

DATA PACKAGE
SEMI-VOLATILE ORGANICS

PROJECT NAME : NYCDDC SANTWOBR BROOKLYN BRIDGE BBMCR

RU2 ENGINEERING, LLC
2 Melinda Drive

Monroe Township, NJ - 08831
Phone No: 732-261-2236

ORDER ID : Q1207
ATTENTION : Rutu Manani



Laboratory Certification ID # 20012



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Cover Page

Order ID : Q1207

Project ID : NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Client : RU2 Engineering, LLC

Lab Sample Number

Q1207-01
Q1207-02
Q1207-03
Q1207-04
Q1207-05
Q1207-06
Q1207-07
Q1207-08
Q1207-09
Q1207-10
Q1207-11
Q1207-12
Q1207-13
Q1207-14
Q1207-15
Q1207-16
Q1207-17
Q1207-18
Q1207-19
Q1207-20

Client Sample Number

JPP-2.1-012725
JPP-2.1-012725
JPP-2.1-012725
JPP-2.1-012725
JPP-5.1-012725
JPP-5.1-012725
JPP-5.1-012725
JPP-5.1-012725
JPP-4.5-012725
JPP-4.5-012725
JPP-4.5-012725
JPP-4.5-012725
JPP-16.2-012725
JPP-16.2-012725
JPP-16.2-012725
JPP-16.2-012725
JPP-20.2-012725
JPP-20.2-012725
JPP-20.2-012725
JPP-20.2-012725

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: 2/10/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

CASE NARRATIVE

RU2 Engineering, LLC

Project Name: NYCDDC SANTWOBR Brooklyn Bridge BBMCR

Project # N/A

Chemtech Project # Q1207

Test Name: TCLP BNA

A. Number of Samples and Date of Receipt:

20 Solid samples were received on 01/28/2025.

B. Parameters

According to the Chain of Custody document, the following analyses were requested: Corrosivity, Diesel Range Organics, Gasoline Range Organics, Ignitability, Mercury, Metals ICP-TAL, METALS-TAL, Paint Filter, PCB, Pesticide-TCL, RCRA CHARACTERISTICS, Reactive Cyanide, Reactive Sulfide, SVOC-TCL BNA -20, TCLP BNA, TCLP Extraction, TCLP Herbicide, TCLP ICP Metals, TCLP Mercury, TCLP Pesticide, TCLP VOA, TCLP ZHE Extraction, TCLP-FULL and VOCMS Group1. This data package contains results for TCLP BNA.

C. Analytical Techniques:

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

D. QA/ QC Samples:

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD for {Q1205-02MSD} with File ID: BF141348.D met criteria except for 2,4,5-Trichlorophenol[21%], Pyridine[40%], RPD failed due to result difference between MS and MSD result , therefor no further corrective action was required.

The Blank Spike met requirements for all samples .

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

The Initial Calibration met the requirements .

The Continuous Calibration File ID BF141336.D met the requirements except for Pentachlorophenol , Associated samples does not have hit for this compound, no further corrective action was required.

The Tuning criteria met requirements.

E. Additional Comments:

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

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

F. Manual Integration Comments:

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

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

Signature_____

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 flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.
B	Indicates the analyte was found in the blank as well as the sample report as “12 B”.
E	Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.
D	This flag identifies all compounds identified in an analysis at a secondary dilution factor.
P	This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.
N	This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.
A	This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.
Q	Indicates the LCS did not meet the control limits requirements

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

CHEMTECH PROJECT NUMBER: Q1207

MATRIX: TCLP

METHOD: 8270E/3510/1311

		NA	NO	YES
1.	Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)			✓
2.	GC/MS Tuning Specifications. DFTPP Meet Criteria. (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ)			✓
3.	GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series.			✓
4.	GC/MS Calibration - Initial Calibration performed within 30 days before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series.			✓
5.	GC/MS Calibration Requirements.			✓
	The Initial Calibration met the requirements .			
	The Continuous Calibration File ID BF141336.D met the requirements except for Pentachlorophenol , Associated samples does not have hit for this compound, no further corrective action was required.			
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 Blank Spike met requirements for all samples .			
	The RPD for {Q1205-02MSD} with File ID: BF141348.D met criteria except for 2,4,5-Trichlorophenol[21%], Pyridine[40%], RPD failed due to result difference between MS and MSD result , therefor no further corrective action was required.			
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.

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

QA REVIEW

Date

APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: Q1207

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 Custody

✓

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: 02/10/2025

LAB CHRONICLE

OrderID:	Q1207	OrderDate:	1/28/2025 11:40:00 AM
Client:	RU2 Engineering, LLC	Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR
Contact:	Rutu Manani	Location:	E11,VOA Ref. #2 Soil

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q1207-04	JPP-2.1-012725	TCLP	TCLP BNA	8270E	01/27/25	01/29/25	02/05/25	01/28/25
Q1207-08	JPP-5.1-012725	TCLP	TCLP BNA	8270E	01/27/25	01/29/25	02/05/25	01/28/25
Q1207-12	JPP-4.5-012725	TCLP	TCLP BNA	8270E	01/27/25	01/29/25	02/05/25	01/28/25
Q1207-16	JPP-16.2-012725	TCLP	TCLP BNA	8270E	01/27/25	01/29/25	02/05/25	01/28/25
Q1207-20	JPP-20.2-012725	TCLP	TCLP BNA	8270E	01/27/25	01/29/25	02/05/25	01/28/25



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

Hit Summary Sheet SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

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



QC SUMMARY

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Surrogate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
PB166318TB	PB166318TB	2-Fluorophenol	150	135	90		10	139
		Phenol-d6	150	130	86		10	134
		Nitrobenzene-d5	100	96.2	96		49	133
		2-Fluorobiphenyl	100	97.9	98		52	132
		2,4,6-Tribromophenol	150	142	95		44	137
		Terphenyl-d14	100	96.0	96		48	125
PB166354BL	PB166354BL	2-Fluorophenol	150	125	83		10	139
		Phenol-d6	150	122	81		10	134
		Nitrobenzene-d5	100	85.9	86		49	133
		2-Fluorobiphenyl	100	82.9	83		52	132
		2,4,6-Tribromophenol	150	125	84		44	137
		Terphenyl-d14	100	88.0	88		48	125
PB166354BS	PB166354BS	2-Fluorophenol	150	135	90		10	139
		Phenol-d6	150	128	85		10	134
		Nitrobenzene-d5	100	96.9	97		49	133
		2-Fluorobiphenyl	100	96.5	96		52	132
		2,4,6-Tribromophenol	150	159	106		44	137
		Terphenyl-d14	100	95.9	96		48	125
Q1205-02MS	VNJ-236MS	2-Fluorophenol	150	125	84		10	139
		Phenol-d6	150	121	81		10	134
		Nitrobenzene-d5	100	89.2	89		49	133
		2-Fluorobiphenyl	100	86.4	86		52	132
		2,4,6-Tribromophenol	150	126	84		44	137
		Terphenyl-d14	100	75.4	75		48	125
Q1205-02MSD	VNJ-236MSD	2-Fluorophenol	150	112	75		10	139
		Phenol-d6	150	103	69		10	134
		Nitrobenzene-d5	100	85.5	86		49	133
		2-Fluorobiphenyl	100	80.9	81		52	132
		2,4,6-Tribromophenol	150	119	79		44	137
		Terphenyl-d14	100	69.4	69		48	125
Q1207-04	JPP-2.1-012725	2-Fluorophenol	150	145	96		10	139
		Phenol-d6	150	136	91		10	134
		Nitrobenzene-d5	100	110	110		49	133
		2-Fluorobiphenyl	100	109	109		52	132
		2,4,6-Tribromophenol	150	179	119		44	137
		Terphenyl-d14	100	118	118		48	125
Q1207-08	JPP-5.1-012725	2-Fluorophenol	150	127	84		10	139
		Phenol-d6	150	115	76		10	134
		Nitrobenzene-d5	100	100	100		49	133
		2-Fluorobiphenyl	100	96.6	97		52	132
		2,4,6-Tribromophenol	150	155	103		44	137
		Terphenyl-d14	100	105	105		48	125
Q1207-12	JPP-4.5-012725	2-Fluorophenol	150	146	98		10	139
		Phenol-d6	150	133	89		10	134
		Nitrobenzene-d5	100	113	113		49	133
		2-Fluorobiphenyl	100	112	112		52	132
		2,4,6-Tribromophenol	150	177	118		44	137
		Terphenyl-d14	100	119	119		48	125
Q1207-16	JPP-16.2-012725	2-Fluorophenol	150	141	94		10	139
		Phenol-d6	150	129	86		10	134
		Nitrobenzene-d5	100	109	109		49	133

Surrogate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: 8270E

Lab Sample ID	Client ID	Parameter	Spike (PPM)	Result (PPM)	Recovery (%)	Qual	Limits (%)	
							Low	High
Q1207-16	JPP-16.2-012725	2-Fluorobiphenyl	100	107	107		52	132
		2,4,6-Tribromophenol	150	170	114		44	137
		Terphenyl-d14	100	116	116		48	125
Q1207-20	JPP-20.2-012725	2-Fluorophenol	150	152	101		10	139
		Phenol-d6	150	136	91		10	134
		Nitrobenzene-d5	100	116	116		49	133
		2-Fluorobiphenyl	100	115	115		52	132
		2,4,6-Tribromophenol	150	184	123		44	137
		Terphenyl-d14	100	125	125		48	125

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID: Q1205-02MS		Client Sample ID: VNJ-236MS						DataFile: BF141347.D			
Pyridine	500	0	240	ug/L	48				10	109	
1,4-Dichlorobenzene	500	0	370	ug/L	74				55	125	
2-Methylphenol	500	0	430	ug/L	86				37	126	
3+4-Methylphenols	500	0	480	ug/L	96				31	127	
Hexachloroethane	500	0	380	ug/L	76				49	110	
Nitrobenzene	500	0	420	ug/L	84				62	112	
Hexachlorobutadiene	500	0	400	ug/L	80				52	125	
2,4,6-Trichlorophenol	500	0	470	ug/L	94				78	112	
2,4,5-Trichlorophenol	500	0	470	ug/L	94				71	111	
2,4-Dinitrotoluene	500	0	450	ug/L	90				50	142	
Hexachlorobenzene	500	0	490	ug/L	98				72	115	
Pentachlorophenol	1000	0	940	ug/L	94				25	139	

Matrix Spike/Matrix Spike Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: SW8270E

Parameter	Spike	Sample Result	Result	Units	Rec	Rec Qual	RPD	RPD Qual	Low	Limits High	RPD
Lab Sample ID:	Q1205-02MSD	Client Sample ID:	VNJ-236MSD					DataFile:	BF141348.D		
Pyridine	500	0	360	ug/L	72		40	*	10	109	20
1,4-Dichlorobenzene	500	0	360	ug/L	72		3		55	125	20
2-Methylphenol	500	0	370	ug/L	74		15		37	126	20
3+4-Methylphenols	500	0	400	ug/L	80		18		31	127	20
Hexachloroethane	500	0	360	ug/L	72		5		49	110	20
Nitrobenzene	500	0	360	ug/L	72		15		62	112	20
Hexachlorobutadiene	500	0	360	ug/L	72		11		52	125	20
2,4,6-Trichlorophenol	500	0	390	ug/L	78		19		78	112	20
2,4,5-Trichlorophenol	500	0	380	ug/L	76		21	*	71	111	20
2,4-Dinitrotoluene	500	0	370	ug/L	74		20		50	142	20
Hexachlorobenzene	500	0	410	ug/L	82		18		72	115	20
Pentachlorophenol	1000	0	770	ug/L	77		20		25	139	20

Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q1207

Client: RU2 Engineering, LLC

Analytical Method: 8270E

DataFile: BF141445.D

Lab Sample ID	Parameter	Spike	Result	Unit	Rec	RPD	Qual	RPD	Limits		
								Qual	Low	High	RPD
PB166354BS	Pyridine	50	38.6	ug/L	77				29	97	
	1,4-Dichlorobenzene	50	46.7	ug/L	93				76	103	
	2-Methylphenol	50	45.8	ug/L	92				69	109	
	3+4-Methylphenols	50	48.2	ug/L	96				67	106	
	Hexachloroethane	50	48.9	ug/L	98				76	118	
	Nitrobenzene	50	47.0	ug/L	94				58	106	
	Hexachlorobutadiene	50	49.7	ug/L	99				69	101	
	2,4,6-Trichlorophenol	50	50.3	ug/L	101				61	110	
	2,4,5-Trichlorophenol	50	49.8	ug/L	100				70	106	
	2,4-Dinitrotoluene	50	52.3	ug/L	105				60	115	
	Hexachlorobenzene	50	49.8	ug/L	100				73	106	
	Pentachlorophenol	100	100	ug/L	100				47	114	

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB166354BL

Lab Name: CHEMTECH

Contract: RUTW01

Lab Code: CHEM Case No.: Q1207

SAS No.: Q1207 SDG NO.: Q1207

Lab File ID: BF141337.D

Lab Sample ID: PB166354BL

Instrument ID: BNA_F

Date Extracted: 01/29/2025

Matrix: (soil/water) water

Date Analyzed: 01/31/2025

Level: (low/med) LOW

Time Analyzed: 17:46

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
VNJ-236MS	Q1205-02MS	BF141347.D	01/31/2025
VNJ-236MSD	Q1205-02MSD	BF141348.D	01/31/2025
PB166354BS	PB166354BS	BF141445.D	02/05/2025
PB166318TB	PB166318TB	BF141448.D	02/05/2025
JPP-2.1-012725	Q1207-04	BF141452.D	02/05/2025
JPP-5.1-012725	Q1207-08	BF141453.D	02/05/2025
JPP-20.2-012725	Q1207-20	BF141454.D	02/05/2025
JPP-4.5-012725	Q1207-12	BF141455.D	02/05/2025
JPP-16.2-012725	Q1207-16	BF141456.D	02/05/2025

COMMENTS: _____



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: RUTW01Lab Code: CHEMSAS No.: Q1207SDG NO.: Q1207Lab File ID: BF141289.DDFTPP Injection Date: 01/29/2025Instrument ID: BNA_FDFTPP Injection Time: 10:03

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	41.1
68	Less than 2.0% of mass 69	0.6 (1.7) 1
69	Mass 69 relative abundance	35.1
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.1
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.6
275	10.0 - 60.0% of mass 198	26.5
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	13.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	16.2 (19.4) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDICC2.5	SSTDICC2.5	BF141290.D	01/29/2025	10:30
SSTDICC005	SSTDICC005	BF141291.D	01/29/2025	10:56
SSTDICC010	SSTDICC010	BF141292.D	01/29/2025	11:49
SSTDICC020	SSTDICC020	BF141293.D	01/29/2025	15:17
SSTDICCC040	SSTDICCC040	BF141294.D	01/29/2025	15:45
SSTDICC050	SSTDICC050	BF141295.D	01/29/2025	16:11
SSTDICC060	SSTDICC060	BF141296.D	01/29/2025	16:38
SSTDICC080	SSTDICC080	BF141297.D	01/29/2025	17:05



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

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: RUTW01Lab Code: CHEMSAS No.: Q1207 SDG NO.: Q1207Lab File ID: BF141335.DDFTPP Injection Date: 01/31/2025Instrument ID: BNA_FDFTPP Injection Time: 16:53

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	46.2
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	38.1
70	Less than 2.0% of mass 69	0.3 (0.7) 1
127	10.0 - 80.0% of mass 198	49
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.8
275	10.0 - 60.0% of mass 198	25.8
365	Greater than 1% of mass 198	2.8
441	Present, but less than mass 443	11.7
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.6 (19.7) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141336.D	01/31/2025	17:19
PB166354BL	PB166354BL	BF141337.D	01/31/2025	17:46
VNJ-236MS	Q1205-02MS	BF141347.D	01/31/2025	22:16
VNJ-236MSD	Q1205-02MSD	BF141348.D	01/31/2025	22:43



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Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: RUTW01Lab Code: CHEMSAS No.: Q1207 SDG NO.: Q1207Lab File ID: BF141434.DDFTPP Injection Date: 02/05/2025Instrument ID: BNA_FDFTPP Injection Time: 09:36

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	42.7
68	Less than 2.0% of mass 69	0.7 (2) 1
69	Mass 69 relative abundance	35.1
70	Less than 2.0% of mass 69	0.1 (0.4) 1
127	10.0 - 80.0% of mass 198	48.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.4
275	10.0 - 60.0% of mass 198	26.8
365	Greater than 1% of mass 198	2.8
441	Present, but less than mass 443	12.5
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.5 (19.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141435.D	02/05/2025	10:02
PB166354BS	PB166354BS	BF141445.D	02/05/2025	14:24



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: RUTW01Lab Code: CHEMSAS No.: Q1207 SDG NO.: Q1207Lab File ID: BF141446.DDFTPP Injection Date: 02/05/2025Instrument ID: BNA_FDFTPP Injection Time: 14:50

m/e	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10.0 - 80.0% of mass 198	40.8
68	Less than 2.0% of mass 69	0.7 (1.9) 1
69	Mass 69 relative abundance	36.3
70	Less than 2.0% of mass 69	0.2 (0.6) 1
127	10.0 - 80.0% of mass 198	47.7
197	Less than 2.0% of mass 198	0.0
198	Base Peak, 100% relative abundance	100
199	5.0 to 9.0% of mass 198	6.3
275	10.0 - 60.0% of mass 198	26.9
365	Greater than 1% of mass 198	3.2
441	Present, but less than mass 443	12.6
442	Greater than 50% of mass 198	100
443	15.0 - 24.0% of mass 442	14.9 (18.2) 2

1-Value is % mass 69

2-Value is % mass 442

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

EPA SAMPLE NO.	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
SSTDCCC040	SSTDCCC040	BF141447.D	02/05/2025	15:16
PB166318TB	PB166318TB	BF141448.D	02/05/2025	15:43
JPP-2.1-012725	Q1207-04	BF141452.D	02/05/2025	17:35
JPP-5.1-012725	Q1207-08	BF141453.D	02/05/2025	18:01
JPP-20.2-012725	Q1207-20	BF141454.D	02/05/2025	18:27
JPP-4.5-012725	Q1207-12	BF141455.D	02/05/2025	18:54
JPP-16.2-012725	Q1207-16	BF141456.D	02/05/2025	19:20

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/31/2025

Lab File ID: BF141336.D Time Analyzed: 17:19

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	140033	6.798	558386	8.08	299701	9.84
UPPER LIMIT	280066	7.298	1116770	8.581	599402	10.339
LOWER LIMIT	70016.5	6.298	279193	7.581	149851	9.339
EPA SAMPLE NO.						
01 PB166354BL	138010	6.80	554699	8.08	302564	9.83
02 VNJ-236MS	142849	6.80	564006	8.08	294756	9.84
03 VNJ-236MSD	153925	6.80	605647	8.08	316012	9.84

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

EPA Sample No.: SSTDCCC040 Date Analyzed: 01/31/2025

Lab File ID: BF141336.D Time Analyzed: 17:19

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	493954	11.322	281629	13.968	286623	15.433
UPPER LIMIT	987908	11.822	563258	14.468	573246	15.933
LOWER LIMIT	246977	10.822	140815	13.468	143312	14.933
EPA SAMPLE NO.						
01 PB166354BL	518908	11.32	314414	13.96	272271	15.43
02 VNJ-236MS	431674	11.33	275611	13.97	282127	15.42
03 VNJ-236MSD	461856	11.33	294849	13.97	278615	15.42

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/05/2025

Lab File ID: BF141435.D Time Analyzed: 10:02

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	78610	6.792	301871	8.08	162758	9.83
UPPER LIMIT	157220	7.292	603742	8.575	325516	10.328
LOWER LIMIT	39305	6.292	150936	7.575	81379	9.328
EPA SAMPLE NO.						
01 PB166354BS	68626	6.79	266966	8.08	145742	9.83

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/05/2025

Lab File ID: BF141435.D Time Analyzed: 10:02

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	271503	11.316	168458	13.963	170248	15.427
UPPER LIMIT	543006	11.816	336916	14.463	340496	15.927
LOWER LIMIT	135752	10.816	84229	13.463	85124	14.927
EPA SAMPLE NO.						
01 PB166354BS	256036	11.32	181162	13.96	151994	15.43

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.

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/05/2025

Lab File ID: BF141447.D Time Analyzed: 15:16

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	82418	6.792	312528	8.08	169230	9.83
UPPER LIMIT	164836	7.292	625056	8.575	338460	10.328
LOWER LIMIT	41209	6.292	156264	7.575	84615	9.328
EPA SAMPLE NO.						
01 PB166318TB	70021	6.79	275257	8.07	148604	9.83
02 JPP-2.1-012725	67166	6.79	273499	8.07	146857	9.83
03 JPP-5.1-012725	79438	6.79	313809	8.07	169630	9.82
04 JPP-4.5-012725	67139	6.79	265210	8.07	142949	9.82
05 JPP-16.2-012725	70116	6.79	274847	8.07	148681	9.82
06 JPP-20.2-012725	67649	6.79	271784	8.07	146327	9.82

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.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG NO.: Q1207

EPA Sample No.: SSTDCCC040 Date Analyzed: 02/05/2025

Lab File ID: BF141447.D Time Analyzed: 15:16

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	293274	11.316	189132	13.963	170936	15.421
UPPER LIMIT	586548	11.816	378264	14.463	341872	15.921
LOWER LIMIT	146637	10.816	94566	13.463	85468	14.921
EPA SAMPLE NO.						
01 PB166318TB	258070	11.31	172413	13.96	140295	15.42
02 JPP-2.1-012725	254047	11.31	150906	13.96	156406	15.43
03 JPP-5.1-012725	288034	11.31	170634	13.96	176168	15.43
04 JPP-4.5-012725	242726	11.31	146889	13.96	144251	15.43
05 JPP-16.2-012725	249488	11.31	146891	13.96	157396	15.43
06 JPP-20.2-012725	252173	11.31	148665	13.96	147857	15.42

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	PB166318TB	SDG No.:	Q1207
Lab Sample ID:	PB166318TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141448.D	1	01/29/25 12:35	02/05/25 15:43	PB166354

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	50.0	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	50.0	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	50.0	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	100	U	11.5	100	ug/L
67-72-1	Hexachloroethane	50.0	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	50.0	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	50.0	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.0	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	50.0	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	50.0	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	100	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	135		10 - 139	90%	SPK: 150
13127-88-3	Phenol-d6	130		10 - 134	86%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.2		49 - 133	96%	SPK: 100
321-60-8	2-Fluorobiphenyl	97.9		52 - 132	98%	SPK: 100
118-79-6	2,4,6-Tribromophenol	142		44 - 137	95%	SPK: 150
1718-51-0	Terphenyl-d14	96.0		48 - 125	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	70000	6.786			
1146-65-2	Naphthalene-d8	275000	8.069			
15067-26-2	Acenaphthene-d10	149000	9.827			
1517-22-2	Phenanthrene-d10	258000	11.31			
1719-03-5	Chrysene-d12	172000	13.957			
1520-96-3	Perylene-d12	140000	15.421			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/29/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/29/25
Client Sample ID:	PB166318TB	SDG No.:	Q1207
Lab Sample ID:	PB166318TB	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141448.D	1	01/29/25 12:35	02/05/25 15:43	PB166354

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\BF020525\
Data File : BF141448.D
Acq On : 05 Feb 2025 15:43
Operator : RC/JU
Sample : PB166318TB
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166318TB

Quant Time: Feb 05 16:59:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.786	152	70021	20.000	ng	-0.02
21) Naphthalene-d8	8.069	136	275257	20.000	ng	#-0.02
39) Acenaphthene-d10	9.827	164	148604	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	258070	20.000	ng	-0.02
76) Chrysene-d12	13.957	240	172413	20.000	ng	-0.02
86) Perylene-d12	15.421	264	140295	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	615283	134.900	ng	0.00
7) Phenol-d6	6.428	99	751657	129.547	ng	-0.01
23) Nitrobenzene-d5	7.351	82	502343	96.207	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	193771	142.232	ng	-0.02
45) 2-Fluorobiphenyl	9.145	172	945516	97.933	ng	-0.02
79) Terphenyl-d14	12.904	244	1073395	96.012	ng	-0.01

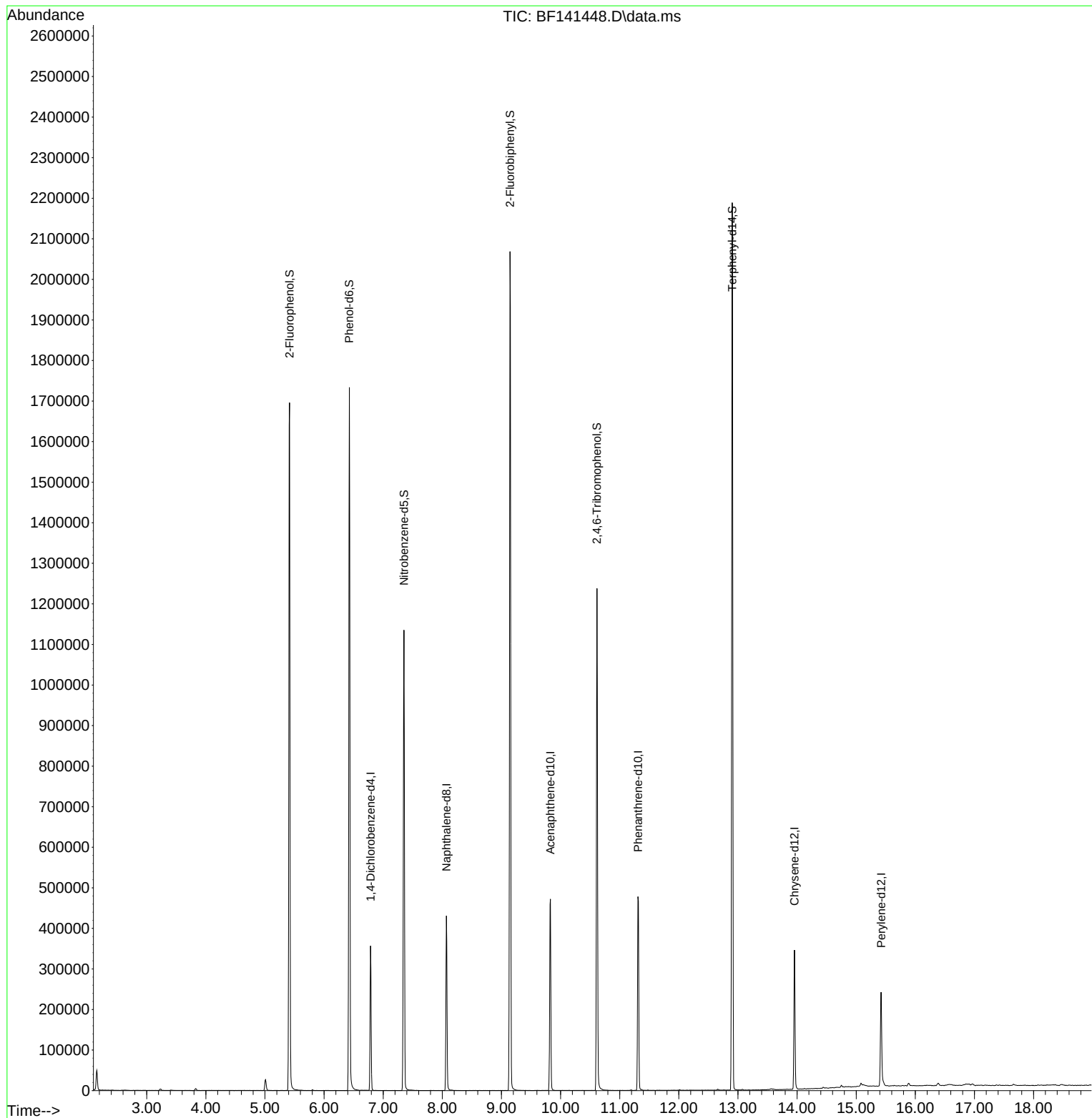
Target Compounds	Qvalue

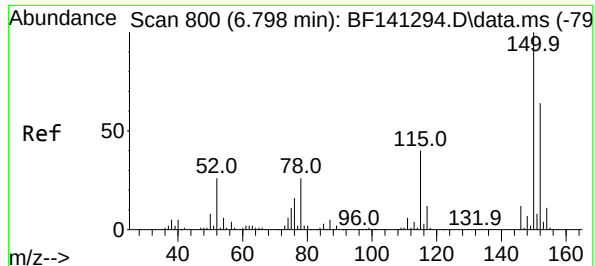
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141448.D
Acq On : 05 Feb 2025 15:43
Operator : RC/JU
Sample : PB166318TB
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166318TB

Quant Time: Feb 05 16:59:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

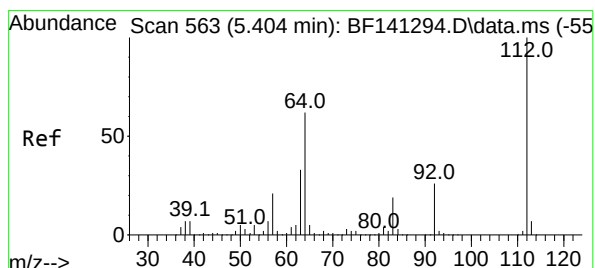
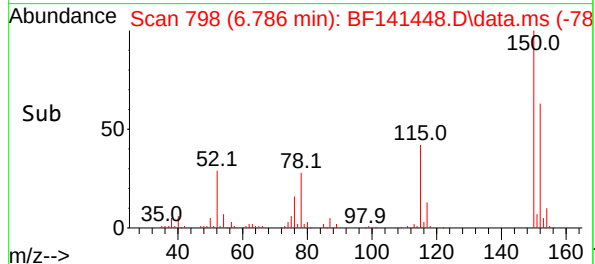
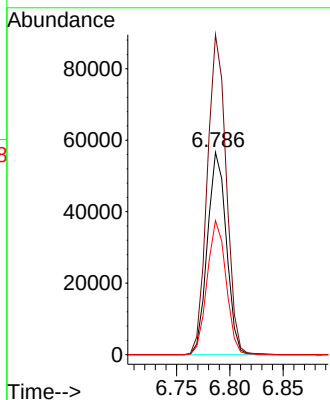
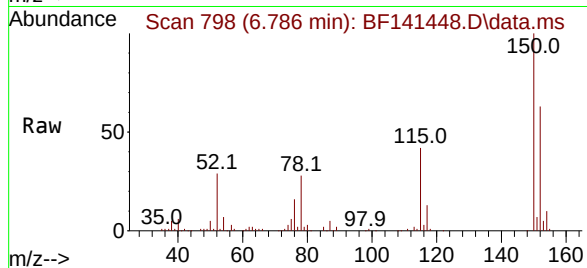




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.786 min Scan# 70
Delta R.T. -0.018 min
Lab File: BF141448.D
Acq: 05 Feb 2025 15:43

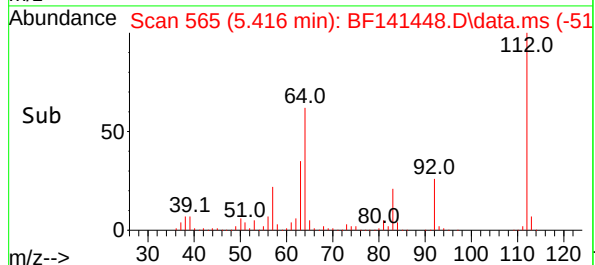
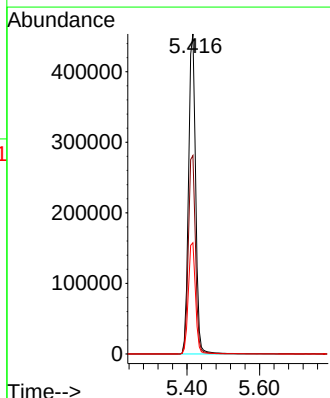
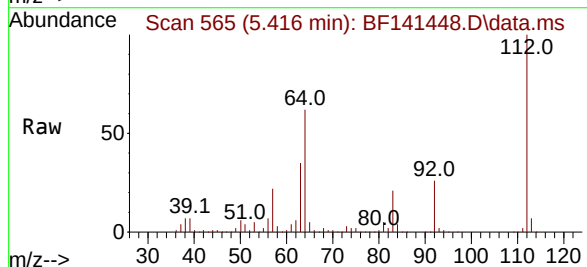
Instrument :
BNA_F
ClientSampleId :
PB166318TB

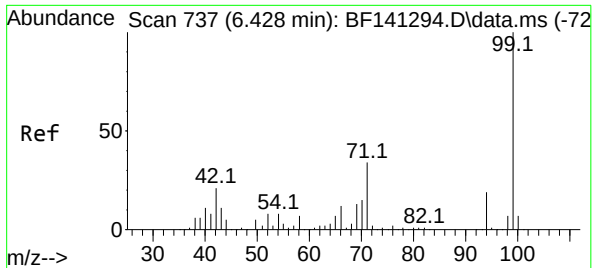
Tgt Ion:152 Resp: 70021
Ion Ratio Lower Upper
152 100
150 158.1 125.9 188.9
115 66.3 49.7 74.5



#5
2-Fluorophenol
Concen: 134.900 ng
RT: 5.416 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF141448.D
Acq: 05 Feb 2025 15:43

Tgt Ion:112 Resp: 615283
Ion Ratio Lower Upper
112 100
64 62.0 49.8 74.8
63 34.7 26.1 39.1





#7

Phenol-d6

Concen: 129.547 ng

RT: 6.428 min Scan# 71

Delta R.T. -0.012 min

Lab File: BF141448.D

Acq: 05 Feb 2025 15:43

Instrument :

BNA_F

ClientSampleId :

PB166318TB

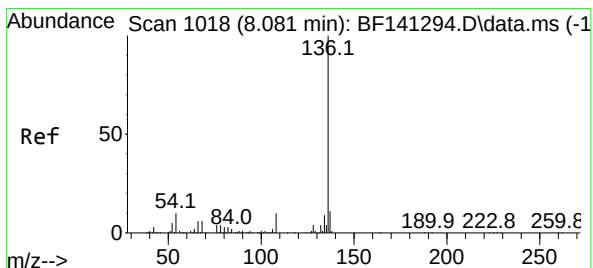
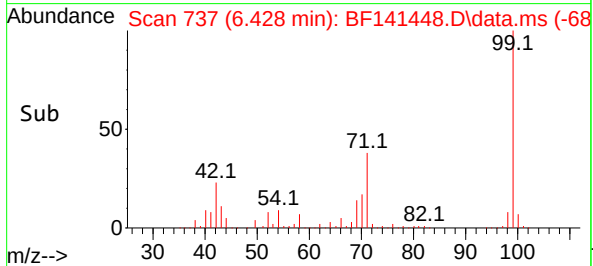
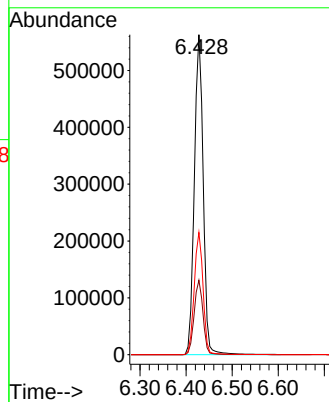
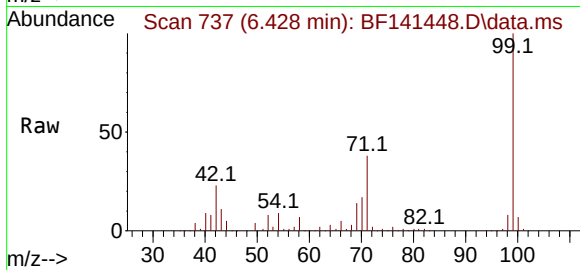
Tgt Ion: 99 Resp: 751657

Ion Ratio Lower Upper

99 100

42 23.2 17.1 25.7

71 38.2 26.9 40.3



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.069 min Scan# 1016

Delta R.T. -0.018 min

Lab File: BF141448.D

Acq: 05 Feb 2025 15:43

Tgt Ion: 136 Resp: 275257

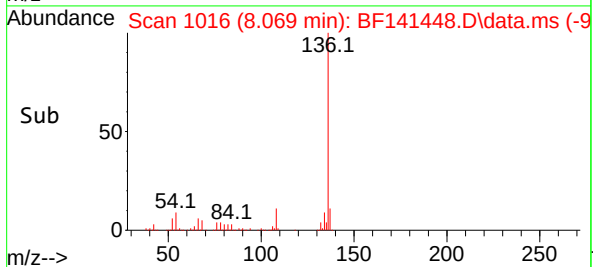
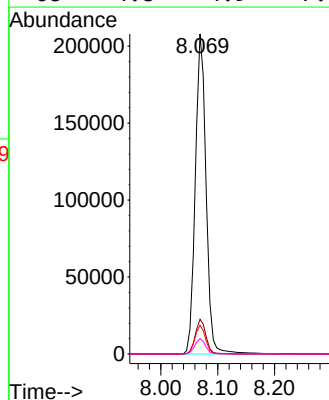
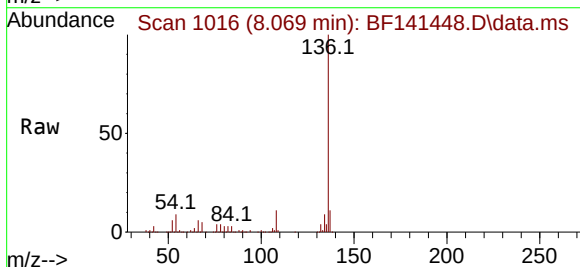
Ion Ratio Lower Upper

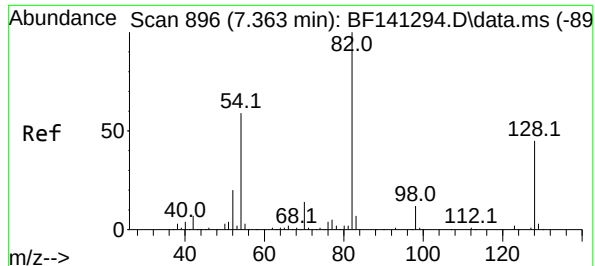
136 100

137 10.8 8.6 13.0

54 8.9 7.8 11.8

68 4.8 4.9 7.3#





#23

Nitrobenzene-d5

Concen: 96.207 ng

RT: 7.351 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF141448.D

Acq: 05 Feb 2025 15:43

Instrument :

BNA_F

ClientSampleId :

PB166318TB

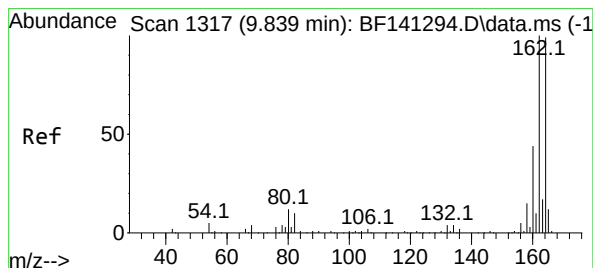
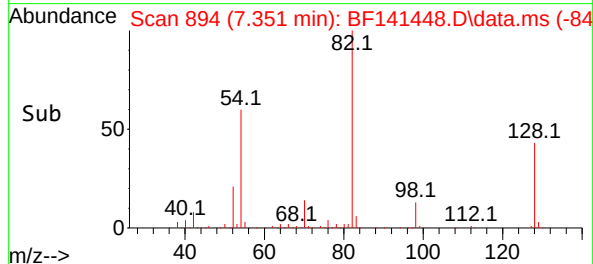
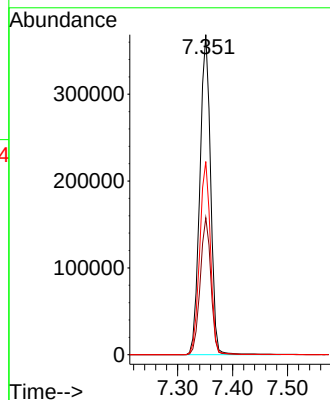
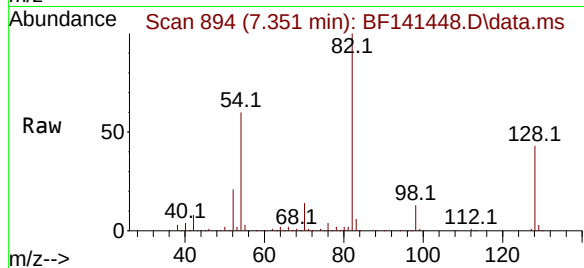
Tgt Ion: 82 Resp: 502343

Ion Ratio Lower Upper

82 100

128 42.8 35.7 53.5

54 60.3 47.1 70.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.827 min Scan# 1315

Delta R.T. -0.012 min

Lab File: BF141448.D

Acq: 05 Feb 2025 15:43

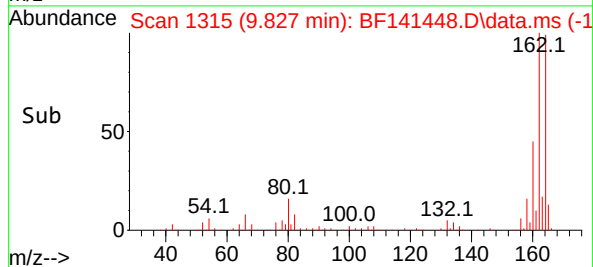
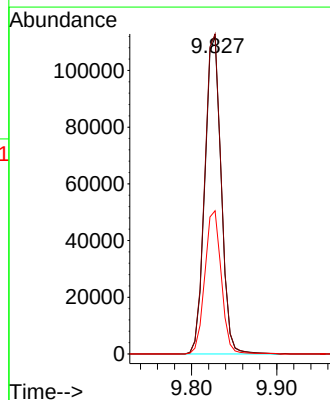
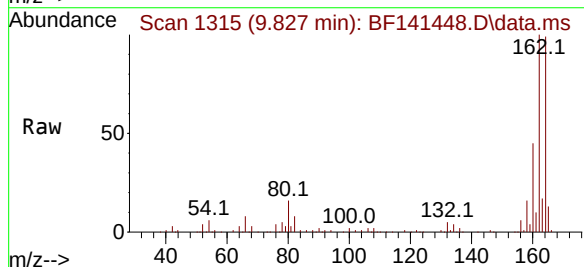
Tgt Ion:164 Resp: 148604

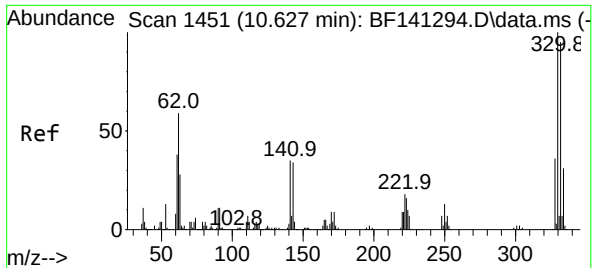
Ion Ratio Lower Upper

164 100

162 100.8 80.6 121.0

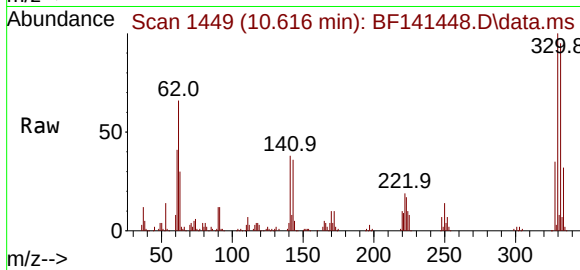
160 45.1 35.8 53.6



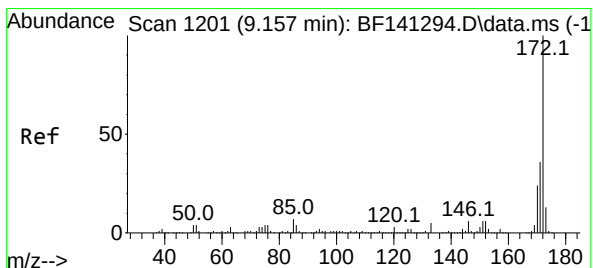
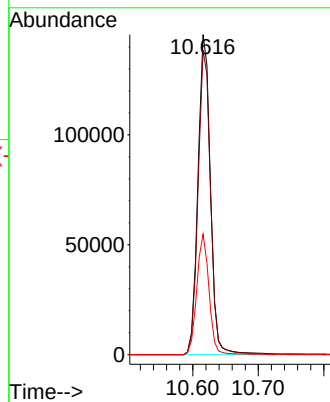
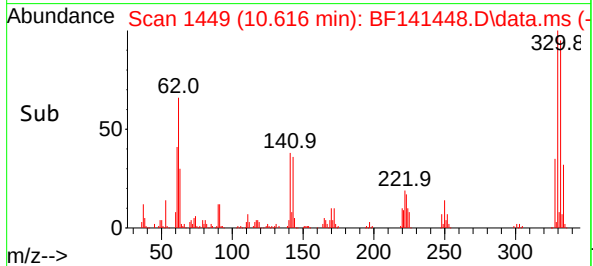


#42
2,4,6-Tribromophenol
Concen: 142.232 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.018 min
Lab File: BF141448.D
Acq: 05 Feb 2025 15:43

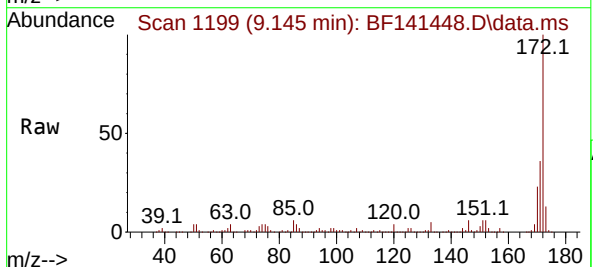
Instrument :
BNA_F
ClientSampleId :
PB166318TB



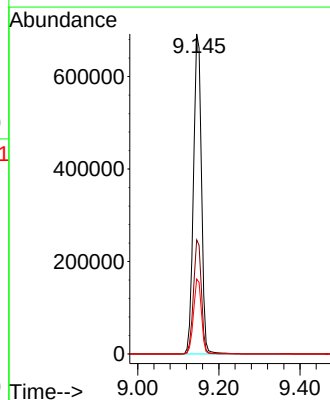
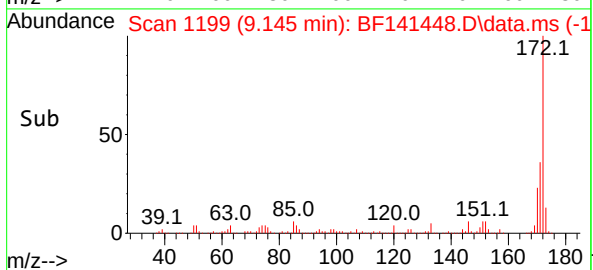
Tgt Ion: 330 Resp: 193771
Ion Ratio Lower Upper
330 100
332 95.3 76.1 114.1
141 36.9 28.8 43.2

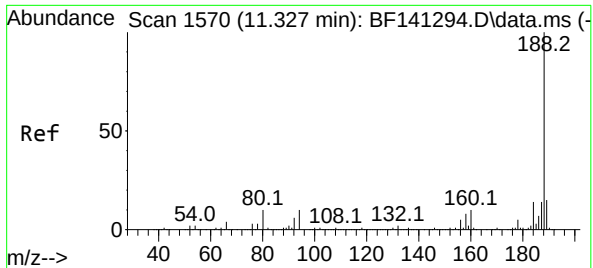


#45
2-Fluorobiphenyl
Concen: 97.933 ng
RT: 9.145 min Scan# 1199
Delta R.T. -0.018 min
Lab File: BF141448.D
Acq: 05 Feb 2025 15:43



Tgt Ion: 172 Resp: 945516
Ion Ratio Lower Upper
172 100
171 35.6 28.8 43.2
170 23.4 19.0 28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF141448.D

Acq: 05 Feb 2025 15:43

Instrument :

BNA_F

ClientSampleId :

PB166318TB

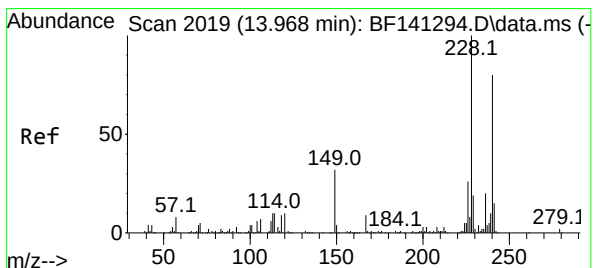
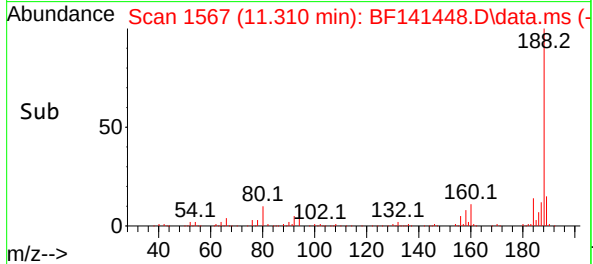
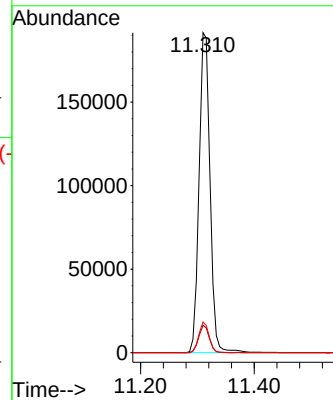
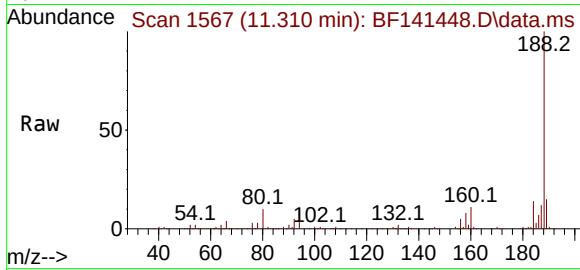
Tgt Ion:188 Resp: 258070

Ion Ratio Lower Upper

188 100

94 8.6 7.8 11.6

80 9.6 8.2 12.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.957 min Scan# 2017

Delta R.T. -0.018 min

Lab File: BF141448.D

Acq: 05 Feb 2025 15:43

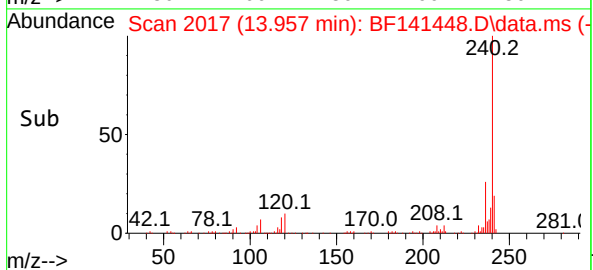
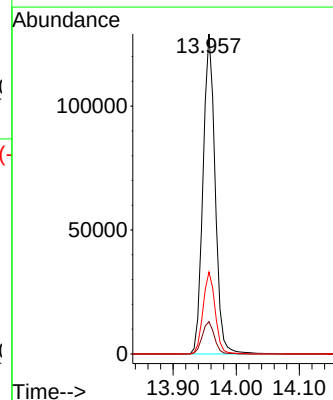
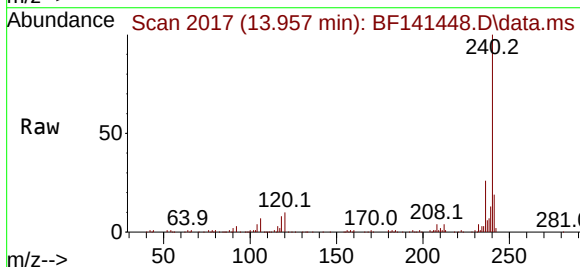
Tgt Ion:240 Resp: 172413

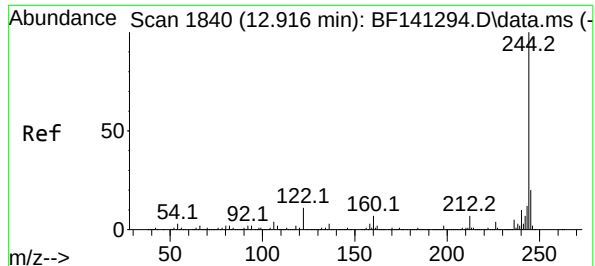
Ion Ratio Lower Upper

240 100

120 10.1 10.0 15.0

236 25.6 19.7 29.5





#79

Terphenyl-d14

Concen: 96.012 ng

RT: 12.904 min Scan# 1838

Delta R.T. -0.012 min

Lab File: BF141448.D

Acq: 05 Feb 2025 15:43

Instrument :

BNA_F

ClientSampleId :

PB166318TB

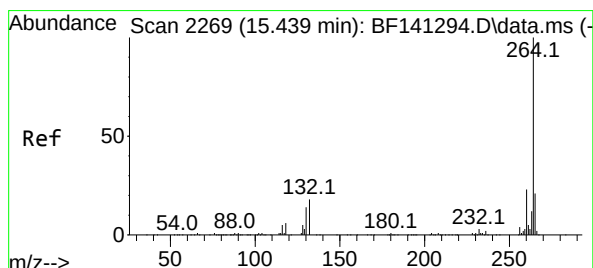
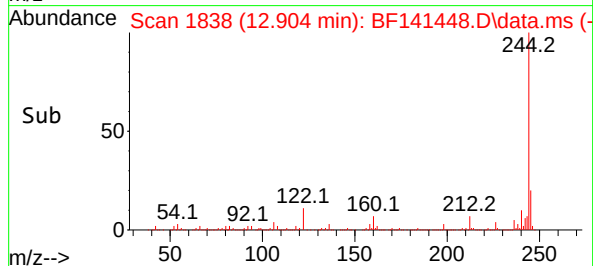
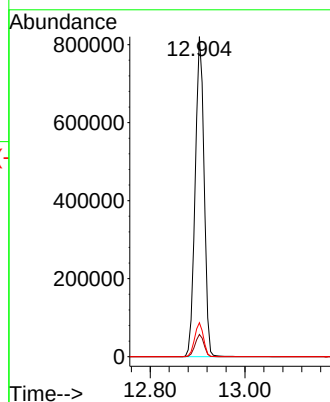
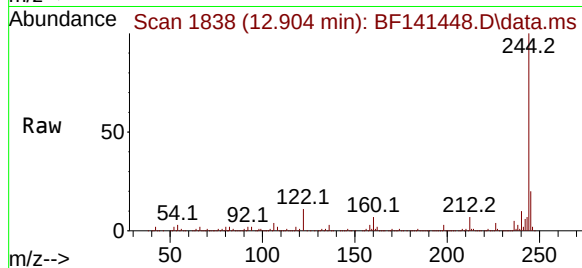
Tgt Ion:244 Resp: 1073395

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

122 10.6 8.8 13.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.421 min Scan# 2266

Delta R.T. -0.018 min

Lab File: BF141448.D

Acq: 05 Feb 2025 15:43

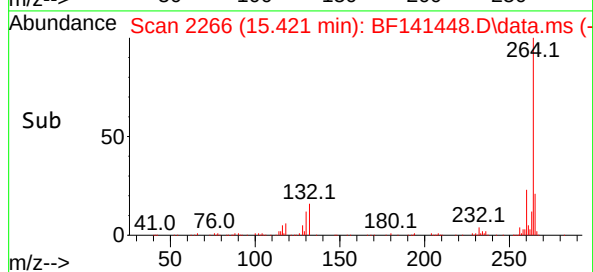
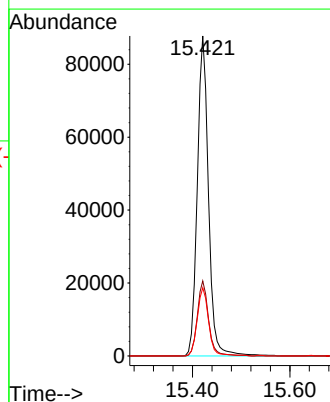
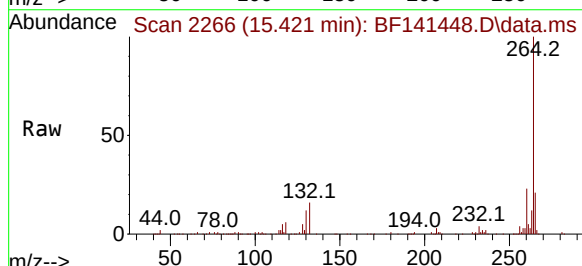
Tgt Ion:264 Resp: 140295

Ion Ratio Lower Upper

264 100

260 23.4 18.6 27.8

265 21.3 16.7 25.1



Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-2.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-04	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141452.D	1	01/29/25 12:35	02/05/25 17:35	PB166354

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	50.0	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	50.0	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	50.0	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	100	U	11.5	100	ug/L
67-72-1	Hexachloroethane	50.0	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	50.0	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	50.0	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.0	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	50.0	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	50.0	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	100	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	145		10 - 139	96%	SPK: 150
13127-88-3	Phenol-d6	136		10 - 134	91%	SPK: 150
4165-60-0	Nitrobenzene-d5	110		49 - 133	110%	SPK: 100
321-60-8	2-Fluorobiphenyl	109		52 - 132	109%	SPK: 100
118-79-6	2,4,6-Tribromophenol	179		44 - 137	119%	SPK: 150
1718-51-0	Terphenyl-d14	118		48 - 125	118%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	67200	6.793			
1146-65-2	Naphthalene-d8	273000	8.069			
15067-26-2	Acenaphthene-d10	147000	9.828			
1517-22-2	Phenanthrene-d10	254000	11.31			
1719-03-5	Chrysene-d12	151000	13.957			
1520-96-3	Perylene-d12	156000	15.427			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-2.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-04	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141452.D	1	01/29/25 12:35	02/05/25 17:35	PB166354

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\BF020525\
Data File : BF141452.D
Acq On : 05 Feb 2025 17:35
Operator : RC/JU
Sample : Q1207-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JPP-2.1-012725

Quant Time: Feb 06 01:43:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

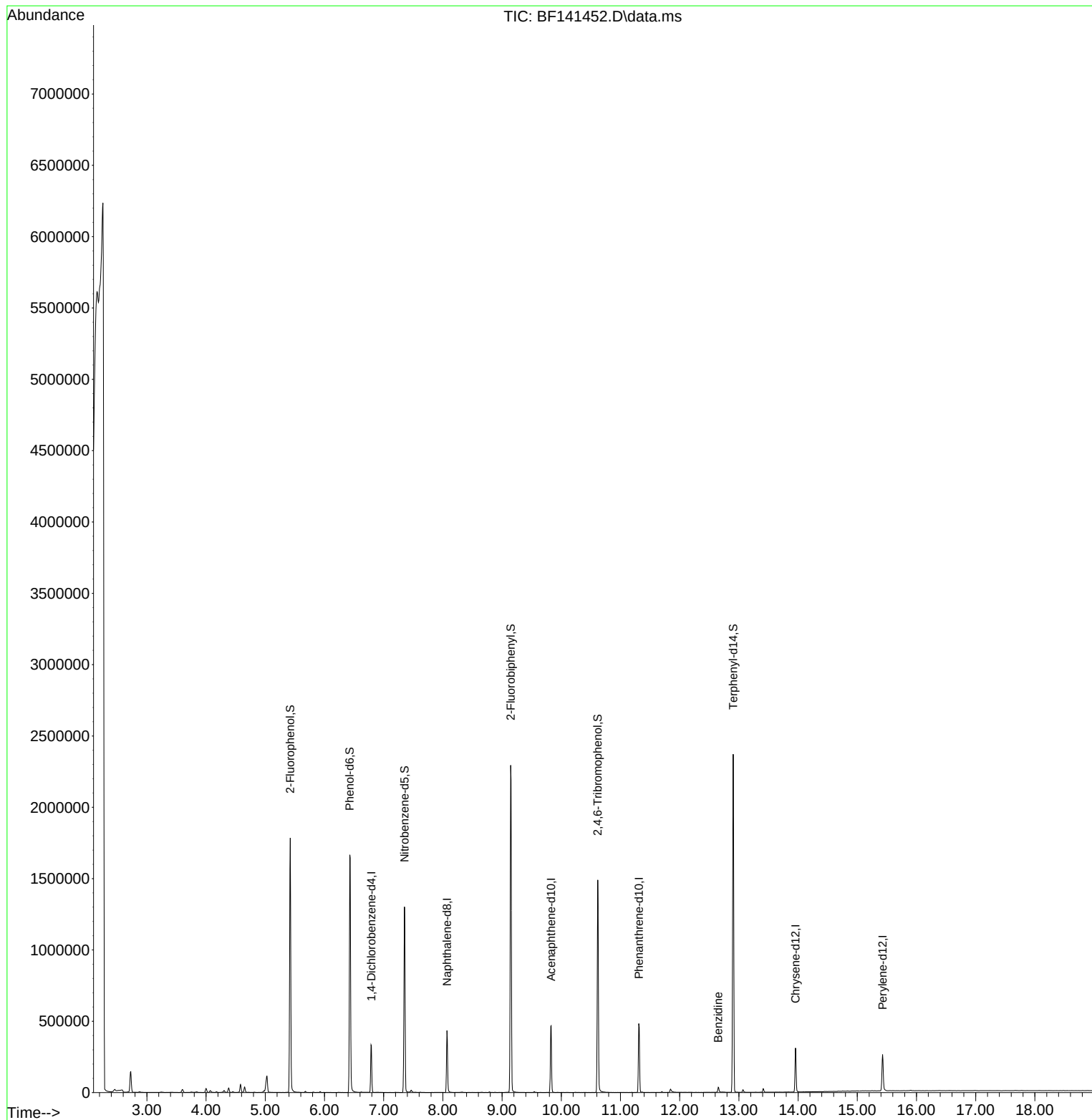
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.793	152	67166	20.000	ng	-0.01
21) Naphthalene-d8	8.069	136	273499	20.000	ng	#-0.02
39) Acenaphthene-d10	9.828	164	146857	20.000	ng	-0.01
64) Phenanthrene-d10	11.310	188	254047	20.000	ng	-0.02
76) Chrysene-d12	13.957	240	150906	20.000	ng	#-0.02
86) Perylene-d12	15.427	264	156406	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	632786	144.635	ng	0.01
7) Phenol-d6	6.428	99	757771	136.152	ng	-0.01
23) Nitrobenzene-d5	7.351	82	570622	109.986	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	240907	178.935	ng	-0.02
45) 2-Fluorobiphenyl	9.145	172	1041197	109.127	ng	-0.02
79) Terphenyl-d14	12.904	244	1151139	117.641	ng	-0.01
Target Compounds						Qvalue
77) Benzidine	12.651	184	21914	4.530	ng	100

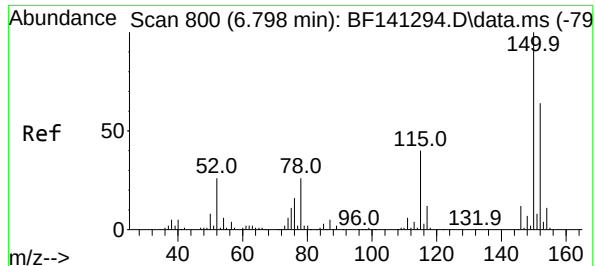
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141452.D
Acq On : 05 Feb 2025 17:35
Operator : RC/JU
Sample : Q1207-04
Misc :
ALS Vial : 7 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JPP-2.1-012725

Quant Time: Feb 06 01:43:56 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

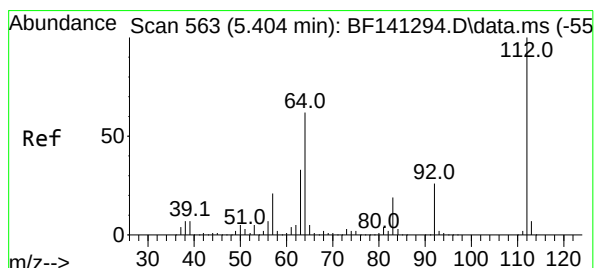
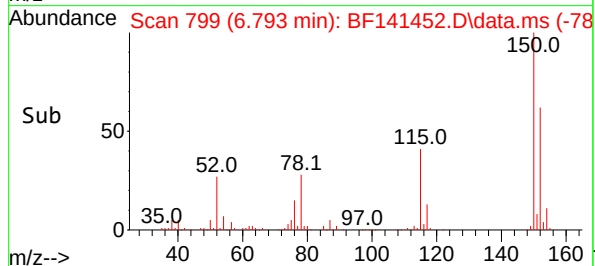
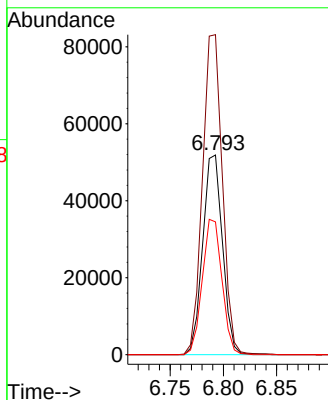
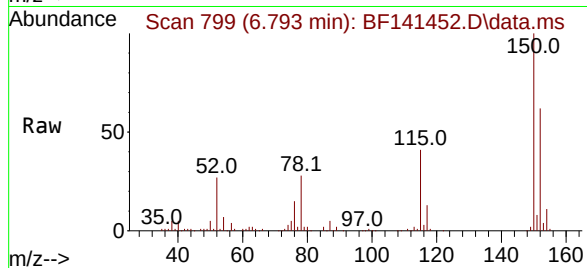




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 79
Delta R.T. -0.011 min
Lab File: BF141452.D
Acq: 05 Feb 2025 17:35

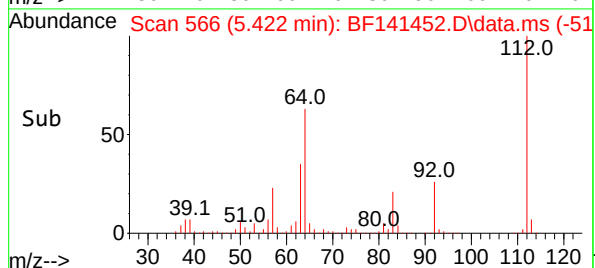
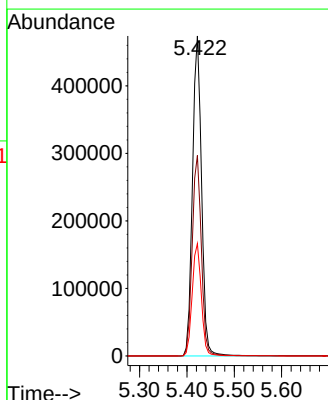
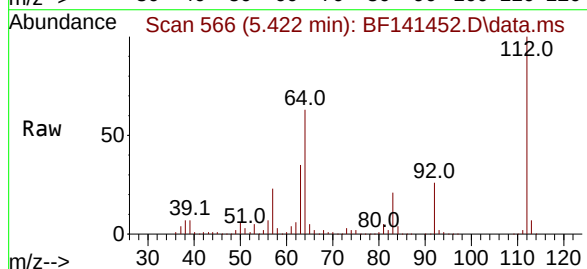
Instrument :
BNA_F
ClientSampleId :
JPP-2.1-012725

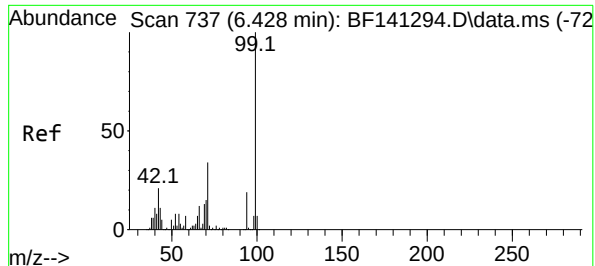
Tgt Ion:152 Resp: 67166
Ion Ratio Lower Upper
152 100
150 160.2 125.9 188.9
115 66.5 49.7 74.5



#5
2-Fluorophenol
Concen: 144.635 ng
RT: 5.422 min Scan# 566
Delta R.T. 0.012 min
Lab File: BF141452.D
Acq: 05 Feb 2025 17:35

Tgt Ion:112 Resp: 632786
Ion Ratio Lower Upper
112 100
64 62.7 49.8 74.8
63 35.1 26.1 39.1





#7

Phenol-d6

Concen: 136.152 ng

RT: 6.428 min Scan# 71

Delta R.T. -0.012 min

Lab File: BF141452.D

Acq: 05 Feb 2025 17:35

Instrument :

BNA_F

ClientSampleId :

JPP-2.1-012725

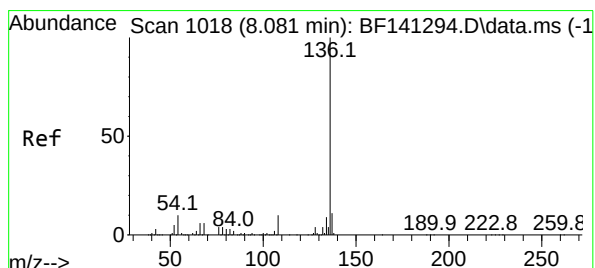
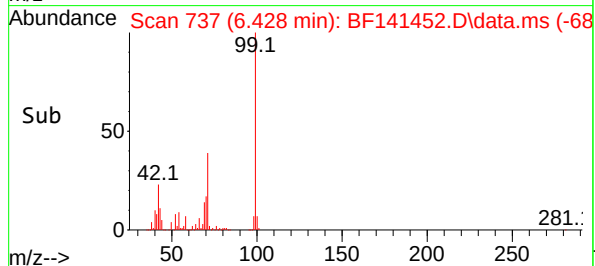
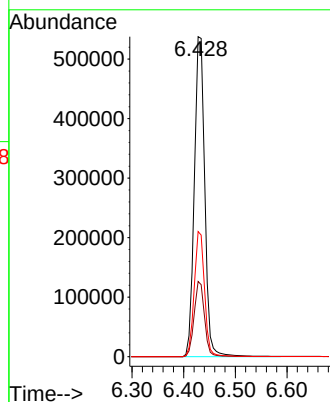
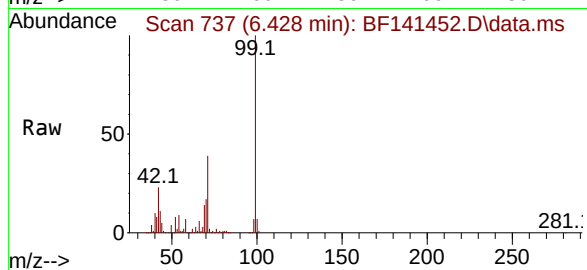
Tgt Ion: 99 Resp: 757771

Ion Ratio Lower Upper

99 100

42 23.5 17.1 25.7

71 39.1 26.9 40.3



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.069 min Scan# 1016

Delta R.T. -0.018 min

Lab File: BF141452.D

Acq: 05 Feb 2025 17:35

Tgt Ion: 136 Resp: 273499

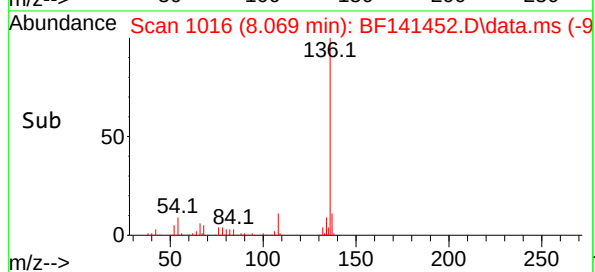
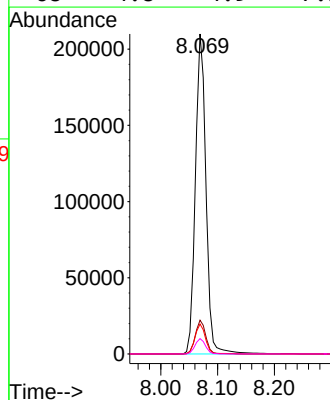
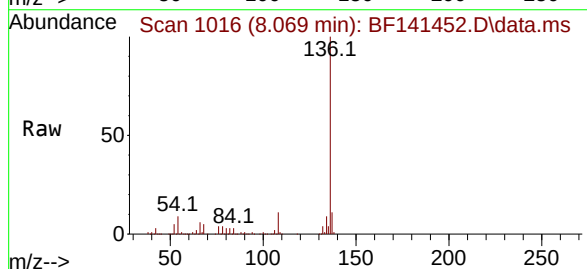
Ion Ratio Lower Upper

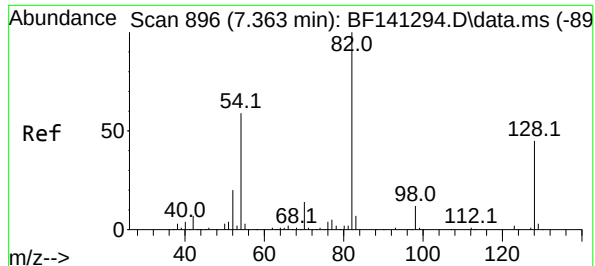
136 100

137 10.5 8.6 13.0

54 9.3 7.8 11.8

68 4.8 4.9 7.3#





#23

Nitrobenzene-d5

Concen: 109.986 ng

RT: 7.351 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF141452.D

Acq: 05 Feb 2025 17:35

Instrument :

BNA_F

ClientSampleId :

JPP-2.1-012725

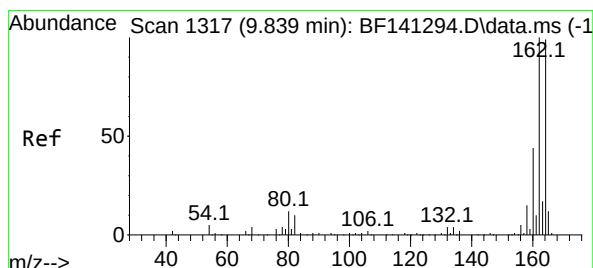
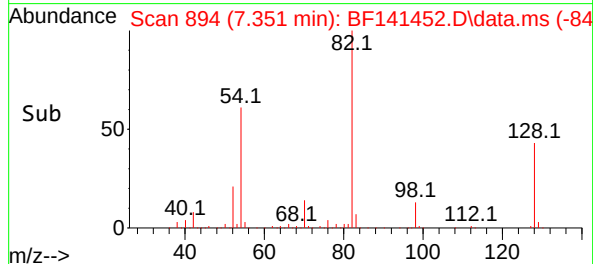
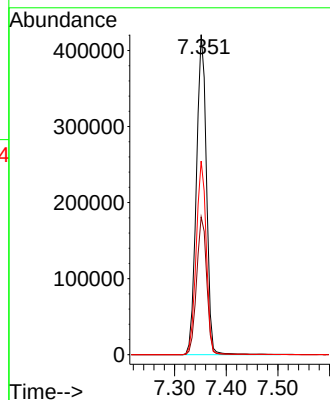
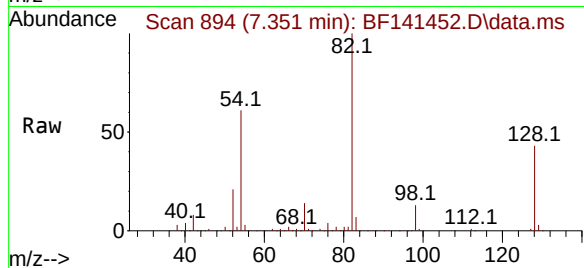
Tgt Ion: 82 Resp: 570622

Ion Ratio Lower Upper

82 100

128 43.0 35.7 53.5

54 60.5 47.1 70.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.828 min Scan# 1315

Delta R.T. -0.012 min

Lab File: BF141452.D

Acq: 05 Feb 2025 17:35

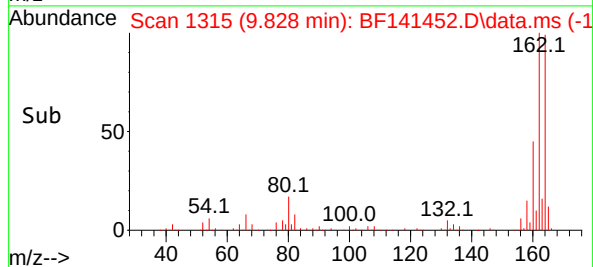
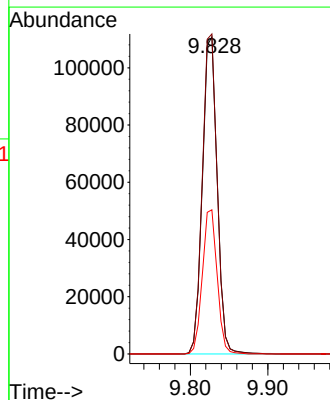
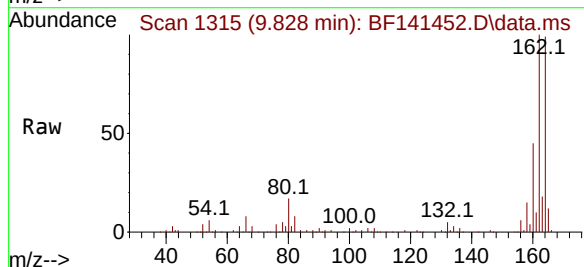
Tgt Ion: 164 Resp: 146857

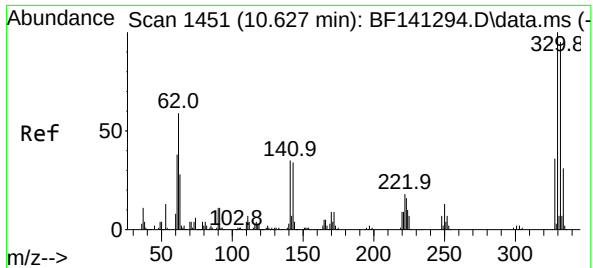
Ion Ratio Lower Upper

164 100

162 100.9 80.6 121.0

160 45.5 35.8 53.6





#42

2,4,6-Tribromophenol

Concen: 178.935 ng

RT: 10.616 min Scan# 1451

Delta R.T. -0.018 min

Lab File: BF141452.D

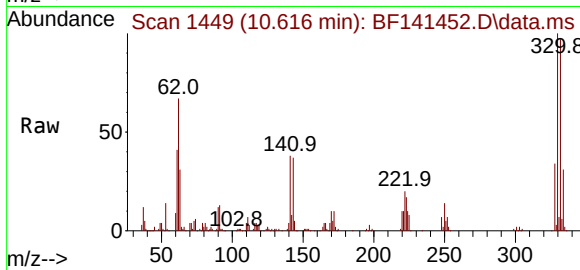
Acq: 05 Feb 2025 17:35

Instrument :

BNA_F

ClientSampleId :

JPP-2.1-012725



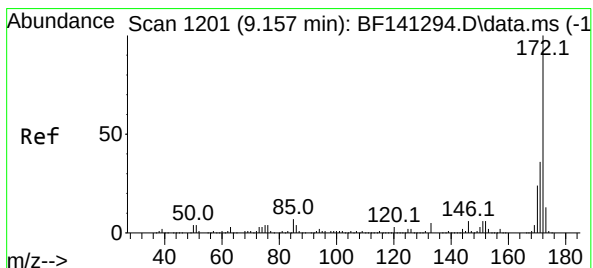
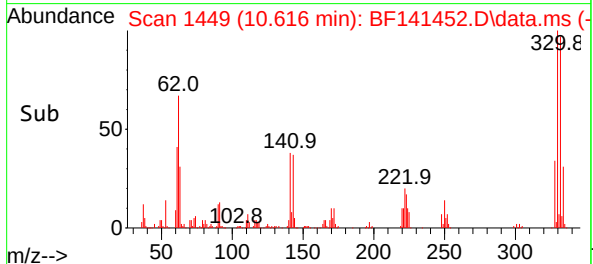
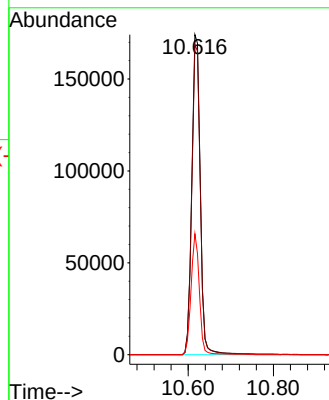
Tgt Ion:330 Resp: 240907

Ion Ratio Lower Upper

330 100

332 97.0 76.1 114.1

141 36.9 28.8 43.2



#45

2-Fluorobiphenyl

Concen: 109.127 ng

RT: 9.145 min Scan# 1199

Delta R.T. -0.018 min

Lab File: BF141452.D

Acq: 05 Feb 2025 17:35

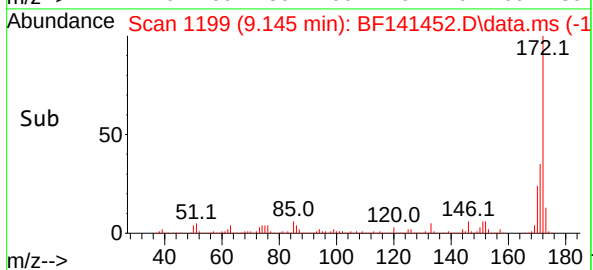
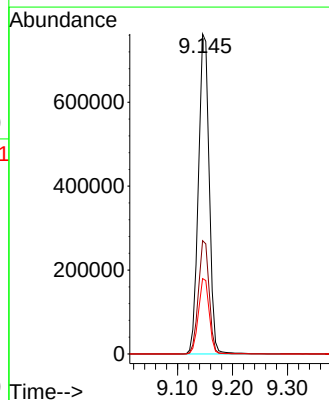
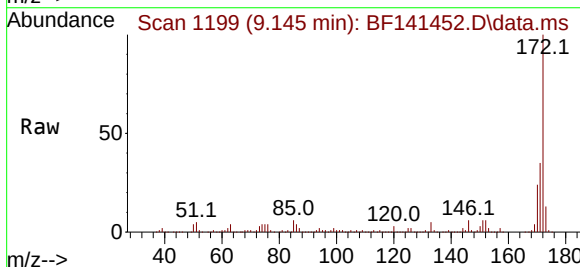
Tgt Ion:172 Resp: 1041197

