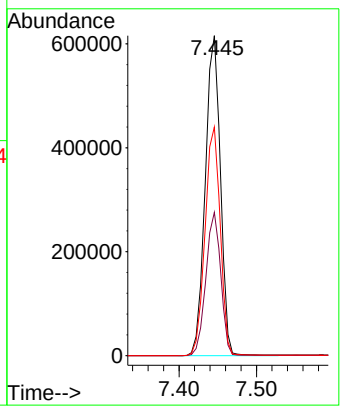


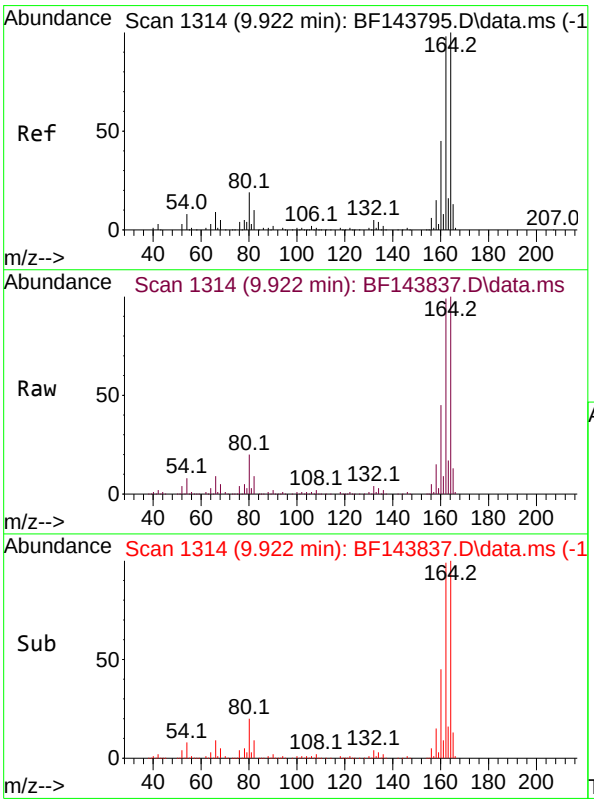
#23
Nitrobenzene-d5
Concen: 93.956 ng
RT: 7.445 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF143837.D
Acq: 30 Sep 2025 17:06

Instrument :
BNA_F
ClientSampleId :
EME-TS14-02

Tgt Ion: 82 Resp: 835720

Ion	Ratio	Lower	Upper
82	100		
128	44.8	33.3	49.9
54	71.4	64.2	96.4

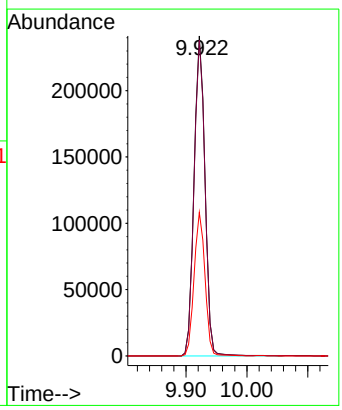


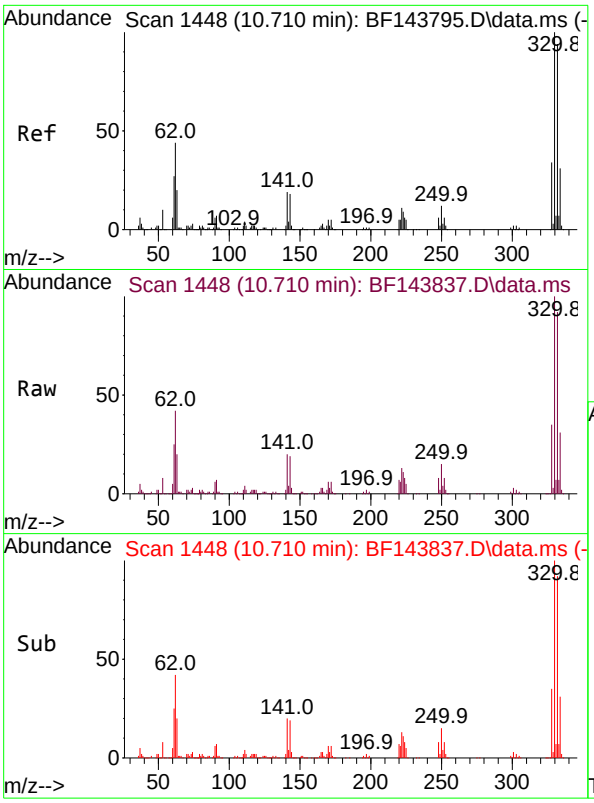


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF143837.D
Acq: 30 Sep 2025 17:06

Tgt Ion:164 Resp: 300805

Ion	Ratio	Lower	Upper
164	100		
162	98.7	78.8	118.2
160	44.8	35.8	53.6



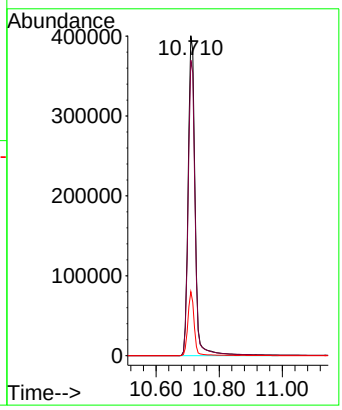


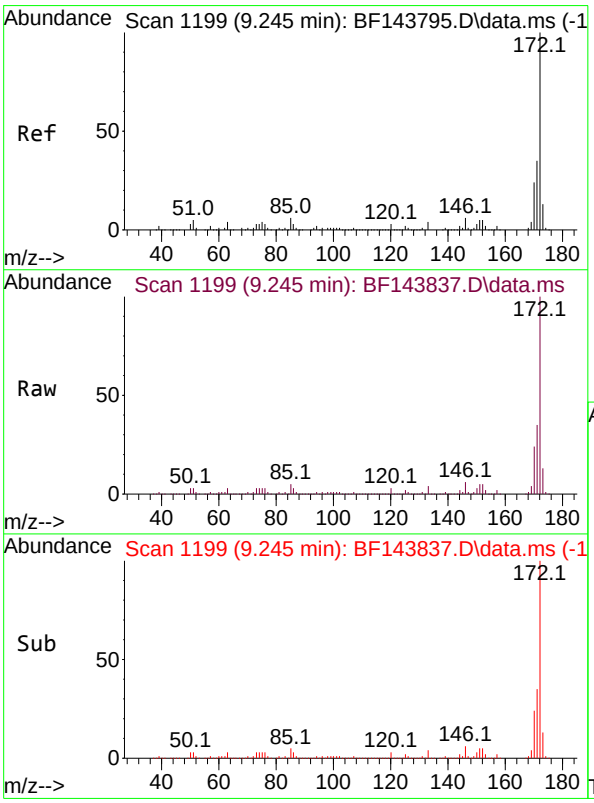
#42
2,4,6-Tribromophenol
Concen: 137.041 ng
RT: 10.710 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143837.D
Acq: 30 Sep 2025 17:06

Instrument :
BNA_F
ClientSampleId :
EME-TS14-02

Tgt Ion:330 Resp: 610367

Ion	Ratio	Lower	Upper
330	100		
332	93.0	74.7	112.1
141	18.1	14.3	21.5

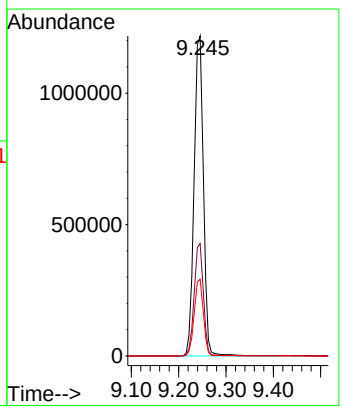


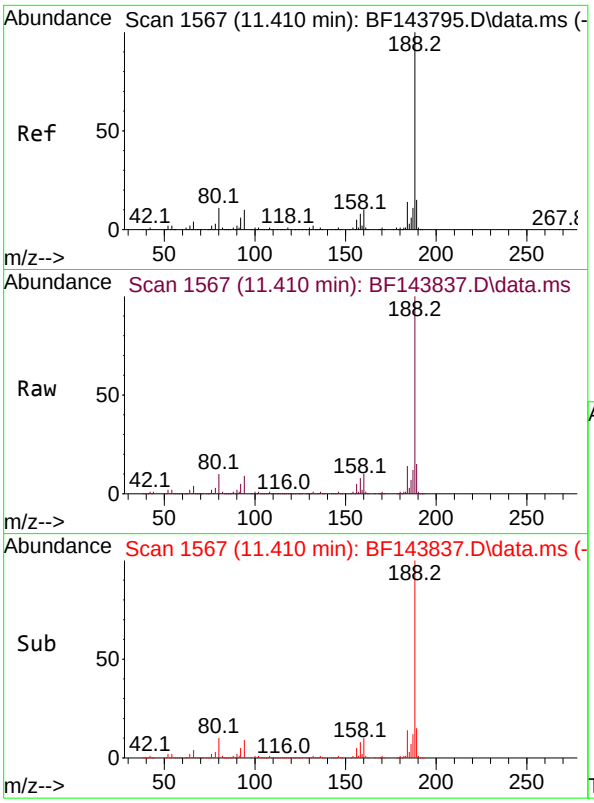


#45
2-Fluorobiphenyl
Concen: 86.835 ng
RT: 9.245 min Scan# 1199
Delta R.T. 0.000 min
Lab File: BF143837.D
Acq: 30 Sep 2025 17:06

Tgt Ion:172 Resp: 1673851

Ion	Ratio	Lower	Upper
172	100		
171	35.1	27.9	41.9
170	24.0	19.1	28.7



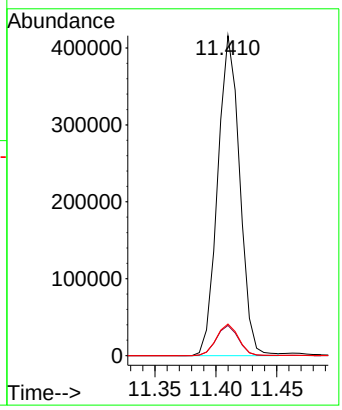


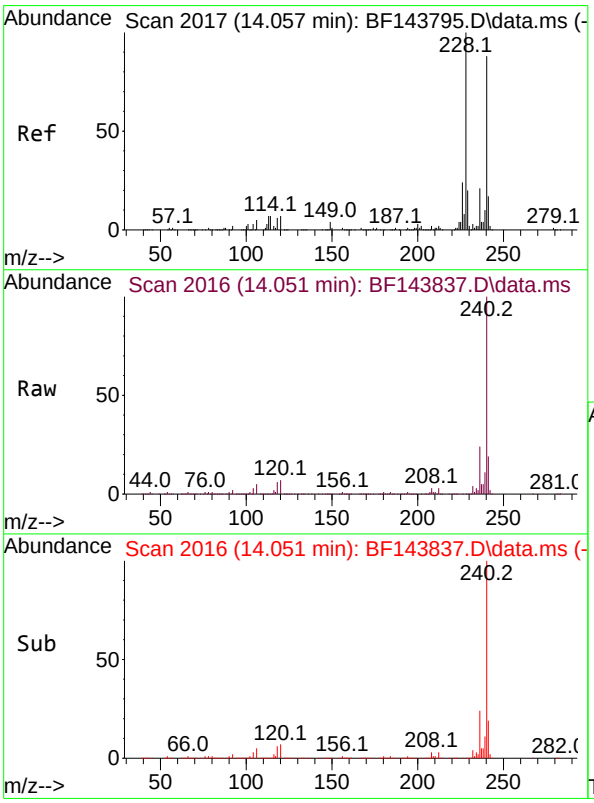
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143837.D
Acq: 30 Sep 2025 17:06

Instrument :
BNA_F
ClientSampleId :
EME-TS14-02

Tgt Ion:188 Resp: 522676

Ion	Ratio	Lower	Upper
188	100		
94	9.4	8.2	12.2
80	9.9	8.6	12.8

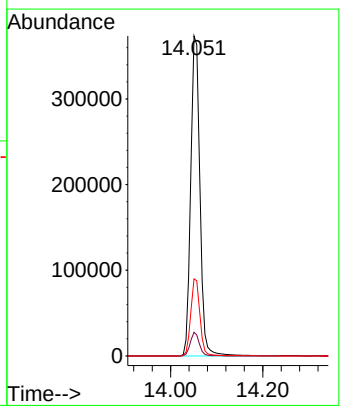


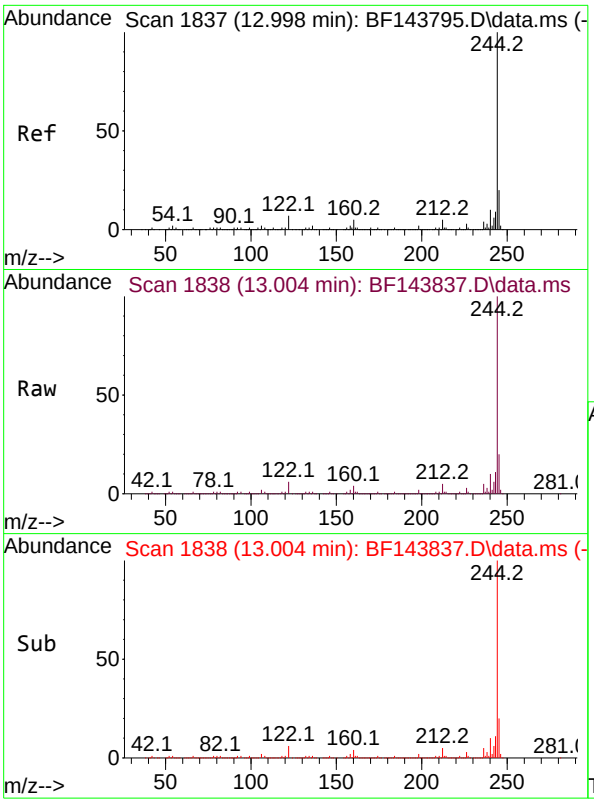


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF143837.D
Acq: 30 Sep 2025 17:06

Tgt Ion:240 Resp: 517798

Ion	Ratio	Lower	Upper
240	100		
120	7.4	6.2	9.4
236	24.1	19.4	29.2



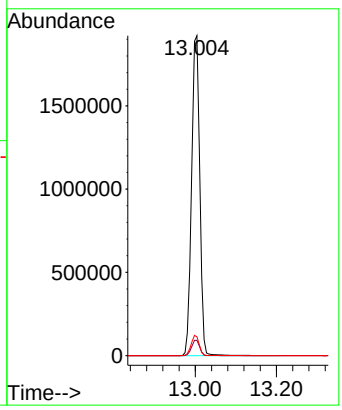


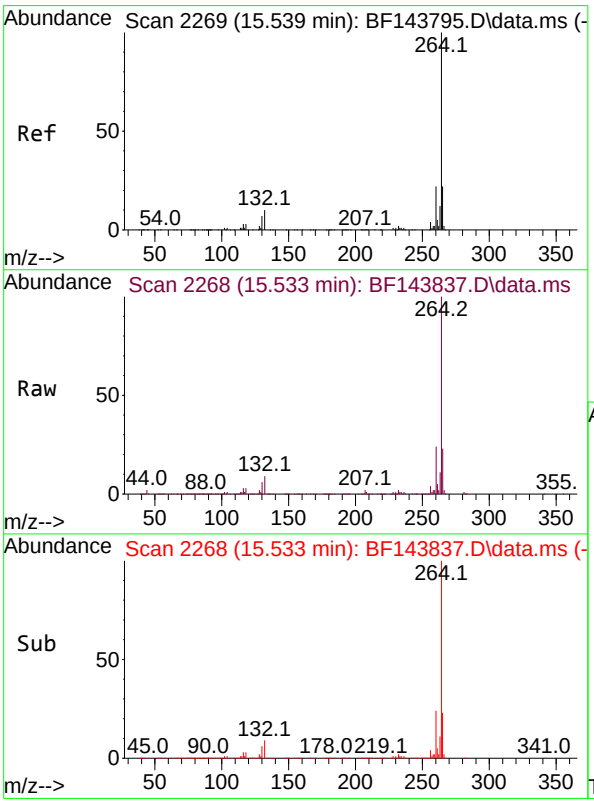
#79
Terphenyl-d14
Concen: 105.129 ng
RT: 13.004 min Scan# 18
Delta R.T. -0.000 min
Lab File: BF143837.D
Acq: 30 Sep 2025 17:06

Instrument :
BNA_F
ClientSampleId :
EME-TS14-02

Tgt Ion:244 Resp: 2676610

Ion	Ratio	Lower	Upper
244	100		
212	4.8	3.9	5.9
122	5.9	5.6	8.4

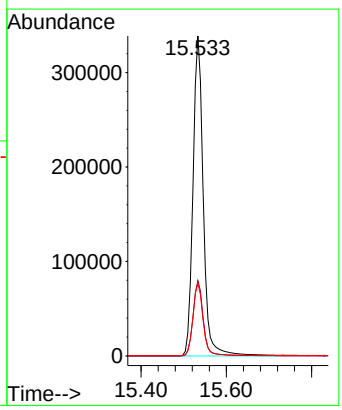




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143837.D
Acq: 30 Sep 2025 17:06

Tgt Ion:264 Resp: 569467

Ion	Ratio	Lower	Upper
264	100		
260	23.5	17.9	26.9
265	22.7	17.7	26.5



CALIBRATION SUMMARY

Response Factor Report BNA_F

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 24 05:00:00 2025
Response Via : Initial Calibration

Calibration Files
2.5 =BF143791.D 5 =BF143792.D 10 =BF143793.D 20 =BF143794.D 40 =BF143795.D 50 =BF143796.D 60 =BF143797.D 80 =BF1437
98.D

		Compound	2.5	5	10	20	40	50	60	80	Avg	%RSD
1)	I	1,4-Dichlorobenzen...	----------ISTD----------									
2)		1,4-Dioxane		0.594	0.575	0.598	0.640	0.558	0.582	0.577	0.589	4.40
3)		Pyridine		1.585	1.522	1.624	1.724	1.535	1.603	1.541	1.590	4.40
4)		n-Nitrosodimet...			0.744	0.812	0.851	0.775	0.818	0.785	0.797	4.71
5)	S	2-Fluorophenol			1.258	1.326	1.329	1.156	1.193	1.124	1.231	7.08
6)		Aniline		2.283	2.120	2.158	2.145	1.940	1.978	1.826	2.064	7.55
7)	S	Phenol-d6			1.507	1.530	1.523	1.336	1.371	1.267	1.422	7.90
8)		2-Chlorophenol		1.304	1.254	1.329	1.335	1.209	1.244	1.146	1.260	5.45
9)		Benzaldehyde			1.066	0.952	1.467	1.327	1.538	1.123	1.246	18.81
10)	C	Phenol		1.762	1.708	1.737	1.748	1.534	1.622	1.463	1.653	7.07
11)		bis(2-Chloroet...		1.387	1.321	1.347	1.367	1.223	1.270	1.156	1.296	6.47
12)		1,3-Dichlorobe...		1.622	1.493	1.556	1.544	1.345	1.385	1.297	1.463	8.34
13)	C	1,4-Dichlorobe...		1.634	1.496	1.549	1.537	1.339	1.380	1.287	1.460	8.68
14)		1,2-Dichlorobe...		1.558	1.407	1.465	1.449	1.277	1.309	1.215	1.383	8.73
15)		Benzyl Alcohol			1.022	1.074	1.088	1.004	1.042	0.936	1.028	5.32
16)		2,2'-oxybis(1-...		3.320	3.136	3.224	3.231	2.896	2.966	2.738	3.073	6.87
17)		2-Methylphenol		1.033	0.990	1.009	1.021	0.938	0.959	0.880	0.976	5.52
18)		Hexachloroethane		0.555	0.512	0.543	0.543	0.482	0.493	0.468	0.514	6.60
19)	P	n-Nitroso-di-n...	1.078	0.991	0.932	0.926	0.914	0.842	0.869	0.764	0.915	10.34
20)		3+4-Methylphenols			1.292	1.256	1.274	1.137	1.147	1.023	1.188	8.78
21)	I	Naphthalene-d8	----------ISTD----------									
22)		Acetophenone		0.500	0.466	0.468	0.463	0.401	0.404	0.373	0.439	10.54
23)	S	Nitrobenzene-d5			0.309	0.339	0.353	0.322	0.330	0.308	0.327	5.40
24)		Nitrobenzene		0.362	0.354	0.369	0.389	0.357	0.361	0.342	0.362	3.96
25)		Isophorone		0.667	0.636	0.649	0.673	0.624	0.634	0.575	0.637	5.11
26)	C	2-Nitrophenol		0.089	0.104	0.125	0.148	0.150	0.156	0.150	0.132	20.10
27)		2,4-Dimethylph...		0.292	0.280	0.291	0.303	0.280	0.286	0.261	0.285	4.65
28)		bis(2-Chloroet...		0.455	0.430	0.430	0.437	0.393	0.392	0.360	0.414	8.03
29)	C	2,4-Dichloroph...		0.277	0.286	0.288	0.298	0.273	0.278	0.260	0.280	4.37
30)		1,2,4-Trichlor...		0.314	0.288	0.304	0.309	0.275	0.279	0.264	0.291	6.52
31)		Naphthalene		1.058	1.021	1.020	1.003	0.887	0.888	0.826	0.957	9.26
32)		Benzoic acid			0.124	0.091	0.140	0.148	0.159	0.161	0.137	19.26
33)		4-Chloroaniline		0.360	0.347	0.353	0.355	0.323	0.323	0.295	0.336	7.04
34)	C	Hexachlorobuta...		0.227	0.219	0.223	0.233	0.206	0.210	0.199	0.217	5.64
35)		Caprolactam			0.066	0.069	0.075	0.074	0.076	0.070	0.072	5.47
36)	C	4-Chloro-3-met...		0.271	0.260	0.271	0.276	0.261	0.262	0.238	0.263	4.81
37)		2-Methylnaphth...		0.685	0.650	0.643	0.635	0.568	0.572	0.521	0.611	9.49
38)		1-Methylnaphth...		0.656	0.618	0.610	0.612	0.550	0.550	0.496	0.584	9.36

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF092325.M

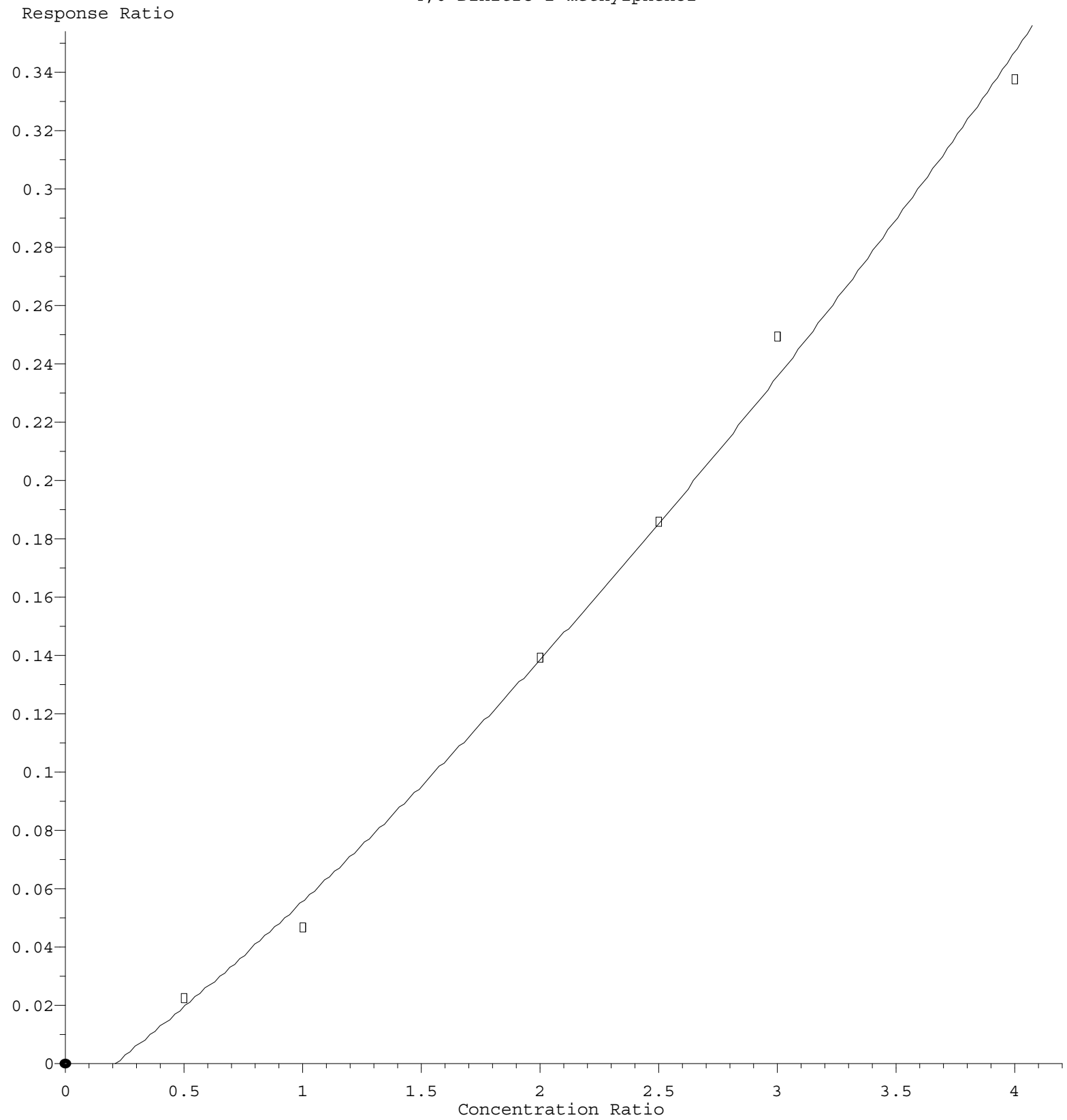
39)	I	Acenaphthene-d10	----------ISTD----------								
40)		1,2,4,5-Tetrac...	0.657	0.634	0.636	0.628	0.559	0.562	0.549	0.604	7.43
41)	P	Hexachlorocycl...		0.336	0.371	0.418	0.382	0.401	0.387	0.383	7.32
42)	S	2,4,6-Tribromo...		0.303	0.324	0.328	0.281	0.275	0.266	0.296	8.83
43)	C	2,4,6-Trichlor...	0.344	0.358	0.386	0.422	0.379	0.392	0.365	0.378	6.71
44)		2,4,5-Trichlor...	0.371	0.391	0.419	0.423	0.380	0.402	0.381	0.395	5.09
45)	S	2-Fluorobiphenyl		1.476	1.460	1.351	1.154	1.153	1.096	1.282	13.12
46)		1,1'-Biphenyl	1.608	1.541	1.564	1.495	1.331	1.326	1.269	1.448	9.37
47)		2-Chloronaphth...	1.283	1.223	1.243	1.215	1.077	1.080	1.036	1.165	8.38
48)		2-Nitroaniline	0.241	0.305	0.355	0.400	0.380	0.400	0.386	0.352	16.77
49)		Acenaphthylene	1.729	1.659	1.700	1.691	1.499	1.513	1.440	1.604	7.27
50)		Dimethylphthalate	1.275	1.233	1.252	1.286	1.173	1.191	1.122	1.219	4.87
51)		2,6-Dinitrotol...	0.138	0.161	0.198	0.228	0.224	0.231	0.221	0.200	18.41
52)	C	Acenaphthene	1.134	1.121	1.123	1.109	0.974	0.976	0.953	1.056	7.87
53)		3-Nitroaniline	0.171	0.210	0.245	0.283	0.259	0.267	0.264	0.243	16.09
54)	P	2,4-Dinitrophenol		0.052	0.040	0.063	0.066	0.076	0.084	0.064	25.20
55)		Dibenzofuran	1.649	1.551	1.590	1.561	1.377	1.392	1.329	1.493	8.32
56)	P	4-Nitrophenol		0.197	0.169	0.208	0.193	0.197	0.210	0.196	7.39
57)		2,4-Dinitrotol...	0.151	0.210	0.254	0.307	0.295	0.308	0.300	0.261	23.18
58)		Fluorene	1.275	1.210	1.190	1.147	1.005	0.986	0.956	1.110	11.33
59)		2,3,4,6-Tetrac...	0.272	0.309	0.349	0.373	0.355	0.361	0.352	0.339	10.45
60)		Diethylphthalate	1.158	1.170	1.174	1.211	1.100	1.109	1.066	1.141	4.44
61)		4-Chlorophenyl...	0.621	0.592	0.601	0.590	0.528	0.524	0.504	0.566	8.09
62)		4-Nitroaniline	0.162	0.204	0.228	0.264	0.242	0.243	0.255	0.228	15.32
63)		Azobenzene	1.260	1.221	1.246	1.279	1.148	1.163	1.101	1.203	5.49
64)	I	Phenanthrene-d10	----------ISTD----------								
65)		4,6-Dinitro-2-...		0.045	0.047	0.070	0.074	0.083	0.084	0.067	25.99
66)	c	n-Nitrosodiphe...	0.707	0.675	0.688	0.682	0.621	0.637	0.594	0.658	6.27
67)		4-Bromophenyl-...	0.344	0.333	0.349	0.361	0.334	0.342	0.324	0.341	3.52
68)		Hexachlorobenzene	0.492	0.470	0.488	0.492	0.447	0.461	0.437	0.470	4.80
69)		Atrazine	0.178	0.191	0.198	0.211	0.186	0.187	0.183	0.190	5.63
70)	C	Pentachlorophenol		0.180	0.216	0.256	0.239	0.254	0.259	0.234	13.17
71)		Phenanthrene	1.145	1.066	1.071	1.082	0.948	0.954	0.921	1.027	8.27
72)		Anthracene	1.096	1.069	1.088	1.083	0.965	0.963	0.945	1.030	6.65
73)		Carbazole	0.916	0.931	0.949	0.976	0.839	0.846	0.847	0.901	6.23
74)		Di-n-butylphth...	0.940	1.008	1.075	1.157	1.019	1.019	1.031	1.036	6.45
75)	C	Fluoranthene	1.019	1.046	1.099	1.144	0.953	0.956	1.012	1.033	6.83
76)	I	Chrysene-d12	----------ISTD----------								
77)		Benzidine		0.438	0.444	0.511	0.571	0.553	0.407	0.487	13.78
78)		Pyrene	1.038	0.982	0.991	1.005	0.990	1.011	0.867	0.983	5.54
79)	S	Terphenyl-d14		1.044	1.013	1.022	0.981	0.989	0.852	0.983	6.95
80)		Butylbenzylpht...	0.251	0.298	0.335	0.391	0.367	0.381	0.358	0.340	14.74
81)		Benzo(a)anthra...	1.109	1.081	1.083	1.148	1.040	1.065	0.995	1.074	4.55
82)		3,3'-Dichlorob...		0.426	0.465	0.497	0.459	0.480	0.466	0.465	5.06
83)		Chrysene	1.041	0.985	0.996	1.018	0.909	0.941	0.916	0.972	5.25
84)		Bis(2-ethylhex...	0.428	0.477	0.514	0.558	0.505	0.516	0.492	0.499	8.01
85)	c	Di-n-octyl pht...		0.767	0.877	1.013	0.902	0.937	0.930	0.905	9.00

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF092325.M

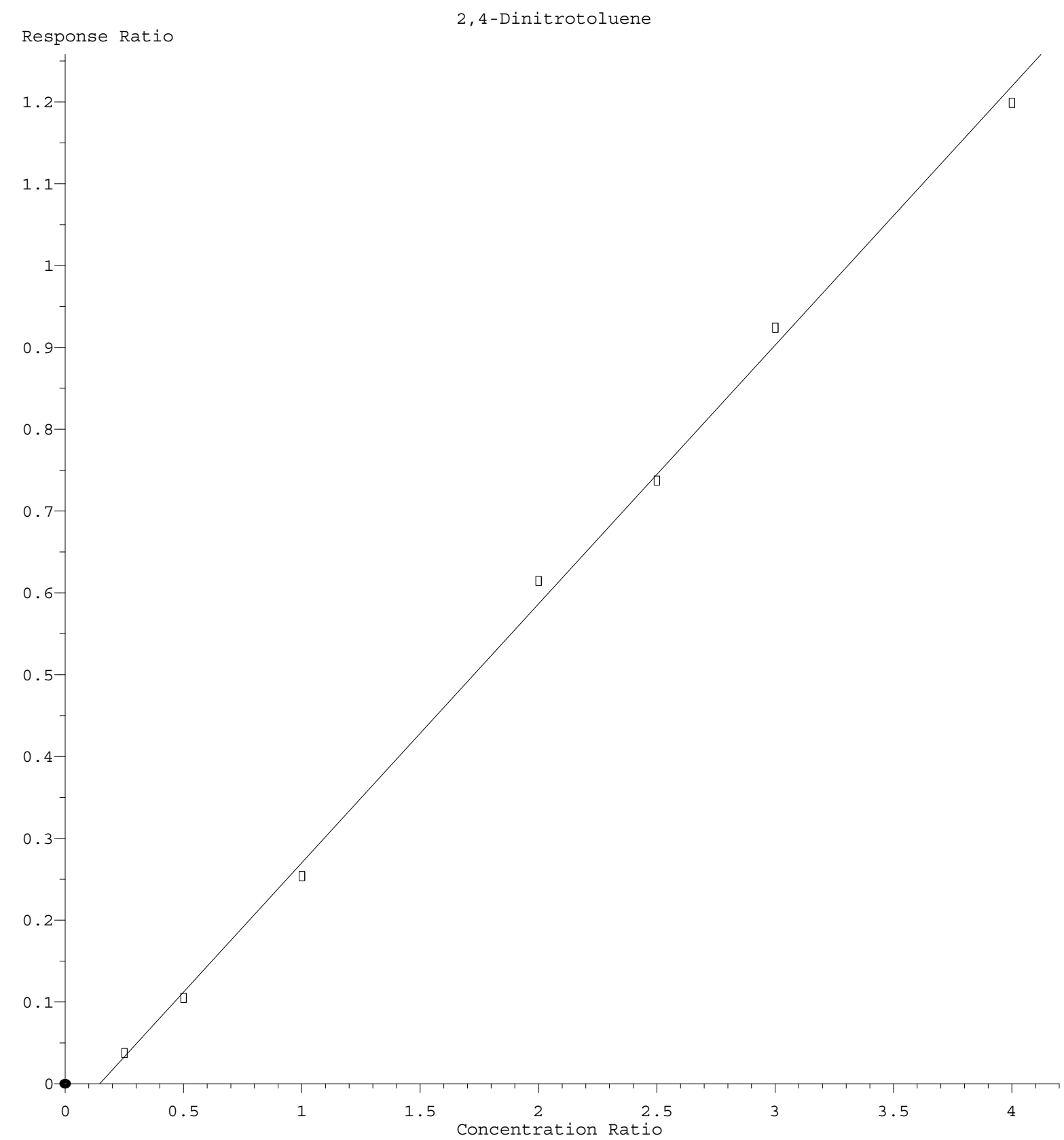
86)	I	Perylene-d12	----------ISTD----------							
87)		Indeno(1,2,3-c...	1.483	1.426	1.580	1.608	1.509	1.548	1.468	1.517	4.26
88)		Benzo(b)fluora...	0.987	1.004	1.029	1.104	1.002	1.002	1.000	1.018	3.91
89)		Benzo(k)fluora...	1.061	1.004	1.079	1.089	0.996	1.029	0.905	1.023	6.18
90)	C	Benzo(a)pyrene	0.928	0.920	0.989	1.027	0.949	0.971	0.918	0.957	4.25
91)		Dibenzo(a,h)an...	1.207	1.187	1.302	1.332	1.237	1.257	1.166	1.241	4.87
92)		Benzo(g,h,i)pe...	1.134	1.116	1.234	1.279	1.200	1.244	1.168	1.196	5.01

(#) = Out of Range

4,6-Dinitro-2-methylphenol

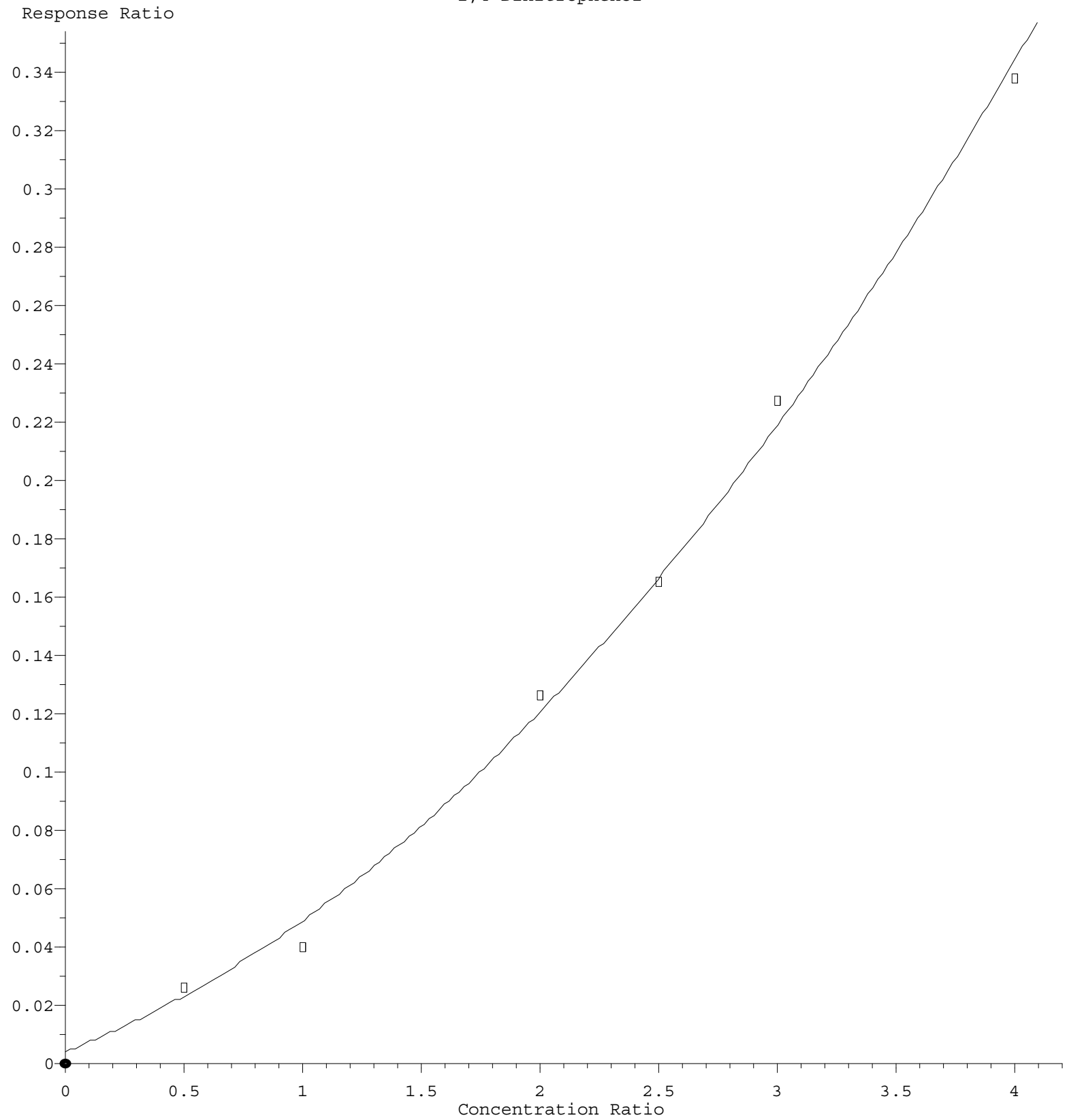


R = 7.095e-003 A*A + 6.161e-002 A - 1.313e-002
Coef of Det (r^2) = 0.995418 Curve Fit: Quadratic w(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF092325.M
Calibration Table Last Updated: Wed Sep 24 05:00:00 2025

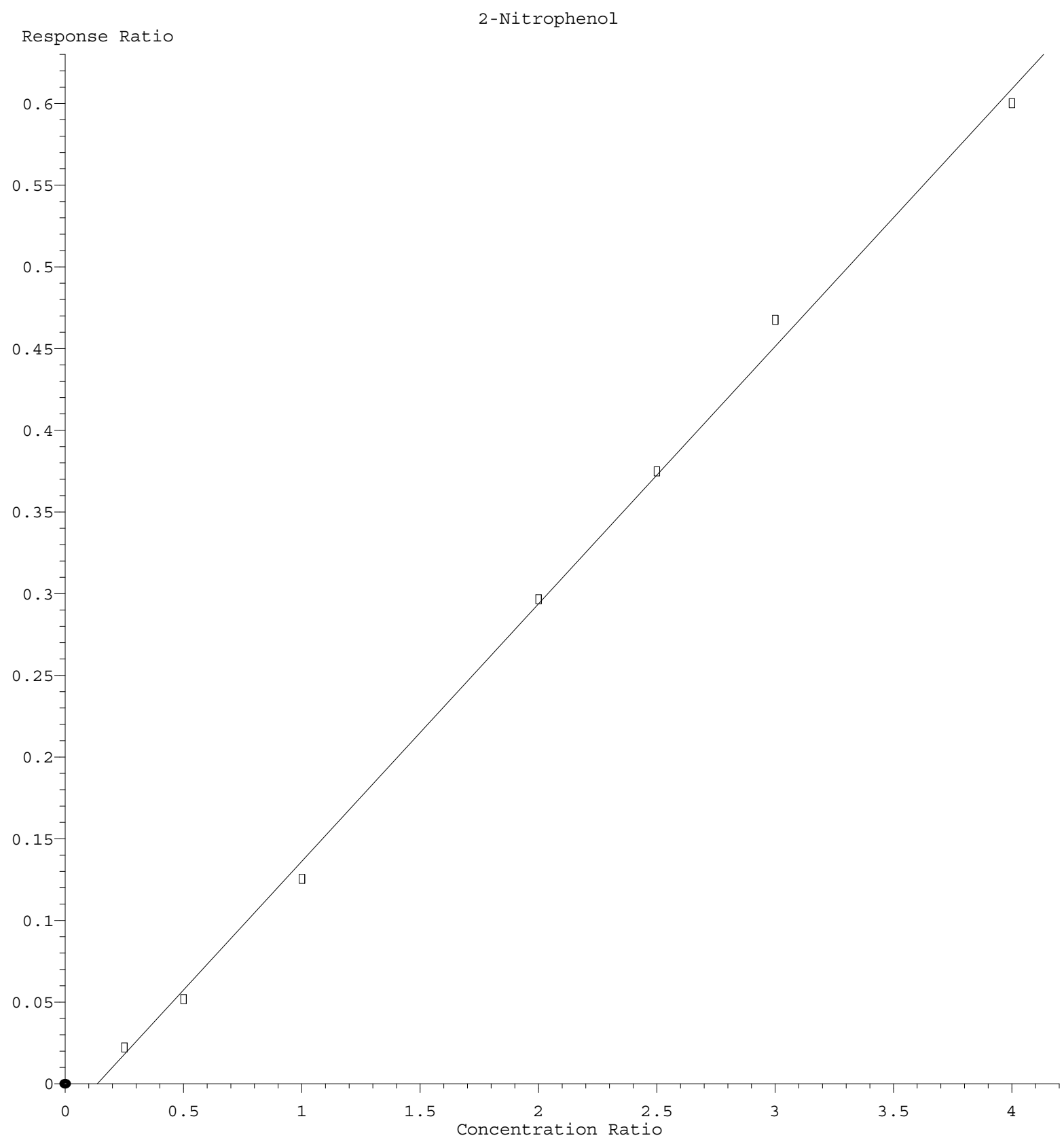


Response = 3.165e-001 * Amt - 4.621e-002
Coef of Det (r^2) = 0.998498 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF092325.M
Calibration Table Last Updated: Wed Sep 24 05:00:00 2025

2,4-Dinitrophenol



R = 1.334e-002 A*A + 3.164e-002 A + 4.049e-003
Coef of Det (r^2) = 0.995804 Curve Fit: Quadratic w(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF092325.M
Calibration Table Last Updated: Wed Sep 24 05:00:00 2025



Response = 1.576e-001 * Amt - 2.138e-002
Coef of Det (r^2) = 0.998054 Curve Fit: wlr(1/a)
Method Name: Z:\svoasrv\HPCHEM1\BNA F\Methods\8270-BF092325.M
Calibration Table Last Updated: Wed Sep 24 05:00:00 2025

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143791.D
Acq On : 23 Sep 2025 10:28
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Sep 23 17:06:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

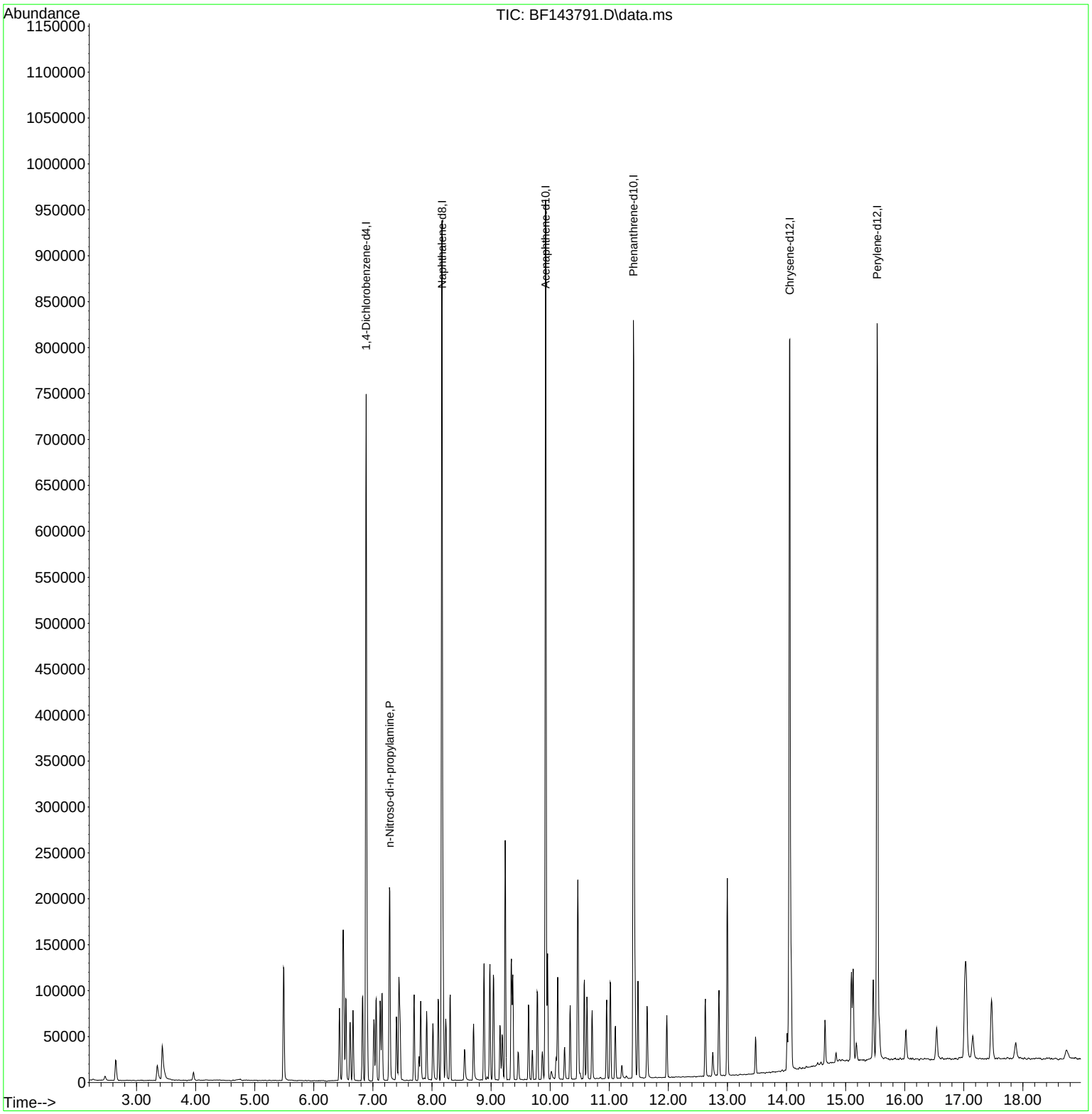
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	142727	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	546391	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	280335	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	422227	20.000	ng	0.00
76) Chrysene-d12	14.057	240	419162	20.000	ng	0.00
86) Perylene-d12	15.533	264	547725	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.286	70	19227	2.946	ng	96

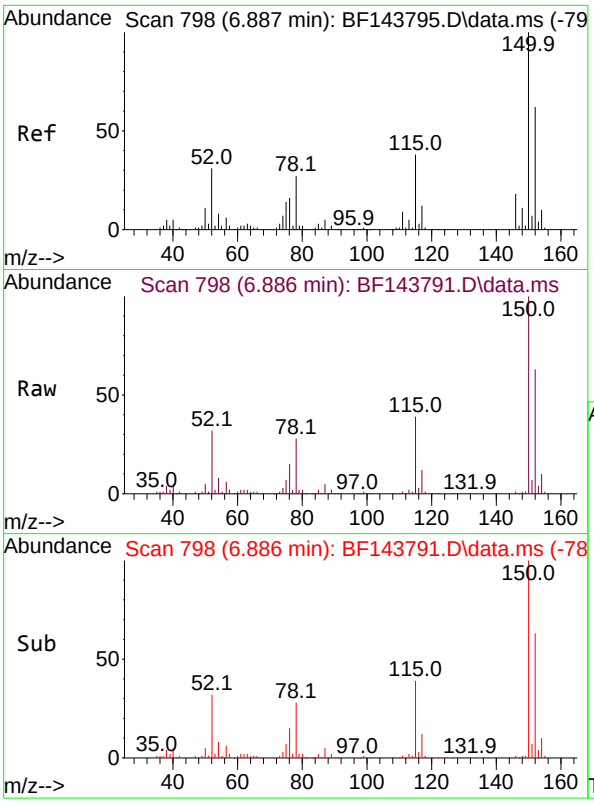
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143791.D
Acq On : 23 Sep 2025 10:28
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Sep 23 17:06:01 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration



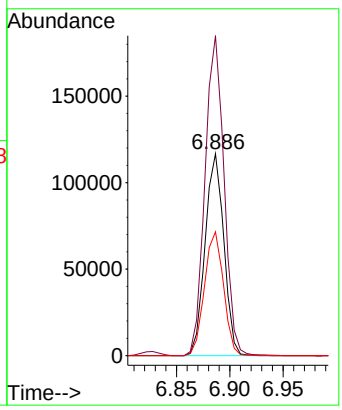


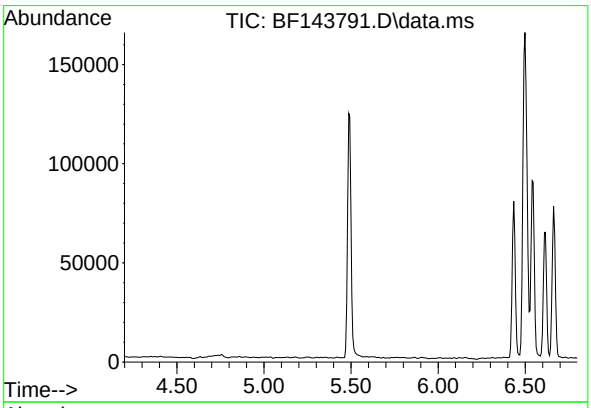
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 79
Delta R.T. -0.001 min
Lab File: BF143791.D
Acq: 23 Sep 2025 10:28

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:152 Resp: 142727

Ion	Ratio	Lower	Upper
152	100		
150	158.5	129.6	194.4
115	61.3	49.0	73.4



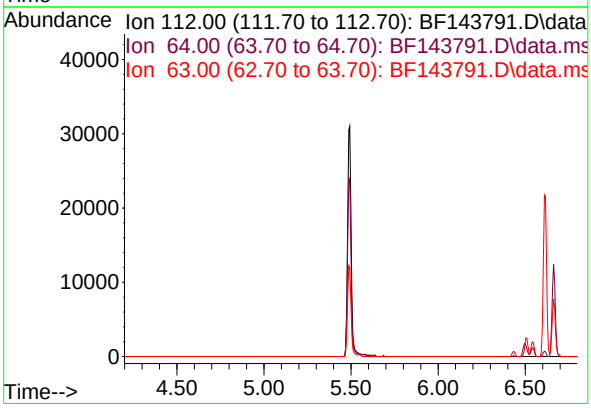


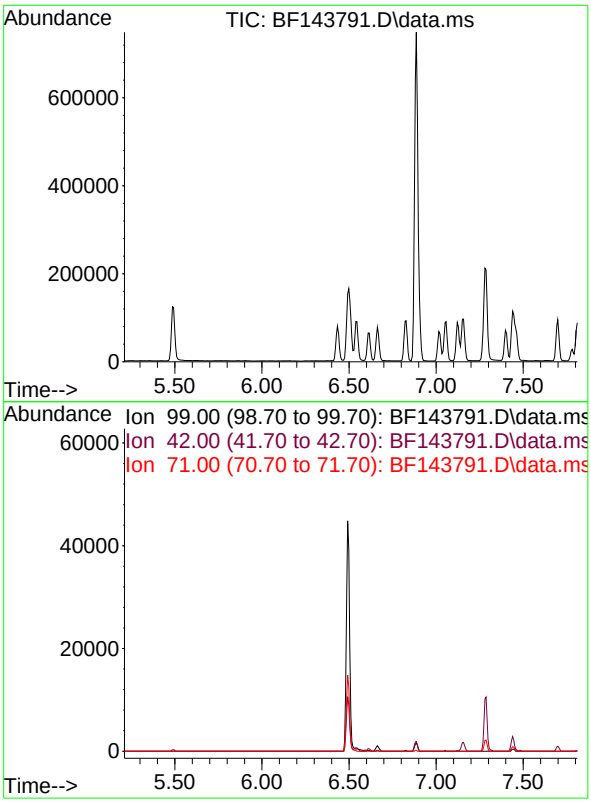
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.50 min

Lab File: BF143791.D
Acq: 23 Sep 2025 10:28

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	78.7
63	40.8





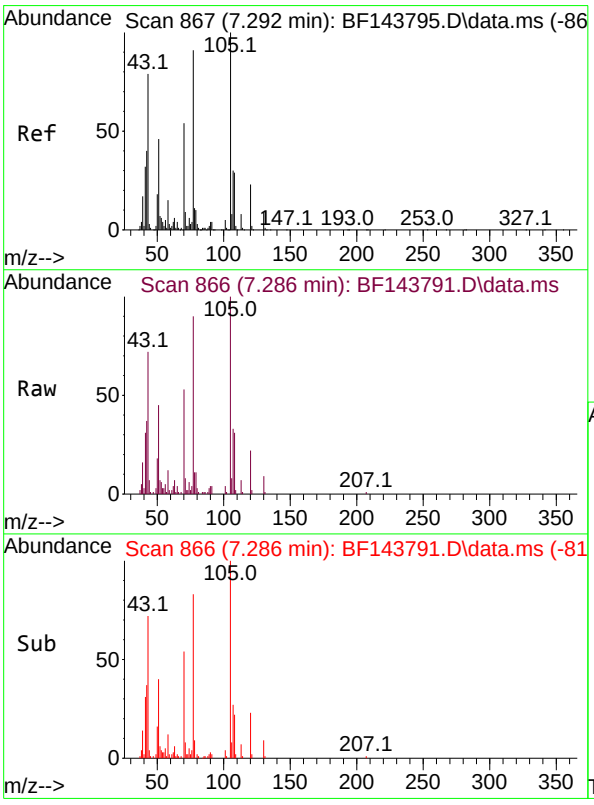
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.51 min

Lab File: BF143791.D
Acq: 23 Sep 2025 10:28

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 99

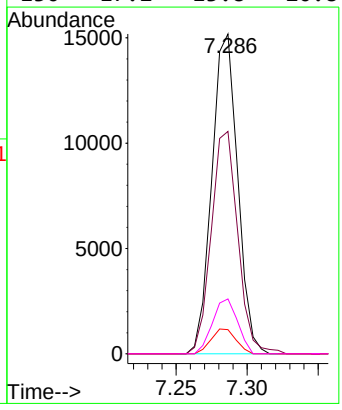
Sig	Exp Ratio
99	100
42	23.3
71	33.7

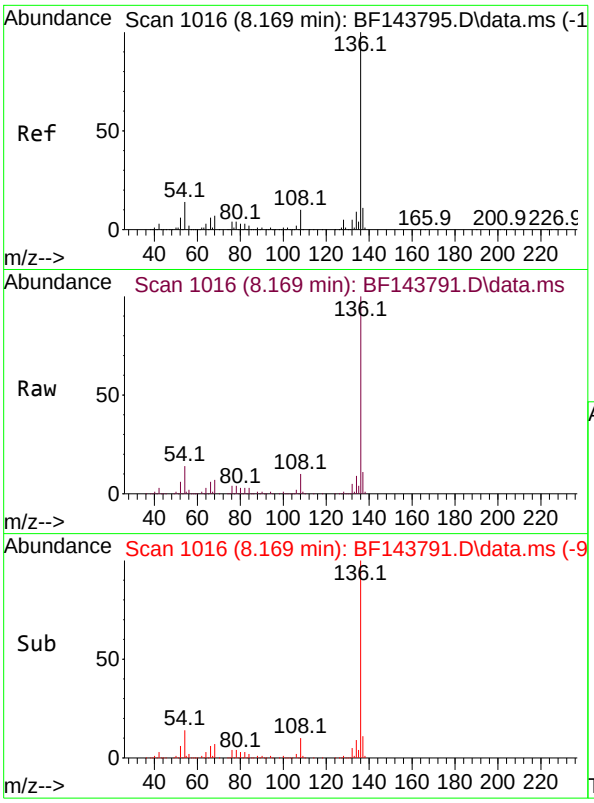


#19
n-Nitroso-di-n-propylamine
Concen: 2.946 ng
RT: 7.286 min Scan# 866
Delta R.T. -0.018 min
Lab File: BF143791.D
Acq: 23 Sep 2025 10:28

Tgt Ion: 70 Resp: 19227

Ion	Ratio	Lower	Upper
70	100		
42	69.5	59.4	89.0
101	7.6	7.1	10.7
130	17.2	13.8	20.8



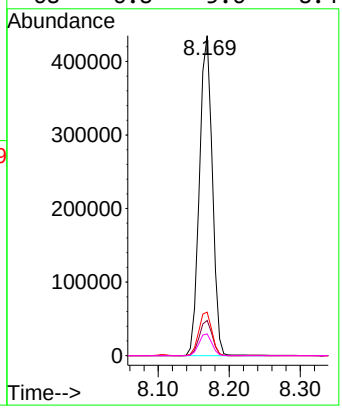


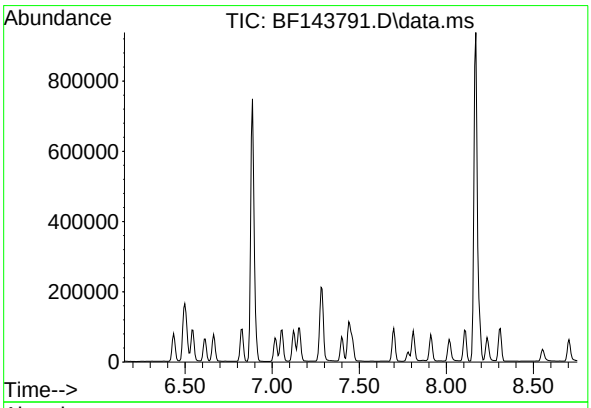
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 10
Delta R.T. -0.000 min
Lab File: BF143791.D
Acq: 23 Sep 2025 10:28

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:136 Resp: 546391

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	13.6	11.2	16.8
68	6.8	5.6	8.4



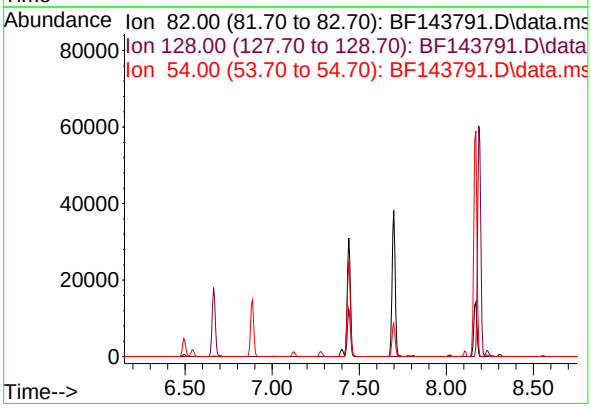


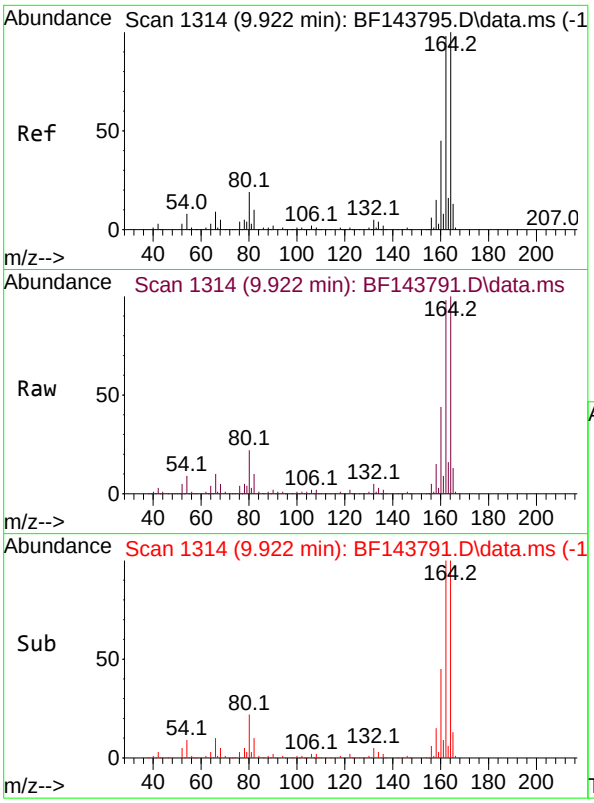
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.45 min

Lab File: BF143791.D
Acq: 23 Sep 2025 10:28

Tgt Ion: 82

Sig	Exp Ratio
82	100
128	41.6
54	80.3



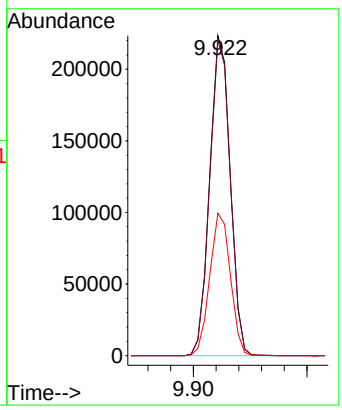


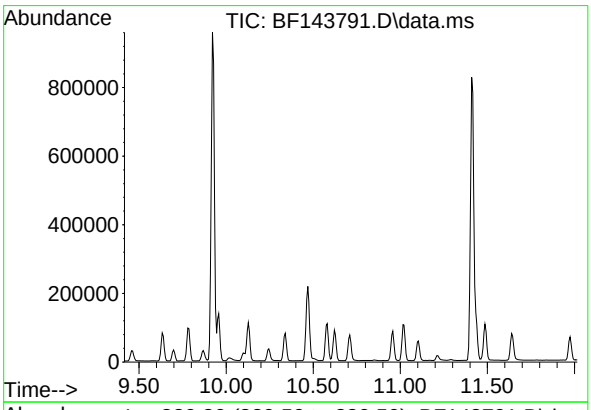
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143791.D
Acq: 23 Sep 2025 10:28

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:164 Resp: 280335

Ion	Ratio	Lower	Upper
164	100		
162	98.5	78.8	118.2
160	44.5	35.8	53.6



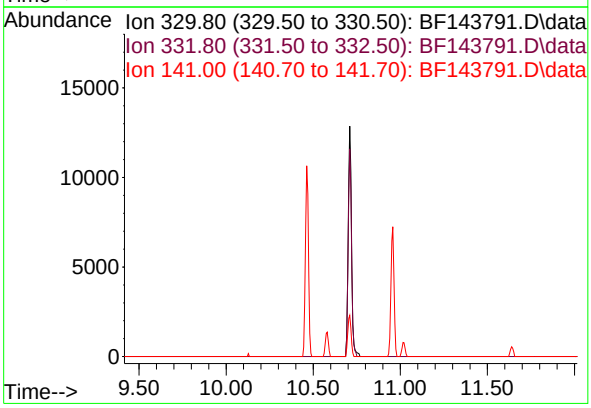


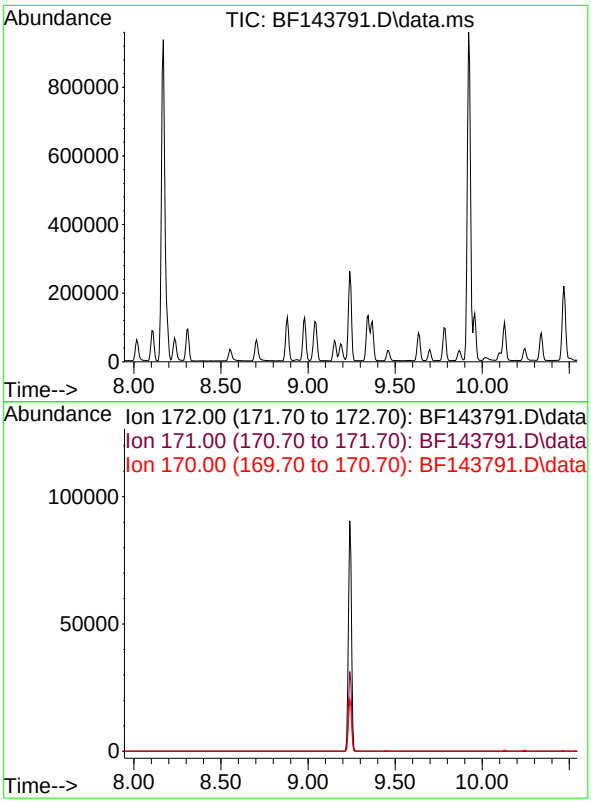
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.72 min

Lab File: BF143791.D
Acq: 23 Sep 2025 10:28

Tgt Ion: 330

Sig	Exp Ratio
330	100
332	93.4
141	17.9





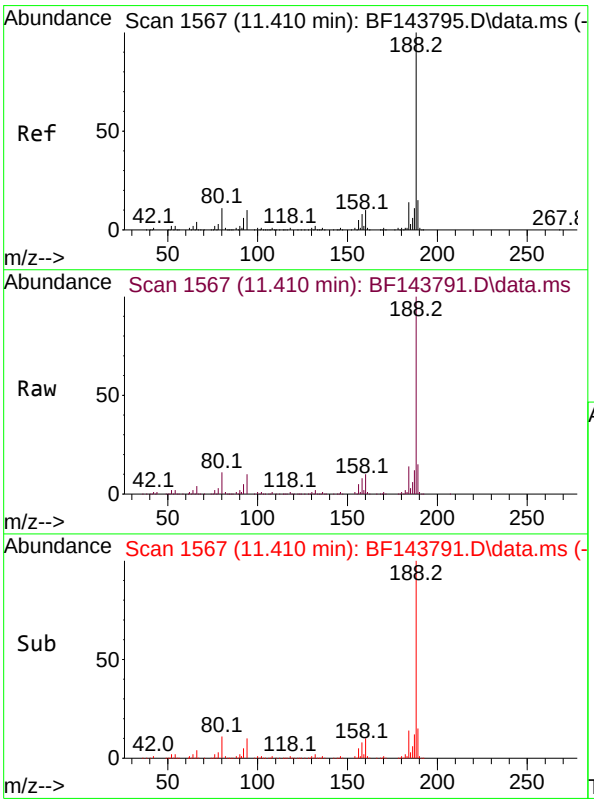
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.25 min

Lab File: BF143791.D
Acq: 23 Sep 2025 10:28

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion: 172

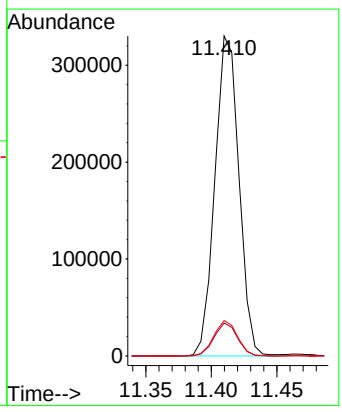
Sig	Exp Ratio
172	100
171	34.9
170	23.9

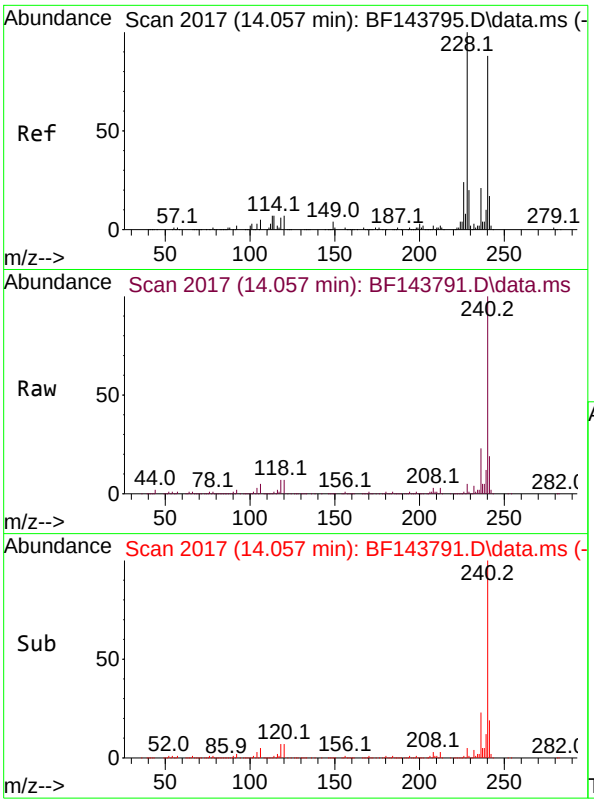


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF143791.D
Acq: 23 Sep 2025 10:28

Tgt Ion:188 Resp: 422227

Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.2	12.2
80	11.0	8.6	12.8



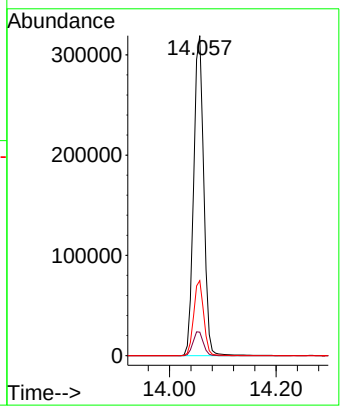


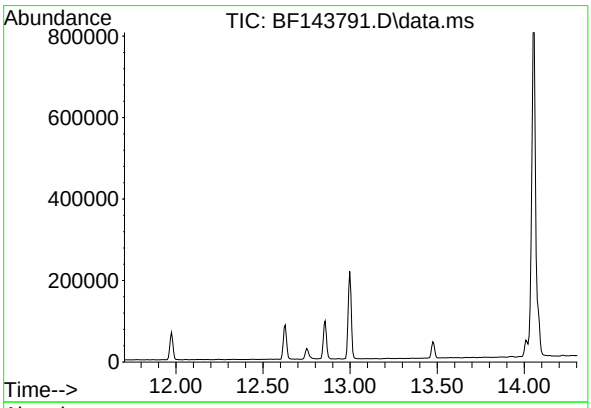
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2(
Delta R.T. -0.006 min
Lab File: BF143791.D
Acq: 23 Sep 2025 10:28

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:240 Resp: 419162

Ion	Ratio	Lower	Upper
240	100		
120	7.3	6.2	9.4
236	23.4	19.4	29.2



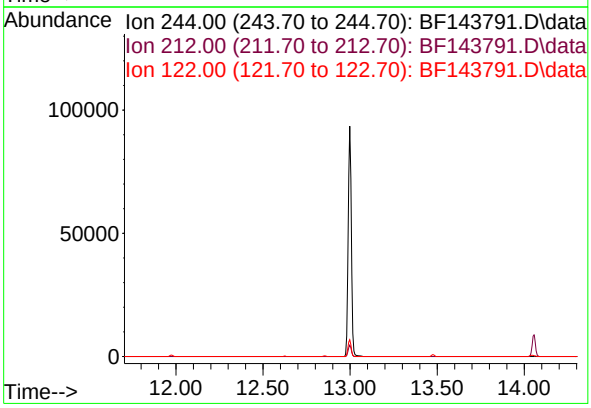


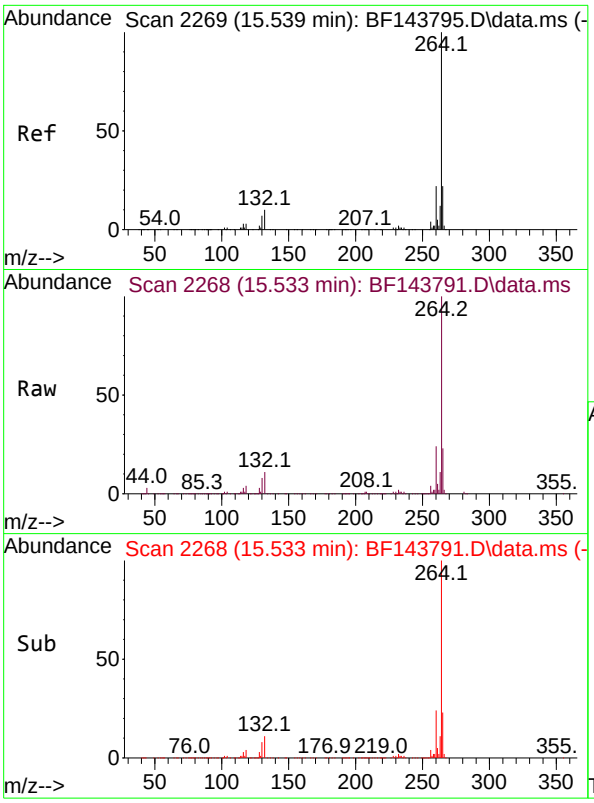
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 13.00 min

Lab File: BF143791.D
Acq: 23 Sep 2025 10:28

Tgt Ion: 244

Sig	Exp Ratio
244	100
212	4.9
122	7.0



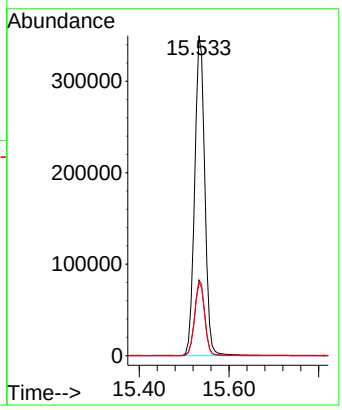


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143791.D
Acq: 23 Sep 2025 10:28

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Tgt Ion:264 Resp: 547725

Ion	Ratio	Lower	Upper
264	100		
260	23.6	17.9	26.9
265	22.8	17.7	26.5



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143792.D
Acq On : 23 Sep 2025 10:58
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Sep 24 04:31:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 17:50:26 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	137641	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	513746	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	252917	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	379147	20.000	ng	0.00
76) Chrysene-d12	14.057	240	398321	20.000	ng	0.00
86) Perylene-d12	15.533	264	555053	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	0.000	112	0d	0.000	ng	
7) Phenol-d6	0.000	99	0d	0.000	ng	
23) Nitrobenzene-d5	0.000	82	0d	0.000	ng	
42) 2,4,6-Tribromophenol	0.000	330	0d	0.000	ng	
45) 2-Fluorobiphenyl	0.000	172	0d	0.000	ng	
79) Terphenyl-d14	0.000	244	0d	0.000	ng	
Target Compounds						Qvalue
2) 1,4-Dioxane	2.640	88	20444	5.042	ng	99
3) Pyridine	3.416	79	54556	4.984	ng	97
6) Aniline	6.545	93	78570	5.530	ng	97
8) 2-Chlorophenol	6.663	128	44880	5.175	ng	99
10) Phenol	6.510	94	60619	5.328	ng	98
11) bis(2-Chloroethyl)ether	6.616	93	47743	5.353	ng	97
12) 1,3-Dichlorobenzene	6.828	146	55825	5.544	ng	99
13) 1,4-Dichlorobenzene	6.904	146	56211	5.594	ng	100
14) 1,2-Dichlorobenzene	7.057	146	53628	5.635	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.157	45	114228	5.401	ng	99
17) 2-Methylphenol	7.122	107	35529	5.291	ng	98
18) Hexachloroethane	7.398	117	19083	5.400	ng	97
19) n-Nitroso-di-n-propyla...	7.286	70	34084	5.415	ng	99
22) Acetophenone	7.286	105	64220	5.691	ng	99
24) Nitrobenzene	7.457	77	46458	4.994	ng	98
25) Isophorone	7.698	82	85608	5.234	ng	99
26) 2-Nitrophenol	7.781	139	11396	5.528	ng	97
27) 2,4-Dimethylphenol	7.810	122	37440	5.122	ng	100
28) bis(2-Chloroethoxy)met...	7.910	93	58456	5.501	ng	98
29) 2,4-Dichlorophenol	8.016	162	35586	4.947	ng	98
30) 1,2,4-Trichlorobenzene	8.110	180	40333	5.403	ng	99
31) Naphthalene	8.186	128	135838	5.523	ng	100
33) 4-Chloroaniline	8.233	127	46191	5.345	ng	98
34) Hexachlorobutadiene	8.310	225	29187	5.245	ng	99
36) 4-Chloro-3-methylphenol	8.704	107	34756	5.152	ng	95
37) 2-Methylnaphthalene	8.880	142	88002	5.612	ng	100
38) 1-Methylnaphthalene	8.980	142	84197	5.609	ng	98
40) 1,2,4,5-Tetrachloroben...	9.045	216	41527	5.441	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	21768	4.555	ng	97
44) 2,4,5-Trichlorophenol	9.186	196	23454	4.692	ng	96
46) 1,1'-Biphenyl	9.345	154	101651	5.552	ng	100
47) 2-Chloronaphthalene	9.369	162	81117	5.504	ng	99
48) 2-Nitroaniline	9.457	65	15262	3.427	ng	93
49) Acenaphthylene	9.786	152	109327	5.389	ng	99
50) Dimethylphthalate	9.633	163	80614	5.229	ng	99
51) 2,6-Dinitrotoluene	9.698	165	8744	3.452	ng	95

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143792.D
Acq On : 23 Sep 2025 10:58
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Sep 24 04:31:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 17:50:26 2025
Response via : Initial Calibration

	Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
52)	Acenaphthene	9.957	154	71713	5.372	ng		97
53)	3-Nitroaniline	9.869	138	10825	3.526	ng	#	89
55)	Dibenzofuran	10.127	168	104283	5.524	ng		99
57)	2,4-Dinitrotoluene	10.098	165	9518	5.298	ng	#	84
58)	Fluorene	10.469	166	80629	5.745	ng		99
59)	2,3,4,6-Tetrachlorophenol	10.245	232	17203	4.017	ng	#	98
60)	Diethylphthalate	10.339	149	73247	5.076	ng		99
61)	4-Chlorophenyl-phenyle...	10.463	204	39239	5.487	ng		98
62)	4-Nitroaniline	10.474	138	10259	3.554	ng		96
63)	Azobenzene	10.621	77	79697	5.240	ng		98
66)	n-Nitrosodiphenylamine	10.580	169	67054	5.378	ng		99
67)	4-Bromophenyl-phenylether	10.957	248	32607	5.047	ng		97
68)	Hexachlorobenzene	11.021	284	46642	5.238	ng		100
69)	Atrazine	11.104	200	16909	4.683	ng		96
71)	Phenanthrene	11.433	178	108554	5.577	ng		98
72)	Anthracene	11.486	178	103911	5.322	ng		99
73)	Carbazole	11.639	167	86827	5.086	ng		100
74)	Di-n-butylphthalate	11.974	149	89101	4.538	ng		100
75)	Fluoranthene	12.627	202	96550	4.932	ng		99
78)	Pyrene	12.857	202	103385	5.279	ng		99
80)	Butylbenzylphthalate	13.474	149	25033	3.695	ng		97
81)	Benzo(a)anthracene	14.045	228	110473	5.163	ng		99
83)	Chrysene	14.080	228	103643	5.353	ng		99
84)	Bis(2-ethylhexyl)phtha...	14.039	149	42651	4.295	ng		98
87)	Indeno(1,2,3-cd)pyrene	17.021	276	205787	4.886	ng		98
88)	Benzo(b)fluoranthene	15.098	252	137015	4.847	ng		99
89)	Benzo(k)fluoranthene	15.127	252	147201	5.184	ng		99
90)	Benzo(a)pyrene	15.468	252	128819	4.848	ng		98
91)	Dibenzo(a,h)anthracene	17.039	278	167469	4.862	ng		99
92)	Benzo(g,h,i)perylene	17.468	276	157425	4.741	ng		99

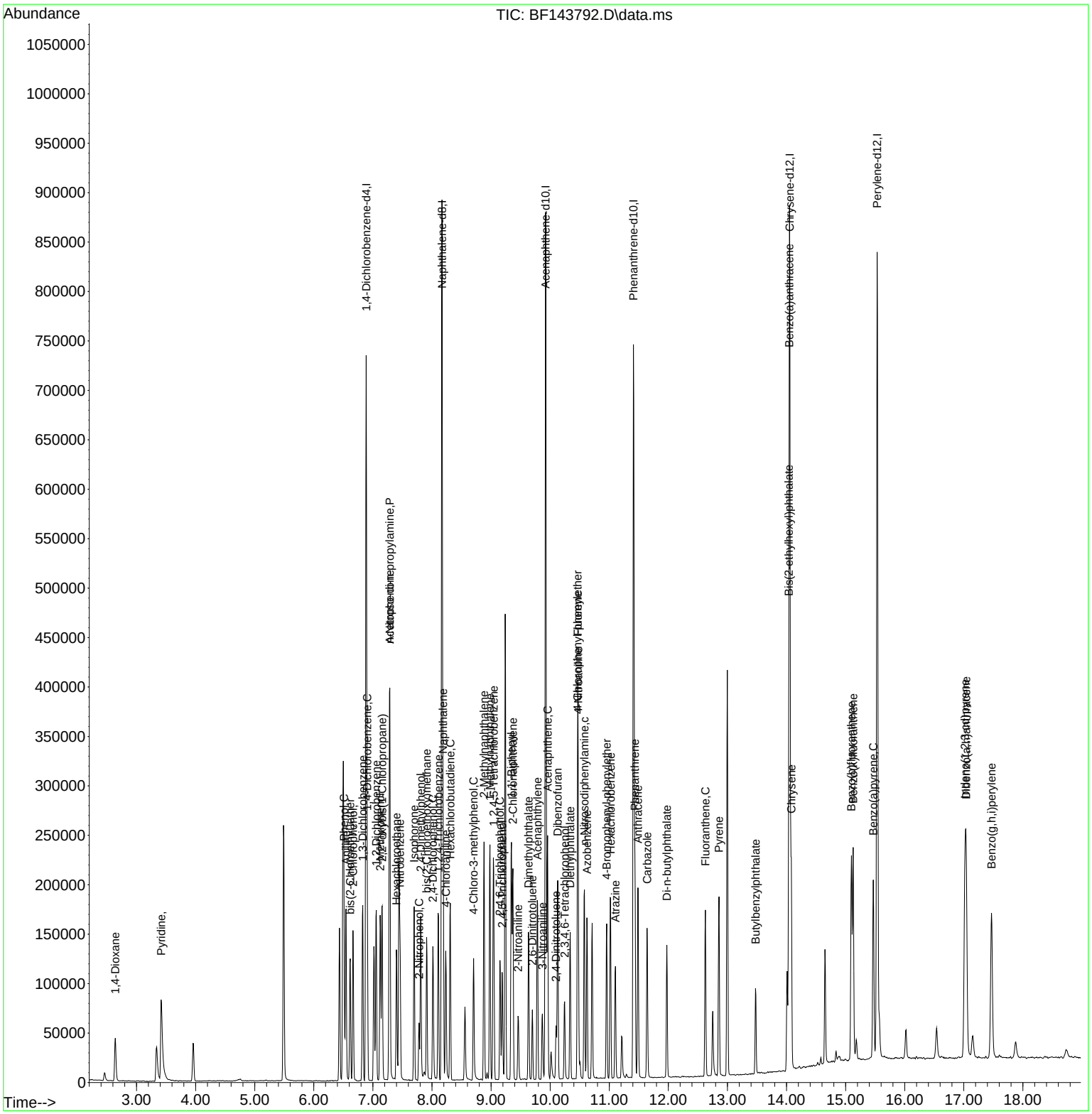
(#) = qualifier out of range (m) = manual integration (+) = signals summed

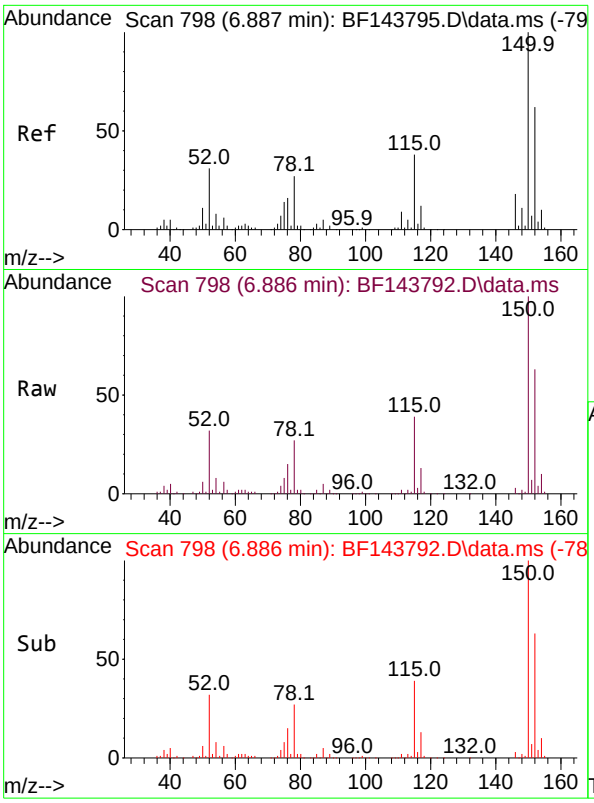
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143792.D
Acq On : 23 Sep 2025 10:58
Operator : RC/JU
Sample : SSTDICC005
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Quant Time: Sep 24 04:31:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 17:50:26 2025
Response via : Initial Calibration



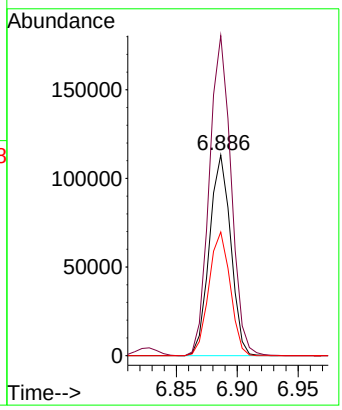


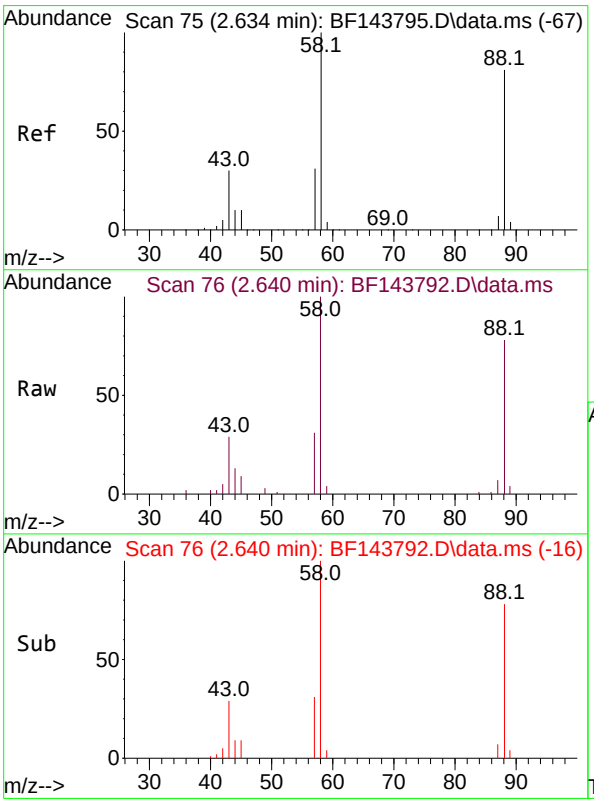
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 79
Delta R.T. -0.001 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:152 Resp: 137641

Ion	Ratio	Lower	Upper
152	100		
150	159.5	129.6	194.4
115	61.6	49.0	73.4

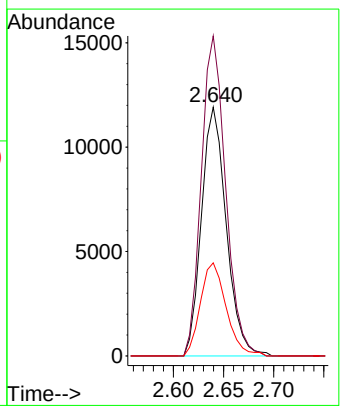


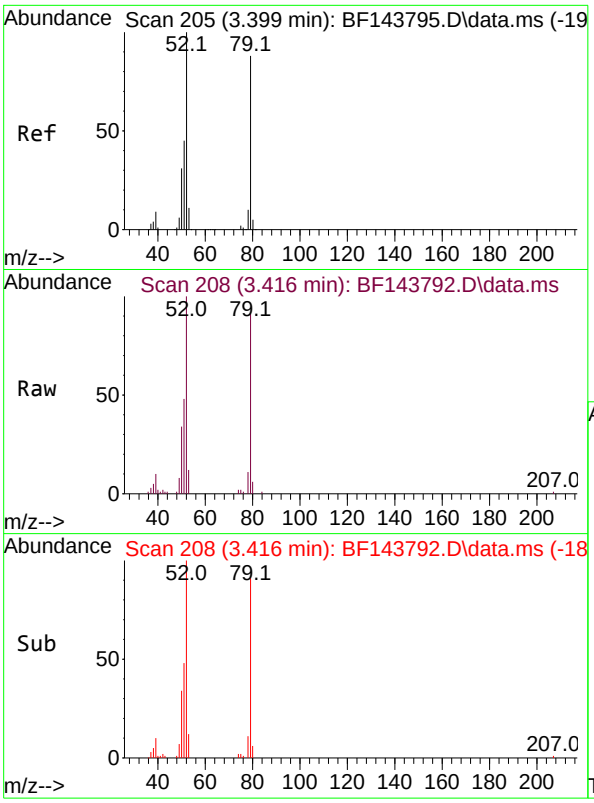


#2
1,4-Dioxane
Concen: 5.042 ng
RT: 2.640 min Scan# 76
Delta R.T. 0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion: 88 Resp: 20444

Ion	Ratio	Lower	Upper
88	100		
58	126.0	99.4	149.2
43	38.9	30.6	45.8



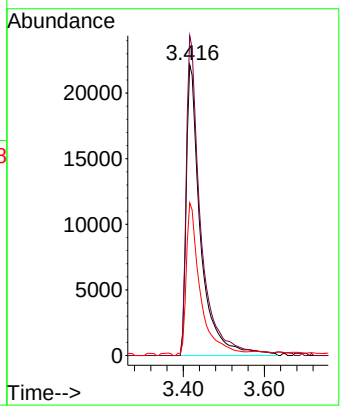


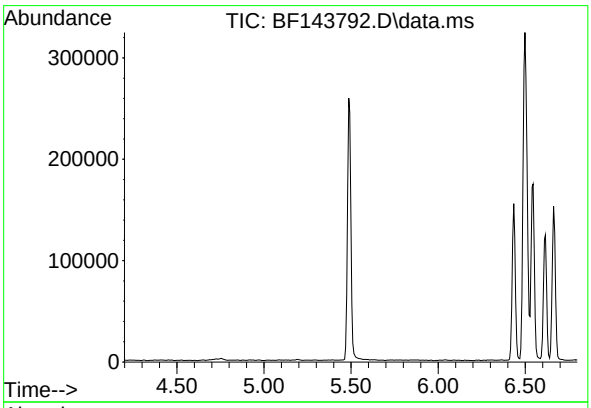
#3
Pyridine
Concen: 4.984 ng
RT: 3.416 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 79 Resp: 54556

Ion	Ratio	Lower	Upper
79	100		
52	110.0	90.5	135.7
51	52.5	40.6	61.0



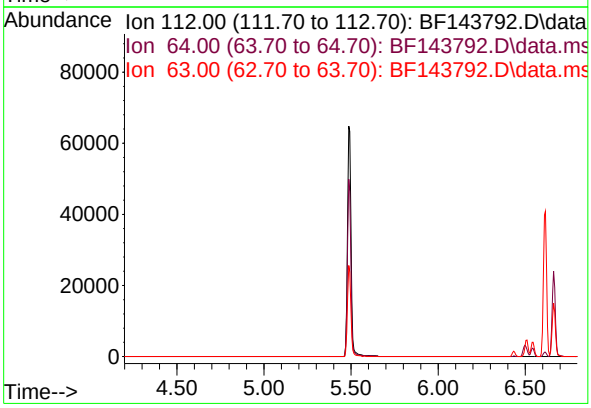


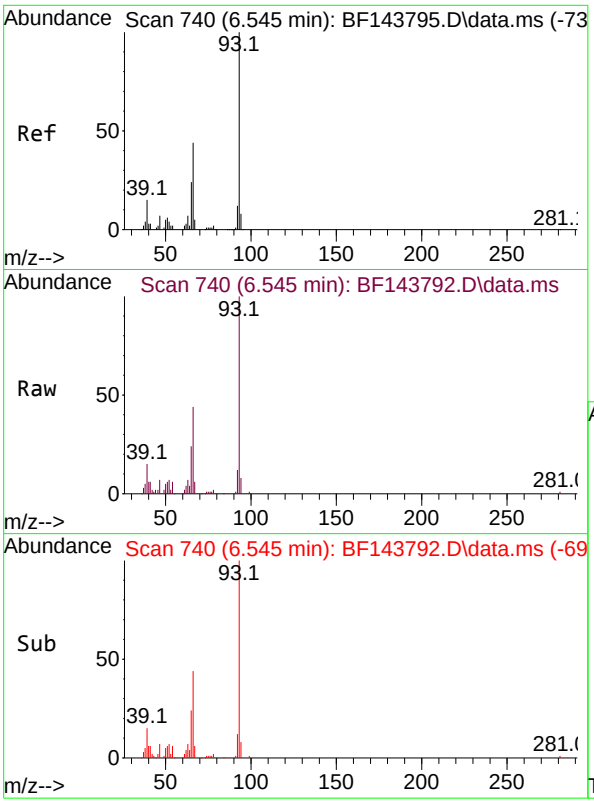
#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.50 min

Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion: 112

Sig	Exp Ratio
112	100
64	78.7
63	40.8



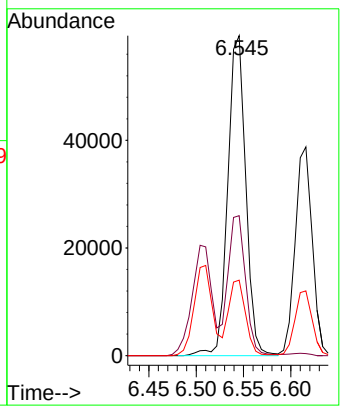


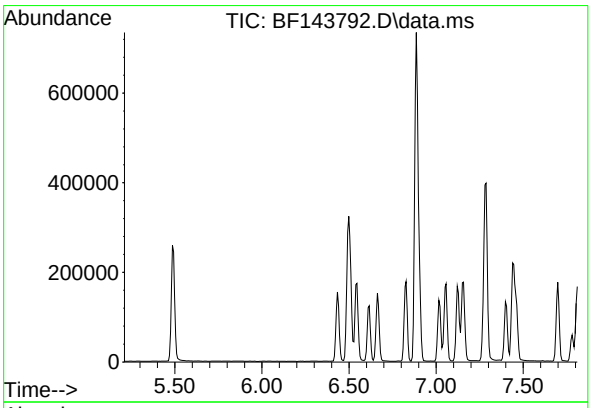
#6
Aniline
Concen: 5.530 ng
RT: 6.545 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 78570

Ion	Ratio	Lower	Upper
93	100		
66	43.7	37.1	55.7
65	23.6	19.4	29.0



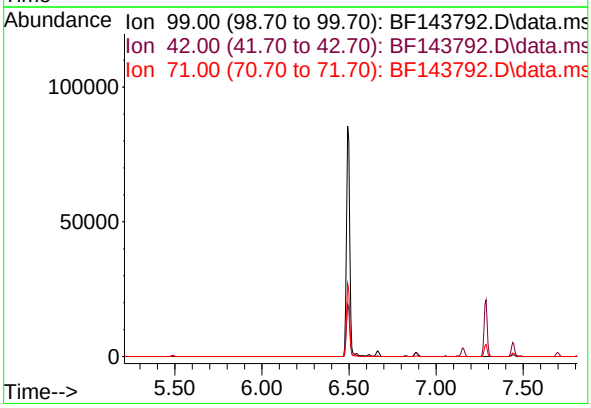


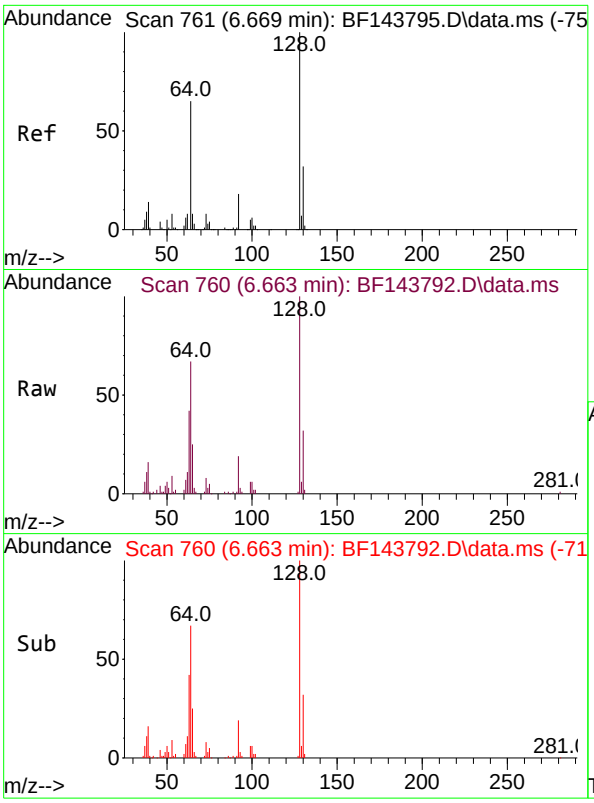
#7
Phenol-d6
Concen: 0.000 ng
Expected RT: 6.51 min

Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion: 99

Sig	Exp Ratio
99	100
42	23.3
71	33.7



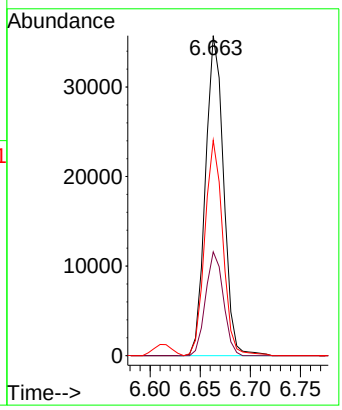


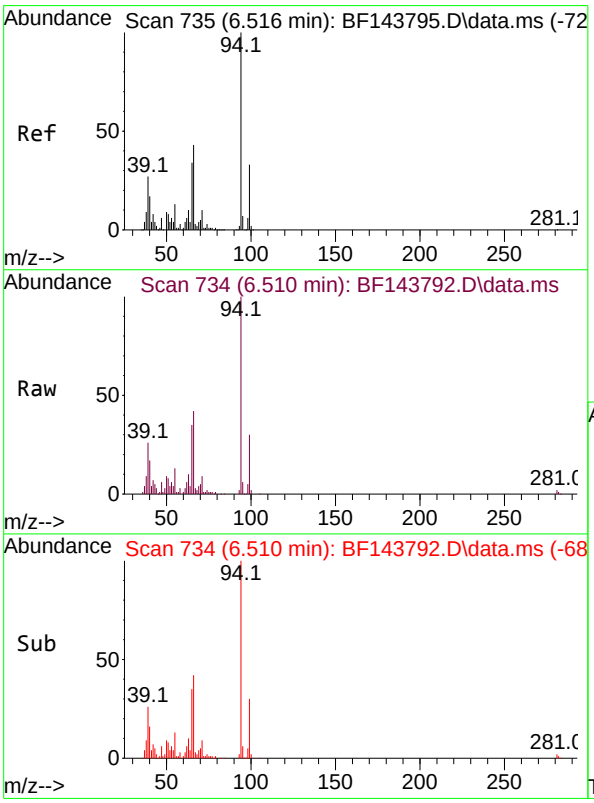
#8
2-Chlorophenol
Concen: 5.175 ng
RT: 6.663 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 44880

Ion	Ratio	Lower	Upper
128	100		
130	32.4	12.2	52.2
64	67.3	46.5	86.5

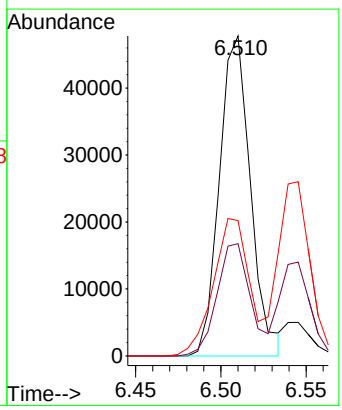


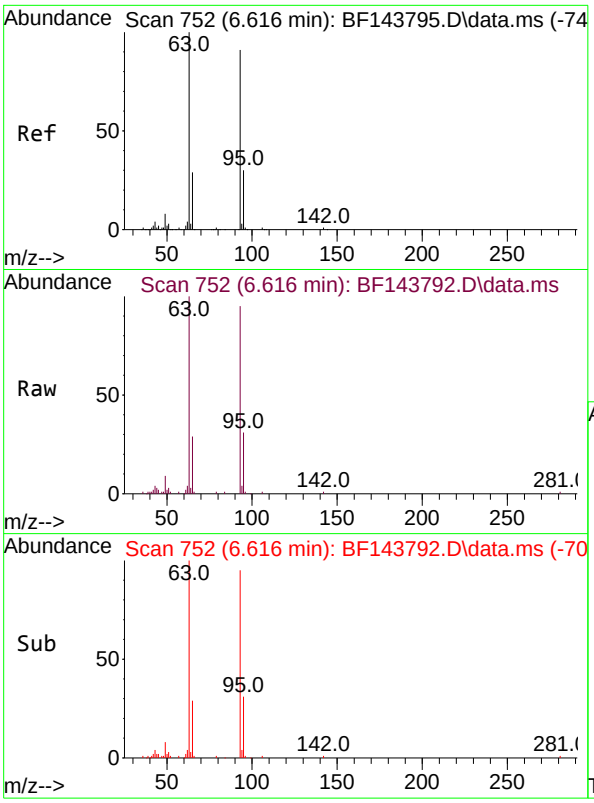


#10
Phenol
Concen: 5.328 ng
RT: 6.510 min Scan# 734
Delta R.T. -0.018 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion: 94 Resp: 60619

Ion	Ratio	Lower	Upper
94	100		
65	35.1	14.2	54.2
66	42.3	24.1	64.1



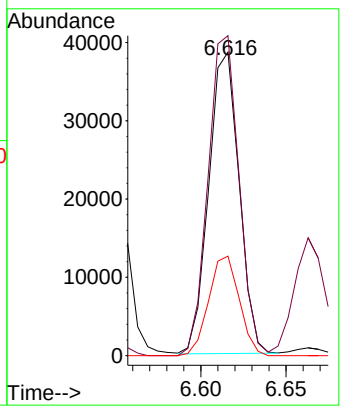


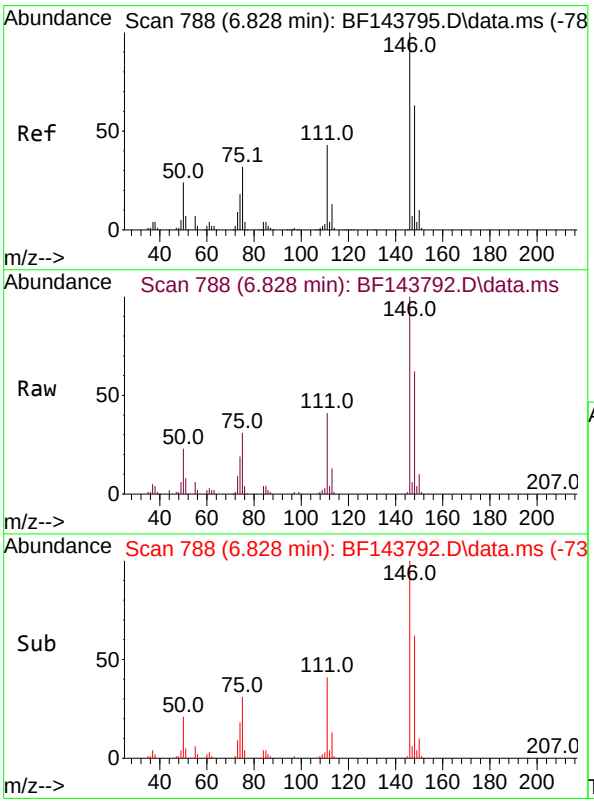
#11
bis(2-Chloroethyl)ether
Concen: 5.353 ng
RT: 6.616 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 93 Resp: 47743

Ion	Ratio	Lower	Upper
93	100		
63	105.4	89.2	129.2
95	32.8	12.9	52.9

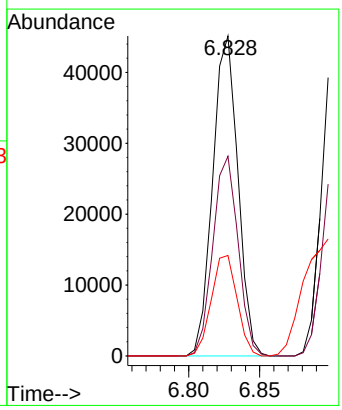


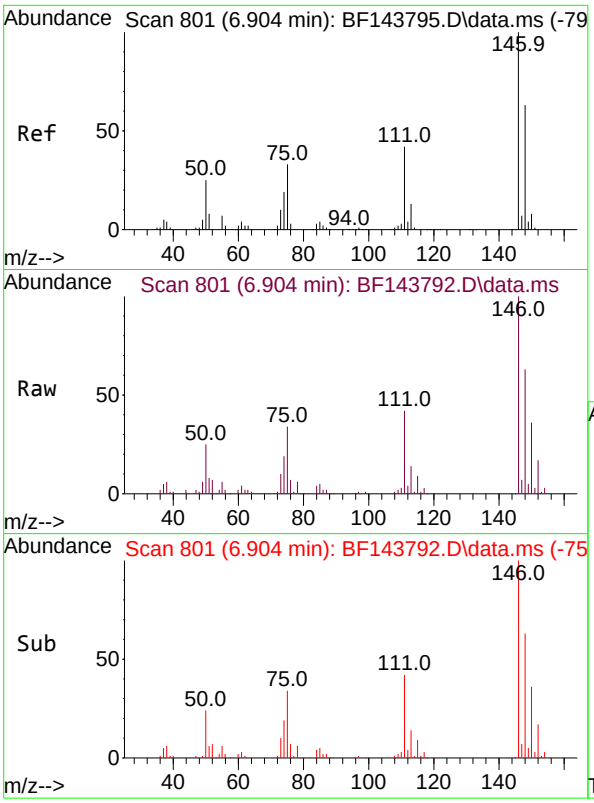


#12
1,3-Dichlorobenzene
Concen: 5.544 ng
RT: 6.828 min Scan# 788
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:146 Resp: 55825

Ion	Ratio	Lower	Upper
146	100		
148	62.4	50.4	75.6
75	31.4	25.6	38.4



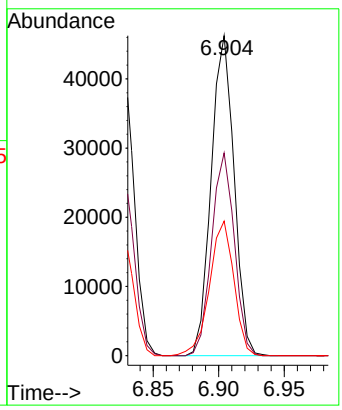


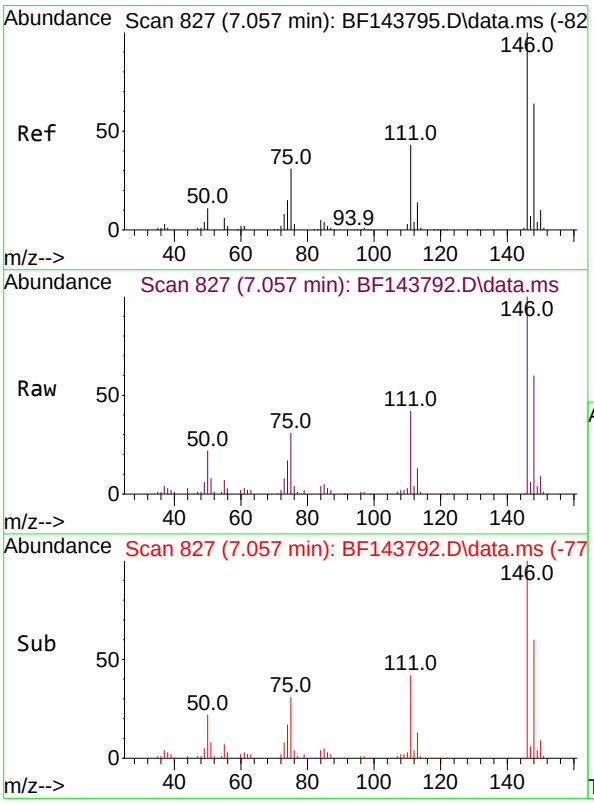
#13
1,4-Dichlorobenzene
Concen: 5.594 ng
RT: 6.904 min Scan# 80
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:146 Resp: 56211

Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.7	76.1
111	42.0	33.4	50.2

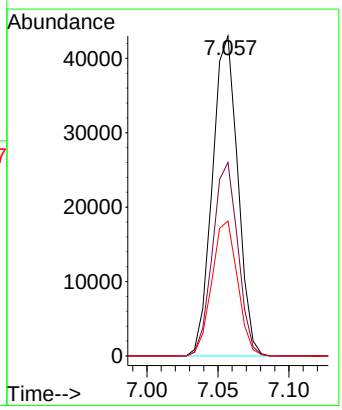


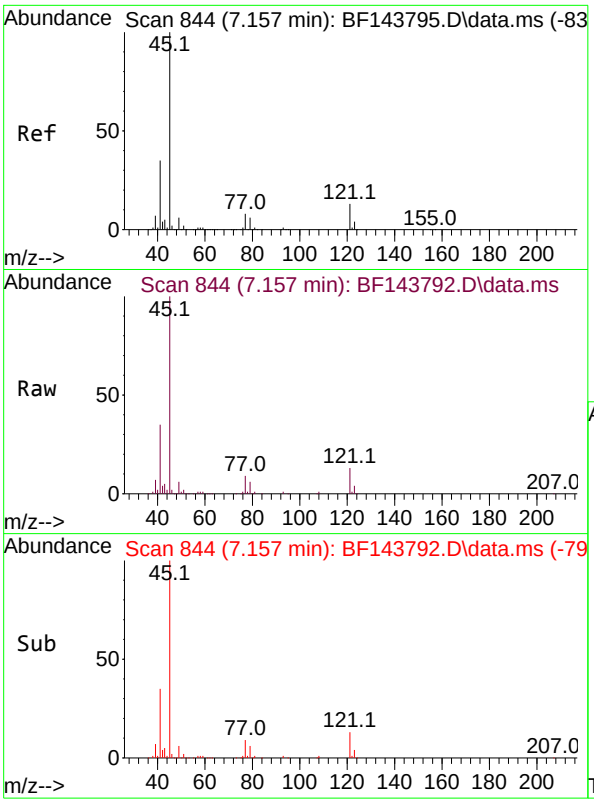


#14
1,2-Dichlorobenzene
Concen: 5.635 ng
RT: 7.057 min Scan# 827
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:146 Resp: 53628

Ion	Ratio	Lower	Upper
146	100		
148	60.4	51.1	76.7
111	42.1	34.3	51.5



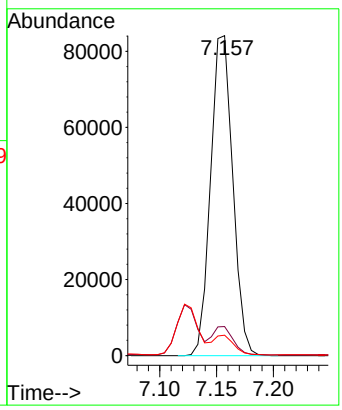


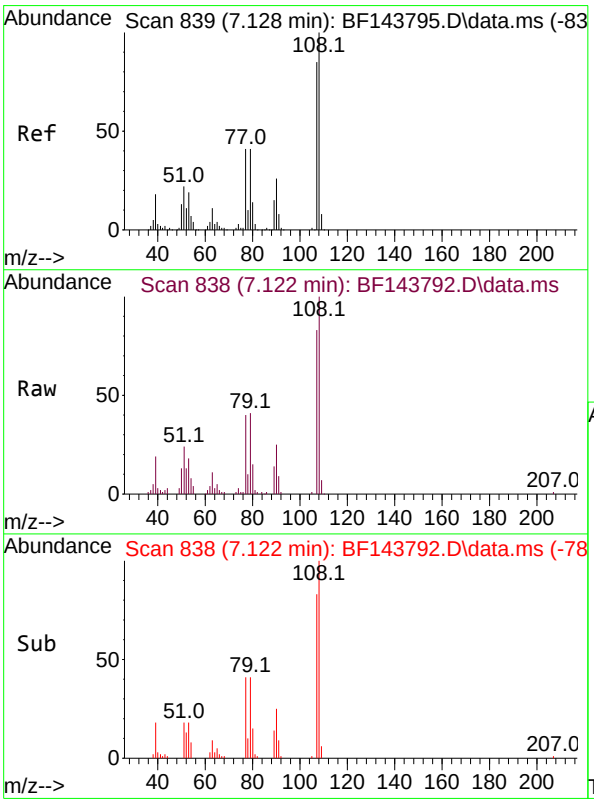
#16
2,2'-oxybis(1-Chloropropane)
Concen: 5.401 ng
RT: 7.157 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 45 Resp: 114228

Ion	Ratio	Lower	Upper
45	100		
77	9.1	0.0	28.5
79	6.4	0.0	26.3

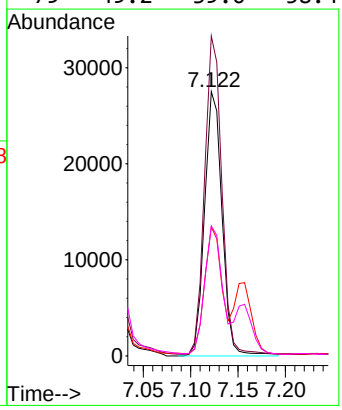


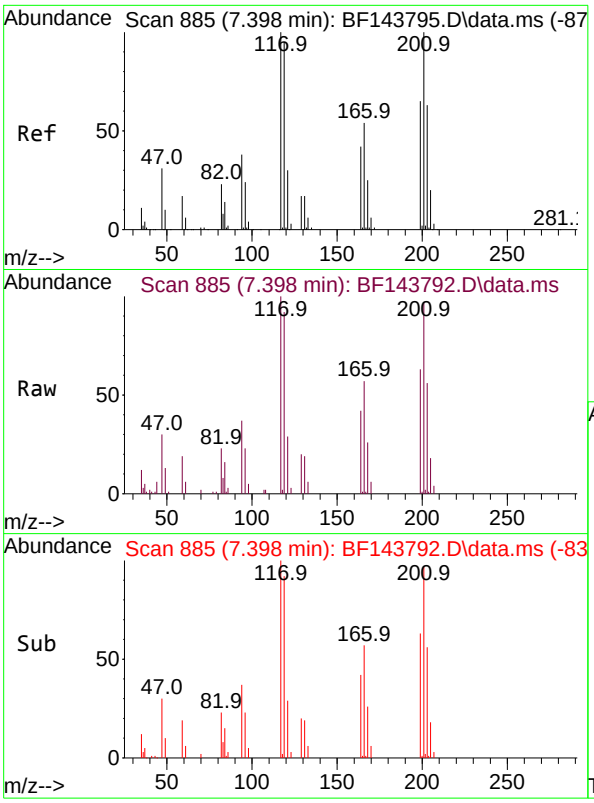


#17
2-Methylphenol
Concen: 5.291 ng
RT: 7.122 min Scan# 838
Delta R.T. -0.012 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:107 Resp: 35529

Ion	Ratio	Lower	Upper
107	100		
108	121.1	94.2	141.4
77	48.8	38.6	58.0
79	49.2	39.0	58.4



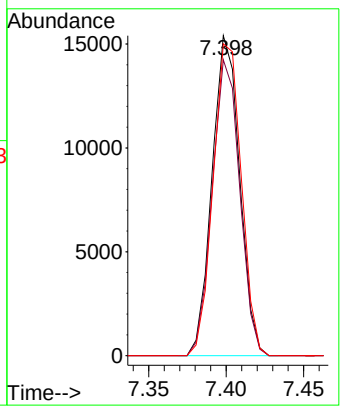


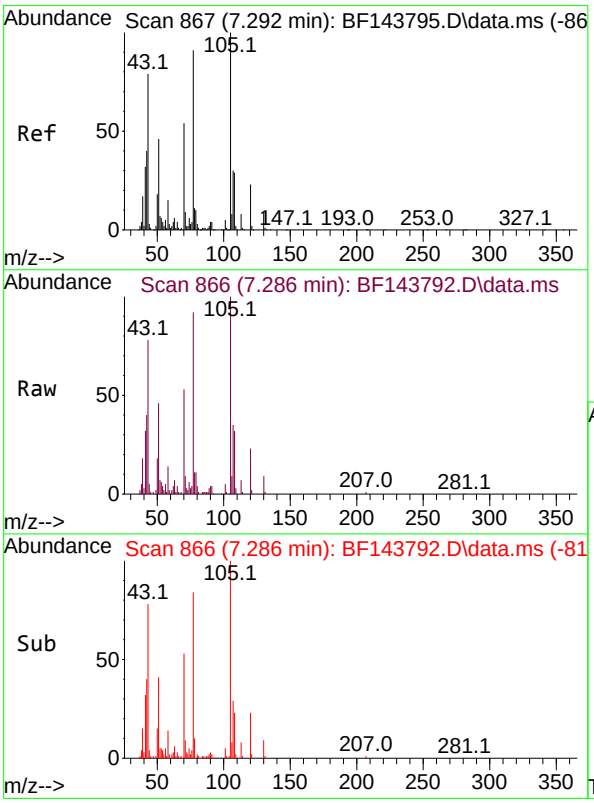
#18
Hexachloroethane
Concen: 5.400 ng
RT: 7.398 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:117 Resp: 19083

Ion	Ratio	Lower	Upper
117	100		
119	92.4	76.2	114.2
201	97.4	79.7	119.5

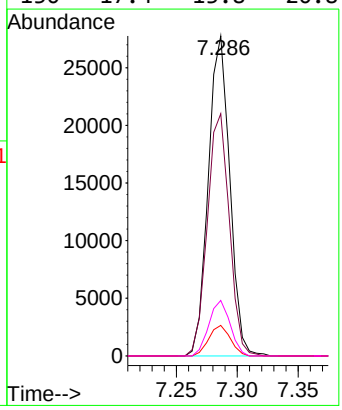


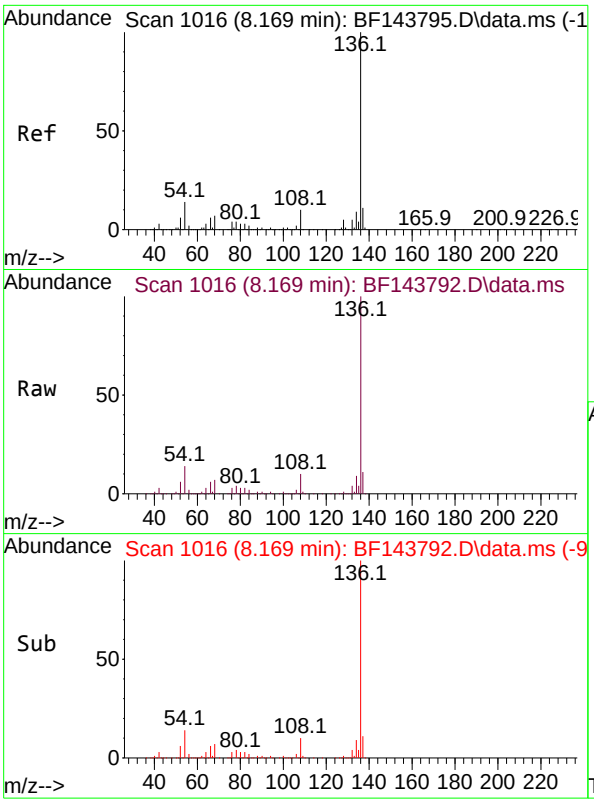


#19
n-Nitroso-di-n-propylamine
Concen: 5.415 ng
RT: 7.286 min Scan# 866
Delta R.T. -0.018 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion: 70 Resp: 34084

Ion	Ratio	Lower	Upper
70	100		
42	75.7	59.4	89.0
101	9.5	7.1	10.7
130	17.4	13.8	20.8



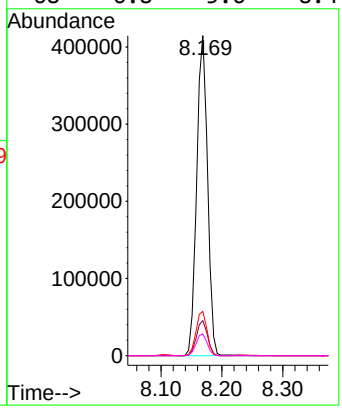


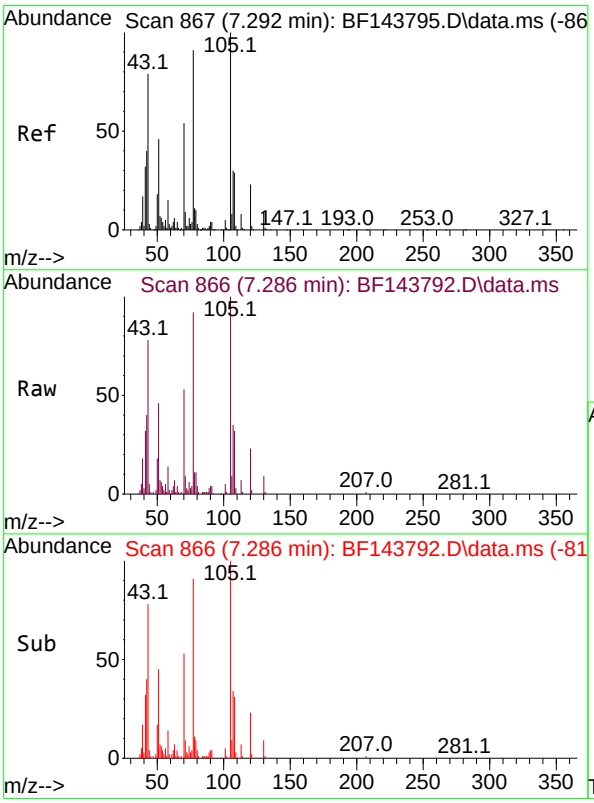
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 10
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:136 Resp: 513746

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	13.8	11.2	16.8
68	6.8	5.6	8.4

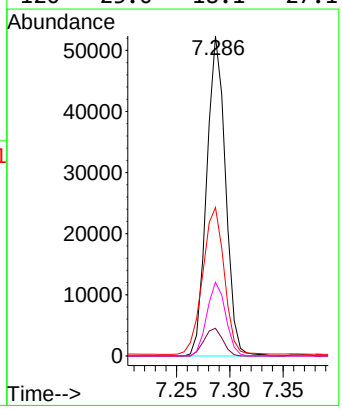


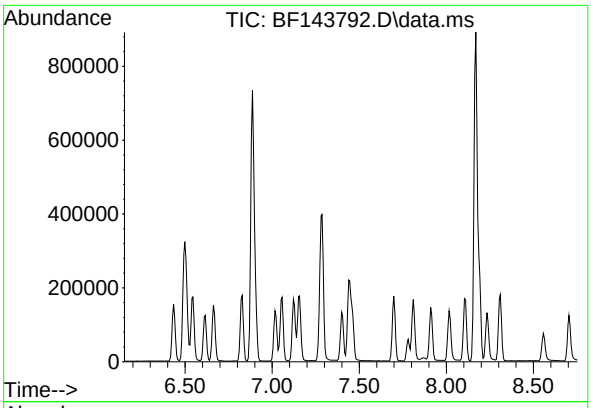


#22
Acetophenone
Concen: 5.691 ng
RT: 7.286 min Scan# 866
Delta R.T. -0.012 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:105 Resp: 64220

Ion	Ratio	Lower	Upper
105	100		
71	8.6	7.0	10.4
51	46.4	36.6	55.0
120	23.0	18.1	27.1





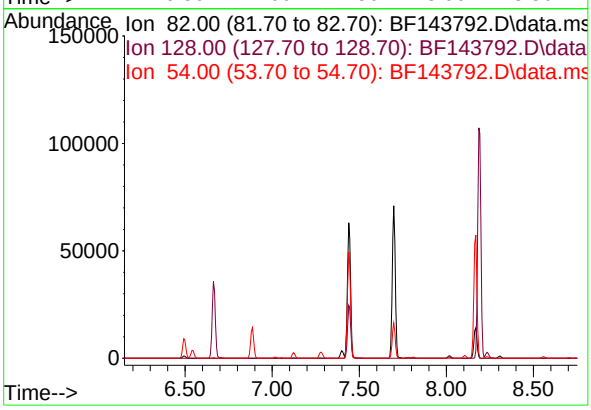
#23
Nitrobenzene-d5
Concen: 0.000 ng
Expected RT: 7.45 min

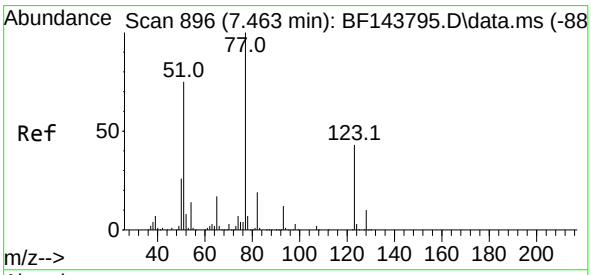
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

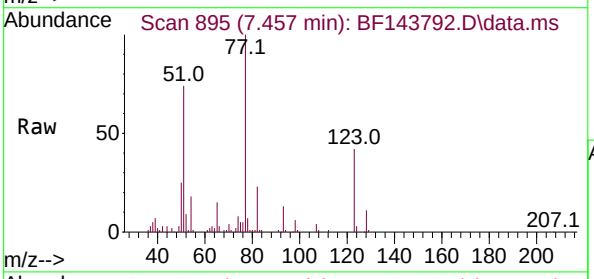
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

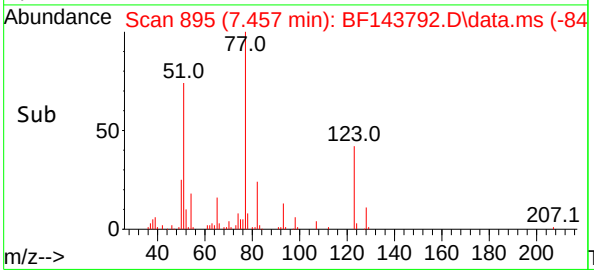
Tgt Ion: 82

Sig	Exp Ratio
82	100
128	41.6
54	80.3





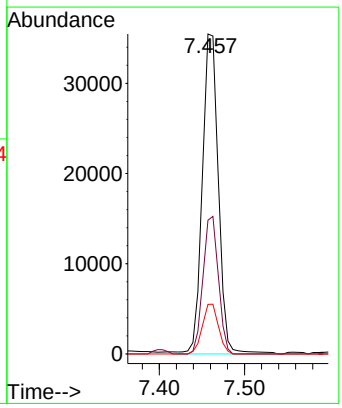


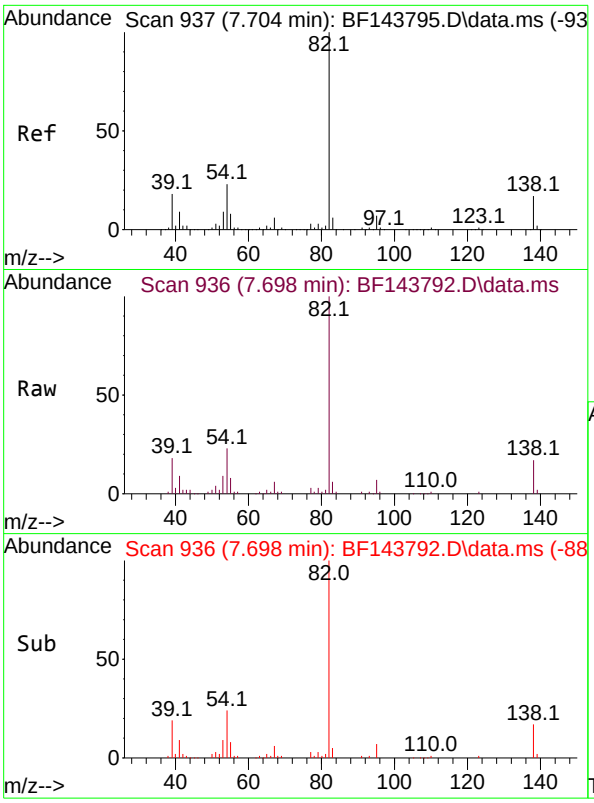


#24
Nitrobenzene
Concen: 4.994 ng
RT: 7.457 min Scan# 895
Delta R.T. -0.018 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion: 77 Resp: 46458

Ion	Ratio	Lower	Upper
77	100		
123	41.8	34.0	51.0
65	15.5	13.5	20.3



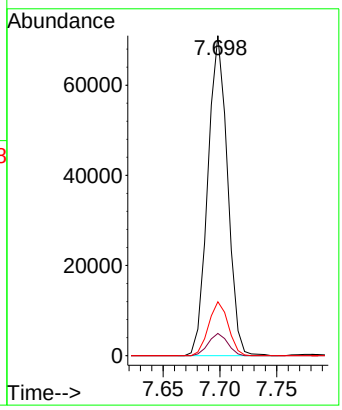


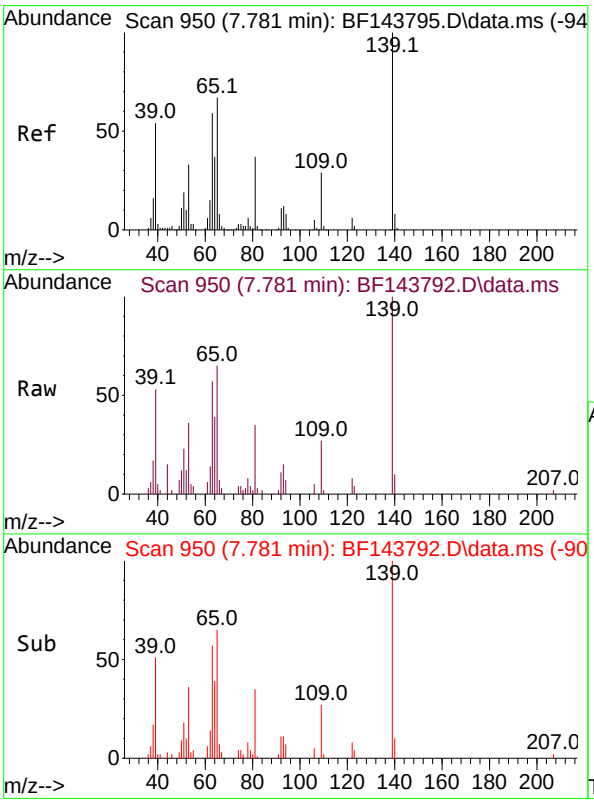
#25
Isophorone
Concen: 5.234 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 82 Resp: 85608

Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.4	8.2
138	16.8	13.7	20.5

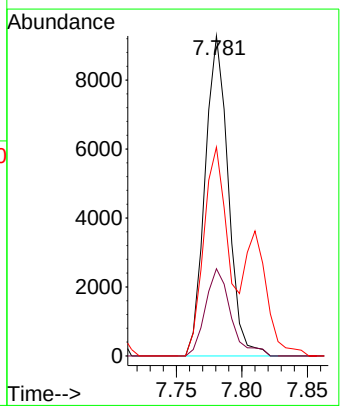


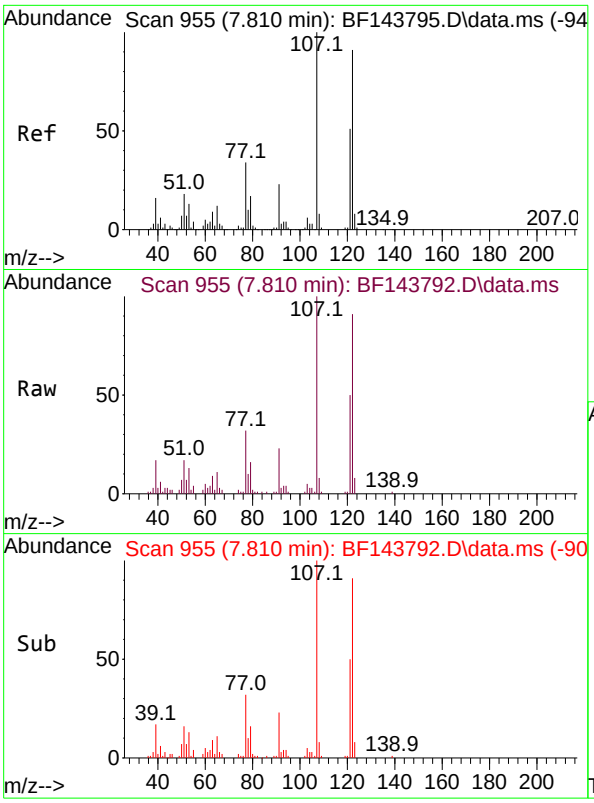


#26
2-Nitrophenol
Concen: 5.528 ng
RT: 7.781 min Scan# 950
Delta R.T. -0.005 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:139 Resp: 11396

Ion	Ratio	Lower	Upper
139	100		
109	27.2	23.3	34.9
65	65.2	53.8	80.6



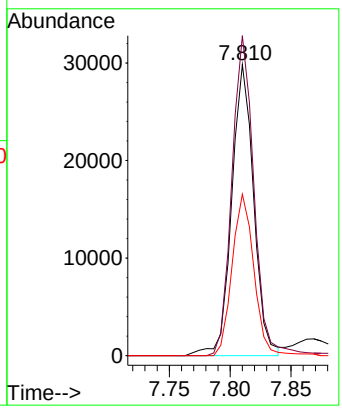


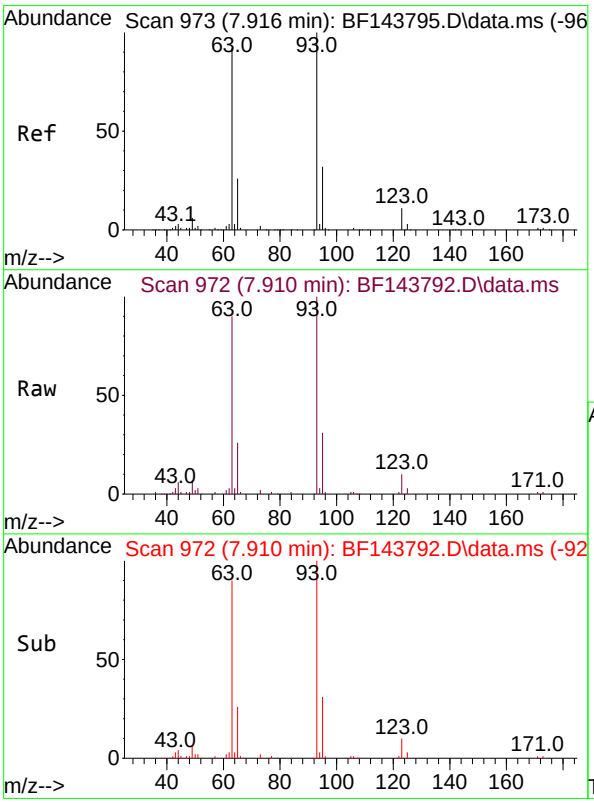
#27
2,4-Dimethylphenol
Concen: 5.122 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:122 Resp: 37440

Ion	Ratio	Lower	Upper
122	100		
107	110.0	87.5	131.3
121	55.5	44.2	66.4

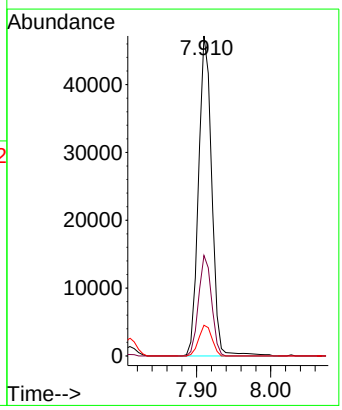


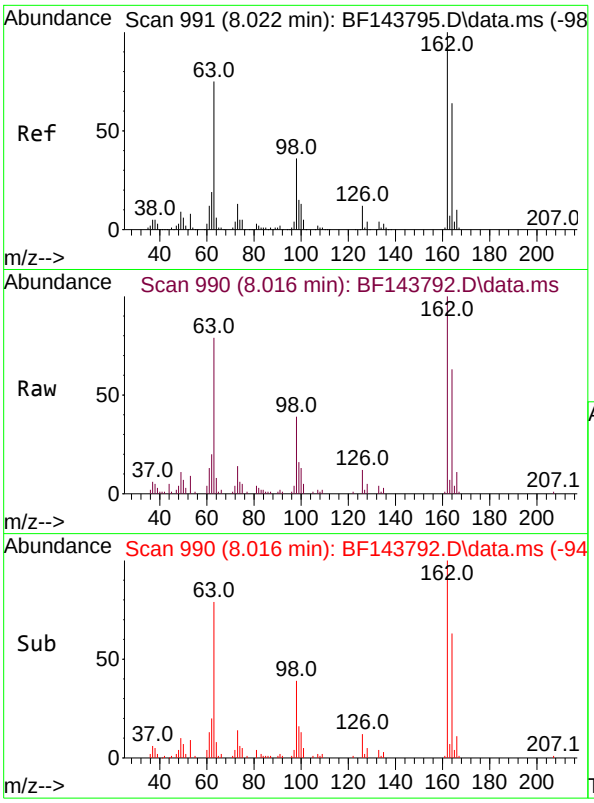


#28
bis(2-Chloroethoxy)methane
Concen: 5.501 ng
RT: 7.910 min Scan# 972
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion: 93 Resp: 58456

Ion	Ratio	Lower	Upper
93	100		
95	31.4	25.8	38.8
123	9.6	8.8	13.2



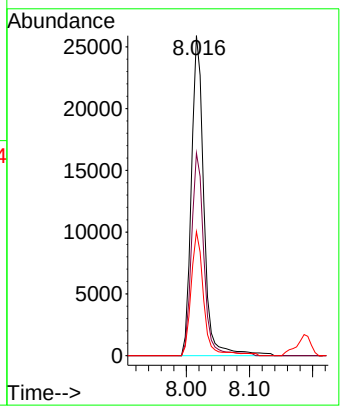


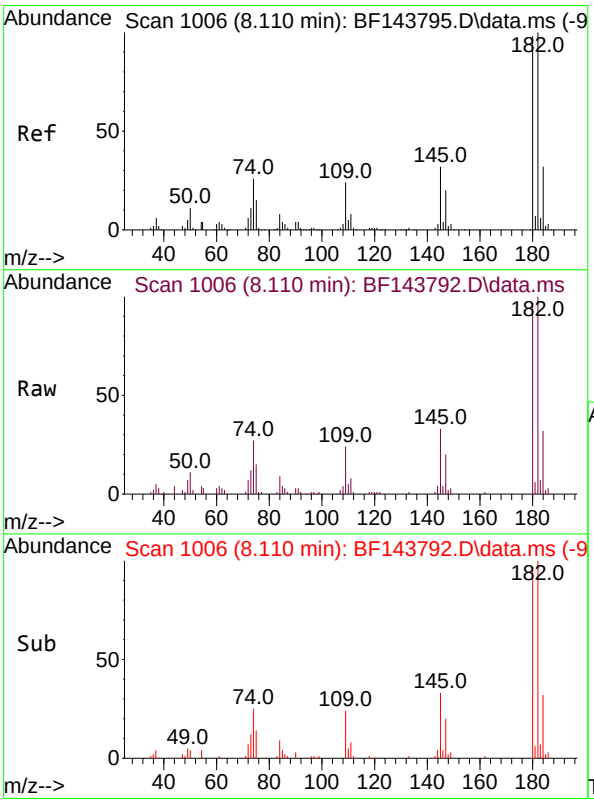
#29
2,4-Dichlorophenol
Concen: 4.947 ng
RT: 8.016 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:162 Resp: 35586

Ion	Ratio	Lower	Upper
162	100		
164	63.3	44.1	84.1
98	38.7	15.8	55.8

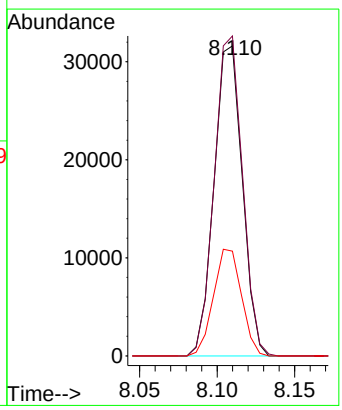


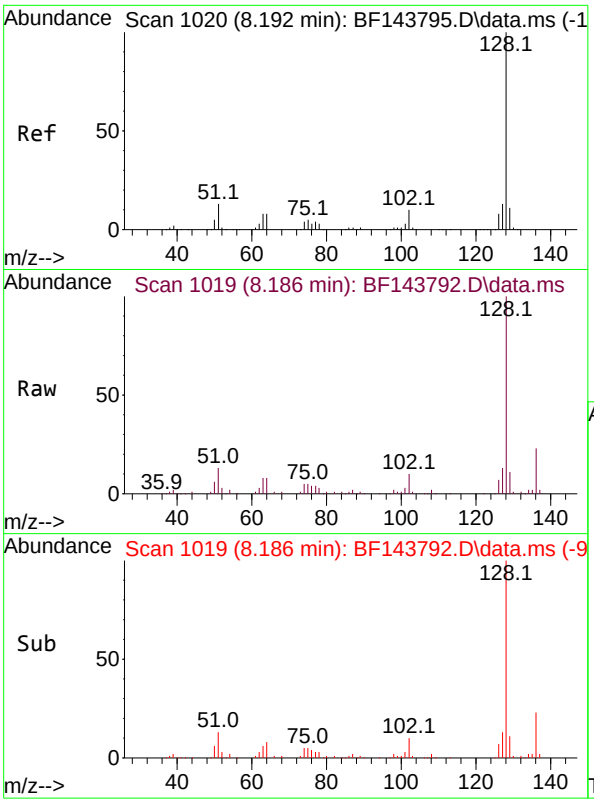


#30
1,2,4-Trichlorobenzene
Concen: 5.403 ng
RT: 8.110 min Scan# 1006
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:180 Resp: 40333

Ion	Ratio	Lower	Upper
180	100		
182	103.2	82.0	123.0
145	33.8	25.9	38.9



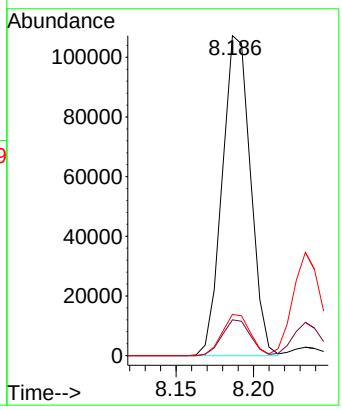


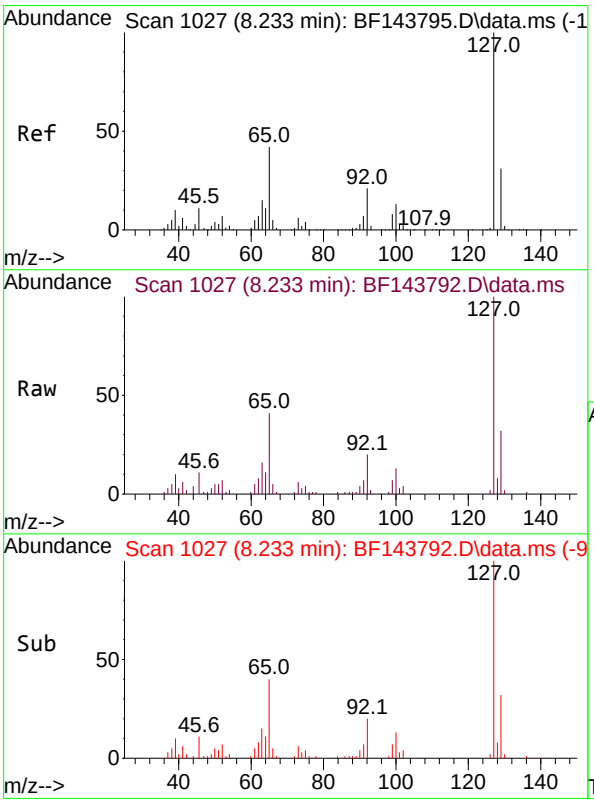
#31
Naphthalene
Concen: 5.523 ng
RT: 8.186 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:128 Resp: 135838

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	12.9	10.2	15.4

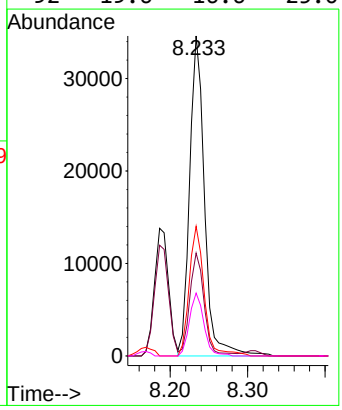


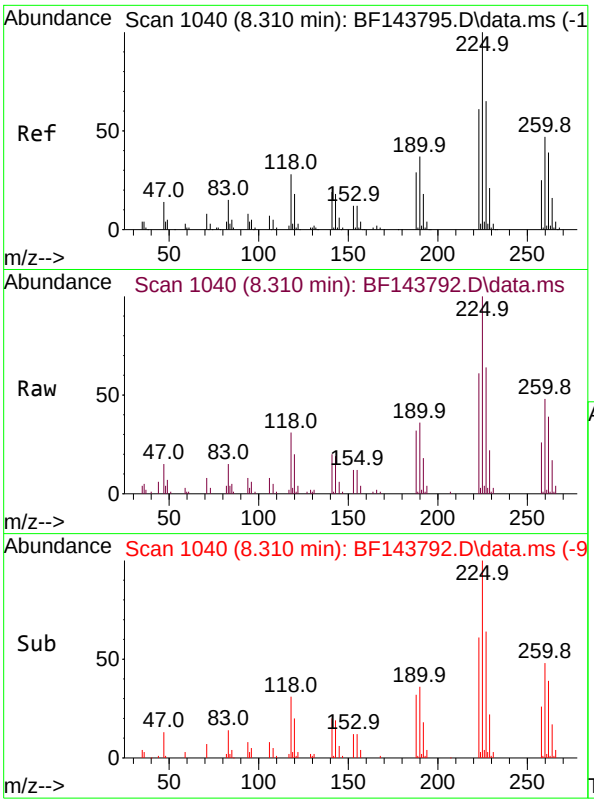


#33
4-Chloroaniline
Concen: 5.345 ng
RT: 8.233 min Scan# 1027
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:127 Resp: 46191

Ion	Ratio	Lower	Upper
127	100		
129	32.1	25.4	38.2
65	40.5	33.4	50.2
92	19.6	16.6	25.0



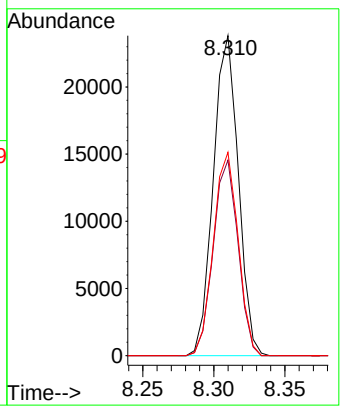


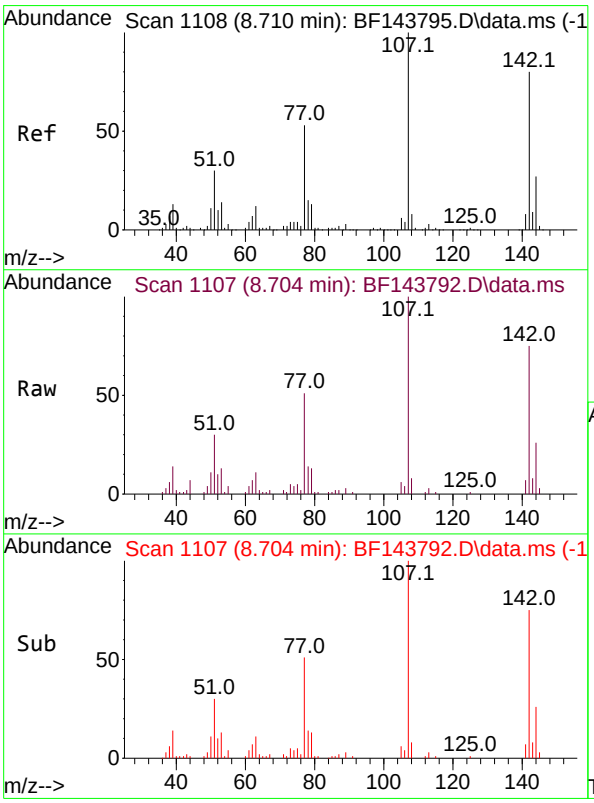
#34
Hexachlorobutadiene
Concen: 5.245 ng
RT: 8.310 min Scan# 10
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:225 Resp: 29187

Ion	Ratio	Lower	Upper
225	100		
223	61.1	48.6	72.8
227	63.5	51.9	77.9

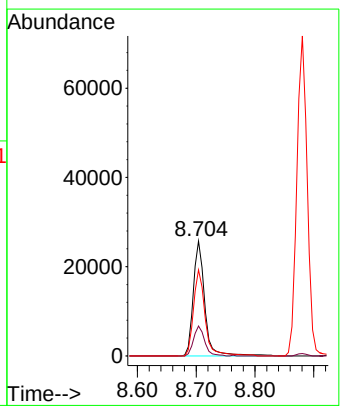


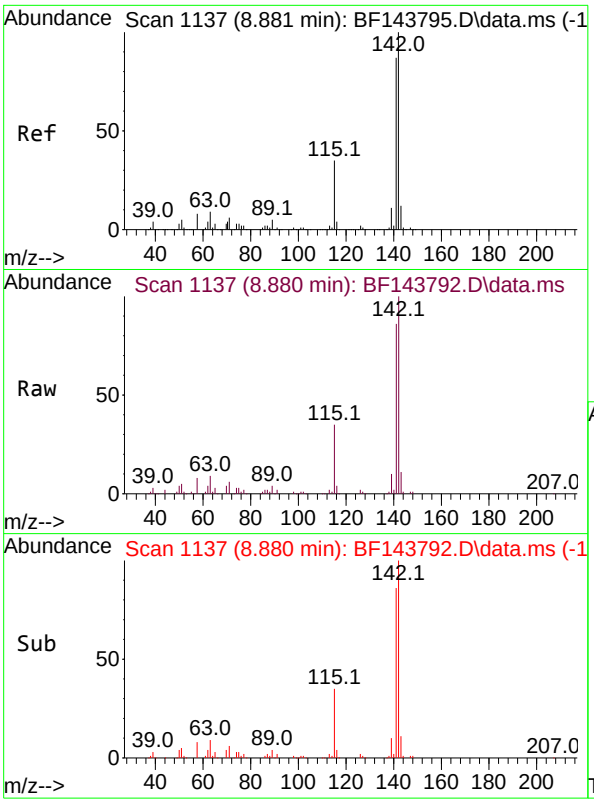


#36
4-Chloro-3-methylphenol
Concen: 5.152 ng
RT: 8.704 min Scan# 1107
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:107 Resp: 34756

Ion	Ratio	Lower	Upper
107	100		
144	26.0	21.8	32.8
142	74.9	63.6	95.4



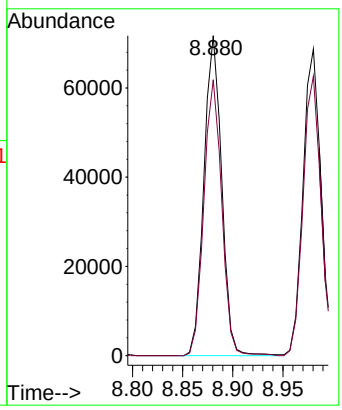


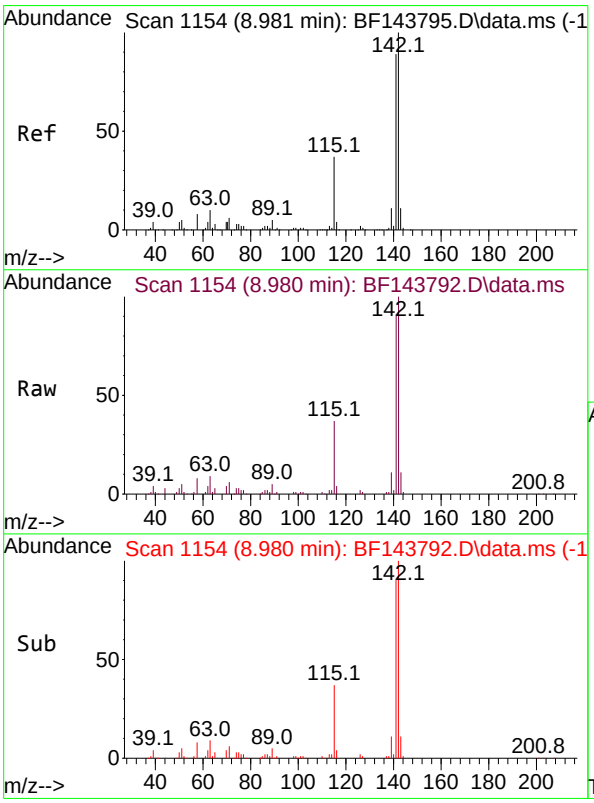
#37
2-Methylnaphthalene
Concen: 5.612 ng
RT: 8.880 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:142 Resp: 88002

Ion	Ratio	Lower	Upper
142	100		
141	86.2	69.4	104.0

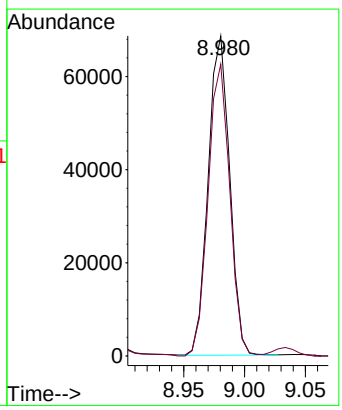


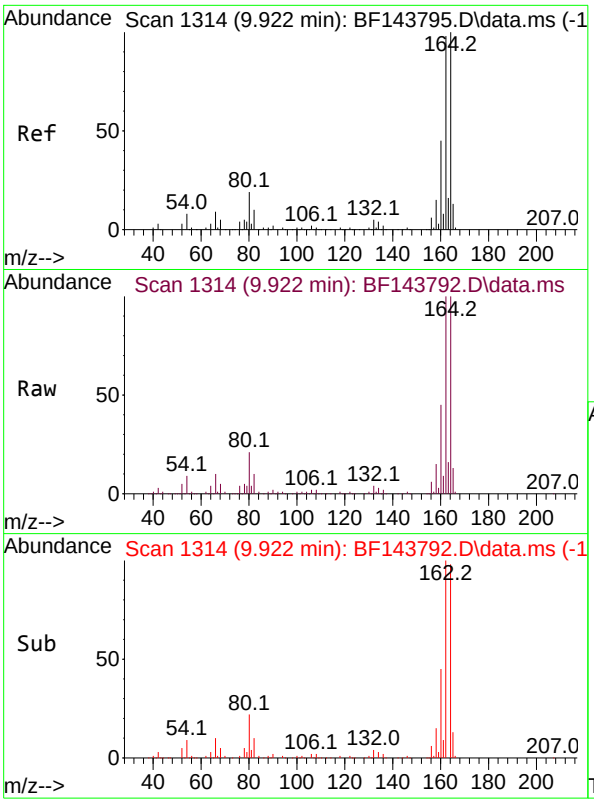


#38
1-Methylnaphthalene
Concen: 5.609 ng
RT: 8.980 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:142 Resp: 84197

Ion	Ratio	Lower	Upper
142	100		
141	91.2	71.1	106.7



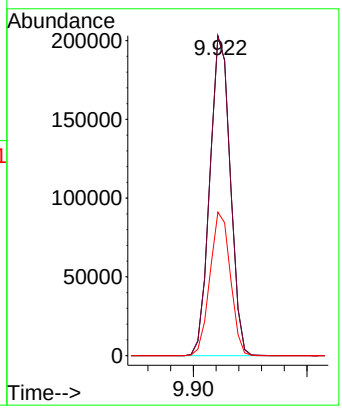


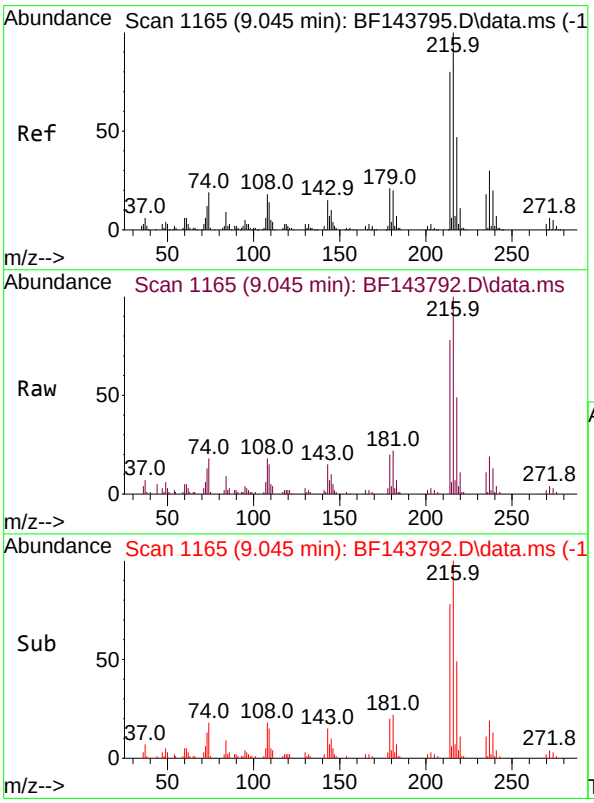
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:164 Resp: 252917

Ion	Ratio	Lower	Upper
164	100		
162	99.7	78.8	118.2
160	44.8	35.8	53.6

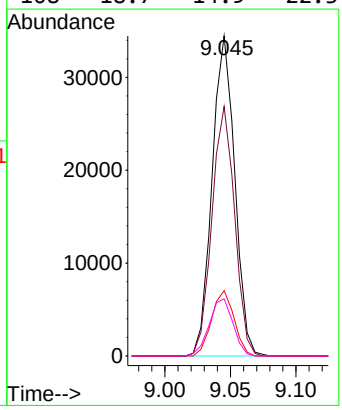


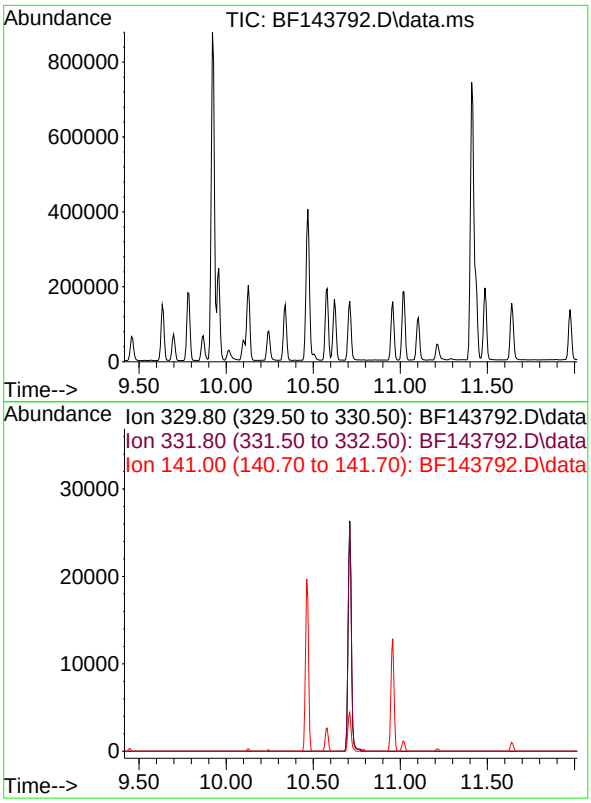


#40
1,2,4,5-Tetrachlorobenzene
Concen: 5.441 ng
RT: 9.045 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:216 Resp: 41527

Ion	Ratio	Lower	Upper
216	100		
214	77.9	63.7	95.5
179	20.2	16.5	24.7
108	18.7	14.9	22.3





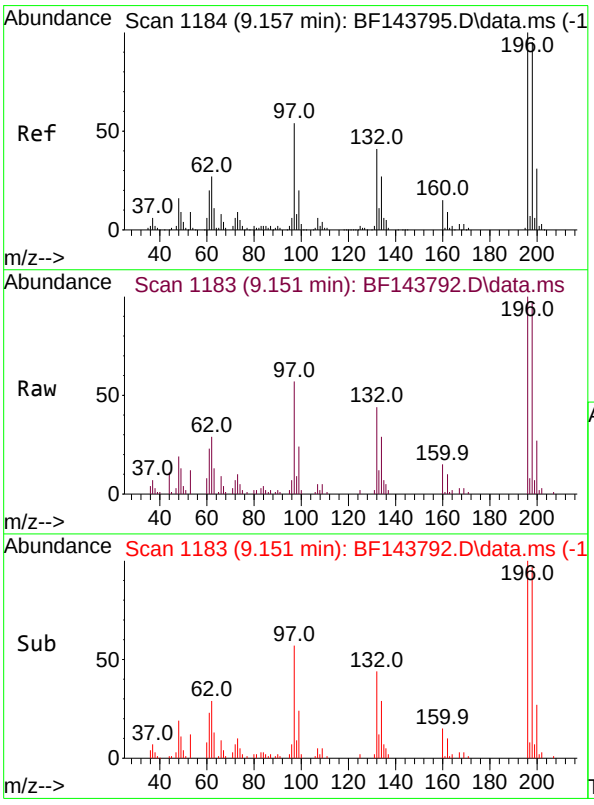
#42
2,4,6-Tribromophenol
Concen: 0.000 ng
Expected RT: 10.72 min

Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 330

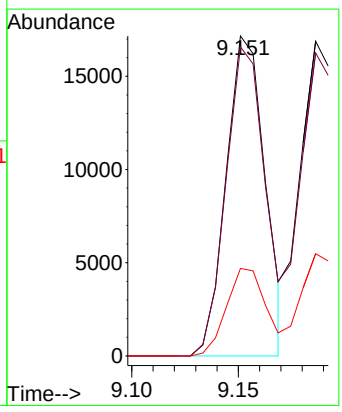
Sig	Exp Ratio
330	100
332	93.4
141	17.9

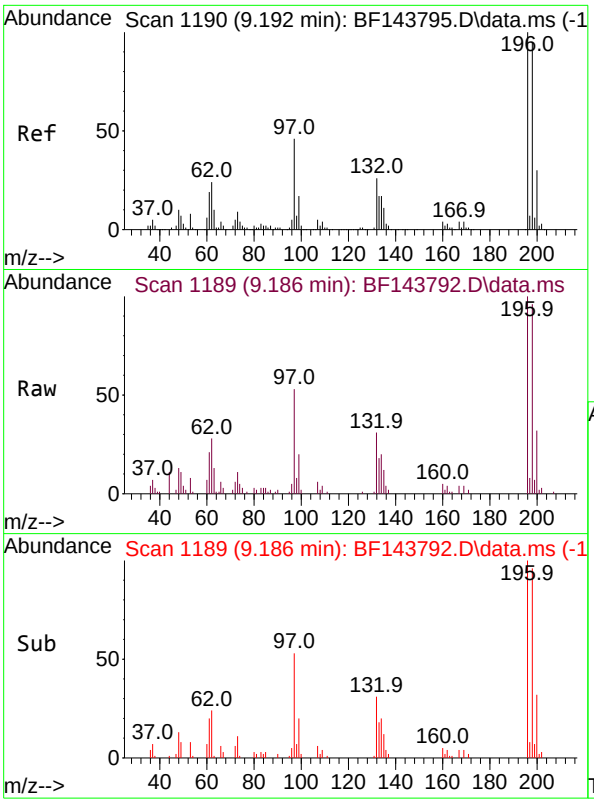


#43
2,4,6-Trichlorophenol
Concen: 4.555 ng
RT: 9.151 min Scan# 1183
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:196 Resp: 21768

Ion	Ratio	Lower	Upper
196	100		
198	96.6	76.2	114.2
200	27.3	24.7	37.1



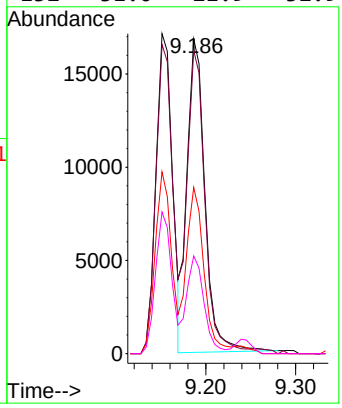


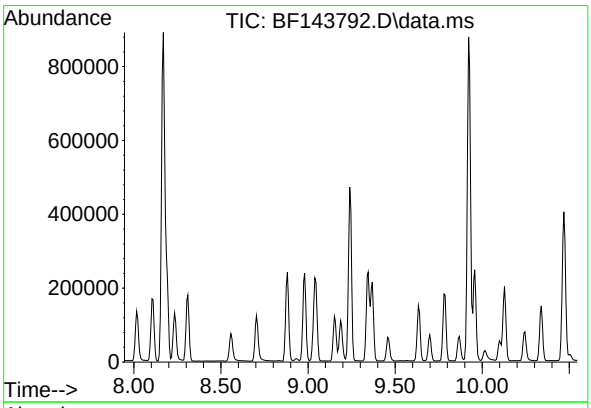
#44
2,4,5-Trichlorophenol
Concen: 4.692 ng
RT: 9.186 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:196 Resp: 23454

Ion	Ratio	Lower	Upper
196	100		
198	96.3	75.9	113.9
97	52.8	38.3	57.5
132	31.0	21.9	32.9



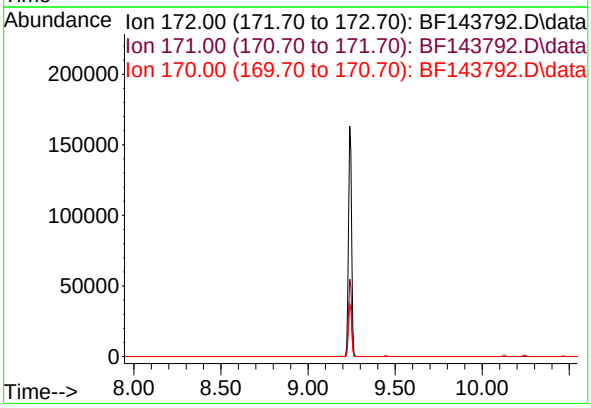


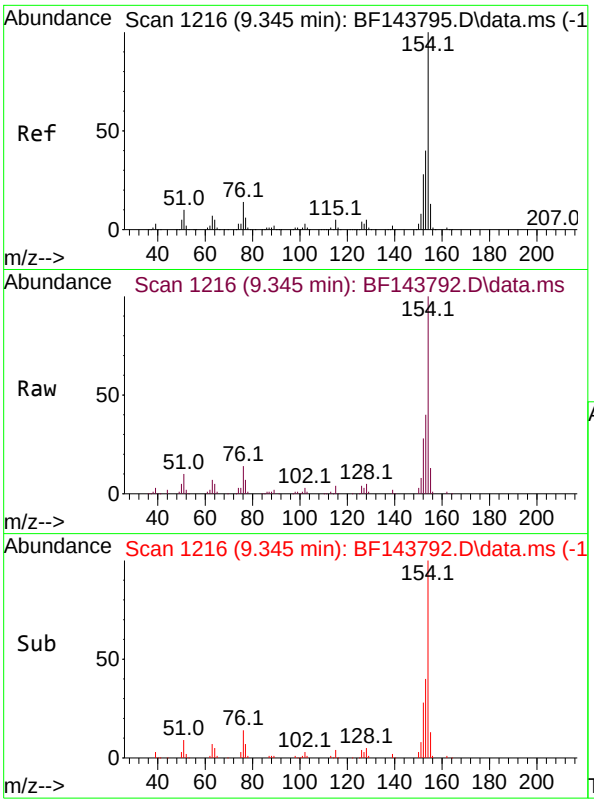
#45
2-Fluorobiphenyl
Concen: 0.000 ng
Expected RT: 9.25 min

Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion: 172

Sig	Exp Ratio
172	100
171	34.9
170	23.9



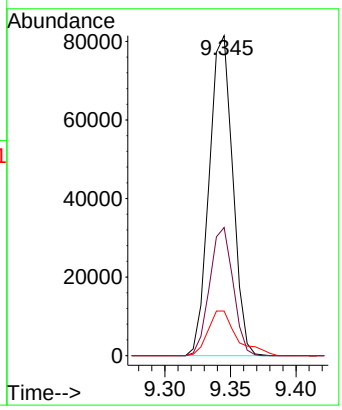


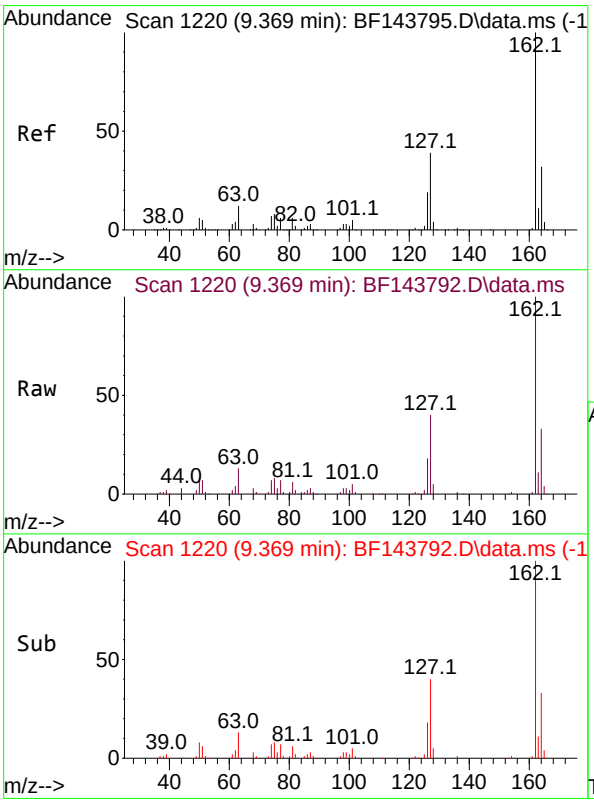
#46
1,1'-Biphenyl
Concen: 5.552 ng
RT: 9.345 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:154 Resp: 101651

Ion	Ratio	Lower	Upper
154	100		
153	40.0	19.7	59.7
76	13.9	0.0	33.8

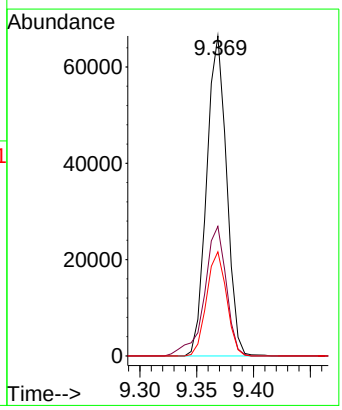


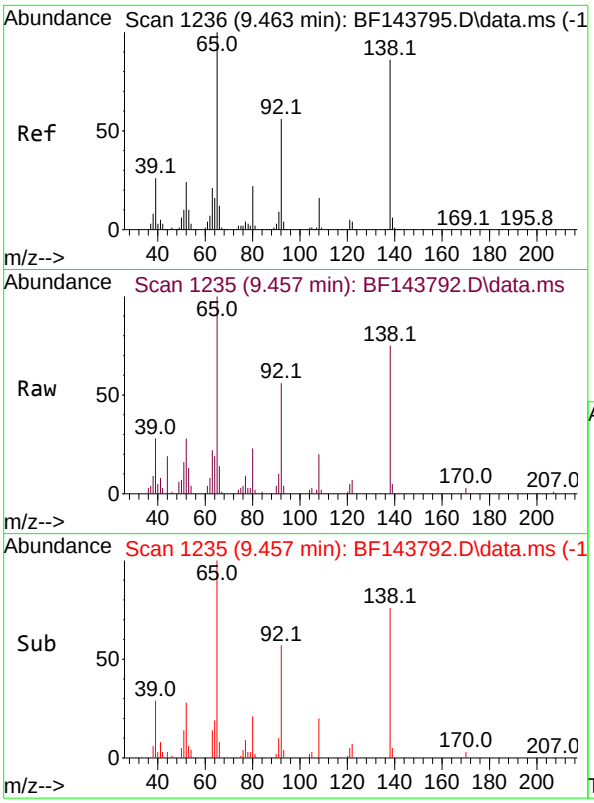


#47
2-Chloronaphthalene
Concen: 5.504 ng
RT: 9.369 min Scan# 1220
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:162 Resp: 81117

Ion	Ratio	Lower	Upper
162	100		
127	40.5	31.5	47.3
164	32.5	25.9	38.9



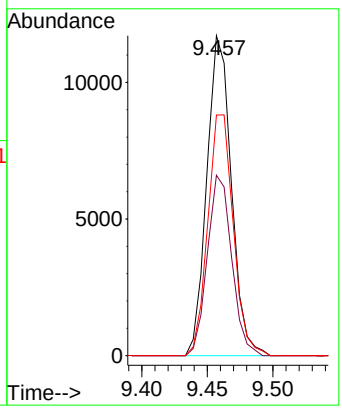


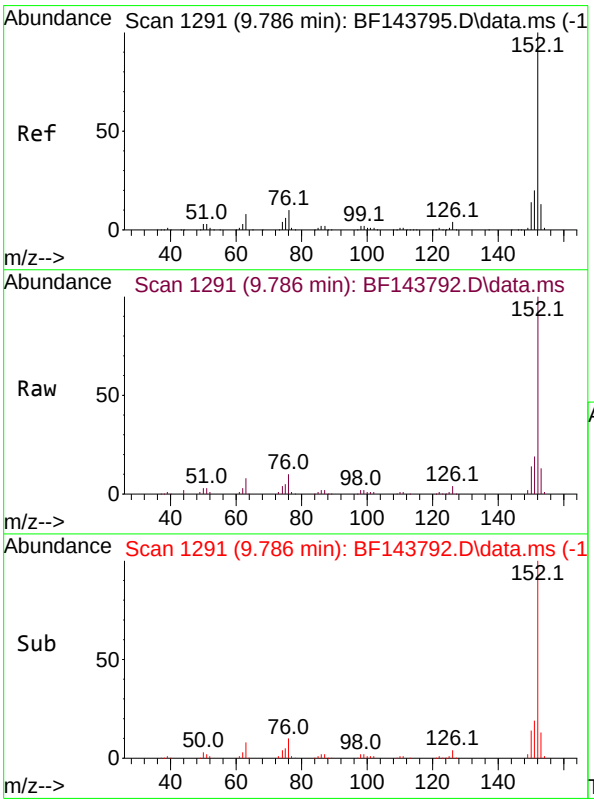
#48
2-Nitroaniline
Concen: 3.427 ng
RT: 9.457 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 65 Resp: 15262

Ion	Ratio	Lower	Upper
65	100		
92	56.4	44.9	67.3
138	75.2	69.0	103.4

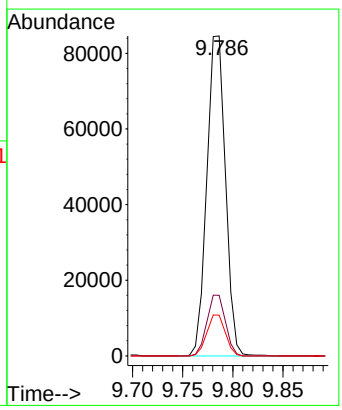


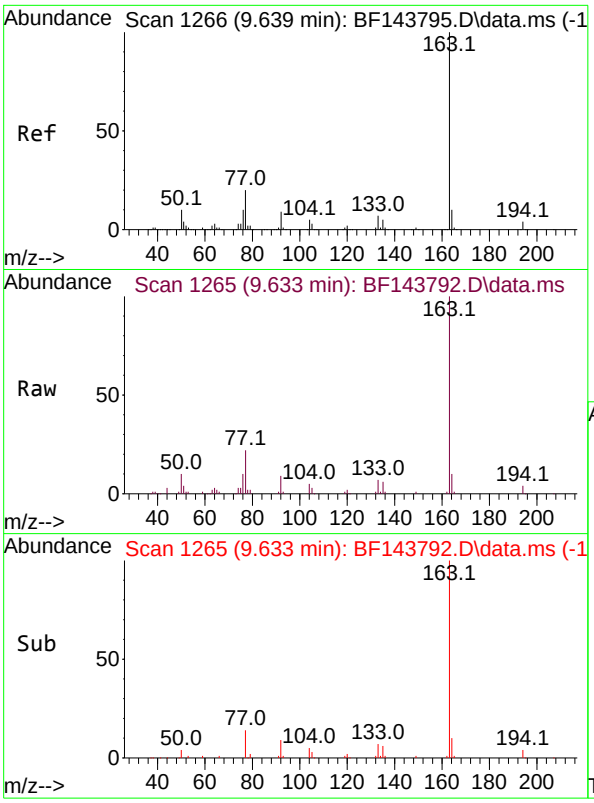


#49
Acenaphthylene
Concen: 5.389 ng
RT: 9.786 min Scan# 1291
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:152 Resp: 109327

Ion	Ratio	Lower	Upper
152	100		
151	18.9	15.7	23.5
153	12.7	10.6	15.8



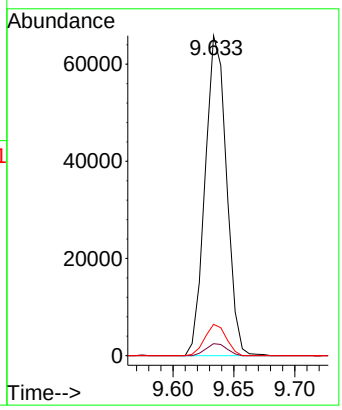


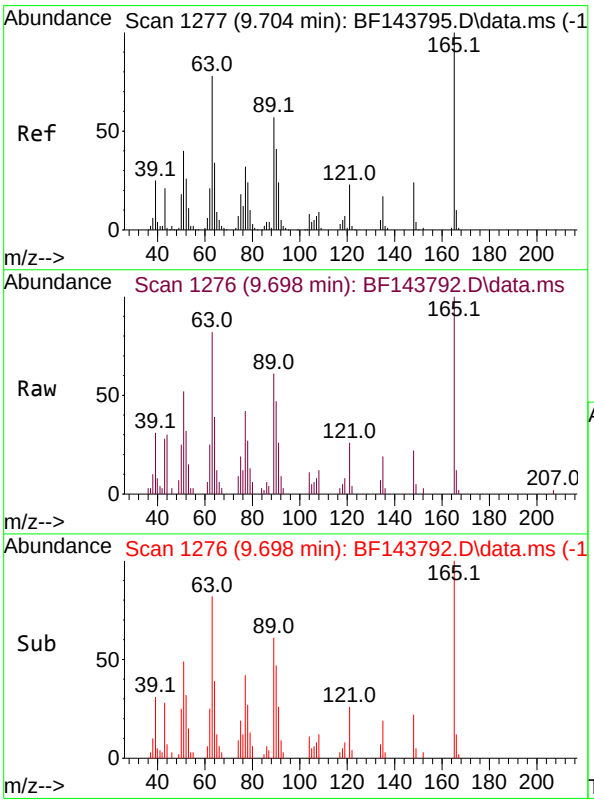
#50
Dimethylphthalate
Concen: 5.229 ng
RT: 9.633 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:163 Resp: 80614

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.6
164	9.8	8.2	12.2

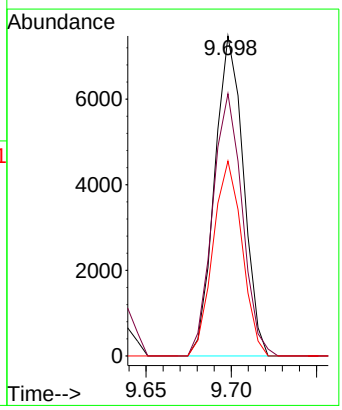


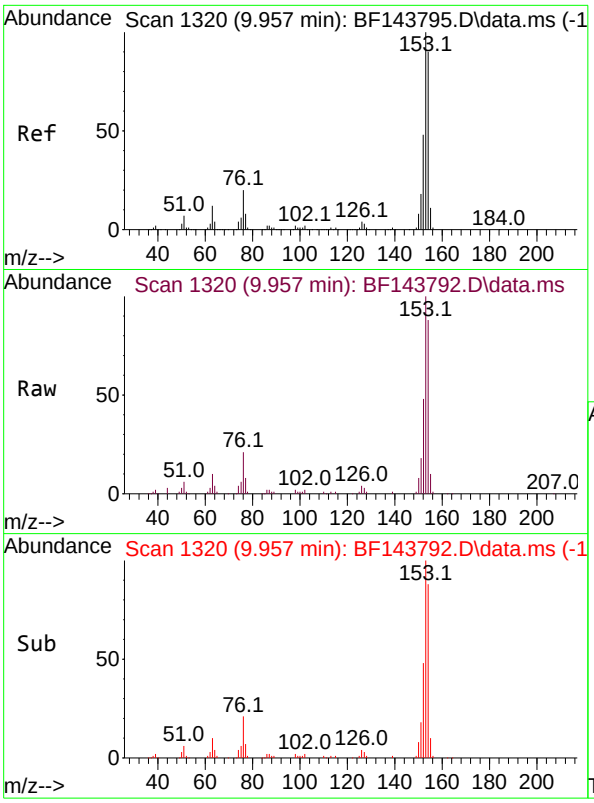


#51
2,6-Dinitrotoluene
Concen: 3.452 ng
RT: 9.698 min Scan# 1276
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:165 Resp: 8744

Ion	Ratio	Lower	Upper
165	100		
63	81.9	62.6	94.0
89	60.9	45.2	67.8



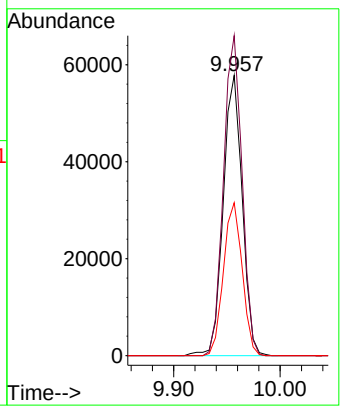


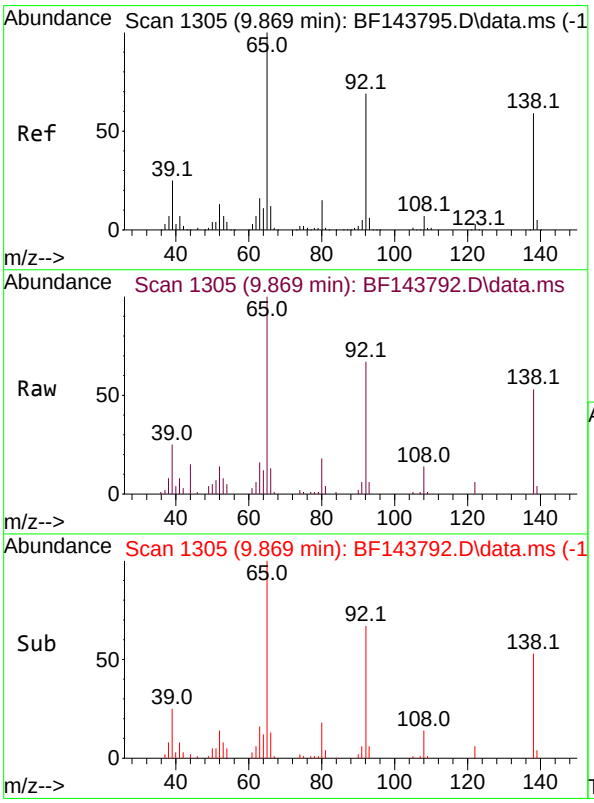
#52
Acenaphthene
Concen: 5.372 ng
RT: 9.957 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:154 Resp: 71713

Ion	Ratio	Lower	Upper
154	100		
153	114.2	88.7	133.1
152	54.6	42.7	64.1

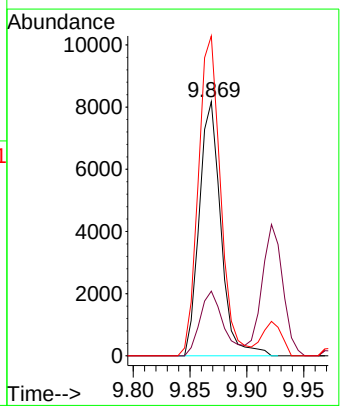


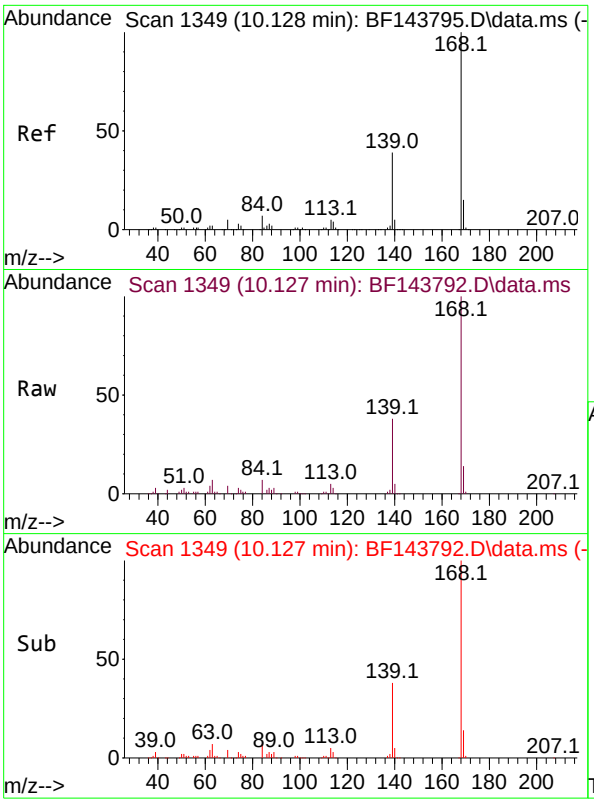


#53
3-Nitroaniline
Concen: 3.526 ng
RT: 9.869 min Scan# 1305
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:138 Resp: 10825

Ion	Ratio	Lower	Upper
138	100		
108	25.4	9.9	14.9#
92	125.9	93.5	140.3



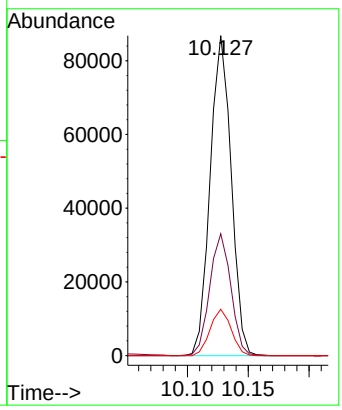


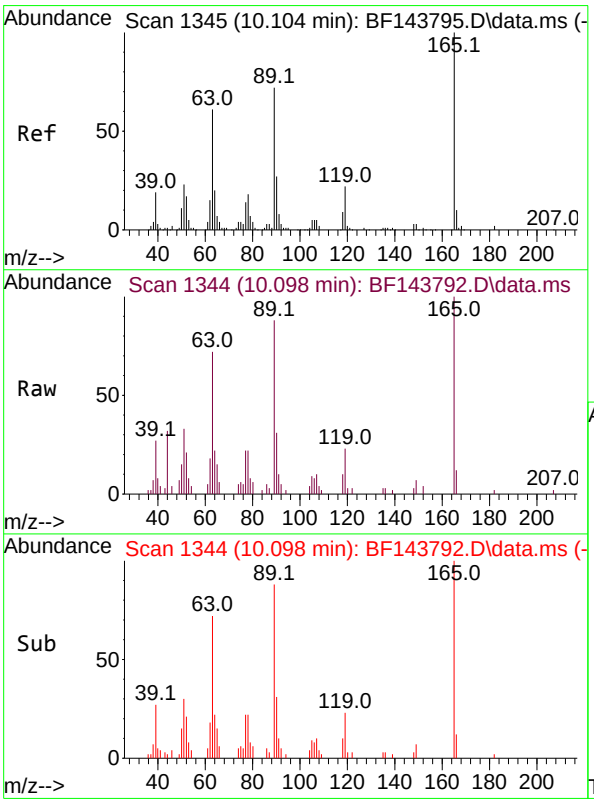
#55
Dibenzofuran
Concen: 5.524 ng
RT: 10.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:168 Resp: 104283

Ion	Ratio	Lower	Upper
168	100		
139	38.1	31.0	46.6
169	14.5	11.9	17.9

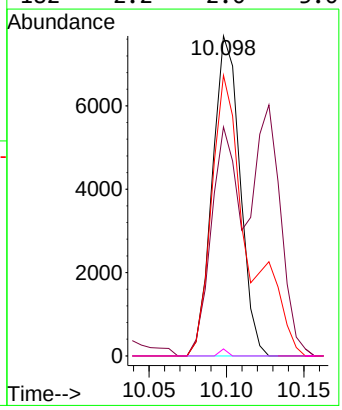


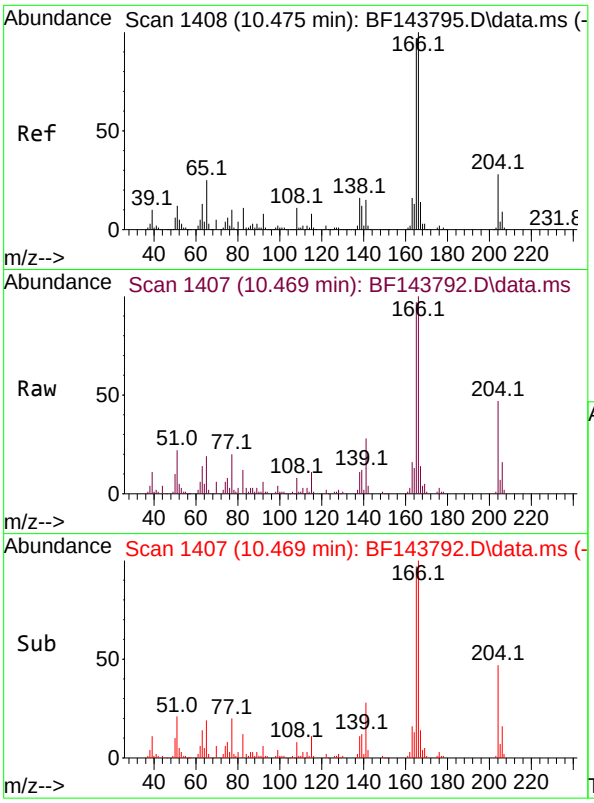


#57
2,4-Dinitrotoluene
Concen: 5.298 ng
RT: 10.098 min Scan# 1344
Delta R.T. -0.012 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:165 Resp: 9518

Ion	Ratio	Lower	Upper
165	100		
63	71.5	48.9	73.3
89	87.7	57.5	86.3#
182	2.2	2.0	3.0



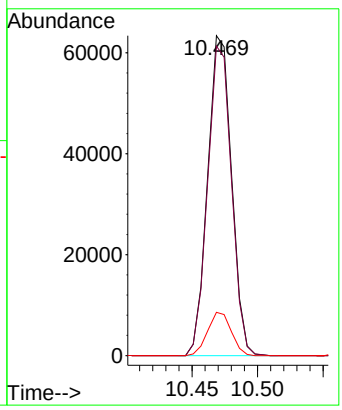


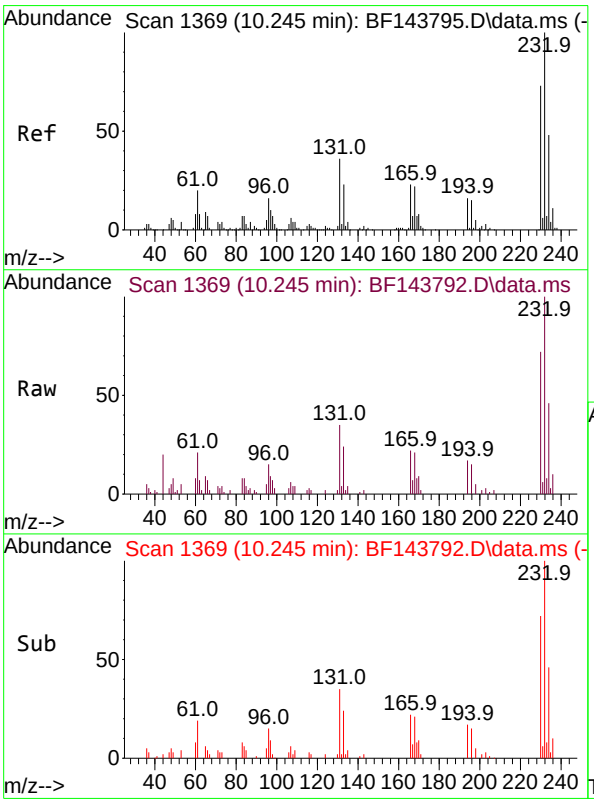
#58
Fluorene
Concen: 5.745 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:166 Resp: 80629

Ion	Ratio	Lower	Upper
166	100		
165	96.7	78.0	117.0
167	13.5	10.9	16.3

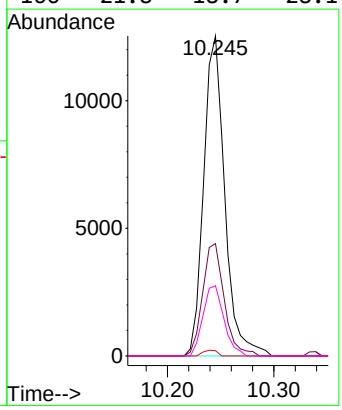


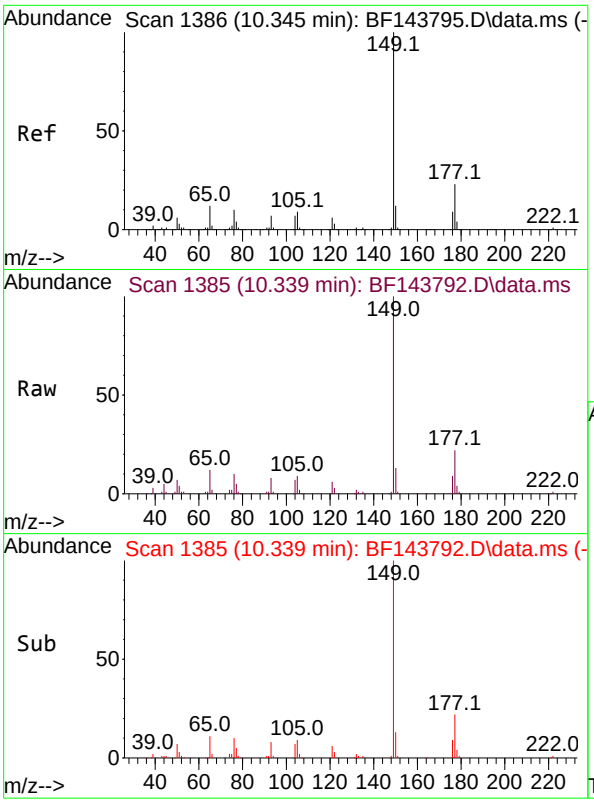


#59
2,3,4,6-Tetrachlorophenol
Concen: 4.017 ng
RT: 10.245 min Scan# 1369
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:232 Resp: 17203

Ion	Ratio	Lower	Upper
232	100		
131	35.9	29.4	44.2
130	1.2	1.3	1.9#
166	21.8	18.7	28.1



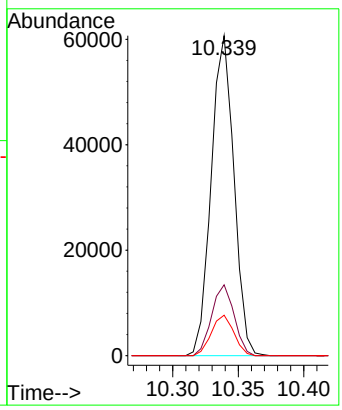


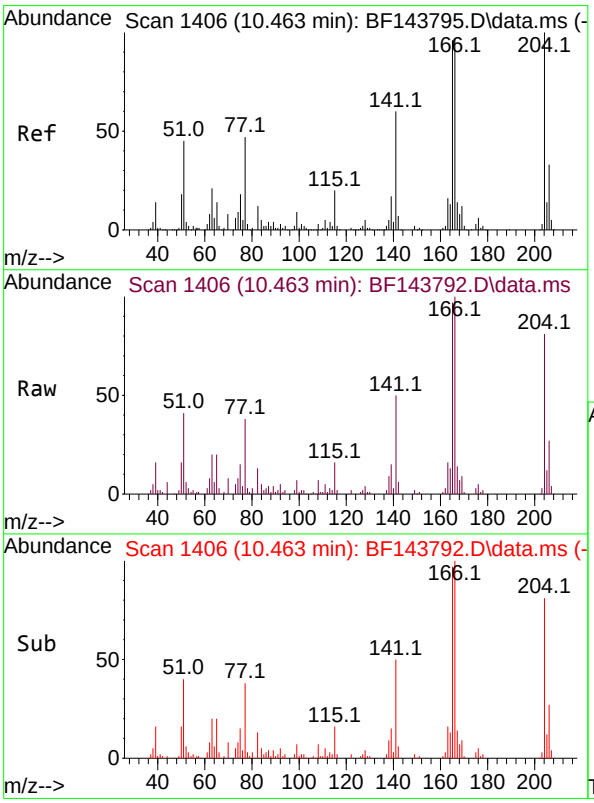
#60
Diethylphthalate
Concen: 5.076 ng
RT: 10.339 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 73247

Ion	Ratio	Lower	Upper
149	100		
177	22.1	18.1	27.1
150	12.6	9.7	14.5

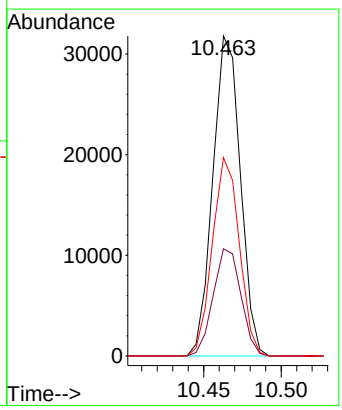


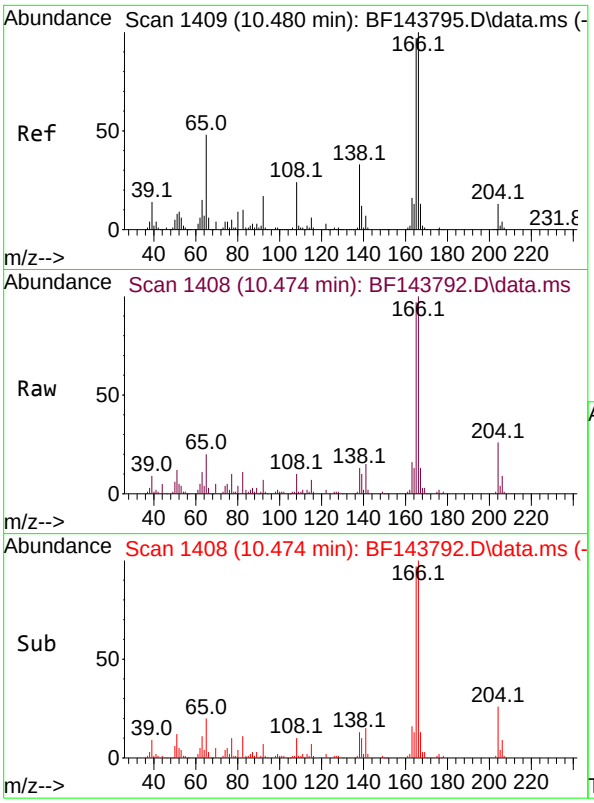


#61
4-Chlorophenyl-phenylether
Concen: 5.487 ng
RT: 10.463 min Scan# 1406
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:204 Resp: 39239

Ion	Ratio	Lower	Upper
204	100		
206	33.5	26.7	40.1
141	62.0	48.2	72.2



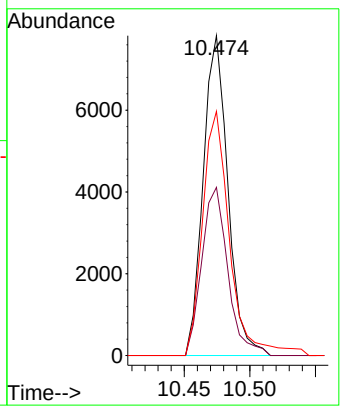


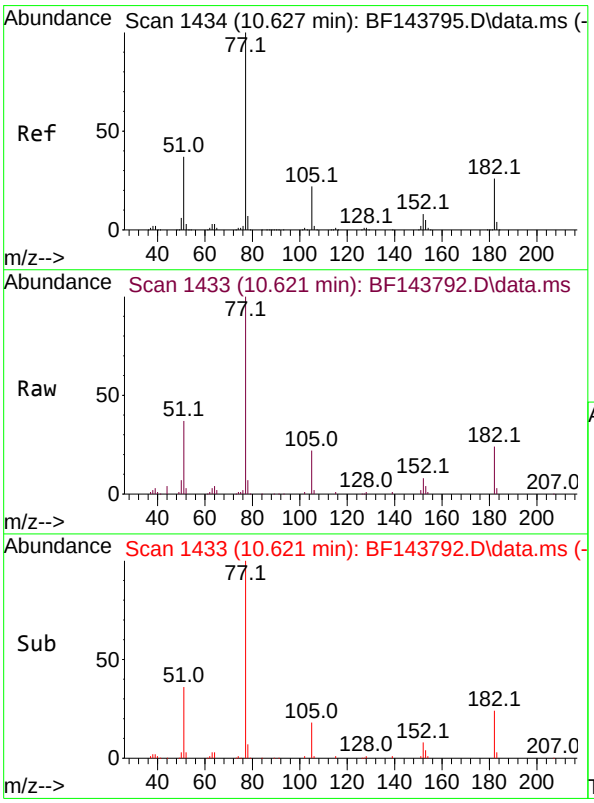
#62
4-Nitroaniline
Concen: 3.554 ng
RT: 10.474 min Scan# 14
Delta R.T. -0.018 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:138 Resp: 10259

Ion	Ratio	Lower	Upper
138	100		
92	52.6	31.5	71.5
108	76.3	51.9	91.9

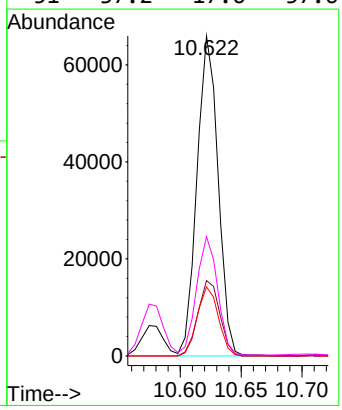


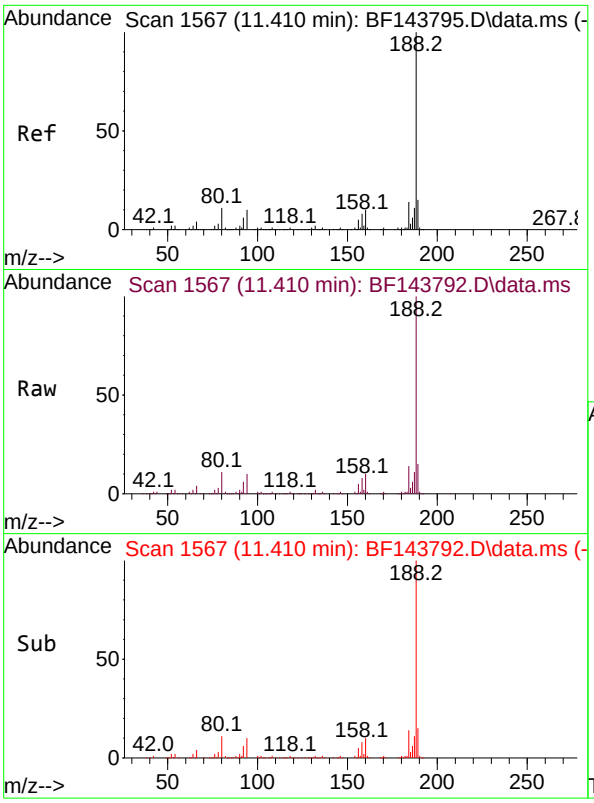


#63
Azobenzene
Concen: 5.240 ng
RT: 10.621 min Scan# 1433
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion: 77 Resp: 79697

Ion	Ratio	Lower	Upper
77	100		
182	23.5	5.9	45.9
105	21.6	2.3	42.3
51	37.2	17.6	57.6



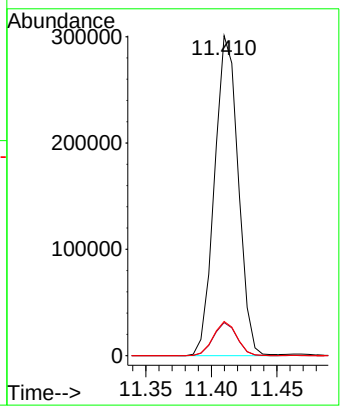


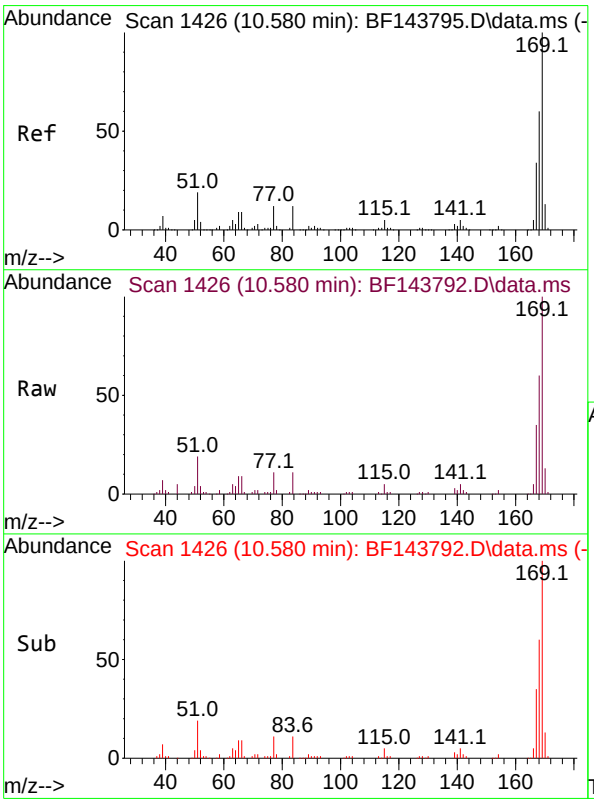
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:188 Resp: 379147

Ion	Ratio	Lower	Upper
188	100		
94	10.3	8.2	12.2
80	10.7	8.6	12.8

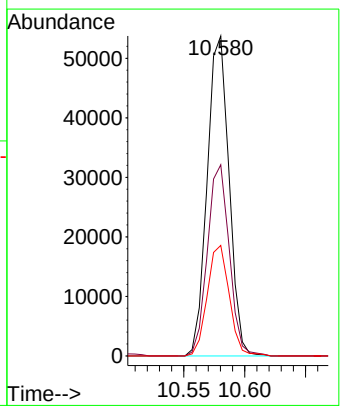


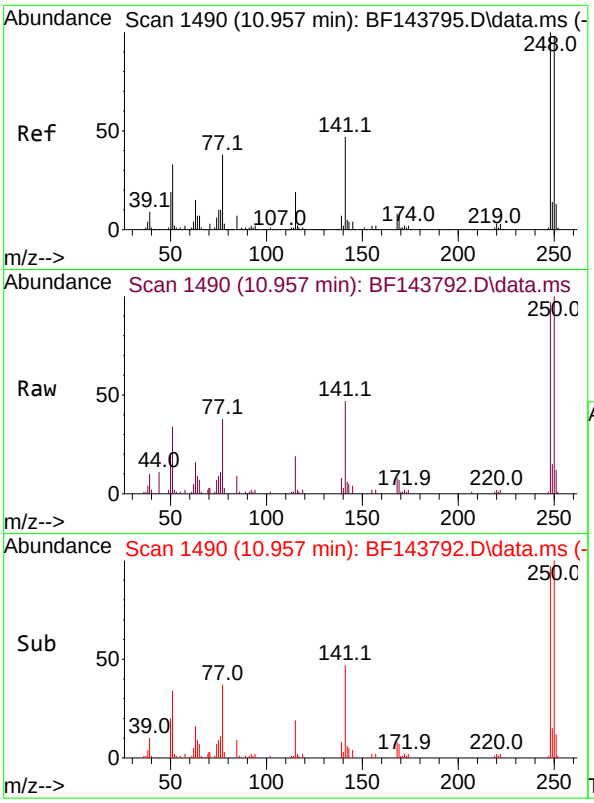


#66
n-Nitrosodiphenylamine
Concen: 5.378 ng
RT: 10.580 min Scan# 1426
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:169 Resp: 67054

Ion	Ratio	Lower	Upper
169	100		
168	59.7	47.9	71.9
167	34.5	27.0	40.6



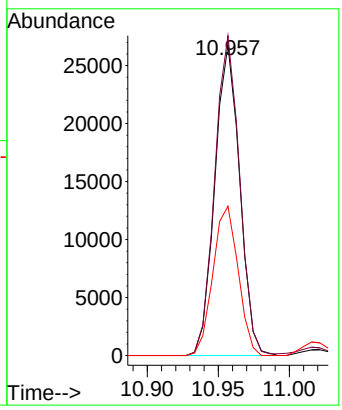


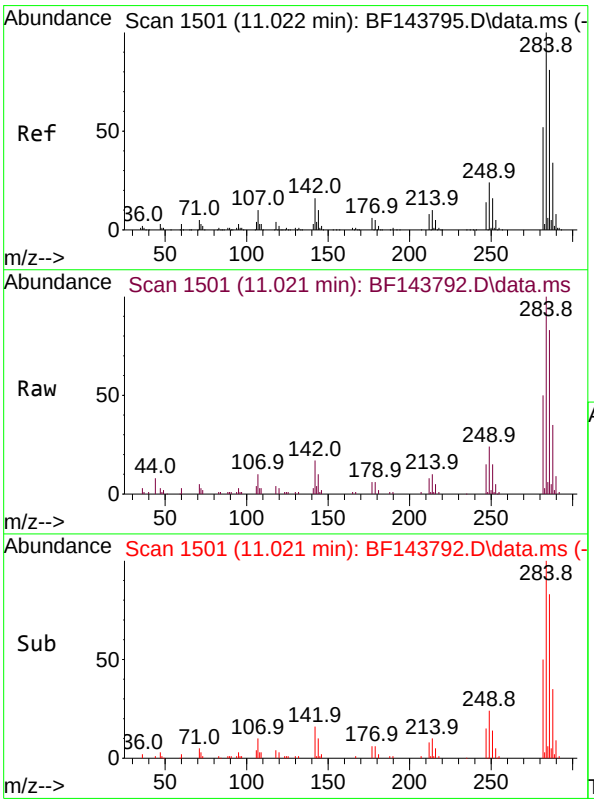
#67
4-Bromophenyl-phenylether
Concen: 5.047 ng
RT: 10.957 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:248 Resp: 32607

Ion	Ratio	Lower	Upper
248	100		
250	103.0	78.7	118.1
141	48.1	37.9	56.9

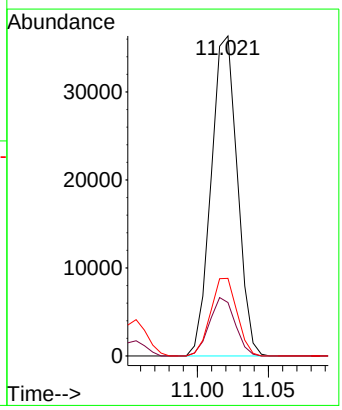


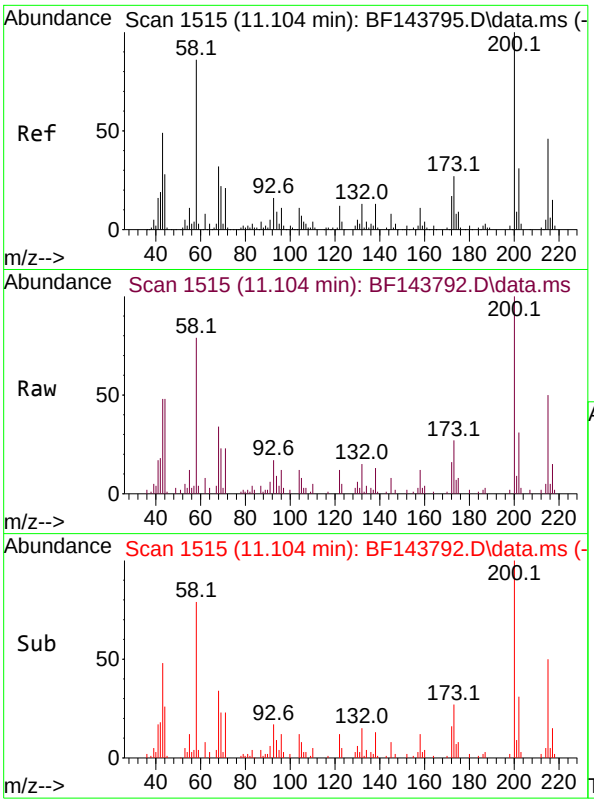


#68
Hexachlorobenzene
Concen: 5.238 ng
RT: 11.021 min Scan# 1501
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:284 Resp: 46642

Ion	Ratio	Lower	Upper
284	100		
142	16.7	13.1	19.7
249	24.2	19.5	29.3



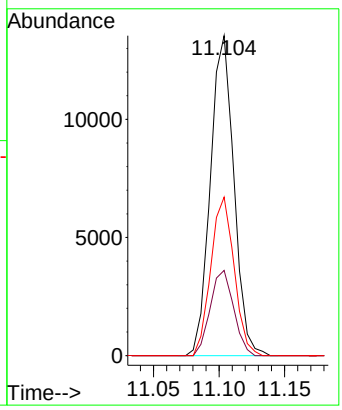


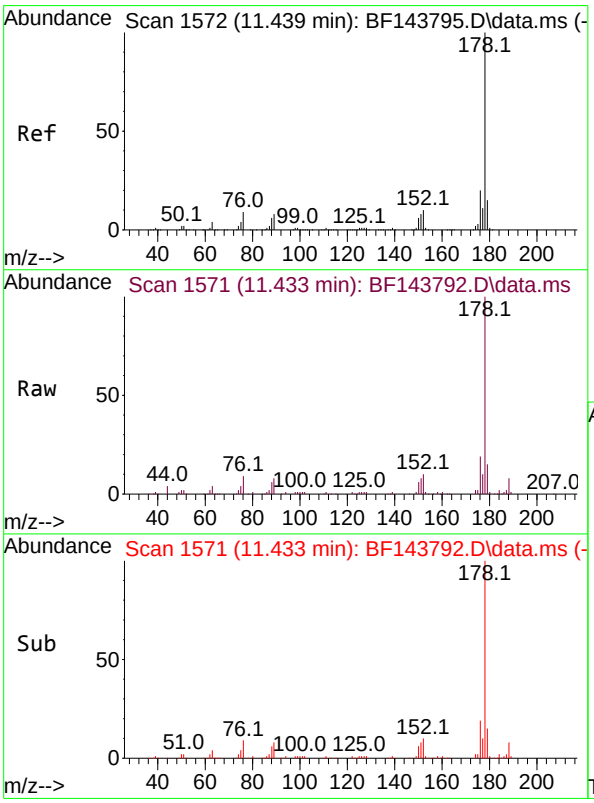
#69
Atrazine
Concen: 4.683 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:200 Resp: 16909

Ion	Ratio	Lower	Upper
200	100		
173	26.6	7.2	47.2
215	49.5	26.0	66.0

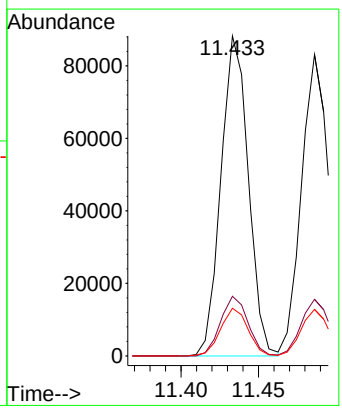


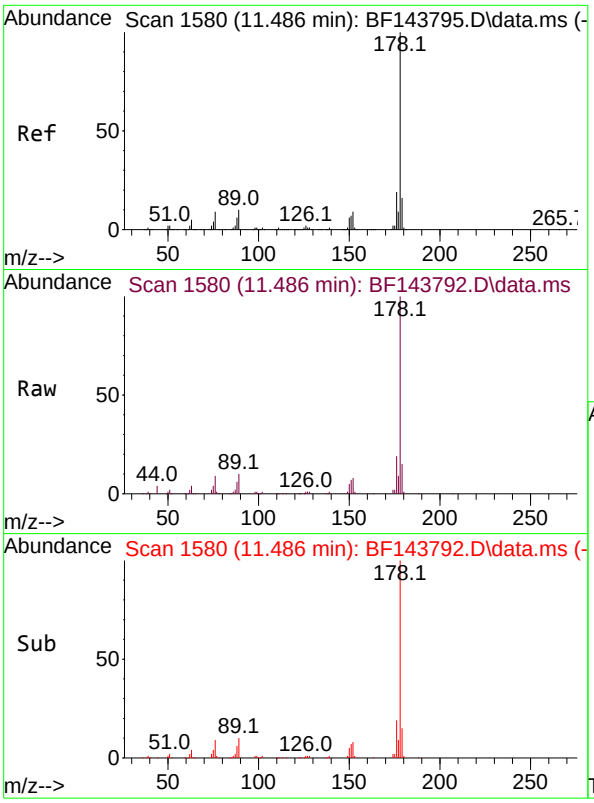


#71
Phenanthrene
Concen: 5.577 ng
RT: 11.433 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:178 Resp: 108554

Ion	Ratio	Lower	Upper
178	100		
176	18.6	15.6	23.4
179	14.9	12.2	18.4



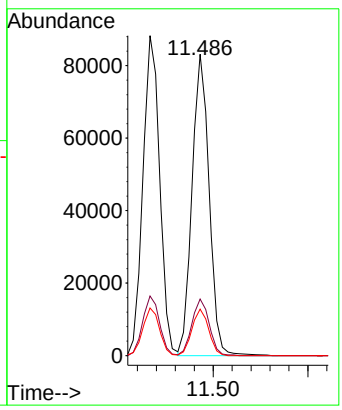


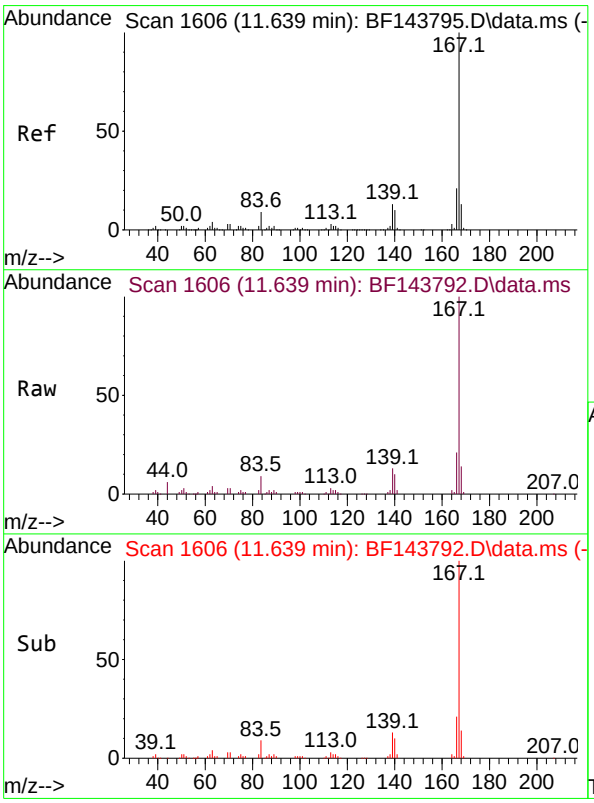
#72
Anthracene
Concen: 5.322 ng
RT: 11.486 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:178 Resp: 103911

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.3	22.9
179	15.4	12.8	19.2

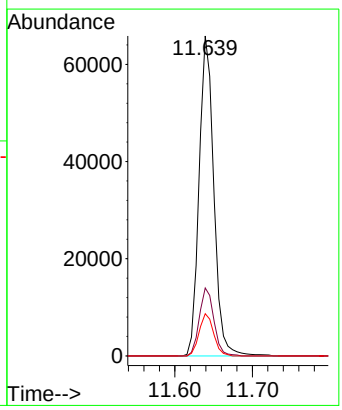


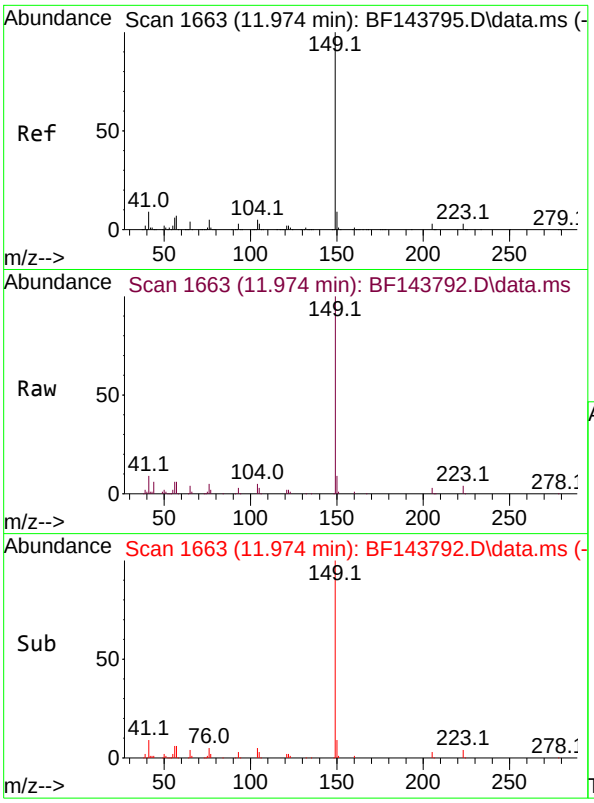


#73
Carbazole
Concen: 5.086 ng
RT: 11.639 min Scan# 1606
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:167 Resp: 86827

Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.0	25.4
139	13.2	10.6	15.8



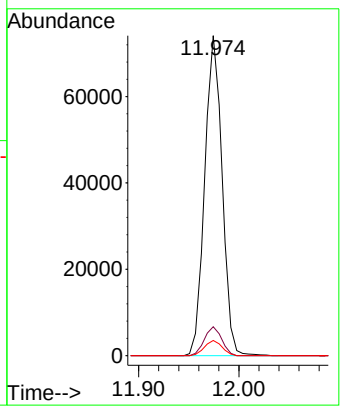


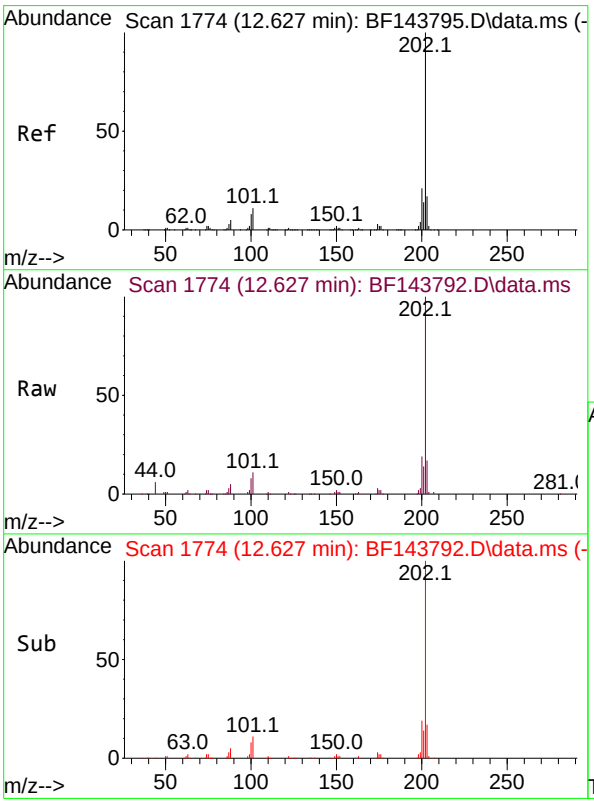
#74
Di-n-butylphthalate
Concen: 4.538 ng
RT: 11.974 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 89101

Ion	Ratio	Lower	Upper
149	100		
150	9.0	7.3	10.9
104	4.7	3.6	5.4

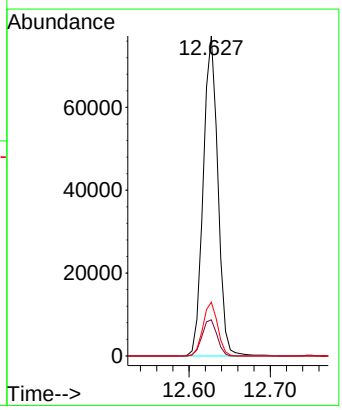


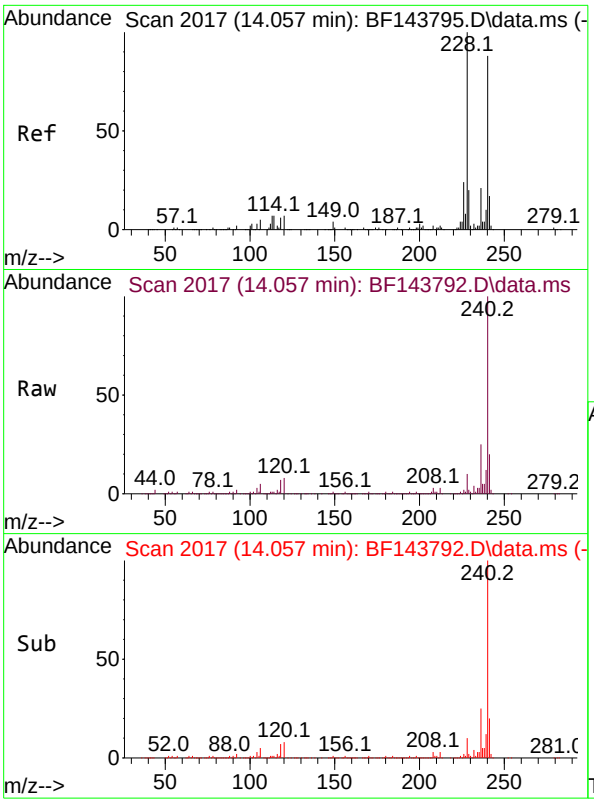


#75
Fluoranthene
Concen: 4.932 ng
RT: 12.627 min Scan# 1774
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:202 Resp: 96550

Ion	Ratio	Lower	Upper
202	100		
101	11.3	0.0	31.1
203	16.8	0.0	37.4



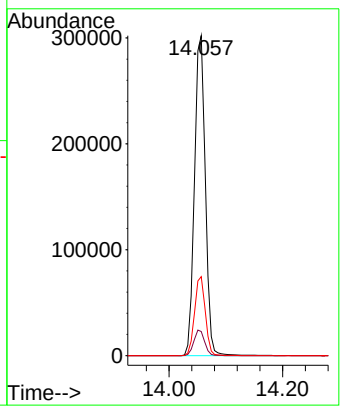


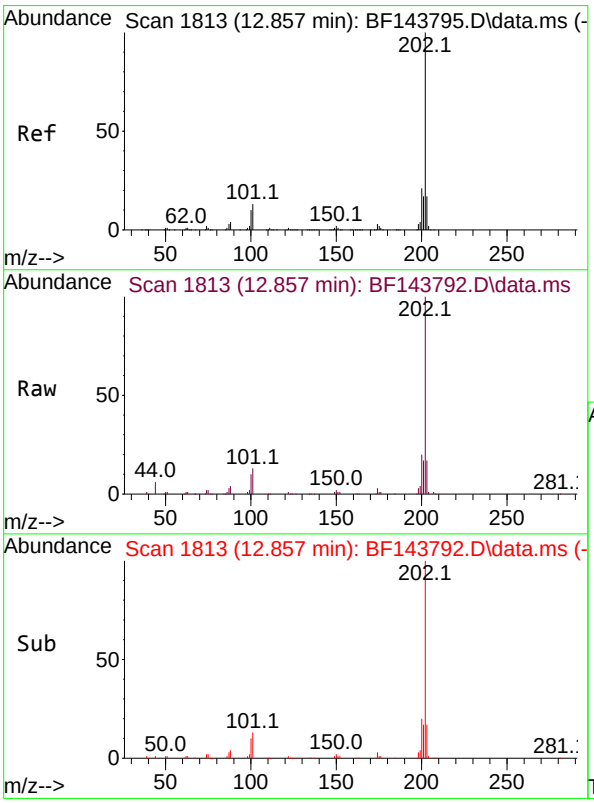
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:240 Resp: 398321

Ion	Ratio	Lower	Upper
240	100		
120	7.5	6.2	9.4
236	24.7	19.4	29.2

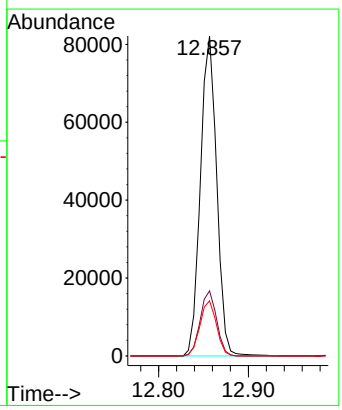


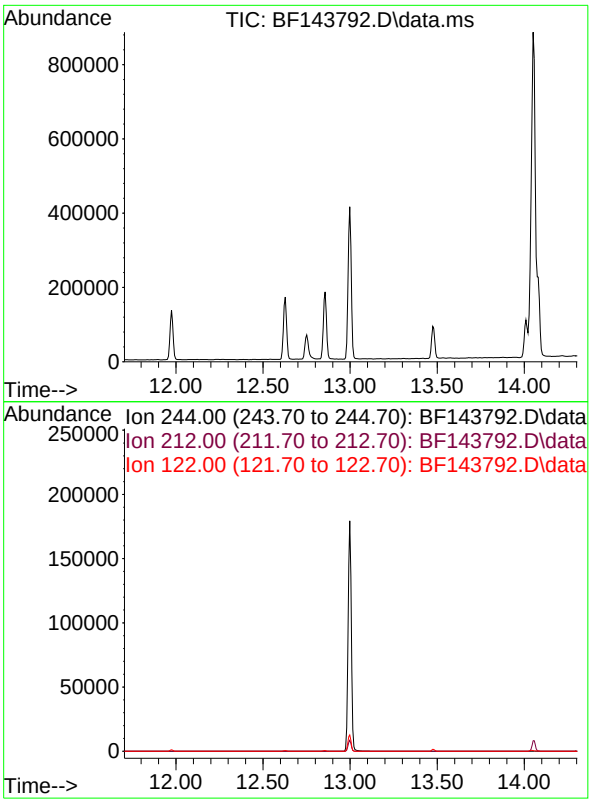


#78
Pyrene
Concen: 5.279 ng
RT: 12.857 min Scan# 1813
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:202 Resp: 103385

Ion	Ratio	Lower	Upper
202	100		
200	20.3	17.0	25.4
203	17.2	13.9	20.9





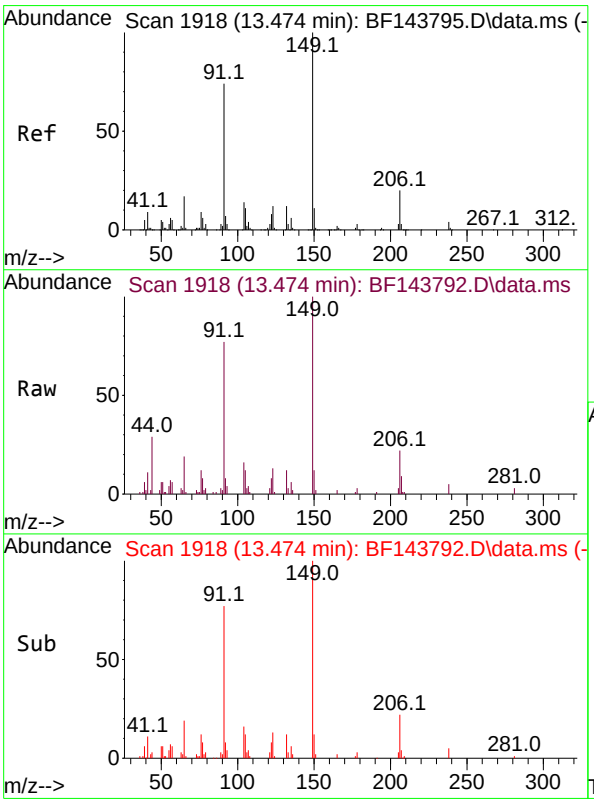
#79
Terphenyl-d14
Concen: 0.000 ng
Expected RT: 13.00 min

Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion: 244

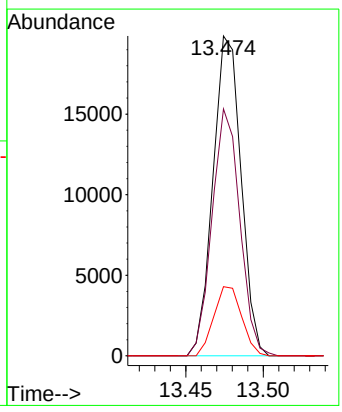
Sig	Exp Ratio
244	100
212	4.9
122	7.0

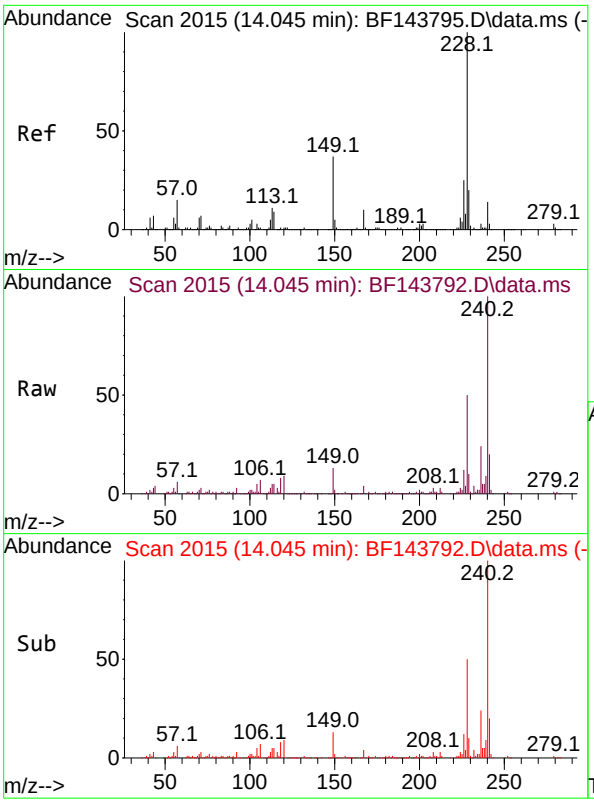


#80
Butylbenzylphthalate
Concen: 3.695 ng
RT: 13.474 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:149 Resp: 25033

Ion	Ratio	Lower	Upper
149	100		
91	77.2	59.5	89.3
206	21.6	16.1	24.1



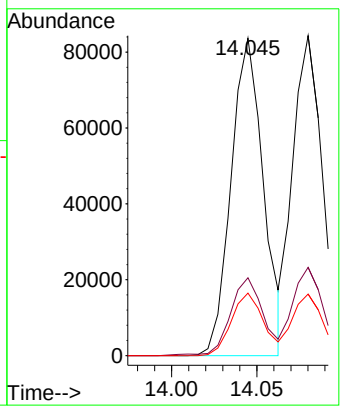


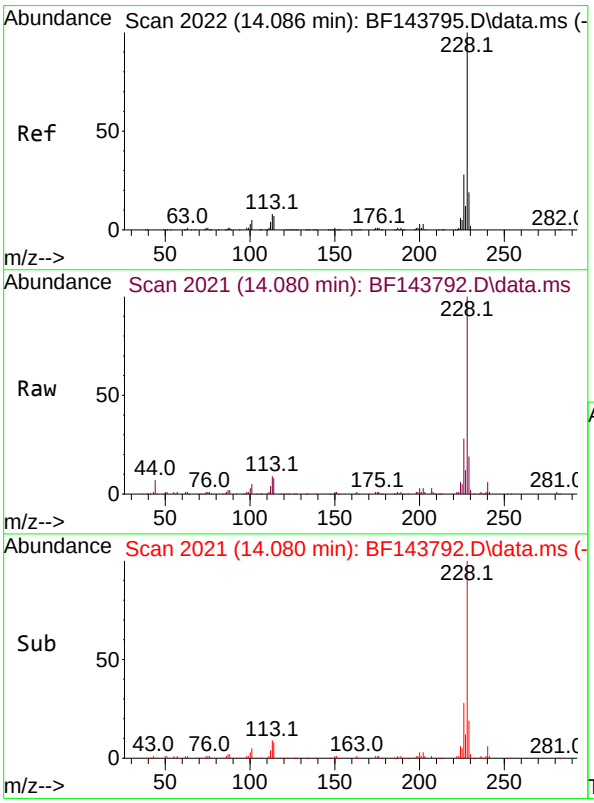
#81
Benzo(a)anthracene
Concen: 5.163 ng
RT: 14.045 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:228 Resp: 110473

Ion	Ratio	Lower	Upper
228	100		
226	24.5	20.2	30.2
229	19.7	16.1	24.1

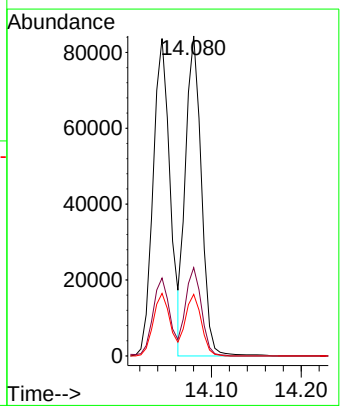


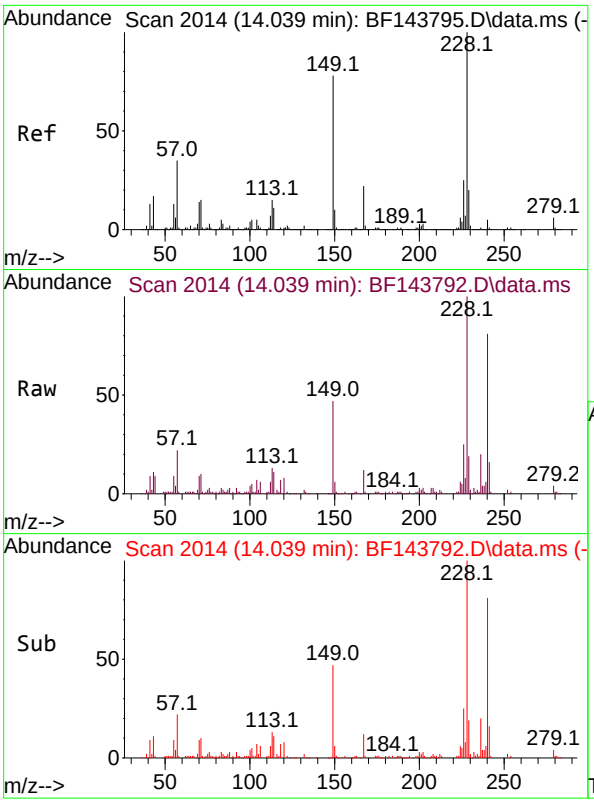


#83
Chrysene
Concen: 5.353 ng
RT: 14.080 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:228 Resp: 103643

Ion	Ratio	Lower	Upper
228	100		
226	27.6	22.6	33.8
229	19.2	15.6	23.4



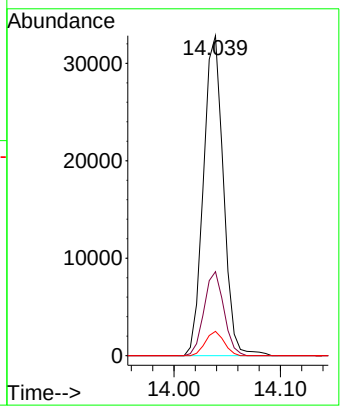


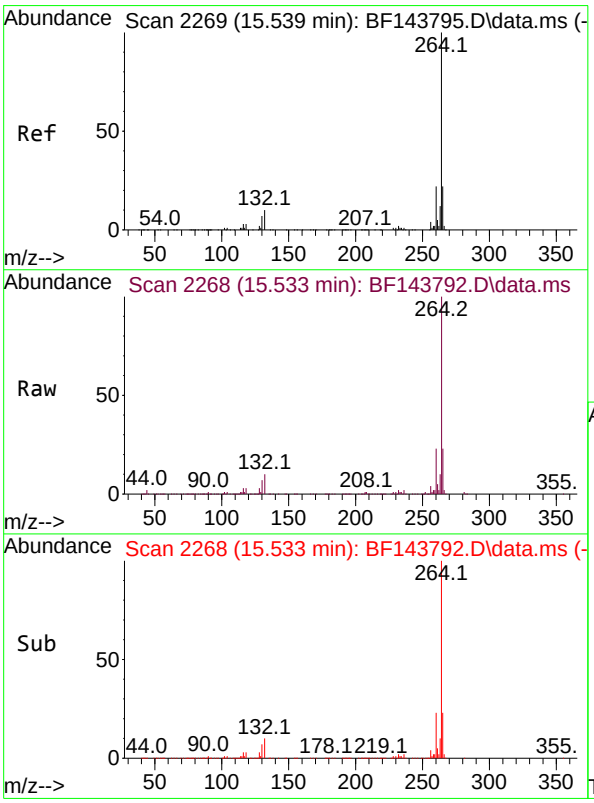
#84
Bis(2-ethylhexyl)phthalate
Concen: 4.295 ng
RT: 14.039 min Scan# 20
Delta R.T. -0.000 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:149 Resp: 42651

Ion	Ratio	Lower	Upper
149	100		
167	26.2	22.2	33.2
279	7.6	6.0	9.0

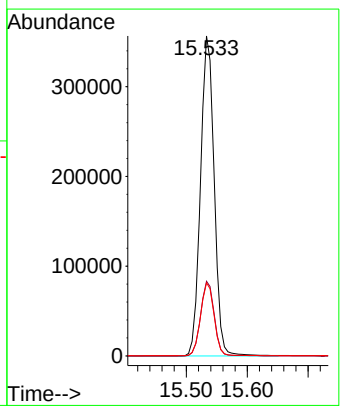


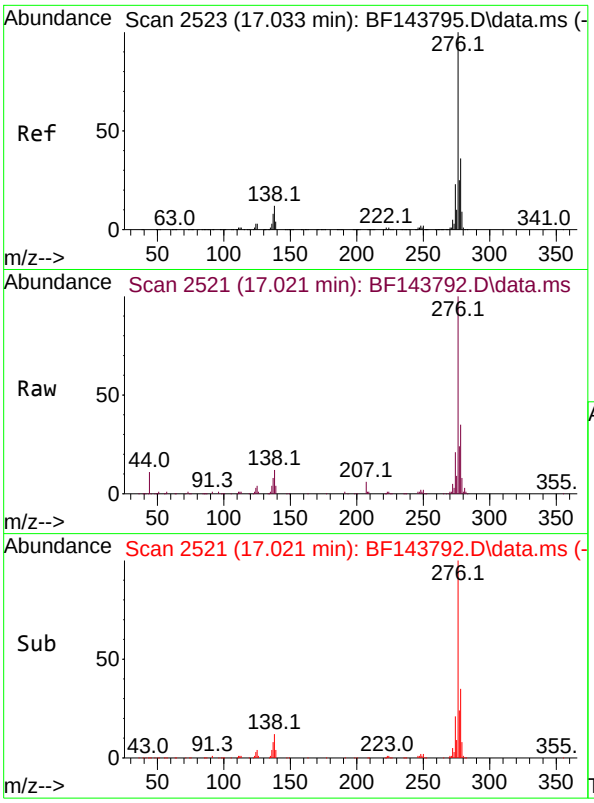


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:264 Resp: 555053

Ion	Ratio	Lower	Upper
264	100		
260	23.4	17.9	26.9
265	22.8	17.7	26.5



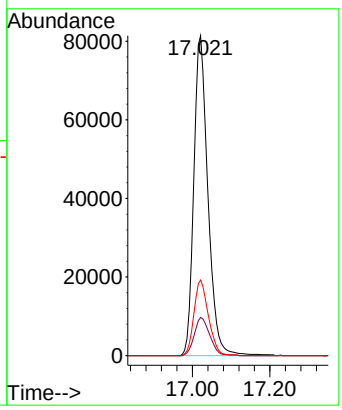


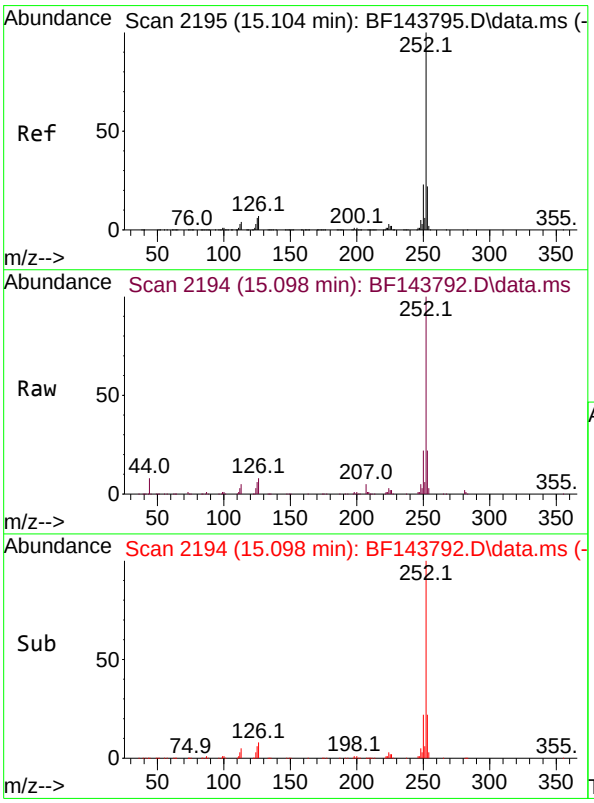
#87
Indeno(1,2,3-cd)pyrene
Concen: 4.886 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.024 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:276 Resp: 205787

Ion	Ratio	Lower	Upper
276	100		
138	13.0	10.6	15.8
277	24.3	20.7	31.1

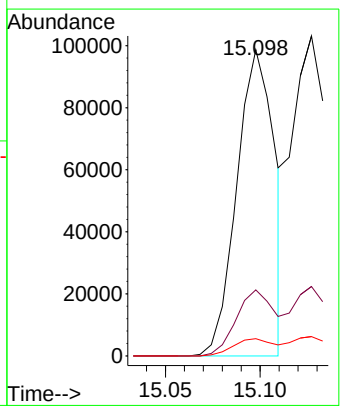


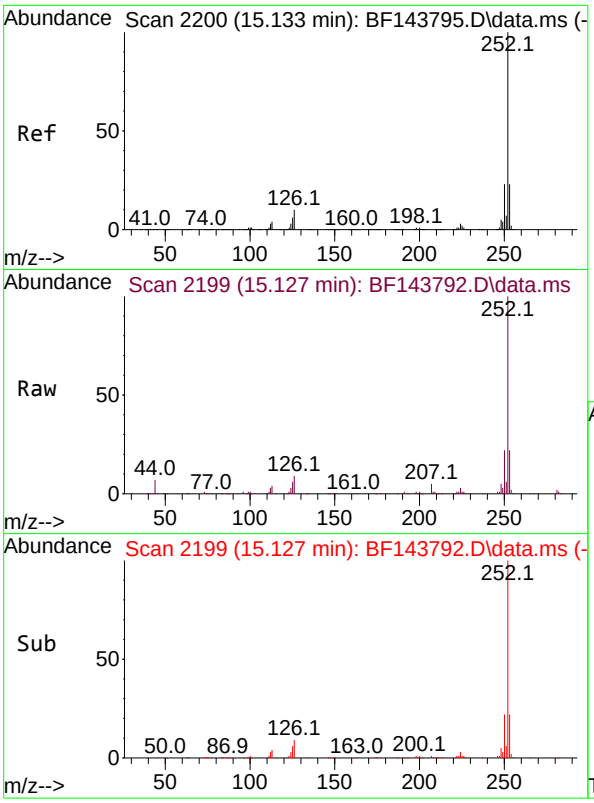


#88
Benzo(b)fluoranthene
Concen: 4.847 ng
RT: 15.098 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:252 Resp: 137015

Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.8	26.8
125	5.6	4.4	6.6



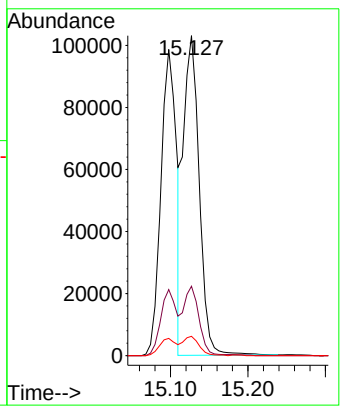


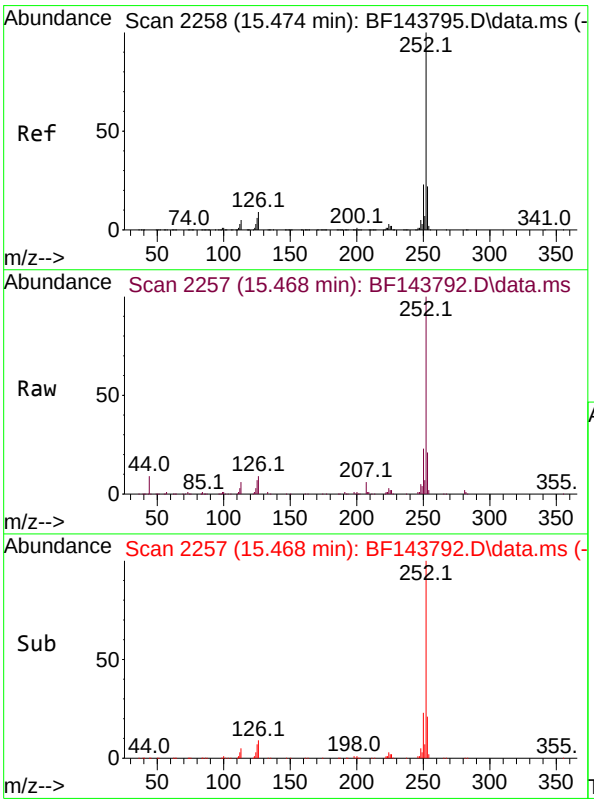
#89
Benzo(k)fluoranthene
Concen: 5.184 ng
RT: 15.127 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:252 Resp: 147201

Ion	Ratio	Lower	Upper
252	100		
253	21.7	17.9	26.9
125	6.0	4.6	6.8

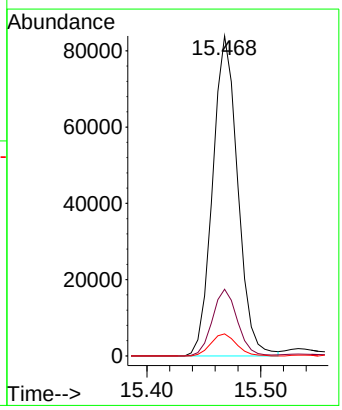


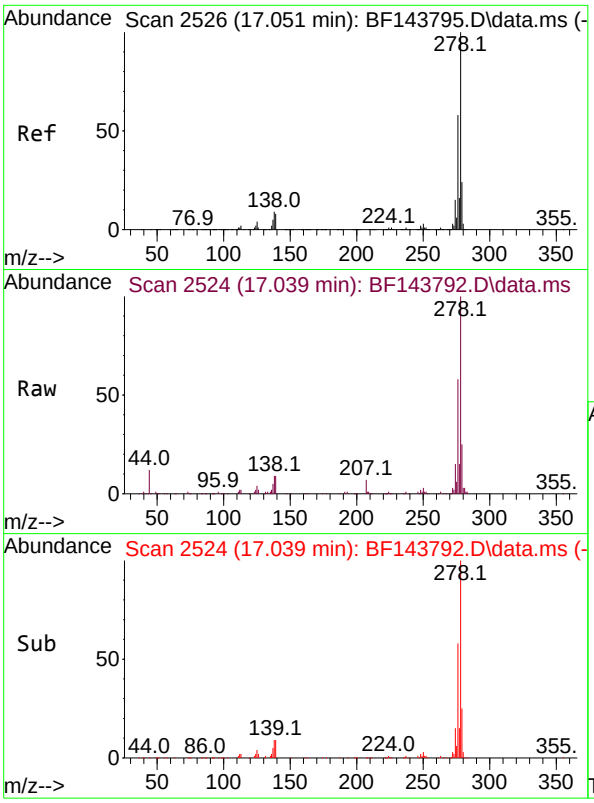


#90
Benzo(a)pyrene
Concen: 4.848 ng
RT: 15.468 min Scan# 2257
Delta R.T. -0.012 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:252 Resp: 128819

Ion	Ratio	Lower	Upper
252	100		
253	20.8	17.6	26.4
125	6.9	5.0	7.4



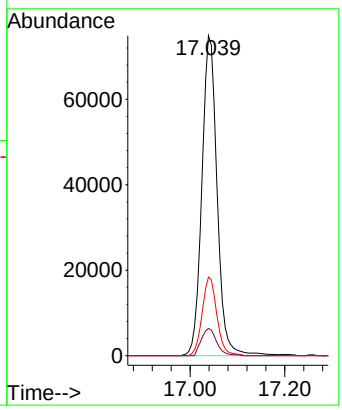


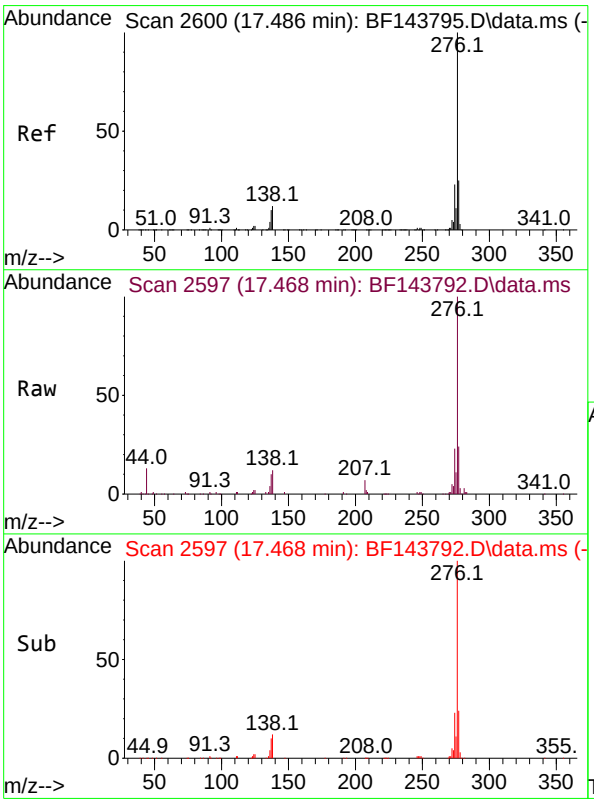
#91
Dibenzo(a,h)anthracene
Concen: 4.862 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

Tgt Ion:278 Resp: 167469

Ion	Ratio	Lower	Upper
278	100		
139	8.5	6.7	10.1
279	24.5	19.3	28.9

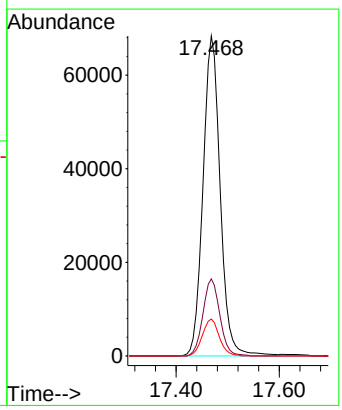




#92
Benzo(g,h,i)perylene
Concen: 4.741 ng
RT: 17.468 min Scan# 2597
Delta R.T. -0.035 min
Lab File: BF143792.D
Acq: 23 Sep 2025 10:58

Tgt Ion:276 Resp: 157425

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.6	29.4
138	11.5	9.2	13.8



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143793.D
Acq On : 23 Sep 2025 11:57
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Sep 23 17:06:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	132313	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	488285	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	239396	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	375125	20.000	ng	0.00
76) Chrysene-d12	14.051	240	430577	20.000	ng	-0.01
86) Perylene-d12	15.533	264	582350	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	166482	20.250	ng	-0.01
7) Phenol-d6	6.493	99	199435	20.556	ng	-0.02
23) Nitrobenzene-d5	7.440	82	150816	19.438	ng	-0.01
42) 2,4,6-Tribromophenol	10.710	330	72517	21.225	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	353299	21.809	ng	0.00
79) Terphenyl-d14	12.998	244	449442	20.493	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.640	88	38037	9.758	ng	97
3) Pyridine	3.410	79	100675	9.568	ng	99
4) n-Nitrosodimethylamine	3.334	42	49199	9.325	ng	97
6) Aniline	6.545	93	140265	10.271	ng	98
8) 2-Chlorophenol	6.663	128	82971	9.952	ng	99
9) Benzaldehyde	6.434	77	70550	8.562	ng	99
10) Phenol	6.510	94	113001	10.332	ng	96
11) bis(2-Chloroethyl)ether	6.616	93	87384	10.192	ng	97
12) 1,3-Dichlorobenzene	6.828	146	98776	10.204	ng	99
13) 1,4-Dichlorobenzene	6.904	146	99003	10.249	ng	99
14) 1,2-Dichlorobenzene	7.057	146	93067	10.172	ng	99
15) Benzyl Alcohol	7.016	79	67639	9.948	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.157	45	207456	10.204	ng	99
17) 2-Methylphenol	7.122	107	65621	10.167	ng	99
18) Hexachloroethane	7.398	117	33843	9.962	ng	98
19) n-Nitroso-di-n-propyla...	7.287	70	61660	10.190	ng	99
20) 3+4-Methylphenols	7.275	107	84574	10.760	ng	96
22) Acetophenone	7.287	105	113726	10.604	ng	99
24) Nitrobenzene	7.463	77	86488	9.782	ng	98
25) Isophorone	7.698	82	155268	9.989	ng	99
26) 2-Nitrophenol	7.781	139	25281	9.284	ng	99
27) 2,4-Dimethylphenol	7.810	122	68320	9.833	ng	99
28) bis(2-Chloroethoxy)met...	7.910	93	104902	10.387	ng	99
29) 2,4-Dichlorophenol	8.016	162	69731	10.200	ng	97
30) 1,2,4-Trichlorobenzene	8.110	180	70340	9.914	ng	97
31) Naphthalene	8.187	128	249230	10.662	ng	99
32) Benzoic acid	7.875	122	30248	9.023	ng	97
33) 4-Chloroaniline	8.234	127	84740	10.316	ng	99
34) Hexachlorobutadiene	8.310	225	53434	10.103	ng	98
35) Caprolactam	8.563	113	16062	9.192	ng	96
36) 4-Chloro-3-methylphenol	8.704	107	63361	9.882	ng	97
37) 2-Methylnaphthalene	8.881	142	158654	10.644	ng	99
38) 1-Methylnaphthalene	8.981	142	150831	10.572	ng	98
40) 1,2,4,5-Tetrachloroben...	9.045	216	75923	10.509	ng	100
41) Hexachlorocyclopentadiene	9.034	237	40258	8.792	ng	99
43) 2,4,6-Trichlorophenol	9.151	196	42859	9.474	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143793.D
Acq On : 23 Sep 2025 11:57
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Sep 23 17:06:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.186	196	46791	9.889	ng		98
46) 1,1'-Biphenyl	9.345	154	184443	10.644	ng		98
47) 2-Chloronaphthalene	9.369	162	146409	10.496	ng		100
48) 2-Nitroaniline	9.457	65	36451	8.646	ng		93
49) Acenaphthylene	9.781	152	198522	10.338	ng		100
50) Dimethylphthalate	9.633	163	147631	10.118	ng		100
51) 2,6-Dinitrotoluene	9.698	165	19239	8.025	ng		90
52) Acenaphthene	9.957	154	134197	10.619	ng		99
53) 3-Nitroaniline	9.869	138	25136	8.650	ng	#	96
54) 2,4-Dinitrophenol	9.969	184	6231	11.233	ng	#	1
55) Dibenzofuran	10.128	168	185710	10.393	ng		100
56) 4-Nitrophenol	10.016	139	23569	10.065	ng		98
57) 2,4-Dinitrotoluene	10.098	165	25096	9.543	ng		94
58) Fluorene	10.469	166	144778	10.898	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.239	232	36970	9.120	ng		100
60) Diethylphthalate	10.339	149	140054	10.254	ng		98
61) 4-Chlorophenyl-phenyle...	10.463	204	70883	10.472	ng		99
62) 4-Nitroaniline	10.475	138	24435	8.943	ng		98
63) Azobenzene	10.622	77	146130	10.152	ng		99
65) 4,6-Dinitro-2-methylph...	10.504	198	8417	10.867	ng		98
66) n-Nitrosodiphenylamine	10.580	169	126584	10.261	ng		98
67) 4-Bromophenyl-phenylether	10.957	248	62547	9.784	ng		99
68) Hexachlorobenzene	11.016	284	88177	10.009	ng		98
69) Atrazine	11.104	200	35762	10.010	ng		97
70) Pentachlorophenol	11.210	266	33783	7.704	ng		98
71) Phenanthrene	11.433	178	200025	10.386	ng		99
72) Anthracene	11.486	178	200505	10.379	ng		97
73) Carbazole	11.639	167	174601	10.337	ng		98
74) Di-n-butylphthalate	11.975	149	189120	9.736	ng		99
75) Fluoranthene	12.627	202	196207	10.129	ng		100
77) Benzidine	12.751	184	94401	8.997	ng		99
78) Pyrene	12.857	202	211336	9.983	ng		99
80) Butylbenzylphthalate	13.474	149	64090	8.751	ng		99
81) Benzo(a)anthracene	14.045	228	232722	10.061	ng		99
82) 3,3'-Dichlorobenzidine	14.010	252	91789	9.160	ng		99
83) Chrysene	14.080	228	212098	10.133	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	102600	9.557	ng		98
85) Di-n-octyl phthalate	14.651	149	165178	8.482	ng		99
87) Indeno(1,2,3-cd)pyrene	17.021	276	415337	9.400	ng		99
88) Benzo(b)fluoranthene	15.098	252	292308	9.857	ng		99
89) Benzo(k)fluoranthene	15.127	252	292238	9.808	ng		99
90) Benzo(a)pyrene	15.468	252	267775	9.606	ng		99
91) Dibenzo(a,h)anthracene	17.039	278	345636	9.564	ng		98
92) Benzo(g,h,i)perylene	17.468	276	324982	9.329	ng		99

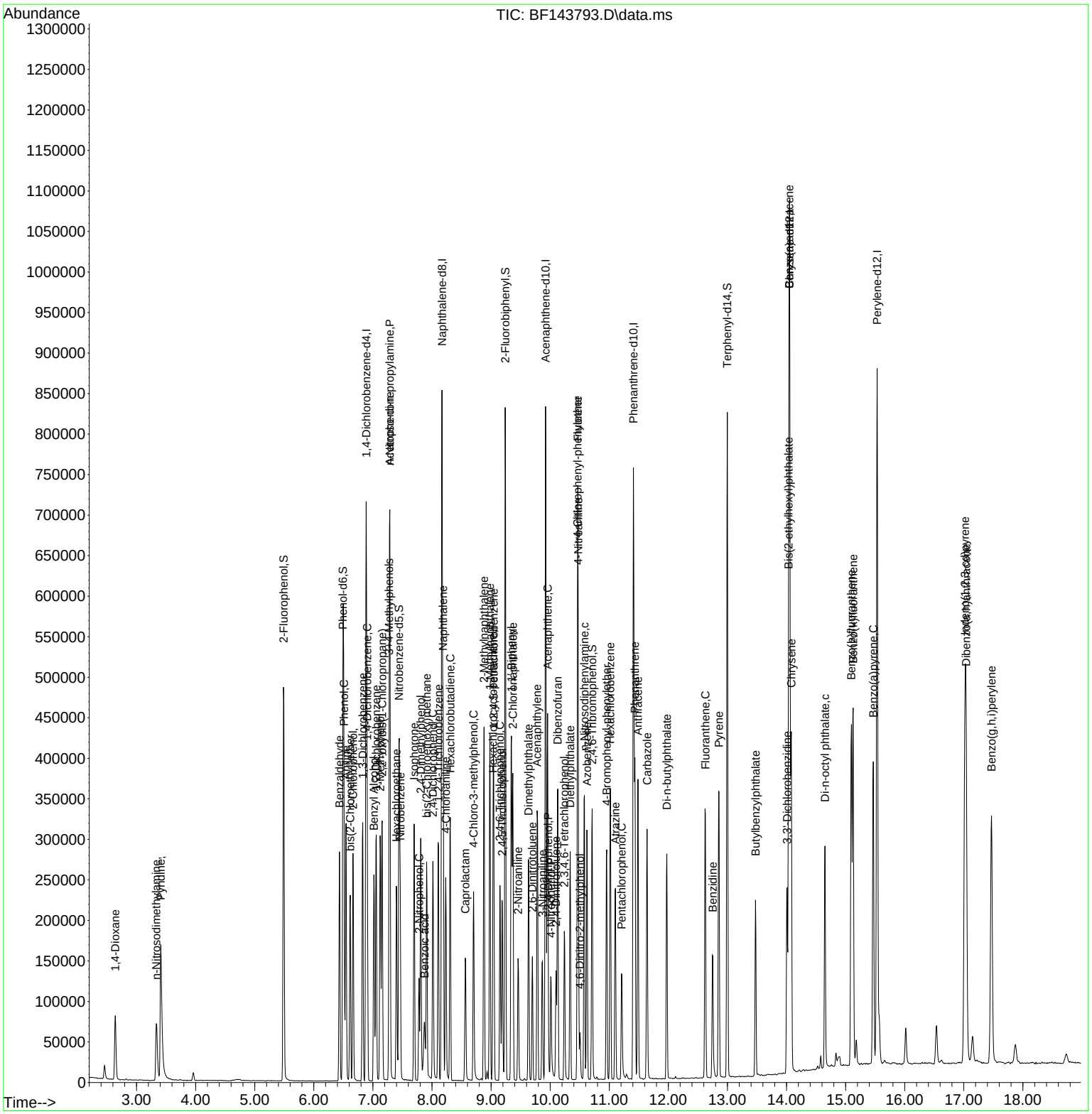
(#) = qualifier out of range (m) = manual integration (+) = signals summed

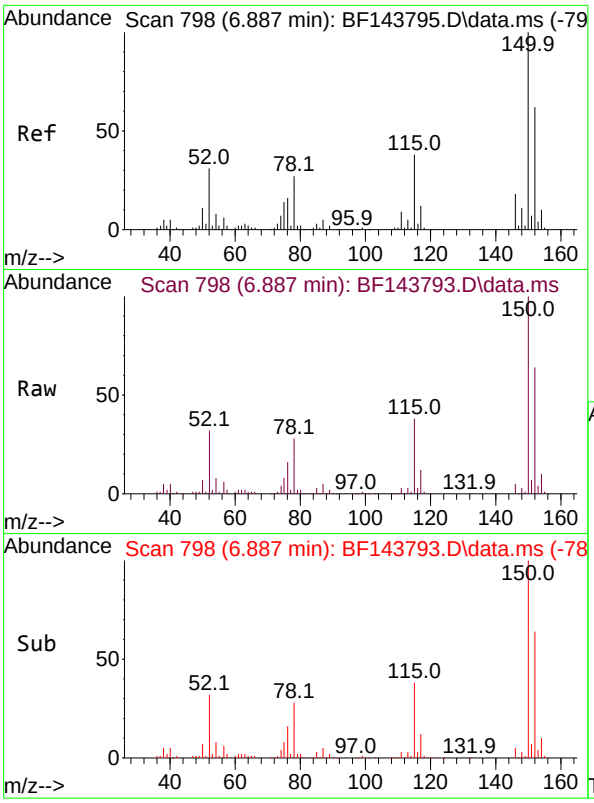
ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143793.D
Acq On : 23 Sep 2025 11:57
Operator : RC/JU
Sample : SSTDICC010
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Quant Time: Sep 23 17:06:19 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration



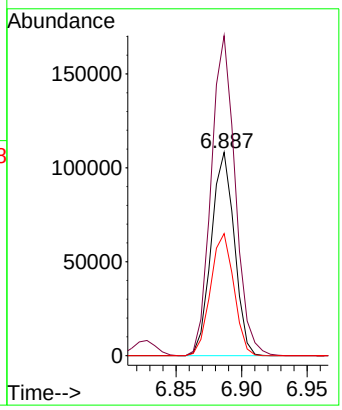


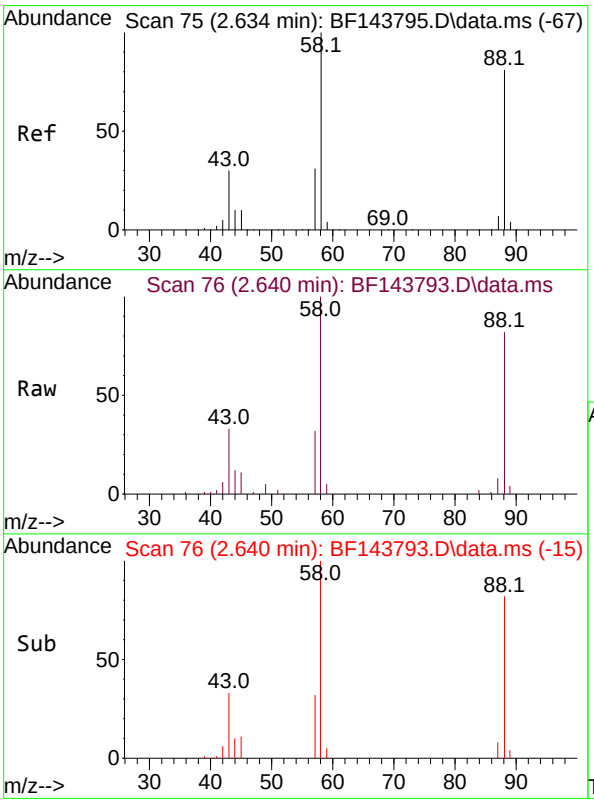
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 79
Delta R.T. -0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 132313

Ion	Ratio	Lower	Upper
152	100		
150	157.4	129.6	194.4
115	60.0	49.0	73.4

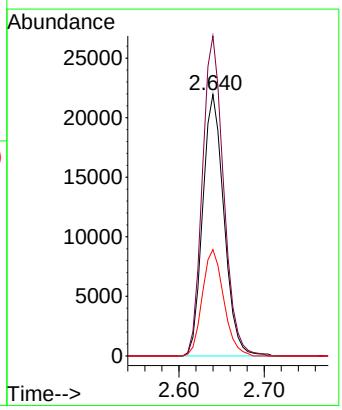


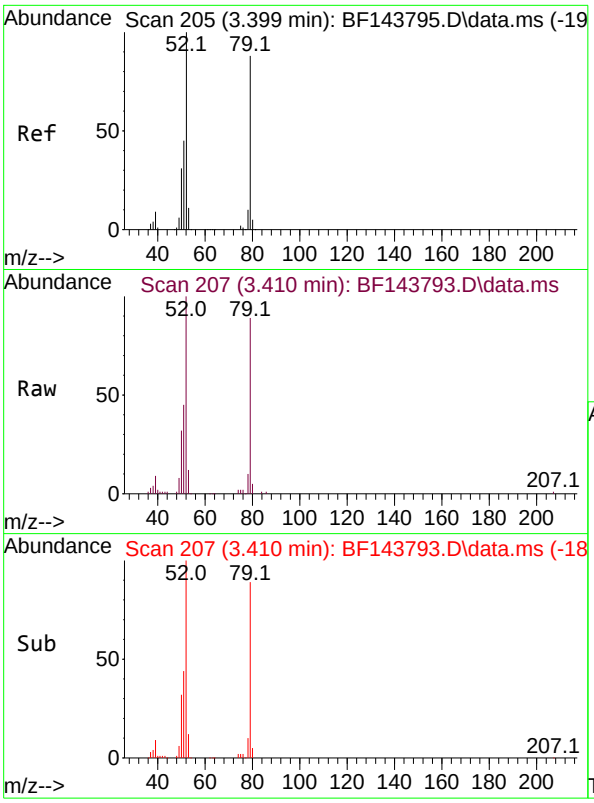


#2
1,4-Dioxane
Concen: 9.758 ng
RT: 2.640 min Scan# 76
Delta R.T. 0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion: 88 Resp: 38037

Ion	Ratio	Lower	Upper
88	100		
58	121.6	99.4	149.2
43	40.9	30.6	45.8



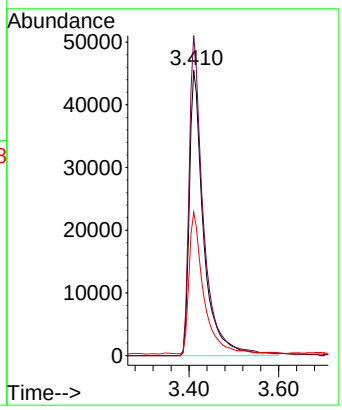


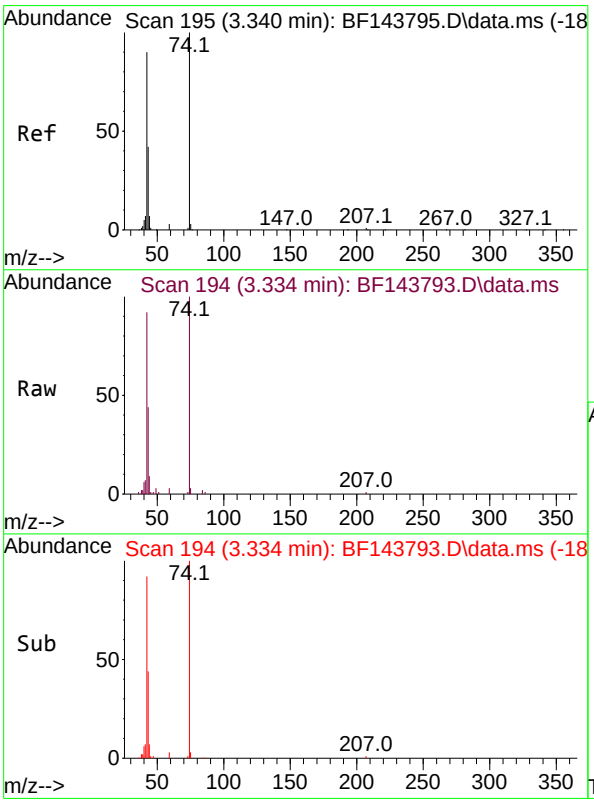
#3
Pyridine
Concen: 9.568 ng
RT: 3.410 min Scan# 20
Delta R.T. 0.012 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 100675

Ion	Ratio	Lower	Upper
79	100		
52	112.2	90.5	135.7
51	50.3	40.6	61.0

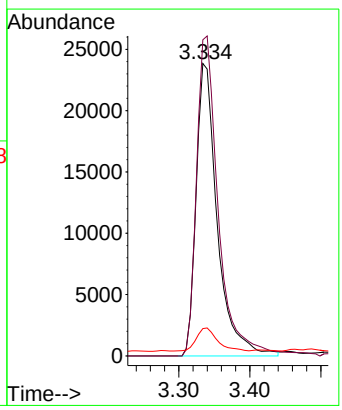


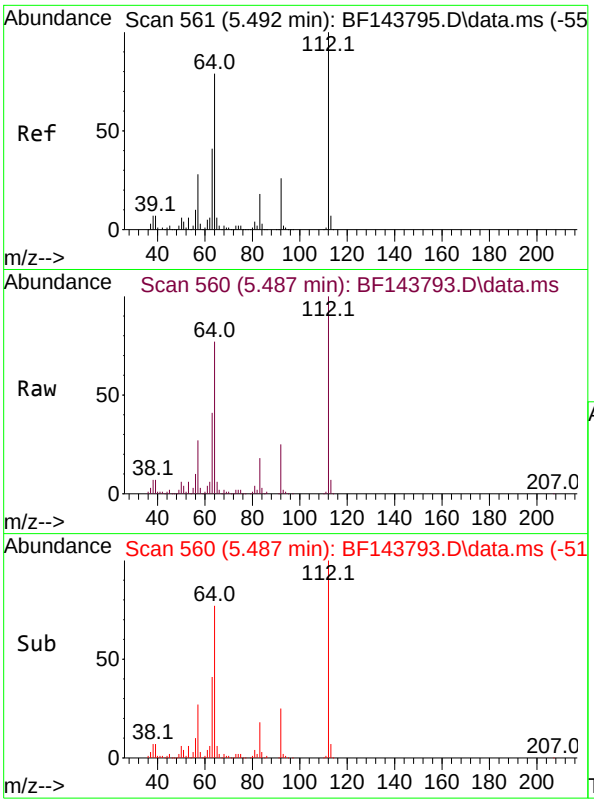


#4
n-Nitrosodimethylamine
Concen: 9.325 ng
RT: 3.334 min Scan# 194
Delta R.T. -0.023 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion: 42 Resp: 49199

Ion	Ratio	Lower	Upper
42	100		
74	108.1	89.1	133.7
44	9.3	6.4	9.6



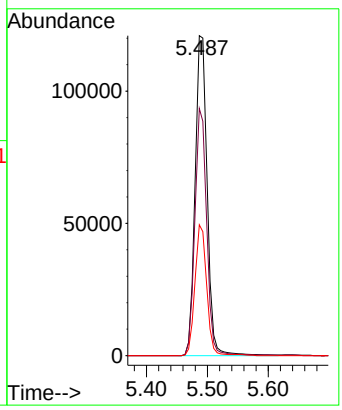


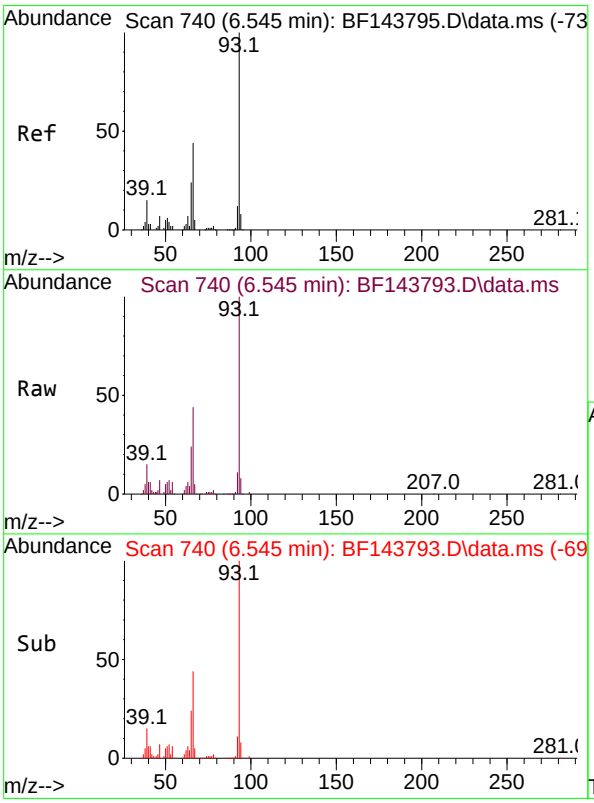
#5
2-Fluorophenol
Concen: 20.250 ng
RT: 5.487 min Scan# 5
Delta R.T. -0.012 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:112 Resp: 166482

Ion	Ratio	Lower	Upper
112	100		
64	77.2	63.0	94.4
63	40.9	32.6	49.0

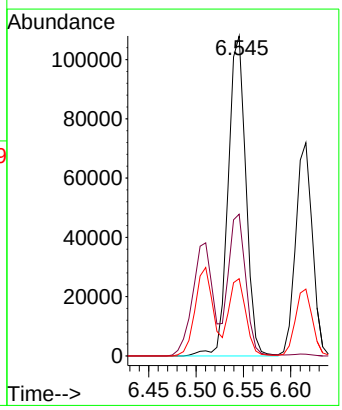


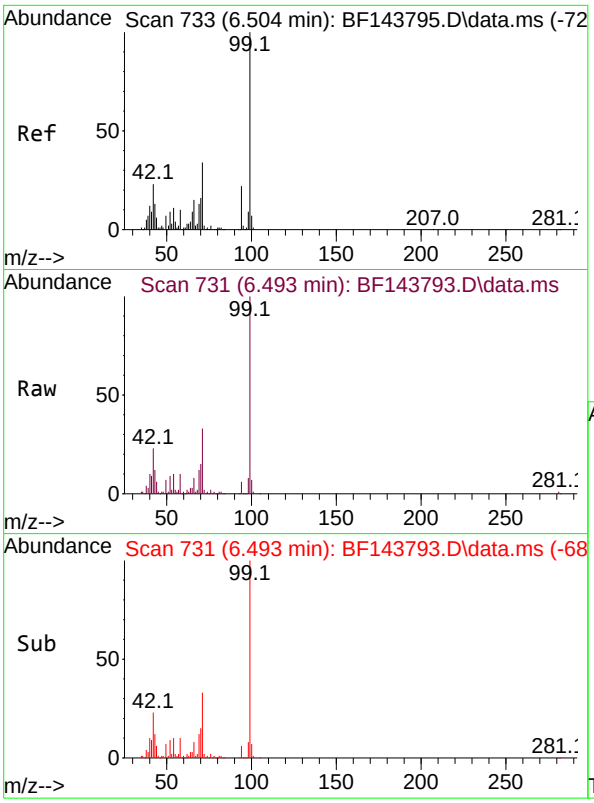


#6
Aniline
Concen: 10.271 ng
RT: 6.545 min Scan# 740
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion: 93 Resp: 140265

Ion	Ratio	Lower	Upper
93	100		
66	44.3	37.1	55.7
65	24.1	19.4	29.0



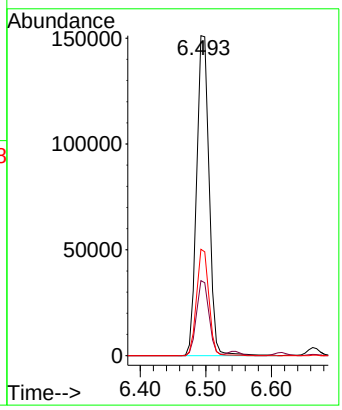


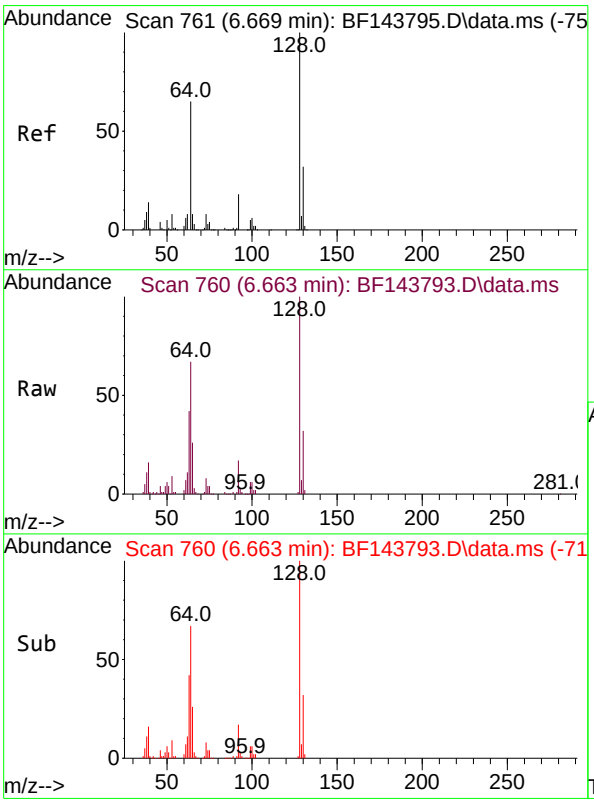
#7
Phenol-d6
Concen: 20.556 ng
RT: 6.493 min Scan# 7
Delta R.T. -0.018 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 99 Resp: 199435

Ion	Ratio	Lower	Upper
99	100		
42	23.4	18.6	28.0
71	33.2	27.0	40.4

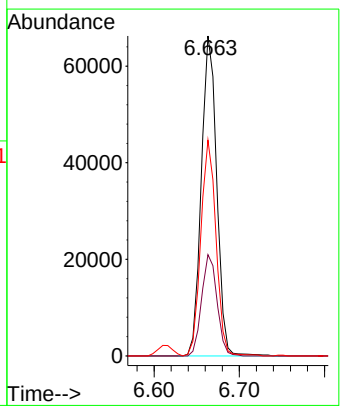


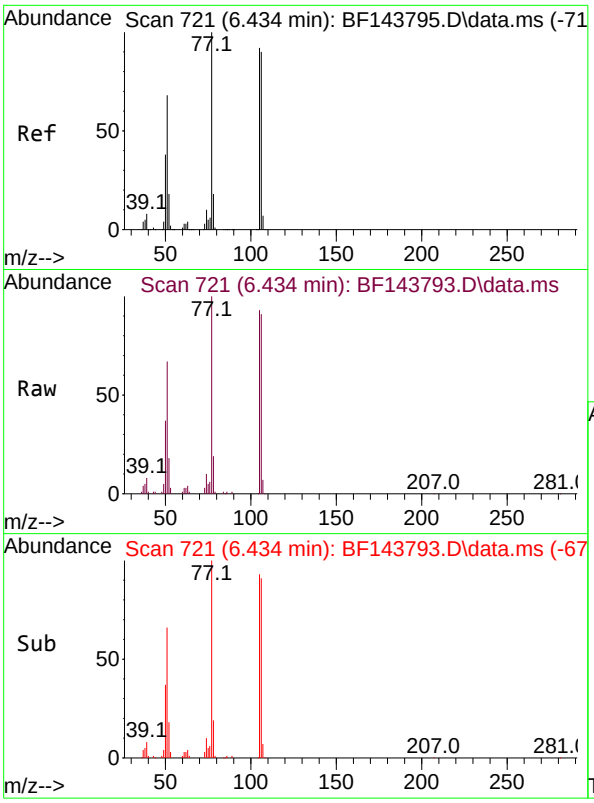


#8
2-Chlorophenol
Concen: 9.952 ng
RT: 6.663 min Scan# 760
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:128 Resp: 82971

Ion	Ratio	Lower	Upper
128	100		
130	31.7	12.2	52.2
64	67.4	46.5	86.5



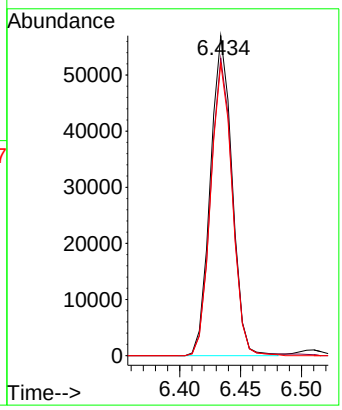


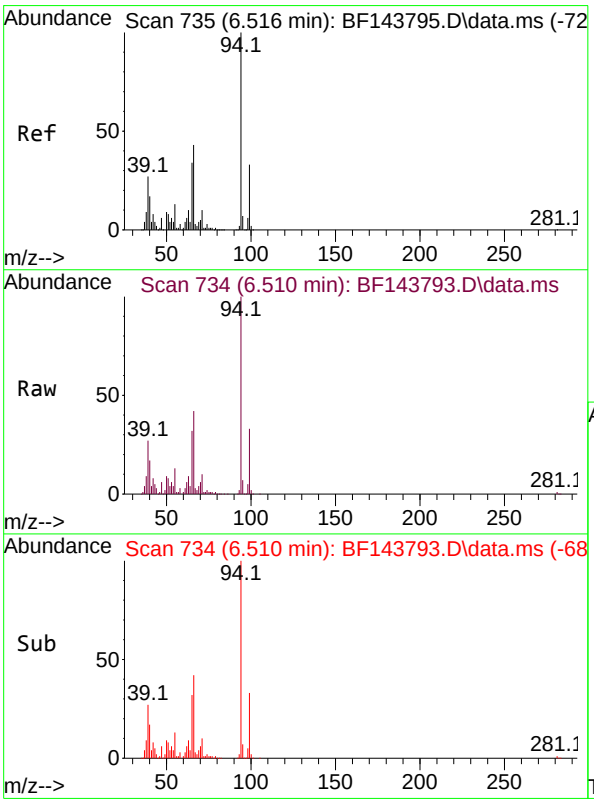
#9
Benzaldehyde
Concen: 8.562 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 70550

Ion	Ratio	Lower	Upper
77	100		
105	92.9	71.8	111.8
106	91.3	69.8	109.8

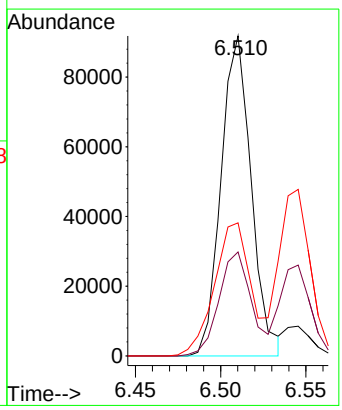


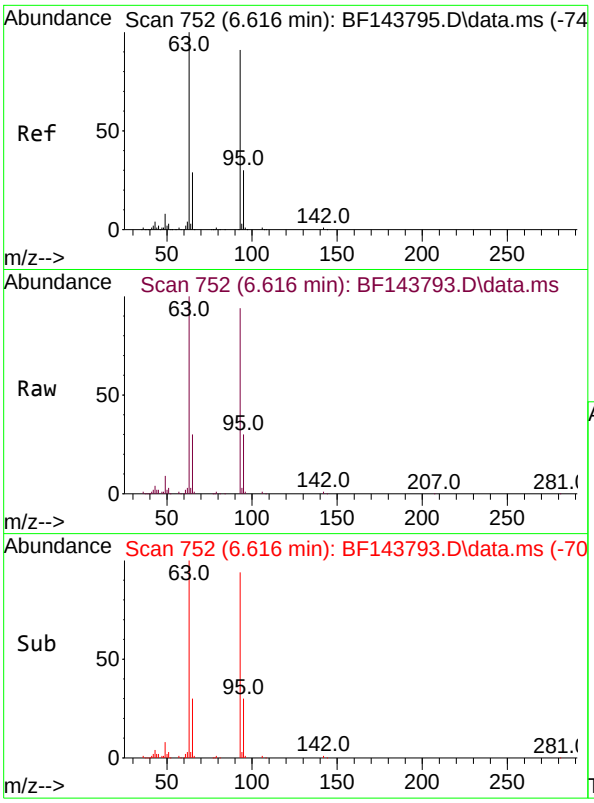


#10
Phenol
Concen: 10.332 ng
RT: 6.510 min Scan# 734
Delta R.T. -0.018 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion: 94 Resp: 113001

Ion	Ratio	Lower	Upper
94	100		
65	32.5	14.2	54.2
66	41.6	24.1	64.1



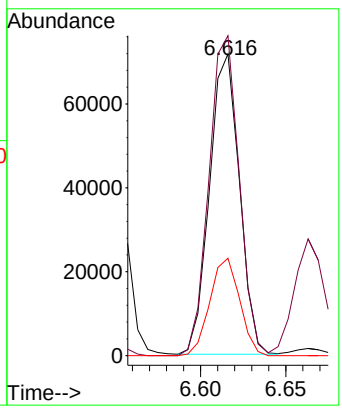


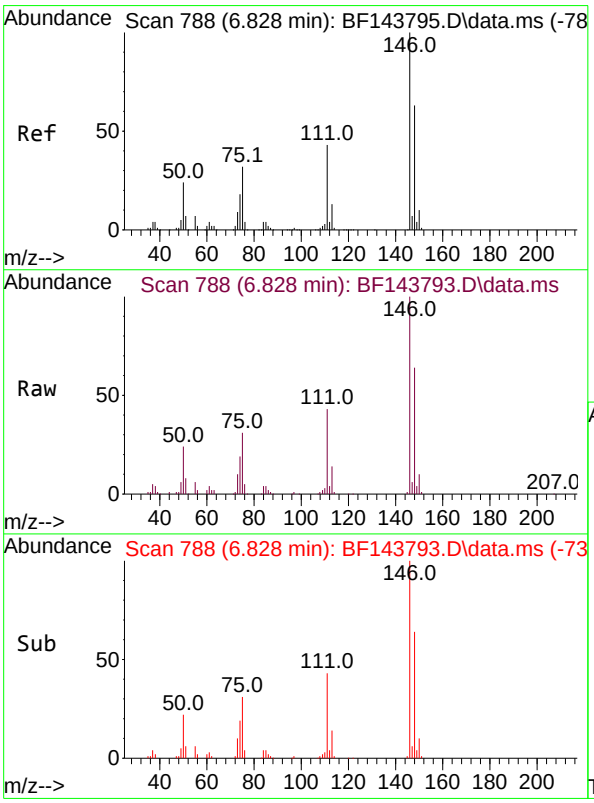
#11
bis(2-Chloroethyl)ether
Concen: 10.192 ng
RT: 6.616 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 93 Resp: 87384

Ion	Ratio	Lower	Upper
93	100		
63	106.1	89.2	129.2
95	32.3	12.9	52.9

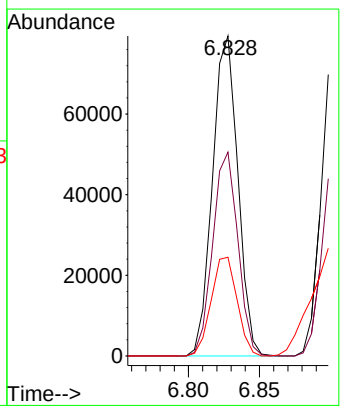


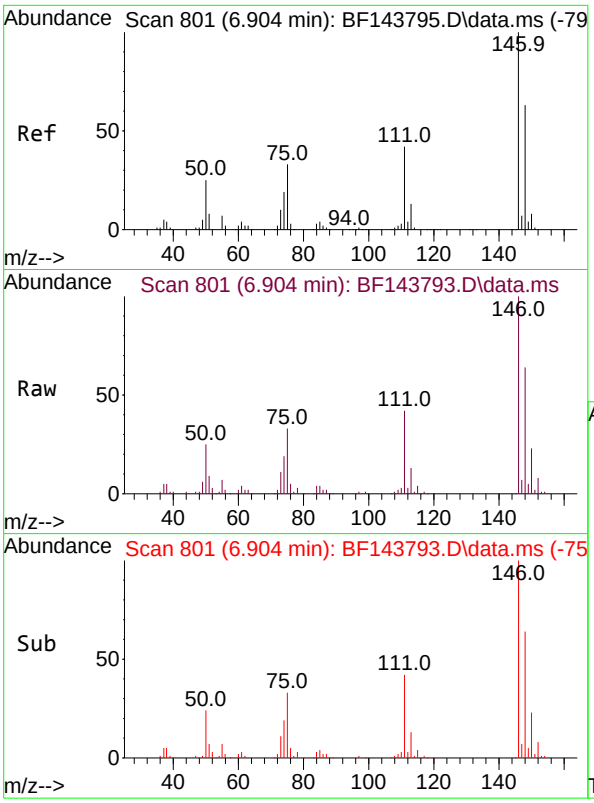


#12
1,3-Dichlorobenzene
Concen: 10.204 ng
RT: 6.828 min Scan# 788
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:146 Resp: 98776

Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.4	75.6
75	30.8	25.6	38.4



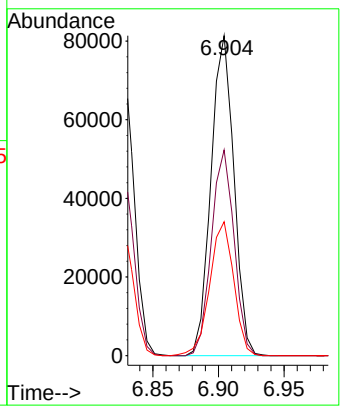


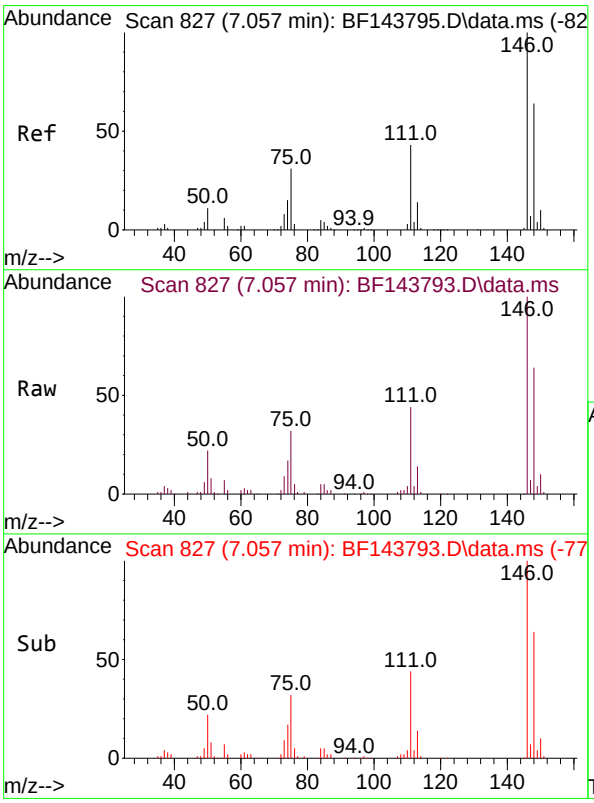
#13
1,4-Dichlorobenzene
Concen: 10.249 ng
RT: 6.904 min Scan# 80
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:146 Resp: 99003

Ion	Ratio	Lower	Upper
146	100		
148	64.3	50.7	76.1
111	41.8	33.4	50.2

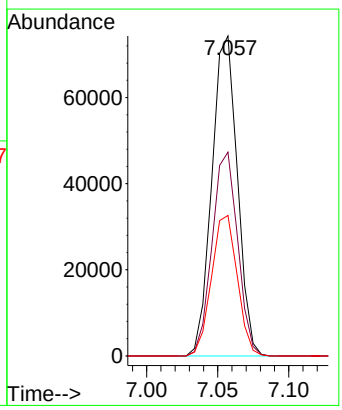


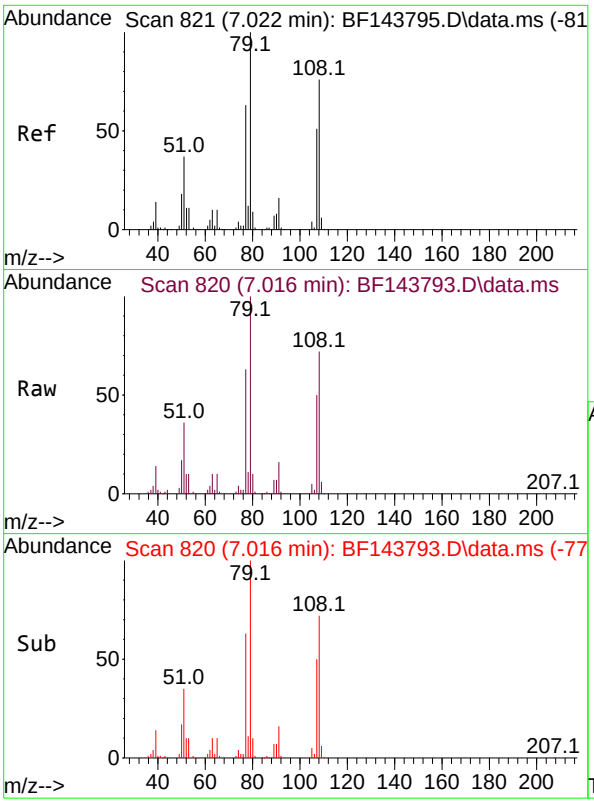


#14
1,2-Dichlorobenzene
Concen: 10.172 ng
RT: 7.057 min Scan# 827
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:146 Resp: 93067

Ion	Ratio	Lower	Upper
146	100		
148	63.7	51.1	76.7
111	43.9	34.3	51.5



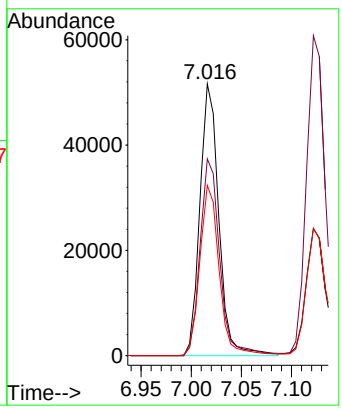


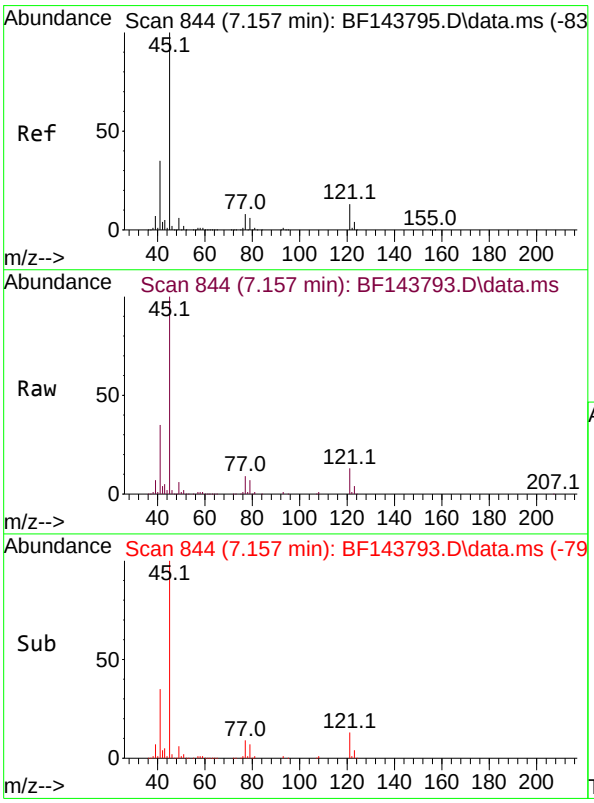
#15
Benzyl Alcohol
Concen: 9.948 ng
RT: 7.016 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 79 Resp: 67639

Ion	Ratio	Lower	Upper
79	100		
108	72.4	60.5	90.7
77	62.6	50.3	75.5

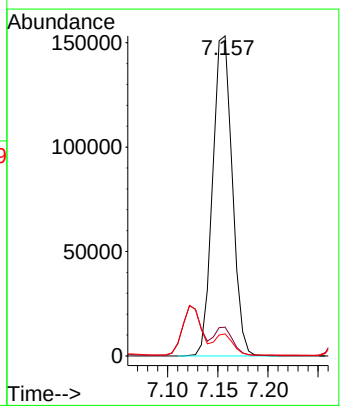


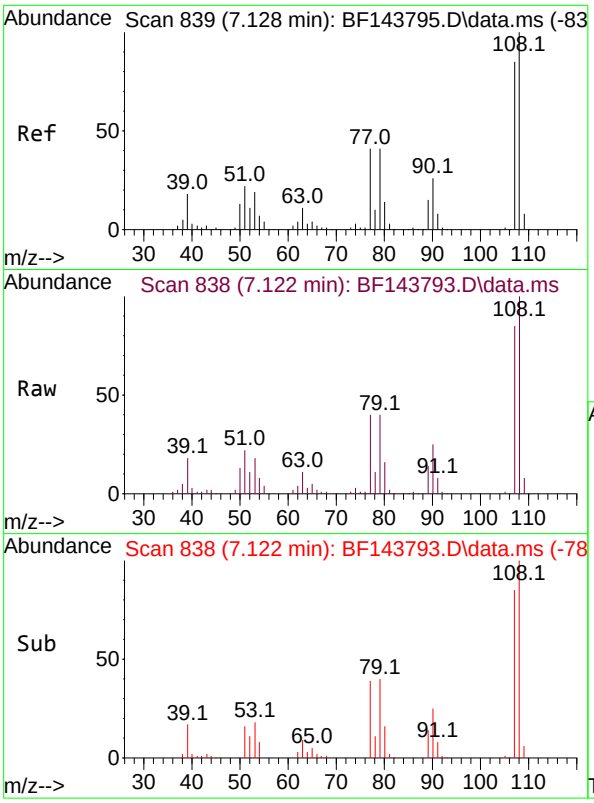


#16
2,2'-oxybis(1-Chloropropane)
Concen: 10.204 ng
RT: 7.157 min Scan# 844
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion: 45 Resp: 207456

Ion	Ratio	Lower	Upper
45	100		
77	9.0	0.0	28.5
79	6.9	0.0	26.3



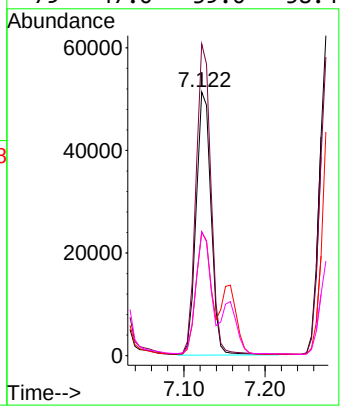


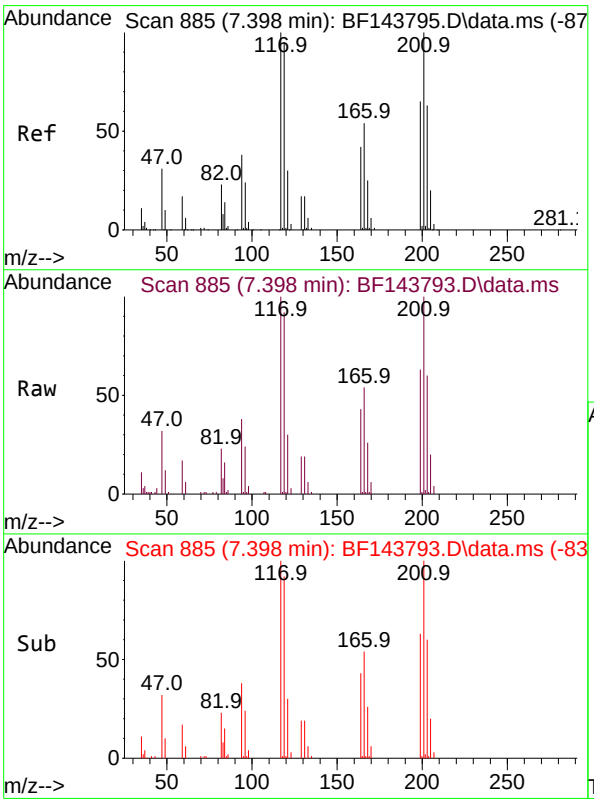
#17
2-Methylphenol
Concen: 10.167 ng
RT: 7.122 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:107 Resp: 65621

Ion	Ratio	Lower	Upper
107	100		
108	118.3	94.2	141.4
77	46.9	38.6	58.0
79	47.0	39.0	58.4

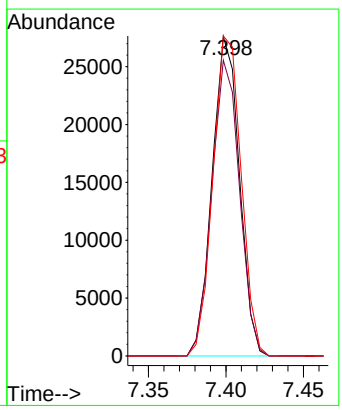


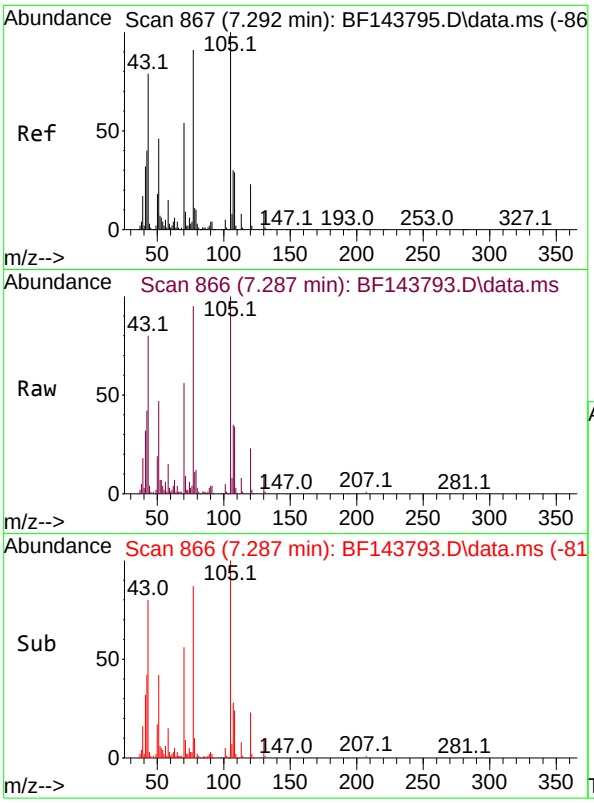


#18
Hexachloroethane
Concen: 9.962 ng
RT: 7.398 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:117 Resp: 33843

Ion	Ratio	Lower	Upper
117	100		
119	92.5	76.2	114.2
201	100.2	79.7	119.5



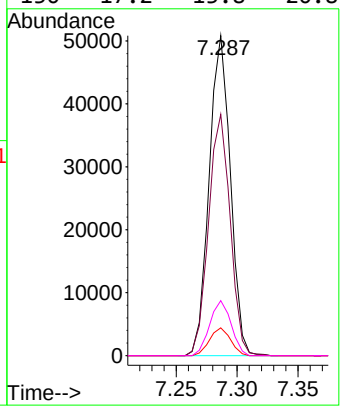


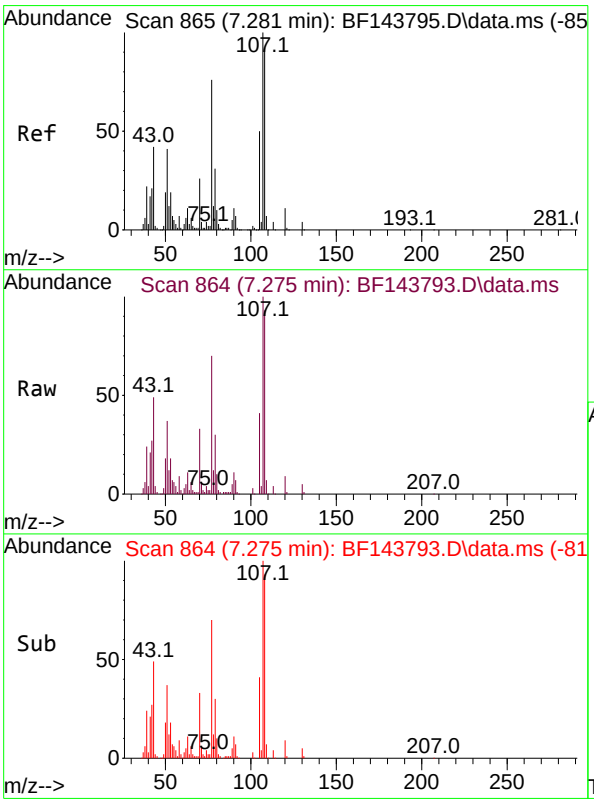
#19
n-Nitroso-di-n-propylamine
Concen: 10.190 ng
RT: 7.287 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 70 Resp: 61660

Ion	Ratio	Lower	Upper
70	100		
42	75.4	59.4	89.0
101	8.7	7.1	10.7
130	17.2	13.8	20.8

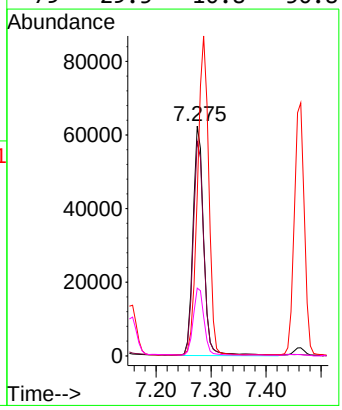


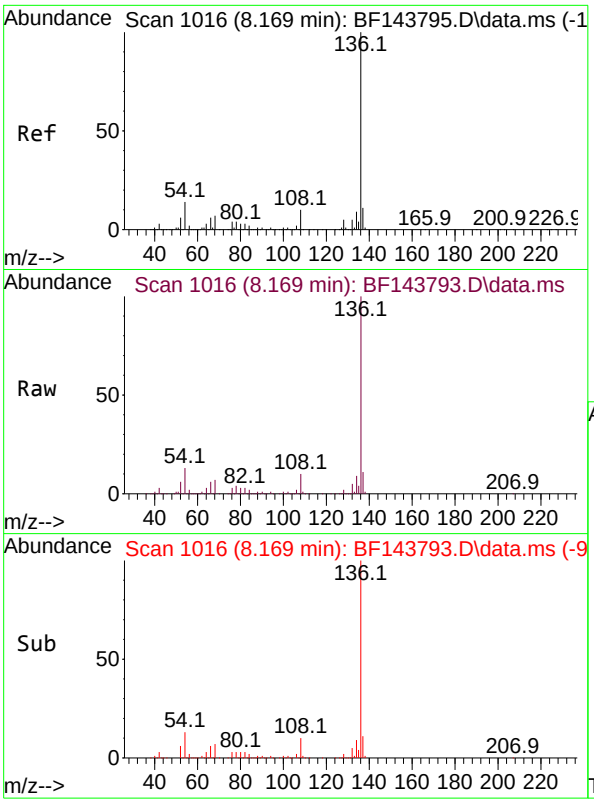


#20
3+4-Methylphenols
Concen: 10.760 ng
RT: 7.275 min Scan# 864
Delta R.T. -0.012 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:107 Resp: 84574

Ion	Ratio	Lower	Upper
107	100		
108	93.3	72.5	112.5
77	69.9	56.2	96.2
79	29.5	10.8	50.8



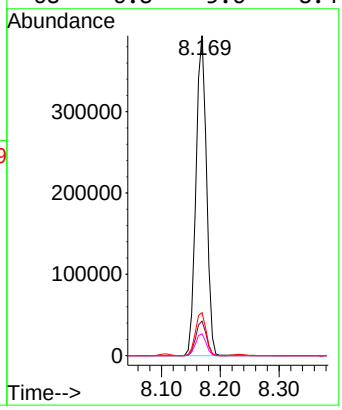


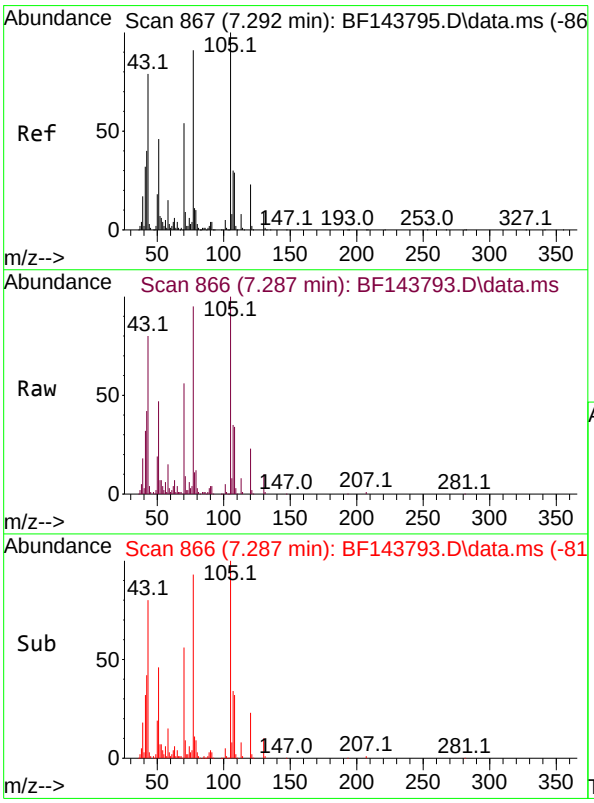
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 10
Delta R.T. -0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:136 Resp: 488285

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	13.4	11.2	16.8
68	6.8	5.6	8.4

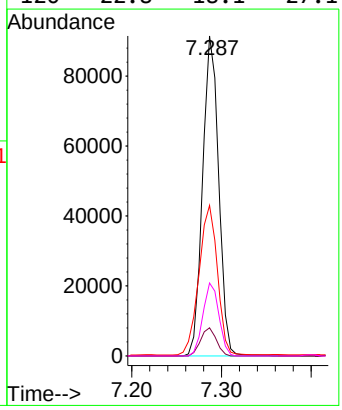


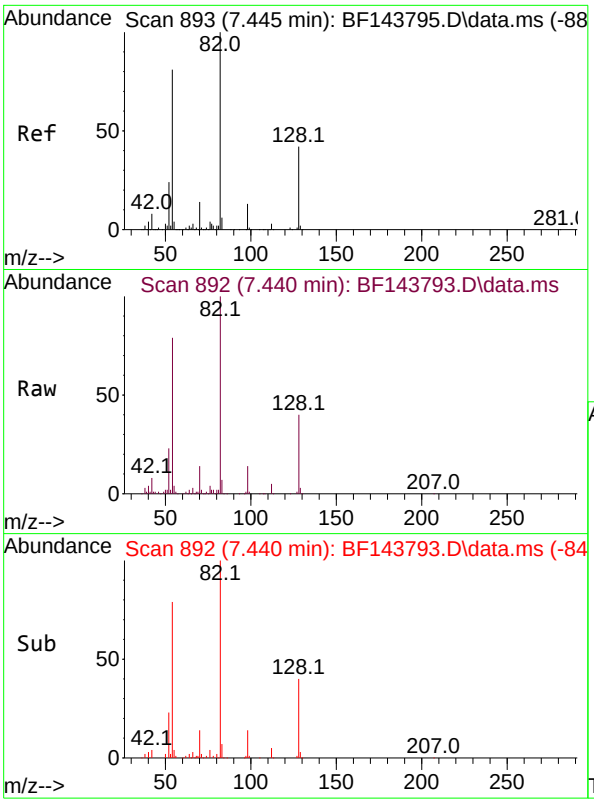


#22
Acetophenone
Concen: 10.604 ng
RT: 7.287 min Scan# 866
Delta R.T. -0.012 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:105 Resp: 113726

Ion	Ratio	Lower	Upper
105	100		
71	8.8	7.0	10.4
51	47.0	36.6	55.0
120	22.8	18.1	27.1



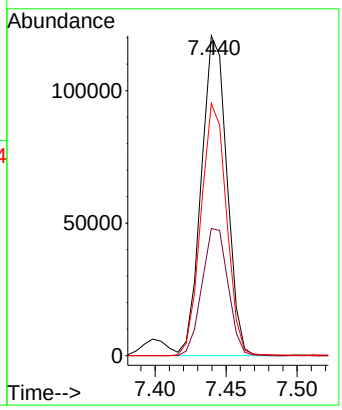


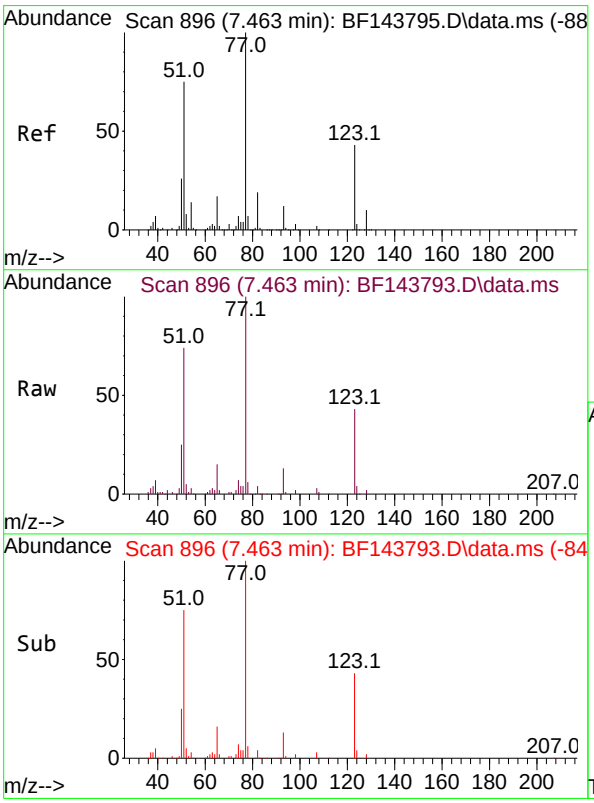
#23
Nitrobenzene-d5
Concen: 19.438 ng
RT: 7.440 min Scan# 89
Delta R.T. -0.012 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 150816

Ion	Ratio	Lower	Upper
82	100		
128	39.7	33.3	49.9
54	78.8	64.2	96.4

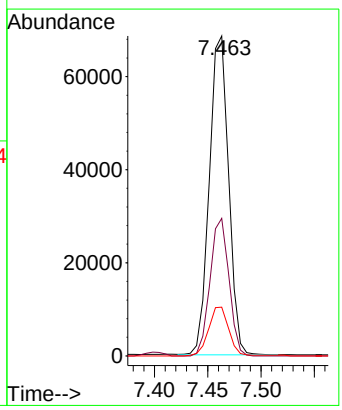


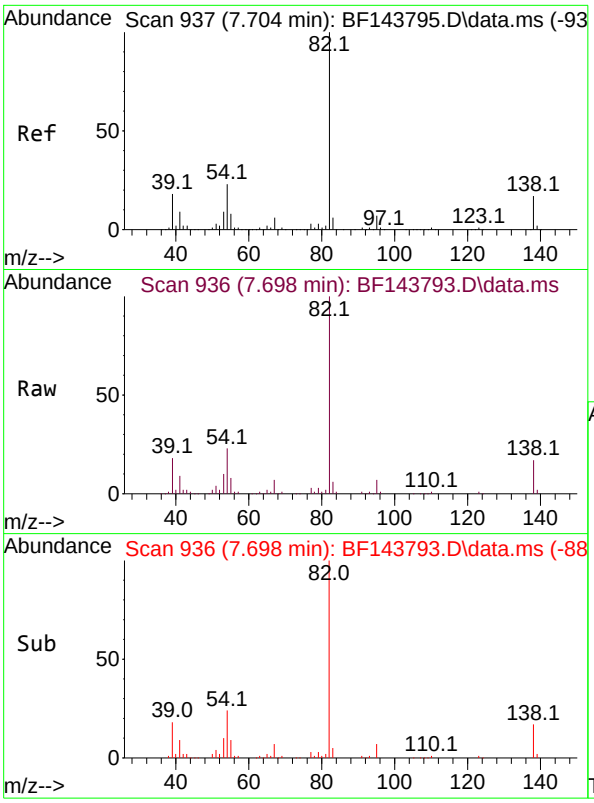


#24
Nitrobenzene
Concen: 9.782 ng
RT: 7.463 min Scan# 896
Delta R.T. -0.012 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion: 77 Resp: 86488

Ion	Ratio	Lower	Upper
77	100		
123	43.0	34.0	51.0
65	15.2	13.5	20.3



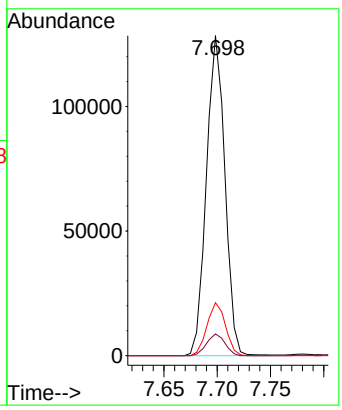


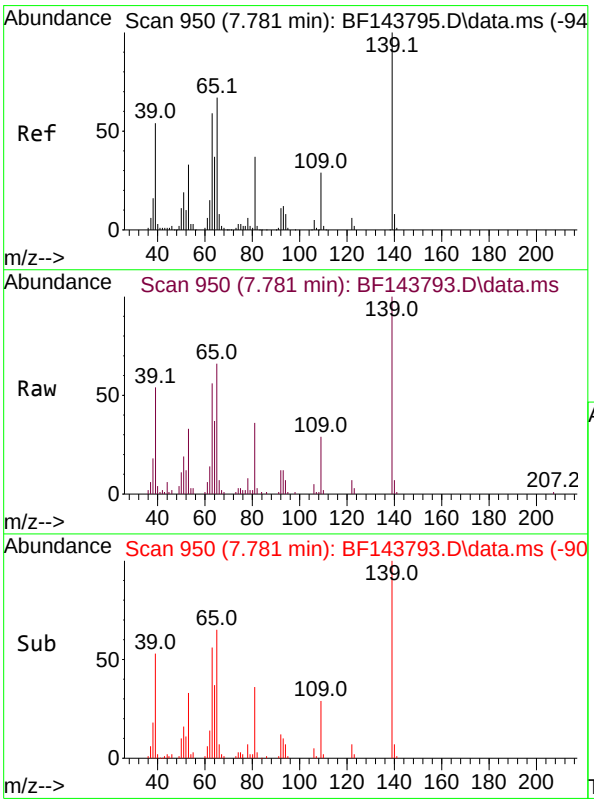
#25
Isophorone
Concen: 9.989 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 82 Resp: 155268

Ion	Ratio	Lower	Upper
82	100		
95	6.8	5.4	8.2
138	16.5	13.7	20.5

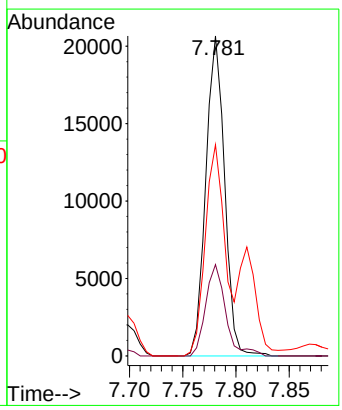


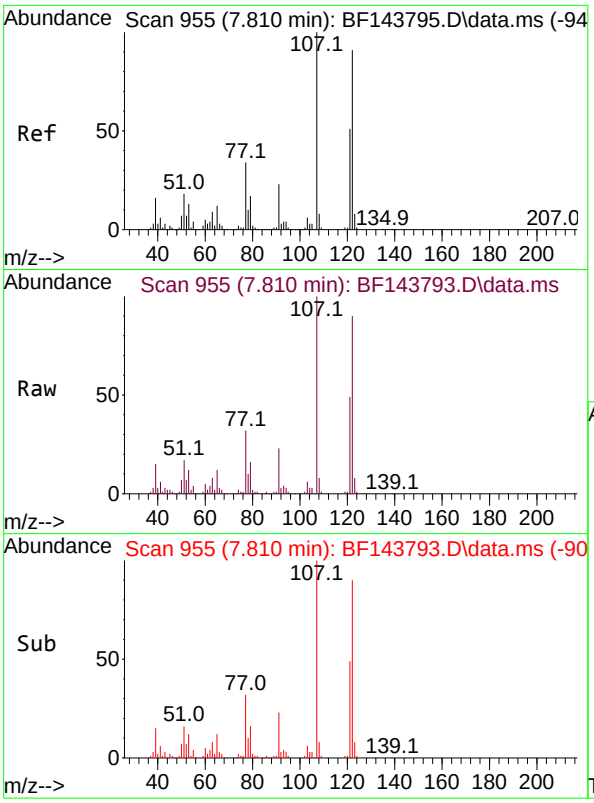


#26
2-Nitrophenol
Concen: 9.284 ng
RT: 7.781 min Scan# 950
Delta R.T. -0.005 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:139 Resp: 25281

Ion	Ratio	Lower	Upper
139	100		
109	28.5	23.3	34.9
65	66.0	53.8	80.6



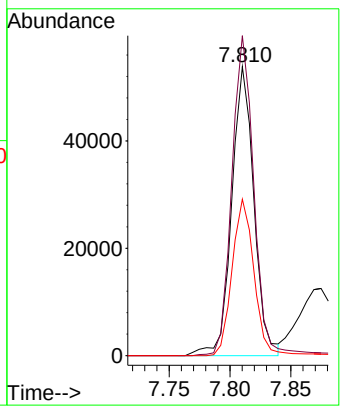


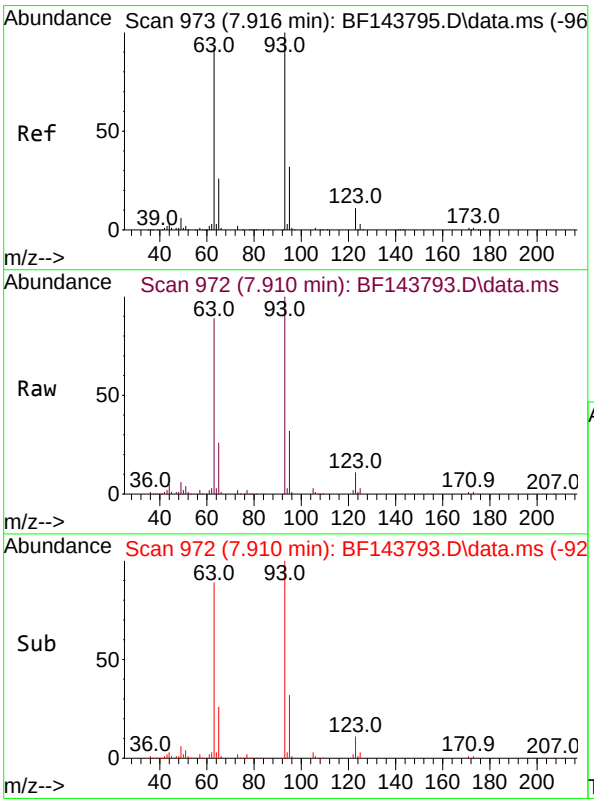
#27
2,4-Dimethylphenol
Concen: 9.833 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:122 Resp: 68320

Ion	Ratio	Lower	Upper
122	100		
107	110.8	87.5	131.3
121	54.2	44.2	66.4

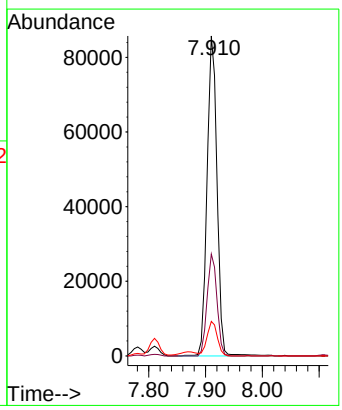


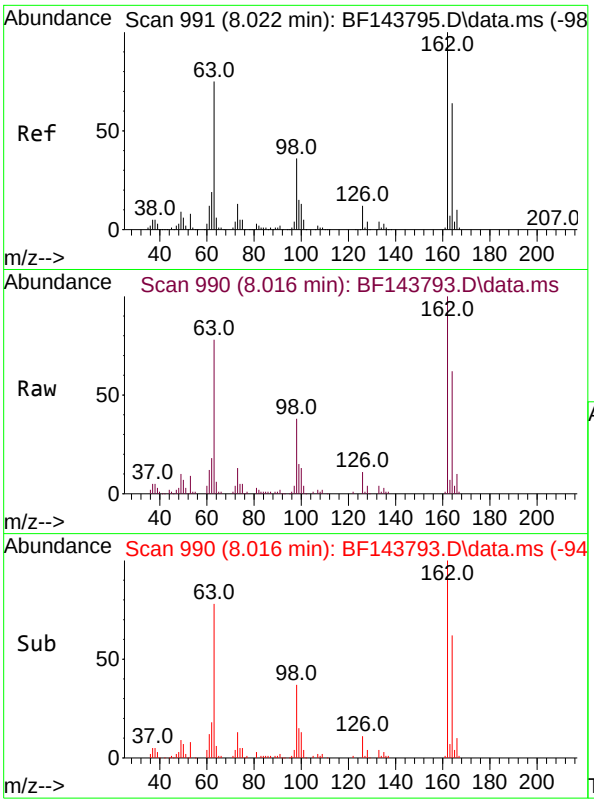


#28
bis(2-Chloroethoxy)methane
Concen: 10.387 ng
RT: 7.910 min Scan# 972
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion: 93 Resp: 104902

Ion	Ratio	Lower	Upper
93	100		
95	31.8	25.8	38.8
123	10.8	8.8	13.2



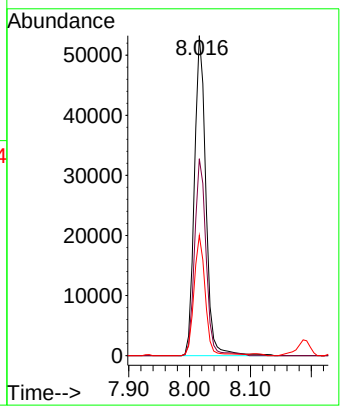


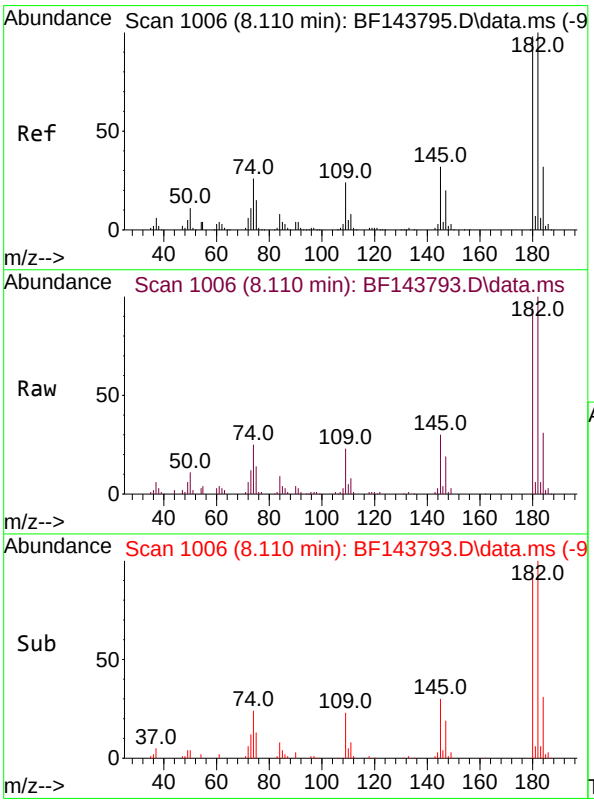
#29
2,4-Dichlorophenol
Concen: 10.200 ng
RT: 8.016 min Scan# 99
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 69731

Ion	Ratio	Lower	Upper
162	100		
164	61.5	44.1	84.1
98	37.5	15.8	55.8

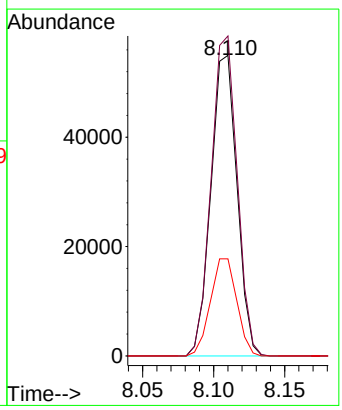


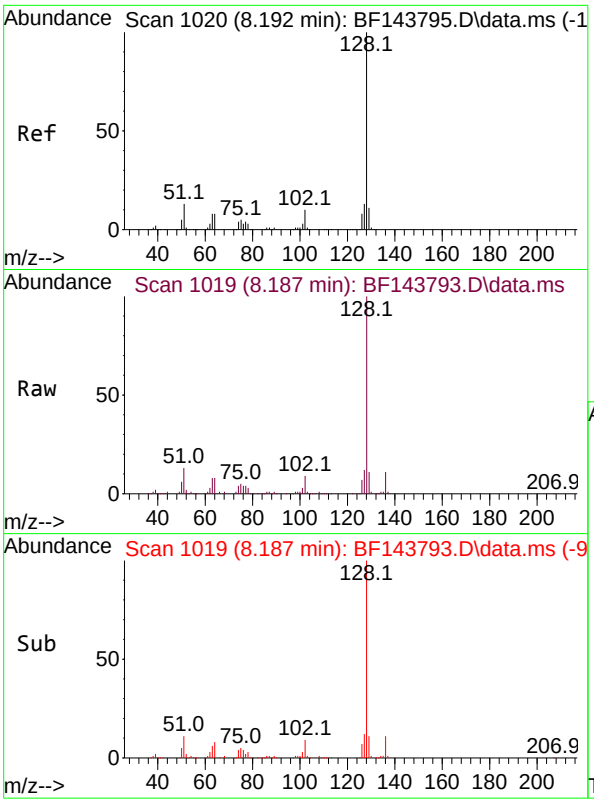


#30
1,2,4-Trichlorobenzene
Concen: 9.914 ng
RT: 8.110 min Scan# 1006
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:180 Resp: 70340

Ion	Ratio	Lower	Upper
180	100		
182	106.5	82.0	123.0
145	32.3	25.9	38.9



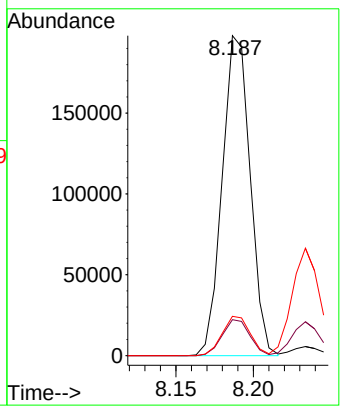


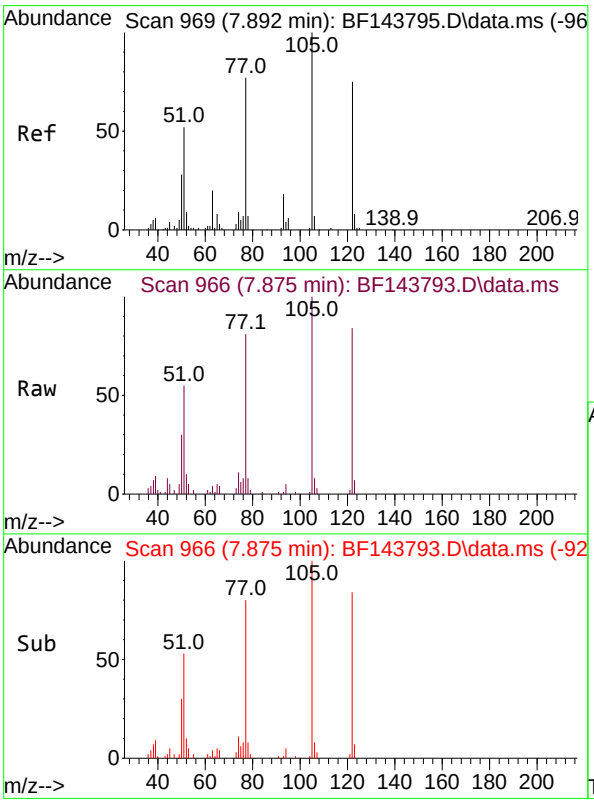
#31
Naphthalene
Concen: 10.662 ng
RT: 8.187 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:128 Resp: 249230

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	12.3	10.2	15.4

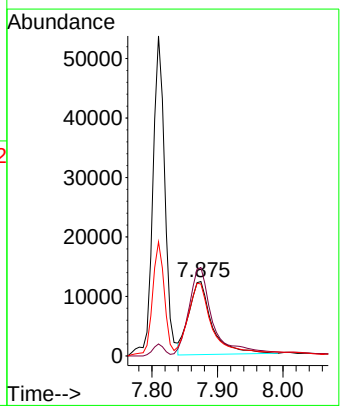


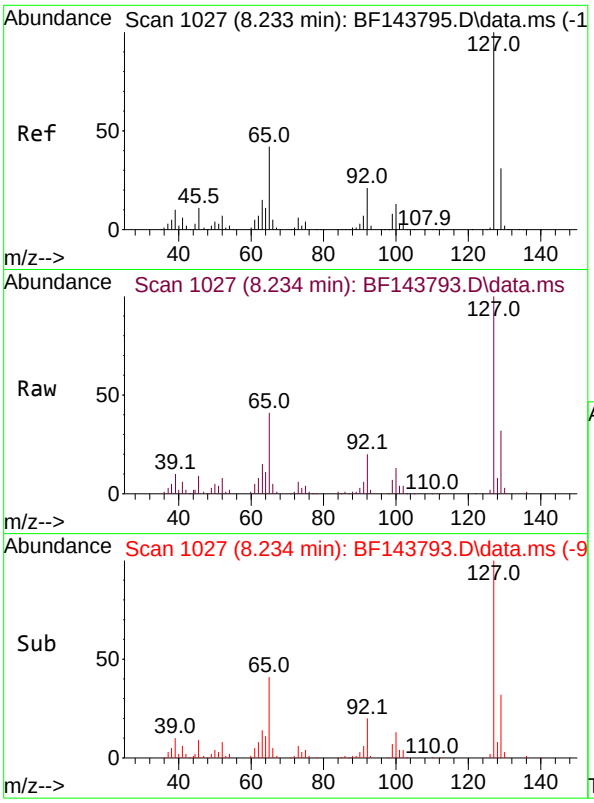


#32
Benzoic acid
Concen: 9.023 ng
RT: 7.875 min Scan# 966
Delta R.T. -0.047 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:122 Resp: 30248

Ion	Ratio	Lower	Upper
122	100		
105	118.9	103.7	143.7
77	96.9	78.8	118.8



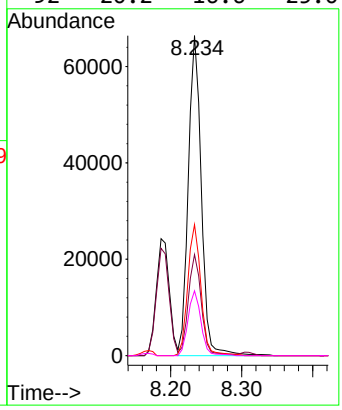


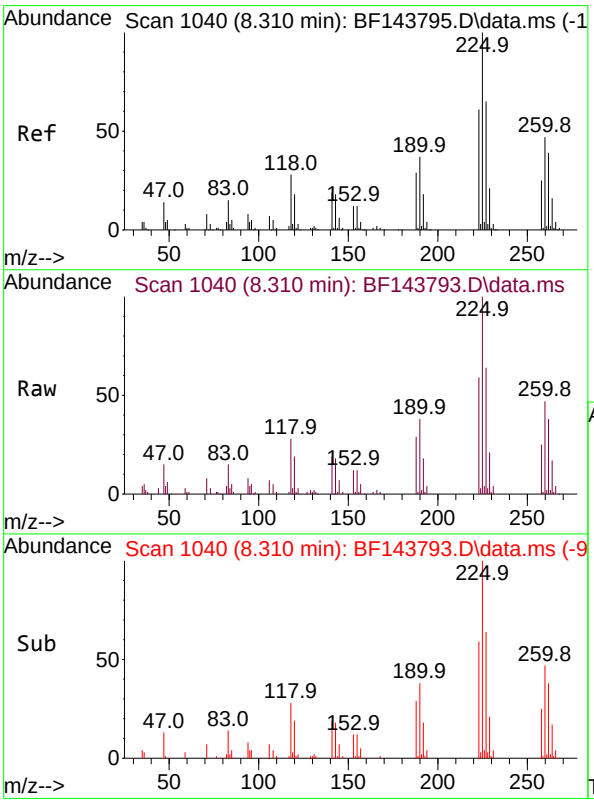
#33
4-Chloroaniline
Concen: 10.316 ng
RT: 8.234 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:127 Resp: 84740

Ion	Ratio	Lower	Upper
127	100		
129	31.6	25.4	38.2
65	40.9	33.4	50.2
92	20.2	16.6	25.0

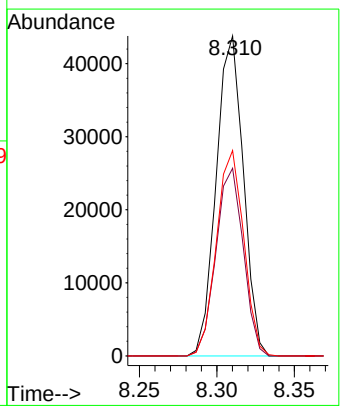


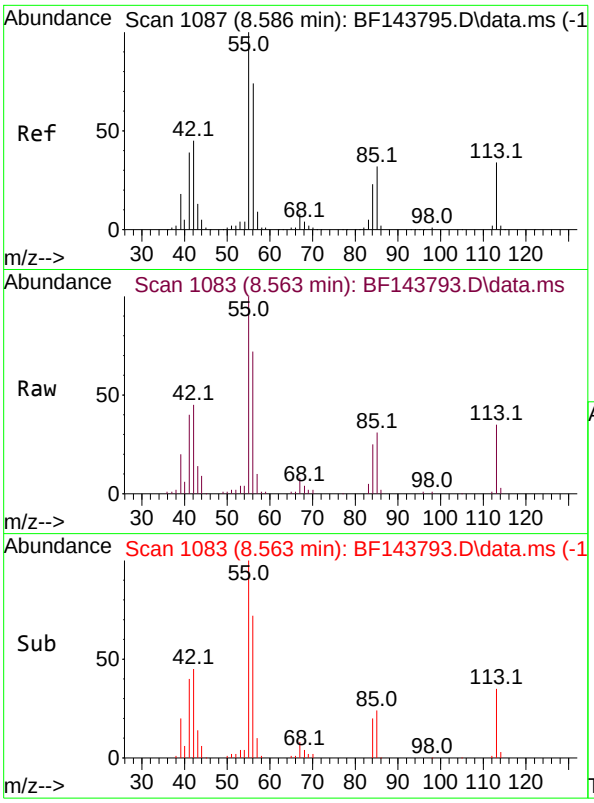


#34
Hexachlorobutadiene
Concen: 10.103 ng
RT: 8.310 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:225 Resp: 53434

Ion	Ratio	Lower	Upper
225	100		
223	58.6	48.6	72.8
227	64.2	51.9	77.9



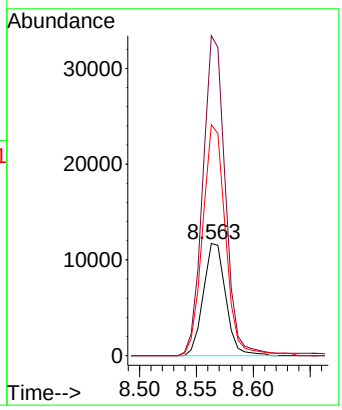


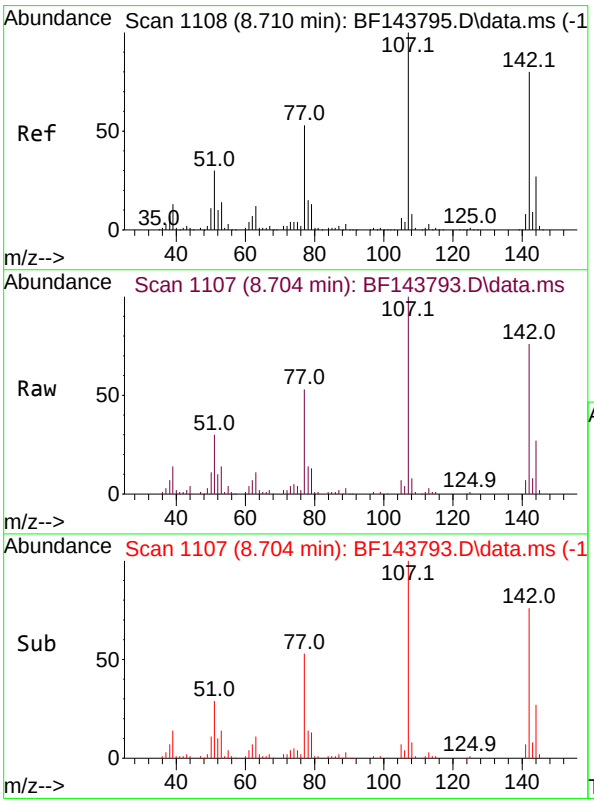
#35
Caprolactam
Concen: 9.192 ng
RT: 8.563 min Scan# 10
Delta R.T. -0.047 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:113 Resp: 16062

Ion	Ratio	Lower	Upper
113	100		
55	285.6	271.7	311.7
56	206.2	194.5	234.5

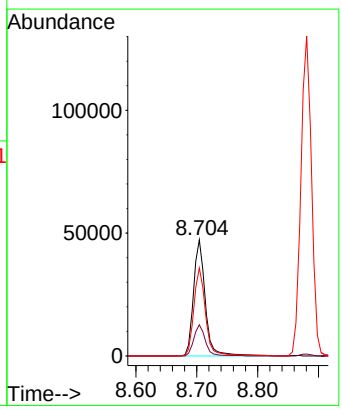


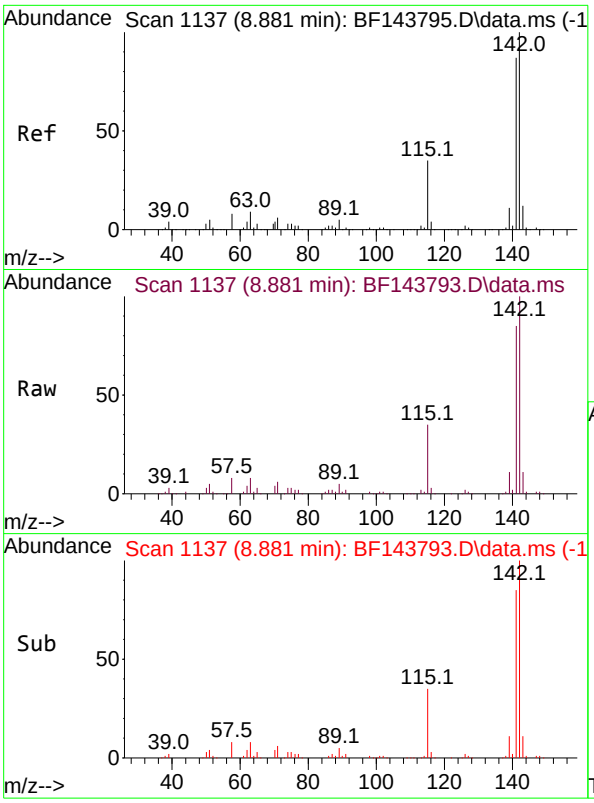


#36
4-Chloro-3-methylphenol
Concen: 9.882 ng
RT: 8.704 min Scan# 1107
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:107 Resp: 63361

Ion	Ratio	Lower	Upper
107	100		
144	26.7	21.8	32.8
142	75.7	63.6	95.4



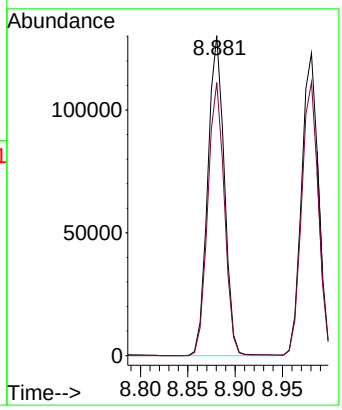


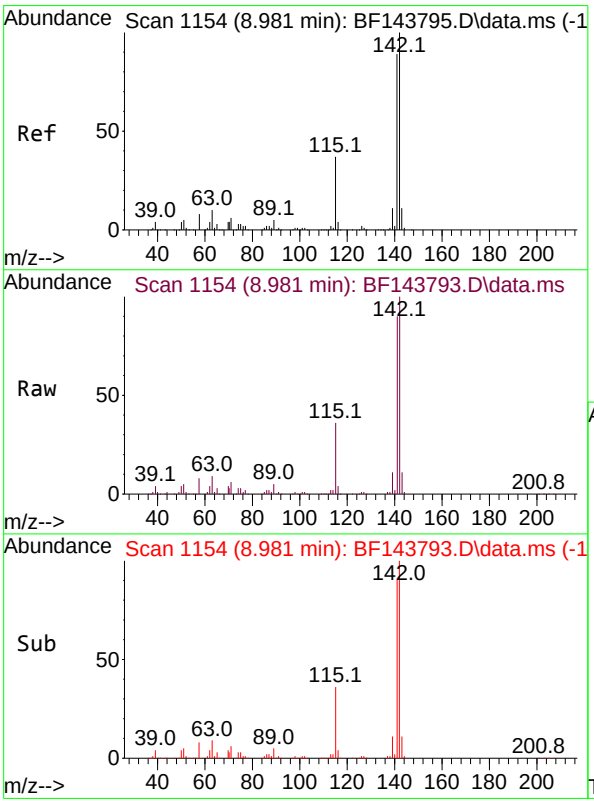
#37
2-Methylnaphthalene
Concen: 10.644 ng
RT: 8.881 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:142 Resp: 158654

Ion	Ratio	Lower	Upper
142	100		
141	85.3	69.4	104.0

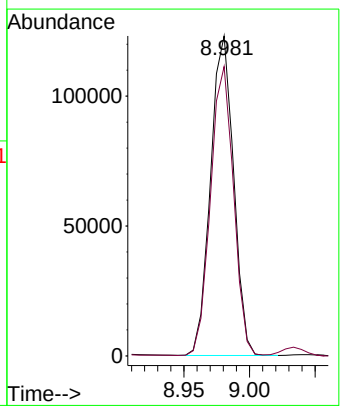


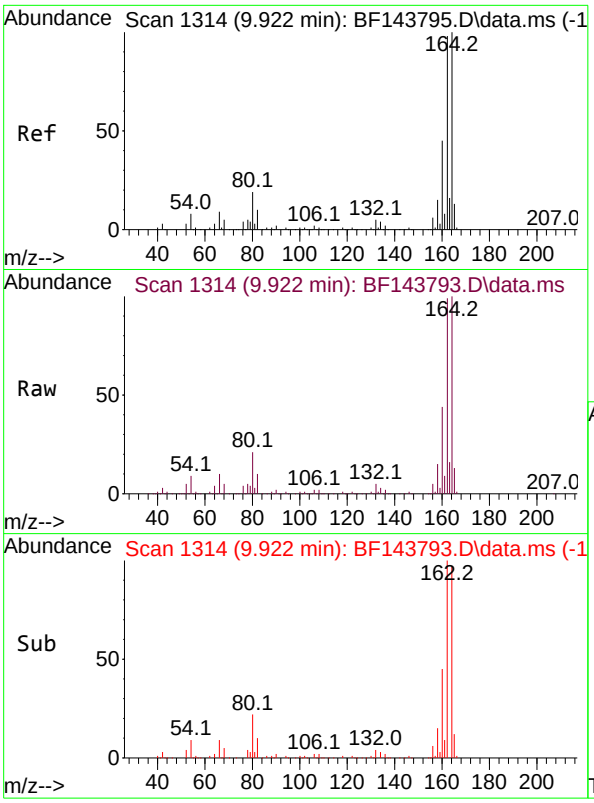


#38
1-Methylnaphthalene
Concen: 10.572 ng
RT: 8.981 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:142 Resp: 150831

Ion	Ratio	Lower	Upper
142	100		
141	90.4	71.1	106.7



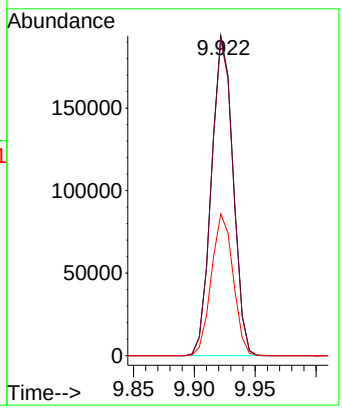


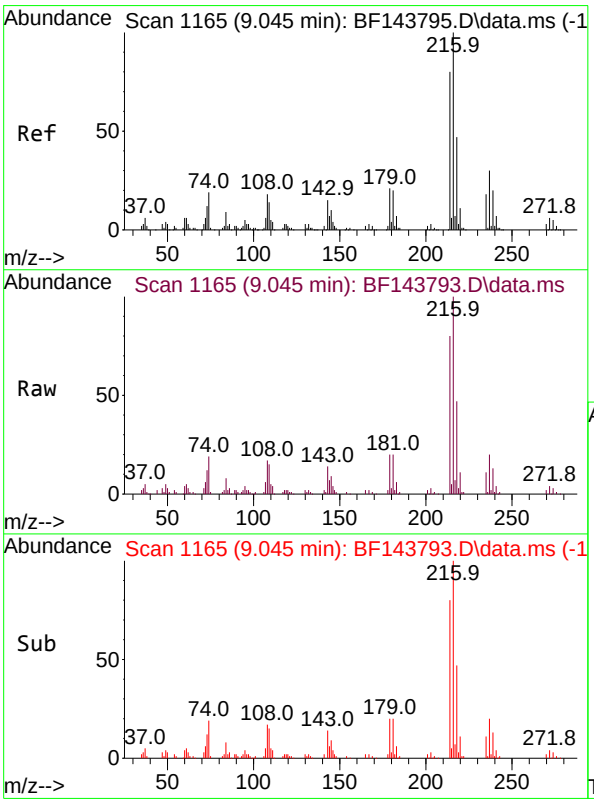
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:164 Resp: 239396

Ion	Ratio	Lower	Upper
164	100		
162	99.0	78.8	118.2
160	44.3	35.8	53.6

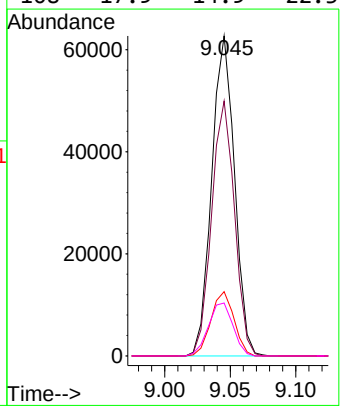


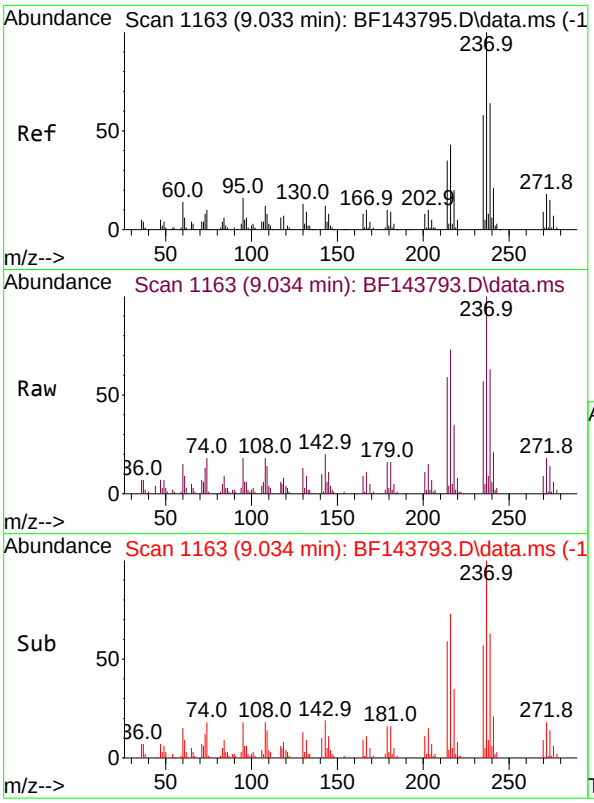


#40
1,2,4,5-Tetrachlorobenzene
Concen: 10.509 ng
RT: 9.045 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:216 Resp: 75923

Ion	Ratio	Lower	Upper
216	100		
214	79.8	63.7	95.5
179	20.4	16.5	24.7
108	17.9	14.9	22.3



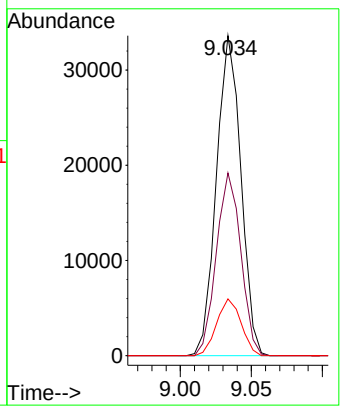


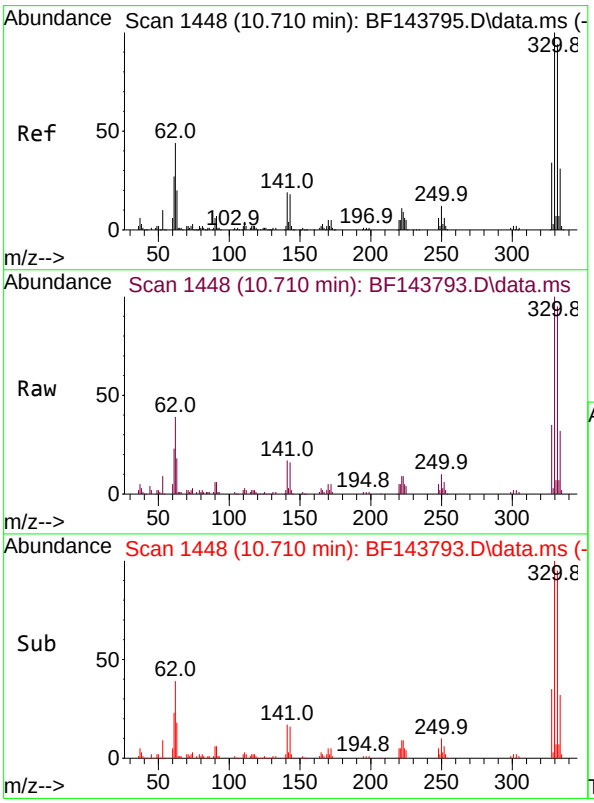
#41
Hexachlorocyclopentadiene
Concen: 8.792 ng
RT: 9.034 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:237 Resp: 40258

Ion	Ratio	Lower	Upper
237	100		
235	57.1	38.1	78.1
272	17.7	0.0	37.9

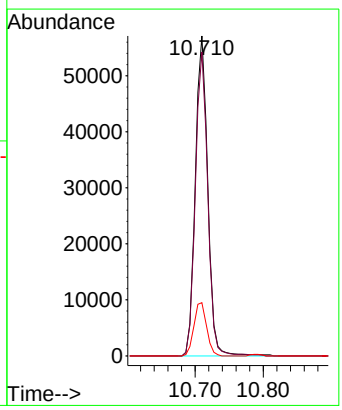


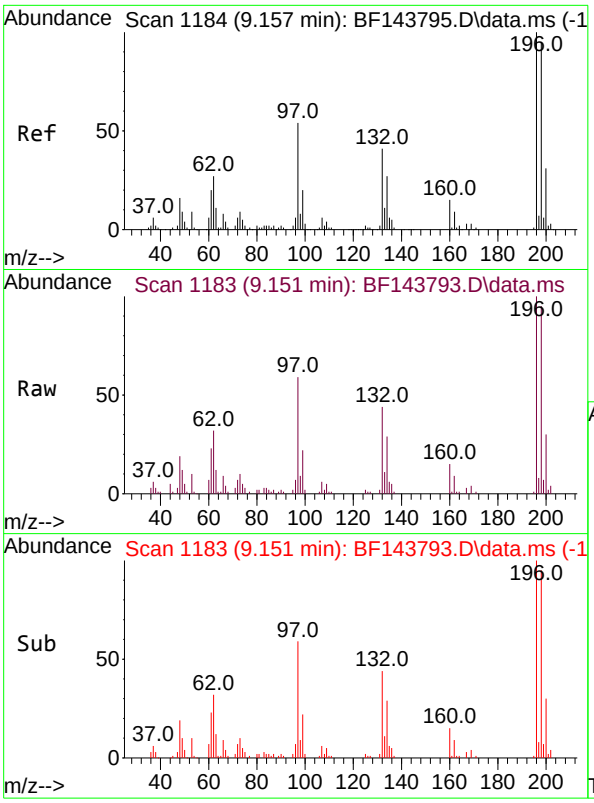


#42
2,4,6-Tribromophenol
Concen: 21.225 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:330 Resp: 72517

Ion	Ratio	Lower	Upper
330	100		
332	94.6	74.7	112.1
141	17.0	14.3	21.5



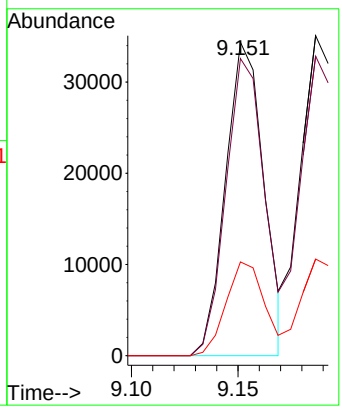


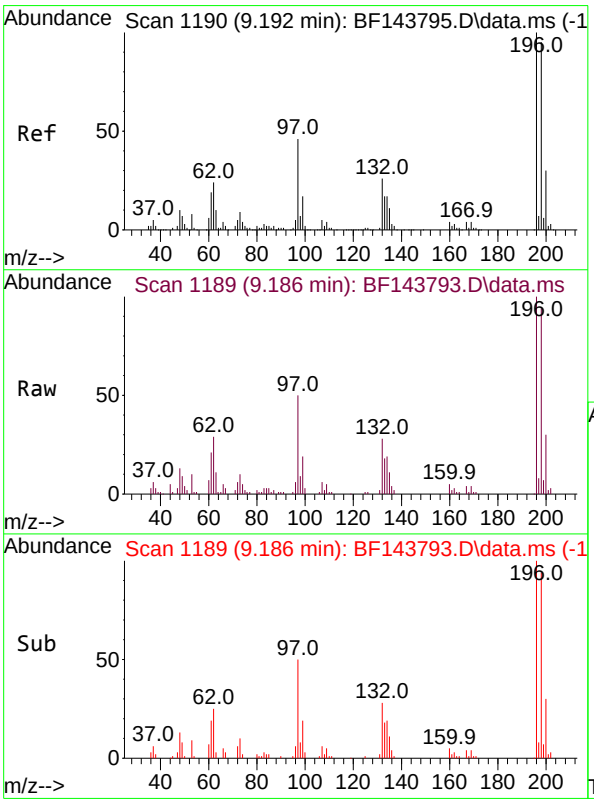
#43
2,4,6-Trichlorophenol
Concen: 9.474 ng
RT: 9.151 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:196 Resp: 42859

Ion	Ratio	Lower	Upper
196	100		
198	94.8	76.2	114.2
200	29.9	24.7	37.1

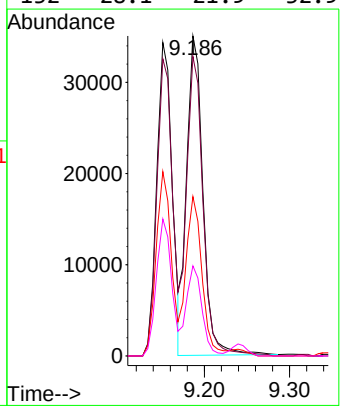


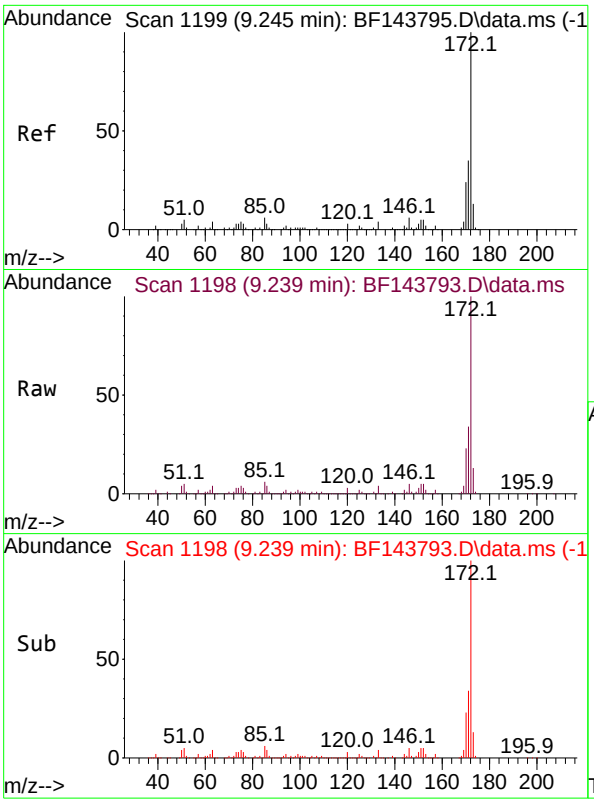


#44
2,4,5-Trichlorophenol
Concen: 9.889 ng
RT: 9.186 min Scan# 1189
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:196 Resp: 46791

Ion	Ratio	Lower	Upper
196	100		
198	93.6	75.9	113.9
97	49.8	38.3	57.5
132	28.1	21.9	32.9



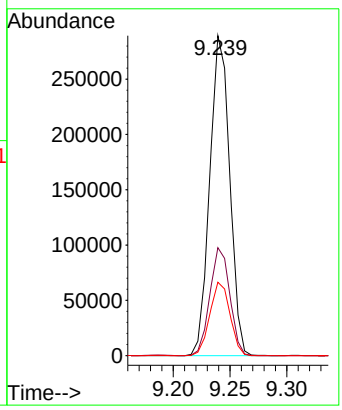


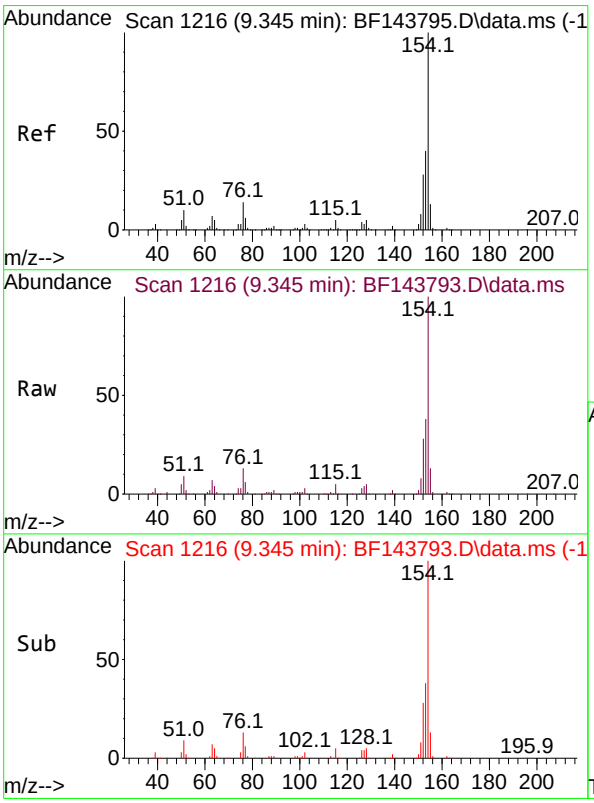
#45
2-Fluorobiphenyl
Concen: 21.809 ng
RT: 9.239 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:172 Resp: 353299

Ion	Ratio	Lower	Upper
172	100		
171	33.7	27.9	41.9
170	22.9	19.1	28.7

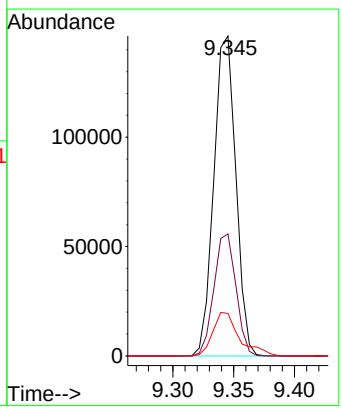


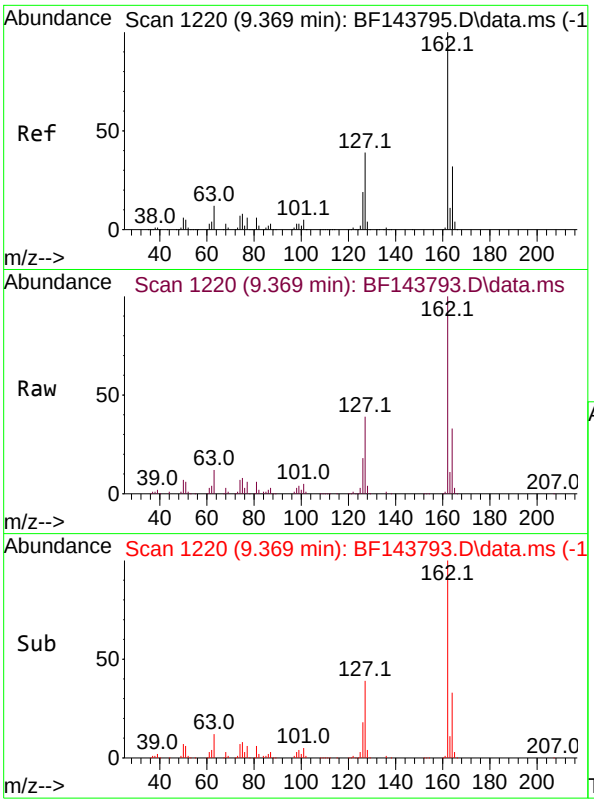


#46
1,1'-Biphenyl
Concen: 10.644 ng
RT: 9.345 min Scan# 1216
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:154 Resp: 184443

Ion	Ratio	Lower	Upper
154	100		
153	38.1	19.7	59.7
76	13.3	0.0	33.8



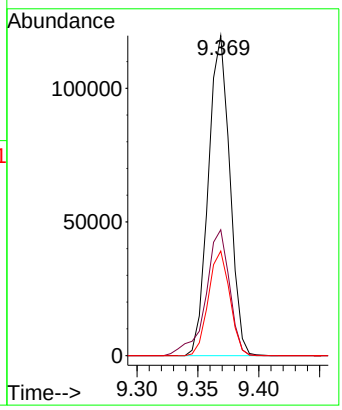


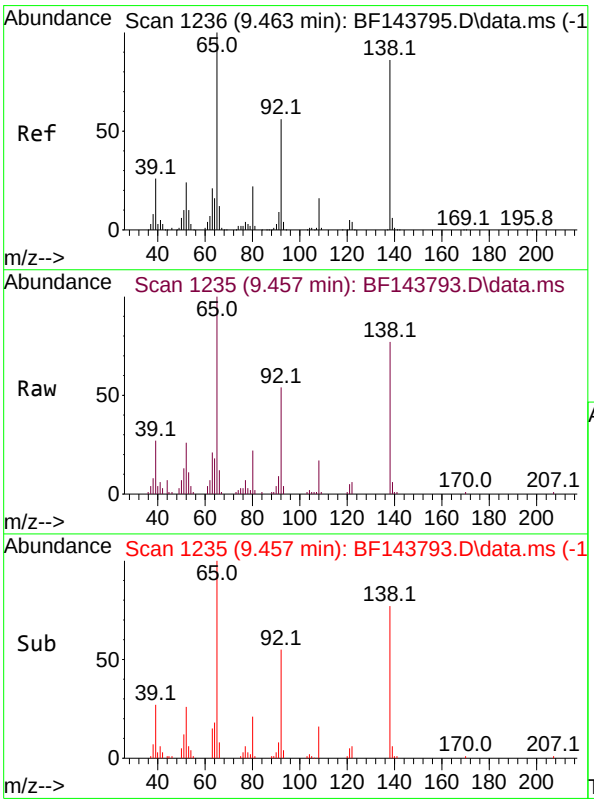
#47
2-Chloronaphthalene
Concen: 10.496 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:162 Resp: 146409

Ion	Ratio	Lower	Upper
162	100		
127	39.3	31.5	47.3
164	32.7	25.9	38.9

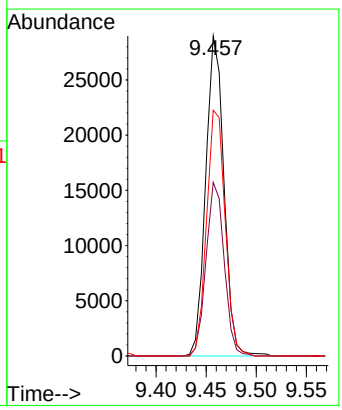


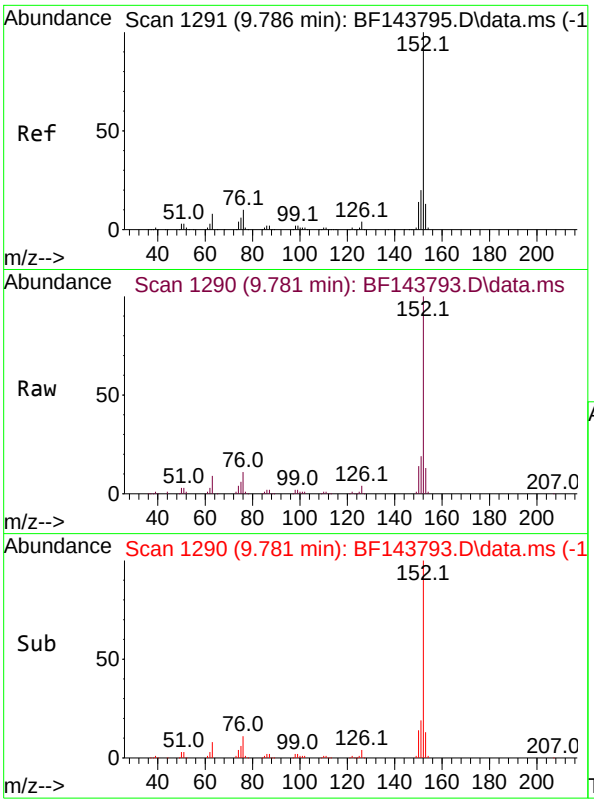


#48
2-Nitroaniline
Concen: 8.646 ng
RT: 9.457 min Scan# 1235
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion: 65 Resp: 36451

Ion	Ratio	Lower	Upper
65	100		
92	54.2	44.9	67.3
138	76.8	69.0	103.4



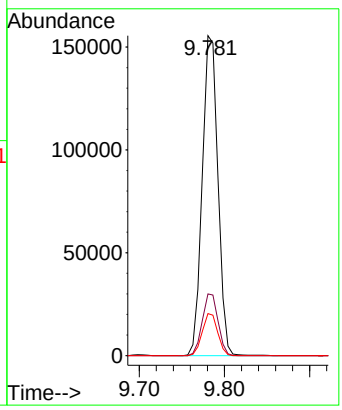


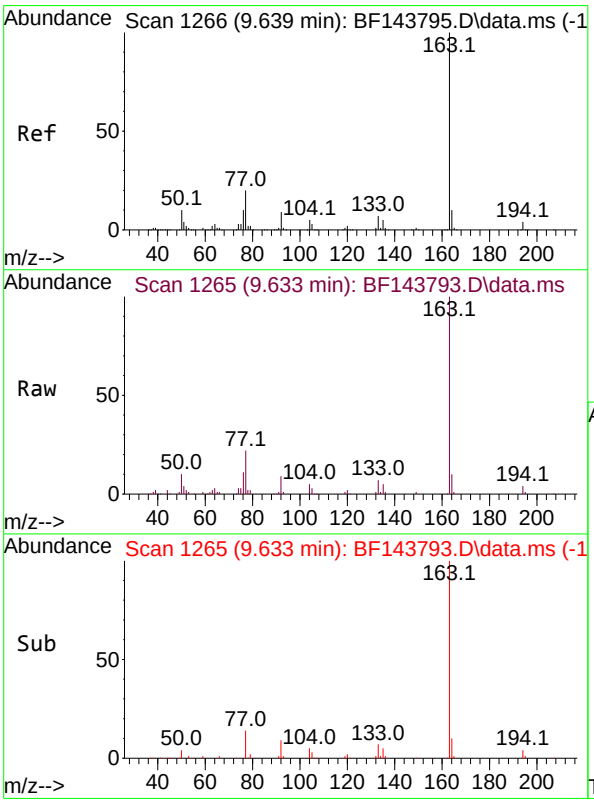
#49
Acenaphthylene
Concen: 10.338 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:152 Resp: 198522

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.7	23.5
153	13.2	10.6	15.8

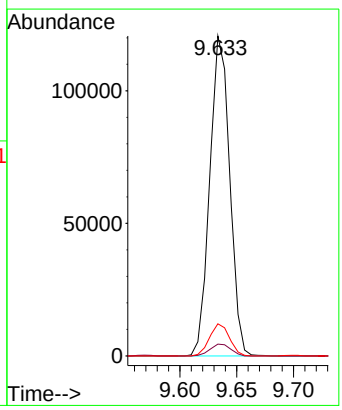


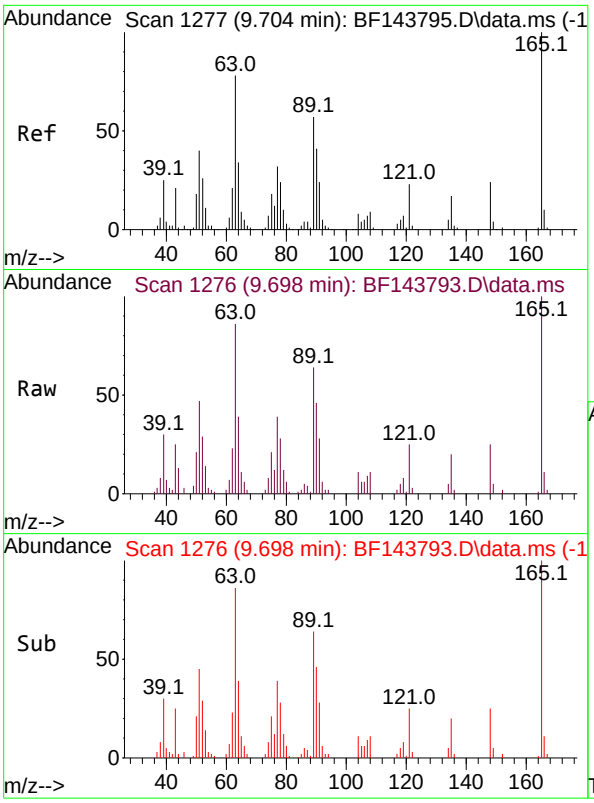


#50
Dimethylphthalate
Concen: 10.118 ng
RT: 9.633 min Scan# 1265
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:163 Resp: 147631

Ion	Ratio	Lower	Upper
163	100		
194	3.7	3.0	4.6
164	10.0	8.2	12.2



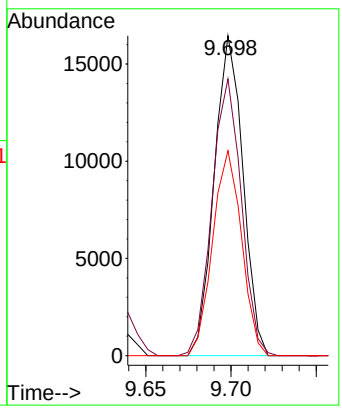


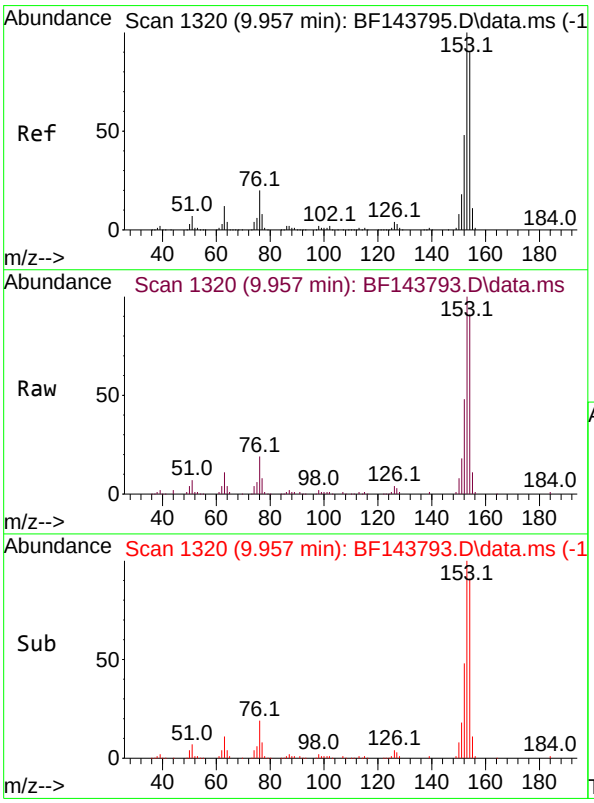
#51
2,6-Dinitrotoluene
Concen: 8.025 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 19239

Ion	Ratio	Lower	Upper
165	100		
63	86.5	62.6	94.0
89	64.0	45.2	67.8

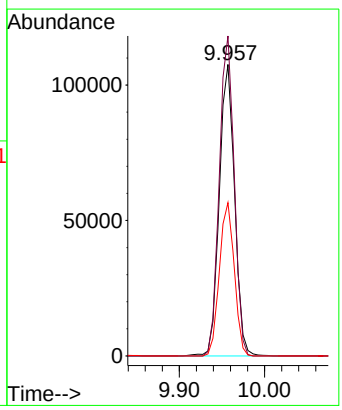


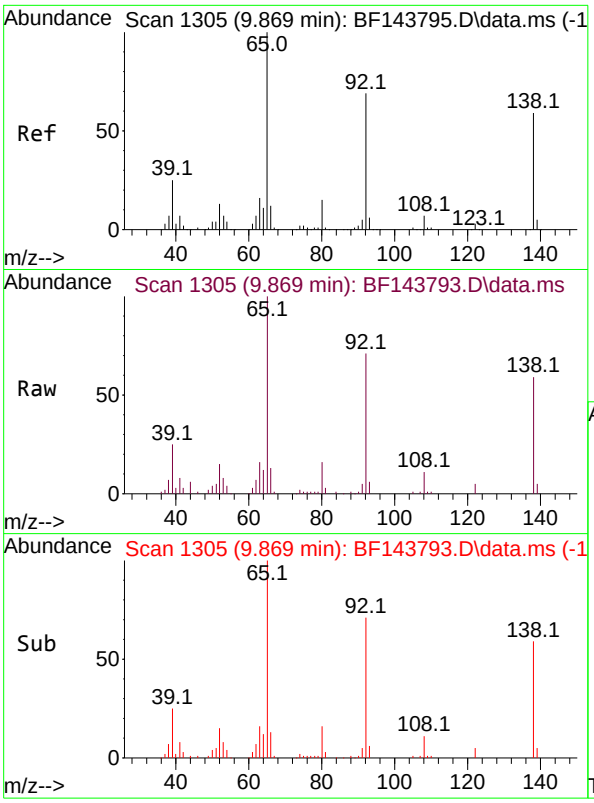


#52
Acenaphthene
Concen: 10.619 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:154 Resp: 134197

Ion	Ratio	Lower	Upper
154	100		
153	109.8	88.7	133.1
152	52.6	42.7	64.1



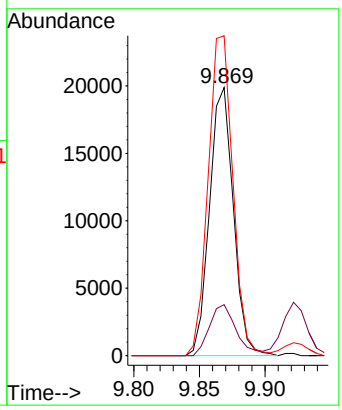


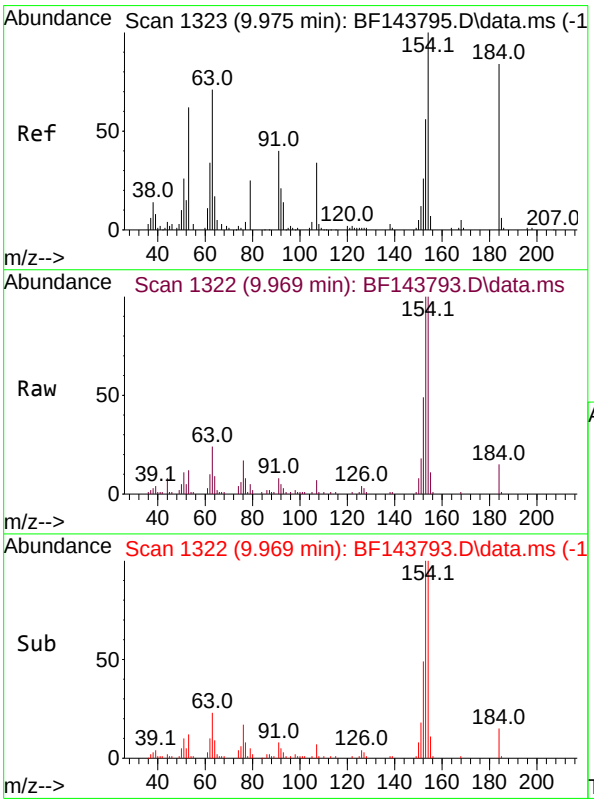
#53
3-Nitroaniline
Concen: 8.650 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:138 Resp: 25136

Ion	Ratio	Lower	Upper
138	100		
108	19.0	9.9	14.9#
92	119.3	93.5	140.3

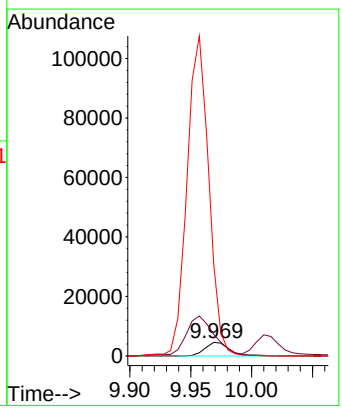


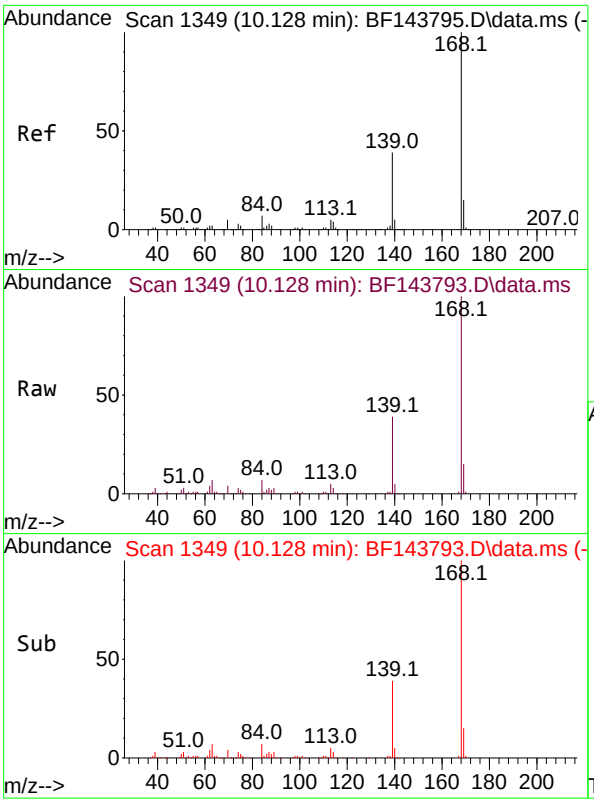


#54
2,4-Dinitrophenol
Concen: 11.233 ng
RT: 9.969 min Scan# 1322
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:184 Resp: 6231

Ion	Ratio	Lower	Upper
184	100		
63	160.0	84.6	127.0#
154	677.6	199.3	298.9#



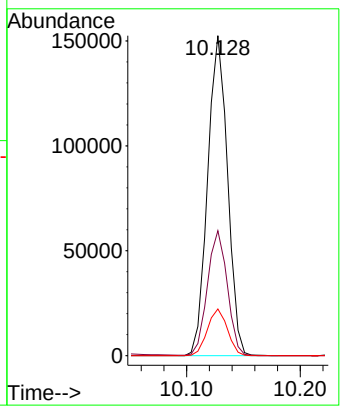


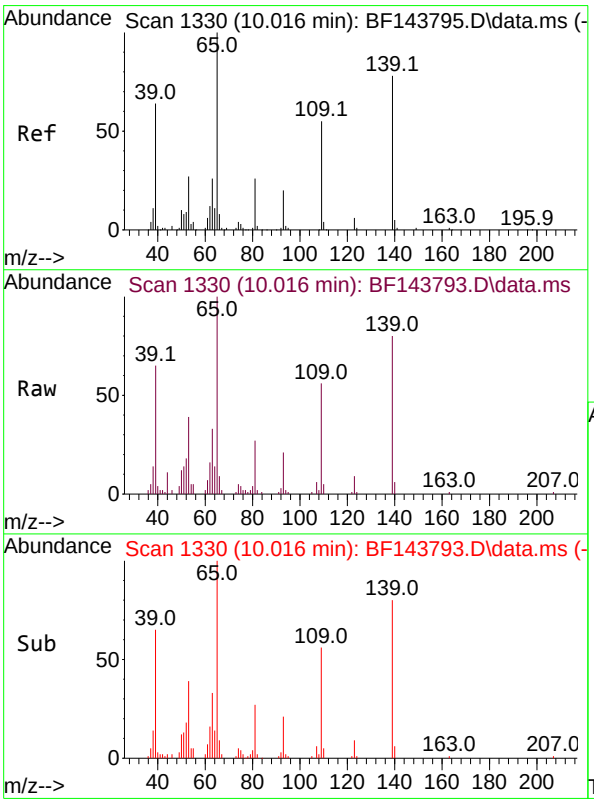
#55
Dibenzofuran
Concen: 10.393 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:168 Resp: 185710

Ion	Ratio	Lower	Upper
168	100		
139	39.0	31.0	46.6
169	14.6	11.9	17.9

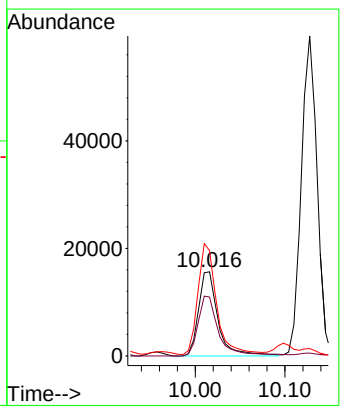


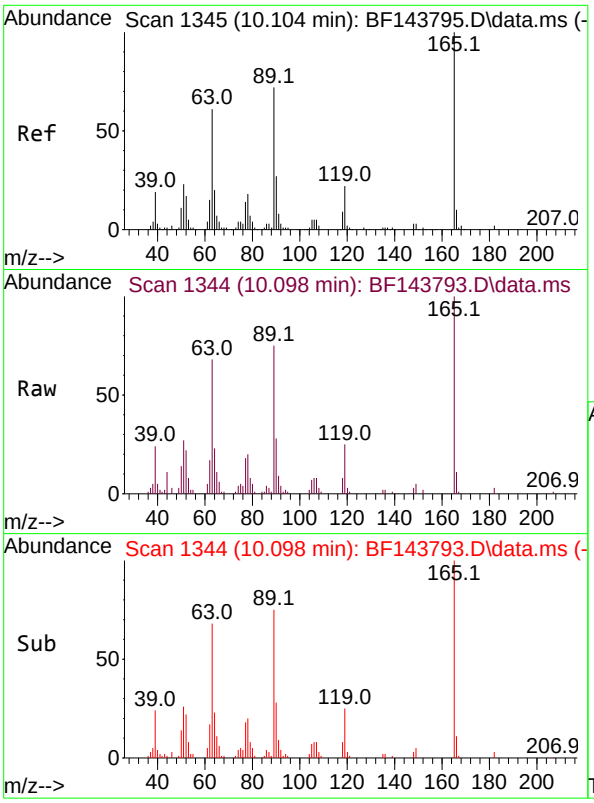


#56
4-Nitrophenol
Concen: 10.065 ng
RT: 10.016 min Scan# 1330
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:139 Resp: 23569

Ion	Ratio	Lower	Upper
139	100		
109	69.9	50.2	90.2
65	125.3	109.2	149.2



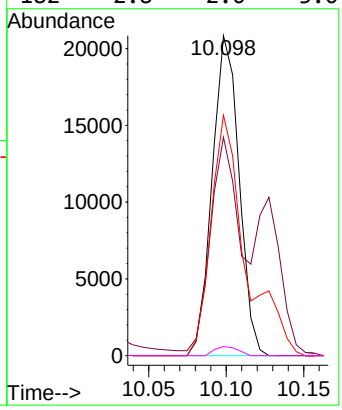


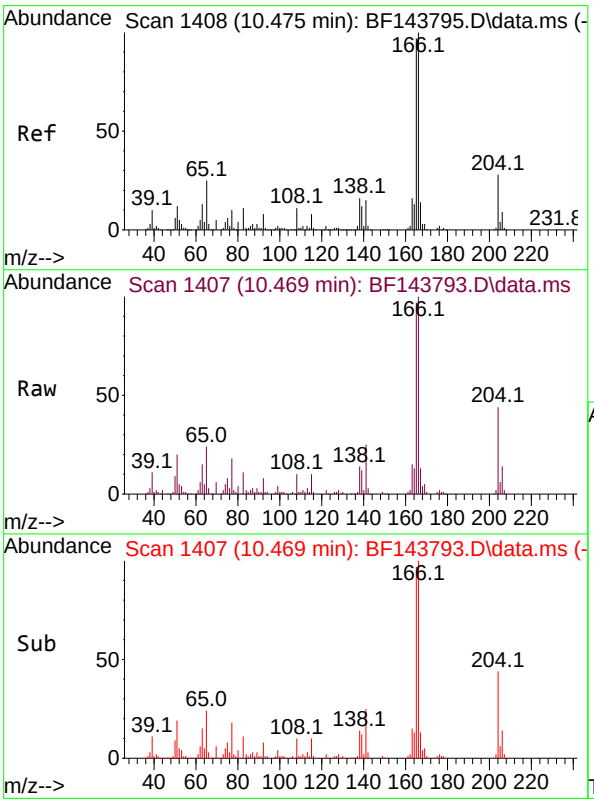
#57
2,4-Dinitrotoluene
Concen: 9.543 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 25096

Ion	Ratio	Lower	Upper
165	100		
63	68.2	48.9	73.3
89	75.1	57.5	86.3
182	2.8	2.0	3.0

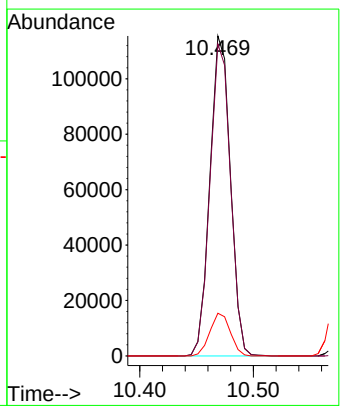


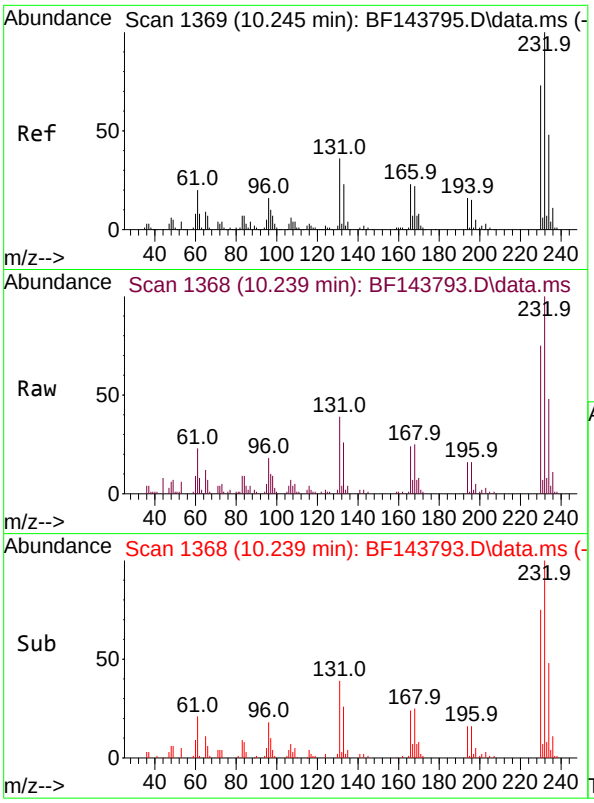


#58
Fluorene
Concen: 10.898 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:166 Resp: 144778

Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.0	117.0
167	13.3	10.9	16.3



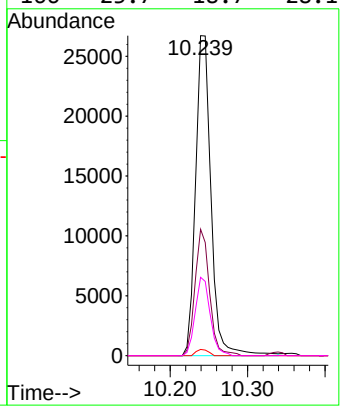


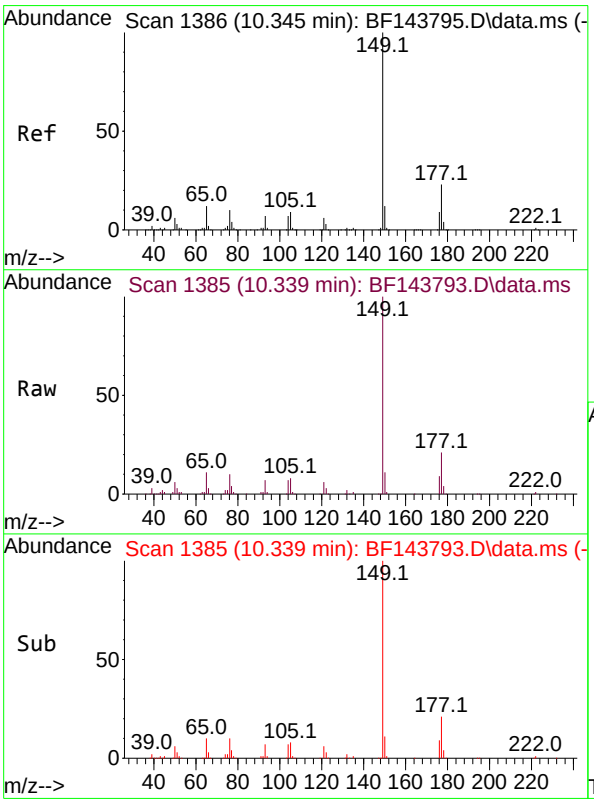
#59
2,3,4,6-Tetrachlorophenol
Concen: 9.120 ng
RT: 10.239 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:232 Resp: 36970

Ion	Ratio	Lower	Upper
232	100		
131	37.0	29.4	44.2
130	1.5	1.3	1.9
166	23.7	18.7	28.1

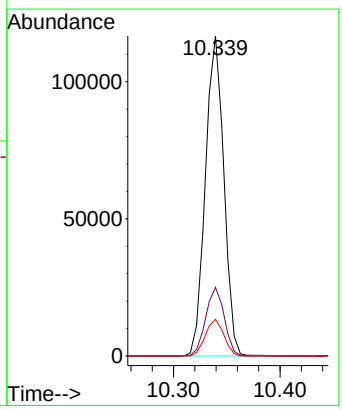


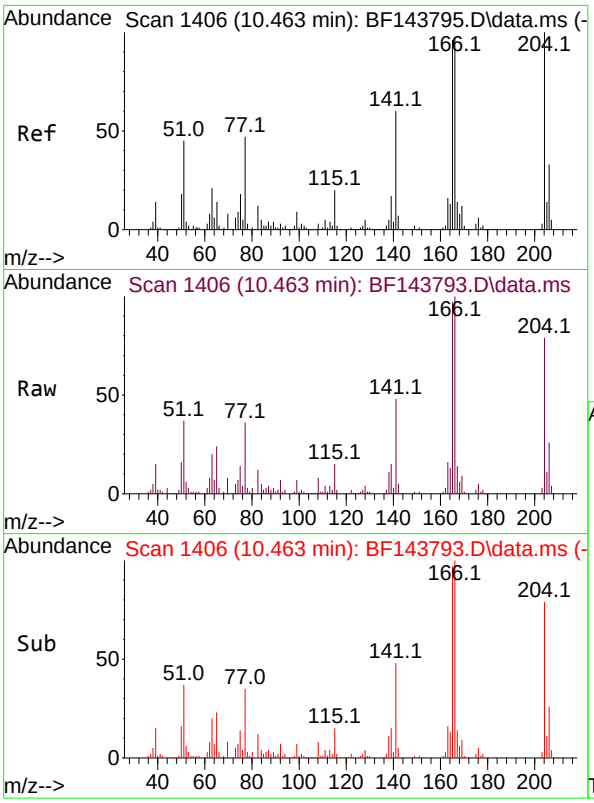


#60
Diethylphthalate
Concen: 10.254 ng
RT: 10.339 min Scan# 1385
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:149 Resp: 140054

Ion	Ratio	Lower	Upper
149	100		
177	21.4	18.1	27.1
150	11.4	9.7	14.5



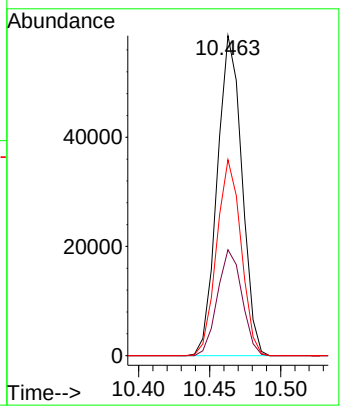


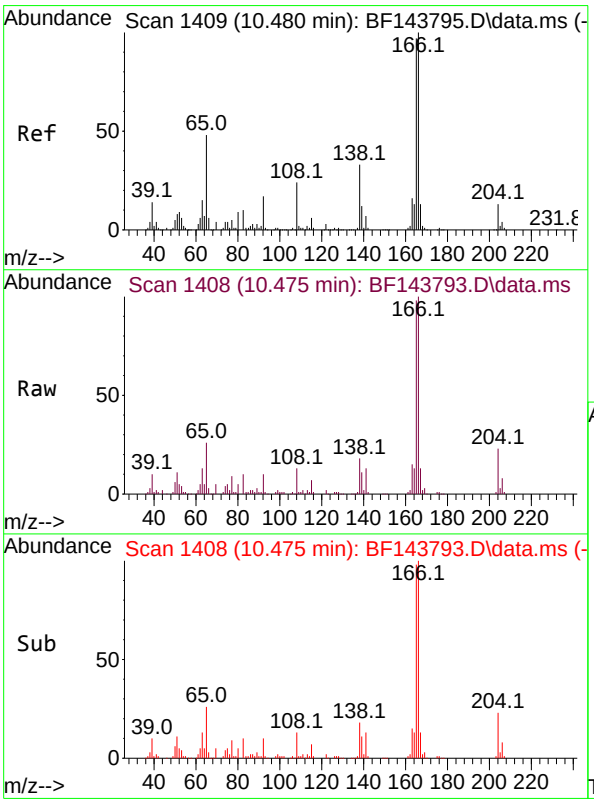
#61
4-Chlorophenyl-phenylether
Concen: 10.472 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:204 Resp: 70883

Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.7	40.1
141	61.2	48.2	72.2

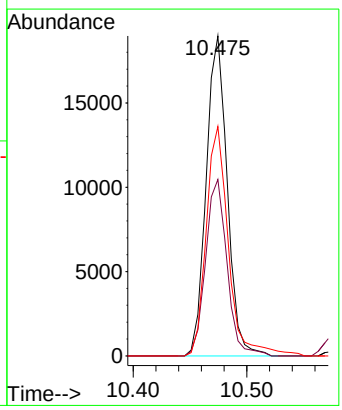


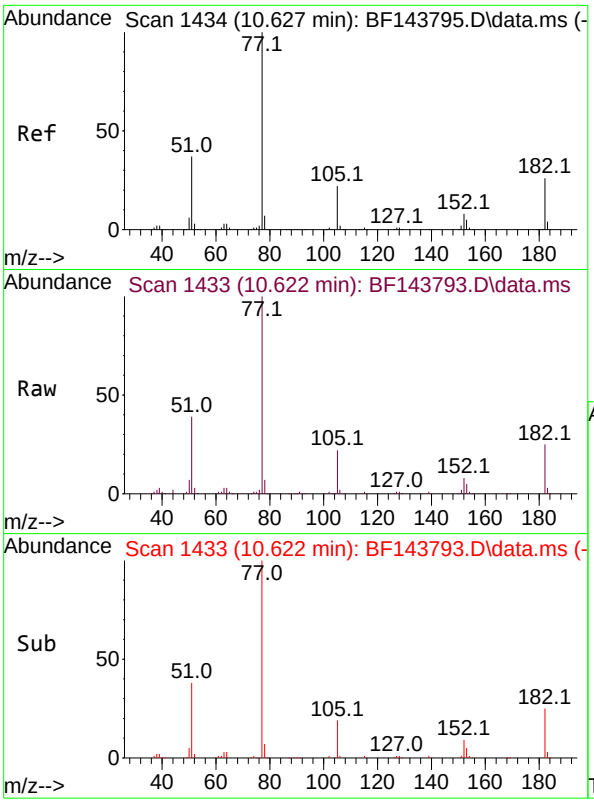


#62
4-Nitroaniline
Concen: 8.943 ng
RT: 10.475 min Scan# 1408
Delta R.T. -0.018 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:138 Resp: 24435

Ion	Ratio	Lower	Upper
138	100		
92	55.1	31.5	71.5
108	71.7	51.9	91.9



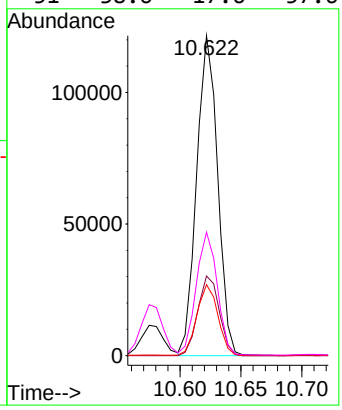


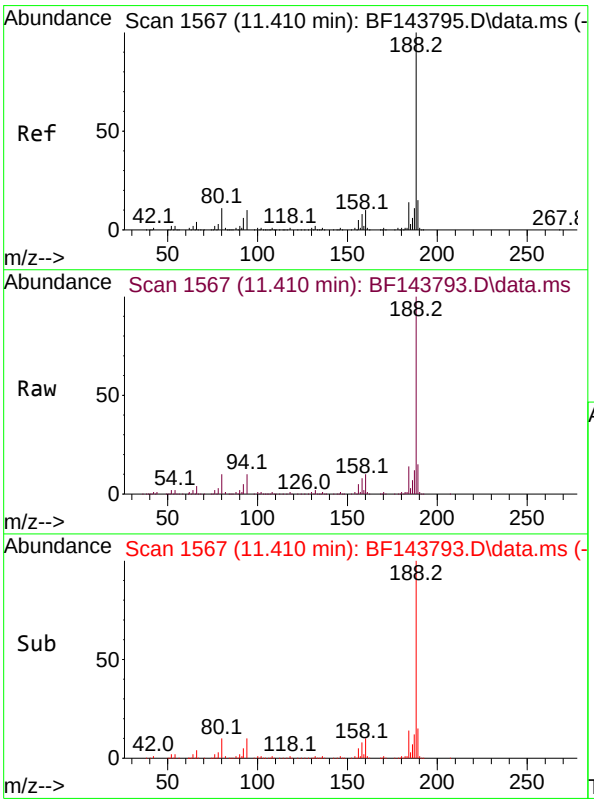
#63
Azobenzene
Concen: 10.152 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 146130

Ion	Ratio	Lower	Upper
77	100		
182	24.9	5.9	45.9
105	22.2	2.3	42.3
51	38.6	17.6	57.6

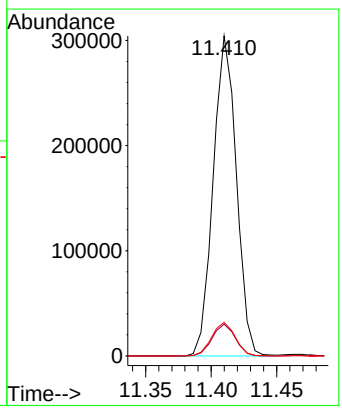


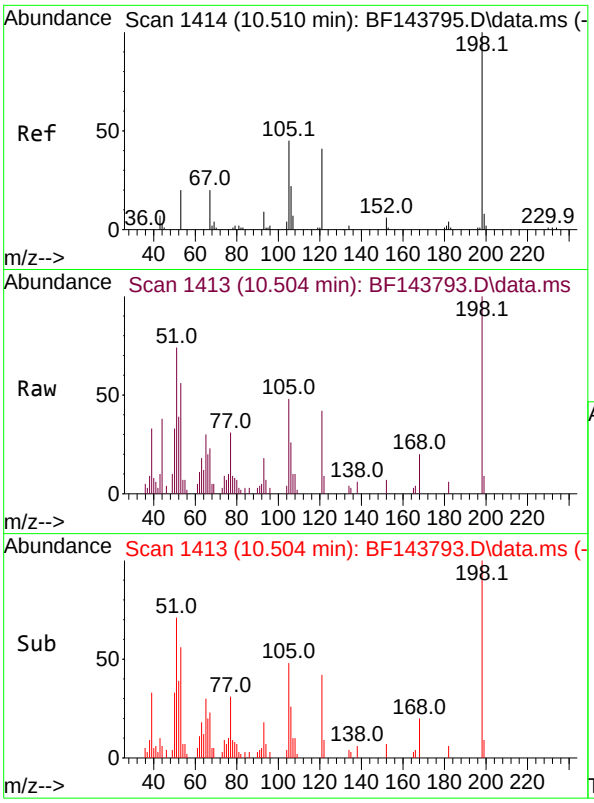


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:188 Resp: 375125

Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.2	12.2
80	10.5	8.6	12.8



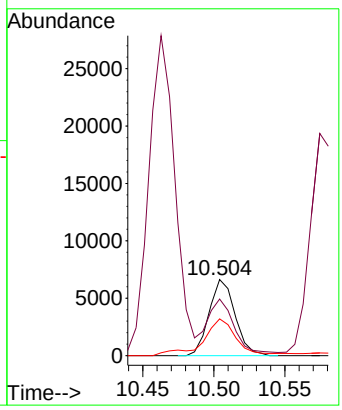


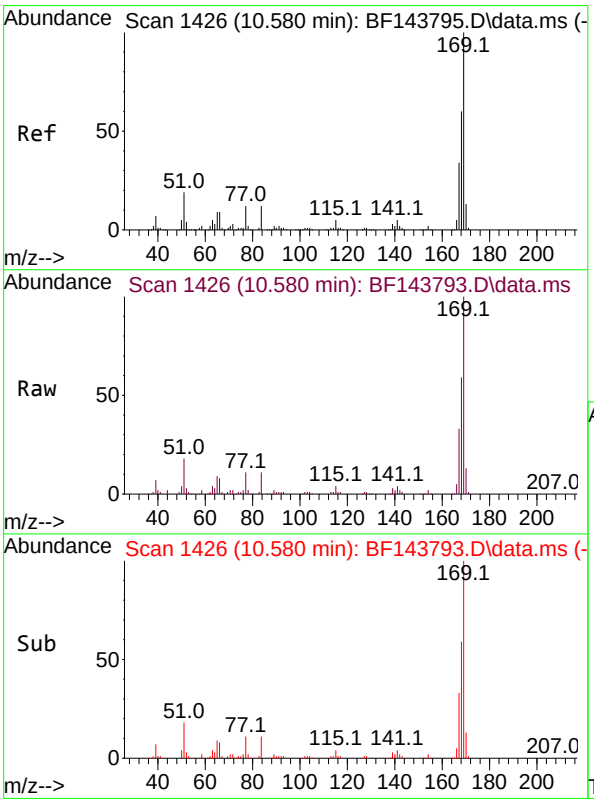
#65
4,6-Dinitro-2-methylphenol
Concen: 10.867 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:198 Resp: 8417

Ion	Ratio	Lower	Upper
198	100		
51	74.4	52.0	92.0
105	48.2	27.5	67.5

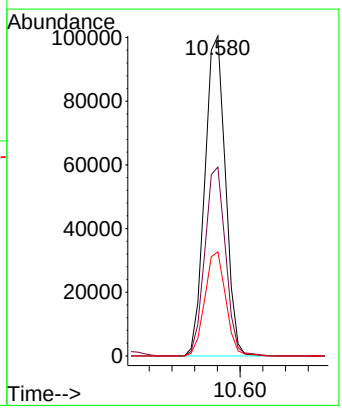


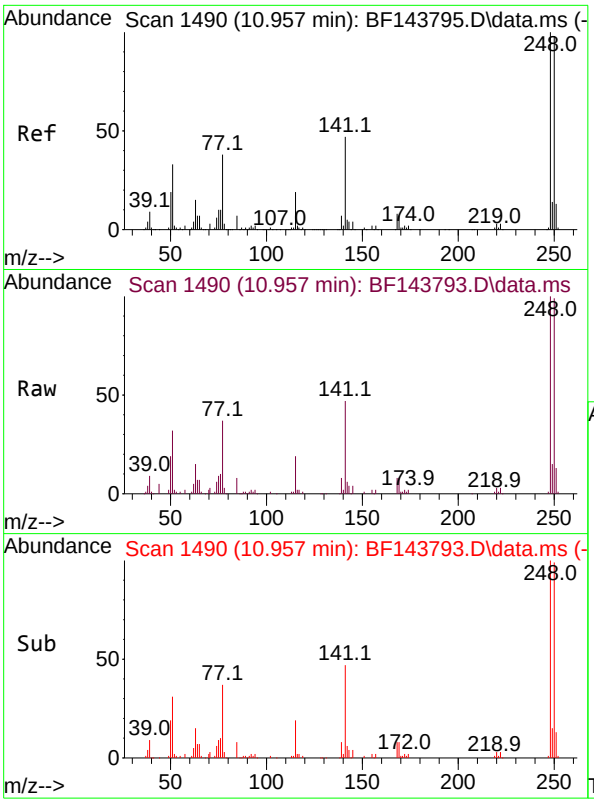


#66
n-Nitrosodiphenylamine
Concen: 10.261 ng
RT: 10.580 min Scan# 1426
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:169 Resp: 126584

Ion	Ratio	Lower	Upper
169	100		
168	59.0	47.9	71.9
167	32.5	27.0	40.6



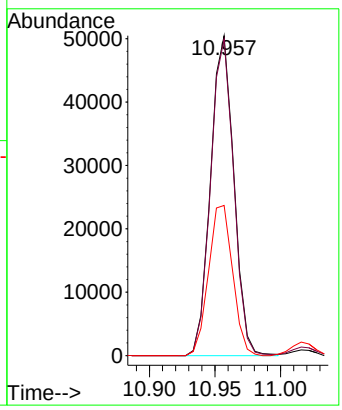


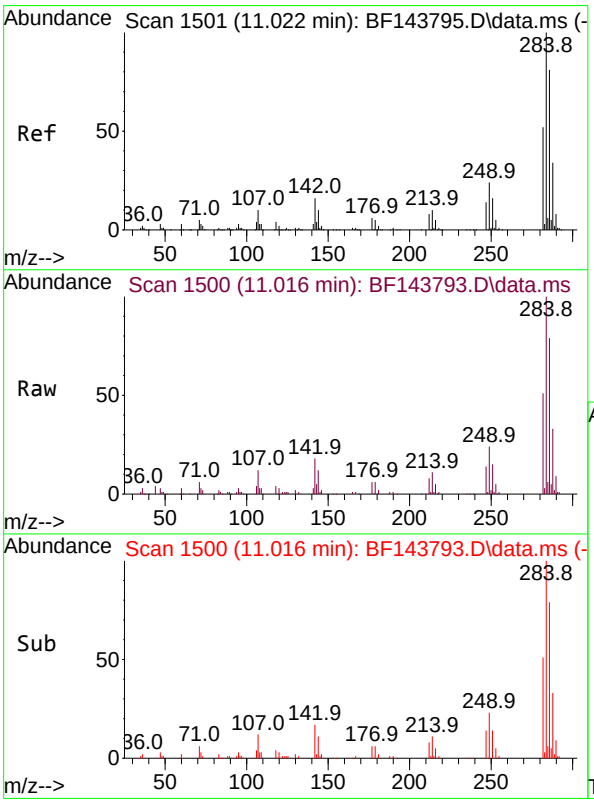
#67
4-Bromophenyl-phenylether
Concen: 9.784 ng
RT: 10.957 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:248 Resp: 62547

Ion	Ratio	Lower	Upper
248	100		
250	98.9	78.7	118.1
141	46.9	37.9	56.9

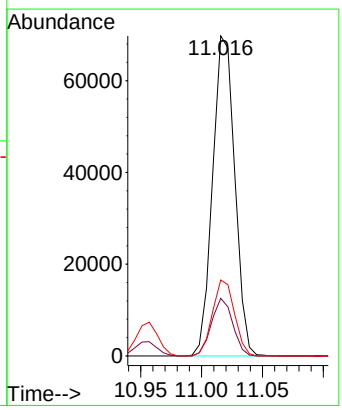


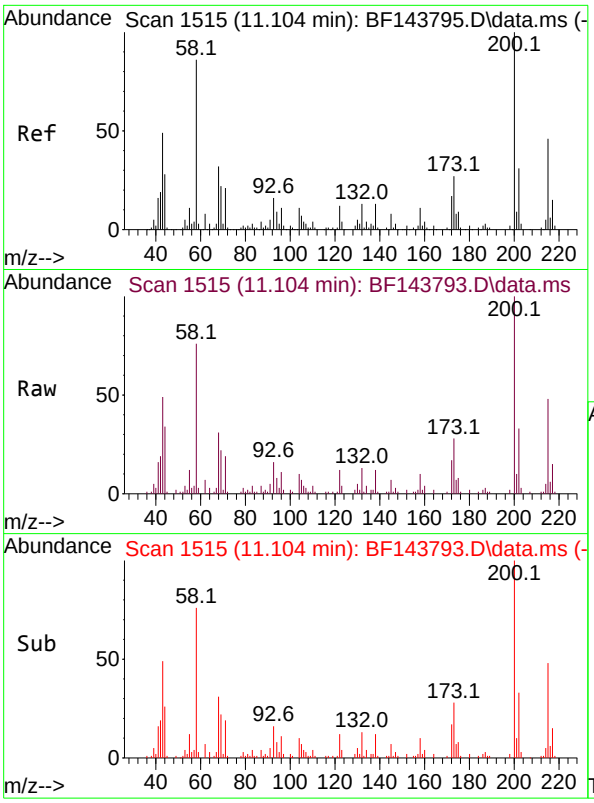


#68
Hexachlorobenzene
Concen: 10.009 ng
RT: 11.016 min Scan# 1500
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:284 Resp: 88177

Ion	Ratio	Lower	Upper
284	100		
142	18.0	13.1	19.7
249	23.7	19.5	29.3



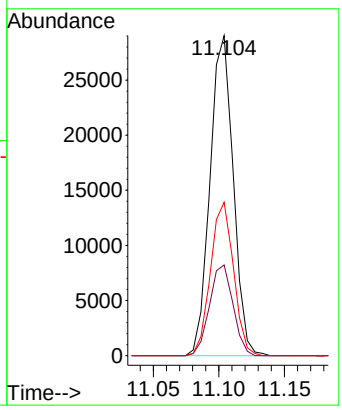


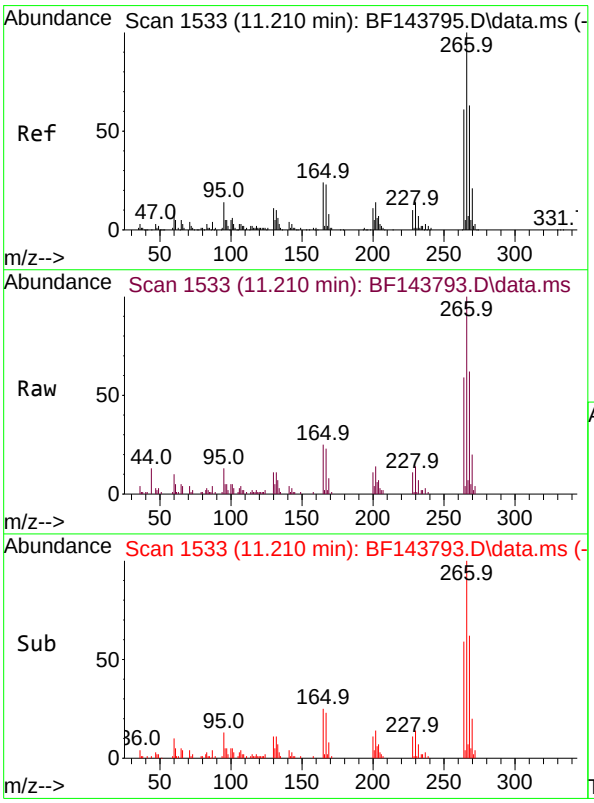
#69
Atrazine
Concen: 10.010 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:200 Resp: 35762

Ion	Ratio	Lower	Upper
200	100		
173	28.3	7.2	47.2
215	47.9	26.0	66.0

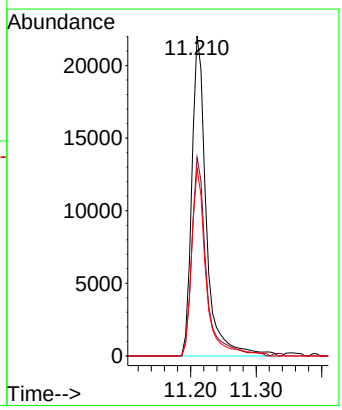


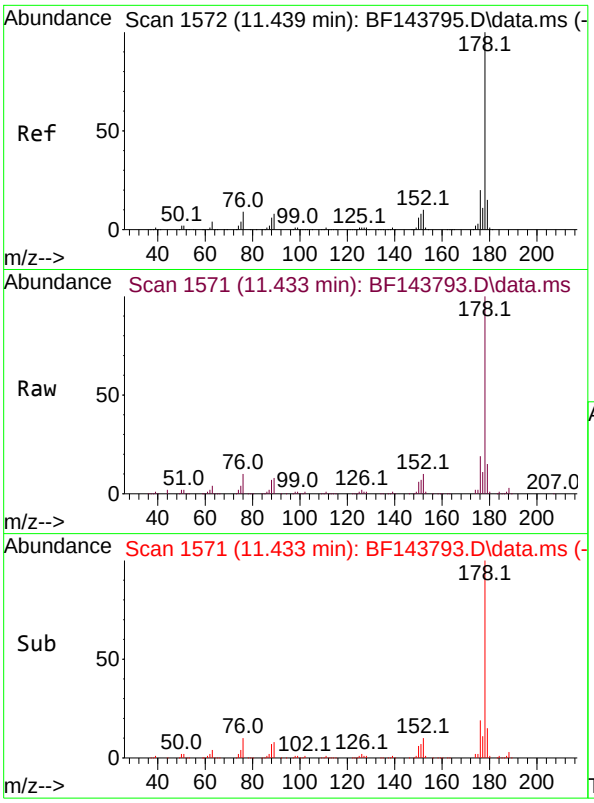


#70
Pentachlorophenol
Concen: 7.704 ng
RT: 11.210 min Scan# 1533
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:266 Resp: 33783

Ion	Ratio	Lower	Upper
266	100		
268	62.0	50.5	75.7
264	58.6	48.8	73.2



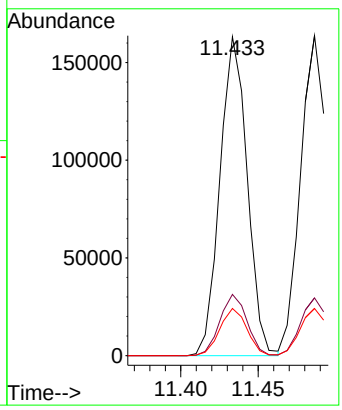


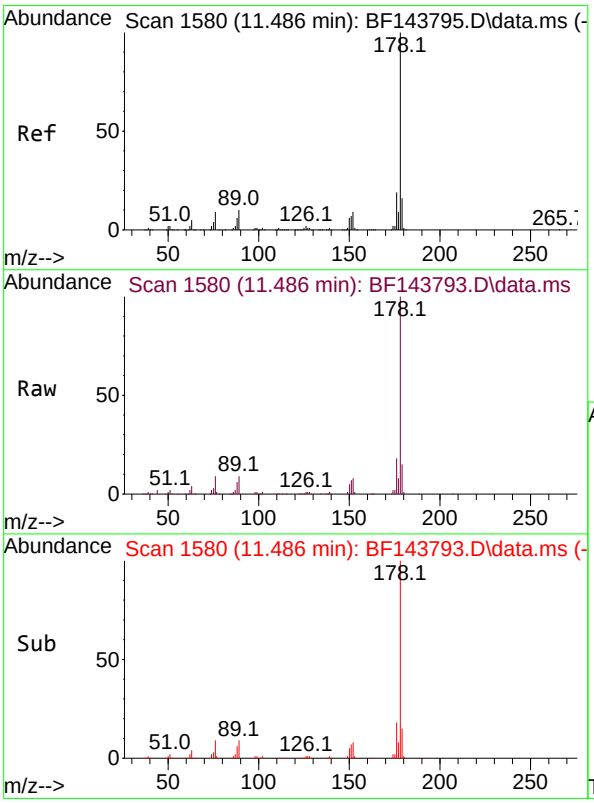
#71
Phenanthrene
Concen: 10.386 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:178 Resp: 200025

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.6	23.4
179	14.8	12.2	18.4

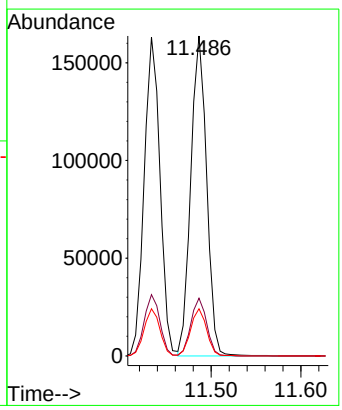


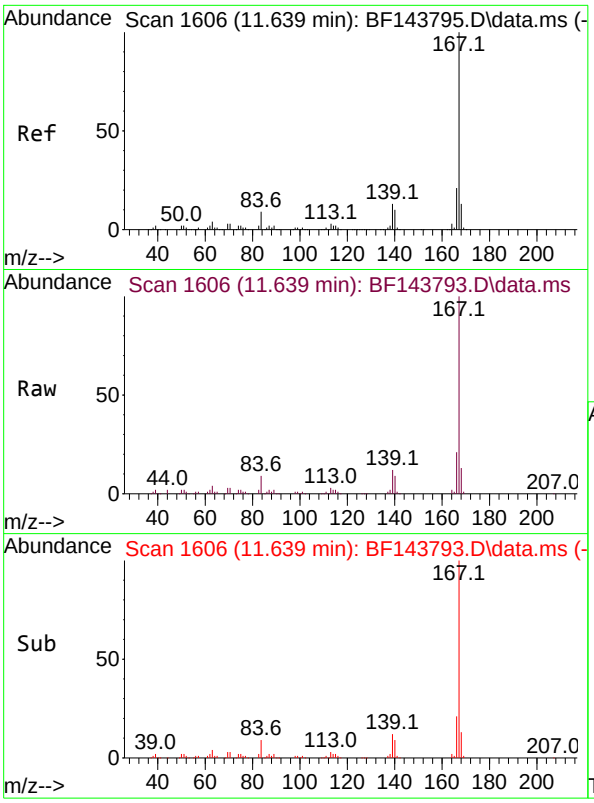


#72
Anthracene
Concen: 10.379 ng
RT: 11.486 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:178 Resp: 200505

Ion	Ratio	Lower	Upper
178	100		
176	18.0	15.3	22.9
179	14.7	12.8	19.2



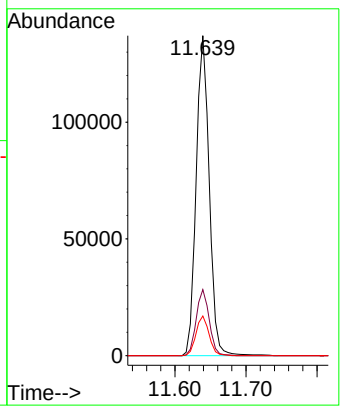


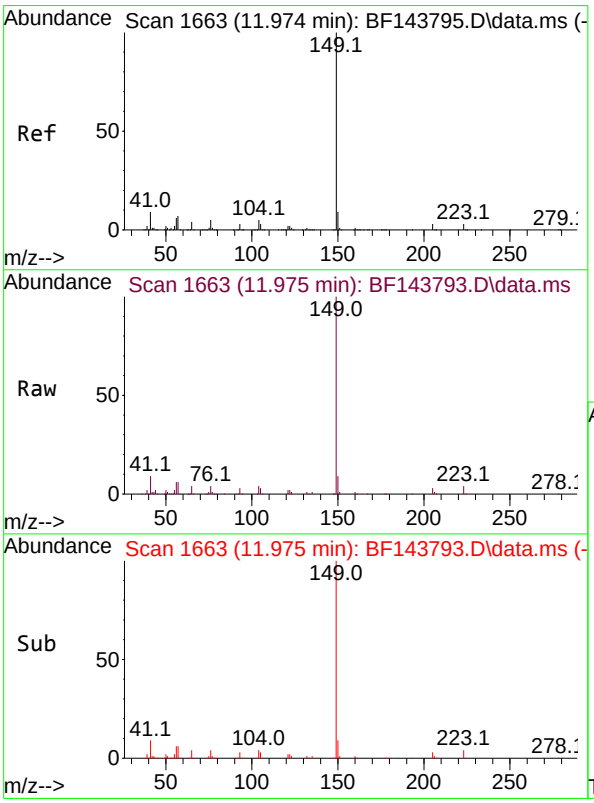
#73
Carbazole
Concen: 10.337 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:167 Resp: 174601

Ion	Ratio	Lower	Upper
167	100		
166	20.6	17.0	25.4
139	12.4	10.6	15.8

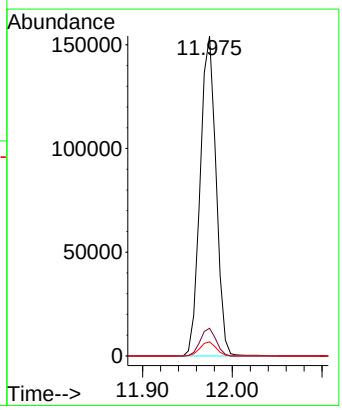


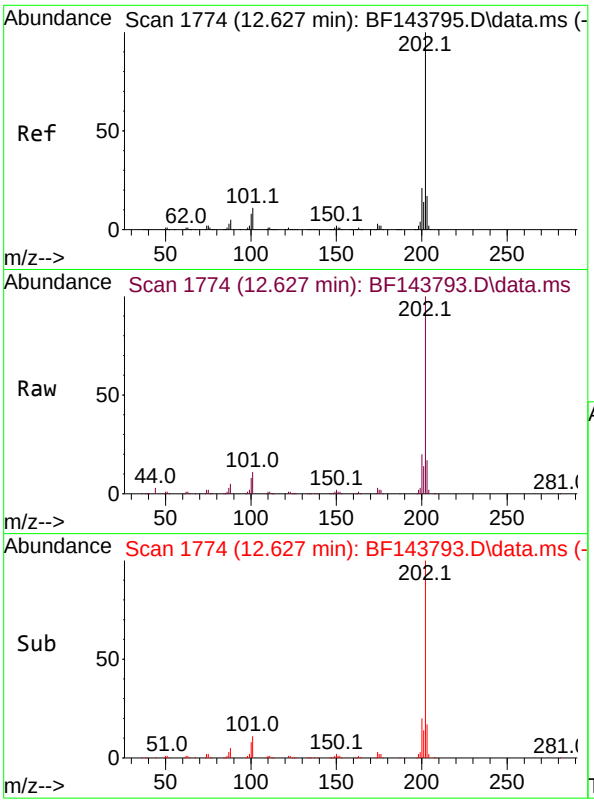


#74
Di-n-butylphthalate
Concen: 9.736 ng
RT: 11.975 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:149 Resp: 189120

Ion	Ratio	Lower	Upper
149	100		
150	8.6	7.3	10.9
104	4.4	3.6	5.4



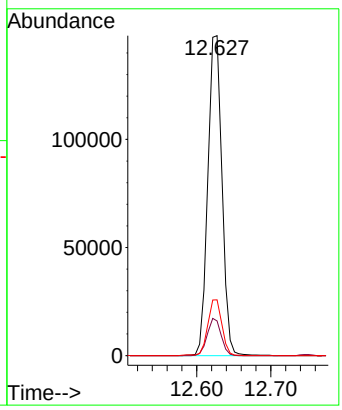


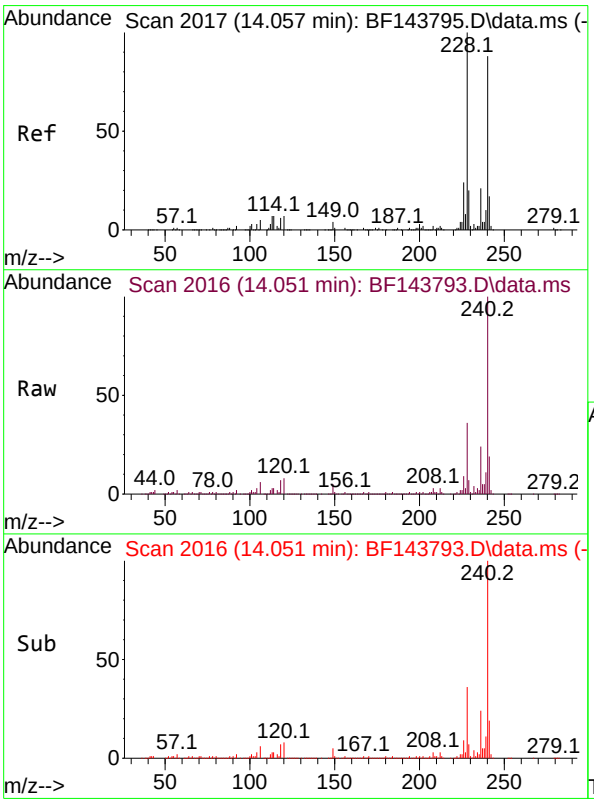
#75
Fluoranthene
Concen: 10.129 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:202 Resp: 196207

Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	31.1
203	17.4	0.0	37.4

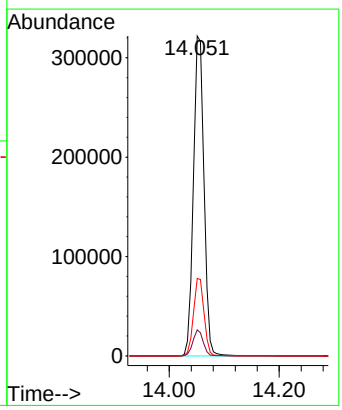


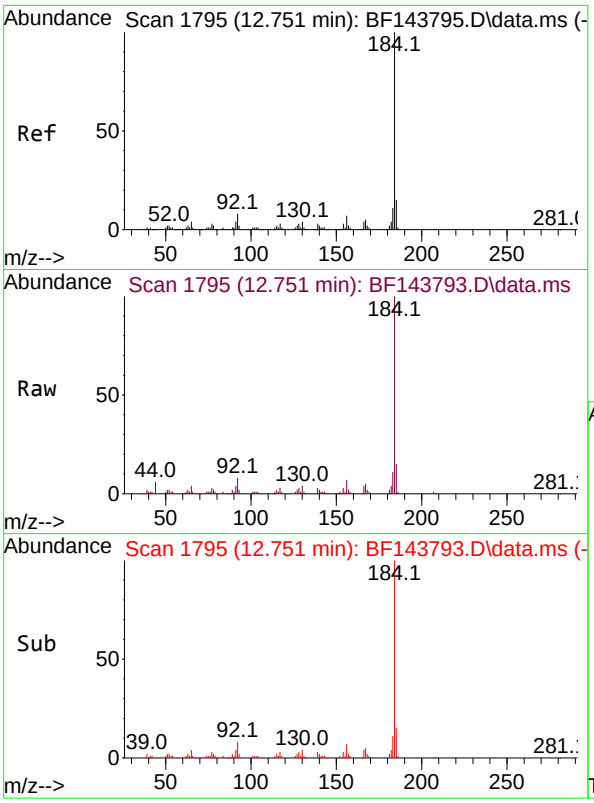


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.051 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:240 Resp: 430577

Ion	Ratio	Lower	Upper
240	100		
120	8.1	6.2	9.4
236	24.2	19.4	29.2



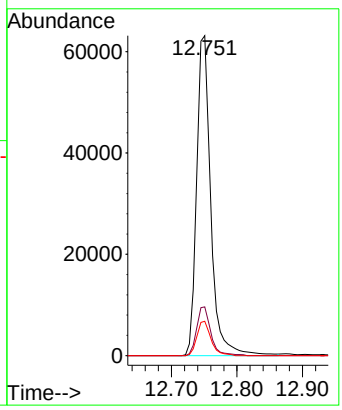


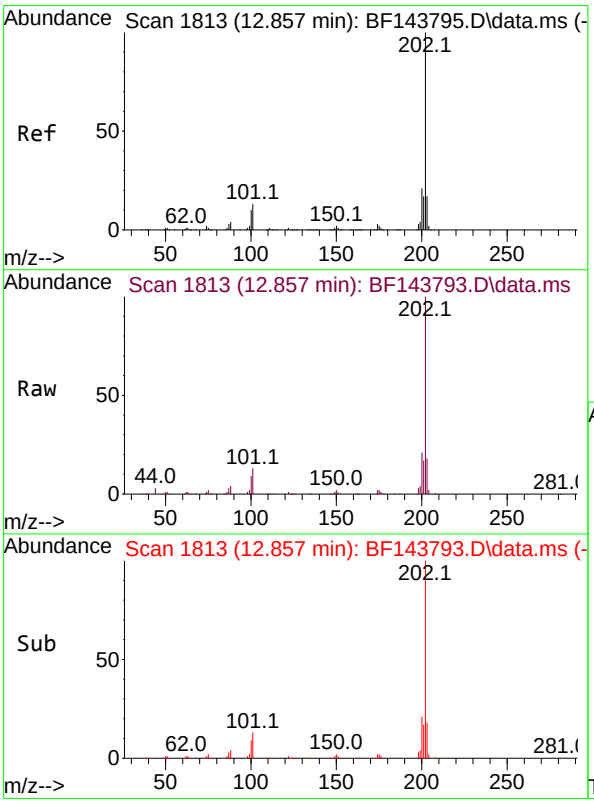
#77
Benzidine
Concen: 8.997 ng
RT: 12.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:184 Resp: 94401

Ion	Ratio	Lower	Upper
184	100		
185	15.2	11.6	17.4
183	10.7	8.6	13.0

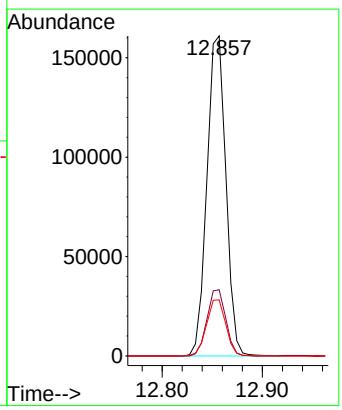


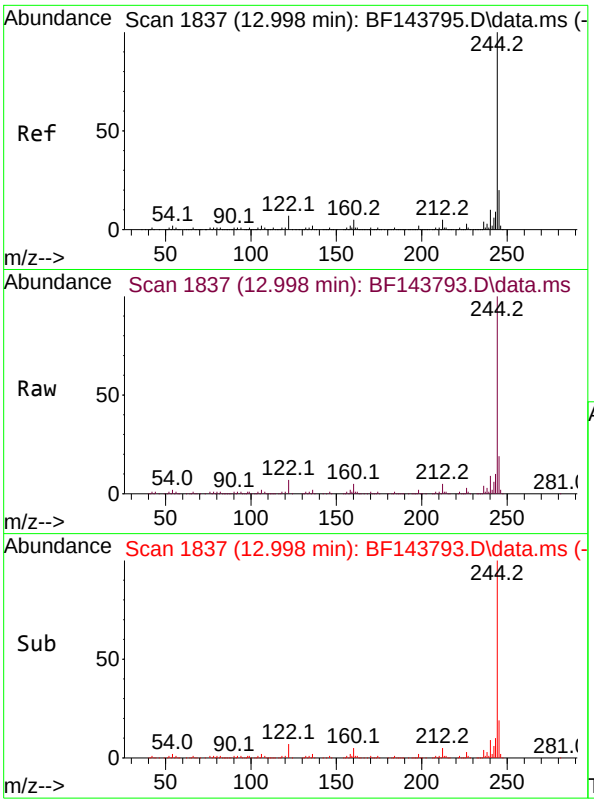


#78
Pyrene
Concen: 9.983 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:202 Resp: 211336

Ion	Ratio	Lower	Upper
202	100		
200	20.7	17.0	25.4
203	17.5	13.9	20.9



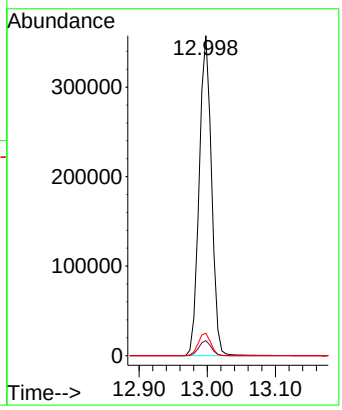


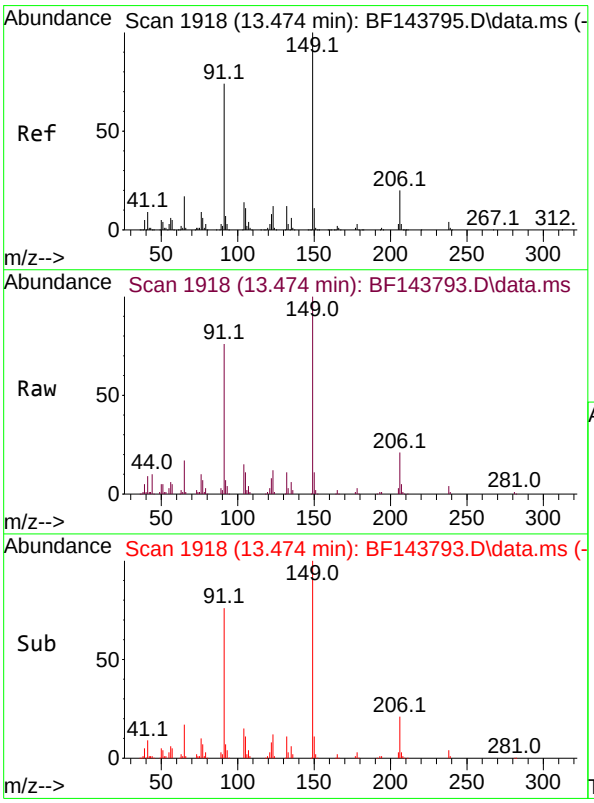
#79
Terphenyl-d14
Concen: 20.493 ng
RT: 12.998 min Scan# 18
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:244 Resp: 449442

Ion	Ratio	Lower	Upper
244	100		
212	4.7	3.9	5.9
122	7.0	5.6	8.4

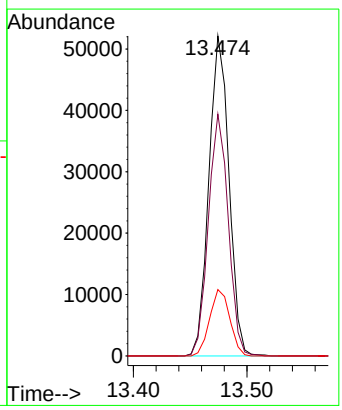


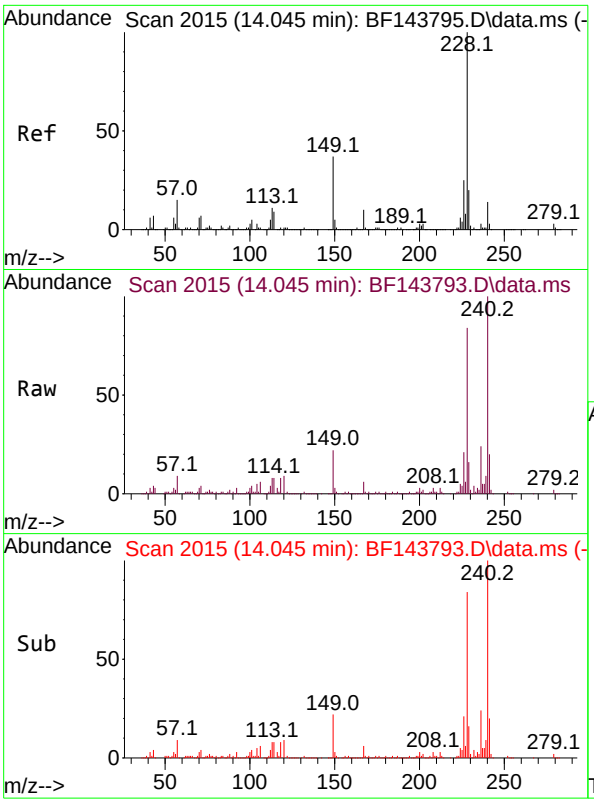


#80
Butylbenzylphthalate
Concen: 8.751 ng
RT: 13.474 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:149 Resp: 64090

Ion	Ratio	Lower	Upper
149	100		
91	75.5	59.5	89.3
206	20.8	16.1	24.1



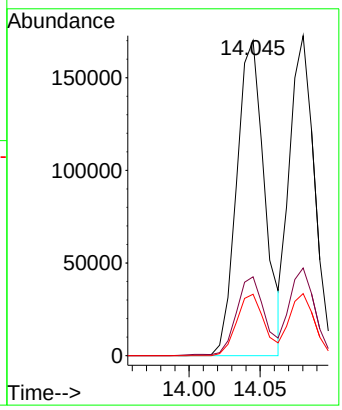


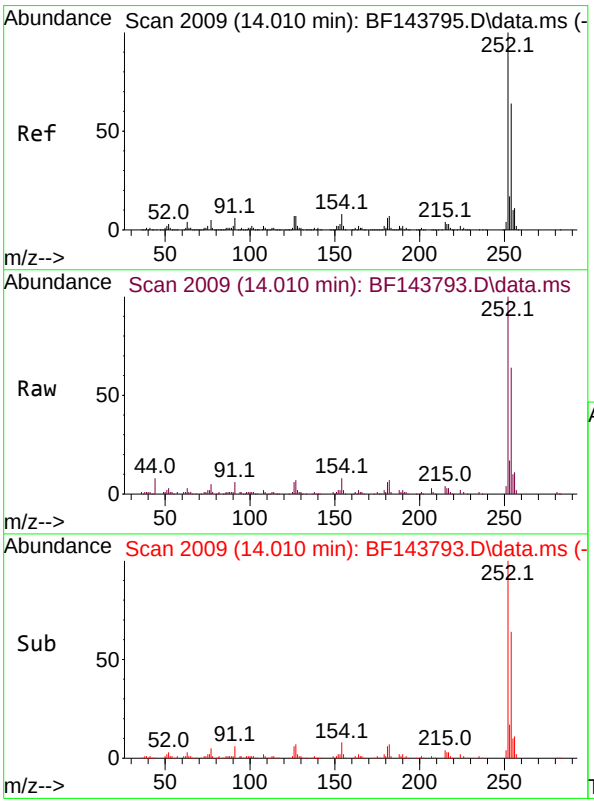
#81
Benzo(a)anthracene
Concen: 10.061 ng
RT: 14.045 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 232722

Ion	Ratio	Lower	Upper
228	100		
226	25.0	20.2	30.2
229	19.5	16.1	24.1

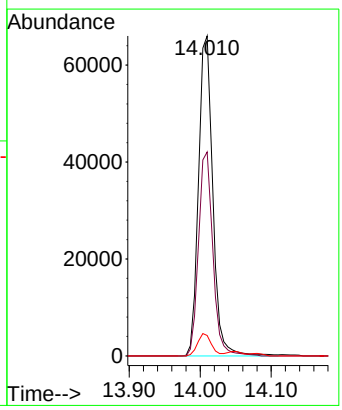


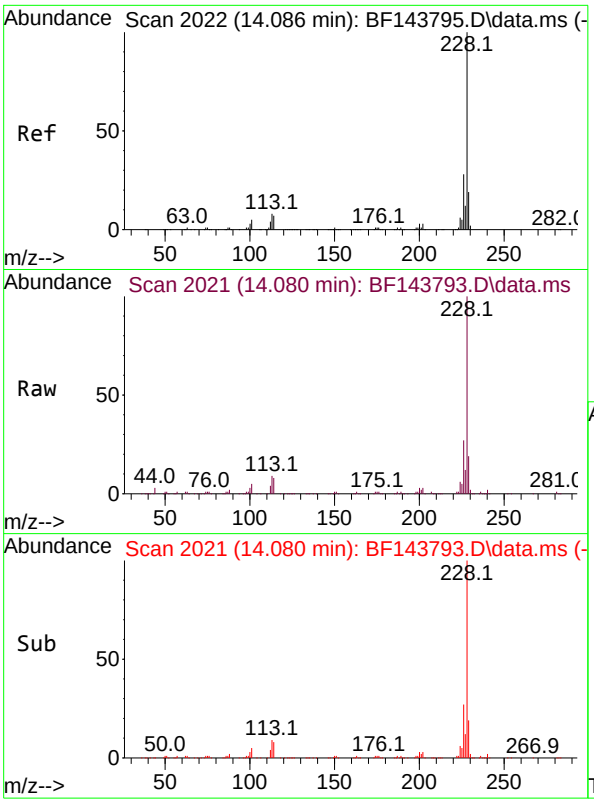


#82
3,3'-Dichlorobenzidine
Concen: 9.160 ng
RT: 14.010 min Scan# 2009
Delta R.T. 0.000 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:252 Resp: 91789

Ion	Ratio	Lower	Upper
252	100		
254	63.8	51.5	77.3
126	6.4	5.4	8.2



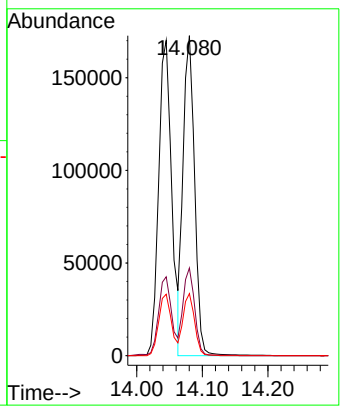


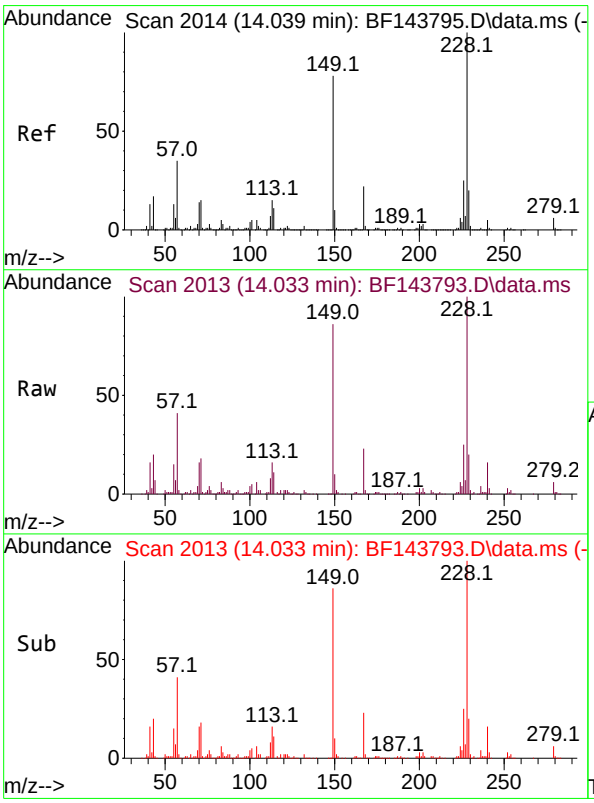
#83
Chrysene
Concen: 10.133 ng
RT: 14.080 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:228 Resp: 212098

Ion	Ratio	Lower	Upper
228	100		
226	27.4	22.6	33.8
229	19.4	15.6	23.4

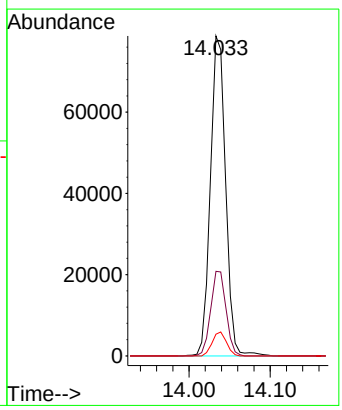


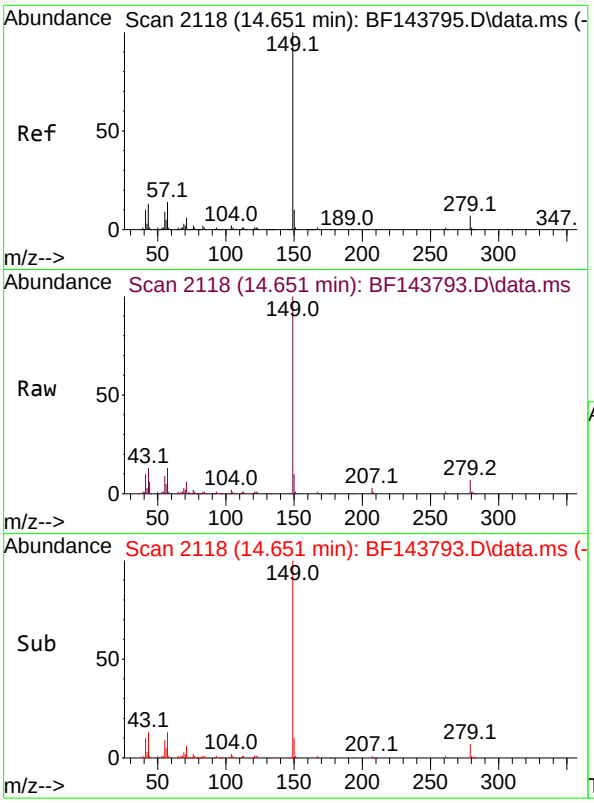


#84
Bis(2-ethylhexyl)phthalate
Concen: 9.557 ng
RT: 14.033 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:149 Resp: 102600

Ion	Ratio	Lower	Upper
149	100		
167	26.4	22.2	33.2
279	6.8	6.0	9.0



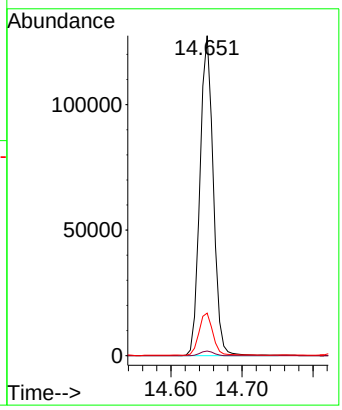


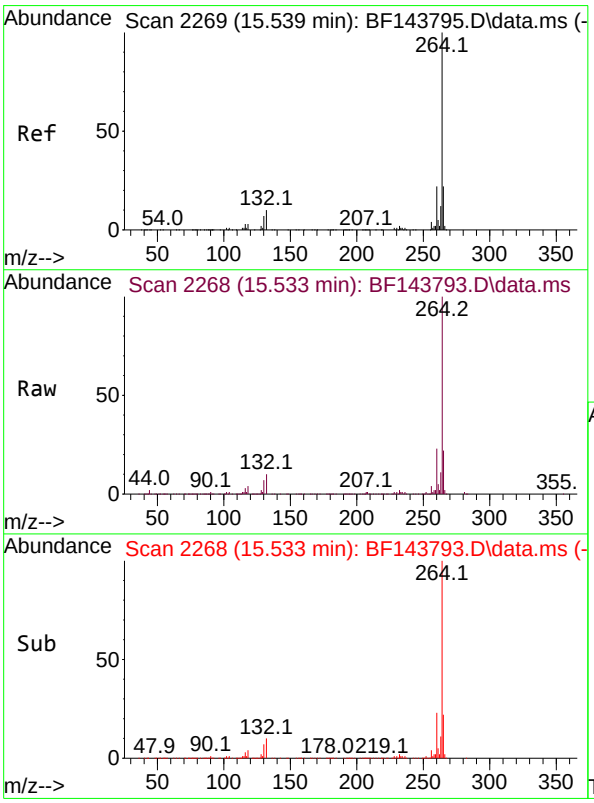
#85
Di-n-octyl phthalate
Concen: 8.482 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:149 Resp: 165178

Ion	Ratio	Lower	Upper
149	100		
167	1.4	1.1	1.7
43	13.7	10.7	16.1

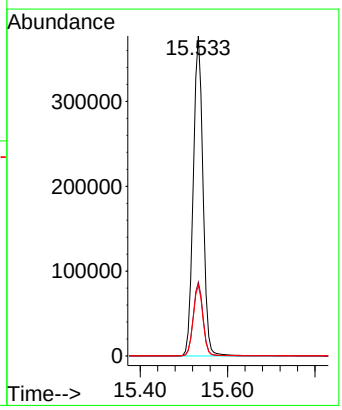


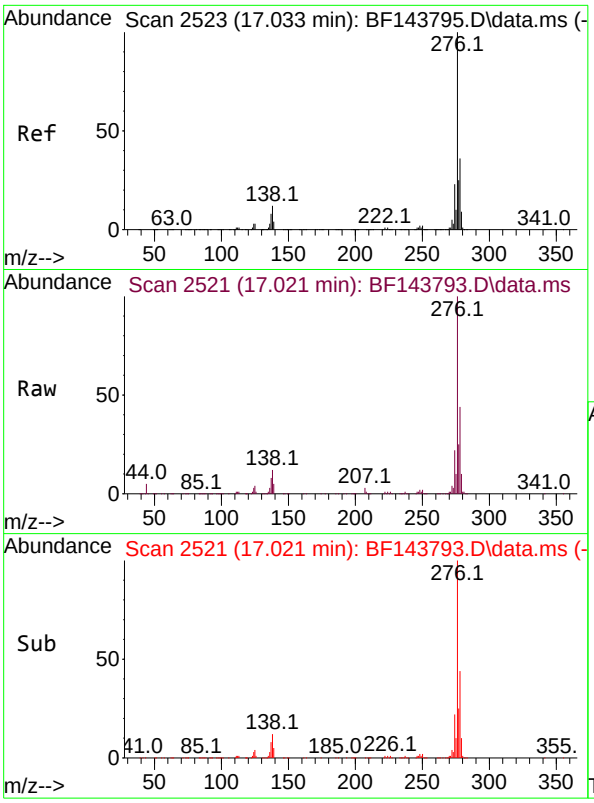


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:264 Resp: 582350

Ion	Ratio	Lower	Upper
264	100		
260	23.0	17.9	26.9
265	22.1	17.7	26.5



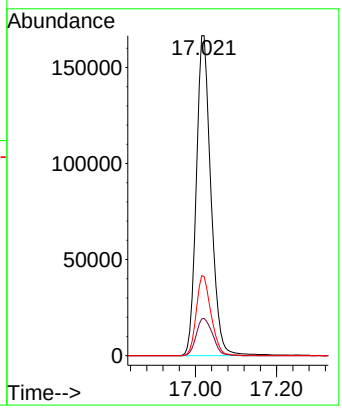


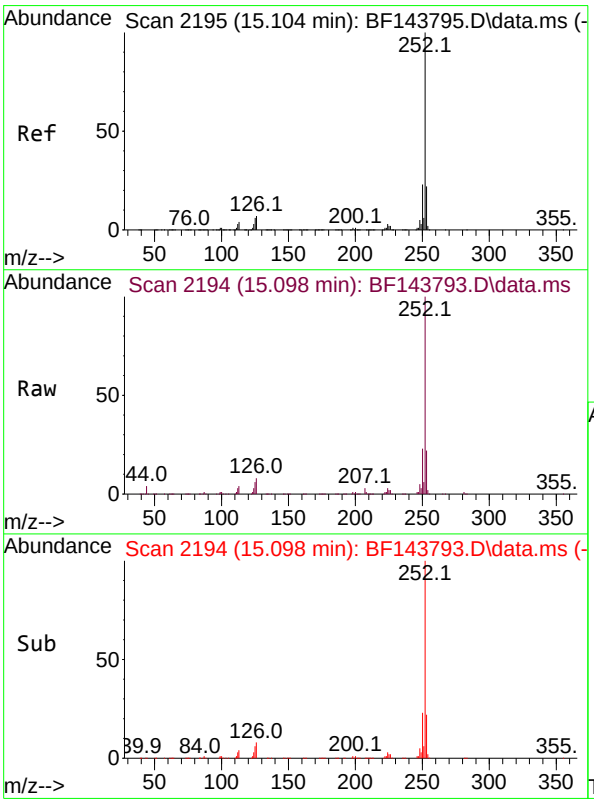
#87
Indeno(1,2,3-cd)pyrene
Concen: 9.400 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:276 Resp: 415337

Ion	Ratio	Lower	Upper
276	100		
138	13.0	10.6	15.8
277	25.1	20.7	31.1

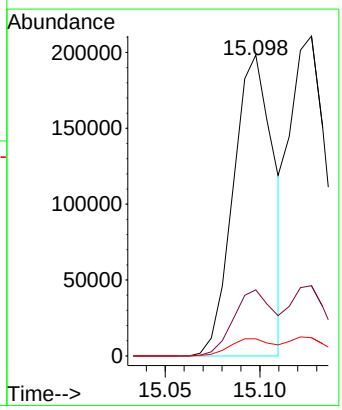


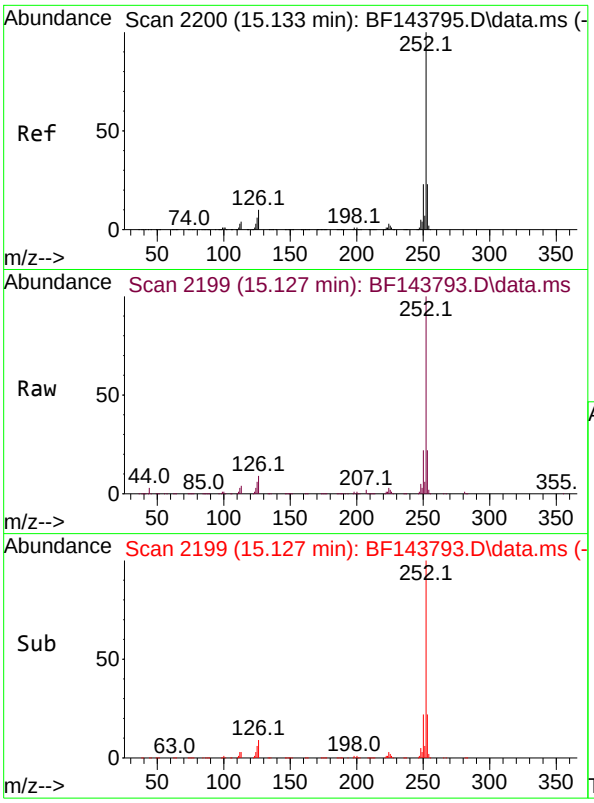


#88
Benzo(b)fluoranthene
Concen: 9.857 ng
RT: 15.098 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:252 Resp: 292308

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.8	26.8
125	5.7	4.4	6.6



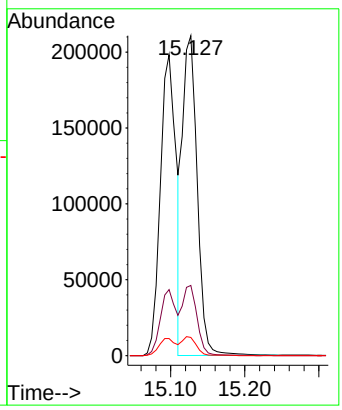


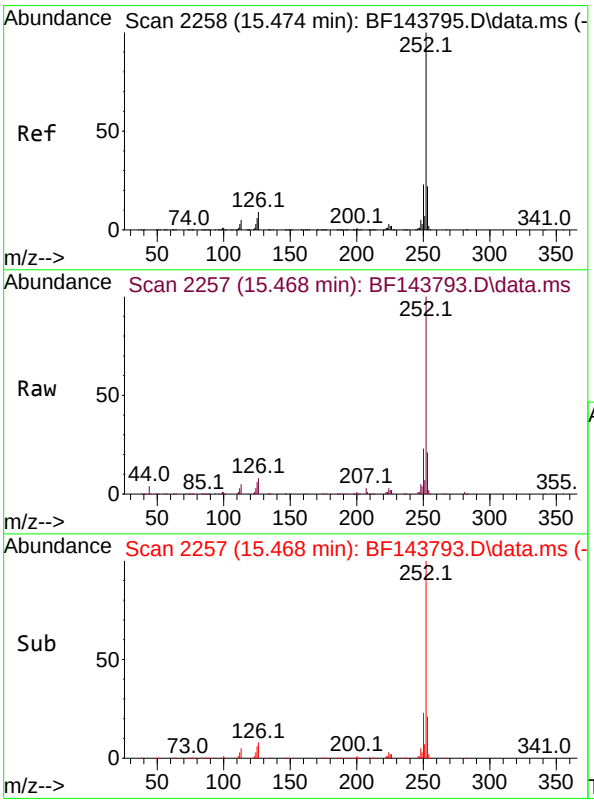
#89
Benzo(k)fluoranthene
Concen: 9.808 ng
RT: 15.127 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:252 Resp: 292238

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.9	26.9
125	5.7	4.6	6.8

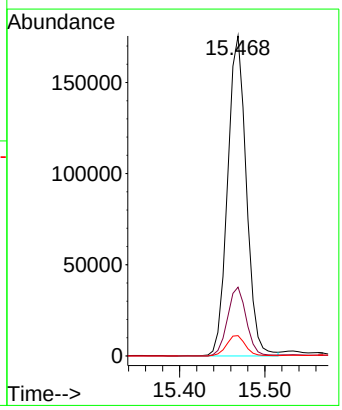


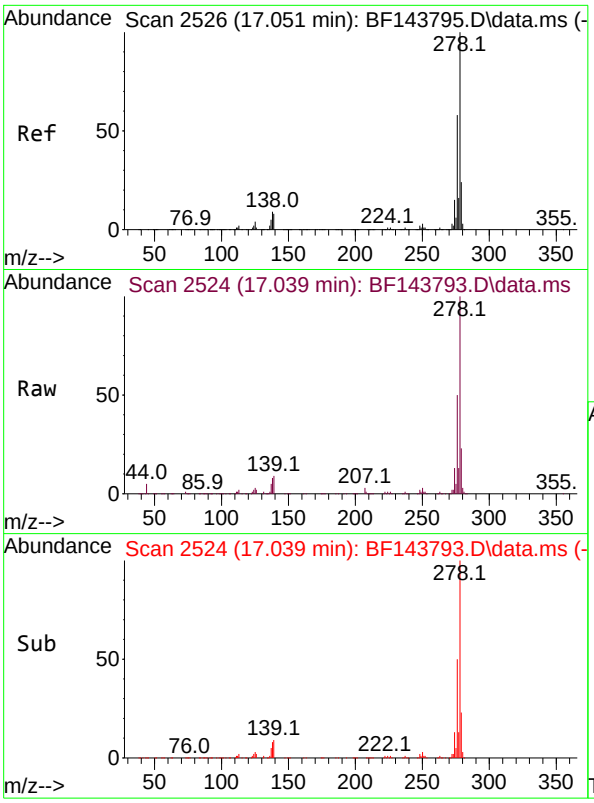


#90
Benzo(a)pyrene
Concen: 9.606 ng
RT: 15.468 min Scan# 2257
Delta R.T. -0.012 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:252 Resp: 267775

Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.6	26.4
125	6.3	5.0	7.4



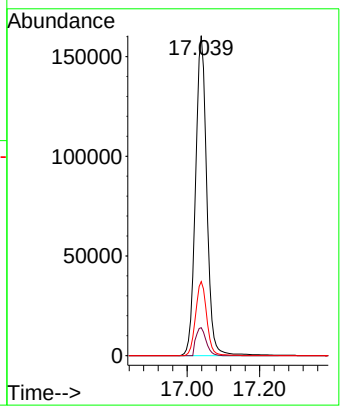


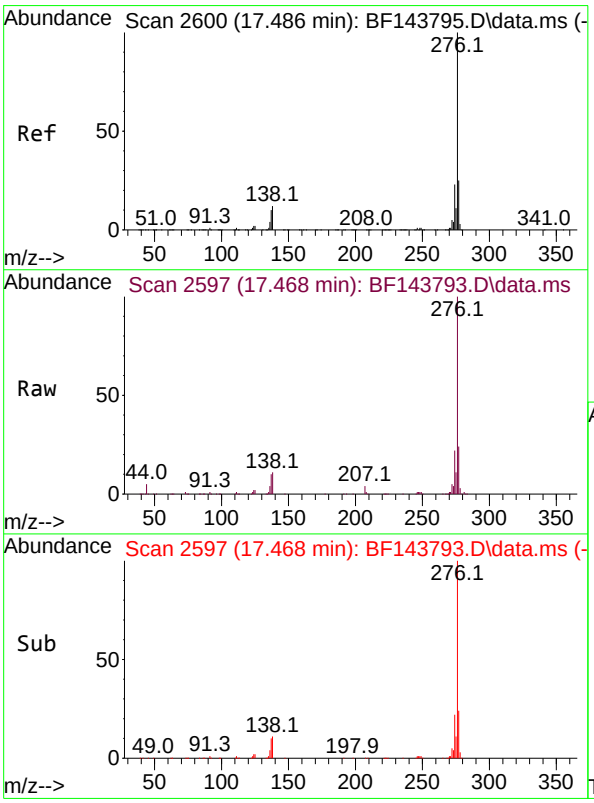
#91
Dibenzo(a,h)anthracene
Concen: 9.564 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.029 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:278 Resp: 345636

Ion	Ratio	Lower	Upper
278	100		
139	8.7	6.7	10.1
279	23.2	19.3	28.9

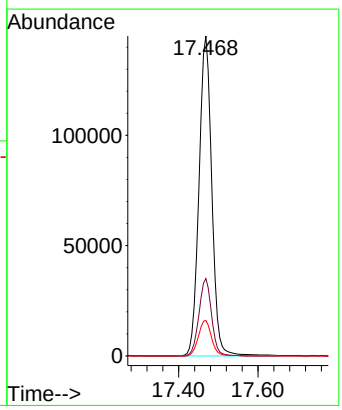




#92
Benzo(g,h,i)perylene
Concen: 9.329 ng
RT: 17.468 min Scan# 2597
Delta R.T. -0.035 min
Lab File: BF143793.D
Acq: 23 Sep 2025 11:57

Tgt Ion:276 Resp: 324982

Ion	Ratio	Lower	Upper
276	100		
277	24.2	19.6	29.4
138	11.1	9.2	13.8



ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143794.D
Acq On : 23 Sep 2025 12:27
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Sep 23 17:06:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	123560	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	446120	20.000	ng		0.00
39) Acenaphthene-d10	9.922	164	213356	20.000	ng		0.00
64) Phenanthrene-d10	11.410	188	331910	20.000	ng		0.00
76) Chrysene-d12	14.057	240	394143	20.000	ng		0.00
86) Perylene-d12	15.533	264	545751	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.487	112	327687	42.681	ng		-0.01
7) Phenol-d6	6.498	99	377986	41.720	ng		-0.01
23) Nitrobenzene-d5	7.445	82	302138	42.621	ng		0.00
42) 2,4,6-Tribromophenol	10.710	330	138317	45.426	ng		0.00
45) 2-Fluorobiphenyl	9.239	172	622849	43.140	ng		0.00
79) Terphenyl-d14	12.998	244	798420	39.771	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.628	88	73941	20.313	ng		99
3) Pyridine	3.399	79	200605	20.416	ng		98
4) n-Nitrosodimethylamine	3.328	42	100296	20.357	ng		98
6) Aniline	6.545	93	266602	20.904	ng		99
8) 2-Chlorophenol	6.663	128	164198	21.090	ng		98
9) Benzaldehyde	6.434	77	117654	15.290	ng		99
10) Phenol	6.510	94	214576m	21.008	ng		
11) bis(2-Chloroethyl)ether	6.616	93	166393	20.783	ng		99
12) 1,3-Dichlorobenzene	6.828	146	192258	21.268	ng		99
13) 1,4-Dichlorobenzene	6.904	146	191454	21.223	ng		100
14) 1,2-Dichlorobenzene	7.057	146	181008	21.185	ng		99
15) Benzyl Alcohol	7.016	79	132713	20.902	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	398403	20.985	ng		100
17) 2-Methylphenol	7.128	107	124617	20.674	ng		99
18) Hexachloroethane	7.398	117	67048	21.134	ng		98
19) n-Nitroso-di-n-propyla...	7.287	70	114449	20.254	ng		100
20) 3+4-Methylphenols	7.281	107	155211	21.145	ng	#	86
22) Acetophenone	7.293	105	208896	21.319	ng		97
24) Nitrobenzene	7.463	77	164815	20.402	ng		97
25) Isophorone	7.698	82	289674	20.396	ng		99
26) 2-Nitrophenol	7.781	139	55948	18.629	ng		97
27) 2,4-Dimethylphenol	7.810	122	129731	20.437	ng		99
28) bis(2-Chloroethoxy)met...	7.910	93	191947	20.802	ng		100
29) 2,4-Dichlorophenol	8.016	162	128651	20.597	ng		98
30) 1,2,4-Trichlorobenzene	8.110	180	135810	20.952	ng		99
31) Naphthalene	8.187	128	455060	21.308	ng		100
32) Benzoic acid	7.875	122	40592	13.254	ng		97
33) 4-Chloroaniline	8.234	127	157439	20.978	ng		99
34) Hexachlorobutadiene	8.310	225	99520	20.595	ng		99
35) Caprolactam	8.575	113	30948	19.385	ng		95
36) 4-Chloro-3-methylphenol	8.704	107	121067	20.667	ng		97
37) 2-Methylnaphthalene	8.881	142	286790	21.060	ng		98
38) 1-Methylnaphthalene	8.981	142	272276	20.889	ng		99
40) 1,2,4,5-Tetrachloroben...	9.045	216	135689	21.074	ng		99
41) Hexachlorocyclopentadiene	9.034	237	79092	19.382	ng		99
43) 2,4,6-Trichlorophenol	9.151	196	82341	20.423	ng		98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143794.D
Acq On : 23 Sep 2025 12:27
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Quant Time: Sep 23 17:06:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.187	196	89458	21.213	ng		97
46) 1,1'-Biphenyl	9.345	154	333743	21.610	ng		98
47) 2-Chloronaphthalene	9.369	162	265169	21.330	ng		99
48) 2-Nitroaniline	9.457	65	75737	20.157	ng		95
49) Acenaphthylene	9.781	152	362739	21.195	ng		99
50) Dimethylphthalate	9.634	163	267211	20.548	ng		99
51) 2,6-Dinitrotoluene	9.698	165	42291	19.794	ng		93
52) Acenaphthene	9.957	154	239533	21.268	ng		99
53) 3-Nitroaniline	9.869	138	52183	20.150	ng		96
54) 2,4-Dinitrophenol	9.969	184	8519	16.759	ng	#	1
55) Dibenzofuran	10.128	168	339308	21.305	ng		99
56) 4-Nitrophenol	10.016	139	36150	17.322	ng		98
57) 2,4-Dinitrotoluene	10.098	165	54137	18.952	ng		93
58) Fluorene	10.469	166	253897	21.445	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	74485	20.618	ng	#	98
60) Diethylphthalate	10.339	149	250459	20.575	ng		99
61) 4-Chlorophenyl-phenyle...	10.463	204	128143	21.242	ng		99
62) 4-Nitroaniline	10.475	138	48558	19.941	ng		98
63) Azobenzene	10.622	77	265823	20.720	ng		98
65) 4,6-Dinitro-2-methylph...	10.504	198	15499	17.632	ng		94
66) n-Nitrosodiphenylamine	10.581	169	228456	20.930	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	115749	20.464	ng		99
68) Hexachlorobenzene	11.022	284	162113	20.797	ng		98
69) Atrazine	11.104	200	65580	20.747	ng		98
70) Pentachlorophenol	11.210	266	71585	18.449	ng		99
71) Phenanthrene	11.433	178	355364	20.854	ng		100
72) Anthracene	11.486	178	361245	21.135	ng		99
73) Carbazole	11.639	167	314908	21.072	ng		99
74) Di-n-butylphthalate	11.975	149	356883	20.764	ng		99
75) Fluoranthene	12.627	202	364772	21.284	ng		99
77) Benzidine	12.745	184	174994	18.220	ng		100
78) Pyrene	12.857	202	390517	20.153	ng		99
80) Butylbenzylphthalate	13.474	149	131846	19.666	ng		99
81) Benzo(a)anthracene	14.045	228	426715	20.153	ng		99
82) 3,3'-Dichlorobenzidine	14.010	252	183227	19.974	ng		100
83) Chrysene	14.080	228	392431	20.482	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	202632	20.620	ng		99
85) Di-n-octyl phthalate	14.651	149	345757	19.397	ng		100
87) Indeno(1,2,3-cd)pyrene	17.021	276	862284	20.824	ng		100
88) Benzo(b)fluoranthene	15.098	252	561825	20.215	ng		99
89) Benzo(k)fluoranthene	15.127	252	589201	21.102	ng		99
90) Benzo(a)pyrene	15.468	252	539579	20.654	ng		100
91) Dibenzo(a,h)anthracene	17.045	278	710542	20.980	ng		99
92) Benzo(g,h,i)perylene	17.474	276	673228	20.621	ng		99

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

ICAL Form

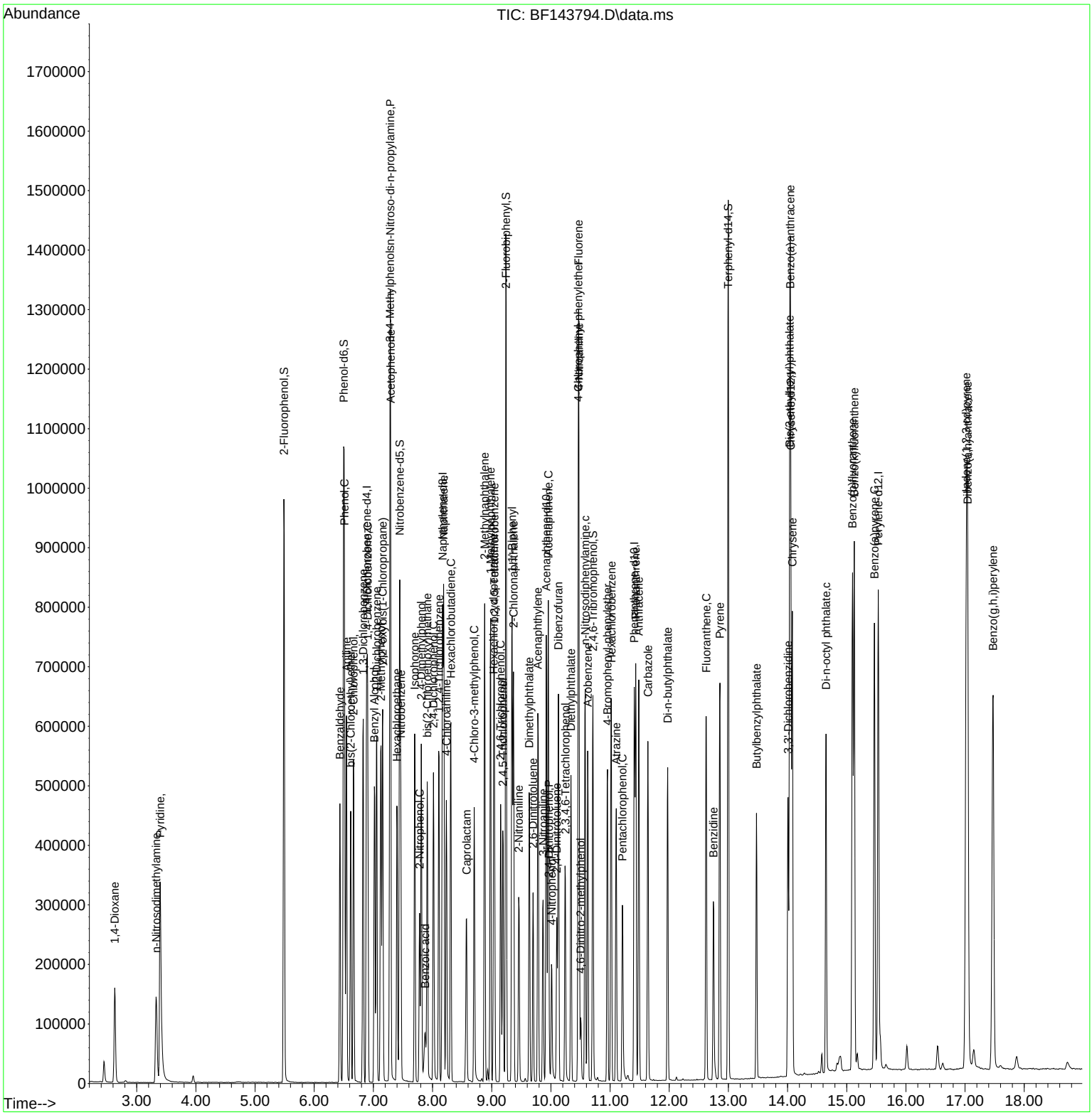
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143794.D
Acq On : 23 Sep 2025 12:27
Operator : RC/JU
Sample : SSTDICC020
Misc :
ALS Vial : 5 Sample Multiplier: 1

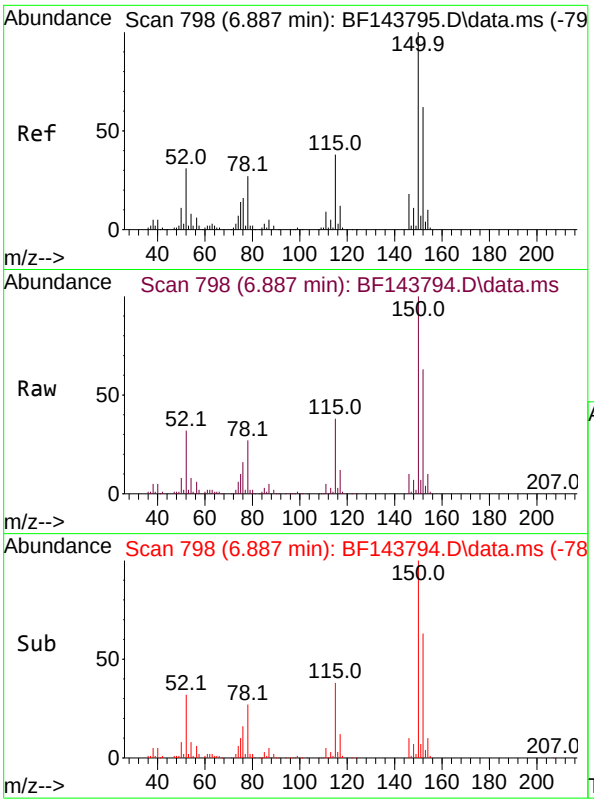
Quant Time: Sep 23 17:06:28 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

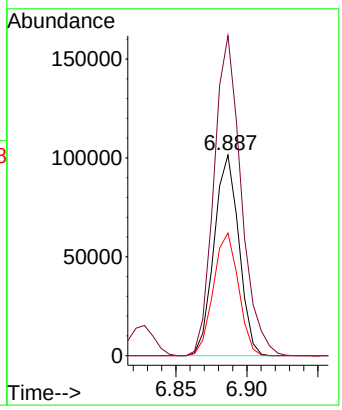




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 79
Delta R.T. -0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:152 Resp: 12356

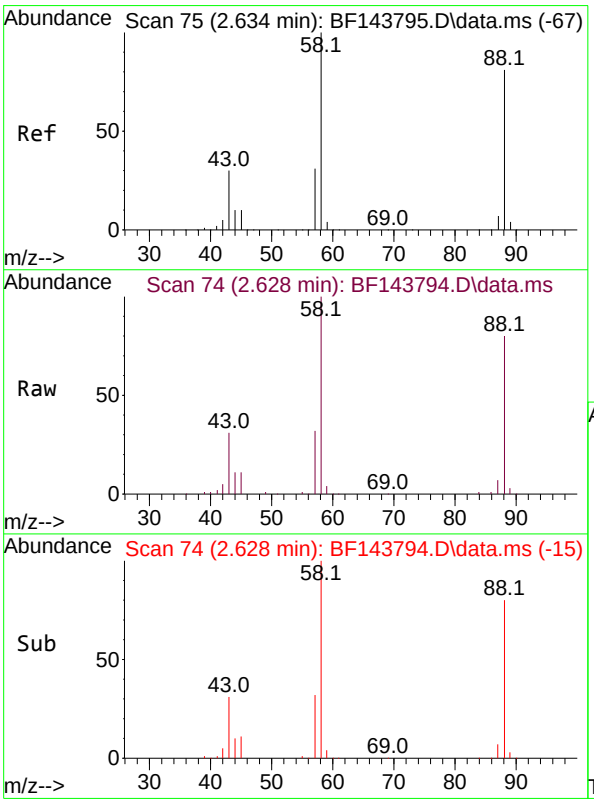
Ion	Ratio	Lower	Upper
152	100		
150	159.6	129.6	194.4
115	61.2	49.0	73.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

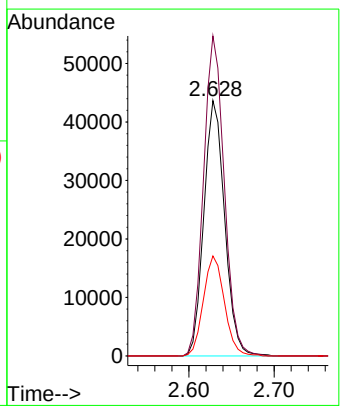
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

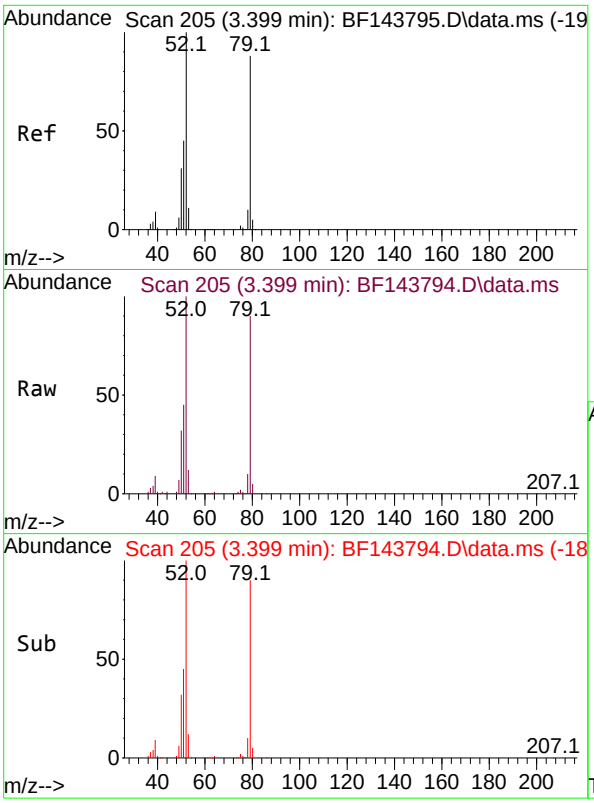


#2
1,4-Dioxane
Concen: 20.313 ng
RT: 2.628 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 88 Resp: 73941

Ion	Ratio	Lower	Upper
88	100		
58	124.8	99.4	149.2
43	39.5	30.6	45.8

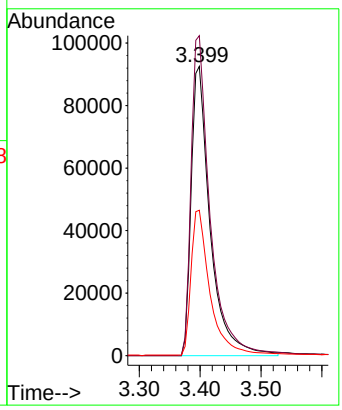




#3
Pyridine
Concen: 20.416 ng
RT: 3.399 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 79 Resp: 20060

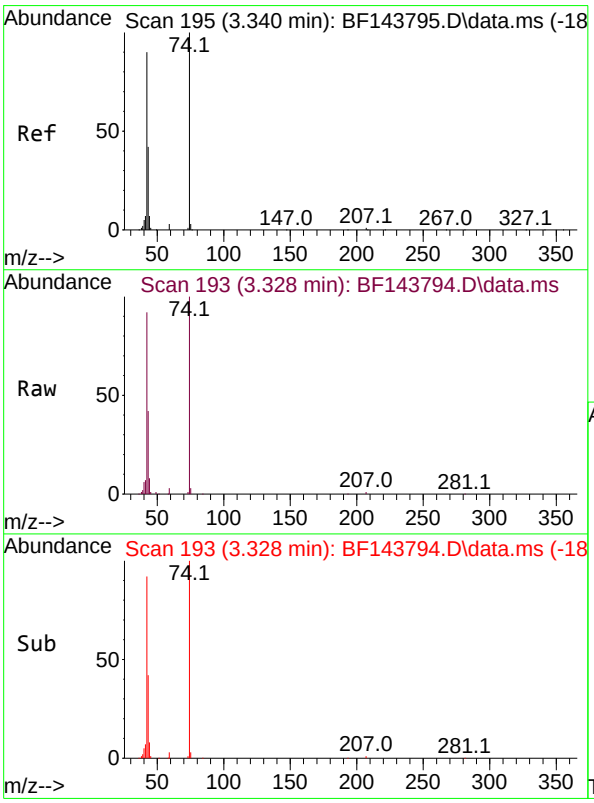
Ion	Ratio	Lower	Upper
79	100		
52	110.6	90.5	135.7
51	50.3	40.6	61.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

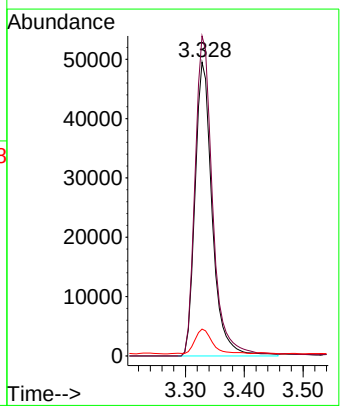
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

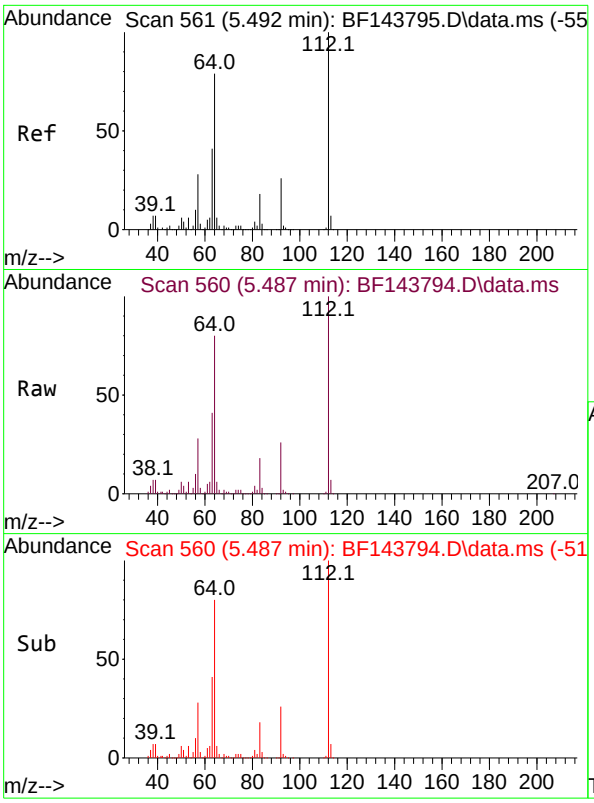


#4
n-Nitrosodimethylamine
Concen: 20.357 ng
RT: 3.328 min Scan# 193
Delta R.T. -0.029 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 42 Resp: 100296

Ion	Ratio	Lower	Upper
42	100		
74	108.9	89.1	133.7
44	9.1	6.4	9.6

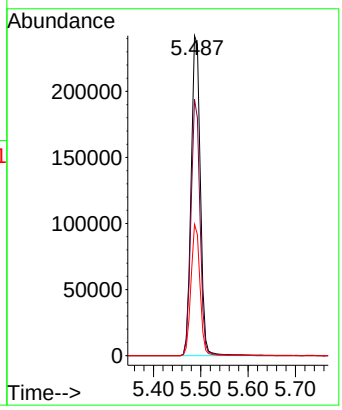




#5
2-Fluorophenol
Concen: 42.681 ng
RT: 5.487 min Scan# 5
Delta R.T. -0.012 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:112 Resp: 32768

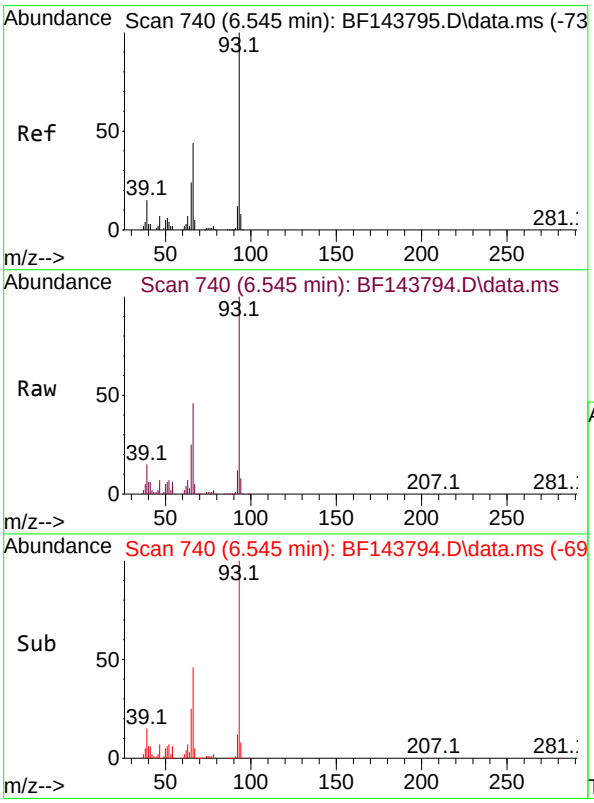
Ion	Ratio	Lower	Upper
112	100		
64	80.1	63.0	94.4
63	41.0	32.6	49.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

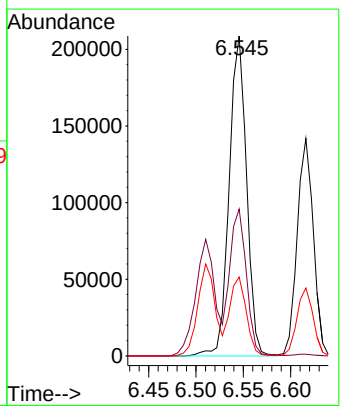
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

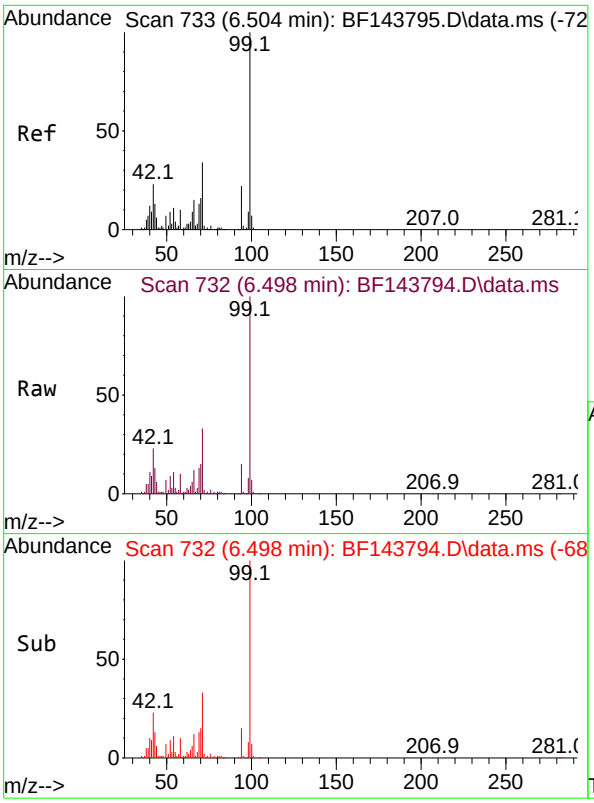


#6
Aniline
Concen: 20.904 ng
RT: 6.545 min Scan# 740
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 93 Resp: 266602

Ion	Ratio	Lower	Upper
93	100		
66	45.9	37.1	55.7
65	24.6	19.4	29.0

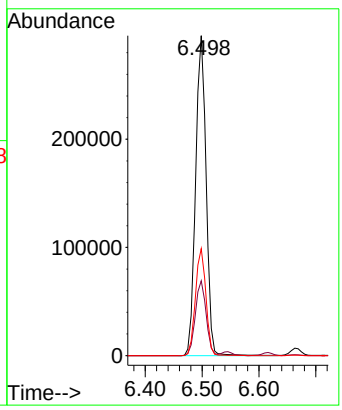




#7
Phenol-d6
Concen: 41.720 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 99 Resp: 37798

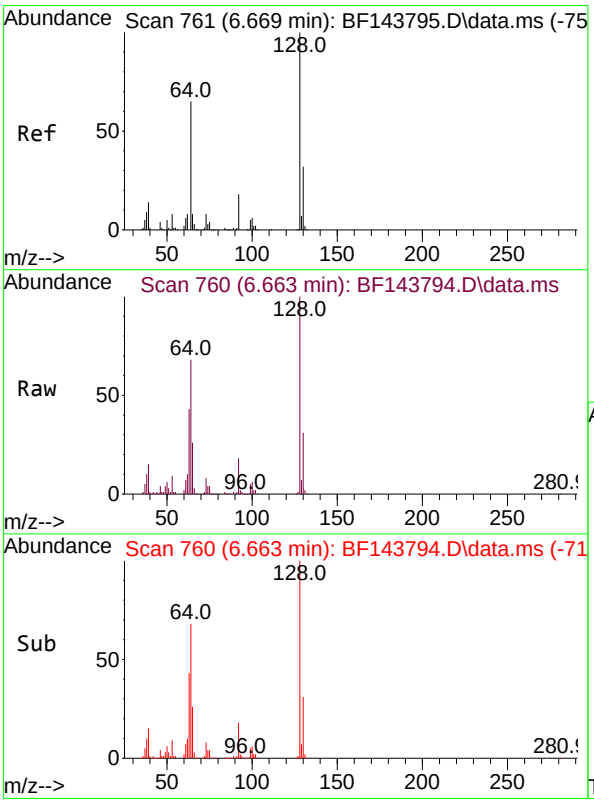
Ion	Ratio	Lower	Upper
99	100		
42	23.4	18.6	28.0
71	33.4	27.0	40.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

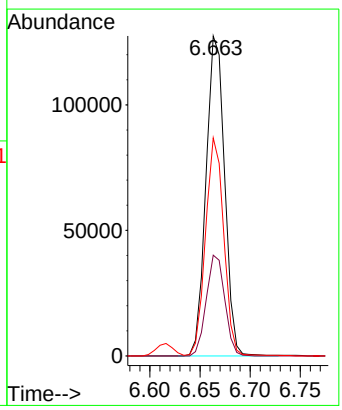
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

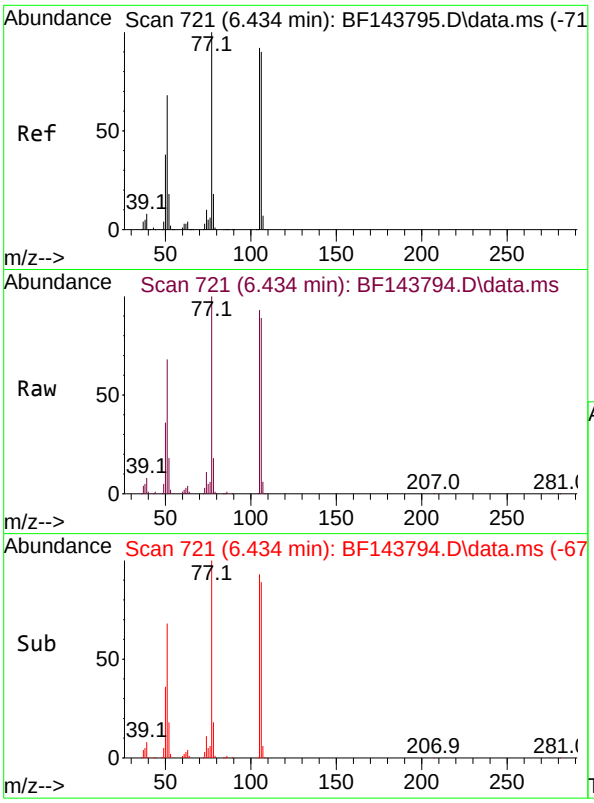


#8
2-Chlorophenol
Concen: 21.090 ng
RT: 6.663 min Scan# 760
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:128 Resp: 164198

Ion	Ratio	Lower	Upper
128	100		
130	31.5	12.2	52.2
64	68.1	46.5	86.5

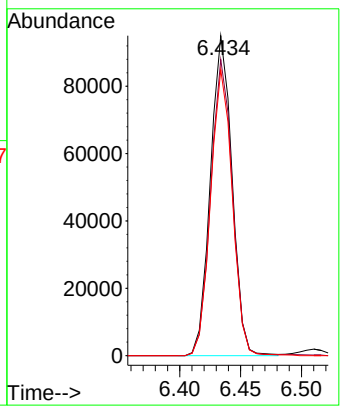




#9
Benzaldehyde
Concen: 15.290 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 77 Resp: 11765

Ion	Ratio	Lower	Upper
77	100		
105	92.5	71.8	111.8
106	89.3	69.8	109.8



Instrument :
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ClientSampleId :
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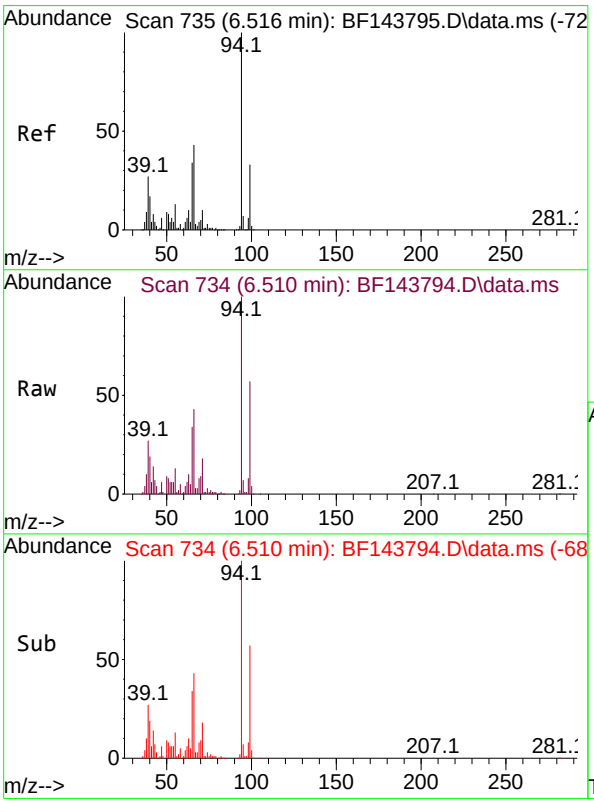
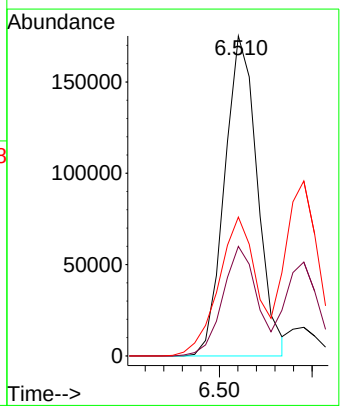
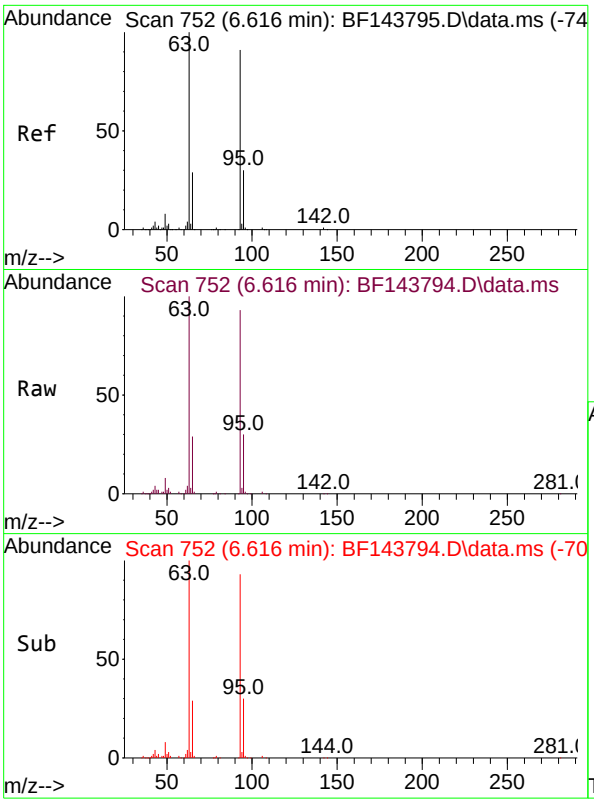


#10
Phenol
Concen: 21.008 ng m
RT: 6.510 min Scan# 734
Delta R.T. -0.018 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 94 Resp: 214576

Ion	Ratio	Lower	Upper
94	100		
65	34.2	14.2	54.2
66	43.4	24.1	64.1

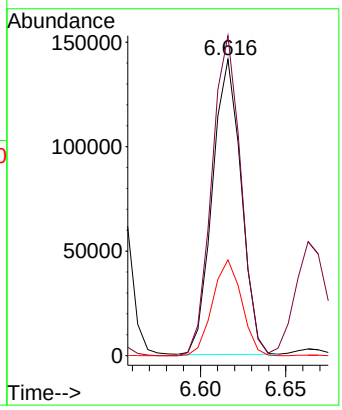




#11
bis(2-Chloroethyl)ether
Concen: 20.783 ng
RT: 6.616 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 93 Resp: 16639

Ion	Ratio	Lower	Upper
93	100		
63	108.0	89.2	129.2
95	32.3	12.9	52.9



Instrument :
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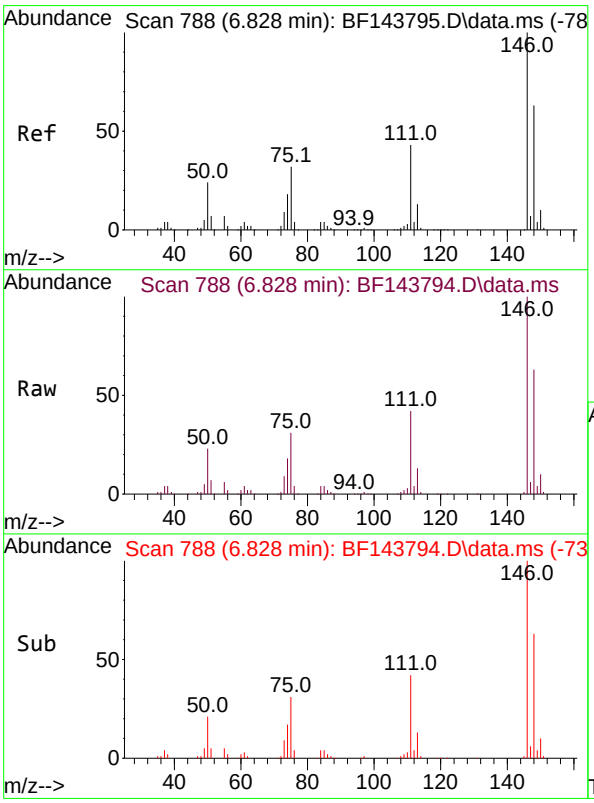
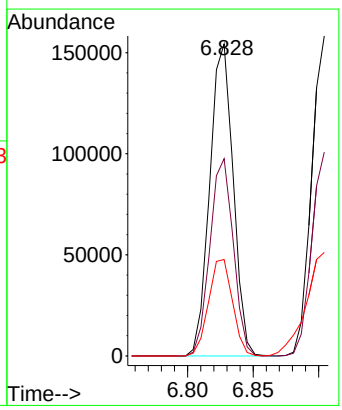
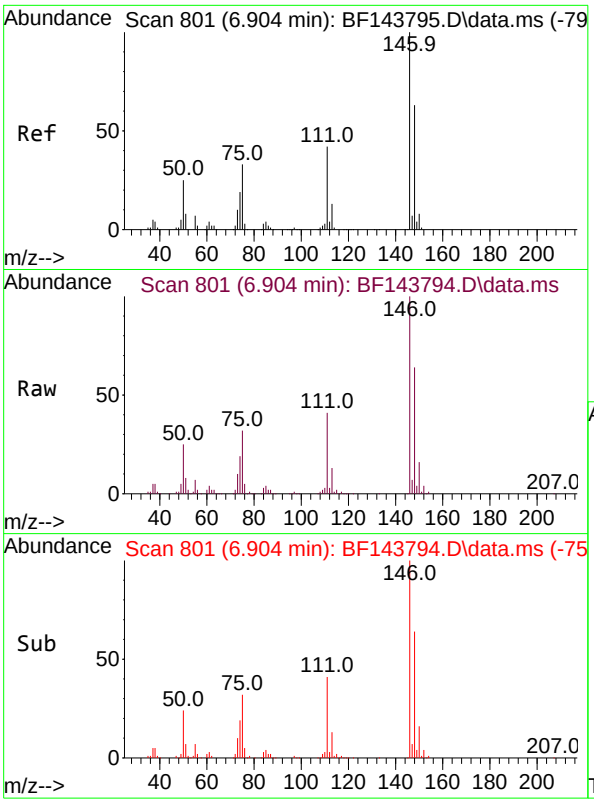


#12
1,3-Dichlorobenzene
Concen: 21.268 ng
RT: 6.828 min Scan# 788
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:146 Resp: 192258

Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.4	75.6
75	30.9	25.6	38.4

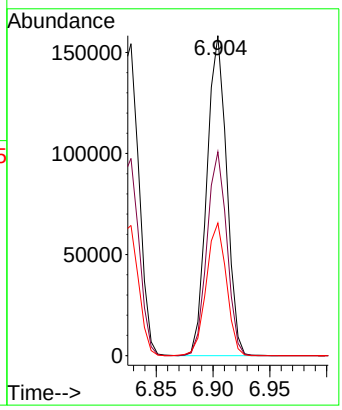




#13
1,4-Dichlorobenzene
Concen: 21.223 ng
RT: 6.904 min Scan# 80
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:146 Resp: 19145

Ion	Ratio	Lower	Upper
146	100		
148	63.7	50.7	76.1
111	41.4	33.4	50.2



Instrument :
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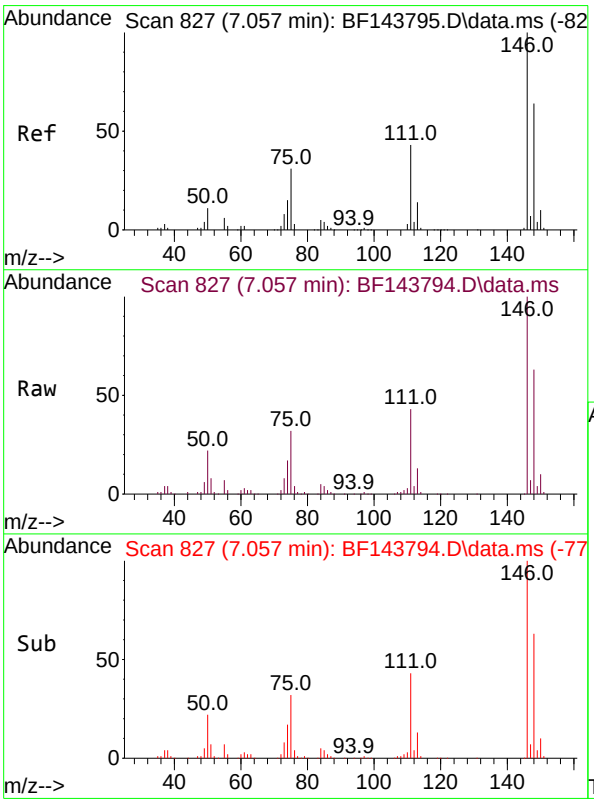
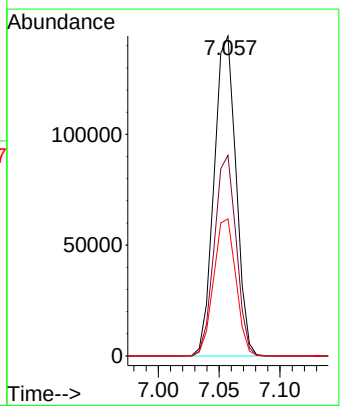
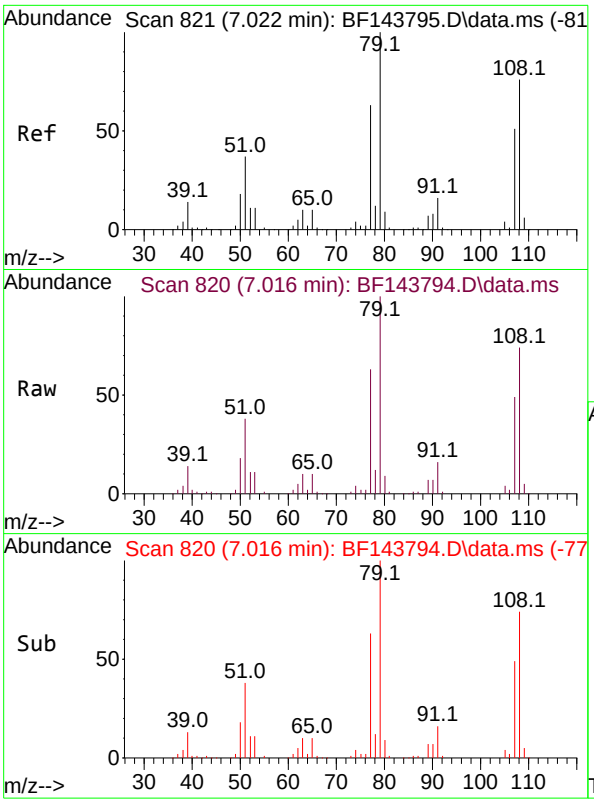


#14
1,2-Dichlorobenzene
Concen: 21.185 ng
RT: 7.057 min Scan# 827
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:146 Resp: 181008

Ion	Ratio	Lower	Upper
146	100		
148	62.7	51.1	76.7
111	42.9	34.3	51.5





#15
Benzyl Alcohol
Concen: 20.902 ng
RT: 7.016 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 79 Resp: 13271

Ion	Ratio	Lower	Upper
79	100		
108	74.3	60.5	90.7
77	63.1	50.3	75.5

Instrument :
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ClientSampleId :
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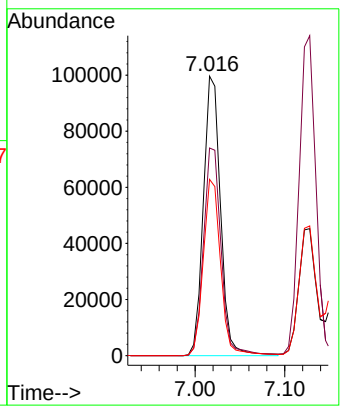
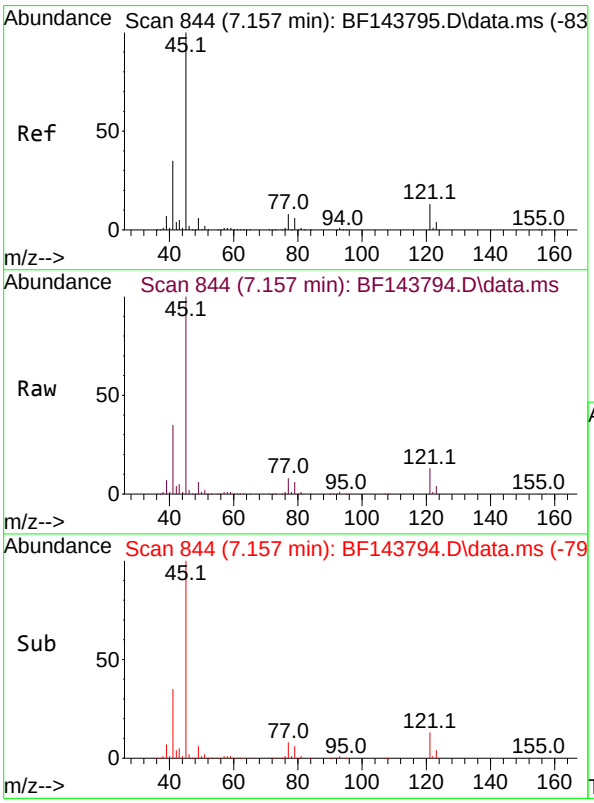
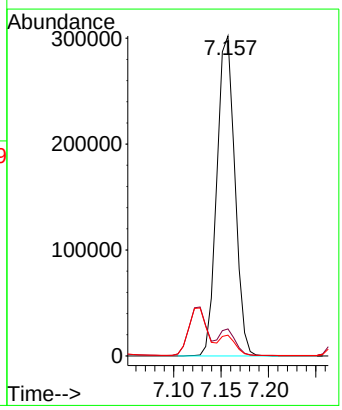


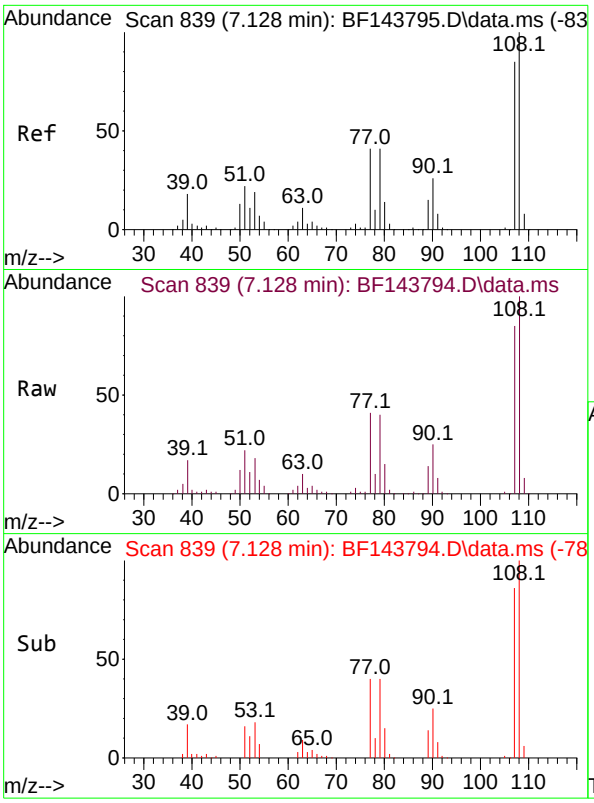


#16
2,2'-oxybis(1-Chloropropane)
Concen: 20.985 ng
RT: 7.157 min Scan# 844
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 45 Resp: 398403

Ion	Ratio	Lower	Upper
45	100		
77	8.4	0.0	28.5
79	6.5	0.0	26.3

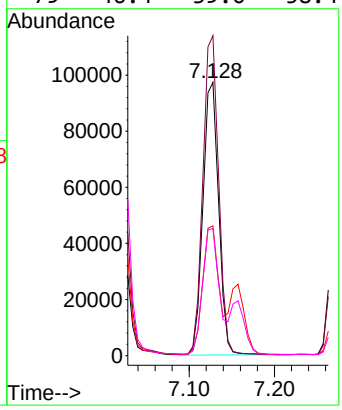




#17
2-Methylphenol
Concen: 20.674 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:107 Resp: 12461

Ion	Ratio	Lower	Upper
107	100		
108	117.1	94.2	141.4
77	47.4	38.6	58.0
79	46.4	39.0	58.4



Instrument :
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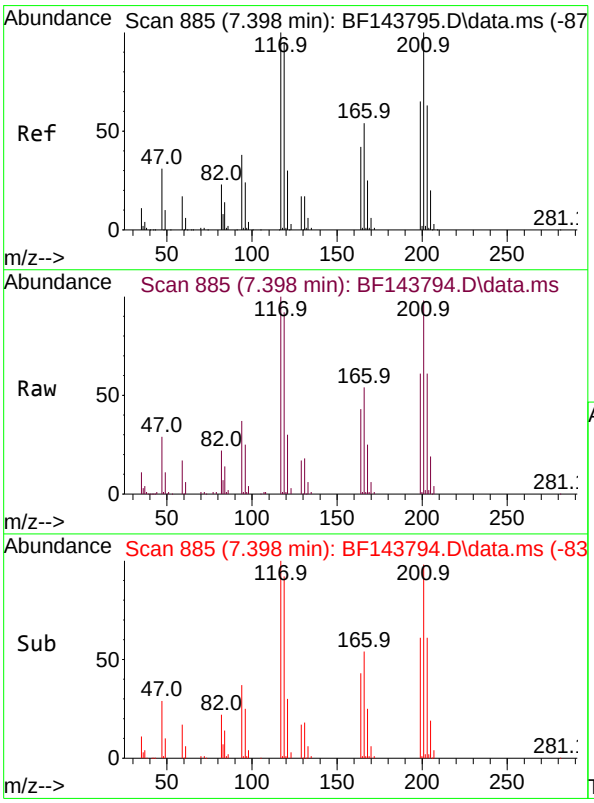
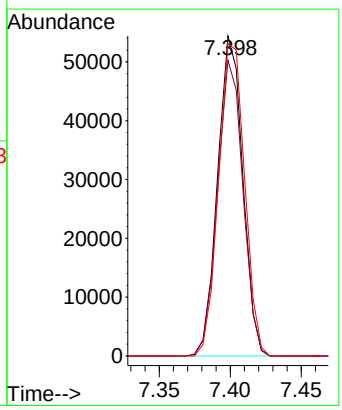
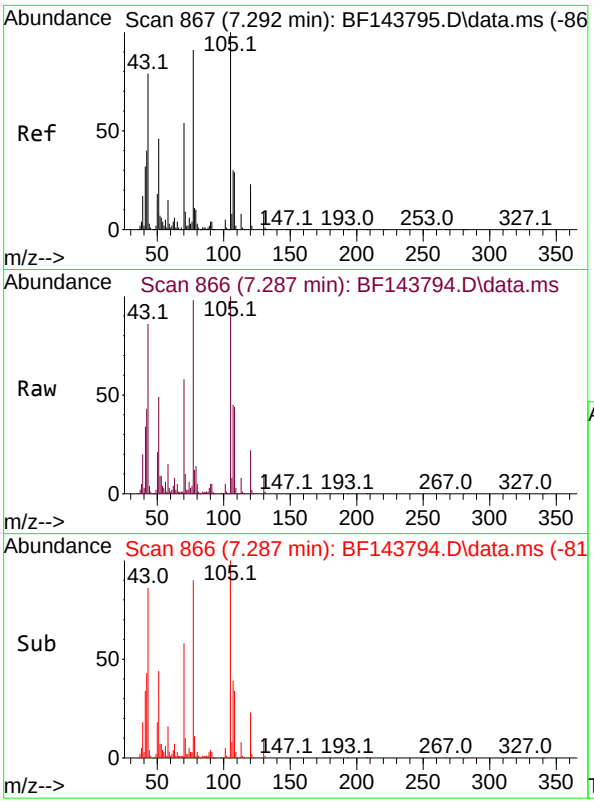


#18
Hexachloroethane
Concen: 21.134 ng
RT: 7.398 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:117 Resp: 67048

Ion	Ratio	Lower	Upper
117	100		
119	92.4	76.2	114.2
201	97.6	79.7	119.5

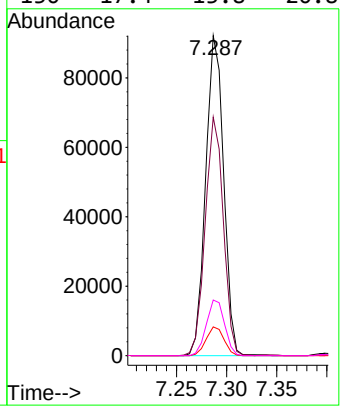




#19
n-Nitroso-di-n-propylamine
Concen: 20.254 ng
RT: 7.287 min Scan# 8
Delta R.T. -0.018 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 70 Resp: 11444

Ion	Ratio	Lower	Upper
70	100		
42	74.5	59.4	89.0
101	9.0	7.1	10.7
130	17.4	13.8	20.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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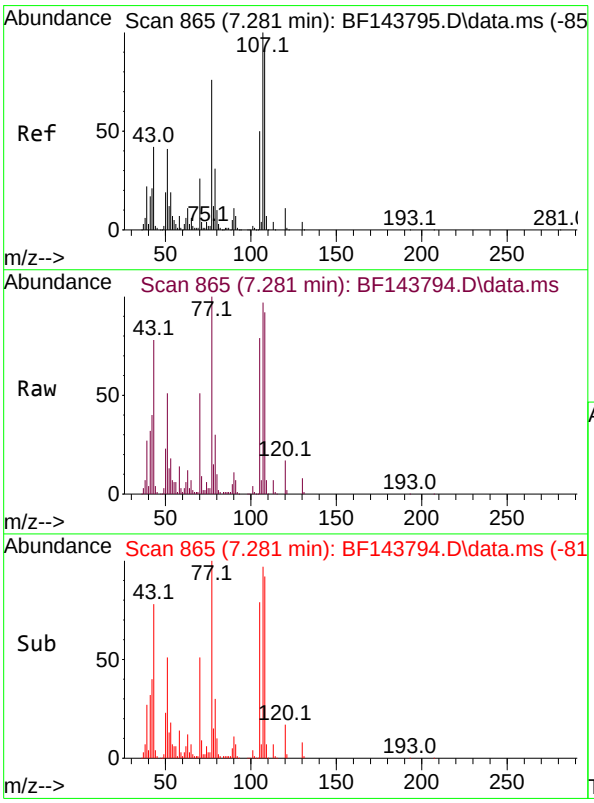
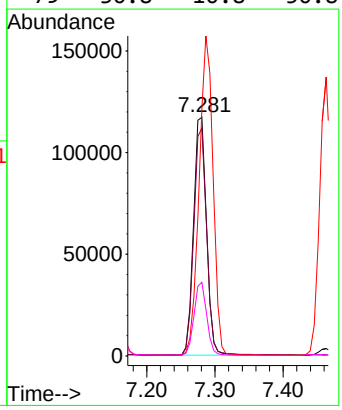
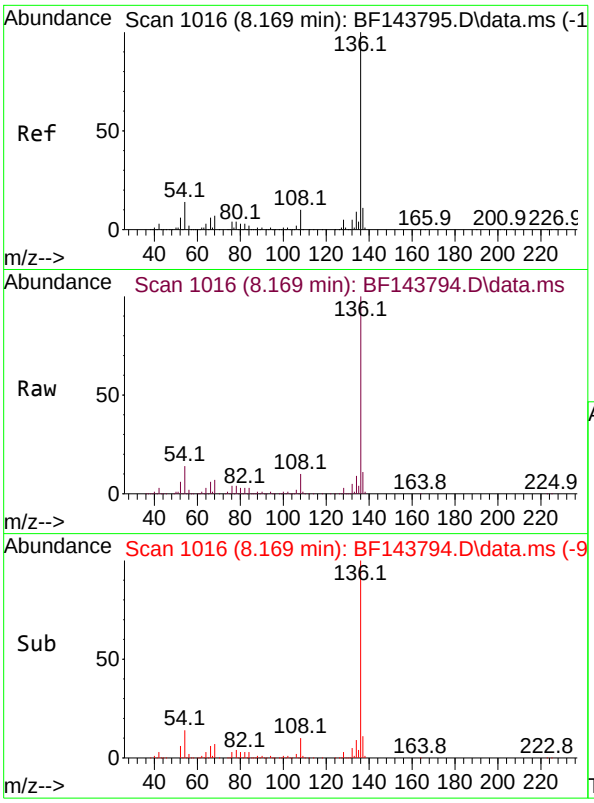


#20
3+4-Methylphenols
Concen: 21.145 ng
RT: 7.281 min Scan# 865
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:107 Resp: 155211

Ion	Ratio	Lower	Upper
107	100		
108	95.5	72.5	112.5
77	103.4	56.2	96.2#
79	30.8	10.8	50.8

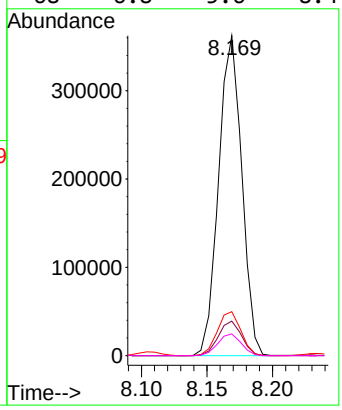




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:136 Resp: 44612

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	13.7	11.2	16.8
68	6.8	5.6	8.4



Instrument :
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ClientSampleId :
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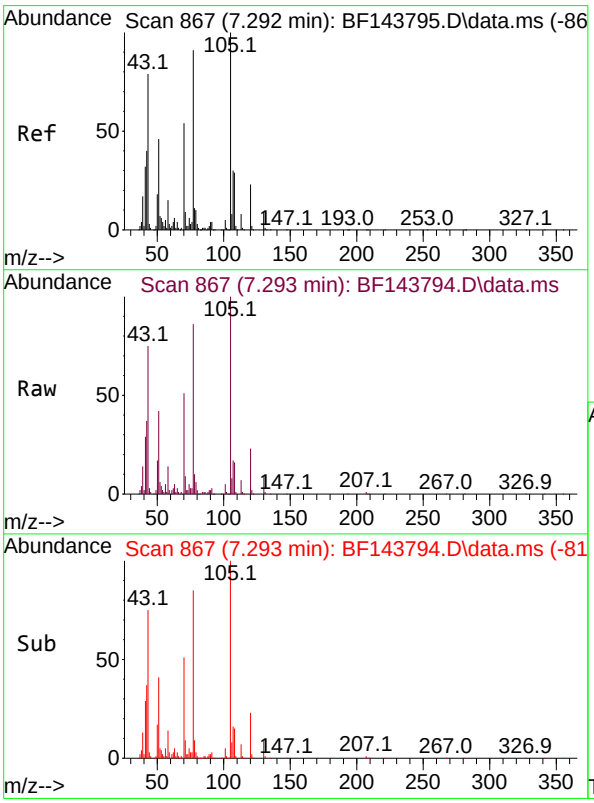
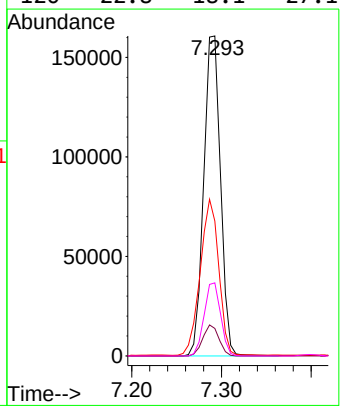
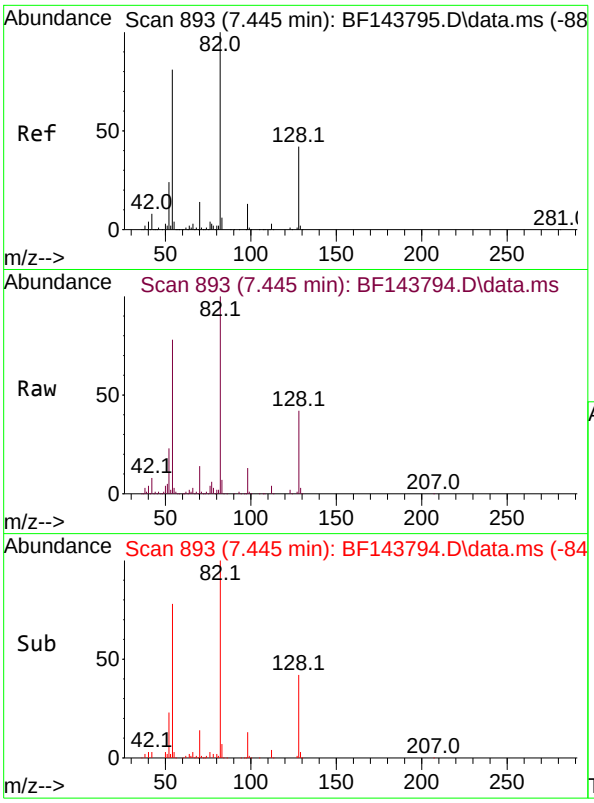


#22
Acetophenone
Concen: 21.319 ng
RT: 7.293 min Scan# 867
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:105 Resp: 208896

Ion	Ratio	Lower	Upper
105	100		
71	8.6	7.0	10.4
51	42.2	36.6	55.0
120	22.8	18.1	27.1

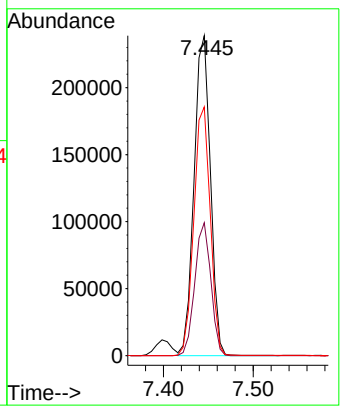




#23
Nitrobenzene-d5
Concen: 42.621 ng
RT: 7.445 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 82 Resp: 302138

Ion	Ratio	Lower	Upper
82	100		
128	41.5	33.3	49.9
54	77.7	64.2	96.4



Instrument :
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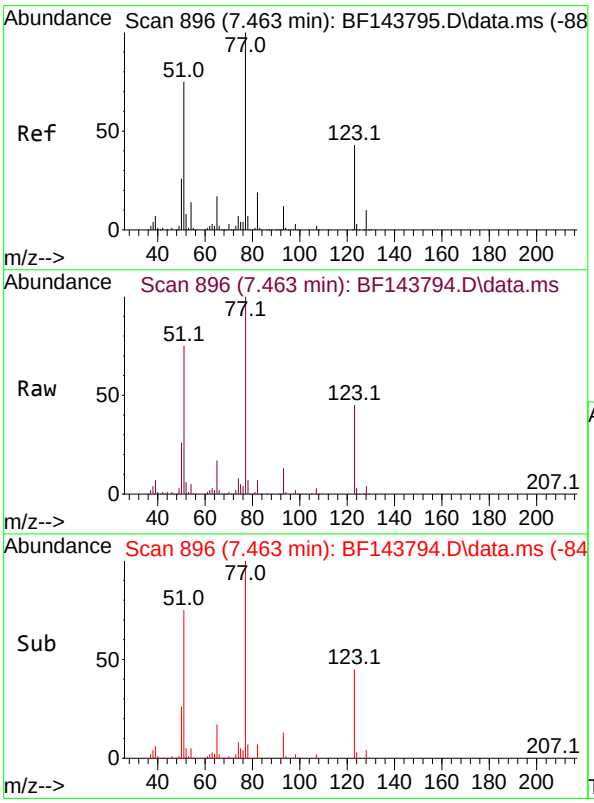
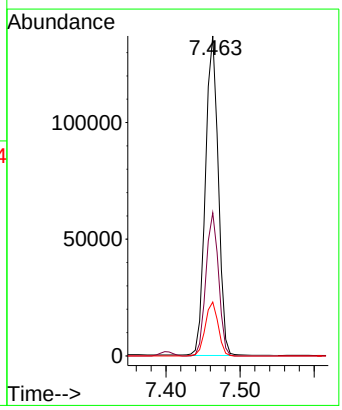
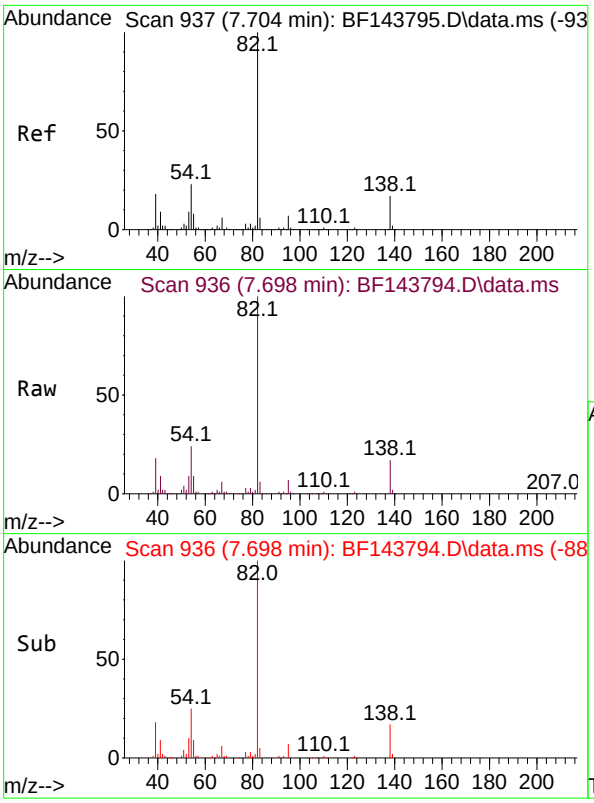


#24
Nitrobenzene
Concen: 20.402 ng
RT: 7.463 min Scan# 896
Delta R.T. -0.012 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 77 Resp: 164815

Ion	Ratio	Lower	Upper
77	100		
123	44.7	34.0	51.0
65	16.8	13.5	20.3

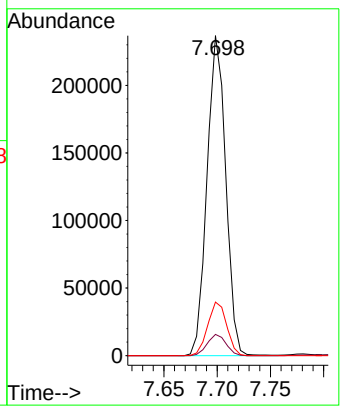




#25
Isophorone
Concen: 20.396 ng
RT: 7.698 min Scan# 9
Delta R.T. -0.012 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 82 Resp: 28967

Ion	Ratio	Lower	Upper
82	100		
95	6.6	5.4	8.2
138	16.7	13.7	20.5



Instrument :
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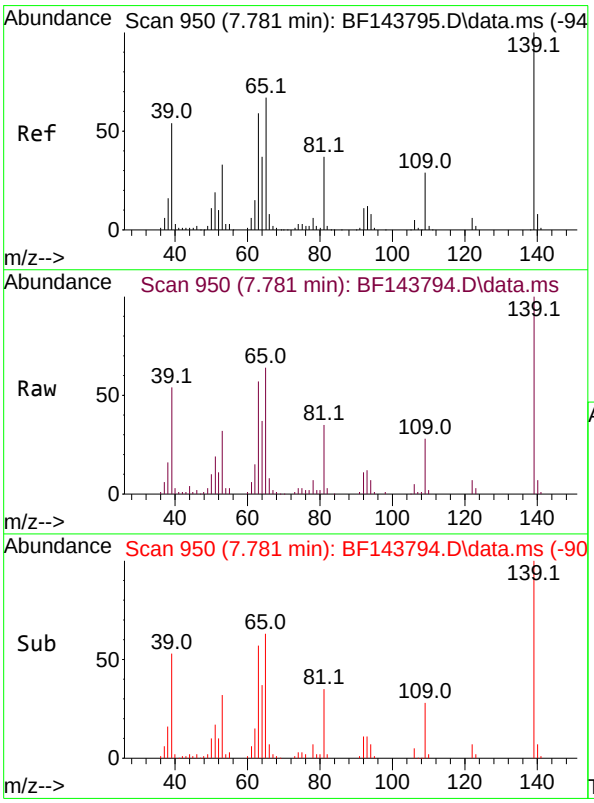
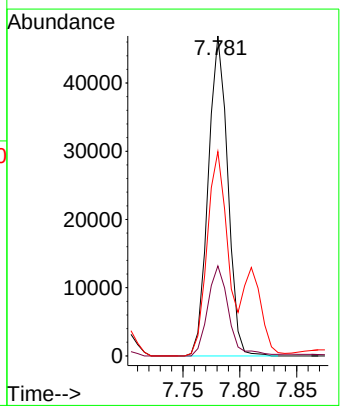
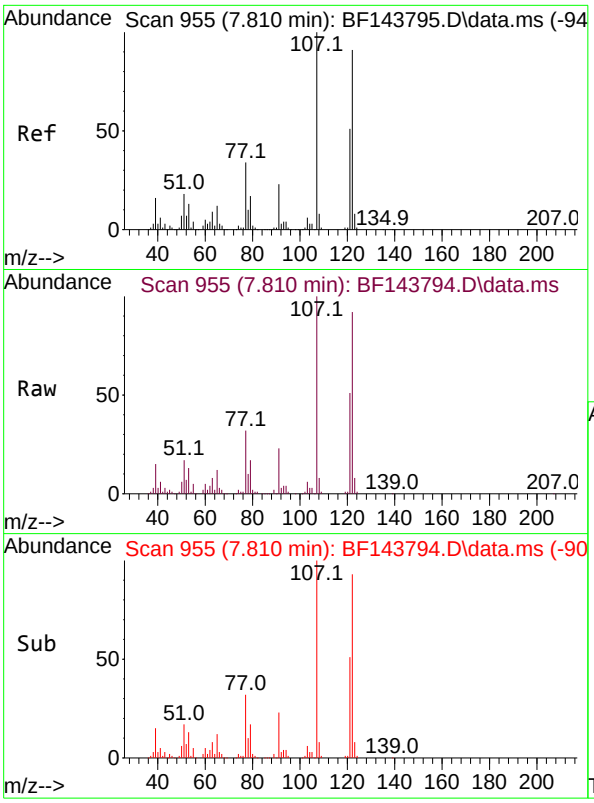


#26
2-Nitrophenol
Concen: 18.629 ng
RT: 7.781 min Scan# 950
Delta R.T. -0.005 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:139 Resp: 55948

Ion	Ratio	Lower	Upper
139	100		
109	28.1	23.3	34.9
65	63.8	53.8	80.6

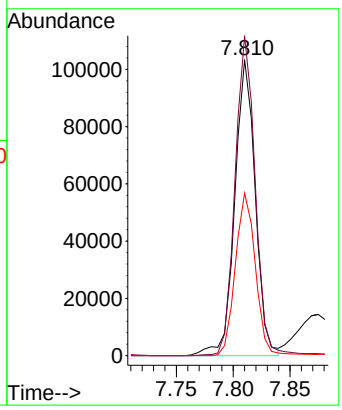




#27
2,4-Dimethylphenol
Concen: 20.437 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:122 Resp: 12973

Ion	Ratio	Lower	Upper
122	100		
107	108.1	87.5	131.3
121	54.9	44.2	66.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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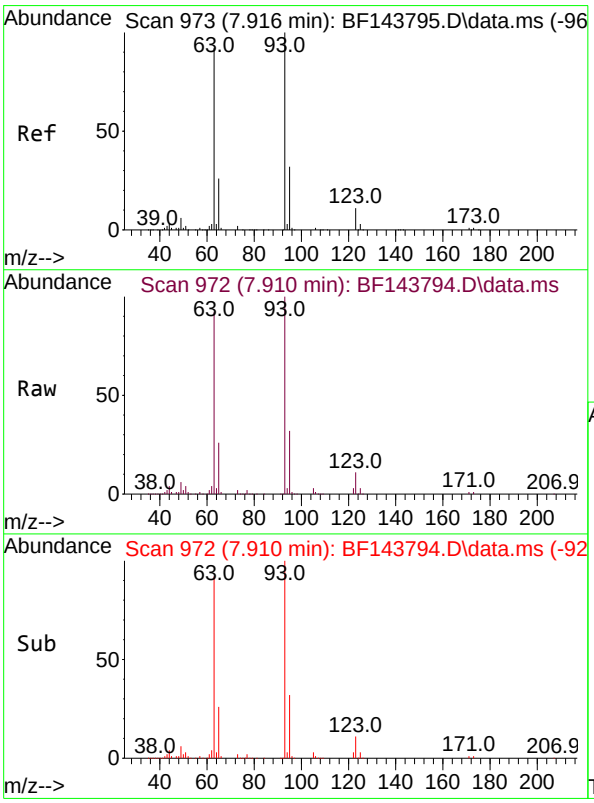
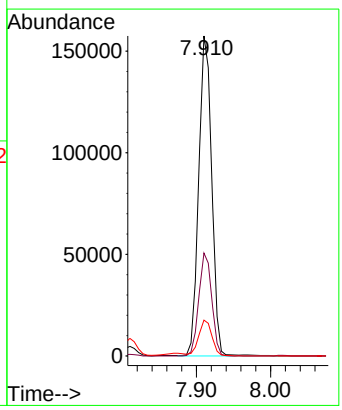
Supervised By :Jagrut Upadhyay 09/24/2025

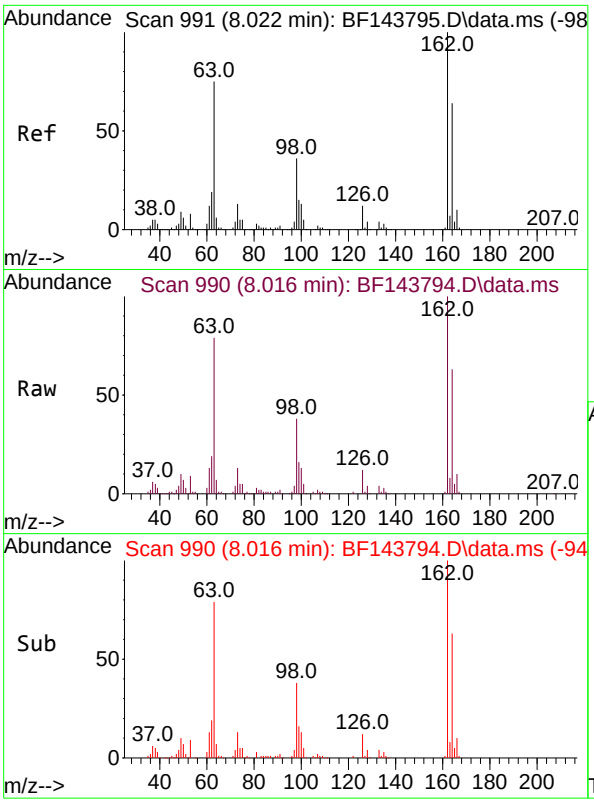


#28
bis(2-Chloroethoxy)methane
Concen: 20.802 ng
RT: 7.910 min Scan# 972
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 93 Resp: 191947

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.8	38.8
123	11.2	8.8	13.2





#29
2,4-Dichlorophenol
Concen: 20.597 ng
RT: 8.016 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:162 Resp: 12865

Ion	Ratio	Lower	Upper
162	100		
164	63.5	44.1	84.1
98	37.7	15.8	55.8

Instrument :
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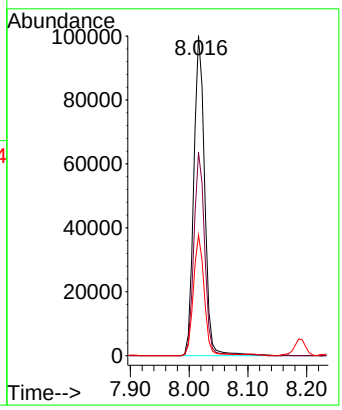
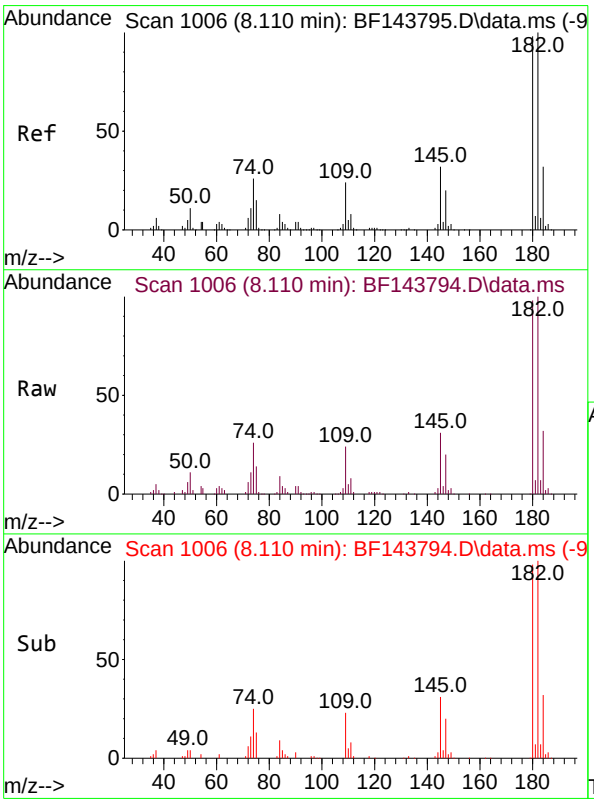
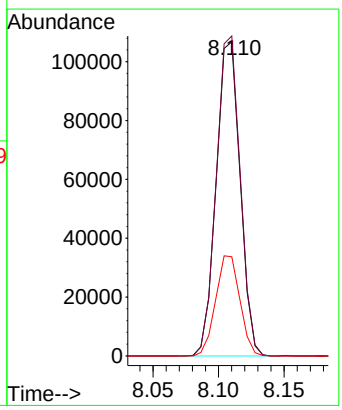


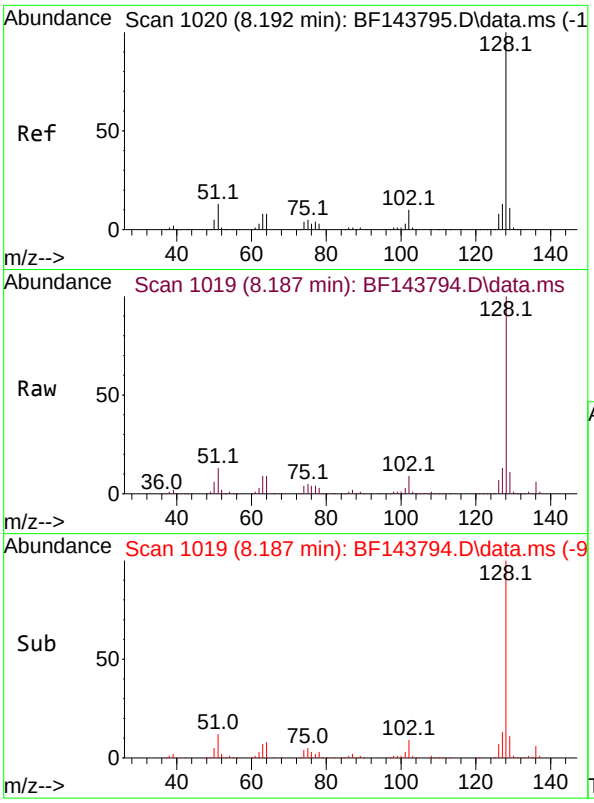


#30
1,2,4-Trichlorobenzene
Concen: 20.952 ng
RT: 8.110 min Scan# 1006
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:180 Resp: 135810

Ion	Ratio	Lower	Upper
180	100		
182	101.9	82.0	123.0
145	31.6	25.9	38.9

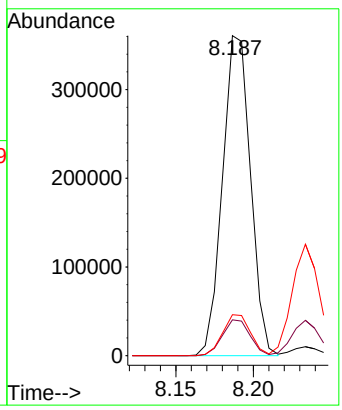




#31
Naphthalene
Concen: 21.308 ng
RT: 8.187 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:128 Resp: 45506

Ion	Ratio	Lower	Upper
128	100		
129	11.2	8.8	13.2
127	12.8	10.2	15.4



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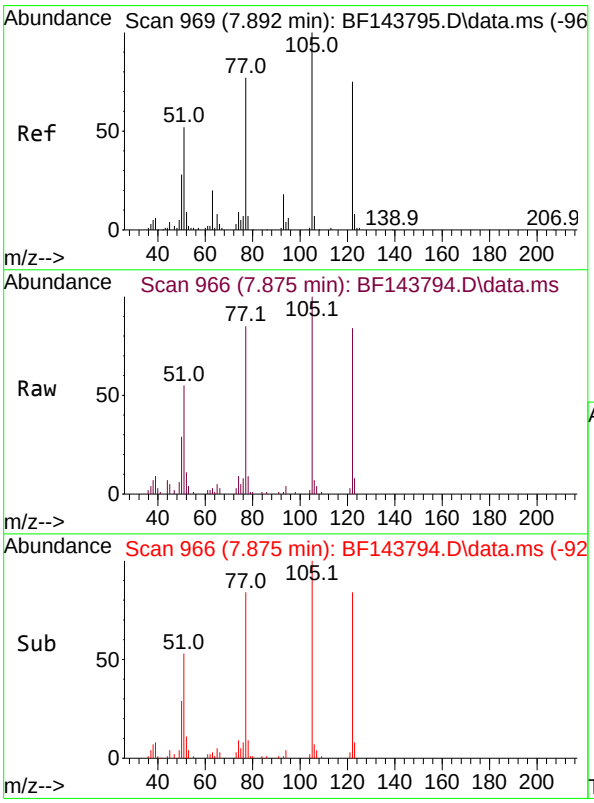
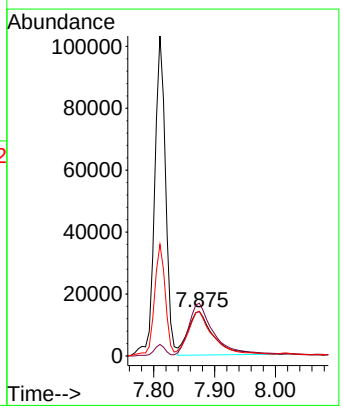
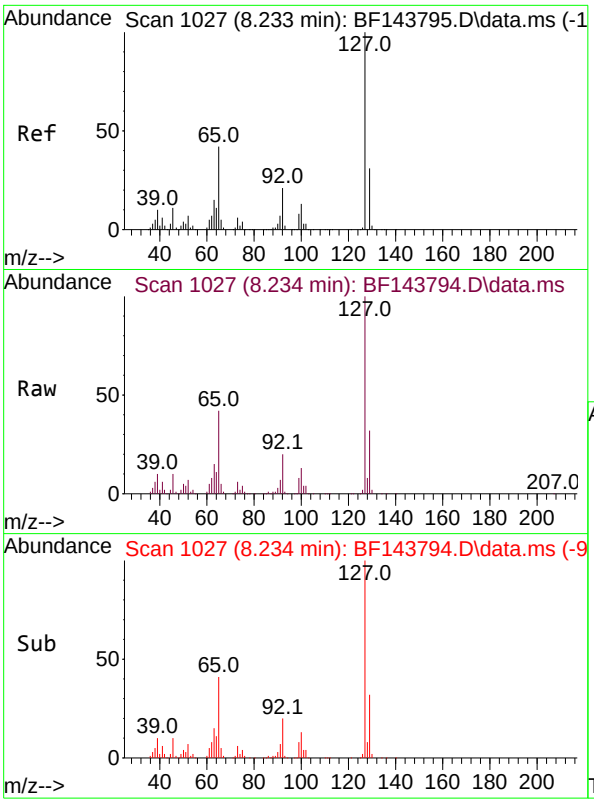


#32
Benzoic acid
Concen: 13.254 ng
RT: 7.875 min Scan# 966
Delta R.T. -0.047 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:122 Resp: 40592

Ion	Ratio	Lower	Upper
122	100		
105	118.4	103.7	143.7
77	100.2	78.8	118.8

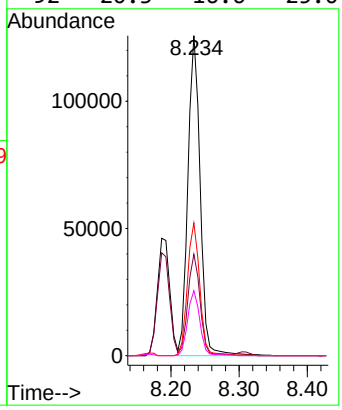




#33
4-Chloroaniline
Concen: 20.978 ng
RT: 8.234 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:127 Resp: 15743

Ion	Ratio	Lower	Upper
127	100		
129	31.7	25.4	38.2
65	41.5	33.4	50.2
92	20.3	16.6	25.0



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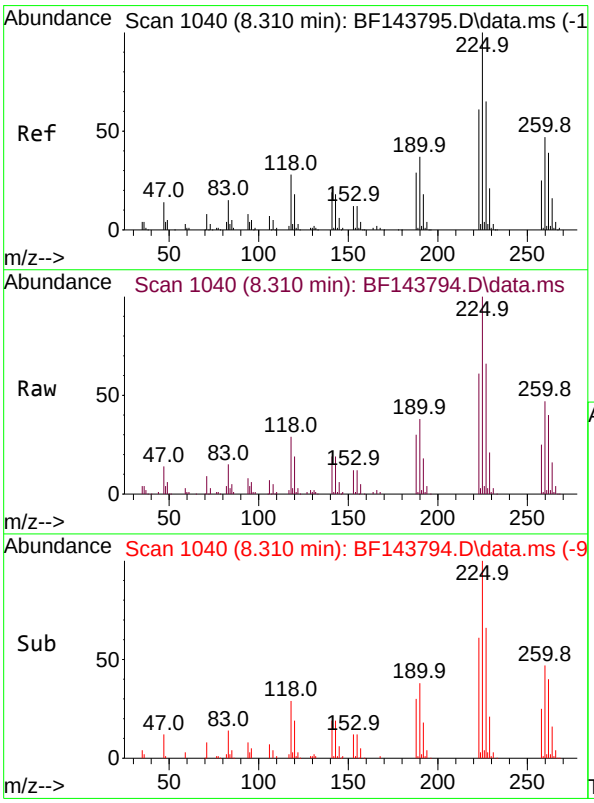
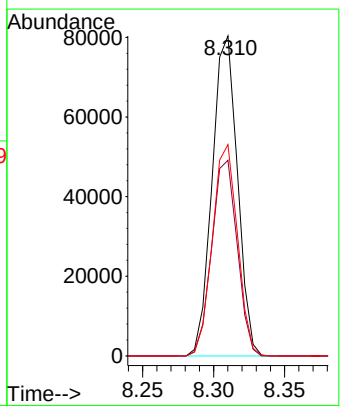
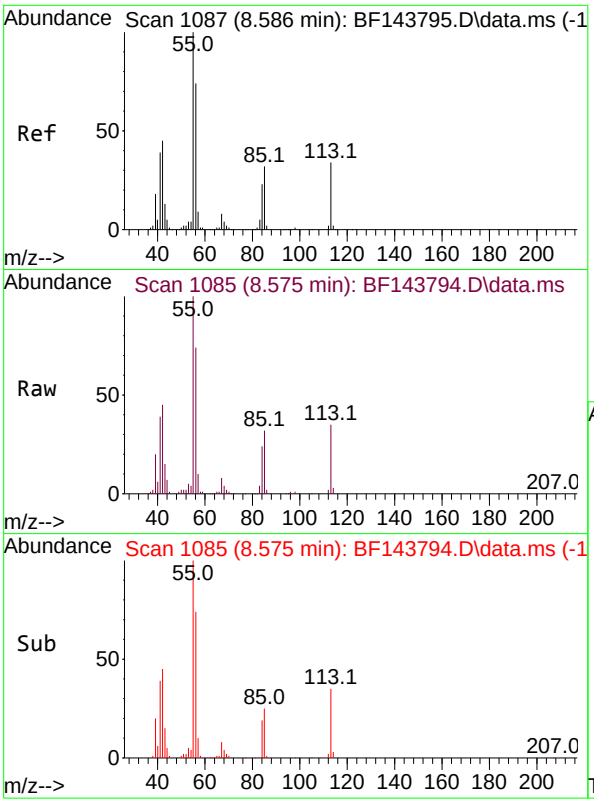


#34
Hexachlorobutadiene
Concen: 20.595 ng
RT: 8.310 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:225 Resp: 99520

Ion	Ratio	Lower	Upper
225	100		
223	61.1	48.6	72.8
227	66.0	51.9	77.9

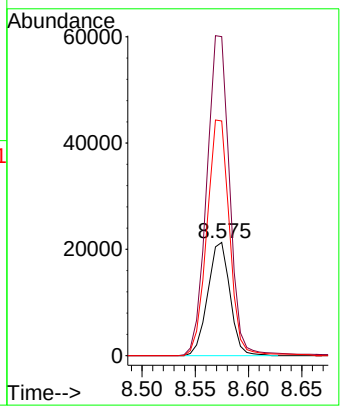




#35
Caprolactam
Concen: 19.385 ng
RT: 8.575 min Scan# 1
Delta R.T. -0.035 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:113 Resp: 3094

Ion	Ratio	Lower	Upper
113	100		
55	282.0	271.7	311.7
56	207.4	194.5	234.5



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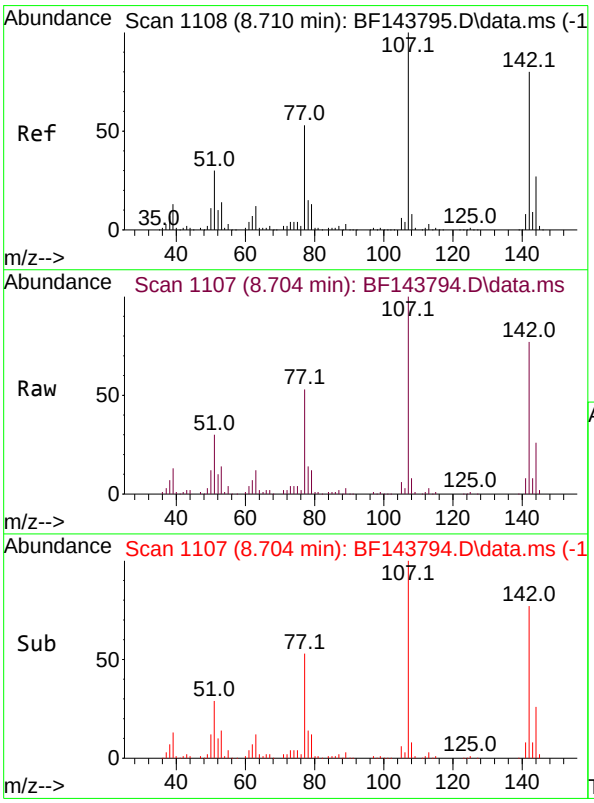
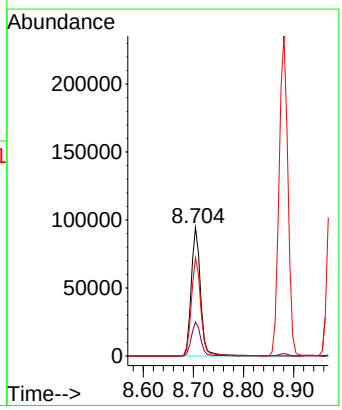
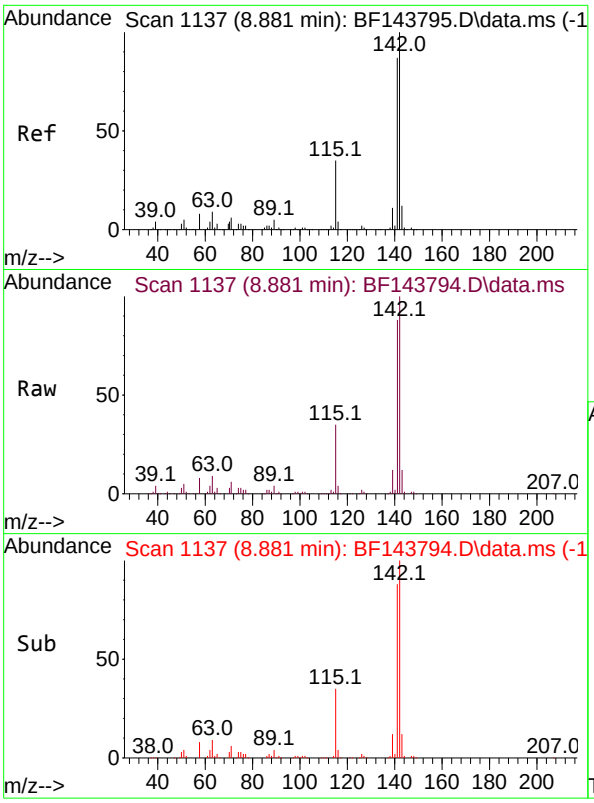


#36
4-Chloro-3-methylphenol
Concen: 20.667 ng
RT: 8.704 min Scan# 1107
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:107 Resp: 121067

Ion	Ratio	Lower	Upper
107	100		
144	26.5	21.8	32.8
142	76.6	63.6	95.4





#37
2-Methylnaphthalene
Concen: 21.060 ng
RT: 8.881 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:142 Resp: 28679

Ion	Ratio	Lower	Upper
142	100		
141	88.4	69.4	104.0

Instrument :
BNA_F
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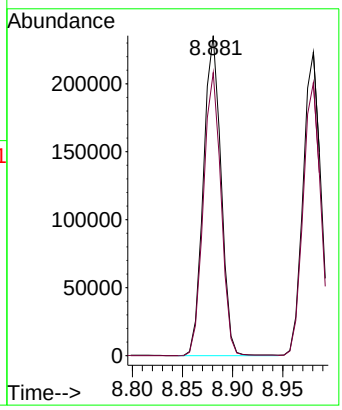
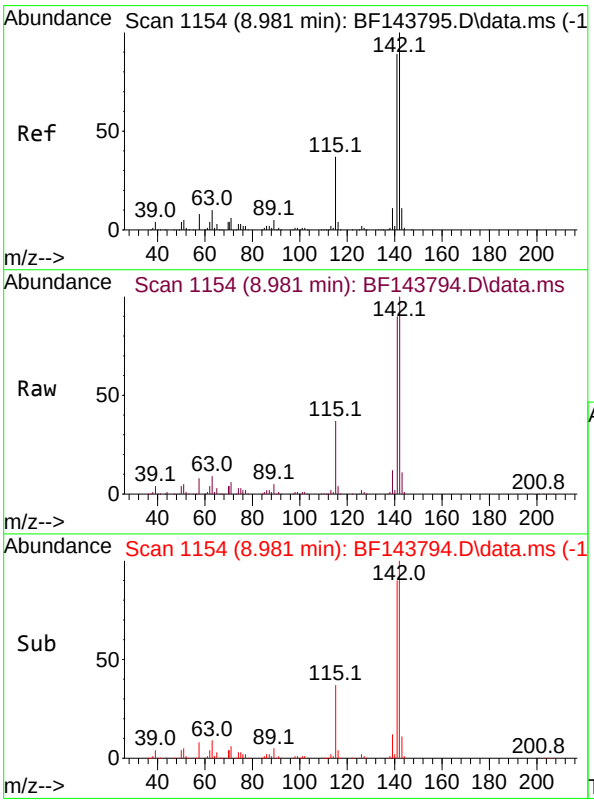
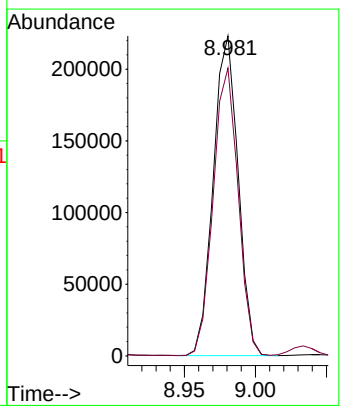


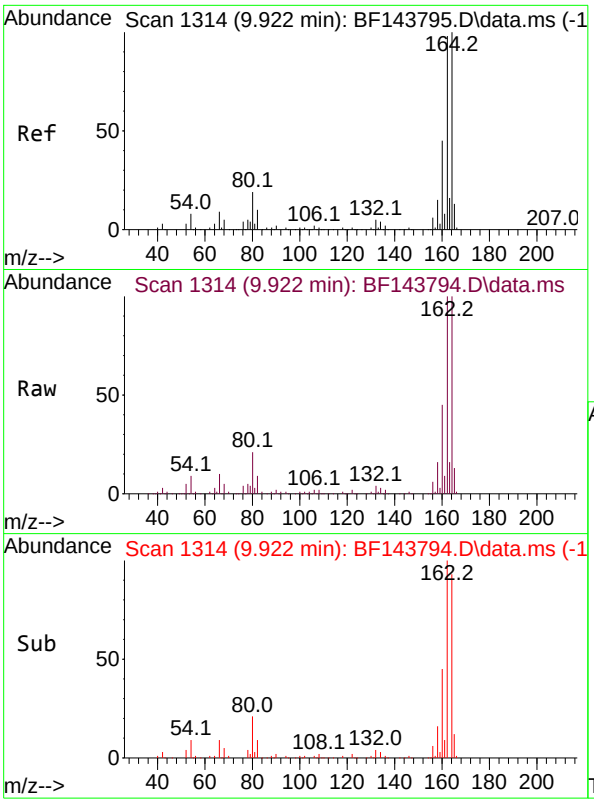


#38
1-Methylnaphthalene
Concen: 20.889 ng
RT: 8.981 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:142 Resp: 272276

Ion	Ratio	Lower	Upper
142	100		
141	89.9	71.1	106.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:164 Resp: 21335

Ion	Ratio	Lower	Upper
164	100		
162	99.9	78.8	118.2
160	45.0	35.8	53.6

Instrument :
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ClientSampleId :
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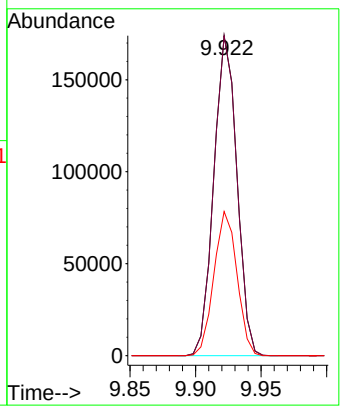
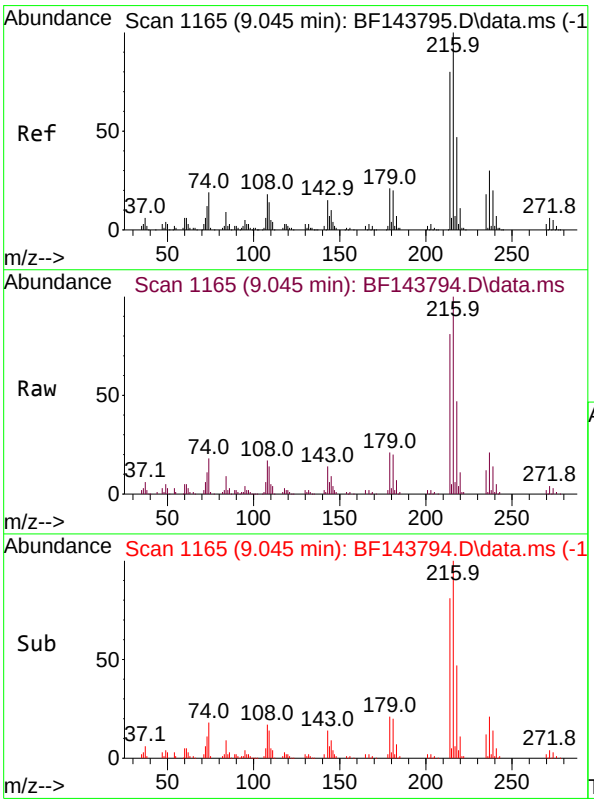
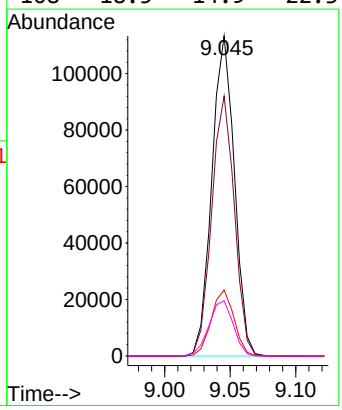


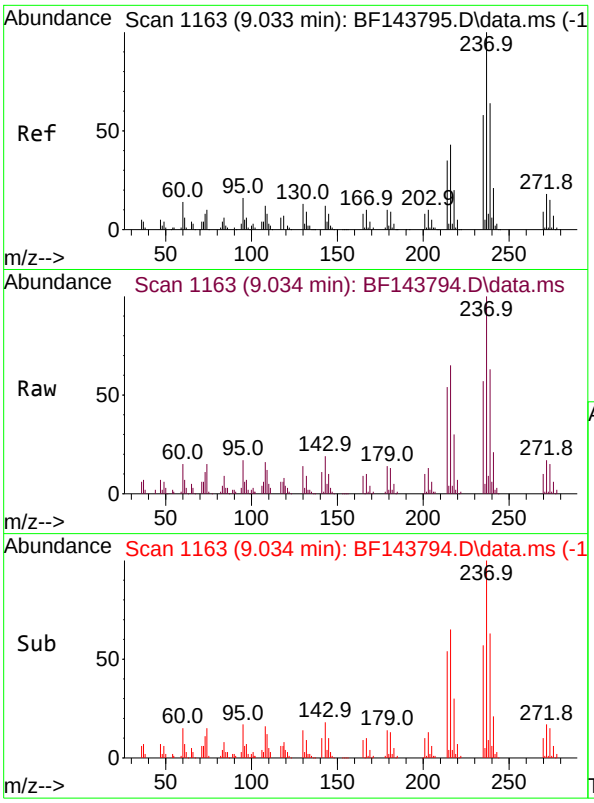


#40
1,2,4,5-Tetrachlorobenzene
Concen: 21.074 ng
RT: 9.045 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:216 Resp: 135689

Ion	Ratio	Lower	Upper
216	100		
214	81.5	63.7	95.5
179	20.7	16.5	24.7
108	18.5	14.9	22.3

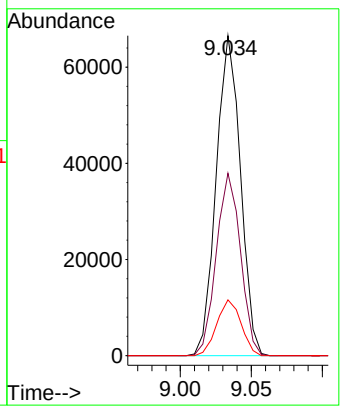




#41
Hexachlorocyclopentadiene
Concen: 19.382 ng
RT: 9.034 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:237 Resp: 7909

Ion	Ratio	Lower	Upper
237	100		
235	57.0	38.1	78.1
272	17.4	0.0	37.9



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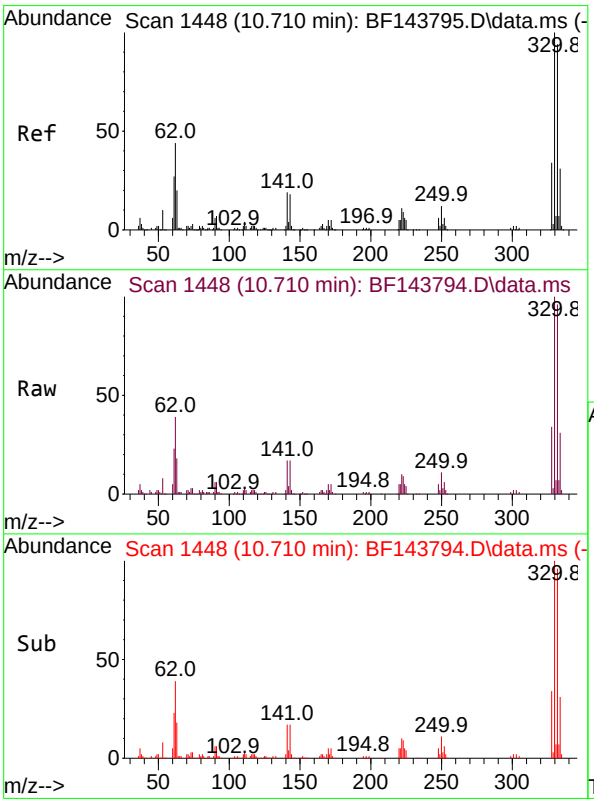
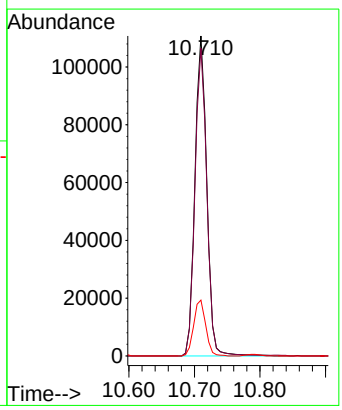
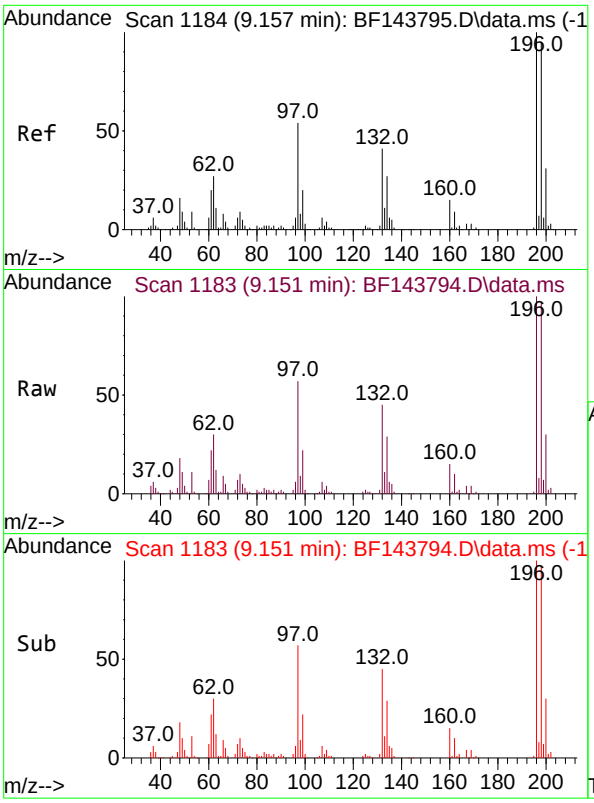


#42
2,4,6-Tribromophenol
Concen: 45.426 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:330 Resp: 138317

Ion	Ratio	Lower	Upper
330	100		
332	96.5	74.7	112.1
141	17.7	14.3	21.5

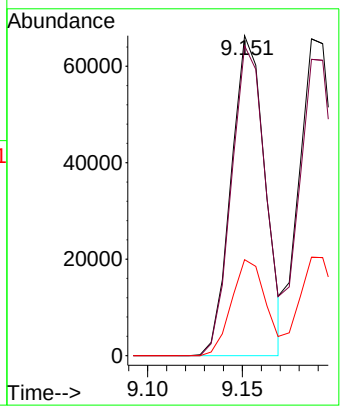




#43
2,4,6-Trichlorophenol
Concen: 20.423 ng
RT: 9.151 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:196 Resp: 8234

Ion	Ratio	Lower	Upper
196	100		
198	96.8	76.2	114.2
200	30.0	24.7	37.1



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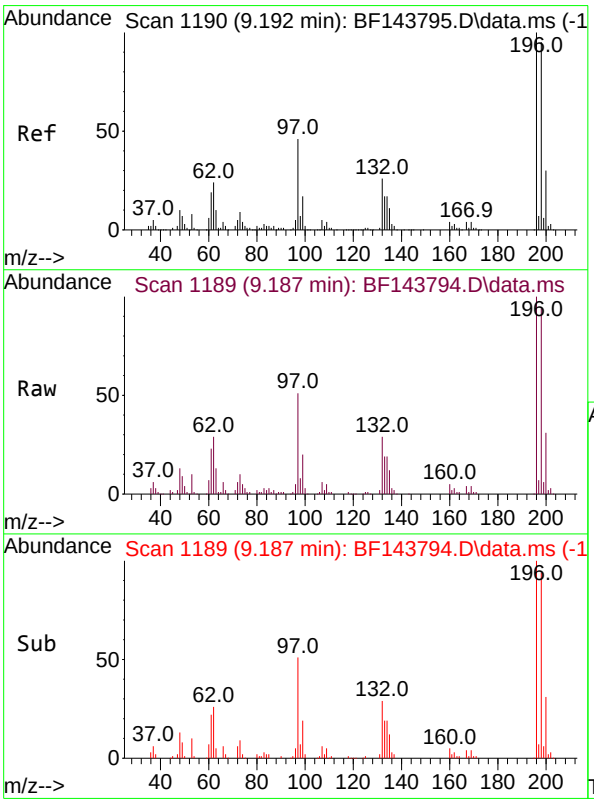
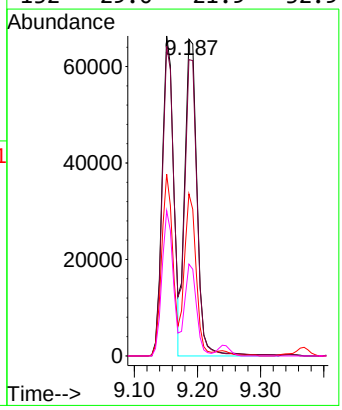
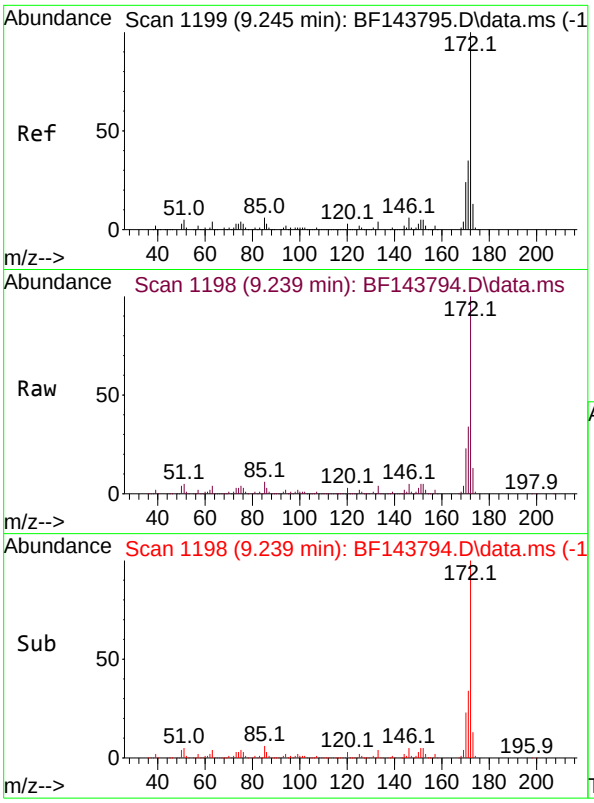


#44
2,4,5-Trichlorophenol
Concen: 21.213 ng
RT: 9.187 min Scan# 1189
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:196 Resp: 89458

Ion	Ratio	Lower	Upper
196	100		
198	93.5	75.9	113.9
97	51.2	38.3	57.5
132	29.0	21.9	32.9

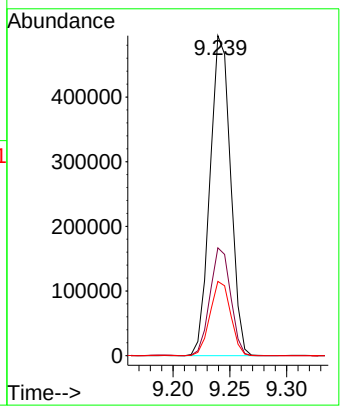




#45
2-Fluorobiphenyl
Concen: 43.140 ng
RT: 9.239 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:172 Resp: 622849

Ion	Ratio	Lower	Upper
172	100		
171	33.7	27.9	41.9
170	23.2	19.1	28.7



Instrument :
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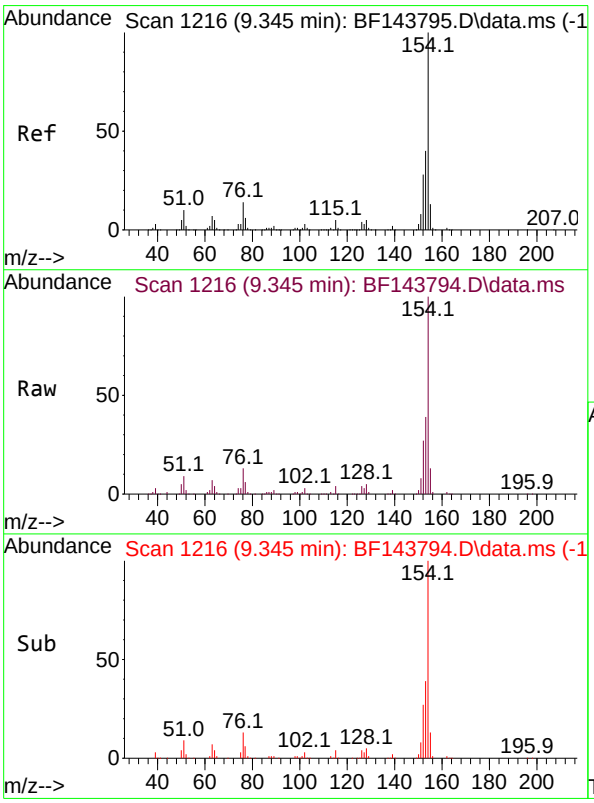
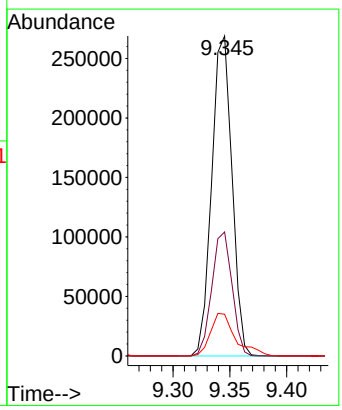
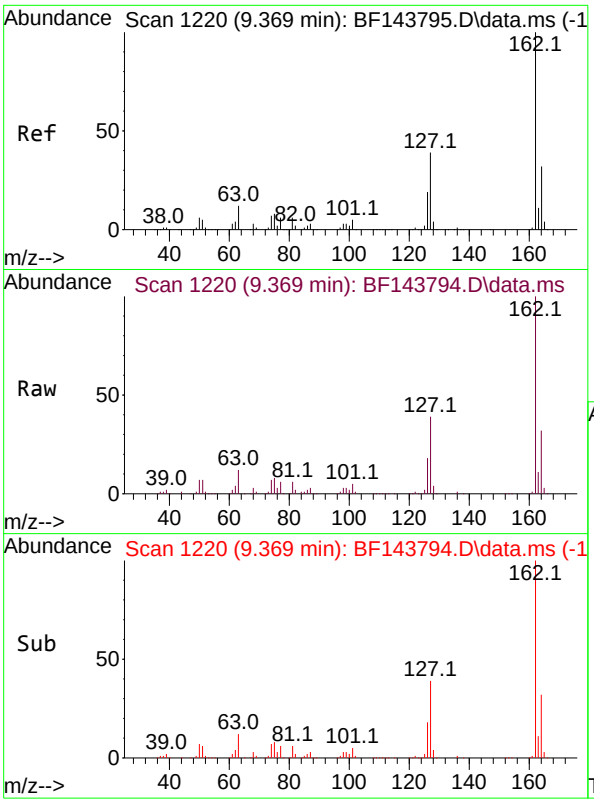


#46
1,1'-Biphenyl
Concen: 21.610 ng
RT: 9.345 min Scan# 1216
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:154 Resp: 333743

Ion	Ratio	Lower	Upper
154	100		
153	38.8	19.7	59.7
76	13.0	0.0	33.8

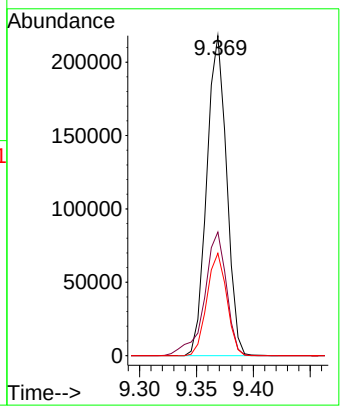




#47
2-Chloronaphthalene
Concen: 21.330 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:162 Resp: 265169

Ion	Ratio	Lower	Upper
162	100		
127	38.6	31.5	47.3
164	32.0	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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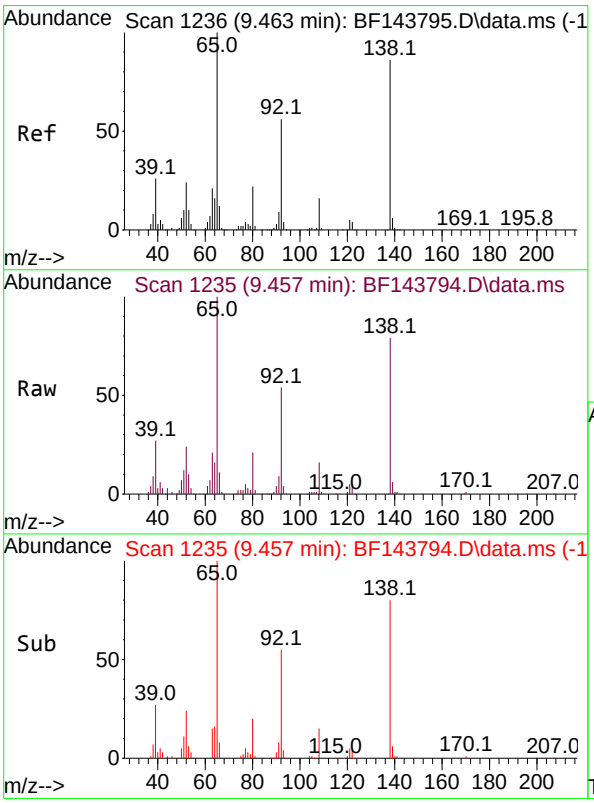
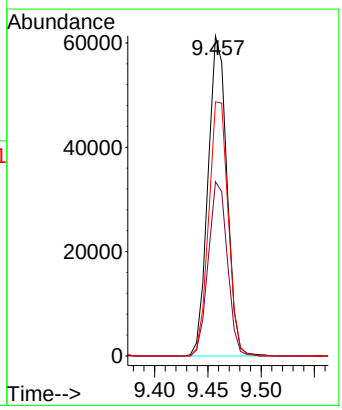
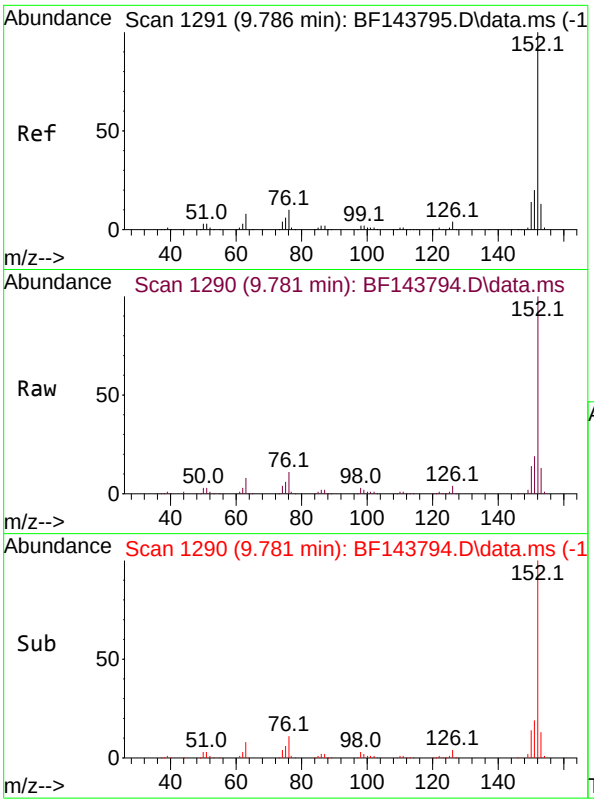


#48
2-Nitroaniline
Concen: 20.157 ng
RT: 9.457 min Scan# 1235
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 65 Resp: 75737

Ion	Ratio	Lower	Upper
65	100		
92	54.4	44.9	67.3
138	79.4	69.0	103.4

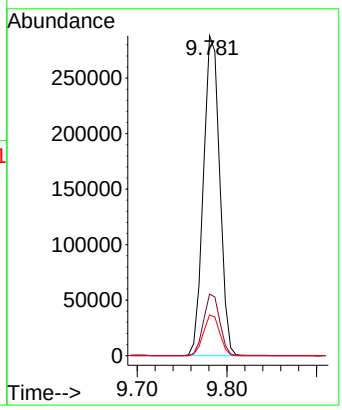




#49
Acenaphthylene
Concen: 21.195 ng
RT: 9.781 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:152 Resp: 362739

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.7	23.5
153	12.7	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
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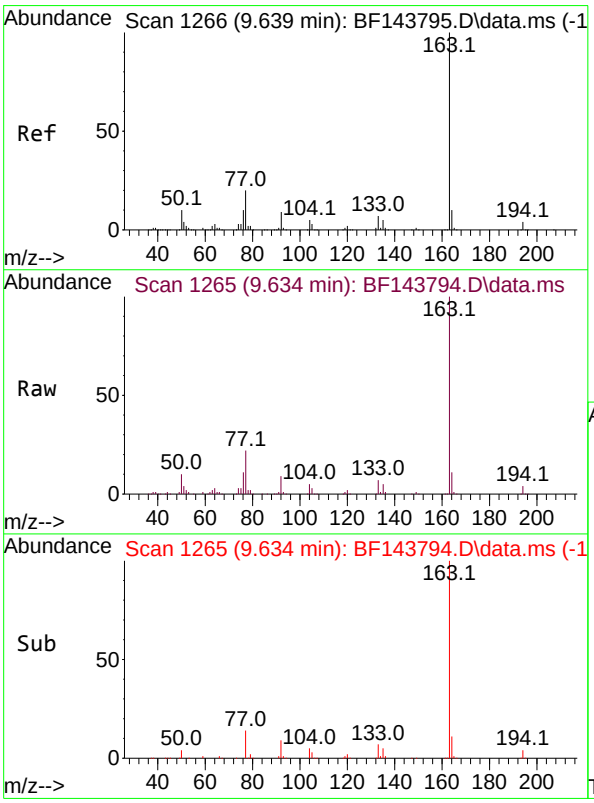
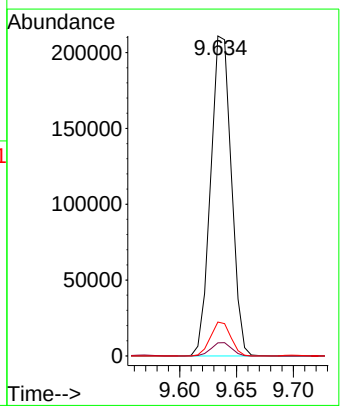
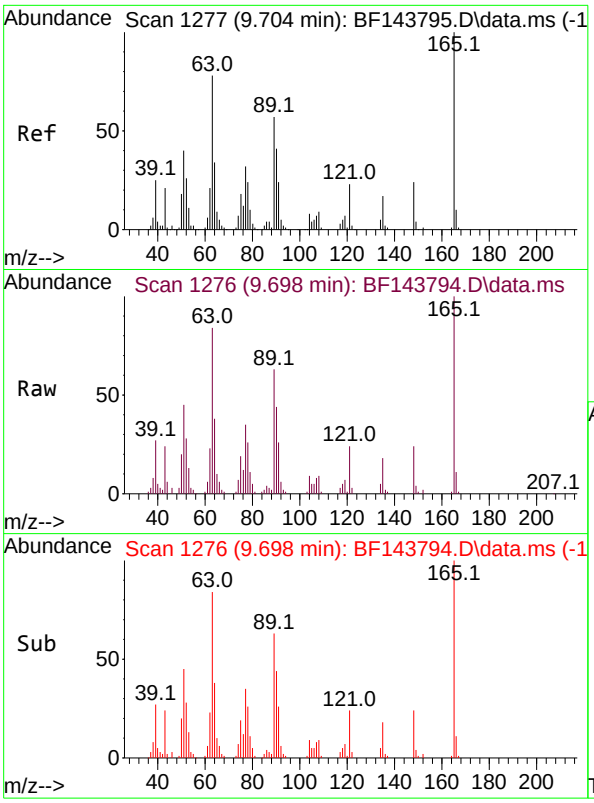


#50
Dimethylphthalate
Concen: 20.548 ng
RT: 9.634 min Scan# 1265
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:163 Resp: 267211

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.0	4.6
164	10.6	8.2	12.2

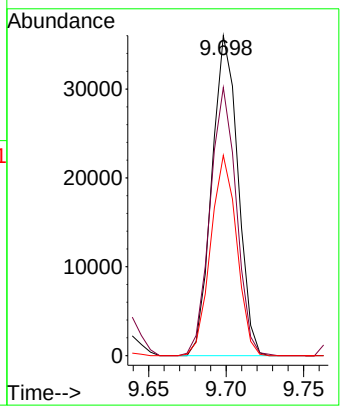




#51
2,6-Dinitrotoluene
Concen: 19.794 ng
RT: 9.698 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:165 Resp: 4229

Ion	Ratio	Lower	Upper
165	100		
63	83.8	62.6	94.0
89	62.6	45.2	67.8



Instrument :
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ClientSampleId :
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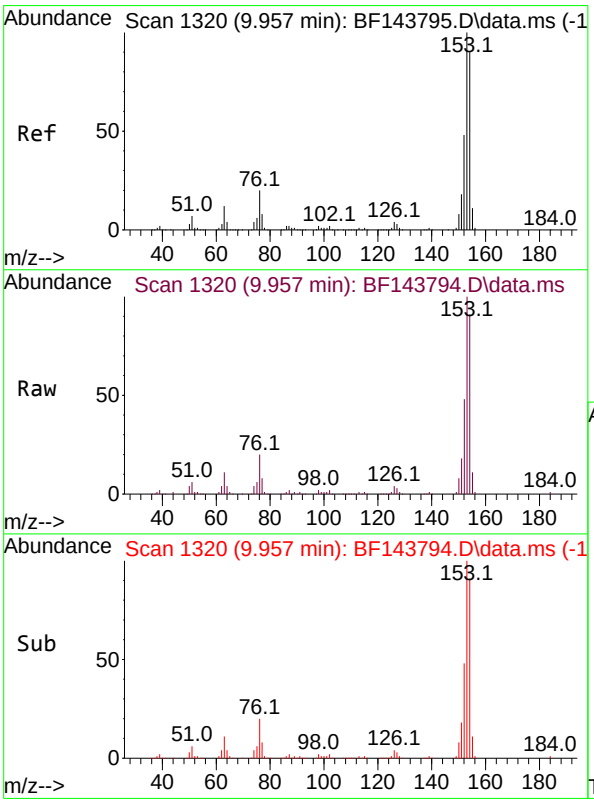
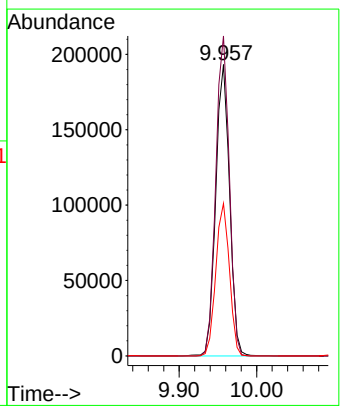
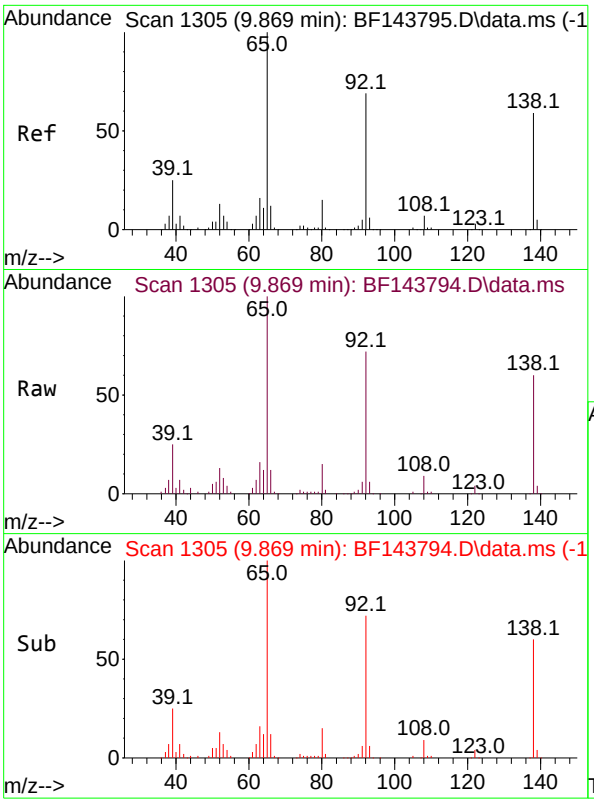


#52
Acenaphthene
Concen: 21.268 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:154 Resp: 239533

Ion	Ratio	Lower	Upper
154	100		
153	109.8	88.7	133.1
152	52.3	42.7	64.1





#53
3-Nitroaniline
Concen: 20.150 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:138 Resp: 5218

Ion	Ratio	Lower	Upper
138	100		
108	14.8	9.9	14.9
92	121.0	93.5	140.3

Instrument :
BNA_F
ClientSampleId :
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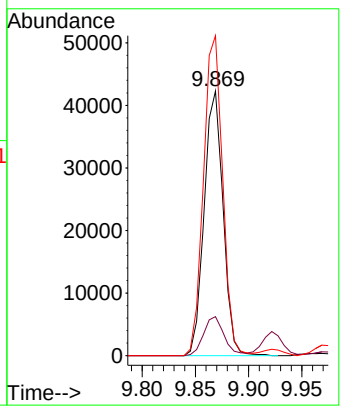
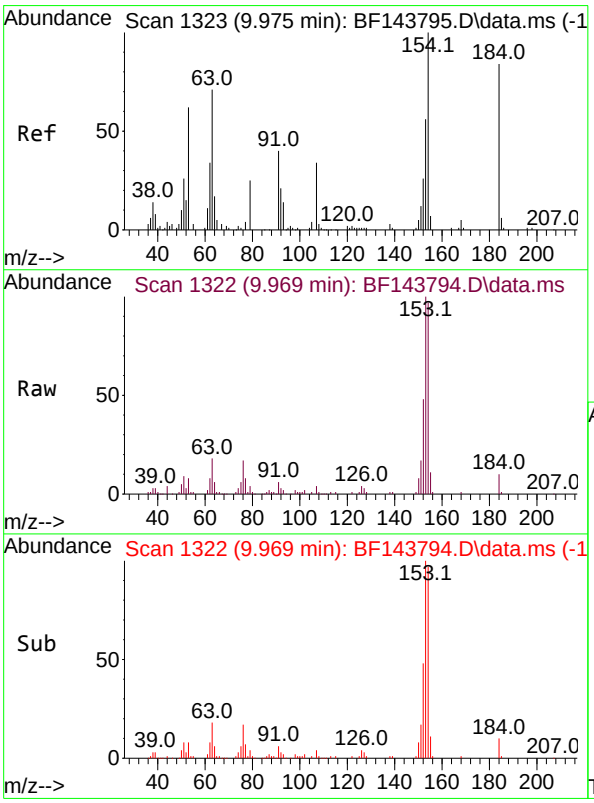
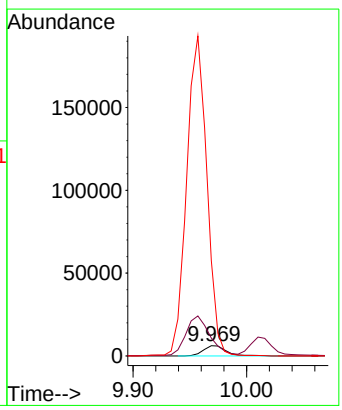


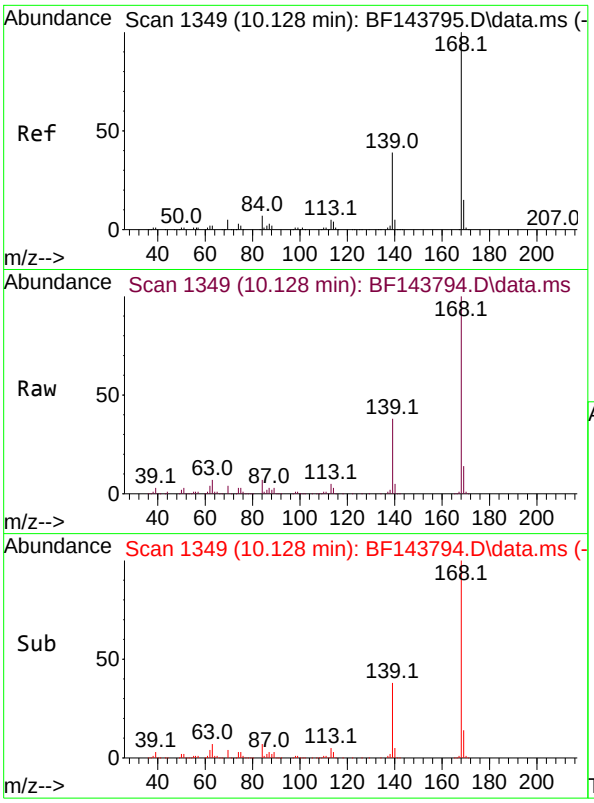


#54
2,4-Dinitrophenol
Concen: 16.759 ng
RT: 9.969 min Scan# 1322
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:184 Resp: 8519

Ion	Ratio	Lower	Upper
184	100		
63	174.8	84.6	127.0#
154	930.3	199.3	298.9#

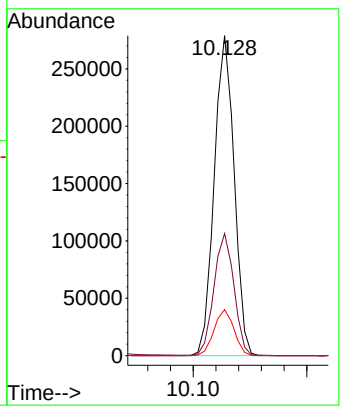




#55
Dibenzofuran
Concen: 21.305 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:168 Resp: 33930

Ion	Ratio	Lower	Upper
168	100		
139	38.2	31.0	46.6
169	14.4	11.9	17.9



Instrument :
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ClientSampleId :
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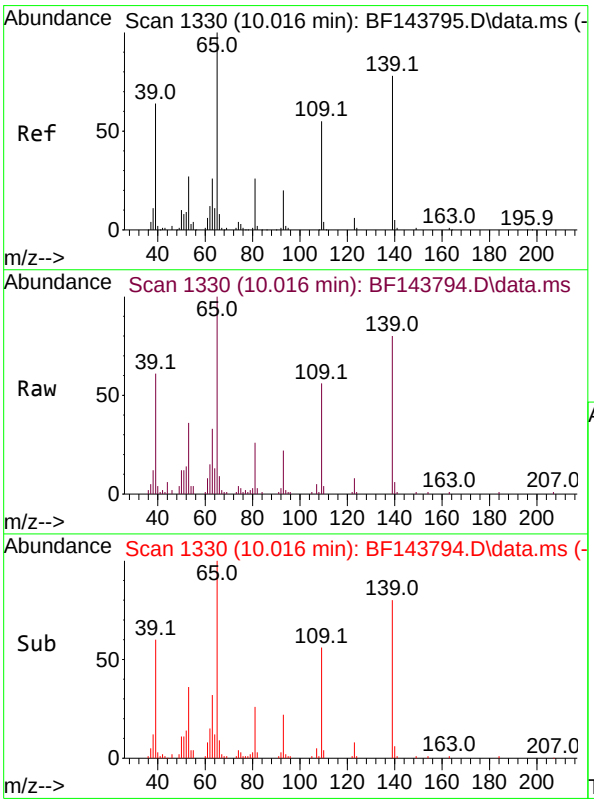
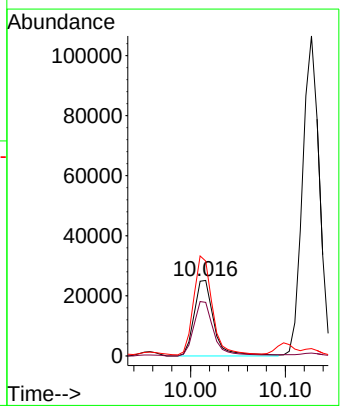
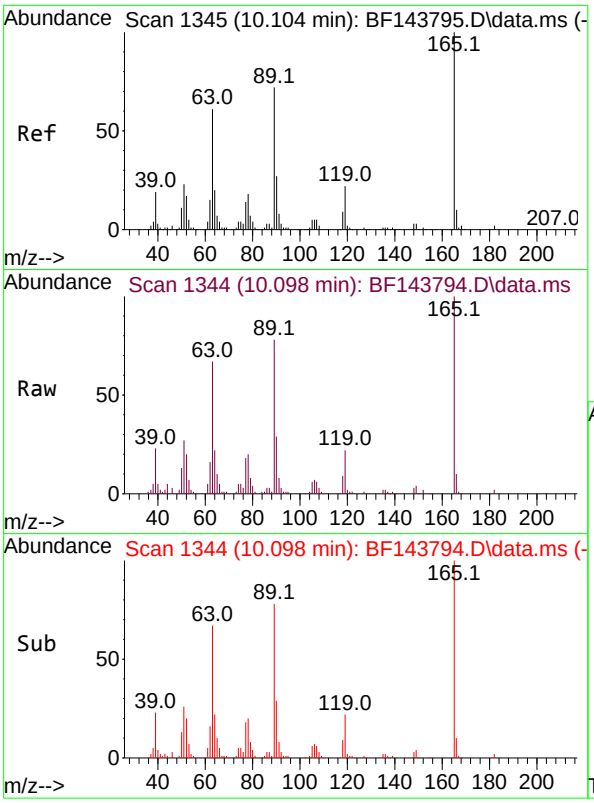


#56
4-Nitrophenol
Concen: 17.322 ng
RT: 10.016 min Scan# 1330
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:139 Resp: 36150

Ion	Ratio	Lower	Upper
139	100		
109	70.9	50.2	90.2
65	125.7	109.2	149.2

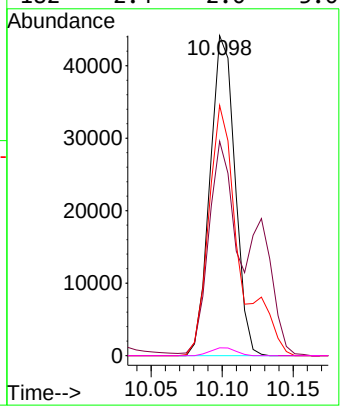




#57
2,4-Dinitrotoluene
Concen: 18.952 ng
RT: 10.098 min Scan# 1
Delta R.T. -0.012 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:165 Resp: 5413

Ion	Ratio	Lower	Upper
165	100		
63	67.0	48.9	73.3
89	78.2	57.5	86.3
182	2.4	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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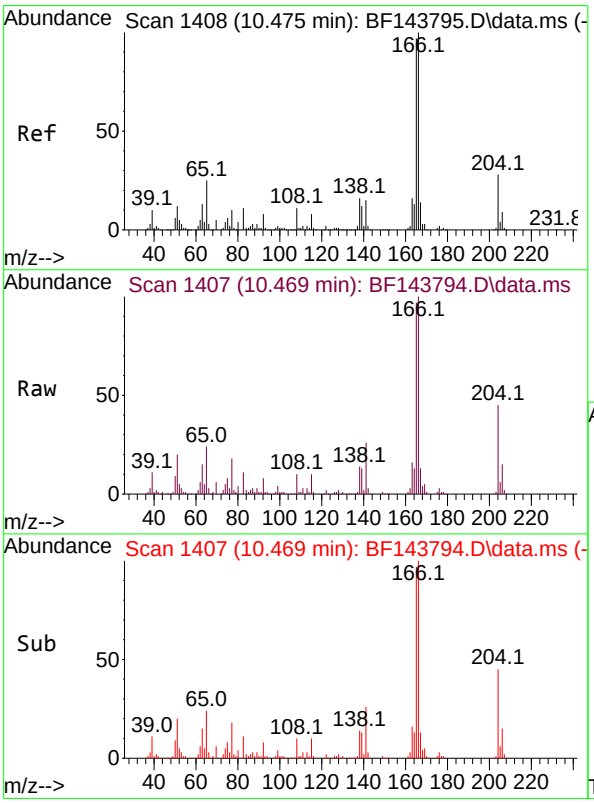
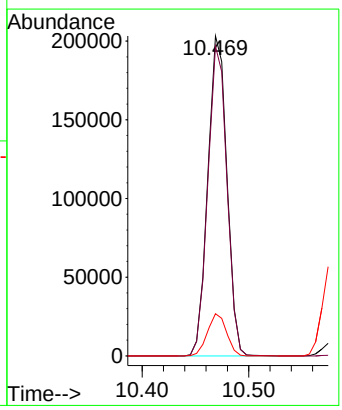
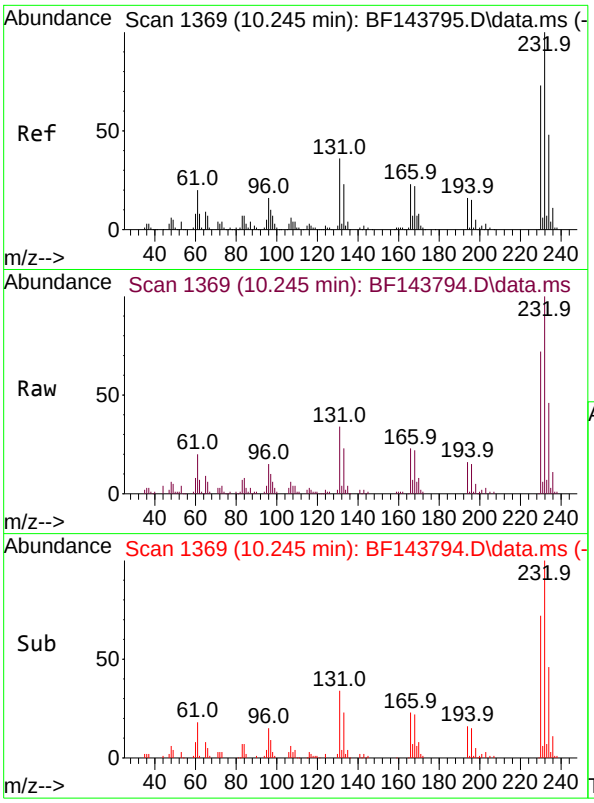


#58
Fluorene
Concen: 21.445 ng
RT: 10.469 min Scan# 1407
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:166 Resp: 253897

Ion	Ratio	Lower	Upper
166	100		
165	96.8	78.0	117.0
167	13.2	10.9	16.3

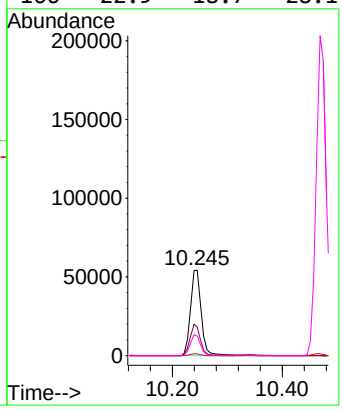




#59
2,3,4,6-Tetrachlorophenol
Concen: 20.618 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:232 Resp: 7448

Ion	Ratio	Lower	Upper
232	100		
131	34.9	29.4	44.2
130	1.9	1.3	1.9#
166	22.9	18.7	28.1



Instrument :
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ClientSampleId :
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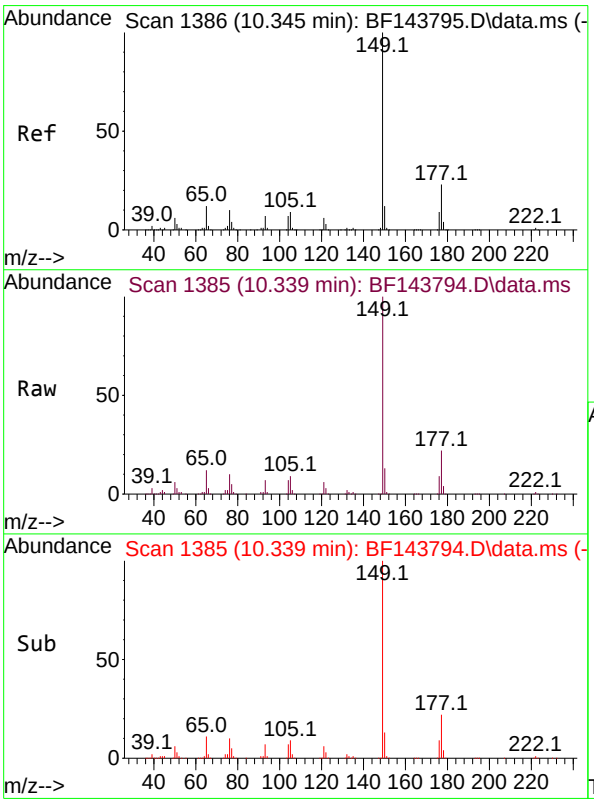
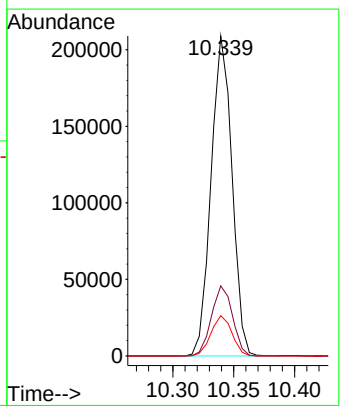
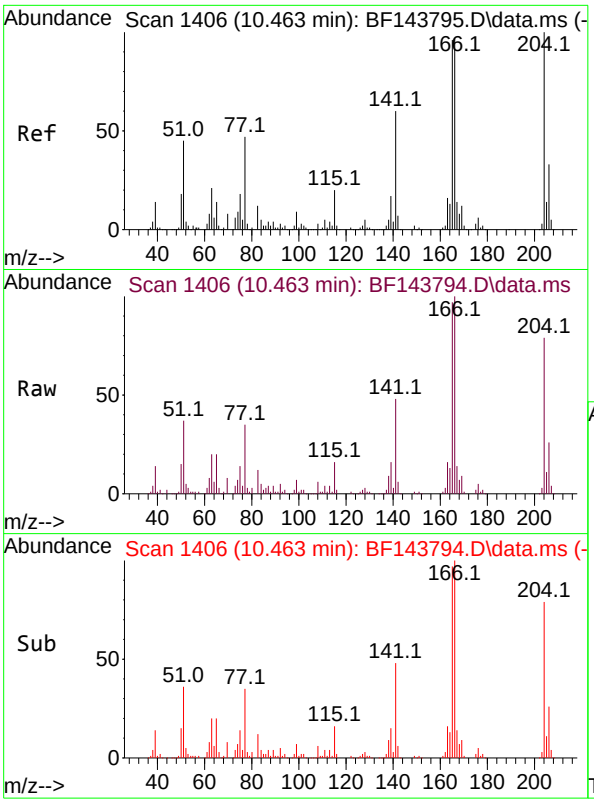


#60
Diethylphthalate
Concen: 20.575 ng
RT: 10.339 min Scan# 1385
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:149 Resp: 250459

Ion	Ratio	Lower	Upper
149	100		
177	21.9	18.1	27.1
150	12.6	9.7	14.5





#61
4-Chlorophenyl-phenylether
Concen: 21.242 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:204 Resp: 12814

Ion	Ratio	Lower	Upper
204	100		
206	33.2	26.7	40.1
141	61.4	48.2	72.2

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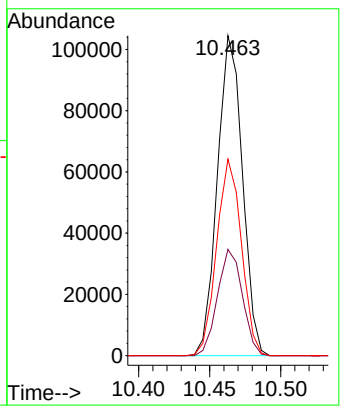
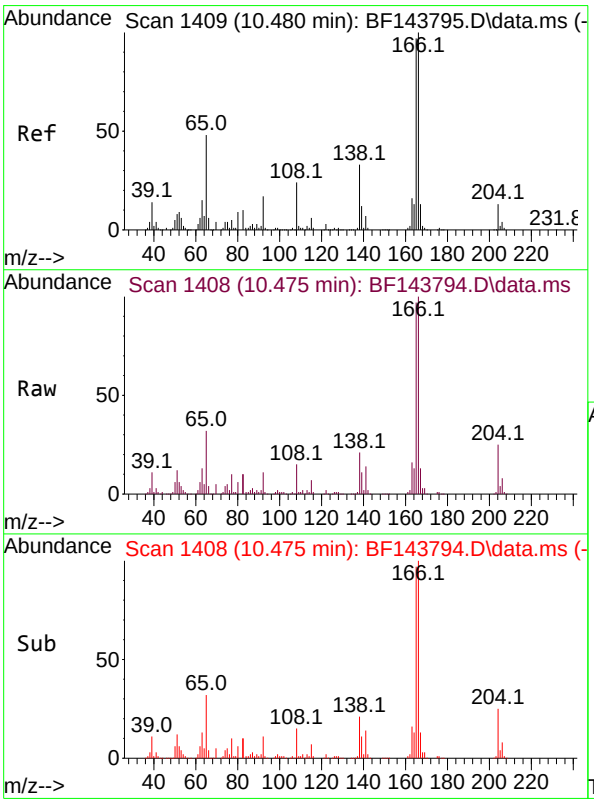
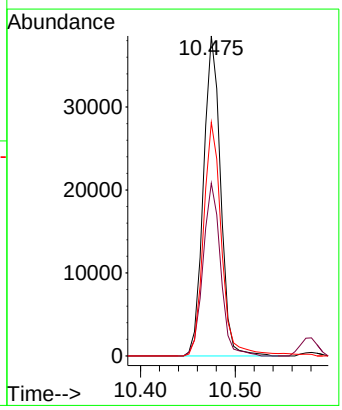


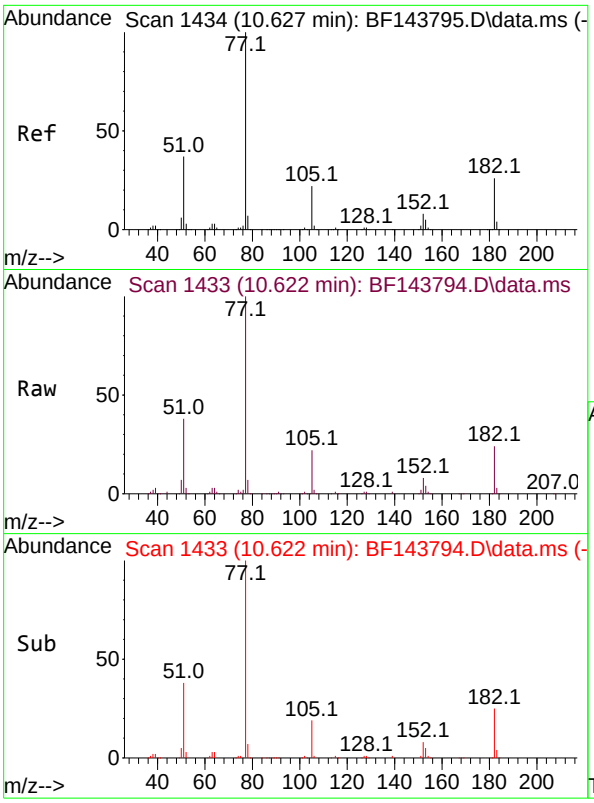


#62
4-Nitroaniline
Concen: 19.941 ng
RT: 10.475 min Scan# 1408
Delta R.T. -0.018 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:138 Resp: 48558

Ion	Ratio	Lower	Upper
138	100		
92	54.0	31.5	71.5
108	73.0	51.9	91.9

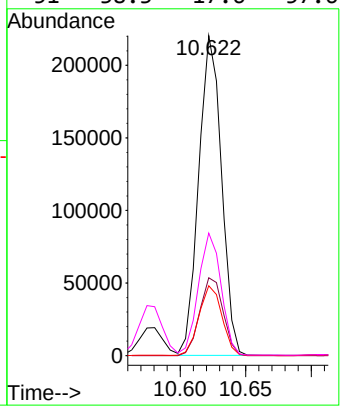




#63
Azobenzene
Concen: 20.720 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion: 77 Resp: 26582

Ion	Ratio	Lower	Upper
77	100		
182	24.3	5.9	45.9
105	21.8	2.3	42.3
51	38.3	17.6	57.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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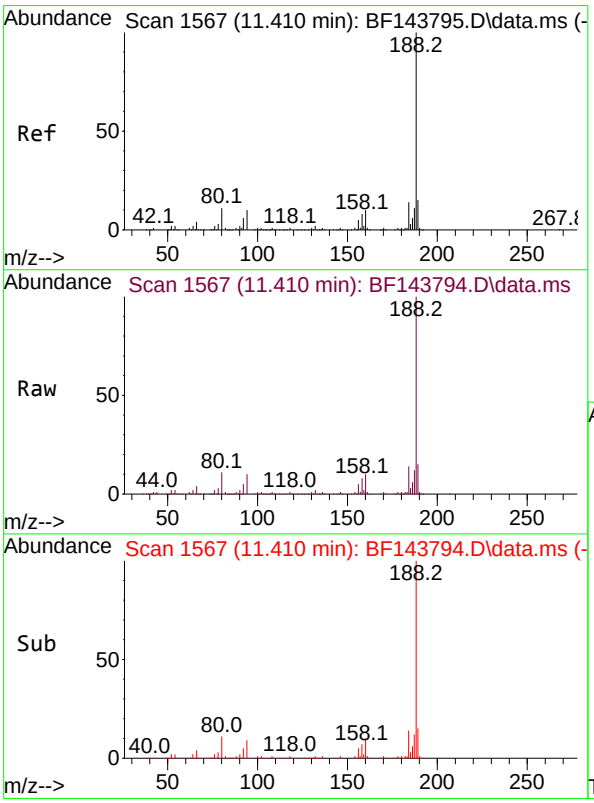
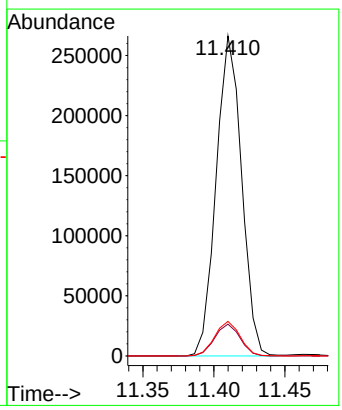
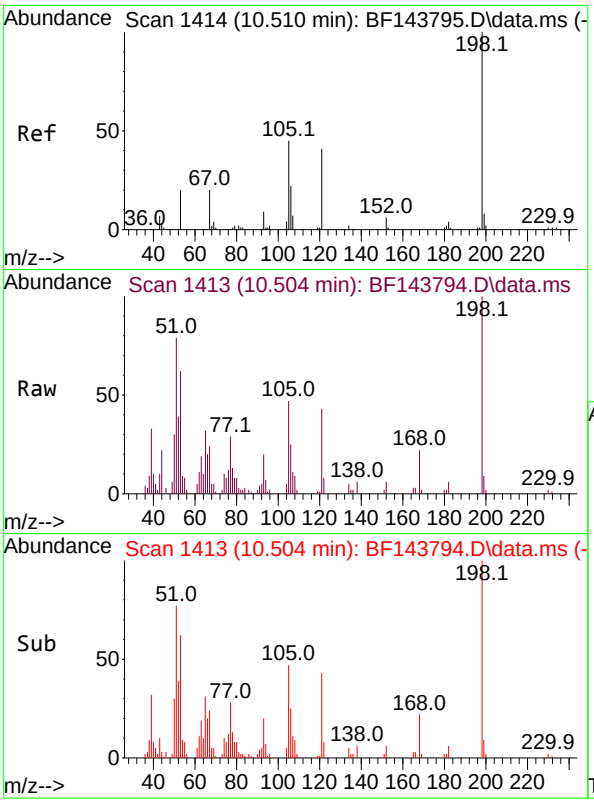


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:188 Resp: 331910

Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.2	12.2
80	10.8	8.6	12.8





#65
4,6-Dinitro-2-methylphenol
Concen: 17.632 ng
RT: 10.504 min Scan# 14
Delta R.T. -0.012 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:198 Resp: 1549

Ion	Ratio	Lower	Upper
198	100		
51	79.4	52.0	92.0
105	46.7	27.5	67.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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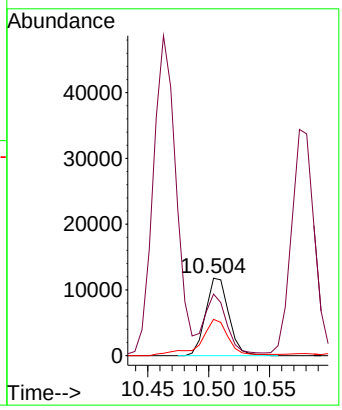
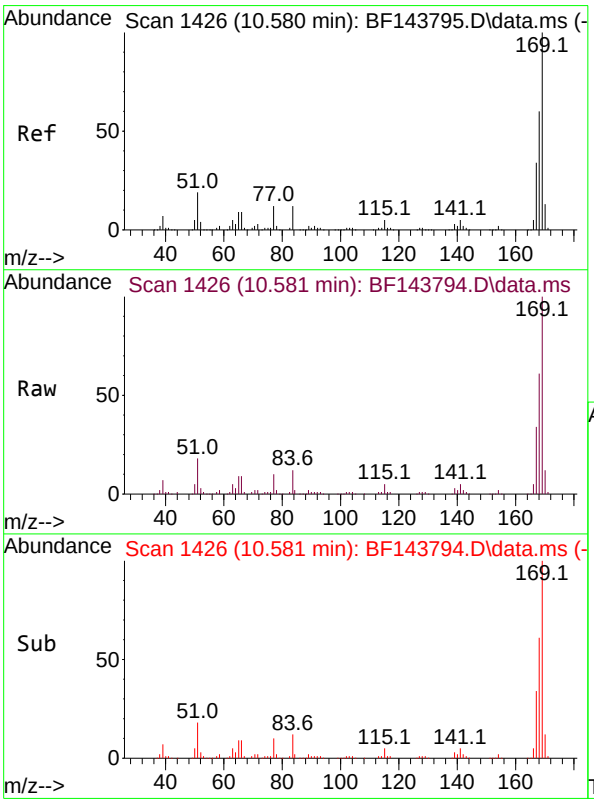
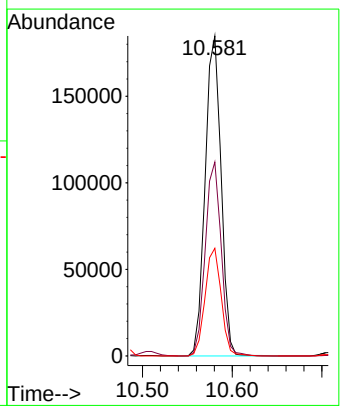


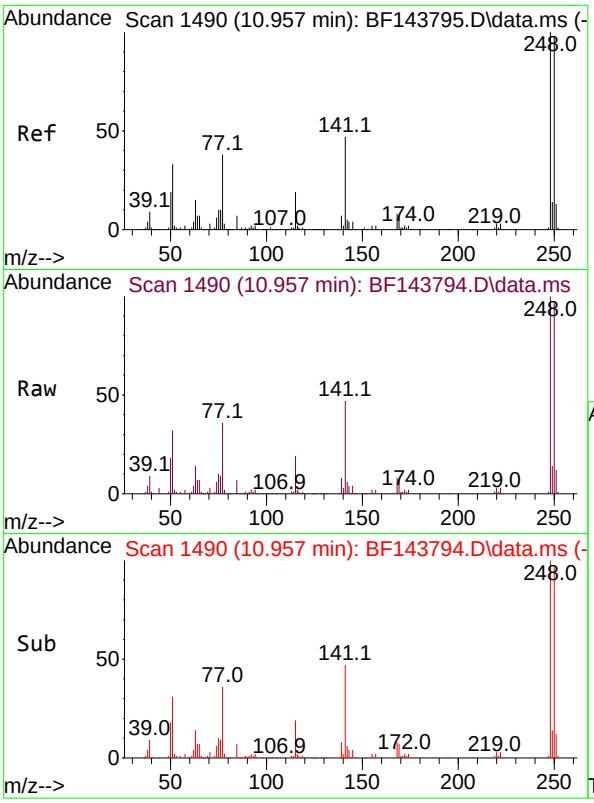


#66
n-Nitrosodiphenylamine
Concen: 20.930 ng
RT: 10.581 min Scan# 1426
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:169 Resp: 228456

Ion	Ratio	Lower	Upper
169	100		
168	60.6	47.9	71.9
167	33.6	27.0	40.6

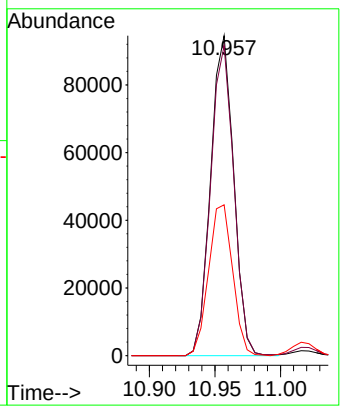




#67
4-Bromophenyl-phenylether
Concen: 20.464 ng
RT: 10.957 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:248 Resp: 115749

Ion	Ratio	Lower	Upper
248	100		
250	96.9	78.7	118.1
141	47.1	37.9	56.9



Instrument :
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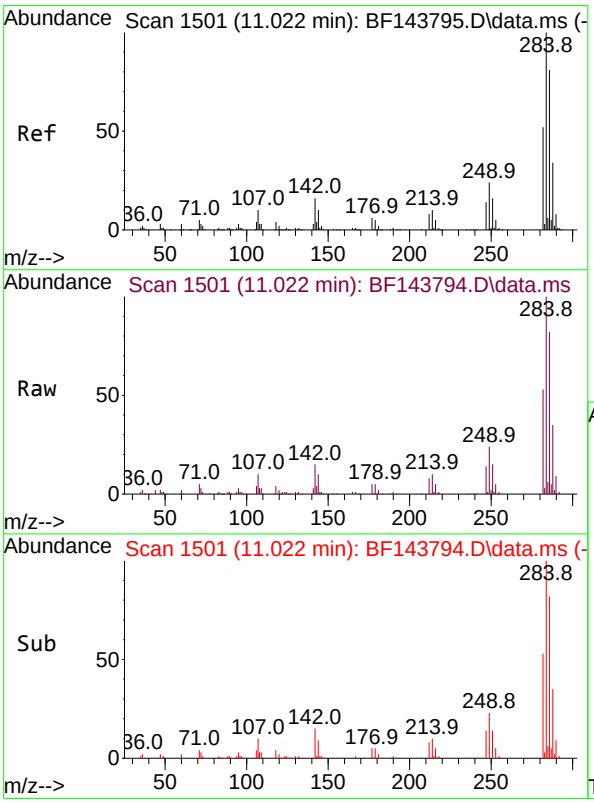
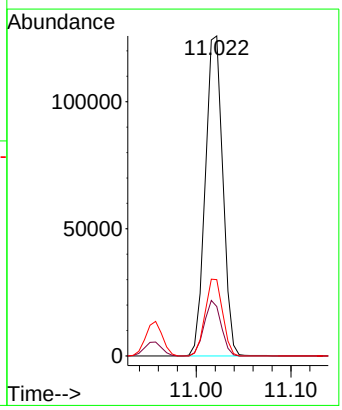
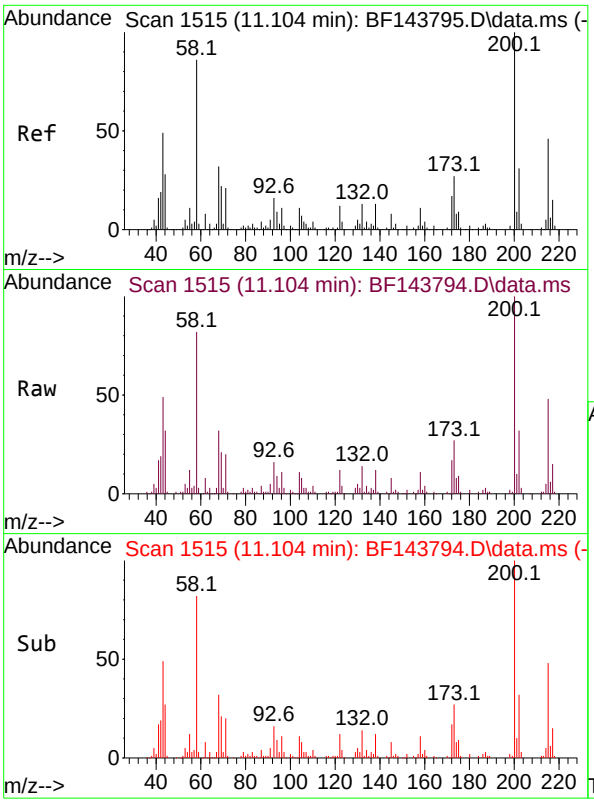


#68
Hexachlorobenzene
Concen: 20.797 ng
RT: 11.022 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:284 Resp: 162113

Ion	Ratio	Lower	Upper
284	100		
142	15.4	13.1	19.7
249	23.8	19.5	29.3

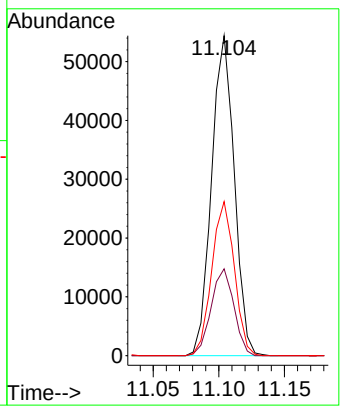




#69
Atrazine
Concen: 20.747 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:200 Resp: 6558

Ion	Ratio	Lower	Upper
200	100		
173	27.1	7.2	47.2
215	48.1	26.0	66.0



Instrument :
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ClientSampleId :
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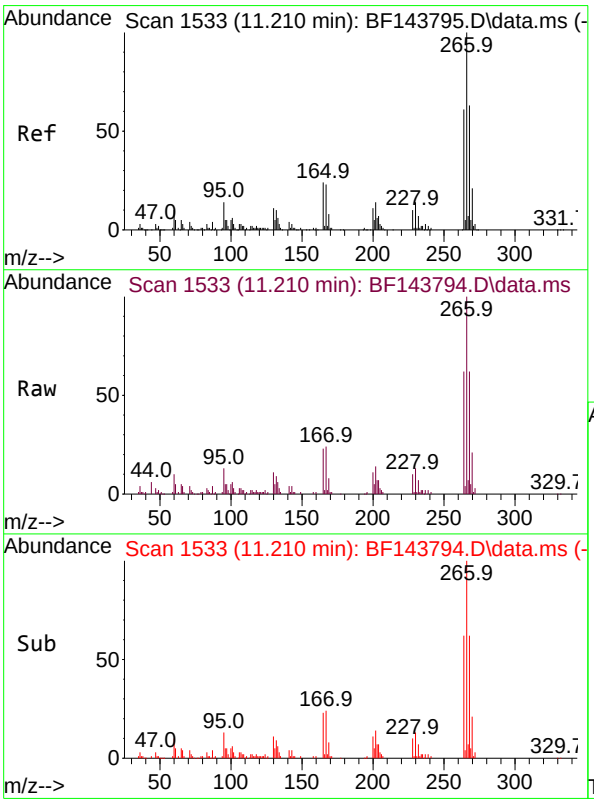
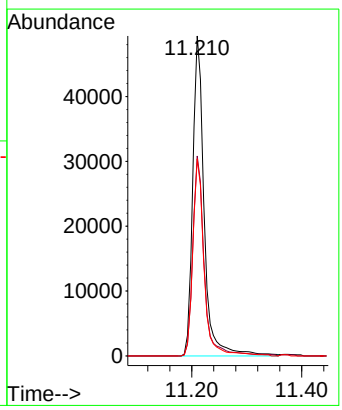
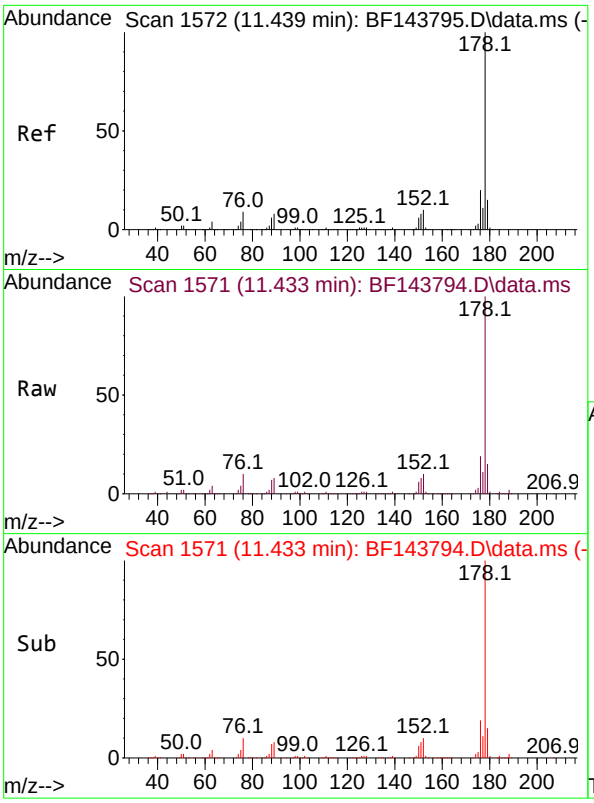


#70
Pentachlorophenol
Concen: 18.449 ng
RT: 11.210 min Scan# 1533
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:266 Resp: 71585

Ion	Ratio	Lower	Upper
266	100		
268	62.5	50.5	75.7
264	61.6	48.8	73.2

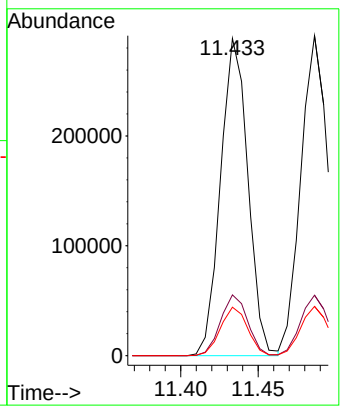




#71
Phenanthrene
Concen: 20.854 ng
RT: 11.433 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:178 Resp: 35536

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.6	23.4
179	15.3	12.2	18.4



Instrument :
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ClientSampleId :
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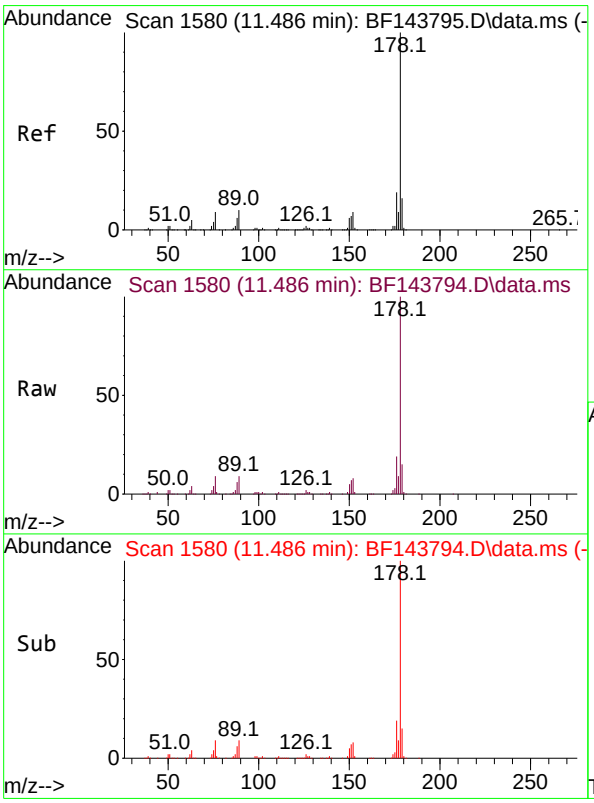
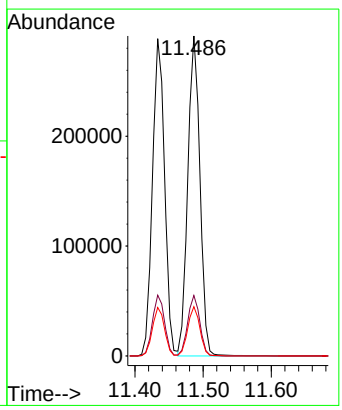
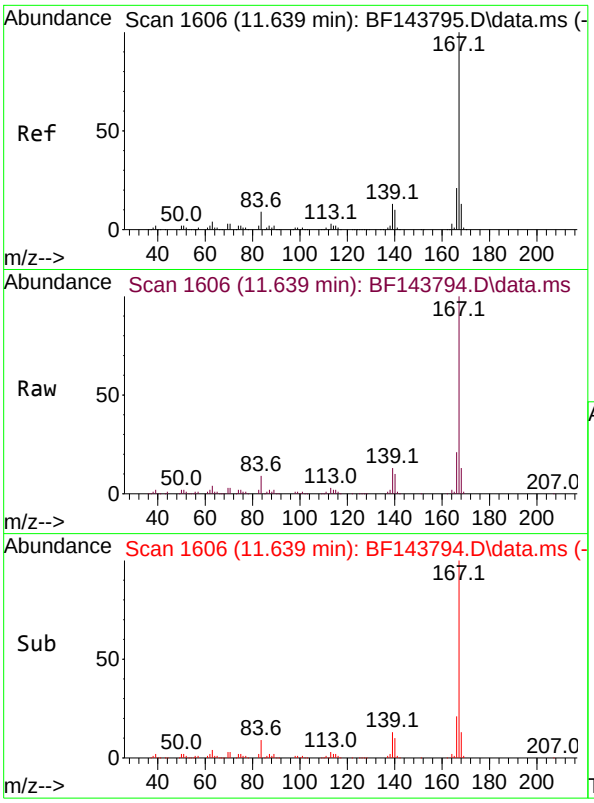


#72
Anthracene
Concen: 21.135 ng
RT: 11.486 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:178 Resp: 361245

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.3	22.9
179	15.4	12.8	19.2

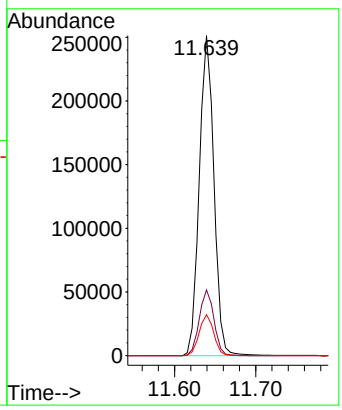




#73
Carbazole
Concen: 21.072 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:167 Resp: 31490

Ion	Ratio	Lower	Upper
167	100		
166	20.5	17.0	25.4
139	12.8	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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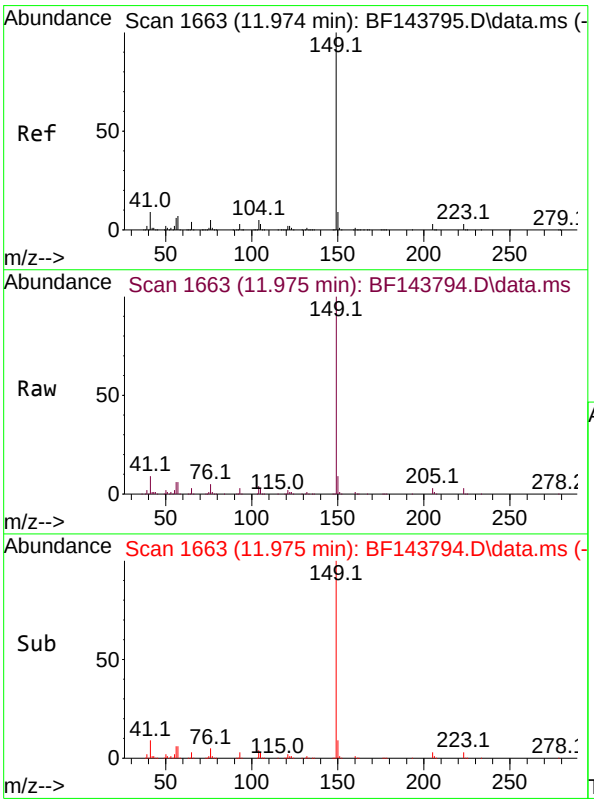
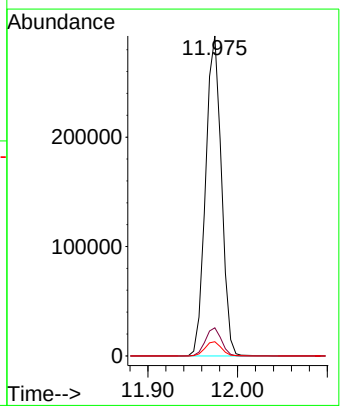
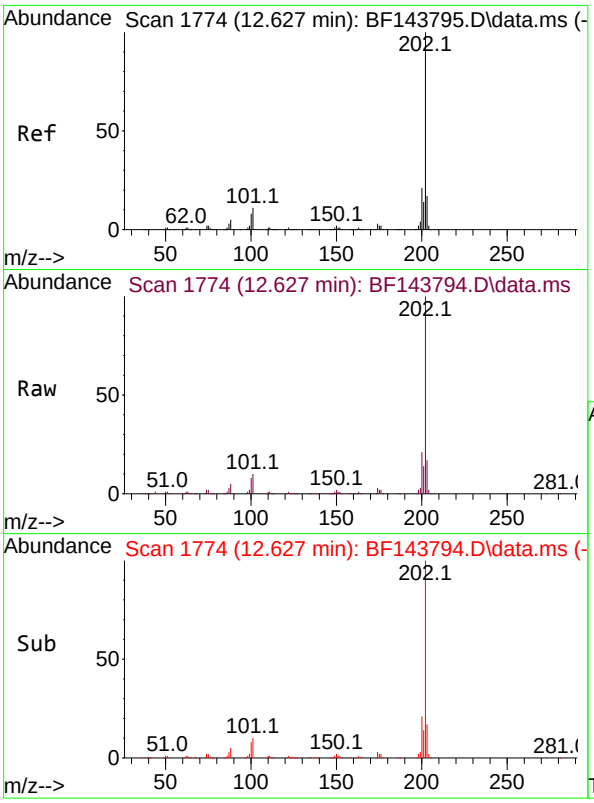


#74
Di-n-butylphthalate
Concen: 20.764 ng
RT: 11.975 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:149 Resp: 356883

Ion	Ratio	Lower	Upper
149	100		
150	8.8	7.3	10.9
104	4.4	3.6	5.4

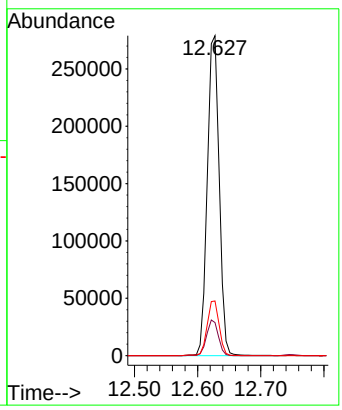




#75
Fluoranthene
Concen: 21.284 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:202 Resp: 36477

Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	31.1
203	17.1	0.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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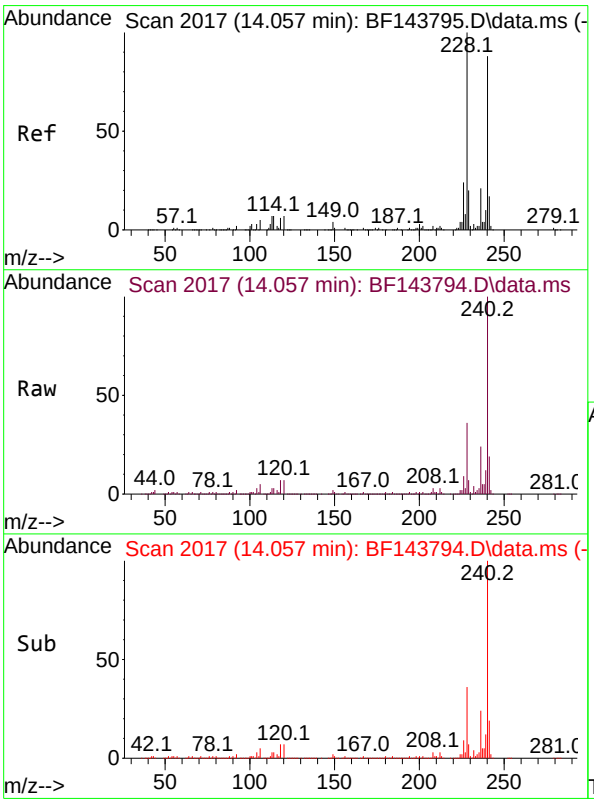
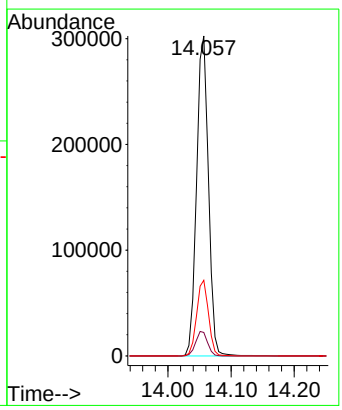
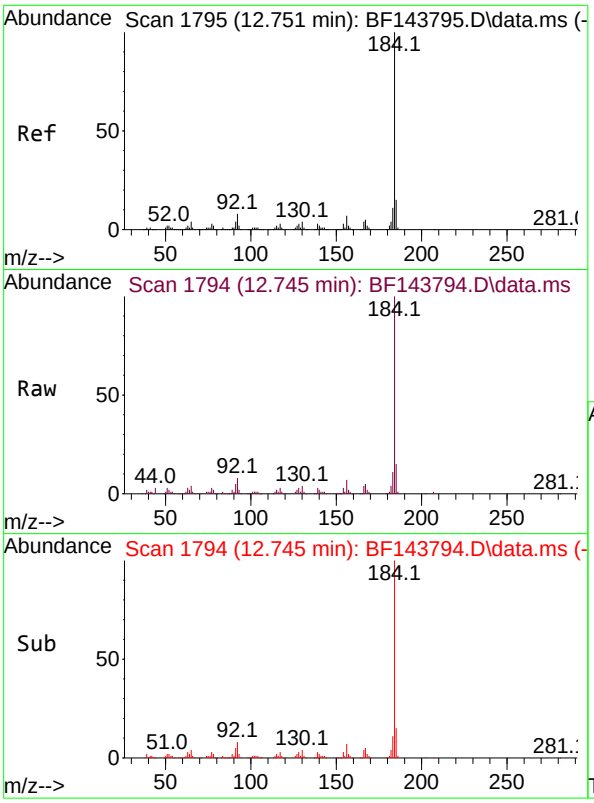


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:240 Resp: 394143

Ion	Ratio	Lower	Upper
240	100		
120	7.3	6.2	9.4
236	23.6	19.4	29.2

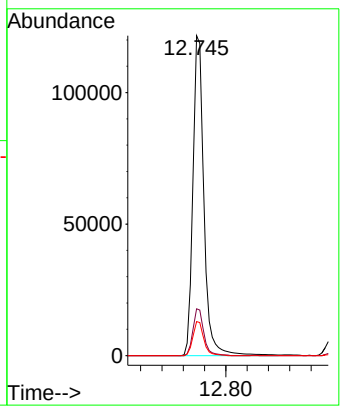




#77
Benzidine
Concen: 18.220 ng
RT: 12.745 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:184 Resp: 17499

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.6	17.4
183	10.6	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
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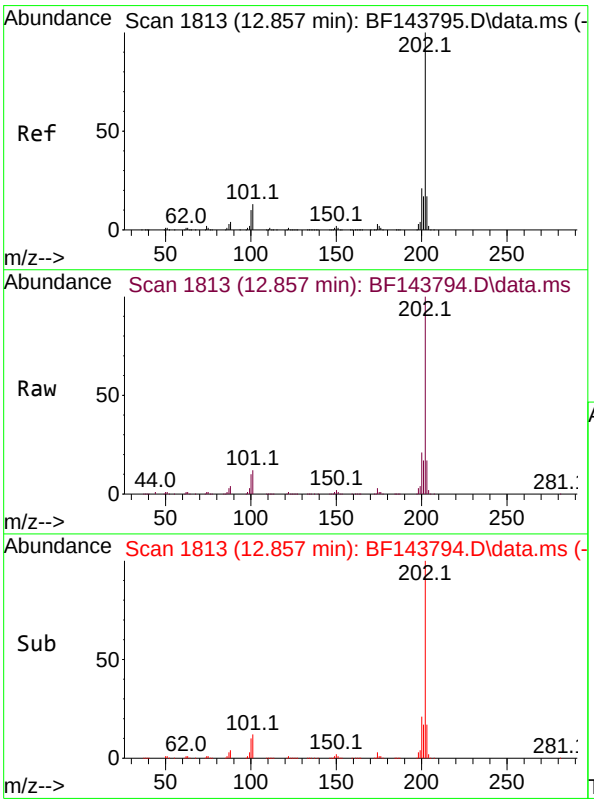
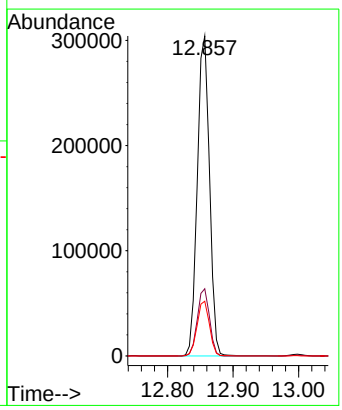
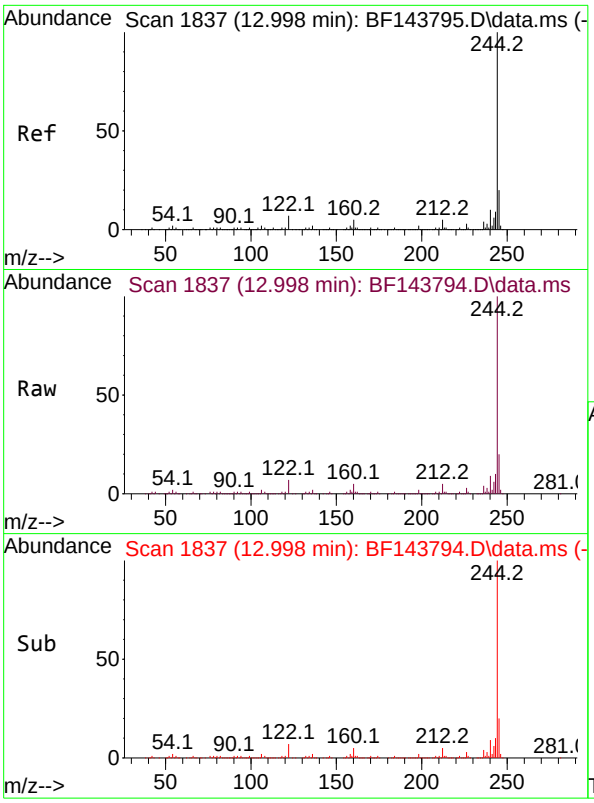


#78
Pyrene
Concen: 20.153 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:202 Resp: 390517

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.1	13.9	20.9





#79
Terphenyl-d14
Concen: 39.771 ng
RT: 12.998 min Scan# 18
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:244 Resp: 79842

Ion	Ratio	Lower	Upper
244	100		
212	4.7	3.9	5.9
122	7.0	5.6	8.4

Instrument :
BNA_F
ClientSampleId :
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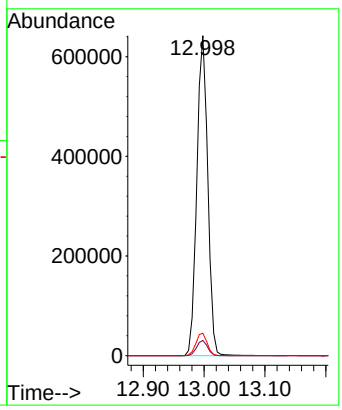
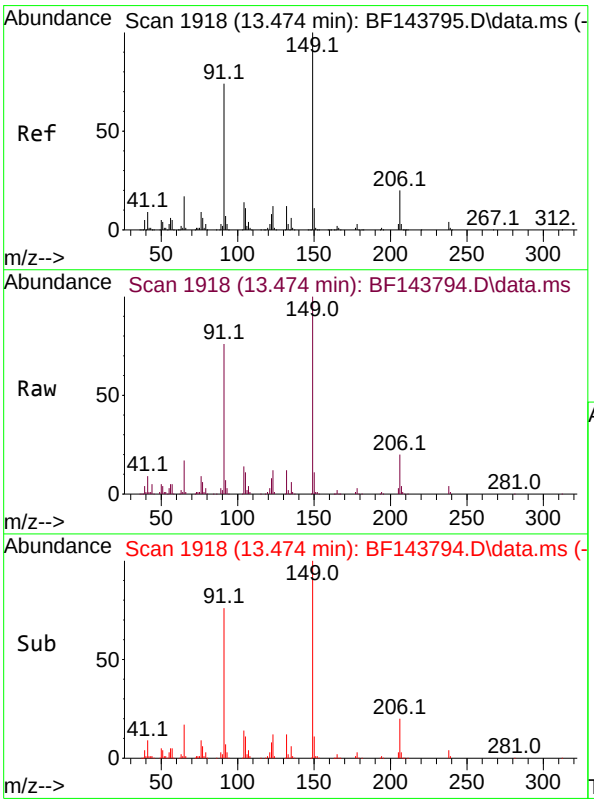
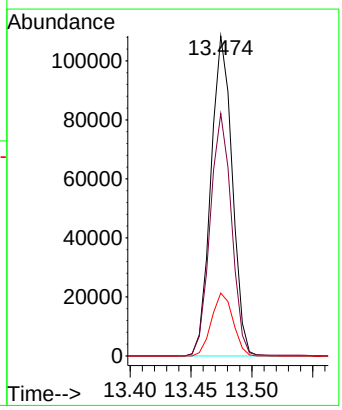


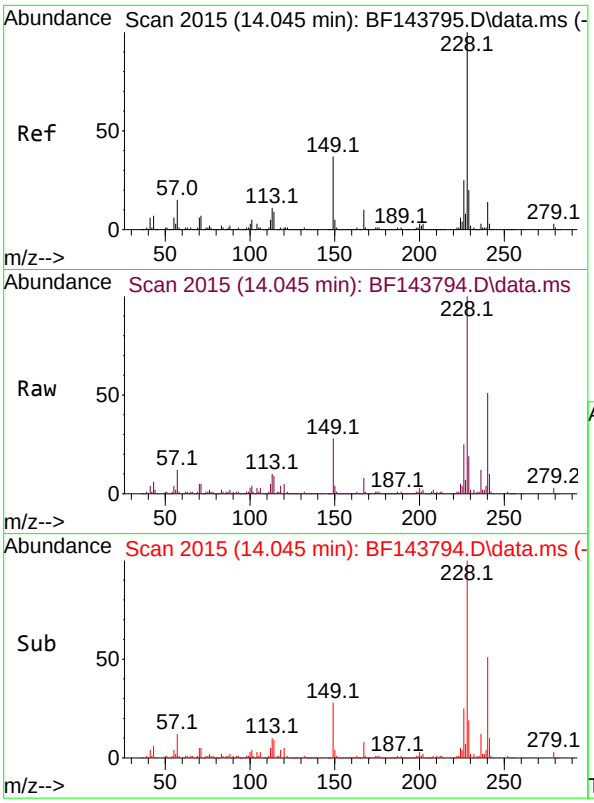


#80
Butylbenzylphthalate
Concen: 19.666 ng
RT: 13.474 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:149 Resp: 131846

Ion	Ratio	Lower	Upper
149	100		
91	75.7	59.5	89.3
206	19.6	16.1	24.1

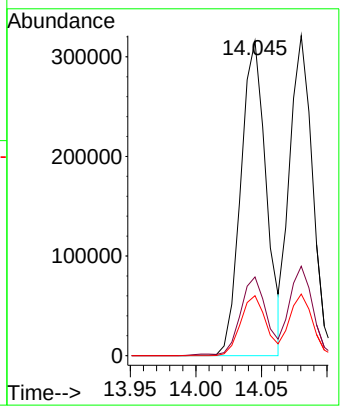




#81
Benzo(a)anthracene
Concen: 20.153 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:228 Resp: 42671

Ion	Ratio	Lower	Upper
228	100		
226	25.0	20.2	30.2
229	19.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

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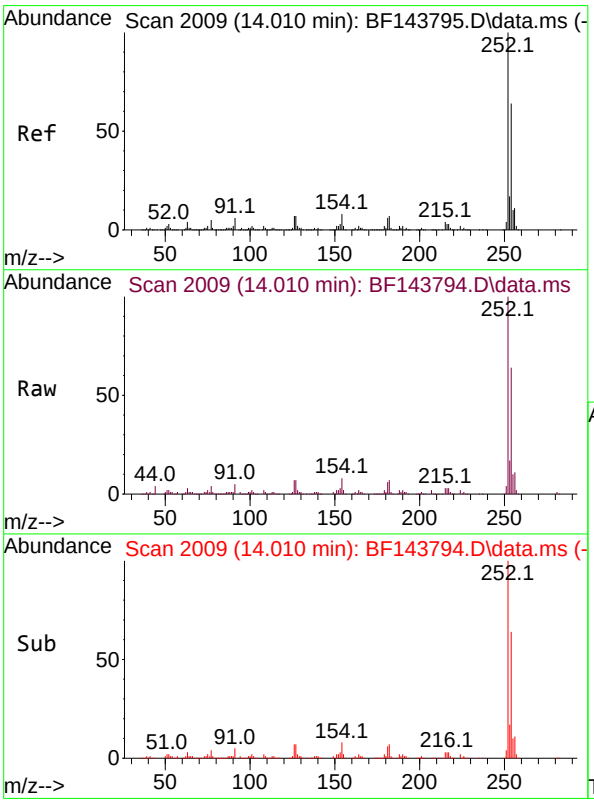
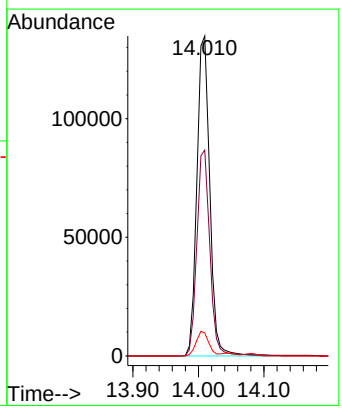
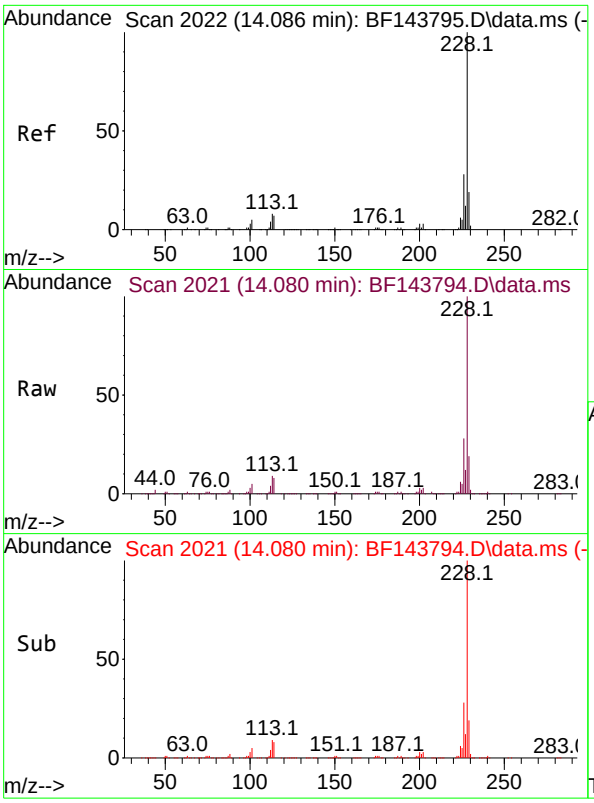


#82
3,3'-Dichlorobenzidine
Concen: 19.974 ng
RT: 14.010 min Scan# 2009
Delta R.T. 0.000 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:252 Resp: 183227

Ion	Ratio	Lower	Upper
252	100		
254	64.3	51.5	77.3
126	7.2	5.4	8.2

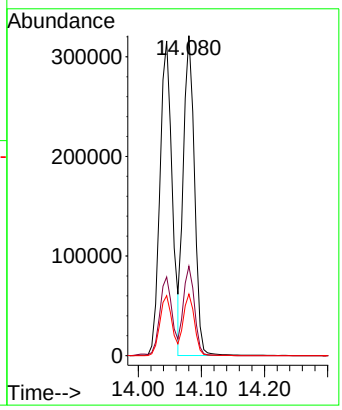




#83
Chrysene
Concen: 20.482 ng
RT: 14.080 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:228 Resp: 39243

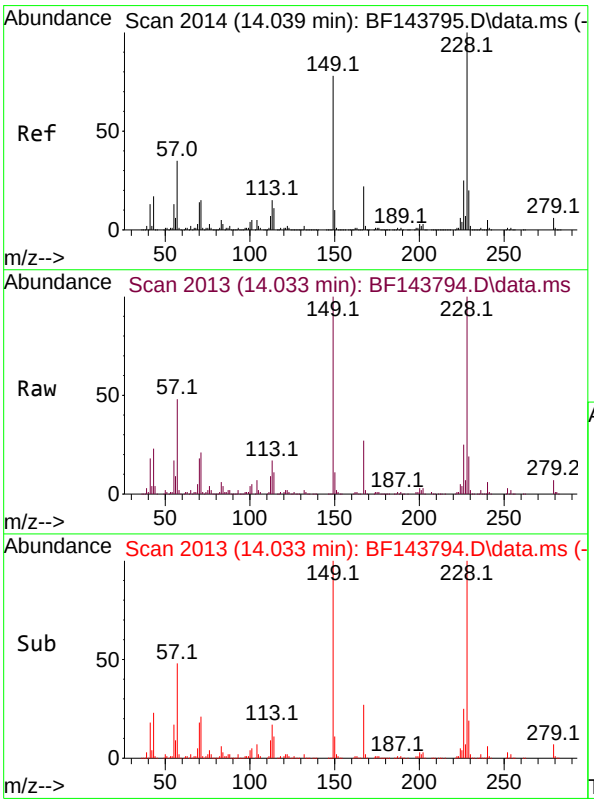
Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	33.8
229	19.2	15.6	23.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

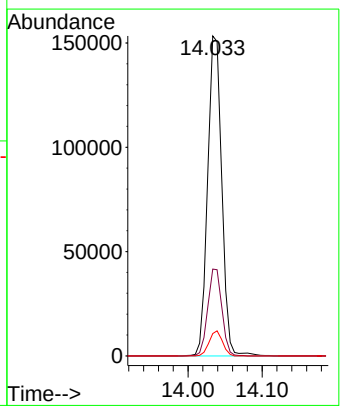
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

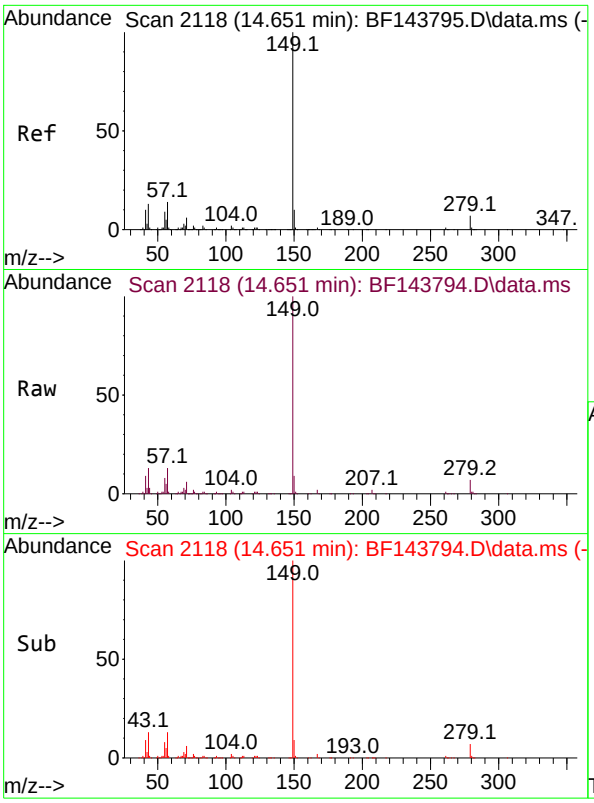


#84
Bis(2-ethylhexyl)phthalate
Concen: 20.620 ng
RT: 14.033 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:149 Resp: 202632

Ion	Ratio	Lower	Upper
149	100		
167	27.1	22.2	33.2
279	7.0	6.0	9.0

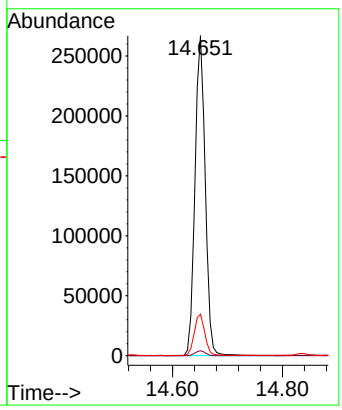




#85
Di-n-octyl phthalate
Concen: 19.397 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:149 Resp: 34575

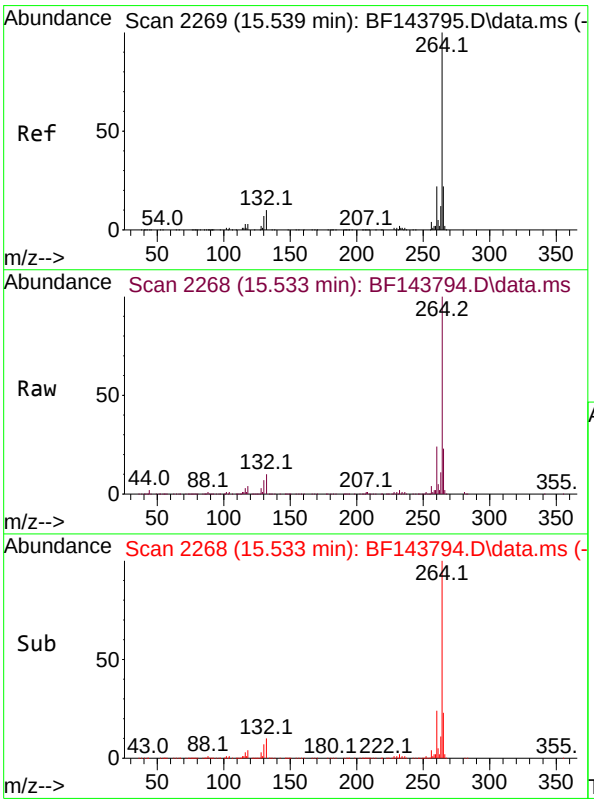
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.1	1.7
43	13.6	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

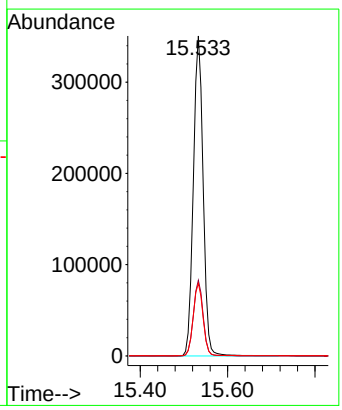
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

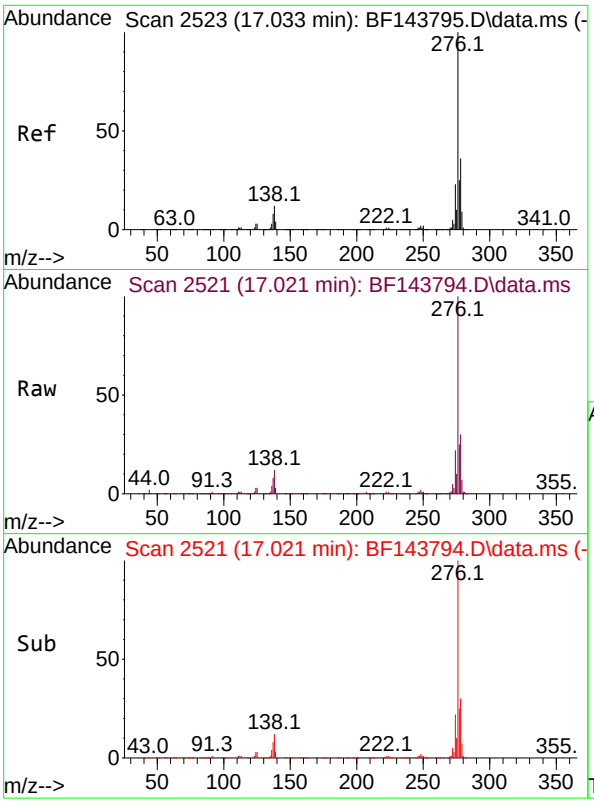


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:264 Resp: 545751

Ion	Ratio	Lower	Upper
264	100		
260	23.6	17.9	26.9
265	22.7	17.7	26.5

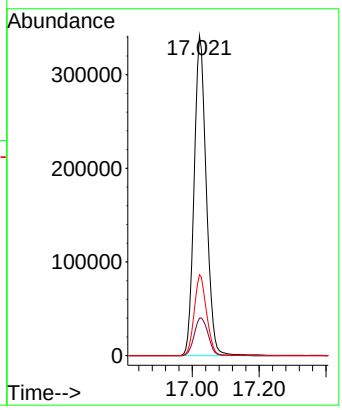




#87
Indeno(1,2,3-cd)pyrene
Concen: 20.824 ng
RT: 17.021 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:276 Resp: 86228

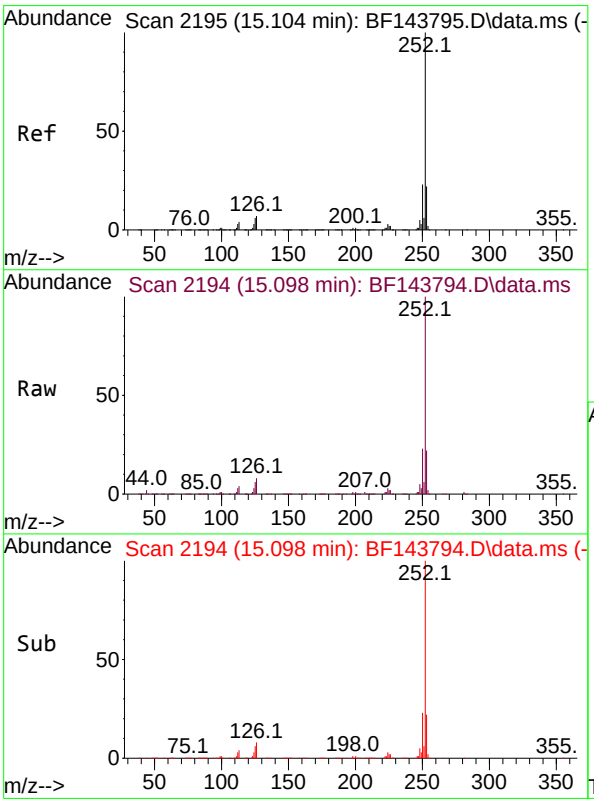
Ion	Ratio	Lower	Upper
276	100		
138	13.4	10.6	15.8
277	25.7	20.7	31.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

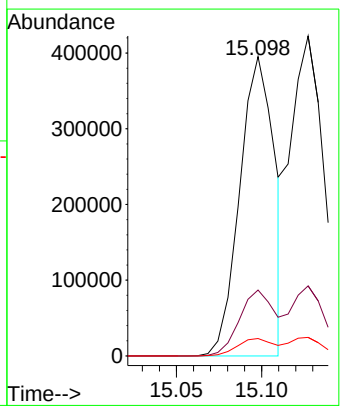
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

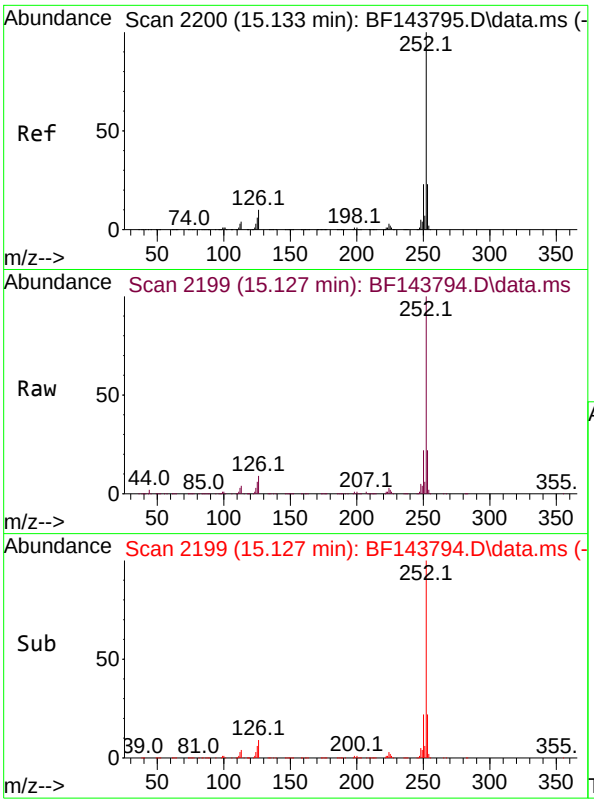


#88
Benzo(b)fluoranthene
Concen: 20.215 ng
RT: 15.098 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:252 Resp: 561825

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.8	26.8
125	5.8	4.4	6.6

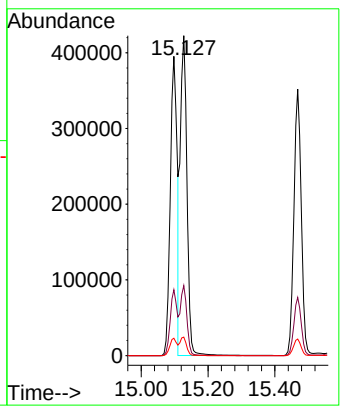




#89
Benzo(k)fluoranthene
Concen: 21.102 ng
RT: 15.127 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:252 Resp: 589201

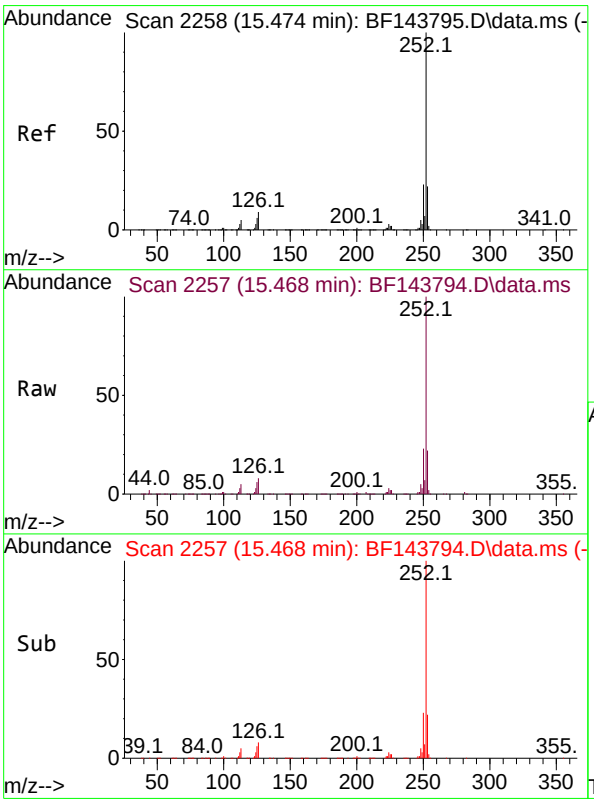
Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.9	26.9
125	5.8	4.6	6.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

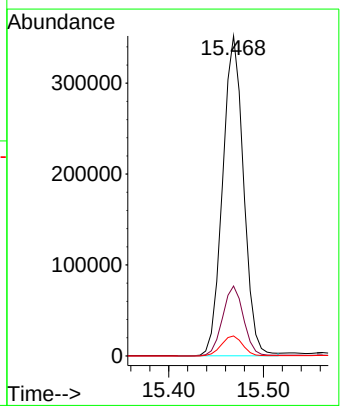
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

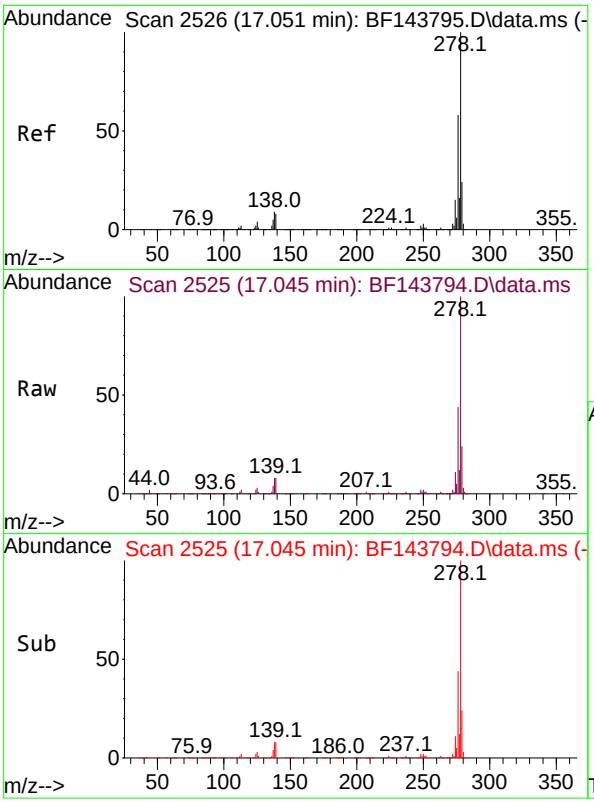


#90
Benzo(a)pyrene
Concen: 20.654 ng
RT: 15.468 min Scan# 2257
Delta R.T. -0.012 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:252 Resp: 539579

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	6.2	5.0	7.4

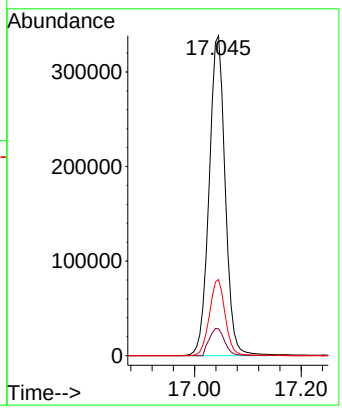




#91
Dibenzo(a,h)anthracene
Concen: 20.980 ng
RT: 17.045 min Scan# 2
Delta R.T. -0.023 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:278 Resp: 71054

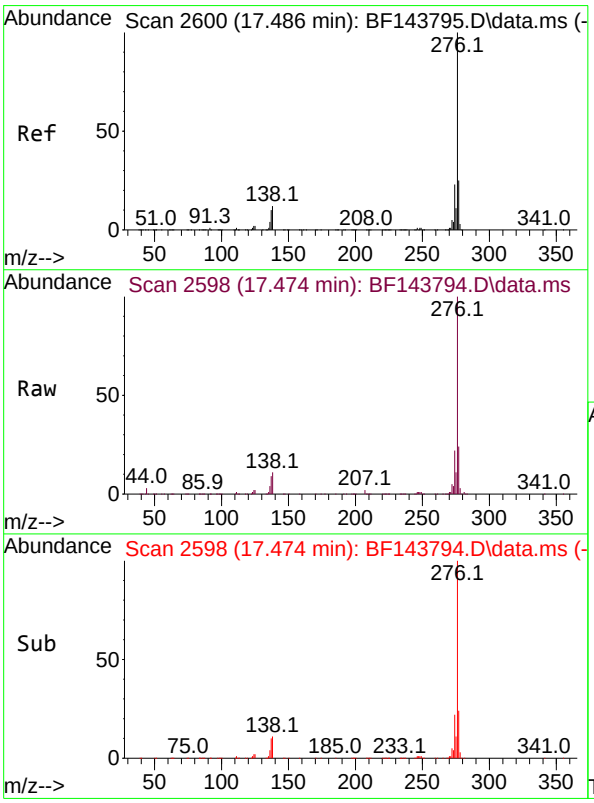
Ion	Ratio	Lower	Upper
278	100		
139	8.4	6.7	10.1
279	23.8	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations
APPROVED

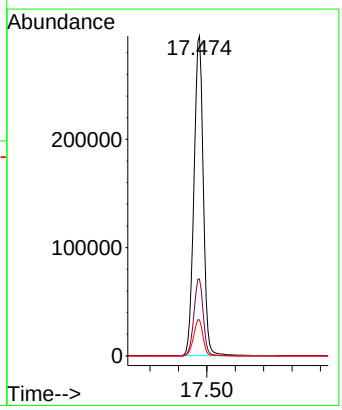
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025



#92
Benzo(g,h,i)perylene
Concen: 20.621 ng
RT: 17.474 min Scan# 2598
Delta R.T. -0.029 min
Lab File: BF143794.D
Acq: 23 Sep 2025 12:27

Tgt Ion:276 Resp: 673228

Ion	Ratio	Lower	Upper
276	100		
277	24.1	19.6	29.4
138	11.2	9.2	13.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143795.D
Acq On : 23 Sep 2025 13:59
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:06:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	113314	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	405913	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	195477	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	304940	20.000	ng	0.00
76) Chrysene-d12	14.057	240	365989	20.000	ng	0.00
86) Perylene-d12	15.539	264	525577	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.492	112	602322	85.545	ng	0.00
7) Phenol-d6	6.504	99	690438	83.097	ng	0.00
23) Nitrobenzene-d5	7.445	82	573383	88.897	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	256232	91.848	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1056299	79.854	ng	0.00
79) Terphenyl-d14	12.998	244	1496108	80.257	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.634	88	144938	43.417	ng	100
3) Pyridine	3.399	79	390716	43.360	ng	100
4) n-Nitrosodimethylamine	3.340	42	192963	42.707	ng	100
6) Aniline	6.545	93	486101	41.561	ng	100
8) 2-Chlorophenol	6.669	128	302589	42.379	ng	100
9) Benzaldehyde	6.434	77	332514	47.119	ng	100
10) Phenol	6.516	94	396049m	42.282	ng	
11) bis(2-Chloroethyl)ether	6.616	93	309829	42.197	ng	100
12) 1,3-Dichlorobenzene	6.828	146	350005	42.220	ng	100
13) 1,4-Dichlorobenzene	6.904	146	348233	42.092	ng	100
14) 1,2-Dichlorobenzene	7.057	146	328481	41.922	ng	100
15) Benzyl Alcohol	7.022	79	246535	42.340	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	732266	42.058	ng	100
17) 2-Methylphenol	7.128	107	231425	41.866	ng	100
18) Hexachloroethane	7.398	117	123042	42.290	ng	100
19) n-Nitroso-di-n-propyla...	7.292	70	207240	39.992	ng	100
20) 3+4-Methylphenols	7.281	107	288081	42.795	ng	100
22) Acetophenone	7.292	105	375588	42.128	ng	100
24) Nitrobenzene	7.463	77	315613	42.939	ng	100
25) Isophorone	7.704	82	546218	42.269	ng	100
26) 2-Nitrophenol	7.781	139	120369	40.347	ng	100
27) 2,4-Dimethylphenol	7.810	122	246324	42.648	ng	100
28) bis(2-Chloroethoxy)met...	7.916	93	354402	42.213	ng	100
29) 2,4-Dichlorophenol	8.022	162	242031	42.587	ng	100
30) 1,2,4-Trichlorobenzene	8.110	180	250976	42.554	ng	100
31) Naphthalene	8.192	128	814068	41.894	ng	100
32) Benzoic acid	7.892	122	114033	40.921	ng	100
33) 4-Chloroaniline	8.233	127	288280	42.217	ng	100
34) Hexachlorobutadiene	8.310	225	188867	42.957	ng	100
35) Caprolactam	8.586	113	60592	41.712	ng	100
36) 4-Chloro-3-methylphenol	8.710	107	224136	42.051	ng	100
37) 2-Methylnaphthalene	8.881	142	515616	41.614	ng	100
38) 1-Methylnaphthalene	8.981	142	496939	41.901	ng	100
40) 1,2,4,5-Tetrachloroben...	9.045	216	245432	41.605	ng	100
41) Hexachlorocyclopentadiene	9.033	237	163505	43.733	ng	100
43) 2,4,6-Trichlorophenol	9.157	196	164818	44.620	ng	100

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143795.D
Acq On : 23 Sep 2025 13:59
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Sep 23 17:06:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	165369	42.801	ng	100
46) 1,1'-Biphenyl	9.345	154	584522	41.309	ng	100
47) 2-Chloronaphthalene	9.369	162	474899	41.694	ng	100
48) 2-Nitroaniline	9.463	65	156231	45.383	ng	100
49) Acenaphthylene	9.786	152	660923	42.150	ng	100
50) Dimethylphthalate	9.639	163	502623	42.186	ng	100
51) 2,6-Dinitrotoluene	9.704	165	89151	45.543	ng	100
52) Acenaphthene	9.957	154	433748	42.036	ng	100
53) 3-Nitroaniline	9.869	138	110739	46.671	ng	100
54) 2,4-Dinitrophenol	9.975	184	24685	41.301	ng	100
55) Dibenzofuran	10.128	168	610393	41.833	ng	100
56) 4-Nitrophenol	10.016	139	81189	42.462	ng	100
57) 2,4-Dinitrotoluene	10.104	165	120114	41.745	ng	100
58) Fluorene	10.475	166	448265	41.324	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	145681	44.013	ng	100
60) Diethylphthalate	10.345	149	473302	42.438	ng	100
61) 4-Chlorophenyl-phenyle...	10.463	204	230643	41.729	ng	100
62) 4-Nitroaniline	10.480	138	103193	46.254	ng	100
63) Azobenzene	10.627	77	499929	42.532	ng	100
65) 4,6-Dinitro-2-methylph...	10.510	198	42447	40.163	ng	100
66) n-Nitrosodiphenylamine	10.580	169	416100	41.492	ng	100
67) 4-Bromophenyl-phenylether	10.957	248	219921	42.319	ng	100
68) Hexachlorobenzene	11.022	284	300364	41.941	ng	100
69) Atrazine	11.104	200	128423	44.222	ng	100
70) Pentachlorophenol	11.210	266	156073	43.781	ng	100
71) Phenanthrene	11.439	178	660040	42.160	ng	100
72) Anthracene	11.486	178	660736	42.075	ng	100
73) Carbazole	11.639	167	595454	43.368	ng	100
74) Di-n-butylphthalate	11.974	149	705755	44.694	ng	100
75) Fluoranthene	12.627	202	697899	44.322	ng	100
77) Benzidine	12.751	184	374182	41.956	ng	100
78) Pyrene	12.857	202	735401	40.870	ng	100
80) Butylbenzylphthalate	13.474	149	286527	46.027	ng	100
81) Benzo(a)anthracene	14.045	228	840188	42.732	ng	100
82) 3,3'-Dichlorobenzidine	14.010	252	363730	42.702	ng	100
83) Chrysene	14.086	228	744962	41.873	ng	100
84) Bis(2-ethylhexyl)phtha...	14.039	149	408417	44.759	ng	100
85) Di-n-octyl phthalate	14.651	149	741702	44.811	ng	100
87) Indeno(1,2,3-cd)pyrene	17.033	276	1690390	42.389	ng	100
88) Benzo(b)fluoranthene	15.104	252	1160651	43.365	ng	100
89) Benzo(k)fluoranthene	15.133	252	1144789	42.573	ng	100
90) Benzo(a)pyrene	15.474	252	1079512	42.908	ng	100
91) Dibenzo(a,h)anthracene	17.051	278	1399884	42.920	ng	100
92) Benzo(g,h,i)perylene	17.486	276	1344334	42.757	ng	100

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

ICAL Form

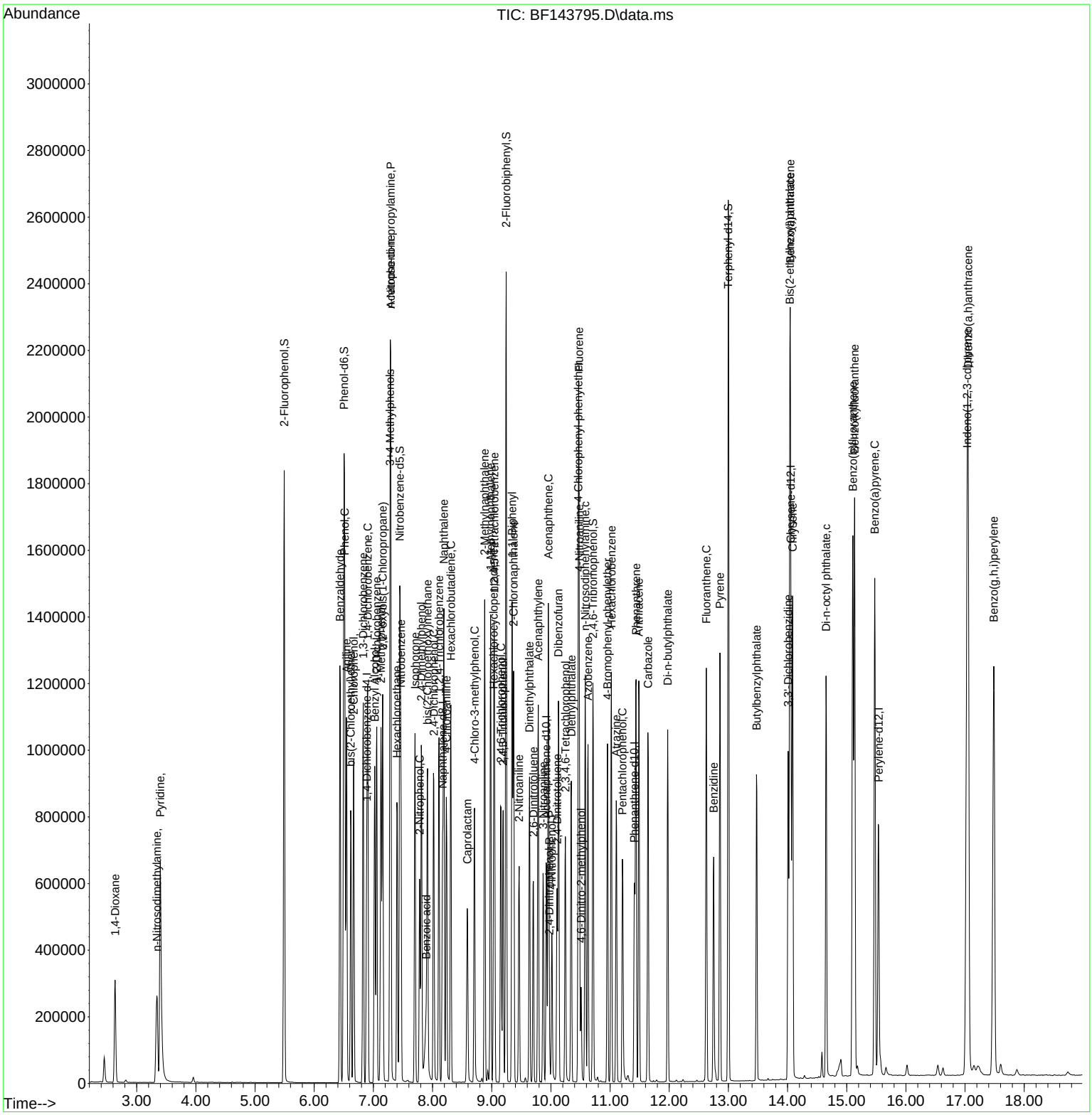
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143795.D
Acq On : 23 Sep 2025 13:59
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

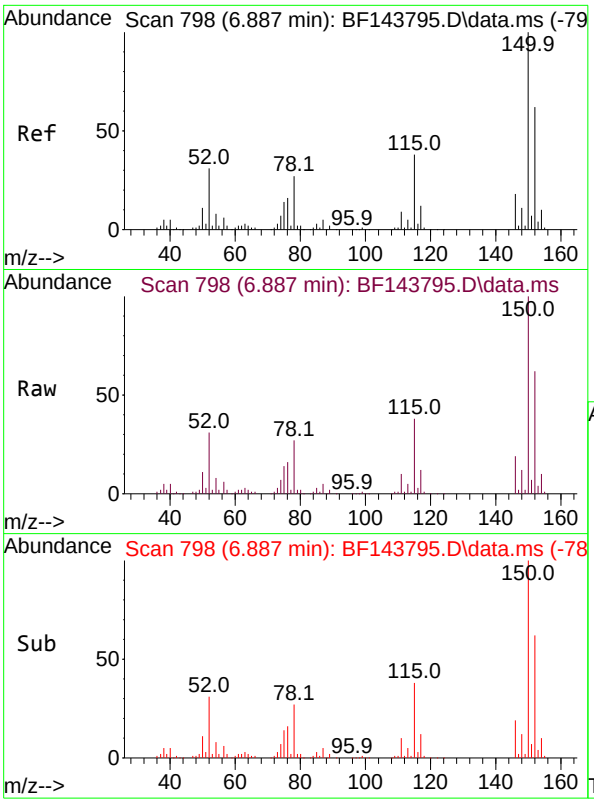
Quant Time: Sep 23 17:06:38 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

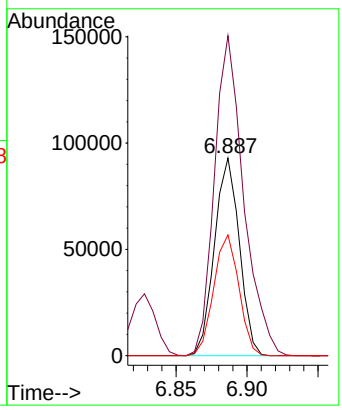




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 79
Delta R.T. -0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:152 Resp: 113314

Ion	Ratio	Lower	Upper
152	100		
150	162.0	129.6	194.4
115	61.2	49.0	73.4



Instrument :
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ClientSampleId :
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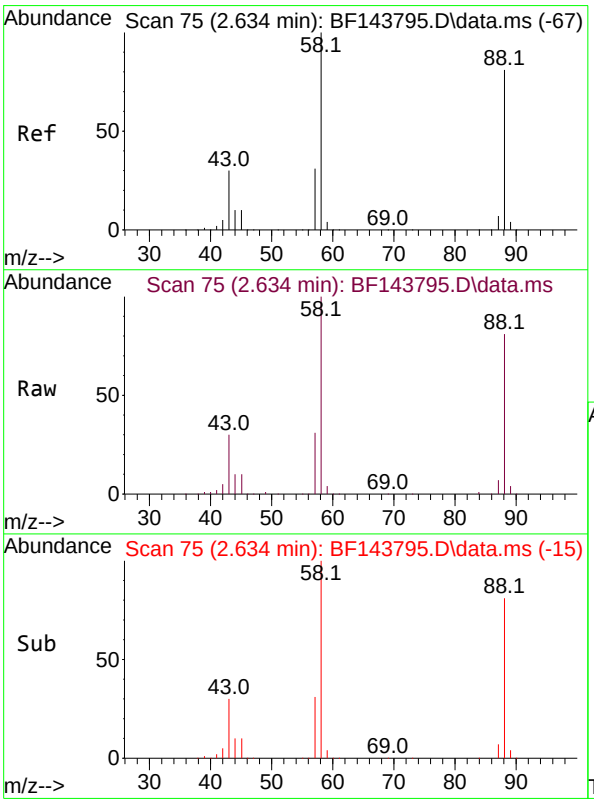
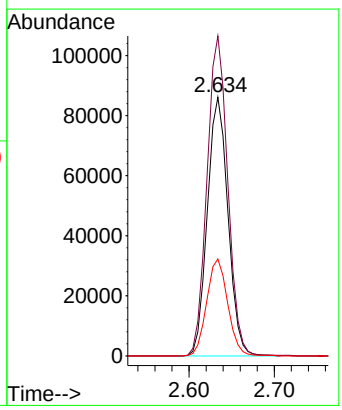
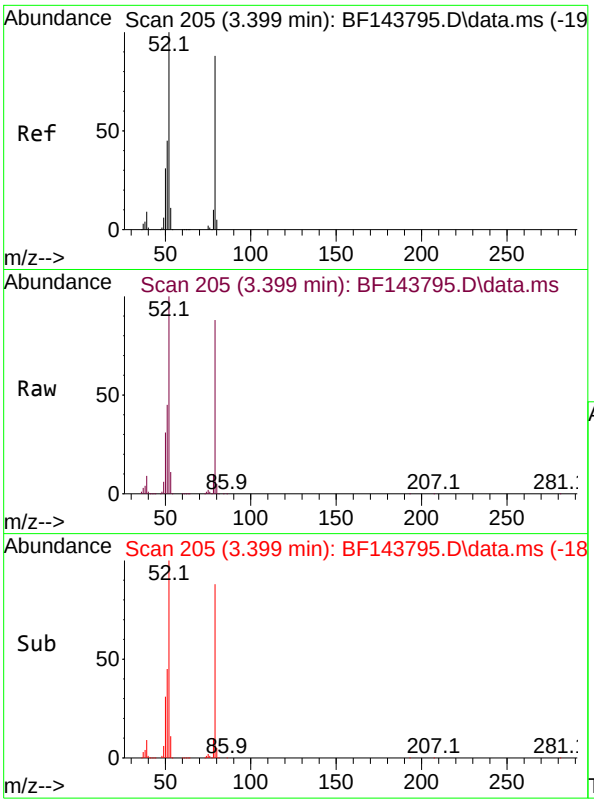


#2
1,4-Dioxane
Concen: 43.417 ng
RT: 2.634 min Scan# 75
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 88 Resp: 144938

Ion	Ratio	Lower	Upper
88	100		
58	124.3	99.4	149.2
43	38.2	30.6	45.8

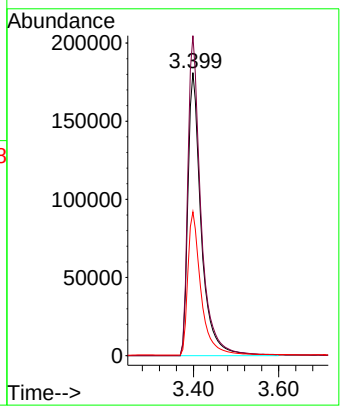




#3
Pyridine
Concen: 43.360 ng
RT: 3.399 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 79 Resp: 39071

Ion	Ratio	Lower	Upper
79	100		
52	113.1	90.5	135.7
51	50.8	40.6	61.0



Instrument :
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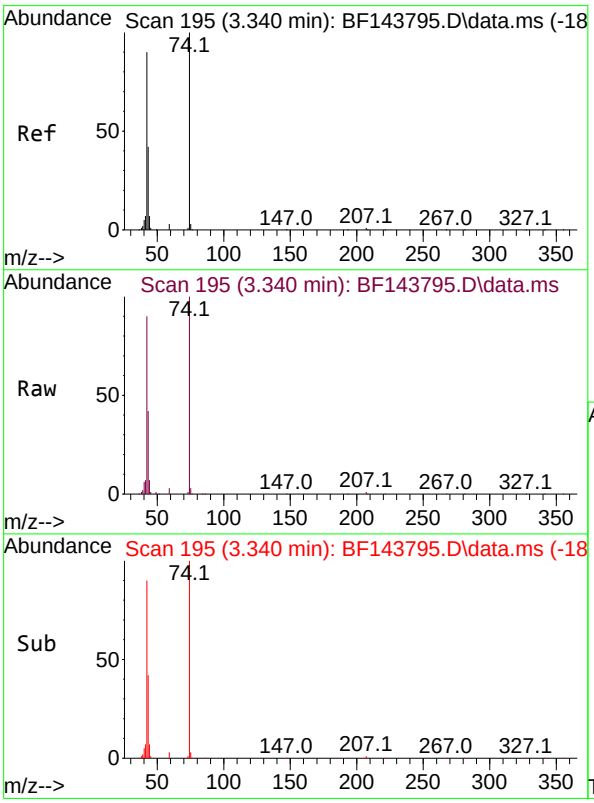
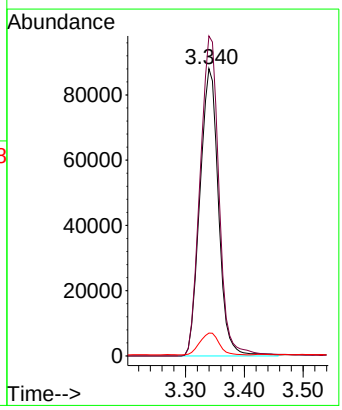
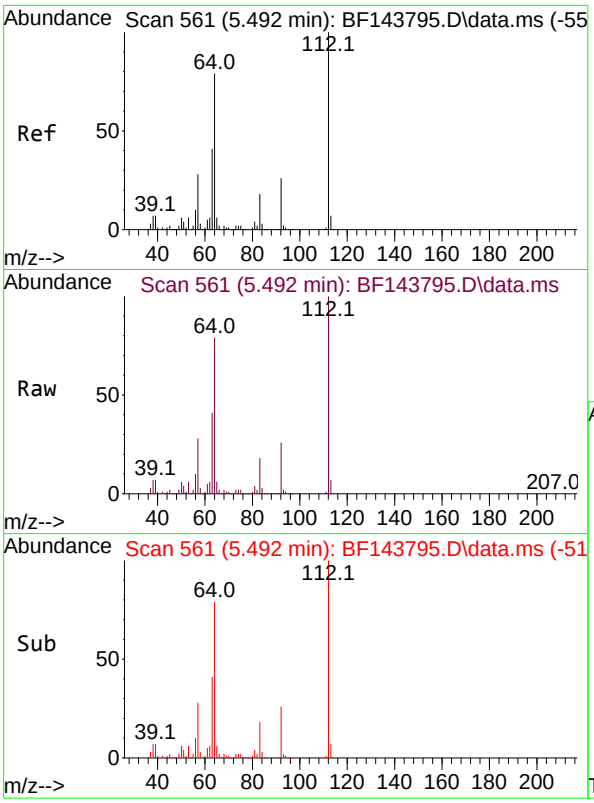


#4
n-Nitrosodimethylamine
Concen: 42.707 ng
RT: 3.340 min Scan# 195
Delta R.T. -0.018 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 42 Resp: 192963

Ion	Ratio	Lower	Upper
42	100		
74	111.4	89.1	133.7
44	8.0	6.4	9.6





#5
2-Fluorophenol
Concen: 85.545 ng
RT: 5.492 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:112 Resp: 60232

Ion	Ratio	Lower	Upper
112	100		
64	78.7	63.0	94.4
63	40.8	32.6	49.0

Instrument :
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ClientSampleId :
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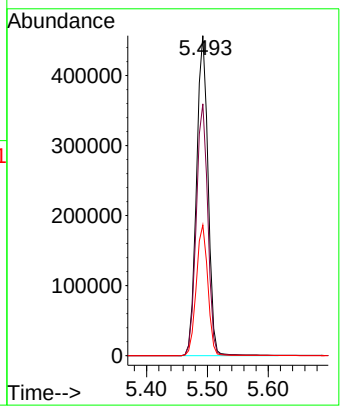
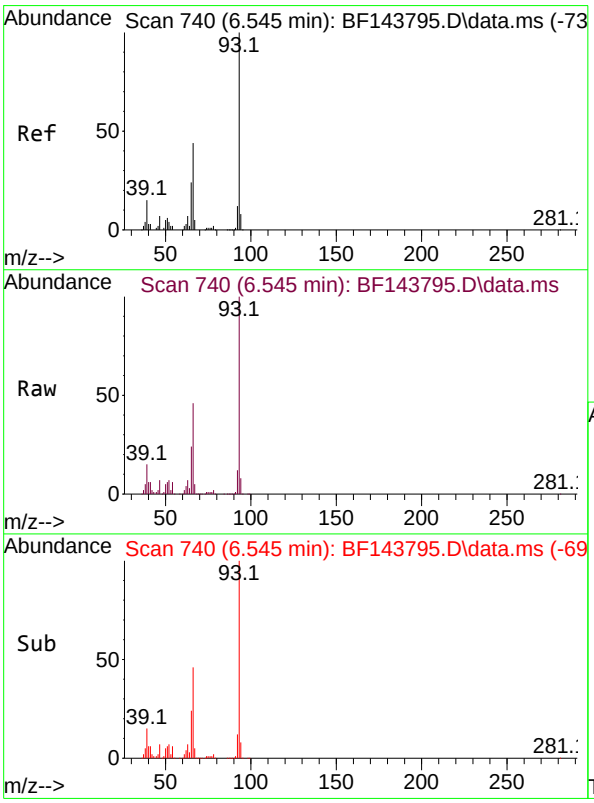
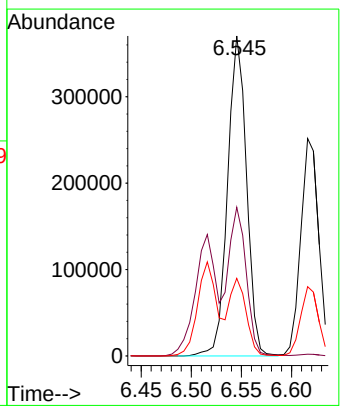


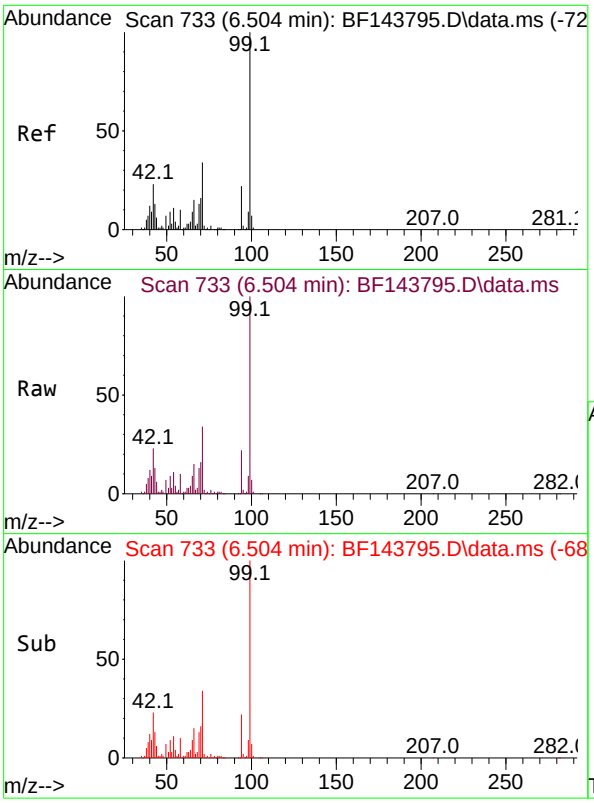


#6
Aniline
Concen: 41.561 ng
RT: 6.545 min Scan# 740
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 93 Resp: 486101

Ion	Ratio	Lower	Upper
93	100		
66	46.4	37.1	55.7
65	24.2	19.4	29.0

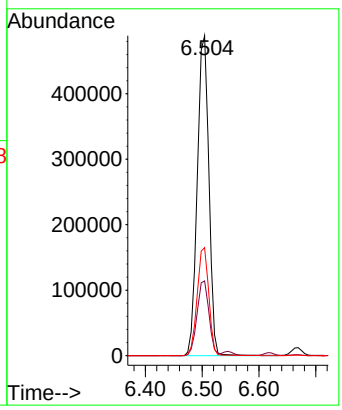




#7
Phenol-d6
Concen: 83.097 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 99 Resp: 690438

Ion	Ratio	Lower	Upper
99	100		
42	23.3	18.6	28.0
71	33.7	27.0	40.4



Instrument :
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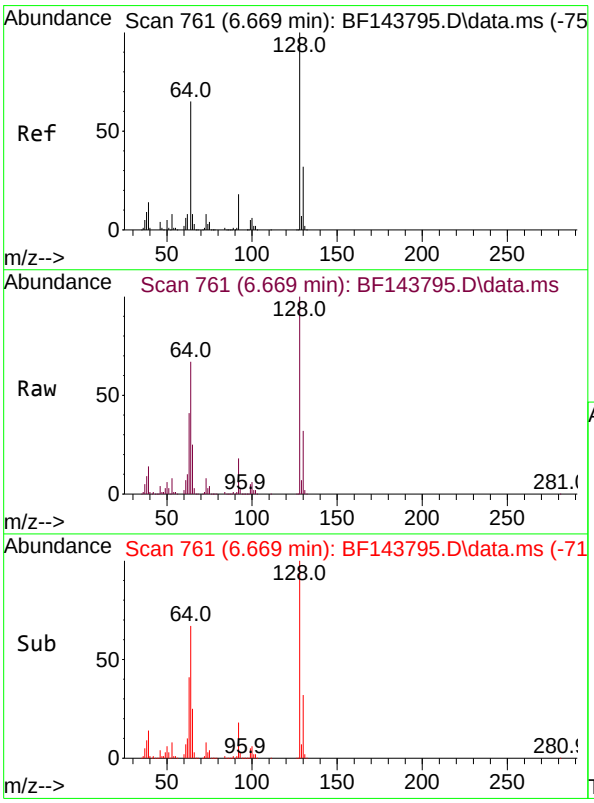
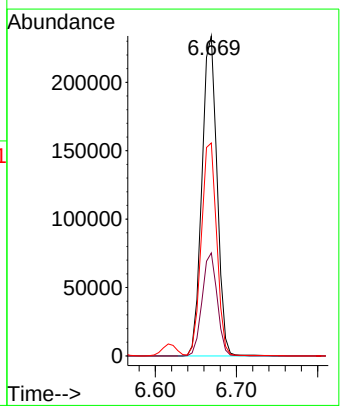
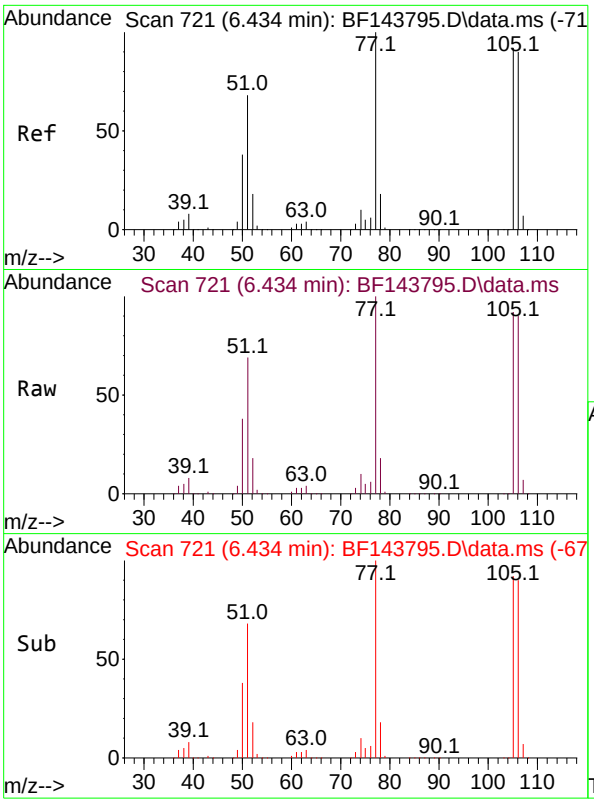


#8
2-Chlorophenol
Concen: 42.379 ng
RT: 6.669 min Scan# 761
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:128 Resp: 302589

Ion	Ratio	Lower	Upper
128	100		
130	32.2	12.2	52.2
64	66.5	46.5	86.5

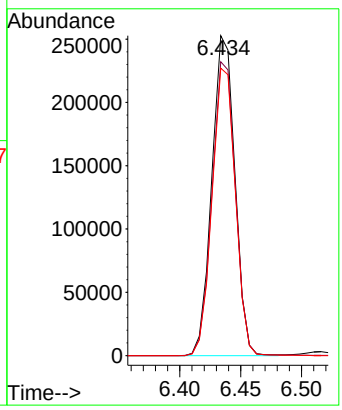




#9
Benzaldehyde
Concen: 47.119 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 77 Resp: 33251

Ion	Ratio	Lower	Upper
77	100		
105	91.8	71.8	111.8
106	89.8	69.8	109.8



Instrument :
BNA_F
ClientSampleId :
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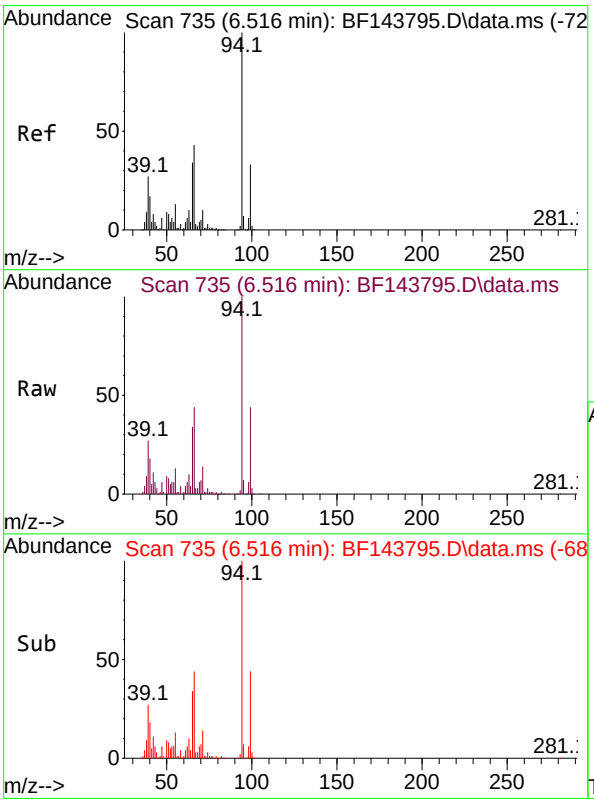
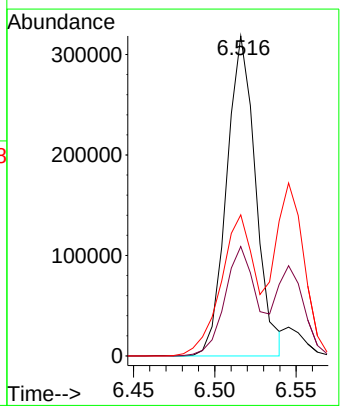
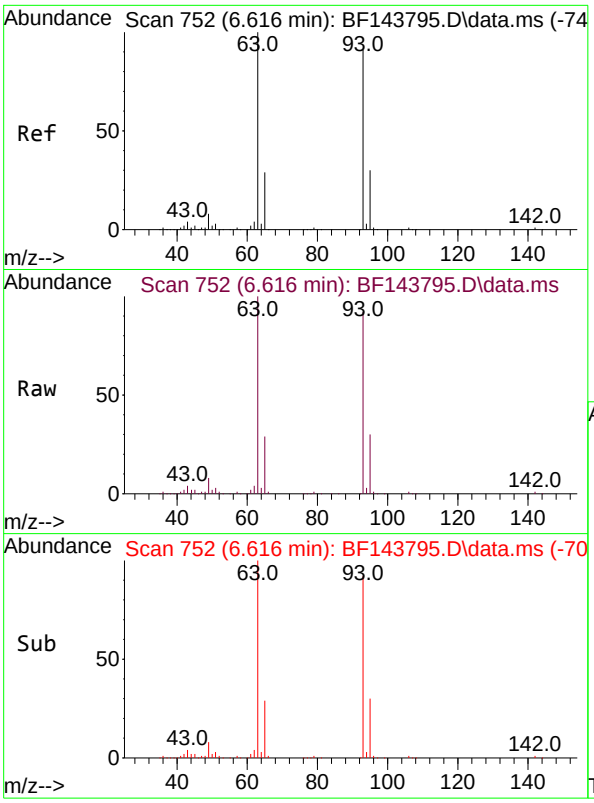