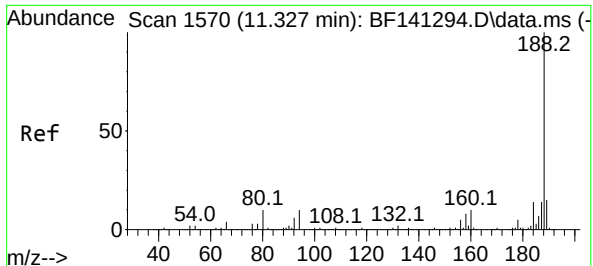
Ion Ratio Lower Upper

172 100

171 35.4 28.8 43.2

170 23.6 19.0 28.6

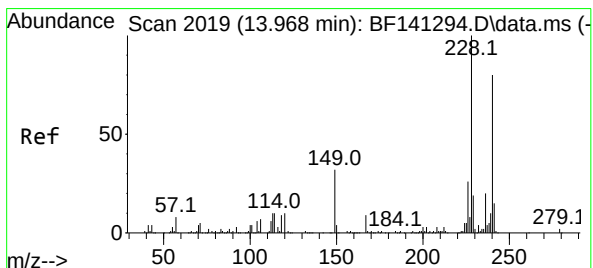
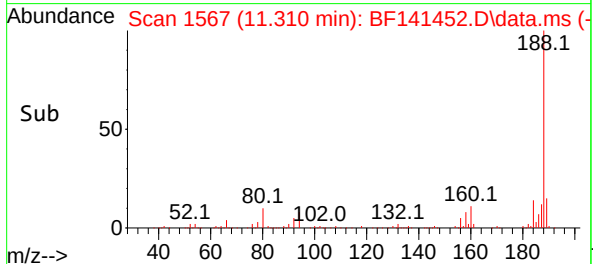
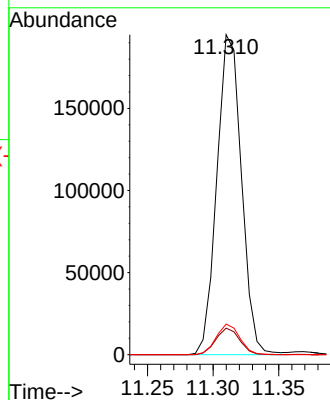
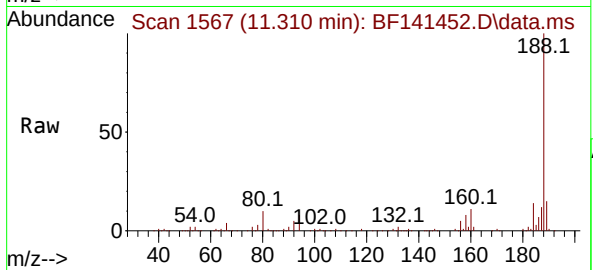




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.310 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF141452.D
Acq: 05 Feb 2025 17:35

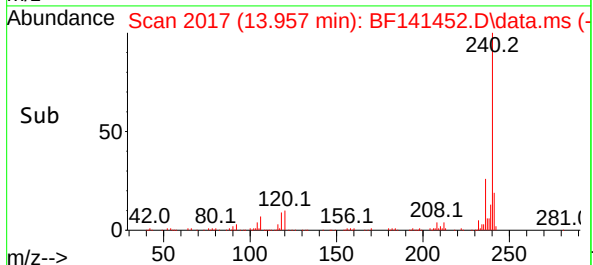
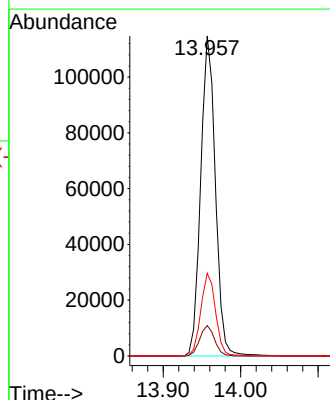
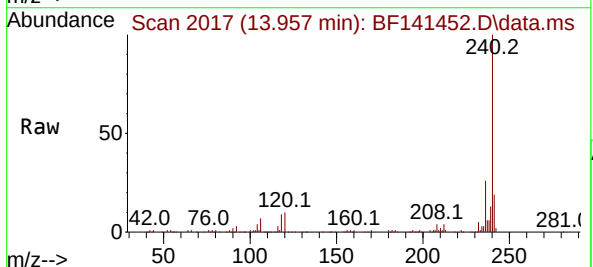
Instrument :
BNA_F
ClientSampleId :
JPP-2.1-012725

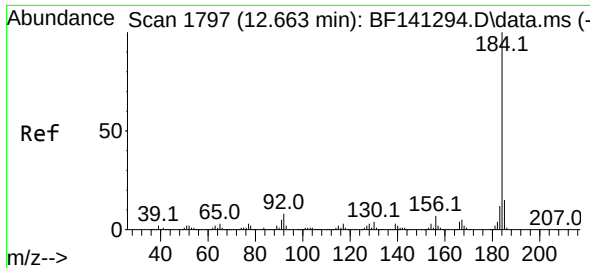
Tgt Ion:188 Resp: 254047
Ion Ratio Lower Upper
188 100
94 8.3 7.8 11.6
80 9.5 8.2 12.4



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.018 min
Lab File: BF141452.D
Acq: 05 Feb 2025 17:35

Tgt Ion:240 Resp: 150906
Ion Ratio Lower Upper
240 100
120 9.5 10.0 15.0#
236 25.8 19.7 29.5

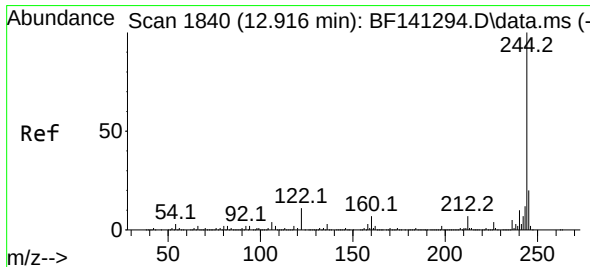
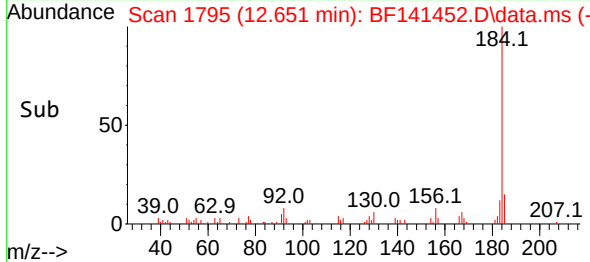
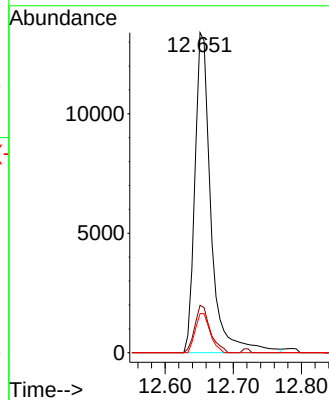
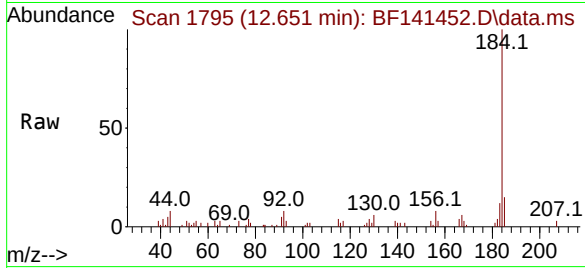




#77
Benzidine
Concen: 4.530 ng
RT: 12.651 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141452.D
Acq: 05 Feb 2025 17:35

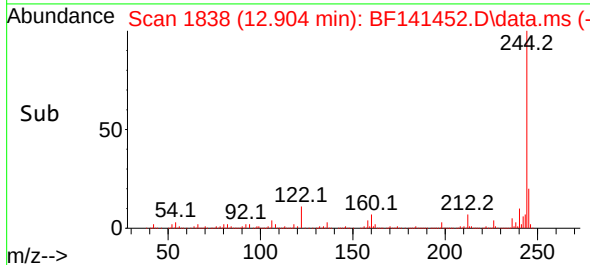
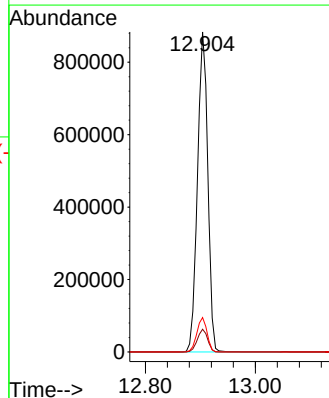
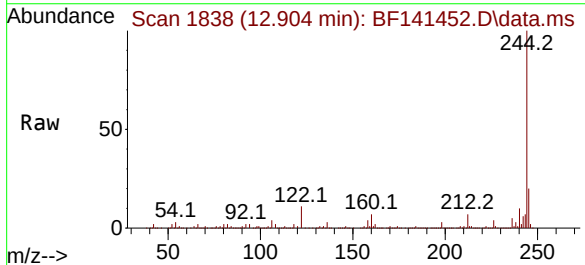
Instrument :
BNA_F
ClientSampleId :
JPP-2.1-012725

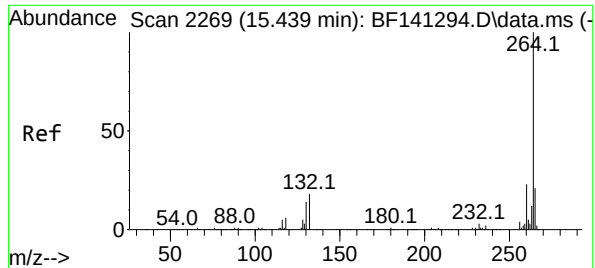
Tgt Ion	Ratio	Lower	Upper
184	100		
185	14.8	11.9	17.9
183	12.2	9.5	14.3



#79
Terphenyl-d14
Concen: 117.641 ng
RT: 12.904 min Scan# 1838
Delta R.T. -0.012 min
Lab File: BF141452.D
Acq: 05 Feb 2025 17:35

Tgt Ion	Ratio	Lower	Upper
244	100		
212	7.1	5.4	8.0
122	10.8	8.8	13.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.427 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF141452.D

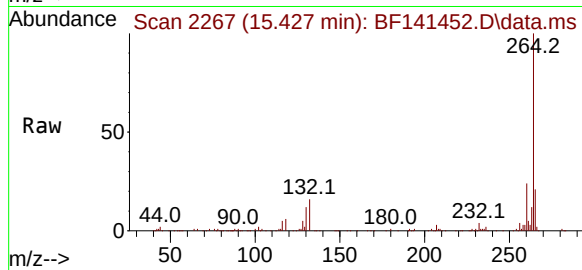
Acq: 05 Feb 2025 17:35

Instrument :

BNA_F

ClientSampleId :

JPP-2.1-012725



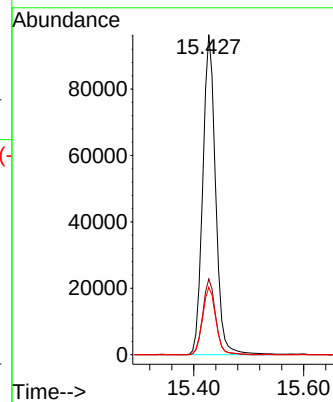
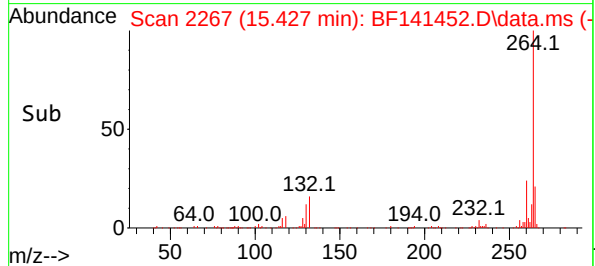
Tgt Ion:264 Resp: 156406

Ion Ratio Lower Upper

264 100

260 23.7 18.6 27.8

265 21.1 16.7 25.1



Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-5.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-08	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141453.D	1	01/29/25 12:35	02/05/25 18:01	PB166354

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	50.0	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	50.0	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	50.0	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	100	U	11.5	100	ug/L
67-72-1	Hexachloroethane	50.0	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	50.0	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	50.0	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.0	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	50.0	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	50.0	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	100	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	127		10 - 139	84%	SPK: 150
13127-88-3	Phenol-d6	115		10 - 134	76%	SPK: 150
4165-60-0	Nitrobenzene-d5	100		49 - 133	100%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.6		52 - 132	97%	SPK: 100
118-79-6	2,4,6-Tribromophenol	155		44 - 137	103%	SPK: 150
1718-51-0	Terphenyl-d14	105		48 - 125	105%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	79400	6.792			
1146-65-2	Naphthalene-d8	314000	8.069			
15067-26-2	Acenaphthene-d10	170000	9.822			
1517-22-2	Phenanthrene-d10	288000	11.31			
1719-03-5	Chrysene-d12	171000	13.957			
1520-96-3	Perylene-d12	176000	15.427			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-5.1-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-08	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141453.D	1	01/29/25 12:35	02/05/25 18:01	PB166354

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\BF020525\
Data File : BF141453.D
Acq On : 05 Feb 2025 18:01
Operator : RC/JU
Sample : Q1207-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JPP-5.1-012725

Quant Time: Feb 06 01:44:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

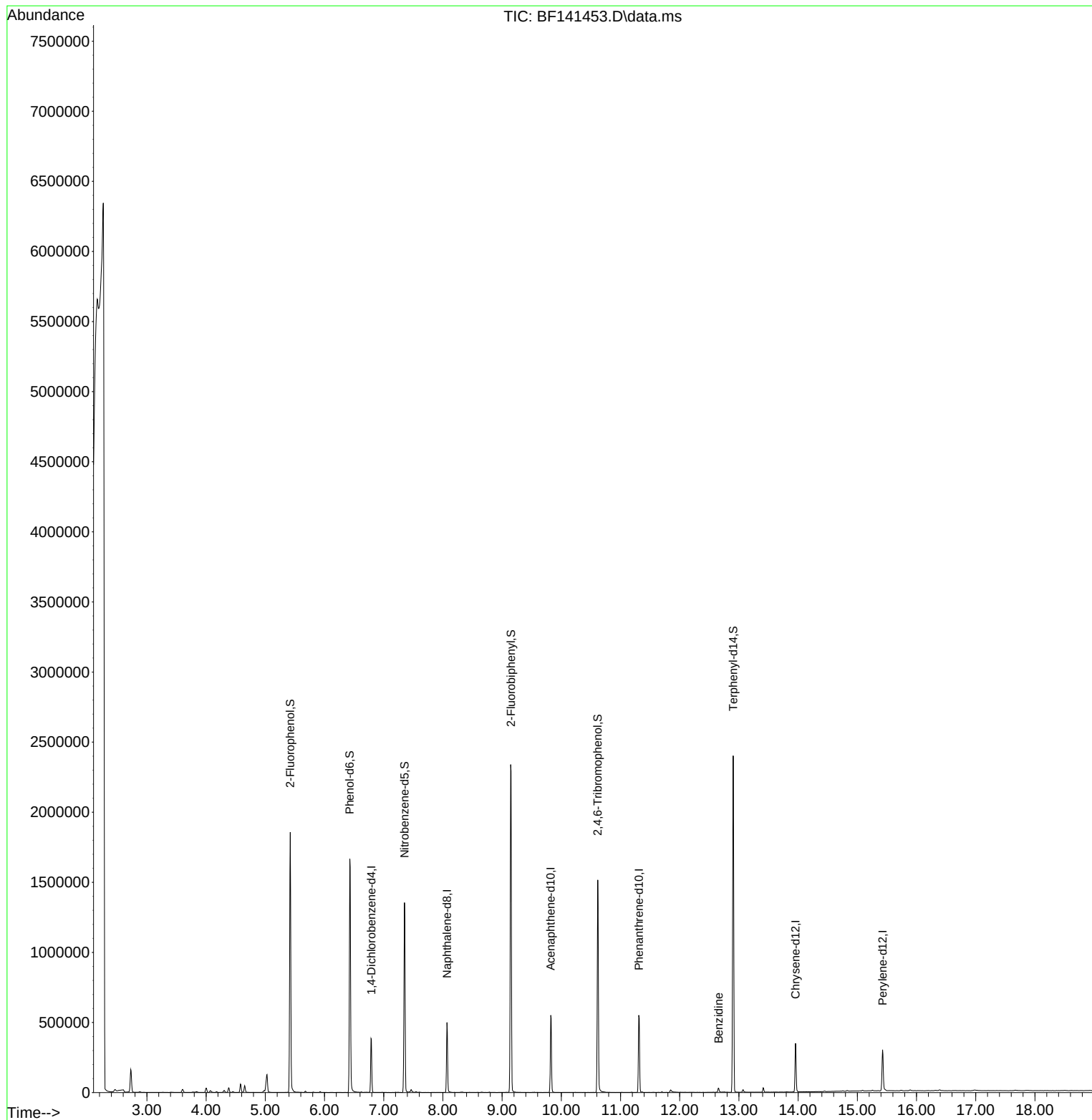
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	79438	20.000	ng	-0.01
21) Naphthalene-d8	8.069	136	313809	20.000	ng	#-0.02
39) Acenaphthene-d10	9.822	164	169630	20.000	ng	-0.02
64) Phenanthrene-d10	11.310	188	288034	20.000	ng	-0.02
76) Chrysene-d12	13.957	240	170634	20.000	ng	#-0.02
86) Perylene-d12	15.427	264	176168	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	655747	126.728	ng	0.01
7) Phenol-d6	6.428	99	754036	114.551	ng	-0.01
23) Nitrobenzene-d5	7.351	82	595614	100.057	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	240654	154.750	ng	-0.02
45) 2-Fluorobiphenyl	9.151	172	1064973	96.634	ng	-0.01
79) Terphenyl-d14	12.904	244	1165219	105.312	ng	-0.01
Target Compounds						Qvalue
77) Benzidine	12.657	184	19186	3.507	ng	99

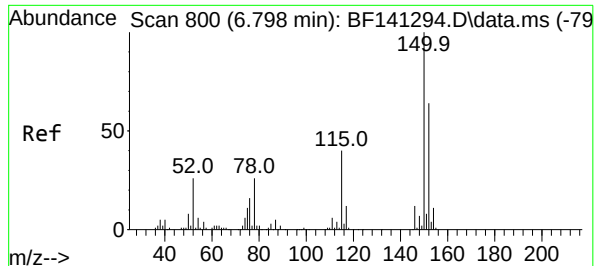
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141453.D
Acq On : 05 Feb 2025 18:01
Operator : RC/JU
Sample : Q1207-08
Misc :
ALS Vial : 8 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JPP-5.1-012725

Quant Time: Feb 06 01:44:22 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

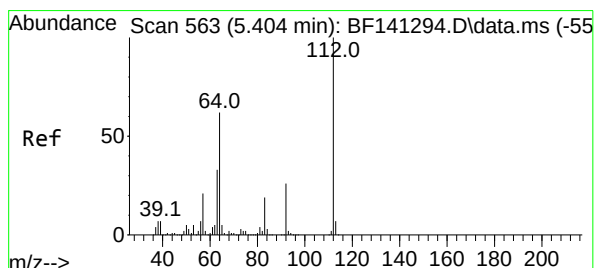
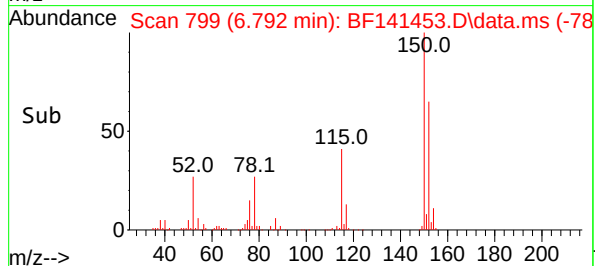
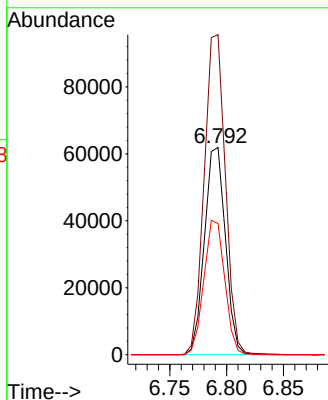
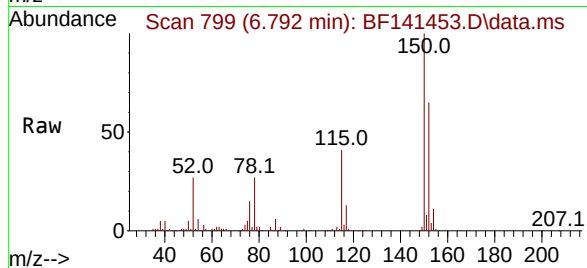




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.792 min Scan# 79
 Delta R.T. -0.012 min
 Lab File: BF141453.D
 Acq: 05 Feb 2025 18:01

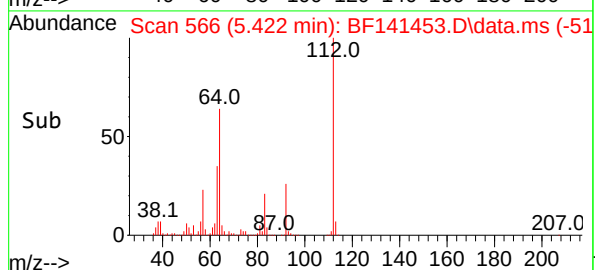
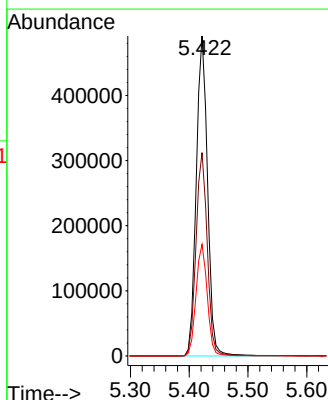
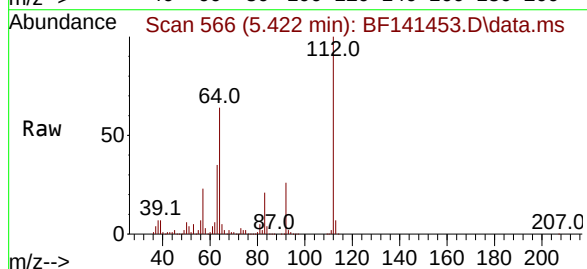
Instrument :
 BNA_F
 ClientSampleId :
 JPP-5.1-012725

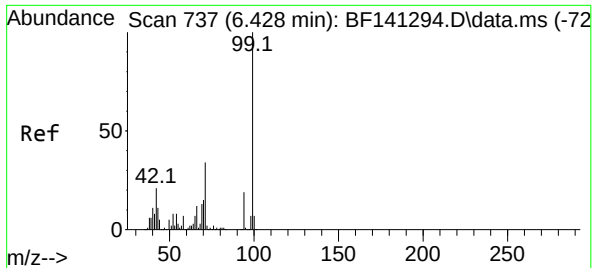
Tgt Ion:152 Resp: 79438
 Ion Ratio Lower Upper
 152 100
 150 154.4 125.9 188.9
 115 63.3 49.7 74.5



#5
 2-Fluorophenol
 Concen: 126.728 ng
 RT: 5.422 min Scan# 566
 Delta R.T. 0.012 min
 Lab File: BF141453.D
 Acq: 05 Feb 2025 18:01

Tgt Ion:112 Resp: 655747
 Ion Ratio Lower Upper
 112 100
 64 63.5 49.8 74.8
 63 34.9 26.1 39.1

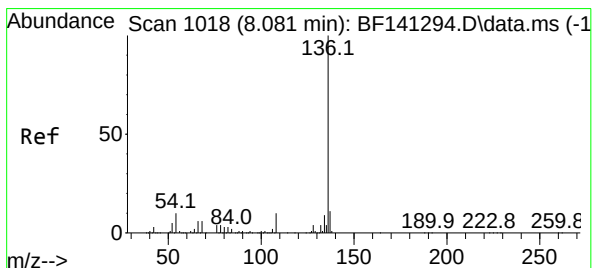
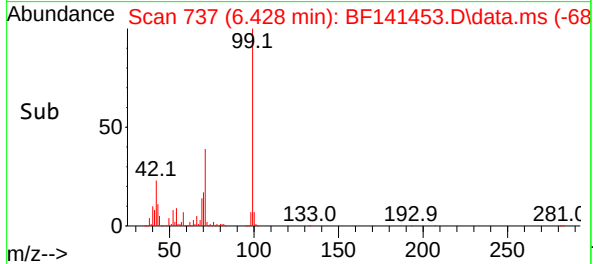
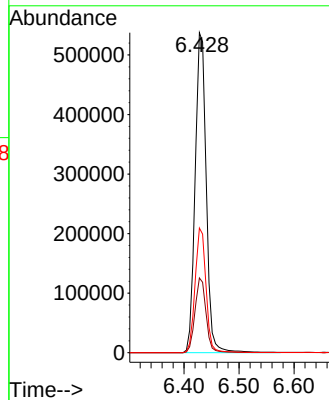
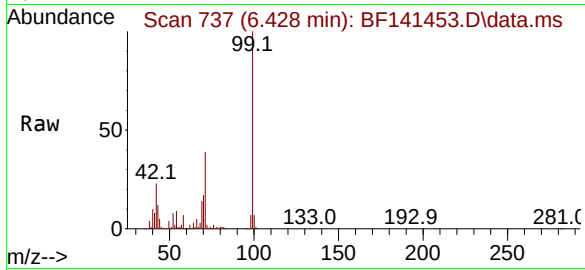




#7
Phenol-d6
Concen: 114.551 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141453.D
Acq: 05 Feb 2025 18:01

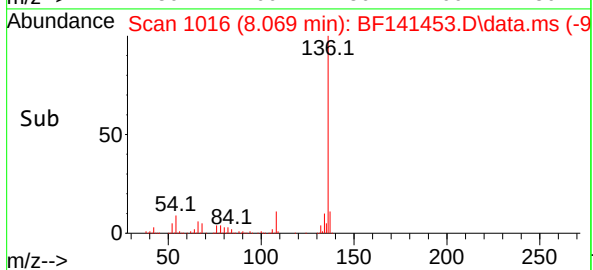
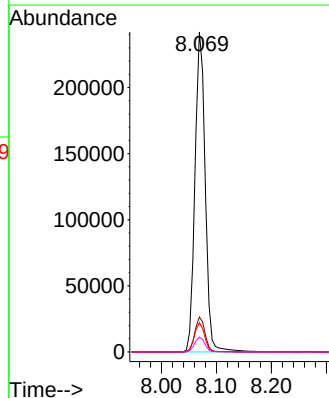
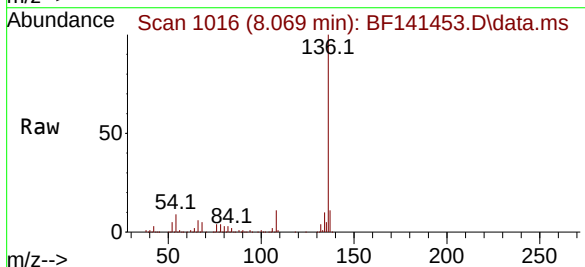
Instrument :
BNA_F
ClientSampleId :
JPP-5.1-012725

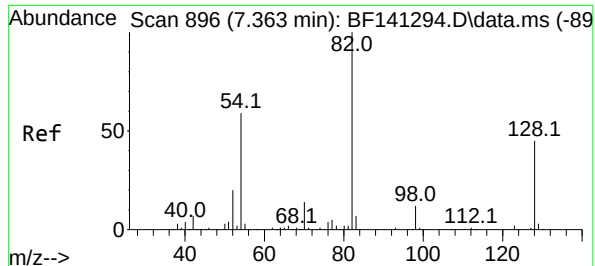
Tgt Ion: 99 Resp: 754036
Ion Ratio Lower Upper
99 100
42 23.4 17.1 25.7
71 39.0 26.9 40.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.018 min
Lab File: BF141453.D
Acq: 05 Feb 2025 18:01

Tgt Ion: 136 Resp: 313809
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 9.1 7.8 11.8
68 4.7 4.9 7.3#





#23

Nitrobenzene-d5

Concen: 100.057 ng

RT: 7.351 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF141453.D

Acq: 05 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

JPP-5.1-012725

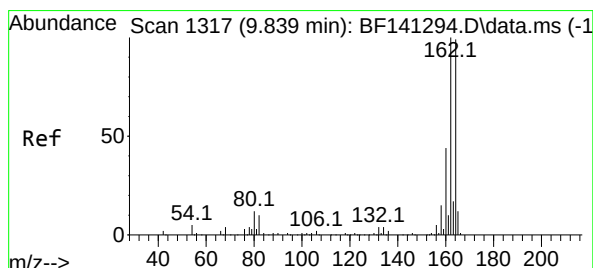
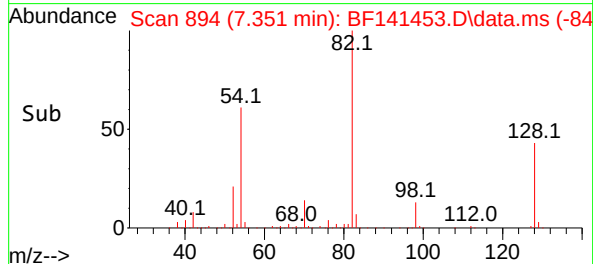
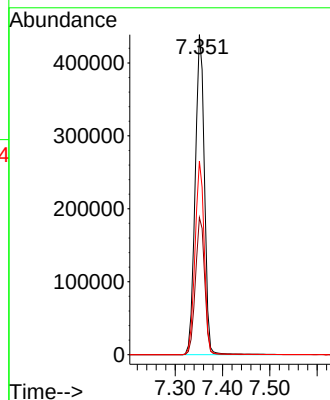
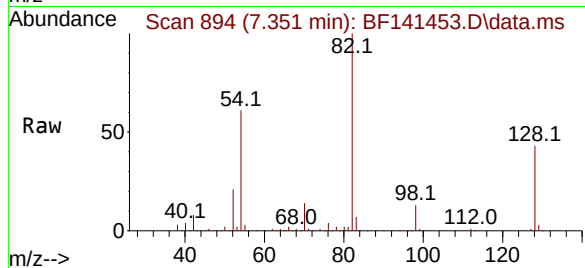
Tgt Ion: 82 Resp: 595614

Ion Ratio Lower Upper

82 100

128 42.8 35.7 53.5

54 60.5 47.1 70.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.822 min Scan# 1314

Delta R.T. -0.018 min

Lab File: BF141453.D

Acq: 05 Feb 2025 18:01

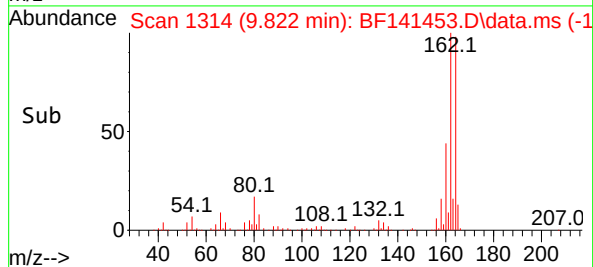
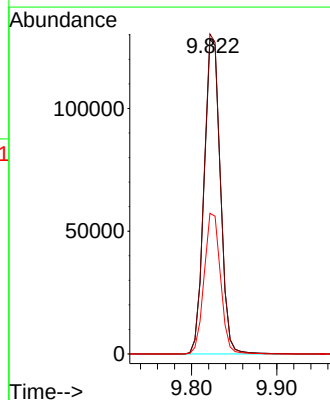
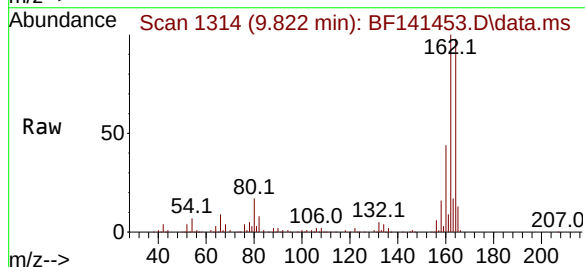
Tgt Ion: 164 Resp: 169630

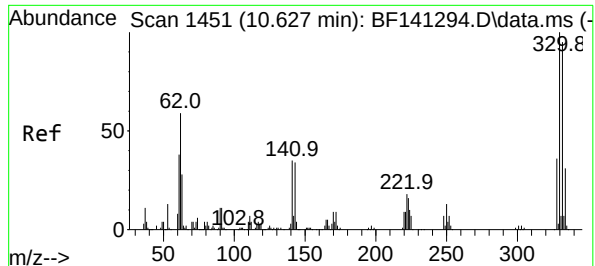
Ion Ratio Lower Upper

164 100

162 101.7 80.6 121.0

160 44.7 35.8 53.6





#42

2,4,6-Tribromophenol

Concen: 154.750 ng

RT: 10.616 min Scan# 1451

Delta R.T. -0.018 min

Lab File: BF141453.D

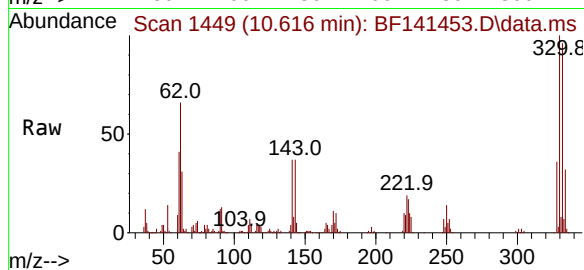
Acq: 05 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

JPP-5.1-012725



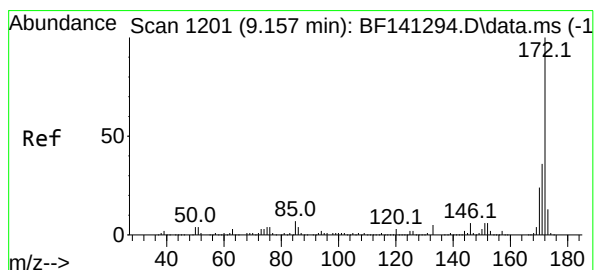
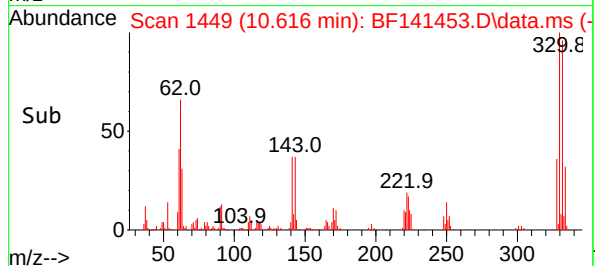
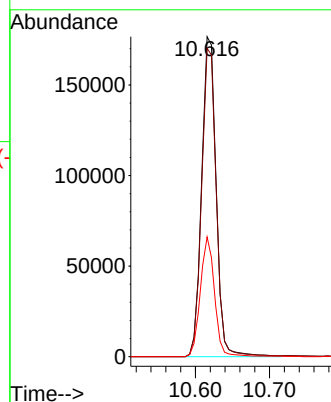
Tgt Ion:330 Resp: 240654

Ion Ratio Lower Upper

330 100

332 96.8 76.1 114.1

141 36.9 28.8 43.2



#45

2-Fluorobiphenyl

Concen: 96.634 ng

RT: 9.151 min Scan# 1200

Delta R.T. -0.012 min

Lab File: BF141453.D

Acq: 05 Feb 2025 18:01

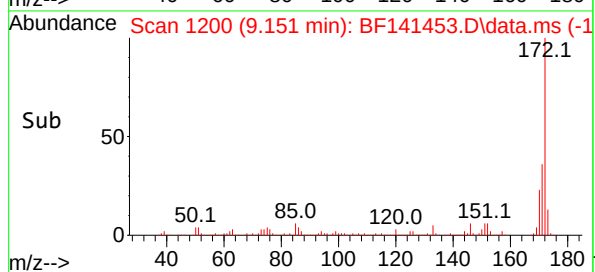
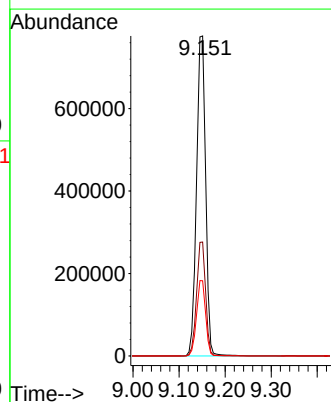
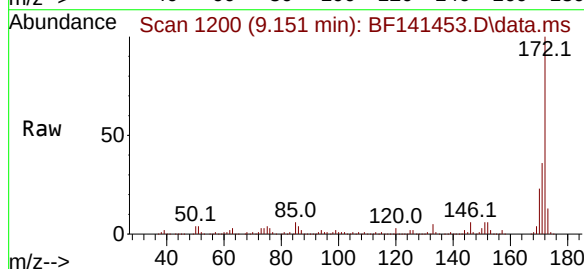
Tgt Ion:172 Resp: 1064973

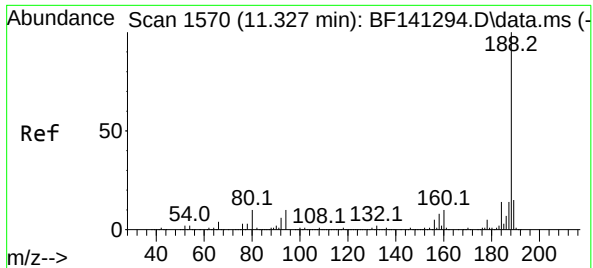
Ion Ratio Lower Upper

172 100

171 35.6 28.8 43.2

170 23.5 19.0 28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 1

Delta R.T. -0.018 min

Lab File: BF141453.D

Acq: 05 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

JPP-5.1-012725

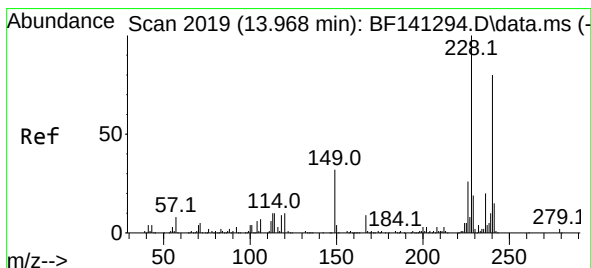
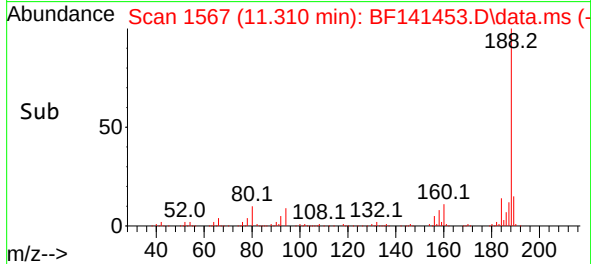
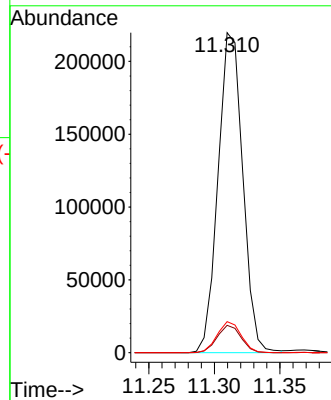
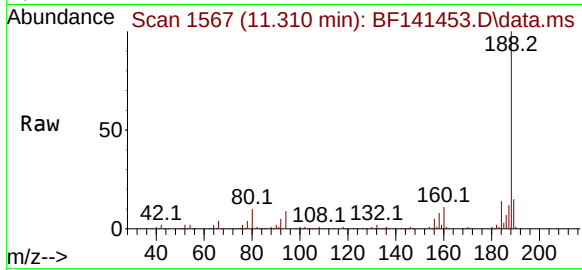
Tgt Ion:188 Resp: 288034

Ion Ratio Lower Upper

188 100

94 8.6 7.8 11.6

80 9.7 8.2 12.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.957 min Scan# 2017

Delta R.T. -0.018 min

Lab File: BF141453.D

Acq: 05 Feb 2025 18:01

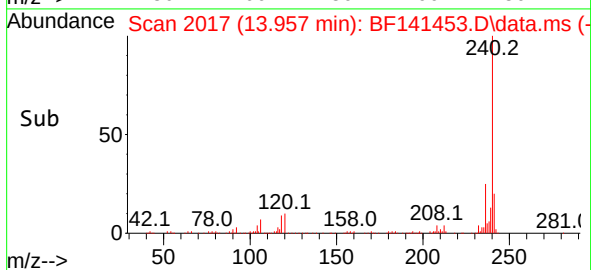
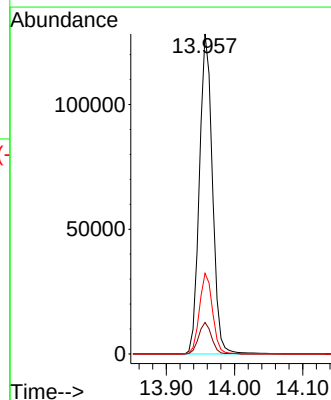
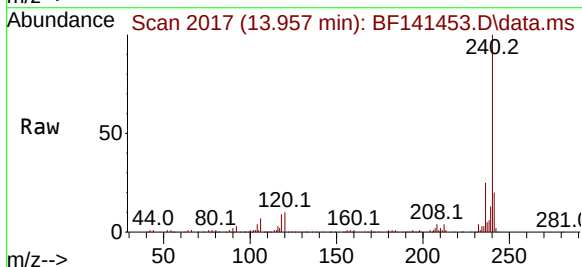
Tgt Ion:240 Resp: 170634

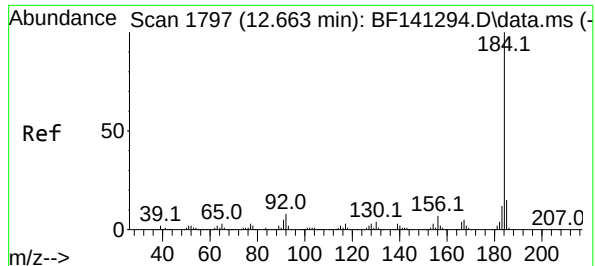
Ion Ratio Lower Upper

240 100

120 9.8 10.0 15.0#

236 25.2 19.7 29.5





#77

Benzidine

Concen: 3.507 ng

RT: 12.657 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF141453.D

Acq: 05 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

JPP-5.1-012725

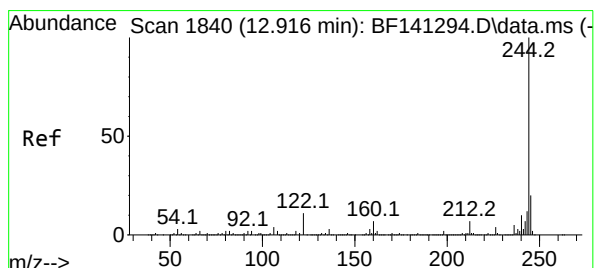
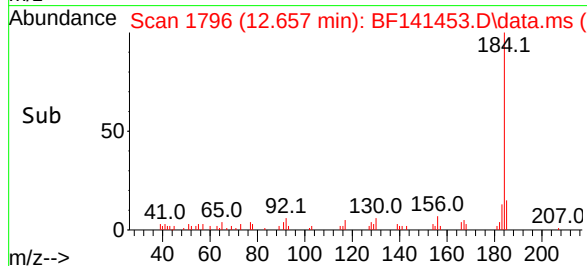
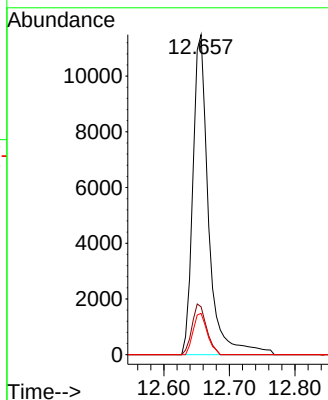
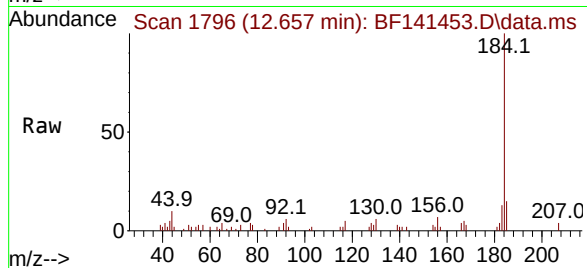
Tgt Ion:184 Resp: 19186

Ion Ratio Lower Upper

184 100

185 15.0 11.9 17.9

183 12.9 9.5 14.3



#79

Terphenyl-d14

Concen: 105.312 ng

RT: 12.904 min Scan# 1838

Delta R.T. -0.012 min

Lab File: BF141453.D

Acq: 05 Feb 2025 18:01

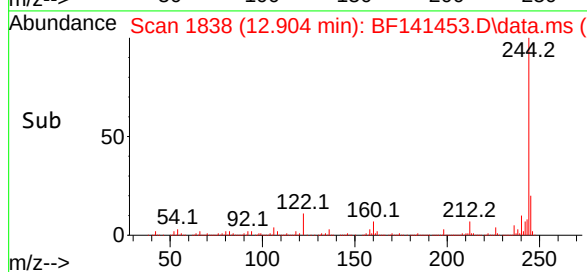
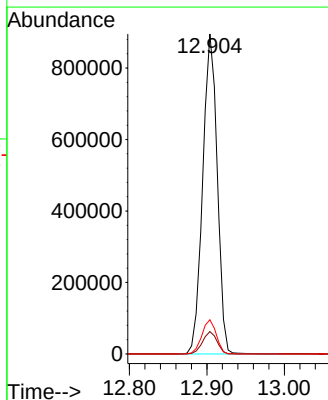
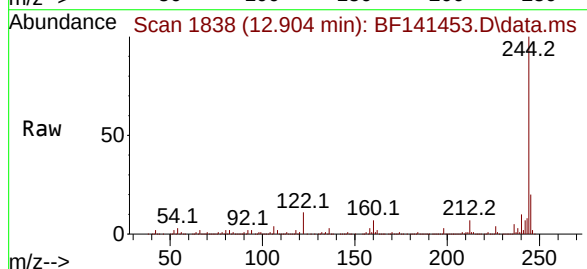
Tgt Ion:244 Resp: 1165219

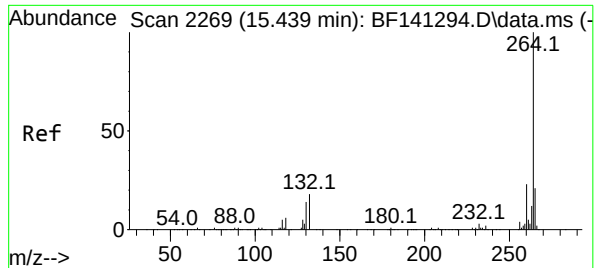
Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

122 10.7 8.8 13.2





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.427 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF141453.D

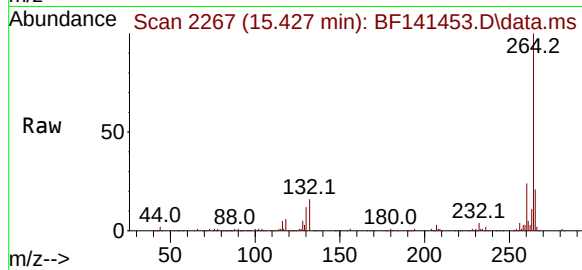
Acq: 05 Feb 2025 18:01

Instrument :

BNA_F

ClientSampleId :

JPP-5.1-012725



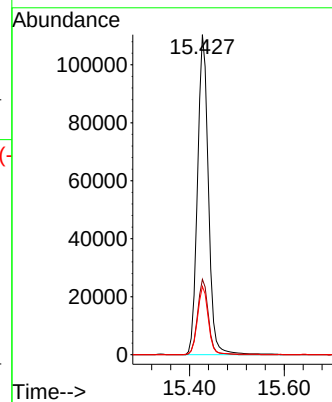
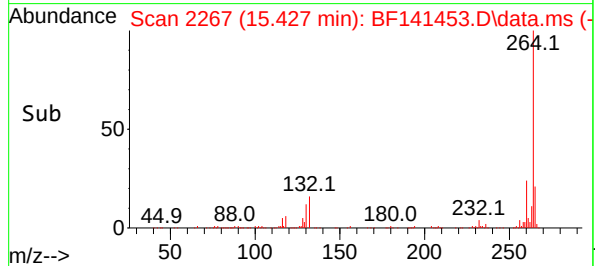
Tgt Ion:264 Resp: 176168

Ion Ratio Lower Upper

264 100

260 23.5 18.6 27.8

265 21.3 16.7 25.1



Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-4.5-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-12	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141455.D	1	01/29/25 12:35	02/05/25 18:54	PB166354

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	50.0	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	50.0	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	50.0	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	100	U	11.5	100	ug/L
67-72-1	Hexachloroethane	50.0	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	50.0	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	50.0	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.0	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	50.0	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	50.0	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	100	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	146		10 - 139	98%	SPK: 150
13127-88-3	Phenol-d6	133		10 - 134	89%	SPK: 150
4165-60-0	Nitrobenzene-d5	113		49 - 133	113%	SPK: 100
321-60-8	2-Fluorobiphenyl	112		52 - 132	112%	SPK: 100
118-79-6	2,4,6-Tribromophenol	177		44 - 137	118%	SPK: 150
1718-51-0	Terphenyl-d14	119		48 - 125	119%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	67100	6.787			
1146-65-2	Naphthalene-d8	265000	8.069			
15067-26-2	Acenaphthene-d10	143000	9.822			
1517-22-2	Phenanthrene-d10	243000	11.31			
1719-03-5	Chrysene-d12	147000	13.957			
1520-96-3	Perylene-d12	144000	15.433			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-4.5-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-12	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141455.D	1	01/29/25 12:35	02/05/25 18:54	PB166354

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\BF020525\
Data File : BF141455.D
Acq On : 05 Feb 2025 18:54
Operator : RC/JU
Sample : Q1207-12
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JPP-4.5-012725

Quant Time: Feb 06 01:45:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	67139	20.000	ng	-0.02
21) Naphthalene-d8	8.069	136	265210	20.000	ng	#-0.02
39) Acenaphthene-d10	9.822	164	142949	20.000	ng	-0.02
64) Phenanthrene-d10	11.310	188	242726	20.000	ng	-0.02
76) Chrysene-d12	13.957	240	146889	20.000	ng	#-0.02
86) Perylene-d12	15.433	264	144251	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	639865	146.312	ng	0.01
7) Phenol-d6	6.428	99	741396	133.263	ng	-0.01
23) Nitrobenzene-d5	7.351	82	568230	112.949	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	232165	177.156	ng	-0.02
45) 2-Fluorobiphenyl	9.145	172	1035546	111.501	ng	-0.02
79) Terphenyl-d14	12.904	244	1130421	118.683	ng	-0.01

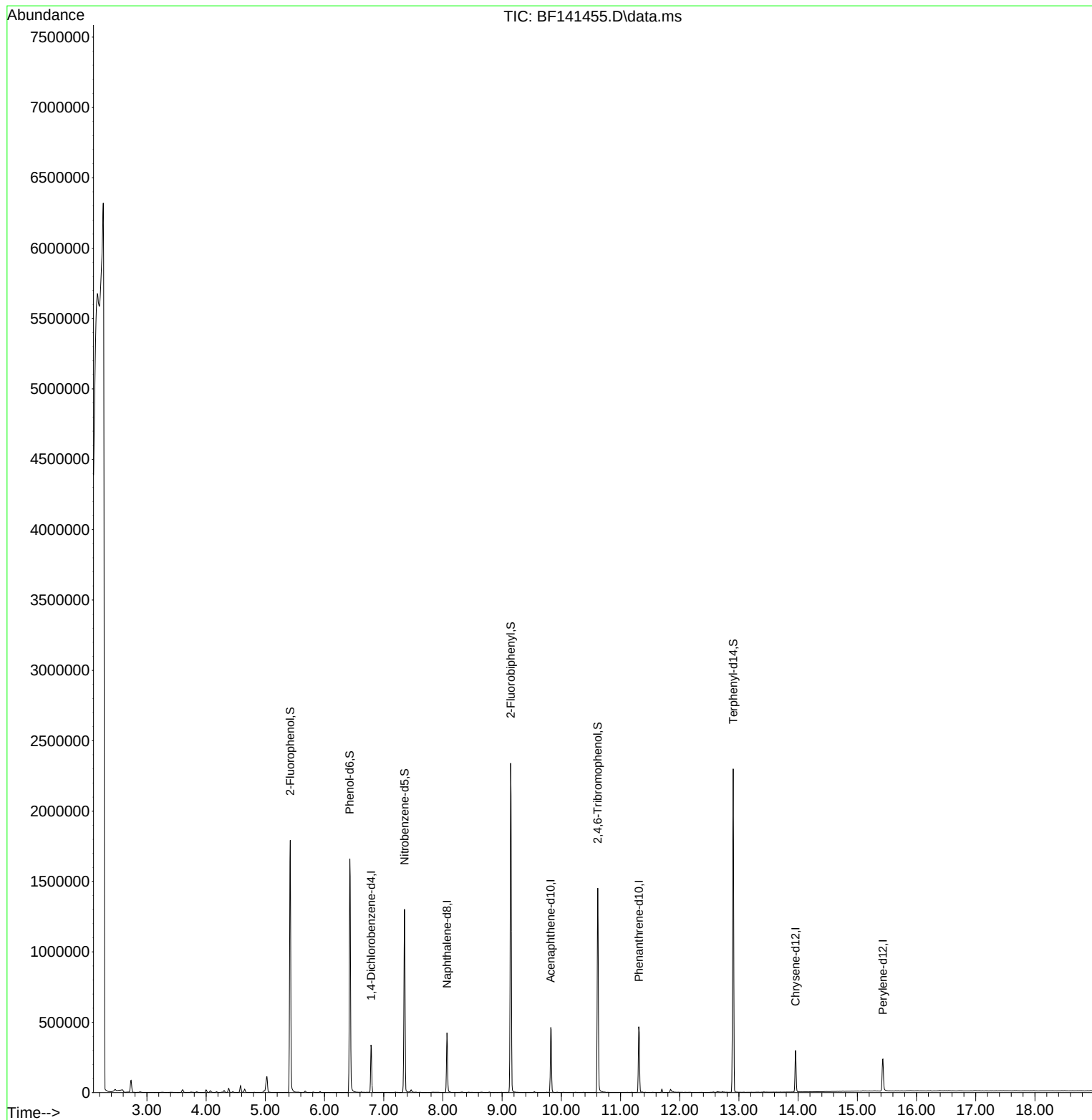
Target Compounds	Qvalue

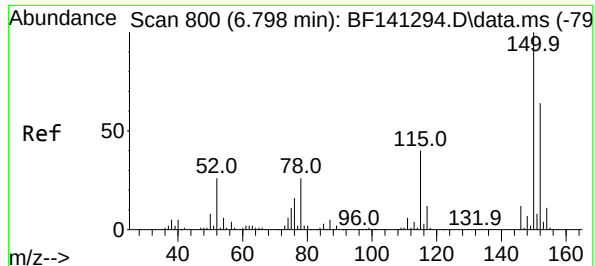
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141455.D
Acq On : 05 Feb 2025 18:54
Operator : RC/JU
Sample : Q1207-12
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JPP-4.5-012725

Quant Time: Feb 06 01:45:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

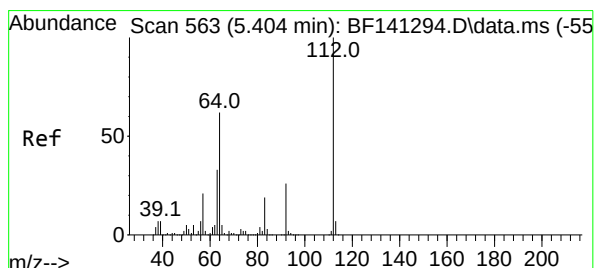
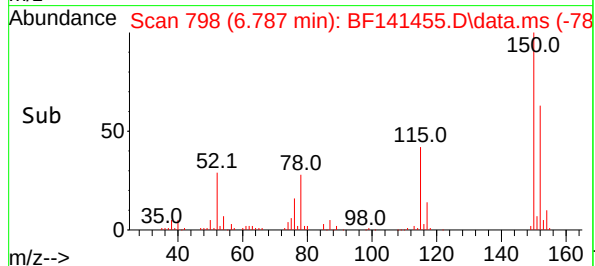
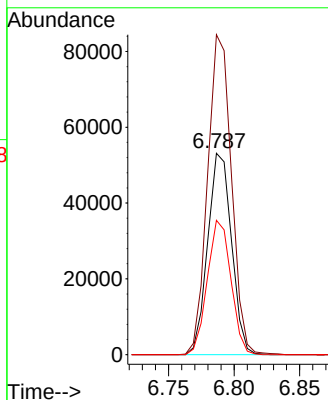
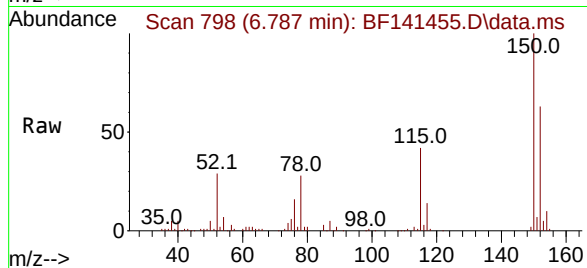




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 79
Delta R.T. -0.018 min
Lab File: BF141455.D
Acq: 05 Feb 2025 18:54

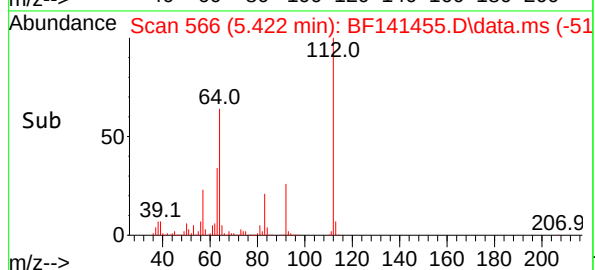
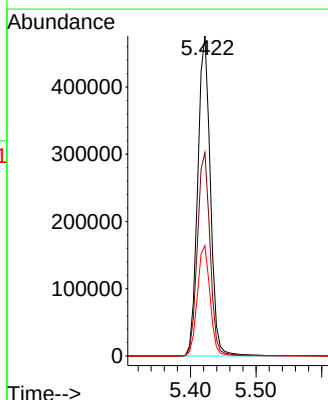
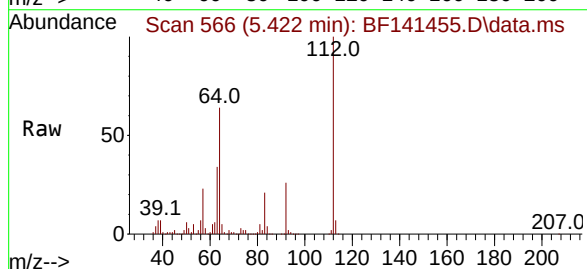
Instrument :
BNA_F
ClientSampleId :
JPP-4.5-012725

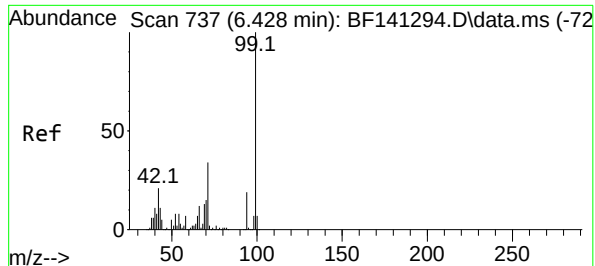
Tgt Ion:152 Resp: 67139
Ion Ratio Lower Upper
152 100
150 158.9 125.9 188.9
115 66.7 49.7 74.5



#5
2-Fluorophenol
Concen: 146.312 ng
RT: 5.422 min Scan# 566
Delta R.T. 0.012 min
Lab File: BF141455.D
Acq: 05 Feb 2025 18:54

Tgt Ion:112 Resp: 639865
Ion Ratio Lower Upper
112 100
64 63.5 49.8 74.8
63 34.5 26.1 39.1

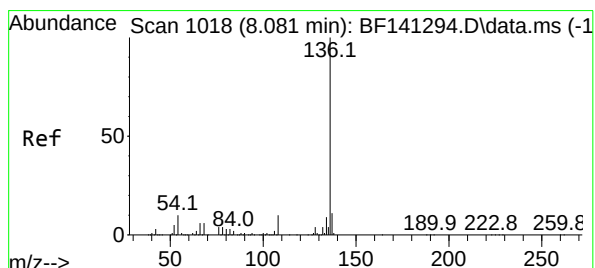
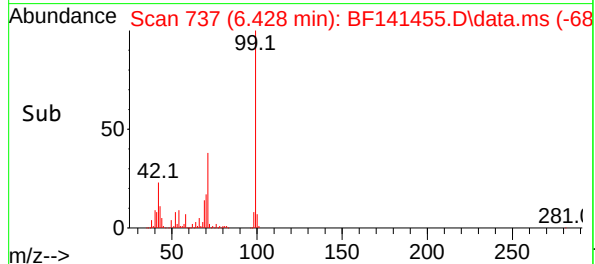
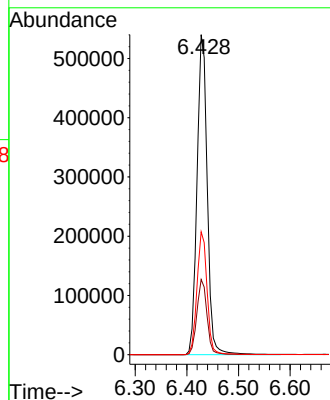
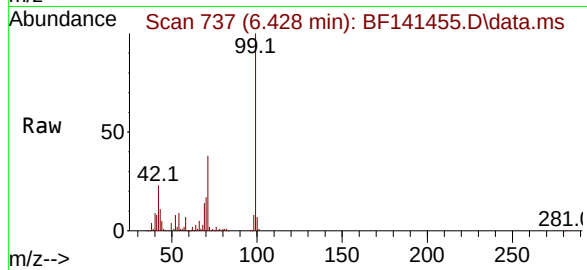




#7
Phenol-d6
Concen: 133.263 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141455.D
Acq: 05 Feb 2025 18:54

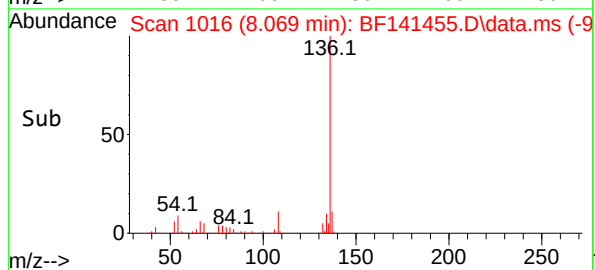
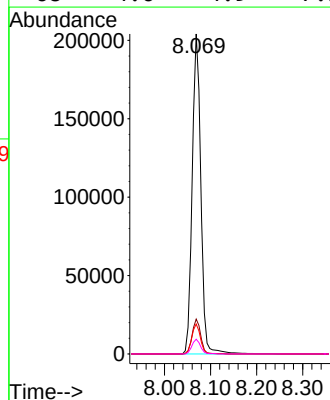
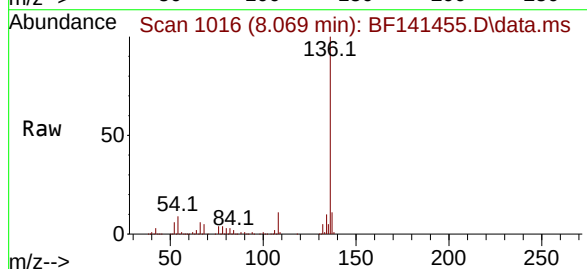
Instrument :
BNA_F
ClientSampleId :
JPP-4.5-012725

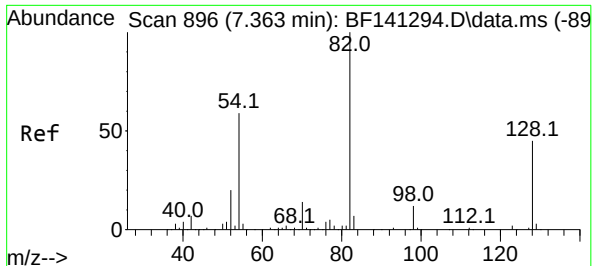
Tgt Ion: 99 Resp: 741396
Ion Ratio Lower Upper
99 100
42 23.5 17.1 25.7
71 38.4 26.9 40.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.018 min
Lab File: BF141455.D
Acq: 05 Feb 2025 18:54

Tgt Ion: 136 Resp: 265210
Ion Ratio Lower Upper
136 100
137 10.9 8.6 13.0
54 9.4 7.8 11.8
68 4.6 4.9 7.3#





#23

Nitrobenzene-d5

Concen: 112.949 ng

RT: 7.351 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF141455.D

Acq: 05 Feb 2025 18:54

Instrument :

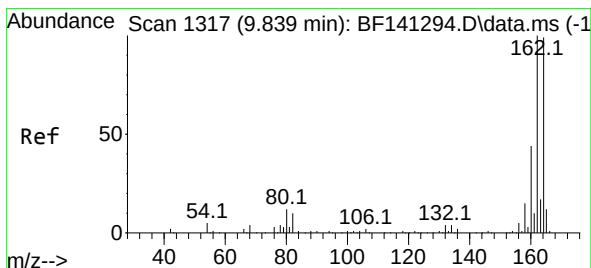
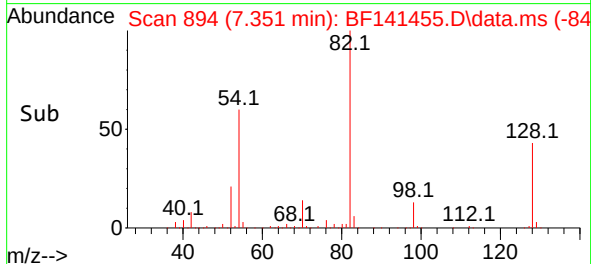
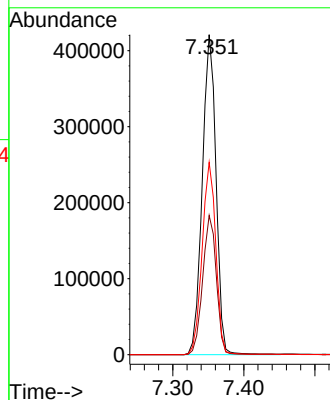
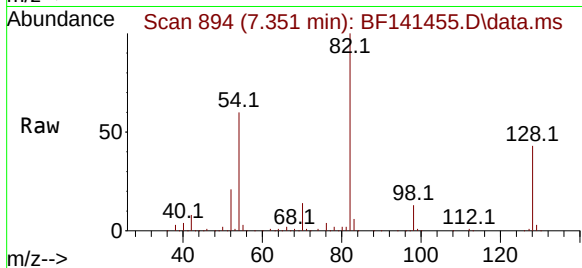
BNA_F

ClientSampleId :

JPP-4.5-012725

Tgt Ion: 82 Resp: 568230

Ion	Ratio	Lower	Upper
82	100		
128	43.5	35.7	53.5
54	60.1	47.1	70.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.822 min Scan# 1314

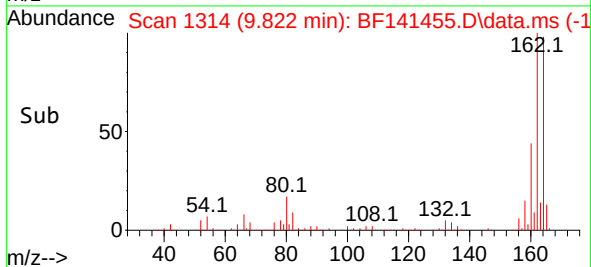
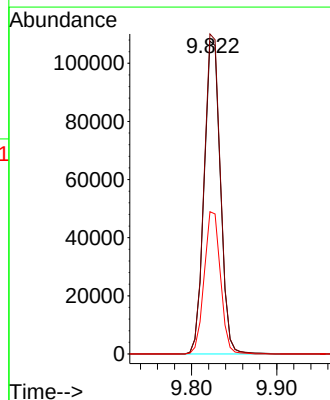
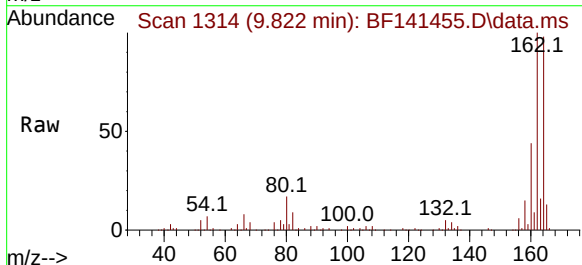
Delta R.T. -0.018 min

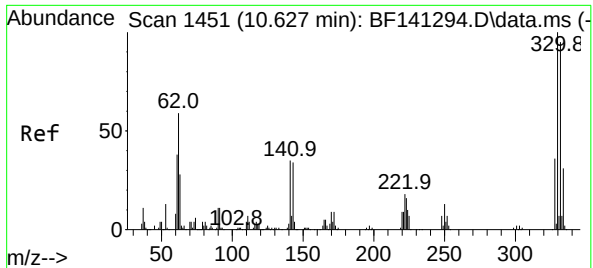
Lab File: BF141455.D

Acq: 05 Feb 2025 18:54

Tgt Ion: 164 Resp: 142949

Ion	Ratio	Lower	Upper
164	100		
162	102.3	80.6	121.0
160	45.5	35.8	53.6





#42

2,4,6-Tribromophenol

Concen: 177.156 ng

RT: 10.616 min Scan# 1449

Delta R.T. -0.018 min

Lab File: BF141455.D

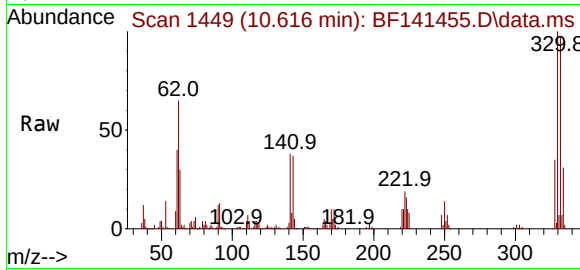
Acq: 05 Feb 2025 18:54

Instrument :

BNA_F

ClientSampleId :

JPP-4.5-012725



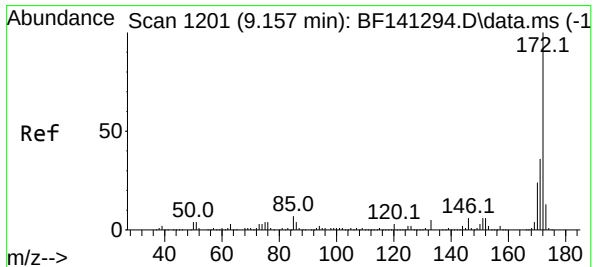
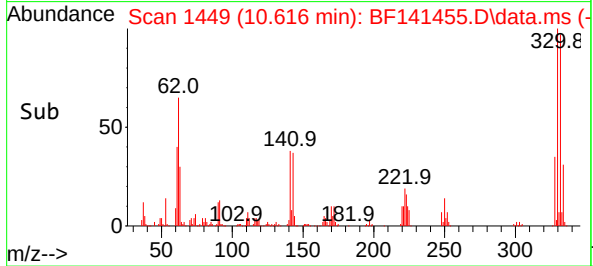
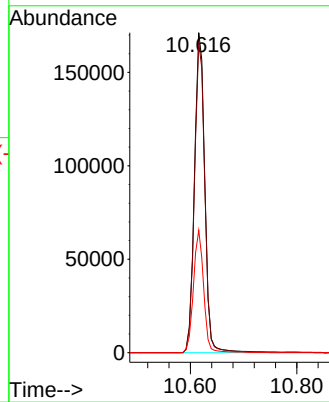
Tgt Ion:330 Resp: 232165

Ion Ratio Lower Upper

330 100

332 96.9 76.1 114.1

141 37.7 28.8 43.2



#45

2-Fluorobiphenyl

Concen: 111.501 ng

RT: 9.145 min Scan# 1199

Delta R.T. -0.018 min

Lab File: BF141455.D

Acq: 05 Feb 2025 18:54

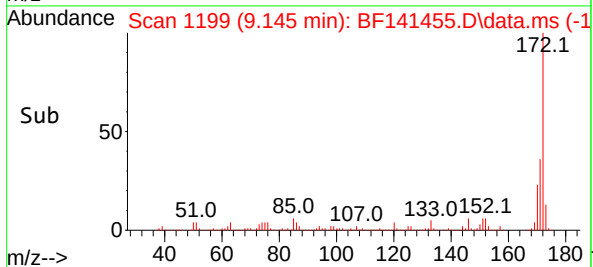
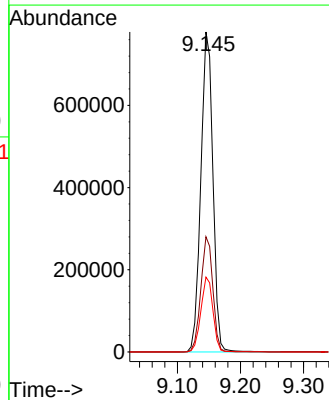
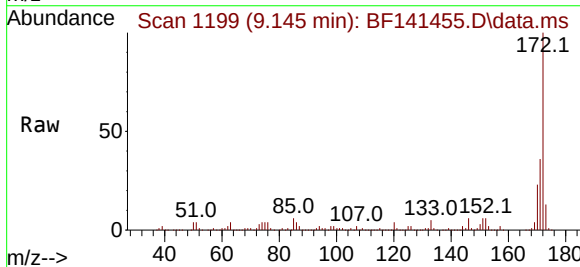
Tgt Ion:172 Resp: 1035546

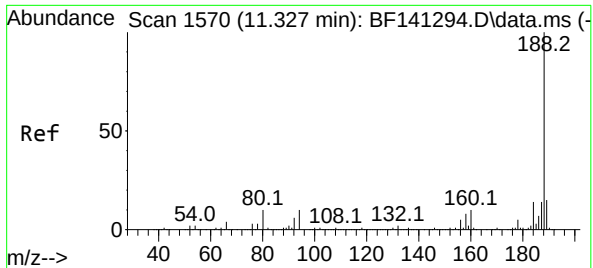
Ion Ratio Lower Upper

172 100

171 36.0 28.8 43.2

170 23.4 19.0 28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 1

Delta R.T. -0.018 min

Lab File: BF141455.D

Acq: 05 Feb 2025 18:54

Instrument :

BNA_F

ClientSampleId :

JPP-4.5-012725

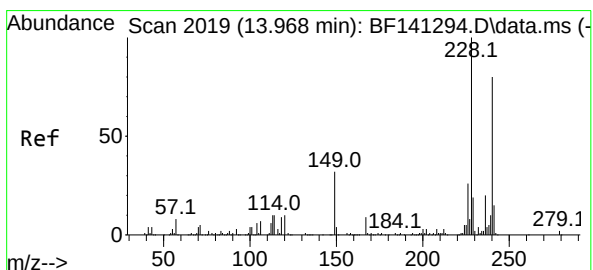
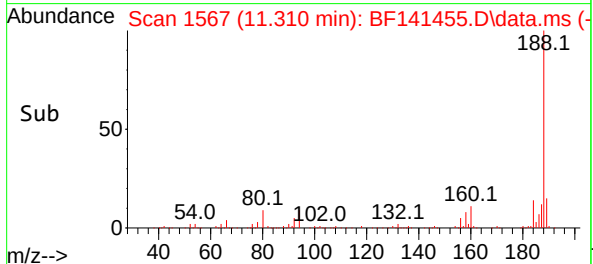
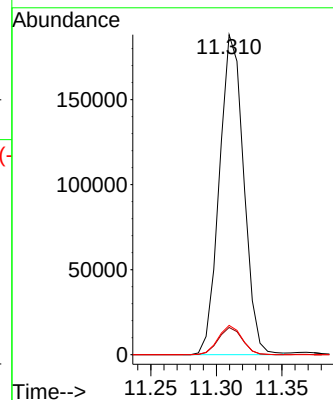
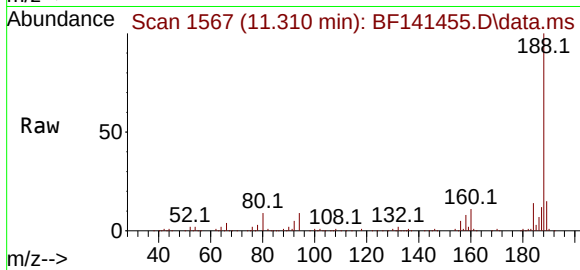
Tgt Ion:188 Resp: 242726

Ion Ratio Lower Upper

188 100

94 8.5 7.8 11.6

80 9.1 8.2 12.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.957 min Scan# 2017

Delta R.T. -0.018 min

Lab File: BF141455.D

Acq: 05 Feb 2025 18:54

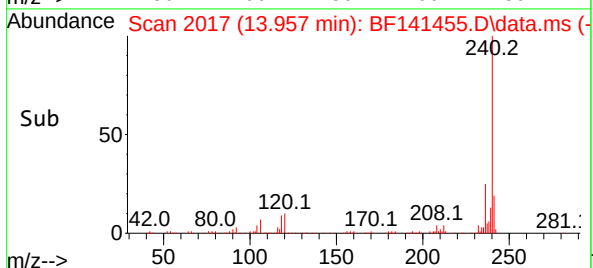
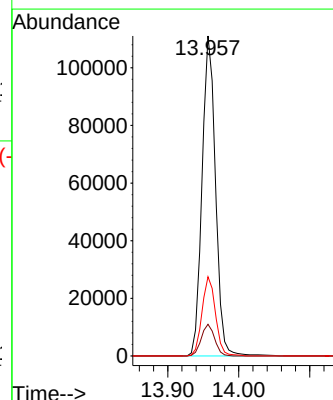
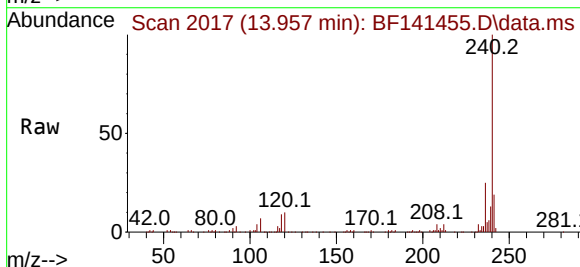
Tgt Ion:240 Resp: 146889

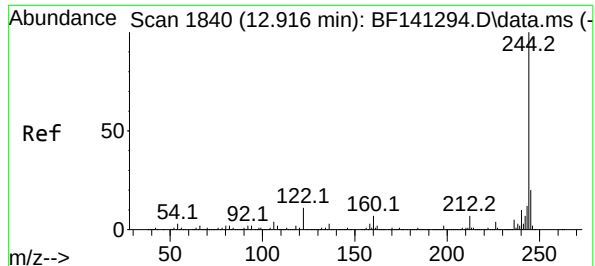
Ion Ratio Lower Upper

240 100

120 9.9 10.0 15.0#

236 24.7 19.7 29.5





#79

Terphenyl-d14

Concen: 118.683 ng

RT: 12.904 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141455.D

Acq: 05 Feb 2025 18:54

Instrument :

BNA_F

ClientSampleId :

JPP-4.5-012725

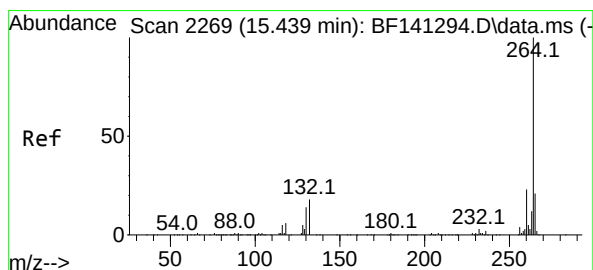
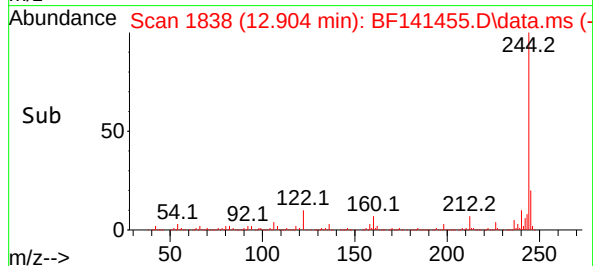
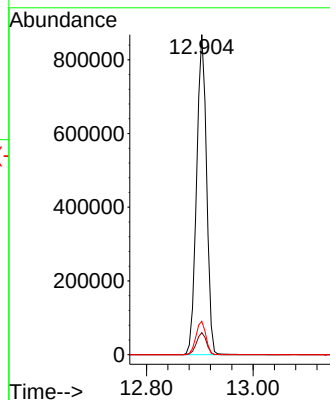
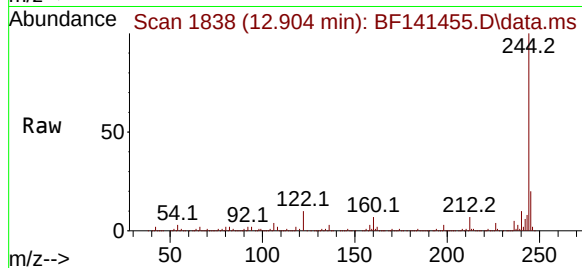
Tgt Ion:244 Resp: 1130421

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

122 10.4 8.8 13.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.433 min Scan# 2268

Delta R.T. -0.006 min

Lab File: BF141455.D

Acq: 05 Feb 2025 18:54

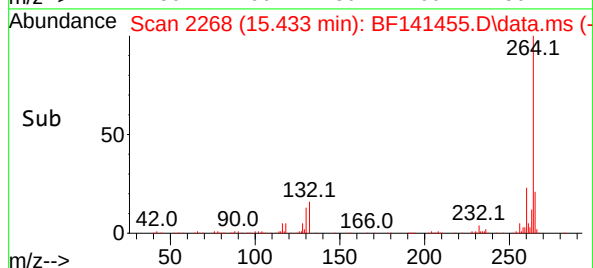
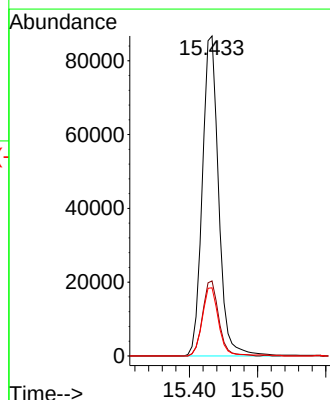
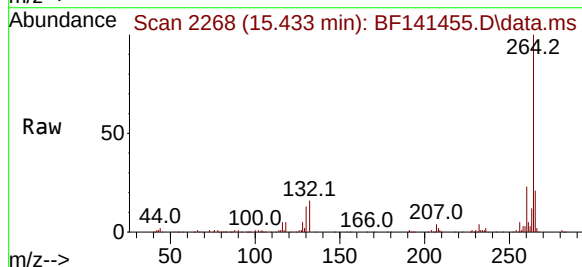
Tgt Ion:264 Resp: 144251

Ion Ratio Lower Upper

264 100

260 23.4 18.6 27.8

265 21.3 16.7 25.1



Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-16.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-16	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141456.D	1	01/29/25 12:35	02/05/25 19:20	PB166354

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	50.0	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	50.0	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	50.0	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	100	U	11.5	100	ug/L
67-72-1	Hexachloroethane	50.0	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	50.0	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	50.0	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.0	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	50.0	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	50.0	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	100	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	141		10 - 139	94%	SPK: 150
13127-88-3	Phenol-d6	129		10 - 134	86%	SPK: 150
4165-60-0	Nitrobenzene-d5	109		49 - 133	109%	SPK: 100
321-60-8	2-Fluorobiphenyl	107		52 - 132	107%	SPK: 100
118-79-6	2,4,6-Tribromophenol	170		44 - 137	114%	SPK: 150
1718-51-0	Terphenyl-d14	116		48 - 125	116%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	70100	6.787			
1146-65-2	Naphthalene-d8	275000	8.069			
15067-26-2	Acenaphthene-d10	149000	9.822			
1517-22-2	Phenanthrene-d10	249000	11.31			
1719-03-5	Chrysene-d12	147000	13.957			
1520-96-3	Perylene-d12	157000	15.427			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-16.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-16	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141456.D	1	01/29/25 12:35	02/05/25 19:20	PB166354

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\BF020525\
Data File : BF141456.D
Acq On : 05 Feb 2025 19:20
Operator : RC/JU
Sample : Q1207-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JPP-16.2-012725

Quant Time: Feb 06 01:45:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	70116	20.000	ng	-0.02
21) Naphthalene-d8	8.069	136	274847	20.000	ng	#-0.02
39) Acenaphthene-d10	9.822	164	148681	20.000	ng	-0.02
64) Phenanthrene-d10	11.310	188	249488	20.000	ng	-0.02
76) Chrysene-d12	13.957	240	146891	20.000	ng	-0.02
86) Perylene-d12	15.427	264	157396	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	642185	140.608	ng	0.01
7) Phenol-d6	6.428	99	746850	128.544	ng	-0.01
23) Nitrobenzene-d5	7.351	82	565944	108.550	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	232332	170.449	ng	-0.02
45) 2-Fluorobiphenyl	9.145	172	1033724	107.014	ng	-0.02
79) Terphenyl-d14	12.904	244	1102246	115.723	ng	-0.01

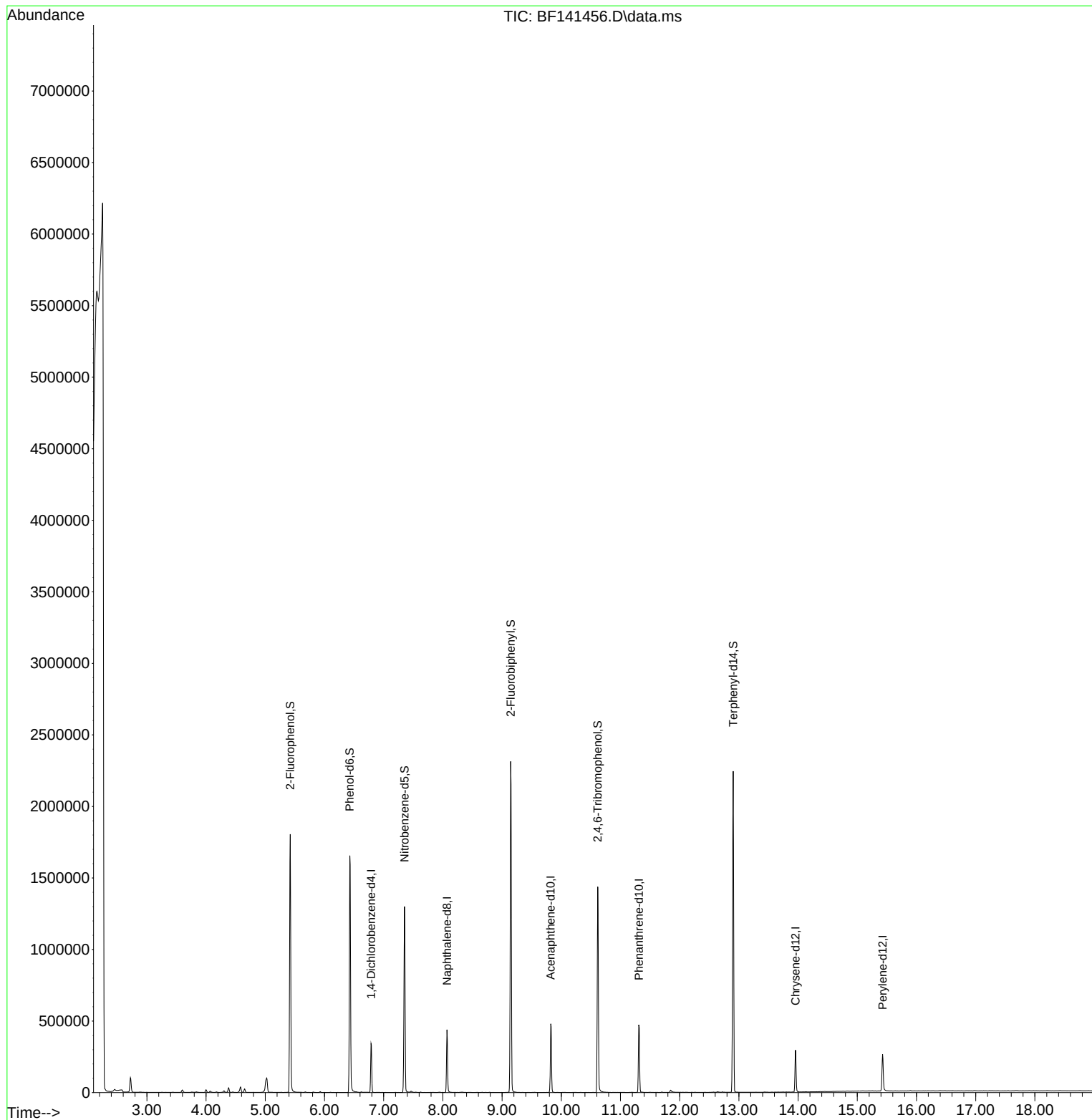
Target Compounds	Qvalue

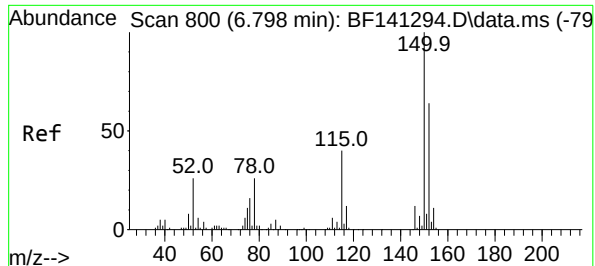
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141456.D
Acq On : 05 Feb 2025 19:20
Operator : RC/JU
Sample : Q1207-16
Misc :
ALS Vial : 11 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JPP-16.2-012725

Quant Time: Feb 06 01:45:35 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

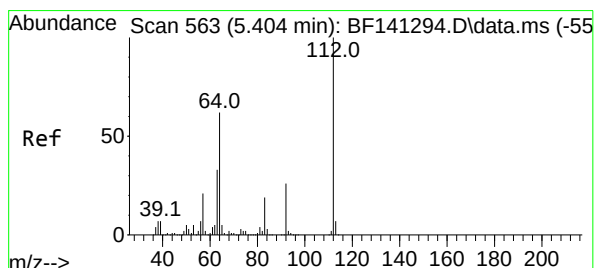
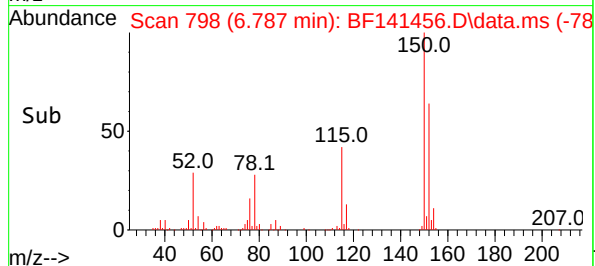
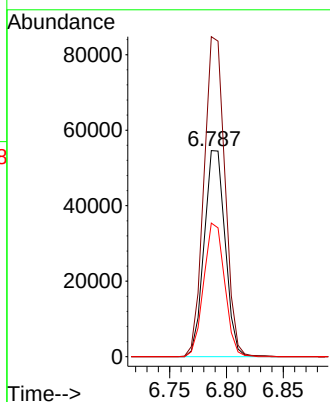
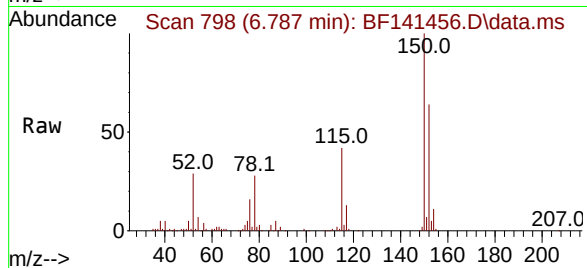




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 701
Delta R.T. -0.017 min
Lab File: BF141456.D
Acq: 05 Feb 2025 19:20

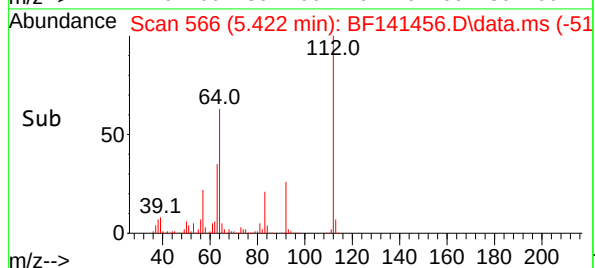
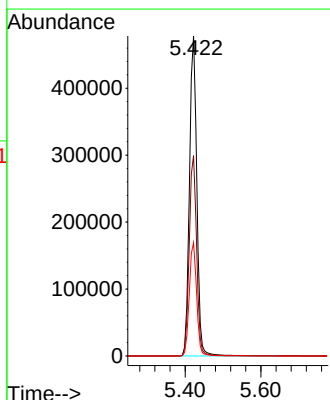
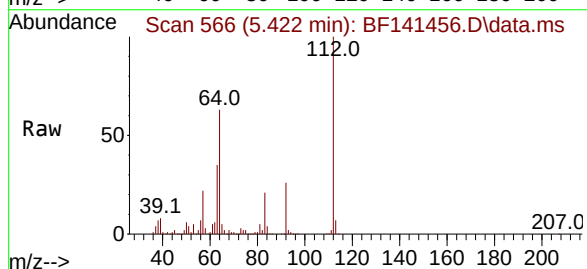
Instrument :
BNA_F
ClientSampleId :
JPP-16.2-012725

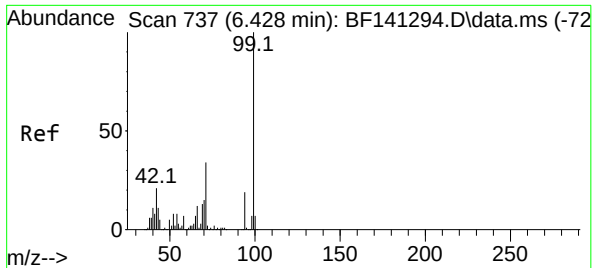
Tgt Ion:152 Resp: 70116
Ion Ratio Lower Upper
152 100
150 155.3 125.9 188.9
115 64.8 49.7 74.5



#5
2-Fluorophenol
Concen: 140.608 ng
RT: 5.422 min Scan# 566
Delta R.T. 0.012 min
Lab File: BF141456.D
Acq: 05 Feb 2025 19:20

Tgt Ion:112 Resp: 642185
Ion Ratio Lower Upper
112 100
64 62.6 49.8 74.8
63 35.4 26.1 39.1

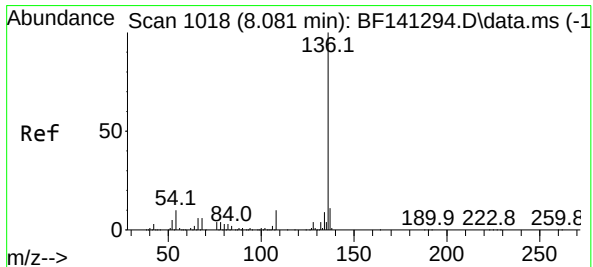
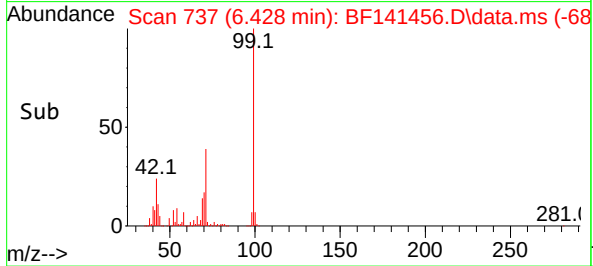
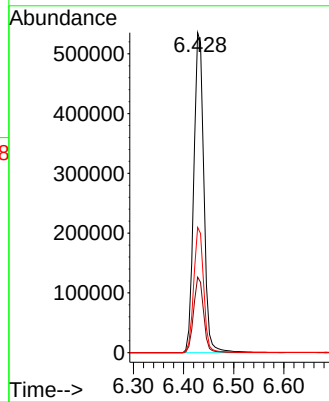
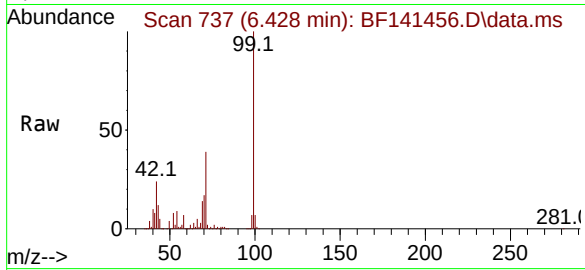




#7
Phenol-d6
Concen: 128.544 ng
RT: 6.428 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF141456.D
Acq: 05 Feb 2025 19:20

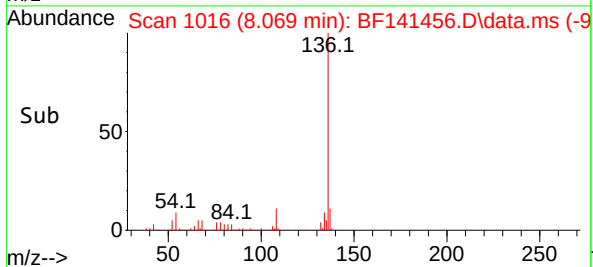
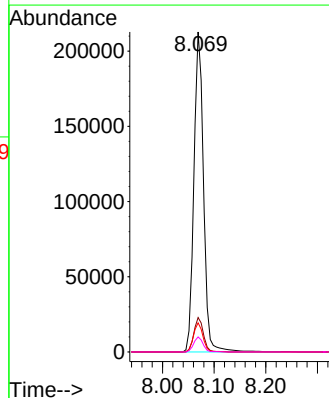
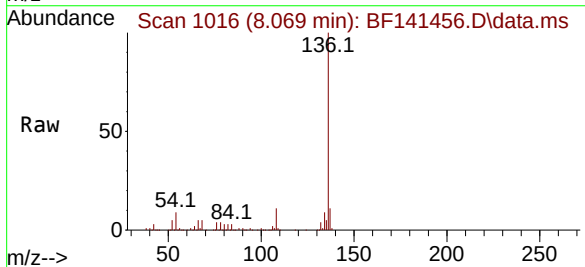
Instrument :
BNA_F
ClientSampleId :
JPP-16.2-012725

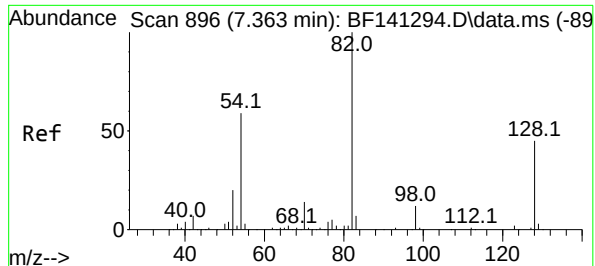
Tgt Ion: 99 Resp: 746850
Ion Ratio Lower Upper
99 100
42 23.6 17.1 25.7
71 39.2 26.9 40.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.018 min
Lab File: BF141456.D
Acq: 05 Feb 2025 19:20

Tgt Ion: 136 Resp: 274847
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 9.1 7.8 11.8
68 4.7 4.9 7.3#





#23

Nitrobenzene-d5

Concen: 108.550 ng

RT: 7.351 min Scan# 894

Delta R.T. -0.018 min

Lab File: BF141456.D

Acq: 05 Feb 2025 19:20

Instrument :

BNA_F

ClientSampleId :

JPP-16.2-012725

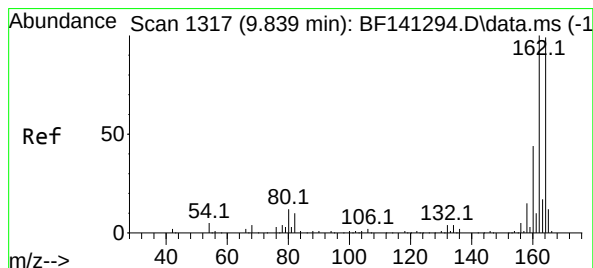
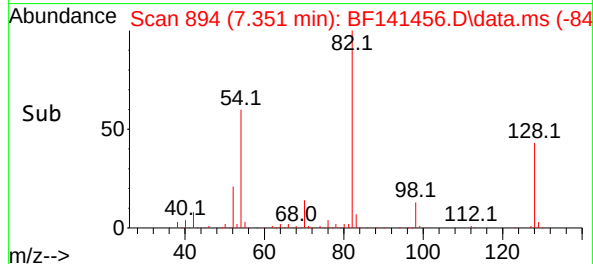
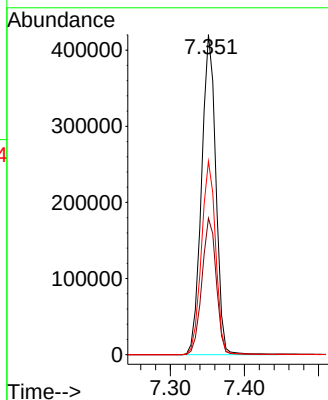
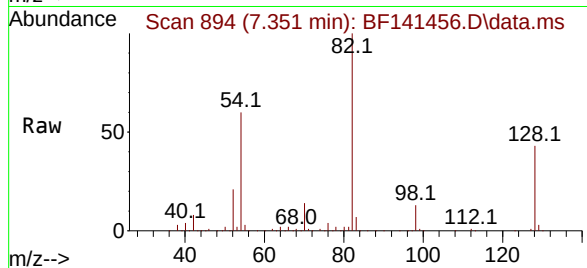
Tgt Ion: 82 Resp: 565944

Ion Ratio Lower Upper

82 100

128 42.7 35.7 53.5

54 60.5 47.1 70.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.822 min Scan# 1314

Delta R.T. -0.018 min

Lab File: BF141456.D

Acq: 05 Feb 2025 19:20

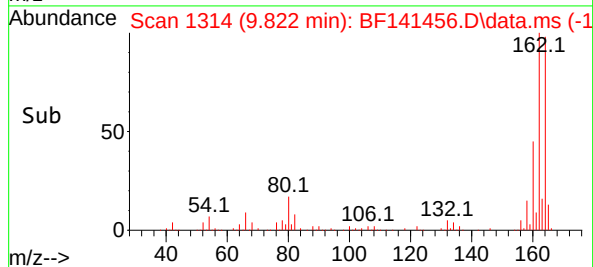
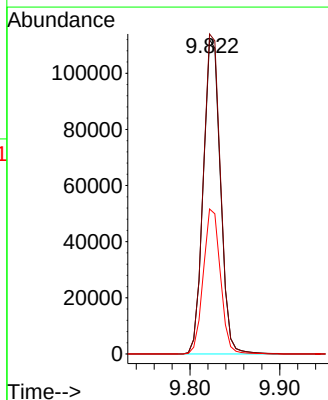
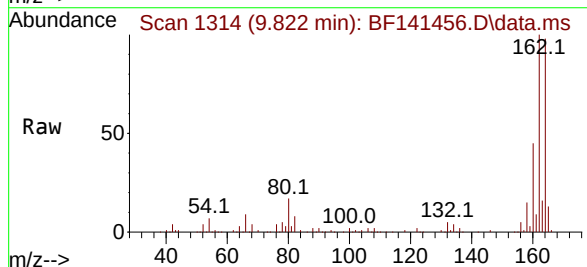
Tgt Ion:164 Resp: 148681

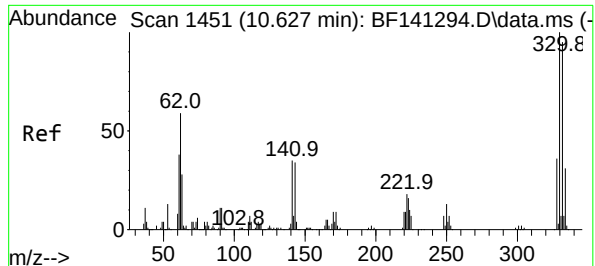
Ion Ratio Lower Upper

164 100

162 101.8 80.6 121.0

160 46.1 35.8 53.6





#42

2,4,6-Tribromophenol

Concen: 170.449 ng

RT: 10.616 min Scan# 1449

Delta R.T. -0.018 min

Lab File: BF141456.D

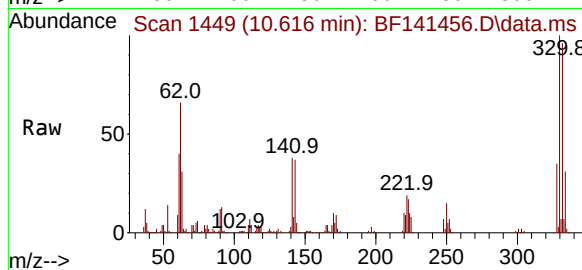
Acq: 05 Feb 2025 19:20

Instrument :

BNA_F

ClientSampleId :

JPP-16.2-012725



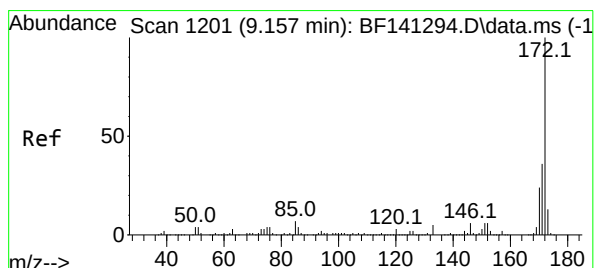
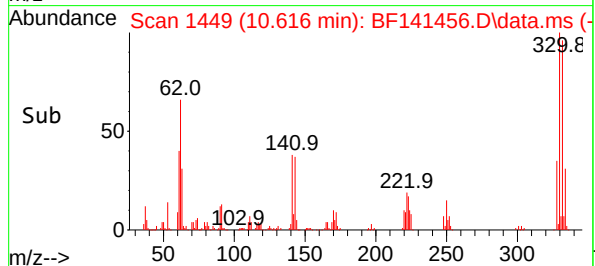
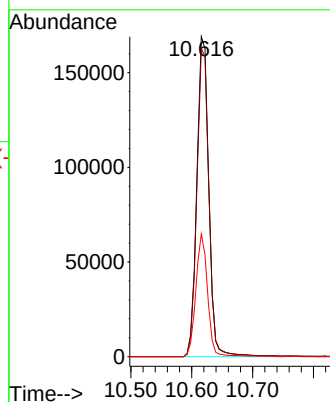
Tgt Ion:330 Resp: 232332

Ion Ratio Lower Upper

330 100

332 97.0 76.1 114.1

141 37.6 28.8 43.2



#45

2-Fluorobiphenyl

Concen: 107.014 ng

RT: 9.145 min Scan# 1199

Delta R.T. -0.018 min

Lab File: BF141456.D

Acq: 05 Feb 2025 19:20

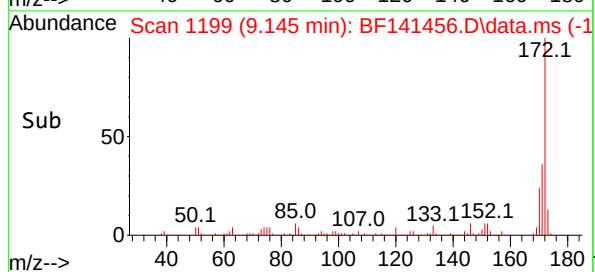
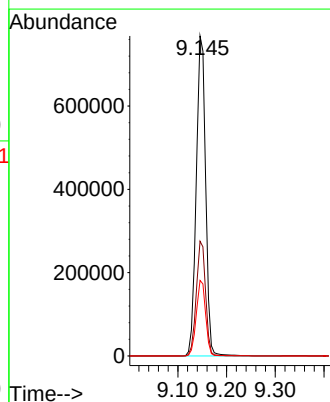
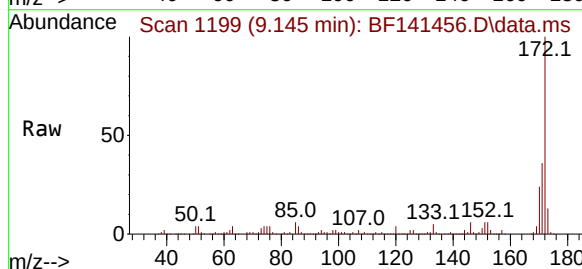
Tgt Ion:172 Resp: 1033724

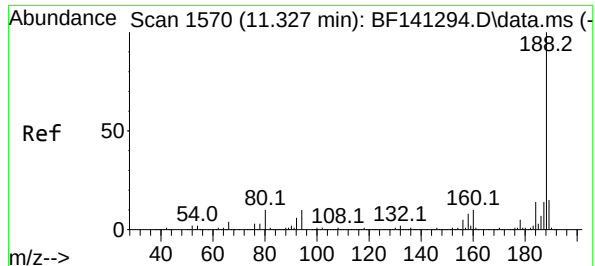
Ion Ratio Lower Upper

172 100

171 35.8 28.8 43.2

170 23.6 19.0 28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 1

Delta R.T. -0.018 min

Lab File: BF141456.D

Acq: 05 Feb 2025 19:20

Instrument :

BNA_F

ClientSampleId :

JPP-16.2-012725

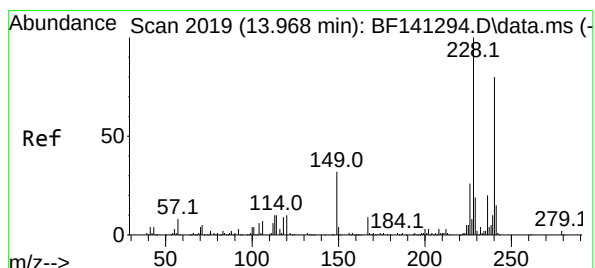
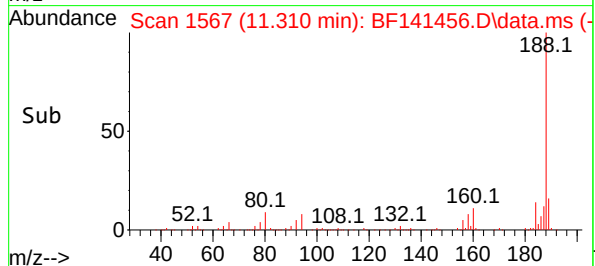
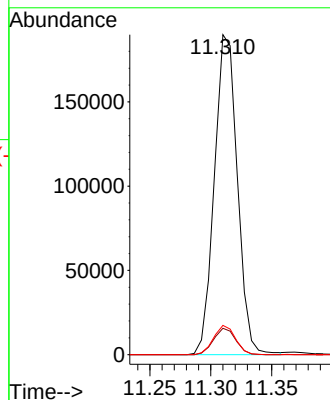
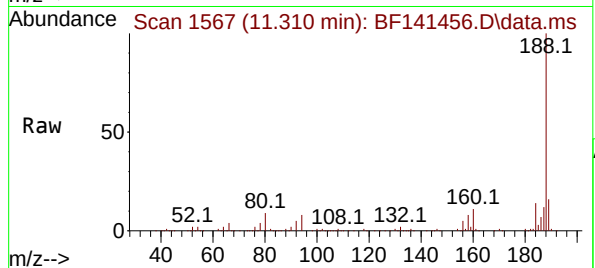
Tgt Ion:188 Resp: 249488

Ion Ratio Lower Upper

188 100

94 8.3 7.8 11.6

80 9.2 8.2 12.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.957 min Scan# 2017

Delta R.T. -0.018 min

Lab File: BF141456.D

Acq: 05 Feb 2025 19:20

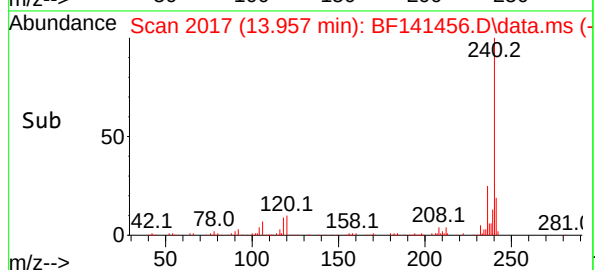
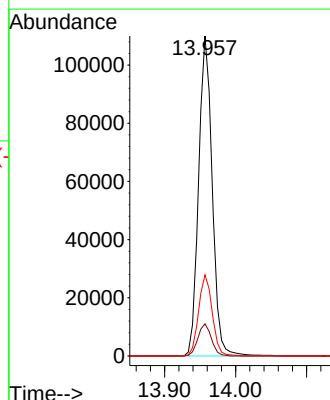
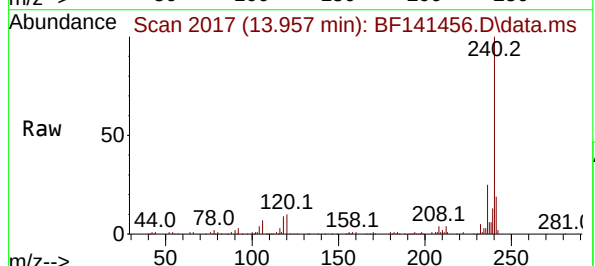
Tgt Ion:240 Resp: 146891

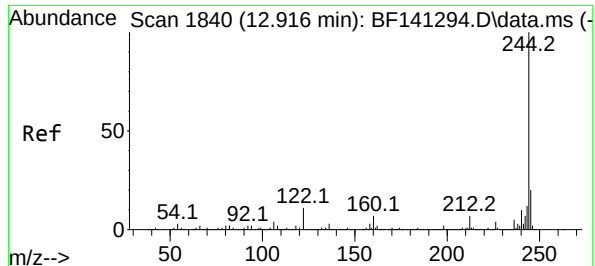
Ion Ratio Lower Upper

240 100

120 10.1 10.0 15.0

236 25.4 19.7 29.5





#79

Terphenyl-d14

Concen: 115.723 ng

RT: 12.904 min Scan# 1838

Delta R.T. -0.012 min

Lab File: BF141456.D

Acq: 05 Feb 2025 19:20

Instrument :

BNA_F

ClientSampleId :

JPP-16.2-012725

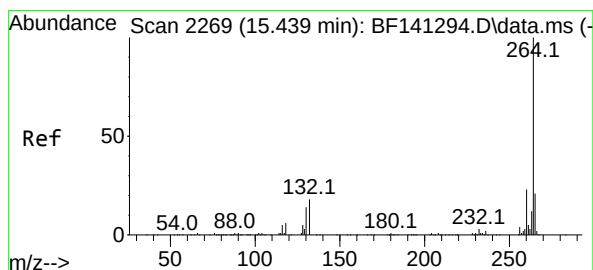
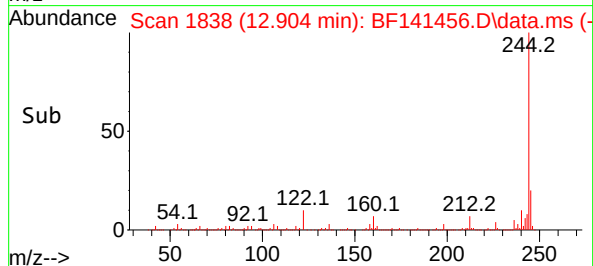
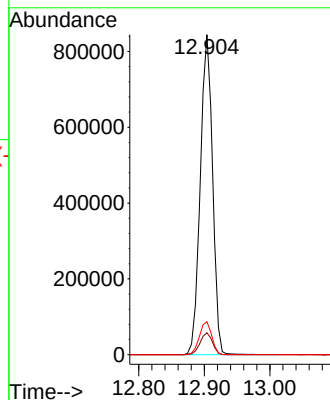
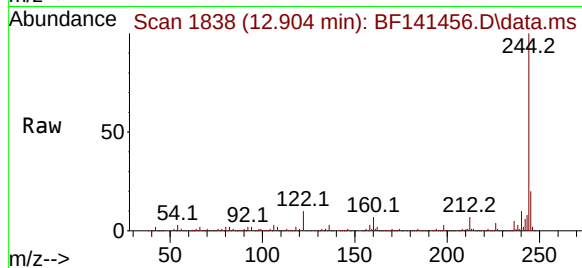
Tgt Ion:244 Resp: 1102246

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

122 10.3 8.8 13.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.427 min Scan# 2267

Delta R.T. -0.012 min

Lab File: BF141456.D

Acq: 05 Feb 2025 19:20

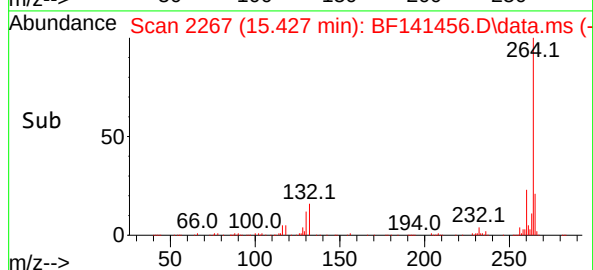
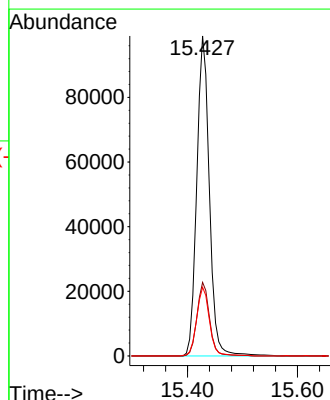
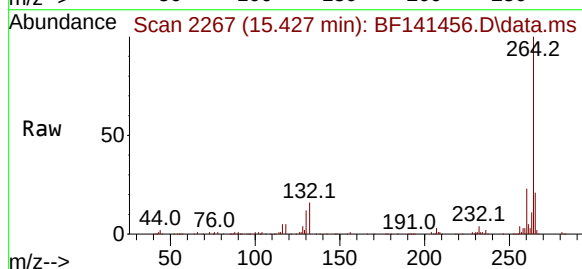
Tgt Ion:264 Resp: 157396

Ion Ratio Lower Upper

264 100

260 23.0 18.6 27.8

265 21.4 16.7 25.1



Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-20.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-20	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141454.D	1	01/29/25 12:35	02/05/25 18:27	PB166354

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	50.0	U	15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	50.0	U	8.40	50.0	ug/L
95-48-7	2-Methylphenol	50.0	U	11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	100	U	11.5	100	ug/L
67-72-1	Hexachloroethane	50.0	U	10.1	50.0	ug/L
98-95-3	Nitrobenzene	50.0	U	12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	50.0	U	12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	50.0	U	8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	50.0	U	10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	50.0	U	15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	50.0	U	11.4	50.0	ug/L
87-86-5	Pentachlorophenol	100	U	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	152		10 - 139	101%	SPK: 150
13127-88-3	Phenol-d6	136		10 - 134	91%	SPK: 150
4165-60-0	Nitrobenzene-d5	116		49 - 133	116%	SPK: 100
321-60-8	2-Fluorobiphenyl	115		52 - 132	115%	SPK: 100
118-79-6	2,4,6-Tribromophenol	184		44 - 137	123%	SPK: 150
1718-51-0	Terphenyl-d14	125		48 - 125	125%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	67600	6.792			
1146-65-2	Naphthalene-d8	272000	8.069			
15067-26-2	Acenaphthene-d10	146000	9.822			
1517-22-2	Phenanthrene-d10	252000	11.31			
1719-03-5	Chrysene-d12	149000	13.957			
1520-96-3	Perylene-d12	148000	15.421			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/27/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	JPP-20.2-012725	SDG No.:	Q1207
Lab Sample ID:	Q1207-20	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3541		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141454.D	1	01/29/25 12:35	02/05/25 18:27	PB166354

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\BF020525\
Data File : BF141454.D
Acq On : 05 Feb 2025 18:27
Operator : RC/JU
Sample : Q1207-20
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JPP-20.2-012725

Quant Time: Feb 06 01:44:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	67649	20.000	ng	-0.01
21) Naphthalene-d8	8.069	136	271784	20.000	ng	#-0.02
39) Acenaphthene-d10	9.822	164	146327	20.000	ng	-0.02
64) Phenanthrene-d10	11.310	188	252173	20.000	ng	-0.02
76) Chrysene-d12	13.957	240	148665	20.000	ng	#-0.02
86) Perylene-d12	15.421	264	147857	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	670544	152.171	ng	0.01
7) Phenol-d6	6.434	99	763998	136.290	ng	0.00
23) Nitrobenzene-d5	7.351	82	596482	115.696	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	246838	184.004	ng	-0.02
45) 2-Fluorobiphenyl	9.145	172	1096891	115.380	ng	-0.02
79) Terphenyl-d14	12.904	244	1202582	124.751	ng	-0.01

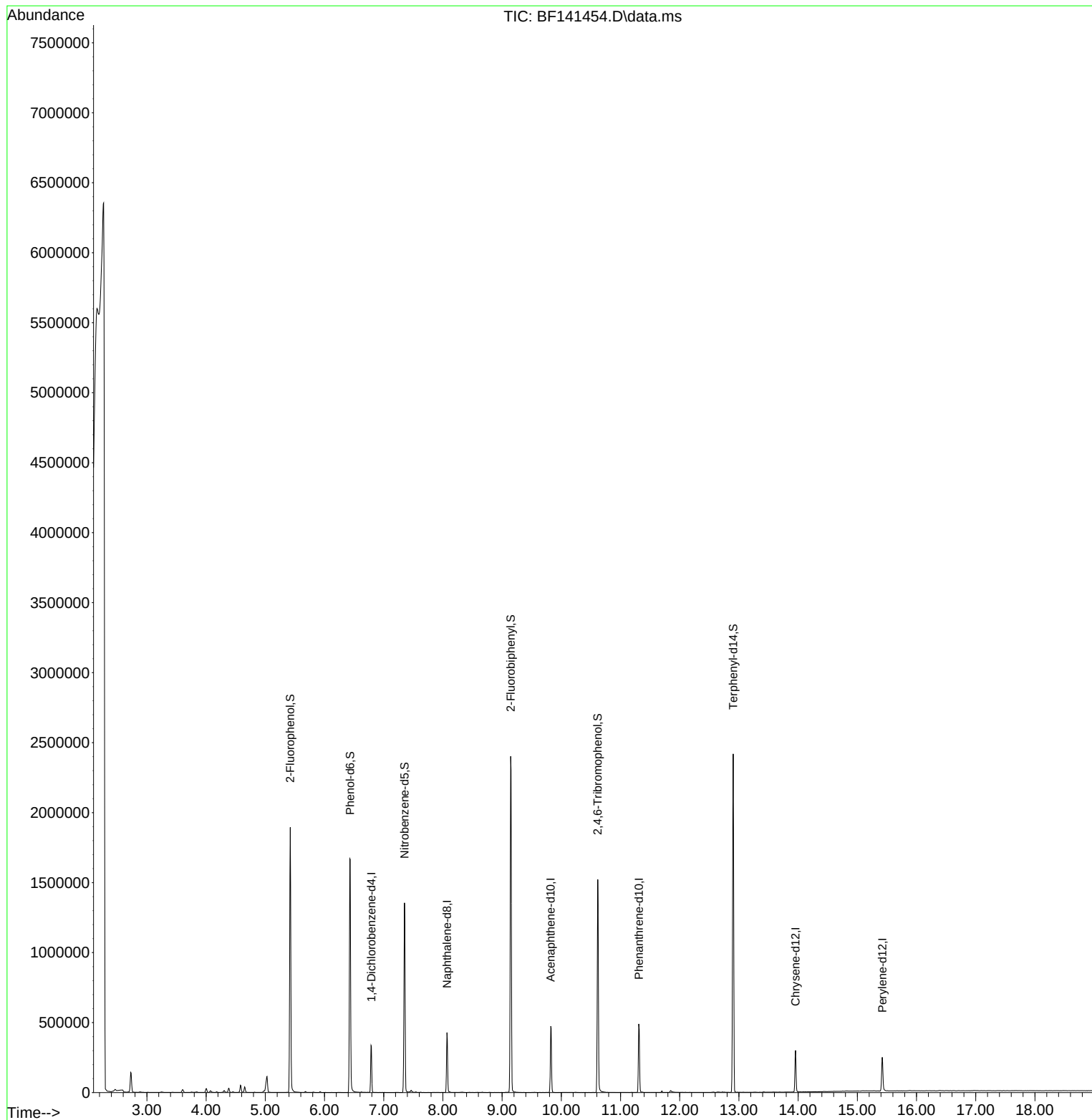
Target Compounds	Qvalue

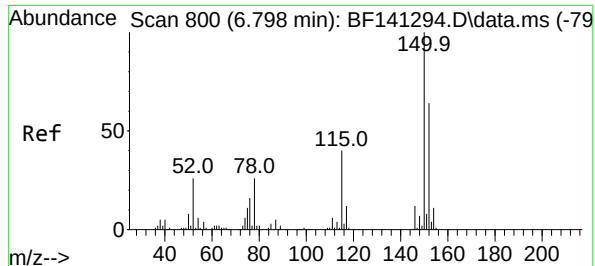
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141454.D
Acq On : 05 Feb 2025 18:27
Operator : RC/JU
Sample : Q1207-20
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
JPP-20.2-012725

Quant Time: Feb 06 01:44:48 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

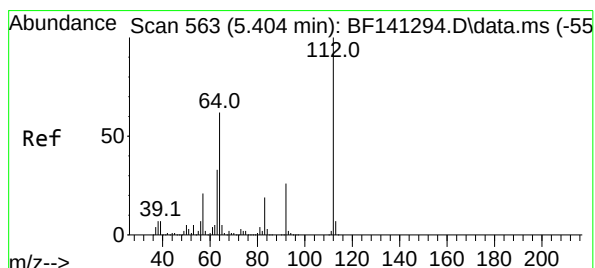
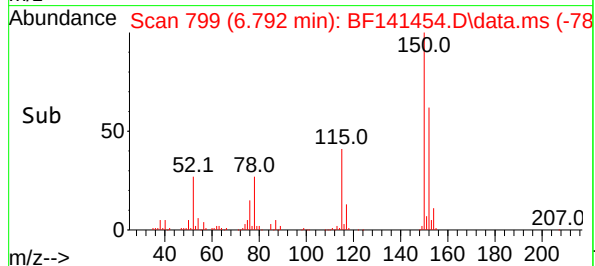
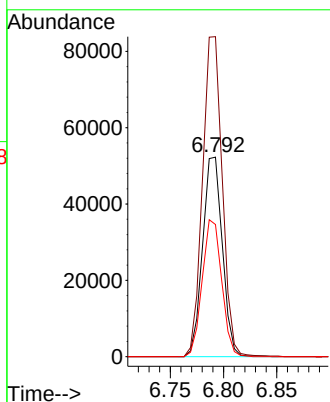
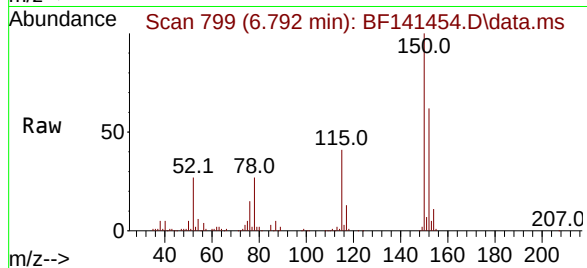




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 79
Delta R.T. -0.012 min
Lab File: BF141454.D
Acq: 05 Feb 2025 18:27

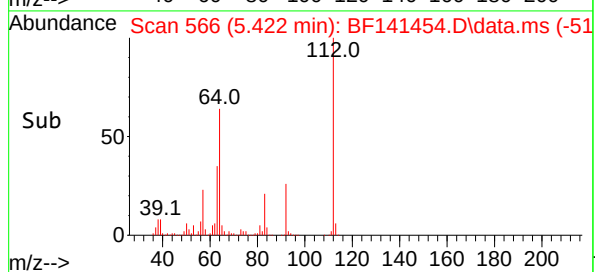
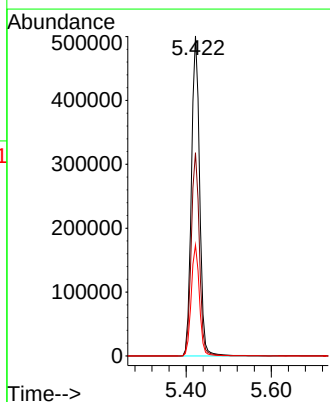
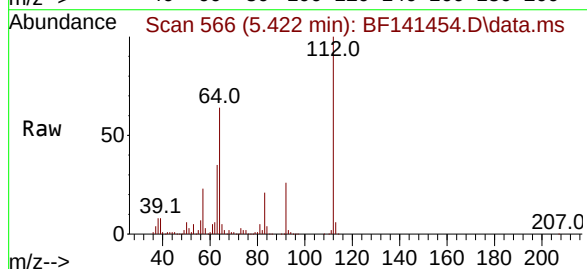
Instrument :
BNA_F
ClientSampleId :
JPP-20.2-012725

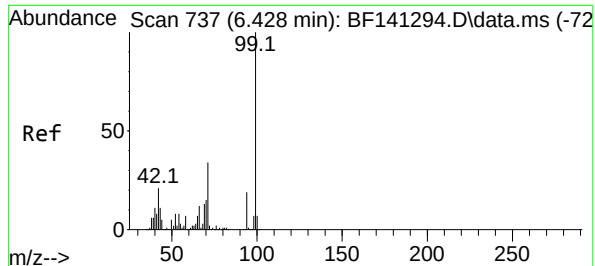
Tgt Ion:152 Resp: 67649
Ion Ratio Lower Upper
152 100
150 160.3 125.9 188.9
115 66.2 49.7 74.5



#5
2-Fluorophenol
Concen: 152.171 ng
RT: 5.422 min Scan# 566
Delta R.T. 0.012 min
Lab File: BF141454.D
Acq: 05 Feb 2025 18:27

Tgt Ion:112 Resp: 670544
Ion Ratio Lower Upper
112 100
64 63.5 49.8 74.8
63 34.7 26.1 39.1

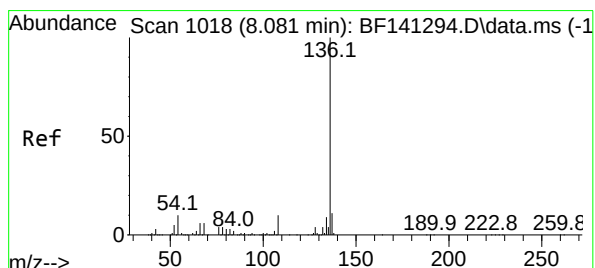
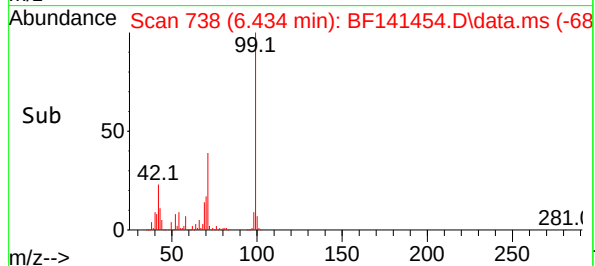
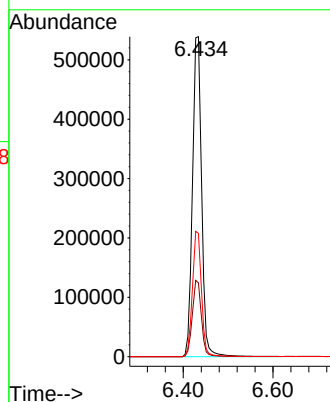
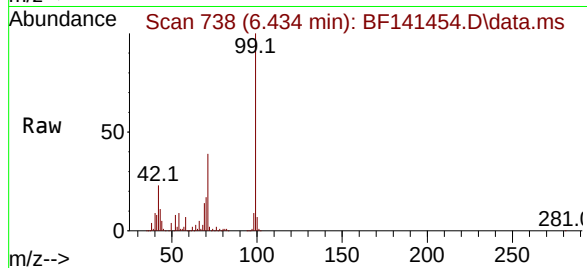




#7
Phenol-d6
Concen: 136.290 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141454.D
Acq: 05 Feb 2025 18:27

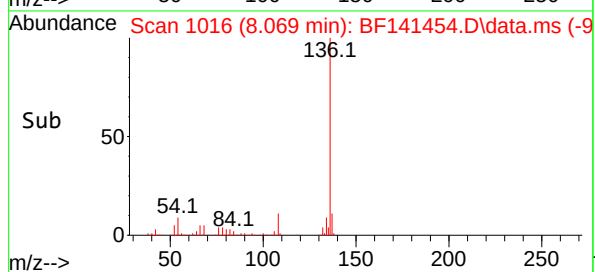
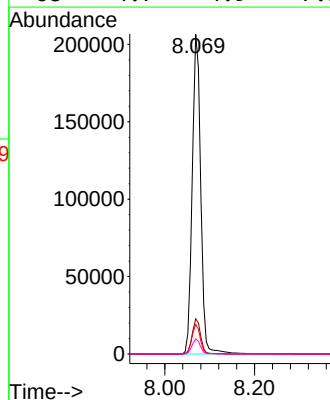
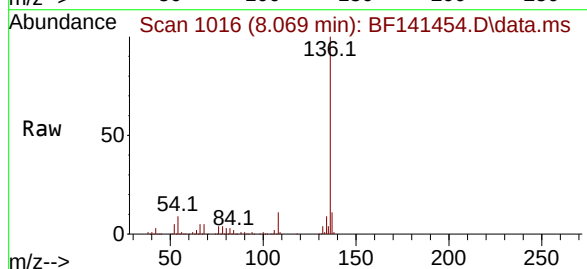
Instrument :
BNA_F
ClientSampleId :
JPP-20.2-012725

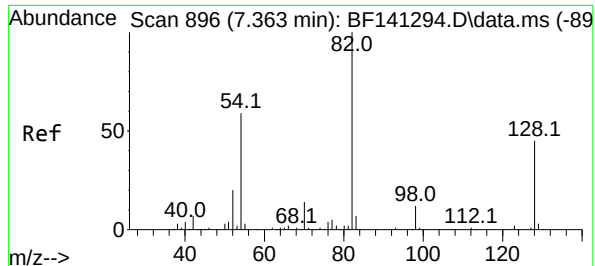
Tgt Ion: 99 Resp: 763998
Ion Ratio Lower Upper
99 100
42 23.1 17.1 25.7
71 38.6 26.9 40.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.069 min Scan# 1016
Delta R.T. -0.018 min
Lab File: BF141454.D
Acq: 05 Feb 2025 18:27

Tgt Ion: 136 Resp: 271784
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 9.3 7.8 11.8
68 4.7 4.9 7.3#





#23

Nitrobenzene-d5

Concen: 115.696 ng

RT: 7.351 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF141454.D

Acq: 05 Feb 2025 18:27

Instrument :

BNA_F

ClientSampleId :

JPP-20.2-012725

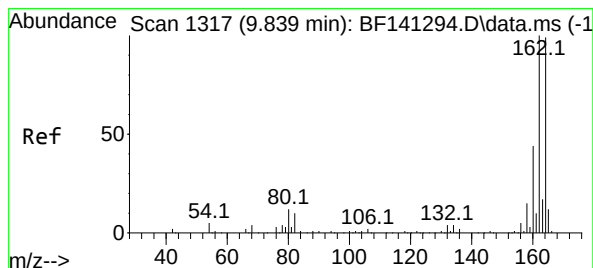
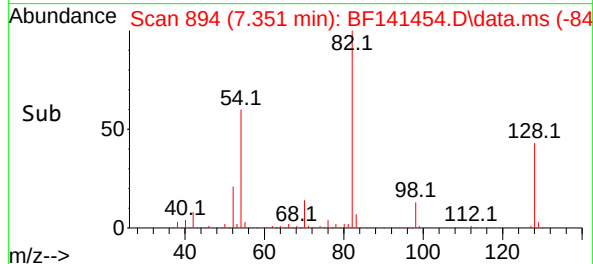
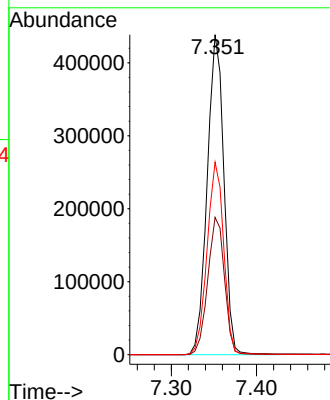
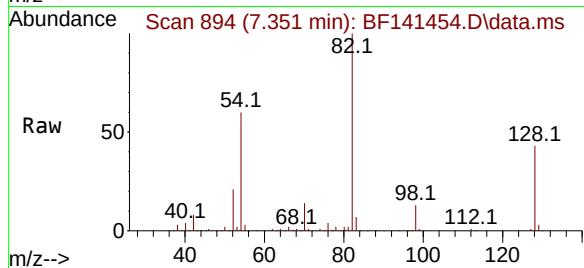
Tgt Ion: 82 Resp: 596482

Ion Ratio Lower Upper

82 100

128 42.9 35.7 53.5

54 60.1 47.1 70.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.822 min Scan# 1314

Delta R.T. -0.018 min

Lab File: BF141454.D

Acq: 05 Feb 2025 18:27

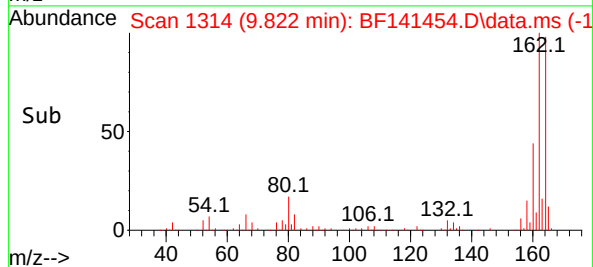
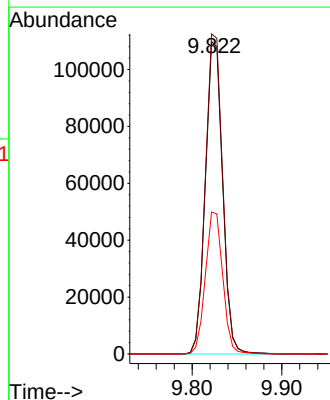
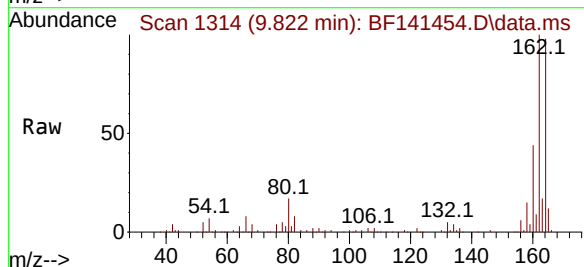
Tgt Ion:164 Resp: 146327

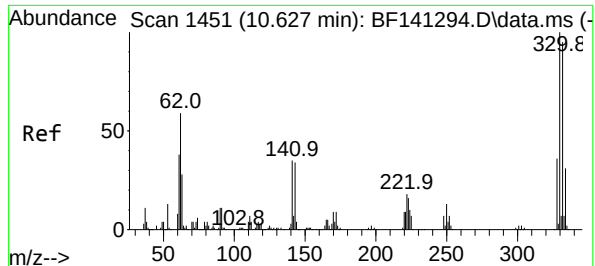
Ion Ratio Lower Upper

164 100

162 102.5 80.6 121.0

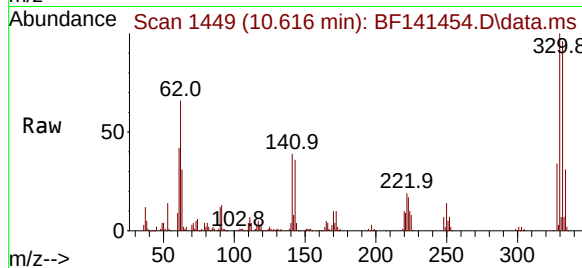
160 45.5 35.8 53.6



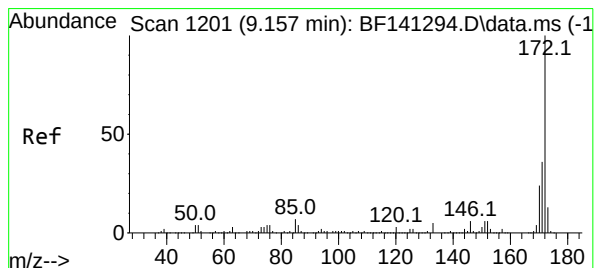
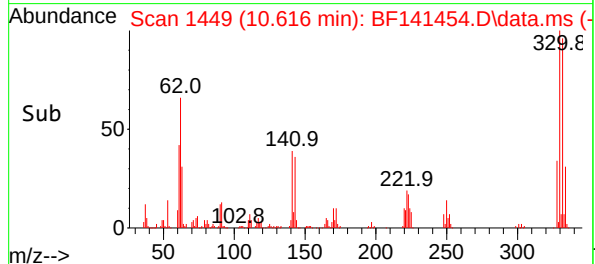
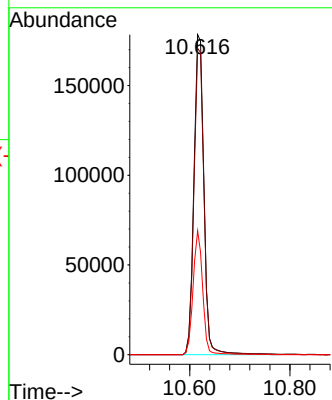


#42
2,4,6-Tribromophenol
Concen: 184.004 ng
RT: 10.616 min Scan# 1449
Delta R.T. -0.018 min
Lab File: BF141454.D
Acq: 05 Feb 2025 18:27

Instrument :
BNA_F
ClientSampleId :
JPP-20.2-012725

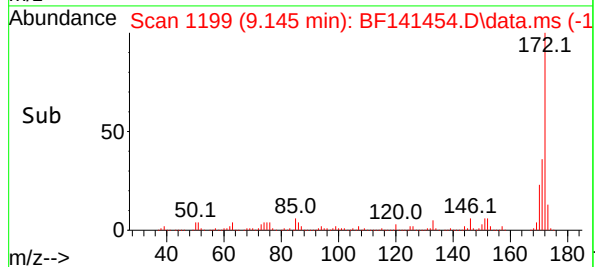
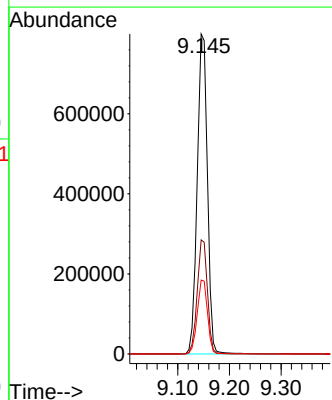
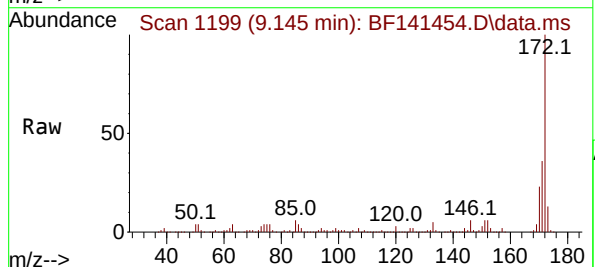


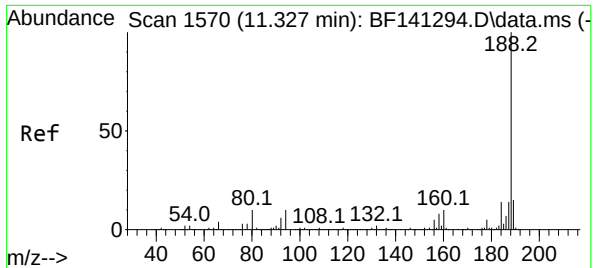
Tgt Ion:330 Resp: 246838
Ion Ratio Lower Upper
330 100
332 96.0 76.1 114.1
141 37.0 28.8 43.2



#45
2-Fluorobiphenyl
Concen: 115.380 ng
RT: 9.145 min Scan# 1199
Delta R.T. -0.018 min
Lab File: BF141454.D
Acq: 05 Feb 2025 18:27

Tgt Ion:172 Resp: 1096891
Ion Ratio Lower Upper
172 100
171 35.7 28.8 43.2
170 23.1 19.0 28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.310 min Scan# 1

Delta R.T. -0.018 min

Lab File: BF141454.D

Acq: 05 Feb 2025 18:27

Instrument :

BNA_F

ClientSampleId :

JPP-20.2-012725

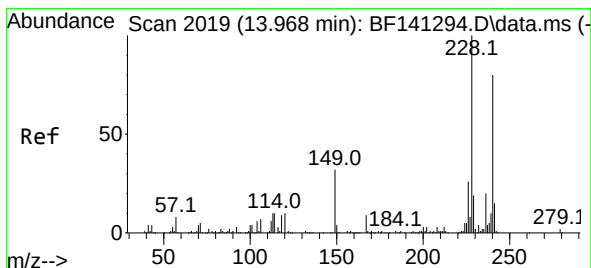
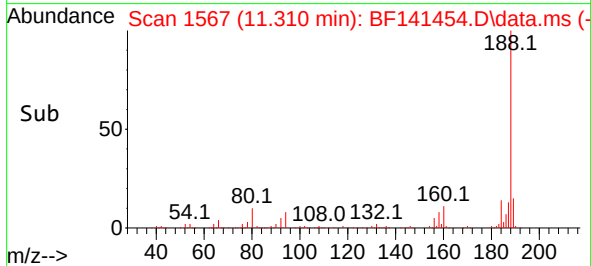
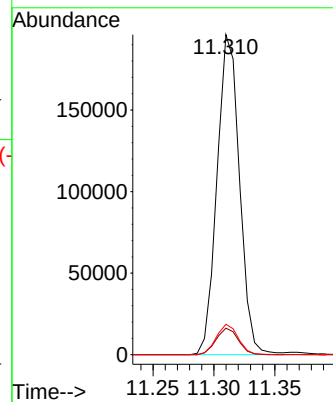
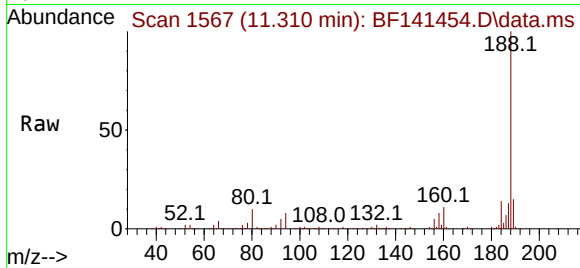
Tgt Ion:188 Resp: 252173

Ion Ratio Lower Upper

188 100

94 8.3 7.8 11.6

80 9.5 8.2 12.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.957 min Scan# 2017

Delta R.T. -0.018 min

Lab File: BF141454.D

Acq: 05 Feb 2025 18:27

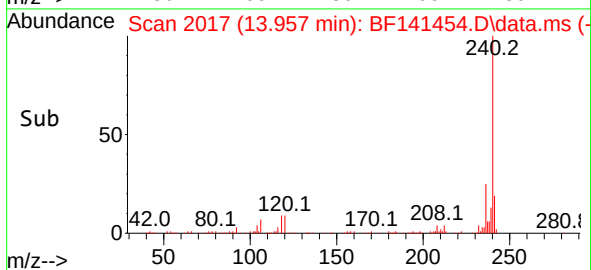
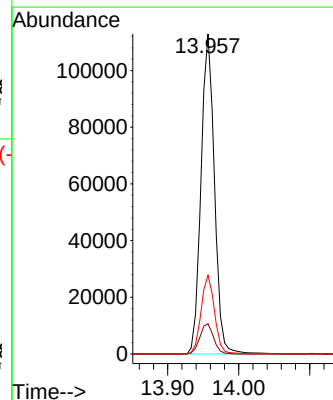
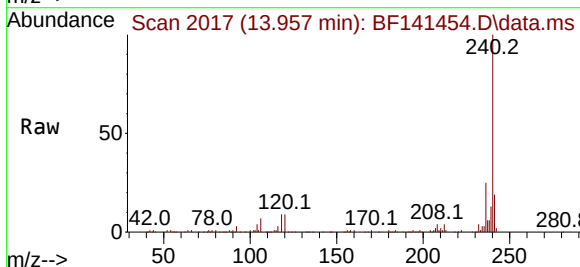
Tgt Ion:240 Resp: 148665

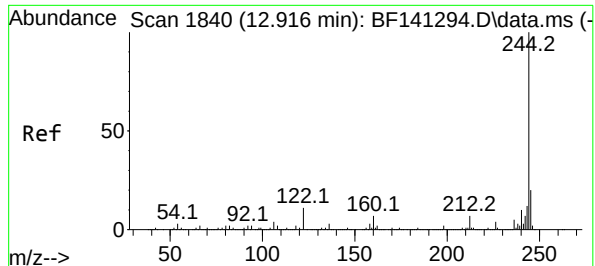
Ion Ratio Lower Upper

240 100

120 9.4 10.0 15.0#

236 24.6 19.7 29.5





#79

Terphenyl-d14

Concen: 124.751 ng

RT: 12.904 min Scan# 1838

Delta R.T. -0.012 min

Lab File: BF141454.D

Acq: 05 Feb 2025 18:27

Instrument :

BNA_F

ClientSampleId :

JPP-20.2-012725

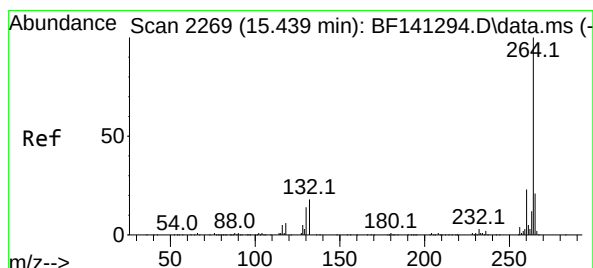
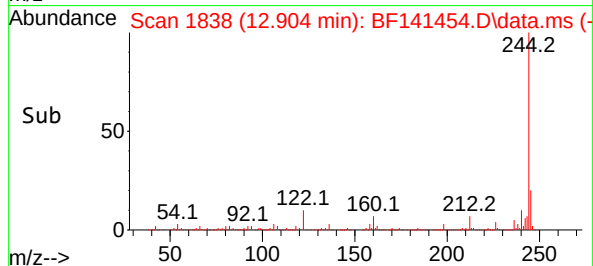
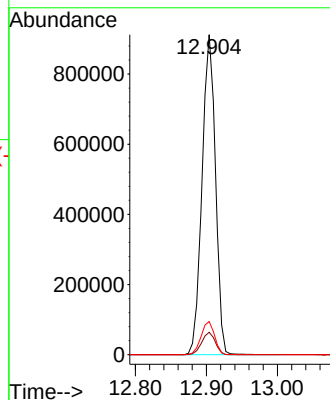
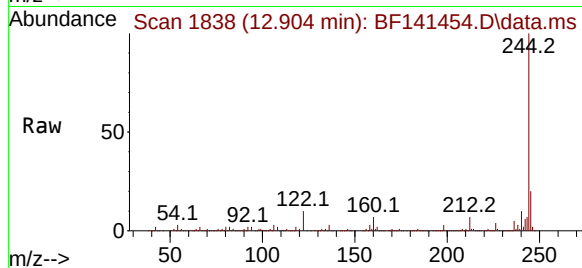
Tgt Ion:244 Resp: 1202582

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

122 10.4 8.8 13.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.421 min Scan# 2266

Delta R.T. -0.018 min

Lab File: BF141454.D

Acq: 05 Feb 2025 18:27

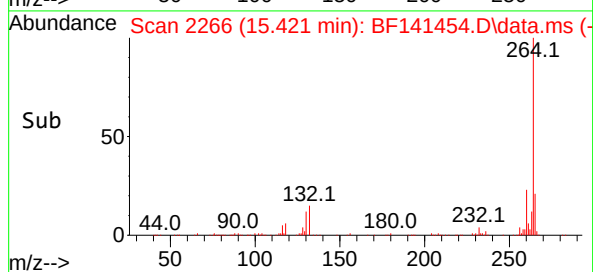
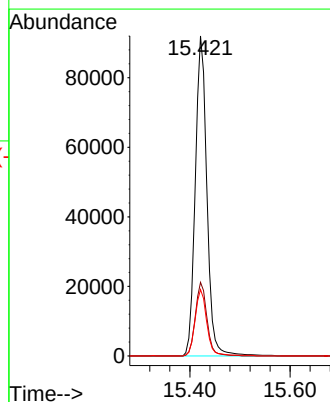
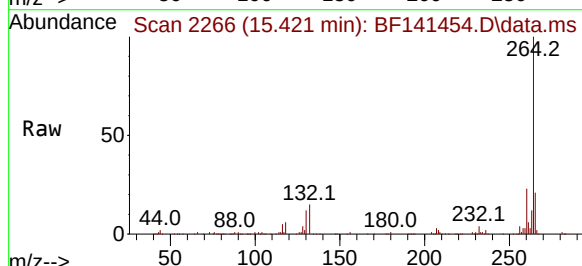
Tgt Ion:264 Resp: 147857

Ion Ratio Lower Upper

264 100

260 23.0 18.6 27.8

265 20.8 16.7 25.1





CALIBRATION SUMMARY

- 1
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Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF012925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 29 17:41:25 2025
Response Via : Initial Calibration

Calibration Files

2.5 =BF141290.D 5 =BF141291.D 10 =BF141292.D 20 =BF141293.D 40 =BF141294.D 50 =BF141295.D 60 =BF141296.D 80 =BF141297.D

Compound		2.5	5	10	20	40	50	60	80	Avg	%RSD

1) I	1,4-Dichlorobenzen...	-----ISTD-----									
2)	1,4-Dioxane	0.600	0.603	0.597	0.538	0.574	0.569	0.530	0.573	5.19	
3)	Pyridine	1.364	1.410	1.450	1.320	1.394	1.404	1.322	1.380	3.46	
4)	n-Nitrosodimet...	0.770	0.789	0.824	0.751	0.803	0.813	0.771	0.789	3.32	
5) S	2-Fluorophenol	1.428	1.391	1.402	1.201	1.267	1.268	1.163	1.303	8.03	
6)	Aniline	1.480	1.511	1.542	1.359	1.404	1.350	1.174	1.403	8.93	
7) S	Phenol-d6	1.841	1.800	1.743	1.520	1.611	1.611	1.475	1.657	8.47	
8)	2-Chlorophenol	1.535	1.510	1.487	1.297	1.353	1.355	1.237	1.396	8.24	
9)	Benzaldehyde	1.166	1.130	1.104	0.895	0.861	0.837	0.727	0.960	17.81	
10) C	Phenol	1.938	1.879	1.884	1.643	1.696	1.704	1.554	1.757	8.22	
11)	bis(2-Chloroet...	1.478	1.413	1.426	1.232	1.299	1.329	1.253	1.347	6.93	
12)	1,3-Dichlorobe...	1.697	1.668	1.648	1.429	1.499	1.474	1.362	1.540	8.49	
13) C	1,4-Dichlorobe...	1.719	1.663	1.659	1.432	1.502	1.487	1.365	1.547	8.66	
14)	1,2-Dichlorobe...	1.629	1.609	1.565	1.338	1.392	1.366	1.240	1.448	10.46	
15)	Benzyl Alcohol	1.138	1.201	1.216	1.082	1.137	1.125	1.028	1.133	5.72	
16)	2,2'-oxybis(1-...	2.533	2.484	2.495	2.189	2.296	2.287	2.112	2.342	7.01	
17)	2-Methylphenol	1.237	1.175	1.210	1.042	1.107	1.120	1.053	1.135	6.62	
18)	Hexachloroethane	0.609	0.612	0.610	0.530	0.560	0.561	0.513	0.571	7.09	
19) P	n-Nitroso-di-n...	1.084	1.052	1.060	1.032	0.895	0.936	0.945	0.874	0.985	8.27
20)	3+4-Methylphenols	1.561	1.564	1.502	1.287	1.331	1.323	1.186	1.393	10.65	
21) I	Naphthalene-d8	-----ISTD-----									
22)	Acetophenone	0.547	0.523	0.517	0.436	0.449	0.443	0.412	0.475	11.06	
23) S	Nitrobenzene-d5	0.405	0.396	0.406	0.354	0.373	0.373	0.349	0.379	6.14	
24)	Nitrobenzene	0.418	0.411	0.420	0.371	0.385	0.389	0.358	0.393	6.14	
25)	Isophorone	0.698	0.685	0.694	0.611	0.640	0.648	0.615	0.656	5.62	
26) C	2-Nitrophenol	0.176	0.187	0.199	0.177	0.189	0.191	0.179	0.185	4.66	
27)	2,4-Dimethylph...	0.244	0.239	0.249	0.224	0.235	0.238	0.223	0.236	4.12	
28)	bis(2-Chloroet...	0.454	0.440	0.445	0.389	0.405	0.411	0.384	0.418	6.70	
29) C	2,4-Dichloroph...	0.307	0.300	0.312	0.271	0.284	0.286	0.262	0.289	6.39	
30)	1,2,4-Trichlor...	0.372	0.354	0.354	0.304	0.318	0.316	0.292	0.330	9.11	
31)	Naphthalene	1.193	1.145	1.140	0.976	1.020	1.002	0.919	1.057	9.72	
32)	Benzoic acid	0.140	0.178	0.238	0.221	0.241	0.259	0.242	0.217	19.59	
33)	4-Chloroaniline	0.382	0.378	0.391	0.338	0.351	0.349	0.318	0.358	7.38	
34) C	Hexachlorobuta...	0.209	0.207	0.209	0.179	0.190	0.187	0.174	0.194	7.52	
35)	Caprolactam	0.097	0.095	0.102	0.089	0.094	0.096	0.089	0.094	4.89	
36) C	4-Chloro-3-met...	0.328	0.328	0.334	0.287	0.301	0.307	0.283	0.310	6.71	
37)	2-Methylnaphth...	0.755	0.732	0.724	0.624	0.643	0.639	0.583	0.672	9.68	
38)	1-Methylnaphth...	0.757	0.723	0.711	0.606	0.625	0.623	0.573	0.660	10.56	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
 Method File : 8270-BF012925.M

39) I	Acenaphthene-d10	-----ISTD-----									
40)	1,2,4,5-Tetrac...	0.615	0.613	0.603	0.534	0.555	0.551	0.512	0.569	7.25	
41) P	Hexachlorocycl...	0.136	0.157	0.174	0.172	0.182	0.181	0.174	0.168	9.69	
42) S	2,4,6-Tribromo...	0.198	0.198	0.198	0.173	0.175	0.179	0.163	0.183	7.98	
43) C	2,4,6-Trichlor...	0.381	0.380	0.390	0.364	0.375	0.369	0.347	0.372	3.79	
44)	2,4,5-Trichlor...	0.429	0.425	0.429	0.377	0.391	0.403	0.383	0.405	5.50	
45) S	2-Fluorobiphenyl	1.597	1.464	1.398	1.184	1.202	1.168	1.083	1.299	14.48	
46)	1,1'-Biphenyl	1.810	1.692	1.650	1.454	1.492	1.460	1.360	1.560	10.27	
47)	2-Chloronaphth...	1.396	1.310	1.290	1.122	1.159	1.156	1.077	1.216	9.59	
48)	2-Nitroaniline	0.386	0.389	0.407	0.364	0.382	0.385	0.364	0.382	3.91	
49)	Acenaphthylene	1.921	1.854	1.815	1.595	1.620	1.612	1.495	1.702	9.38	
50)	Dimethylphthalate	1.498	1.456	1.445	1.239	1.299	1.296	1.223	1.351	8.34	
51)	2,6-Dinitrotol...	0.333	0.331	0.333	0.296	0.304	0.309	0.290	0.314	5.90	
52) C	Acenaphthene	1.361	1.300	1.291	1.128	1.170	1.180	1.079	1.216	8.46	
53)	3-Nitroaniline	0.321	0.330	0.341	0.303	0.293	0.298	0.264	0.307	8.44	
54) P	2,4-Dinitrophenol		0.102	0.136	0.147	0.156	0.169	0.164	0.146	16.81	
55)	Dibenzofuran	1.869	1.788	1.755	1.518	1.525	1.539	1.398	1.627	10.72	
56) P	4-Nitrophenol	0.187	0.215	0.251	0.224	0.231	0.244	0.222	0.225	9.21	
57)	2,4-Dinitrotol...	0.424	0.431	0.443	0.386	0.392	0.404	0.362	0.406	7.03	
58)	Fluorene	1.512	1.410	1.353	1.167	1.164	1.172	1.059	1.262	12.96	
59)	2,3,4,6-Tetrac...	0.325	0.343	0.341	0.304	0.305	0.324	0.291	0.319	6.11	
60)	Diethylphthalate	1.470	1.417	1.412	1.225	1.238	1.260	1.146	1.310	9.32	
61)	4-Chlorophenyl...	0.738	0.694	0.659	0.567	0.565	0.571	0.522	0.617	13.04	
62)	4-Nitroaniline	0.297	0.312	0.330	0.290	0.294	0.311	0.281	0.302	5.45	
63)	Azobenzene	1.464	1.411	1.390	1.224	1.249	1.276	1.162	1.311	8.51	
64) I	Phenanthrene-d10	-----ISTD-----									
65)	4,6-Dinitro-2-...	0.080	0.105	0.122	0.125	0.131	0.134	0.131	0.118	16.29	
66) c	n-Nitrosodiphe...	0.716	0.684	0.674	0.626	0.622	0.614	0.593	0.647	6.89	
67)	4-Bromophenyl-...	0.235	0.234	0.234	0.217	0.218	0.220	0.210	0.224	4.57	
68)	Hexachlorobenzene	0.257	0.250	0.248	0.229	0.229	0.232	0.217	0.238	6.07	
69)	Atrazine	0.211	0.202	0.213	0.213	0.215	0.235	0.224	0.216	4.86	
70) C	Pentachlorophenol	0.112	0.136	0.146	0.143	0.146	0.149	0.141	0.139	9.08	
71)	Phenanthrene	1.233	1.170	1.142	1.025	1.008	1.010	0.937	1.075	9.96	
72)	Anthracene	1.179	1.146	1.120	1.009	0.999	0.996	0.924	1.053	9.00	
73)	Carbazole	1.019	1.014	1.021	0.899	0.878	0.900	0.807	0.934	9.04	
74)	Di-n-butylphth...	1.244	1.239	1.245	1.086	1.051	1.081	0.978	1.132	9.65	
75) C	Fluoranthene	1.195	1.202	1.196	1.013	0.963	0.982	0.880	1.062	12.57	
76) I	Chrysene-d12	-----ISTD-----									
77)	Benzidine	0.882	0.480	0.210	0.730	0.906	0.724	0.556	0.641	38.34	
78)	Pyrene	2.178	2.063	2.002	1.754	1.870	1.898	1.674	1.920	9.14	
79) S	Terphenyl-d14	1.543	1.411	1.370	1.183	1.238	1.230	1.103	1.297	11.68	
80)	Butylbenzylpht...	0.686	0.690	0.739	0.626	0.657	0.688	0.610	0.671	6.49	
81)	Benzo(a)anthra...	1.532	1.410	1.453	1.270	1.375	1.355	1.265	1.380	6.96	
82)	3,3'-Dichlorob...	0.412	0.422	0.427	0.418	0.478	0.466	0.449	0.439	5.82	
83)	Chrysene	1.332	1.325	1.342	1.136	1.267	1.243	1.210	1.265	5.98	
84)	Bis(2-ethylhex...	0.882	0.903	0.956	0.785	0.831	0.834	0.764	0.851	7.93	
85) c	Di-n-octyl pht...	1.194	1.267	1.438	1.230	1.365	1.406	1.352	1.321	6.98	

Method Path : Z:\svoasrv\HPCHEM1\BNA_F\Methods\
Method File : 8270-BF012925.M

86) I	Perylene-d12	-----ISTD-----								
87)	Indeno(1,2,3-c...	1.217	1.268	1.337	1.257	1.348	1.322	1.287	1.291	3.67
88)	Benzo(b)fluora...	1.358	1.382	1.328	1.120	1.265	1.218	1.136	1.258	8.33
89)	Benzo(k)fluora...	1.167	1.114	1.274	1.083	1.049	1.060	1.054	1.114	7.32
90) C	Benzo(a)pyrene	1.118	1.059	1.131	1.011	1.061	1.051	1.010	1.063	4.44
91)	Dibenzo(a,h)an...	0.966	1.001	1.101	1.016	1.087	1.071	1.028	1.039	4.73
92)	Benzo(g,h,i)pe...	1.011	1.075	1.139	1.043	1.123	1.105	1.063	1.080	4.22

(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141290.D
Acq On : 29 Jan 2025 10:30
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