#10
Phenol
Concen: 42.282 ng m
RT: 6.516 min Scan# 735
Delta R.T. -0.012 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 94 Resp: 396049

Ion	Ratio	Lower	Upper
94	100		
65	34.2	14.2	54.2
66	44.1	24.1	64.1

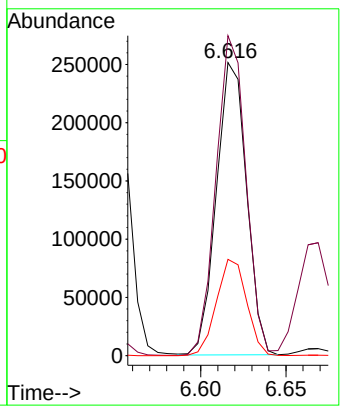




#11
bis(2-Chloroethyl)ether
Concen: 42.197 ng
RT: 6.616 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 93 Resp: 30982

Ion	Ratio	Lower	Upper
93	100		
63	109.2	89.2	129.2
95	32.9	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
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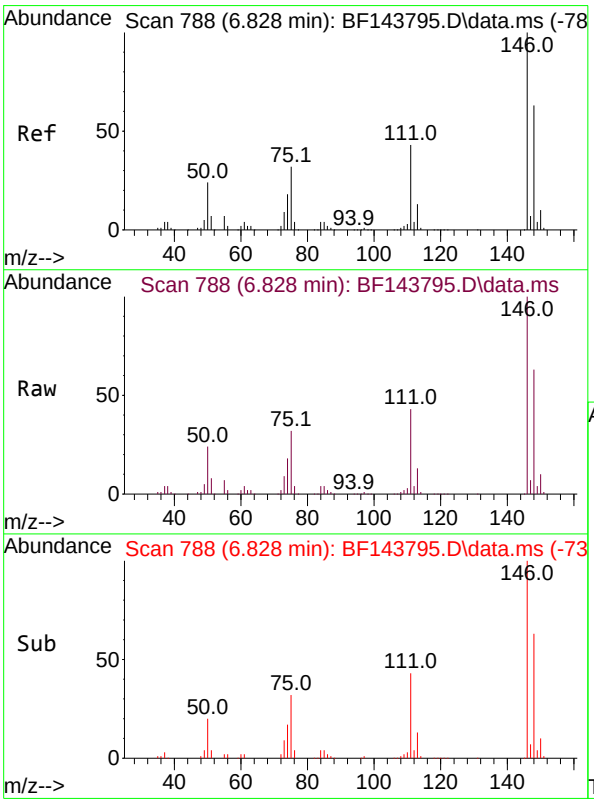
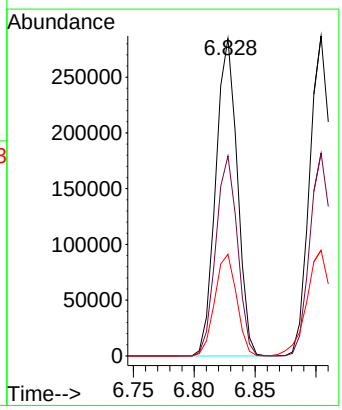
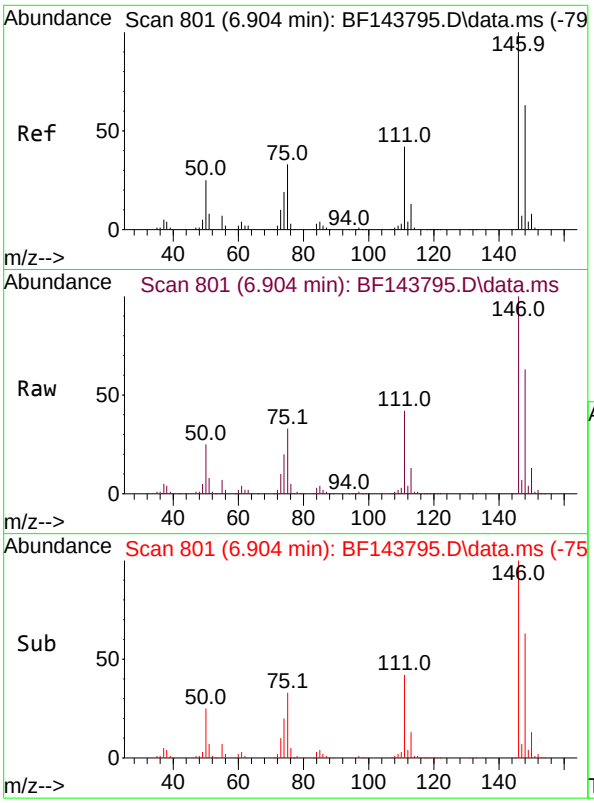


#12
1,3-Dichlorobenzene
Concen: 42.220 ng
RT: 6.828 min Scan# 788
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:146 Resp: 350005

Ion	Ratio	Lower	Upper
146	100		
148	63.0	50.4	75.6
75	32.0	25.6	38.4

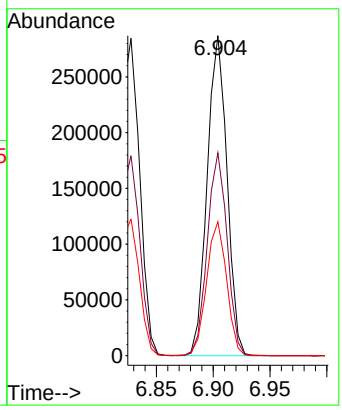




#13
1,4-Dichlorobenzene
Concen: 42.092 ng
RT: 6.904 min Scan# 80
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:146 Resp: 34823

Ion	Ratio	Lower	Upper
146	100		
148	63.4	50.7	76.1
111	41.8	33.4	50.2



Instrument :
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ClientSampleId :
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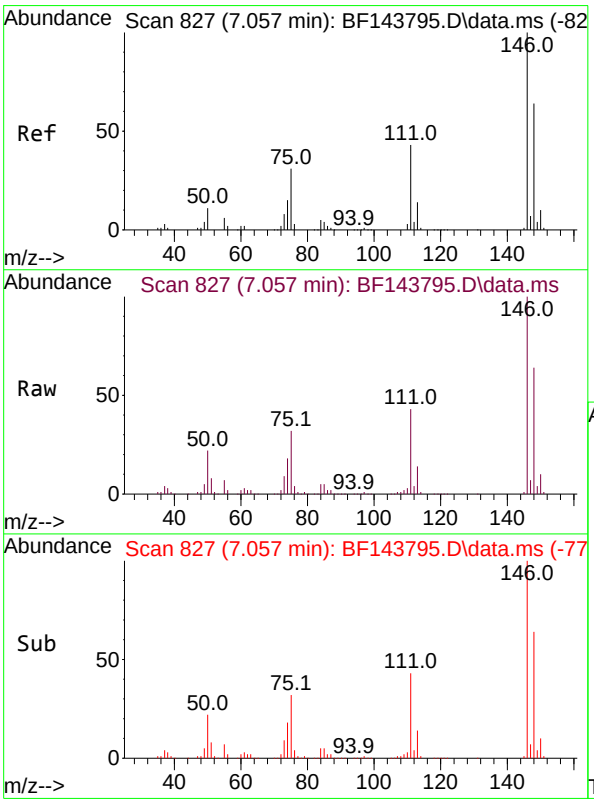
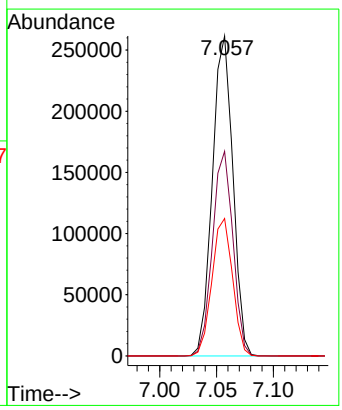
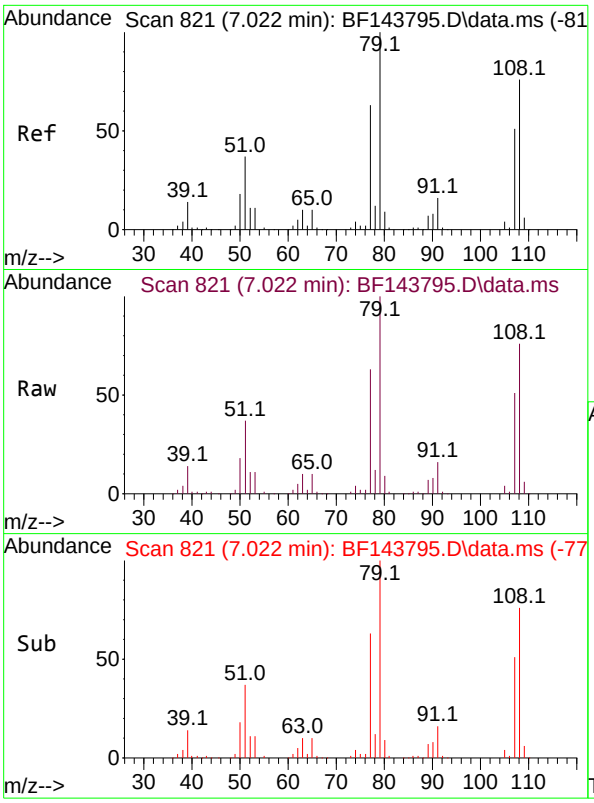


#14
1,2-Dichlorobenzene
Concen: 41.922 ng
RT: 7.057 min Scan# 827
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:146 Resp: 328481

Ion	Ratio	Lower	Upper
146	100		
148	63.9	51.1	76.7
111	42.9	34.3	51.5





#15
Benzyl Alcohol
Concen: 42.340 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 79 Resp: 24653

Ion	Ratio	Lower	Upper
79	100		
108	75.6	60.5	90.7
77	62.9	50.3	75.5

Instrument :
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ClientSampleId :
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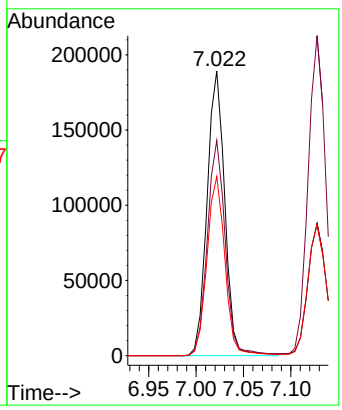
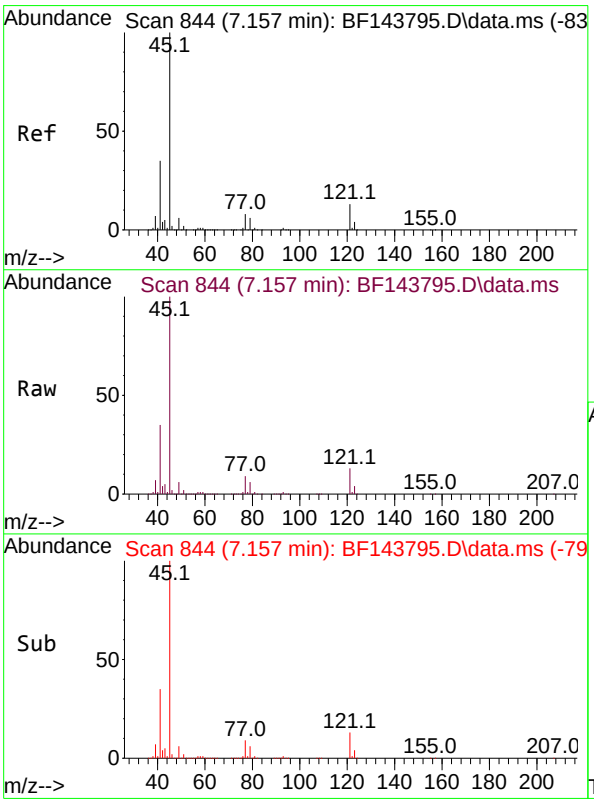
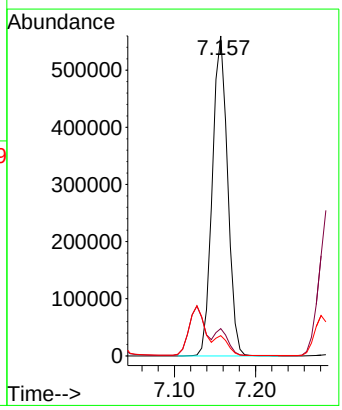


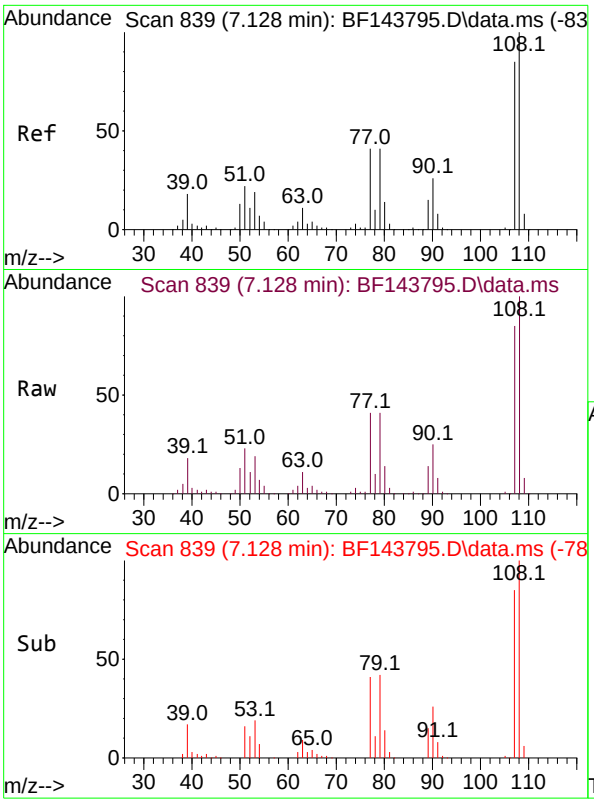


#16
2,2'-oxybis(1-Chloropropane)
Concen: 42.058 ng
RT: 7.157 min Scan# 844
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 45 Resp: 732266

Ion	Ratio	Lower	Upper
45	100		
77	8.5	0.0	28.5
79	6.3	0.0	26.3

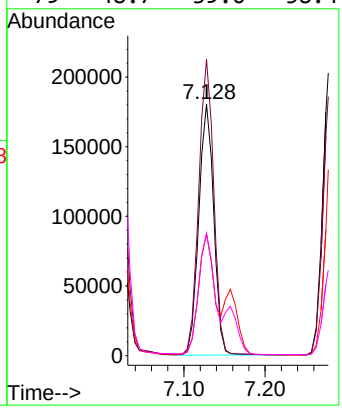




#17
2-Methylphenol
Concen: 41.866 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:107 Resp: 23142

Ion	Ratio	Lower	Upper
107	100		
108	117.8	94.2	141.4
77	48.3	38.6	58.0
79	48.7	39.0	58.4



Instrument :
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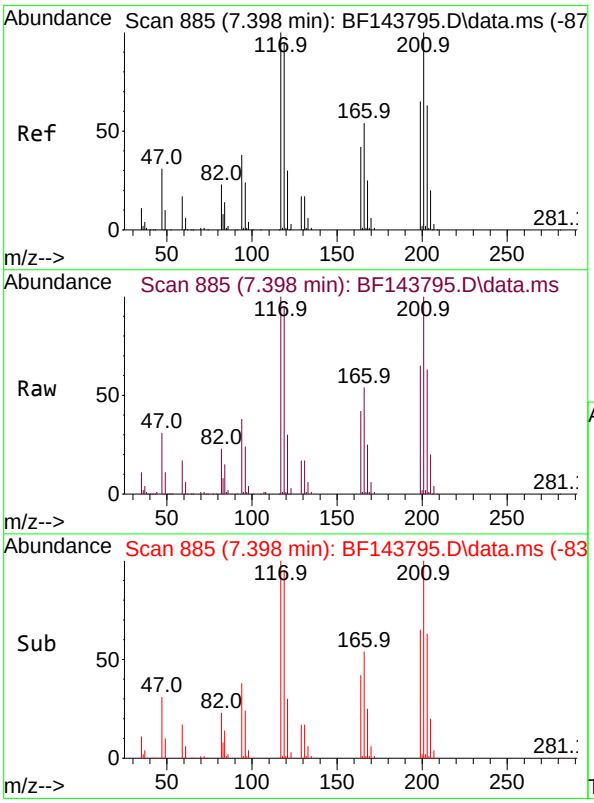
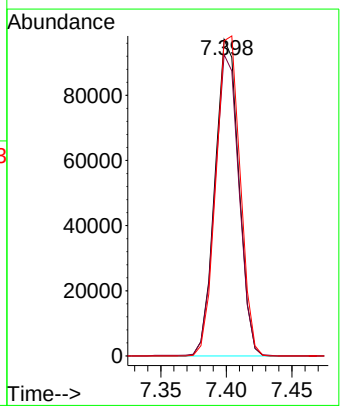
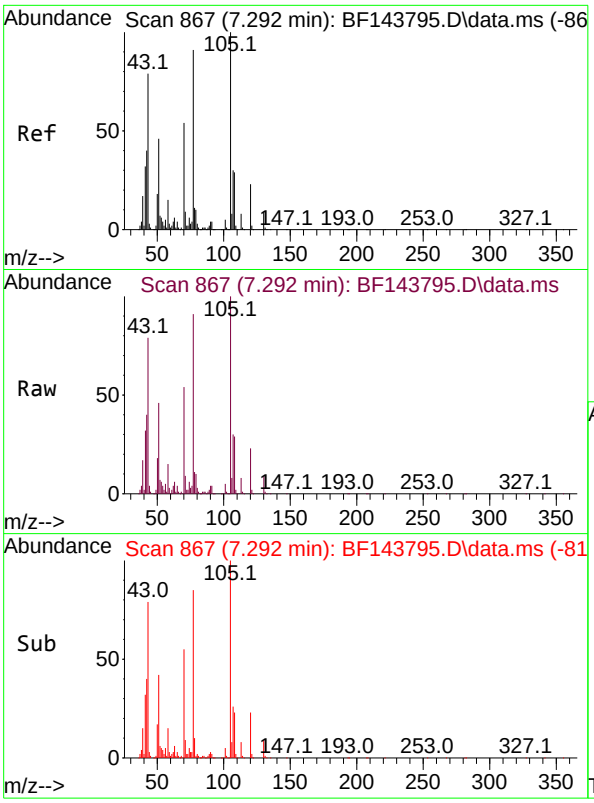


#18
Hexachloroethane
Concen: 42.290 ng
RT: 7.398 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:117 Resp: 123042

Ion	Ratio	Lower	Upper
117	100		
119	95.2	76.2	114.2
201	99.6	79.7	119.5

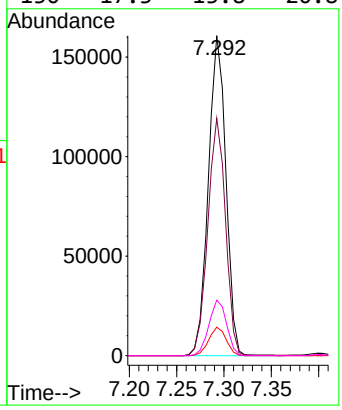




#19
n-Nitroso-di-n-propylamine
Concen: 39.992 ng
RT: 7.292 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 70 Resp: 20724

Ion	Ratio	Lower	Upper
70	100		
42	74.2	59.4	89.0
101	8.9	7.1	10.7
130	17.3	13.8	20.8



Instrument :
BNA_F
ClientSampleId :
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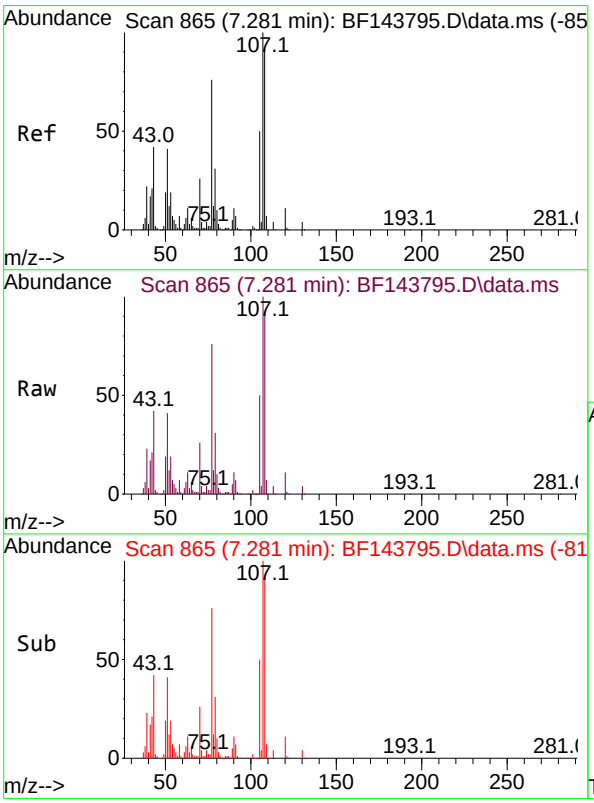
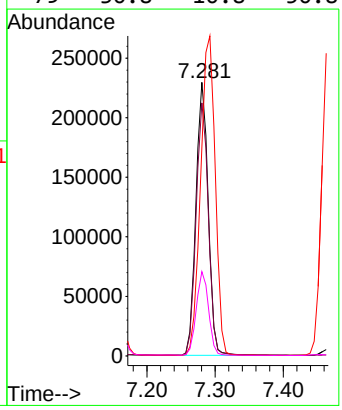
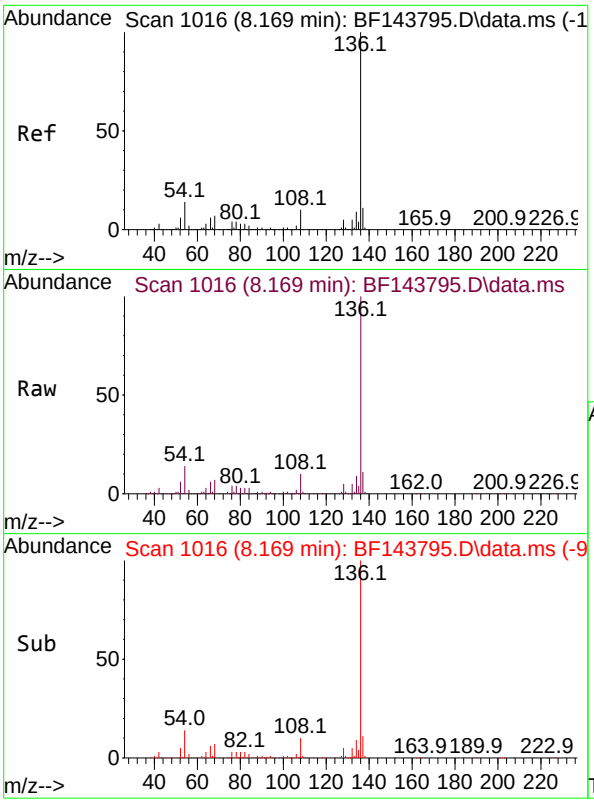


#20
3+4-Methylphenols
Concen: 42.795 ng
RT: 7.281 min Scan# 865
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:107 Resp: 288081

Ion	Ratio	Lower	Upper
107	100		
108	92.5	72.5	112.5
77	76.2	56.2	96.2
79	30.8	10.8	50.8

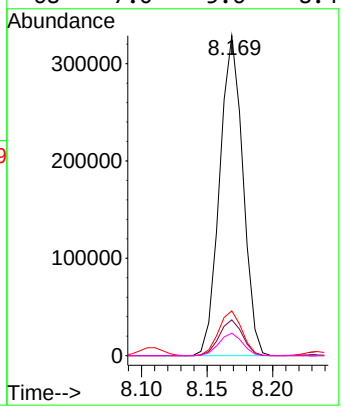




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:136 Resp: 40591

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	14.0	11.2	16.8
68	7.0	5.6	8.4



Instrument :
BNA_F
ClientSampleId :
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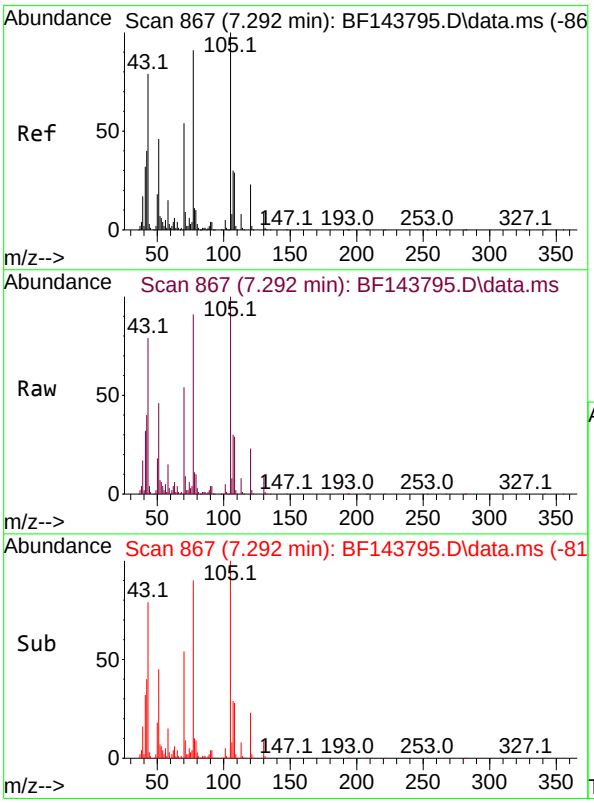
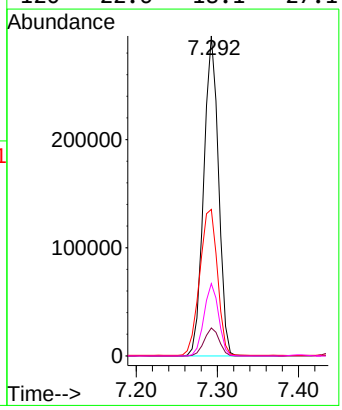
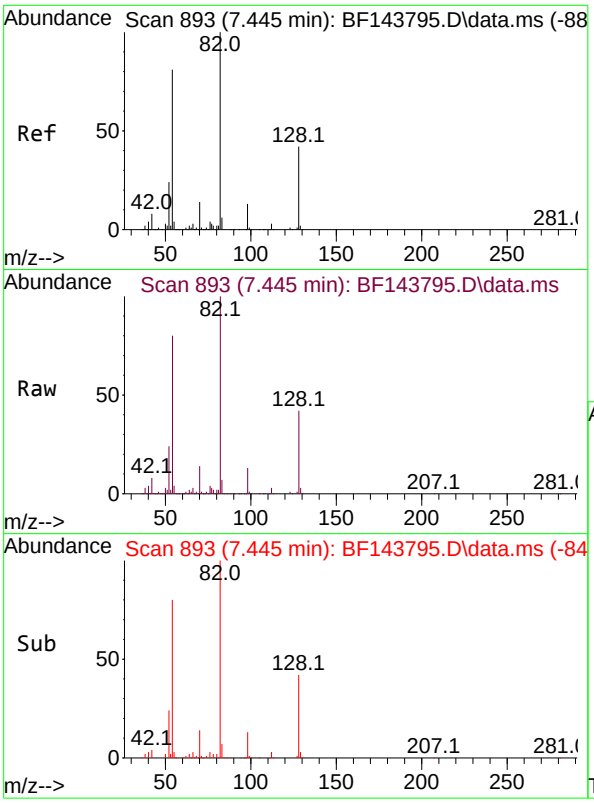


#22
Acetophenone
Concen: 42.128 ng
RT: 7.292 min Scan# 867
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:105 Resp: 375588

Ion	Ratio	Lower	Upper
105	100		
71	8.7	7.0	10.4
51	45.8	36.6	55.0
120	22.6	18.1	27.1

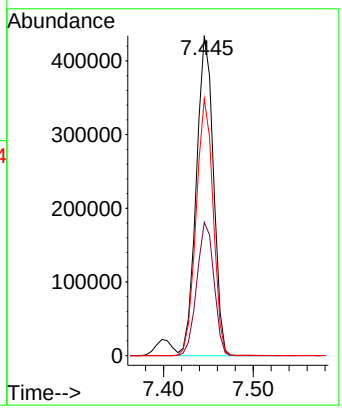




#23
Nitrobenzene-d5
Concen: 88.897 ng
RT: 7.445 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 82 Resp: 57338

Ion	Ratio	Lower	Upper
82	100		
128	41.6	33.3	49.9
54	80.3	64.2	96.4



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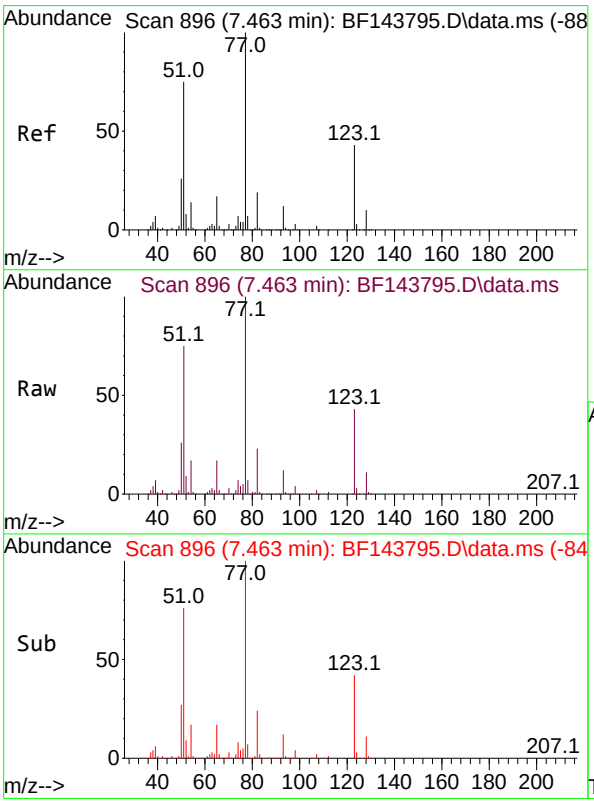
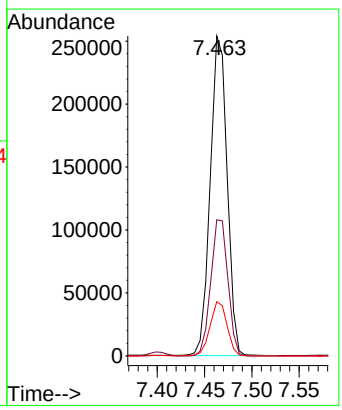
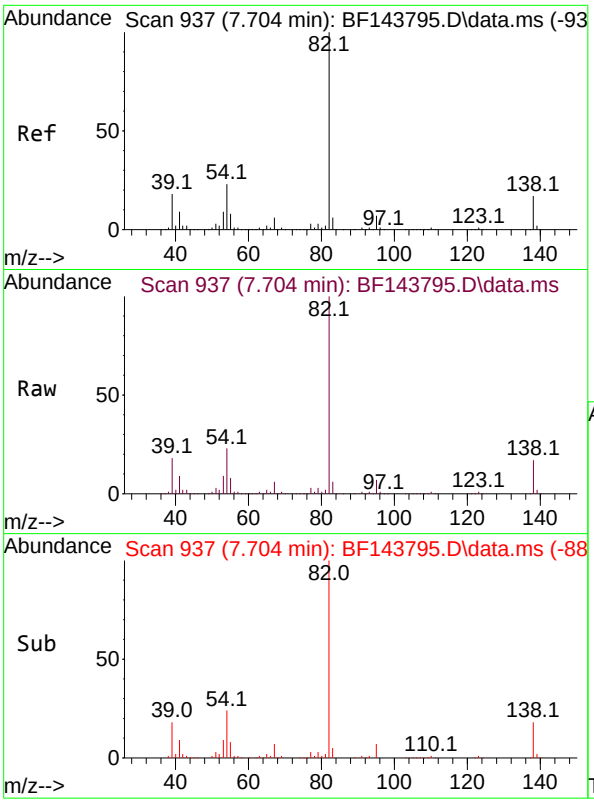


#24
Nitrobenzene
Concen: 42.939 ng
RT: 7.463 min Scan# 896
Delta R.T. -0.012 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 77 Resp: 315613

Ion	Ratio	Lower	Upper
77	100		
123	42.5	34.0	51.0
65	16.9	13.5	20.3

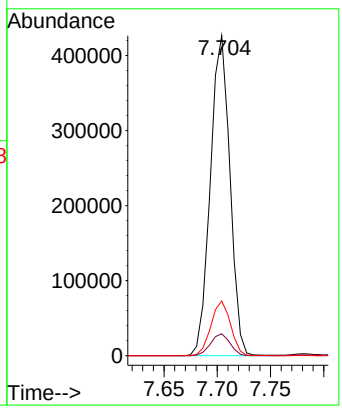




#25
Isophorone
Concen: 42.269 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 82 Resp: 54621

Ion	Ratio	Lower	Upper
82	100		
95	6.8	5.4	8.2
138	17.1	13.7	20.5



Instrument :
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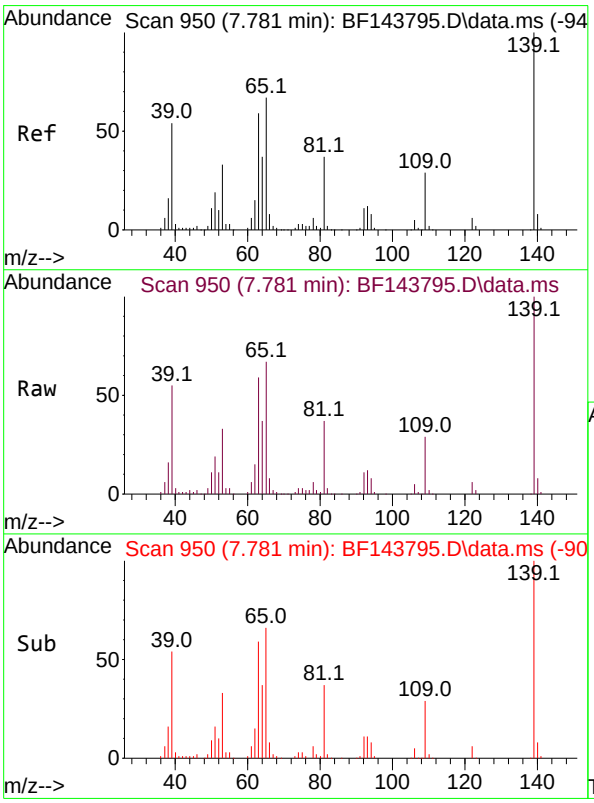
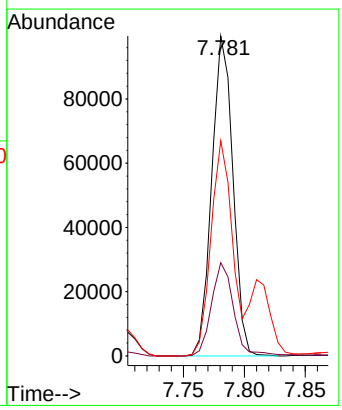
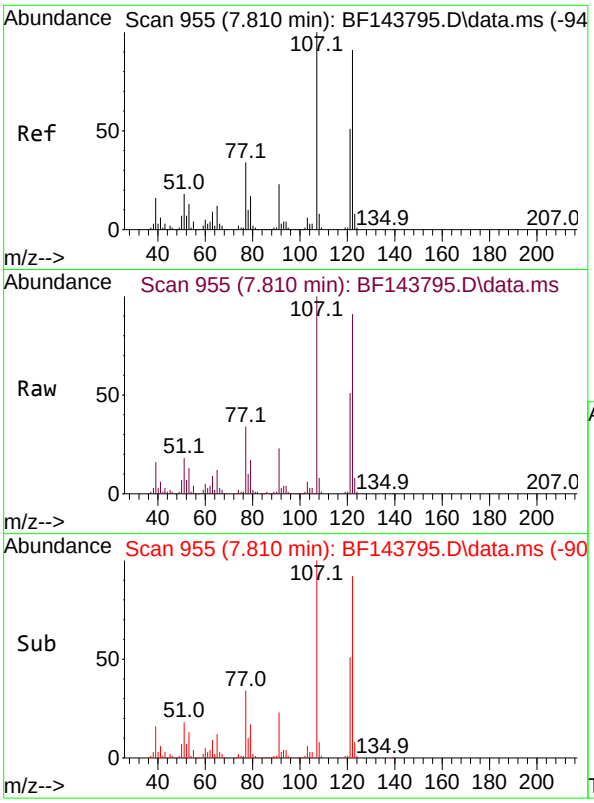


#26
2-Nitrophenol
Concen: 40.347 ng
RT: 7.781 min Scan# 950
Delta R.T. -0.005 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:139 Resp: 120369

Ion	Ratio	Lower	Upper
139	100		
109	29.1	23.3	34.9
65	67.2	53.8	80.6

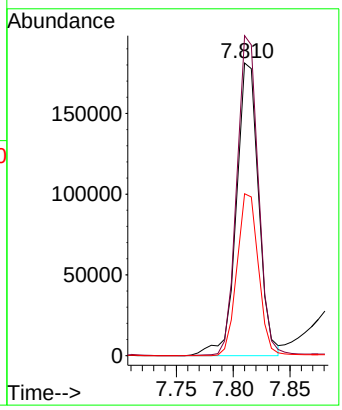




#27
2,4-Dimethylphenol
Concen: 42.648 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:122 Resp: 24632

Ion	Ratio	Lower	Upper
122	100		
107	109.4	87.5	131.3
121	55.3	44.2	66.4



Instrument :
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ClientSampleId :
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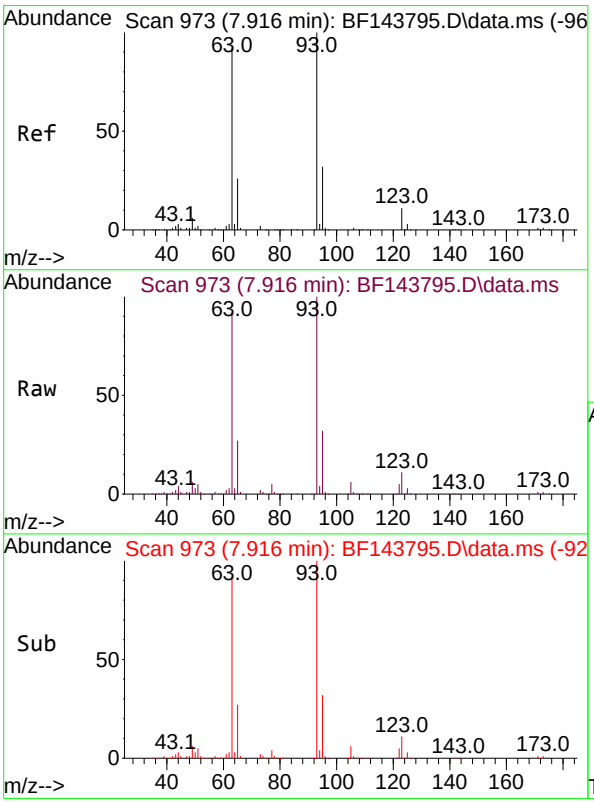
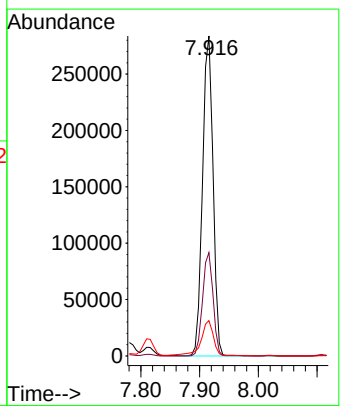
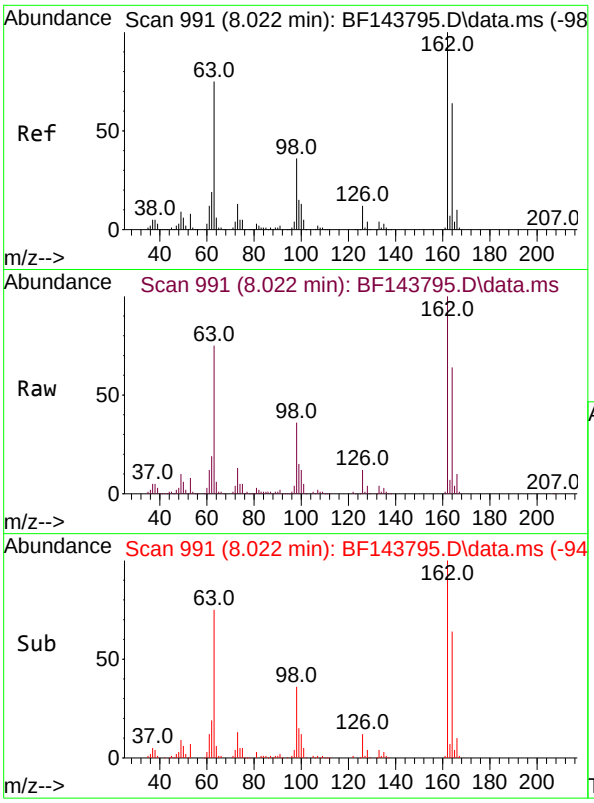


#28
bis(2-Chloroethoxy)methane
Concen: 42.213 ng
RT: 7.916 min Scan# 973
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 93 Resp: 354402

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.8	38.8
123	11.0	8.8	13.2





#29
2,4-Dichlorophenol
Concen: 42.587 ng
RT: 8.022 min Scan# 99
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:162 Resp: 24203

Ion	Ratio	Lower	Upper
162	100		
164	64.1	44.1	84.1
98	35.8	15.8	55.8

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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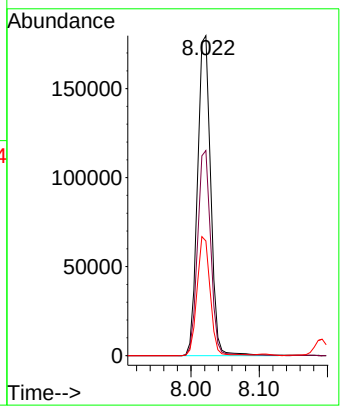
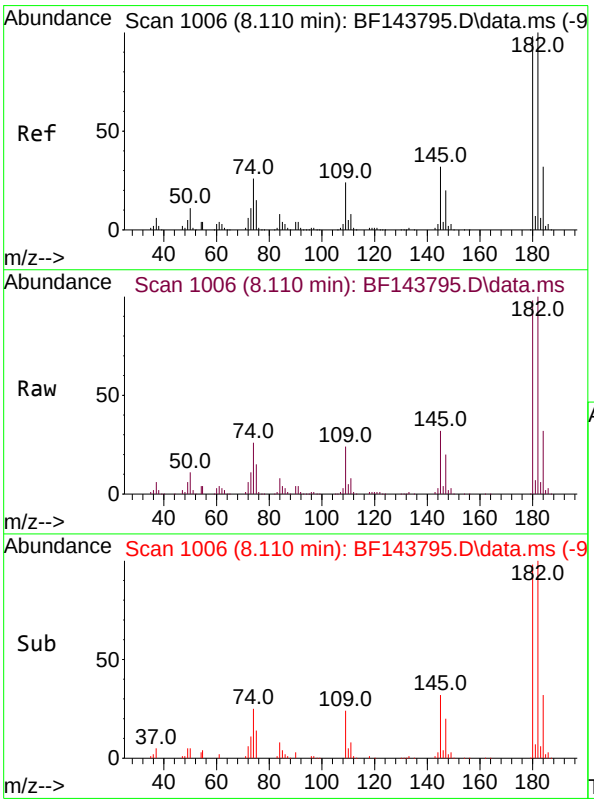
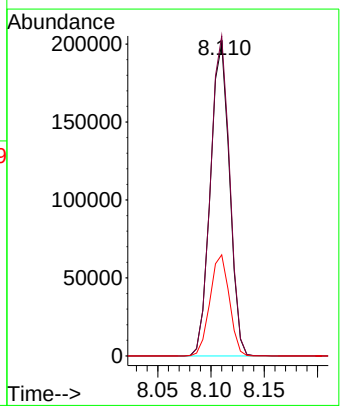


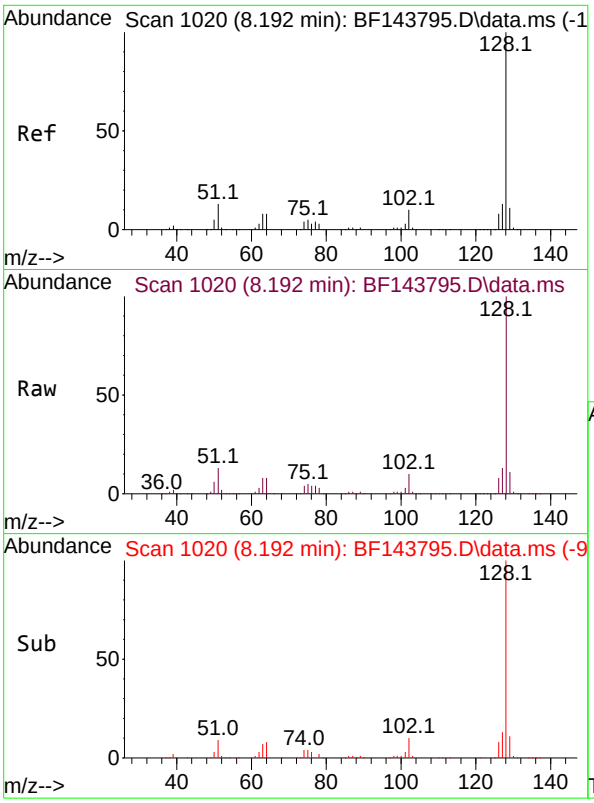


#30
1,2,4-Trichlorobenzene
Concen: 42.554 ng
RT: 8.110 min Scan# 1006
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:180 Resp: 250976

Ion	Ratio	Lower	Upper
180	100		
182	102.5	82.0	123.0
145	32.4	25.9	38.9

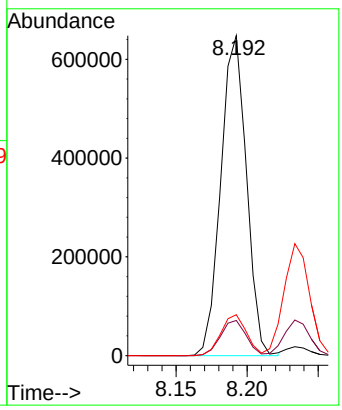




#31
Naphthalene
Concen: 41.894 ng
RT: 8.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:128 Resp: 81406

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	12.8	10.2	15.4



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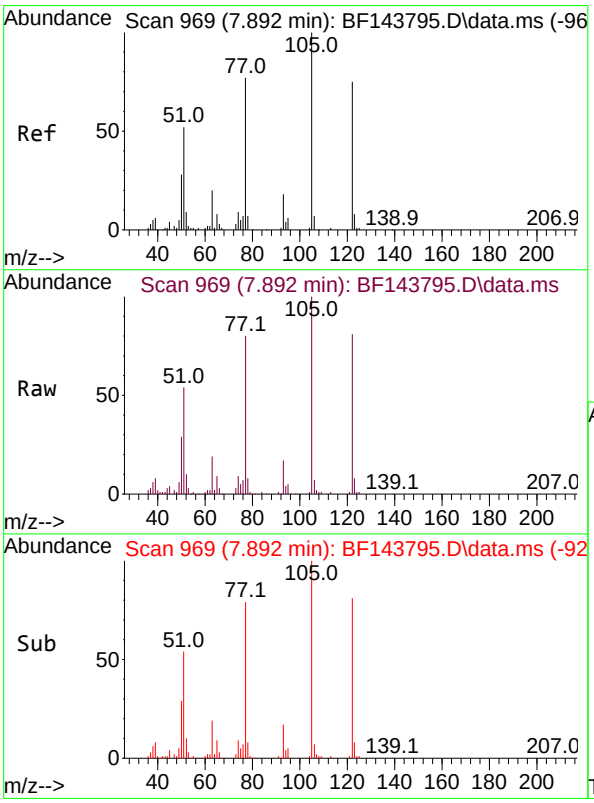
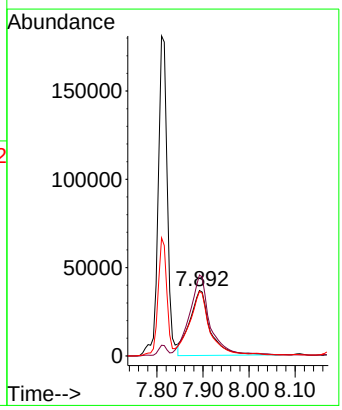
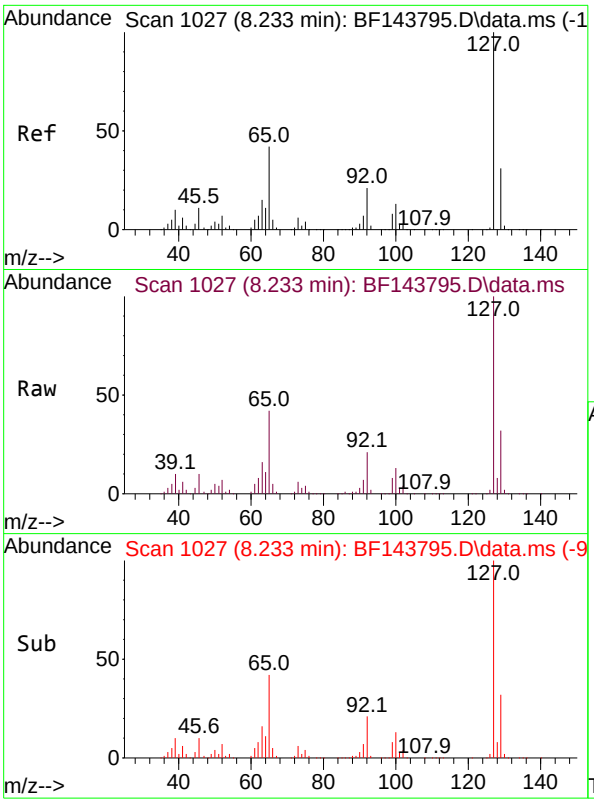


#32
Benzoic acid
Concen: 40.921 ng
RT: 7.892 min Scan# 969
Delta R.T. -0.029 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:122 Resp: 114033

Ion	Ratio	Lower	Upper
122	100		
105	123.7	103.7	143.7
77	98.8	78.8	118.8

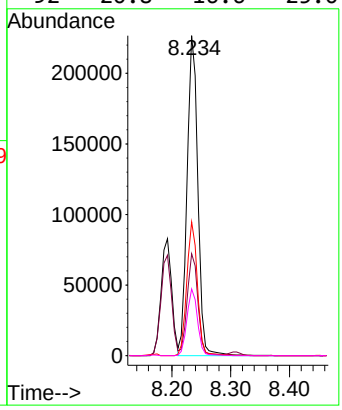




#33
4-Chloroaniline
Concen: 42.217 ng
RT: 8.233 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:127 Resp: 28828

Ion	Ratio	Lower	Upper
127	100		
129	31.8	25.4	38.2
65	41.8	33.4	50.2
92	20.8	16.6	25.0



Instrument :
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ClientSampleId :
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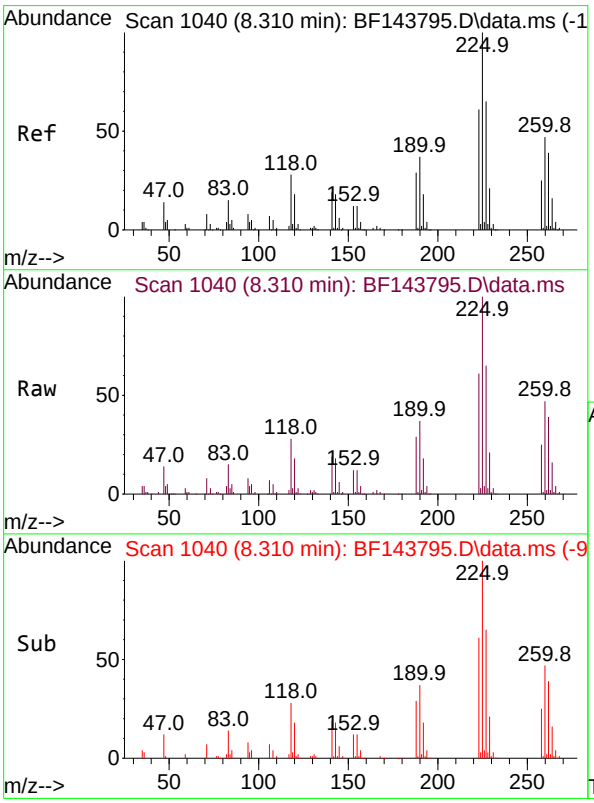
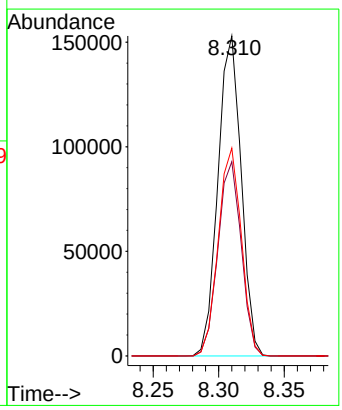
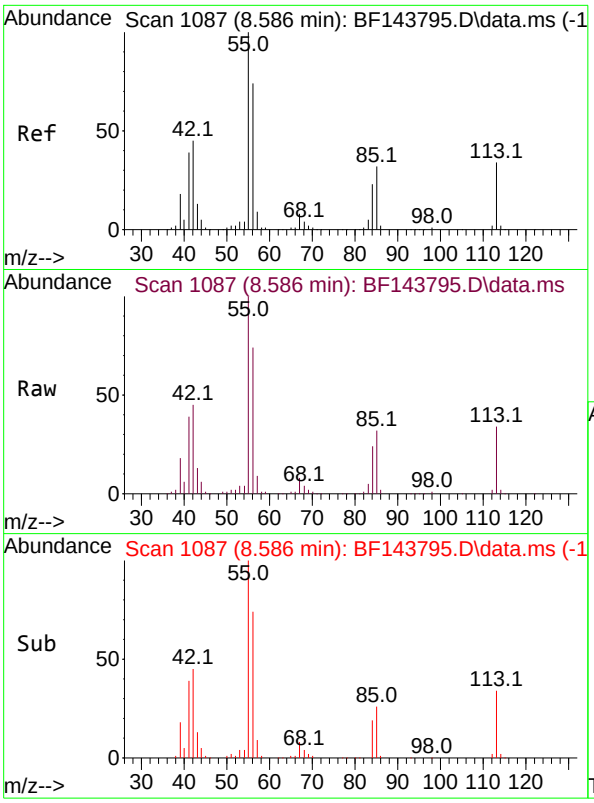


#34
Hexachlorobutadiene
Concen: 42.957 ng
RT: 8.310 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:225 Resp: 188867

Ion	Ratio	Lower	Upper
225	100		
223	60.7	48.6	72.8
227	64.9	51.9	77.9

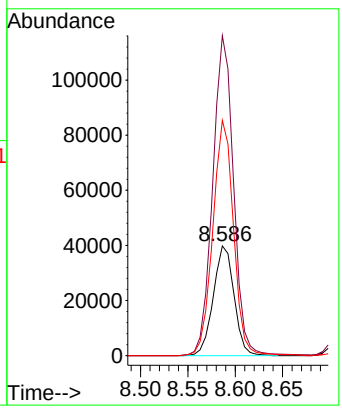




#35
Caprolactam
Concen: 41.712 ng
RT: 8.586 min Scan# 1
Delta R.T. -0.024 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:113 Resp: 6059

Ion	Ratio	Lower	Upper
113	100		
55	291.7	271.7	311.7
56	214.5	194.5	234.5



Instrument :
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ClientSampleId :
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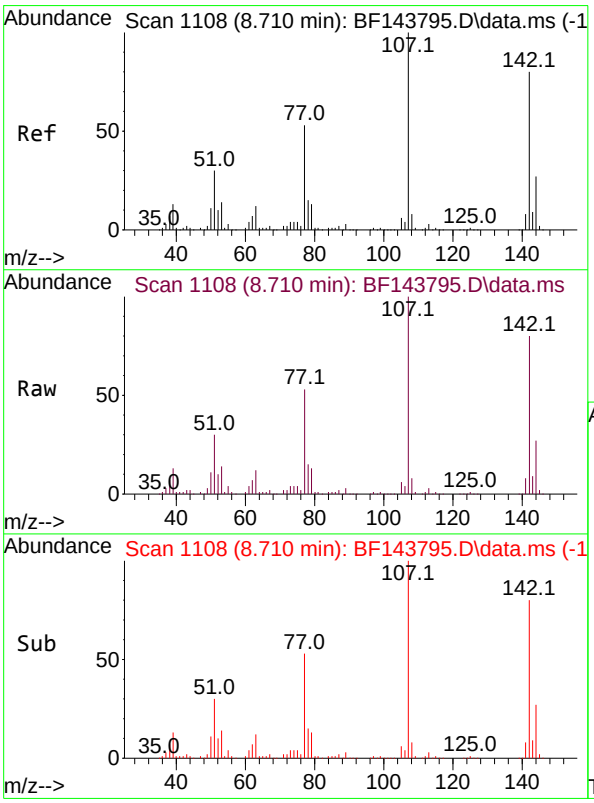
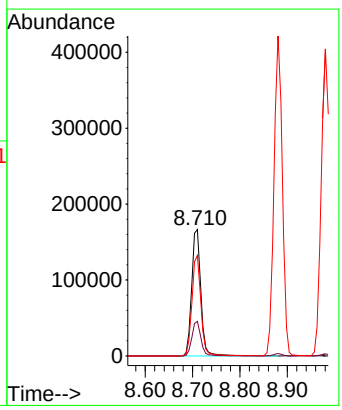
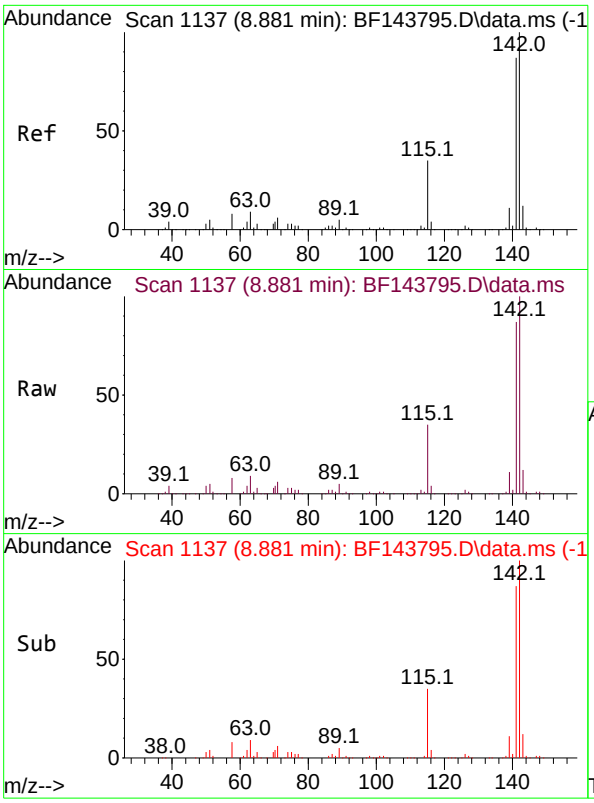


#36
4-Chloro-3-methylphenol
Concen: 42.051 ng
RT: 8.710 min Scan# 1108
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:107 Resp: 224136

Ion	Ratio	Lower	Upper
107	100		
144	27.3	21.8	32.8
142	79.5	63.6	95.4





#37
2-Methylnaphthalene
Concen: 41.614 ng
RT: 8.881 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:142 Resp: 51561

Ion	Ratio	Lower	Upper
142	100		
141	86.7	69.4	104.0

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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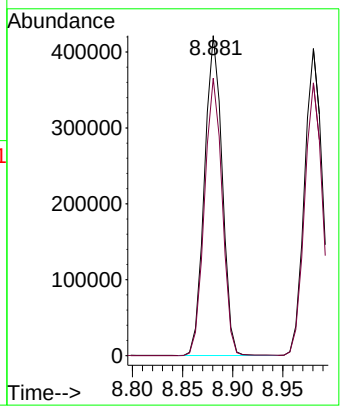
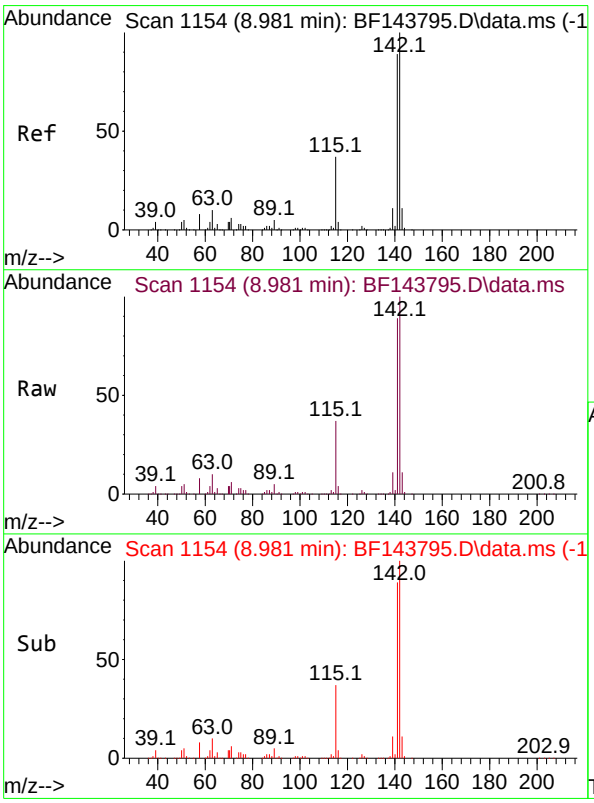
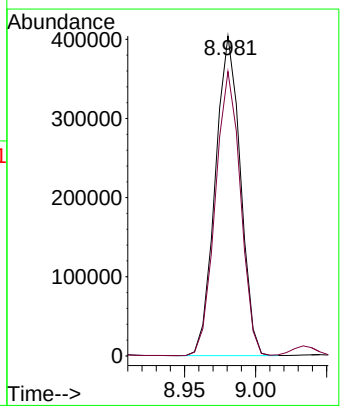


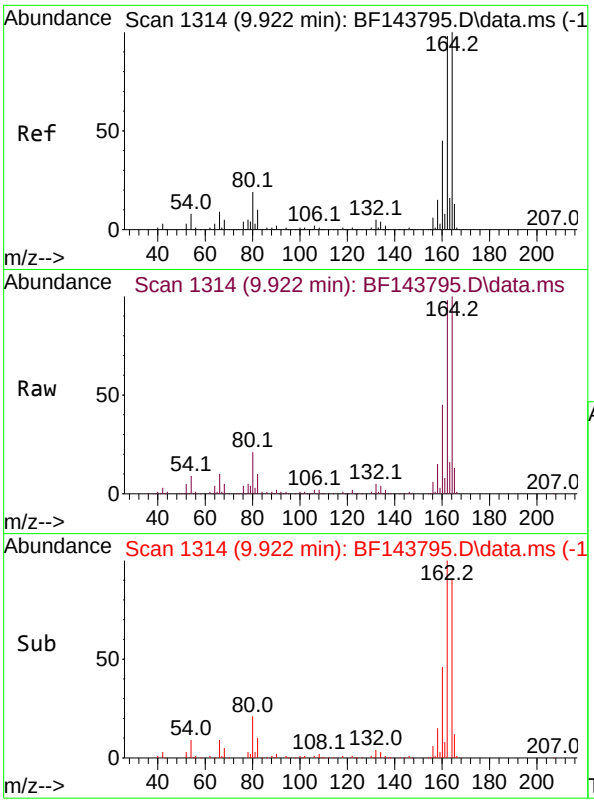


#38
1-Methylnaphthalene
Concen: 41.901 ng
RT: 8.981 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:142 Resp: 496939

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.1	106.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:164 Resp: 19547

Ion	Ratio	Lower	Upper
164	100		
162	98.5	78.8	118.2
160	44.7	35.8	53.6

Instrument :
BNA_F
ClientSampleId :
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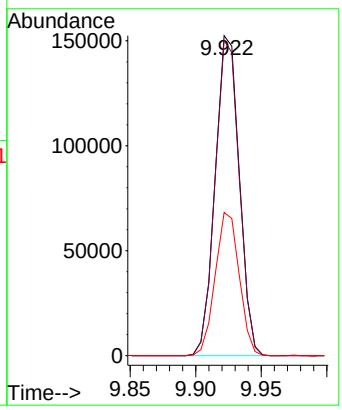
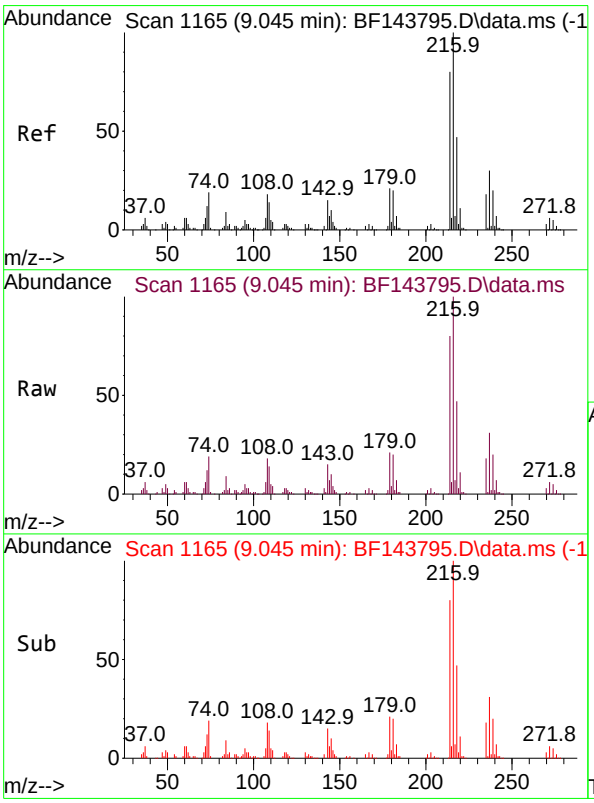
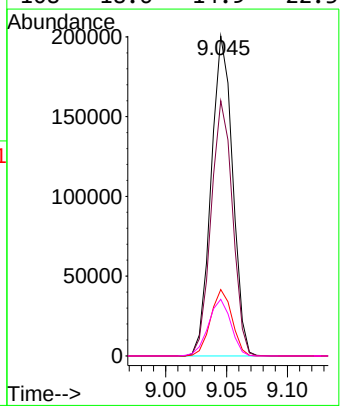


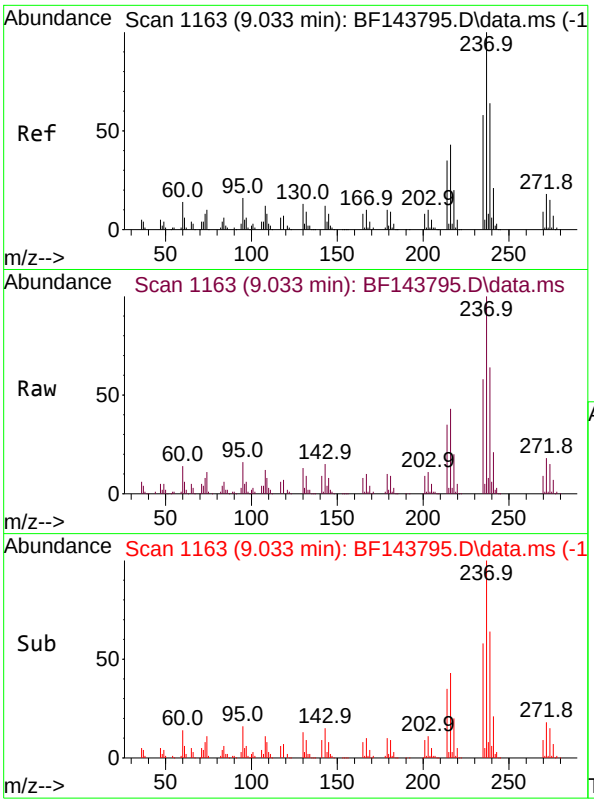


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.605 ng
RT: 9.045 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:216 Resp: 245432

Ion	Ratio	Lower	Upper
216	100		
214	79.6	63.7	95.5
179	20.6	16.5	24.7
108	18.6	14.9	22.3

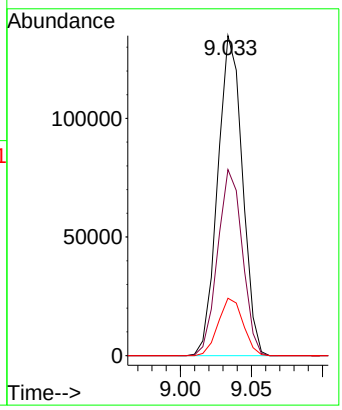




#41
Hexachlorocyclopentadiene
Concen: 43.733 ng
RT: 9.033 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:237 Resp: 16350

Ion	Ratio	Lower	Upper
237	100		
235	58.1	38.1	78.1
272	17.9	0.0	37.9



Instrument :
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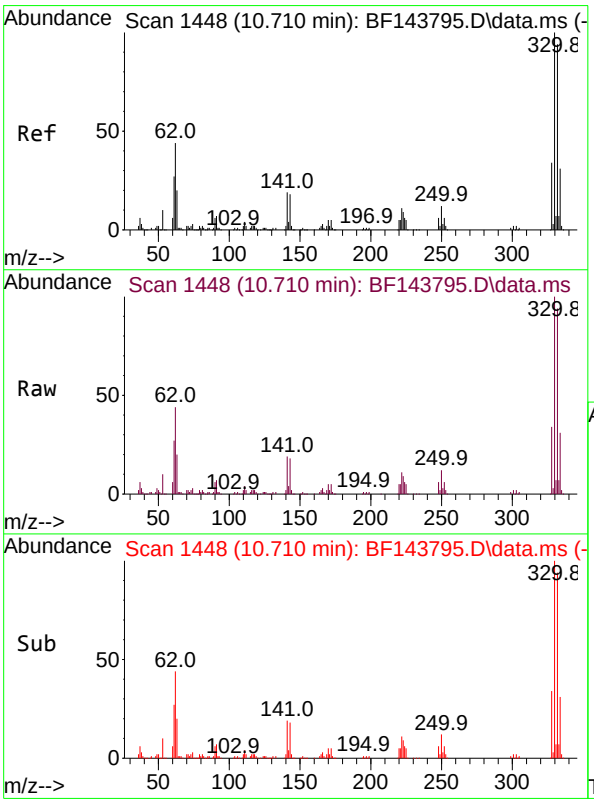
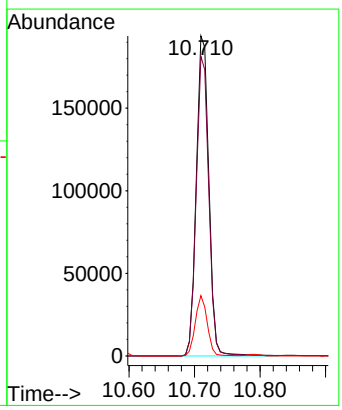
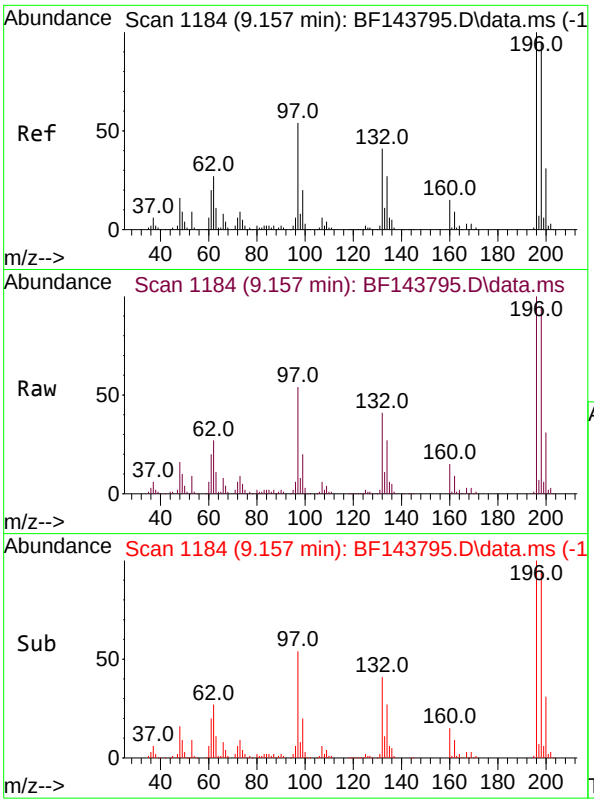


#42
2,4,6-Tribromophenol
Concen: 91.848 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:330 Resp: 256232

Ion	Ratio	Lower	Upper
330	100		
332	93.4	74.7	112.1
141	17.9	14.3	21.5

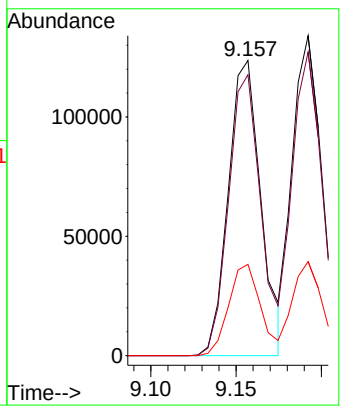




#43
2,4,6-Trichlorophenol
Concen: 44.620 ng
RT: 9.157 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:196 Resp: 16481

Ion	Ratio	Lower	Upper
196	100		
198	95.2	76.2	114.2
200	30.9	24.7	37.1



Instrument :
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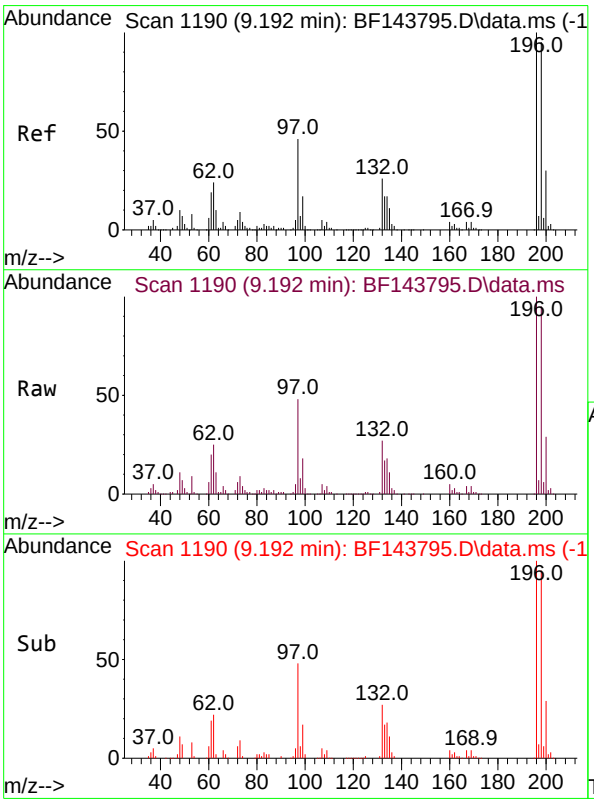
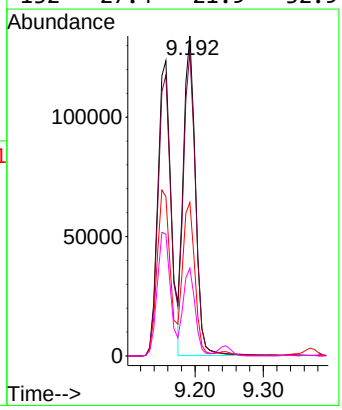
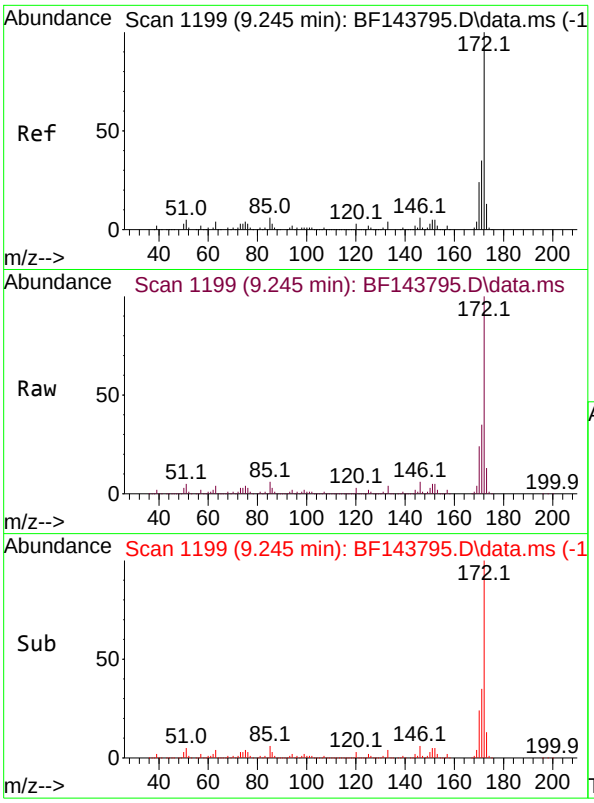


#44
2,4,5-Trichlorophenol
Concen: 42.801 ng
RT: 9.192 min Scan# 1190
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:196 Resp: 165369

Ion	Ratio	Lower	Upper
196	100		
198	94.9	75.9	113.9
97	47.9	38.3	57.5
132	27.4	21.9	32.9

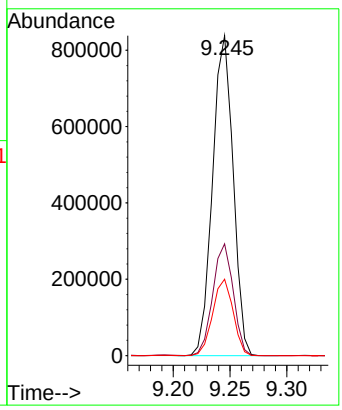




#45
2-Fluorobiphenyl
Concen: 79.854 ng
RT: 9.245 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:172 Resp: 105629

Ion	Ratio	Lower	Upper
172	100		
171	34.9	27.9	41.9
170	23.9	19.1	28.7



Instrument :
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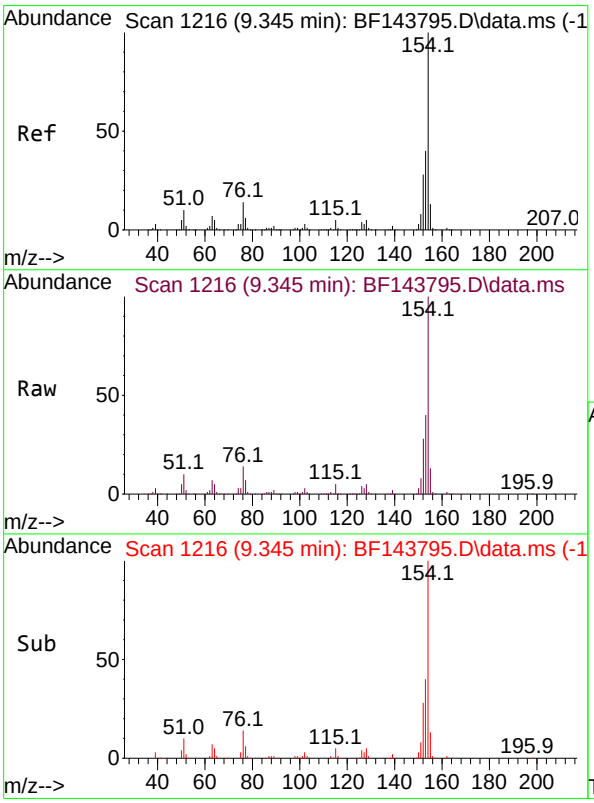
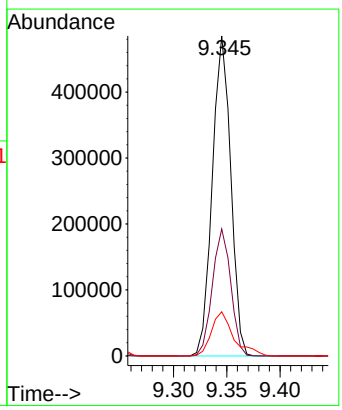
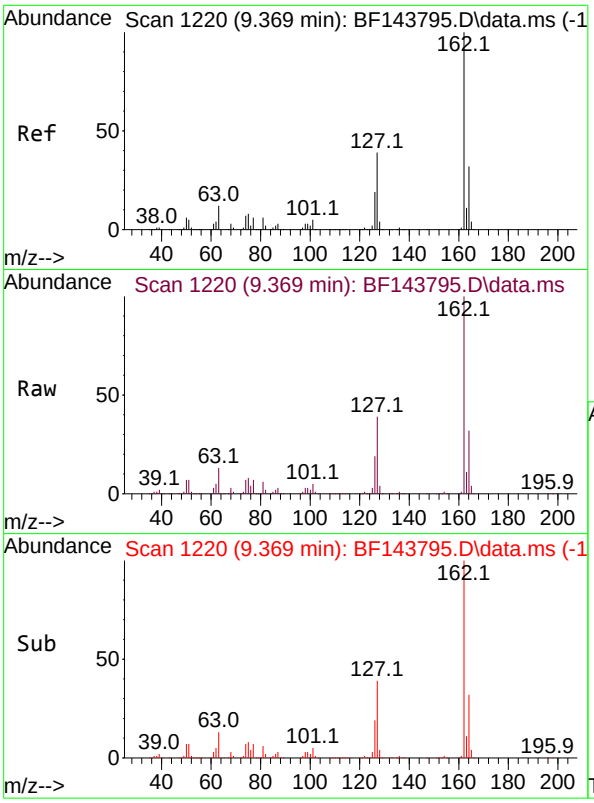


#46
1,1'-Biphenyl
Concen: 41.309 ng
RT: 9.345 min Scan# 1216
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:154 Resp: 584522

Ion	Ratio	Lower	Upper
154	100		
153	39.7	19.7	59.7
76	13.8	0.0	33.8

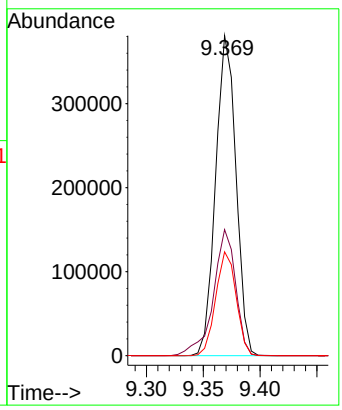




#47
2-Chloronaphthalene
Concen: 41.694 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:162 Resp: 474899

Ion	Ratio	Lower	Upper
162	100		
127	39.4	31.5	47.3
164	32.4	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
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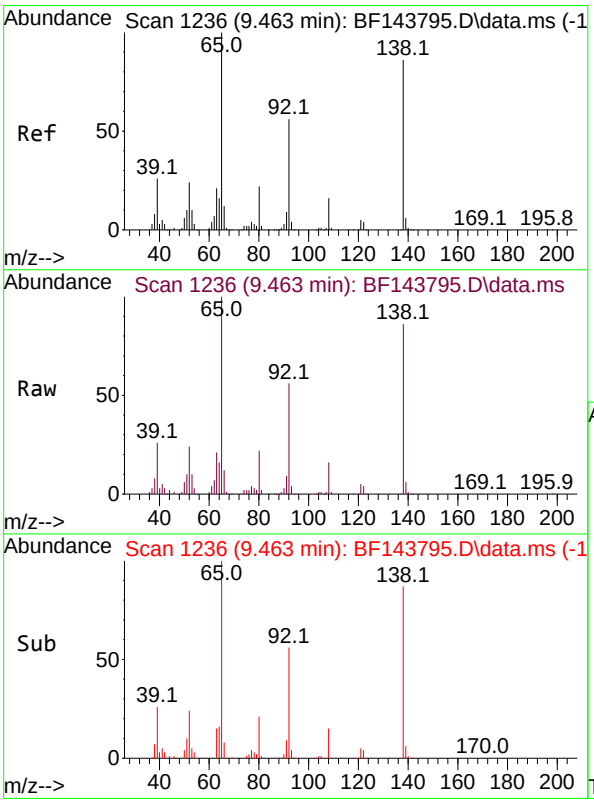
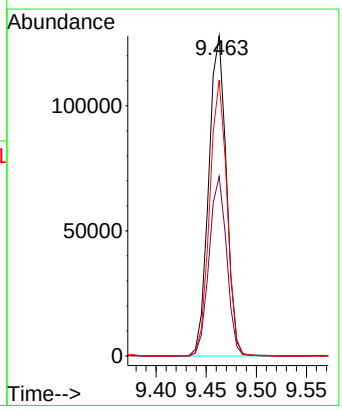
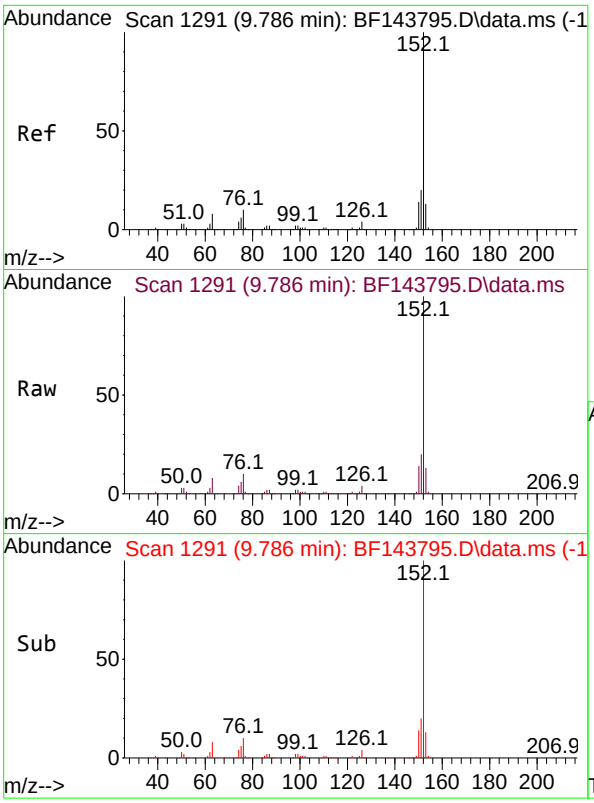


#48
2-Nitroaniline
Concen: 45.383 ng
RT: 9.463 min Scan# 1236
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 65 Resp: 156231

Ion	Ratio	Lower	Upper
65	100		
92	56.1	44.9	67.3
138	86.2	69.0	103.4

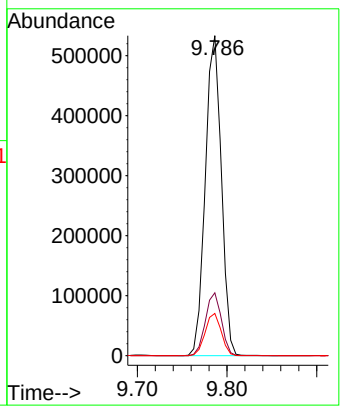




#49
Acenaphthylene
Concen: 42.150 ng
RT: 9.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:152 Resp: 66092

Ion	Ratio	Lower	Upper
152	100		
151	19.6	15.7	23.5
153	13.2	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
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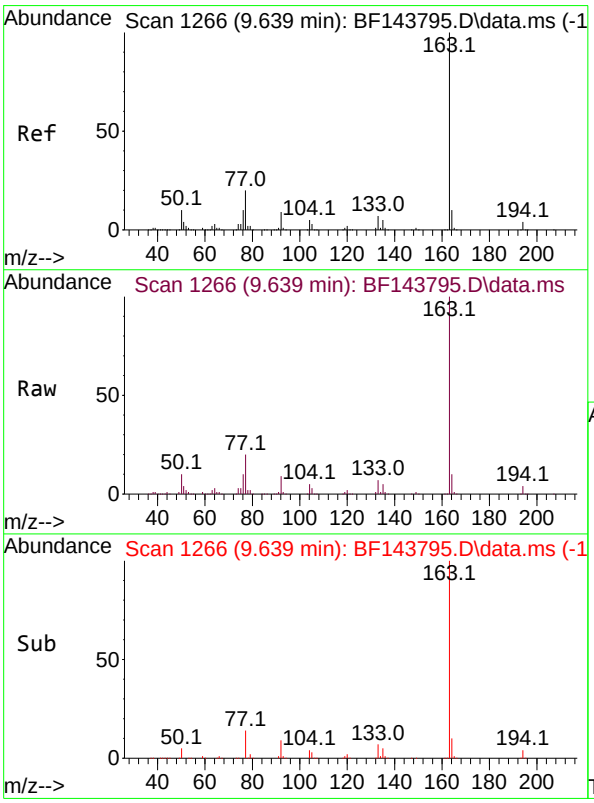
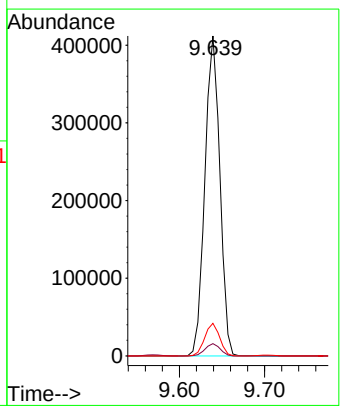
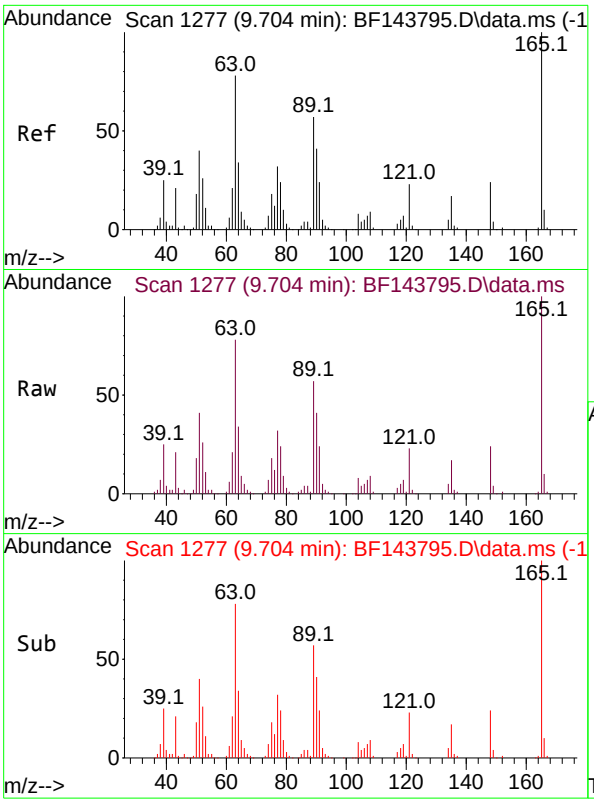


#50
Dimethylphthalate
Concen: 42.186 ng
RT: 9.639 min Scan# 1266
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:163 Resp: 502623

Ion	Ratio	Lower	Upper
163	100		
194	3.8	3.0	4.6
164	10.2	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 45.543 ng
RT: 9.704 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:165 Resp: 8915

Ion	Ratio	Lower	Upper
165	100		
63	78.3	62.6	94.0
89	56.5	45.2	67.8

Instrument :
BNA_F
ClientSampleId :
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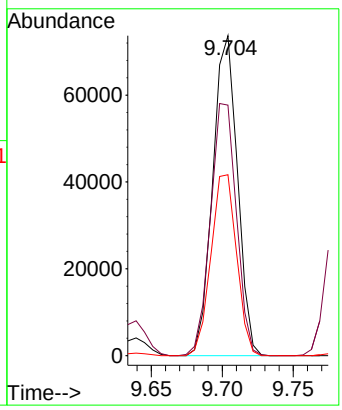
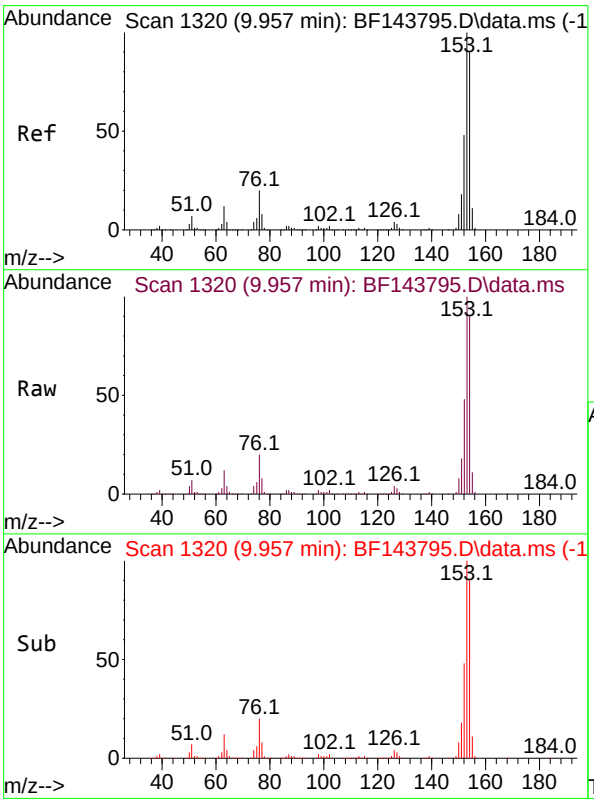
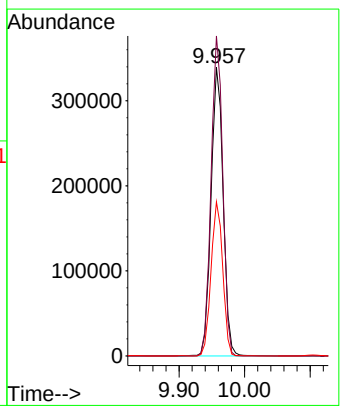


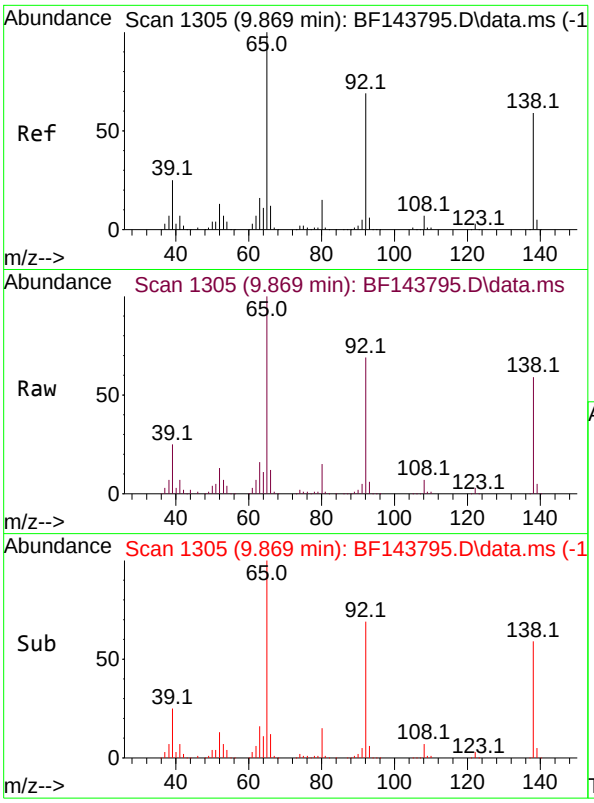


#52
Acenaphthene
Concen: 42.036 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:154 Resp: 433748

Ion	Ratio	Lower	Upper
154	100		
153	110.9	88.7	133.1
152	53.4	42.7	64.1





#53
3-Nitroaniline
Concen: 46.671 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:138 Resp: 11073

Ion	Ratio	Lower	Upper
138	100		
108	12.4	9.9	14.9
92	116.9	93.5	140.3

Instrument :
BNA_F
ClientSampleId :
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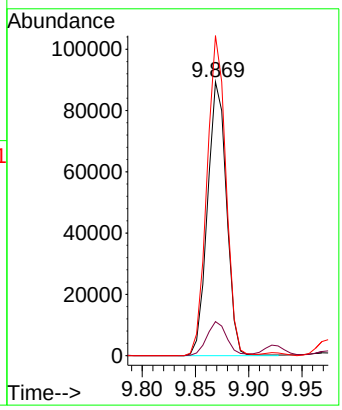
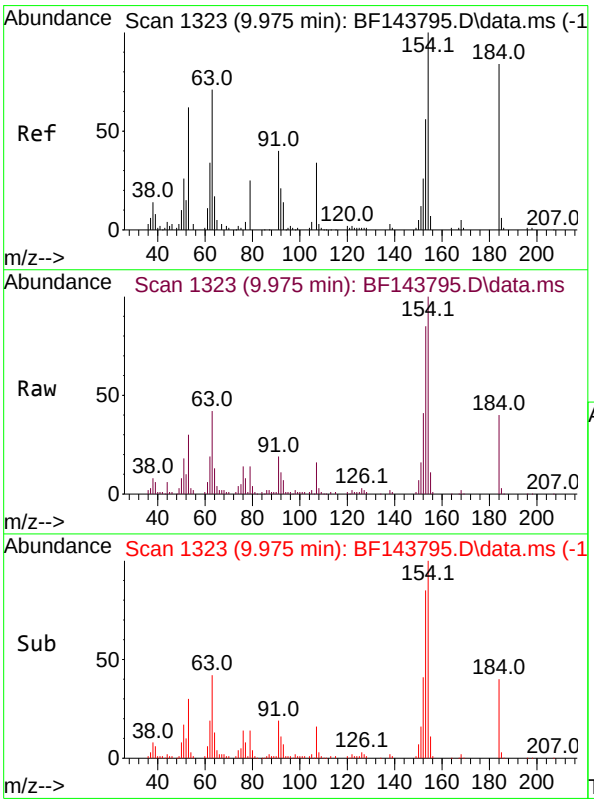
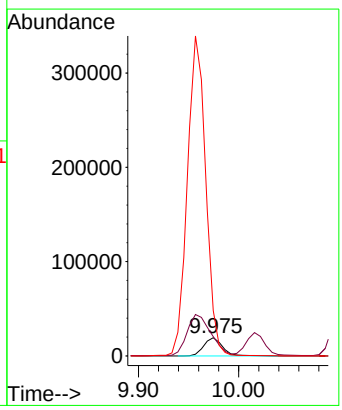


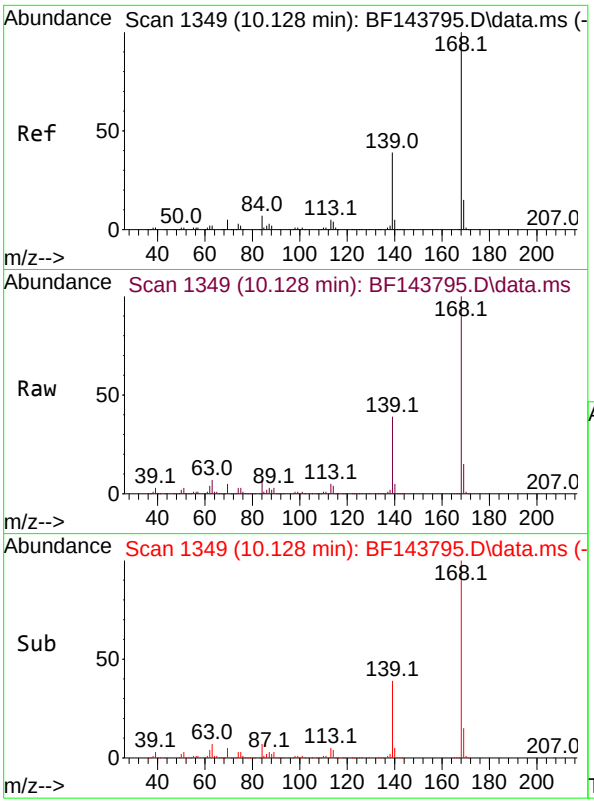


#54
2,4-Dinitrophenol
Concen: 41.301 ng
RT: 9.975 min Scan# 1323
Delta R.T. -0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:184 Resp: 24685

Ion	Ratio	Lower	Upper
184	100		
63	105.8	84.6	127.0
154	249.1	199.3	298.9

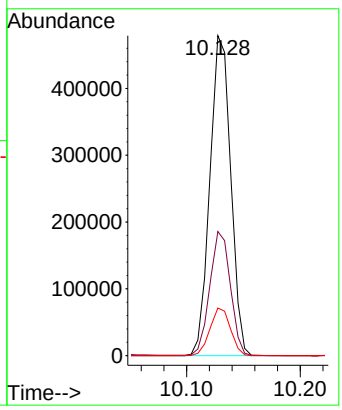




#55
Dibenzofuran
Concen: 41.833 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:168 Resp: 61039

Ion	Ratio	Lower	Upper
168	100		
139	38.8	31.0	46.6
169	14.9	11.9	17.9



Instrument :
BNA_F
ClientSampleId :
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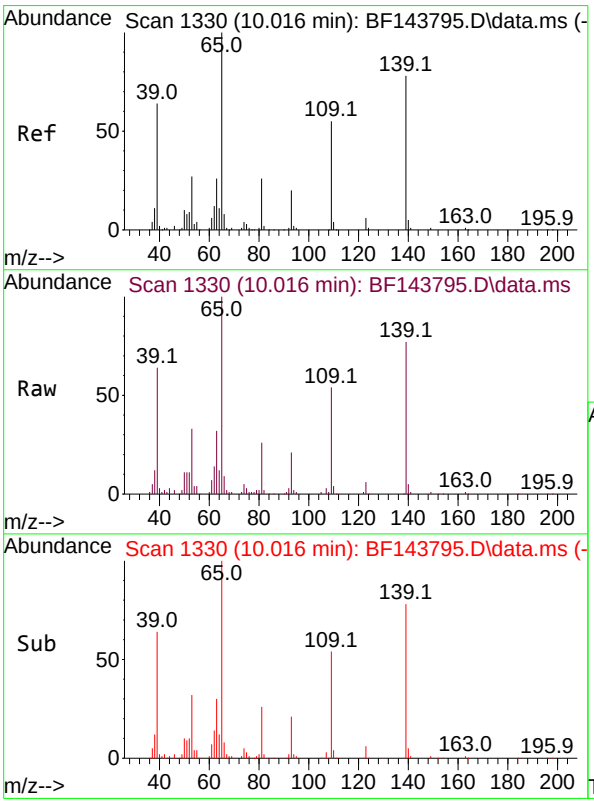
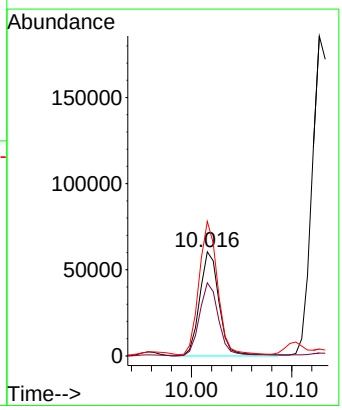
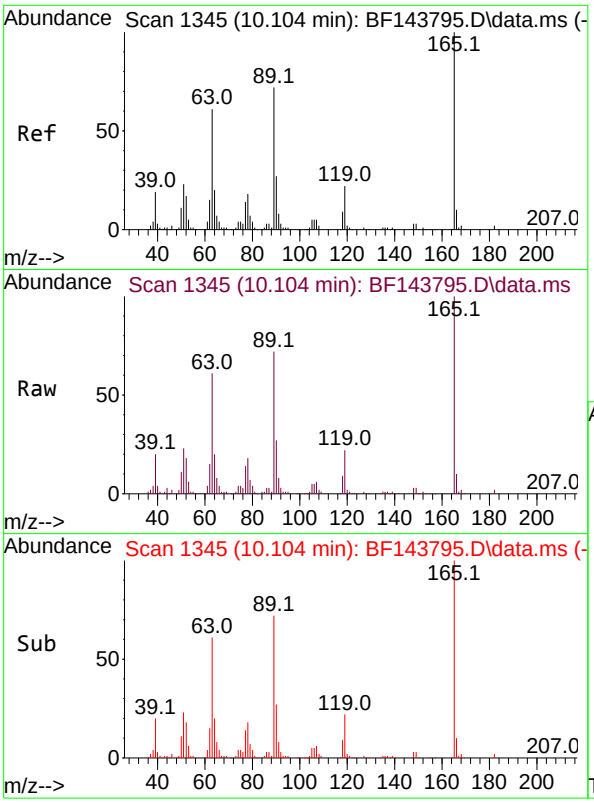


#56
4-Nitrophenol
Concen: 42.462 ng
RT: 10.016 min Scan# 1330
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:139 Resp: 81189

Ion	Ratio	Lower	Upper
139	100		
109	70.2	50.2	90.2
65	129.2	109.2	149.2

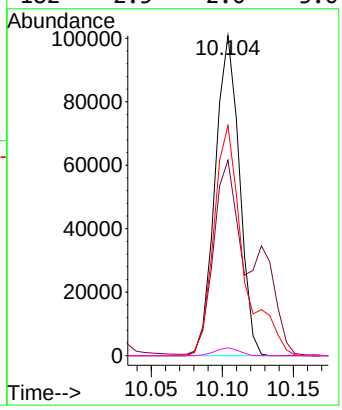




#57
2,4-Dinitrotoluene
Concen: 41.745 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:165 Resp: 12011

Ion	Ratio	Lower	Upper
165	100		
63	61.1	48.9	73.3
89	71.9	57.5	86.3
182	2.5	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
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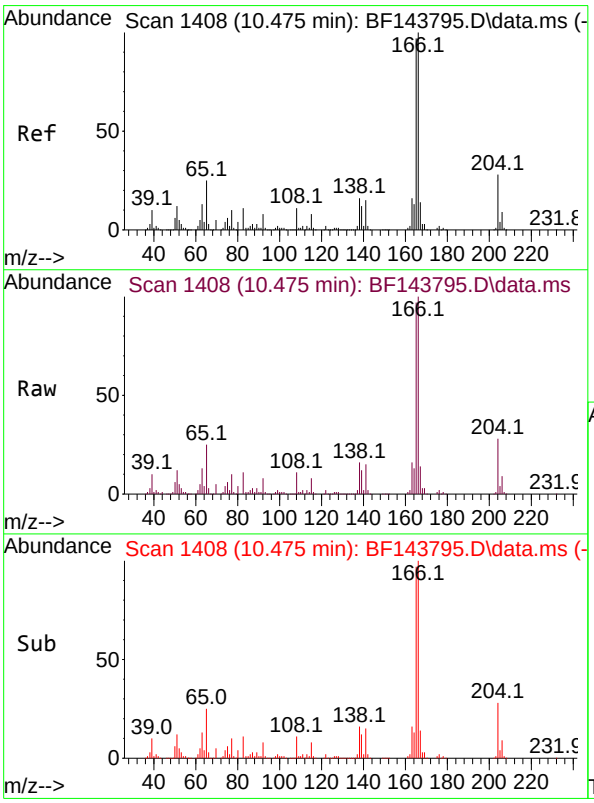
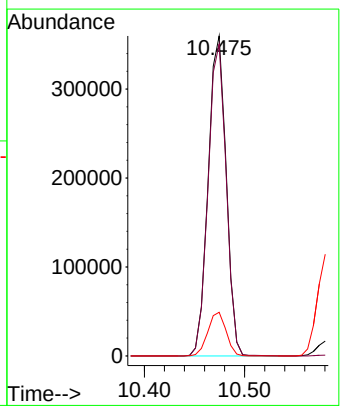
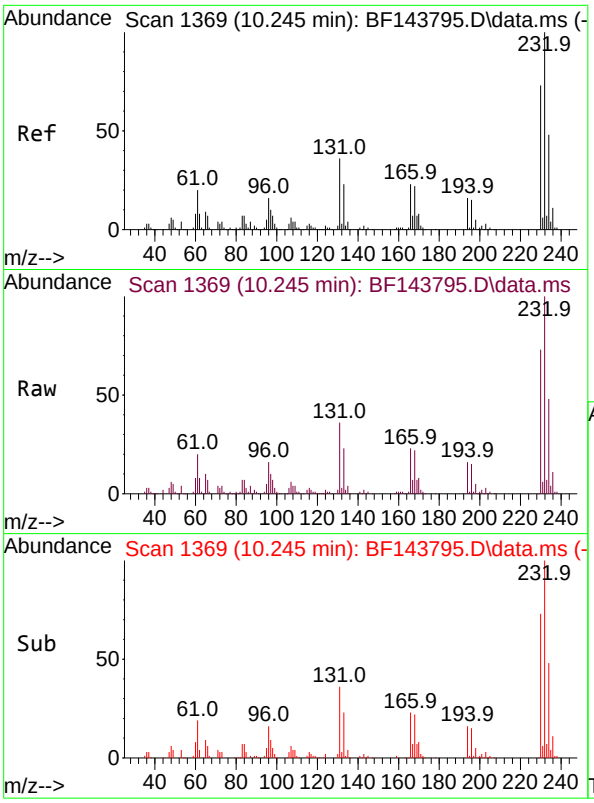


#58
Fluorene
Concen: 41.324 ng
RT: 10.475 min Scan# 1408
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:166 Resp: 448265

Ion	Ratio	Lower	Upper
166	100		
165	97.5	78.0	117.0
167	13.6	10.9	16.3

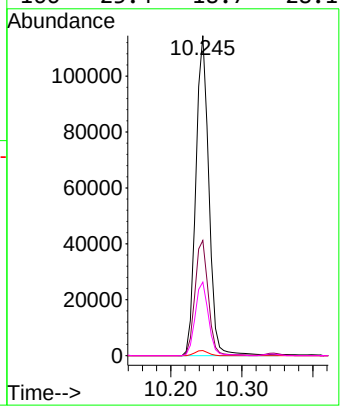




#59
2,3,4,6-Tetrachlorophenol
Concen: 44.013 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:232 Resp: 14568

Ion	Ratio	Lower	Upper
232	100		
131	36.8	29.4	44.2
130	1.6	1.3	1.9
166	23.4	18.7	28.1



Instrument :
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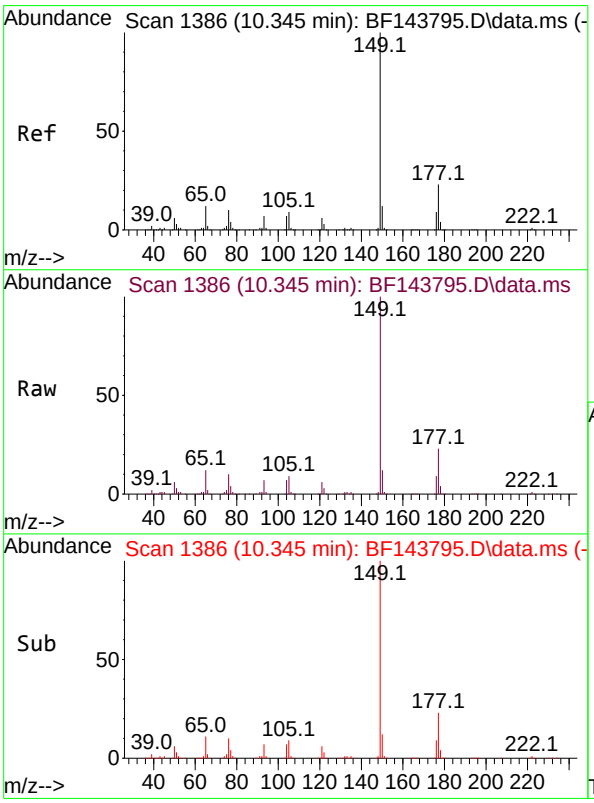
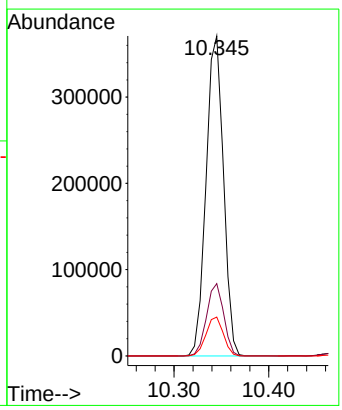
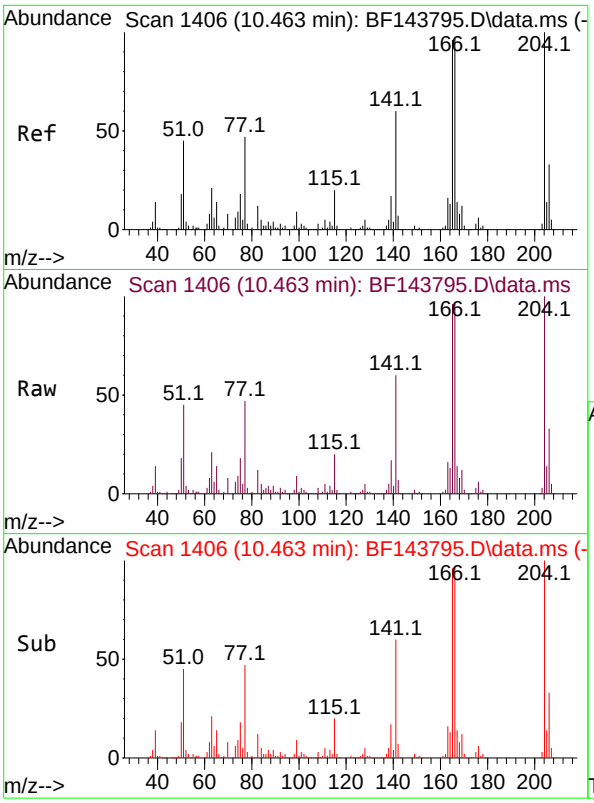


#60
Diethylphthalate
Concen: 42.438 ng
RT: 10.345 min Scan# 1386
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:149 Resp: 473302

Ion	Ratio	Lower	Upper
149	100		
177	22.6	18.1	27.1
150	12.1	9.7	14.5

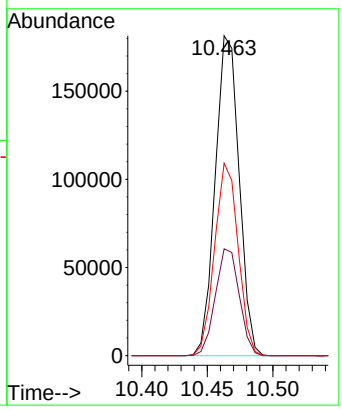




#61
4-Chlorophenyl-phenylether
Concen: 41.729 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:204 Resp: 23064

Ion	Ratio	Lower	Upper
204	100		
206	33.4	26.7	40.1
141	60.2	48.2	72.2



Instrument :
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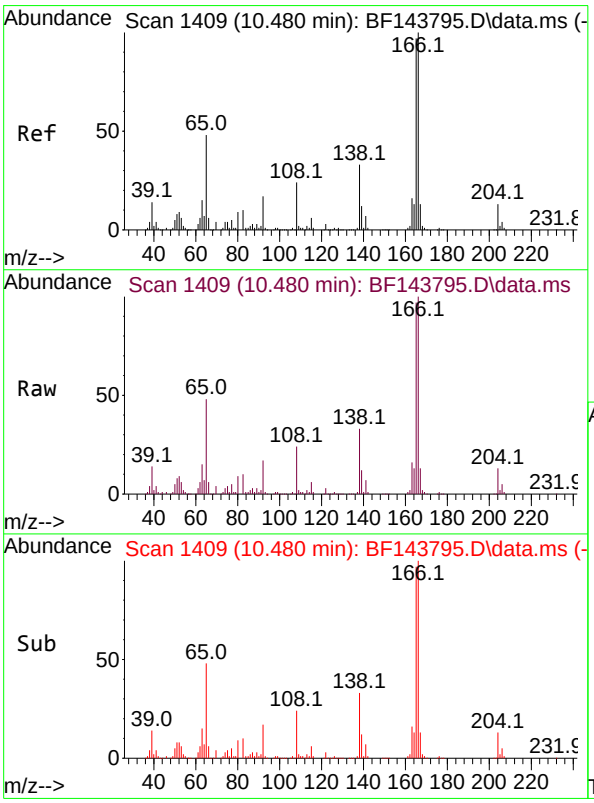
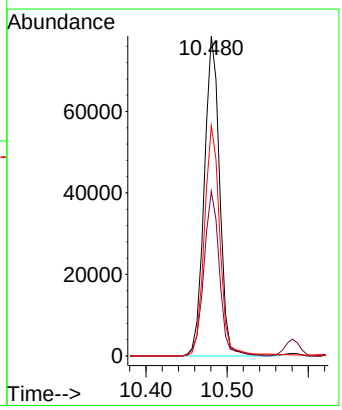
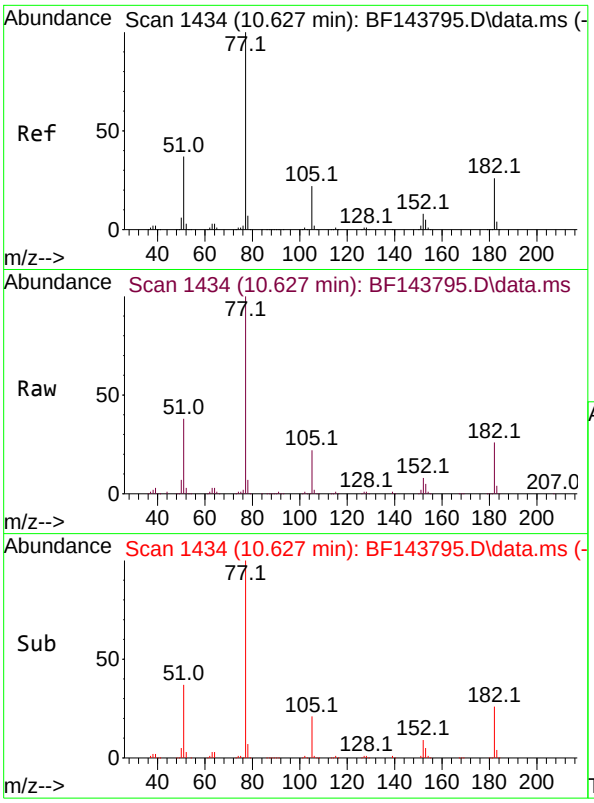


#62
4-Nitroaniline
Concen: 46.254 ng
RT: 10.480 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:138 Resp: 103193

Ion	Ratio	Lower	Upper
138	100		
92	51.5	31.5	71.5
108	71.9	51.9	91.9

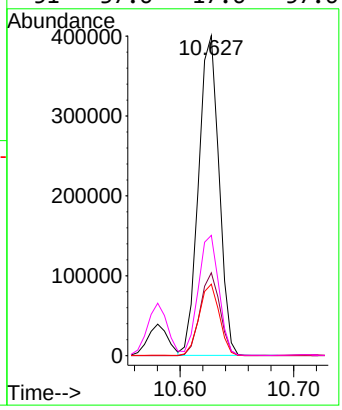




#63
Azobenzene
Concen: 42.532 ng
RT: 10.627 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion: 77 Resp: 49992

Ion	Ratio	Lower	Upper
77	100		
182	25.9	5.9	45.9
105	22.3	2.3	42.3
51	37.6	17.6	57.6



Instrument :
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ClientSampleId :
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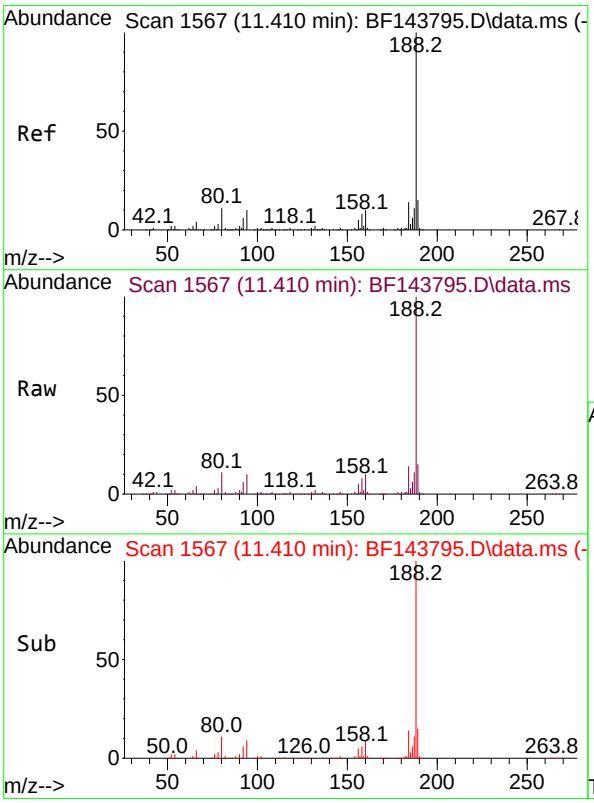
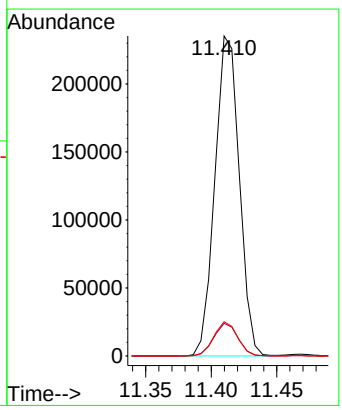
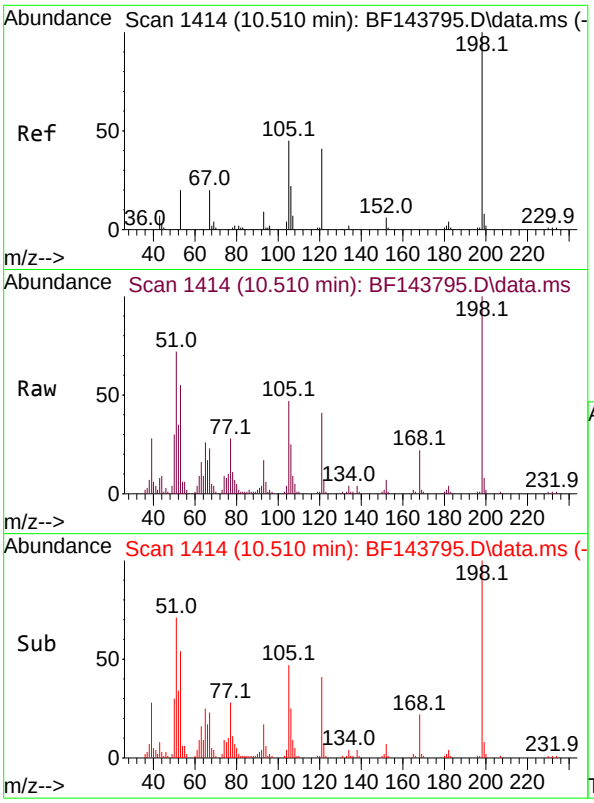


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:188 Resp: 304940

Ion	Ratio	Lower	Upper
188	100		
94	10.2	8.2	12.2
80	10.7	8.6	12.8





#65
4,6-Dinitro-2-methylphenol
Concen: 40.163 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:198 Resp: 4244

Ion	Ratio	Lower	Upper
198	100		
51	72.0	52.0	92.0
105	47.5	27.5	67.5

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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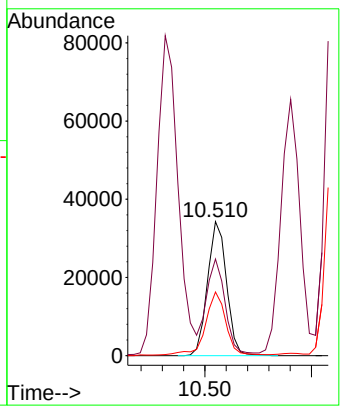
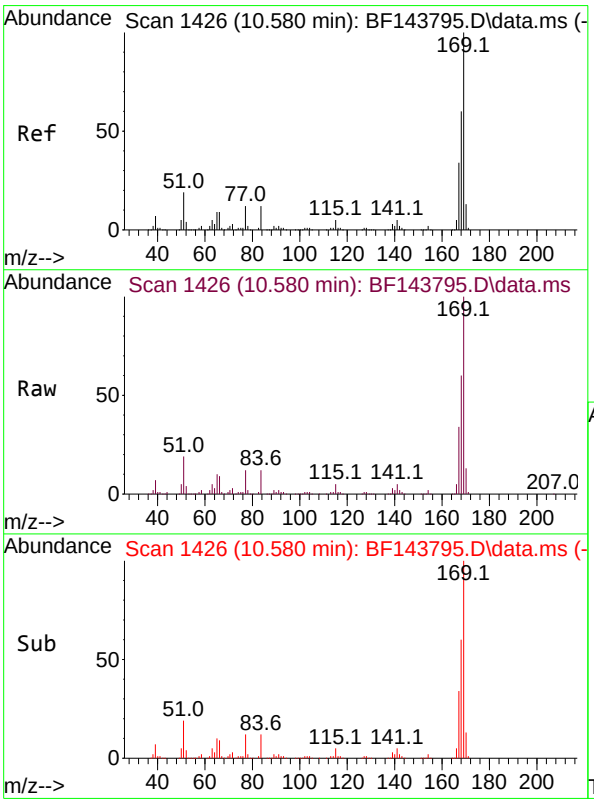
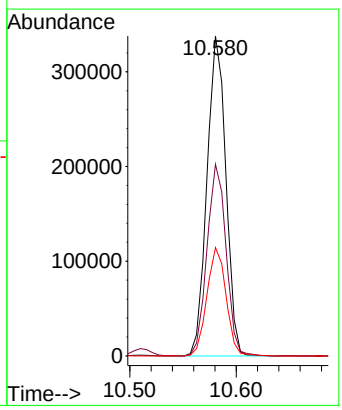


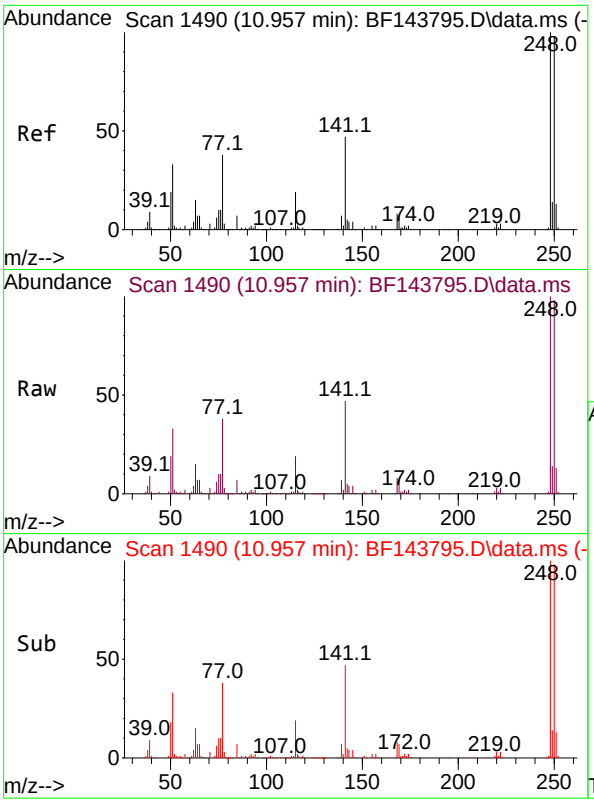


#66
n-Nitrosodiphenylamine
Concen: 41.492 ng
RT: 10.580 min Scan# 1426
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:169 Resp: 416100

Ion	Ratio	Lower	Upper
169	100		
168	59.9	47.9	71.9
167	33.8	27.0	40.6

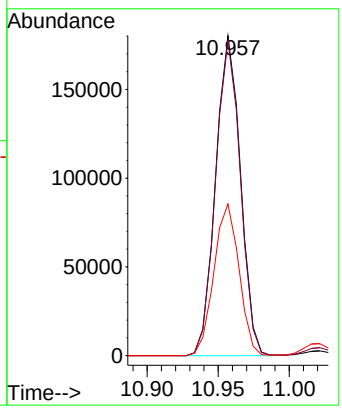




#67
4-Bromophenyl-phenylether
Concen: 42.319 ng
RT: 10.957 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:248 Resp: 21992

Ion	Ratio	Lower	Upper
248	100		
250	98.4	78.7	118.1
141	47.4	37.9	56.9



Instrument :
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ClientSampleId :
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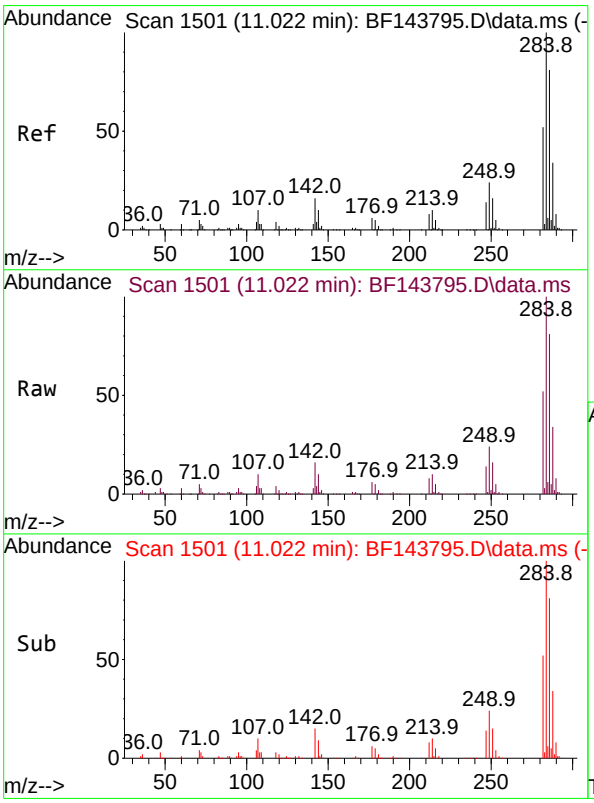
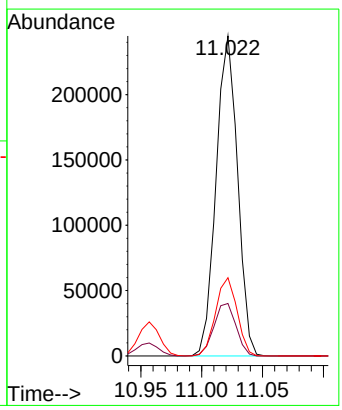
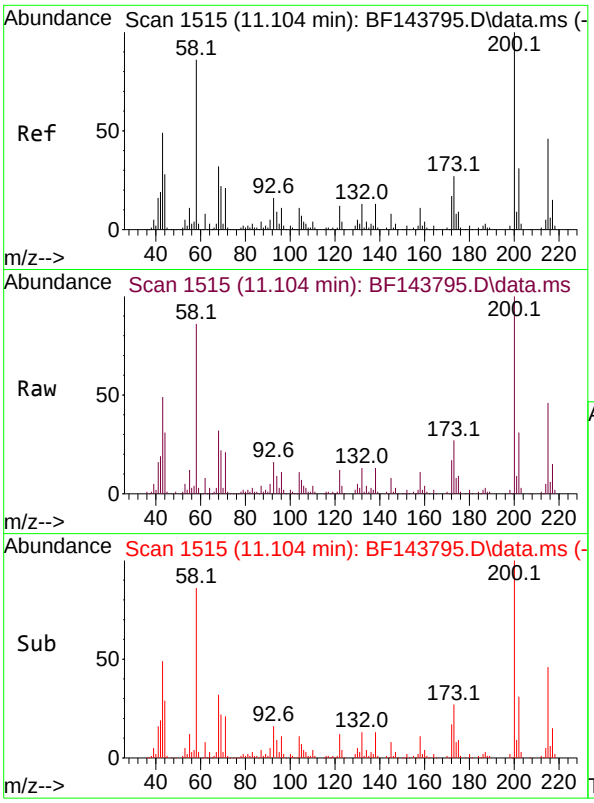


#68
Hexachlorobenzene
Concen: 41.941 ng
RT: 11.022 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:284 Resp: 300364

Ion	Ratio	Lower	Upper
284	100		
142	16.4	13.1	19.7
249	24.4	19.5	29.3

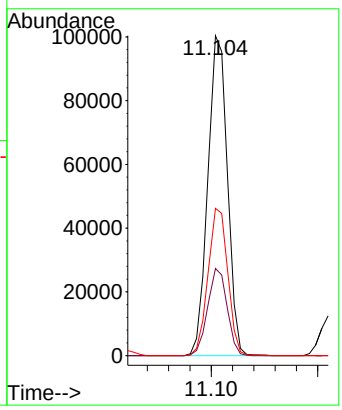




#69
Atrazine
Concen: 44.222 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:200 Resp: 12842

Ion	Ratio	Lower	Upper
200	100		
173	27.2	7.2	47.2
215	46.0	26.0	66.0



Instrument :
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ClientSampleId :
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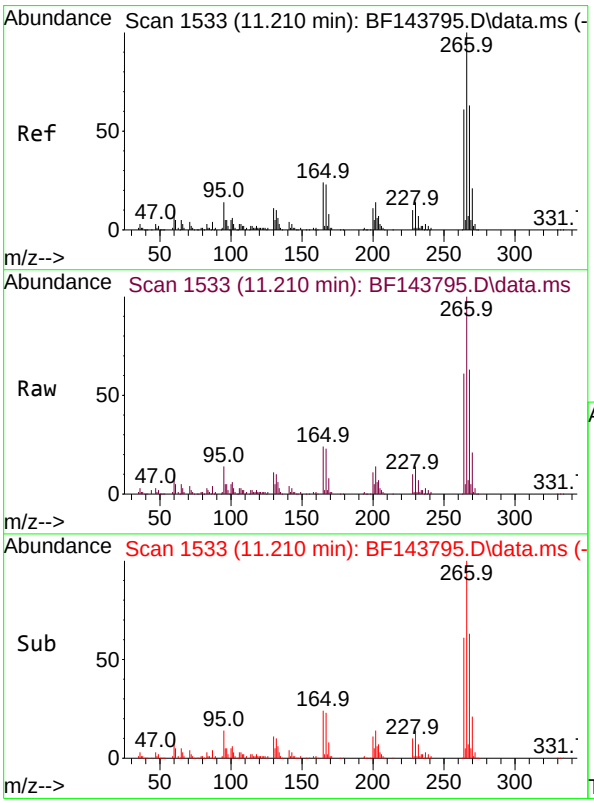
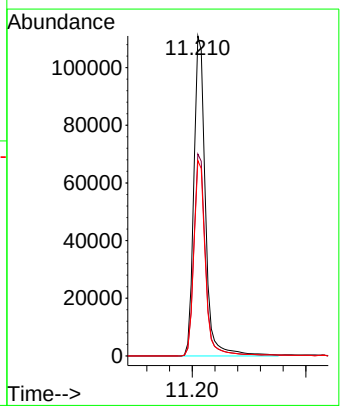
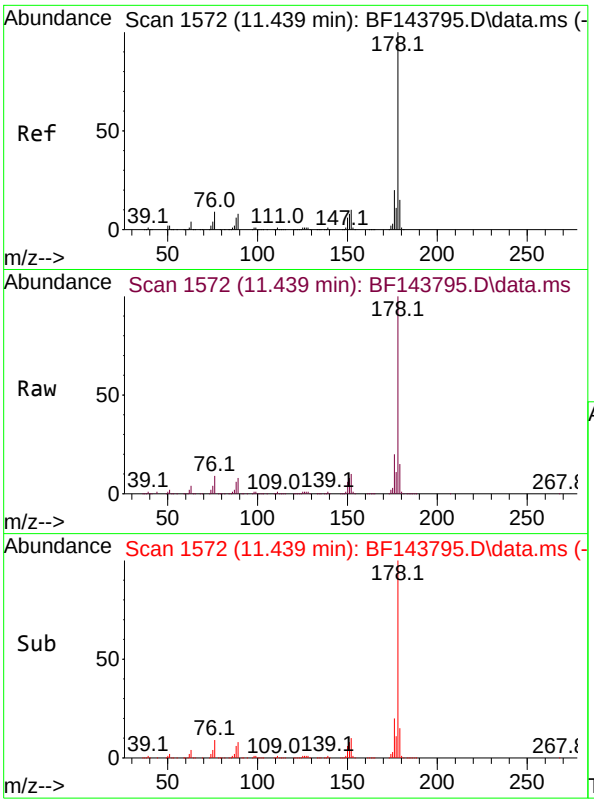


#70
Pentachlorophenol
Concen: 43.781 ng
RT: 11.210 min Scan# 1533
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:266 Resp: 156073

Ion	Ratio	Lower	Upper
266	100		
268	63.1	50.5	75.7
264	61.0	48.8	73.2

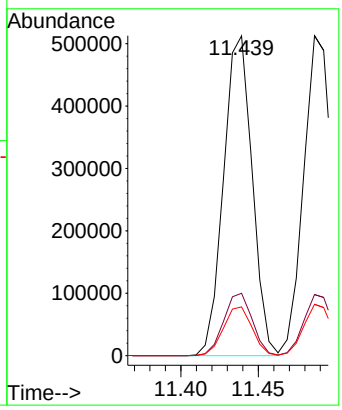




#71
Phenanthrene
Concen: 42.160 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:178 Resp: 66004

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.6	23.4
179	15.3	12.2	18.4



Instrument :
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ClientSampleId :
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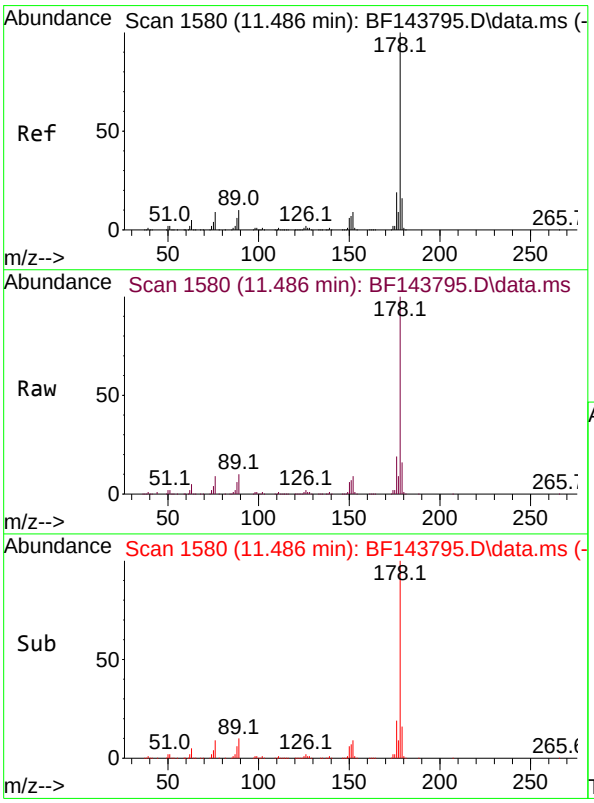
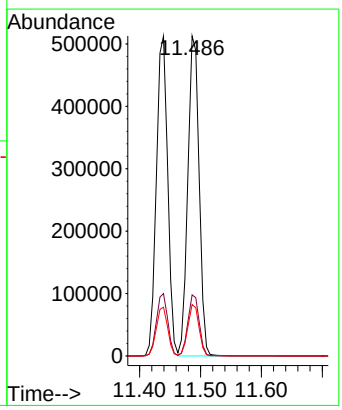
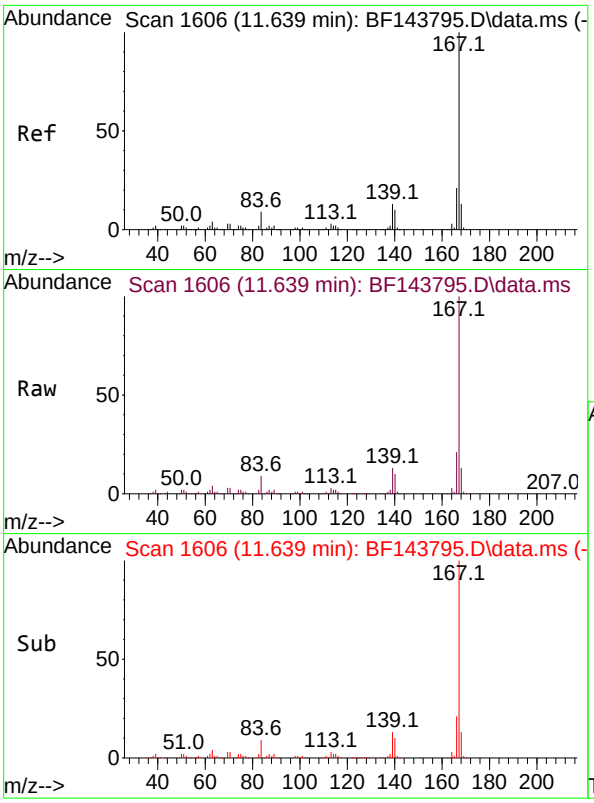


#72
Anthracene
Concen: 42.075 ng
RT: 11.486 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:178 Resp: 660736

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	16.0	12.8	19.2





#73
Carbazole
Concen: 43.368 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:167 Resp: 595454

Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.0	25.4
139	13.2	10.6	15.8

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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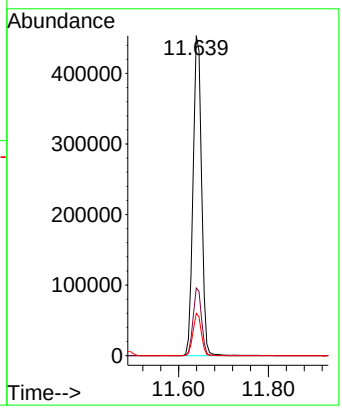
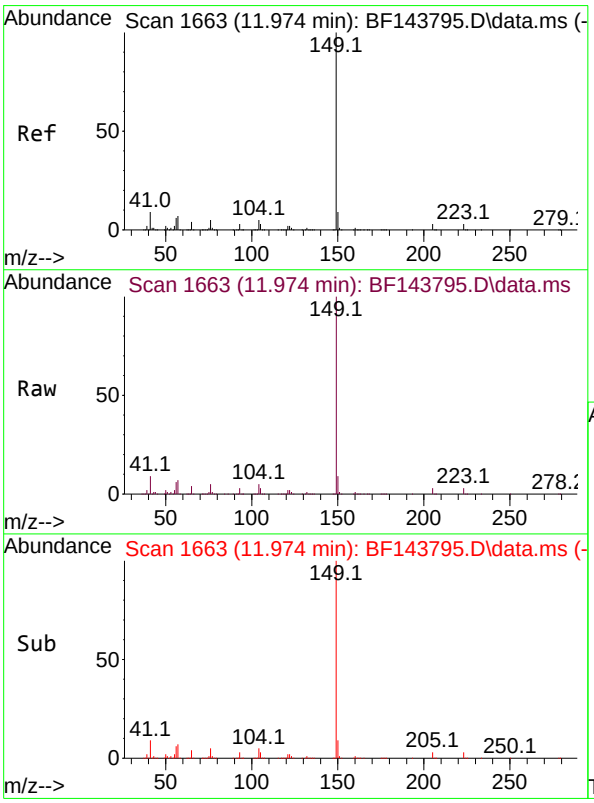
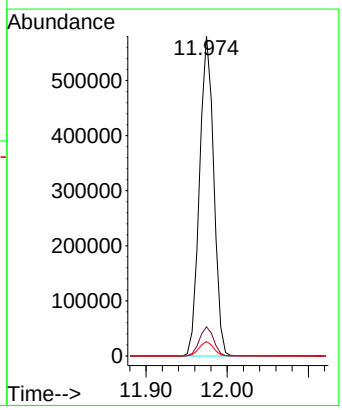


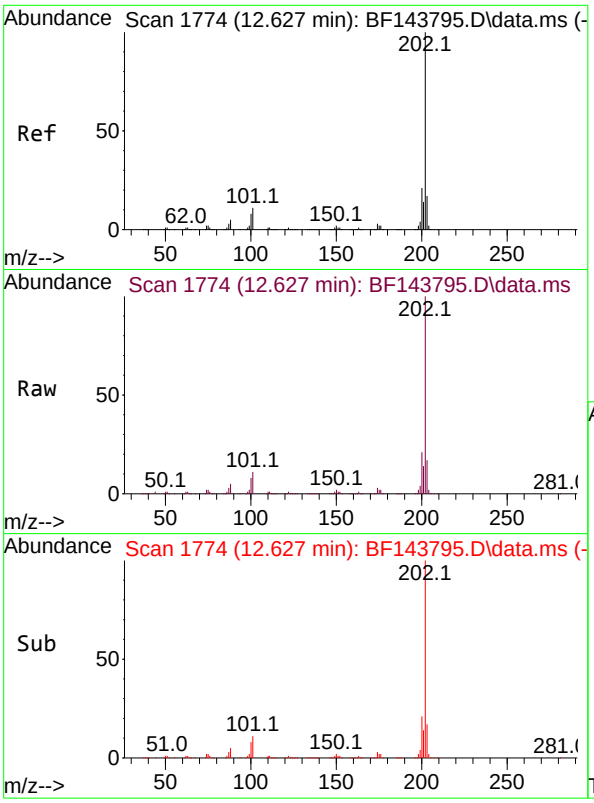


#74
Di-n-butylphthalate
Concen: 44.694 ng
RT: 11.974 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:149 Resp: 705755

Ion	Ratio	Lower	Upper
149	100		
150	9.1	7.3	10.9
104	4.5	3.6	5.4

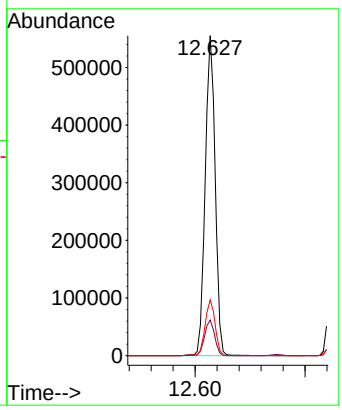




#75
Fluoranthene
Concen: 44.322 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:202 Resp: 697899

Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	31.1
203	17.4	0.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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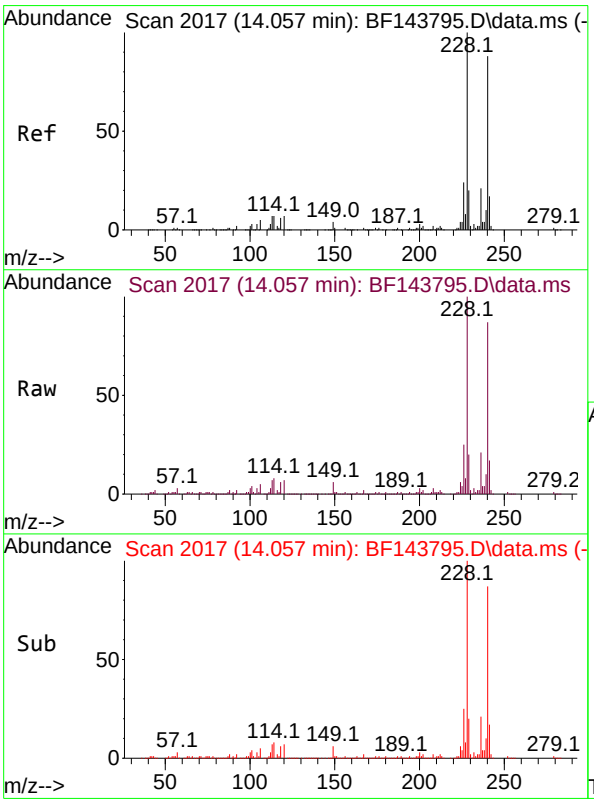
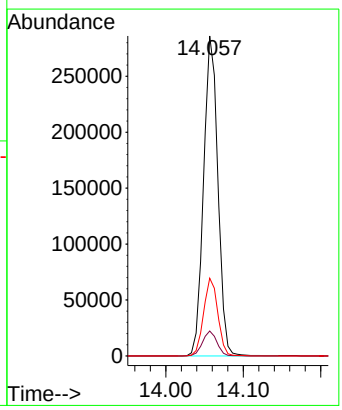
Supervised By :Jagrut Upadhyay 09/24/2025

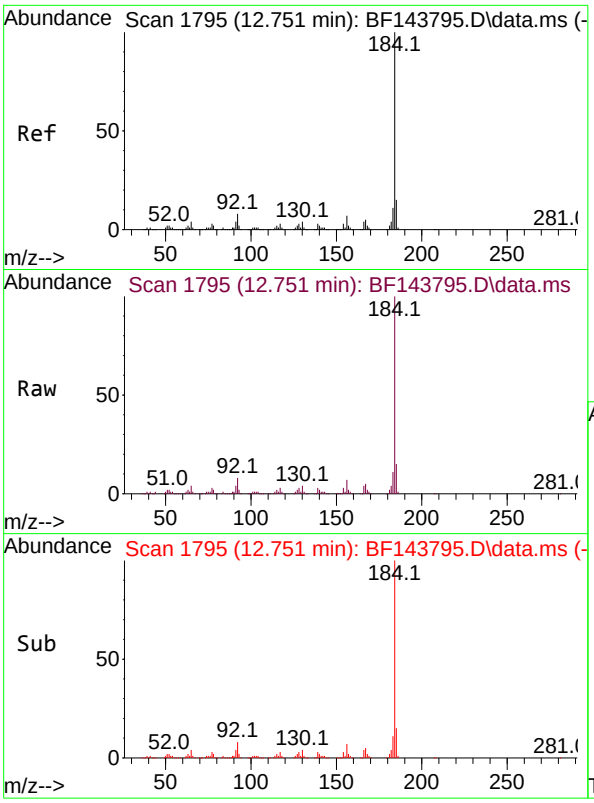


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:240 Resp: 365989

Ion	Ratio	Lower	Upper
240	100		
120	7.8	6.2	9.4
236	24.3	19.4	29.2

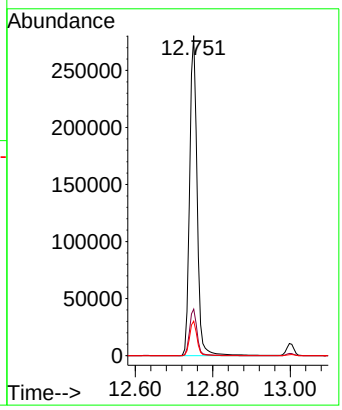




#77
Benzidine
Concen: 41.956 ng
RT: 12.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:184 Resp: 37418

Ion	Ratio	Lower	Upper
184	100		
185	14.5	11.6	17.4
183	10.8	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
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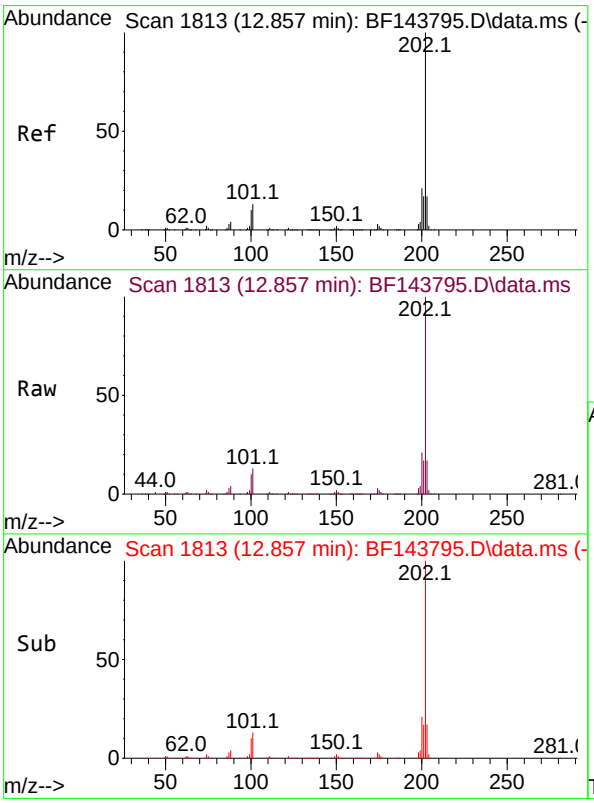
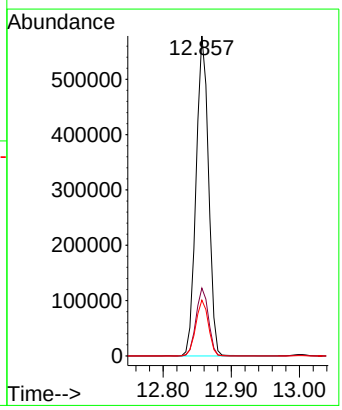
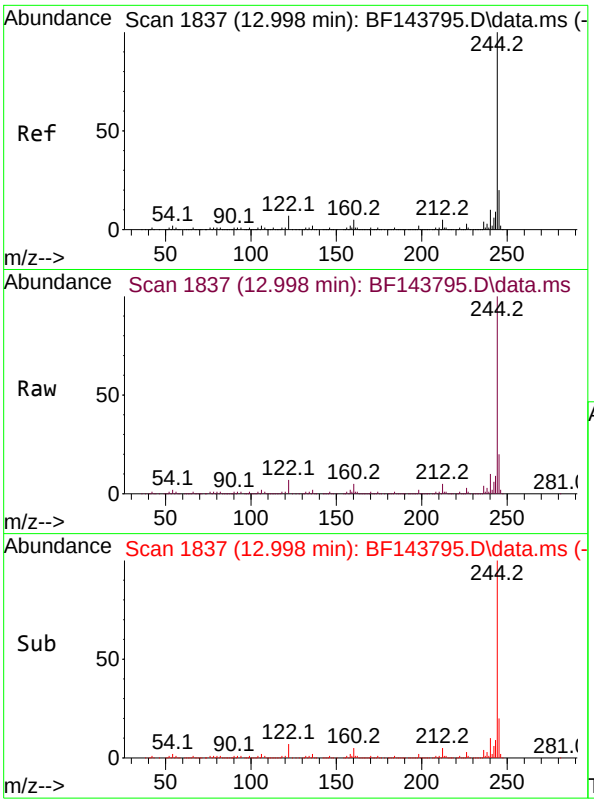


#78
Pyrene
Concen: 40.870 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:202 Resp: 735401

Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.0	25.4
203	17.4	13.9	20.9

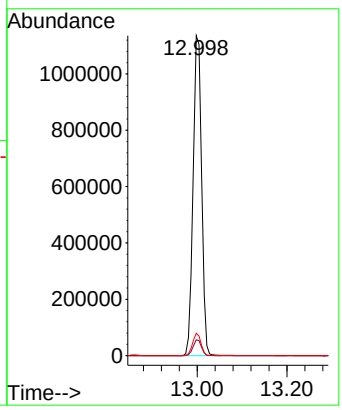




#79
Terphenyl-d14
Concen: 80.257 ng
RT: 12.998 min Scan# 18
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:244 Resp: 149610

Ion	Ratio	Lower	Upper
244	100		
212	4.9	3.9	5.9
122	7.0	5.6	8.4



Instrument :
BNA_F
ClientSampleId :
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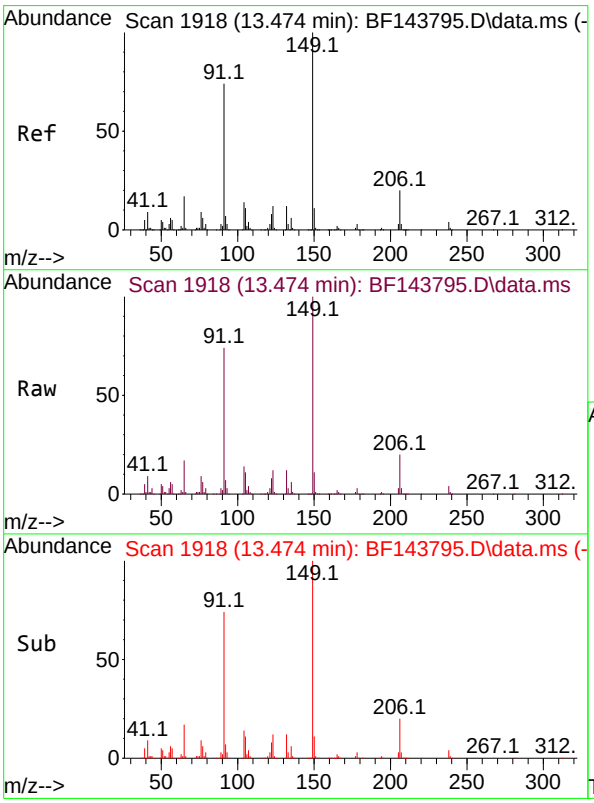
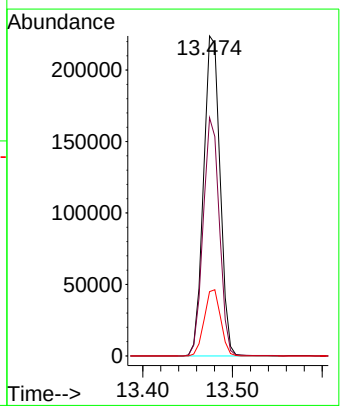
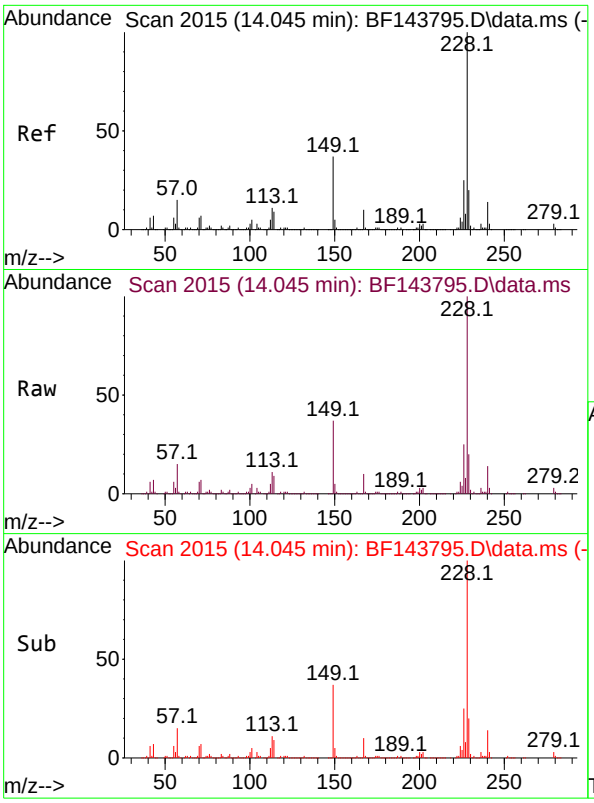


#80
Butylbenzylphthalate
Concen: 46.027 ng
RT: 13.474 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:149 Resp: 286527

Ion	Ratio	Lower	Upper
149	100		
91	74.4	59.5	89.3
206	20.1	16.1	24.1

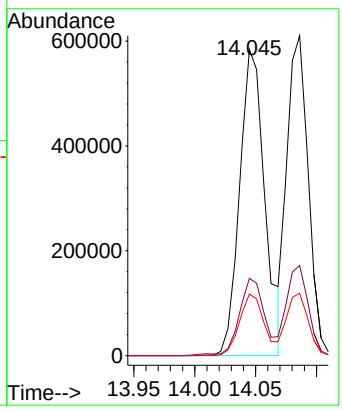




#81
Benzo(a)anthracene
Concen: 42.732 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:228 Resp: 84018

Ion	Ratio	Lower	Upper
228	100		
226	25.2	20.2	30.2
229	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
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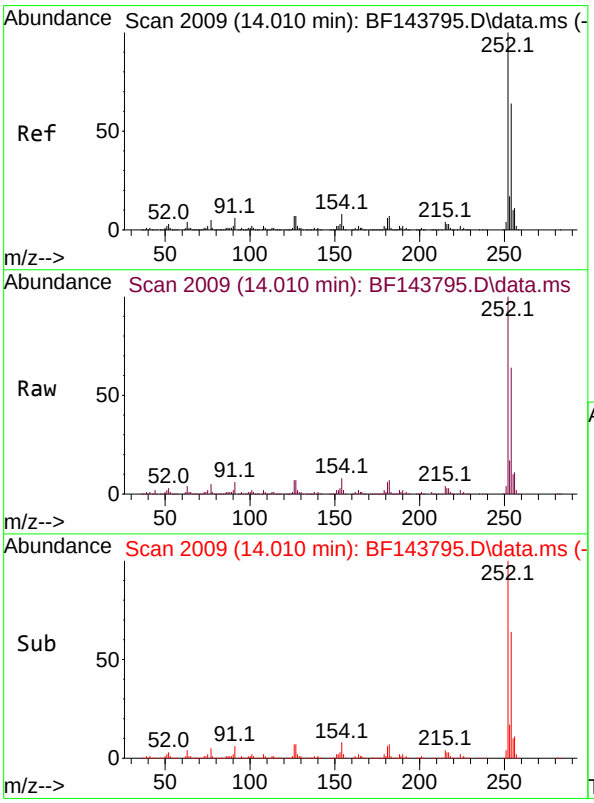
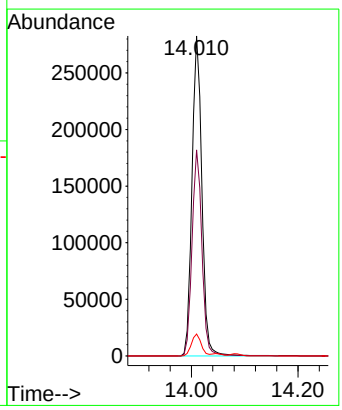
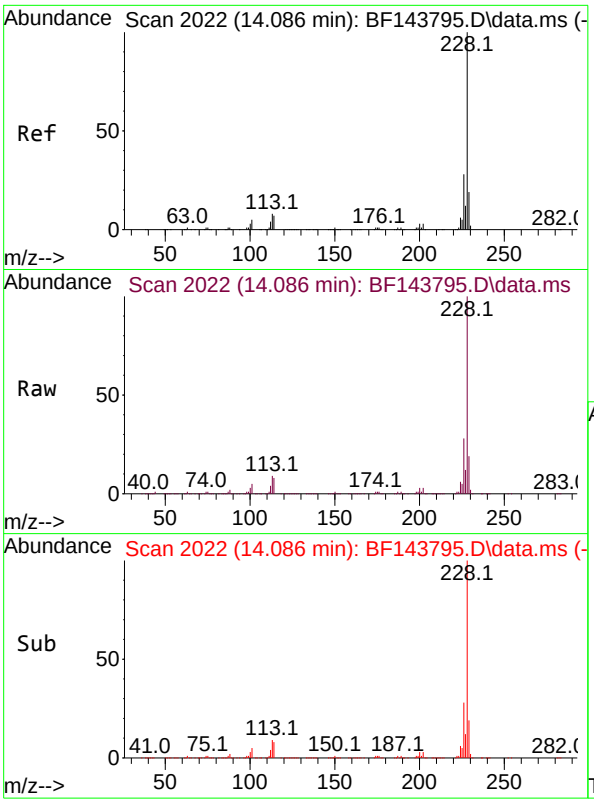


#82
3,3'-Dichlorobenzidine
Concen: 42.702 ng
RT: 14.010 min Scan# 2009
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:252 Resp: 363730

Ion	Ratio	Lower	Upper
252	100		
254	64.4	51.5	77.3
126	6.8	5.4	8.2





#83
Chrysene
Concen: 41.873 ng
RT: 14.086 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:228 Resp: 74496

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	19.5	15.6	23.4

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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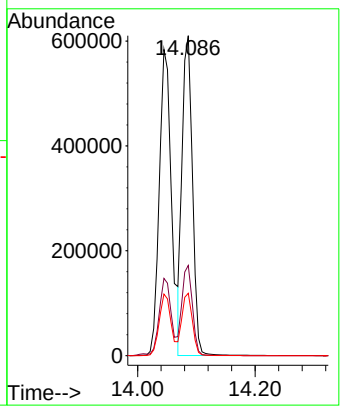
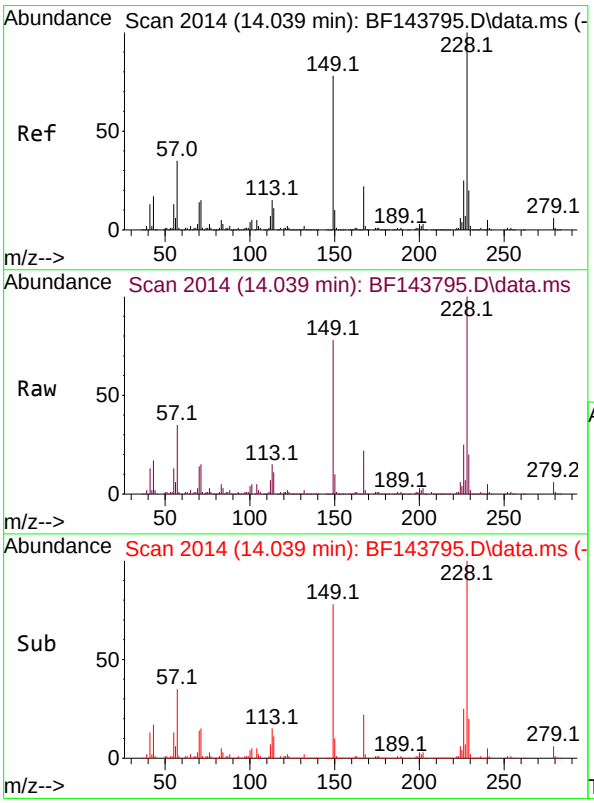
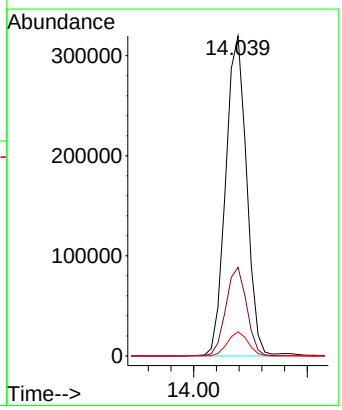


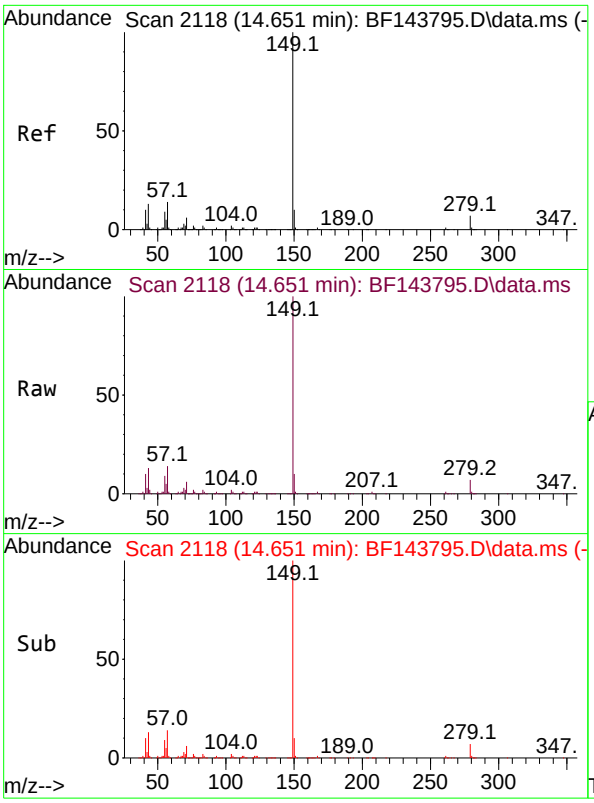


#84
Bis(2-ethylhexyl)phthalate
Concen: 44.759 ng
RT: 14.039 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:149 Resp: 408417

Ion	Ratio	Lower	Upper
149	100		
167	27.7	22.2	33.2
279	7.5	6.0	9.0

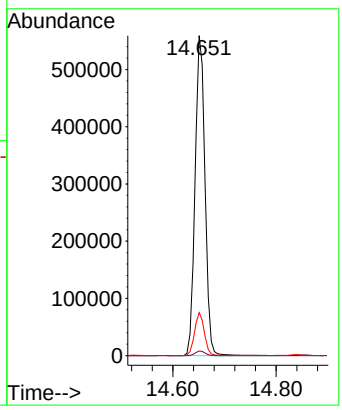




#85
Di-n-octyl phthalate
Concen: 44.811 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:149 Resp: 74170

Ion	Ratio	Lower	Upper
149	100		
167	1.4	1.1	1.7
43	13.4	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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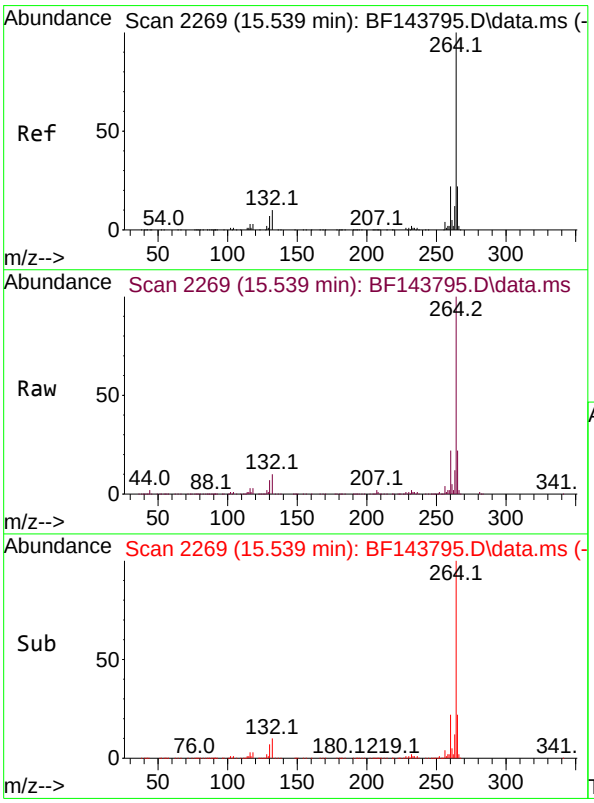
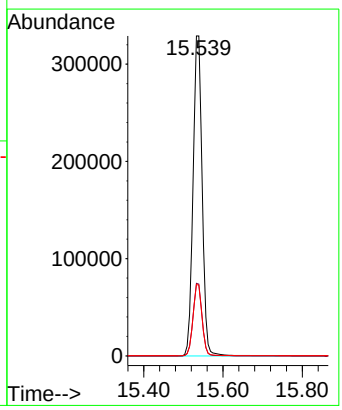
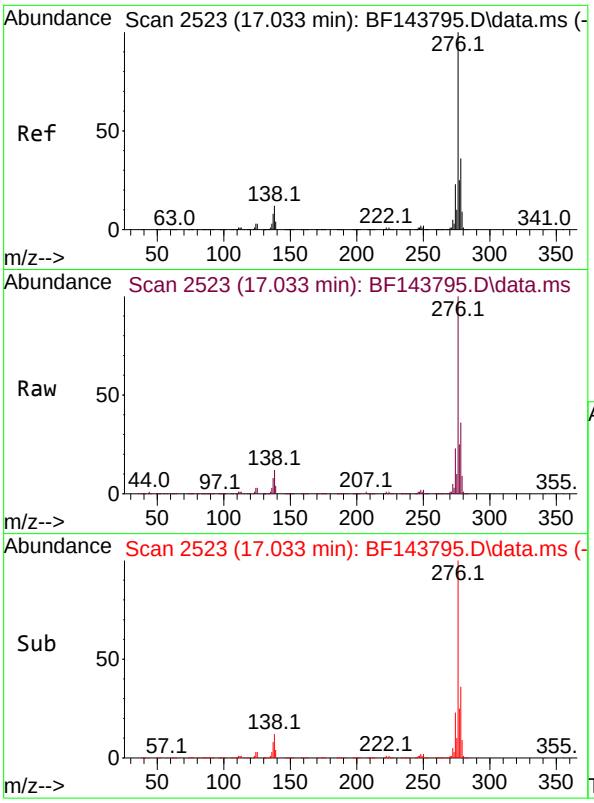


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:264 Resp: 525577

Ion	Ratio	Lower	Upper
264	100		
260	22.4	17.9	26.9
265	22.1	17.7	26.5

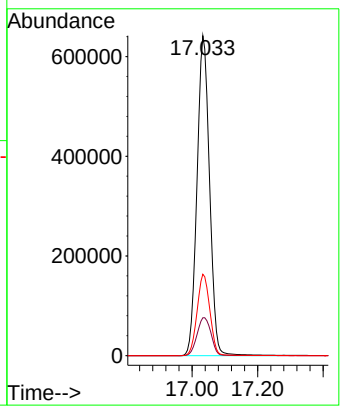




#87
Indeno(1,2,3-cd)pyrene
Concen: 42.389 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:276 Resp: 169039

Ion	Ratio	Lower	Upper
276	100		
138	13.2	10.6	15.8
277	25.9	20.7	31.1



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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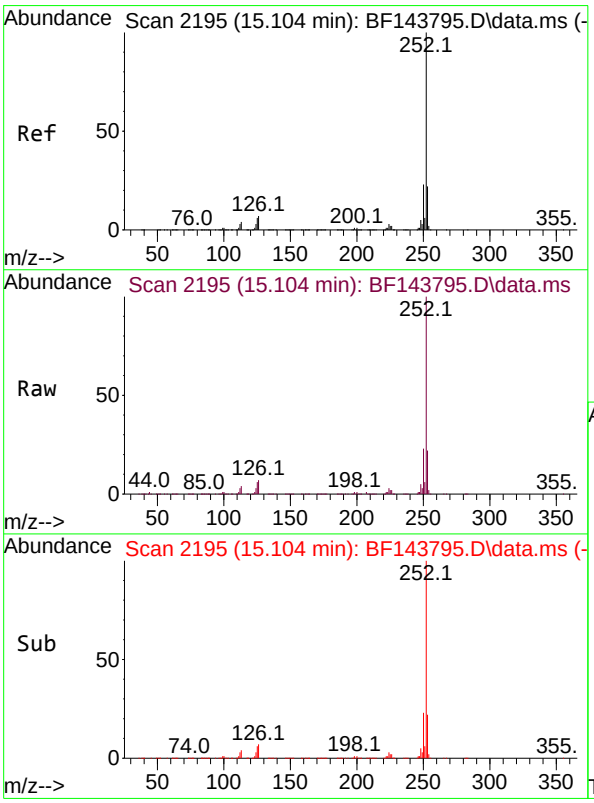
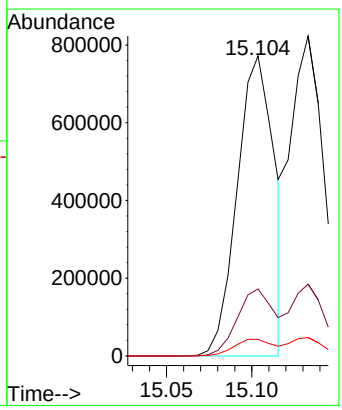
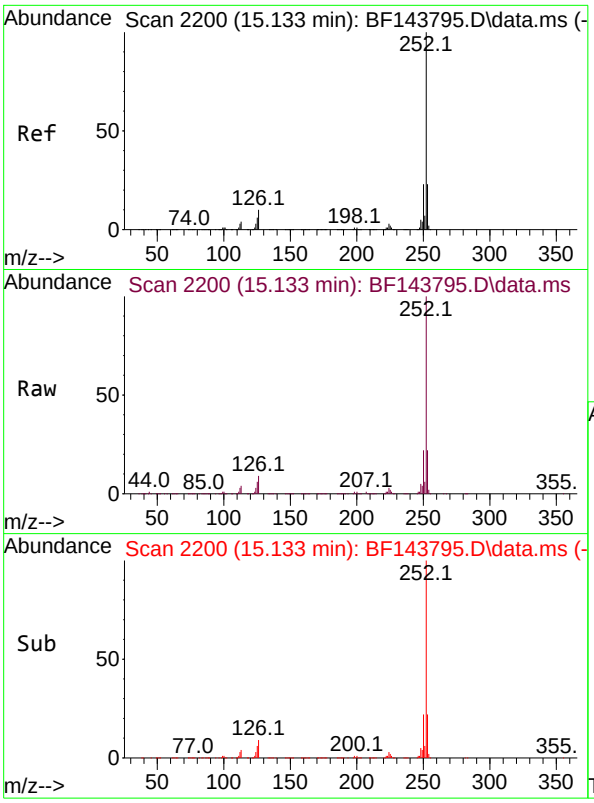


#88
Benzo(b)fluoranthene
Concen: 43.365 ng
RT: 15.104 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:252 Resp: 1160651

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.8	26.8
125	5.5	4.4	6.6

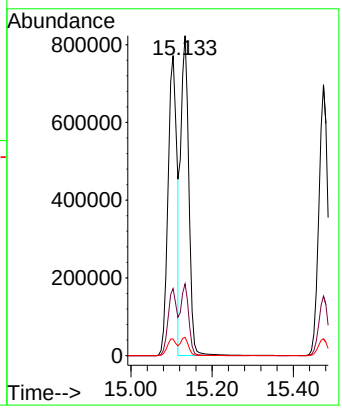




#89
Benzo(k)fluoranthene
Concen: 42.573 ng
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:252 Resp: 114478

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.9	26.9
125	5.7	4.6	6.8



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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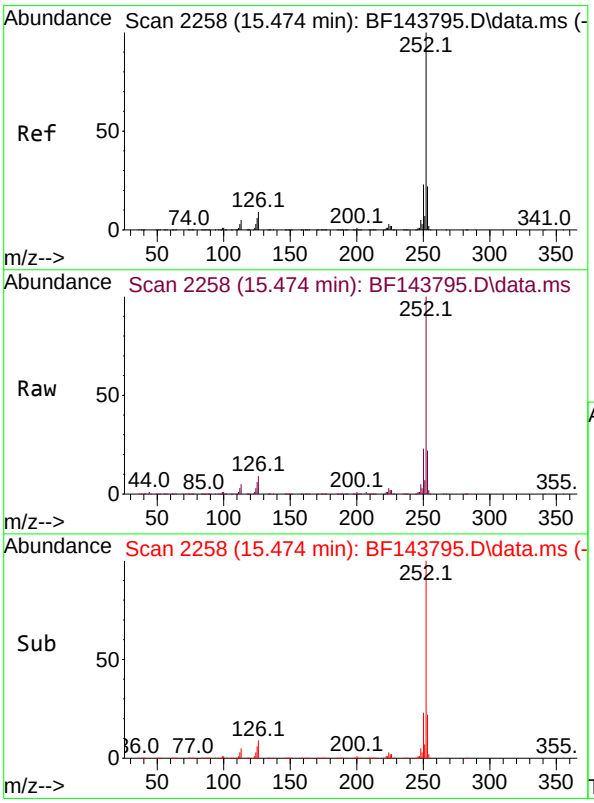
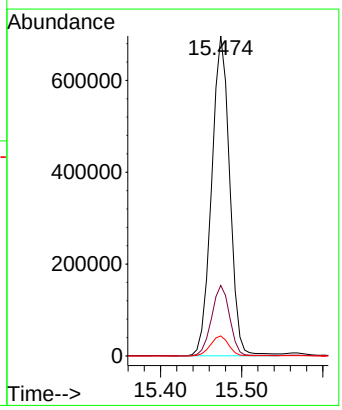
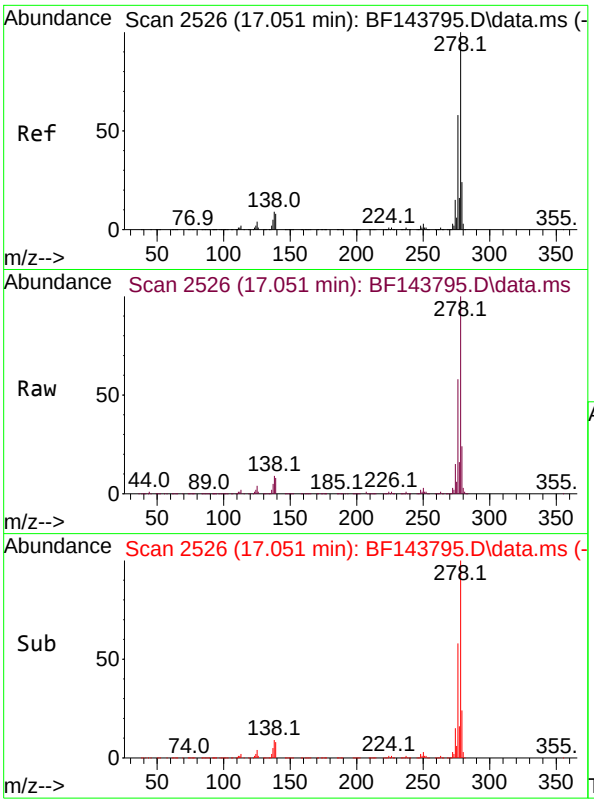


#90
Benzo(a)pyrene
Concen: 42.908 ng
RT: 15.474 min Scan# 2258
Delta R.T. -0.006 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:252 Resp: 1079512

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	6.2	5.0	7.4

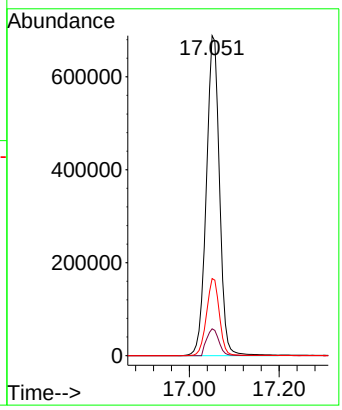




#91
Dibenzo(a,h)anthracene
Concen: 42.920 ng
RT: 17.051 min Scan# 2
Delta R.T. -0.018 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:278 Resp: 139988

Ion	Ratio	Lower	Upper
278	100		
139	8.4	6.7	10.1
279	24.1	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

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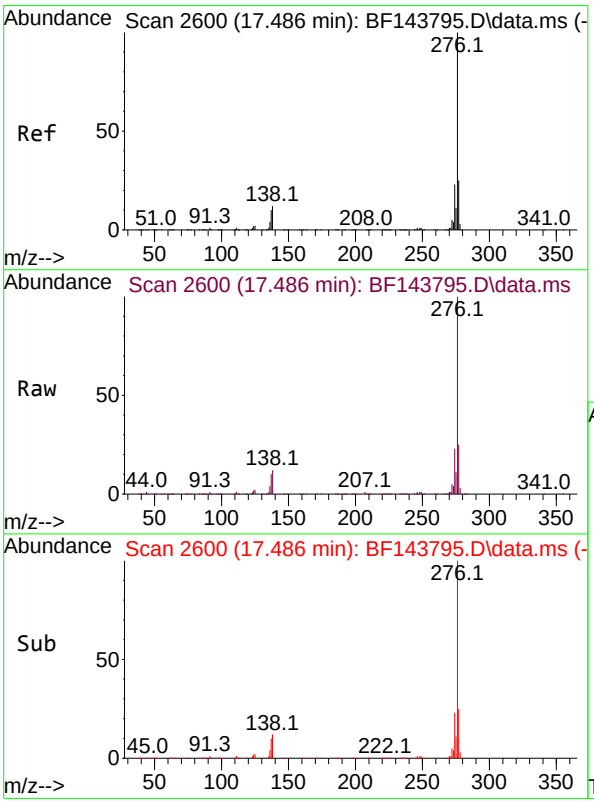
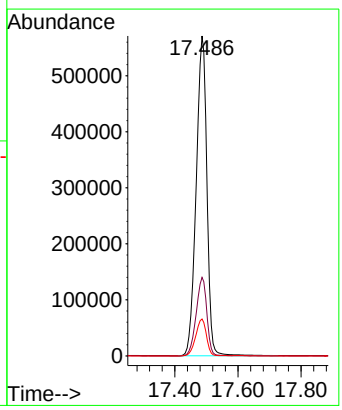


#92
Benzo(g,h,i)perylene
Concen: 42.757 ng
RT: 17.486 min Scan# 2600
Delta R.T. -0.018 min
Lab File: BF143795.D
Acq: 23 Sep 2025 13:59

Tgt Ion:276 Resp: 1344334

Ion	Ratio	Lower	Upper
276	100		
277	24.5	19.6	29.4
138	11.5	9.2	13.8



Quantitation Report (QT Reviewed)

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Acq On : 23 Sep 2025 14:28
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Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 17:06:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	138683	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	501953	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	251921	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	388493	20.000	ng		0.00
76) Chrysene-d12	14.057	240	388120	20.000	ng		0.00
86) Perylene-d12	15.533	264	541272	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.493	112	801520	93.013	ng		0.00
7) Phenol-d6	6.504	99	926468	91.106	ng		0.00
23) Nitrobenzene-d5	7.451	82	808554	101.372	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	354459	98.591	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1453709	85.274	ng		0.00
79) Terphenyl-d14	12.998	244	1903421	96.285	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.646	88	193379	47.331	ng		98
3) Pyridine	3.410	79	532244	48.261	ng		100
4) n-Nitrosodimethylamine	3.357	42	268794	48.607	ng		99
6) Aniline	6.545	93	672706	46.995	ng		99
8) 2-Chlorophenol	6.669	128	419160	47.967	ng		100
9) Benzaldehyde	6.440	77	459911	53.250	ng		98
10) Phenol	6.522	94	531938m	46.401	ng		
11) bis(2-Chloroethyl)ether	6.622	93	423912	47.173	ng		100
12) 1,3-Dichlorobenzene	6.828	146	466330	45.962	ng		98
13) 1,4-Dichlorobenzene	6.904	146	464335	45.859	ng		99
14) 1,2-Dichlorobenzene	7.057	146	442761	46.170	ng		99
15) Benzyl Alcohol	7.022	79	348008	48.833	ng		100
16) 2,2'-oxybis(1-Chloropr...	7.157	45	1004151	47.124	ng		99
17) 2-Methylphenol	7.128	107	325304	48.084	ng		99
18) Hexachloroethane	7.404	117	167022	46.905	ng		96
19) n-Nitroso-di-n-propyla...	7.298	70	292083	46.054	ng		98
20) 3+4-Methylphenols	7.287	107	394272	47.855	ng	#	90
22) Acetophenone	7.298	105	503776	45.695	ng		99
24) Nitrobenzene	7.469	77	448291	49.320	ng		98
25) Isophorone	7.704	82	782800	48.987	ng		100
26) 2-Nitrophenol	7.787	139	188140	50.281	ng		94
27) 2,4-Dimethylphenol	7.816	122	351504	49.214	ng		100
28) bis(2-Chloroethoxy)met...	7.916	93	492835	47.470	ng		100
29) 2,4-Dichlorophenol	8.022	162	342962	48.801	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	345360	47.353	ng		100
31) Naphthalene	8.192	128	1112658	46.304	ng		100
32) Benzoic acid	7.910	122	185973	53.967	ng		96
33) 4-Chloroaniline	8.239	127	405365	48.005	ng		100
34) Hexachlorobutadiene	8.310	225	258638	47.570	ng		99
35) Caprolactam	8.604	113	92410	51.444	ng		95
36) 4-Chloro-3-methylphenol	8.710	107	327629	49.707	ng		97
37) 2-Methylnaphthalene	8.881	142	712848	46.524	ng		99
38) 1-Methylnaphthalene	8.981	142	689609	47.022	ng		100
40) 1,2,4,5-Tetrachloroben...	9.045	216	351998	46.300	ng		99
41) Hexachlorocyclopentadiene	9.034	237	240402	49.894	ng		98
43) 2,4,6-Trichlorophenol	9.157	196	238499	50.100	ng		99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143796.D
Acq On : 23 Sep 2025 14:28
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Quant Time: Sep 23 17:06:47 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Manual Integrations APPROVED

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Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	239256	48.050	ng		99
46) 1,1'-Biphenyl	9.345	154	838250	45.967	ng		99
47) 2-Chloronaphthalene	9.375	162	678591	46.229	ng		99
48) 2-Nitroaniline	9.463	65	239106	53.895	ng		99
49) Acenaphthylene	9.786	152	943926	46.711	ng		100
50) Dimethylphthalate	9.639	163	738918	48.124	ng		100
51) 2,6-Dinitrotoluene	9.704	165	141300	56.010	ng		98
52) Acenaphthene	9.957	154	613218	46.113	ng		99
53) 3-Nitroaniline	9.875	138	163244	53.384	ng		100
54) 2,4-Dinitrophenol	9.975	184	41616	49.728	ng	#	73
55) Dibenzofuran	10.133	168	867169	46.115	ng		100
56) 4-Nitrophenol	10.022	139	121266	49.212	ng		95
57) 2,4-Dinitrotoluene	10.104	165	185701	49.496	ng		99
58) Fluorene	10.475	166	632710	45.259	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	223693	52.440	ng		99
60) Diethylphthalate	10.345	149	692482	48.178	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	332223	46.640	ng		98
62) 4-Nitroaniline	10.486	138	152165	52.923	ng		99
63) Azobenzene	10.628	77	722936	47.725	ng		99
65) 4,6-Dinitro-2-methylph...	10.516	198	72195	50.124	ng		90
66) n-Nitrosodiphenylamine	10.586	169	603084	47.203	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	324243	48.975	ng		99
68) Hexachlorobenzene	11.022	284	433735	47.539	ng		99
69) Atrazine	11.110	200	180897	48.894	ng		98
70) Pentachlorophenol	11.216	266	231733	51.024	ng		99
71) Phenanthrene	11.439	178	920438	46.149	ng		100
72) Anthracene	11.492	178	936801	46.825	ng		99
73) Carbazole	11.639	167	814499	46.564	ng		100
74) Di-n-butylphthalate	11.975	149	990005	49.211	ng		100
75) Fluoranthene	12.627	202	926047	46.163	ng		99
77) Benzidine	12.751	184	553563	58.531	ng		99
78) Pyrene	12.857	202	960254	50.323	ng		99
80) Butylbenzylphthalate	13.474	149	356288	53.969	ng		99
81) Benzo(a)anthracene	14.045	228	1009406	48.411	ng		99
82) 3,3'-Dichlorobenzidine	14.010	252	445355	49.304	ng		100
83) Chrysene	14.086	228	882028	46.750	ng		100
84) Bis(2-ethylhexyl)phtha...	14.039	149	489947	50.632	ng		100
85) Di-n-octyl phthalate	14.651	149	875478	49.877	ng		99
87) Indeno(1,2,3-cd)pyrene	17.033	276	2041373	49.707	ng		99
88) Benzo(b)fluoranthene	15.104	252	1356316	49.206	ng		100
89) Benzo(k)fluoranthene	15.133	252	1347591	48.662	ng		100
90) Benzo(a)pyrene	15.474	252	1283604	49.541	ng		100
91) Dibenzo(a,h)anthracene	17.057	278	1673679	49.826	ng		99
92) Benzo(g,h,i)perylene	17.486	276	1623902	50.151	ng		100

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

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143796.D
Acq On : 23 Sep 2025 14:28
Operator : RC/JU
Sample : SSTDICC050
Misc :
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Sep 23 17:06:47 2025
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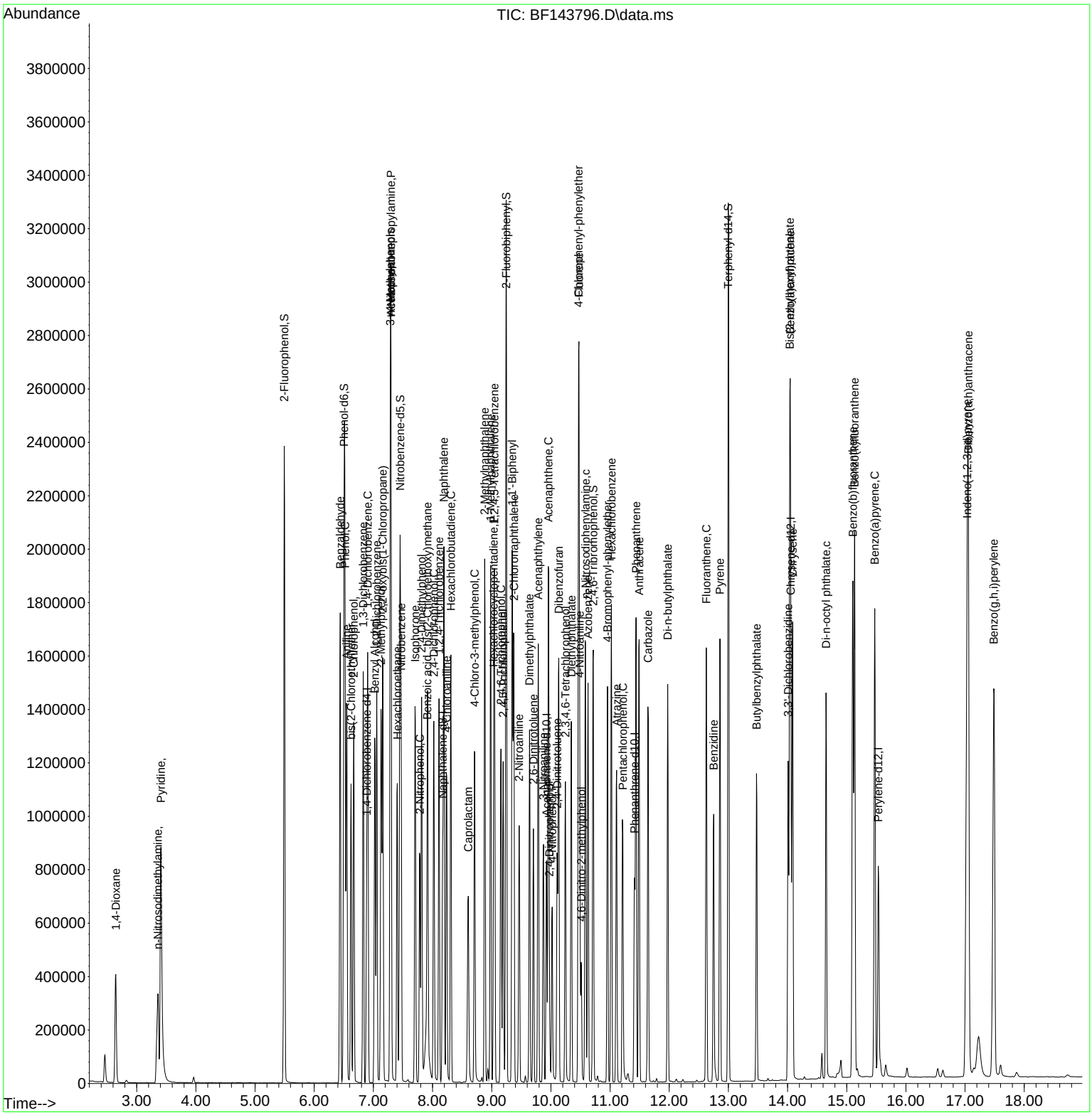
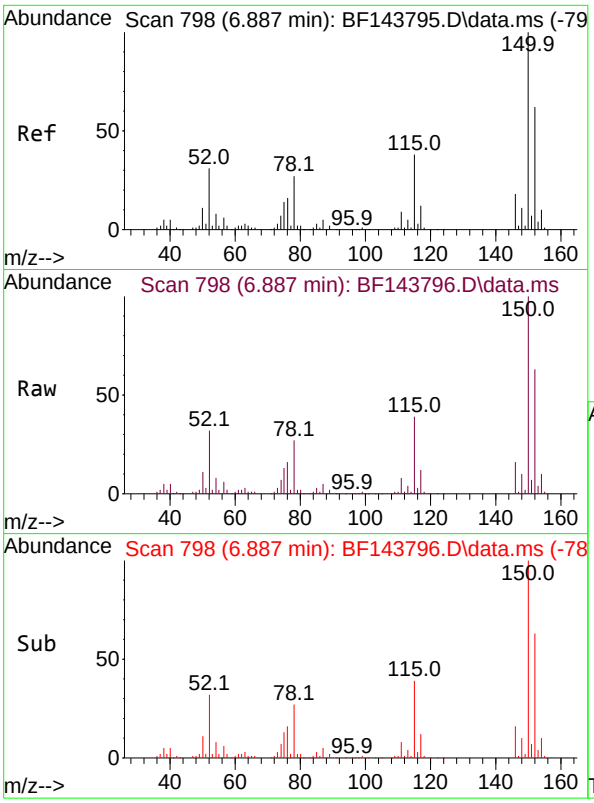
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

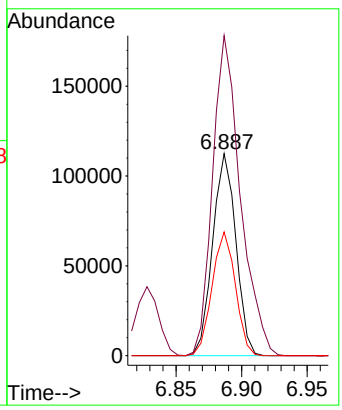




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 79
Delta R.T. -0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:152 Resp: 13868

Ion	Ratio	Lower	Upper
152	100		
150	158.4	129.6	194.4
115	61.2	49.0	73.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

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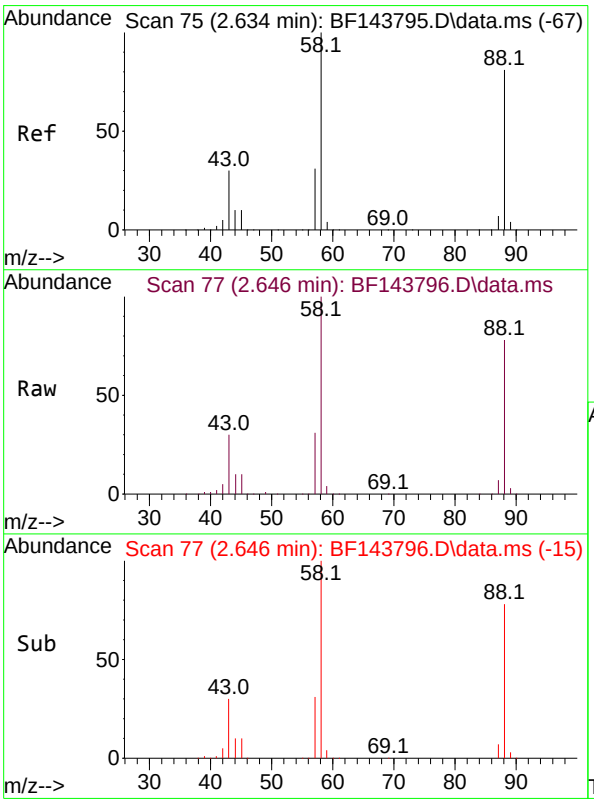
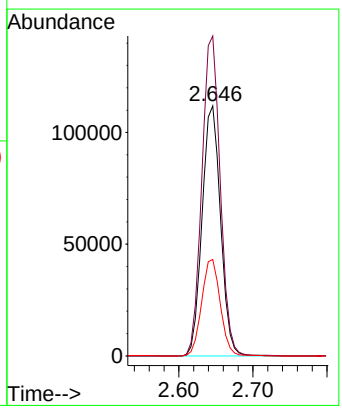
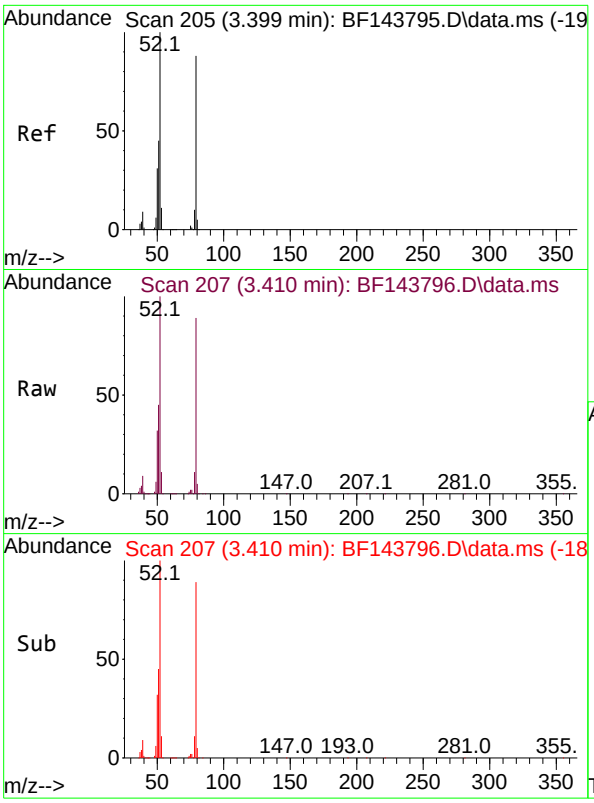


#2
1,4-Dioxane
Concen: 47.331 ng
RT: 2.646 min Scan# 77
Delta R.T. 0.012 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 88 Resp: 193379

Ion	Ratio	Lower	Upper
88	100		
58	127.4	99.4	149.2
43	38.9	30.6	45.8

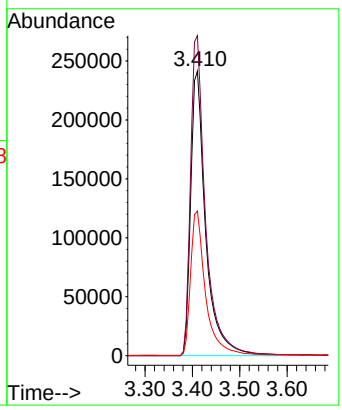




#3
Pyridine
Concen: 48.261 ng
RT: 3.410 min Scan# 2
Delta R.T. 0.012 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 79 Resp: 53224

Ion	Ratio	Lower	Upper
79	100		
52	112.5	90.5	135.7
51	50.8	40.6	61.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
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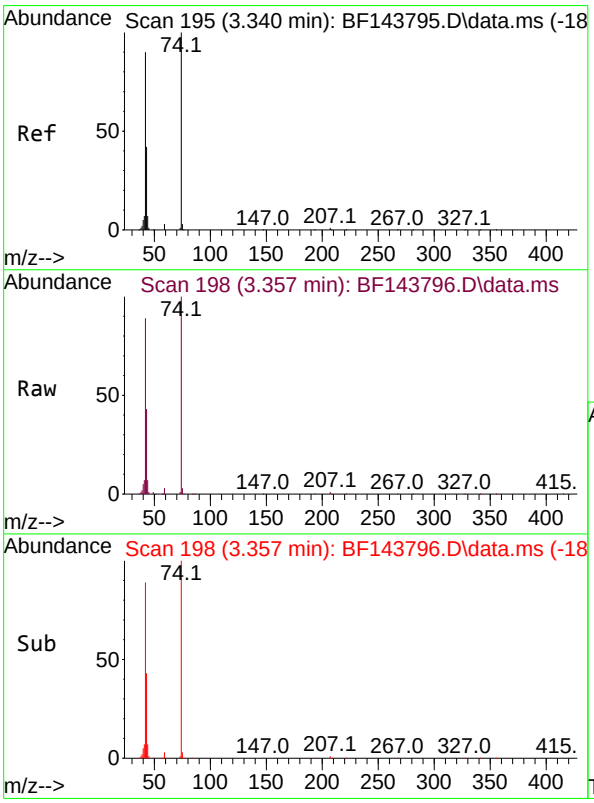
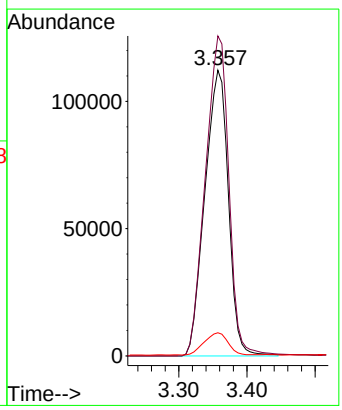
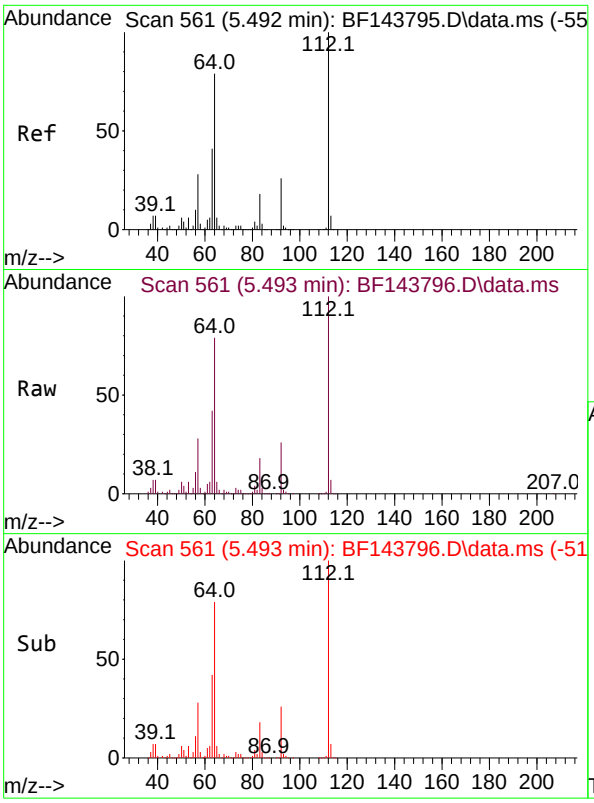


#4
n-Nitrosodimethylamine
Concen: 48.607 ng
RT: 3.357 min Scan# 198
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 42 Resp: 268794

Ion	Ratio	Lower	Upper
42	100		
74	112.0	89.1	133.7
44	8.1	6.4	9.6





#5
2-Fluorophenol
Concen: 93.013 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:112 Resp: 80152

Ion	Ratio	Lower	Upper
112	100		
64	79.4	63.0	94.4
63	42.3	32.6	49.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
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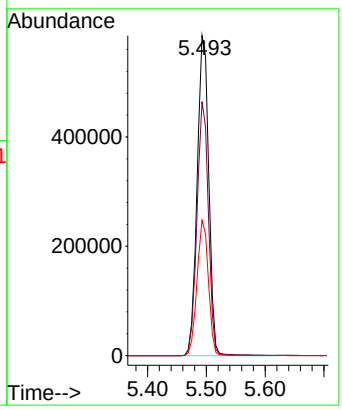
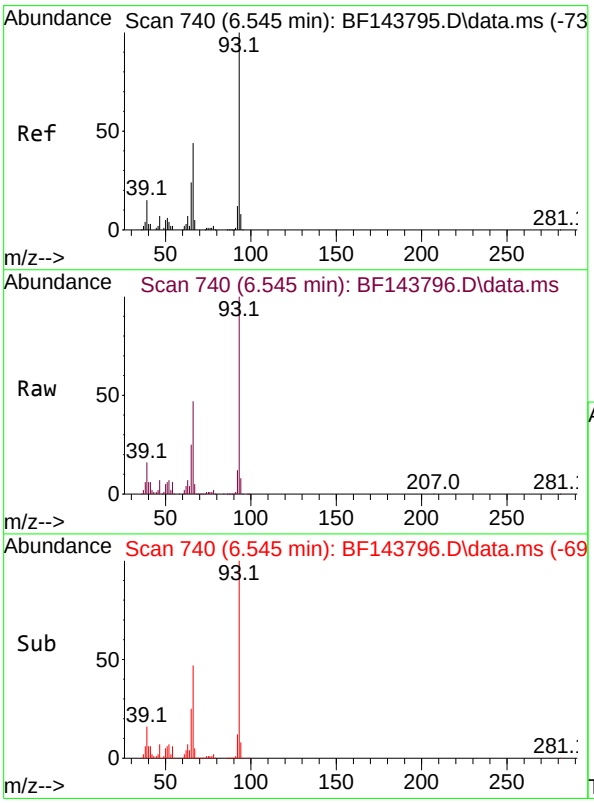
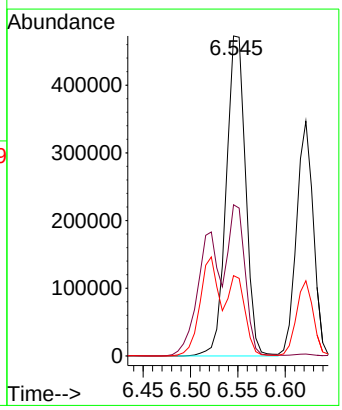


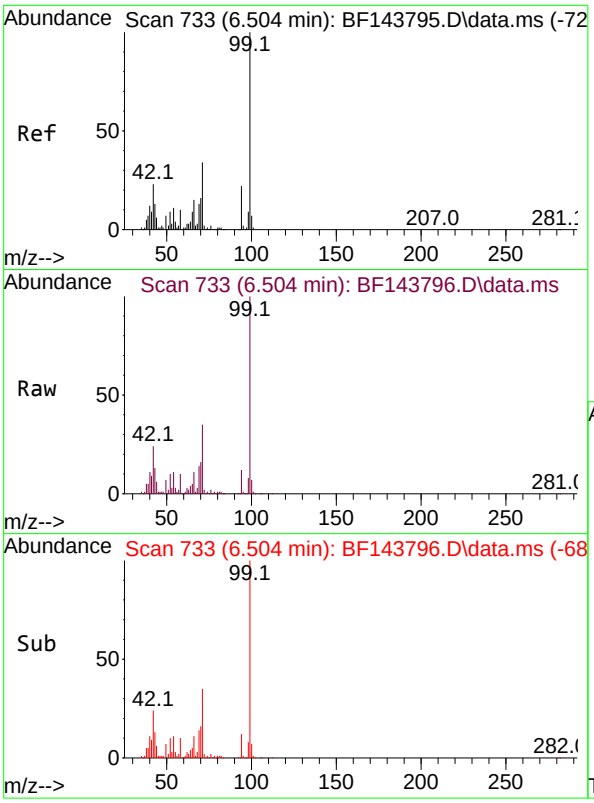


#6
Aniline
Concen: 46.995 ng
RT: 6.545 min Scan# 740
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 93 Resp: 672706

Ion	Ratio	Lower	Upper
93	100		
66	47.2	37.1	55.7
65	25.1	19.4	29.0

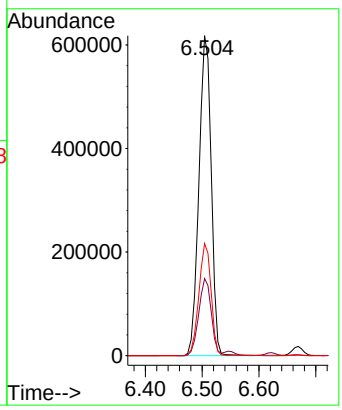




#7
Phenol-d6
Concen: 91.106 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 99 Resp: 92646

Ion	Ratio	Lower	Upper
99	100		
42	24.1	18.6	28.0
71	35.0	27.0	40.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
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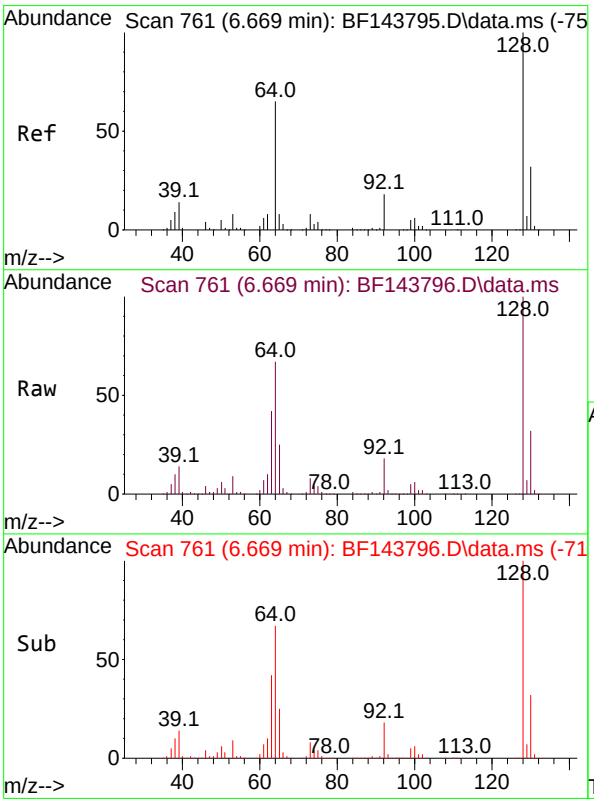
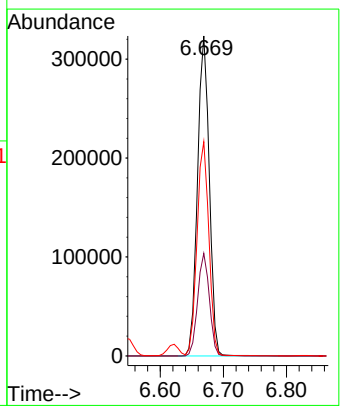
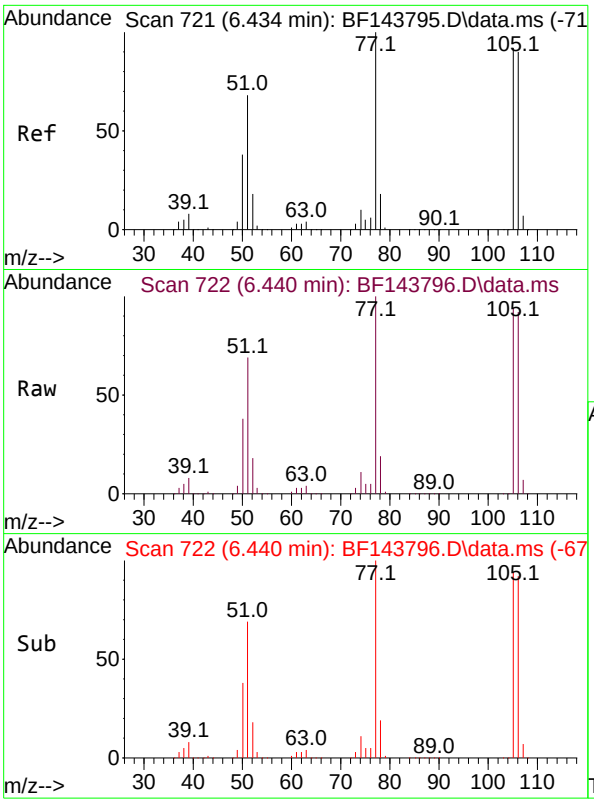


#8
2-Chlorophenol
Concen: 47.967 ng
RT: 6.669 min Scan# 761
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:128 Resp: 419160

Ion	Ratio	Lower	Upper
128	100		
130	32.0	12.2	52.2
64	66.9	46.5	86.5

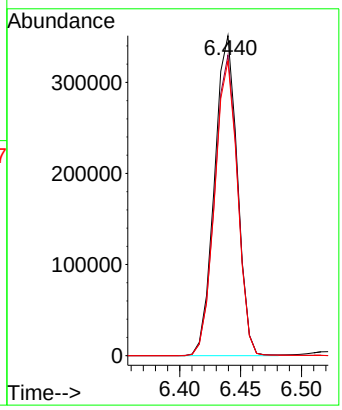




#9
Benzaldehyde
Concen: 53.250 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 77 Resp: 45991

Ion	Ratio	Lower	Upper
77	100		
105	93.9	71.8	111.8
106	92.0	69.8	109.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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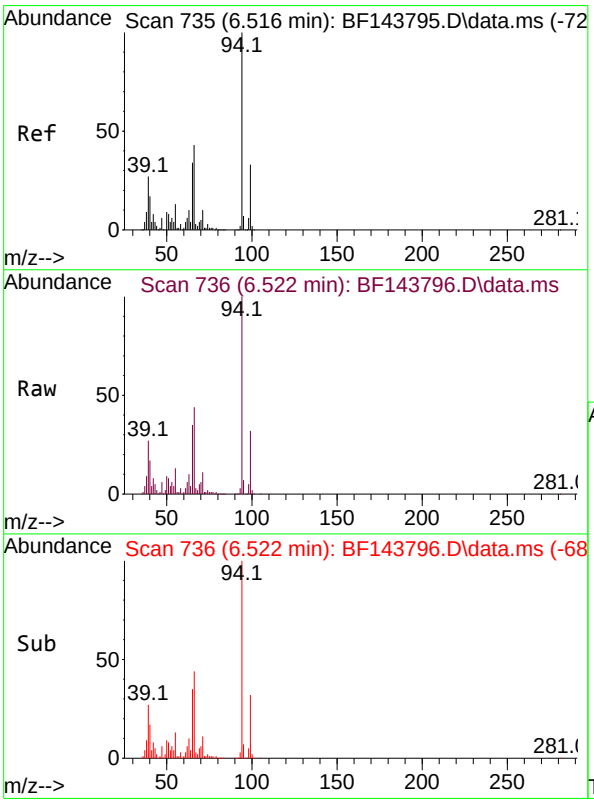
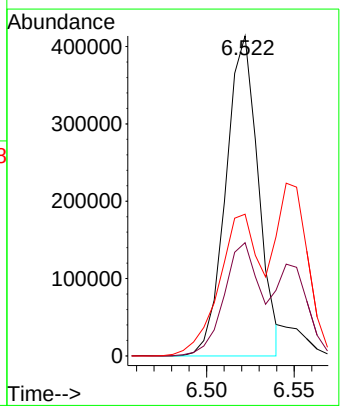
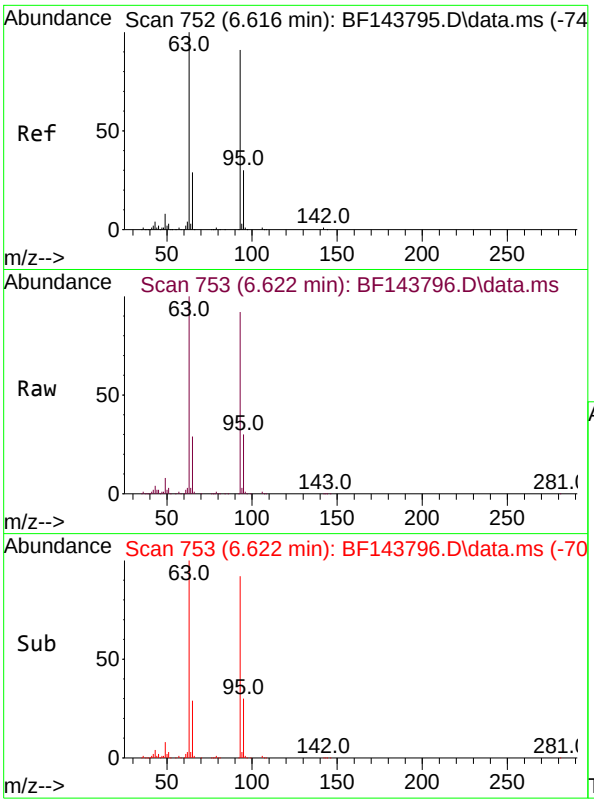


#10
Phenol
Concen: 46.401 ng m
RT: 6.522 min Scan# 736
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 94 Resp: 531938

Ion	Ratio	Lower	Upper
94	100		
65	35.4	14.2	54.2
66	44.3	24.1	64.1

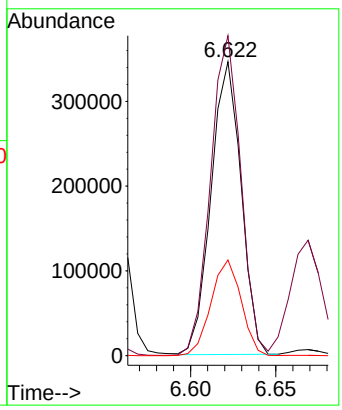




#11
bis(2-Chloroethyl)ether
Concen: 47.173 ng
RT: 6.622 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 93 Resp: 42391

Ion	Ratio	Lower	Upper
93	100		
63	108.9	89.2	129.2
95	32.5	12.9	52.9



Instrument :
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ClientSampleId :
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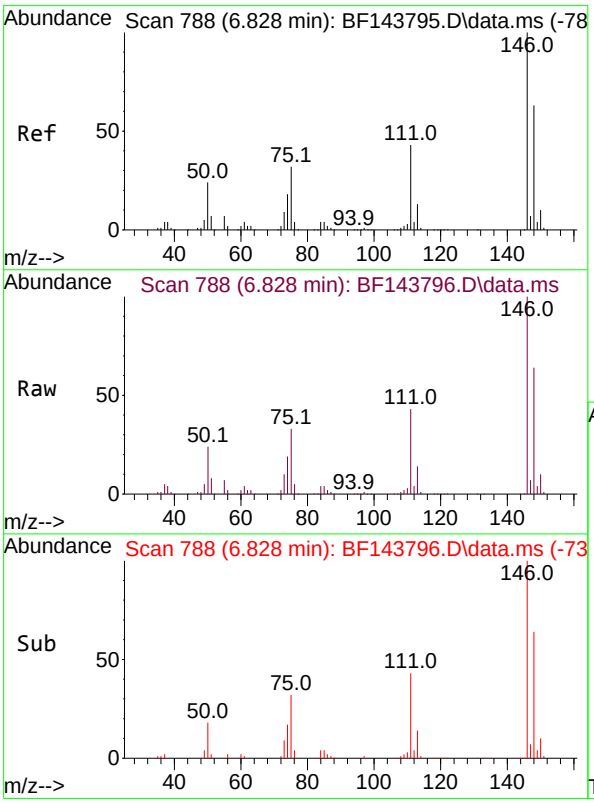
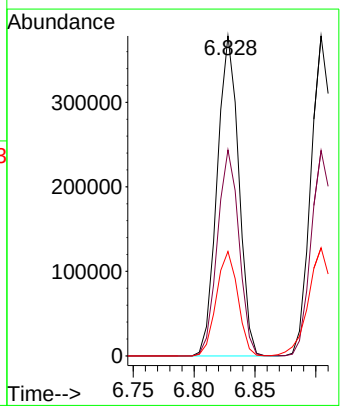
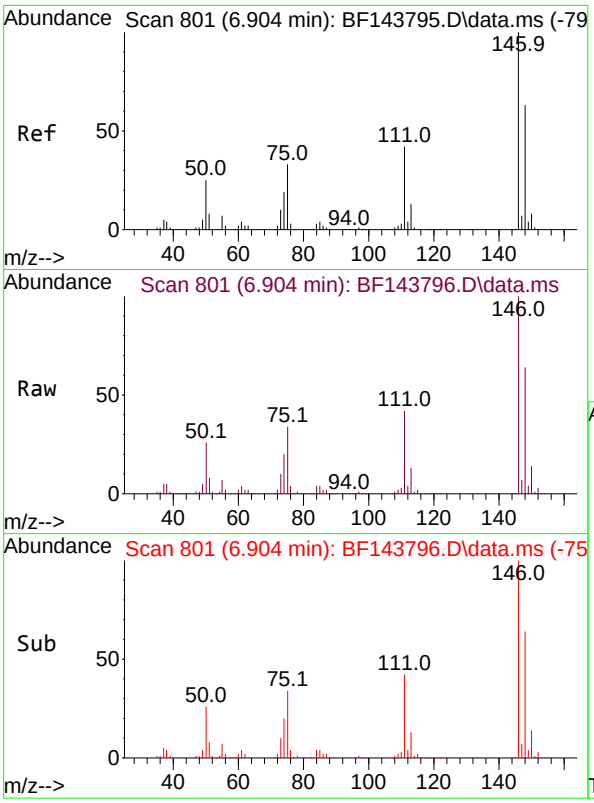


#12
1,3-Dichlorobenzene
Concen: 45.962 ng
RT: 6.828 min Scan# 788
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:146 Resp: 466330

Ion	Ratio	Lower	Upper
146	100		
148	64.4	50.4	75.6
75	32.6	25.6	38.4

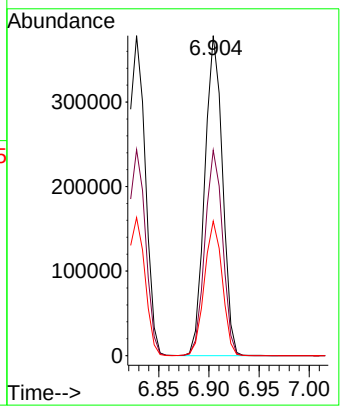




#13
1,4-Dichlorobenzene
Concen: 45.859 ng
RT: 6.904 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:146 Resp: 46433

Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.7	76.1
111	42.0	33.4	50.2



Instrument :
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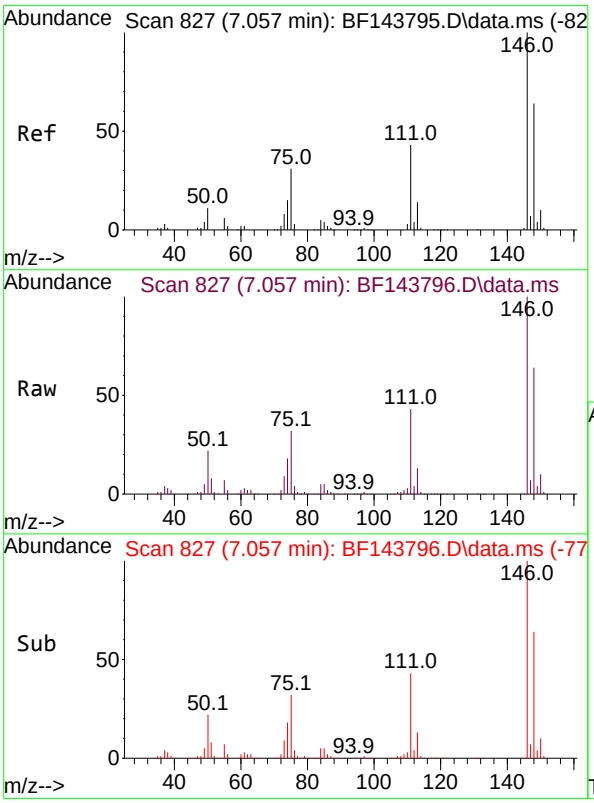
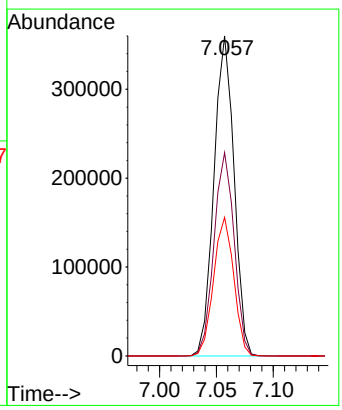
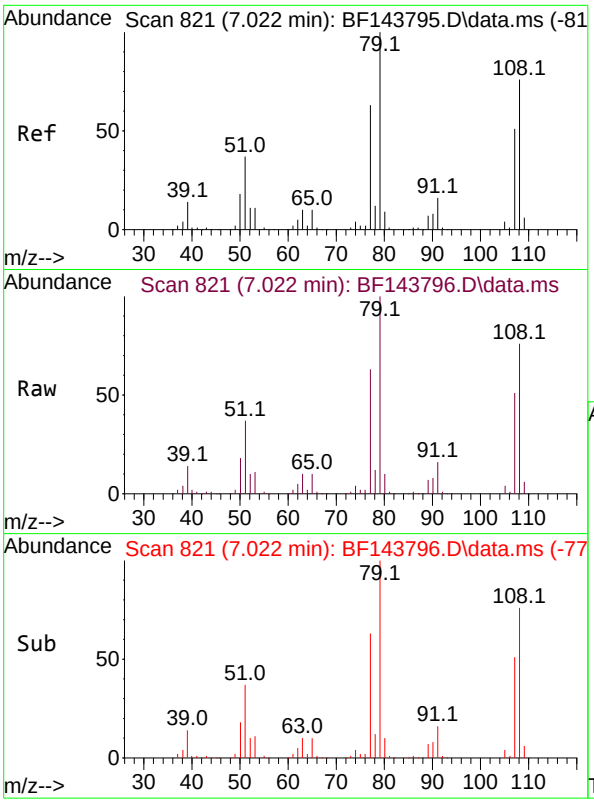


#14
1,2-Dichlorobenzene
Concen: 46.170 ng
RT: 7.057 min Scan# 827
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:146 Resp: 442761

Ion	Ratio	Lower	Upper
146	100		
148	63.6	51.1	76.7
111	43.3	34.3	51.5





#15
Benzyl Alcohol
Concen: 48.833 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 79 Resp: 34800

Ion	Ratio	Lower	Upper
79	100		
108	75.6	60.5	90.7
77	63.4	50.3	75.5

Instrument :
BNA_F
ClientSampleId :
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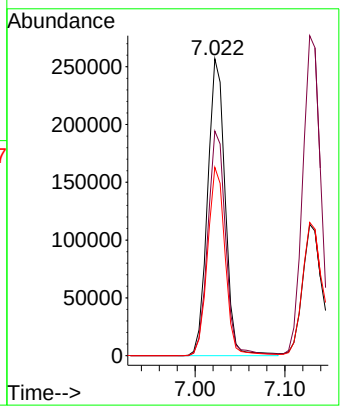
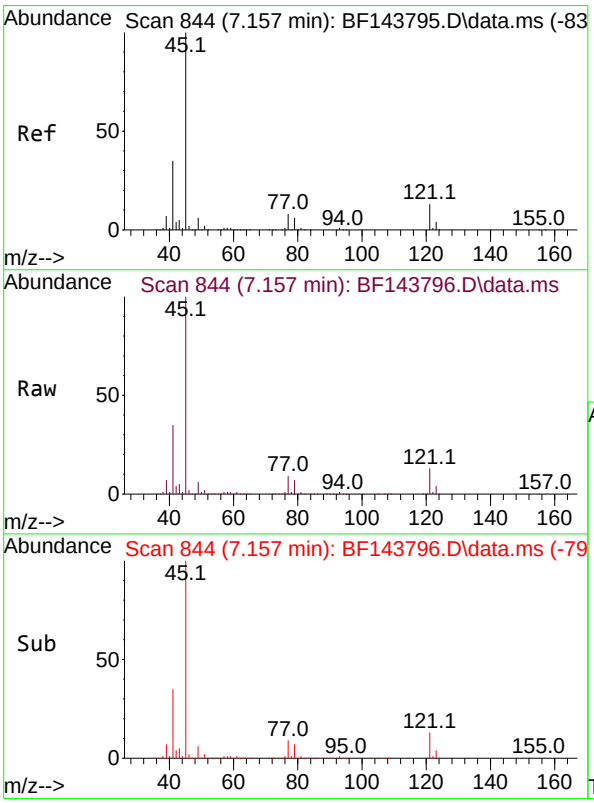
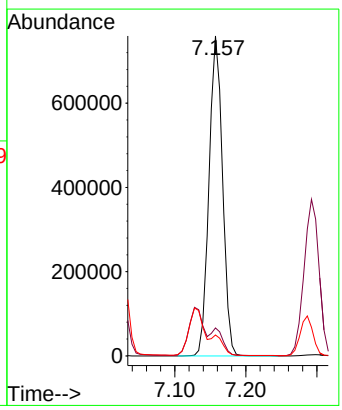


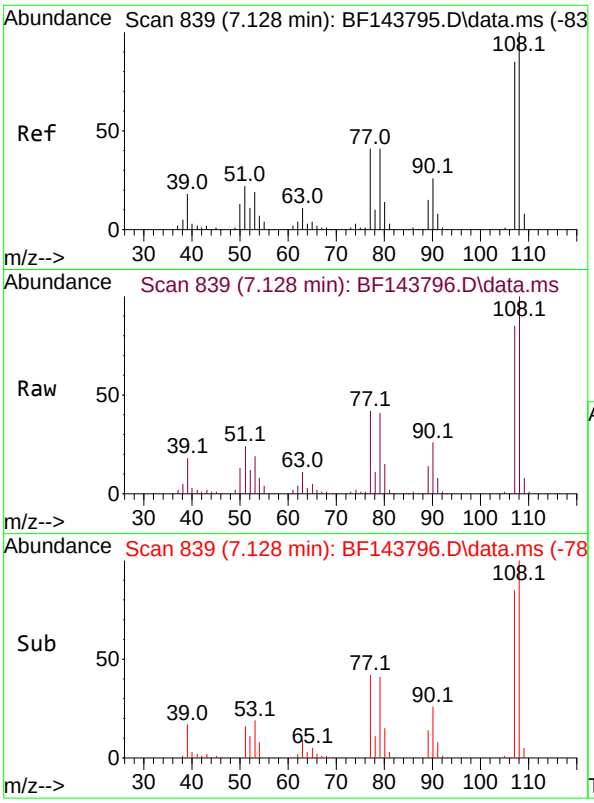


#16
2,2'-oxybis(1-Chloropropane)
Concen: 47.124 ng
RT: 7.157 min Scan# 844
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 45 Resp: 1004151

Ion	Ratio	Lower	Upper
45	100		
77	8.8	0.0	28.5
79	6.5	0.0	26.3

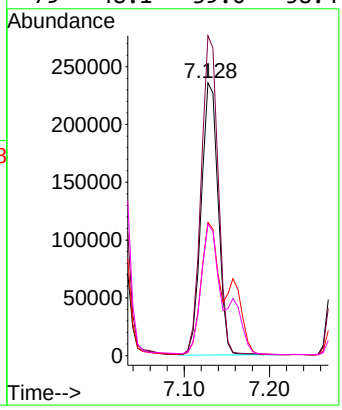




#17
2-Methylphenol
Concen: 48.084 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:107 Resp: 32530

Ion	Ratio	Lower	Upper
107	100		
108	117.3	94.2	141.4
77	48.8	38.6	58.0
79	48.1	39.0	58.4



Instrument :
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ClientSampleId :
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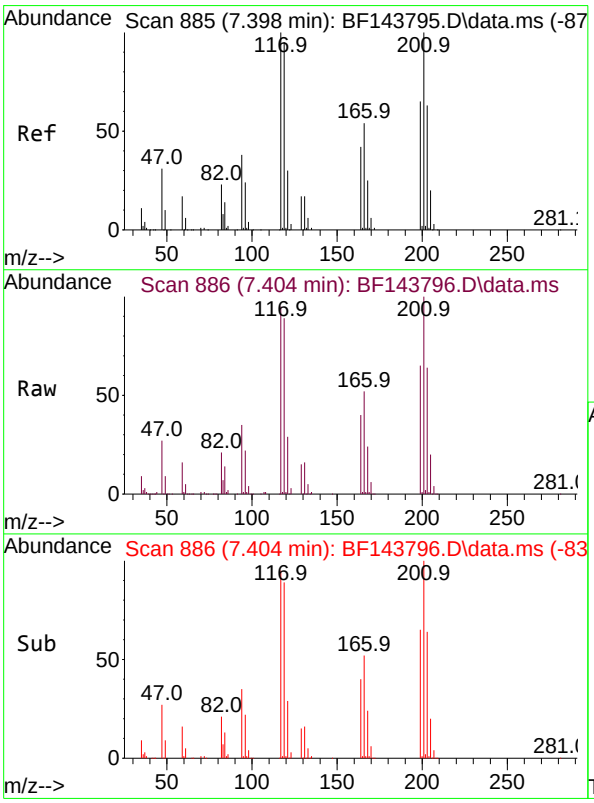
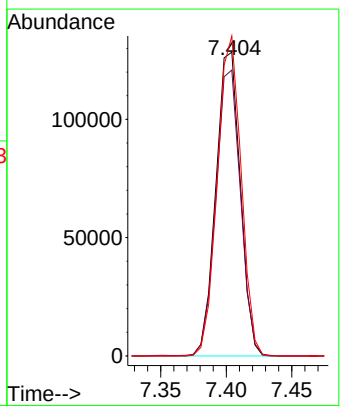
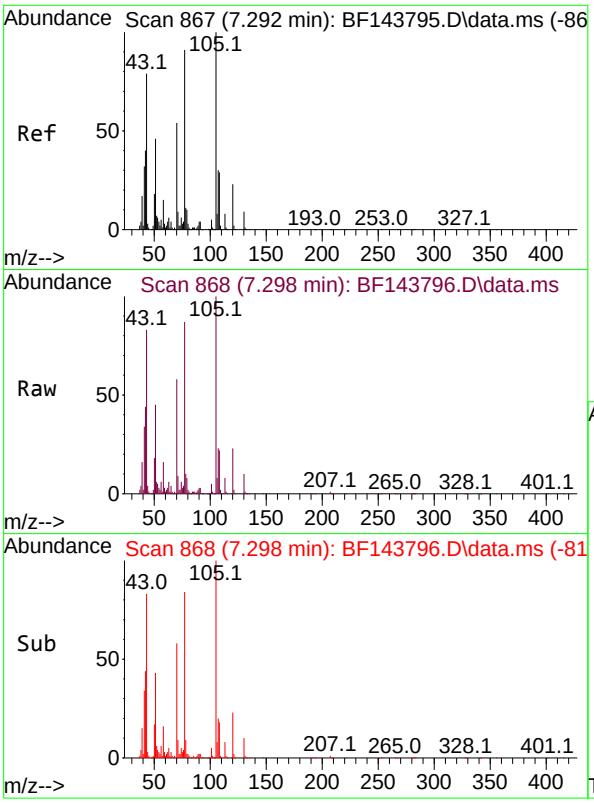


#18
Hexachloroethane
Concen: 46.905 ng
RT: 7.404 min Scan# 886
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:117 Resp: 167022

Ion	Ratio	Lower	Upper
117	100		
119	94.1	76.2	114.2
201	105.4	79.7	119.5

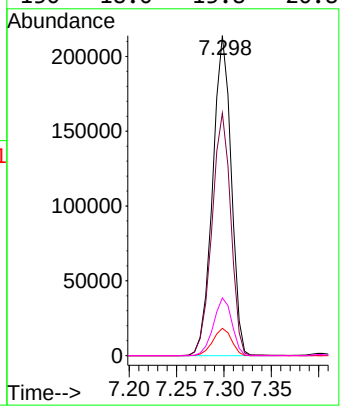




#19
n-Nitroso-di-n-propylamine
Concen: 46.054 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 70 Resp: 29208

Ion	Ratio	Lower	Upper
70	100		
42	75.8	59.4	89.0
101	8.5	7.1	10.7
130	18.0	13.8	20.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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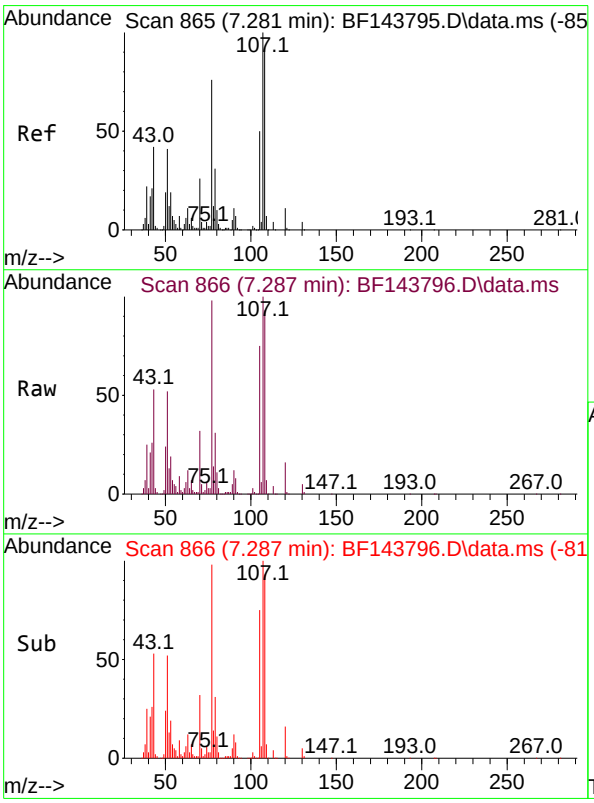
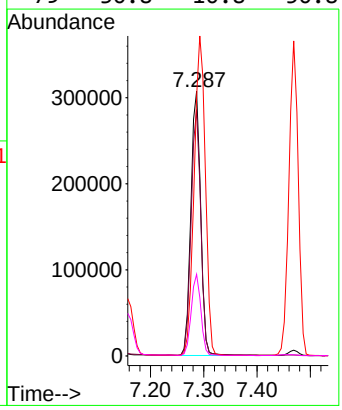
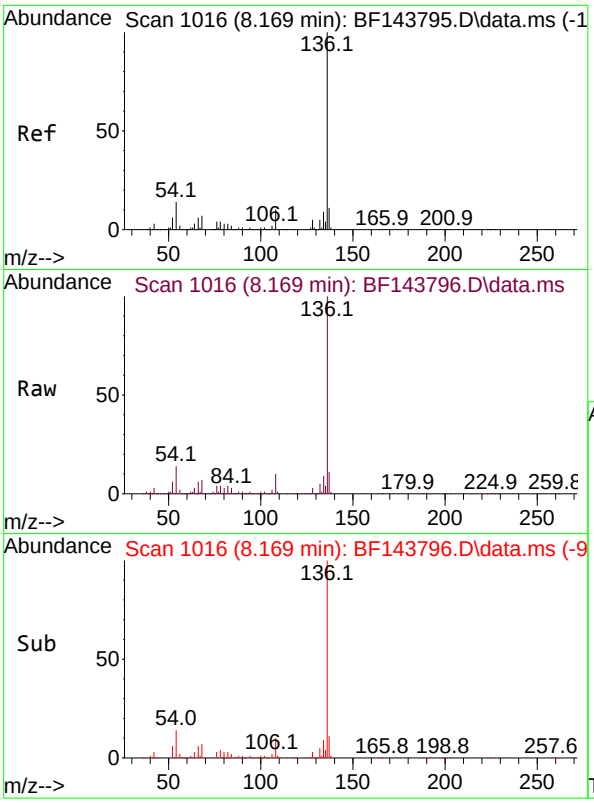


#20
3+4-Methylphenols
Concen: 47.855 ng
RT: 7.287 min Scan# 866
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:107 Resp: 394272

Ion	Ratio	Lower	Upper
107	100		
108	93.1	72.5	112.5
77	98.0	56.2	96.2#
79	30.8	10.8	50.8

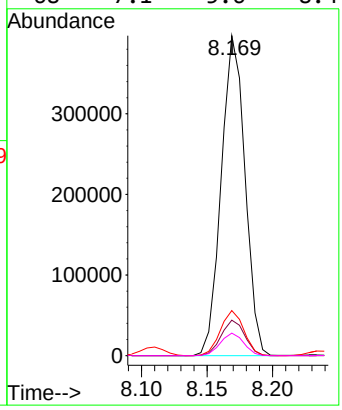




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 10
Delta R.T. -0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:136 Resp: 50195

Ion	Ratio	Lower	Upper
136	100		
137	11.1	9.0	13.4
54	14.1	11.2	16.8
68	7.1	5.6	8.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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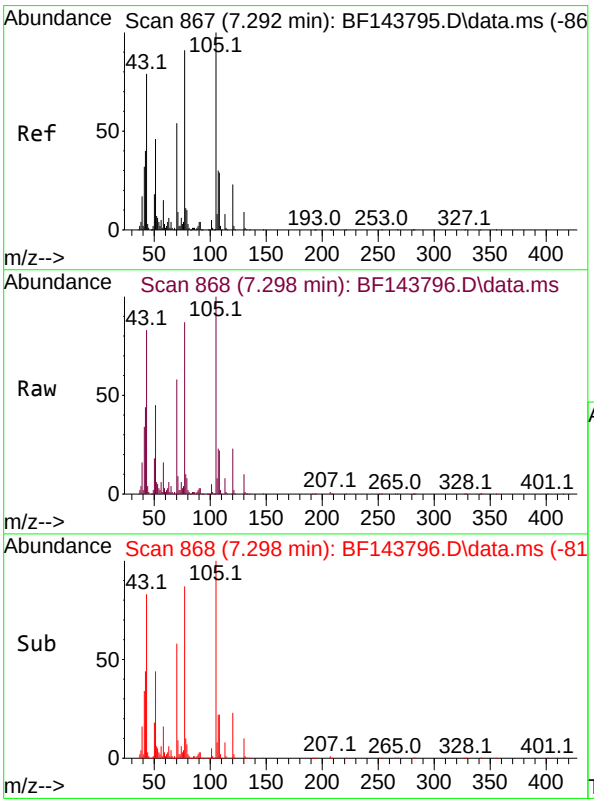
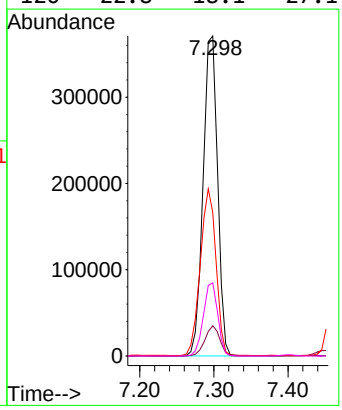
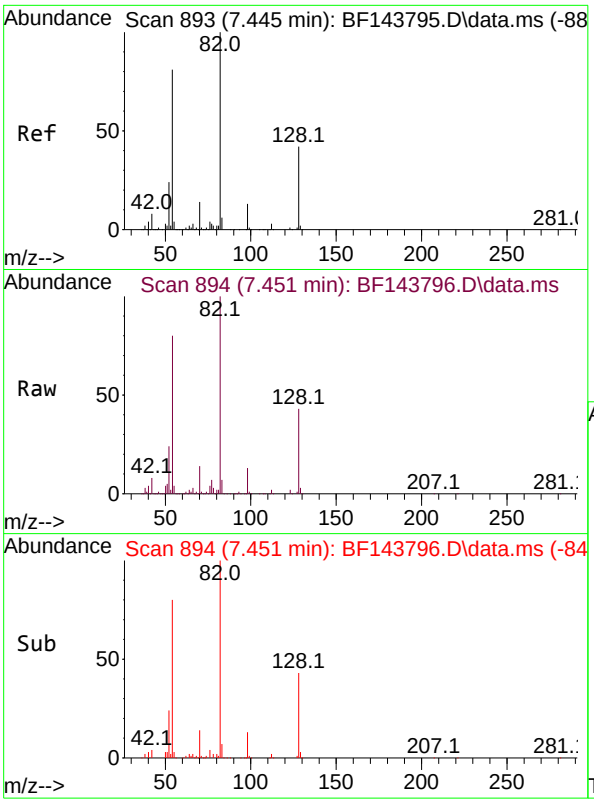


#22
Acetophenone
Concen: 45.695 ng
RT: 7.298 min Scan# 868
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:105 Resp: 503776

Ion	Ratio	Lower	Upper
105	100		
71	9.4	7.0	10.4
51	44.8	36.6	55.0
120	22.8	18.1	27.1

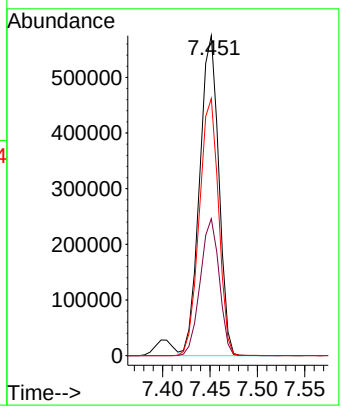




#23
Nitrobenzene-d5
Concen: 101.372 ng
RT: 7.451 min Scan# 89
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 82 Resp: 80855

Ion	Ratio	Lower	Upper
82	100		
128	42.8	33.3	49.9
54	80.3	64.2	96.4



Instrument :
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ClientSampleId :
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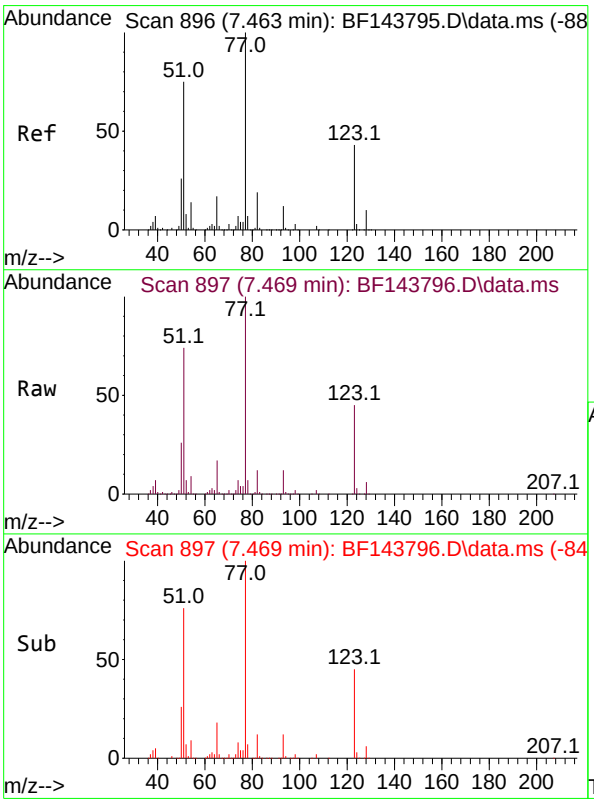
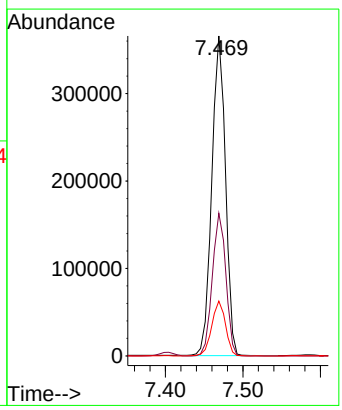
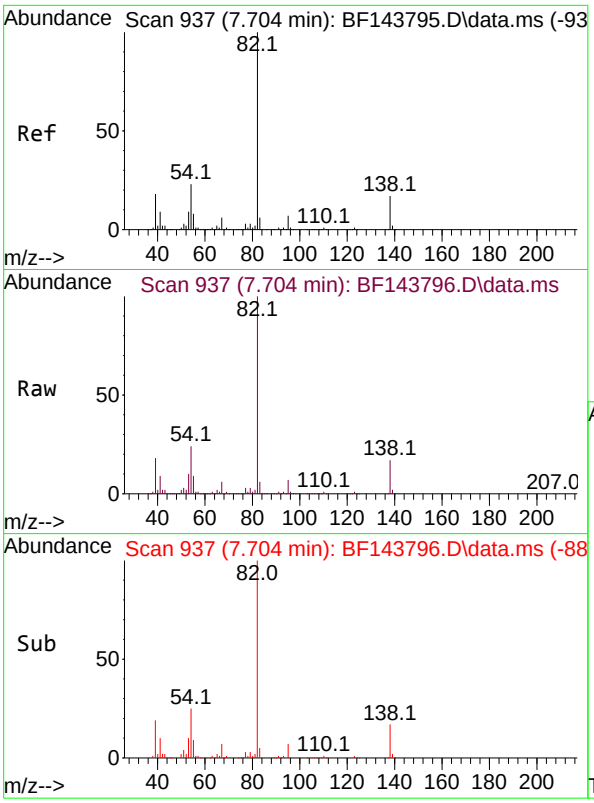


#24
Nitrobenzene
Concen: 49.320 ng
RT: 7.469 min Scan# 897
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 77 Resp: 448291

Ion	Ratio	Lower	Upper
77	100		
123	44.6	34.0	51.0
65	17.1	13.5	20.3

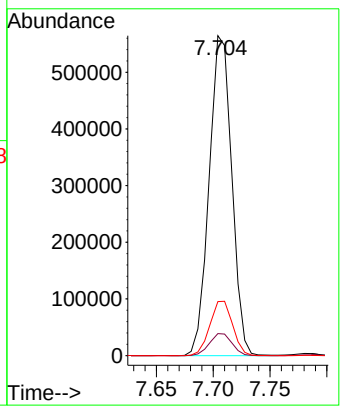




#25
Isophorone
Concen: 48.987 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 82 Resp: 78280

Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.4	8.2
138	16.9	13.7	20.5



Instrument :
BNA_F
ClientSampleId :
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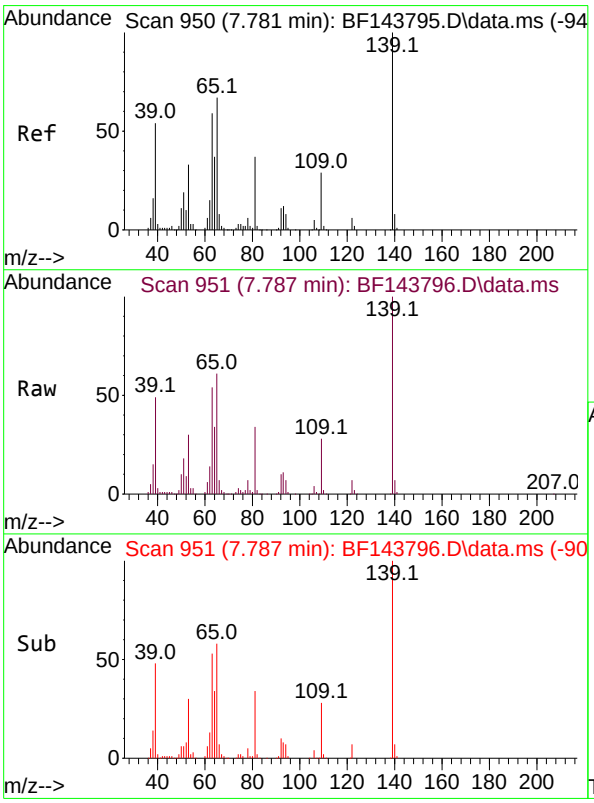
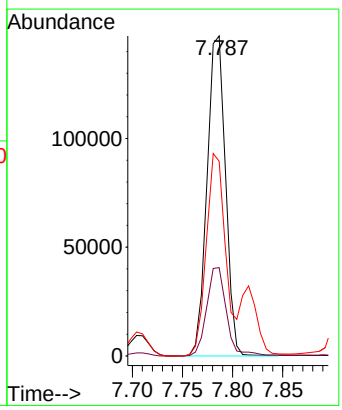
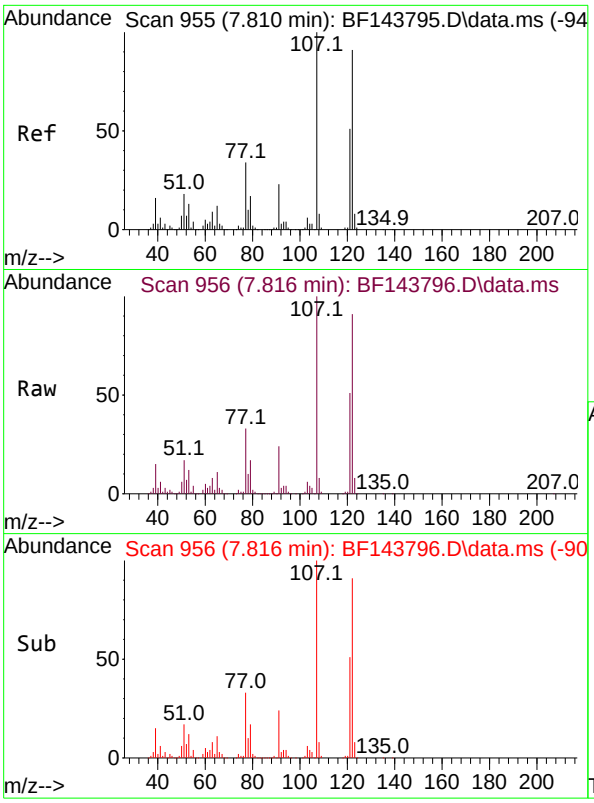


#26
2-Nitrophenol
Concen: 50.281 ng
RT: 7.787 min Scan# 951
Delta R.T. 0.001 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:139 Resp: 188140

Ion	Ratio	Lower	Upper
139	100		
109	27.6	23.3	34.9
65	60.8	53.8	80.6

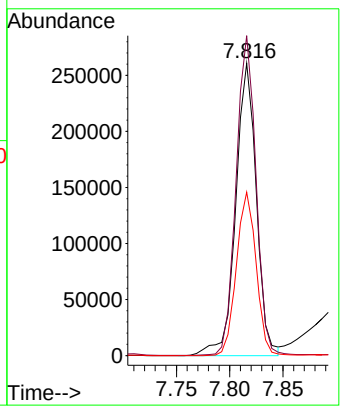




#27
2,4-Dimethylphenol
Concen: 49.214 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:122 Resp: 35150

Ion	Ratio	Lower	Upper
122	100		
107	109.4	87.5	131.3
121	55.9	44.2	66.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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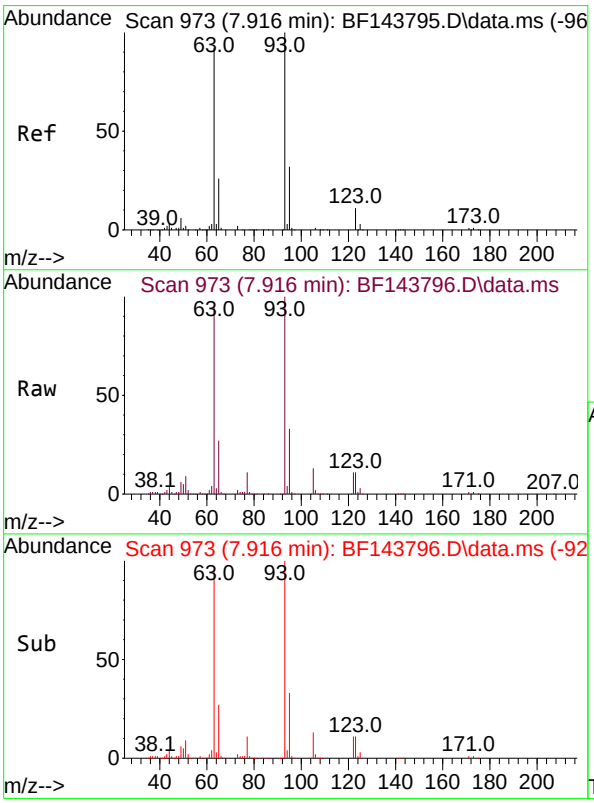
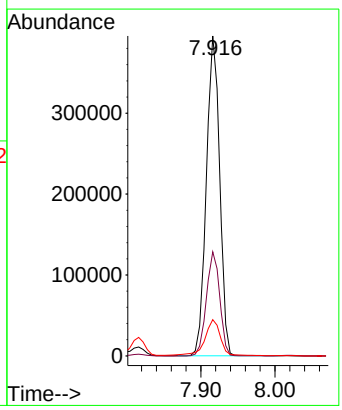
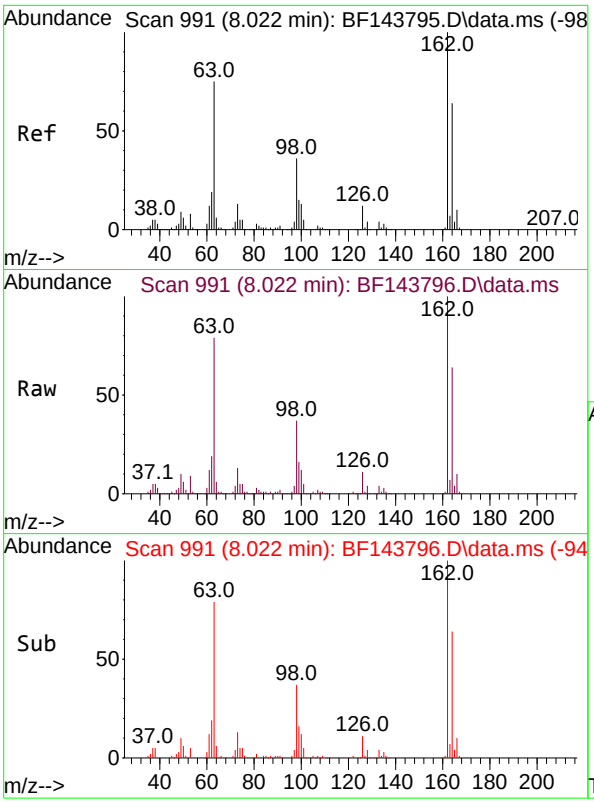


#28
bis(2-Chloroethoxy)methane
Concen: 47.470 ng
RT: 7.916 min Scan# 973
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 93 Resp: 492835

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.8	38.8
123	11.3	8.8	13.2

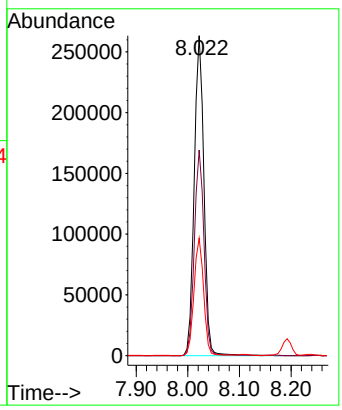




#29
2,4-Dichlorophenol
Concen: 48.801 ng
RT: 8.022 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:162 Resp: 34296

Ion	Ratio	Lower	Upper
162	100		
164	64.2	44.1	84.1
98	36.7	15.8	55.8



Instrument :
BNA_F
ClientSampleId :
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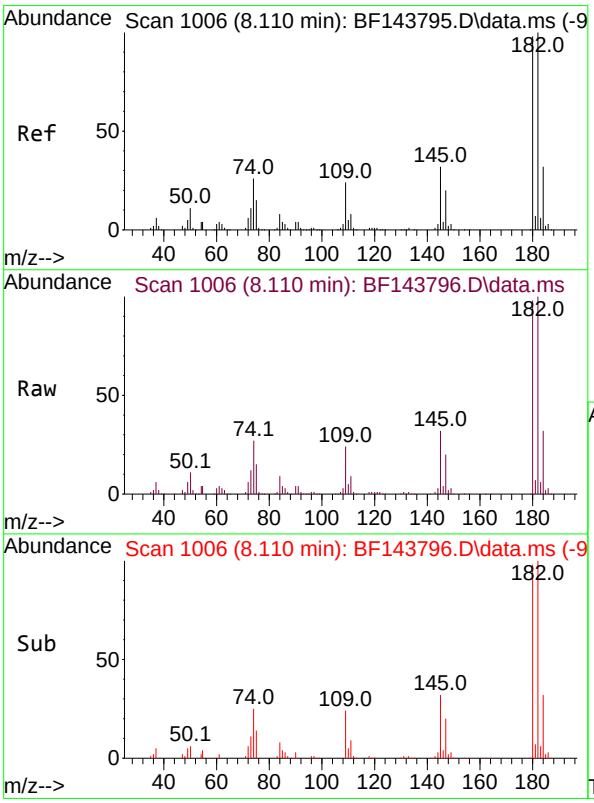
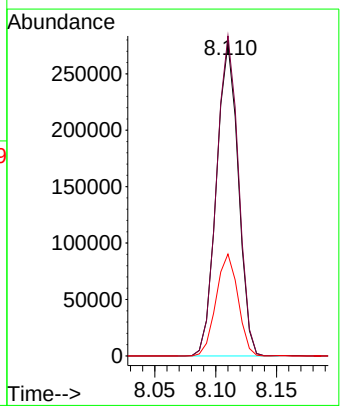
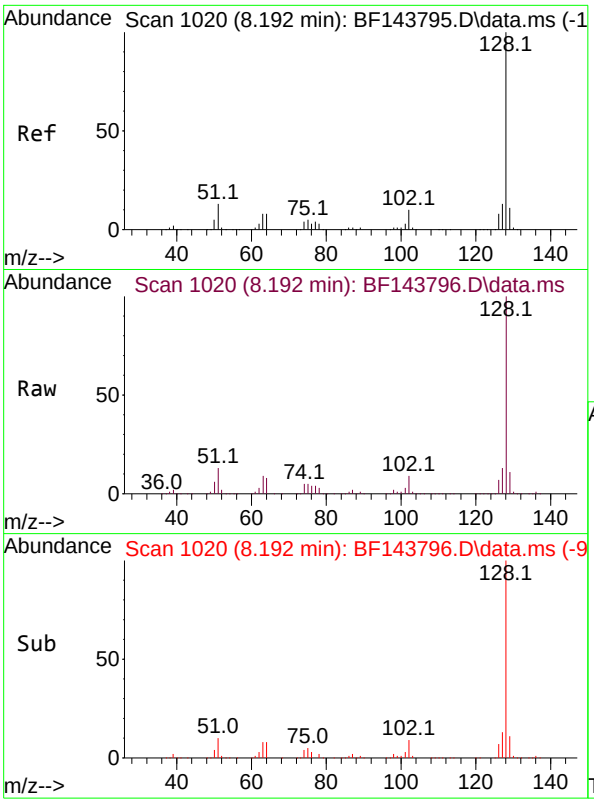


#30
1,2,4-Trichlorobenzene
Concen: 47.353 ng
RT: 8.110 min Scan# 1006
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:180 Resp: 345360

Ion	Ratio	Lower	Upper
180	100		
182	102.5	82.0	123.0
145	32.6	25.9	38.9

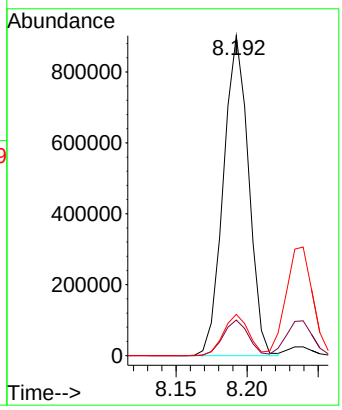




#31
Naphthalene
Concen: 46.304 ng
RT: 8.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:128 Resp: 111265

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	12.9	10.2	15.4



Instrument :
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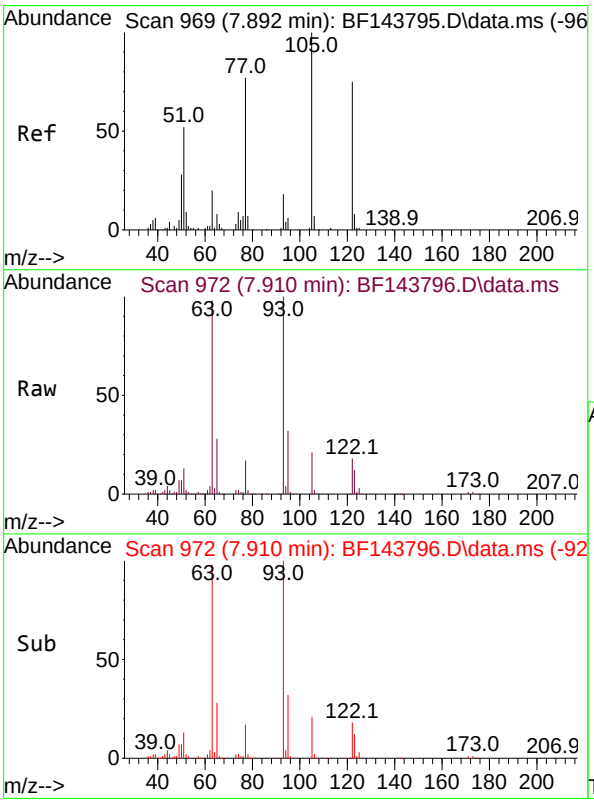
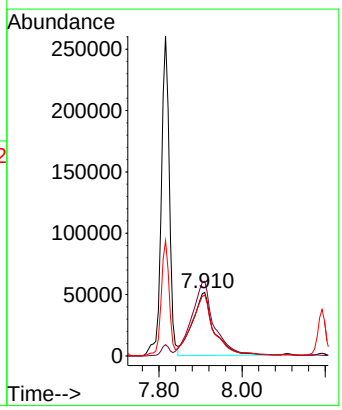
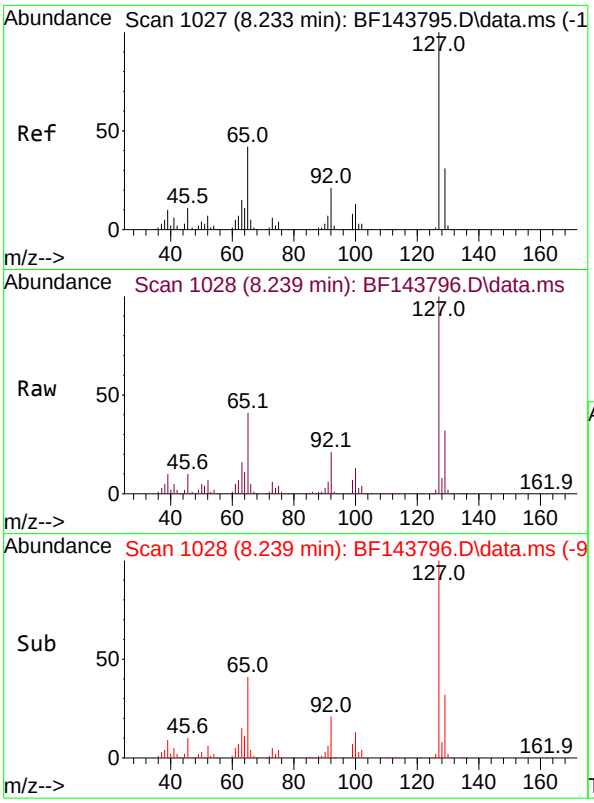


#32
Benzoic acid
Concen: 53.967 ng
RT: 7.910 min Scan# 972
Delta R.T. -0.012 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:122 Resp: 185973

Ion	Ratio	Lower	Upper
122	100		
105	117.7	103.7	143.7
77	95.5	78.8	118.8

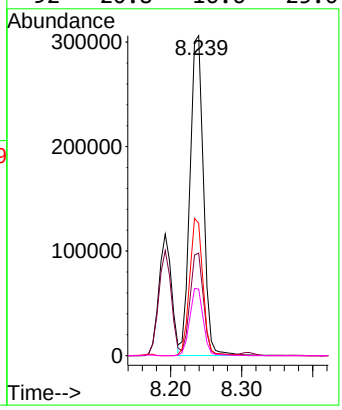




#33
4-Chloroaniline
Concen: 48.005 ng
RT: 8.239 min Scan# 10
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:127 Resp: 40536

Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.4	38.2
65	41.4	33.4	50.2
92	20.8	16.6	25.0



Instrument :
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ClientSampleId :
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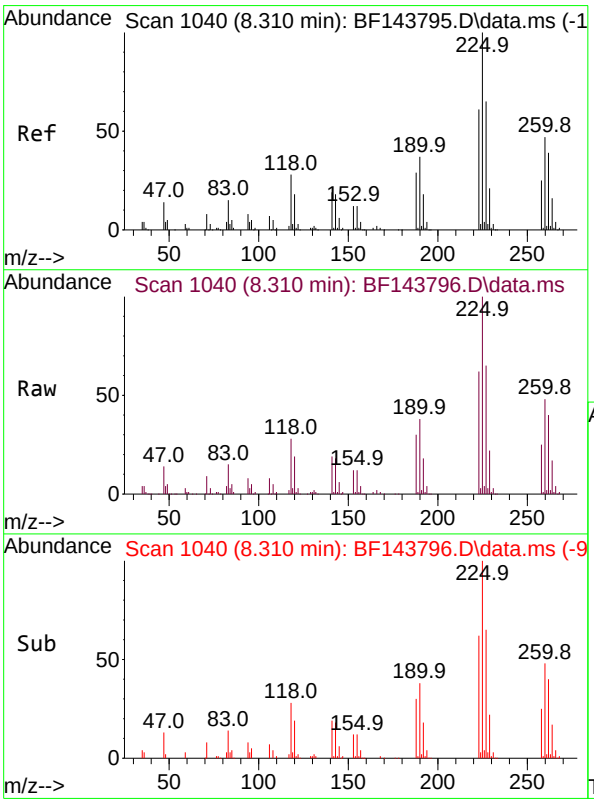
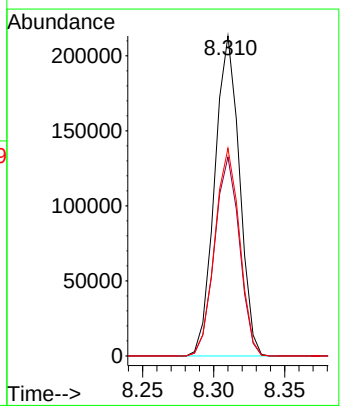
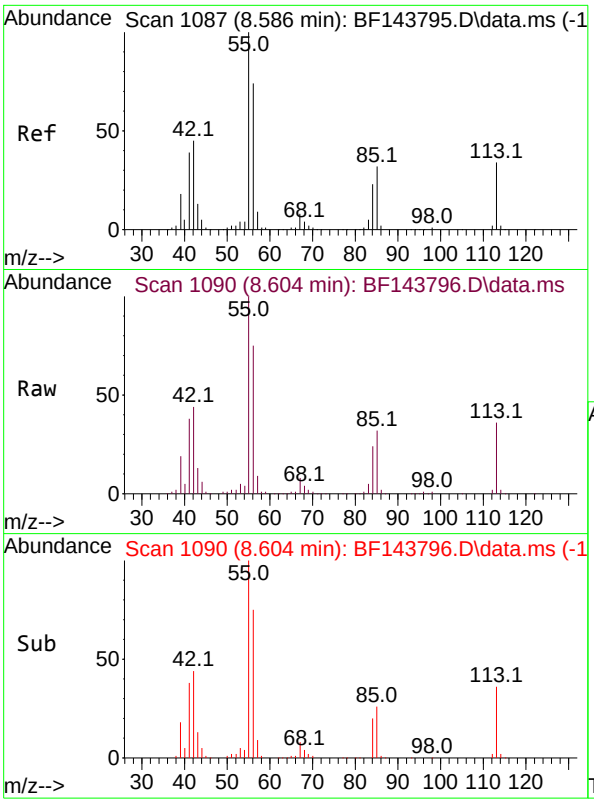


#34
Hexachlorobutadiene
Concen: 47.570 ng
RT: 8.310 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:225 Resp: 258638

Ion	Ratio	Lower	Upper
225	100		
223	62.1	48.6	72.8
227	64.9	51.9	77.9

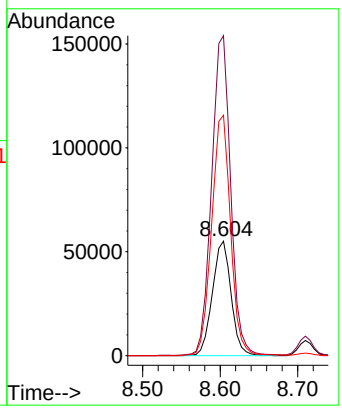




#35
Caprolactam
Concen: 51.444 ng
RT: 8.604 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:113 Resp: 9241

Ion	Ratio	Lower	Upper
113	100		
55	279.5	271.7	311.7
56	210.0	194.5	234.5



Instrument :
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SSTDICC050

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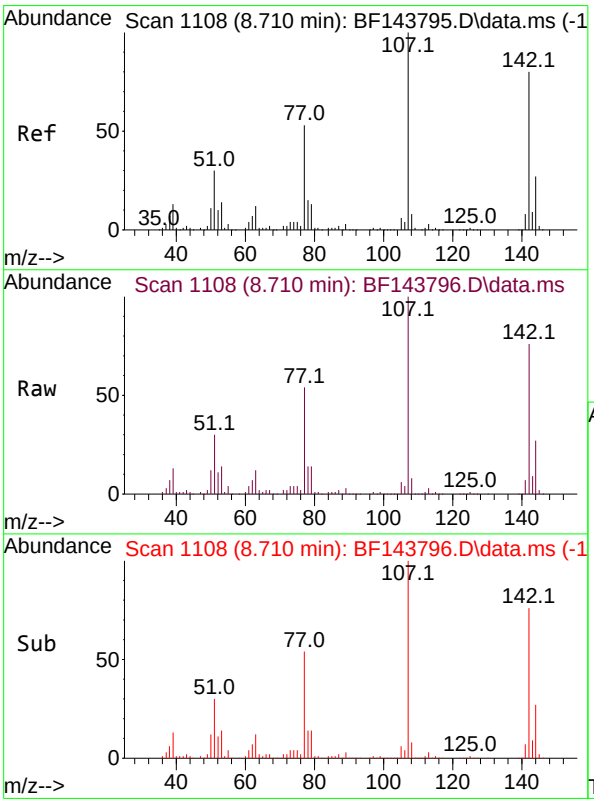
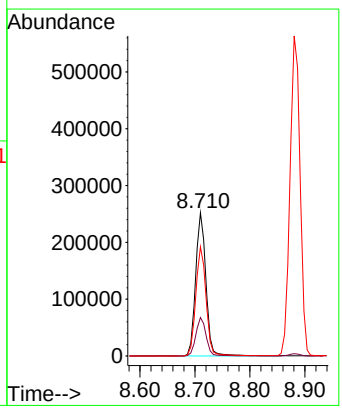
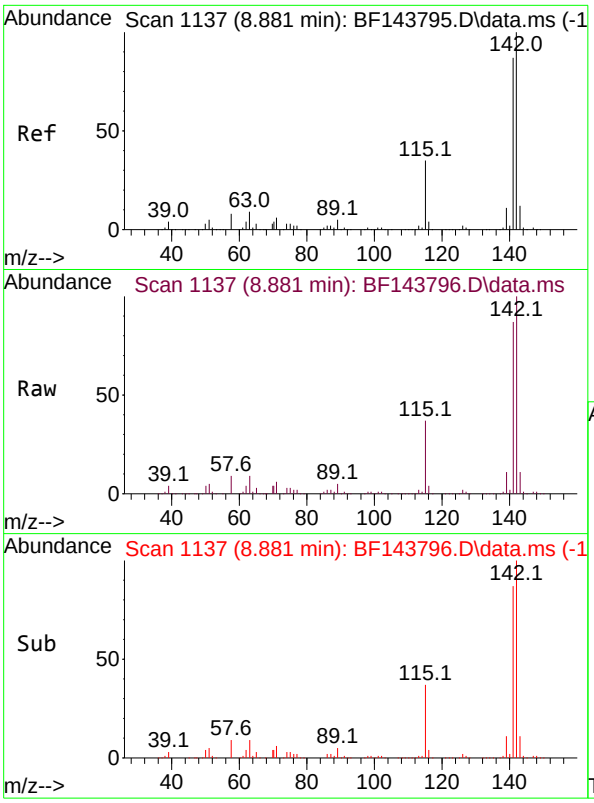


#36
4-Chloro-3-methylphenol
Concen: 49.707 ng
RT: 8.710 min Scan# 1108
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:107 Resp: 327629

Ion	Ratio	Lower	Upper
107	100		
144	26.8	21.8	32.8
142	76.2	63.6	95.4

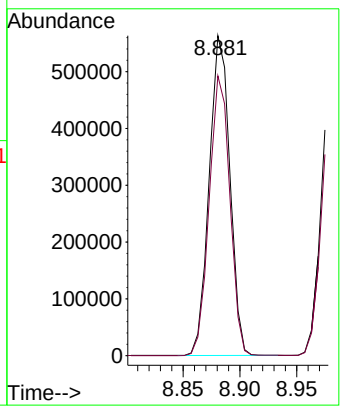




#37
2-Methylnaphthalene
Concen: 46.524 ng
RT: 8.881 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:142 Resp: 71284

Ion	Ratio	Lower	Upper
142	100		
141	87.4	69.4	104.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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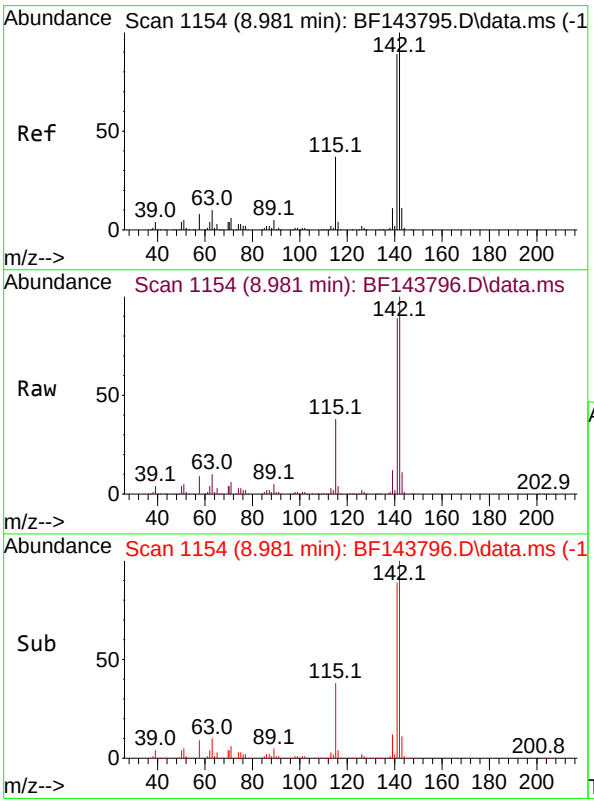
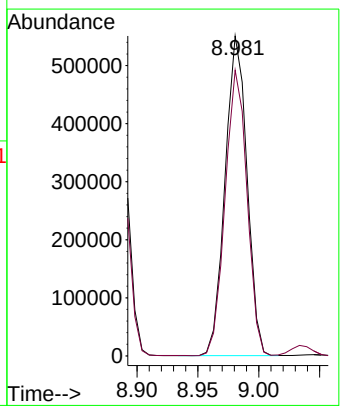
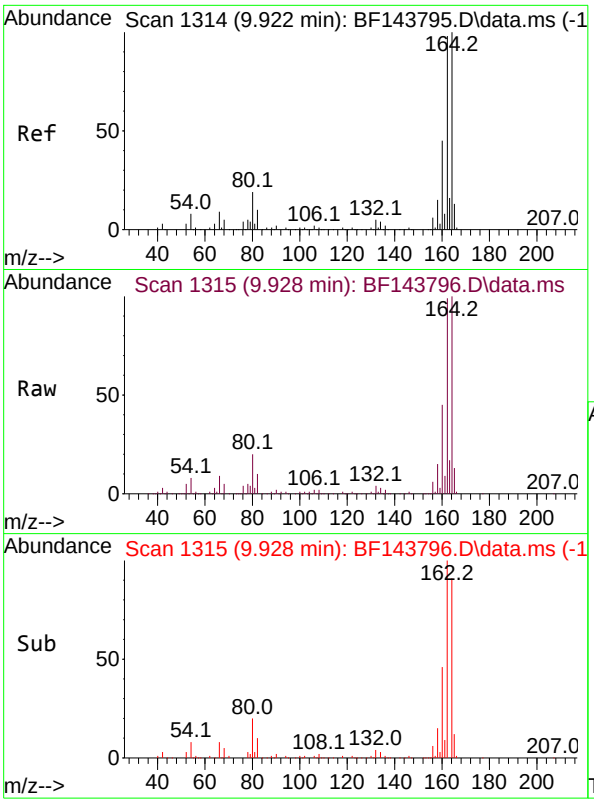


#38
1-Methylnaphthalene
Concen: 47.022 ng
RT: 8.981 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:142 Resp: 689609

Ion	Ratio	Lower	Upper
142	100		
141	89.3	71.1	106.7

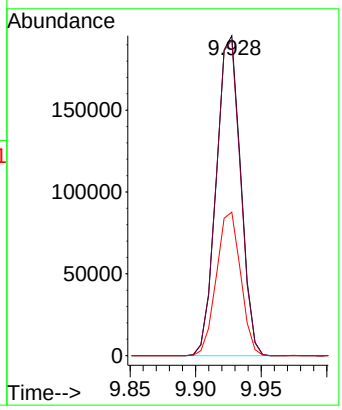




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:164 Resp: 25192

Ion	Ratio	Lower	Upper
164	100		
162	98.6	78.8	118.2
160	44.8	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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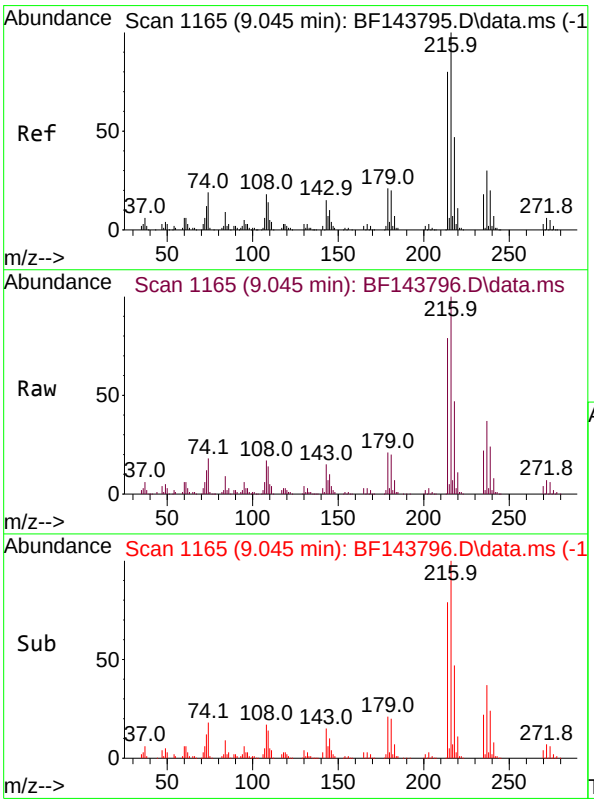
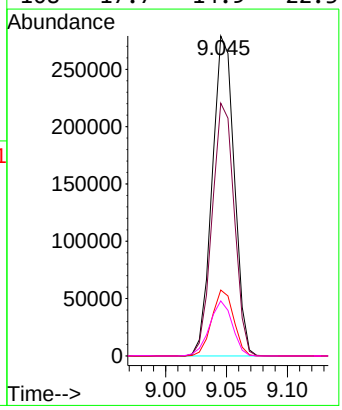
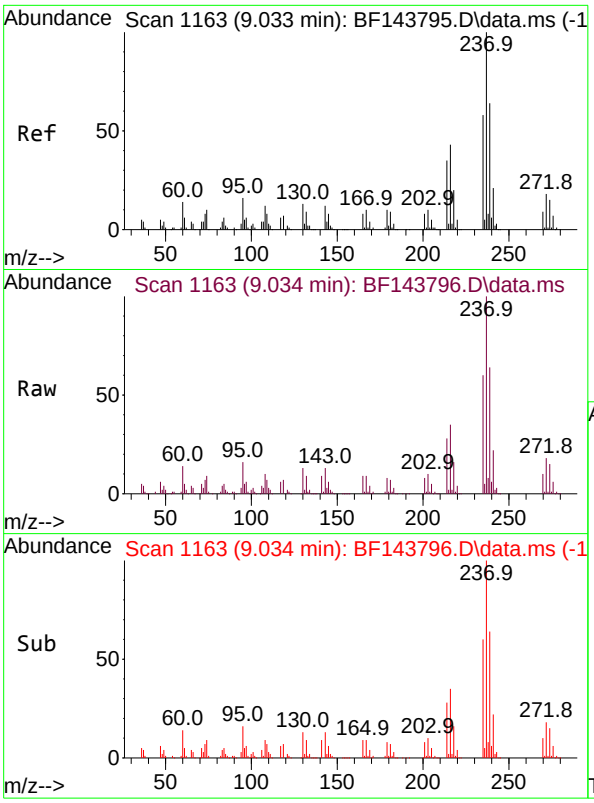


#40
1,2,4,5-Tetrachlorobenzene
Concen: 46.300 ng
RT: 9.045 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:216 Resp: 351998

Ion	Ratio	Lower	Upper
216	100		
214	78.9	63.7	95.5
179	20.3	16.5	24.7
108	17.7	14.9	22.3

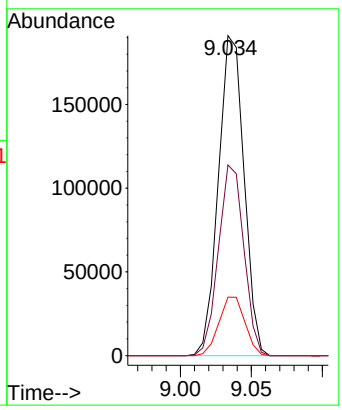




#41
Hexachlorocyclopentadiene
Concen: 49.894 ng
RT: 9.034 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:237 Resp: 240402

Ion	Ratio	Lower	Upper
237	100		
235	59.6	38.1	78.1
272	18.3	0.0	37.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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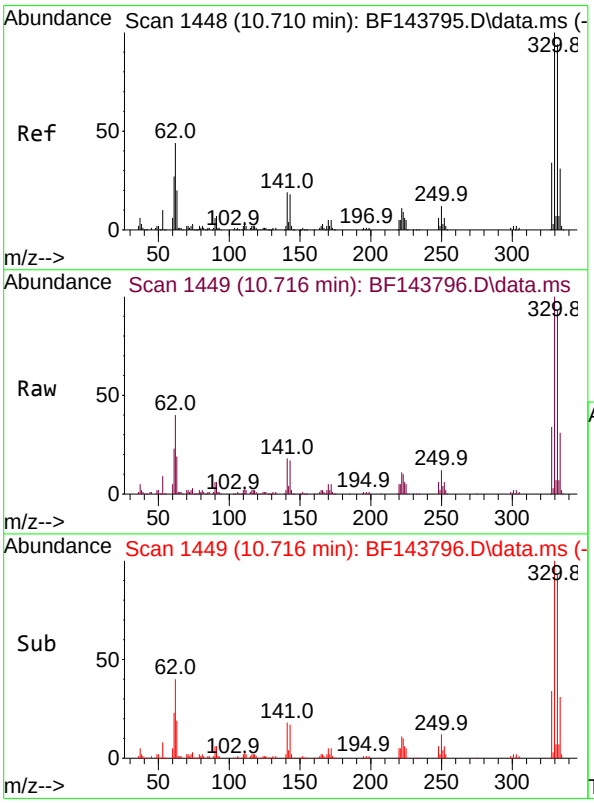
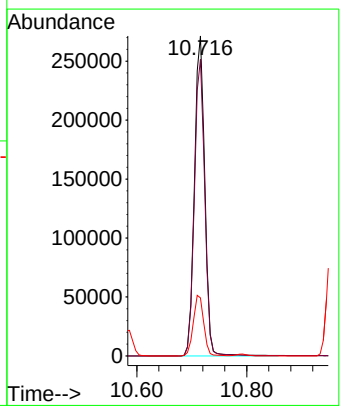
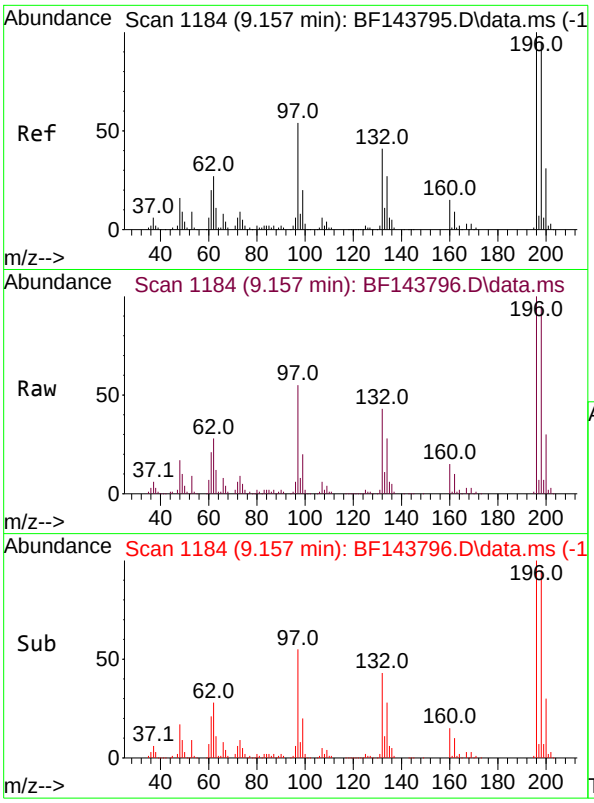


#42
2,4,6-Tribromophenol
Concen: 98.591 ng
RT: 10.716 min Scan# 1449
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:330 Resp: 354459

Ion	Ratio	Lower	Upper
330	100		
332	92.9	74.7	112.1
141	19.2	14.3	21.5

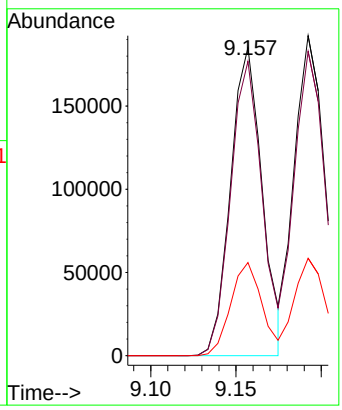




#43
2,4,6-Trichlorophenol
Concen: 50.100 ng
RT: 9.157 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:196 Resp: 23849

Ion	Ratio	Lower	Upper
196	100		
198	95.5	76.2	114.2
200	30.2	24.7	37.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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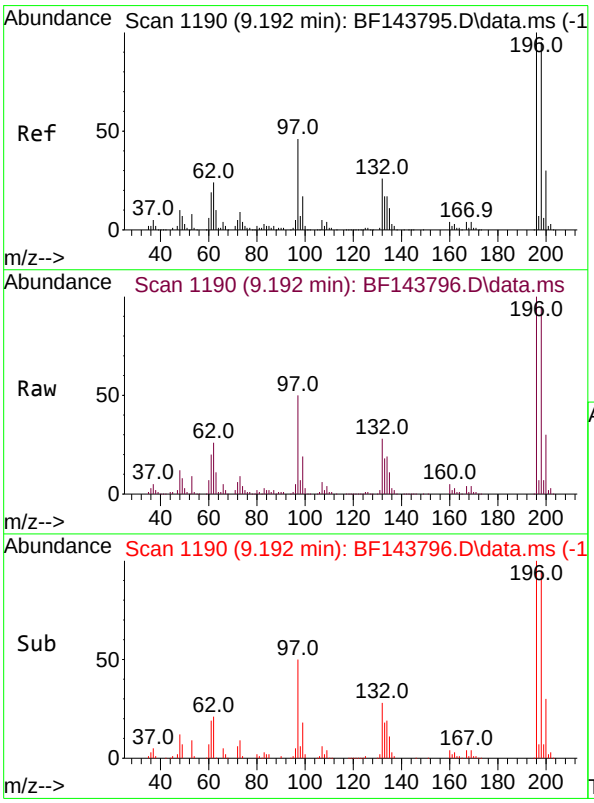
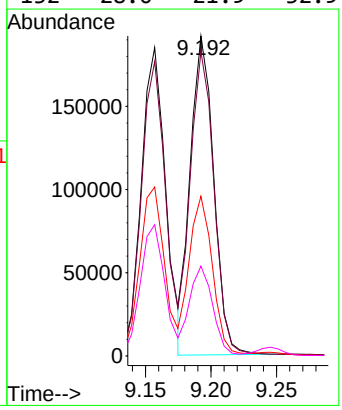
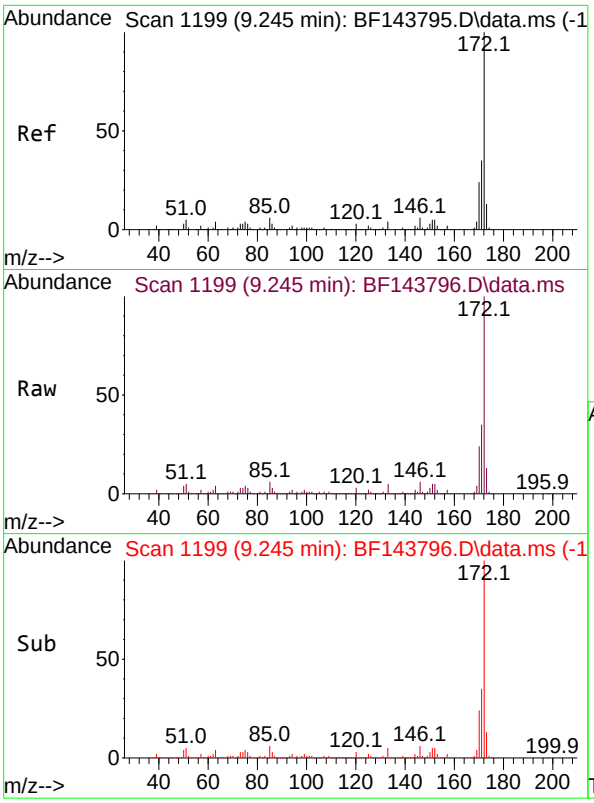


#44
2,4,5-Trichlorophenol
Concen: 48.050 ng
RT: 9.192 min Scan# 1190
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:196 Resp: 239256

Ion	Ratio	Lower	Upper
196	100		
198	95.1	75.9	113.9
97	49.9	38.3	57.5
132	28.0	21.9	32.9

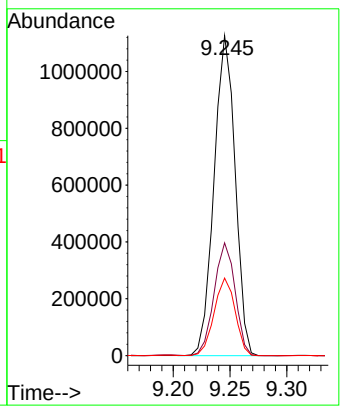




#45
2-Fluorobiphenyl
Concen: 85.274 ng
RT: 9.245 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:172 Resp: 145370

Ion	Ratio	Lower	Upper
172	100		
171	35.2	27.9	41.9
170	24.2	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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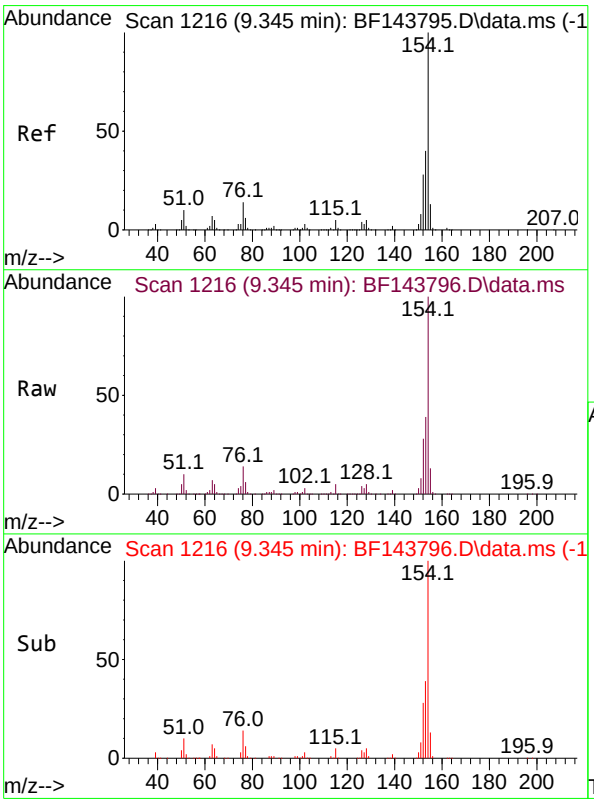
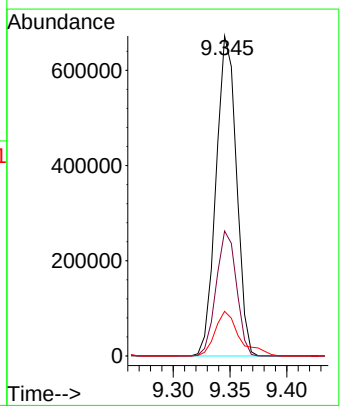
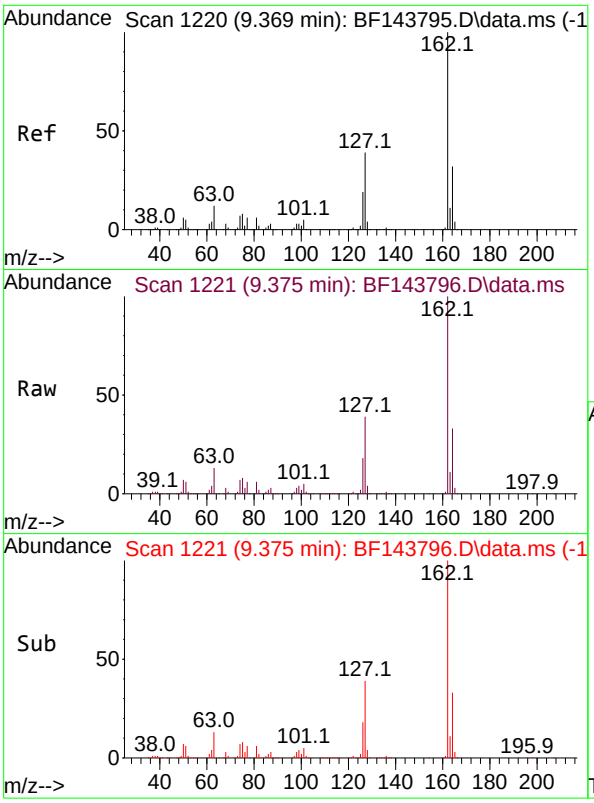


#46
1,1'-Biphenyl
Concen: 45.967 ng
RT: 9.345 min Scan# 1216
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:154 Resp: 838250

Ion	Ratio	Lower	Upper
154	100		
153	39.0	19.7	59.7
76	13.9	0.0	33.8





#47
2-Chloronaphthalene
Concen: 46.229 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:162 Resp: 67859

Ion	Ratio	Lower	Upper
162	100		
127	38.8	31.5	47.3
164	32.6	25.9	38.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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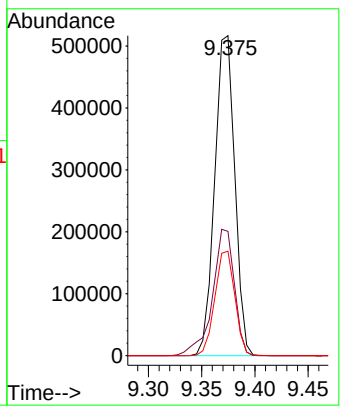
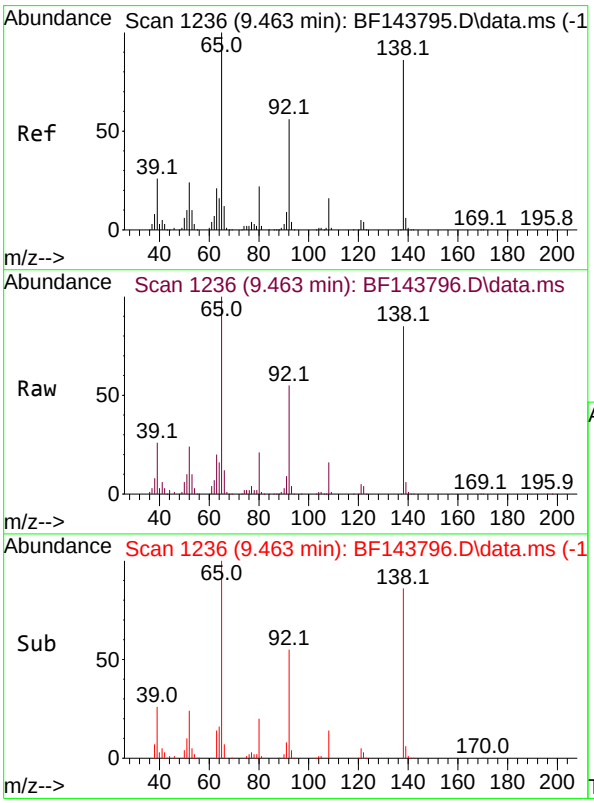
Supervised By :Jagrut Upadhyay 09/24/2025

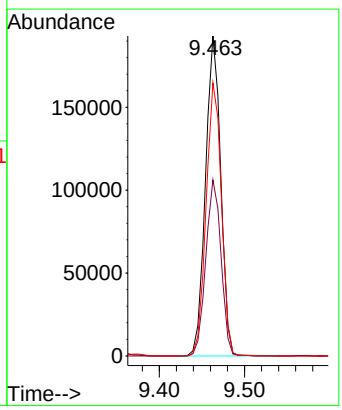


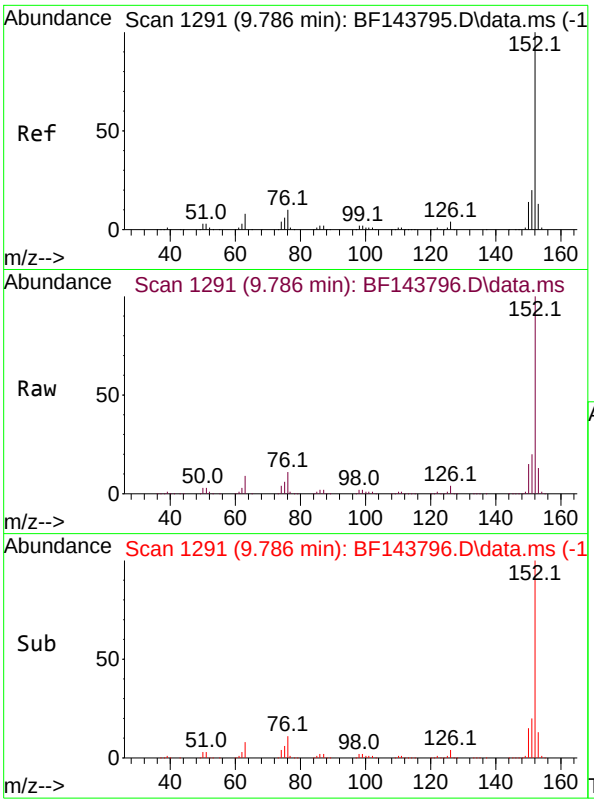


#48
2-Nitroaniline
Concen: 53.895 ng
RT: 9.463 min Scan# 1236
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 65 Resp: 239106

Ion	Ratio	Lower	Upper
65	100		
92	55.0	44.9	67.3
138	85.3	69.0	103.4

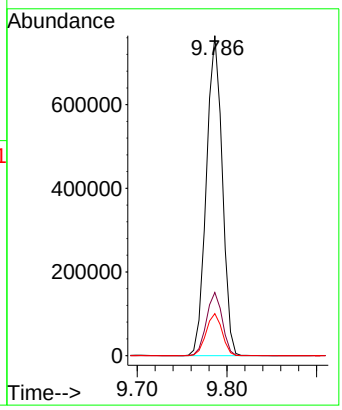




#49
Acenaphthylene
Concen: 46.711 ng
RT: 9.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:152 Resp: 94392

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.7	23.5
153	13.1	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
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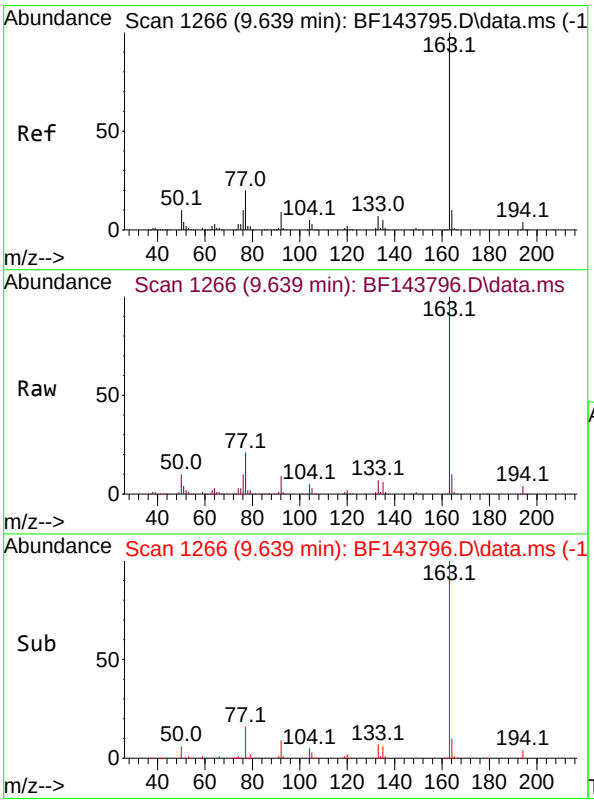
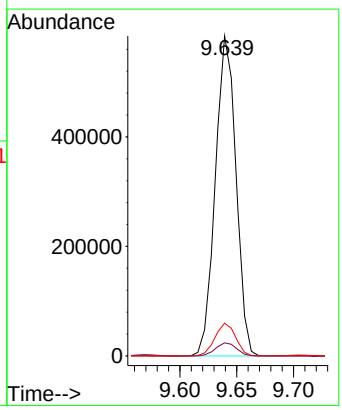
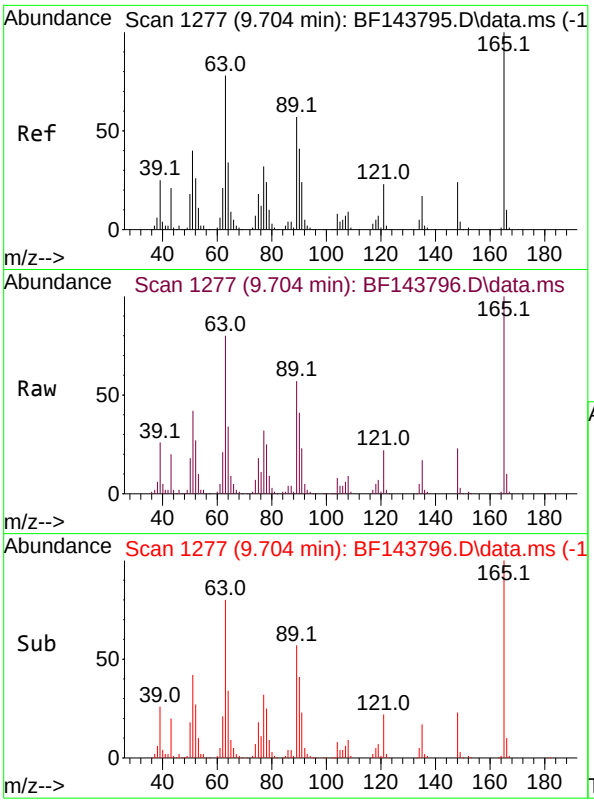


#50
Dimethylphthalate
Concen: 48.124 ng
RT: 9.639 min Scan# 1266
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:163 Resp: 738918

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.0	4.6
164	10.2	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 56.010 ng
RT: 9.704 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:165 Resp: 14130

Ion	Ratio	Lower	Upper
165	100		
63	80.2	62.6	94.0
89	57.2	45.2	67.8

Instrument :
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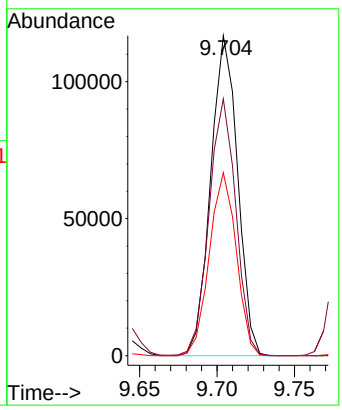
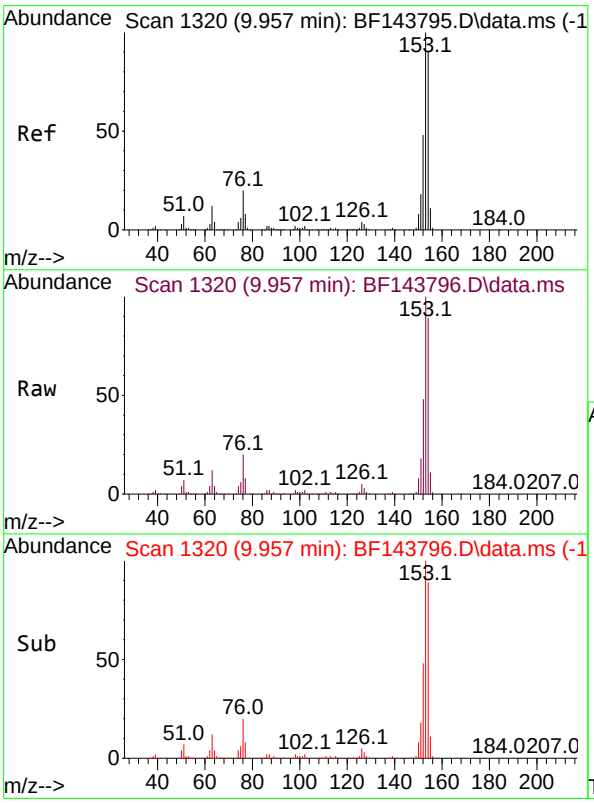
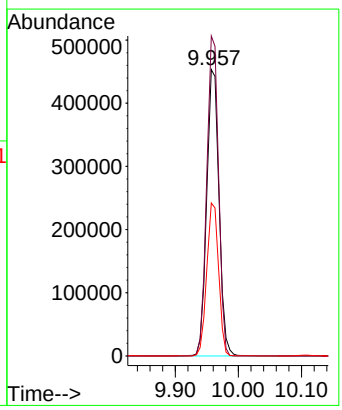


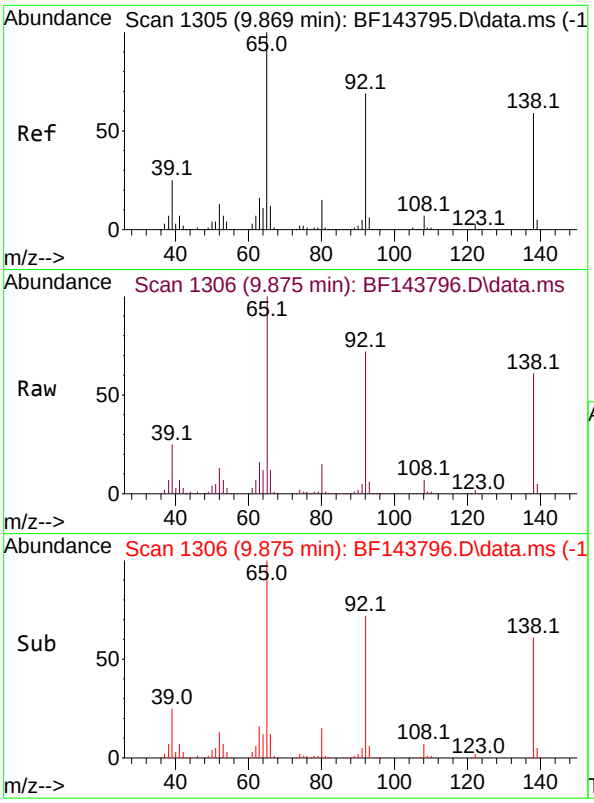


#52
Acenaphthene
Concen: 46.113 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:154 Resp: 613218

Ion	Ratio	Lower	Upper
154	100		
153	111.8	88.7	133.1
152	53.4	42.7	64.1





#53
3-Nitroaniline
Concen: 53.384 ng
RT: 9.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:138 Resp: 16324

Ion	Ratio	Lower	Upper
138	100		
108	11.8	9.9	14.9
92	117.3	93.5	140.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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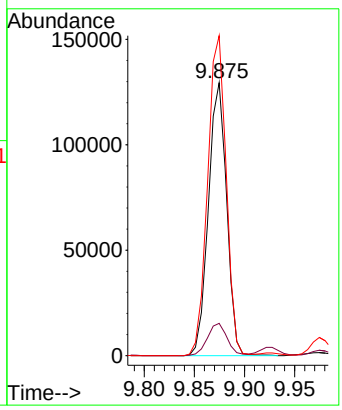
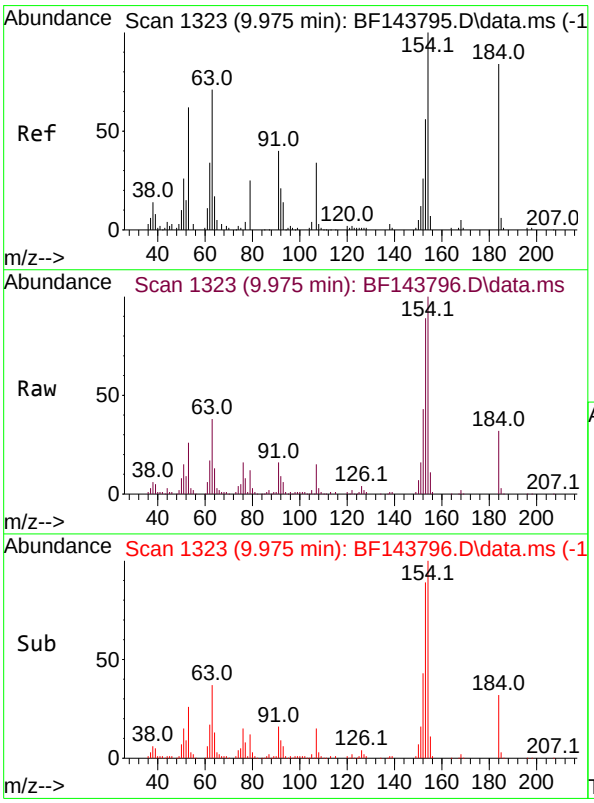
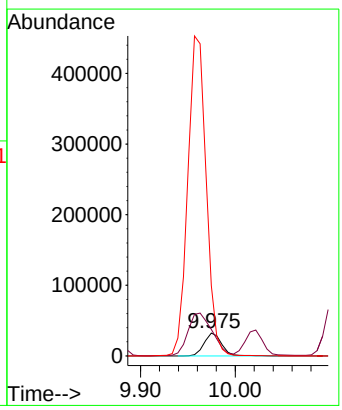


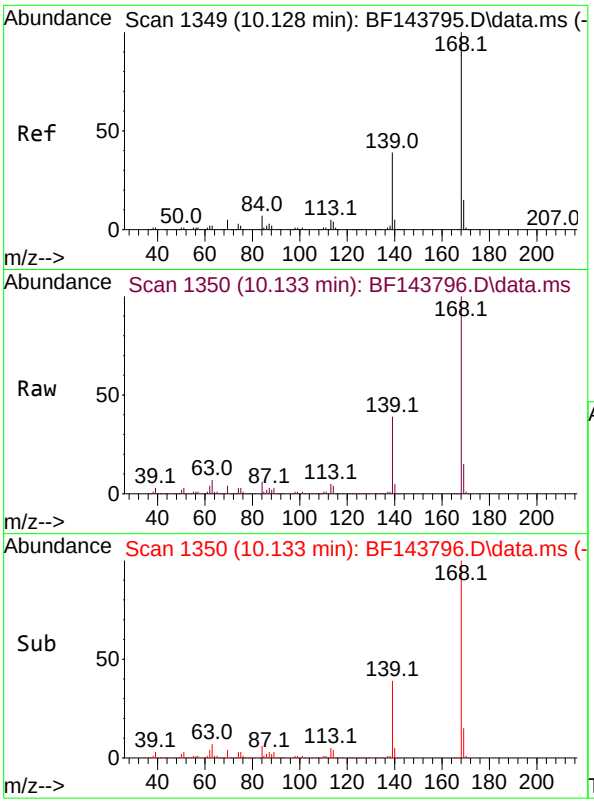


#54
2,4-Dinitrophenol
Concen: 49.728 ng
RT: 9.975 min Scan# 1323
Delta R.T. -0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:184 Resp: 41616

Ion	Ratio	Lower	Upper
184	100		
63	115.9	84.6	127.0
154	307.9	199.3	298.9#

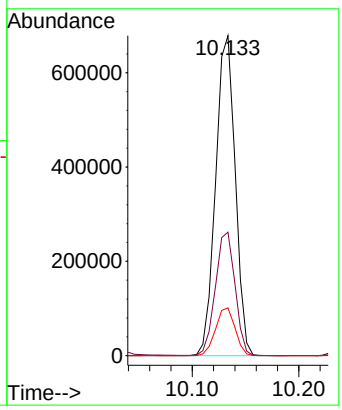




#55
Dibenzofuran
Concen: 46.115 ng
RT: 10.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:168 Resp: 86716

Ion	Ratio	Lower	Upper
168	100		
139	38.6	31.0	46.6
169	14.9	11.9	17.9



Instrument :
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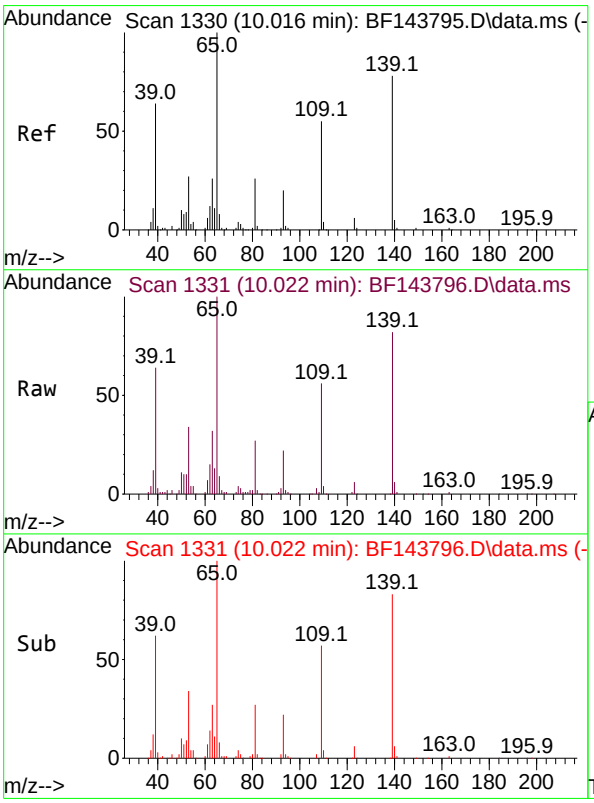
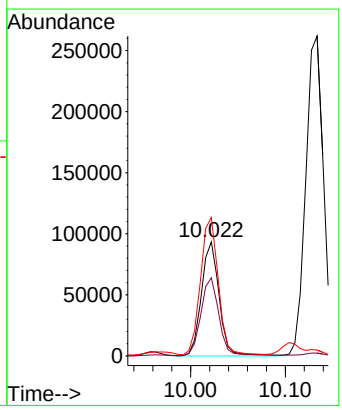
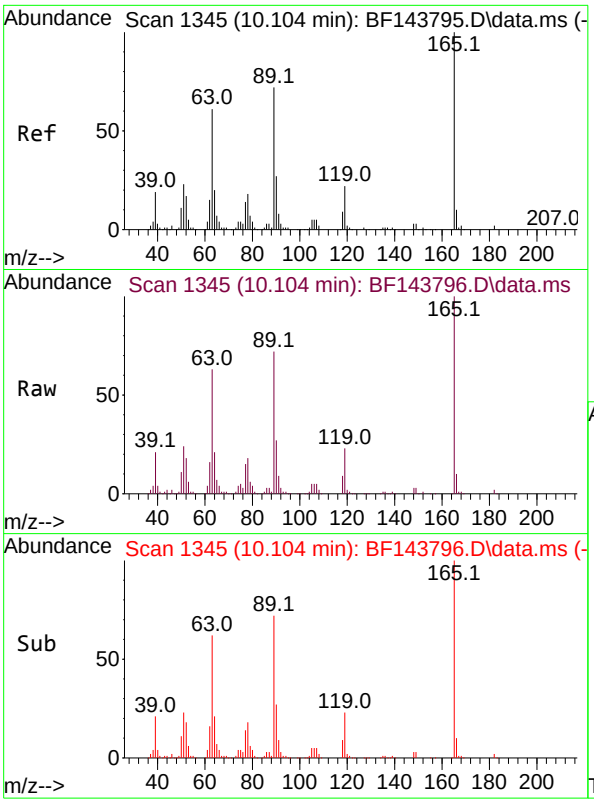


#56
4-Nitrophenol
Concen: 49.212 ng
RT: 10.022 min Scan# 1331
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:139 Resp: 121266

Ion	Ratio	Lower	Upper
139	100		
109	68.6	50.2	90.2
65	121.4	109.2	149.2

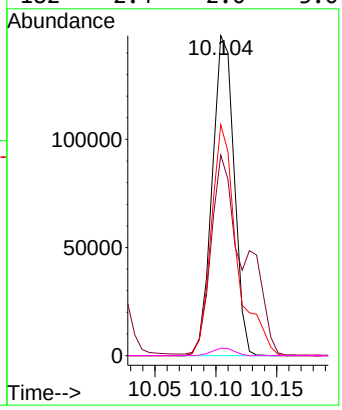




#57
2,4-Dinitrotoluene
Concen: 49.496 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:165 Resp: 18570

Ion	Ratio	Lower	Upper
165	100		
63	62.7	48.9	73.3
89	72.1	57.5	86.3
182	2.4	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
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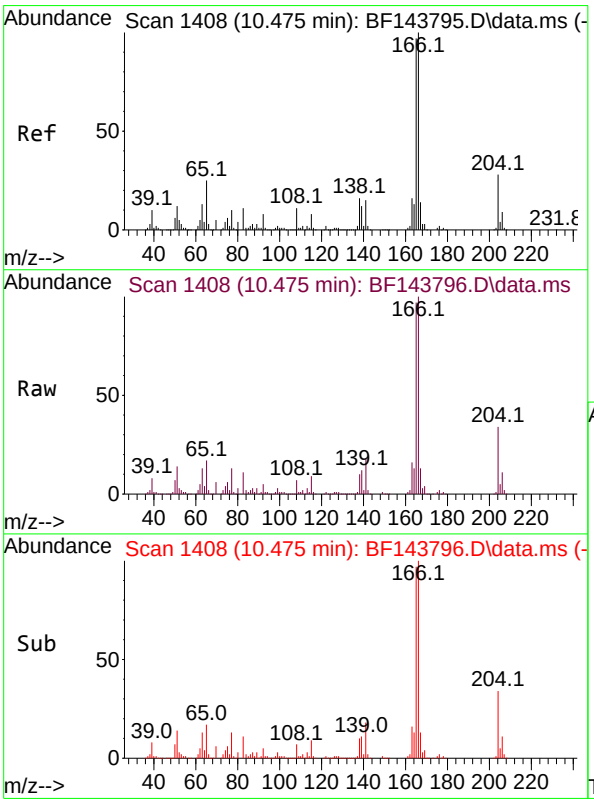
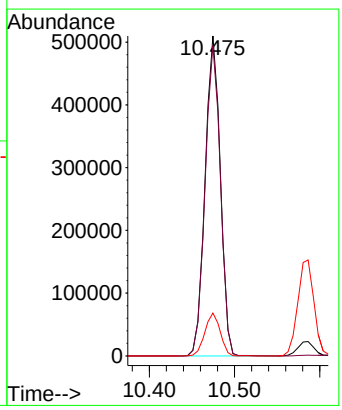
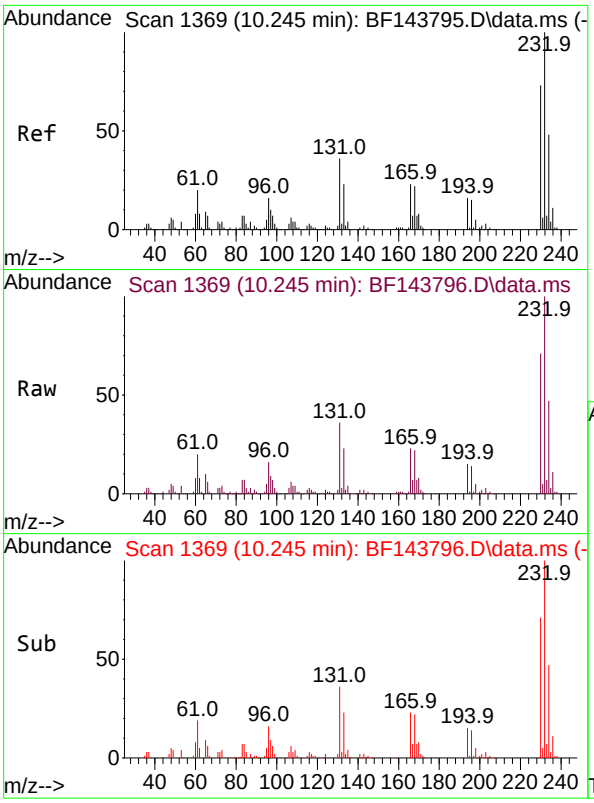


#58
Fluorene
Concen: 45.259 ng
RT: 10.475 min Scan# 1408
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:166 Resp: 632710

Ion	Ratio	Lower	Upper
166	100		
165	96.9	78.0	117.0
167	13.4	10.9	16.3

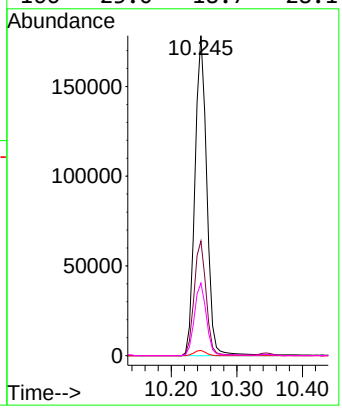




#59
2,3,4,6-Tetrachlorophenol
Concen: 52.440 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:232 Resp: 22369

Ion	Ratio	Lower	Upper
232	100		
131	36.2	29.4	44.2
130	1.6	1.3	1.9
166	23.0	18.7	28.1



Instrument :
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ClientSampleId :
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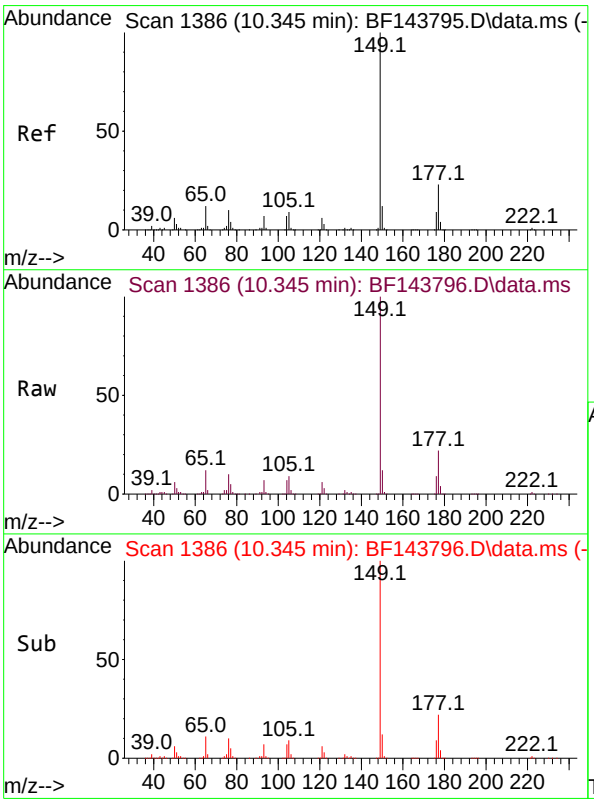
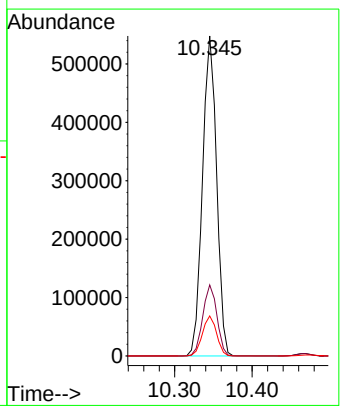
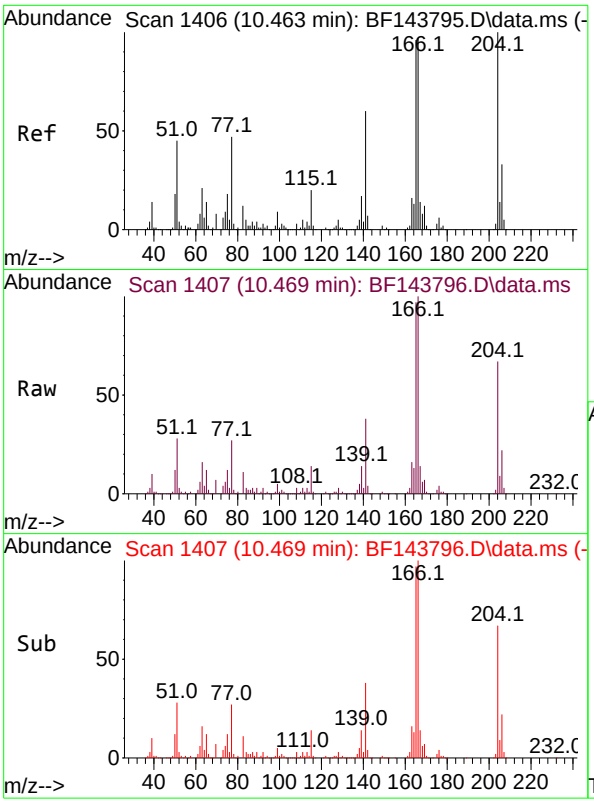


#60
Diethylphthalate
Concen: 48.178 ng
RT: 10.345 min Scan# 1386
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:149 Resp: 692482

Ion	Ratio	Lower	Upper
149	100		
177	22.2	18.1	27.1
150	12.5	9.7	14.5





#61
4-Chlorophenyl-phenylether
Concen: 46.640 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:204 Resp: 33222

Ion	Ratio	Lower	Upper
204	100		
206	33.3	26.7	40.1
141	57.5	48.2	72.2

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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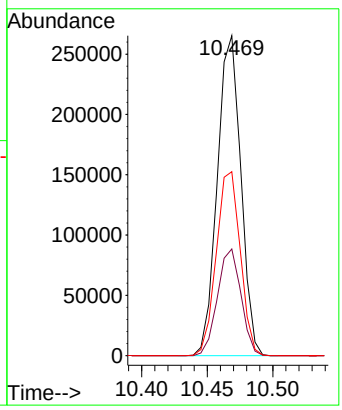
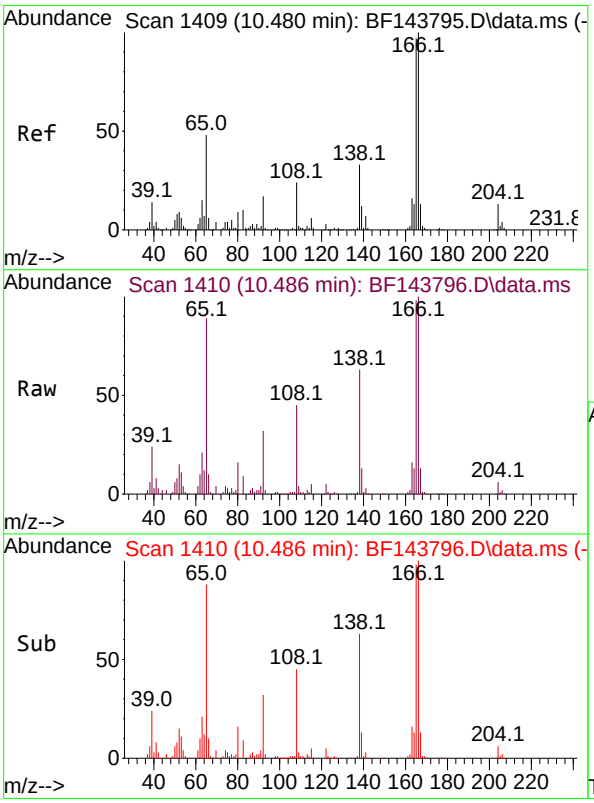
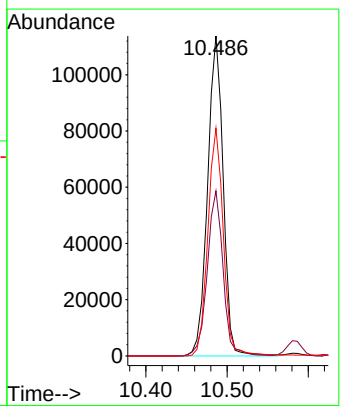


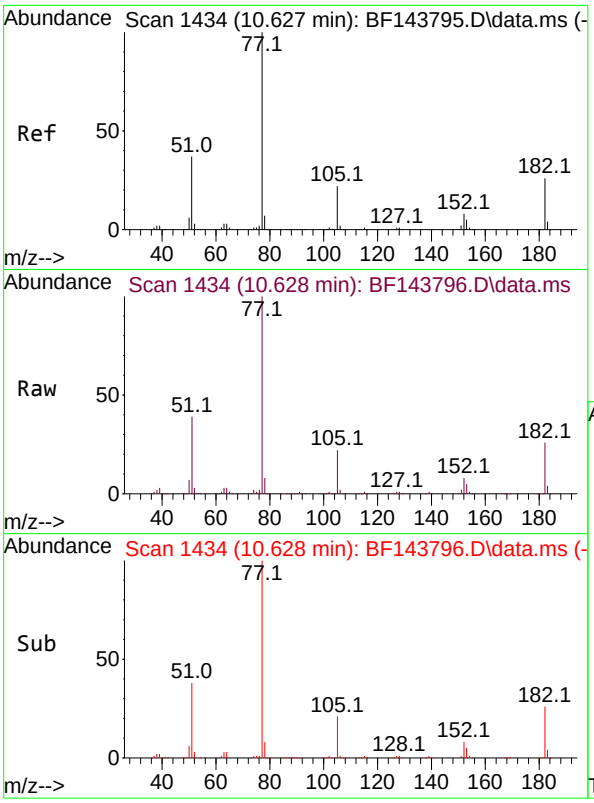


#62
4-Nitroaniline
Concen: 52.923 ng
RT: 10.486 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:138 Resp: 152165

Ion	Ratio	Lower	Upper
138	100		
92	51.5	31.5	71.5
108	71.1	51.9	91.9

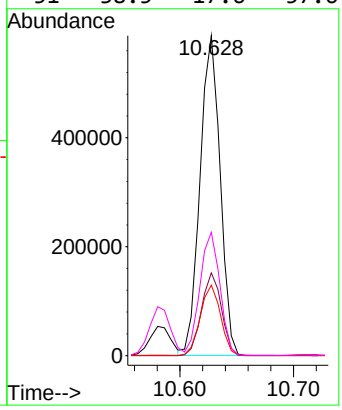




#63
Azobenzene
Concen: 47.725 ng
RT: 10.628 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion: 77 Resp: 72293

Ion	Ratio	Lower	Upper
77	100		
182	25.9	5.9	45.9
105	22.1	2.3	42.3
51	38.5	17.6	57.6



Instrument :
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ClientSampleId :
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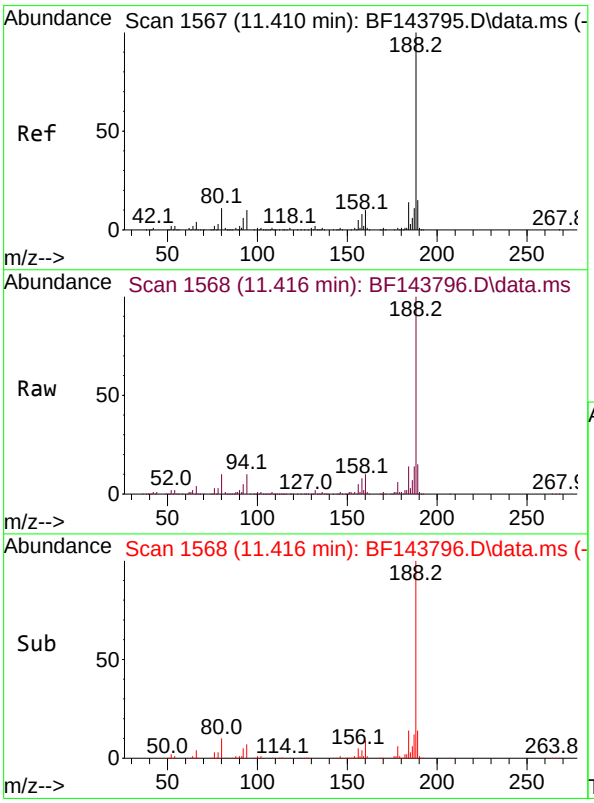
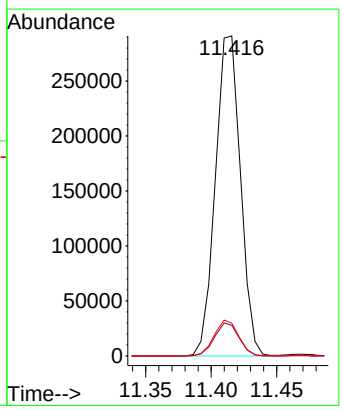
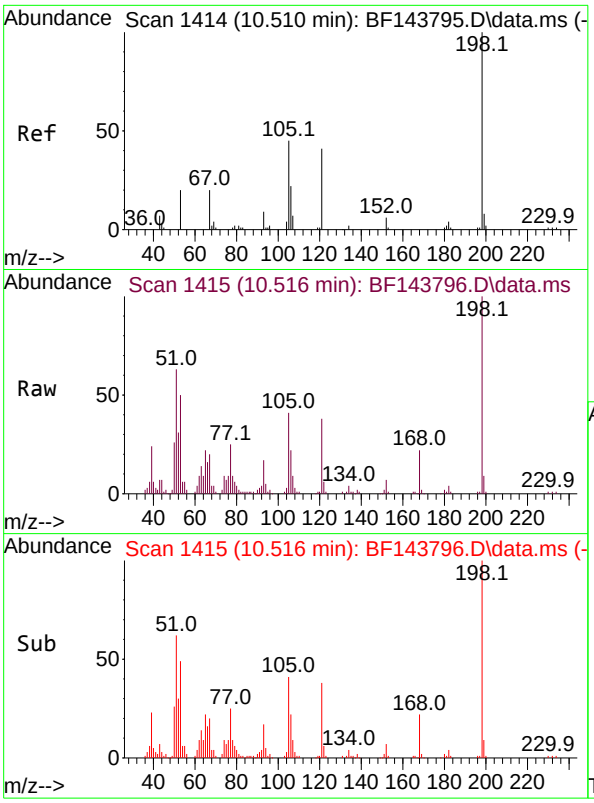


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:188 Resp: 388493

Ion	Ratio	Lower	Upper
188	100		
94	9.6	8.2	12.2
80	10.2	8.6	12.8





#65
4,6-Dinitro-2-methylphenol
Concen: 50.124 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:198 Resp: 7219

Ion	Ratio	Lower	Upper
198	100		
51	62.7	52.0	92.0
105	41.4	27.5	67.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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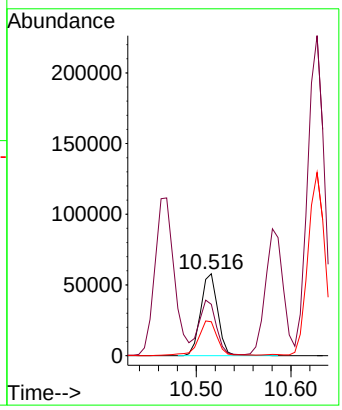
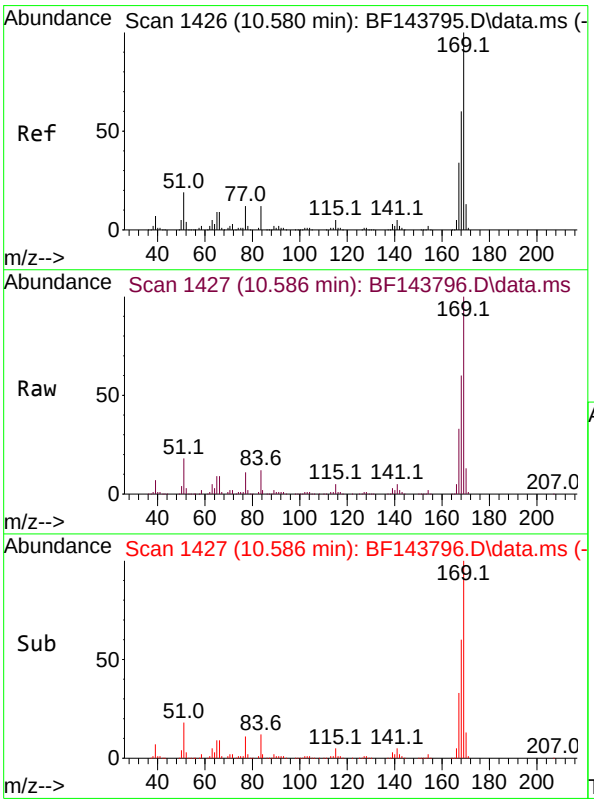
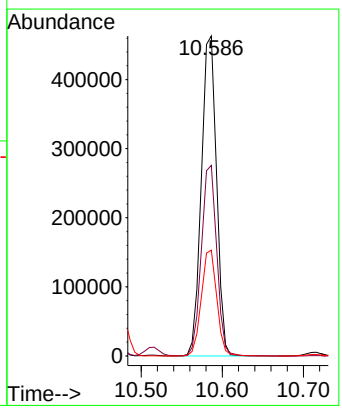


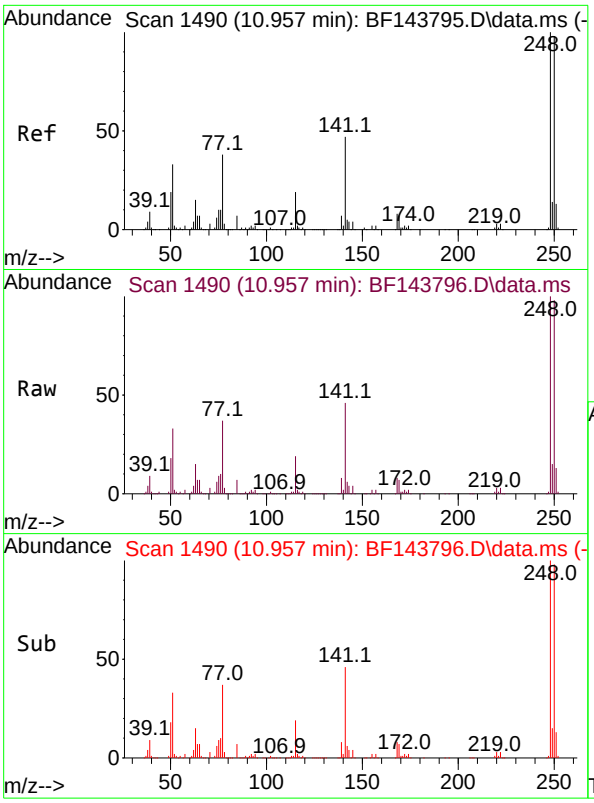


#66
n-Nitrosodiphenylamine
Concen: 47.203 ng
RT: 10.586 min Scan# 1427
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:169 Resp: 603084

Ion	Ratio	Lower	Upper
169	100		
168	59.5	47.9	71.9
167	33.0	27.0	40.6

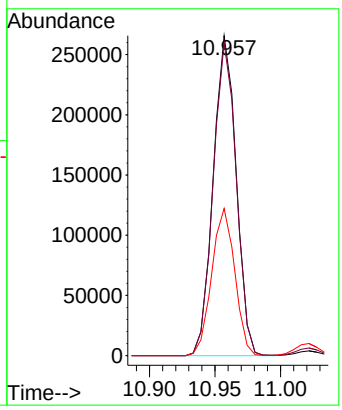




#67
4-Bromophenyl-phenylether
Concen: 48.975 ng
RT: 10.957 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:248 Resp: 32424

Ion	Ratio	Lower	Upper
248	100		
250	97.7	78.7	118.1
141	46.0	37.9	56.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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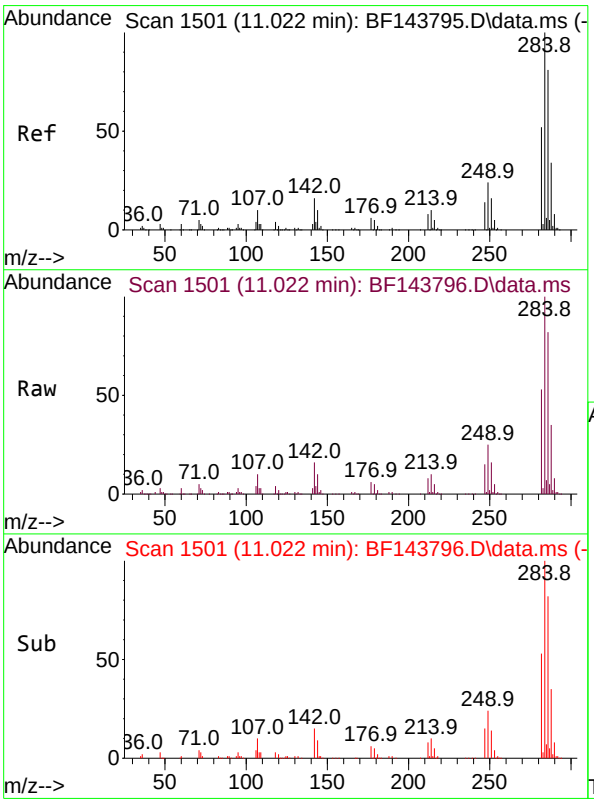
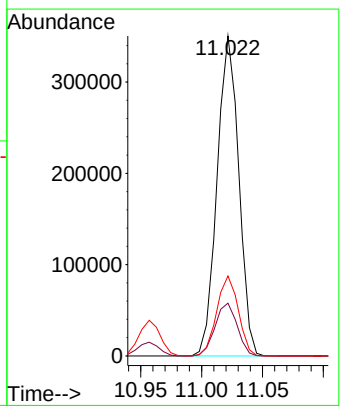
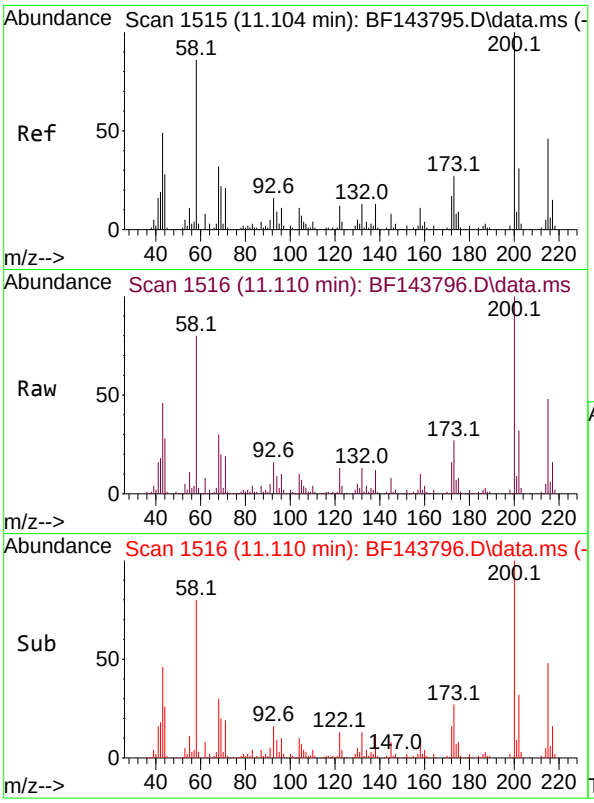


#68
Hexachlorobenzene
Concen: 47.539 ng
RT: 11.022 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:284 Resp: 433735

Ion	Ratio	Lower	Upper
284	100		
142	16.5	13.1	19.7
249	25.0	19.5	29.3

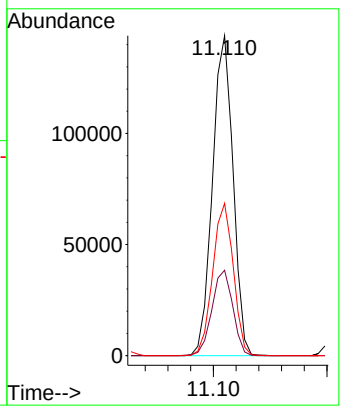




#69
Atrazine
Concen: 48.894 ng
RT: 11.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:200 Resp: 18089

Ion	Ratio	Lower	Upper
200	100		
173	26.7	7.2	47.2
215	47.6	26.0	66.0



Instrument :
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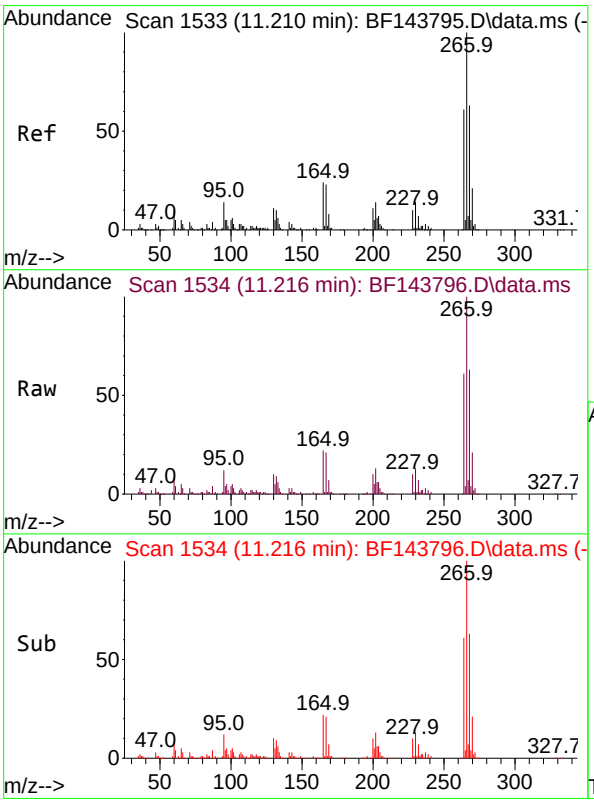
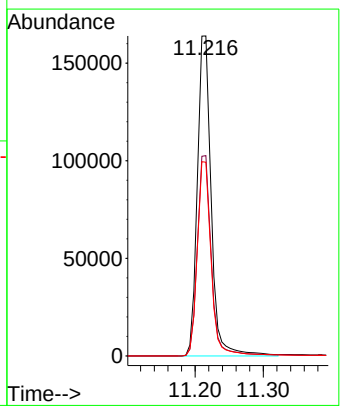
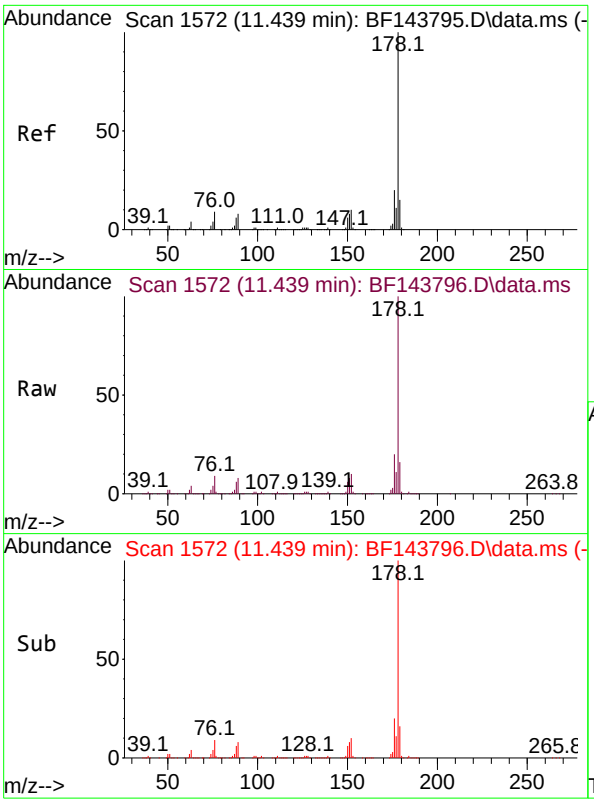


#70
Pentachlorophenol
Concen: 51.024 ng
RT: 11.216 min Scan# 1534
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:266 Resp: 231733

Ion	Ratio	Lower	Upper
266	100		
268	62.6	50.5	75.7
264	60.5	48.8	73.2

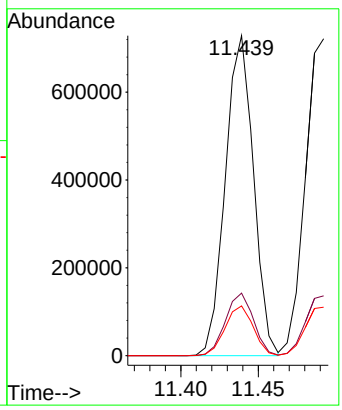




#71
Phenanthrene
Concen: 46.149 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:178 Resp: 92043

Ion	Ratio	Lower	Upper
178	100		
176	19.5	15.6	23.4
179	15.5	12.2	18.4



Instrument :
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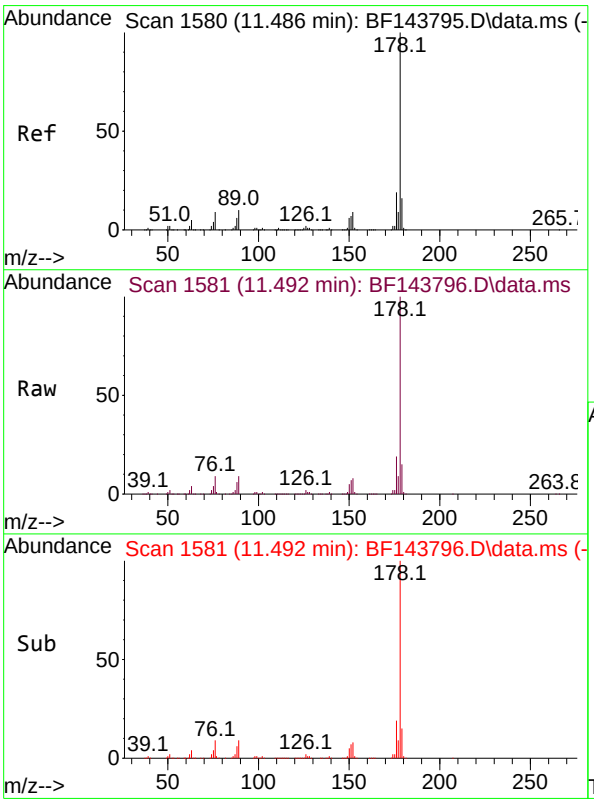
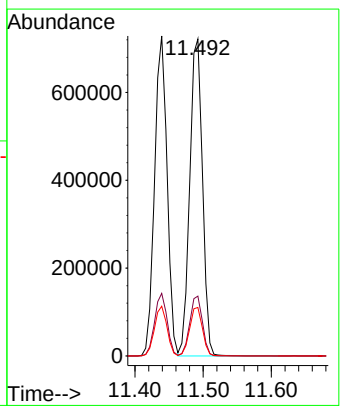
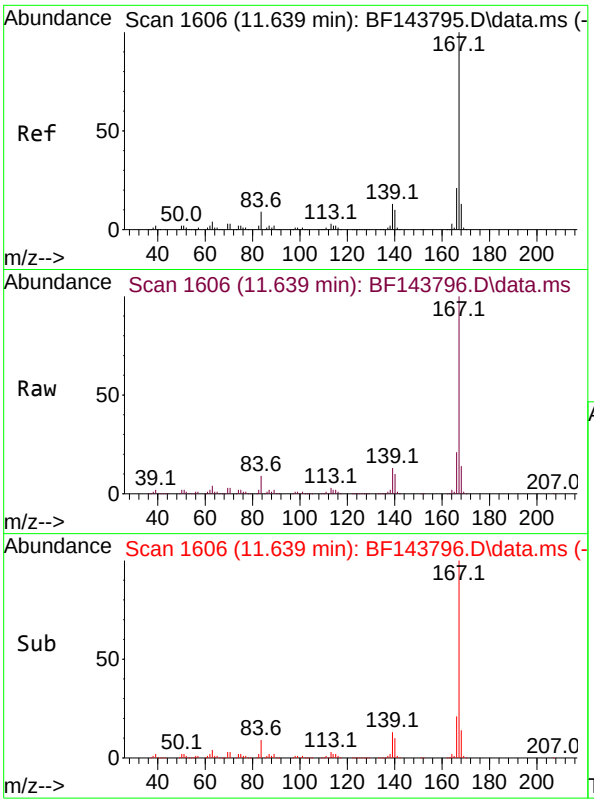


#72
Anthracene
Concen: 46.825 ng
RT: 11.492 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:178 Resp: 936801

Ion	Ratio	Lower	Upper
178	100		
176	18.8	15.3	22.9
179	15.3	12.8	19.2





#73
Carbazole
Concen: 46.564 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:167 Resp: 81449

Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.0	25.4
139	13.2	10.6	15.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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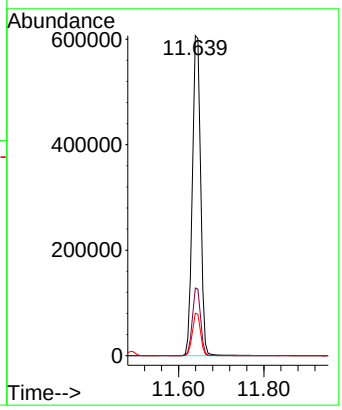
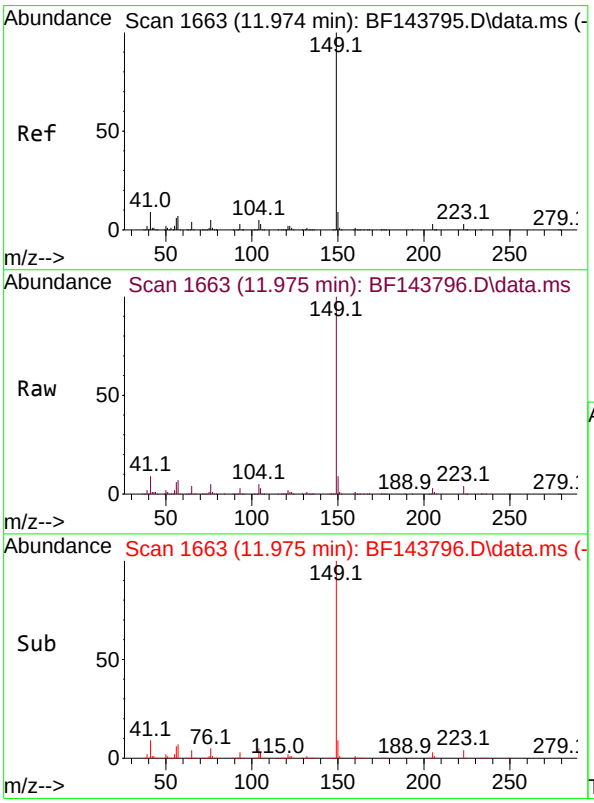
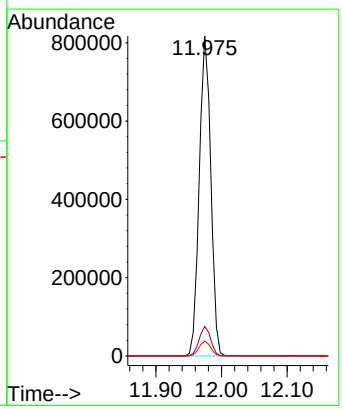


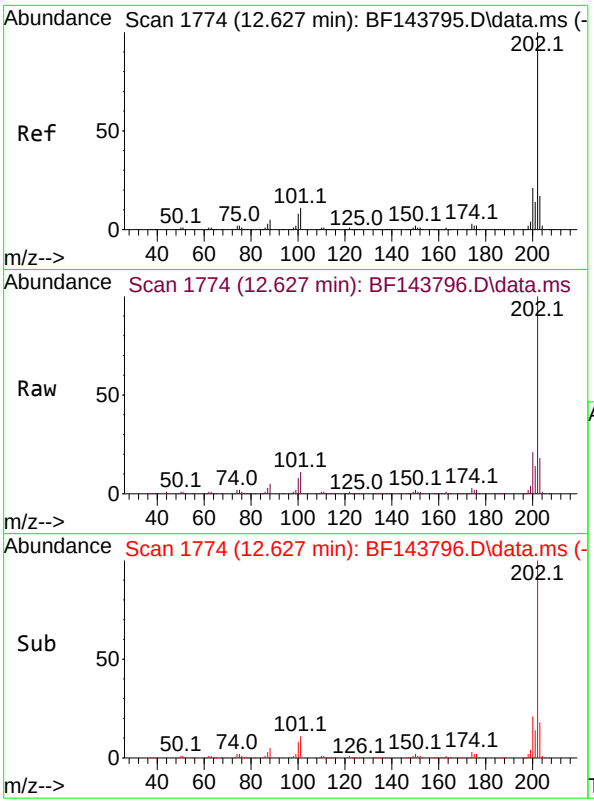


#74
Di-n-butylphthalate
Concen: 49.211 ng
RT: 11.975 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:149 Resp: 990005