Quant Time: Jan 29 16:26:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

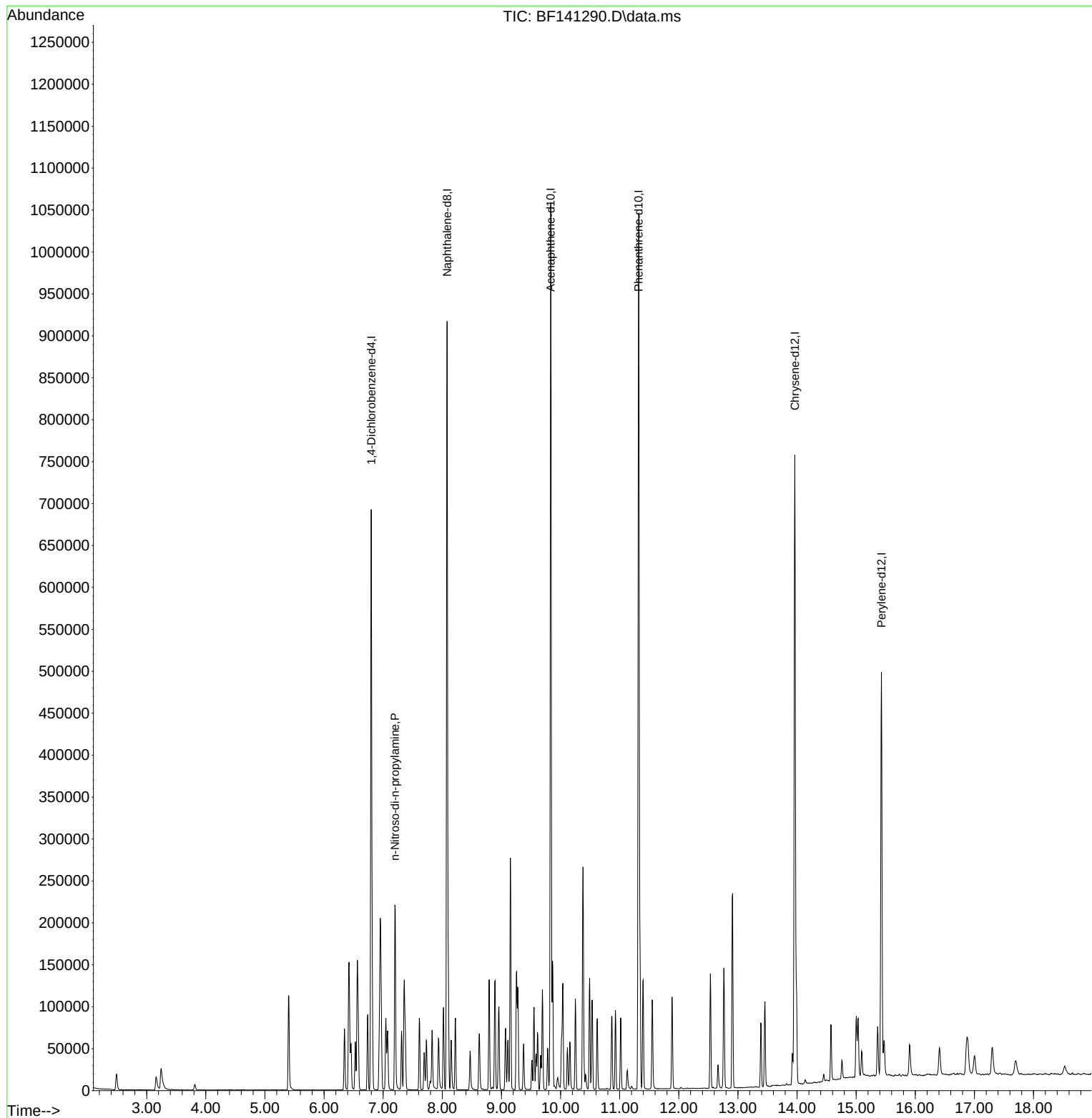
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	137039	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	552749	20.000	ng	0.00
39) Acenaphthene-d10	9.833	164	301993	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	536934	20.000	ng	0.00
76) Chrysene-d12	13.963	240	311885	20.000	ng	0.00
86) Perylene-d12	15.427	264	276754	20.000	ng	-0.01
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						
19) n-Nitroso-di-n-propyla...	7.198	70	18566	2.764	ng	Qvalue 99

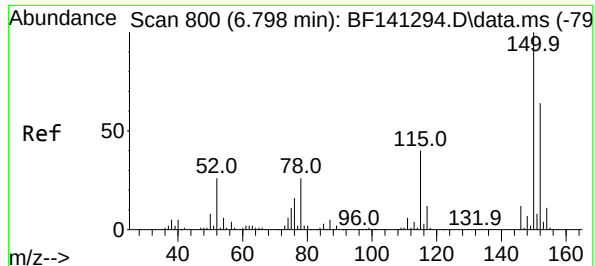
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141290.D
Acq On : 29 Jan 2025 10:30
Operator : RC/JU
Sample : SSTDICC2.5
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5

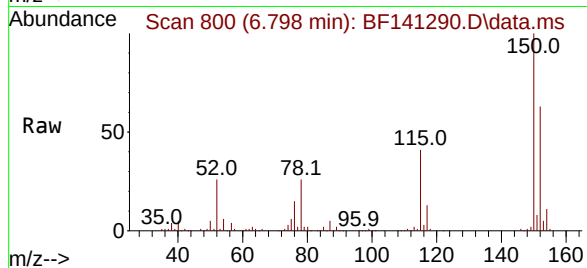
Quant Time: Jan 29 16:26:23 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration



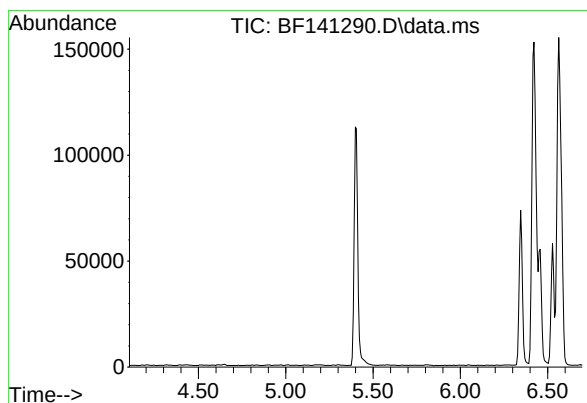
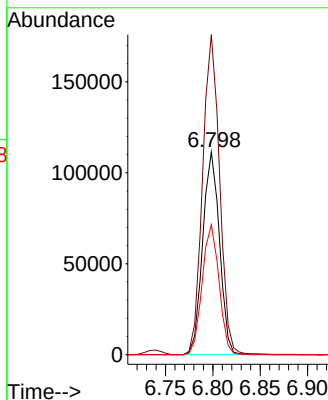
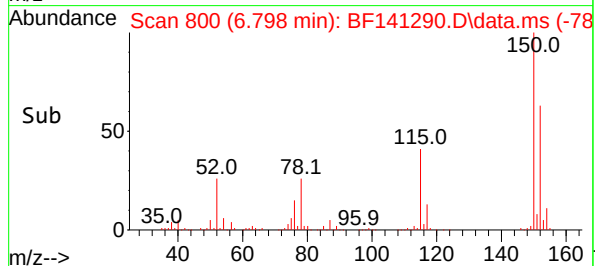


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 80
Delta R.T. 0.000 min
Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Instrument :
BNA_F
ClientSampleId :
SSTDICC2.5



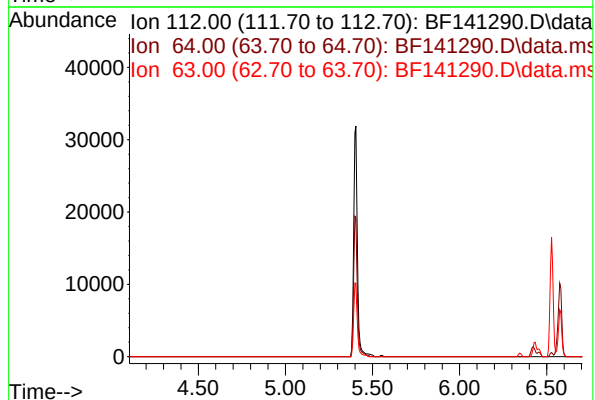
Tgt Ion:152 Resp: 137039
Ion Ratio Lower Upper
152 100
150 157.8 125.9 188.9
115 64.0 49.7 74.5

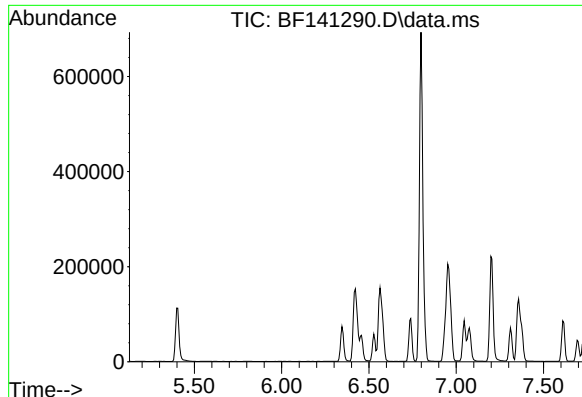


#5
2-Fluorophenol
Concen: 0.000 ng
Expected RT: 5.40 min

Lab File: BF141290.D
Acq: 29 Jan 2025 10:30

Tgt Ion: 112
Sig Exp Ratio
112 100
64 62.3
63 32.6





#7

Phenol-d6

Concen: 0.000 ng

Expected RT: 6.43 min

Lab File: BF141290.D

Acq: 29 Jan 2025 10:30

Instrument :

BNA_F

ClientSampleId :

SSTDICC2.5

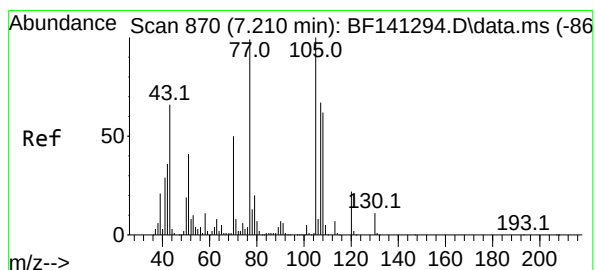
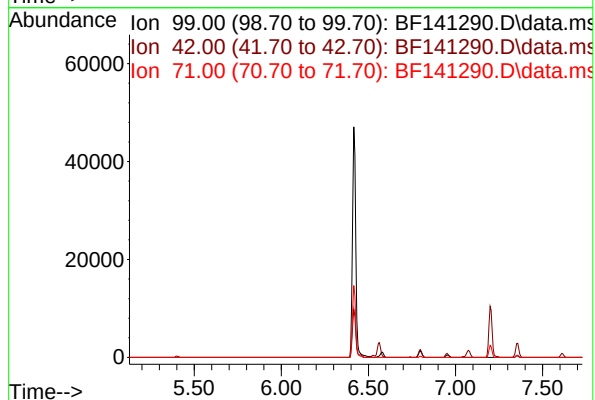
Tgt Ion: 99

Sig Exp Ratio

99 100

42 21.4

71 33.6



#19

n-Nitroso-di-n-propylamine

Concen: 2.764 ng

RT: 7.198 min Scan# 868

Delta R.T. -0.012 min

Lab File: BF141290.D

Acq: 29 Jan 2025 10:30

Tgt Ion: 70 Resp: 18566

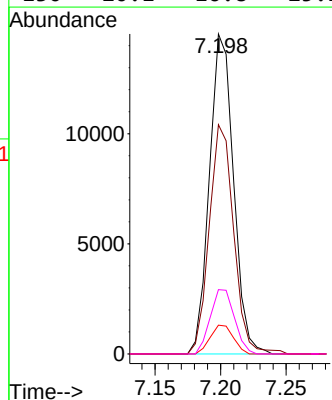
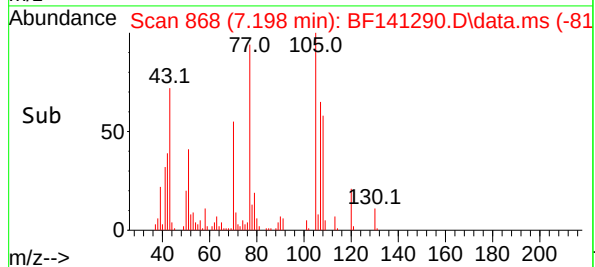
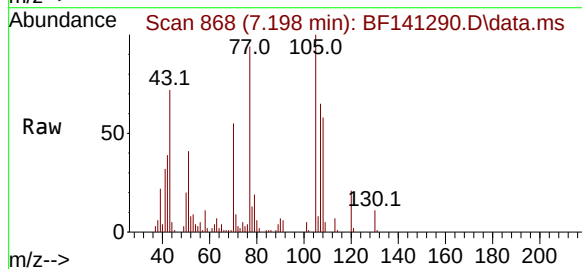
Ion Ratio Lower Upper

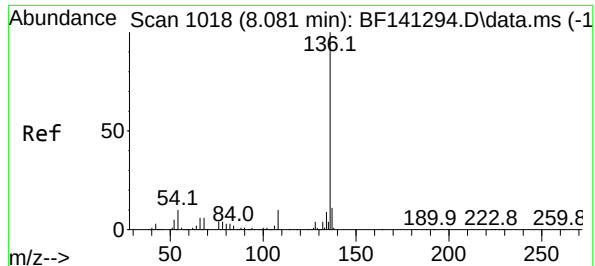
70 100

42 71.6 56.8 85.2

101 9.0 7.7 11.5

130 20.1 16.8 25.2





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.081 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF141290.D

Acq: 29 Jan 2025 10:30

Instrument :

BNA_F

ClientSampleId :

SSTDICC2.5

Tgt Ion:136 Resp: 552749

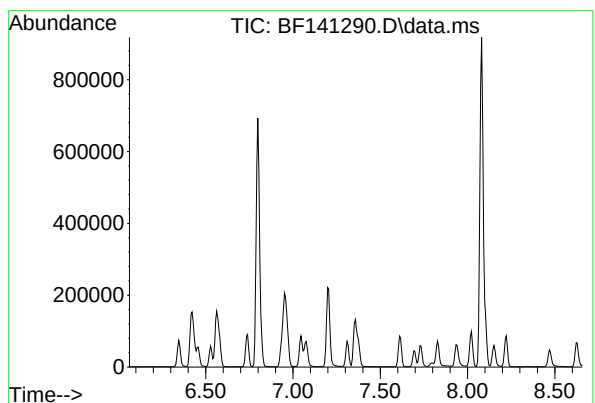
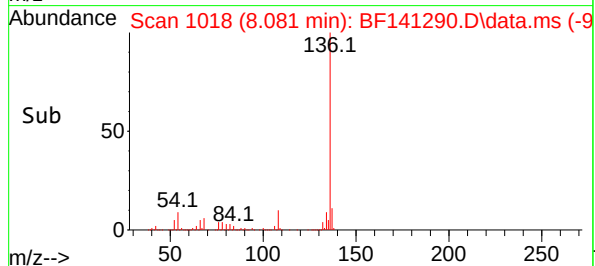
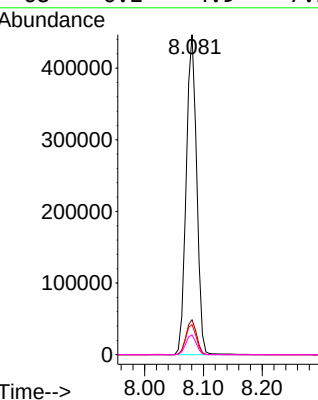
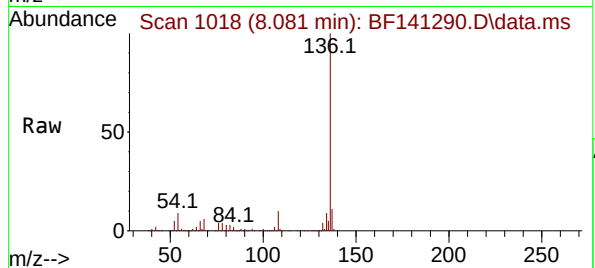
Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 9.4 7.8 11.8

68 6.2 4.9 7.3



#23

Nitrobenzene-d5

Concen: 0.000 ng

Expected RT: 7.36 min

Lab File: BF141290.D

Acq: 29 Jan 2025 10:30

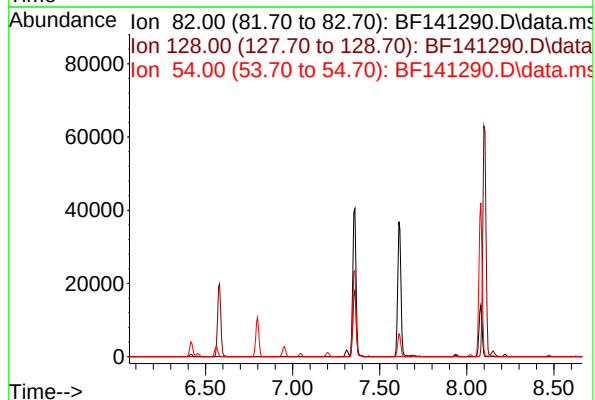
Tgt Ion: 82

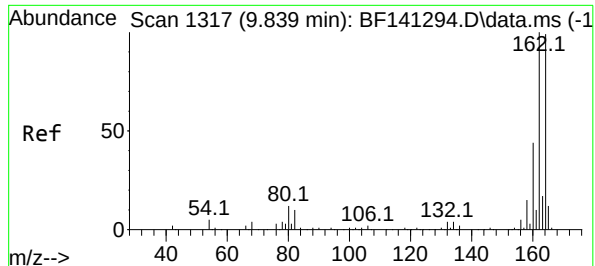
Sig Exp Ratio

82 100

128 44.6

54 58.9





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.833 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141290.D

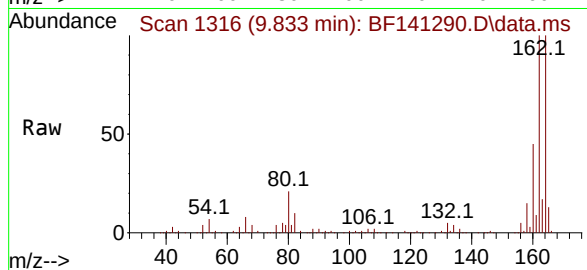
Acq: 29 Jan 2025 10:30

Instrument :

BNA_F

ClientSampleId :

SSTDICC2.5



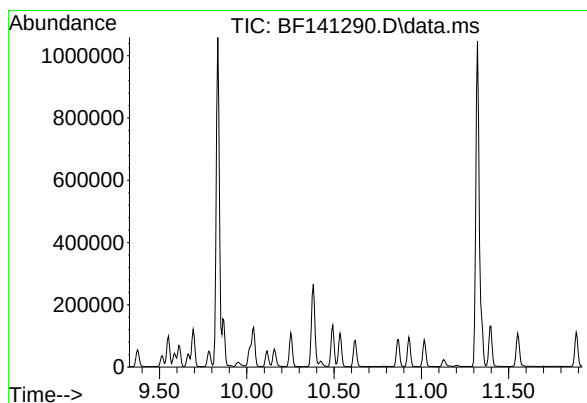
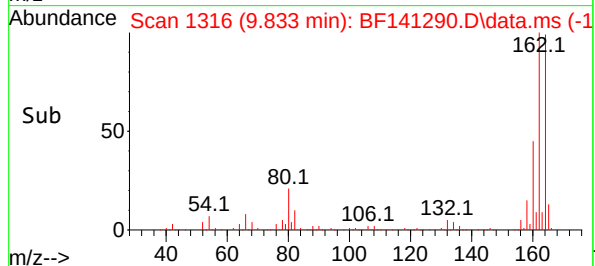
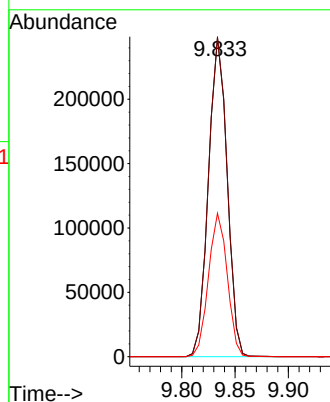
Tgt Ion:164 Resp: 301993

Ion Ratio Lower Upper

164 100

162 100.3 80.6 121.0

160 44.9 35.8 53.6



#42

2,4,6-Tribromophenol

Concen: 0.000 ng

Expected RT: 10.63 min

Lab File: BF141290.D

Acq: 29 Jan 2025 10:30

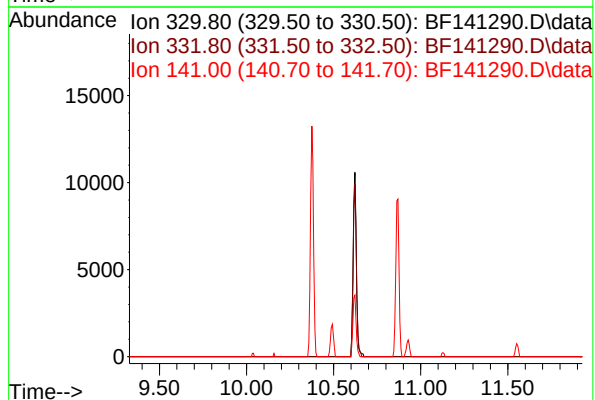
Tgt Ion: 330

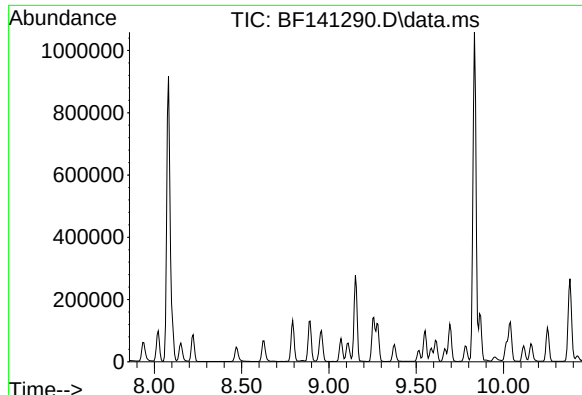
Sig Exp Ratio

330 100

332 95.1

141 36.0





#45

2-Fluorobiphenyl

Concen: 0.000 ng

Expected RT: 9.16 min

Lab File: BF141290.D

Acq: 29 Jan 2025 10:30

Instrument :

BNA_F

ClientSampleId :

SSTDICC2.5

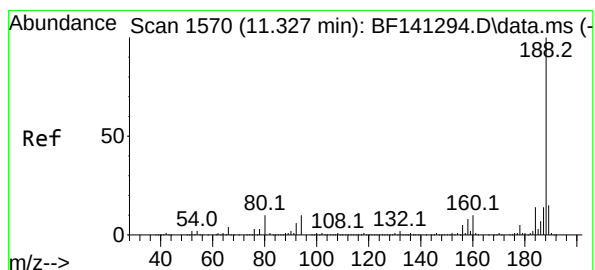
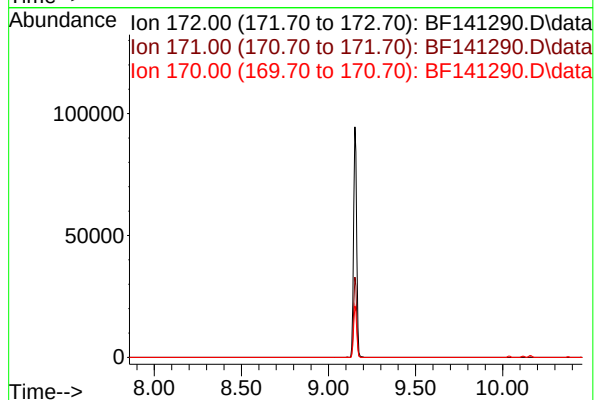
Tgt Ion: 172

Sig Exp Ratio

172 100

171 36.0

170 23.8



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.322 min Scan# 1569

Delta R.T. -0.006 min

Lab File: BF141290.D

Acq: 29 Jan 2025 10:30

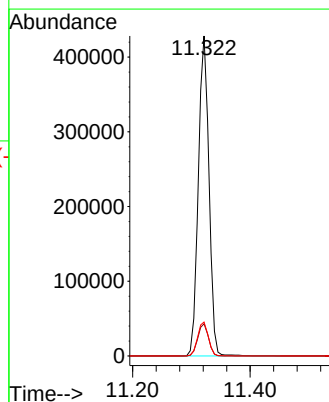
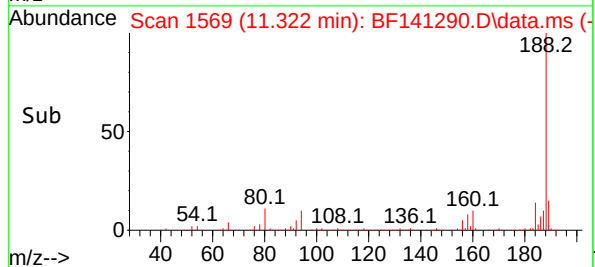
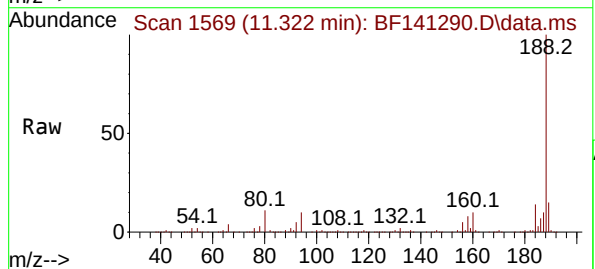
Tgt Ion: 188 Resp: 536934

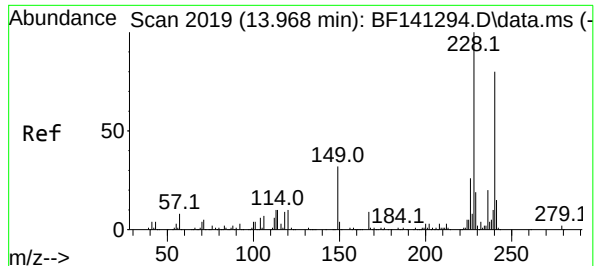
Ion Ratio Lower Upper

188 100

94 10.1 7.8 11.6

80 10.6 8.2 12.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.963 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF141290.D

Acq: 29 Jan 2025 10:30

Instrument :

BNA_F

ClientSampleId :

SSTDICC2.5

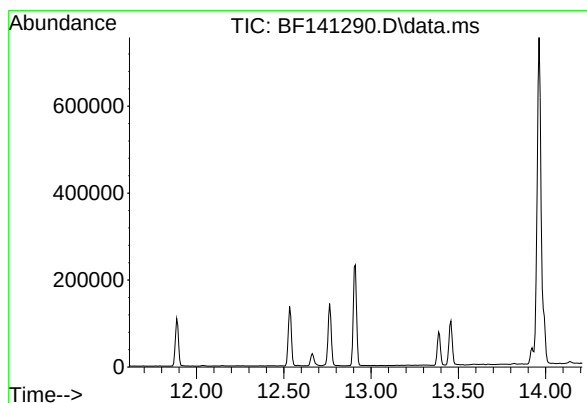
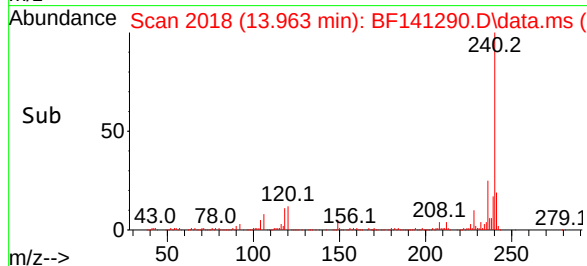
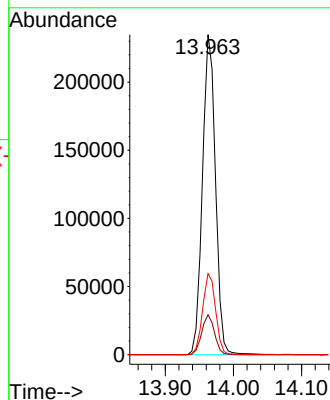
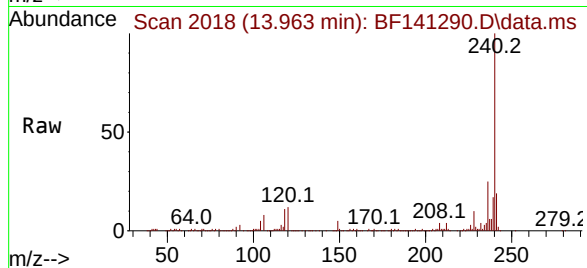
Tgt Ion:240 Resp: 311885

Ion Ratio Lower Upper

240 100

120 12.4 10.0 15.0

236 25.3 19.7 29.5



#79

Terphenyl-d14

Concen: 0.000 ng

Expected RT: 12.92 min

Lab File: BF141290.D

Acq: 29 Jan 2025 10:30

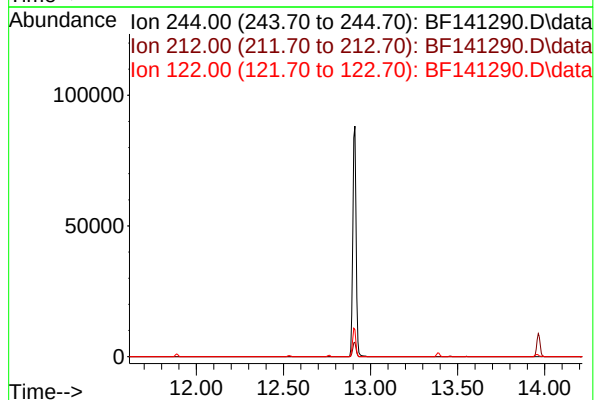
Tgt Ion: 244

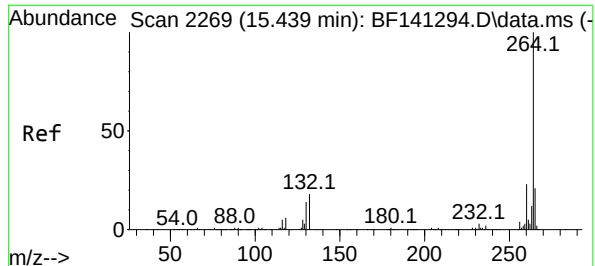
Sig Exp Ratio

244 100

212 6.7

122 11.0





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.427 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF141290.D

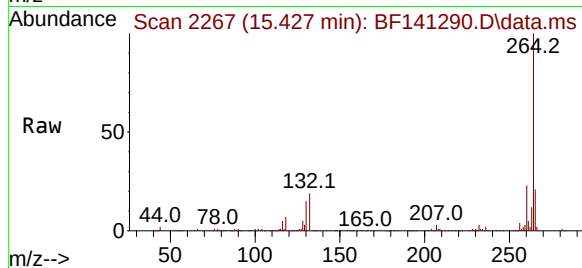
Acq: 29 Jan 2025 10:30

Instrument :

BNA_F

ClientSampleId :

SSTDICC2.5



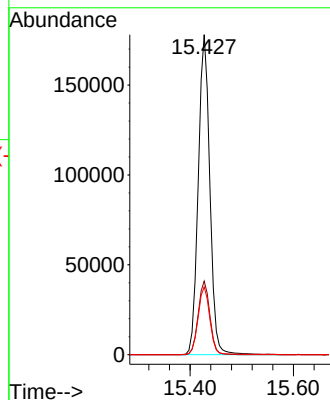
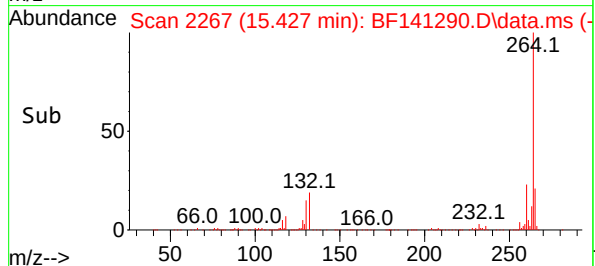
Tgt Ion:264 Resp: 276754

Ion Ratio Lower Upper

264 100

260 23.0 18.6 27.8

265 21.2 16.7 25.1



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
 Data File : BF141291.D
 Acq On : 29 Jan 2025 10:56
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Quant Time: Jan 29 16:26:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 29 16:24:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.799	152	134200	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	531551	20.000	ng	0.00
39) Acenaphthene-d10	9.834	164	281034	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	497368	20.000	ng	0.00
76) Chrysene-d12	13.963	240	288657	20.000	ng	0.00
86) Perylene-d12	15.427	264	273117	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	95839	11.044	ng	0.00
7) Phenol-d6	6.416	99	123556	11.172	ng	-0.01
23) Nitrobenzene-d5	7.357	82	107680	10.719	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	27799	10.855	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	224446	12.320	ng	0.00
79) Terphenyl-d14	12.910	244	222747	11.874	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.487	88	20141	5.229	ng	99
3) Pyridine	3.234	79	45762	4.967	ng	97
4) n-Nitrosodimethylamine	3.158	42	25819	4.894	ng	# 96
6) Aniline	6.457	93	49669	5.373	ng	99
8) 2-Chlorophenol	6.581	128	51505	5.527	ng	96
9) Benzaldehyde	6.346	77	39117	6.090	ng	97
10) Phenol	6.434	94	65035	5.558	ng	93
11) bis(2-Chloroethyl)ether	6.528	93	49579	5.510	ng	98
12) 1,3-Dichlorobenzene	6.740	146	56929	5.539	ng	99
13) 1,4-Dichlorobenzene	6.816	146	57684	5.573	ng	99
14) 1,2-Dichlorobenzene	6.969	146	54653	5.650	ng	98
15) Benzyl Alcohol	6.934	79	38176	5.053	ng	94
16) 2,2'-oxybis(1-Chloropr...	7.075	45	84988	5.436	ng	100
17) 2-Methylphenol	7.046	107	41498	5.500	ng	99
18) Hexachloroethane	7.310	117	20418	5.332	ng	95
19) n-Nitroso-di-n-propyla...	7.198	70	35278	5.363	ng	100
20) 3+4-Methylphenols	7.198	107	52364	5.645	ng	# 90
22) Acetophenone	7.204	105	72756	5.774	ng	98
24) Nitrobenzene	7.375	77	55610	5.337	ng	99
25) Isophorone	7.610	82	92818	5.346	ng	98
26) 2-Nitrophenol	7.693	139	23372	4.789	ng	97
27) 2,4-Dimethylphenol	7.728	122	32462	5.205	ng	99
28) bis(2-Chloroethoxy)met...	7.828	93	60286	5.449	ng	98
29) 2,4-Dichlorophenol	7.934	162	40847	5.360	ng	99
30) 1,2,4-Trichlorobenzene	8.022	180	49479	5.661	ng	96
31) Naphthalene	8.098	128	158560	5.672	ng	99
32) Benzoic acid	7.793	122	18585	3.281	ng	93
33) 4-Chloroaniline	8.151	127	50760	5.405	ng	97
34) Hexachlorobutadiene	8.222	225	27720	5.419	ng	99
35) Caprolactam	8.475	113	12827	5.204	ng	94
36) 4-Chloro-3-methylphenol	8.622	107	43627	5.334	ng	97
37) 2-Methylnaphthalene	8.793	142	100305	5.634	ng	98
38) 1-Methylnaphthalene	8.893	142	100569	5.767	ng	99
40) 1,2,4,5-Tetrachloroben...	8.957	216	43228	5.410	ng	97
41) Hexachlorocyclopentadiene	8.945	237	9555	3.985	ng	98
43) 2,4,6-Trichlorophenol	9.069	196	26790	5.136	ng	97

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 Acq On : 29 Jan 2025 10:56
 Operator : RC/JU
 Sample : SSTDICC005
 Misc :
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC005

Quant Time: Jan 29 16:26:46 2025
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 QLast Update : Wed Jan 29 16:24:35 2025
 Response via : Initial Calibration

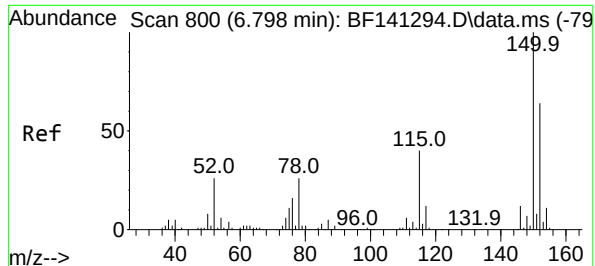
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.104	196	30127	5.309	ng	98
46) 1,1'-Biphenyl	9.257	154	127187	5.801	ng	99
47) 2-Chloronaphthalene	9.281	162	98081	5.760	ng	97
48) 2-Nitroaniline	9.375	65	27154	5.056	ng	99
49) Acenaphthylene	9.692	152	134958	5.643	ng	99
50) Dimethylphthalate	9.551	163	105240	5.584	ng	99
51) 2,6-Dinitrotoluene	9.616	165	23372	5.329	ng	95
52) Acenaphthene	9.869	154	95591	5.617	ng	100
53) 3-Nitroaniline	9.781	138	22582	5.206	ng	91
55) Dibenzofuran	10.039	168	131288	5.769	ng	98
56) 4-Nitrophenol	9.945	139	13160	4.226	ng	89
57) 2,4-Dinitrotoluene	10.016	165	29799	5.268	ng	98
58) Fluorene	10.381	166	106198	6.002	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.157	232	22818	5.090	ng	96
60) Diethylphthalate	10.251	149	103307	5.660	ng	98
61) 4-Chlorophenyl-phenyle...	10.375	204	51875	6.007	ng	98
62) 4-Nitroaniline	10.387	138	20870	5.008	ng	95
63) Azobenzene	10.534	77	102878	5.623	ng	98
65) 4,6-Dinitro-2-methylph...	10.422	198	9960	3.353	ng	92
66) n-Nitrosodiphenylamine	10.492	169	89060	5.523	ng	99
67) 4-Bromophenyl-phenylether	10.869	248	29160	5.245	ng	94
68) Hexachlorobenzene	10.928	284	31990	5.424	ng	98
69) Atrazine	11.016	200	26258	4.855	ng	97
70) Pentachlorophenol	11.128	266	13924	4.027	ng	96
71) Phenanthrene	11.345	178	153320	5.738	ng	99
72) Anthracene	11.398	178	146593	5.625	ng	99
73) Carbazole	11.551	167	126760	5.491	ng	99
74) Di-n-butylphthalate	11.886	149	154718	5.560	ng	100
75) Fluoranthene	12.533	202	148553	5.696	ng	99
77) Benzidine	12.663	184	63661	7.253	ng	98
78) Pyrene	12.763	202	157175	5.639	ng	99
80) Butylbenzylphthalate	13.386	149	49477	5.140	ng	99
81) Benzo(a)anthracene	13.951	228	110559	5.588	ng	99
82) 3,3'-Dichlorobenzidine	13.922	252	29754	4.803	ng	100
83) Chrysene	13.992	228	96099	5.238	ng	99
84) Bis(2-ethylhexyl)phtha...	13.951	149	63638	5.269	ng	98
85) Di-n-octyl phthalate	14.574	149	86163	4.560	ng	98
87) Indeno(1,2,3-cd)pyrene	16.863	276	83074	4.657	ng	99
88) Benzo(b)fluoranthene	14.998	252	92690	5.465	ng	99
89) Benzo(k)fluoranthene	15.027	252	79701	5.247	ng	99
90) Benzo(a)pyrene	15.363	252	76368	5.268	ng	99
91) Dibenzo(a,h)anthracene	16.886	278	65991	4.615	ng	99
92) Benzo(g,h,i)perylene	17.298	276	69049	4.591	ng	97

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

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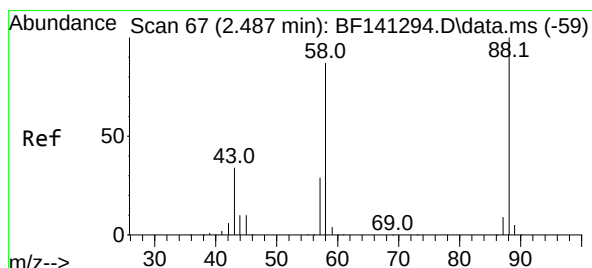
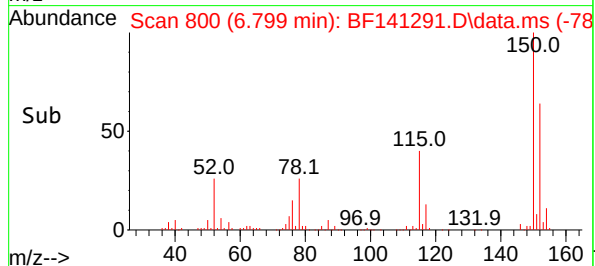
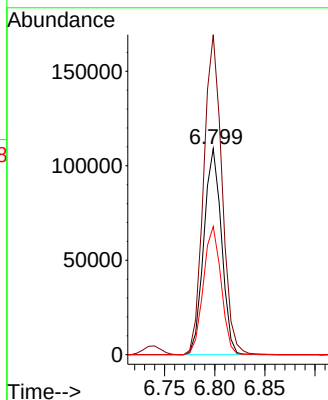
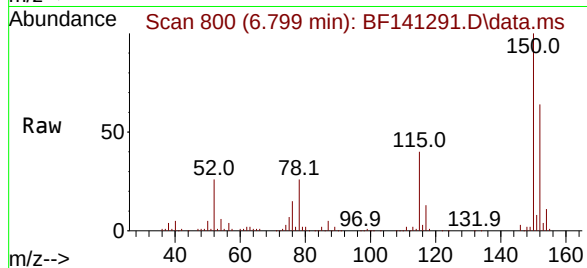




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.799 min Scan# 80
Delta R.T. 0.001 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

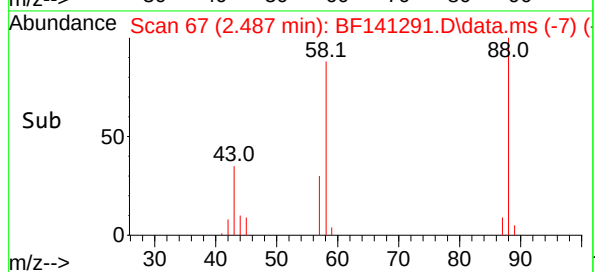
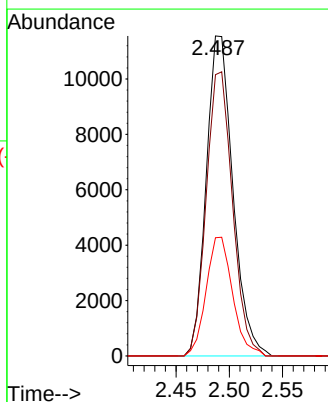
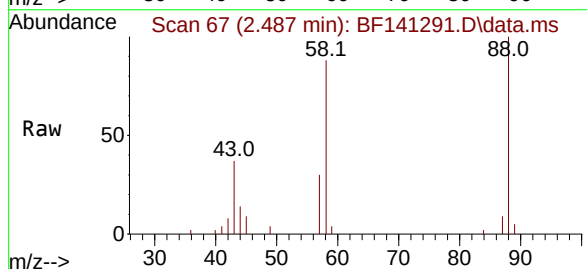
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BNA_F
ClientSampleId :
SSTDICC005

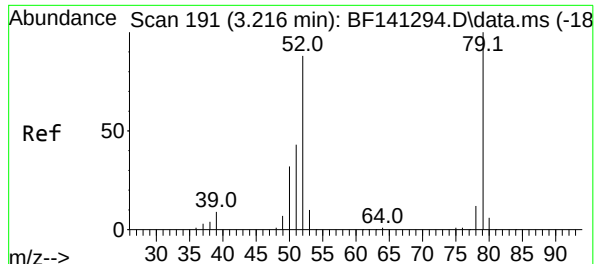
Tgt Ion:152 Resp: 134200
Ion Ratio Lower Upper
152 100
150 155.3 125.9 188.9
115 62.2 49.7 74.5



#2
1,4-Dioxane
Concen: 5.229 ng
RT: 2.487 min Scan# 67
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion: 88 Resp: 20141
Ion Ratio Lower Upper
88 100
58 87.4 70.2 105.4
43 36.8 27.6 41.4





#3

Pyridine

Concen: 4.967 ng

RT: 3.234 min Scan# 194

Delta R.T. 0.018 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

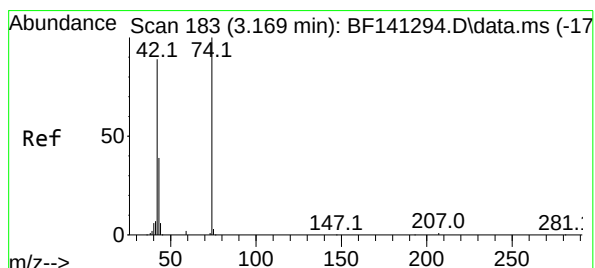
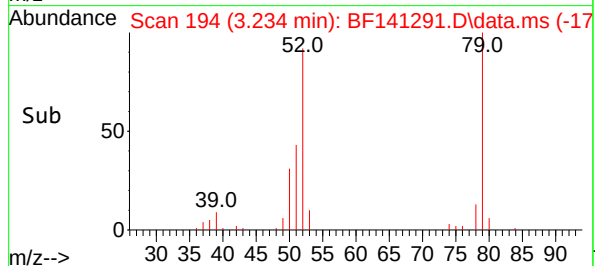
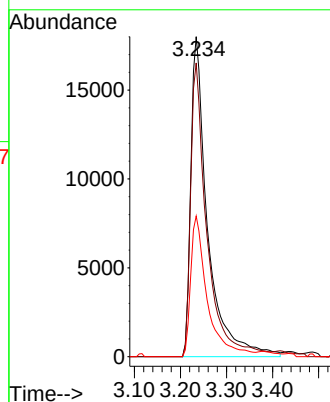
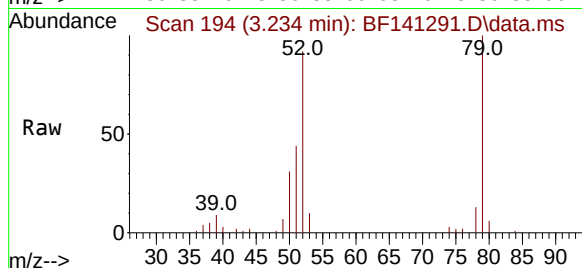
Tgt Ion: 79 Resp: 45762

Ion Ratio Lower Upper

79 100

52 91.8 70.3 105.5

51 43.9 34.3 51.5



#4

n-Nitrosodimethylamine

Concen: 4.894 ng

RT: 3.158 min Scan# 181

Delta R.T. -0.011 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

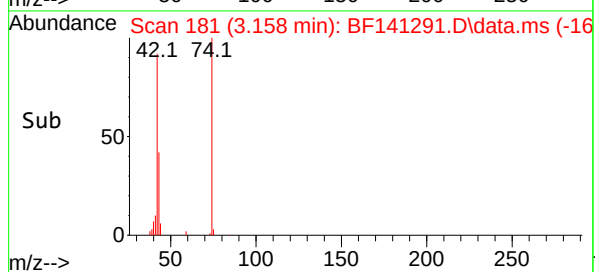
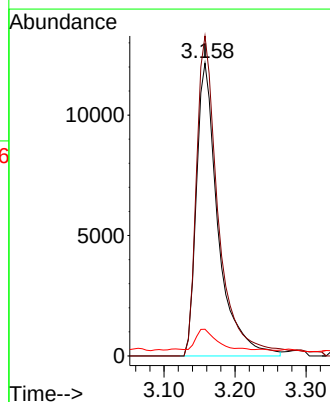
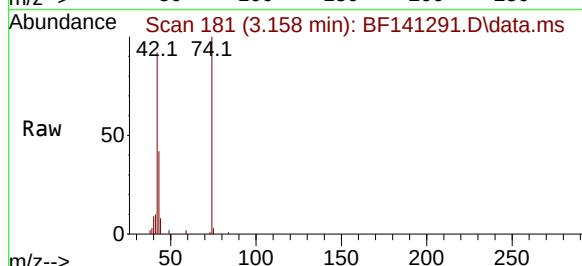
Tgt Ion: 42 Resp: 25819

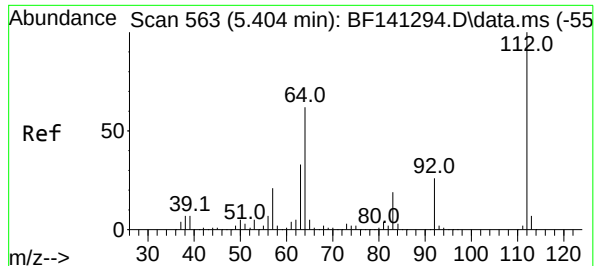
Ion Ratio Lower Upper

42 100

74 109.3 90.3 135.5

44 9.1 5.7 8.5

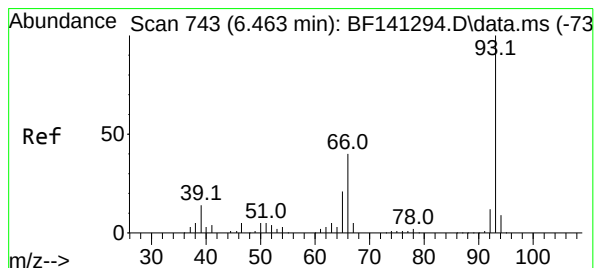
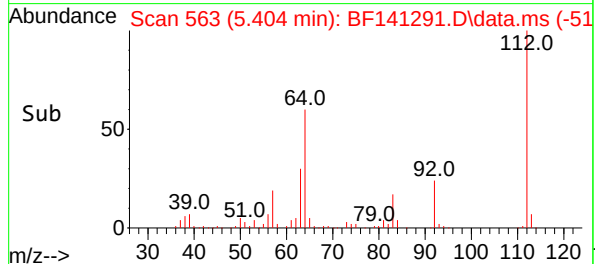
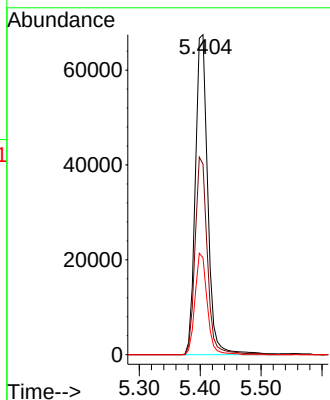
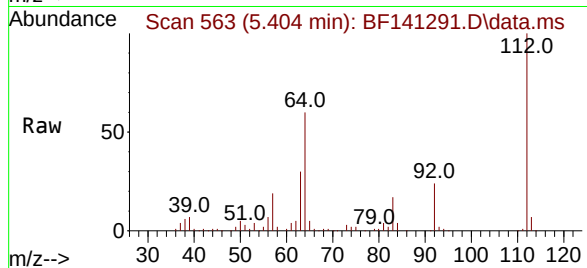




#5
2-Fluorophenol
Concen: 11.044 ng
RT: 5.404 min Scan# 50
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

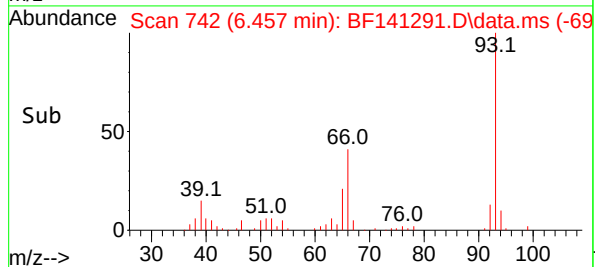
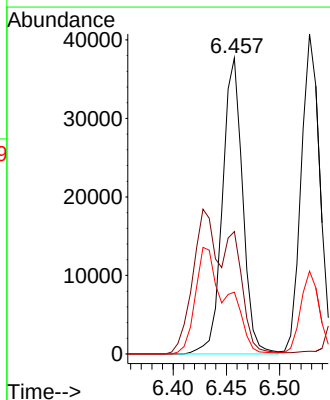
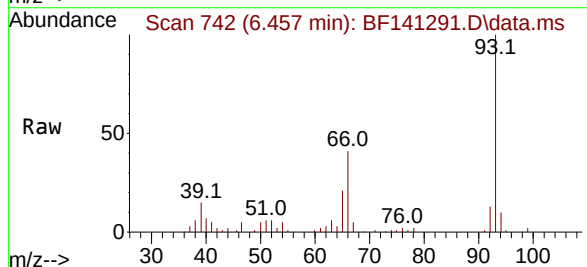
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

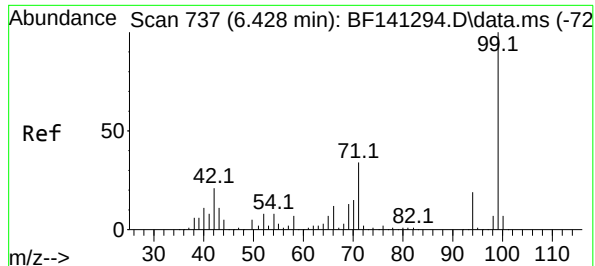
Tgt Ion:112 Resp: 95839
Ion Ratio Lower Upper
112 100
64 59.5 49.8 74.8
63 30.2 26.1 39.1



#6
Aniline
Concen: 5.373 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion: 93 Resp: 49669
Ion Ratio Lower Upper
93 100
66 41.4 32.5 48.7
65 20.9 17.0 25.6





#7

Phenol-d6

Concen: 11.172 ng

RT: 6.416 min Scan# 71

Delta R.T. -0.011 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

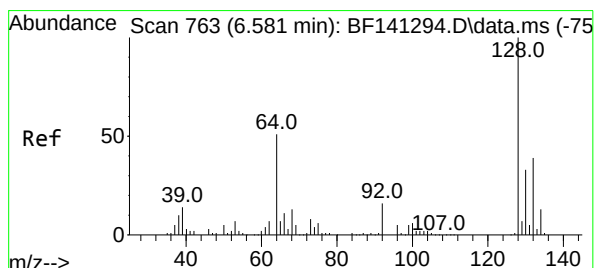
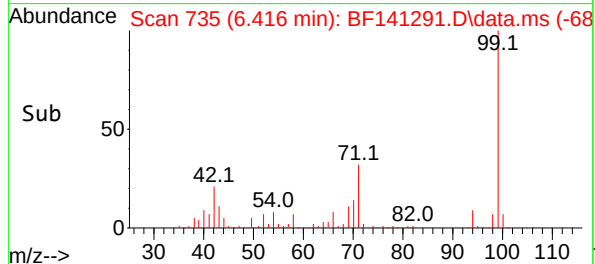
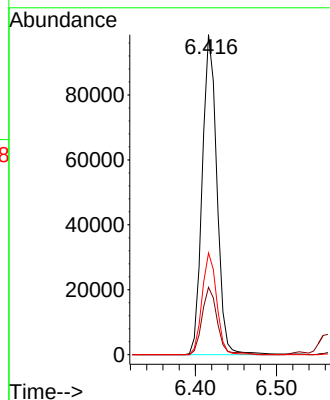
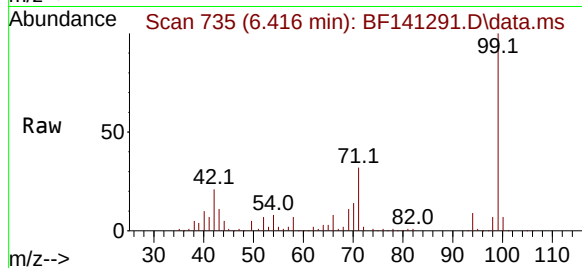
Tgt Ion: 99 Resp: 123556

Ion Ratio Lower Upper

99 100

42 21.0 17.1 25.7

71 31.8 26.9 40.3



#8

2-Chlorophenol

Concen: 5.527 ng

RT: 6.581 min Scan# 763

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

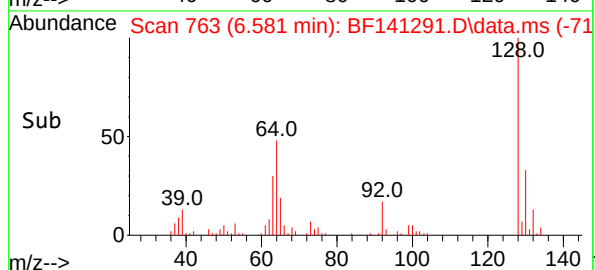
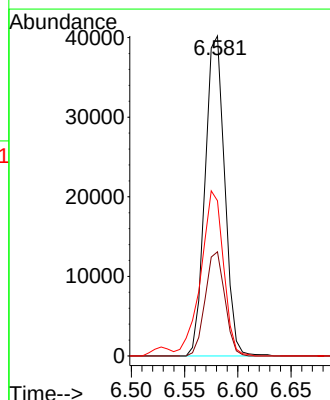
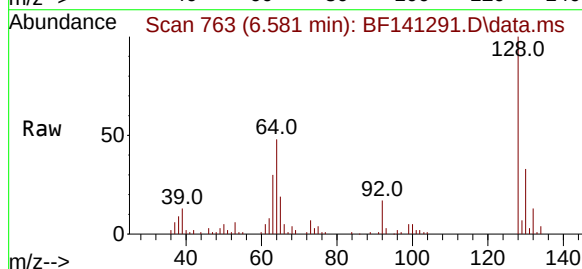
Tgt Ion: 128 Resp: 51505

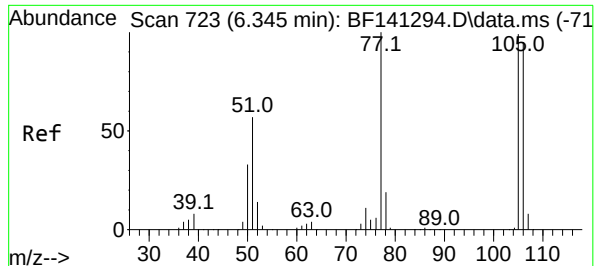
Ion Ratio Lower Upper

128 100

130 32.5 12.5 52.5

64 48.5 32.9 72.9

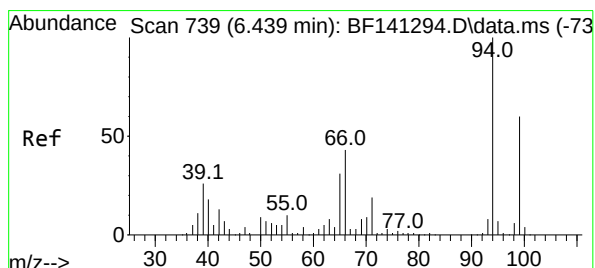
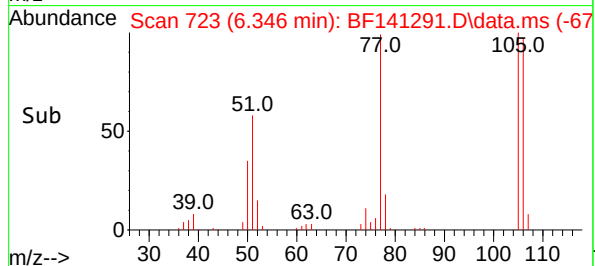
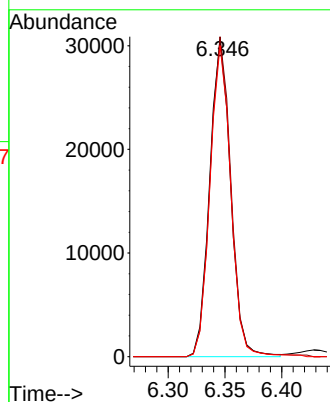
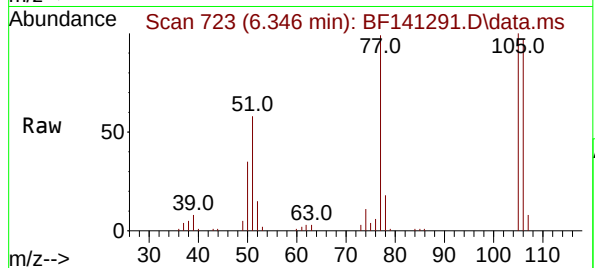




#9
Benzaldehyde
Concen: 6.090 ng
RT: 6.346 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

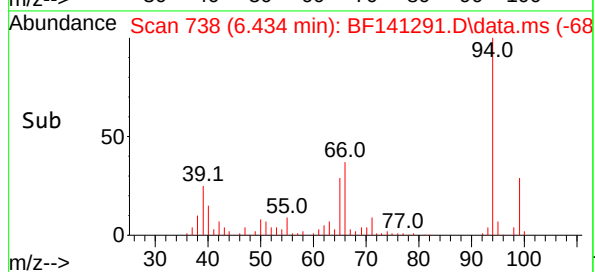
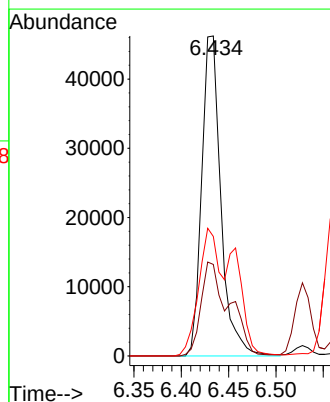
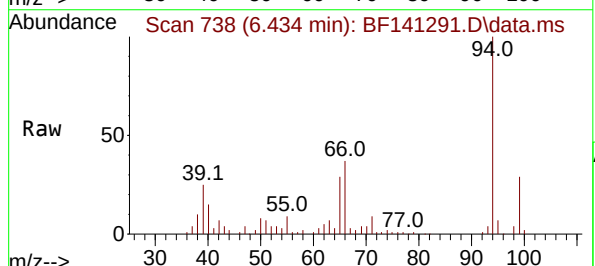
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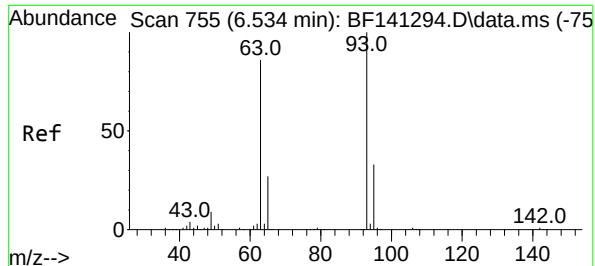
Tgt Ion: 77 Resp: 39117
Ion Ratio Lower Upper
77 100
105 100.9 79.4 119.4
106 98.1 74.6 114.6



#10
Phenol
Concen: 5.558 ng
RT: 6.434 min Scan# 738
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion: 94 Resp: 65035
Ion Ratio Lower Upper
94 100
65 28.6 10.8 50.8
66 37.4 23.3 63.3





#11

bis(2-Chloroethyl)ether

Concen: 5.510 ng

RT: 6.528 min Scan# 755

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDIC005

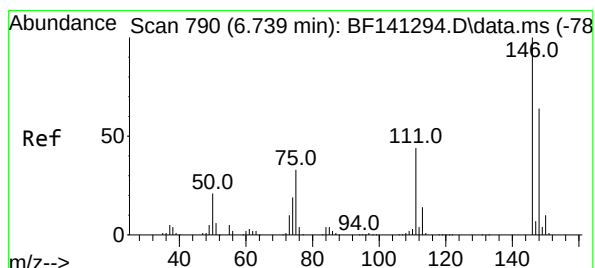
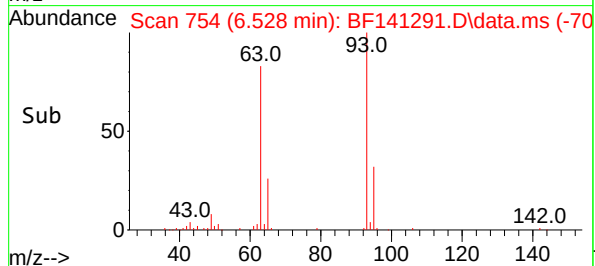
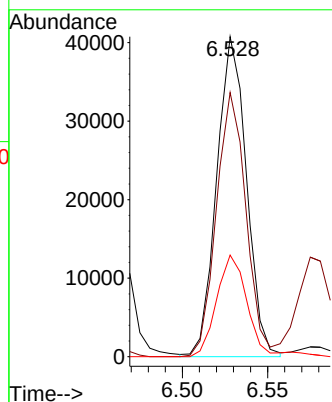
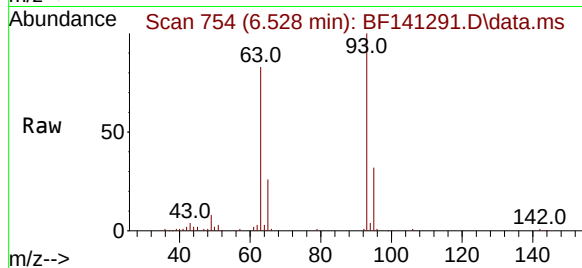
Tgt Ion: 93 Resp: 49579

Ion Ratio Lower Upper

93 100

63 82.6 65.0 105.0

95 31.7 12.4 52.4



#12

1,3-Dichlorobenzene

Concen: 5.539 ng

RT: 6.740 min Scan# 790

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

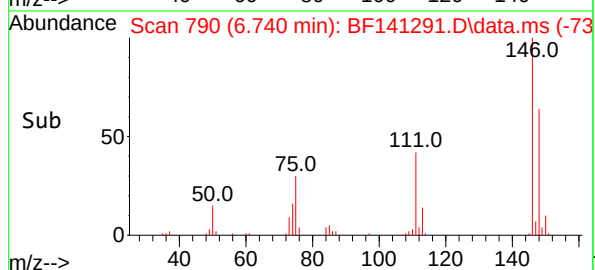
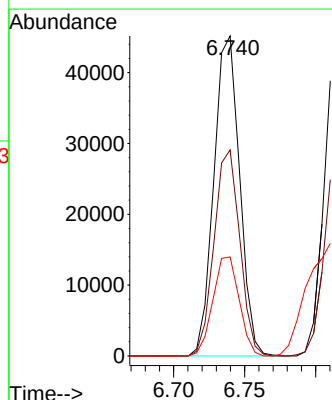
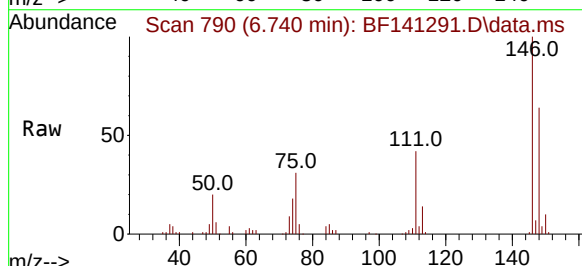
Tgt Ion: 146 Resp: 56929

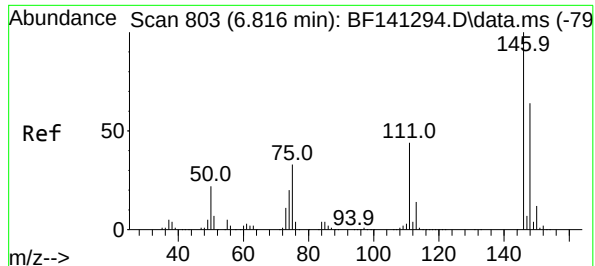
Ion Ratio Lower Upper

146 100

148 64.4 51.2 76.8

75 30.9 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 5.573 ng

RT: 6.816 min Scan# 803

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

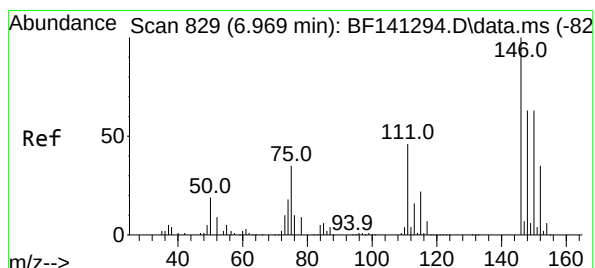
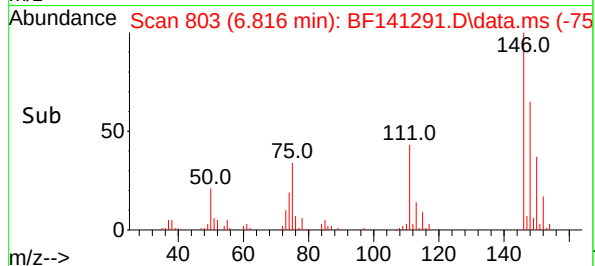
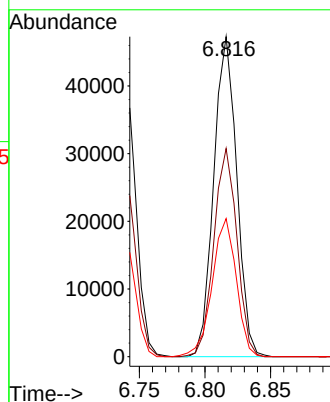
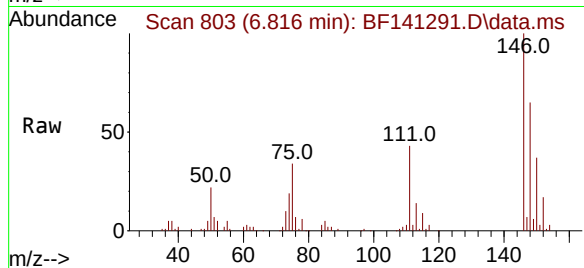
Tgt Ion:146 Resp: 57684

Ion Ratio Lower Upper

146 100

148 65.0 51.2 76.8

111 43.2 35.0 52.4



#14

1,2-Dichlorobenzene

Concen: 5.650 ng

RT: 6.969 min Scan# 829

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

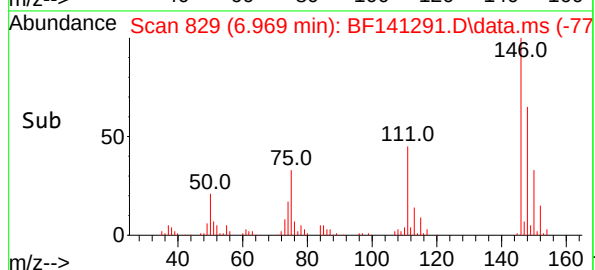
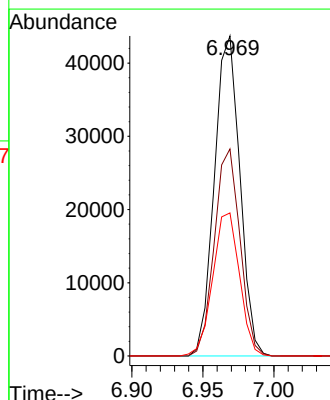
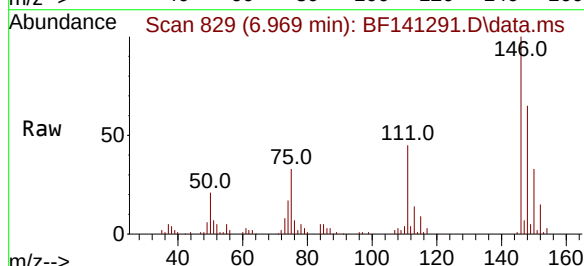
Tgt Ion:146 Resp: 54653

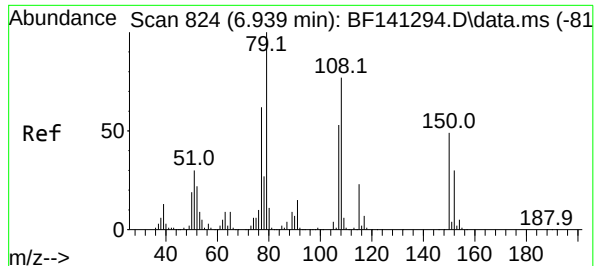
Ion Ratio Lower Upper

146 100

148 64.7 50.5 75.7

111 44.7 36.6 55.0





#15

Benzyl Alcohol

Concen: 5.053 ng

RT: 6.934 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

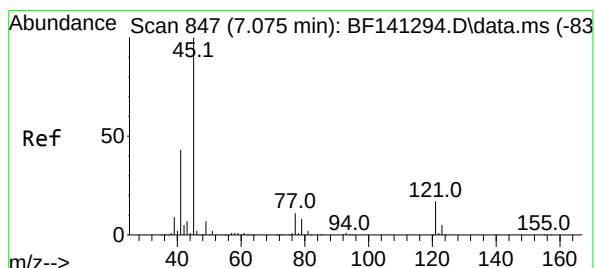
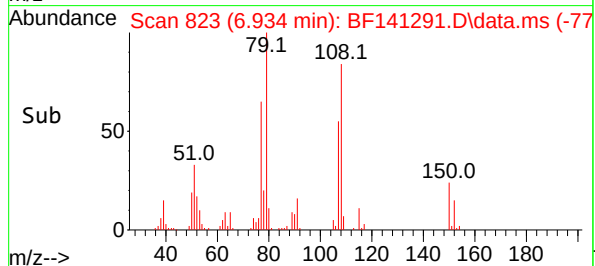
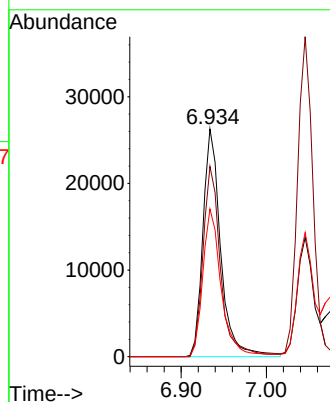
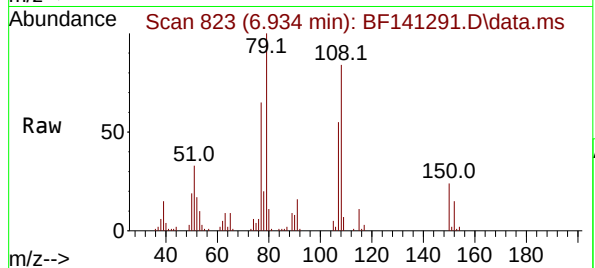
Tgt Ion: 79 Resp: 38176

Ion Ratio Lower Upper

79 100

108 83.6 61.4 92.0

77 64.8 49.9 74.9



#16

2,2'-oxybis(1-Chloropropane)

Concen: 5.436 ng

RT: 7.075 min Scan# 847

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

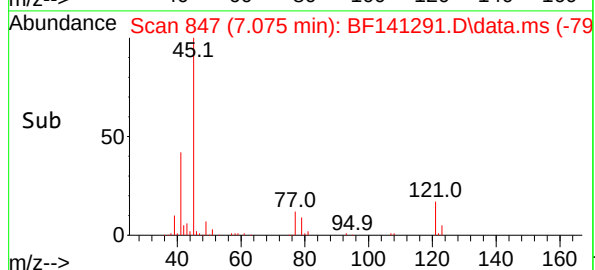
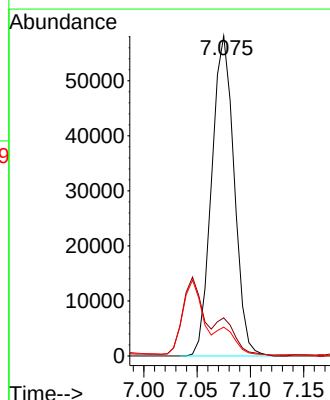
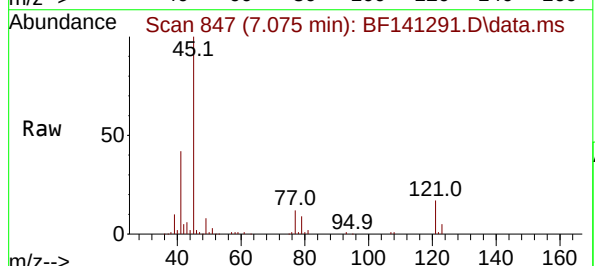
Tgt Ion: 45 Resp: 84988

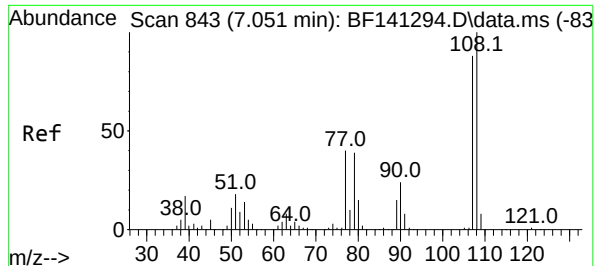
Ion Ratio Lower Upper

45 100

77 11.9 0.0 31.8

79 9.0 0.0 29.1

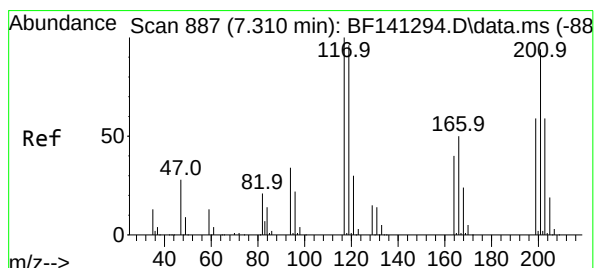
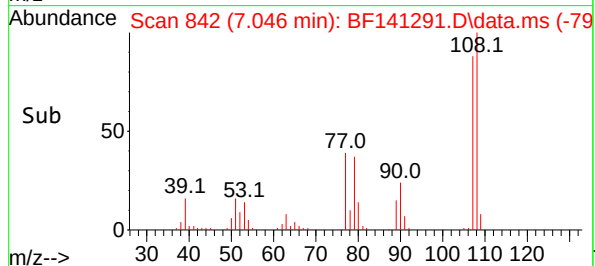
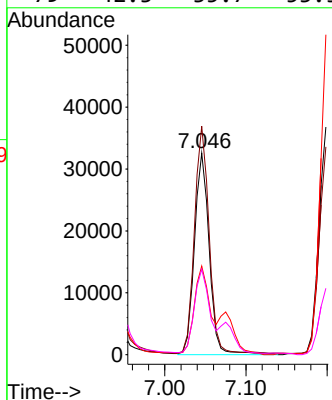
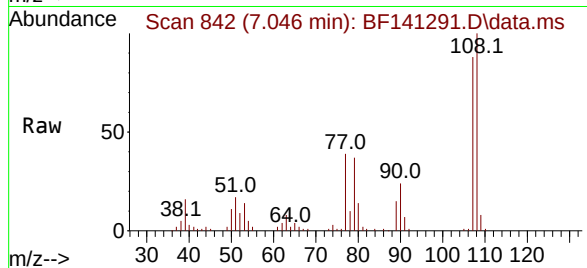




#17
2-Methylphenol
Concen: 5.500 ng
RT: 7.046 min Scan# 843
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

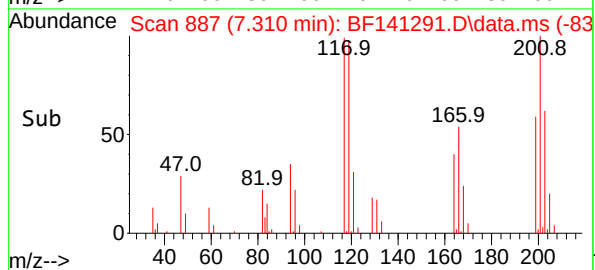
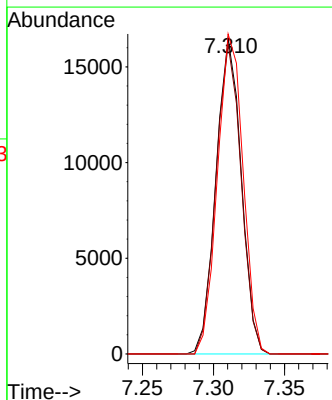
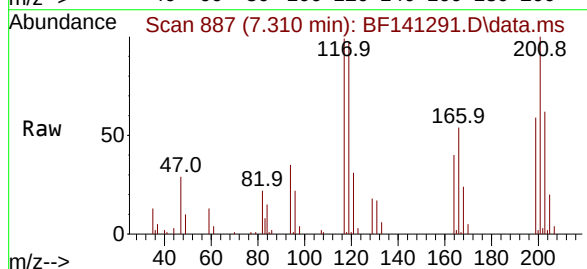
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

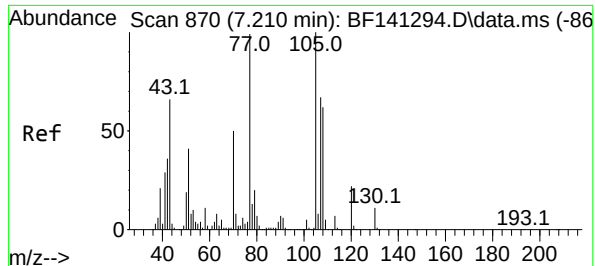
Tgt Ion:	107	Resp:	41498
Ion	Ratio	Lower	Upper
107	100		
108	113.4	90.8	136.2
77	44.0	36.2	54.4
79	42.3	35.7	53.5



#18
Hexachloroethane
Concen: 5.332 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:	117	Resp:	20418
Ion	Ratio	Lower	Upper
117	100		
119	98.1	76.6	114.8
201	101.4	74.8	112.2





#19

n-Nitroso-di-n-propylamine

Concen: 5.363 ng

RT: 7.198 min Scan# 8

Delta R.T. -0.012 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

Tgt Ion: 70 Resp: 35278

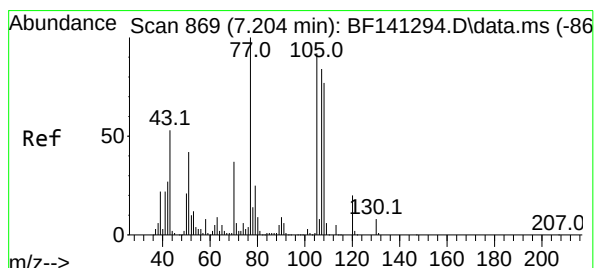
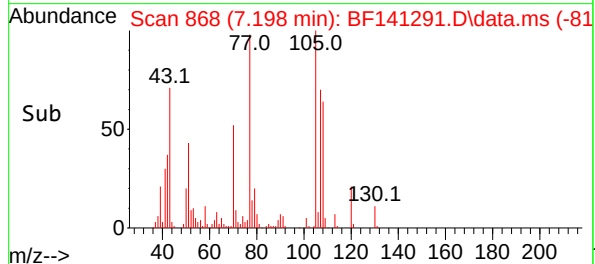
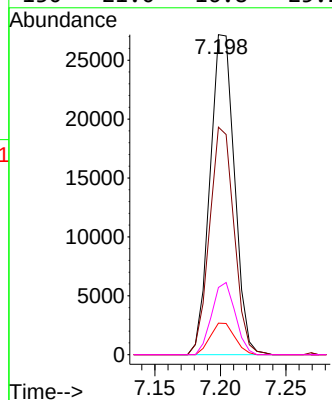
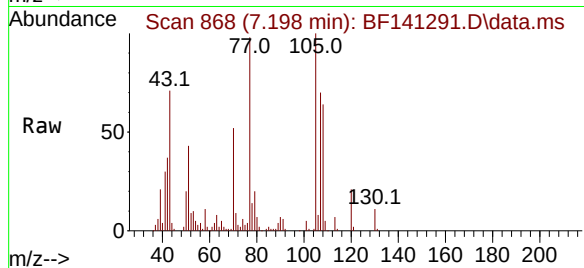
Ion Ratio Lower Upper

70 100

42 71.1 56.8 85.2

101 9.9 7.7 11.5

130 21.0 16.8 25.2



#20

3+4-Methylphenols

Concen: 5.645 ng

RT: 7.198 min Scan# 868

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Tgt Ion: 107 Resp: 52364

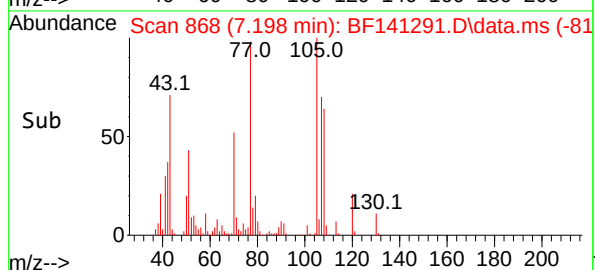
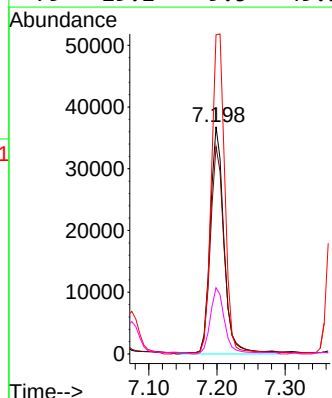
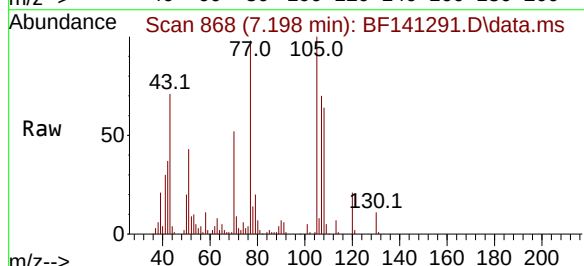
Ion Ratio Lower Upper