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	4.6	3.6	5.4

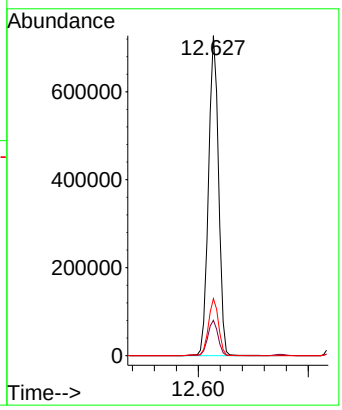




#75
Fluoranthene
Concen: 46.163 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:202 Resp: 92604

Ion	Ratio	Lower	Upper
202	100		
101	11.1	0.0	31.1
203	17.8	0.0	37.4



Instrument :
BNA_F
ClientSampleId :
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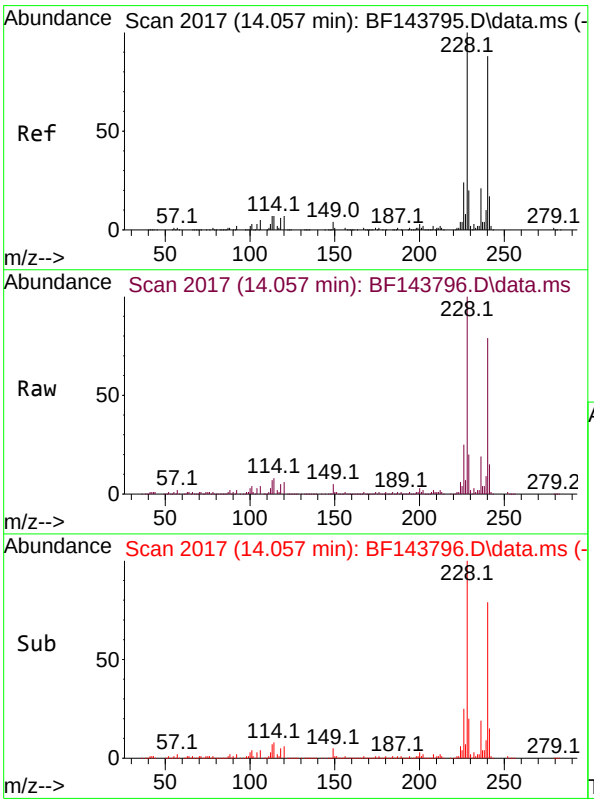
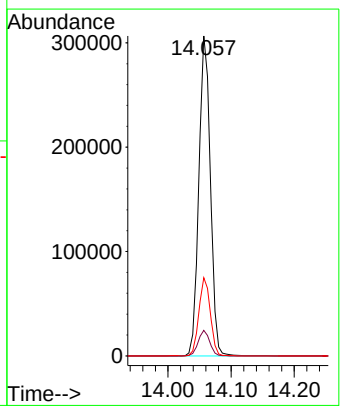
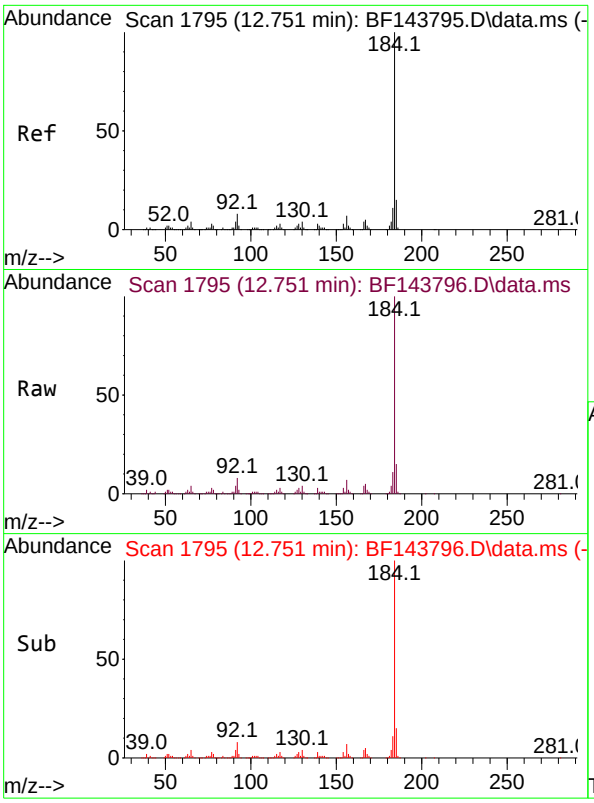


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:240 Resp: 388120

Ion	Ratio	Lower	Upper
240	100		
120	8.0	6.2	9.4
236	24.4	19.4	29.2

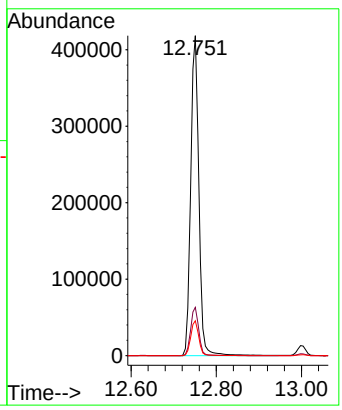




#77
Benzidine
Concen: 58.531 ng
RT: 12.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:184 Resp: 55356

Ion	Ratio	Lower	Upper
184	100		
185	15.1	11.6	17.4
183	10.9	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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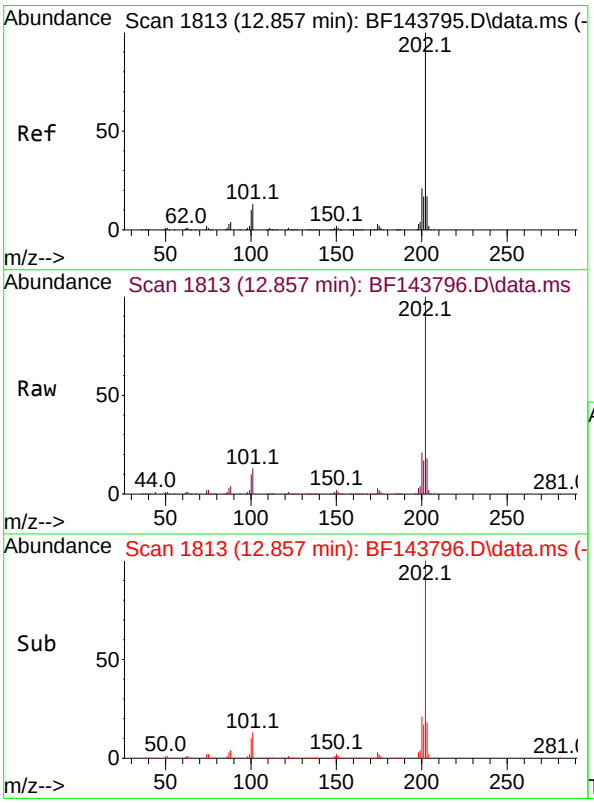
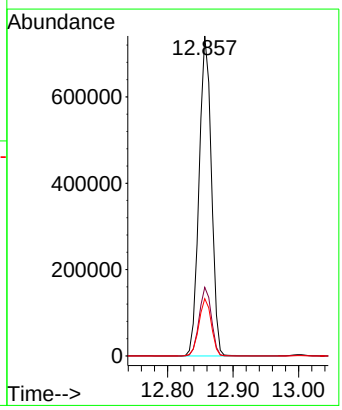
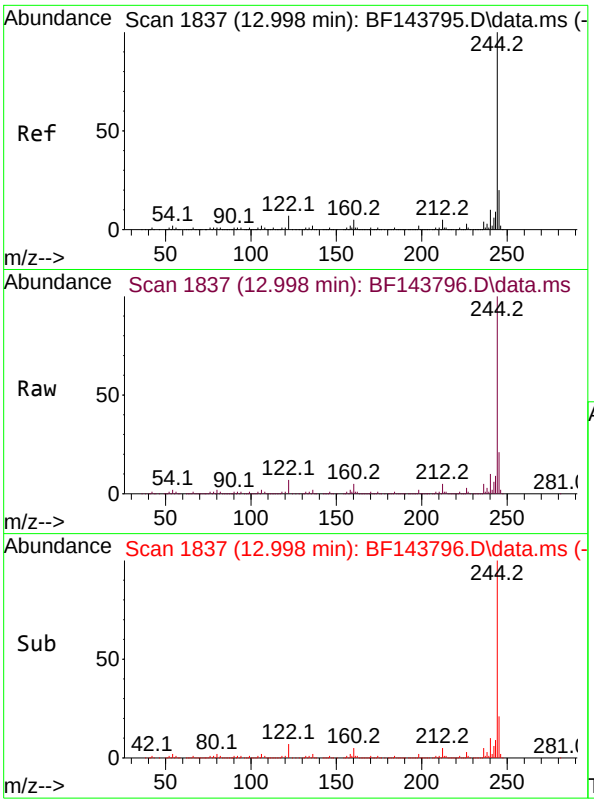


#78
Pyrene
Concen: 50.323 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:202 Resp: 960254

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.0	25.4
203	17.9	13.9	20.9

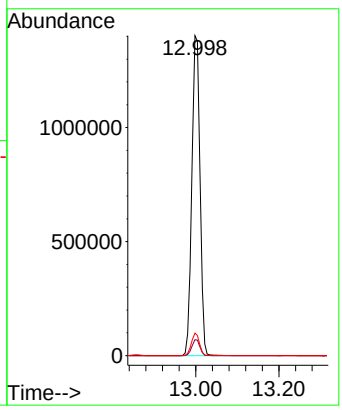




#79
Terphenyl-d14
Concen: 96.285 ng
RT: 12.998 min Scan# 18
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:244 Resp: 190342

Ion	Ratio	Lower	Upper
244	100		
212	5.0	3.9	5.9
122	7.0	5.6	8.4



Instrument :
BNA_F
ClientSampleId :
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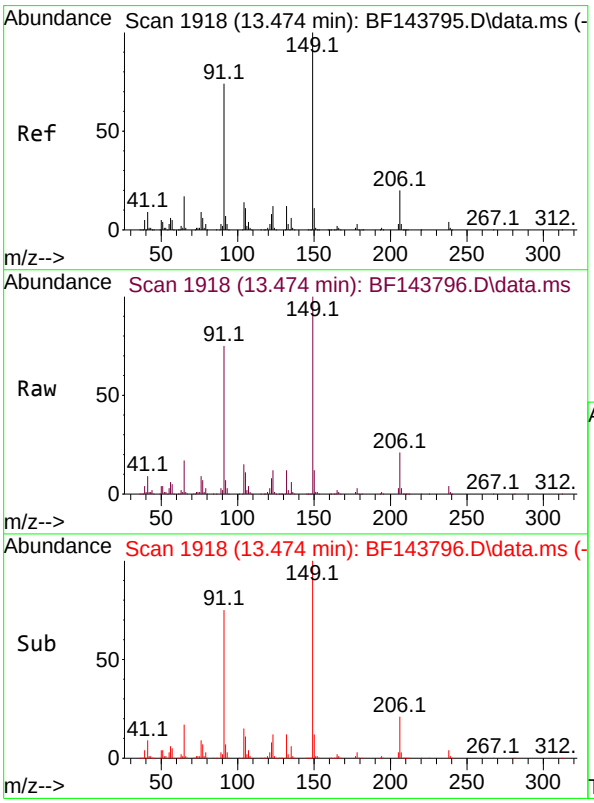
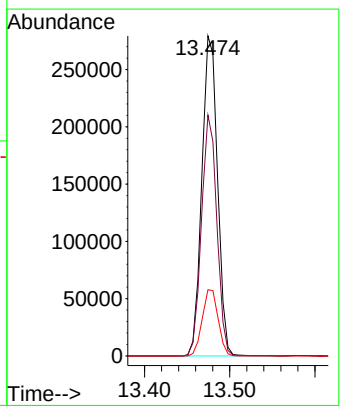
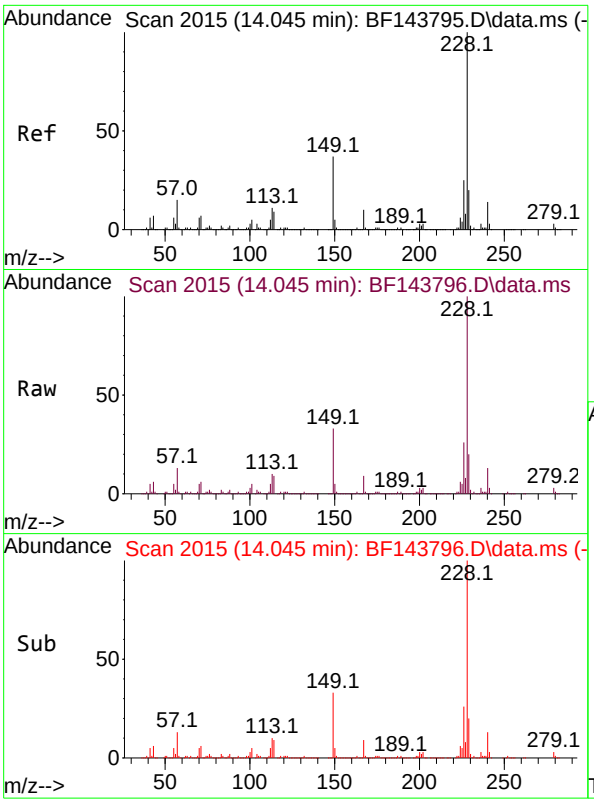


#80
Butylbenzylphthalate
Concen: 53.969 ng
RT: 13.474 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:149 Resp: 356288

Ion	Ratio	Lower	Upper
149	100		
91	75.2	59.5	89.3
206	20.7	16.1	24.1

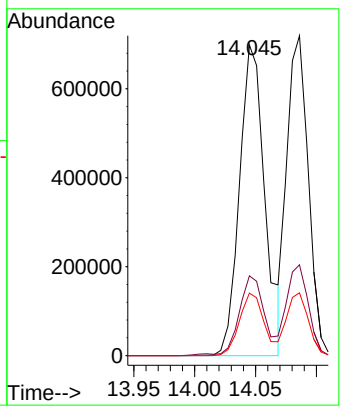




#81
Benzo(a)anthracene
Concen: 48.411 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:228 Resp: 100940

Ion	Ratio	Lower	Upper
228	100		
226	25.7	20.2	30.2
229	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
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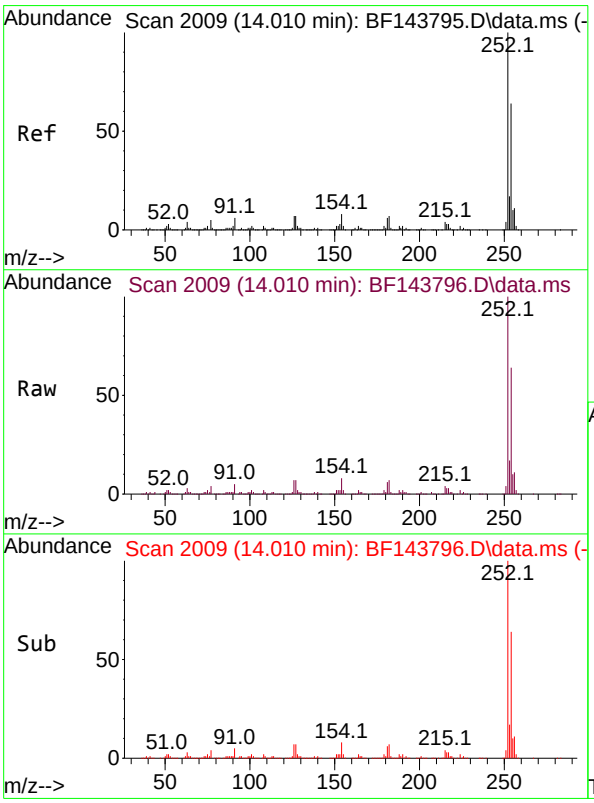
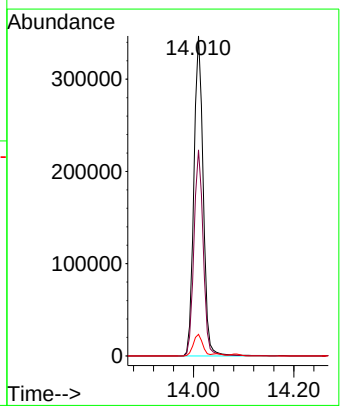
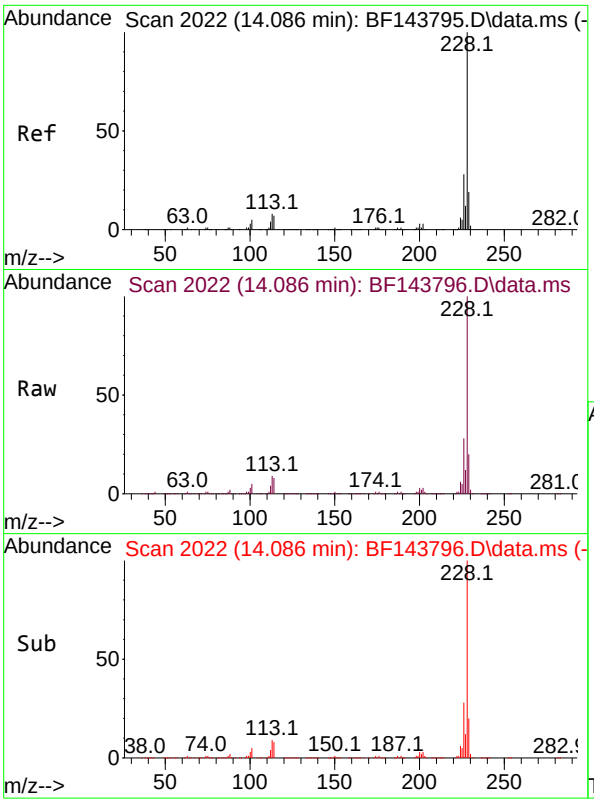


#82
3,3'-Dichlorobenzidine
Concen: 49.304 ng
RT: 14.010 min Scan# 2009
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:252 Resp: 445355

Ion	Ratio	Lower	Upper
252	100		
254	64.4	51.5	77.3
126	6.7	5.4	8.2

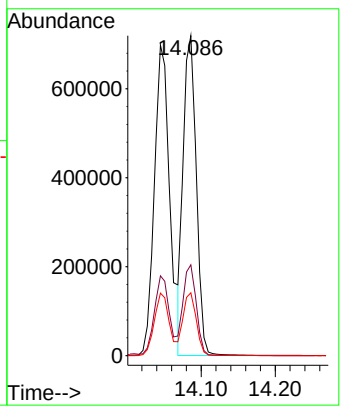




#83
Chrysene
Concen: 46.750 ng
RT: 14.086 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:228 Resp: 88202

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	33.8
229	19.6	15.6	23.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

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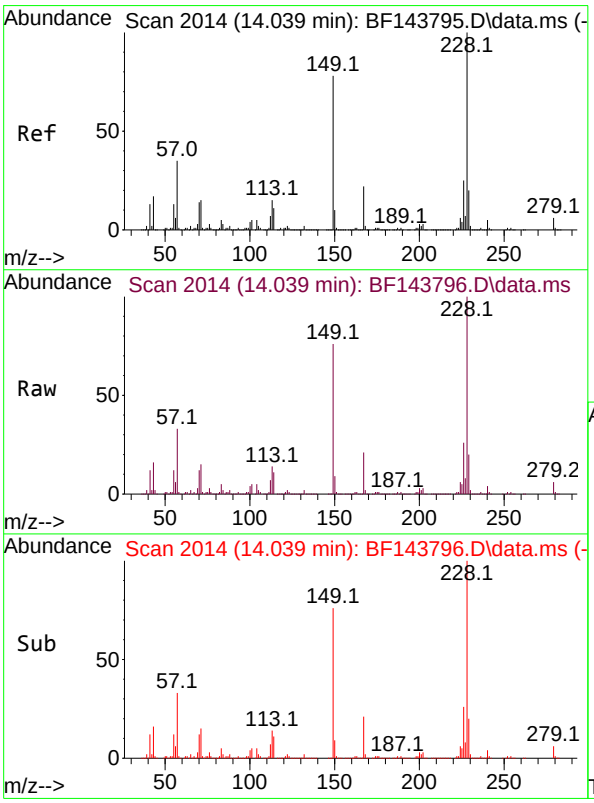
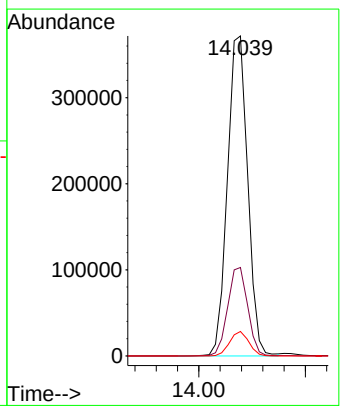
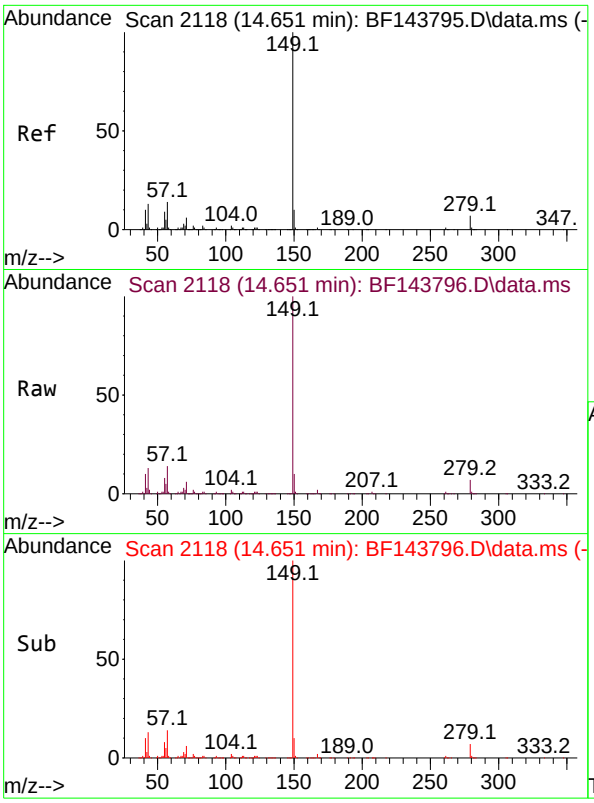


#84
Bis(2-ethylhexyl)phthalate
Concen: 50.632 ng
RT: 14.039 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:149 Resp: 489947

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.2
279	7.6	6.0	9.0

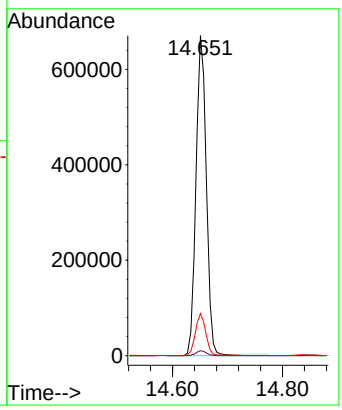




#85
Di-n-octyl phthalate
Concen: 49.877 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:149 Resp: 87547

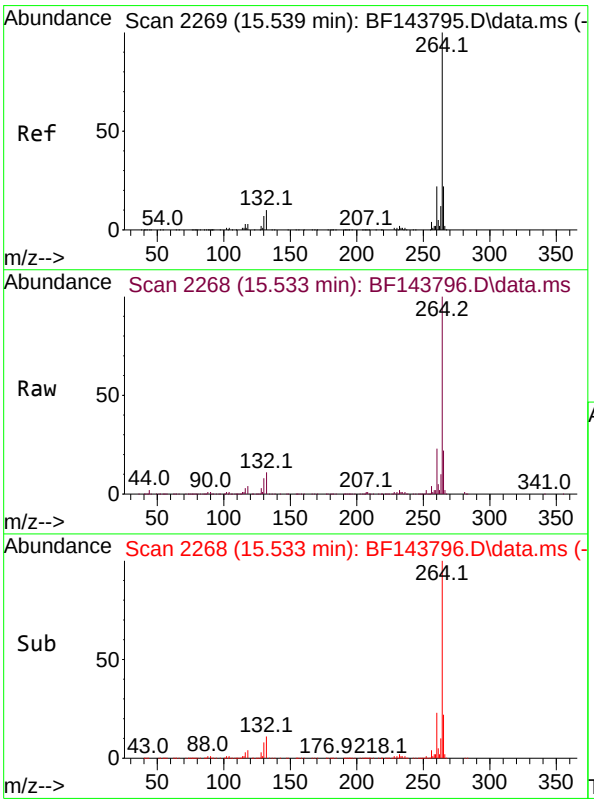
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.1	1.7
43	13.2	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

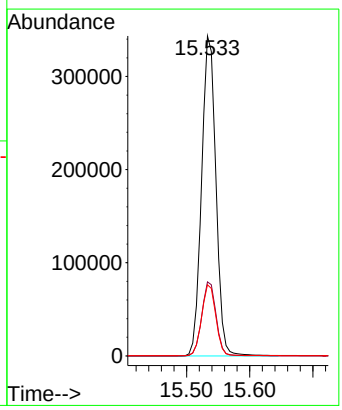
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

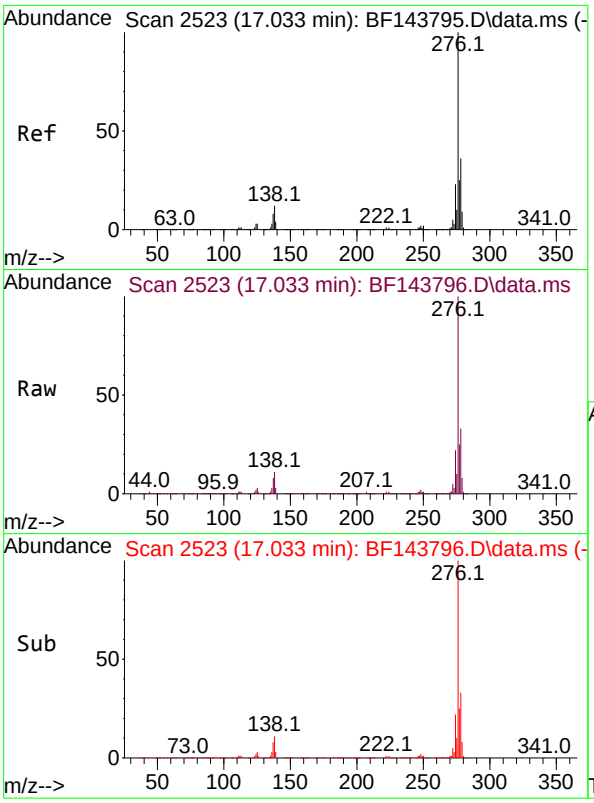


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:264 Resp: 541272

Ion	Ratio	Lower	Upper
264	100		
260	23.1	17.9	26.9
265	22.2	17.7	26.5

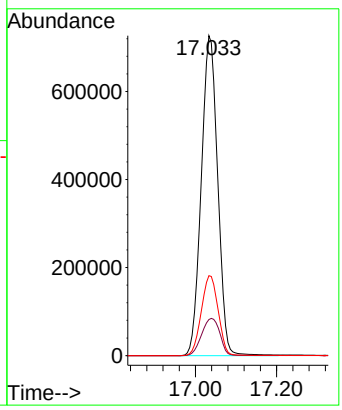




#87
Indeno(1,2,3-cd)pyrene
Concen: 49.707 ng
RT: 17.033 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:276 Resp: 204137

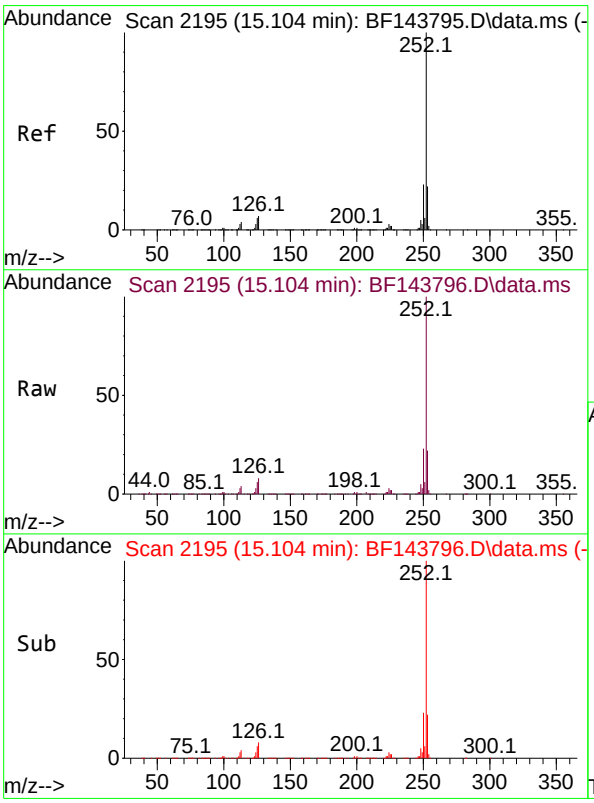
Ion	Ratio	Lower	Upper
276	100		
138	12.9	10.6	15.8
277	25.6	20.7	31.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

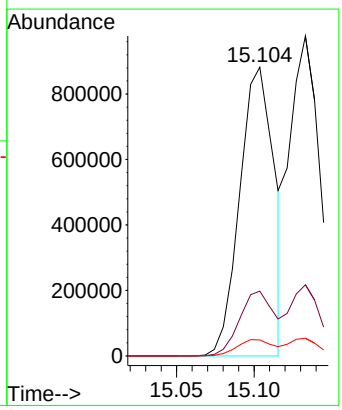
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

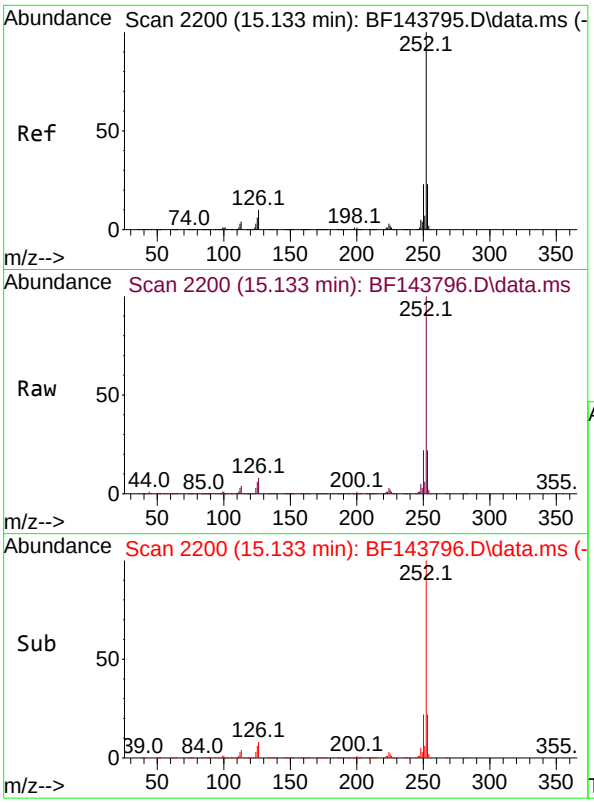


#88
Benzo(b)fluoranthene
Concen: 49.206 ng
RT: 15.104 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:252 Resp: 1356316

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.8
125	5.5	4.4	6.6

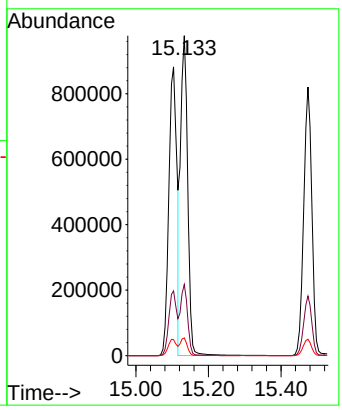




#89
Benzo(k)fluoranthene
Concen: 48.662 ng
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:252 Resp: 134759

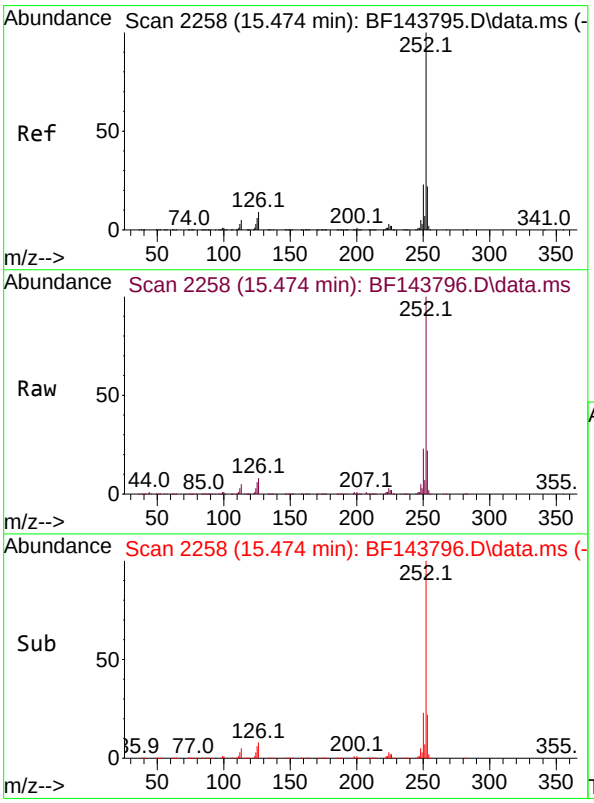
Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.9	26.9
125	5.5	4.6	6.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations APPROVED

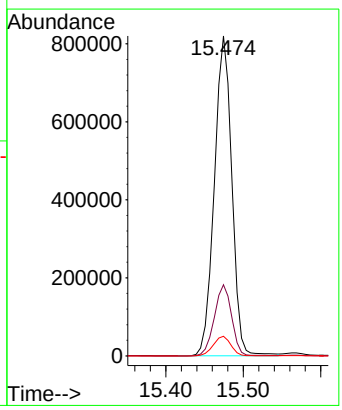
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

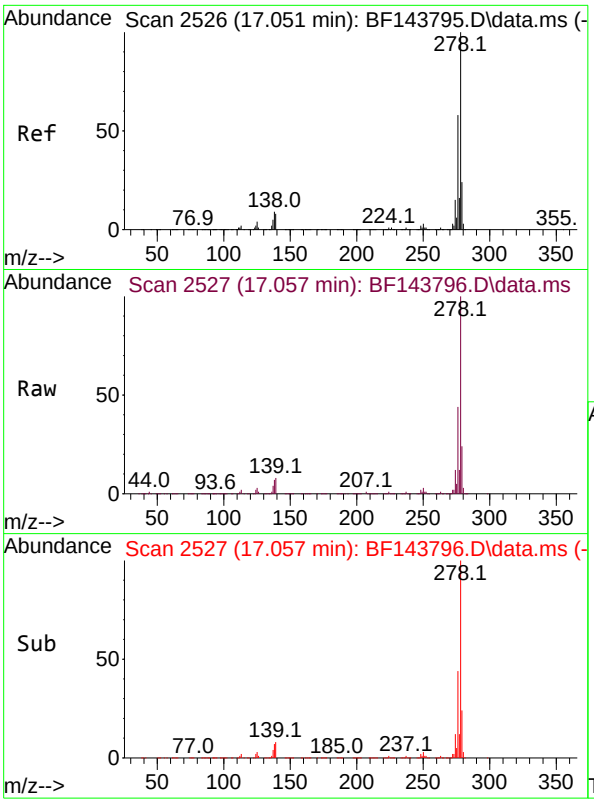


#90
Benzo(a)pyrene
Concen: 49.541 ng
RT: 15.474 min Scan# 2258
Delta R.T. -0.006 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:252 Resp: 1283604

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.6	26.4
125	6.1	5.0	7.4

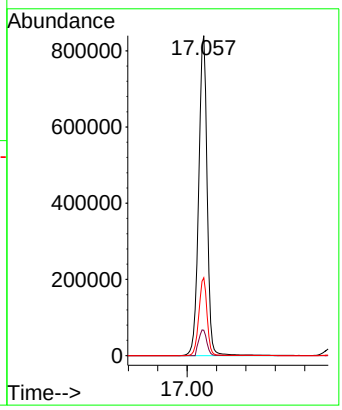




#91
Dibenzo(a,h)anthracene
Concen: 49.826 ng
RT: 17.057 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:278 Resp: 167367

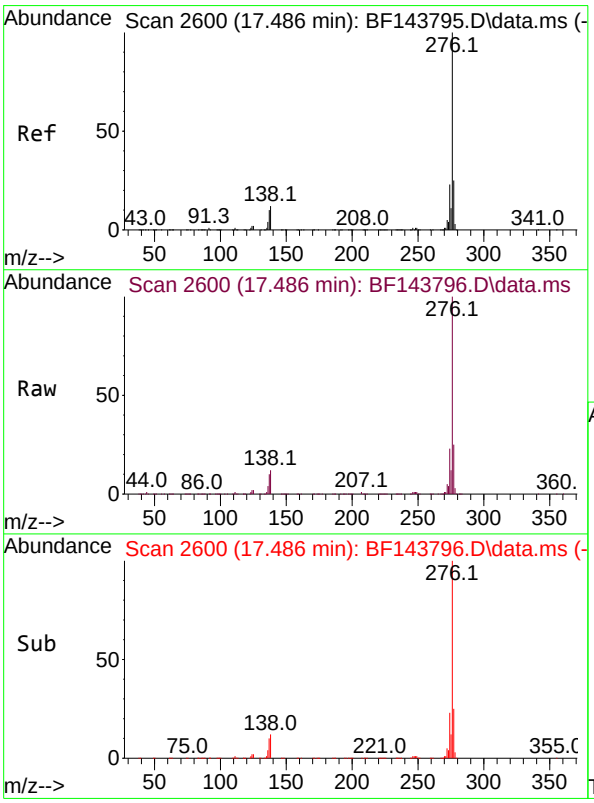
Ion	Ratio	Lower	Upper
278	100		
139	7.9	6.7	10.1
279	24.3	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations
APPROVED

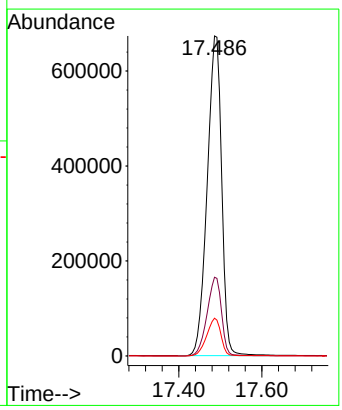
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025



#92
Benzo(g,h,i)perylene
Concen: 50.151 ng
RT: 17.486 min Scan# 2600
Delta R.T. -0.018 min
Lab File: BF143796.D
Acq: 23 Sep 2025 14:28

Tgt Ion:276 Resp: 1623902

Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.6	29.4
138	11.8	9.2	13.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143797.D
Acq On : 23 Sep 2025 14:58
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:06:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	132440	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	482940	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	240564	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	364411	20.000	ng	0.00
76) Chrysene-d12	14.057	240	359318	20.000	ng	0.00
86) Perylene-d12	15.533	264	519571	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	948307	115.234	ng	0.00
7) Phenol-d6	6.510	99	1089571	112.196	ng	0.00
23) Nitrobenzene-d5	7.451	82	956391	124.628	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	396463	115.480	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1664507	102.249	ng	0.00
79) Terphenyl-d14	13.004	244	2132520	116.521	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.646	88	231372	59.300	ng	98
3) Pyridine	3.416	79	636709	60.455	ng	99
4) n-Nitrosodimethylamine	3.369	42	324819	61.507	ng	99
6) Aniline	6.551	93	785861	57.487	ng	100
8) 2-Chlorophenol	6.669	128	494437	59.248	ng	99
9) Benzaldehyde	6.440	77	611123	74.093	ng	99
10) Phenol	6.522	94	644396m	58.860	ng	
11) bis(2-Chloroethyl)ether	6.622	93	504773	58.819	ng	99
12) 1,3-Dichlorobenzene	6.828	146	550246	56.789	ng	99
13) 1,4-Dichlorobenzene	6.904	146	548117	56.685	ng	100
14) 1,2-Dichlorobenzene	7.057	146	520261	56.809	ng	99
15) Benzyl Alcohol	7.028	79	414075	60.843	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	1178357	57.906	ng	100
17) 2-Methylphenol	7.134	107	381125	58.990	ng	99
18) Hexachloroethane	7.404	117	195969	57.629	ng	95
19) n-Nitroso-di-n-propyla...	7.304	70	345358	57.020	ng	100
20) 3+4-Methylphenols	7.287	107	454811	57.806	ng	95
22) Acetophenone	7.298	105	584748	55.128	ng	98
24) Nitrobenzene	7.469	77	523344	59.844	ng	98
25) Isophorone	7.710	82	917958	59.707	ng	99
26) 2-Nitrophenol	7.787	139	225802	62.050	ng	96
27) 2,4-Dimethylphenol	7.816	122	413744	60.209	ng	99
28) bis(2-Chloroethoxy)met...	7.916	93	567489	56.813	ng	99
29) 2,4-Dichlorophenol	8.022	162	402655	59.550	ng	99
30) 1,2,4-Trichlorobenzene	8.110	180	404040	57.579	ng	100
31) Naphthalene	8.192	128	1287223	55.678	ng	99
32) Benzoic acid	7.916	122	230784	69.608	ng	97
33) 4-Chloroaniline	8.239	127	467252	57.512	ng	99
34) Hexachlorobutadiene	8.310	225	303886	58.093	ng	99
35) Caprolactam	8.610	113	110413	63.887	ng	94
36) 4-Chloro-3-methylphenol	8.710	107	379597	59.859	ng	99
37) 2-Methylnaphthalene	8.881	142	828108	56.174	ng	99
38) 1-Methylnaphthalene	8.981	142	796215	56.428	ng	100
40) 1,2,4,5-Tetrachloroben...	9.051	216	405534	55.860	ng	99
41) Hexachlorocyclopentadiene	9.039	237	289489	62.918	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	282839	62.219	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143797.D
Acq On : 23 Sep 2025 14:58
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:06:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	289963	60.982	ng	99
46) 1,1'-Biphenyl	9.345	154	957109	54.963	ng	99
47) 2-Chloronaphthalene	9.375	162	779426	55.605	ng	99
48) 2-Nitroaniline	9.463	65	288403	68.075	ng	97
49) Acenaphthylene	9.786	152	1091835	56.581	ng	100
50) Dimethylphthalate	9.639	163	859613	58.627	ng	100
51) 2,6-Dinitrotoluene	9.704	165	166977	69.313	ng	98
52) Acenaphthene	9.957	154	704698	55.494	ng	99
53) 3-Nitroaniline	9.875	138	192607	65.960	ng	99
54) 2,4-Dinitrophenol	9.975	184	54678	61.464	ng	81
55) Dibenzofuran	10.134	168	1004529	55.941	ng	100
56) 4-Nitrophenol	10.022	139	142495	60.557	ng	97
57) 2,4-Dinitrotoluene	10.104	165	222260	61.297	ng	99
58) Fluorene	10.475	166	711929	53.330	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	260302	63.904	ng	99
60) Diethylphthalate	10.345	149	800261	58.305	ng	99
61) 4-Chlorophenyl-phenyle...	10.469	204	378141	55.593	ng	98
62) 4-Nitroaniline	10.486	138	175465	63.907	ng	99
63) Azobenzene	10.628	77	839301	58.022	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	90861	62.624	ng	91
66) n-Nitrosodiphenylamine	10.586	169	695896	58.067	ng	99
67) 4-Bromophenyl-phenylether	10.957	248	373431	60.132	ng	99
68) Hexachlorobenzene	11.022	284	504432	58.941	ng	99
69) Atrazine	11.110	200	204628	58.963	ng	98
70) Pentachlorophenol	11.216	266	277473	65.133	ng	100
71) Phenanthrene	11.439	178	1042871	55.742	ng	99
72) Anthracene	11.492	178	1052693	56.095	ng	100
73) Carbazole	11.645	167	925032	56.377	ng	99
74) Di-n-butylphthalate	11.975	149	1113894	59.029	ng	100
75) Fluoranthene	12.627	202	1044763	55.523	ng	99
77) Benzidine	12.751	184	596216	68.094	ng	99
78) Pyrene	12.857	202	1089660	61.683	ng	100
80) Butylbenzylphthalate	13.474	149	411027	67.252	ng	99
81) Benzo(a)anthracene	14.045	228	1148366	59.491	ng	100
82) 3,3'-Dichlorobenzidine	14.010	252	517428	61.874	ng	100
83) Chrysene	14.086	228	1014385	58.075	ng	100
84) Bis(2-ethylhexyl)phtha...	14.039	149	556458	62.115	ng	100
85) Di-n-octyl phthalate	14.651	149	1010224	62.167	ng	99
87) Indeno(1,2,3-cd)pyrene	17.039	276	2413125	61.213	ng	99
88) Benzo(b)fluoranthene	15.104	252	1562058	59.037	ng	100
89) Benzo(k)fluoranthene	15.133	252	1604602	60.363	ng	99
90) Benzo(a)pyrene	15.474	252	1514049	60.876	ng	99
91) Dibenzo(a,h)anthracene	17.057	278	1959781	60.781	ng	99
92) Benzo(g,h,i)perylene	17.492	276	1938747	62.375	ng	100

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

ICAL Form

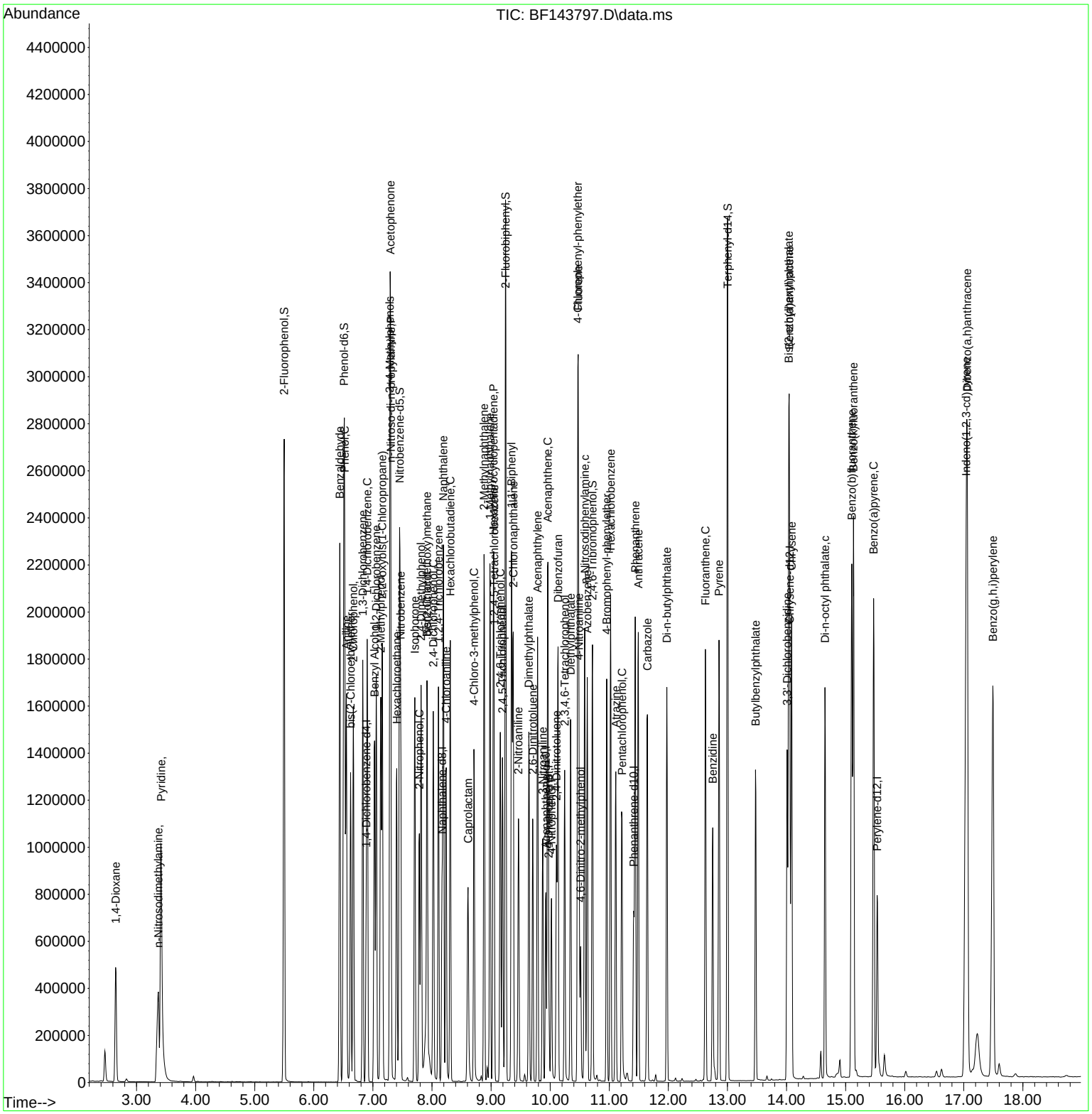
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143797.D
Acq On : 23 Sep 2025 14:58
Operator : RC/JU
Sample : SSTDICC060
Misc :
ALS Vial : 8 Sample Multiplier: 1

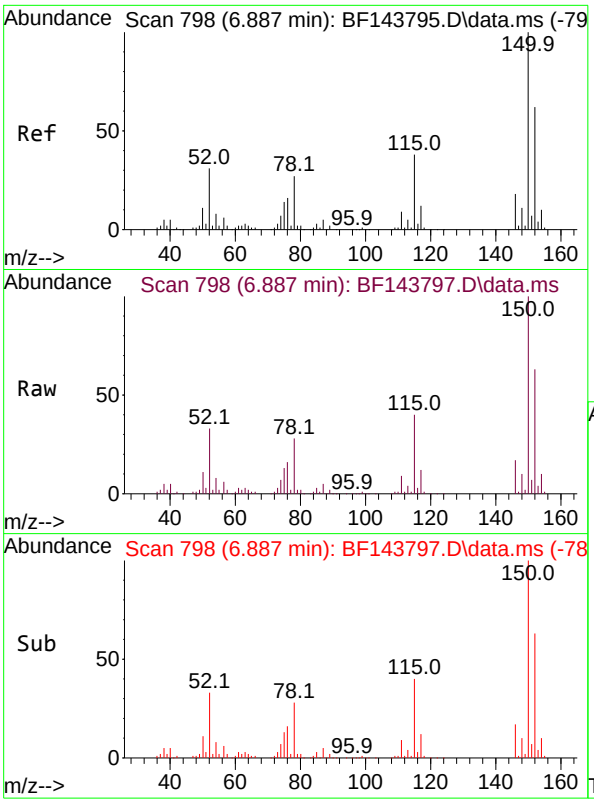
Quant Time: Sep 23 17:06:59 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

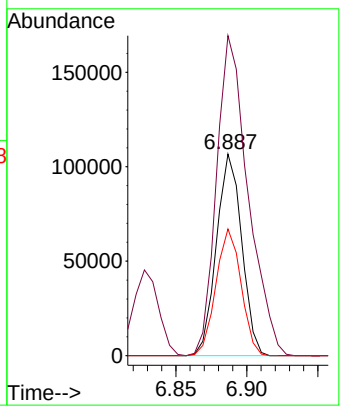




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 79
Delta R.T. -0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:152 Resp: 13244

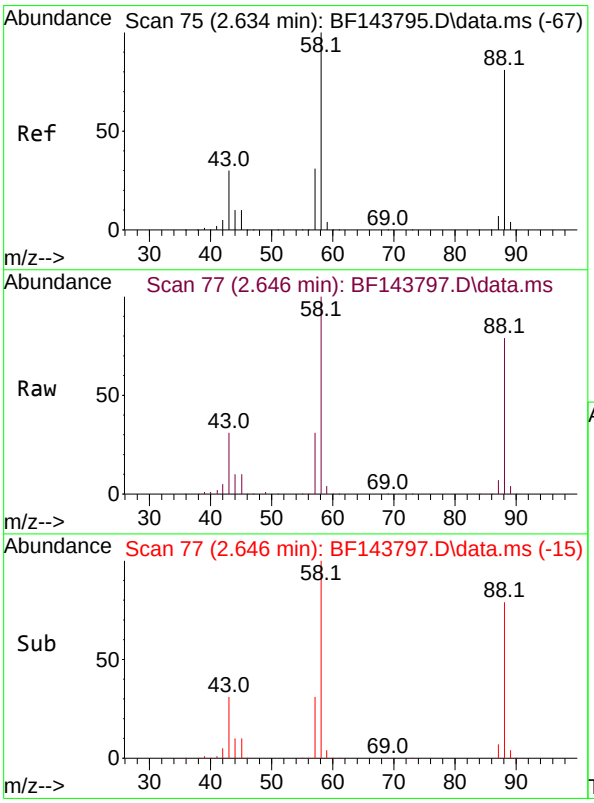
Ion	Ratio	Lower	Upper
152	100		
150	158.8	129.6	194.4
115	62.9	49.0	73.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
APPROVED

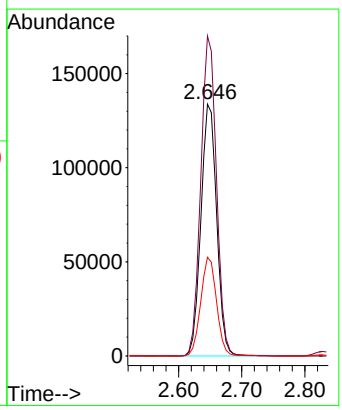
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

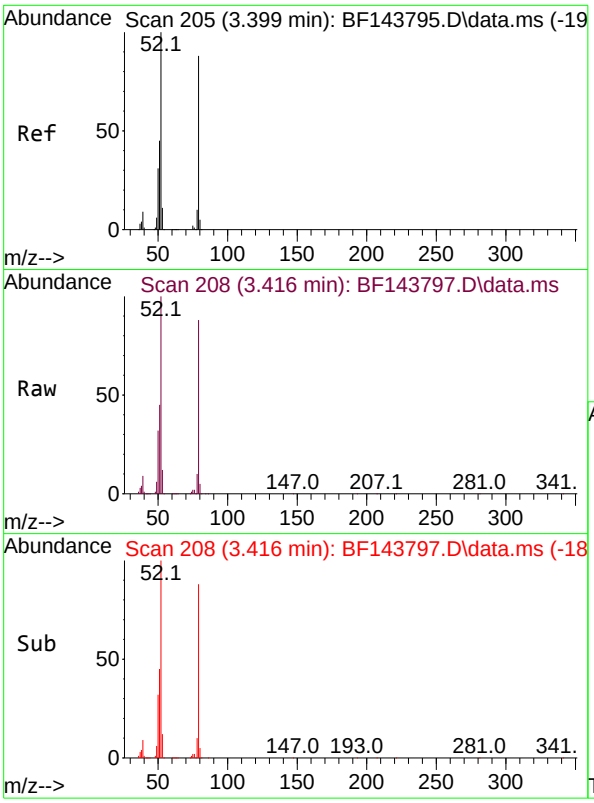


#2
1,4-Dioxane
Concen: 59.300 ng
RT: 2.646 min Scan# 77
Delta R.T. 0.012 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 88 Resp: 231372

Ion	Ratio	Lower	Upper
88	100		
58	126.7	99.4	149.2
43	39.3	30.6	45.8

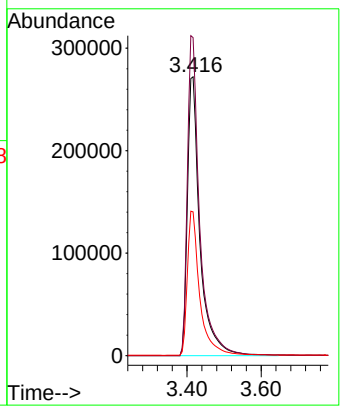




#3
Pyridine
Concen: 60.455 ng
RT: 3.416 min Scan# 2
Delta R.T. 0.018 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 79 Resp: 63670

Ion	Ratio	Lower	Upper
79	100		
52	114.1	90.5	135.7
51	51.6	40.6	61.0



Instrument :
BNA_F
ClientSampleId :
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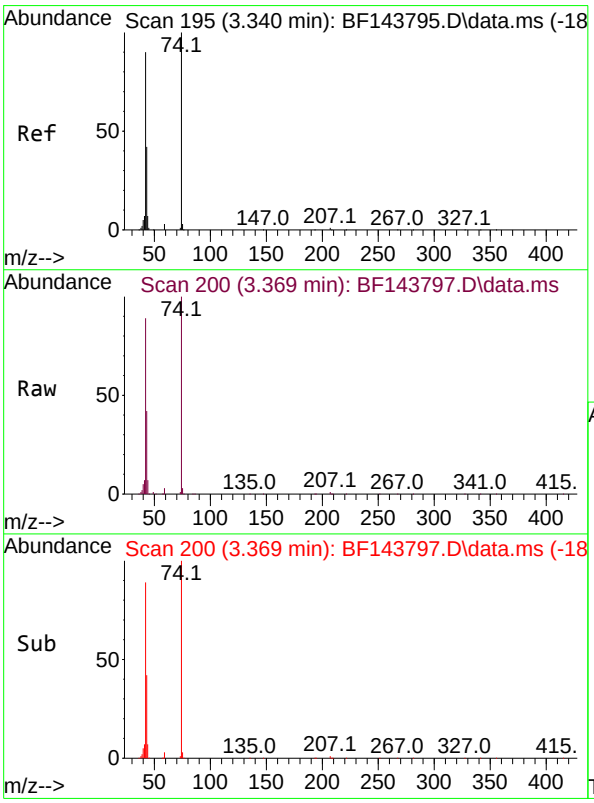
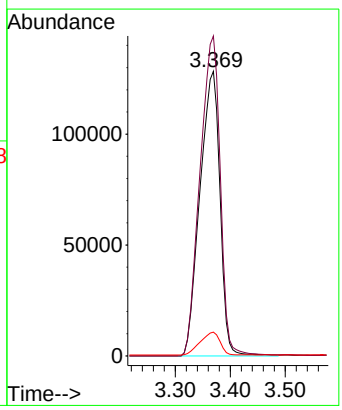
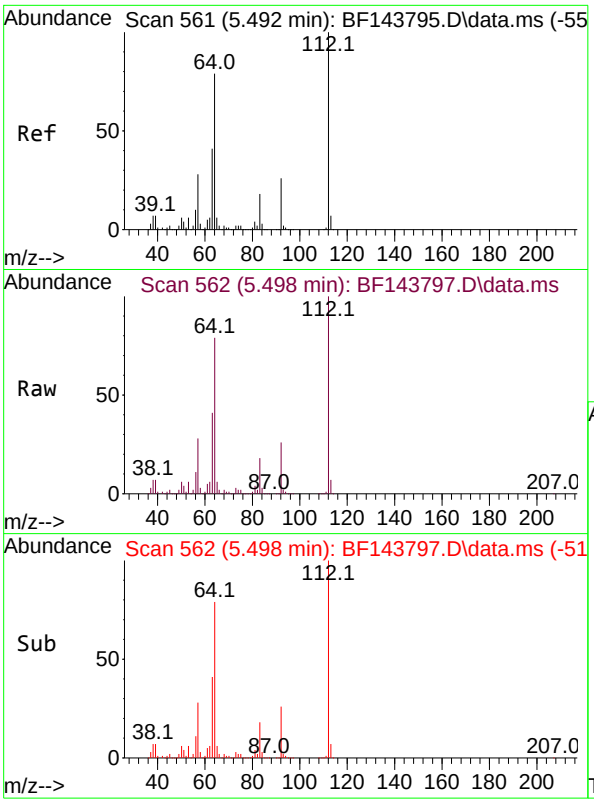


#4
n-Nitrosodimethylamine
Concen: 61.507 ng
RT: 3.369 min Scan# 200
Delta R.T. 0.012 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 42 Resp: 324819

Ion	Ratio	Lower	Upper
42	100		
74	112.5	89.1	133.7
44	8.4	6.4	9.6





#5
2-Fluorophenol
Concen: 115.234 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:112 Resp: 94830

Ion	Ratio	Lower	Upper
112	100		
64	78.7	63.0	94.4
63	41.3	32.6	49.0

Instrument :
BNA_F
ClientSampleId :
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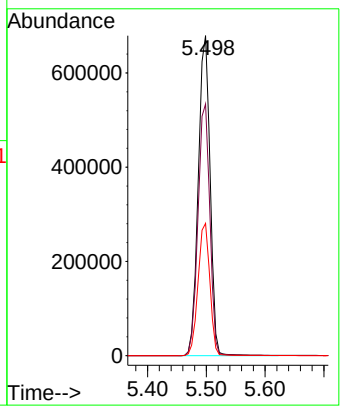
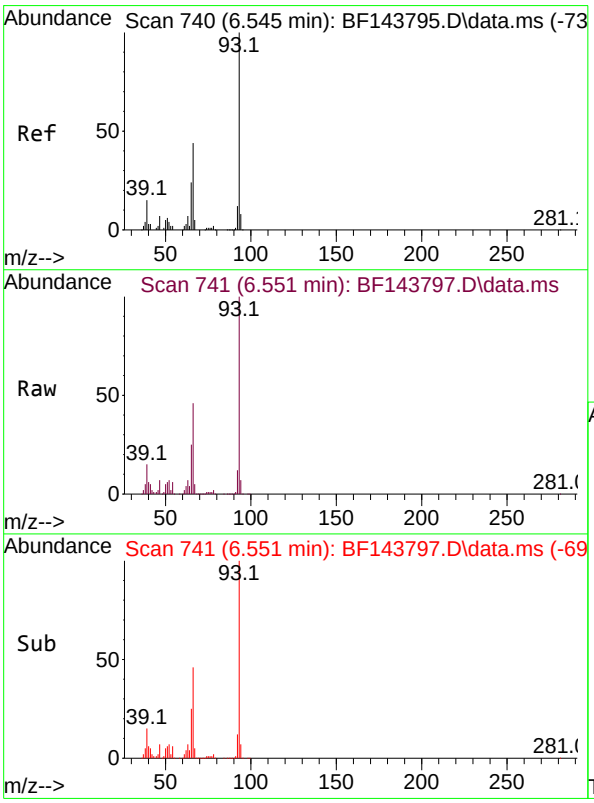
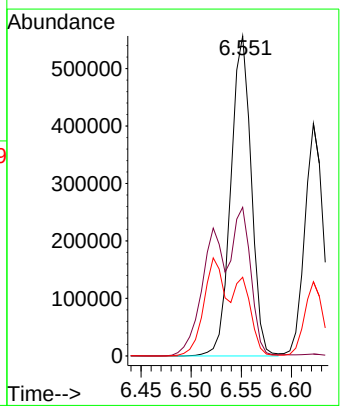


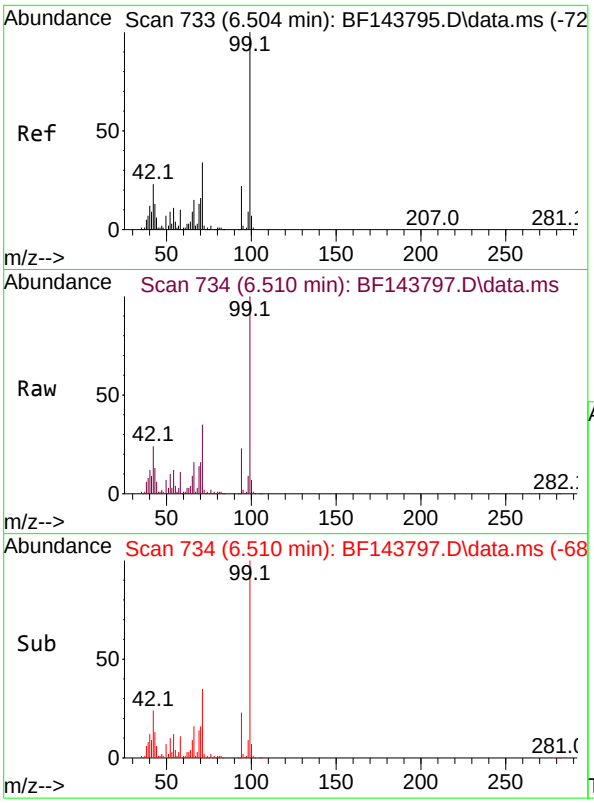


#6
Aniline
Concen: 57.487 ng
RT: 6.551 min Scan# 741
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 93 Resp: 785861

Ion	Ratio	Lower	Upper
93	100		
66	46.4	37.1	55.7
65	24.6	19.4	29.0

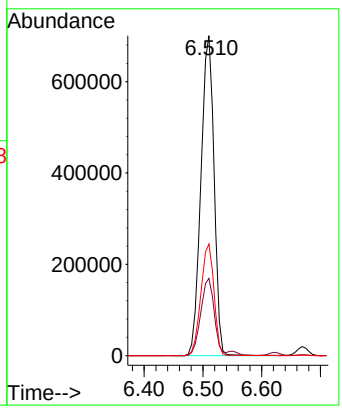




#7
Phenol-d6
Concen: 112.196 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 99 Resp: 108957

Ion	Ratio	Lower	Upper
99	100		
42	24.1	18.6	28.0
71	34.9	27.0	40.4



Instrument :
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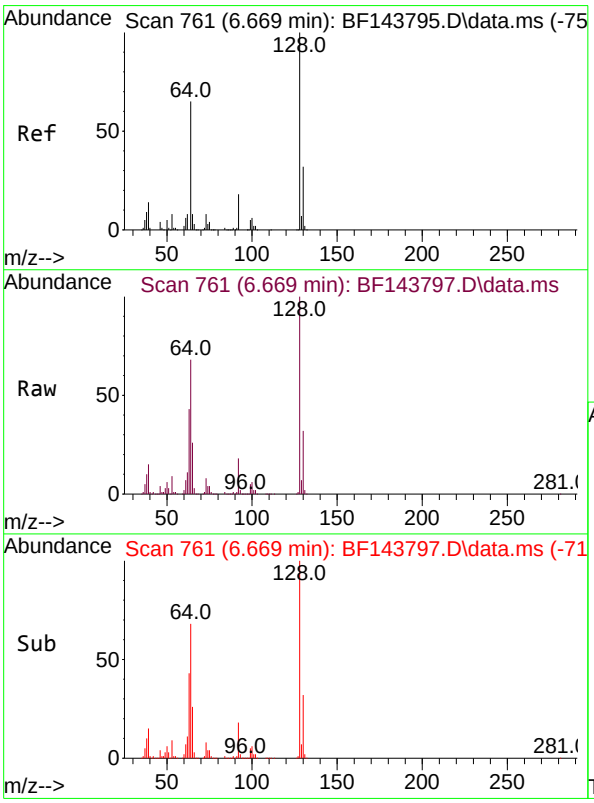
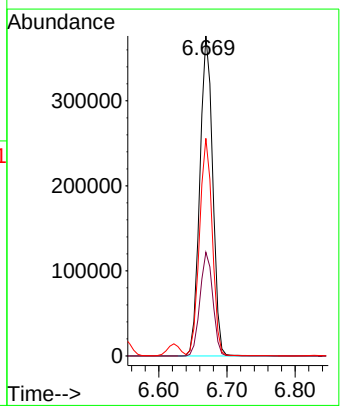
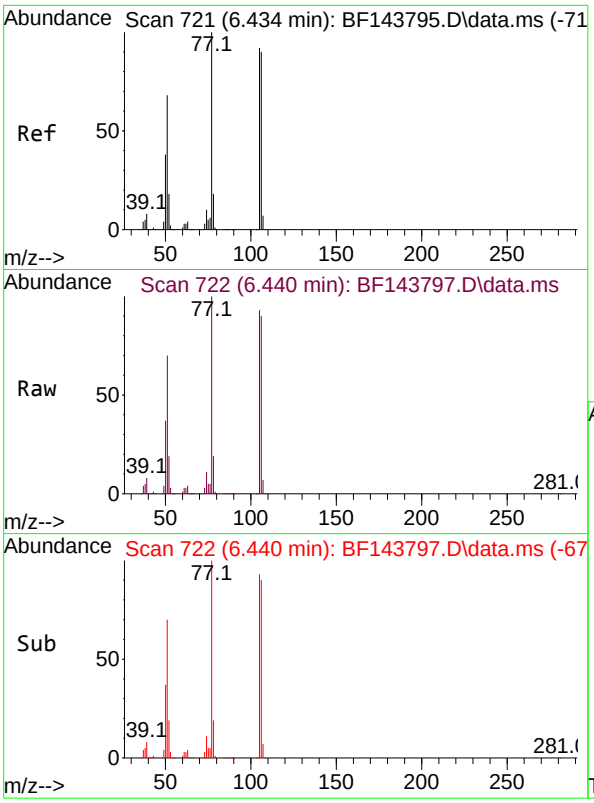


#8
2-Chlorophenol
Concen: 59.248 ng
RT: 6.669 min Scan# 761
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:128 Resp: 494437

Ion	Ratio	Lower	Upper
128	100		
130	32.4	12.2	52.2
64	68.0	46.5	86.5

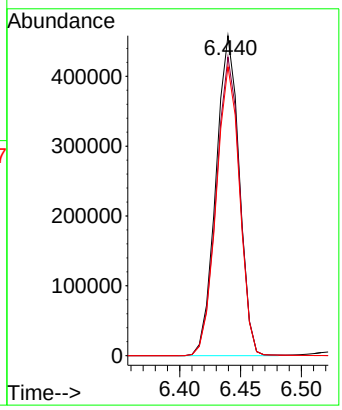




#9
Benzaldehyde
Concen: 74.093 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 77 Resp: 61112

Ion	Ratio	Lower	Upper
77	100		
105	93.3	71.8	111.8
106	90.3	69.8	109.8



Instrument :
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ClientSampleId :
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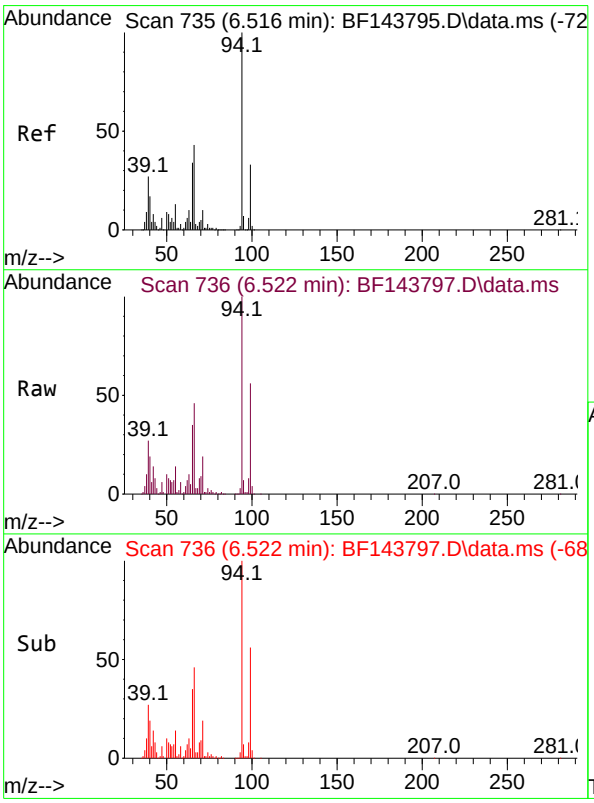
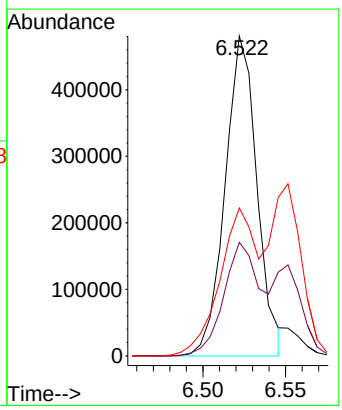
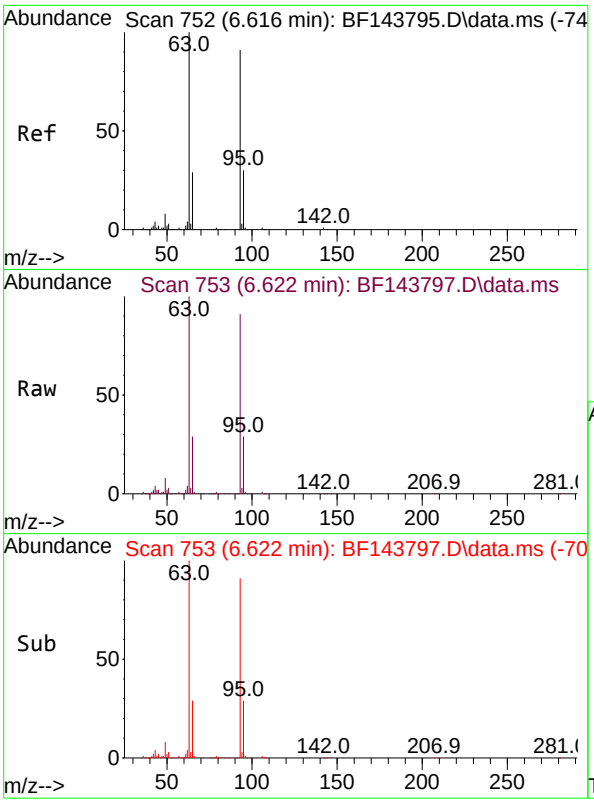


#10
Phenol
Concen: 58.860 ng m
RT: 6.522 min Scan# 736
Delta R.T. -0.006 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 94 Resp: 644396

Ion	Ratio	Lower	Upper
94	100		
65	35.5	14.2	54.2
66	46.2	24.1	64.1





#11
bis(2-Chloroethyl)ether
Concen: 58.819 ng
RT: 6.622 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 93 Resp: 50477

Ion	Ratio	Lower	Upper
93	100		
63	110.4	89.2	129.2
95	32.1	12.9	52.9

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

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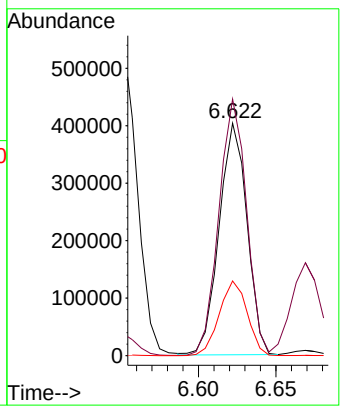
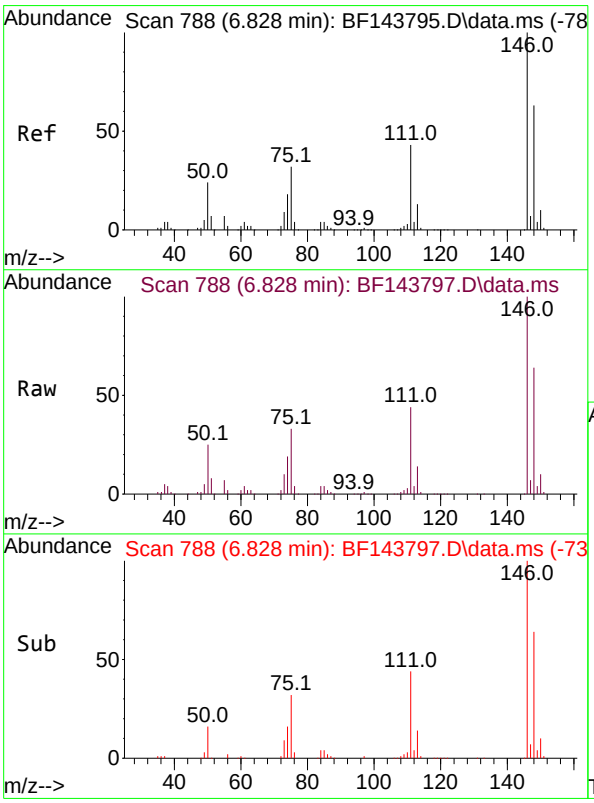
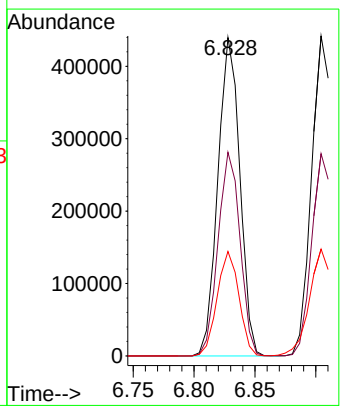


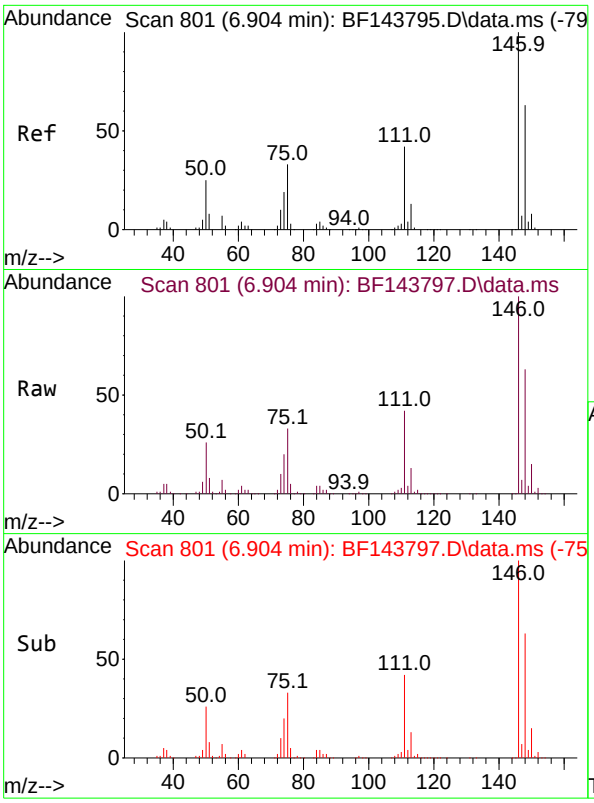


#12
1,3-Dichlorobenzene
Concen: 56.789 ng
RT: 6.828 min Scan# 788
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:146 Resp: 550246

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.4	75.6
75	32.8	25.6	38.4

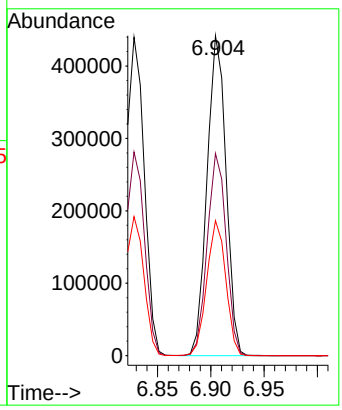




#13
1,4-Dichlorobenzene
Concen: 56.685 ng
RT: 6.904 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:146 Resp: 54811

Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.7	76.1
111	42.2	33.4	50.2



Instrument :
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ClientSampleId :
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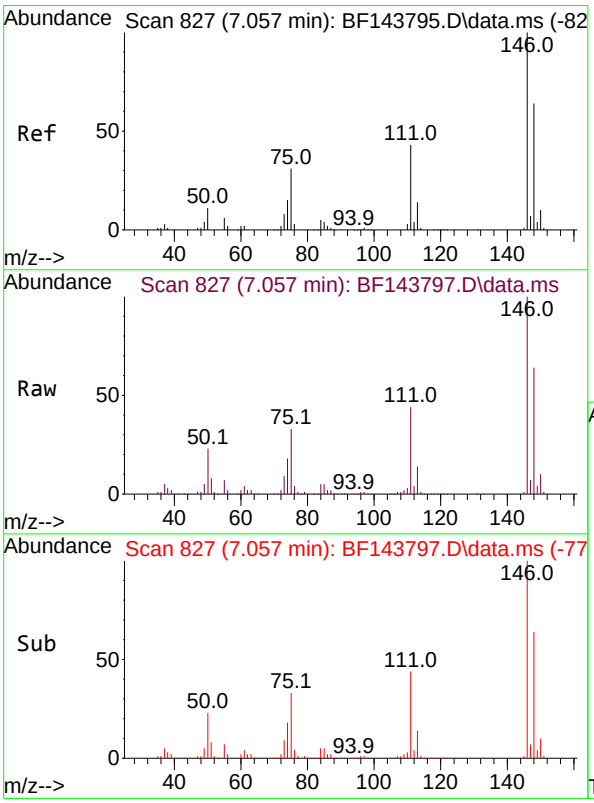
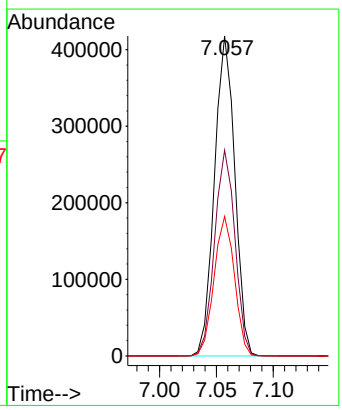
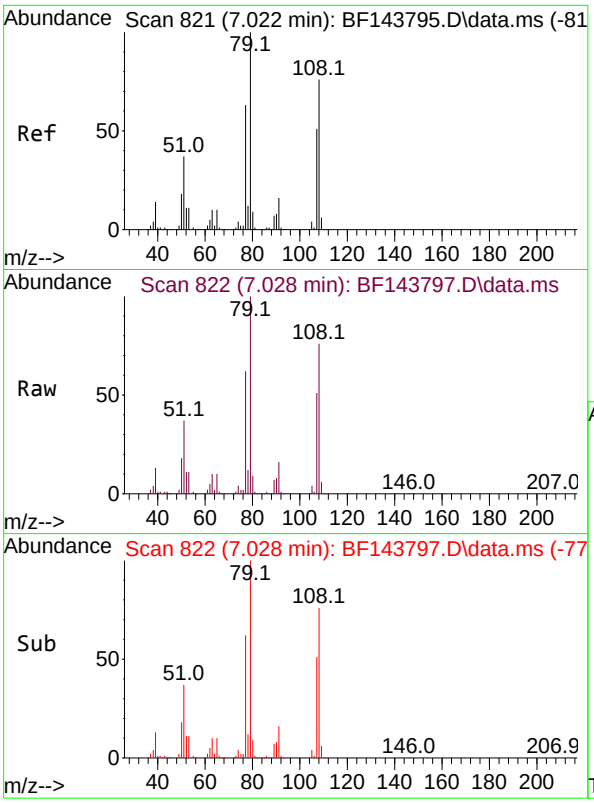


#14
1,2-Dichlorobenzene
Concen: 56.809 ng
RT: 7.057 min Scan# 827
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:146 Resp: 520261

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.1	76.7
111	43.6	34.3	51.5





#15
Benzyl Alcohol
Concen: 60.843 ng
RT: 7.028 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 79 Resp: 41407

Ion	Ratio	Lower	Upper
79	100		
108	75.8	60.5	90.7
77	61.9	50.3	75.5

Instrument :
BNA_F
ClientSampleId :
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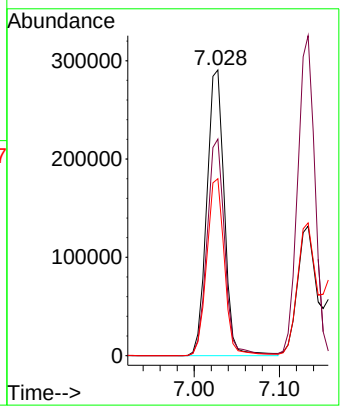
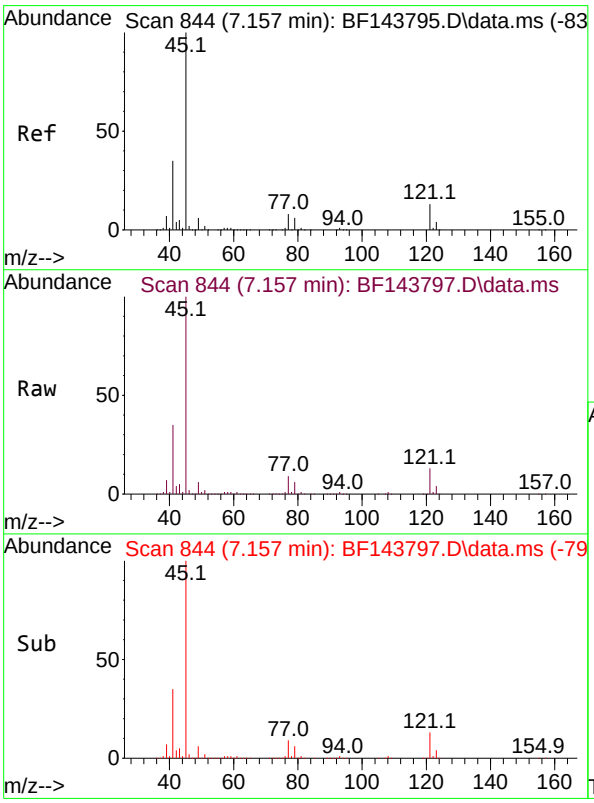
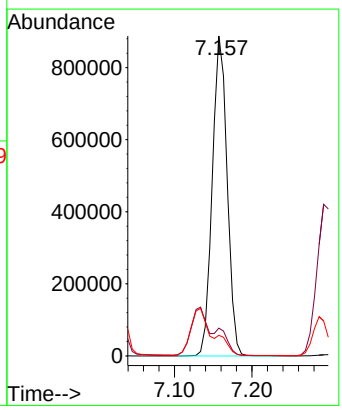


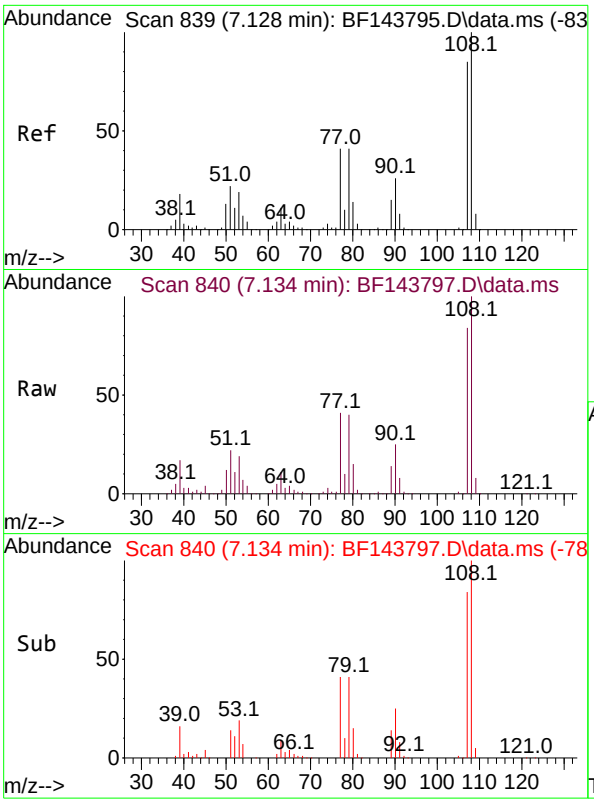


#16
2,2'-oxybis(1-Chloropropane)
Concen: 57.906 ng
RT: 7.157 min Scan# 844
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 45 Resp: 1178357

Ion	Ratio	Lower	Upper
45	100		
77	8.7	0.0	28.5
79	6.4	0.0	26.3

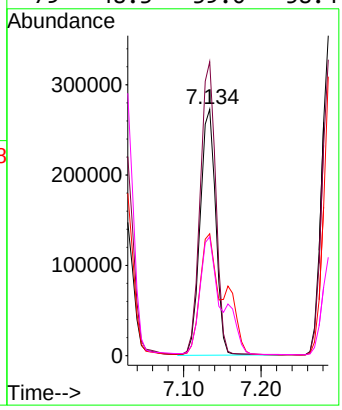




#17
2-Methylphenol
Concen: 58.990 ng
RT: 7.134 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:107 Resp: 38112

Ion	Ratio	Lower	Upper
107	100		
108	119.3	94.2	141.4
77	49.5	38.6	58.0
79	48.3	39.0	58.4



Instrument :
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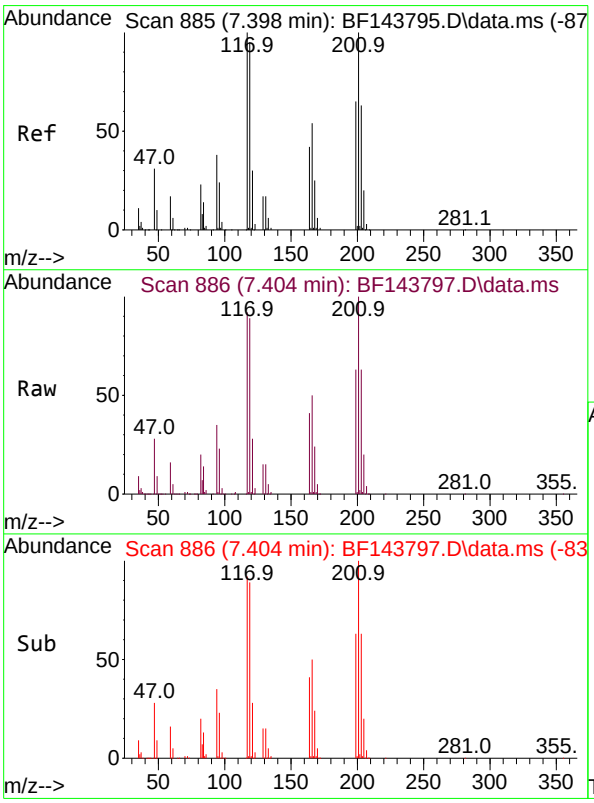
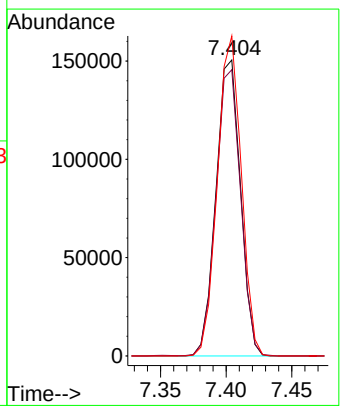
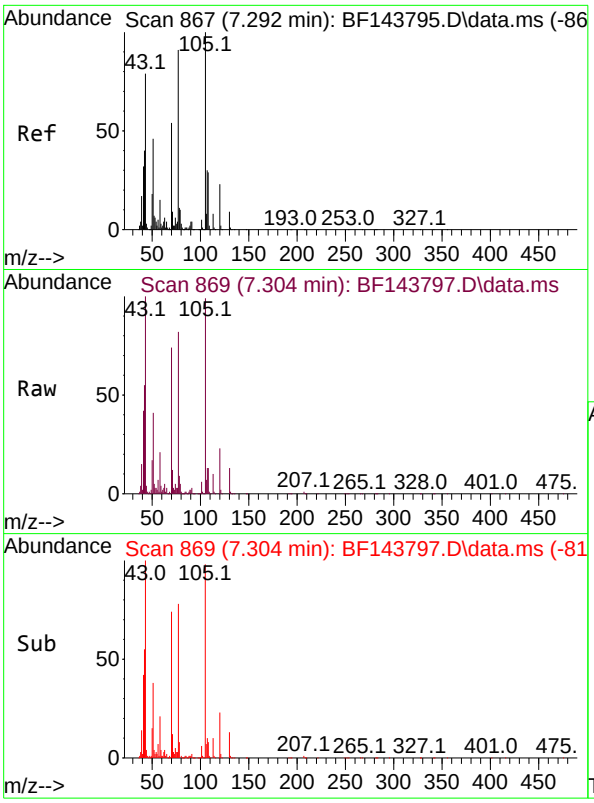


#18
Hexachloroethane
Concen: 57.629 ng
RT: 7.404 min Scan# 886
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:117 Resp: 195969

Ion	Ratio	Lower	Upper
117	100		
119	96.7	76.2	114.2
201	108.2	79.7	119.5

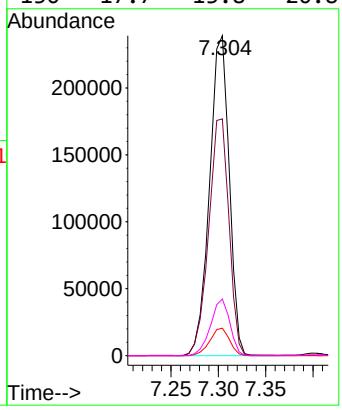




#19
n-Nitroso-di-n-propylamine
Concen: 57.020 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 70 Resp: 34535

Ion	Ratio	Lower	Upper
70	100		
42	74.0	59.4	89.0
101	8.6	7.1	10.7
130	17.7	13.8	20.8



Instrument :
BNA_F
ClientSampleId :
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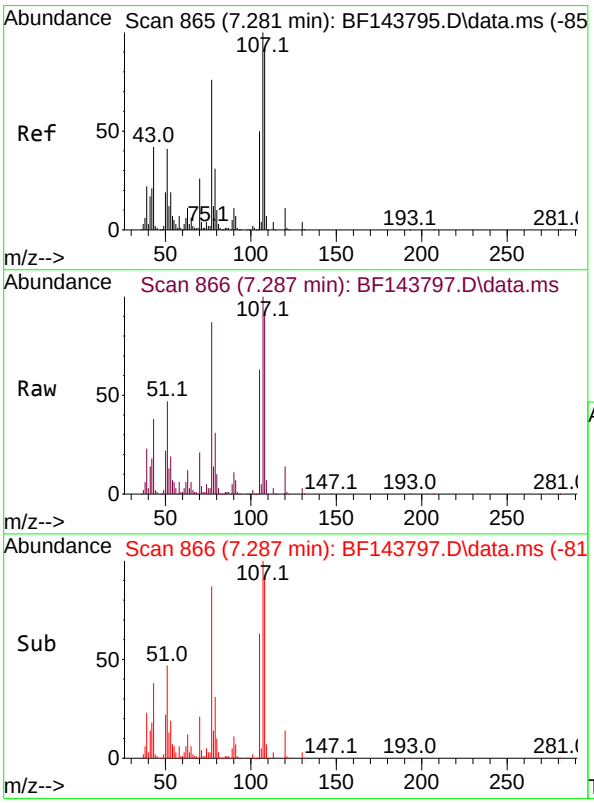
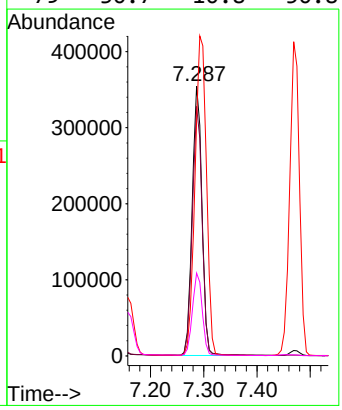
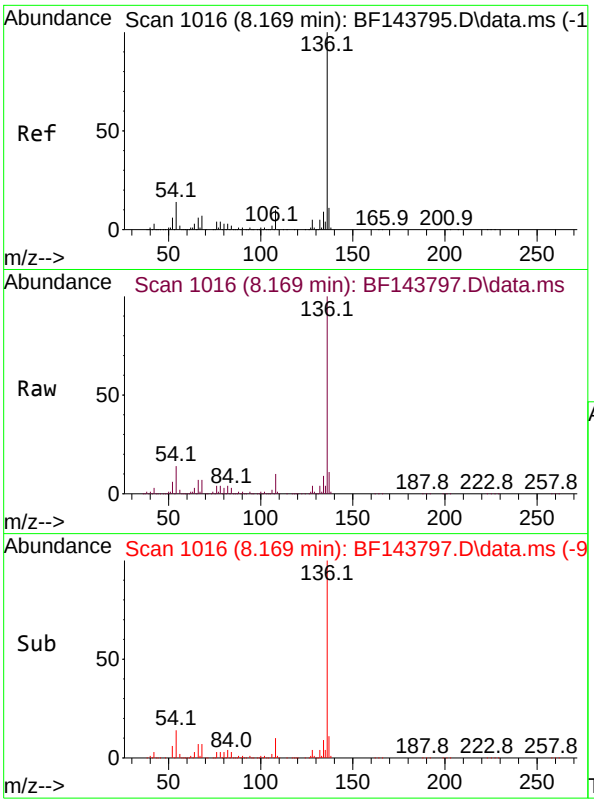


#20
3+4-Methylphenols
Concen: 57.806 ng
RT: 7.287 min Scan# 866
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:107 Resp: 454811

Ion	Ratio	Lower	Upper
107	100		
108	92.5	72.5	112.5
77	87.2	56.2	96.2
79	30.7	10.8	50.8

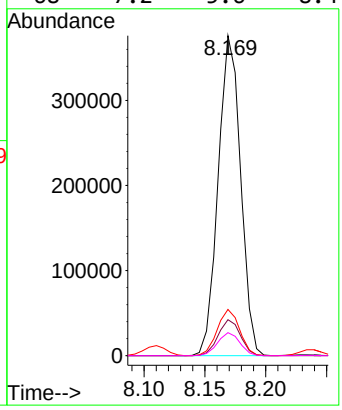




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 10
Delta R.T. -0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:136 Resp: 48294

Ion	Ratio	Lower	Upper
136	100		
137	11.2	9.0	13.4
54	14.4	11.2	16.8
68	7.2	5.6	8.4



Instrument :
BNA_F
ClientSampleId :
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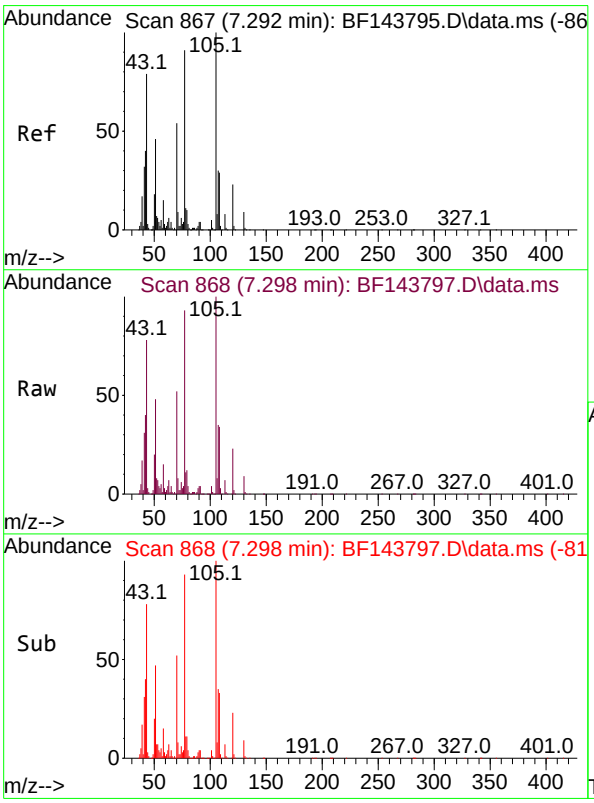
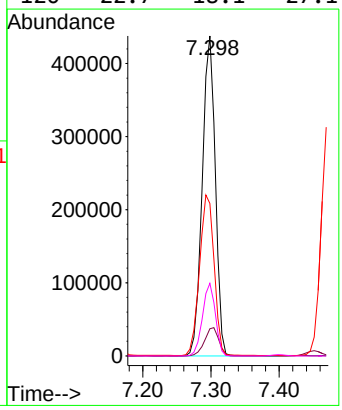
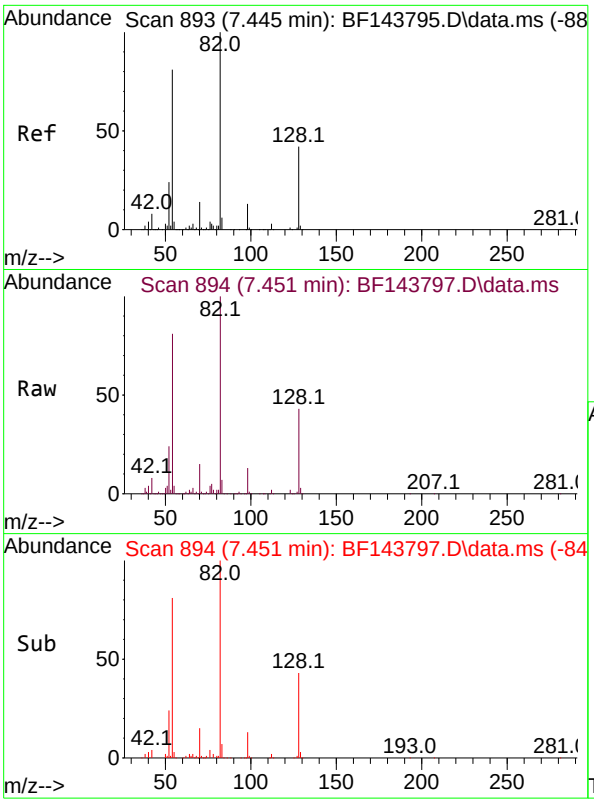


#22
Acetophenone
Concen: 55.128 ng
RT: 7.298 min Scan# 868
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:105 Resp: 584748

Ion	Ratio	Lower	Upper
105	100		
71	8.5	7.0	10.4
51	47.6	36.6	55.0
120	22.7	18.1	27.1

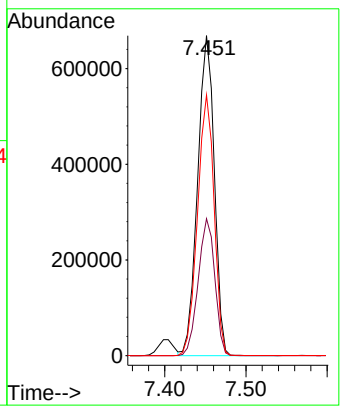




#23
Nitrobenzene-d5
Concen: 124.628 ng
RT: 7.451 min Scan# 89
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 82 Resp: 956391

Ion	Ratio	Lower	Upper
82	100		
128	42.8	33.3	49.9
54	81.4	64.2	96.4



Instrument :
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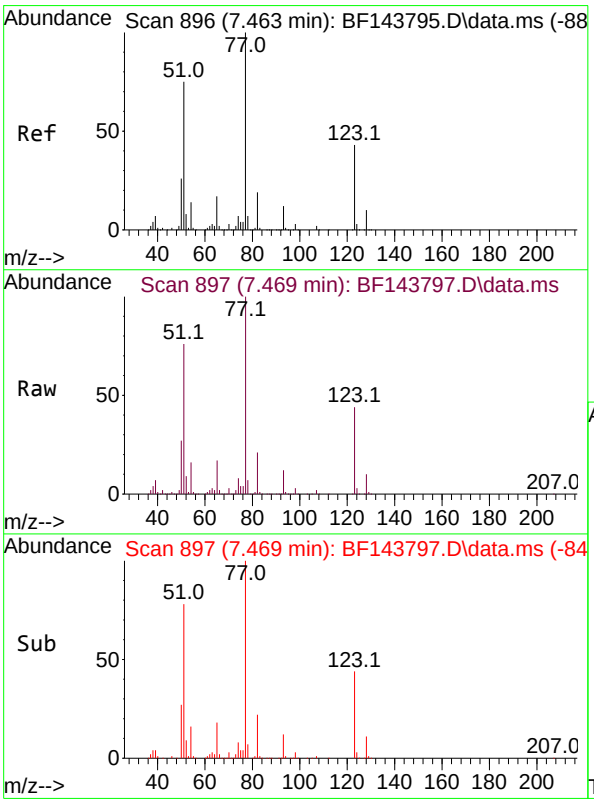
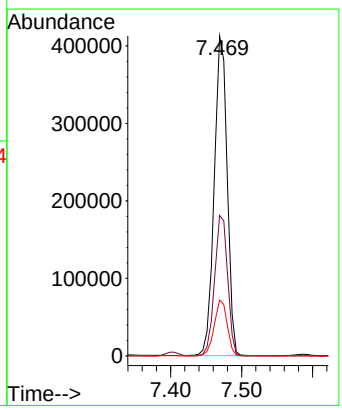
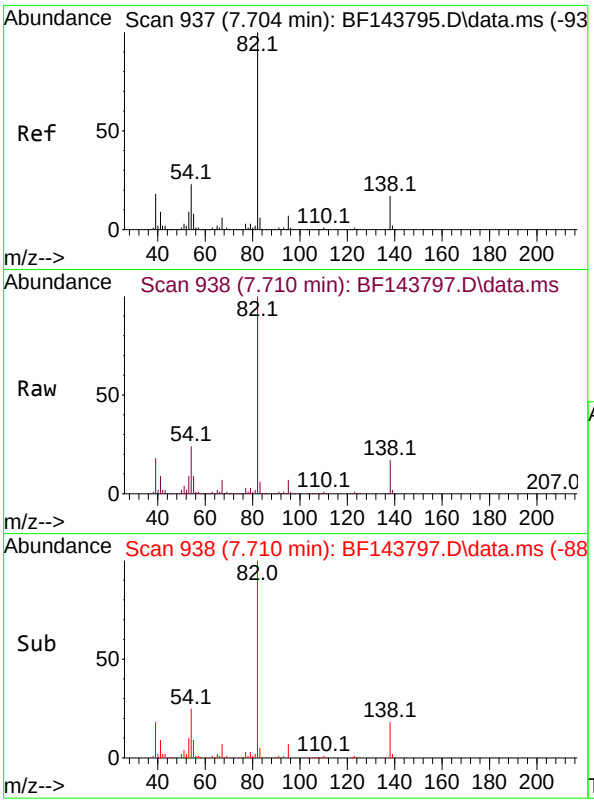


#24
Nitrobenzene
Concen: 59.844 ng
RT: 7.469 min Scan# 897
Delta R.T. -0.006 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 77 Resp: 523344

Ion	Ratio	Lower	Upper
77	100		
123	43.9	34.0	51.0
65	17.4	13.5	20.3

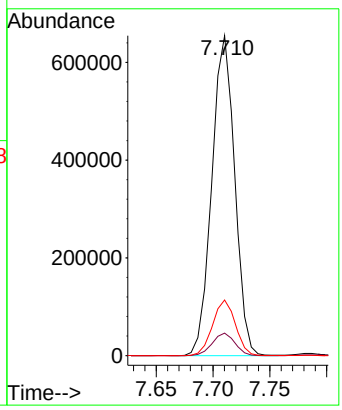




#25
Isophorone
Concen: 59.707 ng
RT: 7.710 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 82 Resp: 91795

Ion	Ratio	Lower	Upper
82	100		
95	7.0	5.4	8.2
138	17.4	13.7	20.5



Instrument :
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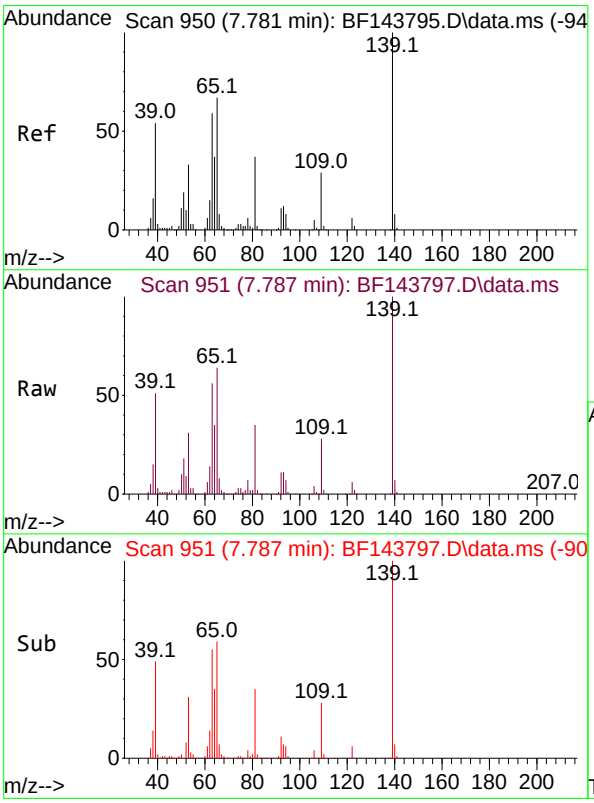
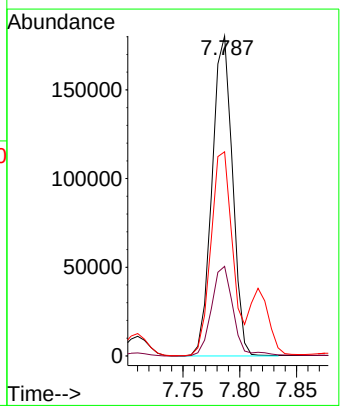
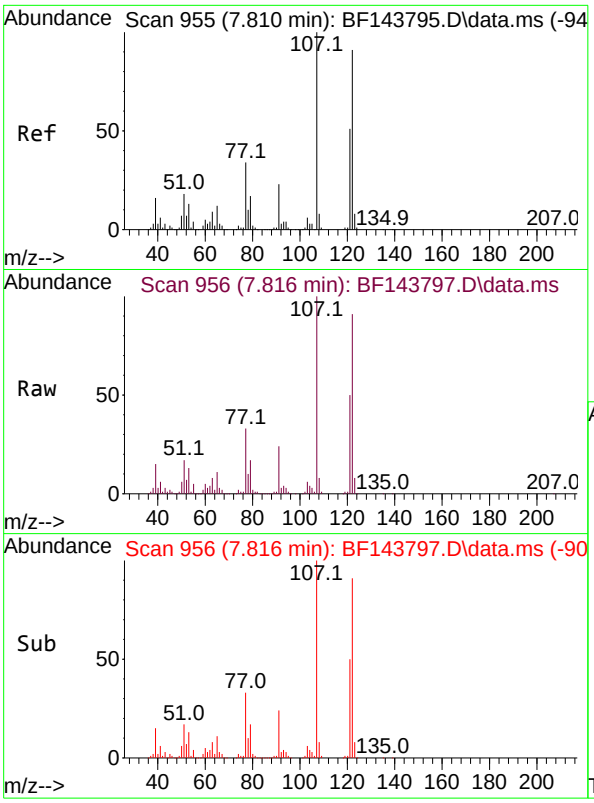


#26
2-Nitrophenol
Concen: 62.050 ng
RT: 7.787 min Scan# 951
Delta R.T. 0.001 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:139 Resp: 225802

Ion	Ratio	Lower	Upper
139	100		
109	28.0	23.3	34.9
65	63.8	53.8	80.6

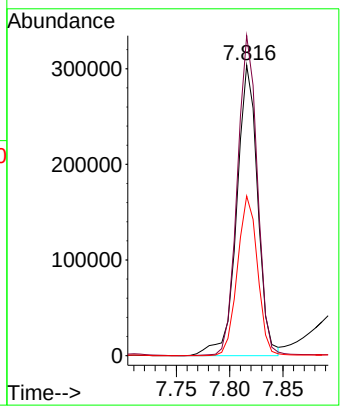




#27
2,4-Dimethylphenol
Concen: 60.209 ng
RT: 7.816 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:122 Resp: 41374

Ion	Ratio	Lower	Upper
122	100		
107	110.2	87.5	131.3
121	55.0	44.2	66.4



Instrument :
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ClientSampleId :
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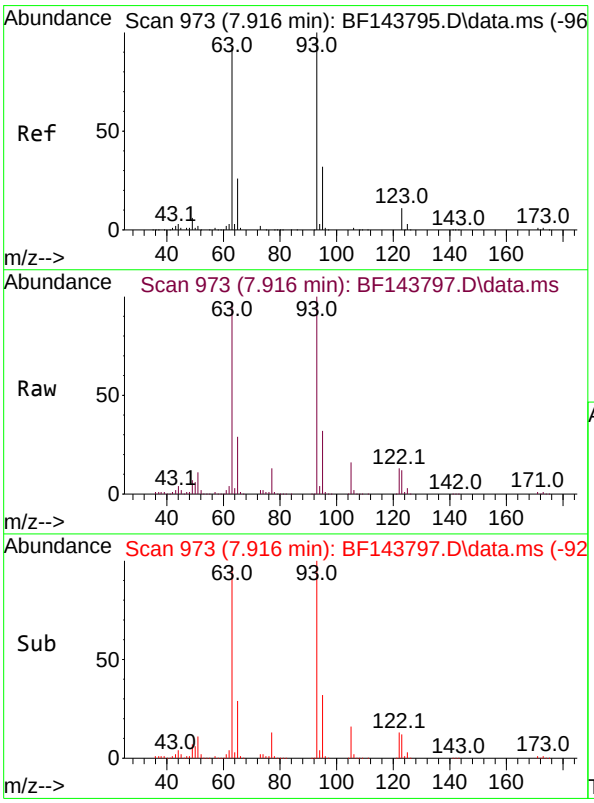
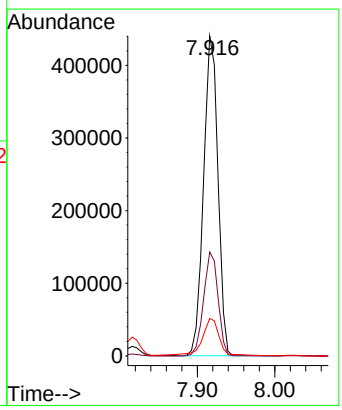
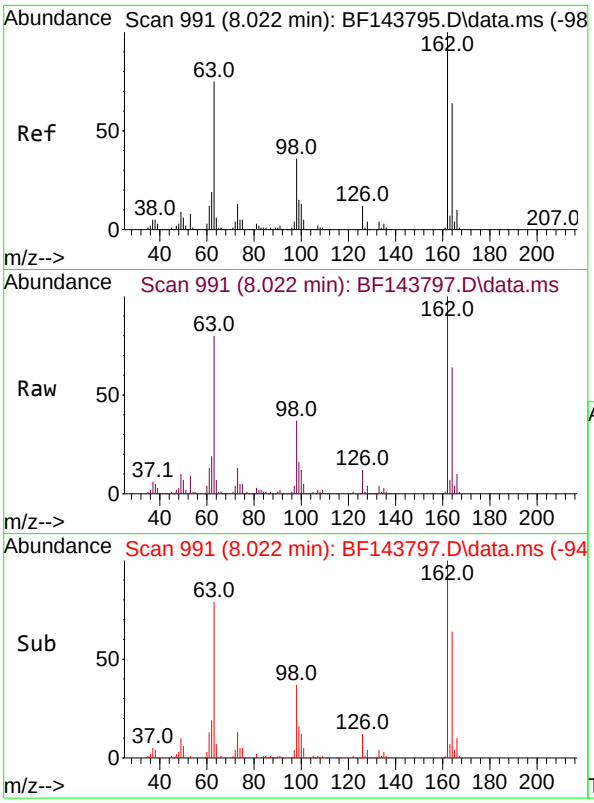


#28
bis(2-Chloroethoxy)methane
Concen: 56.813 ng
RT: 7.916 min Scan# 973
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 93 Resp: 567489

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.8	38.8
123	11.7	8.8	13.2





#29
2,4-Dichlorophenol
Concen: 59.550 ng
RT: 8.022 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:162 Resp: 40265

Ion	Ratio	Lower	Upper
162	100		
164	64.4	44.1	84.1
98	37.4	15.8	55.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

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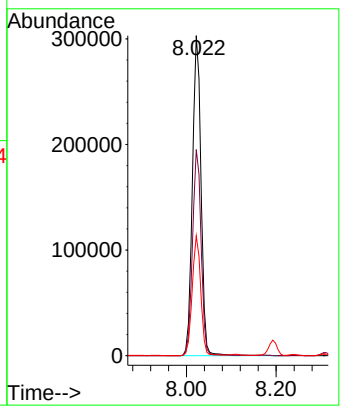
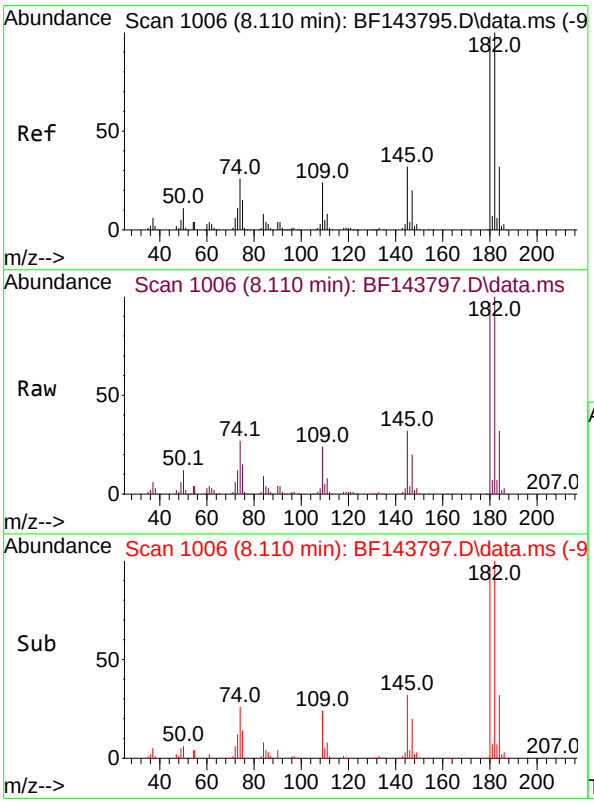
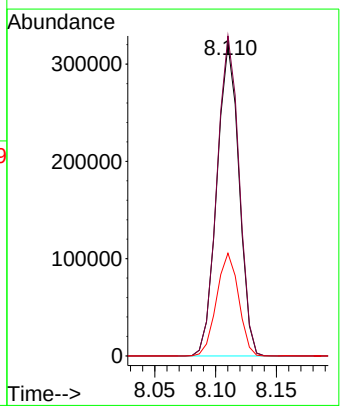


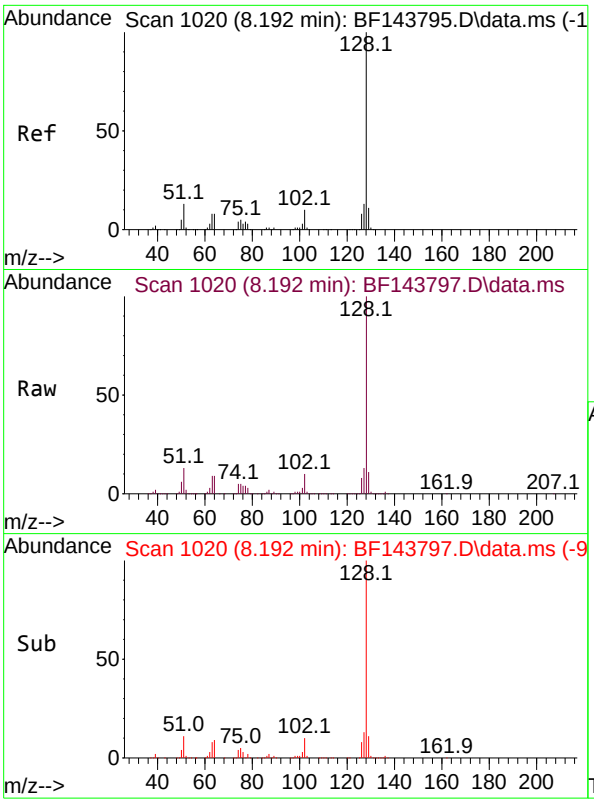


#30
1,2,4-Trichlorobenzene
Concen: 57.579 ng
RT: 8.110 min Scan# 1006
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:180 Resp: 404040

Ion	Ratio	Lower	Upper
180	100		
182	102.7	82.0	123.0
145	33.0	25.9	38.9

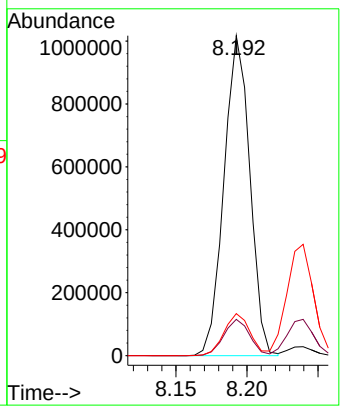




#31
Naphthalene
Concen: 55.678 ng
RT: 8.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:128 Resp: 128722

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.1	10.2	15.4



Instrument :
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ClientSampleId :
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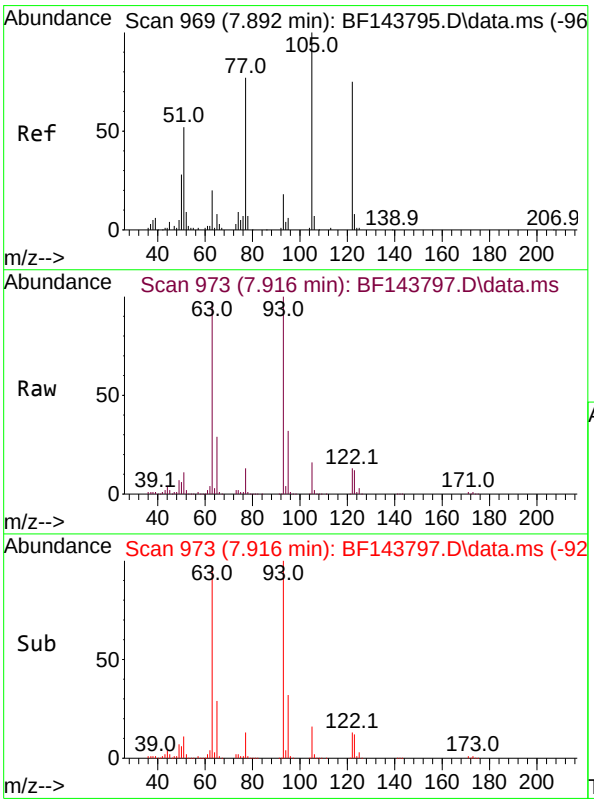
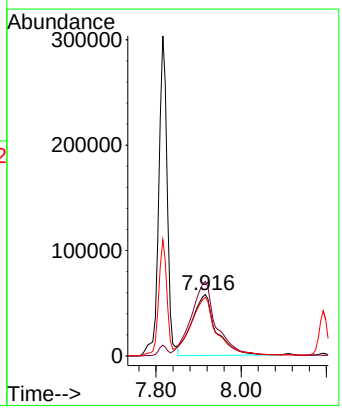
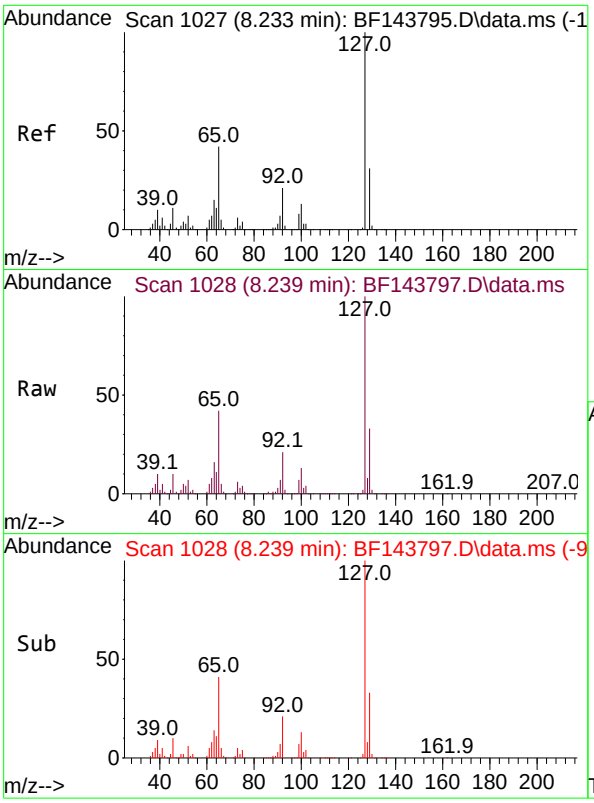


#32
Benzoic acid
Concen: 69.608 ng
RT: 7.916 min Scan# 973
Delta R.T. -0.006 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:122 Resp: 230784

Ion	Ratio	Lower	Upper
122	100		
105	121.3	103.7	143.7
77	95.3	78.8	118.8

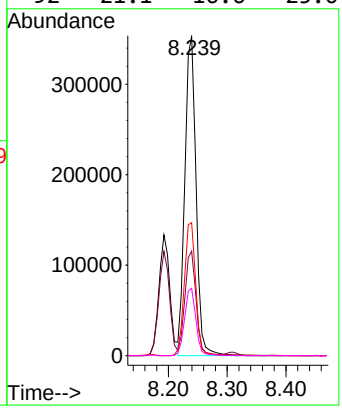




#33
4-Chloroaniline
Concen: 57.512 ng
RT: 8.239 min Scan# 10
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:127 Resp: 46725

Ion	Ratio	Lower	Upper
127	100		
129	32.6	25.4	38.2
65	41.5	33.4	50.2
92	21.1	16.6	25.0



Instrument :
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ClientSampleId :
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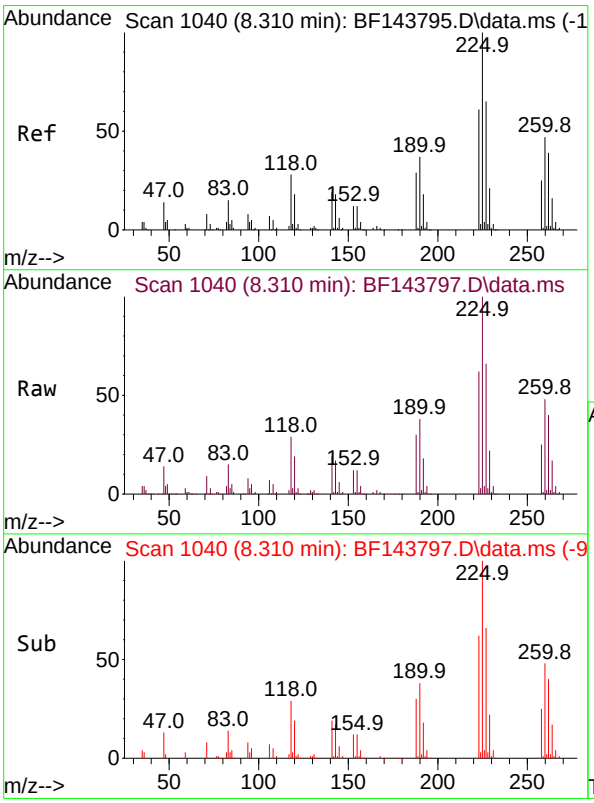
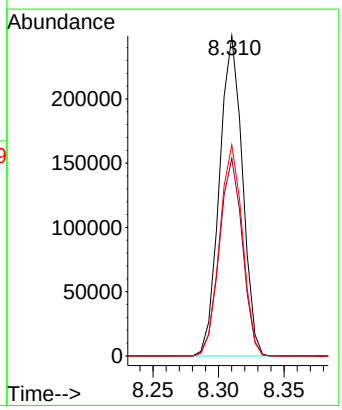
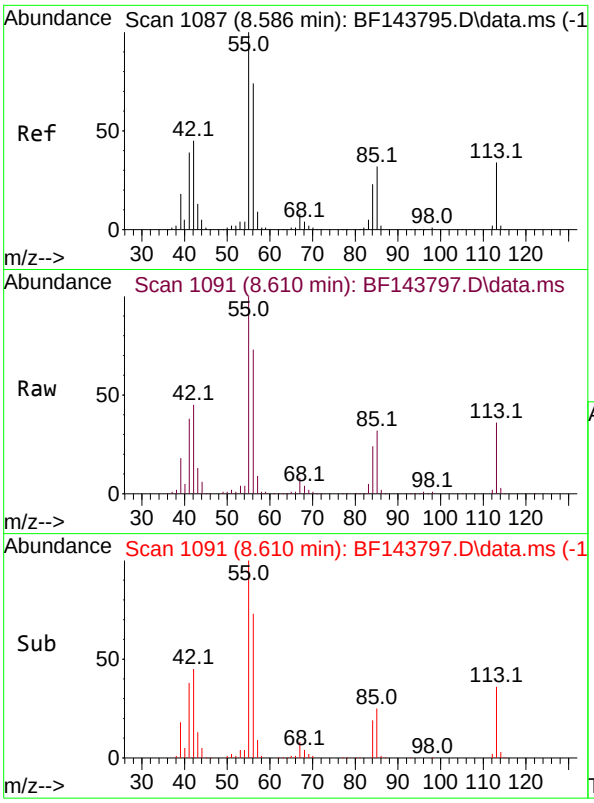


#34
Hexachlorobutadiene
Concen: 58.093 ng
RT: 8.310 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:225 Resp: 303886

Ion	Ratio	Lower	Upper
225	100		
223	61.7	48.6	72.8
227	65.9	51.9	77.9

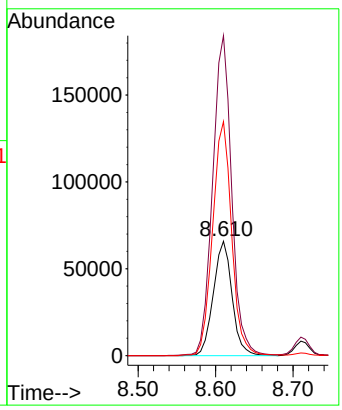




#35
Caprolactam
Concen: 63.887 ng
RT: 8.610 min Scan# 10
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:113 Resp: 11041

Ion	Ratio	Lower	Upper
113	100		
55	279.9	271.7	311.7
56	204.7	194.5	234.5



Instrument :
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ClientSampleId :
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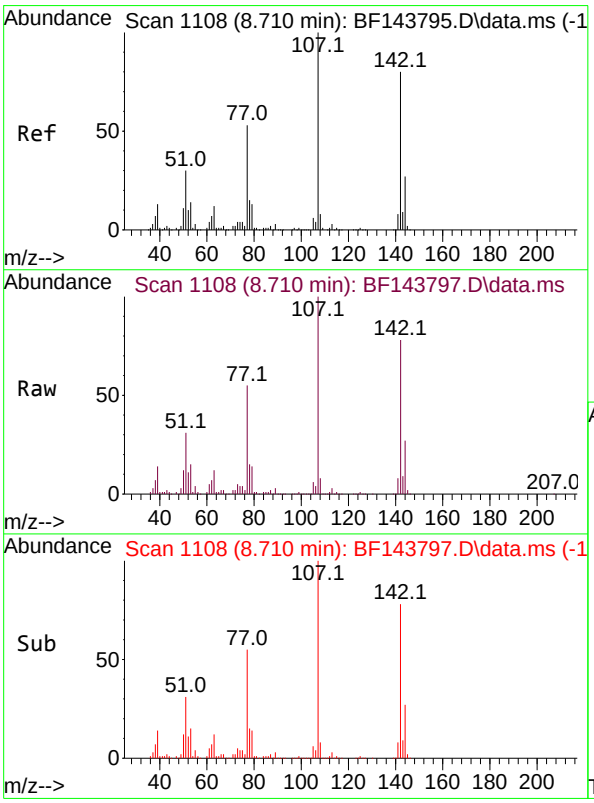
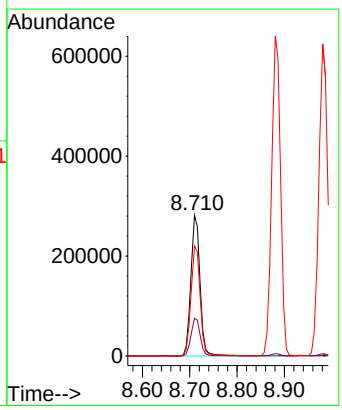
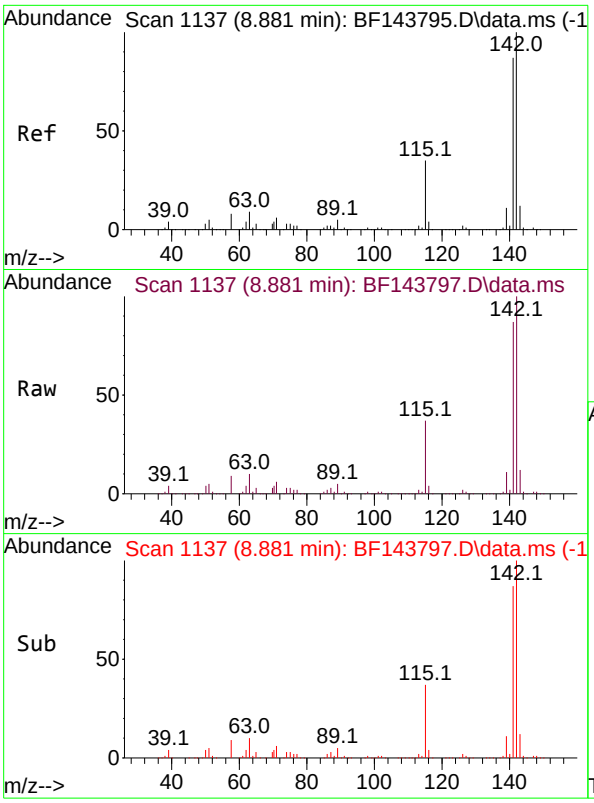


#36
4-Chloro-3-methylphenol
Concen: 59.859 ng
RT: 8.710 min Scan# 1108
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:107 Resp: 379597

Ion	Ratio	Lower	Upper
107	100		
144	26.7	21.8	32.8
142	78.1	63.6	95.4





#37
2-Methylnaphthalene
Concen: 56.174 ng
RT: 8.881 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:142 Resp: 828108

Ion	Ratio	Lower	Upper
142	100		
141	87.3	69.4	104.0

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

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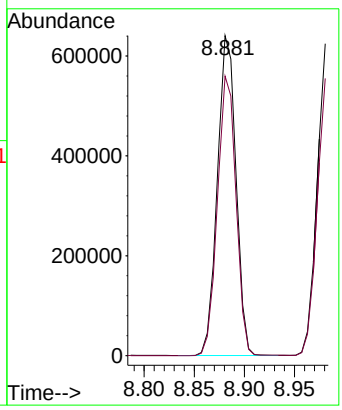
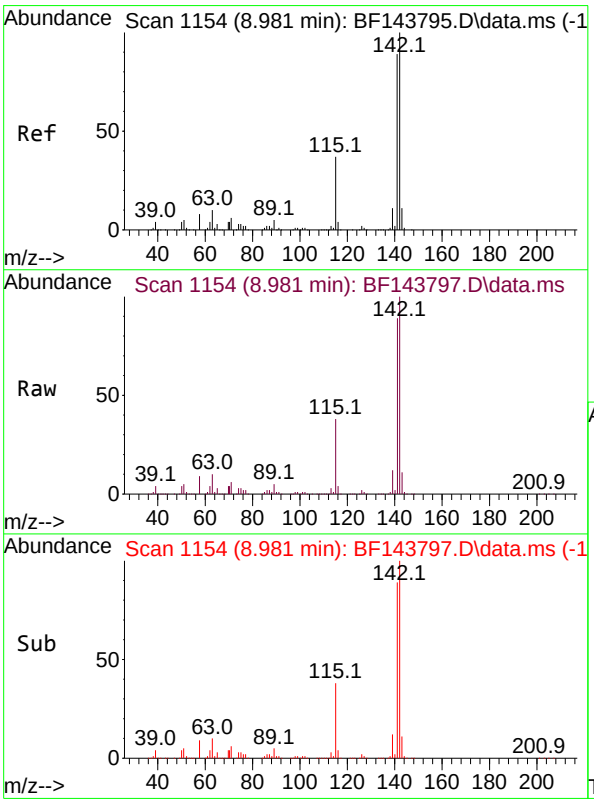
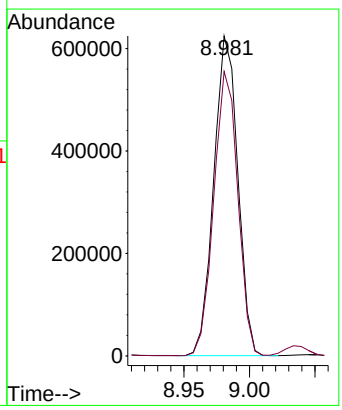


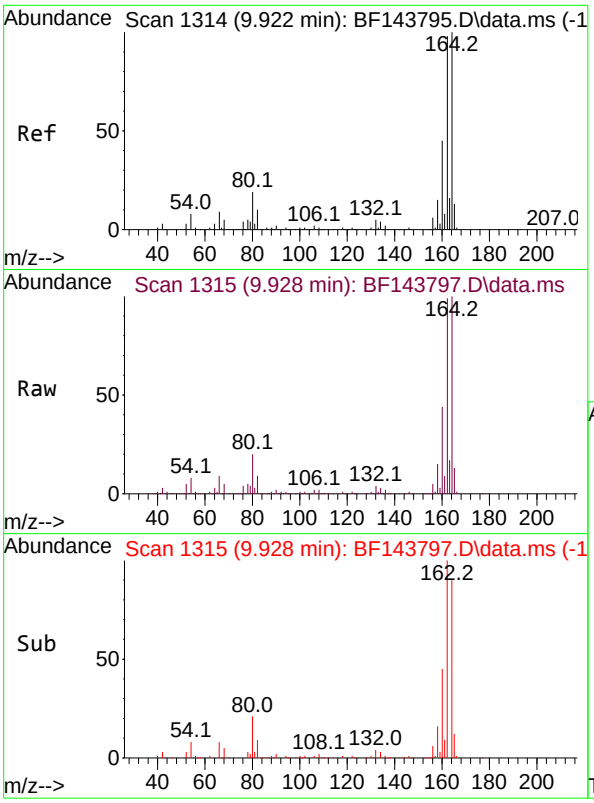


#38
1-Methylnaphthalene
Concen: 56.428 ng
RT: 8.981 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:142 Resp: 796215

Ion	Ratio	Lower	Upper
142	100		
141	88.9	71.1	106.7

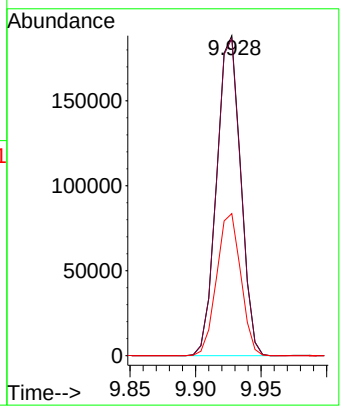




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:164 Resp: 24056

Ion	Ratio	Lower	Upper
164	100		
162	99.1	78.8	118.2
160	44.4	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

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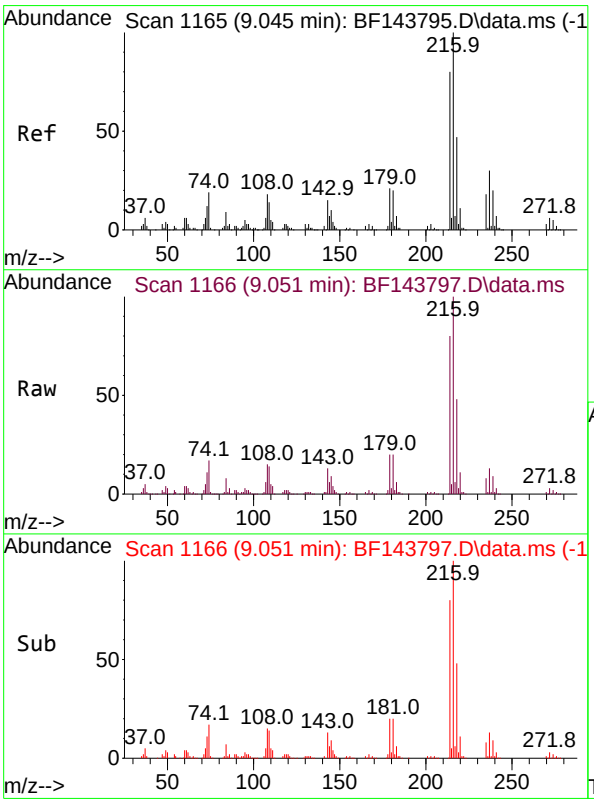
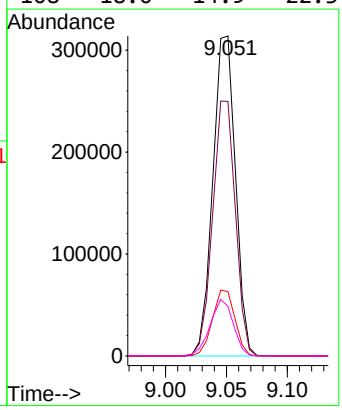
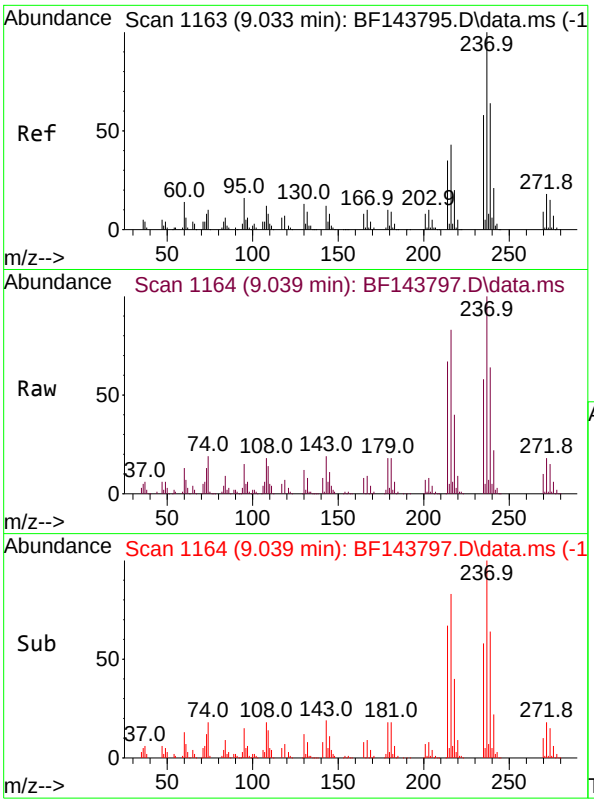


#40
1,2,4,5-Tetrachlorobenzene
Concen: 55.860 ng
RT: 9.051 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:216 Resp: 405534

Ion	Ratio	Lower	Upper
216	100		
214	80.0	63.7	95.5
179	20.4	16.5	24.7
108	18.0	14.9	22.3





#41
Hexachlorocyclopentadiene
Concen: 62.918 ng
RT: 9.039 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:237 Resp: 28948

Ion	Ratio	Lower	Upper
237	100		
235	57.6	38.1	78.1
272	18.5	0.0	37.9

Instrument :
BNA_F
ClientSampleId :
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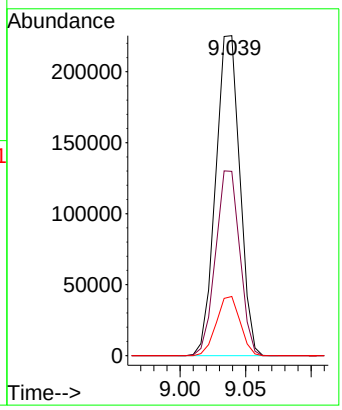
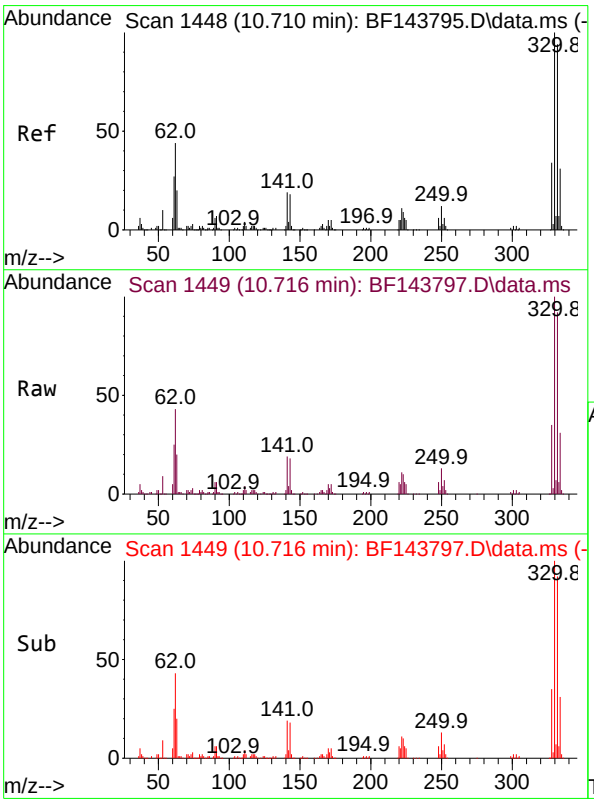
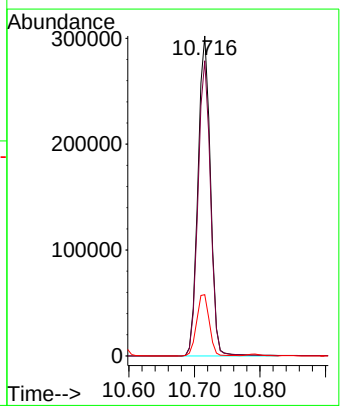


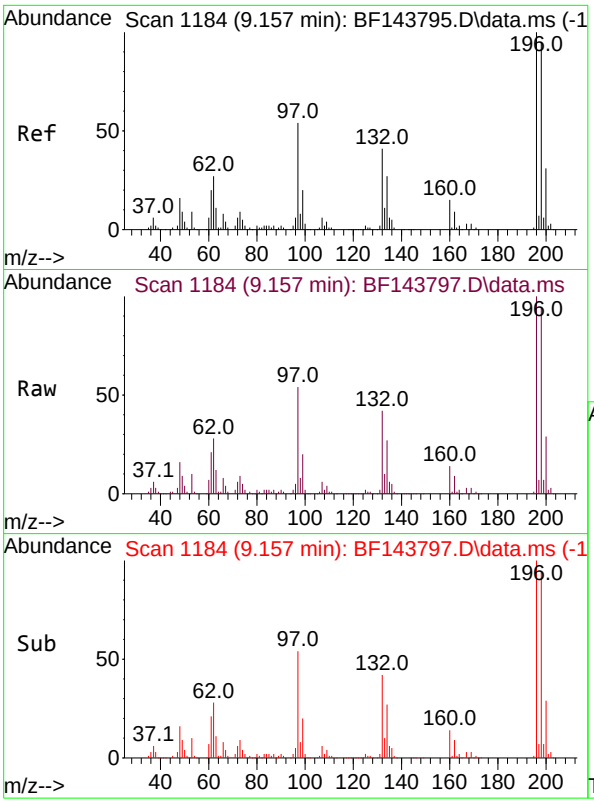


#42
2,4,6-Tribromophenol
Concen: 115.480 ng
RT: 10.716 min Scan# 1449
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:330 Resp: 396463

Ion	Ratio	Lower	Upper
330	100		
332	92.7	74.7	112.1
141	19.5	14.3	21.5

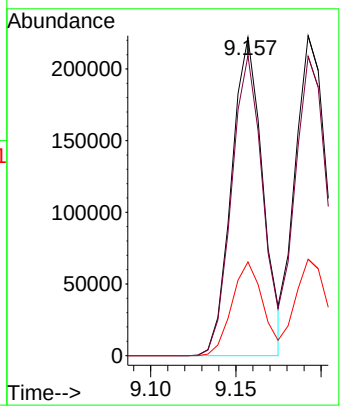




#43
2,4,6-Trichlorophenol
Concen: 62.219 ng
RT: 9.157 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:196 Resp: 28283

Ion	Ratio	Lower	Upper
196	100		
198	94.3	76.2	114.2
200	29.4	24.7	37.1



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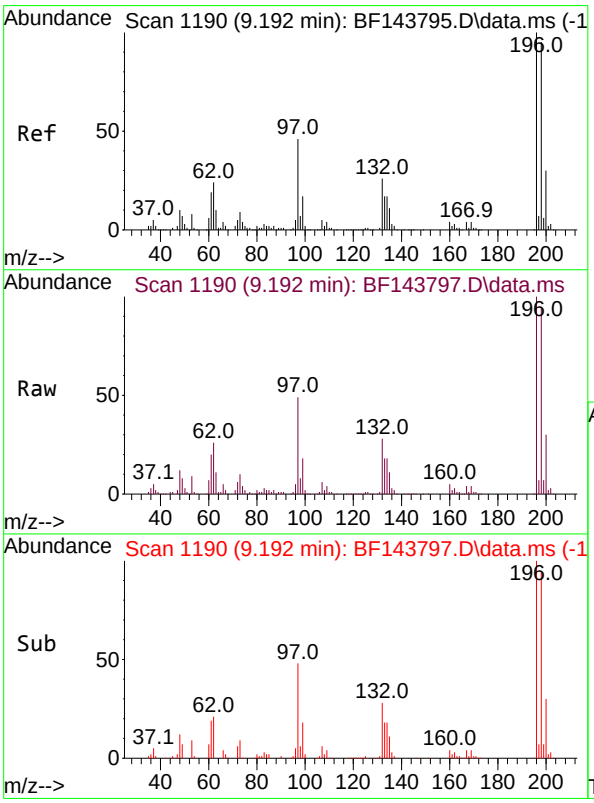
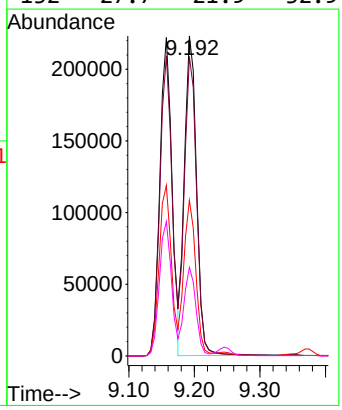
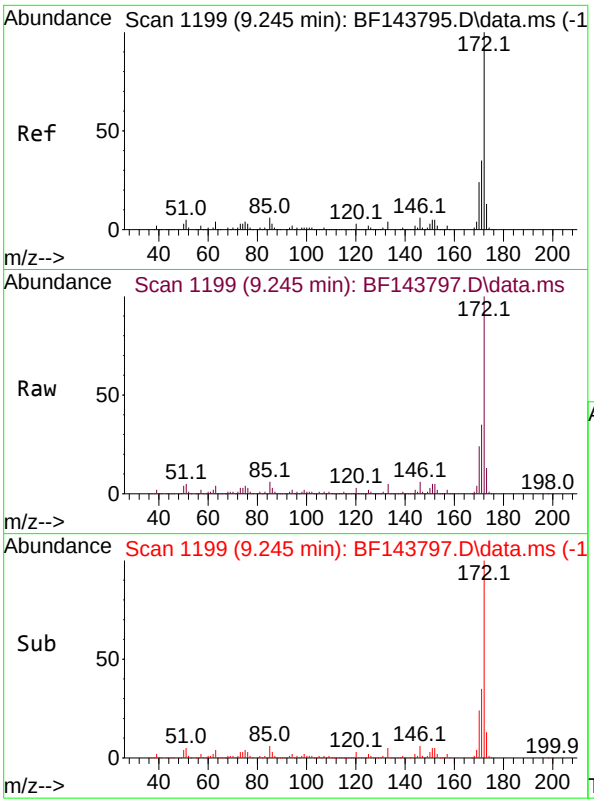


#44
2,4,5-Trichlorophenol
Concen: 60.982 ng
RT: 9.192 min Scan# 1190
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:196 Resp: 289963

Ion	Ratio	Lower	Upper
196	100		
198	93.6	75.9	113.9
97	48.6	38.3	57.5
132	27.7	21.9	32.9





#45
2-Fluorobiphenyl
Concen: 102.249 ng
RT: 9.245 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:172 Resp: 166450

Ion	Ratio	Lower	Upper
172	100		
171	34.9	27.9	41.9
170	24.0	19.1	28.7

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

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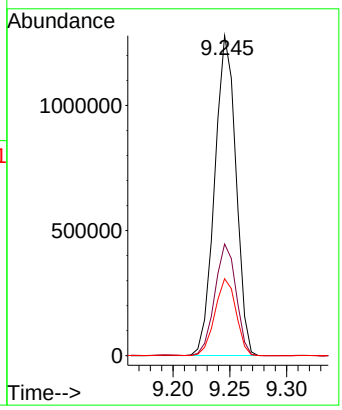
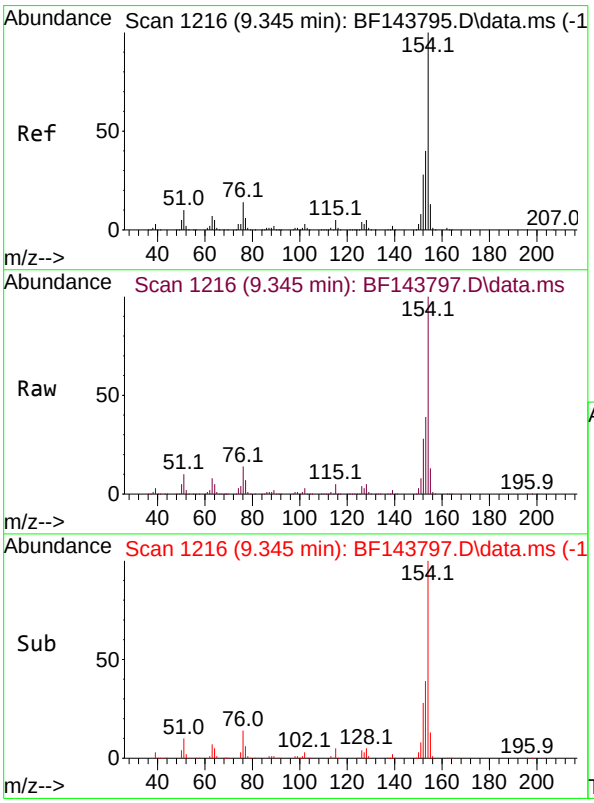
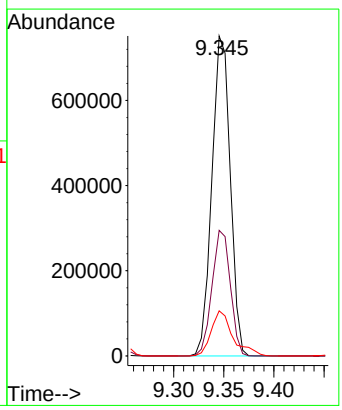


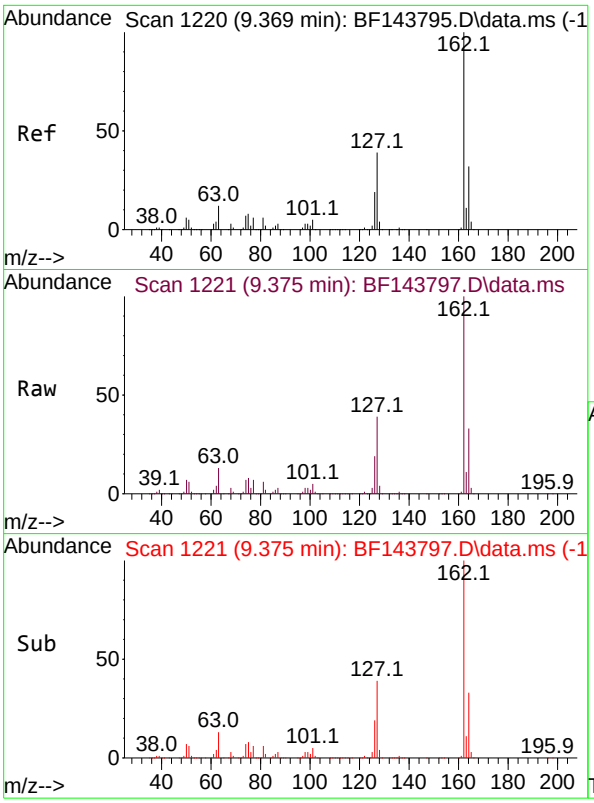


#46
1,1'-Biphenyl
Concen: 54.963 ng
RT: 9.345 min Scan# 1216
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:154 Resp: 957109

Ion	Ratio	Lower	Upper
154	100		
153	39.2	19.7	59.7
76	14.1	0.0	33.8

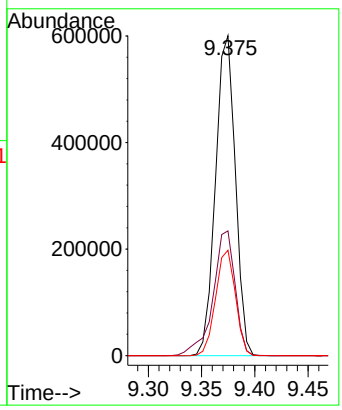




#47
2-Chloronaphthalene
Concen: 55.605 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:162 Resp: 77942

Ion	Ratio	Lower	Upper
162	100		
127	39.0	31.5	47.3
164	32.9	25.9	38.9



Instrument :
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ClientSampleId :
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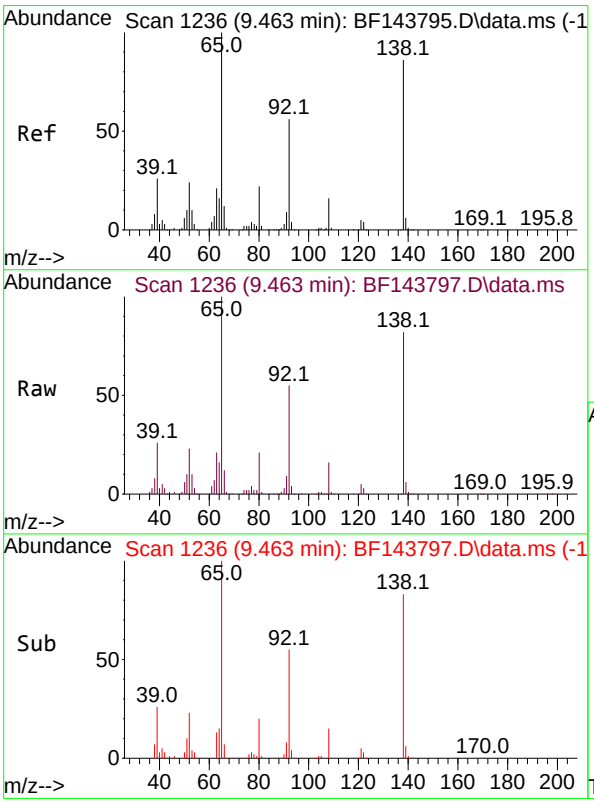
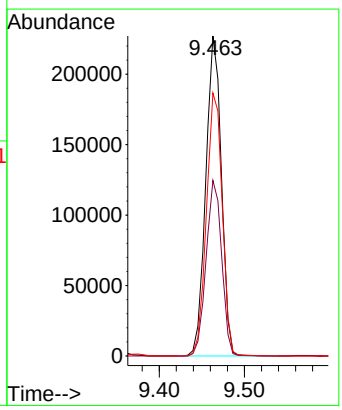
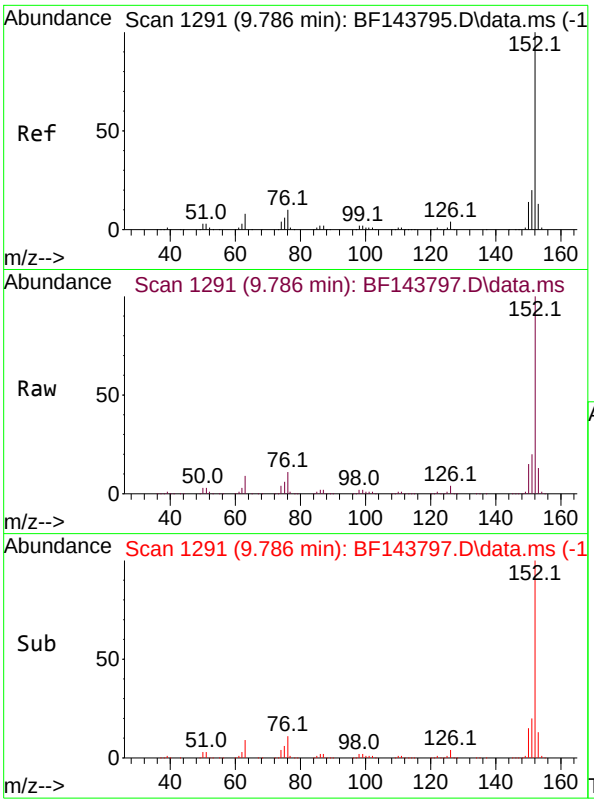


#48
2-Nitroaniline
Concen: 68.075 ng
RT: 9.463 min Scan# 1236
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 65 Resp: 288403

Ion	Ratio	Lower	Upper
65	100		
92	54.8	44.9	67.3
138	82.1	69.0	103.4

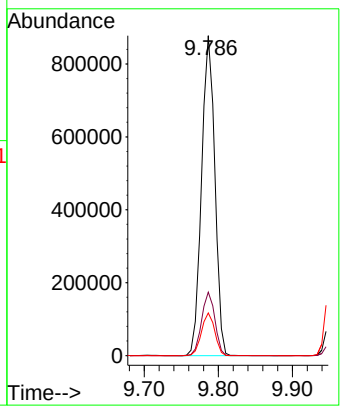




#49
Acenaphthylene
Concen: 56.581 ng
RT: 9.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:152 Resp: 109183

Ion	Ratio	Lower	Upper
152	100		
151	19.8	15.7	23.5
153	13.3	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
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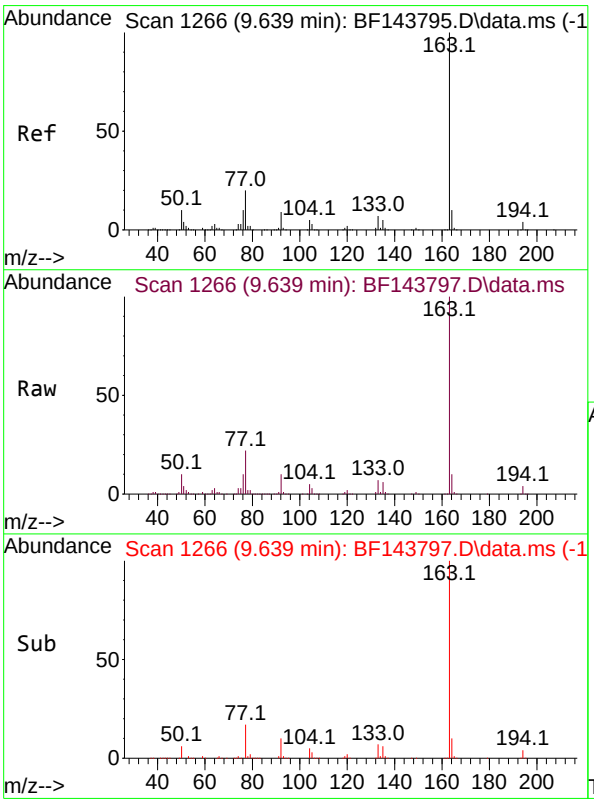
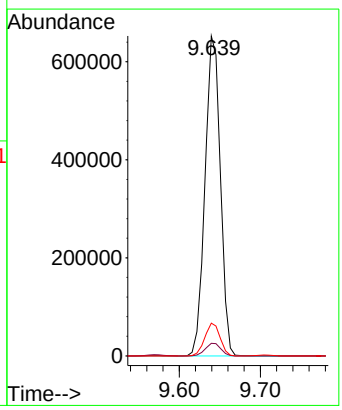
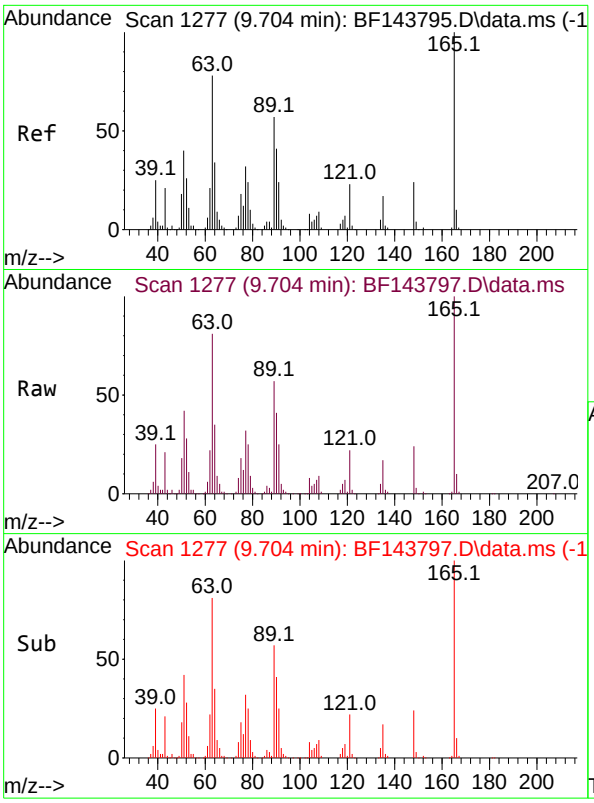


#50
Dimethylphthalate
Concen: 58.627 ng
RT: 9.639 min Scan# 1266
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:163 Resp: 859613

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	10.2	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 69.313 ng
RT: 9.704 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:165 Resp: 16697

Ion	Ratio	Lower	Upper
165	100		
63	81.3	62.6	94.0
89	57.1	45.2	67.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

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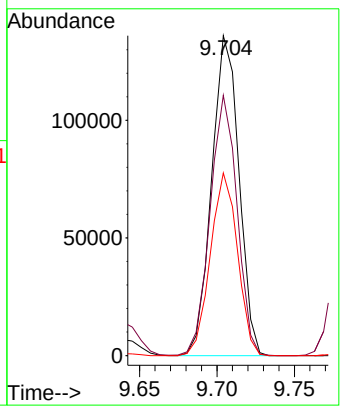
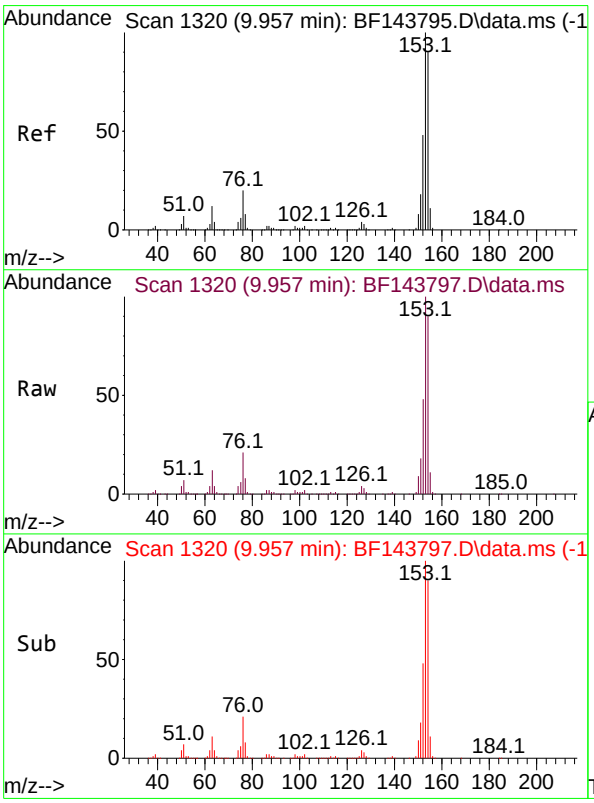
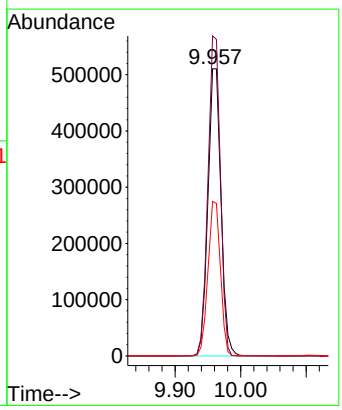


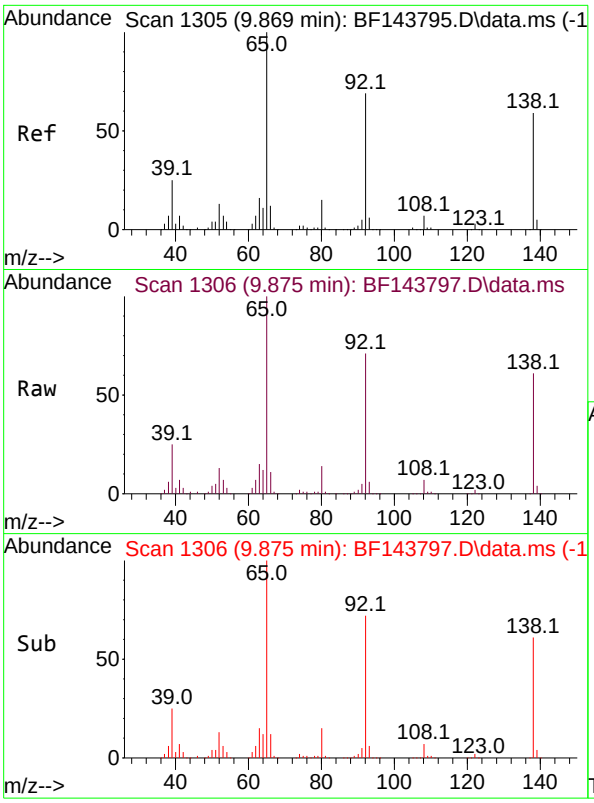


#52
Acenaphthene
Concen: 55.494 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:154 Resp: 704698

Ion	Ratio	Lower	Upper
154	100		
153	111.5	88.7	133.1
152	53.8	42.7	64.1





#53
3-Nitroaniline
Concen: 65.960 ng
RT: 9.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:138 Resp: 19260

Ion	Ratio	Lower	Upper
138	100		
108	11.6	9.9	14.9
92	117.3	93.5	140.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

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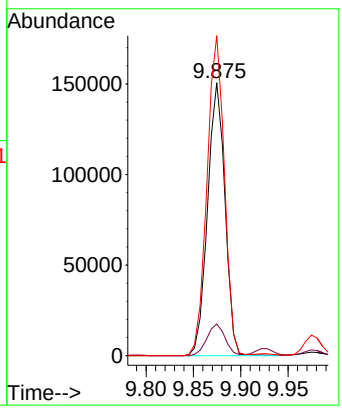
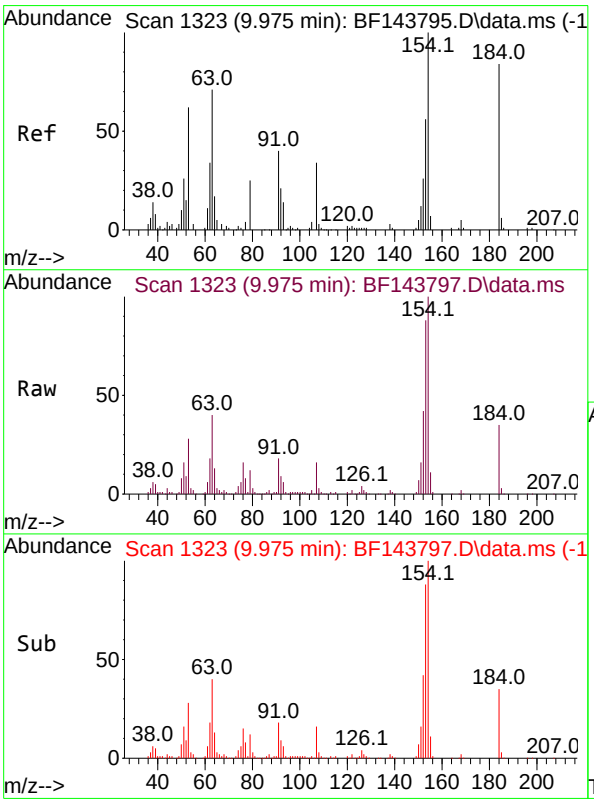
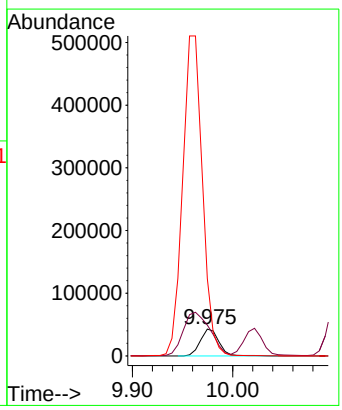


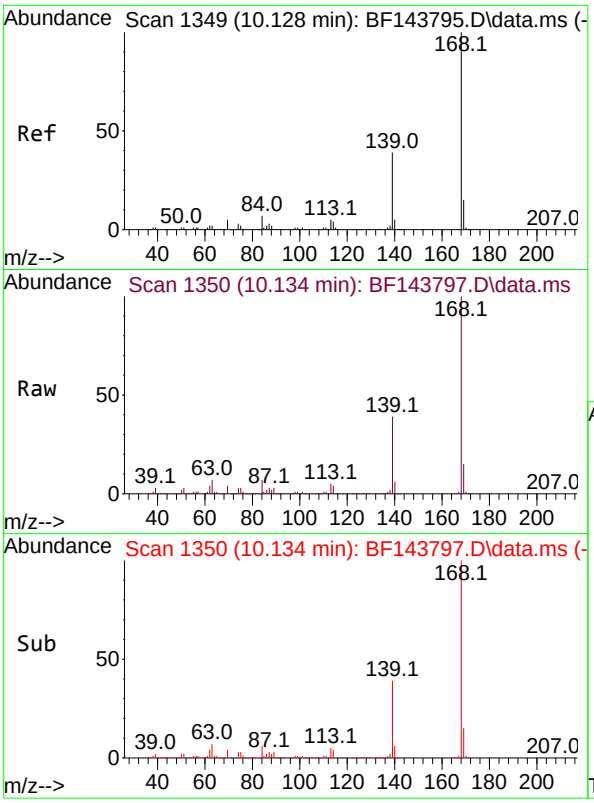


#54
2,4-Dinitrophenol
Concen: 61.464 ng
RT: 9.975 min Scan# 1323
Delta R.T. -0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:184 Resp: 54678

Ion	Ratio	Lower	Upper
184	100		
63	114.9	84.6	127.0
154	288.7	199.3	298.9

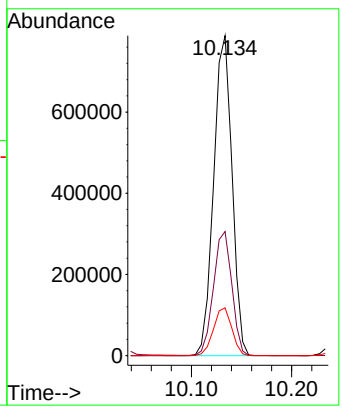




#55
Dibenzofuran
Concen: 55.941 ng
RT: 10.134 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:168 Resp: 100452

Ion	Ratio	Lower	Upper
168	100		
139	38.8	31.0	46.6
169	14.9	11.9	17.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

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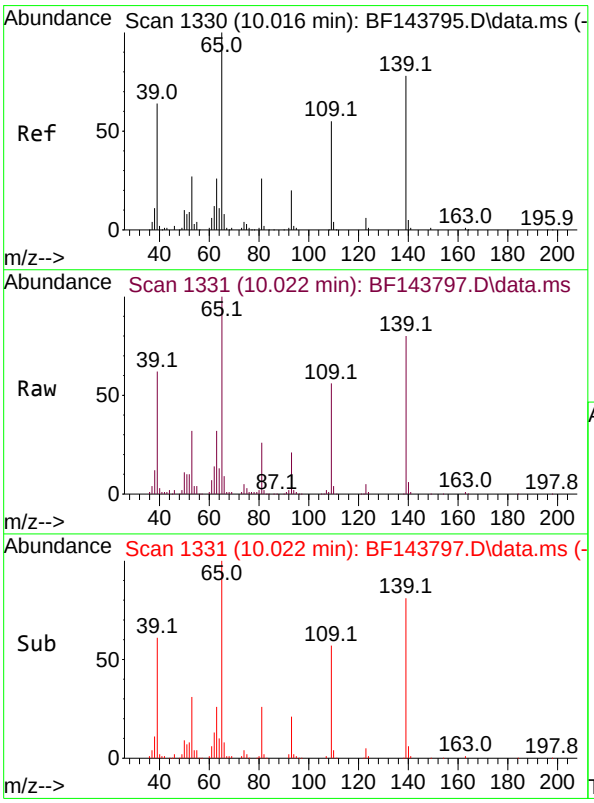
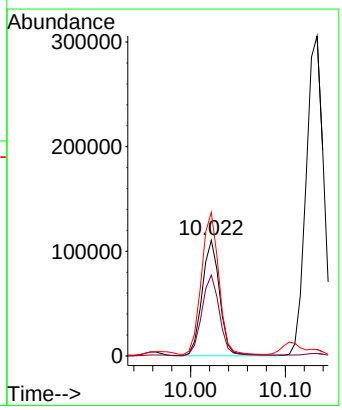
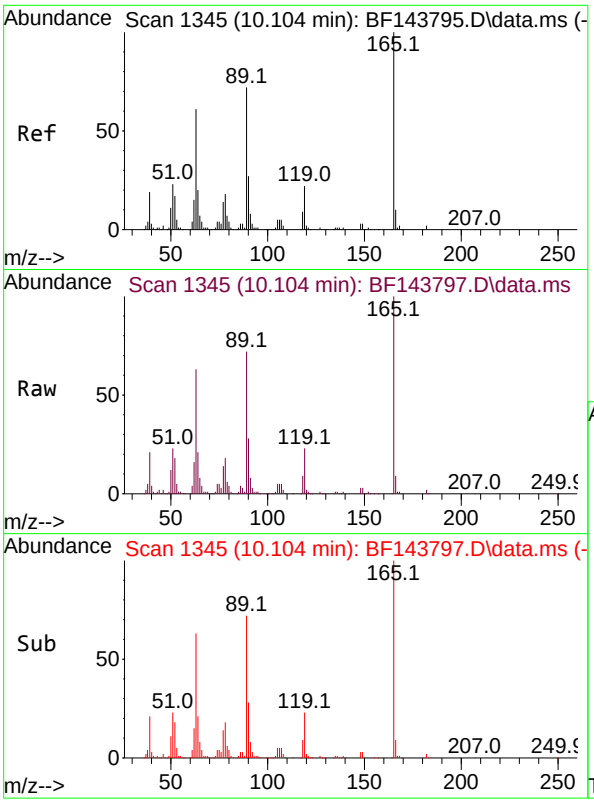


#56
4-Nitrophenol
Concen: 60.557 ng
RT: 10.022 min Scan# 1331
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:139 Resp: 142495

Ion	Ratio	Lower	Upper
139	100		
109	69.9	50.2	90.2
65	124.2	109.2	149.2

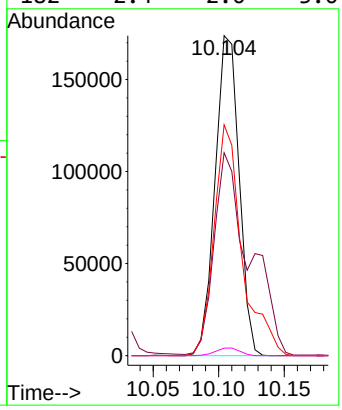




#57
2,4-Dinitrotoluene
Concen: 61.297 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:165 Resp: 22226

Ion	Ratio	Lower	Upper
165	100		
63	63.4	48.9	73.3
89	72.1	57.5	86.3
182	2.4	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
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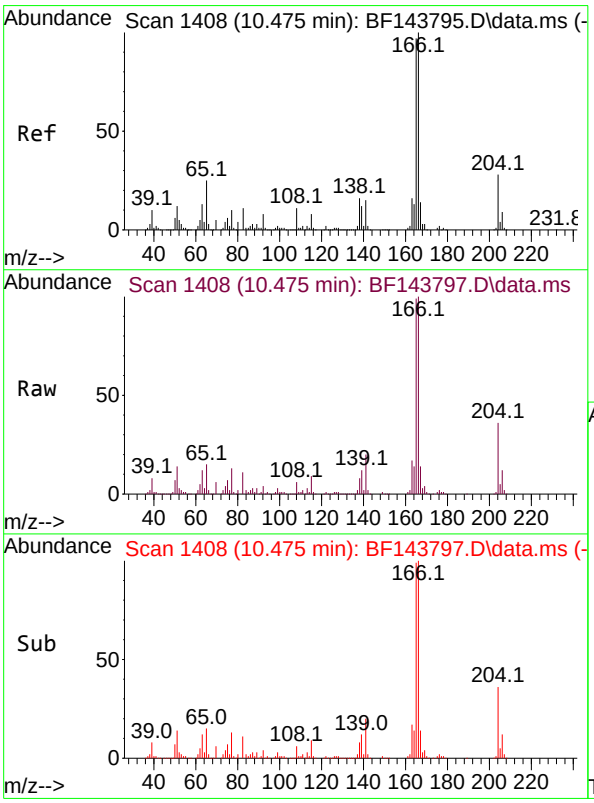
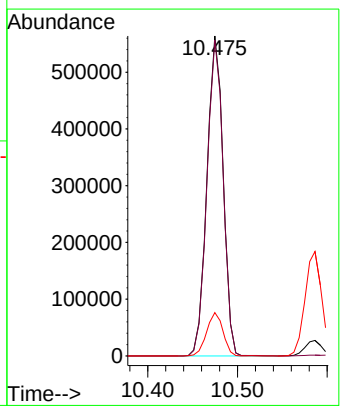
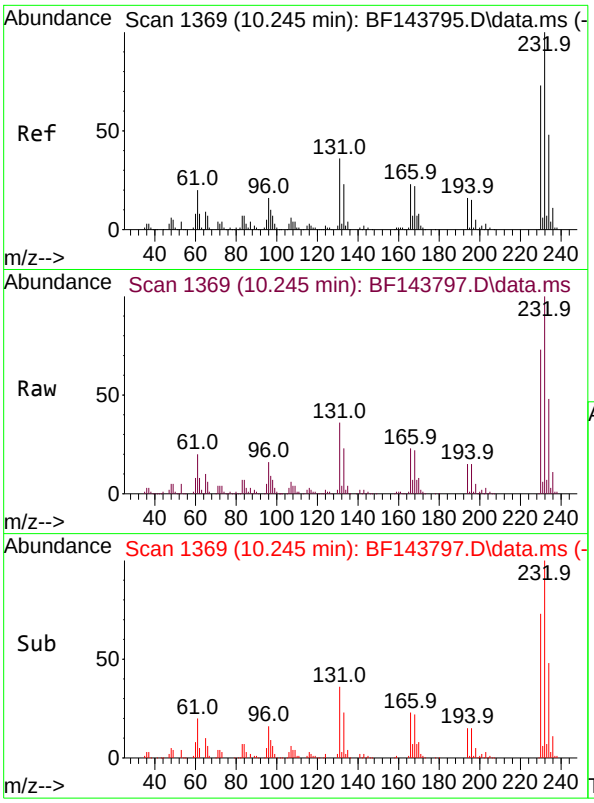


#58
Fluorene
Concen: 53.330 ng
RT: 10.475 min Scan# 1408
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:166 Resp: 711929

Ion	Ratio	Lower	Upper
166	100		
165	98.7	78.0	117.0
167	13.5	10.9	16.3

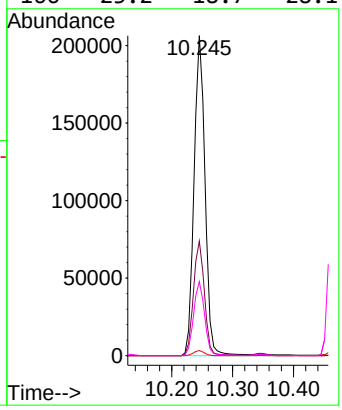




#59
2,3,4,6-Tetrachlorophenol
Concen: 63.904 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:232 Resp: 26030

Ion	Ratio	Lower	Upper
232	100		
131	35.6	29.4	44.2
130	1.5	1.3	1.9
166	23.2	18.7	28.1



Instrument :
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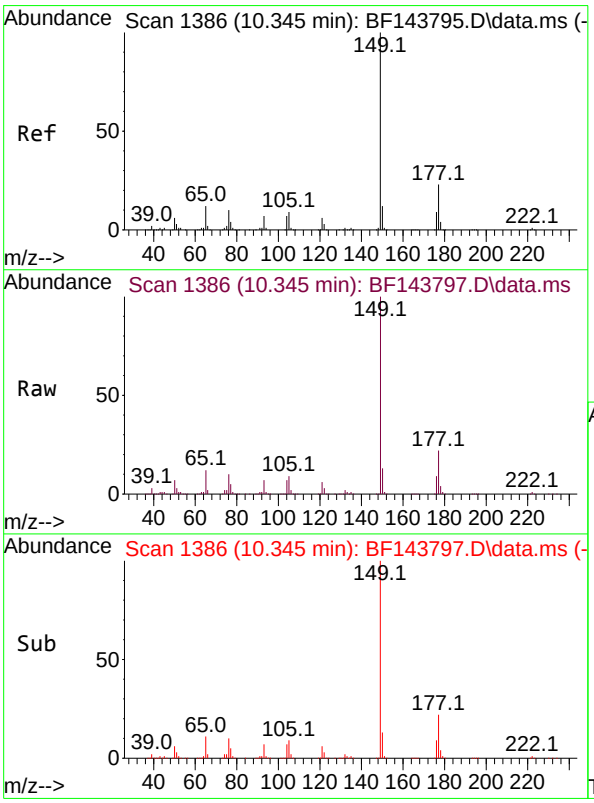
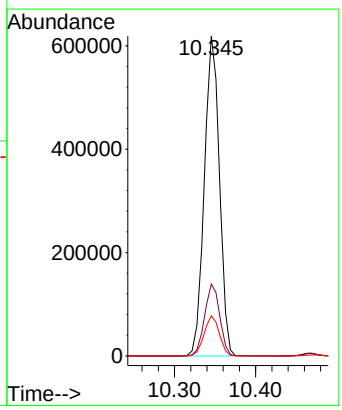
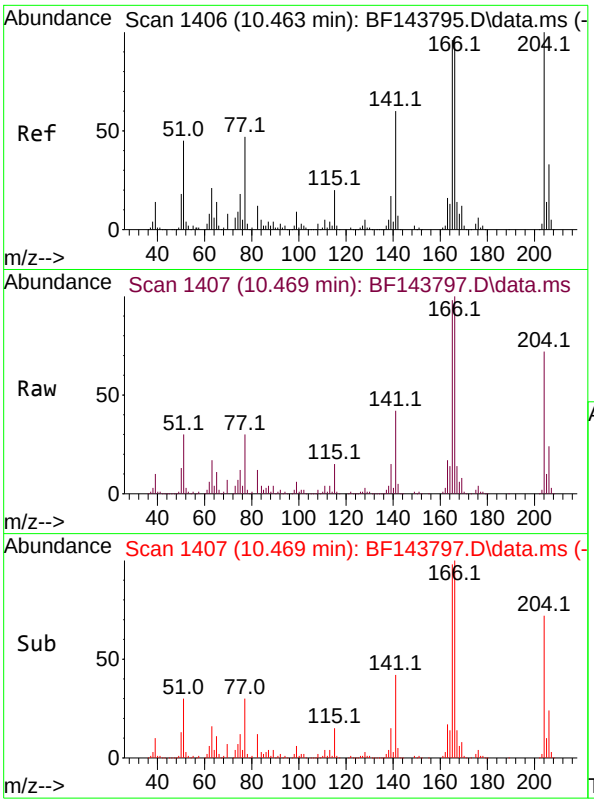


#60
Diethylphthalate
Concen: 58.305 ng
RT: 10.345 min Scan# 1386
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:149 Resp: 800261

Ion	Ratio	Lower	Upper
149	100		
177	22.4	18.1	27.1
150	12.5	9.7	14.5





#61
4-Chlorophenyl-phenylether
Concen: 55.593 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion:204 Resp: 378141

Ion	Ratio	Lower	Upper
204	100		
206	33.5	26.7	40.1
141	57.7	48.2	72.2

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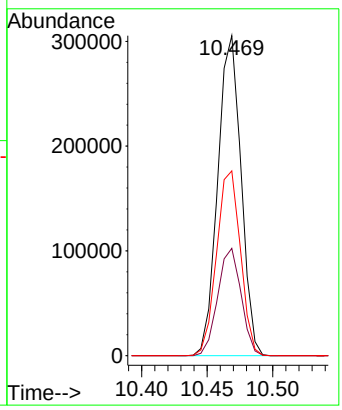
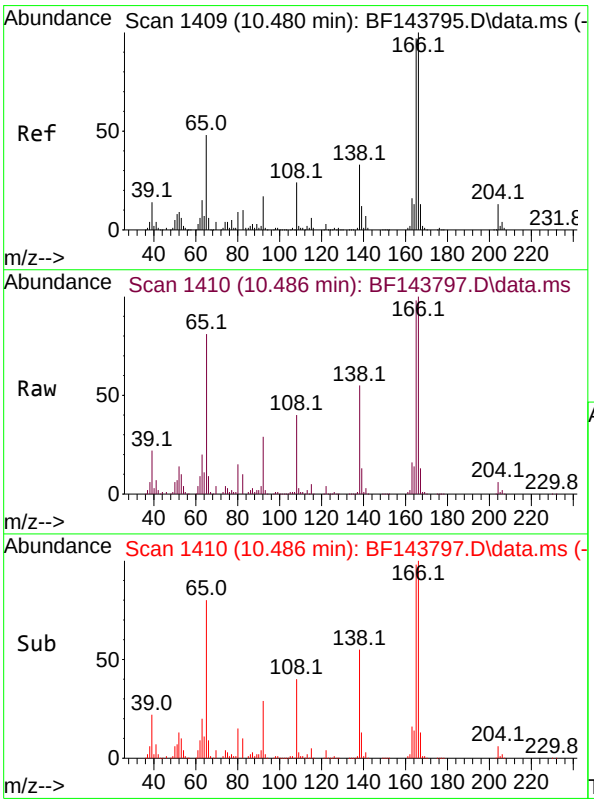
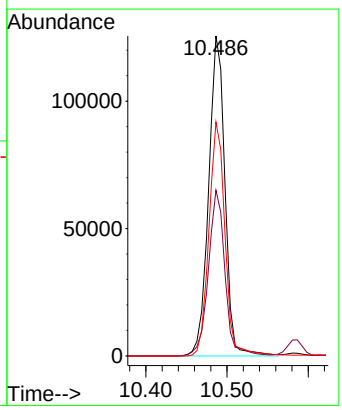


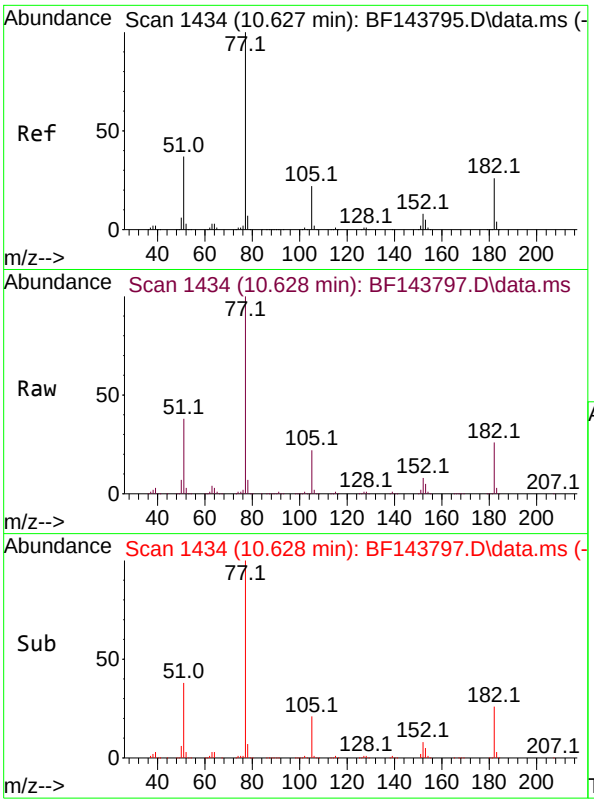


#62
4-Nitroaniline
Concen: 63.907 ng
RT: 10.486 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:138 Resp: 175465

Ion	Ratio	Lower	Upper
138	100		
92	51.8	31.5	71.5
108	73.1	51.9	91.9

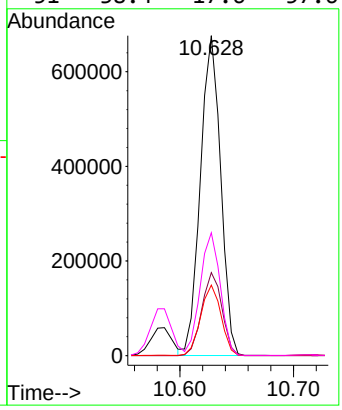




#63
Azobenzene
Concen: 58.022 ng
RT: 10.628 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion: 77 Resp: 83930

Ion	Ratio	Lower	Upper
77	100		
182	25.9	5.9	45.9
105	22.0	2.3	42.3
51	38.4	17.6	57.6



Instrument :
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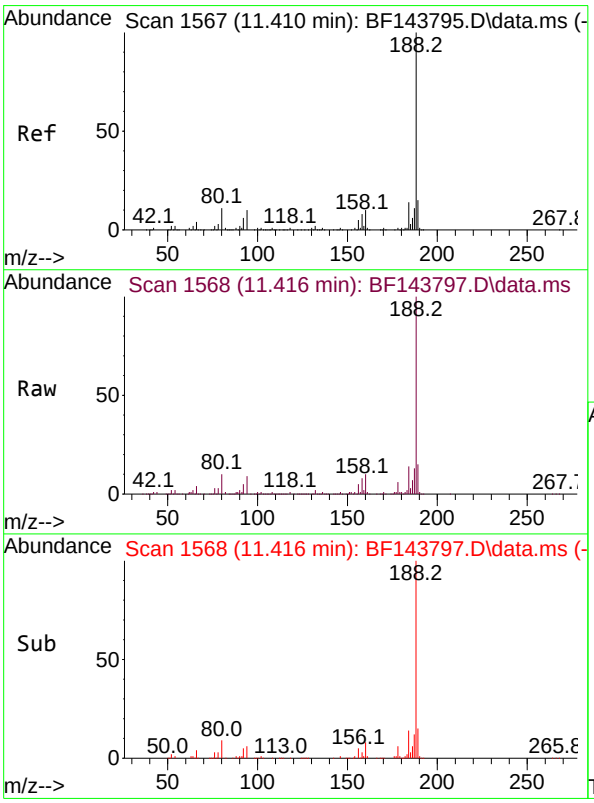
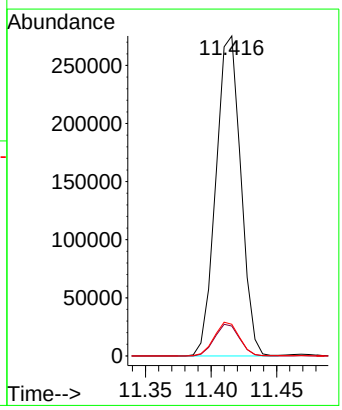
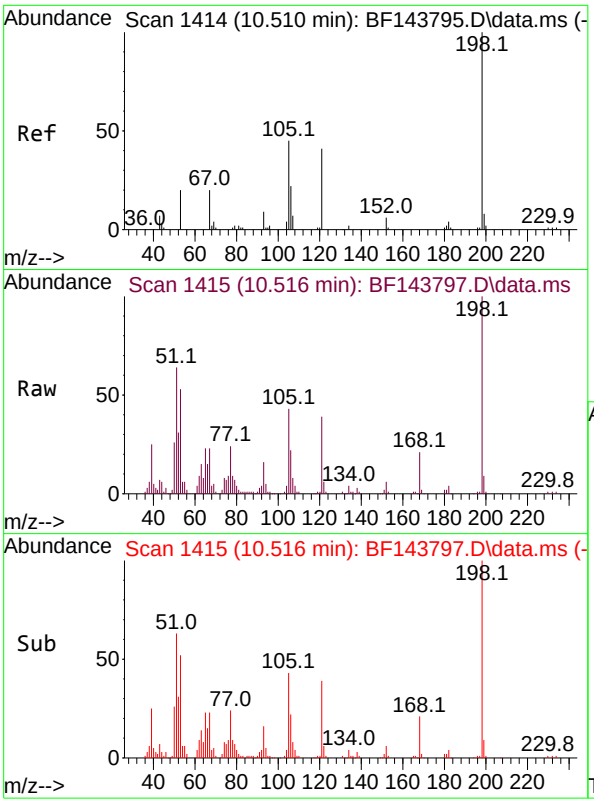


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:188 Resp: 364411

Ion	Ratio	Lower	Upper
188	100		
94	9.3	8.2	12.2
80	9.9	8.6	12.8





#65
4,6-Dinitro-2-methylphenol
Concen: 62.624 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:198 Resp: 9086

Ion	Ratio	Lower	Upper
198	100		
51	63.9	52.0	92.0
105	42.8	27.5	67.5

Instrument :
BNA_F
ClientSampleId :
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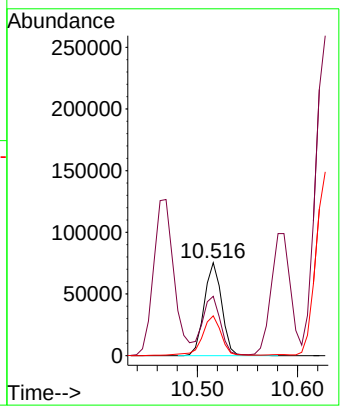
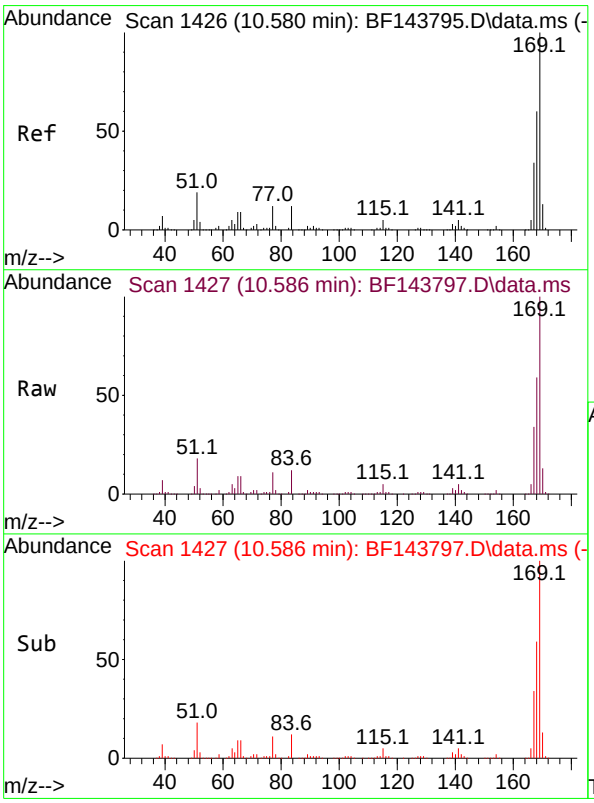
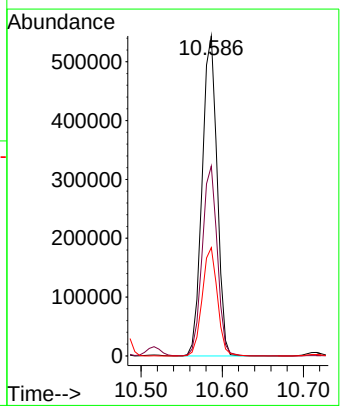


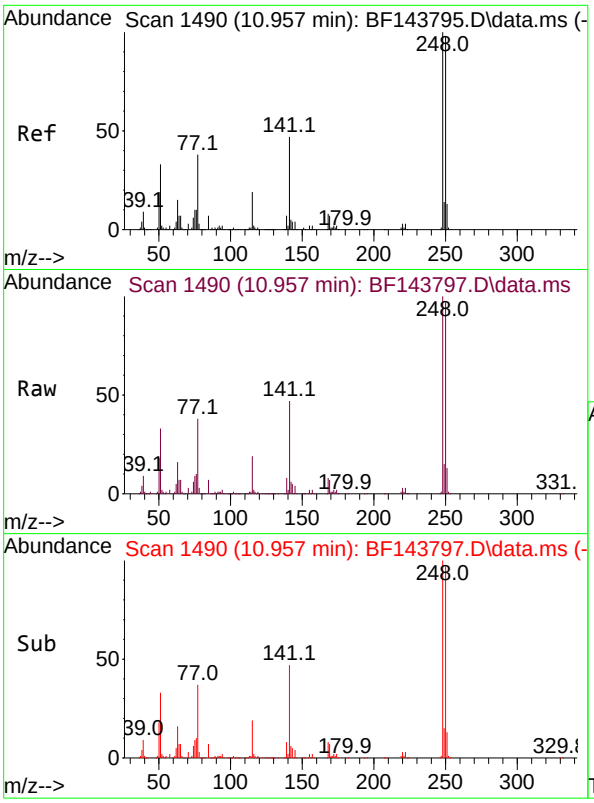


#66
n-Nitrosodiphenylamine
Concen: 58.067 ng
RT: 10.586 min Scan# 1427
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:169 Resp: 695896

Ion	Ratio	Lower	Upper
169	100		
168	59.3	47.9	71.9
167	33.8	27.0	40.6

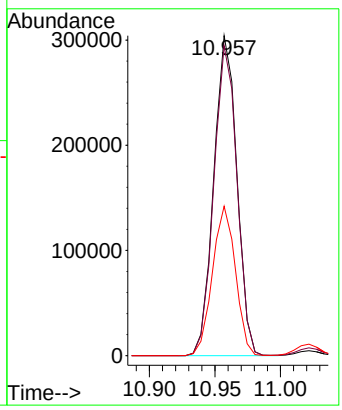




#67
4-Bromophenyl-phenylether
Concen: 60.132 ng
RT: 10.957 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:248 Resp: 37343

Ion	Ratio	Lower	Upper
248	100		
250	96.8	78.7	118.1
141	46.7	37.9	56.9



Instrument :
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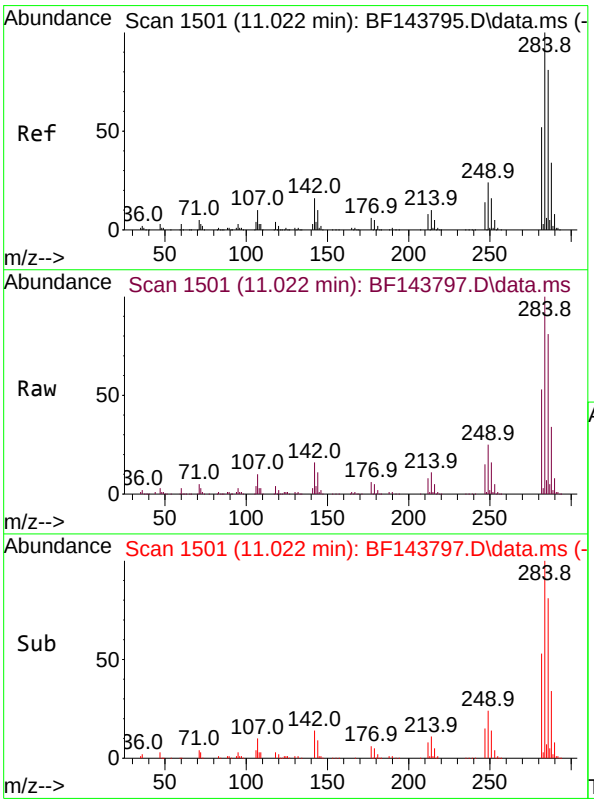
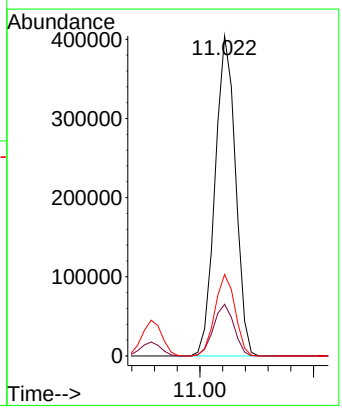
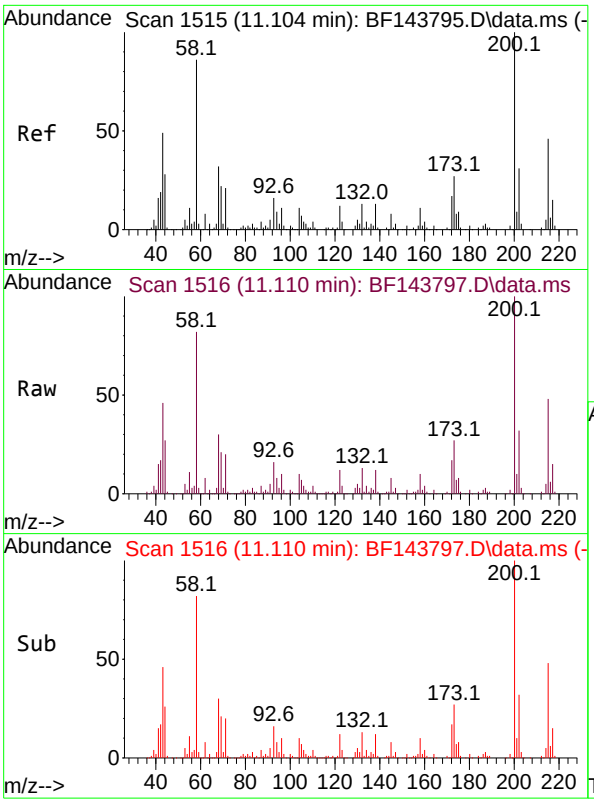


#68
Hexachlorobenzene
Concen: 58.941 ng
RT: 11.022 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:284 Resp: 504432

Ion	Ratio	Lower	Upper
284	100		
142	16.2	13.1	19.7
249	25.4	19.5	29.3

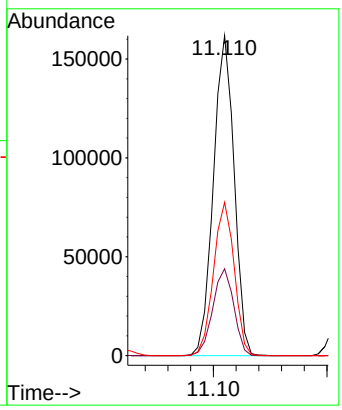




#69
Atrazine
Concen: 58.963 ng
RT: 11.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:200 Resp: 20462

Ion	Ratio	Lower	Upper
200	100		
173	27.2	7.2	47.2
215	47.9	26.0	66.0



Instrument :
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ClientSampleId :
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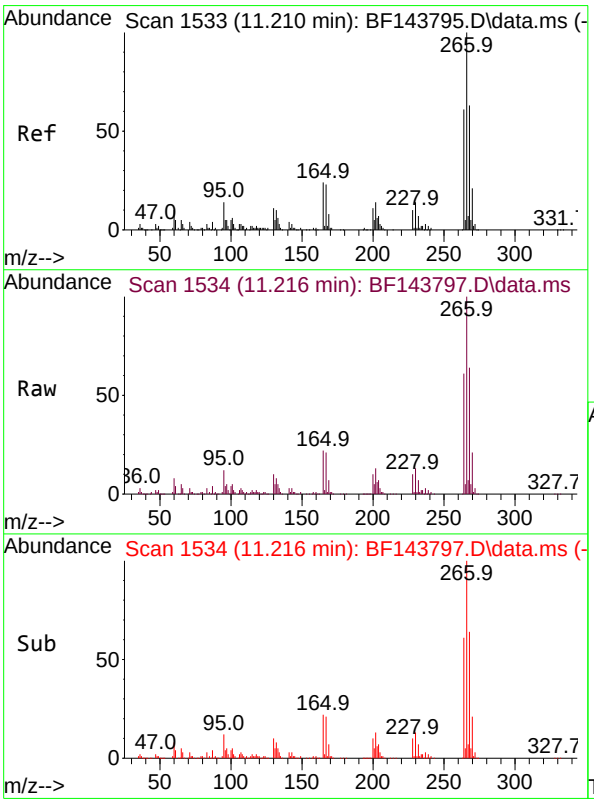
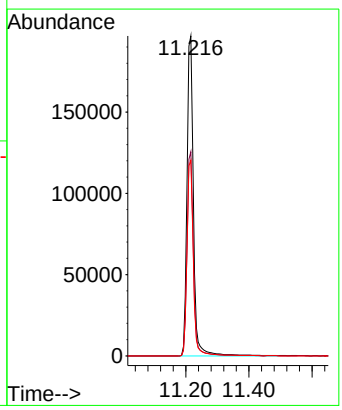
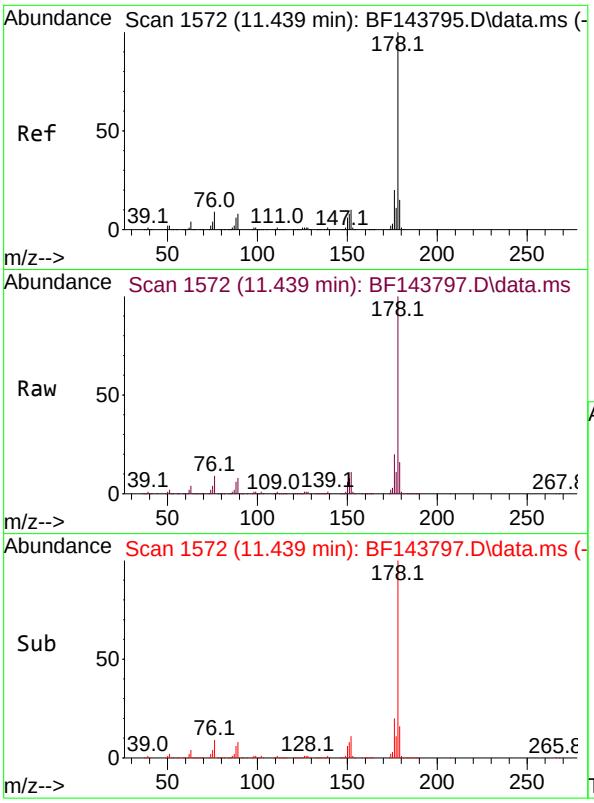


#70
Pentachlorophenol
Concen: 65.133 ng
RT: 11.216 min Scan# 1534
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:266 Resp: 277473

Ion	Ratio	Lower	Upper
266	100		
268	63.8	50.5	75.7
264	61.1	48.8	73.2

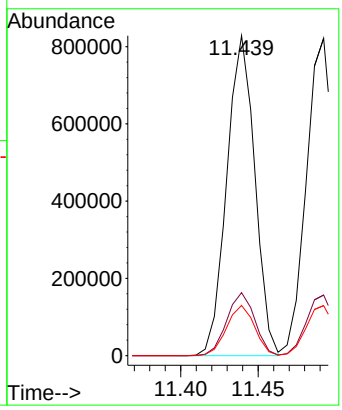




#71
Phenanthrene
Concen: 55.742 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:178 Resp: 104287

Ion	Ratio	Lower	Upper
178	100		
176	19.7	15.6	23.4
179	15.7	12.2	18.4



Instrument :
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ClientSampleId :
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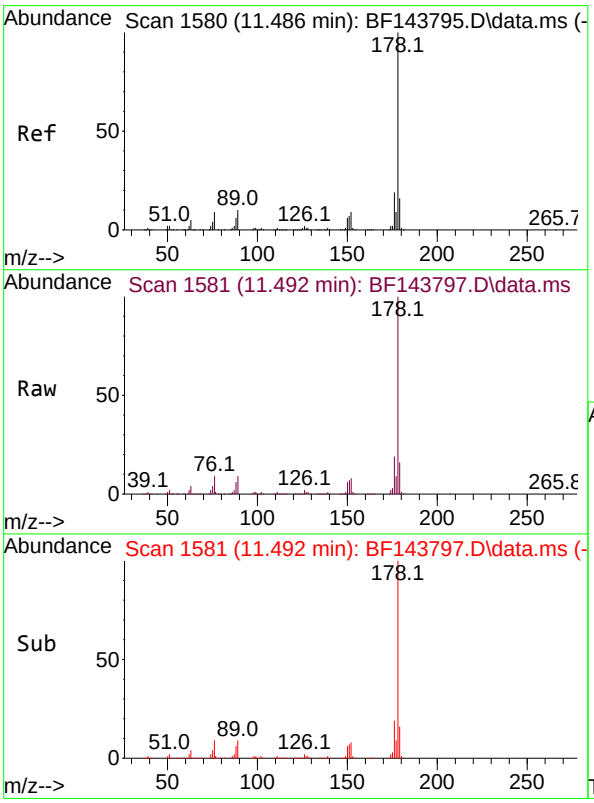
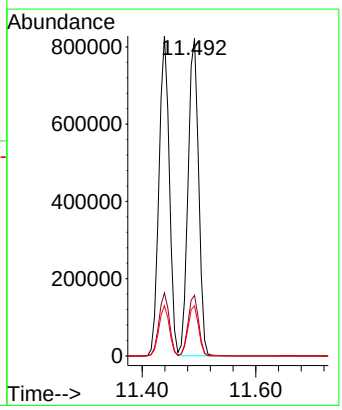
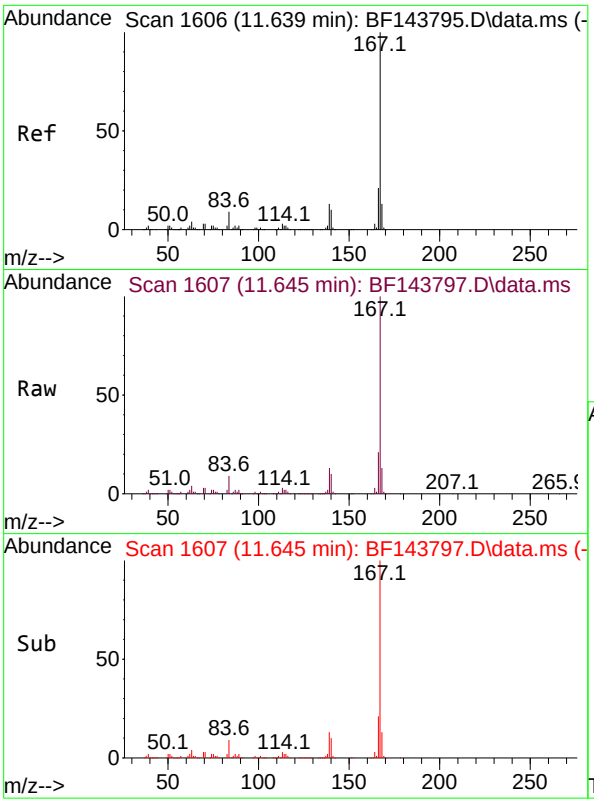


#72
Anthracene
Concen: 56.095 ng
RT: 11.492 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:178 Resp: 1052693

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.8	12.8	19.2

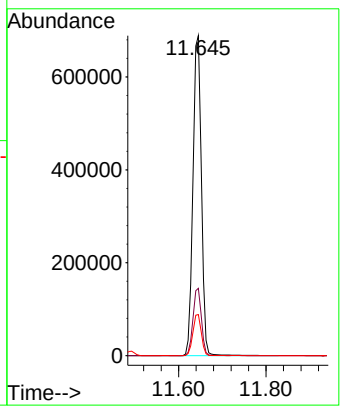




#73
Carbazole
Concen: 56.377 ng
RT: 11.645 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:167 Resp: 92503

Ion	Ratio	Lower	Upper
167	100		
166	21.0	17.0	25.4
139	12.8	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
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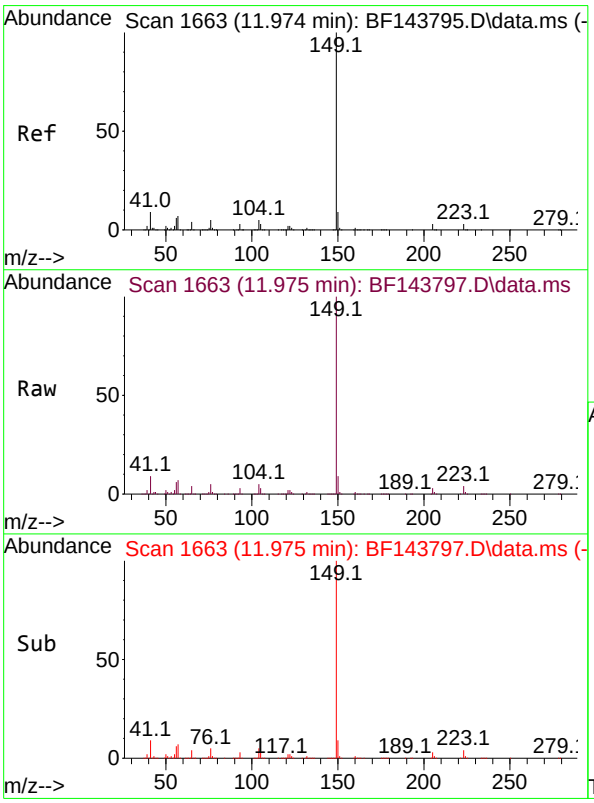
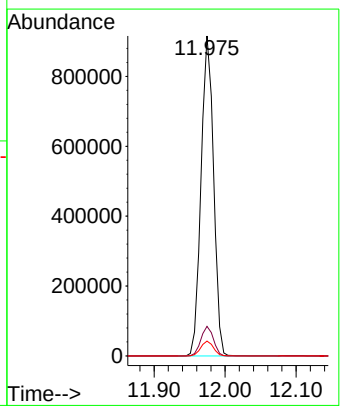
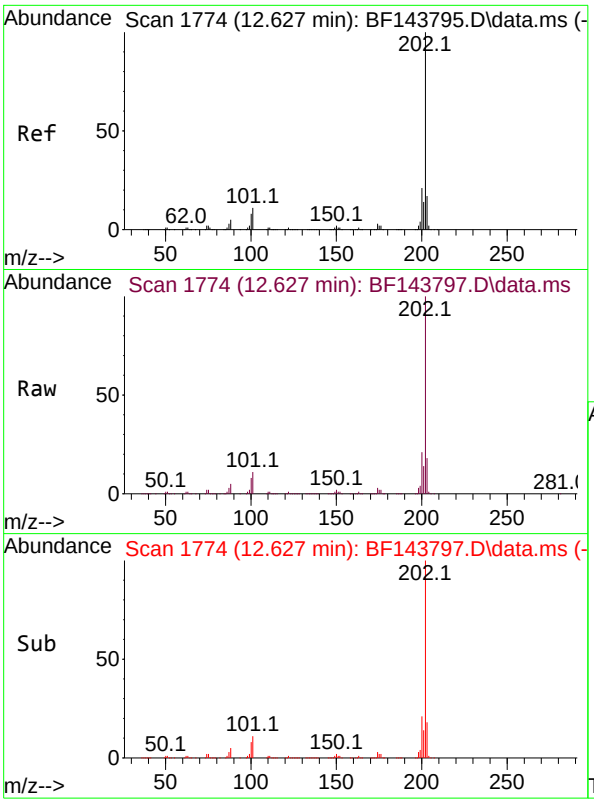


#74
Di-n-butylphthalate
Concen: 59.029 ng
RT: 11.975 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:149 Resp: 1113894

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	4.6	3.6	5.4

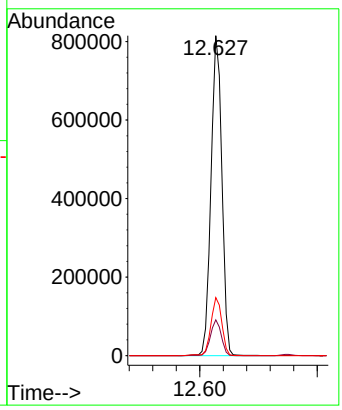




#75
Fluoranthene
Concen: 55.523 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:202 Resp: 104476

Ion	Ratio	Lower	Upper
202	100		
101	11.2	0.0	31.1
203	18.1	0.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

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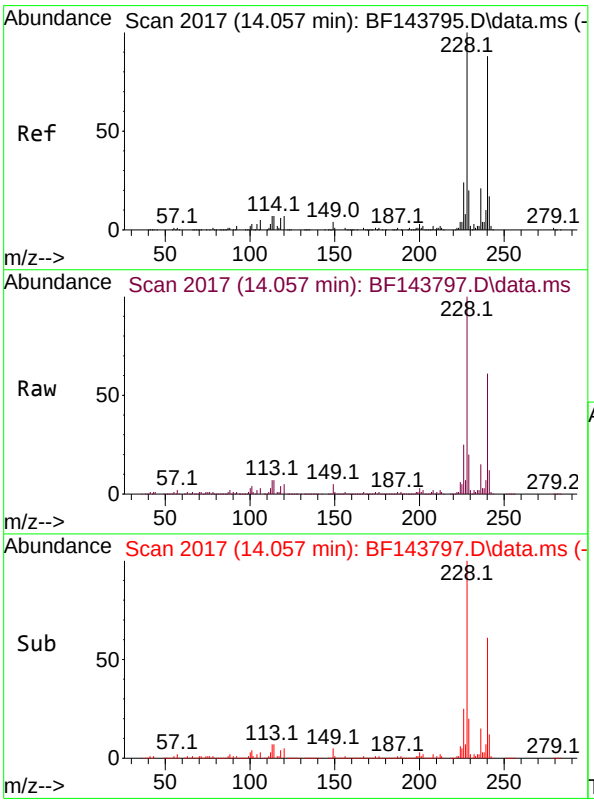
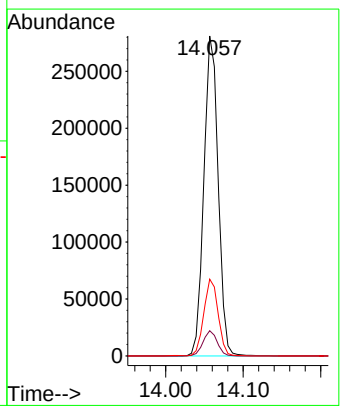
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

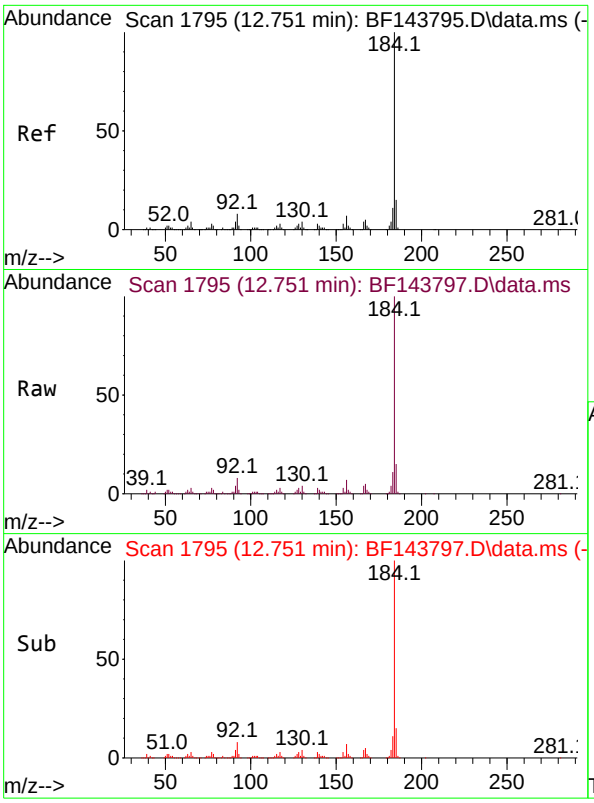


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:240 Resp: 359318

Ion	Ratio	Lower	Upper
240	100		
120	7.9	6.2	9.4
236	24.0	19.4	29.2

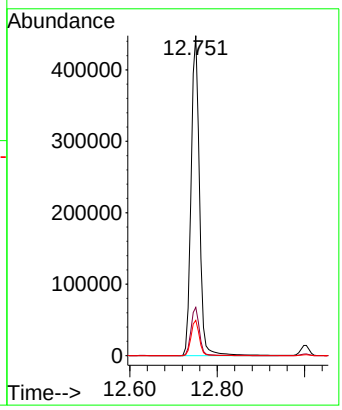




#77
Benzidine
Concen: 68.094 ng
RT: 12.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:184 Resp: 59621

Ion	Ratio	Lower	Upper
184	100		
185	15.1	11.6	17.4
183	11.0	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
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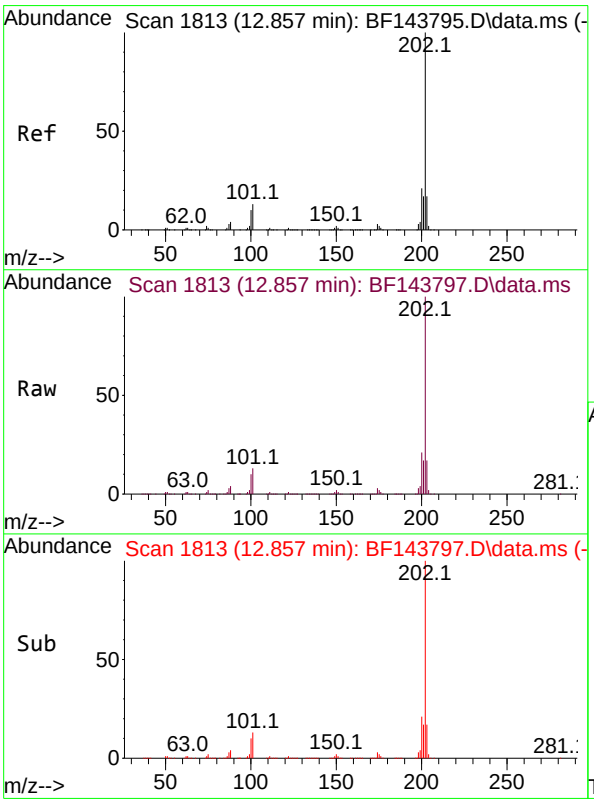
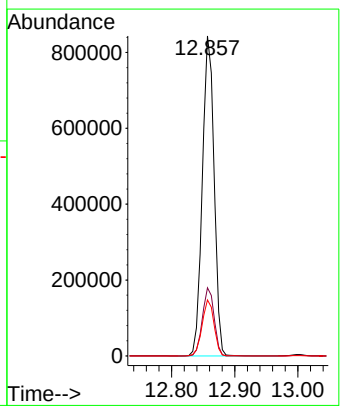
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

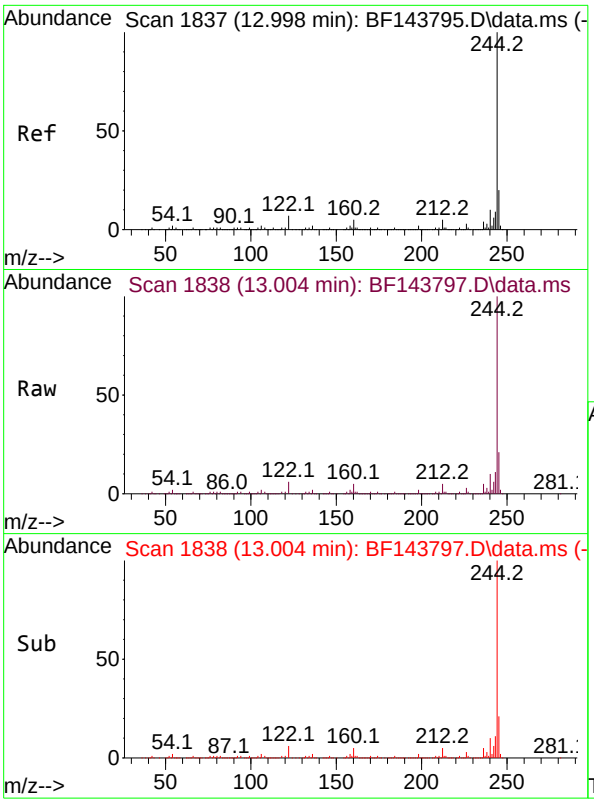


#78
Pyrene
Concen: 61.683 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:202 Resp: 1089660

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.5	13.9	20.9

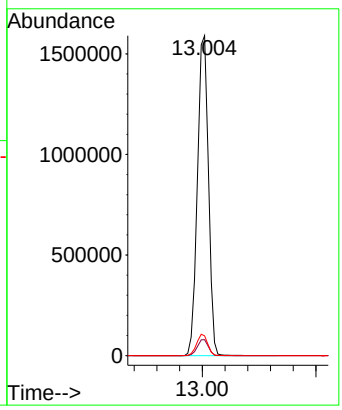




#79
Terphenyl-d14
Concen: 116.521 ng
RT: 13.004 min Scan# 18
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:244 Resp: 213252

Ion	Ratio	Lower	Upper
244	100		
212	5.0	3.9	5.9
122	6.2	5.6	8.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
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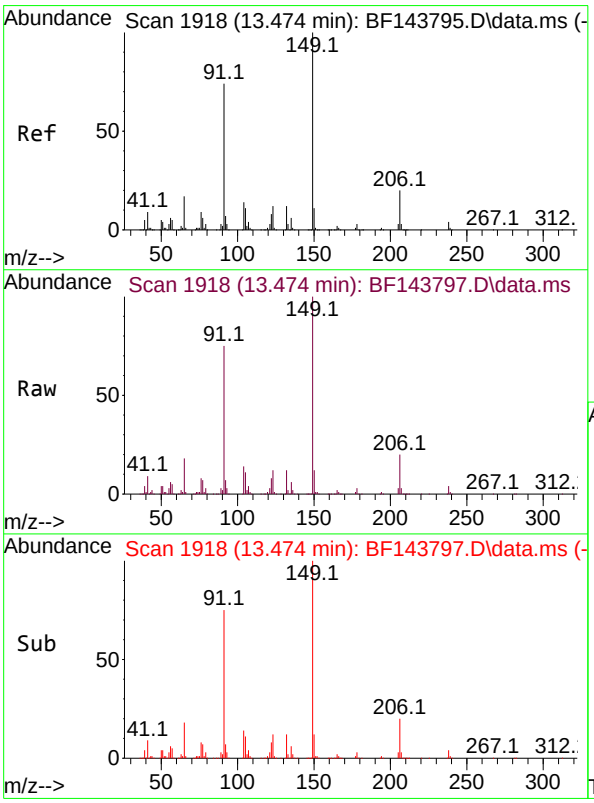
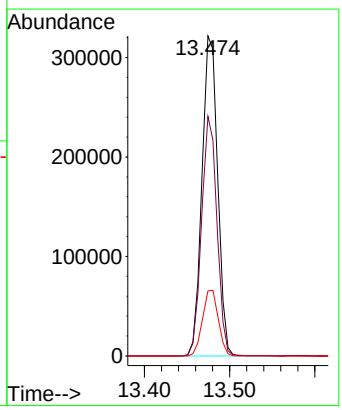
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

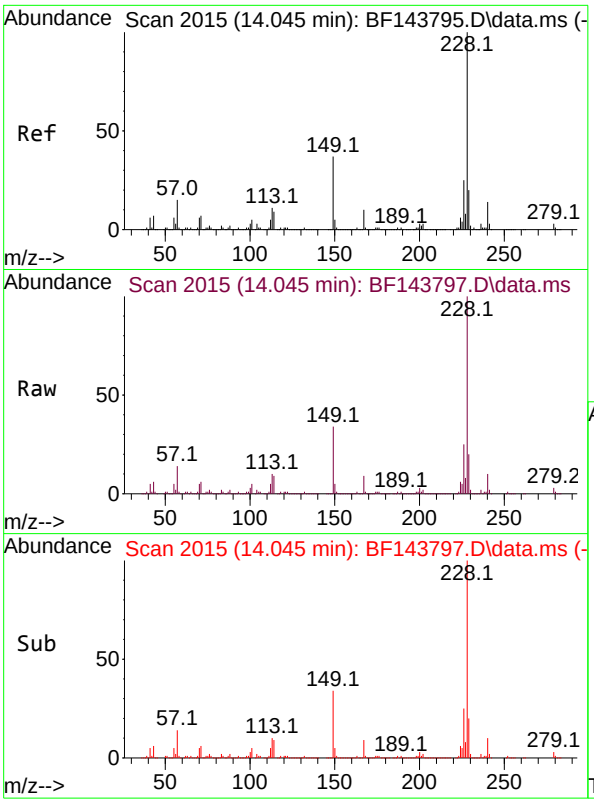


#80
Butylbenzylphthalate
Concen: 67.252 ng
RT: 13.474 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:149 Resp: 411027

Ion	Ratio	Lower	Upper
149	100		
91	74.8	59.5	89.3
206	20.3	16.1	24.1

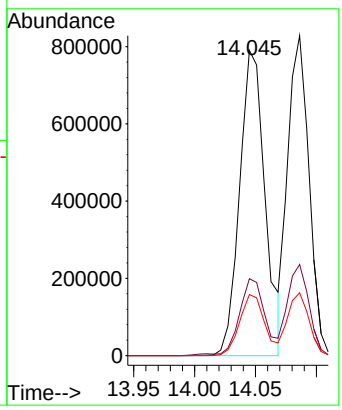




#81
Benzo(a)anthracene
Concen: 59.491 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:228 Resp: 114836

Ion	Ratio	Lower	Upper
228	100		
226	25.2	20.2	30.2
229	20.0	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
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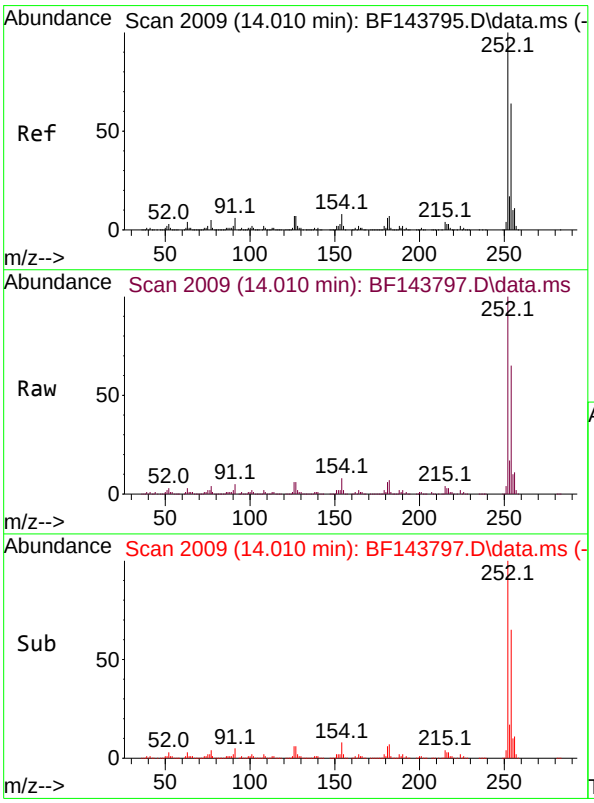
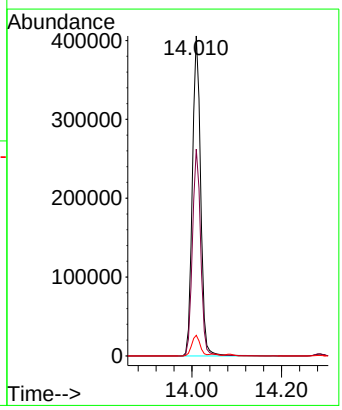
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

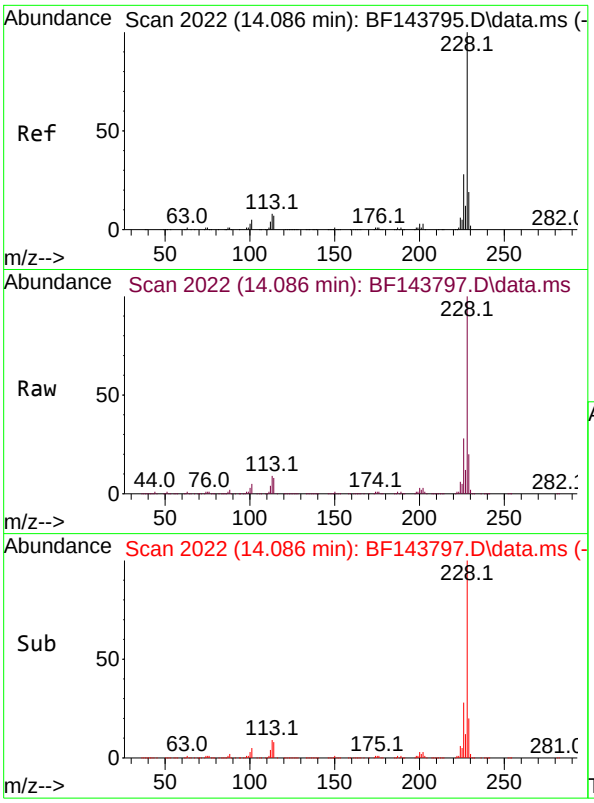


#82
3,3'-Dichlorobenzidine
Concen: 61.874 ng
RT: 14.010 min Scan# 2009
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:252 Resp: 517428

Ion	Ratio	Lower	Upper
252	100		
254	64.6	51.5	77.3
126	6.4	5.4	8.2

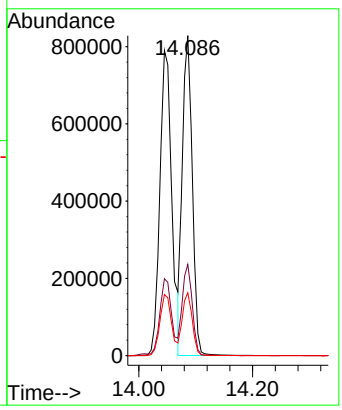




#83
Chrysene
Concen: 58.075 ng
RT: 14.086 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:228 Resp: 101438

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	19.6	15.6	23.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

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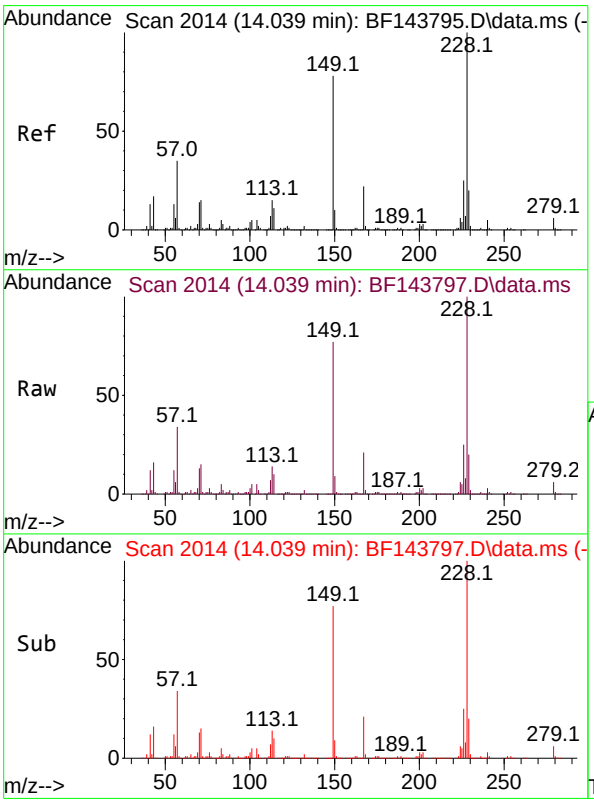
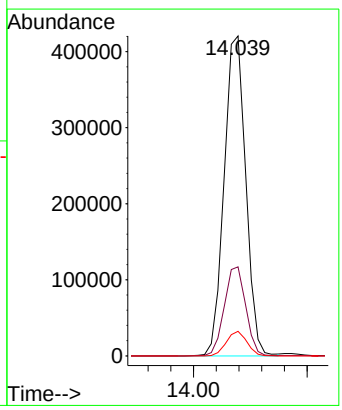
Supervised By :Jagrut Upadhyay 09/24/2025

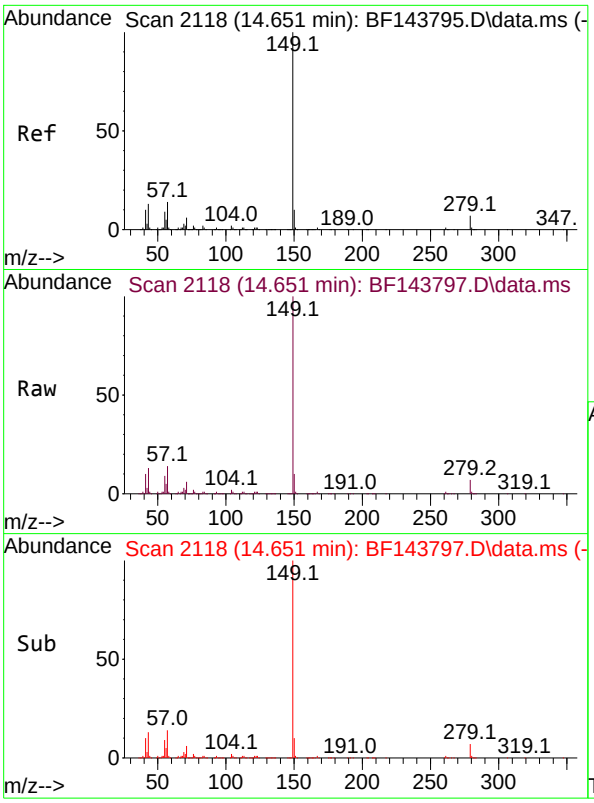


#84
Bis(2-ethylhexyl)phthalate
Concen: 62.115 ng
RT: 14.039 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:149 Resp: 556458

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.2
279	7.7	6.0	9.0

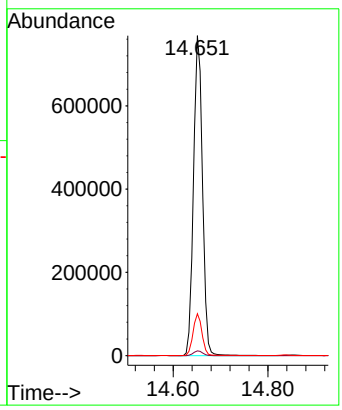




#85
Di-n-octyl phthalate
Concen: 62.167 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:149 Resp: 101022

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.1	1.7
43	13.0	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
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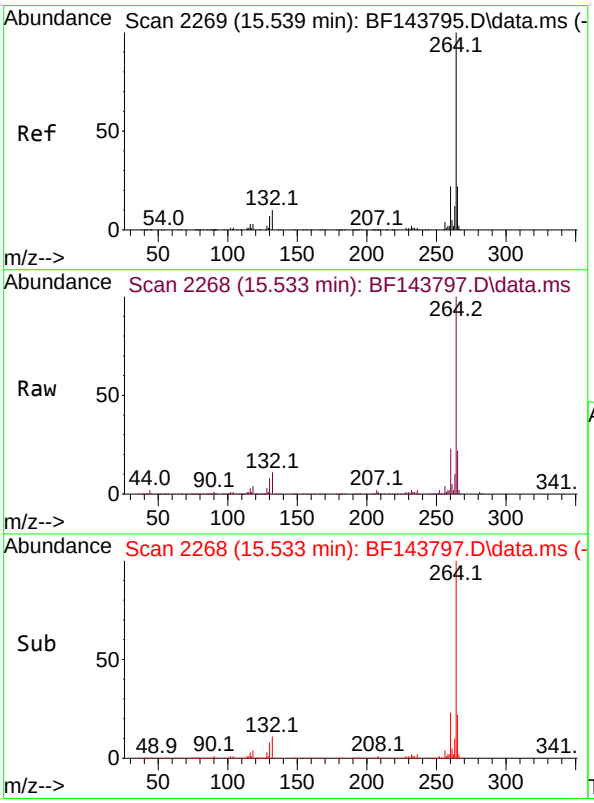
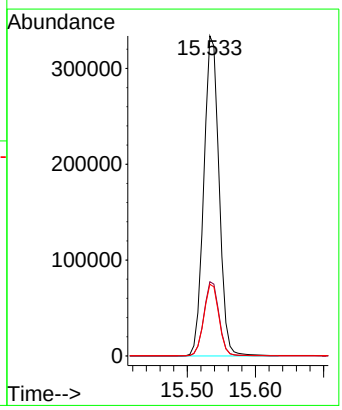
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

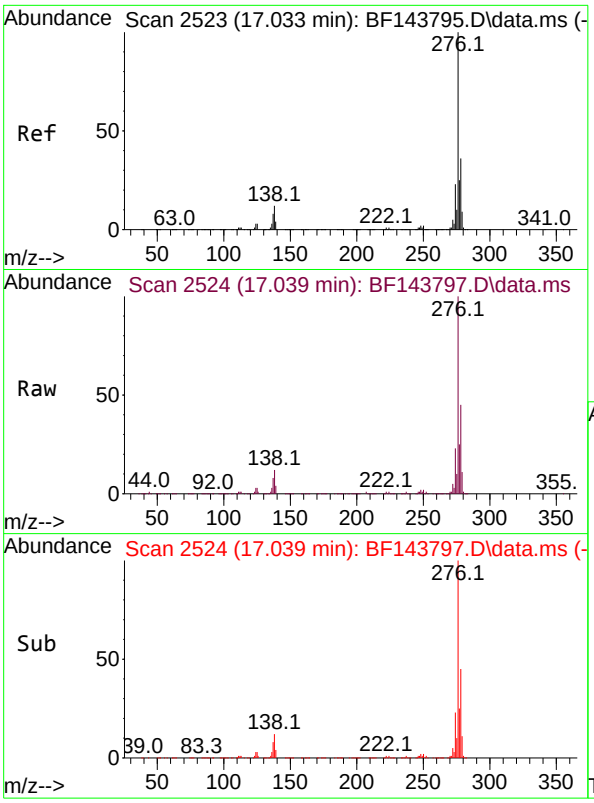


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:264 Resp: 519571

Ion	Ratio	Lower	Upper
264	100		
260	23.2	17.9	26.9
265	22.4	17.7	26.5

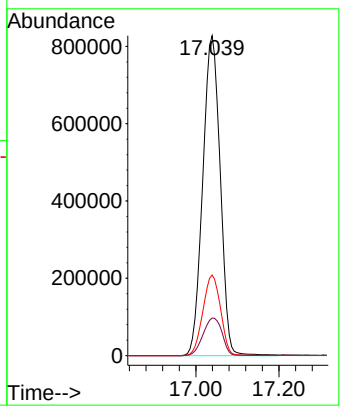




#87
Indeno(1,2,3-cd)pyrene
Concen: 61.213 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:276 Resp: 241312

Ion	Ratio	Lower	Upper
276	100		
138	12.8	10.6	15.8
277	25.5	20.7	31.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
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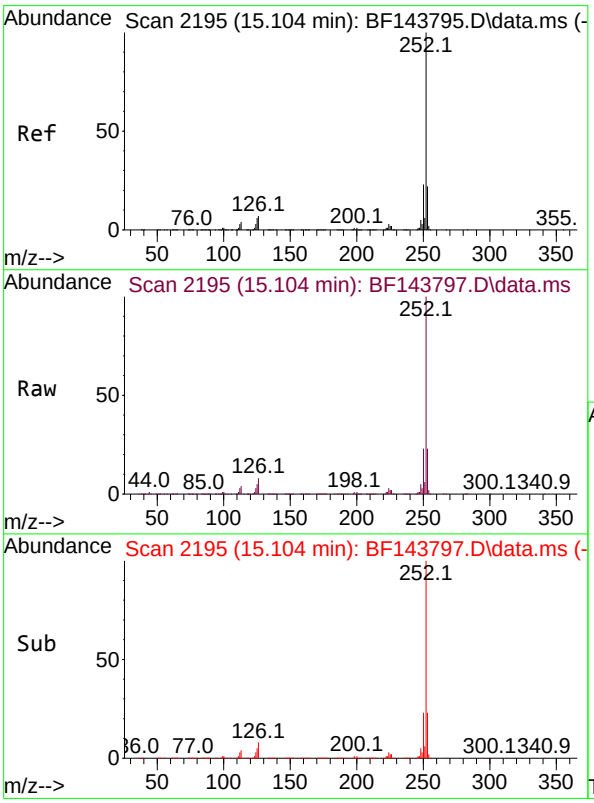
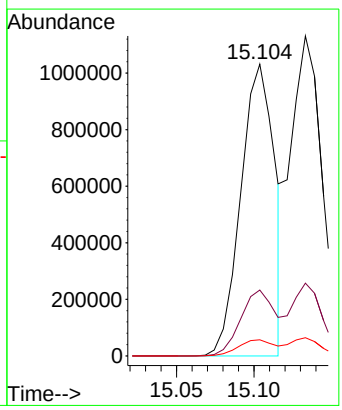
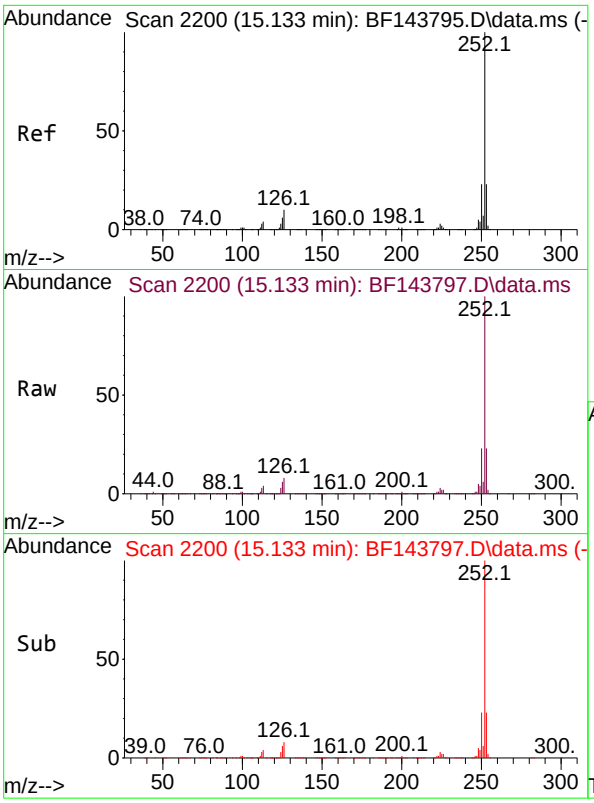


#88
Benzo(b)fluoranthene
Concen: 59.037 ng
RT: 15.104 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:252 Resp: 1562058

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.8
125	5.5	4.4	6.6





#89
Benzo(k)fluoranthene
Concen: 60.363 ng
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:252 Resp: 160460

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.9	26.9
125	5.7	4.6	6.8

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
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Reviewed By :Rahul Chavli 09/24/2025
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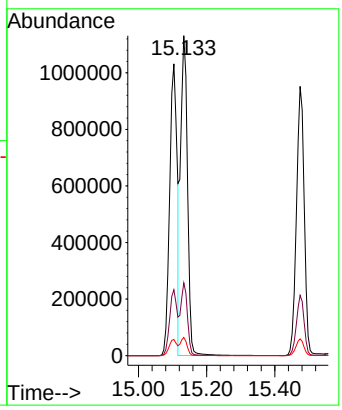
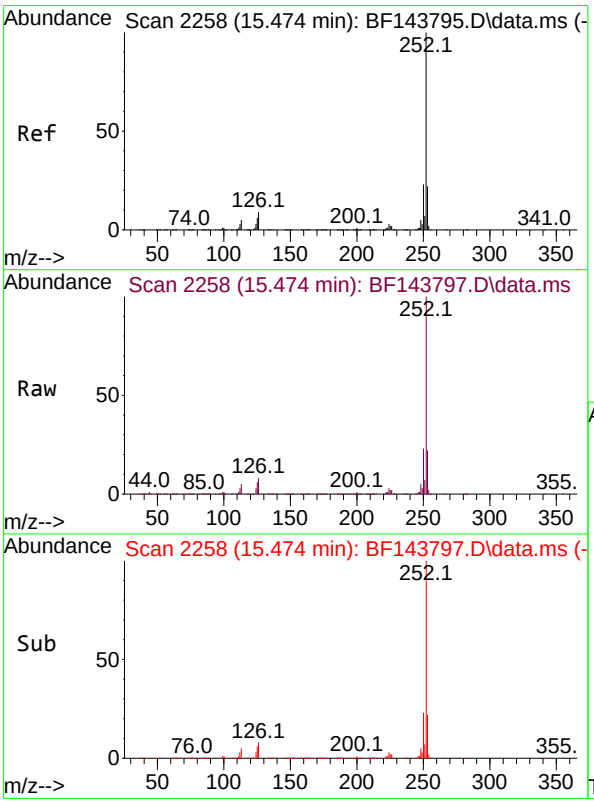
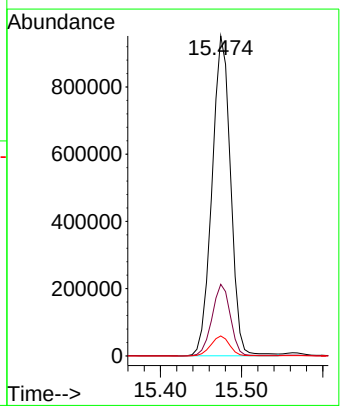


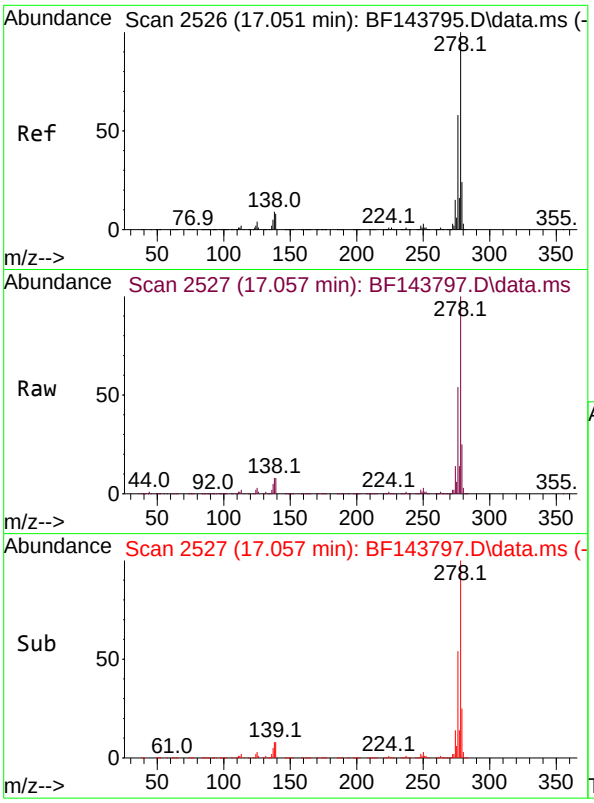


#90
Benzo(a)pyrene
Concen: 60.876 ng
RT: 15.474 min Scan# 2258
Delta R.T. -0.006 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:252 Resp: 1514049

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.6	26.4
125	6.2	5.0	7.4

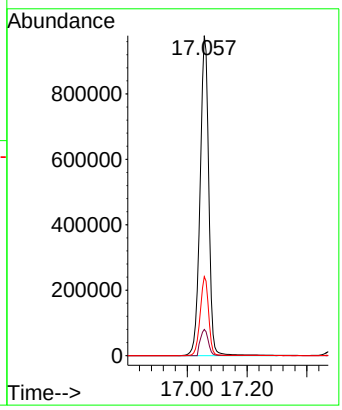




#91
Dibenzo(a,h)anthracene
Concen: 60.781 ng
RT: 17.057 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:278 Resp: 195978

Ion	Ratio	Lower	Upper
278	100		
139	8.2	6.7	10.1
279	24.7	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations
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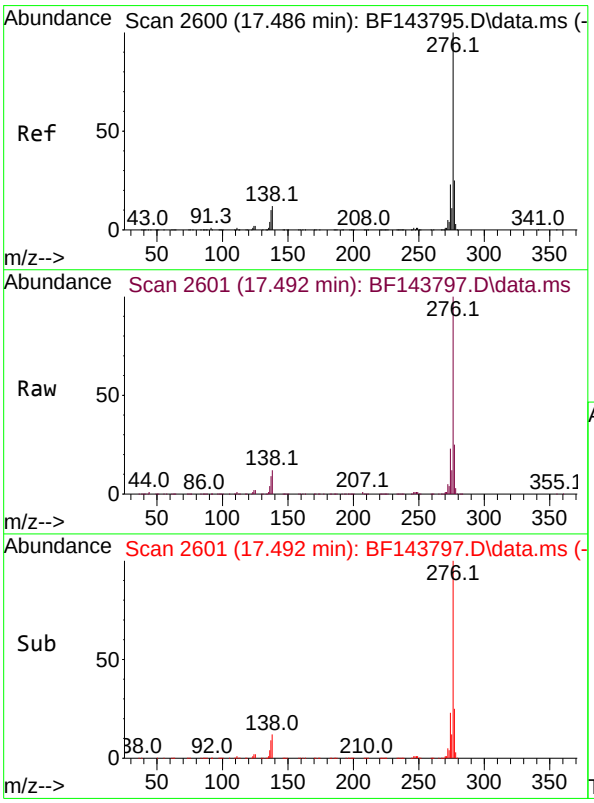
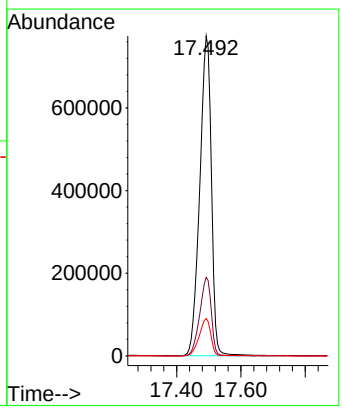
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025



#92
Benzo(g,h,i)perylene
Concen: 62.375 ng
RT: 17.492 min Scan# 2601
Delta R.T. -0.012 min
Lab File: BF143797.D
Acq: 23 Sep 2025 14:58

Tgt Ion:276 Resp: 1938747

Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.6	29.4
138	11.7	9.2	13.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143798.D
Acq On : 23 Sep 2025 15:27
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:07:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	114150	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	403097	20.000	ng	0.00
39) Acenaphthene-d10	9.928	164	191047	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	300725	20.000	ng	0.00
76) Chrysene-d12	14.063	240	368976	20.000	ng	0.00
86) Perylene-d12	15.539	264	561861	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	1026027	144.655	ng	0.00
7) Phenol-d6	6.510	99	1156687	138.192	ng	0.00
23) Nitrobenzene-d5	7.451	82	991785	154.839	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	406469	149.081	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1675409	129.595	ng	0.00
79) Terphenyl-d14	13.004	244	2514401	133.790	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.634	88	263600	78.385	ng	99
3) Pyridine	3.399	79	703509	77.500	ng	99
4) n-Nitrosodimethylamine	3.357	42	358564	78.776	ng	99
6) Aniline	6.551	93	833840	70.770	ng	99
8) 2-Chlorophenol	6.669	128	523096	72.726	ng	96
9) Benzaldehyde	6.439	77	512709	72.121	ng	100
10) Phenol	6.528	94	668000m	70.793	ng	
11) bis(2-Chloroethyl)ether	6.622	93	528015	71.386	ng	97
12) 1,3-Dichlorobenzene	6.828	146	592035	70.893	ng	99
13) 1,4-Dichlorobenzene	6.904	146	587436	70.485	ng	100
14) 1,2-Dichlorobenzene	7.057	146	554647	70.268	ng	99
15) Benzyl Alcohol	7.028	79	427439	72.870	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	1250239	71.282	ng	100
17) 2-Methylphenol	7.134	107	401874	72.168	ng	98
18) Hexachloroethane	7.404	117	213691	72.909	ng	96
19) n-Nitroso-di-n-propyla...	7.304	70	349063	66.866	ng	99
20) 3+4-Methylphenols	7.287	107	466916	68.853	ng	98
22) Acetophenone	7.298	105	601642	67.955	ng	97
24) Nitrobenzene	7.475	77	552229	75.655	ng	97
25) Isophorone	7.710	82	926928	72.232	ng	99
26) 2-Nitrophenol	7.786	139	241928	78.881	ng	95
27) 2,4-Dimethylphenol	7.816	122	420564	73.324	ng	99
28) bis(2-Chloroethoxy)met...	7.916	93	579809	69.544	ng	99
29) 2,4-Dichlorophenol	8.022	162	418769	74.200	ng	98
30) 1,2,4-Trichlorobenzene	8.110	180	426294	72.784	ng	98
31) Naphthalene	8.192	128	1331192	68.985	ng	99
32) Benzoic acid	7.922	122	259578	93.800	ng	96
33) 4-Chloroaniline	8.239	127	475524	70.124	ng	99
34) Hexachlorobutadiene	8.310	225	320435	73.390	ng	99
35) Caprolactam	8.610	113	112528	78.007	ng	99
36) 4-Chloro-3-methylphenol	8.710	107	383212	72.398	ng	98
37) 2-Methylnaphthalene	8.881	142	839849	68.255	ng	100
38) 1-Methylnaphthalene	8.981	142	799000	67.842	ng	98
40) 1,2,4,5-Tetrachloroben...	9.051	216	419788	72.811	ng	99
41) Hexachlorocyclopentadiene	9.039	237	295770	80.945	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	278988	77.279	ng	99

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143798.D
Acq On : 23 Sep 2025 15:27
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

Quant Time: Sep 23 17:07:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	291440	77.179	ng	99
46) 1,1'-Biphenyl	9.345	154	969811	70.127	ng	99
47) 2-Chloronaphthalene	9.375	162	792043	71.150	ng	99
48) 2-Nitroaniline	9.463	65	294783	87.616	ng	97
49) Acenaphthylene	9.786	152	1100520	71.813	ng	99
50) Dimethylphthalate	9.639	163	857631	73.652	ng	100
51) 2,6-Dinitrotoluene	9.704	165	168866	88.265	ng	96
52) Acenaphthene	9.963	154	727931	72.181	ng	98
53) 3-Nitroaniline	9.875	138	201936	87.079	ng	99
54) 2,4-Dinitrophenol	9.975	184	64545	79.097	ng	91
55) Dibenzofuran	10.133	168	1015631	71.219	ng	100
56) 4-Nitrophenol	10.022	139	160308	85.785	ng	96
57) 2,4-Dinitrotoluene	10.110	165	229035	78.669	ng	99
58) Fluorene	10.475	166	730945	68.947	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	269005	83.157	ng	98
60) Diethylphthalate	10.345	149	814823	74.753	ng	99
61) 4-Chlorophenyl-phenyle...	10.469	204	384933	71.259	ng	97
62) 4-Nitroaniline	10.492	138	195008	89.434	ng	99
63) Azobenzene	10.627	77	841633	73.264	ng	99
65) 4,6-Dinitro-2-methylph...	10.516	198	101519	78.431	ng	94
66) n-Nitrosodiphenylamine	10.586	169	714258	72.221	ng	99
67) 4-Bromophenyl-phenylether	10.957	248	389253	75.954	ng	98
68) Hexachlorobenzene	11.022	284	525440	74.398	ng	99
69) Atrazine	11.110	200	219693	76.710	ng	99
70) Pentachlorophenol	11.216	266	311232	88.529	ng	99
71) Phenanthrene	11.439	178	1108268	71.783	ng	99
72) Anthracene	11.492	178	1136970	73.416	ng	99
73) Carbazole	11.645	167	1018624	75.229	ng	100
74) Di-n-butylphthalate	11.974	149	1239778	79.613	ng	100
75) Fluoranthene	12.627	202	1217249	78.389	ng	99
77) Benzidine	12.751	184	600496	66.788	ng	100
78) Pyrene	12.857	202	1279855	70.553	ng	99
80) Butylbenzylphthalate	13.480	149	528060	84.139	ng	97
81) Benzo(a)anthracene	14.051	228	1467968	74.057	ng	99
82) 3,3'-Dichlorobenzidine	14.010	252	687295	80.036	ng	99
83) Chrysene	14.086	228	1352077	75.382	ng	99
84) Bis(2-ethylhexyl)phtha...	14.039	149	726710	78.996	ng	100
85) Di-n-octyl phthalate	14.657	149	1372332	82.239	ng	100
87) Indeno(1,2,3-cd)pyrene	17.045	276	3299429	77.396	ng	99
88) Benzo(b)fluoranthene	15.104	252	2247670	78.555	ng	98
89) Benzo(k)fluoranthene	15.139	252	2033980	70.756	ng	99
90) Benzo(a)pyrene	15.480	252	2063204	76.712	ng	99
91) Dibenzo(a,h)anthracene	17.068	278	2621312	75.178	ng	99
92) Benzo(g,h,i)perylene	17.503	276	2625358	78.108	ng	100

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

ICAL Form

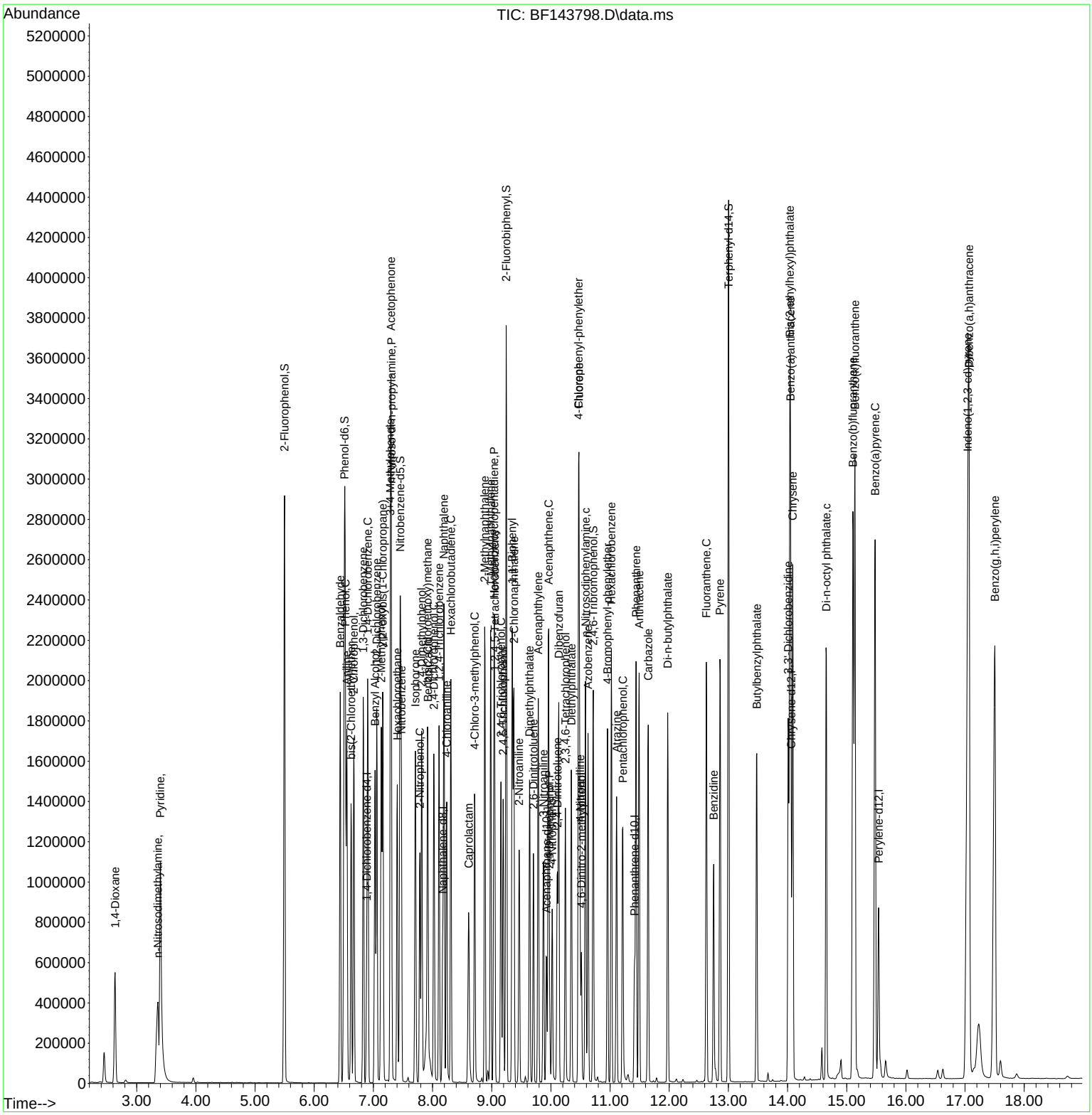
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143798.D
Acq On : 23 Sep 2025 15:27
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

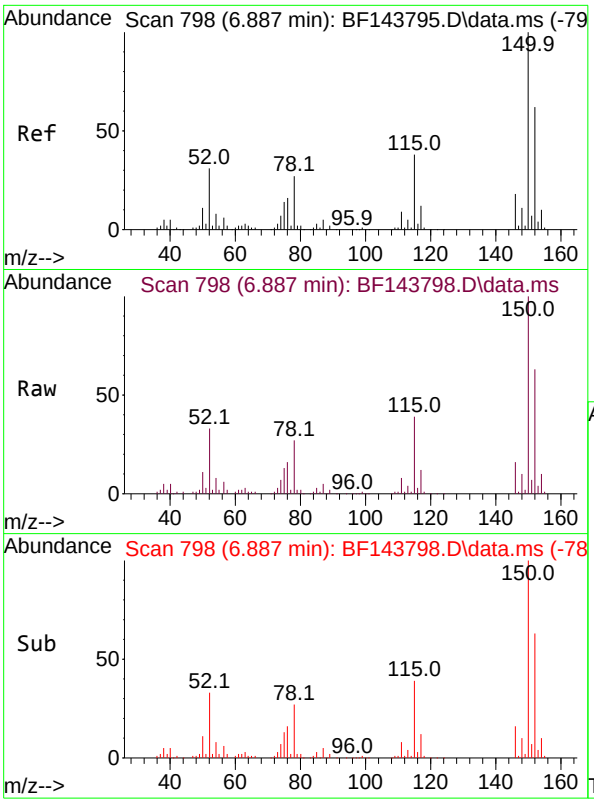
Quant Time: Sep 23 17:07:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 16:31:21 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

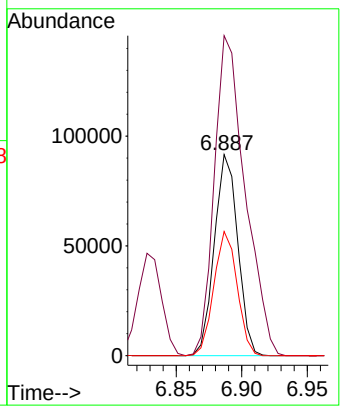




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 79
Delta R.T. -0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:152 Resp: 11415

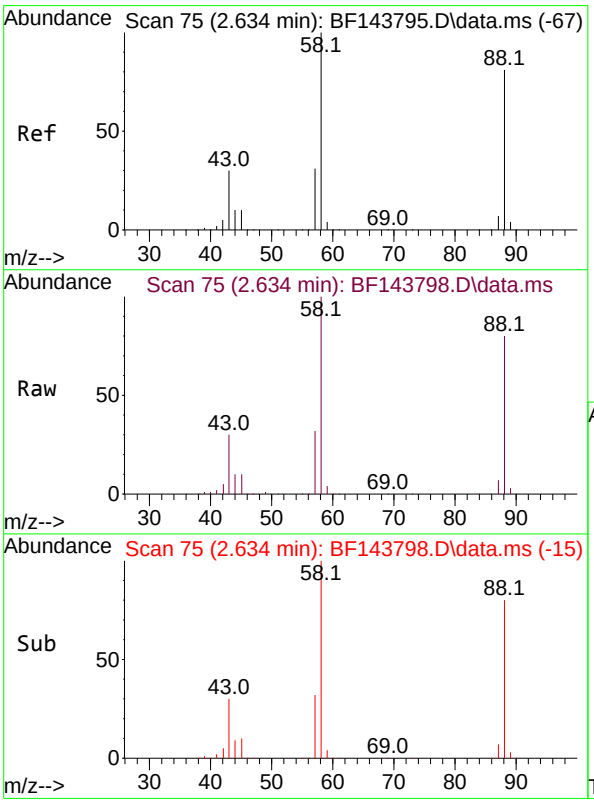
Ion	Ratio	Lower	Upper
152	100		
150	159.2	129.6	194.4
115	61.8	49.0	73.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

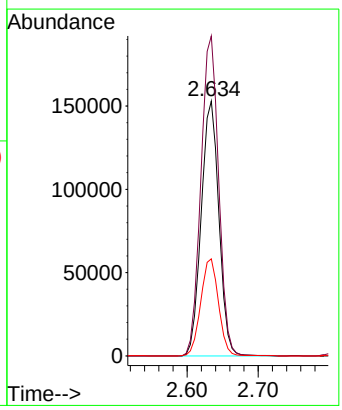
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

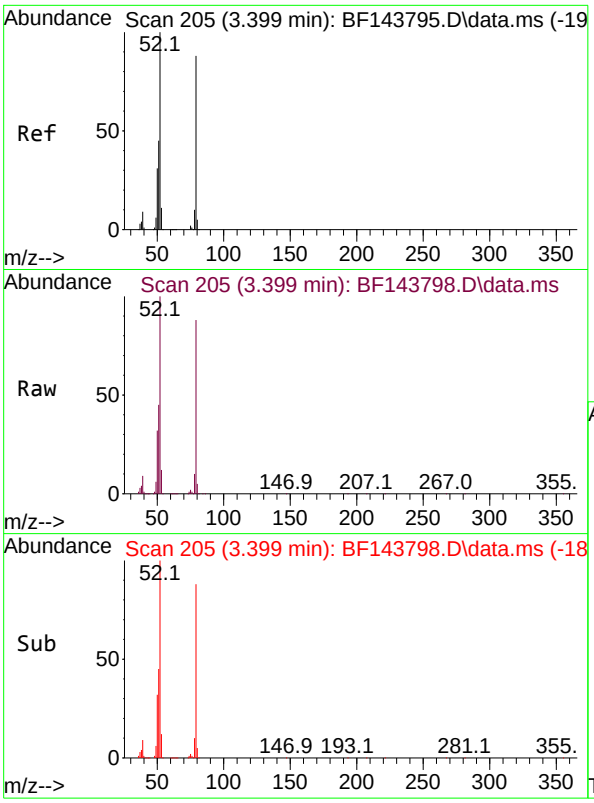


#2
1,4-Dioxane
Concen: 78.385 ng
RT: 2.634 min Scan# 75
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 88 Resp: 263600

Ion	Ratio	Lower	Upper
88	100		
58	126.1	99.4	149.2
43	38.3	30.6	45.8

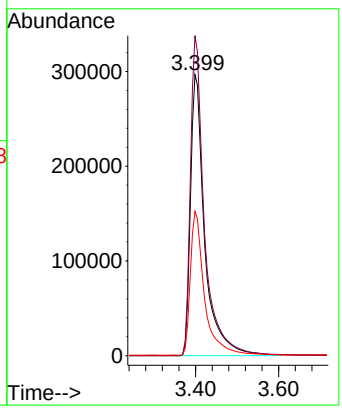




#3
Pyridine
Concen: 77.500 ng
RT: 3.399 min Scan# 20
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 79 Resp: 703509

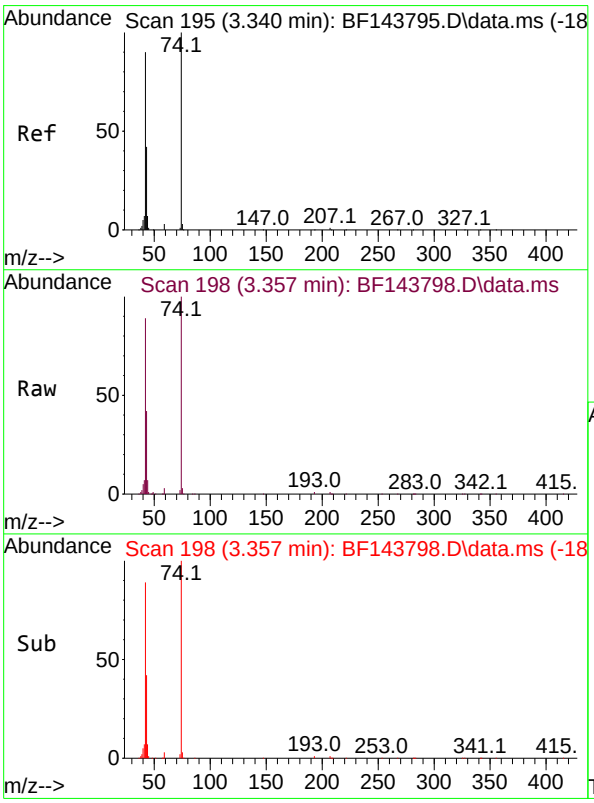
Ion	Ratio	Lower	Upper
79	100		
52	113.9	90.5	135.7
51	51.3	40.6	61.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

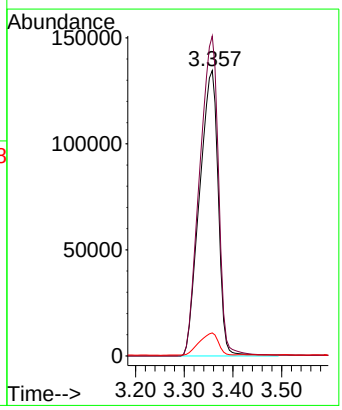
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

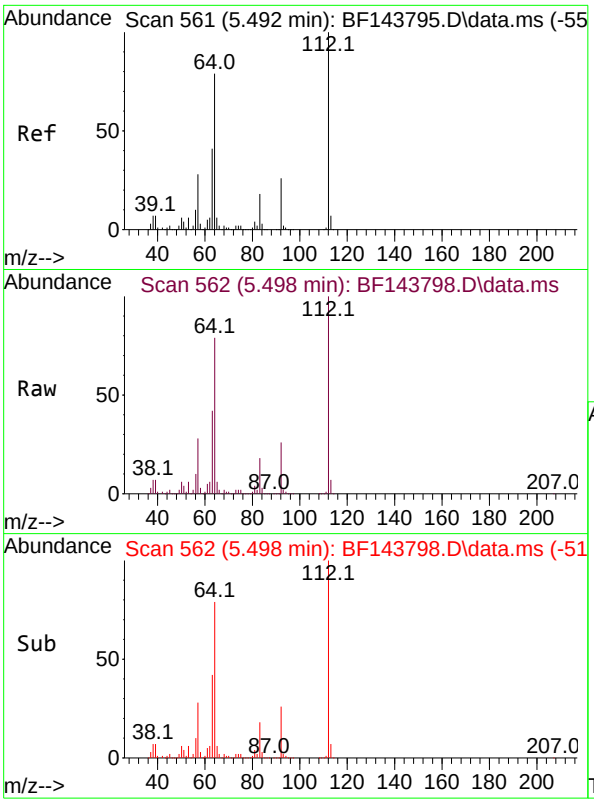


#4
n-Nitrosodimethylamine
Concen: 78.776 ng
RT: 3.357 min Scan# 198
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 42 Resp: 358564

Ion	Ratio	Lower	Upper
42	100		
74	112.1	89.1	133.7
44	8.1	6.4	9.6

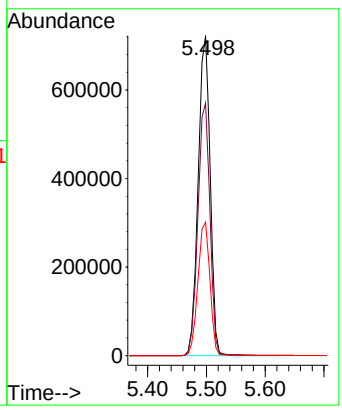




#5
2-Fluorophenol
Concen: 144.655 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:112 Resp: 102602

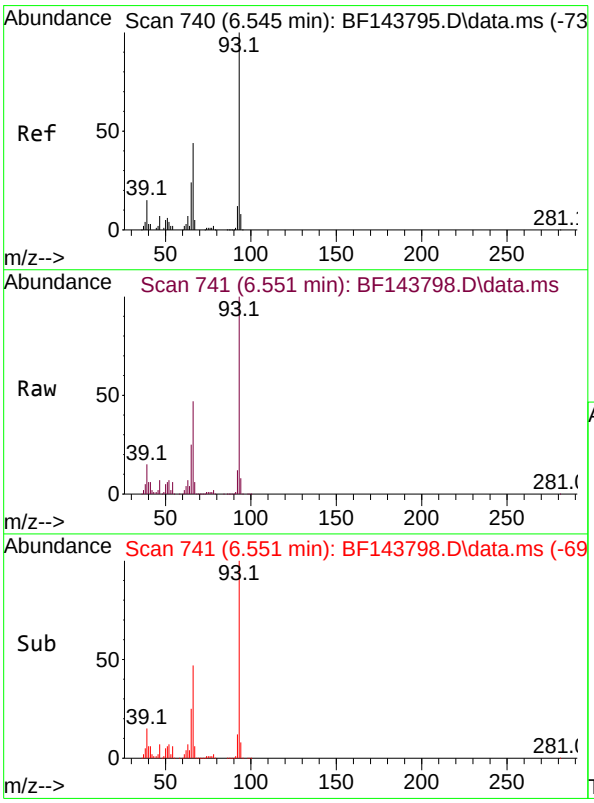
Ion	Ratio	Lower	Upper
112	100		
64	78.9	63.0	94.4
63	41.7	32.6	49.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

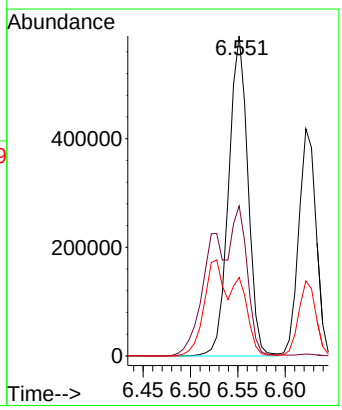
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

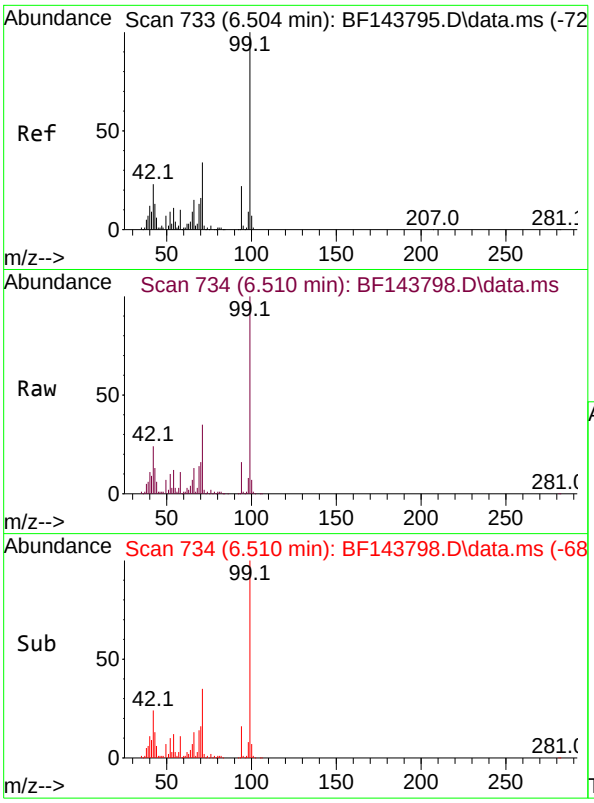


#6
Aniline
Concen: 70.770 ng
RT: 6.551 min Scan# 741
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 93 Resp: 833840

Ion	Ratio	Lower	Upper
93	100		
66	46.9	37.1	55.7
65	24.5	19.4	29.0

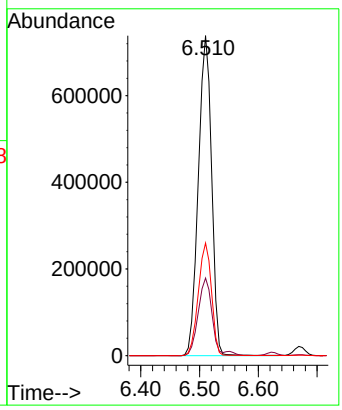




#7
Phenol-d6
Concen: 138.192 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 99 Resp: 115668

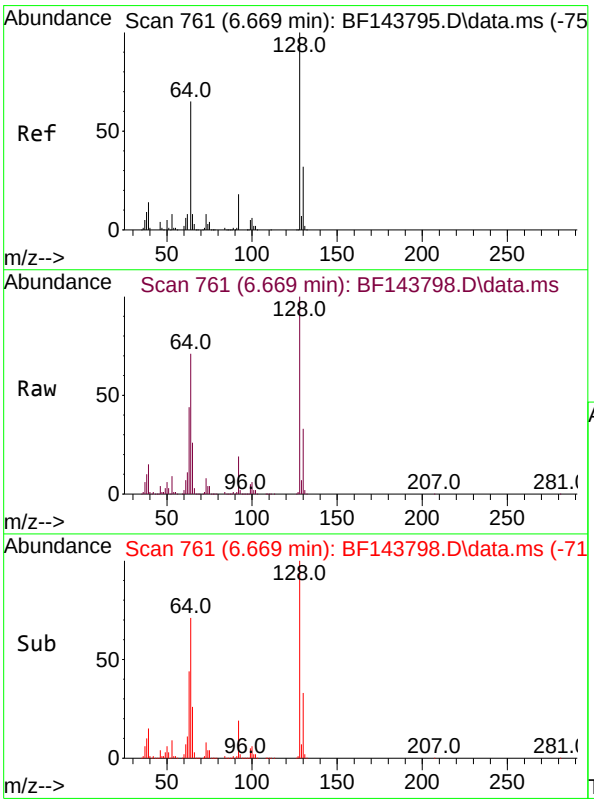
Ion	Ratio	Lower	Upper
99	100		
42	24.2	18.6	28.0
71	35.2	27.0	40.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

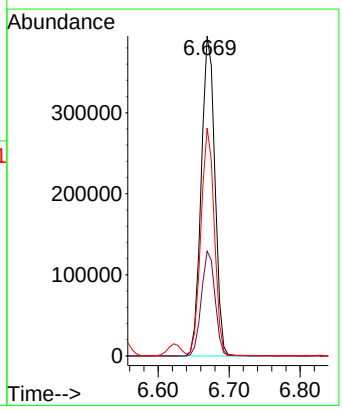
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

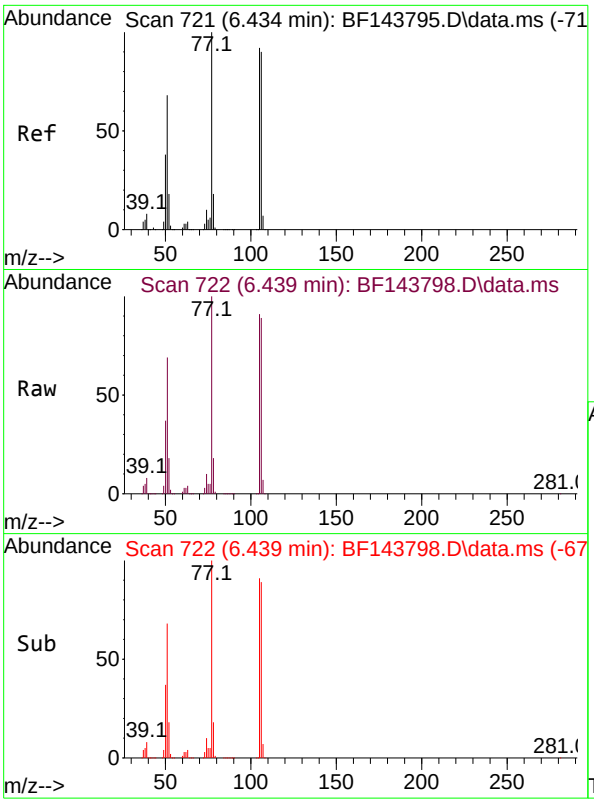


#8
2-Chlorophenol
Concen: 72.726 ng
RT: 6.669 min Scan# 761
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:128 Resp: 523096

Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.2	52.2
64	71.2	46.5	86.5

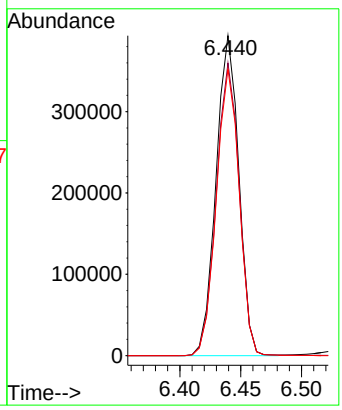




#9
Benzaldehyde
Concen: 72.121 ng
RT: 6.439 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 77 Resp: 51270

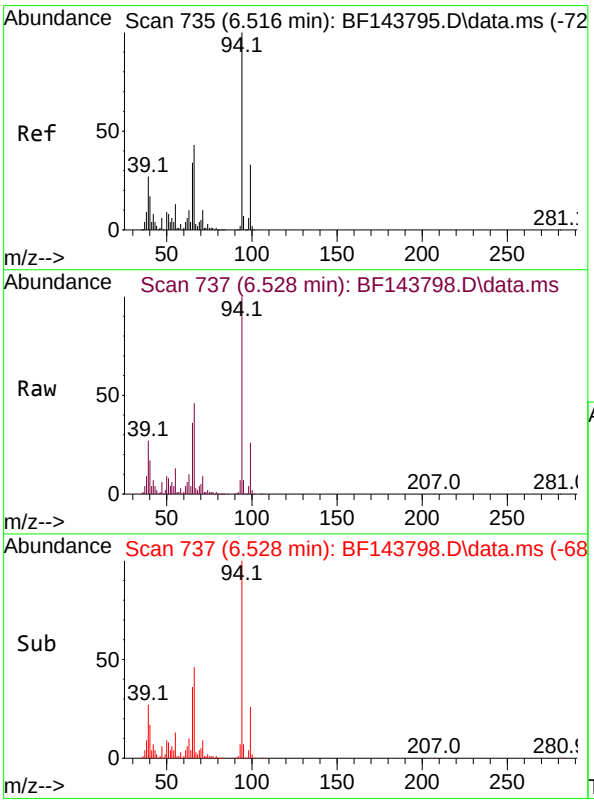
Ion	Ratio	Lower	Upper
77	100		
105	91.4	71.8	111.8
106	89.5	69.8	109.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

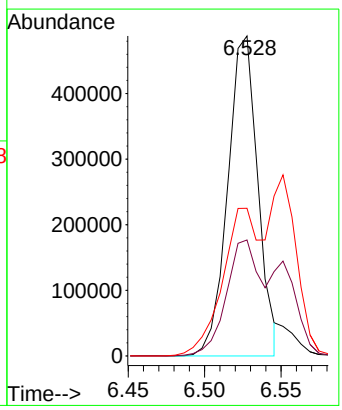
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

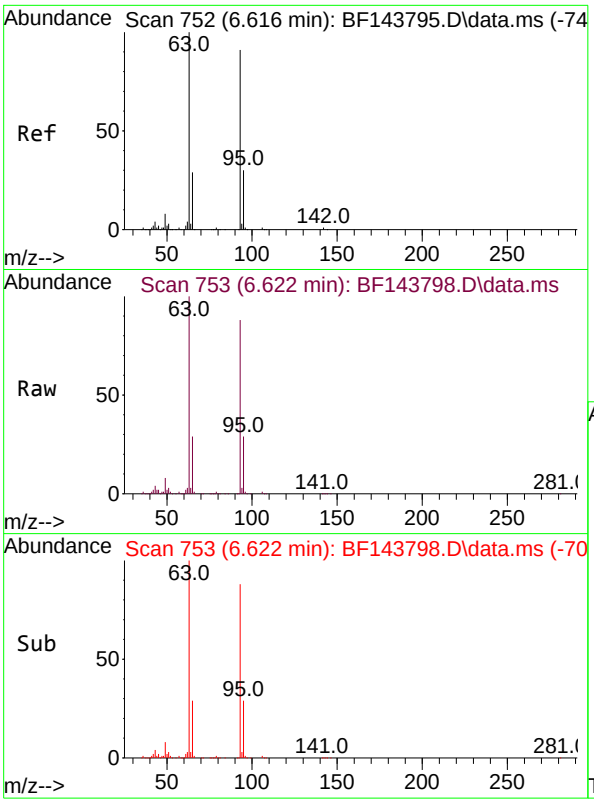


#10
Phenol
Concen: 70.793 ng m
RT: 6.528 min Scan# 737
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 94 Resp: 668000

Ion	Ratio	Lower	Upper
94	100		
65	36.2	14.2	54.2
66	46.1	24.1	64.1

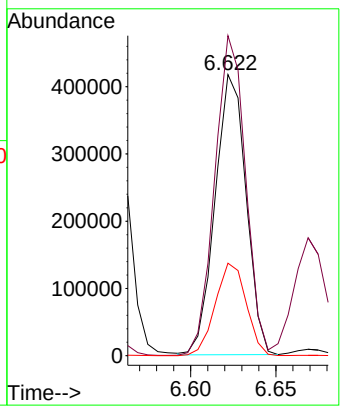




#11
bis(2-Chloroethyl)ether
Concen: 71.386 ng
RT: 6.622 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 93 Resp: 52801

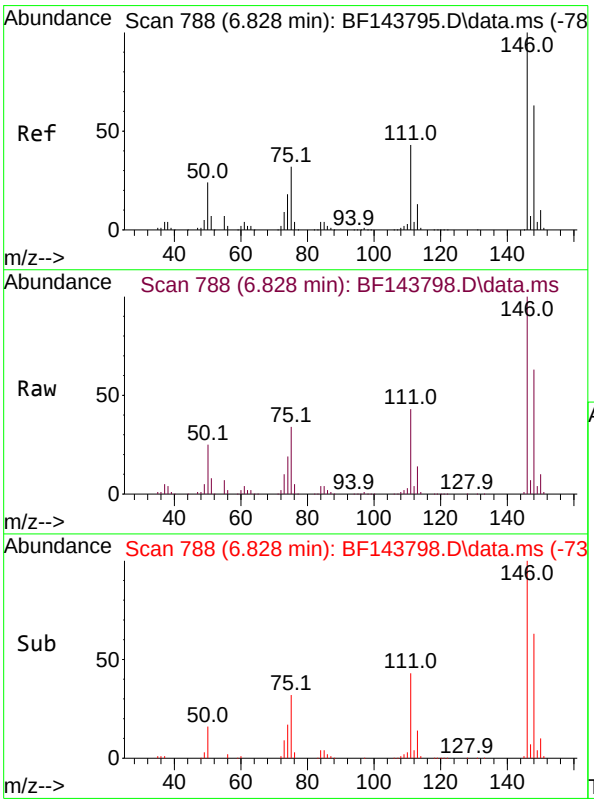
Ion	Ratio	Lower	Upper
93	100		
63	113.8	89.2	129.2
95	32.9	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

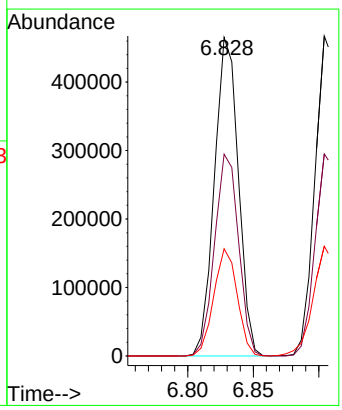
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

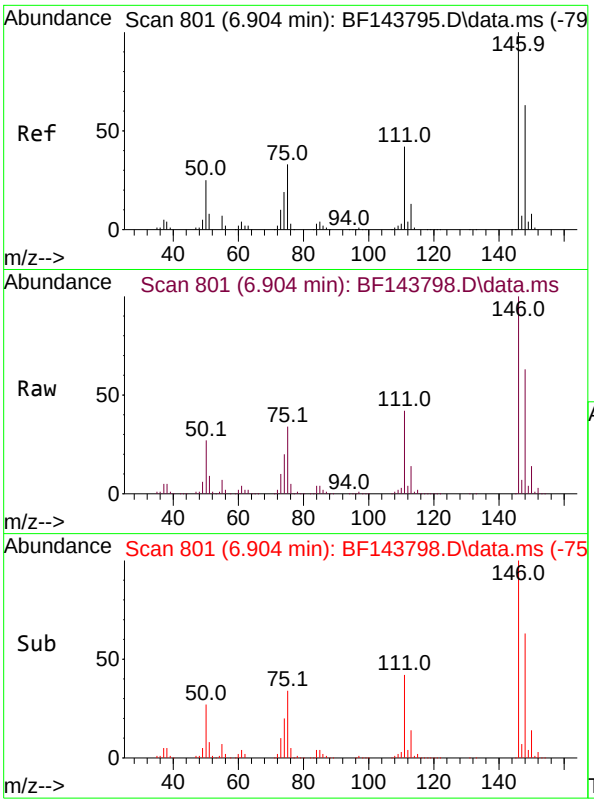


#12
1,3-Dichlorobenzene
Concen: 70.893 ng
RT: 6.828 min Scan# 788
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:146 Resp: 592035

Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.4	75.6
75	33.6	25.6	38.4

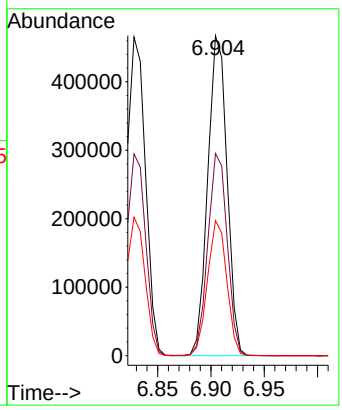




#13
1,4-Dichlorobenzene
Concen: 70.485 ng
RT: 6.904 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:146 Resp: 58743

Ion	Ratio	Lower	Upper
146	100		
148	63.1	50.7	76.1
111	42.2	33.4	50.2



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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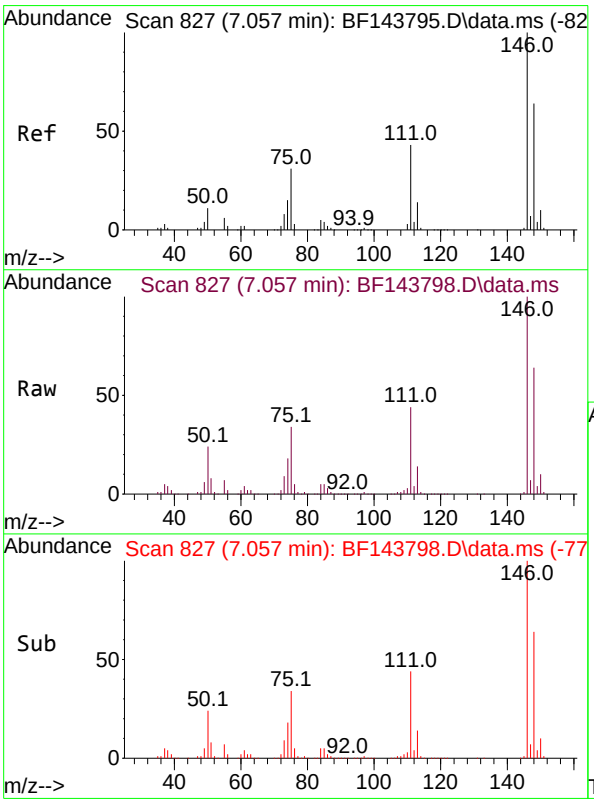
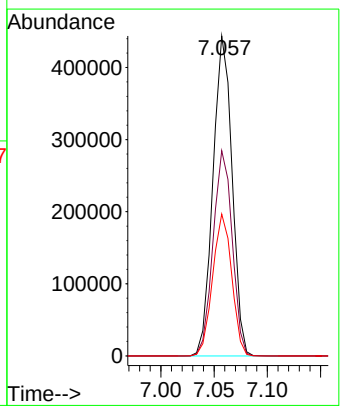
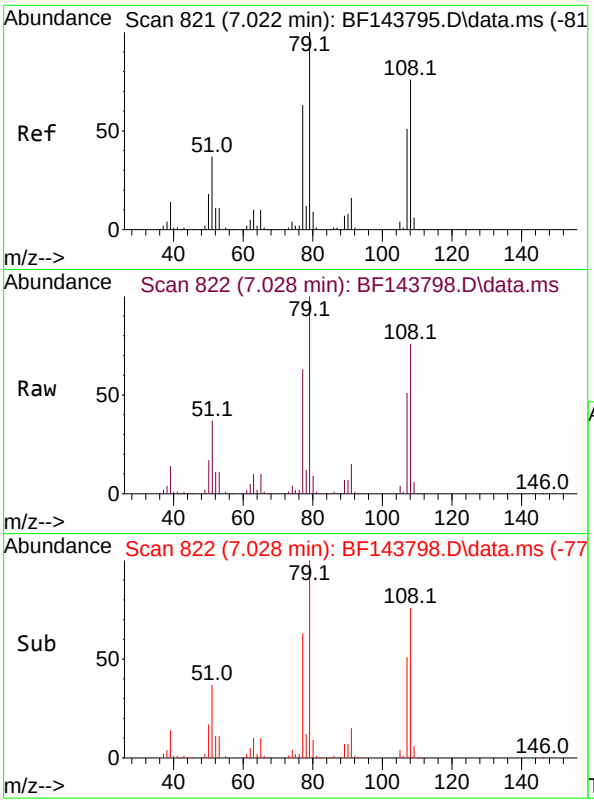


#14
1,2-Dichlorobenzene
Concen: 70.268 ng
RT: 7.057 min Scan# 827
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:146 Resp: 554647

Ion	Ratio	Lower	Upper
146	100		
148	64.1	51.1	76.7
111	44.3	34.3	51.5





#15
Benzyl Alcohol
Concen: 72.870 ng
RT: 7.028 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 79 Resp: 42743

Ion	Ratio	Lower	Upper
79	100		
108	76.4	60.5	90.7
77	63.3	50.3	75.5

Instrument :
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ClientSampleId :
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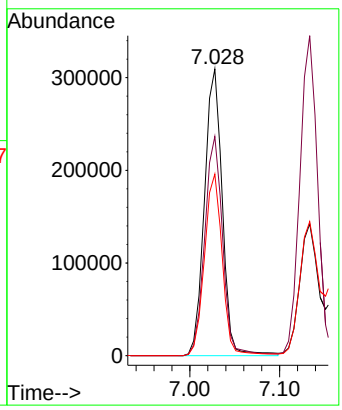
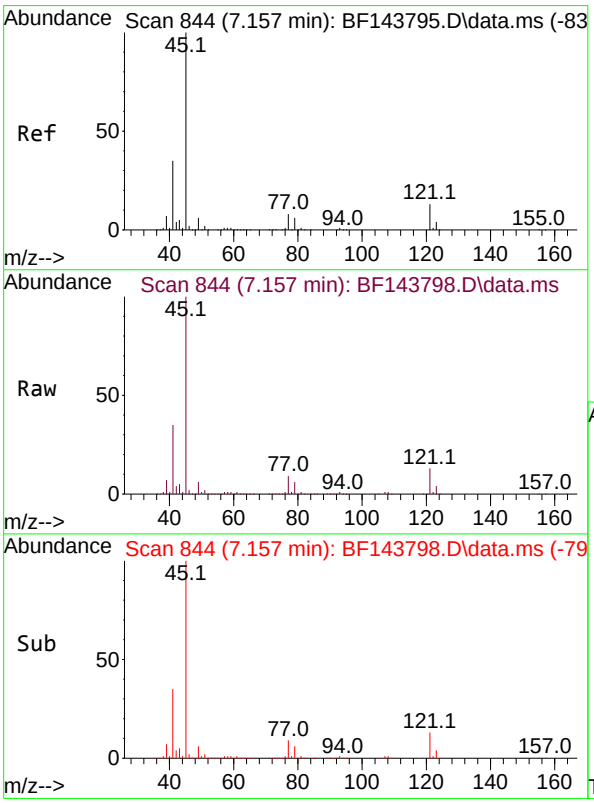
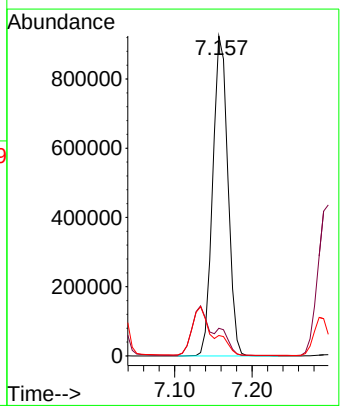


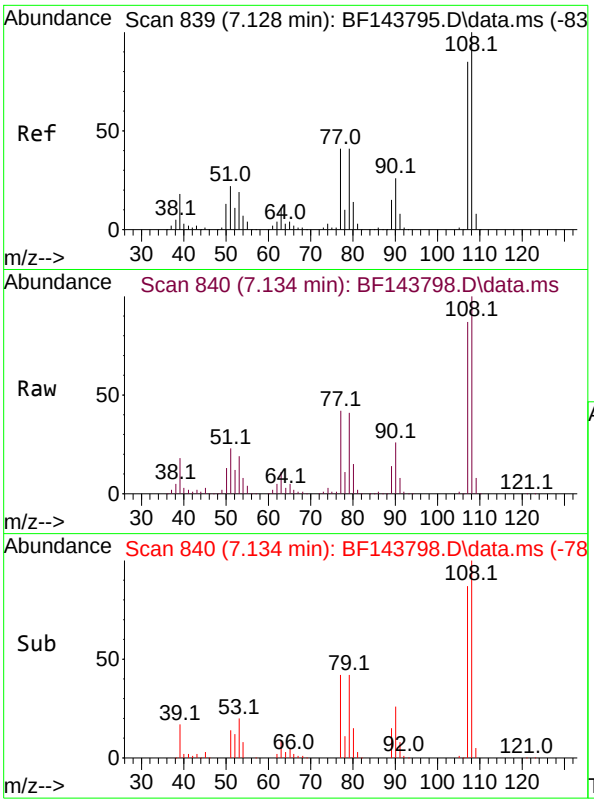


#16
2,2'-oxybis(1-Chloropropane)
Concen: 71.282 ng
RT: 7.157 min Scan# 844
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 45 Resp: 1250239

Ion	Ratio	Lower	Upper
45	100		
77	8.6	0.0	28.5
79	6.4	0.0	26.3

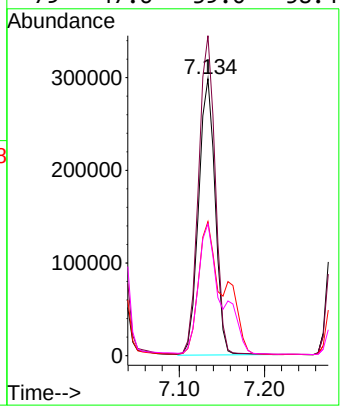




#17
2-Methylphenol
Concen: 72.168 ng
RT: 7.134 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:107 Resp: 40187

Ion	Ratio	Lower	Upper
107	100		
108	115.6	94.2	141.4
77	48.4	38.6	58.0
79	47.6	39.0	58.4



Instrument :
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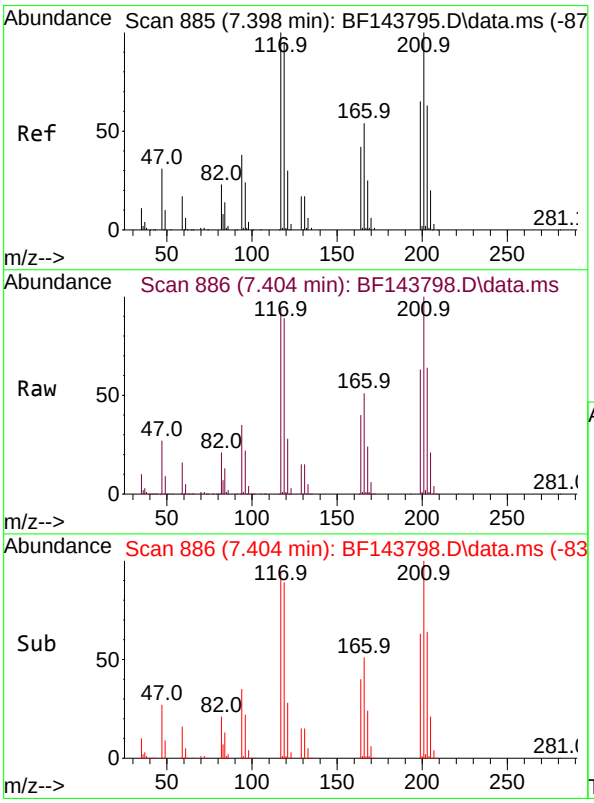
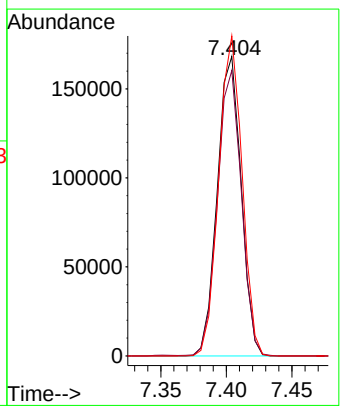
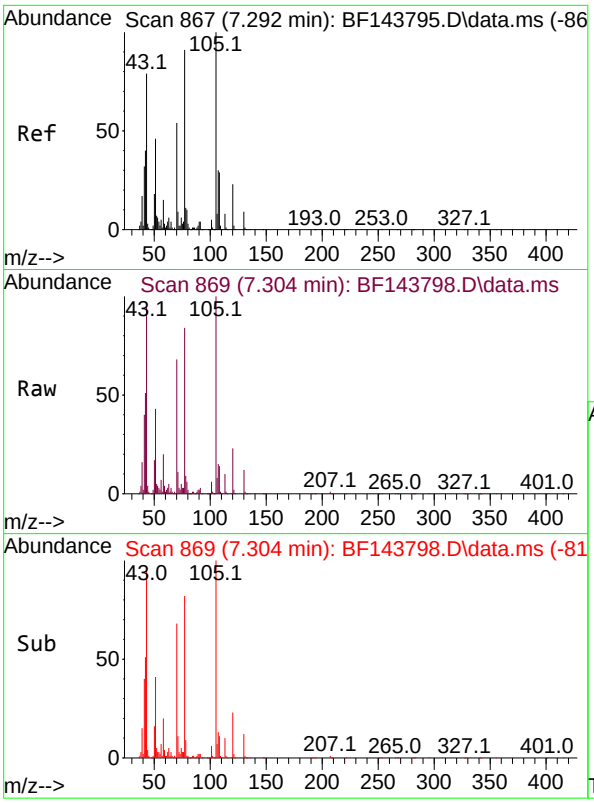


#18
Hexachloroethane
Concen: 72.909 ng
RT: 7.404 min Scan# 886
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:117 Resp: 213691

Ion	Ratio	Lower	Upper
117	100		
119	95.3	76.2	114.2
201	106.8	79.7	119.5

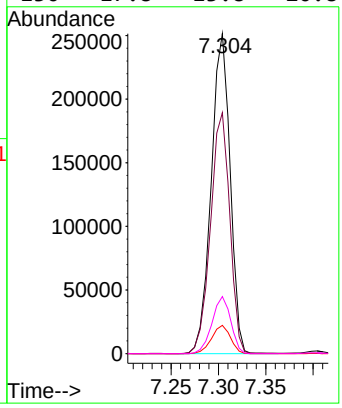




#19
n-Nitroso-di-n-propylamine
Concen: 66.866 ng
RT: 7.304 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 70 Resp: 34906

Ion	Ratio	Lower	Upper
70	100		
42	75.3	59.4	89.0
101	8.8	7.1	10.7
130	17.8	13.8	20.8



Instrument :
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ClientSampleId :
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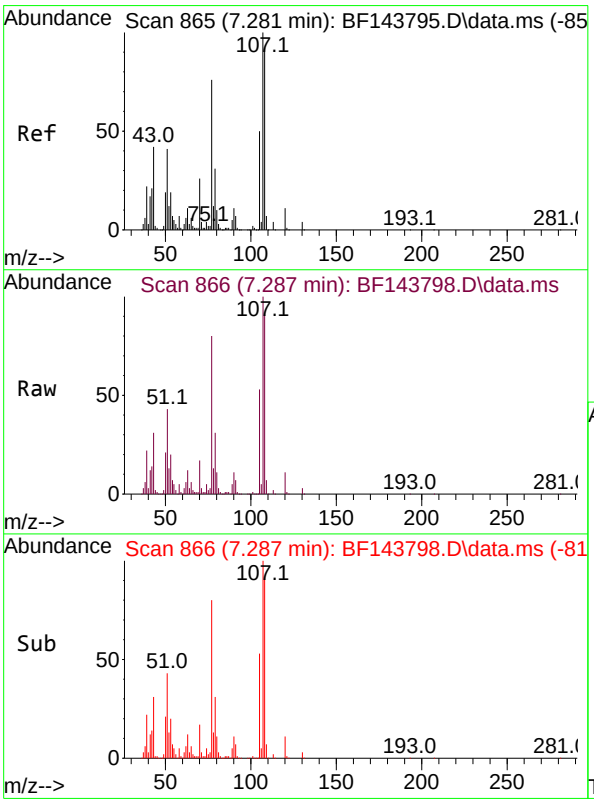
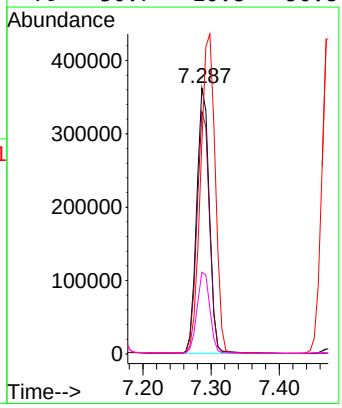
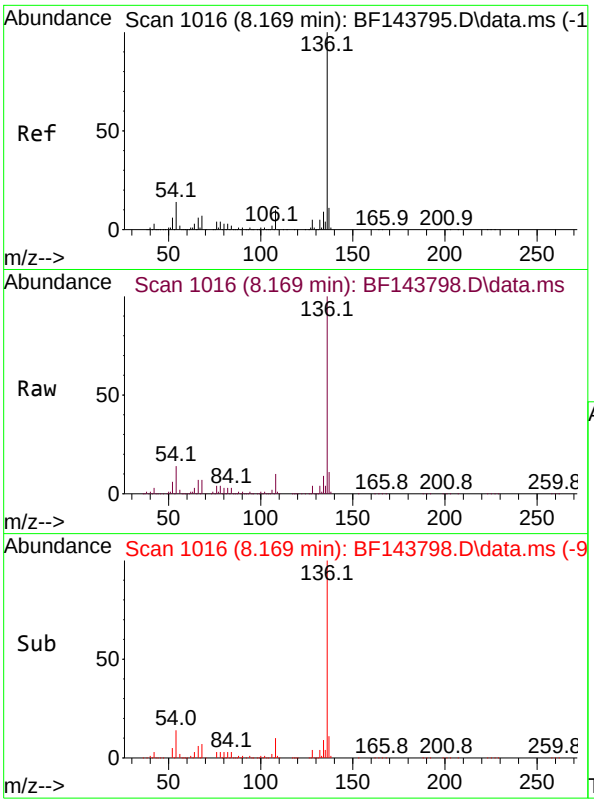


#20
3+4-Methylphenols
Concen: 68.853 ng
RT: 7.287 min Scan# 866
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:107 Resp: 466916

Ion	Ratio	Lower	Upper
107	100		
108	91.1	72.5	112.5
77	79.6	56.2	96.2
79	30.7	10.8	50.8

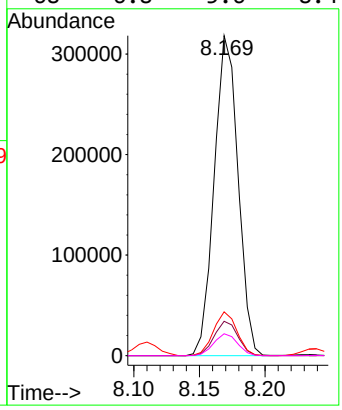




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:136 Resp: 40309

Ion	Ratio	Lower	Upper
136	100		
137	10.7	9.0	13.4
54	13.7	11.2	16.8
68	6.8	5.6	8.4



Instrument :
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ClientSampleId :
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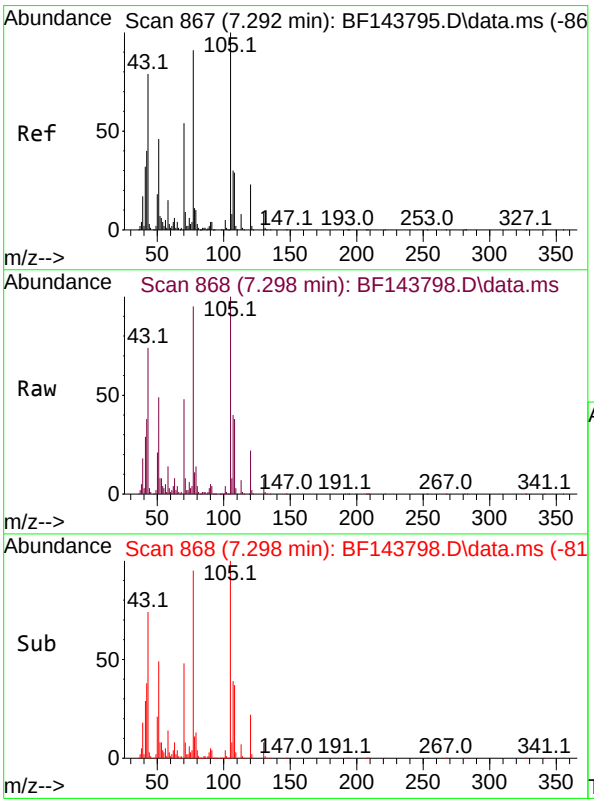
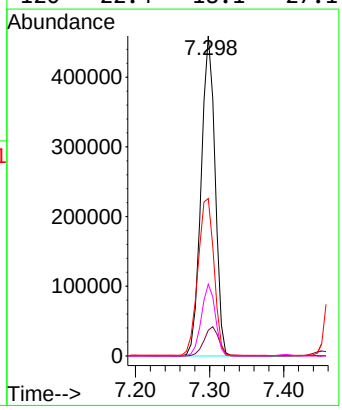
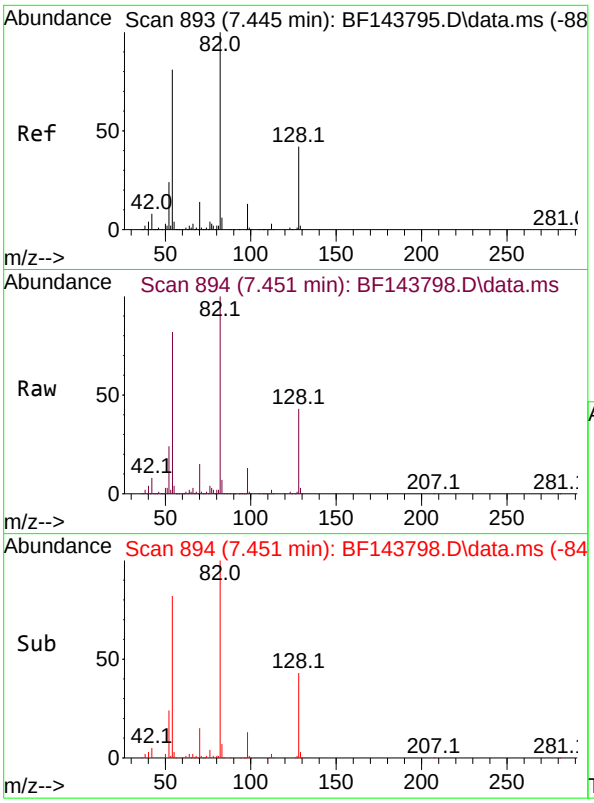


#22
Acetophenone
Concen: 67.955 ng
RT: 7.298 min Scan# 868
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:105 Resp: 601642

Ion	Ratio	Lower	Upper
105	100		
71	8.0	7.0	10.4
51	49.2	36.6	55.0
120	22.4	18.1	27.1

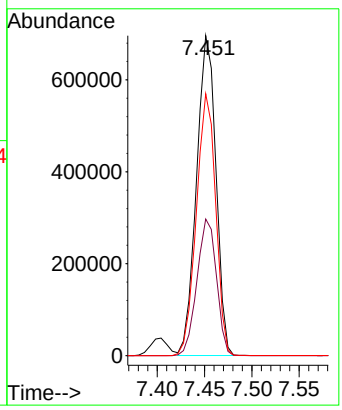




#23
Nitrobenzene-d5
Concen: 154.839 ng
RT: 7.451 min Scan# 89
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 82 Resp: 99178

Ion	Ratio	Lower	Upper
82	100		
128	42.7	33.3	49.9
54	81.8	64.2	96.4



Instrument :
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ClientSampleId :
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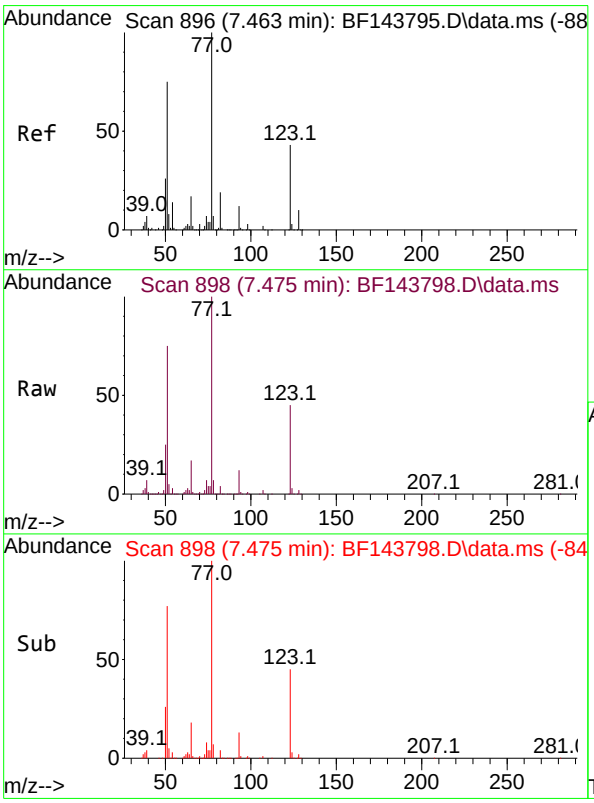
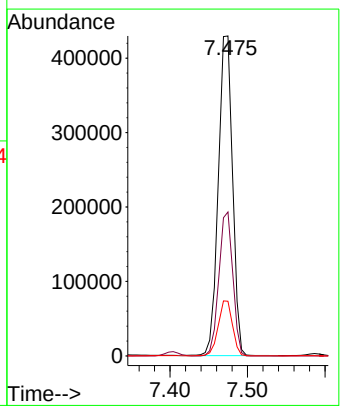
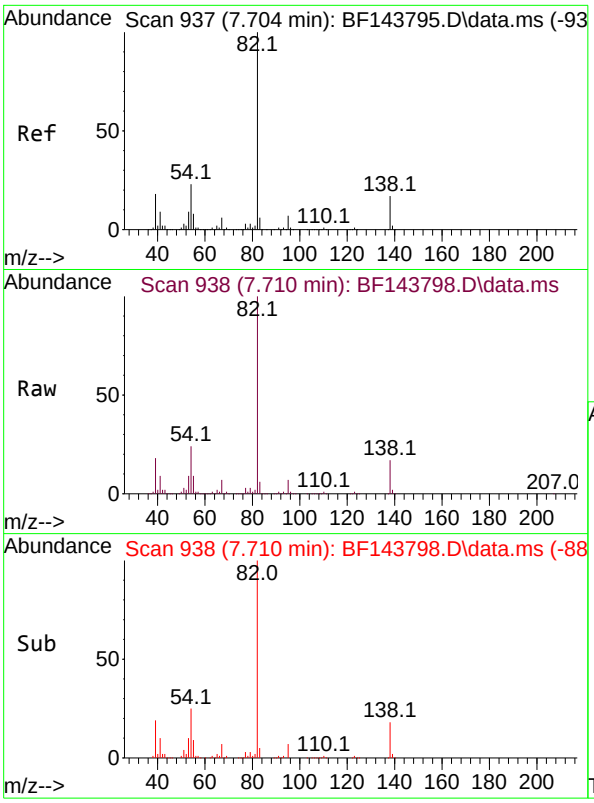


#24
Nitrobenzene
Concen: 75.655 ng
RT: 7.475 min Scan# 898
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 77 Resp: 552229

Ion	Ratio	Lower	Upper
77	100		
123	45.0	34.0	51.0
65	17.1	13.5	20.3





#25
Isophorone
Concen: 72.232 ng
RT: 7.710 min Scan# 9
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 82 Resp: 92692

Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.4	8.2
138	17.5	13.7	20.5

Instrument :
BNA_F
ClientSampleId :
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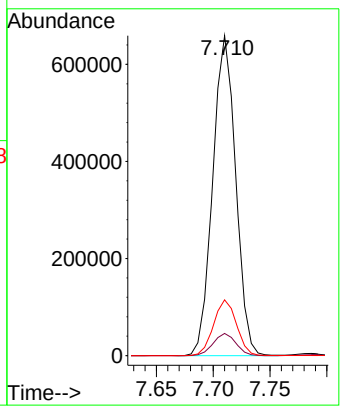
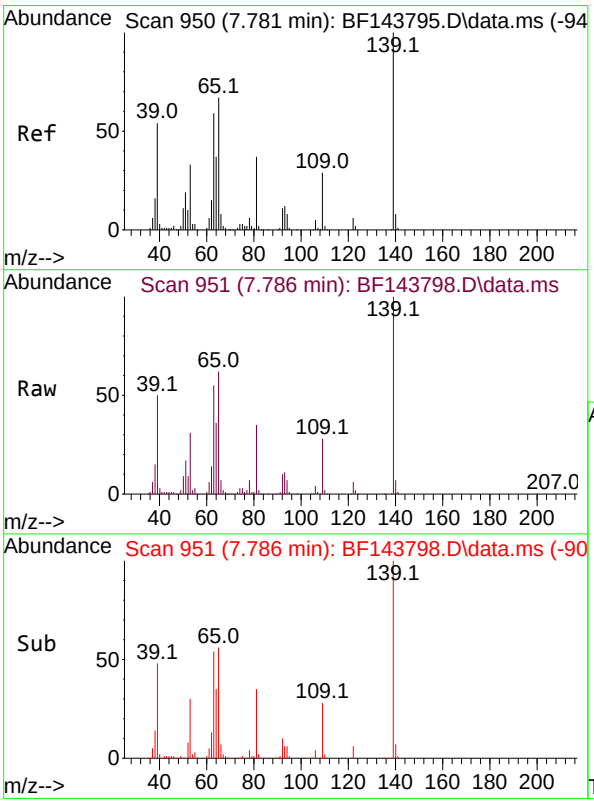
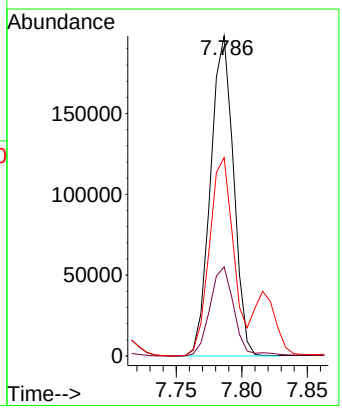


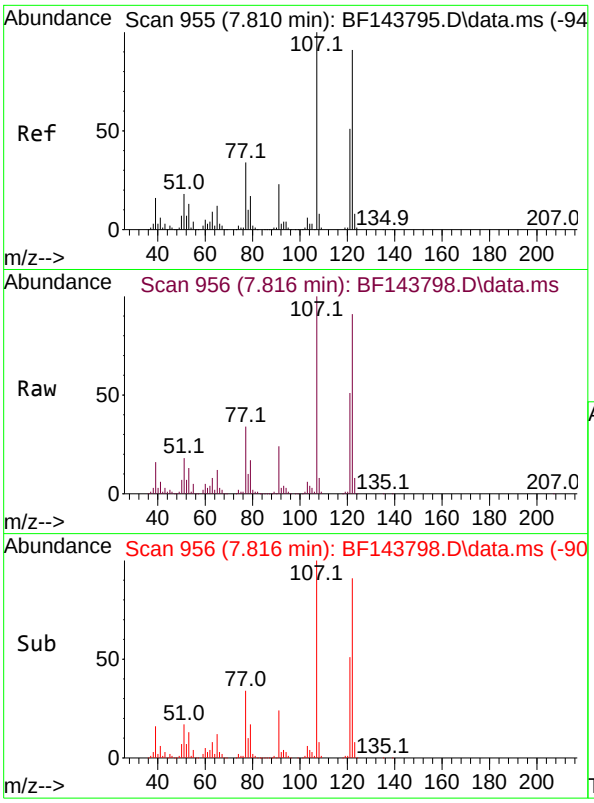


#26
2-Nitrophenol
Concen: 78.881 ng
RT: 7.786 min Scan# 951
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:139 Resp: 241928

Ion	Ratio	Lower	Upper
139	100		
109	27.8	23.3	34.9
65	61.9	53.8	80.6

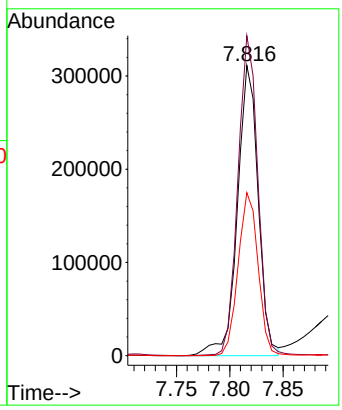




#27
2,4-Dimethylphenol
Concen: 73.324 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:122 Resp: 42056

Ion	Ratio	Lower	Upper
122	100		
107	110.3	87.5	131.3
121	56.1	44.2	66.4



Instrument :
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ClientSampleId :
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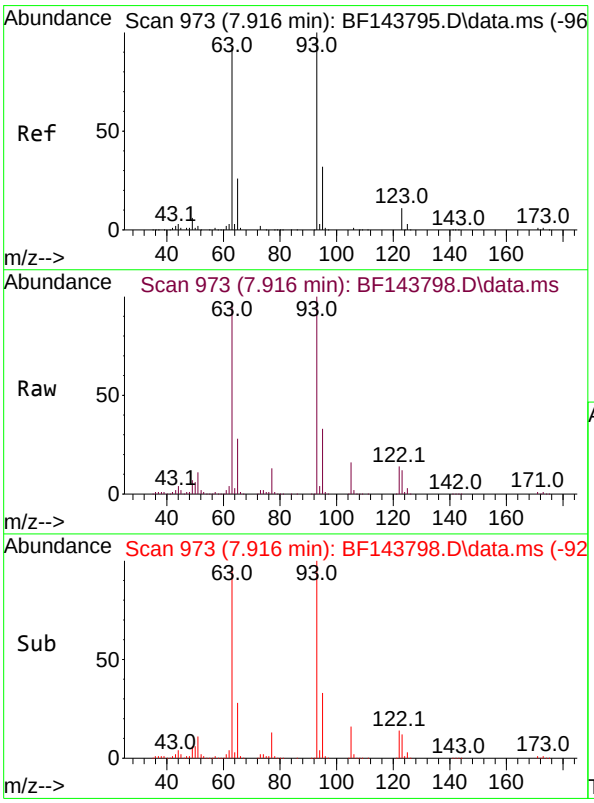
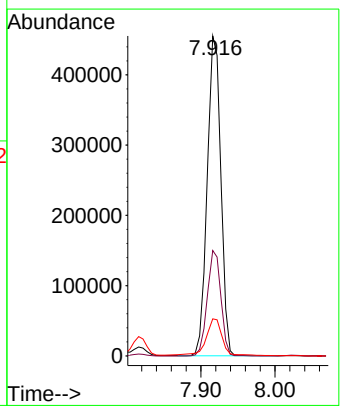
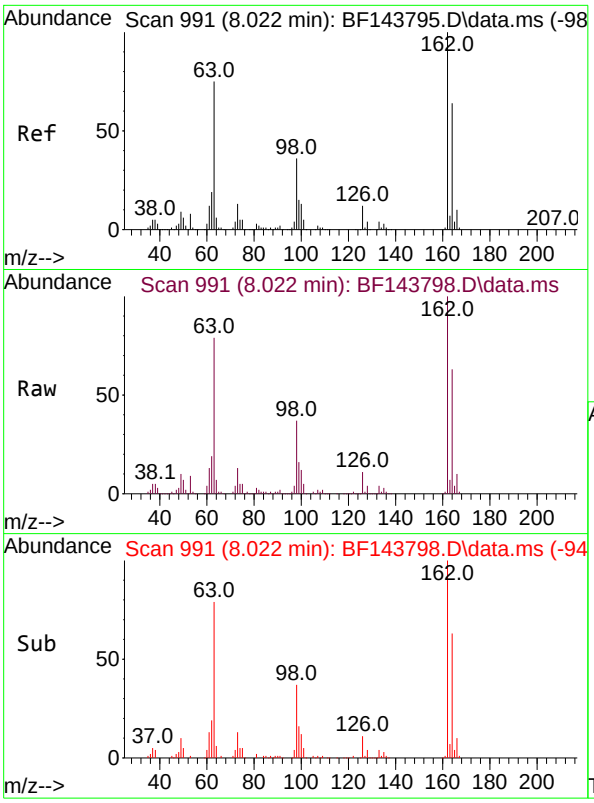


#28
bis(2-Chloroethoxy)methane
Concen: 69.544 ng
RT: 7.916 min Scan# 973
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 93 Resp: 579809

Ion	Ratio	Lower	Upper
93	100		
95	32.9	25.8	38.8
123	11.6	8.8	13.2





#29
2,4-Dichlorophenol
Concen: 74.200 ng
RT: 8.022 min Scan# 99
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:162 Resp: 418769

Ion	Ratio	Lower	Upper
162	100		
164	63.2	44.1	84.1
98	37.3	15.8	55.8

Instrument :
BNA_F
ClientSampleId :
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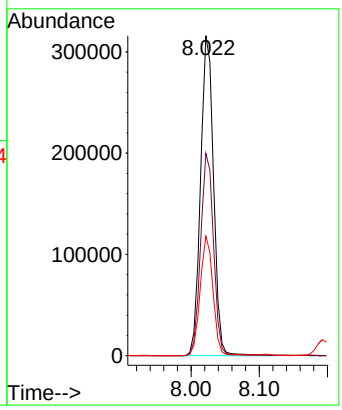
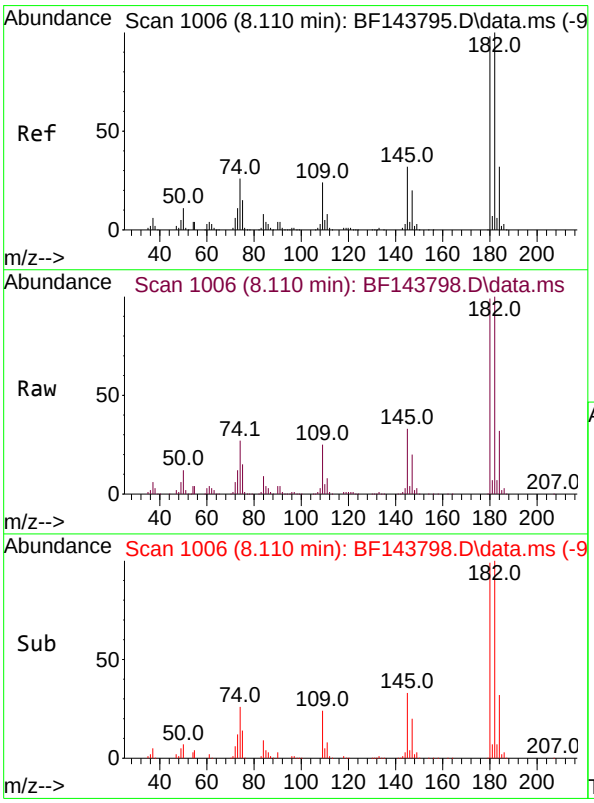
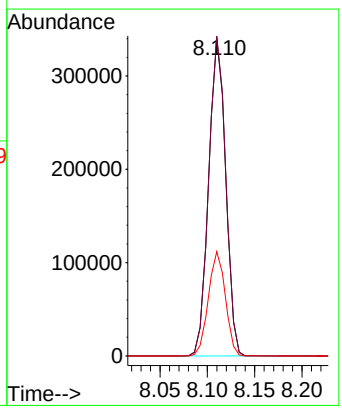


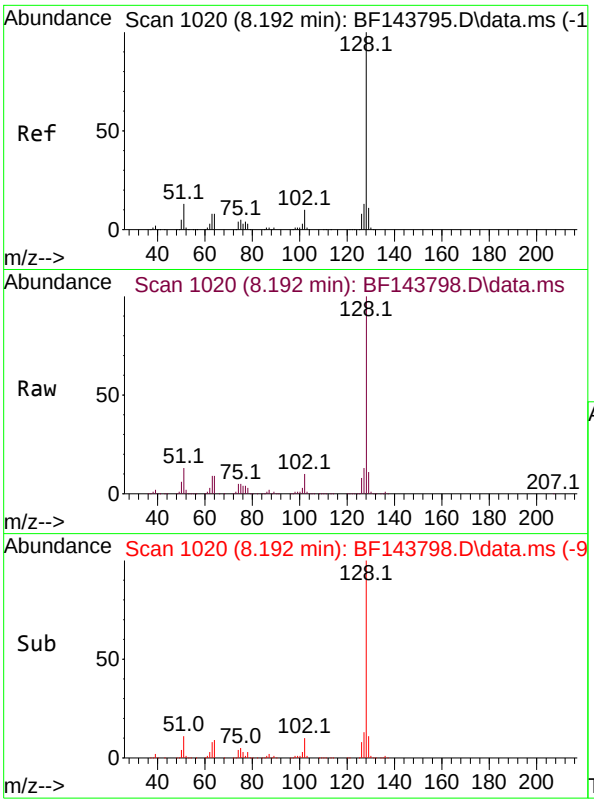


#30
1,2,4-Trichlorobenzene
Concen: 72.784 ng
RT: 8.110 min Scan# 1006
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:180 Resp: 426294

Ion	Ratio	Lower	Upper
180	100		
182	100.7	82.0	123.0
145	32.8	25.9	38.9

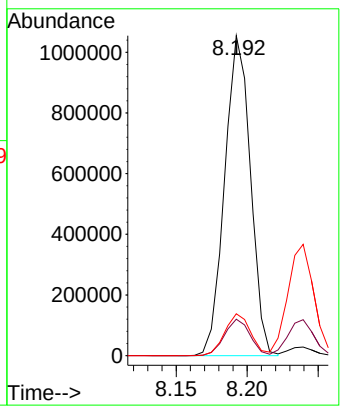




#31
Naphthalene
Concen: 68.985 ng
RT: 8.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:128 Resp: 133119

Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.8	13.2
127	13.1	10.2	15.4



Instrument :
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ClientSampleId :
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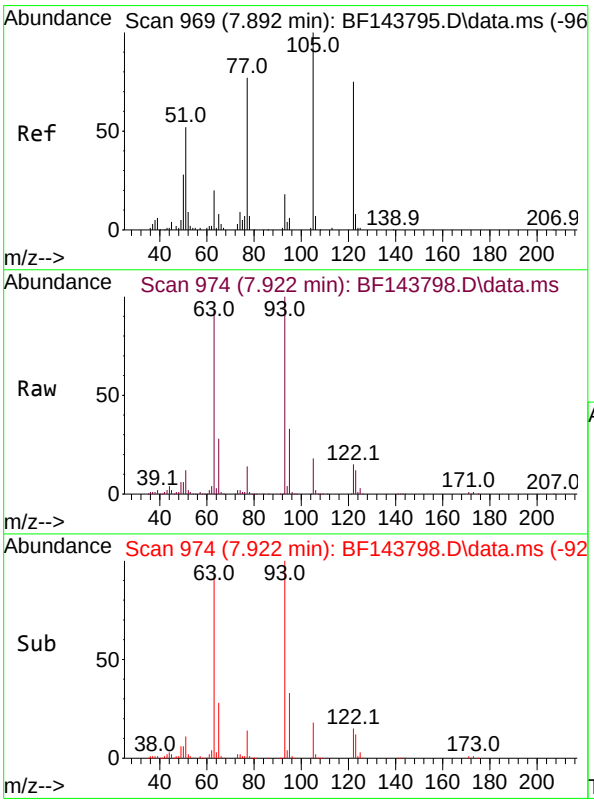
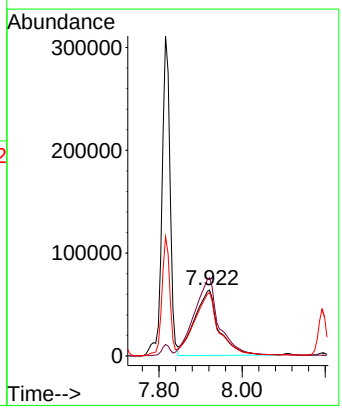
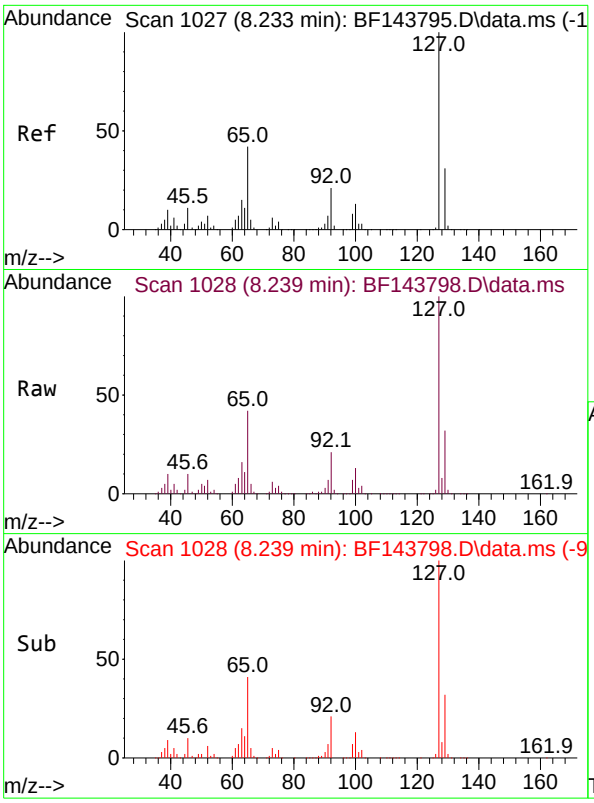


#32
Benzoic acid
Concen: 93.800 ng
RT: 7.922 min Scan# 974
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:122 Resp: 259578

Ion	Ratio	Lower	Upper
122	100		
105	118.7	103.7	143.7
77	96.1	78.8	118.8

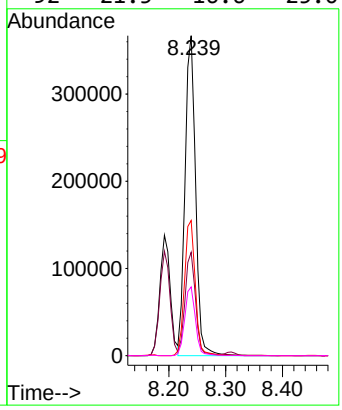




#33
4-Chloroaniline
Concen: 70.124 ng
RT: 8.239 min Scan# 10
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:127 Resp: 47552

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.4	38.2
65	42.2	33.4	50.2
92	21.5	16.6	25.0



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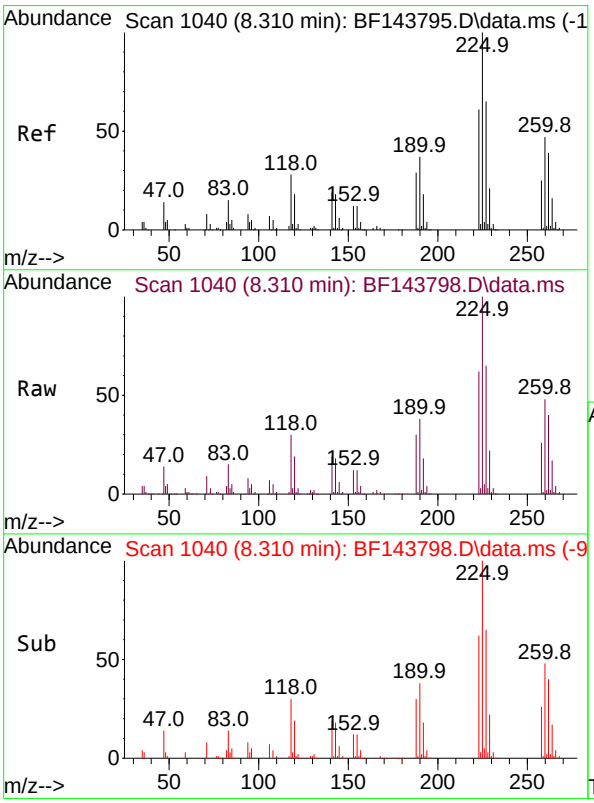
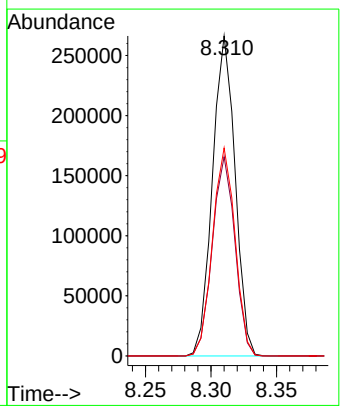
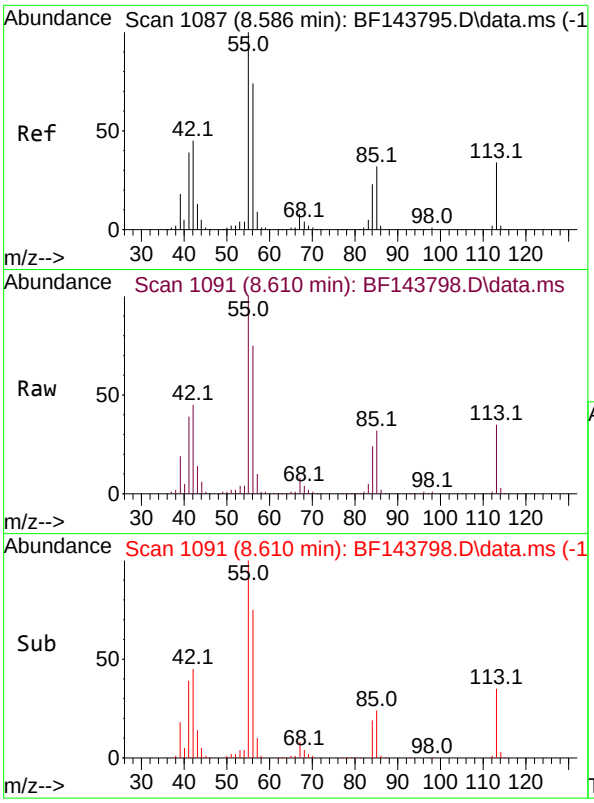


#34
Hexachlorobutadiene
Concen: 73.390 ng
RT: 8.310 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:225 Resp: 320435

Ion	Ratio	Lower	Upper
225	100		
223	62.2	48.6	72.8
227	65.0	51.9	77.9

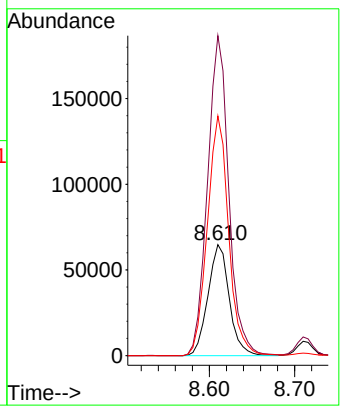




#35
Caprolactam
Concen: 78.007 ng
RT: 8.610 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:113 Resp: 11252

Ion	Ratio	Lower	Upper
113	100		
55	288.2	271.7	311.7
56	215.8	194.5	234.5



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ClientSampleId :
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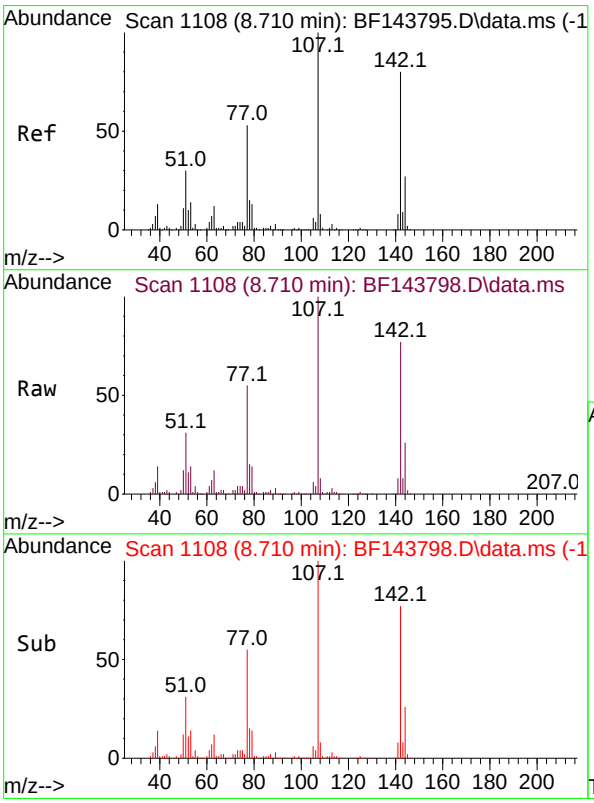
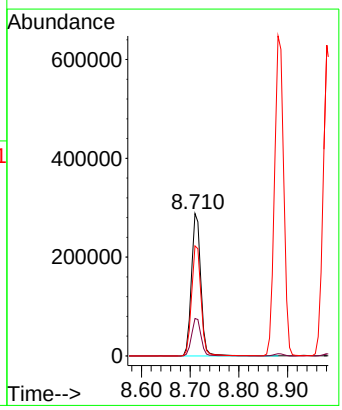
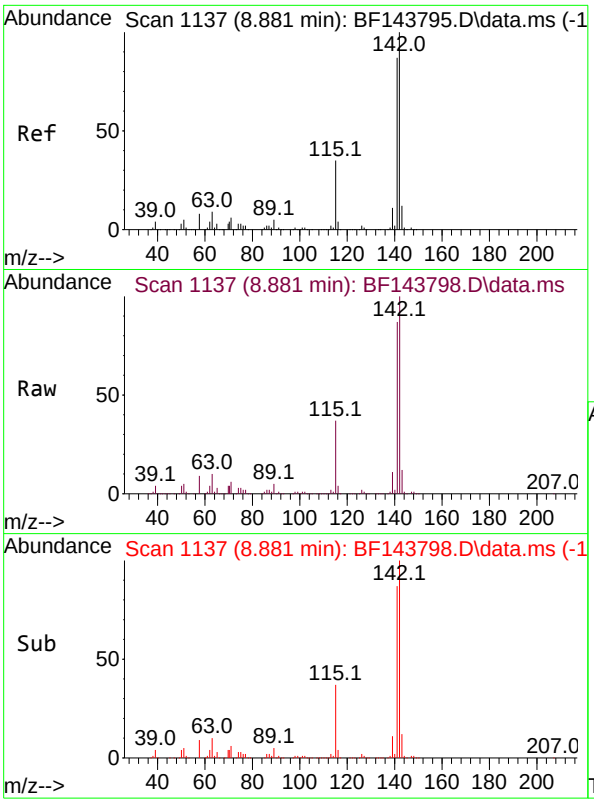


#36
4-Chloro-3-methylphenol
Concen: 72.398 ng
RT: 8.710 min Scan# 1108
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:107 Resp: 383212

Ion	Ratio	Lower	Upper
107	100		
144	26.3	21.8	32.8
142	77.3	63.6	95.4

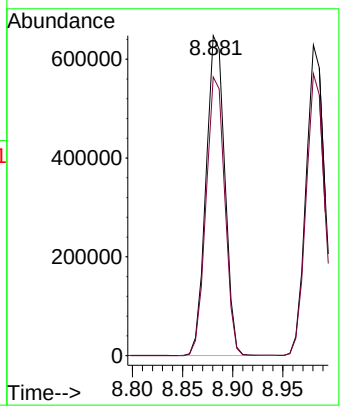




#37
2-Methylnaphthalene
Concen: 68.255 ng
RT: 8.881 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:142 Resp: 83984

Ion	Ratio	Lower	Upper
142	100		
141	87.1	69.4	104.0



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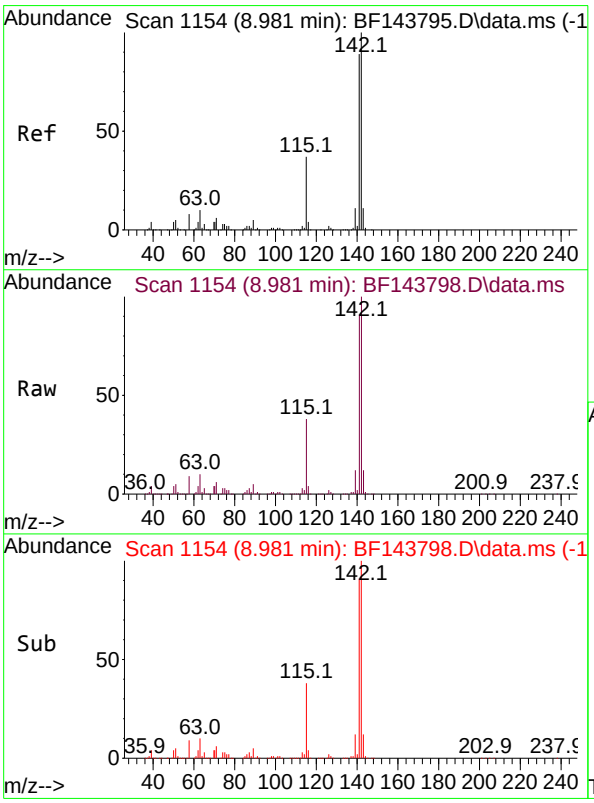
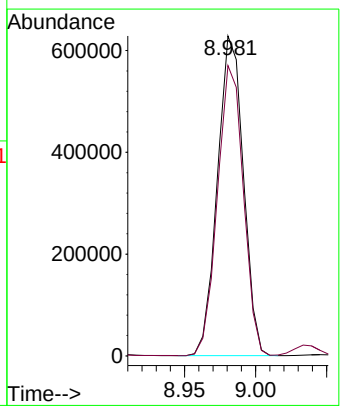
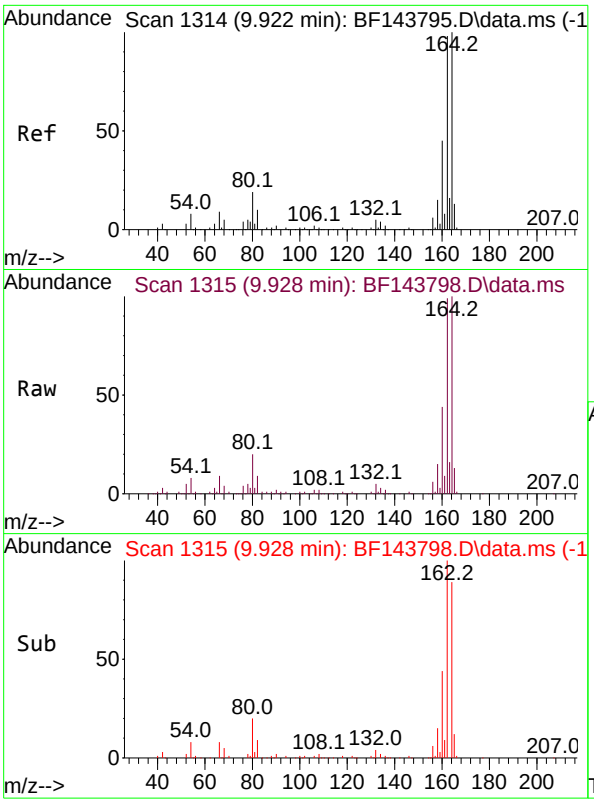


#38
1-Methylnaphthalene
Concen: 67.842 ng
RT: 8.981 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:142 Resp: 799000

Ion	Ratio	Lower	Upper
142	100		
141	90.7	71.1	106.7

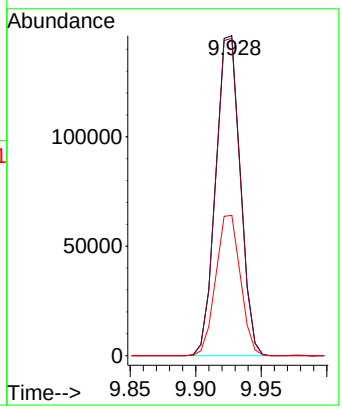




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.001 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:164 Resp: 19104

Ion	Ratio	Lower	Upper
164	100		
162	99.1	78.8	118.2
160	43.8	35.8	53.6



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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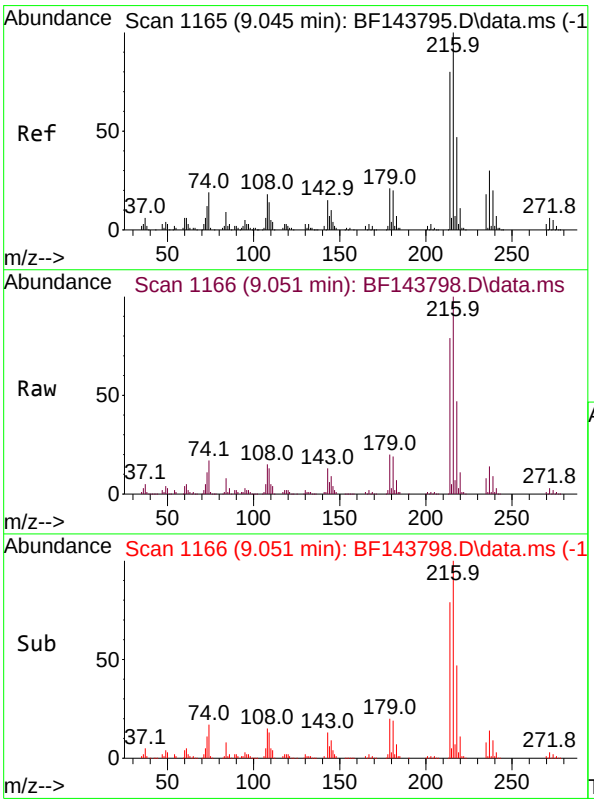
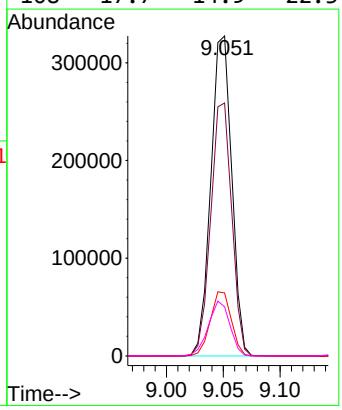
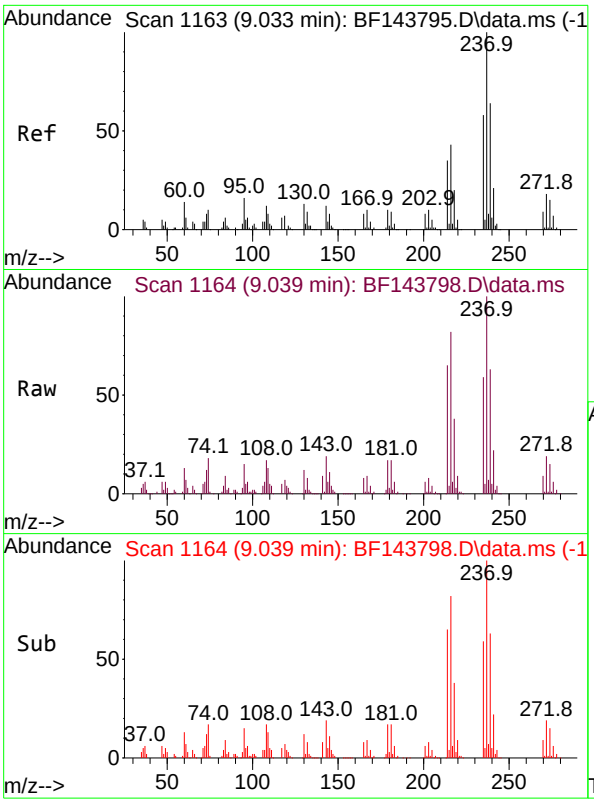


#40
1,2,4,5-Tetrachlorobenzene
Concen: 72.811 ng
RT: 9.051 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:216 Resp: 419788

Ion	Ratio	Lower	Upper
216	100		
214	79.3	63.7	95.5
179	20.0	16.5	24.7
108	17.7	14.9	22.3

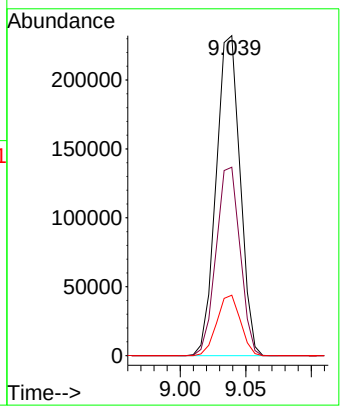




#41
Hexachlorocyclopentadiene
Concen: 80.945 ng
RT: 9.039 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:237 Resp: 29577

Ion	Ratio	Lower	Upper
237	100		
235	58.9	38.1	78.1
272	18.9	0.0	37.9



Instrument :
BNA_F
ClientSampleId :
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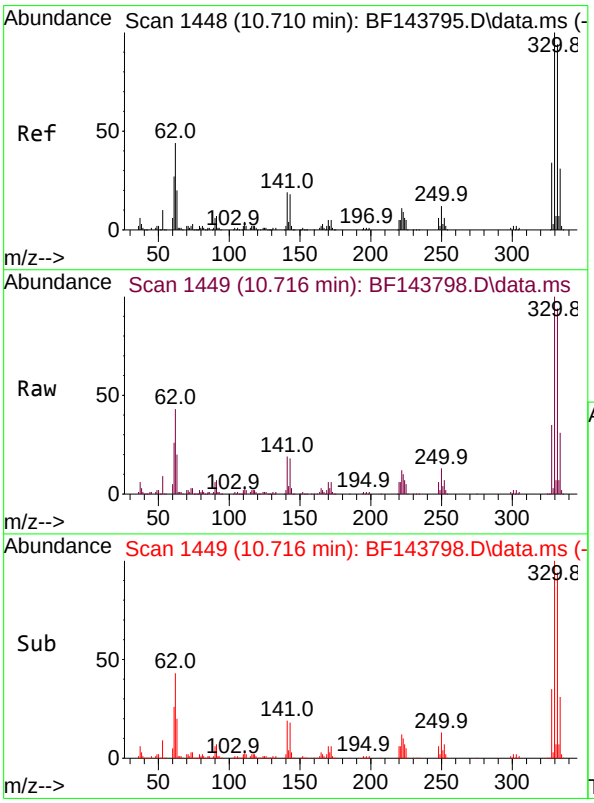
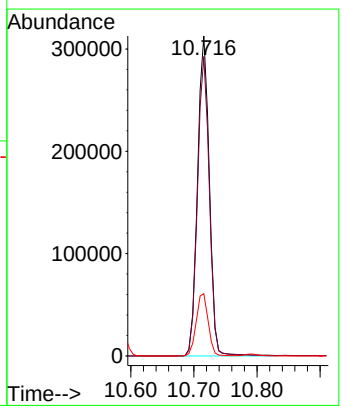
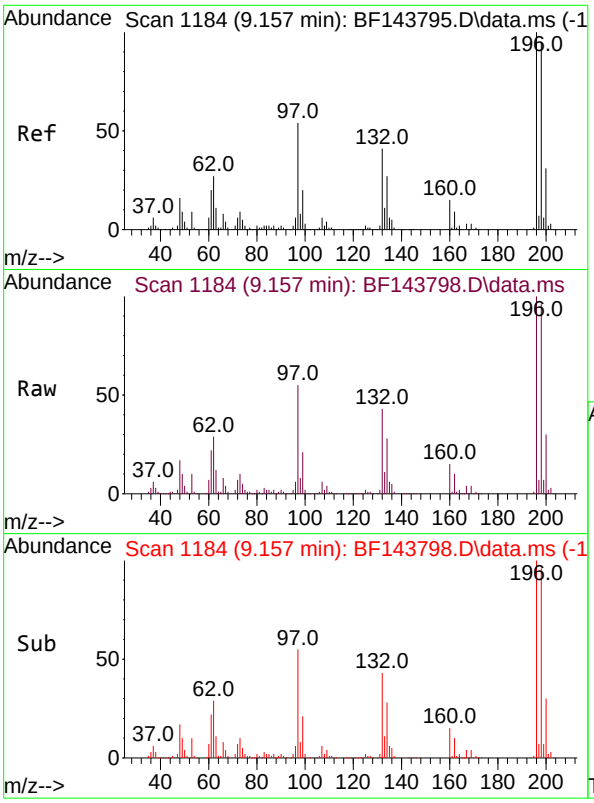


#42
2,4,6-Tribromophenol
Concen: 149.081 ng
RT: 10.716 min Scan# 1449
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:330 Resp: 406469

Ion	Ratio	Lower	Upper
330	100		
332	94.3	74.7	112.1
141	19.7	14.3	21.5

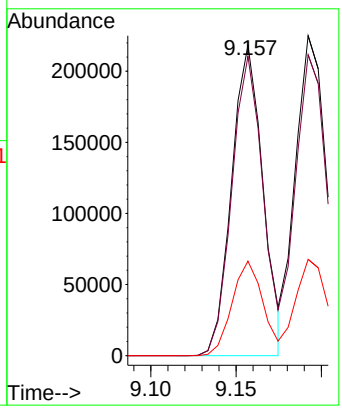




#43
2,4,6-Trichlorophenol
Concen: 77.279 ng
RT: 9.157 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:196 Resp: 27898

Ion	Ratio	Lower	Upper
196	100		
198	96.3	76.2	114.2
200	30.4	24.7	37.1



Instrument :
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ClientSampleId :
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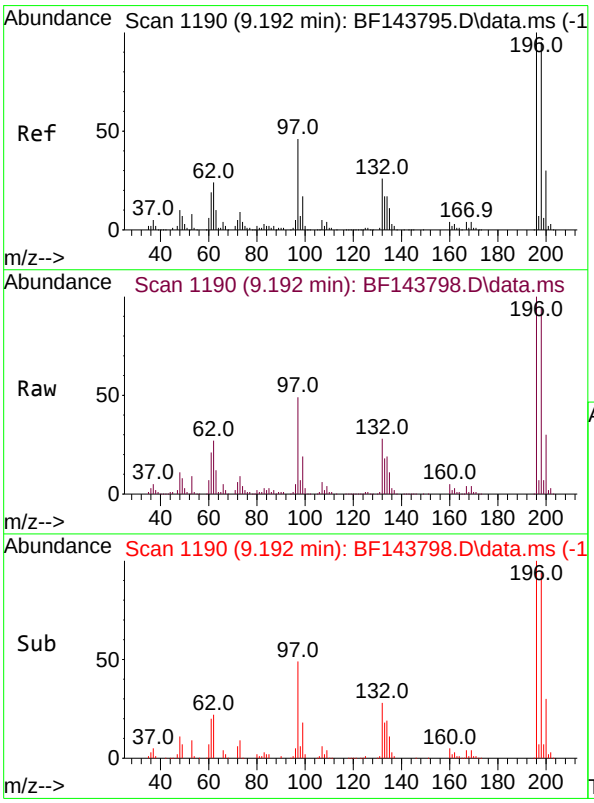
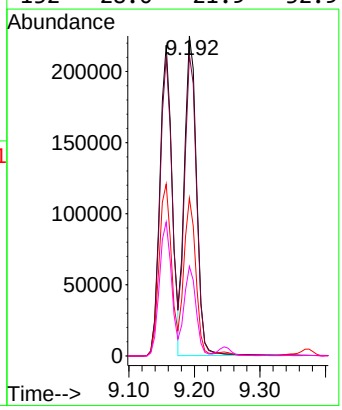
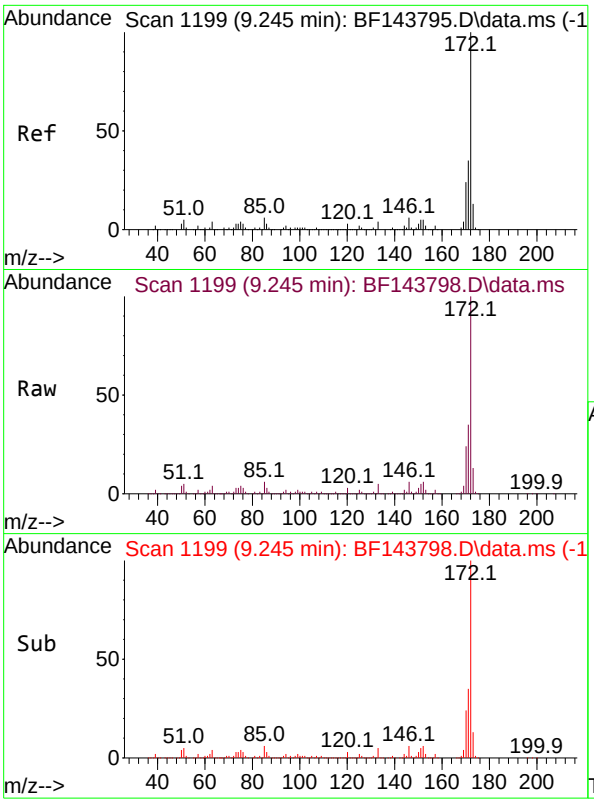


#44
2,4,5-Trichlorophenol
Concen: 77.179 ng
RT: 9.192 min Scan# 1190
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:196 Resp: 291440

Ion	Ratio	Lower	Upper
196	100		
198	94.0	75.9	113.9
97	49.3	38.3	57.5
132	28.0	21.9	32.9

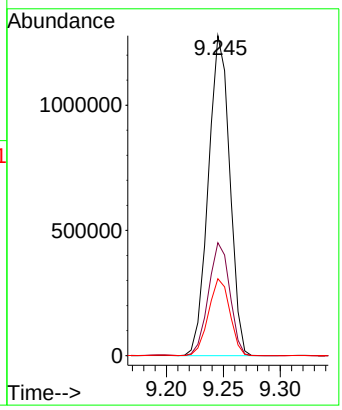




#45
2-Fluorobiphenyl
Concen: 129.595 ng
RT: 9.245 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:172 Resp: 167540

Ion	Ratio	Lower	Upper
172	100		
171	35.3	27.9	41.9
170	24.0	19.1	28.7



Instrument :
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ClientSampleId :
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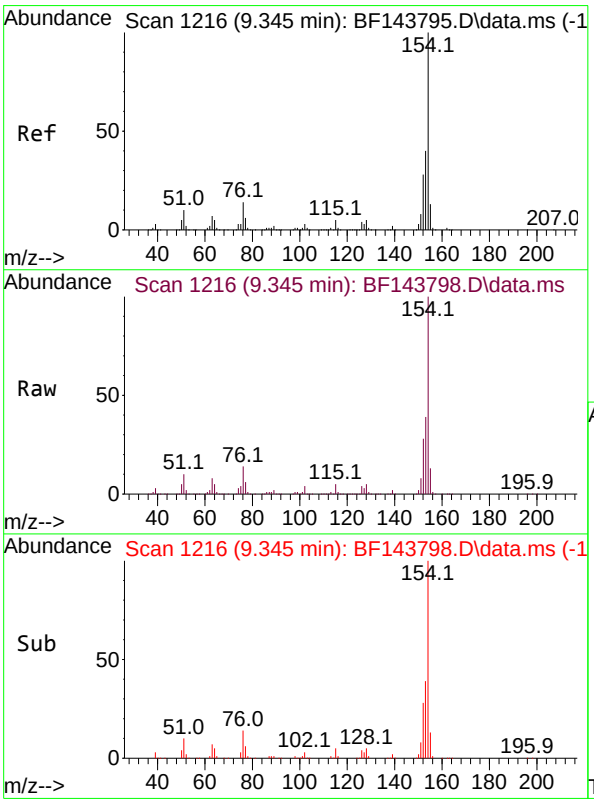
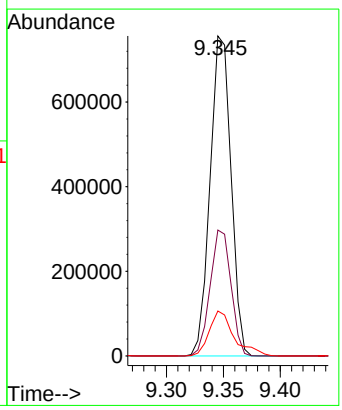
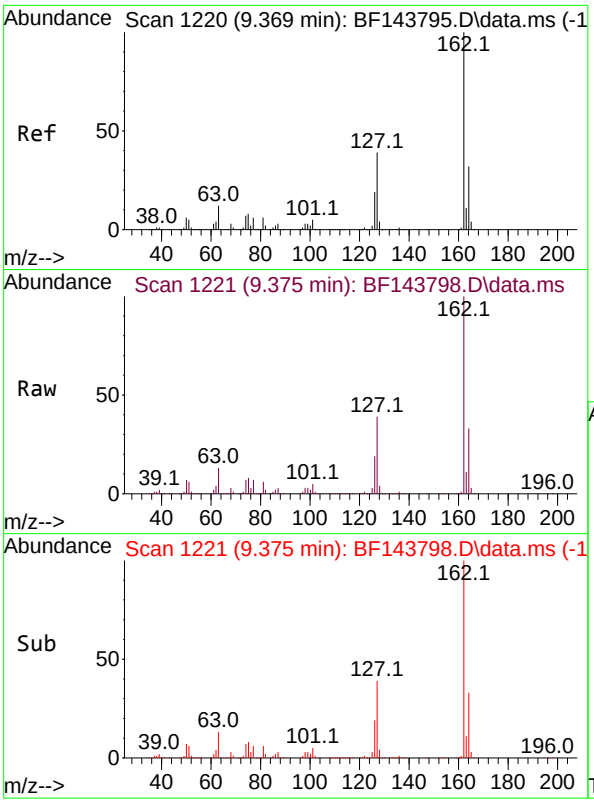


#46
1,1'-Biphenyl
Concen: 70.127 ng
RT: 9.345 min Scan# 1216
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:154 Resp: 969811

Ion	Ratio	Lower	Upper
154	100		
153	39.3	19.7	59.7
76	14.0	0.0	33.8

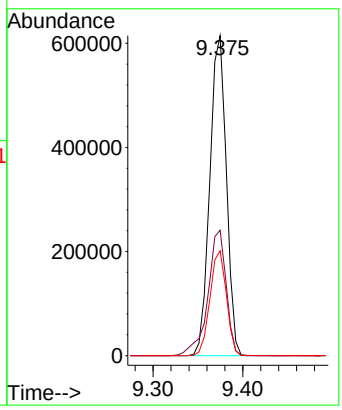




#47
2-Chloronaphthalene
Concen: 71.150 ng
RT: 9.375 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:162 Resp: 79204

Ion	Ratio	Lower	Upper
162	100		
127	39.2	31.5	47.3
164	32.8	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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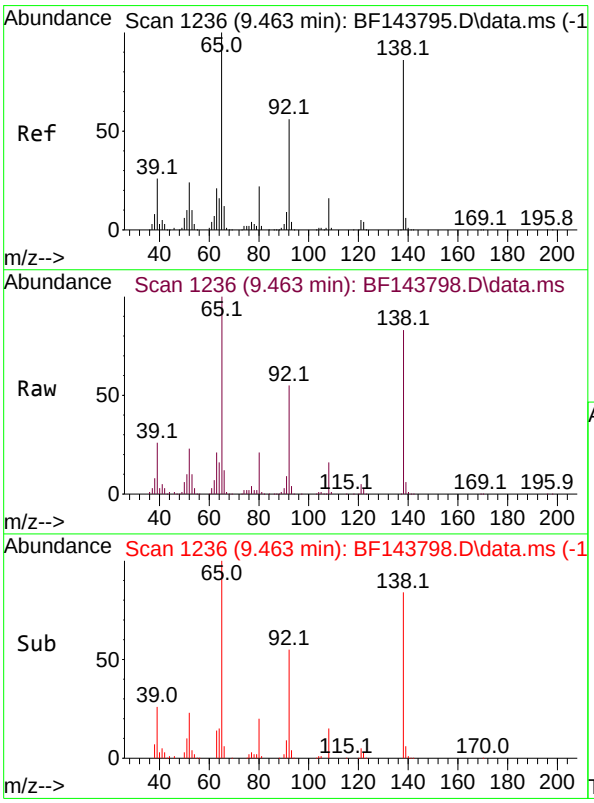
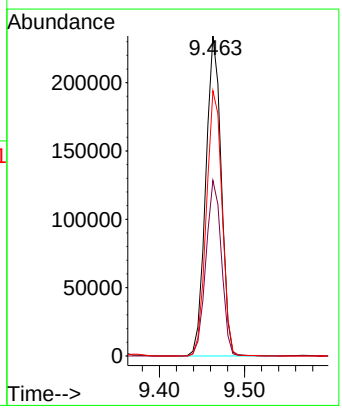
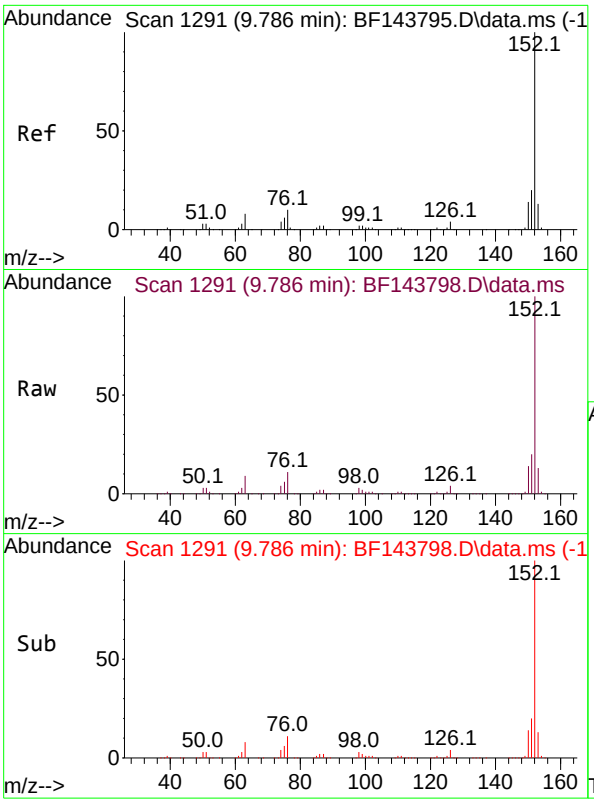


#48
2-Nitroaniline
Concen: 87.616 ng
RT: 9.463 min Scan# 1236
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 65 Resp: 294783

Ion	Ratio	Lower	Upper
65	100		
92	54.8	44.9	67.3
138	82.9	69.0	103.4

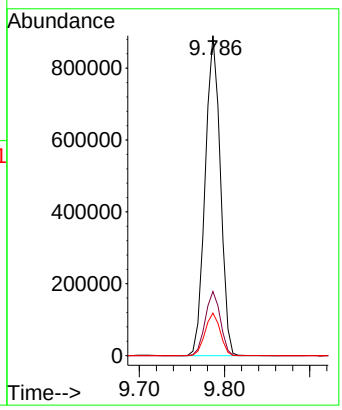




#49
Acenaphthylene
Concen: 71.813 ng
RT: 9.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:152 Resp: 110052

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.7	23.5
153	13.3	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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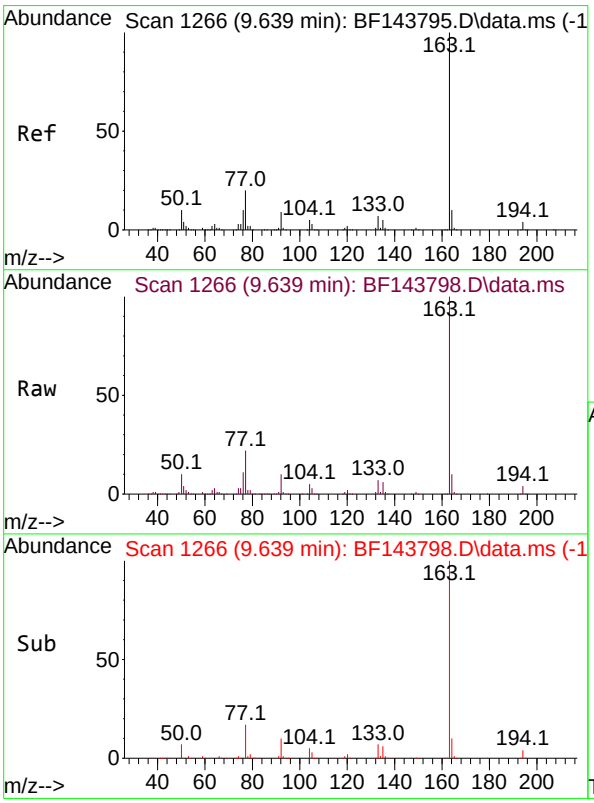
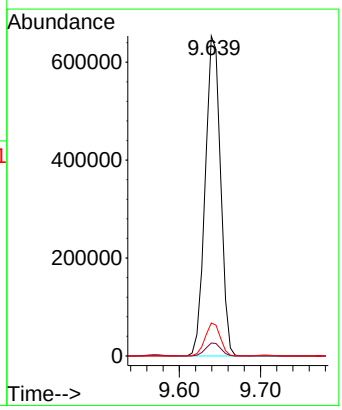
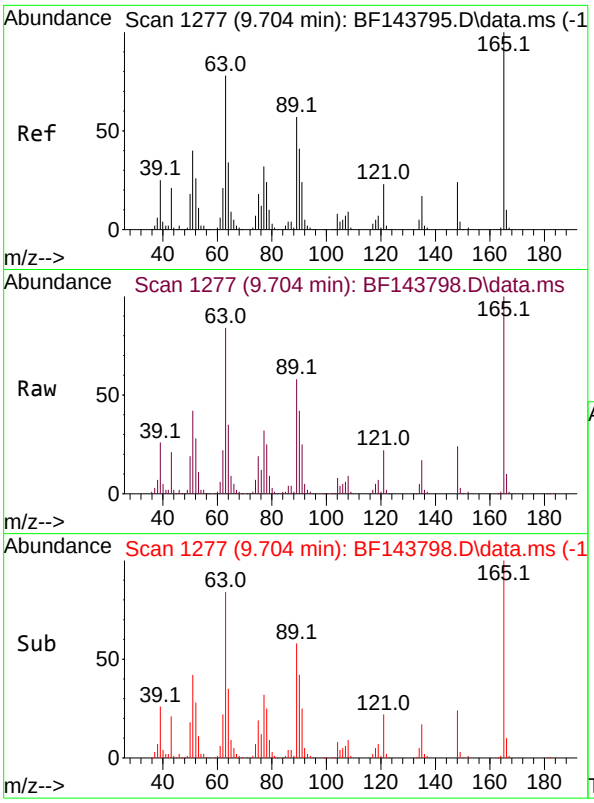


#50
Dimethylphthalate
Concen: 73.652 ng
RT: 9.639 min Scan# 1266
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:163 Resp: 857631

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.3	8.2	12.2





#51
2,6-Dinitrotoluene
Concen: 88.265 ng
RT: 9.704 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:165 Resp: 16886

Ion	Ratio	Lower	Upper
165	100		
63	83.5	62.6	94.0
89	57.6	45.2	67.8

Instrument :
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ClientSampleId :
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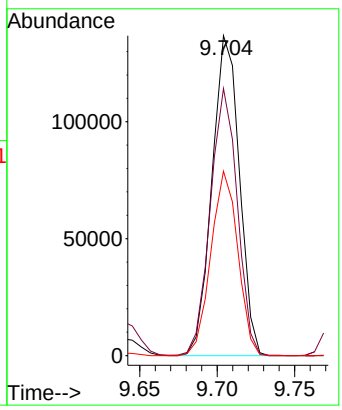
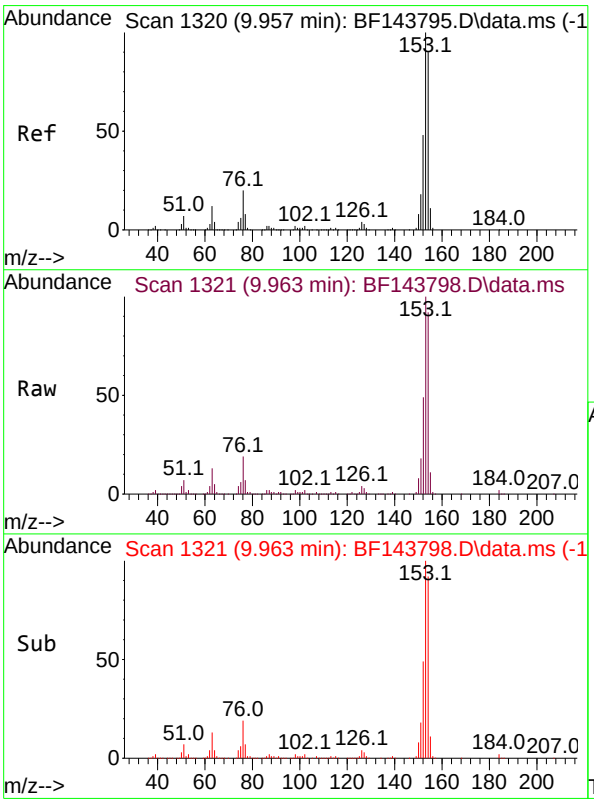
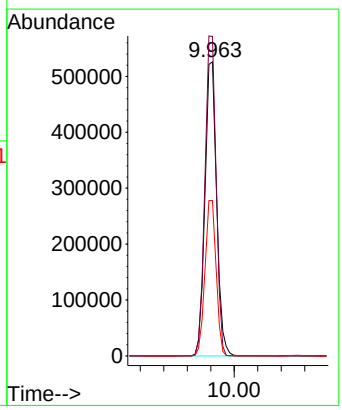


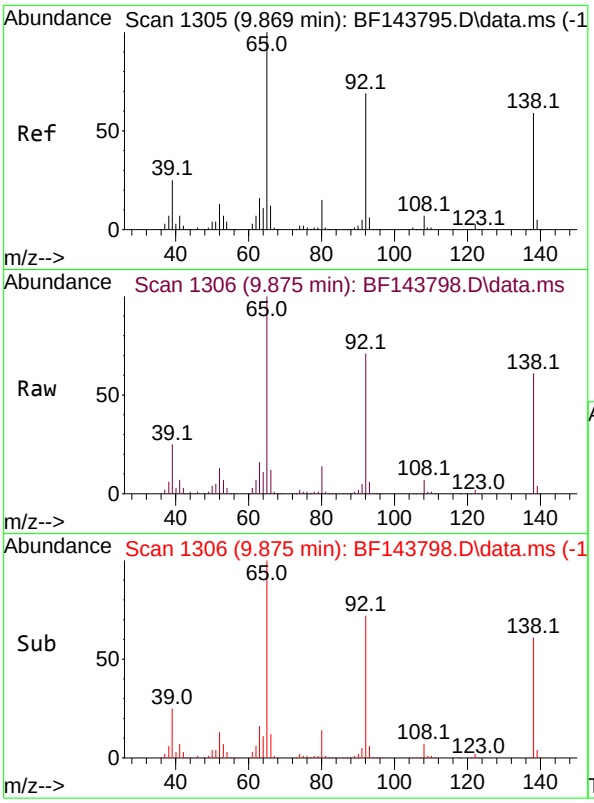


#52
Acenaphthene
Concen: 72.181 ng
RT: 9.963 min Scan# 1321
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:154 Resp: 727931

Ion	Ratio	Lower	Upper
154	100		
153	108.6	88.7	133.1
152	52.8	42.7	64.1





#53
3-Nitroaniline
Concen: 87.079 ng
RT: 9.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:138 Resp: 20193

Ion	Ratio	Lower	Upper
138	100		
108	11.0	9.9	14.9
92	117.5	93.5	140.3

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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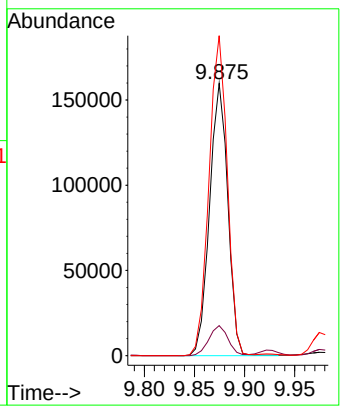
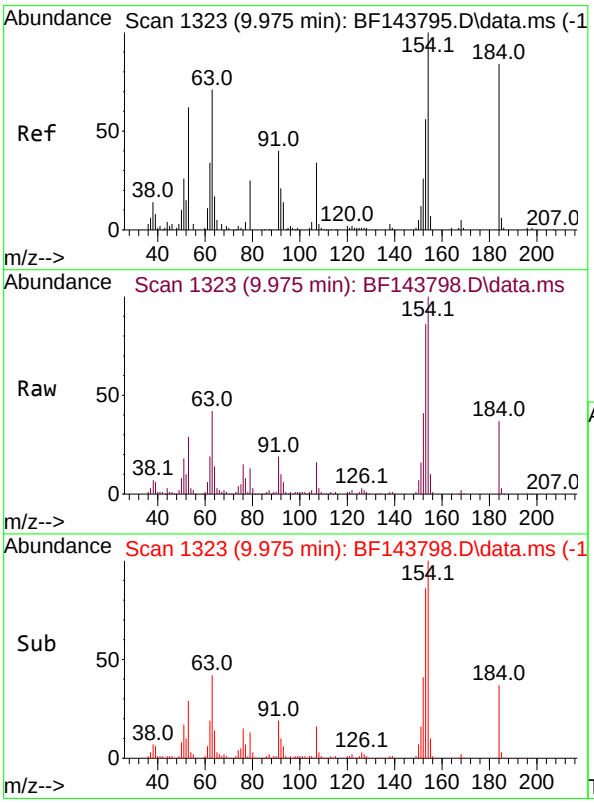
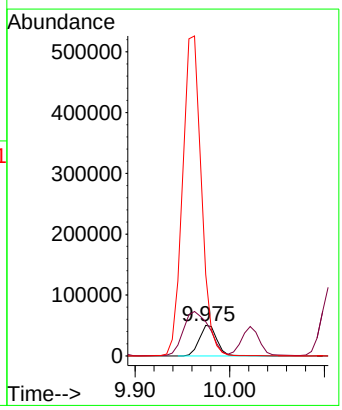


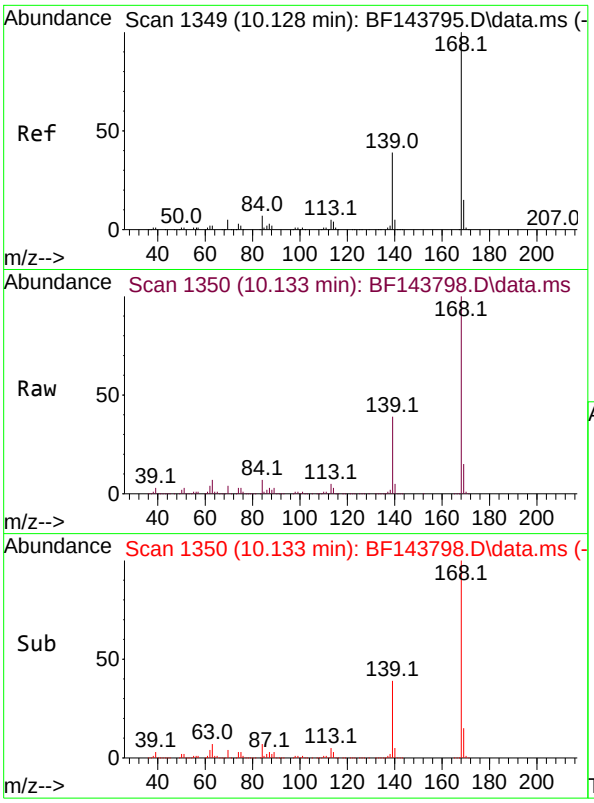


#54
2,4-Dinitrophenol
Concen: 79.097 ng
RT: 9.975 min Scan# 1323
Delta R.T. -0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:184 Resp: 64545

Ion	Ratio	Lower	Upper
184	100		
63	112.2	84.6	127.0
154	267.8	199.3	298.9

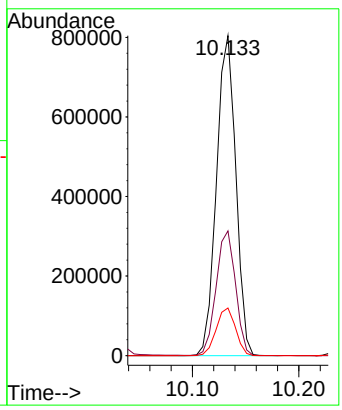




#55
Dibenzofuran
Concen: 71.219 ng
RT: 10.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:168 Resp: 101563

Ion	Ratio	Lower	Upper
168	100		
139	39.0	31.0	46.6
169	14.9	11.9	17.9



Instrument :
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ClientSampleId :
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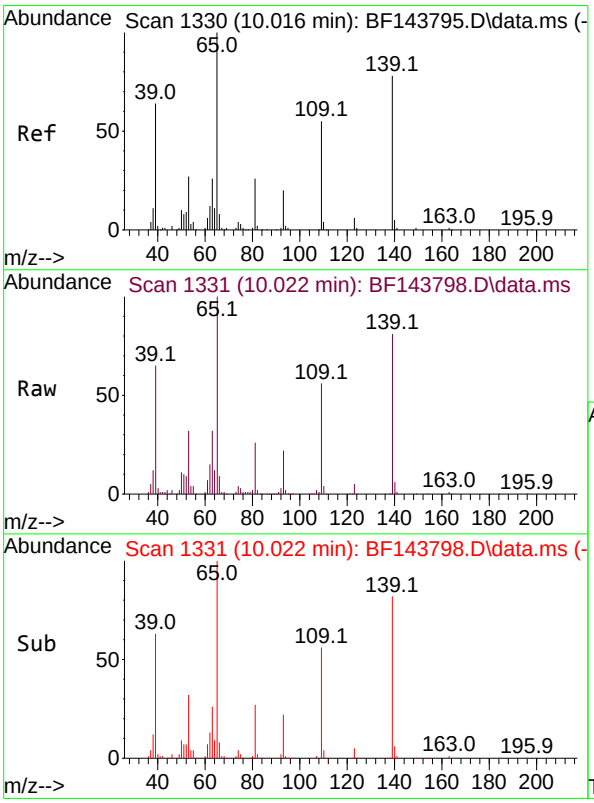
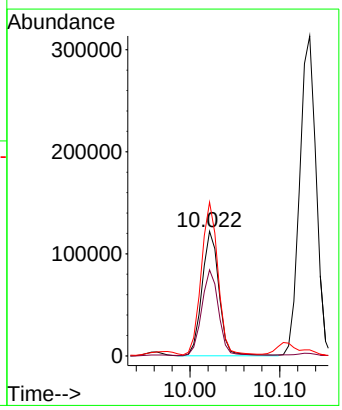
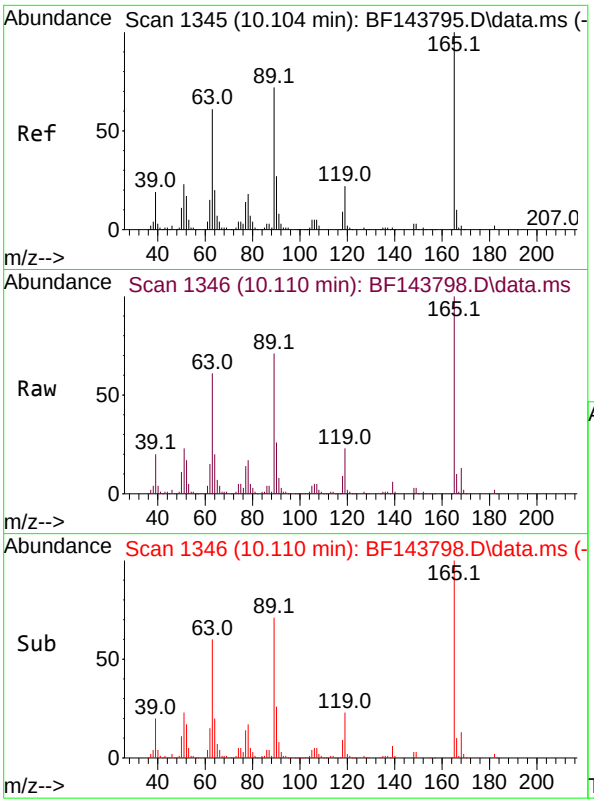


#56
4-Nitrophenol
Concen: 85.785 ng
RT: 10.022 min Scan# 1331
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:139 Resp: 160308

Ion	Ratio	Lower	Upper
139	100		
109	69.0	50.2	90.2
65	123.4	109.2	149.2

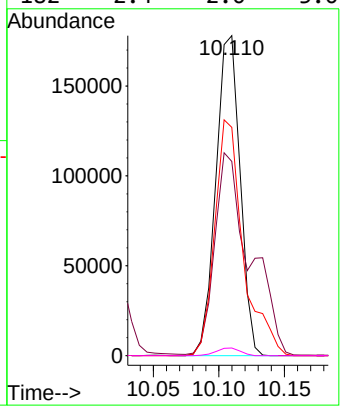




#57
2,4-Dinitrotoluene
Concen: 78.669 ng
RT: 10.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:165 Resp: 22903

Ion	Ratio	Lower	Upper
165	100		
63	60.7	48.9	73.3
89	71.3	57.5	86.3
182	2.4	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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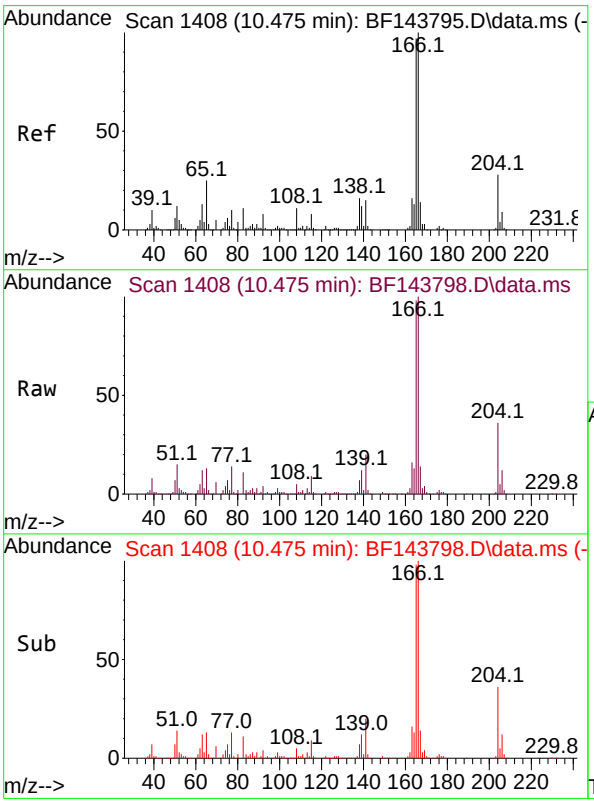
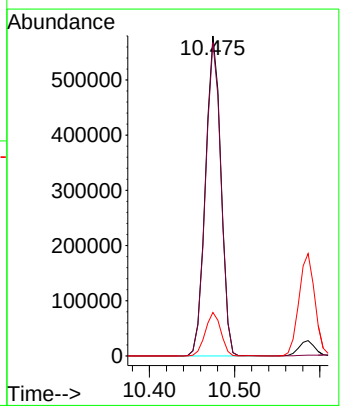
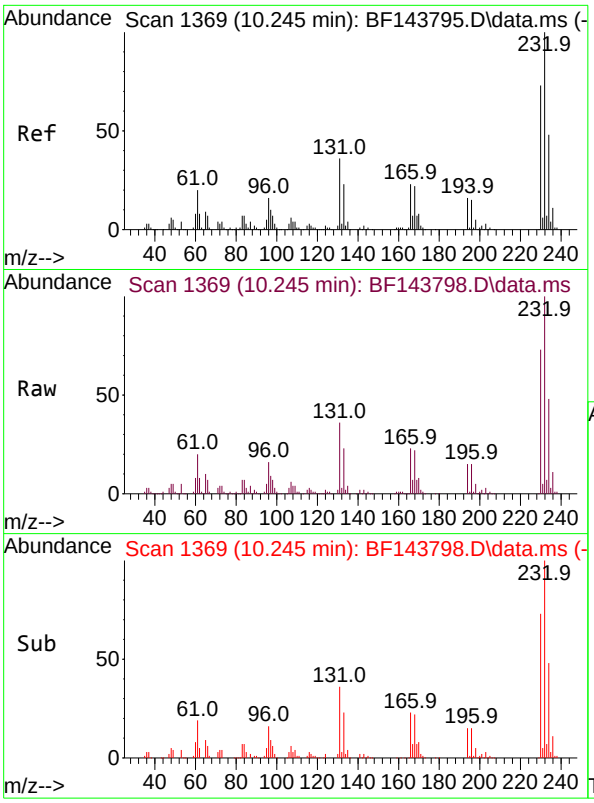


#58
Fluorene
Concen: 68.947 ng
RT: 10.475 min Scan# 1408
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:166 Resp: 730945

Ion	Ratio	Lower	Upper
166	100		
165	98.0	78.0	117.0
167	13.6	10.9	16.3

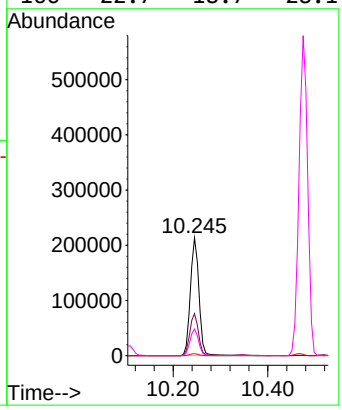




#59
2,3,4,6-Tetrachlorophenol
Concen: 83.157 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:232 Resp: 26900

Ion	Ratio	Lower	Upper
232	100		
131	35.7	29.4	44.2
130	1.6	1.3	1.9
166	22.7	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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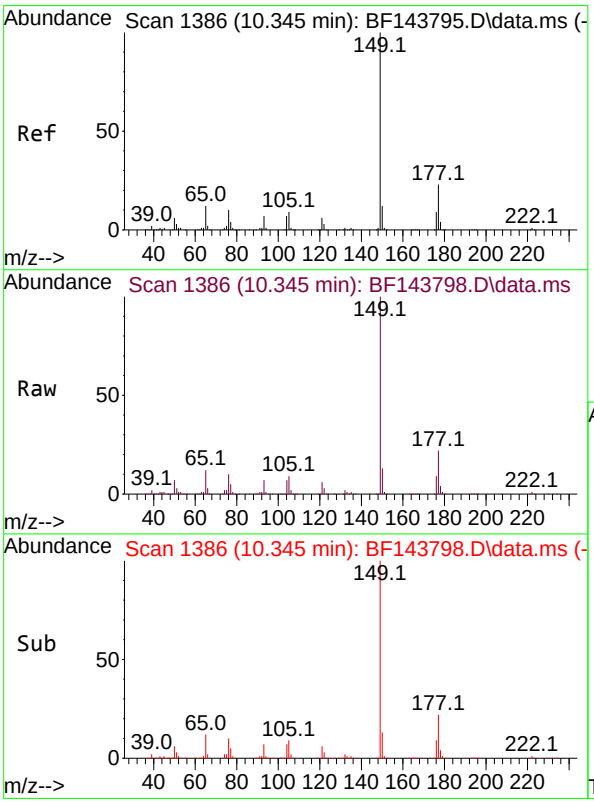
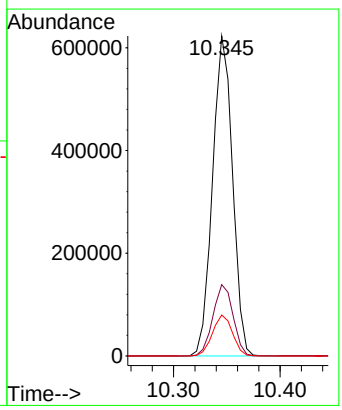
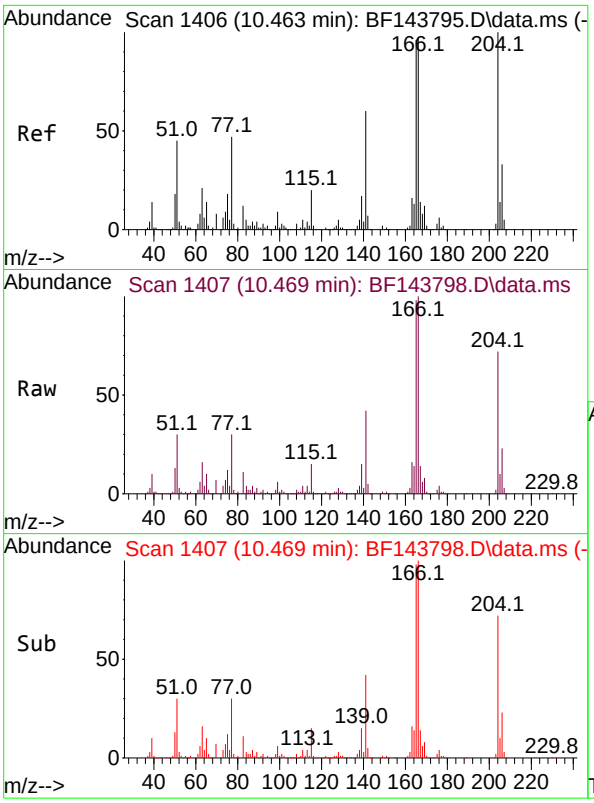


#60
Diethylphthalate
Concen: 74.753 ng
RT: 10.345 min Scan# 1386
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:149 Resp: 814823

Ion	Ratio	Lower	Upper
149	100		
177	22.3	18.1	27.1
150	12.8	9.7	14.5





#61
4-Chlorophenyl-phenylether
Concen: 71.259 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:204 Resp: 38493

Ion	Ratio	Lower	Upper
204	100		
206	32.5	26.7	40.1
141	57.7	48.2	72.2

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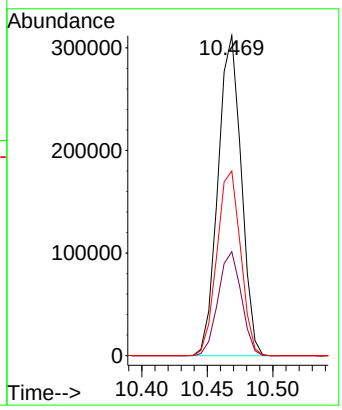
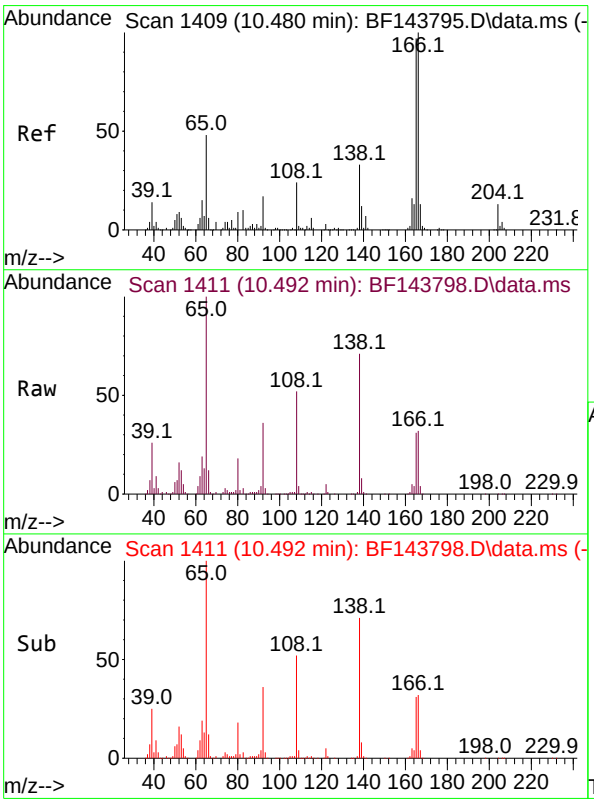
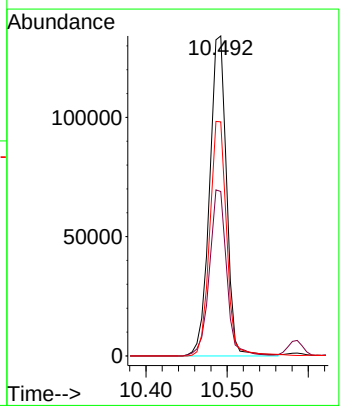


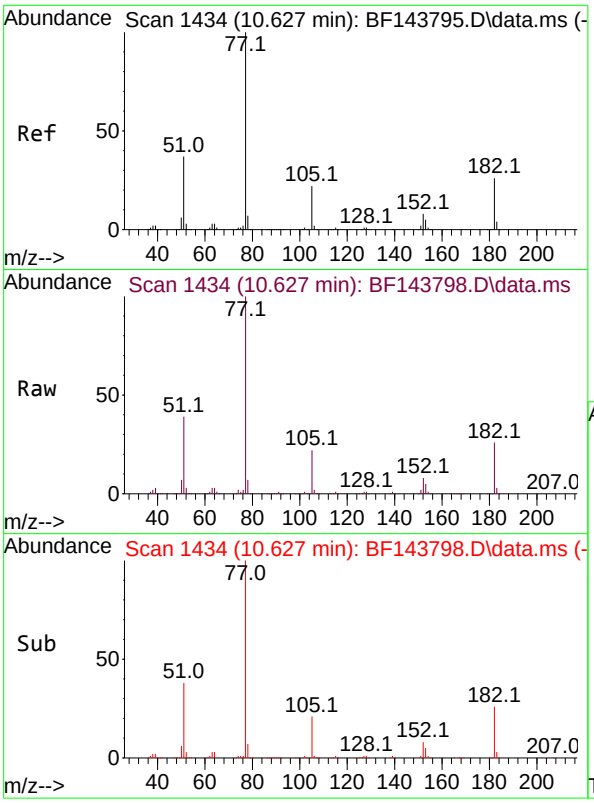


#62
4-Nitroaniline
Concen: 89.434 ng
RT: 10.492 min Scan# 1411
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:138 Resp: 195008

Ion	Ratio	Lower	Upper
138	100		
92	51.4	31.5	71.5
108	73.1	51.9	91.9

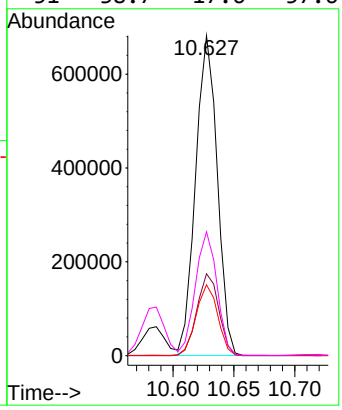




#63
Azobenzene
Concen: 73.264 ng
RT: 10.627 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion: 77 Resp: 84163

Ion	Ratio	Lower	Upper
77	100		
182	25.6	5.9	45.9
105	22.1	2.3	42.3
51	38.7	17.6	57.6



Instrument :
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ClientSampleId :
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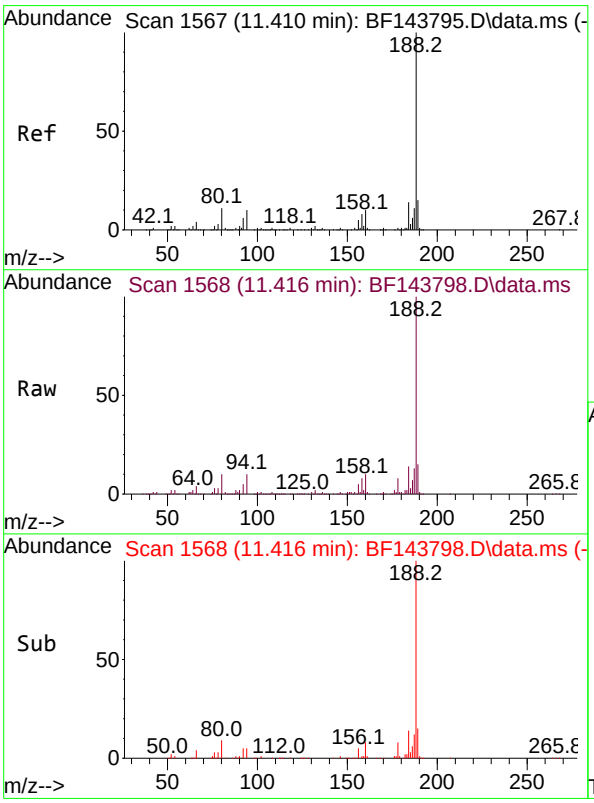
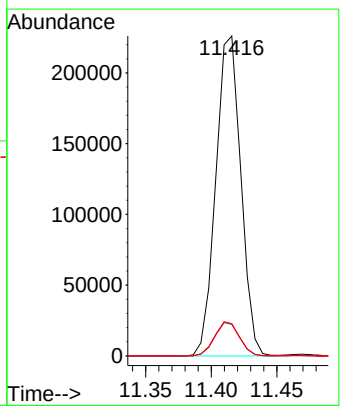
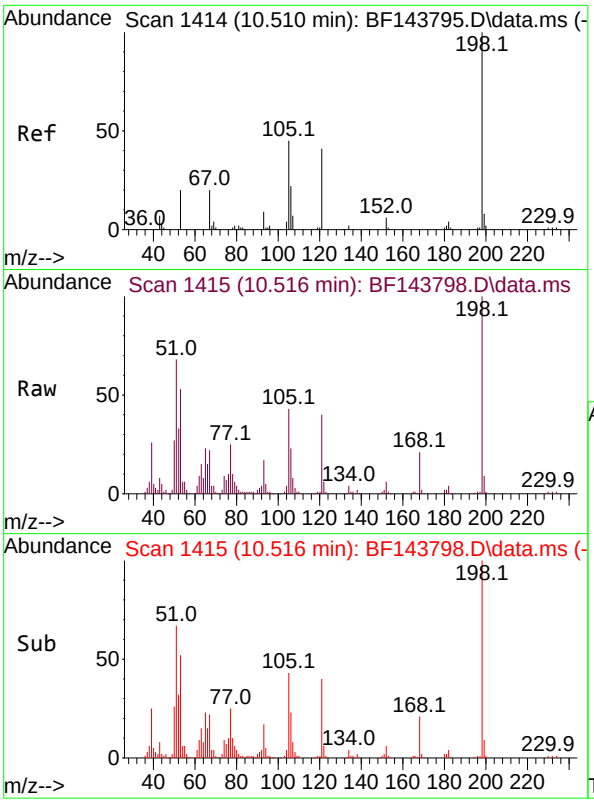


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:188 Resp: 300725

Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.2	12.2
80	10.1	8.6	12.8





#65
4,6-Dinitro-2-methylphenol
Concen: 78.431 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:198 Resp: 101519

Ion	Ratio	Lower	Upper
198	100		
51	67.7	52.0	92.0
105	43.2	27.5	67.5

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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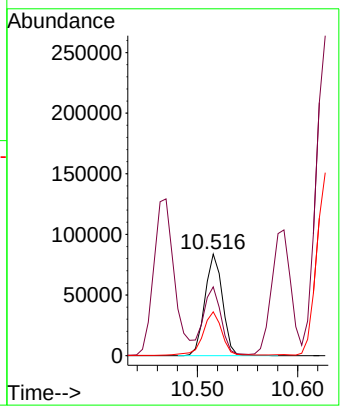
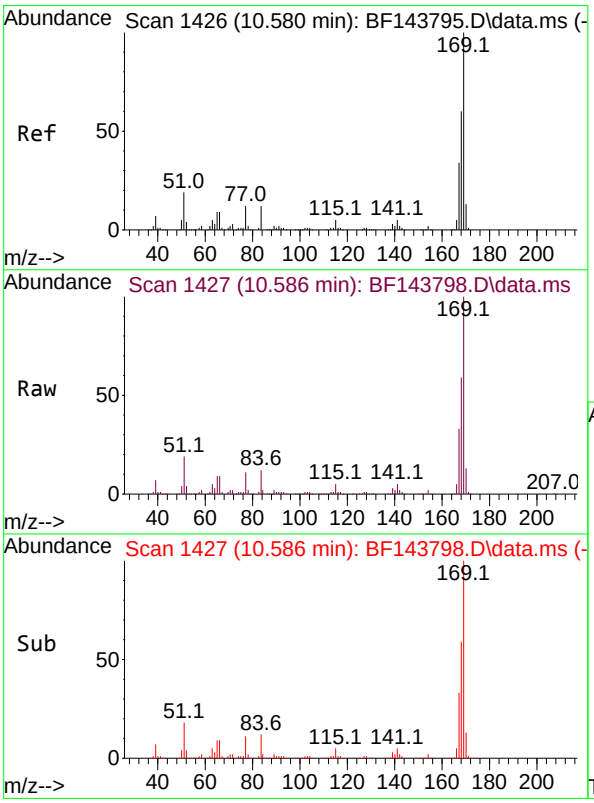
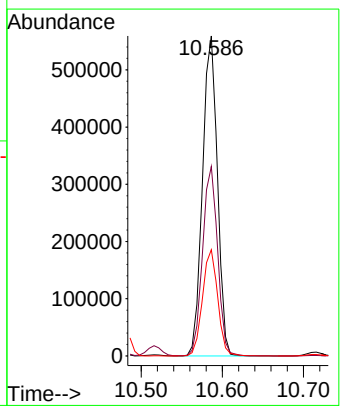


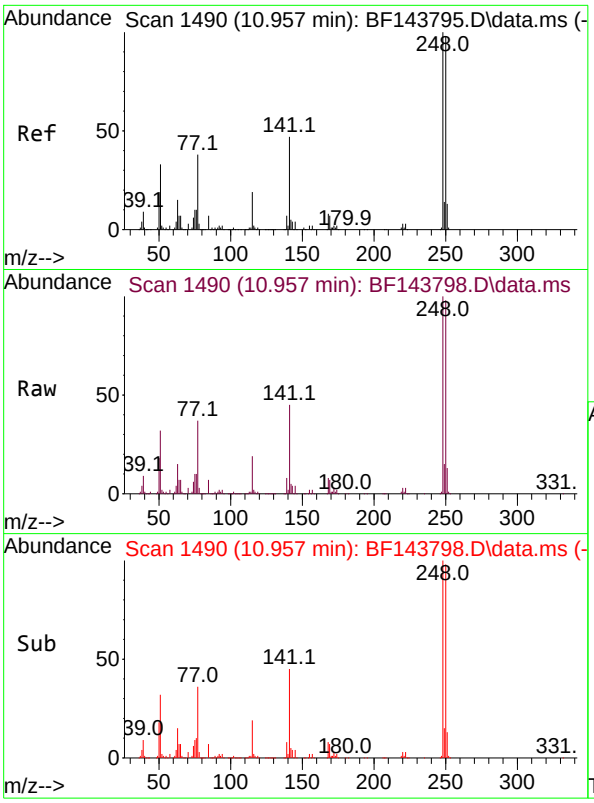


#66
n-Nitrosodiphenylamine
Concen: 72.221 ng
RT: 10.586 min Scan# 1427
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:169 Resp: 714258

Ion	Ratio	Lower	Upper
169	100		
168	59.2	47.9	71.9
167	33.2	27.0	40.6

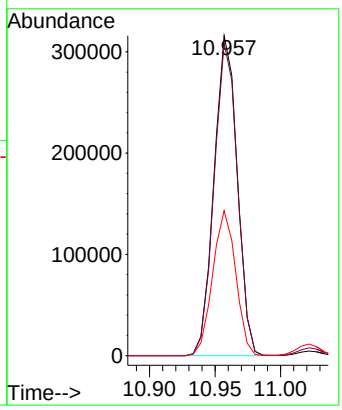




#67
4-Bromophenyl-phenylether
Concen: 75.954 ng
RT: 10.957 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:248 Resp: 38925

Ion	Ratio	Lower	Upper
248	100		
250	97.7	78.7	118.1
141	45.3	37.9	56.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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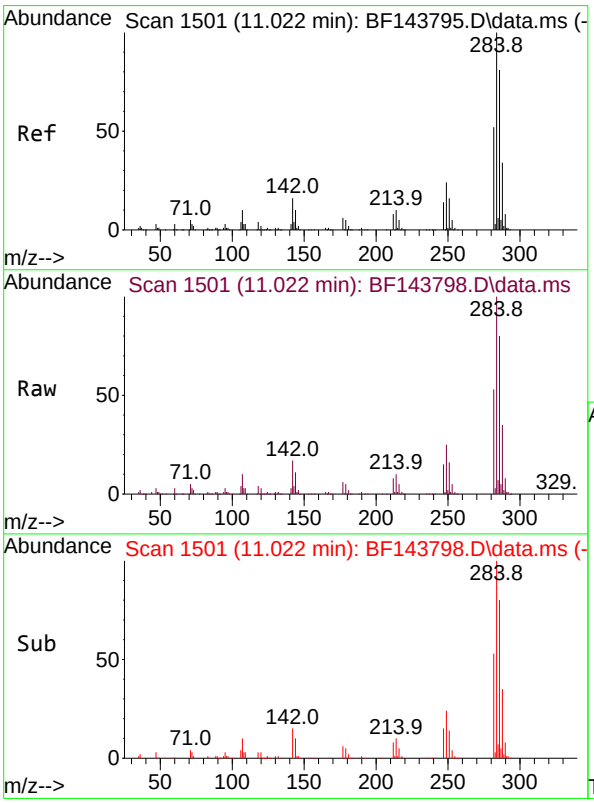
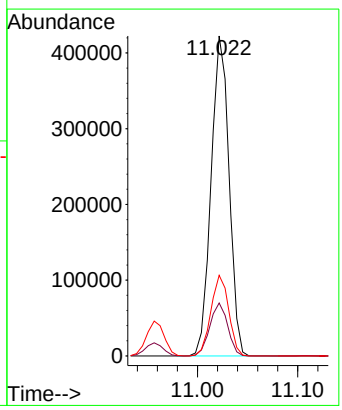
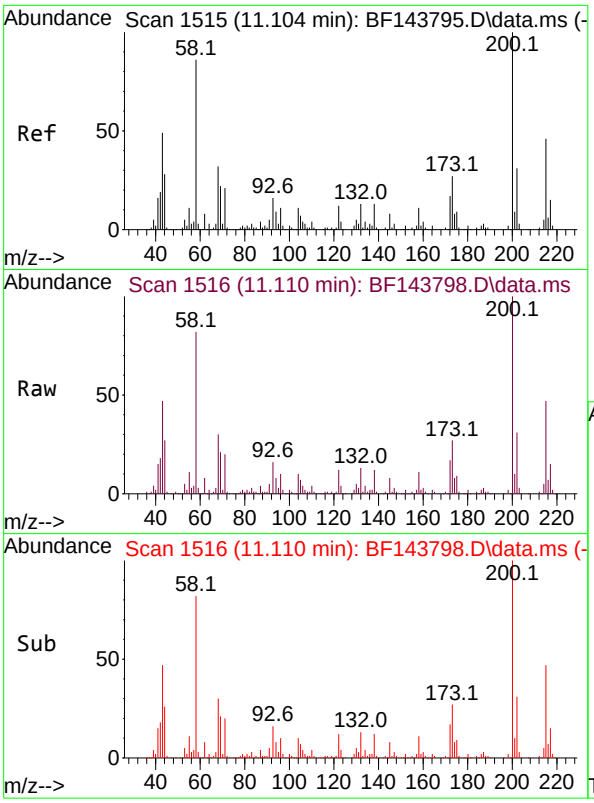


#68
Hexachlorobenzene
Concen: 74.398 ng
RT: 11.022 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:284 Resp: 525440

Ion	Ratio	Lower	Upper
284	100		
142	16.5	13.1	19.7
249	25.2	19.5	29.3

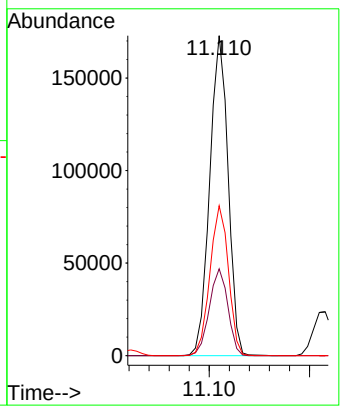




#69
Atrazine
Concen: 76.710 ng
RT: 11.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:200 Resp: 21969

Ion	Ratio	Lower	Upper
200	100		
173	27.1	7.2	47.2
215	46.8	26.0	66.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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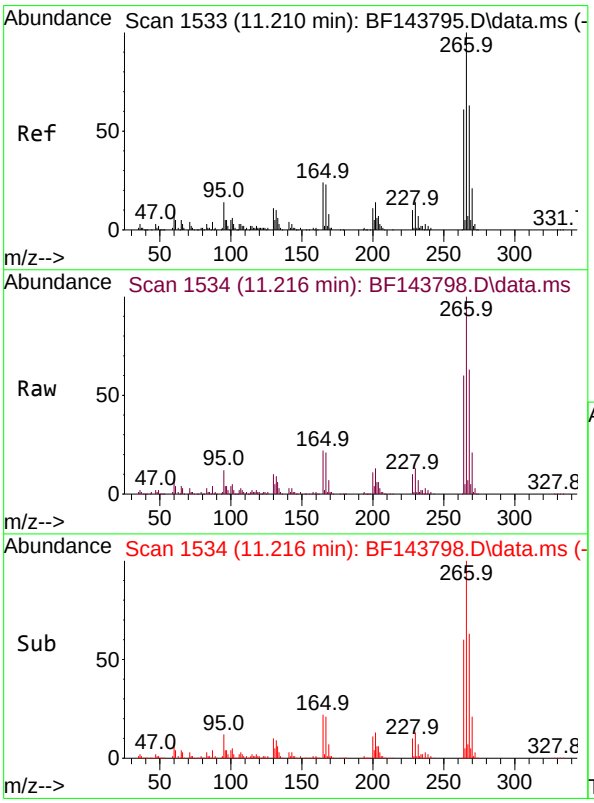
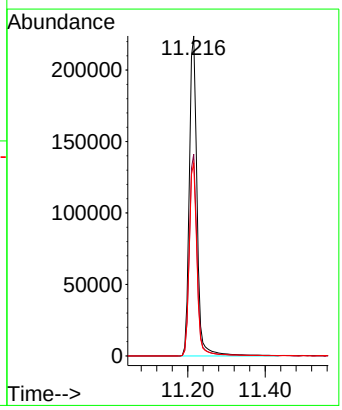
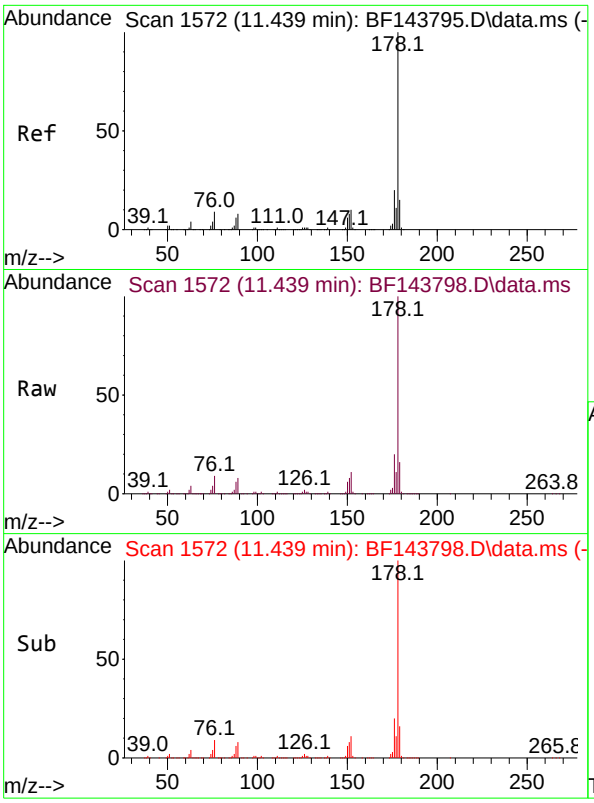


#70
Pentachlorophenol
Concen: 88.529 ng
RT: 11.216 min Scan# 1534
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:266 Resp: 311232

Ion	Ratio	Lower	Upper
266	100		
268	63.0	50.5	75.7
264	60.2	48.8	73.2

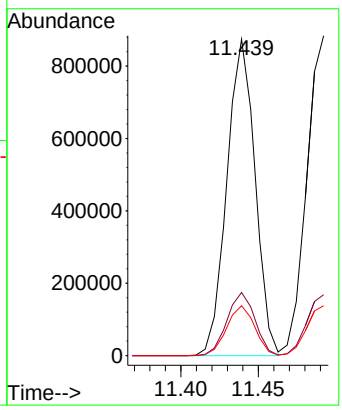




#71
Phenanthrene
Concen: 71.783 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:178 Resp: 110826

Ion	Ratio	Lower	Upper
178	100		
176	19.9	15.6	23.4
179	15.8	12.2	18.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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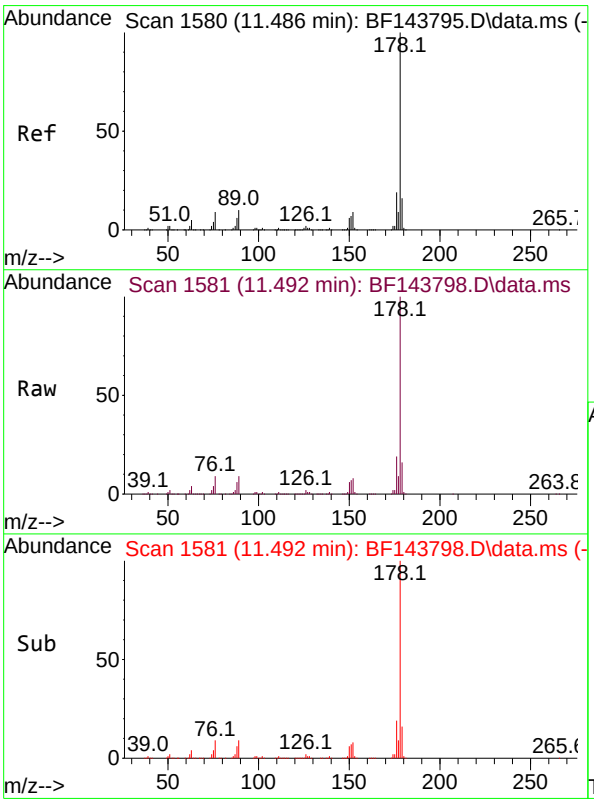
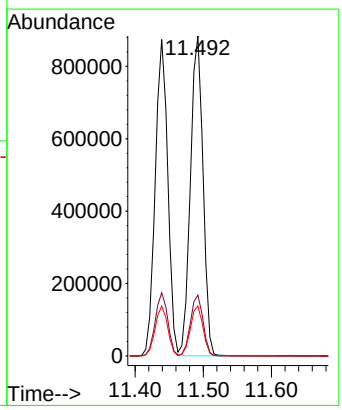
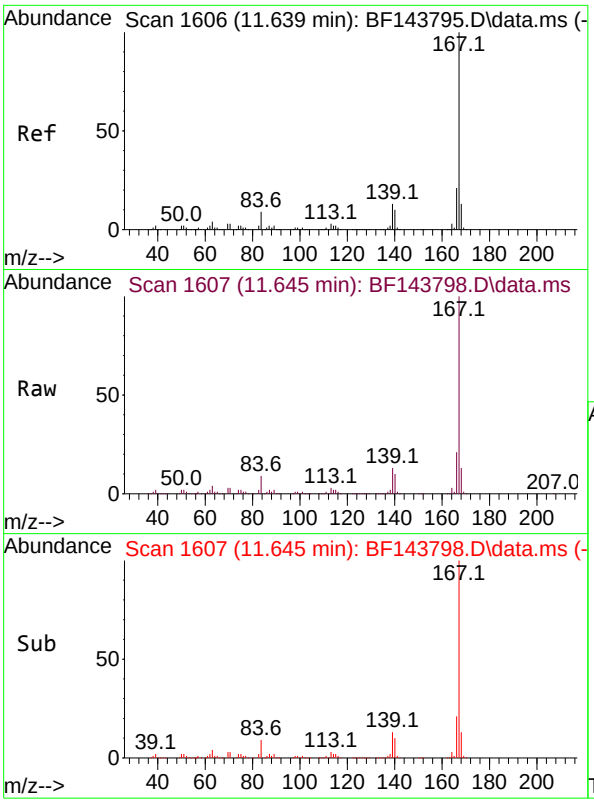


#72
Anthracene
Concen: 73.416 ng
RT: 11.492 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:178 Resp: 1136970

Ion	Ratio	Lower	Upper
178	100		
176	19.0	15.3	22.9
179	15.6	12.8	19.2

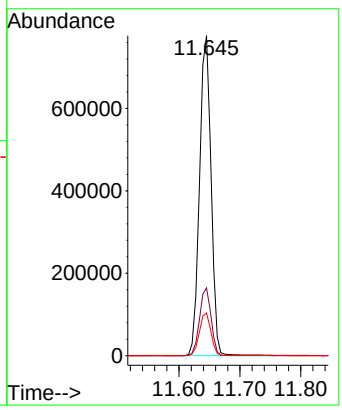




#73
Carbazole
Concen: 75.229 ng
RT: 11.645 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:167 Resp: 101862

Ion	Ratio	Lower	Upper
167	100		
166	21.2	17.0	25.4
139	13.3	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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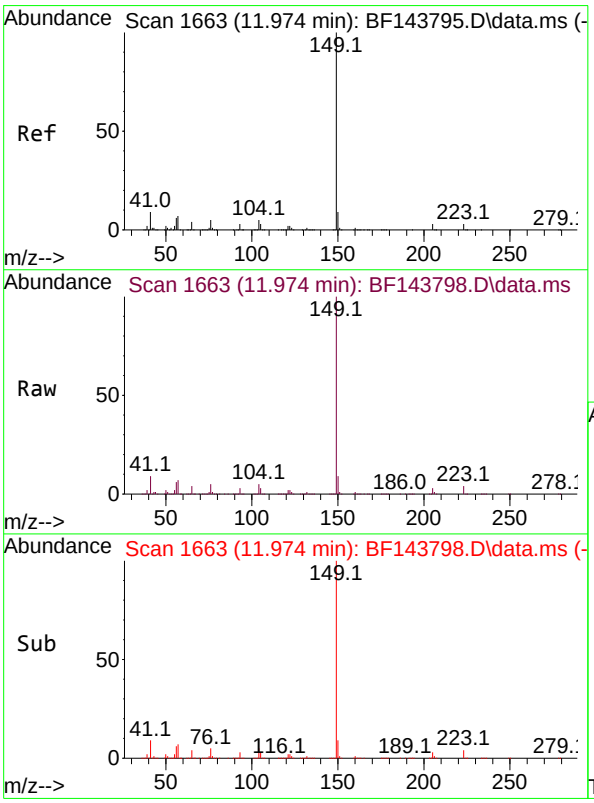
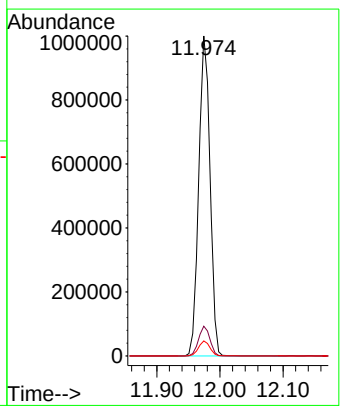
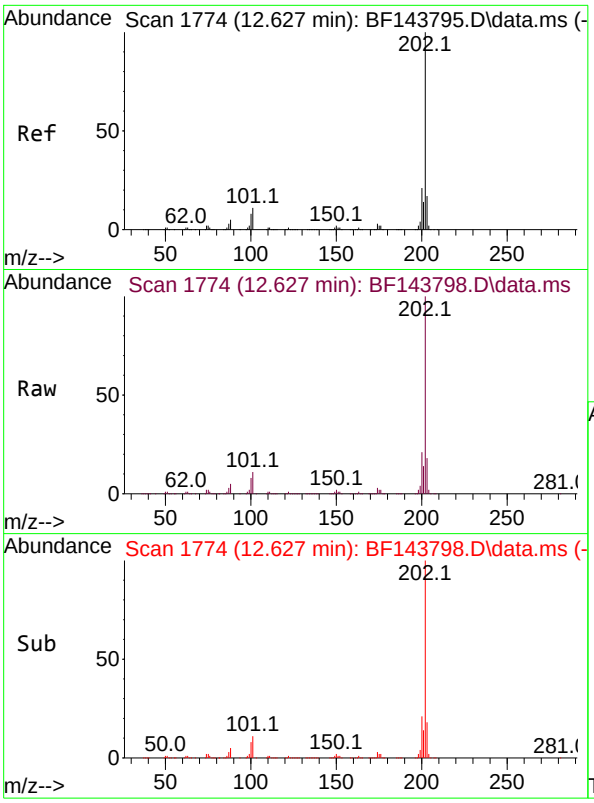


#74
Di-n-butylphthalate
Concen: 79.613 ng
RT: 11.974 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:149 Resp: 1239778

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	4.7	3.6	5.4

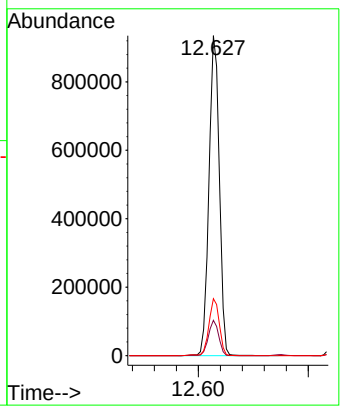




#75
Fluoranthene
Concen: 78.389 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:202 Resp: 121724

Ion	Ratio	Lower	Upper
202	100		
101	11.0	0.0	31.1
203	17.8	0.0	37.4



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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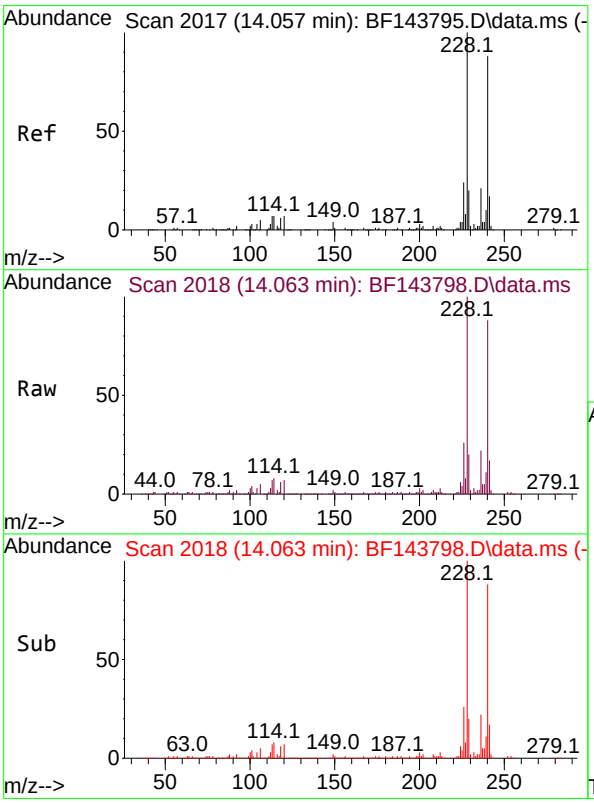
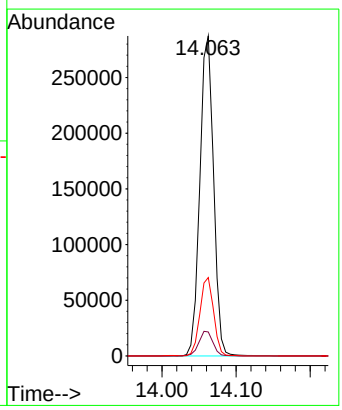
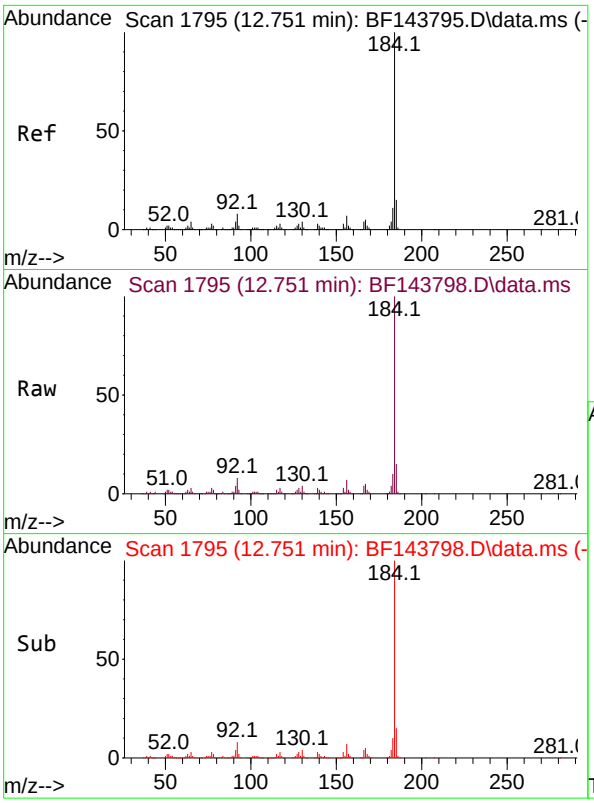


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2018
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:240 Resp: 368976

Ion	Ratio	Lower	Upper
240	100		
120	7.5	6.2	9.4
236	24.5	19.4	29.2

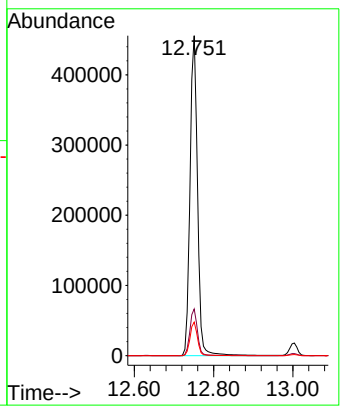




#77
Benzidine
Concen: 66.788 ng
RT: 12.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:184 Resp: 60049

Ion	Ratio	Lower	Upper
184	100		
185	14.6	11.6	17.4
183	10.5	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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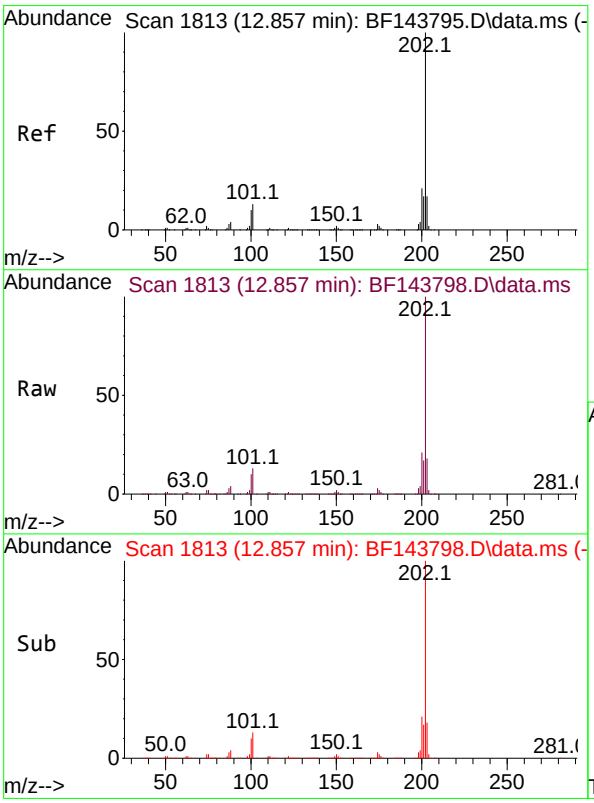
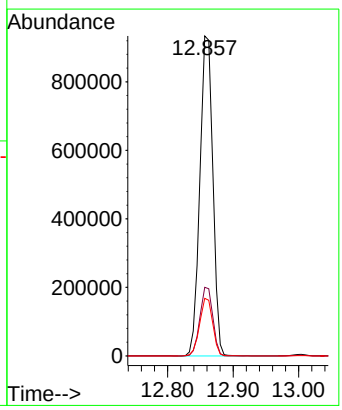
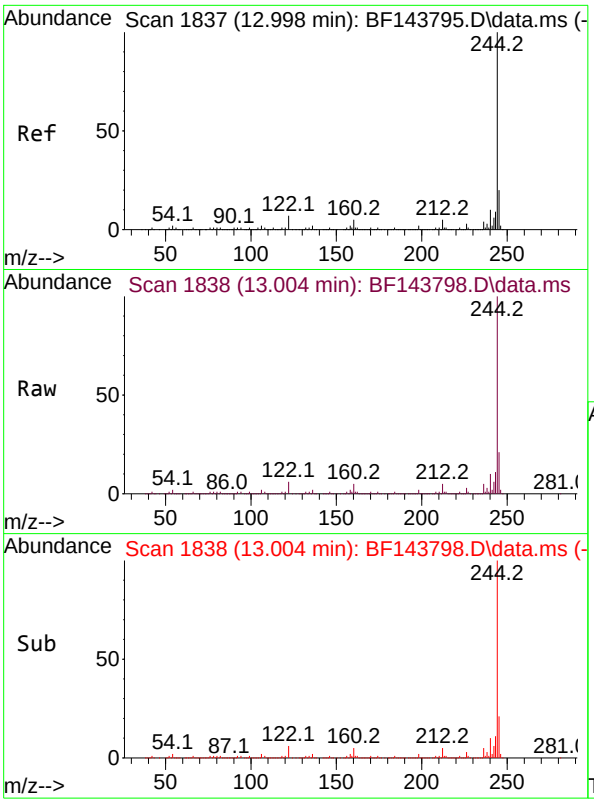


#78
Pyrene
Concen: 70.553 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:202 Resp: 1279855

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.0	25.4
203	18.0	13.9	20.9





#79
Terphenyl-d14
Concen: 133.790 ng
RT: 13.004 min Scan# 18
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Tgt Ion:244 Resp: 251440

Ion	Ratio	Lower	Upper
244	100		
212	4.9	3.9	5.9
122	6.1	5.6	8.4

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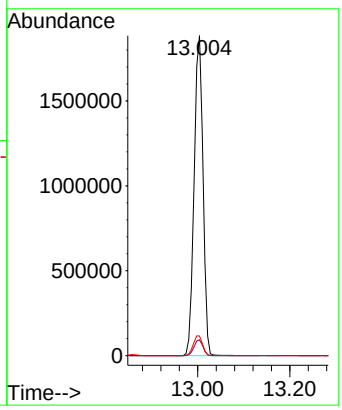
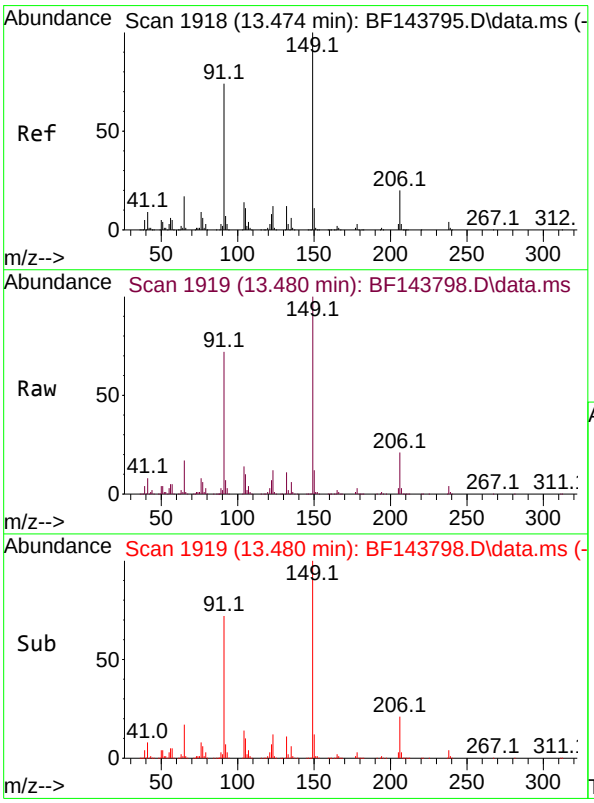
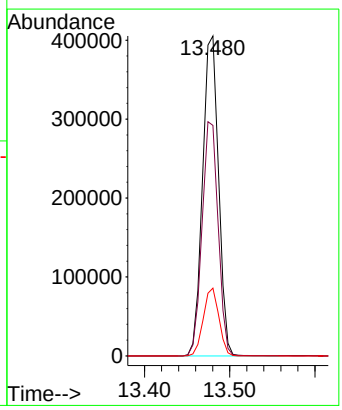


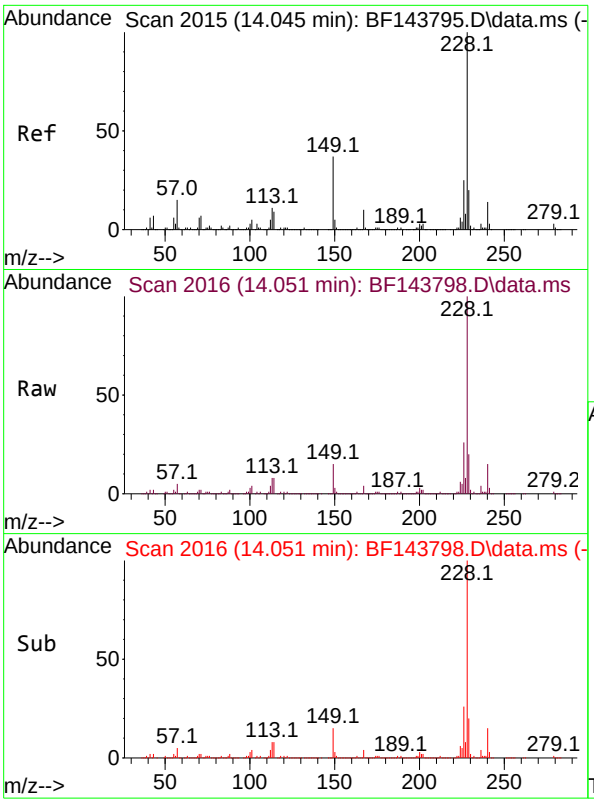


#80
Butylbenzylphthalate
Concen: 84.139 ng
RT: 13.480 min Scan# 1919
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:149 Resp: 528060

Ion	Ratio	Lower	Upper
149	100		
91	72.0	59.5	89.3
206	21.2	16.1	24.1





#81
Benzo(a)anthracene
Concen: 74.057 ng
RT: 14.051 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:228 Resp: 146796

Ion	Ratio	Lower	Upper
228	100		
226	25.8	20.2	30.2
229	20.1	16.1	24.1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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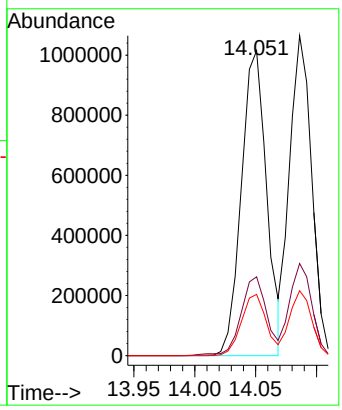
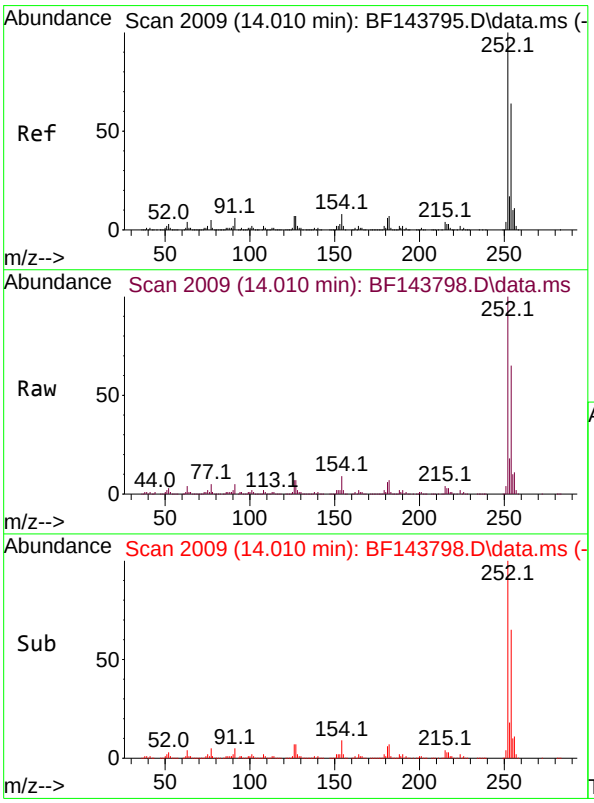
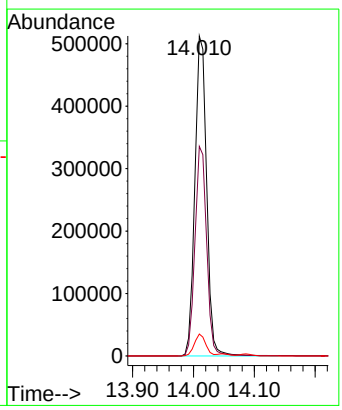


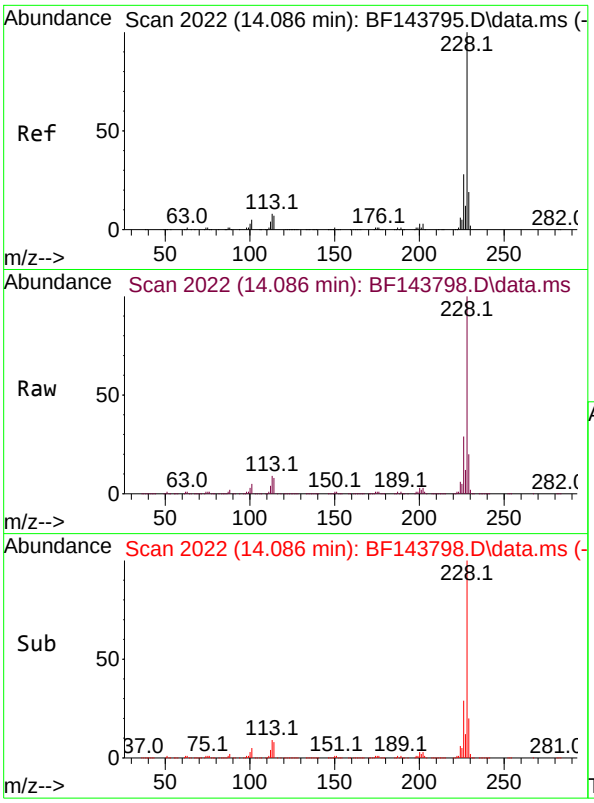


#82
3,3'-Dichlorobenzidine
Concen: 80.036 ng
RT: 14.010 min Scan# 2009
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:252 Resp: 687295

Ion	Ratio	Lower	Upper
252	100		
254	65.5	51.5	77.3
126	6.8	5.4	8.2





#83
Chrysene
Concen: 75.382 ng
RT: 14.086 min Scan# 2(
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:228 Resp: 135207

Ion	Ratio	Lower	Upper
228	100		
226	28.8	22.6	33.8
229	20.3	15.6	23.4

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

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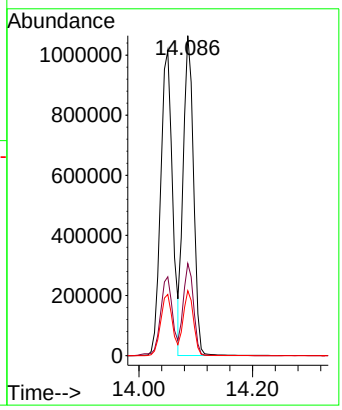
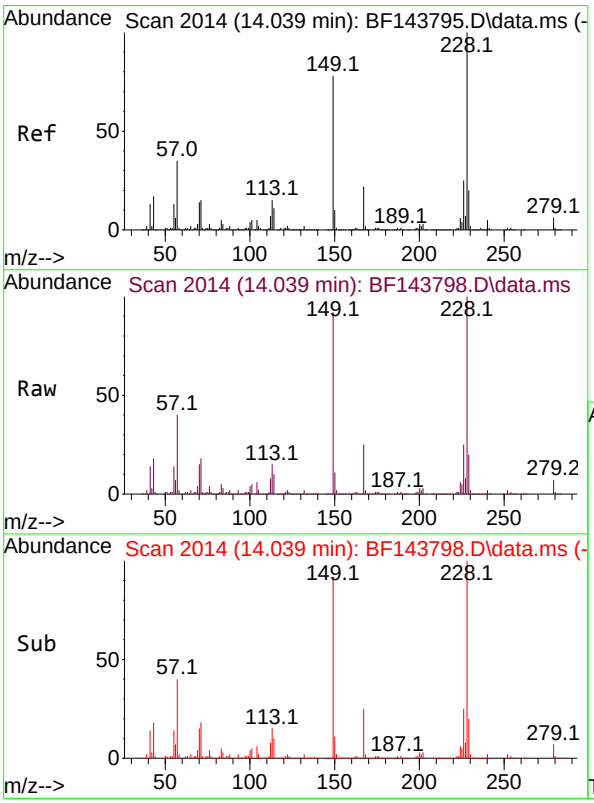
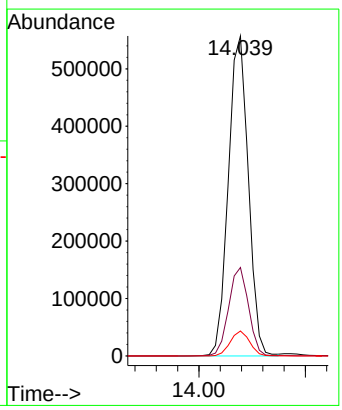


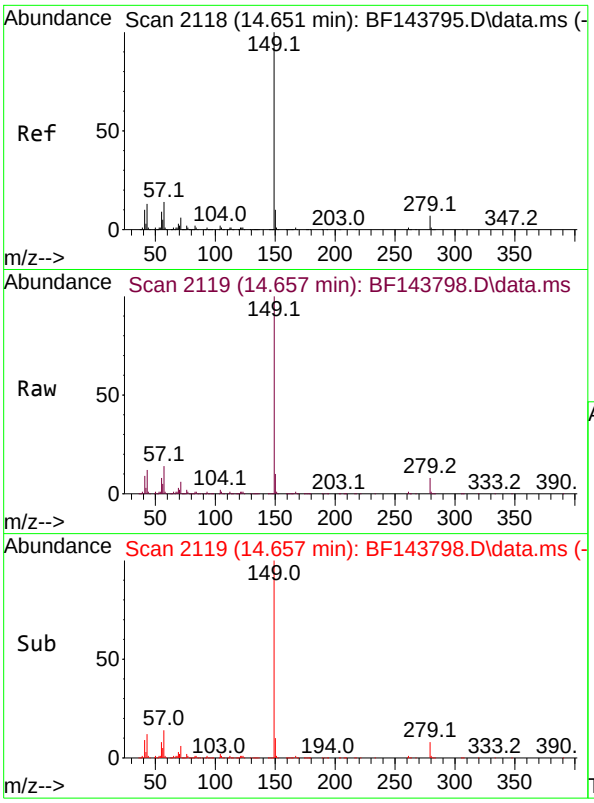


#84
Bis(2-ethylhexyl)phthalate
Concen: 78.996 ng
RT: 14.039 min Scan# 2014
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:149 Resp: 726710

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.2
279	7.8	6.0	9.0

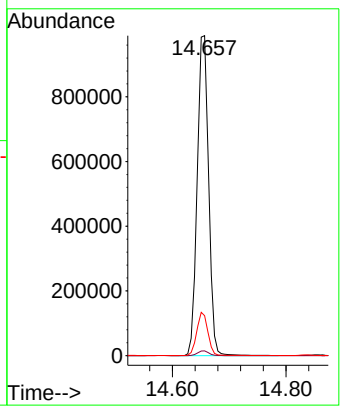




#85
Di-n-octyl phthalate
Concen: 82.239 ng
RT: 14.657 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:149 Resp: 137233

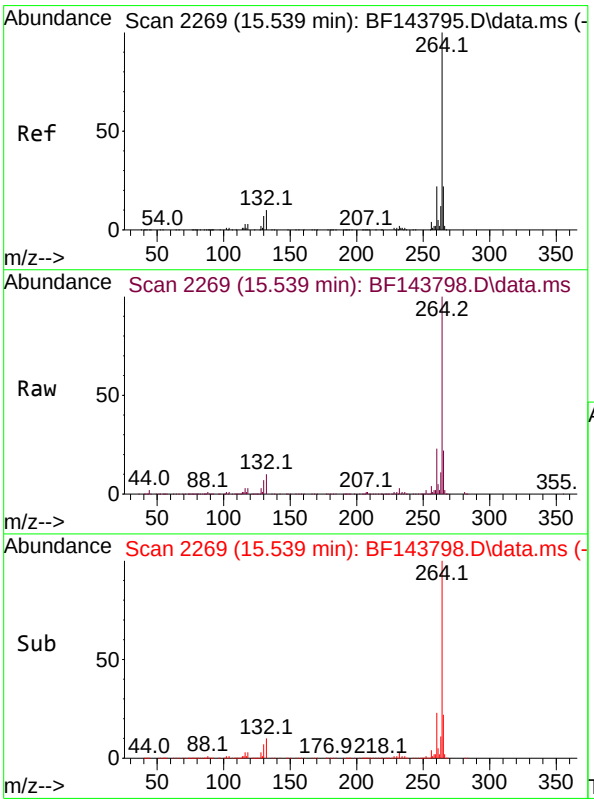
Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.1	1.7
43	13.2	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

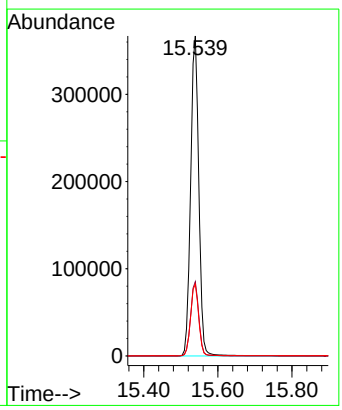
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

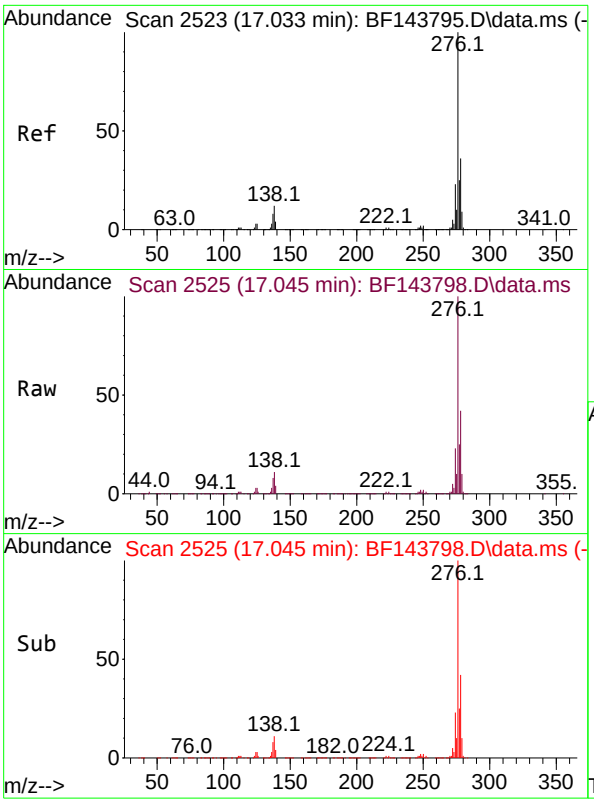


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:264 Resp: 561861

Ion	Ratio	Lower	Upper
264	100		
260	23.2	17.9	26.9
265	22.4	17.7	26.5

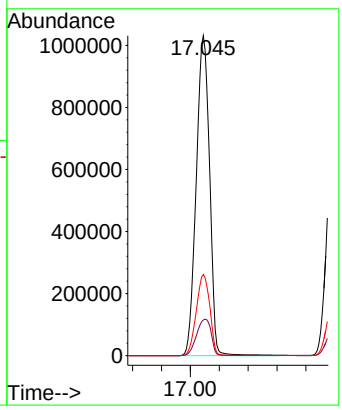




#87
Indeno(1,2,3-cd)pyrene
Concen: 77.396 ng
RT: 17.045 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:276 Resp: 329942

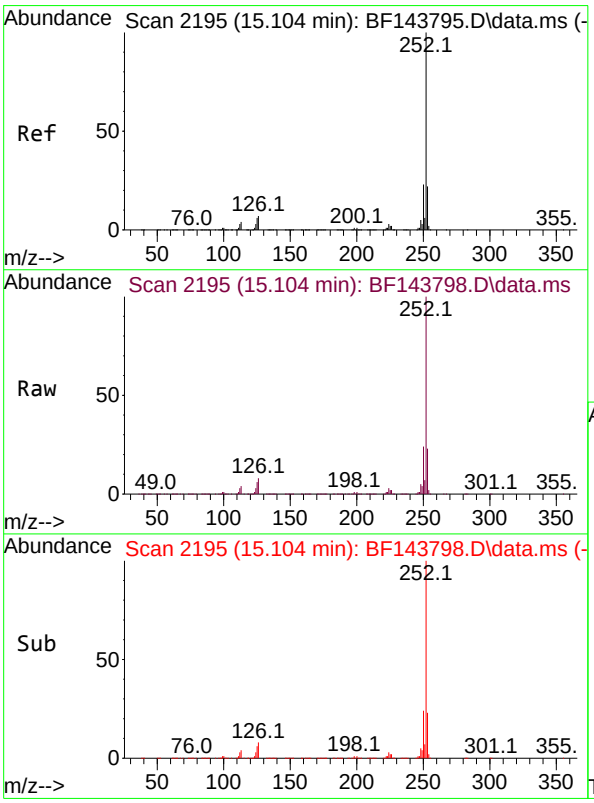
Ion	Ratio	Lower	Upper
276	100		
138	12.4	10.6	15.8
277	25.7	20.7	31.1



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
APPROVED

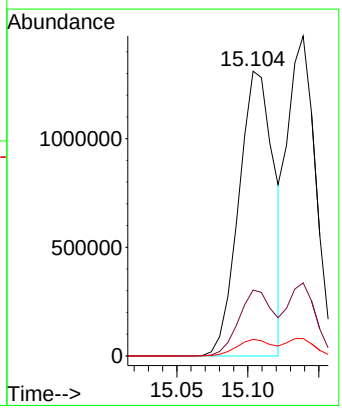
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

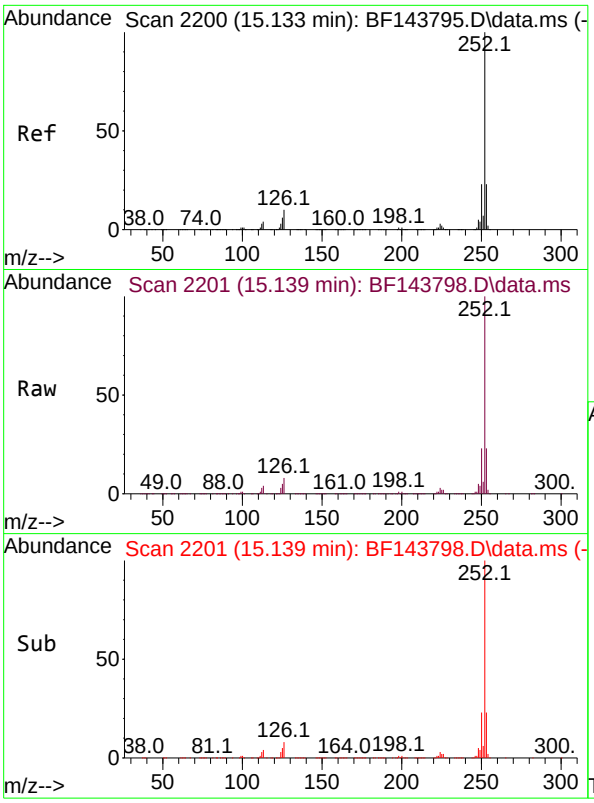


#88
Benzo(b)fluoranthene
Concen: 78.555 ng
RT: 15.104 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:252 Resp: 2247670

Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.8	26.8
125	5.8	4.4	6.6

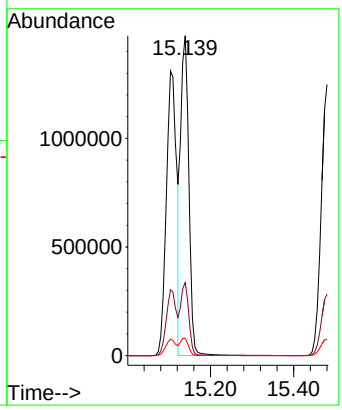




#89
Benzo(k)fluoranthene
Concen: 70.756 ng
RT: 15.139 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:252 Resp: 203398

Ion	Ratio	Lower	Upper
252	100		
253	22.8	17.9	26.9
125	5.4	4.6	6.8



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations
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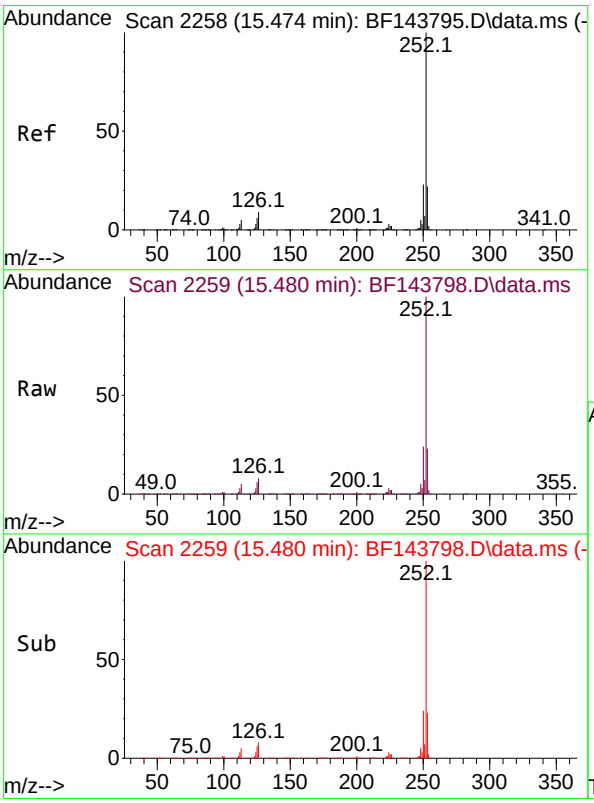
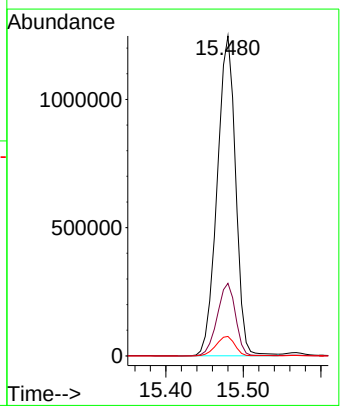
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

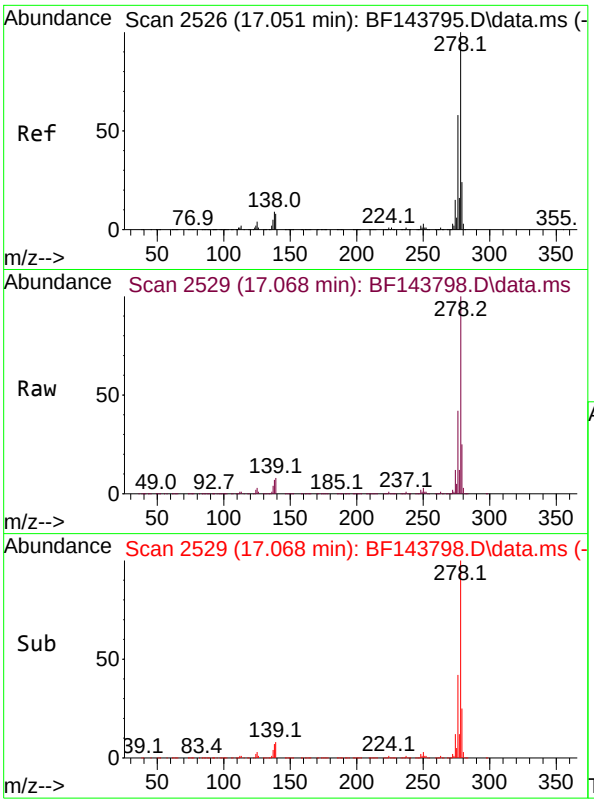


#90
Benzo(a)pyrene
Concen: 76.712 ng
RT: 15.480 min Scan# 2259
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:252 Resp: 2063204

Ion	Ratio	Lower	Upper
252	100		
253	22.7	17.6	26.4
125	6.1	5.0	7.4

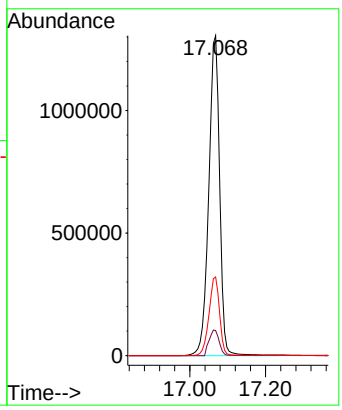




#91
Dibenzo(a,h)anthracene
Concen: 75.178 ng
RT: 17.068 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:278 Resp: 262131

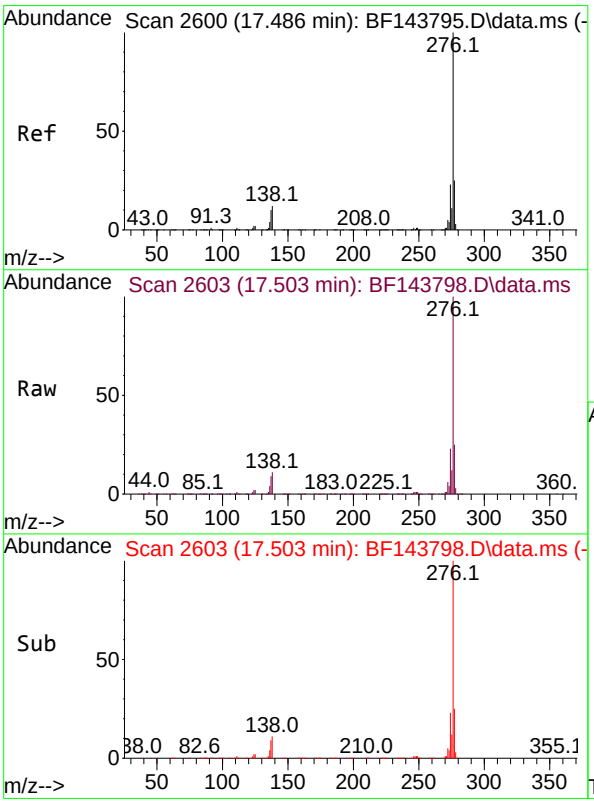
Ion	Ratio	Lower	Upper
278	100		
139	7.9	6.7	10.1
279	24.6	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Manual Integrations APPROVED

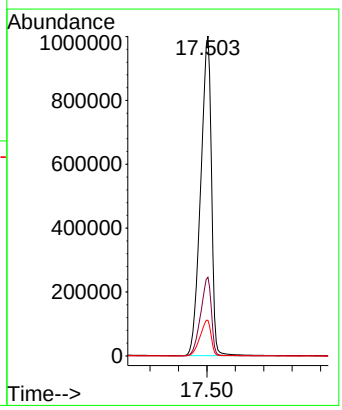
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025



#92
Benzo(g,h,i)perylene
Concen: 78.108 ng
RT: 17.503 min Scan# 2603
Delta R.T. 0.000 min
Lab File: BF143798.D
Acq: 23 Sep 2025 15:27

Tgt Ion:276 Resp: 2625358

Ion	Ratio	Lower	Upper
276	100		
277	24.6	19.6	29.4
138	11.1	9.2	13.8



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143799.D
Acq On : 23 Sep 2025 17:42
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF092325

Quant Time: Sep 23 18:09:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 17:50:26 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.887	152	109221	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	390323	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	191064	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	302827	20.000	ng	0.00
76) Chrysene-d12	14.057	240	375572	20.000	ng	0.00
86) Perylene-d12	15.533	264	528363	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.493	112	587541	86.573	ng	0.00
7) Phenol-d6	6.504	99	655490	81.847	ng	0.00
23) Nitrobenzene-d5	7.445	82	563159	90.799	ng	0.00
42) 2,4,6-Tribromophenol	10.710	330	260676	95.600	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1032314	79.843	ng	0.00
79) Terphenyl-d14	12.998	244	1544756	80.752	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.628	88	140442	43.647	ng	99
3) Pyridine	3.399	79	373668	43.022	ng	99
4) n-Nitrosodimethylamine	3.340	42	184836	42.441	ng	99
6) Aniline	6.546	93	468886	41.592	ng	99
8) 2-Chlorophenol	6.669	128	292186	42.456	ng	99
9) Benzaldehyde	6.440	77	317430	46.667	ng	96
10) Phenol	6.516	94	378799m	41.956	ng	
11) bis(2-Chloroethyl)ether	6.616	93	296472	41.891	ng	99
12) 1,3-Dichlorobenzene	6.828	146	337770	42.271	ng	100
13) 1,4-Dichlorobenzene	6.904	146	333799	41.859	ng	99
14) 1,2-Dichlorobenzene	7.057	146	315213	41.736	ng	99
15) Benzyl Alcohol	7.022	79	238857	42.558	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	702630	41.868	ng	100
17) 2-Methylphenol	7.128	107	225398	42.304	ng	99
18) Hexachloroethane	7.398	117	120246	42.878	ng	99
19) n-Nitroso-di-n-propyla...	7.293	70	198845	39.810	ng	99
20) 3+4-Methylphenols	7.281	107	283024	43.619	ng	99
22) Acetophenone	7.293	105	355985	41.524	ng	99
24) Nitrobenzene	7.463	77	308041	43.582	ng	99
25) Isophorone	7.704	82	519134	41.778	ng	99
26) 2-Nitrophenol	7.781	139	127397	44.135	ng	98
27) 2,4-Dimethylphenol	7.810	122	237292	42.725	ng	99
28) bis(2-Chloroethoxy)met...	7.916	93	334704	41.459	ng	100
29) 2,4-Dichlorophenol	8.016	162	234561	42.921	ng	98
30) 1,2,4-Trichlorobenzene	8.110	180	240436	42.395	ng	99
31) Naphthalene	8.193	128	785137	42.019	ng	100
32) Benzoic acid	7.893	122	117697	43.922	ng	96
33) 4-Chloroaniline	8.234	127	275488	41.955	ng	99
34) Hexachlorobutadiene	8.310	225	179313	42.413	ng	100
35) Caprolactam	8.587	113	61486	44.018	ng	97
36) 4-Chloro-3-methylphenol	8.704	107	217750	42.485	ng	96
37) 2-Methylnaphthalene	8.881	142	496707	41.689	ng	99
38) 1-Methylnaphthalene	8.981	142	478612	41.968	ng	99
40) 1,2,4,5-Tetrachloroben...	9.045	216	242106	41.989	ng	99
41) Hexachlorocyclopentadiene	9.034	237	160009	43.786	ng	99
43) 2,4,6-Trichlorophenol	9.157	196	162537	45.018	ng	98

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143799.D
Acq On : 23 Sep 2025 17:42
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF092325

Quant Time: Sep 23 18:09:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 17:50:26 2025
Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	159783	42.310	ng		100
46) 1,1'-Biphenyl	9.345	154	570562	41.254	ng		99
47) 2-Chloronaphthalene	9.369	162	457929	41.133	ng		99
48) 2-Nitroaniline	9.463	65	161814	48.090	ng		99
49) Acenaphthylene	9.787	152	647976	42.279	ng		99
50) Dimethylphthalate	9.639	163	496374	42.624	ng		99
51) 2,6-Dinitrotoluene	9.704	165	92326	48.254	ng		99
52) Acenaphthene	9.957	154	422277	41.869	ng		100
53) 3-Nitroaniline	9.869	138	110544	47.665	ng		96
54) 2,4-Dinitrophenol	9.975	184	28355	46.217	ng	#	69
55) Dibenzofuran	10.128	168	602575	42.251	ng		100
56) 4-Nitrophenol	10.016	139	85715	45.864	ng		96
57) 2,4-Dinitrotoluene	10.104	165	126090	44.618	ng		99
58) Fluorene	10.475	166	446712	42.132	ng		100
59) 2,3,4,6-Tetrachlorophenol	10.245	232	149133	46.097	ng		99
60) Diethylphthalate	10.345	149	470914	43.199	ng		99
61) 4-Chlorophenyl-phenyle...	10.463	204	227995	42.203	ng		100
62) 4-Nitroaniline	10.481	138	104533	47.936	ng		98
63) Azobenzene	10.622	77	491364	42.769	ng		98
65) 4,6-Dinitro-2-methylph...	10.510	198	49519	45.452	ng		94
66) n-Nitrosodiphenylamine	10.581	169	413097	41.480	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	221312	42.884	ng		98
68) Hexachlorobenzene	11.022	284	303404	42.661	ng		99
69) Atrazine	11.104	200	130018	45.083	ng		99
70) Pentachlorophenol	11.210	266	163934	46.307	ng		99
71) Phenanthrene	11.439	178	657630	42.299	ng		100
72) Anthracene	11.486	178	674513	43.252	ng		99
73) Carbazole	11.639	167	601493	44.114	ng		100
74) Di-n-butylphthalate	11.975	149	724195	46.182	ng		100
75) Fluoranthene	12.628	202	719722	46.027	ng		100
77) Benzidine	12.751	184	368236	40.236	ng		99
78) Pyrene	12.857	202	759210	41.117	ng		100
80) Butylbenzylphthalate	13.475	149	298166	46.674	ng		99
81) Benzo(a)anthracene	14.045	228	833201	41.296	ng		99
82) 3,3'-Dichlorobenzidine	14.010	252	373433	42.723	ng		99
83) Chrysene	14.080	228	799482	43.791	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	427966	45.704	ng		97
85) Di-n-octyl phthalate	14.651	149	756048	44.512	ng		99
87) Indeno(1,2,3-cd)pyrene	17.027	276	1728261	43.111	ng		99
88) Benzo(b)fluoranthene	15.098	252	1234859	45.894	ng		100
89) Benzo(k)fluoranthene	15.133	252	1105146	40.882	ng		99
90) Benzo(a)pyrene	15.474	252	1093771	43.246	ng		100
91) Dibenzo(a,h)anthracene	17.051	278	1422887	43.395	ng		99
92) Benzo(g,h,i)perylene	17.480	276	1366956	43.247	ng		100

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

ICAL Form

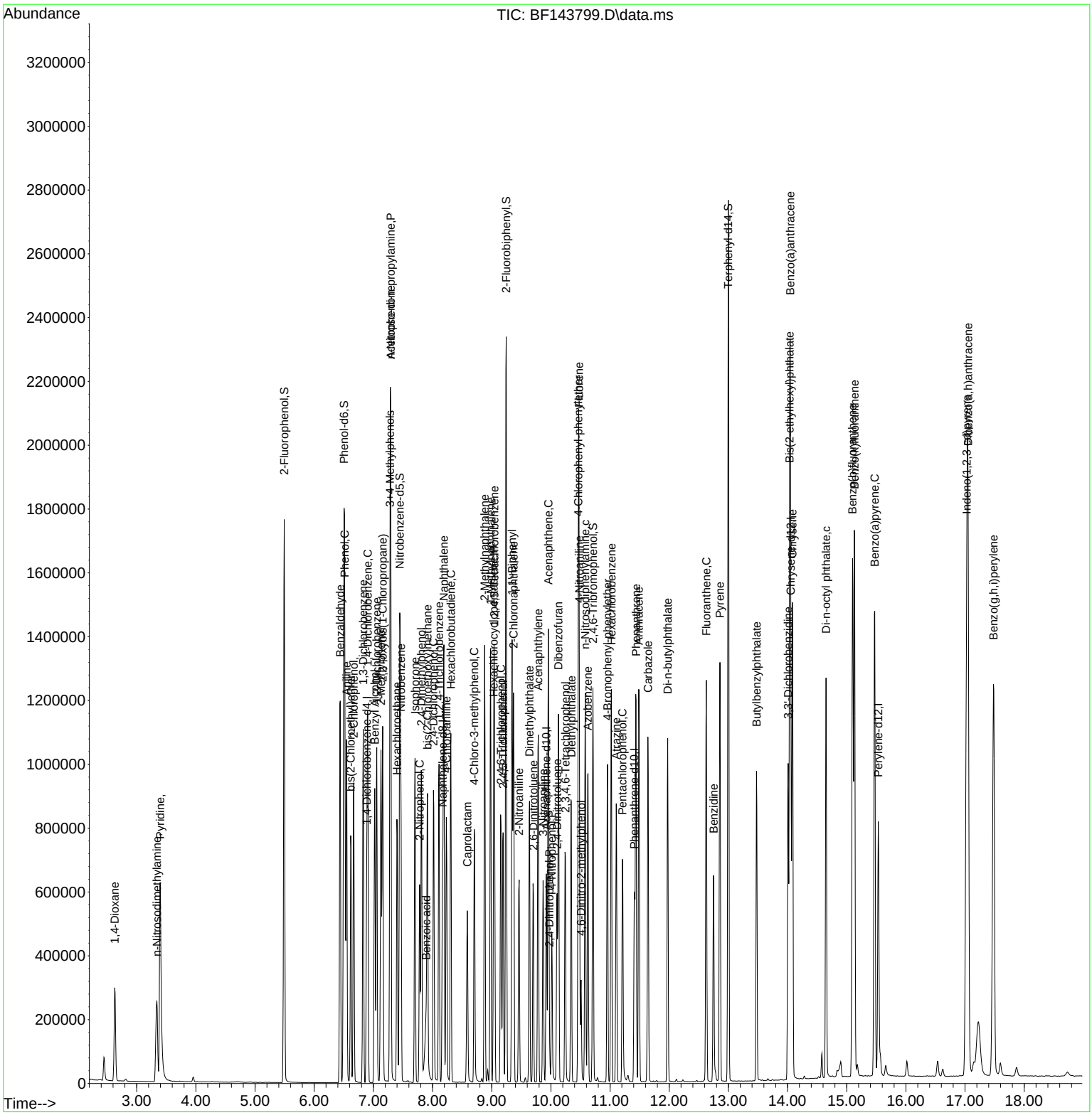
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143799.D
Acq On : 23 Sep 2025 17:42
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

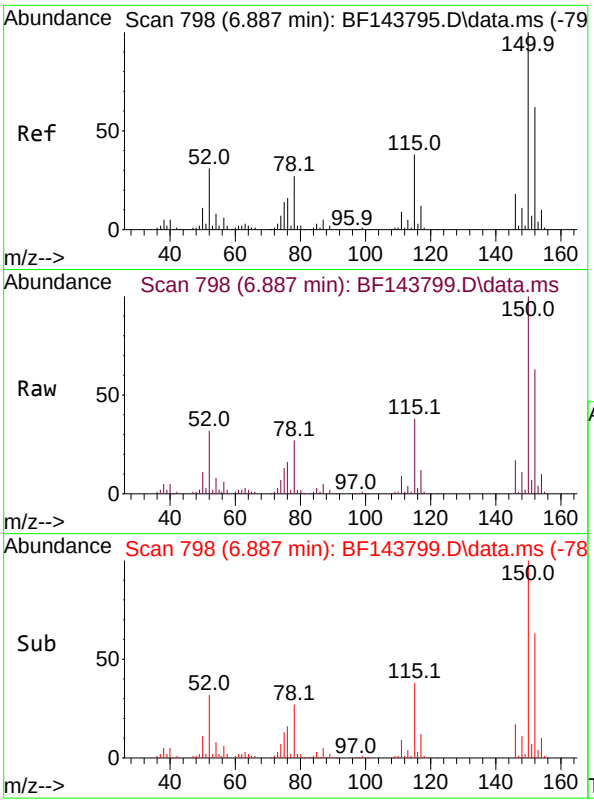
Quant Time: Sep 23 18:09:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 17:50:26 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
ICVBF092325

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

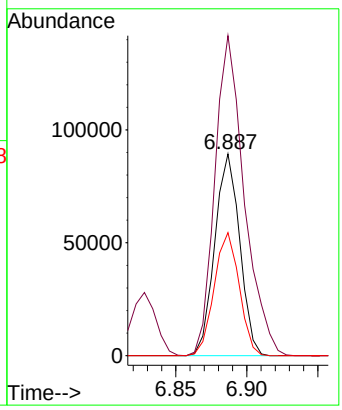




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 79
Delta R.T. -0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:152 Resp: 109221

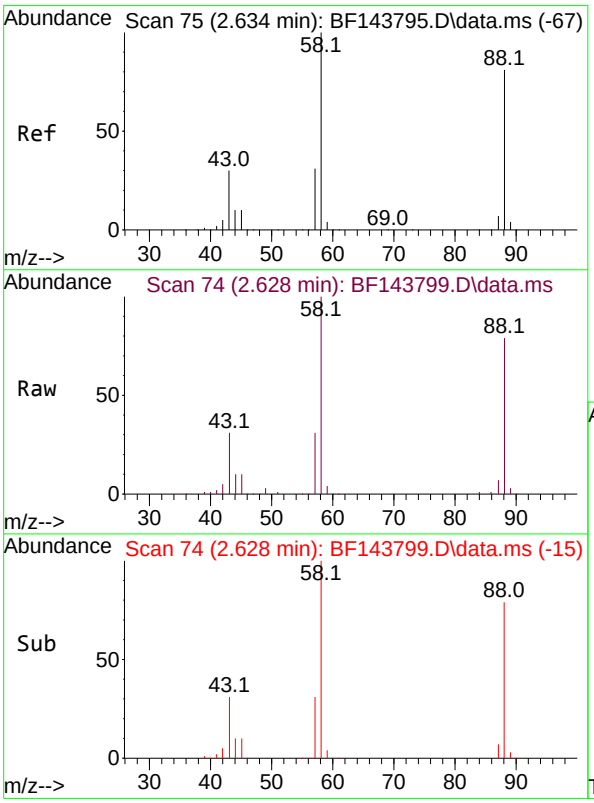
Ion	Ratio	Lower	Upper
152	100		
150	158.7	129.6	194.4
115	61.0	49.0	73.4



Instrument :
BNA_F
ClientSampleId :
ICVBF092325

Manual Integrations
APPROVED

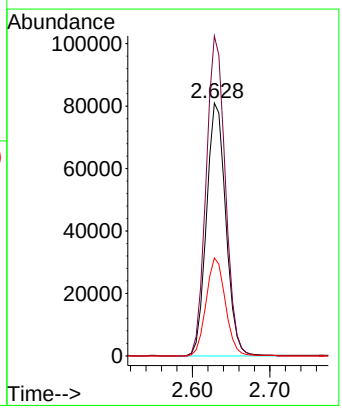
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

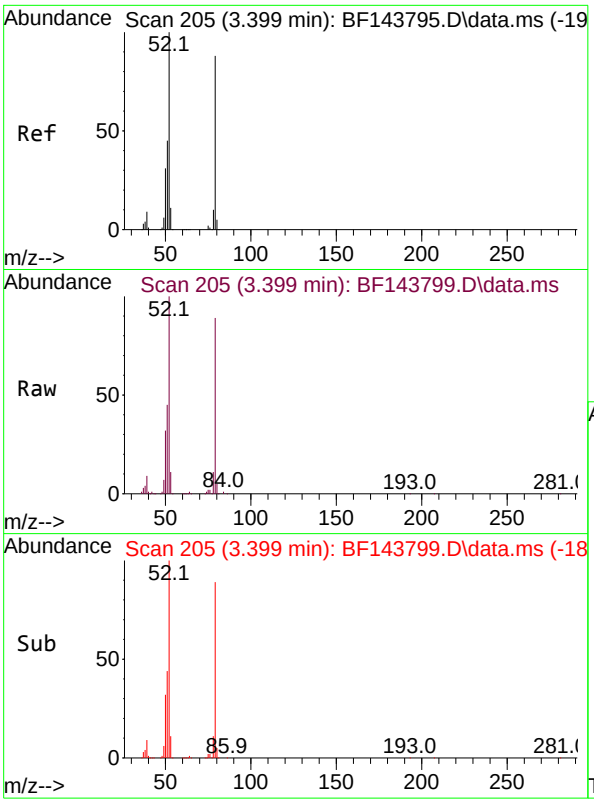


#2
1,4-Dioxane
Concen: 43.647 ng
RT: 2.628 min Scan# 74
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 88 Resp: 140442

Ion	Ratio	Lower	Upper
88	100		
58	125.4	99.4	149.2
43	38.5	30.6	45.8

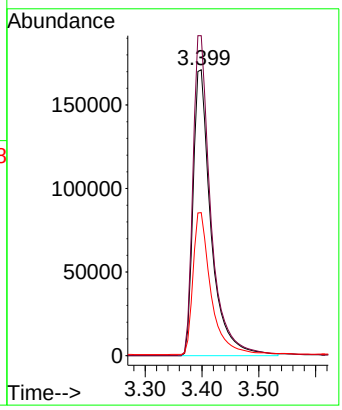




#3
Pyridine
Concen: 43.022 ng
RT: 3.399 min Scan# 2
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 79 Resp: 37366

Ion	Ratio	Lower	Upper
79	100		
52	112.0	90.5	135.7
51	50.0	40.6	61.0



Instrument :
BNA_F
ClientSampleId :
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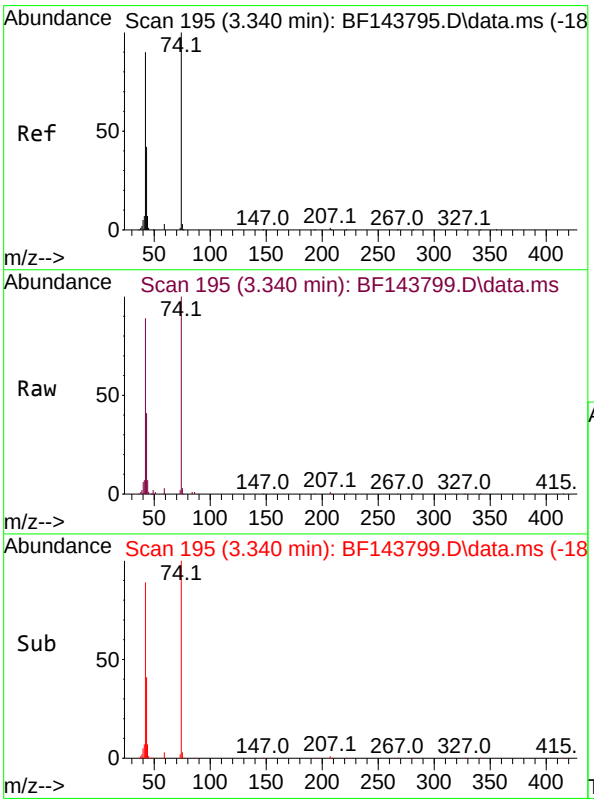
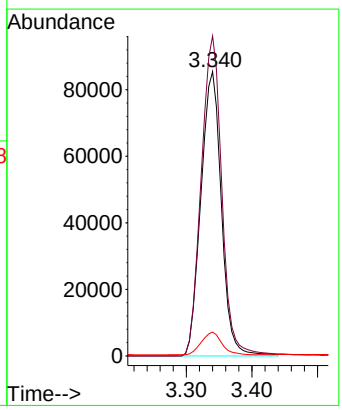
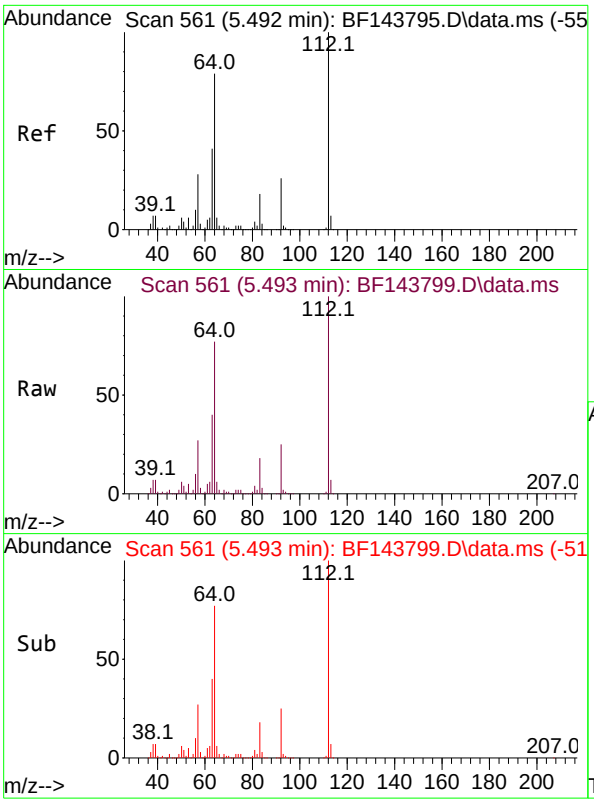


#4
n-Nitrosodimethylamine
Concen: 42.441 ng
RT: 3.340 min Scan# 195
Delta R.T. -0.017 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 42 Resp: 184836

Ion	Ratio	Lower	Upper
42	100		
74	112.6	89.1	133.7
44	8.3	6.4	9.6

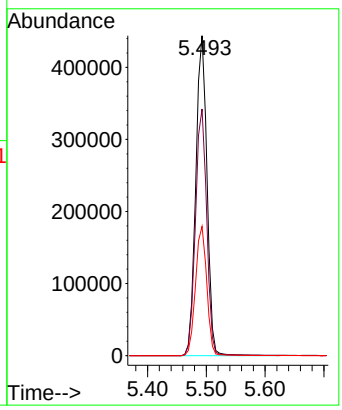




#5
2-Fluorophenol
Concen: 86.573 ng
RT: 5.493 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:112 Resp: 58754

Ion	Ratio	Lower	Upper
112	100		
64	77.1	63.0	94.4
63	40.4	32.6	49.0



Instrument :
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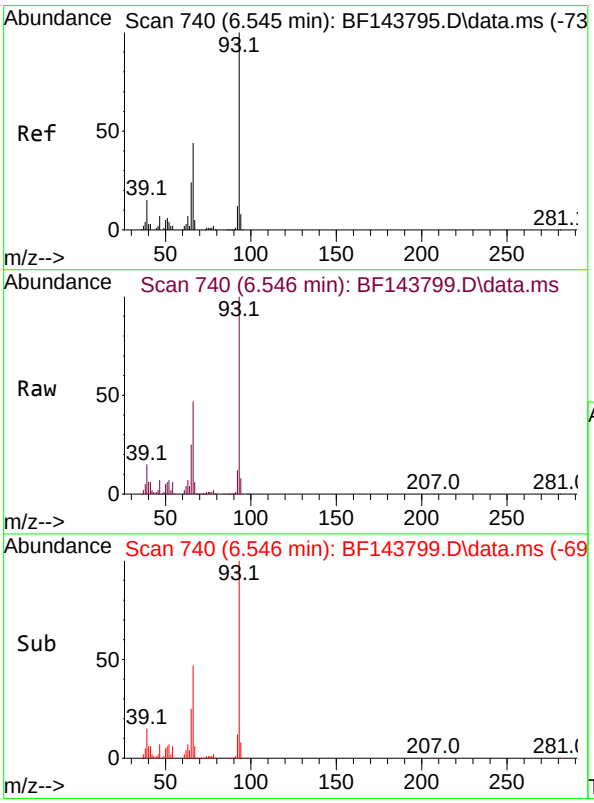
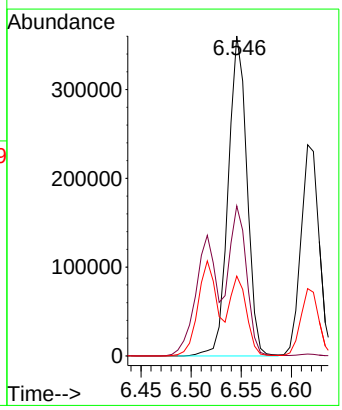
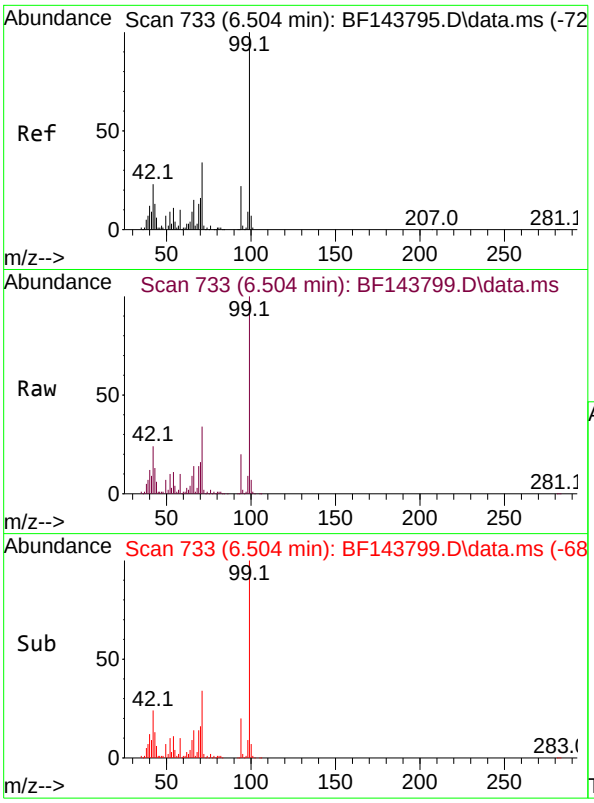


#6
Aniline
Concen: 41.592 ng
RT: 6.546 min Scan# 740
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 93 Resp: 468886

Ion	Ratio	Lower	Upper
93	100		
66	46.9	37.1	55.7
65	24.9	19.4	29.0

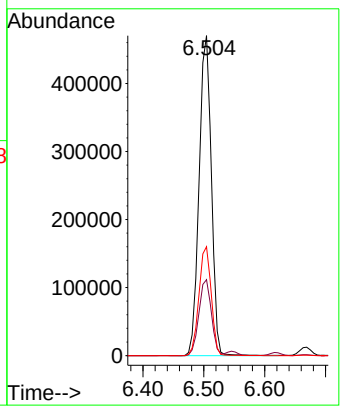




#7
Phenol-d6
Concen: 81.847 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 99 Resp: 65549

Ion	Ratio	Lower	Upper
99	100		
42	23.7	18.6	28.0
71	34.0	27.0	40.4



Instrument :
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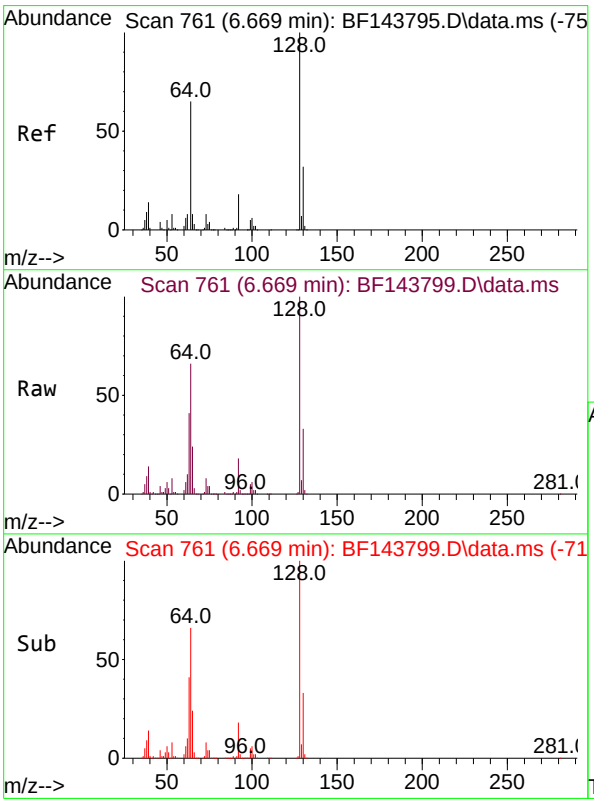
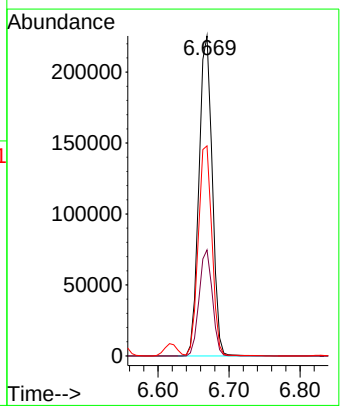
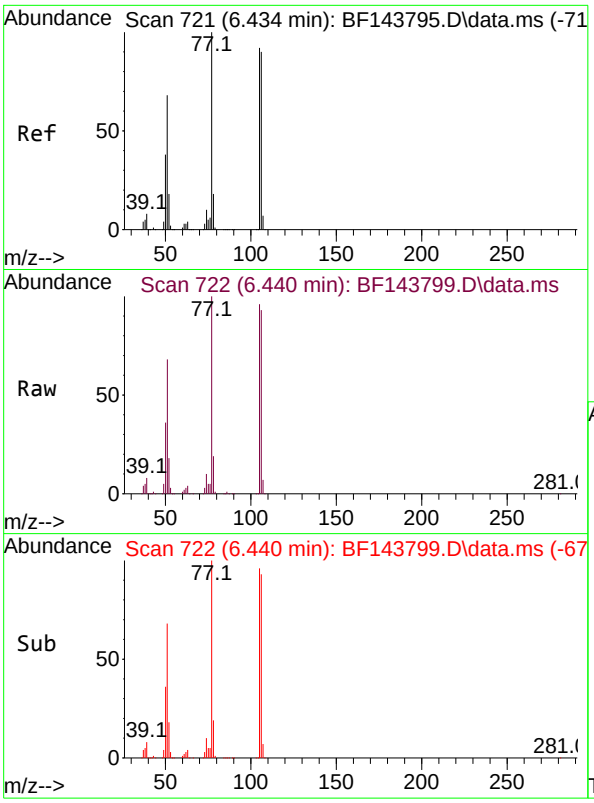


#8
2-Chlorophenol
Concen: 42.456 ng
RT: 6.669 min Scan# 761
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:128 Resp: 292186

Ion	Ratio	Lower	Upper
128	100		
130	33.1	12.2	52.2
64	65.6	46.5	86.5

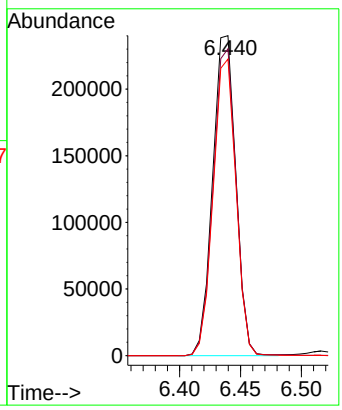




#9
Benzaldehyde
Concen: 46.667 ng
RT: 6.440 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 77 Resp: 31743

Ion	Ratio	Lower	Upper
77	100		
105	95.9	71.8	111.8
106	92.7	69.8	109.8



Instrument :
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ClientSampleId :
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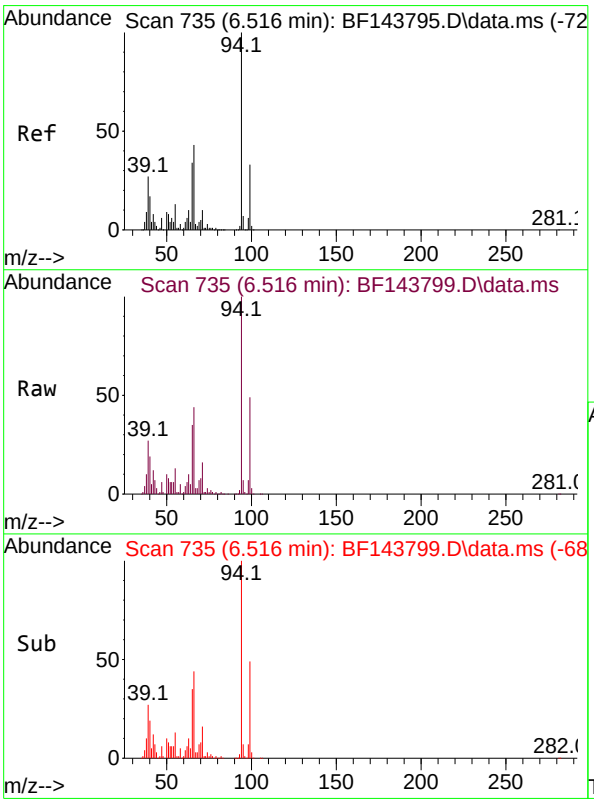
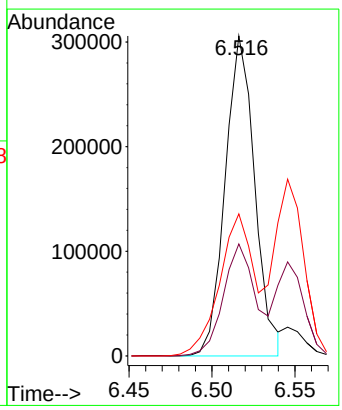
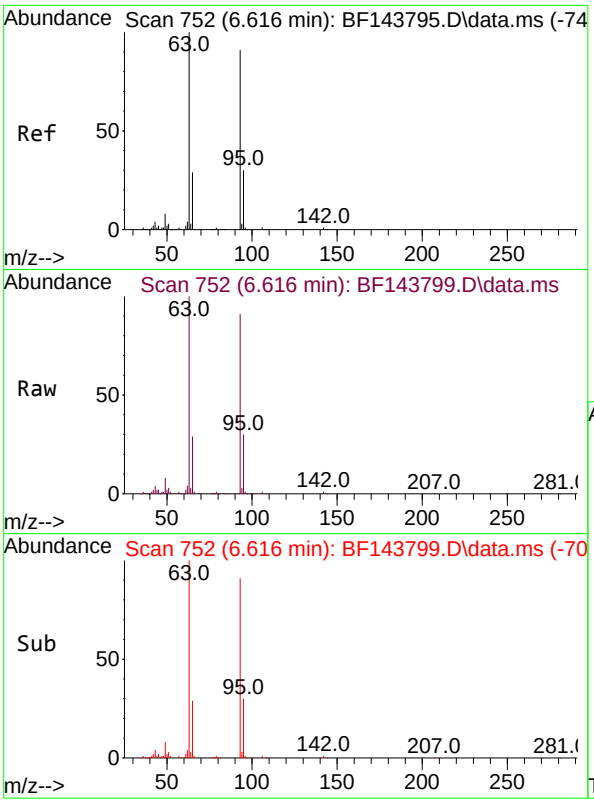


#10
Phenol
Concen: 41.956 ng m
RT: 6.516 min Scan# 735
Delta R.T. -0.012 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 94 Resp: 378799

Ion	Ratio	Lower	Upper
94	100		
65	35.0	14.2	54.2
66	44.4	24.1	64.1

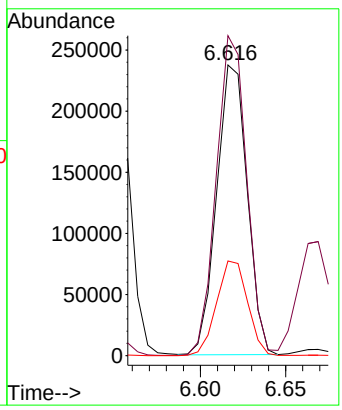




#11
bis(2-Chloroethyl)ether
Concen: 41.891 ng
RT: 6.616 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 93 Resp: 29647

Ion	Ratio	Lower	Upper
93	100		
63	110.1	89.2	129.2
95	32.5	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
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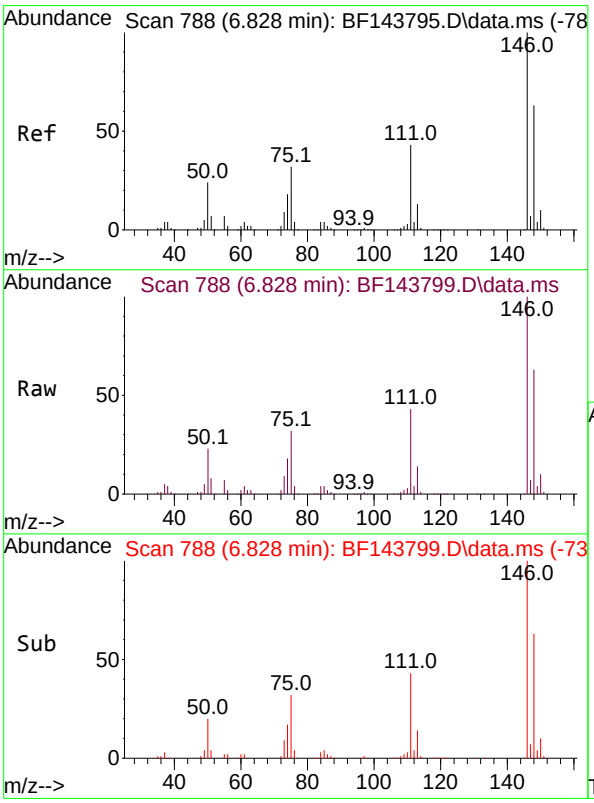
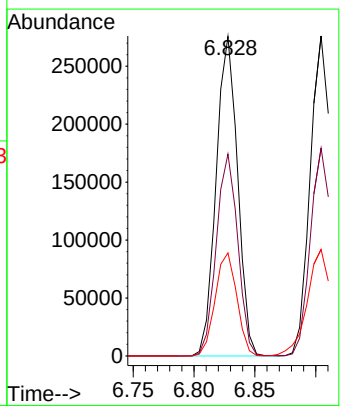
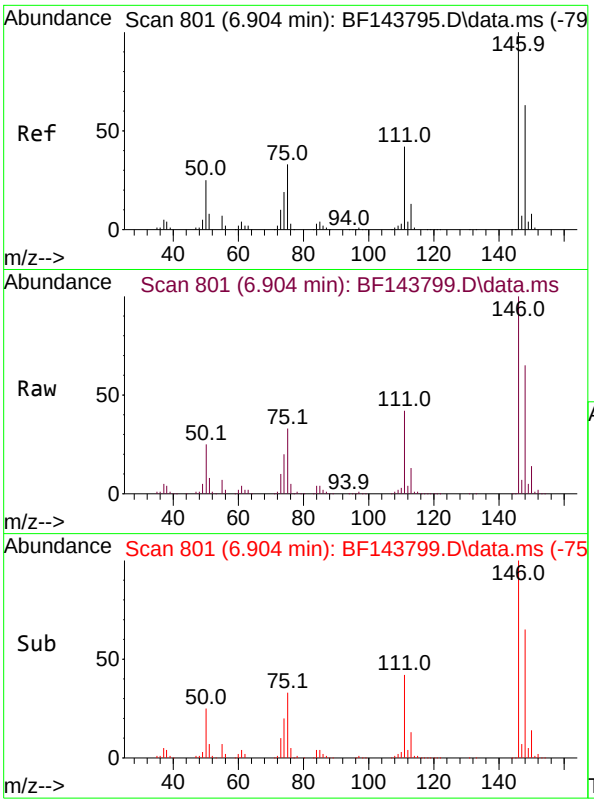


#12
1,3-Dichlorobenzene
Concen: 42.271 ng
RT: 6.828 min Scan# 788
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:146 Resp: 337770

Ion	Ratio	Lower	Upper
146	100		
148	63.2	50.4	75.6
75	32.3	25.6	38.4

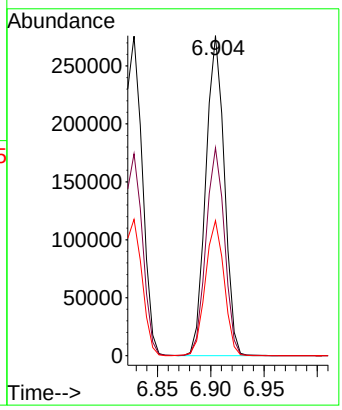




#13
1,4-Dichlorobenzene
Concen: 41.859 ng
RT: 6.904 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:146 Resp: 33379

Ion	Ratio	Lower	Upper
146	100		
148	64.9	50.7	76.1
111	42.2	33.4	50.2



Instrument :
BNA_F
ClientSampleId :
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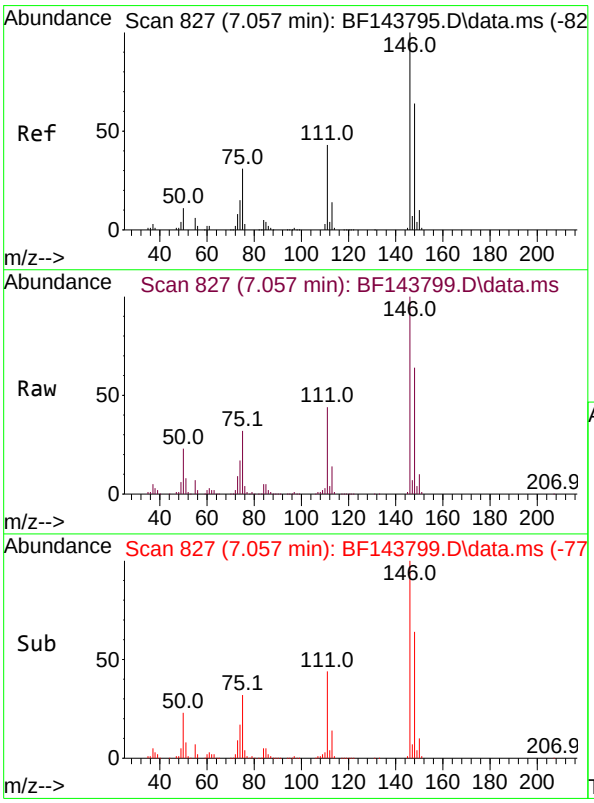
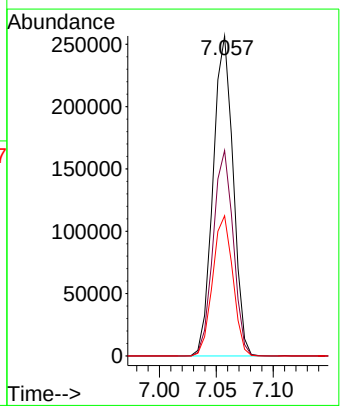
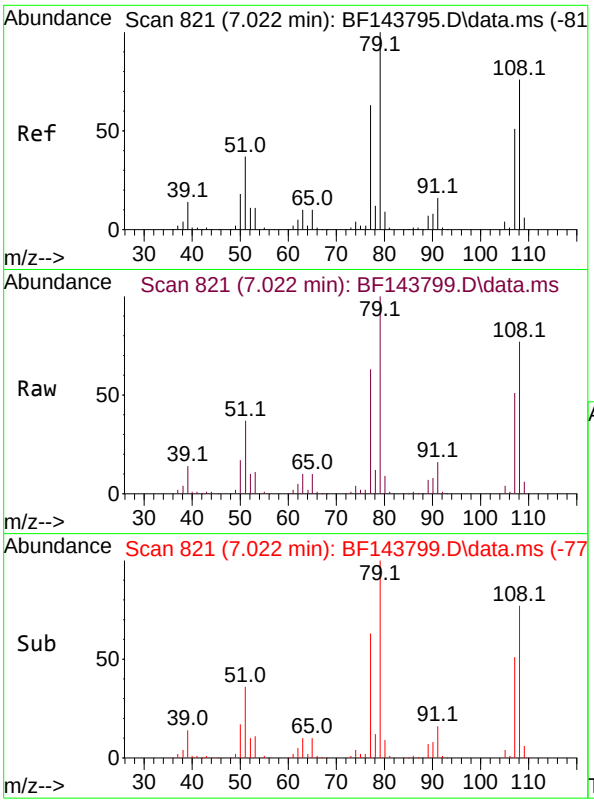


#14
1,2-Dichlorobenzene
Concen: 41.736 ng
RT: 7.057 min Scan# 827
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:146 Resp: 315213

Ion	Ratio	Lower	Upper
146	100		
148	64.2	51.1	76.7
111	43.8	34.3	51.5

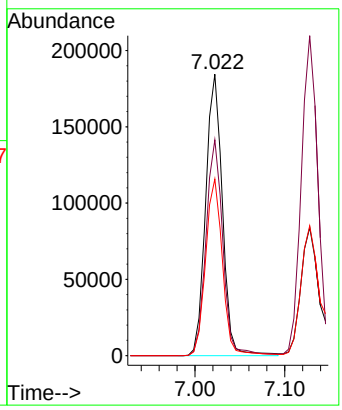




#15
Benzyl Alcohol
Concen: 42.558 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 79 Resp: 23885

Ion	Ratio	Lower	Upper
79	100		
108	76.7	60.5	90.7
77	62.8	50.3	75.5



Instrument :
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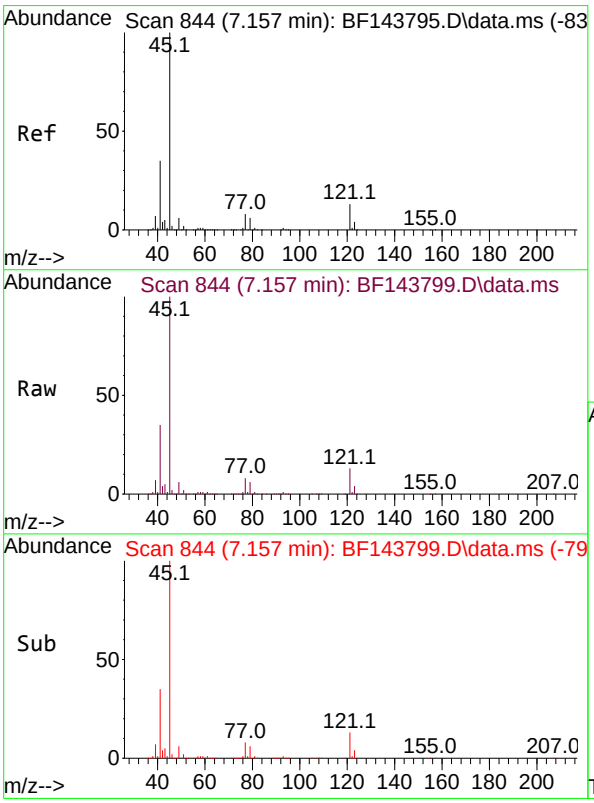
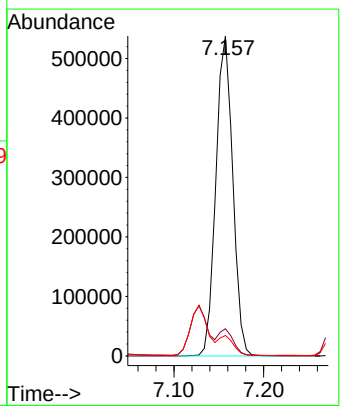
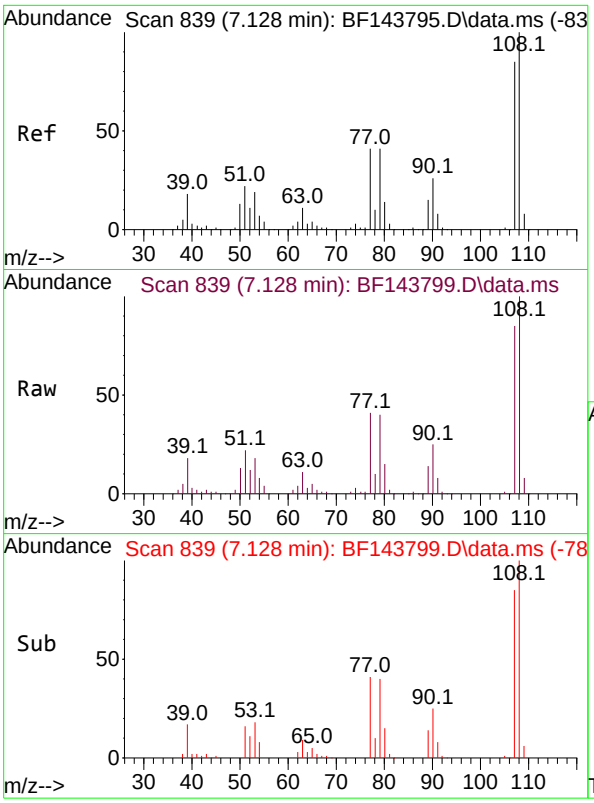


#16
2,2'-oxybis(1-Chloropropane)
Concen: 41.868 ng
RT: 7.157 min Scan# 844
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 45 Resp: 702630

Ion	Ratio	Lower	Upper
45	100		
77	8.5	0.0	28.5
79	6.4	0.0	26.3

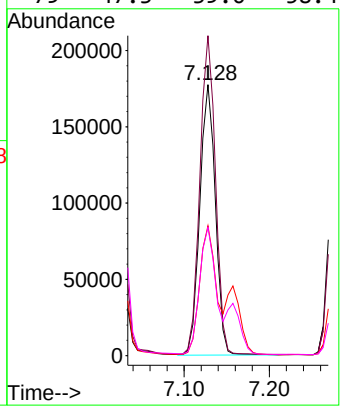




#17
2-Methylphenol
Concen: 42.304 ng
RT: 7.128 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:107 Resp: 22539

Ion	Ratio	Lower	Upper
107	100		
108	118.1	94.2	141.4
77	47.9	38.6	58.0
79	47.3	39.0	58.4



Instrument :
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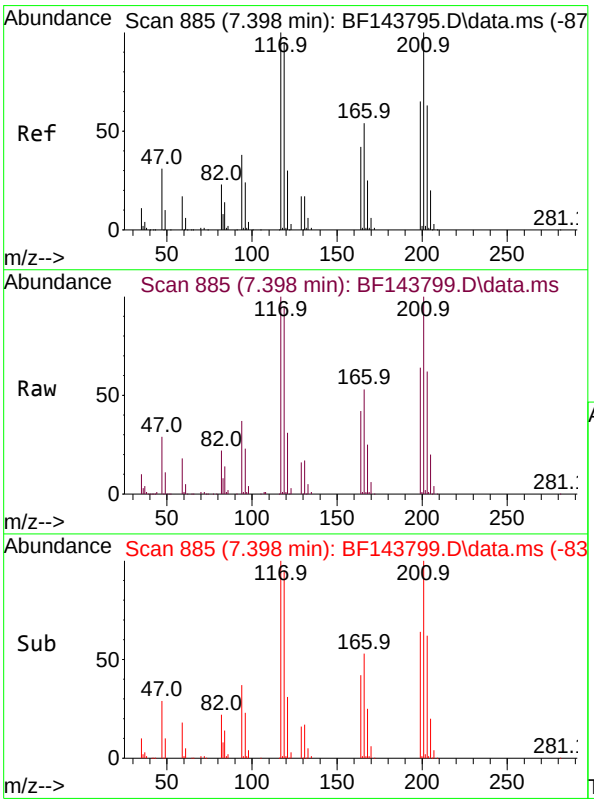
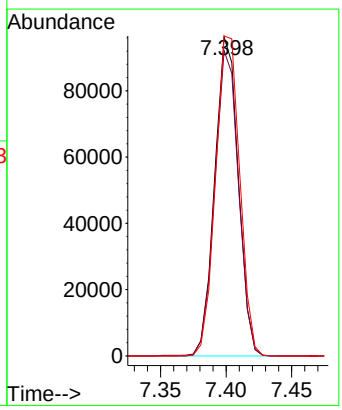
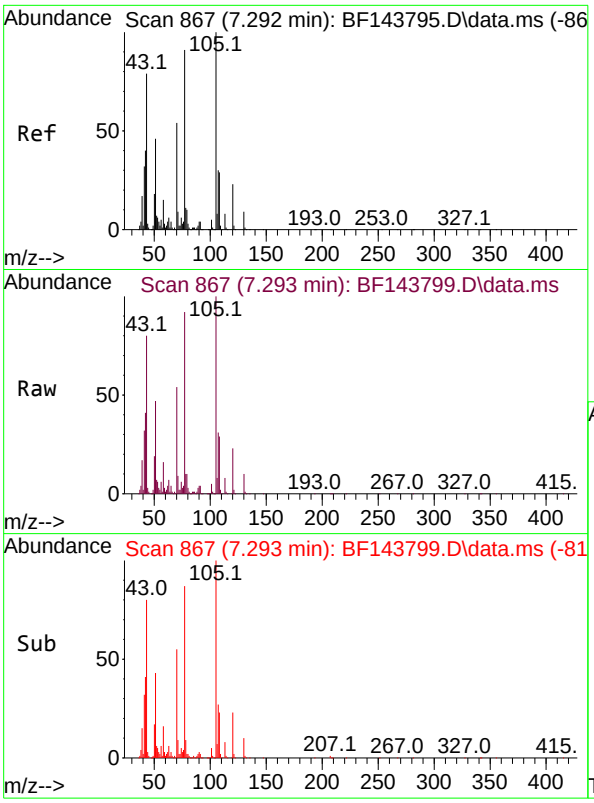


#18
Hexachloroethane
Concen: 42.878 ng
RT: 7.398 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:117 Resp: 120246

Ion	Ratio	Lower	Upper
117	100		
119	95.8	76.2	114.2
201	100.4	79.7	119.5

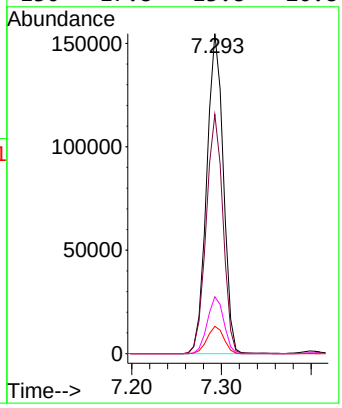




#19
n-Nitroso-di-n-propylamine
Concen: 39.810 ng
RT: 7.293 min Scan# 8
Delta R.T. -0.012 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 70 Resp: 19884

Ion	Ratio	Lower	Upper
70	100		
42	74.7	59.4	89.0
101	8.5	7.1	10.7
130	17.8	13.8	20.8



Instrument :
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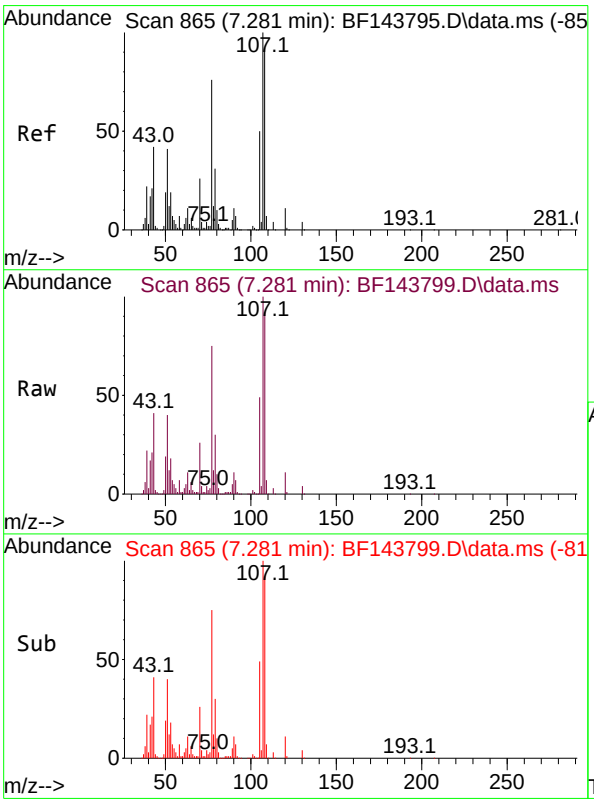
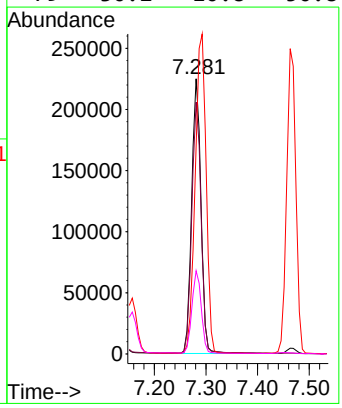
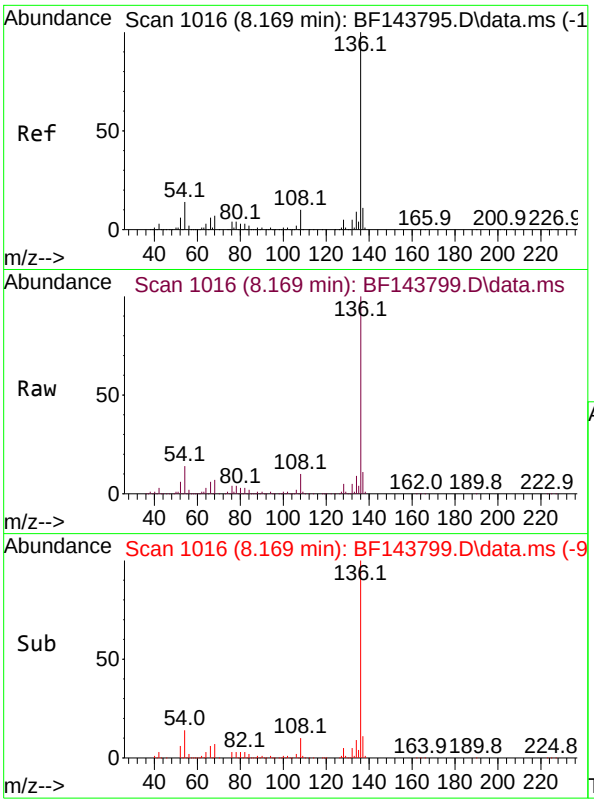


#20
3+4-Methylphenols
Concen: 43.619 ng
RT: 7.281 min Scan# 865
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:107 Resp: 283024

Ion	Ratio	Lower	Upper
107	100		
108	91.5	72.5	112.5
77	75.4	56.2	96.2
79	30.2	10.8	50.8

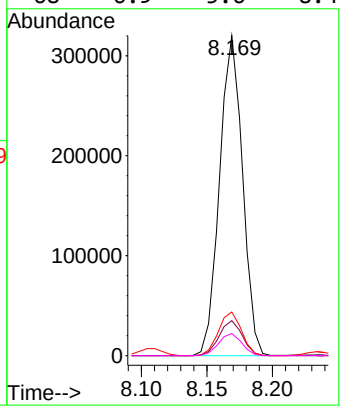




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 10
Delta R.T. -0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:136 Resp: 39032

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	13.6	11.2	16.8
68	6.9	5.6	8.4



Instrument :
BNA_F
ClientSampleId :
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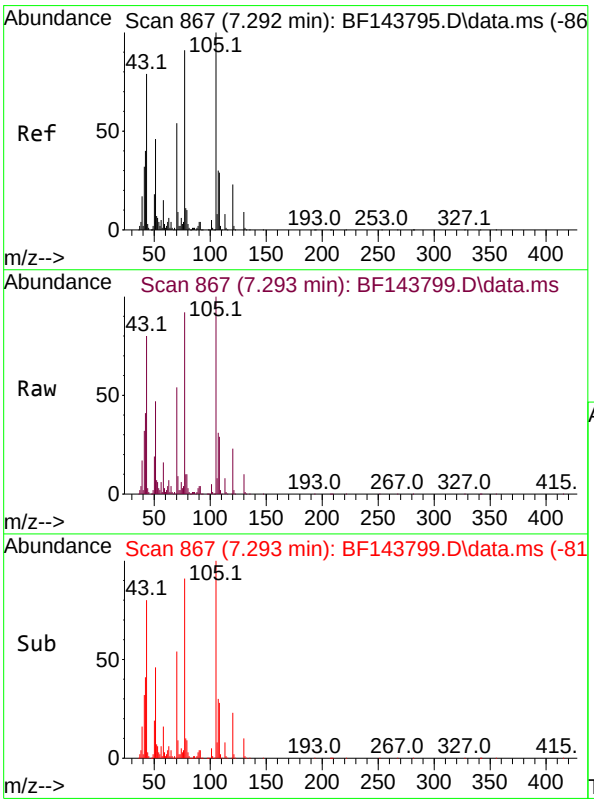
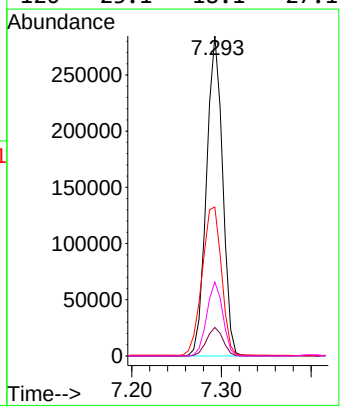
Supervised By :Jagrut Upadhyay 09/24/2025

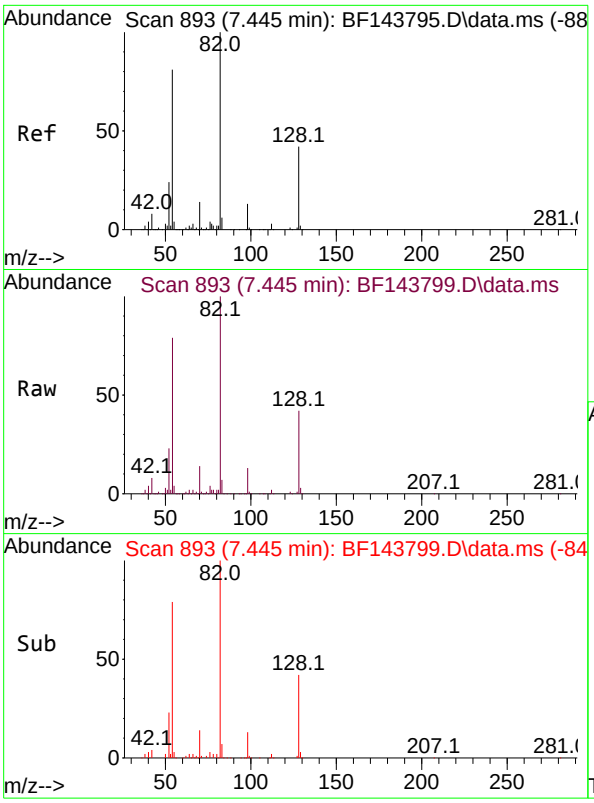


#22
Acetophenone
Concen: 41.524 ng
RT: 7.293 min Scan# 867
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:105 Resp: 355985

Ion	Ratio	Lower	Upper
105	100		
71	8.9	7.0	10.4
51	46.5	36.6	55.0
120	23.1	18.1	27.1

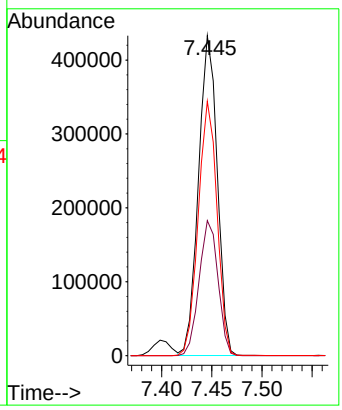




#23
Nitrobenzene-d5
Concen: 90.799 ng
RT: 7.445 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 82 Resp: 56315

Ion	Ratio	Lower	Upper
82	100		
128	42.2	33.3	49.9
54	79.5	64.2	96.4



Instrument :
BNA_F
ClientSampleId :
ICVBF092325

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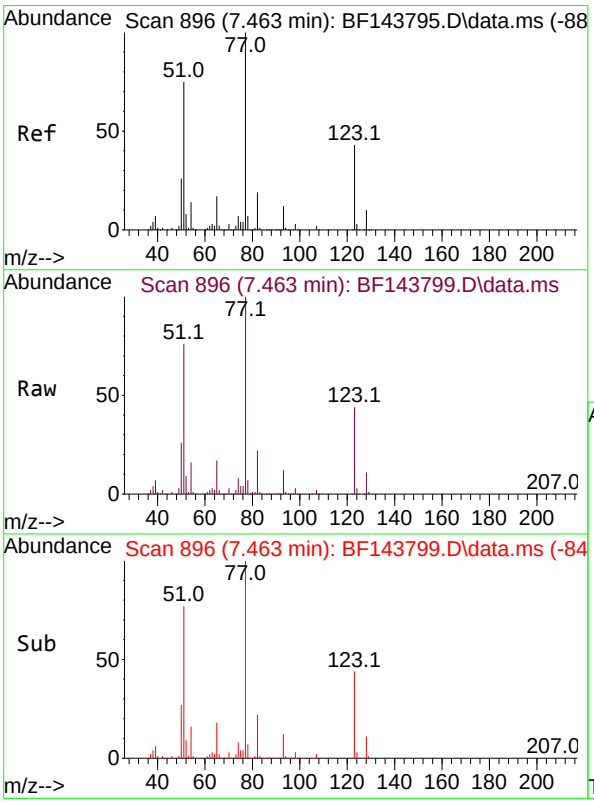
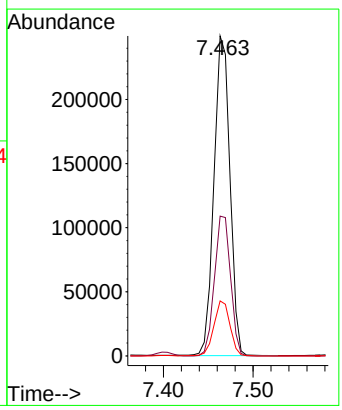
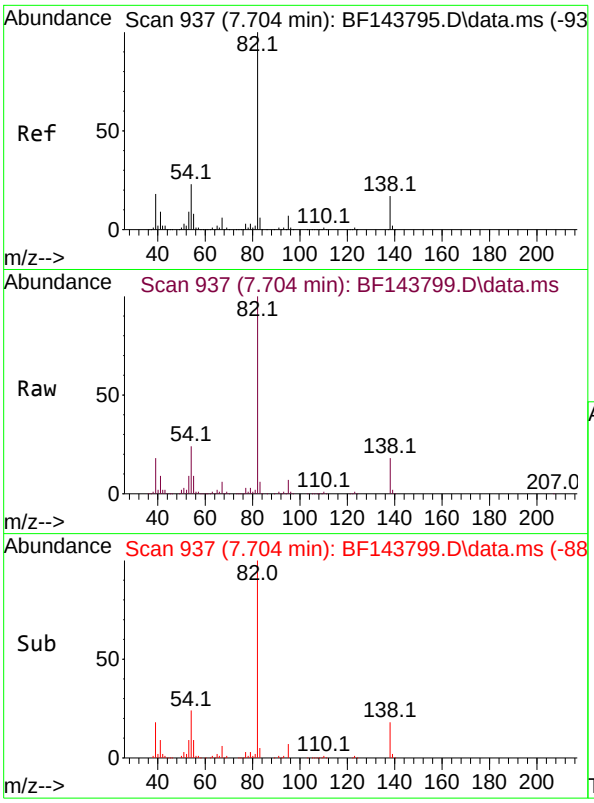


#24
Nitrobenzene
Concen: 43.582 ng
RT: 7.463 min Scan# 896
Delta R.T. -0.012 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 77 Resp: 308041

Ion	Ratio	Lower	Upper
77	100		
123	43.7	34.0	51.0
65	17.2	13.5	20.3

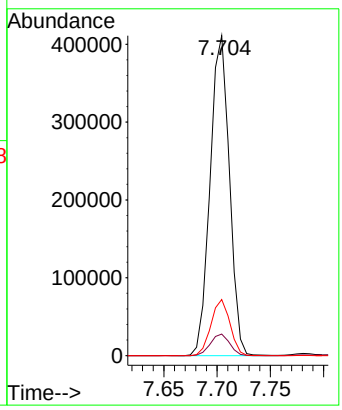




#25
Isophorone
Concen: 41.778 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 82 Resp: 51913

Ion	Ratio	Lower	Upper
82	100		
95	6.7	5.4	8.2
138	17.5	13.7	20.5



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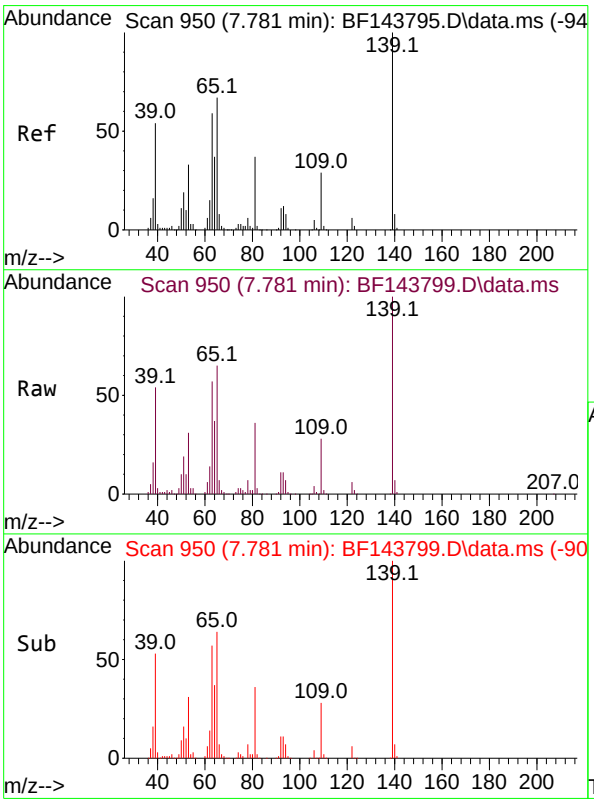
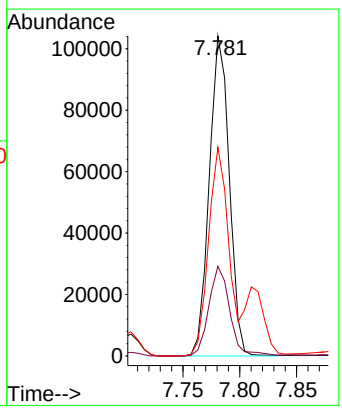
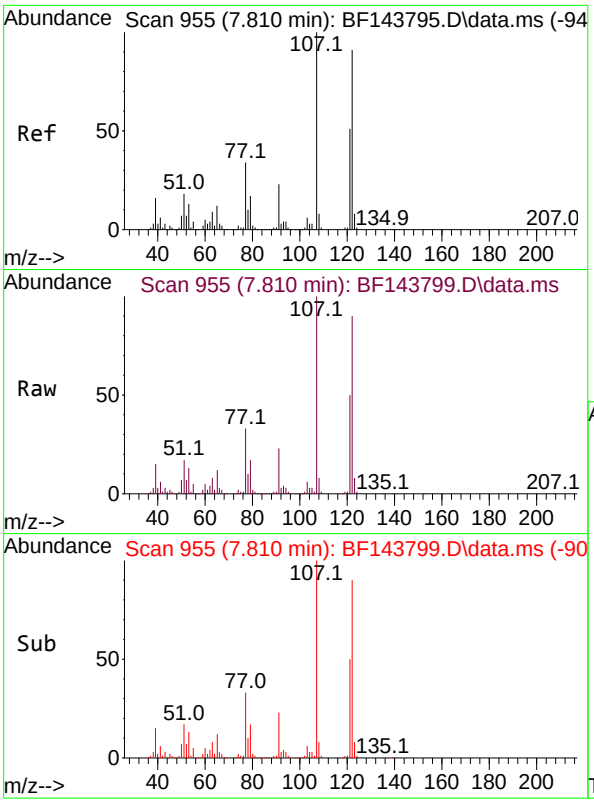


#26
2-Nitrophenol
Concen: 44.135 ng
RT: 7.781 min Scan# 950
Delta R.T. -0.005 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:139 Resp: 127397

Ion	Ratio	Lower	Upper
139	100		
109	28.0	23.3	34.9
65	65.2	53.8	80.6

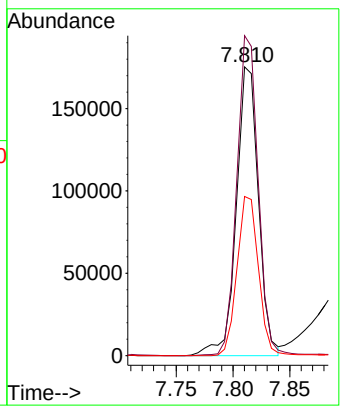




#27
2,4-Dimethylphenol
Concen: 42.725 ng
RT: 7.810 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:122 Resp: 23729

Ion	Ratio	Lower	Upper
122	100		
107	110.8	87.5	131.3
121	55.1	44.2	66.4



Instrument :
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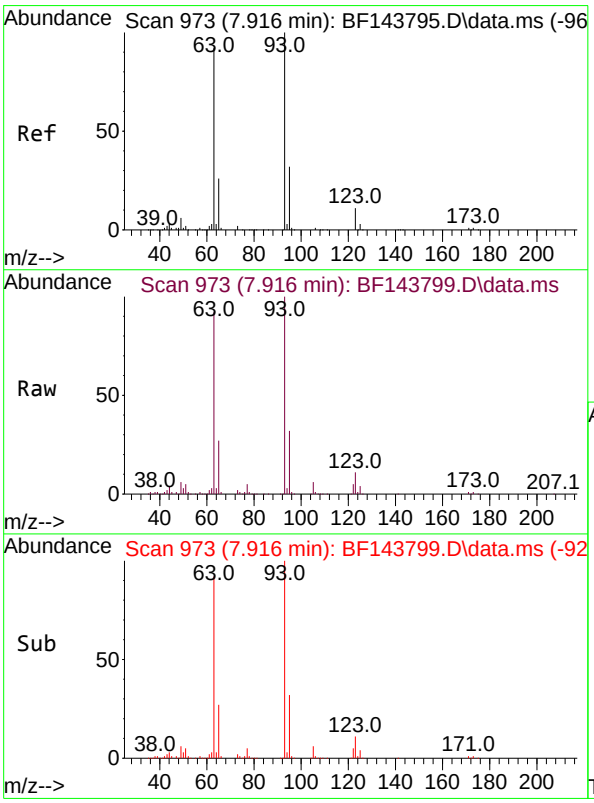
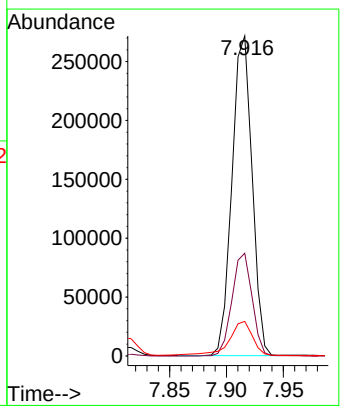
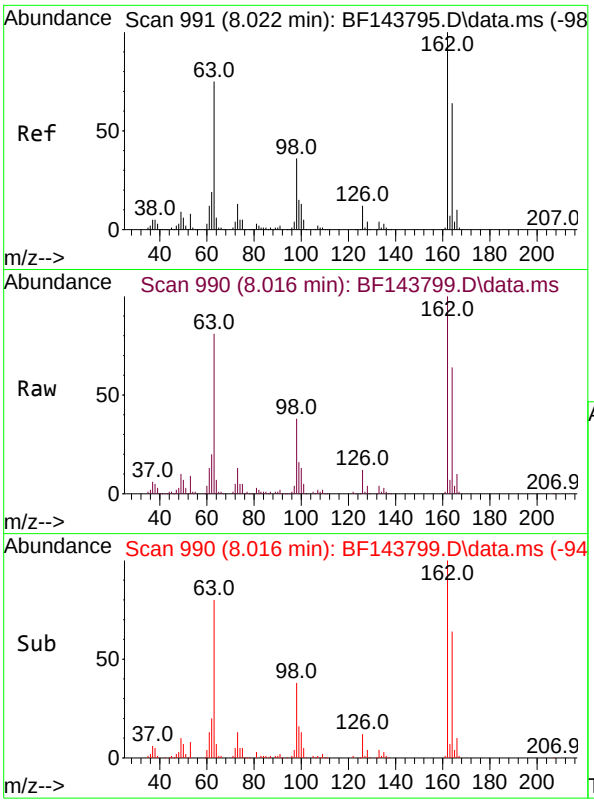


#28
bis(2-Chloroethoxy)methane
Concen: 41.459 ng
RT: 7.916 min Scan# 973
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 93 Resp: 334704

Ion	Ratio	Lower	Upper
93	100		
95	32.1	25.8	38.8
123	10.8	8.8	13.2





#29
2,4-Dichlorophenol
Concen: 42.921 ng
RT: 8.016 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:162 Resp: 23456

Ion	Ratio	Lower	Upper
162	100		
164	64.3	44.1	84.1
98	38.0	15.8	55.8

Instrument :
BNA_F
ClientSampleId :
ICVBF092325

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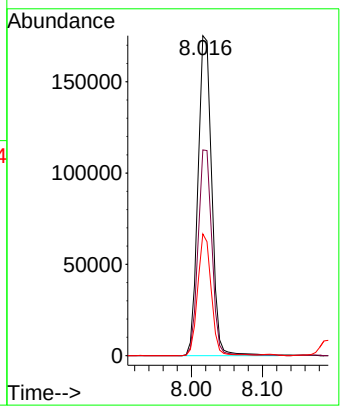
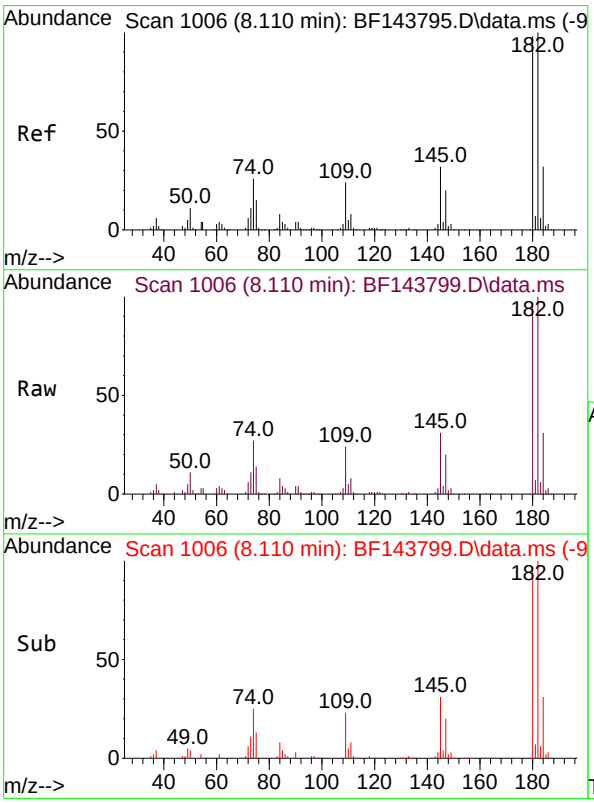
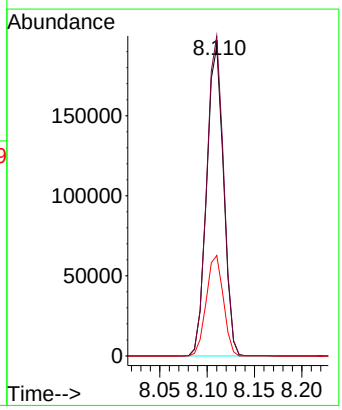


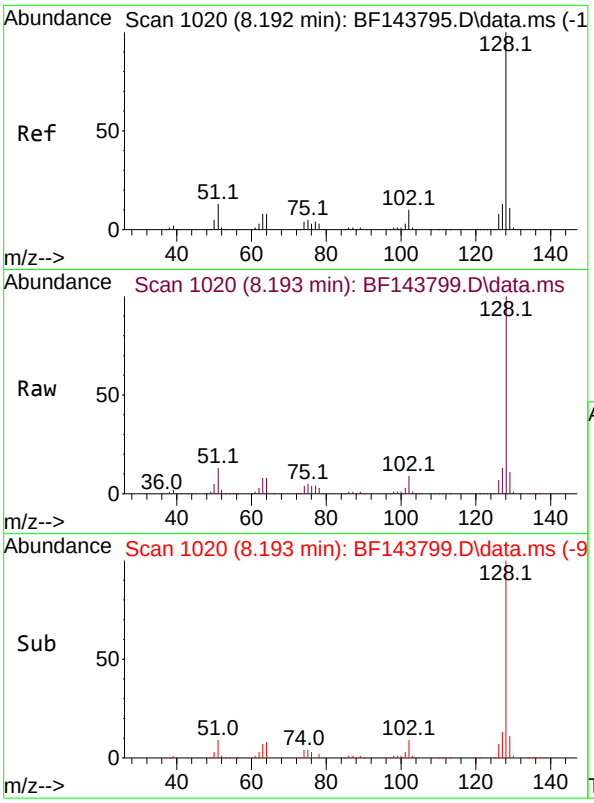


#30
1,2,4-Trichlorobenzene
Concen: 42.395 ng
RT: 8.110 min Scan# 1006
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:180 Resp: 240436

Ion	Ratio	Lower	Upper
180	100		
182	103.4	82.0	123.0
145	32.4	25.9	38.9

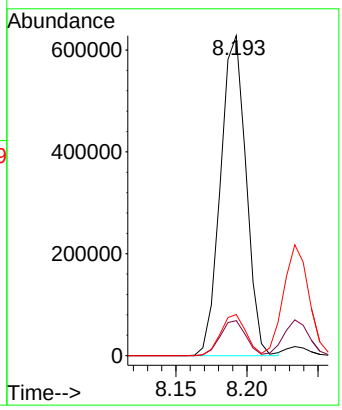




#31
Naphthalene
Concen: 42.019 ng
RT: 8.193 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:128 Resp: 78513

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.8	13.2
127	12.8	10.2	15.4



Instrument :
BNA_F
ClientSampleId :
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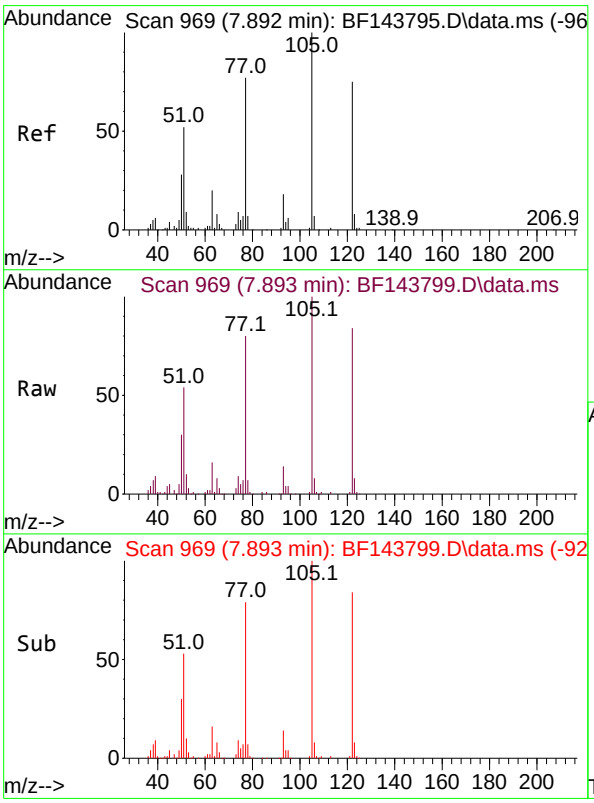
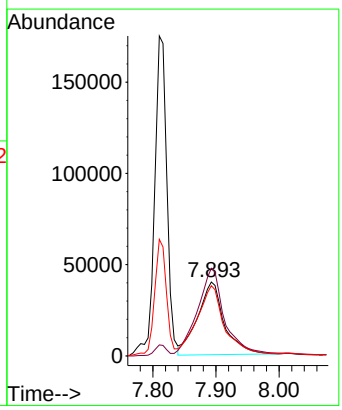
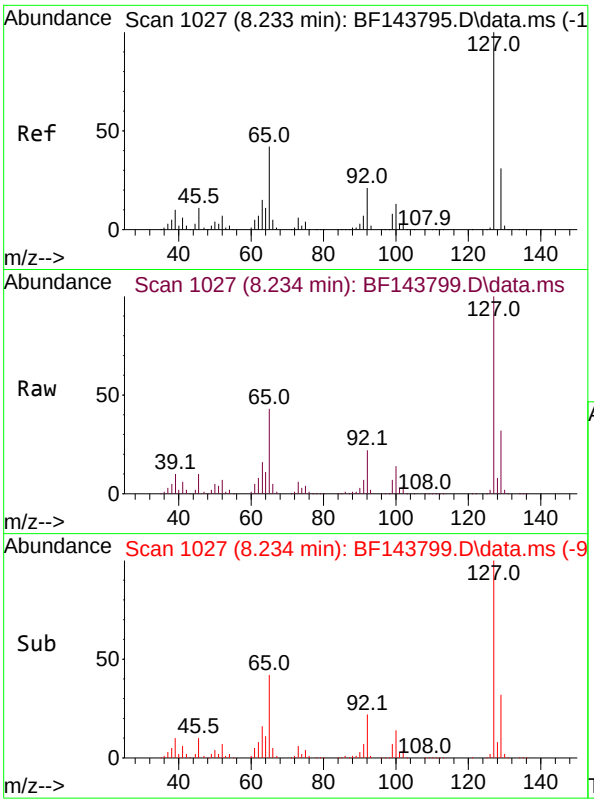


#32
Benzoic acid
Concen: 43.922 ng
RT: 7.893 min Scan# 969
Delta R.T. -0.029 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:122 Resp: 117697

Ion	Ratio	Lower	Upper
122	100		
105	118.7	103.7	143.7
77	94.9	78.8	118.8

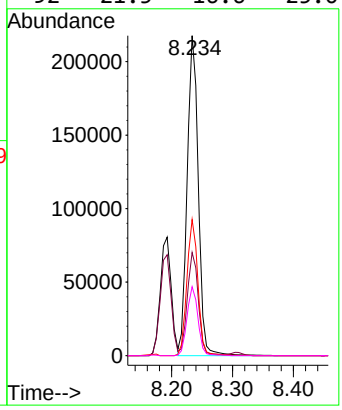




#33
4-Chloroaniline
Concen: 41.955 ng
RT: 8.234 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:127 Resp: 27548

Ion	Ratio	Lower	Upper
127	100		
129	32.2	25.4	38.2
65	42.5	33.4	50.2
92	21.5	16.6	25.0



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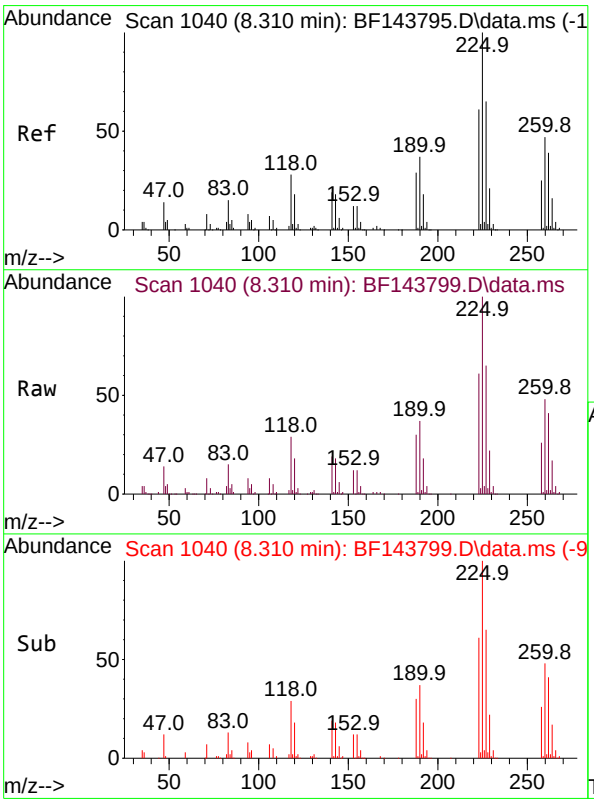
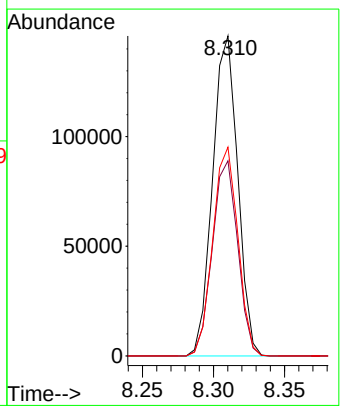
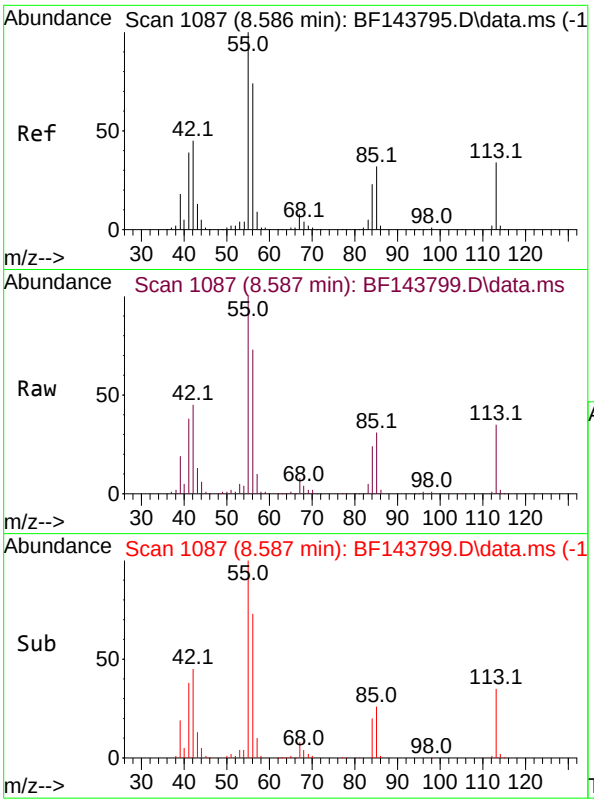


#34
Hexachlorobutadiene
Concen: 42.413 ng
RT: 8.310 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:225 Resp: 179313

Ion	Ratio	Lower	Upper
225	100		
223	61.0	48.6	72.8
227	65.2	51.9	77.9





#35
Caprolactam
Concen: 44.018 ng
RT: 8.587 min Scan# 10
Delta R.T. -0.023 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:113 Resp: 6148

Ion	Ratio	Lower	Upper
113	100		
55	284.8	271.7	311.7
56	209.2	194.5	234.5

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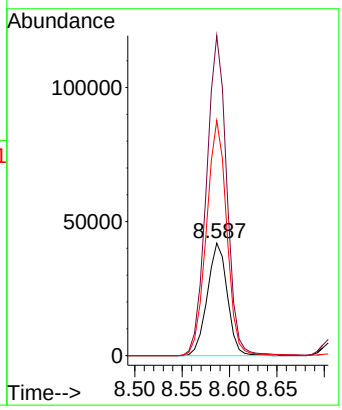
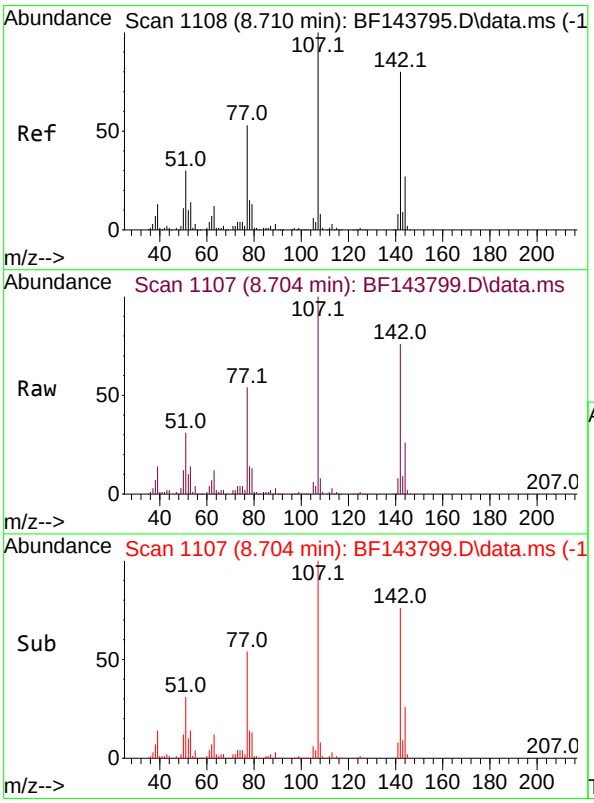
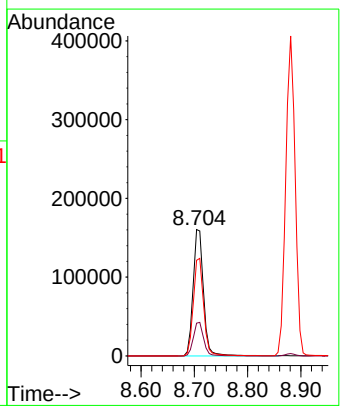


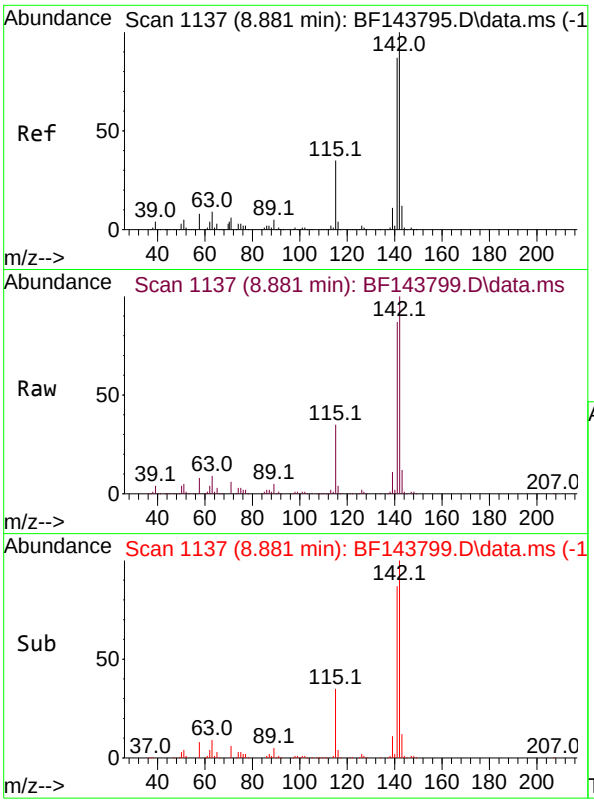


#36
4-Chloro-3-methylphenol
Concen: 42.485 ng
RT: 8.704 min Scan# 1107
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:107 Resp: 217750

Ion	Ratio	Lower	Upper
107	100		
144	26.0	21.8	32.8
142	75.7	63.6	95.4

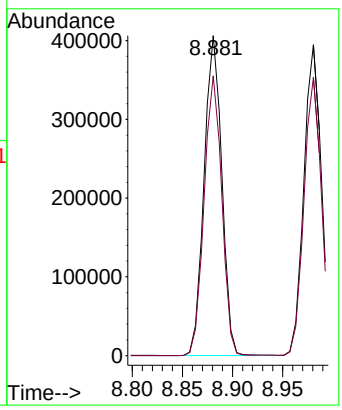




#37
2-Methylnaphthalene
Concen: 41.689 ng
RT: 8.881 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:142 Resp: 49670

Ion	Ratio	Lower	Upper
142	100		
141	87.4	69.4	104.0



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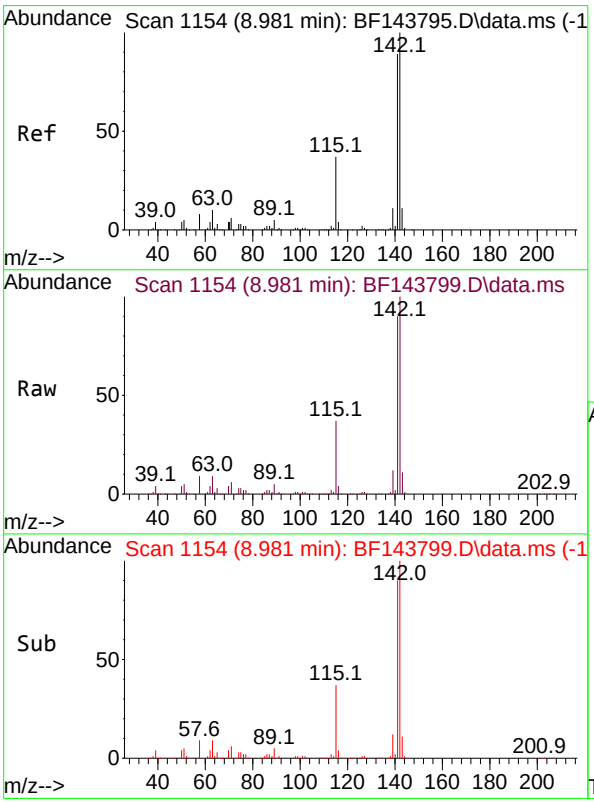
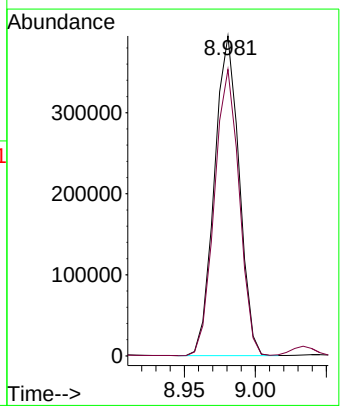
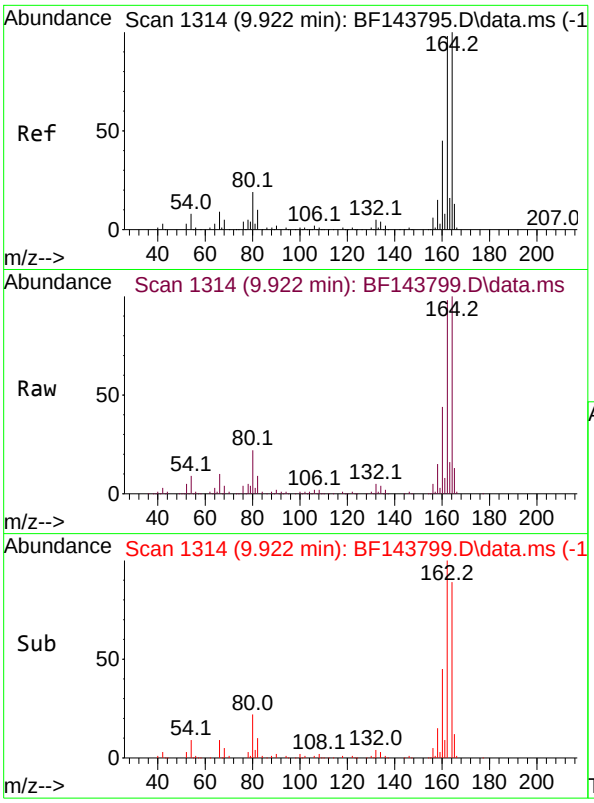


#38
1-Methylnaphthalene
Concen: 41.968 ng
RT: 8.981 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:142 Resp: 478612

Ion	Ratio	Lower	Upper
142	100		
141	89.5	71.1	106.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:164 Resp: 19106

Ion	Ratio	Lower	Upper
164	100		
162	97.9	78.8	118.2
160	43.8	35.8	53.6

Instrument :
BNA_F
ClientSampleId :
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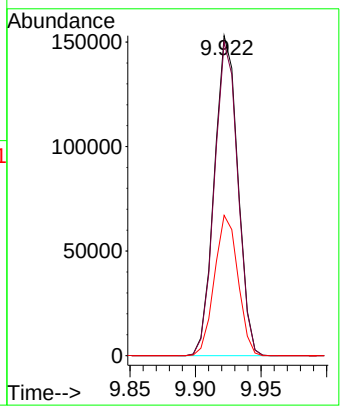
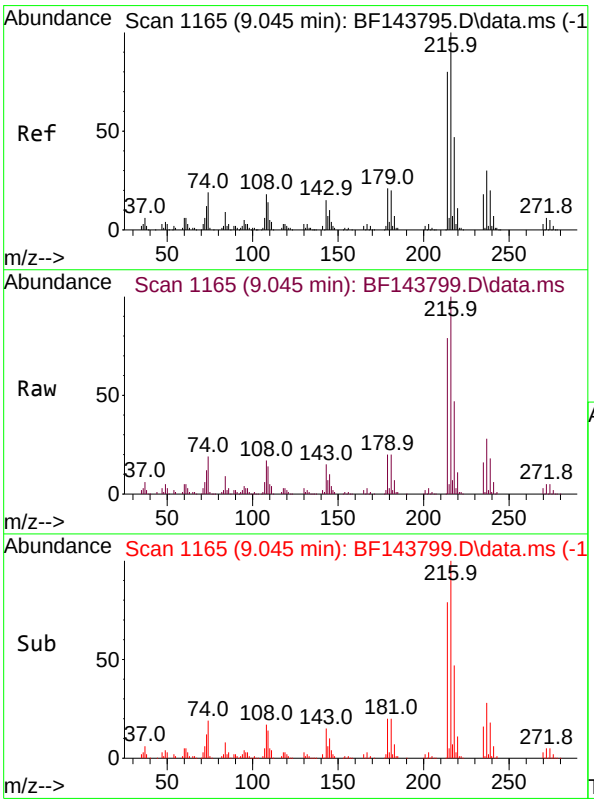
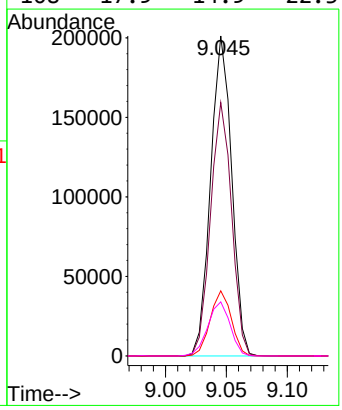


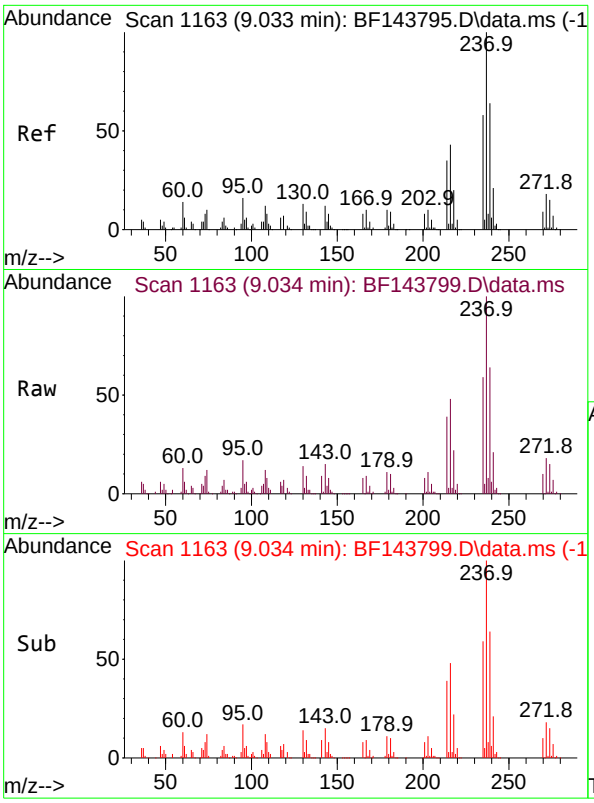


#40
1,2,4,5-Tetrachlorobenzene
Concen: 41.989 ng
RT: 9.045 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:216 Resp: 242106

Ion	Ratio	Lower	Upper
216	100		
214	79.0	63.7	95.5
179	20.4	16.5	24.7
108	17.9	14.9	22.3

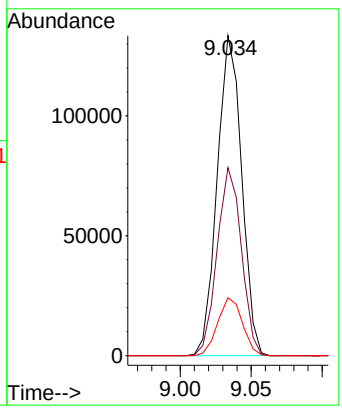




#41
Hexachlorocyclopentadiene
Concen: 43.786 ng
RT: 9.034 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:237 Resp: 160009

Ion	Ratio	Lower	Upper
237	100		
235	58.7	38.1	78.1
272	18.1	0.0	37.9



Instrument :
BNA_F
ClientSampleId :
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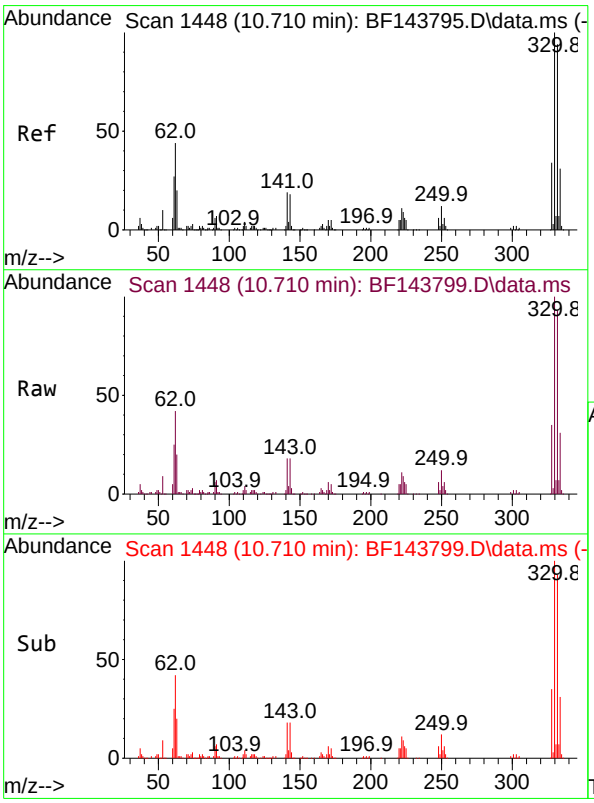
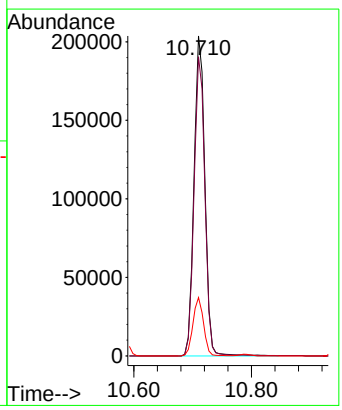
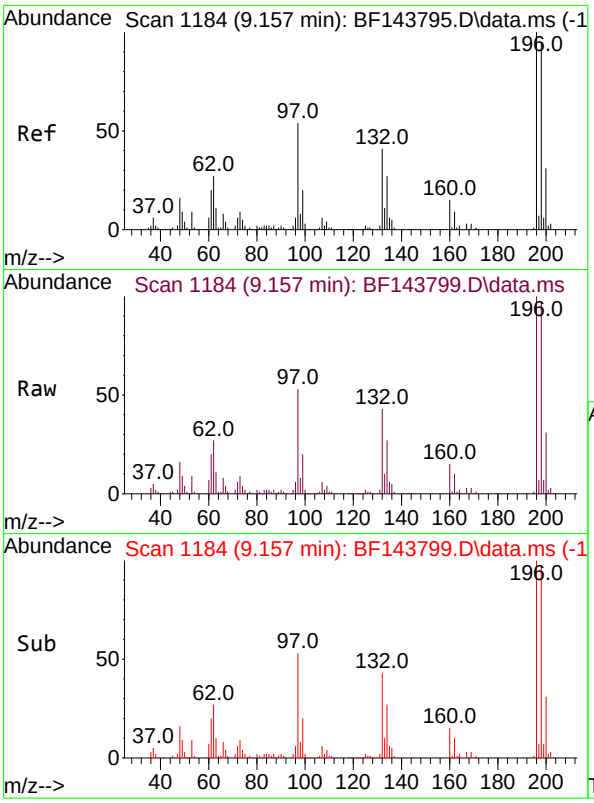


#42
2,4,6-Tribromophenol
Concen: 95.600 ng
RT: 10.710 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:330 Resp: 260676

Ion	Ratio	Lower	Upper
330	100		
332	93.5	74.7	112.1
141	17.8	14.3	21.5

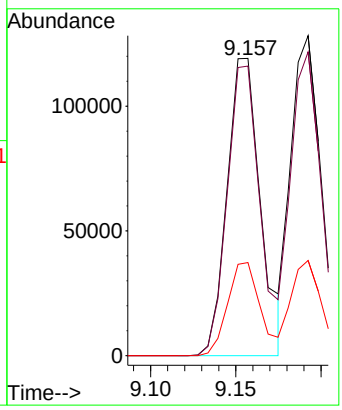




#43
2,4,6-Trichlorophenol
Concen: 45.018 ng
RT: 9.157 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:196 Resp: 16253

Ion	Ratio	Lower	Upper
196	100		
198	97.4	76.2	114.2
200	31.3	24.7	37.1



Instrument :
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ClientSampleId :
ICVBF092325

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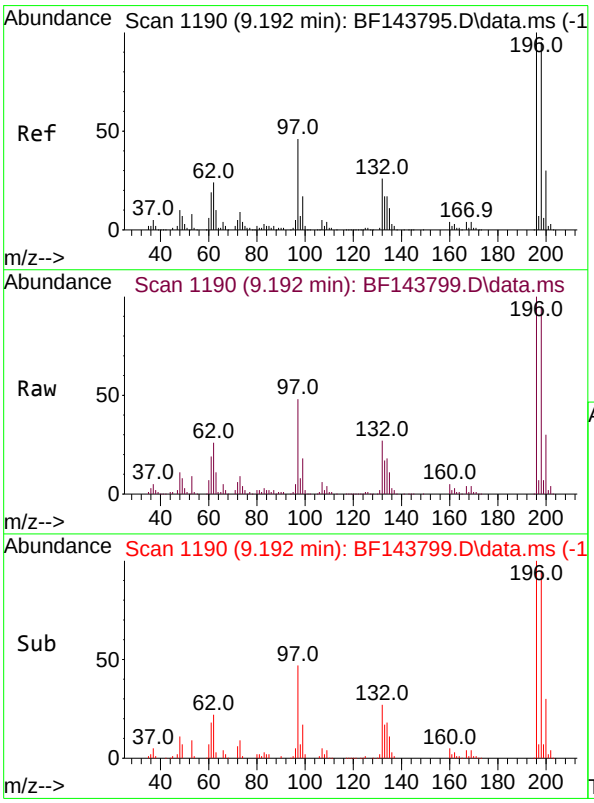
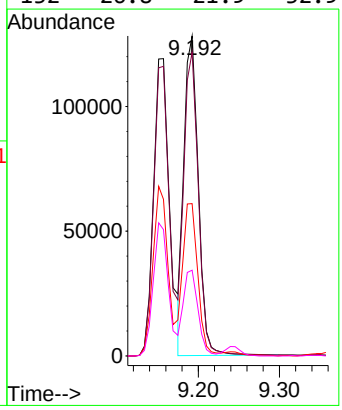
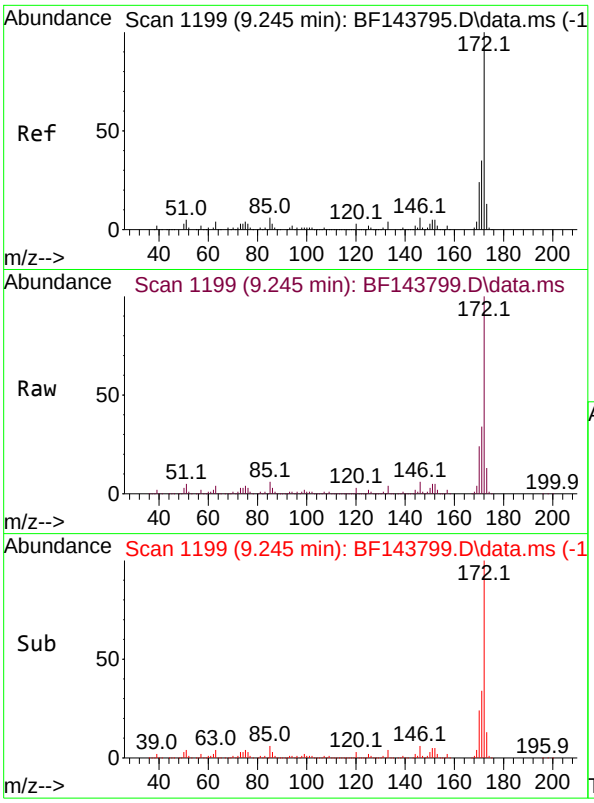


#44
2,4,5-Trichlorophenol
Concen: 42.310 ng
RT: 9.192 min Scan# 1190
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:196 Resp: 159783

Ion	Ratio	Lower	Upper
196	100		
198	94.9	75.9	113.9
97	47.6	38.3	57.5
132	26.8	21.9	32.9

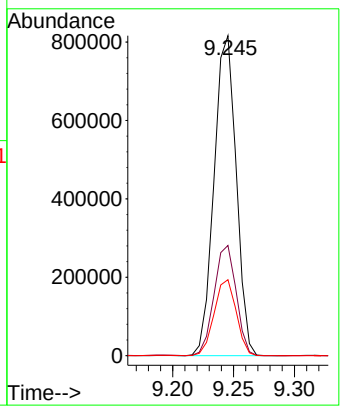




#45
2-Fluorobiphenyl
Concen: 79.843 ng
RT: 9.245 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:172 Resp: 103231

Ion	Ratio	Lower	Upper
172	100		
171	34.4	27.9	41.9
170	23.7	19.1	28.7



Instrument :
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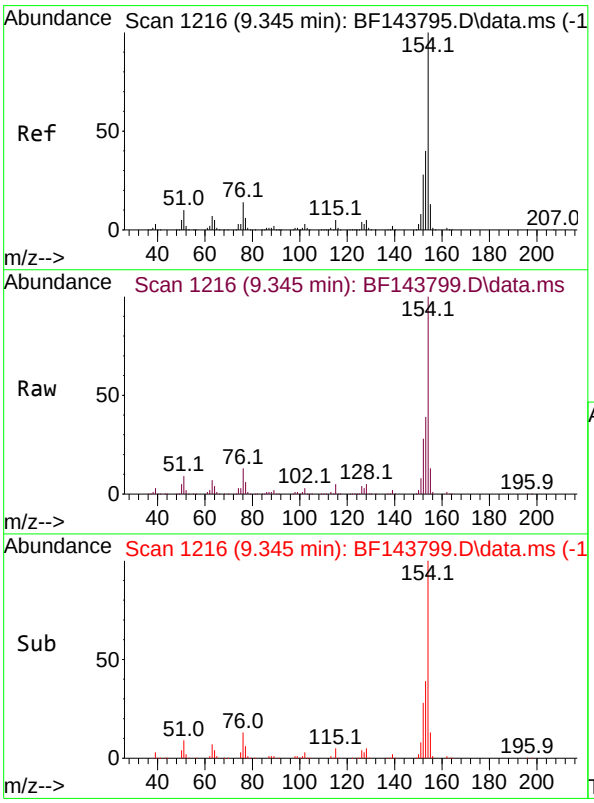
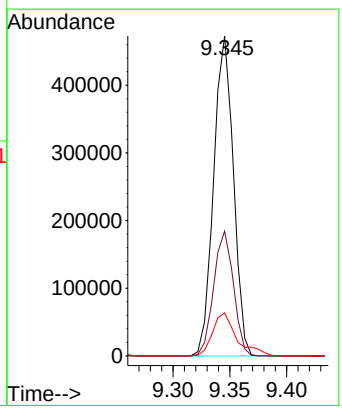
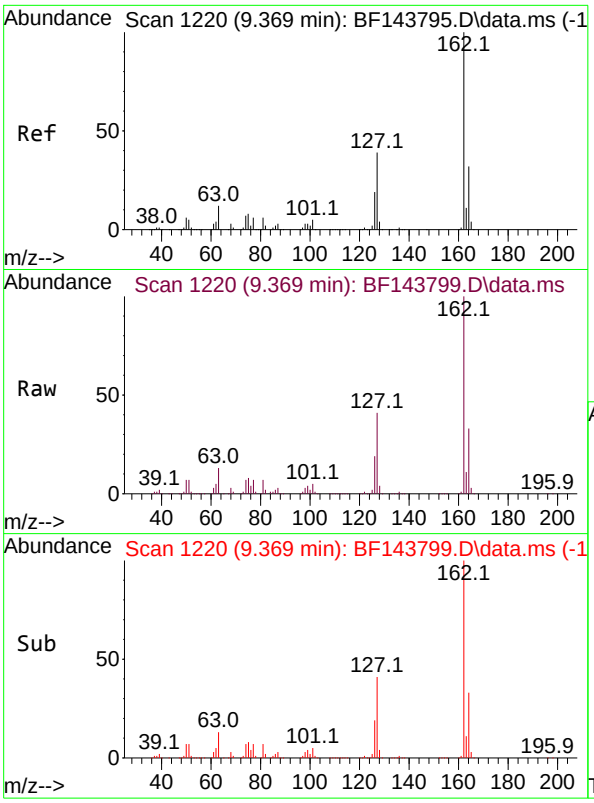


#46
1,1'-Biphenyl
Concen: 41.254 ng
RT: 9.345 min Scan# 1216
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:154 Resp: 570562

Ion	Ratio	Lower	Upper
154	100		
153	39.0	19.7	59.7
76	13.4	0.0	33.8

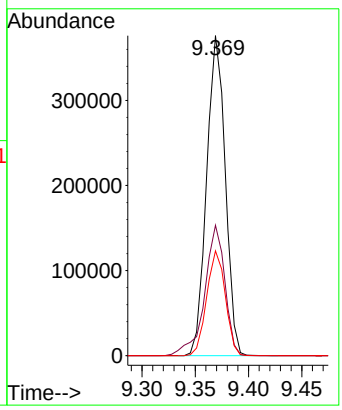




#47
2-Chloronaphthalene
Concen: 41.133 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:162 Resp: 45792

Ion	Ratio	Lower	Upper
162	100		
127	40.7	31.5	47.3
164	32.7	25.9	38.9



Instrument :
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ClientSampleId :
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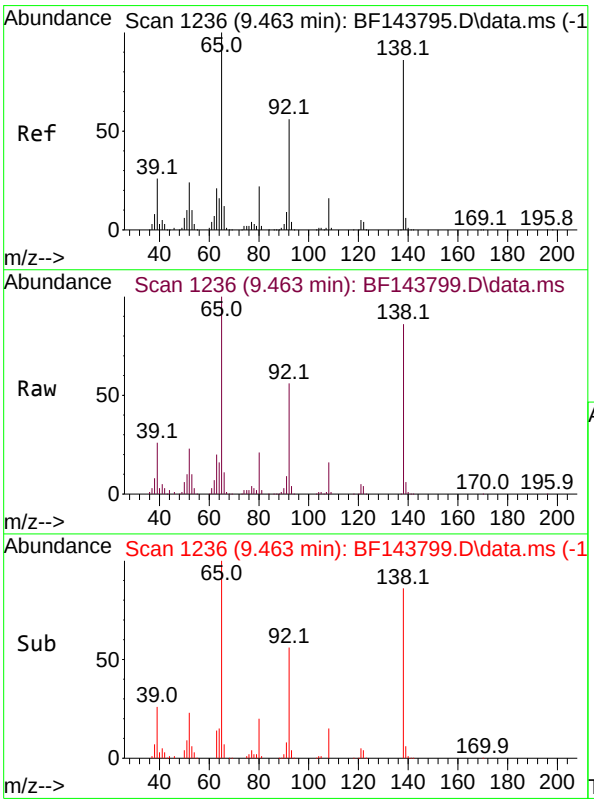
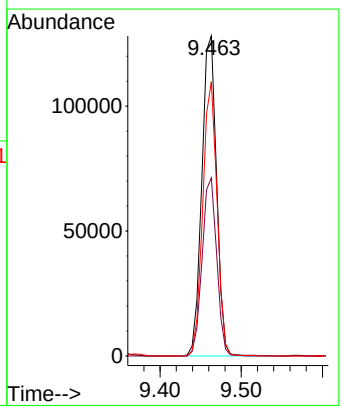
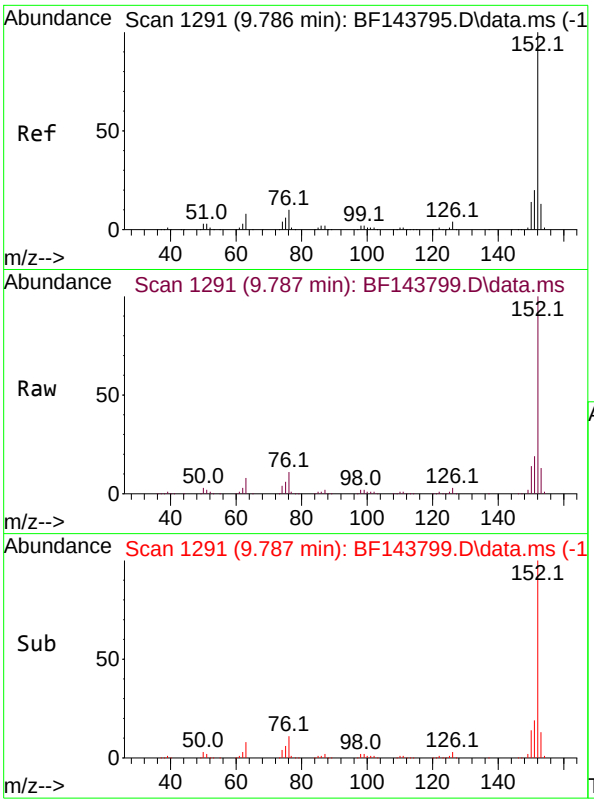


#48
2-Nitroaniline
Concen: 48.090 ng
RT: 9.463 min Scan# 1236
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 65 Resp: 161814

Ion	Ratio	Lower	Upper
65	100		
92	55.6	44.9	67.3
138	85.7	69.0	103.4

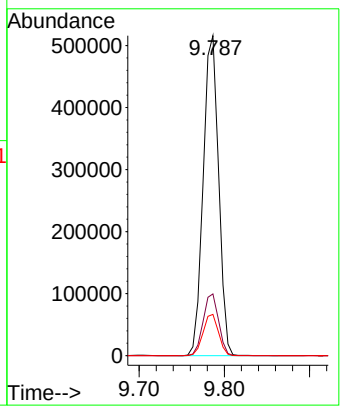




#49
Acenaphthylene
Concen: 42.279 ng
RT: 9.787 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:152 Resp: 64797

Ion	Ratio	Lower	Upper
152	100		
151	19.3	15.7	23.5
153	12.9	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
ICVBF092325

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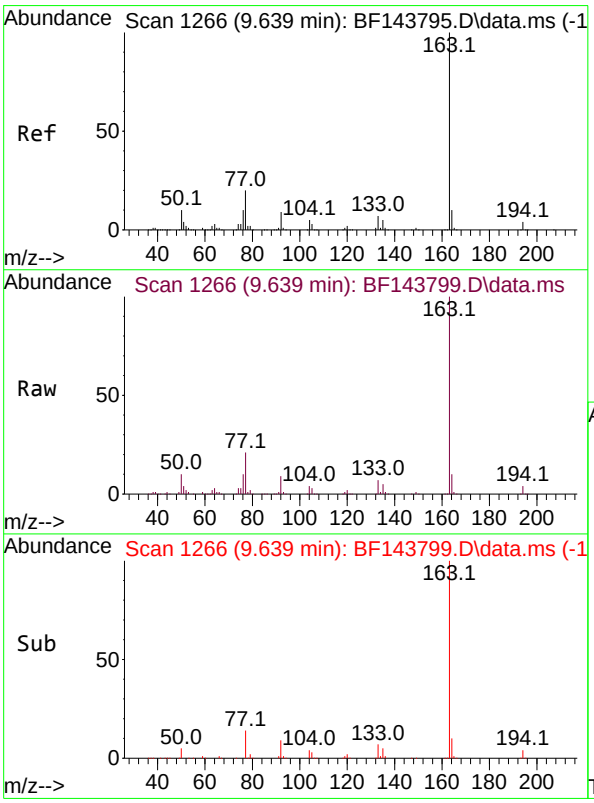
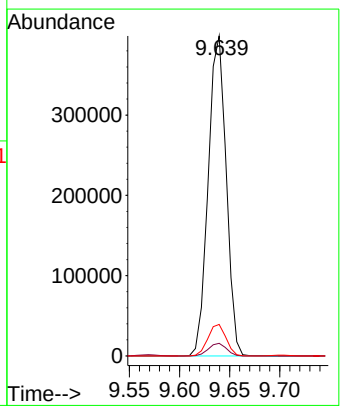
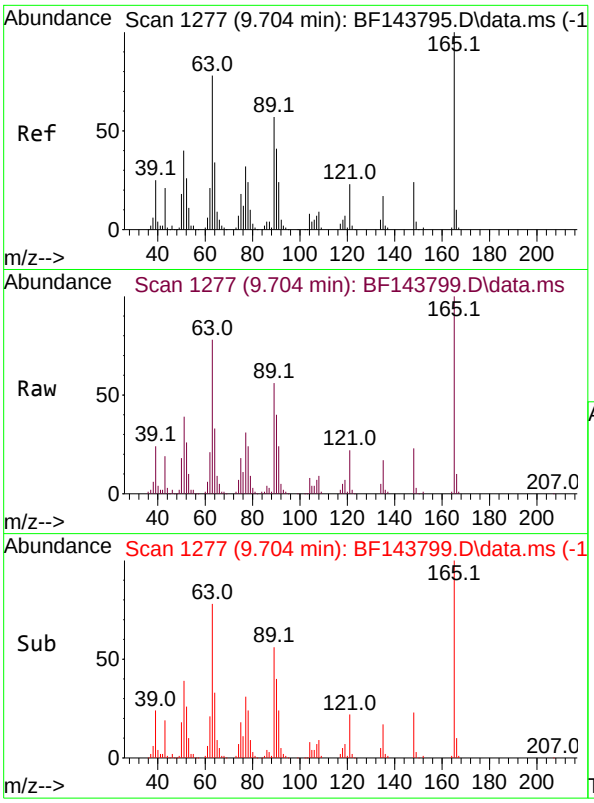


#50
Dimethylphthalate
Concen: 42.624 ng
RT: 9.639 min Scan# 1266
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:163 Resp: 496374

Ion	Ratio	Lower	Upper
163	100		
194	3.9	3.0	4.6
164	9.8	8.2	12.2

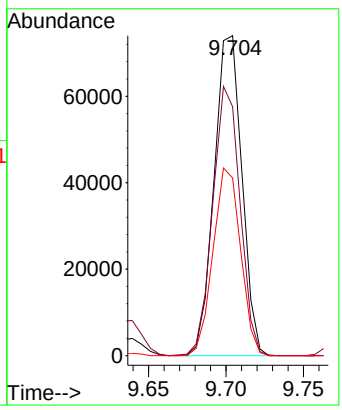




#51
2,6-Dinitrotoluene
Concen: 48.254 ng
RT: 9.704 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:165 Resp: 9232

Ion	Ratio	Lower	Upper
165	100		
63	77.8	62.6	94.0
89	55.5	45.2	67.8



Instrument :
BNA_F
ClientSampleId :
ICVBF092325

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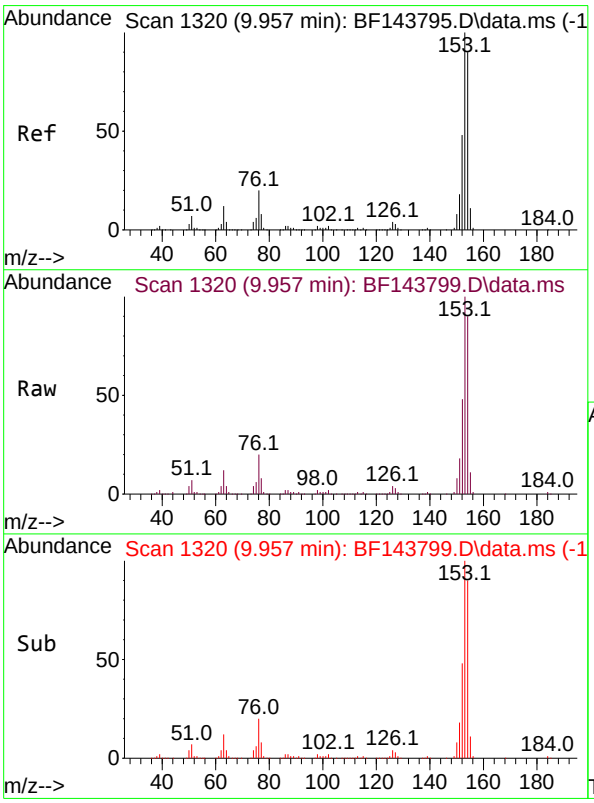
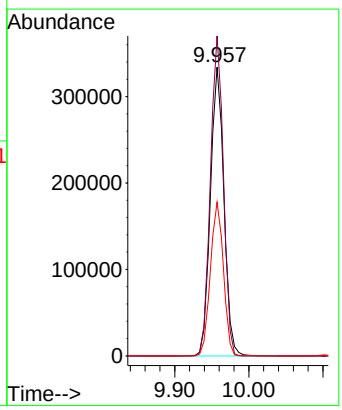
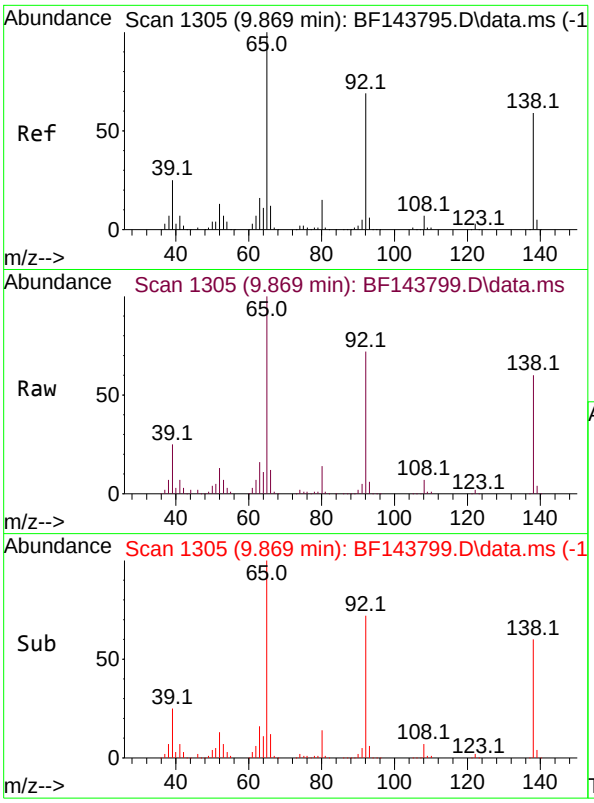


#52
Acenaphthene
Concen: 41.869 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:154 Resp: 422277

Ion	Ratio	Lower	Upper
154	100		
153	110.8	88.7	133.1
152	53.2	42.7	64.1

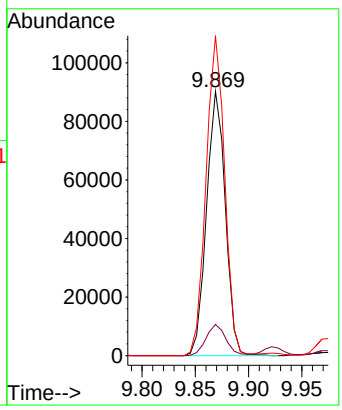




#53
3-Nitroaniline
Concen: 47.665 ng
RT: 9.869 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:138 Resp: 11054

Ion	Ratio	Lower	Upper
138	100		
108	11.8	9.9	14.9
92	121.1	93.5	140.3



Instrument :
BNA_F
ClientSampleId :
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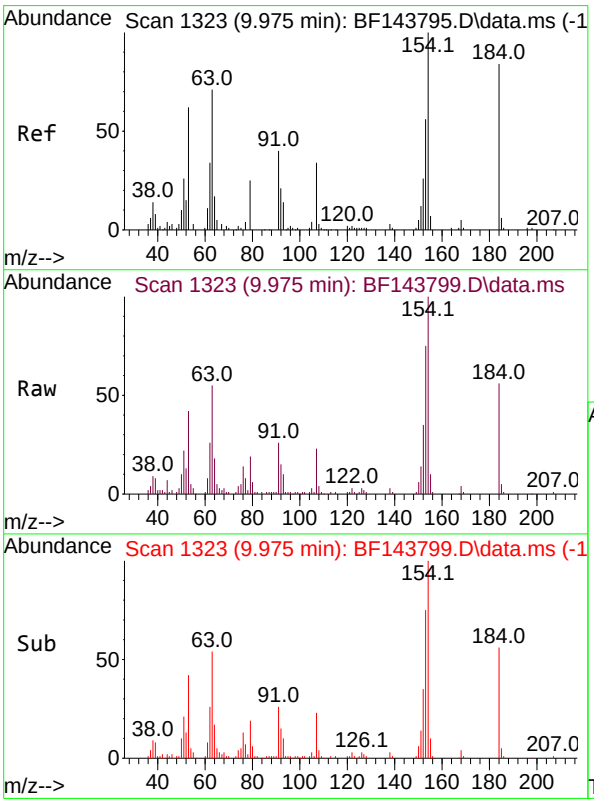
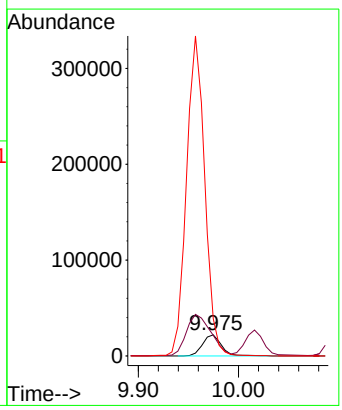
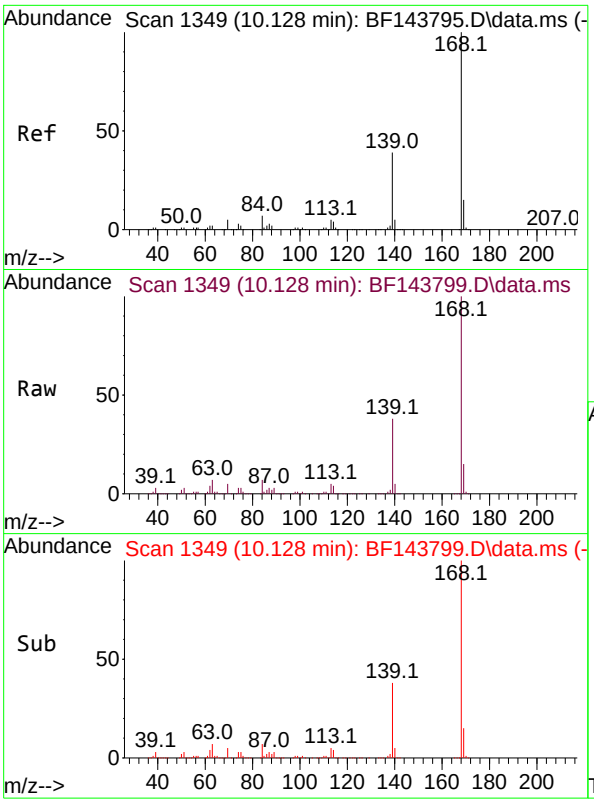


#54
2,4-Dinitrophenol
Concen: 46.217 ng
RT: 9.975 min Scan# 1323
Delta R.T. -0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:184 Resp: 28355

Ion	Ratio	Lower	Upper
184	100		
63	97.8	84.6	127.0
154	177.3	199.3	298.9#

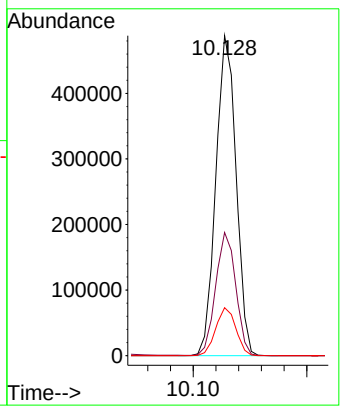




#55
Dibenzofuran
Concen: 42.251 ng
RT: 10.128 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:168 Resp: 60257

Ion	Ratio	Lower	Upper
168	100		
139	38.5	31.0	46.6
169	15.0	11.9	17.9



Instrument :
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ClientSampleId :
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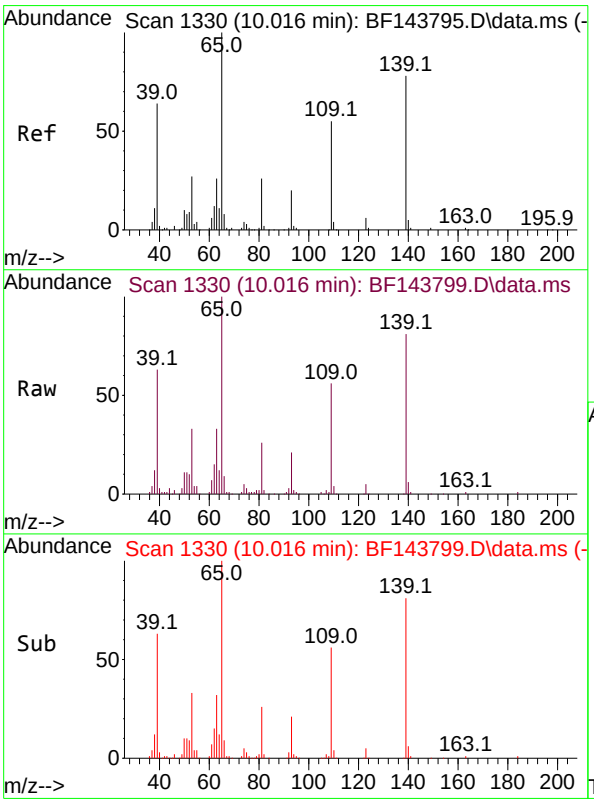
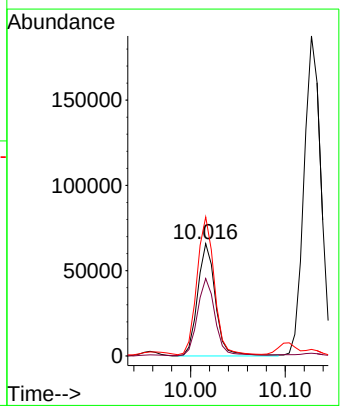
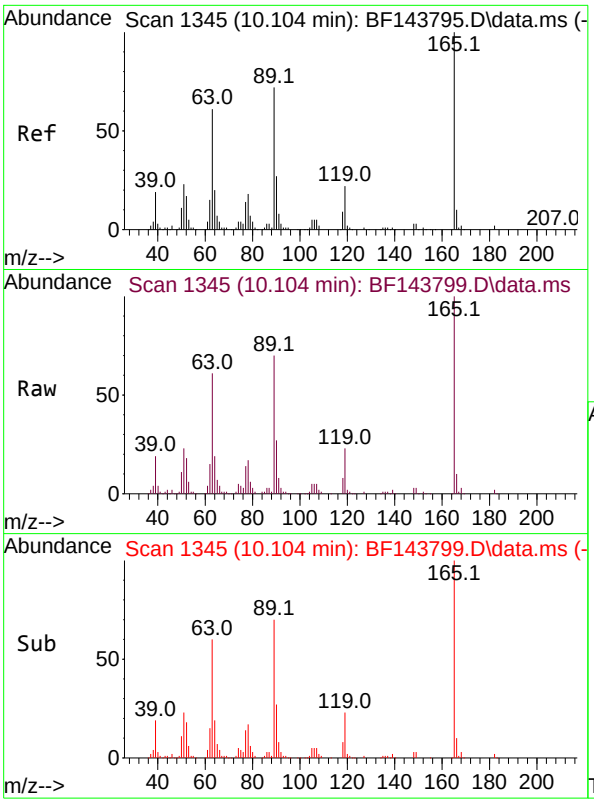


#56
4-Nitrophenol
Concen: 45.864 ng
RT: 10.016 min Scan# 1330
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:139 Resp: 85715

Ion	Ratio	Lower	Upper
139	100		
109	68.8	50.2	90.2
65	123.7	109.2	149.2

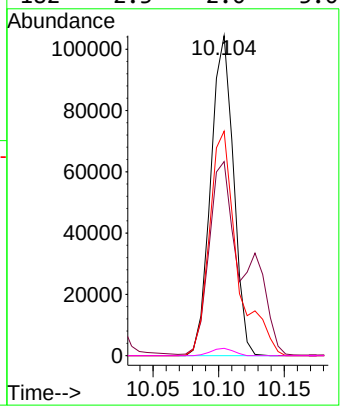




#57
2,4-Dinitrotoluene
Concen: 44.618 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:165 Resp: 12609

Ion	Ratio	Lower	Upper
165	100		
63	60.6	48.9	73.3
89	70.1	57.5	86.3
182	2.3	2.0	3.0



Instrument :
BNA_F
ClientSampleId :
ICVBF092325

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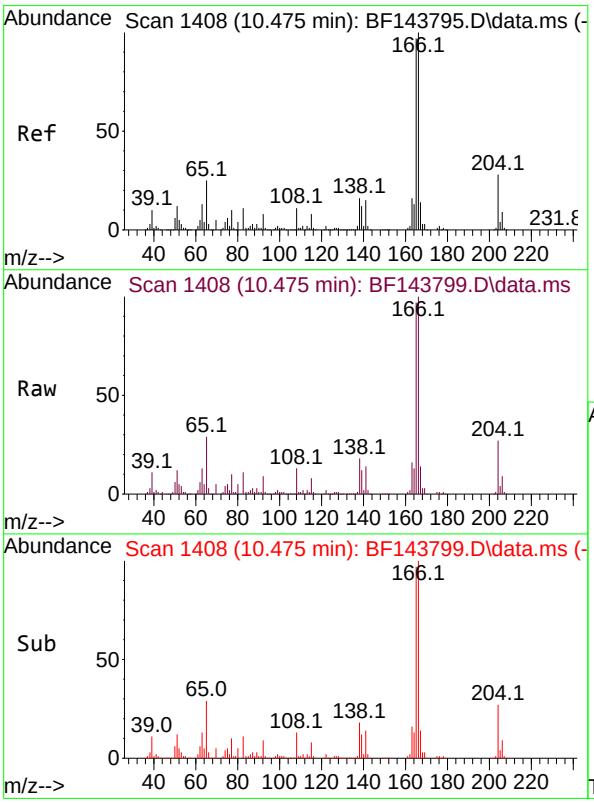
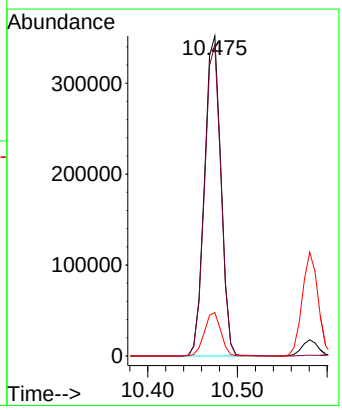
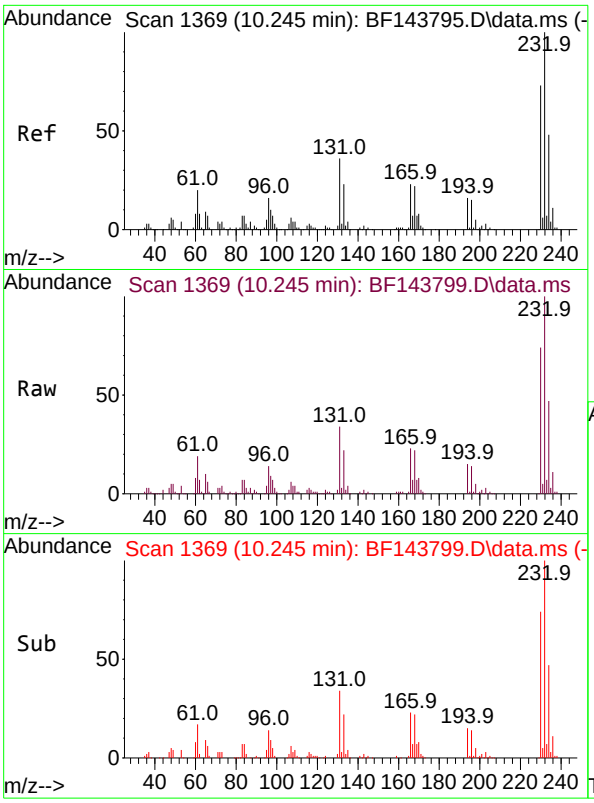


#58
Fluorene
Concen: 42.132 ng
RT: 10.475 min Scan# 1408
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:166 Resp: 446712

Ion	Ratio	Lower	Upper
166	100		
165	97.1	78.0	117.0
167	13.5	10.9	16.3

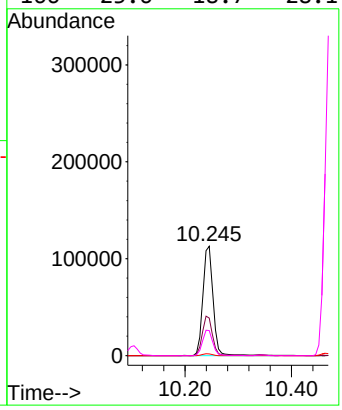




#59
2,3,4,6-Tetrachlorophenol
Concen: 46.097 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:232 Resp: 14913

Ion	Ratio	Lower	Upper
232	100		
131	35.9	29.4	44.2
130	1.6	1.3	1.9
166	23.6	18.7	28.1



Instrument :
BNA_F
ClientSampleId :
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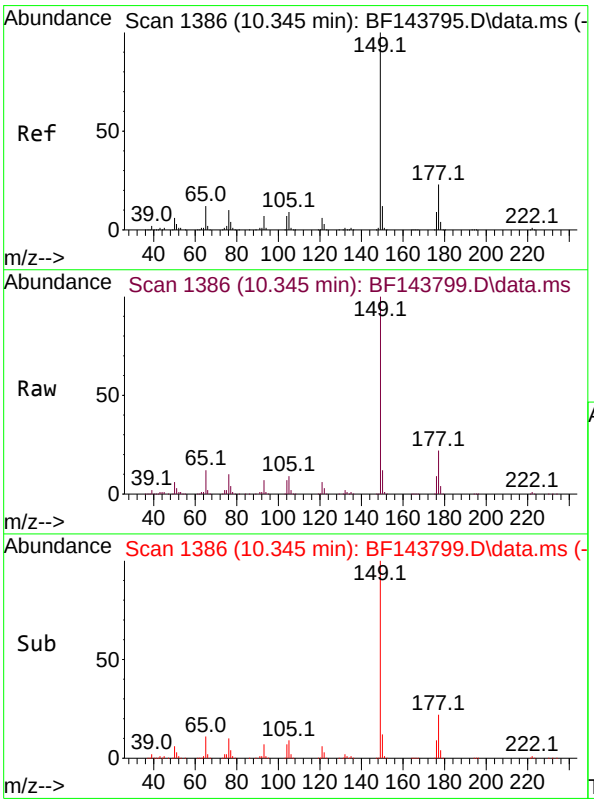
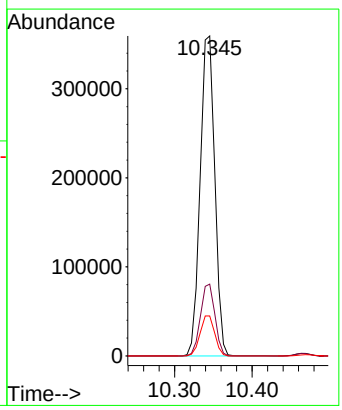
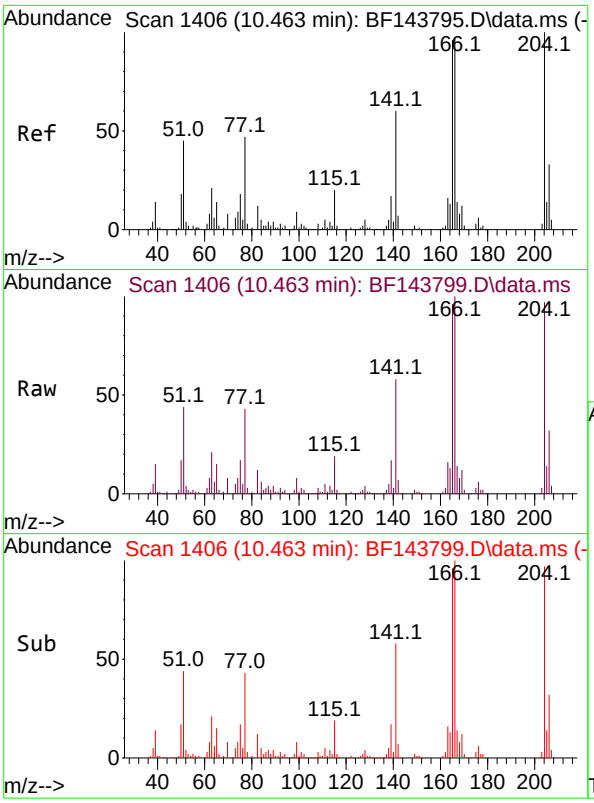


#60
Diethylphthalate
Concen: 43.199 ng
RT: 10.345 min Scan# 1386
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:149 Resp: 470914

Ion	Ratio	Lower	Upper
149	100		
177	22.4	18.1	27.1
150	12.5	9.7	14.5





#61
4-Chlorophenyl-phenylether
Concen: 42.203 ng
RT: 10.463 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Instrument :
BNA_F
ClientSampleId :
ICVBF092325

Tgt Ion:204 Resp: 22799

Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.7	40.1
141	60.1	48.2	72.2

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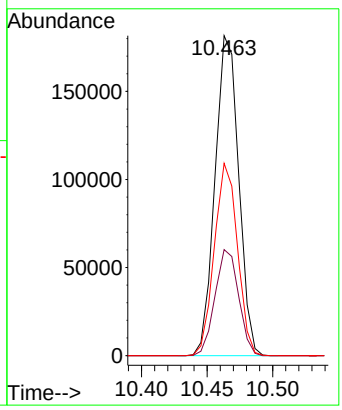
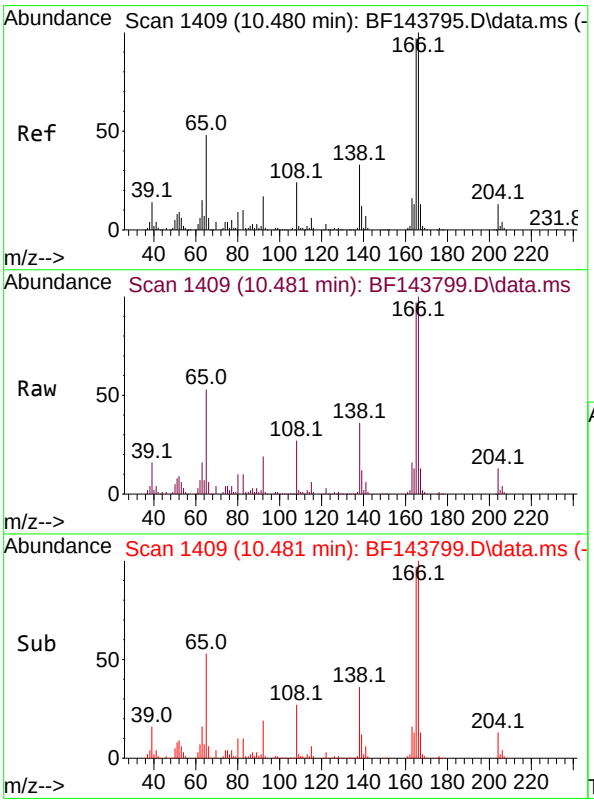
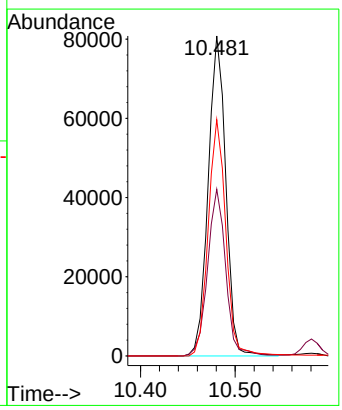


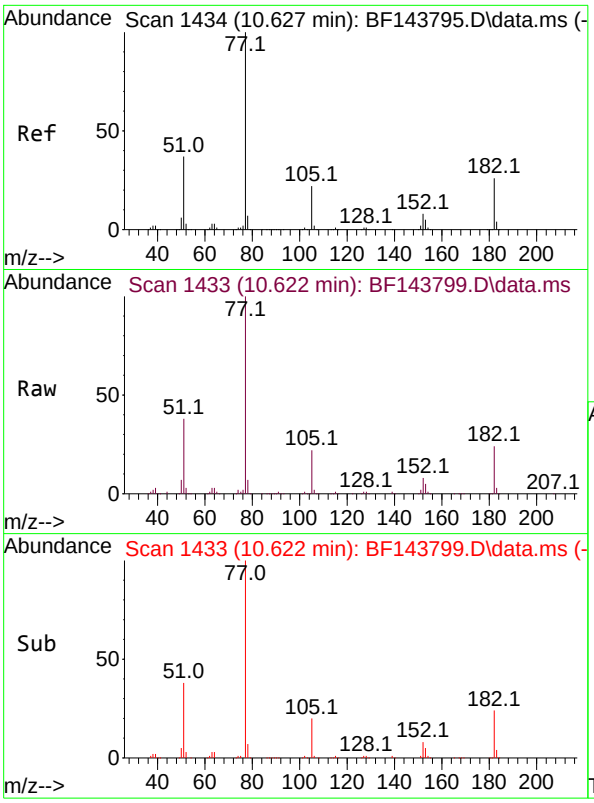


#62
4-Nitroaniline
Concen: 47.936 ng
RT: 10.481 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:138 Resp: 104533

Ion	Ratio	Lower	Upper
138	100		
92	52.1	31.5	71.5
108	73.8	51.9	91.9

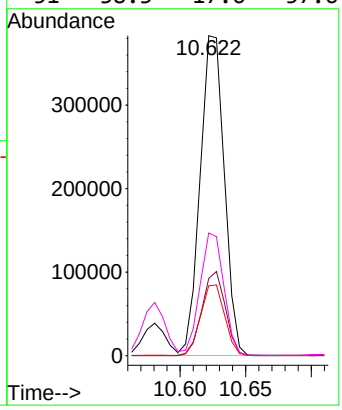




#63
Azobenzene
Concen: 42.769 ng
RT: 10.622 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion: 77 Resp: 491364

Ion	Ratio	Lower	Upper
77	100		
182	24.1	5.9	45.9
105	21.8	2.3	42.3
51	38.3	17.6	57.6



Instrument :
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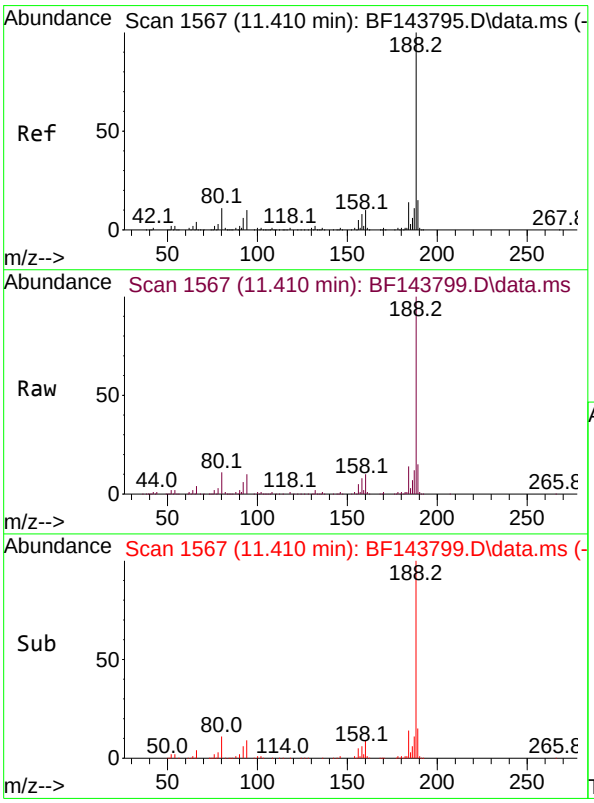
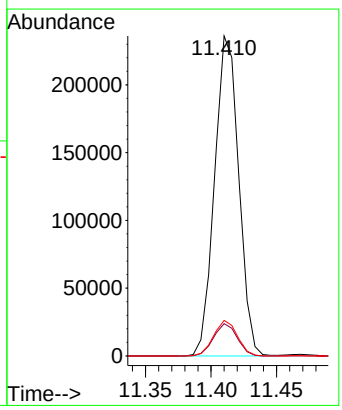
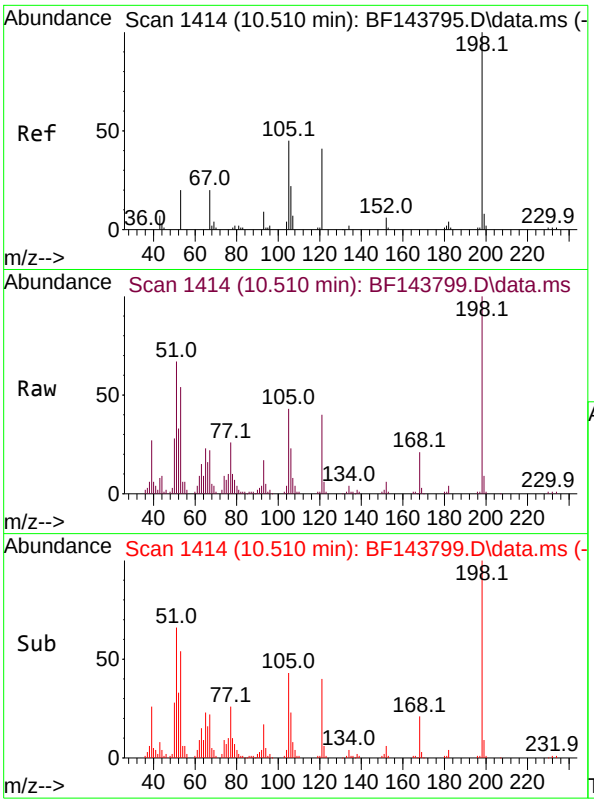


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1567
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:188 Resp: 302827

Ion	Ratio	Lower	Upper
188	100		
94	10.1	8.2	12.2
80	11.1	8.6	12.8





#65
4,6-Dinitro-2-methylphenol
Concen: 45.452 ng
RT: 10.510 min Scan# 14
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:198 Resp: 4951

Ion	Ratio	Lower	Upper
198	100		
51	67.2	52.0	92.0
105	43.5	27.5	67.5

Instrument :
BNA_F
ClientSampleId :
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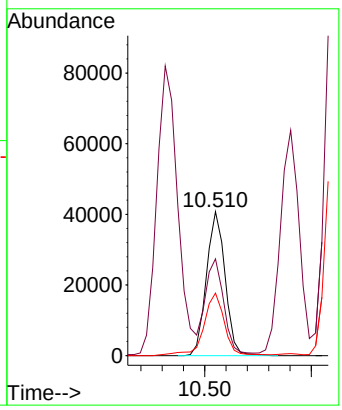
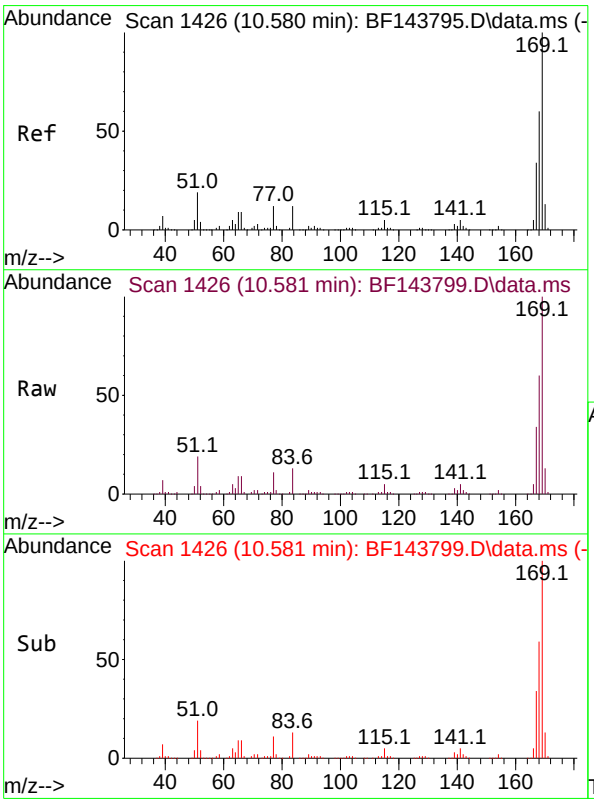
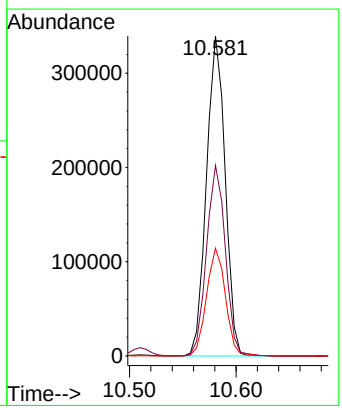


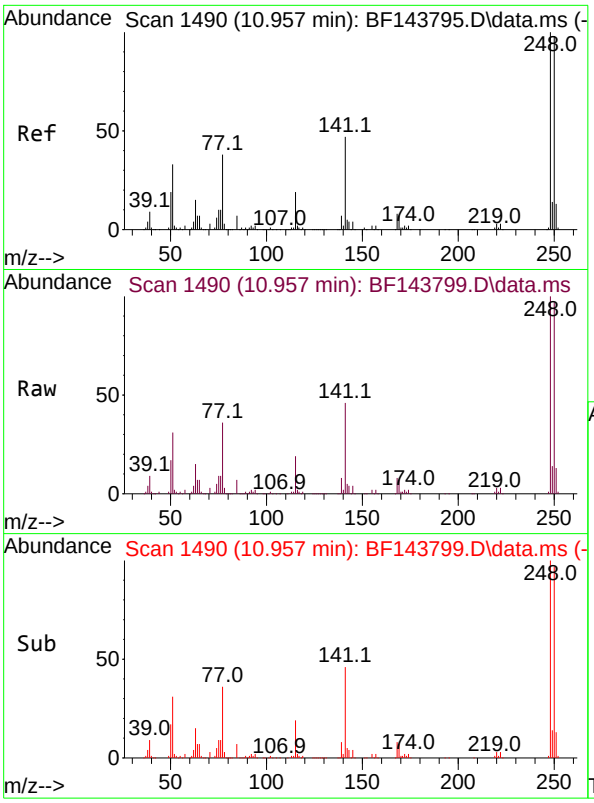


#66
n-Nitrosodiphenylamine
Concen: 41.480 ng
RT: 10.581 min Scan# 1426
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:169 Resp: 413097

Ion	Ratio	Lower	Upper
169	100		
168	59.5	47.9	71.9
167	33.6	27.0	40.6

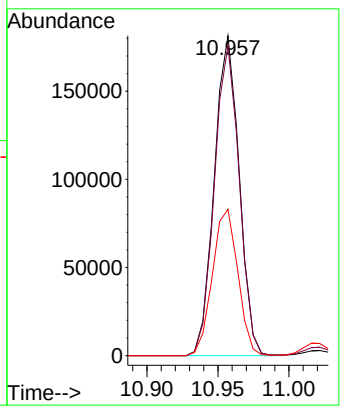




#67
4-Bromophenyl-phenylether
Concen: 42.884 ng
RT: 10.957 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:248 Resp: 22131

Ion	Ratio	Lower	Upper
248	100		
250	96.9	78.7	118.1
141	45.7	37.9	56.9



Instrument :
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ClientSampleId :
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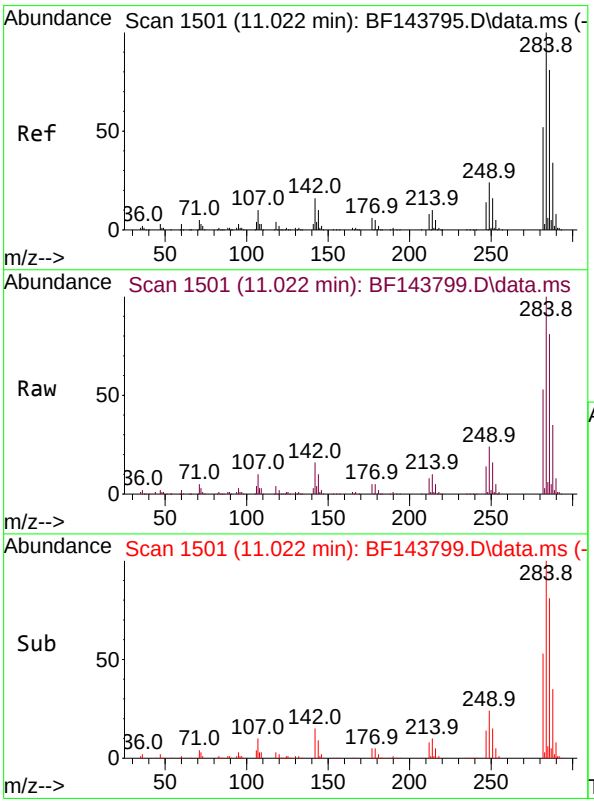
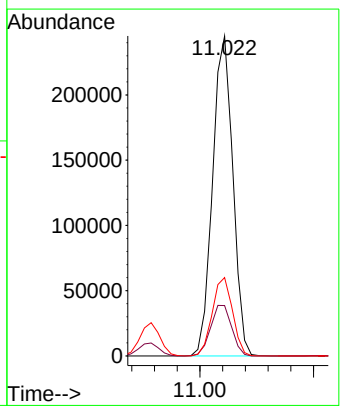
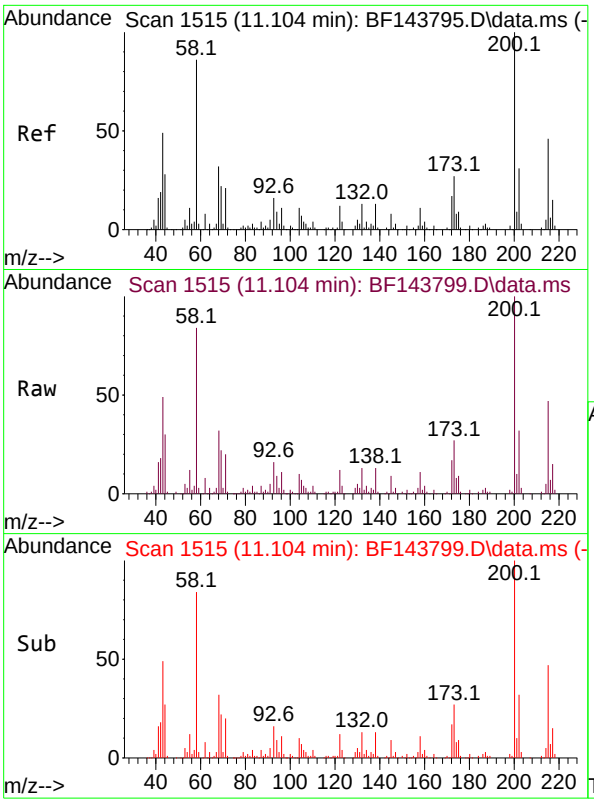


#68
Hexachlorobenzene
Concen: 42.661 ng
RT: 11.022 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:284 Resp: 303404

Ion	Ratio	Lower	Upper
284	100		
142	15.7	13.1	19.7
249	24.5	19.5	29.3

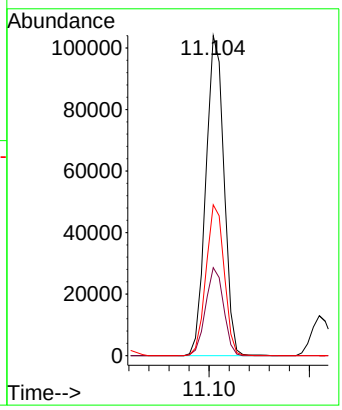




#69
Atrazine
Concen: 45.083 ng
RT: 11.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:200 Resp: 13001

Ion	Ratio	Lower	Upper
200	100		
173	27.5	7.2	47.2
215	47.1	26.0	66.0



Instrument :
BNA_F
ClientSampleId :
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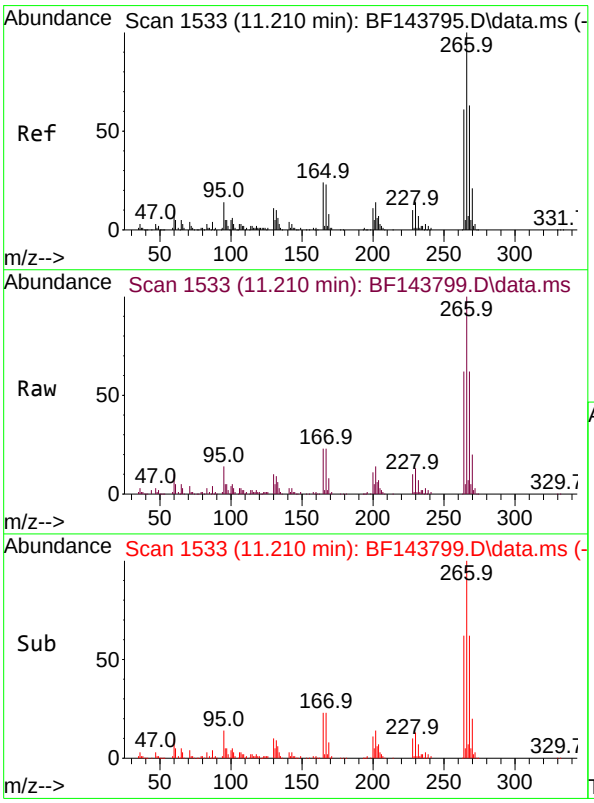
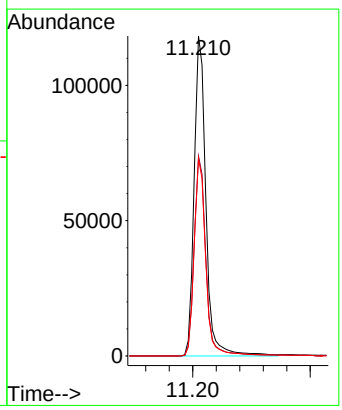
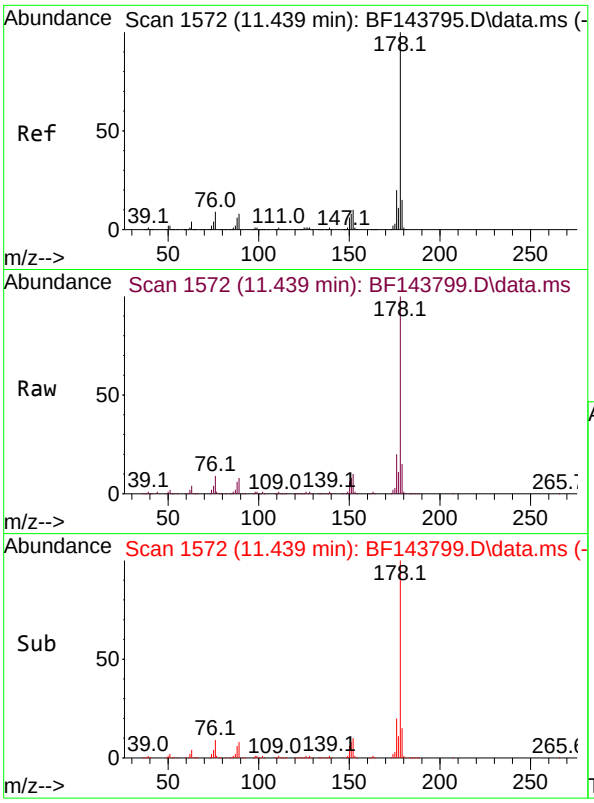


#70
Pentachlorophenol
Concen: 46.307 ng
RT: 11.210 min Scan# 1533
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:266 Resp: 163934

Ion	Ratio	Lower	Upper
266	100		
268	62.5	50.5	75.7
264	61.7	48.8	73.2

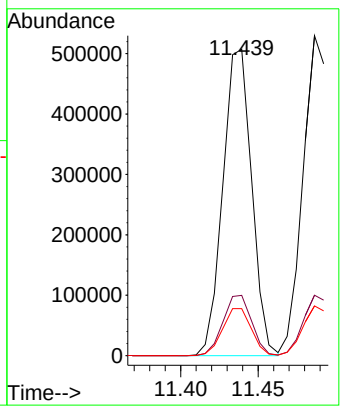




#71
Phenanthrene
Concen: 42.299 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:178 Resp: 65763

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.6	23.4
179	15.3	12.2	18.4



Instrument :
BNA_F
ClientSampleId :
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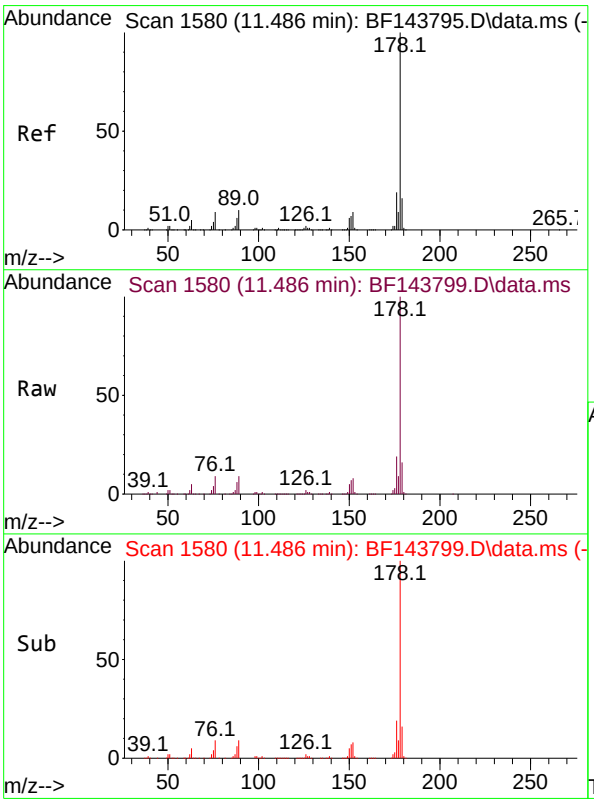
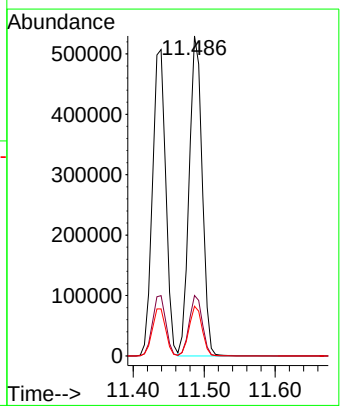
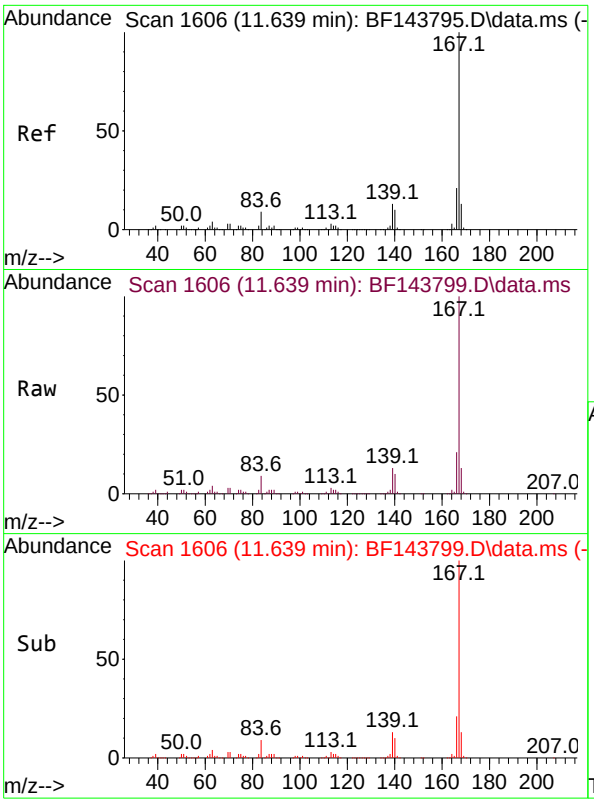


#72
Anthracene
Concen: 43.252 ng
RT: 11.486 min Scan# 1580
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:178 Resp: 674513

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.3	22.9
179	15.5	12.8	19.2

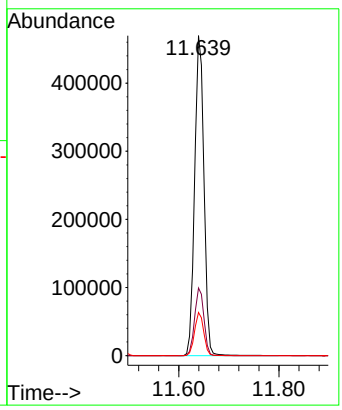




#73
Carbazole
Concen: 44.114 ng
RT: 11.639 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:167 Resp: 60149

Ion	Ratio	Lower	Upper
167	100		
166	21.1	17.0	25.4
139	13.5	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
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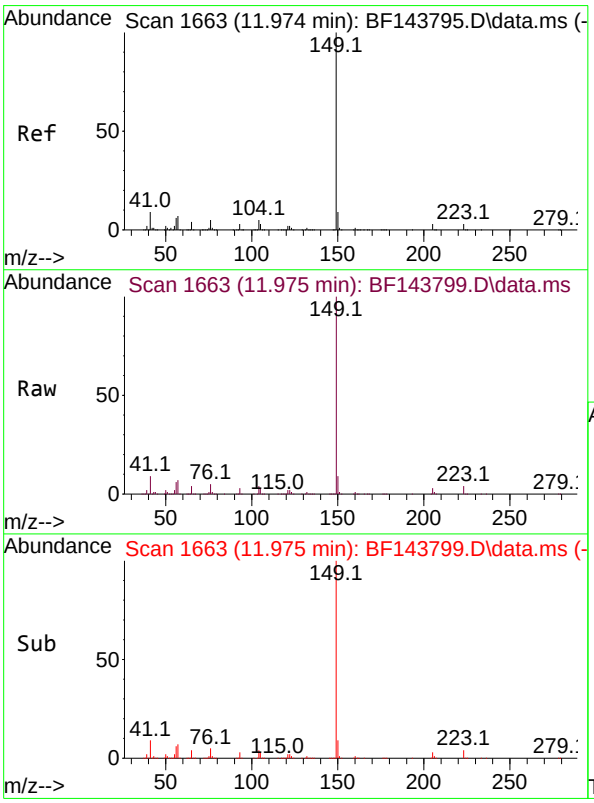
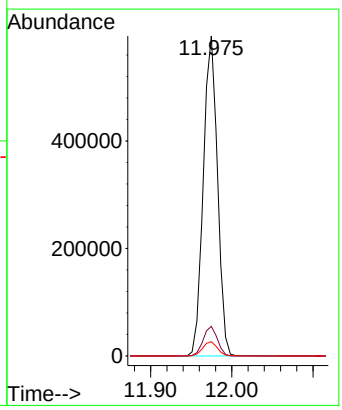
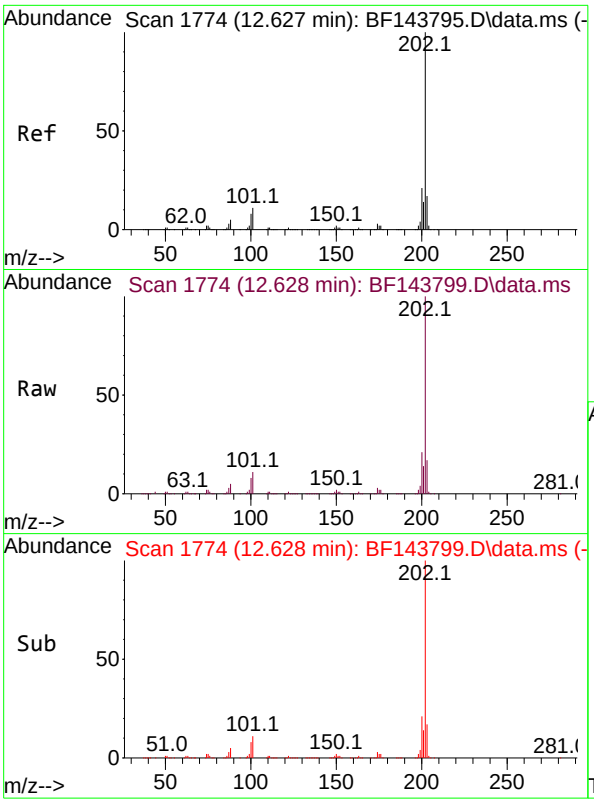


#74
Di-n-butylphthalate
Concen: 46.182 ng
RT: 11.975 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:149 Resp: 724195

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	4.5	3.6	5.4

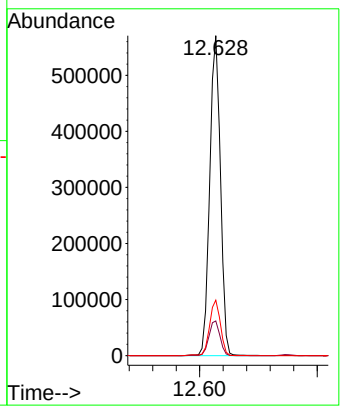




#75
Fluoranthene
Concen: 46.027 ng
RT: 12.628 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:202 Resp: 71972

Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	31.1
203	17.3	0.0	37.4



Instrument :
BNA_F
ClientSampleId :
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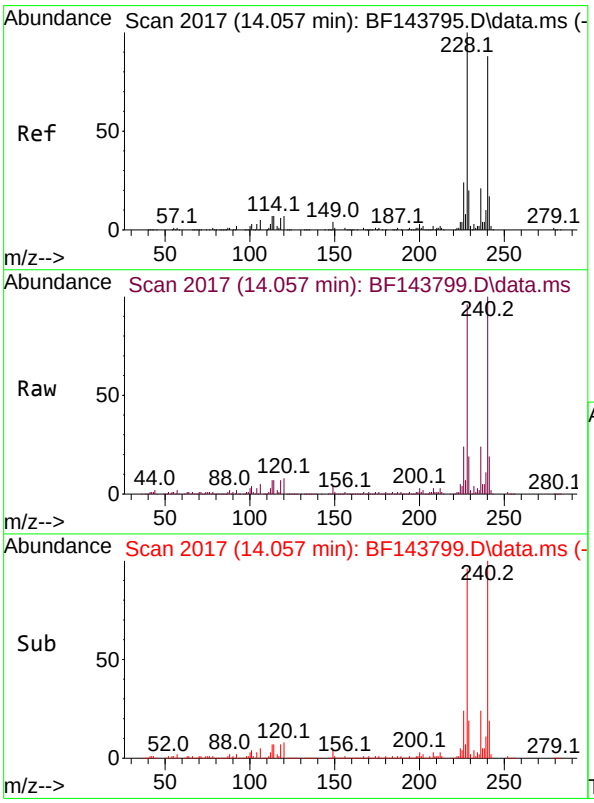
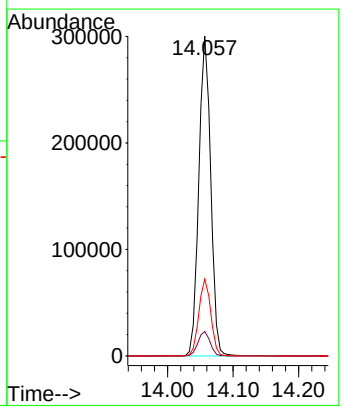
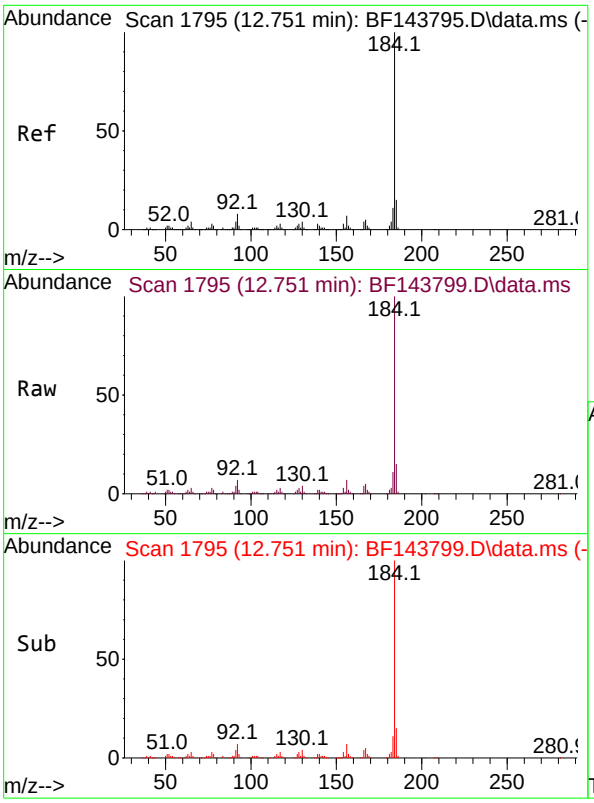


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:240 Resp: 375572

Ion	Ratio	Lower	Upper
240	100		
120	7.6	6.2	9.4
236	24.0	19.4	29.2

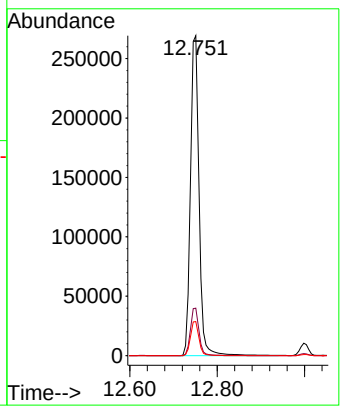




#77
Benzidine
Concen: 40.236 ng
RT: 12.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:184 Resp: 36823

Ion	Ratio	Lower	Upper
184	100		
185	14.8	11.6	17.4
183	10.6	8.6	13.0



Instrument :
BNA_F
ClientSampleId :
ICVBF092325

Manual Integrations
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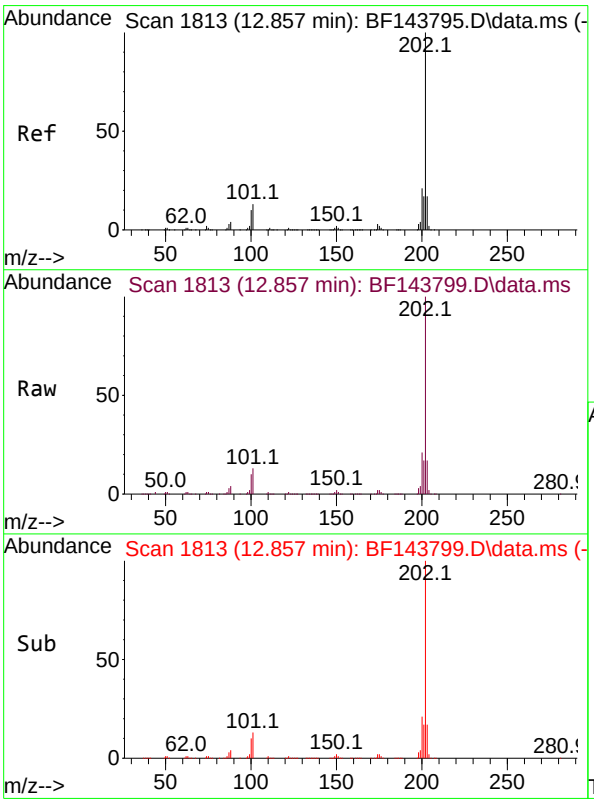
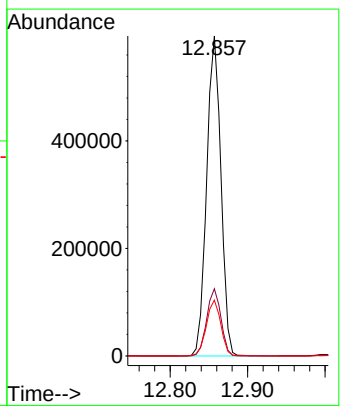
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

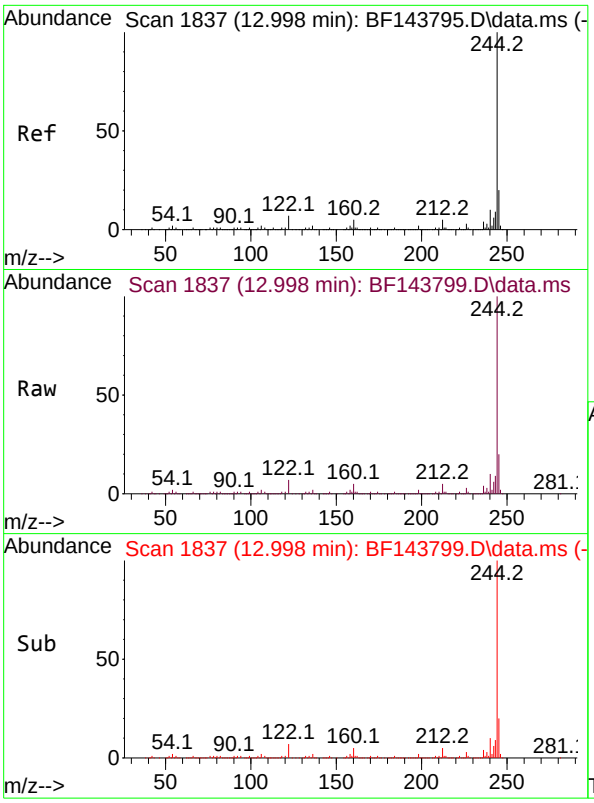


#78
Pyrene
Concen: 41.117 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:202 Resp: 759210

Ion	Ratio	Lower	Upper
202	100		
200	21.0	17.0	25.4
203	17.4	13.9	20.9

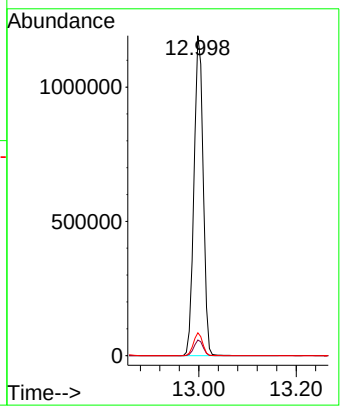




#79
Terphenyl-d14
Concen: 80.752 ng
RT: 12.998 min Scan# 18
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:244 Resp: 154475

Ion	Ratio	Lower	Upper
244	100		
212	4.9	3.9	5.9
122	7.1	5.6	8.4



Instrument :
BNA_F
ClientSampleId :
ICVBF092325

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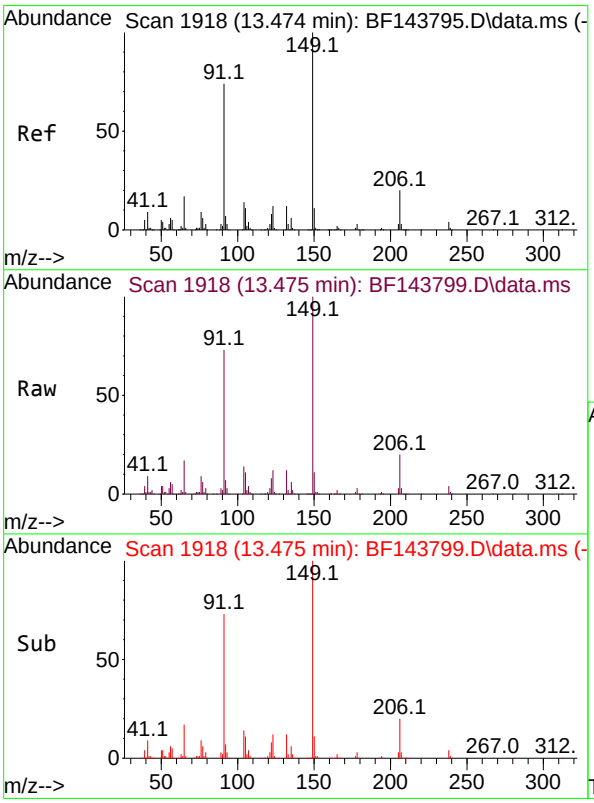
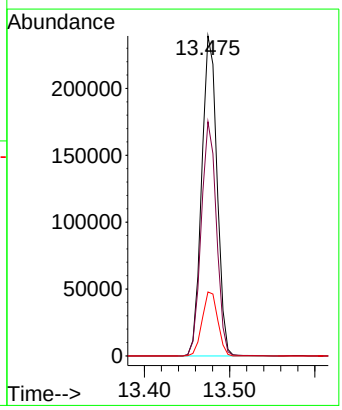
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

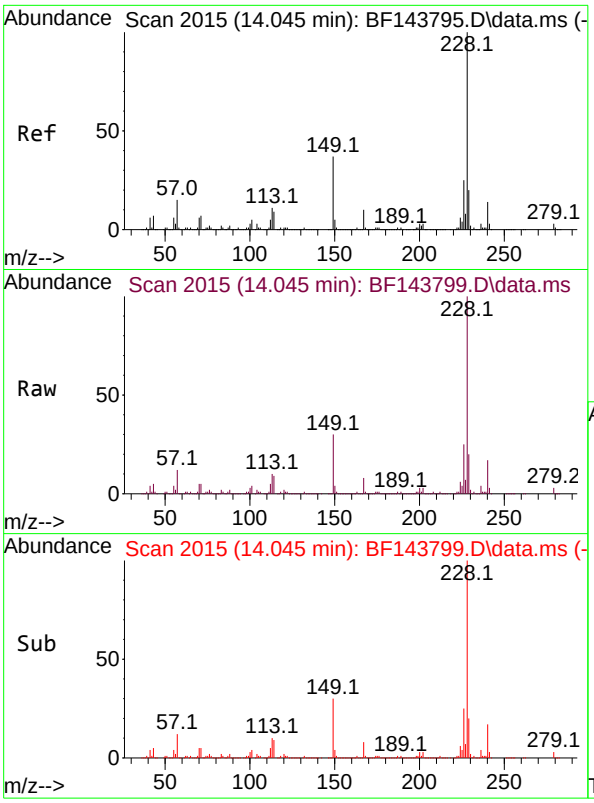


#80
Butylbenzylphthalate
Concen: 46.674 ng
RT: 13.475 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:149 Resp: 298166

Ion	Ratio	Lower	Upper
149	100		
91	73.2	59.5	89.3
206	20.0	16.1	24.1

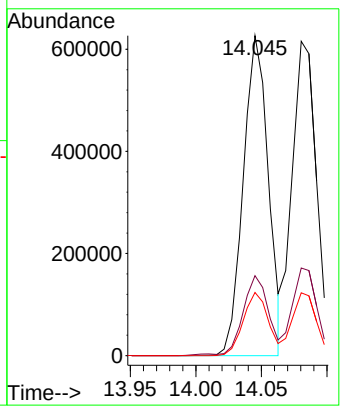




#81
Benzo(a)anthracene
Concen: 41.296 ng
RT: 14.045 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:228 Resp: 83320

Ion	Ratio	Lower	Upper
228	100		
226	25.0	20.2	30.2
229	19.7	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
ICVBF092325

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Reviewed By :Rahul Chavli 09/24/2025
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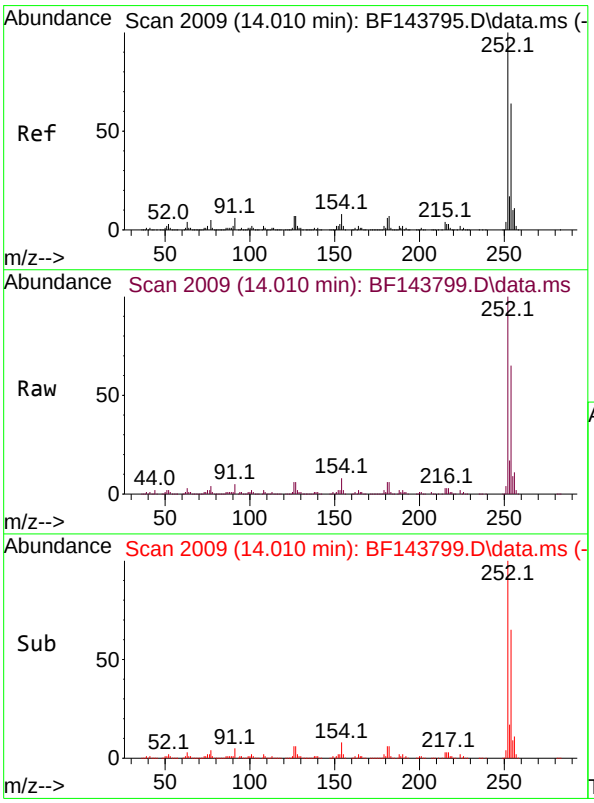
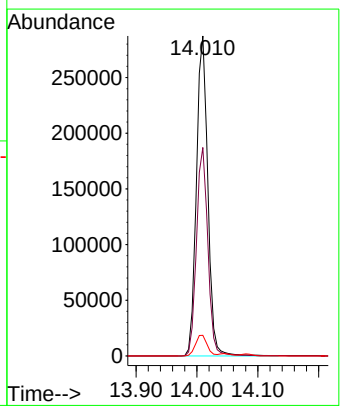
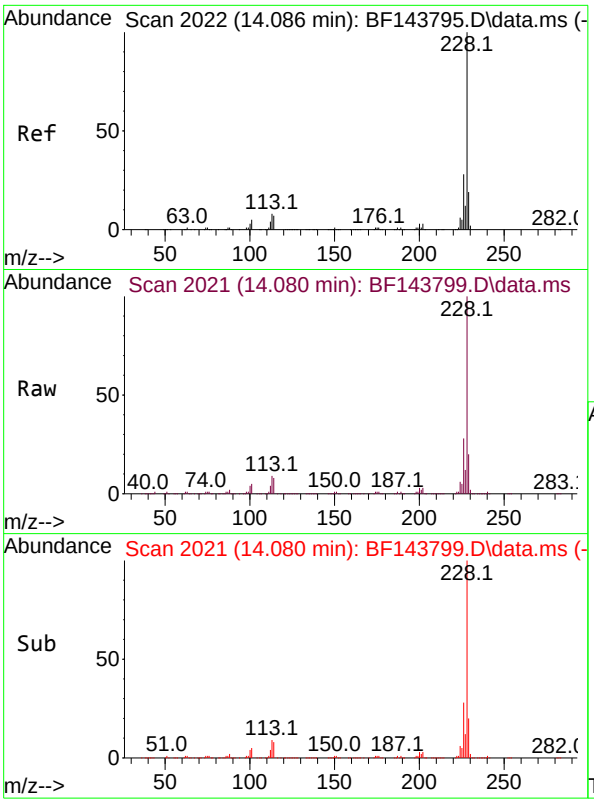


#82
3,3'-Dichlorobenzidine
Concen: 42.723 ng
RT: 14.010 min Scan# 2009
Delta R.T. 0.000 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:252 Resp: 373433

Ion	Ratio	Lower	Upper
252	100		
254	65.2	51.5	77.3
126	6.4	5.4	8.2

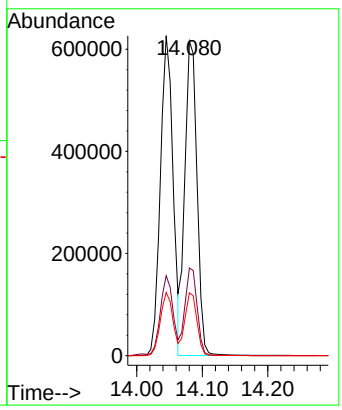




#83
Chrysene
Concen: 43.791 ng
RT: 14.080 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:228 Resp: 79948

Ion	Ratio	Lower	Upper
228	100		
226	27.9	22.6	33.8
229	20.0	15.6	23.4



Instrument :
BNA_F
ClientSampleId :
ICVBF092325

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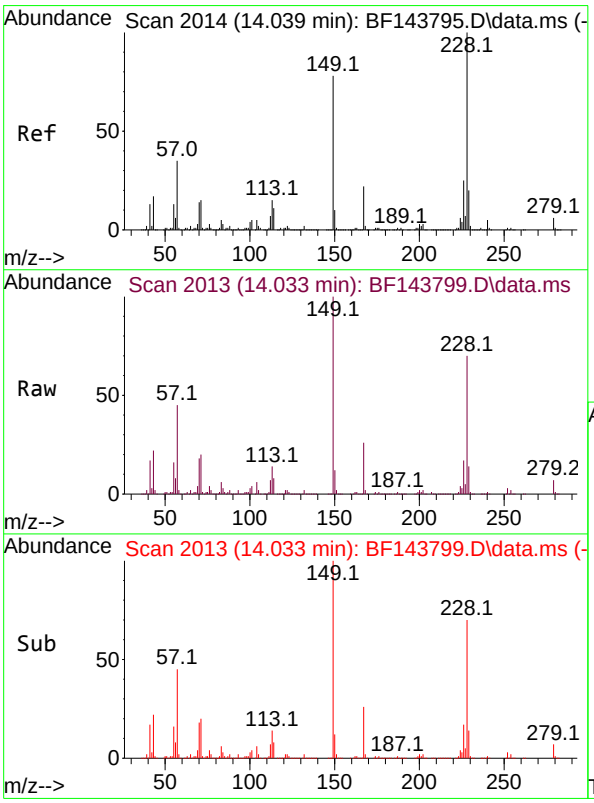
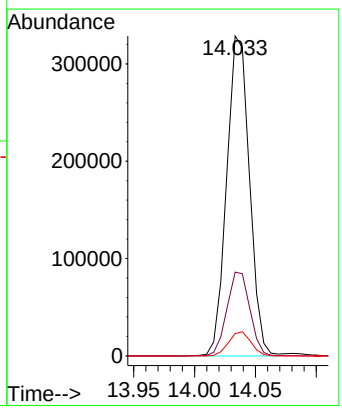
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

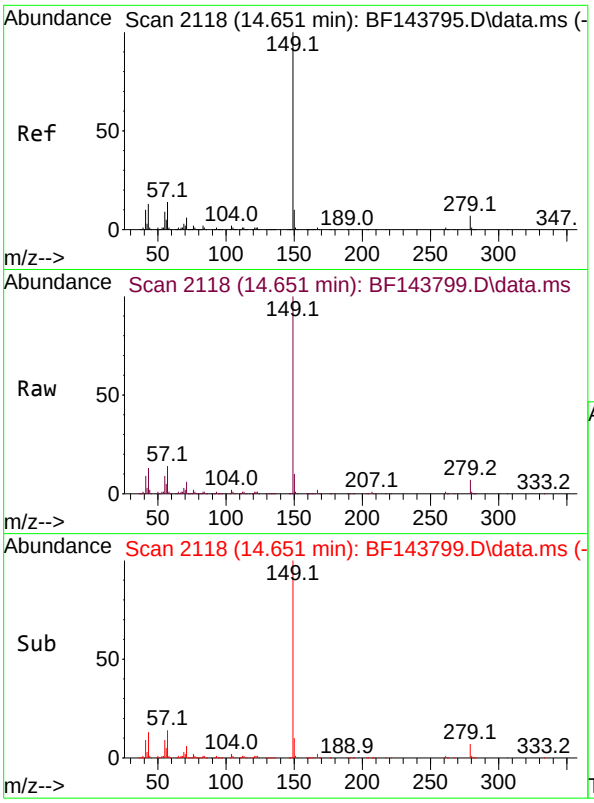


#84
Bis(2-ethylhexyl)phthalate
Concen: 45.704 ng
RT: 14.033 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:149 Resp: 427966

Ion	Ratio	Lower	Upper
149	100		
167	26.2	22.2	33.2
279	7.0	6.0	9.0

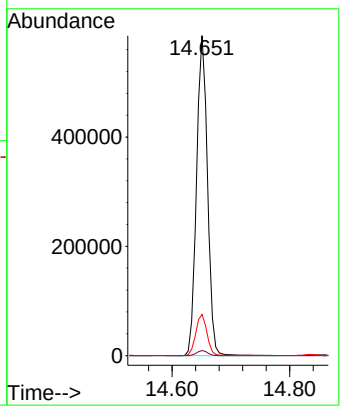




#85
Di-n-octyl phthalate
Concen: 44.512 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:149 Resp: 75604

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.1	1.7
43	13.1	10.7	16.1



Instrument :
BNA_F
ClientSampleId :
ICVBF092325

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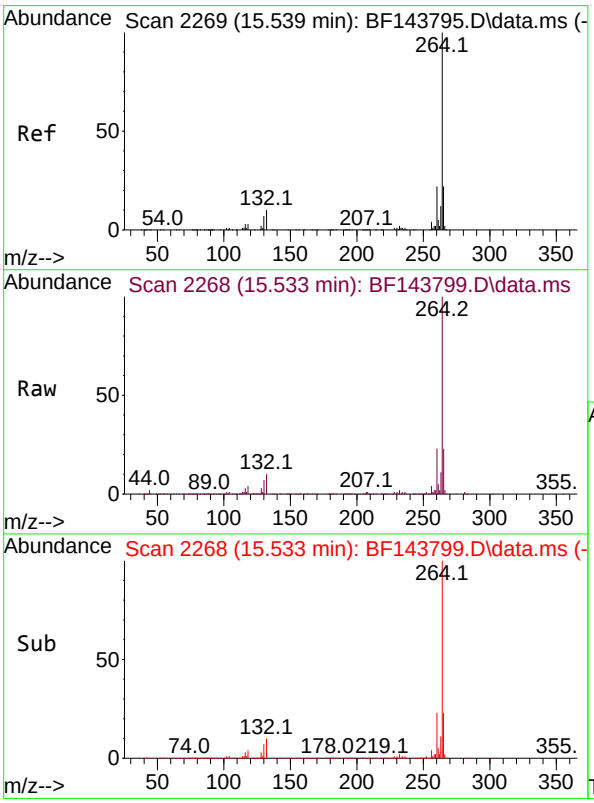
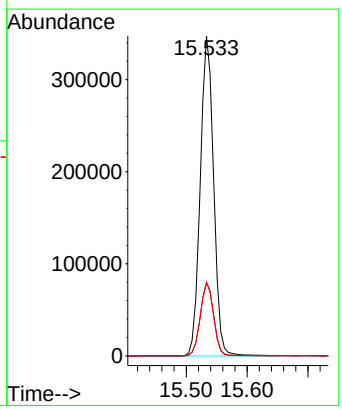
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

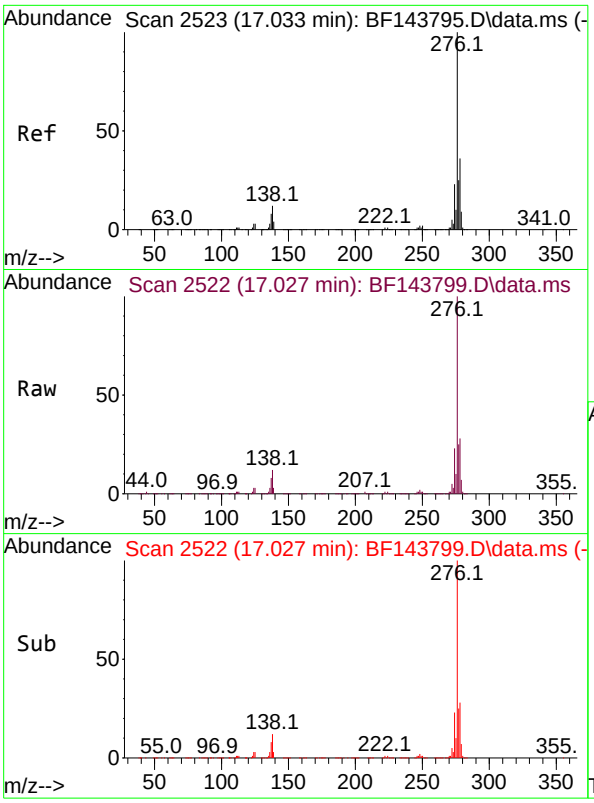


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:264 Resp: 528363

Ion	Ratio	Lower	Upper
264	100		
260	23.0	17.9	26.9
265	22.8	17.7	26.5

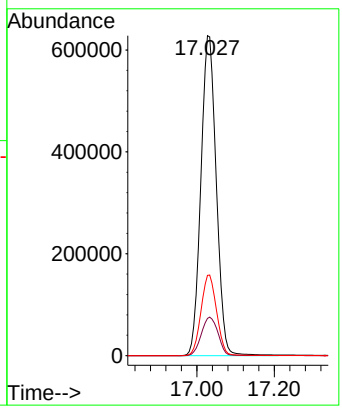




#87
Indeno(1,2,3-cd)pyrene
Concen: 43.111 ng
RT: 17.027 min Scan# 2
Delta R.T. -0.017 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:276 Resp: 172826

Ion	Ratio	Lower	Upper
276	100		
138	13.0	10.6	15.8
277	25.6	20.7	31.1



Instrument :
BNA_F
ClientSampleId :
ICVBF092325

Manual Integrations
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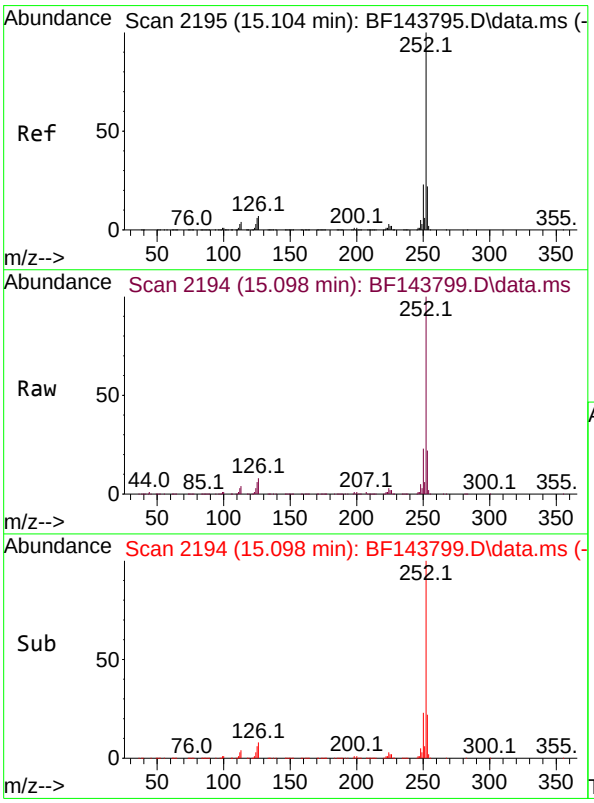
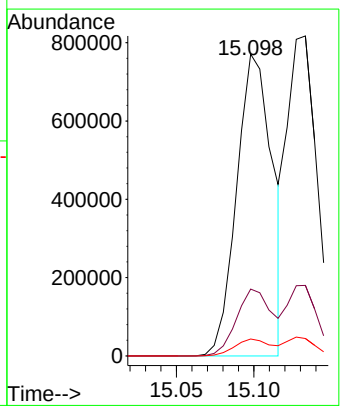
Reviewed By :Rahul Chavli 09/24/2025
Supervised By :Jagrut Upadhyay 09/24/2025

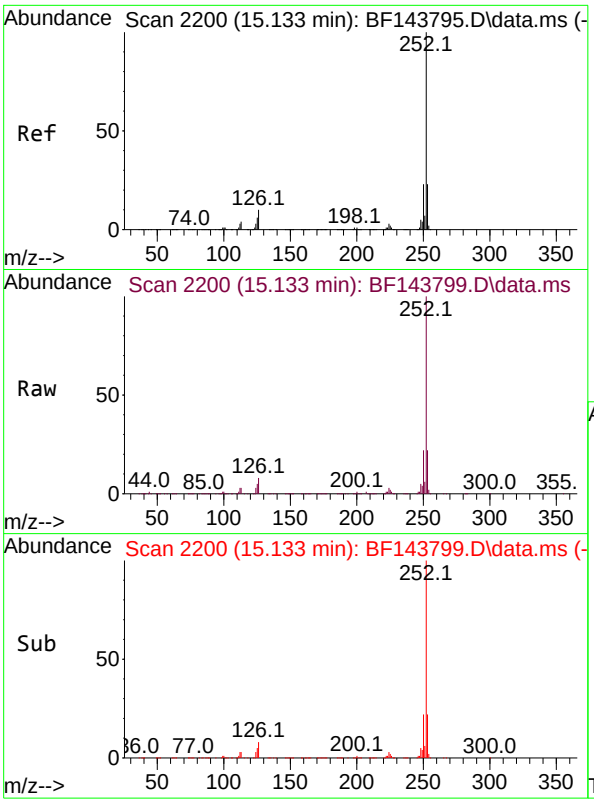


#88
Benzo(b)fluoranthene
Concen: 45.894 ng
RT: 15.098 min Scan# 2194
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:252 Resp: 1234859

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.8	26.8
125	5.6	4.4	6.6

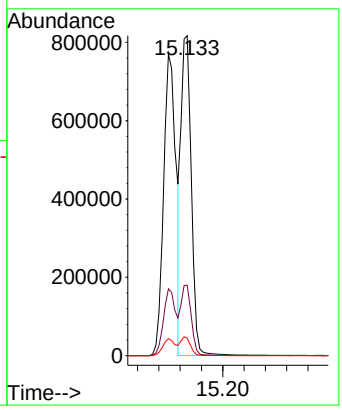




#89
Benzo(k)fluoranthene
Concen: 40.882 ng
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:252 Resp: 110514

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.9	26.9
125	5.4	4.6	6.8



Instrument :
BNA_F
ClientSampleId :
ICVBF092325

Manual Integrations
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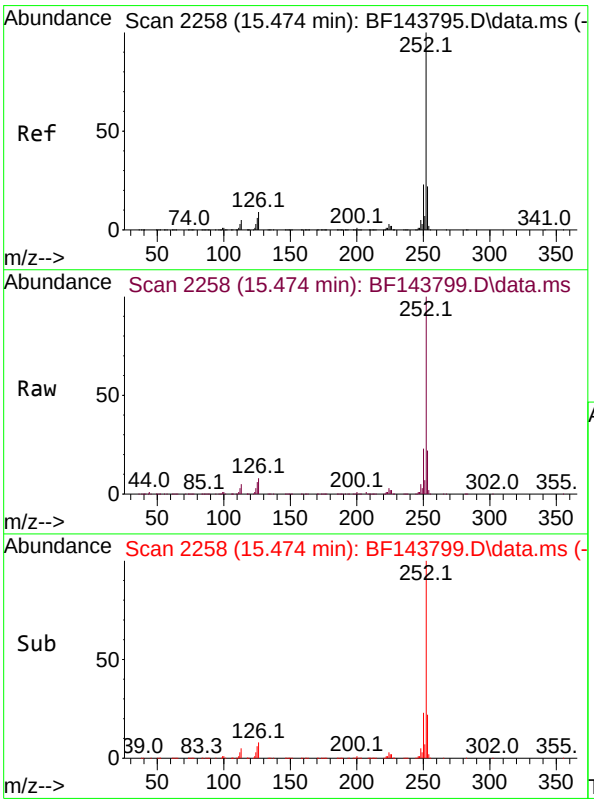
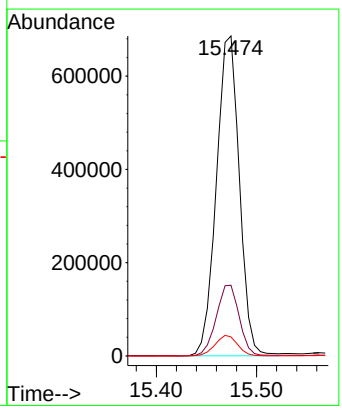
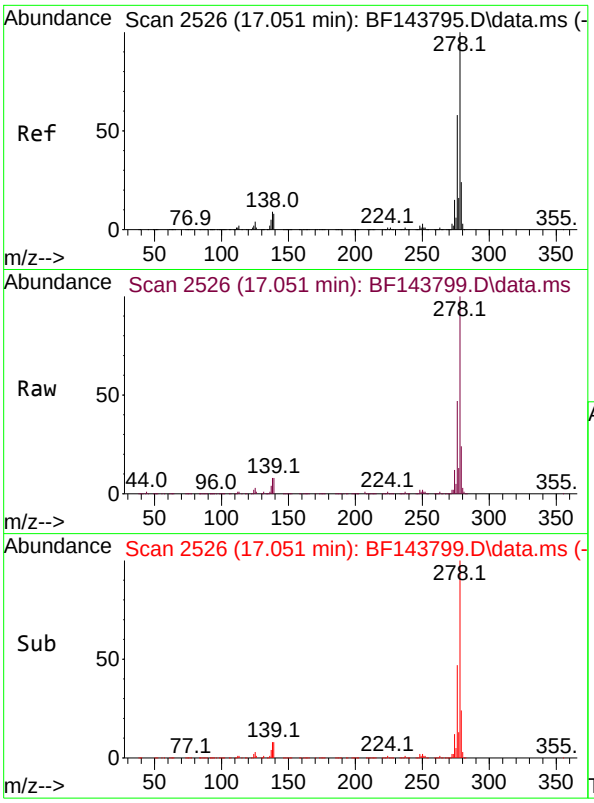


#90
Benzo(a)pyrene
Concen: 43.246 ng
RT: 15.474 min Scan# 2258
Delta R.T. -0.006 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:252 Resp: 1093771

Ion	Ratio	Lower	Upper
252	100		
253	22.1	17.6	26.4
125	6.0	5.0	7.4

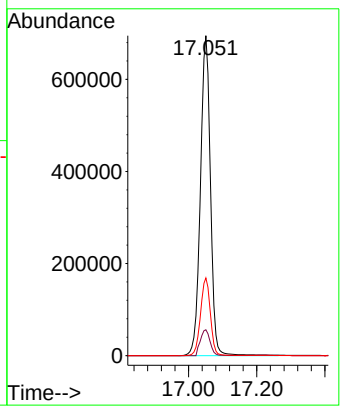




#91
Dibenzo(a,h)anthracene
Concen: 43.395 ng
RT: 17.051 min Scan# 2
Delta R.T. -0.017 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:278 Resp: 142288

Ion	Ratio	Lower	Upper
278	100		
139	8.1	6.7	10.1
279	24.3	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
ICVBF092325

Manual Integrations
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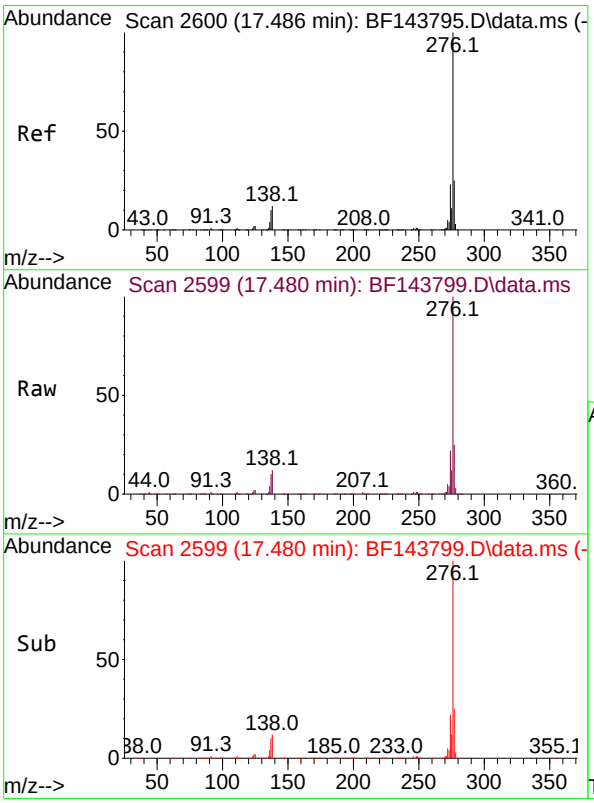
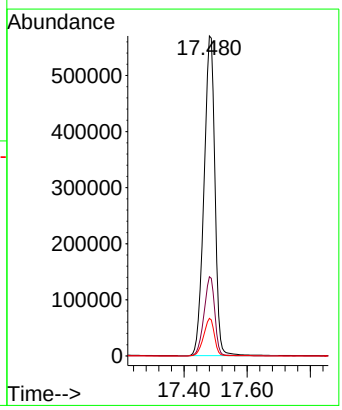


#92
Benzo(g,h,i)perylene
Concen: 43.247 ng
RT: 17.480 min Scan# 2599
Delta R.T. -0.023 min
Lab File: BF143799.D
Acq: 23 Sep 2025 17:42

Tgt Ion:276 Resp: 1366956

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.6	29.4
138	11.7	9.2	13.8



Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143799.D
Acq On : 23 Sep 2025 17:42
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF092325

Quant Time: Sep 23 18:09:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 17:50:26 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	96	0.00
2		1,4-Dioxane	0.589	0.643	-9.2	97	0.00
3		Pyridine	1.590	1.711	-7.6	96	0.00
4		n-Nitrosodimethylamine	0.797	0.846	-6.1	96	-0.02
5	S	2-Fluorophenol	1.231	1.345	-9.3	98	0.00
6		Aniline	2.064	2.147	-4.0	96	0.00
7	S	Phenol-d6	1.422	1.500	-5.5	95	0.00
8		2-Chlorophenol	1.260	1.338	-6.2	97	0.00
9		Benzaldehyde	1.246	1.453	-16.6	95	0.00
10	C	Phenol	1.653	1.734	-4.9	96	-0.01
11		bis(2-Chloroethyl)ether	1.296	1.357	-4.7	96	0.00
12		1,3-Dichlorobenzene	1.463	1.546	-5.7	97	0.00
13	C	1,4-Dichlorobenzene	1.460	1.528	-4.7	96	0.00
14		1,2-Dichlorobenzene	1.383	1.443	-4.3	96	0.00
15		Benzyl Alcohol	1.028	1.093	-6.3	97	0.00
16		2,2'-oxybis(1-Chloropropane	3.073	3.217	-4.7	96	0.00
17		2-Methylphenol	0.976	1.032	-5.7	97	0.00
18		Hexachloroethane	0.514	0.550	-7.0	98	0.00
19	P	n-Nitroso-di-n-propylamine	0.915	0.910	0.5	96	-0.01
20		3+4-Methylphenols	1.188	1.296	-9.1	98	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	96	0.00
22		Acetophenone	0.439	0.456	-3.9	95	0.00
23	S	Nitrobenzene-d5	0.327	0.361	-10.4	98	0.00
24		Nitrobenzene	0.362	0.395	-9.1	98	-0.01
25		Isophorone	0.637	0.665	-4.4	95	0.00
26	C	2-Nitrophenol	0.132	0.163	-23.5#	106	0.00
27		2,4-Dimethylphenol	0.285	0.304	-6.7	96	0.00
28		bis(2-Chloroethoxy)methane	0.414	0.429	-3.6	94	0.00
29	C	2,4-Dichlorophenol	0.280	0.300	-7.1	97	0.00
30		1,2,4-Trichlorobenzene	0.291	0.308	-5.8	96	0.00
31		Naphthalene	0.957	1.006	-5.1	96	0.00
32		Benzoic acid	0.137	0.151	-10.2	103	-0.03
33		4-Chloroaniline	0.336	0.353	-5.1	96	0.00
34	C	Hexachlorobutadiene	0.217	0.230	-6.0	95	0.00
35		Caprolactam	0.072	0.079	-9.7	101	-0.02
36	C	4-Chloro-3-methylphenol	0.263	0.279	-6.1	97	0.00
37		2-Methylnaphthalene	0.611	0.636	-4.1	96	0.00
38		1-Methylnaphthalene	0.584	0.613	-5.0	96	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	98	0.00
40		1,2,4,5-Tetrachlorobenzene	0.604	0.634	-5.0	99	0.00
41	P	Hexachlorocyclopentadiene	0.383	0.419	-9.4	98	0.00
42	S	2,4,6-Tribromophenol	0.296	0.341	-15.2	102	0.00
43	C	2,4,6-Trichlorophenol	0.378	0.425	-12.4	99	0.00
44		2,4,5-Trichlorophenol	0.395	0.418	-5.8	97	0.00
45	S	2-Fluorobiphenyl	1.282	1.351	-5.4	98	0.00
46		1,1'-Biphenyl	1.448	1.493	-3.1	98	0.00
47		2-Chloronaphthalene	1.165	1.198	-2.8	96	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143799.D
Acq On : 23 Sep 2025 17:42
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF092325

Quant Time: Sep 23 18:09:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 17:50:26 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.352	0.423	-20.2	104	0.00
49		Acenaphthylene	1.604	1.696	-5.7	98	0.00
50		Dimethylphthalate	1.219	1.299	-6.6	99	0.00
51		2,6-Dinitrotoluene	0.200	0.242	-21.0	104	0.00
52	C	Acenaphthene	1.056	1.105	-4.6	97	0.00
53		3-Nitroaniline	0.243	0.289	-18.9	100	0.00
54	P	2,4-Dinitrophenol	0.064	0.074	-15.6	115	0.00
55		Dibenzofuran	1.493	1.577	-5.6	99	0.00
56	P	4-Nitrophenol	0.196	0.224	-14.3	106	0.00
57		2,4-Dinitrotoluene	0.261	0.330	-26.4#	105	0.00
58		Fluorene	1.110	1.169	-5.3	100	0.00
59		2,3,4,6-Tetrachlorophenol	0.339	0.390	-15.0	102	0.00
60		Diethylphthalate	1.141	1.232	-8.0	99	0.00
61		4-Chlorophenyl-phenylether	0.566	0.597	-5.5	99	0.00
62		4-Nitroaniline	0.228	0.274	-20.2	101	-0.01
63		Azobenzene	1.203	1.286	-6.9	98	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	99	0.00
65		4,6-Dinitro-2-methylphenol	0.067	0.082	-22.4	117	0.00
66	c	n-Nitrosodiphenylamine	0.658	0.682	-3.6	99	0.00
67		4-Bromophenyl-phenylether	0.341	0.365	-7.0	101	0.00
68		Hexachlorobenzene	0.470	0.501	-6.6	101	0.00
69		Atrazine	0.190	0.215	-13.2	101	0.00
70	C	Pentachlorophenol	0.234	0.271	-15.8	105	0.00
71		Phenanthrene	1.027	1.086	-5.7	100	0.00
72		Anthracene	1.030	1.114	-8.2	102	0.00
73		Carbazole	0.901	0.993	-10.2	101	0.00
74		Di-n-butylphthalate	1.036	1.196	-15.4	103	0.00
75	C	Fluoranthene	1.033	1.188	-15.0	103	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	103	0.00
77		Benzidine	0.487	0.490	-0.6	98	0.00
78		Pyrene	0.983	1.011	-2.8	103	0.00
79	S	Terphenyl-d14	0.983	1.028	-4.6	103	0.00
80		Butylbenzylphthalate	0.340	0.397	-16.8	104	0.00
81		Benzo(a)anthracene	1.074	1.109	-3.3	99	0.00
82		3,3'-Dichlorobenzidine	0.465	0.497	-6.9	103	0.00
83		Chrysene	0.972	1.064	-9.5	107	0.00
84		Bis(2-ethylhexyl)phthalate	0.499	0.570	-14.2	105	0.00
85	c	Di-n-octyl phthalate	0.905	1.007	-11.3	102	0.00
86	I	Perylene-d12	1.000	1.000	0.0	101	0.00
87		Indeno(1,2,3-cd)pyrene	1.517	1.635	-7.8	102	-0.02
88		Benzo(b)fluoranthene	1.018	1.169	-14.8	106	0.00
89		Benzo(k)fluoranthene	1.023	1.046	-2.2	97	0.00
90	C	Benzo(a)pyrene	0.957	1.035	-8.2	101	0.00
91		Dibenzo(a,h)anthracene	1.241	1.347	-8.5	102	-0.02
92		Benzo(g,h,i)perylene	1.196	1.294	-8.2	102	-0.02

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143799.D
Acq On : 23 Sep 2025 17:42
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF092325

Quant Time: Sep 23 18:09:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 17:50:26 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143799.D
Acq On : 23 Sep 2025 17:42
Operator : RC/JU
Sample : SSTDICV040
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Instrument :
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Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 17:50:26 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	96	0.00
2		1,4-Dioxane	40.000	43.647	-9.1	97	0.00
3		Pyridine	40.000	43.022	-7.6	96	0.00
4		n-Nitrosodimethylamine	40.000	42.441	-6.1	96	-0.02
5	S	2-Fluorophenol	80.000	86.573	-8.2	98	0.00
6		Aniline	40.000	41.592	-4.0	96	0.00
7	S	Phenol-d6	80.000	81.847	-2.3	95	0.00
8		2-Chlorophenol	40.000	42.456	-6.1	97	0.00
9		Benzaldehyde	40.000	46.667	-16.7	95	0.00
10	C	Phenol	40.000	41.956	-4.9	96	-0.01
11		bis(2-Chloroethyl)ether	40.000	41.891	-4.7	96	0.00
12		1,3-Dichlorobenzene	40.000	42.271	-5.7	97	0.00
13	C	1,4-Dichlorobenzene	40.000	41.859	-4.6	96	0.00
14		1,2-Dichlorobenzene	40.000	41.736	-4.3	96	0.00
15		Benzyl Alcohol	40.000	42.558	-6.4	97	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	41.868	-4.7	96	0.00
17		2-Methylphenol	40.000	42.304	-5.8	97	0.00
18		Hexachloroethane	40.000	42.878	-7.2	98	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	39.810	0.5	96	-0.01
20		3+4-Methylphenols	40.000	43.619	-9.0	98	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	96	0.00
22		Acetophenone	40.000	41.524	-3.8	95	0.00
23	S	Nitrobenzene-d5	80.000	90.799	-13.5	98	0.00
24		Nitrobenzene	40.000	43.582	-9.0	98	-0.01
25		Isophorone	40.000	41.778	-4.4	95	0.00
26	C	2-Nitrophenol	40.000	44.135	-10.3	106	0.00
27		2,4-Dimethylphenol	40.000	42.725	-6.8	96	0.00
28		bis(2-Chloroethoxy)methane	40.000	41.459	-3.6	94	0.00
29	C	2,4-Dichlorophenol	40.000	42.921	-7.3	97	0.00
30		1,2,4-Trichlorobenzene	40.000	42.395	-6.0	96	0.00
31		Naphthalene	40.000	42.019	-5.0	96	0.00
32		Benzoic acid	40.000	43.922	-9.8	103	-0.03
33		4-Chloroaniline	40.000	41.955	-4.9	96	0.00
34	C	Hexachlorobutadiene	40.000	42.413	-6.0	95	0.00
35		Caprolactam	40.000	44.018	-10.0	101	-0.02
36	C	4-Chloro-3-methylphenol	40.000	42.485	-6.2	97	0.00
37		2-Methylnaphthalene	40.000	41.689	-4.2	96	0.00
38		1-Methylnaphthalene	40.000	41.968	-4.9	96	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	98	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	41.989	-5.0	99	0.00
41	P	Hexachlorocyclopentadiene	40.000	43.786	-9.5	98	0.00
42	S	2,4,6-Tribromophenol	80.000	95.600	-19.5	102	0.00
43	C	2,4,6-Trichlorophenol	40.000	45.018	-12.5	99	0.00
44		2,4,5-Trichlorophenol	40.000	42.310	-5.8	97	0.00
45	S	2-Fluorobiphenyl	80.000	79.843	0.2	98	0.00
46		1,1'-Biphenyl	40.000	41.254	-3.1	98	0.00
47		2-Chloronaphthalene	40.000	41.133	-2.8	96	0.00

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143799.D
Acq On : 23 Sep 2025 17:42
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF092325

Quant Time: Sep 23 18:09:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 17:50:26 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	48.090	-20.2	104	0.00
49		Acenaphthylene	40.000	42.279	-5.7	98	0.00
50		Dimethylphthalate	40.000	42.624	-6.6	99	0.00
51		2,6-Dinitrotoluene	40.000	48.254	-20.6	104	0.00
52	C	Acenaphthene	40.000	41.869	-4.7	97	0.00
53		3-Nitroaniline	40.000	47.665	-19.2	100	0.00
54	P	2,4-Dinitrophenol	40.000	46.217	-15.5	115	0.00
55		Dibenzofuran	40.000	42.251	-5.6	99	0.00
56	P	4-Nitrophenol	40.000	45.864	-14.7	106	0.00
57		2,4-Dinitrotoluene	40.000	44.618	-11.5	105	0.00
58		Fluorene	40.000	42.132	-5.3	100	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	46.097	-15.2	102	0.00
60		Diethylphthalate	40.000	43.199	-8.0	99	0.00
61		4-Chlorophenyl-phenylether	40.000	42.203	-5.5	99	0.00
62		4-Nitroaniline	40.000	47.936	-19.8	101	-0.01
63		Azobenzene	40.000	42.769	-6.9	98	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	99	0.00
65		4,6-Dinitro-2-methylphenol	40.000	45.452	-13.6	117	0.00
66	c	n-Nitrosodiphenylamine	40.000	41.480	-3.7	99	0.00
67		4-Bromophenyl-phenylether	40.000	42.884	-7.2	101	0.00
68		Hexachlorobenzene	40.000	42.661	-6.7	101	0.00
69		Atrazine	40.000	45.083	-12.7	101	0.00
70	C	Pentachlorophenol	40.000	46.307	-15.8	105	0.00
71		Phenanthrene	40.000	42.299	-5.7	100	0.00
72		Anthracene	40.000	43.252	-8.1	102	0.00
73		Carbazole	40.000	44.114	-10.3	101	0.00
74		Di-n-butylphthalate	40.000	46.182	-15.5	103	0.00
75	C	Fluoranthene	40.000	46.027	-15.1	103	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	103	0.00
77		Benzidine	40.000	40.236	-0.6	98	0.00
78		Pyrene	40.000	41.117	-2.8	103	0.00
79	S	Terphenyl-d14	80.000	80.752	-0.9	103	0.00
80		Butylbenzylphthalate	40.000	46.674	-16.7	104	0.00
81		Benzo(a)anthracene	40.000	41.296	-3.2	99	0.00
82		3,3'-Dichlorobenzidine	40.000	42.723	-6.8	103	0.00
83		Chrysene	40.000	43.791	-9.5	107	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	45.704	-14.3	105	0.00
85	c	Di-n-octyl phthalate	40.000	44.512	-11.3	102	0.00
86	I	Perylene-d12	20.000	20.000	0.0	101	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	43.111	-7.8	102	-0.02
88		Benzo(b)fluoranthene	40.000	45.894	-14.7	106	0.00
89		Benzo(k)fluoranthene	40.000	40.882	-2.2	97	0.00
90	C	Benzo(a)pyrene	40.000	43.246	-8.1	101	0.00
91		Dibenzo(a,h)anthracene	40.000	43.395	-8.5	102	-0.02
92		Benzo(g,h,i)perylene	40.000	43.247	-8.1	102	-0.02

ICAL Form

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143799.D
Acq On : 23 Sep 2025 17:42
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF092325

Quant Time: Sep 23 18:09:57 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 17:50:26 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Raw Data: **BF143830.D**

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3177

Instrument ID: BNA_F Calibration Date/Time: 09/30/2025 13:36

Lab File ID: BF143830.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:28 15:27

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
n-Nitrosodimethylamine	0.797	0.675		-15.3	
Pyridine	1.590	1.579		-0.7	
2-Fluorophenol	1.231	1.238		0.6	
Benzaldehyde	1.246	1.159		-7.0	
Aniline	2.064	2.022		-2.0	
Phenol-d6	1.422	1.418		-0.3	
Phenol	1.653	1.739		5.2	20.0
bis(2-Chloroethyl)ether	1.296	1.278		-1.4	
2-Chlorophenol	1.260	1.285		2.0	
Benzyl Alcohol	1.028	1.068		3.9	
2-Methylphenol	0.976	0.992		1.6	
2,2-oxybis(1-Chloropropane)	3.073	2.569		-16.4	
Acetophenone	0.439	0.430		-2.0	
3+4-Methylphenols	1.185	1.233		4.1	
n-Nitroso-di-n-propylamine	0.915	0.880	0.050	-3.8	
Nitrobenzene-d5	0.327	0.340		4.0	
Hexachloroethane	0.514	0.502		-2.3	
Nitrobenzene	0.362	0.371		2.5	
Isophorone	0.637	0.640		0.5	
2-Nitrophenol	0.132	0.165		25.0	20.0
2,4-Dimethylphenol	0.285	0.289		1.4	
bis(2-Chloroethoxy)methane	0.414	0.409		-1.2	
2,4-Dichlorophenol	0.280	0.290		3.6	20.0
Benzoic acid	0.137	0.152		10.9	
Naphthalene	0.957	0.950		-0.7	
4-Chloroaniline	0.336	0.344		2.4	
Hexachlorobutadiene	0.217	0.231		6.5	20.0
Caprolactam	0.072	0.076		5.6	
4-Chloro-3-methylphenol	0.263	0.273		3.8	20.0
2-Methylnaphthalene	0.611	0.620		1.5	
Hexachlorocyclopentadiene	0.383	0.363	0.050	-5.2	
2,4,6-Trichlorophenol	0.378	0.398		5.3	20.0
2-Fluorobiphenyl	1.282	1.279		-0.2	
2,4,5-Trichlorophenol	0.395	0.418		5.8	
1,1-Biphenyl	1.448	1.406		-2.9	
2-Chloronaphthalene	1.165	1.134		-2.7	
2-Nitroaniline	0.352	0.398		13.1	
Dimethylphthalate	1.219	1.232		1.1	
Acenaphthylene	1.604	1.578		-1.6	

Raw Data: **BF143830.D**

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3177

Instrument ID: BNA_F Calibration Date/Time: 09/30/2025 13:36

Lab File ID: BF143830.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:28 15:27

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
2,6-Dinitrotoluene	0.200	0.235		17.5	
3-Nitroaniline	0.243	0.275		13.2	
Acenaphthene	1.056	1.037		-1.8	20.0
2,4-Dinitrophenol	0.064	0.076	0.050	18.8	
4-Nitrophenol	0.196	0.189	0.050	-3.6	
Dibenzofuran	1.493	1.484		-0.6	
2,4-Dinitrotoluene	0.261	0.311		19.2	
Diethylphthalate	1.141	1.133		-0.7	
4-Chlorophenyl-phenylether	0.566	0.582		2.8	
Fluorene	1.110	1.116		0.5	
4-Nitroaniline	0.228	0.247		8.3	
4,6-Dinitro-2-methylphenol	0.067	0.082		22.4	
n-Nitrosodiphenylamine	0.658	0.657		-0.2	20.0
Azobenzene	1.203	1.152		-4.2	
2,4,6-Tribromophenol	0.296	0.339		14.5	
4-Bromophenyl-phenylether	0.341	0.380		11.4	
Hexachlorobenzene	0.470	0.541		15.1	
Atrazine	0.190	0.192		1.1	
Pentachlorophenol	0.234	0.266		13.7	20.0
Phenanthrene	1.027	1.014		-1.3	
Anthracene	1.030	1.027		-0.3	
Carbazole	0.901	0.875		-2.9	
Di-n-butylphthalate	1.036	1.018		-1.7	
Fluoranthene	1.033	0.998		-3.4	20.0
Benzidine	0.487	0.439		-9.9	
Pyrene	0.983	1.061		7.9	
Terphenyl-d14	0.983	1.123		14.2	
Butylbenzylphthalate	0.340	0.359		5.6	
3,3-Dichlorobenzidine	0.465	0.471		1.3	
Benzo(a)anthracene	1.074	1.098		2.2	
Chrysene	0.972	0.954		-1.9	
Bis(2-ethylhexyl)phthalate	0.499	0.481		-3.6	
Di-n-octyl phthalate	0.905	0.816		-9.8	20.0
Benzo(b)fluoranthene	1.019	1.000		-1.8	
Benzo(k)fluoranthene	1.023	1.018		-0.5	
Benzo(a)pyrene	0.957	0.960		0.3	20.0
Indeno(1,2,3-cd)pyrene	1.517	1.699		12.0	
Dibenzo(a,h)anthracene	1.241	1.389		11.9	
Benzo(g,h,i)perylene	1.196	1.349		12.8	

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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: ROYF02

Lab Code: ACE SDG No.: Q3177

Instrument ID: BNA_F Calibration Date/Time: 09/30/2025 13:36

Lab File ID: BF143830.D Init. Calib. Date(s): 09/23/2025 09/23/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:28 15:27

GC Column: DB-UI ID: 0.18 (mm)

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
1,2,4,5-Tetrachlorobenzene	0.604	0.612		1.3	
1,4-Dioxane	0.589	0.581		-1.4	20.0
2,3,4,6-Tetrachlorophenol	0.339	0.391		15.3	
1-Methylnaphthalene	0.584	0.587		0.5	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143830.D
Acq On : 30 Sep 2025 13:36
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Sep 30 13:56:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.886	152	130920	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	478225	20.000	ng		0.00
39) Acenaphthene-d10	9.927	164	247405	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	381551	20.000	ng		0.00
76) Chrysene-d12	14.057	240	372937	20.000	ng		0.00
86) Perylene-d12	15.539	264	533890	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.492	112	648081	80.426	ng		0.00
7) Phenol-d6	6.504	99	742413	79.738	ng		0.00
23) Nitrobenzene-d5	7.451	82	650198	83.224	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	335084	91.472	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1265568	79.825	ng		0.00
79) Terphenyl-d14	12.998	244	1675761	91.385	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.640	88	152069	39.427	ng		95
3) Pyridine	3.404	79	413563	39.723	ng		91
4) n-Nitrosodimethylamine	3.351	42	176687	33.846	ng	#	80
6) Aniline	6.545	93	529360	39.173	ng		100
8) 2-Chlorophenol	6.669	128	336366	40.775	ng		99
9) Benzaldehyde	6.439	77	303412	37.213	ng		97
10) Phenol	6.522	94	455343	42.075	ng		98
11) bis(2-Chloroethyl)ether	6.622	93	334548	39.436	ng		98
12) 1,3-Dichlorobenzene	6.828	146	380396	39.715	ng		99
13) 1,4-Dichlorobenzene	6.904	146	380195	39.775	ng		100
14) 1,2-Dichlorobenzene	7.057	146	361516	39.933	ng		99
15) Benzyl Alcohol	7.022	79	279665	41.570	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	672700	33.441	ng		96
17) 2-Methylphenol	7.133	107	259839	40.685	ng		98
18) Hexachloroethane	7.398	117	131384	39.085	ng		97
19) n-Nitroso-di-n-propyla...	7.298	70	230477	38.495	ng		88
20) 3+4-Methylphenols	7.286	107	322780	41.501	ng	#	88
22) Acetophenone	7.292	105	410925	39.122	ng		98
24) Nitrobenzene	7.469	77	354801	40.971	ng		97
25) Isophorone	7.704	82	612449	40.228	ng		100
26) 2-Nitrophenol	7.781	139	157522	44.516	ng		98
27) 2,4-Dimethylphenol	7.816	122	276773	40.674	ng		98
28) bis(2-Chloroethoxy)met...	7.916	93	390981	39.528	ng		100
29) 2,4-Dichlorophenol	8.022	162	277758	41.484	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	287074	41.314	ng		99
31) Naphthalene	8.192	128	908702	39.693	ng		100
32) Benzoic acid	7.898	122	145243	44.239	ng		98
33) 4-Chloroaniline	8.233	127	329097	40.907	ng		99
34) Hexachlorobutadiene	8.310	225	221075	42.679	ng		100
35) Caprolactam	8.592	113	72282	42.236	ng	#	89
36) 4-Chloro-3-methylphenol	8.710	107	260718	41.518	ng		99
37) 2-Methylnaphthalene	8.880	142	593475	40.655	ng		100
38) 1-Methylnaphthalene	8.980	142	561593	40.193	ng		98
40) 1,2,4,5-Tetrachloroben...	9.045	216	302803	40.556	ng		99
41) Hexachlorocyclopentadiene	9.033	237	179490	37.932	ng		98
43) 2,4,6-Trichlorophenol	9.157	196	196715	42.077	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143830.D
Acq On : 30 Sep 2025 13:36
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Sep 30 13:56:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

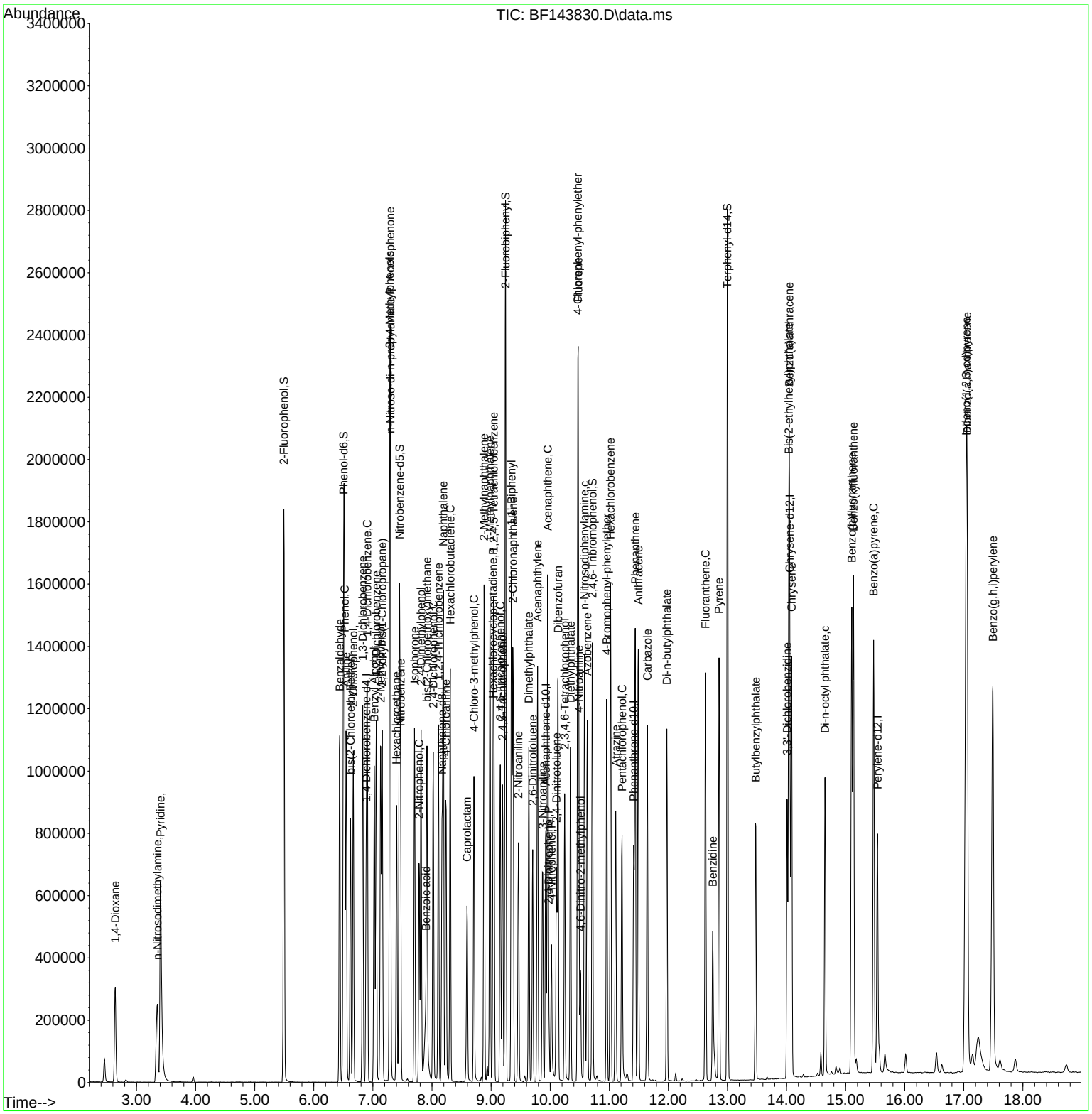
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	206739	42.277	ng		99
46) 1,1'-Biphenyl	9.345	154	695781	38.851	ng		99
47) 2-Chloronaphthalene	9.369	162	560923	38.910	ng		100
48) 2-Nitroaniline	9.463	65	197179	45.256	ng		100
49) Acenaphthylene	9.786	152	780870	39.347	ng		100
50) Dimethylphthalate	9.639	163	609515	40.421	ng		99
51) 2,6-Dinitrotoluene	9.704	165	116398	46.981	ng		96
52) Acenaphthene	9.957	154	513183	39.295	ng		99
53) 3-Nitroaniline	9.874	138	136105	45.322	ng		96
54) 2,4-Dinitrophenol	9.974	184	37418	46.822	ng		95
55) Dibenzofuran	10.133	168	734489	39.772	ng		98
56) 4-Nitrophenol	10.022	139	93704	38.721	ng		92
57) 2,4-Dinitrotoluene	10.104	165	153735	42.182	ng		97
58) Fluorene	10.474	166	552230	40.223	ng		98
59) 2,3,4,6-Tetrachlorophenol	10.245	232	193618	46.219	ng		94
60) Diethylphthalate	10.345	149	560595	39.714	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	287849	41.148	ng		95
62) 4-Nitroaniline	10.486	138	122222	43.284	ng		97
63) Azobenzene	10.627	77	569785	38.301	ng		96
65) 4,6-Dinitro-2-methylph...	10.516	198	62374	45.442	ng		81
66) n-Nitrosodiphenylamine	10.580	169	501336	39.953	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	289629	44.543	ng		96
68) Hexachlorobenzene	11.021	284	412701	46.056	ng		96
69) Atrazine	11.110	200	146359	40.279	ng		98
70) Pentachlorophenol	11.216	266	203294	45.577	ng		99
71) Phenanthrene	11.439	178	773409	39.482	ng		99
72) Anthracene	11.492	178	783620	39.881	ng		99
73) Carbazole	11.645	167	667475	38.853	ng		99
74) Di-n-butylphthalate	11.974	149	776585	39.305	ng		100
75) Fluoranthene	12.627	202	761566	38.654	ng		99
77) Benzidine	12.751	184	327636	36.053	ng		99
78) Pyrene	12.857	202	791289	43.157	ng		99
80) Butylbenzylphthalate	13.480	149	268110	42.266	ng		95
81) Benzo(a)anthracene	14.045	228	819198	40.888	ng		100
82) 3,3'-Dichlorobenzidine	14.009	252	351108	40.452	ng		99
83) Chrysene	14.086	228	711369	39.240	ng		100
84) Bis(2-ethylhexyl)phtha...	14.039	149	359102	38.621	ng		99
85) Di-n-octyl phthalate	14.651	149	608888	36.101	ng	#	94
87) Indeno(1,2,3-cd)pyrene	17.039	276	1813988	44.781	ng		98
88) Benzo(b)fluoranthene	15.104	252	1068149	39.287	ng		99
89) Benzo(k)fluoranthene	15.133	252	1087463	39.812	ng		99
90) Benzo(a)pyrene	15.474	252	1024891	40.103	ng		99
91) Dibenzo(a,h)anthracene	17.056	278	1483447	44.774	ng		99
92) Benzo(g,h,i)perylene	17.492	276	1440455	45.101	ng		99