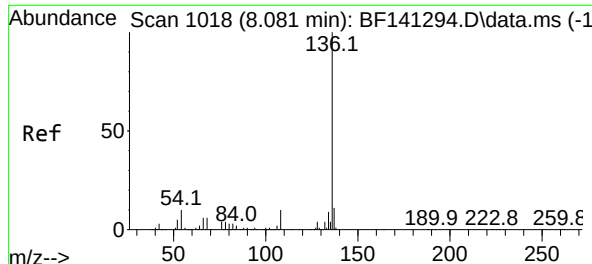
107 100

108 91.3 70.9 110.9

77 140.5 98.5 138.5#

79 29.2 9.5 49.5





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.081 min Scan# 1018

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

Tgt Ion:136 Resp: 531551

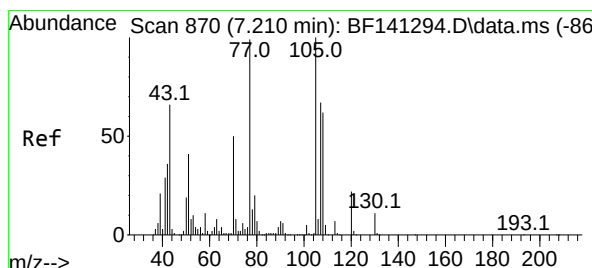
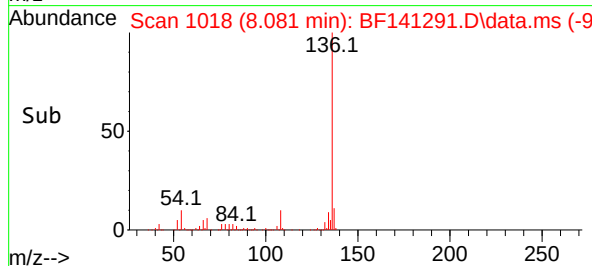
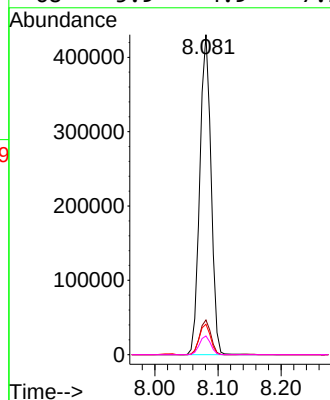
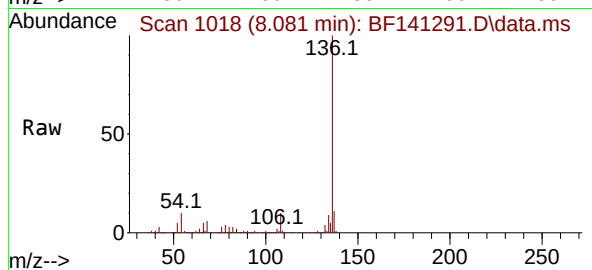
Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 9.5 7.8 11.8

68 5.9 4.9 7.3



#22

Acetophenone

Concen: 5.774 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Tgt Ion:105 Resp: 72756

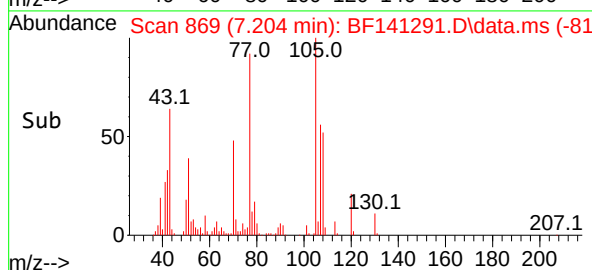
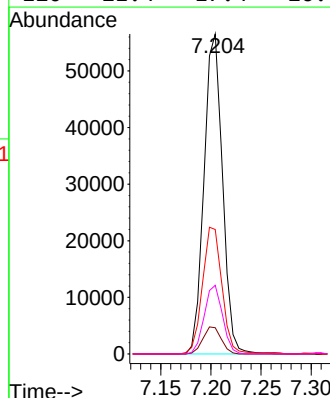
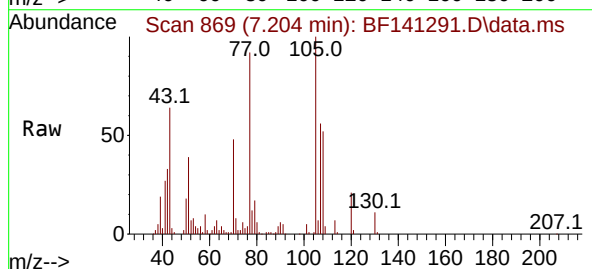
Ion Ratio Lower Upper

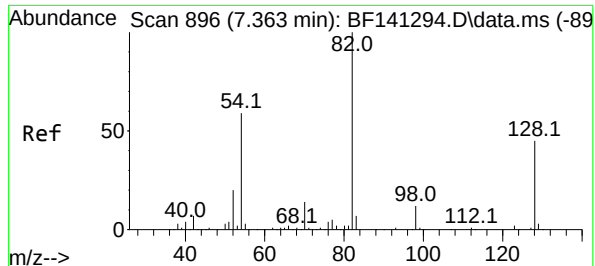
105 100

71 8.2 6.8 10.2

51 38.9 32.6 49.0

120 21.4 17.4 26.0





#23

Nitrobenzene-d5

Concen: 10.719 ng

RT: 7.357 min Scan# 895

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

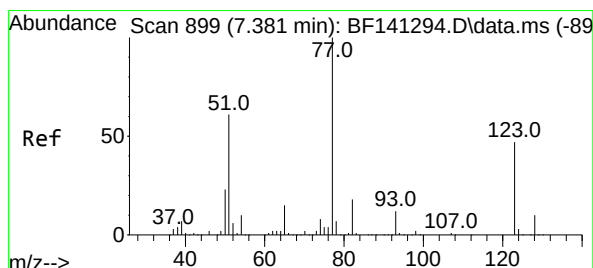
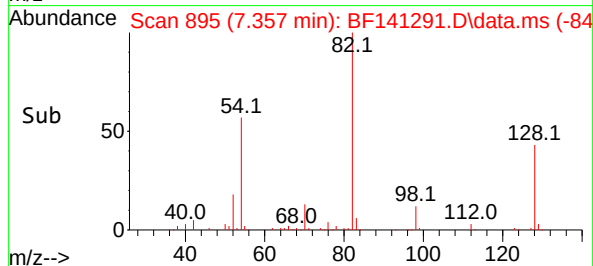
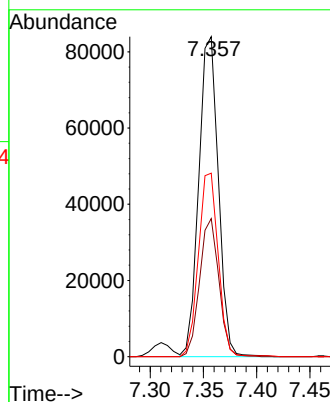
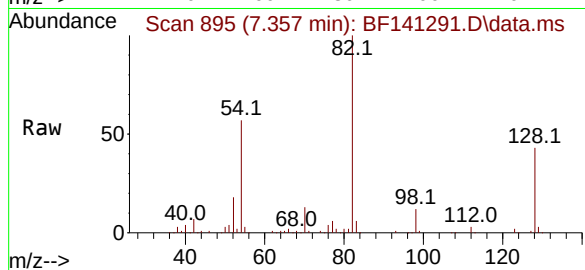
Tgt Ion: 82 Resp: 107680

Ion Ratio Lower Upper

82 100

128 43.2 35.7 53.5

54 57.4 47.1 70.7



#24

Nitrobenzene

Concen: 5.337 ng

RT: 7.375 min Scan# 898

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

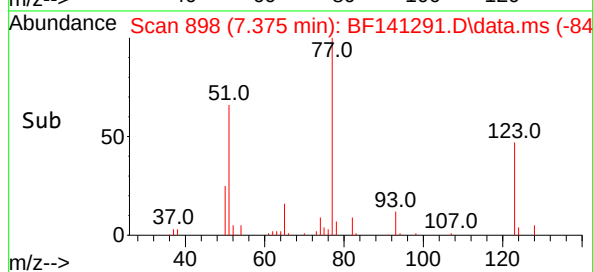
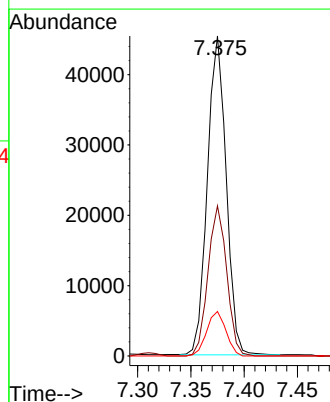
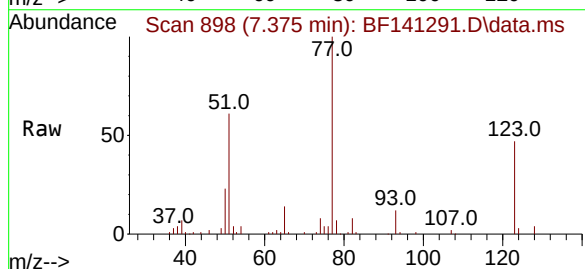
Tgt Ion: 77 Resp: 55610

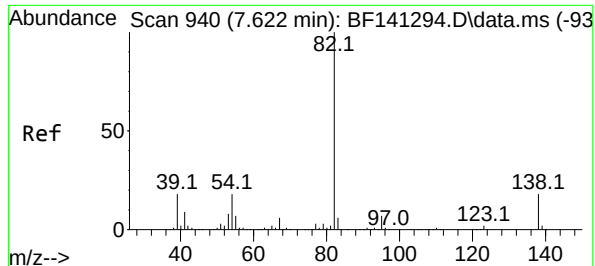
Ion Ratio Lower Upper

77 100

123 46.9 37.3 55.9

65 13.9 11.8 17.6





#25

Isophorone

Concen: 5.346 ng

RT: 7.610 min Scan# 91

Delta R.T. -0.011 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

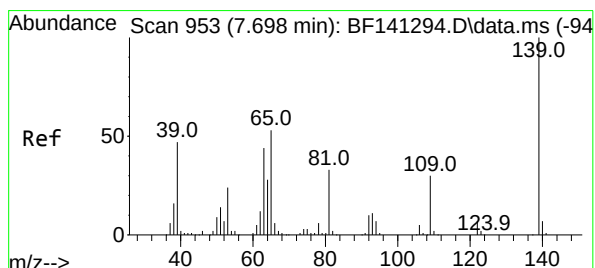
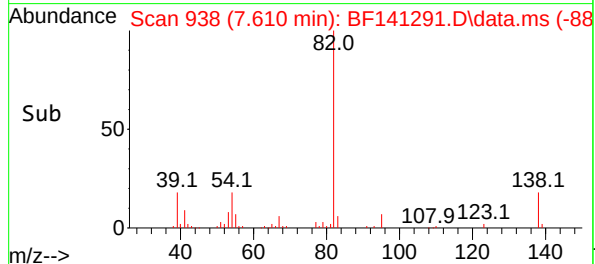
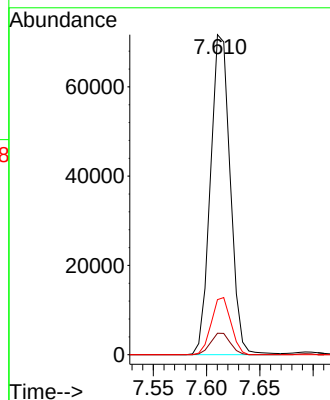
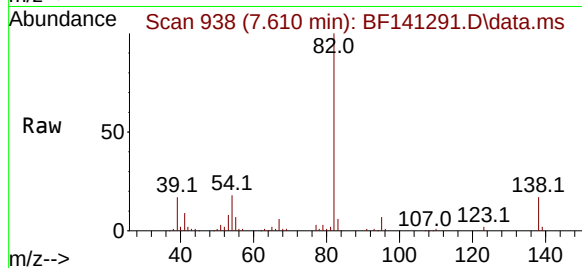
Tgt Ion: 82 Resp: 92818

Ion Ratio Lower Upper

82 100

95 6.7 5.8 8.6

138 17.2 14.7 22.1



#26

2-Nitrophenol

Concen: 4.789 ng

RT: 7.693 min Scan# 952

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

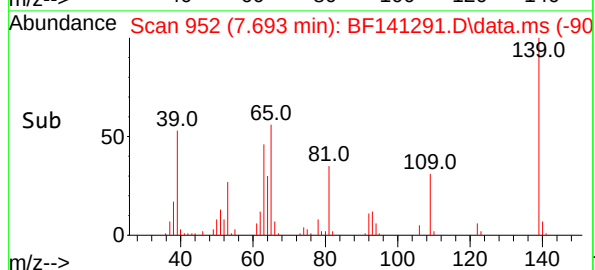
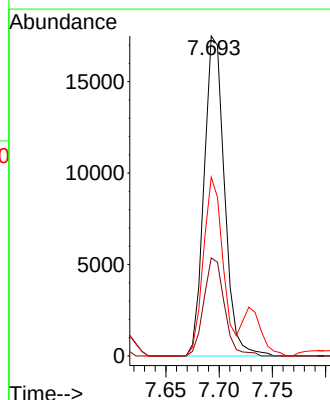
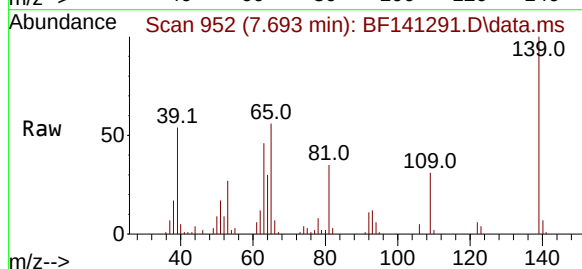
Tgt Ion: 139 Resp: 23372

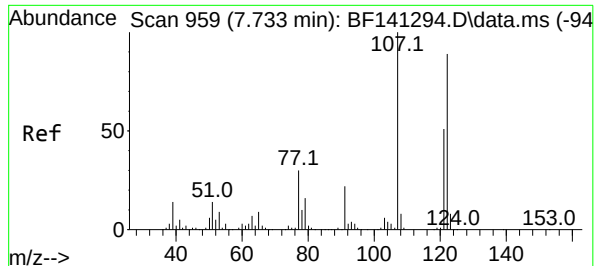
Ion Ratio Lower Upper

139 100

109 30.7 23.8 35.6

65 55.8 42.2 63.4





#27

2,4-Dimethylphenol

Concen: 5.205 ng

RT: 7.728 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

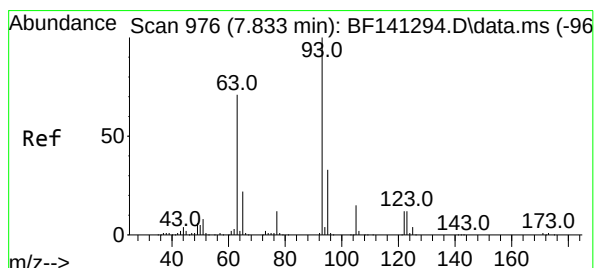
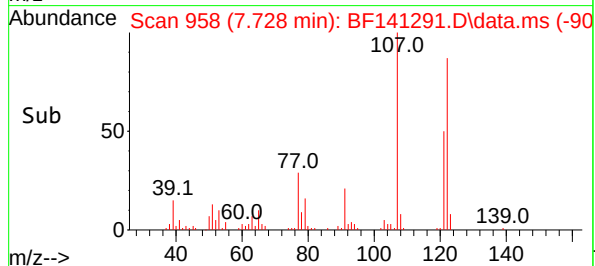
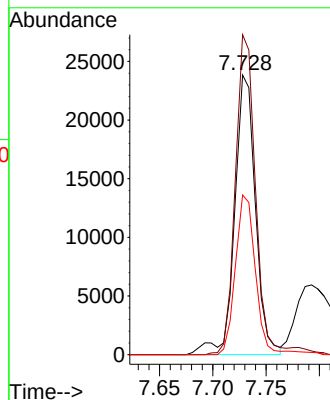
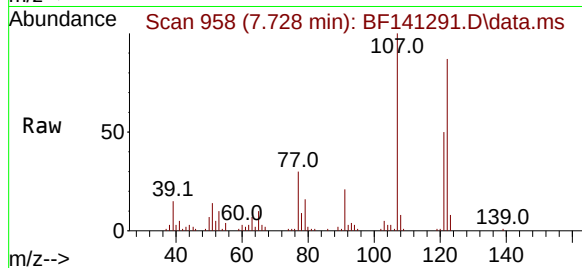
Tgt Ion:122 Resp: 32462

Ion Ratio Lower Upper

122 100

107 114.4 89.9 134.9

121 57.1 46.1 69.1



#28

bis(2-Chloroethoxy)methane

Concen: 5.449 ng

RT: 7.828 min Scan# 975

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

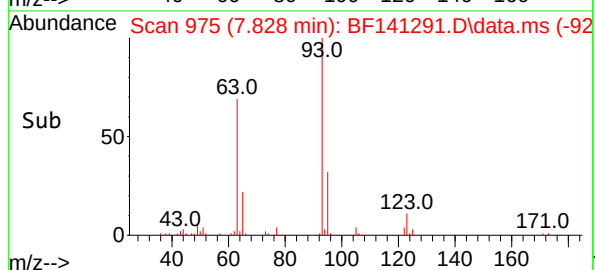
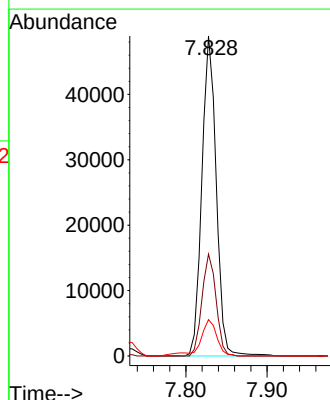
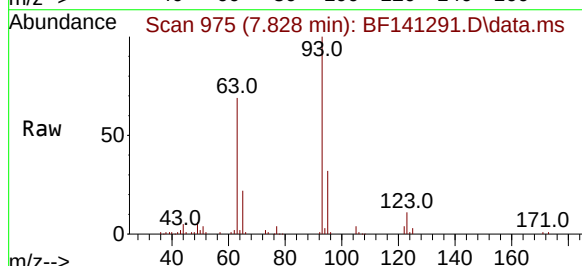
Tgt Ion: 93 Resp: 60286

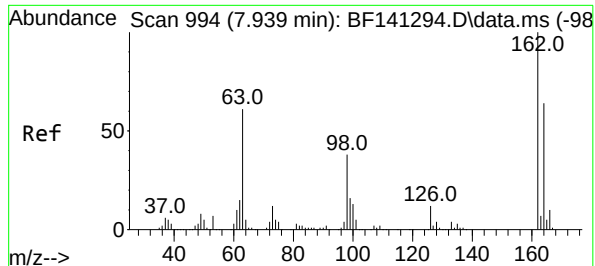
Ion Ratio Lower Upper

93 100

95 31.9 26.2 39.2

123 11.3 10.2 15.4





#29

2,4-Dichlorophenol

Concen: 5.360 ng

RT: 7.934 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDIC005

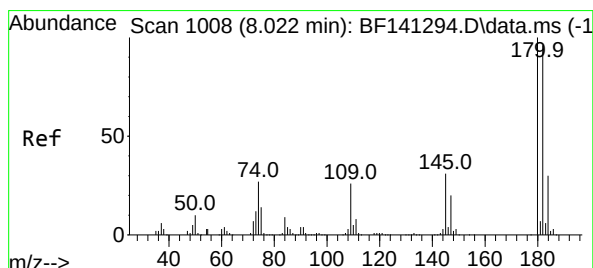
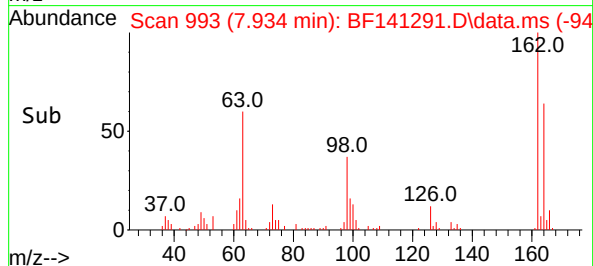
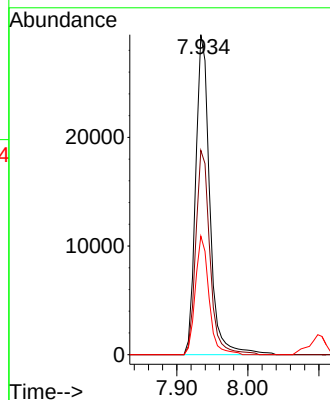
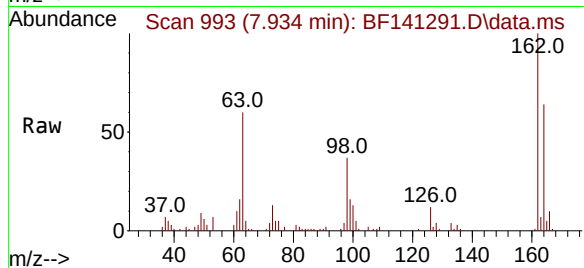
Tgt Ion:162 Resp: 40847

Ion Ratio Lower Upper

162 100

164 63.9 44.2 84.2

98 37.0 18.2 58.2



#30

1,2,4-Trichlorobenzene

Concen: 5.661 ng

RT: 8.022 min Scan# 1008

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

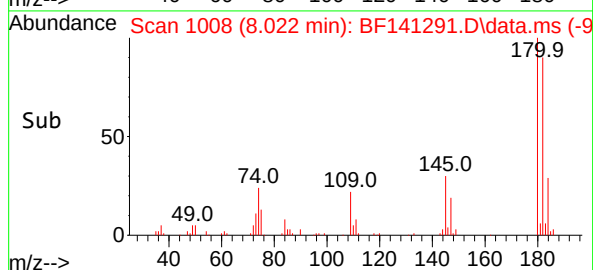
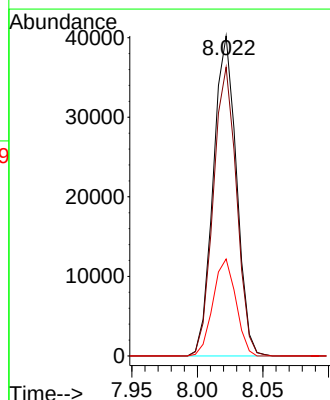
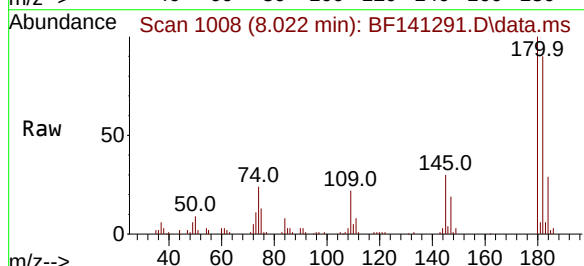
Tgt Ion:180 Resp: 49479

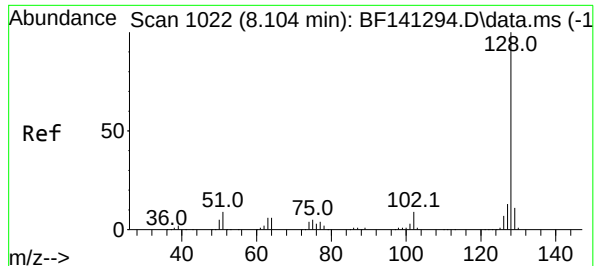
Ion Ratio Lower Upper

180 100

182 90.2 76.4 114.6

145 30.3 24.9 37.3





#31

Naphthalene

Concen: 5.672 ng

RT: 8.098 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

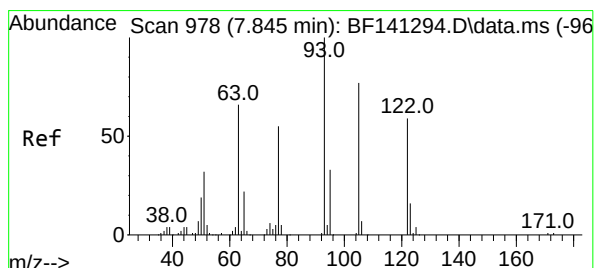
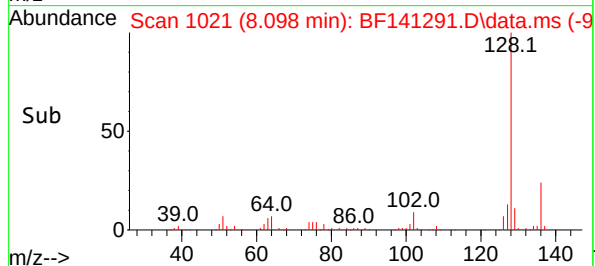
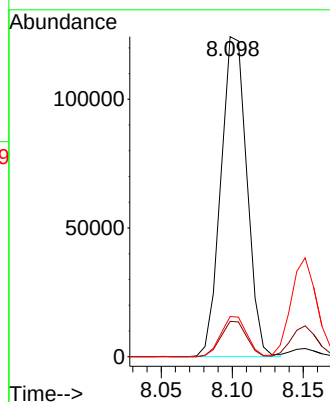
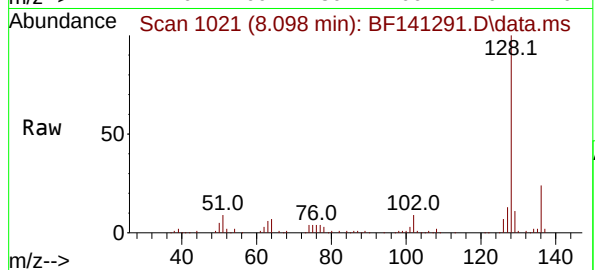
Tgt Ion:128 Resp: 158560

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

127 12.6 10.6 15.8



#32

Benzoic acid

Concen: 3.281 ng

RT: 7.793 min Scan# 969

Delta R.T. -0.053 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

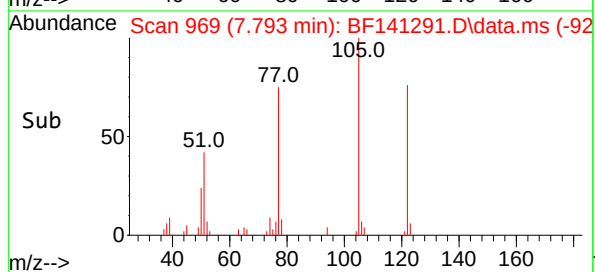
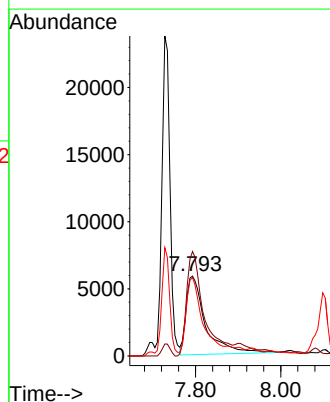
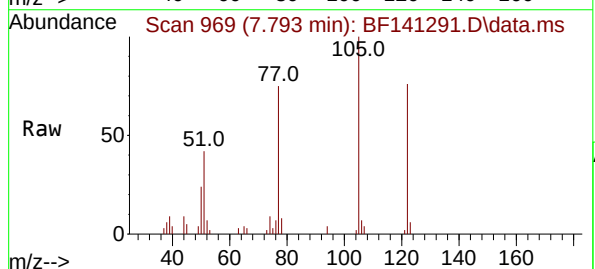
Tgt Ion:122 Resp: 18585

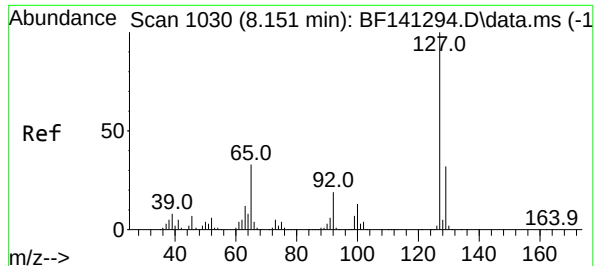
Ion Ratio Lower Upper

122 100

105 130.7 103.4 143.4

77 98.2 70.9 110.9





#33

4-Chloroaniline

Concen: 5.405 ng

RT: 8.151 min Scan# 1030

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

Tgt Ion:127 Resp: 50760

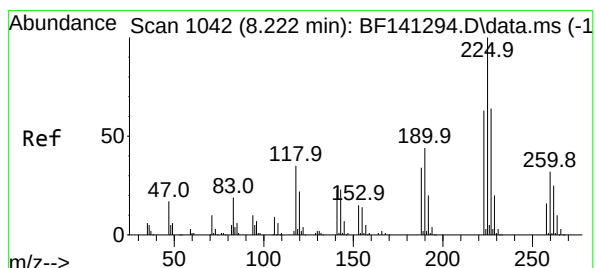
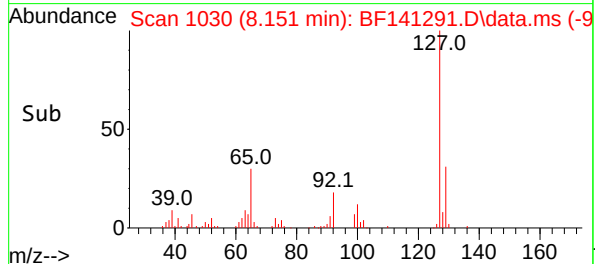
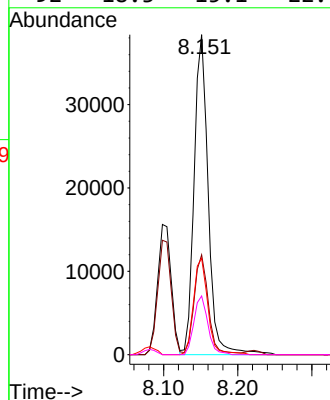
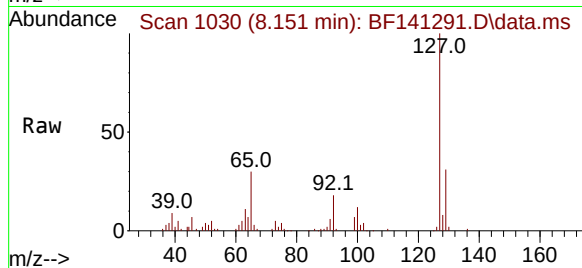
Ion Ratio Lower Upper

127 100

129 31.2 25.7 38.5

65 30.1 26.4 39.6

92 18.3 15.1 22.7



#34

Hexachlorobutadiene

Concen: 5.419 ng

RT: 8.222 min Scan# 1042

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

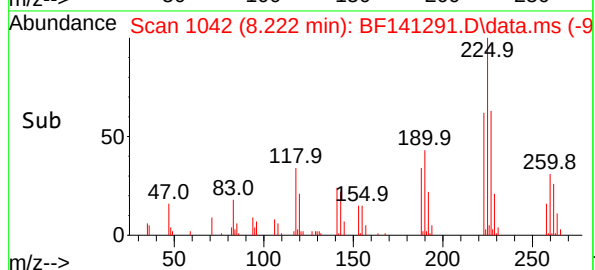
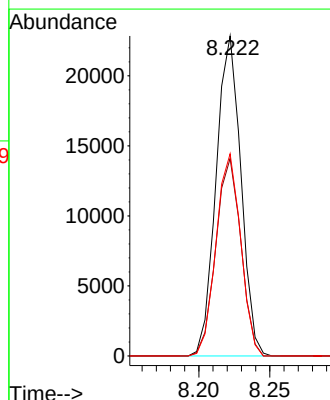
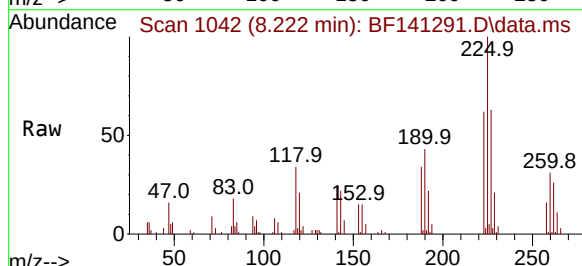
Tgt Ion:225 Resp: 27720

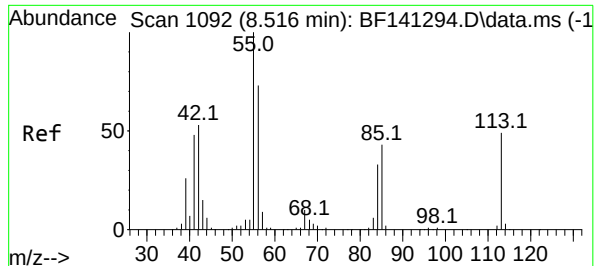
Ion Ratio Lower Upper

225 100

223 61.7 50.4 75.6

227 63.2 51.3 76.9





#35

Caprolactam

Concen: 5.204 ng

RT: 8.475 min Scan# 1108

Delta R.T. -0.041 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

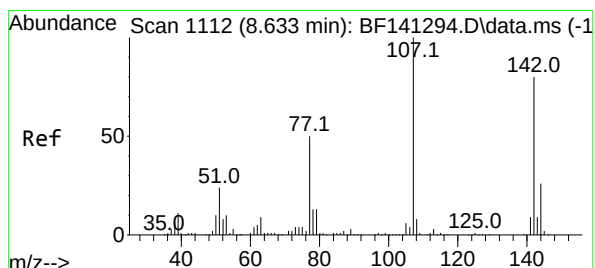
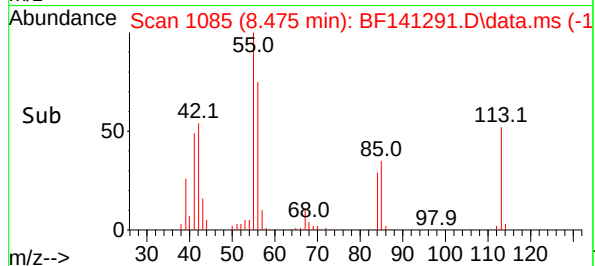
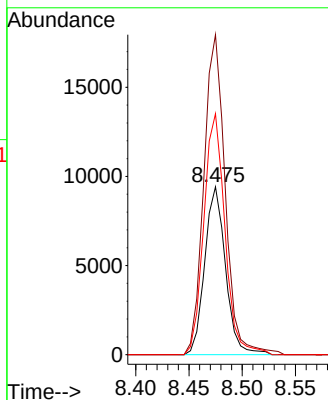
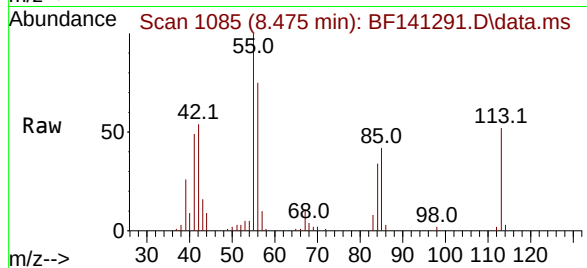
Tgt Ion:113 Resp: 12827

Ion Ratio Lower Upper

113 100

55 190.7 182.9 222.9

56 143.6 127.9 167.9



#36

4-Chloro-3-methylphenol

Concen: 5.334 ng

RT: 8.622 min Scan# 1110

Delta R.T. -0.011 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

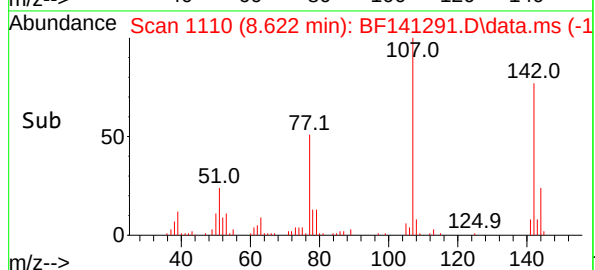
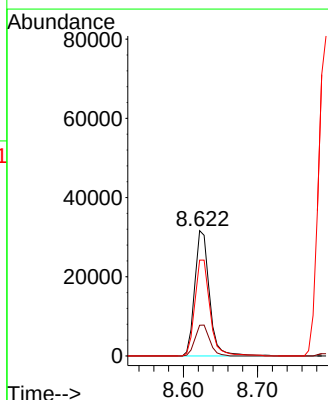
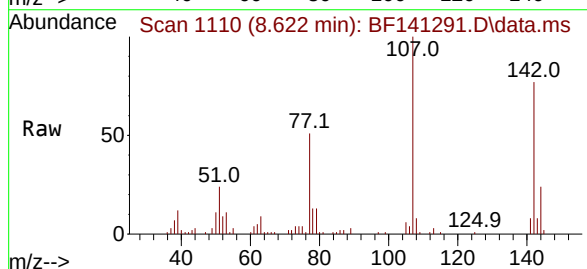
Tgt Ion:107 Resp: 43627

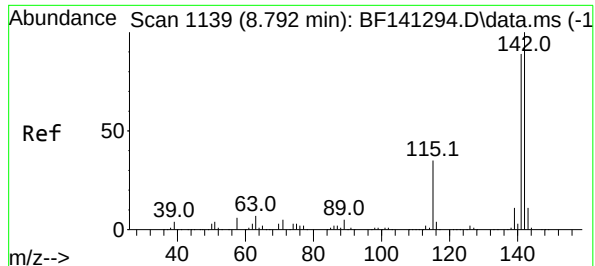
Ion Ratio Lower Upper

107 100

144 24.5 20.7 31.1

142 76.6 63.8 95.8





#37

2-Methylnaphthalene

Concen: 5.634 ng

RT: 8.793 min Scan# 1139

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

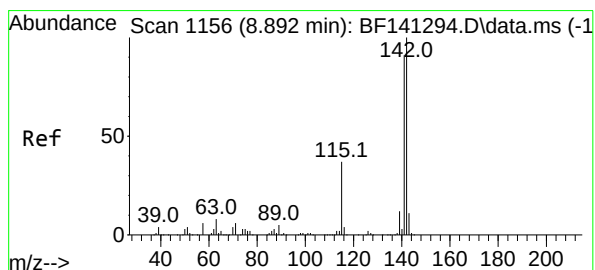
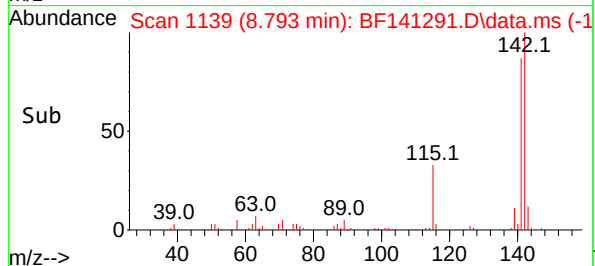
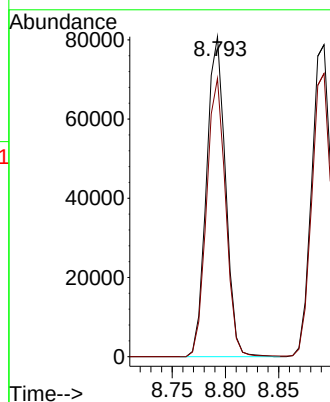
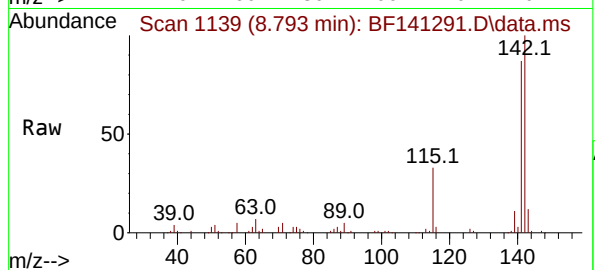
SSTDICC005

Tgt Ion:142 Resp: 100305

Ion Ratio Lower Upper

142 100

141 86.9 71.3 106.9



#38

1-Methylnaphthalene

Concen: 5.767 ng

RT: 8.893 min Scan# 1156

Delta R.T. 0.000 min

Lab File: BF141291.D

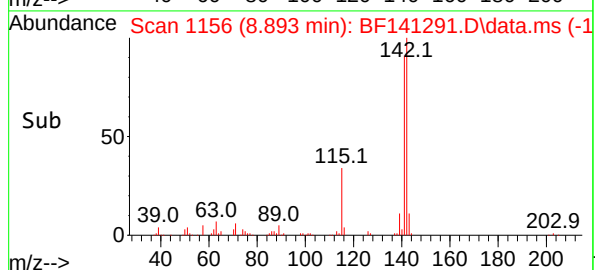
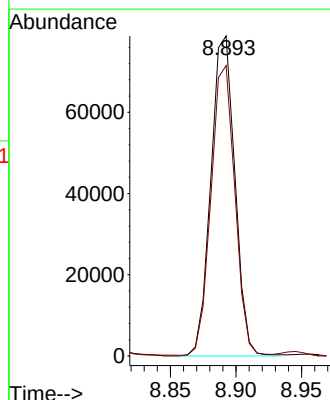
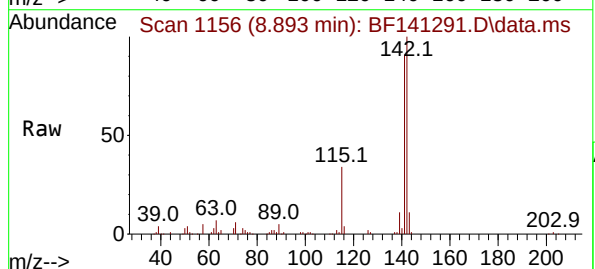
Acq: 29 Jan 2025 10:56

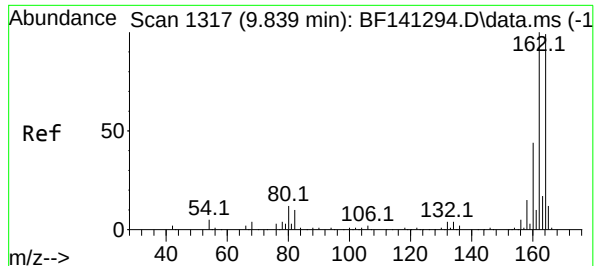
Tgt Ion:142 Resp: 100569

Ion Ratio Lower Upper

142 100

141 90.8 73.2 109.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.834 min Scan# 1116

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

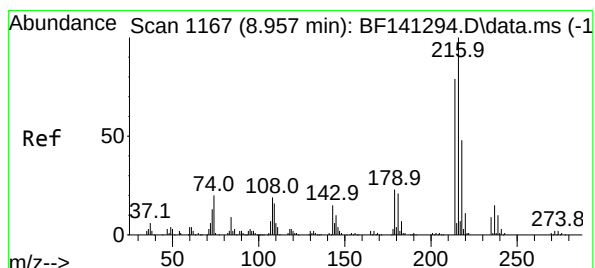
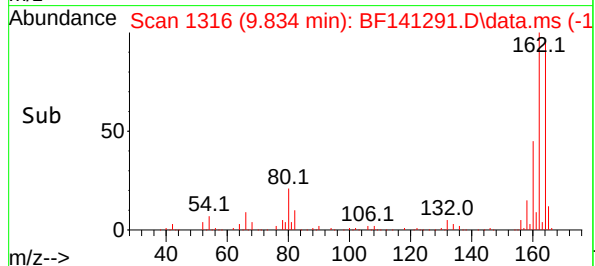
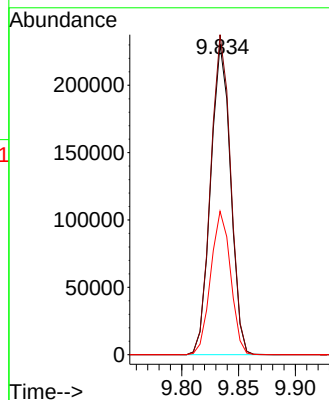
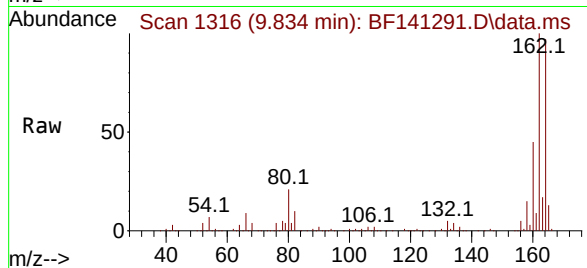
Tgt Ion:164 Resp: 281034

Ion Ratio Lower Upper

164 100

162 103.1 80.6 121.0

160 46.2 35.8 53.6



#40

1,2,4,5-Tetrachlorobenzene

Concen: 5.410 ng

RT: 8.957 min Scan# 1167

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Tgt Ion:216 Resp: 43228

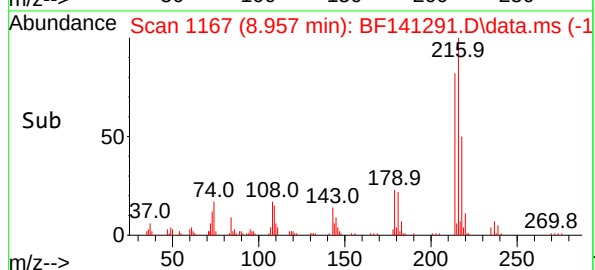
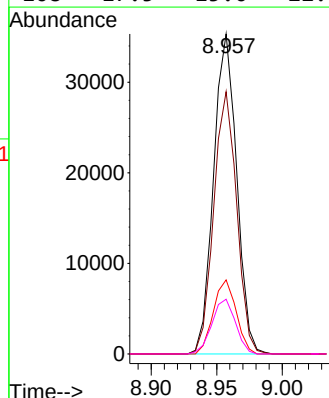
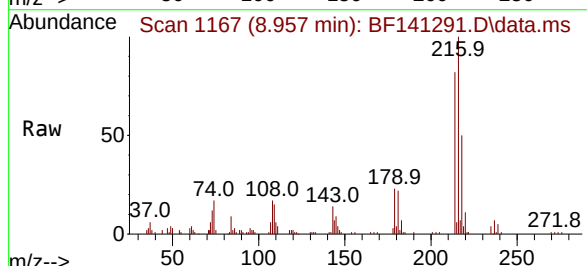
Ion Ratio Lower Upper

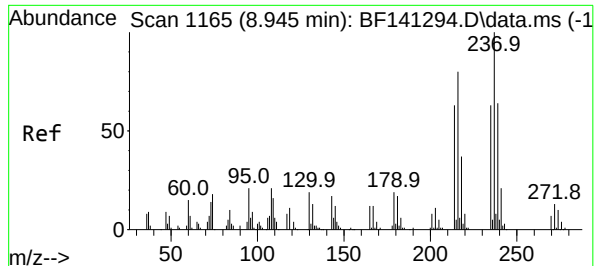
216 100

214 81.4 63.2 94.8

179 22.9 17.8 26.8

108 17.5 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 3.985 ng

RT: 8.945 min Scan# 1165

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

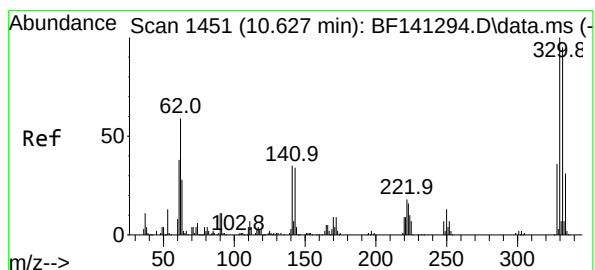
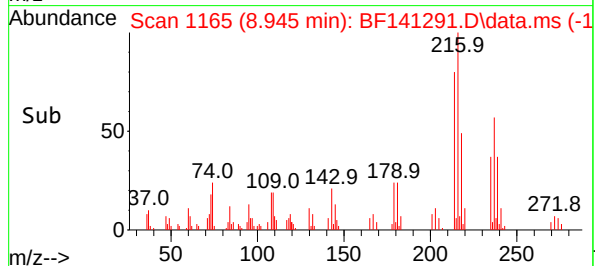
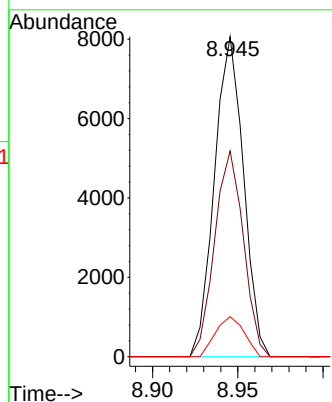
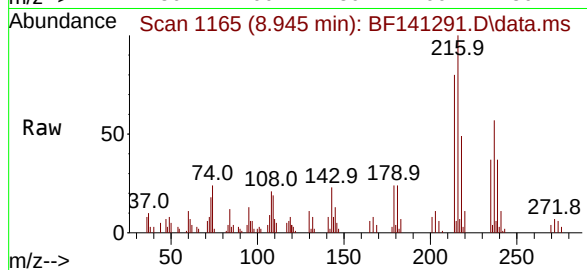
Tgt Ion:237 Resp: 9555

Ion Ratio Lower Upper

237 100

235 64.3 42.9 82.9

272 12.5 0.0 32.8



#42

2,4,6-Tribromophenol

Concen: 10.855 ng

RT: 10.622 min Scan# 1450

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

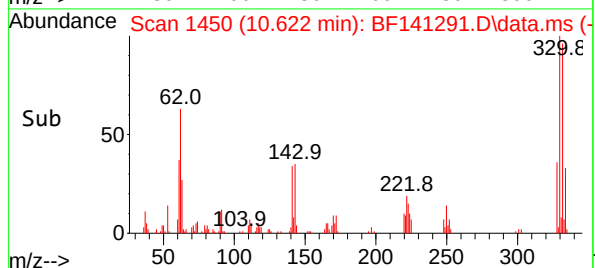
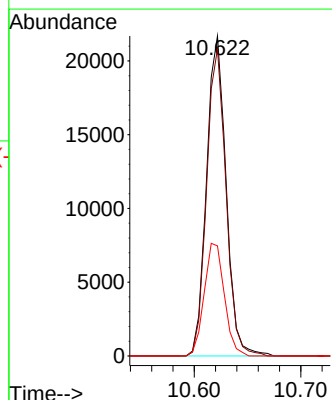
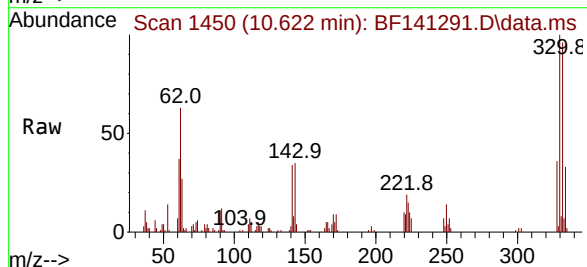
Tgt Ion:330 Resp: 27799

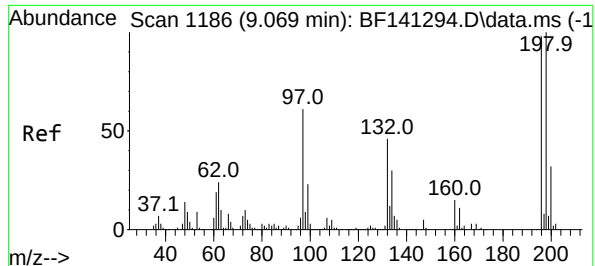
Ion Ratio Lower Upper

330 100

332 94.8 76.1 114.1

141 36.2 28.8 43.2





#43

2,4,6-Trichlorophenol

Concen: 5.136 ng

RT: 9.069 min Scan# 1186

Delta R.T. 0.000 min

Lab File: BF141291.D

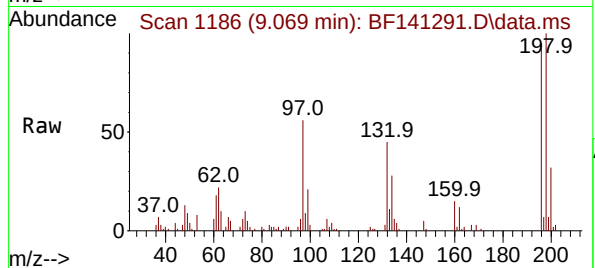
Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005



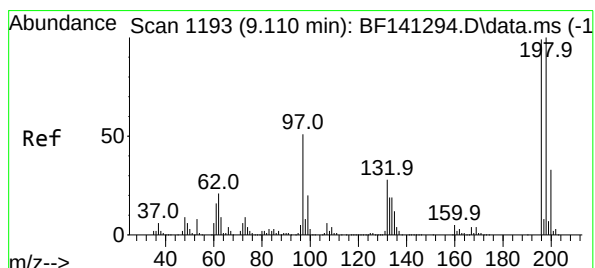
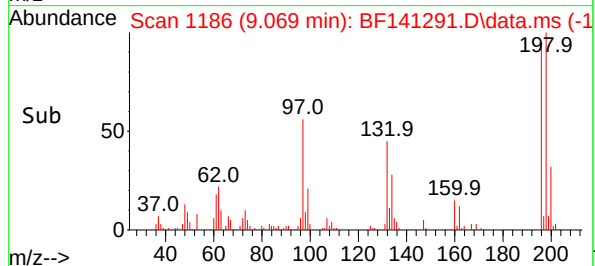
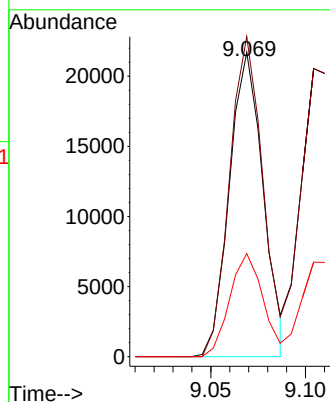
Tgt Ion:196 Resp: 26790

Ion Ratio Lower Upper

196 100

198 105.1 81.8 122.6

200 33.8 26.3 39.5



#44

2,4,5-Trichlorophenol

Concen: 5.309 ng

RT: 9.104 min Scan# 1192

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Tgt Ion:196 Resp: 30127

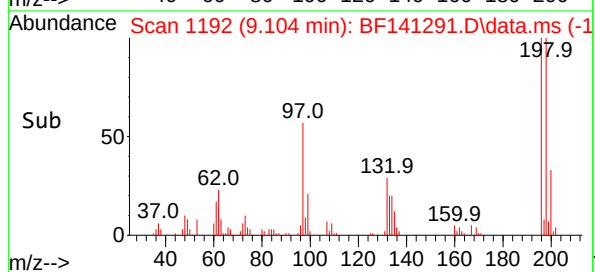
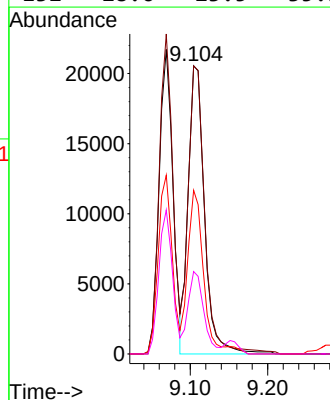
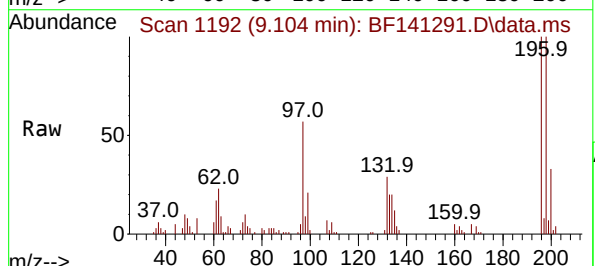
Ion Ratio Lower Upper

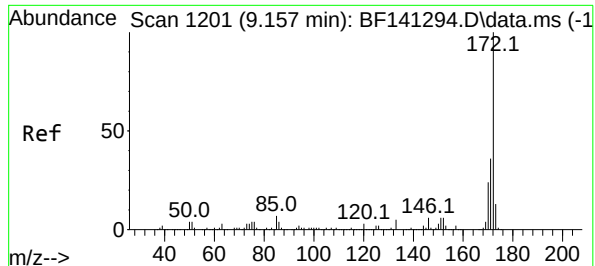
196 100

198 100.0 80.5 120.7

97 56.8 42.8 64.2

132 28.6 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 12.320 ng

RT: 9.151 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDIC005

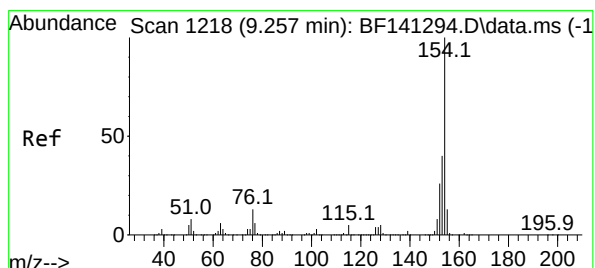
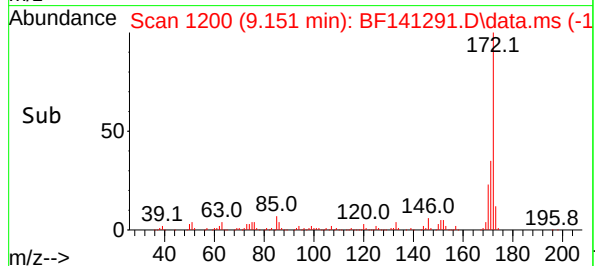
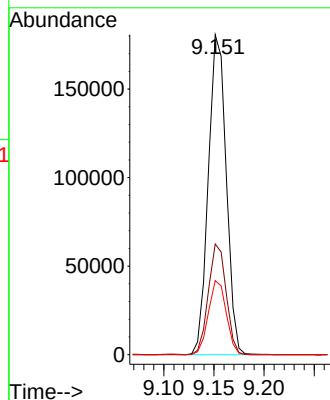
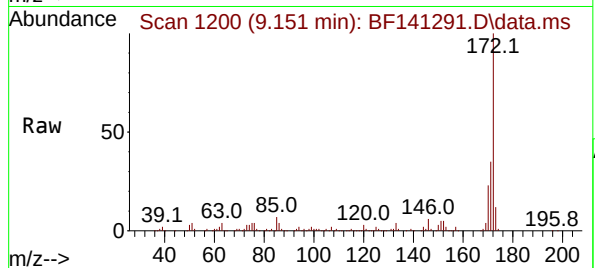
Tgt Ion:172 Resp: 224446

Ion Ratio Lower Upper

172 100

171 34.6 28.8 43.2

170 23.1 19.0 28.6



#46

1,1'-Biphenyl

Concen: 5.801 ng

RT: 9.257 min Scan# 1218

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

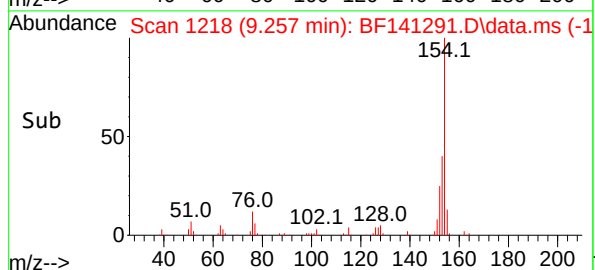
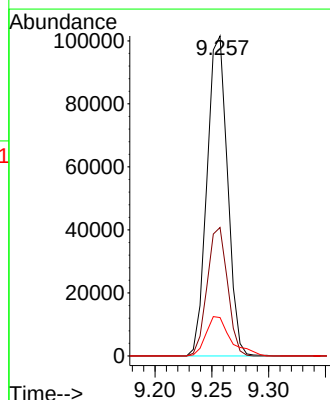
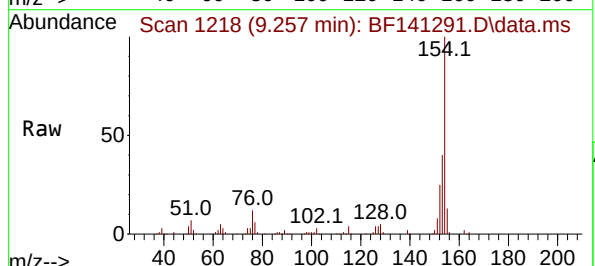
Tgt Ion:154 Resp: 127187

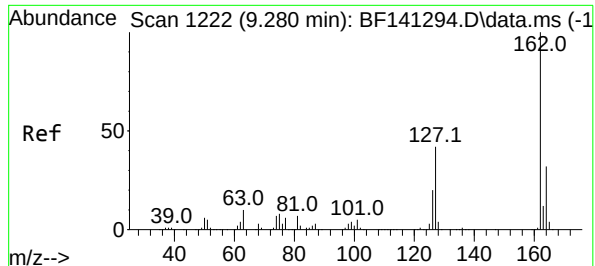
Ion Ratio Lower Upper

154 100

153 40.1 20.0 60.0

76 12.0 0.0 32.8





#47

2-Chloronaphthalene

Concen: 5.760 ng

RT: 9.281 min Scan# 1222

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

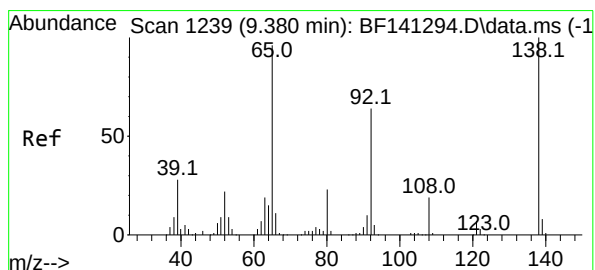
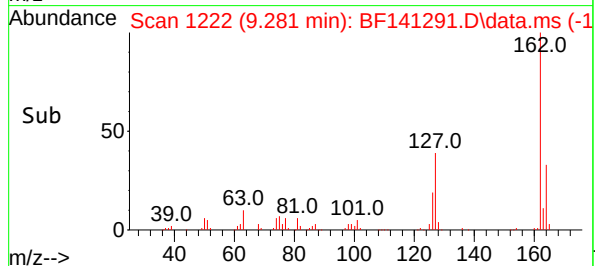
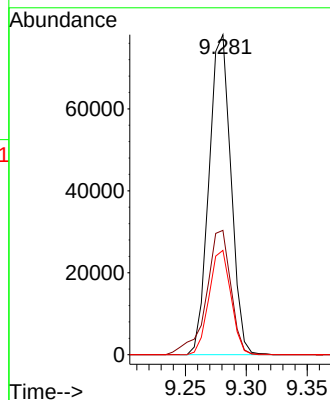
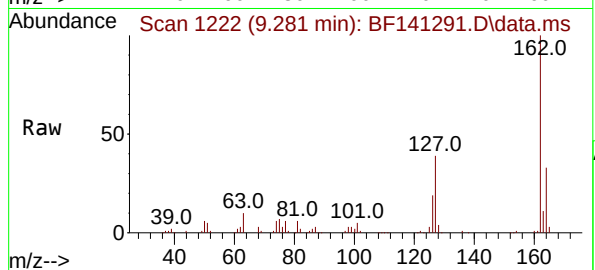
Tgt Ion:162 Resp: 98081

Ion Ratio Lower Upper

162 100

127 38.8 33.7 50.5

164 32.6 25.9 38.9



#48

2-Nitroaniline

Concen: 5.056 ng

RT: 9.375 min Scan# 1238

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

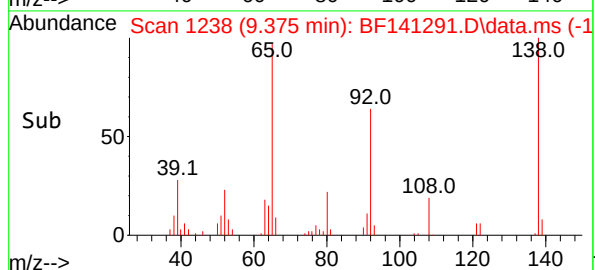
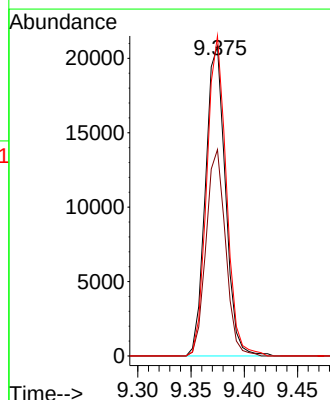
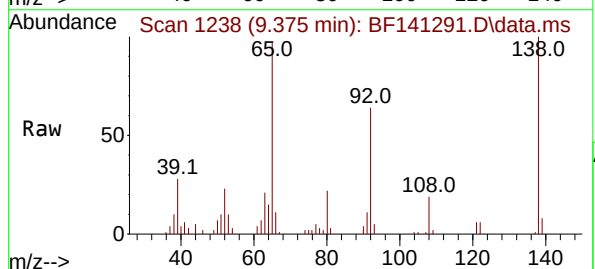
Tgt Ion: 65 Resp: 27154

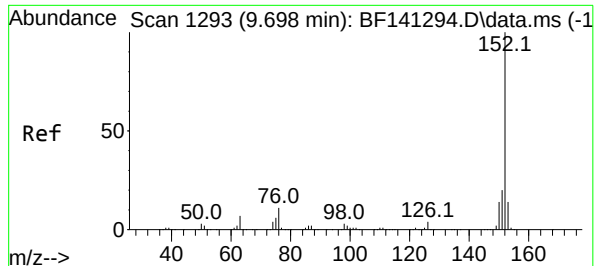
Ion Ratio Lower Upper

65 100

92 66.6 53.3 79.9

138 103.3 83.6 125.4





#49

Acenaphthylene

Concen: 5.643 ng

RT: 9.692 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

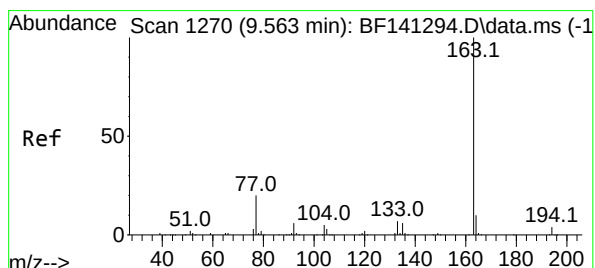
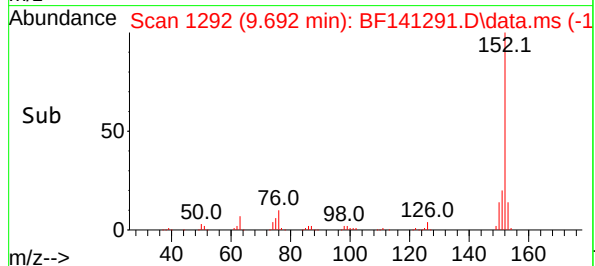
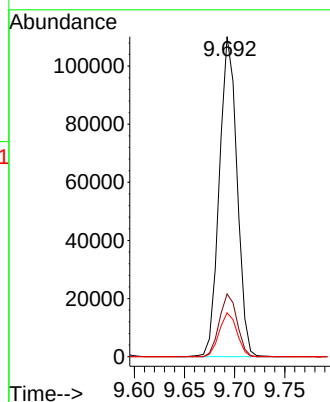
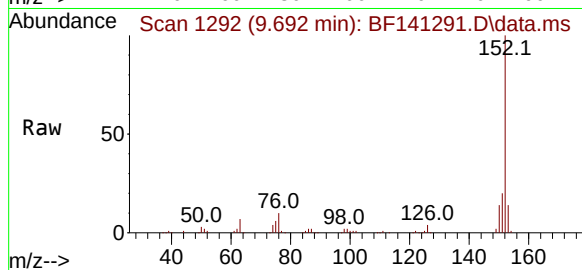
Tgt Ion:152 Resp: 134958

Ion Ratio Lower Upper

152 100

151 19.6 16.2 24.2

153 13.7 11.0 16.6



#50

Dimethylphthalate

Concen: 5.584 ng

RT: 9.551 min Scan# 1268

Delta R.T. -0.011 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

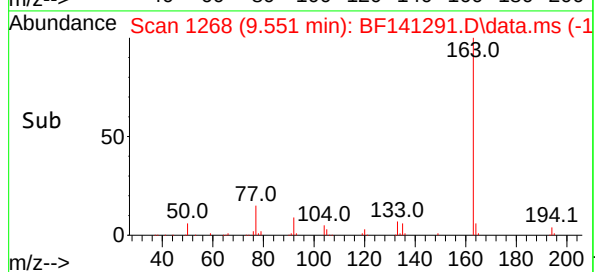
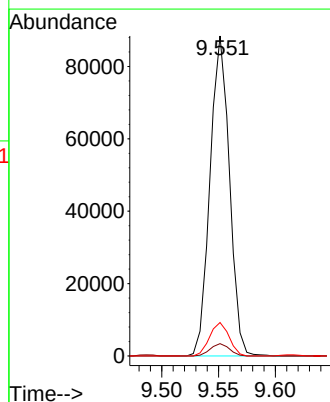
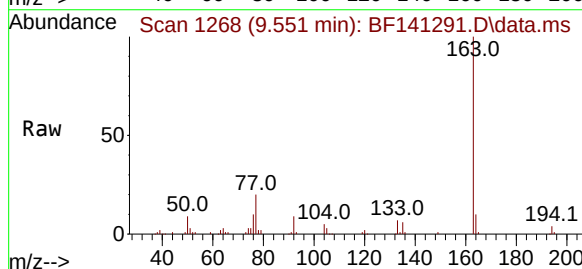
Tgt Ion:163 Resp: 105240

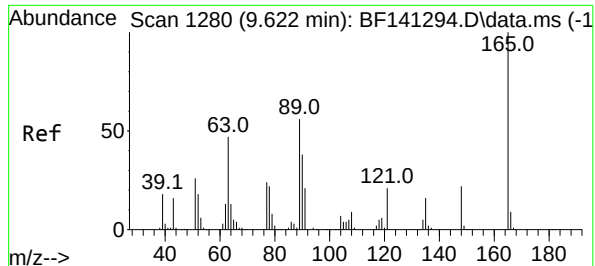
Ion Ratio Lower Upper

163 100

194 3.9 3.0 4.6

164 10.5 8.0 12.0





#51

2,6-Dinitrotoluene

Concen: 5.329 ng

RT: 9.616 min Scan# 1279

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

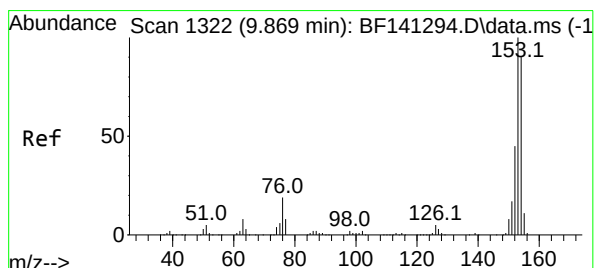
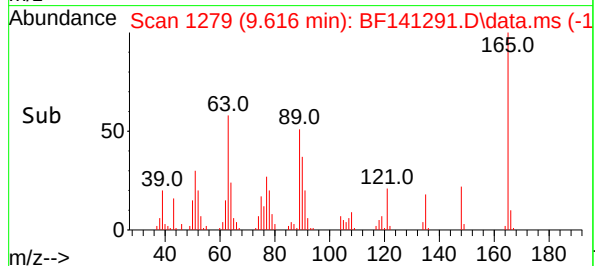
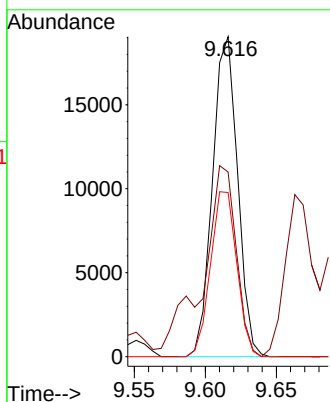
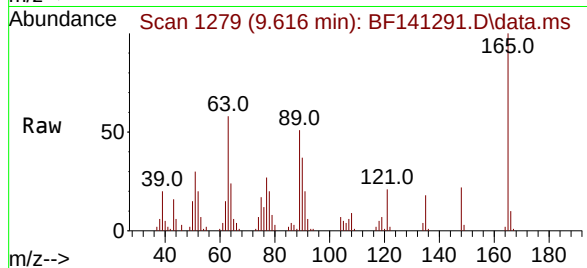
Tgt Ion:165 Resp: 23372

Ion Ratio Lower Upper

165 100

63 57.7 48.1 72.1

89 51.3 44.9 67.3



#52

Acenaphthene

Concen: 5.617 ng

RT: 9.869 min Scan# 1322

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

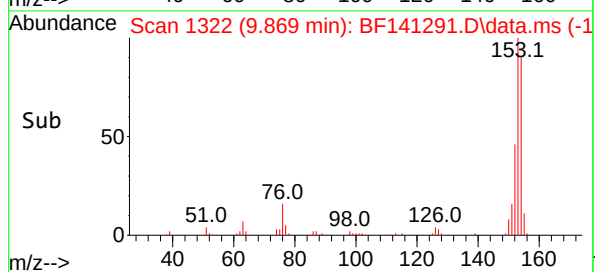
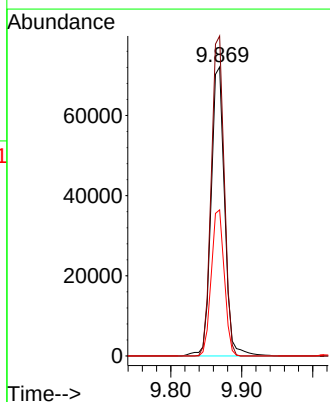
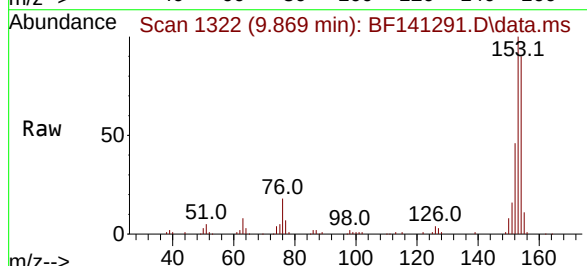
Tgt Ion:154 Resp: 95591

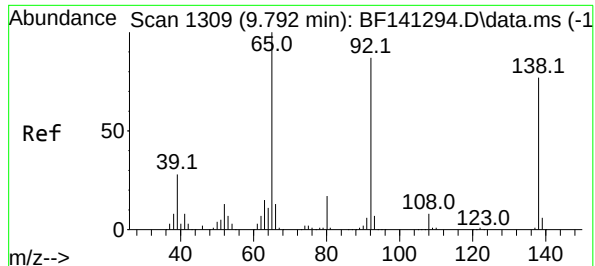
Ion Ratio Lower Upper

154 100

153 110.8 89.0 133.4

152 50.6 40.2 60.4





#53

3-Nitroaniline

Concen: 5.206 ng

RT: 9.781 min Scan# 11

Delta R.T. -0.011 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

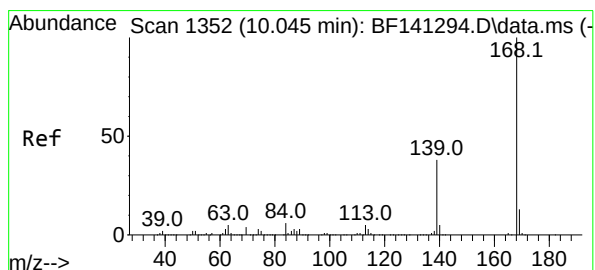
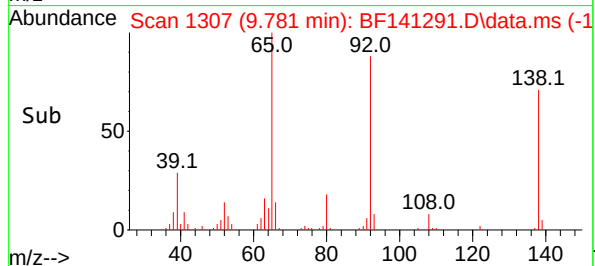
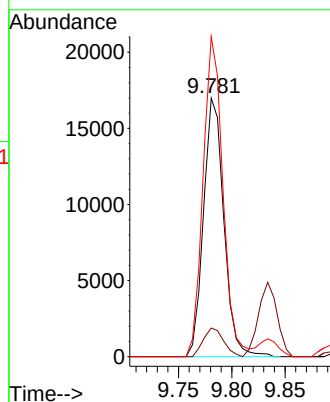
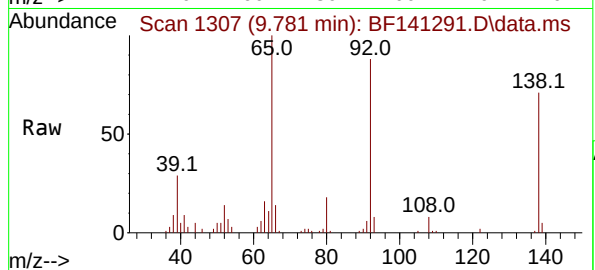
Tgt Ion:138 Resp: 22582

Ion Ratio Lower Upper

138 100

108 11.1 8.6 12.8

92 123.7 91.0 136.6



#55

Dibenzofuran

Concen: 5.769 ng

RT: 10.039 min Scan# 1351

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

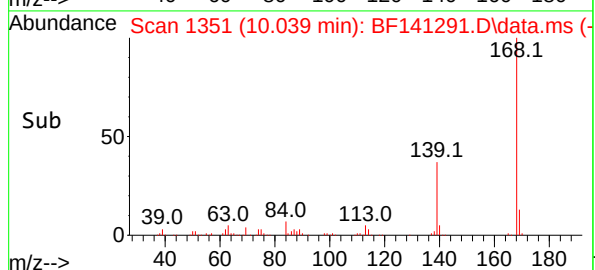
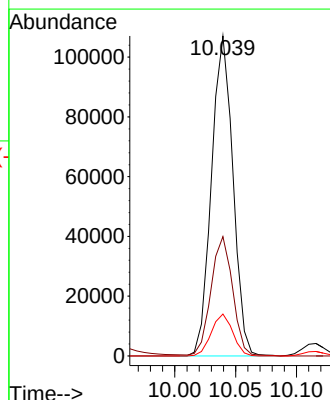
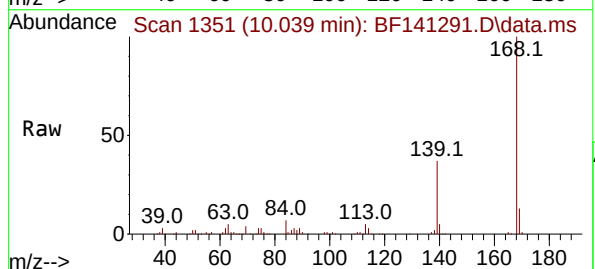
Tgt Ion:168 Resp: 131288

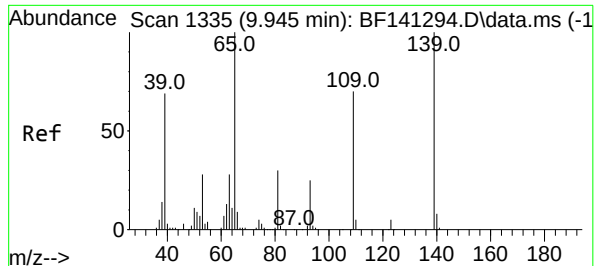
Ion Ratio Lower Upper

168 100

139 37.3 30.6 46.0

169 13.1 10.8 16.2





#56

4-Nitrophenol

Concen: 4.226 ng

RT: 9.945 min Scan# 1335

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

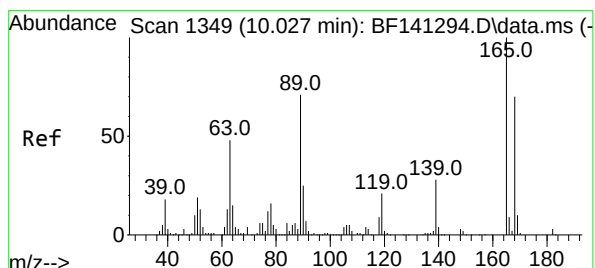
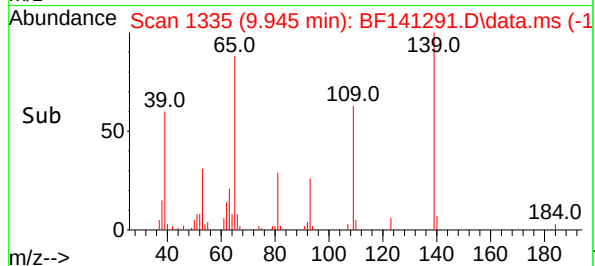
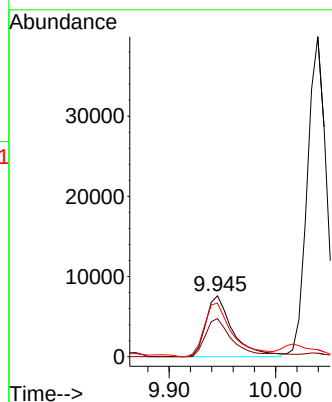
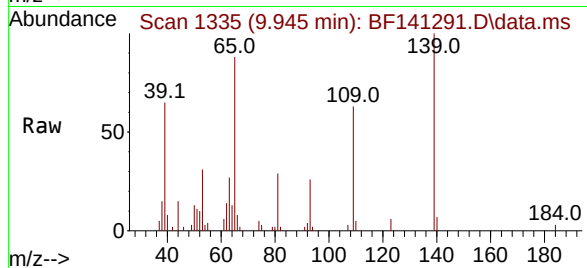
Tgt Ion:139 Resp: 13160

Ion Ratio Lower Upper

139 100

109 62.7 50.2 90.2

65 88.2 80.6 120.6



#57

2,4-Dinitrotoluene

Concen: 5.268 ng

RT: 10.016 min Scan# 1347

Delta R.T. -0.011 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Tgt Ion:165 Resp: 29799