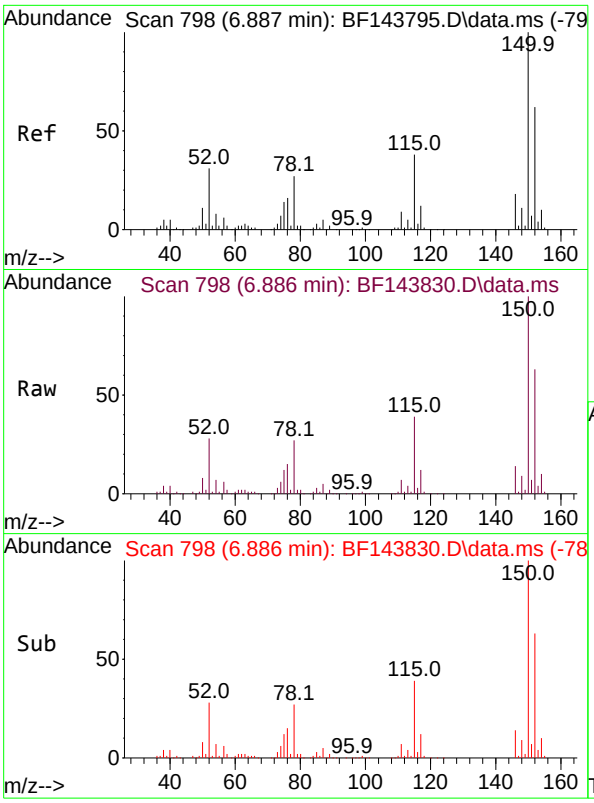
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143830.D
Acq On : 30 Sep 2025 13:36
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Sep 30 13:56:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration



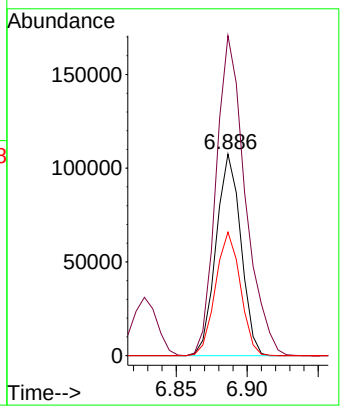


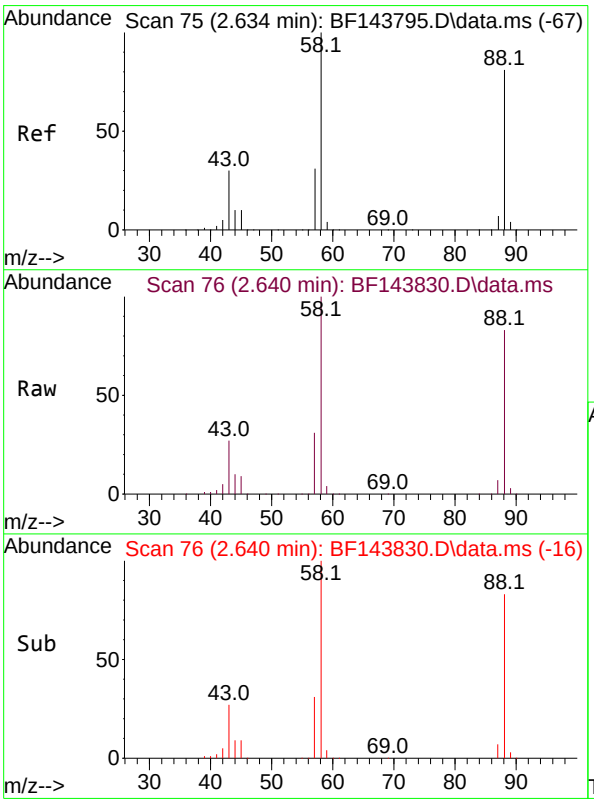
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 79
Delta R.T. -0.001 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 130920

Ion	Ratio	Lower	Upper
152	100		
150	158.7	129.6	194.4
115	61.2	49.0	73.4

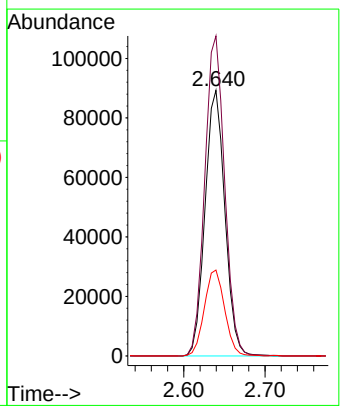


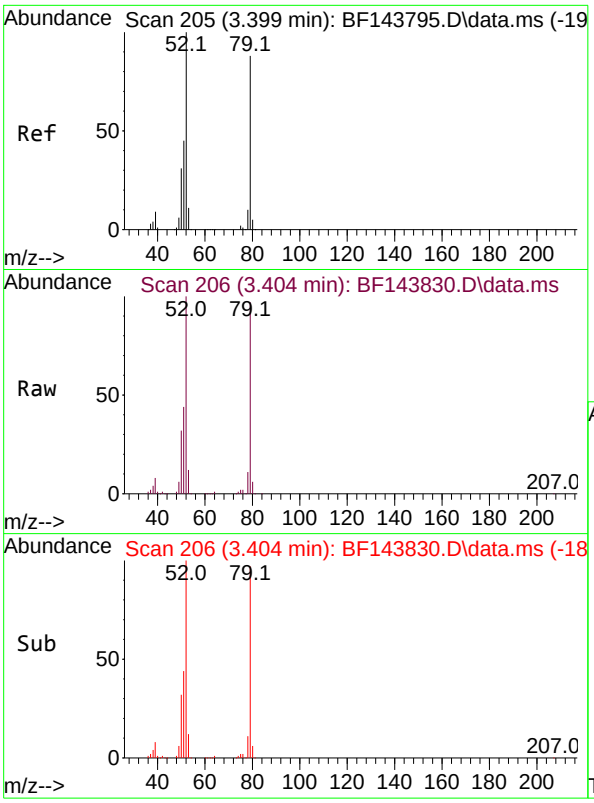


#2
1,4-Dioxane
Concen: 39.427 ng
RT: 2.640 min Scan# 76
Delta R.T. 0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion: 88 Resp: 152069

Ion	Ratio	Lower	Upper
88	100		
58	120.5	99.4	149.2
43	33.0	30.6	45.8



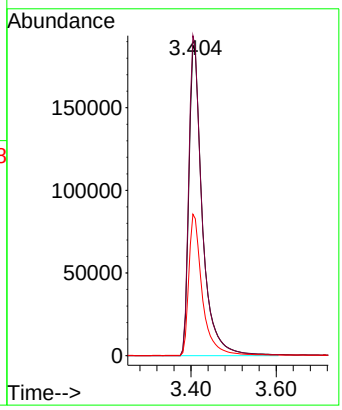


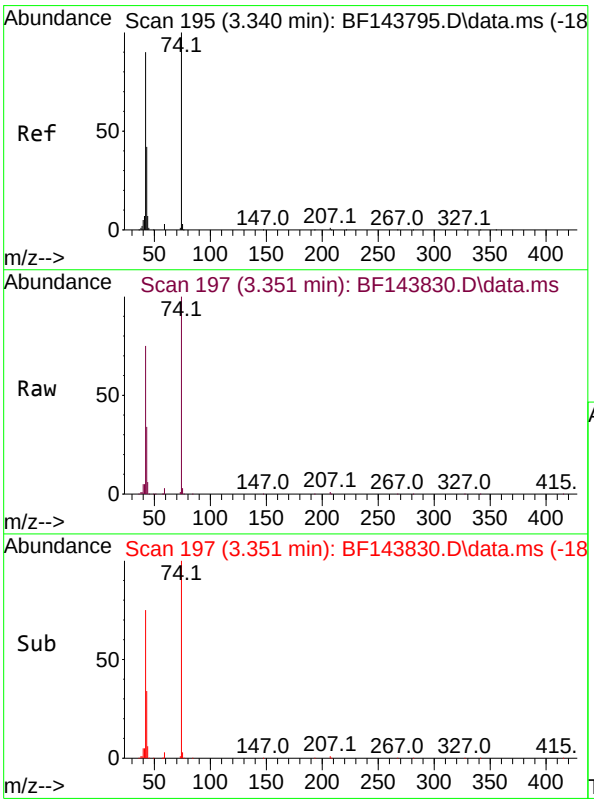
#3
Pyridine
Concen: 39.723 ng
RT: 3.404 min Scan# 20
Delta R.T. 0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 413563

Ion	Ratio	Lower	Upper
79	100		
52	103.1	90.5	135.7
51	45.5	40.6	61.0

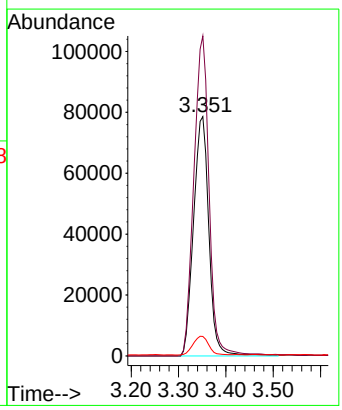


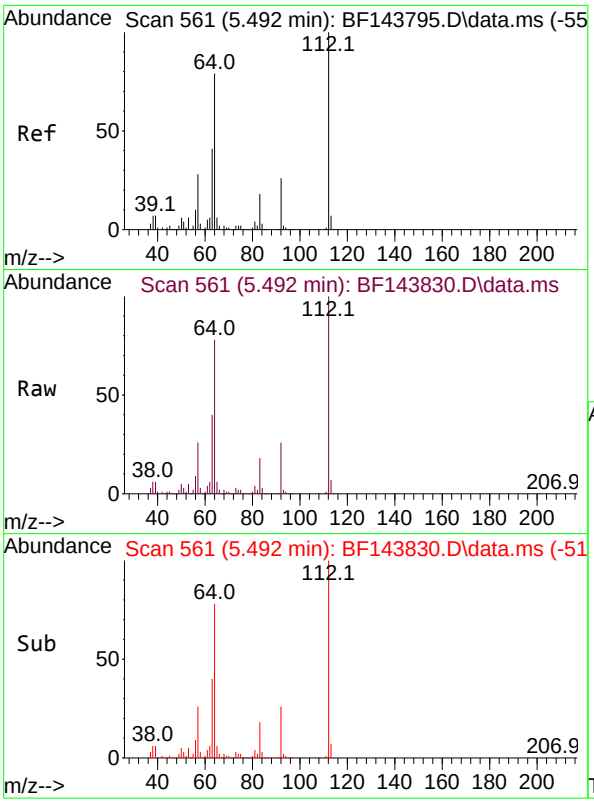


#4
n-Nitrosodimethylamine
Concen: 33.846 ng
RT: 3.351 min Scan# 197
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion: 42 Resp: 176687

Ion	Ratio	Lower	Upper
42	100		
74	133.8	89.1	133.7#
44	8.1	6.4	9.6



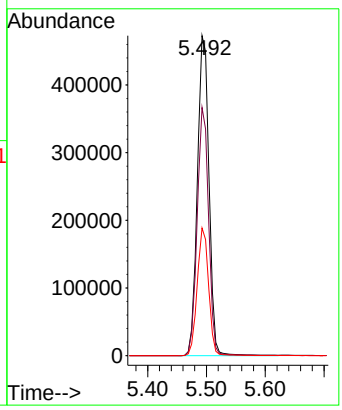


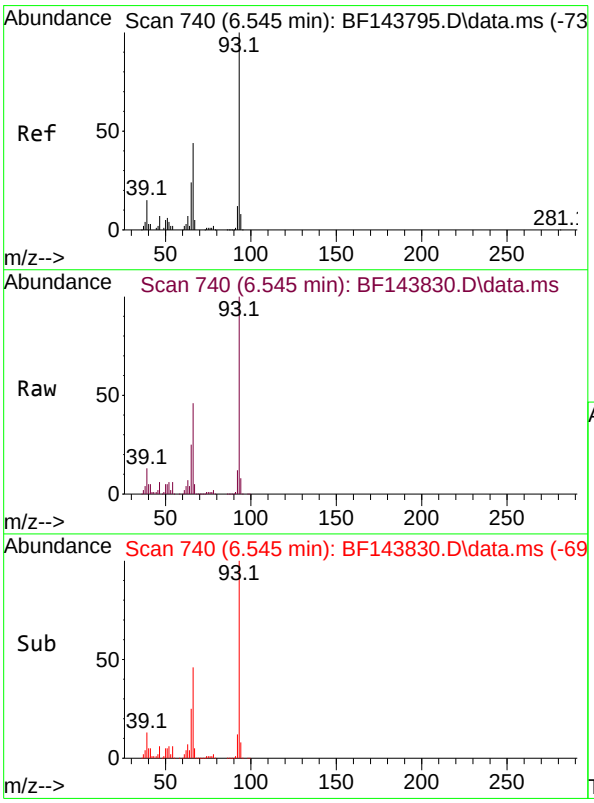
#5
2-Fluorophenol
Concen: 80.426 ng
RT: 5.492 min Scan# 5
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:112 Resp: 648081

Ion	Ratio	Lower	Upper
112	100		
64	77.5	63.0	94.4
63	39.9	32.6	49.0

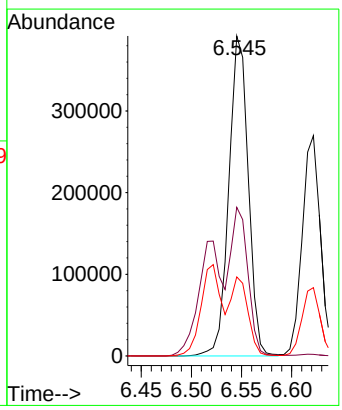


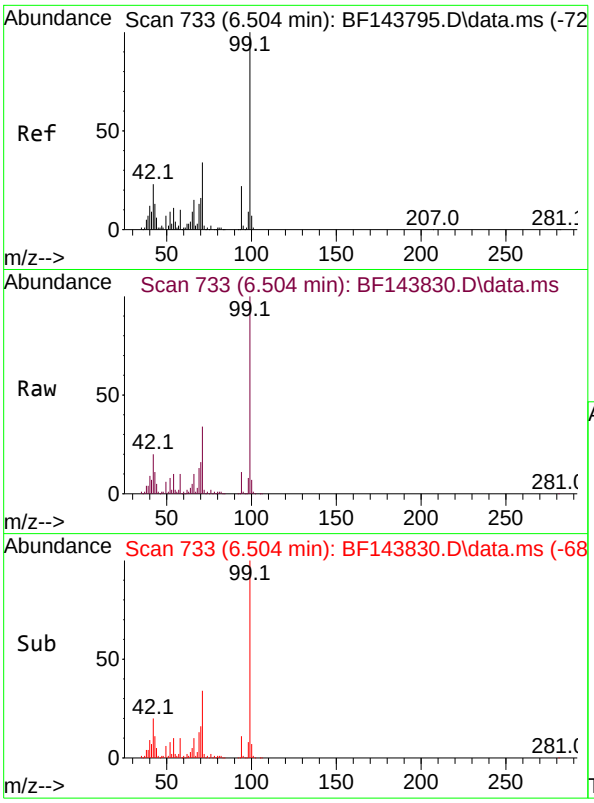


#6
Aniline
Concen: 39.173 ng
RT: 6.545 min Scan# 740
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion: 93 Resp: 529360

Ion	Ratio	Lower	Upper
93	100		
66	46.4	37.1	55.7
65	24.7	19.4	29.0



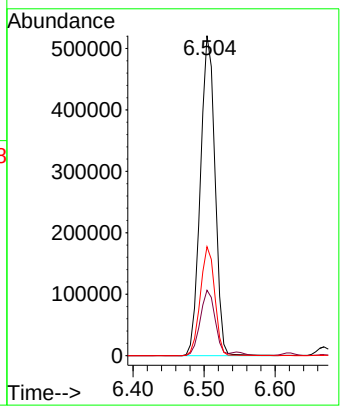


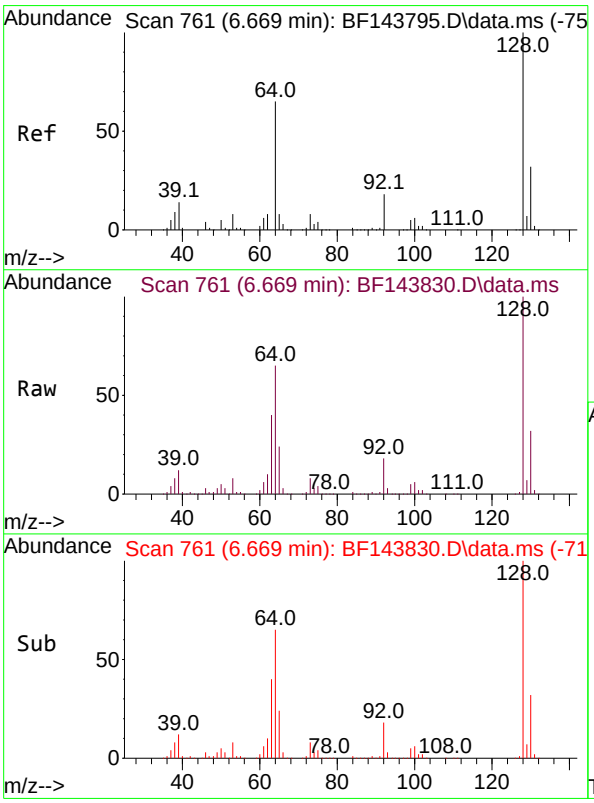
#7
Phenol-d6
Concen: 79.738 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 742413

Ion	Ratio	Lower	Upper
99	100		
42	20.4	18.6	28.0
71	34.0	27.0	40.4

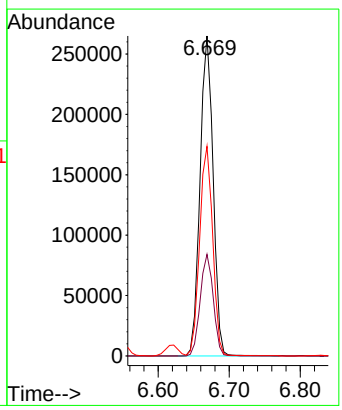


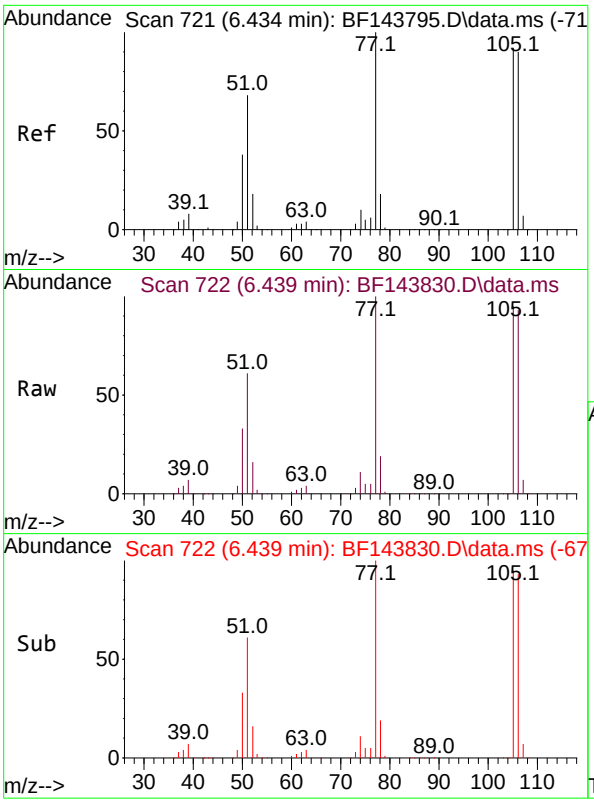


#8
2-Chlorophenol
Concen: 40.775 ng
RT: 6.669 min Scan# 761
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:128 Resp: 336366

Ion	Ratio	Lower	Upper
128	100		
130	31.7	12.2	52.2
64	65.5	46.5	86.5



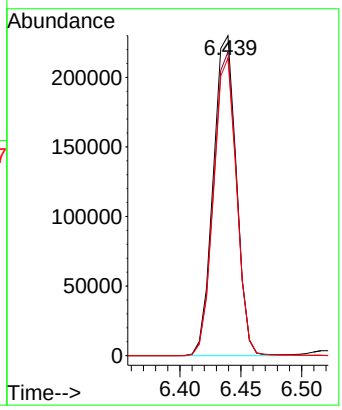


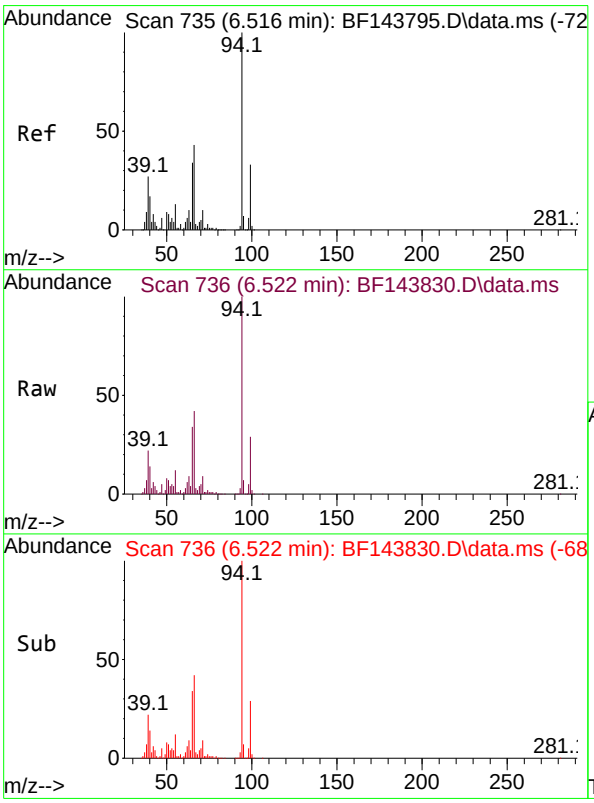
#9
Benzaldehyde
Concen: 37.213 ng
RT: 6.439 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 303412

Ion	Ratio	Lower	Upper
77	100		
105	94.9	71.8	111.8
106	92.9	69.8	109.8

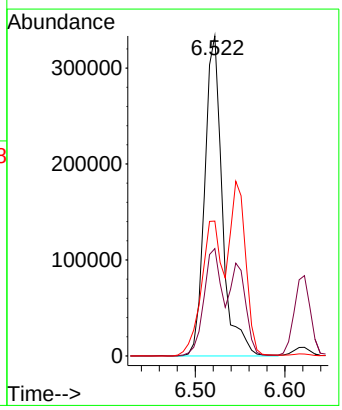


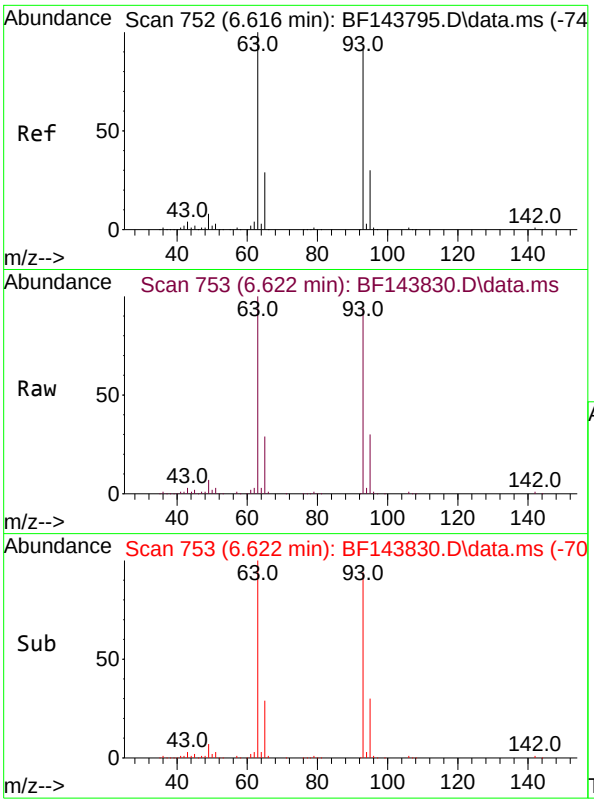


#10
Phenol
Concen: 42.075 ng
RT: 6.522 min Scan# 736
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion: 94 Resp: 455343

Ion	Ratio	Lower	Upper
94	100		
65	33.5	14.2	54.2
66	42.2	24.1	64.1



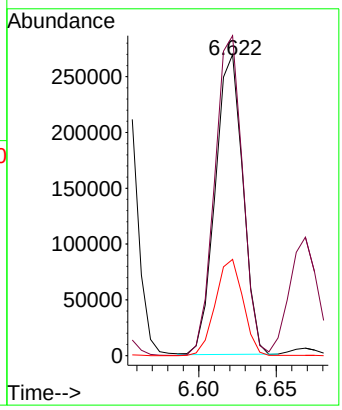


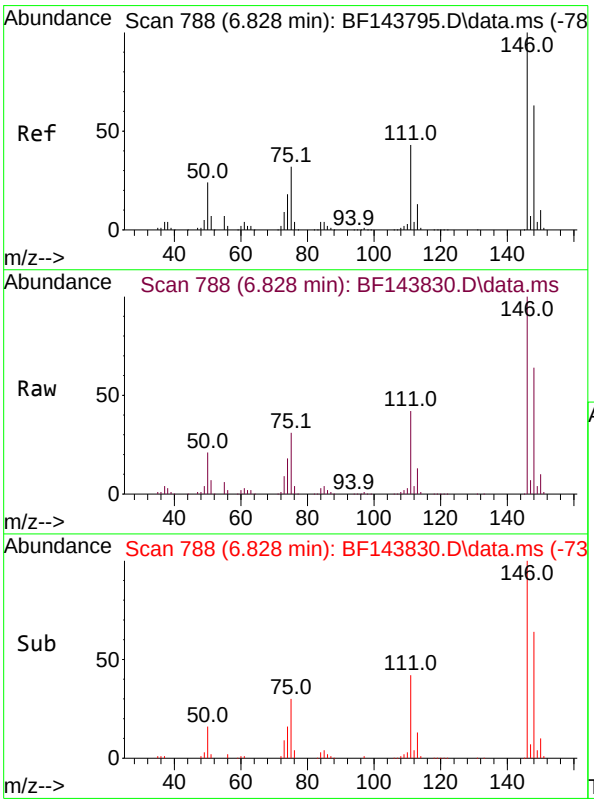
#11
bis(2-Chloroethyl)ether
Concen: 39.436 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 334548

Ion	Ratio	Lower	Upper
93	100		
63	106.3	89.2	129.2
95	32.0	12.9	52.9

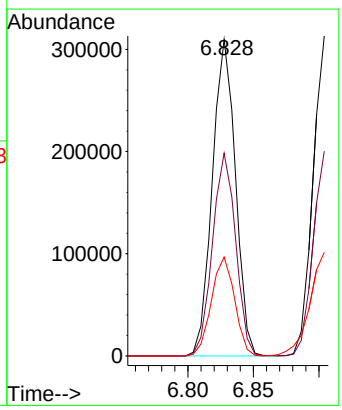


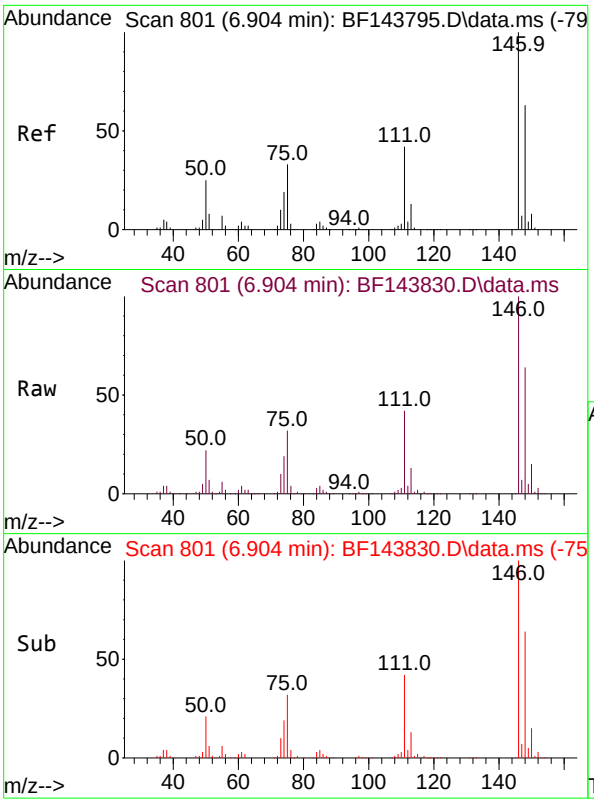


#12
1,3-Dichlorobenzene
Concen: 39.715 ng
RT: 6.828 min Scan# 788
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:146 Resp: 380396

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.4	75.6
75	31.2	25.6	38.4



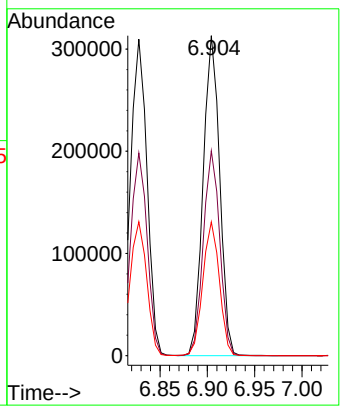


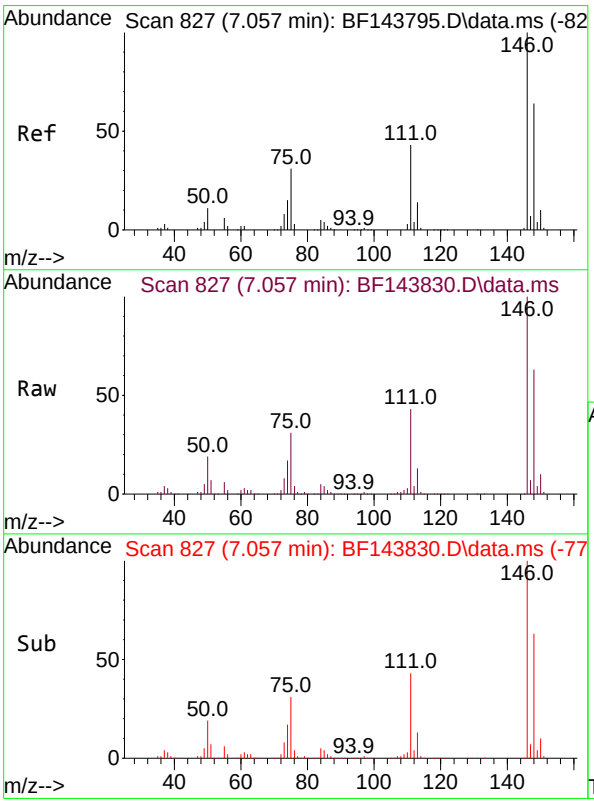
#13
1,4-Dichlorobenzene
Concen: 39.775 ng
RT: 6.904 min Scan# 80
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:146 Resp: 380195

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.7	76.1
111	41.8	33.4	50.2

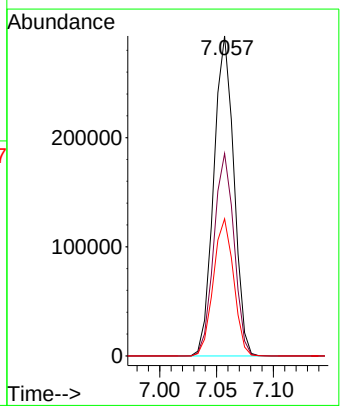


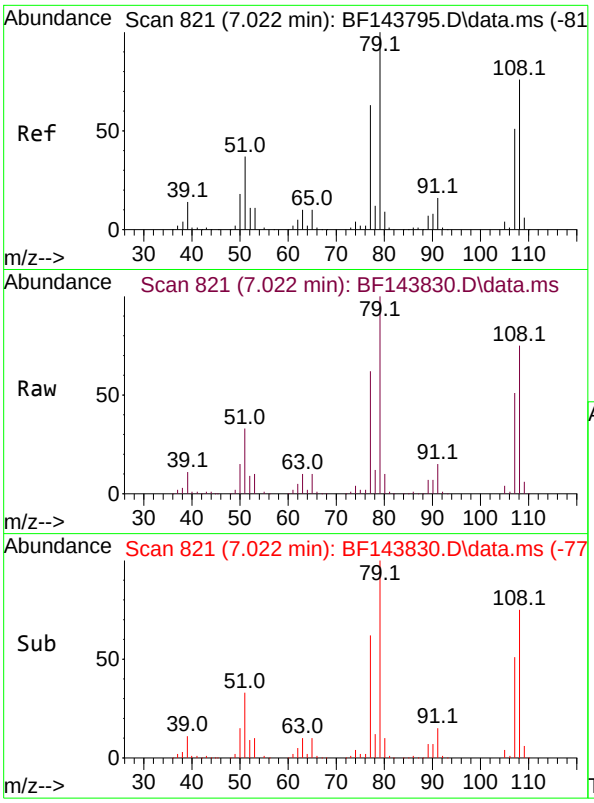


#14
1,2-Dichlorobenzene
Concen: 39.933 ng
RT: 7.057 min Scan# 827
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:146 Resp: 361516

Ion	Ratio	Lower	Upper
146	100		
148	63.2	51.1	76.7
111	42.8	34.3	51.5



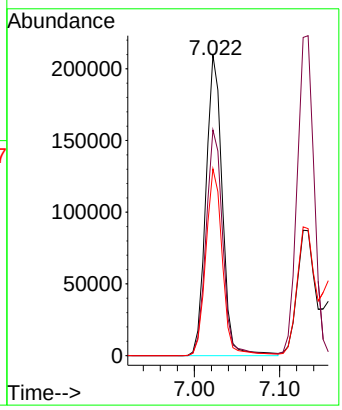


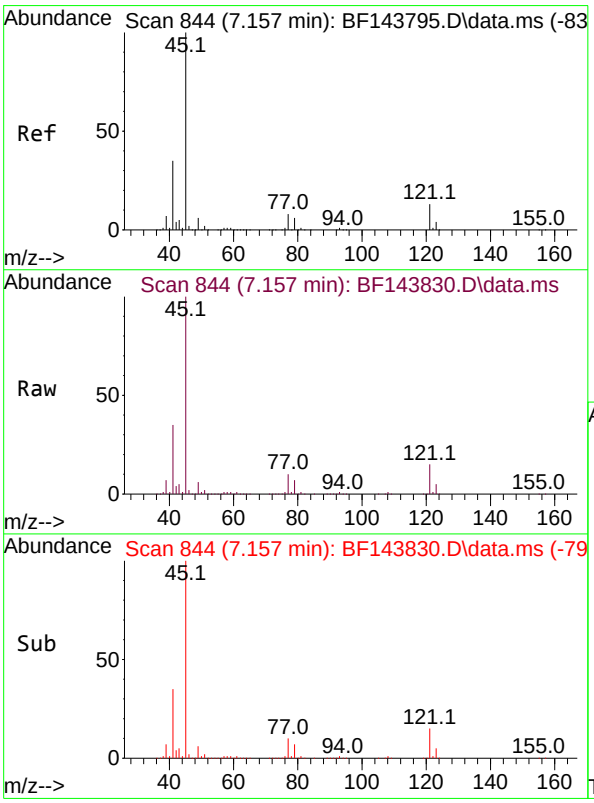
#15
Benzyl Alcohol
Concen: 41.570 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 79 Resp: 279665

Ion	Ratio	Lower	Upper
79	100		
108	75.1	60.5	90.7
77	62.1	50.3	75.5

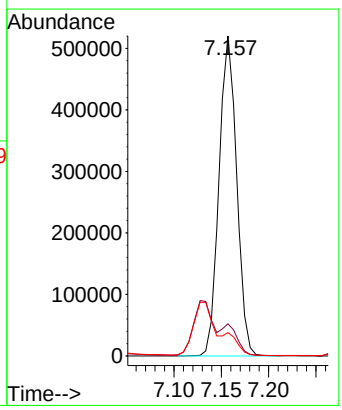


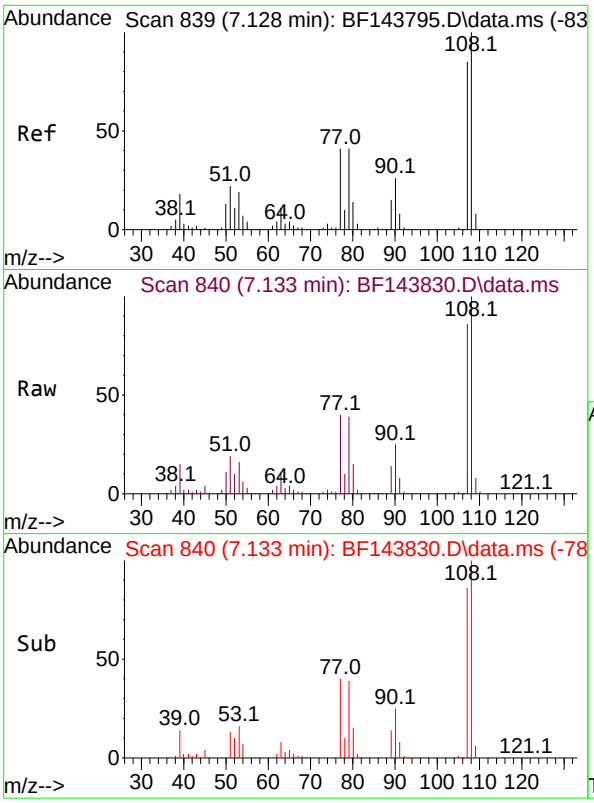


#16
2,2'-oxybis(1-Chloropropane)
Concen: 33.441 ng
RT: 7.157 min Scan# 844
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion: 45 Resp: 672700

Ion	Ratio	Lower	Upper
45	100		
77	10.0	0.0	28.5
79	7.3	0.0	26.3



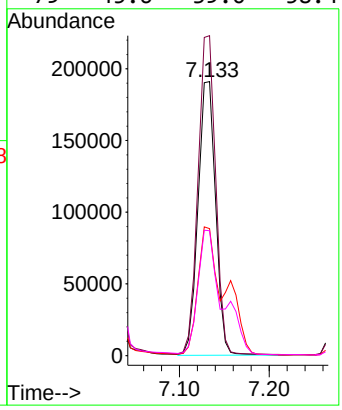


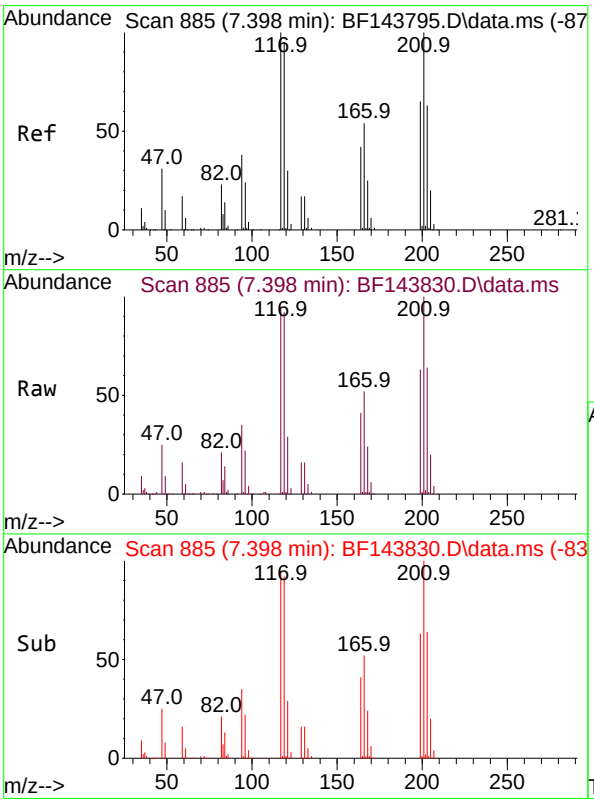
#17
2-Methylphenol
Concen: 40.685 ng
RT: 7.133 min Scan# 84
Delta R.T. -0.001 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:107 Resp: 259839

Ion	Ratio	Lower	Upper
107	100		
108	116.8	94.2	141.4
77	46.4	38.6	58.0
79	45.6	39.0	58.4

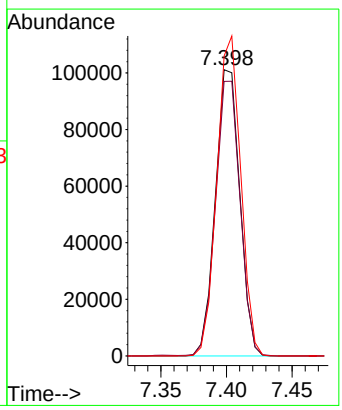


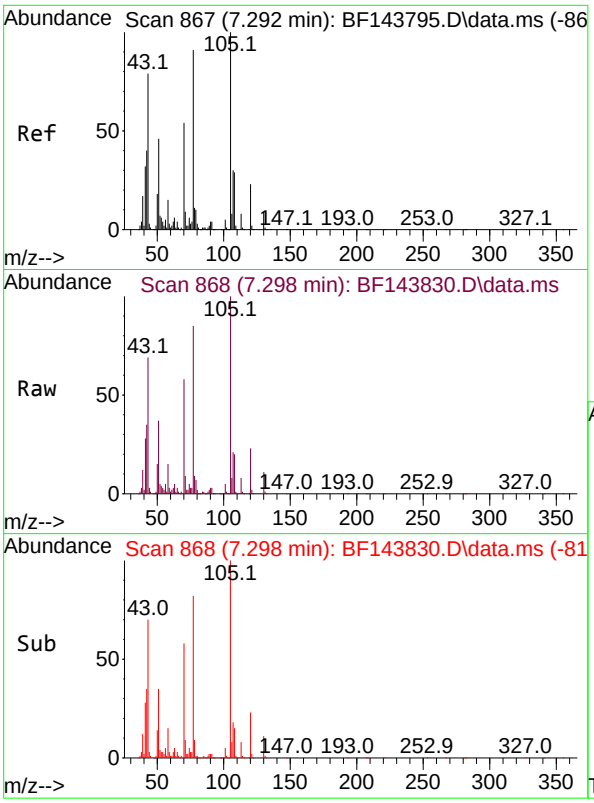


#18
Hexachloroethane
Concen: 39.085 ng
RT: 7.398 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:117 Resp: 131384

Ion	Ratio	Lower	Upper
117	100		
119	95.9	76.2	114.2
201	104.8	79.7	119.5



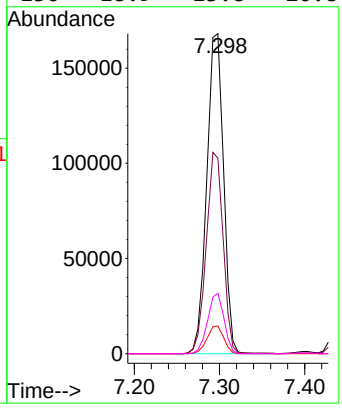


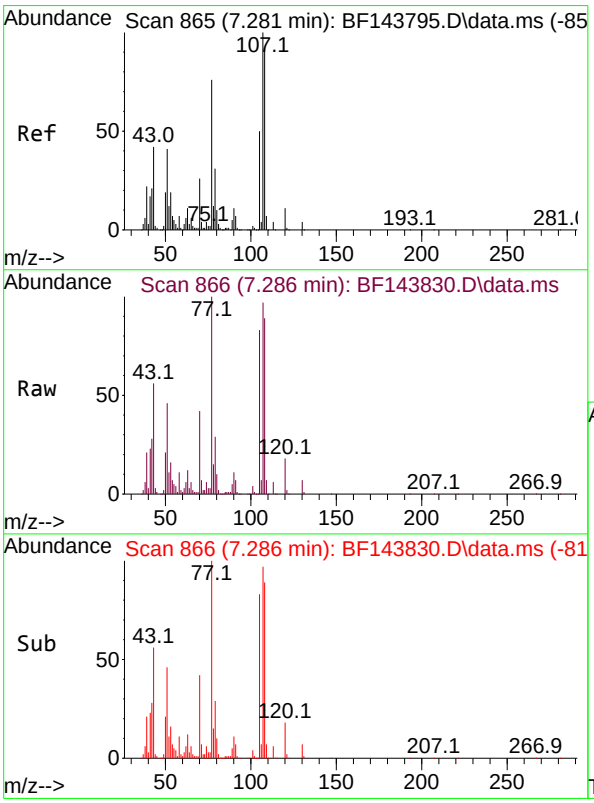
#19
n-Nitroso-di-n-propylamine
Concen: 38.495 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 70 Resp: 230477

Ion	Ratio	Lower	Upper
70	100		
42	61.1	59.4	89.0
101	8.6	7.1	10.7
130	18.9	13.8	20.8

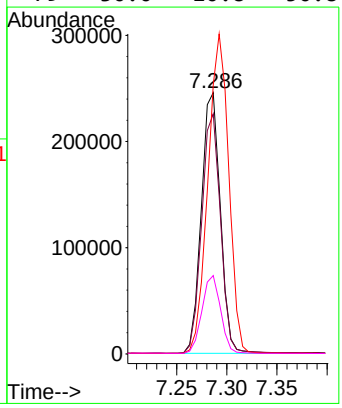


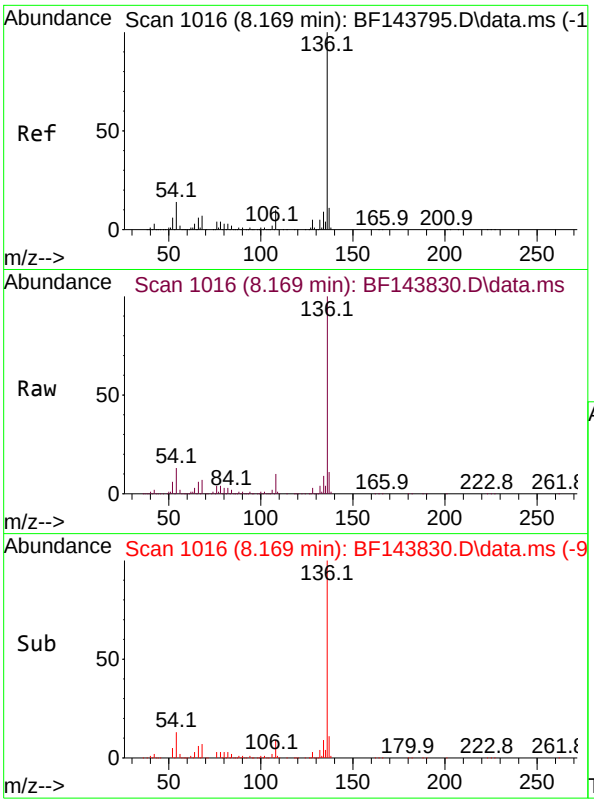


#20
3+4-Methylphenols
Concen: 41.501 ng
RT: 7.286 min Scan# 866
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:107 Resp: 322780

Ion	Ratio	Lower	Upper
107	100		
108	91.9	72.5	112.5
77	103.0	56.2	96.2#
79	30.0	10.8	50.8



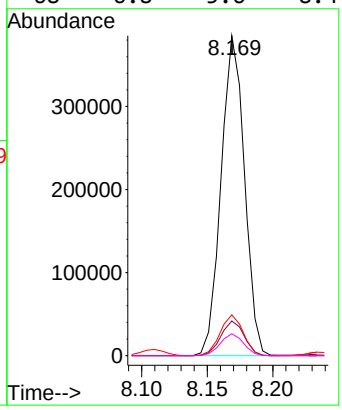


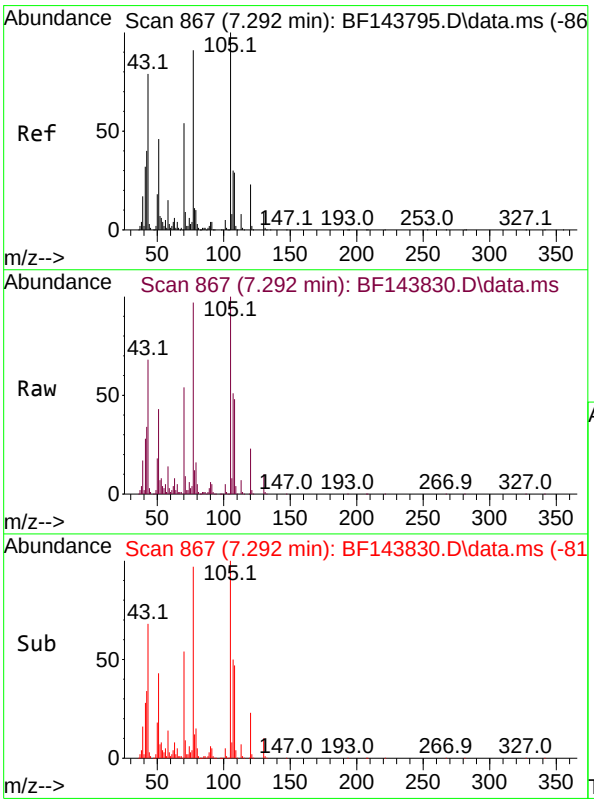
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:136 Resp: 478225

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	12.7	11.2	16.8
68	6.8	5.6	8.4

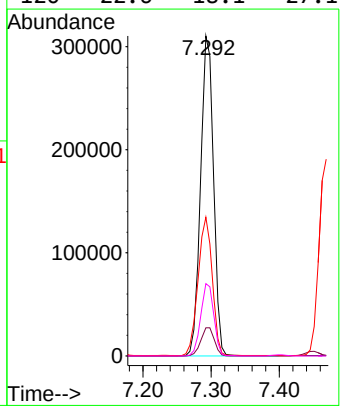


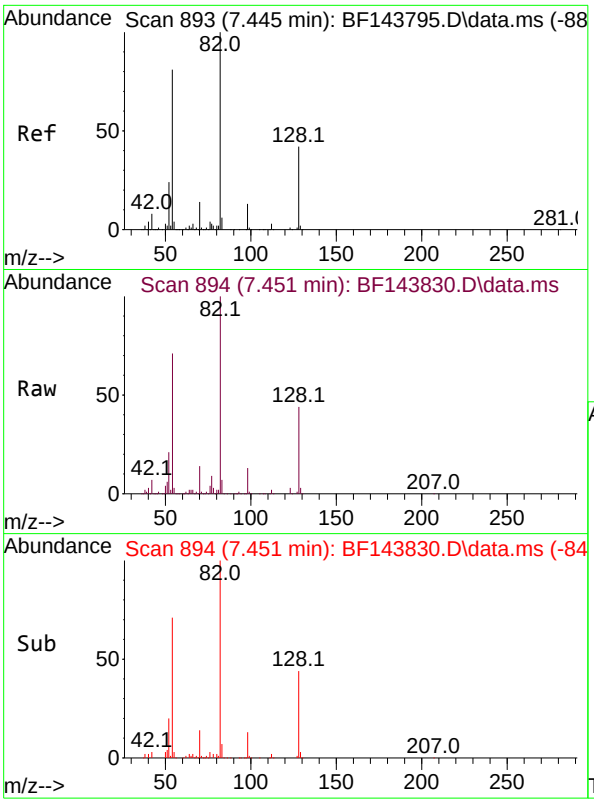


#22
Acetophenone
Concen: 39.122 ng
RT: 7.292 min Scan# 867
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:105 Resp: 410925

Ion	Ratio	Lower	Upper
105	100		
71	8.8	7.0	10.4
51	43.3	36.6	55.0
120	22.6	18.1	27.1



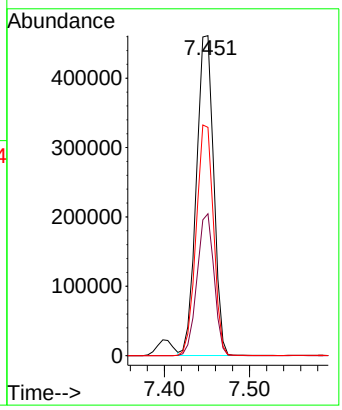


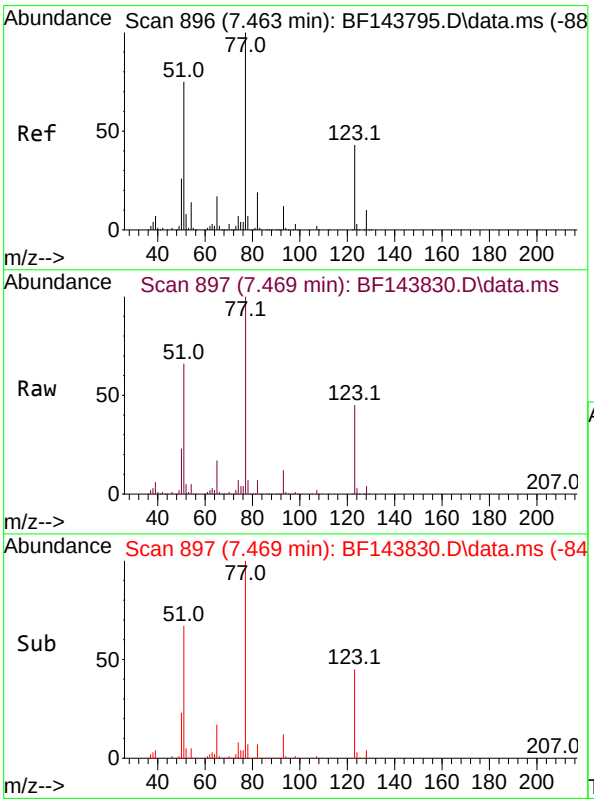
#23
Nitrobenzene-d5
Concen: 83.224 ng
RT: 7.451 min Scan# 8
Delta R.T. 0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 650198

Ion	Ratio	Lower	Upper
82	100		
128	44.3	33.3	49.9
54	71.3	64.2	96.4

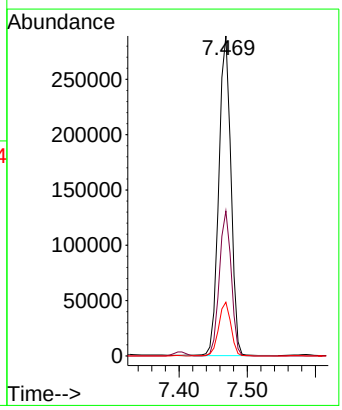


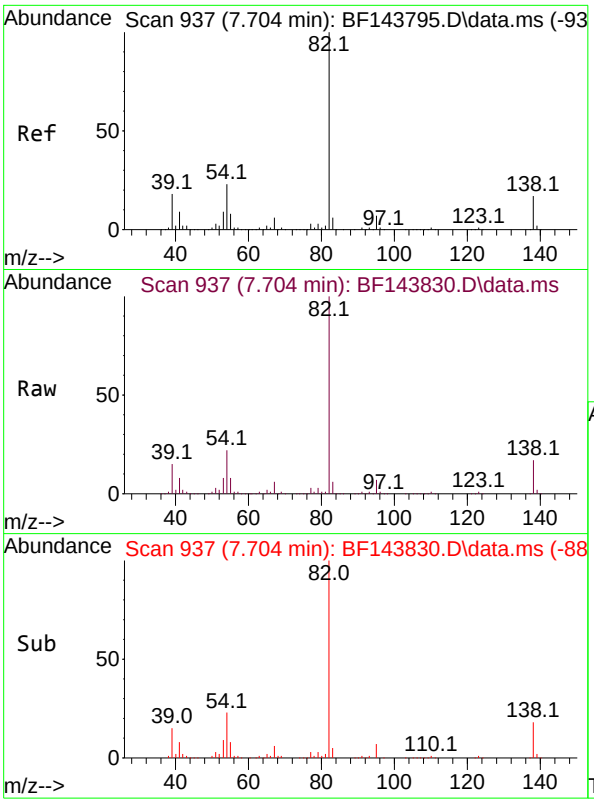


#24
Nitrobenzene
Concen: 40.971 ng
RT: 7.469 min Scan# 897
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion: 77 Resp: 354801

Ion	Ratio	Lower	Upper
77	100		
123	45.3	34.0	51.0
65	16.8	13.5	20.3



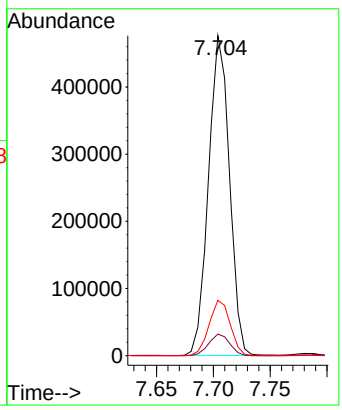


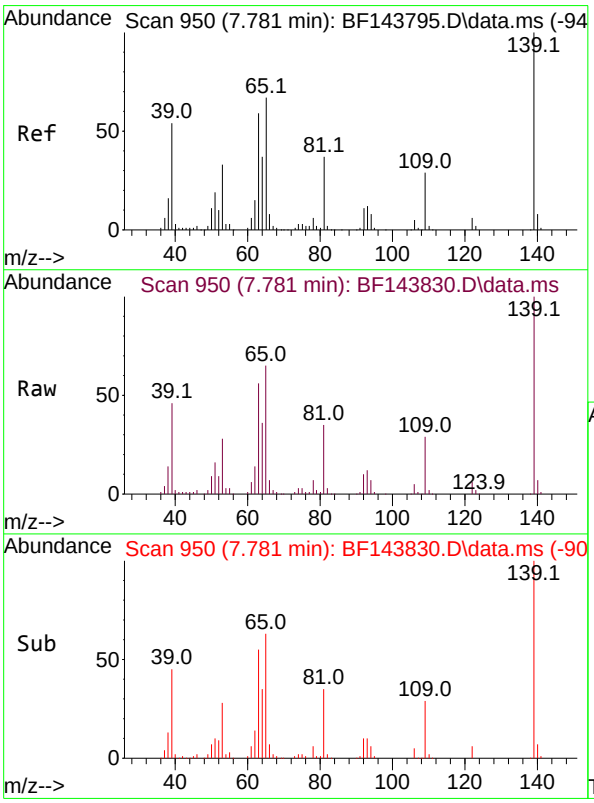
#25
Isophorone
Concen: 40.228 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 82 Resp: 612449

Ion	Ratio	Lower	Upper
82	100		
95	6.7	5.4	8.2
138	17.3	13.7	20.5

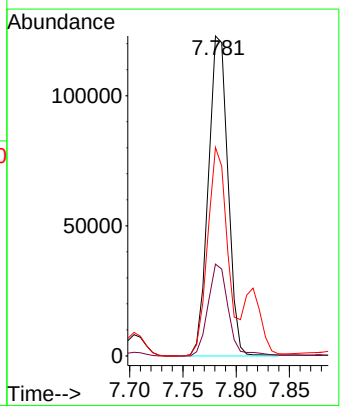


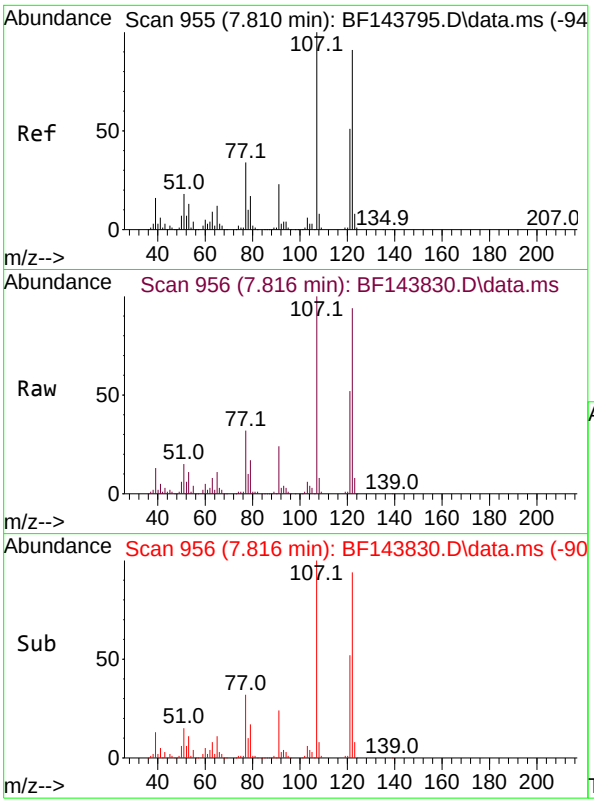


#26
2-Nitrophenol
Concen: 44.516 ng
RT: 7.781 min Scan# 950
Delta R.T. -0.005 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:139 Resp: 157522

Ion	Ratio	Lower	Upper
139	100		
109	28.7	23.3	34.9
65	65.2	53.8	80.6



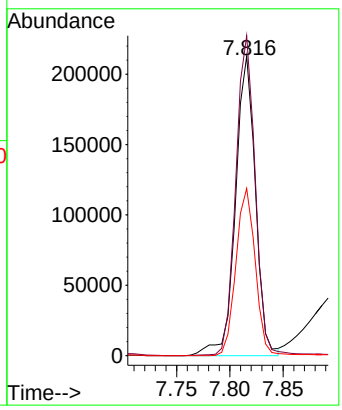


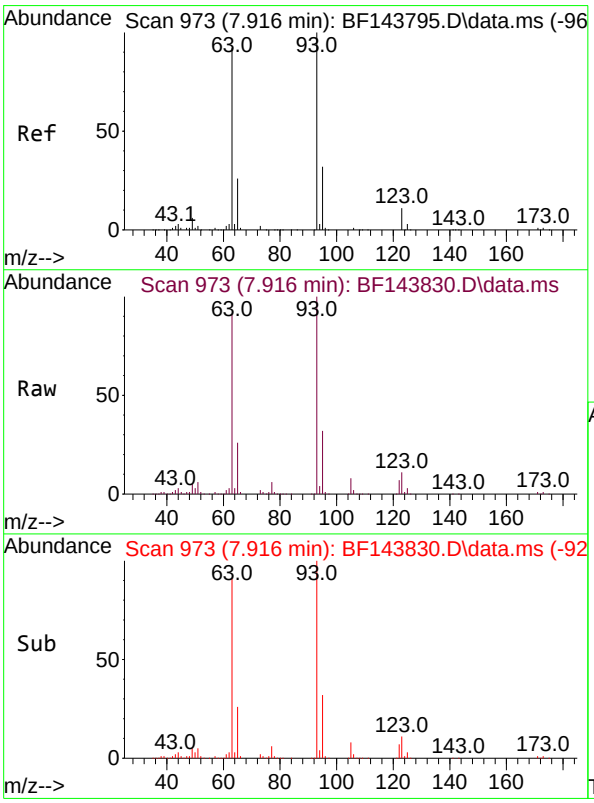
#27
2,4-Dimethylphenol
Concen: 40.674 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:122 Resp: 276773

Ion	Ratio	Lower	Upper
122	100		
107	106.8	87.5	131.3
121	55.8	44.2	66.4

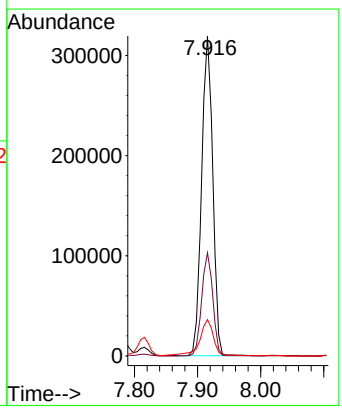


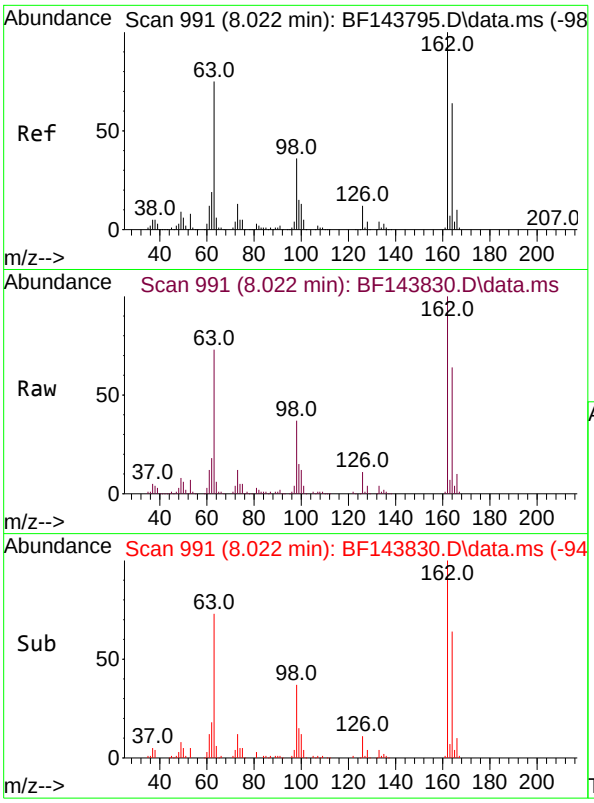


#28
bis(2-Chloroethoxy)methane
Concen: 39.528 ng
RT: 7.916 min Scan# 973
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion: 93 Resp: 390981

Ion	Ratio	Lower	Upper
93	100		
95	32.3	25.8	38.8
123	11.4	8.8	13.2



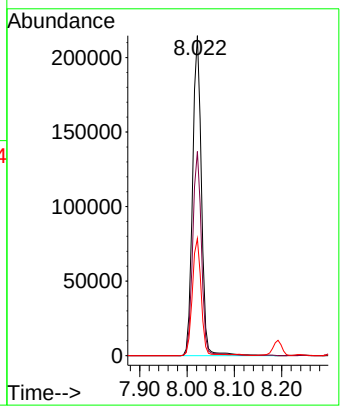


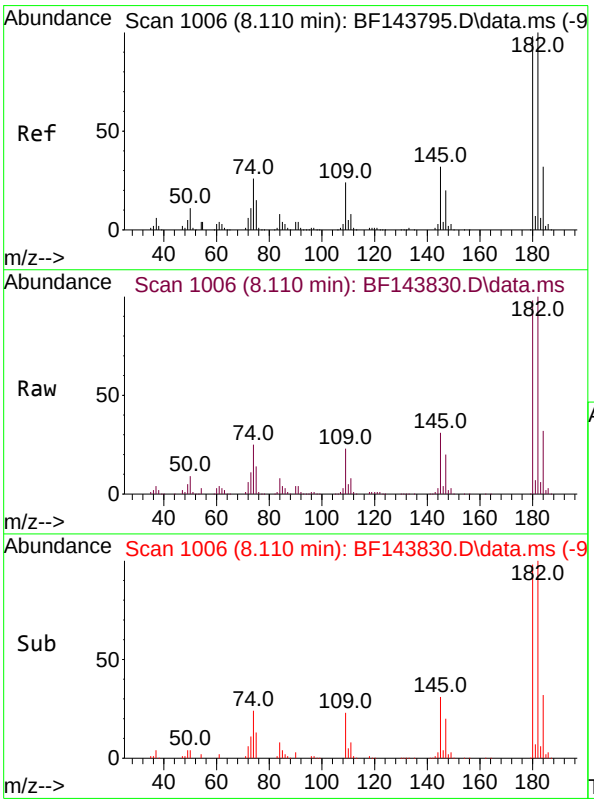
#29
2,4-Dichlorophenol
Concen: 41.484 ng
RT: 8.022 min Scan# 99
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 277758

Ion	Ratio	Lower	Upper
162	100		
164	63.8	44.1	84.1
98	36.6	15.8	55.8

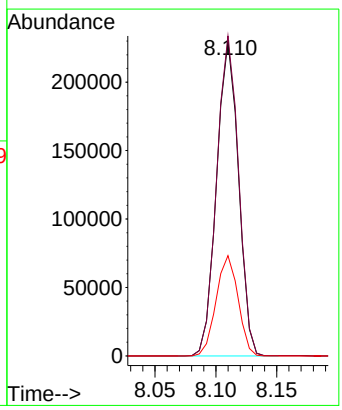


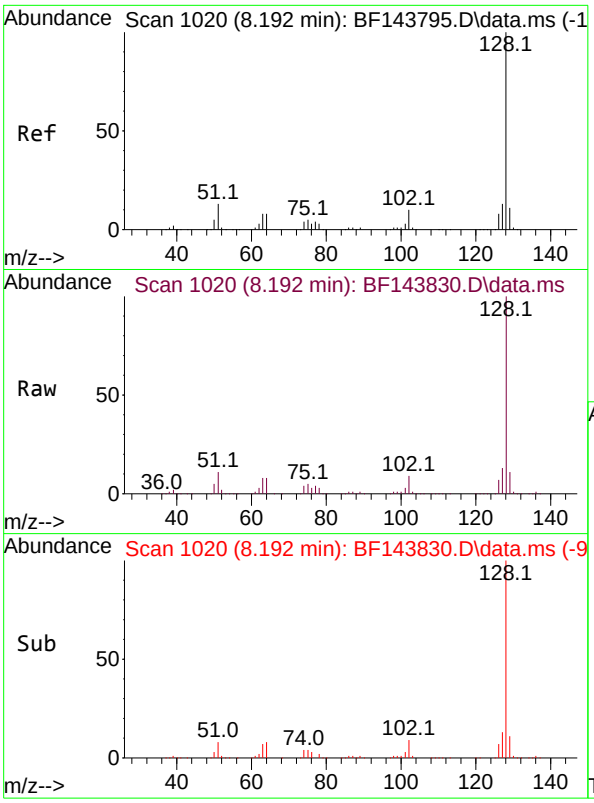


#30
1,2,4-Trichlorobenzene
Concen: 41.314 ng
RT: 8.110 min Scan# 1006
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:180 Resp: 287074

Ion	Ratio	Lower	Upper
180	100		
182	101.7	82.0	123.0
145	31.9	25.9	38.9



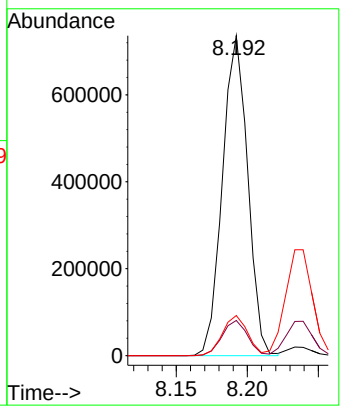


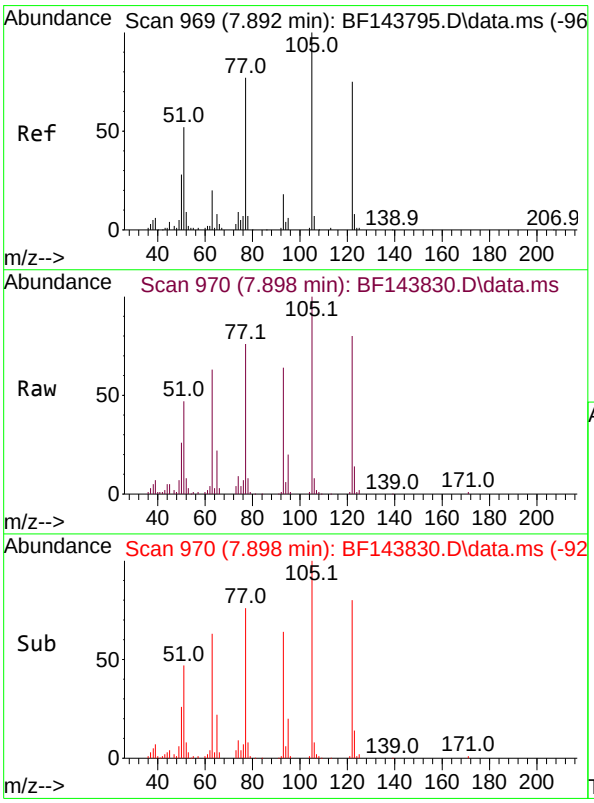
#31
Naphthalene
Concen: 39.693 ng
RT: 8.192 min Scan# 10
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:128 Resp: 908702

Ion	Ratio	Lower	Upper
128	100		
129	11.0	8.8	13.2
127	12.5	10.2	15.4

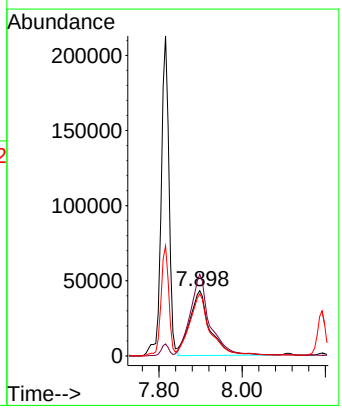


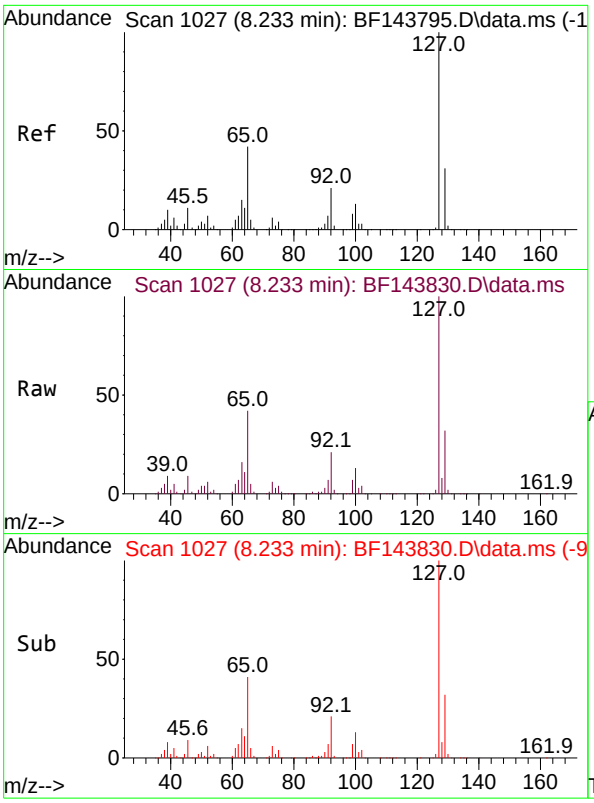


#32
Benzoic acid
Concen: 44.239 ng
RT: 7.898 min Scan# 970
Delta R.T. -0.024 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:122 Resp: 145243

Ion	Ratio	Lower	Upper
122	100		
105	125.1	103.7	143.7
77	95.2	78.8	118.8



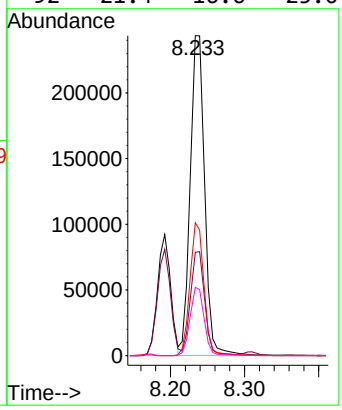


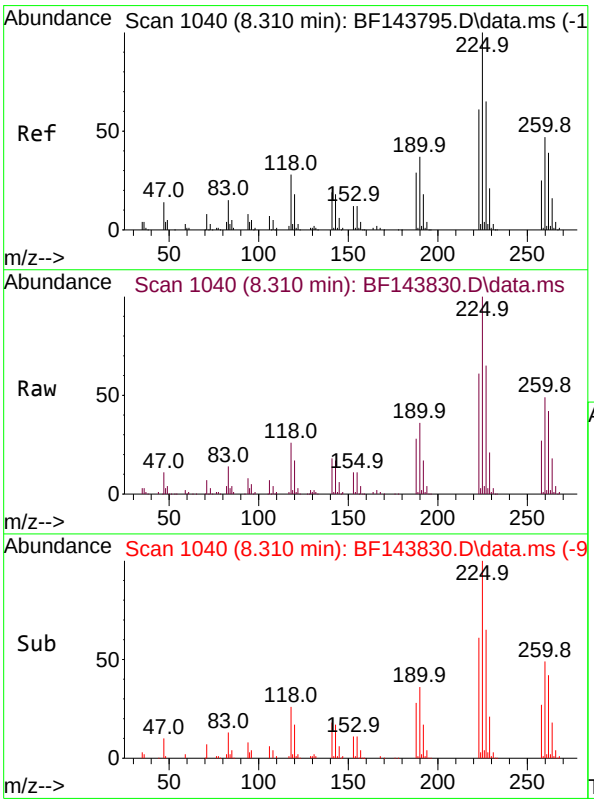
#33
4-Chloroaniline
Concen: 40.907 ng
RT: 8.233 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:127 Resp: 329097

Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.4	38.2
65	41.5	33.4	50.2
92	21.4	16.6	25.0

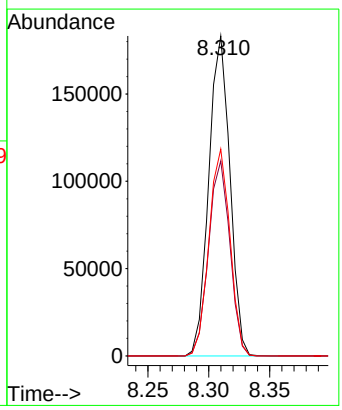


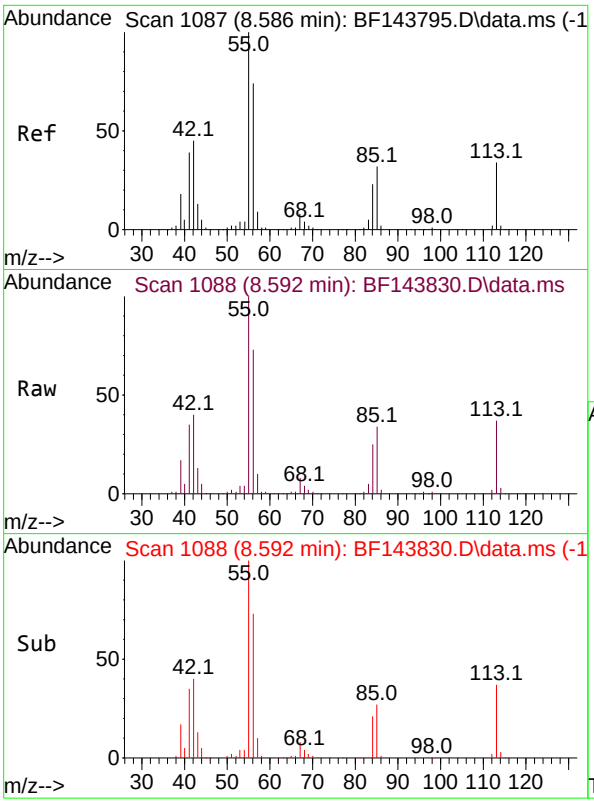


#34
Hexachlorobutadiene
Concen: 42.679 ng
RT: 8.310 min Scan# 1040
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:225 Resp: 221075

Ion	Ratio	Lower	Upper
225	100		
223	60.9	48.6	72.8
227	64.6	51.9	77.9



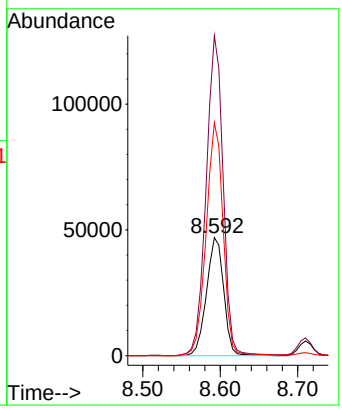


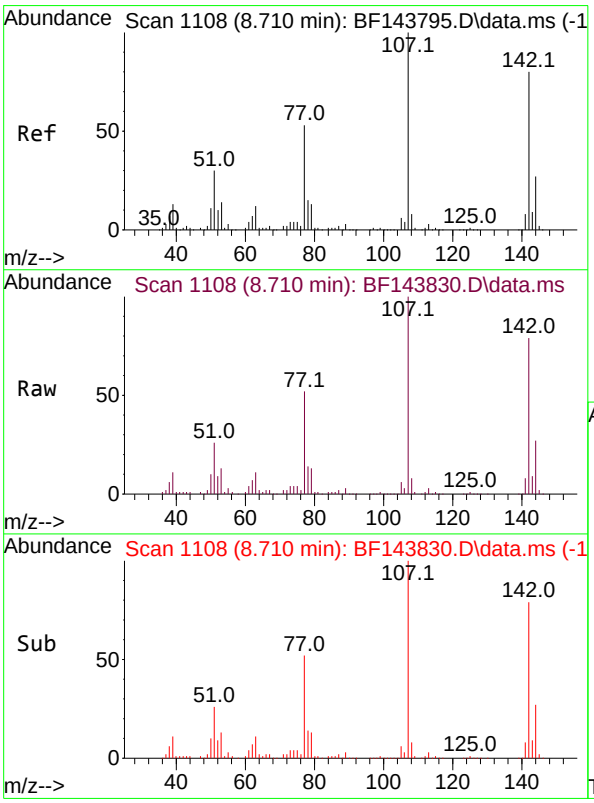
#35
Caprolactam
Concen: 42.236 ng
RT: 8.592 min Scan# 10
Delta R.T. -0.018 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:113 Resp: 72282

Ion	Ratio	Lower	Upper
113	100		
55	271.2	271.7	311.7#
56	197.3	194.5	234.5

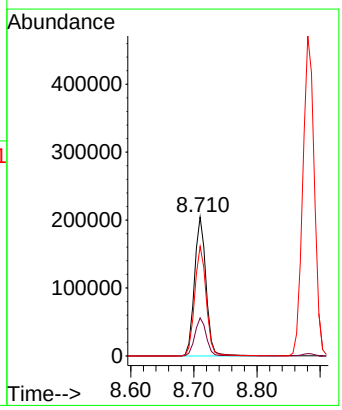


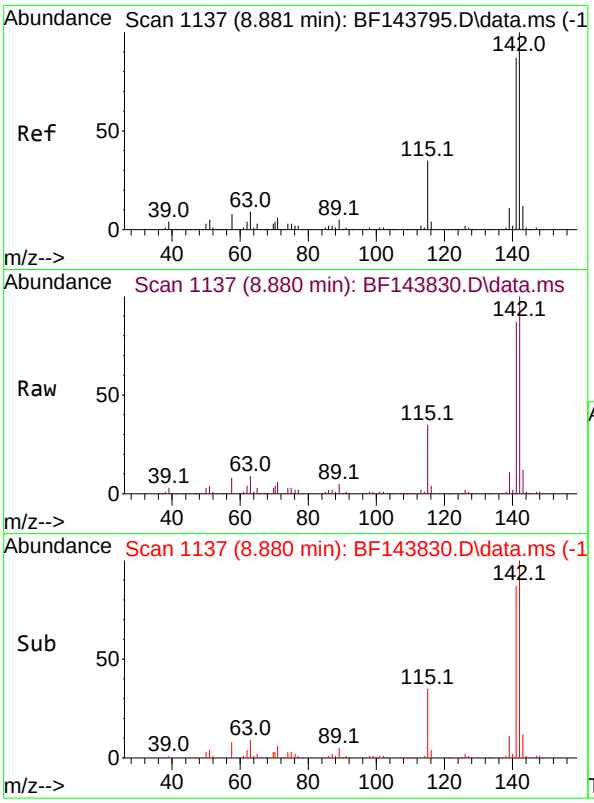


#36
4-Chloro-3-methylphenol
Concen: 41.518 ng
RT: 8.710 min Scan# 1108
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:107 Resp: 260718

Ion	Ratio	Lower	Upper
107	100		
144	27.3	21.8	32.8
142	78.8	63.6	95.4



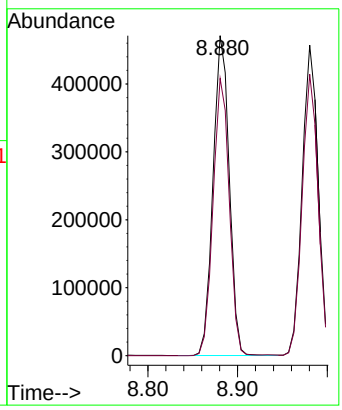


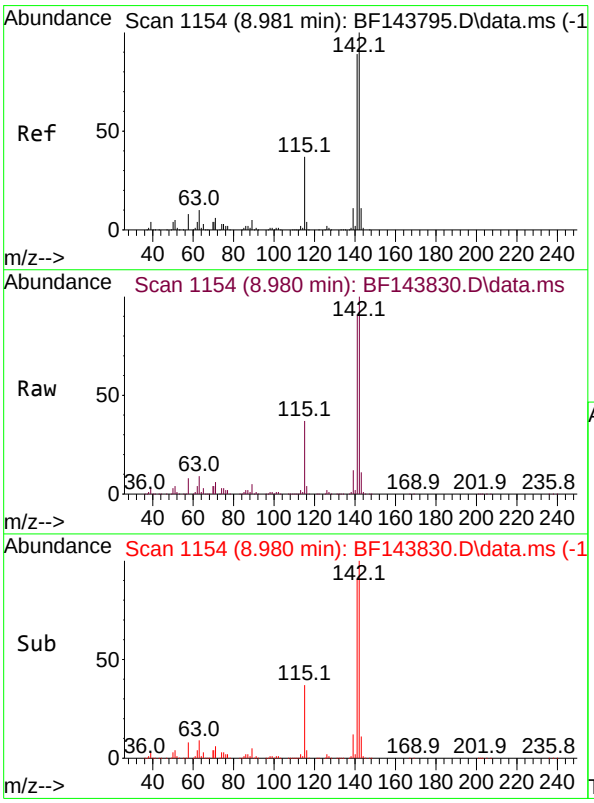
#37
2-Methylnaphthalene
Concen: 40.655 ng
RT: 8.880 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:142 Resp: 593475

Ion	Ratio	Lower	Upper
142	100		
141	86.6	69.4	104.0

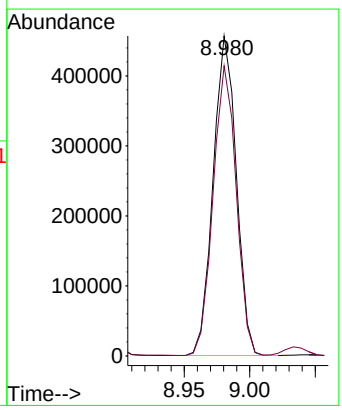


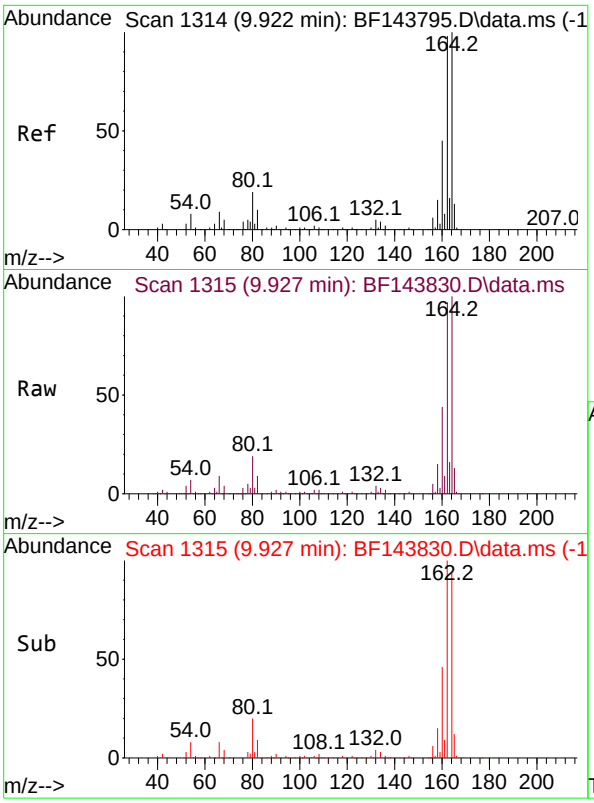


#38
1-Methylnaphthalene
Concen: 40.193 ng
RT: 8.980 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:142 Resp: 561593

Ion	Ratio	Lower	Upper
142	100		
141	90.6	71.1	106.7



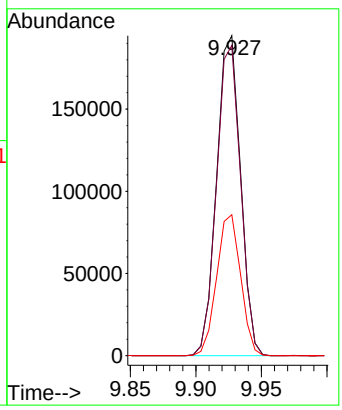


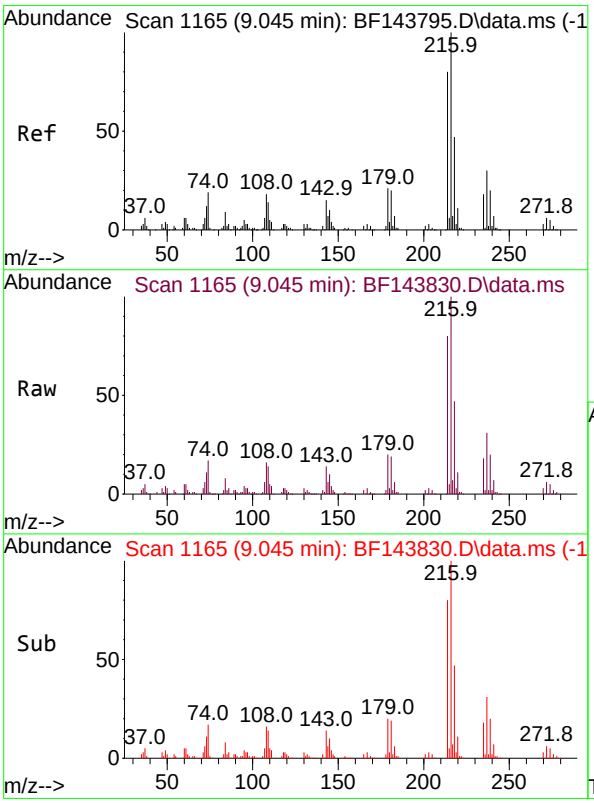
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1
Delta R.T. -0.001 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:164 Resp: 247405

Ion	Ratio	Lower	Upper
164	100		
162	96.9	78.8	118.2
160	44.0	35.8	53.6

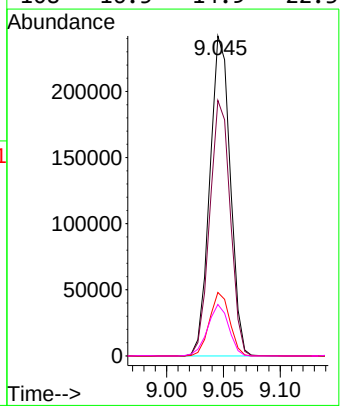


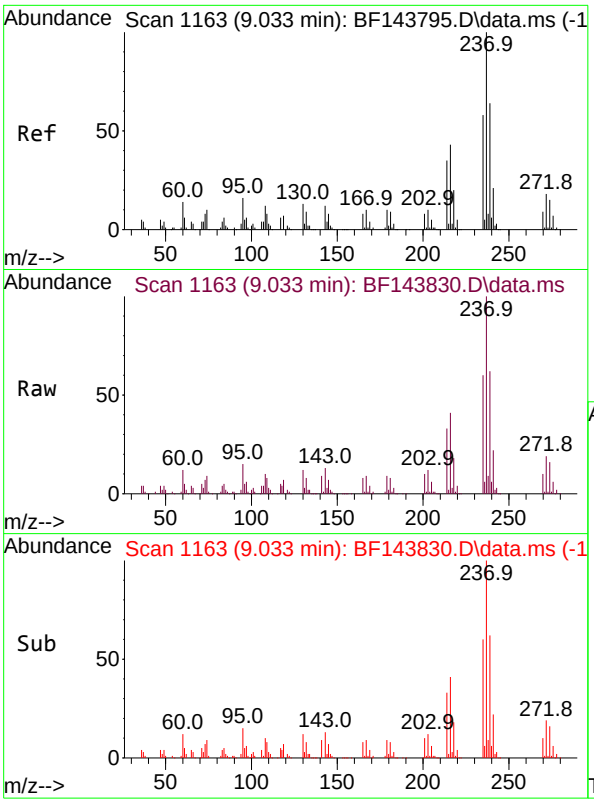


#40
1,2,4,5-Tetrachlorobenzene
Concen: 40.556 ng
RT: 9.045 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:216 Resp: 302803

Ion	Ratio	Lower	Upper
216	100		
214	79.9	63.7	95.5
179	19.5	16.5	24.7
108	16.5	14.9	22.3



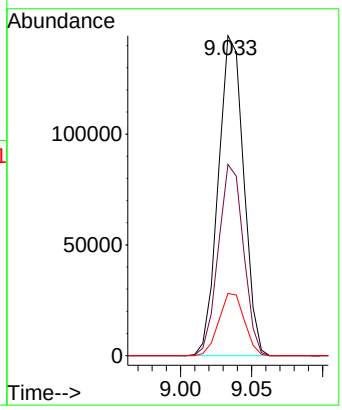


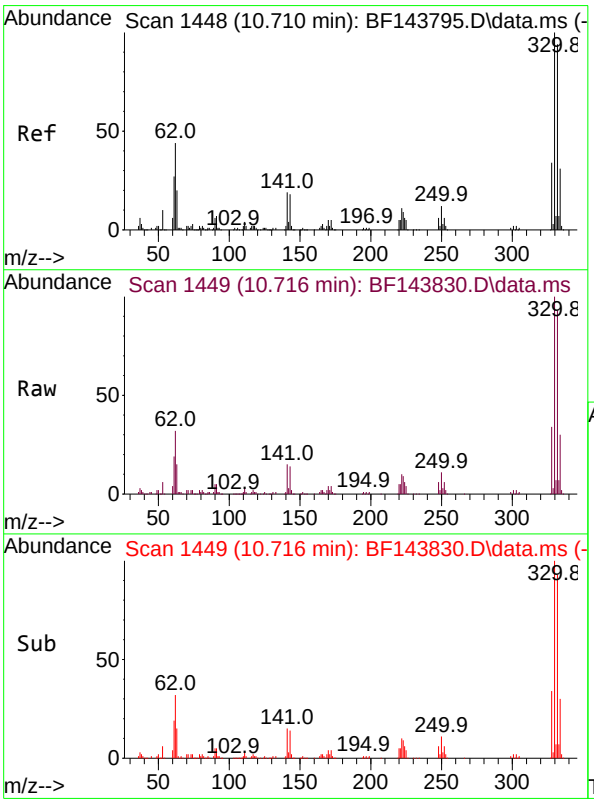
#41
Hexachlorocyclopentadiene
Concen: 37.932 ng
RT: 9.033 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:237 Resp: 179490

Ion	Ratio	Lower	Upper
237	100		
235	59.7	38.1	78.1
272	19.4	0.0	37.9

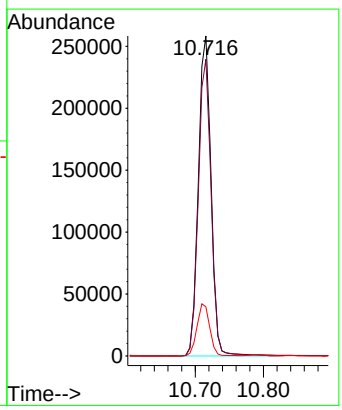


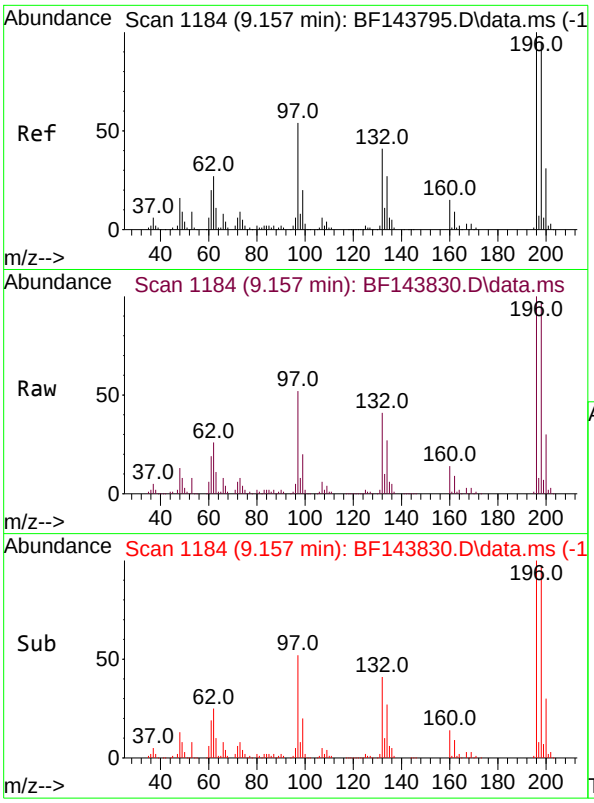


#42
2,4,6-Tribromophenol
Concen: 91.472 ng
RT: 10.716 min Scan# 1449
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:330 Resp: 335084

Ion	Ratio	Lower	Upper
330	100		
332	93.5	74.7	112.1
141	16.3	14.3	21.5



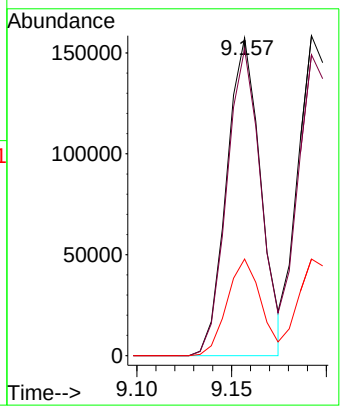


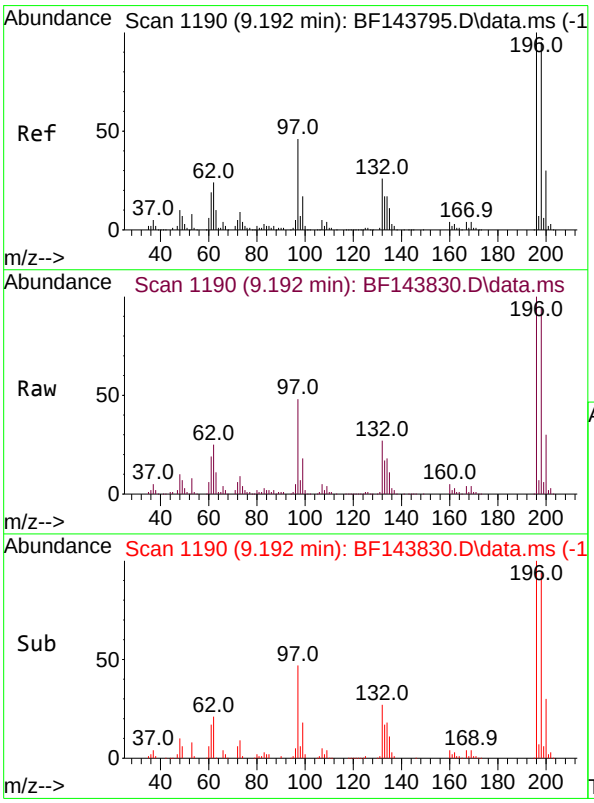
#43
2,4,6-Trichlorophenol
Concen: 42.077 ng
RT: 9.157 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:196 Resp: 196715

Ion	Ratio	Lower	Upper
196	100		
198	96.5	76.2	114.2
200	30.4	24.7	37.1

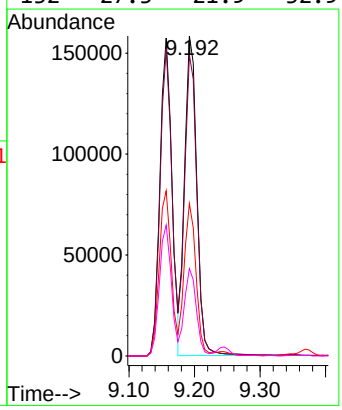


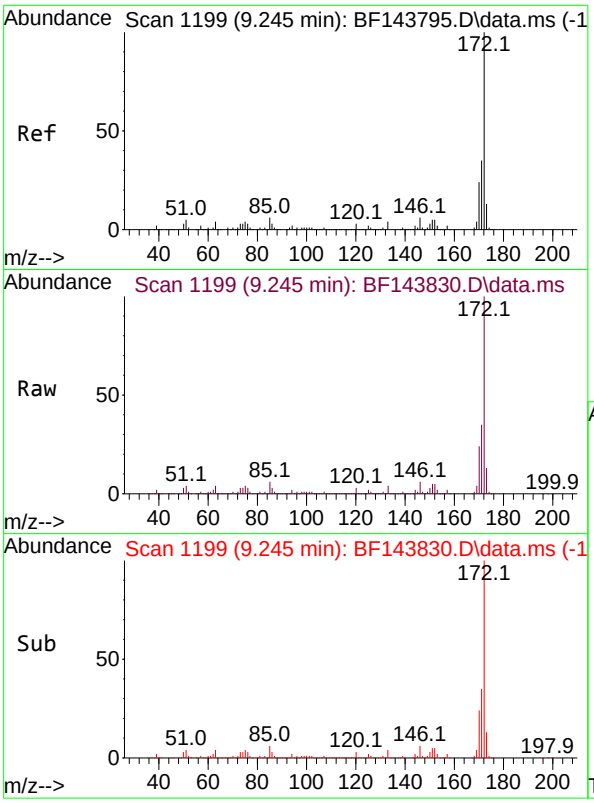


#44
2,4,5-Trichlorophenol
Concen: 42.277 ng
RT: 9.192 min Scan# 1190
Delta R.T. 0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:196 Resp: 206739

Ion	Ratio	Lower	Upper
196	100		
198	94.0	75.9	113.9
97	47.6	38.3	57.5
132	27.3	21.9	32.9



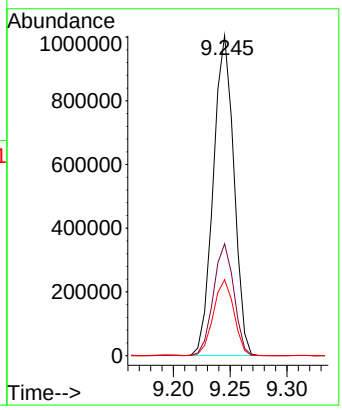


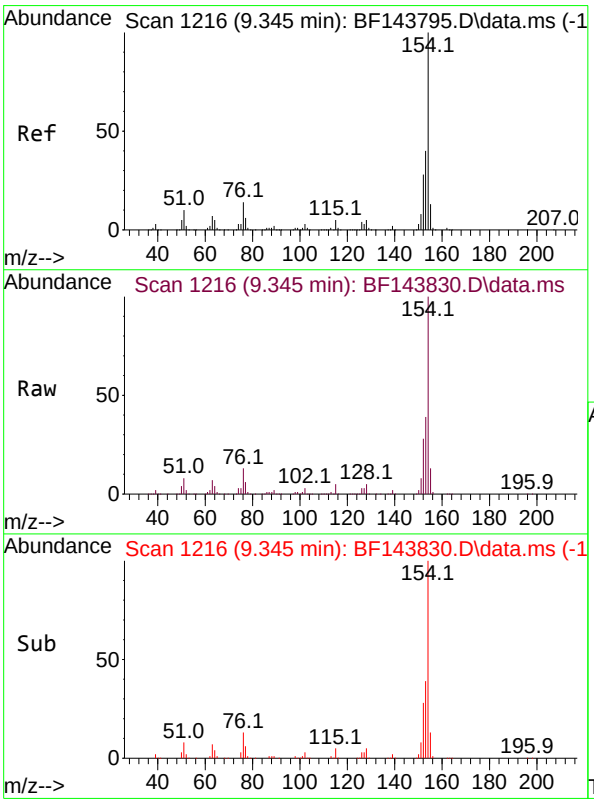
#45
2-Fluorobiphenyl
Concen: 79.825 ng
RT: 9.245 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:172 Resp: 1265568

Ion	Ratio	Lower	Upper
172	100		
171	34.9	27.9	41.9
170	23.7	19.1	28.7

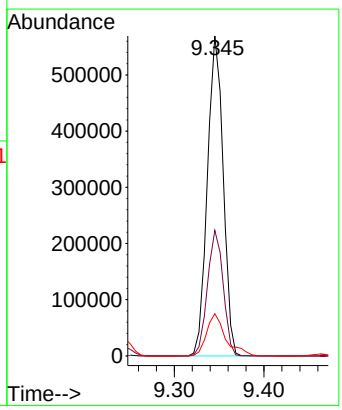


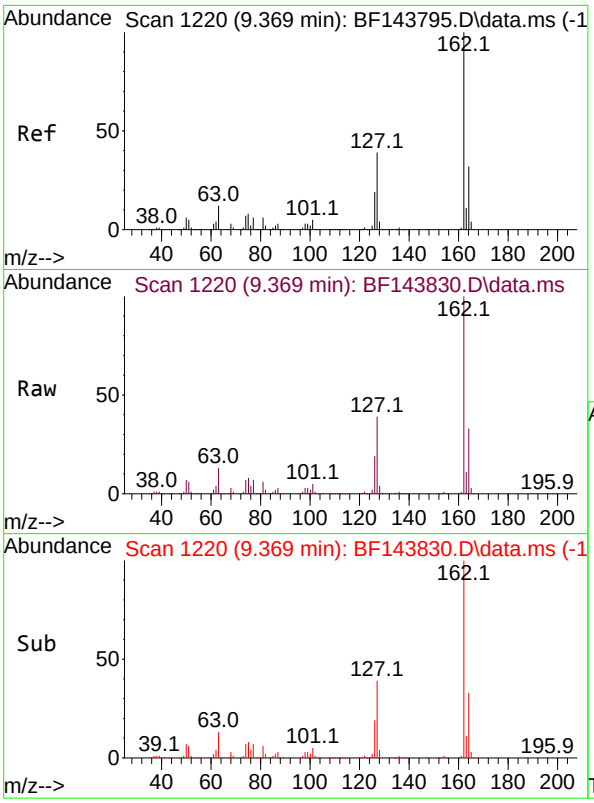


#46
1,1'-Biphenyl
Concen: 38.851 ng
RT: 9.345 min Scan# 1216
Delta R.T. 0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:154 Resp: 695781

Ion	Ratio	Lower	Upper
154	100		
153	39.2	19.7	59.7
76	13.2	0.0	33.8



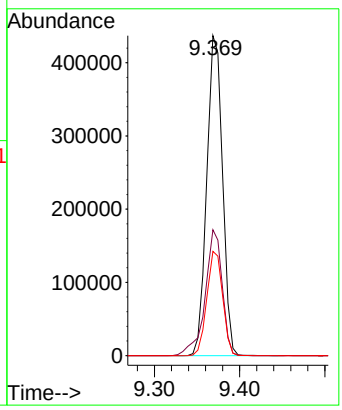


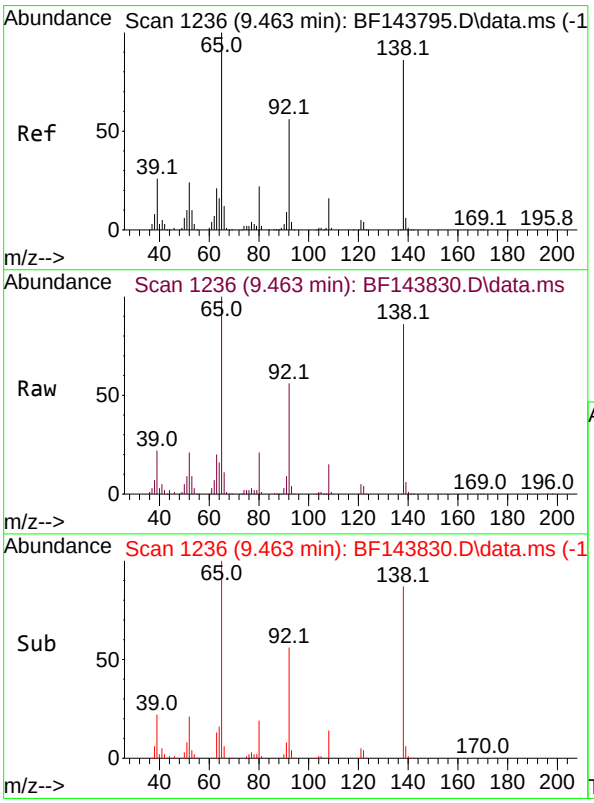
#47
2-Chloronaphthalene
Concen: 38.910 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:162 Resp: 560923

Ion	Ratio	Lower	Upper
162	100		
127	39.3	31.5	47.3
164	32.6	25.9	38.9

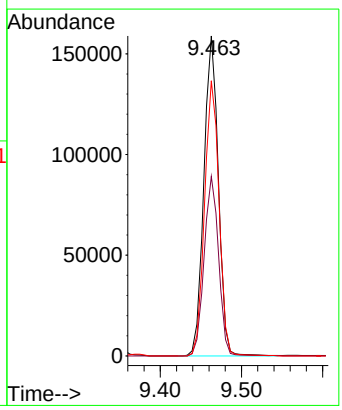


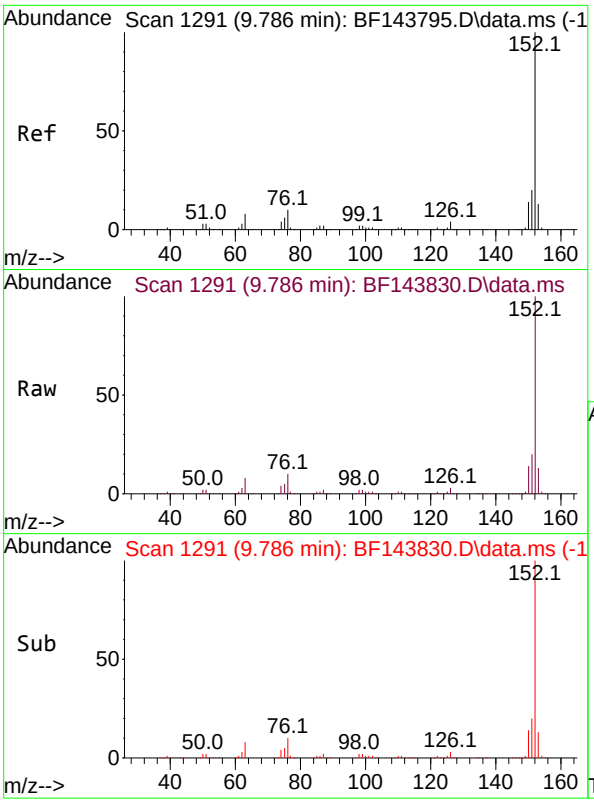


#48
2-Nitroaniline
Concen: 45.256 ng
RT: 9.463 min Scan# 1236
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion: 65 Resp: 197179

Ion	Ratio	Lower	Upper
65	100		
92	56.1	44.9	67.3
138	86.0	69.0	103.4



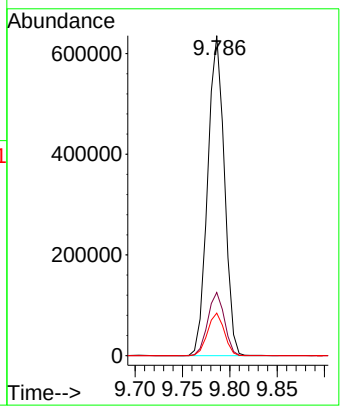


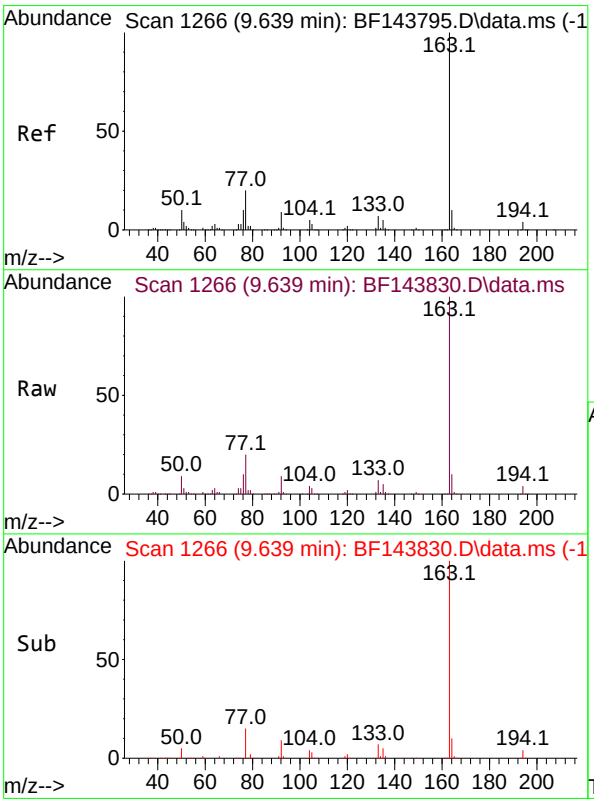
#49
Acenaphthylene
Concen: 39.347 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 780870

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.7	23.5
153	13.3	10.6	15.8

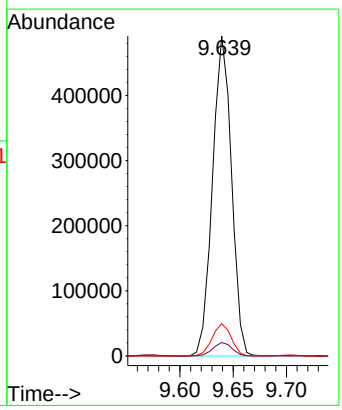


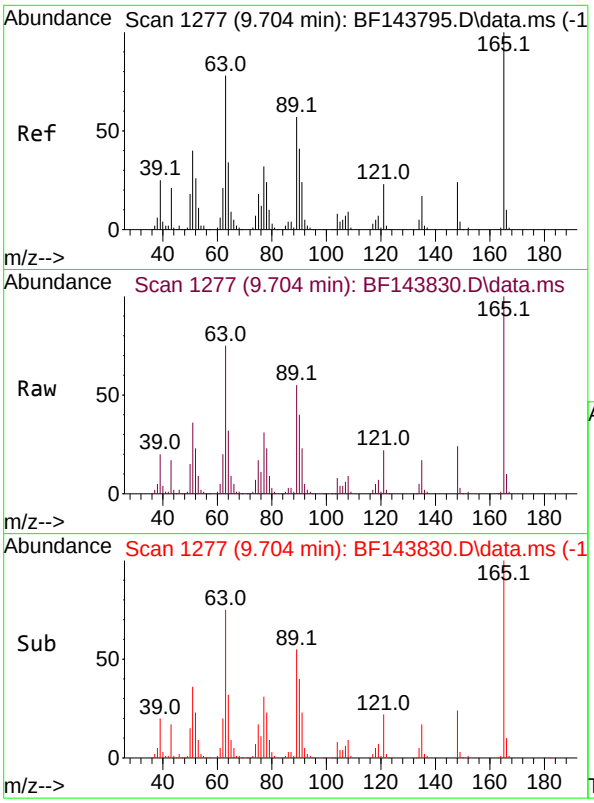


#50
Dimethylphthalate
Concen: 40.421 ng
RT: 9.639 min Scan# 1266
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:163 Resp: 609515

Ion	Ratio	Lower	Upper
163	100		
194	4.2	3.0	4.6
164	10.1	8.2	12.2



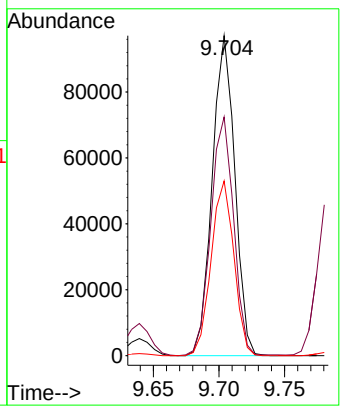


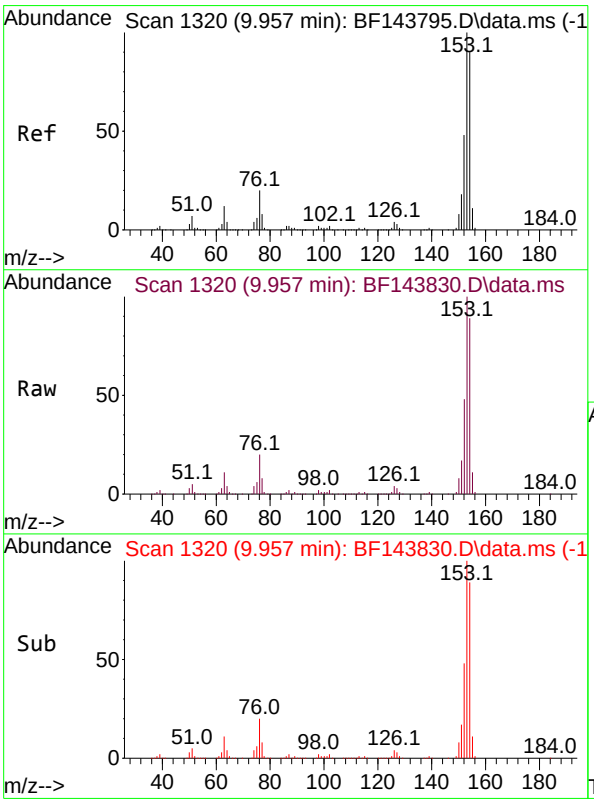
#51
2,6-Dinitrotoluene
Concen: 46.981 ng
RT: 9.704 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 116398

Ion	Ratio	Lower	Upper
165	100		
63	74.6	62.6	94.0
89	54.6	45.2	67.8

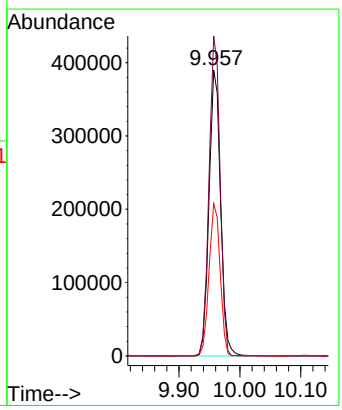


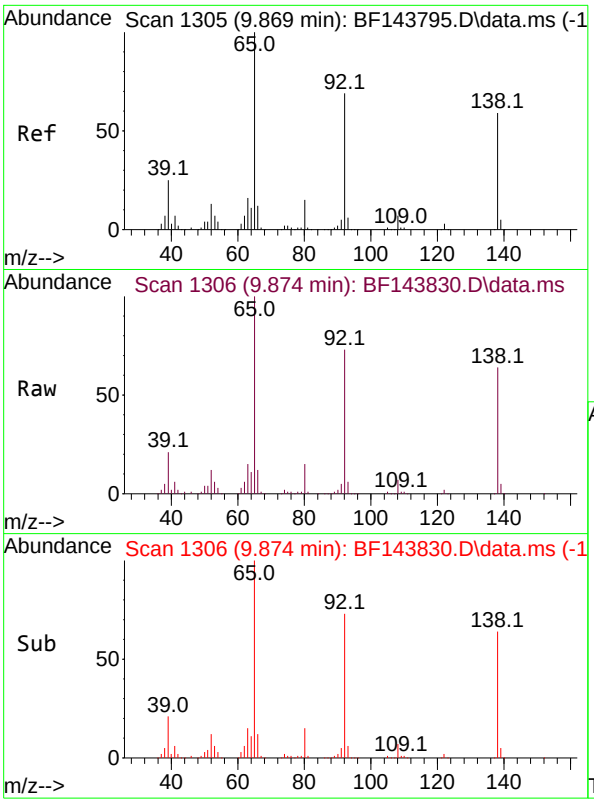


#52
Acenaphthene
Concen: 39.295 ng
RT: 9.957 min Scan# 1320
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:154 Resp: 513183

Ion	Ratio	Lower	Upper
154	100		
153	111.9	88.7	133.1
152	53.3	42.7	64.1



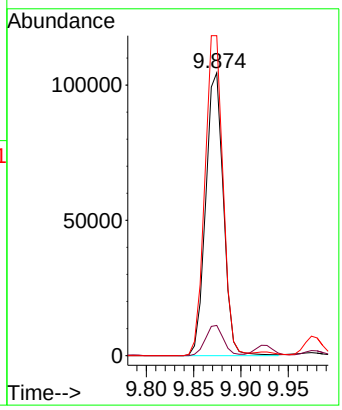


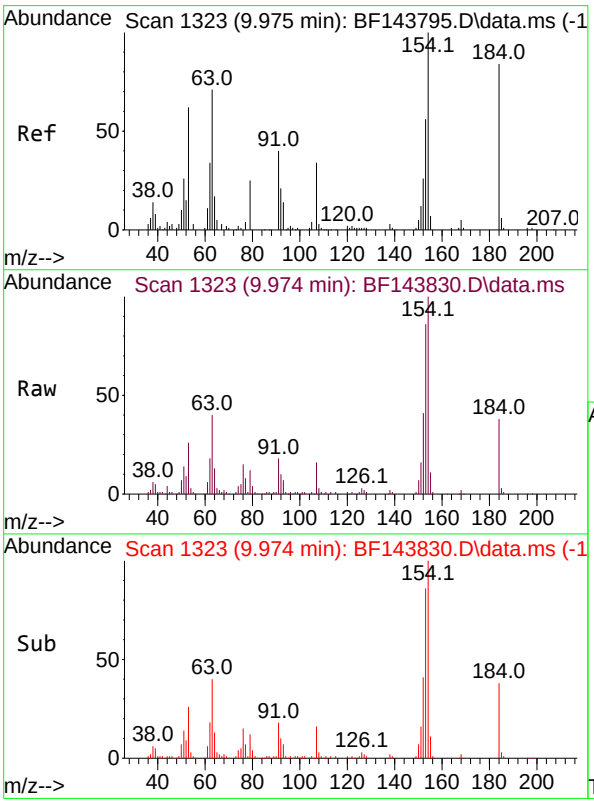
#53
3-Nitroaniline
Concen: 45.322 ng
RT: 9.874 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:138 Resp: 136105

Ion	Ratio	Lower	Upper
138	100		
108	10.7	9.9	14.9
92	113.2	93.5	140.3

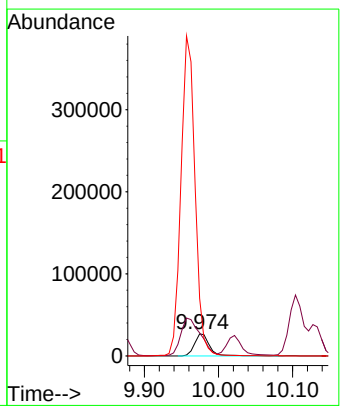


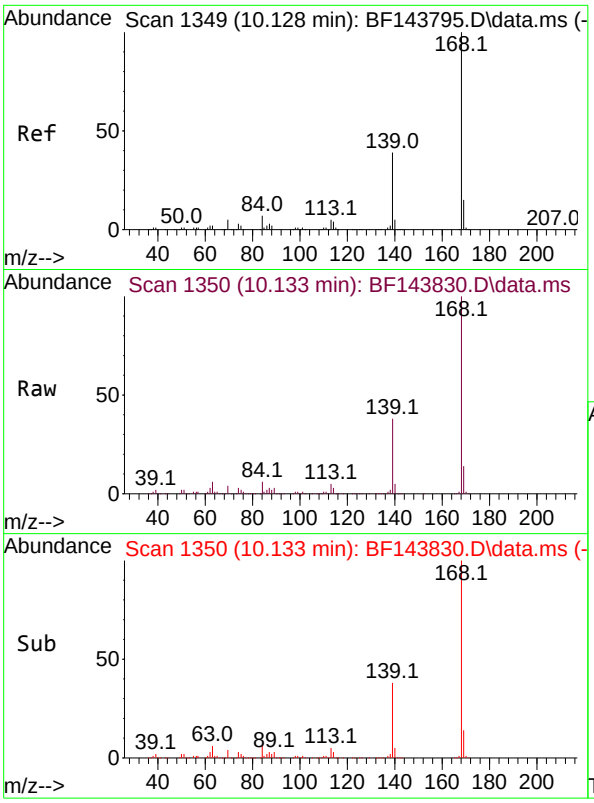


#54
2,4-Dinitrophenol
Concen: 46.822 ng
RT: 9.974 min Scan# 1323
Delta R.T. -0.001 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:184 Resp: 37418

Ion	Ratio	Lower	Upper
184	100		
63	104.1	84.6	127.0
154	261.2	199.3	298.9



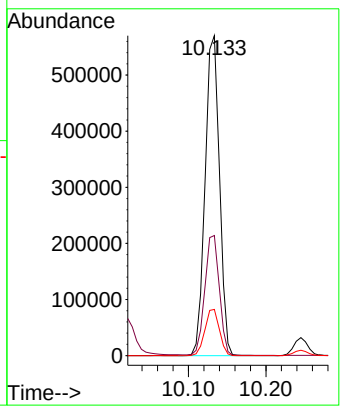


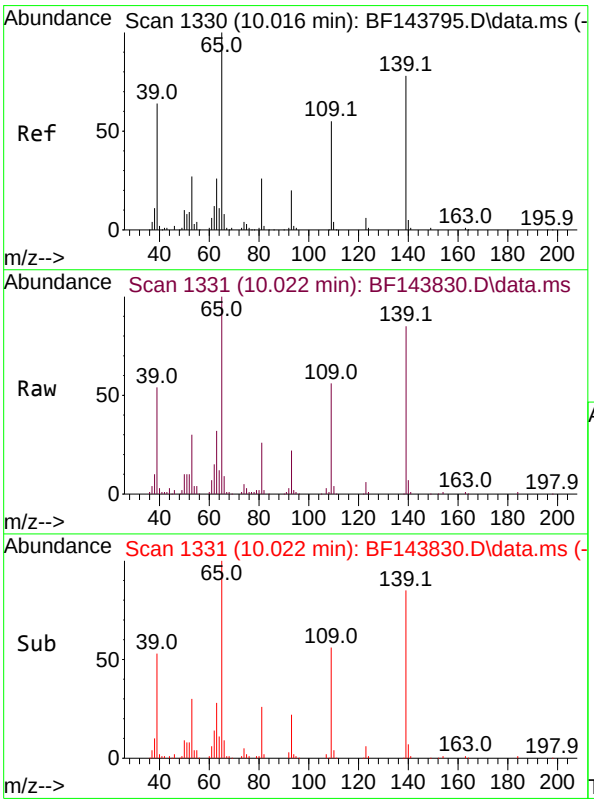
#55
Dibenzofuran
Concen: 39.772 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:168 Resp: 734489

Ion	Ratio	Lower	Upper
168	100		
139	37.5	31.0	46.6
169	14.4	11.9	17.9

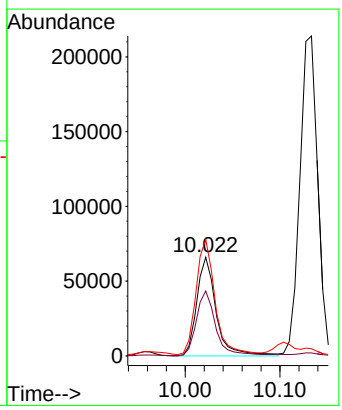


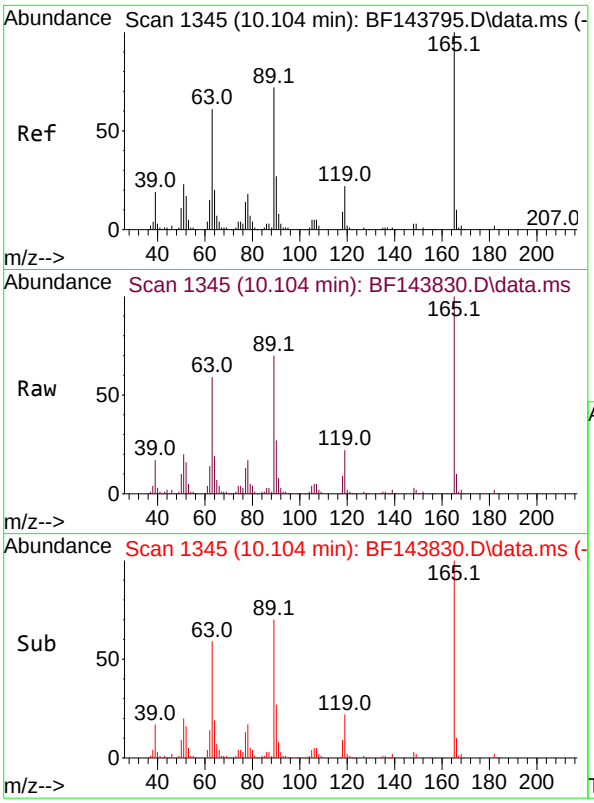


#56
4-Nitrophenol
Concen: 38.721 ng
RT: 10.022 min Scan# 1331
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:139 Resp: 93704

Ion	Ratio	Lower	Upper
139	100		
109	65.7	50.2	90.2
65	118.2	109.2	149.2



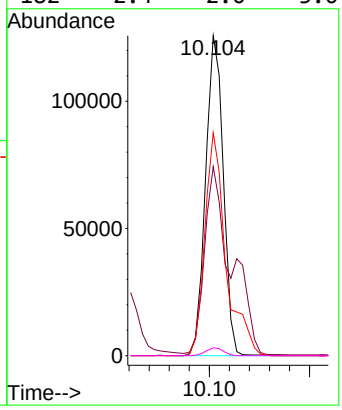


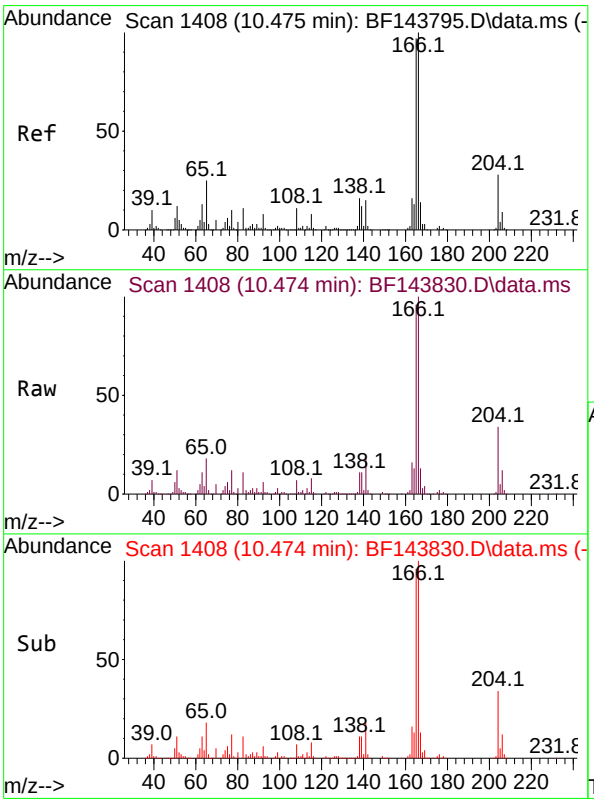
#57
2,4-Dinitrotoluene
Concen: 42.182 ng
RT: 10.104 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 153735

Ion	Ratio	Lower	Upper
165	100		
63	59.0	48.9	73.3
89	69.6	57.5	86.3
182	2.4	2.0	3.0

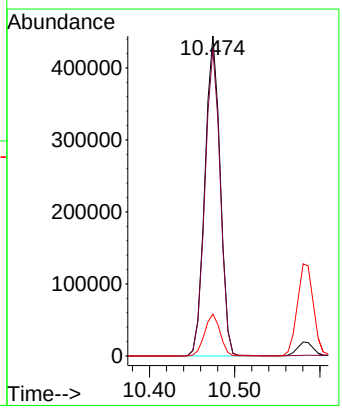


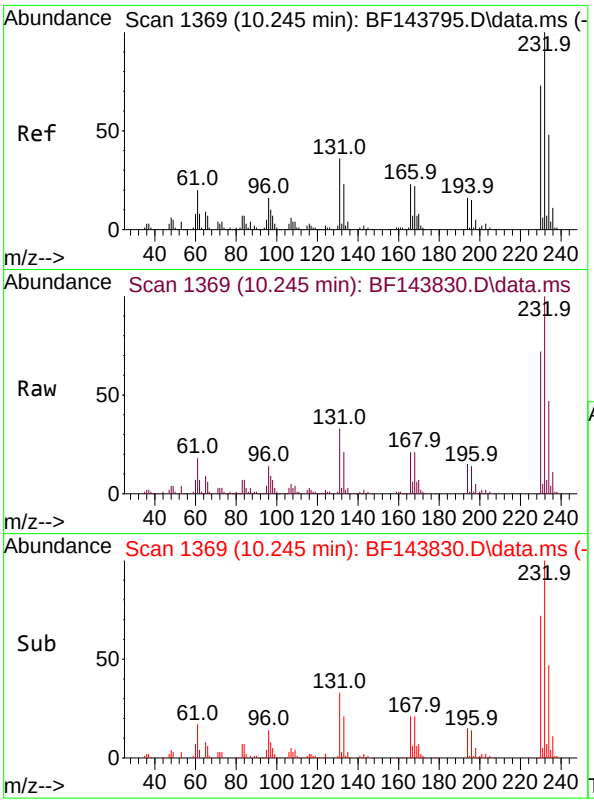


#58
Fluorene
Concen: 40.223 ng
RT: 10.474 min Scan# 1408
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:166 Resp: 552230

Ion	Ratio	Lower	Upper
166	100		
165	95.9	78.0	117.0
167	13.0	10.9	16.3



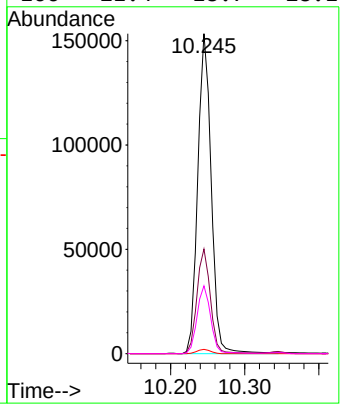


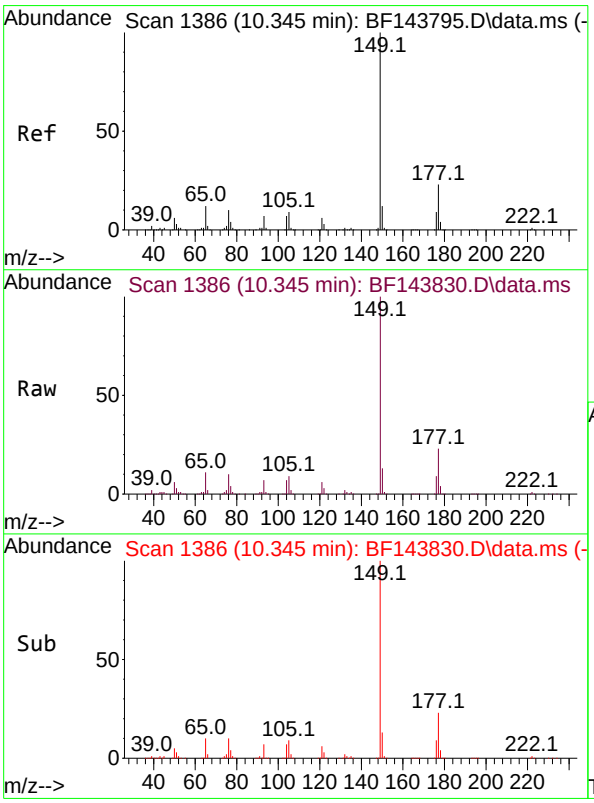
#59
2,3,4,6-Tetrachlorophenol
Concen: 46.219 ng
RT: 10.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 193618

Ion	Ratio	Lower	Upper
232	100		
131	32.8	29.4	44.2
130	1.3	1.3	1.9
166	21.4	18.7	28.1

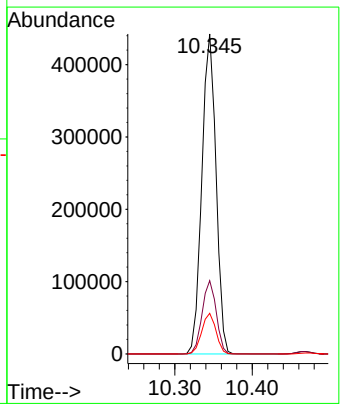


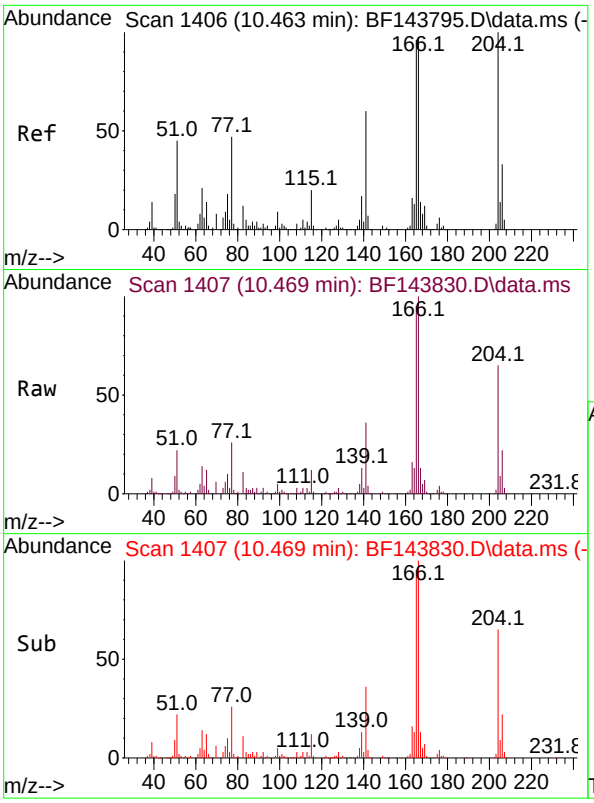


#60
Diethylphthalate
Concen: 39.714 ng
RT: 10.345 min Scan# 1386
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:149 Resp: 560595

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.1	27.1
150	12.7	9.7	14.5



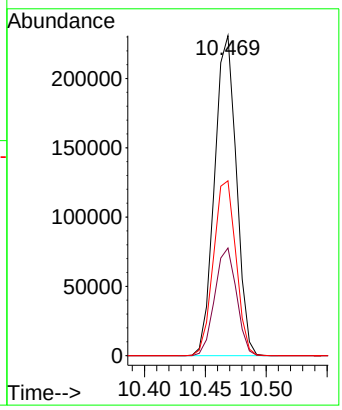


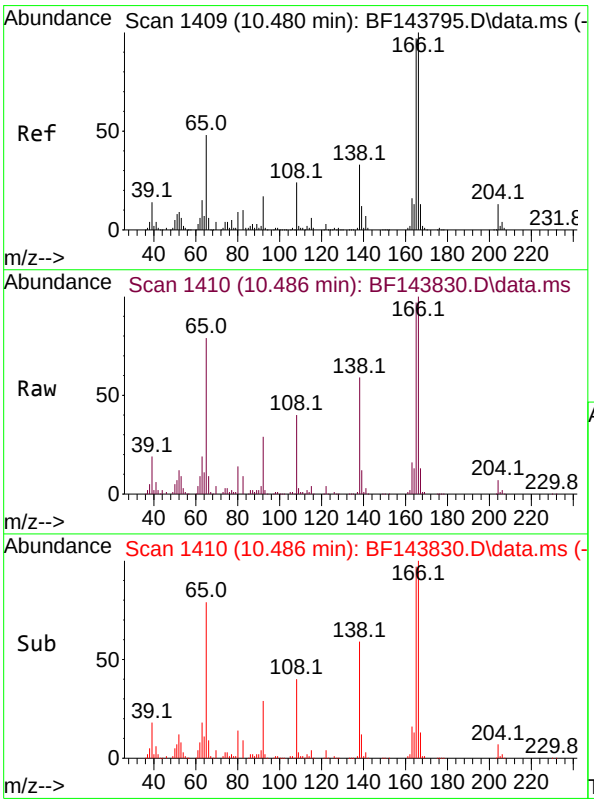
#61
4-Chlorophenyl-phenylether
Concen: 41.148 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:204 Resp: 287849

Ion	Ratio	Lower	Upper
204	100		
206	33.6	26.7	40.1
141	54.7	48.2	72.2

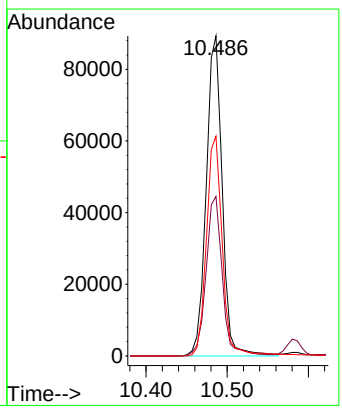


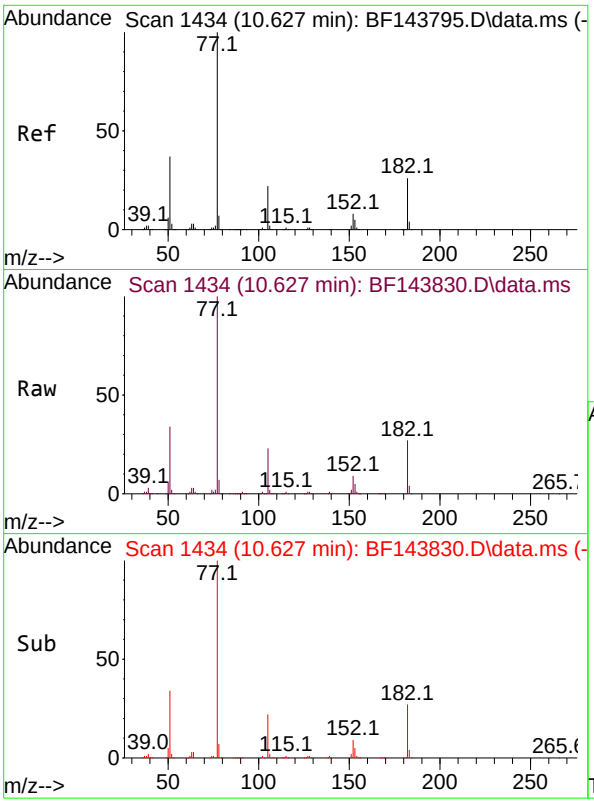


#62
4-Nitroaniline
Concen: 43.284 ng
RT: 10.486 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:138 Resp: 122222

Ion	Ratio	Lower	Upper
138	100		
92	49.8	31.5	71.5
108	68.6	51.9	91.9



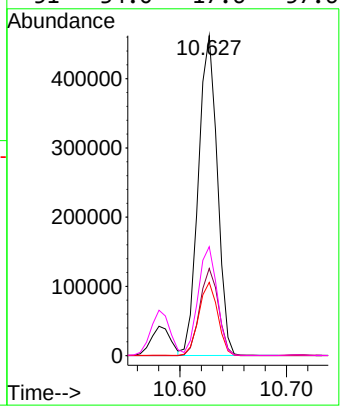


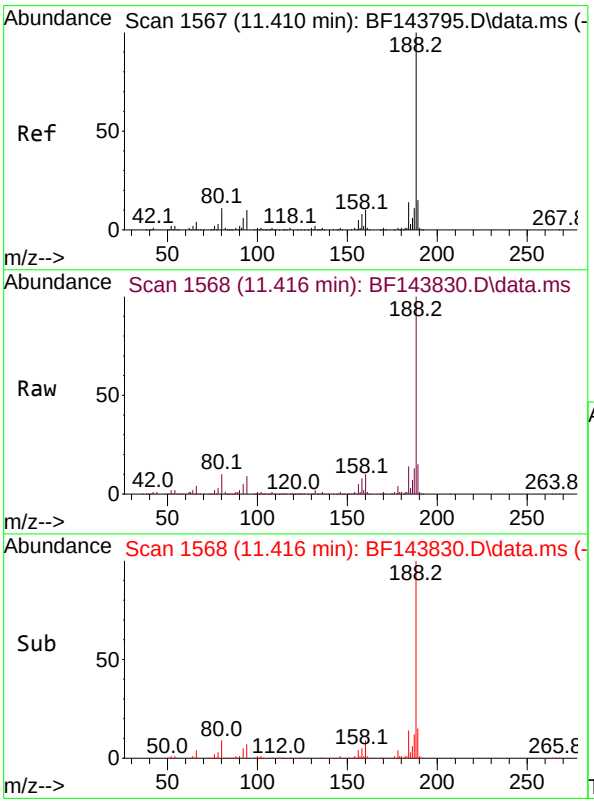
#63
Azobenzene
Concen: 38.301 ng
RT: 10.627 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 77 Resp: 569785

Ion	Ratio	Lower	Upper
77	100		
182	27.2	5.9	45.9
105	22.9	2.3	42.3
51	34.0	17.6	57.6

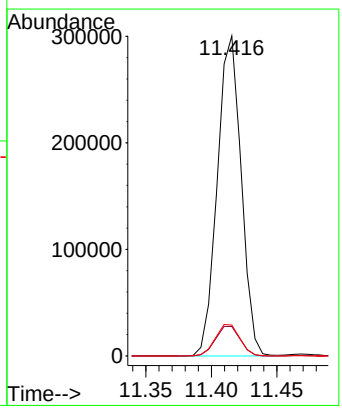


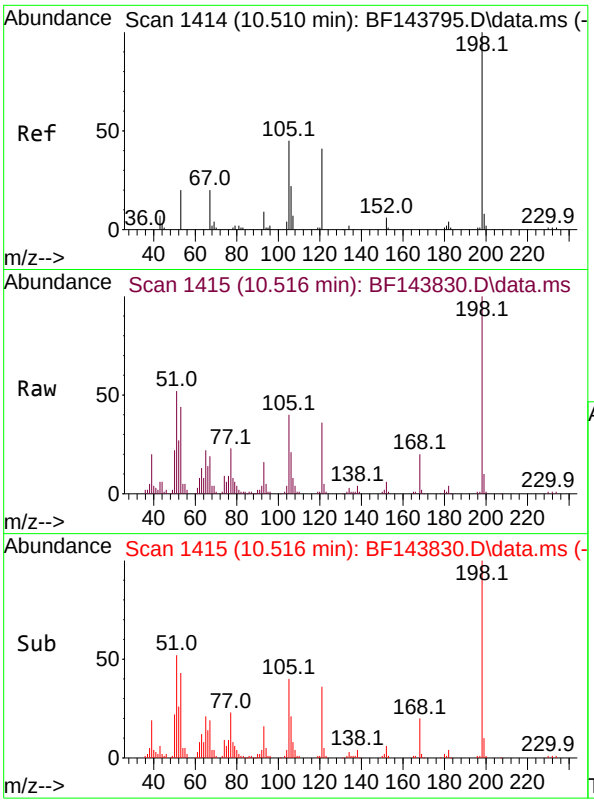


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:188 Resp: 381551

Ion	Ratio	Lower	Upper
188	100		
94	9.2	8.2	12.2
80	9.6	8.6	12.8



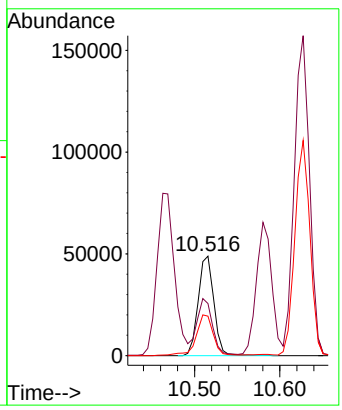


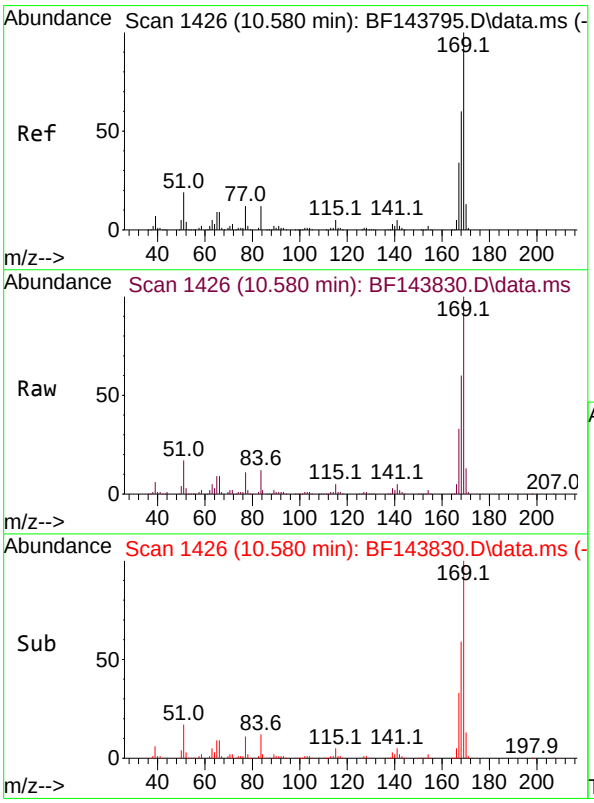
#65
4,6-Dinitro-2-methylphenol
Concen: 45.442 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 62374

Ion	Ratio	Lower	Upper
198	100		
51	52.4	52.0	92.0
105	39.7	27.5	67.5

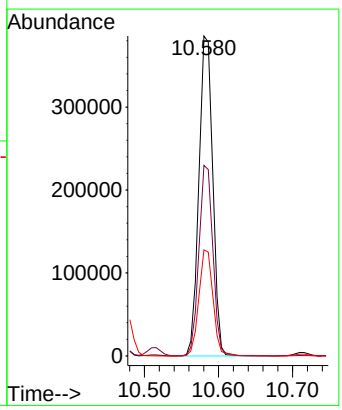


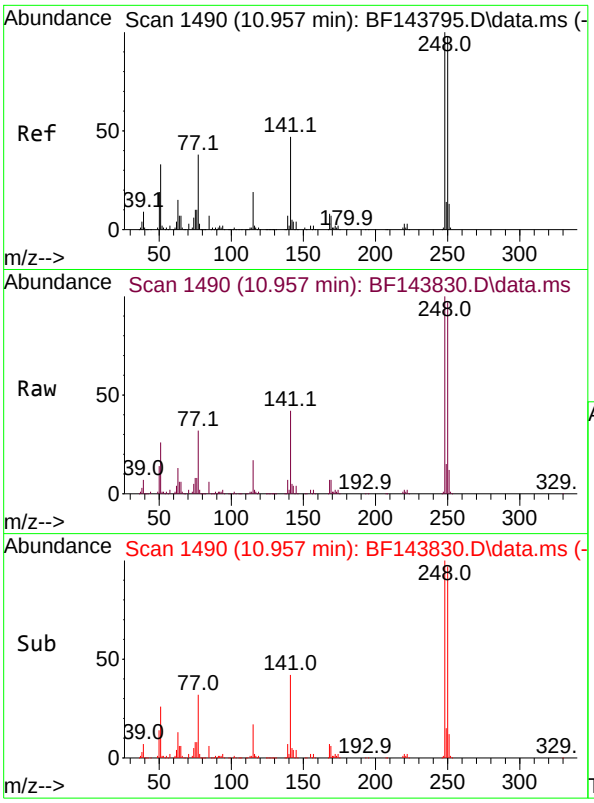


#66
n-Nitrosodiphenylamine
Concen: 39.953 ng
RT: 10.580 min Scan# 1426
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:169 Resp: 501336

Ion	Ratio	Lower	Upper
169	100		
168	59.5	47.9	71.9
167	33.1	27.0	40.6



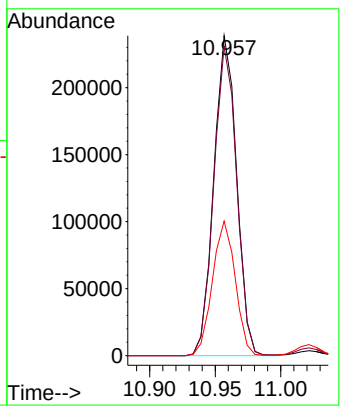


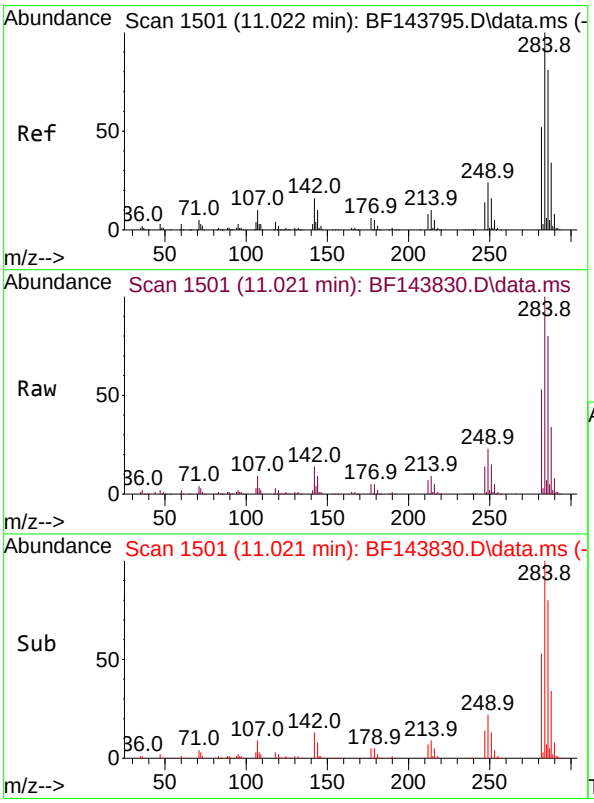
#67
4-Bromophenyl-phenylether
Concen: 44.543 ng
RT: 10.957 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:248 Resp: 289629

Ion	Ratio	Lower	Upper
248	100		
250	96.7	78.7	118.1
141	42.0	37.9	56.9

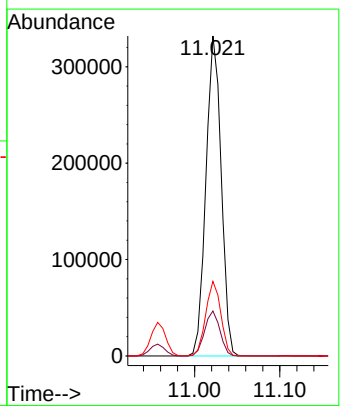


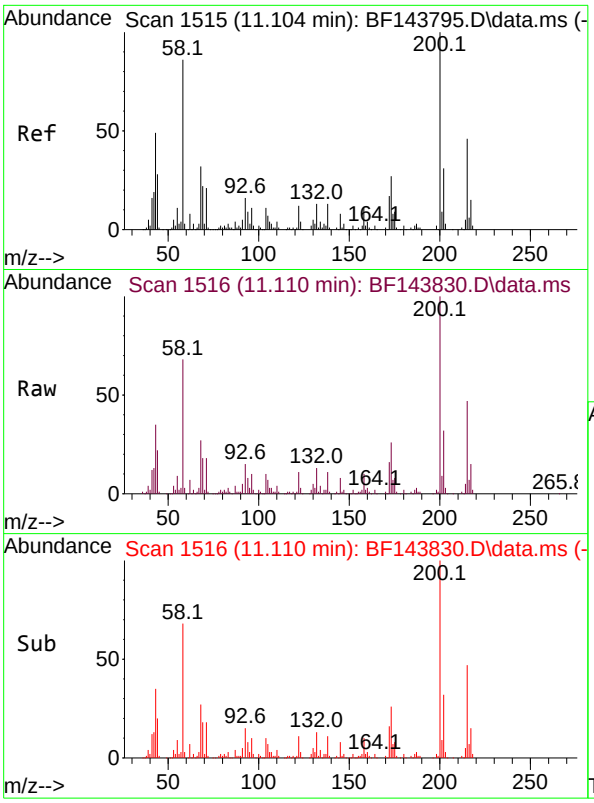


#68
Hexachlorobenzene
Concen: 46.056 ng
RT: 11.021 min Scan# 1501
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:284 Resp: 412701

Ion	Ratio	Lower	Upper
284	100		
142	14.0	13.1	19.7
249	23.3	19.5	29.3



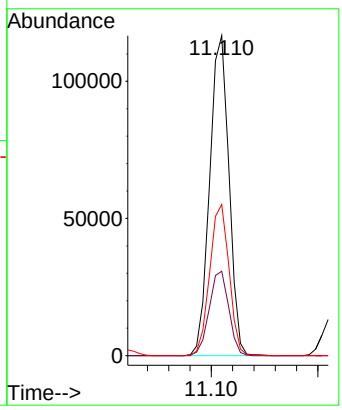


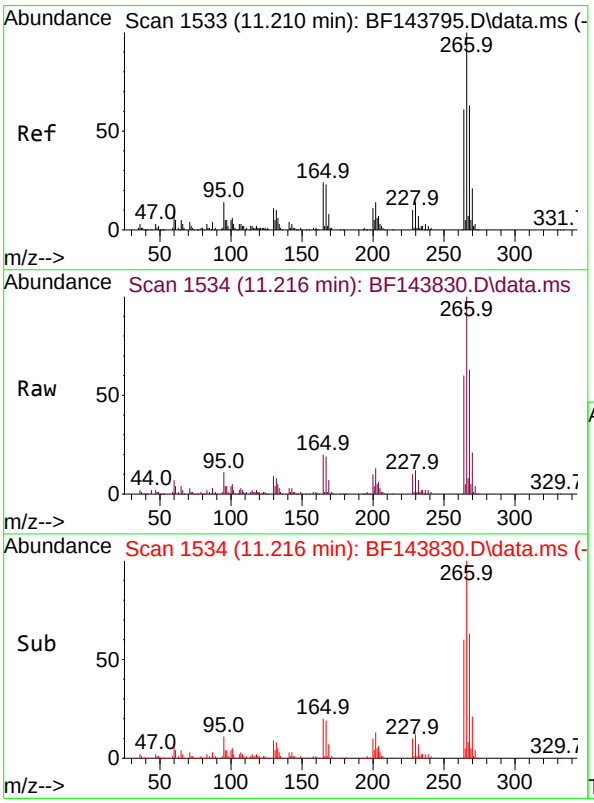
#69
Atrazine
Concen: 40.279 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:200 Resp: 146359

Ion	Ratio	Lower	Upper
200	100		
173	26.4	7.2	47.2
215	47.2	26.0	66.0

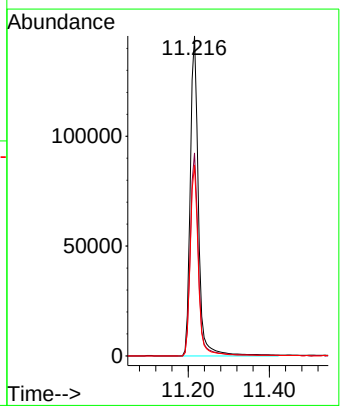


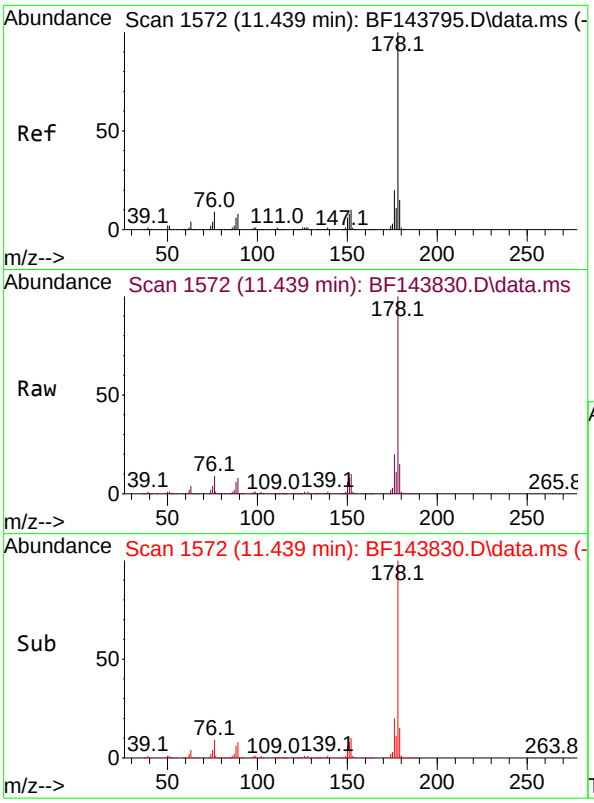


#70
Pentachlorophenol
Concen: 45.577 ng
RT: 11.216 min Scan# 1534
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:266 Resp: 203294

Ion	Ratio	Lower	Upper
266	100		
268	63.4	50.5	75.7
264	59.7	48.8	73.2



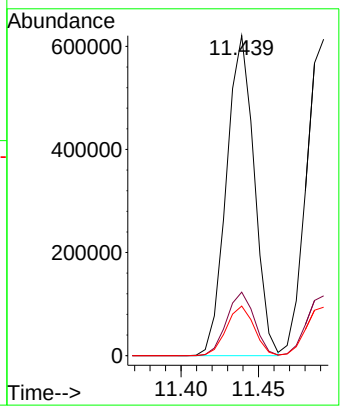


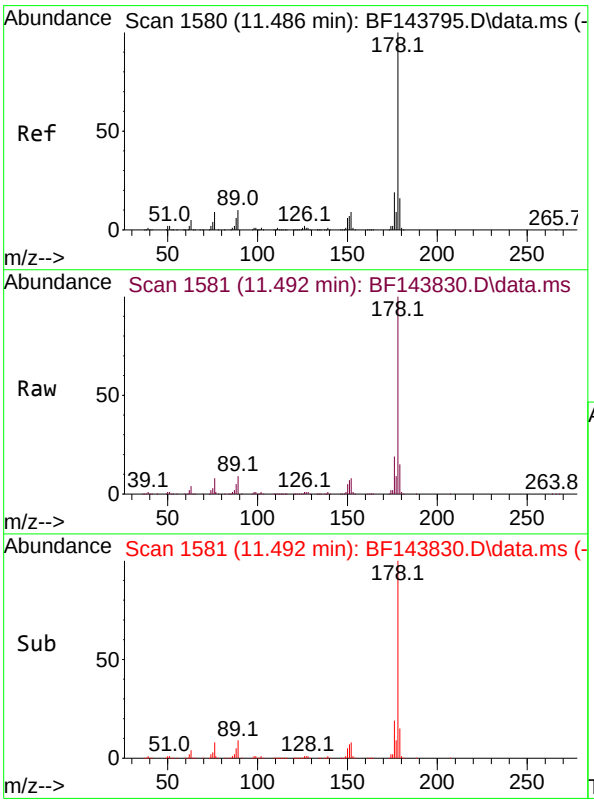
#71
Phenanthrene
Concen: 39.482 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 773409

Ion	Ratio	Lower	Upper
178	100		
176	19.8	15.6	23.4
179	15.5	12.2	18.4

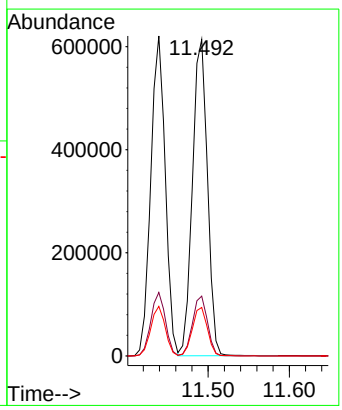


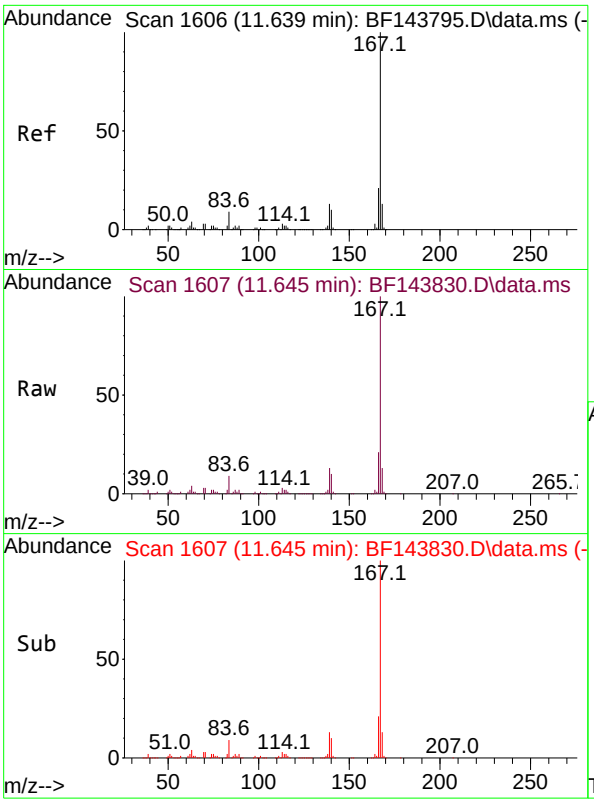


#72
Anthracene
Concen: 39.881 ng
RT: 11.492 min Scan# 1581
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:178 Resp: 783620

Ion	Ratio	Lower	Upper
178	100		
176	18.9	15.3	22.9
179	15.3	12.8	19.2



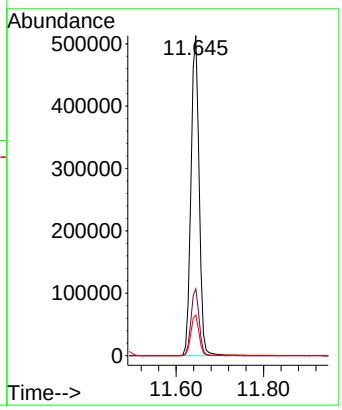


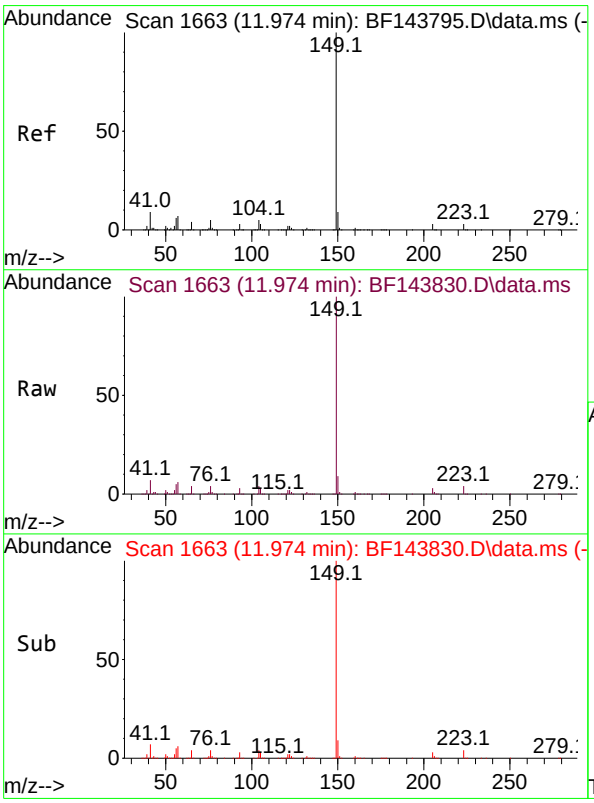
#73
Carbazole
Concen: 38.853 ng
RT: 11.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:167 Resp: 667475

Ion	Ratio	Lower	Upper
167	100		
166	20.8	17.0	25.4
139	12.7	10.6	15.8

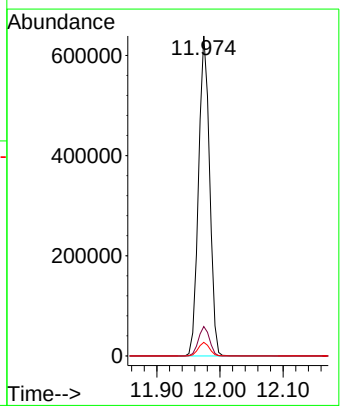


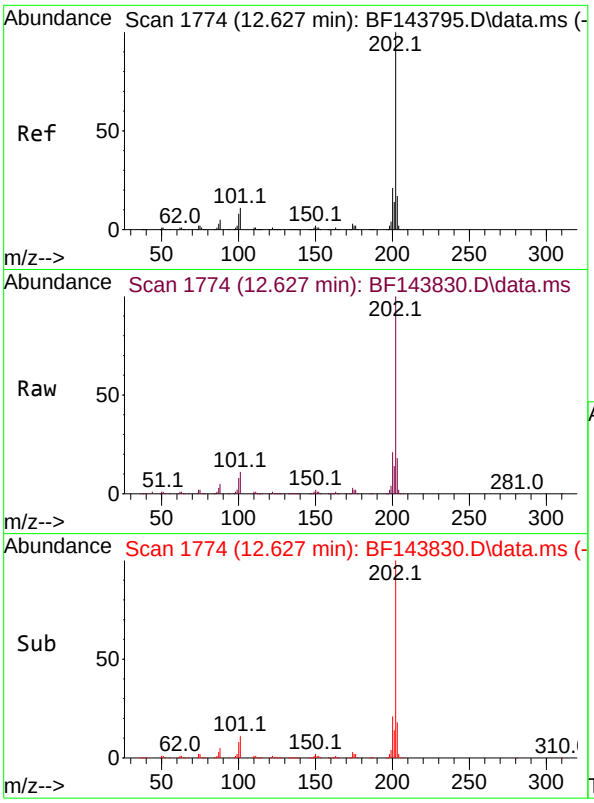


#74
Di-n-butylphthalate
Concen: 39.305 ng
RT: 11.974 min Scan# 1663
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:149 Resp: 776585

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	4.2	3.6	5.4



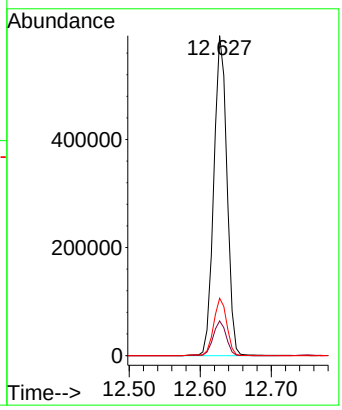


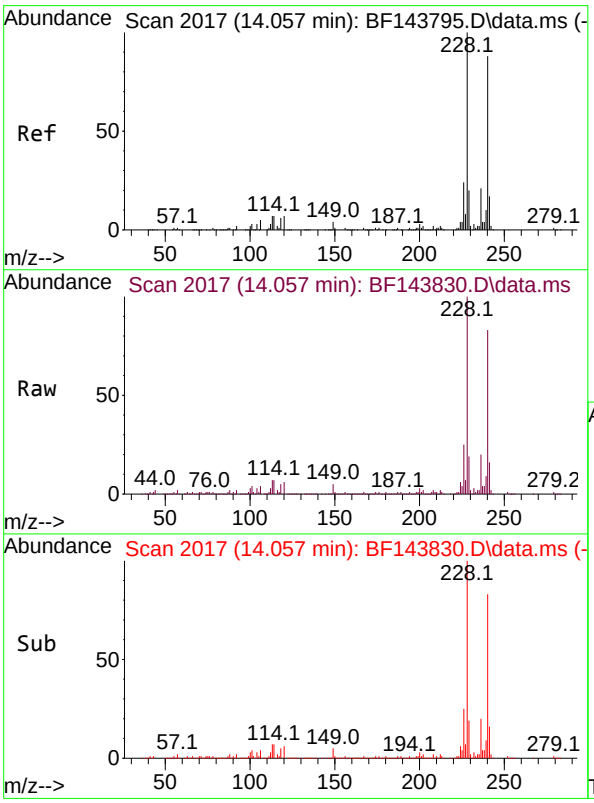
#75
Fluoranthene
Concen: 38.654 ng
RT: 12.627 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:202 Resp: 761566

Ion	Ratio	Lower	Upper
202	100		
101	10.8	0.0	31.1
203	17.9	0.0	37.4

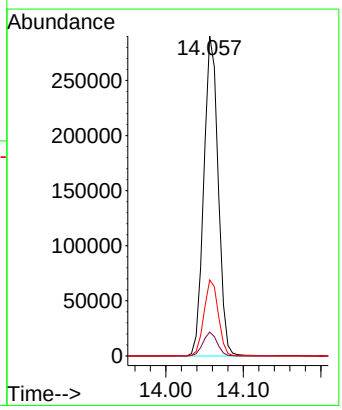


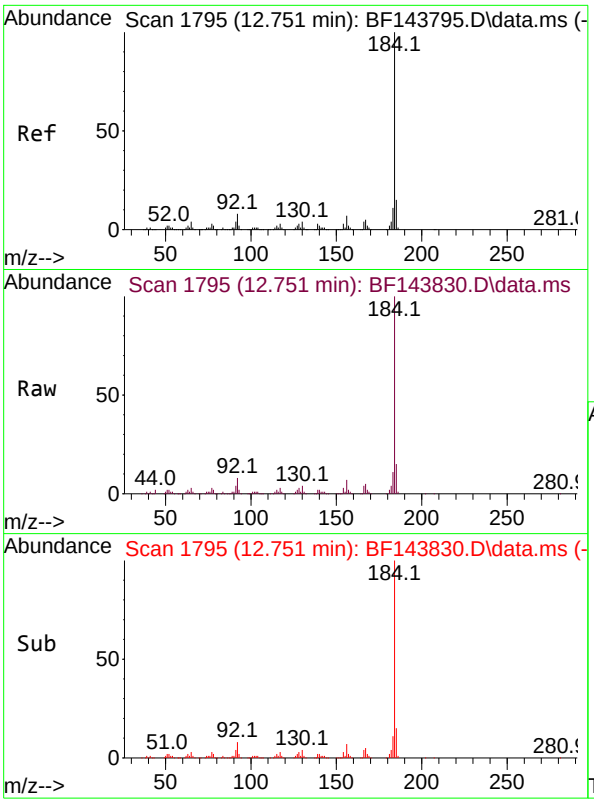


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:240 Resp: 372937

Ion	Ratio	Lower	Upper
240	100		
120	7.4	6.2	9.4
236	23.7	19.4	29.2



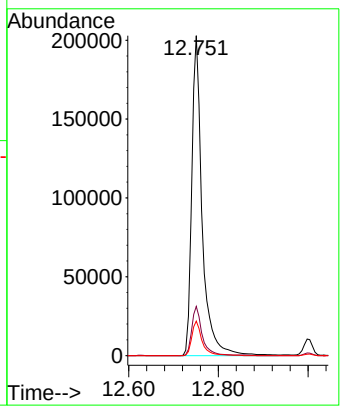


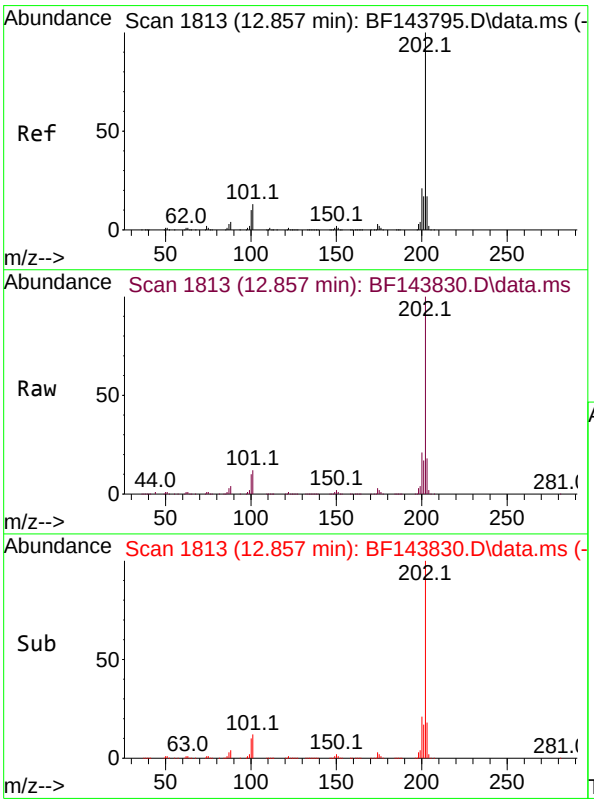
#77
Benzidine
Concen: 36.053 ng
RT: 12.751 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:184 Resp: 327636

Ion	Ratio	Lower	Upper
184	100		
185	15.4	11.6	17.4
183	10.8	8.6	13.0

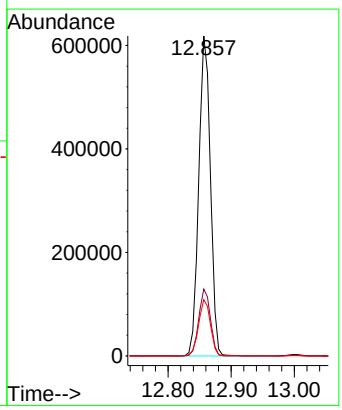


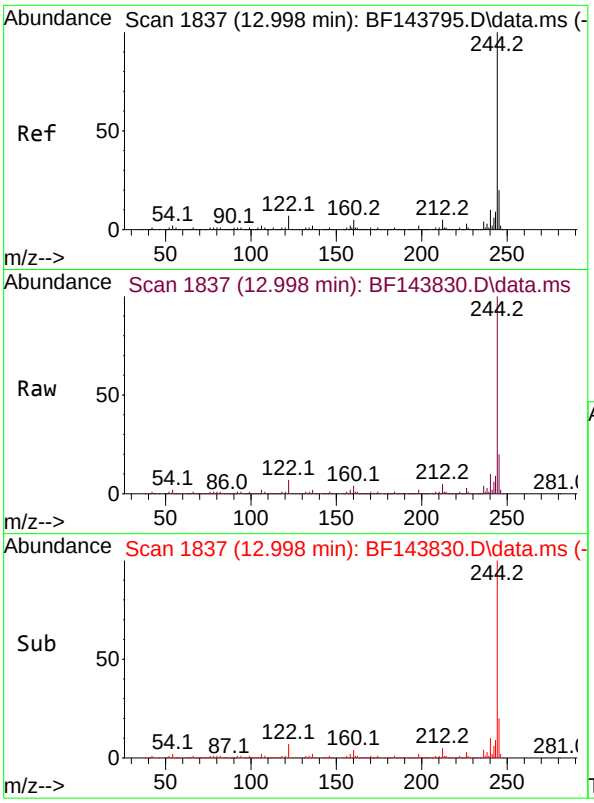


#78
Pyrene
Concen: 43.157 ng
RT: 12.857 min Scan# 1813
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:202 Resp: 791289

Ion	Ratio	Lower	Upper
202	100		
200	20.9	17.0	25.4
203	17.6	13.9	20.9



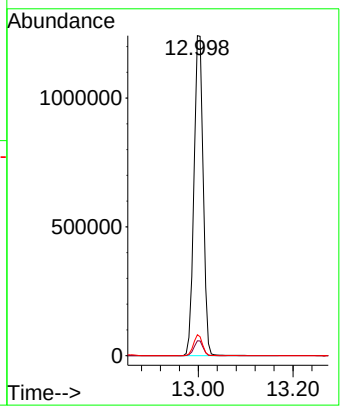


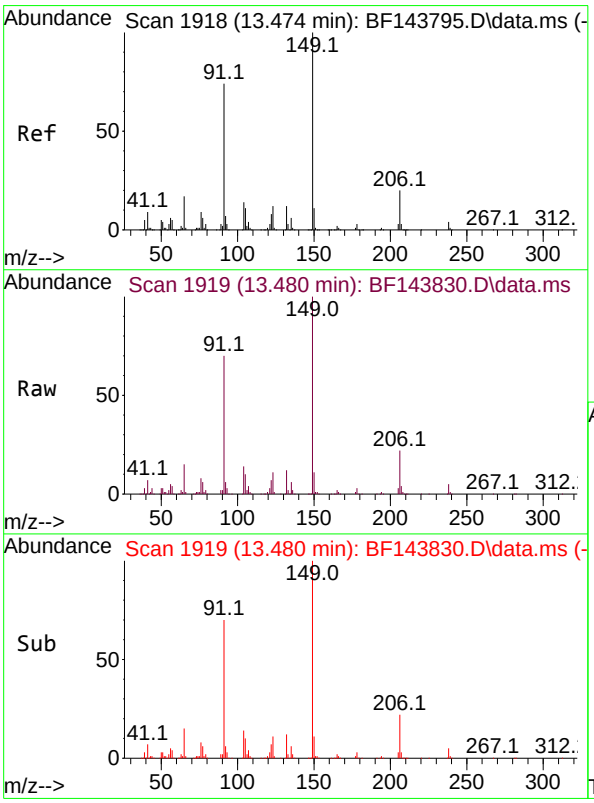
#79
Terphenyl-d14
Concen: 91.385 ng
RT: 12.998 min Scan# 18
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:244 Resp: 1675761

Ion	Ratio	Lower	Upper
244	100		
212	4.6	3.9	5.9
122	6.5	5.6	8.4

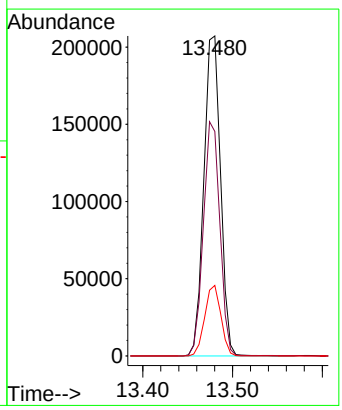


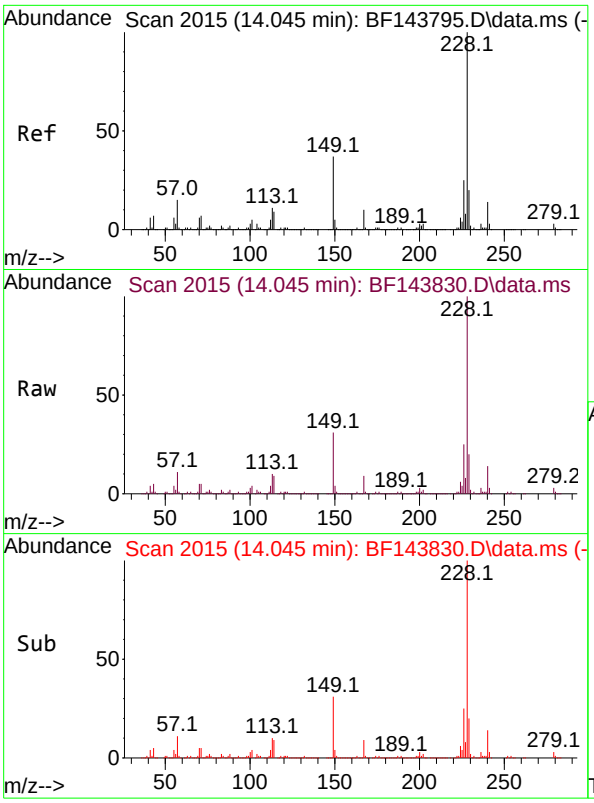


#80
Butylbenzylphthalate
Concen: 42.266 ng
RT: 13.480 min Scan# 1919
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:149 Resp: 268110

Ion	Ratio	Lower	Upper
149	100		
91	70.1	59.5	89.3
206	22.0	16.1	24.1



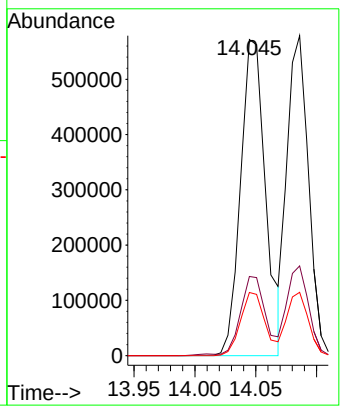


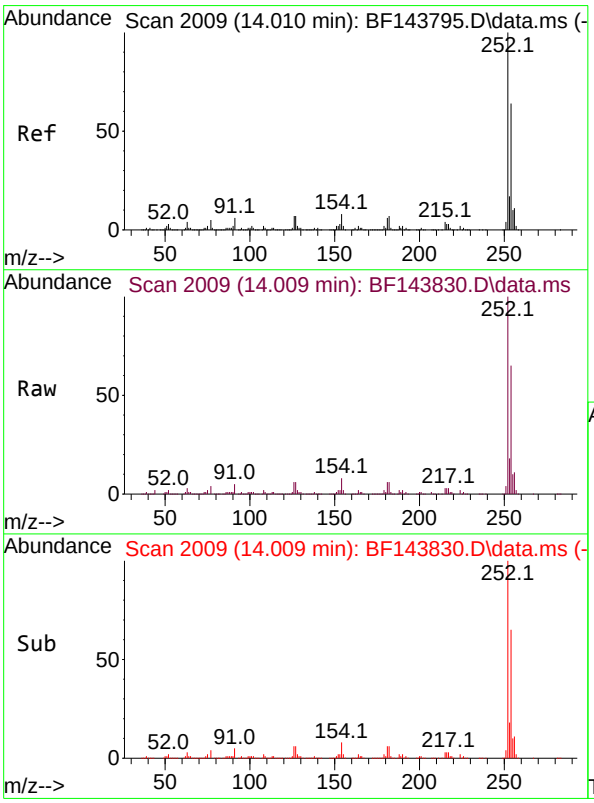
#81
Benzo(a)anthracene
Concen: 40.888 ng
RT: 14.045 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 819198

Ion	Ratio	Lower	Upper
228	100		
226	25.0	20.2	30.2
229	20.0	16.1	24.1

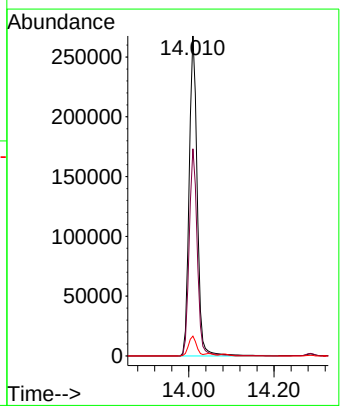


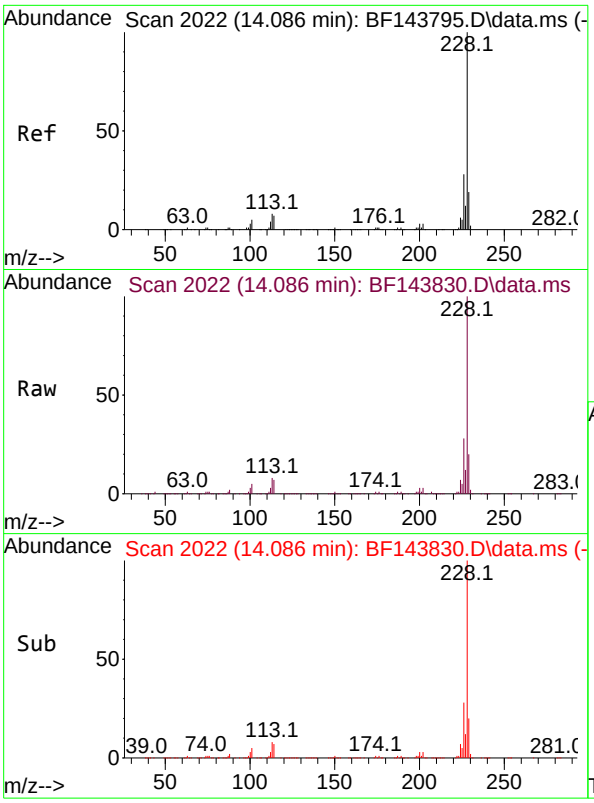


#82
3,3'-Dichlorobenzidine
Concen: 40.452 ng
RT: 14.009 min Scan# 2009
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:252 Resp: 351108

Ion	Ratio	Lower	Upper
252	100		
254	64.7	51.5	77.3
126	6.2	5.4	8.2



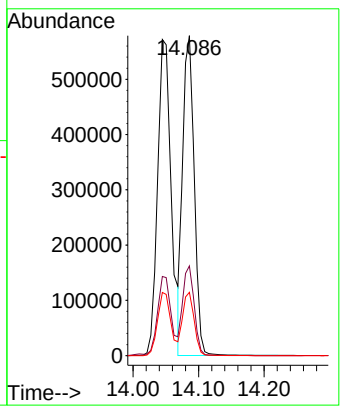


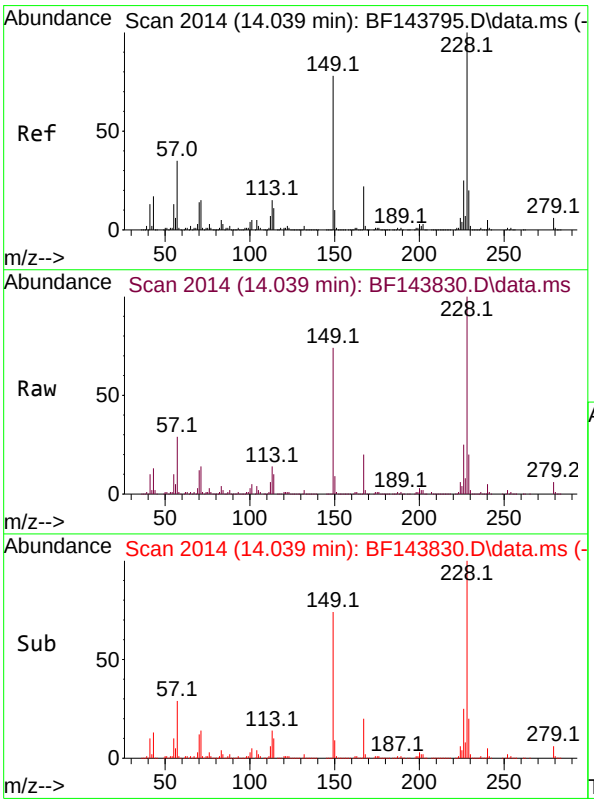
#83
Chrysene
Concen: 39.240 ng
RT: 14.086 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:228 Resp: 711369

Ion	Ratio	Lower	Upper
228	100		
226	28.0	22.6	33.8
229	19.8	15.6	23.4

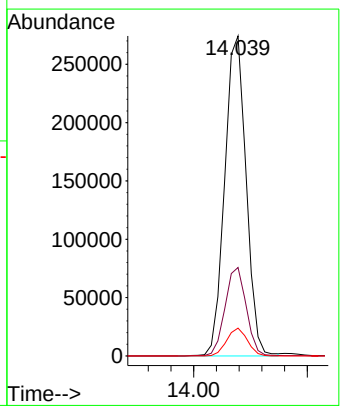


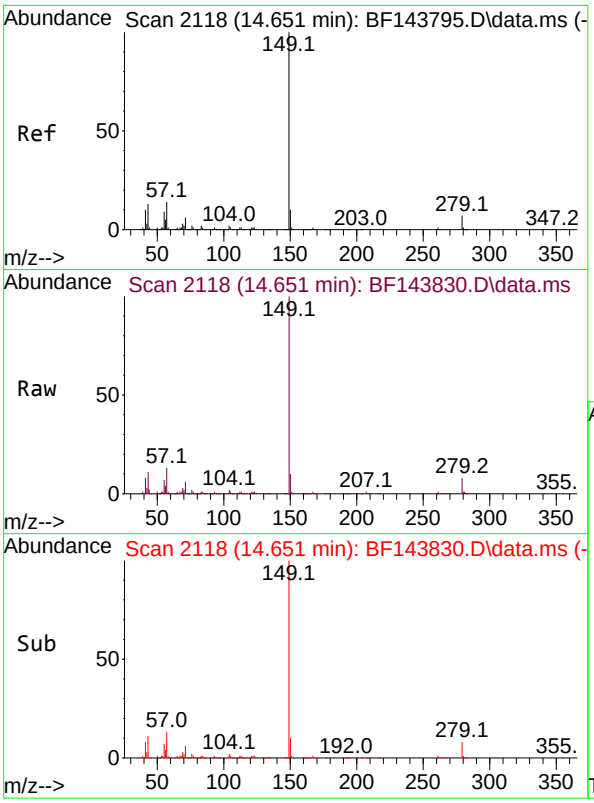


#84
Bis(2-ethylhexyl)phthalate
Concen: 38.621 ng
RT: 14.039 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:149 Resp: 359102

Ion	Ratio	Lower	Upper
149	100		
167	27.6	22.2	33.2
279	8.7	6.0	9.0



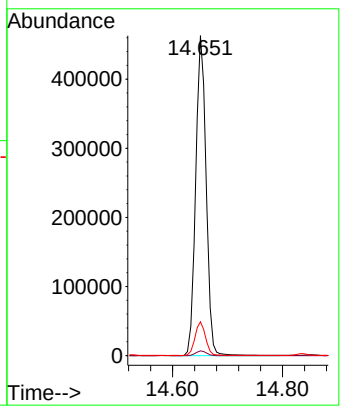


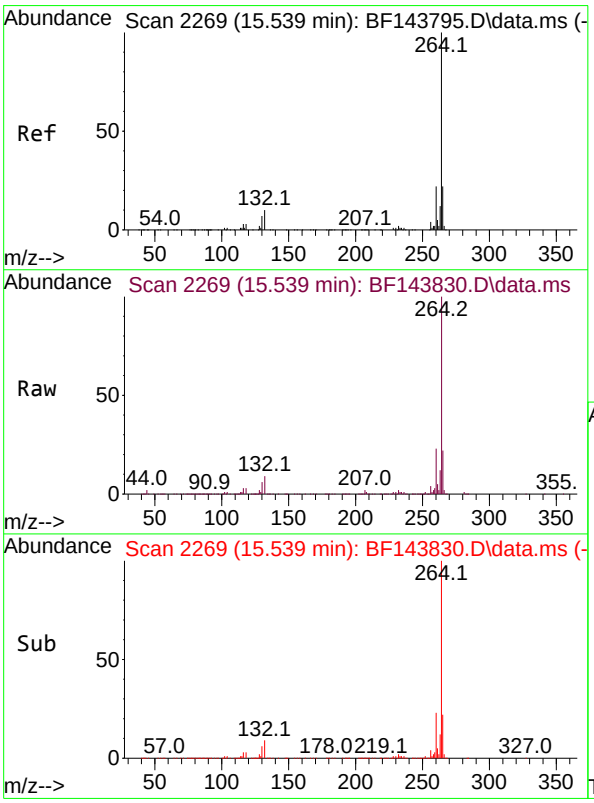
#85
Di-n-octyl phthalate
Concen: 36.101 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:149 Resp: 608888

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.1	1.7
43	10.6	10.7	16.1#

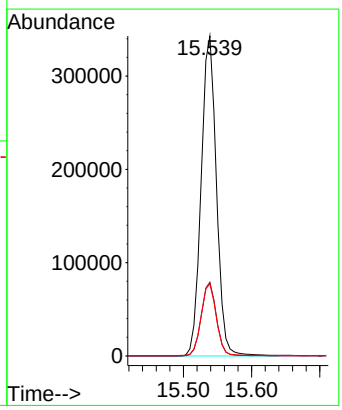


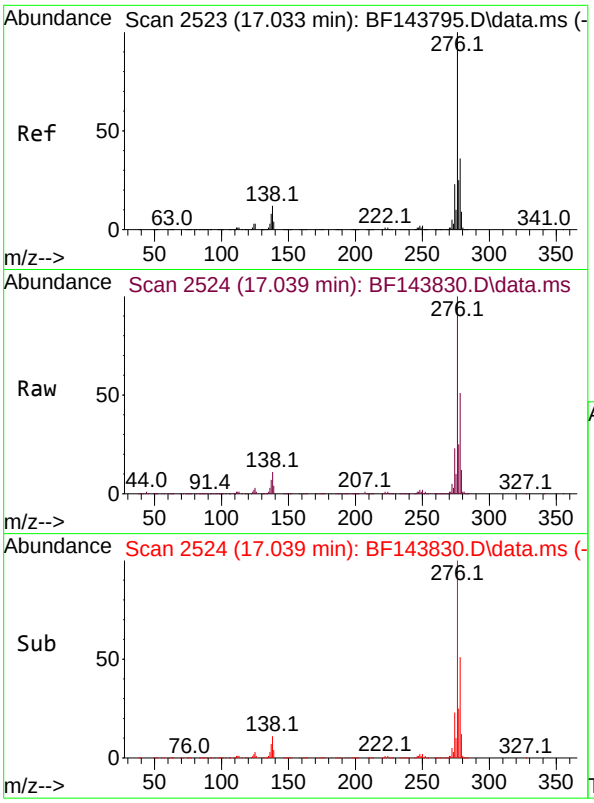


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2269
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:264 Resp: 533890

Ion	Ratio	Lower	Upper
264	100		
260	23.0	17.9	26.9
265	22.5	17.7	26.5



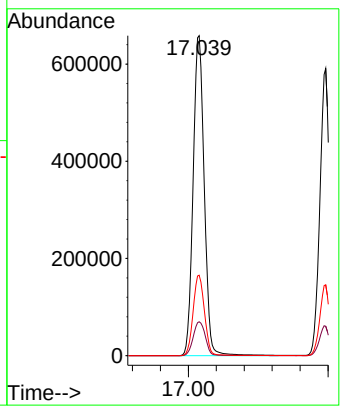


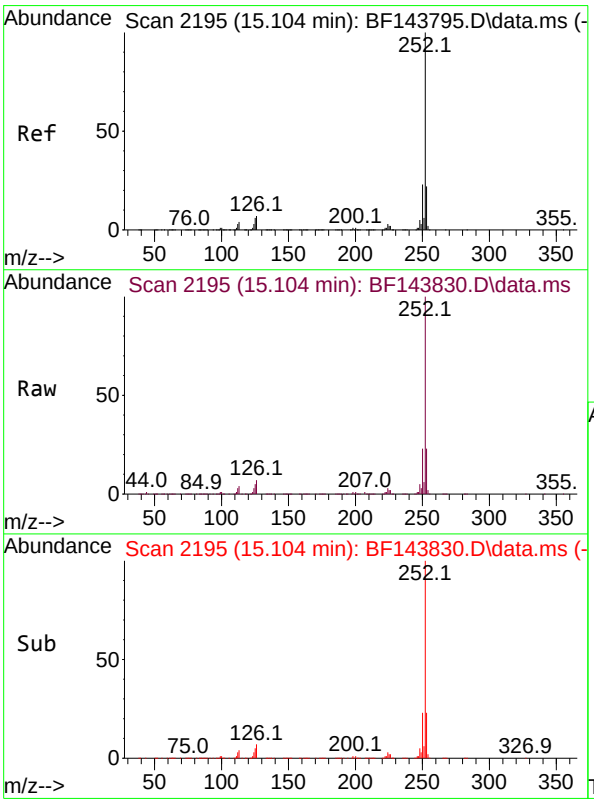
#87
Indeno(1,2,3-cd)pyrene
Concen: 44.781 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:276 Resp: 1813988

Ion	Ratio	Lower	Upper
276	100		
138	11.5	10.6	15.8
277	25.7	20.7	31.1

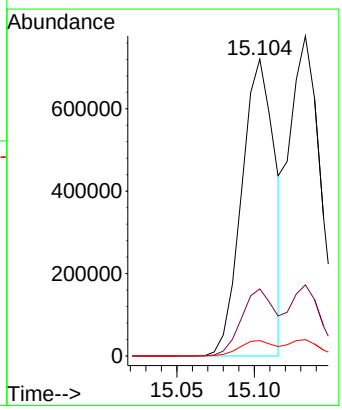


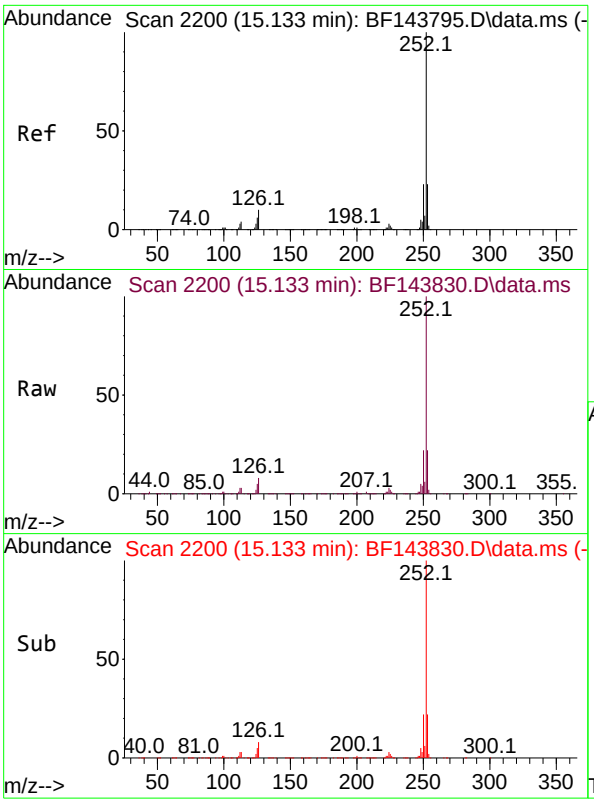


#88
Benzo(b)fluoranthene
Concen: 39.287 ng
RT: 15.104 min Scan# 2195
Delta R.T. -0.000 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:252 Resp: 1068149

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.8	26.8
125	5.2	4.4	6.6



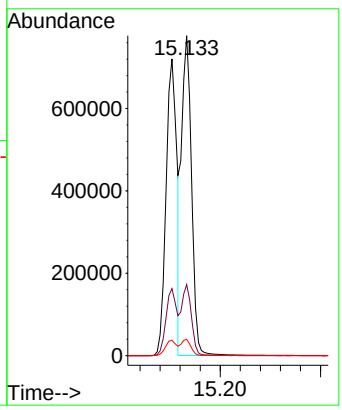


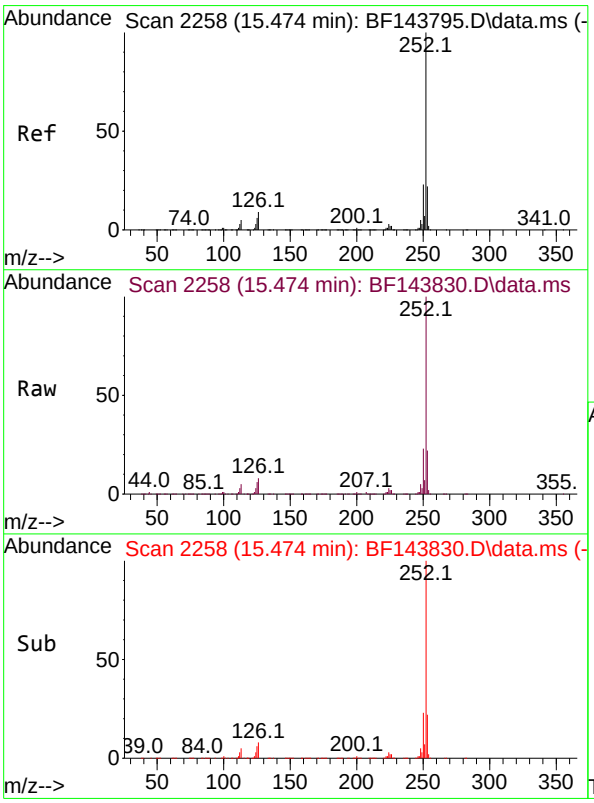
#89
Benzo(k)fluoranthene
Concen: 39.812 ng
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:252 Resp: 1087463

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.9	26.9
125	5.1	4.6	6.8

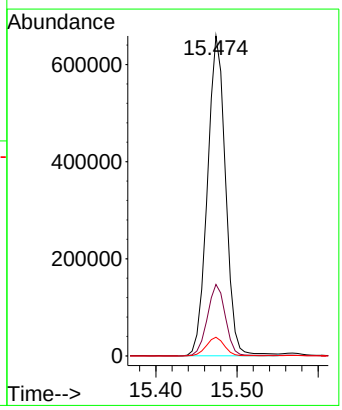


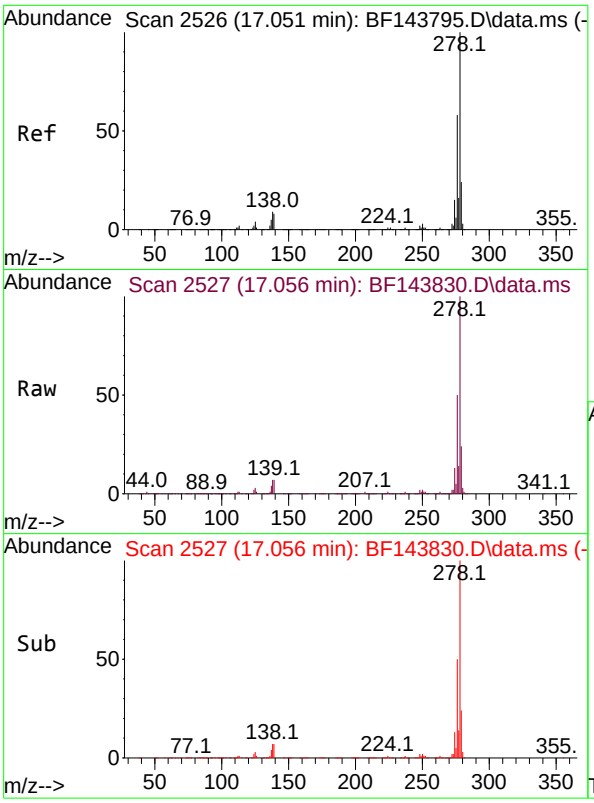


#90
Benzo(a)pyrene
Concen: 40.103 ng
RT: 15.474 min Scan# 2258
Delta R.T. -0.006 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:252 Resp: 1024891

Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.6	26.4
125	5.8	5.0	7.4



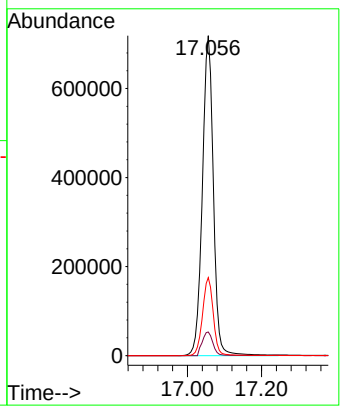


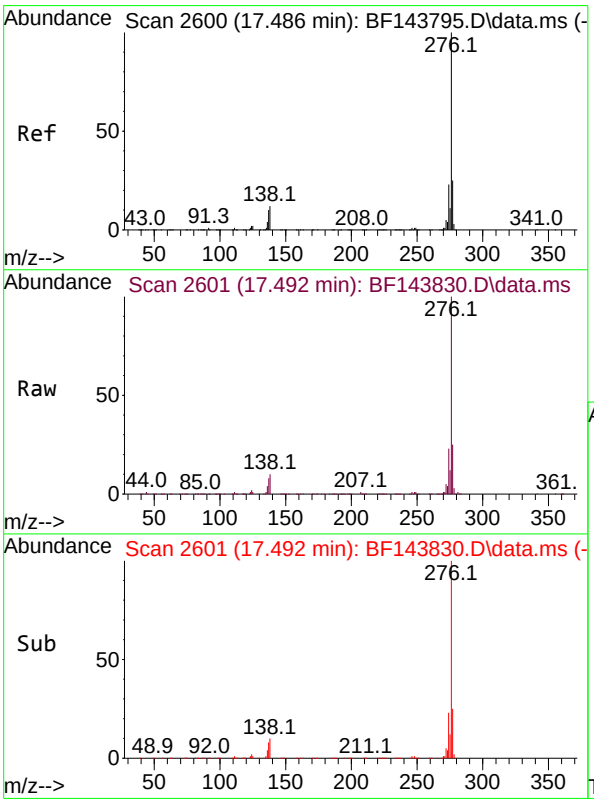
#91
Dibenzo(a,h)anthracene
Concen: 44.774 ng
RT: 17.056 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:278 Resp: 1483447

Ion	Ratio	Lower	Upper
278	100		
139	7.4	6.7	10.1
279	24.4	19.3	28.9

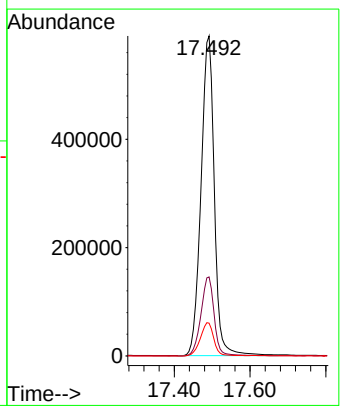




#92
Benzo(g,h,i)perylene
Concen: 45.101 ng
RT: 17.492 min Scan# 2601
Delta R.T. -0.012 min
Lab File: BF143830.D
Acq: 30 Sep 2025 13:36

Tgt Ion:276 Resp: 1440455

Ion	Ratio	Lower	Upper
276	100		
277	24.7	19.6	29.4
138	10.2	9.2	13.8



Sample Results: **BF143830.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143830.D
Acq On : 30 Sep 2025 13:36
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Sep 30 13:56:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	116	0.00
2		1,4-Dioxane	0.589	0.581	1.4	105	0.00
3		Pyridine	1.590	1.579	0.7	106	0.00
4		n-Nitrosodimethylamine	0.797	0.675	15.3	92	0.00
5	S	2-Fluorophenol	1.231	1.238	-0.6	108	0.00
6		Aniline	2.064	2.022	2.0	109	0.00
7	S	Phenol-d6	1.422	1.418	0.3	108	0.00
8		2-Chlorophenol	1.260	1.285	-2.0	111	0.00
9		Benzaldehyde	1.246	1.159	7.0	91	0.00
10	C	Phenol	1.653	1.739	-5.2	115	0.00
11		bis(2-Chloroethyl)ether	1.296	1.278	1.4	108	0.00
12		1,3-Dichlorobenzene	1.463	1.453	0.7	109	0.00
13	C	1,4-Dichlorobenzene	1.460	1.452	0.5	109	0.00
14		1,2-Dichlorobenzene	1.383	1.381	0.1	110	0.00
15		Benzyl Alcohol	1.028	1.068	-3.9	113	0.00
16		2,2'-oxybis(1-Chloropropane	3.073	2.569	16.4	92	0.00
17		2-Methylphenol	0.976	0.992	-1.6	112	0.00
18		Hexachloroethane	0.514	0.502	2.3	107	0.00
19	P	n-Nitroso-di-n-propylamine	0.915	0.880	3.8	111	0.00
20		3+4-Methylphenols	1.188	1.233	-3.8	112	0.00
21	I	Naphthalene-d8	1.000	1.000	0.0	118	0.00
22		Acetophenone	0.439	0.430	2.1	109	0.00
23	S	Nitrobenzene-d5	0.327	0.340	-4.0	113	0.00
24		Nitrobenzene	0.362	0.371	-2.5	112	0.00
25		Isophorone	0.637	0.640	-0.5	112	0.00
26	C	2-Nitrophenol	0.132	0.165	-25.0#	131	0.00
27		2,4-Dimethylphenol	0.285	0.289	-1.4	112	0.00
28		bis(2-Chloroethoxy)methane	0.414	0.409	1.2	110	0.00
29	C	2,4-Dichlorophenol	0.280	0.290	-3.6	115	0.00
30		1,2,4-Trichlorobenzene	0.291	0.300	-3.1	114	0.00
31		Naphthalene	0.957	0.950	0.7	112	0.00
32		Benzoic acid	0.137	0.152	-10.9	127	-0.02
33		4-Chloroaniline	0.336	0.344	-2.4	114	0.00
34	C	Hexachlorobutadiene	0.217	0.231	-6.5	117	0.00
35		Caprolactam	0.072	0.076	-5.6	119	-0.02
36	C	4-Chloro-3-methylphenol	0.263	0.273	-3.8	116	0.00
37		2-Methylnaphthalene	0.611	0.620	-1.5	115	0.00
38		1-Methylnaphthalene	0.584	0.587	-0.5	113	0.00
39	I	Acenaphthene-d10	1.000	1.000	0.0	127	0.00
40		1,2,4,5-Tetrachlorobenzene	0.604	0.612	-1.3	123	0.00
41	P	Hexachlorocyclopentadiene	0.383	0.363	5.2	110	0.00
42	S	2,4,6-Tribromophenol	0.296	0.339	-14.5	131	0.00
43	C	2,4,6-Trichlorophenol	0.378	0.398	-5.3	119	0.00
44		2,4,5-Trichlorophenol	0.395	0.418	-5.8	125	0.00
45	S	2-Fluorobiphenyl	1.282	1.279	0.2	120	0.00
46		1,1'-Biphenyl	1.448	1.406	2.9	119	0.00
47		2-Chloronaphthalene	1.165	1.134	2.7	118	0.00

Sample Results: **BF143830.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143830.D
Acq On : 30 Sep 2025 13:36
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Sep 30 13:56:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
48		2-Nitroaniline	0.352	0.398	-13.1	126	0.00
49		Acenaphthylene	1.604	1.578	1.6	118	0.00
50		Dimethylphthalate	1.219	1.232	-1.1	121	0.00
51		2,6-Dinitrotoluene	0.200	0.235	-17.5	131	0.00
52	C	Acenaphthene	1.056	1.037	1.8	118	0.00
53		3-Nitroaniline	0.243	0.275	-13.2	123	0.00
54	P	2,4-Dinitrophenol	0.064	0.076	-18.7	152#	0.00
55		Dibenzofuran	1.493	1.484	0.6	120	0.00
56	P	4-Nitrophenol	0.196	0.189	3.6	115	0.00
57		2,4-Dinitrotoluene	0.261	0.311	-19.2	128	0.00
58		Fluorene	1.110	1.116	-0.5	123	0.00
59		2,3,4,6-Tetrachlorophenol	0.339	0.391	-15.3	133	0.00
60		Diethylphthalate	1.141	1.133	0.7	118	0.00
61		4-Chlorophenyl-phenylether	0.566	0.582	-2.8	125	0.00
62		4-Nitroaniline	0.228	0.247	-8.3	118	0.00
63		Azobenzene	1.203	1.152	4.2	114	0.00
64	I	Phenanthrene-d10	1.000	1.000	0.0	125	0.00
65		4,6-Dinitro-2-methylphenol	0.067	0.082	-22.4	147	0.00
66	c	n-Nitrosodiphenylamine	0.658	0.657	0.2	120	0.00
67		4-Bromophenyl-phenylether	0.341	0.380	-11.4	132	0.00
68		Hexachlorobenzene	0.470	0.541	-15.1	137	0.00
69		Atrazine	0.190	0.192	-1.1	114	0.00
70	C	Pentachlorophenol	0.234	0.266	-13.7	130	0.00
71		Phenanthrene	1.027	1.014	1.3	117	0.00
72		Anthracene	1.030	1.027	0.3	119	0.00
73		Carbazole	0.901	0.875	2.9	112	0.00
74		Di-n-butylphthalate	1.036	1.018	1.7	110	0.00
75	C	Fluoranthene	1.033	0.998	3.4	109	0.00
76	I	Chrysene-d12	1.000	1.000	0.0	102	0.00
77		Benzidine	0.487	0.439	9.9	88	0.00
78		Pyrene	0.983	1.061	-7.9	108	0.00
79	S	Terphenyl-d14	0.983	1.123	-14.2	112	0.00
80		Butylbenzylphthalate	0.340	0.359	-5.6	94	0.00
81		Benzo(a)anthracene	1.074	1.098	-2.2	98	0.00
82		3,3'-Dichlorobenzidine	0.465	0.471	-1.3	97	0.00
83		Chrysene	0.972	0.954	1.9	95	0.00
84		Bis(2-ethylhexyl)phthalate	0.499	0.481	3.6	88	0.00
85	c	Di-n-octyl phthalate	0.905	0.816	9.8	82	0.00
86	I	Perylene-d12	1.000	1.000	0.0	102	0.00
87		Indeno(1,2,3-cd)pyrene	1.517	1.699	-12.0	107	0.00
88		Benzo(b)fluoranthene	1.018	1.000	1.8	92	0.00
89		Benzo(k)fluoranthene	1.023	1.018	0.5	95	0.00
90	C	Benzo(a)pyrene	0.957	0.960	-0.3	95	0.00
91		Dibenzo(a,h)anthracene	1.241	1.389	-11.9	106	-0.01
92		Benzo(g,h,i)perylene	1.196	1.349	-12.8	107	-0.01

Sample Results: **BF143830.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143830.D
Acq On : 30 Sep 2025 13:36
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Sep 30 13:56:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1

Sample Results: **BF143830.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143830.D
Acq On : 30 Sep 2025 13:36
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Sep 30 13:56:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
1	I	1,4-Dichlorobenzene-d4	20.000	20.000	0.0	116	0.00
2		1,4-Dioxane	40.000	39.427	1.4	105	0.00
3		Pyridine	40.000	39.723	0.7	106	0.00
4		n-Nitrosodimethylamine	40.000	33.846	15.4	92	0.00
5	S	2-Fluorophenol	80.000	80.426	-0.5	108	0.00
6		Aniline	40.000	39.173	2.1	109	0.00
7	S	Phenol-d6	80.000	79.738	0.3	108	0.00
8		2-Chlorophenol	40.000	40.775	-1.9	111	0.00
9		Benzaldehyde	40.000	37.213	7.0	91	0.00
10	C	Phenol	40.000	42.075	-5.2	115	0.00
11		bis(2-Chloroethyl)ether	40.000	39.436	1.4	108	0.00
12		1,3-Dichlorobenzene	40.000	39.715	0.7	109	0.00
13	C	1,4-Dichlorobenzene	40.000	39.775	0.6	109	0.00
14		1,2-Dichlorobenzene	40.000	39.933	0.2	110	0.00
15		Benzyl Alcohol	40.000	41.570	-3.9	113	0.00
16		2,2'-oxybis(1-Chloropropane	40.000	33.441	16.4	92	0.00
17		2-Methylphenol	40.000	40.685	-1.7	112	0.00
18		Hexachloroethane	40.000	39.085	2.3	107	0.00
19	P	n-Nitroso-di-n-propylamine	40.000	38.495	3.8	111	0.00
20		3+4-Methylphenols	40.000	41.501	-3.8	112	0.00
21	I	Naphthalene-d8	20.000	20.000	0.0	118	0.00
22		Acetophenone	40.000	39.122	2.2	109	0.00
23	S	Nitrobenzene-d5	80.000	83.224	-4.0	113	0.00
24		Nitrobenzene	40.000	40.971	-2.4	112	0.00
25		Isophorone	40.000	40.228	-0.6	112	0.00
26	C	2-Nitrophenol	40.000	44.516	-11.3	131	0.00
27		2,4-Dimethylphenol	40.000	40.674	-1.7	112	0.00
28		bis(2-Chloroethoxy)methane	40.000	39.528	1.2	110	0.00
29	C	2,4-Dichlorophenol	40.000	41.484	-3.7	115	0.00
30		1,2,4-Trichlorobenzene	40.000	41.314	-3.3	114	0.00
31		Naphthalene	40.000	39.693	0.8	112	0.00
32		Benzoic acid	40.000	44.239	-10.6	127	-0.02
33		4-Chloroaniline	40.000	40.907	-2.3	114	0.00
34	C	Hexachlorobutadiene	40.000	42.679	-6.7	117	0.00
35		Caprolactam	40.000	42.236	-5.6	119	-0.02
36	C	4-Chloro-3-methylphenol	40.000	41.518	-3.8	116	0.00
37		2-Methylnaphthalene	40.000	40.655	-1.6	115	0.00
38		1-Methylnaphthalene	40.000	40.193	-0.5	113	0.00
39	I	Acenaphthene-d10	20.000	20.000	0.0	127	0.00
40		1,2,4,5-Tetrachlorobenzene	40.000	40.556	-1.4	123	0.00
41	P	Hexachlorocyclopentadiene	40.000	37.932	5.2	110	0.00
42	S	2,4,6-Tribromophenol	80.000	91.472	-14.3	131	0.00
43	C	2,4,6-Trichlorophenol	40.000	42.077	-5.2	119	0.00
44		2,4,5-Trichlorophenol	40.000	42.277	-5.7	125	0.00
45	S	2-Fluorobiphenyl	80.000	79.825	0.2	120	0.00
46		1,1'-Biphenyl	40.000	38.851	2.9	119	0.00
47		2-Chloronaphthalene	40.000	38.910	2.7	118	0.00

Sample Results: **BF143830.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143830.D
Acq On : 30 Sep 2025 13:36
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Sep 30 13:56:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

		Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48		2-Nitroaniline	40.000	45.256	-13.1	126	0.00
49		Acenaphthylene	40.000	39.347	1.6	118	0.00
50		Dimethylphthalate	40.000	40.421	-1.1	121	0.00
51		2,6-Dinitrotoluene	40.000	46.981	-17.5	131	0.00
52	C	Acenaphthene	40.000	39.295	1.8	118	0.00
53		3-Nitroaniline	40.000	45.322	-13.3	123	0.00
54	P	2,4-Dinitrophenol	40.000	46.822	-17.1	152	0.00
55		Dibenzofuran	40.000	39.772	0.6	120	0.00
56	P	4-Nitrophenol	40.000	38.721	3.2	115	0.00
57		2,4-Dinitrotoluene	40.000	42.182	-5.5	128	0.00
58		Fluorene	40.000	40.223	-0.6	123	0.00
59		2,3,4,6-Tetrachlorophenol	40.000	46.219	-15.5	133	0.00
60		Diethylphthalate	40.000	39.714	0.7	118	0.00
61		4-Chlorophenyl-phenylether	40.000	41.148	-2.9	125	0.00
62		4-Nitroaniline	40.000	43.284	-8.2	118	0.00
63		Azobenzene	40.000	38.301	4.2	114	0.00
64	I	Phenanthrene-d10	20.000	20.000	0.0	125	0.00
65		4,6-Dinitro-2-methylphenol	40.000	45.442	-13.6	147	0.00
66	c	n-Nitrosodiphenylamine	40.000	39.953	0.1	120	0.00
67		4-Bromophenyl-phenylether	40.000	44.543	-11.4	132	0.00
68		Hexachlorobenzene	40.000	46.056	-15.1	137	0.00
69		Atrazine	40.000	40.279	-0.7	114	0.00
70	C	Pentachlorophenol	40.000	45.577	-13.9	130	0.00
71		Phenanthrene	40.000	39.482	1.3	117	0.00
72		Anthracene	40.000	39.881	0.3	119	0.00
73		Carbazole	40.000	38.853	2.9	112	0.00
74		Di-n-butylphthalate	40.000	39.305	1.7	110	0.00
75	C	Fluoranthene	40.000	38.654	3.4	109	0.00
76	I	Chrysene-d12	20.000	20.000	0.0	102	0.00
77		Benzidine	40.000	36.053	9.9	88	0.00
78		Pyrene	40.000	43.157	-7.9	108	0.00
79	S	Terphenyl-d14	80.000	91.385	-14.2	112	0.00
80		Butylbenzylphthalate	40.000	42.266	-5.7	94	0.00
81		Benzo(a)anthracene	40.000	40.888	-2.2	98	0.00
82		3,3'-Dichlorobenzidine	40.000	40.452	-1.1	97	0.00
83		Chrysene	40.000	39.240	1.9	95	0.00
84		Bis(2-ethylhexyl)phthalate	40.000	38.621	3.4	88	0.00
85	c	Di-n-octyl phthalate	40.000	36.101	9.7	82	0.00
86	I	Perylene-d12	20.000	20.000	0.0	102	0.00
87		Indeno(1,2,3-cd)pyrene	40.000	44.781	-12.0	107	0.00
88		Benzo(b)fluoranthene	40.000	39.287	1.8	92	0.00
89		Benzo(k)fluoranthene	40.000	39.812	0.5	95	0.00
90	C	Benzo(a)pyrene	40.000	40.103	-0.3	95	0.00
91		Dibenzo(a,h)anthracene	40.000	44.774	-11.9	106	-0.01
92		Benzo(g,h,i)perylene	40.000	45.101	-12.8	107	-0.01

Sample Results: **BF143830.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143830.D
Acq On : 30 Sep 2025 13:36
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Sep 30 13:56:43 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

QC SAMPLE DATA

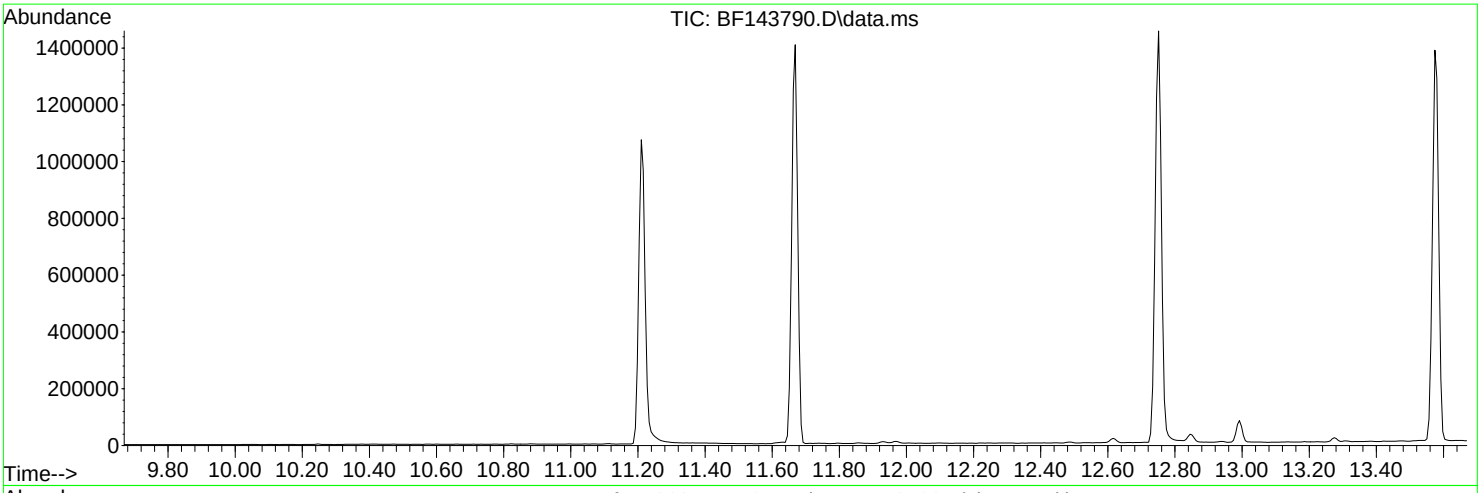
Sample Results: **BF143790.D**

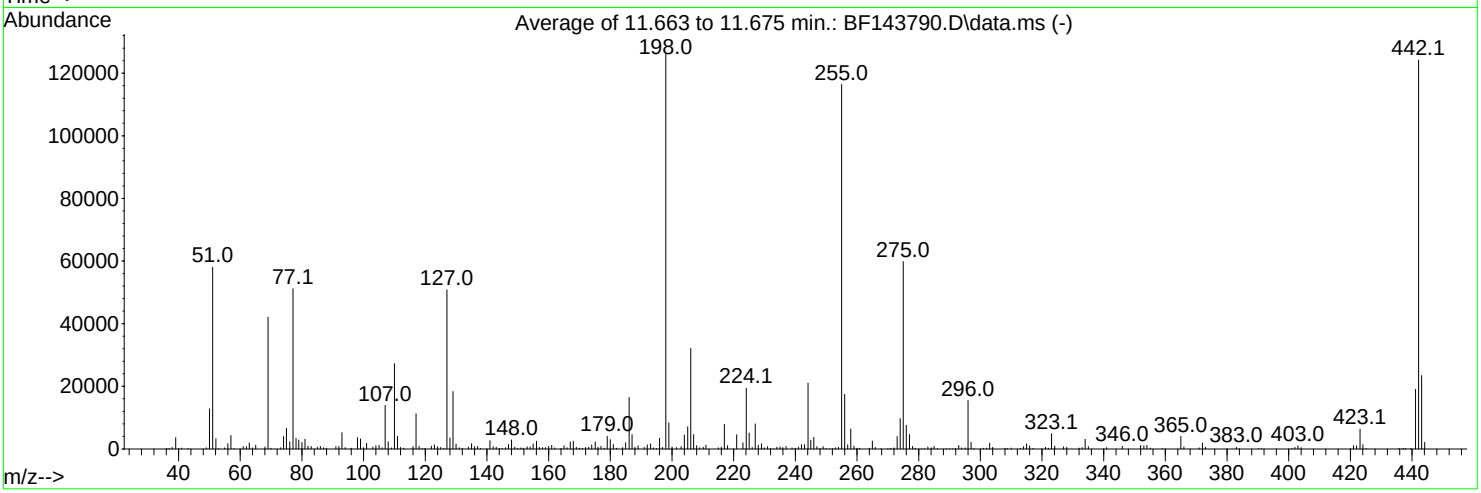
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143790.D
Acq On : 23 Sep 2025 09:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 24 05:00:00 2025





AutoFind: Scans 1610, 1611, 1612; Background Corrected with Scan 1604

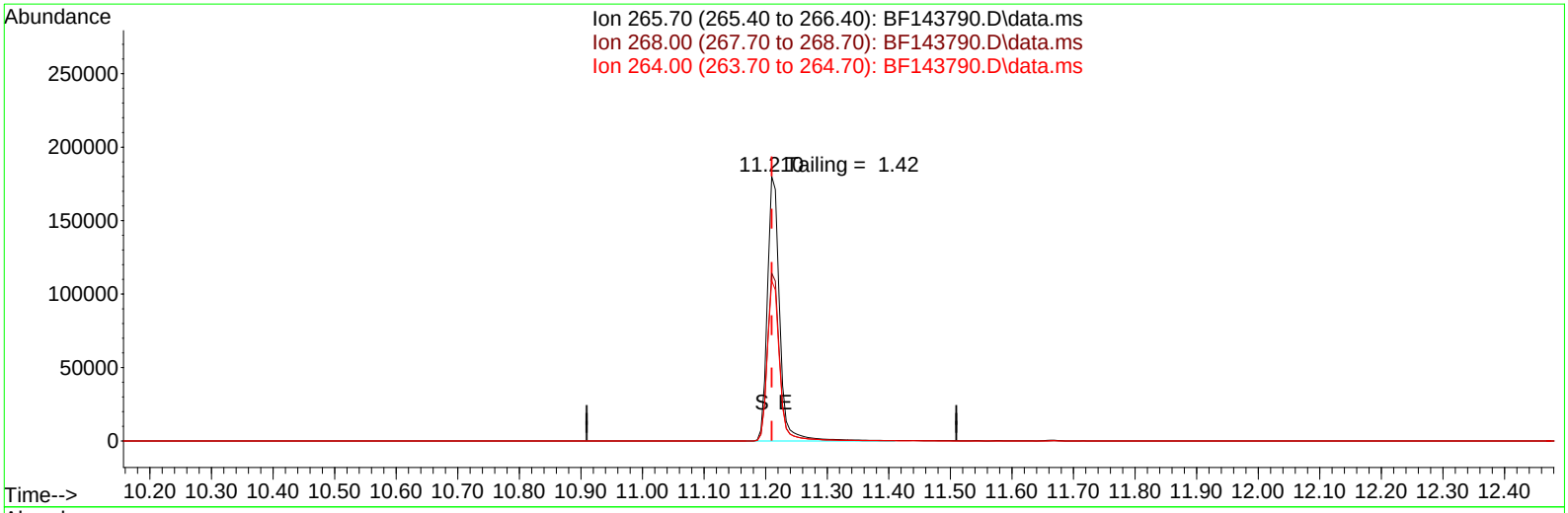
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.6	670	PASS
69	69	100	100	100.0	42104	PASS
70	69	0.00	2	0.6	252	PASS
197	198	0.00	2	0.4	514	PASS
198	198	100	100	100.0	126099	PASS
199	198	5	9	6.6	8311	PASS
365	198	1	100	3.2	4006	PASS
441	443	0.01	150	81.4	19061	PASS
442	442	100	100	100.0	124205	PASS
443	442	15	24	18.9	23416	PASS

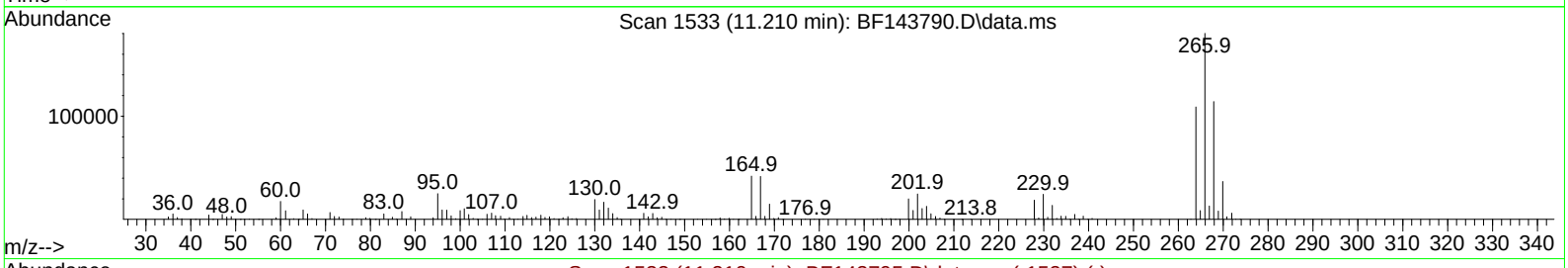
Sample Results: **BF143790.D**

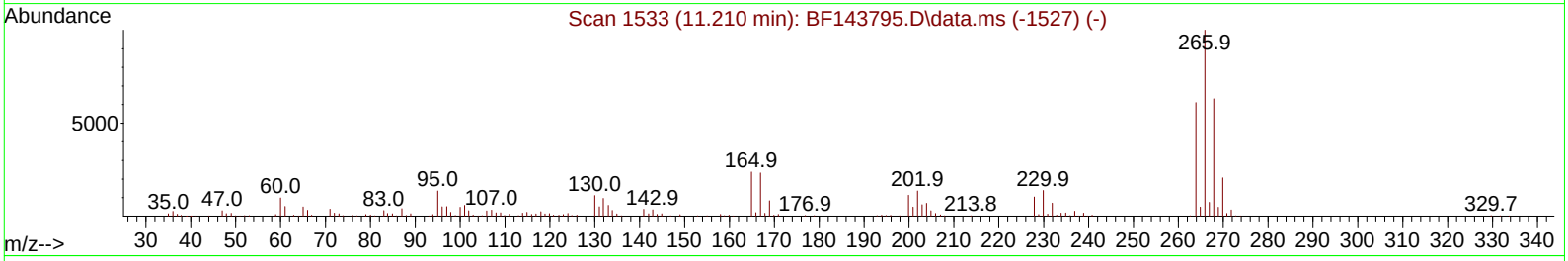
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143790.D
Acq On : 23 Sep 2025 09:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Sep 23 14:37:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 14:30:38 2025
Response via : Initial Calibration







TIC: BF143790.D\data.ms

(70) Pentachlorophenol (C)

11.210min (+ 0.000) 32047.58 ng

response 252838

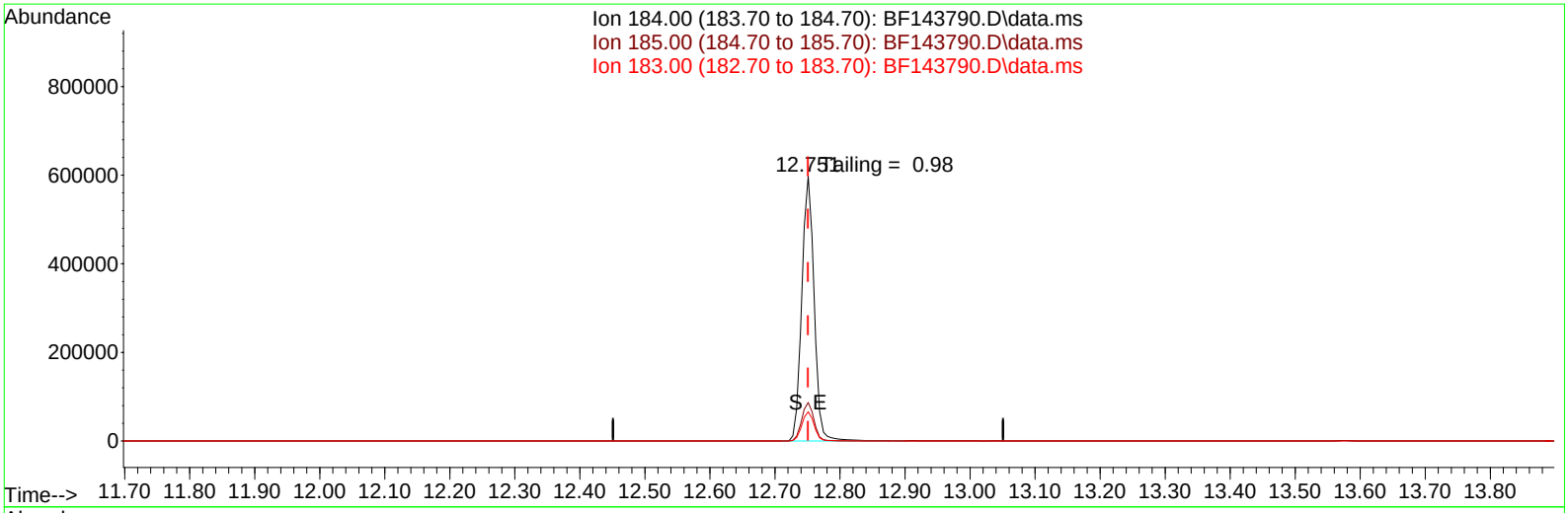
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.10	63.36
264.00	61.00	60.49
0.00	0.00	0.00

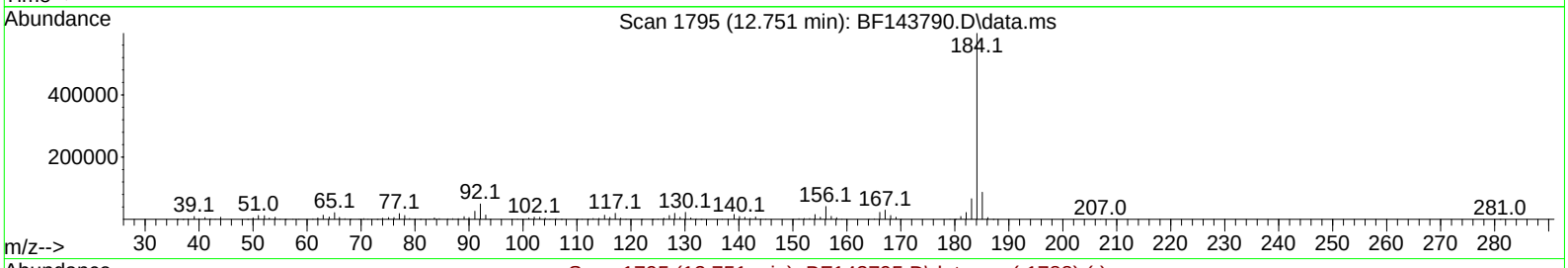
Sample Results: **BF143790.D**

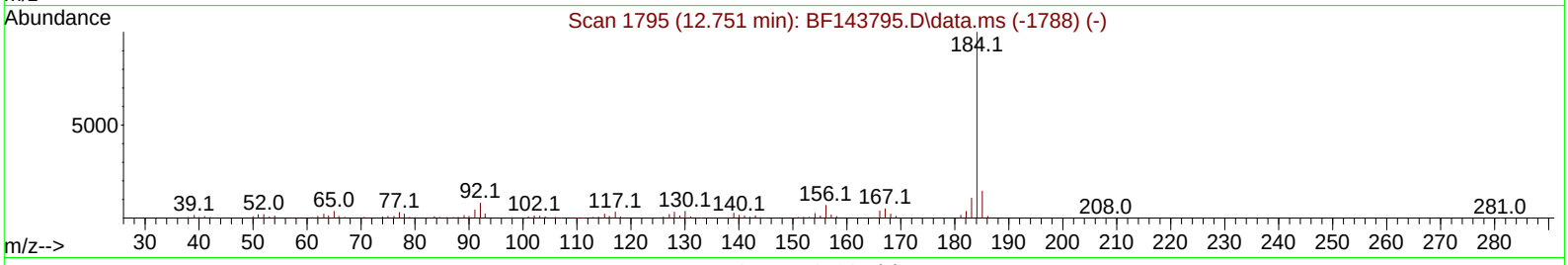
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF092325\
Data File : BF143790.D
Acq On : 23 Sep 2025 09:31
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Sep 23 14:37:29 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 23 14:30:38 2025
Response via : Initial Calibration







TIC: BF143790.D\data.ms

(77) Benzidine

12.751min (+ 0.000) 22811.55 ng

response 789331

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.50	14.56
183.00	10.80	11.07
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/23/2025	BNA_F	BF143790.D
Compound Name	**Response**	**Retention Time**
DDT	356414	13.574
DDD	5539	13.274
DDE	649	12.939
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
6188	362602	1.71

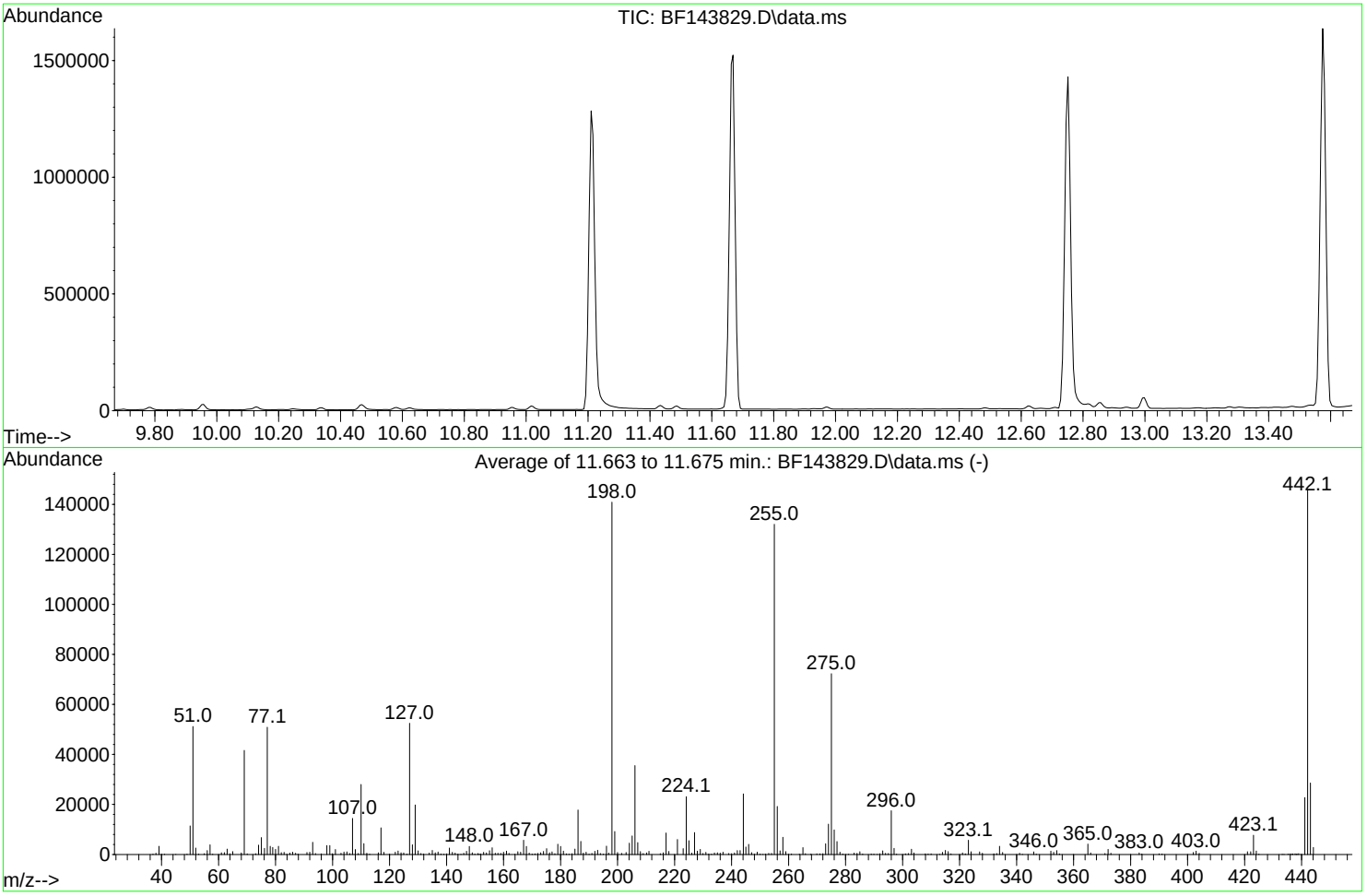
Sample Results: **BF143829.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143829.D
Acq On : 30 Sep 2025 12:36
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Sep 24 05:00:00 2025



AutoFind: Scans 1610, 1611, 1612; Background Corrected with Scan 1603

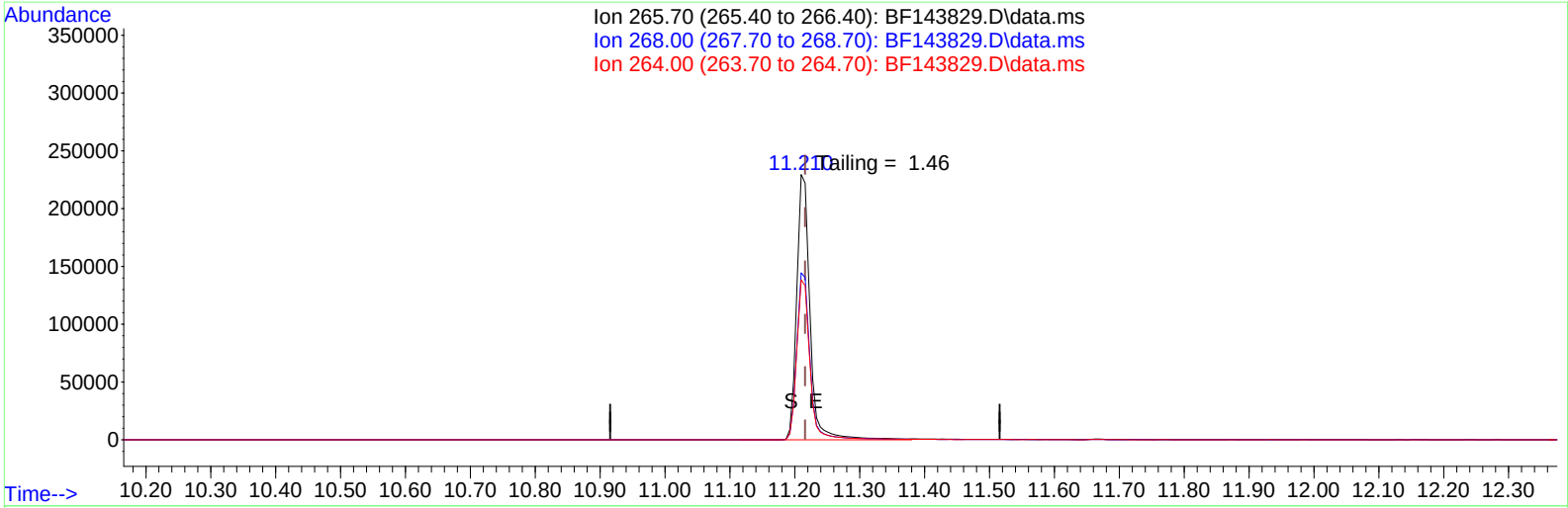
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
68	69	0.00	2	1.5	642	PASS
69	69	100	100	100.0	41624	PASS
70	69	0.00	2	0.6	249	PASS
197	198	0.00	2	0.4	591	PASS
198	198	100	100	100.0	140891	PASS
199	198	5	9	6.5	9207	PASS
365	198	1	100	3.0	4182	PASS
441	443	0.01	150	79.6	22741	PASS
442	442	100	100	100.0	145544	PASS
443	442	15	24	19.6	28576	PASS

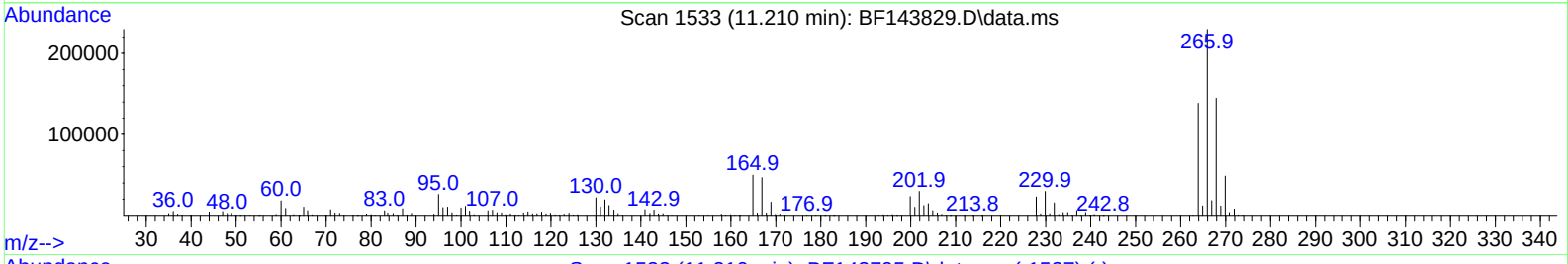
Sample Results: **BF143829.D**

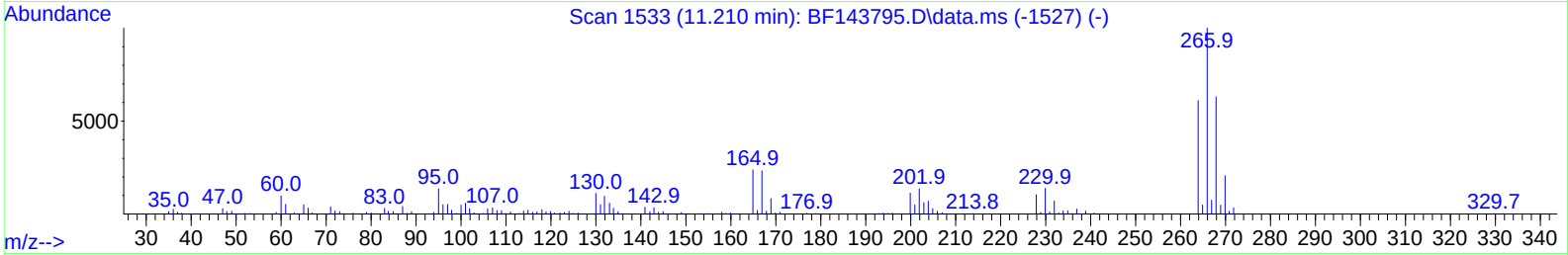
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143829.D
Acq On : 30 Sep 2025 12:36
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Sep 30 13:05:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration







TIC: BF143829.D\data.ms

(70) Pentachlorophenol (C)

11.210min (-0.006) 35352.24 ng

response 326491

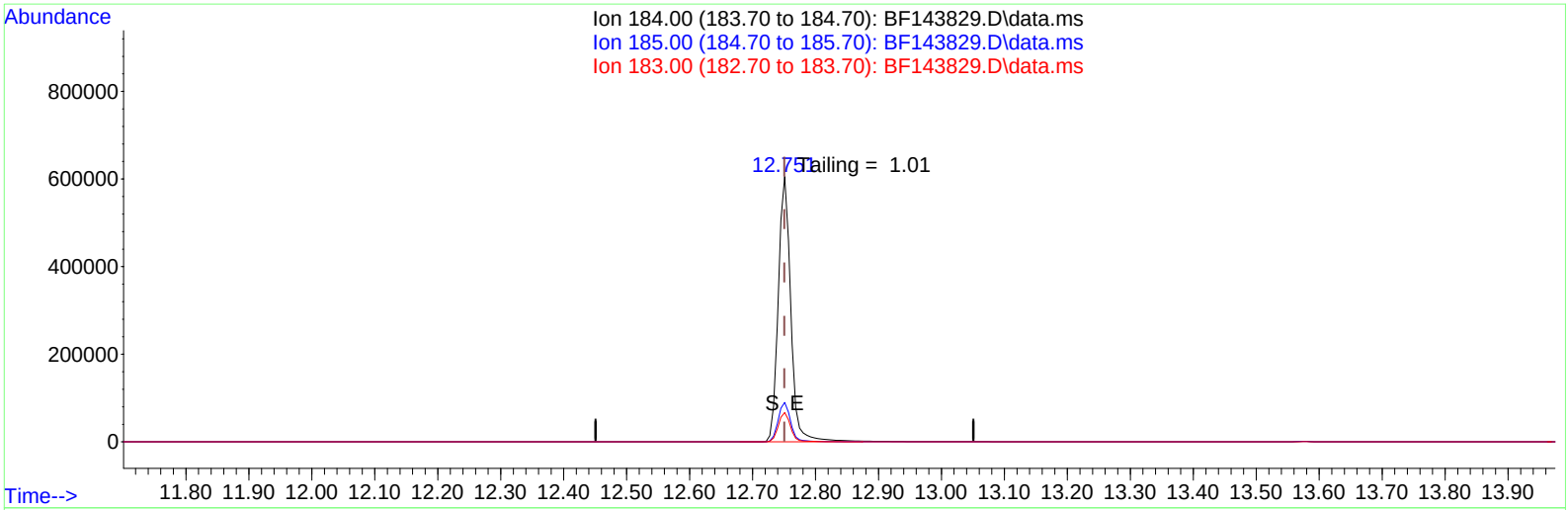
Ion	Exp%	Act%
265.70	100.00	100.00
268.00	63.10	62.97
264.00	61.00	60.26
0.00	0.00	0.00

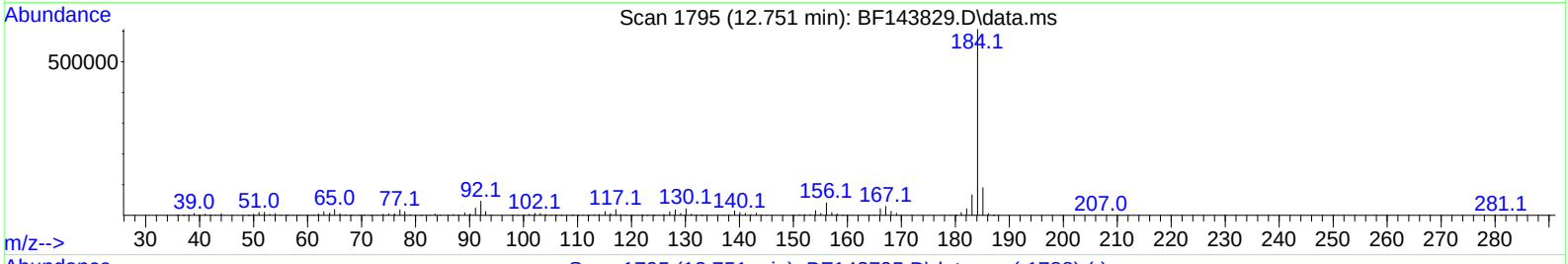
Sample Results: **BF143829.D**

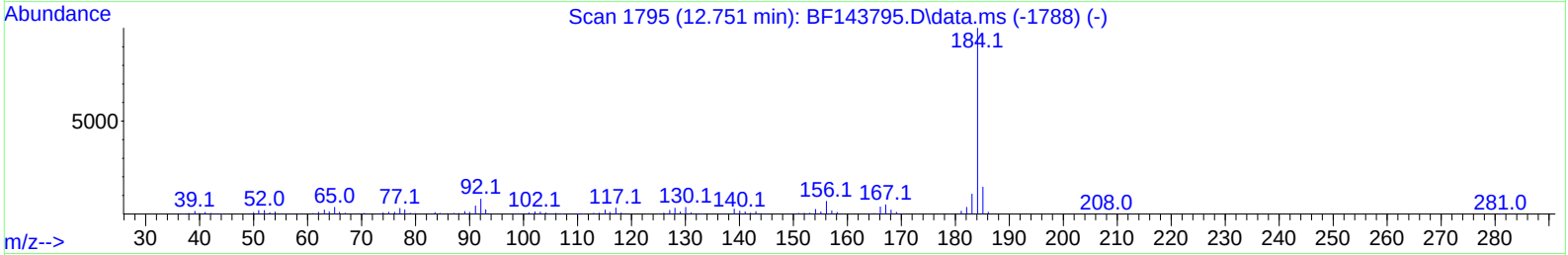
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143829.D
Acq On : 30 Sep 2025 12:36
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Sep 30 13:05:18 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration







TIC: BF143829.D\data.ms

(77) Benzidine

12.751min (+ 0.000) 0.00 ng

response 840967

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.50	14.89
183.00	10.80	11.05
0.00	0.00	0.00

Instrument :
BNA_F
ClientSampleId :
DFTPP

DDT Breakdown

Date	Instrument Name	DFTPP Data File
9/30/2025	BNA_F	BF143829.D
Compound Name	**Response**	**Retention Time**
DDT	440560	13.574
DDD	4133	13.274
DDE	1748	12.939
SUM(DDD+DDE)	**SUM(DDT+DDD+DDE)**	**% Breakdown Of DDT**
5881	446441	1.32

Raw Data: **BF143831.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 916	Date Received:	
Client Sample ID:	PB169880BL	SDG No.:	Q3177
Lab Sample ID:	PB169880BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143831.D	1	09/29/25 08:42	09/30/25 14:05	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
62-75-9	n-Nitrosodimethylamine	0.86	U	0.86	10.0	ug/L
110-86-1	Pyridine	1.30	U	1.30	5.00	ug/L
100-52-7	Benzaldehyde	3.90	U	3.90	10.0	ug/L
62-53-3	Aniline	1.50	U	1.50	5.00	ug/L
108-95-2	Phenol	0.91	U	0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	0.81	U	0.81	5.00	ug/L
95-57-8	2-Chlorophenol	0.58	U	0.58	5.00	ug/L
100-51-6	Benzyl Alcohol	1.60	U	1.60	10.0	ug/L
95-48-7	2-Methylphenol	1.10	U	1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	1.30	U	1.30	5.00	ug/L
98-86-2	Acetophenone	0.74	U	0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	1.10	U	1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	1.40	U	1.40	2.50	ug/L
67-72-1	Hexachloroethane	0.65	U	0.65	5.00	ug/L
98-95-3	Nitrobenzene	0.76	U	0.76	5.00	ug/L
78-59-1	Isophorone	0.75	U	0.75	5.00	ug/L
88-75-5	2-Nitrophenol	1.80	U	1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	1.90	U	1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	0.68	U	0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	0.52	U	0.52	5.00	ug/L
65-85-0	Benzoic acid	4.20	U	4.20	10.0	ug/L
91-20-3	Naphthalene	0.50	U	0.50	5.00	ug/L
106-47-8	4-Chloroaniline	0.84	U	0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	0.54	U	0.54	5.00	ug/L
105-60-2	Caprolactam	1.10	U	1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	0.59	U	0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	0.56	U	0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	3.60	U	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	0.51	U	0.51	5.00	ug/L

Raw Data: **BF143831.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 916	Date Received:	
Client Sample ID:	PB169880BL	SDG No.:	Q3177
Lab Sample ID:	PB169880BL	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143831.D	1	09/29/25 08:42	09/30/25 14:05	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-95-4	2,4,5-Trichlorophenol	0.62	U	0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	0.53	U	0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	0.61	U	0.61	5.00	ug/L
88-74-4	2-Nitroaniline	1.30	U	1.30	5.00	ug/L
131-11-3	Dimethylphthalate	0.61	U	0.61	5.00	ug/L
208-96-8	Acenaphthylene	0.75	U	0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	0.92	U	0.92	5.00	ug/L
99-09-2	3-Nitroaniline	1.10	U	1.10	5.00	ug/L
83-32-9	Acenaphthene	0.55	U	0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	6.00	U	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	2.40	U	2.40	10.0	ug/L
132-64-9	Dibenzofuran	0.61	U	0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	1.20	U	1.20	5.00	ug/L
84-66-2	Diethylphthalate	0.69	U	0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	0.68	U	0.68	5.00	ug/L
86-73-7	Fluorene	0.63	U	0.63	5.00	ug/L
100-01-6	4-Nitroaniline	1.50	U	1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	2.90	U	2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	0.58	U	0.58	5.00	ug/L
103-33-3	Azobenzene	0.81	U	0.81	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	0.40	U	0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	0.52	U	0.52	5.00	ug/L
1912-24-9	Atrazine	1.00	U	1.00	5.00	ug/L
87-86-5	Pentachlorophenol	1.60	U	1.60	10.0	ug/L
85-01-8	Phenanthrene	0.50	U	0.50	5.00	ug/L
120-12-7	Anthracene	0.61	U	0.61	5.00	ug/L
86-74-8	Carbazole	0.72	U	0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	1.20	U	1.20	5.00	ug/L
206-44-0	Fluoranthene	0.82	U	0.82	5.00	ug/L
92-87-5	Benzidine	4.30	U	4.30	10.0	ug/L
129-00-0	Pyrene	0.50	U	0.50	5.00	ug/L

Raw Data: **BF143831.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:	
Project:	RFP 916			Date Received:	
Client Sample ID:	PB169880BL			SDG No.:	Q3177
Lab Sample ID:	PB169880BL			Matrix:	Water
Analytical Method:	8270E			% Solid:	0
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000 uL
Soil Aliquot Vol:			uL	Test:	SPLP BNA
Extraction Type :			Decanted : N	Level :	LOW
Injection Volume :			GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :					

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143831.D	1	09/29/25 08:42	09/30/25 14:05	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
85-68-7	Butylbenzylphthalate	1.90	U	1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	0.93	U	0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	0.45	U	0.45	5.00	ug/L
218-01-9	Chrysene	0.44	U	0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	1.60	U	1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	2.30	U	2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	0.49	U	0.49	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	0.48	U	0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	0.55	U	0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	0.59	U	0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	0.67	U	0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	0.69	U	0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	0.52	U	0.52	5.00	ug/L
123-91-1	1,4-Dioxane	1.00	U	1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	0.72	U	0.72	5.00	ug/L
90-12-0	1-Methylnaphthalene	0.66	U	0.66	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	103		23 - 138	68%	SPK: 150
13127-88-3	Phenol-d6	105		10 - 134	70%	SPK: 150
4165-60-0	Nitrobenzene-d5	74.1		67 - 132	74%	SPK: 100
321-60-8	2-Fluorobiphenyl	73.6		52 - 132	74%	SPK: 100
118-79-6	2,4,6-Tribromophenol	109		44 - 137	73%	SPK: 150
1718-51-0	Terphenyl-d14	91.7		42 - 152	92%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	156000	6.886			
1146-65-2	Naphthalene-d8	604000	8.169			
15067-26-2	Acenaphthene-d10	317000	9.922			
1517-22-2	Phenanthrene-d10	516000	11.41			
1719-03-5	Chrysene-d12	434000	14.057			
1520-96-3	Perylene-d12	602000	15.539			

Raw Data: **BF143831.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:			
Project:	RFP 916			Date Received:			
Client Sample ID:	PB169880BL			SDG No.:	Q3177		
Lab Sample ID:	PB169880BL			Matrix:	Water		
Analytical Method:	8270E			% Solid:	0		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000		uL
Soil Aliquot Vol:			uL	Test:	SPLP BNA		
Extraction Type :		Decanted :	N	Level :	LOW		
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N	PH :	
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143831.D	1	09/29/25 08:42	09/30/25 14:05	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143831.D
Acq On : 30 Sep 2025 14:05
Operator : RC/JU
Sample : PB169880BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB169880BL

Quant Time: Sep 30 14:26:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

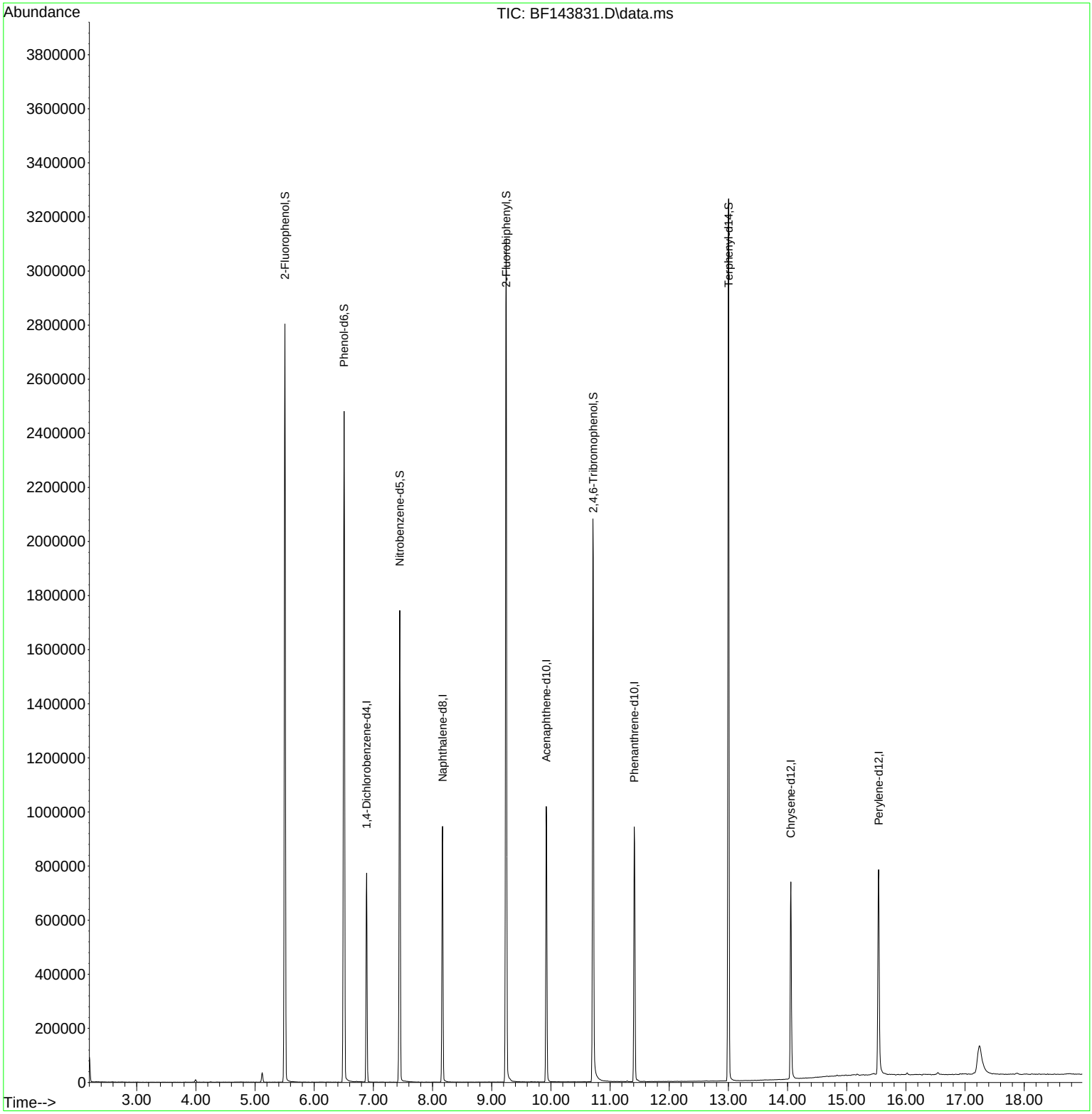
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.886	152	156353	20.000	ng	0.00
21) Naphthalene-d8	8.169	136	604209	20.000	ng	0.00
39) Acenaphthene-d10	9.922	164	316969	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	515687	20.000	ng	0.00
76) Chrysene-d12	14.057	240	433966	20.000	ng	0.00
86) Perylene-d12	15.539	264	601939	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	986908	102.552	ng	0.00
7) Phenol-d6	6.504	99	1170601	105.276	ng	0.00
23) Nitrobenzene-d5	7.445	82	731091	74.066	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	511811	109.053	ng	0.00
45) 2-Fluorobiphenyl	9.245	172	1495704	73.636	ng	0.00
79) Terphenyl-d14	13.004	244	1957244	91.725	ng	0.00
Target Compounds						Qvalue

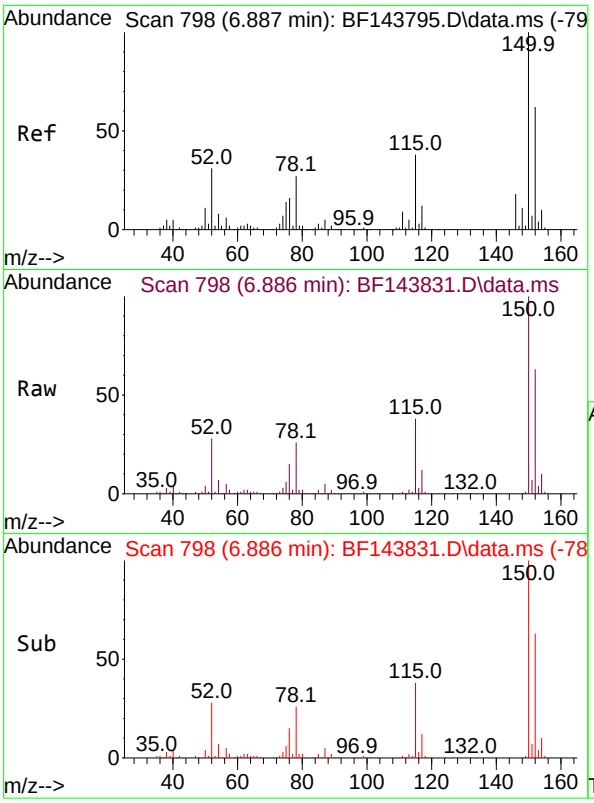
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143831.D
Acq On : 30 Sep 2025 14:05
Operator : RC/JU
Sample : PB169880BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB169880BL

Quant Time: Sep 30 14:26:30 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration



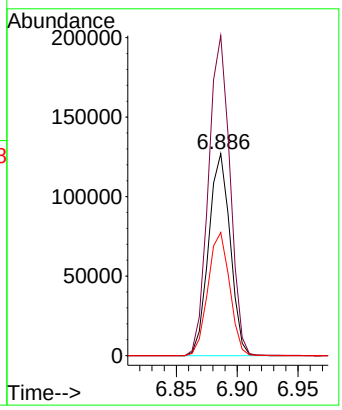


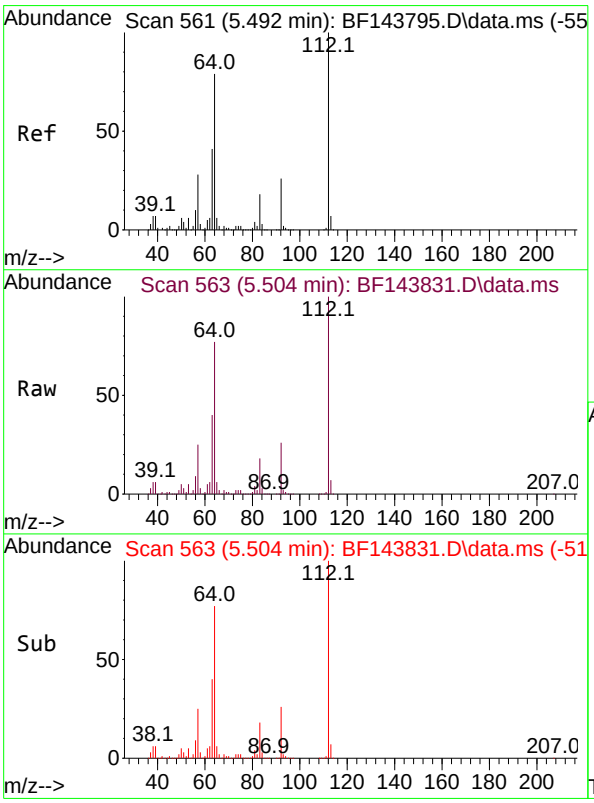
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 79
Delta R.T. -0.001 min
Lab File: BF143831.D
Acq: 30 Sep 2025 14:05

Instrument :
BNA_F
ClientSampleId :
PB169880BL

Tgt Ion:152 Resp: 156353

Ion	Ratio	Lower	Upper
152	100		
150	158.4	129.6	194.4
115	60.9	49.0	73.4

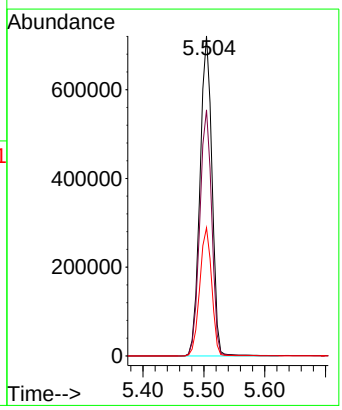


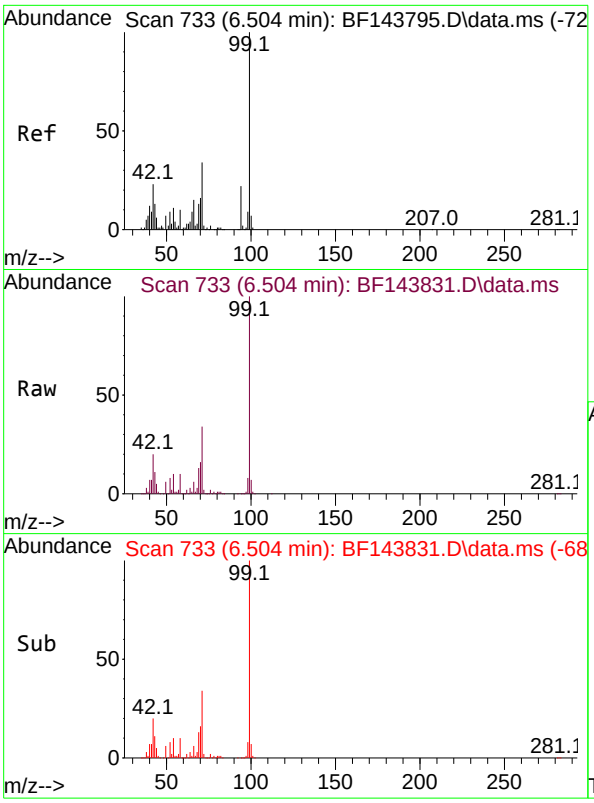


#5
2-Fluorophenol
Concen: 102.552 ng
RT: 5.504 min Scan# 563
Delta R.T. 0.006 min
Lab File: BF143831.D
Acq: 30 Sep 2025 14:05

Tgt Ion:112 Resp: 986908

Ion	Ratio	Lower	Upper
112	100		
64	76.9	63.0	94.4
63	40.0	32.6	49.0



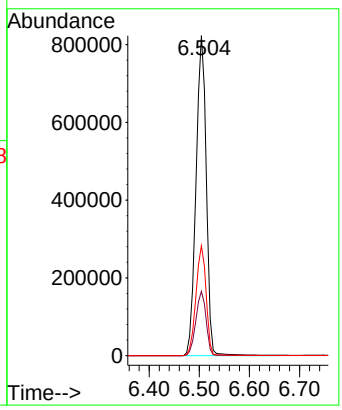


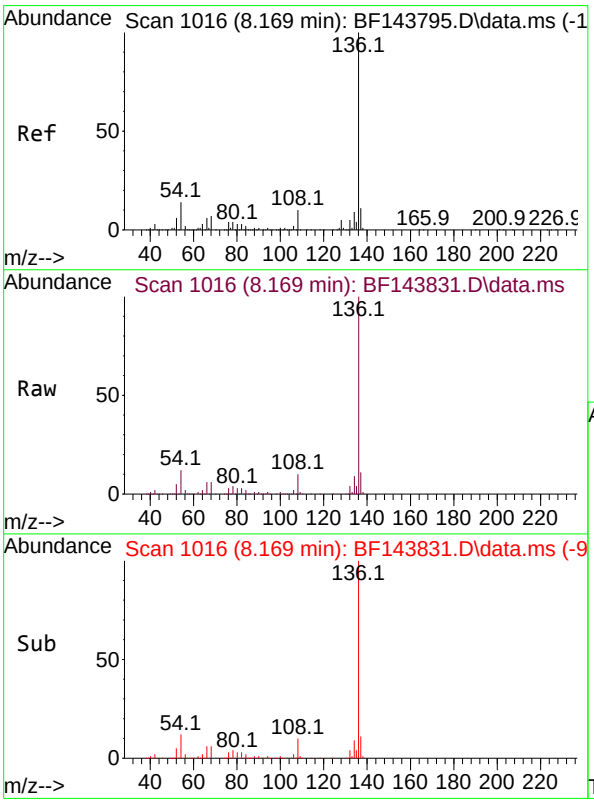
#7
Phenol-d6
Concen: 105.276 ng
RT: 6.504 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143831.D
Acq: 30 Sep 2025 14:05

Instrument :
BNA_F
ClientSampleId :
PB169880BL

Tgt Ion: 99 Resp: 1170601

Ion	Ratio	Lower	Upper
99	100		
42	20.1	18.6	28.0
71	34.3	27.0	40.4

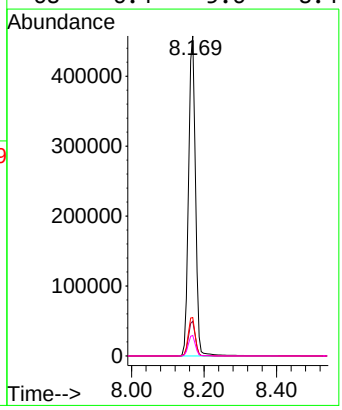


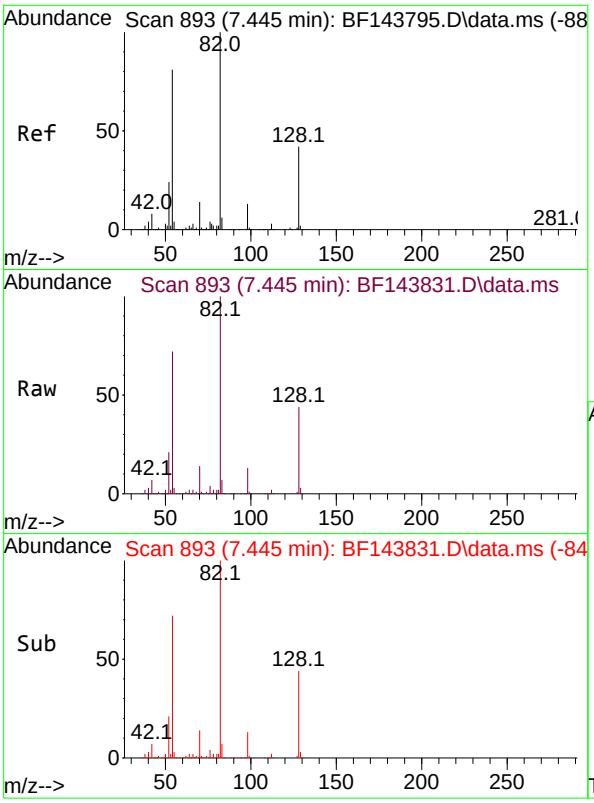


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1016
Delta R.T. -0.000 min
Lab File: BF143831.D
Acq: 30 Sep 2025 14:05

Tgt Ion:136 Resp: 604209

Ion	Ratio	Lower	Upper
136	100		
137	10.8	9.0	13.4
54	12.0	11.2	16.8
68	6.4	5.6	8.4



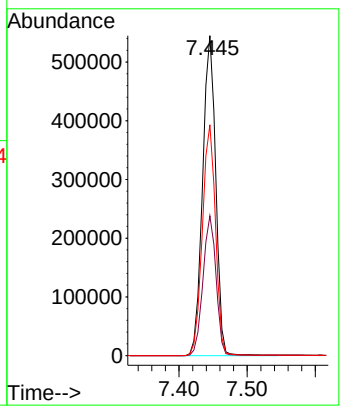


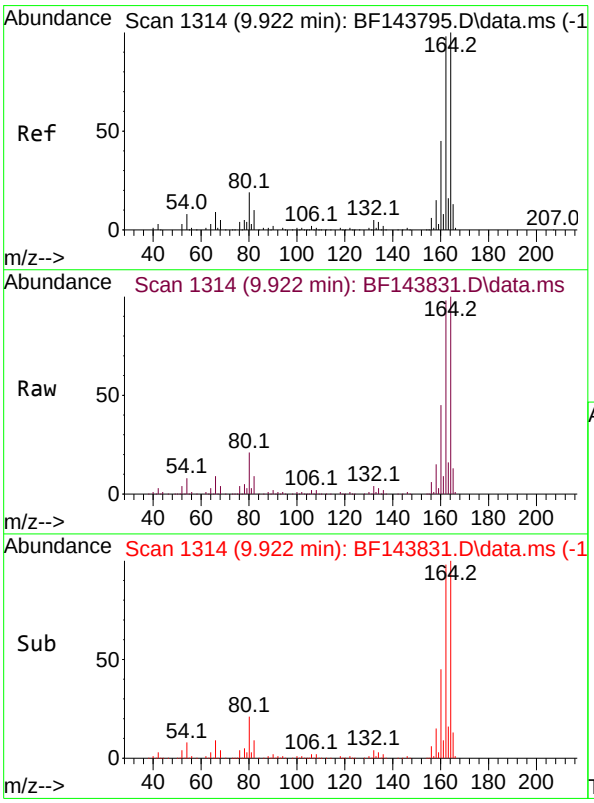
#23
Nitrobenzene-d5
Concen: 74.066 ng
RT: 7.445 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF143831.D
Acq: 30 Sep 2025 14:05

Instrument :
BNA_F
ClientSampleId :
PB169880BL

Tgt Ion: 82 Resp: 731091

Ion	Ratio	Lower	Upper
82	100		
128	43.7	33.3	49.9
54	72.1	64.2	96.4

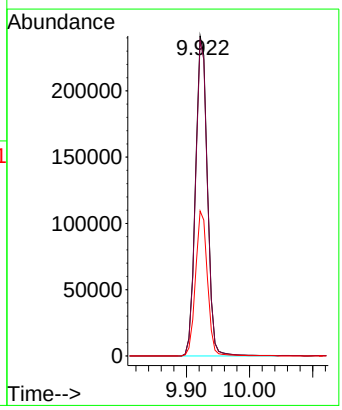


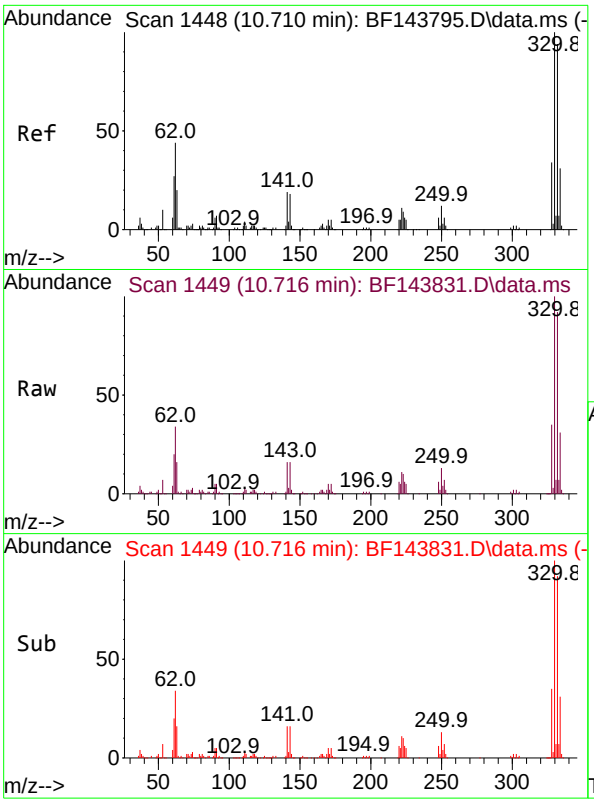


#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1314
Delta R.T. -0.006 min
Lab File: BF143831.D
Acq: 30 Sep 2025 14:05

Tgt Ion:164 Resp: 316969

Ion	Ratio	Lower	Upper
164	100		
162	98.4	78.8	118.2
160	45.3	35.8	53.6



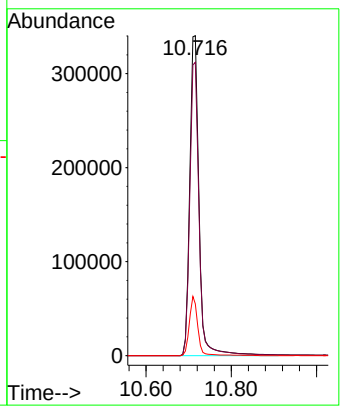


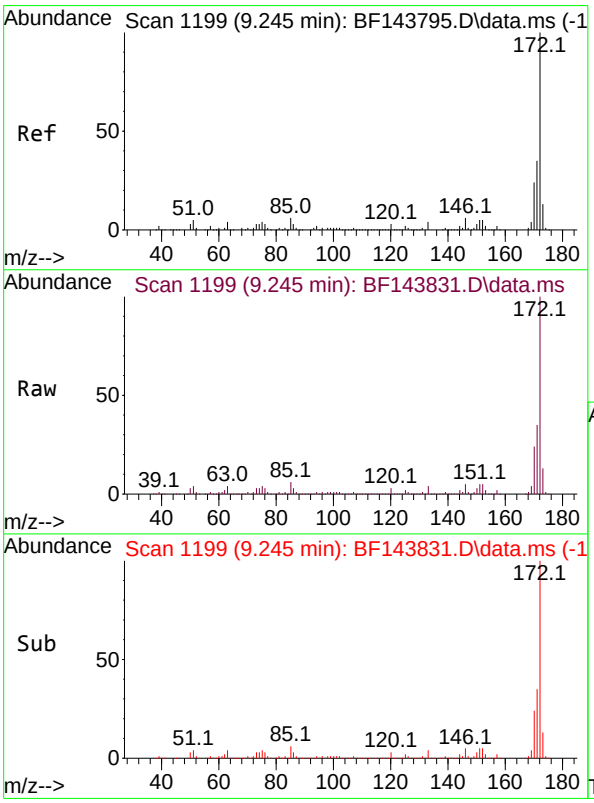
#42
2,4,6-Tribromophenol
Concen: 109.053 ng
RT: 10.716 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143831.D
Acq: 30 Sep 2025 14:05

Instrument :
BNA_F
ClientSampleId :
PB169880BL

Tgt Ion:330 Resp: 511811

Ion	Ratio	Lower	Upper
330	100		
332	93.0	74.7	112.1
141	17.0	14.3	21.5

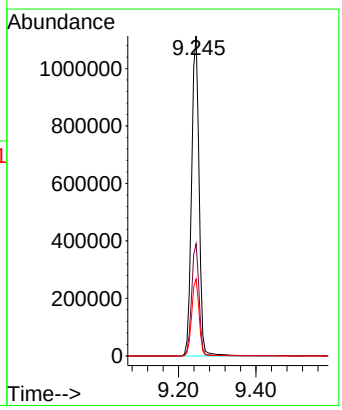


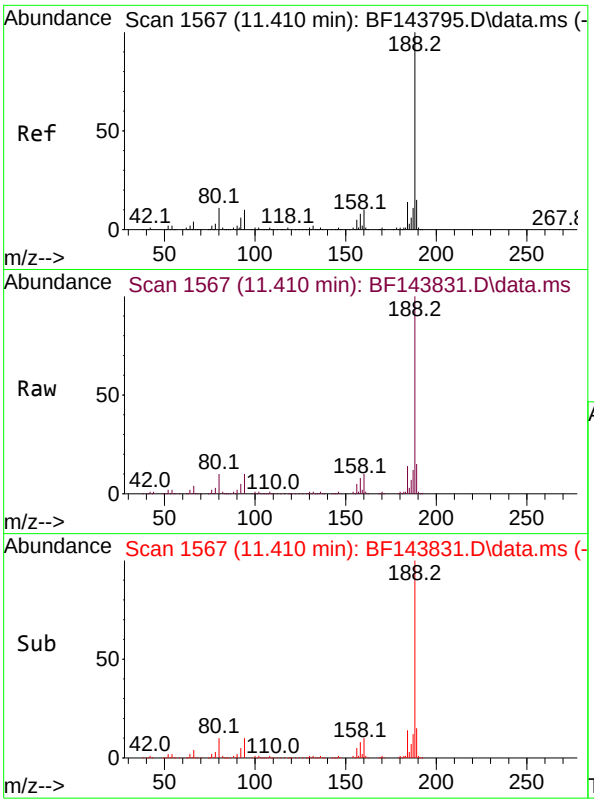


#45
2-Fluorobiphenyl
Concen: 73.636 ng
RT: 9.245 min Scan# 1199
Delta R.T. 0.000 min
Lab File: BF143831.D
Acq: 30 Sep 2025 14:05

Tgt Ion:172 Resp: 1495704

Ion	Ratio	Lower	Upper
172	100		
171	35.0	27.9	41.9
170	24.0	19.1	28.7



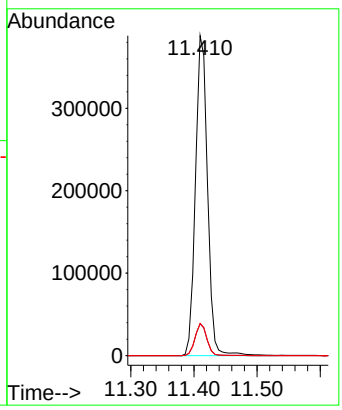


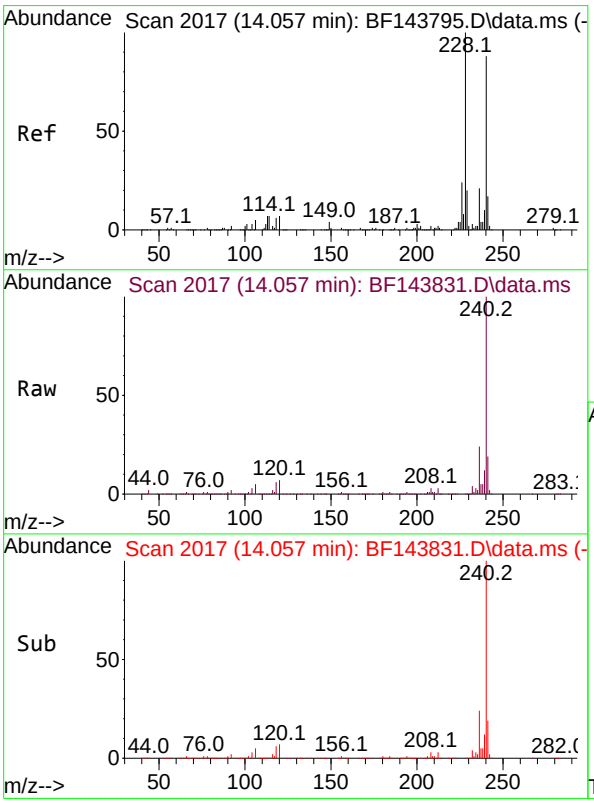
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.410 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143831.D
Acq: 30 Sep 2025 14:05

Instrument :
BNA_F
ClientSampleId :
PB169880BL

Tgt Ion:188 Resp: 515687

Ion	Ratio	Lower	Upper
188	100		
94	9.9	8.2	12.2
80	10.1	8.6	12.8

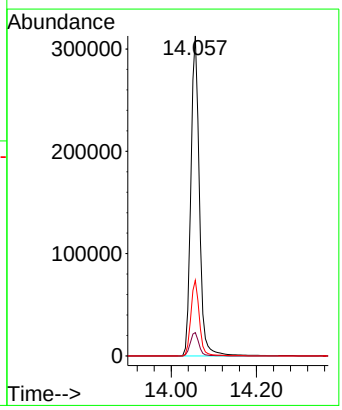


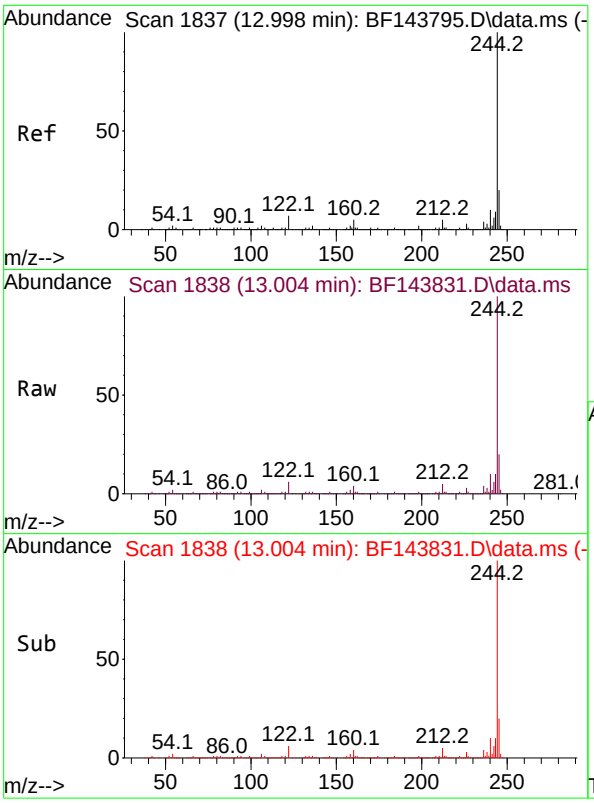


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143831.D
Acq: 30 Sep 2025 14:05

Tgt Ion:240 Resp: 433966

Ion	Ratio	Lower	Upper
240	100		
120	7.3	6.2	9.4
236	23.6	19.4	29.2



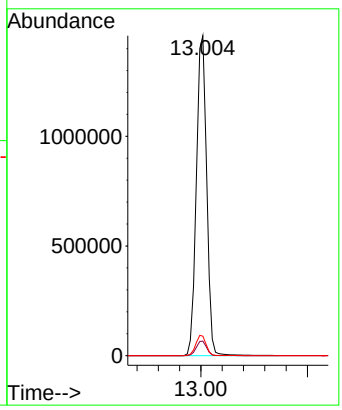


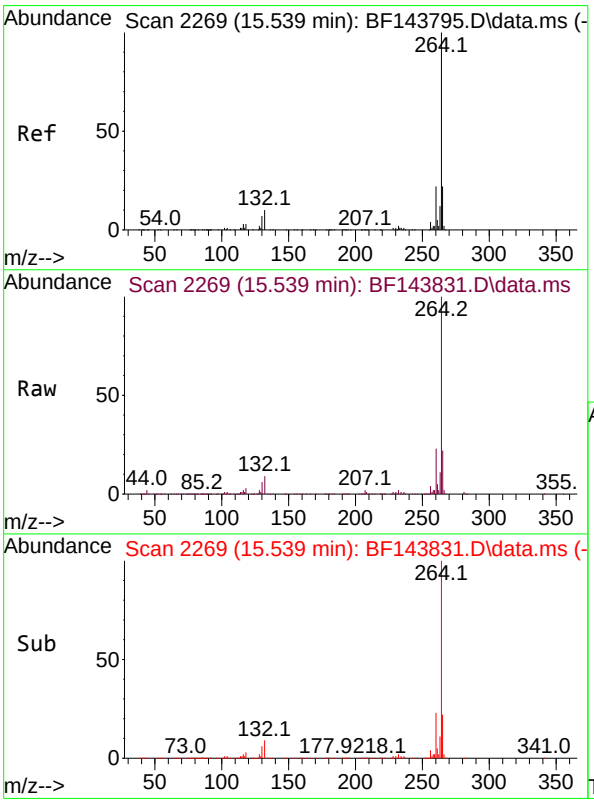
#79
Terphenyl-d14
Concen: 91.725 ng
RT: 13.004 min Scan# 18
Delta R.T. -0.000 min
Lab File: BF143831.D
Acq: 30 Sep 2025 14:05

Instrument :
BNA_F
ClientSampleId :
PB169880BL

Tgt Ion:244 Resp: 1957244

Ion	Ratio	Lower	Upper
244	100		
212	4.5	3.9	5.9
122	6.1	5.6	8.4

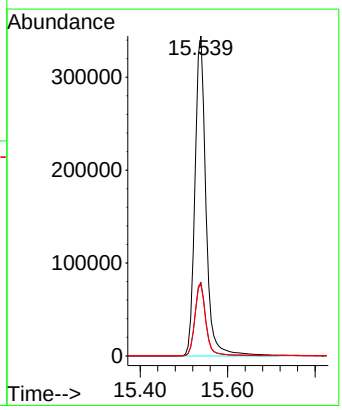




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2269
Delta R.T. -0.000 min
Lab File: BF143831.D
Acq: 30 Sep 2025 14:05

Tgt Ion:264 Resp: 601939

Ion	Ratio	Lower	Upper
264	100		
260	22.9	17.9	26.9
265	22.3	17.7	26.5



Raw Data: **BF143832.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 916	Date Received:	
Client Sample ID:	PB169880BS	SDG No.:	Q3177
Lab Sample ID:	PB169880BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143832.D	1	09/29/25 08:42	09/30/25 14:34	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
62-75-9	n-Nitrosodimethylamine	38.2		0.86	10.0	ug/L
110-86-1	Pyridine	36.6		1.30	5.00	ug/L
100-52-7	Benzaldehyde	26.7		3.90	10.0	ug/L
62-53-3	Aniline	34.9		1.50	5.00	ug/L
108-95-2	Phenol	42.5		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	41.6		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	42.4		0.58	5.00	ug/L
100-51-6	Benzyl Alcohol	46.8		1.60	10.0	ug/L
95-48-7	2-Methylphenol	44.0		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	36.5		1.30	5.00	ug/L
98-86-2	Acetophenone	46.3		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	42.1		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	42.9		1.40	2.50	ug/L
67-72-1	Hexachloroethane	40.9		0.65	5.00	ug/L
98-95-3	Nitrobenzene	43.4		0.76	5.00	ug/L
78-59-1	Isophorone	45.7		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	49.7		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	47.6		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	43.1		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	44.8		0.52	5.00	ug/L
65-85-0	Benzoic acid	62.8		4.20	10.0	ug/L
91-20-3	Naphthalene	41.7		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	26.1		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	45.3		0.54	5.00	ug/L
105-60-2	Caprolactam	52.3		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	46.2		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	40.2		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	110	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	46.6		0.51	5.00	ug/L

Raw Data: **BF143832.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 916	Date Received:	
Client Sample ID:	PB169880BS	SDG No.:	Q3177
Lab Sample ID:	PB169880BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143832.D	1	09/29/25 08:42	09/30/25 14:34	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-95-4	2,4,5-Trichlorophenol	46.3		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	45.1		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	41.0		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	50.2		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	45.2		0.61	5.00	ug/L
208-96-8	Acenaphthylene	47.5		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	58.2		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	35.5		1.10	5.00	ug/L
83-32-9	Acenaphthene	44.5		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	97.5	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	91.4	E	2.40	10.0	ug/L
132-64-9	Dibenzofuran	42.8		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	51.2		1.20	5.00	ug/L
84-66-2	Diethylphthalate	45.3		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	45.0		0.68	5.00	ug/L
86-73-7	Fluorene	43.7		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	49.7		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	56.3		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	45.0		0.58	5.00	ug/L
103-33-3	Azobenzene	43.2		0.81	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	49.6		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	50.1		0.52	5.00	ug/L
1912-24-9	Atrazine	49.1		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	42.9		0.50	5.00	ug/L
120-12-7	Anthracene	43.7		0.61	5.00	ug/L
86-74-8	Carbazole	43.2		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	44.5		1.20	5.00	ug/L
206-44-0	Fluoranthene	43.0		0.82	5.00	ug/L
92-87-5	Benzidine	32.3		4.30	10.0	ug/L
129-00-0	Pyrene	49.7		0.50	5.00	ug/L

Raw Data: **BF143832.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	
Project:	RFP 916	Date Received:	
Client Sample ID:	PB169880BS	SDG No.:	Q3177
Lab Sample ID:	PB169880BS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143832.D	1	09/29/25 08:42	09/30/25 14:34	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
85-68-7	Butylbenzylphthalate	50.1		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	31.6		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	45.3		0.45	5.00	ug/L
218-01-9	Chrysene	43.5		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	43.3		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	40.2		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	50.7		0.49	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	39.2		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	47.0		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	48.5		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	48.5		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	50.4		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	46.1		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	35.2		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	54.4		0.72	5.00	ug/L
90-12-0	1-Methylnaphthalene	42.6		0.66	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	108		23 - 138	72%	SPK: 150
13127-88-3	Phenol-d6	112		10 - 134	74%	SPK: 150
4165-60-0	Nitrobenzene-d5	82.5		67 - 132	82%	SPK: 100
321-60-8	2-Fluorobiphenyl	78.5		52 - 132	78%	SPK: 100
118-79-6	2,4,6-Tribromophenol	109		44 - 137	72%	SPK: 150
1718-51-0	Terphenyl-d14	96.8		42 - 152	97%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	177000	6.886			
1146-65-2	Naphthalene-d8	656000	8.169			
15067-26-2	Acenaphthene-d10	351000	9.927			
1517-22-2	Phenanthrene-d10	557000	11.416			
1719-03-5	Chrysene-d12	507000	14.057			
1520-96-3	Perylene-d12	705000	15.539			

Raw Data: **BF143832.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.			Date Collected:			
Project:	RFP 916			Date Received:			
Client Sample ID:	PB169880BS			SDG No.:	Q3177		
Lab Sample ID:	PB169880BS			Matrix:	Water		
Analytical Method:	8270E			% Solid:	0		
Sample Wt/Vol:	1000	Units:	mL	Final Vol:	1000		uL
Soil Aliquot Vol:			uL	Test:	SPLP BNA		
Extraction Type :		Decanted :	N	Level :	LOW		
Injection Volume :		GPC Factor :	1.0	GPC Cleanup :	N	PH :	
Prep Method :							

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143832.D	1	09/29/25 08:42	09/30/25 14:34	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Sample Results: **BF143832.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143832.D
Acq On : 30 Sep 2025 14:34
Operator : RC/JU
Sample : PB169880BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 30 15:00:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB169880BS

Manual Integrations APPROVED
Reviewed By :Rahul Chavli 10/01/2025
Supervised By :Jagrut Upadhyay 10/01/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.886	152	176669	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	656314	20.000	ng		0.00
39) Acenaphthene-d10	9.927	164	351165	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	557066	20.000	ng		0.00
76) Chrysene-d12	14.057	240	507394	20.000	ng		0.00
86) Perylene-d12	15.539	264	705082	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.510	112	1179229	108.445	ng		0.01
7) Phenol-d6	6.510	99	1403407	111.699	ng		0.00
23) Nitrobenzene-d5	7.451	82	884218	82.467	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	564679	108.601	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1765547	78.457	ng		0.00
79) Terphenyl-d14	13.004	244	2414733	96.788	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.746	88	183209	35.201	ng		96
3) Pyridine	3.504	79	514208	36.600	ng		91
4) n-Nitrosodimethylamine	3.451	42	269097	38.199	ng		81
6) Aniline	6.551	93	636261	34.892	ng		99
8) 2-Chlorophenol	6.669	128	472145	42.413	ng		99
9) Benzaldehyde	6.439	77	293685	26.692	ng		96
10) Phenol	6.528	94	621312	42.544	ng		97
11) bis(2-Chloroethyl)ether	6.622	93	476285	41.605	ng		99
12) 1,3-Dichlorobenzene	6.828	146	540863	41.846	ng		99
13) 1,4-Dichlorobenzene	6.904	146	546388	42.360	ng		99
14) 1,2-Dichlorobenzene	7.057	146	525218	42.993	ng		99
15) Benzyl Alcohol	7.028	79	425095	46.825	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.163	45	991778	36.536	ng		95
17) 2-Methylphenol	7.134	107	378984	43.974	ng		99
18) Hexachloroethane	7.398	117	185474	40.888	ng		96
19) n-Nitroso-di-n-propyla...	7.298	70	346439	42.879	ng		91
20) 3+4-Methylphenols	7.286	107	441729	42.088	ng	#	87
22) Acetophenone	7.298	105	667631	46.315	ng		94
24) Nitrobenzene	7.469	77	515841	43.404	ng		97
25) Isophorone	7.710	82	954071	45.663	ng		98
26) 2-Nitrophenol	7.781	139	242954	49.692	ng		97
27) 2,4-Dimethylphenol	7.816	122	444703	47.619	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	584907	43.088	ng		99
29) 2,4-Dichlorophenol	8.022	162	411379	44.768	ng		99
30) 1,2,4-Trichlorobenzene	8.110	180	441169	46.263	ng		100
31) Naphthalene	8.192	128	1309511	41.679	ng		99
32) Benzoic acid	7.933	122	283073	62.825	ng		94
33) 4-Chloroaniline	8.233	127	288229	26.105	ng		99
34) Hexachlorobutadiene	8.310	225	321858	45.275	ng		99
35) Caprolactam	8.604	113	122936m	52.342	ng		
36) 4-Chloro-3-methylphenol	8.716	107	398398	46.228	ng		99
37) 2-Methylnaphthalene	8.880	142	805789	40.221	ng		100
38) 1-Methylnaphthalene	8.980	142	817017	42.607	ng		98
40) 1,2,4,5-Tetrachloroben...	9.051	216	488569	46.102	ng		99
41) Hexachlorocyclopentadiene	9.039	237	761947	113.446	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	309078	46.577	ng		98

Sample Results: **BF143832.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143832.D
Acq On : 30 Sep 2025 14:34
Operator : RC/JU
Sample : PB169880BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Sep 30 15:00:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB169880BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 10/01/2025
Supervised By :Jagrut Upadhyay 10/01/2025

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.198	196	321107	46.263	ng		97
46) 1,1'-Biphenyl	9.345	154	1146137	45.088	ng		99
47) 2-Chloronaphthalene	9.375	162	839001	41.003	ng		99
48) 2-Nitroaniline	9.463	65	310613	50.226	ng		99
49) Acenaphthylene	9.792	152	1338221	47.508	ng		99
50) Dimethylphthalate	9.645	163	966787	45.170	ng		100
51) 2,6-Dinitrotoluene	9.710	165	204518	58.158	ng		92
52) Acenaphthene	9.963	154	825025	44.507	ng		100
53) 3-Nitroaniline	9.875	138	151187	35.469	ng		98
54) 2,4-Dinitrophenol	9.980	184	166819	97.461	ng	#	27
55) Dibenzofuran	10.133	168	1122052	42.806	ng		99
56) 4-Nitrophenol	10.033	139	313904	91.386	ng		92
57) 2,4-Dinitrotoluene	10.110	165	268510	51.233	ng		97
58) Fluorene	10.475	166	851254	43.683	ng		99
59) 2,3,4,6-Tetrachlorophenol	10.245	232	323356	54.381	ng		94
60) Diethylphthalate	10.351	149	907832	45.311	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	447042	45.023	ng		95
62) 4-Nitroaniline	10.492	138	199352	49.739	ng		99
63) Azobenzene	10.627	77	913219	43.249	ng		97
65) 4,6-Dinitro-2-methylph...	10.522	198	120529	56.270	ng		81
66) n-Nitrosodiphenylamine	10.586	169	823601	44.956	ng		98
67) 4-Bromophenyl-phenylether	10.957	248	470941	49.607	ng		96
68) Hexachlorobenzene	11.022	284	655868	50.132	ng		99
69) Atrazine	11.110	200	260652	49.132	ng		98
70) Pentachlorophenol	11.216	266	677583	104.047	ng		99
71) Phenanthrene	11.439	178	1227780	42.930	ng		99
72) Anthracene	11.492	178	1254719	43.737	ng		100
73) Carbazole	11.645	167	1083105	43.182	ng		99
74) Di-n-butylphthalate	11.974	149	1283897	44.508	ng		100
75) Fluoranthene	12.627	202	1237804	43.032	ng		99
77) Benzidine	12.751	184	399172	32.285	ng		99
78) Pyrene	12.857	202	1239293	49.680	ng		100
80) Butylbenzylphthalate	13.474	149	432539	50.118	ng		98
81) Benzo(a)anthracene	14.045	228	1233967	45.270	ng		100
82) 3,3'-Dichlorobenzidine	14.010	252	372840	31.573	ng		100
83) Chrysene	14.086	228	1072277	43.474	ng		99
84) Bis(2-ethylhexyl)phtha...	14.039	149	548071	43.324	ng	#	99
85) Di-n-octyl phthalate	14.651	149	922091	40.183	ng	#	94
87) Indeno(1,2,3-cd)pyrene	17.039	276	2595286	48.512	ng		98
88) Benzo(b)fluoranthene	15.104	252	1820049	50.689	ng		99
89) Benzo(k)fluoranthene	15.133	252	1414832	39.221	ng		99
90) Benzo(a)pyrene	15.474	252	1585027	46.962	ng		99
91) Dibenzo(a,h)anthracene	17.056	278	2122139	48.499	ng		99
92) Benzo(g,h,i)perylene	17.492	276	2124276	50.363	ng		98

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

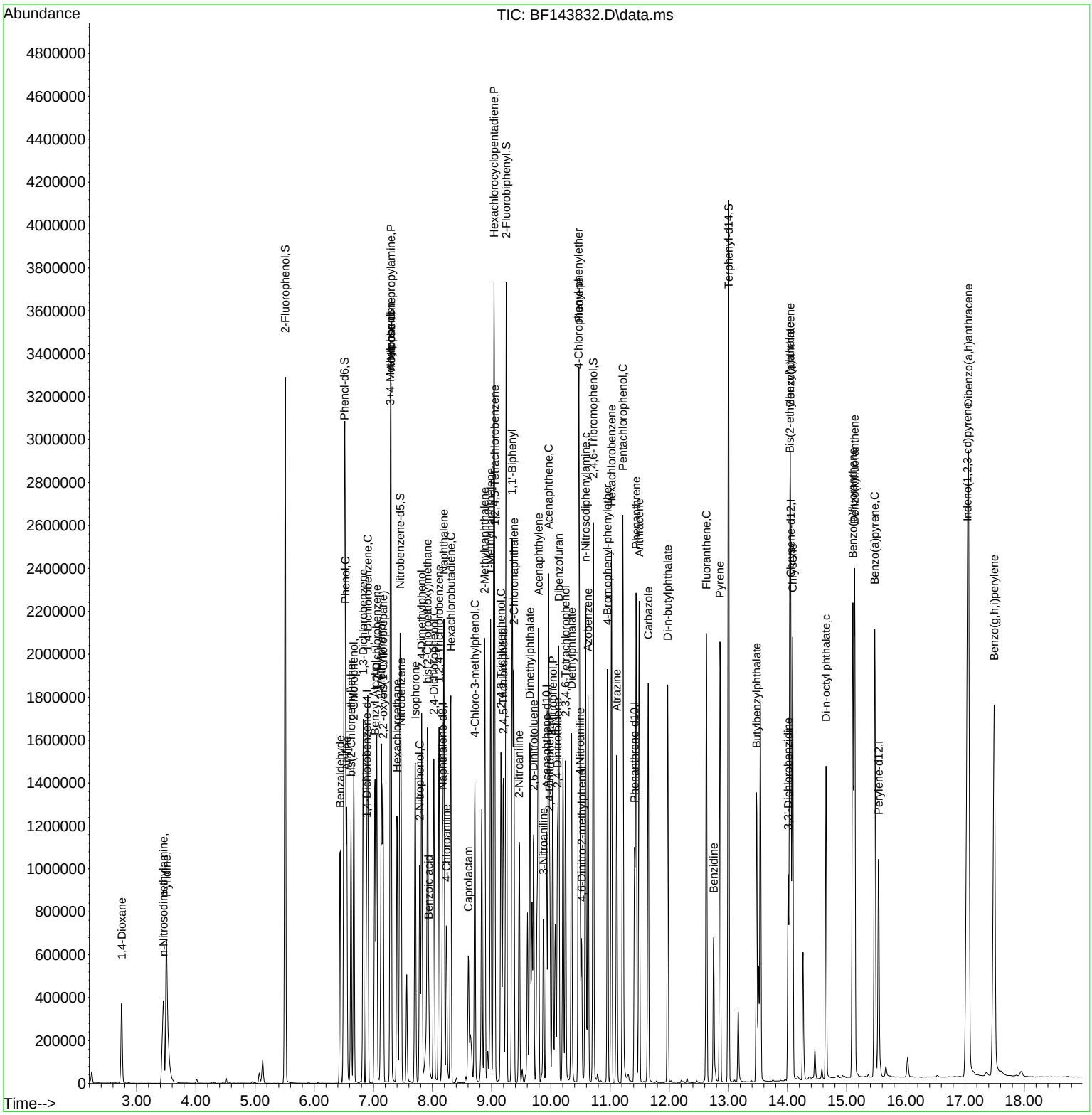
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143832.D
Acq On : 30 Sep 2025 14:34
Operator : RC/JU
Sample : PB169880BS
Misc :
ALS Vial : 4 Sample Multiplier: 1

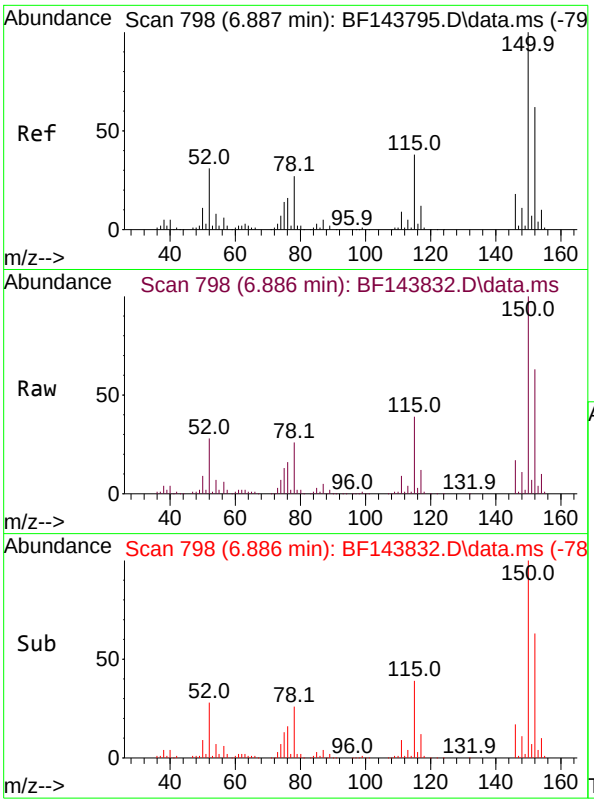
Quant Time: Sep 30 15:00:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

Instrument :
BNA_F
ClientSampleId :
PB169880BS

Manual Integrations APPROVED

Reviewed By :Rahul Chavli 10/01/2025
Supervised By :Jagrut Upadhyay 10/01/2025

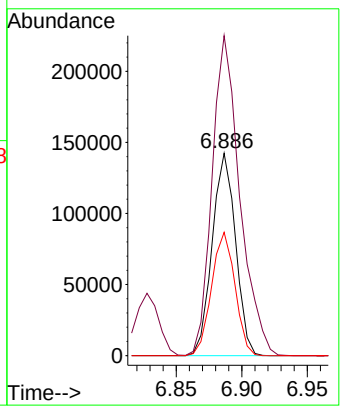




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 79
Delta R.T. -0.001 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:152 Resp: 176669

Ion	Ratio	Lower	Upper
152	100		
150	158.2	129.6	194.4
115	61.0	49.0	73.4



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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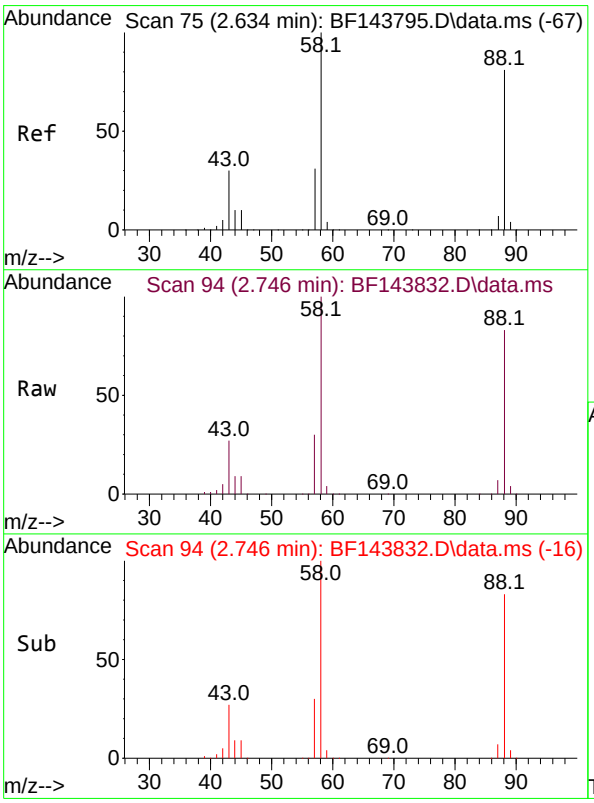
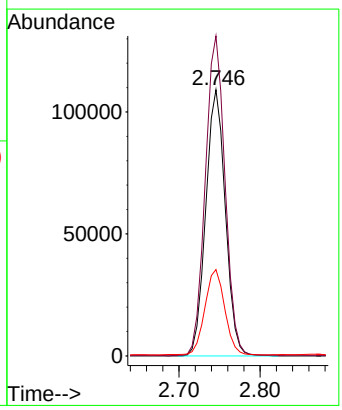
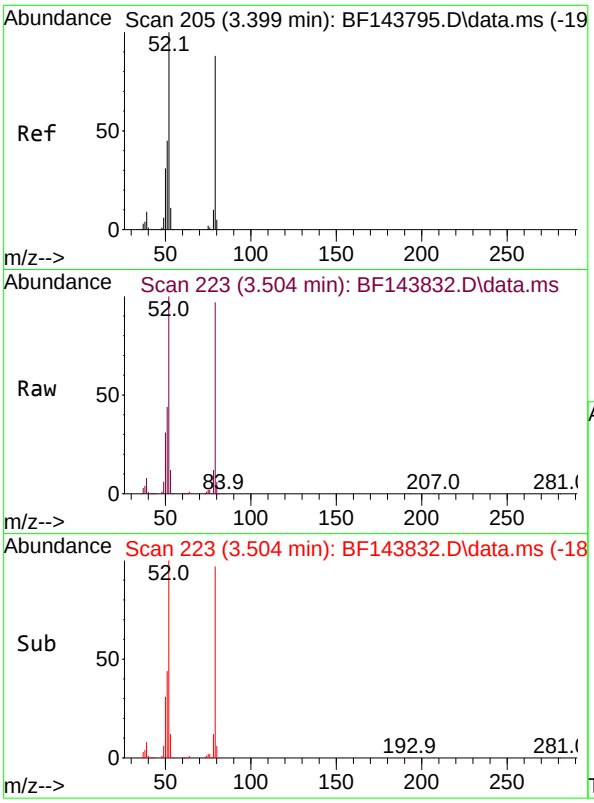


#2
1,4-Dioxane
Concen: 35.201 ng
RT: 2.746 min Scan# 94
Delta R.T. 0.112 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 88 Resp: 183209

Ion	Ratio	Lower	Upper
88	100		
58	121.3	99.4	149.2
43	32.5	30.6	45.8

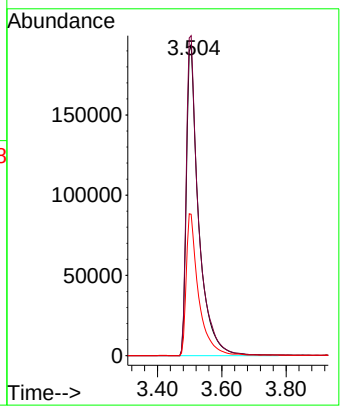




#3
Pyridine
Concen: 36.600 ng
RT: 3.504 min Scan# 2
Delta R.T. 0.106 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 79 Resp: 514208

Ion	Ratio	Lower	Upper
79	100		
52	102.9	90.5	135.7
51	45.5	40.6	61.0



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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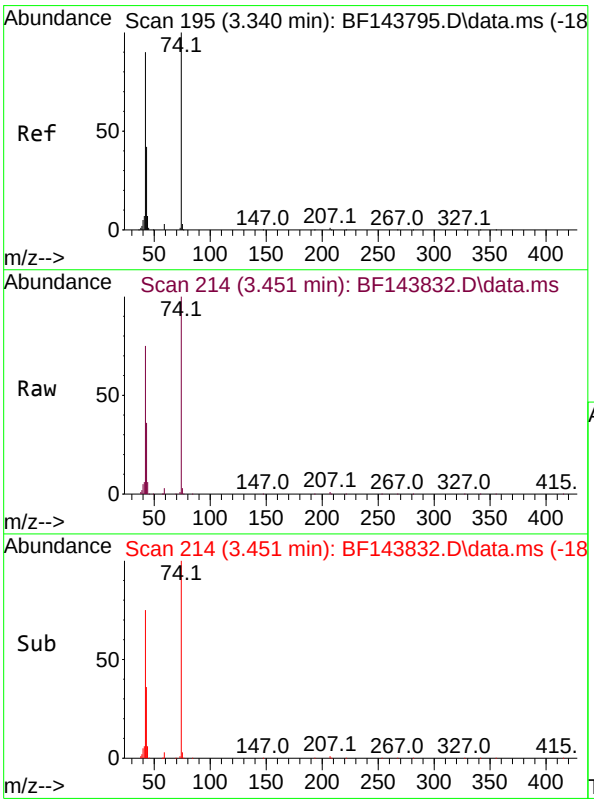
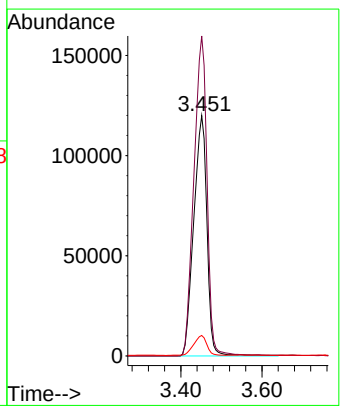
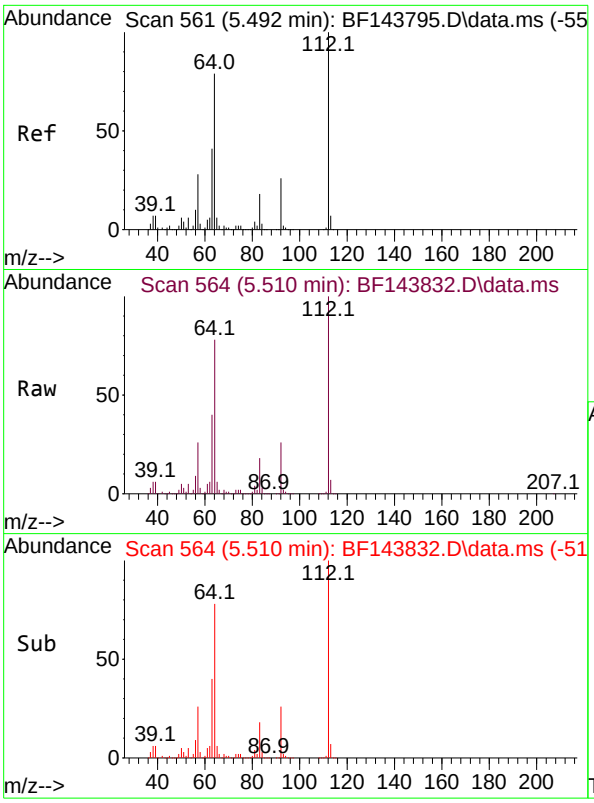


#4
n-Nitrosodimethylamine
Concen: 38.199 ng
RT: 3.451 min Scan# 214
Delta R.T. 0.094 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 42 Resp: 269097

Ion	Ratio	Lower	Upper
42	100		
74	133.2	89.1	133.7
44	8.5	6.4	9.6





#5
2-Fluorophenol
Concen: 108.445 ng
RT: 5.510 min Scan# 5
Delta R.T. 0.012 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:112 Resp: 117922

Ion	Ratio	Lower	Upper
112	100		
64	77.5	63.0	94.4
63	39.9	32.6	49.0

Instrument :
BNA_F
ClientSampleId :
PB169880BS

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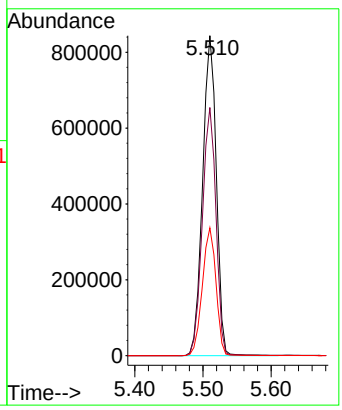
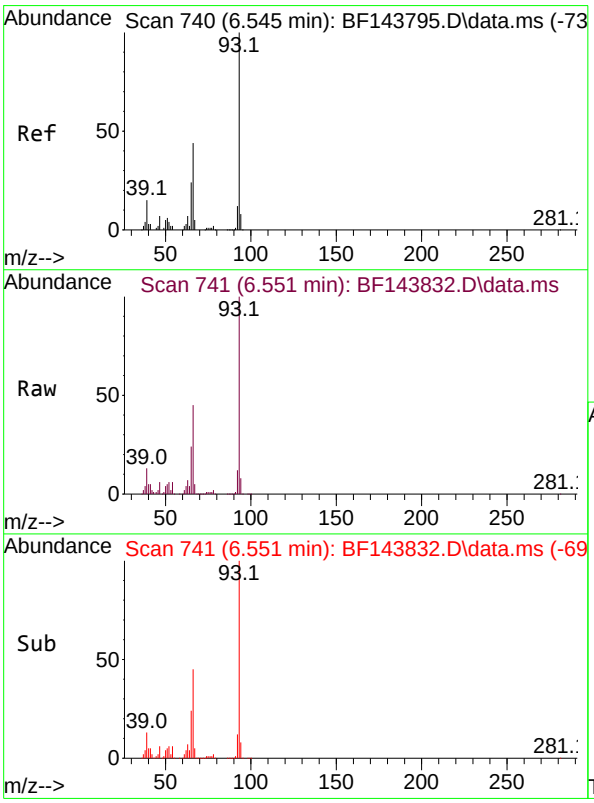
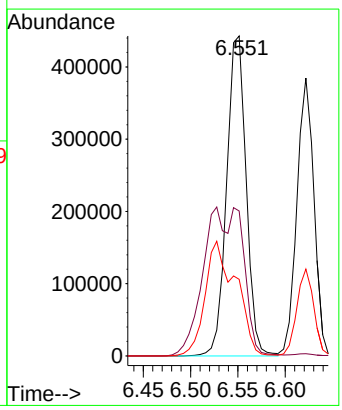


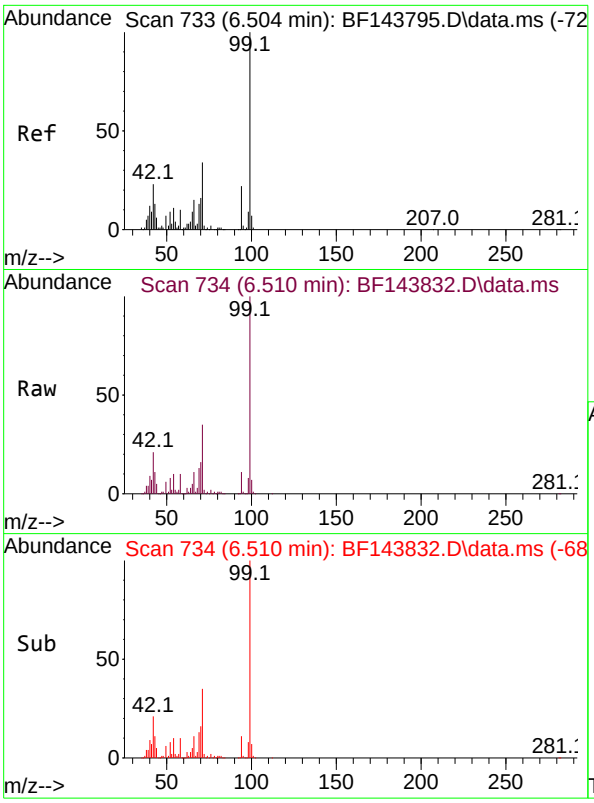


#6
Aniline
Concen: 34.892 ng
RT: 6.551 min Scan# 741
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 93 Resp: 636261

Ion	Ratio	Lower	Upper
93	100		
66	45.3	37.1	55.7
65	23.9	19.4	29.0

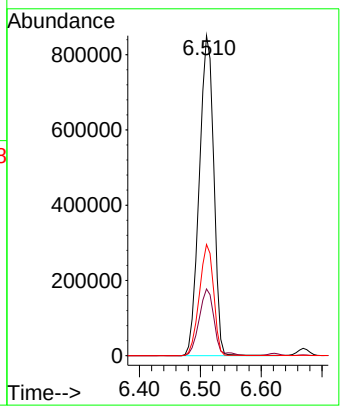




#7
Phenol-d6
Concen: 111.699 ng
RT: 6.510 min Scan# 7
Delta R.T. 0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 99 Resp: 140340

Ion	Ratio	Lower	Upper
99	100		
42	20.8	18.6	28.0
71	34.7	27.0	40.4



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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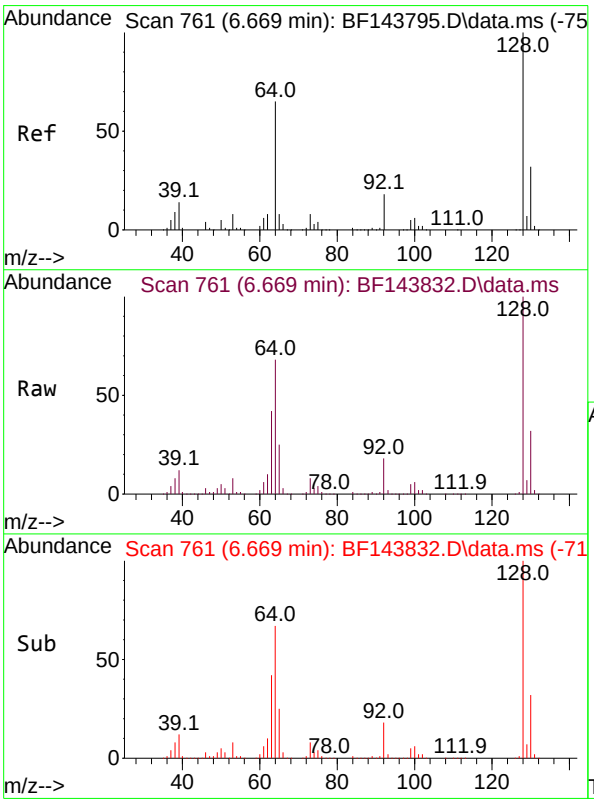
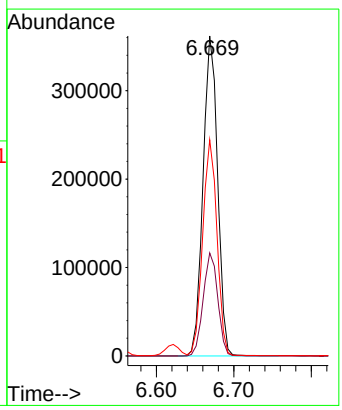
Supervised By :Jagrut Upadhyay 10/01/2025

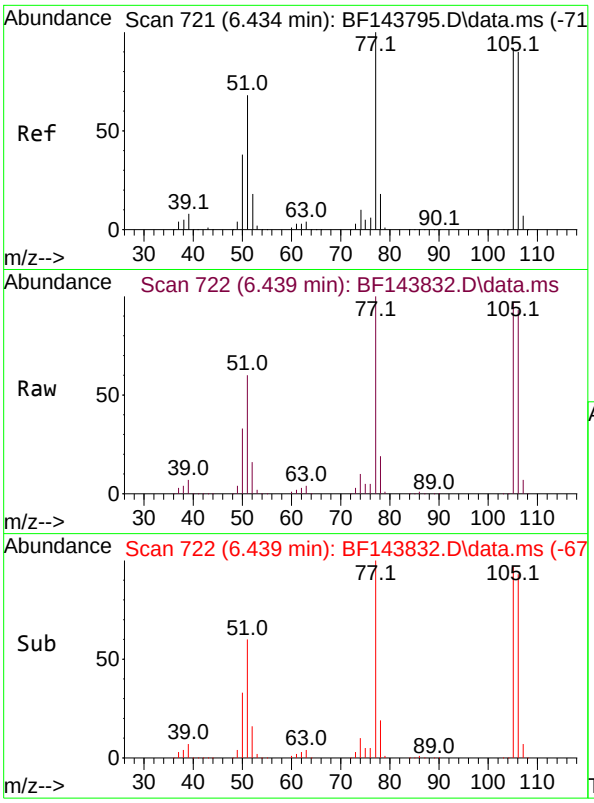


#8
2-Chlorophenol
Concen: 42.413 ng
RT: 6.669 min Scan# 761
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:128 Resp: 472145

Ion	Ratio	Lower	Upper
128	100		
130	32.2	12.2	52.2
64	67.5	46.5	86.5

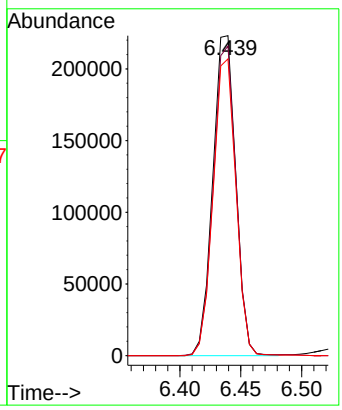




#9
Benzaldehyde
Concen: 26.692 ng
RT: 6.439 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 77 Resp: 29368

Ion	Ratio	Lower	Upper
77	100		
105	96.7	71.8	111.8
106	92.7	69.8	109.8



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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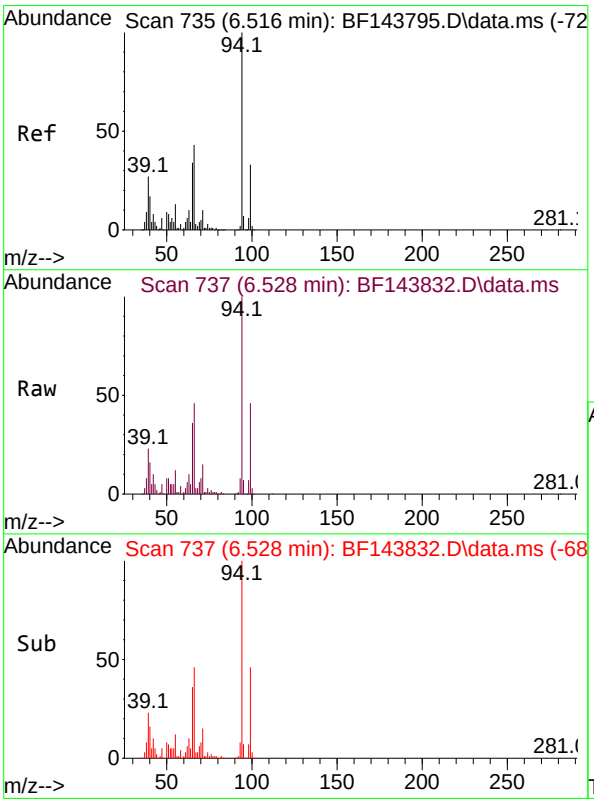
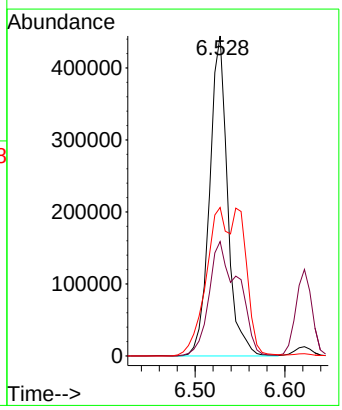
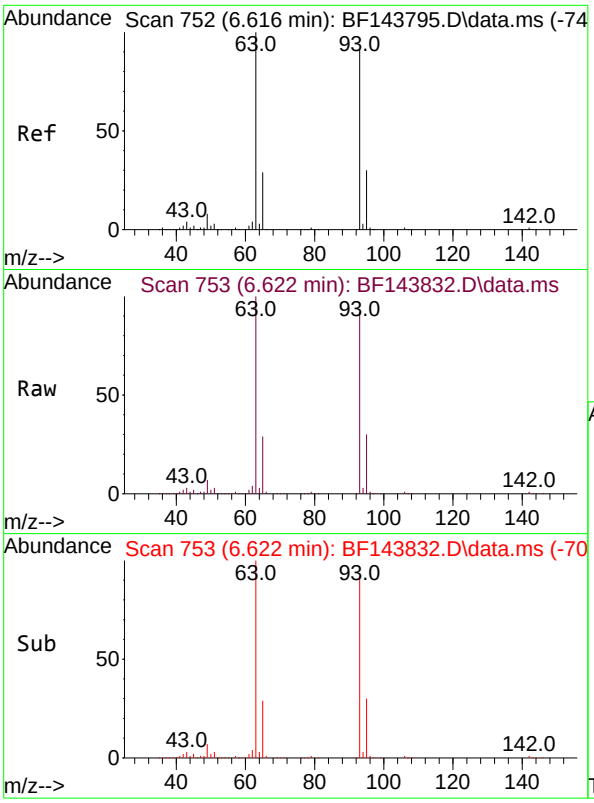


#10
Phenol
Concen: 42.544 ng
RT: 6.528 min Scan# 737
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 94 Resp: 621312

Ion	Ratio	Lower	Upper
94	100		
65	35.7	14.2	54.2
66	46.4	24.1	64.1

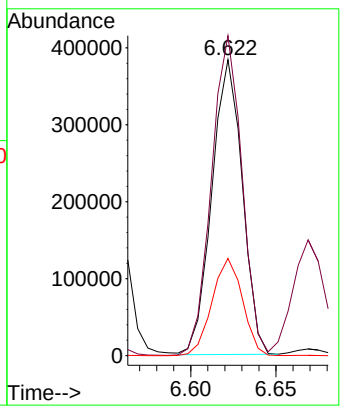




#11
bis(2-Chloroethyl)ether
Concen: 41.605 ng
RT: 6.622 min Scan# 7
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 93 Resp: 47628

Ion	Ratio	Lower	Upper
93	100		
63	108.2	89.2	129.2
95	32.9	12.9	52.9



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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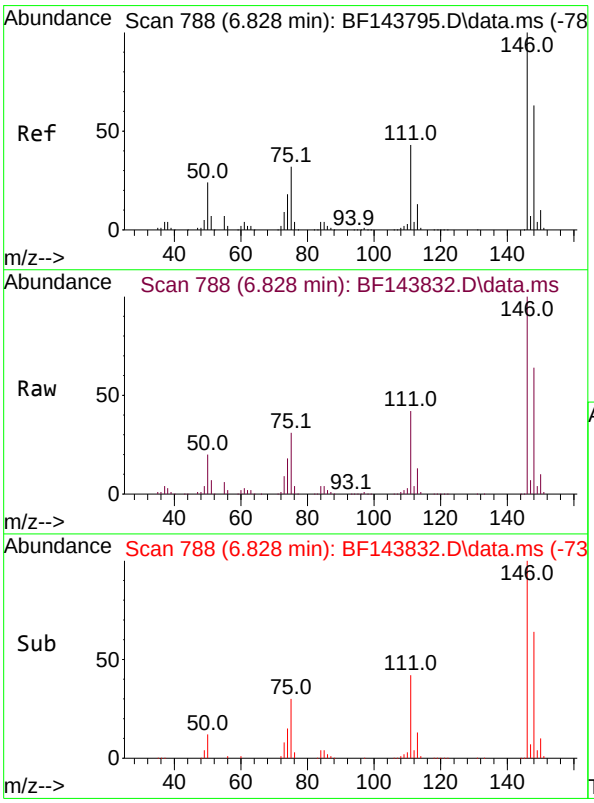
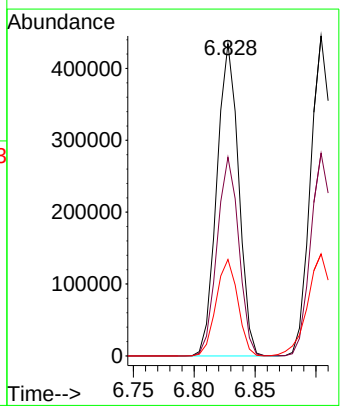
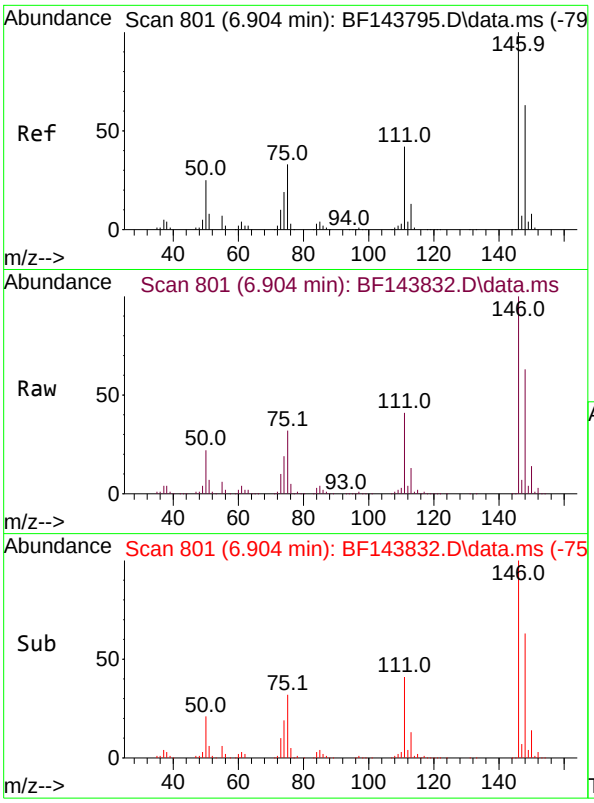


#12
1,3-Dichlorobenzene
Concen: 41.846 ng
RT: 6.828 min Scan# 788
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:146 Resp: 540863

Ion	Ratio	Lower	Upper
146	100		
148	63.6	50.4	75.6
75	30.9	25.6	38.4

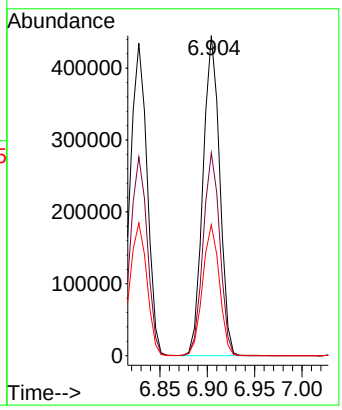




#13
1,4-Dichlorobenzene
Concen: 42.360 ng
RT: 6.904 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:146 Resp: 54638

Ion	Ratio	Lower	Upper
146	100		
148	63.3	50.7	76.1
111	40.9	33.4	50.2



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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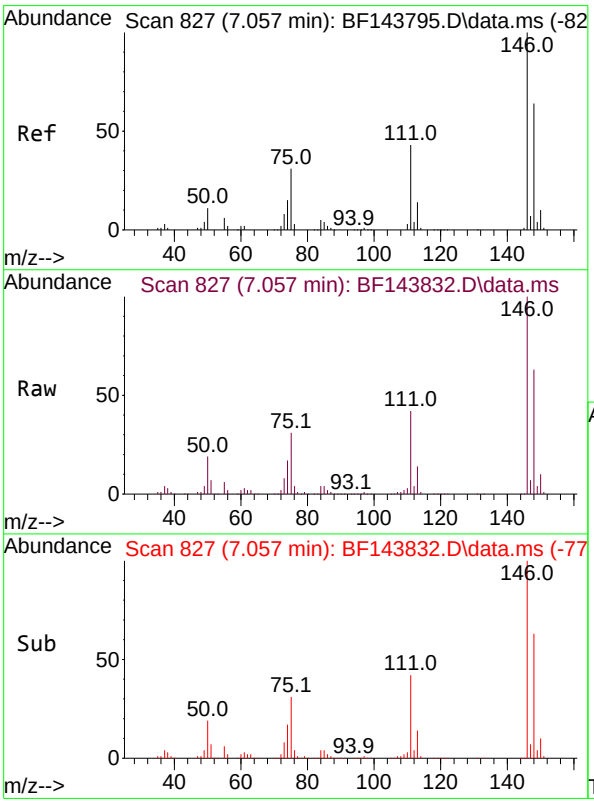
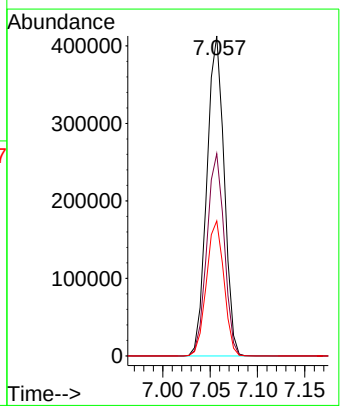
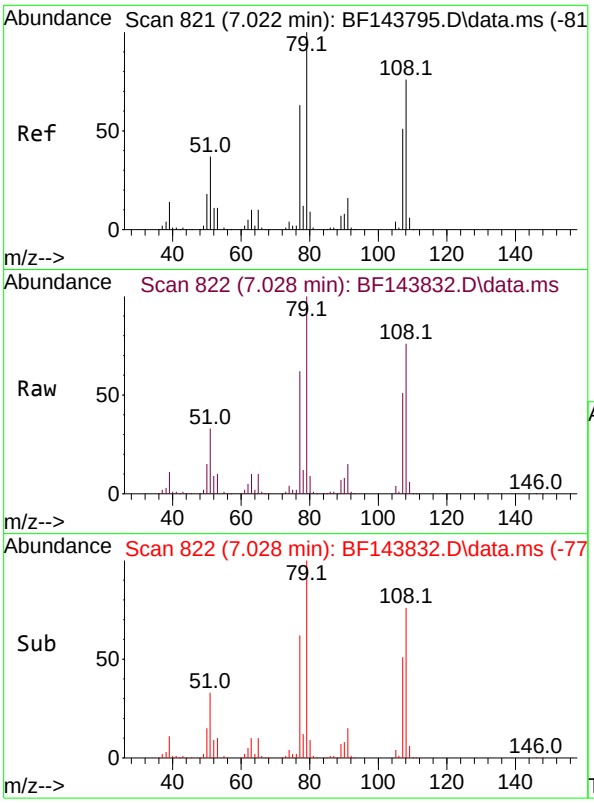


#14
1,2-Dichlorobenzene
Concen: 42.993 ng
RT: 7.057 min Scan# 827
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:146 Resp: 525218

Ion	Ratio	Lower	Upper
146	100		
148	63.2	51.1	76.7
111	42.2	34.3	51.5





#15
Benzyl Alcohol
Concen: 46.825 ng
RT: 7.028 min Scan# 8
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 79 Resp: 42509

Ion	Ratio	Lower	Upper
79	100		
108	76.1	60.5	90.7
77	61.5	50.3	75.5

Instrument :
BNA_F
ClientSampleId :
PB169880BS

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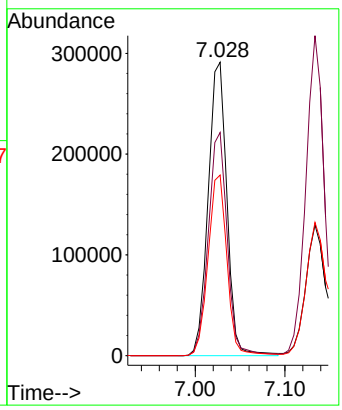
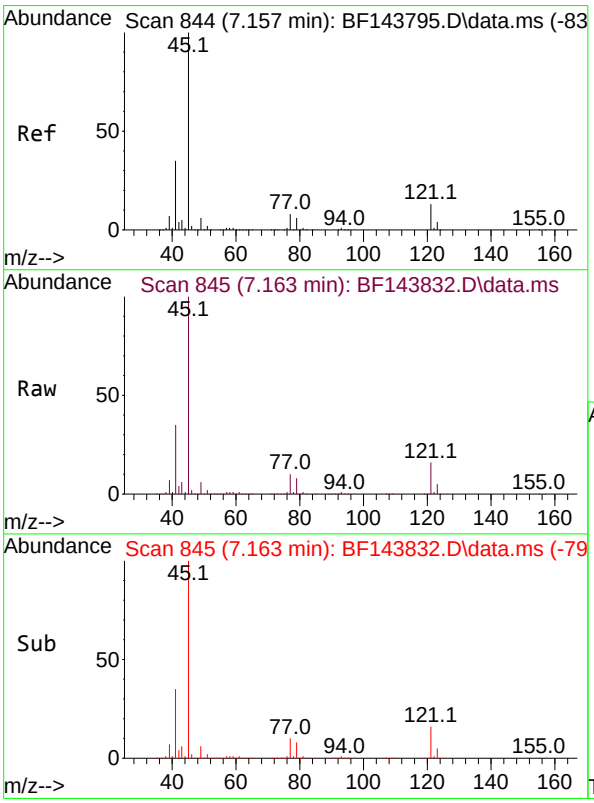
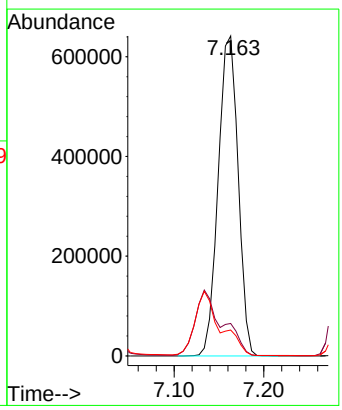


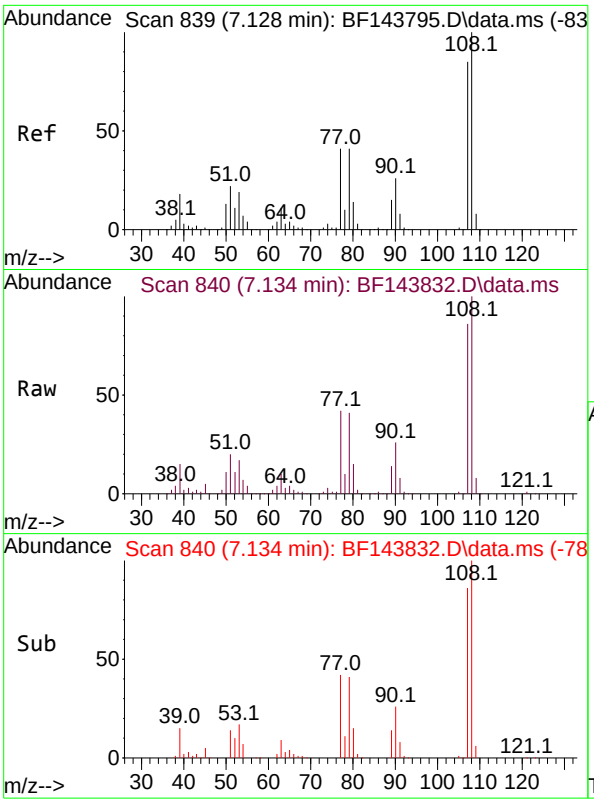


#16
2,2'-oxybis(1-Chloropropane)
Concen: 36.536 ng
RT: 7.163 min Scan# 845
Delta R.T. 0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 45 Resp: 991778

Ion	Ratio	Lower	Upper
45	100		
77	10.2	0.0	28.5
79	8.1	0.0	26.3

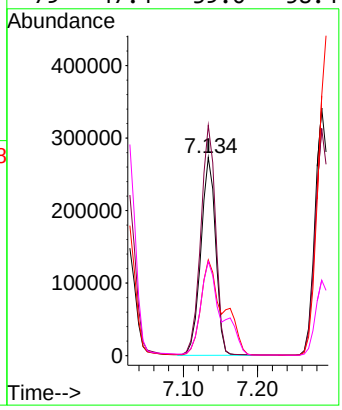




#17
2-Methylphenol
Concen: 43.974 ng
RT: 7.134 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:107 Resp: 37898

Ion	Ratio	Lower	Upper
107	100		
108	116.2	94.2	141.4
77	48.4	38.6	58.0
79	47.4	39.0	58.4



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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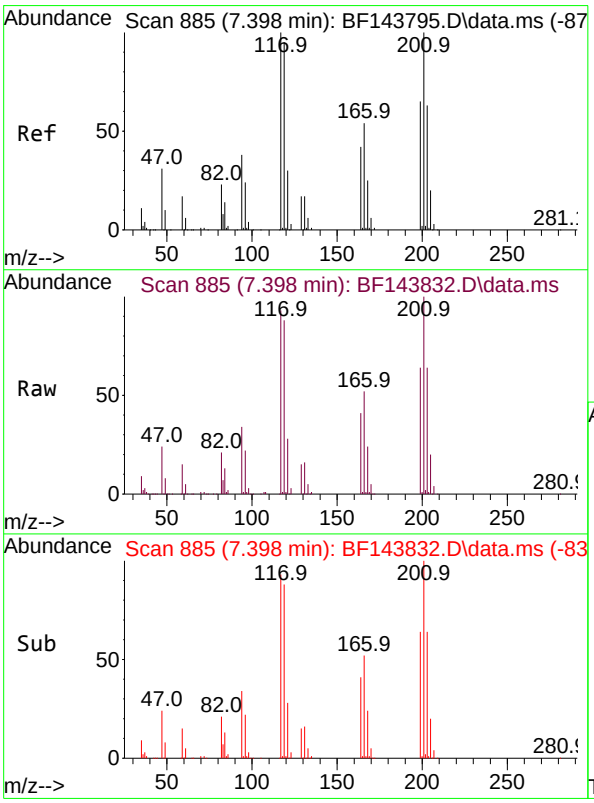
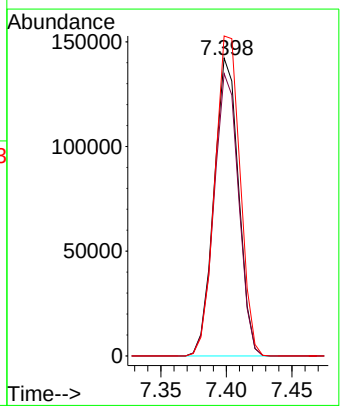
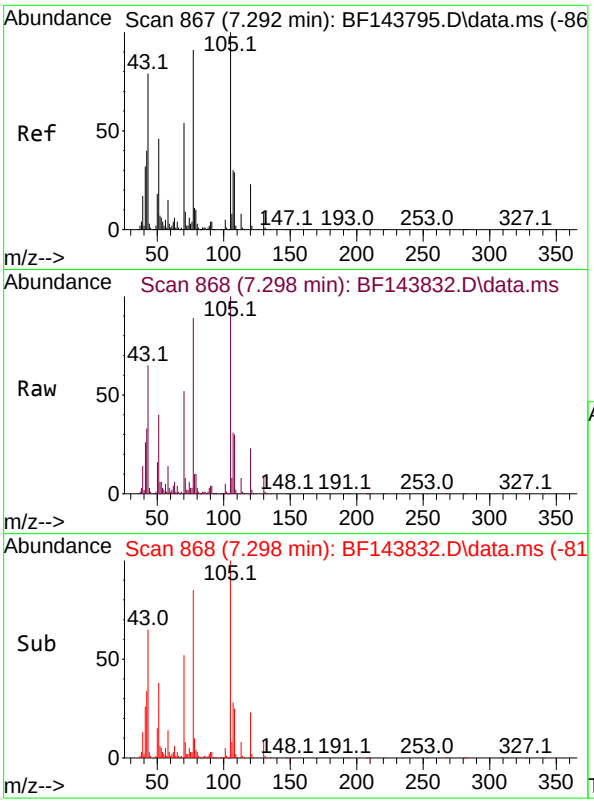


#18
Hexachloroethane
Concen: 40.888 ng
RT: 7.398 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:117 Resp: 185474

Ion	Ratio	Lower	Upper
117	100		
119	94.8	76.2	114.2
201	107.4	79.7	119.5

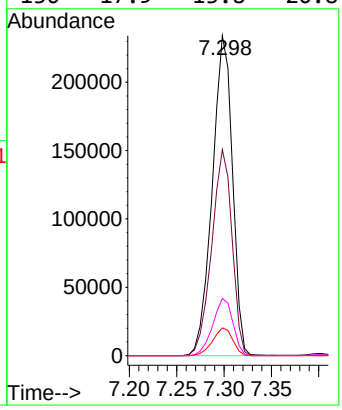




#19
n-Nitroso-di-n-propylamine
Concen: 42.879 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 70 Resp: 34643

Ion	Ratio	Lower	Upper
70	100		
42	64.4	59.4	89.0
101	8.7	7.1	10.7
130	17.9	13.8	20.8



Instrument :
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ClientSampleId :
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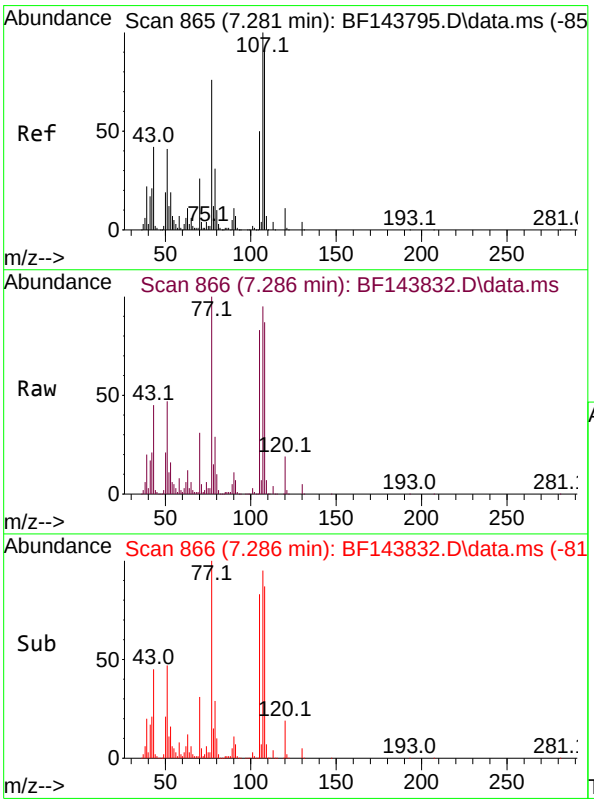
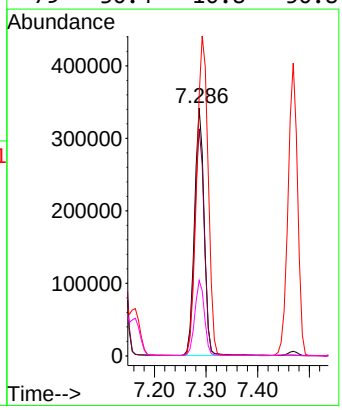
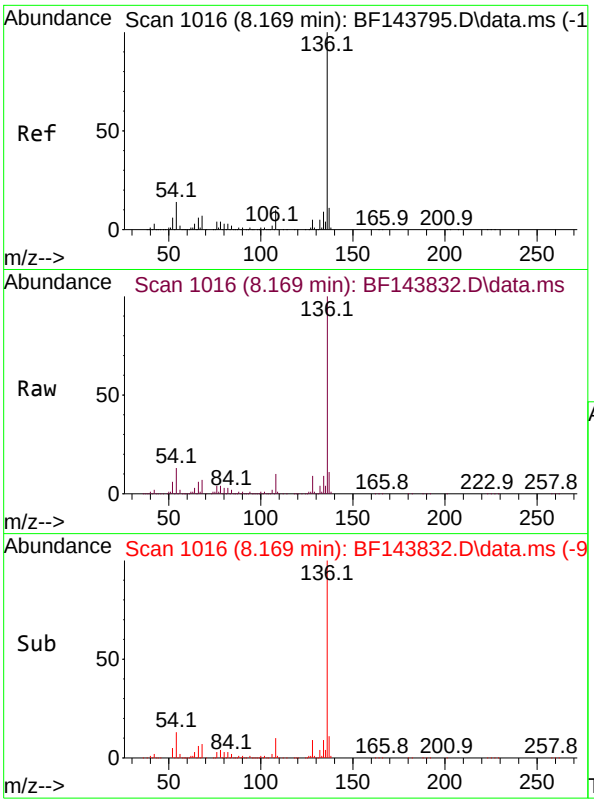


#20
3+4-Methylphenols
Concen: 42.088 ng
RT: 7.286 min Scan# 866
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:107 Resp: 441729

Ion	Ratio	Lower	Upper
107	100		
108	91.7	72.5	112.5
77	104.9	56.2	96.2#
79	30.4	10.8	50.8

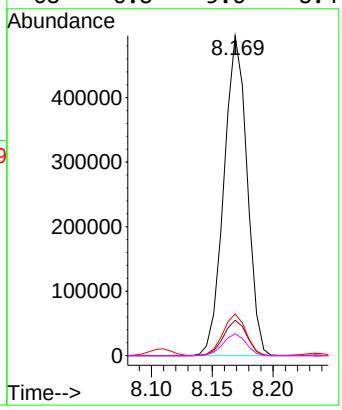




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:136 Resp: 65631

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	13.0	11.2	16.8
68	6.8	5.6	8.4



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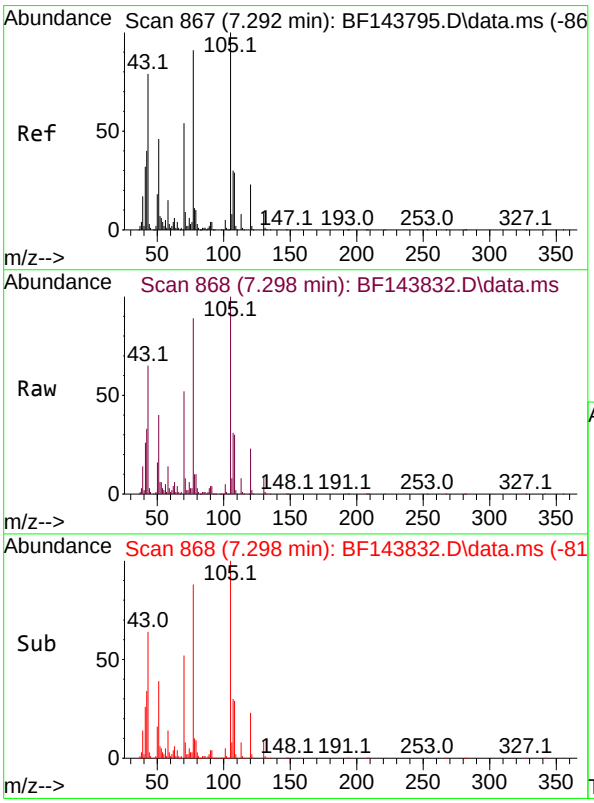
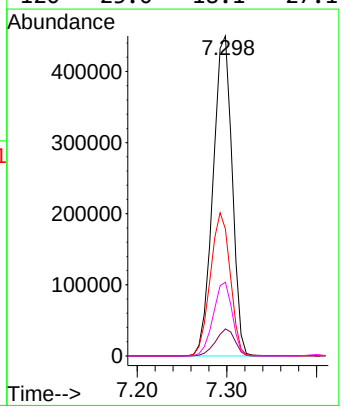
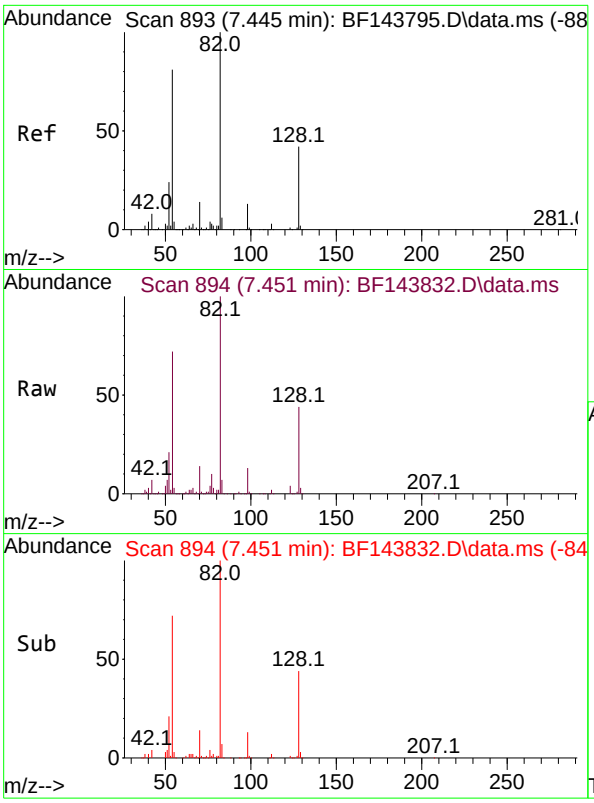


#22
Acetophenone
Concen: 46.315 ng
RT: 7.298 min Scan# 868
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:105 Resp: 667631

Ion	Ratio	Lower	Upper
105	100		
71	8.4	7.0	10.4
51	39.7	36.6	55.0
120	23.0	18.1	27.1

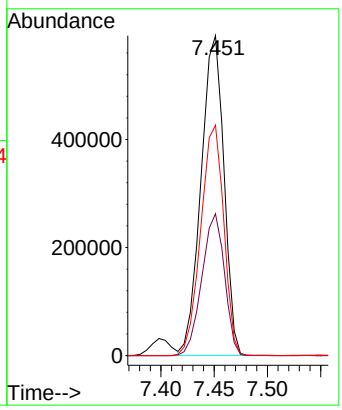




#23
Nitrobenzene-d5
Concen: 82.467 ng
RT: 7.451 min Scan# 89
Delta R.T. 0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 82 Resp: 884218

Ion	Ratio	Lower	Upper
82	100		
128	44.3	33.3	49.9
54	72.0	64.2	96.4



Instrument :
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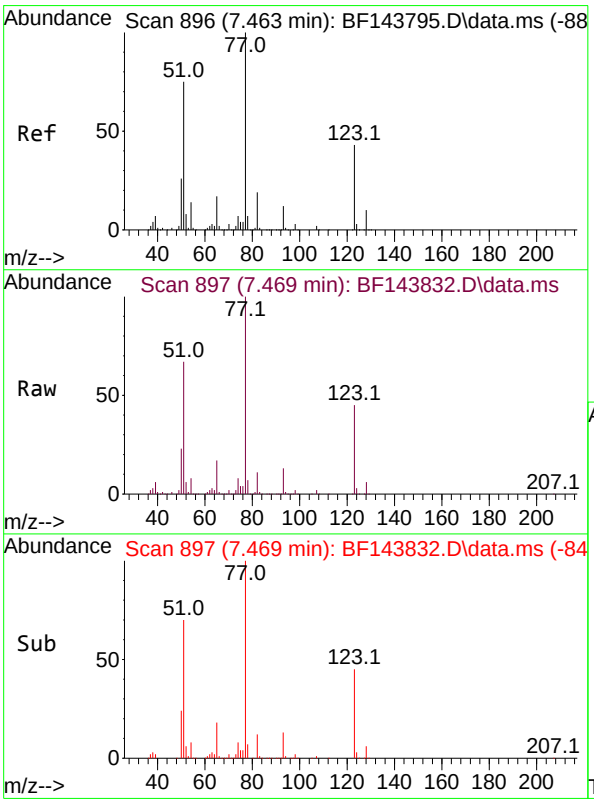
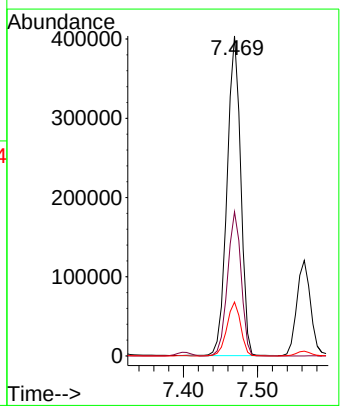
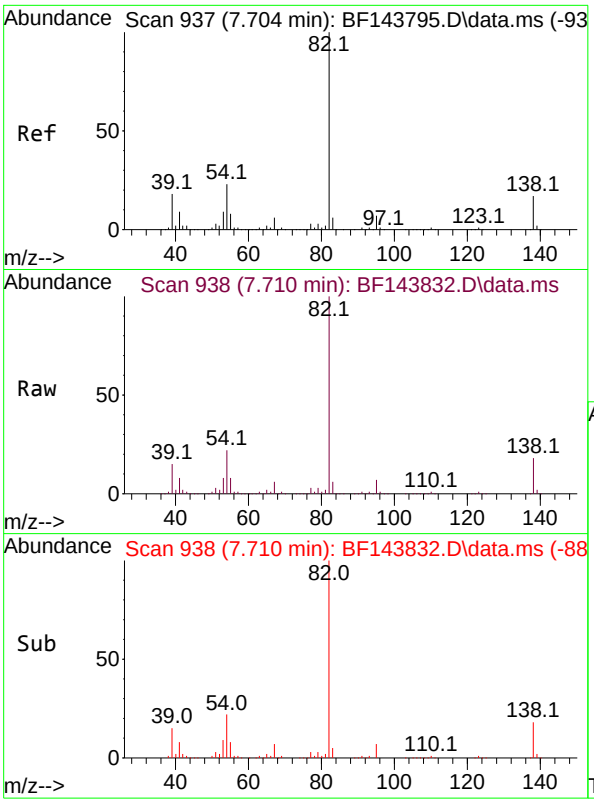


#24
Nitrobenzene
Concen: 43.404 ng
RT: 7.469 min Scan# 897
Delta R.T. -0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 77 Resp: 515841

Ion	Ratio	Lower	Upper
77	100		
123	45.0	34.0	51.0
65	16.8	13.5	20.3

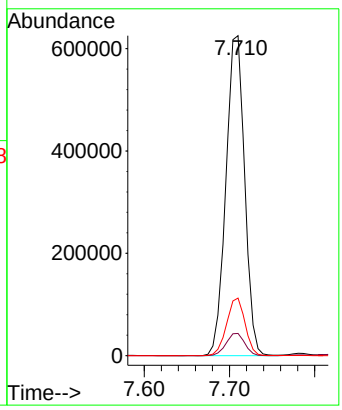




#25
Isophorone
Concen: 45.663 ng
RT: 7.710 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 82 Resp: 95407

Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.4	8.2
138	18.0	13.7	20.5



Instrument :
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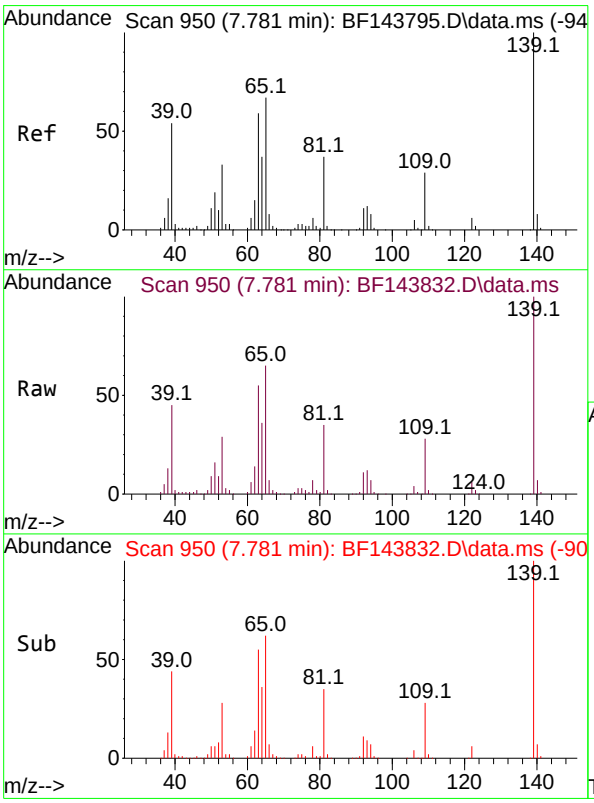
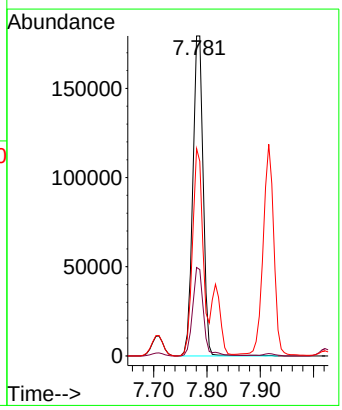
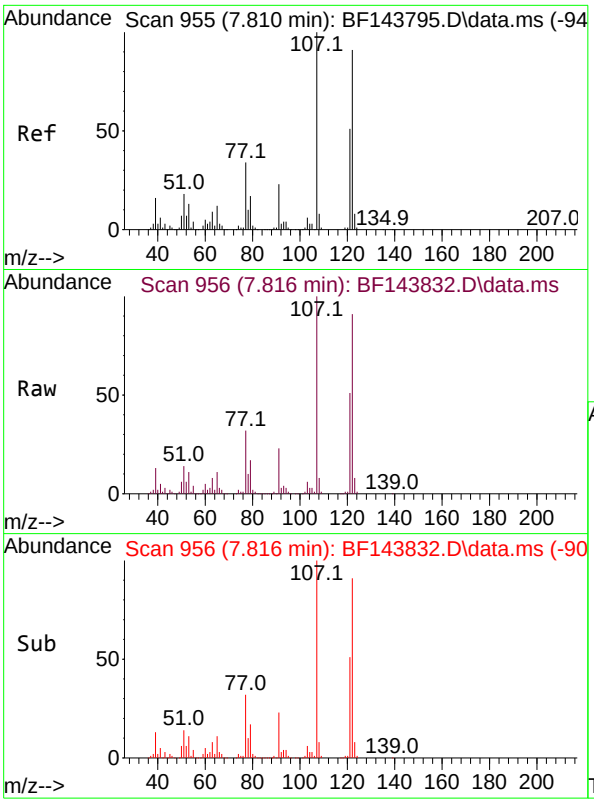


#26
2-Nitrophenol
Concen: 49.692 ng
RT: 7.781 min Scan# 950
Delta R.T. -0.005 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:139 Resp: 242954

Ion	Ratio	Lower	Upper
139	100		
109	27.6	23.3	34.9
65	64.8	53.8	80.6





#27
2,4-Dimethylphenol
Concen: 47.619 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:122 Resp: 44470

Ion	Ratio	Lower	Upper
122	100		
107	109.9	87.5	131.3
121	56.2	44.2	66.4

Instrument :
BNA_F
ClientSampleId :
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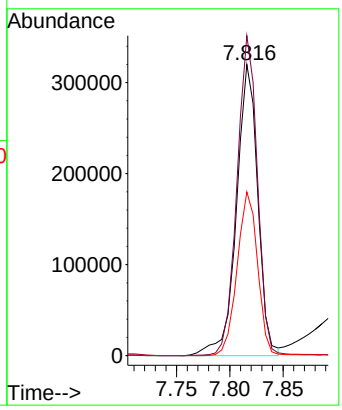
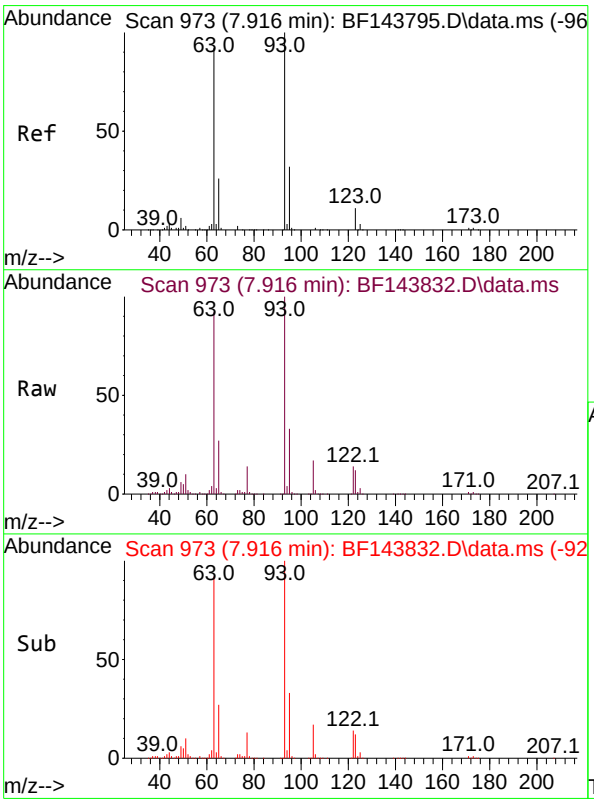
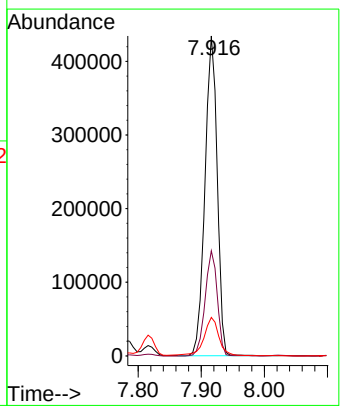


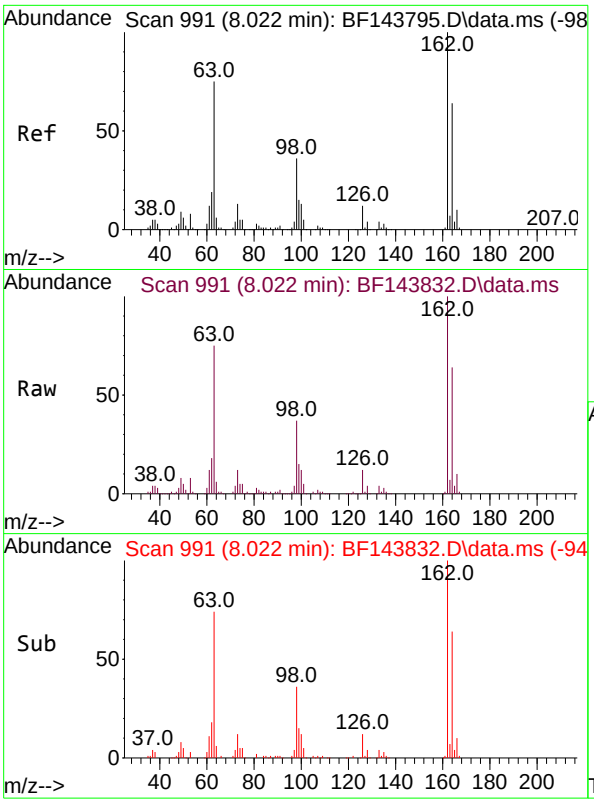


#28
bis(2-Chloroethoxy)methane
Concen: 43.088 ng
RT: 7.916 min Scan# 973
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 93 Resp: 584907

Ion	Ratio	Lower	Upper
93	100		
95	32.8	25.8	38.8
123	12.0	8.8	13.2

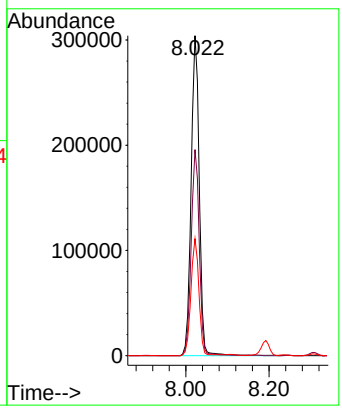




#29
2,4-Dichlorophenol
Concen: 44.768 ng
RT: 8.022 min Scan# 99
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:162 Resp: 411379

Ion	Ratio	Lower	Upper
162	100		
164	64.4	44.1	84.1
98	36.5	15.8	55.8



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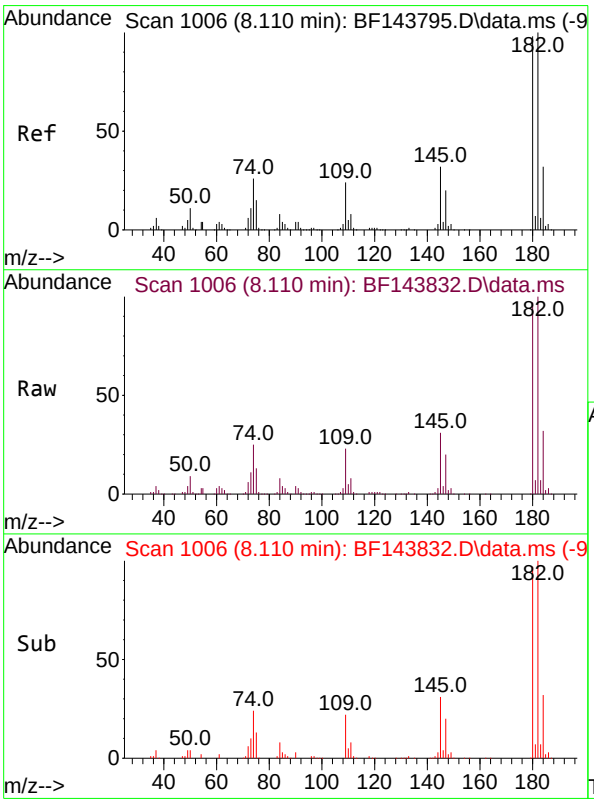
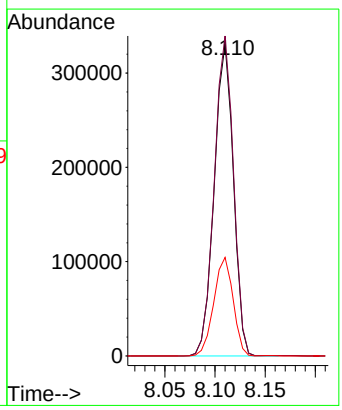
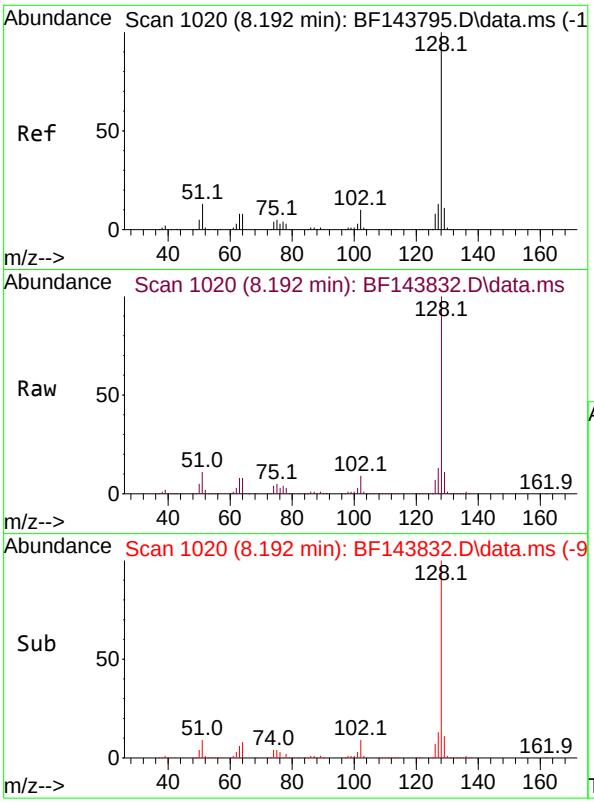


#30
1,2,4-Trichlorobenzene
Concen: 46.263 ng
RT: 8.110 min Scan# 1006
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:180 Resp: 441169

Ion	Ratio	Lower	Upper
180	100		
182	102.6	82.0	123.0
145	31.6	25.9	38.9

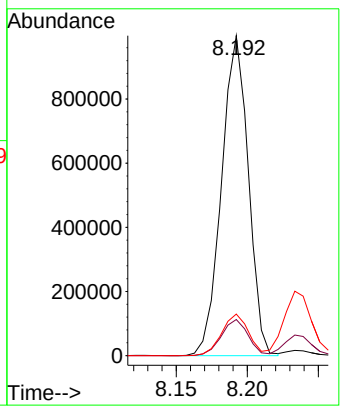




#31
Naphthalene
Concen: 41.679 ng
RT: 8.192 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:128 Resp: 130951

Ion	Ratio	Lower	Upper
128	100		
129	11.3	8.8	13.2
127	13.0	10.2	15.4



Instrument :
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ClientSampleId :
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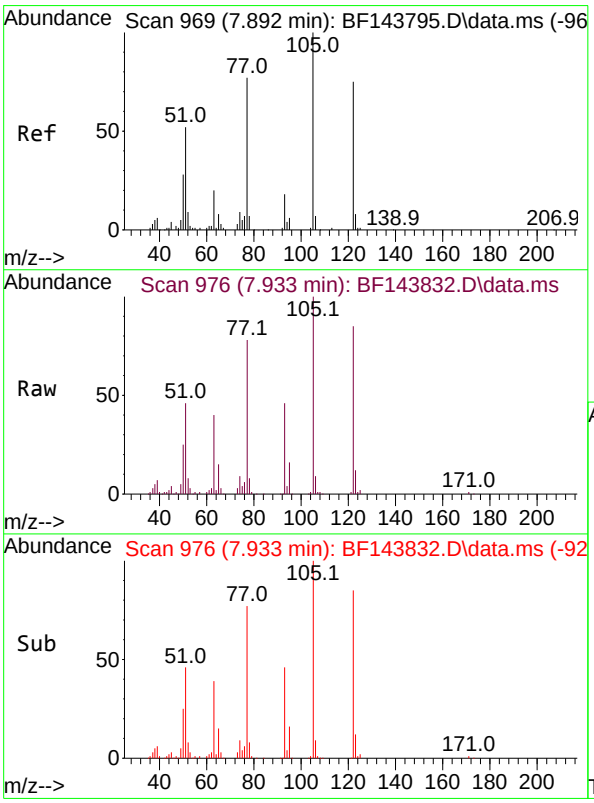
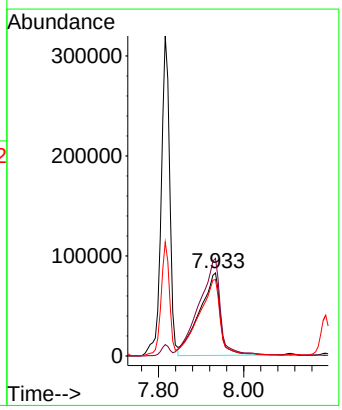
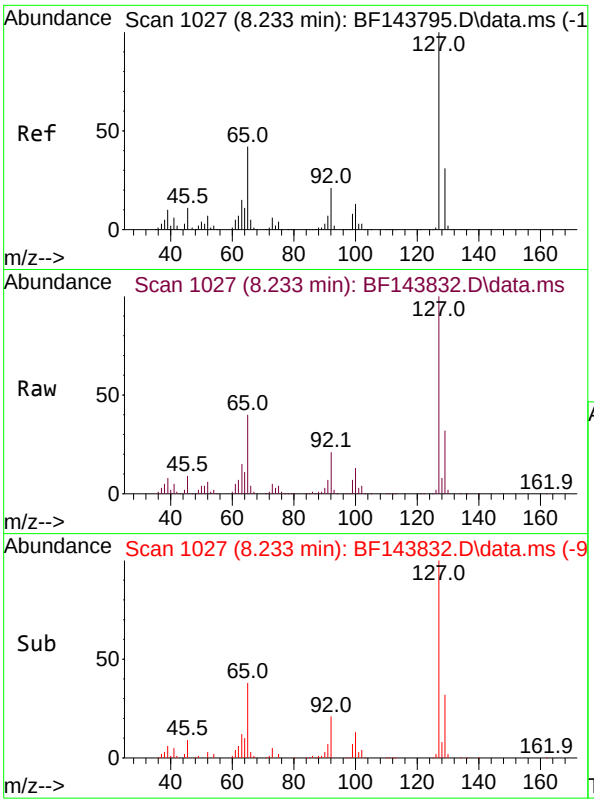


#32
Benzoic acid
Concen: 62.825 ng
RT: 7.933 min Scan# 976
Delta R.T. 0.012 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:122 Resp: 283073

Ion	Ratio	Lower	Upper
122	100		
105	117.4	103.7	143.7
77	92.1	78.8	118.8

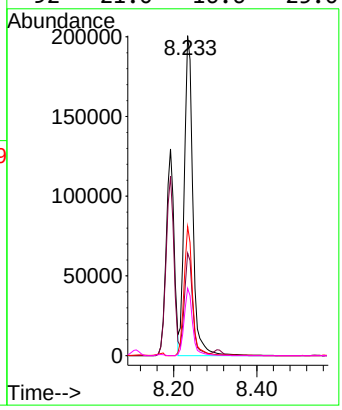




#33
4-Chloroaniline
Concen: 26.105 ng
RT: 8.233 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:127 Resp: 28822

Ion	Ratio	Lower	Upper
127	100		
129	32.0	25.4	38.2
65	40.3	33.4	50.2
92	21.0	16.6	25.0



Instrument :
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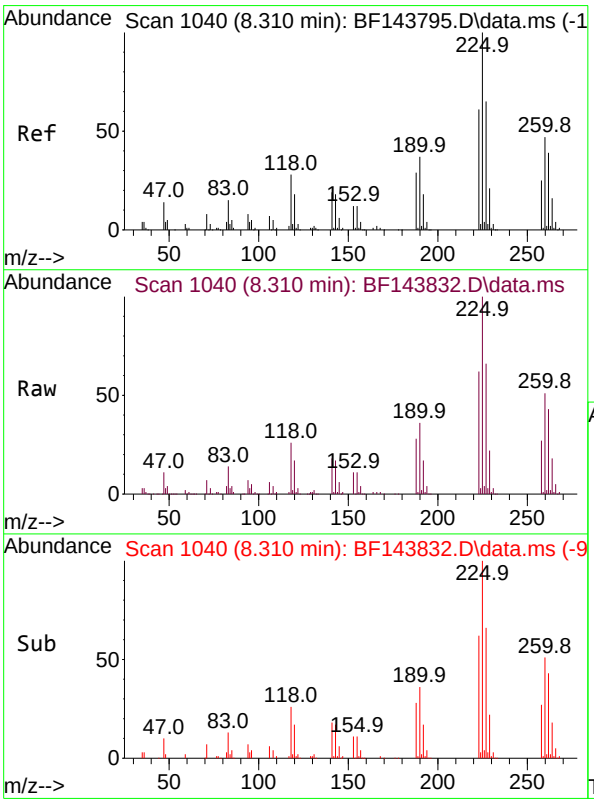
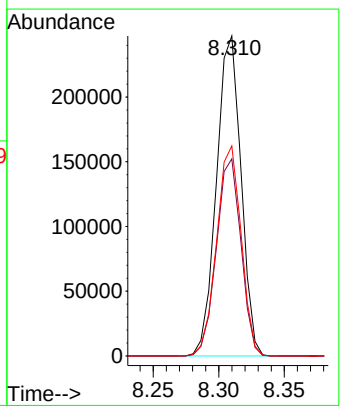
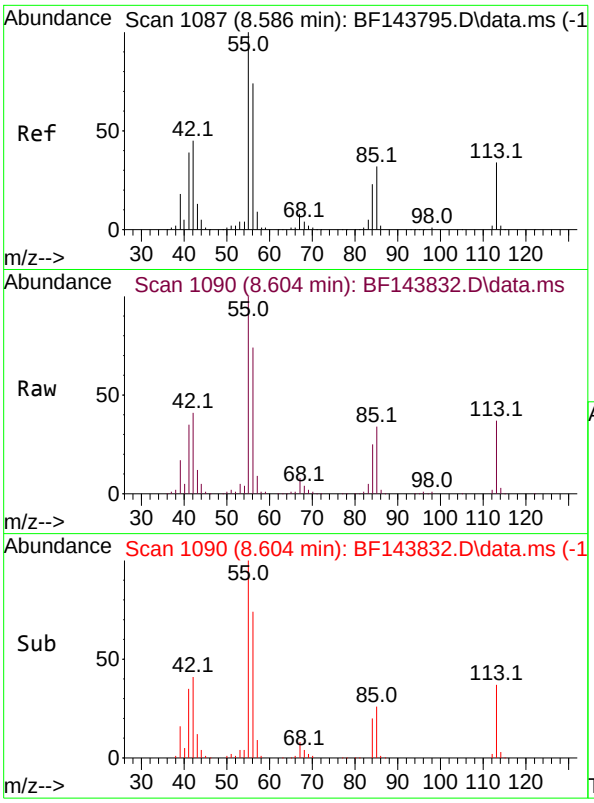


#34
Hexachlorobutadiene
Concen: 45.275 ng
RT: 8.310 min Scan# 1040
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:225 Resp: 321858

Ion	Ratio	Lower	Upper
225	100		
223	61.6	48.6	72.8
227	65.6	51.9	77.9

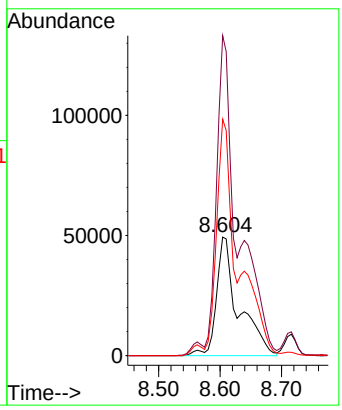




#35
Caprolactam
Concen: 52.342 ng m
RT: 8.604 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:113 Resp: 12293

Ion	Ratio	Lower	Upper
113	100		
55	270.0	271.7	311.7#
56	199.5	194.5	234.5



Instrument :
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ClientSampleId :
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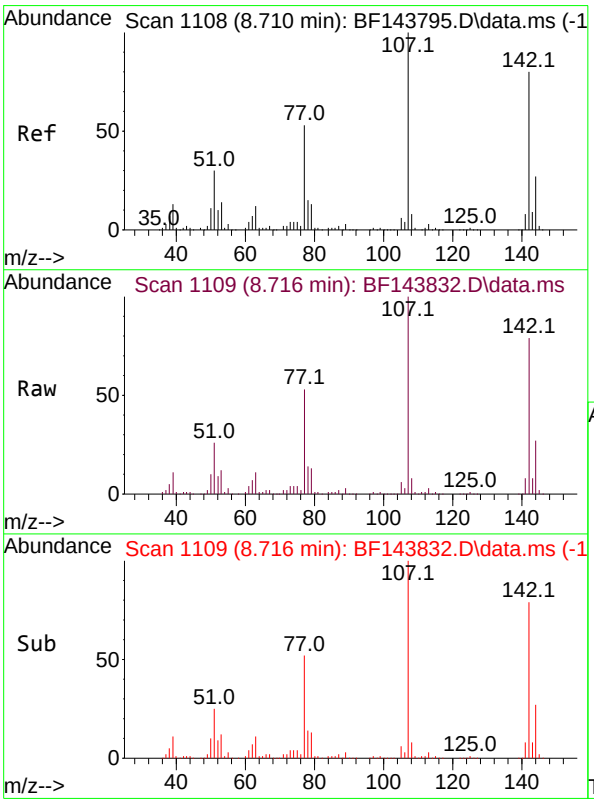
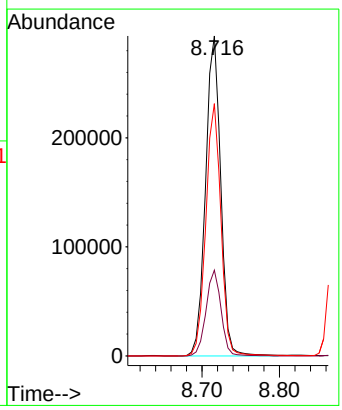
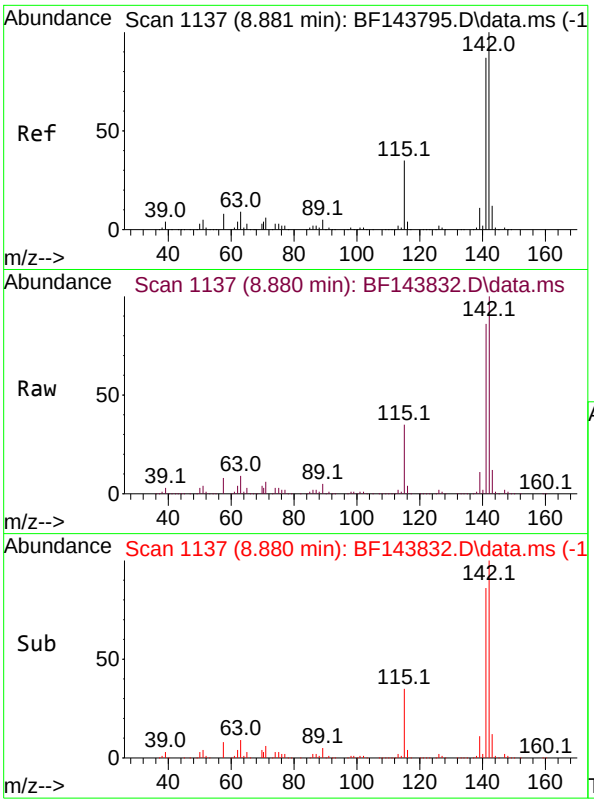


#36
4-Chloro-3-methylphenol
Concen: 46.228 ng
RT: 8.716 min Scan# 1109
Delta R.T. 0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:107 Resp: 398398

Ion	Ratio	Lower	Upper
107	100		
144	26.8	21.8	32.8
142	78.8	63.6	95.4

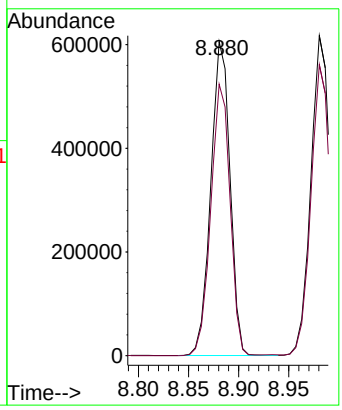




#37
2-Methylnaphthalene
Concen: 40.221 ng
RT: 8.880 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:142 Resp: 80578

Ion	Ratio	Lower	Upper
142	100		
141	86.4	69.4	104.0



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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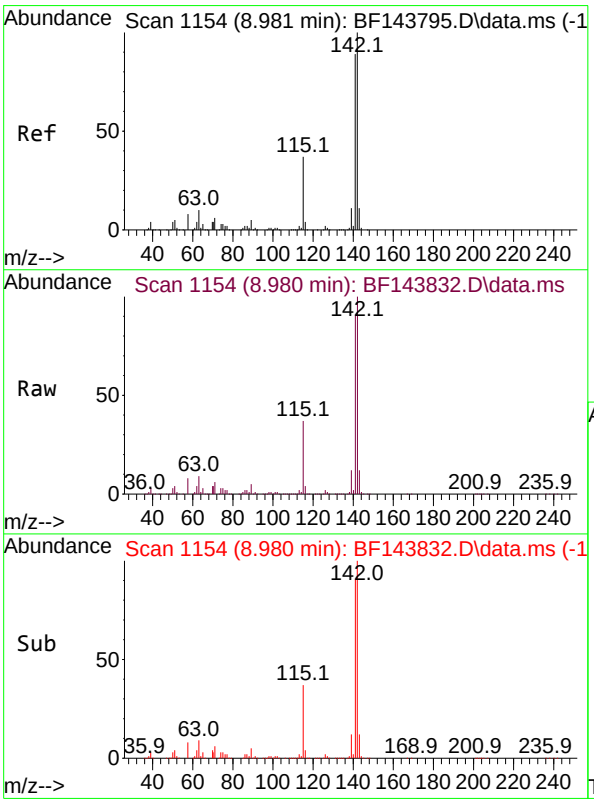
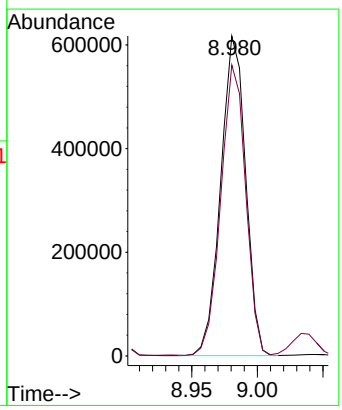
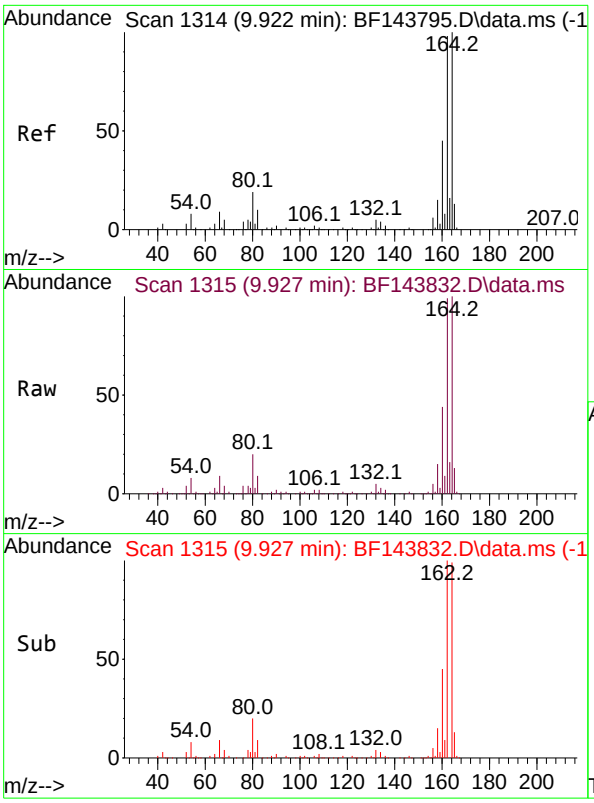


#38
1-Methylnaphthalene
Concen: 42.607 ng
RT: 8.980 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:142 Resp: 817017

Ion	Ratio	Lower	Upper
142	100		
141	90.9	71.1	106.7

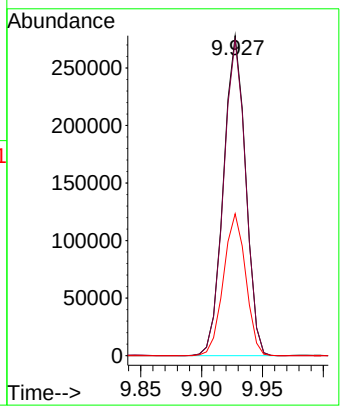




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1
Delta R.T. -0.001 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:164 Resp: 35116

Ion	Ratio	Lower	Upper
164	100		
162	98.5	78.8	118.2
160	44.3	35.8	53.6



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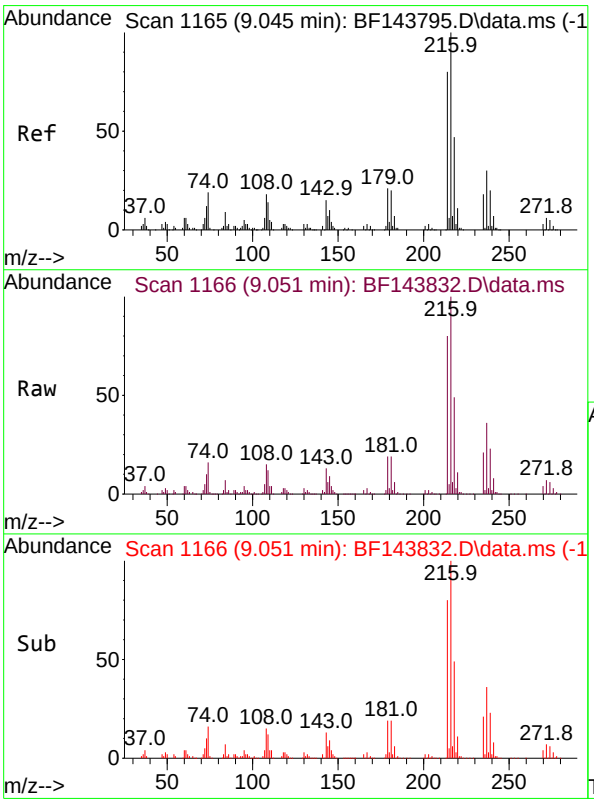
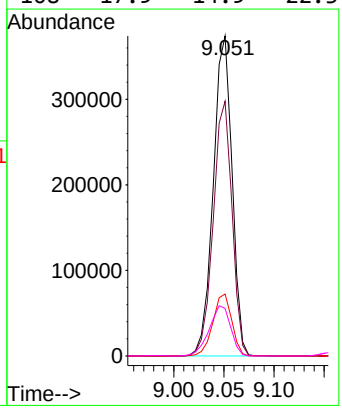
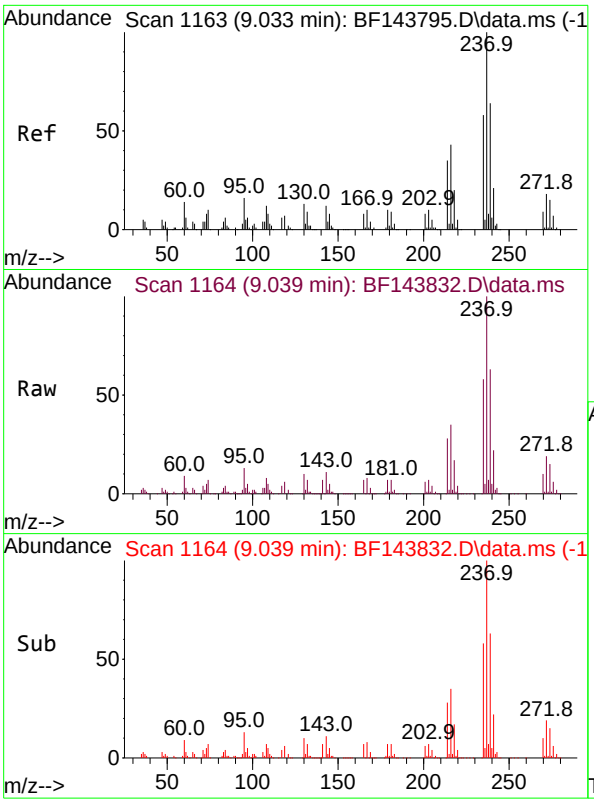


#40
1,2,4,5-Tetrachlorobenzene
Concen: 46.102 ng
RT: 9.051 min Scan# 1166
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:216 Resp: 488569

Ion	Ratio	Lower	Upper
216	100		
214	79.4	63.7	95.5
179	19.5	16.5	24.7
108	17.9	14.9	22.3

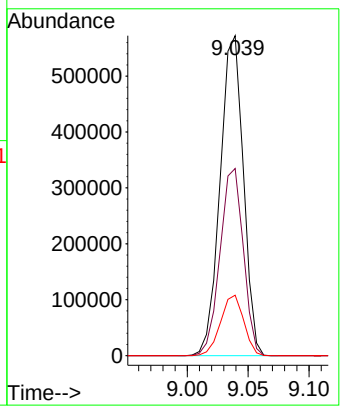




#41
Hexachlorocyclopentadiene
Concen: 113.446 ng
RT: 9.039 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:237 Resp: 76194

Ion	Ratio	Lower	Upper
237	100		
235	58.5	38.1	78.1
272	18.9	0.0	37.9



Instrument :
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ClientSampleId :
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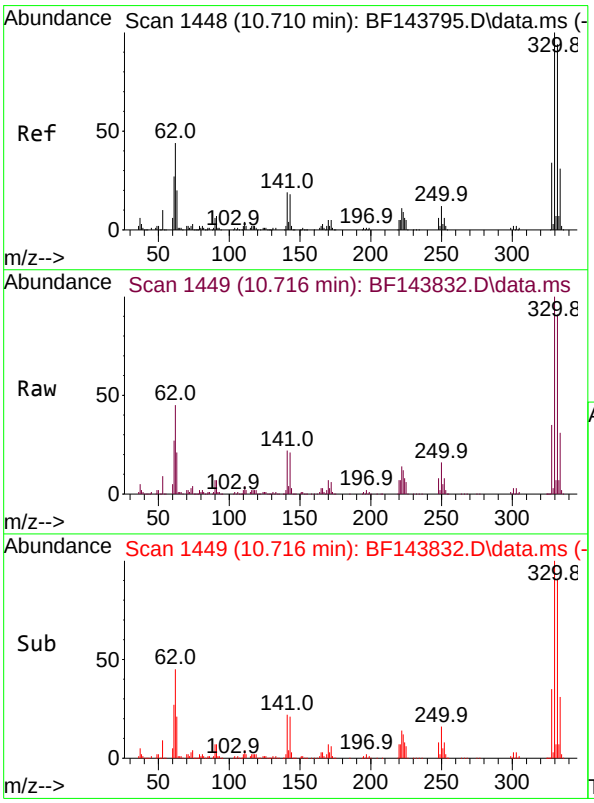
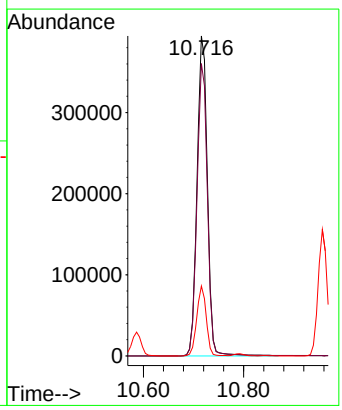
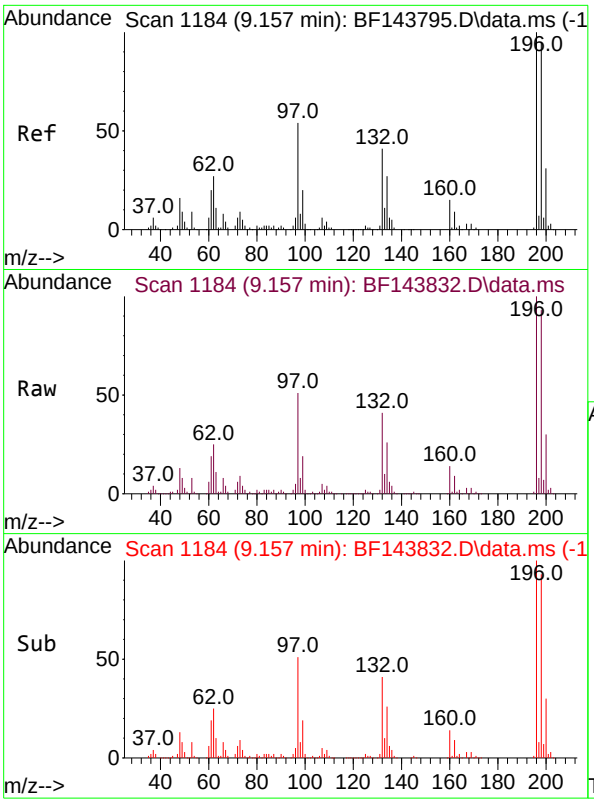


#42
2,4,6-Tribromophenol
Concen: 108.601 ng
RT: 10.716 min Scan# 1449
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:330 Resp: 564679

Ion	Ratio	Lower	Upper
330	100		
332	92.2	74.7	112.1
141	19.9	14.3	21.5

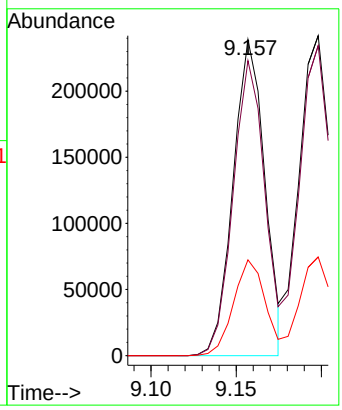




#43
2,4,6-Trichlorophenol
Concen: 46.577 ng
RT: 9.157 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:196 Resp: 309078

Ion	Ratio	Lower	Upper
196	100		
198	93.3	76.2	114.2
200	30.3	24.7	37.1



Instrument :
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ClientSampleId :
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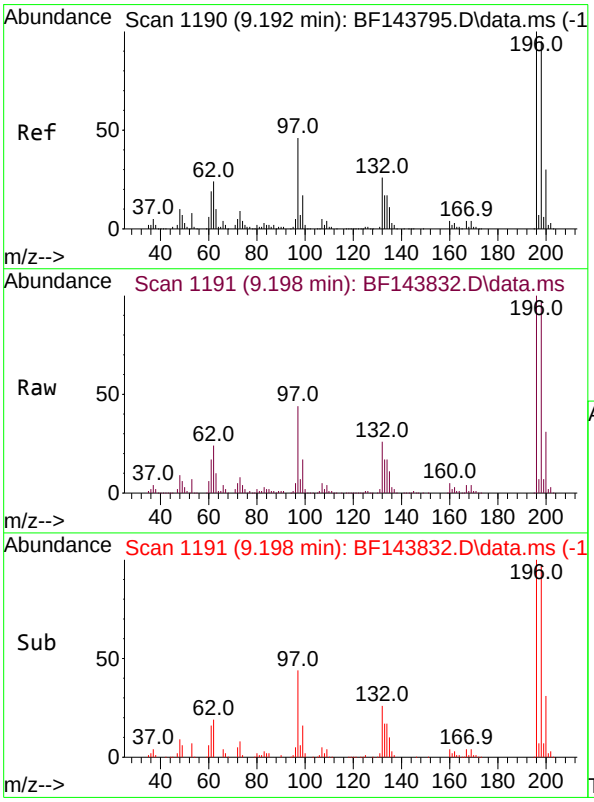
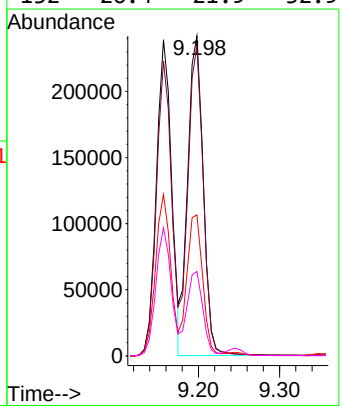
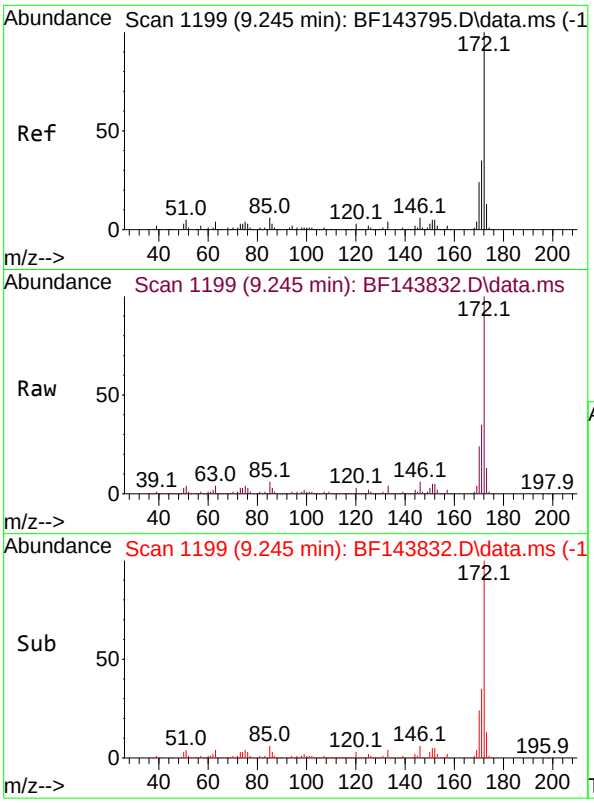


#44
2,4,5-Trichlorophenol
Concen: 46.263 ng
RT: 9.198 min Scan# 1191
Delta R.T. 0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:196 Resp: 321107

Ion	Ratio	Lower	Upper
196	100		
198	96.9	75.9	113.9
97	44.1	38.3	57.5
132	26.4	21.9	32.9

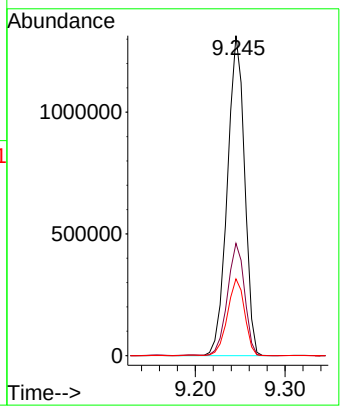




#45
2-Fluorobiphenyl
Concen: 78.457 ng
RT: 9.245 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:172 Resp: 176554

Ion	Ratio	Lower	Upper
172	100		
171	35.1	27.9	41.9
170	24.0	19.1	28.7



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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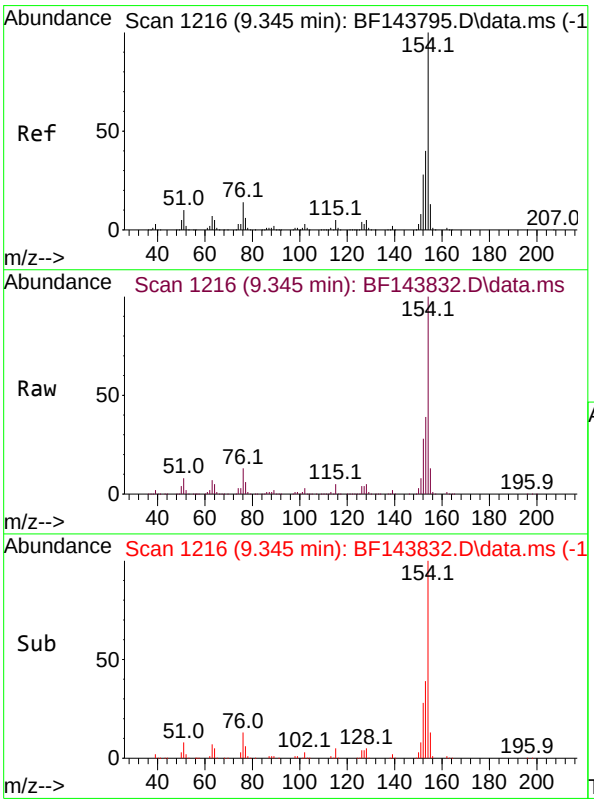
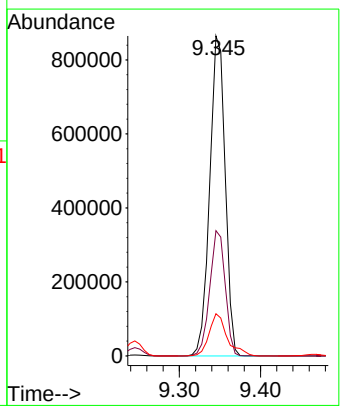
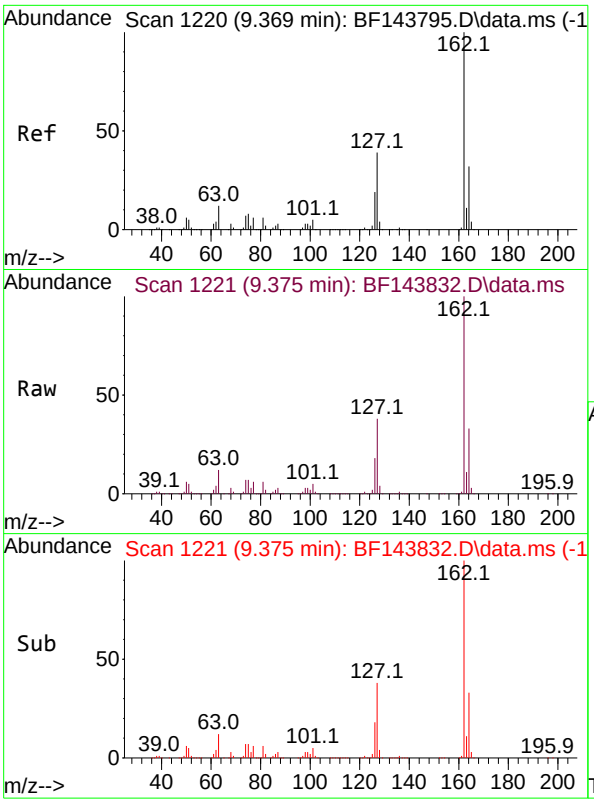


#46
1,1'-Biphenyl
Concen: 45.088 ng
RT: 9.345 min Scan# 1216
Delta R.T. 0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:154 Resp: 1146137

Ion	Ratio	Lower	Upper
154	100		
153	39.1	19.7	59.7
76	13.2	0.0	33.8

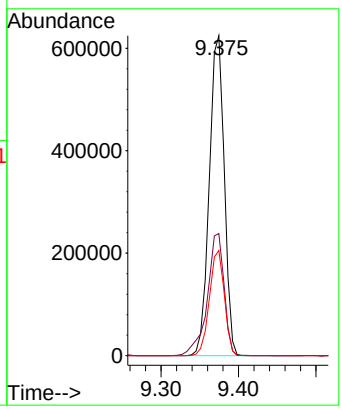




#47
2-Chloronaphthalene
Concen: 41.003 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:162 Resp: 83900

Ion	Ratio	Lower	Upper
162	100		
127	38.1	31.5	47.3
164	32.8	25.9	38.9



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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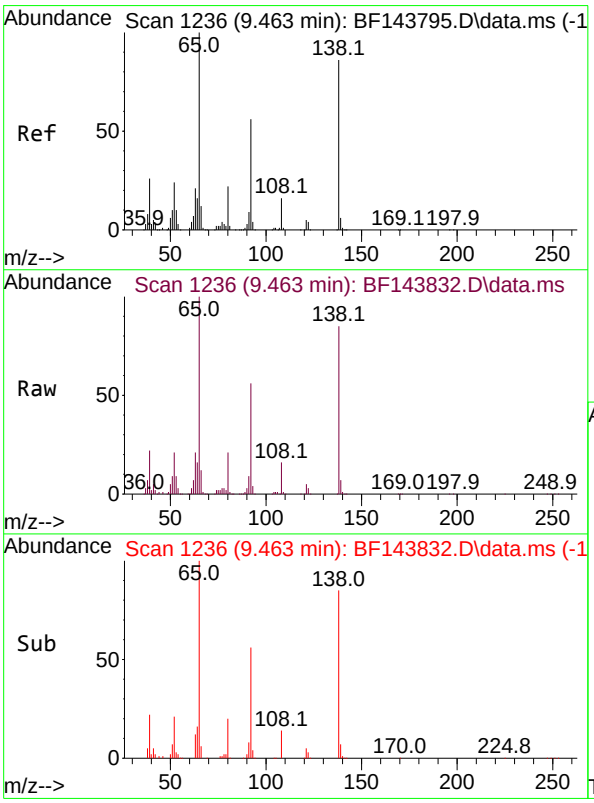
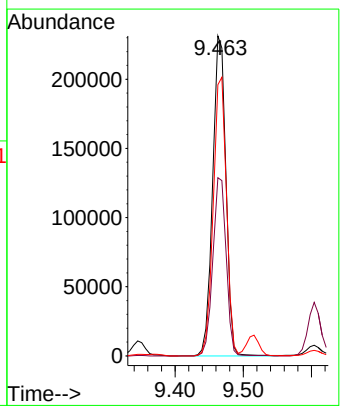
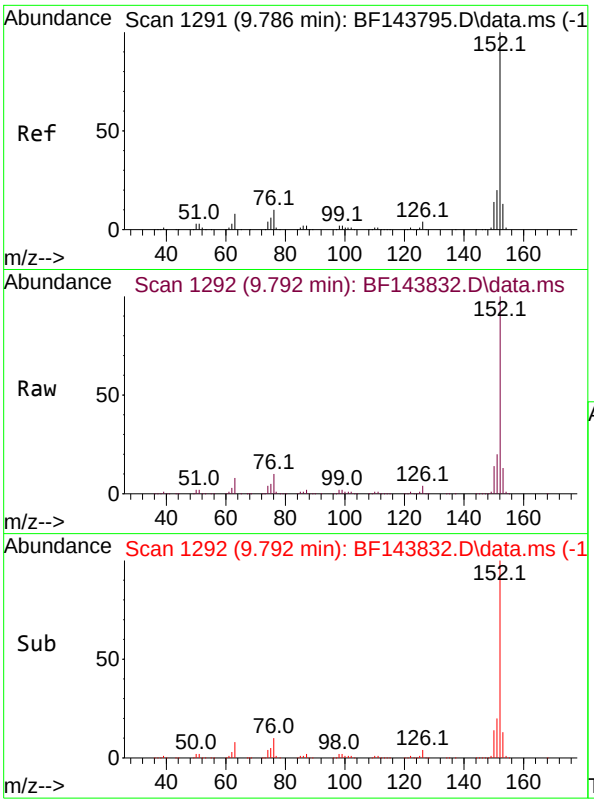


#48
2-Nitroaniline
Concen: 50.226 ng
RT: 9.463 min Scan# 1236
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 65 Resp: 310613

Ion	Ratio	Lower	Upper
65	100		
92	55.7	44.9	67.3
138	84.7	69.0	103.4

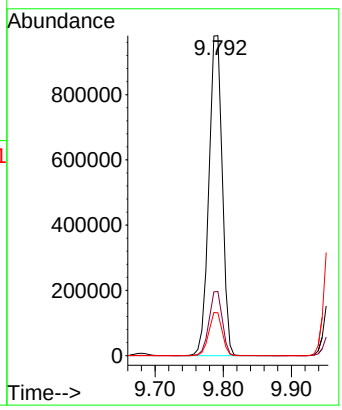




#49
Acenaphthylene
Concen: 47.508 ng
RT: 9.792 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:152 Resp: 133822

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.7	23.5
153	13.4	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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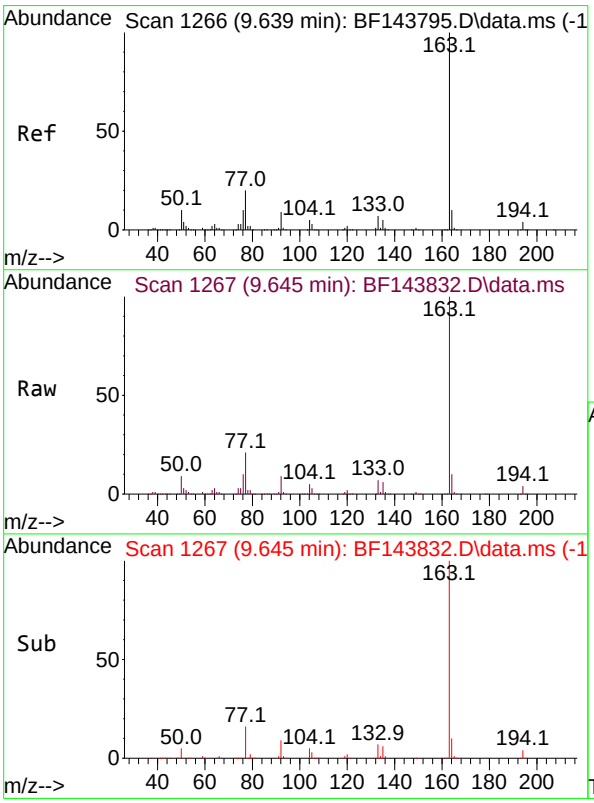
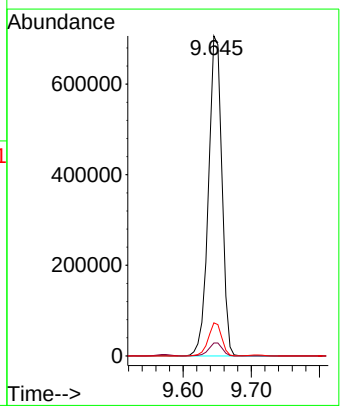
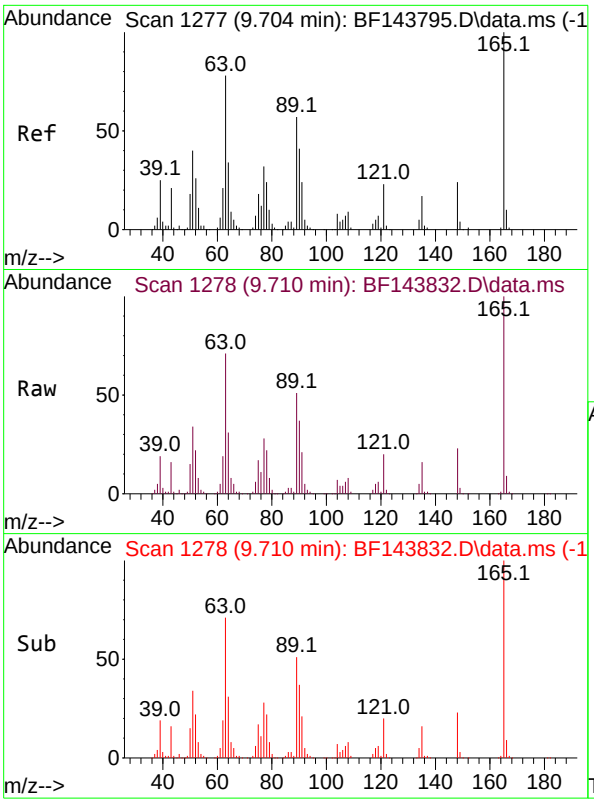


#50
Dimethylphthalate
Concen: 45.170 ng
RT: 9.645 min Scan# 1267
Delta R.T. 0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:163 Resp: 966787

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.3	8.2	12.2

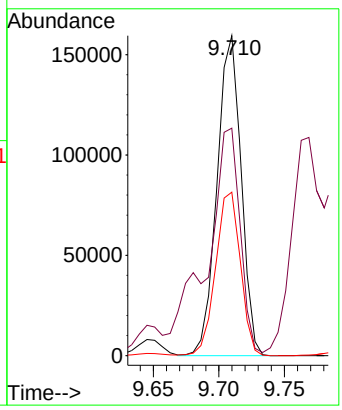




#51
2,6-Dinitrotoluene
Concen: 58.158 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:165 Resp: 204518

Ion	Ratio	Lower	Upper
165	100		
63	71.1	62.6	94.0
89	51.1	45.2	67.8



Instrument :
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ClientSampleId :
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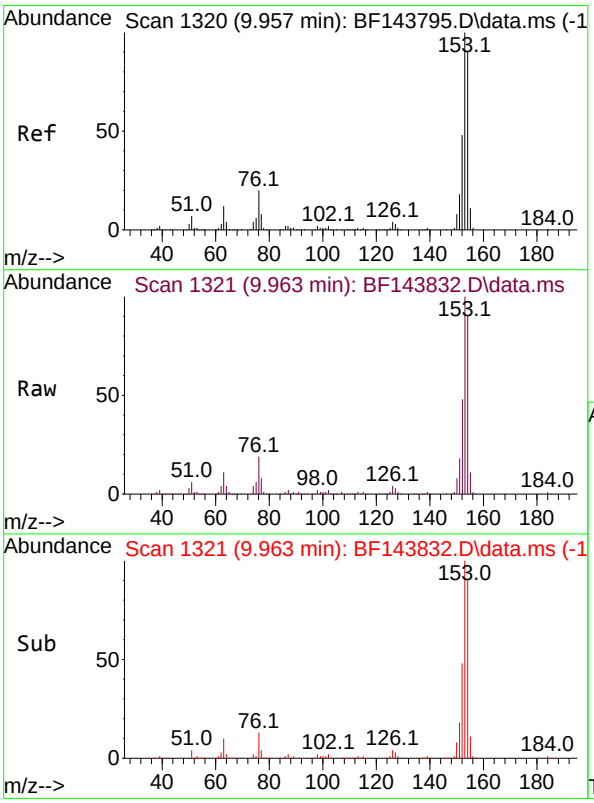
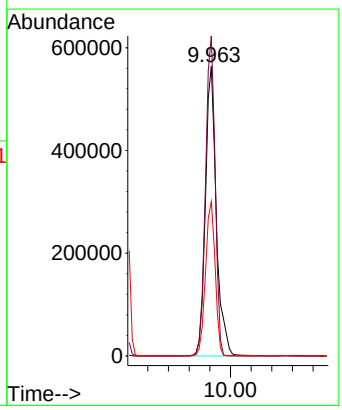
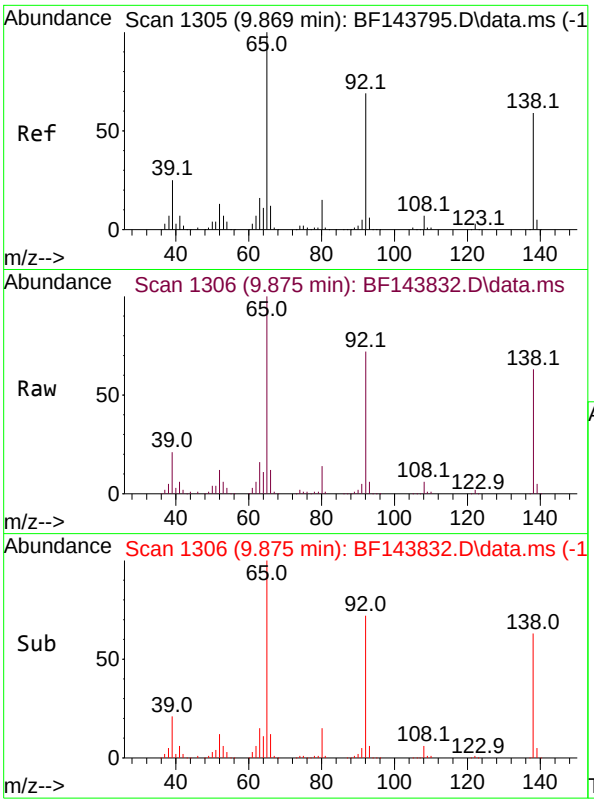


#52
Acenaphthene
Concen: 44.507 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:154 Resp: 825025

Ion	Ratio	Lower	Upper
154	100		
153	110.5	88.7	133.1
152	53.3	42.7	64.1





#53
3-Nitroaniline
Concen: 35.469 ng
RT: 9.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:138 Resp: 15118

Ion	Ratio	Lower	Upper
138	100		
108	10.3	9.9	14.9
92	115.4	93.5	140.3

Instrument :
BNA_F
ClientSampleId :
PB169880BS

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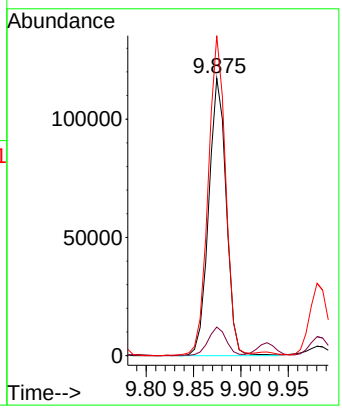
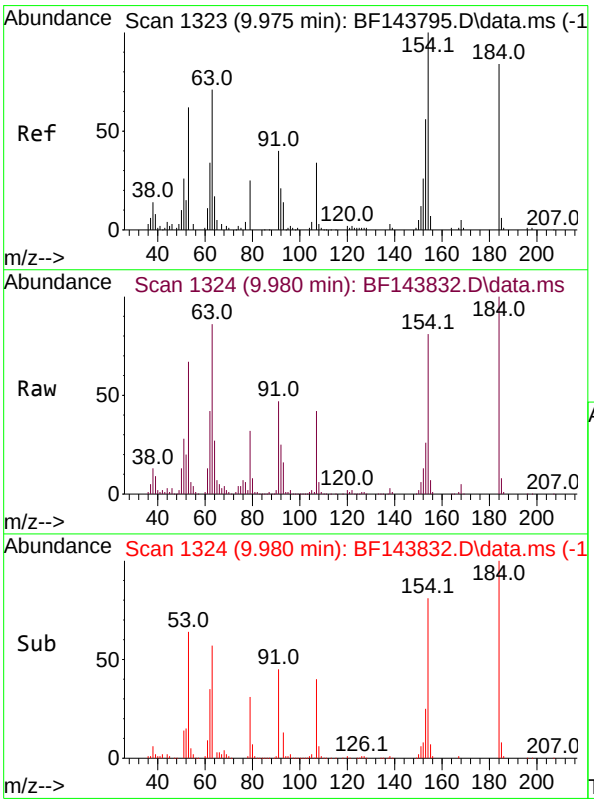
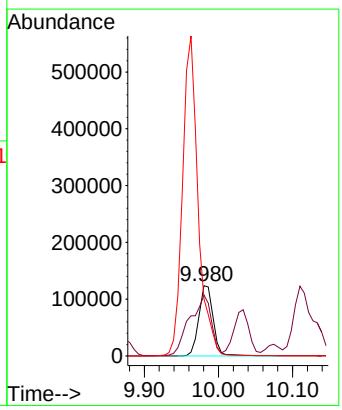


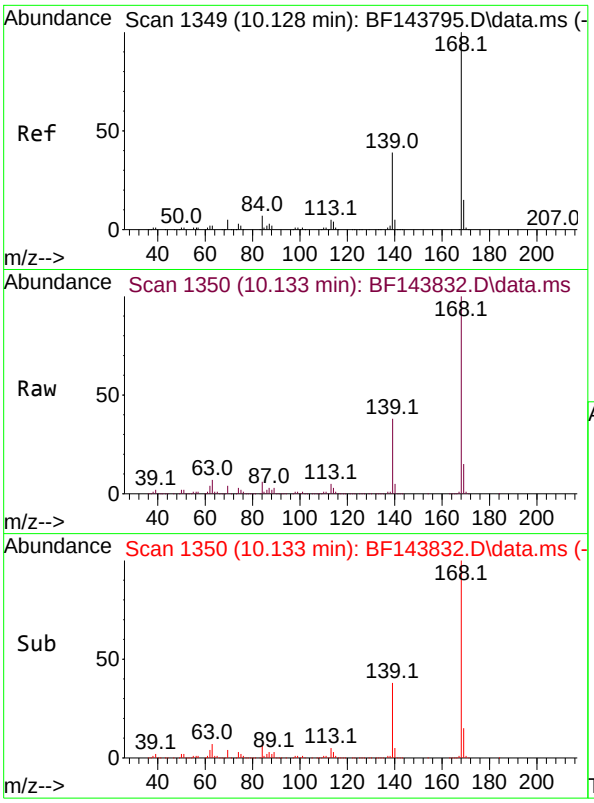


#54
2,4-Dinitrophenol
Concen: 97.461 ng
RT: 9.980 min Scan# 1324
Delta R.T. 0.005 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:184 Resp: 166819

Ion	Ratio	Lower	Upper
184	100		
63	86.3	84.6	127.0
154	81.3	199.3	298.9#

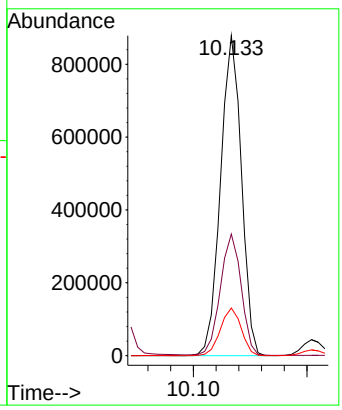




#55
Dibenzofuran
Concen: 42.806 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:168 Resp: 112205

Ion	Ratio	Lower	Upper
168	100		
139	38.0	31.0	46.6
169	14.9	11.9	17.9



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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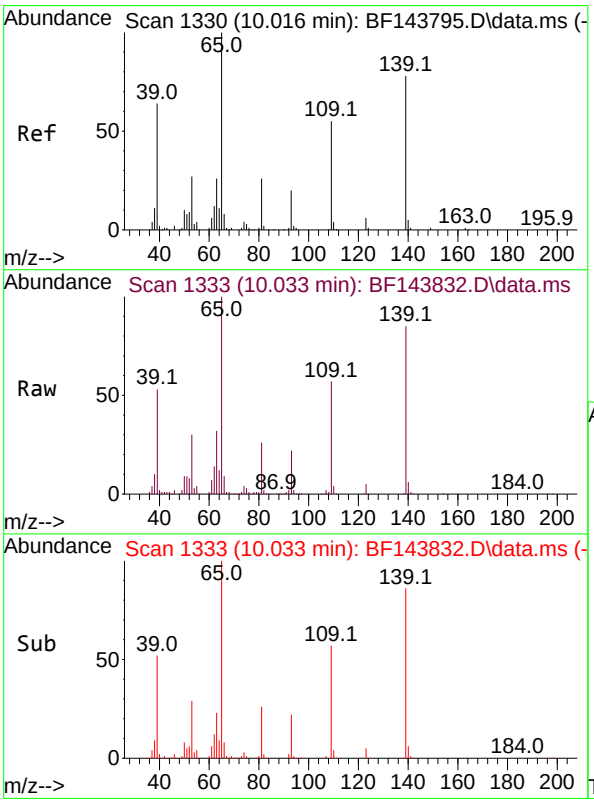
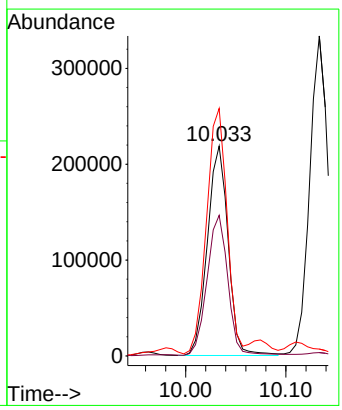
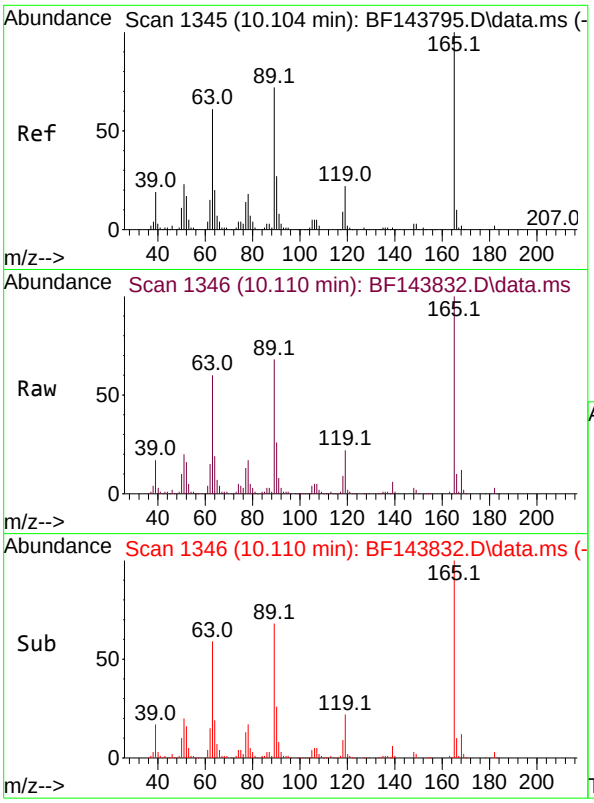


#56
4-Nitrophenol
Concen: 91.386 ng
RT: 10.033 min Scan# 1333
Delta R.T. 0.012 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:139 Resp: 313904

Ion	Ratio	Lower	Upper
139	100		
109	67.0	50.2	90.2
65	117.9	109.2	149.2

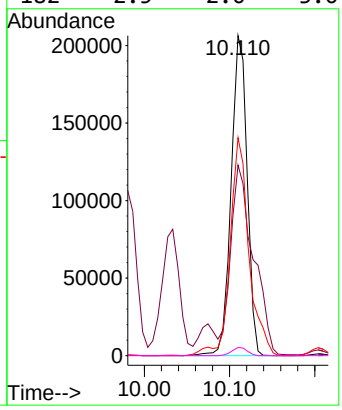




#57
2,4-Dinitrotoluene
Concen: 51.233 ng
RT: 10.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:165 Resp: 26851

Ion	Ratio	Lower	Upper
165	100		
63	59.5	48.9	73.3
89	68.1	57.5	86.3
182	2.5	2.0	3.0



Instrument :
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ClientSampleId :
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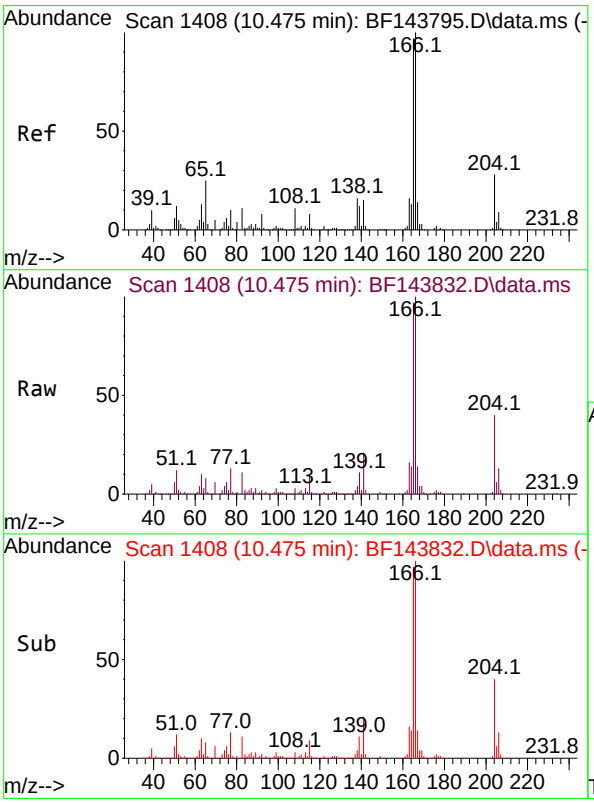
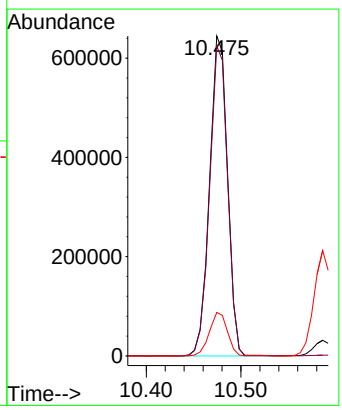
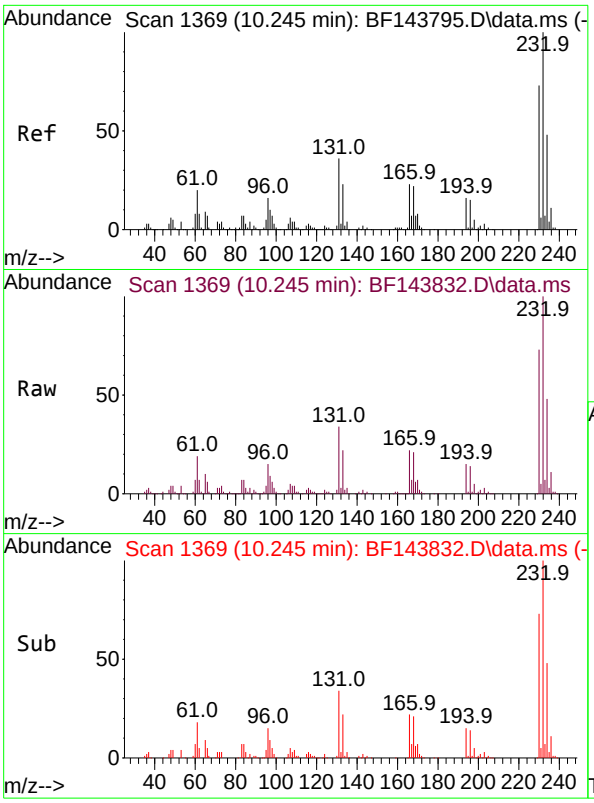


#58
Fluorene
Concen: 43.683 ng
RT: 10.475 min Scan# 1408
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:166 Resp: 851254

Ion	Ratio	Lower	Upper
166	100		
165	96.8	78.0	117.0
167	13.6	10.9	16.3

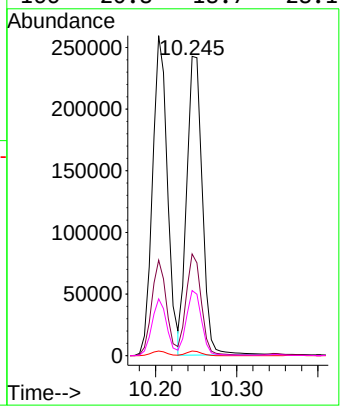




#59
2,3,4,6-Tetrachlorophenol
Concen: 54.381 ng
RT: 10.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:232 Resp: 32335

Ion	Ratio	Lower	Upper
232	100		
131	32.9	29.4	44.2
130	1.5	1.3	1.9
166	20.8	18.7	28.1



Instrument :
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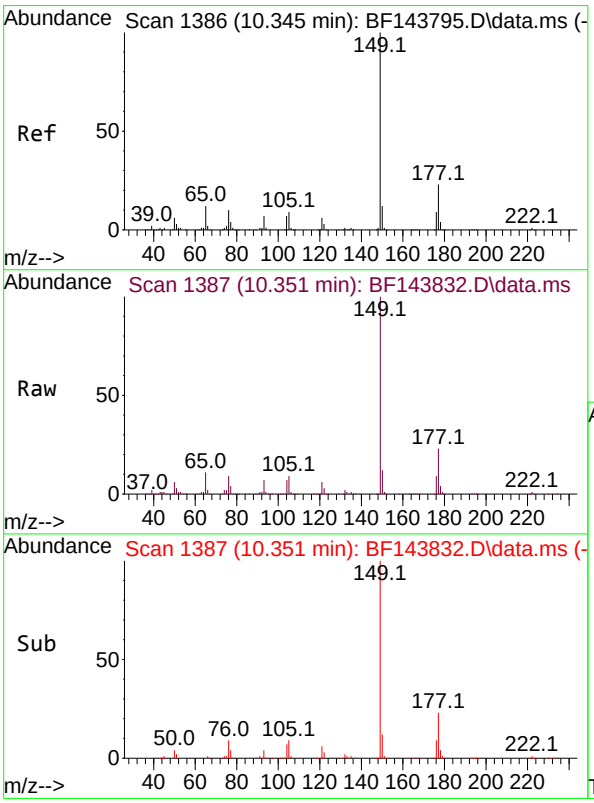
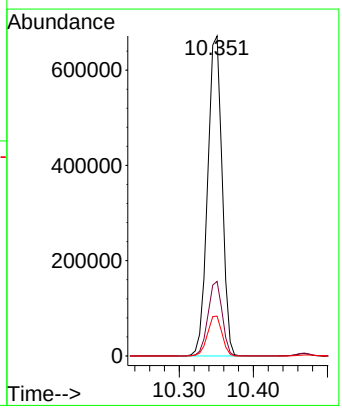
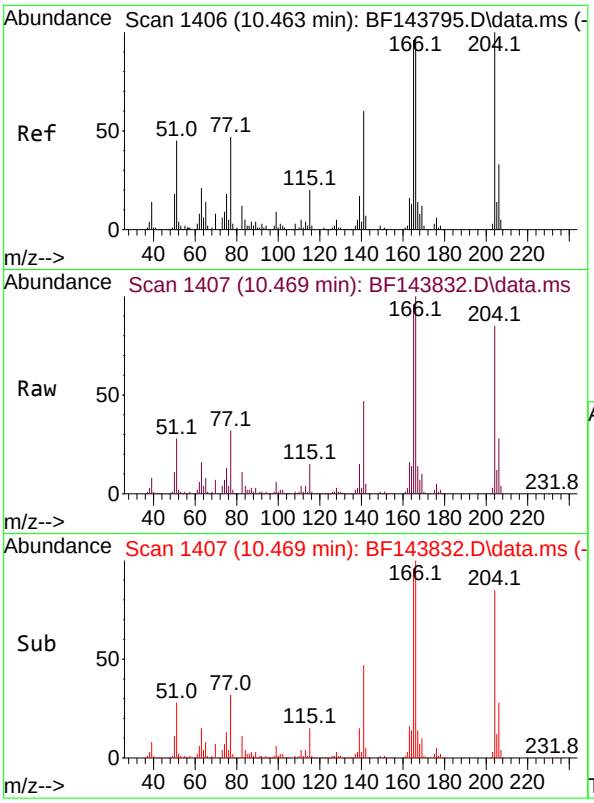


#60
Diethylphthalate
Concen: 45.311 ng
RT: 10.351 min Scan# 1387
Delta R.T. 0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:149 Resp: 907832

Ion	Ratio	Lower	Upper
149	100		
177	23.3	18.1	27.1
150	12.4	9.7	14.5





#61
4-Chlorophenyl-phenylether
Concen: 45.023 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Instrument :
BNA_F
ClientSampleId :
PB169880BS

Tgt Ion:204 Resp: 44704

Ion	Ratio	Lower	Upper
204	100		
206	33.1	26.7	40.1
141	54.8	48.2	72.2

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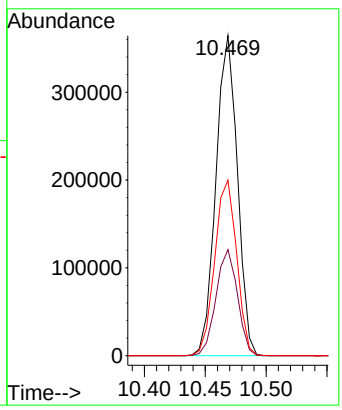
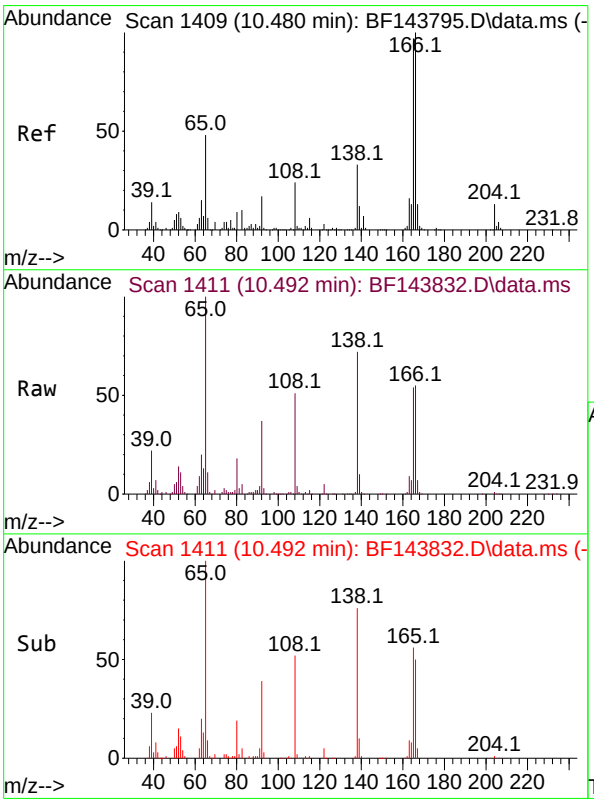
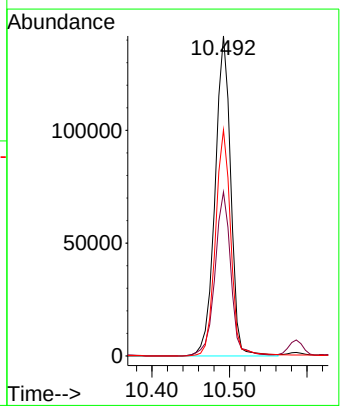


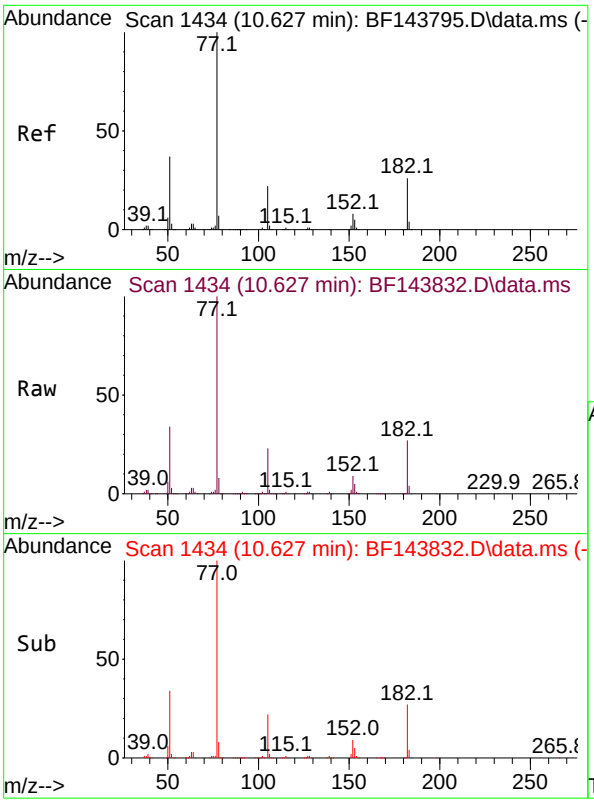


#62
4-Nitroaniline
Concen: 49.739 ng
RT: 10.492 min Scan# 1411
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:138 Resp: 199352

Ion	Ratio	Lower	Upper
138	100		
92	51.2	31.5	71.5
108	70.6	51.9	91.9

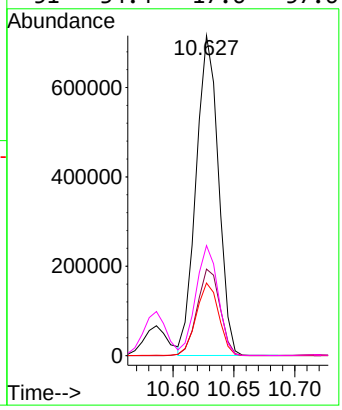




#63
Azobenzene
Concen: 43.249 ng
RT: 10.627 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion: 77 Resp: 913219

Ion	Ratio	Lower	Upper
77	100		
182	27.0	5.9	45.9
105	22.7	2.3	42.3
51	34.4	17.6	57.6



Instrument :
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ClientSampleId :
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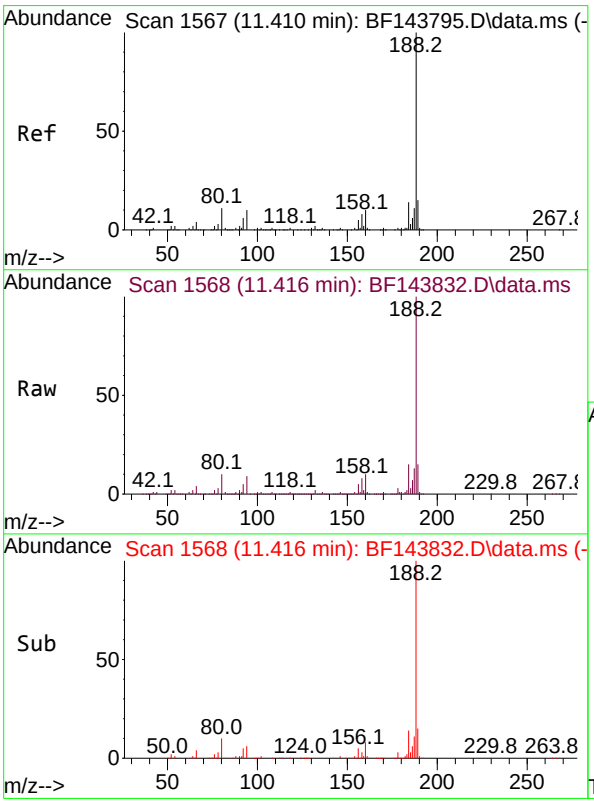
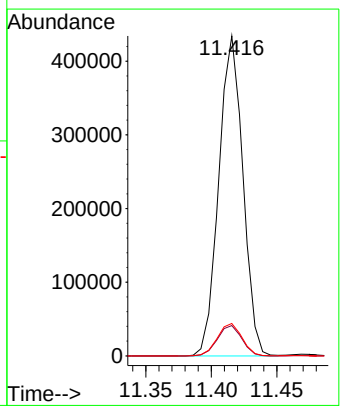
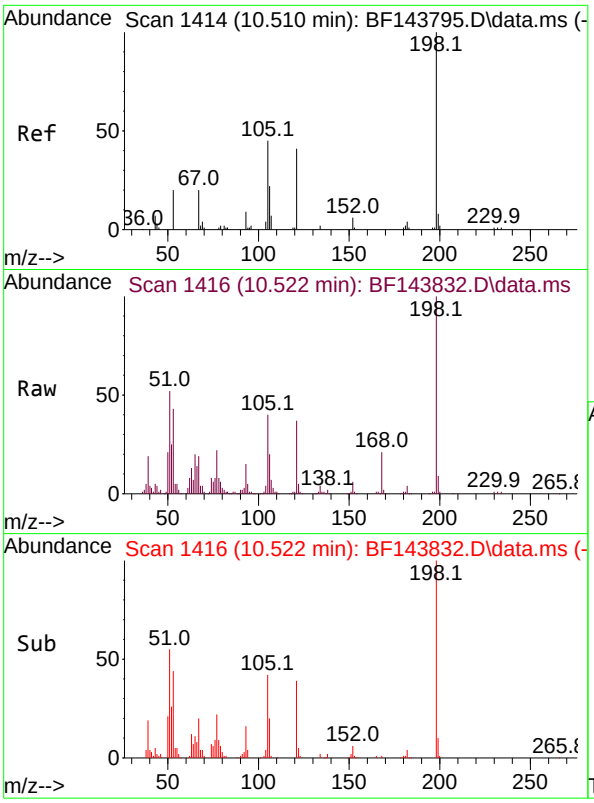


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:188 Resp: 557066

Ion	Ratio	Lower	Upper
188	100		
94	9.5	8.2	12.2
80	10.1	8.6	12.8

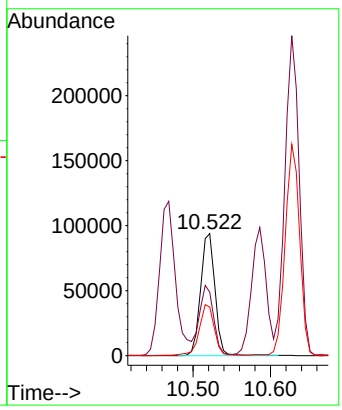




#65
4,6-Dinitro-2-methylphenol
Concen: 56.270 ng
RT: 10.522 min Scan# 14
Delta R.T. 0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:198 Resp: 12052

Ion	Ratio	Lower	Upper
198	100		
51	52.1	52.0	92.0
105	39.8	27.5	67.5



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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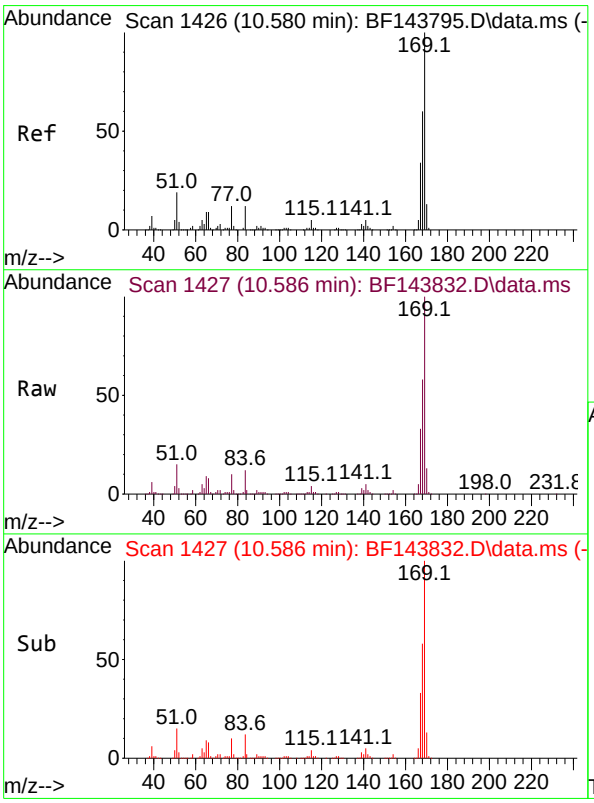
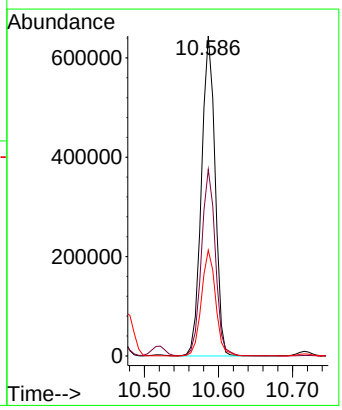
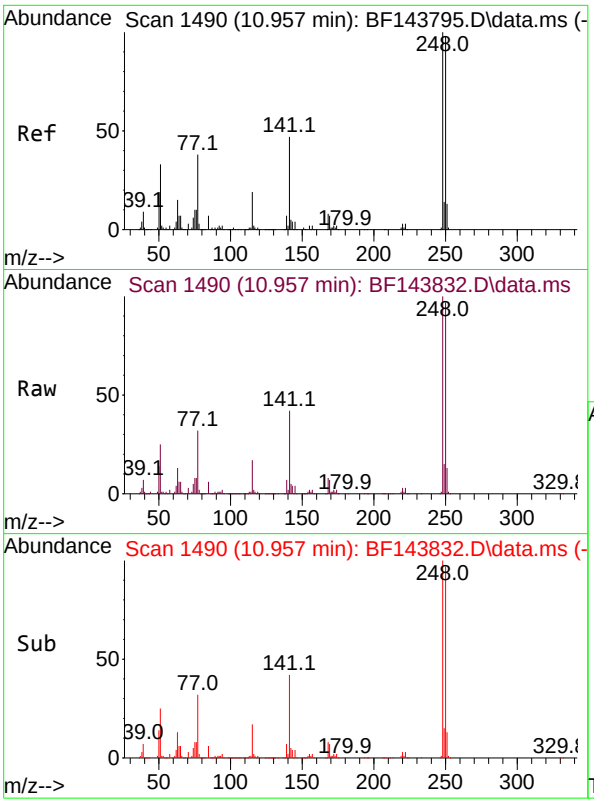


#66
n-Nitrosodiphenylamine
Concen: 44.956 ng
RT: 10.586 min Scan# 1427
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:169 Resp: 823601

Ion	Ratio	Lower	Upper
169	100		
168	58.3	47.9	71.9
167	33.0	27.0	40.6





#67
4-Bromophenyl-phenylether
Concen: 49.607 ng
RT: 10.957 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:248 Resp: 47094

Ion	Ratio	Lower	Upper
248	100		
250	96.8	78.7	118.1
141	41.7	37.9	56.9

Instrument :
BNA_F
ClientSampleId :
PB169880BS

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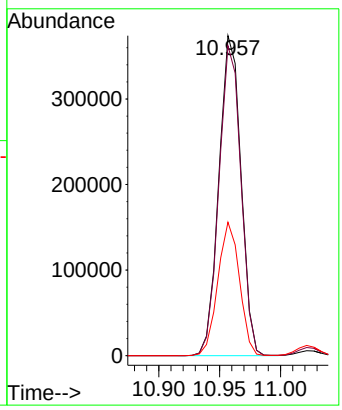
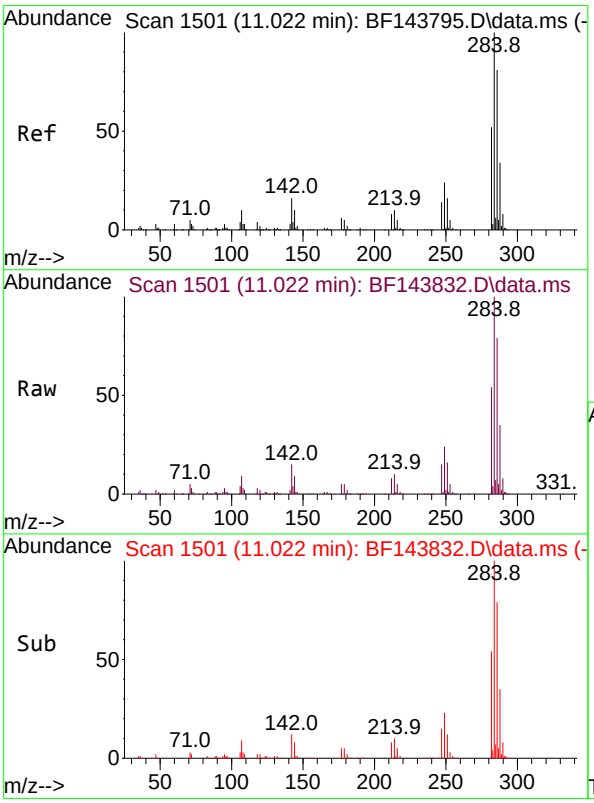
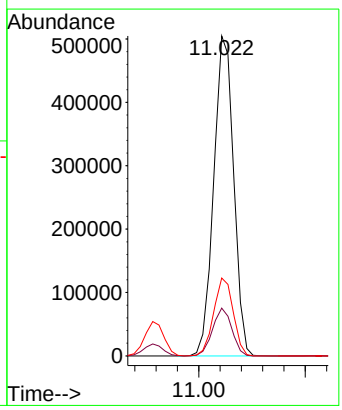


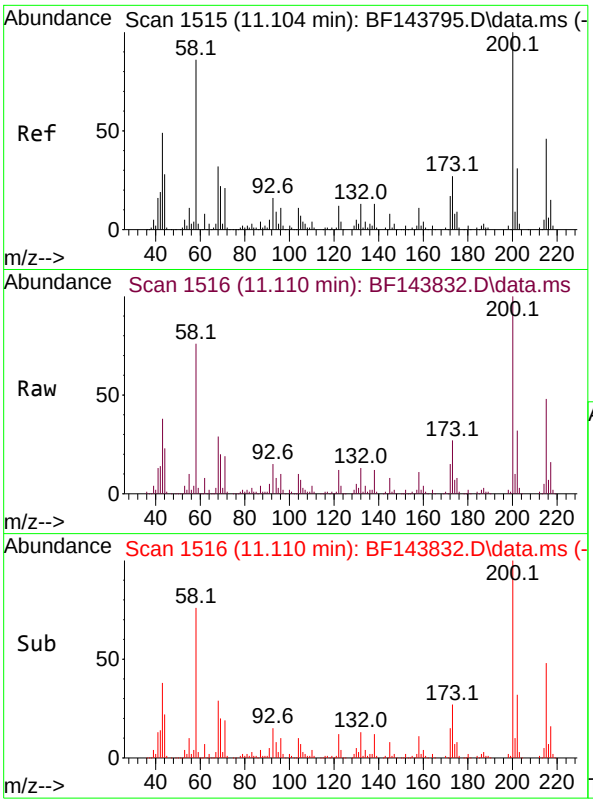


#68
Hexachlorobenzene
Concen: 50.132 ng
RT: 11.022 min Scan# 1501
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:284 Resp: 655868

Ion	Ratio	Lower	Upper
284	100		
142	14.9	13.1	19.7
249	24.3	19.5	29.3

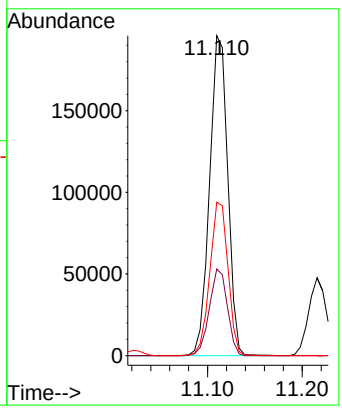




#69
Atrazine
Concen: 49.132 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:200 Resp: 26065

Ion	Ratio	Lower	Upper
200	100		
173	27.1	7.2	47.2
215	47.9	26.0	66.0



Instrument :
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ClientSampleId :
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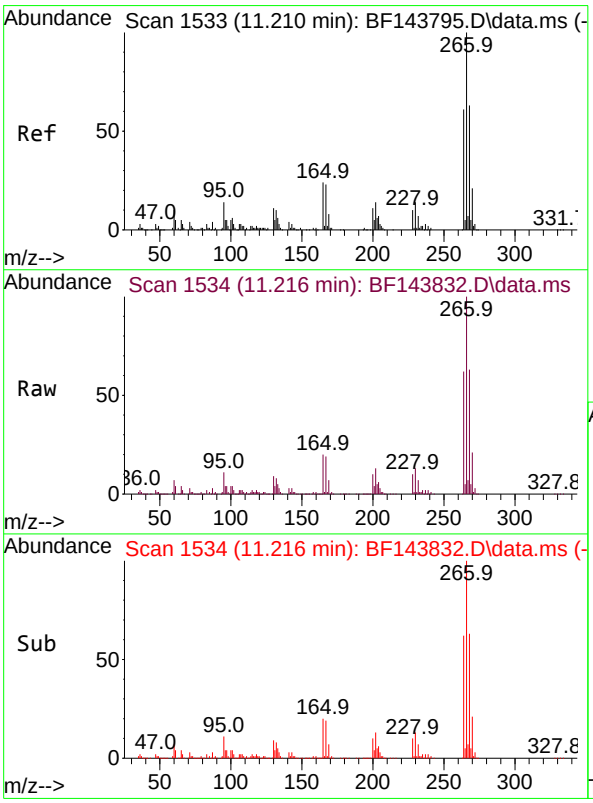
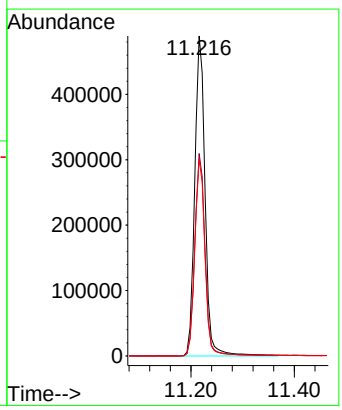
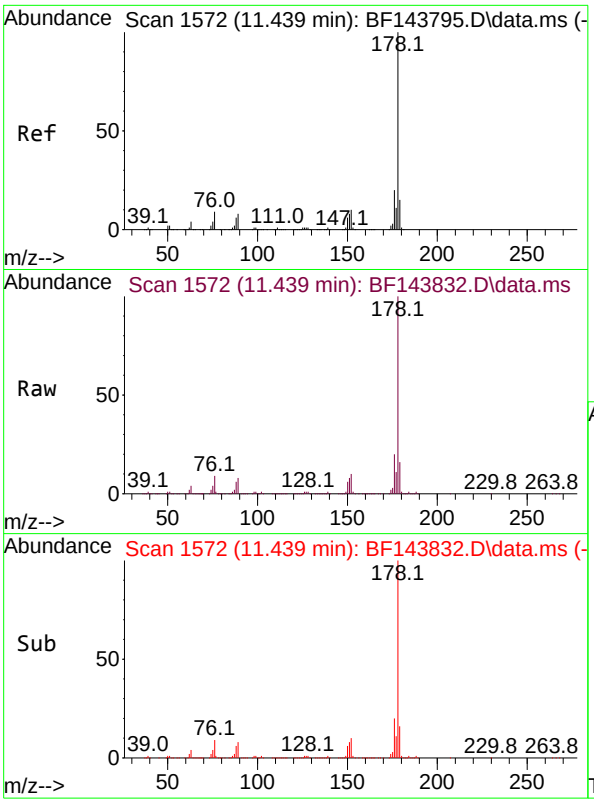


#70
Pentachlorophenol
Concen: 104.047 ng
RT: 11.216 min Scan# 1534
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:266 Resp: 677583

Ion	Ratio	Lower	Upper
266	100		
268	63.2	50.5	75.7
264	61.7	48.8	73.2





#71
Phenanthrene
Concen: 42.930 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:178 Resp: 122778

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.6	23.4
179	15.8	12.2	18.4

Instrument :
BNA_F
ClientSampleId :
PB169880BS

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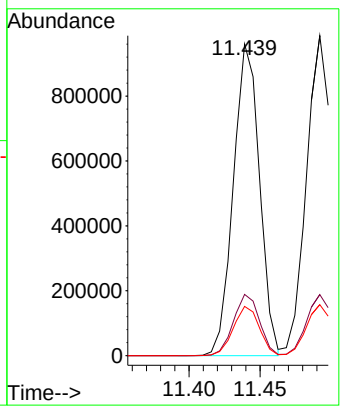
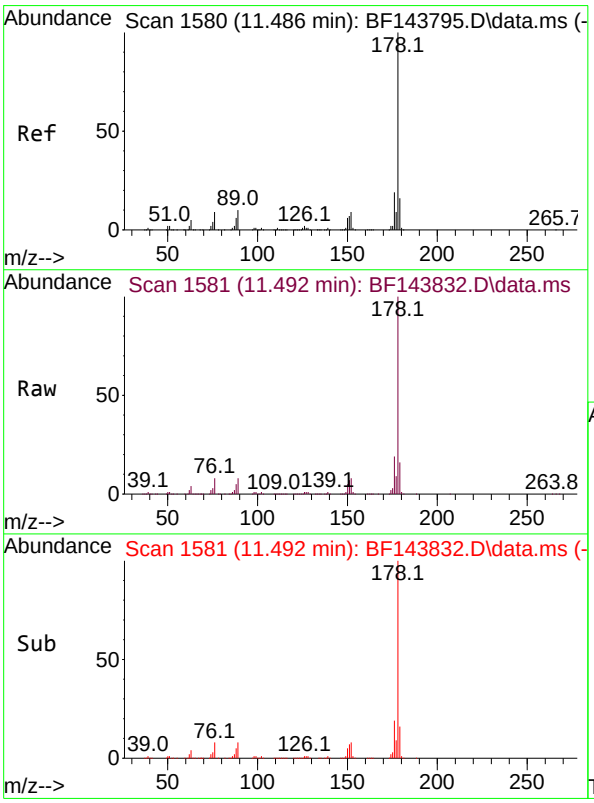
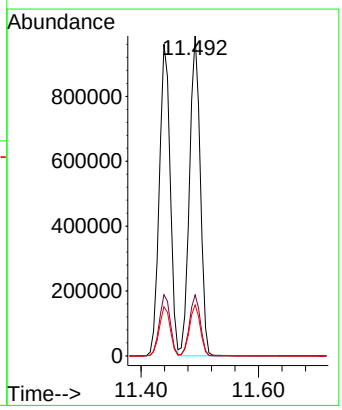


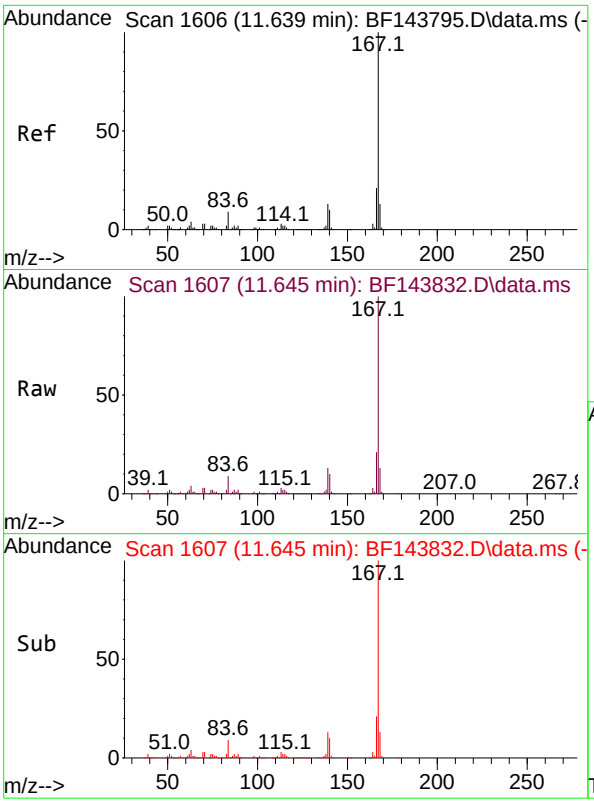


#72
Anthracene
Concen: 43.737 ng
RT: 11.492 min Scan# 1581
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:178 Resp: 1254719

Ion	Ratio	Lower	Upper
178	100		
176	19.1	15.3	22.9
179	15.9	12.8	19.2

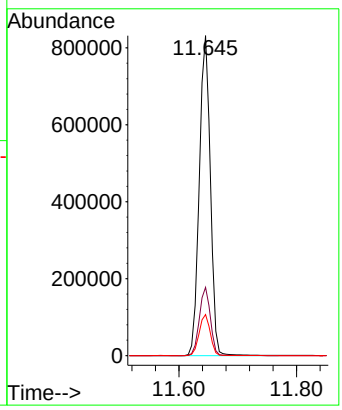




#73
Carbazole
Concen: 43.182 ng
RT: 11.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:167 Resp: 108310

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.0	25.4
139	12.8	10.6	15.8



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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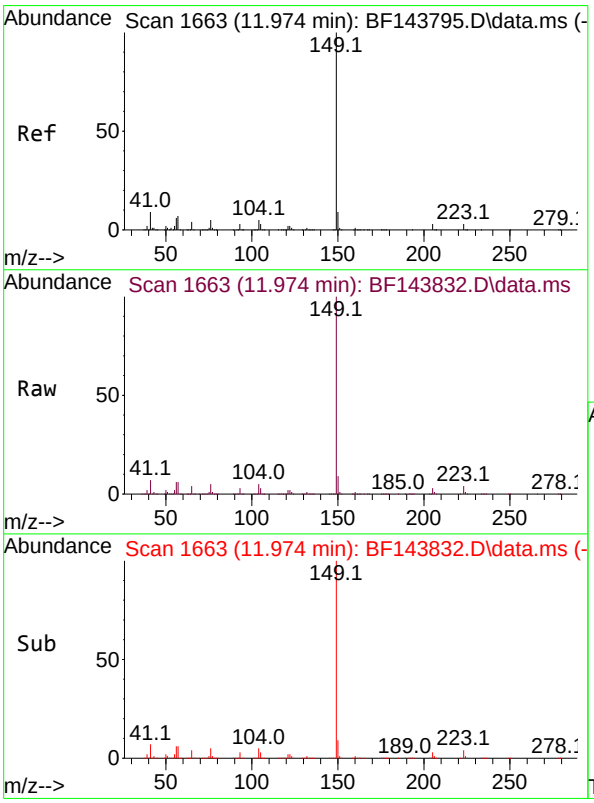
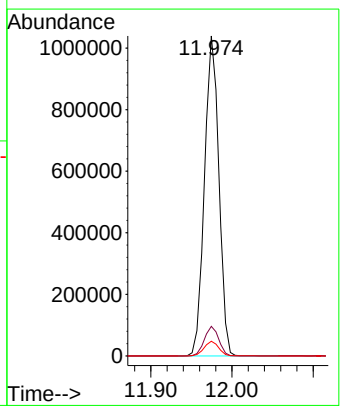
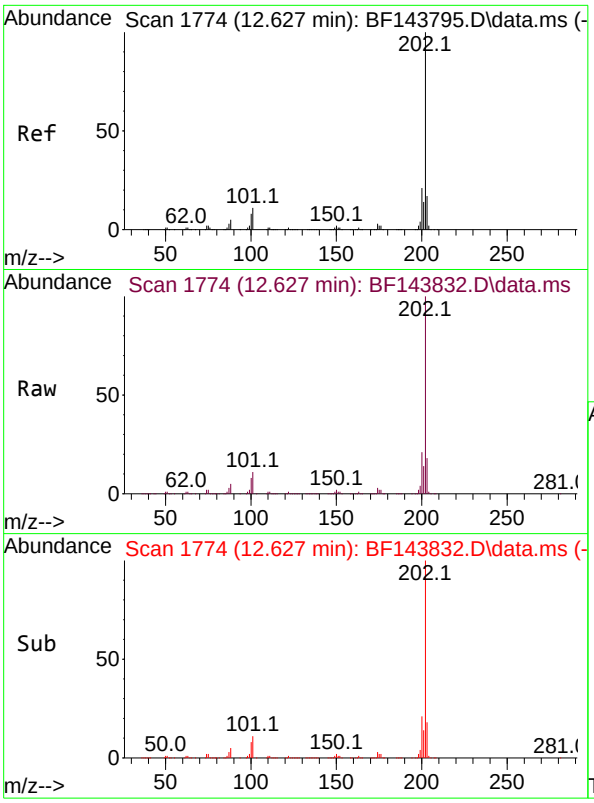


#74
Di-n-butylphthalate
Concen: 44.508 ng
RT: 11.974 min Scan# 1663
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:149 Resp: 1283897

Ion	Ratio	Lower	Upper
149	100		
150	9.2	7.3	10.9
104	4.6	3.6	5.4

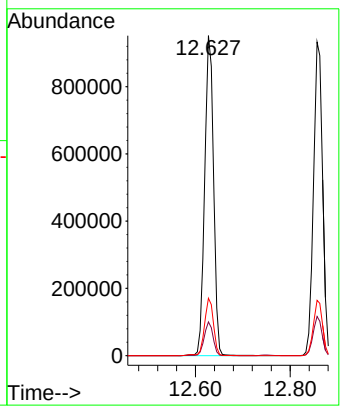




#75
Fluoranthene
Concen: 43.032 ng
RT: 12.627 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:202 Resp: 123780

Ion	Ratio	Lower	Upper
202	100		
101	10.5	0.0	31.1
203	17.9	0.0	37.4



Instrument :
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ClientSampleId :
PB169880BS

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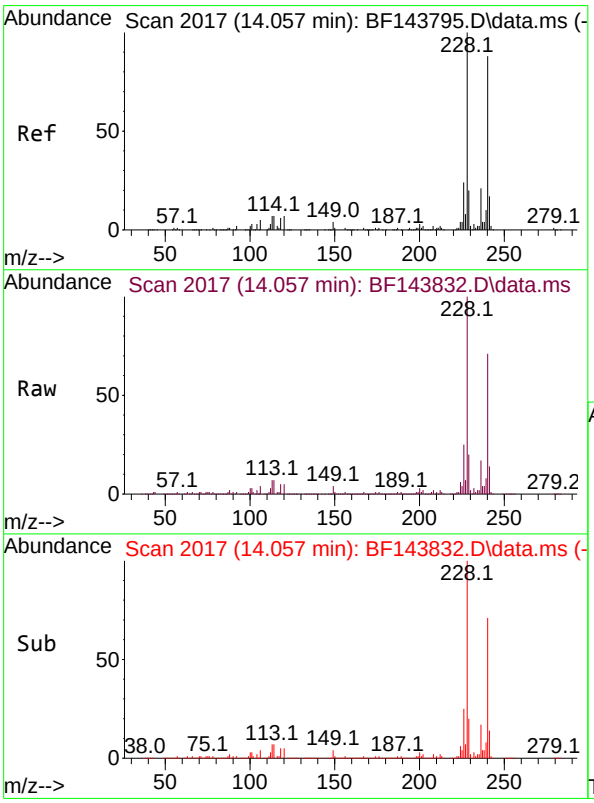
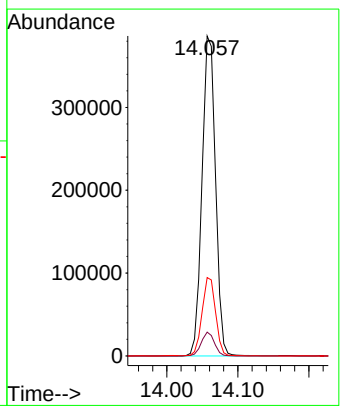
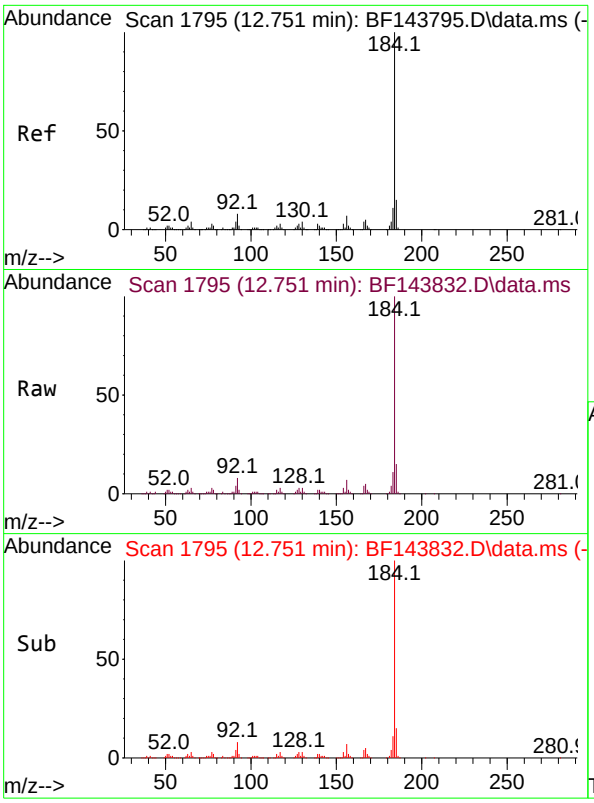


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:240 Resp: 507394

Ion	Ratio	Lower	Upper
240	100		
120	7.4	6.2	9.4
236	24.5	19.4	29.2

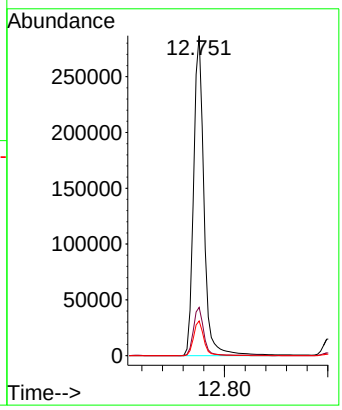




#77
Benzidine
Concen: 32.285 ng
RT: 12.751 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:184 Resp: 39917

Ion	Ratio	Lower	Upper
184	100		
185	15.1	11.6	17.4
183	10.8	8.6	13.0



Instrument :
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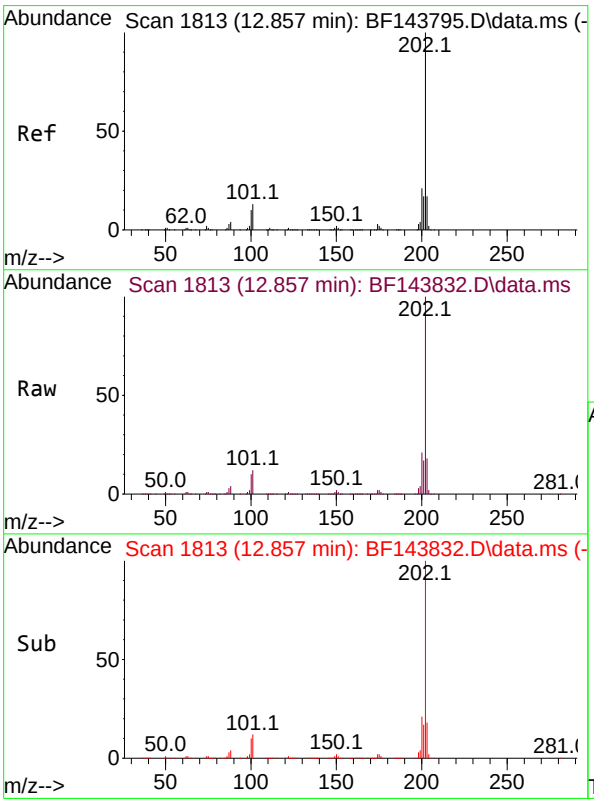
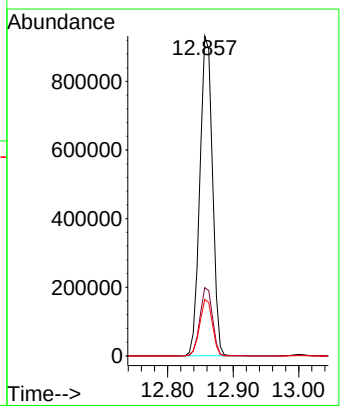
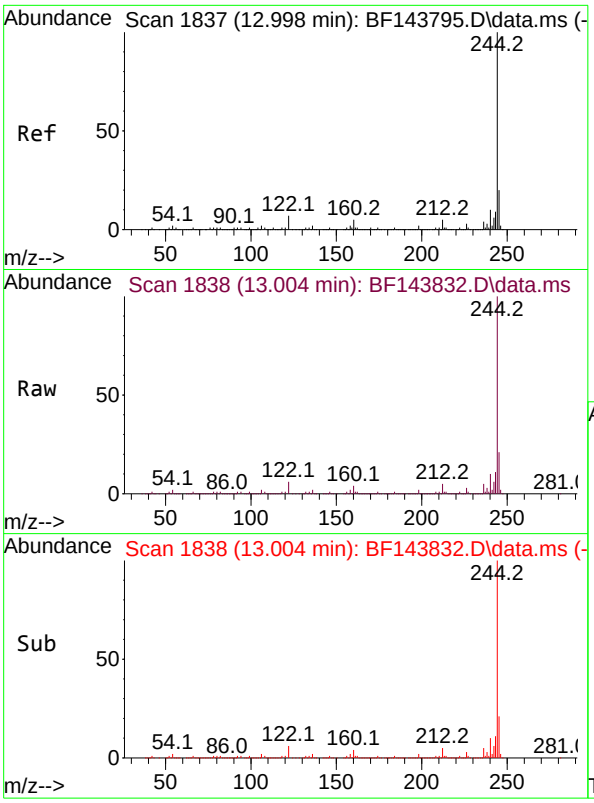


#78
Pyrene
Concen: 49.680 ng
RT: 12.857 min Scan# 1813
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:202 Resp: 1239293

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	17.6	13.9	20.9

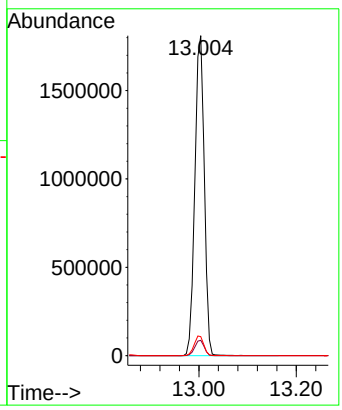




#79
Terphenyl-d14
Concen: 96.788 ng
RT: 13.004 min Scan# 18
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:244 Resp: 241473

Ion	Ratio	Lower	Upper
244	100		
212	4.8	3.9	5.9
122	6.0	5.6	8.4



Instrument :
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ClientSampleId :
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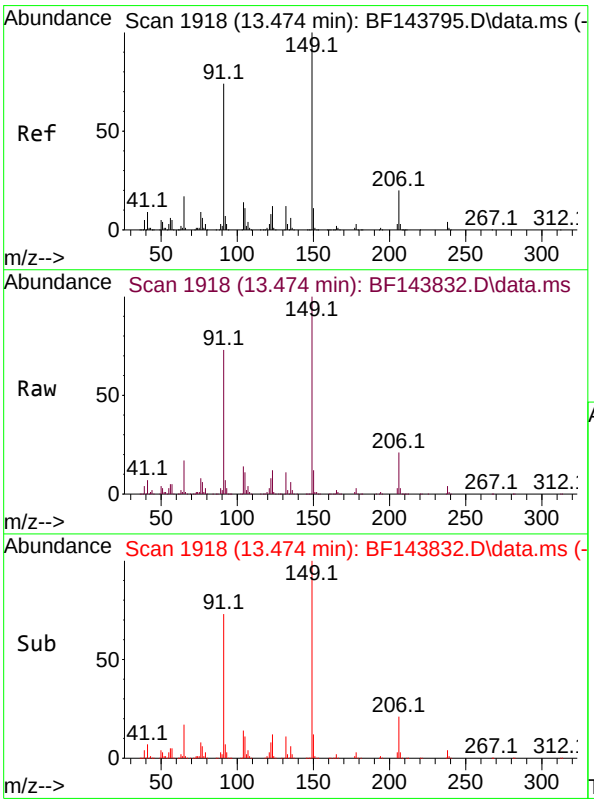
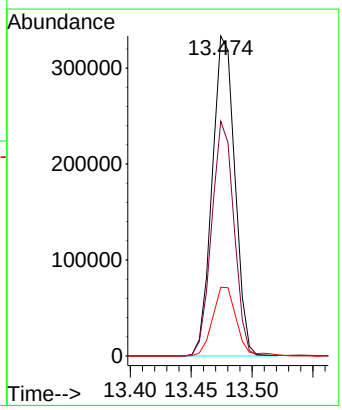
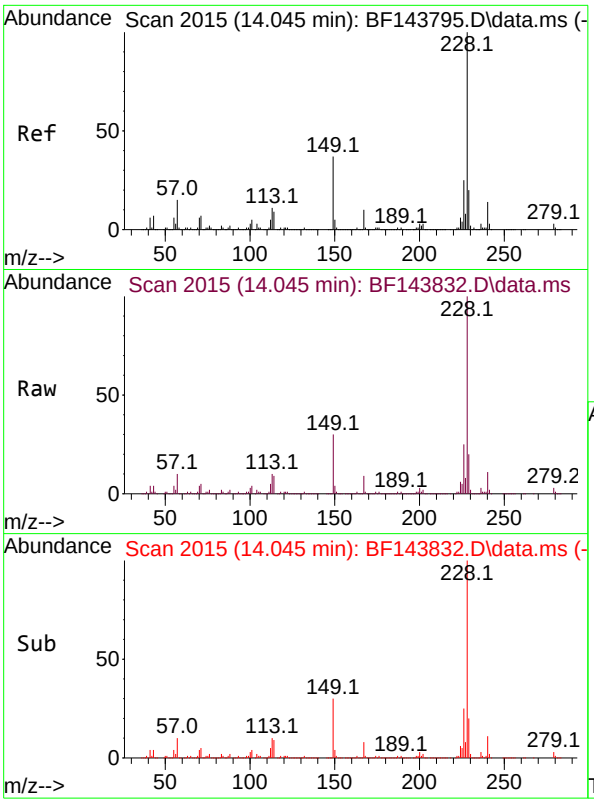


#80
Butylbenzylphthalate
Concen: 50.118 ng
RT: 13.474 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:149 Resp: 432539

Ion	Ratio	Lower	Upper
149	100		
91	73.3	59.5	89.3
206	21.4	16.1	24.1

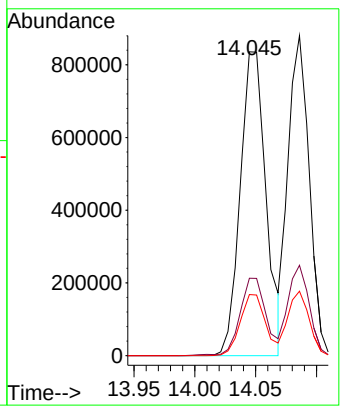




#81
Benzo(a)anthracene
Concen: 45.270 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:228 Resp: 123396

Ion	Ratio	Lower	Upper
228	100		
226	25.5	20.2	30.2
229	20.1	16.1	24.1



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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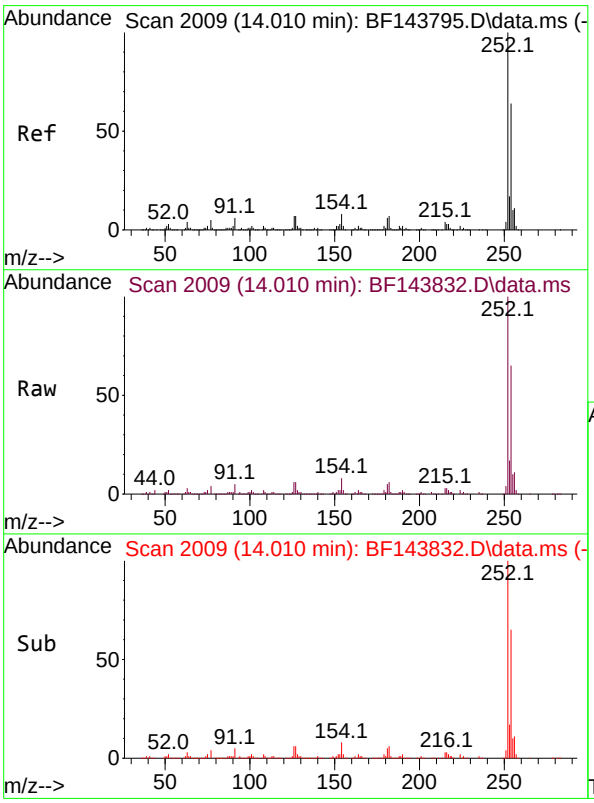
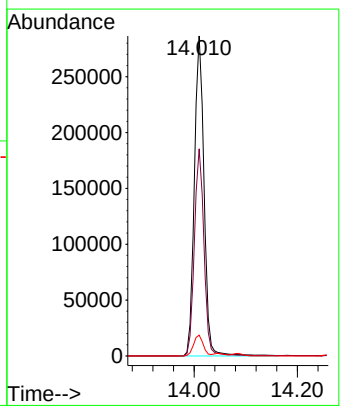
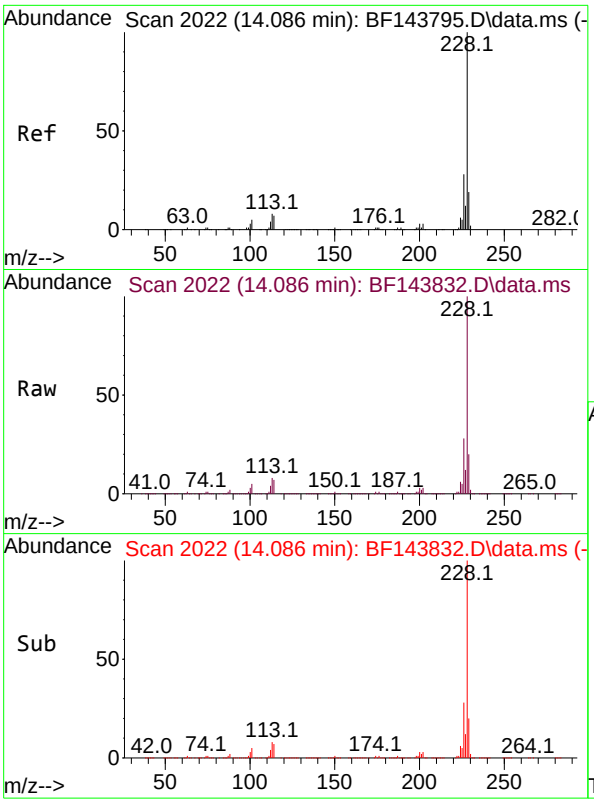


#82
3,3'-Dichlorobenzidine
Concen: 31.573 ng
RT: 14.010 min Scan# 2009
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:252 Resp: 372840

Ion	Ratio	Lower	Upper
252	100		
254	64.7	51.5	77.3
126	6.5	5.4	8.2

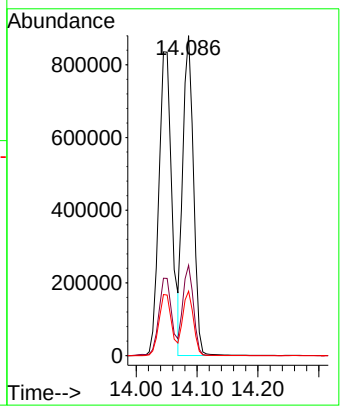




#83
Chrysene
Concen: 43.474 ng
RT: 14.086 min Scan# 2(
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:228 Resp: 107227

Ion	Ratio	Lower	Upper
228	100		
226	28.2	22.6	33.8
229	20.1	15.6	23.4



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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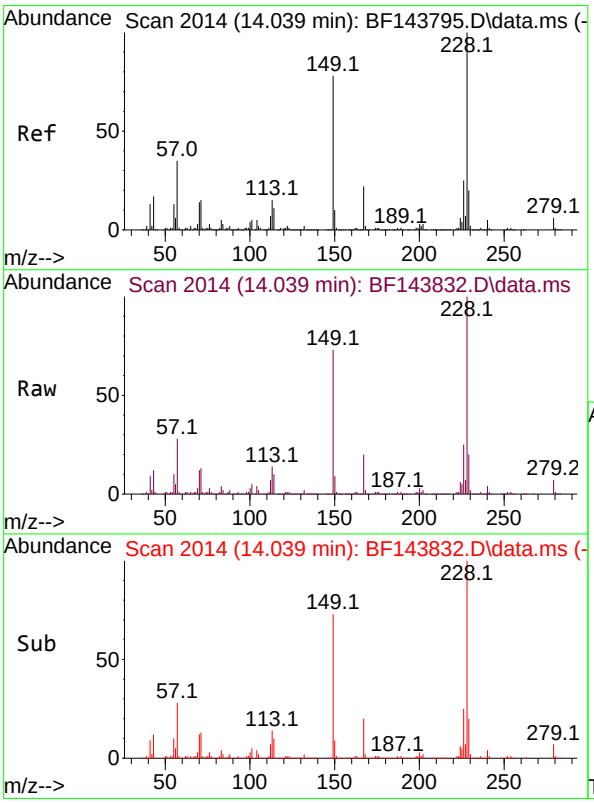
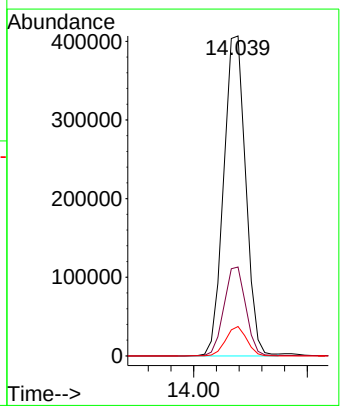
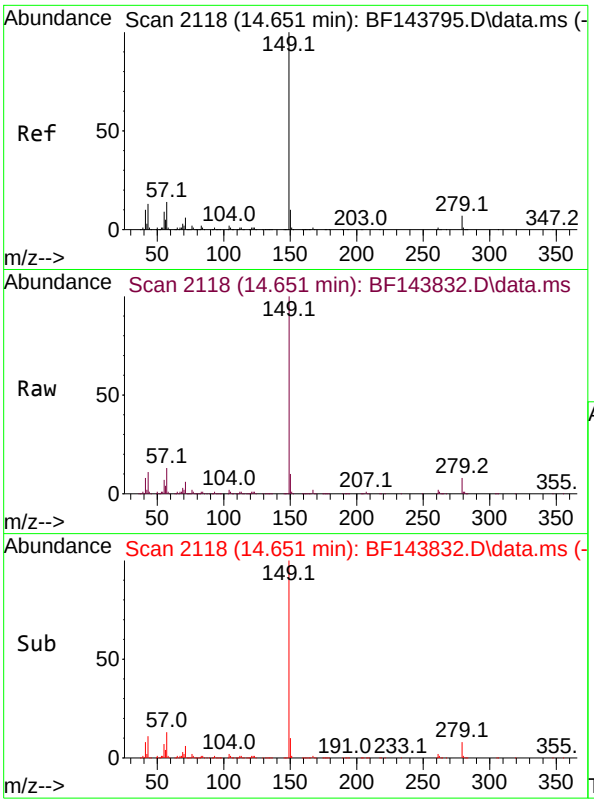


#84
Bis(2-ethylhexyl)phthalate
Concen: 43.324 ng
RT: 14.039 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:149 Resp: 548071

Ion	Ratio	Lower	Upper
149	100		
167	27.8	22.2	33.2
279	9.2	6.0	9.0#

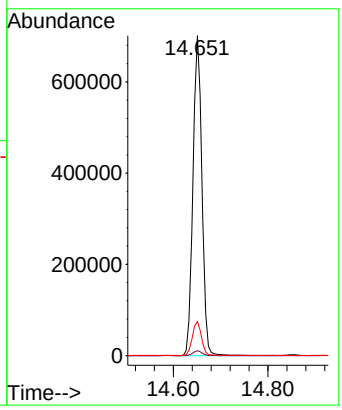




#85
Di-n-octyl phthalate
Concen: 40.183 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:149 Resp: 922091

Ion	Ratio	Lower	Upper
149	100		
167	1.5	1.1	1.7
43	10.7	10.7	16.1#



Instrument :
BNA_F
ClientSampleId :
PB169880BS

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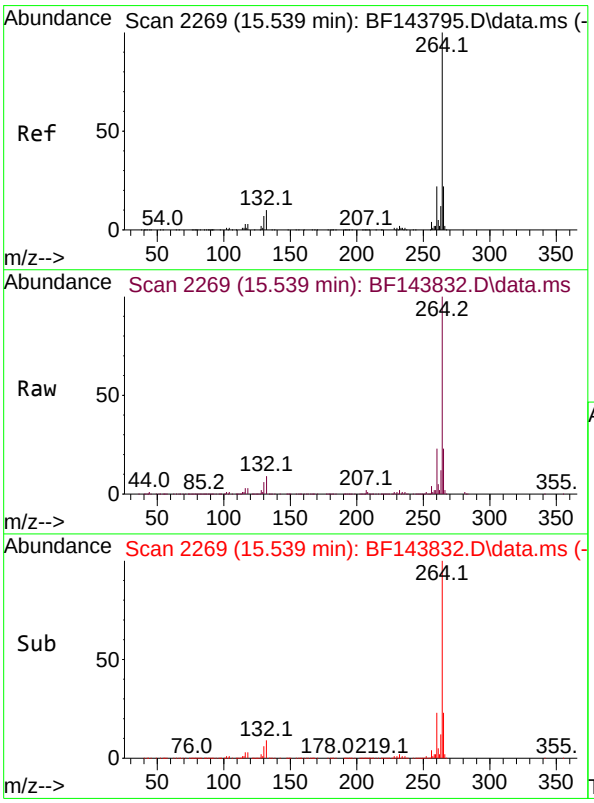
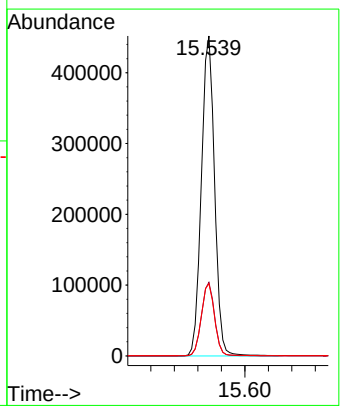
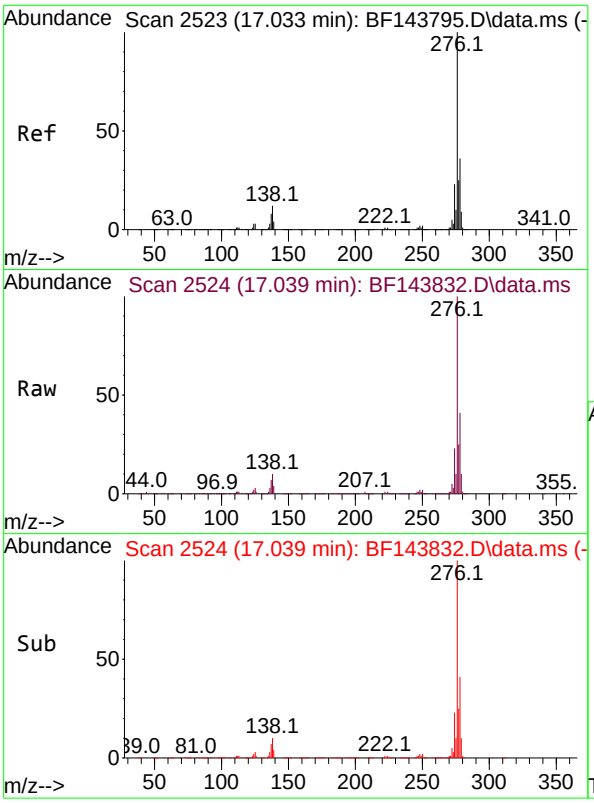


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2269
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:264 Resp: 705082

Ion	Ratio	Lower	Upper
264	100		
260	23.0	17.9	26.9
265	22.6	17.7	26.5

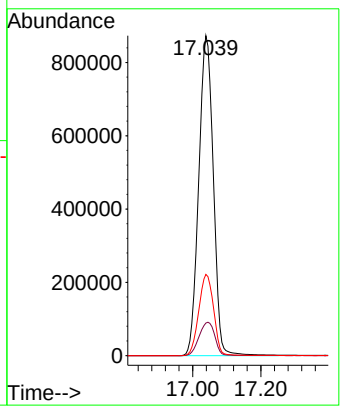




#87
Indeno(1,2,3-cd)pyrene
Concen: 48.512 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:276 Resp: 259528

Ion	Ratio	Lower	Upper
276	100		
138	11.3	10.6	15.8
277	25.8	20.7	31.1



Instrument :
BNA_F
ClientSampleId :
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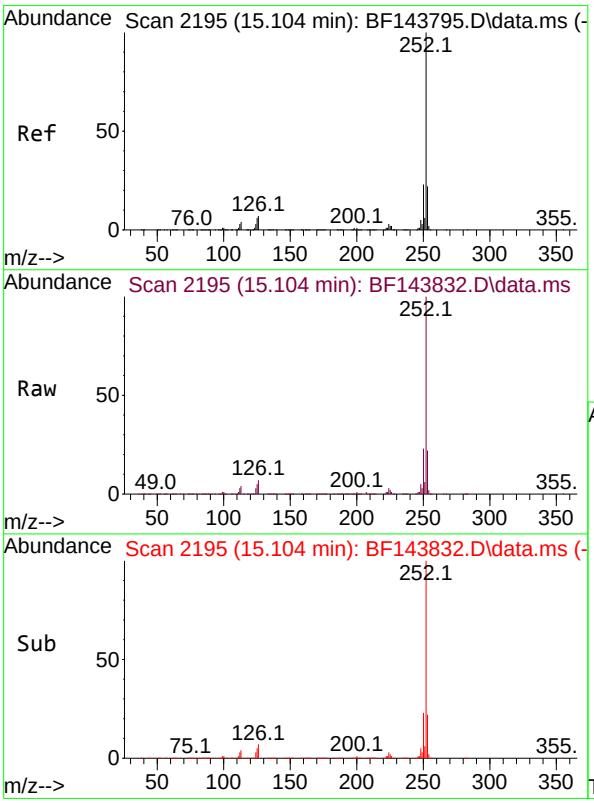
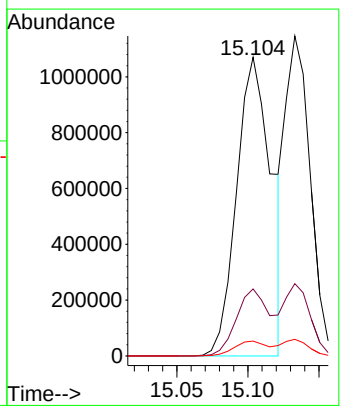
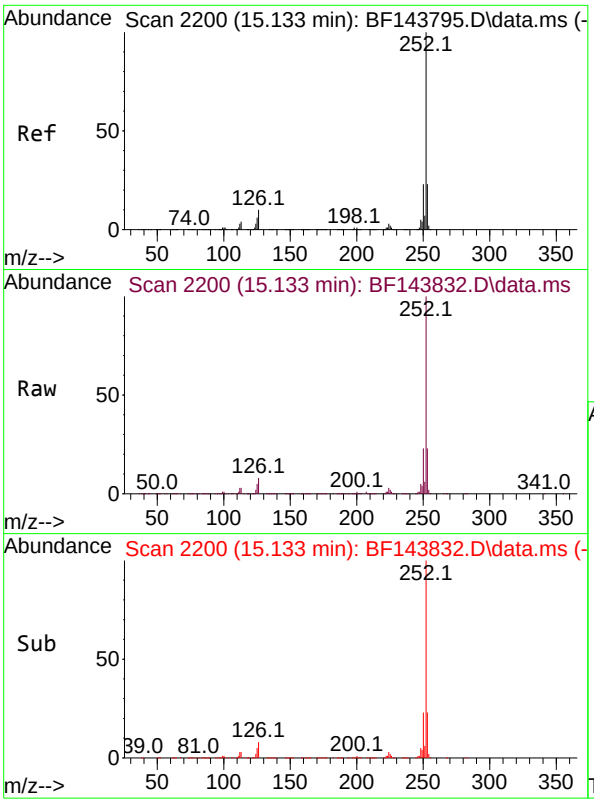


#88
Benzo(b)fluoranthene
Concen: 50.689 ng
RT: 15.104 min Scan# 2195
Delta R.T. -0.000 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:252 Resp: 1820049

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.8
125	5.0	4.4	6.6

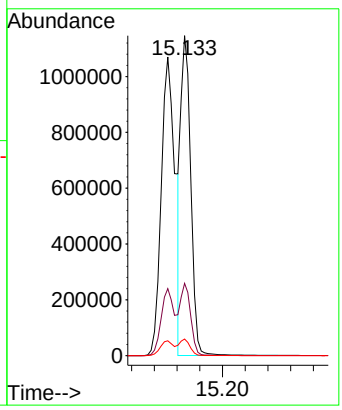




#89
Benzo(k)fluoranthene
Concen: 39.221 ng
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:252 Resp: 141483

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9
125	5.2	4.6	6.8



Instrument :
BNA_F
ClientSampleId :
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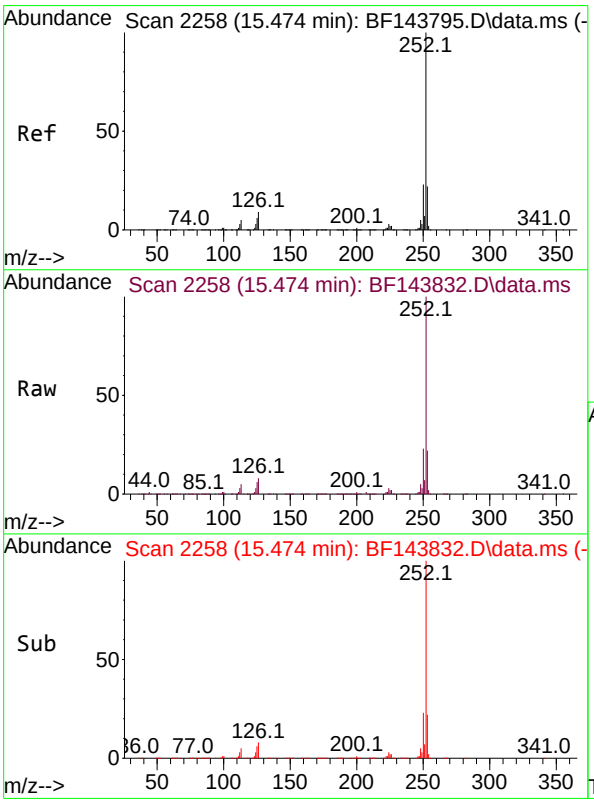
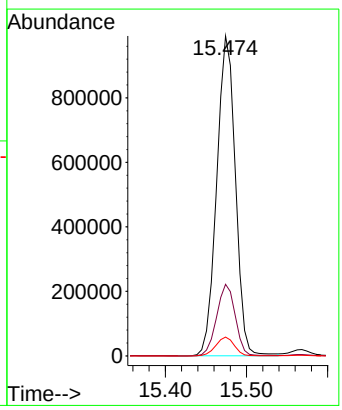
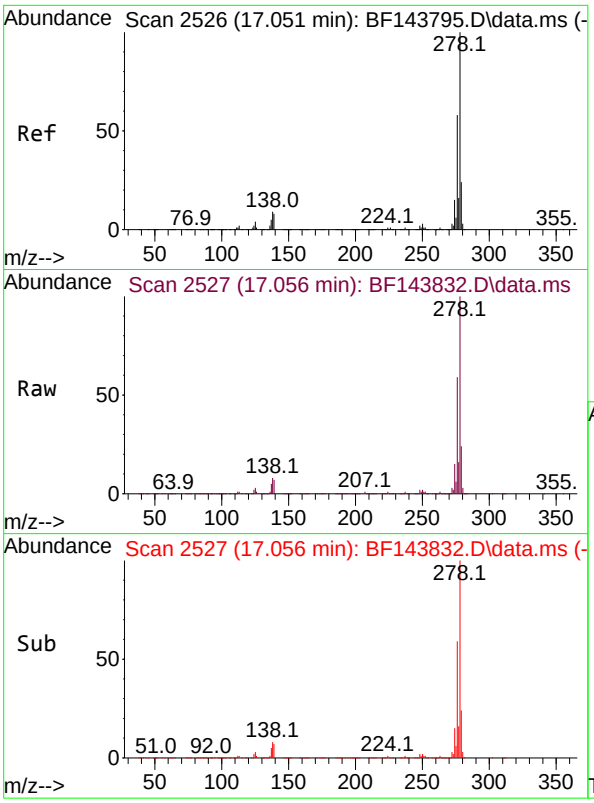


#90
Benzo(a)pyrene
Concen: 46.962 ng
RT: 15.474 min Scan# 2258
Delta R.T. -0.006 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:252 Resp: 1585027

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.6	26.4
125	5.9	5.0	7.4

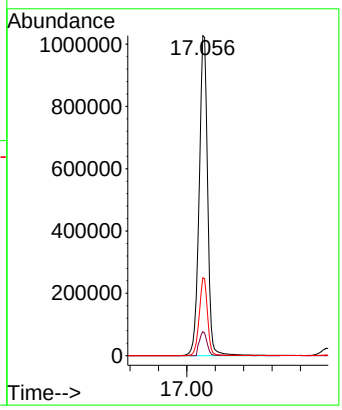




#91
Dibenzo(a,h)anthracene
Concen: 48.499 ng
RT: 17.056 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:278 Resp: 212213

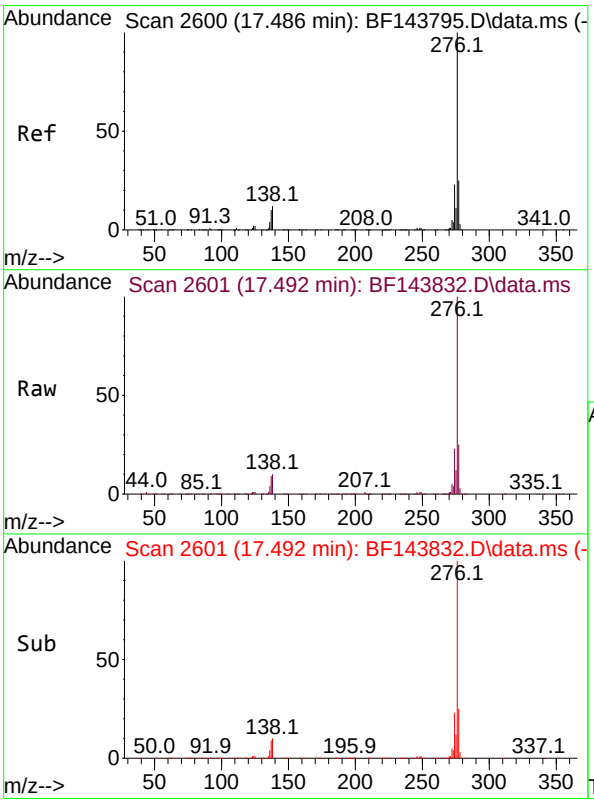
Ion	Ratio	Lower	Upper
278	100		
139	7.5	6.7	10.1
279	24.3	19.3	28.9



Instrument :
BNA_F
ClientSampleId :
PB169880BS

Manual Integrations
APPROVED

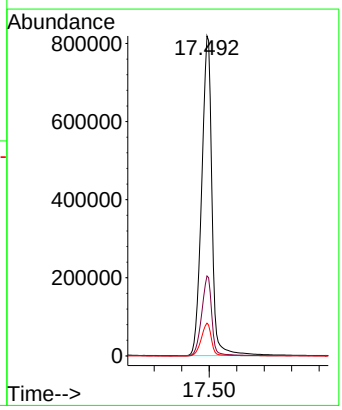
Reviewed By :Rahul Chavli 10/01/2025
Supervised By :Jagrut Upadhyay 10/01/2025



#92
Benzo(g,h,i)perylene
Concen: 50.363 ng
RT: 17.492 min Scan# 2601
Delta R.T. -0.012 min
Lab File: BF143832.D
Acq: 30 Sep 2025 14:34

Tgt Ion:276 Resp: 2124276

Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.6	29.4
138	10.2	9.2	13.8



Raw Data: **BF143839.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01MS	SDG No.:	Q3177
Lab Sample ID:	Q3179-02MS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143839.D	1	09/29/25 08:42	09/30/25 18:05	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
62-75-9	n-Nitrosodimethylamine	18.9		0.86	10.0	ug/L
110-86-1	Pyridine	19.2		1.30	5.00	ug/L
100-52-7	Benzaldehyde	30.2		3.90	10.0	ug/L
62-53-3	Aniline	26.0		1.50	5.00	ug/L
108-95-2	Phenol	17.2		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	44.9		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	38.4		0.58	5.00	ug/L
100-51-6	Benzyl Alcohol	36.8		1.60	10.0	ug/L
95-48-7	2-Methylphenol	34.4		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	39.0		1.30	5.00	ug/L
98-86-2	Acetophenone	51.8		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	30.8		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	48.2		1.40	2.50	ug/L
67-72-1	Hexachloroethane	39.0		0.65	5.00	ug/L
98-95-3	Nitrobenzene	47.3		0.76	5.00	ug/L
78-59-1	Isophorone	50.2		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	52.0		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	46.9		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	48.0		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	45.5		0.52	5.00	ug/L
65-85-0	Benzoic acid	23.7		4.20	10.0	ug/L
91-20-3	Naphthalene	43.9		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	29.9		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	43.5		0.54	5.00	ug/L
105-60-2	Caprolactam	11.8		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	45.1		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	43.4		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	110	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	51.1		0.51	5.00	ug/L

Raw Data: **BF143839.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01MS	SDG No.:	Q3177
Lab Sample ID:	Q3179-02MS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143839.D	1	09/29/25 08:42	09/30/25 18:05	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-95-4	2,4,5-Trichlorophenol	49.4		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	50.2		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	45.5		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	60.6		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	51.7		0.61	5.00	ug/L
208-96-8	Acenaphthylene	54.0		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	67.7		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	41.0		1.10	5.00	ug/L
83-32-9	Acenaphthene	51.2		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	110	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	37.8		2.40	10.0	ug/L
132-64-9	Dibenzofuran	48.7		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	60.7		1.20	5.00	ug/L
84-66-2	Diethylphthalate	51.9		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	50.9		0.68	5.00	ug/L
86-73-7	Fluorene	50.3		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	59.9		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	61.8		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	48.9		0.58	5.00	ug/L
103-33-3	Azobenzene	50.7		0.81	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	53.3		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	54.6		0.52	5.00	ug/L
1912-24-9	Atrazine	53.2		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	110	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	47.5		0.50	5.00	ug/L
120-12-7	Anthracene	48.4		0.61	5.00	ug/L
86-74-8	Carbazole	47.8		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	48.4		1.20	5.00	ug/L
206-44-0	Fluoranthene	48.1		0.82	5.00	ug/L
92-87-5	Benzidine	23.0		4.30	10.0	ug/L
129-00-0	Pyrene	58.3		0.50	5.00	ug/L

Raw Data: **BF143839.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01MS	SDG No.:	Q3177
Lab Sample ID:	Q3179-02MS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143839.D	1	09/29/25 08:42	09/30/25 18:05	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
85-68-7	Butylbenzylphthalate	54.4		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	39.4		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	51.2		0.45	5.00	ug/L
218-01-9	Chrysene	48.0		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	44.2		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	39.2		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	55.3		0.49	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	43.5		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	52.0		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	52.3		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	52.6		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	54.6		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	50.4		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	19.3		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	61.8		0.72	5.00	ug/L
90-12-0	1-Methylnaphthalene	46.2		0.66	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	60.4		23 - 138	40%	SPK: 150
13127-88-3	Phenol-d6	41.0		10 - 134	27%	SPK: 150
4165-60-0	Nitrobenzene-d5	92.4		67 - 132	92%	SPK: 100
321-60-8	2-Fluorobiphenyl	85.4		52 - 132	85%	SPK: 100
118-79-6	2,4,6-Tribromophenol	129		44 - 137	86%	SPK: 150
1718-51-0	Terphenyl-d14	109		42 - 152	109%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	151000	6.887			
1146-65-2	Naphthalene-d8	576000	8.169			
15067-26-2	Acenaphthene-d10	308000	9.928			
1517-22-2	Phenanthrene-d10	525000	11.416			
1719-03-5	Chrysene-d12	455000	14.057			
1520-96-3	Perylene-d12	662000	15.539			

Raw Data: **BF143839.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01MS	SDG No.:	Q3177
Lab Sample ID:	Q3179-02MS	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup : N	PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143839.D	1	09/29/25 08:42	09/30/25 18:05	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143839.D
Acq On : 30 Sep 2025 18:05
Operator : RC/JU
Sample : Q3179-02MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Quant Time: Sep 30 18:27:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.887	152	150523	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	576047	20.000	ng		0.00
39) Acenaphthene-d10	9.928	164	308449	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	524531	20.000	ng		0.00
76) Chrysene-d12	14.057	240	454958	20.000	ng		0.00
86) Perylene-d12	15.539	264	661650	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	559179	60.356	ng		0.00
7) Phenol-d6	6.498	99	438524	40.965	ng		-0.01
23) Nitrobenzene-d5	7.445	82	869610	92.406	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	588412	128.838	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1688317	85.415	ng		0.00
79) Terphenyl-d14	12.998	244	2427768	108.526	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.681	88	85748	19.337	ng		96
3) Pyridine	3.446	79	230334	19.243	ng		90
4) n-Nitrosodimethylamine	3.381	42	113206	18.861	ng		81
6) Aniline	6.545	93	404468	26.033	ng		99
8) 2-Chlorophenol	6.669	128	363871	38.364	ng		98
9) Benzaldehyde	6.434	77	282636	30.150	ng		97
10) Phenol	6.516	94	214211	17.216	ng		97
11) bis(2-Chloroethyl)ether	6.616	93	438144	44.922	ng		100
12) 1,3-Dichlorobenzene	6.828	146	441405	40.083	ng		99
13) 1,4-Dichlorobenzene	6.904	146	449539	40.905	ng		99
14) 1,2-Dichlorobenzene	7.057	146	437501	42.033	ng		99
15) Benzyl Alcohol	7.022	79	284429	36.772	ng		99
16) 2,2'-oxybis(1-Chloropr...	7.157	45	901229	38.967	ng		96
17) 2-Methylphenol	7.134	107	252915	34.443	ng		99
18) Hexachloroethane	7.398	117	150885	39.040	ng		96
19) n-Nitroso-di-n-propyla...	7.298	70	331627	48.176	ng		89
20) 3+4-Methylphenols	7.287	107	275152	30.770	ng	#	53
22) Acetophenone	7.292	105	654994	51.769	ng		93
24) Nitrobenzene	7.469	77	493463	47.307	ng		96
25) Isophorone	7.704	82	921018	50.223	ng		99
26) 2-Nitrophenol	7.781	139	223709	51.999	ng		95
27) 2,4-Dimethylphenol	7.816	122	384384	46.895	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	571543	47.971	ng		100
29) 2,4-Dichlorophenol	8.022	162	366701	45.467	ng		100
30) 1,2,4-Trichlorobenzene	8.110	180	389162	46.495	ng		99
31) Naphthalene	8.192	128	1211262	43.924	ng		100
32) Benzoic acid	7.892	122	93818	23.723	ng		95
33) 4-Chloroaniline	8.234	127	290186	29.945	ng		99
34) Hexachlorobutadiene	8.310	225	271159	43.458	ng		100
35) Caprolactam	8.598	113	24243	11.760	ng	#	90
36) 4-Chloro-3-methylphenol	8.710	107	341433	45.138	ng		99
37) 2-Methylnaphthalene	8.881	142	762835	43.383	ng		99
38) 1-Methylnaphthalene	8.981	142	777318	46.185	ng		98
40) 1,2,4,5-Tetrachloroben...	9.051	216	468983	50.382	ng		99
41) Hexachlorocyclopentadiene	9.034	237	659206	111.741	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	297887	51.108	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143839.D
Acq On : 30 Sep 2025 18:05
Operator : RC/JU
Sample : Q3179-02MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Quant Time: Sep 30 18:27:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

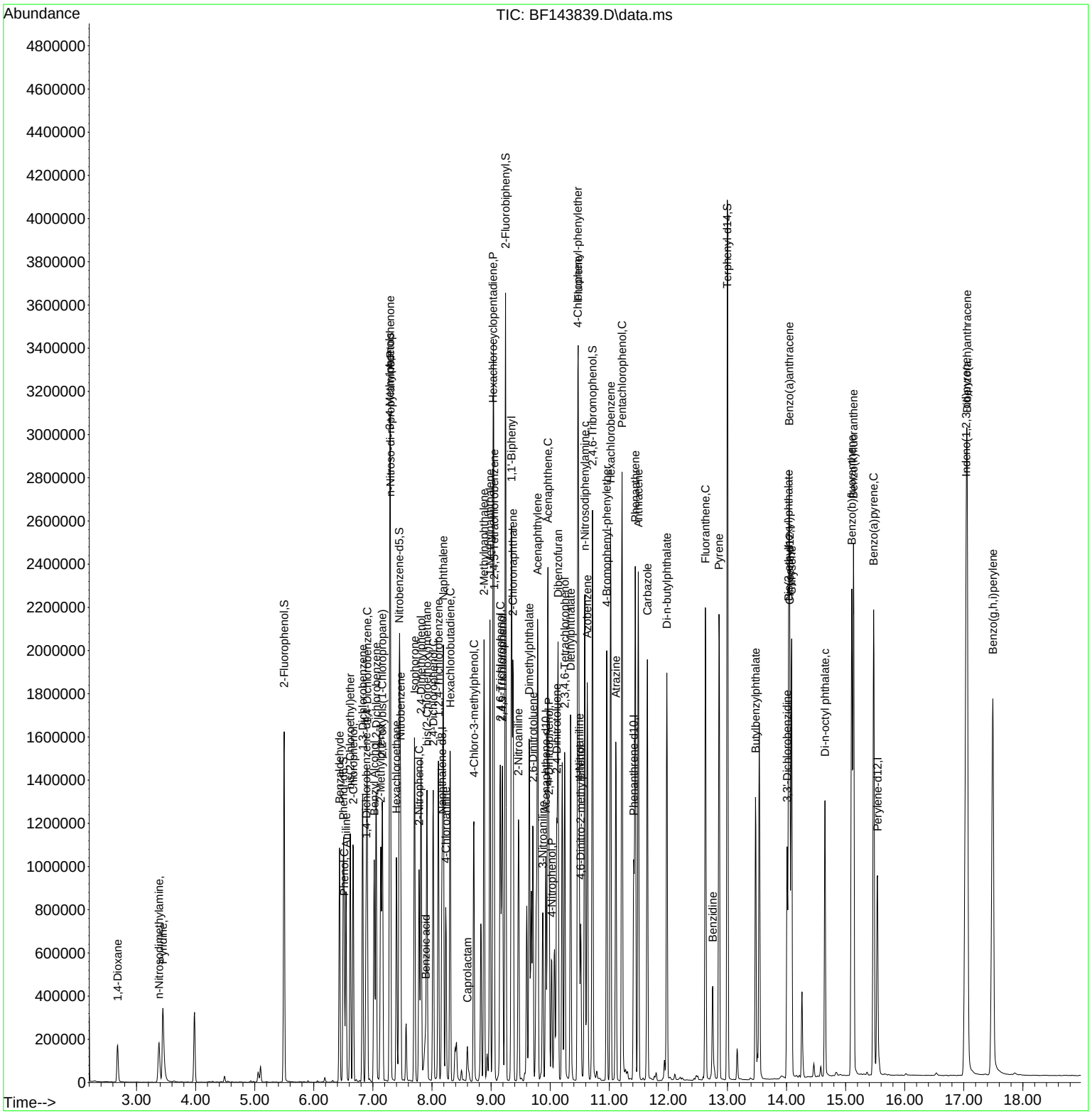
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	301093	49.387	ng		99
46) 1,1'-Biphenyl	9.345	154	1120524	50.185	ng		99
47) 2-Chloronaphthalene	9.369	162	818200	45.524	ng		99
48) 2-Nitroaniline	9.463	65	329095	60.584	ng		100
49) Acenaphthylene	9.786	152	1335351	53.971	ng		100
50) Dimethylphthalate	9.645	163	971315	51.666	ng		100
51) 2,6-Dinitrotoluene	9.710	165	209259	67.747	ng		92
52) Acenaphthene	9.963	154	832944	51.157	ng		99
53) 3-Nitroaniline	9.875	138	153465	40.989	ng		97
54) 2,4-Dinitrophenol	9.981	184	180940	110.555	ng	#	23
55) Dibenzofuran	10.133	168	1121195	48.697	ng		99
56) 4-Nitrophenol	10.028	139	114085	37.813	ng		91
57) 2,4-Dinitrotoluene	10.110	165	282053	60.698	ng		95
58) Fluorene	10.475	166	860723	50.286	ng		98
59) 2,3,4,6-Tetrachlorophenol	10.245	232	322978	61.840	ng		95
60) Diethylphthalate	10.345	149	913166	51.889	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	443846	50.892	ng		94
62) 4-Nitroaniline	10.492	138	210711	59.854	ng		95
63) Azobenzene	10.628	77	940116	50.688	ng		96
65) 4,6-Dinitro-2-methylph...	10.516	198	128497	61.799	ng		86
66) n-Nitrosodiphenylamine	10.586	169	842925	48.865	ng		99
67) 4-Bromophenyl-phenylether	10.957	248	476173	53.270	ng		96
68) Hexachlorobenzene	11.022	284	672756	54.613	ng		98
69) Atrazine	11.110	200	265604	53.170	ng		98
70) Pentachlorophenol	11.216	266	704887	114.953	ng		100
71) Phenanthrene	11.439	178	1278544	47.478	ng		99
72) Anthracene	11.492	178	1307493	48.404	ng		100
73) Carbazole	11.645	167	1128457	47.781	ng		100
74) Di-n-butylphthalate	11.975	149	1314339	48.389	ng		99
75) Fluoranthene	12.627	202	1301831	48.065	ng		99
77) Benzidine	12.751	184	255230	23.022	ng		99
78) Pyrene	12.857	202	1303227	58.264	ng		99
80) Butylbenzylphthalate	13.474	149	420988	54.401	ng		98
81) Benzo(a)anthracene	14.045	228	1251024	51.185	ng		99
82) 3,3'-Dichlorobenzidine	14.010	252	417555	39.435	ng		100
83) Chrysene	14.086	228	1062486	48.042	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	501367	44.200	ng		99
85) Di-n-octyl phthalate	14.651	149	806850	39.214	ng	#	94
87) Indeno(1,2,3-cd)pyrene	17.039	276	2624823	52.285	ng		98
88) Benzo(b)fluoranthene	15.104	252	1864727	55.342	ng		100
89) Benzo(k)fluoranthene	15.133	252	1471424	43.467	ng		99
90) Benzo(a)pyrene	15.474	252	1646318	51.980	ng		99
91) Dibenzo(a,h)anthracene	17.057	278	2157767	52.551	ng		99
92) Benzo(g,h,i)perylene	17.492	276	2161490	54.609	ng		98

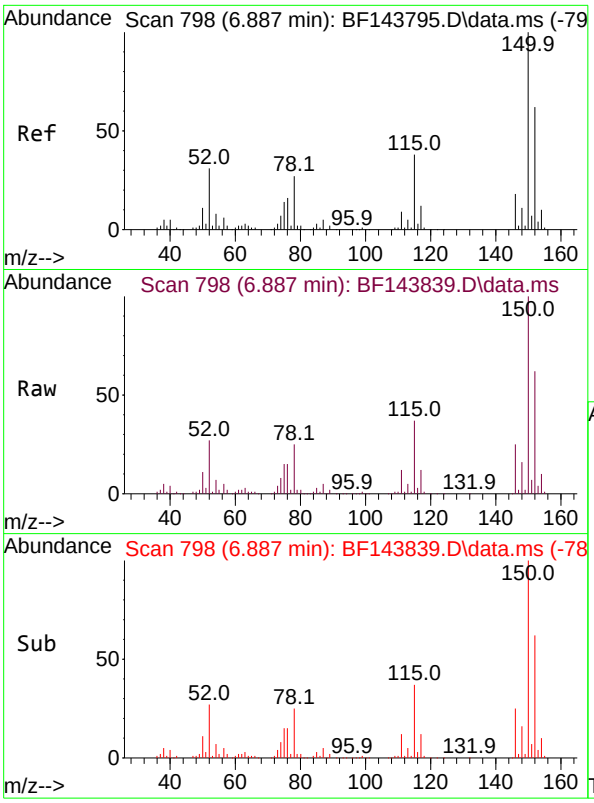
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143839.D
Acq On : 30 Sep 2025 18:05
Operator : RC/JU
Sample : Q3179-02MS
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Quant Time: Sep 30 18:27:04 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration



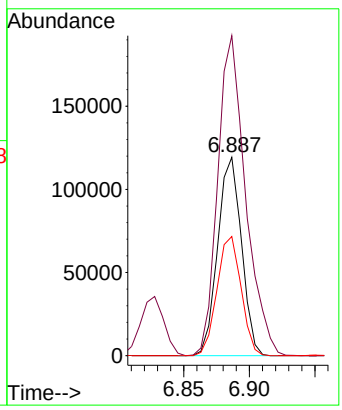


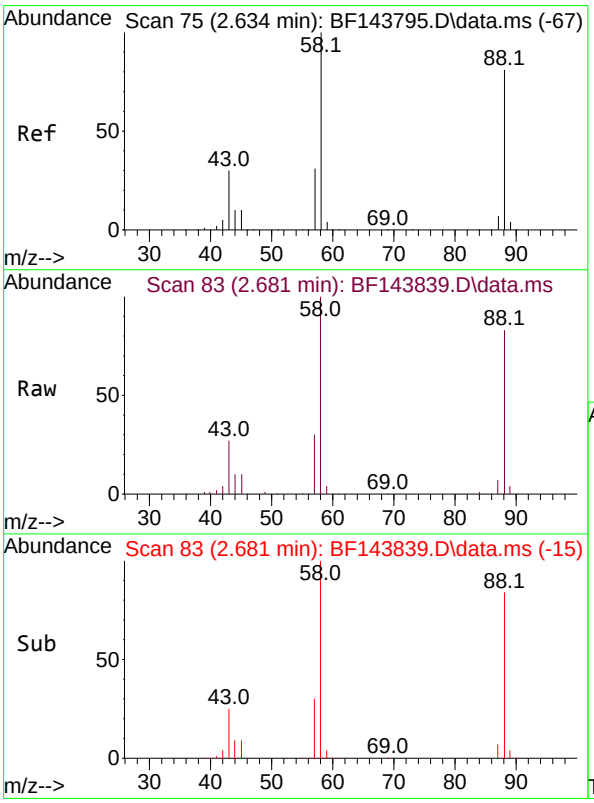
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.887 min Scan# 79
Delta R.T. -0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:152 Resp: 150523

Ion	Ratio	Lower	Upper
152	100		
150	161.3	129.6	194.4
115	60.0	49.0	73.4

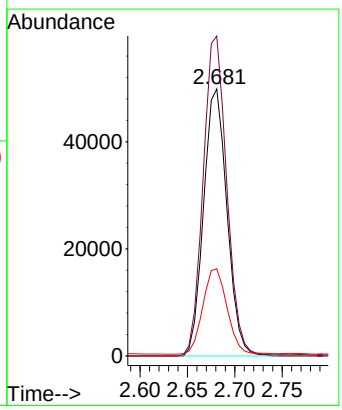


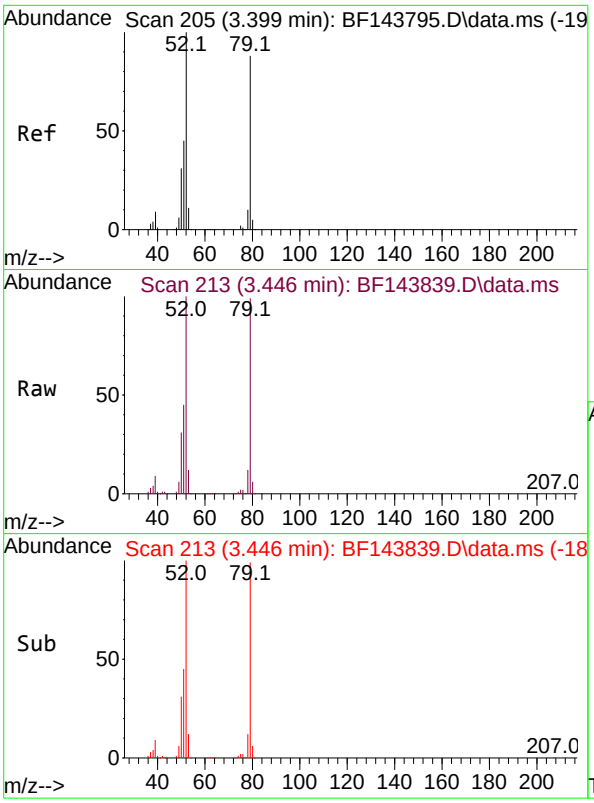


#2
1,4-Dioxane
Concen: 19.337 ng
RT: 2.681 min Scan# 83
Delta R.T. 0.047 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion: 88 Resp: 85748

Ion	Ratio	Lower	Upper
88	100		
58	120.9	99.4	149.2
43	33.1	30.6	45.8



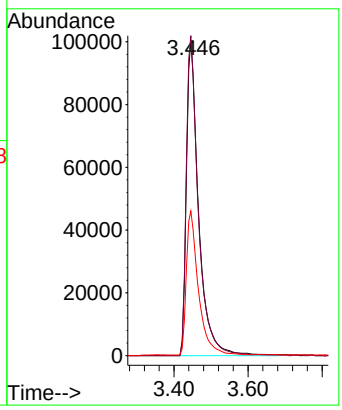


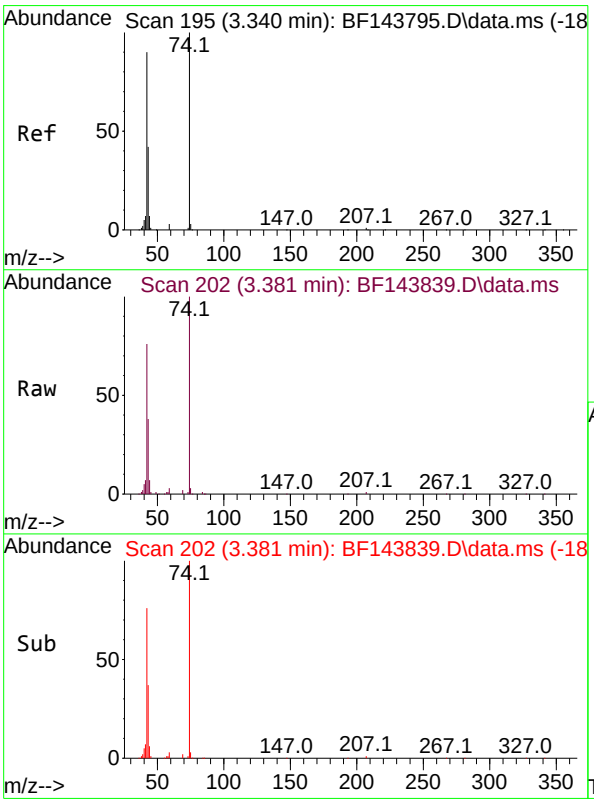
#3
Pyridine
Concen: 19.243 ng
RT: 3.446 min Scan# 21
Delta R.T. 0.047 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion: 79 Resp: 230334

Ion	Ratio	Lower	Upper
79	100		
52	101.5	90.5	135.7
51	45.9	40.6	61.0

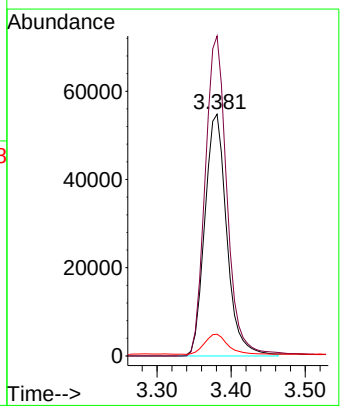


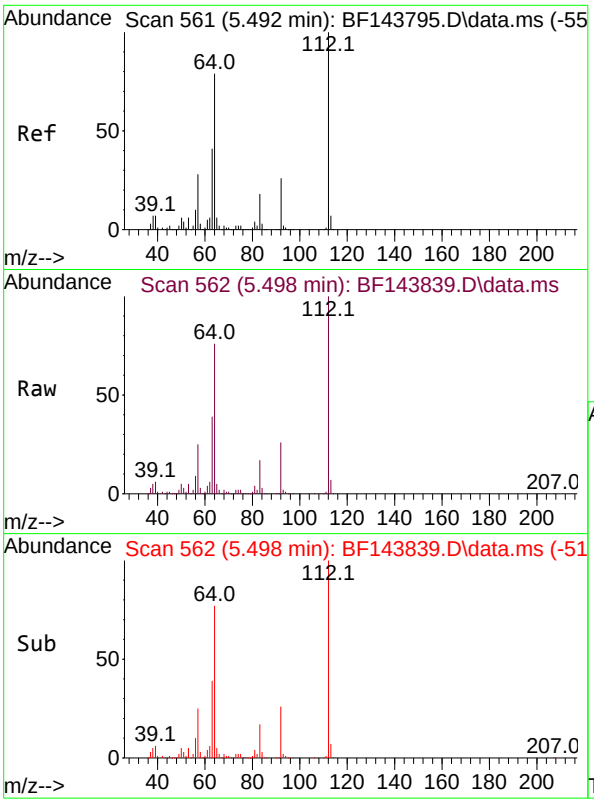


#4
n-Nitrosodimethylamine
Concen: 18.861 ng
RT: 3.381 min Scan# 202
Delta R.T. 0.024 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion: 42 Resp: 113206

Ion	Ratio	Lower	Upper
42	100		
74	132.4	89.1	133.7
44	9.0	6.4	9.6



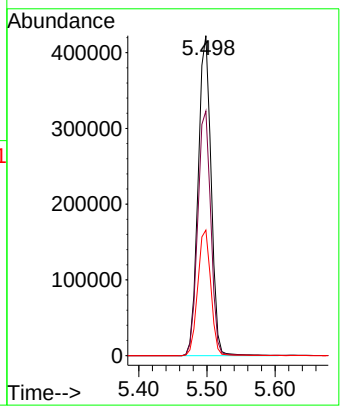


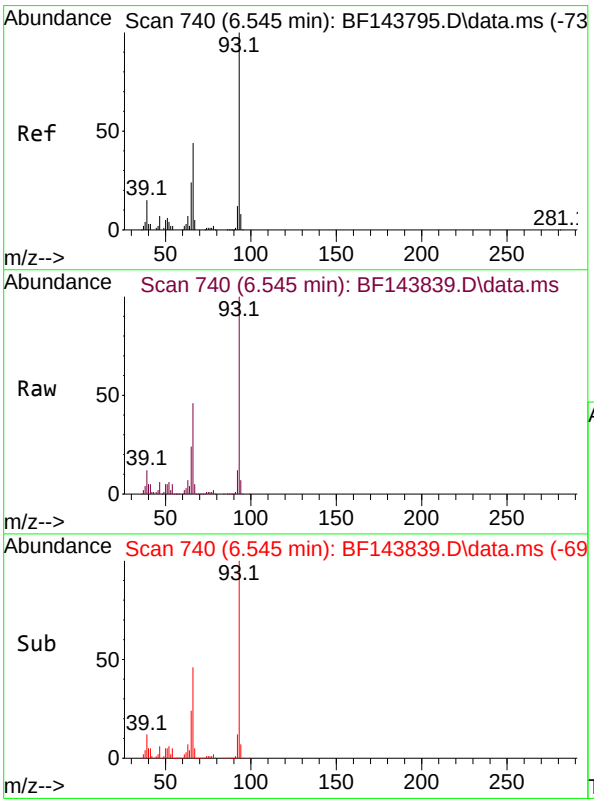
#5
2-Fluorophenol
Concen: 60.356 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:112 Resp: 559179

Ion	Ratio	Lower	Upper
112	100		
64	76.4	63.0	94.4
63	39.2	32.6	49.0

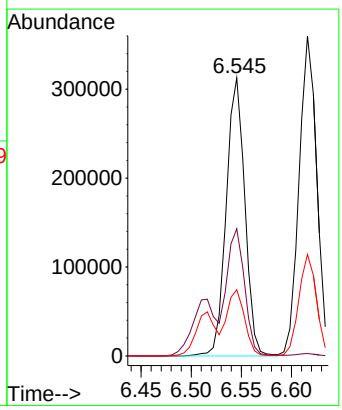


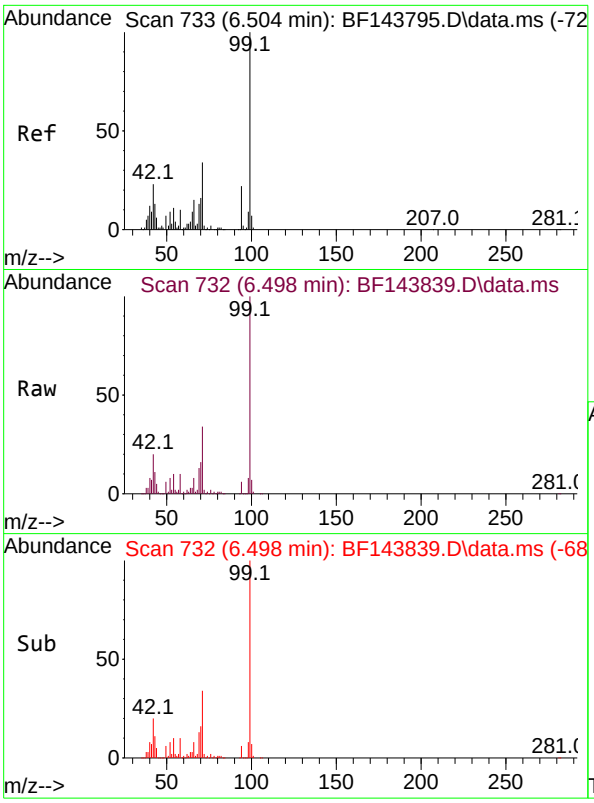


#6
Aniline
Concen: 26.033 ng
RT: 6.545 min Scan# 740
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion: 93 Resp: 404468

Ion	Ratio	Lower	Upper
93	100		
66	45.7	37.1	55.7
65	23.8	19.4	29.0



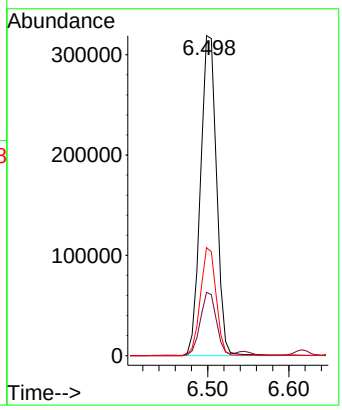


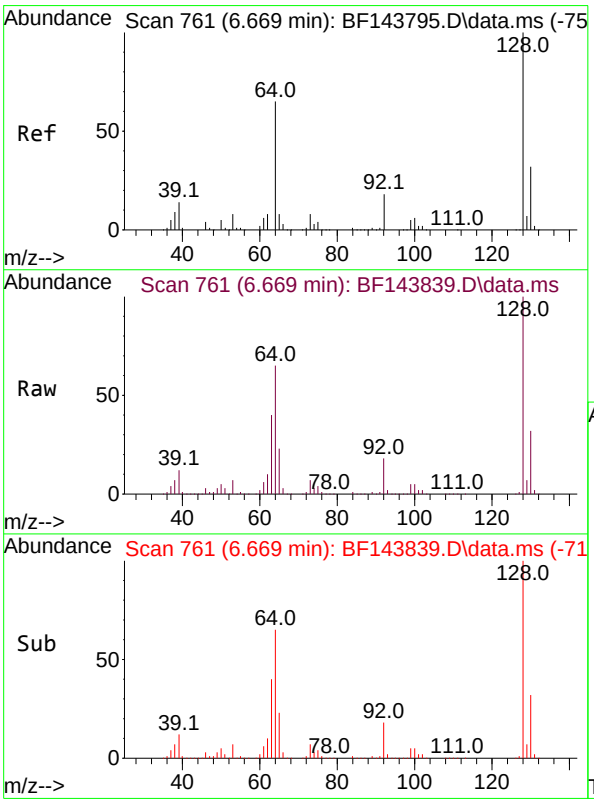
#7
Phenol-d6
Concen: 40.965 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion: 99 Resp: 438524

Ion	Ratio	Lower	Upper
99	100		
42	19.8	18.6	28.0
71	33.7	27.0	40.4

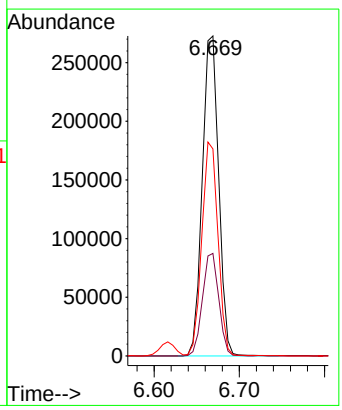


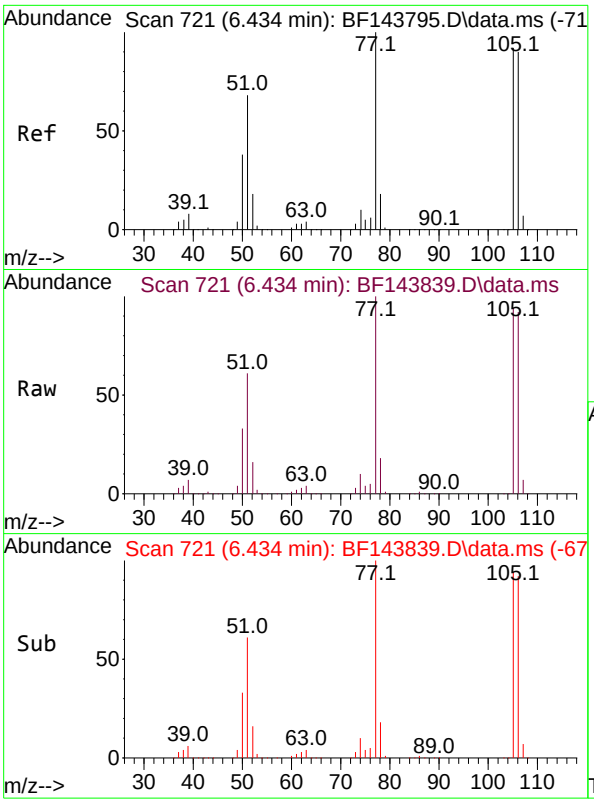


#8
2-Chlorophenol
Concen: 38.364 ng
RT: 6.669 min Scan# 761
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:128 Resp: 363871

Ion	Ratio	Lower	Upper
128	100		
130	32.0	12.2	52.2
64	64.7	46.5	86.5



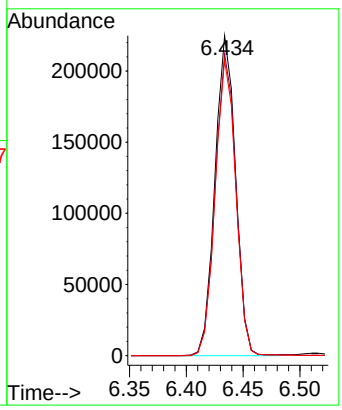


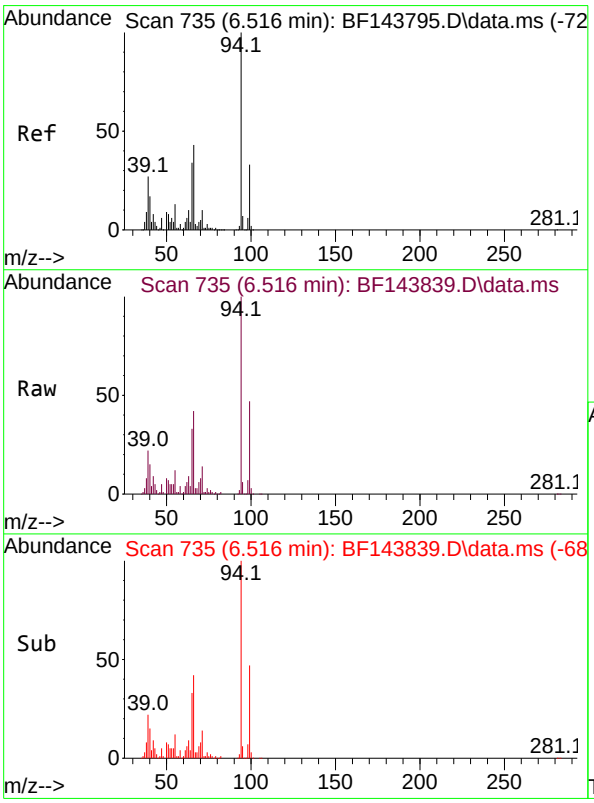
#9
Benzaldehyde
Concen: 30.150 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion: 77 Resp: 282636

Ion	Ratio	Lower	Upper
77	100		
105	94.2	71.8	111.8
106	92.3	69.8	109.8

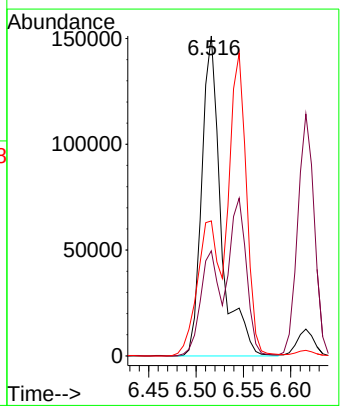


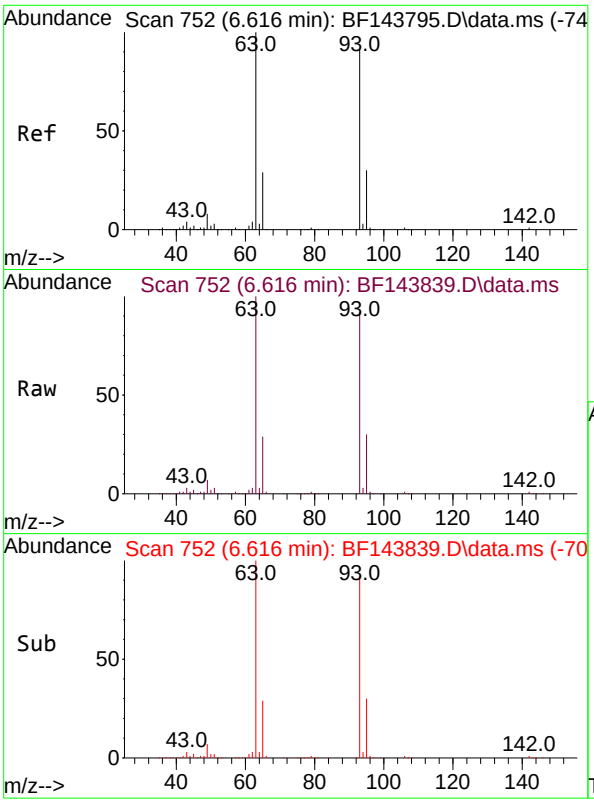


#10
Phenol
Concen: 17.216 ng
RT: 6.516 min Scan# 735
Delta R.T. -0.012 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion: 94 Resp: 214211

Ion	Ratio	Lower	Upper
94	100		
65	32.8	14.2	54.2
66	42.2	24.1	64.1



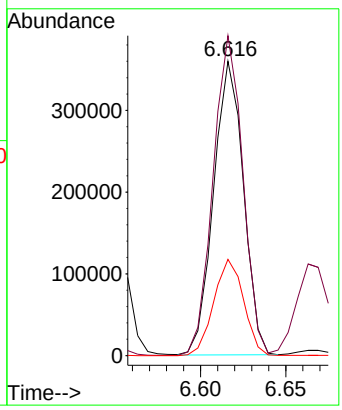


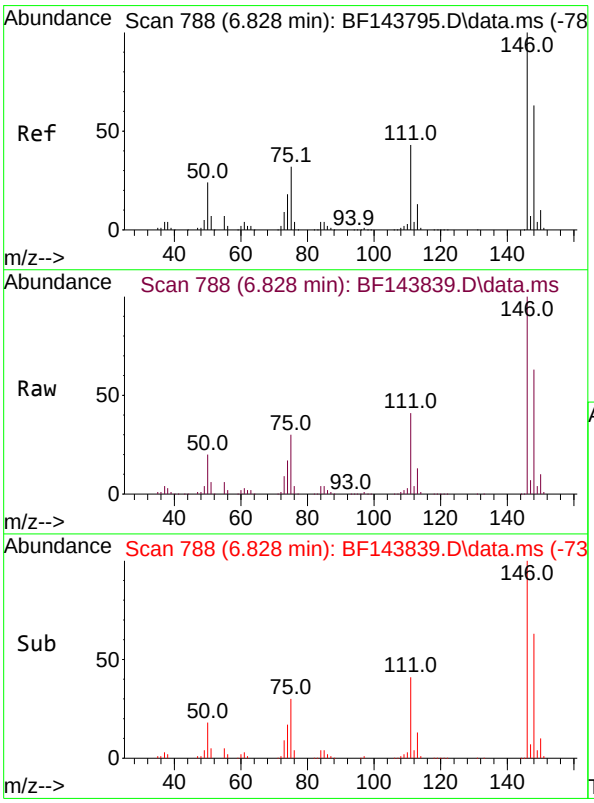
#11
bis(2-Chloroethyl)ether
Concen: 44.922 ng
RT: 6.616 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion: 93 Resp: 438144

Ion	Ratio	Lower	Upper
93	100		
63	108.7	89.2	129.2
95	32.7	12.9	52.9

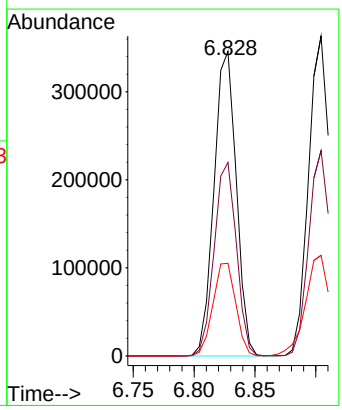


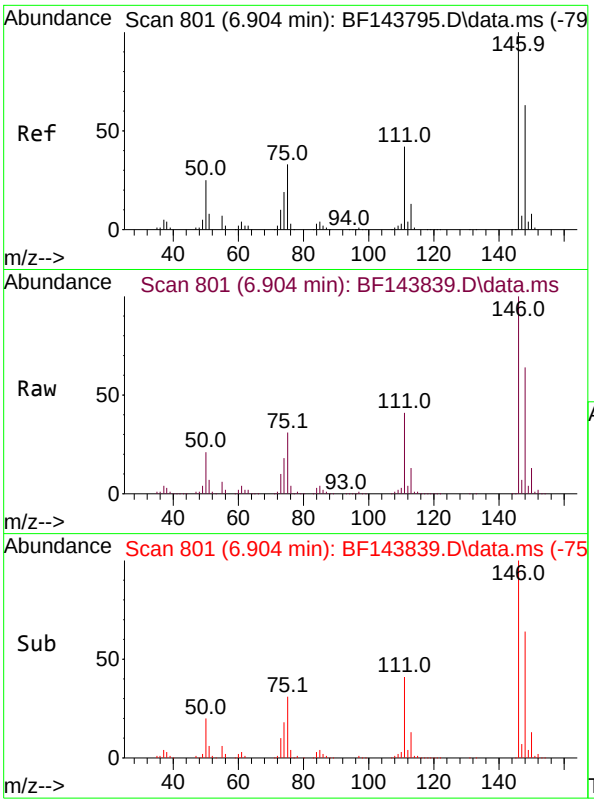


#12
1,3-Dichlorobenzene
Concen: 40.083 ng
RT: 6.828 min Scan# 788
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:146 Resp: 441405

Ion	Ratio	Lower	Upper
146	100		
148	63.5	50.4	75.6
75	30.4	25.6	38.4



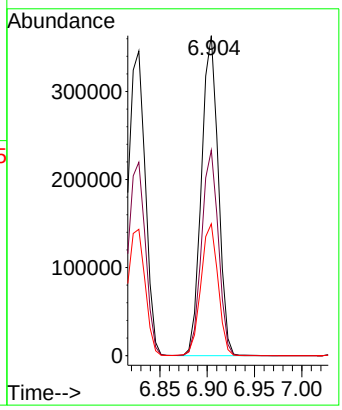


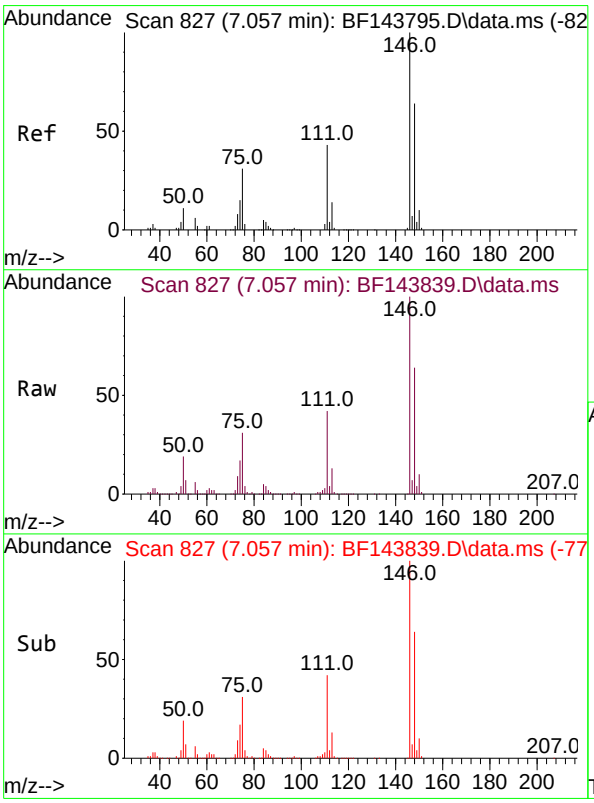
#13
1,4-Dichlorobenzene
Concen: 40.905 ng
RT: 6.904 min Scan# 80
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:146 Resp: 449539

Ion	Ratio	Lower	Upper
146	100		
148	64.2	50.7	76.1
111	41.2	33.4	50.2

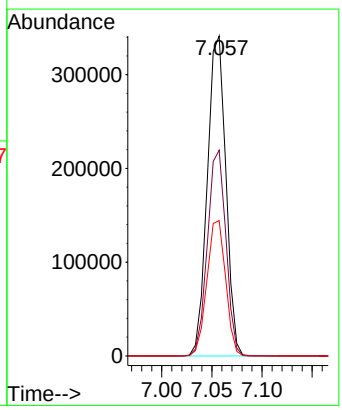


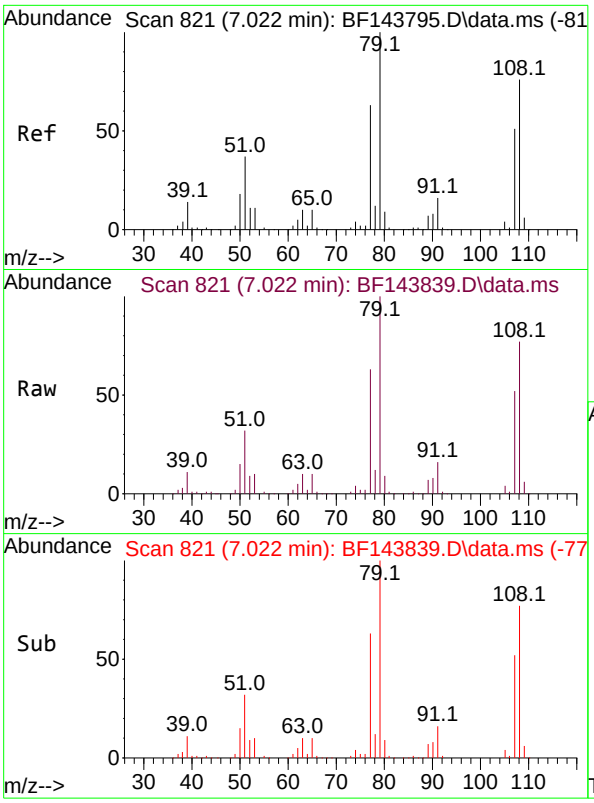


#14
1,2-Dichlorobenzene
Concen: 42.033 ng
RT: 7.057 min Scan# 827
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:146 Resp: 437501

Ion	Ratio	Lower	Upper
146	100		
148	64.3	51.1	76.7
111	42.3	34.3	51.5



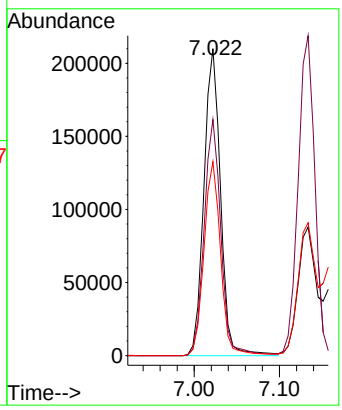


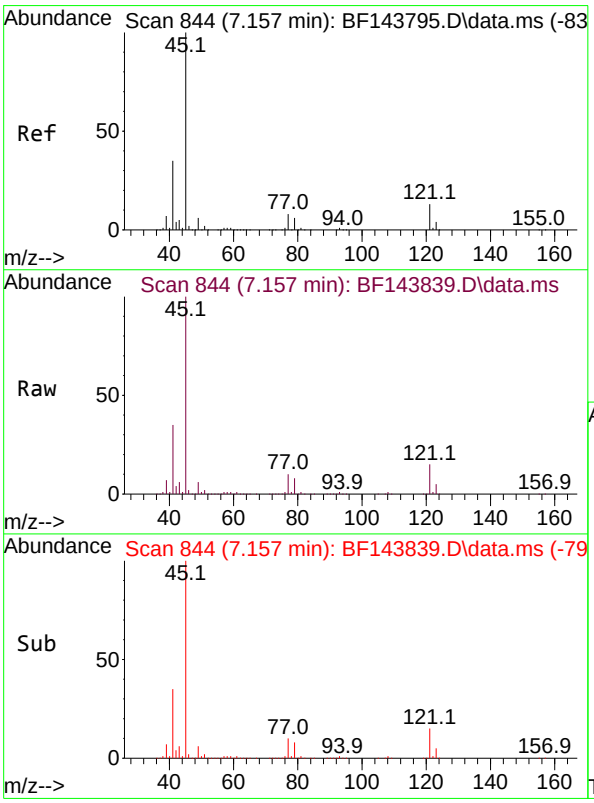
#15
Benzyl Alcohol
Concen: 36.772 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion: 79 Resp: 284429

Ion	Ratio	Lower	Upper
79	100		
108	76.9	60.5	90.7
77	63.2	50.3	75.5

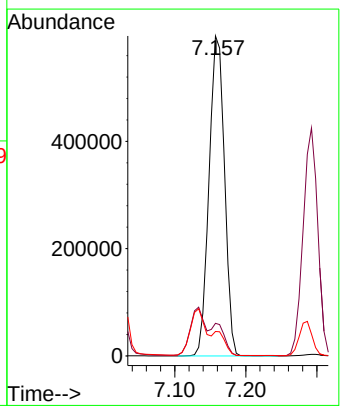


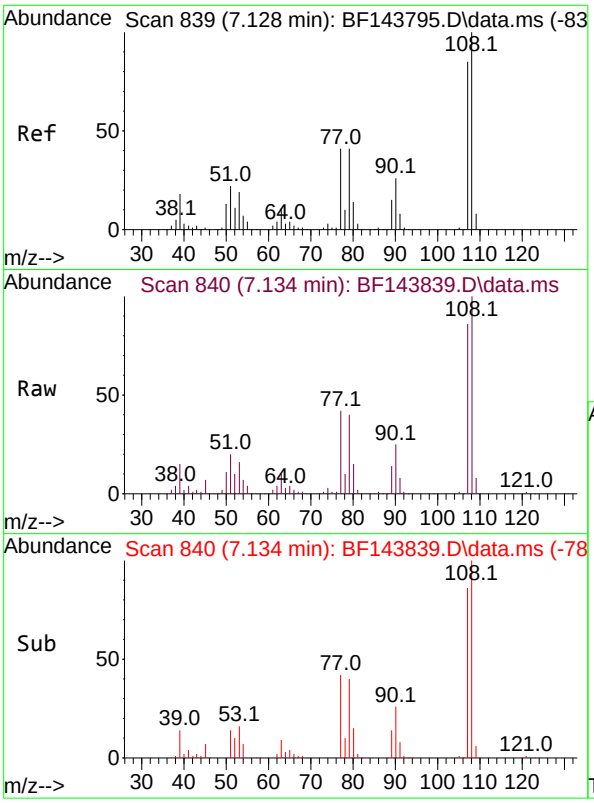


#16
2,2'-oxybis(1-Chloropropane)
Concen: 38.967 ng
RT: 7.157 min Scan# 844
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion: 45 Resp: 901229

Ion	Ratio	Lower	Upper
45	100		
77	10.2	0.0	28.5
79	7.6	0.0	26.3



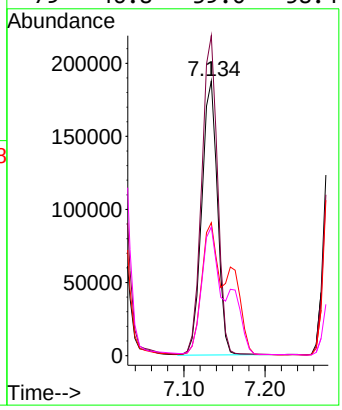


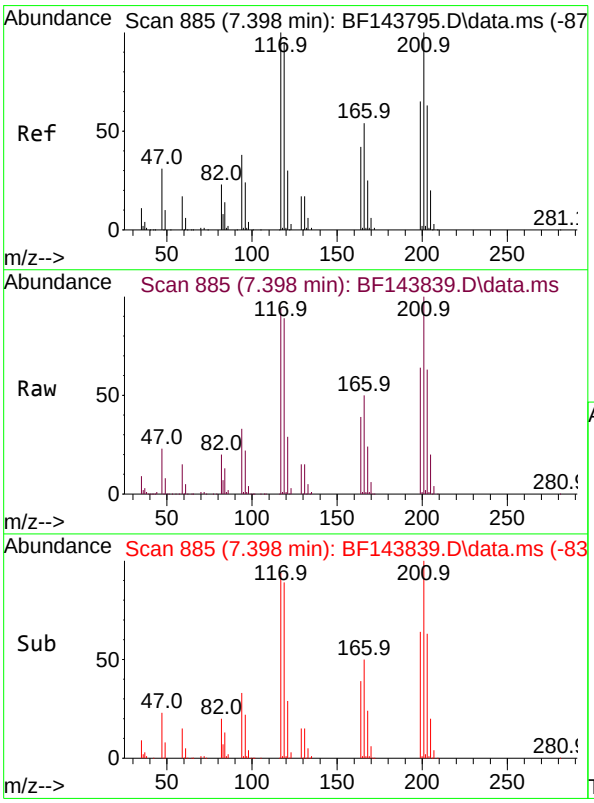
#17
2-Methylphenol
Concen: 34.443 ng
RT: 7.134 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:107 Resp: 252915

Ion	Ratio	Lower	Upper
107	100		
108	116.5	94.2	141.4
77	48.4	38.6	58.0
79	46.8	39.0	58.4

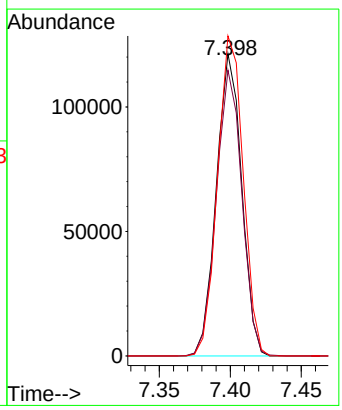


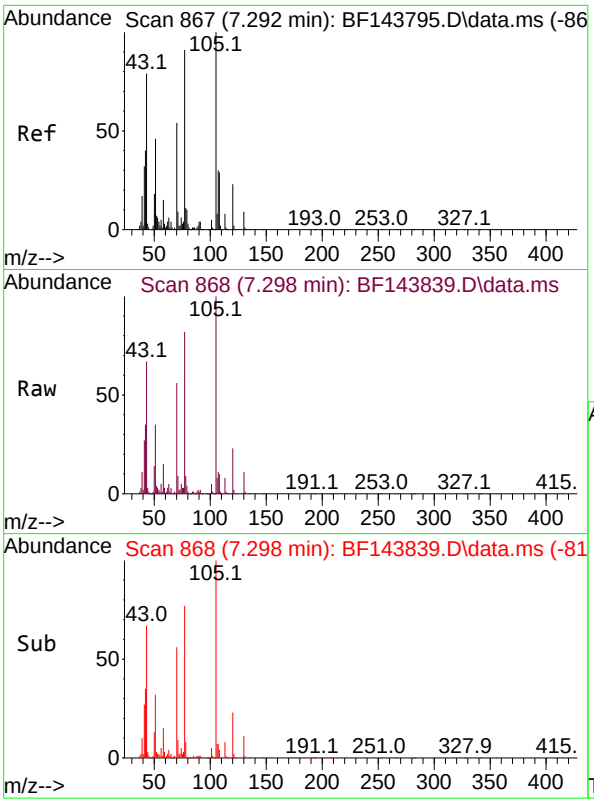


#18
Hexachloroethane
Concen: 39.040 ng
RT: 7.398 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:117 Resp: 150885

Ion	Ratio	Lower	Upper
117	100		
119	94.5	76.2	114.2
201	105.9	79.7	119.5



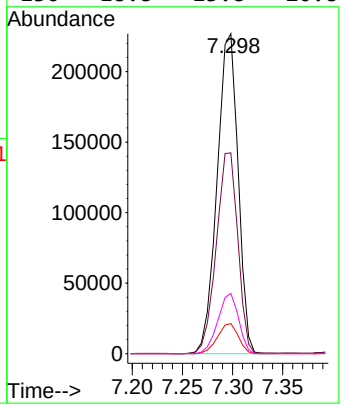


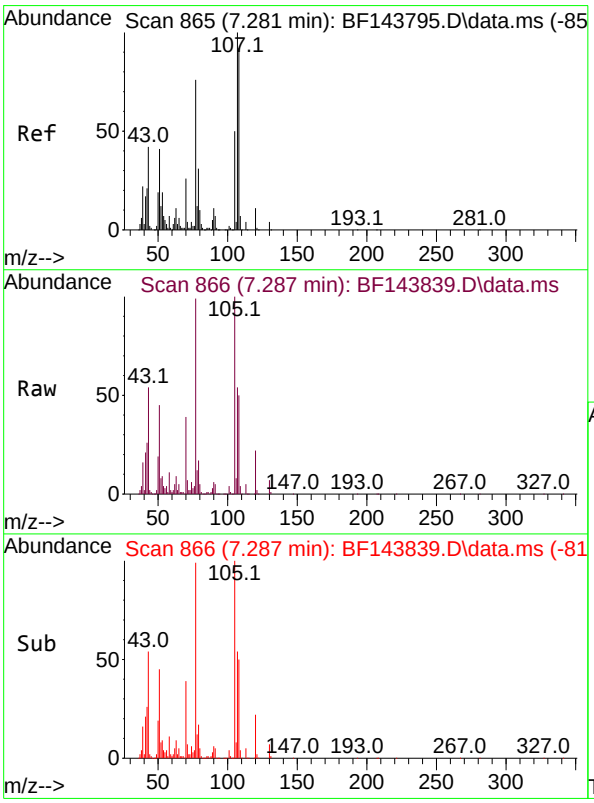
#19
n-Nitroso-di-n-propylamine
Concen: 48.176 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion: 70 Resp: 331627

Ion	Ratio	Lower	Upper
70	100		
42	62.7	59.4	89.0
101	9.4	7.1	10.7
130	18.8	13.8	20.8

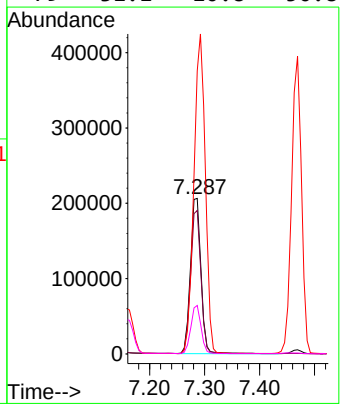


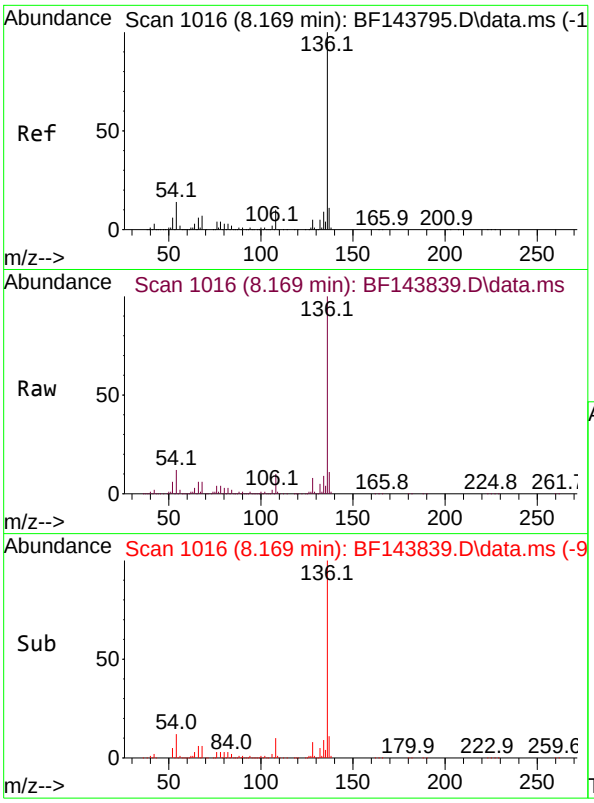


#20
3+4-Methylphenols
Concen: 30.770 ng
RT: 7.287 min Scan# 866
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:107 Resp: 275152

Ion	Ratio	Lower	Upper
107	100		
108	92.3	72.5	112.5
77	182.1	56.2	96.2#
79	31.1	10.8	50.8



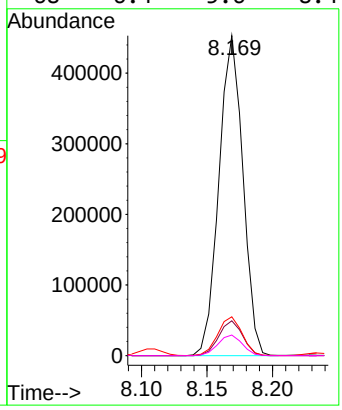


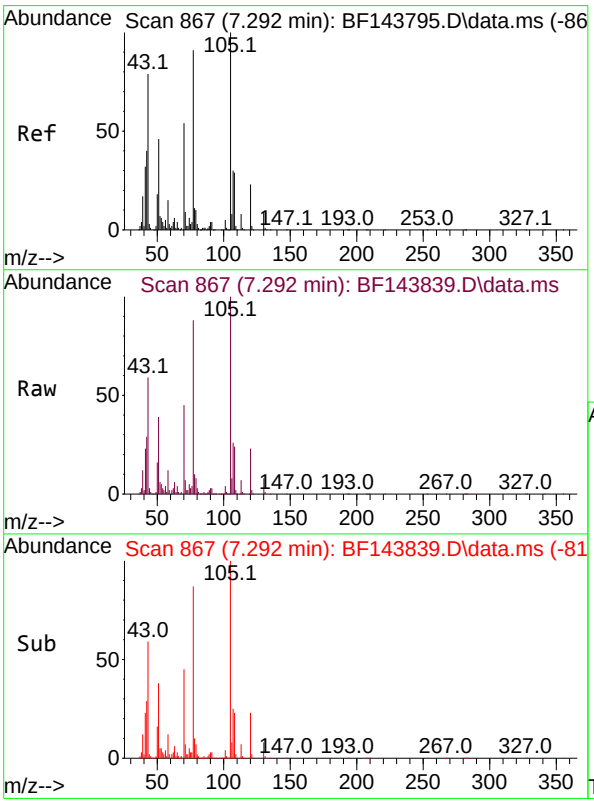
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:136 Resp: 576047

Ion	Ratio	Lower	Upper
136	100		
137	10.9	9.0	13.4
54	12.1	11.2	16.8
68	6.4	5.6	8.4

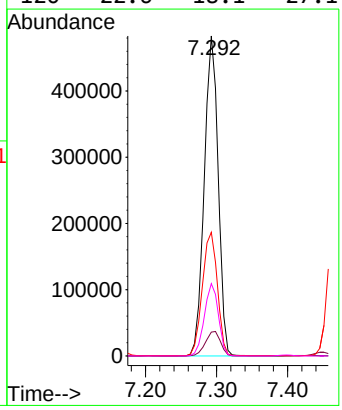


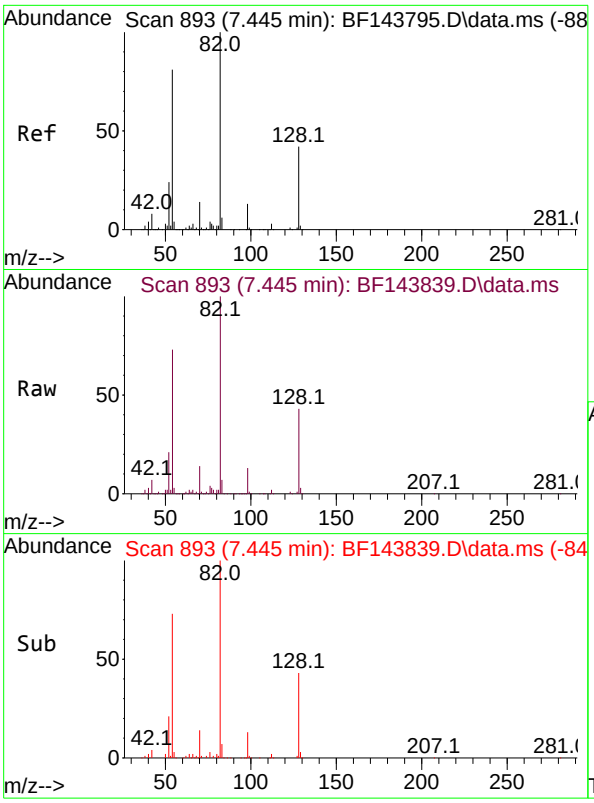


#22
Acetophenone
Concen: 51.769 ng
RT: 7.292 min Scan# 867
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:105 Resp: 654994

Ion	Ratio	Lower	Upper
105	100		
71	7.4	7.0	10.4
51	38.6	36.6	55.0
120	22.6	18.1	27.1



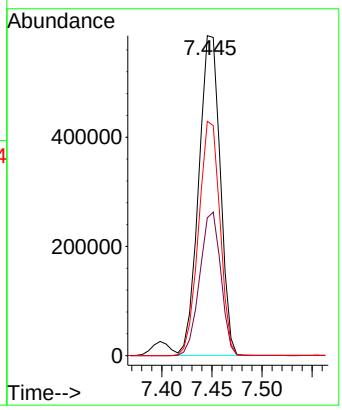


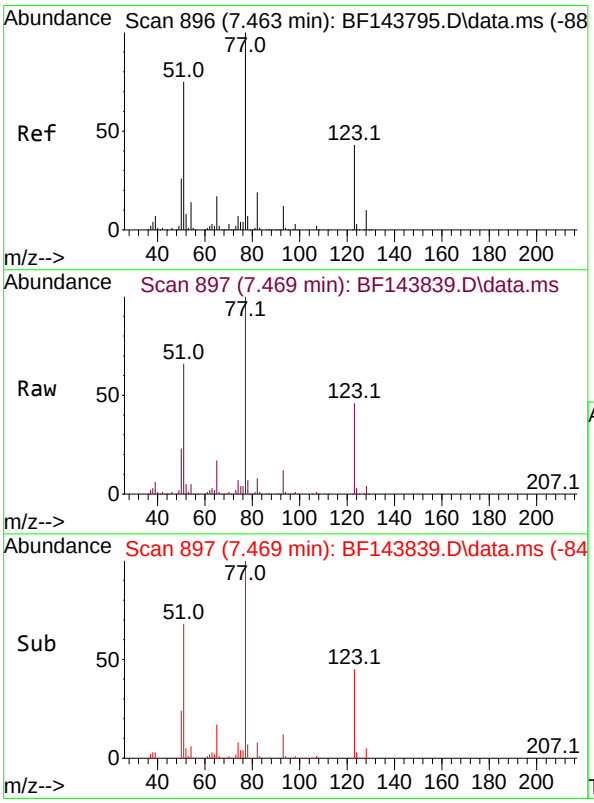
#23
Nitrobenzene-d5
Concen: 92.406 ng
RT: 7.445 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion: 82 Resp: 869610

Ion	Ratio	Lower	Upper
82	100		
128	43.1	33.3	49.9
54	73.3	64.2	96.4

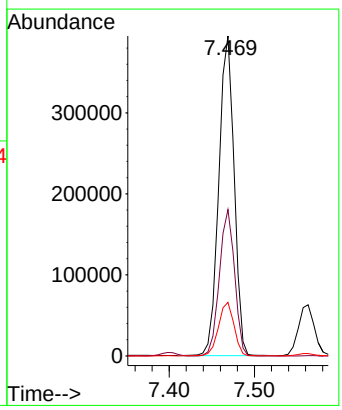


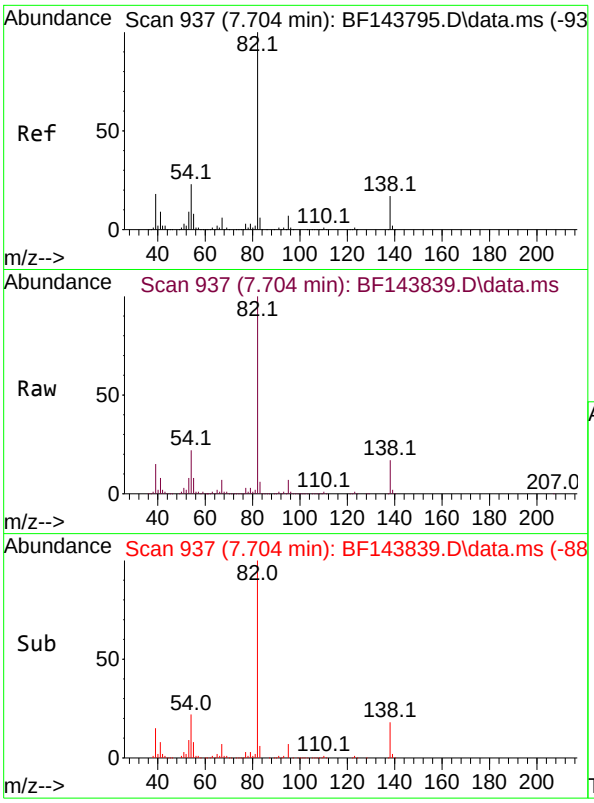


#24
Nitrobenzene
Concen: 47.307 ng
RT: 7.469 min Scan# 897
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion: 77 Resp: 493463

Ion	Ratio	Lower	Upper
77	100		
123	45.7	34.0	51.0
65	16.7	13.5	20.3



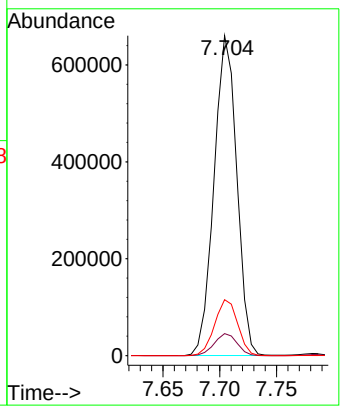


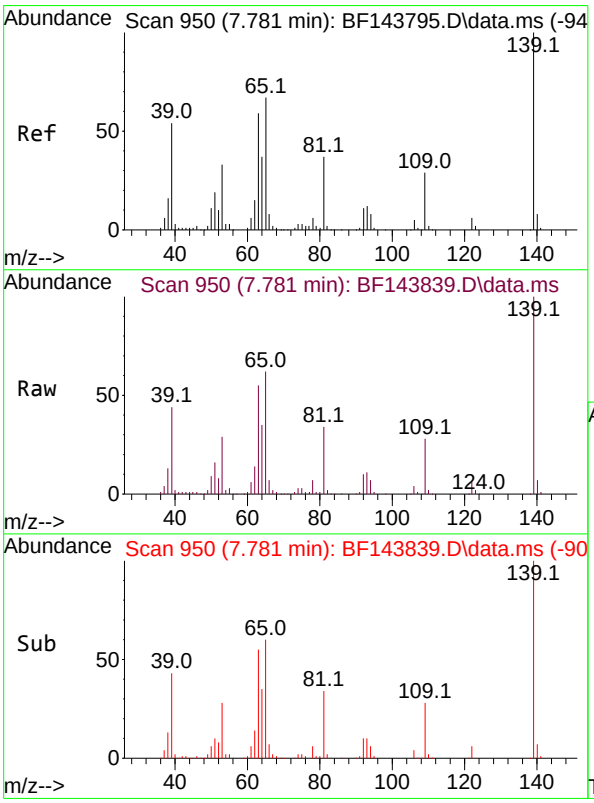
#25
Isophorone
Concen: 50.223 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion: 82 Resp: 921018

Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.4	8.2
138	17.5	13.7	20.5

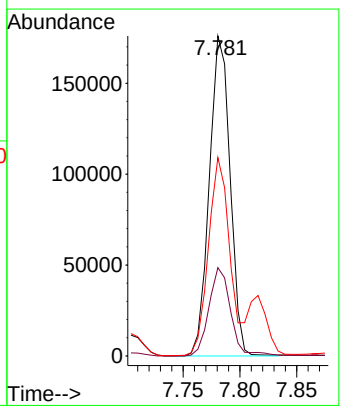


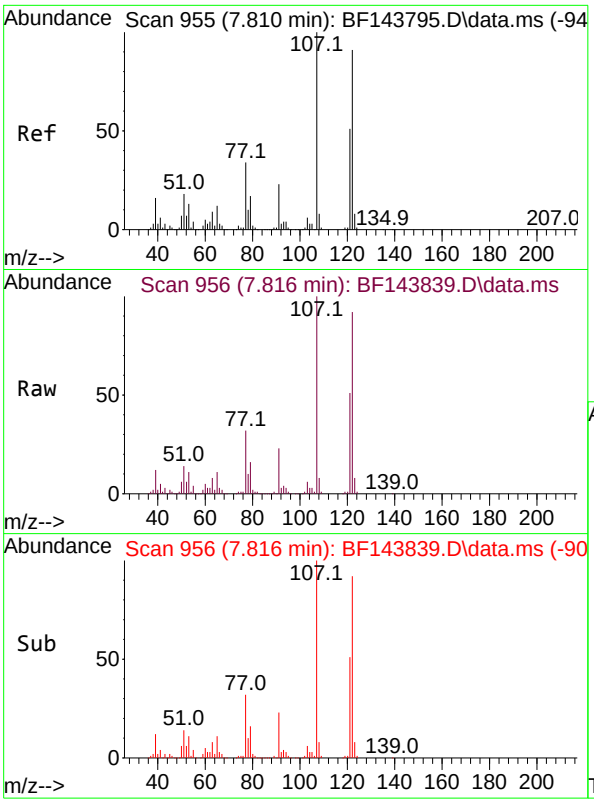


#26
2-Nitrophenol
Concen: 51.999 ng
RT: 7.781 min Scan# 950
Delta R.T. -0.005 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:139 Resp: 223709

Ion	Ratio	Lower	Upper
139	100		
109	27.6	23.3	34.9
65	62.0	53.8	80.6



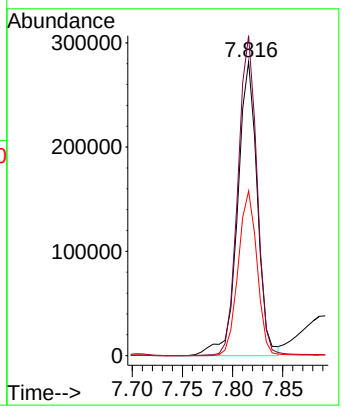


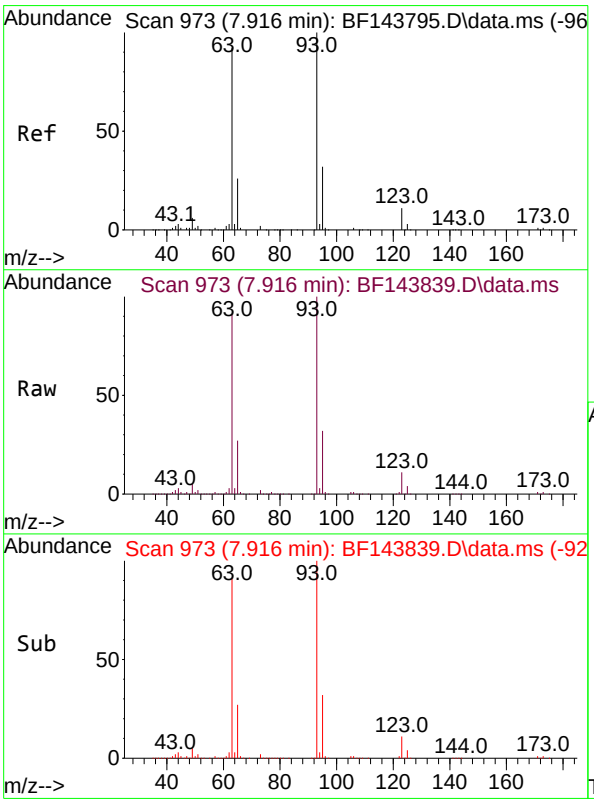
#27
2,4-Dimethylphenol
Concen: 46.895 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:122 Resp: 384384

Ion	Ratio	Lower	Upper
122	100		
107	108.9	87.5	131.3
121	56.0	44.2	66.4

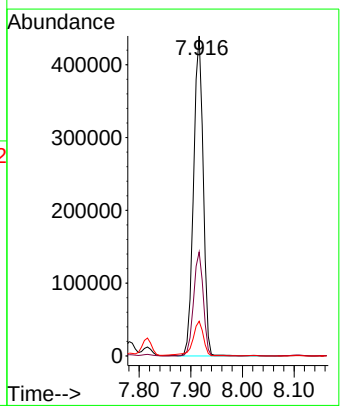


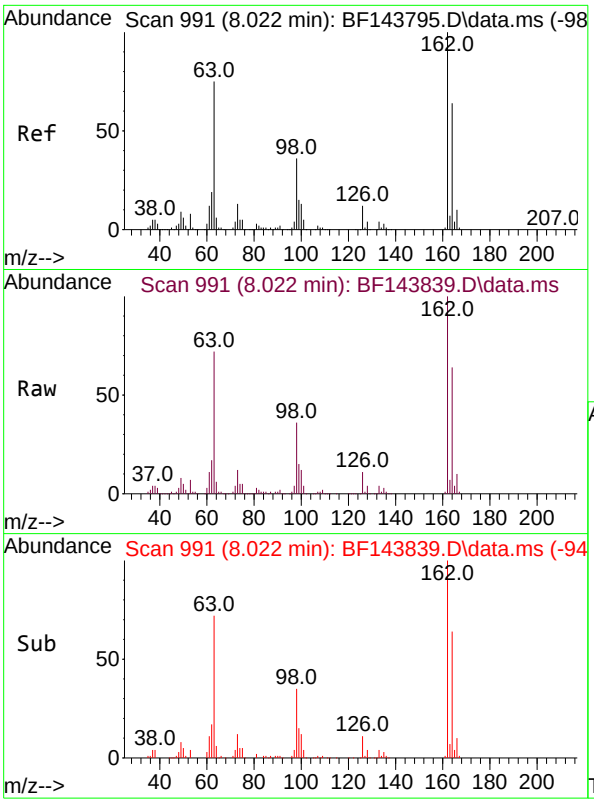


#28
bis(2-Chloroethoxy)methane
Concen: 47.971 ng
RT: 7.916 min Scan# 973
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion: 93 Resp: 571543

Ion	Ratio	Lower	Upper
93	100		
95	32.5	25.8	38.8
123	10.8	8.8	13.2



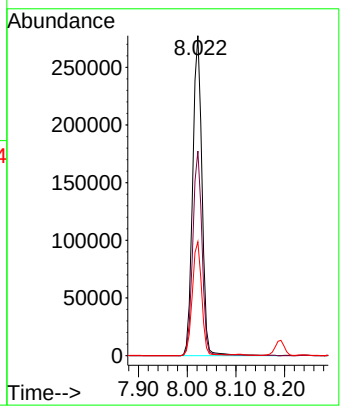


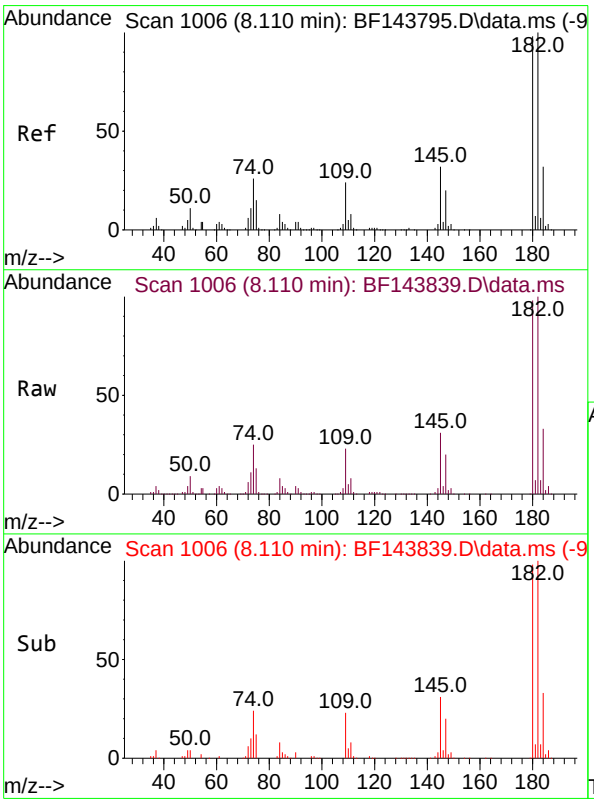
#29
2,4-Dichlorophenol
Concen: 45.467 ng
RT: 8.022 min Scan# 99
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:162 Resp: 366701

Ion	Ratio	Lower	Upper
162	100		
164	63.9	44.1	84.1
98	35.6	15.8	55.8

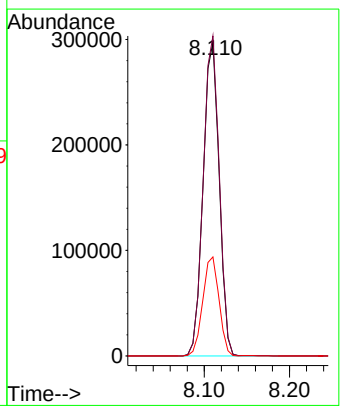


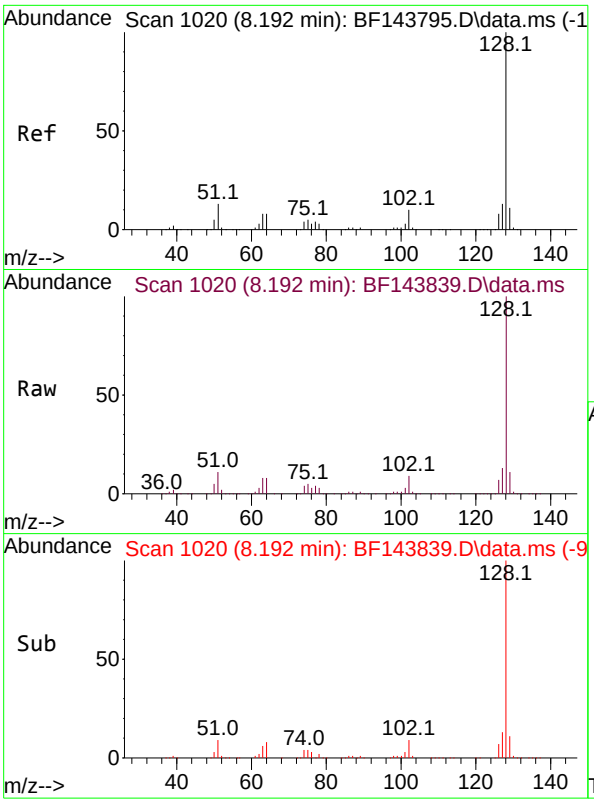


#30
1,2,4-Trichlorobenzene
Concen: 46.495 ng
RT: 8.110 min Scan# 1006
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:180 Resp: 389162

Ion	Ratio	Lower	Upper
180	100		
182	102.0	82.0	123.0
145	31.5	25.9	38.9



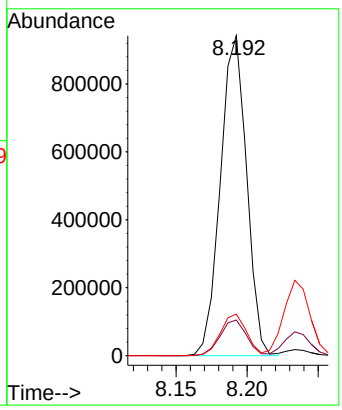


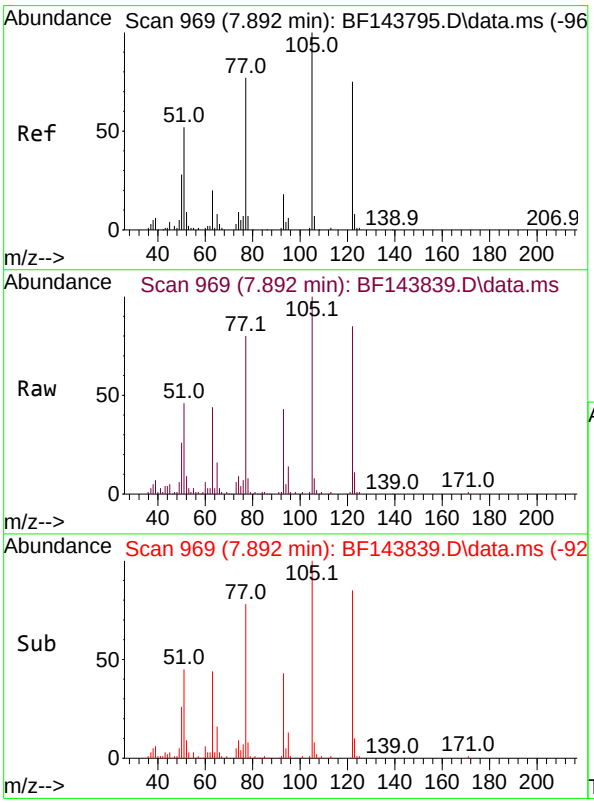
#31
Naphthalene
Concen: 43.924 ng
RT: 8.192 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:128 Resp: 1211262

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	13.0	10.2	15.4

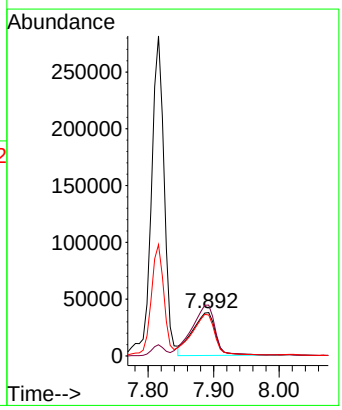


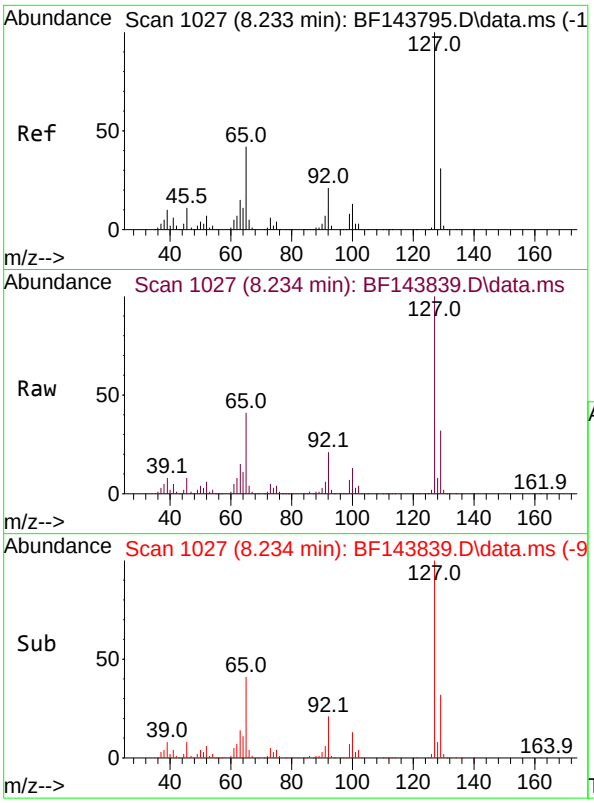


#32
Benzoic acid
Concen: 23.723 ng
RT: 7.892 min Scan# 969
Delta R.T. -0.029 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:122 Resp: 93818

Ion	Ratio	Lower	Upper
122	100		
105	117.6	103.7	143.7
77	94.5	78.8	118.8



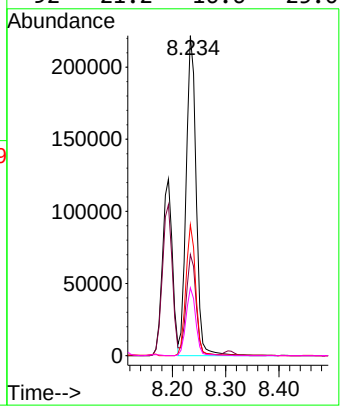


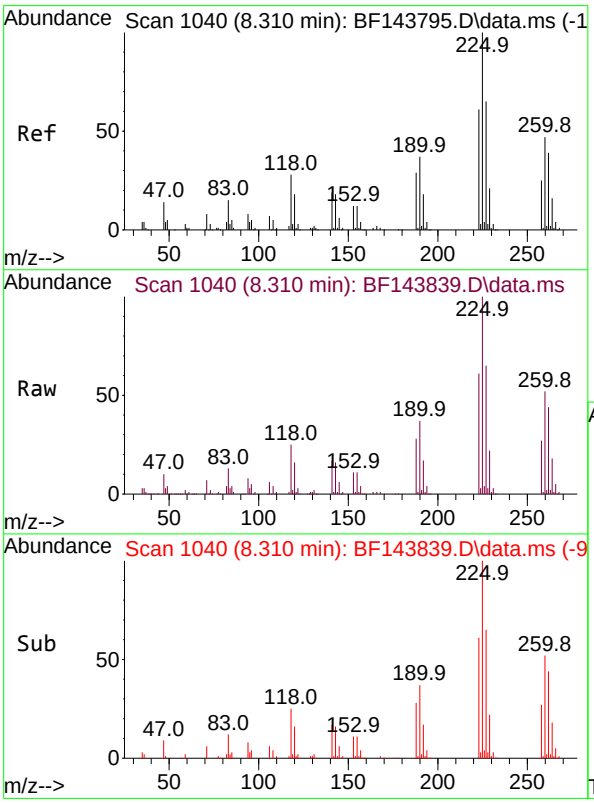
#33
4-Chloroaniline
Concen: 29.945 ng
RT: 8.234 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:127 Resp: 290186

Ion	Ratio	Lower	Upper
127	100		
129	31.6	25.4	38.2
65	40.9	33.4	50.2
92	21.2	16.6	25.0

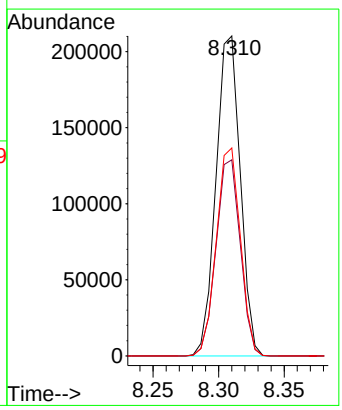


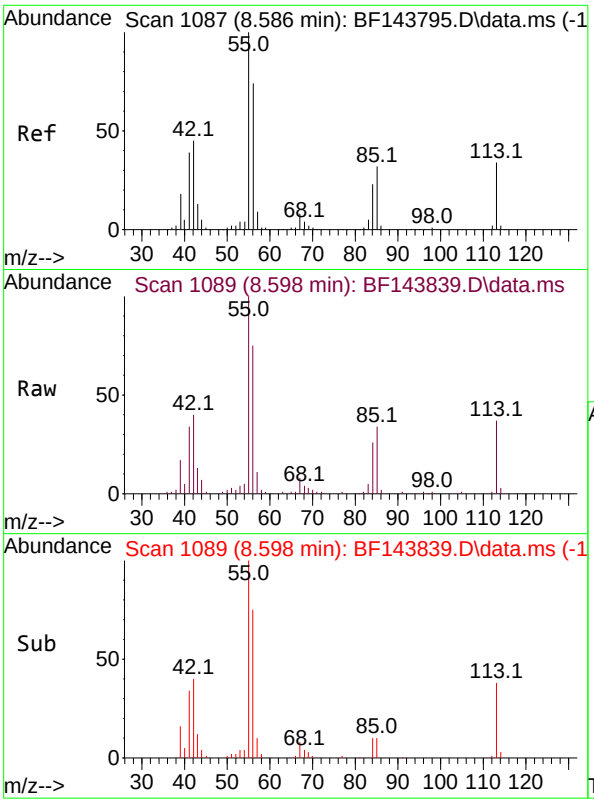


#34
Hexachlorobutadiene
Concen: 43.458 ng
RT: 8.310 min Scan# 1040
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:225 Resp: 271159

Ion	Ratio	Lower	Upper
225	100		
223	61.3	48.6	72.8
227	65.0	51.9	77.9



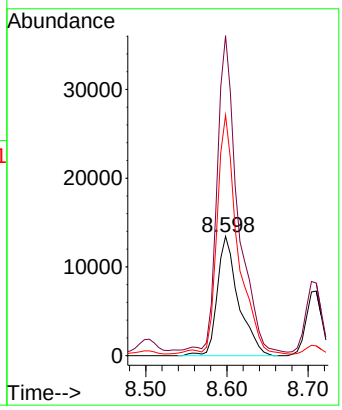


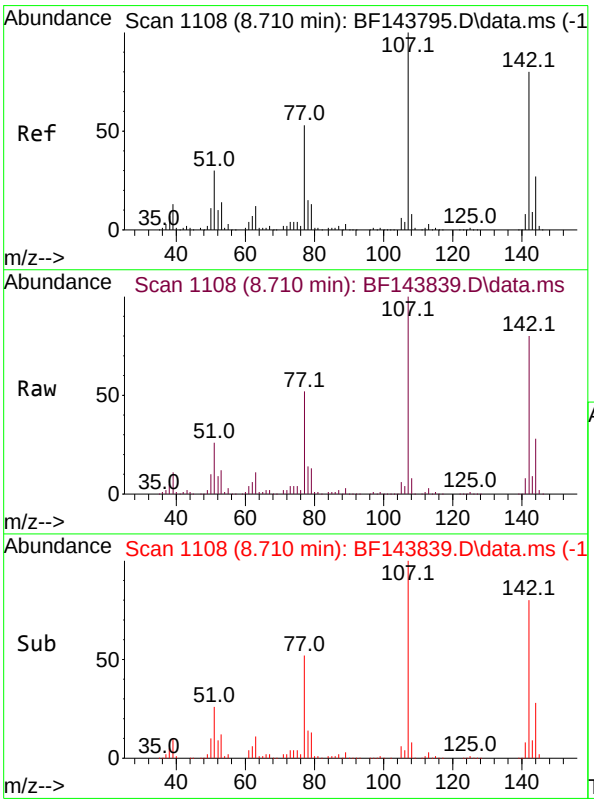
#35
Caprolactam
Concen: 11.760 ng
RT: 8.598 min Scan# 10
Delta R.T. -0.012 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:113 Resp: 24243

Ion	Ratio	Lower	Upper
113	100		
55	268.4	271.7	311.7#
56	201.8	194.5	234.5

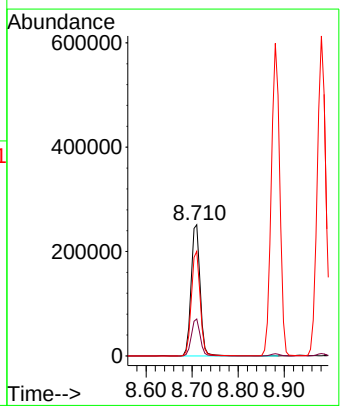


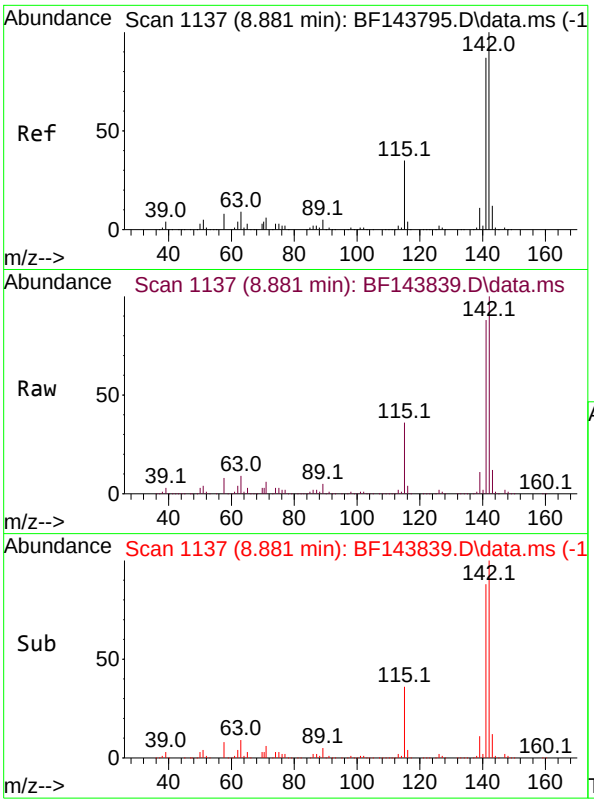


#36
4-Chloro-3-methylphenol
Concen: 45.138 ng
RT: 8.710 min Scan# 1108
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:107 Resp: 341433

Ion	Ratio	Lower	Upper
107	100		
144	28.1	21.8	32.8
142	79.7	63.6	95.4



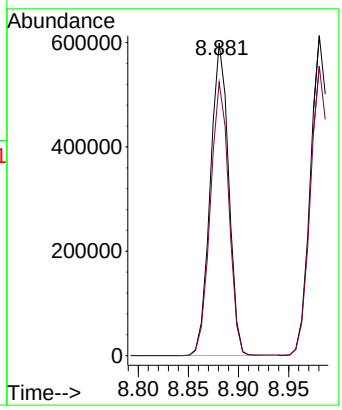


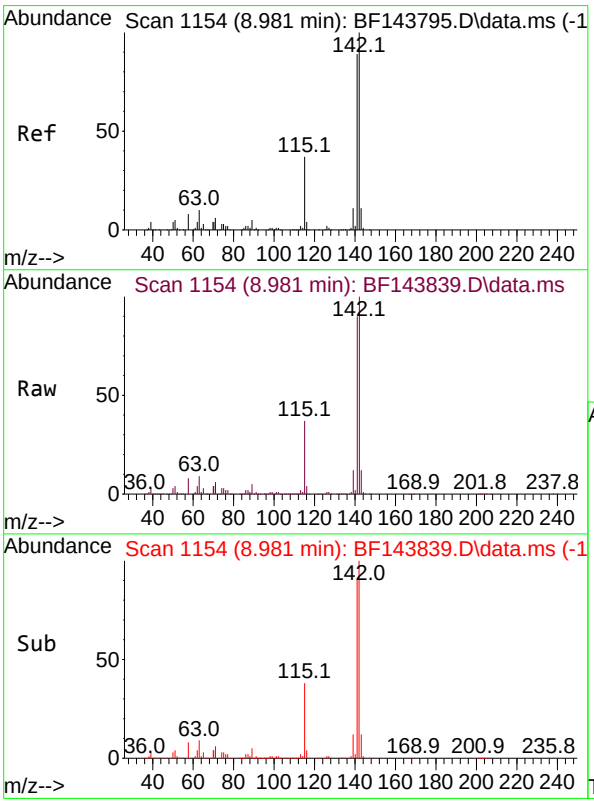
#37
2-Methylnaphthalene
Concen: 43.383 ng
RT: 8.881 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:142 Resp: 762835

Ion	Ratio	Lower	Upper
142	100		
141	87.5	69.4	104.0

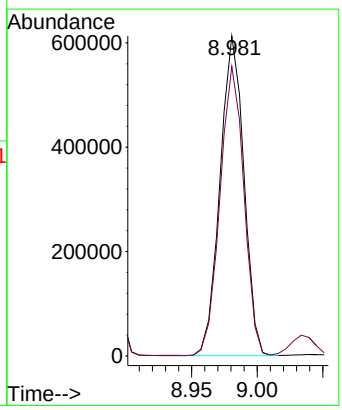


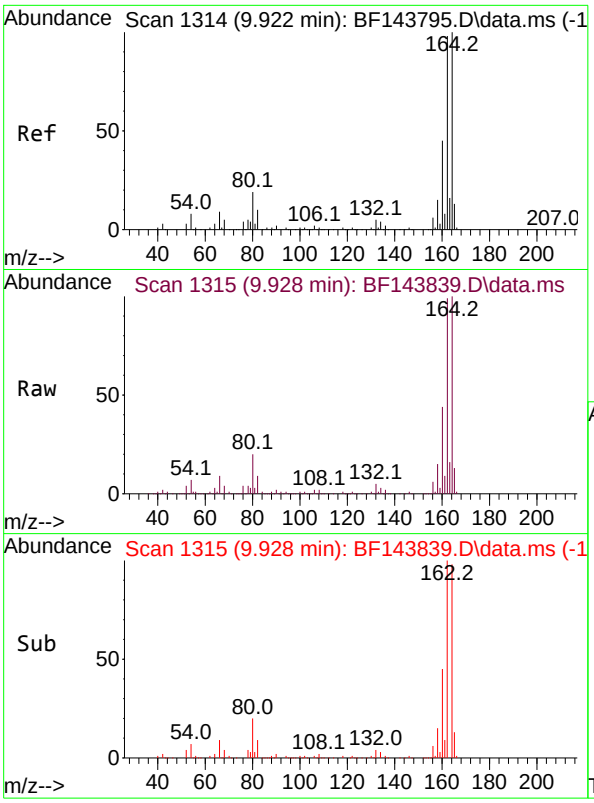


#38
1-Methylnaphthalene
Concen: 46.185 ng
RT: 8.981 min Scan# 1154
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:142 Resp: 777318

Ion	Ratio	Lower	Upper
142	100		
141	90.5	71.1	106.7



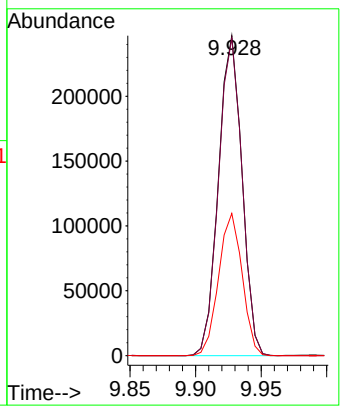


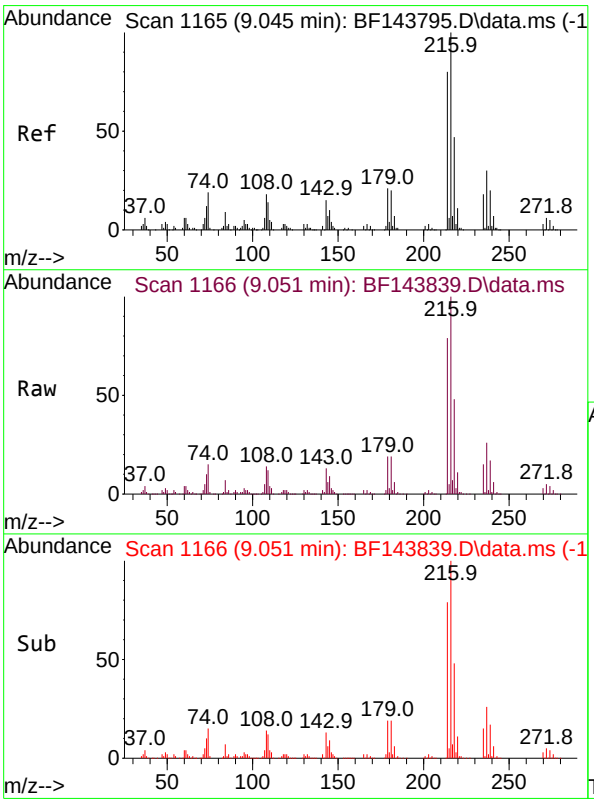
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.928 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:164 Resp: 308449

Ion	Ratio	Lower	Upper
164	100		
162	99.2	78.8	118.2
160	44.4	35.8	53.6

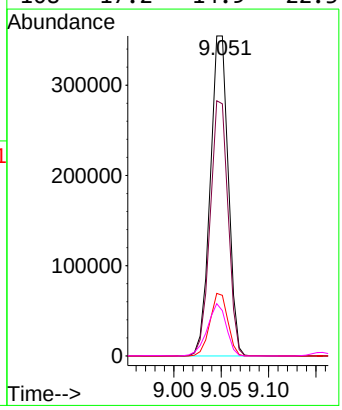


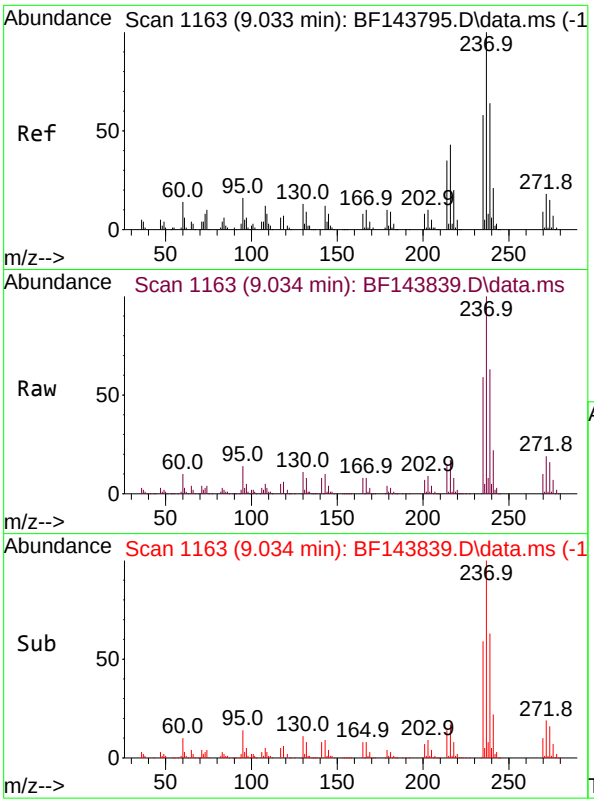


#40
1,2,4,5-Tetrachlorobenzene
Concen: 50.382 ng
RT: 9.051 min Scan# 1166
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:216 Resp: 468983

Ion	Ratio	Lower	Upper
216	100		
214	79.2	63.7	95.5
179	19.2	16.5	24.7
108	17.2	14.9	22.3



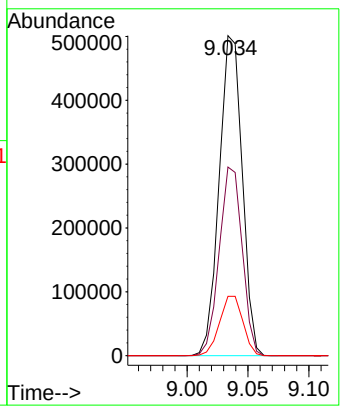


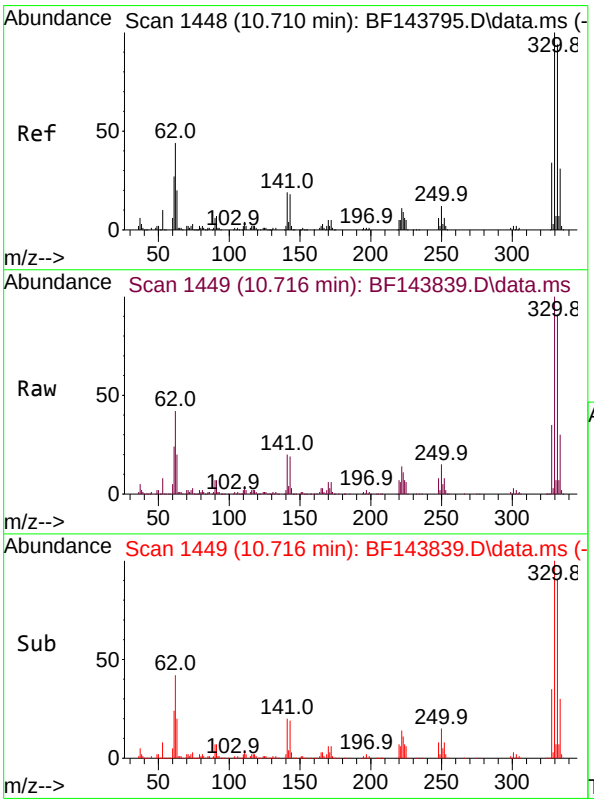
#41
Hexachlorocyclopentadiene
Concen: 111.741 ng
RT: 9.034 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:237 Resp: 659206

Ion	Ratio	Lower	Upper
237	100		
235	58.9	38.1	78.1
272	18.5	0.0	37.9

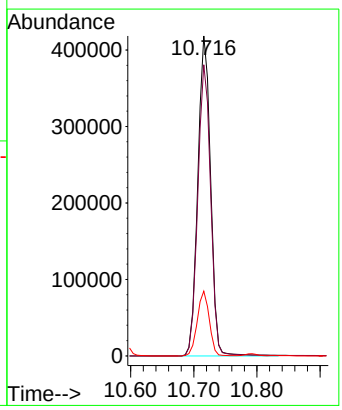


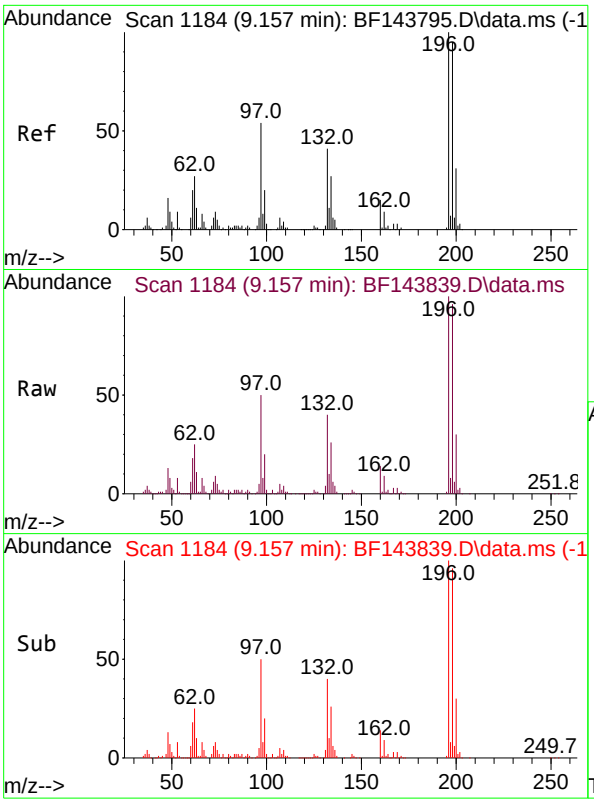


#42
2,4,6-Tribromophenol
Concen: 128.838 ng
RT: 10.716 min Scan# 1449
Delta R.T. -0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:330 Resp: 588412

Ion	Ratio	Lower	Upper
330	100		
332	92.1	74.7	112.1
141	19.0	14.3	21.5



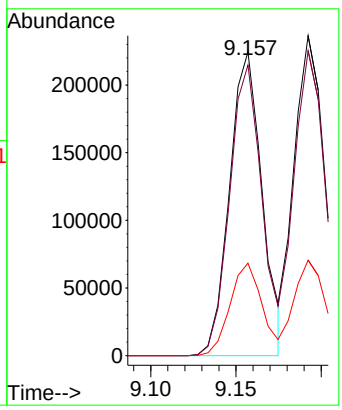


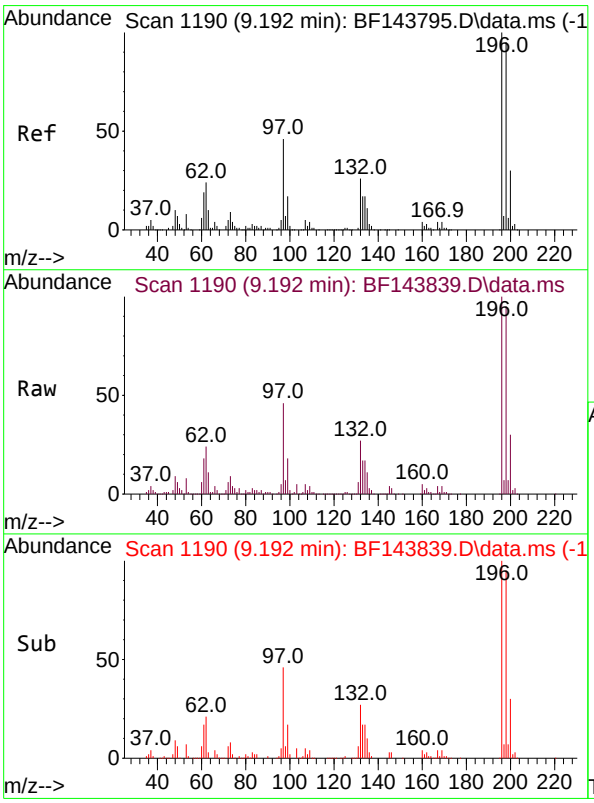
#43
2,4,6-Trichlorophenol
Concen: 51.108 ng
RT: 9.157 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:196 Resp: 297887

Ion	Ratio	Lower	Upper
196	100		
198	95.7	76.2	114.2
200	30.4	24.7	37.1

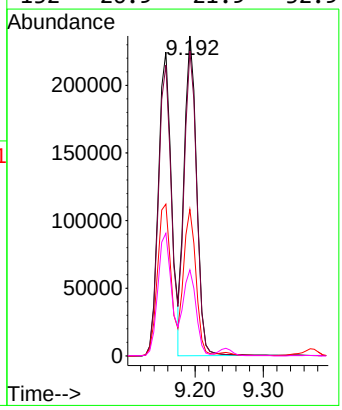


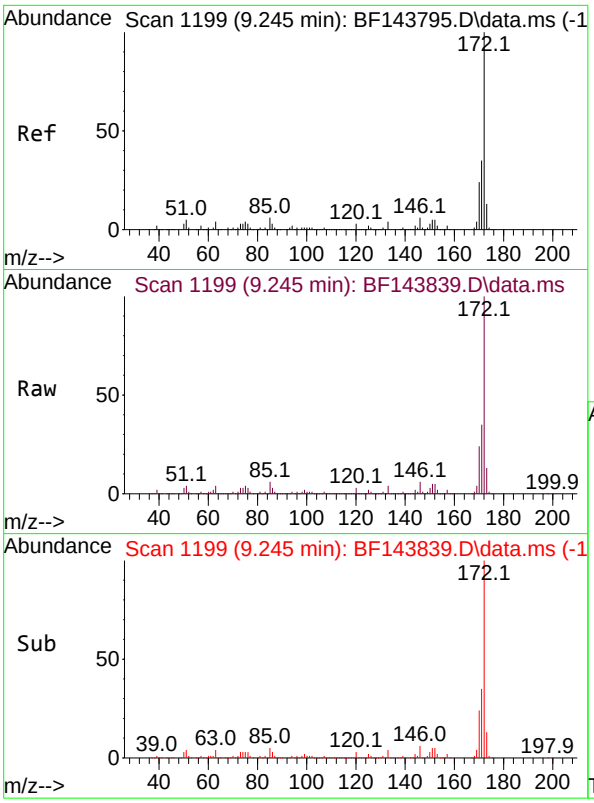


#44
2,4,5-Trichlorophenol
Concen: 49.387 ng
RT: 9.192 min Scan# 1190
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:196 Resp: 301093

Ion	Ratio	Lower	Upper
196	100		
198	95.3	75.9	113.9
97	45.8	38.3	57.5
132	26.9	21.9	32.9



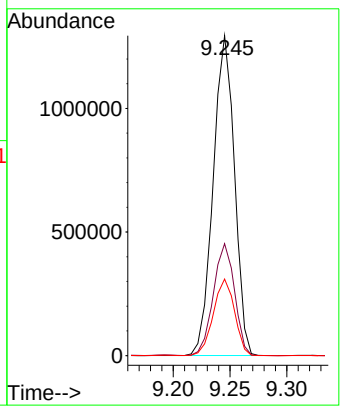


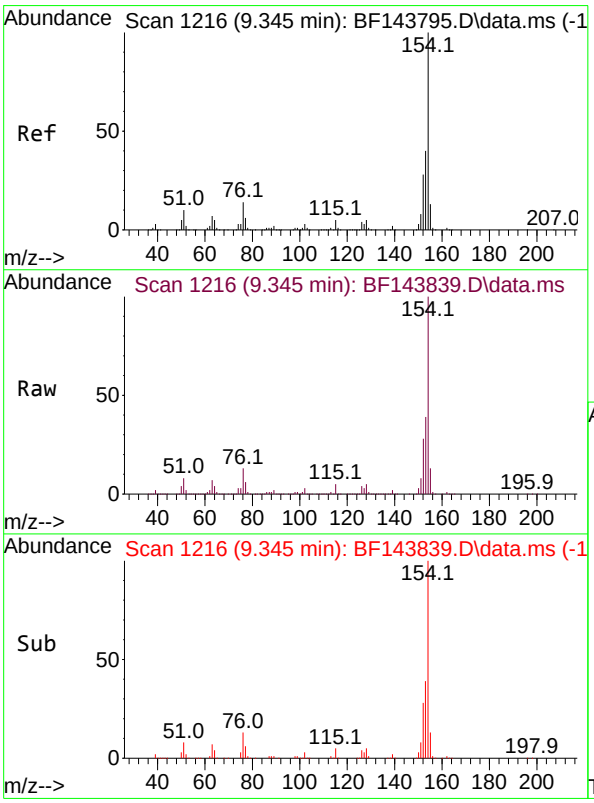
#45
2-Fluorobiphenyl
Concen: 85.415 ng
RT: 9.245 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:172 Resp: 1688317

Ion	Ratio	Lower	Upper
172	100		
171	35.0	27.9	41.9
170	23.9	19.1	28.7

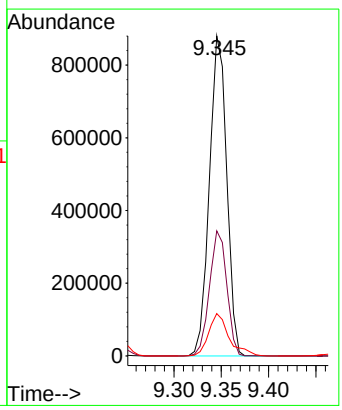


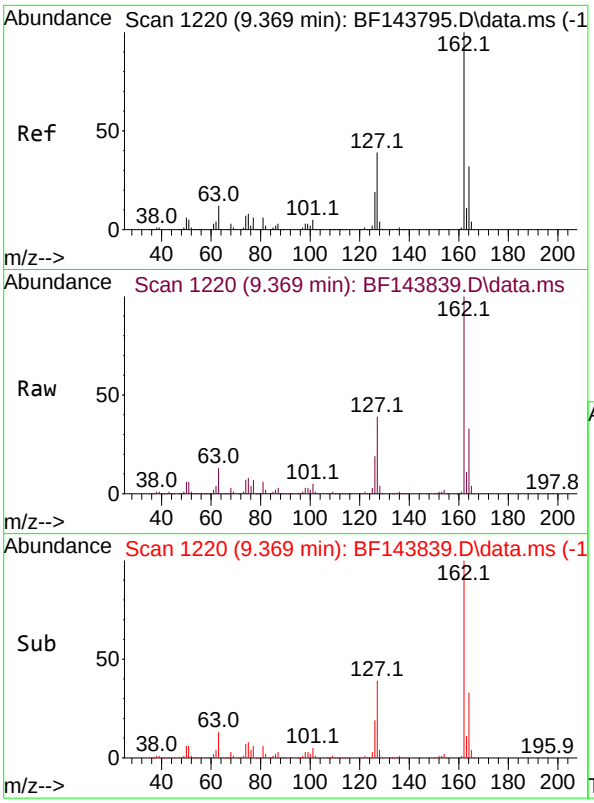


#46
1,1'-Biphenyl
Concen: 50.185 ng
RT: 9.345 min Scan# 1216
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:154 Resp: 1120524

Ion	Ratio	Lower	Upper
154	100		
153	39.1	19.7	59.7
76	13.2	0.0	33.8



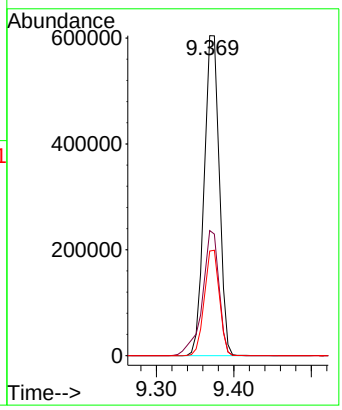


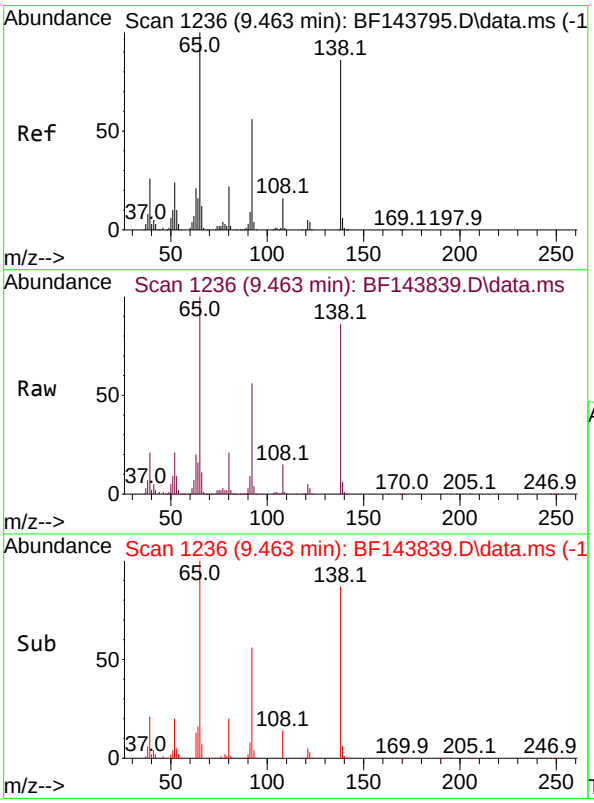
#47
2-Chloronaphthalene
Concen: 45.524 ng
RT: 9.369 min Scan# 1
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:162 Resp: 818200

Ion	Ratio	Lower	Upper
162	100		
127	39.1	31.5	47.3
164	32.7	25.9	38.9

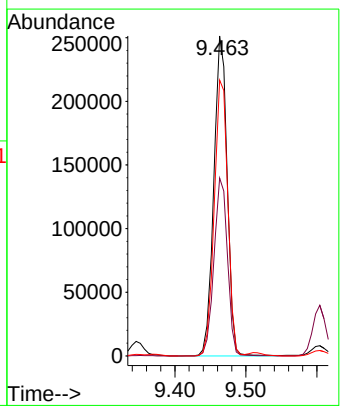


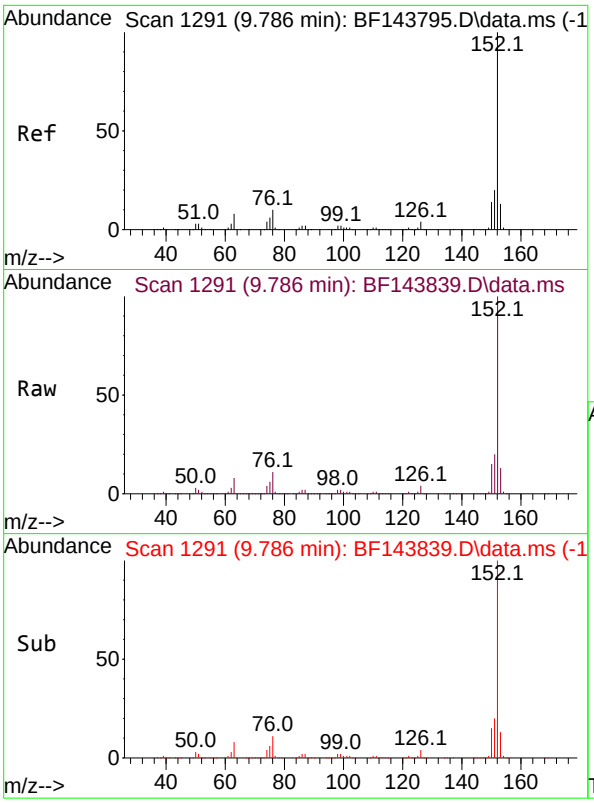


#48
2-Nitroaniline
Concen: 60.584 ng
RT: 9.463 min Scan# 1236
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion: 65 Resp: 329095

Ion	Ratio	Lower	Upper
65	100		
92	55.6	44.9	67.3
138	86.2	69.0	103.4



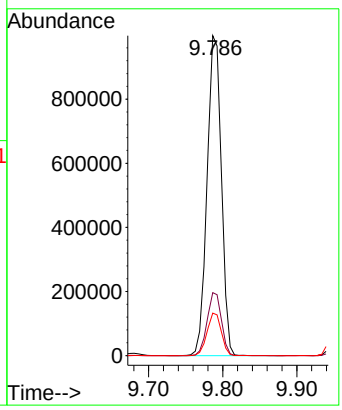


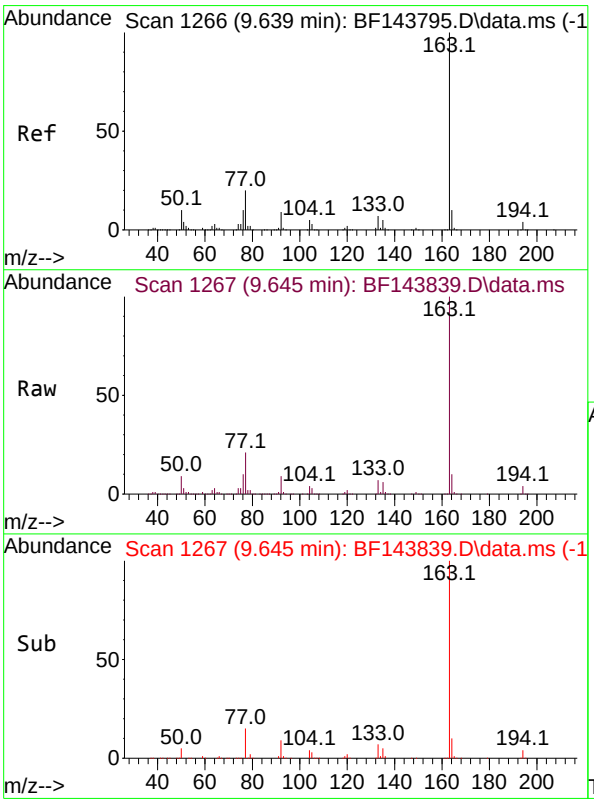
#49
Acenaphthylene
Concen: 53.971 ng
RT: 9.786 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:152 Resp: 1335351

Ion	Ratio	Lower	Upper
152	100		
151	19.7	15.7	23.5
153	13.3	10.6	15.8

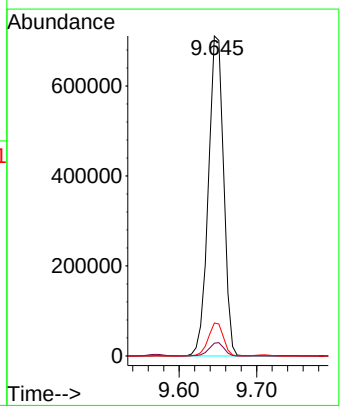


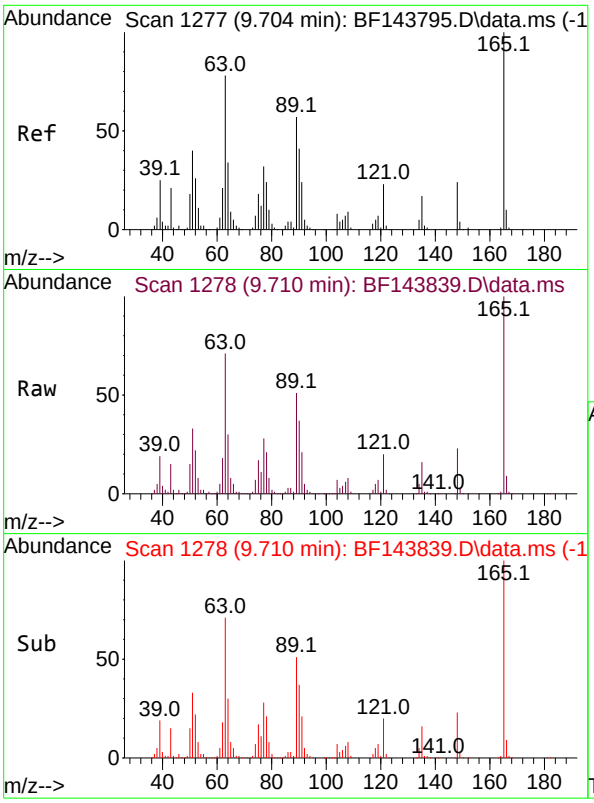


#50
Dimethylphthalate
Concen: 51.666 ng
RT: 9.645 min Scan# 1267
Delta R.T. 0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:163 Resp: 971315

Ion	Ratio	Lower	Upper
163	100		
194	4.0	3.0	4.6
164	10.3	8.2	12.2



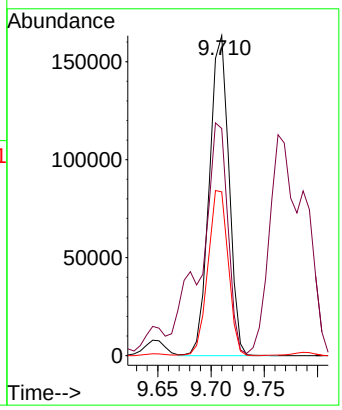


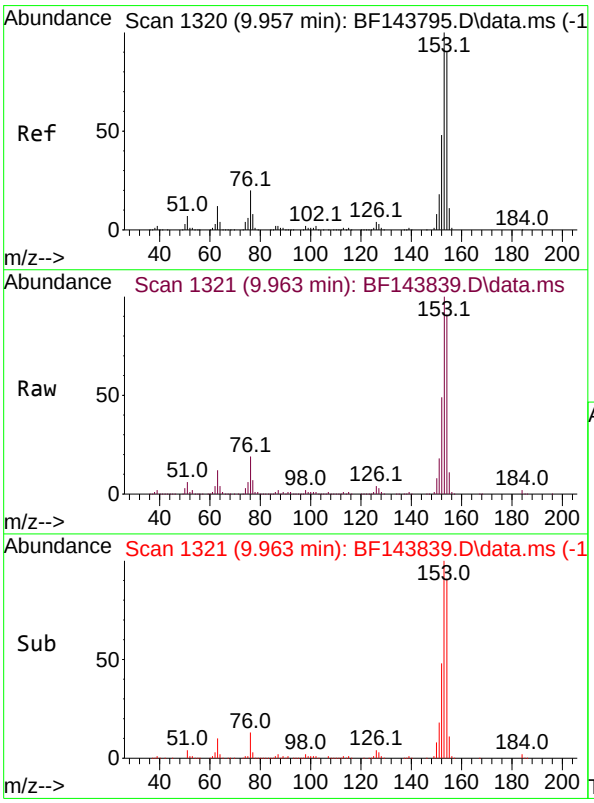
#51
2,6-Dinitrotoluene
Concen: 67.747 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:165 Resp: 209259

Ion	Ratio	Lower	Upper
165	100		
63	71.0	62.6	94.0
89	51.2	45.2	67.8

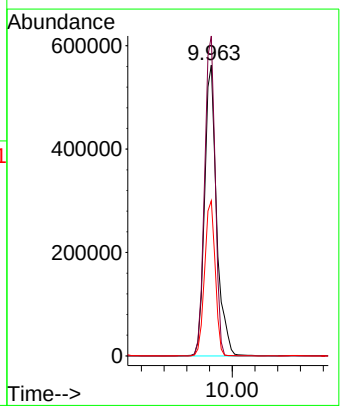


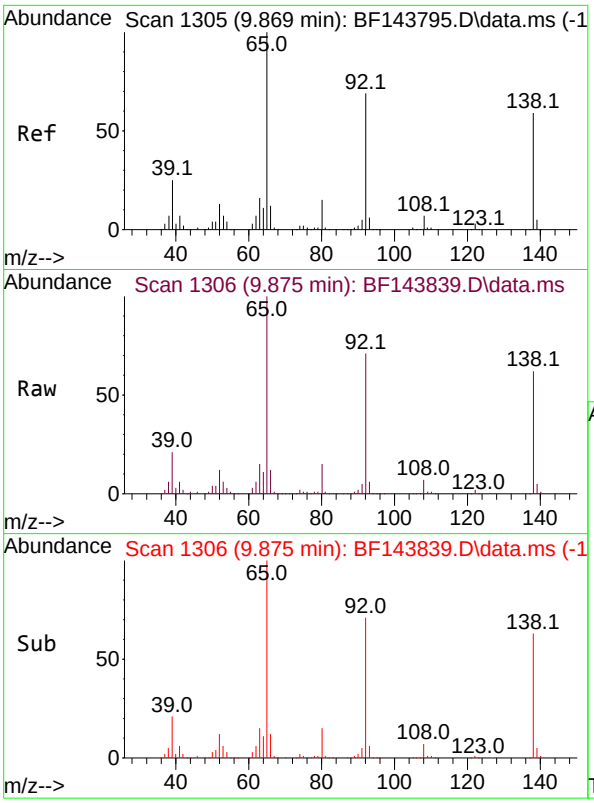


#52
Acenaphthene
Concen: 51.157 ng
RT: 9.963 min Scan# 1321
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:154 Resp: 832944

Ion	Ratio	Lower	Upper
154	100		
153	110.0	88.7	133.1
152	53.4	42.7	64.1



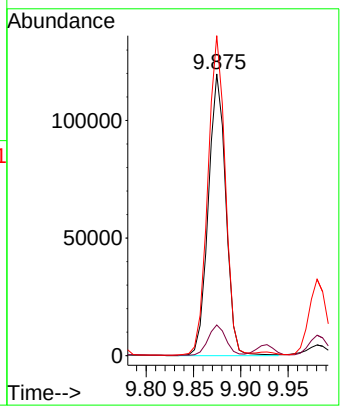


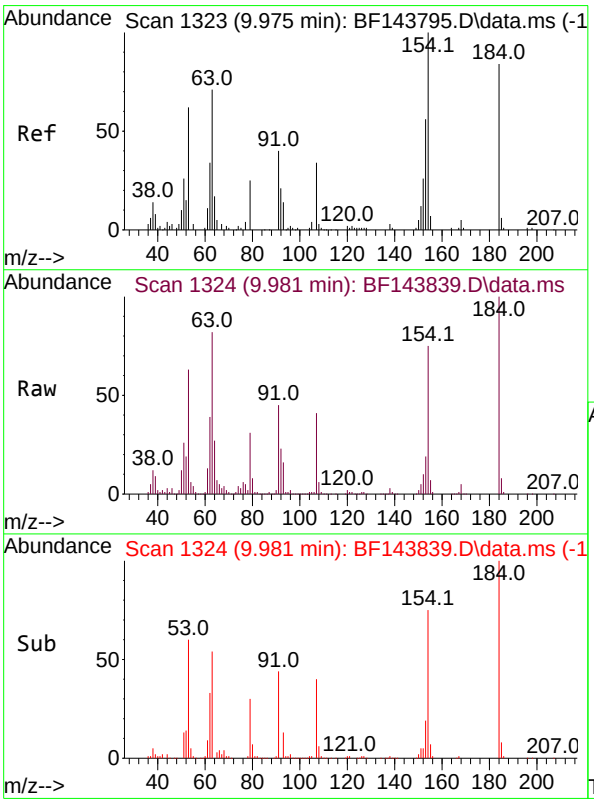
#53
3-Nitroaniline
Concen: 40.989 ng
RT: 9.875 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:138 Resp: 153465

Ion	Ratio	Lower	Upper
138	100		
108	10.9	9.9	14.9
92	113.6	93.5	140.3

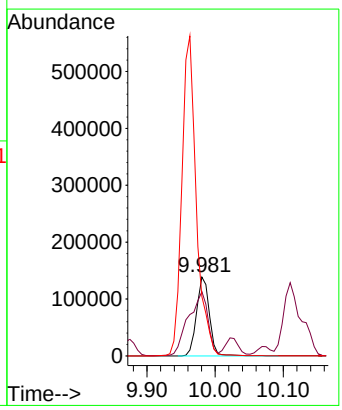


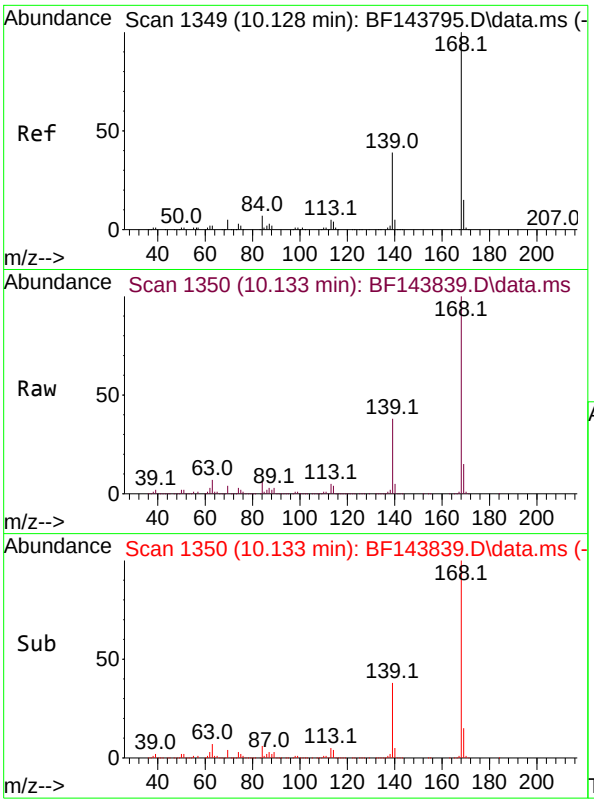


#54
2,4-Dinitrophenol
Concen: 110.555 ng
RT: 9.981 min Scan# 1324
Delta R.T. 0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:184 Resp: 180940

Ion	Ratio	Lower	Upper
184	100		
63	81.6	84.6	127.0#
154	75.3	199.3	298.9#



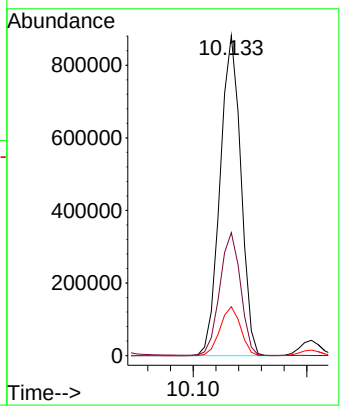


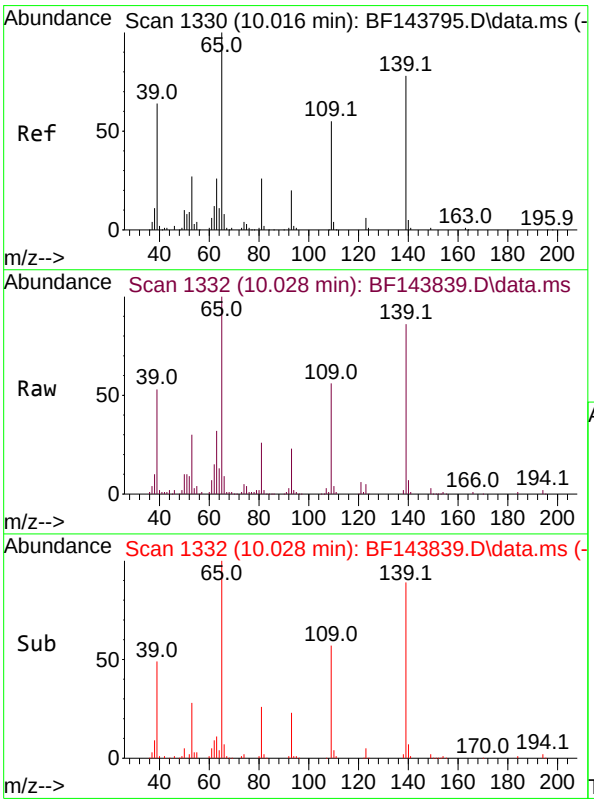
#55
Dibenzofuran
Concen: 48.697 ng
RT: 10.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:168 Resp: 1121195

Ion	Ratio	Lower	Upper
168	100		
139	38.4	31.0	46.6
169	15.3	11.9	17.9

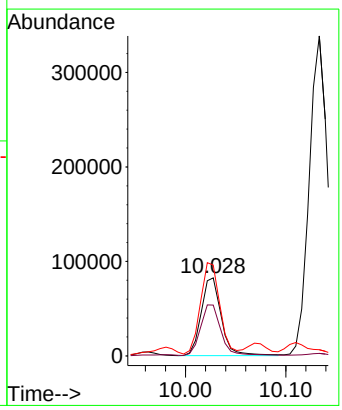


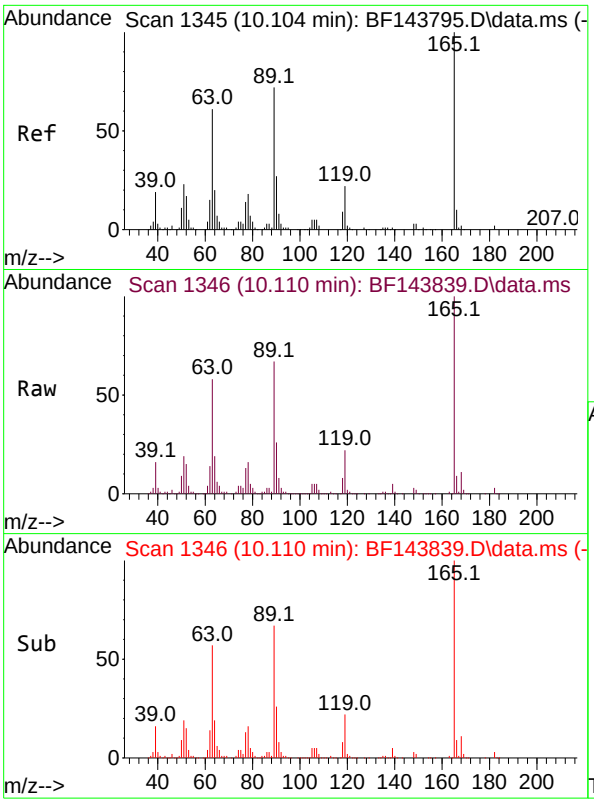


#56
4-Nitrophenol
Concen: 37.813 ng
RT: 10.028 min Scan# 1332
Delta R.T. 0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:139 Resp: 114085

Ion	Ratio	Lower	Upper
139	100		
109	65.0	50.2	90.2
65	116.3	109.2	149.2



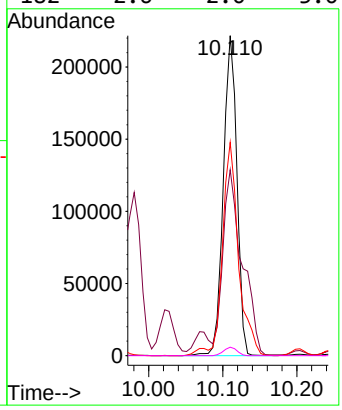


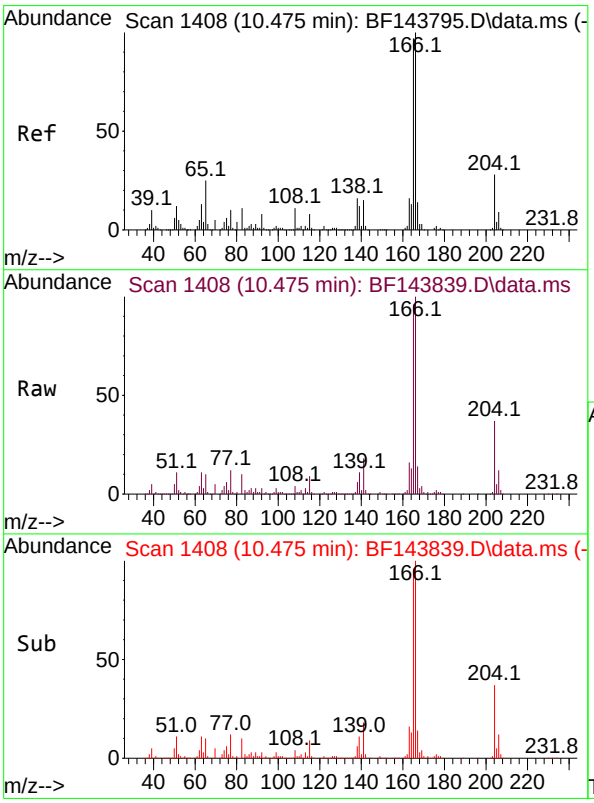
#57
2,4-Dinitrotoluene
Concen: 60.698 ng
RT: 10.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:165 Resp: 282053

Ion	Ratio	Lower	Upper
165	100		
63	58.1	48.9	73.3
89	66.6	57.5	86.3
182	2.6	2.0	3.0

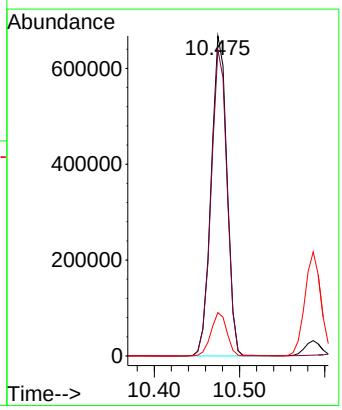


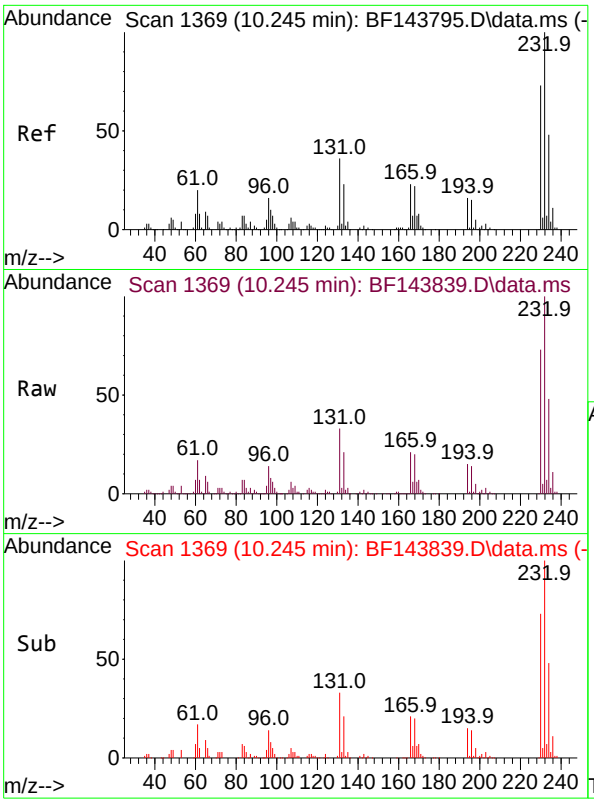


#58
Fluorene
Concen: 50.286 ng
RT: 10.475 min Scan# 1408
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:166 Resp: 860723

Ion	Ratio	Lower	Upper
166	100		
165	95.7	78.0	117.0
167	13.5	10.9	16.3



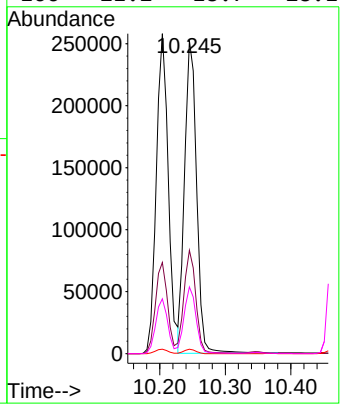


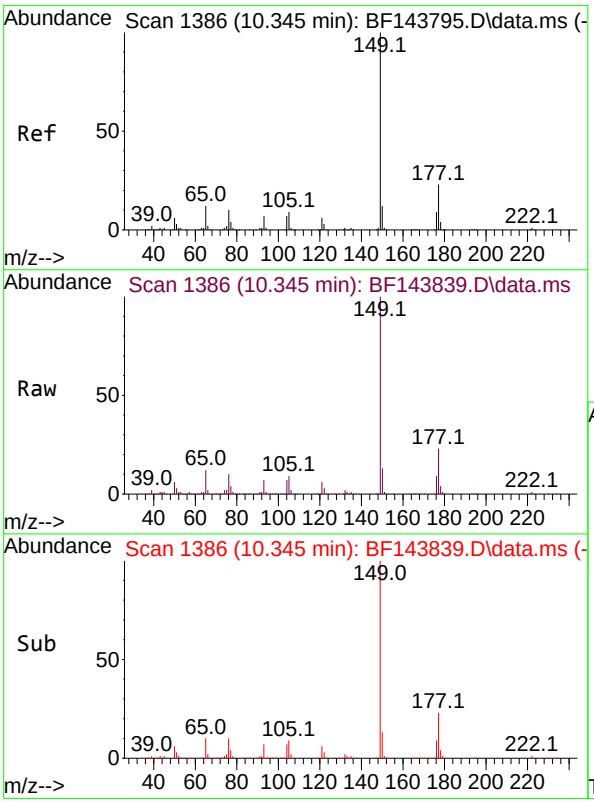
#59
2,3,4,6-Tetrachlorophenol
Concen: 61.840 ng
RT: 10.245 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:232 Resp: 322978

Ion	Ratio	Lower	Upper
232	100		
131	33.2	29.4	44.2
130	1.4	1.3	1.9
166	21.2	18.7	28.1

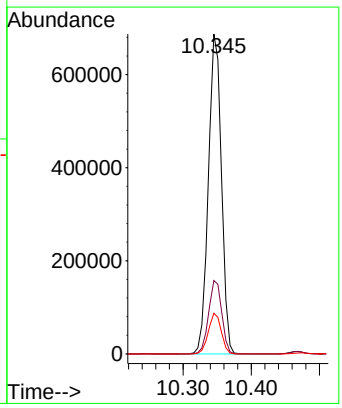


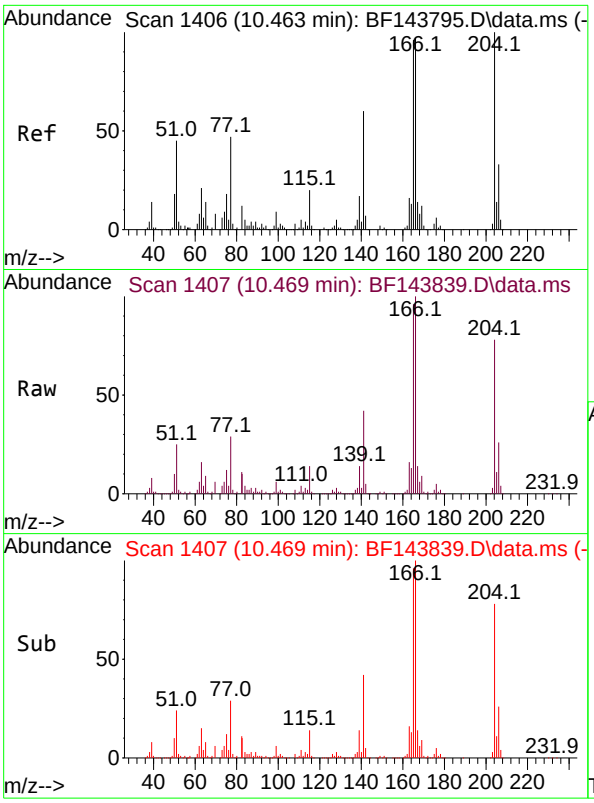


#60
Diethylphthalate
Concen: 51.889 ng
RT: 10.345 min Scan# 1386
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:149 Resp: 913166

Ion	Ratio	Lower	Upper
149	100		
177	22.9	18.1	27.1
150	12.7	9.7	14.5



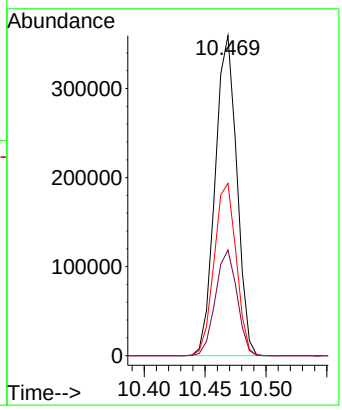


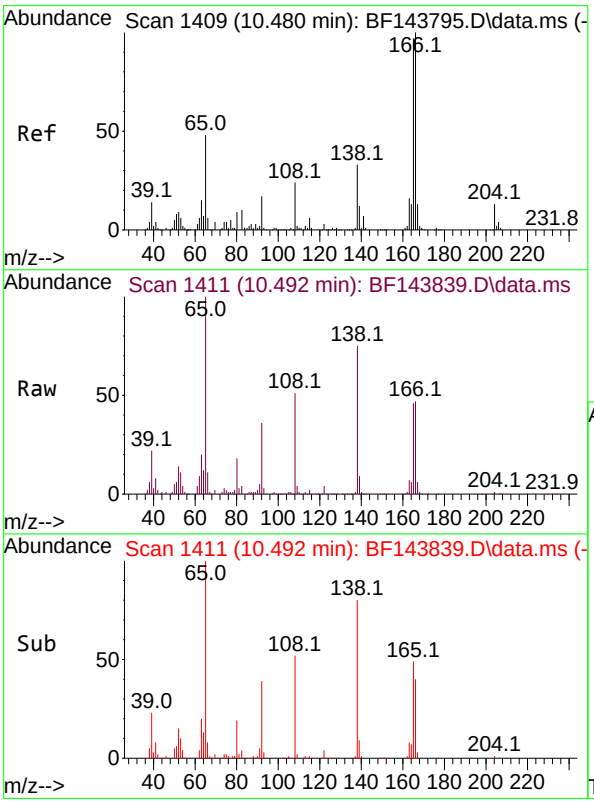
#61
4-Chlorophenyl-phenylether
Concen: 50.892 ng
RT: 10.469 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:204 Resp: 443846

Ion	Ratio	Lower	Upper
204	100		
206	33.0	26.7	40.1
141	53.8	48.2	72.2

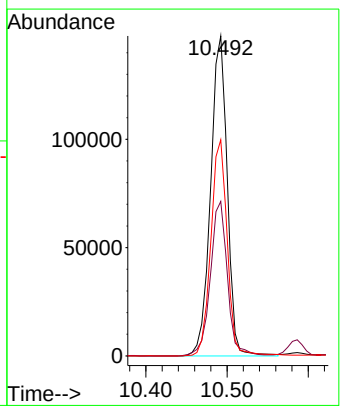


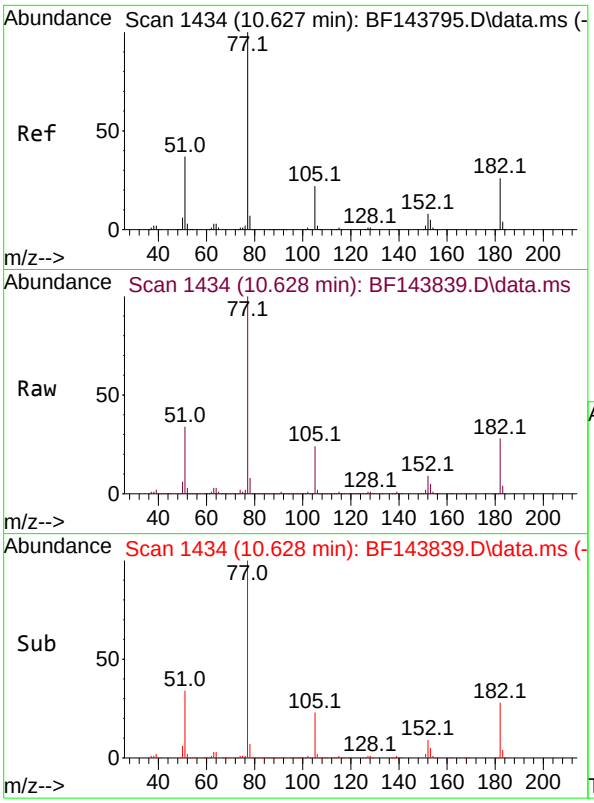


#62
4-Nitroaniline
Concen: 59.854 ng
RT: 10.492 min Scan# 1411
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:138 Resp: 210711

Ion	Ratio	Lower	Upper
138	100		
92	48.3	31.5	71.5
108	67.5	51.9	91.9



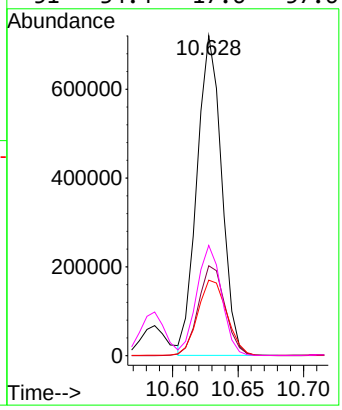


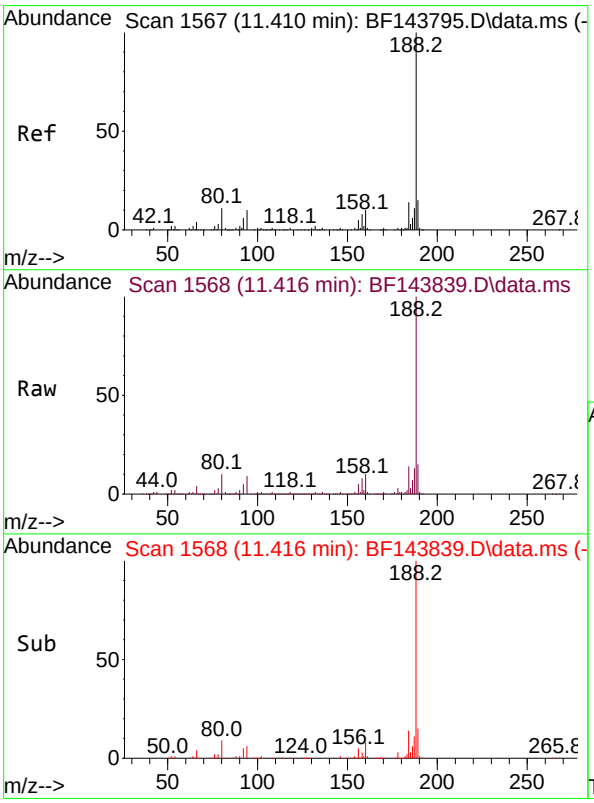
#63
Azobenzene
Concen: 50.688 ng
RT: 10.628 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion: 77 Resp: 940116

Ion	Ratio	Lower	Upper
77	100		
182	28.1	5.9	45.9
105	23.6	2.3	42.3
51	34.4	17.6	57.6

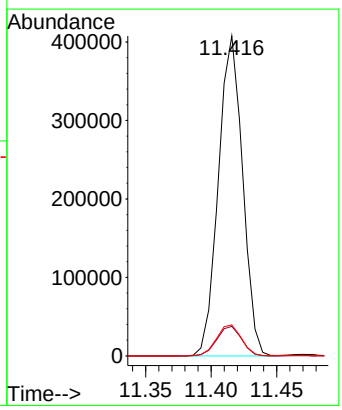


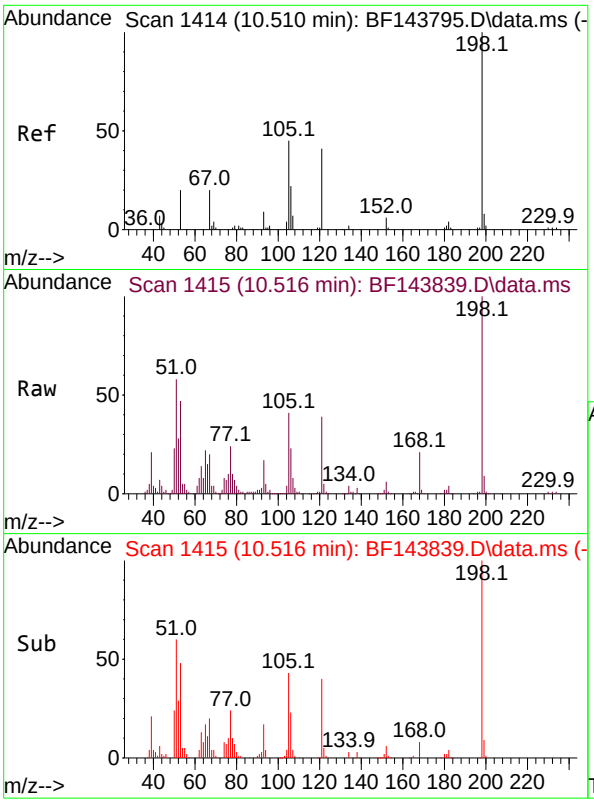


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:188 Resp: 524531

Ion	Ratio	Lower	Upper
188	100		
94	9.2	8.2	12.2
80	9.7	8.6	12.8



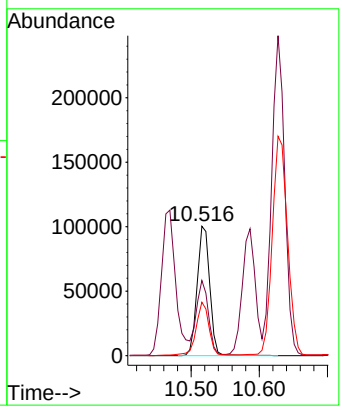


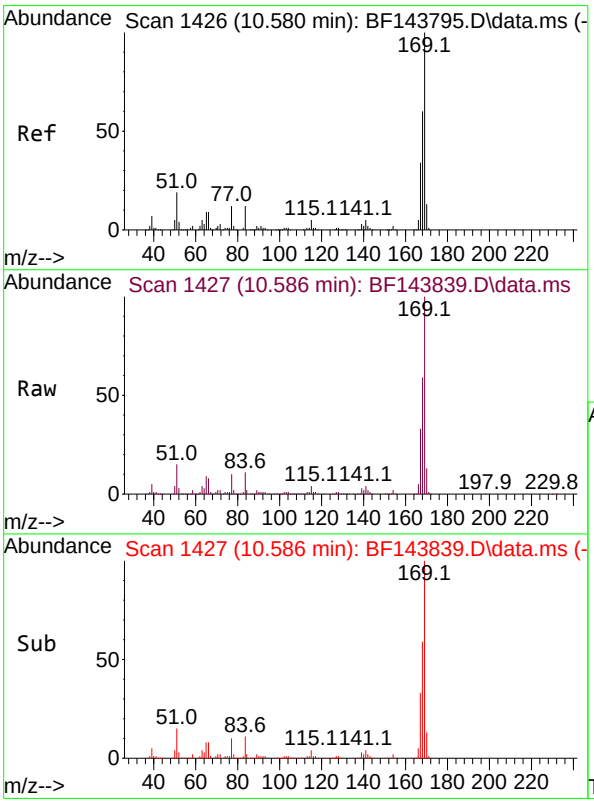
#65
4,6-Dinitro-2-methylphenol
Concen: 61.799 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:198 Resp: 128497

Ion	Ratio	Lower	Upper
198	100		
51	58.0	52.0	92.0
105	41.2	27.5	67.5

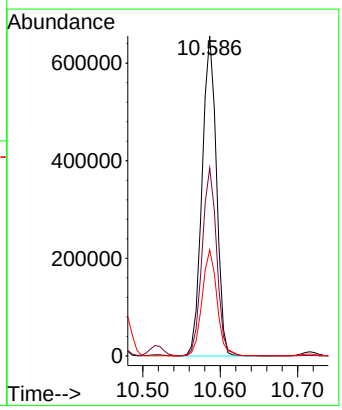


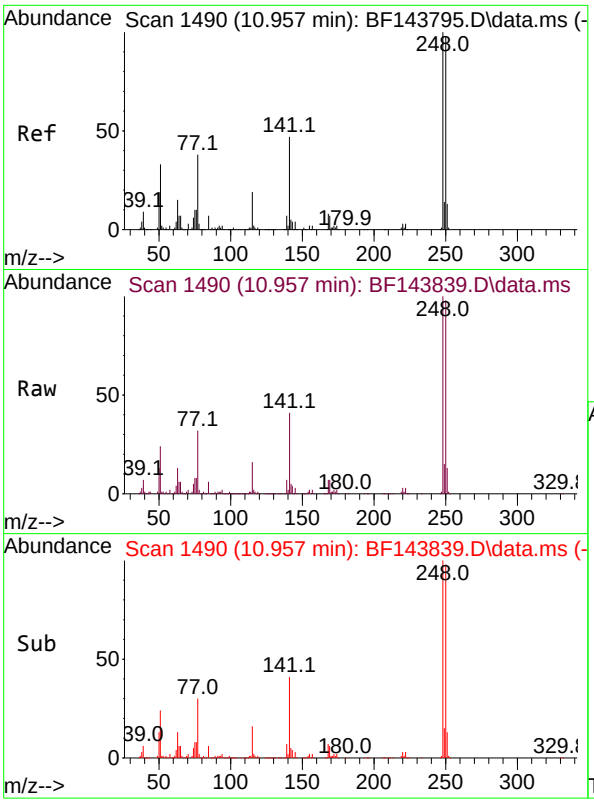


#66
n-Nitrosodiphenylamine
Concen: 48.865 ng
RT: 10.586 min Scan# 1427
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:169 Resp: 842925

Ion	Ratio	Lower	Upper
169	100		
168	58.7	47.9	71.9
167	33.1	27.0	40.6



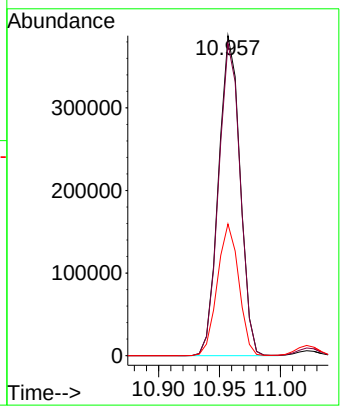


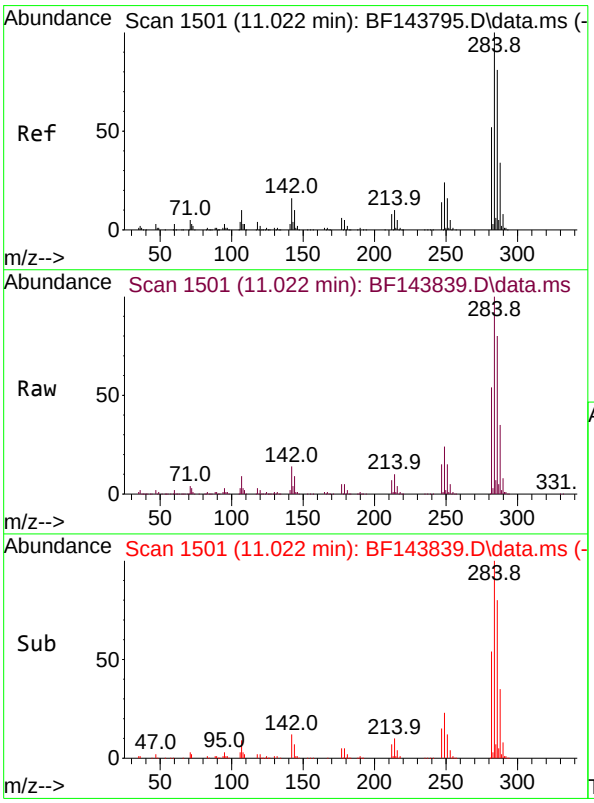
#67
4-Bromophenyl-phenylether
Concen: 53.270 ng
RT: 10.957 min Scan# 14
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:248 Resp: 476173

Ion	Ratio	Lower	Upper
248	100		
250	97.5	78.7	118.1
141	41.1	37.9	56.9

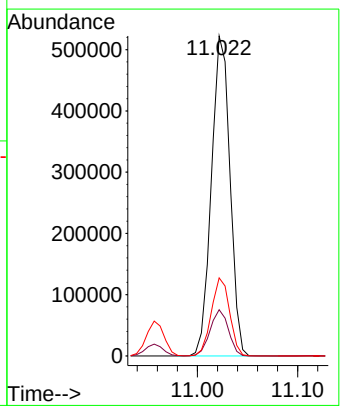


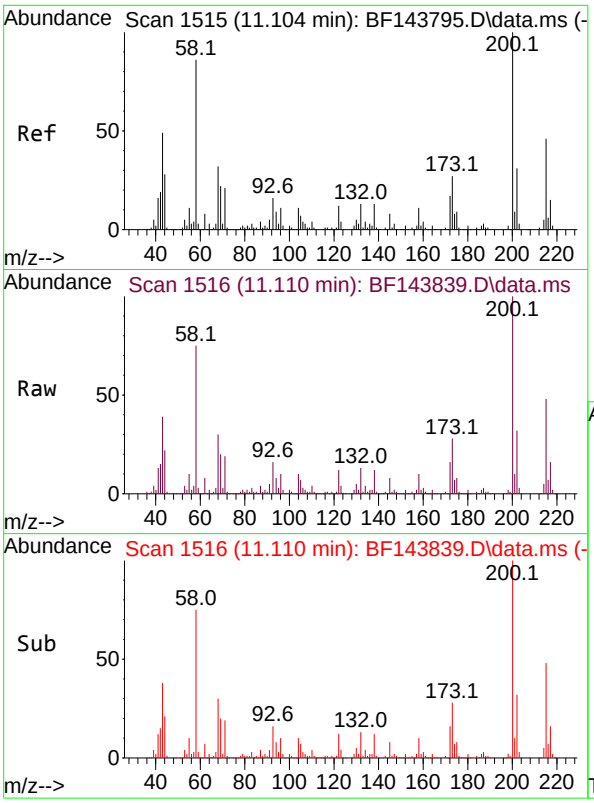


#68
Hexachlorobenzene
Concen: 54.613 ng
RT: 11.022 min Scan# 1501
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:284 Resp: 672756

Ion	Ratio	Lower	Upper
284	100		
142	14.4	13.1	19.7
249	24.4	19.5	29.3



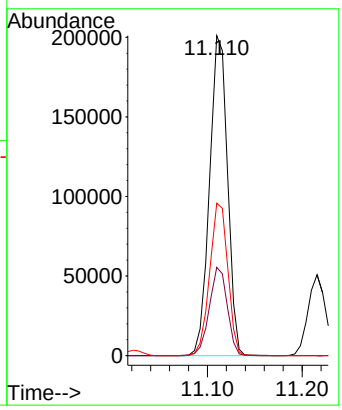


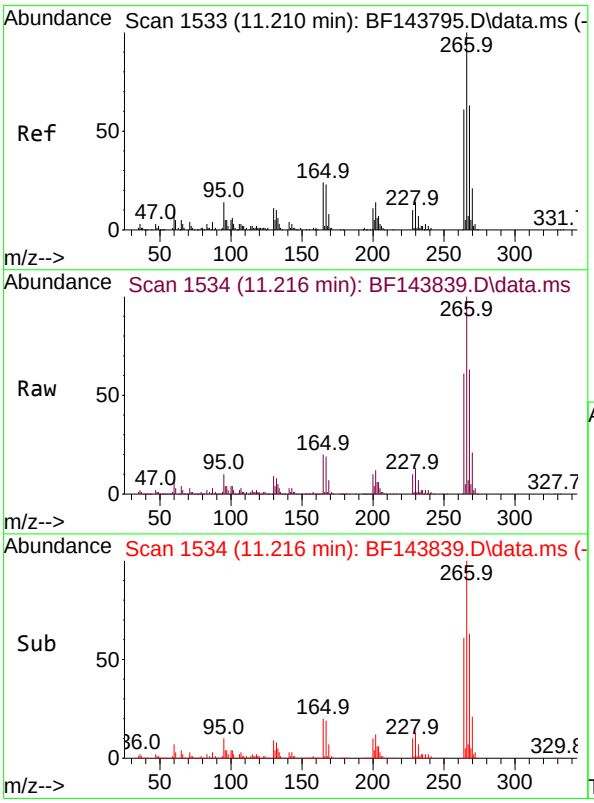
#69
Atrazine
Concen: 53.170 ng
RT: 11.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:200 Resp: 265604

Ion	Ratio	Lower	Upper
200	100		
173	27.6	7.2	47.2
215	47.6	26.0	66.0

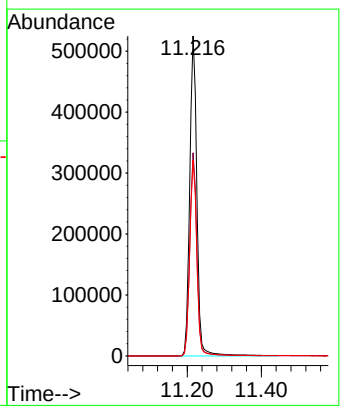


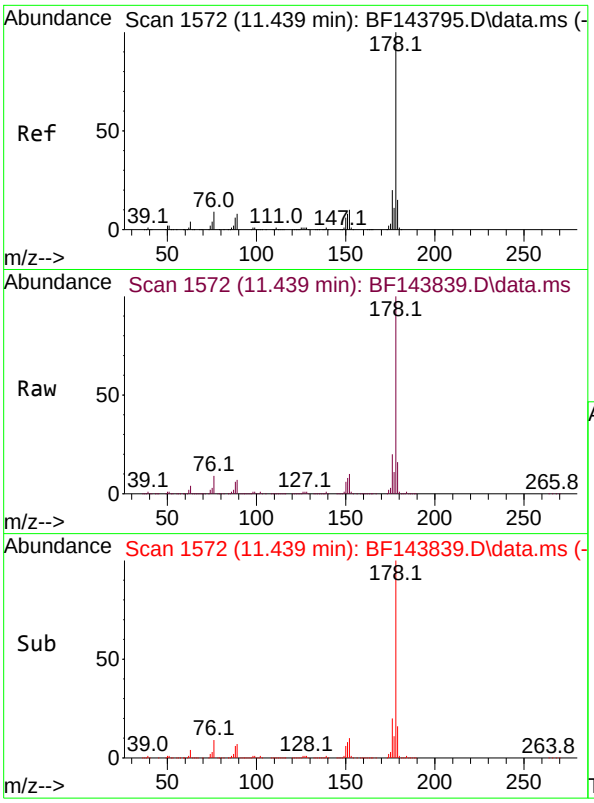


#70
Pentachlorophenol
Concen: 114.953 ng
RT: 11.216 min Scan# 1534
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:266 Resp: 704887

Ion	Ratio	Lower	Upper
266	100		
268	63.5	50.5	75.7
264	61.2	48.8	73.2



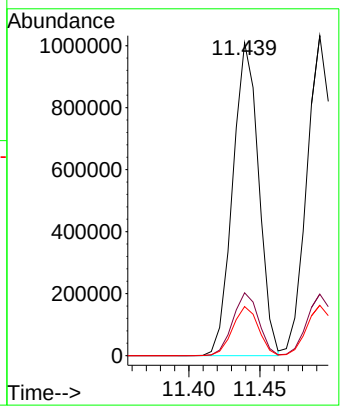


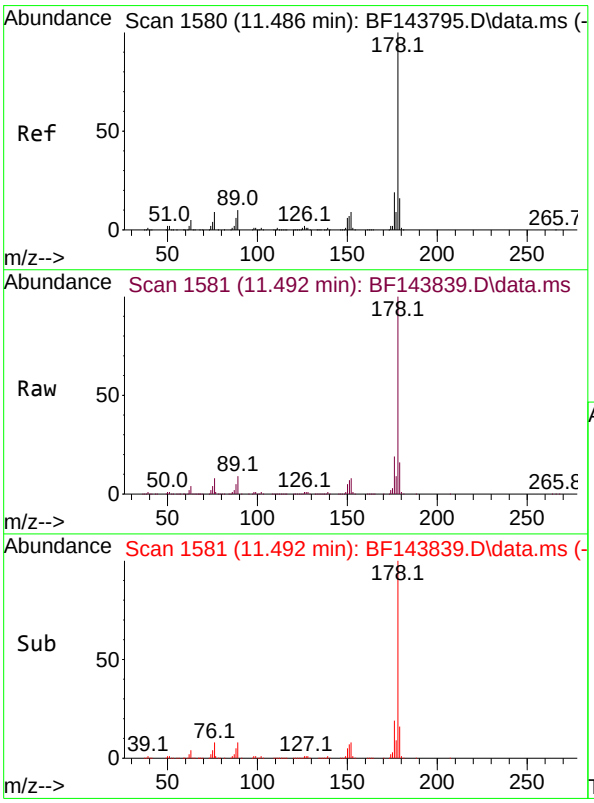
#71
Phenanthrene
Concen: 47.478 ng
RT: 11.439 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:178 Resp: 1278544

Ion	Ratio	Lower	Upper
178	100		
176	20.1	15.6	23.4
179	15.7	12.2	18.4

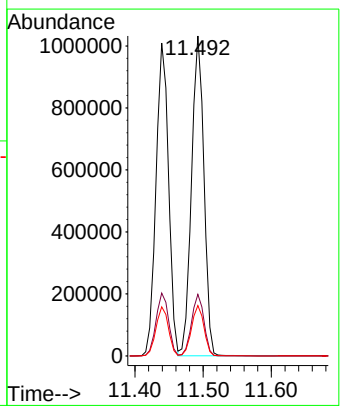


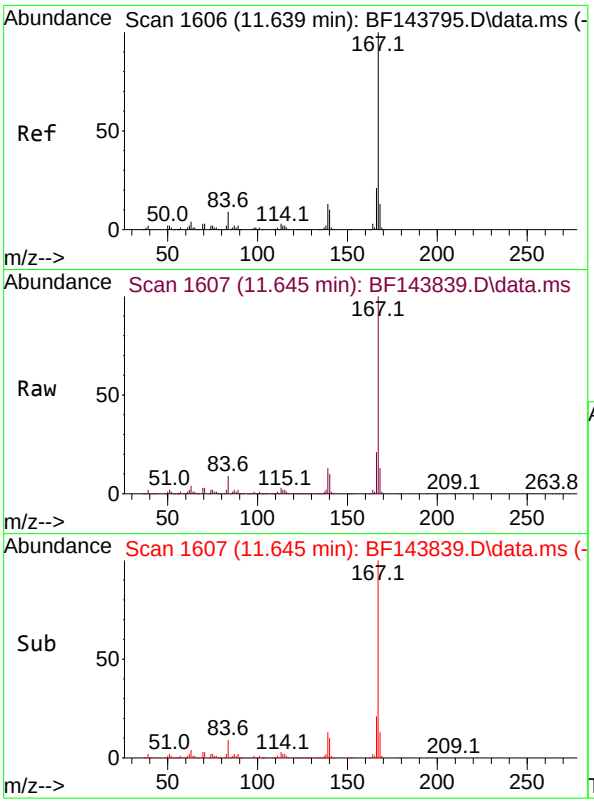


#72
Anthracene
Concen: 48.404 ng
RT: 11.492 min Scan# 1581
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:178 Resp: 1307493

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.8	12.8	19.2



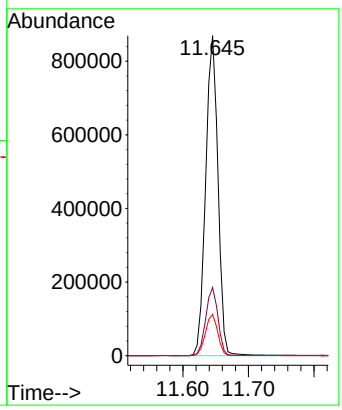


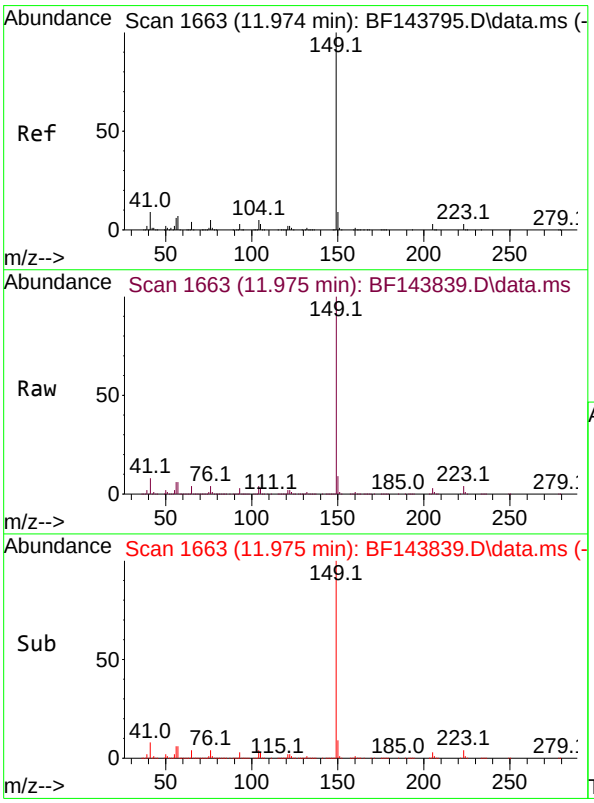
#73
Carbazole
Concen: 47.781 ng
RT: 11.645 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:167 Resp: 1128457

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.0	25.4
139	12.9	10.6	15.8

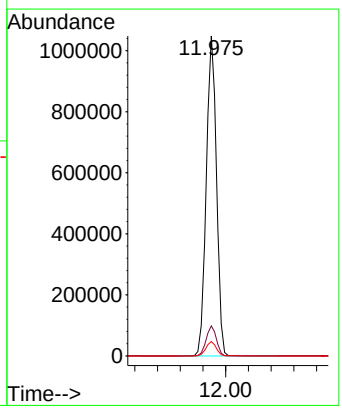


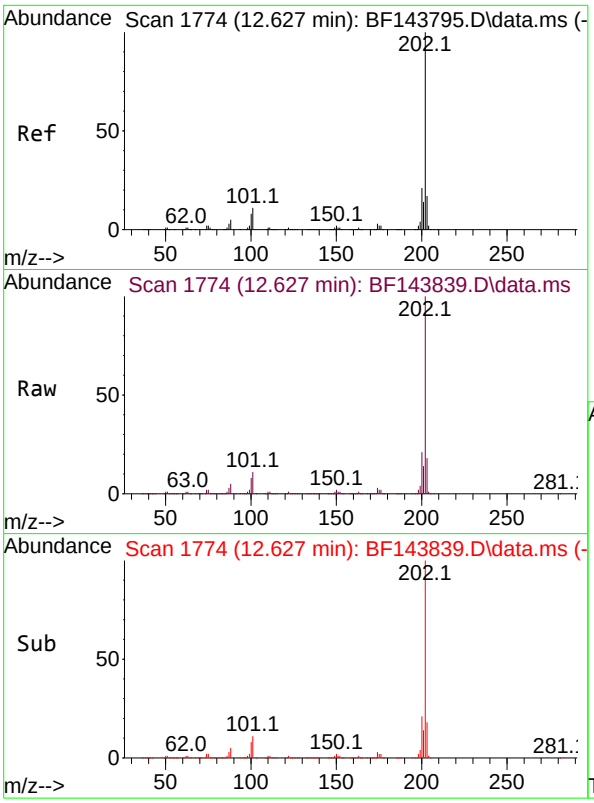


#74
Di-n-butylphthalate
Concen: 48.389 ng
RT: 11.975 min Scan# 1663
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:149 Resp: 1314339

Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.3	10.9
104	4.5	3.6	5.4



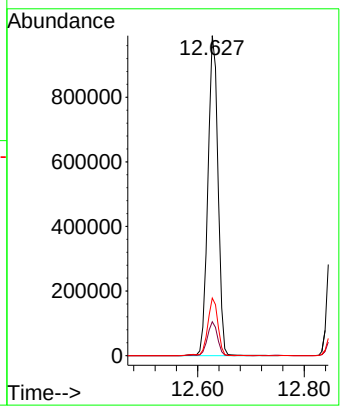


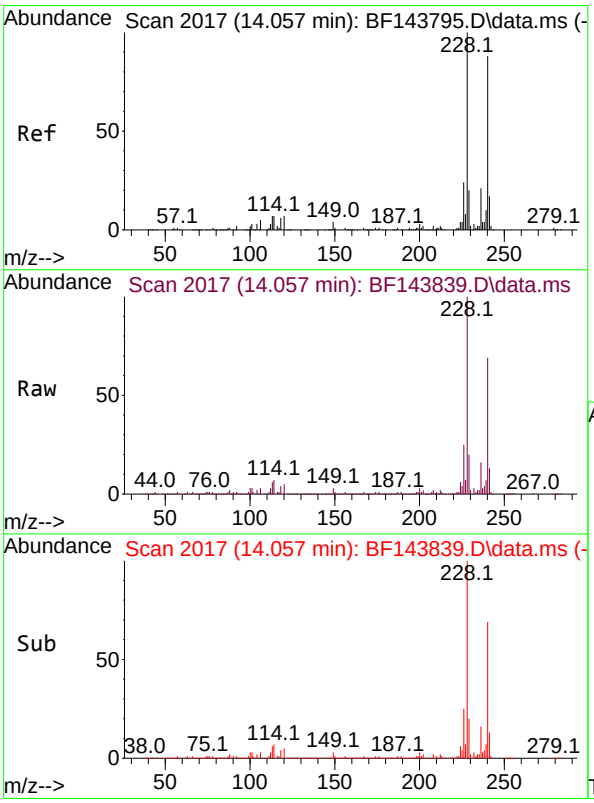
#75
Fluoranthene
Concen: 48.065 ng
RT: 12.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:202 Resp: 1301831

Ion	Ratio	Lower	Upper
202	100		
101	10.6	0.0	31.1
203	18.0	0.0	37.4

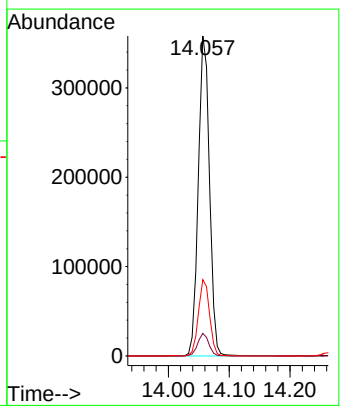


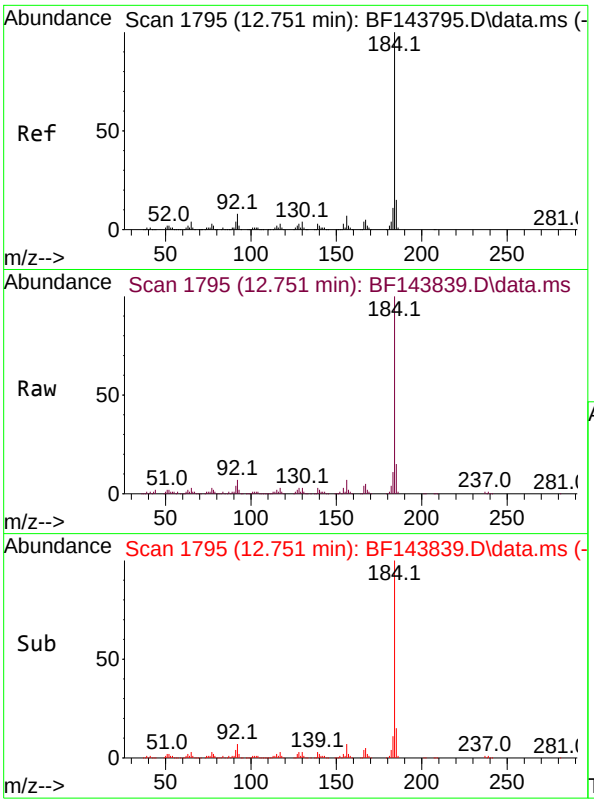


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:240 Resp: 454958

Ion	Ratio	Lower	Upper
240	100		
120	7.0	6.2	9.4
236	23.9	19.4	29.2



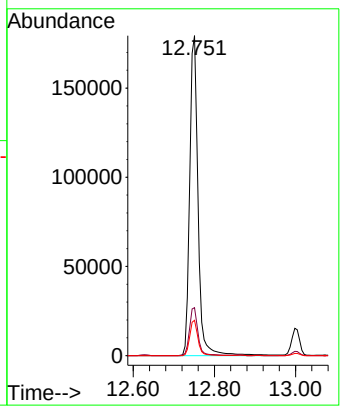


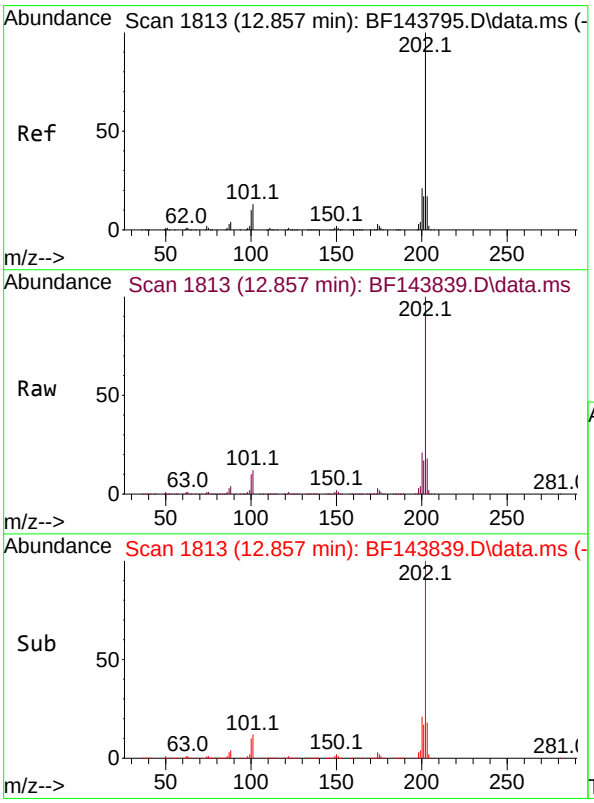
#77
Benzidine
Concen: 23.022 ng
RT: 12.751 min Scan# 1
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:184 Resp: 255230

Ion	Ratio	Lower	Upper
184	100		
185	15.0	11.6	17.4
183	11.0	8.6	13.0

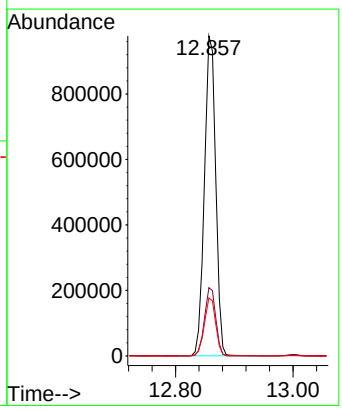


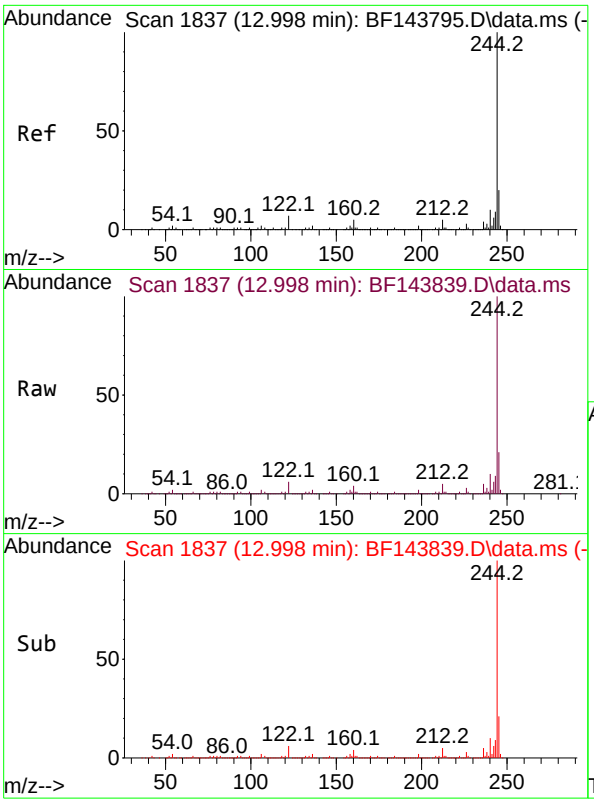


#78
Pyrene
Concen: 58.264 ng
RT: 12.857 min Scan# 1813
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:202 Resp: 1303227

Ion	Ratio	Lower	Upper
202	100		
200	21.4	17.0	25.4
203	18.1	13.9	20.9



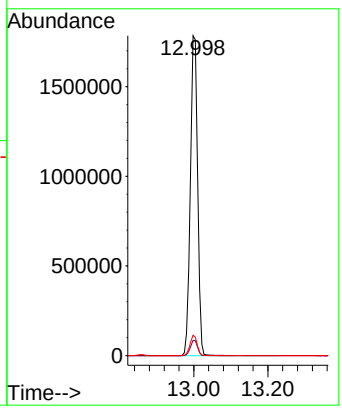


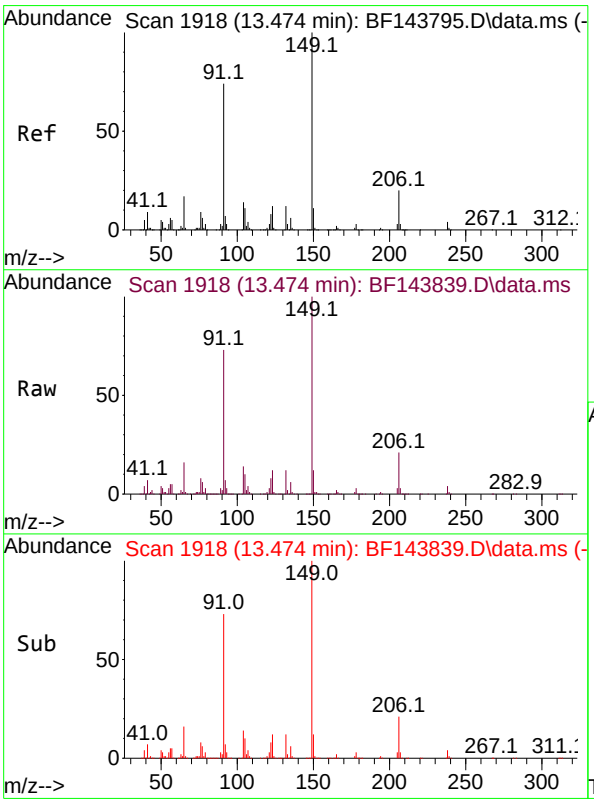
#79
Terphenyl-d14
Concen: 108.526 ng
RT: 12.998 min Scan# 18
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:244 Resp: 2427768

Ion	Ratio	Lower	Upper
244	100		
212	4.8	3.9	5.9
122	6.4	5.6	8.4

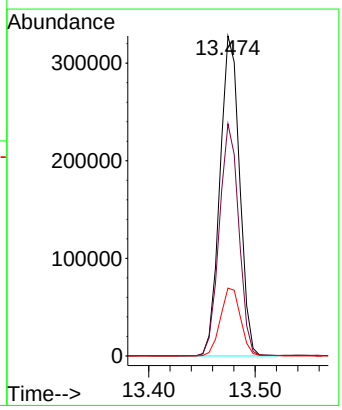


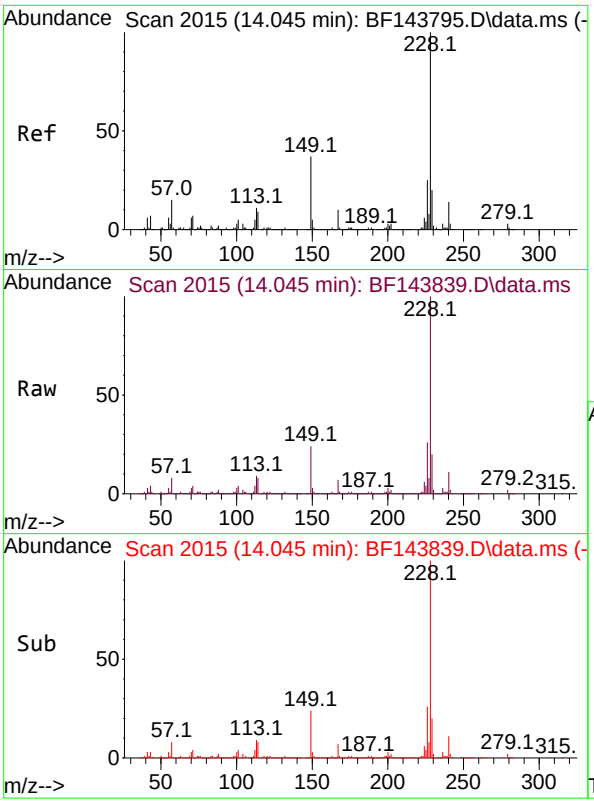


#80
Butylbenzylphthalate
Concen: 54.401 ng
RT: 13.474 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:149 Resp: 420988

Ion	Ratio	Lower	Upper
149	100		
91	72.5	59.5	89.3
206	21.2	16.1	24.1



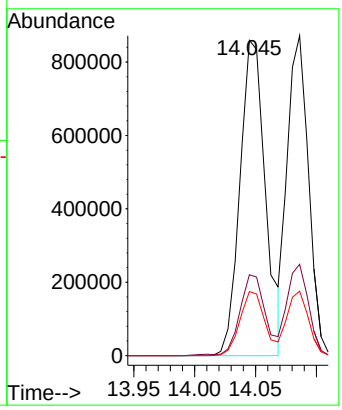


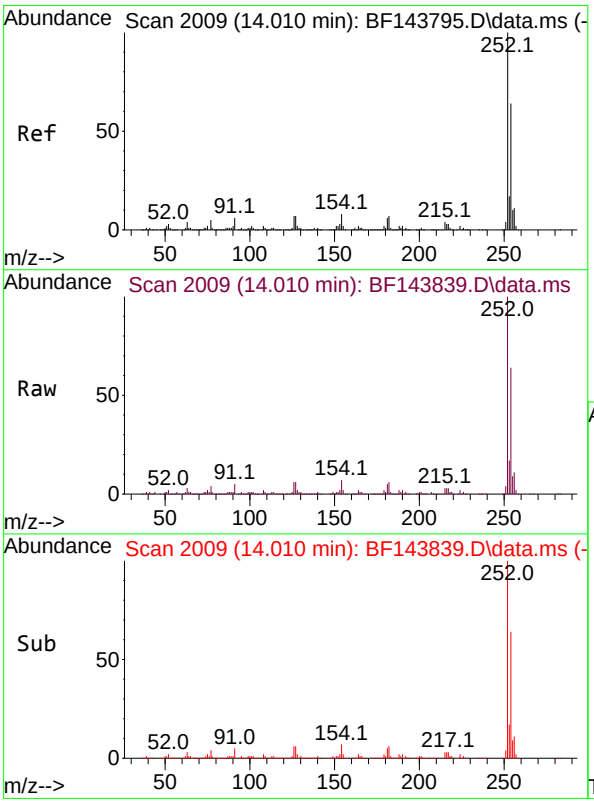
#81
Benzo(a)anthracene
Concen: 51.185 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:228 Resp: 1251024

Ion	Ratio	Lower	Upper
228	100		
226	25.7	20.2	30.2
229	20.3	16.1	24.1

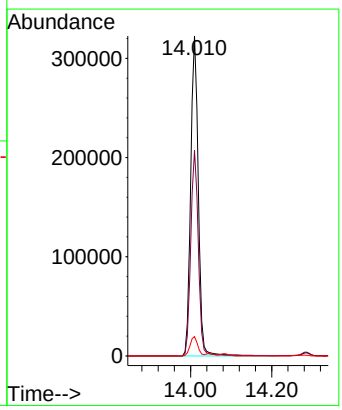


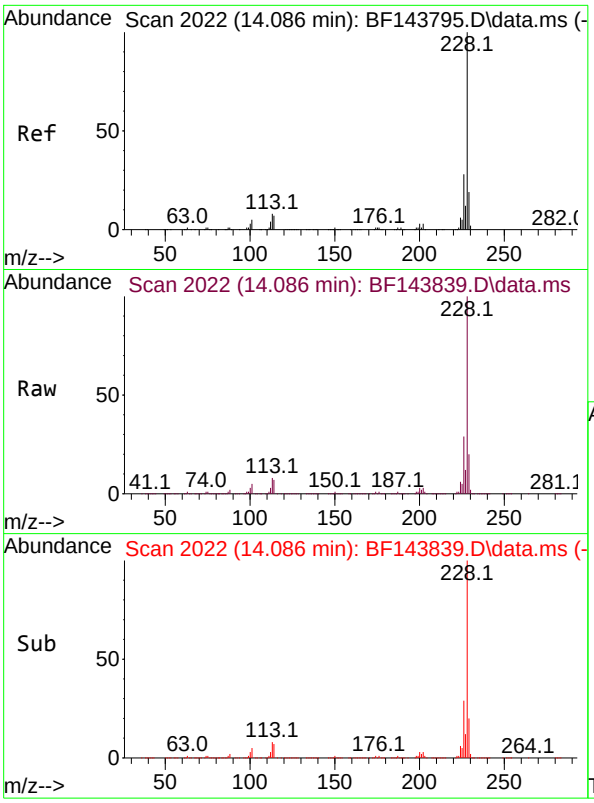


#82
3,3'-Dichlorobenzidine
Concen: 39.435 ng
RT: 14.010 min Scan# 2009
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:252 Resp: 417555

Ion	Ratio	Lower	Upper
252	100		
254	64.2	51.5	77.3
126	6.0	5.4	8.2



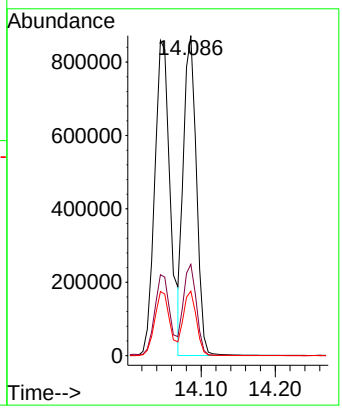


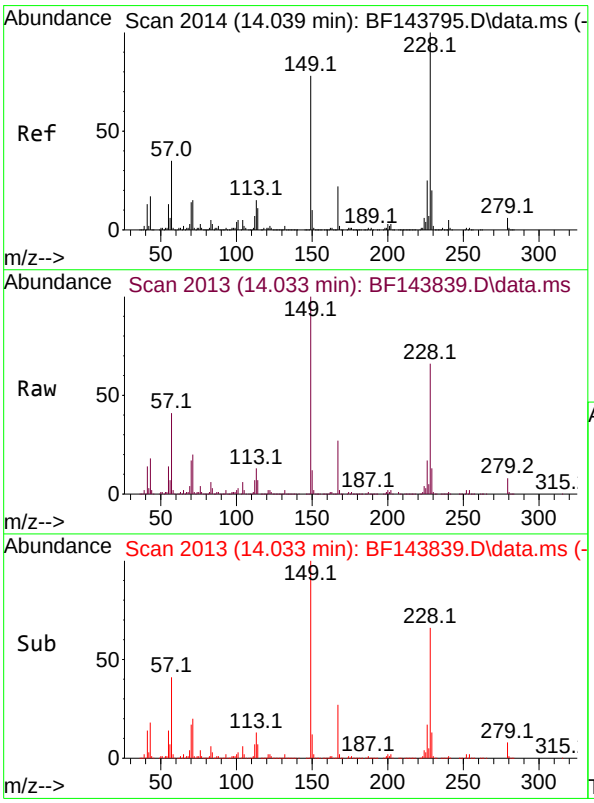
#83
Chrysene
Concen: 48.042 ng
RT: 14.086 min Scan# 20
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:228 Resp: 1062486

Ion	Ratio	Lower	Upper
228	100		
226	28.5	22.6	33.8
229	20.1	15.6	23.4

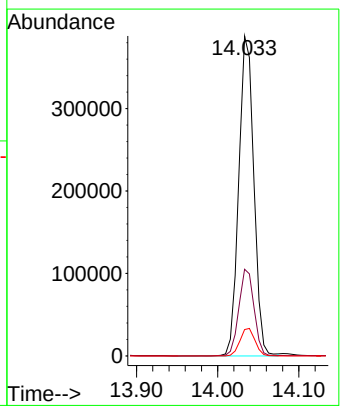


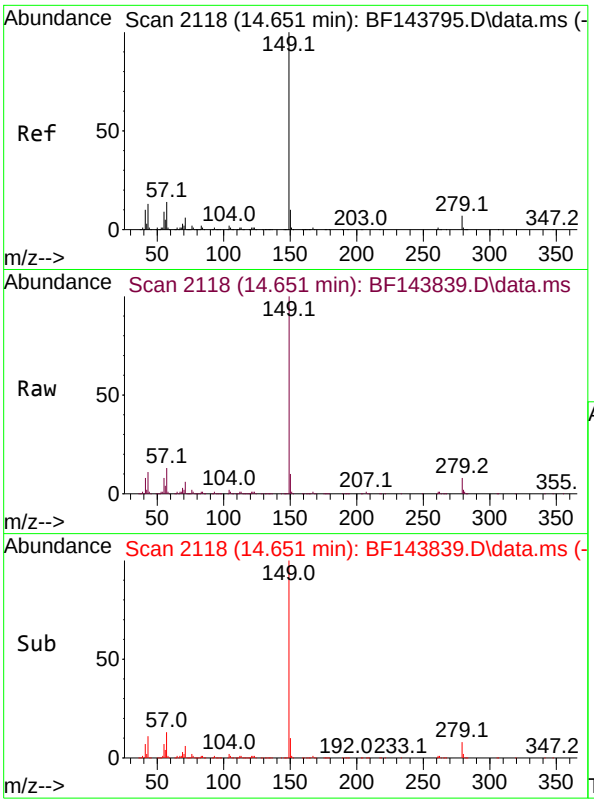


#84
Bis(2-ethylhexyl)phthalate
Concen: 44.200 ng
RT: 14.033 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:149 Resp: 501367