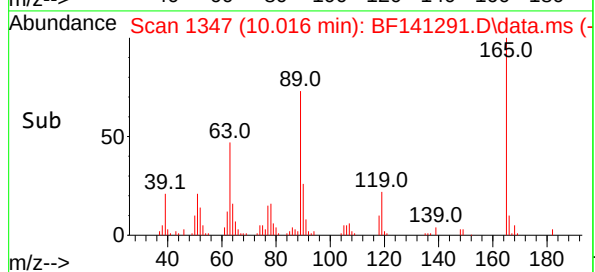
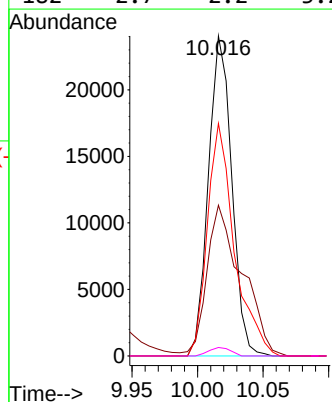
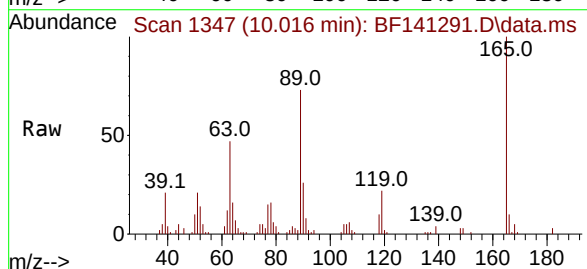
Ion Ratio Lower Upper

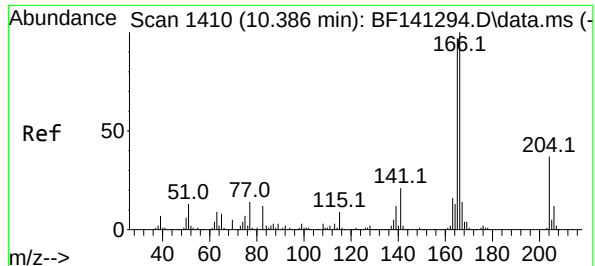
165 100

63 47.1 39.2 58.8

89 72.7 56.9 85.3

182 2.7 2.2 3.2





#58

Fluorene

Concen: 6.002 ng

RT: 10.381 min Scan# 1410

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDIC005

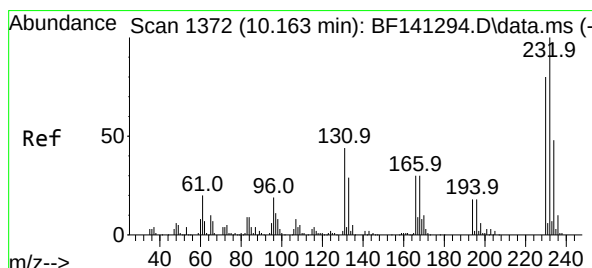
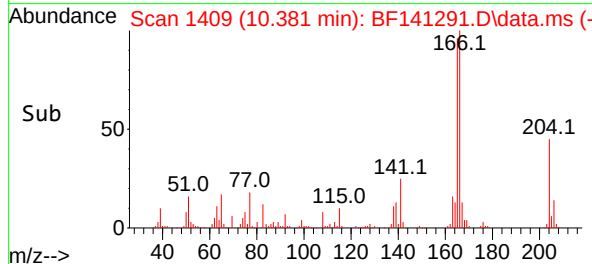
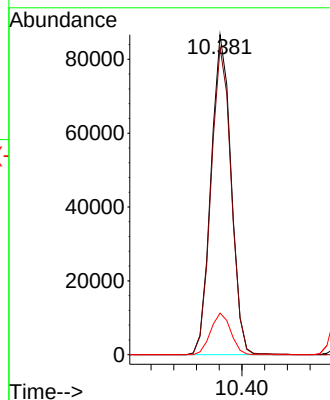
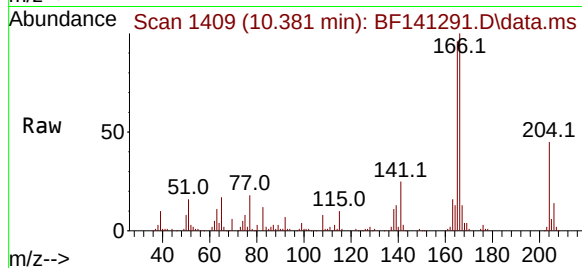
Tgt Ion:166 Resp: 106198

Ion Ratio Lower Upper

166 100

165 96.0 77.5 116.3

167 13.0 10.9 16.3



#59

2,3,4,6-Tetrachlorophenol

Concen: 5.090 ng

RT: 10.157 min Scan# 1371

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Tgt Ion:232 Resp: 22818

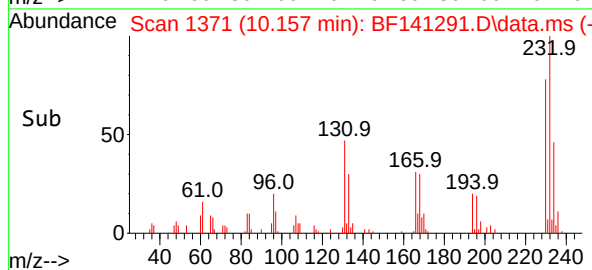
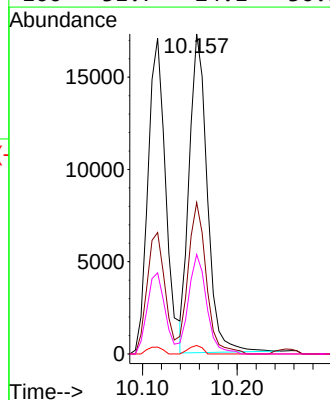
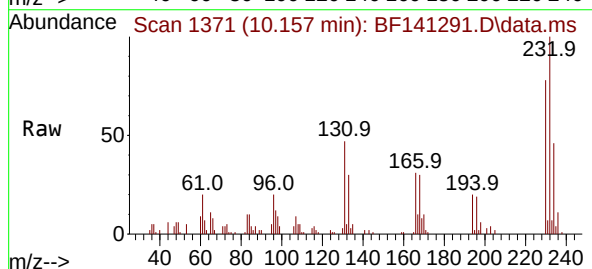
Ion Ratio Lower Upper

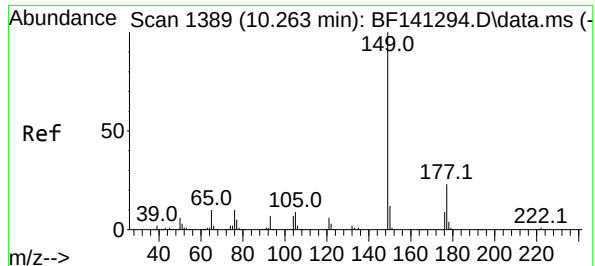
232 100

131 48.3 36.4 54.6

130 2.1 1.9 2.9

166 31.7 24.1 36.1





#60

Diethylphthalate

Concen: 5.660 ng

RT: 10.251 min Scan# 11

Delta R.T. -0.011 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

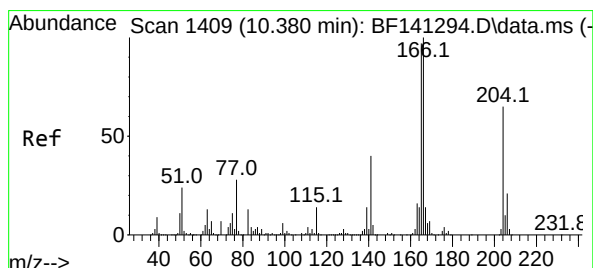
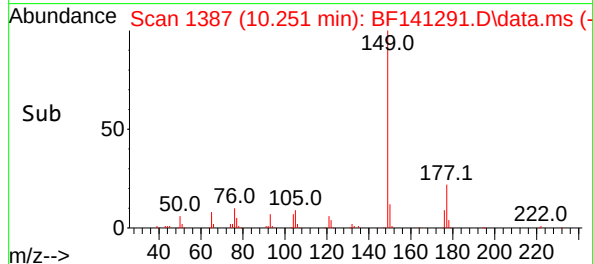
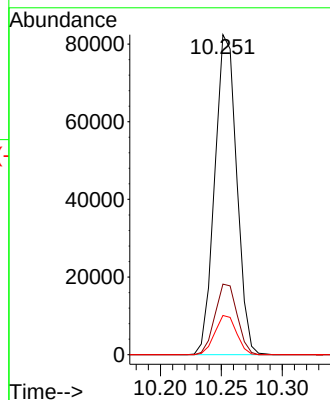
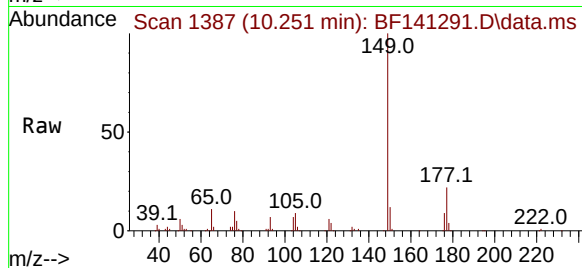
Tgt Ion:149 Resp: 103307

Ion Ratio Lower Upper

149 100

177 22.1 18.5 27.7

150 12.3 10.0 15.0



#61

4-Chlorophenyl-phenylether

Concen: 6.007 ng

RT: 10.375 min Scan# 1408

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

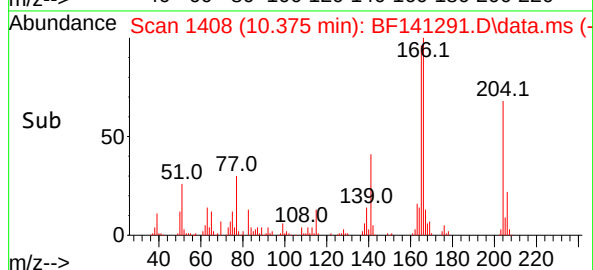
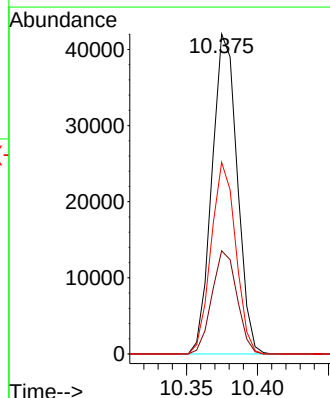
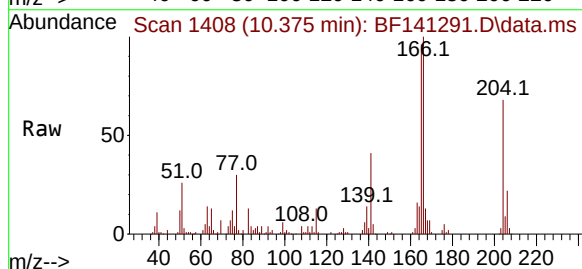
Tgt Ion:204 Resp: 51875

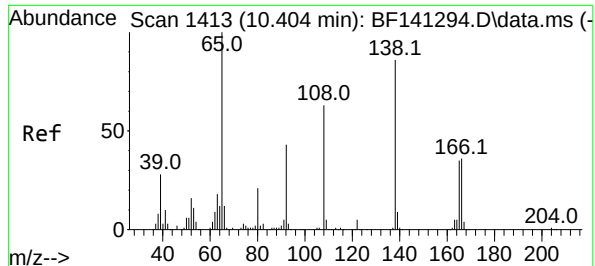
Ion Ratio Lower Upper

204 100

206 32.3 25.9 38.9

141 59.9 49.5 74.3





#62

4-Nitroaniline

Concen: 5.008 ng

RT: 10.387 min Scan# 1410

Delta R.T. -0.017 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

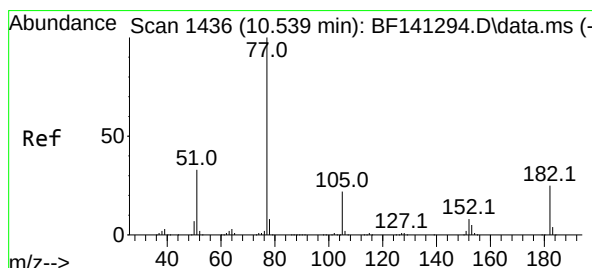
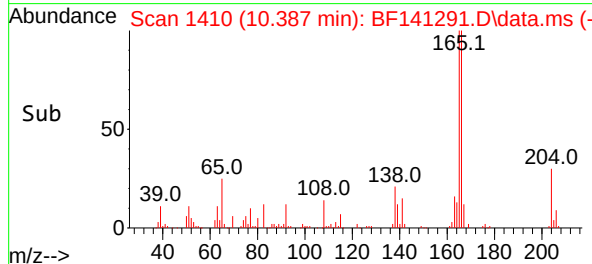
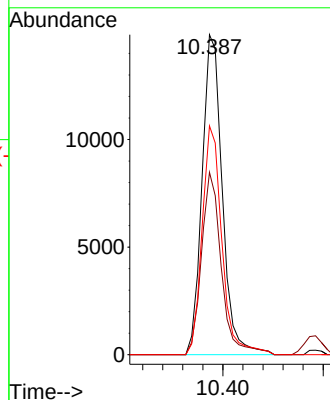
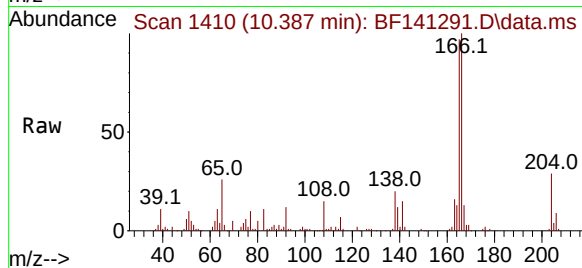
Tgt Ion:138 Resp: 20870

Ion Ratio Lower Upper

138 100

92 57.0 30.1 70.1

108 71.5 53.1 93.1



#63

Azobenzene

Concen: 5.623 ng

RT: 10.534 min Scan# 1435

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Tgt Ion: 77 Resp: 102878

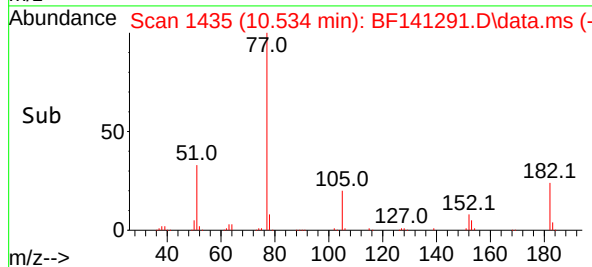
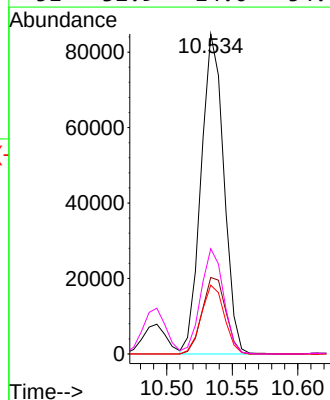
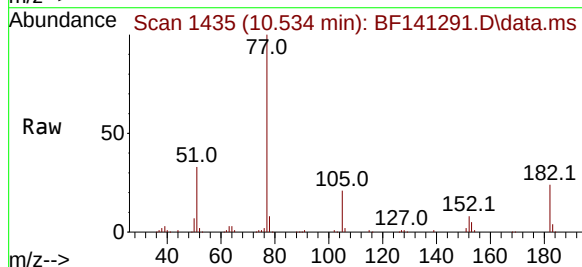
Ion Ratio Lower Upper

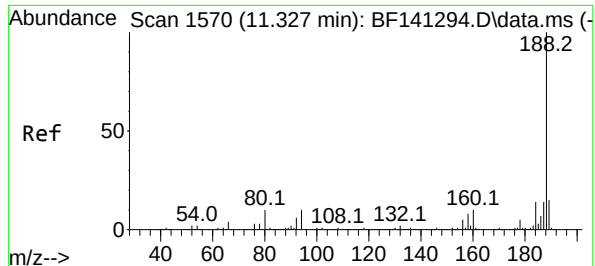
77 100

182 23.9 5.1 45.1

105 21.5 1.8 41.8

51 32.9 14.0 54.0

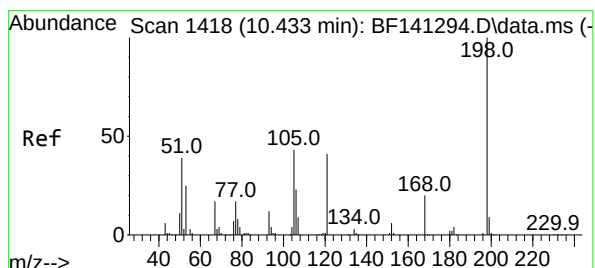
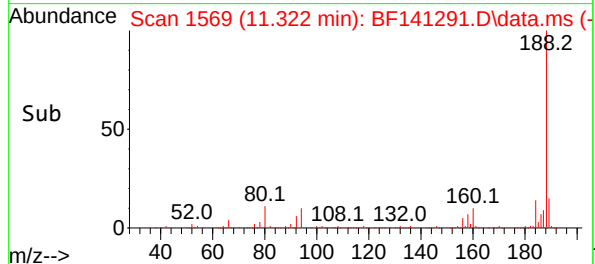
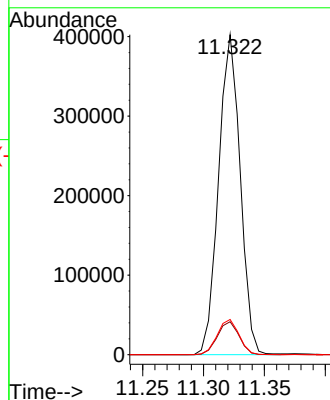
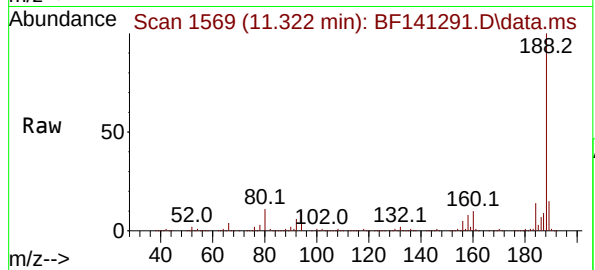




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

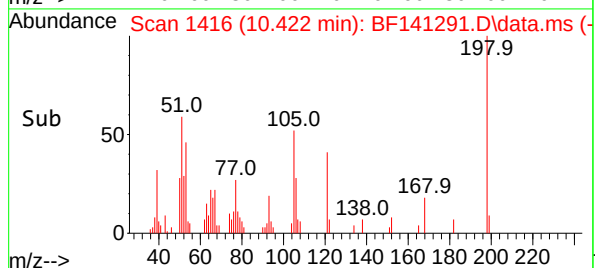
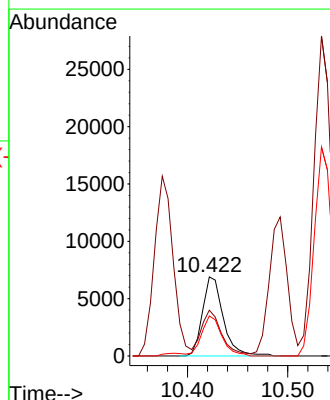
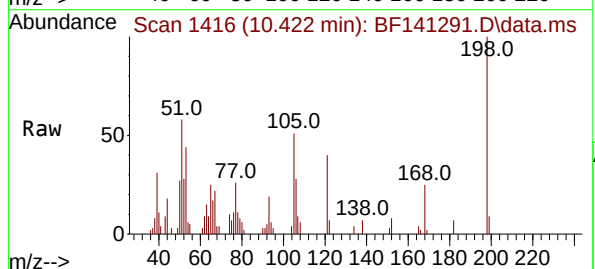
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

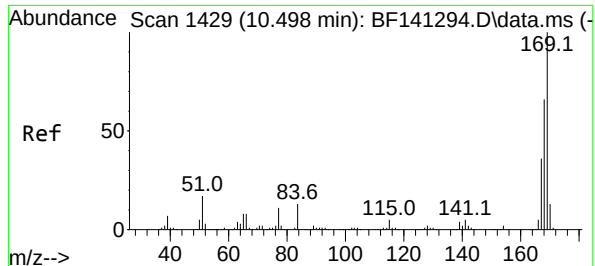
Tgt Ion:188 Resp: 497368
Ion Ratio Lower Upper
188 100
94 10.3 7.8 11.6
80 11.0 8.2 12.4



#65
4,6-Dinitro-2-methylphenol
Concen: 3.353 ng
RT: 10.422 min Scan# 1416
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:198 Resp: 9960
Ion Ratio Lower Upper
198 100
51 57.8 33.4 73.4
105 50.6 24.4 64.4





#66

n-Nitrosodiphenylamine

Concen: 5.523 ng

RT: 10.492 min Scan# 1428

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDIC005

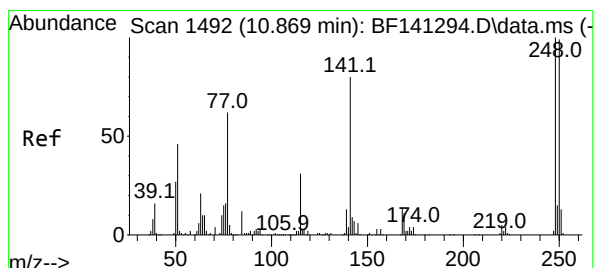
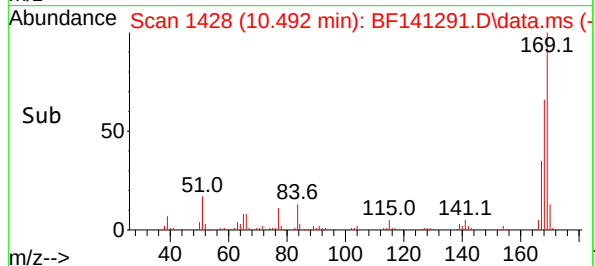
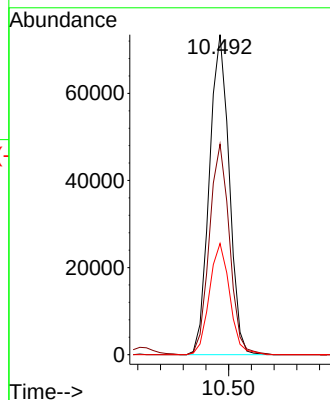
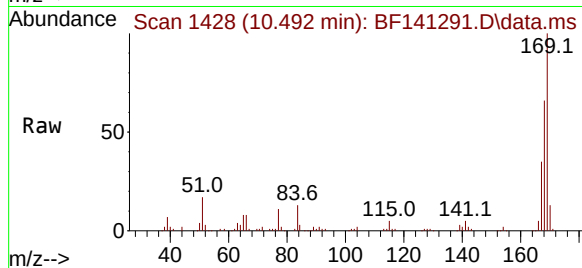
Tgt Ion:169 Resp: 89060

Ion Ratio Lower Upper

169 100

168 65.8 53.0 79.4

167 34.7 28.8 43.2



#67

4-Bromophenyl-phenylether

Concen: 5.245 ng

RT: 10.869 min Scan# 1492

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

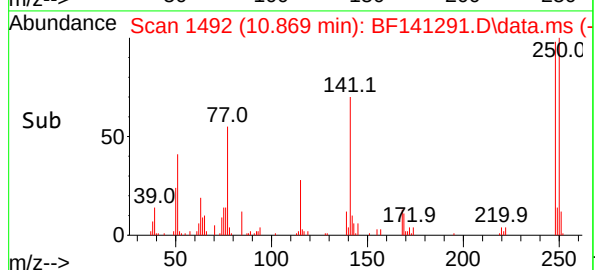
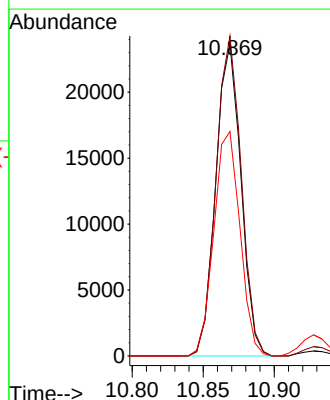
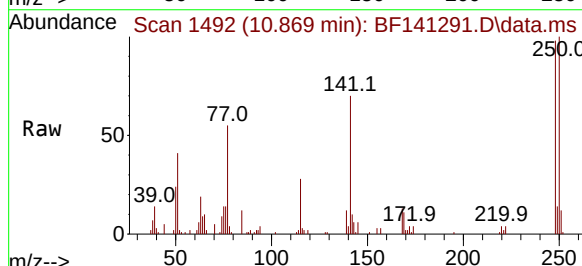
Tgt Ion:248 Resp: 29160

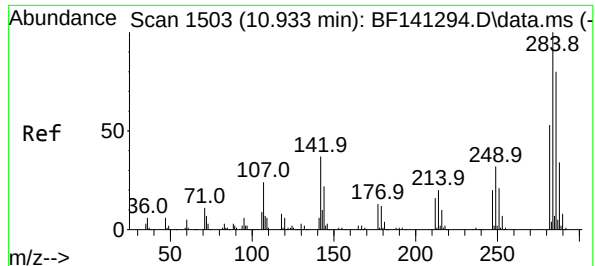
Ion Ratio Lower Upper

248 100

250 102.5 79.0 118.4

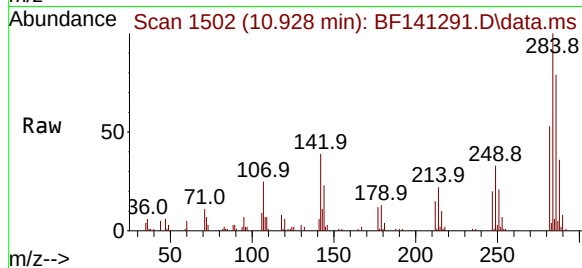
141 71.9 63.7 95.5



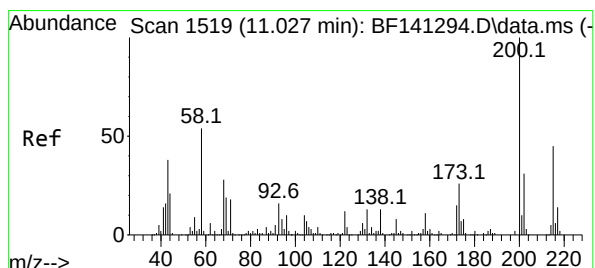
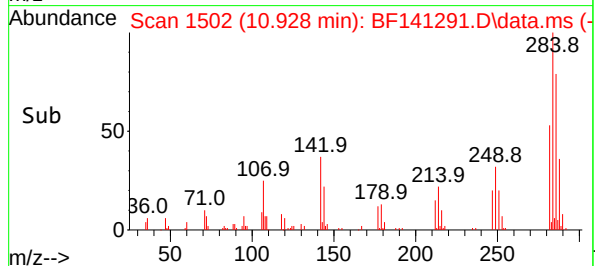
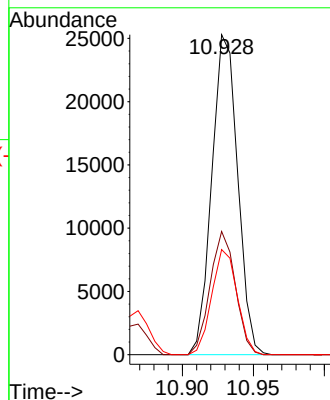


#68
Hexachlorobenzene
Concen: 5.424 ng
RT: 10.928 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Instrument :
BNA_F
ClientSampleId :
SSTDICC005

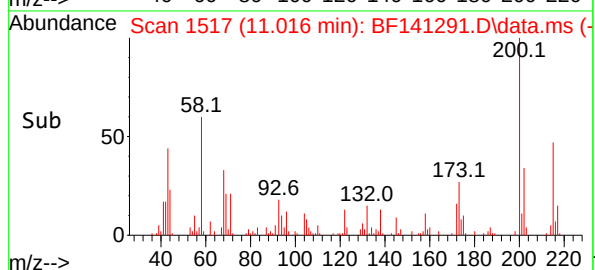
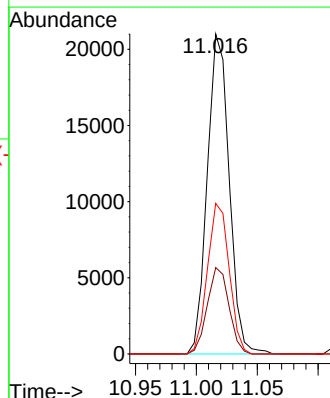
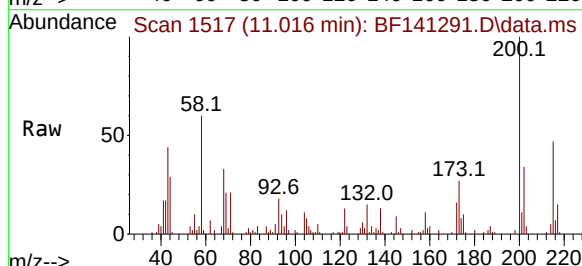


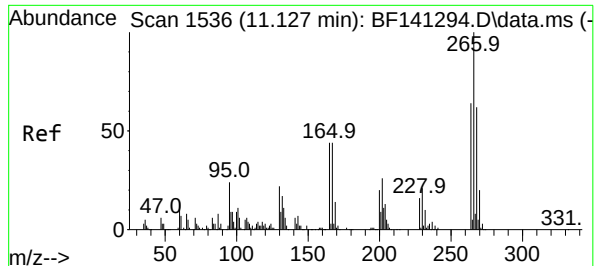
Tgt Ion:284 Resp: 31990
Ion Ratio Lower Upper
284 100
142 38.5 29.5 44.3
249 32.8 25.4 38.2



#69
Atrazine
Concen: 4.855 ng
RT: 11.016 min Scan# 1517
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:200 Resp: 26258
Ion Ratio Lower Upper
200 100
173 27.0 5.9 45.9
215 47.0 25.2 65.2

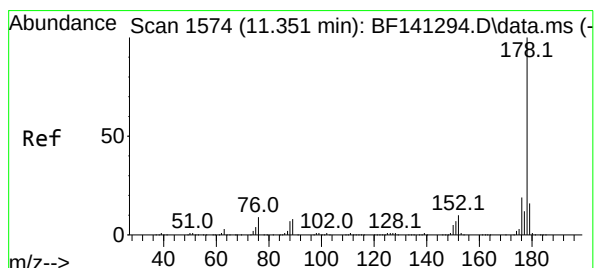
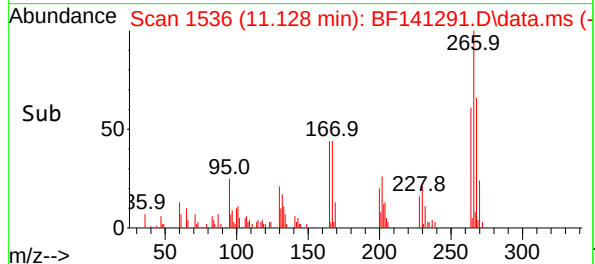
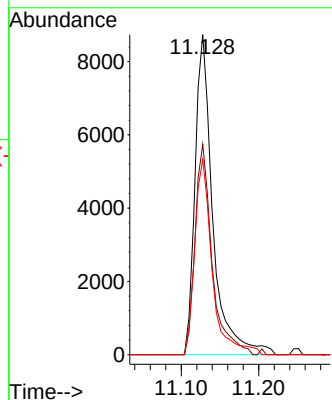
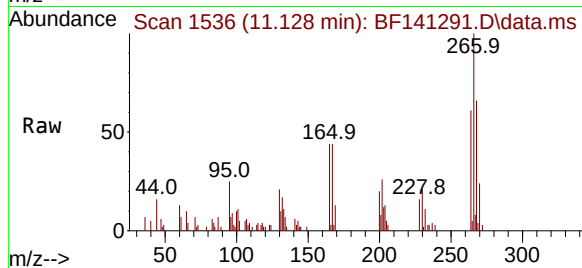




#70
Pentachlorophenol
Concen: 4.027 ng
RT: 11.128 min Scan# 1536
Delta R.T. 0.000 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

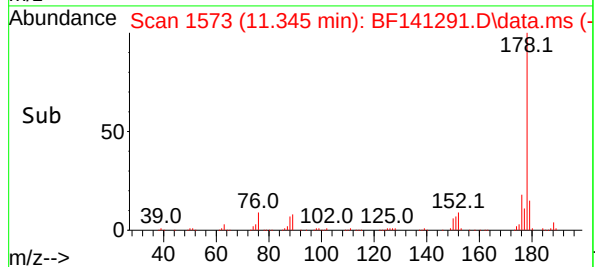
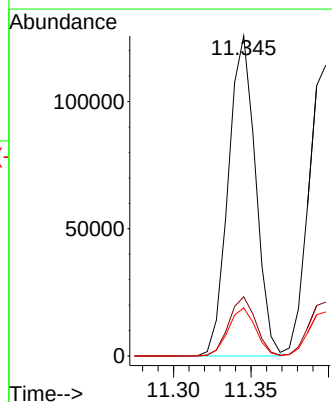
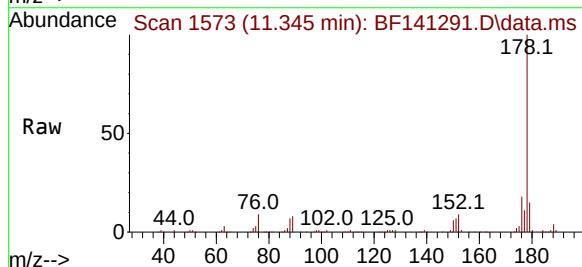
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

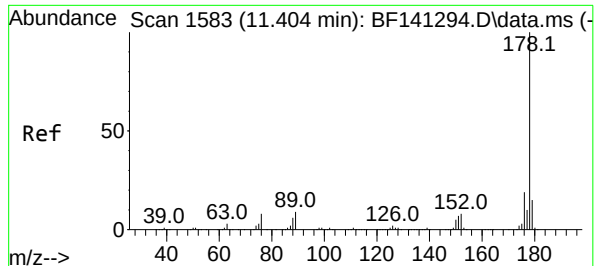
Tgt Ion:266 Resp: 13924
Ion Ratio Lower Upper
266 100
268 65.7 49.9 74.9
264 61.1 51.0 76.4



#71
Phenanthrene
Concen: 5.738 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:178 Resp: 153320
Ion Ratio Lower Upper
178 100
176 18.5 15.3 22.9
179 15.0 12.5 18.7

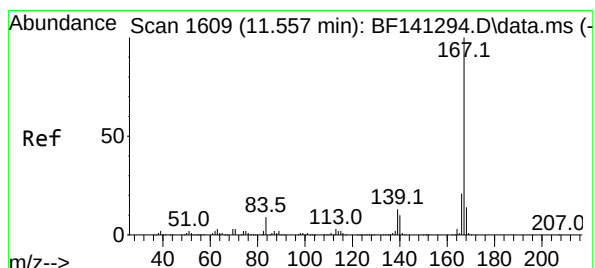
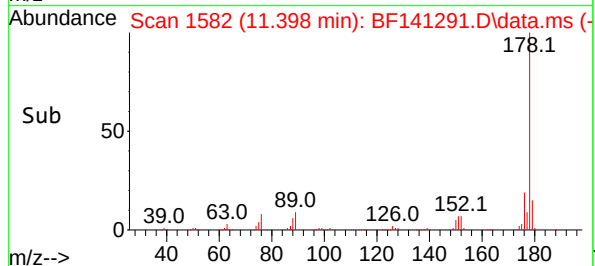
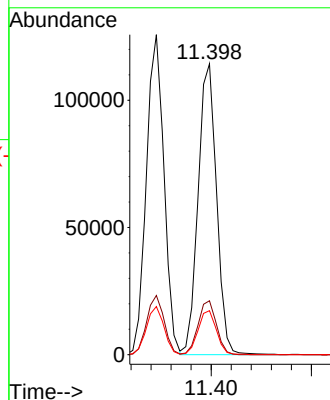
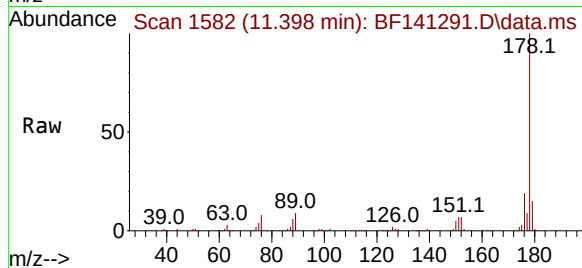




#72
Anthracene
Concen: 5.625 ng
RT: 11.398 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

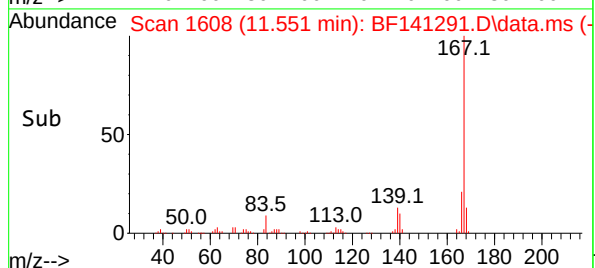
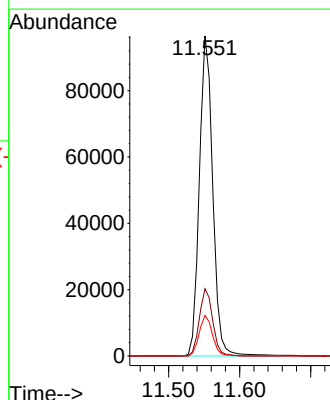
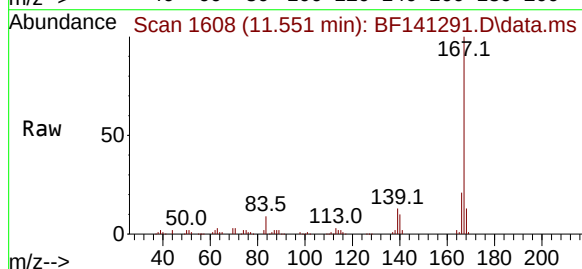
Instrument :
BNA_F
ClientSampleId :
SSTDIC005

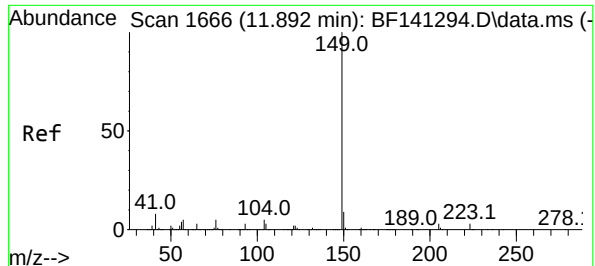
Tgt Ion:178 Resp: 146593
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.6
179 15.1 12.3 18.5



#73
Carbazole
Concen: 5.491 ng
RT: 11.551 min Scan# 1608
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:167 Resp: 126760
Ion Ratio Lower Upper
167 100
166 21.0 17.0 25.6
139 12.6 10.6 16.0

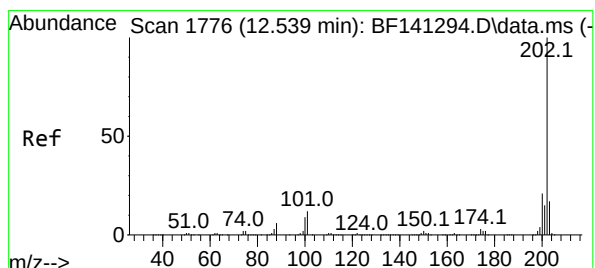
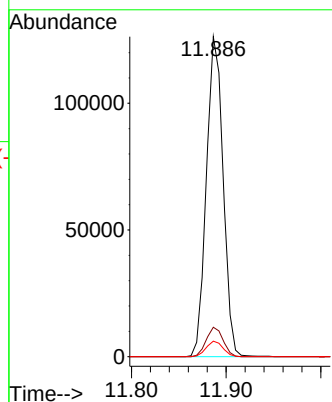
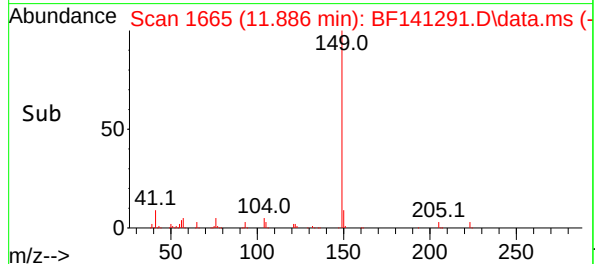
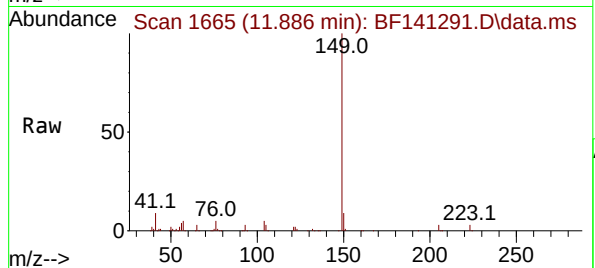




#74
Di-n-butylphthalate
Concen: 5.560 ng
RT: 11.886 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

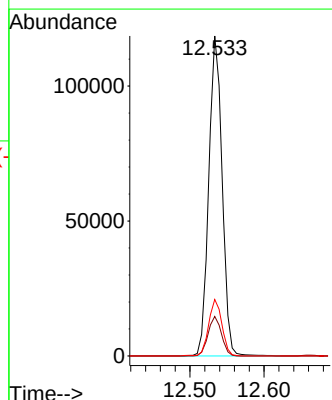
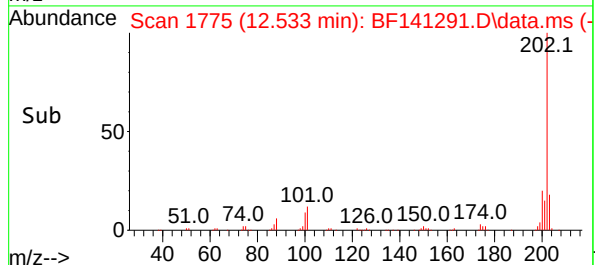
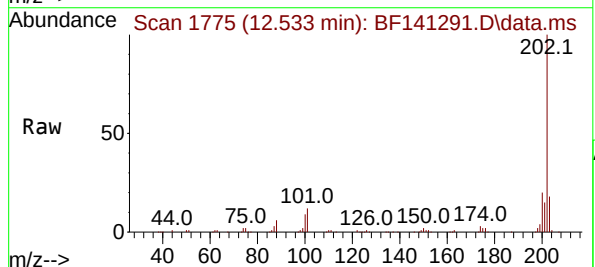
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

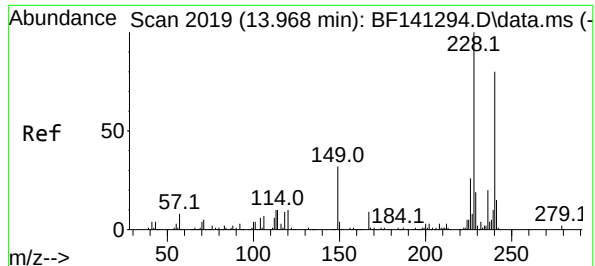
Tgt Ion:149 Resp: 154718
Ion Ratio Lower Upper
149 100
150 9.2 7.4 11.2
104 4.9 3.9 5.9



#75
Fluoranthene
Concen: 5.696 ng
RT: 12.533 min Scan# 1775
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:202 Resp: 148553
Ion Ratio Lower Upper
202 100
101 12.4 0.0 31.7
203 17.6 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.963 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

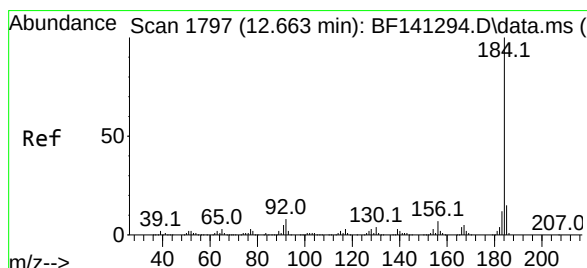
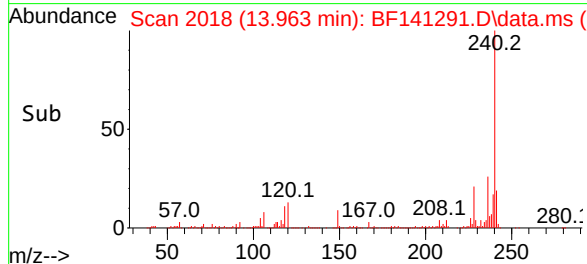
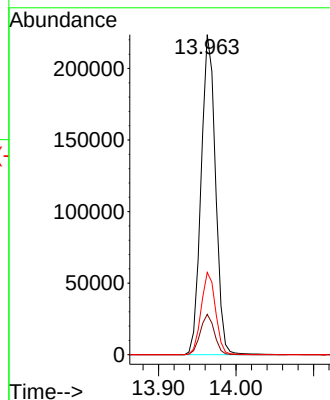
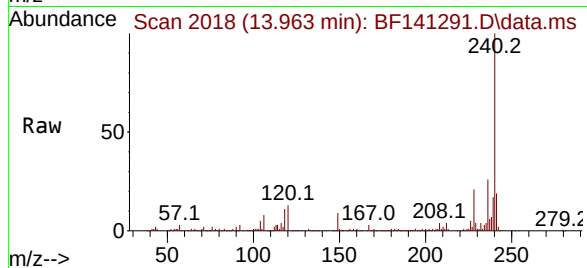
Tgt Ion:240 Resp: 288657

Ion Ratio Lower Upper

240 100

120 12.6 10.0 15.0

236 25.7 19.7 29.5



#77

Benzidine

Concen: 7.253 ng

RT: 12.663 min Scan# 1797

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

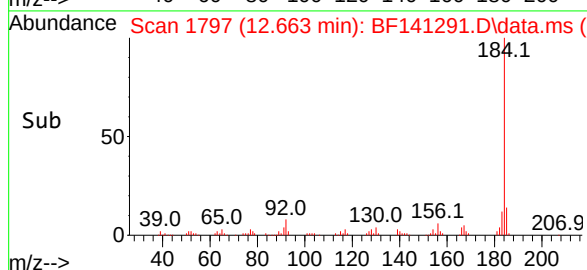
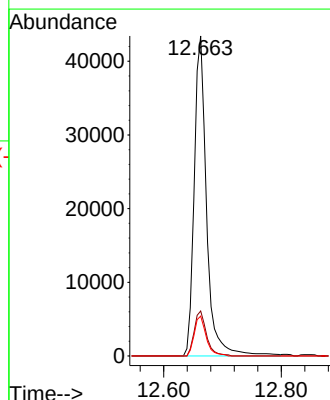
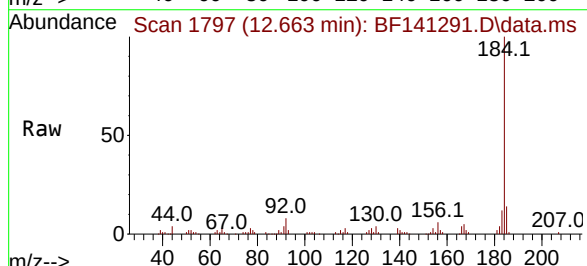
Tgt Ion:184 Resp: 63661

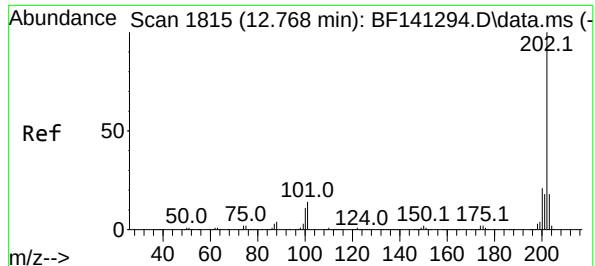
Ion Ratio Lower Upper

184 100

185 14.1 11.9 17.9

183 12.4 9.5 14.3

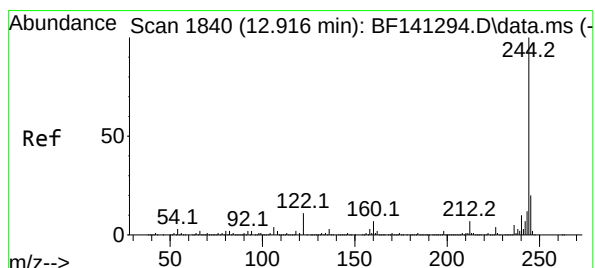
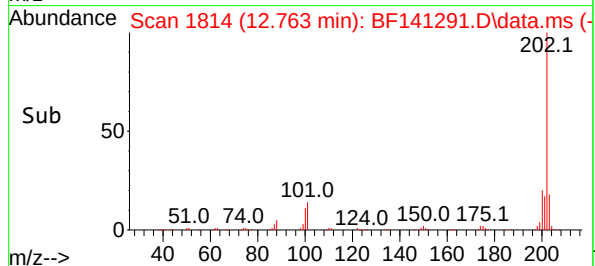
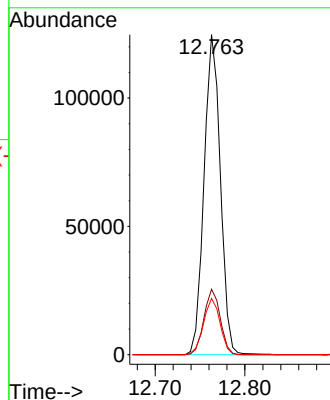
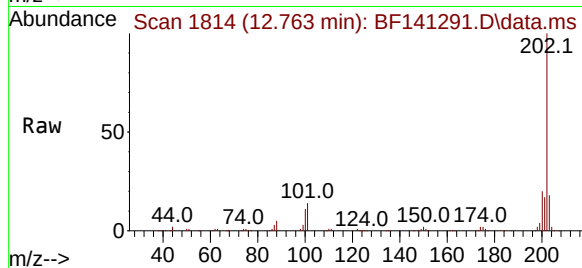




#78
Pyrene
Concen: 5.639 ng
RT: 12.763 min Scan# 1814
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

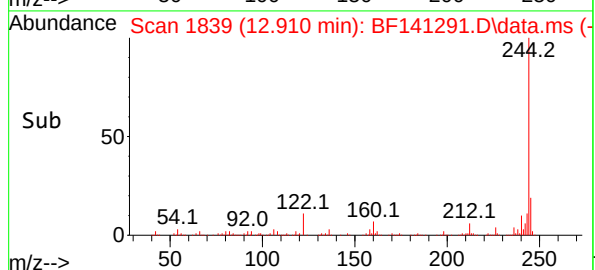
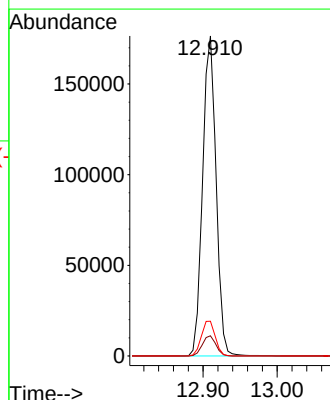
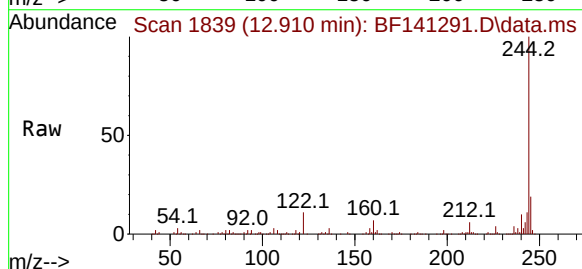
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

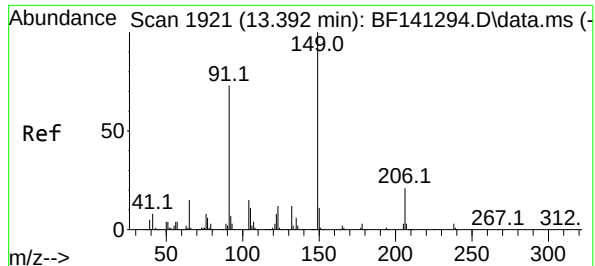
Tgt Ion:202 Resp: 157175
Ion Ratio Lower Upper
202 100
200 20.4 17.0 25.4
203 17.6 14.3 21.5



#79
Terphenyl-d14
Concen: 11.874 ng
RT: 12.910 min Scan# 1839
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:244 Resp: 222747
Ion Ratio Lower Upper
244 100
212 6.3 5.4 8.0
122 10.9 8.8 13.2





#80

Butylbenzylphthalate

Concen: 5.140 ng

RT: 13.386 min Scan# 1921

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDIC005

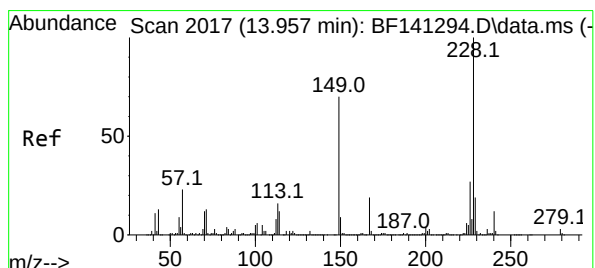
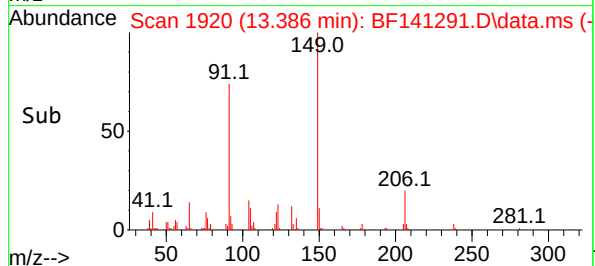
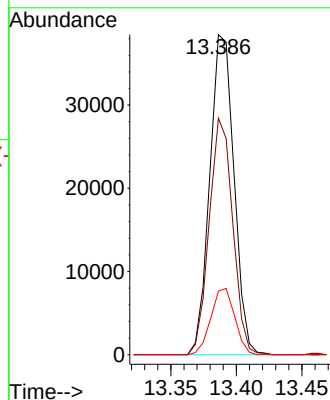
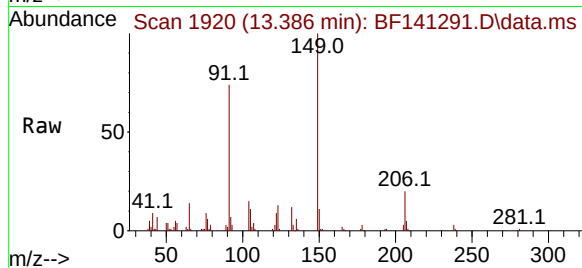
Tgt Ion:149 Resp: 49477

Ion Ratio Lower Upper

149 100

91 73.9 58.6 87.8

206 19.9 16.7 25.1



#81

Benzo(a)anthracene

Concen: 5.588 ng

RT: 13.951 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

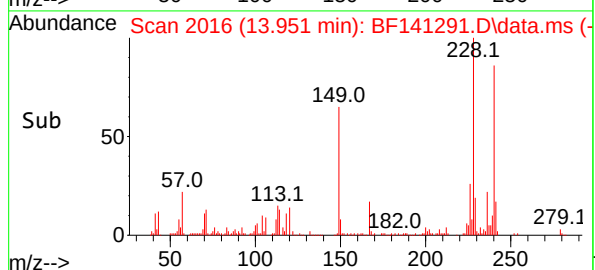
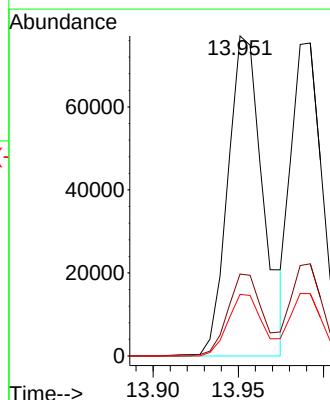
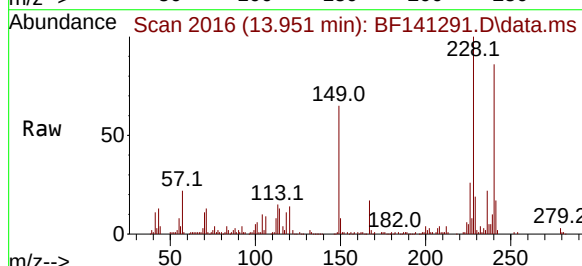
Tgt Ion:228 Resp: 110559

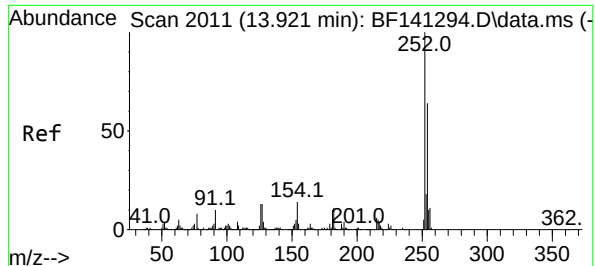
Ion Ratio Lower Upper

228 100

226 25.6 21.4 32.2

229 19.3 15.5 23.3





#82

3,3'-Dichlorobenzidine

Concen: 4.803 ng

RT: 13.922 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

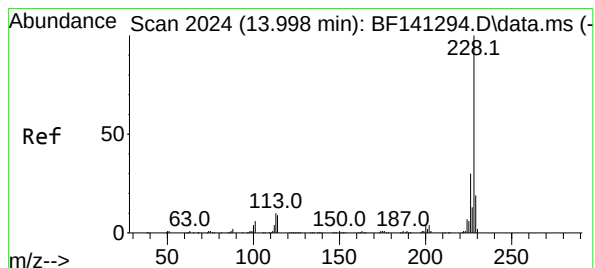
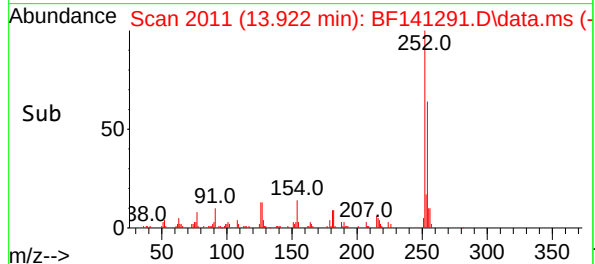
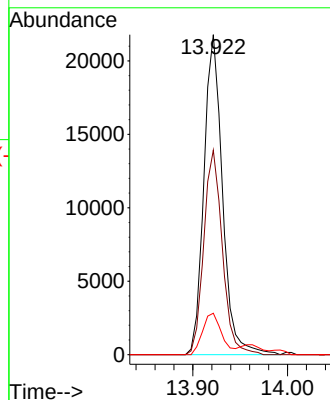
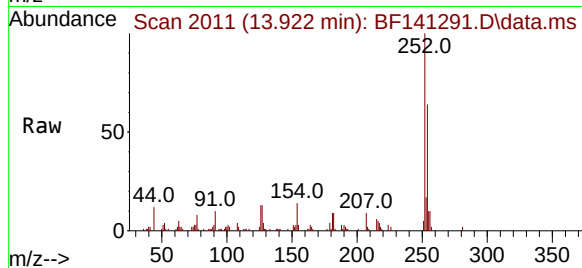
Tgt Ion:252 Resp: 29754

Ion Ratio Lower Upper

252 100

254 63.9 51.3 76.9

126 13.0 10.0 15.0



#83

Chrysene

Concen: 5.238 ng

RT: 13.992 min Scan# 2023

Delta R.T. -0.006 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

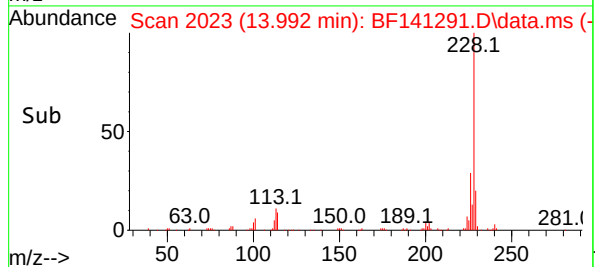
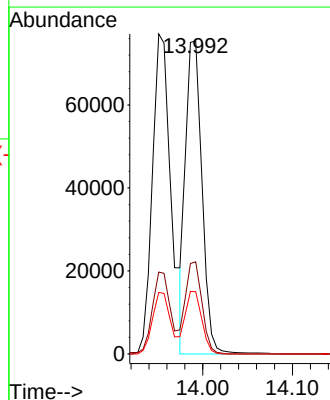
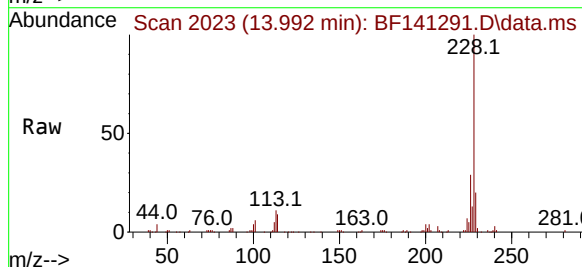
Tgt Ion:228 Resp: 96099

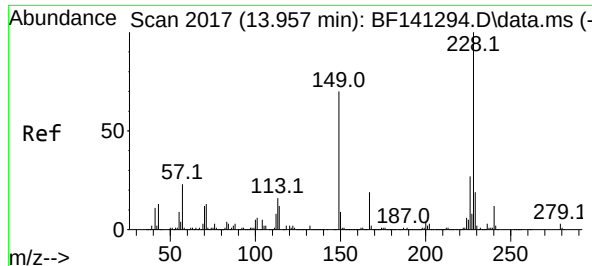
Ion Ratio Lower Upper

228 100

226 29.5 24.1 36.1

229 19.9 15.6 23.4

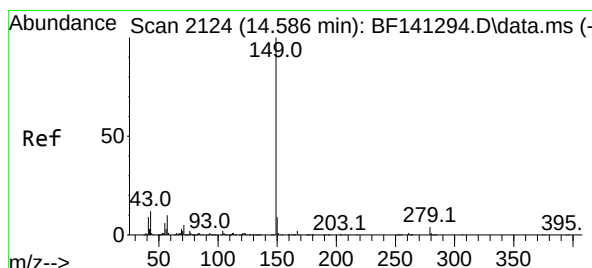
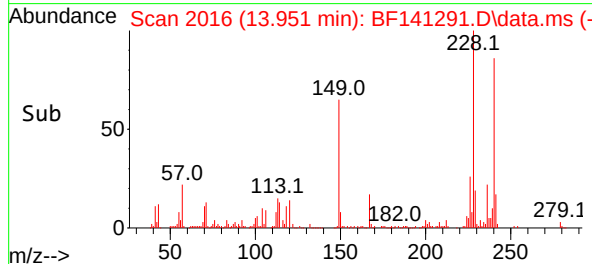
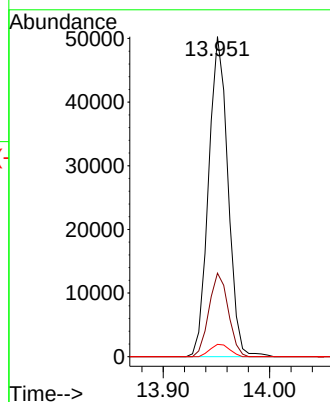
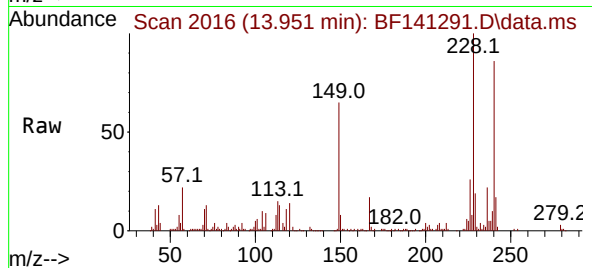




#84
Bis(2-ethylhexyl)phthalate
Concen: 5.269 ng
RT: 13.951 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

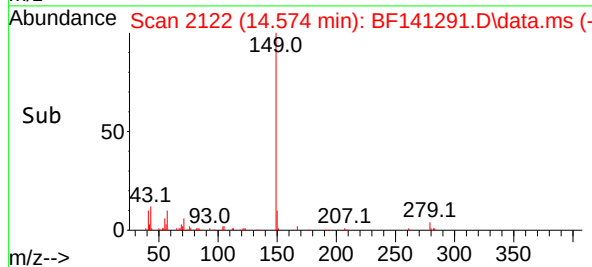
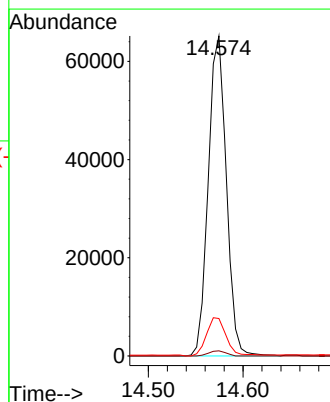
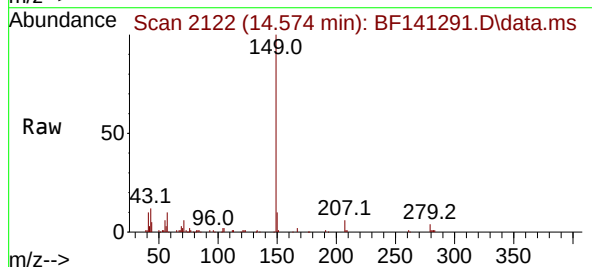
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

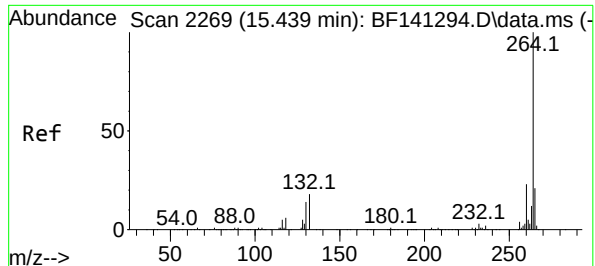
Tgt Ion:149 Resp: 63638
Ion Ratio Lower Upper
149 100
167 26.1 21.8 32.8
279 3.9 3.3 4.9



#85
Di-n-octyl phthalate
Concen: 4.560 ng
RT: 14.574 min Scan# 2122
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:149 Resp: 86163
Ion Ratio Lower Upper
149 100
167 1.5 1.3 1.9
43 13.3 9.8 14.8

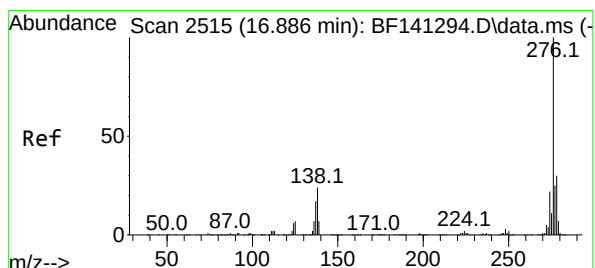
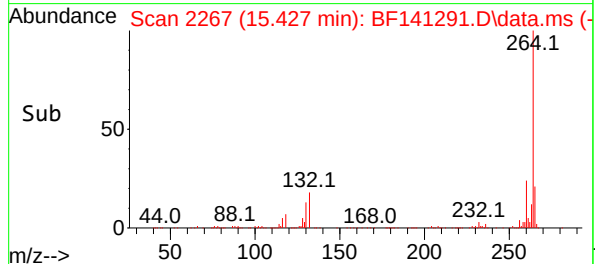
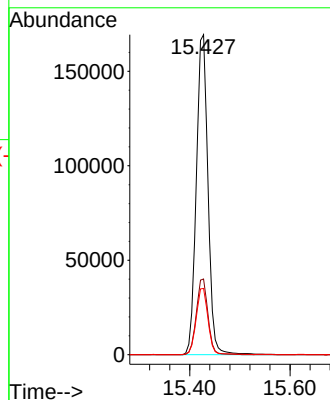
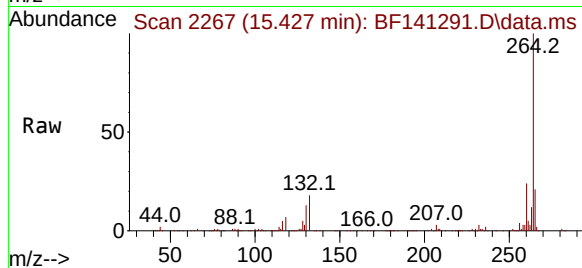




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 2111
Delta R.T. -0.011 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

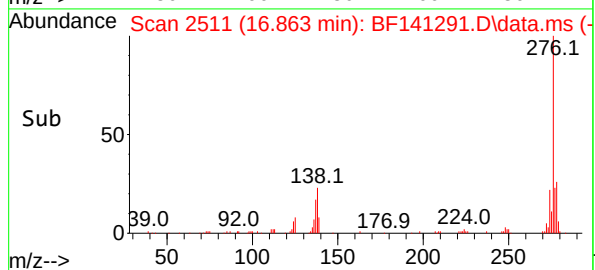
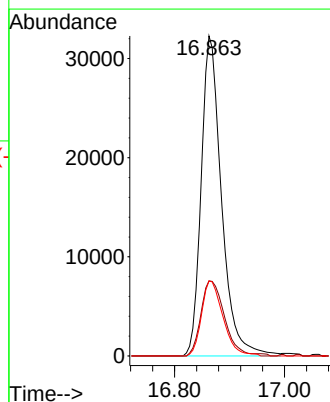
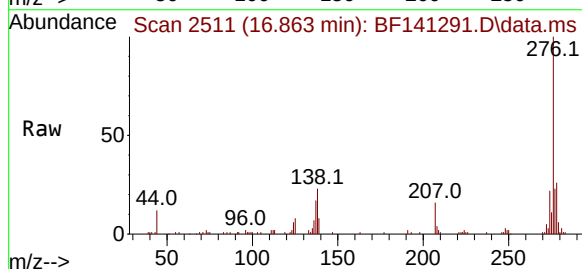
Instrument :
BNA_F
ClientSampleId :
SSTDICC005

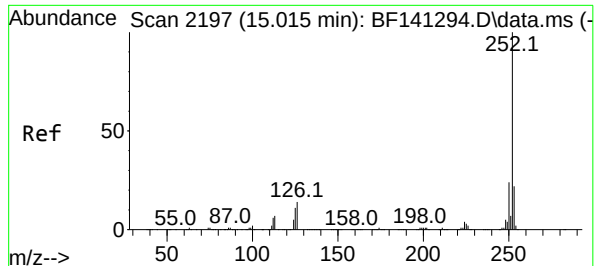
Tgt Ion:264 Resp: 273117
Ion Ratio Lower Upper
264 100
260 23.6 18.6 27.8
265 20.7 16.7 25.1



#87
Indeno(1,2,3-cd)pyrene
Concen: 4.657 ng
RT: 16.863 min Scan# 2511
Delta R.T. -0.023 min
Lab File: BF141291.D
Acq: 29 Jan 2025 10:56

Tgt Ion:276 Resp: 83074
Ion Ratio Lower Upper
276 100
138 27.3 21.7 32.5
277 24.7 20.3 30.5





#88

Benzo(b)fluoranthene

Concen: 5.465 ng

RT: 14.998 min Scan# 2194

Delta R.T. -0.017 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

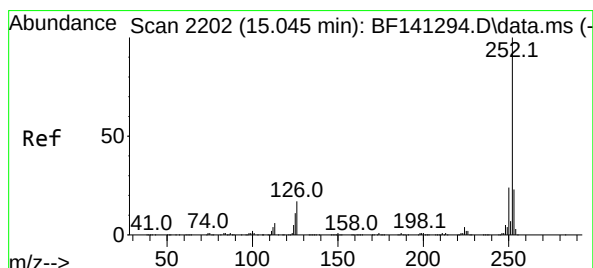
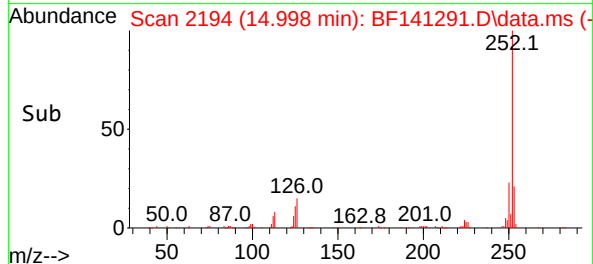
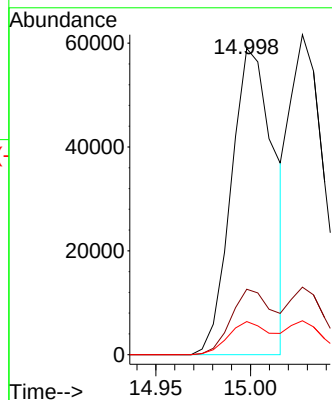
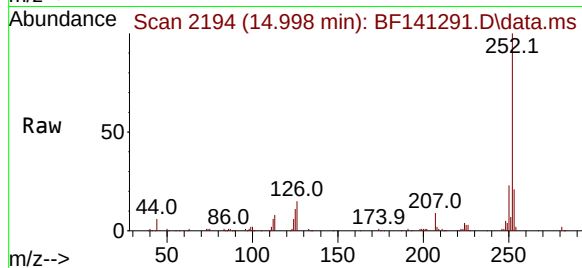
Tgt Ion:252 Resp: 92690

Ion Ratio Lower Upper

252 100

253 21.4 17.4 26.2

125 10.8 8.6 12.8



#89

Benzo(k)fluoranthene

Concen: 5.247 ng

RT: 15.027 min Scan# 2199

Delta R.T. -0.017 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

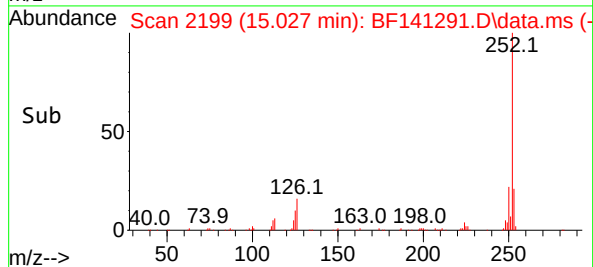
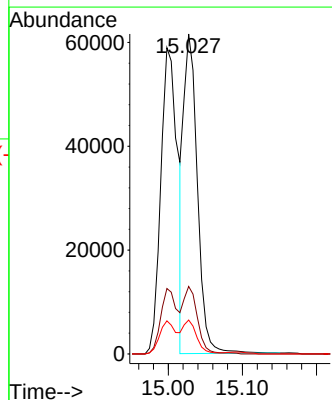
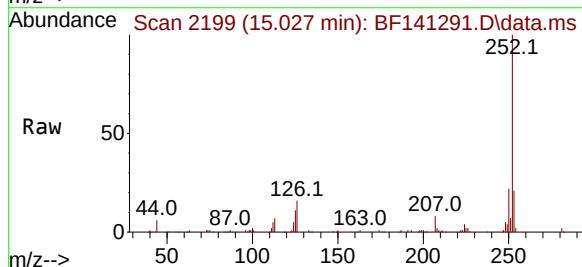
Tgt Ion:252 Resp: 79701

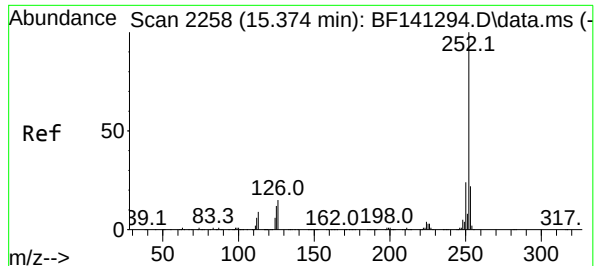
Ion Ratio Lower Upper

252 100

253 21.1 17.6 26.4

125 10.6 8.4 12.6





#90

Benzo(a)pyrene

Concen: 5.268 ng

RT: 15.363 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005

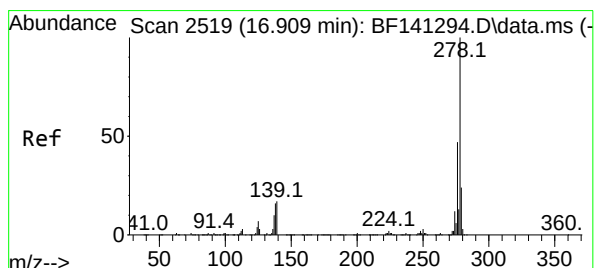
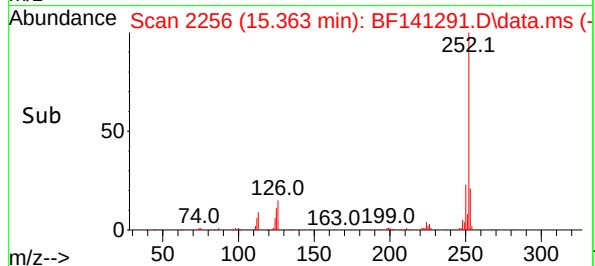
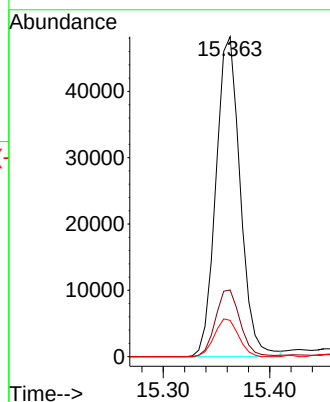
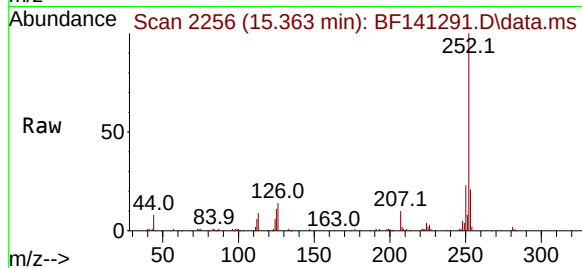
Tgt Ion:252 Resp: 76368

Ion Ratio Lower Upper

252 100

253 20.9 17.2 25.8

125 11.3 9.4 14.2



#91

Dibenzo(a,h)anthracene

Concen: 4.615 ng

RT: 16.886 min Scan# 2515

Delta R.T. -0.023 min

Lab File: BF141291.D

Acq: 29 Jan 2025 10:56

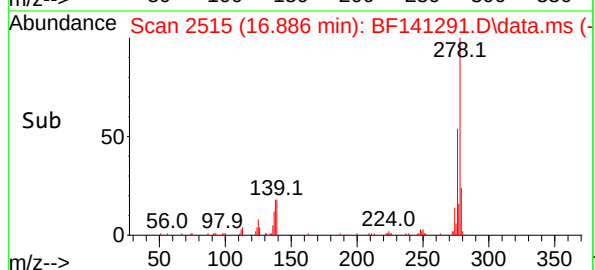
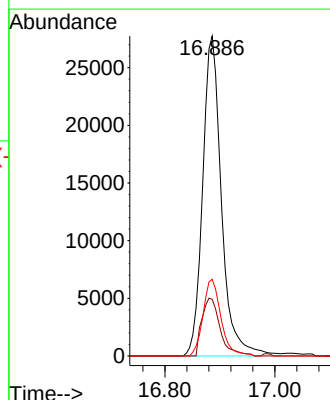
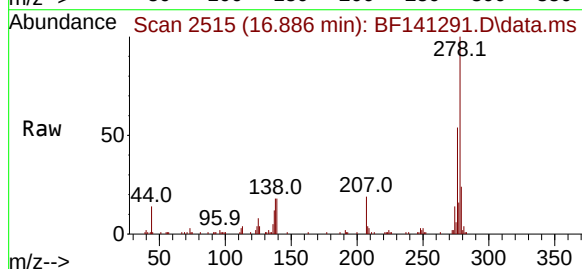
Tgt Ion:278 Resp: 65991

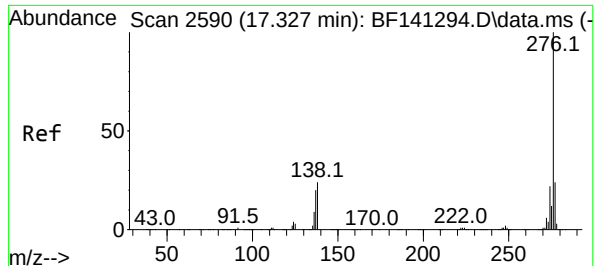
Ion Ratio Lower Upper

278 100

139 17.7 13.9 20.9

279 24.0 18.8 28.2





#92

Benzo(g,h,i)perylene

Concen: 4.591 ng

RT: 17.298 min Scan# 21

Delta R.T. -0.029 min

Lab File: BF141291.D

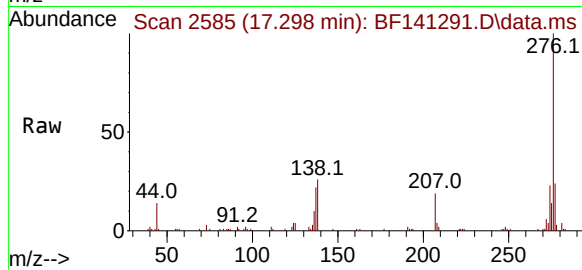
Acq: 29 Jan 2025 10:56

Instrument :

BNA_F

ClientSampleId :

SSTDICC005



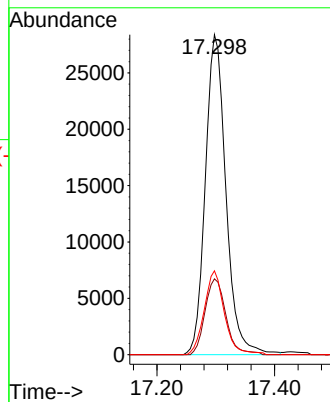
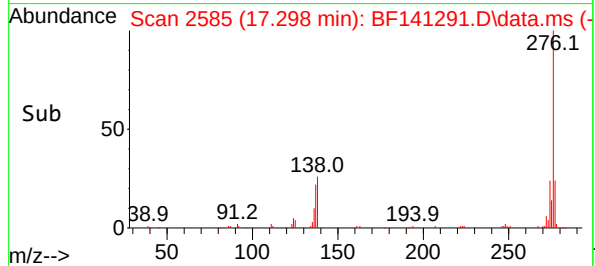
Tgt Ion:276 Resp: 69049

Ion Ratio Lower Upper

276 100

277 23.7 19.2 28.8

138 26.2 19.0 28.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
 Data File : BF141292.D
 Acq On : 29 Jan 2025 11:49
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 16:29:06 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 16:24:35 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	132200	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	533326	20.000	ng	0.00
39) Acenaphthene-d10	9.834	164	289559	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	510795	20.000	ng	0.00
76) Chrysene-d12	13.969	240	308114	20.000	ng	0.00
86) Perylene-d12	15.433	264	280028	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.399	112	183846	21.507	ng	0.00
7) Phenol-d6	6.416	99	237908	21.836	ng	-0.01
23) Nitrobenzene-d5	7.357	82	211040	20.937	ng	0.00
42) 2,4,6-Tribromophenol	10.622	330	57417	21.761	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	423852	22.581	ng	0.00
79) Terphenyl-d14	12.910	244	434781	21.713	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.487	88	39830	10.497	ng	98
3) Pyridine	3.222	79	93176	10.267	ng	99
4) n-Nitrosodimethylamine	3.152	42	52157	10.036	ng	98
6) Aniline	6.457	93	99872	10.968	ng	99
8) 2-Chlorophenol	6.581	128	99805	10.871	ng	95
9) Benzaldehyde	6.346	77	74679	11.803	ng	99
10) Phenol	6.434	94	124196	10.775	ng	96
11) bis(2-Chloroethyl)ether	6.528	93	93367	10.533	ng	99
12) 1,3-Dichlorobenzene	6.740	146	110278	10.891	ng	98
13) 1,4-Dichlorobenzene	6.816	146	109956	10.784	ng	99
14) 1,2-Dichlorobenzene	6.969	146	106335	11.160	ng	98
15) Benzyl Alcohol	6.934	79	79378	10.665	ng	98
16) 2,2'-oxybis(1-Chloropr...	7.075	45	164185	10.661	ng	99
17) 2-Methylphenol	7.045	107	77643	10.446	ng	98
18) Hexachloroethane	7.310	117	40445	10.721	ng	99
19) n-Nitroso-di-n-propyla...	7.204	70	70075	10.815	ng	99
20) 3+4-Methylphenols	7.198	107	103360	11.310	ng	95
22) Acetophenone	7.204	105	139527	11.036	ng	98
24) Nitrobenzene	7.375	77	109497	10.474	ng	99
25) Isophorone	7.616	82	182564	10.480	ng	100
26) 2-Nitrophenol	7.692	139	49783	10.167	ng	98
27) 2,4-Dimethylphenol	7.728	122	63681m	10.177	ng	
28) bis(2-Chloroethoxy)met...	7.828	93	117232	10.561	ng	98
29) 2,4-Dichlorophenol	7.934	162	79949	10.457	ng	99
30) 1,2,4-Trichlorobenzene	8.022	180	94419	10.767	ng	98
31) Naphthalene	8.098	128	305386	10.887	ng	99
32) Benzoic acid	7.798	122	47549	8.367	ng	99
33) 4-Chloroaniline	8.151	127	100852	10.703	ng	98
34) Hexachlorobutadiene	8.222	225	55103	10.736	ng	99
35) Caprolactam	8.481	113	25363	10.256	ng	100
36) 4-Chloro-3-methylphenol	8.622	107	87592	10.674	ng	98
37) 2-Methylnaphthalene	8.792	142	195160	10.925	ng	99
38) 1-Methylnaphthalene	8.892	142	192861	11.022	ng	100
40) 1,2,4,5-Tetrachloroben...	8.957	216	88710	10.775	ng	99
41) Hexachlorocyclopentadiene	8.945	237	22759	9.212	ng	98
43) 2,4,6-Trichlorophenol	9.069	196	55036	10.241	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
 Data File : BF141292.D
 Acq On : 29 Jan 2025 11:49
 Operator : RC/JU
 Sample : SSTDICC010
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 16:29:06 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 16:24:35 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.104	196	61493	10.518	ng	100
46) 1,1'-Biphenyl	9.257	154	245028	10.847	ng	99
47) 2-Chloronaphthalene	9.281	162	189709	10.812	ng	98
48) 2-Nitroaniline	9.375	65	56247	10.164	ng	99
49) Acenaphthylene	9.692	152	268471	10.895	ng	99
50) Dimethylphthalate	9.551	163	210816	10.857	ng	100
51) 2,6-Dinitrotoluene	9.616	165	47955	10.613	ng	97
52) Acenaphthene	9.869	154	188283	10.738	ng	100
53) 3-Nitroaniline	9.781	138	47818	10.699	ng	95
54) 2,4-Dinitrophenol	9.892	184	14749	6.925	ng	98
55) Dibenzofuran	10.039	168	258832	11.038	ng	99
56) 4-Nitrophenol	9.939	139	31196	9.722	ng	98
57) 2,4-Dinitrotoluene	10.016	165	62418	10.710	ng	99
58) Fluorene	10.381	166	204141	11.197	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.157	232	49596	10.737	ng	100
60) Diethylphthalate	10.257	149	205131	10.908	ng	99
61) 4-Chlorophenyl-phenyle...	10.375	204	100485	11.294	ng	100
62) 4-Nitroaniline	10.392	138	45222	10.533	ng	99
63) Azobenzene	10.534	77	204300	10.839	ng	99
65) 4,6-Dinitro-2-methylph...	10.422	198	26939	8.831	ng	91
66) n-Nitrosodiphenylamine	10.492	169	174617	10.544	ng	100
67) 4-Bromophenyl-phenylether	10.869	248	59770	10.468	ng	96
68) Hexachlorobenzene	10.928	284	63908	10.551	ng	100
69) Atrazine	11.016	200	51633	9.295	ng	99
70) Pentachlorophenol	11.128	266	34788	9.796	ng	99
71) Phenanthrene	11.345	178	298892	10.893	ng	99
72) Anthracene	11.398	178	292813	10.940	ng	99
73) Carbazole	11.551	167	258853	10.919	ng	99
74) Di-n-butylphthalate	11.886	149	316336	11.070	ng	99
75) Fluoranthene	12.533	202	306969	11.462	ng	99
77) Benzidine	12.657	184	73918	7.890	ng	98
78) Pyrene	12.763	202	317744	10.681	ng	99
80) Butylbenzylphthalate	13.386	149	106335	10.349	ng	99
81) Benzo(a)anthracene	13.957	228	217291	10.289	ng	99
82) 3,3'-Dichlorobenzidine	13.922	252	65021	9.833	ng	99
83) Chrysene	13.992	228	204080	10.421	ng	100
84) Bis(2-ethylhexyl)phtha...	13.951	149	139099	10.789	ng	99
85) Di-n-octyl phthalate	14.580	149	195129	9.676	ng	99
87) Indeno(1,2,3-cd)pyrene	16.874	276	177554	9.708	ng	100
88) Benzo(b)fluoranthene	15.010	252	193558	11.130	ng	99
89) Benzo(k)fluoranthene	15.039	252	155925	10.012	ng	99
90) Benzo(a)pyrene	15.374	252	148214	9.972	ng	100
91) Dibenzo(a,h)anthracene	16.898	278	140143	9.559	ng	99
92) Benzo(g,h,i)perylene	17.315	276	150453	9.756	ng	99

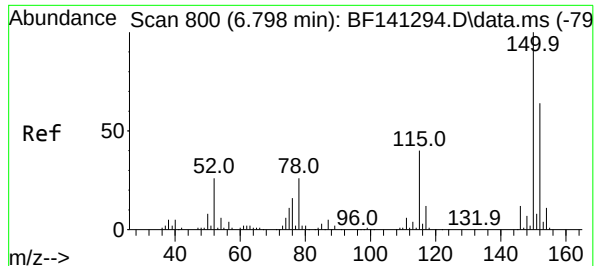
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Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Manual Integrations APPROVED

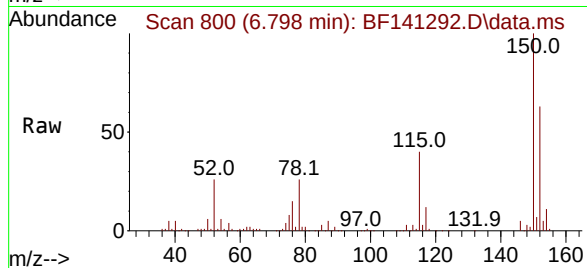
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

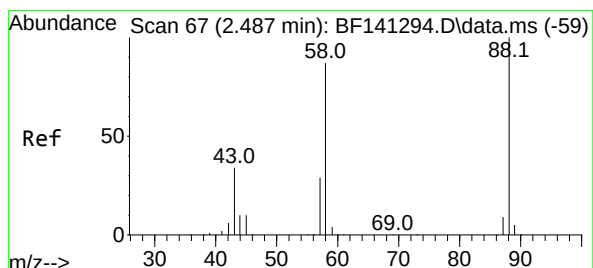
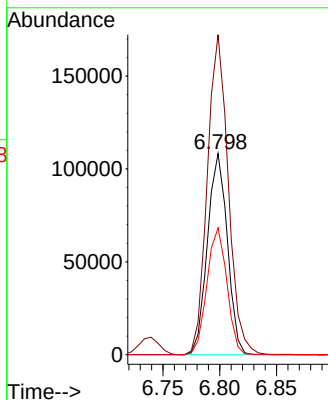
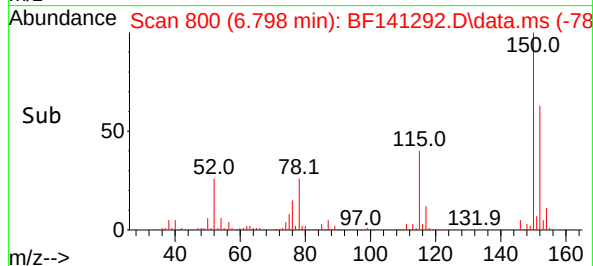
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:152 Resp: 132200
Ion Ratio Lower Upper
152 100
150 159.1 125.9 188.9
115 63.1 49.7 74.5

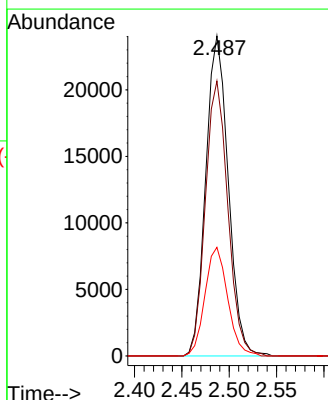
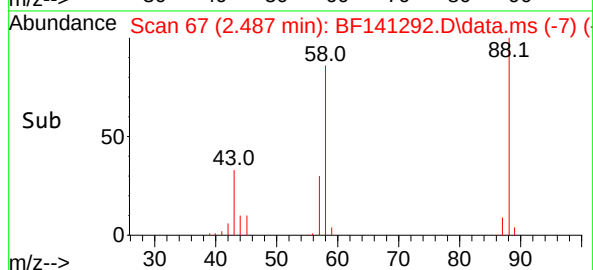
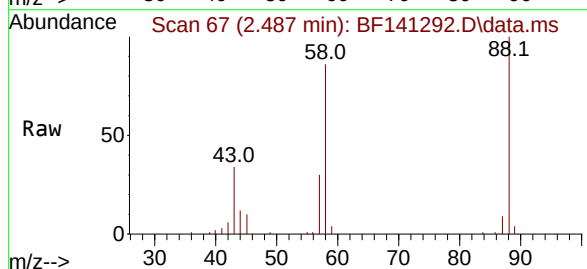
Manual Integrations
APPROVED

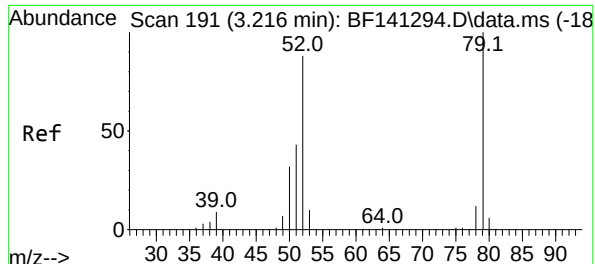
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#2
1,4-Dioxane
Concen: 10.497 ng
RT: 2.487 min Scan# 67
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

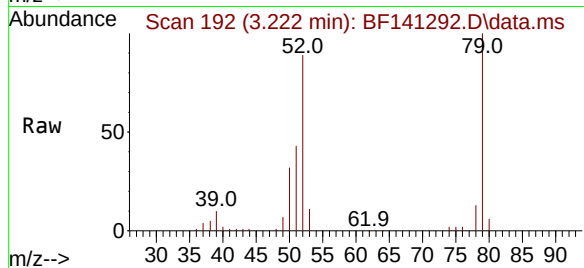
Tgt Ion: 88 Resp: 39830
Ion Ratio Lower Upper
88 100
58 85.5 70.2 105.4
43 34.3 27.6 41.4





#3
Pyridine
Concen: 10.267 ng
RT: 3.222 min Scan# 191
Delta R.T. 0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

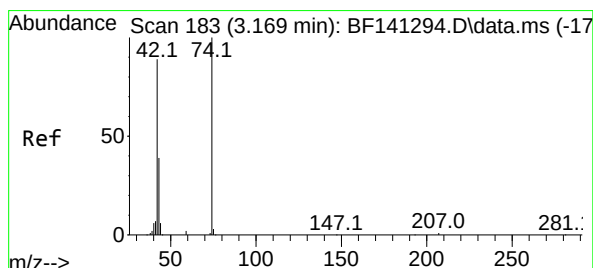
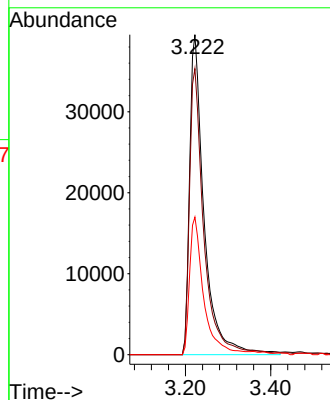
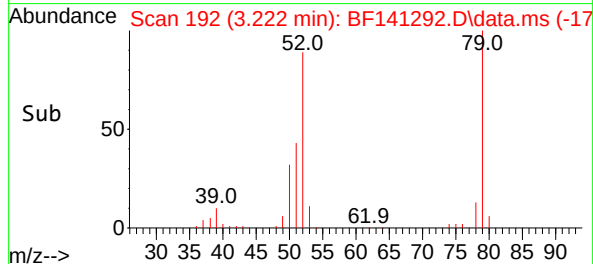
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



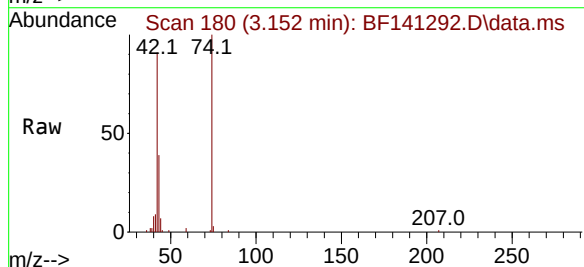
Tgt Ion: 79 Resp: 93170
Ion Ratio Lower Upper
79 100
52 89.4 70.3 105.5
51 43.0 34.3 51.5

Manual Integrations
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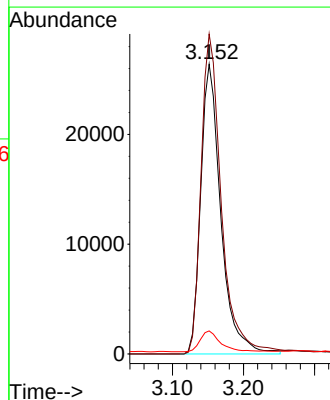
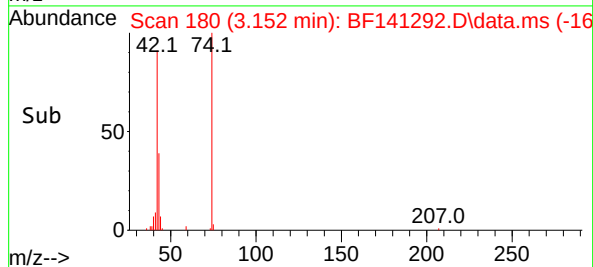
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

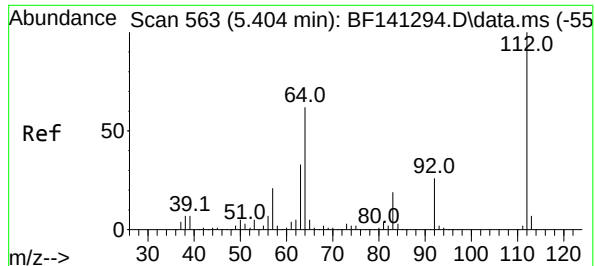


#4
n-Nitrosodimethylamine
Concen: 10.036 ng
RT: 3.152 min Scan# 180
Delta R.T. -0.017 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49



Tgt Ion: 42 Resp: 52157
Ion Ratio Lower Upper
42 100
74 110.5 90.3 135.5
44 8.0 5.7 8.5





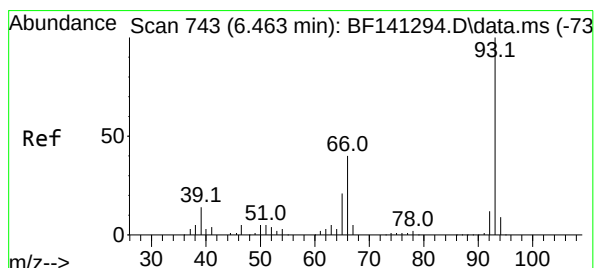
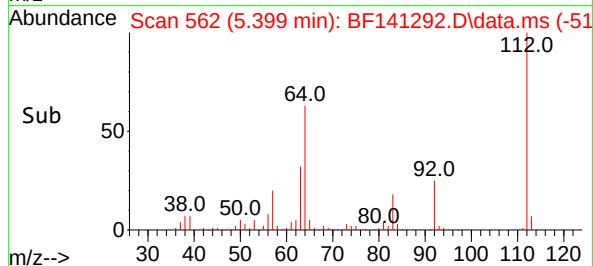
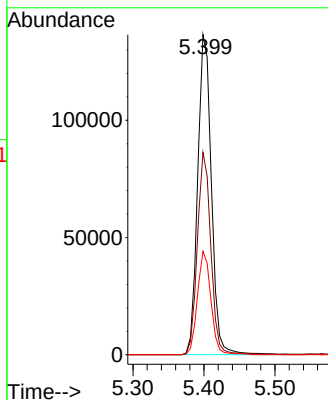
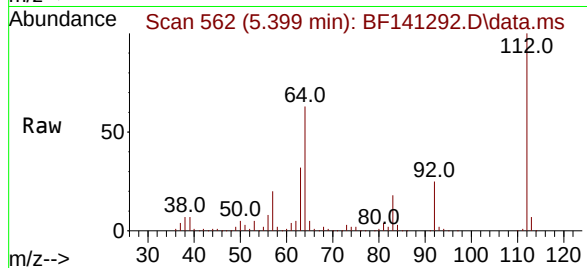
#5
2-Fluorophenol
Concen: 21.507 ng
RT: 5.399 min Scan# 50
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:112 Resp: 183840
Ion Ratio Lower Upper
112 100
64 63.2 49.8 74.8
63 32.3 26.1 39.1

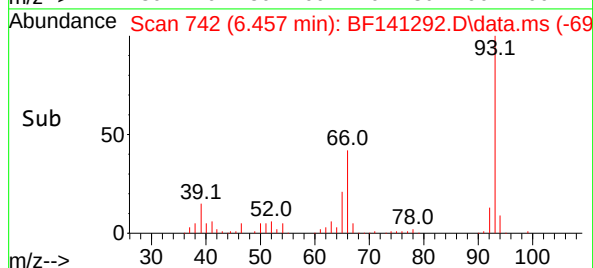
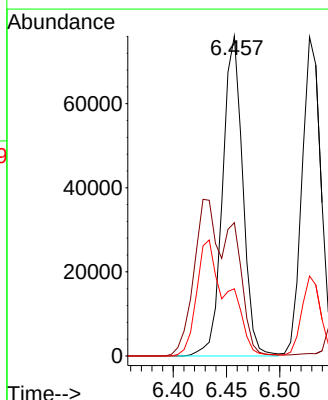
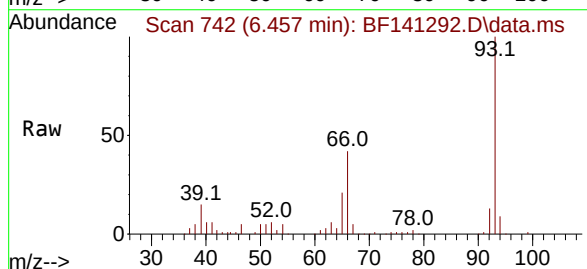
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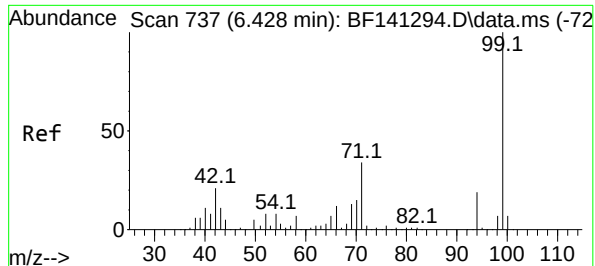
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#6
Aniline
Concen: 10.968 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 93 Resp: 99872
Ion Ratio Lower Upper
93 100
66 41.7 32.5 48.7
65 21.0 17.0 25.6





#7

Phenol-d6

Concen: 21.836 ng

RT: 6.416 min Scan# 71

Delta R.T. -0.012 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion: 99 Resp: 237908

Ion Ratio Lower Upper

99 100

42 20.8 17.1 25.7

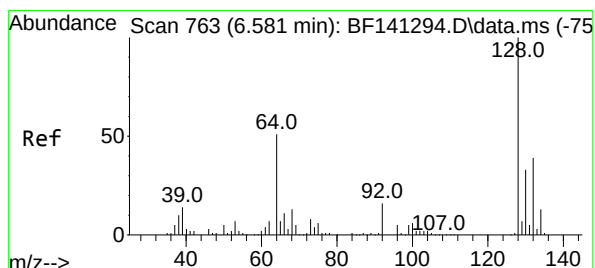
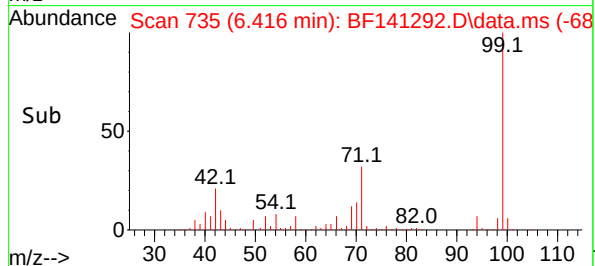
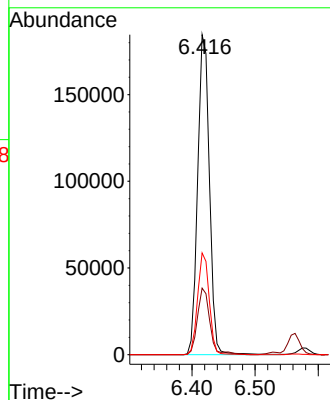
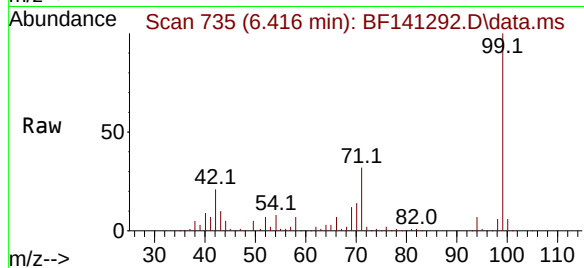
71 31.8 26.9 40.3

Manual Integrations

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#8

2-Chlorophenol

Concen: 10.871 ng

RT: 6.581 min Scan# 763

Delta R.T. 0.000 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

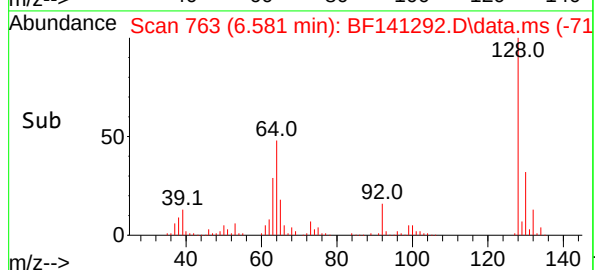
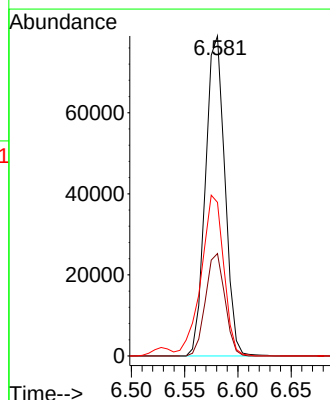
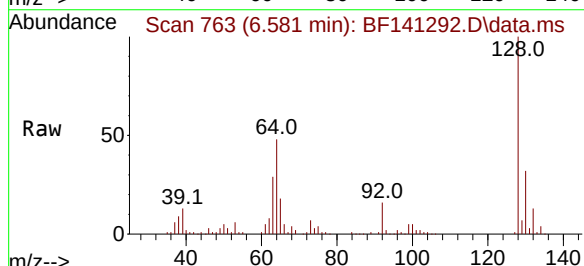
Tgt Ion:128 Resp: 99805

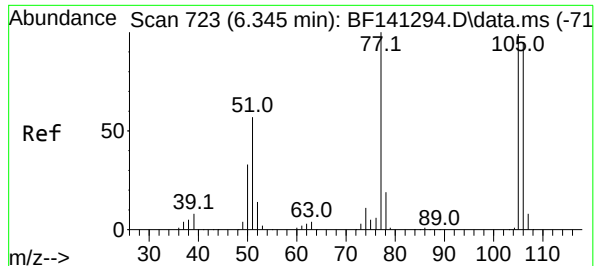
Ion Ratio Lower Upper

128 100

130 32.0 12.5 52.5

64 48.0 32.9 72.9



#9
Benzaldehyde

Concen: 11.803 ng

RT: 6.346 min Scan# 71

Delta R.T. 0.000 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

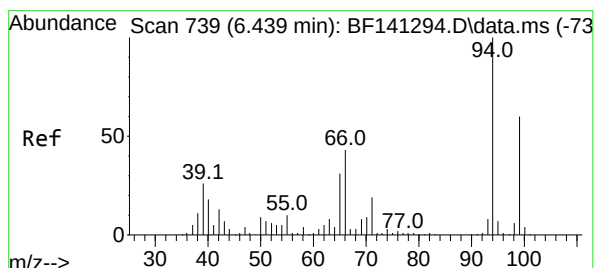
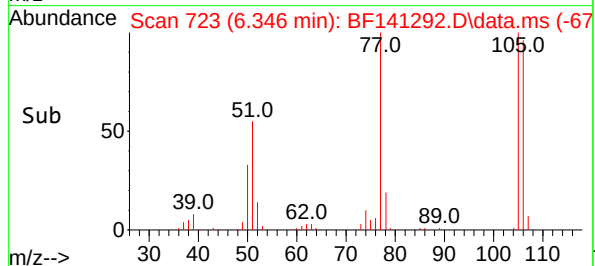
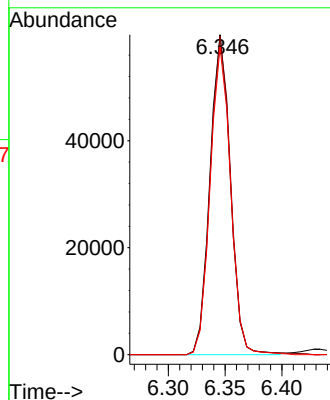
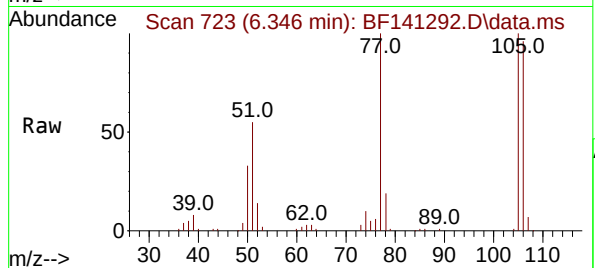
Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion	Ratio	Lower	Upper
77	100		
105	99.6	79.4	119.4
106	96.1	74.6	114.6

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Supervised By :mohammad ahmed 02/04/2025

#10

Phenol

Concen: 10.775 ng

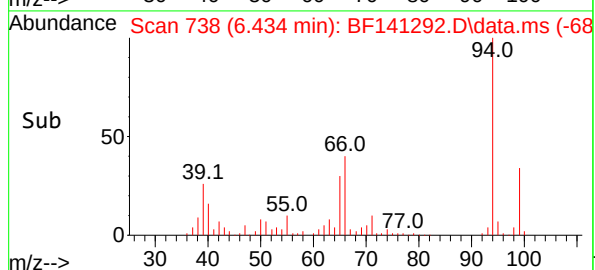
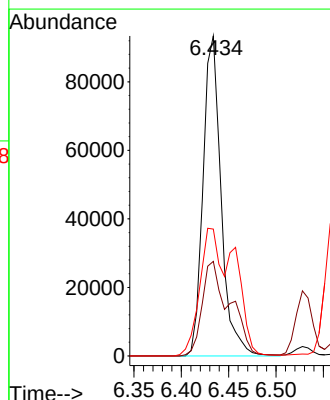
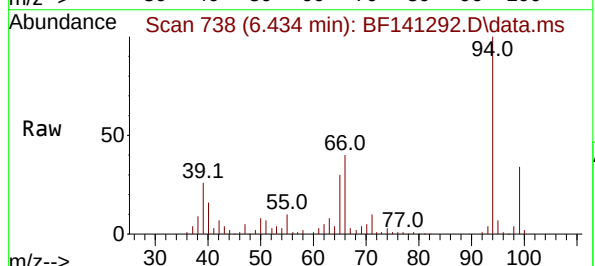
RT: 6.434 min Scan# 738

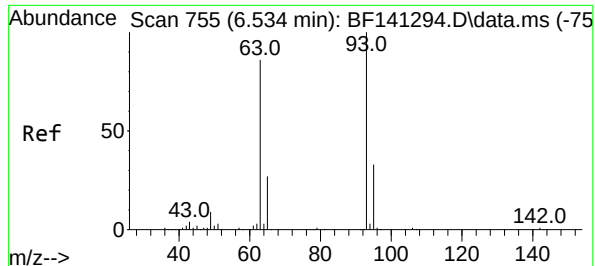
Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Tgt Ion	Ratio	Lower	Upper
94	100		
65	29.5	10.8	50.8
66	39.7	23.3	63.3





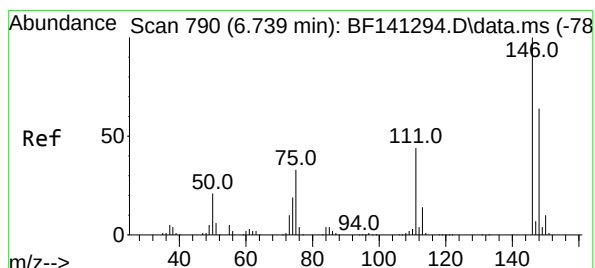
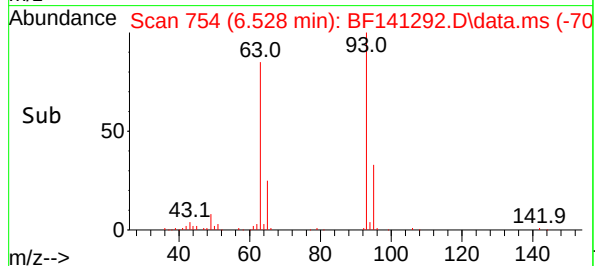
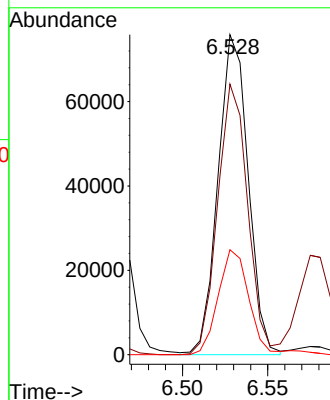
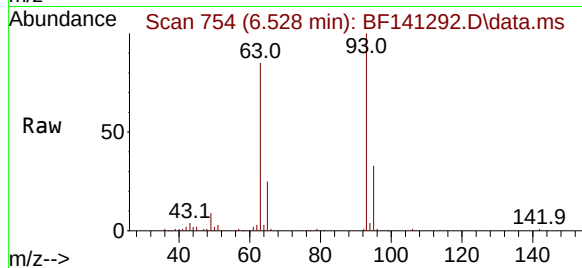
#11
bis(2-Chloroethyl)ether
Concen: 10.533 ng
RT: 6.528 min Scan# 754
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 93 Resp: 9336
Ion Ratio Lower Upper
93 100
63 84.6 65.0 105.0
95 32.8 12.4 52.4

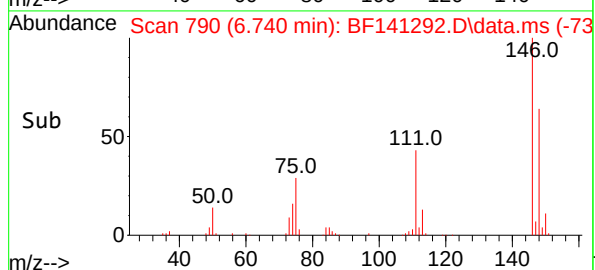
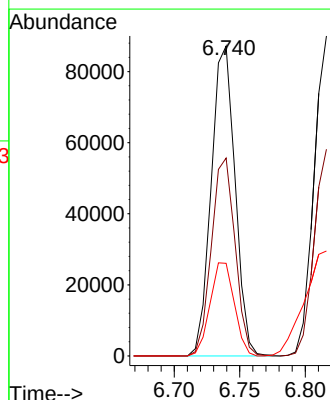
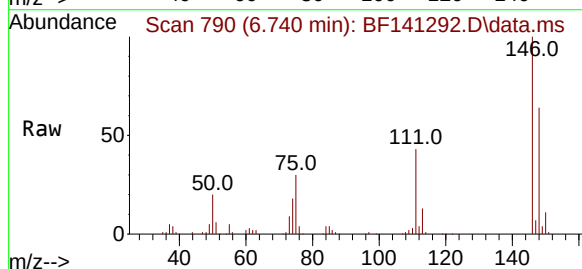
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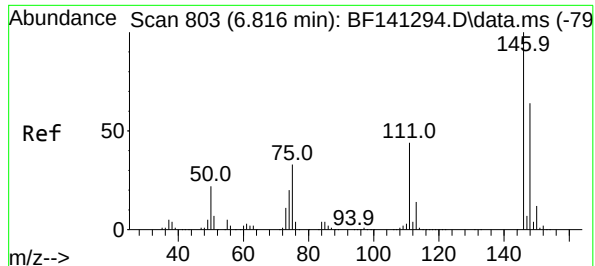
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#12
1,3-Dichlorobenzene
Concen: 10.891 ng
RT: 6.740 min Scan# 790
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:146 Resp: 110278
Ion Ratio Lower Upper
146 100
148 63.8 51.2 76.8
75 29.9 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 10.784 ng

RT: 6.816 min Scan# 803

Delta R.T. 0.000 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDIC010

Tgt Ion:146 Resp: 109950

Ion Ratio Lower Upper

146 100

148 64.6 51.2 76.8

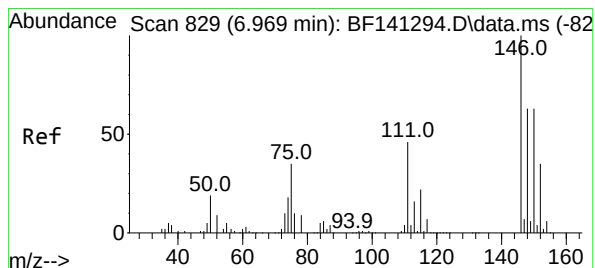
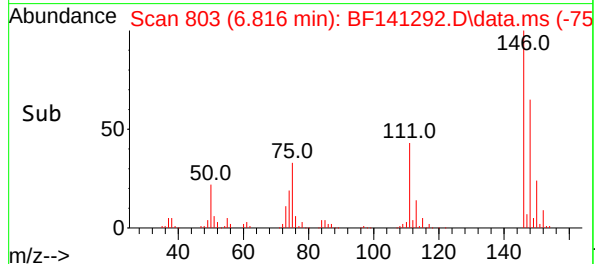
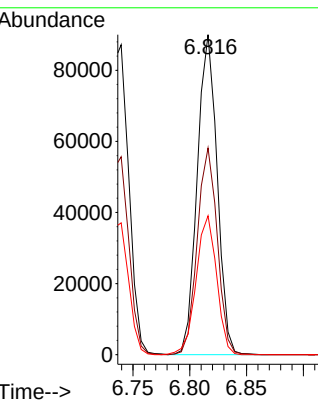
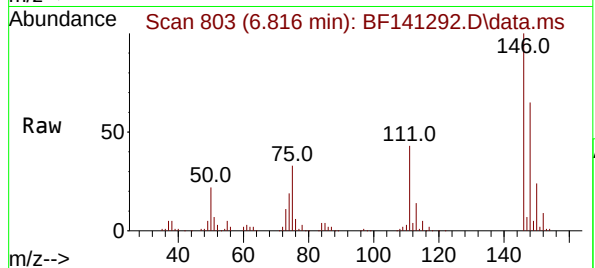
111 43.4 35.0 52.4

Manual Integrations

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#14

1,2-Dichlorobenzene

Concen: 11.160 ng

RT: 6.969 min Scan# 829

Delta R.T. 0.000 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

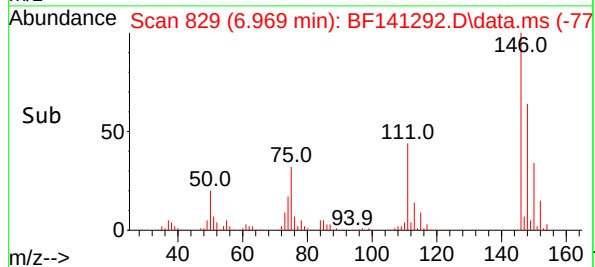
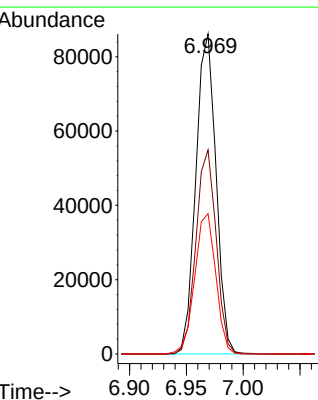
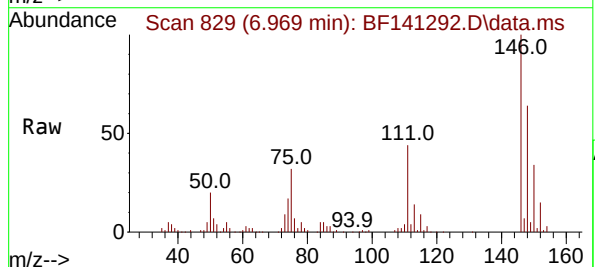
Tgt Ion:146 Resp: 106335

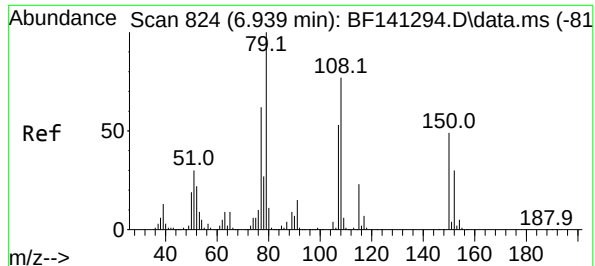
Ion Ratio Lower Upper

146 100

148 63.8 50.5 75.7

111 43.8 36.6 55.0





#15

Benzyl Alcohol

Concen: 10.665 ng

RT: 6.934 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

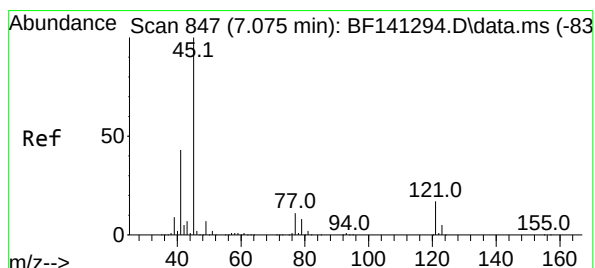
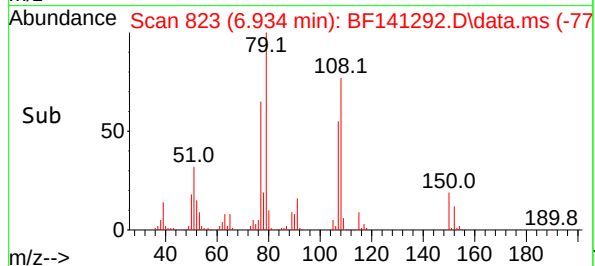
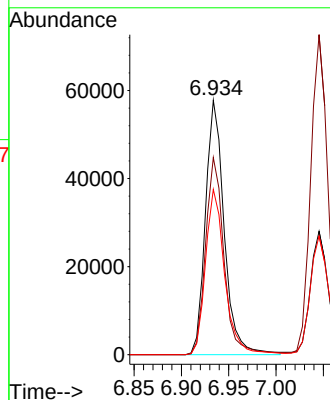
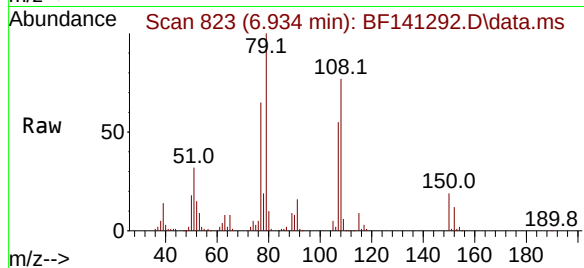
ClientSampleId :

SSTDICC010

Tgt Ion: 79	Resp: 79378
Ion Ratio	Lower Upper
79	100
108	77.5 61.4 92.0
77	65.0 49.9 74.9

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Supervised By :mohammad ahmed 02/04/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 10.661 ng

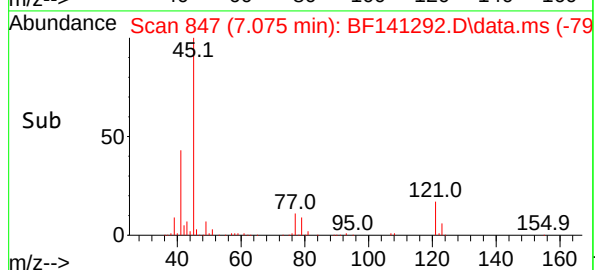
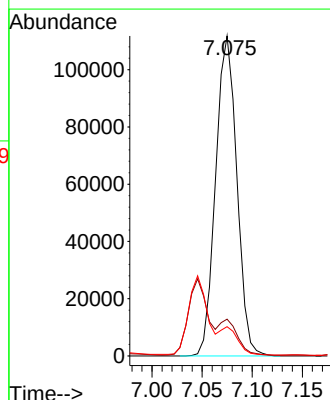
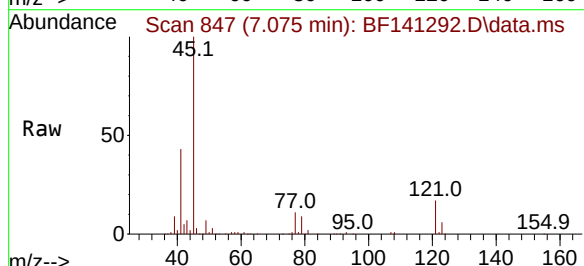
RT: 7.075 min Scan# 847

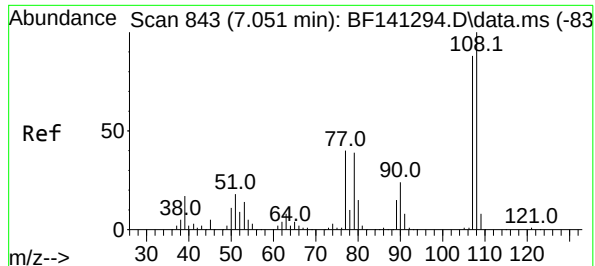
Delta R.T. 0.000 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

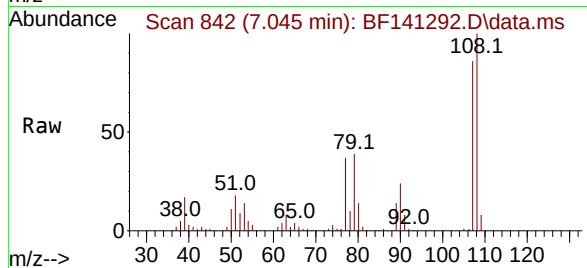
Tgt Ion: 45	Resp: 164185
Ion Ratio	Lower Upper
45	100
77	11.5 0.0 31.8
79	9.2 0.0 29.1





#17
2-Methylphenol
Concen: 10.446 ng
RT: 7.045 min Scan# 843
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

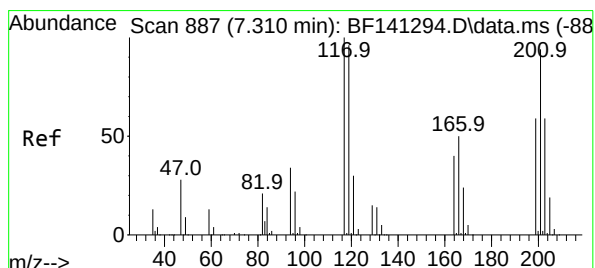
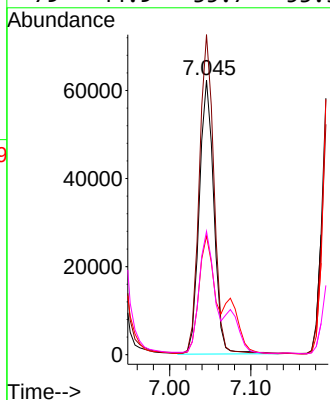
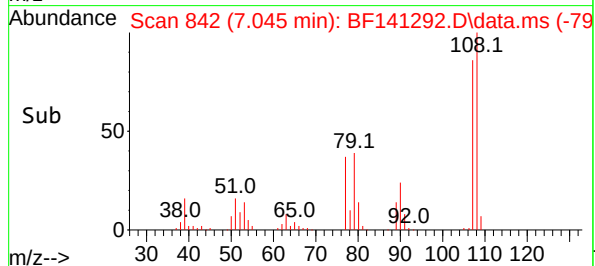
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



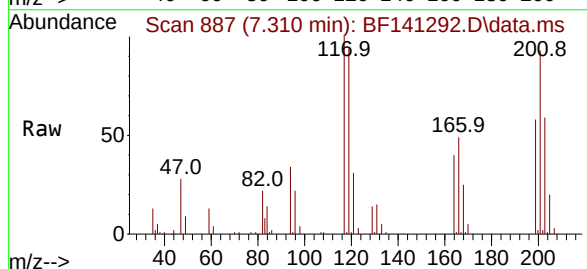
Tgt Ion:107 Resp: 7764
Ion Ratio Lower Upper
107 100
108 116.6 90.8 136.2
77 43.3 36.2 54.4
79 44.9 35.7 53.5

Manual Integrations
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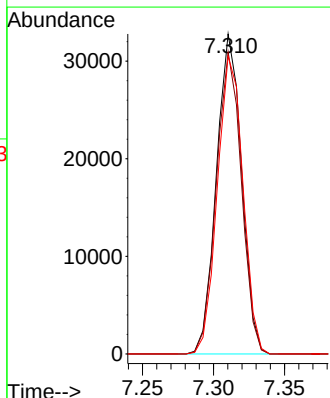
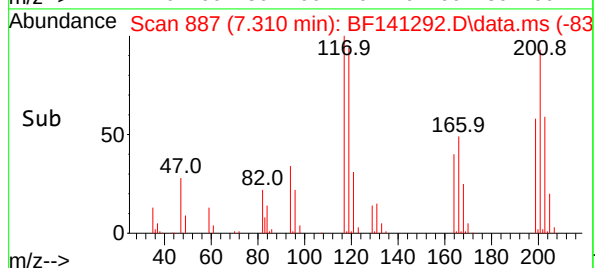
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

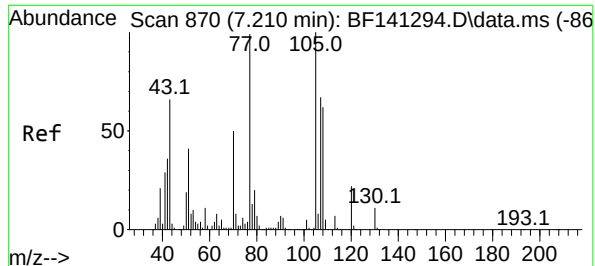


#18
Hexachloroethane
Concen: 10.721 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49



Tgt Ion:117 Resp: 40445
Ion Ratio Lower Upper
117 100
119 94.3 76.6 114.8
201 93.1 74.8 112.2





#19

n-Nitroso-di-n-propylamine

Concen: 10.815 ng

RT: 7.204 min Scan# 80

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion: 70 Resp: 70075

Ion Ratio Lower Upper

70 100

42 69.8 56.8 85.2

101 10.0 7.7 11.5

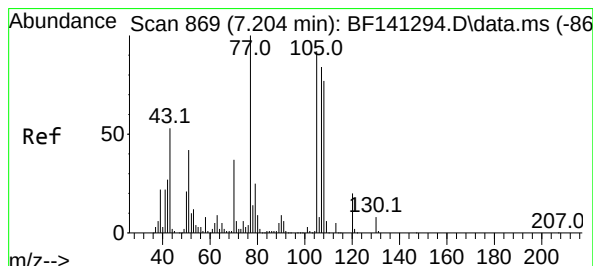
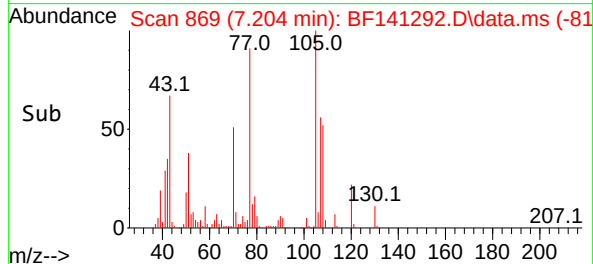
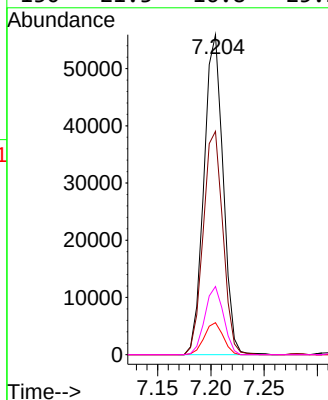
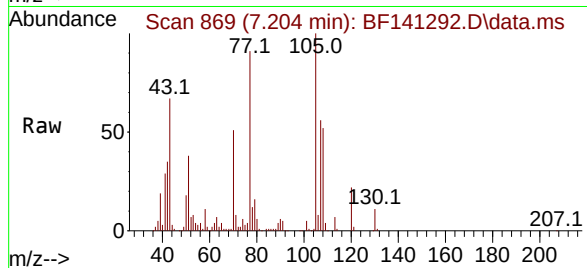
130 21.3 16.8 25.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#20

3+4-Methylphenols

Concen: 11.310 ng

RT: 7.198 min Scan# 868

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Tgt Ion:107 Resp: 103360

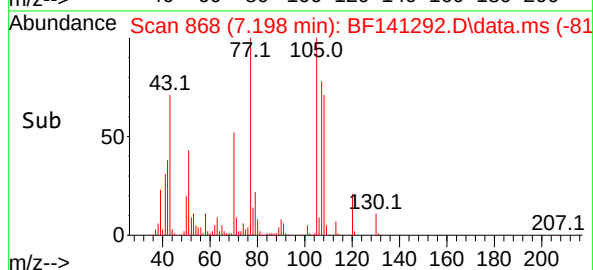
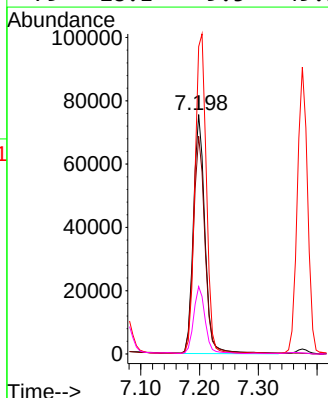
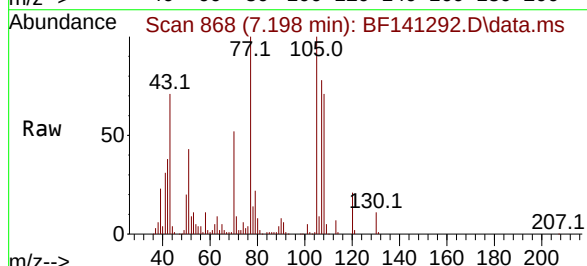
Ion Ratio Lower Upper

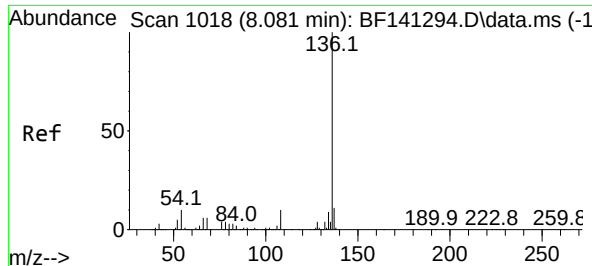
107 100

108 91.0 70.9 110.9

77 128.4 98.5 138.5

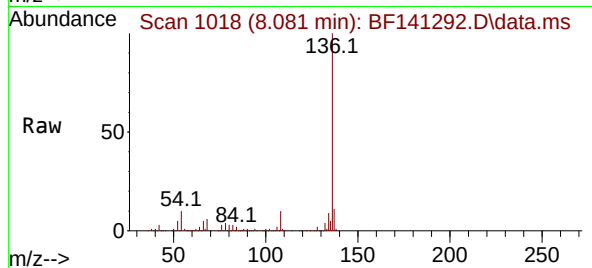
79 28.1 9.5 49.5





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1018
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

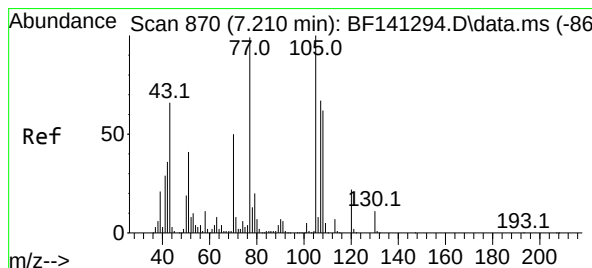
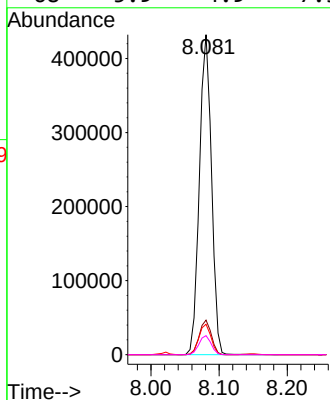
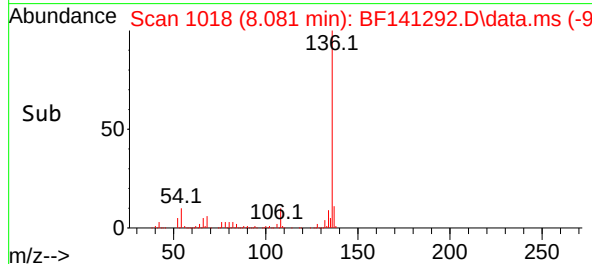
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



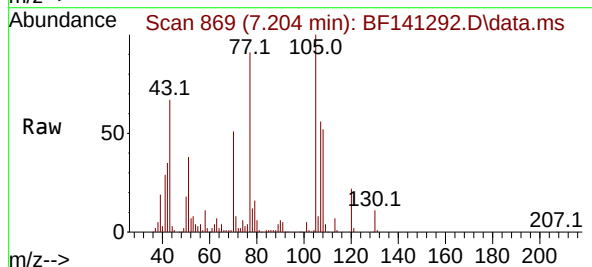
Tgt Ion:136 Resp: 533320
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 9.5 7.8 11.8
68 5.9 4.9 7.3

Manual Integrations
APPROVED

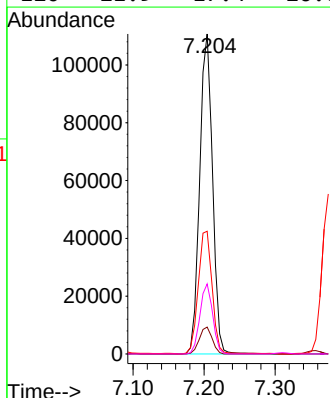
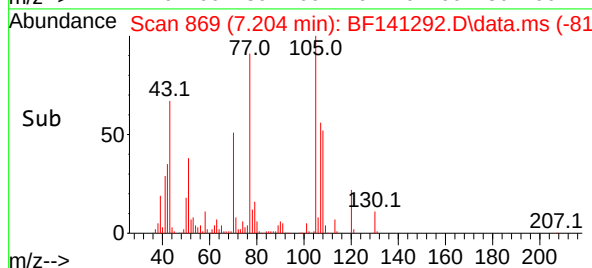
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

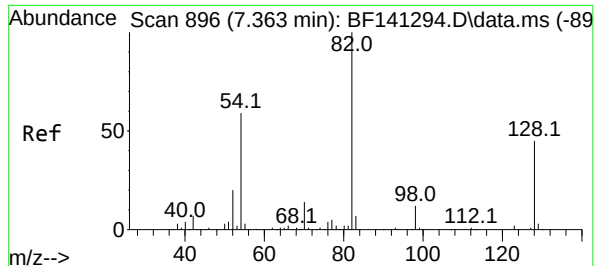


#22
Acetophenone
Concen: 11.036 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49



Tgt Ion:105 Resp: 139527
Ion Ratio Lower Upper
105 100
71 8.4 6.8 10.2
51 38.3 32.6 49.0
120 21.9 17.4 26.0





#23

Nitrobenzene-d5

Concen: 20.937 ng

RT: 7.357 min Scan# 895

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion: 82 Resp: 211040

Ion Ratio Lower Upper

82 100

128 44.0 35.7 53.5

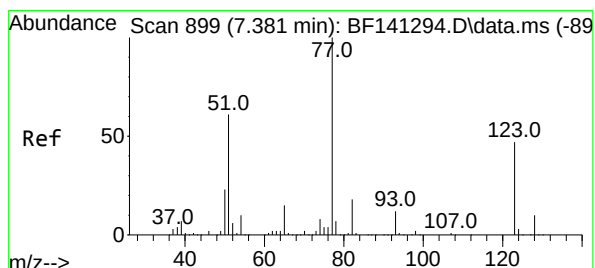
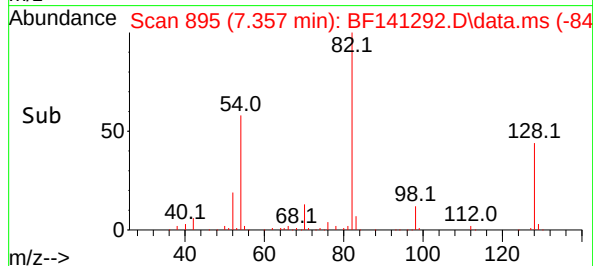
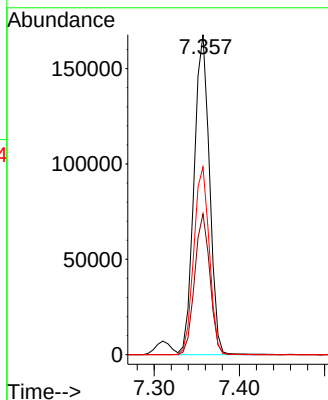
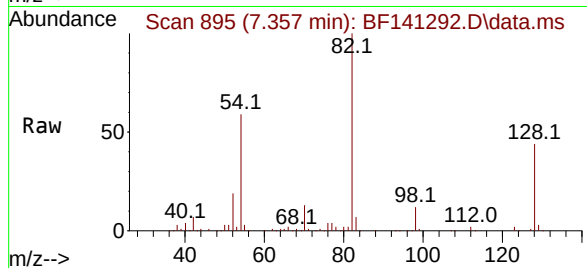
54 58.7 47.1 70.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#24

Nitrobenzene

Concen: 10.474 ng

RT: 7.375 min Scan# 898

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

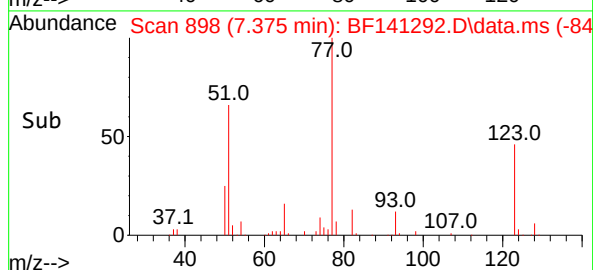
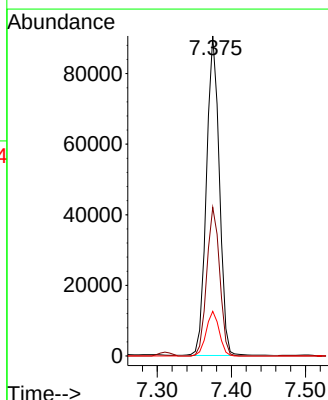
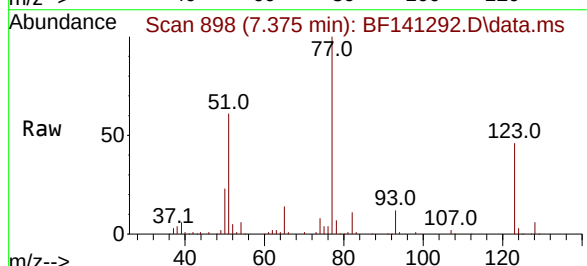
Tgt Ion: 77 Resp: 109497

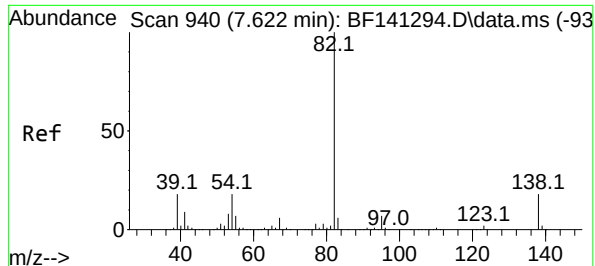
Ion Ratio Lower Upper

77 100

123 46.5 37.3 55.9

65 14.0 11.8 17.6





#25

Isophorone

Concen: 10.480 ng

RT: 7.616 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion: 82 Resp: 182564

Ion Ratio Lower Upper

82 100

95 6.9 5.8 8.6

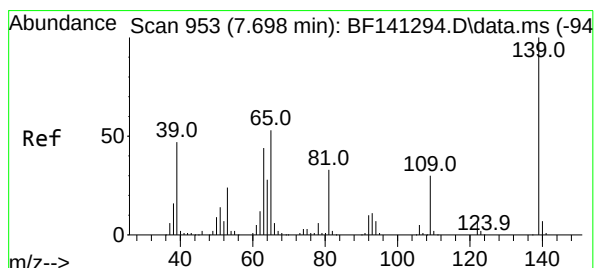
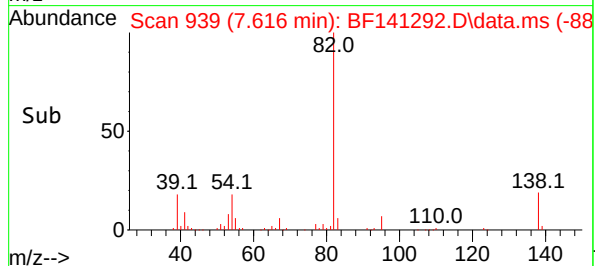
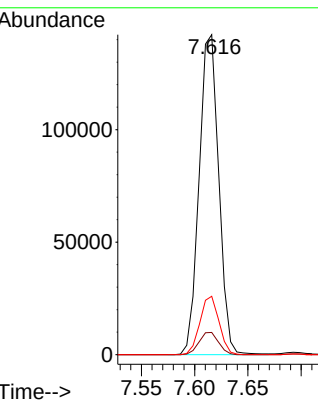
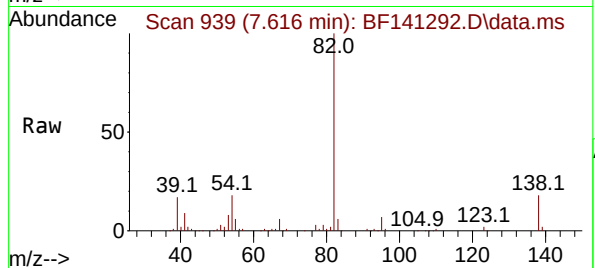
138 18.2 14.7 22.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#26

2-Nitrophenol

Concen: 10.167 ng

RT: 7.692 min Scan# 952

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

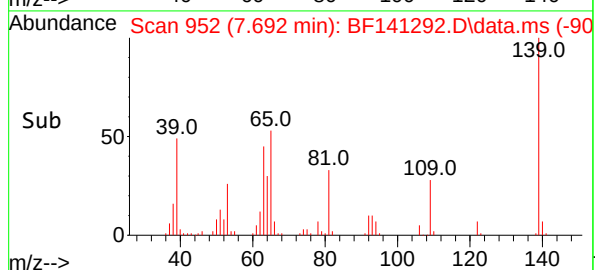
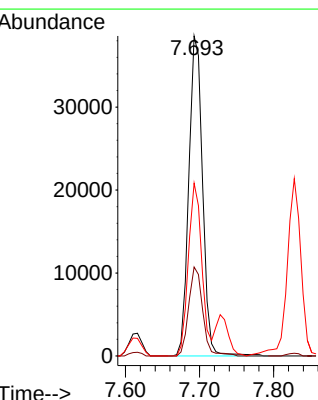
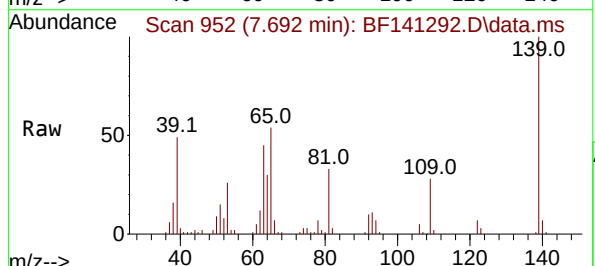
Tgt Ion:139 Resp: 49783

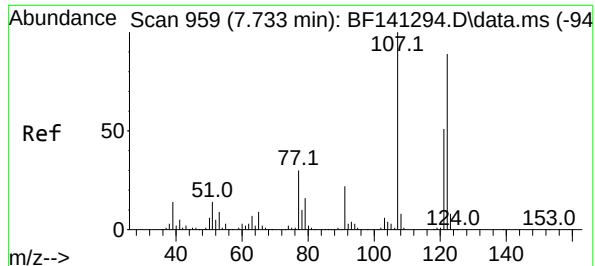
Ion Ratio Lower Upper

139 100

109 27.8 23.8 35.6

65 54.0 42.2 63.4





#27

2,4-Dimethylphenol

Concen: 10.177 ng m

RT: 7.728 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:122 Resp: 6368

Ion Ratio Lower Upper

122 100

107 114.9 89.9 134.9

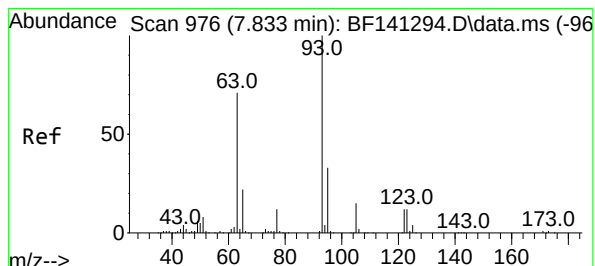
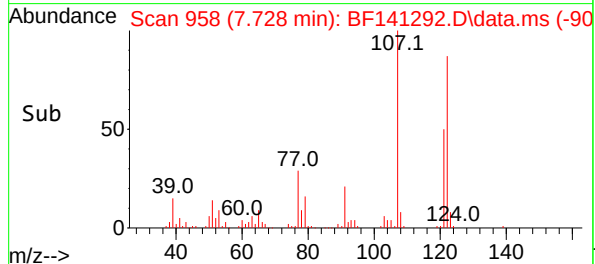
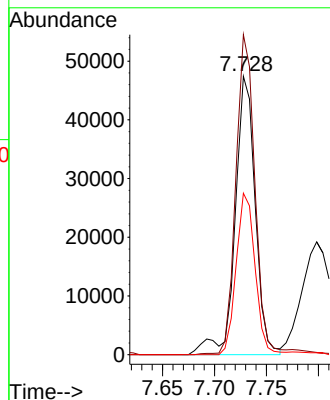
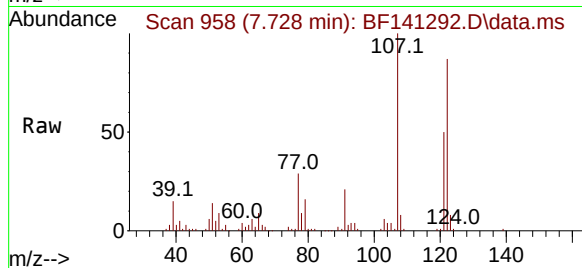
121 58.0 46.1 69.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#28

bis(2-Chloroethoxy)methane

Concen: 10.561 ng

RT: 7.828 min Scan# 975

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

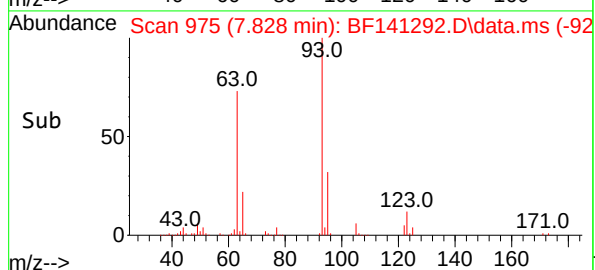
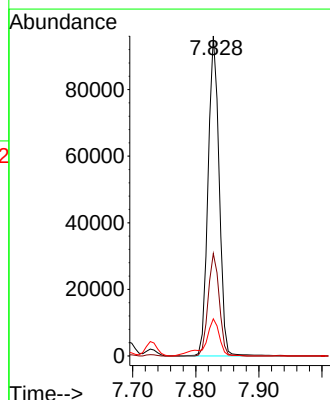
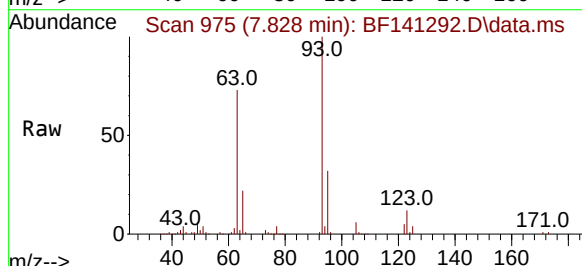
Tgt Ion: 93 Resp: 117232

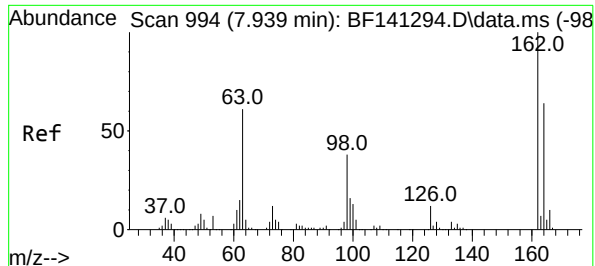
Ion Ratio Lower Upper

93 100

95 32.0 26.2 39.2

123 11.6 10.2 15.4





#29

2,4-Dichlorophenol

Concen: 10.457 ng

RT: 7.934 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

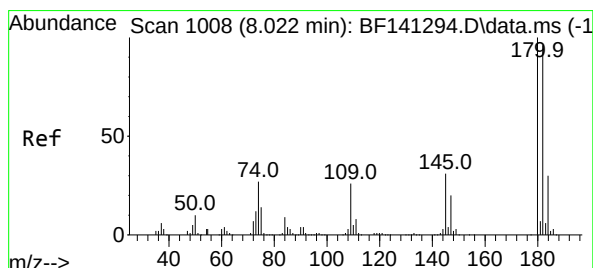
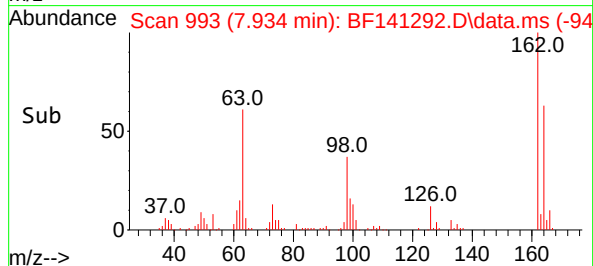
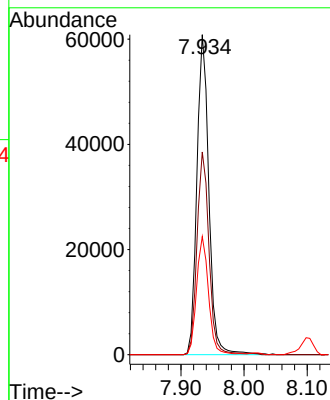
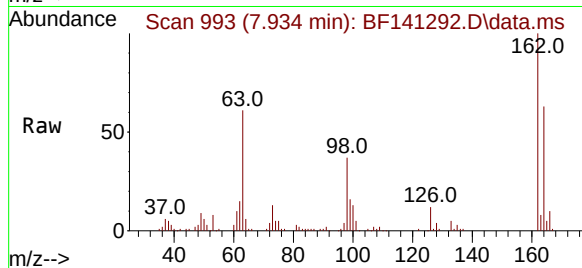
Tgt Ion	Ratio	Lower	Upper
162	100		
164	63.4	44.2	84.2
98	36.9	18.2	58.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#30

1,2,4-Trichlorobenzene

Concen: 10.767 ng

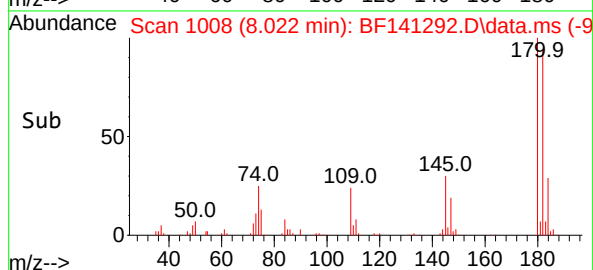
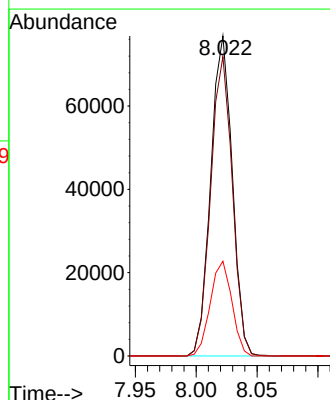
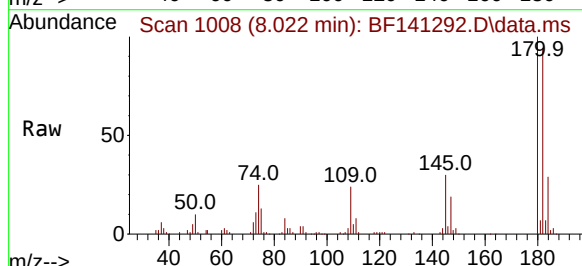
RT: 8.022 min Scan# 1008

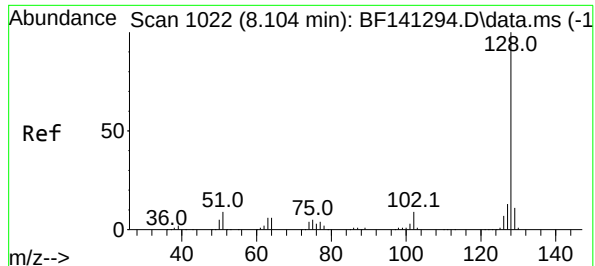
Delta R.T. 0.000 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.6	76.4	114.6
145	29.6	24.9	37.3





#31

Naphthalene

Concen: 10.887 ng

RT: 8.098 min Scan# 1022

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

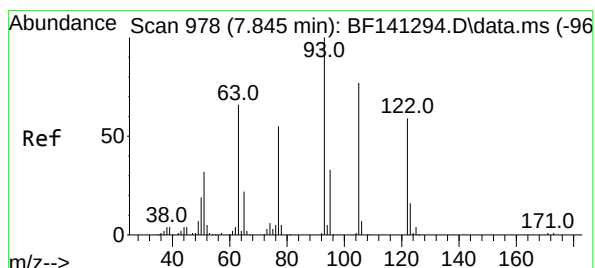
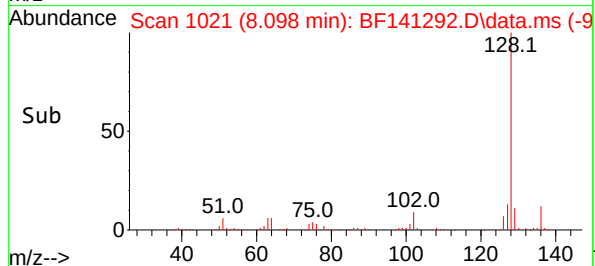
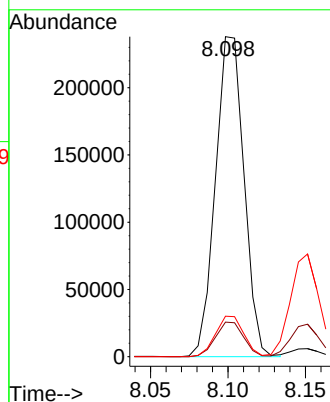
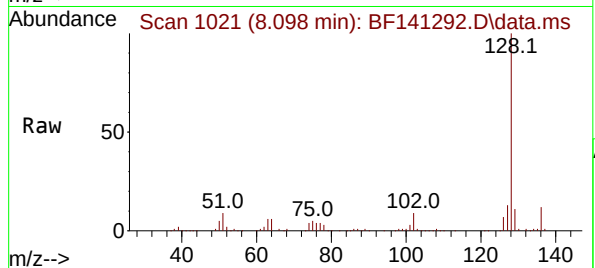
ClientSampleId :

SSTDICC010

Tgt Ion:128 Resp: 305380
Ion Ratio Lower Upper
128 100
129 10.8 8.9 13.3
127 12.7 10.6 15.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#32

Benzoic acid

Concen: 8.367 ng

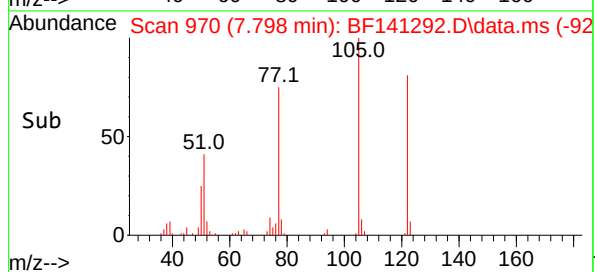
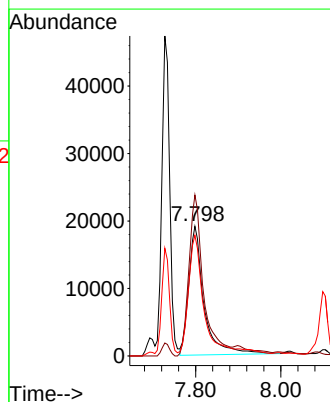
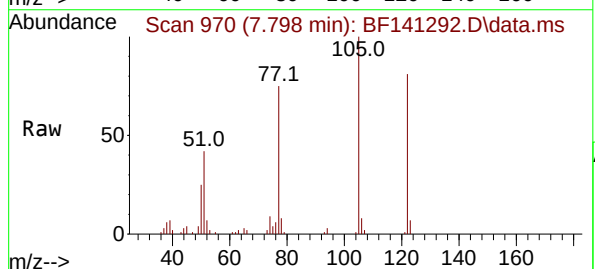
RT: 7.798 min Scan# 970

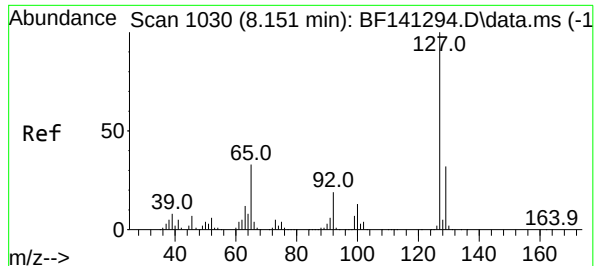
Delta R.T. -0.047 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

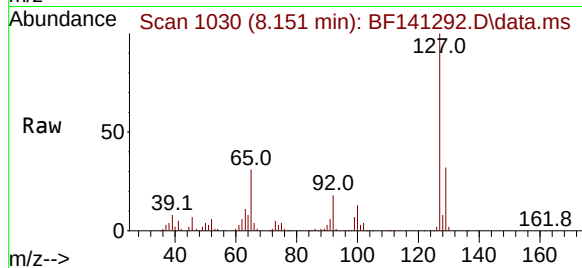
Tgt Ion:122 Resp: 47549
Ion Ratio Lower Upper
122 100
105 124.1 103.4 143.4
77 93.0 70.9 110.9





#33
4-Chloroaniline
Concen: 10.703 ng
RT: 8.151 min Scan# 1030
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

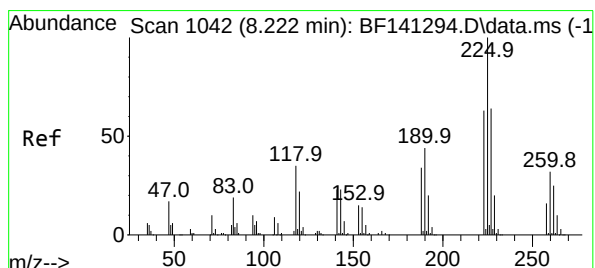
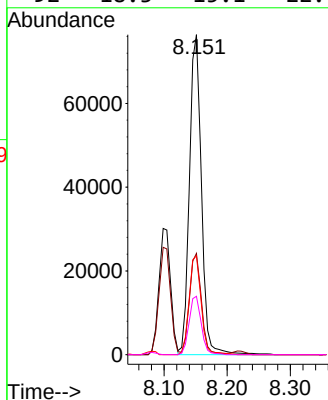
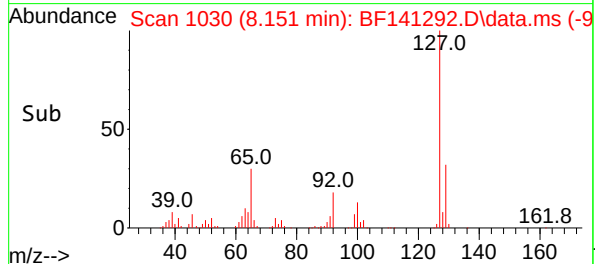
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:127 Resp: 100852
Ion Ratio Lower Upper
127 100
129 31.7 25.7 38.5
65 30.9 26.4 39.6
92 18.3 15.1 22.7