Ion	Ratio	Lower	Upper
149	100		
167	27.1	22.2	33.2
279	8.2	6.0	9.0



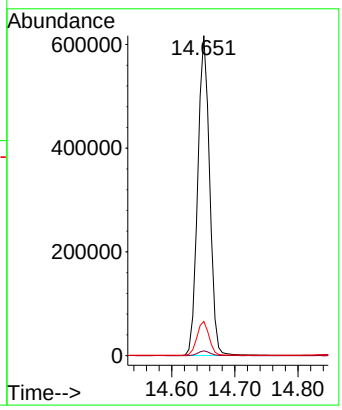


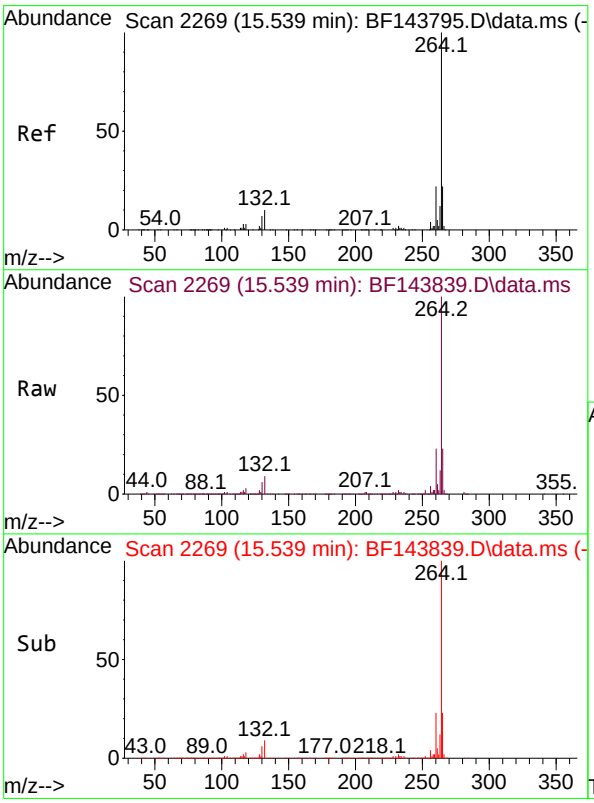
#85
Di-n-octyl phthalate
Concen: 39.214 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:149 Resp: 806850

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.1	1.7
43	10.7	10.7	16.1#

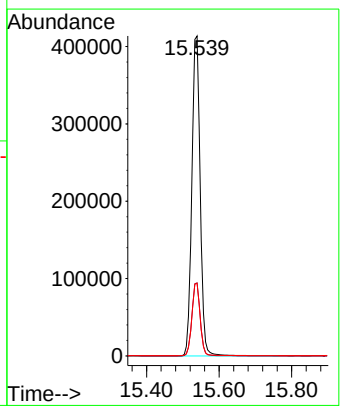


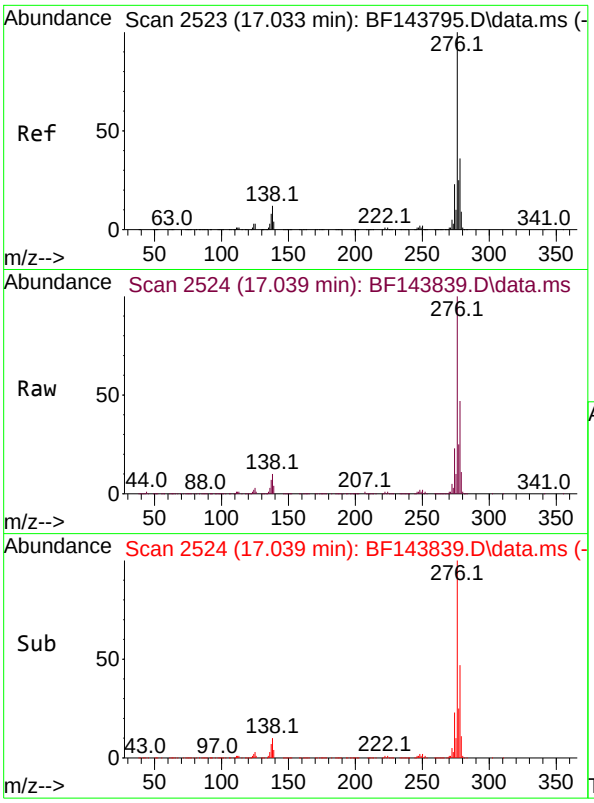


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.539 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:264 Resp: 661650

Ion	Ratio	Lower	Upper
264	100		
260	22.8	17.9	26.9
265	22.7	17.7	26.5



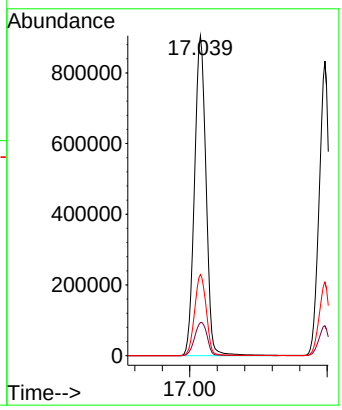


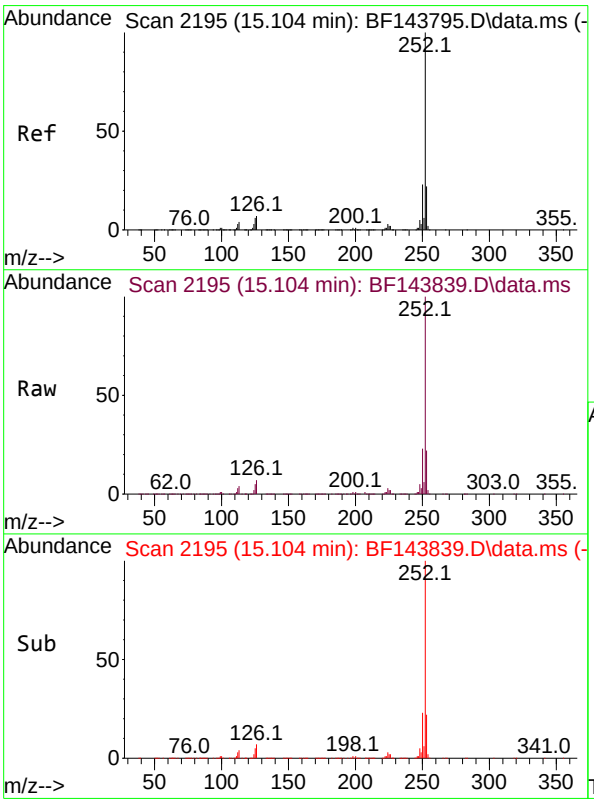
#87
Indeno(1,2,3-cd)pyrene
Concen: 52.285 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:276 Resp: 2624823

Ion	Ratio	Lower	Upper
276	100		
138	11.2	10.6	15.8
277	25.8	20.7	31.1

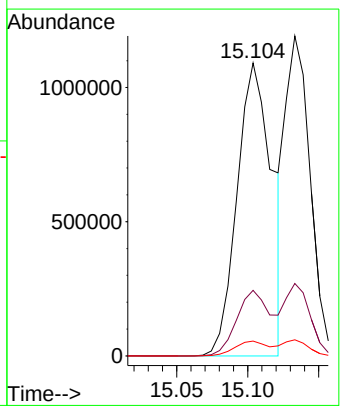


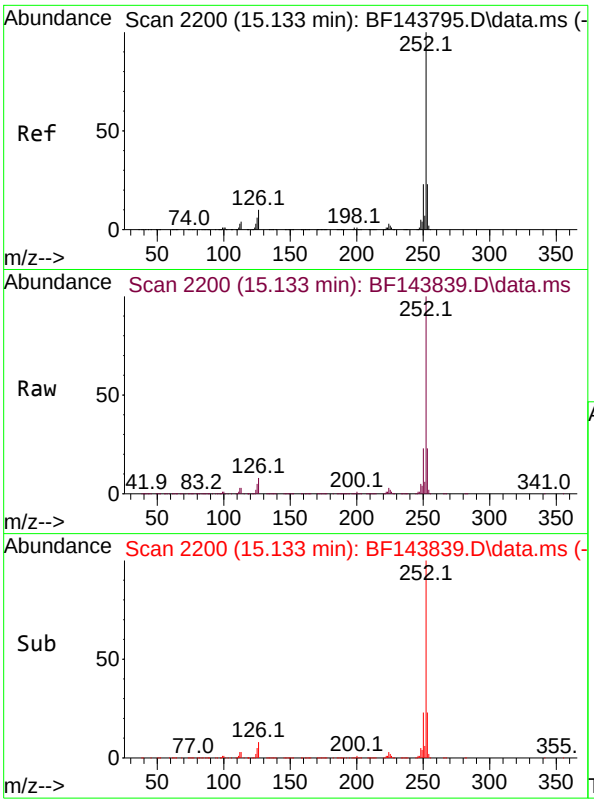


#88
Benzo(b)fluoranthene
Concen: 55.342 ng
RT: 15.104 min Scan# 2195
Delta R.T. 0.000 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:252 Resp: 1864727

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.8
125	5.0	4.4	6.6



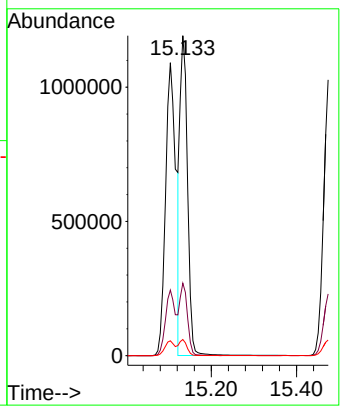


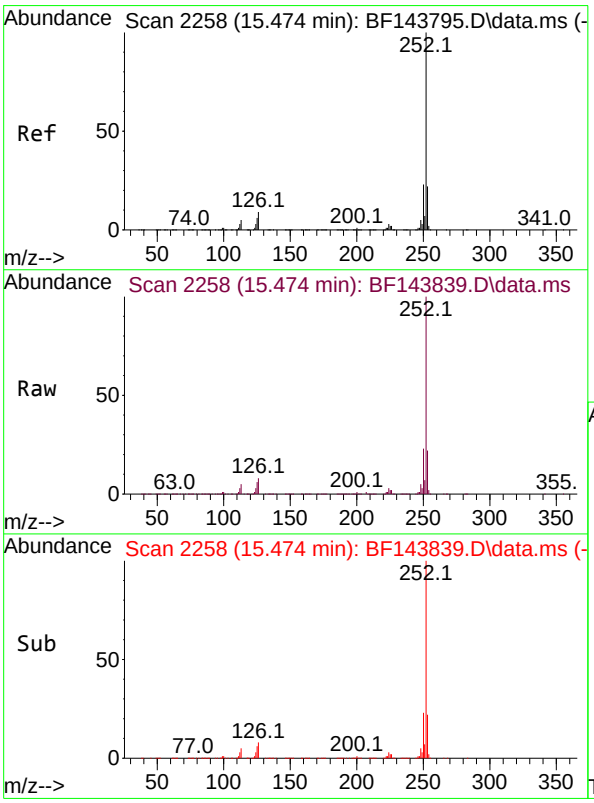
#89
Benzo(k)fluoranthene
Concen: 43.467 ng
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:252 Resp: 1471424

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9
125	5.0	4.6	6.8

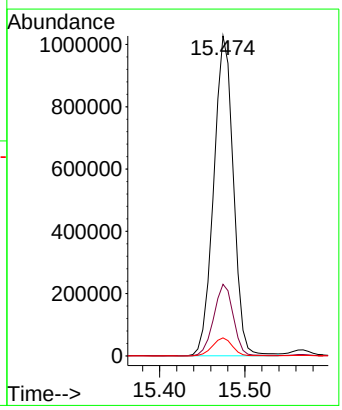


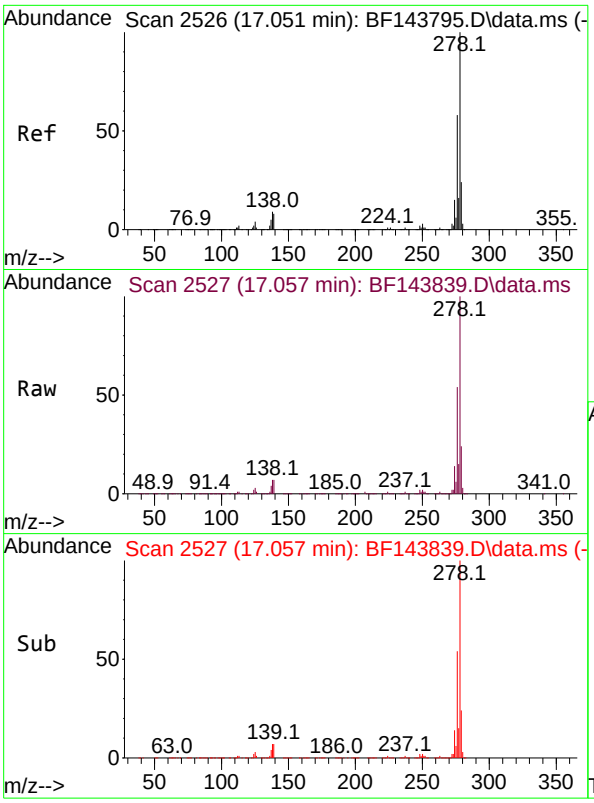


#90
Benzo(a)pyrene
Concen: 51.980 ng
RT: 15.474 min Scan# 2258
Delta R.T. -0.006 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:252 Resp: 1646318

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.6	26.4
125	5.6	5.0	7.4



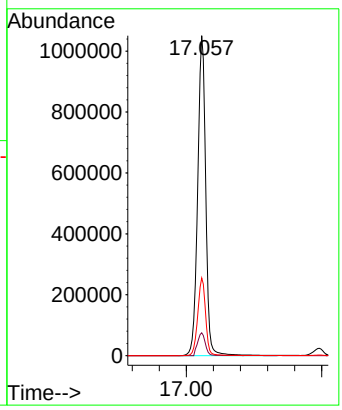


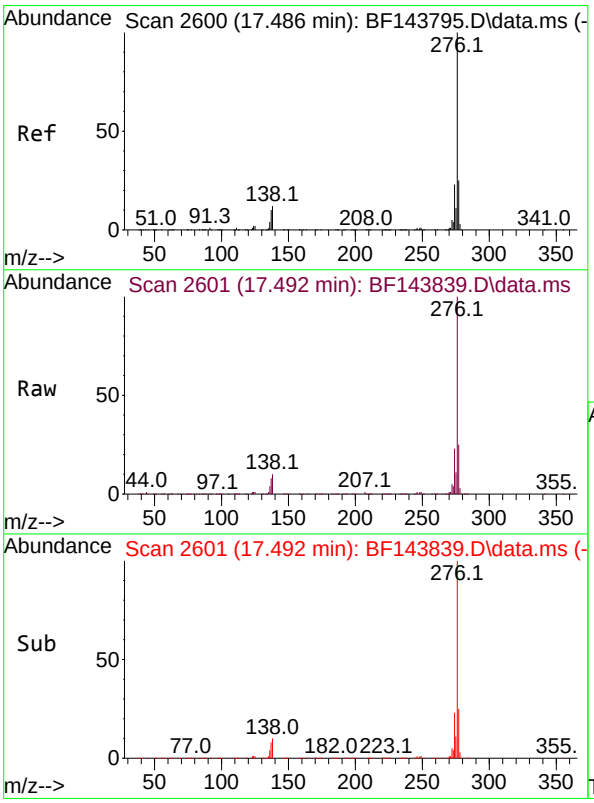
#91
Dibenzo(a,h)anthracene
Concen: 52.551 ng
RT: 17.057 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MS

Tgt Ion:278 Resp: 2157767

Ion	Ratio	Lower	Upper
278	100		
139	7.1	6.7	10.1
279	24.3	19.3	28.9

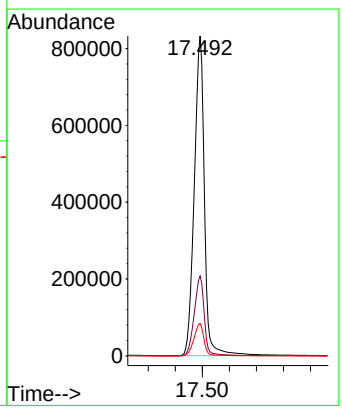




#92
Benzo(g,h,i)perylene
Concen: 54.609 ng
RT: 17.492 min Scan# 2601
Delta R.T. -0.012 min
Lab File: BF143839.D
Acq: 30 Sep 2025 18:05

Tgt Ion:276 Resp: 2161490

Ion	Ratio	Lower	Upper
276	100		
277	25.0	19.6	29.4
138	10.1	9.2	13.8



Raw Data: **BF143840.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01MSD	SDG No.:	Q3177
Lab Sample ID:	Q3179-03MSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143840.D	1	09/29/25 08:42	09/30/25 18:35	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
62-75-9	n-Nitrosodimethylamine	18.8		0.86	10.0	ug/L
110-86-1	Pyridine	19.2		1.30	5.00	ug/L
100-52-7	Benzaldehyde	30.4		3.90	10.0	ug/L
62-53-3	Aniline	27.2		1.50	5.00	ug/L
108-95-2	Phenol	17.5		0.91	5.00	ug/L
111-44-4	bis(2-Chloroethyl)ether	45.6		0.81	5.00	ug/L
95-57-8	2-Chlorophenol	39.1		0.58	5.00	ug/L
100-51-6	Benzyl Alcohol	37.6		1.60	10.0	ug/L
95-48-7	2-Methylphenol	34.7		1.10	5.00	ug/L
108-60-1	2,2-oxybis(1-Chloropropane)	39.6		1.30	5.00	ug/L
98-86-2	Acetophenone	53.2		0.74	5.00	ug/L
65794-96-9	3+4-Methylphenols	31.0		1.10	10.0	ug/L
621-64-7	n-Nitroso-di-n-propylamine	49.6		1.40	2.50	ug/L
67-72-1	Hexachloroethane	39.7		0.65	5.00	ug/L
98-95-3	Nitrobenzene	48.4		0.76	5.00	ug/L
78-59-1	Isophorone	51.0		0.75	5.00	ug/L
88-75-5	2-Nitrophenol	54.2		1.80	5.00	ug/L
105-67-9	2,4-Dimethylphenol	48.2		1.90	5.00	ug/L
111-91-1	bis(2-Chloroethoxy)methane	49.1		0.68	5.00	ug/L
120-83-2	2,4-Dichlorophenol	46.7		0.52	5.00	ug/L
65-85-0	Benzoic acid	24.1		4.20	10.0	ug/L
91-20-3	Naphthalene	45.1		0.50	5.00	ug/L
106-47-8	4-Chloroaniline	32.5		0.84	5.00	ug/L
87-68-3	Hexachlorobutadiene	44.7		0.54	5.00	ug/L
105-60-2	Caprolactam	11.9		1.10	10.0	ug/L
59-50-7	4-Chloro-3-methylphenol	45.9		0.59	5.00	ug/L
91-57-6	2-Methylnaphthalene	44.5		0.56	5.00	ug/L
77-47-4	Hexachlorocyclopentadiene	110	E	3.60	10.0	ug/L
88-06-2	2,4,6-Trichlorophenol	51.7		0.51	5.00	ug/L

Raw Data: **BF143840.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01MSD	SDG No.:	Q3177
Lab Sample ID:	Q3179-03MSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143840.D	1	09/29/25 08:42	09/30/25 18:35	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
95-95-4	2,4,5-Trichlorophenol	50.0		0.62	5.00	ug/L
92-52-4	1,1-Biphenyl	50.2		0.53	5.00	ug/L
91-58-7	2-Chloronaphthalene	45.9		0.61	5.00	ug/L
88-74-4	2-Nitroaniline	62.0		1.30	5.00	ug/L
131-11-3	Dimethylphthalate	52.1		0.61	5.00	ug/L
208-96-8	Acenaphthylene	54.5		0.75	5.00	ug/L
606-20-2	2,6-Dinitrotoluene	69.7		0.92	5.00	ug/L
99-09-2	3-Nitroaniline	43.1		1.10	5.00	ug/L
83-32-9	Acenaphthene	52.0		0.55	5.00	ug/L
51-28-5	2,4-Dinitrophenol	110	E	6.00	10.0	ug/L
100-02-7	4-Nitrophenol	38.3		2.40	10.0	ug/L
132-64-9	Dibenzofuran	49.7		0.61	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	61.2		1.20	5.00	ug/L
84-66-2	Diethylphthalate	52.2		0.69	5.00	ug/L
7005-72-3	4-Chlorophenyl-phenylether	51.7		0.68	5.00	ug/L
86-73-7	Fluorene	51.0		0.63	5.00	ug/L
100-01-6	4-Nitroaniline	59.7		1.50	5.00	ug/L
534-52-1	4,6-Dinitro-2-methylphenol	64.7		2.90	10.0	ug/L
86-30-6	n-Nitrosodiphenylamine	49.8		0.58	5.00	ug/L
103-33-3	Azobenzene	51.5		0.81	5.00	ug/L
101-55-3	4-Bromophenyl-phenylether	54.5		0.40	5.00	ug/L
118-74-1	Hexachlorobenzene	56.4		0.52	5.00	ug/L
1912-24-9	Atrazine	55.0		1.00	5.00	ug/L
87-86-5	Pentachlorophenol	120	E	1.60	10.0	ug/L
85-01-8	Phenanthrene	49.0		0.50	5.00	ug/L
120-12-7	Anthracene	49.7		0.61	5.00	ug/L
86-74-8	Carbazole	49.4		0.72	5.00	ug/L
84-74-2	Di-n-butylphthalate	50.2		1.20	5.00	ug/L
206-44-0	Fluoranthene	49.9		0.82	5.00	ug/L
92-87-5	Benzidine	25.5		4.30	10.0	ug/L
129-00-0	Pyrene	60.6		0.50	5.00	ug/L

Raw Data: **BF143840.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01MSD	SDG No.:	Q3177
Lab Sample ID:	Q3179-03MSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143840.D	1	09/29/25 08:42	09/30/25 18:35	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
85-68-7	Butylbenzylphthalate	56.6		1.90	5.00	ug/L
91-94-1	3,3-Dichlorobenzidine	41.5		0.93	10.0	ug/L
56-55-3	Benzo(a)anthracene	50.3		0.45	5.00	ug/L
218-01-9	Chrysene	52.6		0.44	5.00	ug/L
117-81-7	Bis(2-ethylhexyl)phthalate	45.3		1.60	5.00	ug/L
117-84-0	Di-n-octyl phthalate	40.0		2.30	10.0	ug/L
205-99-2	Benzo(b)fluoranthene	51.2		0.49	5.00	ug/L
207-08-9	Benzo(k)fluoranthene	50.8		0.48	5.00	ug/L
50-32-8	Benzo(a)pyrene	54.0		0.55	5.00	ug/L
193-39-5	Indeno(1,2,3-cd)pyrene	54.7		0.59	5.00	ug/L
53-70-3	Dibenzo(a,h)anthracene	54.9		0.67	5.00	ug/L
191-24-2	Benzo(g,h,i)perylene	57.1		0.69	5.00	ug/L
95-94-3	1,2,4,5-Tetrachlorobenzene	50.8		0.52	5.00	ug/L
123-91-1	1,4-Dioxane	19.4		1.00	5.00	ug/L
58-90-2	2,3,4,6-Tetrachlorophenol	63.6		0.72	5.00	ug/L
90-12-0	1-Methylnaphthalene	47.7		0.66	5.00	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	61.6		23 - 138	41%	SPK: 150
13127-88-3	Phenol-d6	41.8		10 - 134	28%	SPK: 150
4165-60-0	Nitrobenzene-d5	94.9		67 - 132	95%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.9		52 - 132	87%	SPK: 100
118-79-6	2,4,6-Tribromophenol	130		44 - 137	87%	SPK: 150
1718-51-0	Terphenyl-d14	112		42 - 152	112%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	143000	6.886			
1146-65-2	Naphthalene-d8	545000	8.169			
15067-26-2	Acenaphthene-d10	296000	9.927			
1517-22-2	Phenanthrene-d10	496000	11.416			
1719-03-5	Chrysene-d12	428000	14.057			
1520-96-3	Perylene-d12	609000	15.533			

Raw Data: **BF143840.D**

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

Report of Analysis

Client:	Weston Solutions, Inc.	Date Collected:	09/23/25
Project:	RFP 916	Date Received:	09/23/25
Client Sample ID:	EME-TS14-01MSD	SDG No.:	Q3177
Lab Sample ID:	Q3179-03MSD	Matrix:	Water
Analytical Method:	8270E	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	SPLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :			

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF143840.D	1	09/29/25 08:42	09/30/25 18:35	PB169880

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units

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

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

Sample Results: **BF143840.D**

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143840.D
Acq On : 30 Sep 2025 18:35
Operator : RC/JU
Sample : Q3179-03MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Quant Time: Sep 30 18:56:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
Internal Standards							
1) 1,4-Dichlorobenzene-d4	6.886	152	143255	20.000	ng		0.00
21) Naphthalene-d8	8.169	136	544706	20.000	ng		0.00
39) Acenaphthene-d10	9.927	164	295782	20.000	ng		0.00
64) Phenanthrene-d10	11.416	188	495559	20.000	ng		0.00
76) Chrysene-d12	14.057	240	427552	20.000	ng		0.00
86) Perylene-d12	15.533	264	608800	20.000	ng		0.00
System Monitoring Compounds							
5) 2-Fluorophenol	5.498	112	542961	61.579	ng		0.00
7) Phenol-d6	6.498	99	426251	41.839	ng		-0.01
23) Nitrobenzene-d5	7.445	82	844589	94.911	ng		0.00
42) 2,4,6-Tribromophenol	10.716	330	570185	130.193	ng		0.00
45) 2-Fluorobiphenyl	9.245	172	1646395	86.861	ng		0.00
79) Terphenyl-d14	12.998	244	2364696	112.482	ng		0.00
Target Compounds							Qvalue
2) 1,4-Dioxane	2.675	88	81739	19.368	ng		96
3) Pyridine	3.440	79	218305	19.163	ng		92
4) n-Nitrosodimethylamine	3.375	42	107636	18.843	ng	#	77
6) Aniline	6.545	93	401567	27.158	ng		98
8) 2-Chlorophenol	6.669	128	353008	39.107	ng		98
9) Benzaldehyde	6.434	77	270982	30.374	ng		98
10) Phenol	6.516	94	207399	17.514	ng		97
11) bis(2-Chloroethyl)ether	6.616	93	423717	45.647	ng		100
12) 1,3-Dichlorobenzene	6.828	146	430642	41.090	ng		98
13) 1,4-Dichlorobenzene	6.904	146	438176	41.894	ng		99
14) 1,2-Dichlorobenzene	7.057	146	428144	43.221	ng		99
15) Benzyl Alcohol	7.022	79	276505	37.562	ng		98
16) 2,2'-oxybis(1-Chloropr...	7.157	45	870646	39.555	ng		96
17) 2-Methylphenol	7.134	107	242668	34.724	ng		98
18) Hexachloroethane	7.398	117	146089	39.717	ng		96
19) n-Nitroso-di-n-propyla...	7.298	70	324788	49.576	ng		89
20) 3+4-Methylphenols	7.281	107	264001	31.021	ng	#	81
22) Acetophenone	7.292	105	636130	53.171	ng		93
24) Nitrobenzene	7.469	77	477795	48.440	ng		96
25) Isophorone	7.704	82	883911	50.973	ng		99
26) 2-Nitrophenol	7.781	139	220979	54.198	ng		95
27) 2,4-Dimethylphenol	7.816	122	373310	48.165	ng		99
28) bis(2-Chloroethoxy)met...	7.916	93	552615	49.051	ng		99
29) 2,4-Dichlorophenol	8.022	162	356046	46.686	ng		100
30) 1,2,4-Trichlorobenzene	8.110	180	376995	47.633	ng		99
31) Naphthalene	8.192	128	1176459	45.117	ng		100
32) Benzoic acid	7.892	122	90049	24.080	ng		95
33) 4-Chloroaniline	8.233	127	297985	32.519	ng		99
34) Hexachlorobutadiene	8.310	225	263834	44.717	ng		100
35) Caprolactam	8.598	113	23237	11.921	ng	#	85
36) 4-Chloro-3-methylphenol	8.710	107	328214	45.887	ng		99
37) 2-Methylnaphthalene	8.880	142	740720	44.549	ng		98
38) 1-Methylnaphthalene	8.980	142	758935	47.687	ng		99
40) 1,2,4,5-Tetrachloroben...	9.051	216	453169	50.768	ng		99
41) Hexachlorocyclopentadiene	9.033	237	639570	113.055	ng		99
43) 2,4,6-Trichlorophenol	9.157	196	288748	51.661	ng		99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143840.D
Acq On : 30 Sep 2025 18:35
Operator : RC/JU
Sample : Q3179-03MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Quant Time: Sep 30 18:56:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration

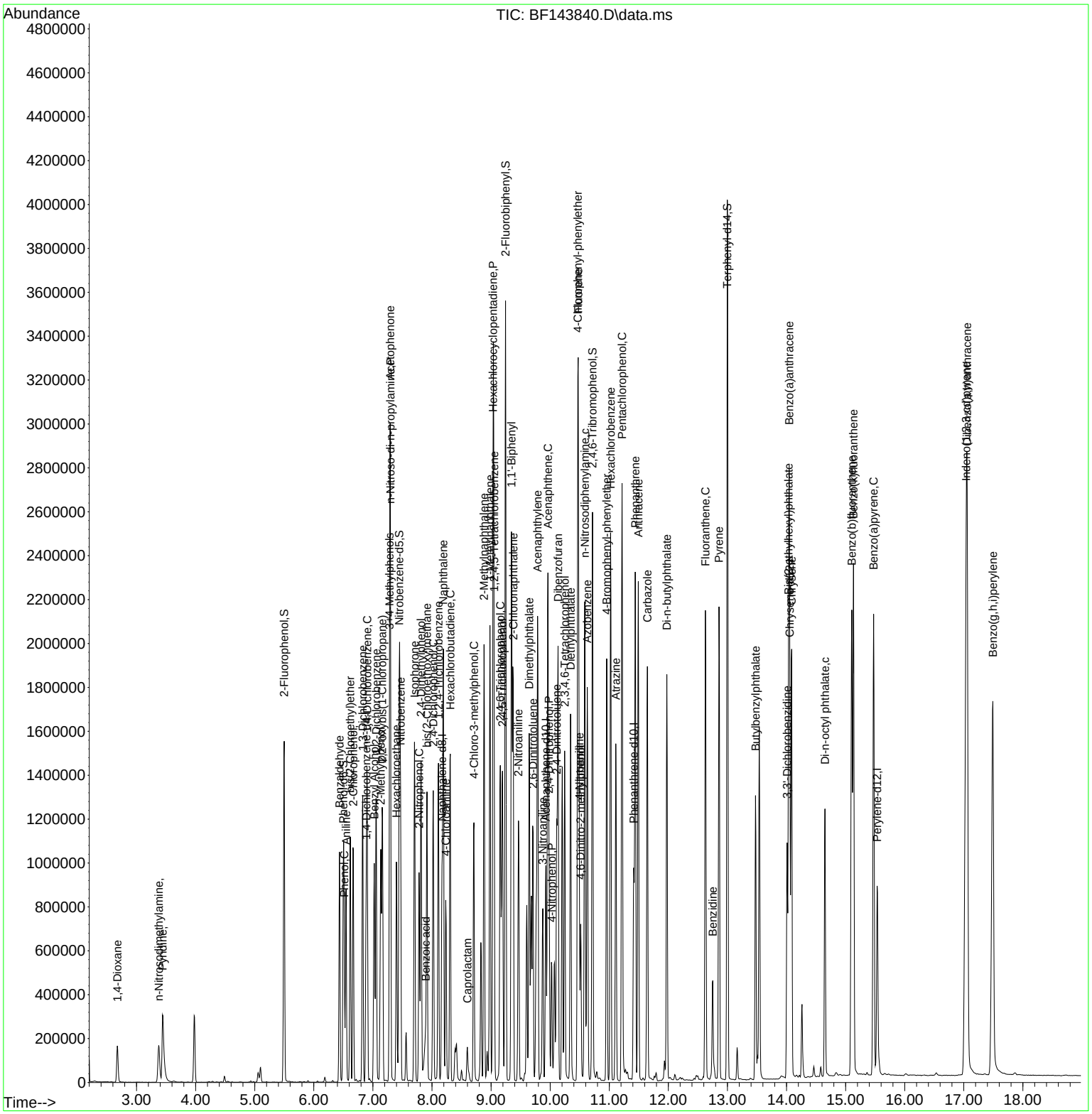
Compound	R.T.	QIon	Response	Conc	Units		Dev(Min)
44) 2,4,5-Trichlorophenol	9.192	196	292296	49.997	ng		99
46) 1,1'-Biphenyl	9.345	154	1073808	50.153	ng		99
47) 2-Chloronaphthalene	9.375	162	790250	45.852	ng		99
48) 2-Nitroaniline	9.463	65	322921	61.993	ng		99
49) Acenaphthylene	9.786	152	1293376	54.513	ng		99
50) Dimethylphthalate	9.645	163	939267	52.101	ng		99
51) 2,6-Dinitrotoluene	9.710	165	206353	69.667	ng		90
52) Acenaphthene	9.963	154	812486	52.038	ng		99
53) 3-Nitroaniline	9.875	138	154670	43.080	ng		98
54) 2,4-Dinitrophenol	9.980	184	177900	112.202	ng	#	22
55) Dibenzofuran	10.133	168	1096972	49.685	ng		99
56) 4-Nitrophenol	10.027	139	110855	38.316	ng		91
57) 2,4-Dinitrotoluene	10.110	165	272876	61.212	ng		95
58) Fluorene	10.475	166	836993	50.994	ng		98
59) 2,3,4,6-Tetrachlorophenol	10.245	232	318686	63.631	ng		94
60) Diethylphthalate	10.345	149	881630	52.242	ng		99
61) 4-Chlorophenyl-phenyle...	10.469	204	432597	51.726	ng		94
62) 4-Nitroaniline	10.492	138	201378	59.653	ng		96
63) Azobenzene	10.627	77	916316	51.521	ng		96
65) 4,6-Dinitro-2-methylph...	10.516	198	128926	64.652	ng		85
66) n-Nitrosodiphenylamine	10.586	169	811250	49.778	ng		100
67) 4-Bromophenyl-phenylether	10.957	248	460521	54.531	ng		97
68) Hexachlorobenzene	11.022	284	656128	56.377	ng		98
69) Atrazine	11.110	200	259448	54.975	ng		98
70) Pentachlorophenol	11.216	266	679436	117.281	ng		100
71) Phenanthrene	11.439	178	1247011	49.014	ng		100
72) Anthracene	11.492	178	1267883	49.682	ng		99
73) Carbazole	11.645	167	1102440	49.408	ng		99
74) Di-n-butylphthalate	11.974	149	1287218	50.161	ng		100
75) Fluoranthene	12.627	202	1276355	49.879	ng		99
77) Benzidine	12.751	184	265152	25.450	ng		99
78) Pyrene	12.857	202	1273365	60.578	ng		99
80) Butylbenzylphthalate	13.474	149	411811	56.626	ng		97
81) Benzo(a)anthracene	14.045	228	1154327	50.256	ng		99
82) 3,3'-Dichlorobenzidine	14.010	252	412972	41.502	ng		98
83) Chrysene	14.086	228	1092366	52.559	ng		99
84) Bis(2-ethylhexyl)phtha...	14.033	149	482590	45.272	ng		99
85) Di-n-octyl phthalate	14.651	149	773621	40.009	ng		94
87) Indeno(1,2,3-cd)pyrene	17.039	276	2528473	54.738	ng		98
88) Benzo(b)fluoranthene	15.104	252	1587051	51.190	ng		100
89) Benzo(k)fluoranthene	15.133	252	1582239	50.798	ng		99
90) Benzo(a)pyrene	15.474	252	1574313	54.021	ng		100
91) Dibenzo(a,h)anthracene	17.056	278	2073724	54.888	ng		99
92) Benzo(g,h,i)perylene	17.492	276	2077796	57.051	ng		98

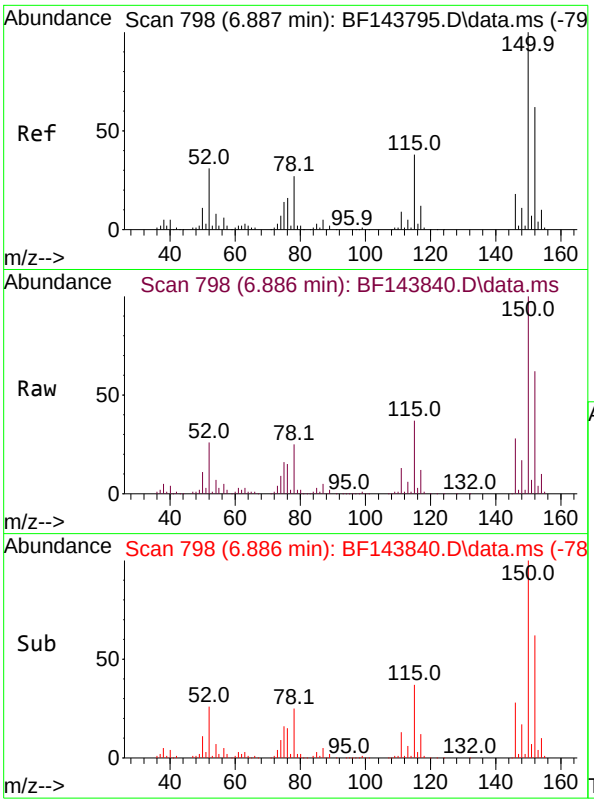
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF093025\
Data File : BF143840.D
Acq On : 30 Sep 2025 18:35
Operator : RC/JU
Sample : Q3179-03MSD
Misc :
ALS Vial : 12 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Quant Time: Sep 30 18:56:34 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF092325.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Sep 24 05:00:00 2025
Response via : Initial Calibration



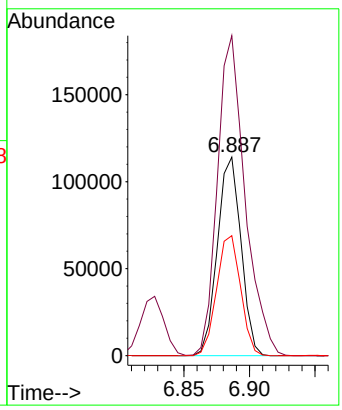


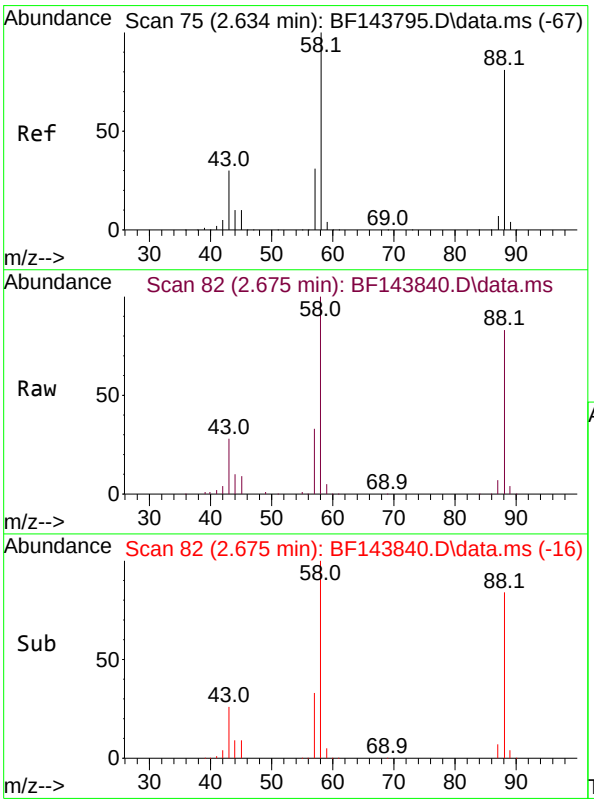
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.886 min Scan# 79
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:152 Resp: 143255

Ion	Ratio	Lower	Upper
152	100		
150	161.2	129.6	194.4
115	60.4	49.0	73.4

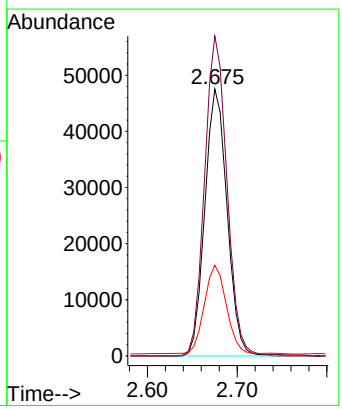


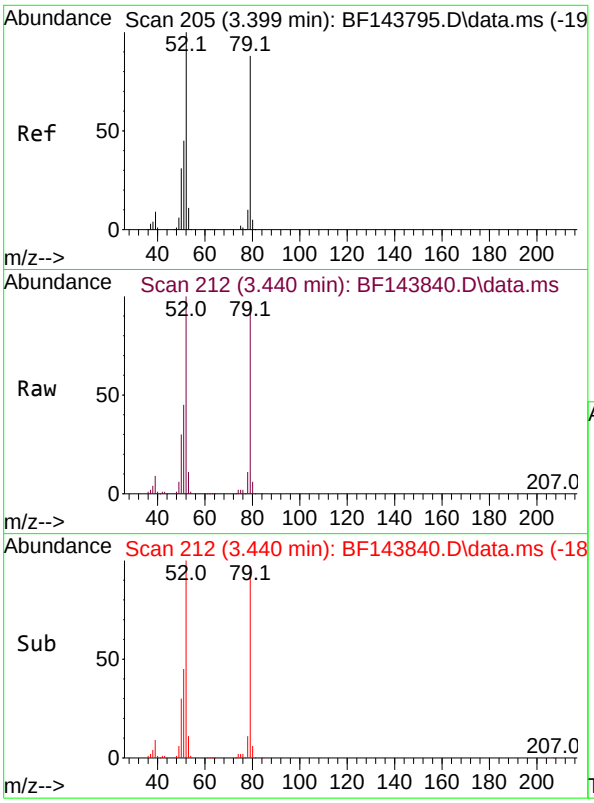


#2
1,4-Dioxane
Concen: 19.368 ng
RT: 2.675 min Scan# 82
Delta R.T. 0.041 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion: 88 Resp: 81739

Ion	Ratio	Lower	Upper
88	100		
58	121.0	99.4	149.2
43	33.2	30.6	45.8



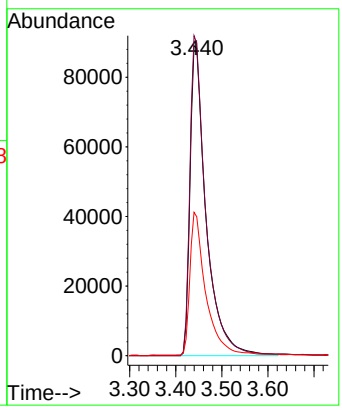


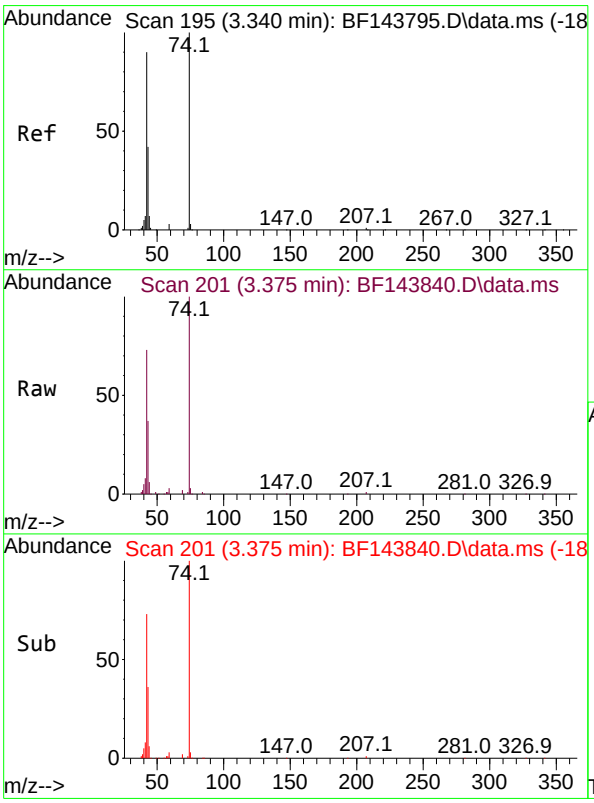
#3
Pyridine
Concen: 19.163 ng
RT: 3.440 min Scan# 21
Delta R.T. 0.041 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion: 79 Resp: 218305

Ion	Ratio	Lower	Upper
79	100		
52	103.3	90.5	135.7
51	46.2	40.6	61.0

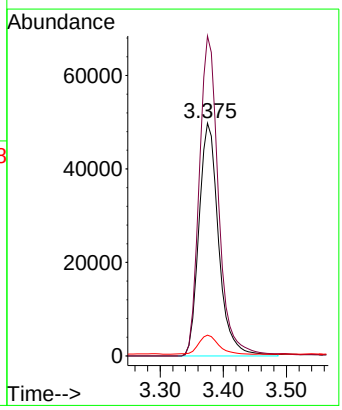


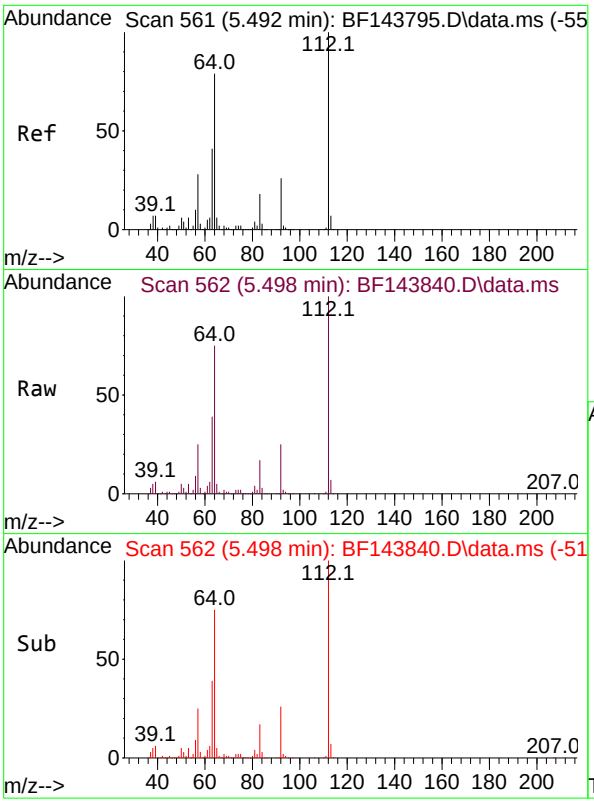


#4
n-Nitrosodimethylamine
Concen: 18.843 ng
RT: 3.375 min Scan# 201
Delta R.T. 0.018 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion: 42 Resp: 107636

Ion	Ratio	Lower	Upper
42	100		
74	137.5	89.1	133.7#
44	8.9	6.4	9.6



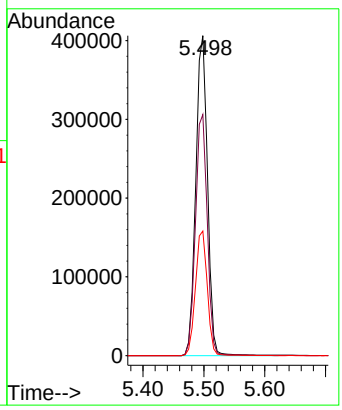


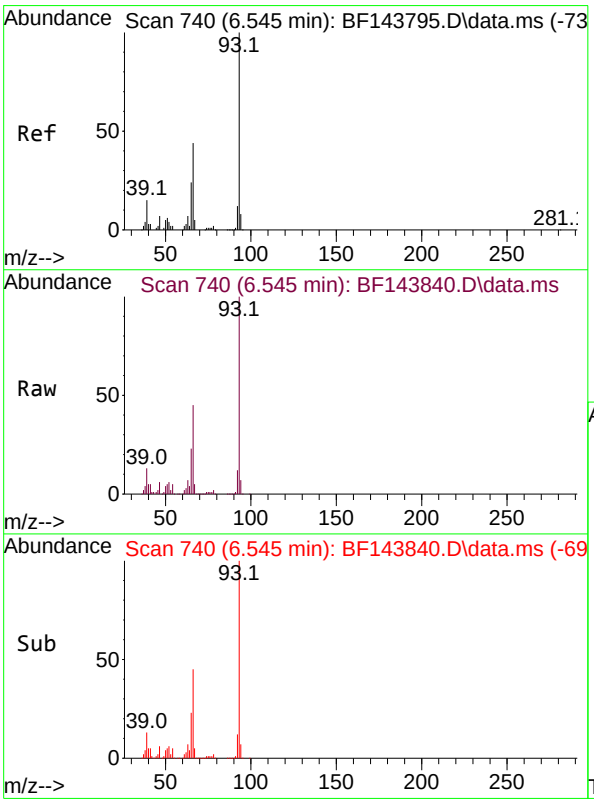
#5
2-Fluorophenol
Concen: 61.579 ng
RT: 5.498 min Scan# 5
Delta R.T. 0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:112 Resp: 542961

Ion	Ratio	Lower	Upper
112	100		
64	75.3	63.0	94.4
63	38.9	32.6	49.0

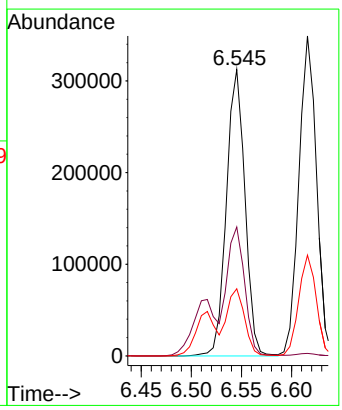


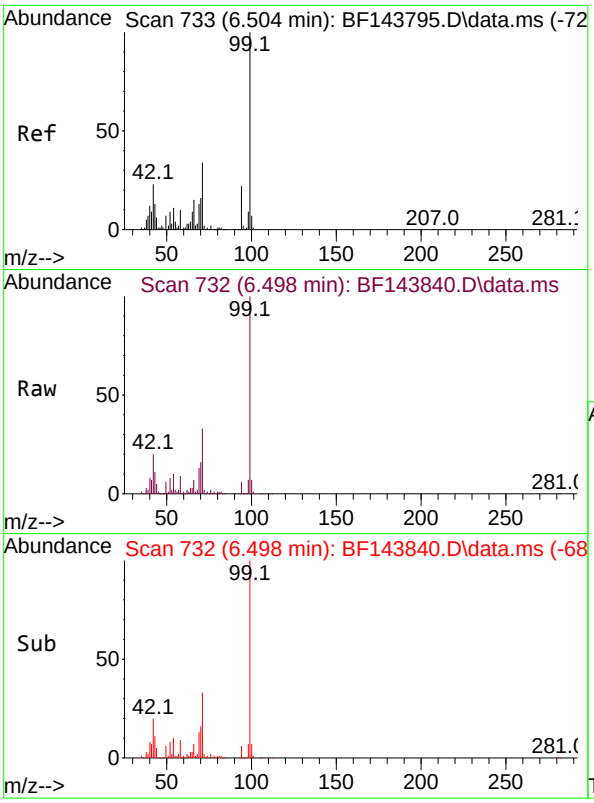


#6
Aniline
Concen: 27.158 ng
RT: 6.545 min Scan# 740
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion: 93 Resp: 401567

Ion	Ratio	Lower	Upper
93	100		
66	45.0	37.1	55.7
65	23.5	19.4	29.0



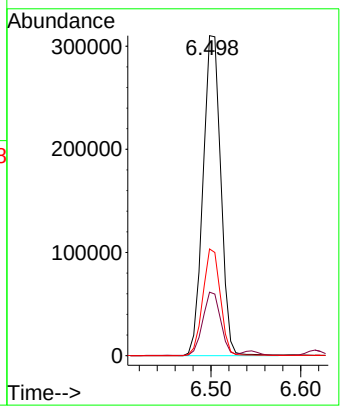


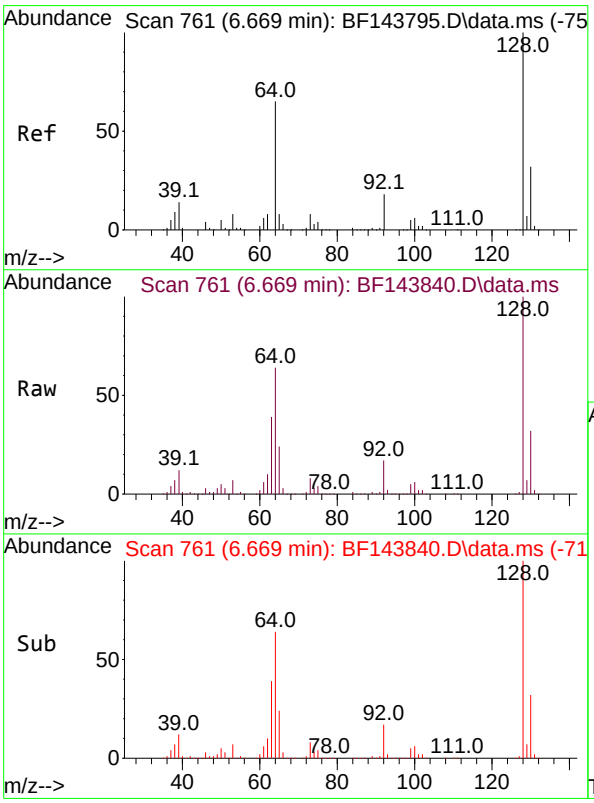
#7
Phenol-d6
Concen: 41.839 ng
RT: 6.498 min Scan# 7
Delta R.T. -0.012 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion: 99 Resp: 426251

Ion	Ratio	Lower	Upper
99	100		
42	19.8	18.6	28.0
71	33.3	27.0	40.4

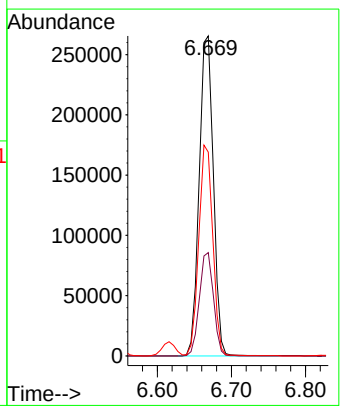


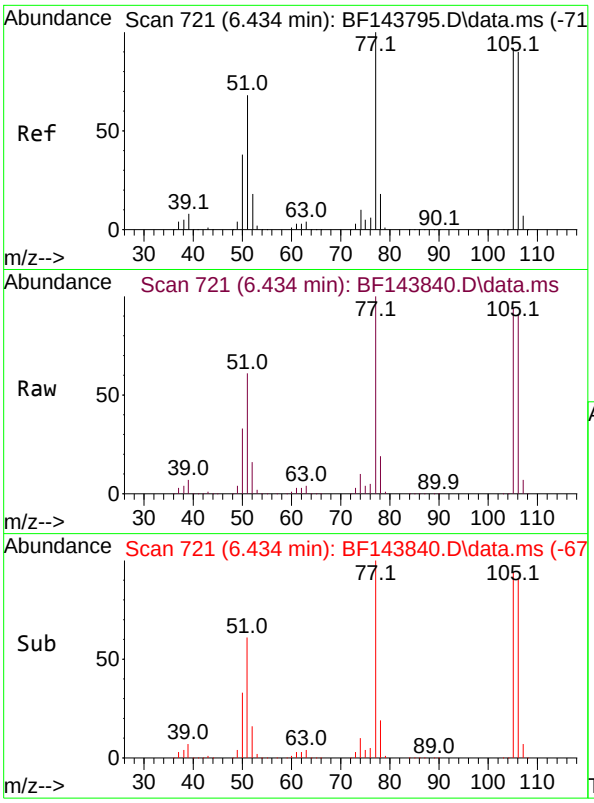


#8
2-Chlorophenol
Concen: 39.107 ng
RT: 6.669 min Scan# 761
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:128 Resp: 353008

Ion	Ratio	Lower	Upper
128	100		
130	32.3	12.2	52.2
64	63.7	46.5	86.5



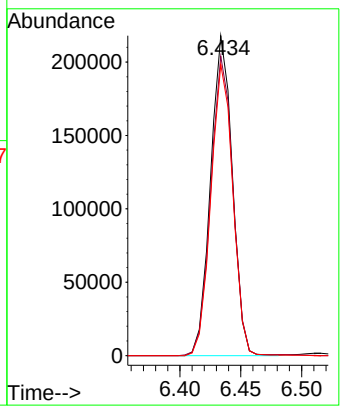


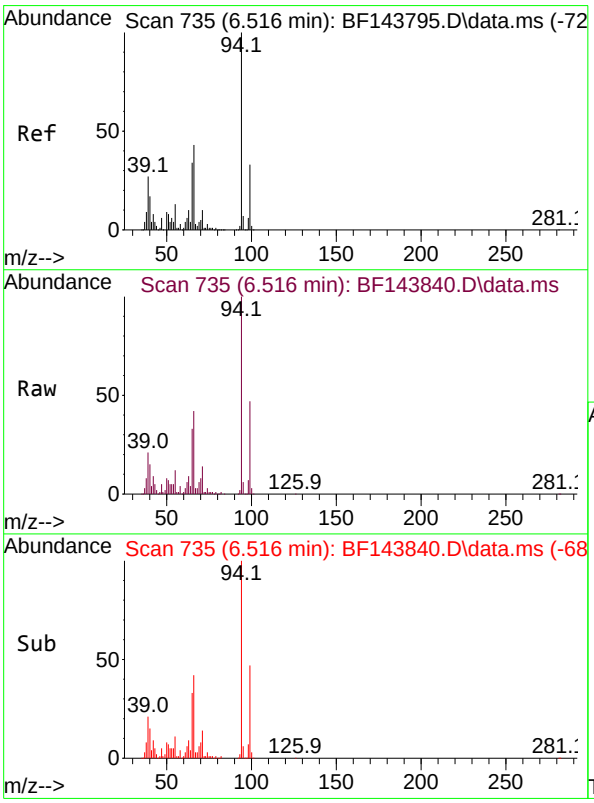
#9
Benzaldehyde
Concen: 30.374 ng
RT: 6.434 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion: 77 Resp: 270982

Ion	Ratio	Lower	Upper
77	100		
105	93.6	71.8	111.8
106	91.0	69.8	109.8

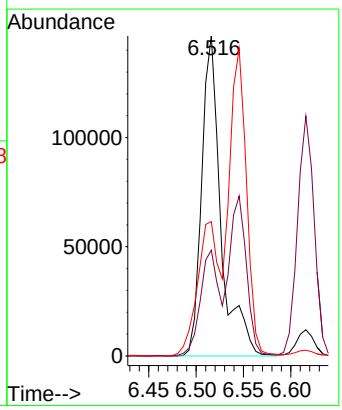


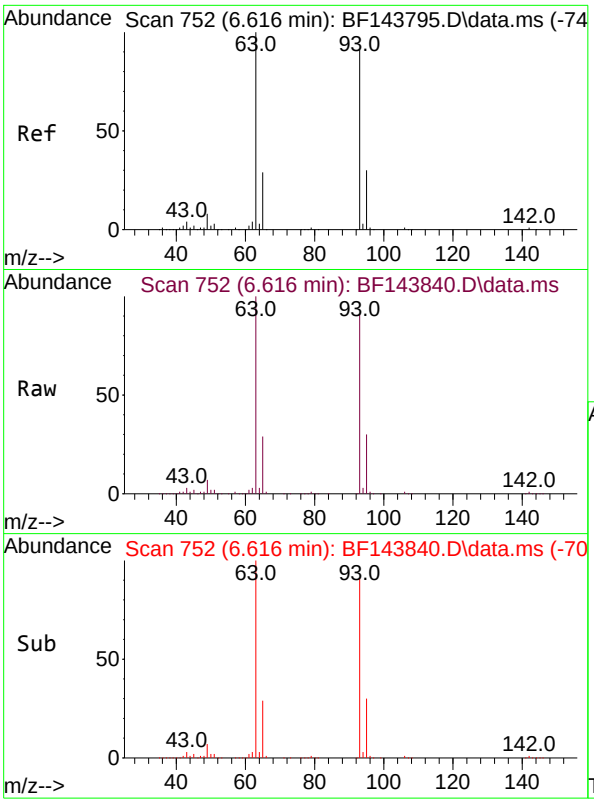


#10
Phenol
Concen: 17.514 ng
RT: 6.516 min Scan# 735
Delta R.T. -0.012 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion: 94 Resp: 207399

Ion	Ratio	Lower	Upper
94	100		
65	33.1	14.2	54.2
66	42.0	24.1	64.1



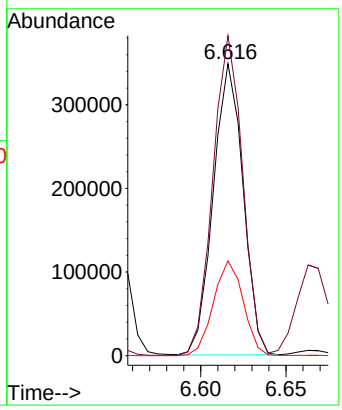


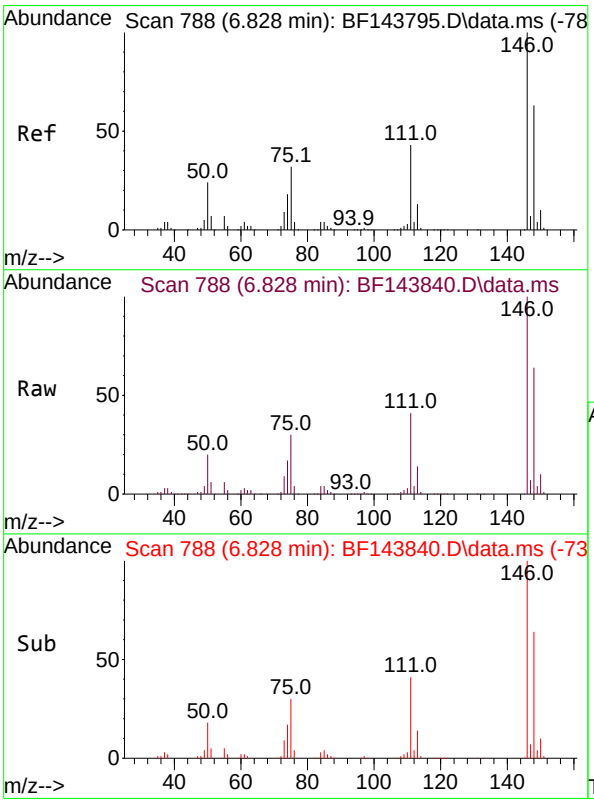
#11
bis(2-Chloroethyl)ether
Concen: 45.647 ng
RT: 6.616 min Scan# 7
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion: 93 Resp: 423717

Ion	Ratio	Lower	Upper
93	100		
63	109.6	89.2	129.2
95	32.5	12.9	52.9

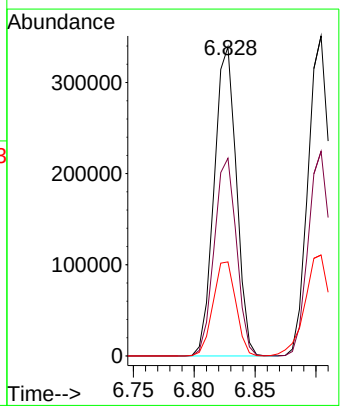


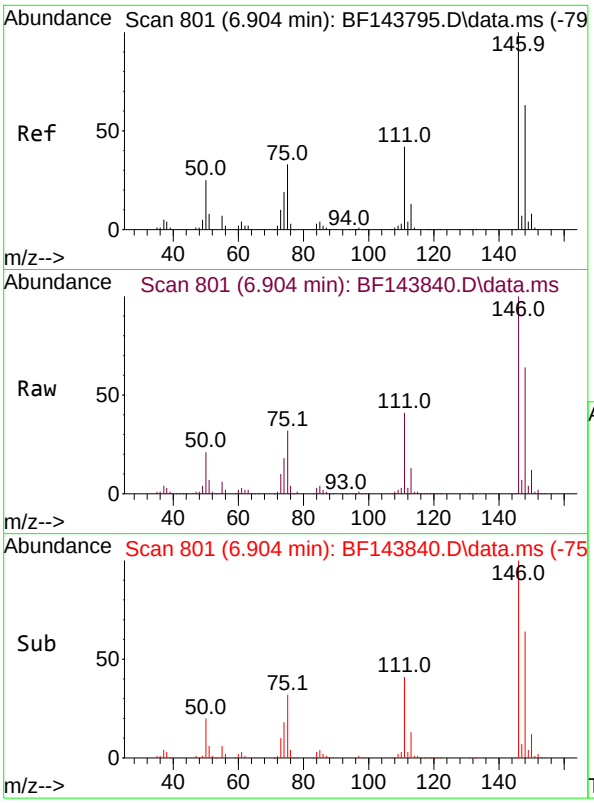


#12
1,3-Dichlorobenzene
Concen: 41.090 ng
RT: 6.828 min Scan# 788
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:146 Resp: 430642

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.4	75.6
75	30.4	25.6	38.4



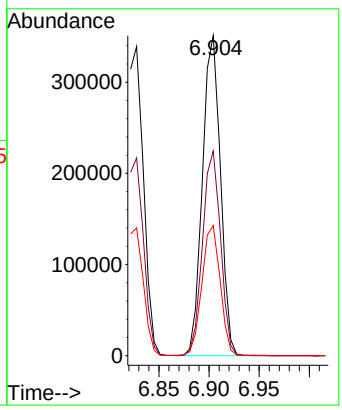


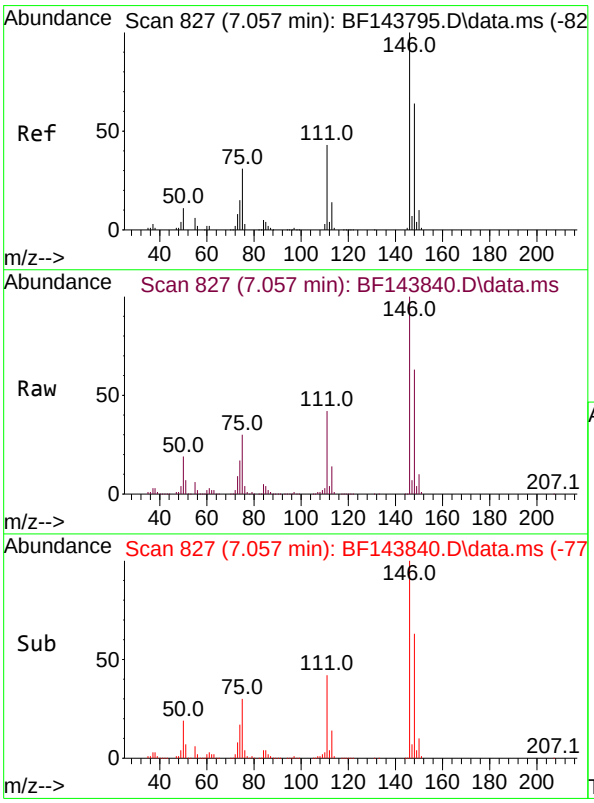
#13
1,4-Dichlorobenzene
Concen: 41.894 ng
RT: 6.904 min Scan# 80
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:146 Resp: 438176

Ion	Ratio	Lower	Upper
146	100		
148	64.0	50.7	76.1
111	40.6	33.4	50.2

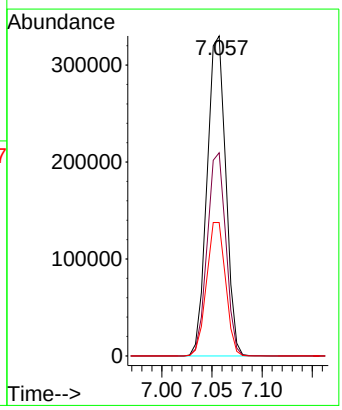


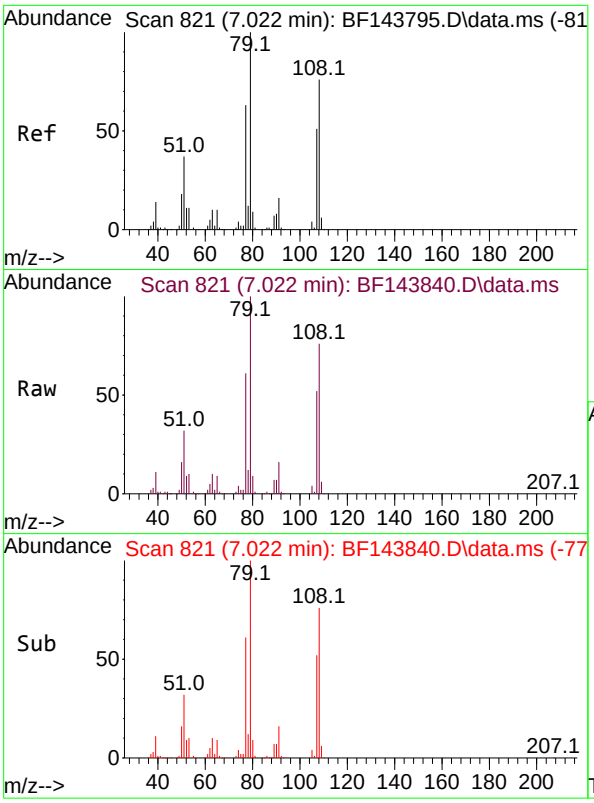


#14
1,2-Dichlorobenzene
Concen: 43.221 ng
RT: 7.057 min Scan# 827
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:146 Resp: 428144

Ion	Ratio	Lower	Upper
146	100		
148	63.5	51.1	76.7
111	41.7	34.3	51.5



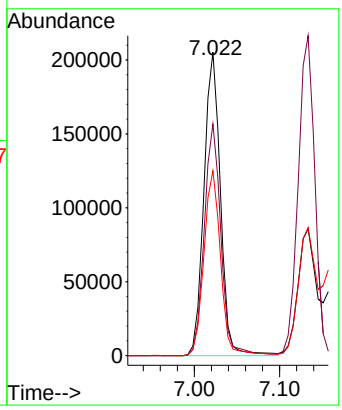


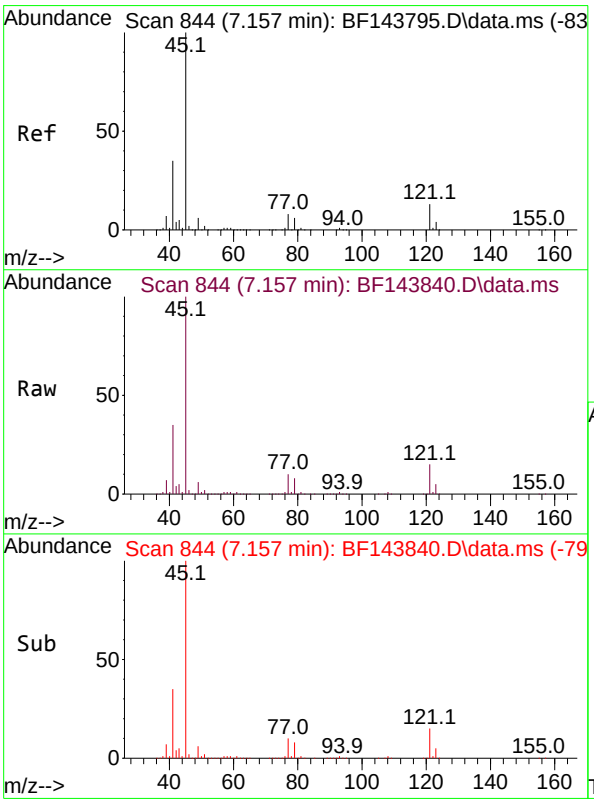
#15
Benzyl Alcohol
Concen: 37.562 ng
RT: 7.022 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion: 79 Resp: 276505

Ion	Ratio	Lower	Upper
79	100		
108	76.4	60.5	90.7
77	60.9	50.3	75.5

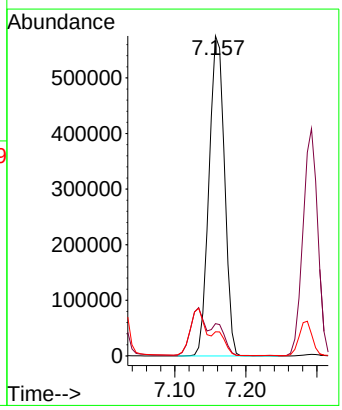


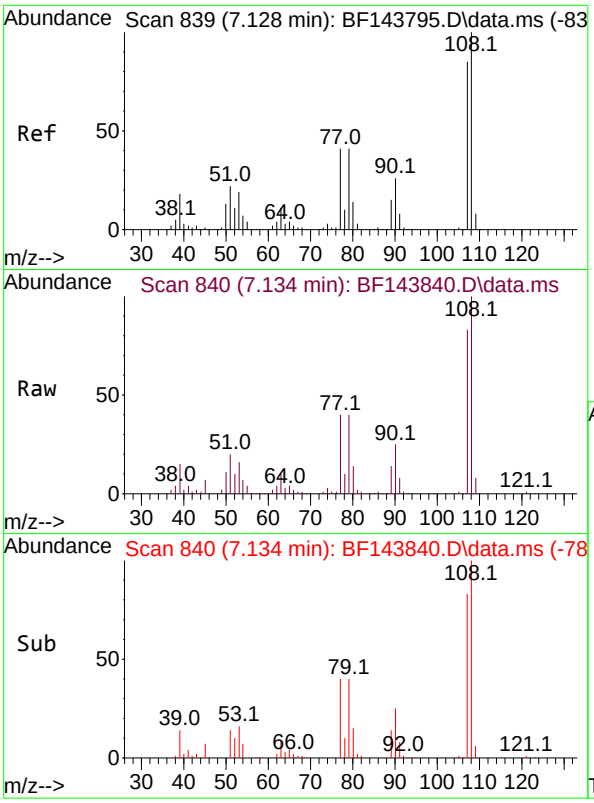


#16
2,2'-oxybis(1-Chloropropane)
Concen: 39.555 ng
RT: 7.157 min Scan# 844
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion: 45 Resp: 870646

Ion	Ratio	Lower	Upper
45	100		
77	10.1	0.0	28.5
79	7.5	0.0	26.3



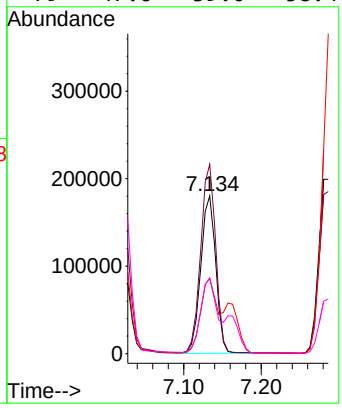


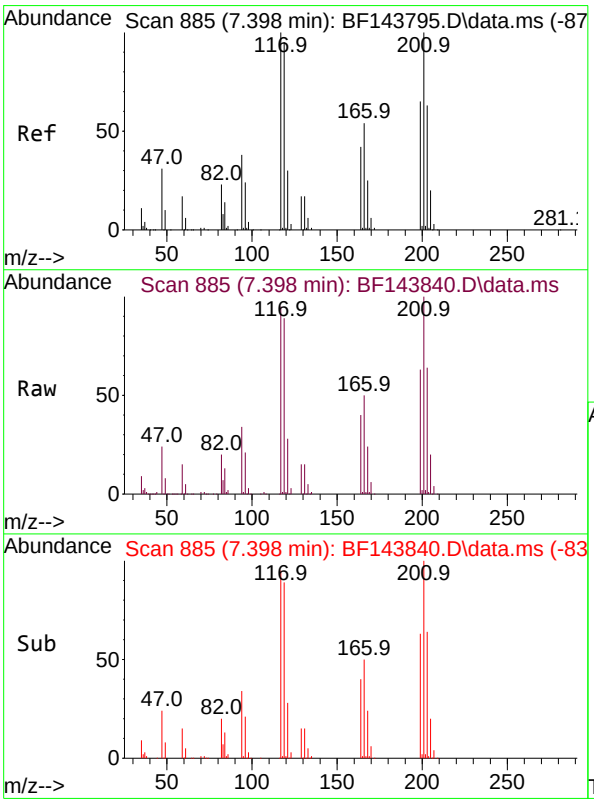
#17
2-Methylphenol
Concen: 34.724 ng
RT: 7.134 min Scan# 84
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:107 Resp: 242668

Ion	Ratio	Lower	Upper
107	100		
108	120.0	94.2	141.4
77	48.1	38.6	58.0
79	47.6	39.0	58.4

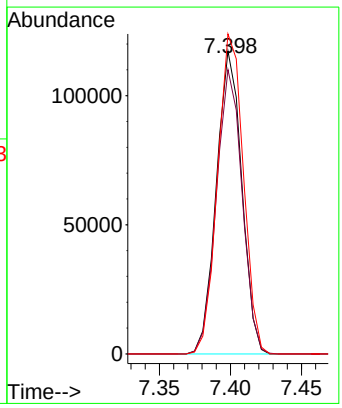


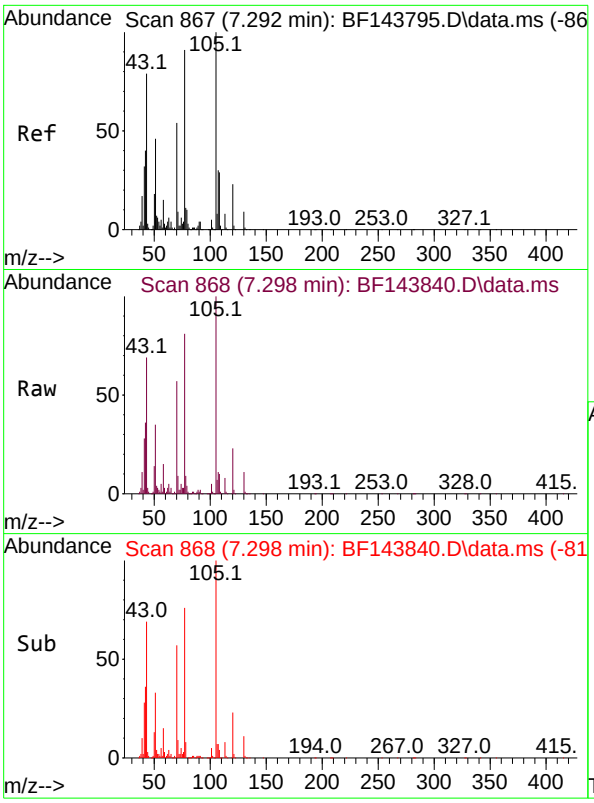


#18
Hexachloroethane
Concen: 39.717 ng
RT: 7.398 min Scan# 885
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:117 Resp: 146089

Ion	Ratio	Lower	Upper
117	100		
119	93.8	76.2	114.2
201	105.6	79.7	119.5



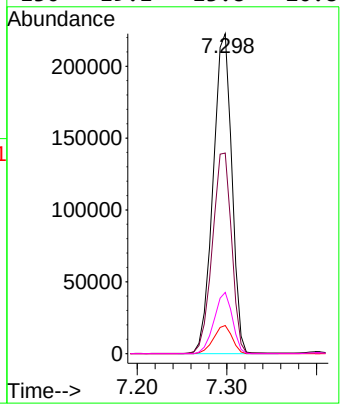


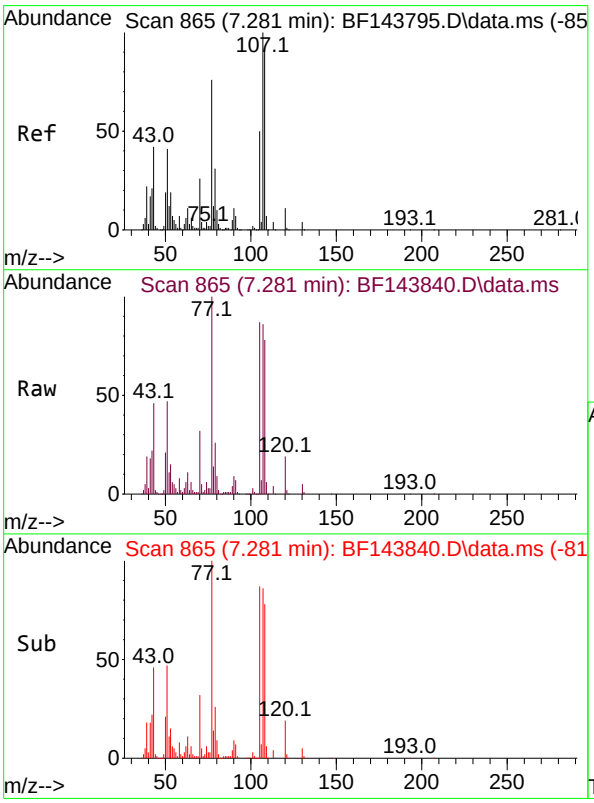
#19
n-Nitroso-di-n-propylamine
Concen: 49.576 ng
RT: 7.298 min Scan# 8
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion: 70 Resp: 324788

Ion	Ratio	Lower	Upper
70	100		
42	62.7	59.4	89.0
101	8.8	7.1	10.7
130	19.1	13.8	20.8

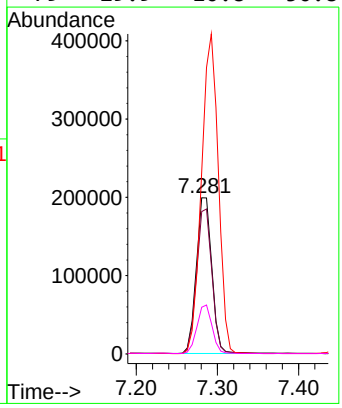


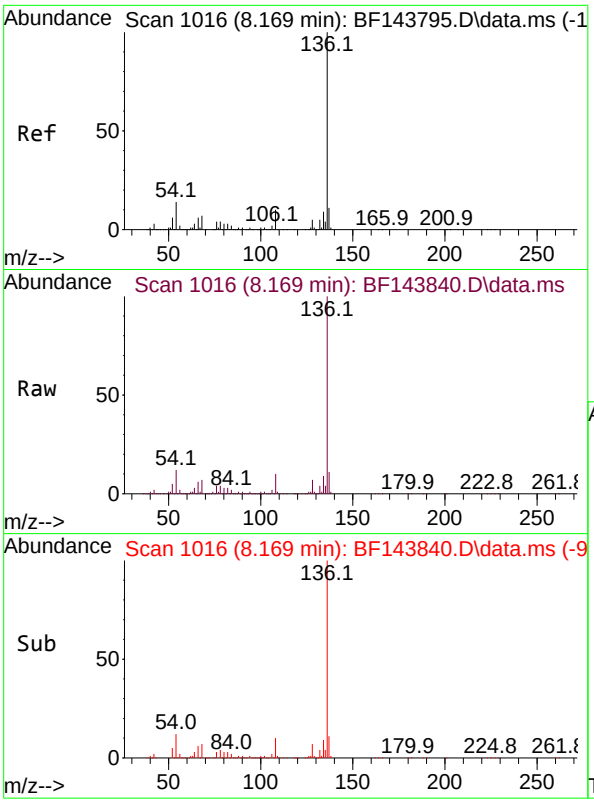


#20
3+4-Methylphenols
Concen: 31.021 ng
RT: 7.281 min Scan# 865
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:107 Resp: 264001

Ion	Ratio	Lower	Upper
107	100		
108	91.2	72.5	112.5
77	116.9	56.2	96.2#
79	29.9	10.8	50.8



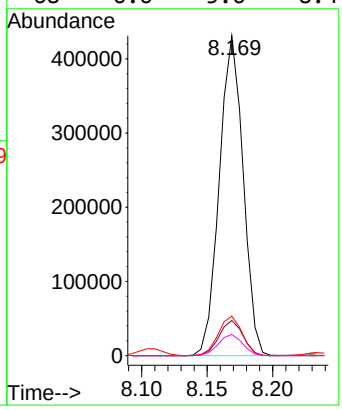


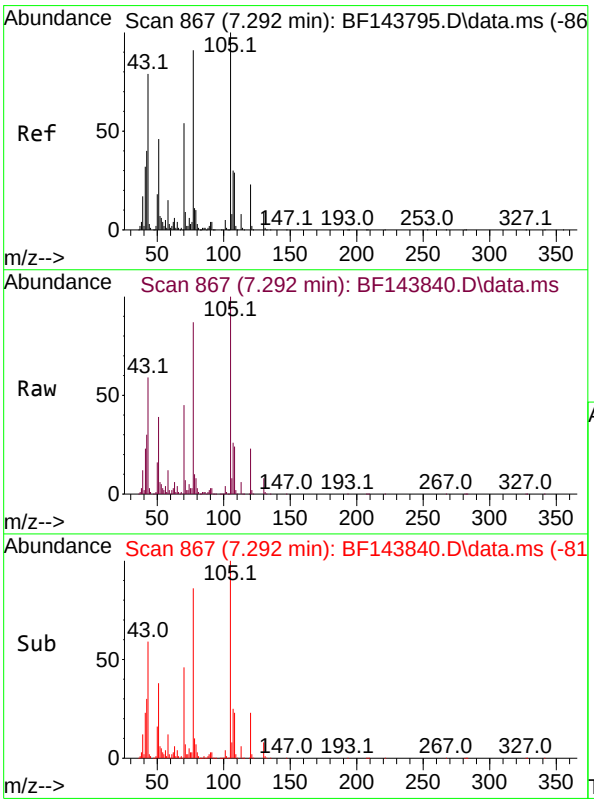
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.169 min Scan# 10
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:136 Resp: 544706

Ion	Ratio	Lower	Upper
136	100		
137	11.0	9.0	13.4
54	12.3	11.2	16.8
68	6.6	5.6	8.4

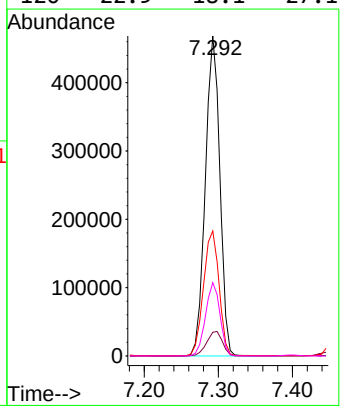


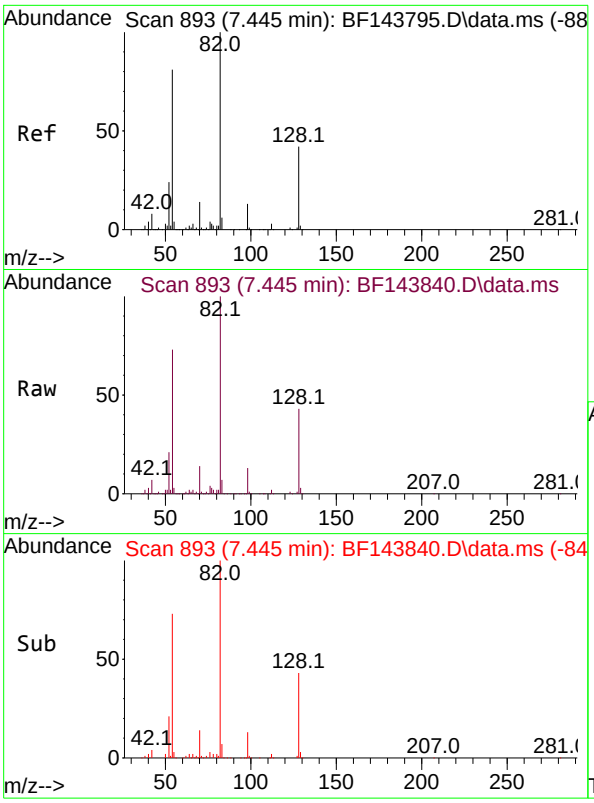


#22
Acetophenone
Concen: 53.171 ng
RT: 7.292 min Scan# 867
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:105 Resp: 636130

Ion	Ratio	Lower	Upper
105	100		
71	7.4	7.0	10.4
51	39.0	36.6	55.0
120	22.9	18.1	27.1



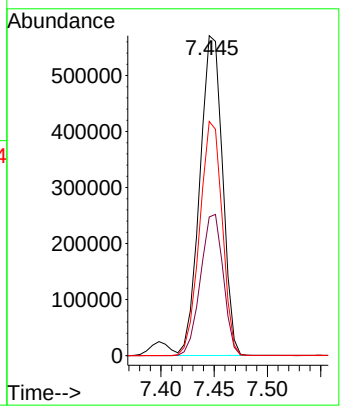


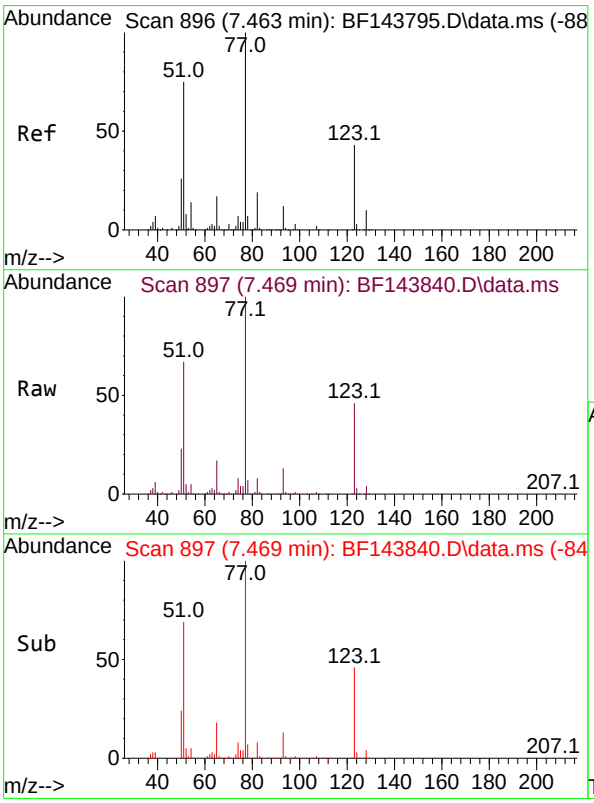
#23
Nitrobenzene-d5
Concen: 94.911 ng
RT: 7.445 min Scan# 89
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion: 82 Resp: 844589

Ion	Ratio	Lower	Upper
82	100		
128	43.3	33.3	49.9
54	73.2	64.2	96.4

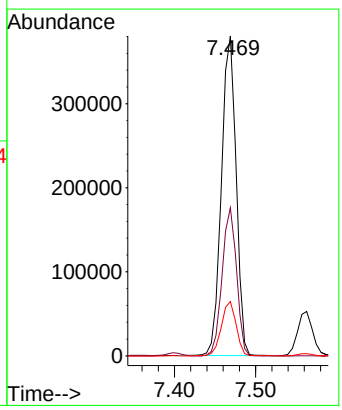


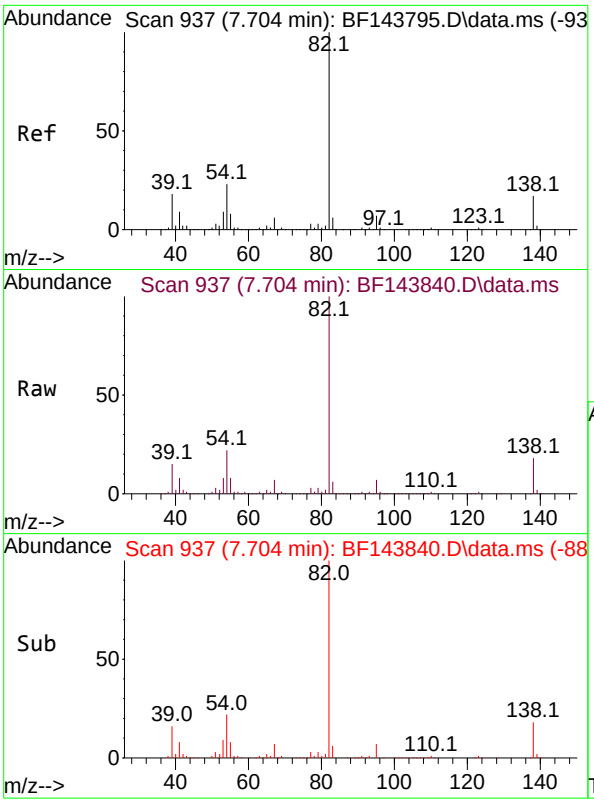


#24
Nitrobenzene
Concen: 48.440 ng
RT: 7.469 min Scan# 897
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion: 77 Resp: 477795

Ion	Ratio	Lower	Upper
77	100		
123	46.3	34.0	51.0
65	17.0	13.5	20.3



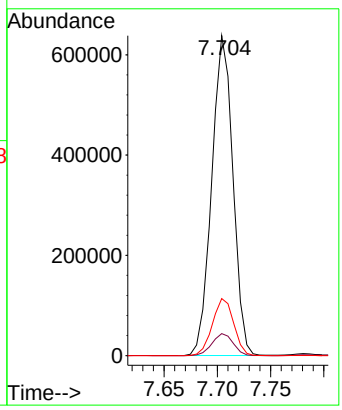


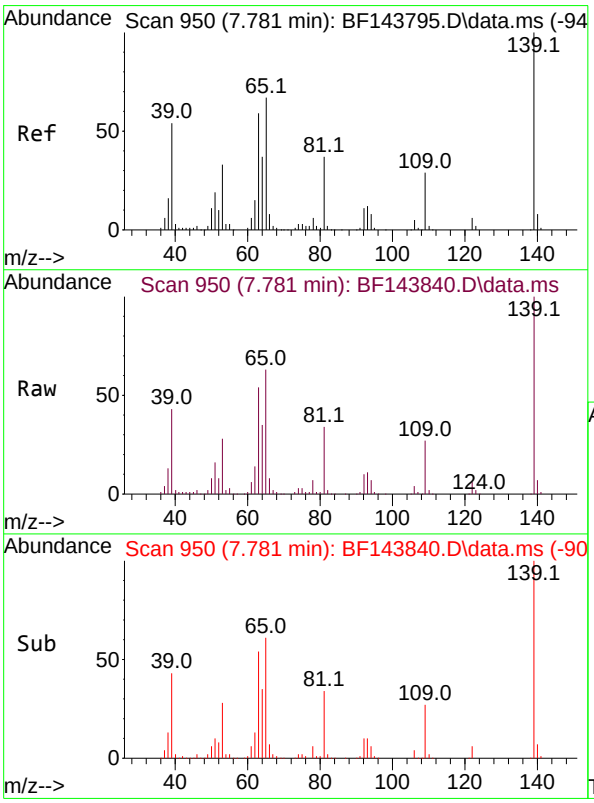
#25
Isophorone
Concen: 50.973 ng
RT: 7.704 min Scan# 9
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion: 82 Resp: 883911

Ion	Ratio	Lower	Upper
82	100		
95	6.9	5.4	8.2
138	17.8	13.7	20.5

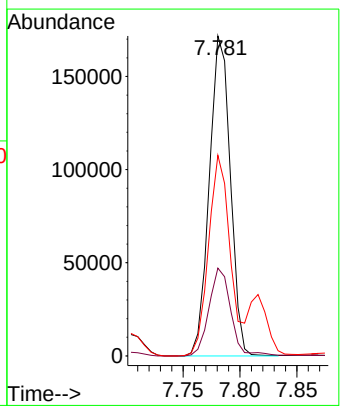


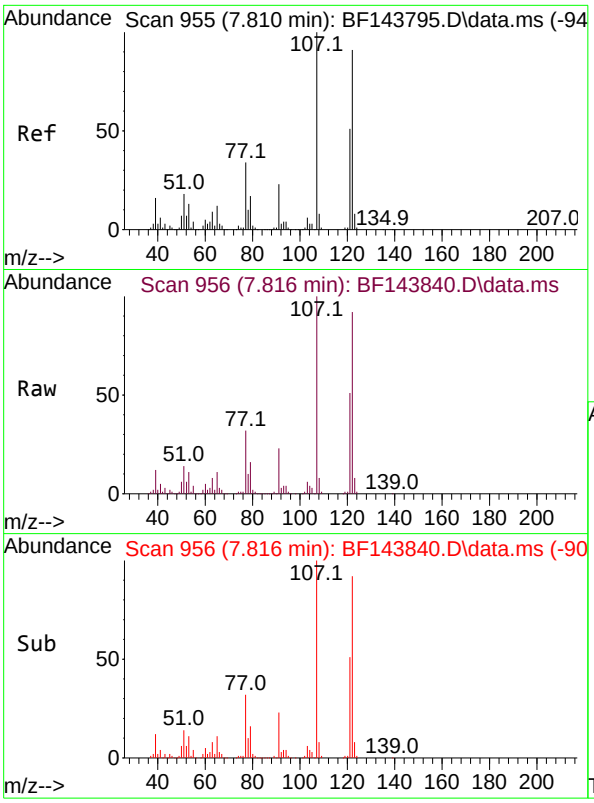


#26
2-Nitrophenol
Concen: 54.198 ng
RT: 7.781 min Scan# 950
Delta R.T. -0.005 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:139 Resp: 220979

Ion	Ratio	Lower	Upper
139	100		
109	27.4	23.3	34.9
65	62.7	53.8	80.6



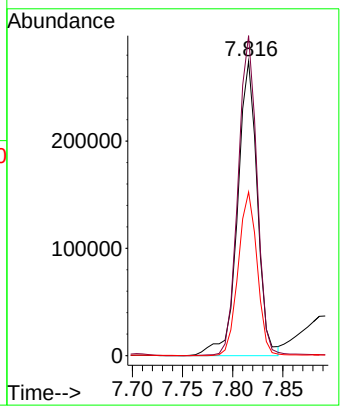


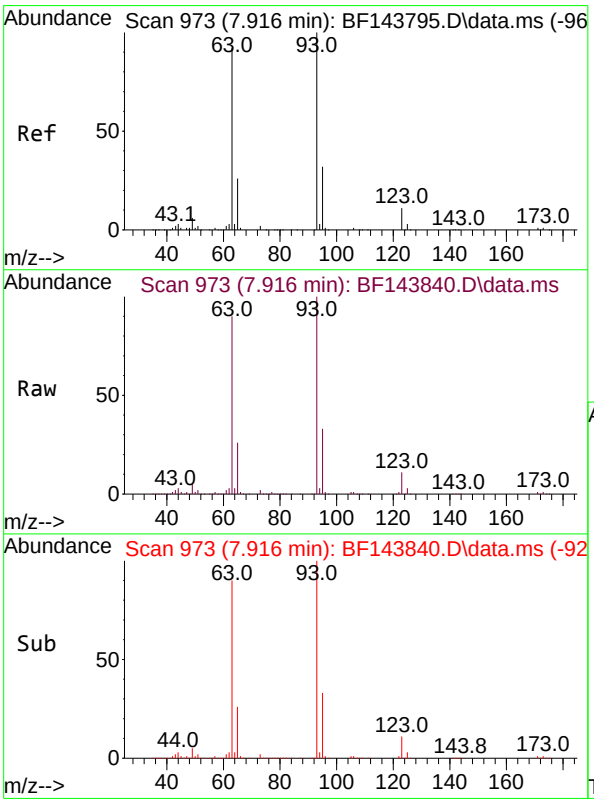
#27
2,4-Dimethylphenol
Concen: 48.165 ng
RT: 7.816 min Scan# 9
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:122 Resp: 373310

Ion	Ratio	Lower	Upper
122	100		
107	108.7	87.5	131.3
121	55.6	44.2	66.4

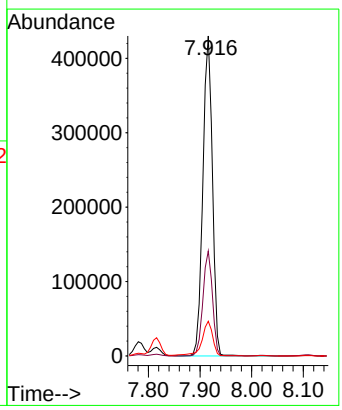


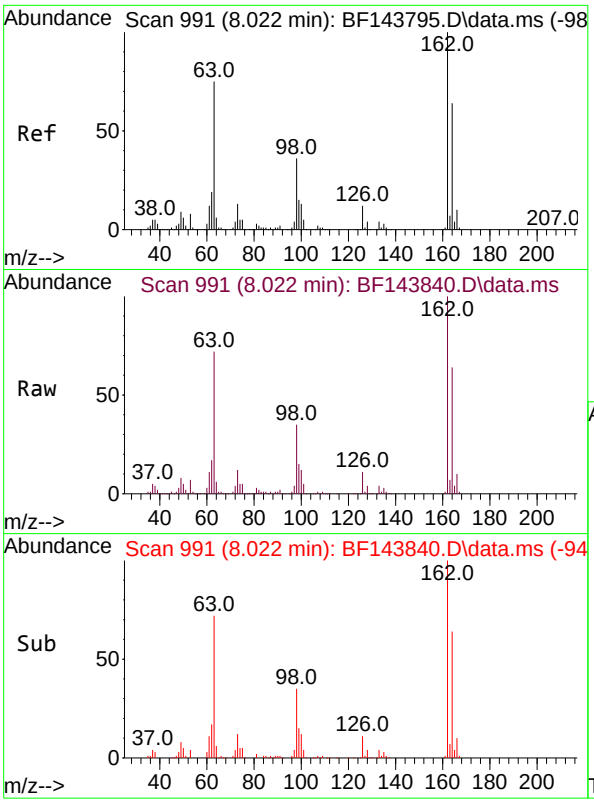


#28
bis(2-Chloroethoxy)methane
Concen: 49.051 ng
RT: 7.916 min Scan# 973
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion: 93 Resp: 552615

Ion	Ratio	Lower	Upper
93	100		
95	32.8	25.8	38.8
123	10.8	8.8	13.2



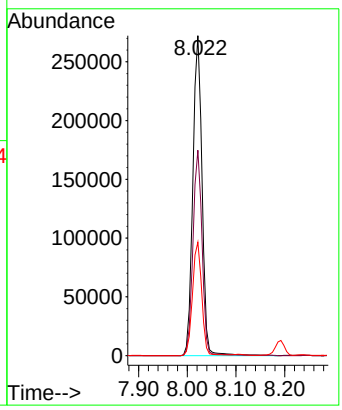


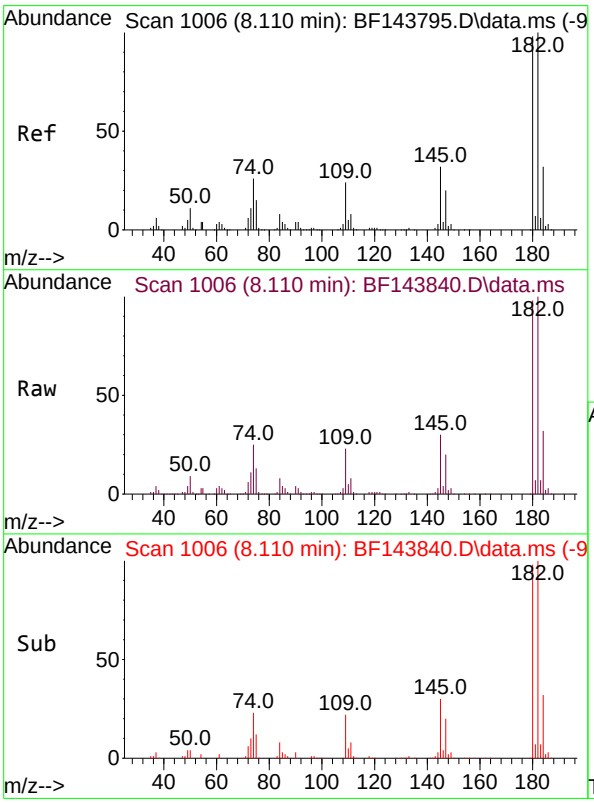
#29
2,4-Dichlorophenol
Concen: 46.686 ng
RT: 8.022 min Scan# 99
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:162 Resp: 356046

Ion	Ratio	Lower	Upper
162	100		
164	64.2	44.1	84.1
98	35.4	15.8	55.8

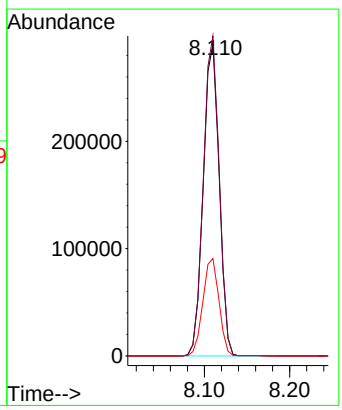


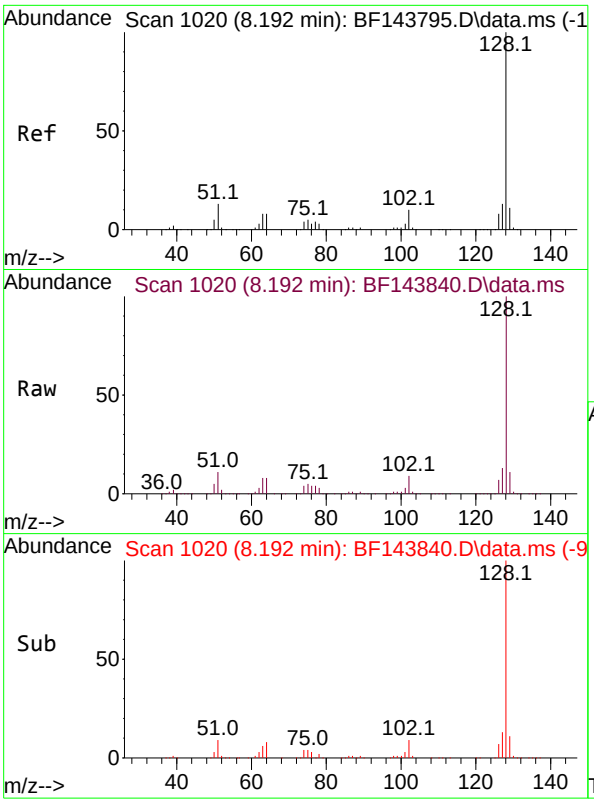


#30
1,2,4-Trichlorobenzene
Concen: 47.633 ng
RT: 8.110 min Scan# 1006
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:180 Resp: 376995

Ion	Ratio	Lower	Upper
180	100		
182	102.6	82.0	123.0
145	31.2	25.9	38.9



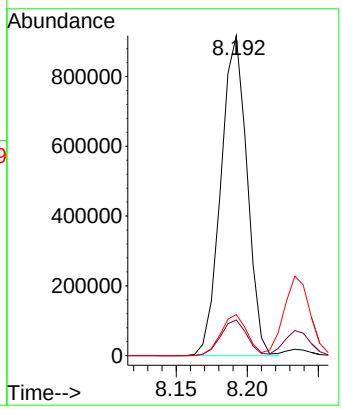


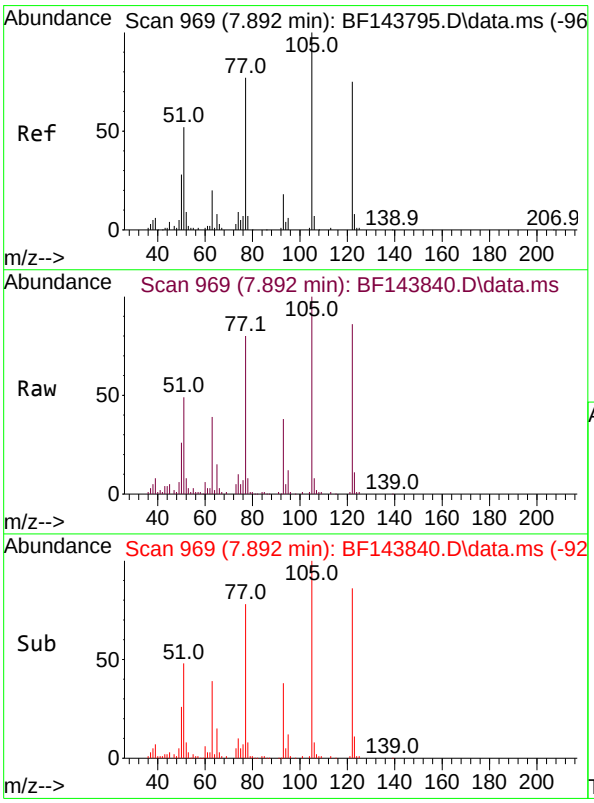
#31
Naphthalene
Concen: 45.117 ng
RT: 8.192 min Scan# 10
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:128 Resp: 1176459

Ion	Ratio	Lower	Upper
128	100		
129	11.1	8.8	13.2
127	12.8	10.2	15.4

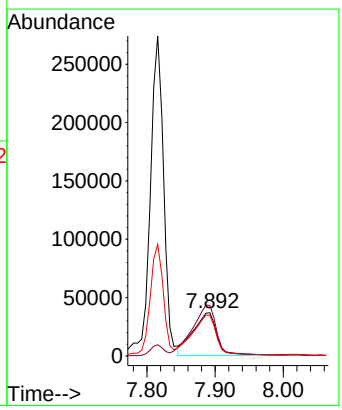


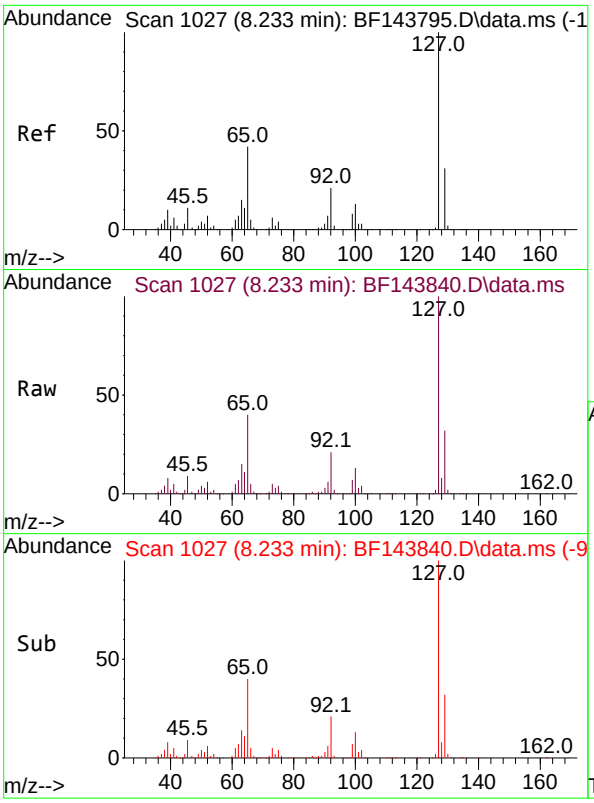


#32
Benzoic acid
Concen: 24.080 ng
RT: 7.892 min Scan# 969
Delta R.T. -0.029 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:122 Resp: 90049

Ion	Ratio	Lower	Upper
122	100		
105	116.9	103.7	143.7
77	93.9	78.8	118.8



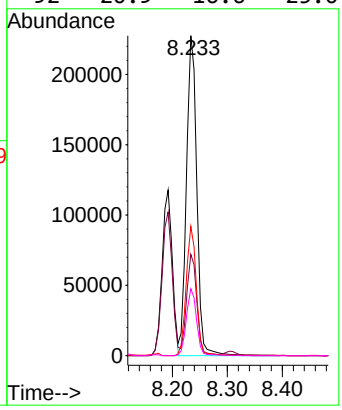


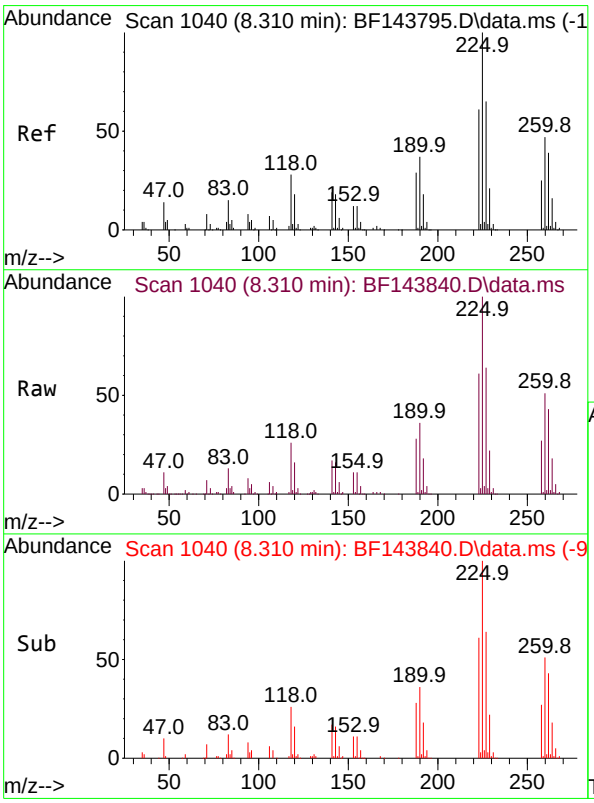
#33
4-Chloroaniline
Concen: 32.519 ng
RT: 8.233 min Scan# 10
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:127 Resp: 297985

Ion	Ratio	Lower	Upper
127	100		
129	31.6	25.4	38.2
65	40.4	33.4	50.2
92	20.9	16.6	25.0

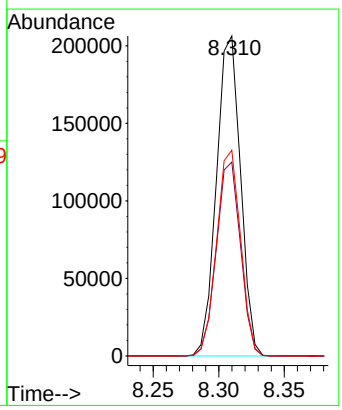


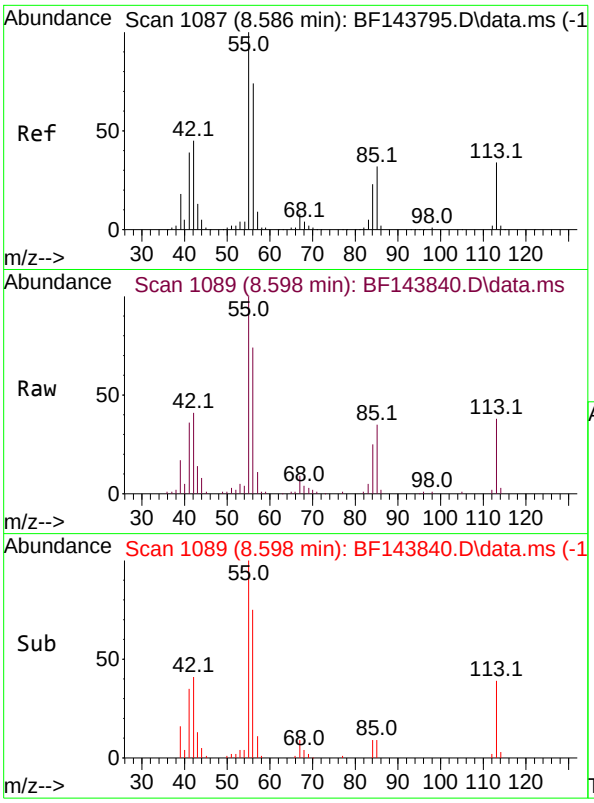


#34
Hexachlorobutadiene
Concen: 44.717 ng
RT: 8.310 min Scan# 1040
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:225 Resp: 263834

Ion	Ratio	Lower	Upper
225	100		
223	60.6	48.6	72.8
227	64.3	51.9	77.9



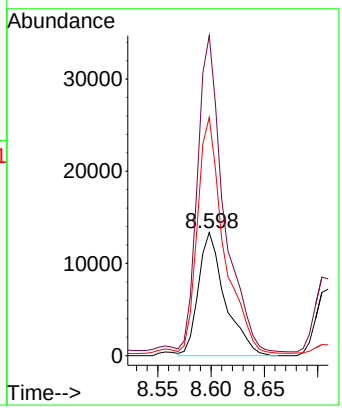


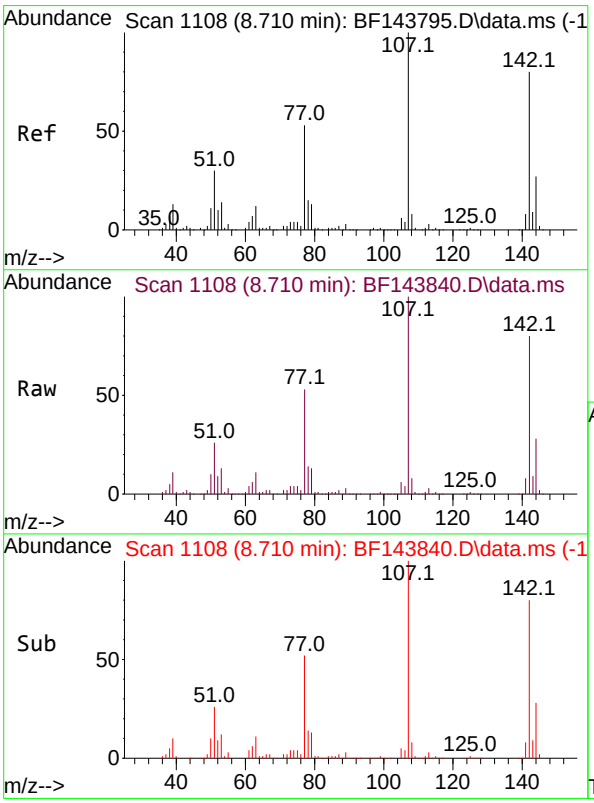
#35
Caprolactam
Concen: 11.921 ng
RT: 8.598 min Scan# 10
Delta R.T. -0.012 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:113 Resp: 23237

Ion	Ratio	Lower	Upper
113	100		
55	259.9	271.7	311.7#
56	193.5	194.5	234.5#

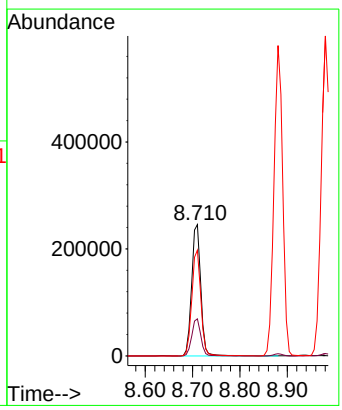


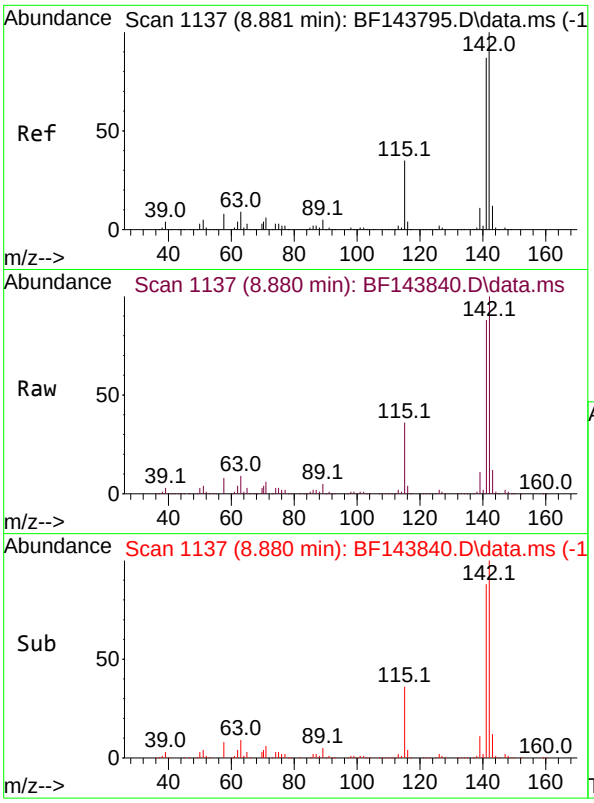


#36
4-Chloro-3-methylphenol
Concen: 45.887 ng
RT: 8.710 min Scan# 1108
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:107 Resp: 328214

Ion	Ratio	Lower	Upper
107	100		
144	28.2	21.8	32.8
142	80.4	63.6	95.4



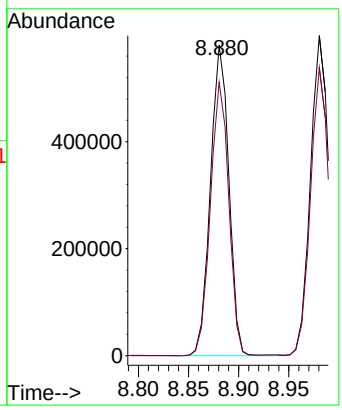


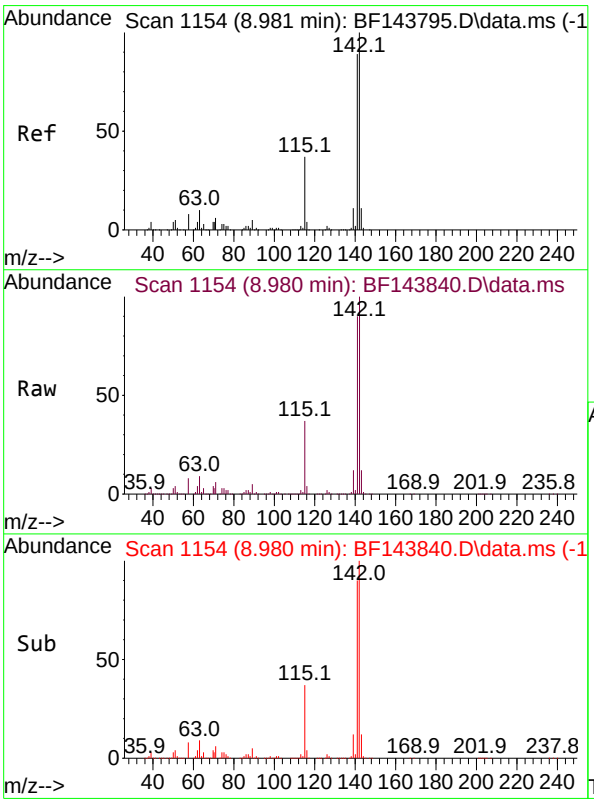
#37
2-Methylnaphthalene
Concen: 44.549 ng
RT: 8.880 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:142 Resp: 740720

Ion	Ratio	Lower	Upper
142	100		
141	88.1	69.4	104.0

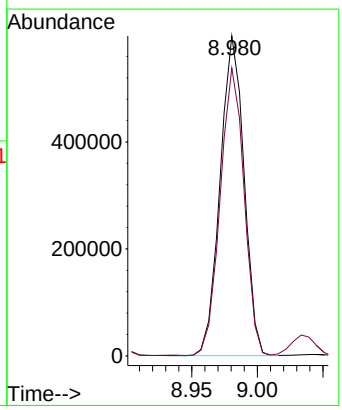


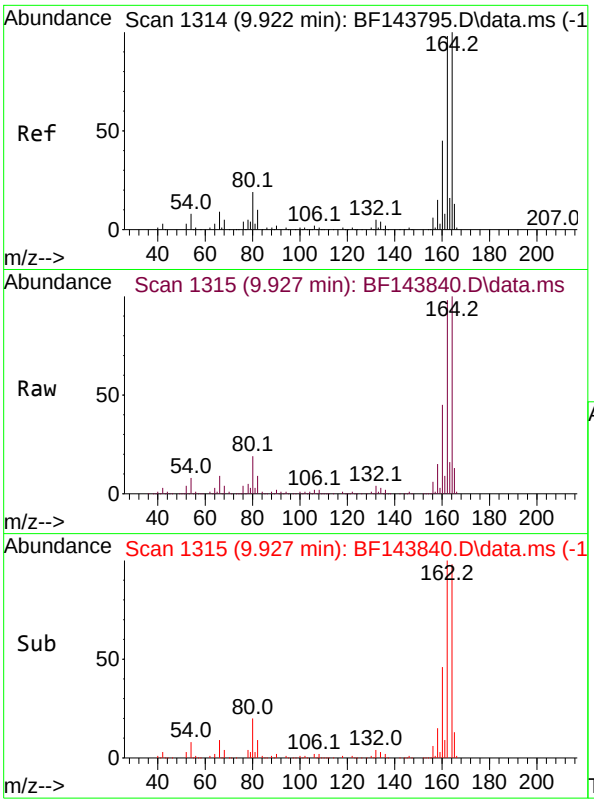


#38
1-Methylnaphthalene
Concen: 47.687 ng
RT: 8.980 min Scan# 1154
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:142 Resp: 758935

Ion	Ratio	Lower	Upper
142	100		
141	90.0	71.1	106.7



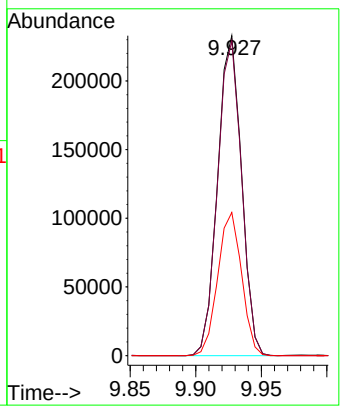


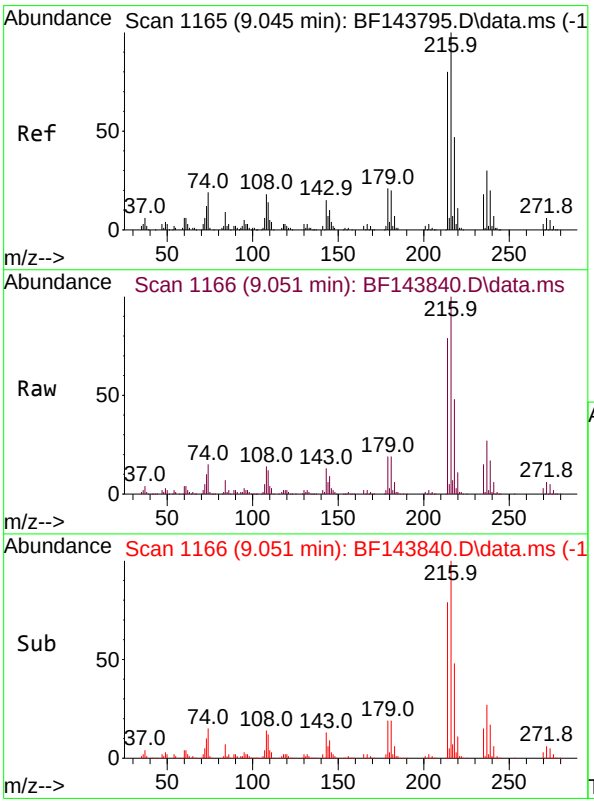
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.927 min Scan# 1
Delta R.T. -0.001 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:164 Resp: 295782

Ion	Ratio	Lower	Upper
164	100		
162	98.3	78.8	118.2
160	44.7	35.8	53.6

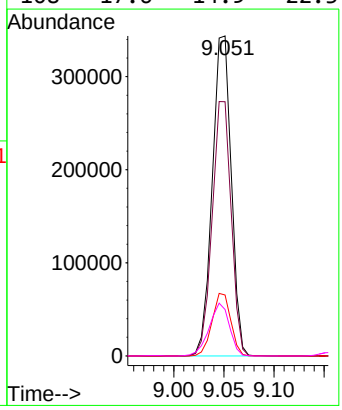


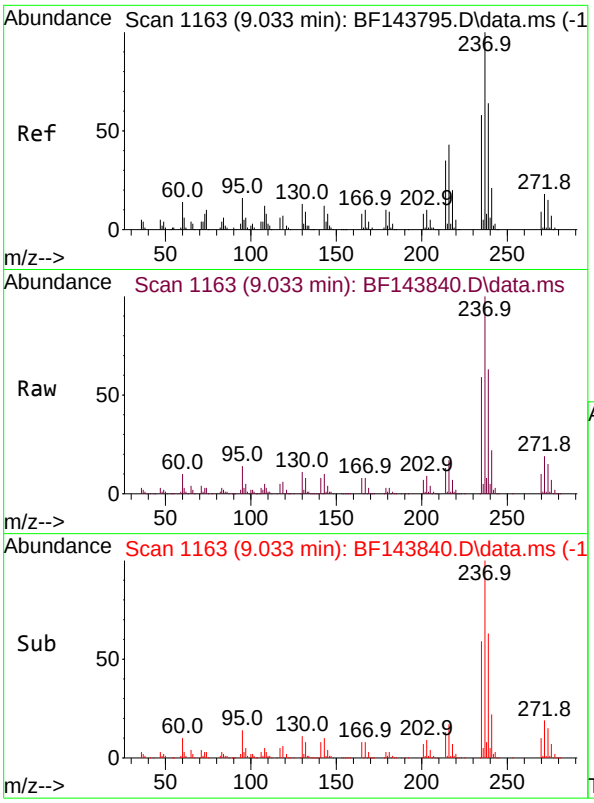


#40
1,2,4,5-Tetrachlorobenzene
Concen: 50.768 ng
RT: 9.051 min Scan# 1166
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:216 Resp: 453169

Ion	Ratio	Lower	Upper
216	100		
214	79.5	63.7	95.5
179	19.3	16.5	24.7
108	17.6	14.9	22.3



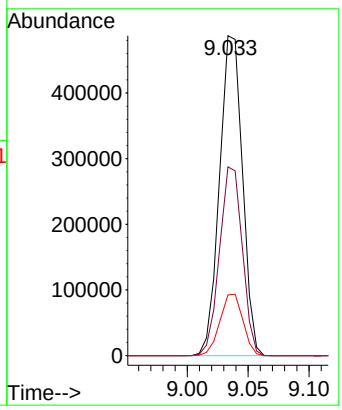


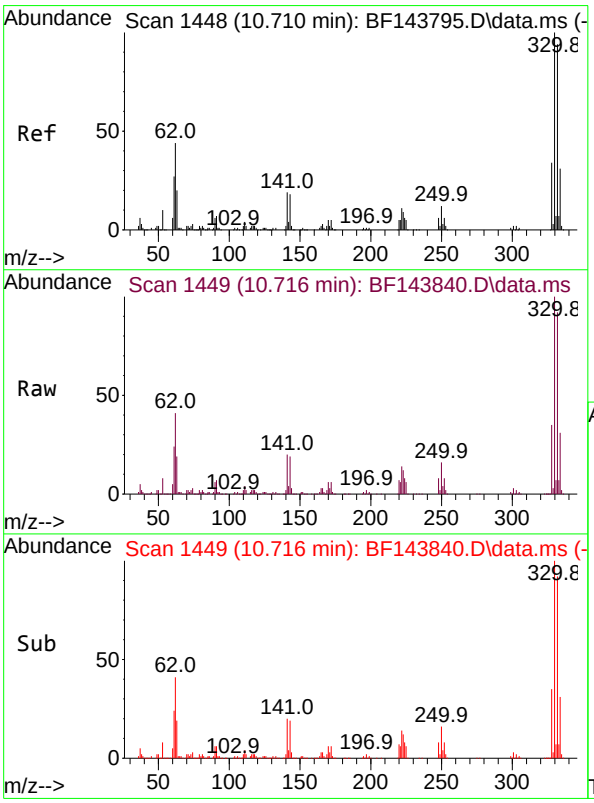
#41
Hexachlorocyclopentadiene
Concen: 113.055 ng
RT: 9.033 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:237 Resp: 639570

Ion	Ratio	Lower	Upper
237	100		
235	59.0	38.1	78.1
272	19.0	0.0	37.9

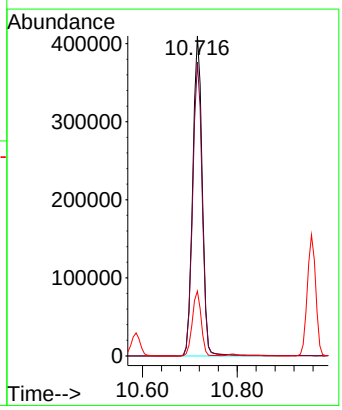


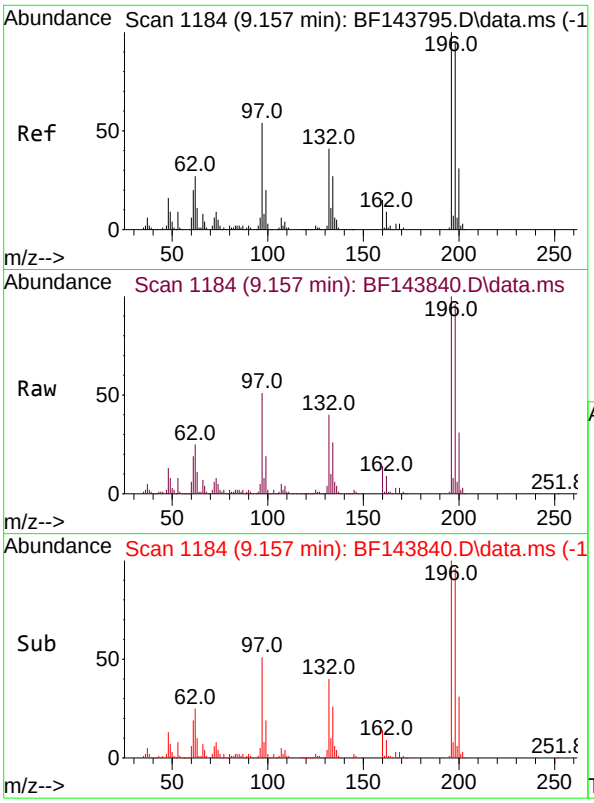


#42
2,4,6-Tribromophenol
Concen: 130.193 ng
RT: 10.716 min Scan# 1449
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:330 Resp: 570185

Ion	Ratio	Lower	Upper
330	100		
332	91.9	74.7	112.1
141	18.9	14.3	21.5



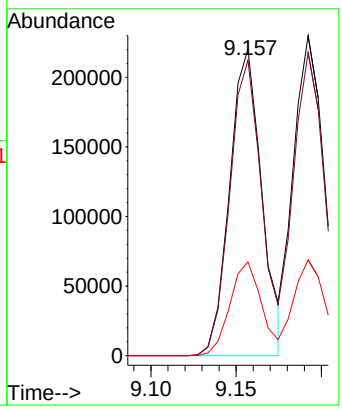


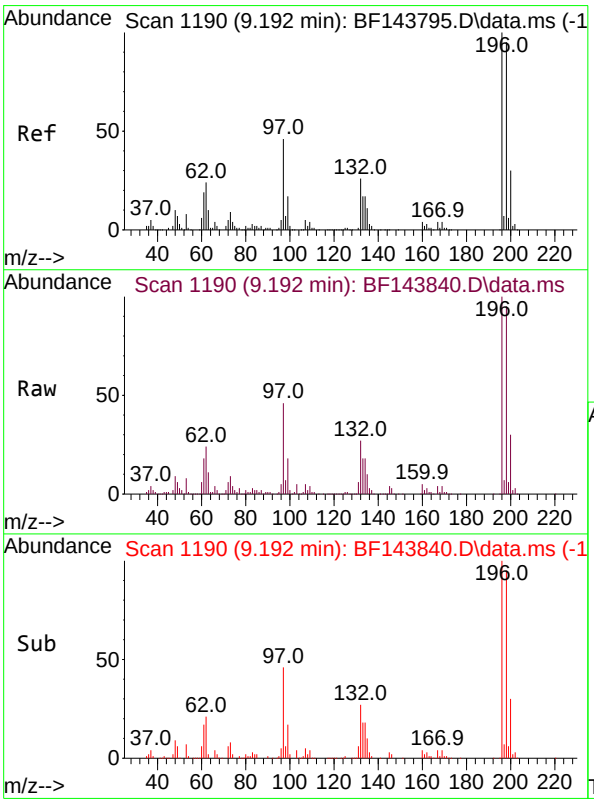
#43
2,4,6-Trichlorophenol
Concen: 51.661 ng
RT: 9.157 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:196 Resp: 288748

Ion	Ratio	Lower	Upper
196	100		
198	96.4	76.2	114.2
200	30.6	24.7	37.1

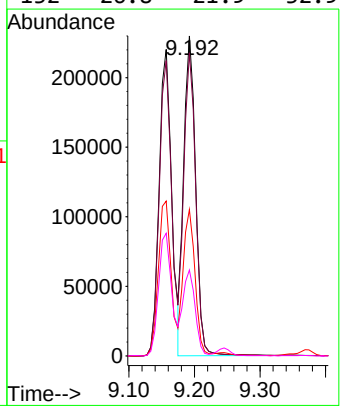


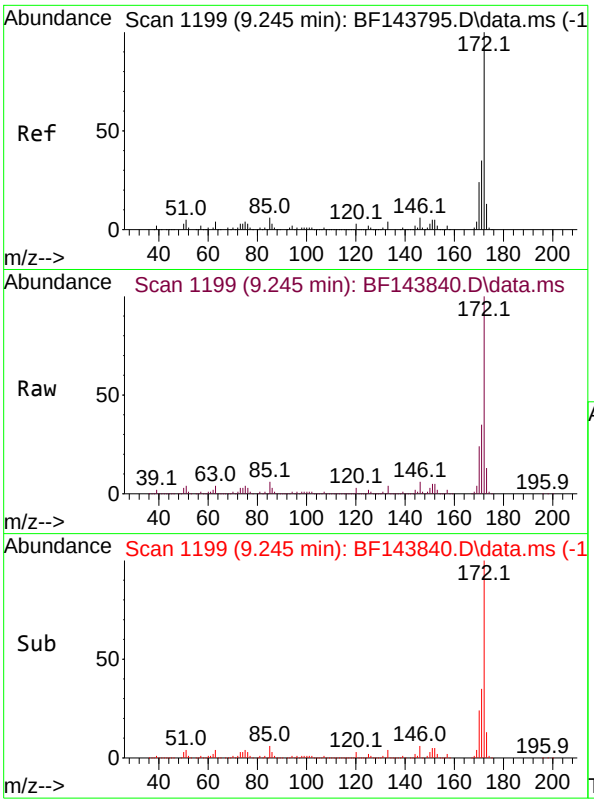


#44
2,4,5-Trichlorophenol
Concen: 49.997 ng
RT: 9.192 min Scan# 1190
Delta R.T. 0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:196 Resp: 292296

Ion	Ratio	Lower	Upper
196	100		
198	94.7	75.9	113.9
97	45.7	38.3	57.5
132	26.8	21.9	32.9



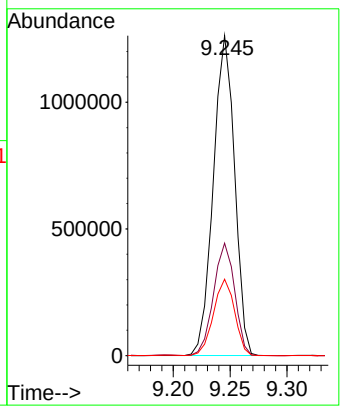


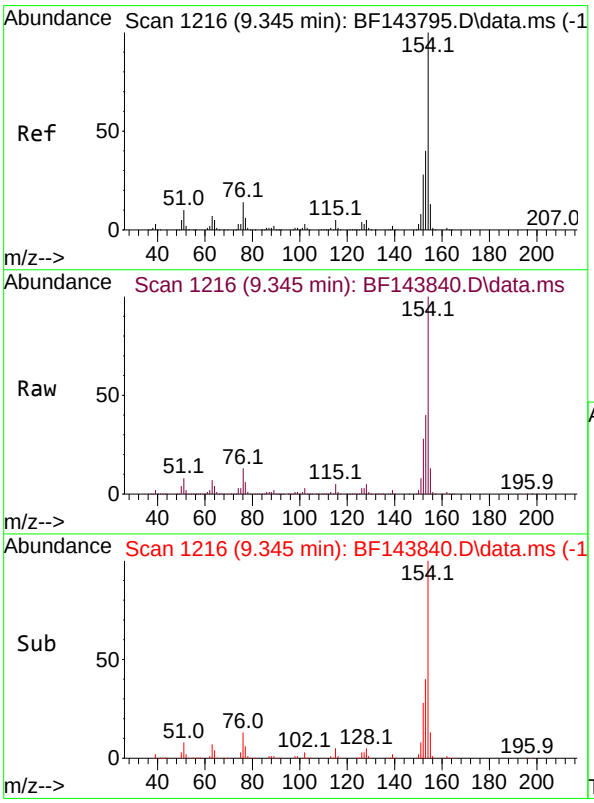
#45
2-Fluorobiphenyl
Concen: 86.861 ng
RT: 9.245 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:172 Resp: 1646395

Ion	Ratio	Lower	Upper
172	100		
171	35.1	27.9	41.9
170	23.9	19.1	28.7

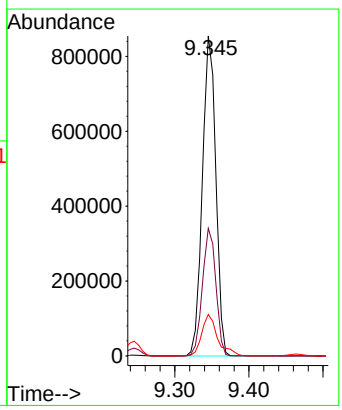


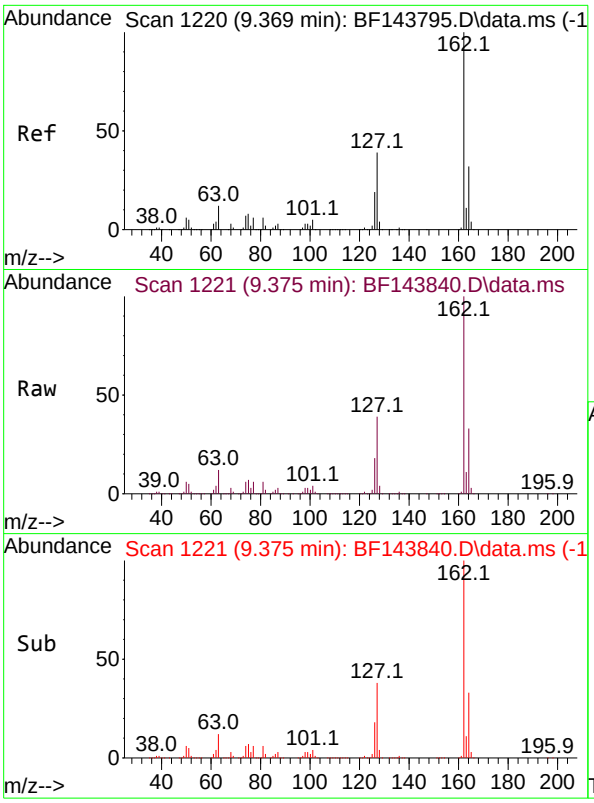


#46
1,1'-Biphenyl
Concen: 50.153 ng
RT: 9.345 min Scan# 1216
Delta R.T. 0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:154 Resp: 1073808

Ion	Ratio	Lower	Upper
154	100		
153	39.9	19.7	59.7
76	13.0	0.0	33.8



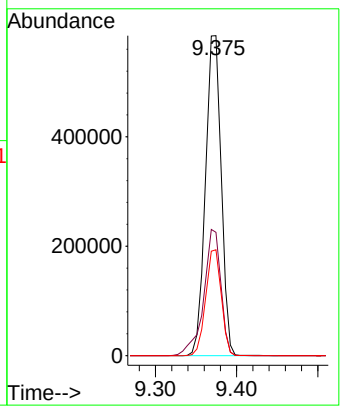


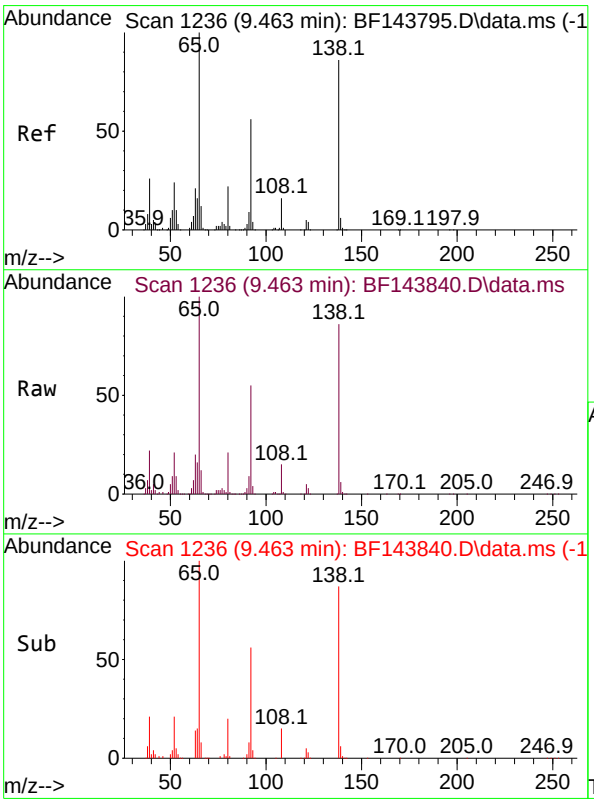
#47
2-Chloronaphthalene
Concen: 45.852 ng
RT: 9.375 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:162 Resp: 790250

Ion	Ratio	Lower	Upper
162	100		
127	38.5	31.5	47.3
164	33.1	25.9	38.9

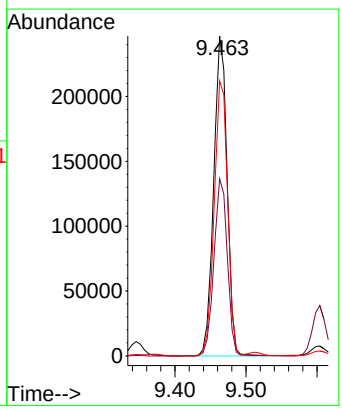


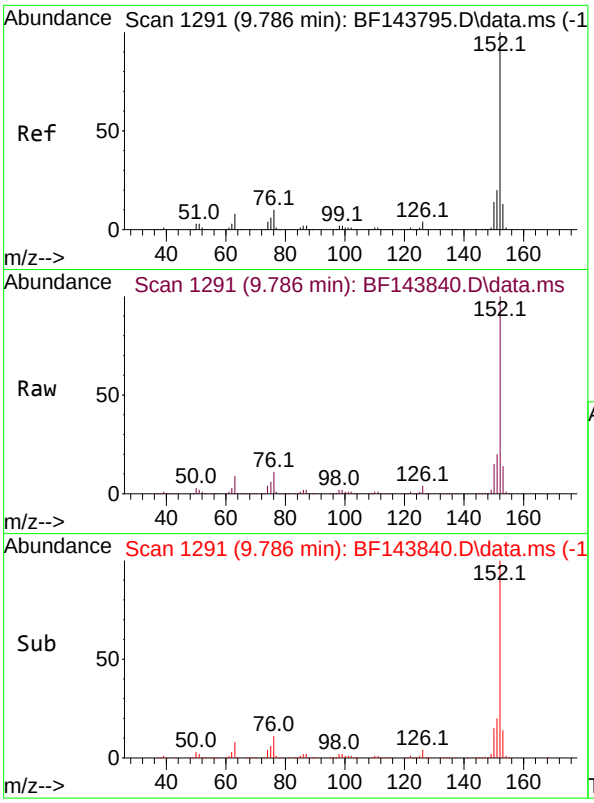


#48
2-Nitroaniline
Concen: 61.993 ng
RT: 9.463 min Scan# 1236
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion: 65 Resp: 322921

Ion	Ratio	Lower	Upper
65	100		
92	55.3	44.9	67.3
138	85.9	69.0	103.4



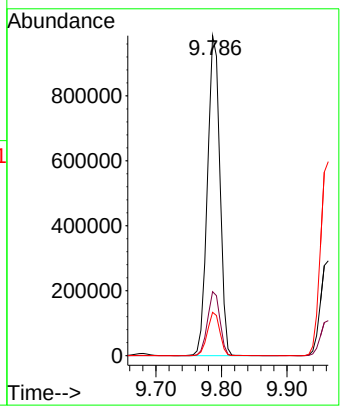


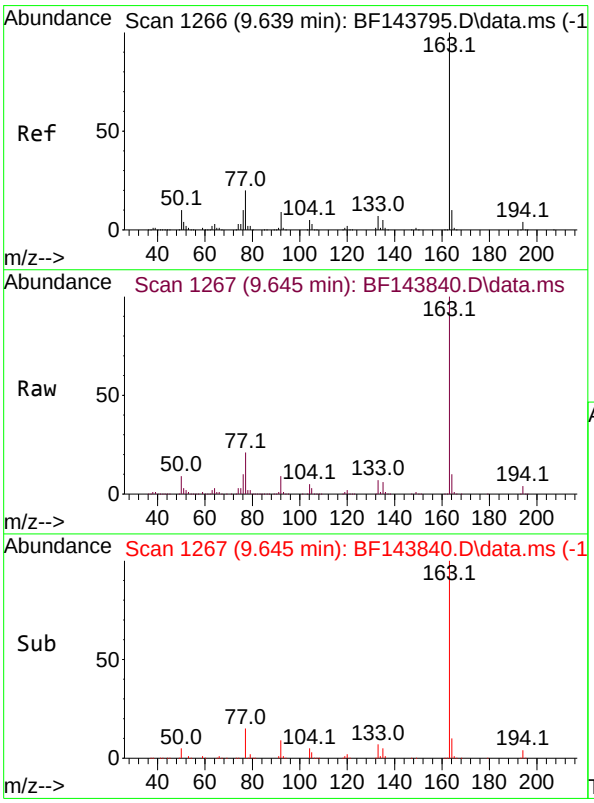
#49
Acenaphthylene
Concen: 54.513 ng
RT: 9.786 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:152 Resp: 1293376

Ion	Ratio	Lower	Upper
152	100		
151	20.0	15.7	23.5
153	13.5	10.6	15.8

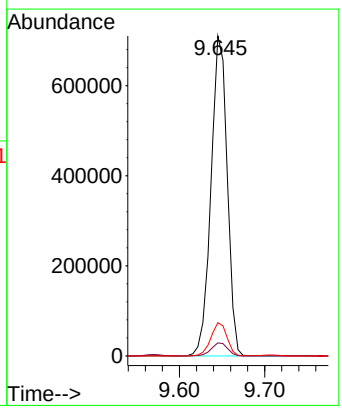


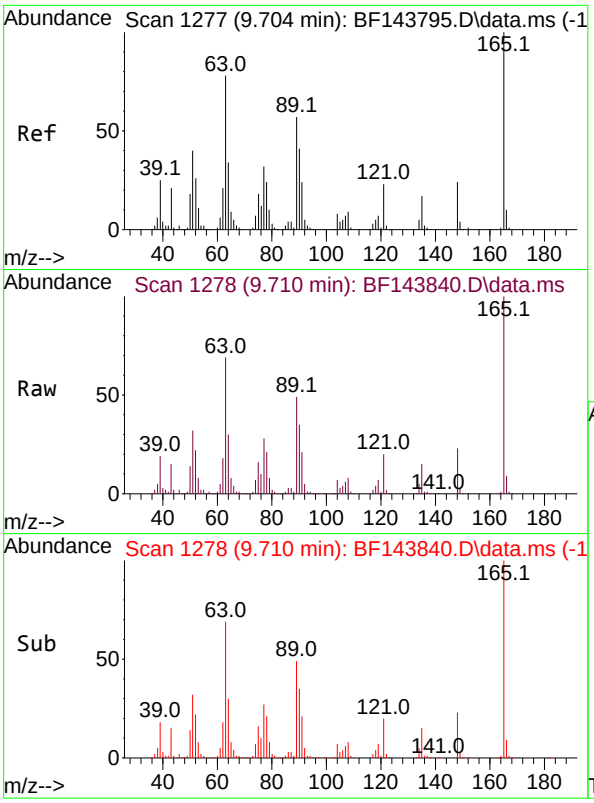


#50
Dimethylphthalate
Concen: 52.101 ng
RT: 9.645 min Scan# 1267
Delta R.T. 0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:163 Resp: 939267

Ion	Ratio	Lower	Upper
163	100		
194	4.1	3.0	4.6
164	10.4	8.2	12.2



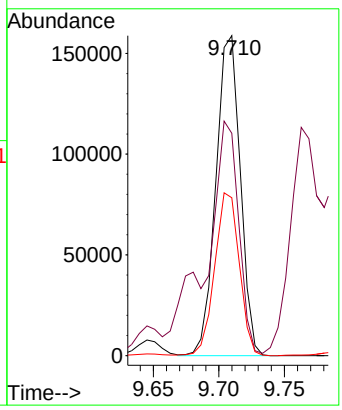


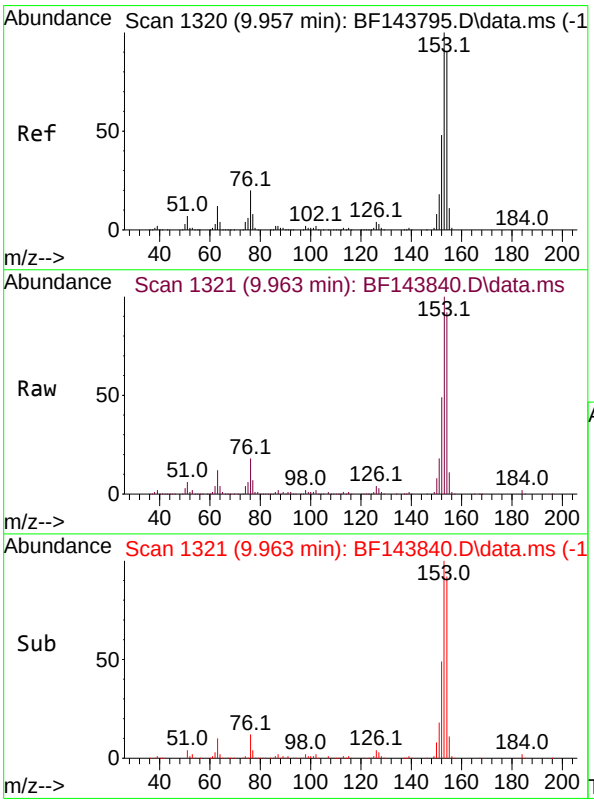
#51
2,6-Dinitrotoluene
Concen: 69.667 ng
RT: 9.710 min Scan# 1
Delta R.T. 0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:165 Resp: 206353

Ion	Ratio	Lower	Upper
165	100		
63	69.5	62.6	94.0
89	49.4	45.2	67.8

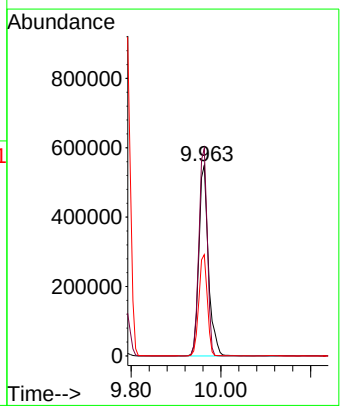


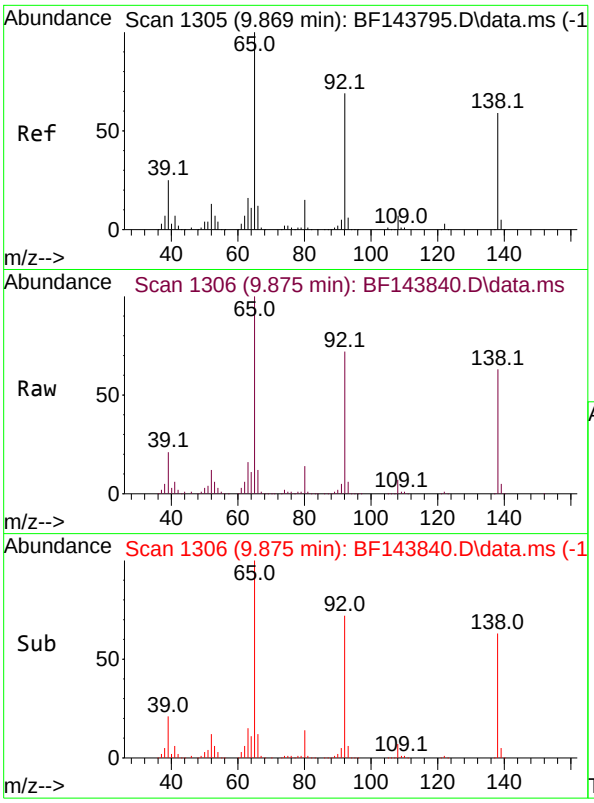


#52
Acenaphthene
Concen: 52.038 ng
RT: 9.963 min Scan# 1321
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:154 Resp: 812486

Ion	Ratio	Lower	Upper
154	100		
153	108.8	88.7	133.1
152	53.1	42.7	64.1



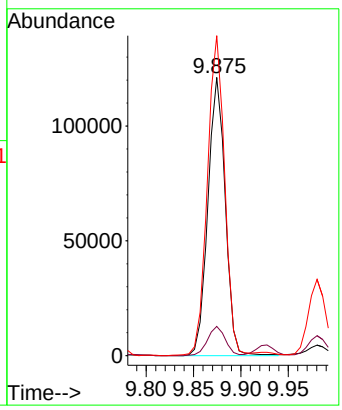


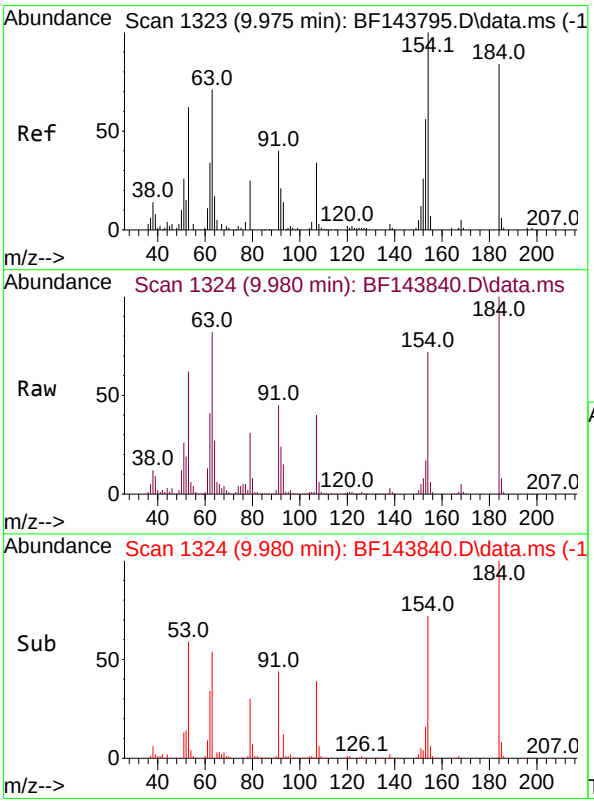
#53
3-Nitroaniline
Concen: 43.080 ng
RT: 9.875 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:138 Resp: 154670

Ion	Ratio	Lower	Upper
138	100		
108	10.5	9.9	14.9
92	115.0	93.5	140.3

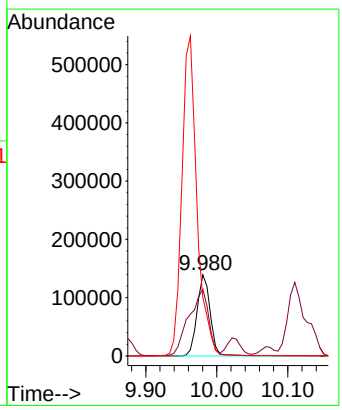


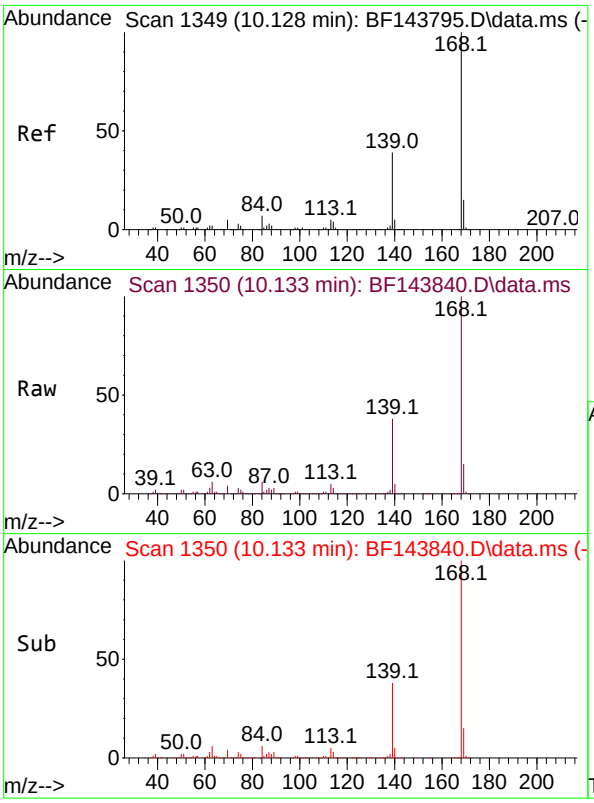


#54
2,4-Dinitrophenol
Concen: 112.202 ng
RT: 9.980 min Scan# 1324
Delta R.T. 0.005 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:184 Resp: 177900

Ion	Ratio	Lower	Upper
184	100		
63	82.3	84.6	127.0#
154	72.0	199.3	298.9#



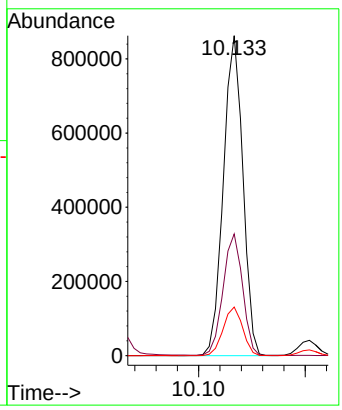


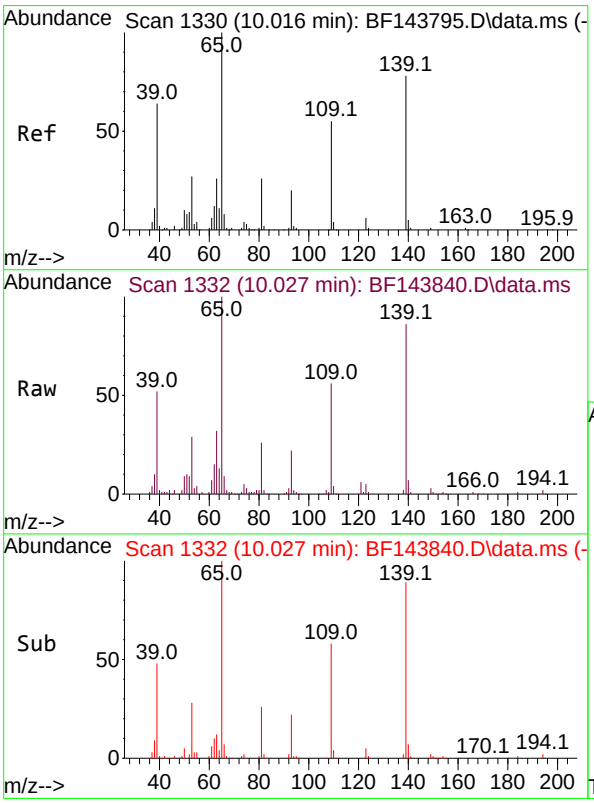
#55
Dibenzofuran
Concen: 49.685 ng
RT: 10.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:168 Resp: 1096972

Ion	Ratio	Lower	Upper
168	100		
139	38.0	31.0	46.6
169	15.2	11.9	17.9

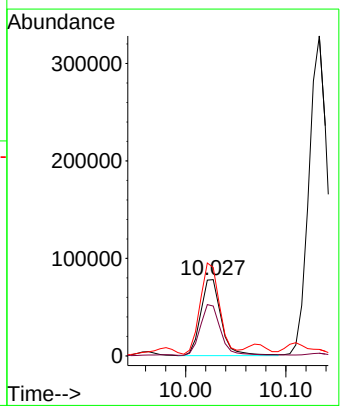


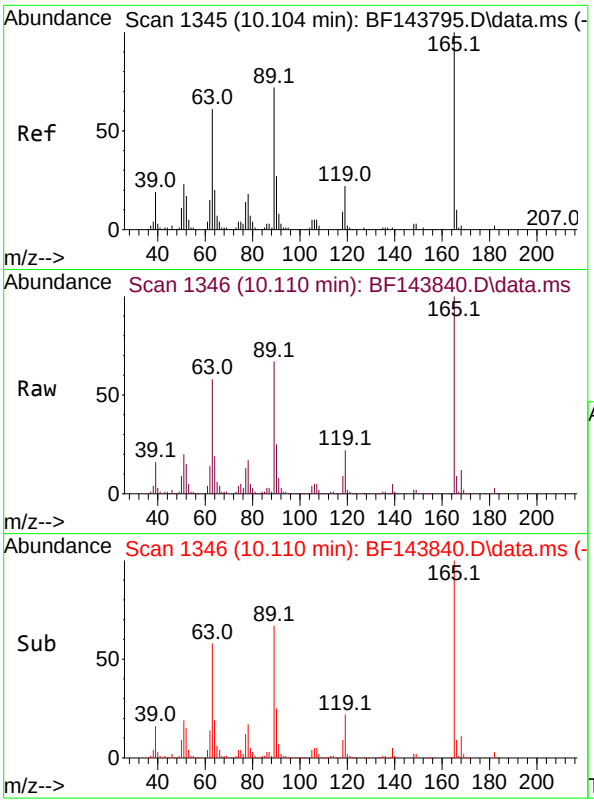


#56
4-Nitrophenol
Concen: 38.316 ng
RT: 10.027 min Scan# 1332
Delta R.T. 0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:139 Resp: 110855

Ion	Ratio	Lower	Upper
139	100		
109	65.5	50.2	90.2
65	115.9	109.2	149.2



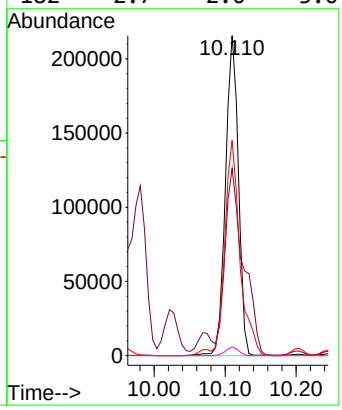


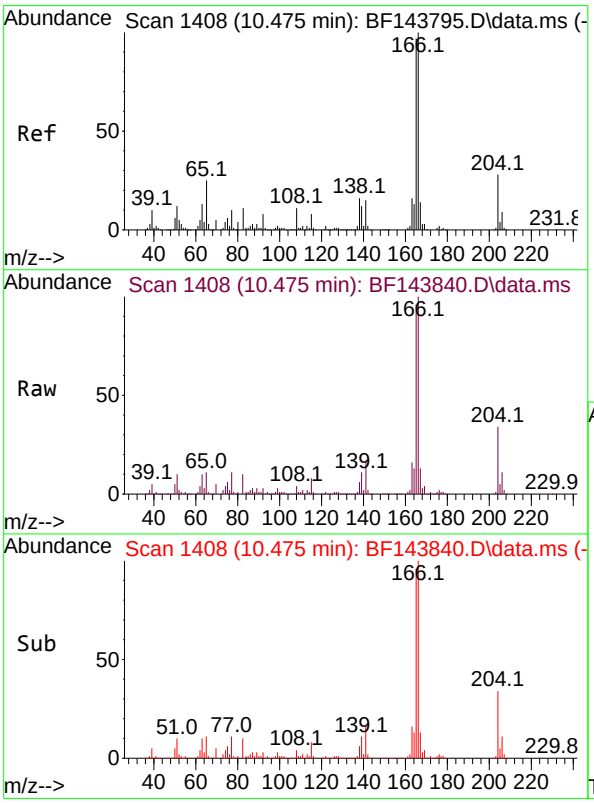
#57
2,4-Dinitrotoluene
Concen: 61.212 ng
RT: 10.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:165 Resp: 272876

Ion	Ratio	Lower	Upper
165	100		
63	58.5	48.9	73.3
89	67.3	57.5	86.3
182	2.7	2.0	3.0

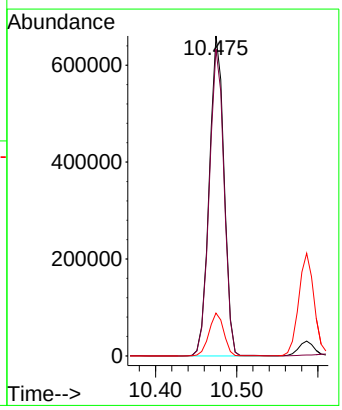


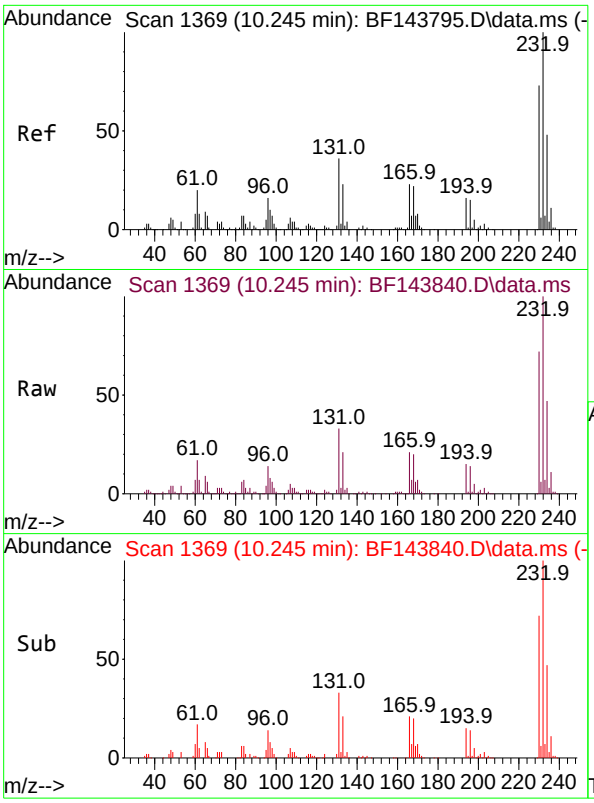


#58
Fluorene
Concen: 50.994 ng
RT: 10.475 min Scan# 1408
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:166 Resp: 836993

Ion	Ratio	Lower	Upper
166	100		
165	95.9	78.0	117.0
167	13.4	10.9	16.3



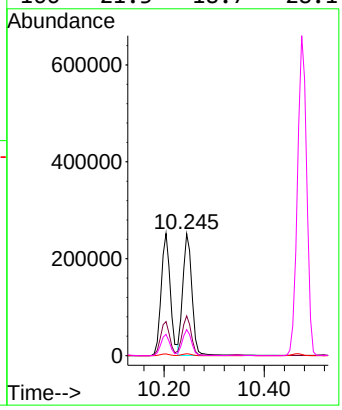


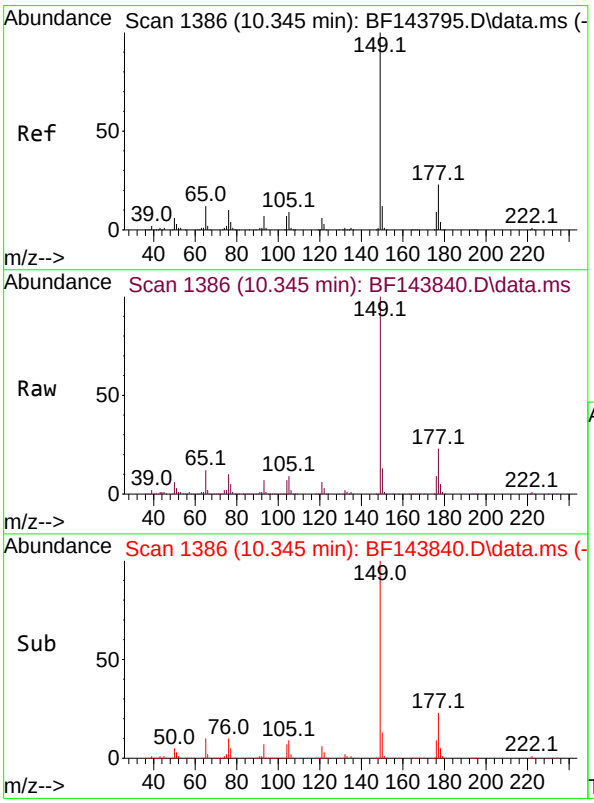
#59
2,3,4,6-Tetrachlorophenol
Concen: 63.631 ng
RT: 10.245 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:232 Resp: 318686

Ion	Ratio	Lower	Upper
232	100		
131	32.9	29.4	44.2
130	1.5	1.3	1.9
166	21.3	18.7	28.1

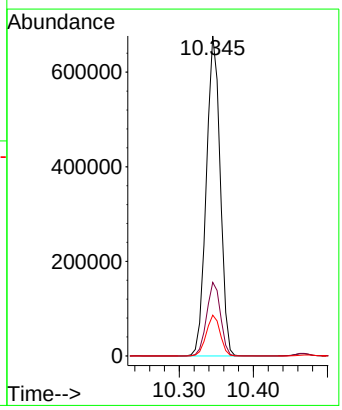


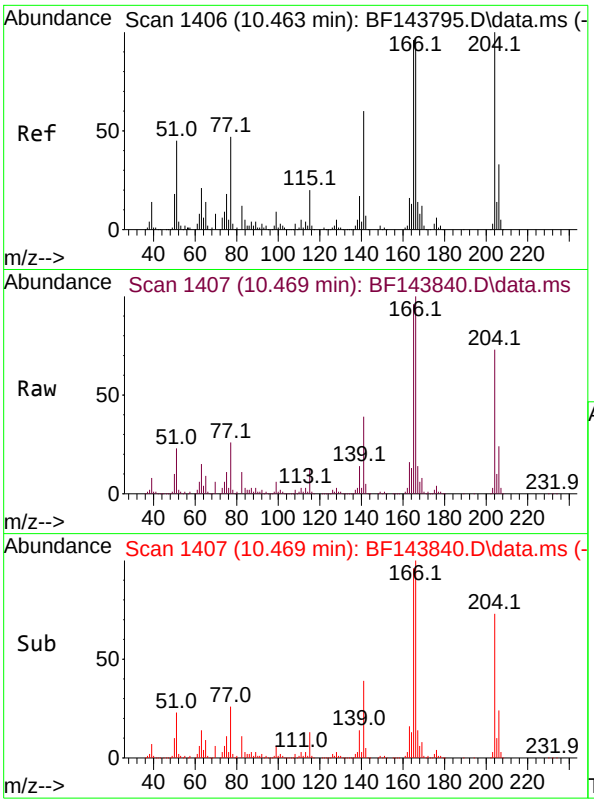


#60
Diethylphthalate
Concen: 52.242 ng
RT: 10.345 min Scan# 1386
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:149 Resp: 881630

Ion	Ratio	Lower	Upper
149	100		
177	23.0	18.1	27.1
150	12.7	9.7	14.5



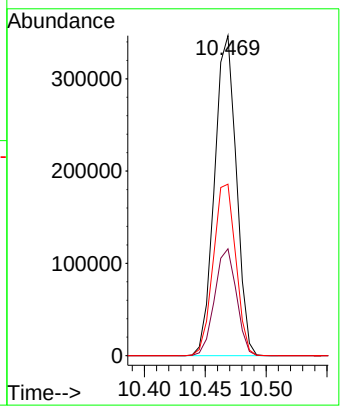


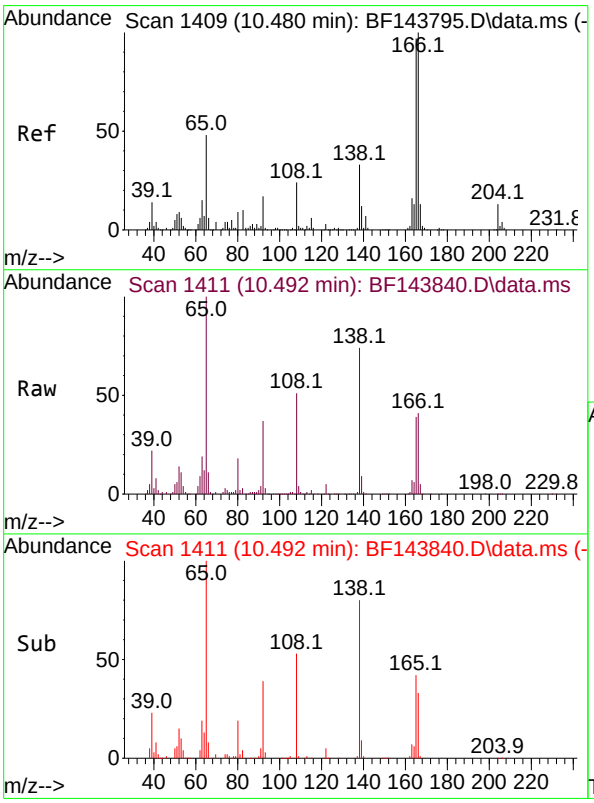
#61
4-Chlorophenyl-phenylether
Concen: 51.726 ng
RT: 10.469 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:204 Resp: 432597

Ion	Ratio	Lower	Upper
204	100		
206	33.4	26.7	40.1
141	53.6	48.2	72.2

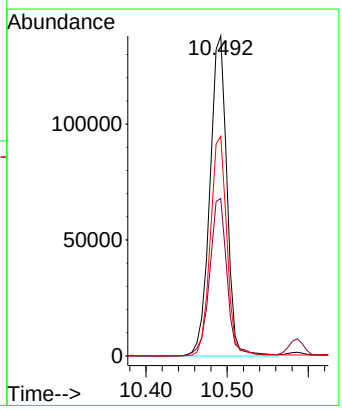


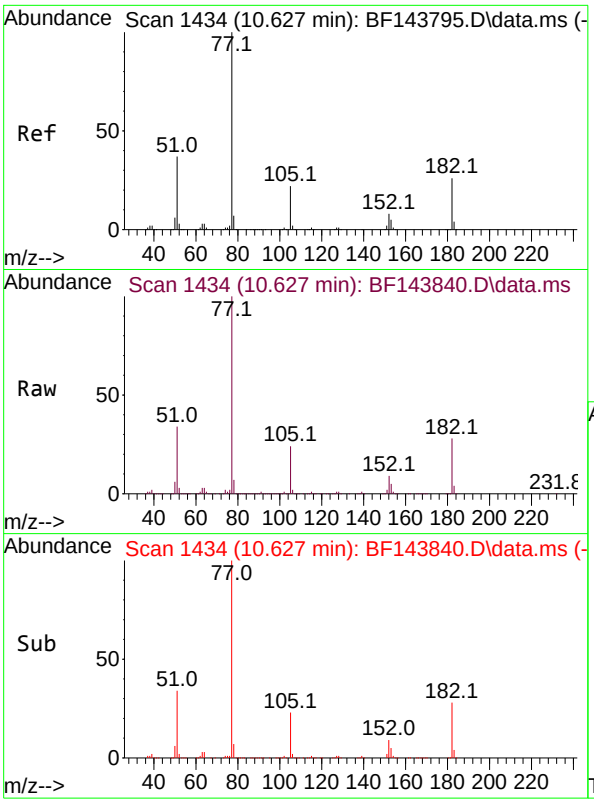


#62
4-Nitroaniline
Concen: 59.653 ng
RT: 10.492 min Scan# 1411
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:138 Resp: 201378

Ion	Ratio	Lower	Upper
138	100		
92	49.2	31.5	71.5
108	68.6	51.9	91.9



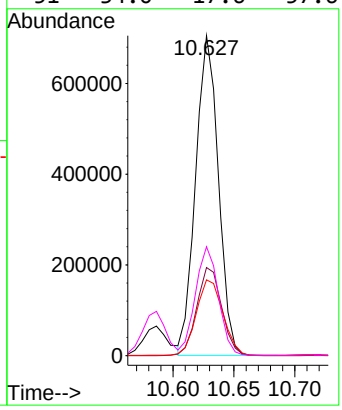


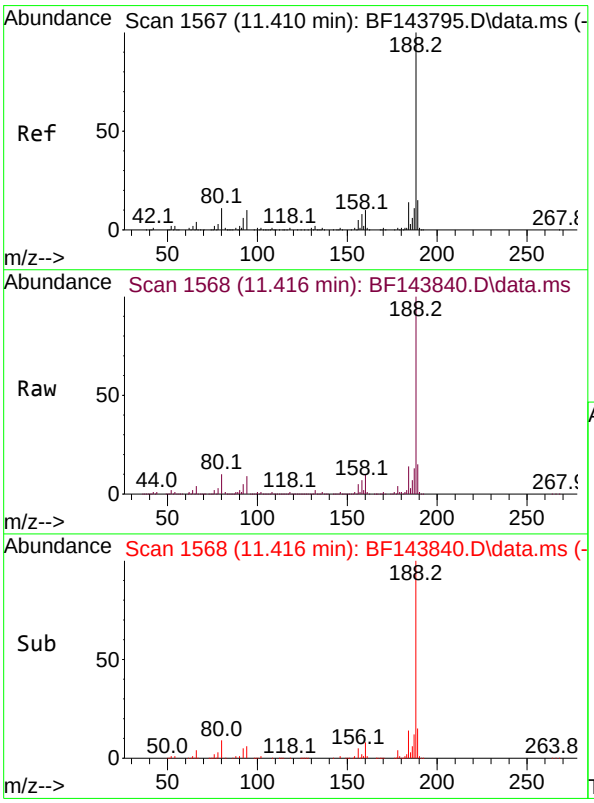
#63
Azobenzene
Concen: 51.521 ng
RT: 10.627 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion: 77 Resp: 916316

Ion	Ratio	Lower	Upper
77	100		
182	27.5	5.9	45.9
105	23.7	2.3	42.3
51	34.0	17.6	57.6

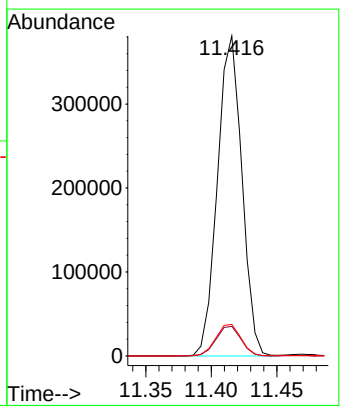


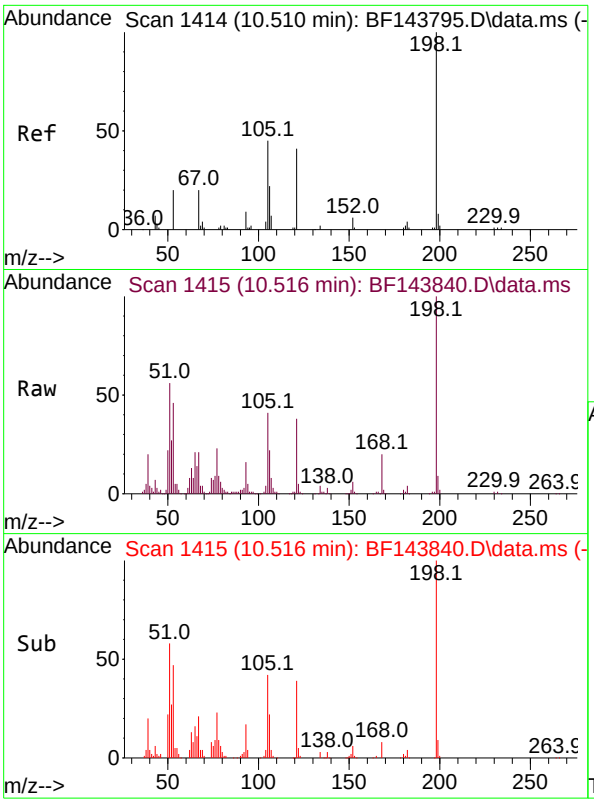


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1568
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:188 Resp: 495559

Ion	Ratio	Lower	Upper
188	100		
94	9.2	8.2	12.2
80	9.8	8.6	12.8



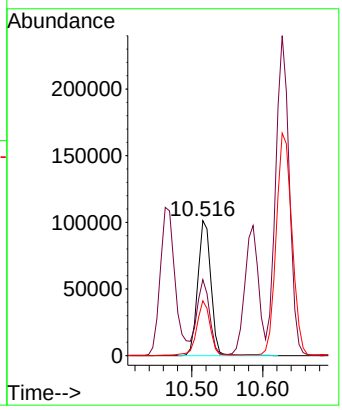


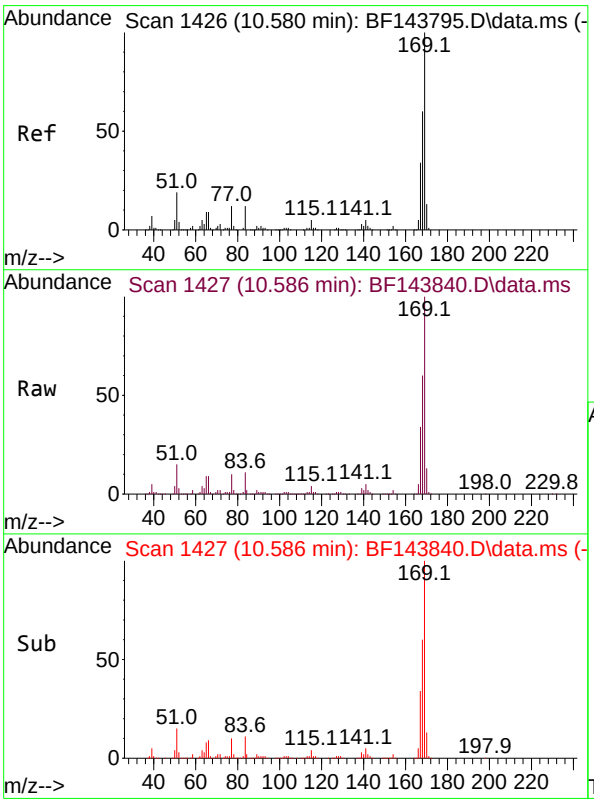
#65
4,6-Dinitro-2-methylphenol
Concen: 64.652 ng
RT: 10.516 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:198 Resp: 128926

Ion	Ratio	Lower	Upper
198	100		
51	56.3	52.0	92.0
105	40.6	27.5	67.5

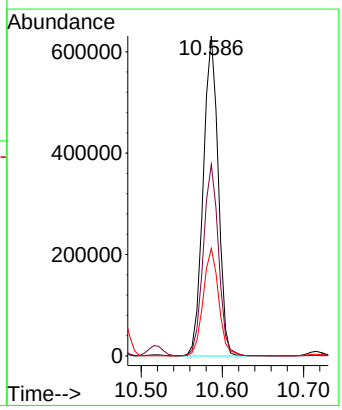


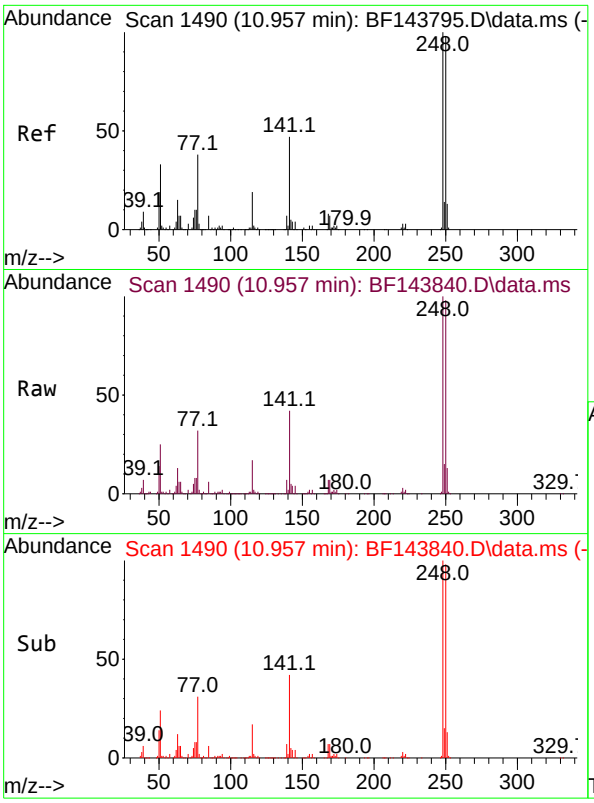


#66
n-Nitrosodiphenylamine
Concen: 49.778 ng
RT: 10.586 min Scan# 1427
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:169 Resp: 811250

Ion	Ratio	Lower	Upper
169	100		
168	59.9	47.9	71.9
167	33.6	27.0	40.6



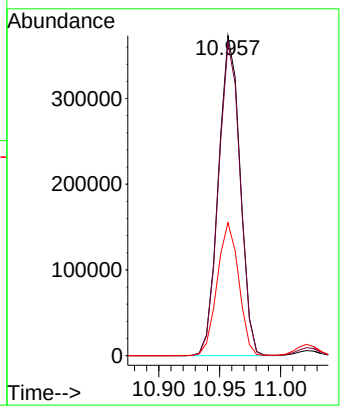


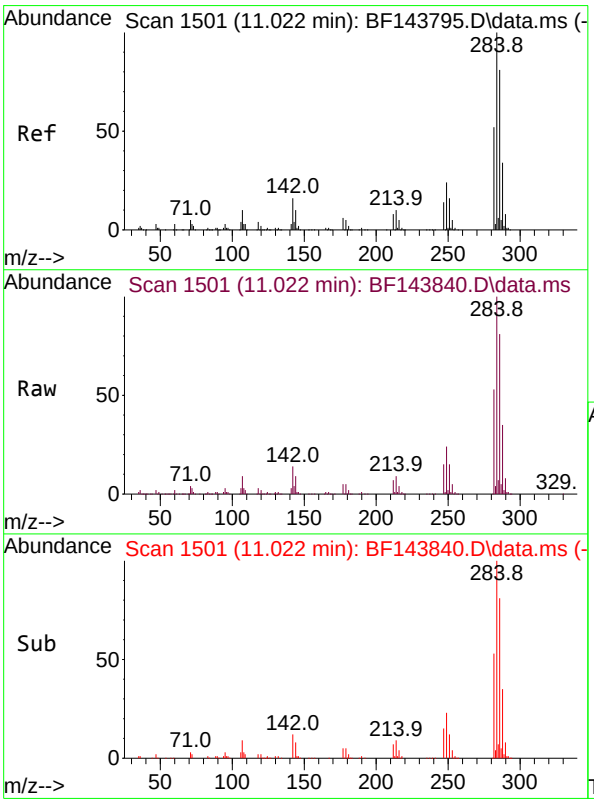
#67
4-Bromophenyl-phenylether
Concen: 54.531 ng
RT: 10.957 min Scan# 14
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:248 Resp: 460521

Ion	Ratio	Lower	Upper
248	100		
250	97.6	78.7	118.1
141	41.5	37.9	56.9

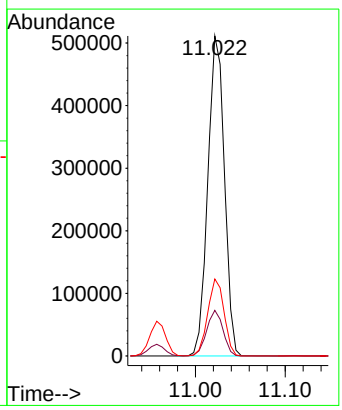


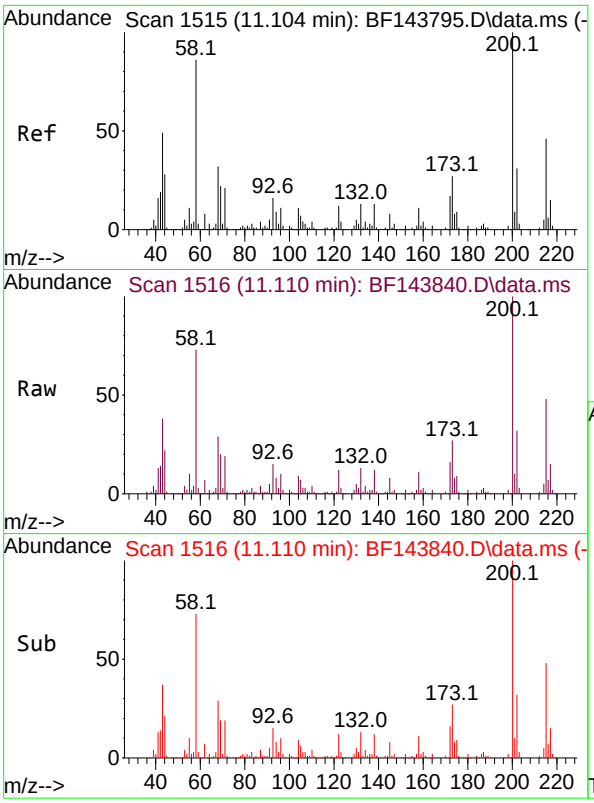


#68
Hexachlorobenzene
Concen: 56.377 ng
RT: 11.022 min Scan# 1501
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:284 Resp: 656128

Ion	Ratio	Lower	Upper
284	100		
142	14.2	13.1	19.7
249	24.0	19.5	29.3



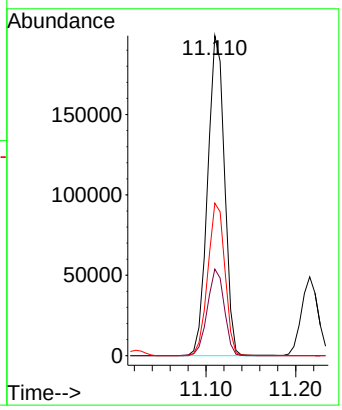


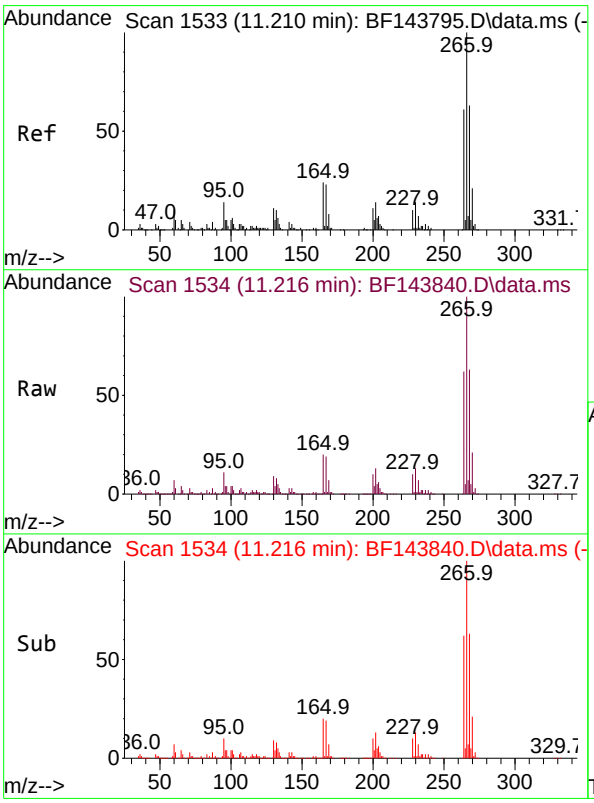
#69
Atrazine
Concen: 54.975 ng
RT: 11.110 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:200 Resp: 259448

Ion	Ratio	Lower	Upper
200	100		
173	27.0	7.2	47.2
215	47.6	26.0	66.0

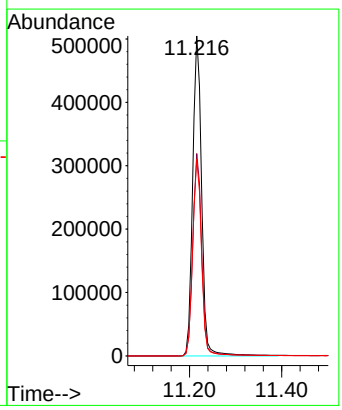


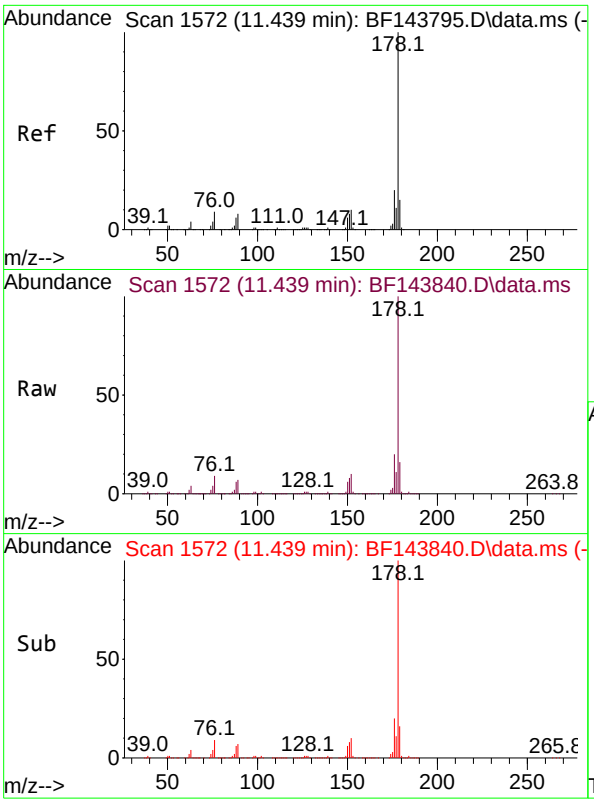


#70
Pentachlorophenol
Concen: 117.281 ng
RT: 11.216 min Scan# 1534
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:266 Resp: 679436

Ion	Ratio	Lower	Upper
266	100		
268	63.2	50.5	75.7
264	61.5	48.8	73.2



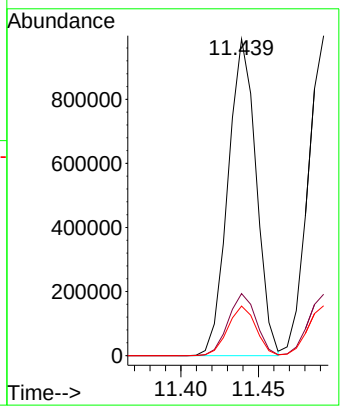


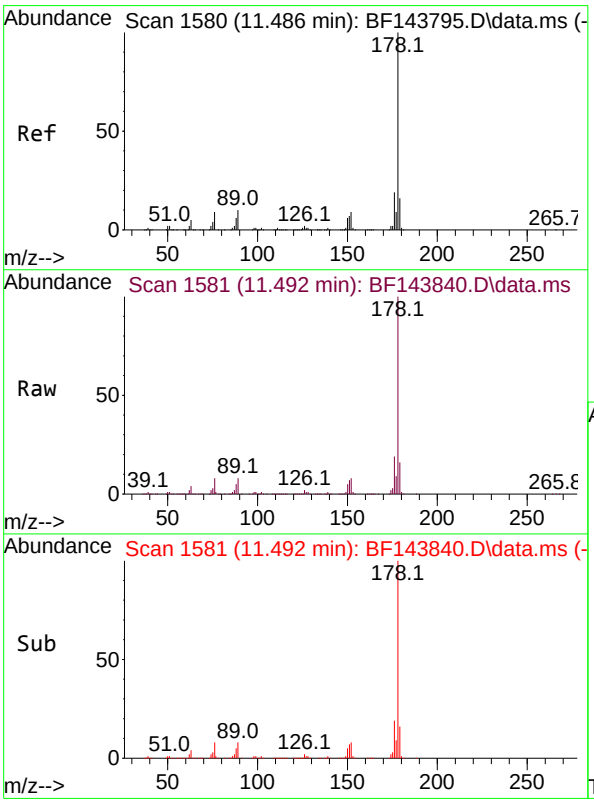
#71
Phenanthrene
Concen: 49.014 ng
RT: 11.439 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:178 Resp: 1247011

Ion	Ratio	Lower	Upper
178	100		
176	19.6	15.6	23.4
179	15.6	12.2	18.4

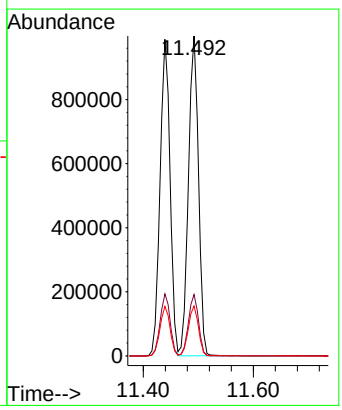


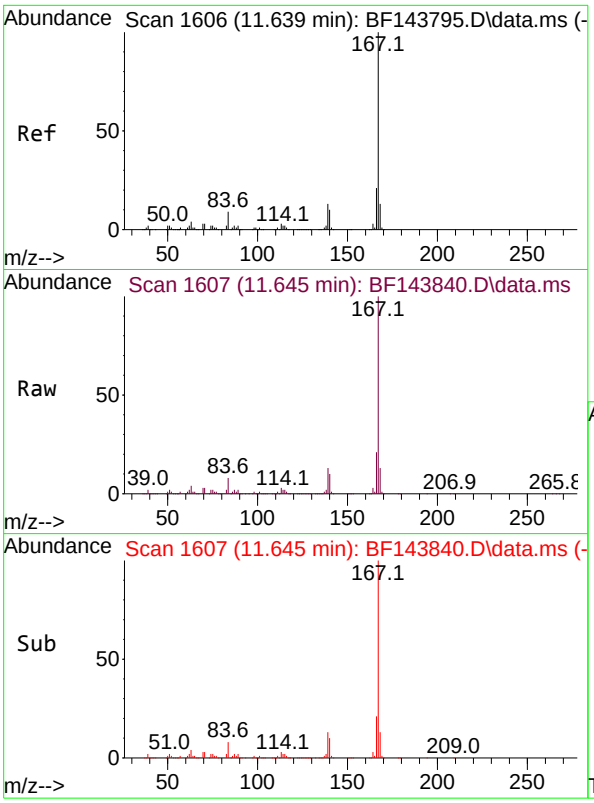


#72
Anthracene
Concen: 49.682 ng
RT: 11.492 min Scan# 1581
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:178 Resp: 1267883

Ion	Ratio	Lower	Upper
178	100		
176	19.2	15.3	22.9
179	15.6	12.8	19.2



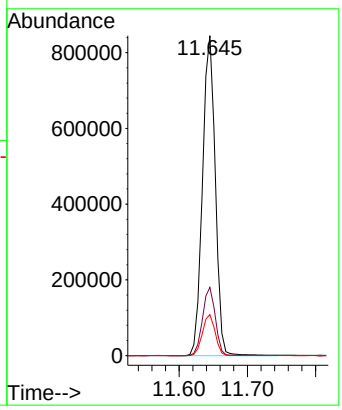


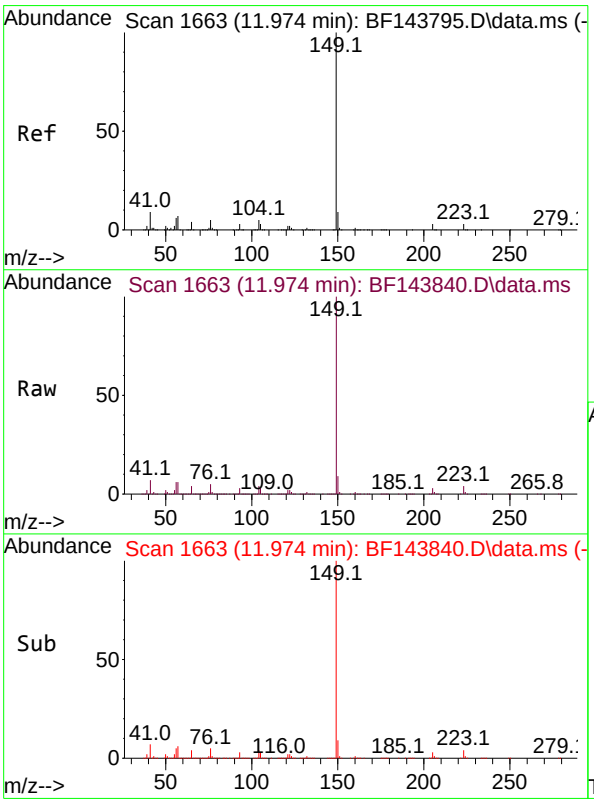
#73
Carbazole
Concen: 49.408 ng
RT: 11.645 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:167 Resp: 1102440

Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.0	25.4
139	12.8	10.6	15.8

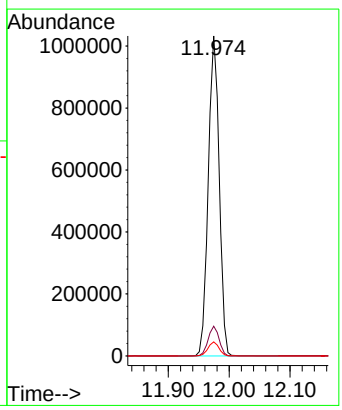


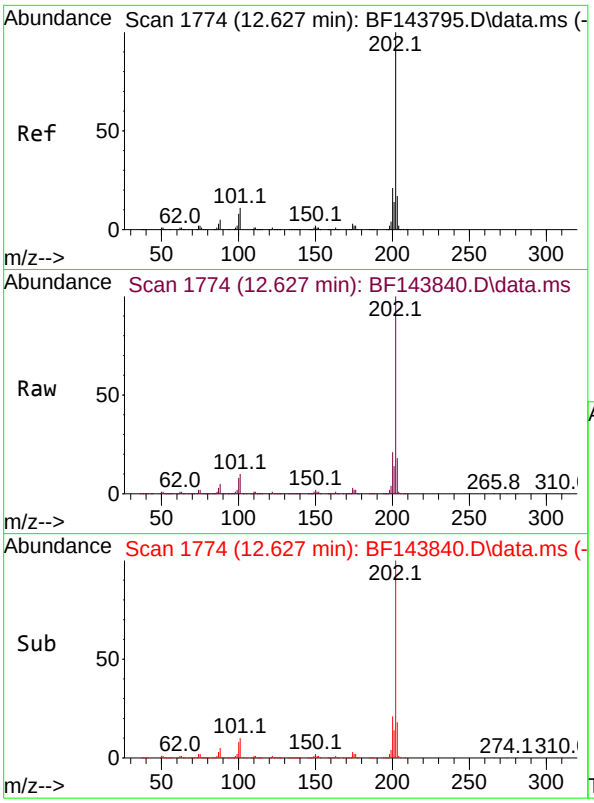


#74
Di-n-butylphthalate
Concen: 50.161 ng
RT: 11.974 min Scan# 1663
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:149 Resp: 1287218

Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.3	10.9
104	4.4	3.6	5.4



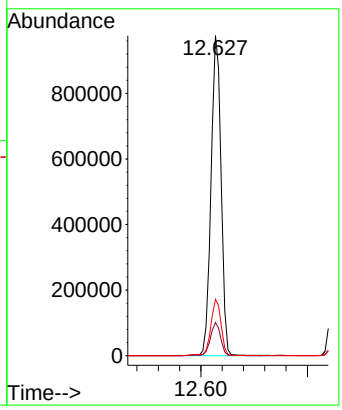


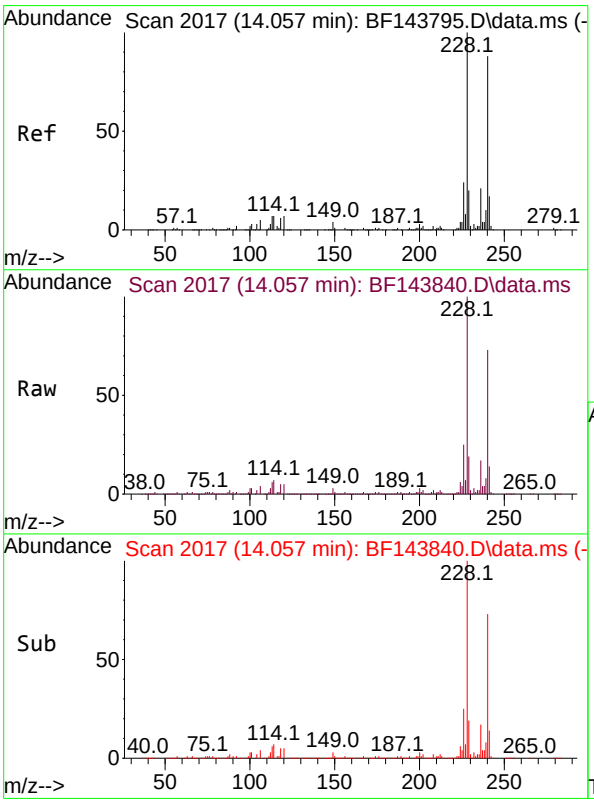
#75
Fluoranthene
Concen: 49.879 ng
RT: 12.627 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:202 Resp: 1276355

Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	31.1
203	17.6	0.0	37.4

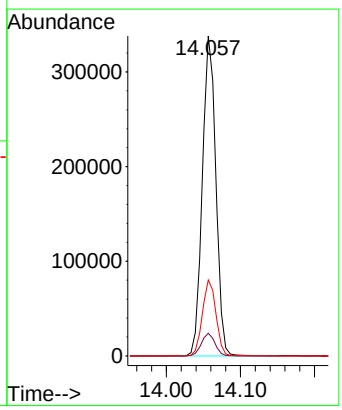


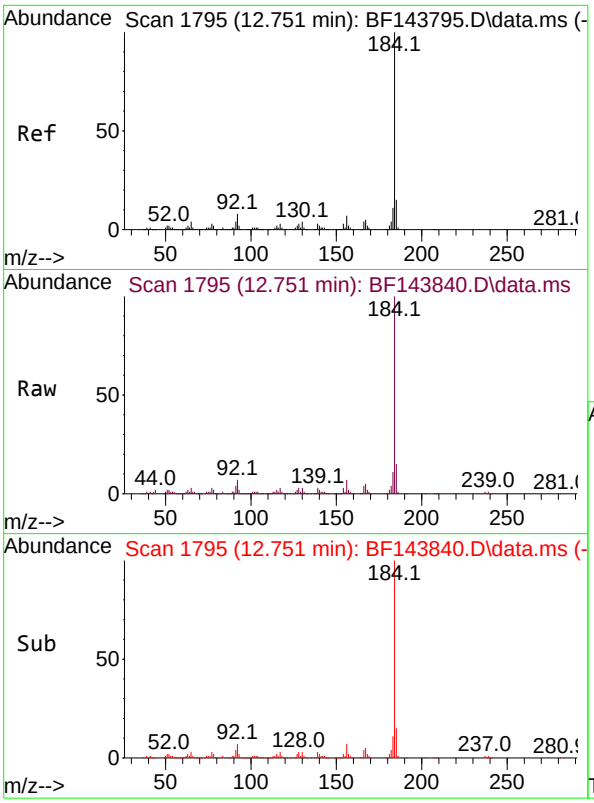


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:240 Resp: 427552

Ion	Ratio	Lower	Upper
240	100		
120	7.1	6.2	9.4
236	23.7	19.4	29.2



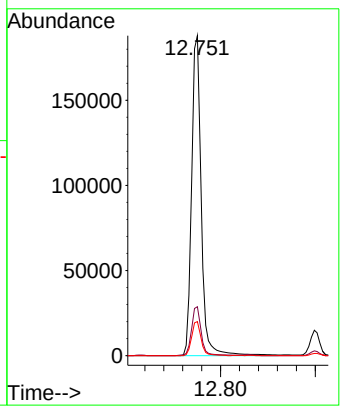


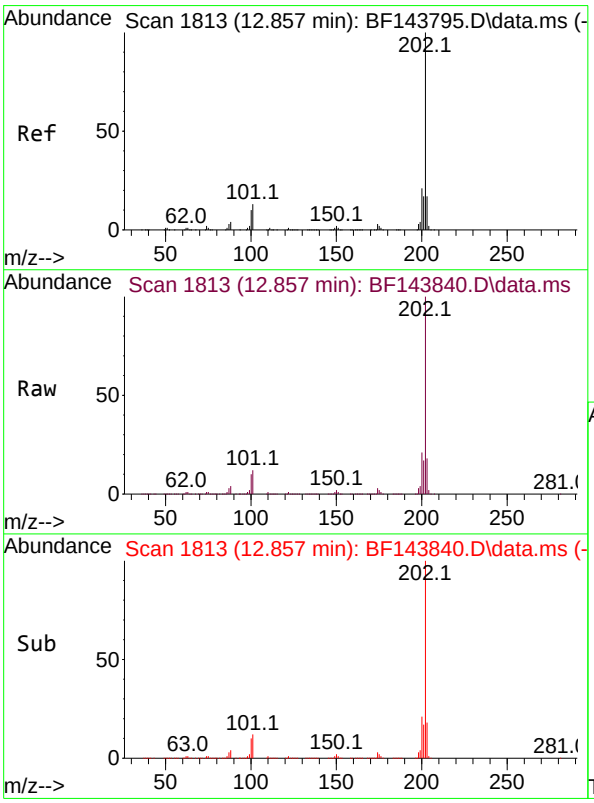
#77
Benzidine
Concen: 25.450 ng
RT: 12.751 min Scan# 1
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:184 Resp: 265152

Ion	Ratio	Lower	Upper
184	100		
185	15.3	11.6	17.4
183	10.6	8.6	13.0

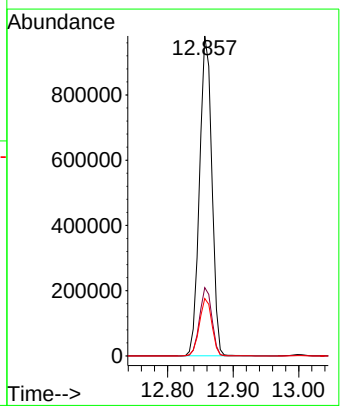


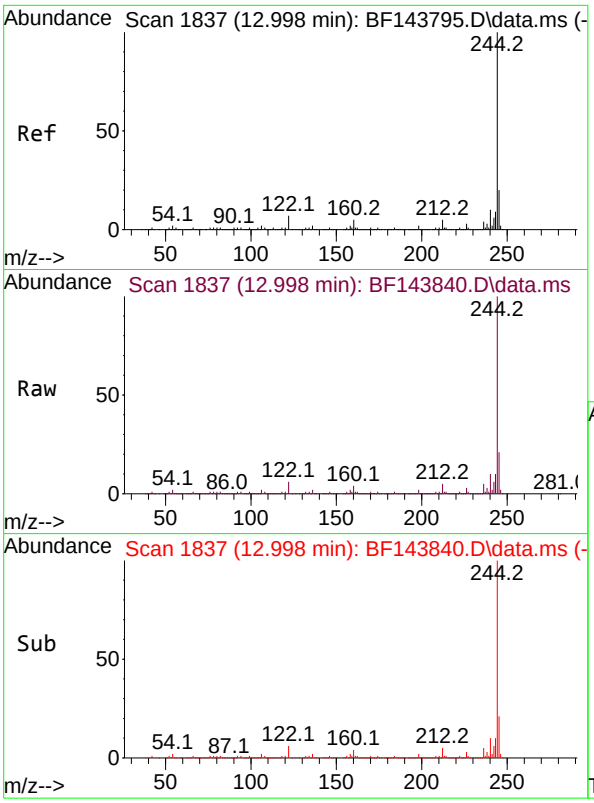


#78
Pyrene
Concen: 60.578 ng
RT: 12.857 min Scan# 1813
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:202 Resp: 1273365

Ion	Ratio	Lower	Upper
202	100		
200	21.3	17.0	25.4
203	18.0	13.9	20.9



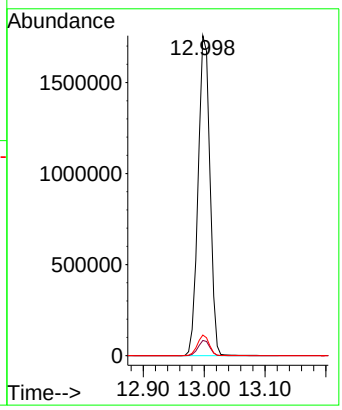


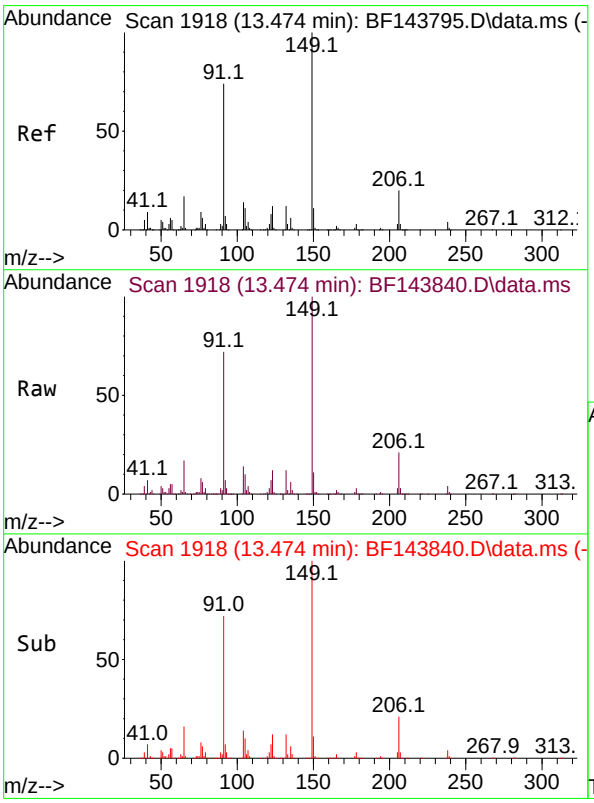
#79
Terphenyl-d14
Concen: 112.482 ng
RT: 12.998 min Scan# 18
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:244 Resp: 2364696

Ion	Ratio	Lower	Upper
244	100		
212	4.7	3.9	5.9
122	6.4	5.6	8.4

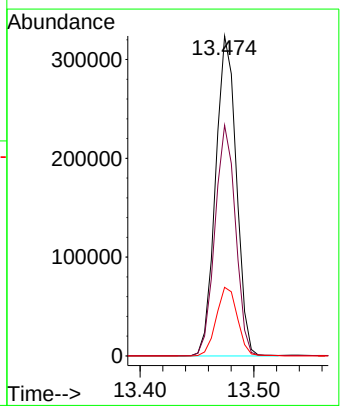


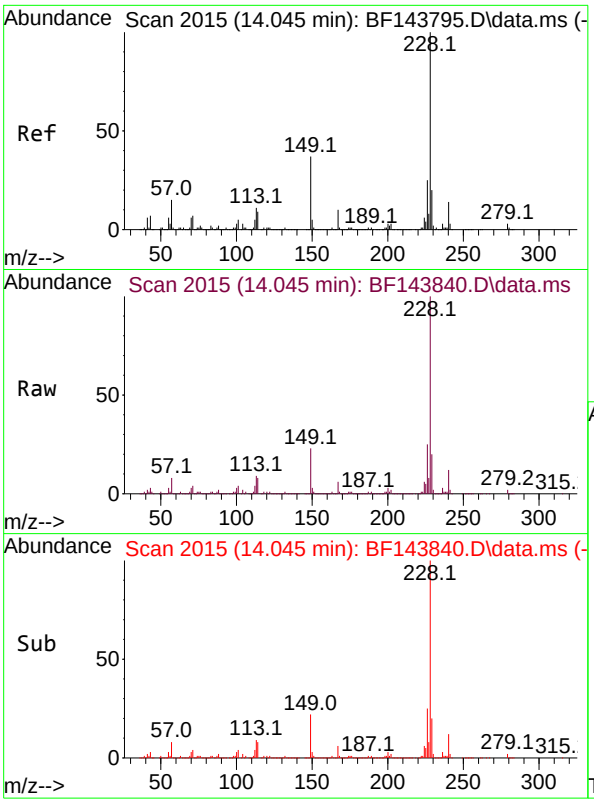


#80
Butylbenzylphthalate
Concen: 56.626 ng
RT: 13.474 min Scan# 1918
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:149 Resp: 411811

Ion	Ratio	Lower	Upper
149	100		
91	72.1	59.5	89.3
206	21.4	16.1	24.1



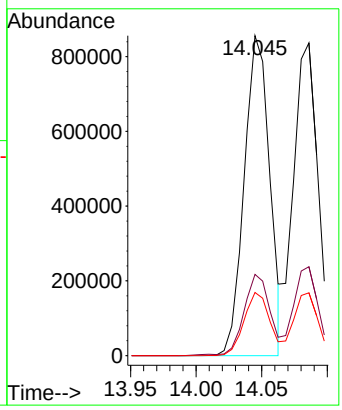


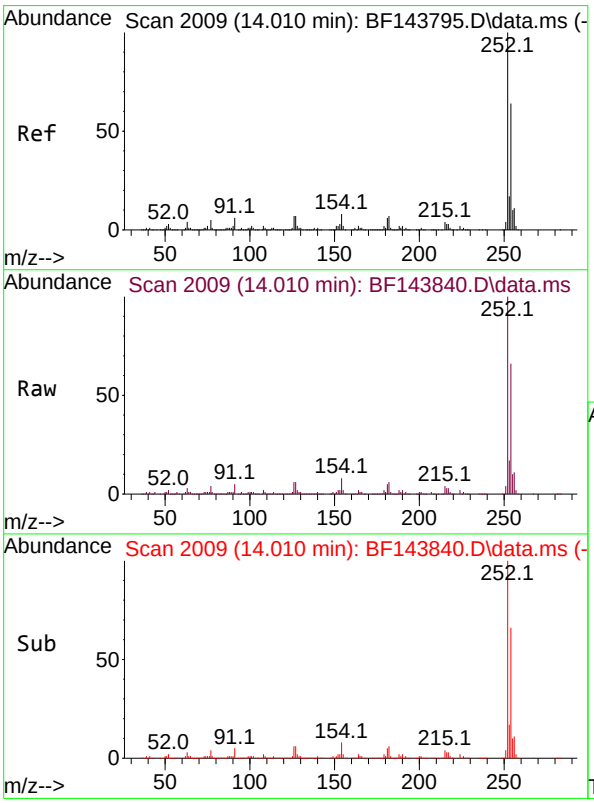
#81
Benzo(a)anthracene
Concen: 50.256 ng
RT: 14.045 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:228 Resp: 1154327

Ion	Ratio	Lower	Upper
228	100		
226	25.4	20.2	30.2
229	19.7	16.1	24.1

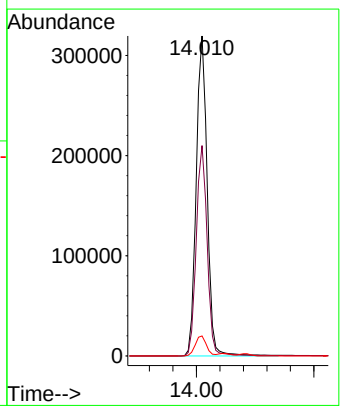


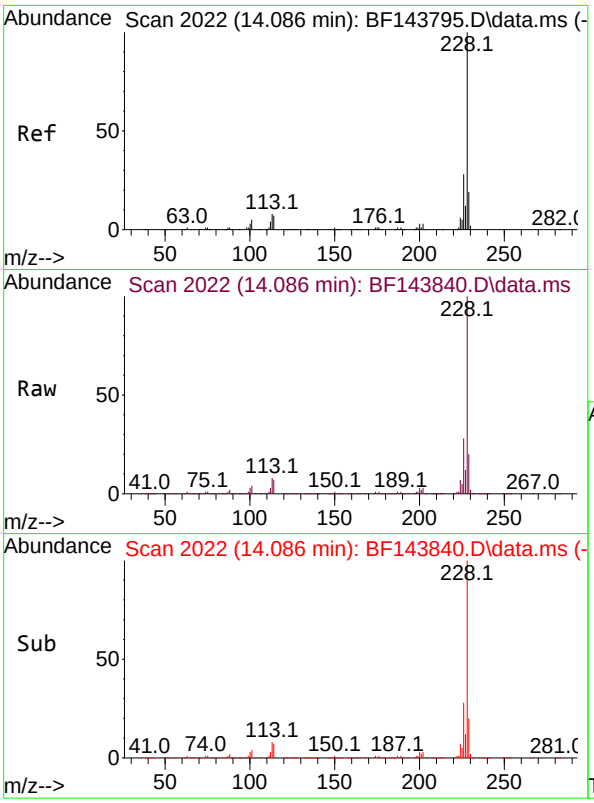


#82
3,3'-Dichlorobenzidine
Concen: 41.502 ng
RT: 14.010 min Scan# 2009
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:252 Resp: 412972

Ion	Ratio	Lower	Upper
252	100		
254	65.7	51.5	77.3
126	6.2	5.4	8.2



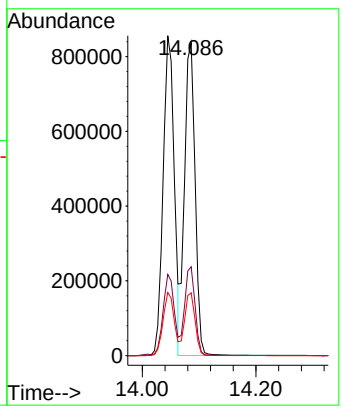


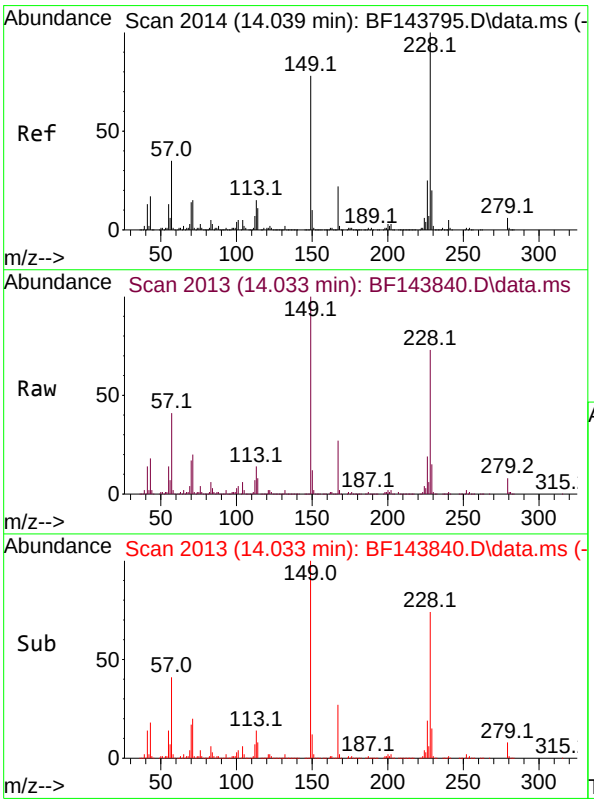
#83
Chrysene
Concen: 52.559 ng
RT: 14.086 min Scan# 20
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:228 Resp: 1092366

Ion	Ratio	Lower	Upper
228	100		
226	28.4	22.6	33.8
229	20.1	15.6	23.4

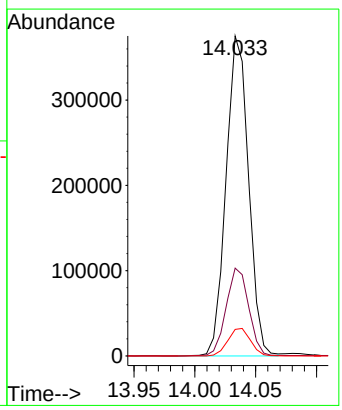


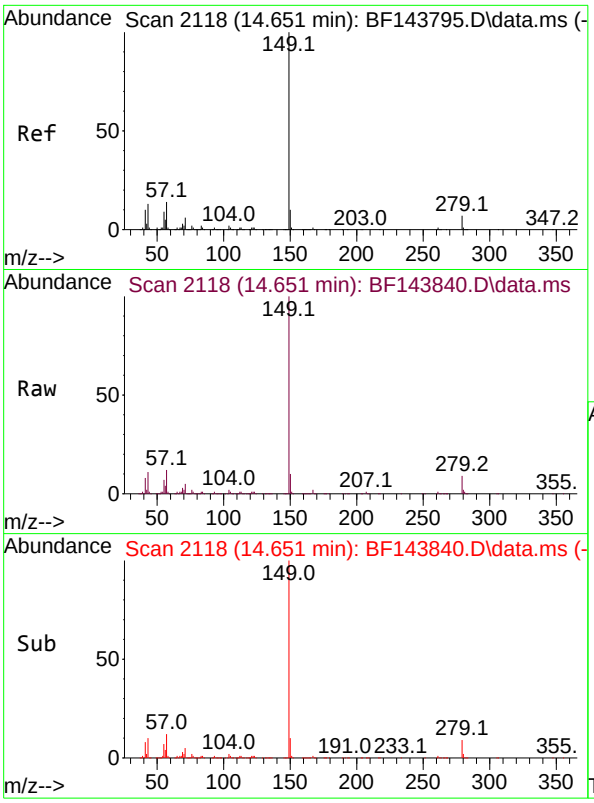


#84
Bis(2-ethylhexyl)phthalate
Concen: 45.272 ng
RT: 14.033 min Scan# 2013
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:149 Resp: 482590

Ion	Ratio	Lower	Upper
149	100		
167	27.4	22.2	33.2
279	8.3	6.0	9.0



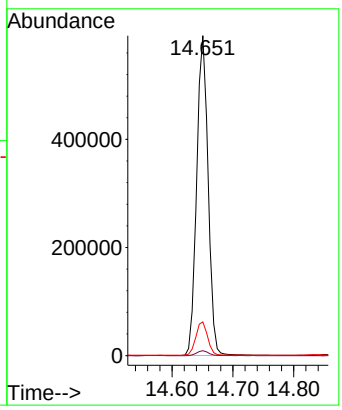


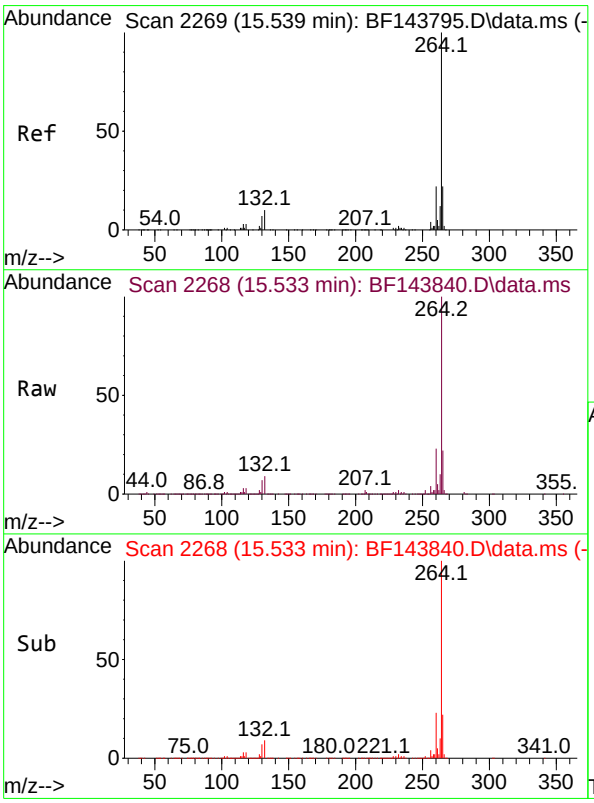
#85
Di-n-octyl phthalate
Concen: 40.009 ng
RT: 14.651 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:149 Resp: 773621

Ion	Ratio	Lower	Upper
149	100		
167	1.6	1.1	1.7
43	10.8	10.7	16.1

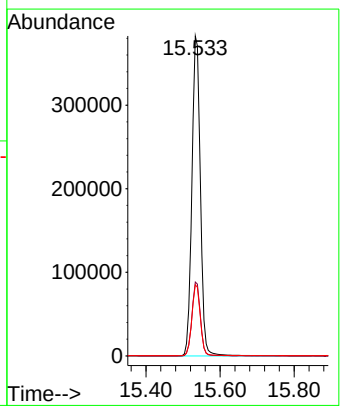


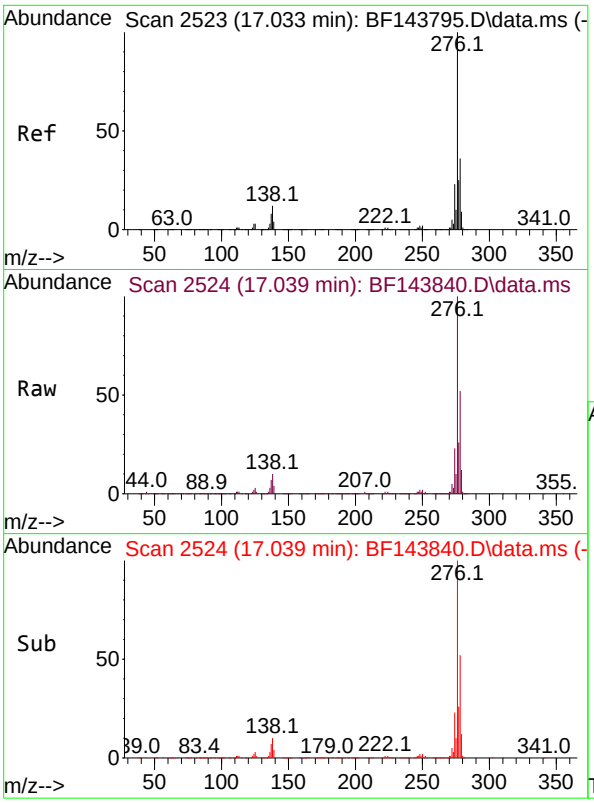


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.533 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:264 Resp: 608800

Ion	Ratio	Lower	Upper
264	100		
260	23.1	17.9	26.9
265	22.3	17.7	26.5



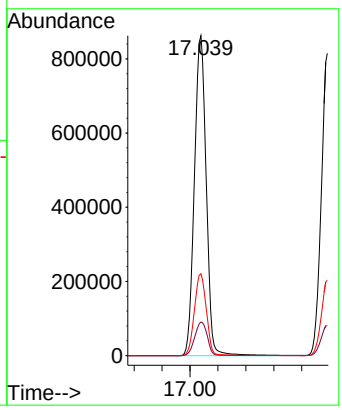


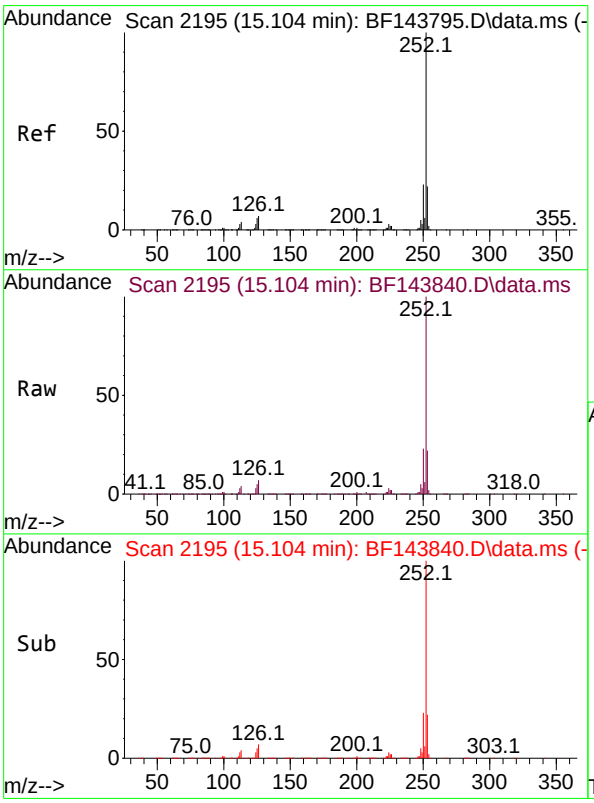
#87
Indeno(1,2,3-cd)pyrene
Concen: 54.738 ng
RT: 17.039 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:276 Resp: 2528473

Ion	Ratio	Lower	Upper
276	100		
138	11.1	10.6	15.8
277	25.8	20.7	31.1

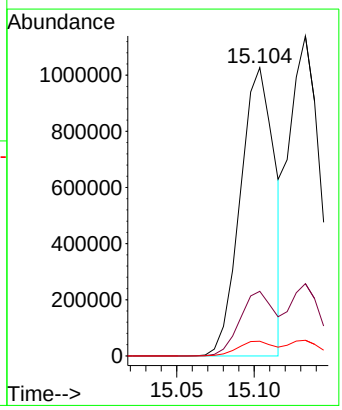


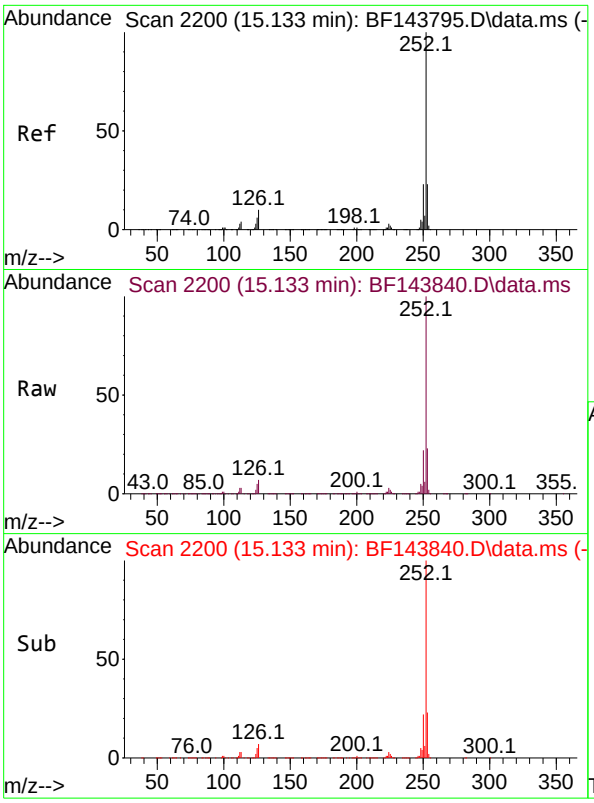


#88
Benzo(b)fluoranthene
Concen: 51.190 ng
RT: 15.104 min Scan# 2195
Delta R.T. -0.000 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:252 Resp: 1587051

Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.8	26.8
125	5.1	4.4	6.6



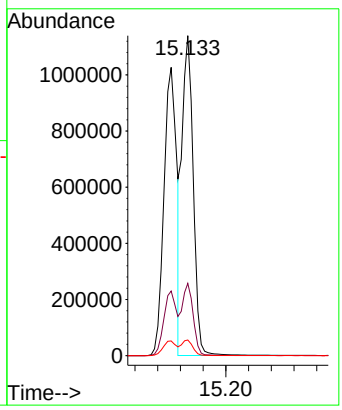


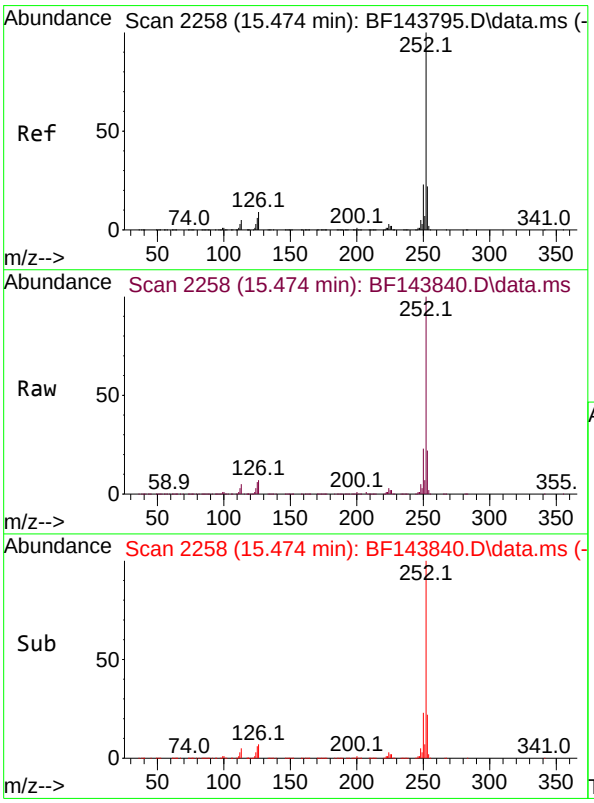
#89
Benzo(k)fluoranthene
Concen: 50.798 ng
RT: 15.133 min Scan# 2
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:252 Resp: 1582239

Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.9	26.9
125	4.9	4.6	6.8

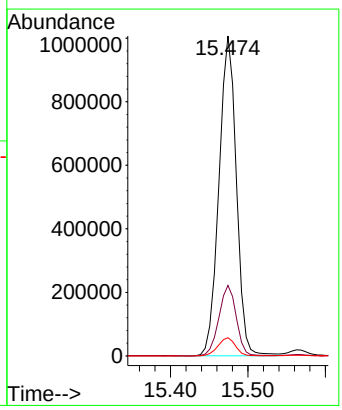


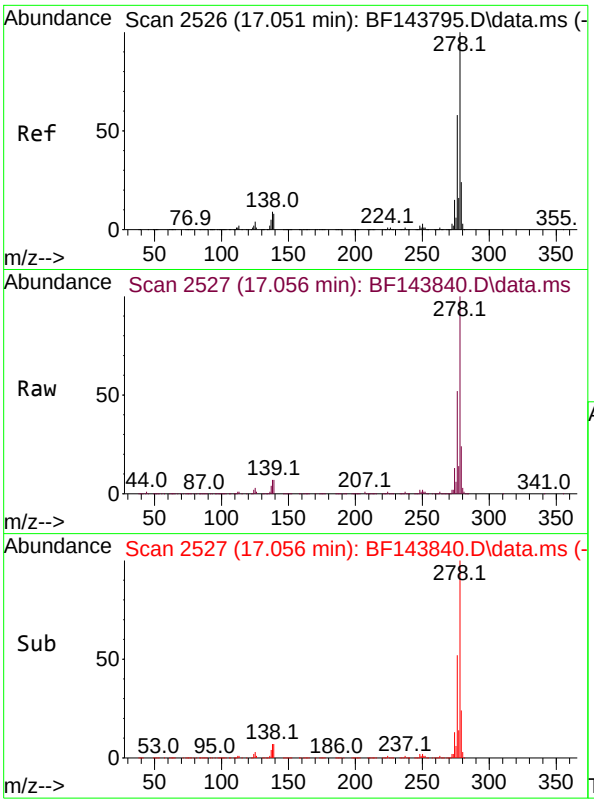


#90
Benzo(a)pyrene
Concen: 54.021 ng
RT: 15.474 min Scan# 2258
Delta R.T. -0.006 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:252 Resp: 1574313

Ion	Ratio	Lower	Upper
252	100		
253	22.0	17.6	26.4
125	5.7	5.0	7.4



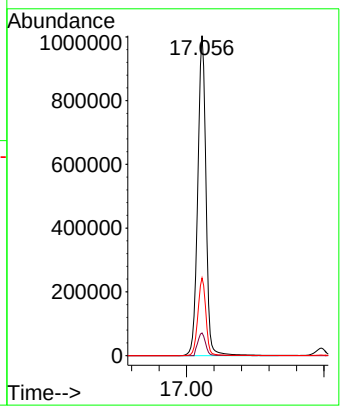


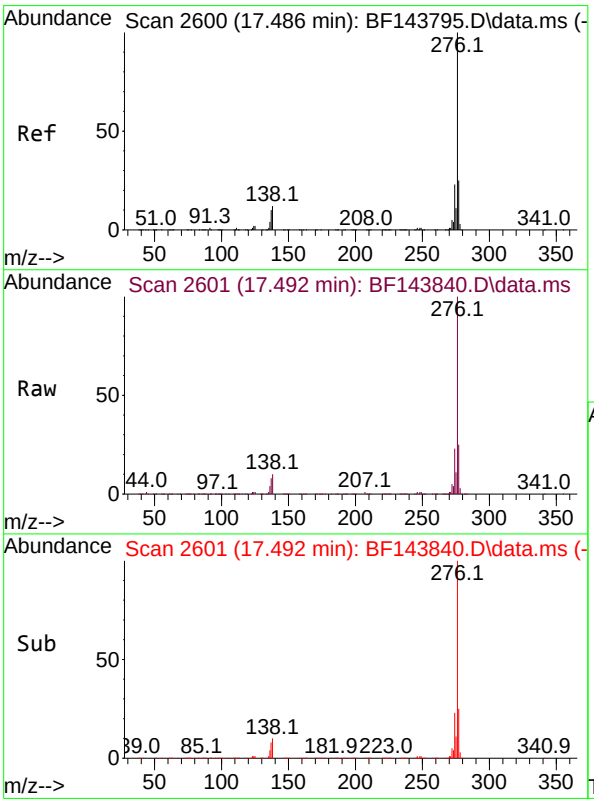
#91
Dibenzo(a,h)anthracene
Concen: 54.888 ng
RT: 17.056 min Scan# 2
Delta R.T. -0.012 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Instrument :
BNA_F
ClientSampleId :
EME-TS14-01MSD

Tgt Ion:278 Resp: 2073724

Ion	Ratio	Lower	Upper
278	100		
139	7.1	6.7	10.1
279	24.3	19.3	28.9

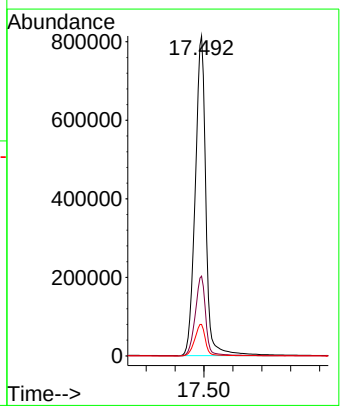




#92
Benzo(g,h,i)perylene
Concen: 57.051 ng
RT: 17.492 min Scan# 2601
Delta R.T. -0.012 min
Lab File: BF143840.D
Acq: 30 Sep 2025 18:35

Tgt Ion:276 Resp: 2077796

Ion	Ratio	Lower	Upper
276	100		
277	24.9	19.6	29.4
138	9.8	9.2	13.8



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Manual Integration Report

Sequence:	BF092325	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC020	BF143794.D	Phenol	Rahul	9/24/2025 8:52:43 AM	Jagrut	9/24/2025 9:38:18 AM	Peak Integrated by Software
SSTDICCC040	BF143795.D	Phenol	Rahul	9/24/2025 8:52:46 AM	Jagrut	9/24/2025 9:38:20 AM	Peak Integrated by Software
SSTDICC050	BF143796.D	Phenol	Rahul	9/24/2025 8:52:48 AM	Jagrut	9/24/2025 9:38:23 AM	Peak Integrated by Software
SSTDICC060	BF143797.D	Phenol	Rahul	9/24/2025 8:52:51 AM	Jagrut	9/24/2025 9:38:25 AM	Peak Integrated by Software
SSTDICC080	BF143798.D	Phenol	Rahul	9/24/2025 8:52:54 AM	Jagrut	9/24/2025 9:38:28 AM	Peak Integrated by Software
SSTDICV040	BF143799.D	Phenol	Rahul	9/24/2025 8:52:56 AM	Jagrut	9/24/2025 9:38:31 AM	Peak Integrated by Software

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Manual Integration Report

Sequence:	Bf093025	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
PB169880BS	BF143832.D	Caprolactam	Rahul	10/1/2025 9:14:49 AM	Jagrut	10/1/2025 10:57:52 AM	Peak Integrated by Software

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF092325

Review By	Rahul	Review On	9/24/2025 8:53:16 AM		
Supervise By	Jagrut	Supervise On	9/24/2025 9:38:53 AM		
SubDirectory	BF092325	HP Acquire Method	BNA_F	HP Processing Method	bf092325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13175,10ul/1000ul sample
ICV/I.BLK	SP6872
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF143790.D	23 Sep 2025 09:31	RC/JU	Ok
2	SSTDICC2.5	BF143791.D	23 Sep 2025 10:28	RC/JU	Ok
3	SSTDICC005	BF143792.D	23 Sep 2025 10:58	RC/JU	Ok
4	SSTDICC010	BF143793.D	23 Sep 2025 11:57	RC/JU	Ok
5	SSTDICC020	BF143794.D	23 Sep 2025 12:27	RC/JU	Ok,M
6	SSTDICCC040	BF143795.D	23 Sep 2025 13:59	RC/JU	Ok,M
7	SSTDICC050	BF143796.D	23 Sep 2025 14:28	RC/JU	Ok,M
8	SSTDICC060	BF143797.D	23 Sep 2025 14:58	RC/JU	Ok,M
9	SSTDICC080	BF143798.D	23 Sep 2025 15:27	RC/JU	Ok,M
10	SSTDICV040	BF143799.D	23 Sep 2025 17:42	RC/JU	Ok,M
11	PB169751BL	BF143800.D	23 Sep 2025 18:11	RC/JU	Ok

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF093025

Review By	Rahul	Review On	10/1/2025 9:16:10 AM				
Supervise By	Jagrut	Supervise On	10/1/2025 10:58:19 AM				
SubDirectory	BF093025	HP Acquire Method	BNA_F		HP Processing Method	bf092325	

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13176,10ul/1000ul sample
ICV/I.BLK	SP6872
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF143829.D	30 Sep 2025 12:36	RC/JU	Ok
2	SSTDCCC040	BF143830.D	30 Sep 2025 13:36	RC/JU	Ok
3	PB169880BL	BF143831.D	30 Sep 2025 14:05	RC/JU	Ok
4	PB169880BS	BF143832.D	30 Sep 2025 14:34	RC/JU	Ok,M
5	PB169880TB	BF143833.D	30 Sep 2025 15:04	RC/JU	Ok
6	SP6874	BF143834.D	30 Sep 2025 15:33	RC/JU	Ok
7	Q3177-01	BF143835.D	30 Sep 2025 16:07	RC/JU	Ok
8	Q3177-02	BF143836.D	30 Sep 2025 16:37	RC/JU	Ok
9	Q3177-03	BF143837.D	30 Sep 2025 17:06	RC/JU	Ok
10	Q3179-01	BF143838.D	30 Sep 2025 17:36	RC/JU	Ok
11	Q3179-02MS	BF143839.D	30 Sep 2025 18:05	RC/JU	Ok
12	Q3179-03MSD	BF143840.D	30 Sep 2025 18:35	RC/JU	Ok
13	Q3231-04	BF143841.D	30 Sep 2025 19:04	RC/JU	Ok
14	Q3231-04MS	BF143842.D	30 Sep 2025 19:34	RC/JU	Ok,M
15	Q3231-04MSD	BF143843.D	30 Sep 2025 20:03	RC/JU	Ok,M
16	Q3231-08	BF143844.D	30 Sep 2025 20:33	RC/JU	Ok,M
17	Q3231-12	BF143845.D	30 Sep 2025 21:03	RC/JU	Ok,M
18	Q3245-01	BF143846.D	30 Sep 2025 21:32	RC/JU	Ok
19	Q3245-09	BF143847.D	30 Sep 2025 22:01	RC/JU	Ok
20	Q3245-09MS	BF143848.D	30 Sep 2025 22:31	RC/JU	Ok
21	Q3245-09MSD	BF143849.D	30 Sep 2025 23:00	RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF093025

Review By	Rahul	Review On	10/1/2025 9:16:10 AM				
Supervise By	Jagrut	Supervise On	10/1/2025 10:58:19 AM				
SubDirectory	BF093025	HP Acquire Method	BNA_F		HP Processing Method	bf092325	

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13176,10ul/1000ul sample
ICV/I.BLK	SP6872
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

22	Q3245-17	BF143850.D	30 Sep 2025 23:30	RC/JU	Ok
23	Q3240-01	BF143851.D	30 Sep 2025 23:59	RC/JU	Ok,M

M : Manual Integration

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF092325

Review By	Rahul	Review On	9/24/2025 8:53:16 AM		
Supervise By	Jagrut	Supervise On	9/24/2025 9:38:53 AM		
SubDirectory	BF092325	HP Acquire Method	BNA_F	HP Processing Method	bf092325

STD. NAME	STD REF.#
Tune/Reschk	SP6757
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13175,10ul/1000ul sample
ICV/I.BLK	SP6872
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF143790.D	23 Sep 2025 09:31		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF143791.D	23 Sep 2025 10:28		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF143792.D	23 Sep 2025 10:58		RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF143793.D	23 Sep 2025 11:57		RC/JU	Ok
5	SSTDICC020	SSTDICC020	BF143794.D	23 Sep 2025 12:27		RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF143795.D	23 Sep 2025 13:59	Compound #26,57 kept on LR & #54,65 kept on QR	RC/JU	Ok,M
7	SSTDICC050	SSTDICC050	BF143796.D	23 Sep 2025 14:28		RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF143797.D	23 Sep 2025 14:58		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF143798.D	23 Sep 2025 15:27		RC/JU	Ok,M
10	SSTDICV040	ICVBF092325	BF143799.D	23 Sep 2025 17:42		RC/JU	Ok,M
11	PB169751BL	PB169751BL	BF143800.D	23 Sep 2025 18:11		RC/JU	Ok

M : Manual Integration

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Fax : 908 789 8922

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF093025

Review By	Rahul	Review On	10/1/2025 9:16:10 AM		
Supervise By	Jagrut	Supervise On	10/1/2025 10:58:19 AM		
SubDirectory	BF093025	HP Acquire Method	BNA_F	HP Processing Method	bf092325

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13176,10ul/1000ul sample
ICV/I.BLK	SP6872
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleId	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF143829.D	30 Sep 2025 12:36		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF143830.D	30 Sep 2025 13:36		RC/JU	Ok
3	PB169880BL	PB169880BL	BF143831.D	30 Sep 2025 14:05		RC/JU	Ok
4	PB169880BS	PB169880BS	BF143832.D	30 Sep 2025 14:34		RC/JU	Ok,M
5	PB169880TB	PB169880TB	BF143833.D	30 Sep 2025 15:04		RC/JU	Ok
6	SP6874	SP6874	BF143834.D	30 Sep 2025 15:33		RC/JU	Ok
7	Q3177-01	EME-TS12-01	BF143835.D	30 Sep 2025 16:07		RC/JU	Ok
8	Q3177-02	EME-TS13-01	BF143836.D	30 Sep 2025 16:37		RC/JU	Ok
9	Q3177-03	EME-TS14-02	BF143837.D	30 Sep 2025 17:06		RC/JU	Ok
10	Q3179-01	EME-TS14-01	BF143838.D	30 Sep 2025 17:36		RC/JU	Ok
11	Q3179-02MS	EME-TS14-01MS	BF143839.D	30 Sep 2025 18:05		RC/JU	Ok
12	Q3179-03MSD	EME-TS14-01MSD	BF143840.D	30 Sep 2025 18:35		RC/JU	Ok
13	Q3231-04	WC-1	BF143841.D	30 Sep 2025 19:04		RC/JU	Ok
14	Q3231-04MS	WC-1MS	BF143842.D	30 Sep 2025 19:34		RC/JU	Ok,M
15	Q3231-04MSD	WC-1MSD	BF143843.D	30 Sep 2025 20:03		RC/JU	Ok,M
16	Q3231-08	WC-2	BF143844.D	30 Sep 2025 20:33		RC/JU	Ok,M
17	Q3231-12	WC-3	BF143845.D	30 Sep 2025 21:03		RC/JU	Ok,M
18	Q3245-01	13-1	BF143846.D	30 Sep 2025 21:32		RC/JU	Ok

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Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QCBatch ID # BF093025

Review By	Rahul	Review On	10/1/2025 9:16:10 AM		
Supervise By	Jagrut	Supervise On	10/1/2025 10:58:19 AM		
SubDirectory	BF093025	HP Acquire Method	BNA_F	HP Processing Method	bf092325

STD. NAME	STD REF.#
Tune/Reschk	SP6875
Initial Calibration Stds	SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864
CCC	SP6860
Internal Standard/PEM	S13176,10ul/1000ul sample
ICV/I.BLK	SP6872
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

19	Q3245-09	12-8	BF143847.D	30 Sep 2025 22:01		RC/JU	Ok
20	Q3245-09MS	12-8MS	BF143848.D	30 Sep 2025 22:31		RC/JU	Ok
21	Q3245-09MSD	12-8MSD	BF143849.D	30 Sep 2025 23:00		RC/JU	Ok
22	Q3245-17	12-1	BF143850.D	30 Sep 2025 23:30		RC/JU	Ok
23	Q3240-01	OK-02-092925	BF143851.D	30 Sep 2025 23:59		RC/JU	Ok,M

M : Manual Integration

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB169818

SOP ID : M1312-SPLP-10

SDG No : N/A

Weigh By : JP

Balance ID : WC SC-7

pH Meter ID : WC PH METER-1

Extraction By : JP

Filter By : JP

Pippete ID : WC

Tumbler ID : T-2

TCLP Filter ID : 40819719

Start Prep Date : 09/24/2025 **Time :** 14:30

End Prep Date : 09/25/2025 **Time :** 08:10

Combination Ratio : 20

ZHE Cleaning Batch : ~~N/A~~ 10

Initial Room Temperature: 24 °C

Final Room Temperature: 22 °C

TCLP Technician Signature : JP

Supervisor By : 12

Standared Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
SPLP FLUID	WP114530	N/A
N/A	N/A	N/A
HNO3-TCLP,1N	N/A	WP114528
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1940,W1941,W1942	W3166,W1938,W1939,
1 Liter Amber	N/A	90924-08
120ml Plastic bottle	N/A	2738
1:1 HNO3	N/A	MP86978

Extraction Conformance/Non-Conformance Comments:

TUMBLER T-2 checked,30 rpm. Matrix spikes are added after fiftration and before preservation.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/25/25 10:00	JP / [illegible]	SKJ. RJ / Ext
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB169818

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB169818TB	LEB818	15	N/A	2000	N/A	N/A	N/A	4.24	1.5	T-2
Q3177-01	EME-TS12-01	11	100.02	2000	N/A	N/A	N/A	7.2	1.0	T-2
Q3177-02	EME-TS13-01	12	100.03	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q3177-03	EME-TS14-02	13	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q3179-01	EME-TS14-01	14	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-2
Q3179-02	EME-TS14-01MS	14	100.02	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q3179-03	EME-TS14-01MSD	14	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-2

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB169818TB	LEB818	N/A	N/A	N/A	N/A	N/A	N/A
Q3177-01	EME-TS12-01	N/A	N/A	N/A	N/A	100	N/A
Q3177-02	EME-TS13-01	N/A	N/A	N/A	N/A	100	N/A
Q3177-03	EME-TS14-02	N/A	N/A	N/A	N/A	100	N/A
Q3179-01	EME-TS14-01	N/A	N/A	N/A	N/A	100	N/A
Q3179-02	EME-TS14-01MS	N/A	N/A	N/A	N/A	100	N/A
Q3179-03	EME-TS14-01MSD	N/A	N/A	N/A	N/A	100	N/A

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SPLP Fluid Determination

PB169818

Hot Block ID : WC S-1 / WC S-2

Thermometer ID : FLASHPOINT

SampleID	ClientID	Sample Weight (g)	Volume DI Water (mL)	PH after 5 min stir	PH after 10 min stir	Extraction Fluid 1 or 2	pH Extraction Fluid
PB169818TB	LEB818	N/A	N/A	N/A	N/A	#1	4.24
Q3177-01	EME-TS12-01	N/A	N/A	N/A	N/A	#1	4.24
Q3177-02	EME-TS13-01	N/A	N/A	N/A	N/A	#1	4.24
Q3177-03	EME-TS14-02	N/A	N/A	N/A	N/A	#1	4.24
Q3179-01	EME-TS14-01	N/A	N/A	N/A	N/A	#1	4.24
Q3179-02	EME-TS14-01MS	N/A	N/A	N/A	N/A	#1	4.24
Q3179-03	EME-TS14-01MSD	N/A	N/A	N/A	N/A	#1	4.24

WORKLIST(Hardcopy Internal Chain)

WorkList Name : splp q3177 **WorkList ID :** 192051 **Department :** TCLP Extraction **Date :** 09-24-2025 13:40:41

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3177-01	EME-TS12-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J23	09/23/2025	1312
Q3177-02	EME-TS13-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J23	09/23/2025	1312
Q3177-03	EME-TS14-02	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J23	09/23/2025	1312
Q3179-01	EME-TS14-01	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J23	09/23/2025	1312
Q3179-02	EME-TS14-01MS	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J42	09/23/2025	1312
Q3179-03	EME-TS14-01MSD	Solid	SPLP Extraction	Cool 4 deg C	ROYF02	J42	09/23/2025	1312

Date/Time 09/24/25 13:45
Raw Sample Received by: JB WC
Raw Sample Relinquished by: ITCSM

Date/Time 09/24/25 16:00
Raw Sample Received by: ITCSM
Raw Sample Relinquished by: JB WC

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PB169880

SOP ID: M3510C,3580A-Extraction SVOC-21

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3953

Extraction By: RJ

Filter By: RJ

pH Meter ID: N/A

Hood ID: 3,7

Extraction Start Date : 09/29/2025

Extraction Start Time : 08:42

Extraction End Date : 09/29/2025

Extraction End Time : 13:55

Concentration By: EH

Supervisor By : ritesh

Extraction Method: [√] Seperatory Funnel [_] Continious Liquid/Liquid [_] Sonication [_] Waste Dilution [_] Soxhlet

Standared Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6865
Surrogate	1.0ML	100/150 PPM	SP6869
N/A	N/A	N/A	N/A
N/A	1.0ML	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
Methylene Chloride	N/A	E3973
Baked Na2SO4	N/A	EP2646
H2SO4 1:1	N/A	EP2610
10N NaoH	N/A	EP2609
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:

PH Adjusted TO <2 with 1:1 H2SO4 & >11with 10N NAOH ,1.5ML Vial Lot #2210443.

KD Bath ID: WATER BATH-1,2

KD Bath Temperature: 60 °C

Envap ID: NEVAP-02

Envap Temperature: 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
9/29/25	RJ (EXT-Lab)	RclSVOC
14:00	**Preparation Group**	**Analysis Group**

Alliance TECHNICAL GROUP

EXTRACTION LOGPAGE

PrepBatch ID : PB169880

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 09/29/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB169880BL	PB169880BL	SPLP BNA	1000	6	ritesh	Evelyn	1			SEP-1
PB169880BS	PB169880BS	SPLP BNA	1000	6	ritesh	Evelyn	1			2
PB169880TB	PB169880TB	SPLP BNA	1000	6	ritesh	Evelyn	1			3
Q3177-01	EME-TS12-01	SPLP BNA	1000	6	ritesh	Evelyn	1	A		4
Q3177-02	EME-TS13-01	SPLP BNA	1000	6	ritesh	Evelyn	1	A		5
Q3177-03	EME-TS14-02	SPLP BNA	1000	6	ritesh	Evelyn	1	A		6
Q3179-01	EME-TS14-01	SPLP BNA	1000	6	ritesh	Evelyn	1	A		7
Q3179-02	EME-TS14-01MS	SPLP BNA	1000	6	ritesh	Evelyn	1	A		8
Q3179-03	EME-TS14-01MSD	SPLP BNA	1000	6	ritesh	Evelyn	1	A		9

RJ
9/29

* **Extracts relinguished on the same date as received.**

Alliance TECHNICAL GROUP

SPLP EXTRACTION LOGPAGE

PB169818

Sample ID	ClientID	TCLP Vessel ID	Sample Wt (g)	Volume Extraction Fluid #1 (mL)	Multi phasic	Phase Miscible	Phases Combined	Final Leachate PH	Metals Leachate Adj. PH	Prep Pos
PB169818TB	LEB818	15	N/A	2000	N/A	N/A	N/A	4.24	1.5	T-2
Q3177-01	EME-TS12-01	11	100.02	2000	N/A	N/A	N/A	7.2	1.0	T-2
Q3177-02	EME-TS13-01	12	100.03	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q3177-03	EME-TS14-02	13	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-2
Q3179-01	EME-TS14-01	14	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-2
Q3179-02	EME-TS14-01MS	14	100.02	2000	N/A	N/A	N/A	7.6	1.5	T-2
Q3179-03	EME-TS14-01MSD	14	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-2

6 9/25/25
10:00

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Prep Standard - Chemical Standard Summary

Order ID : Q3177

Test : SPLP BNA

Prepbatch ID : PB169880,

Sequence ID/Qc Batch ID: Bf093025,

Standard ID :
EP2609,EP2610,EP2646,SP6856,SP6857,SP6858,SP6859,SP6860,SP6861,SP6862,SP6863,SP6864,SP6865,SP6869,SP6871,SP6872,SP6875,

Chemical ID :
10ul/1000ul sample,E3657,E3875,E3932,E3954,E3965,E3973,M6157,S11073,S11484,S11652,S11807,S11808,S12197,S12199,S12200,S12201,S12220,S12221,S12245,S12306,S12307,S12507,S12508,S12552,S12553,S12554,S12555,S12556,S12557,S12558,S12559,S12560,S12577,S12739,S12776,S12903,S12904,S12905,S13089,S13090,S13091,S13092,S13093,S13094,S13095,S13096,S13097,S13118,S13119,S13120,S13149,S13160,S13170,S13175,S13176,S13207,S13214,S13233,S13239,S13240,S13241,S13242,S13243,S13244,S13269,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	EP2609	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025

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	EP2610	05/07/2025	11/07/2025	RUPESHKUMAR SHAH	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 05/07/2025

FROM 1000.00000ml of M6157 + 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	EP2646	09/26/2025	01/28/2026	Evelyn Huang	Extraction_SCALE_2 (EX-SC-2)	None	Riteshkumar Patel 09/26/2025

FROM 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4215	New 8270E/625.1 ICAL Stock Solution 100 ng	SP6856	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.04000ml of S13207 + 0.20000ml of S12197 + 0.30000ml of S12306 + 0.40000ml of S12220 + 0.50000ml of S11807 + 0.50000ml of S12245 + 0.50000ml of S12776 + 0.50000ml of S13214 + 0.50000ml of S13233 + 0.70000ml of S12307 + 1.00000ml of S12739 + 4.86000ml of E3954 = Final Quantity: 10.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4216	80ng ICC	SP6857	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.20000ml of E3954 + 0.80000ml of SP6856 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4217	60ng ICC	SP6858	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.40000ml of E3954 + 0.60000ml of SP6856 = 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
4218	50ng ICC	SP6859	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.50000ml of E3954 + 0.50000ml of SP6856 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4219	40ng ICC	SP6860	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.60000ml of E3954 + 0.40000ml of SP6856 = 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
4220	20ng ICC	SP6861	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.80000ml of E3954 + 0.20000ml of SP6856 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4221	10ng ICC	SP6862	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.75000ml of E3954 + 0.25000ml of SP6860 = 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
4222	5ng ICC	SP6863	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.87500ml of E3954 + 0.12500ml of SP6860 = Final Quantity: 1.010 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4223	2.5ng ICC	SP6864	08/12/2025	12/16/2025	Jagrut Upadhyay	None	None	mohammad ahmed 08/22/2025

FROM 0.01000ml of S13170 + 0.50000ml of E3954 + 0.50000ml of SP6863 = 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
171	8270/625 Spike Solution, 50/100 PPM	SP6865	08/25/2025	10/30/2025	Jagrut Upadhyay	None	None	Rahul Chavli 08/26/2025

FROM 0.40000ml of S11484 + 0.40000ml of S11652 + 0.40000ml of S12552 + 0.40000ml of S13149 + 0.40000ml of S13160 + 0.40000ml of S13207 + 0.90000ml of S12507 + 0.90000ml of S13089 + 1.10000ml of S13120 + 1.20000ml of S12553 + 1.20000ml of S12554 + 1.20000ml of S12555 + 1.20000ml of S12556 + 1.20000ml of S12557 + 1.20000ml of S12558 + 1.20000ml of S12559 + 1.20000ml of S13269 + 1.30000ml of S11808 + 1.30000ml of S12508 + 1.30000ml of S13090 + 1.30000ml of S13091 + 1.30000ml of S13092 + 1.30000ml of S13093 + 1.30000ml of S13094 + 1.30000ml of S13095 + 1.30000ml of S13096 + 1.30000ml of S13118 + 1.30000ml of S13119 + 1.30000ml of S13239 + 1.30000ml of S13240 + 1.30000ml of S13241 + 1.30000ml of S13242 + 1.30000ml of S13243 + 1.30000ml of S13244 + 163.00000ml of E3932 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
19	8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID	SP6869	09/10/2025	01/02/2026	Jagrut Upadhyay	None	None	Rahul Chavli 09/16/2025

FROM 3.00000ml of S12197 + 3.00000ml of S12220 + 5.60000ml of S12221 + 5.60000ml of S12903 + 5.80000ml of S12904 + 6.00000ml of S12199 + 6.00000ml of S12200 + 965.00000ml of E3965 = Final Quantity: 1000.000 ml

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SVOC STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
18	Second Source Calibration Stock Standard, 100 PPM, (8270/625/CLP)	SP6871	09/22/2025	11/16/2025	Jagrut Upadhyay	None	None	Yogesh Patel 09/27/2025

FROM 0.04000ml of S12201 + 0.08000ml of S12905 + 0.10000ml of S11073 + 0.20000ml of S12560 + 0.20000ml of S13097 + 0.20000ml of S13244 + 1.18000ml of E3973 = Final Quantity: 2.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
416	40 ng BNA ICV, 40 PPM	SP6872	09/22/2025	11/16/2025	Jagrut Upadhyay	None	None	Yogesh Patel 09/27/2025

FROM 0.01000ml of S13175 + 0.60000ml of E3973 + 0.40000ml of SP6871 = 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	SP6875	09/30/2025	03/30/2026	Rahul Chavli	None	None	Jagrut Upadhyay 09/30/2025

FROM 1.00000ml of S12577 + 19.00000ml of E3973 = Final Quantity: 20.000 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.	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 #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	417203	01/28/2026	07/28/2025 / RUPESH	01/29/2025 / Rajesh	E3875

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	11/05/2025	05/05/2025 / RUPESH	04/23/2025 / RUPESH	E3932

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25B1862001	03/19/2026	07/14/2025 / RUPESH	06/11/2025 / RUPESH	E3954

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	05/24/2027	08/22/2025 / RUPESH	08/20/2025 / RUPESH	E3965

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)	25C1262005	04/16/2026	09/15/2025 / Riteshkumar	09/15/2025 / Riteshkumar	E3973

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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-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	24i1262013	11/07/2025	05/07/2025 / RUPESH	02/18/2025 / Mohan	M6157

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0187043	11/16/2025	05/16/2025 / Jagrut	02/06/2023 / Christian	S11073

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3]	A0200549	10/30/2025	04/30/2025 / Rahul	08/10/2023 / yogesh	S11484

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	01/30/2026	07/30/2025 / Rahul	11/09/2023 / Yogesh	S11652

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0200655	01/01/2026	07/01/2025 / Rahul	11/21/2023 / rahul	S11807

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0200655	02/25/2026	08/25/2025 / Jagrut	11/21/2023 / rahul	S11808

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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	A0206206	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12197

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	03/10/2026	09/10/2025 / Jagrut	03/15/2024 / Rahul	S12199

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	03/10/2026	09/10/2025 / Jagrut	03/15/2024 / Rahul	S12200

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0206206	03/22/2026	09/22/2025 / Jagrut	03/15/2024 / Rahul	S12201

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	01/02/2026	07/02/2025 / Jagrut	03/15/2024 / Rahul	S12220

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0206381	03/10/2026	09/10/2025 / Jagrut	03/15/2024 / Rahul	S12221

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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	30409 / Pyridine, 2000 PPM in P & T Methanol	A0206650	12/16/2025	06/16/2025 / Jagrut	05/14/2024 / Rahul	S12245

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31902 / CLP/SVOA Additions Mix (Atrazine, Benzaldehyde, Caprolactam) 1000ug/mL	A0206859	01/31/2026	08/12/2025 / Jagrut	05/30/2024 / Rahul	S12306

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31902 / CLP/SVOA Additions Mix (Atrazine, Benzaldehyde, Caprolactam) 1000ug/mL	A0206859	01/31/2026	08/12/2025 / Jagrut	05/30/2024 / Rahul	S12307

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	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12507

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	02/25/2026	08/25/2025 / Jagrut	07/23/2024 / RAHUL	S12508

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	01/01/2026	07/01/2025 / Rahul	07/23/2024 / RAHUL	S12552

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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	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	02/25/2026	08/25/2025 / Jagrut	07/23/2024 / RAHUL	S12553

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	02/25/2026	08/25/2025 / Jagrut	07/23/2024 / RAHUL	S12554

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	02/25/2026	08/25/2025 / Jagrut	07/23/2024 / RAHUL	S12555

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	02/25/2026	08/25/2025 / Jagrut	07/23/2024 / RAHUL	S12556

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	02/25/2026	08/25/2025 / Jagrut	07/23/2024 / RAHUL	S12557

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	02/25/2026	08/25/2025 / Jagrut	07/23/2024 / RAHUL	S12558

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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	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	02/25/2026	08/25/2025 / Jagrut	07/23/2024 / RAHUL	S12559

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555224 / Custom 8270 Plus Std #2 [2nd lot at $85 per ampul if requested - contact ARM with Request] [CS 4978-2]	A0214017	03/22/2026	09/22/2025 / Jagrut	07/23/2024 / RAHUL	S12560

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0212955	06/30/2027	03/31/2025 / Rahul	08/01/2024 / Rahul	S12577

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31900 / SOM01.1 Mega Mix, 500-1000 ug/ml	A0215529	02/12/2026	08/12/2025 / Jagrut	10/08/2024 / anahy	S12739

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Absolute Standards, Inc.	90494 / 1-Methylnaphthalene, 2000 ug/mL, in methylene chloride	061323	02/12/2026	08/12/2025 / Jagrut	11/08/2024 / anahy	S12776

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	A0216785	03/10/2026	09/10/2025 / Jagrut	12/09/2024 / anahy	S12903

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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	31086 / Base Neutral Surrogate 5000ug/ml,CH2Cl2,5ml	A0216785	03/10/2026	09/10/2025 / Jagrut	12/09/2024 / anahy	S12904

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	A0216785	03/22/2026	09/22/2025 / Jagrut	12/09/2024 / anahy	S12905

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]	A0221014	11/30/2025	07/01/2025 / Rahul	05/20/2025 / Rahul	S13089

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]	A0221014	11/30/2025	08/25/2025 / Jagrut	05/20/2025 / Rahul	S13090

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]	A0221014	11/30/2025	08/25/2025 / Jagrut	05/20/2025 / Rahul	S13091

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]	A0221014	11/30/2025	08/25/2025 / Jagrut	05/20/2025 / Rahul	S13092

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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	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0221014	11/30/2025	08/25/2025 / Jagrut	05/20/2025 / Rahul	S13093

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]	A0221014	11/30/2025	08/25/2025 / Jagrut	05/20/2025 / Rahul	S13094

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]	A0221014	11/30/2025	08/25/2025 / Jagrut	05/20/2025 / Rahul	S13095

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]	A0221014	11/30/2025	08/25/2025 / Jagrut	05/20/2025 / Rahul	S13096

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]	A0221014	11/30/2025	09/03/2025 / Jagrut	05/20/2025 / Rahul	S13097

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	A0218894	02/25/2026	08/25/2025 / Jagrut	05/20/2025 / Rahul	S13118

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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	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0218894	02/25/2026	08/25/2025 / Jagrut	05/20/2025 / Rahul	S13119

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	A0218894	02/25/2026	08/25/2025 / Jagrut	05/20/2025 / Rahul	S13120

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2]	A0201702	02/25/2026	08/25/2025 / Jagrut	11/13/2023 / Rahul	S13149

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4]	A0226283	02/25/2026	08/25/2025 / Jagrut	06/04/2025 / Rahul	S13160

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	A0224359	02/11/2026	08/11/2025 / Rahul	06/02/2025 / anahy	S13170

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	A0224359	03/15/2026	09/15/2025 / rahul	06/02/2025 / anahy	S13175

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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	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0224359	03/26/2026	09/26/2025 / Rahul	06/02/2025 / anahy	S13176

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555868 / Custom Standard, Benzidine Std [CS 5328-1]	A0226493	02/12/2026	08/12/2025 / Jagrut	06/11/2025 / anahy	S13207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31879 / Benzoic Acid, 2000 µg/mL, Methylene Chloride, 1 mL/ampul	A0221395	02/12/2026	08/12/2025 / Jagrut	07/10/2025 / anahy	S13214

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	582978 / Custom Calibration Standard - C8 2,000µg/mL, Methylene chloride, 1mL/ampul, Chromatographic, CS-347186	A0228192	02/12/2026	08/12/2025 / Jagrut	08/01/2025 / Rahul	S13233

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]	A0228451	02/25/2026	08/25/2025 / Jagrut	08/06/2025 / Rahul	S13239

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]	A0228451	02/25/2026	08/25/2025 / Jagrut	08/06/2025 / Rahul	S13240

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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	555223 / Custom 8270 Plus Std #1 [2nd lot at $100 per ampul if requested - contact ARM with Request] [CS 4978-1]	A0228451	02/25/2026	08/25/2025 / Jagrut	08/06/2025 / Rahul	S13241

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]	A0228451	02/25/2026	08/25/2025 / Jagrut	08/06/2025 / Rahul	S13242

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]	A0228451	02/25/2026	08/25/2025 / Jagrut	08/06/2025 / Rahul	S13243

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]	A0228451	02/25/2026	08/25/2025 / Jagrut	08/06/2025 / Rahul	S13244

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]	A0228494	02/25/2026	08/25/2025 / Jagrut	08/06/2025 / Rahul	S13269

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

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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 02/06/23 by CG

S11071 to S11075

Catalog No. : 31853 **Lot No.:** A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)		
1	1,4-Dioxane	2,019.0 µg/mL	+/- 11.8486	µg/mL	Gravimetric
	CAS # 123-91-1 (Lot SHBN5929)		+/- 43.2570	µg/mL	Unstressed
	Purity 99%		+/- 44.5129	µg/mL	Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

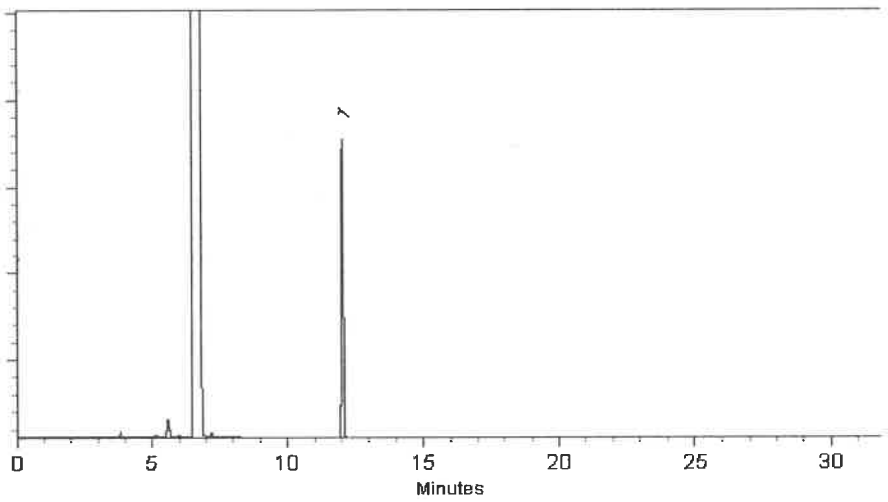
Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022 **Balance:** 1128360905

Marlina Cowan – Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Rec on 8/20/25

E3965

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

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

PRODUCTOS QUIMICOS MONTERREY, S.A. DE C.V.

MIRADOR 201, COL. MIRADOR
MONTERREY, N.L. MÉXICO
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:	MAY/23/2024
LOT NUMBER :	417203		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na_2SO_4)	Min. 99.0%	99.8 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.2
Insoluble matter	Max. 0.01%	0.001 %
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%	0.001 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.001 %
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%	0.2 %
Retained on US Standard No. 60 sieve	Min. 94%	96.2 %
Through US Standard No. 60 sieve	Max. 5%	3.5 %
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.

E 3875

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™ | J.T.Baker

Material No.: 9254-03
Batch No.: 24H1462005
Manufactured Date: 2024-05-24
Expiration Date:2027-05-24
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ($(CH_3)_2CO$) (by GC, corrected forwater)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titrable Acid (µeq/g)	<= 0.3	0.2
Titrable Base (µeq/g)	<= 0.6	<0.1
Water (H_2O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory,Research,or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD RS

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

JCroak
Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™ | J.T.Baker

Material No.: 9266-A4
Batch No.: 25B1862001
Manufactured Date: 2024-12-18
Expiration Date:2026-03-19
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	99.9 %
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: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

RS 7/14/25

E3954

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

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor | J.T.Baker

M615 MB

Material No.: 9673-33
Batch No.: 24I1262013
Manufactured Date: 2024-08-07
Retest Date:2029-08-06
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS - Assay (H_2SO_4)	95.0 - 98.0 %	96.2 %
Appearance	Passes Test	Passes Test
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	<1 ppm
ACS - Substances Reducing Permanganate(as SO2)	<= 2 ppm	<2 ppm
Ammonium (NH_4)	<= 1 ppm	<1 ppm
Chloride (Cl)	<= 0.1 ppm	<0.1 ppm
Nitrate (NO_3)	<= 0.2 ppm	0.1 ppm
Phosphate (PO_4)	<= 0.5 ppm	<0.1 ppm
Trace Impurities - Aluminum (Al)	<= 30.0 ppb	<5.0 ppb
Arsenic & Antimony (as As)	<= 4.0 ppb	<2.0 ppb
Trace Impurities - Boron (B)	<= 10.0 ppb	<5.0 ppb
Trace Impurities - Cadmium (Cd)	<= 2.0 ppb	<1.0 ppb
Trace Impurities - Chromium (Cr)	<= 6.0 ppb	<1.0 ppb
Trace Impurities - Cobalt (Co)	<= 0.5 ppb	<0.3 ppb
Trace Impurities - Copper (Cu)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Gold (Au)	<= 10.0 ppb	<5.0 ppb
Heavy Metals (as Pb)	<= 500.0 ppb	<100.0 ppb
Trace Impurities - Iron (Fe)	<= 50.0 ppb	<1.0 ppb
Trace Impurities - Lead (Pb)	<= 0.5 ppb	<0.5 ppb
Trace Impurities - Magnesium (Mg)	<= 7.0 ppb	<1.0 ppb
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	<1.0 ppb
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	<0.1 ppb
Trace Impurities - Nickel (Ni)	<= 2.0 ppb	<0.3 ppb
Trace Impurities - Potassium (K)	<= 500.0 ppb	<10.0 ppb
Trace Impurities - Selenium (Se)	<= 50.0 ppb	7.2 ppb
Trace Impurities - Silicon (Si)	<= 100.0 ppb	12.8 ppb
Trace Impurities - Silver (Ag)	<= 1.0 ppb	<1.0 ppb

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker

Material No.: 9673-33
Batch No.: 24I1262013

Test	Specification	Result
Trace Impurities - Sodium (Na)	<= 500.0 ppb	<5.0 ppb
Trace Impurities - Strontium (Sr)	<= 5.0 ppb	<1.0 ppb
Trace Impurities - Tin (Sn)	<= 5.0 ppb	1.1 ppb
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	<1.0 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

J Croak

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

RESTEK

110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

S11484 ↓ S11493 Y.P. 08/10/23

Catalog No. : 555870 **Lot No.:** A0200549

Description : Custom 2,4-Dinitrophenol Standard

Custom 2,4-Dinitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	25,008.0 µg/mL	+/- 777.3323

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckar - Mix Technician

Date Mixed: 02-Aug-2023 **Balance:** 1128342314

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555872 **Lot No.:** A0201728

Description : Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

511649 ↓ 511658 Y.P. 11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP230530RSR	99%	25,000.0 µg/mL	+/- 777.0837

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Josh McCloskey - Operations Technician I

Date Mixed: 05-Sep-2023 **Balance:** B251644995

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0200655

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11795 ↓ S11808 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

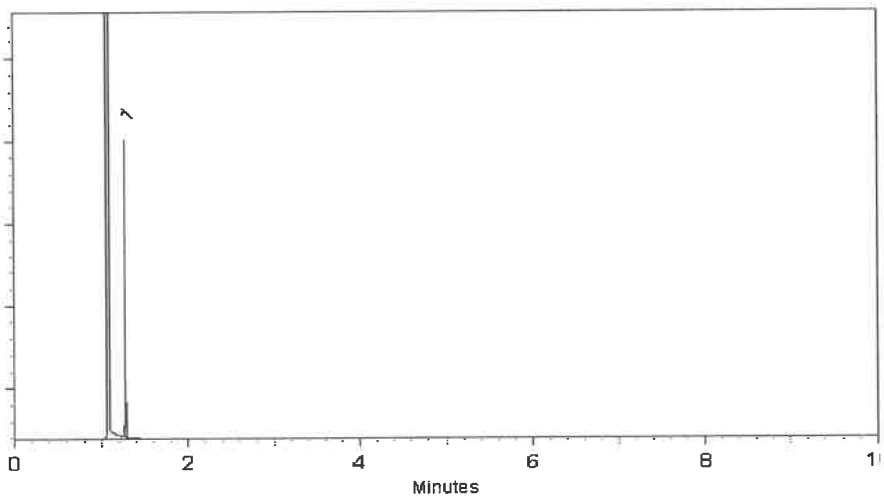
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

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.:** A0200655

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

S11795 ↓ S11808 RC 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBQ1693	99%	2,007.0 µg/mL	+/- 24.9775

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

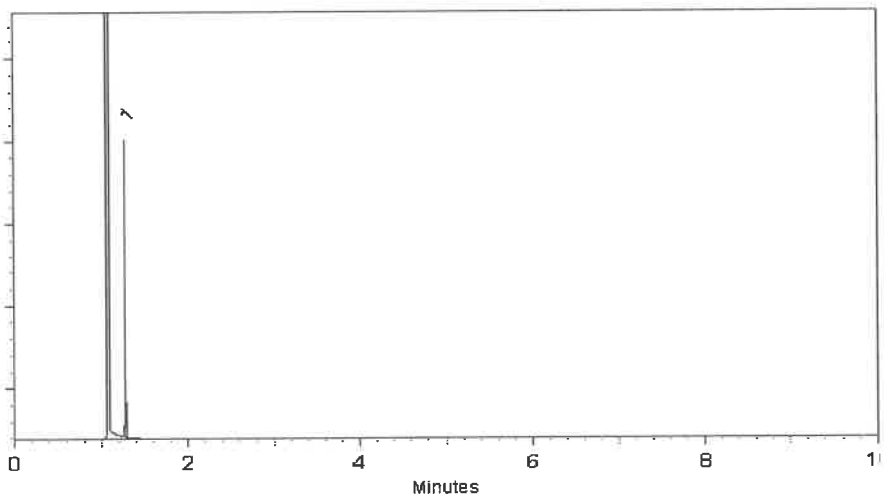
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-2023

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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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. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

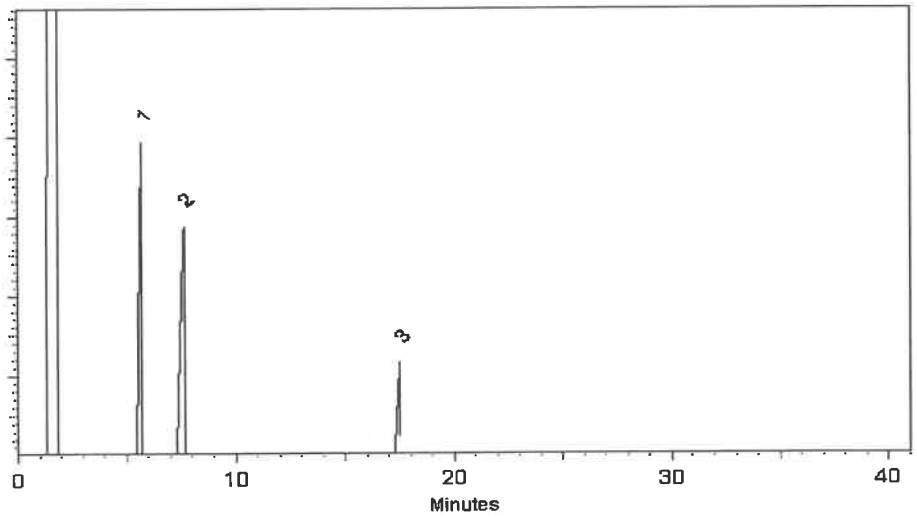
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

S12187 ↓ S12206 } RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

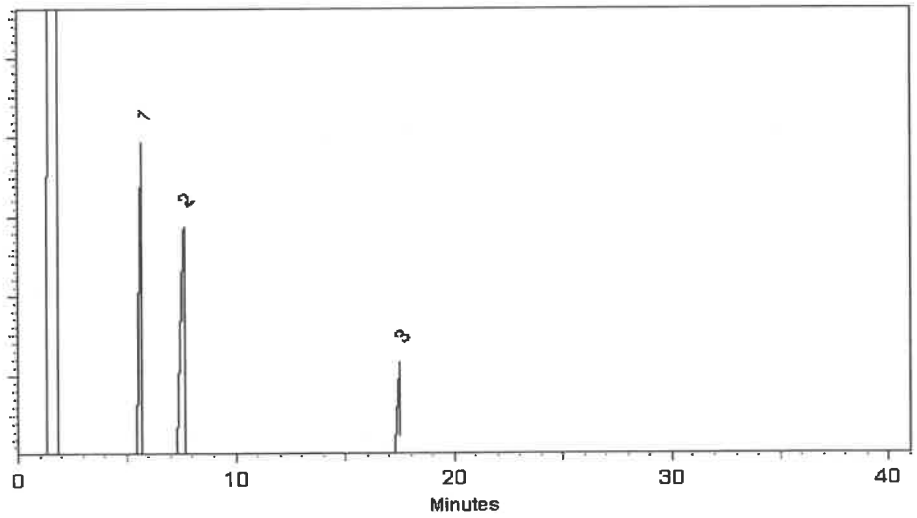
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

S12187 ↓ S12206 } RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

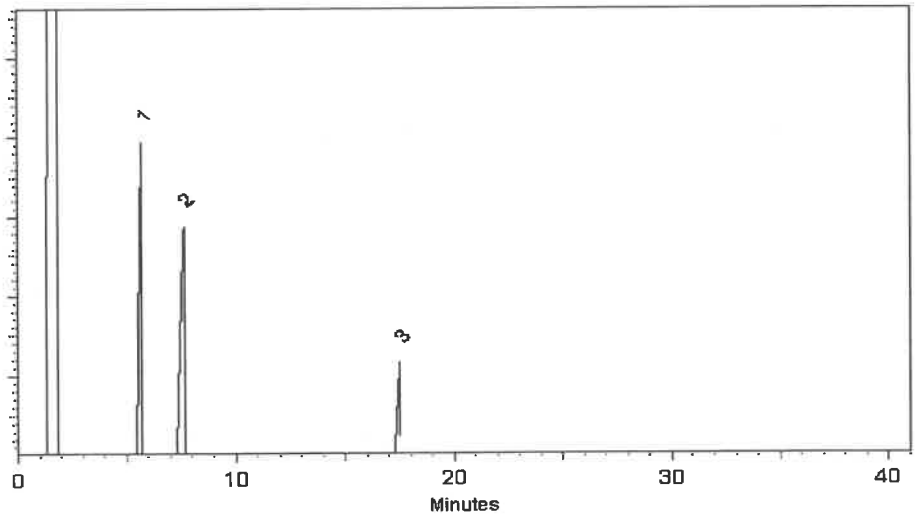
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 31087 **Lot No.:** A0206206

Description : Acid Surrogate Mix (4/89 SOW)

Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul

S12187 ↓ S12206 } RC/ 03/18/24

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : January 31, 2032 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	2-Fluorophenol	367-12-4	STBK1705	99%	10,005.3 µg/mL	+/- 302.5390
2	Phenol-d6	13127-88-3	PR-33287A	99%	10,005.5 µg/mL	+/- 302.5475
3	2,4,6-Tribromophenol	118-79-6	RP230831RSR	99%	10,006.6 µg/mL	+/- 302.5783

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

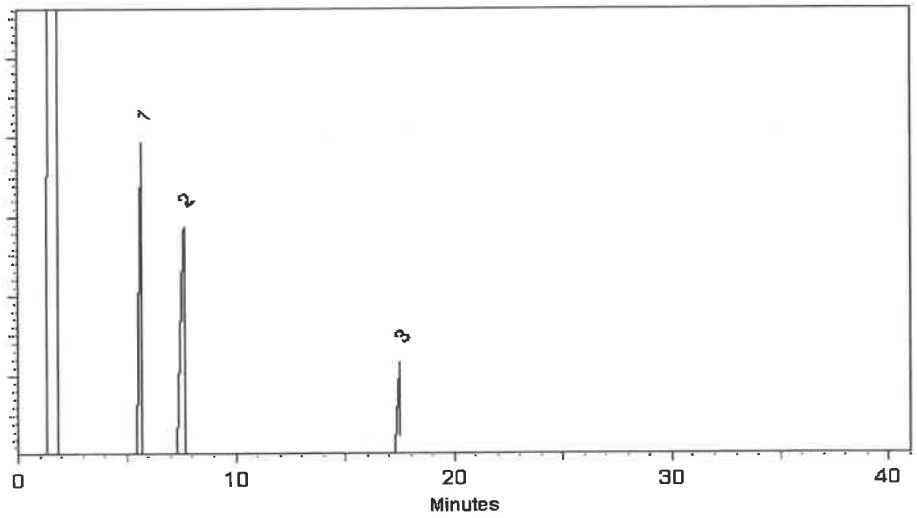
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024 **Balance Serial #** 1128360905

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

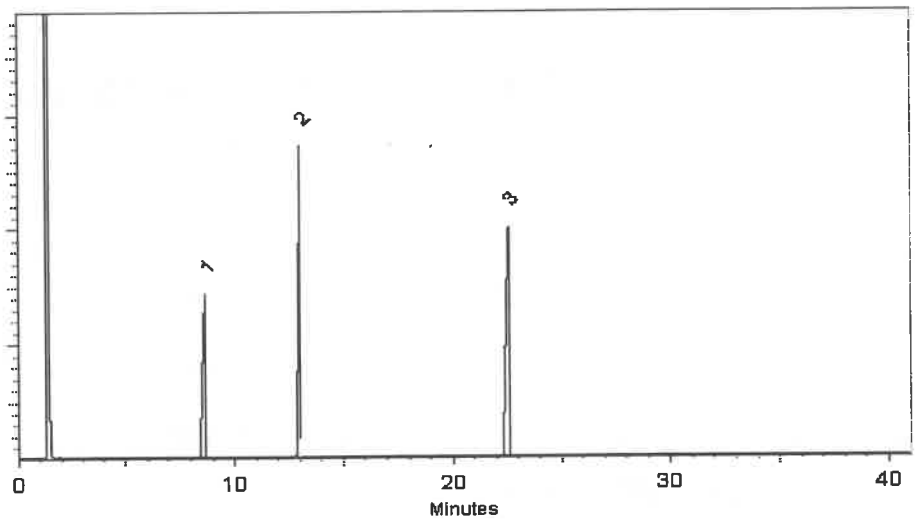
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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.

Catalog No. : 31086 **Lot No.:** A0206381

Description : B/N Surrogate Mix (4/89 SOW)

Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul

Container Size : 5 mL **Pkg Amt:** > 5 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonicate prior to use. **Ship:** Ambient

S12207 ↓ S12221 RC/ 03/18/24

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Nitrobenzene-d5	4165-60-0	I-25158	99%	5,029.3 µg/mL	+/- 226.5204
2	2-Fluorobiphenyl	321-60-8	00021384	99%	5,030.9 µg/mL	+/- 226.5936
3	p-Terphenyl-d14	1718-51-0	PR-32599	99%	5,026.4 µg/mL	+/- 226.3909

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

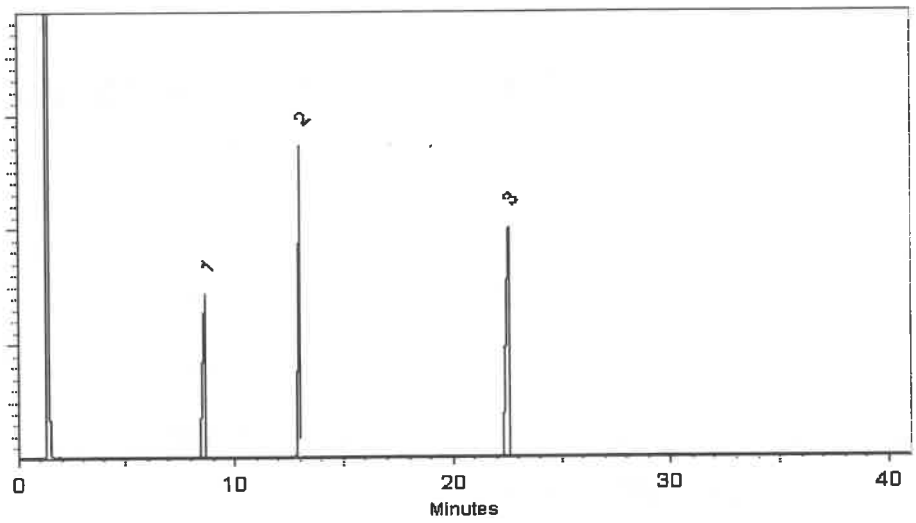
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
2 ml/min.

Inj. Vol
1µl



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Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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. : 30409 **Lot No.:** A0206650

Description : Pyridine Standard

Pyridine 2000µg/mL, P&T Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : October 31, 2027 **Storage:** 0°C or colder

Ship: Ambient

S12242 ↓ S12254 RC/ 5/15/24

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%	2,020.0 µg/mL	+/- 33.0924

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: P&T Methanol
CAS # 67-56-1
Purity 99%

Quality Confirmation Test

Column:
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

Carrier Gas:
hydrogen-constant pressure 11.0 psi.

Temp. Program:
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

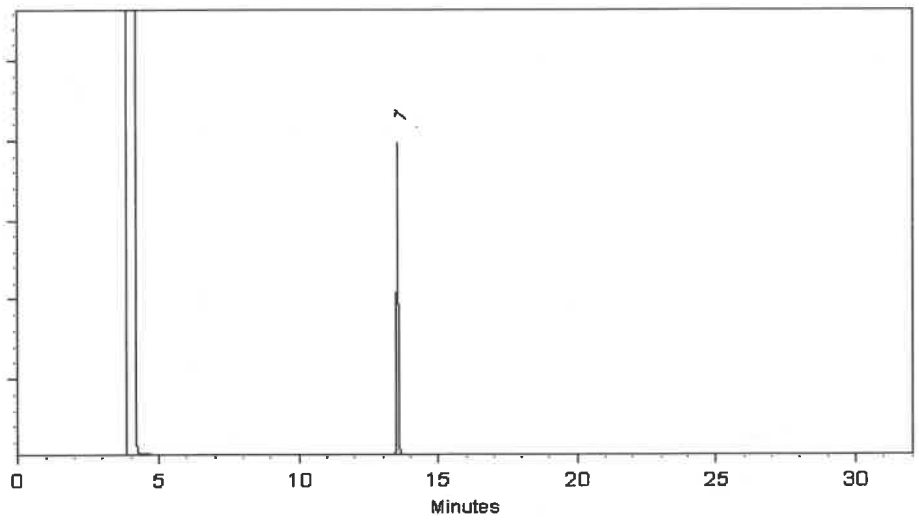
Inj. Temp:
200°C

Det. Temp:
250°C

Det. Type:
FID

Split Vent:
40 ml/min

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

Date Mixed: 16-Jan-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 18-Jan-2024

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

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S12302 ↓ S12311 } RC/ 5/30/24

Catalog No. : 31902 **Lot No.:** A0206859

Description : Additions Standard

Additions Standard 1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.5419
2	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.8 µg/mL	+/- 29.6521
3	Atrazine	1912-24-9	5FYWL	99%	1,008.8 µg/mL	+/- 29.6521

* 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.)

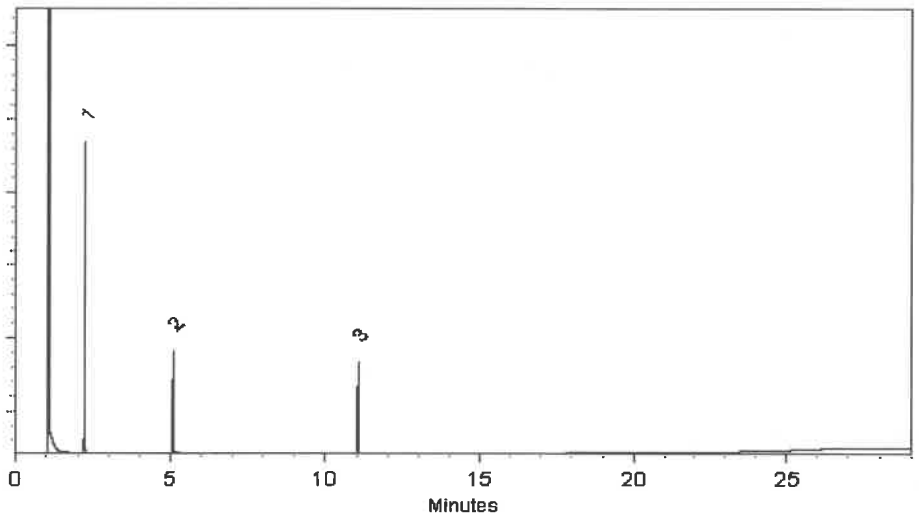
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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Stacey Wanner - Operations Technician I

Date Mixed: 23-Jan-2024 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

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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.

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S12302 ↓ S12311 } RC/ 5/30/24

Catalog No. : 31902 **Lot No.:** A0206859

Description : Additions Standard

Additions Standard 1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2026 **Storage:** 10°C or colder

Handling: This product is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,005.0 µg/mL	+/- 29.5419
2	epsilon-Caprolactam	105-60-2	I16X016	99%	1,008.8 µg/mL	+/- 29.6521
3	Atrazine	1912-24-9	5FYWL	99%	1,008.8 µg/mL	+/- 29.6521

* 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.)

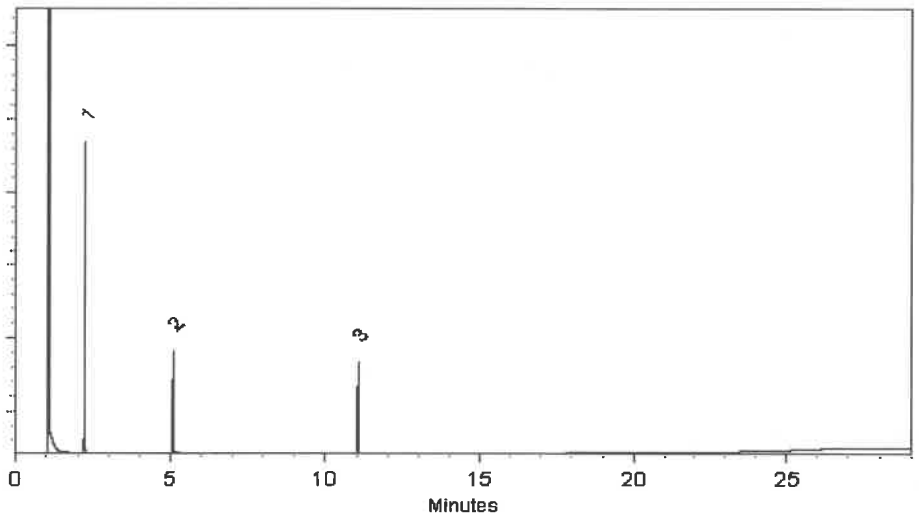
Inj. Temp:
250°C

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.

Stacey Wanner - Operations Technician I

Date Mixed: 23-Jan-2024 **Balance Serial #** B442140311

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 24-Jan-2024

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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.

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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
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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

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Expiration Notes:

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Manufacturing Notes:

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Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

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Purity Notes:

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  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.
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Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
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Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

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Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
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2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

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Manufacturing Notes:

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Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

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Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

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Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

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Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

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Manufacturing Notes:

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Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
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4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Manufacturing Notes:

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Handling Notes:

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Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
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4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 555224 **Lot No.:** A0214017

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,005.0 µg/mL	+/- 29.541899
2	Acetophenone	98-86-2	STBH8205	99%	1,005.0 µg/mL	+/- 29.541899
3	Benzaldehyde	100-52-7	RD231129RSRA	99%	1,008.0 µg/mL	+/- 29.630084
4	Benzoic acid	65-85-0	MKCR2694	99%	1,010.0 µg/mL	+/- 29.688874
5	Biphenyl	92-52-4	MKCS5928	99%	1,008.0 µg/mL	+/- 29.630084

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12509 ↓ S12568 } RC/ 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Manufacturing Notes:

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Handling Notes:

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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Catalog No. : 31615 **Lot No.:** A0212955

Description : GC/MS Tuning Mixture

GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2027 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,004.5 µg/mL	+/- 44.8902
2	DFTPP (Decafluorotriphenylphosphine)	5074-71-5	Q117-147	99%	1,004.5 µg/mL	+/- 44.8902
3	Benzidine	92-87-5	S240430RSR	99%	1,006.0 µg/mL	+/- 44.9572
4	4,4'-DDT	50-29-3	S240530RSR	97%	1,000.1 µg/mL	+/- 44.6922

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12577 ↓ S12579 RC 8/2/24

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

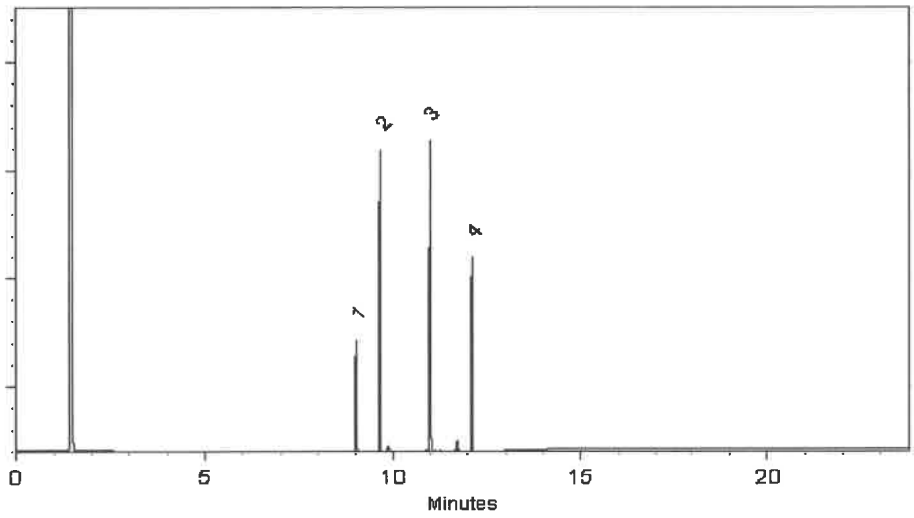
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID

Split Vent:
10 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024 **Balance Serial #** 1128353505

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Catalog No. : 31900 **Lot No.:** A0215529

Description : OLM 01.1 Revised SV MegaMix

OLM 01.1 Revised SV MegaMix 500-1000 µg/mL, Methylene chloride, 1mL/ampul

S12736 ↓ S12754 AC 10/9/24

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Phenol	108-95-2	MKCK1120	99%	1,008.6 µg/mL	+/- 19.3211
2	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,002.3 µg/mL	+/- 19.2013
3	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.2 µg/mL	+/- 19.2564
4	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,006.3 µg/mL	+/- 19.2768
5	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,009.3 µg/mL	+/- 19.3354
6	Acetophenone	98-86-2	STBH8205	99%	1,003.8 µg/mL	+/- 18.5851
7	Hexachloroethane	67-72-1	QTORH	99%	1,000.6 µg/mL	+/- 19.1690
8	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.5 µg/mL	+/- 19.2599
9	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	500.3 µg/mL	+/- 9.5854
10	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 9.6213
11	Nitrobenzene	98-95-3	10224044	99%	1,003.2 µg/mL	+/- 19.2181
12	Isophorone	78-59-1	MKCC9506	99%	1,007.0 µg/mL	+/- 19.2911
13	2-Nitrophenol	88-75-5	RP230509C	99%	1,003.4 µg/mL	+/- 19.2217
14	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,008.1 µg/mL	+/- 19.3115
15	Bis(2-chloroethoxy)methane	111-91-1	15174900	99%	1,002.3 µg/mL	+/- 19.2001
16	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,002.3 µg/mL	+/- 19.2001

17	Naphthalene	91-20-3	STBL1057	99%	1,003.6	µg/mL	+/- 19.2253
18	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.5	µg/mL	+/- 19.2791
19	Hexachlorobutadiene	87-68-3	RP240110CTH	97%	1,003.9	µg/mL	+/- 19.2316
20	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,005.1	µg/mL	+/- 19.2718
21	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.8	µg/mL	+/- 19.2301
22	1,2,4,5-Tetrachlorobenzene	95-94-3	MKCT9480	99%	1,000.5	µg/mL	+/- 19.1832
23	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 19.1811
24	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.1	µg/mL	+/- 19.2349
25	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,008.6	µg/mL	+/- 19.3221
26	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,002.3	µg/mL	+/- 19.2001
27	Biphenyl	92-52-4	MKCS5928	99%	1,001.3	µg/mL	+/- 18.5388
28	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,000.5	µg/mL	+/- 19.1832
29	Acenaphthylene	208-96-8	214935V16F	97%	999.9	µg/mL	+/- 19.1561
30	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.8	µg/mL	+/- 19.2672
31	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,001.2	µg/mL	+/- 19.1798
32	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 19.1570
33	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,005.5	µg/mL	+/- 19.2791
34	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,008.8	µg/mL	+/- 19.3259
35	Dibenzofuran	132-64-9	MKCD9952	99%	1,002.5	µg/mL	+/- 18.5619
36	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,002.5	µg/mL	+/- 19.2049
37	4-Nitrophenol	100-02-7	RP230627	99%	1,004.4	µg/mL	+/- 19.2421
38	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,001.5	µg/mL	+/- 19.2024
39	Fluorene	86-73-7	10241100	99%	1,004.2	µg/mL	+/- 19.2373
40	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.0	µg/mL	+/- 19.2145
41	Diethylphthalate	84-66-2	BCCJ6241	99%	1,002.1	µg/mL	+/- 19.1978
42	4-Nitroaniline	100-01-6	RP240510RSR	99%	1,005.0	µg/mL	+/- 19.2695
43	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S240410RSR	99%	1,001.1	µg/mL	+/- 19.1786
44	Diphenylamine	122-39-4	MKCT1512	99%	1,004.5	µg/mL	+/- 19.2599
45	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.9	µg/mL	+/- 19.2708
46	Hexachlorobenzene	118-74-1	15458400	99%	1,009.2	µg/mL	+/- 19.3331
47	Pentachlorophenol	87-86-5	RP240411RSR	99%	1,008.9	µg/mL	+/- 19.3283
48	Phenanthrene	85-01-8	MKCS5188	99%	1,006.2	µg/mL	+/- 19.2756
49	Anthracene	120-12-7	101492T18R	99%	1,001.6	µg/mL	+/- 19.1882
50	Carbazole	86-74-8	15276700	99%	1,004.0	µg/mL	+/- 19.2503
51	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,002.5	µg/mL	+/- 19.2049
52	Fluoranthene	206-44-0	MKCQ4728	99%	1,008.7	µg/mL	+/- 19.3235

53	Pyrene	129-00-0	BCCK2592	99%	1,002.9	µg/mL	+/- 19.2121
54	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.6	µg/mL	+/- 19.2444
55	Benz(a)anthracene	56-55-3	I50012022BAA	99%	1,009.1	µg/mL	+/- 19.3307
56	Chrysene	218-01-9	RP240719RSR	99%	1,005.9	µg/mL	+/- 19.2708
57	3,3'-Dichlorobenzidine	91-94-1	S231019RSR	99%	1,001.5	µg/mL	+/- 19.2024
58	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,006.3	µg/mL	+/- 19.2768
59	Di-n-octyl phthalate	117-84-0	15276800	99%	1,008.9	µg/mL	+/- 19.3283
60	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,006.4	µg/mL	+/- 19.2792
61	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,001.9	µg/mL	+/- 19.1942
62	Benzo(a)pyrene	50-32-8	O45GL	98%	1,003.9	µg/mL	+/- 19.2327
63	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,003.7	µg/mL	+/- 19.2281
64	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,004.2	µg/mL	+/- 19.2373
65	Benzo(g,h,i)perylene	191-24-2	RP240625RSR	97%	1,001.5	µg/mL	+/- 19.1863

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

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CERTIFIED WEIGHT REPORT

Part Number: 90494
Lot Number: 061323
Description: 1-Methylnaphthalene

Expiration Date: 061328
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 6UTB

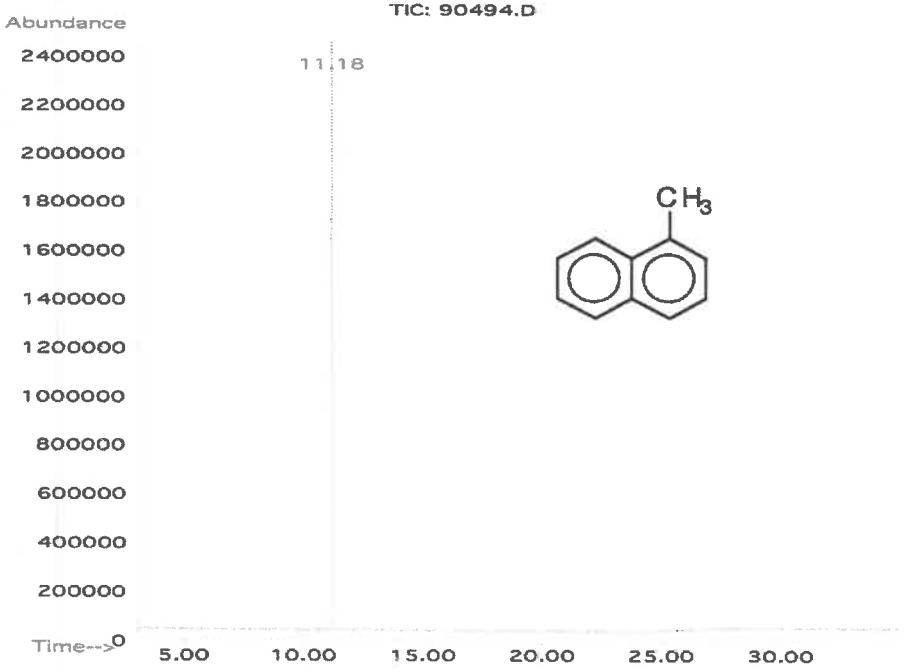
Solvent(s): **Lot#**
Methylene chloride C21F09CAS0000DCM

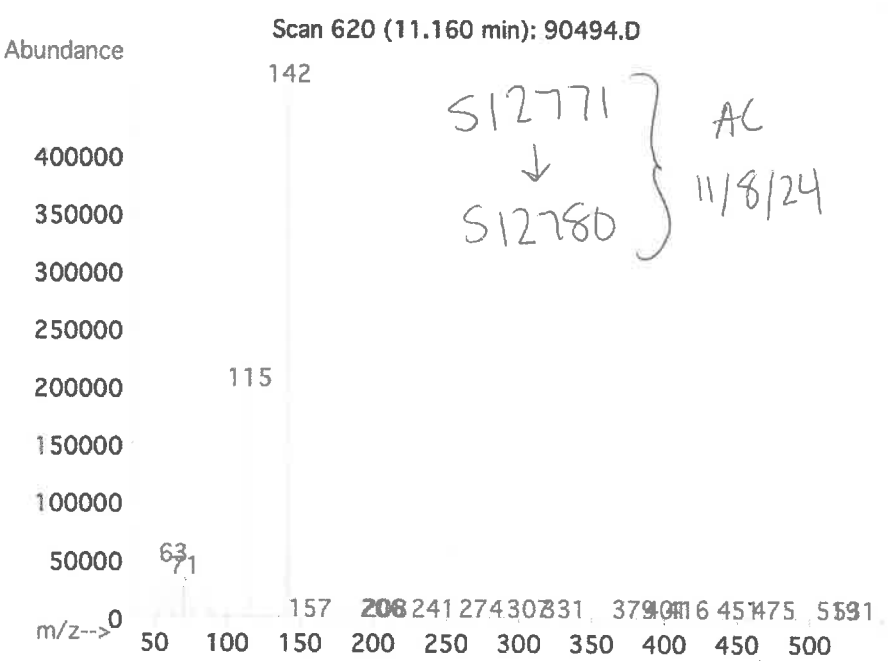
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.031 Flask Uncertainty

Formulated By: Prashant Chauhan	061323 DATE
Reviewed By: Pedro L. Rentas	061323 DATE

Compound	RM#	Lot Number	Nominal Conc (µg/mL)	Purity (%)	Uncertainty Purity	Target Weight(g)	Actual Weight(g)	Actual Conc (µg/mL)	Expanded Uncertainty (+/-) (µg/mL)	SDS Information (Solvent Safety Info. On Attached pg.) CAS#	OSHA PEL (TWA)	LD50
1. 1-Methylnaphthalene	313	04413BX	2000	98	0.2	0.20417	0.20430	2001.2	8.3	90-12-0	N/A	orl-rat 1840mg/kg

Method GC8MSD-3.M: Column:SPB-5 (30m X 0.25mm ID X 0.25µm film thickness) Temp 1 = 50°C (1min.), Temp 2 = 300°C (9min.), Rate = 10°C/min., Injector B= 200°C, Detector B = 275°C, Split Ratio = 100:1, Scan Rate = 2. Analysis performed by: Gina McLane.





S12771 ↓ S12780 } AC 11/8/24

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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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.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/- 36.5511
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/- 36.5916
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/- 36.5612
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/- 36.5402
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/- 36.5571
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/- 36.5516
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/- 36.6335
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/- 36.5980
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/- 36.5328
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/- 36.5793
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/- 36.6144
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/- 36.5975
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/- 36.5566
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/- 36.5571
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/- 36.5757
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/- 36.5584
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/- 36.5475
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/- 36.3888
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/- 36.5616
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/- 36.5489
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/- 36.5734
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/- 36.6003
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5525
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/- 36.5657
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/- 36.5803
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/- 36.5803
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/- 36.5930
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/- 36.5616
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/- 36.5739
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/- 36.5948
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/- 36.5584
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/- 36.5762
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/- 36.5844
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/- 36.5589

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

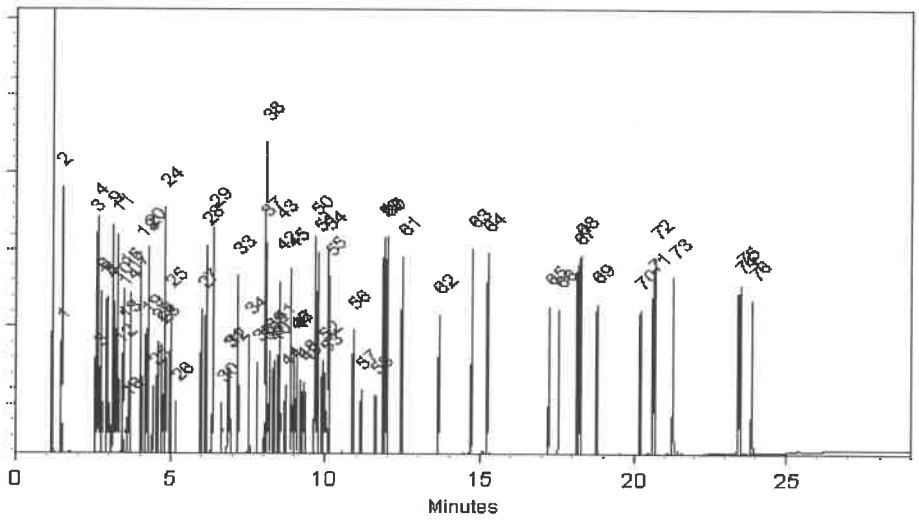
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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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.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/- 36.5511
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/- 36.5916
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/- 36.5612
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/- 36.5402
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/- 36.5571
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/- 36.5516
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/- 36.6335
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/- 36.5980
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/- 36.5328
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/- 36.5793
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/- 36.6144
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/- 36.5975
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/- 36.5566
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/- 36.5571
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/- 36.5757
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/- 36.5584
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/- 36.5475
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/- 36.3888
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/- 36.5616
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/- 36.5489
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/- 36.5734
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/- 36.6003
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5525
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/- 36.5657
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/- 36.5803
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/- 36.5803
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/- 36.5930
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/- 36.5616
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/- 36.5739
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/- 36.5948
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/- 36.5584
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/- 36.5762
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/- 36.5844
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/- 36.5589

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

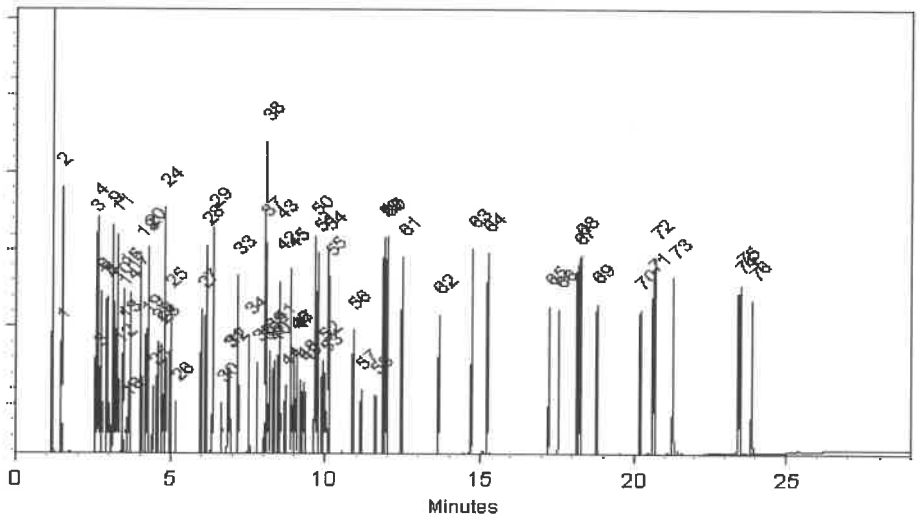
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/- 36.5511
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/- 36.5916
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/- 36.5612
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/- 36.5402
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/- 36.5571
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/- 36.5516
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/- 36.6335
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/- 36.5980
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/- 36.5328
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/- 36.5793
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/- 36.6144
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/- 36.5975
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/- 36.5566
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/- 36.5571
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/- 36.5757
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/- 36.5584
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/- 36.5475
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/- 36.3888
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/- 36.5616
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/- 36.5489
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/- 36.5734
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/- 36.6003
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5525
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/- 36.5657
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/- 36.5803
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/- 36.5803
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/- 36.5930
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/- 36.5616
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/- 36.5739
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/- 36.5948
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/- 36.5584
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/- 36.5762
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/- 36.5844
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/- 36.5589

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

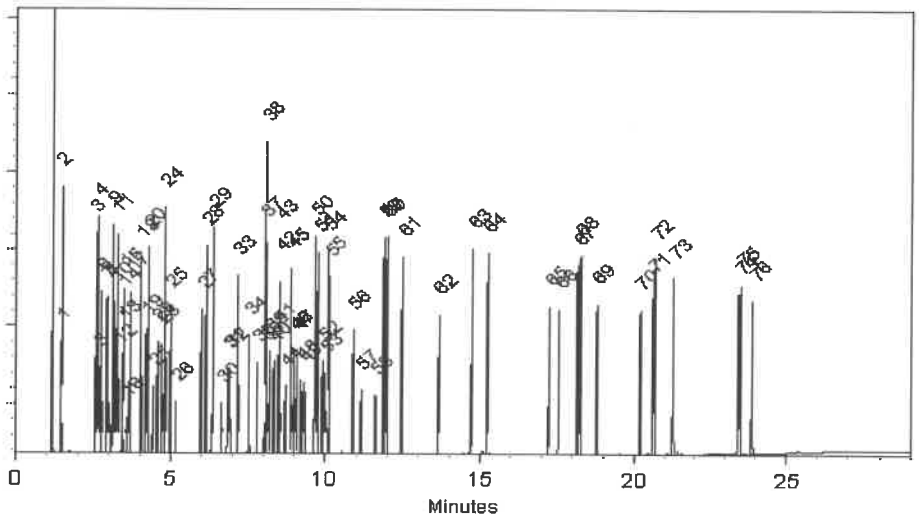
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

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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.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/- 36.5511
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/- 36.5916
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/- 36.5612
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/- 36.5402
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/- 36.5571
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/- 36.5516
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/- 36.6335
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/- 36.5980
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/- 36.5328
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/- 36.5793
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/- 36.6144
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/- 36.5975
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/- 36.5566
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/- 36.5571
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/- 36.5757
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/- 36.5584
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/- 36.5475
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/- 36.3888
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/- 36.5616
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/- 36.5489
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/- 36.5734
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/- 36.6003
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5525
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/- 36.5657
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/- 36.5803
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/- 36.5803
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/- 36.5930
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/- 36.5616
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/- 36.5739
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/- 36.5948
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/- 36.5584
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/- 36.5762
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/- 36.5844
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/- 36.5589

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

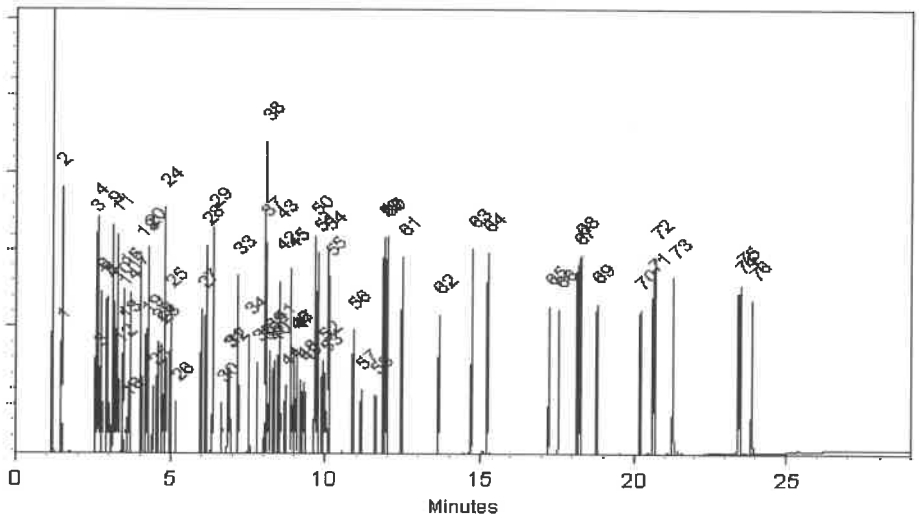
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

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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.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/- 36.5511
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/- 36.5916
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/- 36.5612
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/- 36.5402
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/- 36.5571
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/- 36.5516
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/- 36.6335
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/- 36.5980
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/- 36.5328
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/- 36.5793
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/- 36.6144
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/- 36.5975
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/- 36.5566
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/- 36.5571
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/- 36.5757
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/- 36.5584
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/- 36.5475
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/- 36.3888
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/- 36.5616
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/- 36.5489
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/- 36.5734
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/- 36.6003
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5525
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/- 36.5657
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/- 36.5803
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/- 36.5803
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/- 36.5930
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/- 36.5616
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/- 36.5739
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/- 36.5948
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/- 36.5584
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/- 36.5762
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/- 36.5844
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/- 36.5589

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

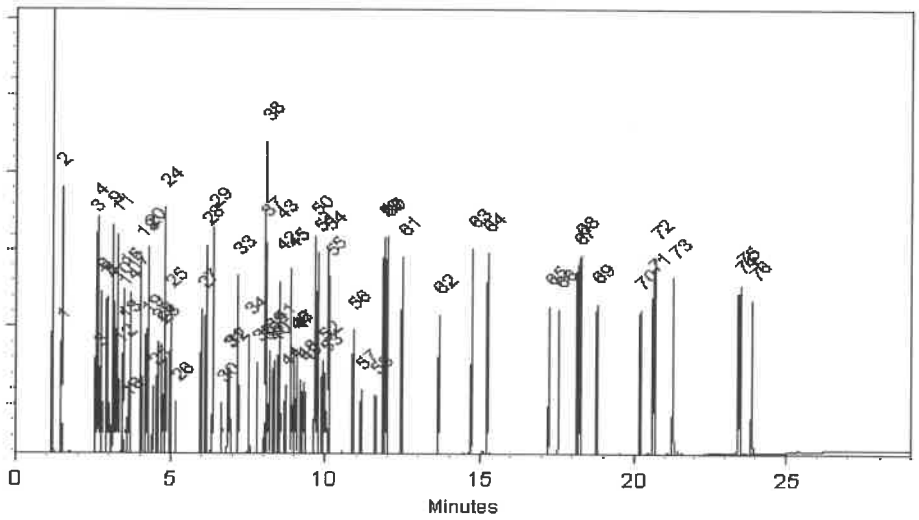
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/- 36.5511
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/- 36.5916
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/- 36.5612
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/- 36.5402
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/- 36.5571
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/- 36.5516
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/- 36.6335
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/- 36.5980
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/- 36.5328
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/- 36.5793
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/- 36.6144
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/- 36.5975
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/- 36.5566
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/- 36.5571
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/- 36.5757
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/- 36.5584
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/- 36.5475
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/- 36.3888
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/- 36.5616
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/- 36.5489
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/- 36.5734
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/- 36.6003
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5525
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/- 36.5657
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/- 36.5803
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/- 36.5803
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/- 36.5930
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/- 36.5616
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/- 36.5739
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/- 36.5948
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/- 36.5584
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/- 36.5762
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/- 36.5844
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/- 36.5589

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

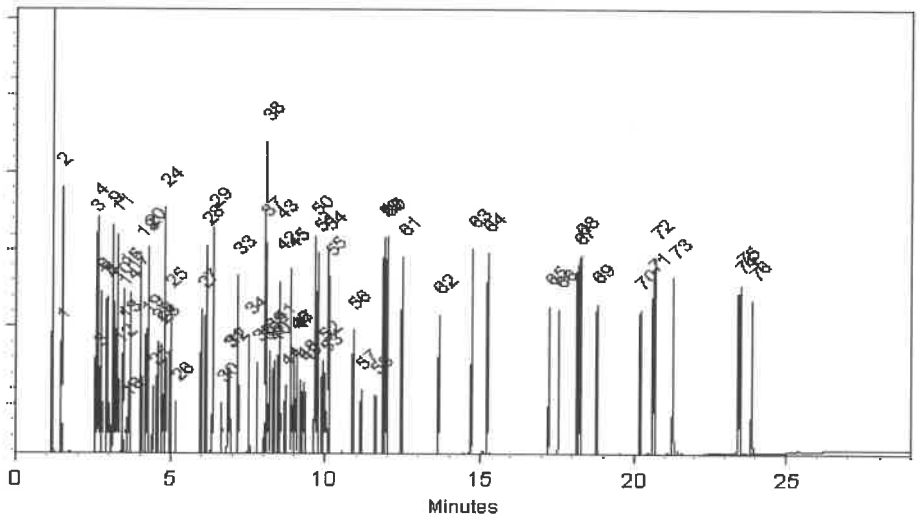
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/- 36.5511
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/- 36.5916
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/- 36.5612
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/- 36.5402
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/- 36.5571
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/- 36.5516
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/- 36.6335
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/- 36.5980
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/- 36.5328
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/- 36.5793
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/- 36.6144
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/- 36.5975
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/- 36.5566
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/- 36.5571
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/- 36.5757
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/- 36.5584
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/- 36.5475
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/- 36.3888
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/- 36.5616
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/- 36.5489
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/- 36.5734
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/- 36.6003
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5525
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/- 36.5657
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/- 36.5803
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/- 36.5803
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/- 36.5930
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/- 36.5616
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/- 36.5739
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/- 36.5948
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/- 36.5584
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/- 36.5762
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/- 36.5844
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/- 36.5589

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

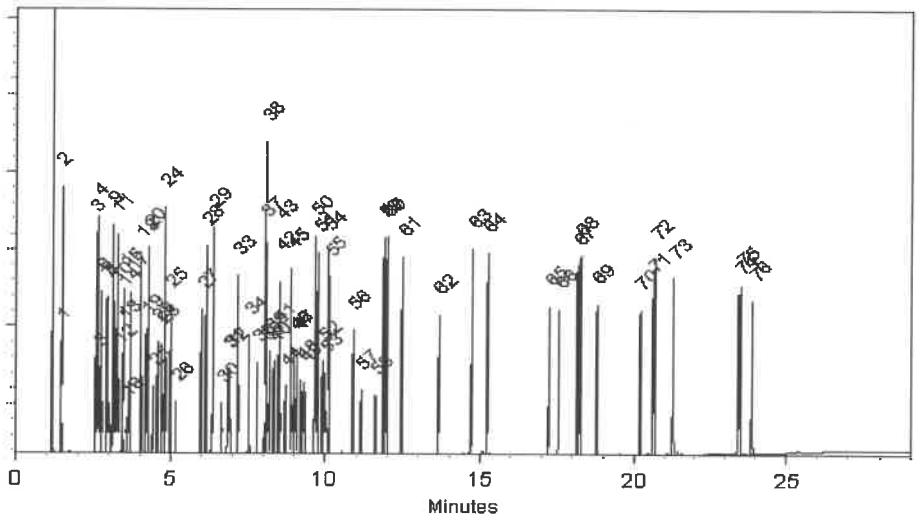
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/- 36.5511
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/- 36.5916
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/- 36.5612
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/- 36.5402
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/- 36.5571
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/- 36.5516
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/- 36.6335
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/- 36.5980
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/- 36.5328
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/- 36.5793
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/- 36.6144
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/- 36.5975
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/- 36.5566
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/- 36.5571
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/- 36.5757
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/- 36.5584
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/- 36.5475
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/- 36.3888
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/- 36.5616
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/- 36.5489
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/- 36.5734
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/- 36.6003
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5525
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/- 36.5657
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/- 36.5803
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/- 36.5803
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/- 36.5930
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/- 36.5616
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/- 36.5739
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/- 36.5948
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/- 36.5584
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/- 36.5762
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/- 36.5844
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/- 36.5589

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

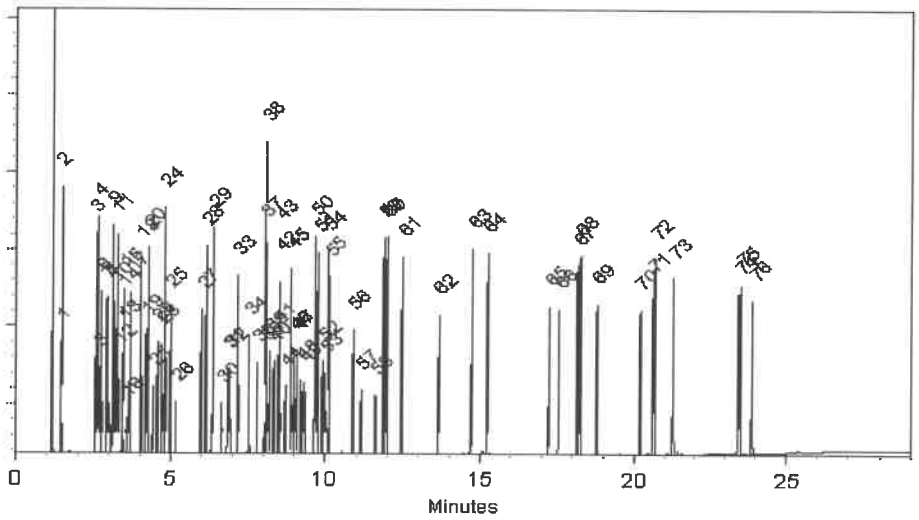
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0221014

S13088 ↓ S13117 RC 5/20/25.

Description : 8270 MegaMix®

8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBR4811	99%	1,005.2 µg/mL	+/- 36.5730
2	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	1,005.5 µg/mL	+/- 36.5848
3	Phenol	108-95-2	MKCK1120	99%	1,005.3 µg/mL	+/- 36.5780
4	Aniline	62-53-3	X22F726	99%	1,005.4 µg/mL	+/- 36.5816
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,004.7 µg/mL	+/- 36.5562
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.3 µg/mL	+/- 36.5766
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.6 µg/mL	+/- 36.5530
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,006.3 µg/mL	+/- 36.6125
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,005.5 µg/mL	+/- 36.5853
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,004.6 µg/mL	+/- 36.5507
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,004.8 µg/mL	+/- 36.5575
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,005.4 µg/mL	+/- 36.5803
13	3-Methylphenol (m-cresol)	108-39-4	STBL3873	99%	502.7 µg/mL	+/- 18.2888
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	502.6 µg/mL	+/- 18.2869
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,004.6 µg/mL	+/- 36.5502
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.6 µg/mL	+/- 36.5530
17	Nitrobenzene	98-95-3	10224044	99%	1,005.3 µg/mL	+/- 36.5780

18	Isophorone	78-59-1	MKCR3249	99%	1,004.6	µg/mL	+/- 36.5511
19	2-Nitrophenol	88-75-5	RP230710	99%	1,005.7	µg/mL	+/- 36.5916
20	2,4-Dimethylphenol	105-67-9	DIRAF	99%	1,004.9	µg/mL	+/- 36.5612
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,004.3	µg/mL	+/- 36.5402
22	2,4-Dichlorophenol	120-83-2	BCCK6969	99%	1,004.7	µg/mL	+/- 36.5571
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,004.6	µg/mL	+/- 36.5516
24	Naphthalene	91-20-3	STBL1057	99%	1,006.8	µg/mL	+/- 36.6335
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,005.9	µg/mL	+/- 36.5980
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,004.1	µg/mL	+/- 36.5328
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,005.4	µg/mL	+/- 36.5793
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,006.3	µg/mL	+/- 36.6144
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	1,005.9	µg/mL	+/- 36.5975
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,004.7	µg/mL	+/- 36.5566
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.7	µg/mL	+/- 36.5571
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,005.3	µg/mL	+/- 36.5757
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.8	µg/mL	+/- 36.5584
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,004.5	µg/mL	+/- 36.5475
36	Acenaphthylene	208-96-8	214935V18H	95%	1,000.1	µg/mL	+/- 36.3888
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,004.9	µg/mL	+/- 36.5616
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,004.5	µg/mL	+/- 36.5489
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,005.2	µg/mL	+/- 36.5734
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,005.9	µg/mL	+/- 36.6003
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5525
43	2,4-Dinitrophenol	51-28-5	D240927RSR	99%	1,005.0	µg/mL	+/- 36.5657
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,005.4	µg/mL	+/- 36.5803
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,005.4	µg/mL	+/- 36.5803
46	4-Nitrophenol	100-02-7	20241120-1-AN	99%	1,005.7	µg/mL	+/- 36.5930
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,004.9	µg/mL	+/- 36.5616
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP240523RSR	99%	1,005.2	µg/mL	+/- 36.5739
49	Fluorene	86-73-7	10246250	98%	1,005.8	µg/mL	+/- 36.5948
50	4-Chlorophenyl phenyl ether	7005-72-3	002531K02D	99%	1,004.8	µg/mL	+/- 36.5584
51	Diethylphthalate	84-66-2	STBL3611	99%	1,005.3	µg/mL	+/- 36.5762
52	4-Nitroaniline	100-01-6	RP240830RSR	99%	1,005.5	µg/mL	+/- 36.5844
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,004.8	µg/mL	+/- 36.5589

54	Diphenylamine	122-39-4	MKCT1512	99%	1,005.2	µg/mL	+/- 36.5725
55	Azobenzene	103-33-3	BCCL3292	99%	1,004.7	µg/mL	+/- 36.5566
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,005.6	µg/mL	+/- 36.5875
57	Hexachlorobenzene	118-74-1	15828800	99%	1,005.3	µg/mL	+/- 36.5789
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.4	µg/mL	+/- 36.5825
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.8	µg/mL	+/- 36.5584
60	Anthracene	120-12-7	MKCW9141	99%	1,005.5	µg/mL	+/- 36.5834
61	Carbazole	86-74-8	15630800	99%	1,005.3	µg/mL	+/- 36.5789
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,005.5	µg/mL	+/- 36.5848
63	Fluoranthene	206-44-0	A0458721	99%	1,005.4	µg/mL	+/- <0.0001
64	Pyrene	129-00-0	BCCL8032	99%	1,005.2	µg/mL	+/- 36.5734
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,004.8	µg/mL	+/- 36.5584
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCR8567	99%	1,004.5	µg/mL	+/- 36.5480
67	Benz(a)anthracene	56-55-3	I60012022BAA	99%	1,005.5	µg/mL	+/- 36.5844
68	Chrysene	218-01-9	RP241212RSR	99%	1,005.5	µg/mL	+/- 36.5848
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,004.7	µg/mL	+/- 36.5548
70	Di-n-octyl phthalate	117-84-0	15817300	99%	1,004.8	µg/mL	+/- 36.5607
71	Benzo(b)fluoranthene	205-99-2	022013B	99%	1,005.1	µg/mL	+/- 36.5716
72	Benzo(k)fluoranthene	207-08-9	012022K	98%	1,004.6	µg/mL	+/- 36.5511
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,004.2	µg/mL	+/- 36.5377
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,004.1	µg/mL	+/- 36.5337
75	Dibenz(a,h)anthracene	53-70-3	712061504-1-1	99%	1,005.7	µg/mL	+/- 36.5930
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,005.4	µg/mL	+/- 36.5814

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:
N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

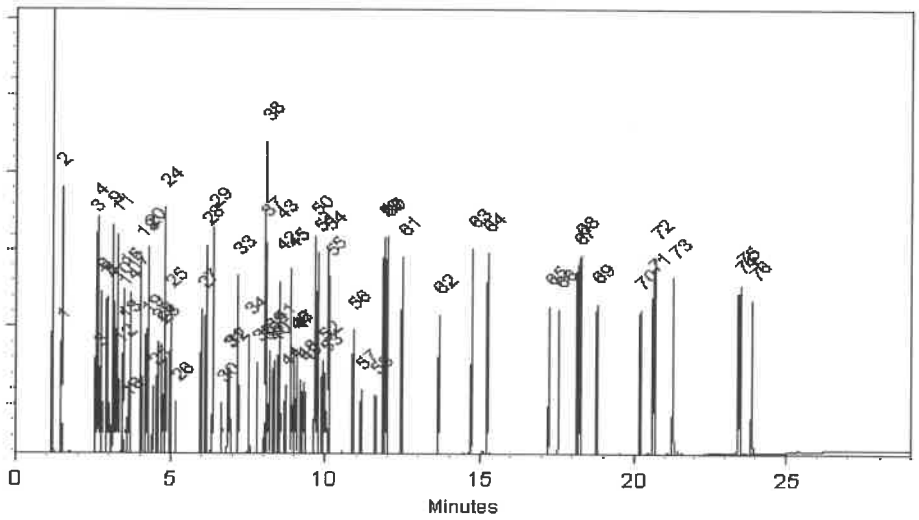
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 12-Jan-2025 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 21-Jan-2025

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

chromatographic plus

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31853 **Lot No.:** A0218894

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2029 **Storage:** 0°C or colder

Ship: Ambient

513118 ↓ 513147 } RC/ 5/20/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBQ1693	99%	2,002.4 µg/mL	+/- 24.9202

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

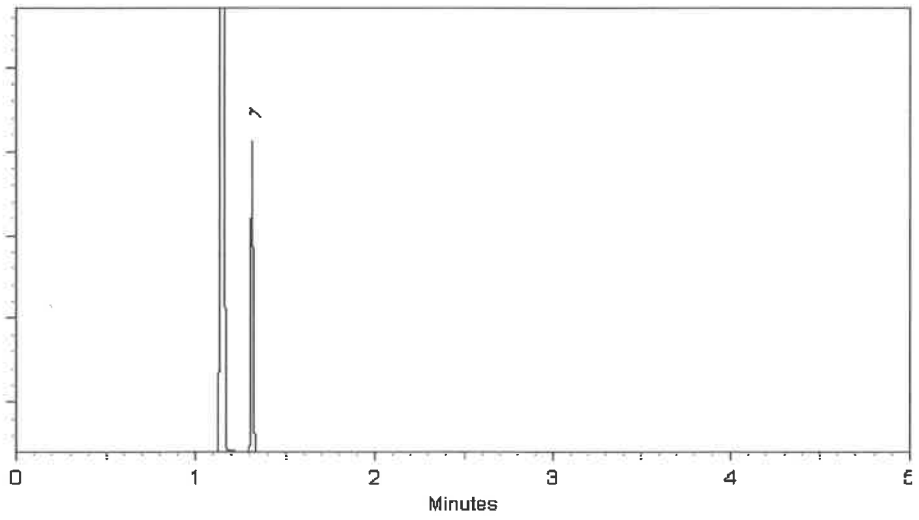
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 07-Nov-2024 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 11-Nov-2024

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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. : 31853 **Lot No.:** A0218894

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2029 **Storage:** 0°C or colder

Ship: Ambient

513118 ↓ 513147 } RC/ 5/20/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBQ1693	99%	2,002.4 µg/mL	+/- 24.9202

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

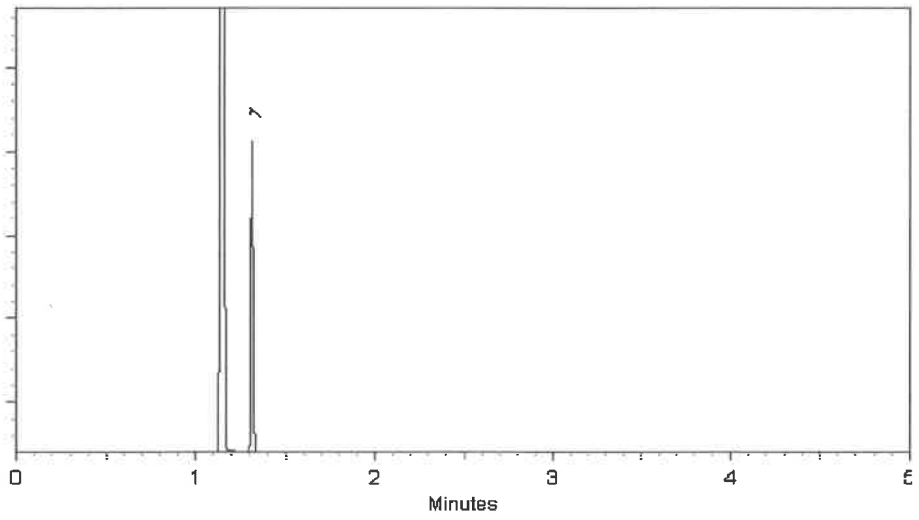
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 07-Nov-2024 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 11-Nov-2024

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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. : 31853 **Lot No.:** A0218894

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : November 30, 2029 **Storage:** 0°C or colder

Ship: Ambient

513118 ↓ 513147 } RC/ 5/20/25.

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBQ1693	99%	2,002.4 µg/mL	+/- 24.9202

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:
hydrogen-constant flow 1.8 mL/min.

Temp. Program:
80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

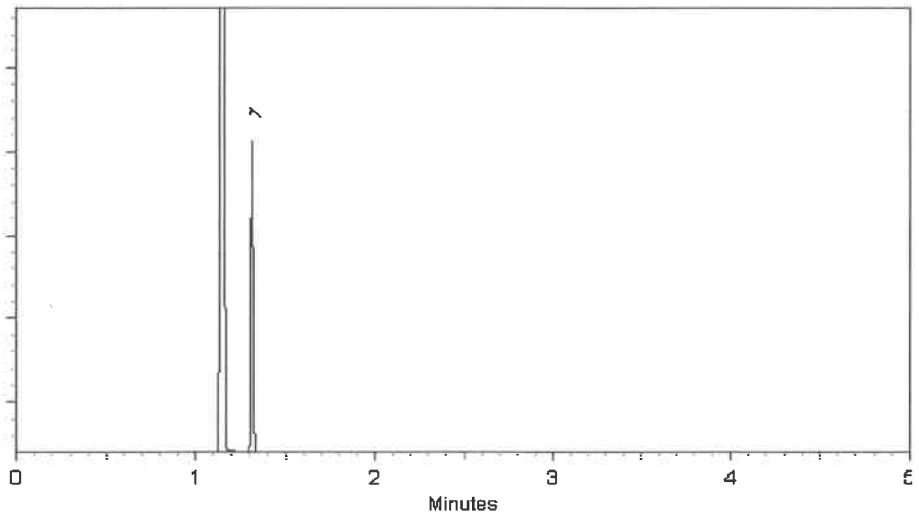
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 07-Nov-2024 **Balance Serial #** 1128360905

Dillan Murphy - Operations Technician I

Date Passed: 11-Nov-2024

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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. : 555871 **Lot No.:** A0226283

Description : Custom 4-Nitrophenol Standard

Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2028 **Storage:** 10°C or colder

Ship: Ambient

S13158 ↓ S13167 } RC/ 6/4/25

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	4-Nitrophenol	100-02-7	20241120-1-AN	99%	25,192.0 µg/mL	+/- 783.0517

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Morgan Craighead - Mix Technician

Date Mixed: 02-Jun-2025 **Balance:** C322230531

REVIEWED

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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.:** A0224359

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

S13168 ↓ S13197 } AC 6/9/25

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.0 µg/mL	+/- 90.0812
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.8 µg/mL	+/- 90.1187
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.8 µg/mL	+/- 90.1187
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.0 µg/mL	+/- 90.0812
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.8 µg/mL	+/- 90.1187
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.0 µg/mL	+/- 90.0812

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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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.

Catalog No. : 31206 **Lot No.:** A0224359

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

S13168 ↓ S13197 } AC 6/9/25

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.0 µg/mL	+/- 90.0812
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.8 µg/mL	+/- 90.1187
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.8 µg/mL	+/- 90.1187
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.0 µg/mL	+/- 90.0812
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.8 µg/mL	+/- 90.1187
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.0 µg/mL	+/- 90.0812

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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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.

Catalog No. : 31206 **Lot No.:** A0224359

Description : SV Internal Standard Mix 2mg/ml

SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

S13168 ↓ S13197 } AC 6/9/25

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : March 31, 2031 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.0 µg/mL	+/- 90.0812
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.8 µg/mL	+/- 90.1187
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.8 µg/mL	+/- 90.1187
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.0 µg/mL	+/- 90.0812
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.8 µg/mL	+/- 90.1187
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.0 µg/mL	+/- 90.0812

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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S13198 → S13207 } AC 6/11/25

Catalog No. : 555868 **Lot No.:** A0226493

Description : Custom Benzidine Standard

Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2028 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzidine	92-87-5	S250227ECS	99%	25,004.0 µg/mL	+/- 495.8040

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Laith Clemente - Operations Technician I **Date Mixed:** 09-Jun-2025 **Balance:** 1122030677

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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.

Catalog No. : 31879 **Lot No.:** A0221395

Description : Benzoic Acid Mix

Benzoic Acid 2000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : January 31, 2029 **Storage:** 10°C or colder

Ship: Ambient

S13214 ↓ S13218 AC 7/10/25

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Benzoic acid	65-85-0	MKCR2694	99%	2,002.2 µg/mL	+/- 60.5426

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

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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.

Catalog No. : 582978 **Lot No.:** A0228192

Description : Custom Calibration Standard - C8

Custom Calibration Standard - C8 2,000µg/mL, Methylene chloride, 1mL/ampul

513229 ↓ 513238 } RC/ 8/1/25

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : July 31, 2028 **Storage:** 0°C or colder

Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	N-Nitrosodimethylamine	62-75-9	S241226RSR	99%	2,000.0 µg/mL	+/- 35.7537
2	Aniline	62-53-3	X22F726	99%	2,002.5 µg/mL	+/- 35.7984
3	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	2,005.0 µg/mL	+/- 35.8431
4	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	2,005.0 µg/mL	+/- 35.8431
5	Benzyl alcohol	100-51-6	094986W07G	99%	2,015.0 µg/mL	+/- 36.0218
6	1,2-Dichlorobenzene	95-50-1	SHBR4446	99%	2,015.0 µg/mL	+/- 36.0218
7	1,2,4-Trichlorobenzene	120-82-1	SHBR1701	99%	2,020.0 µg/mL	+/- 36.1112
8	Azobenzene	103-33-3	BCCL3292	99%	2,005.0 µg/mL	+/- 35.8431

* 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.)

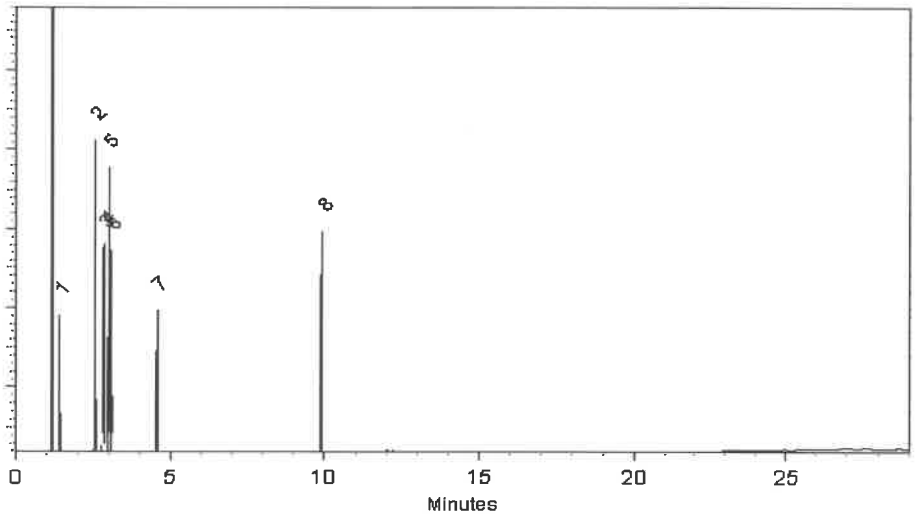
Inj. Temp:
250°C

Det. Temp:
340°C

Det. Type:
FID

Split Vent:
100 ml/min.

Inj. Vol
1µl



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Wilner Torres - Operation Tech I **Date Mixed:** 27-Jul-2025 **Balance Serial #** B345965662

Jennifer Pollino - Operations Tech III - ARM QC **Date Passed:** 30-Jul-2025 REVIEWED

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Catalog No. : 555223 **Lot No.:** A0228451

S13239 ↓ S13268 } RC 08/06/25

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 : August 31, 2027 **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	S250226RSR	99%	1,006.0 µg/mL	+/- 23.0947
2	Atrazine	1912-24-9	5FYWL	99%	1,007.0 µg/mL	+/- 23.1176
3	Benzidine	92-87-5	S250227ECS	99%	1,003.0 µg/mL	+/- 23.0258
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,003.0 µg/mL	+/- 23.0258

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 01-Aug-2025 **Balance:** 1128360905

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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.

Catalog No. : 555223 **Lot No.:** A0228451

S13239 ↓ S13268 } RC 08/06/25

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 : August 31, 2027 **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	S250226RSR	99%	1,006.0 µg/mL	+/- 23.0947
2	Atrazine	1912-24-9	5FYWL	99%	1,007.0 µg/mL	+/- 23.1176
3	Benzidine	92-87-5	S250227ECS	99%	1,003.0 µg/mL	+/- 23.0258
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,003.0 µg/mL	+/- 23.0258

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 01-Aug-2025 **Balance:** 1128360905

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Catalog No. : 555223 **Lot No.:** A0228451

S13239 ↓ S13268 } RC 08/06/25

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 : August 31, 2027 **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	S250226RSR	99%	1,006.0 µg/mL	+/- 23.0947
2	Atrazine	1912-24-9	5FYWL	99%	1,007.0 µg/mL	+/- 23.1176
3	Benzidine	92-87-5	S250227ECS	99%	1,003.0 µg/mL	+/- 23.0258
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,003.0 µg/mL	+/- 23.0258

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 01-Aug-2025 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric

ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555223 **Lot No.:** A0228451

S13239 ↓ S13268 } RC 08/06/25

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 : August 31, 2027 **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	S250226RSR	99%	1,006.0 µg/mL	+/- 23.0947
2	Atrazine	1912-24-9	5FYWL	99%	1,007.0 µg/mL	+/- 23.1176
3	Benzidine	92-87-5	S250227ECS	99%	1,003.0 µg/mL	+/- 23.0258
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,003.0 µg/mL	+/- 23.0258

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 01-Aug-2025 **Balance:** 1128360905

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Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2027 **Storage:** 10°C or colder

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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	S250226RSR	99%	1,006.0 µg/mL	+/- 23.0947
2	Atrazine	1912-24-9	5FYWL	99%	1,007.0 µg/mL	+/- 23.1176
3	Benzidine	92-87-5	S250227ECS	99%	1,003.0 µg/mL	+/- 23.0258
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,003.0 µg/mL	+/- 23.0258

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 01-Aug-2025 **Balance:** 1128360905

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Catalog No. : 555223 **Lot No.:** A0228451

S13239 ↓ S13268 } RC 08/06/25

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 : August 31, 2027 **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	S250226RSR	99%	1,006.0 µg/mL	+/- 23.0947
2	Atrazine	1912-24-9	5FYWL	99%	1,007.0 µg/mL	+/- 23.1176
3	Benzidine	92-87-5	S250227ECS	99%	1,003.0 µg/mL	+/- 23.0258
4	epsilon-Caprolactam	105-60-2	Y16H012	99%	1,003.0 µg/mL	+/- 23.0258

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tom Suckar - Mix Technician **Date Mixed:** 01-Aug-2025 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

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Catalog No. : 555224 **Lot No.:** A0228494

S13269 ↓ S13298 } RC 1 08/06/25

Description : Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : August 31, 2027 **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%	1,002.0 µg/mL	+/- 29.453715
2	Acetophenone	98-86-2	STBH8205	99%	1,001.0 µg/mL	+/- 29.424320
3	Benzaldehyde	100-52-7	RD250319RSR	99%	1,003.0 µg/mL	+/- 29.483110
4	Benzoic acid	65-85-0	MKCX1578	99%	1,001.0 µg/mL	+/- 29.424320
5	Biphenyl	92-52-4	MKCS5928	99%	1,002.0 µg/mL	+/- 29.453715

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Laith Clemente - Operations Technician I **Date Mixed:** 04-Aug-2025 **Balance:** 1128360905

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

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Bellefonte, PA 16823-8812
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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. : 555869 **Lot No.:** A0201702

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2026 **Storage:** 10°C or colder

Ship: Ambient

513148 ↓ 513157 RC 11/13/23

CERTIFIED VALUES

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Hexachlorocyclopentadiene	77-47-4	099063P13G	99%	25,244.0 µg/mL	+/- 450.6896

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Brittany Federinko - Operations Tech I

Date Mixed: 05-Sep-2023 **Balance:** B707717271

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

SHIPPING DOCUMENTS

Q3176
Q3177

USEPA

DateShipped: 9/23/2025

CarrierName: Hand-Delivered

AirbillNo:

CHAIN OF CUSTODY RECORD

Case #:

Contact Name: Leticia Campiglia

Contact Phone: 732-570-4993

No: 2-092325-0004-0049-01

Cooler #: 1 of 2

Lab: Alliance Technical Group LLC (non-CLP)

Lab Phone: 908-789-8900

Lab #	Sample #	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	EME-TS12-01	Percent Moisture	Soil	9/23/2025	12:08	1	4 oz jar w/ septum	4 C	
	EME-TS12-01	TAL SVOCs, PCBs, Pesticides	Soil	9/23/2025	12:08	2	8 oz amber glass jar	4 C	
	EME-TS12-01	TAL Metals + Hg and Cn	Soil	9/23/2025	12:08	1	8 oz clear glass jar	4 C	
	EME-TS12-01	EPH	Soil	9/23/2025	12:08	1	4 oz glass jar	4 C	
	EME-TS12-01	SPLP VOCs	Soil	9/23/2025	12:08	3	5 g Encore sampler	4 C	
	EME-TS12-01	SPLP SVOCs, Pesticides, PCBs	Soil	9/23/2025	12:08	2	8 oz amber glass jar	4 C	
	EME-TS12-01	SPLP Metals + Hg and Cn	Soil	9/23/2025	12:08	1	8 oz clear glass jar	4 C	
	EME-TS12-01	SPLP EPH	Soil	9/23/2025	12:08	1	4 oz glass jar	4 C	
	EME-TS12-01	TAL VOCs,	Soil	9/23/2025	12:08	3	5 g Encore sampler	4 C	
	EME-TS13-01	SPLP VOCs	Soil	9/23/2025	12:20	3	5 g Encore sampler	4 C	
	EME-TS13-01	TAL VOCs,	Soil	9/23/2025	12:20	3	5 g Encore sampler	4 C	
	EME-TS13-01	Percent Moisture	Soil	9/23/2025	12:20	1	4 oz jar w/ septum	4 C	
	EME-TS13-01	TAL SVOCs, PCBs, Pesticides	Soil	9/23/2025	12:20	2	8 oz amber glass jar	4 C	
	EME-TS13-01	EPH	Soil	9/23/2025	12:20	1	4 oz glass jar	4 C	
	EME-TS13-01	SPLP SVOCs, Pesticides, PCBs	Soil	9/23/2025	12:20	2	8 oz amber glass jar	4 C	
	EME-TS13-01	SPLP Metals + Hg and Cn	Soil	9/23/2025	12:20	1	8 oz clear glass jar	4 C	
	EME-TS13-01	SPLP EPH	Soil	9/23/2025	12:20	1	4 oz glass jar	4 C	
	EME-TS13-01	TAL Metals + Hg and Cn	Soil	9/23/2025	12:20	1	8 oz clear glass jar	4 C	

Special Instructions: RFP # 916. Please email results to leticia.campiglia@westonsolutions.com, smita.sumbaly@westonsolutions.com, ronan.clynch@westonsolutions.com and michael.lang@westonsolutions.com.
7 day preliminary TAT.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All samples	LC / START VI Weston	9/23/25 1700		9-23-25 1700	1.5°C IR GUN #1
					custody seals intact
					Temp Blk present

Q3176
Q3177

USEPA

DateShipped: 9/23/2025

CarrierName: Hand-Delivered

AirbillNo:

CHAIN OF CUSTODY RECORD

Case #:

Contact Name: Leticia Campiglia

Contact Phone: 732-570-4993

No: 2-092325-0004-0049-01

Cooler #: 1 of 2

Lab: Alliance Technical Group LLC (non-CLP)

Lab Phone: 908-789-8900

Lab #	Sample #	Analyses	Matrix	Sample Date	Sample Time	Numb Cont	Container	Preservative	Lab QC
	EME-TS14-02	SPLP Metals + Hg and Cn	Soil	9/23/2025	12:57	1	8 oz clear glass jar	4 C	
	EME-TS14-02	TAL VOCs,	Soil	9/23/2025	12:57	3	5 g Encore sampler	4 C	
	EME-TS14-02	Percent Moisture	Soil	9/23/2025	12:57	1	4 oz jar w/ septum	4 C	
	EME-TS14-02	TAL SVOCs, PCBs, Pesticides	Soil	9/23/2025	12:57	2	8 oz amber glass jar	4 C	
	EME-TS14-02	EPH	Soil	9/23/2025	12:57	1	4 oz glass jar	4 C	
	EME-TS14-02	SPLP VOCs	Soil	9/23/2025	12:57	3	5 g Encore sampler	4 C	
	EME-TS14-02	SPLP SVOCs, Pesticides, PCBs	Soil	9/23/2025	12:57	2	8 oz amber glass jar	4 C	
	EME-TS14-02	SPLP EPH	Soil	9/23/2025	12:57	1	4 oz glass jar	4 C	
	EME-TS14-02	TAL Metals + Hg and Cn	Soil	9/23/2025	12:57	1	8 oz clear glass jar	4 C	

9/23/25

Special Instructions: RFP # 916. Please email results to leticia.campiglia@westonsolutions.com, smita.sumbaly@westonsolutions.com, ronan.clynch@westonsolutions.com and michael.lang@westonsolutions.com.
7 day preliminary TAT.

SAMPLES TRANSFERRED FROM

CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
All samples	START VI / Weston	9/23/25 1700		9-23-25 1700	15° C DL GUN #1 custody seals intact Temp blk. present

284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312