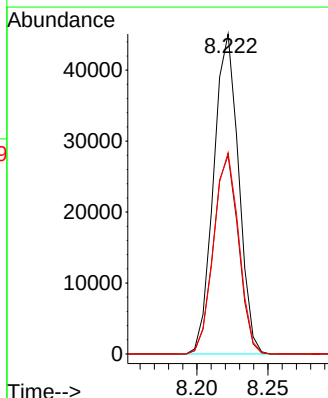
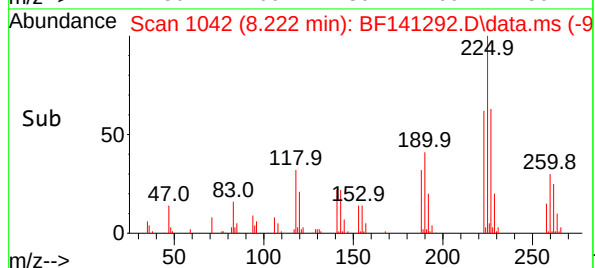
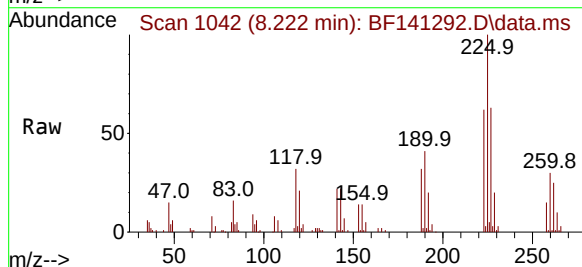
Manual Integrations
APPROVED

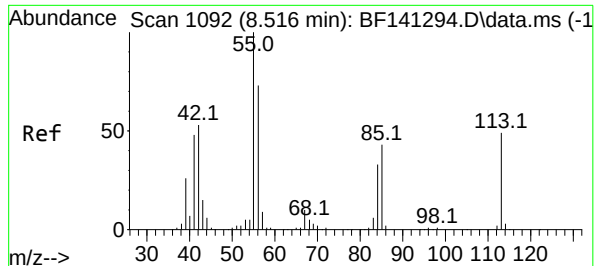
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#34
Hexachlorobutadiene
Concen: 10.736 ng
RT: 8.222 min Scan# 1042
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:225 Resp: 55103
Ion Ratio Lower Upper
225 100
223 62.0 50.4 75.6
227 62.9 51.3 76.9





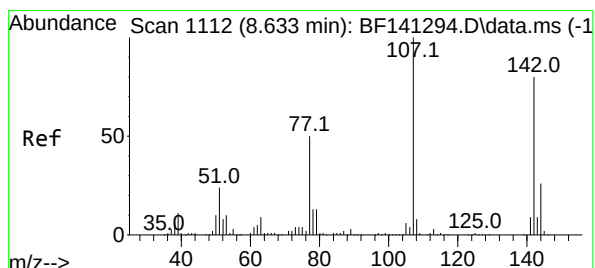
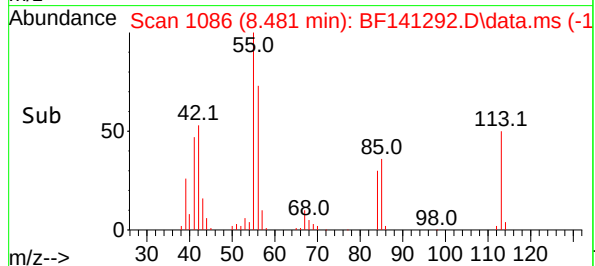
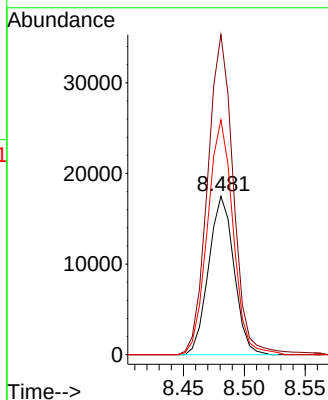
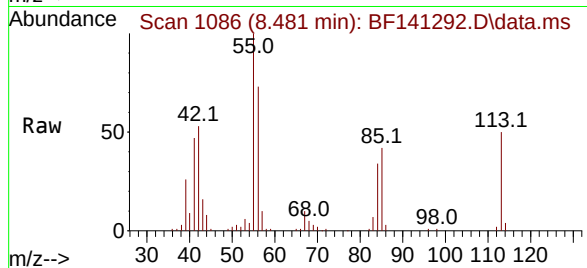
#35
Caprolactam
Concen: 10.256 ng
RT: 8.481 min Scan# 1086
Delta R.T. -0.035 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:113 Resp: 2536
Ion Ratio Lower Upper
113 100
55 201.9 182.9 222.9
56 148.2 127.9 167.9

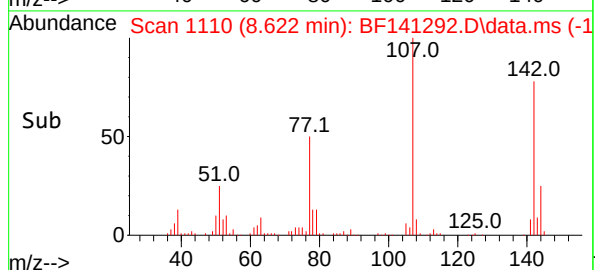
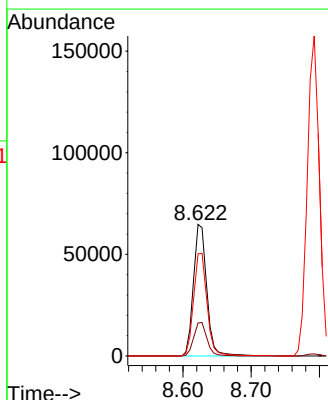
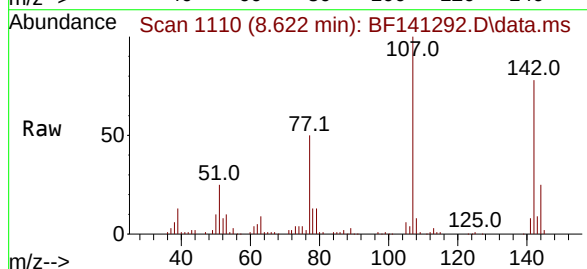
Manual Integrations
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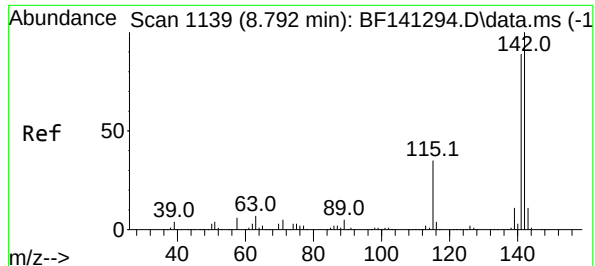
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#36
4-Chloro-3-methylphenol
Concen: 10.674 ng
RT: 8.622 min Scan# 1110
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:107 Resp: 87592
Ion Ratio Lower Upper
107 100
144 25.1 20.7 31.1
142 77.6 63.8 95.8





#37

2-Methylnaphthalene

Concen: 10.925 ng

RT: 8.792 min Scan# 1139

Delta R.T. 0.000 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:142 Resp: 195160

Ion Ratio Lower Upper

142 100

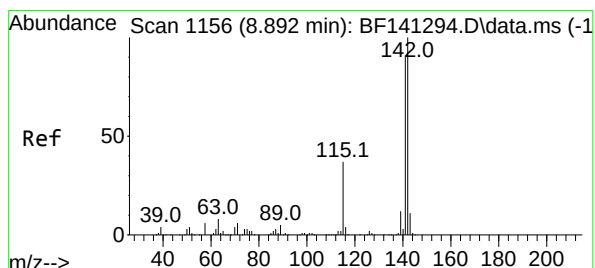
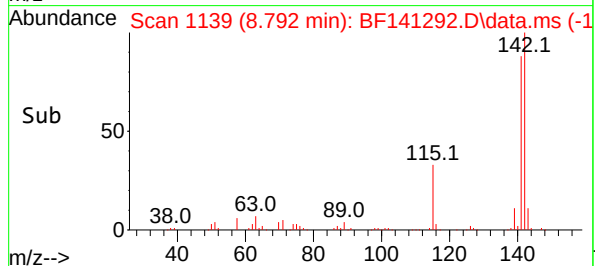
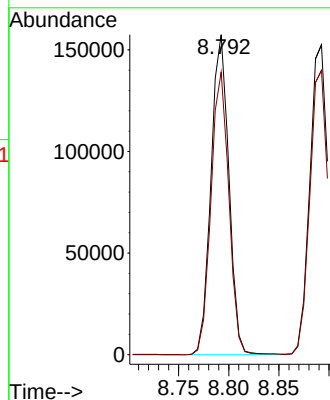
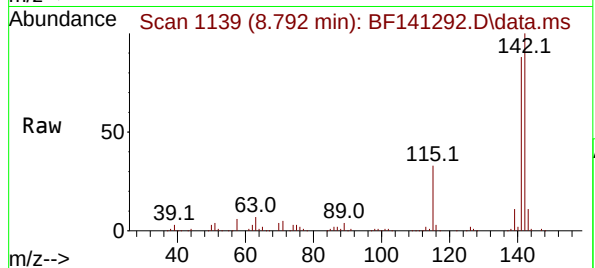
141 88.3 71.3 106.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#38

1-Methylnaphthalene

Concen: 11.022 ng

RT: 8.892 min Scan# 1156

Delta R.T. 0.000 min

Lab File: BF141292.D

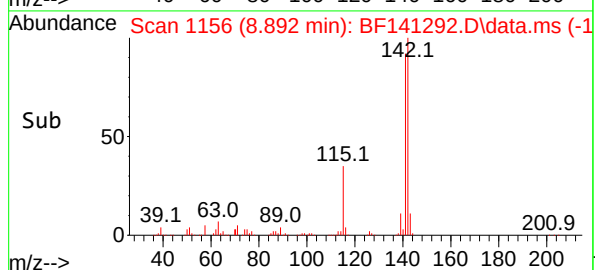
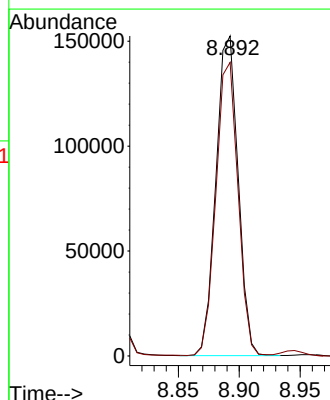
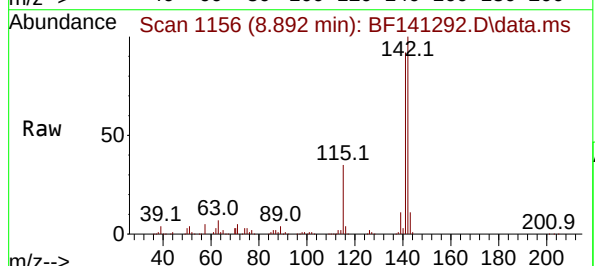
Acq: 29 Jan 2025 11:49

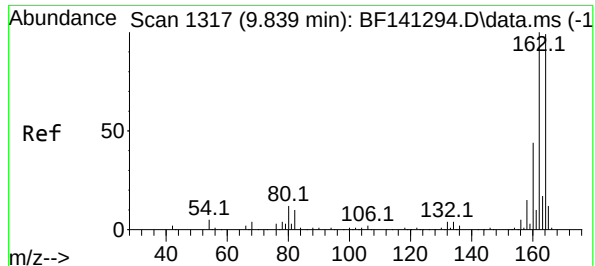
Tgt Ion:142 Resp: 192861

Ion Ratio Lower Upper

142 100

141 91.7 73.2 109.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.834 min Scan# 1167

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDIC010

Tgt Ion:164 Resp: 28955

Ion Ratio Lower Upper

164 100

162 100.0 80.6 121.0

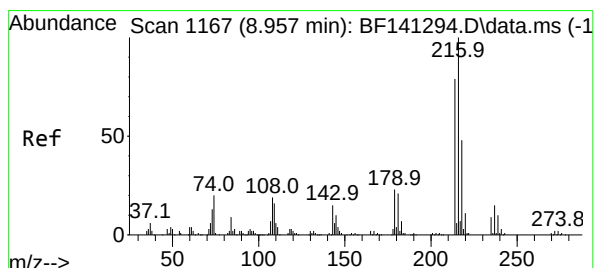
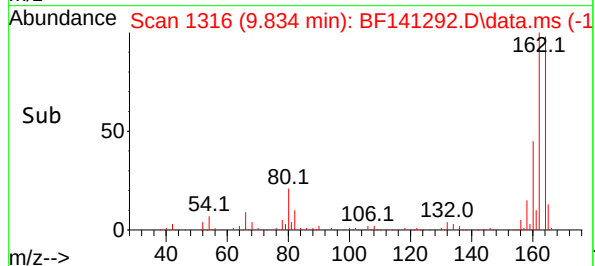
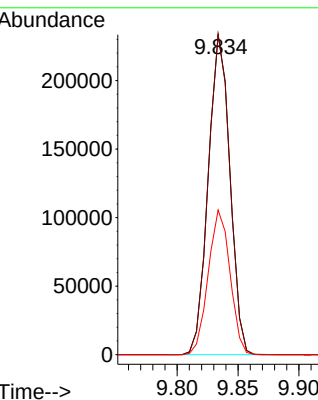
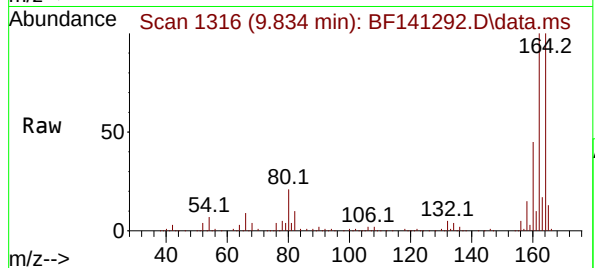
160 45.2 35.8 53.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#40

1,2,4,5-Tetrachlorobenzene

Concen: 10.775 ng

RT: 8.957 min Scan# 1167

Delta R.T. 0.000 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Tgt Ion:216 Resp: 88710

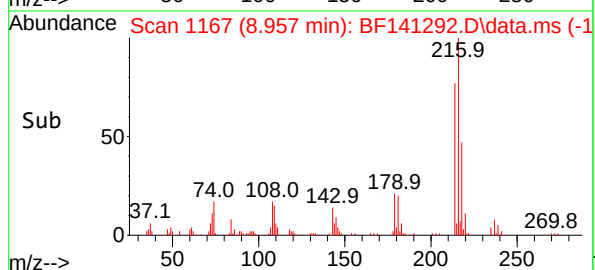
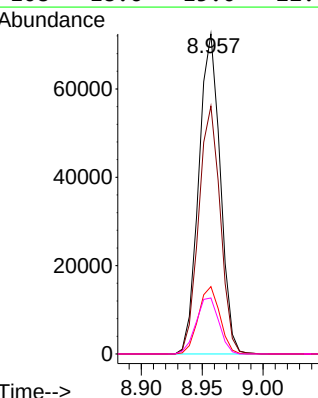
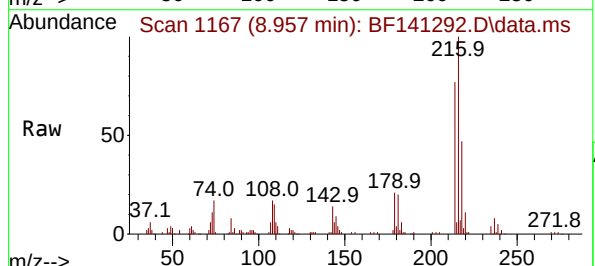
Ion Ratio Lower Upper

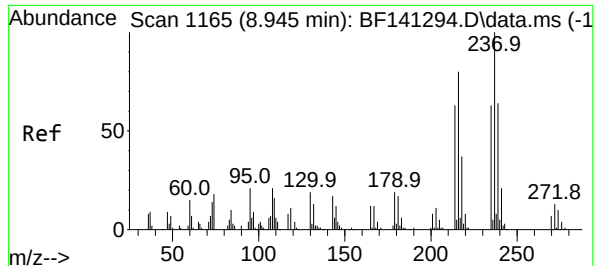
216 100

214 77.8 63.2 94.8

179 21.1 17.8 26.8

108 18.6 15.0 22.6





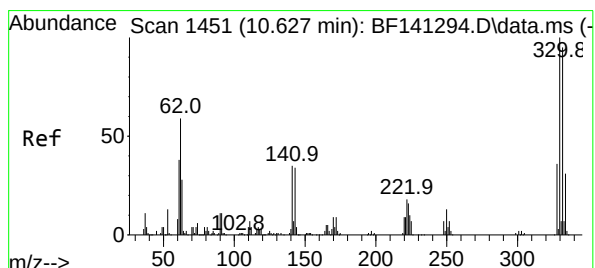
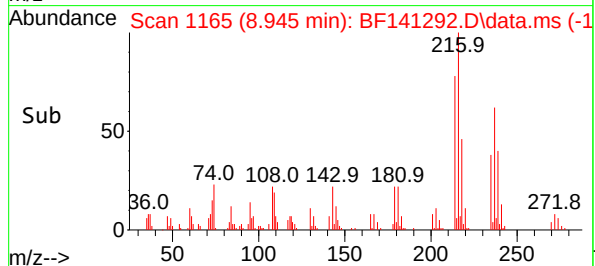
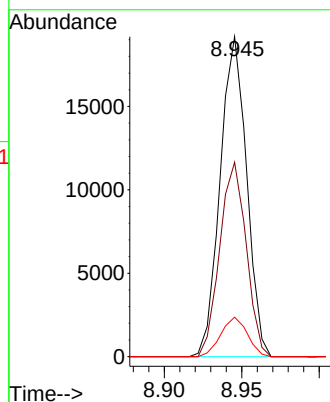
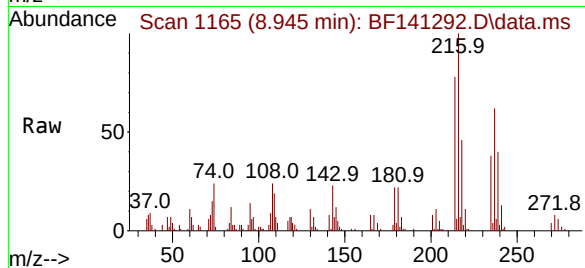
#41
Hexachlorocyclopentadiene
Concen: 9.212 ng
RT: 8.945 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Instrument :
BNA_F
Client Sample Id :
SSTDICC010

Tgt Ion: 237 Resp: 2275
Ion Ratio Lower Upper
237 100
235 60.8 42.9 82.9
272 12.3 0.0 32.8

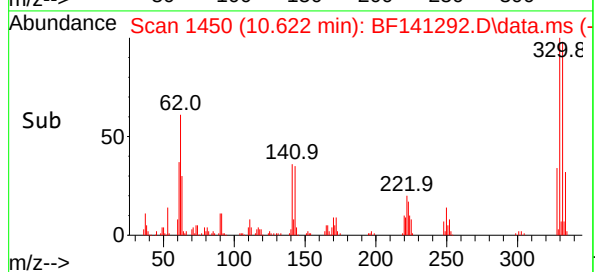
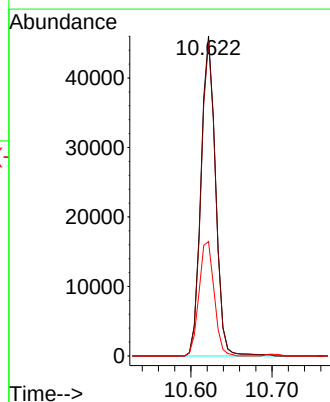
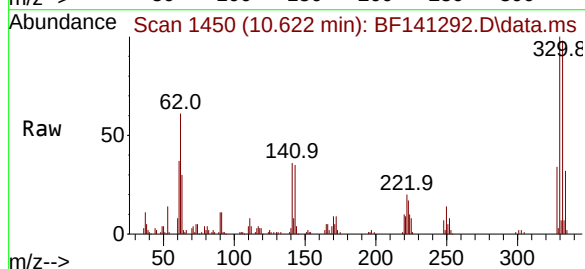
Manual Integrations
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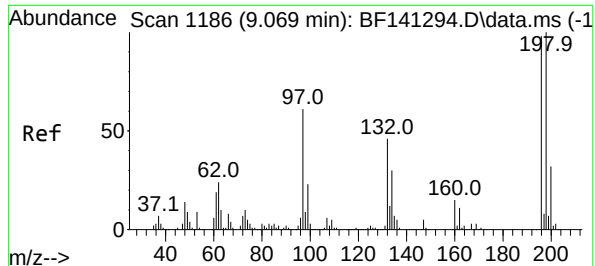
Reviewed By : Yogesh Patel 01/30/2025
Supervised By : mohammad ahmed 02/04/2025



#42
2,4,6-Tribromophenol
Concen: 21.761 ng
RT: 10.622 min Scan# 1450
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion: 330 Resp: 57417
Ion Ratio Lower Upper
330 100
332 98.0 76.1 114.1
141 37.3 28.8 43.2





#43

2,4,6-Trichlorophenol

Concen: 10.241 ng

RT: 9.069 min Scan# 1186

Delta R.T. 0.000 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:196 Resp: 5503

Ion Ratio Lower Upper

196 100

198 101.0 81.8 122.6

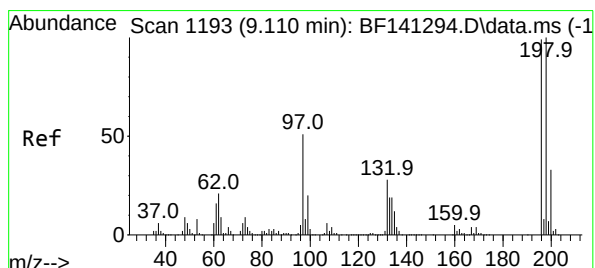
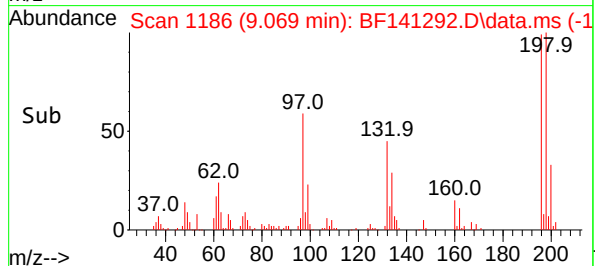
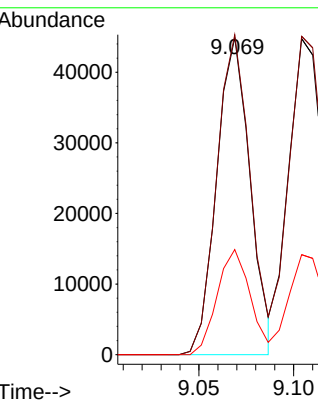
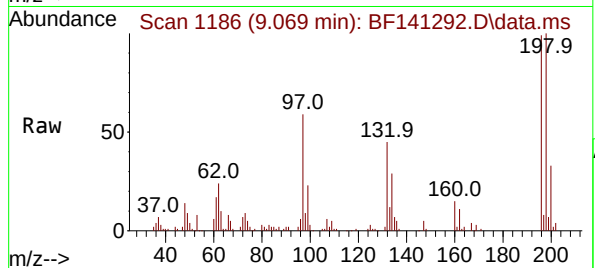
200 33.2 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#44

2,4,5-Trichlorophenol

Concen: 10.518 ng

RT: 9.104 min Scan# 1192

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Tgt Ion:196 Resp: 61493

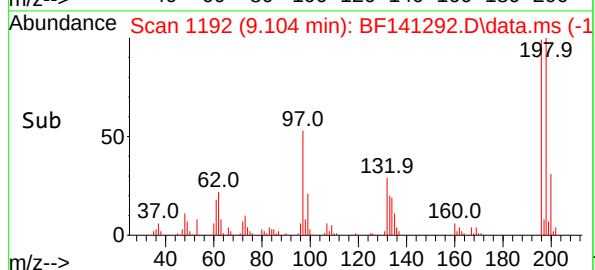
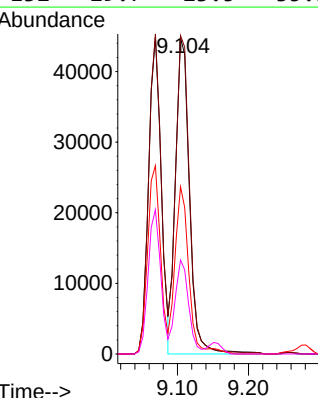
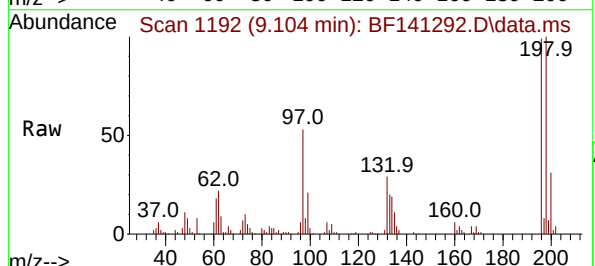
Ion Ratio Lower Upper

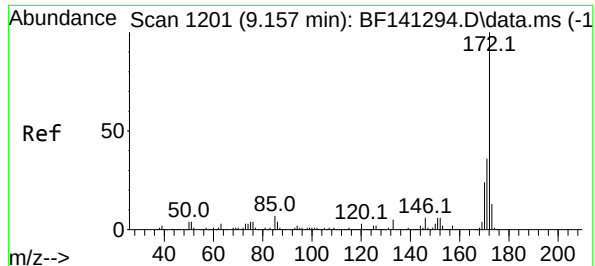
196 100

198 100.8 80.5 120.7

97 52.9 42.8 64.2

132 29.7 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 22.581 ng

RT: 9.151 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:172 Resp: 42385

Ion Ratio Lower Upper

172 100

171 34.7 28.8 43.2

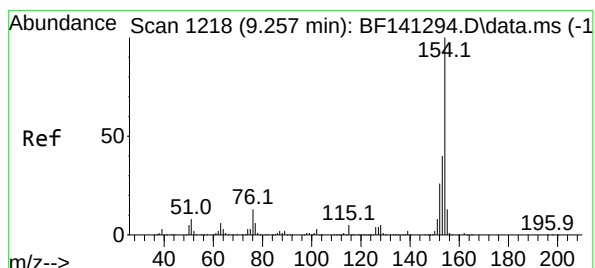
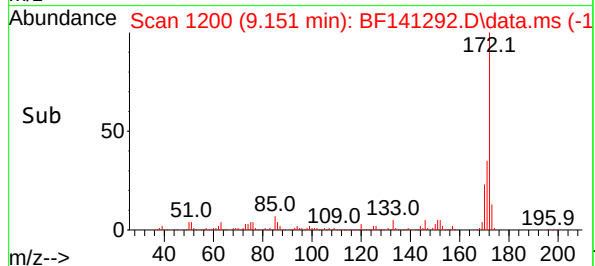
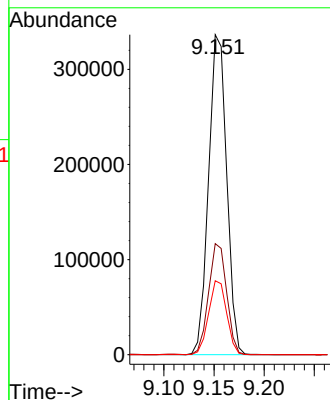
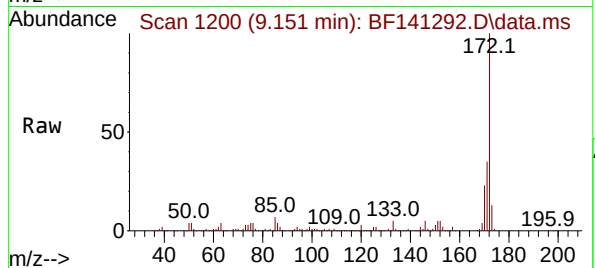
170 23.1 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#46

1,1'-Biphenyl

Concen: 10.847 ng

RT: 9.257 min Scan# 1218

Delta R.T. 0.000 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

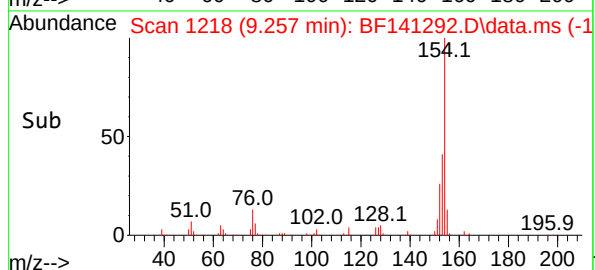
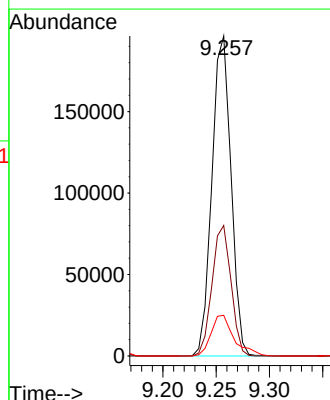
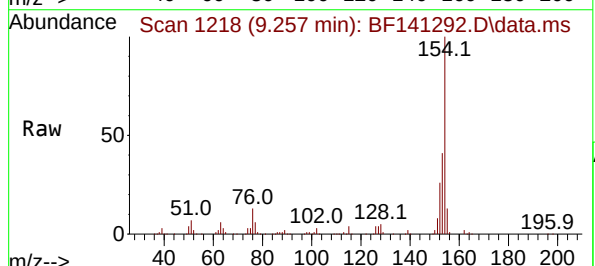
Tgt Ion:154 Resp: 245028

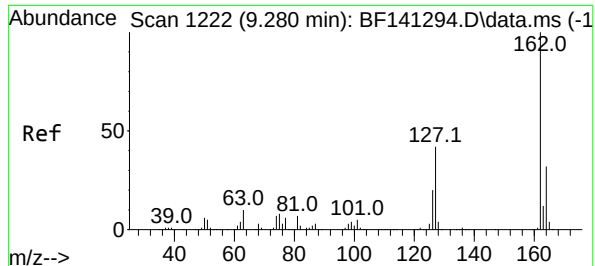
Ion Ratio Lower Upper

154 100

153 40.8 20.0 60.0

76 12.7 0.0 32.8





#47

2-Chloronaphthalene

Concen: 10.812 ng

RT: 9.281 min Scan# 1222

Delta R.T. 0.000 min

Lab File: BF141292.D

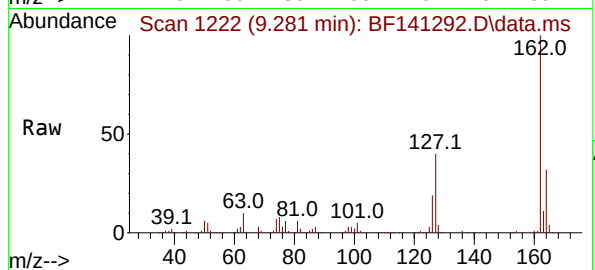
Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010



Tgt Ion:162 Resp: 189709

Ion Ratio Lower Upper

162 100

127 40.2 33.7 50.5

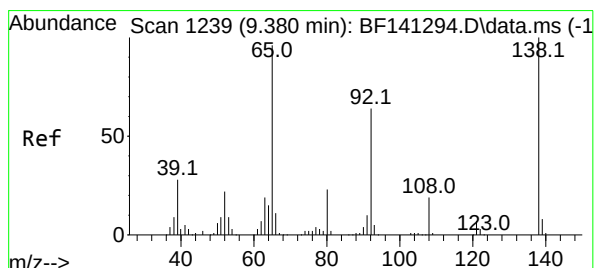
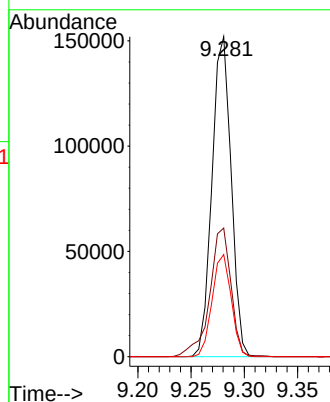
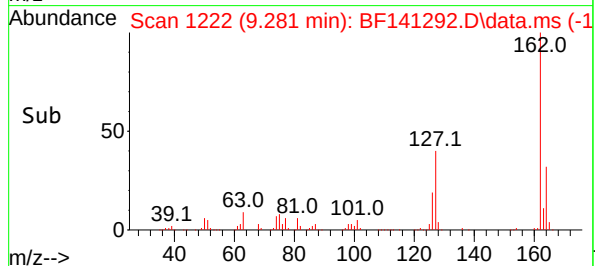
164 31.9 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#48

2-Nitroaniline

Concen: 10.164 ng

RT: 9.375 min Scan# 1238

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

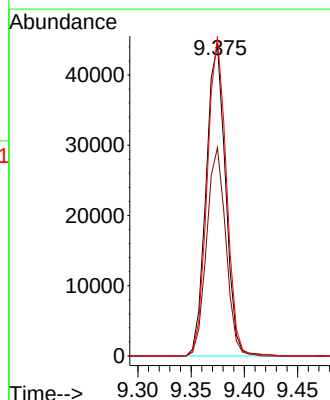
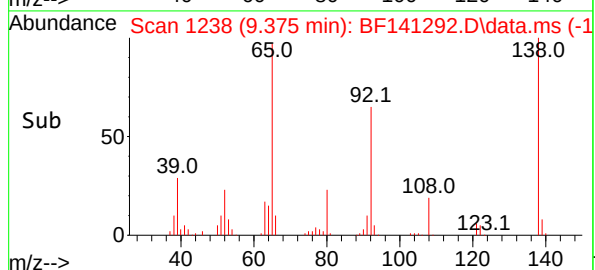
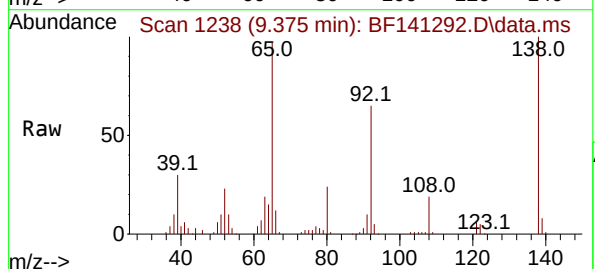
Tgt Ion: 65 Resp: 56247

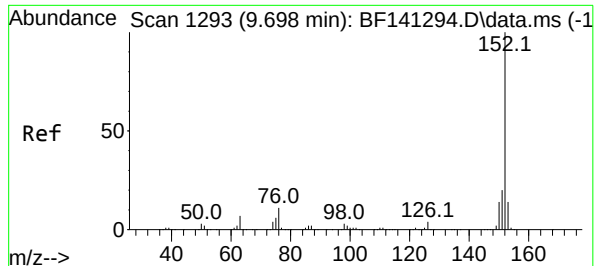
Ion Ratio Lower Upper

65 100

92 67.0 53.3 79.9

138 102.9 83.6 125.4





#49

Acenaphthylene

Concen: 10.895 ng

RT: 9.692 min Scan# 1292

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

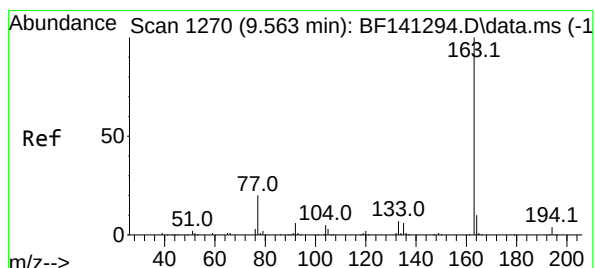
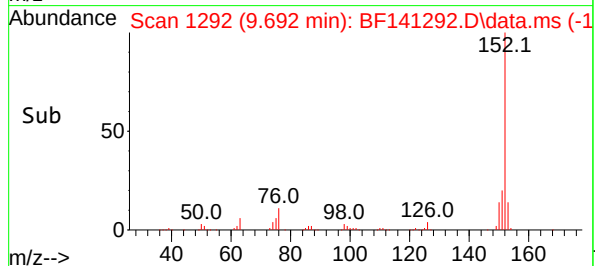
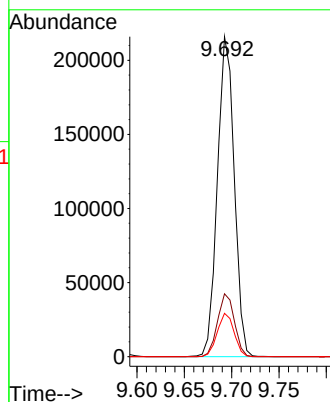
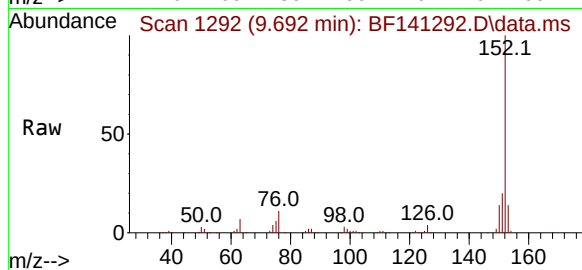
Tgt Ion:	152	Resp:	26847
Ion Ratio	Lower	Upper	
152	100		
151	19.7	16.2	24.2
153	13.6	11.0	16.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#50

Dimethylphthalate

Concen: 10.857 ng

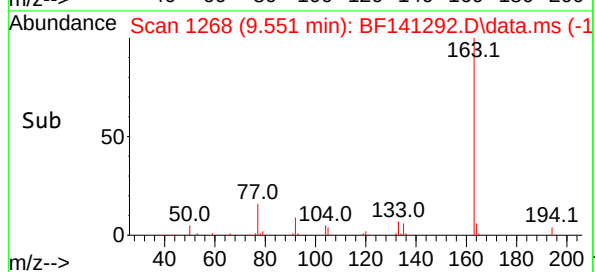
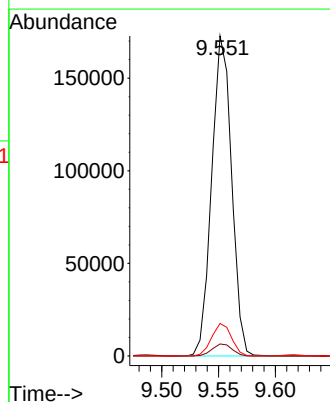
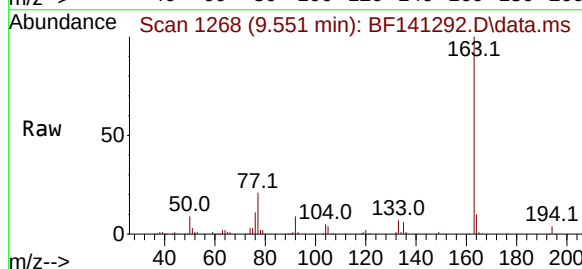
RT: 9.551 min Scan# 1268

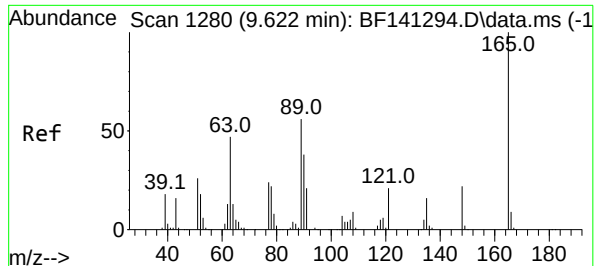
Delta R.T. -0.012 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

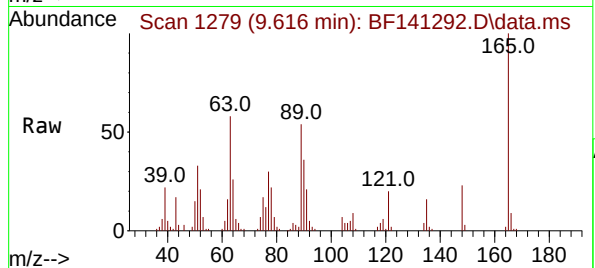
Tgt Ion:	163	Resp:	210816
Ion Ratio	Lower	Upper	
163	100		
194	3.7	3.0	4.6
164	10.2	8.0	12.0





#51
2,6-Dinitrotoluene
Concen: 10.613 ng
RT: 9.616 min Scan# 1279
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

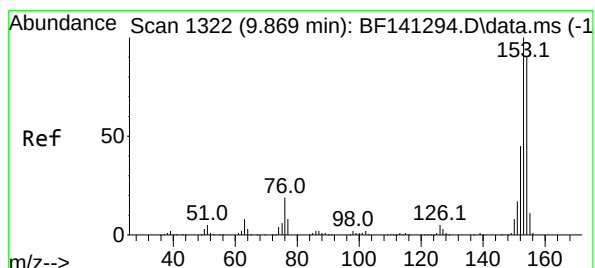
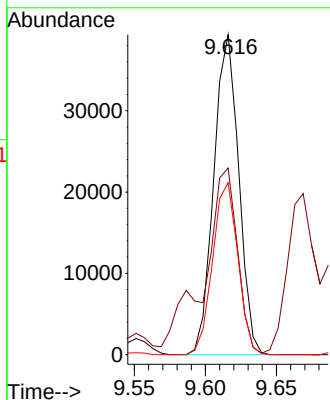
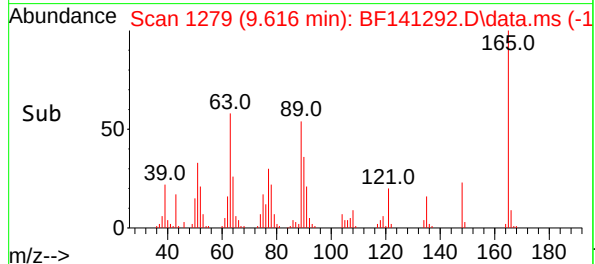
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:165 Resp: 4795
Ion Ratio Lower Upper
165 100
63 58.3 48.1 72.1
89 53.7 44.9 67.3

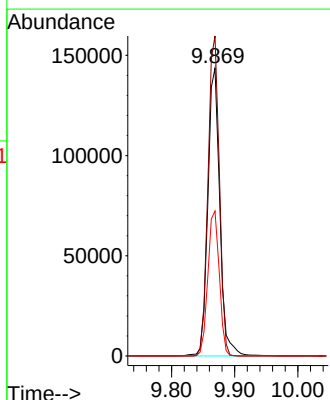
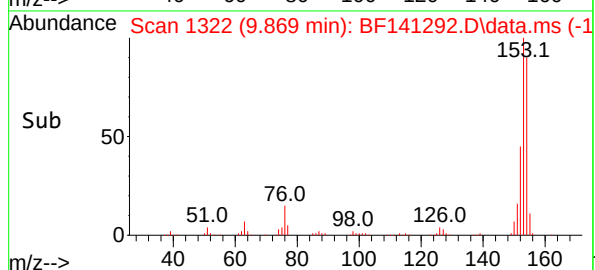
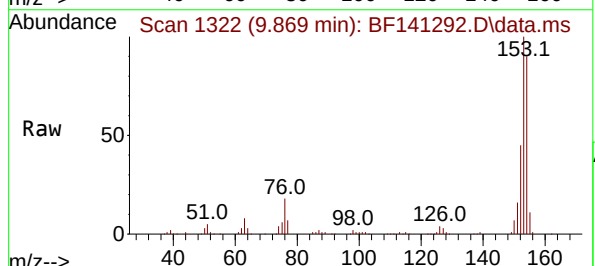
Manual Integrations
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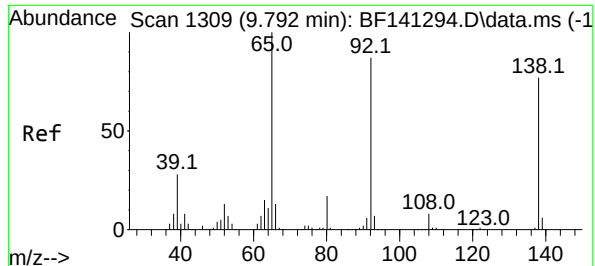
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#52
Acenaphthene
Concen: 10.738 ng
RT: 9.869 min Scan# 1322
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:154 Resp: 188283
Ion Ratio Lower Upper
154 100
153 111.2 89.0 133.4
152 50.4 40.2 60.4





#53

3-Nitroaniline

Concen: 10.699 ng

RT: 9.781 min Scan# 1307

Delta R.T. -0.012 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

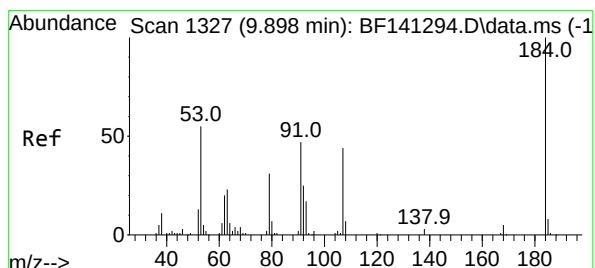
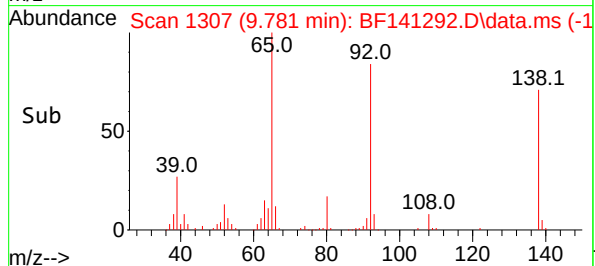
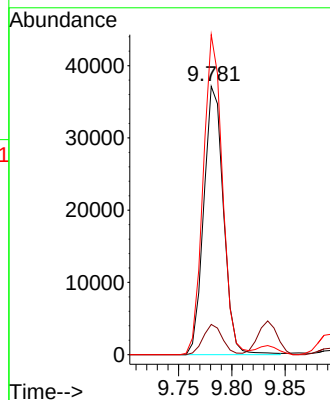
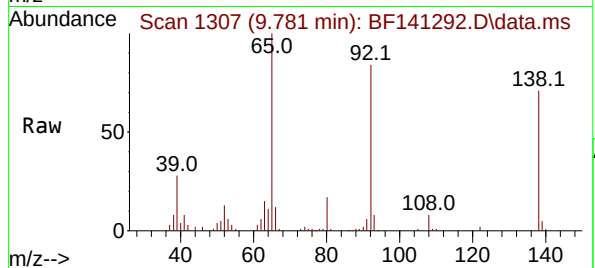
Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:	138	Resp:	47818
Ion	Ratio	Lower	Upper
138	100		
108	11.3	8.6	12.8
92	119.2	91.0	136.6

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

#54

2,4-Dinitrophenol

Concen: 6.925 ng

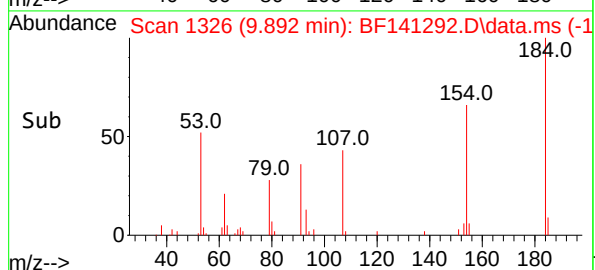
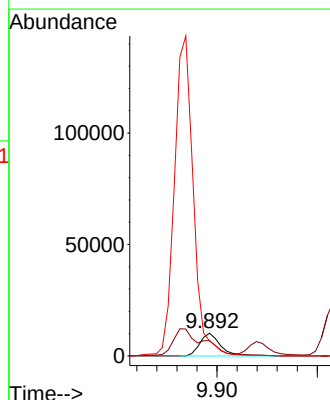
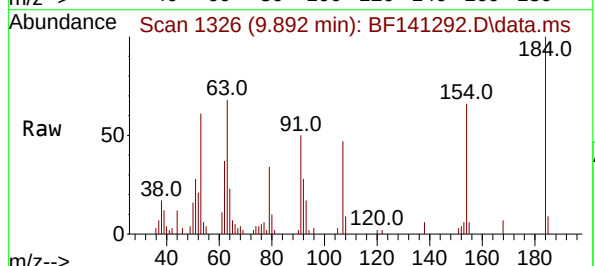
RT: 9.892 min Scan# 1326

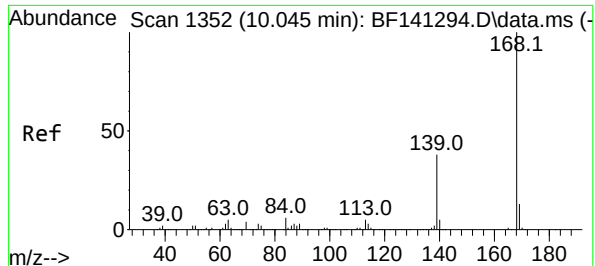
Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Tgt Ion:	184	Resp:	14749
Ion	Ratio	Lower	Upper
184	100		
63	67.9	54.1	81.1
154	66.2	50.7	76.1





#55

Dibenzenofuran

Concen: 11.038 ng

RT: 10.039 min Scan# 1351

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:168 Resp: 25883

Ion Ratio Lower Upper

168 100

139 37.7 30.6 46.0

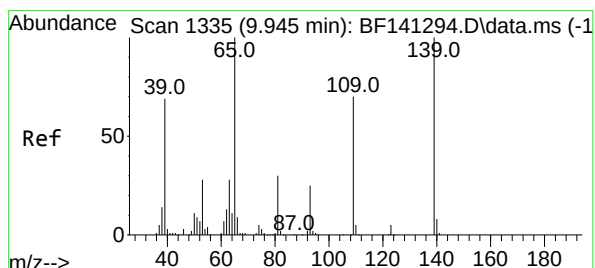
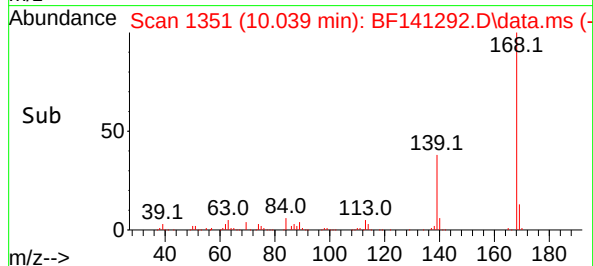
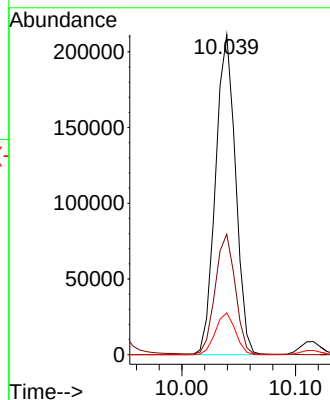
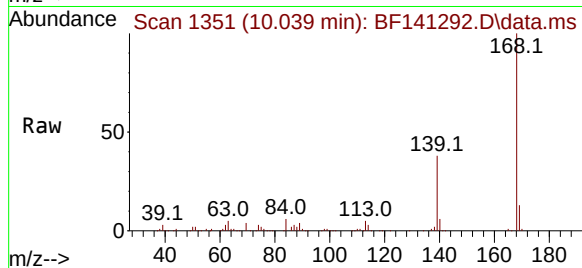
169 13.1 10.8 16.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#56

4-Nitrophenol

Concen: 9.722 ng

RT: 9.939 min Scan# 1334

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

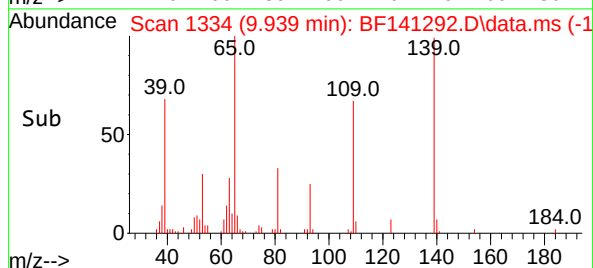
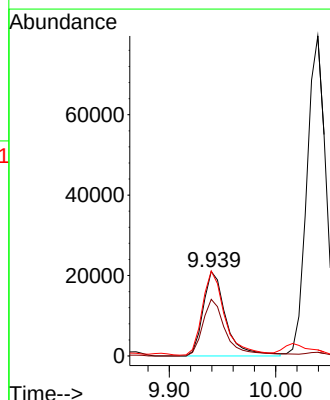
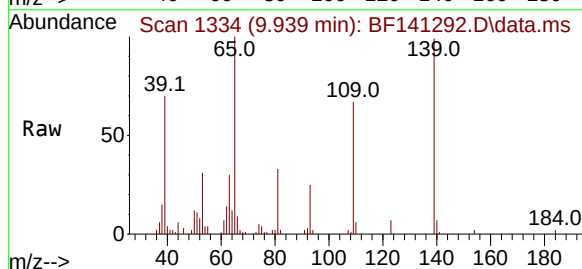
Tgt Ion:139 Resp: 31196

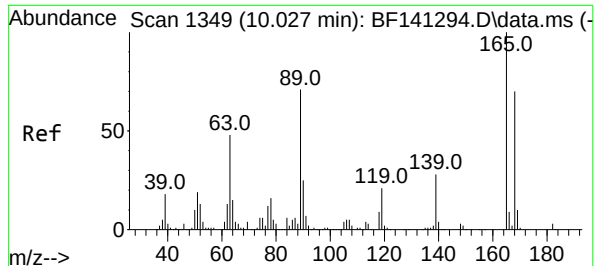
Ion Ratio Lower Upper

139 100

109 67.1 50.2 90.2

65 100.6 80.6 120.6





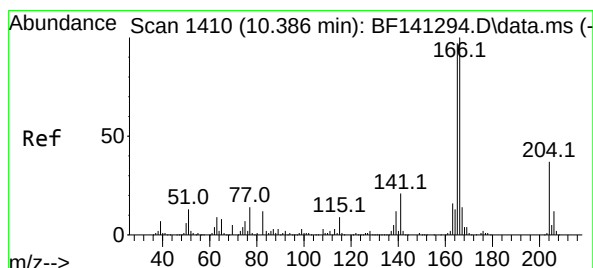
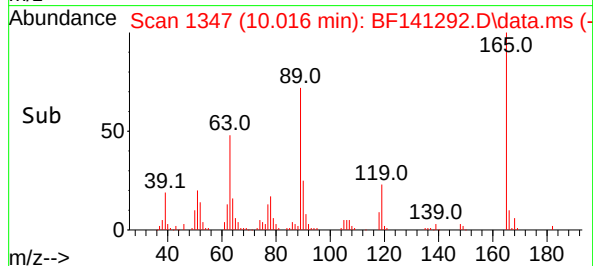
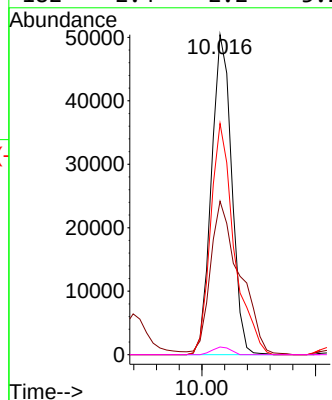
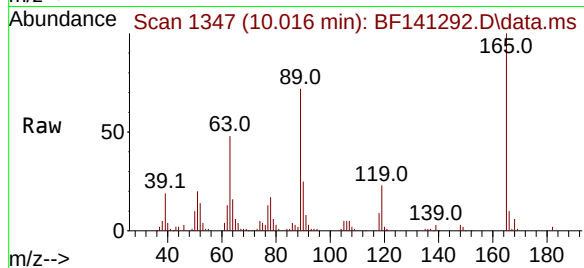
#57
2,4-Dinitrotoluene
Concen: 10.710 ng
RT: 10.016 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion:165 Resp: 62418
Ion Ratio Lower Upper
165 100
63 48.0 39.2 58.8
89 72.2 56.9 85.3
182 2.4 2.2 3.2

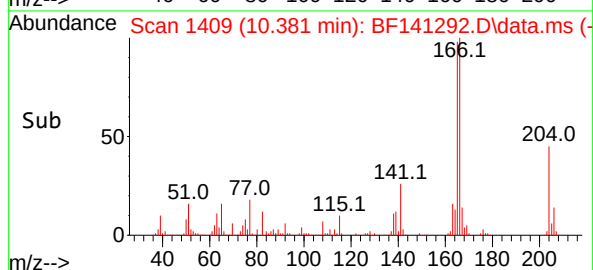
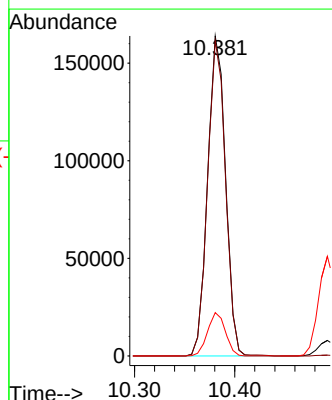
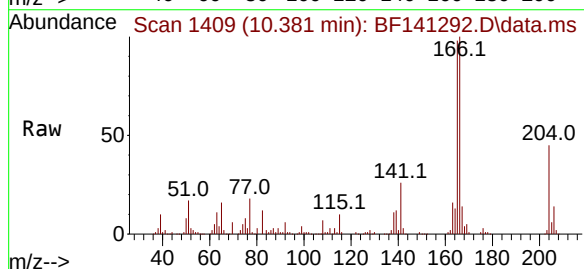
Manual Integrations
APPROVED

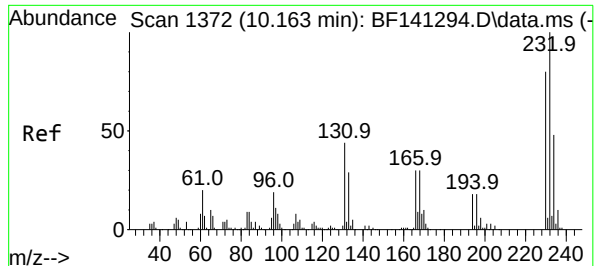
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#58
Fluorene
Concen: 11.197 ng
RT: 10.381 min Scan# 1409
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

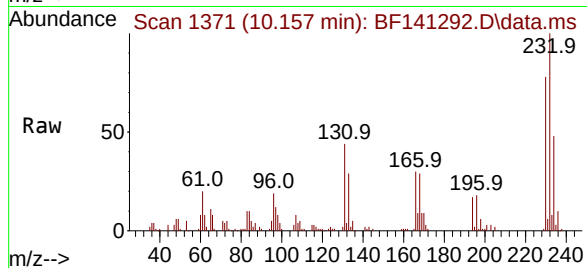
Tgt Ion:166 Resp: 204141
Ion Ratio Lower Upper
166 100
165 98.4 77.5 116.3
167 13.6 10.9 16.3





#59
2,3,4,6-Tetrachlorophenol
Concen: 10.737 ng
RT: 10.157 min Scan# 1371
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

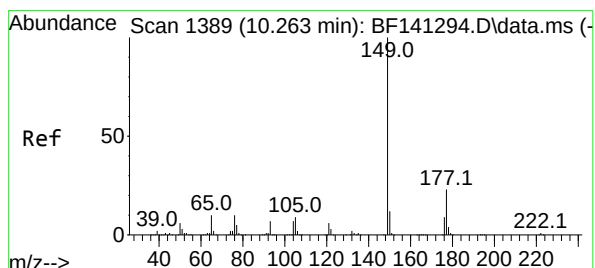
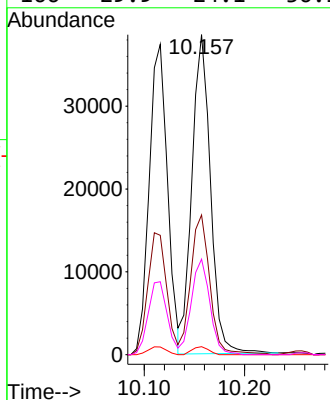
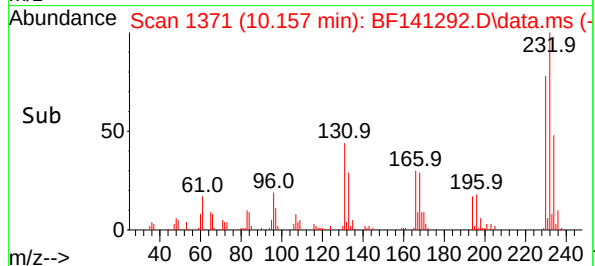
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



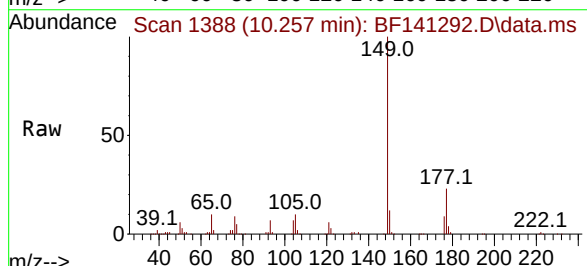
Tgt Ion:232 Resp: 49590
Ion Ratio Lower Upper
232 100
131 45.2 36.4 54.6
130 2.2 1.9 2.9
166 29.9 24.1 36.1

Manual Integrations
APPROVED

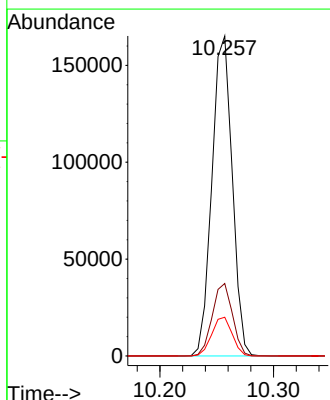
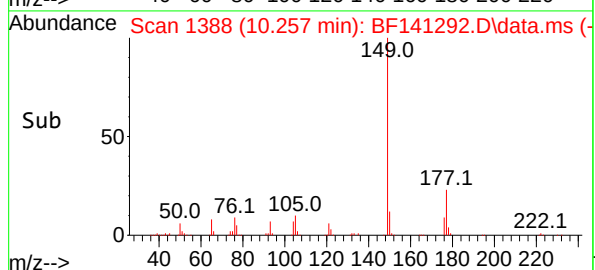
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

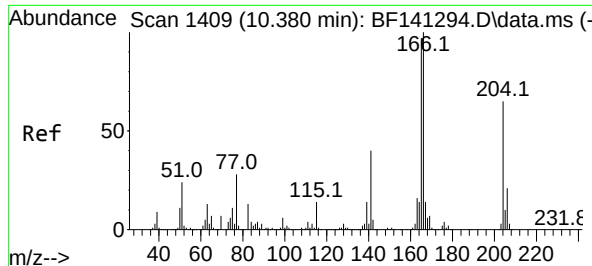


#60
Diethylphthalate
Concen: 10.908 ng
RT: 10.257 min Scan# 1388
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49



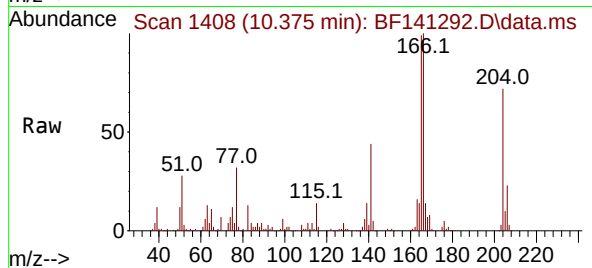
Tgt Ion:149 Resp: 205131
Ion Ratio Lower Upper
149 100
177 22.7 18.5 27.7
150 12.1 10.0 15.0





#61
4-Chlorophenyl-phenylether
Concen: 11.294 ng
RT: 10.375 min Scan# 1408
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

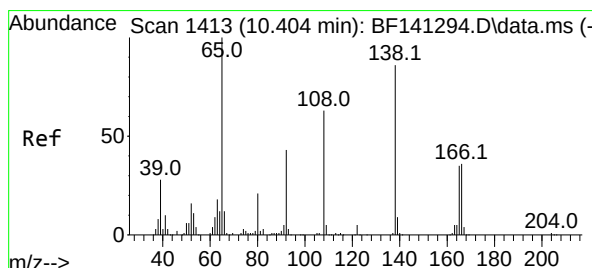
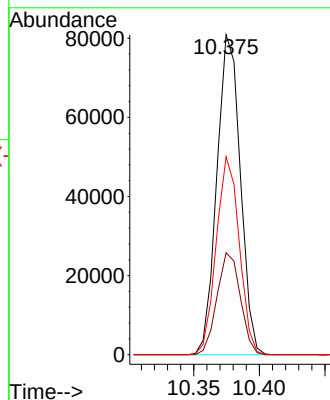
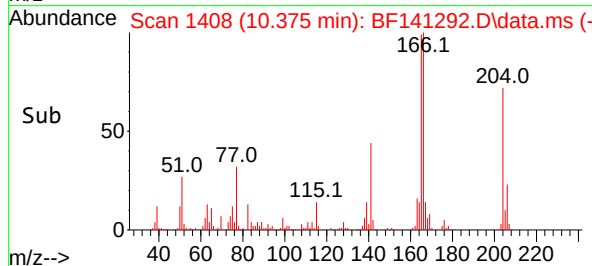
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:204 Resp: 100485
Ion Ratio Lower Upper
204 100
206 31.9 25.9 38.9
141 61.8 49.5 74.3

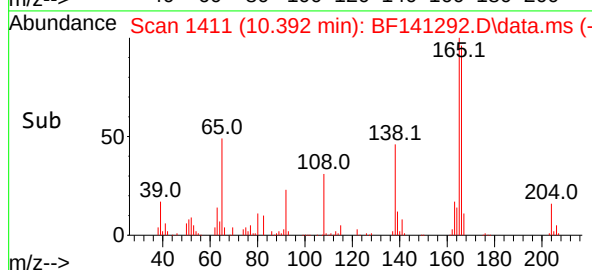
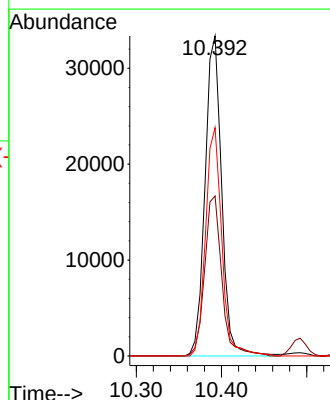
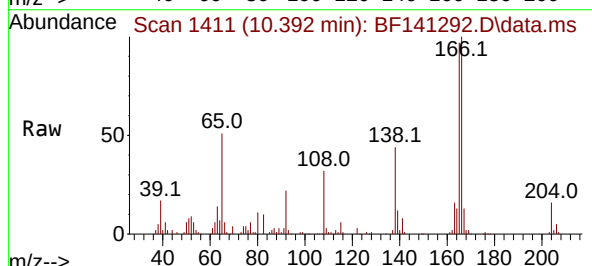
Manual Integrations
APPROVED

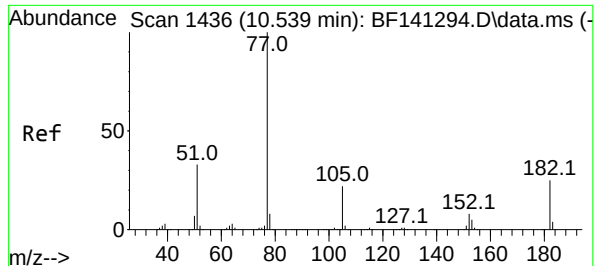
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#62
4-Nitroaniline
Concen: 10.533 ng
RT: 10.392 min Scan# 1411
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Tgt Ion:138 Resp: 45222
Ion Ratio Lower Upper
138 100
92 50.0 30.1 70.1
108 71.3 53.1 93.1





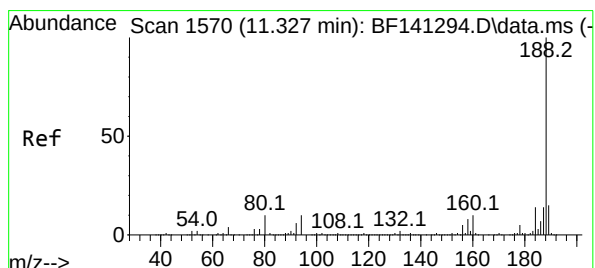
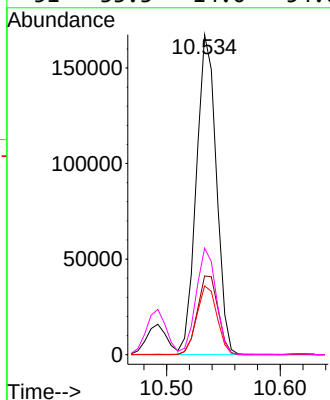
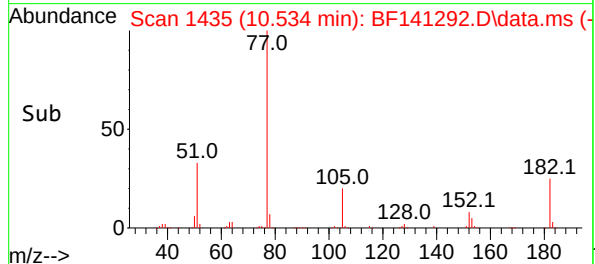
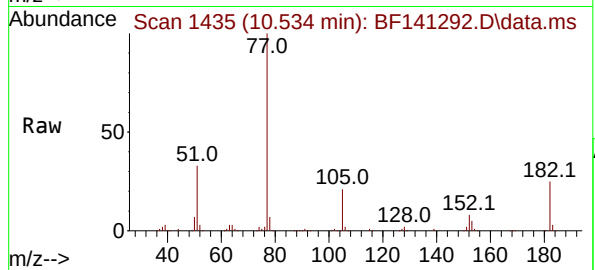
#63
Azobenzene
Concen: 10.839 ng
RT: 10.534 min Scan# 1436
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

Instrument :
BNA_F
ClientSampleId :
SSTDICC010

Tgt Ion: 77 Resp: 204300
Ion Ratio Lower Upper
77 100
182 24.6 5.1 45.1
105 21.5 1.8 41.8
51 33.3 14.0 54.0

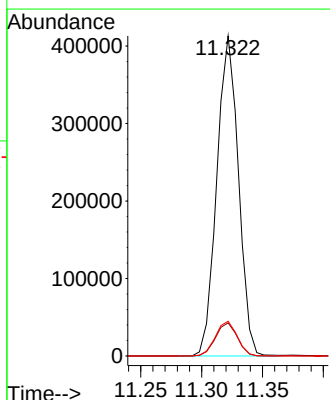
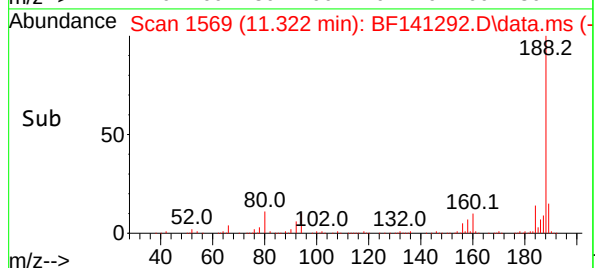
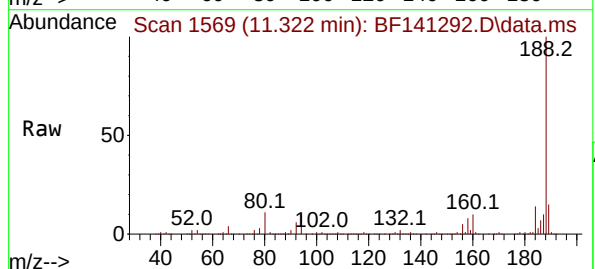
Manual Integrations
APPROVED

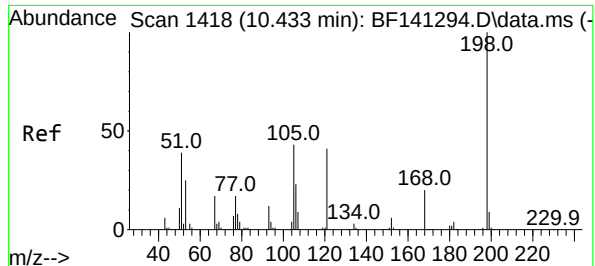
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

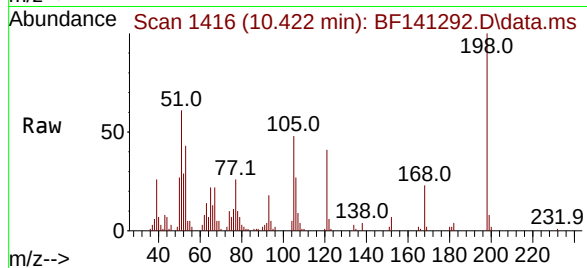
Tgt Ion:188 Resp: 510795
Ion Ratio Lower Upper
188 100
94 10.3 7.8 11.6
80 10.9 8.2 12.4





#65
4,6-Dinitro-2-methylphenol
Concen: 8.831 ng
RT: 10.422 min Scan# 1418
Delta R.T. -0.012 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

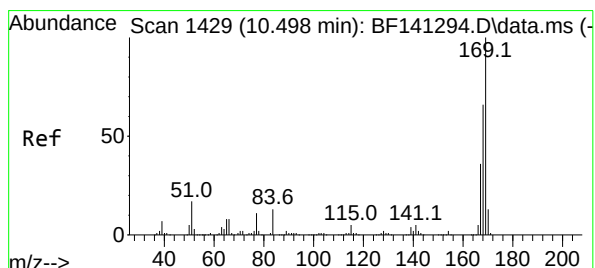
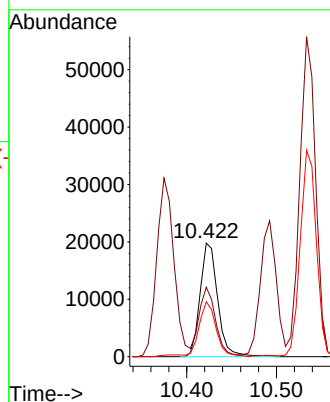
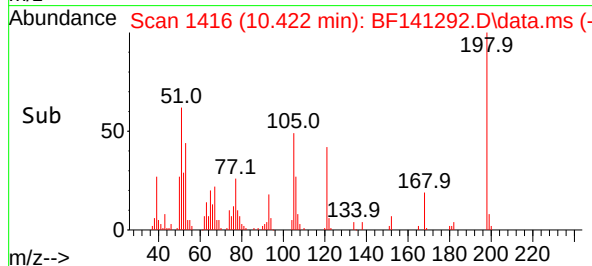
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:198 Resp: 26939
Ion Ratio Lower Upper
198 100
51 61.2 33.4 73.4
105 48.3 24.4 64.4

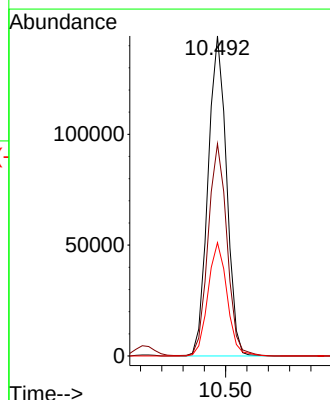
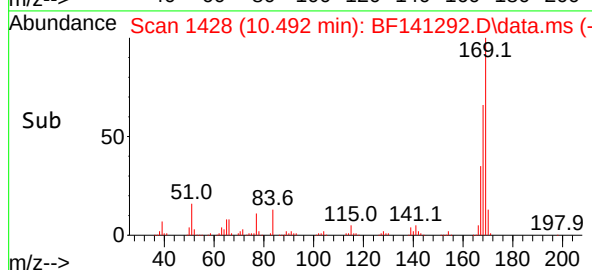
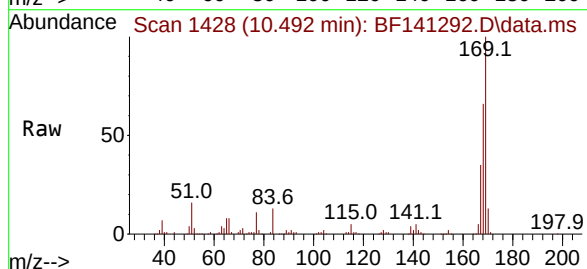
Manual Integrations
APPROVED

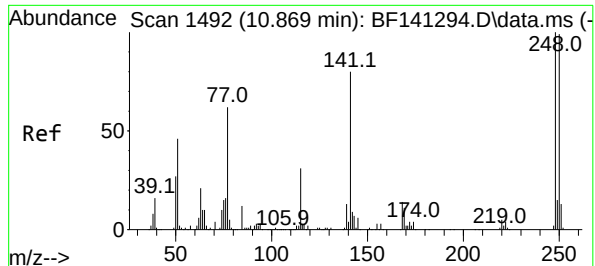
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#66
n-Nitrosodiphenylamine
Concen: 10.544 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

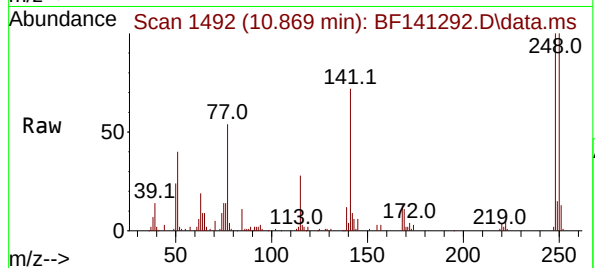
Tgt Ion:169 Resp: 174617
Ion Ratio Lower Upper
169 100
168 66.3 53.0 79.4
167 35.4 28.8 43.2





#67
4-Bromophenyl-phenylether
Concen: 10.468 ng
RT: 10.869 min Scan# 1492
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

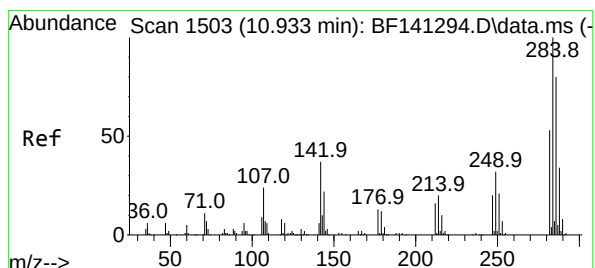
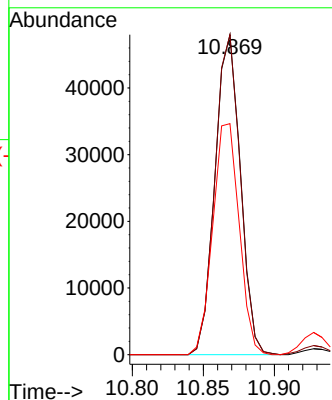
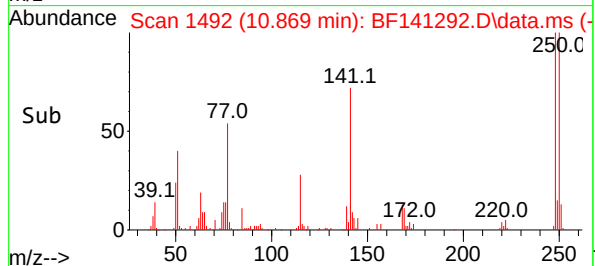
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



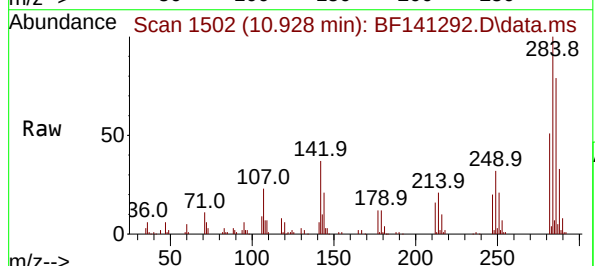
Tgt Ion:248 Resp: 59770
Ion Ratio Lower Upper
248 100
250 100.0 79.0 118.4
141 72.2 63.7 95.5

Manual Integrations
APPROVED

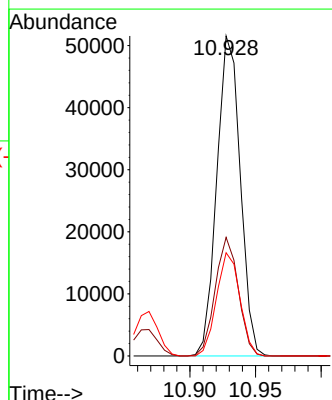
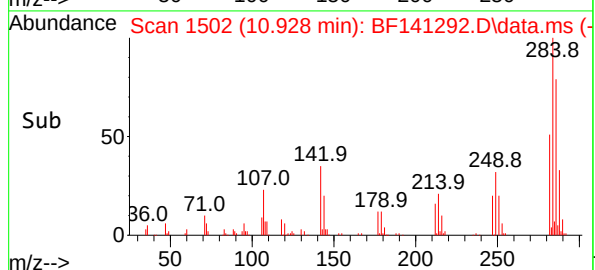
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

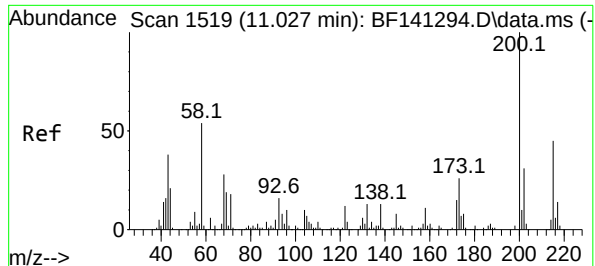


#68
Hexachlorobenzene
Concen: 10.551 ng
RT: 10.928 min Scan# 1502
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49



Tgt Ion:284 Resp: 63908
Ion Ratio Lower Upper
284 100
142 37.0 29.5 44.3
249 32.2 25.4 38.2





#69

Atrazine

Concen: 9.295 ng

RT: 11.016 min Scan# 1517

Delta R.T. -0.012 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

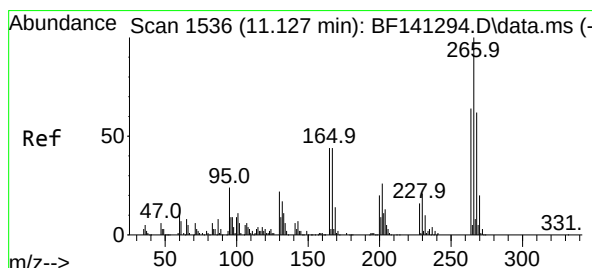
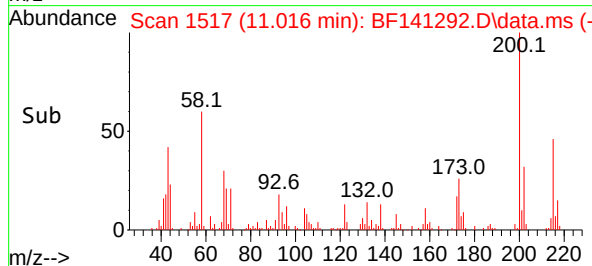
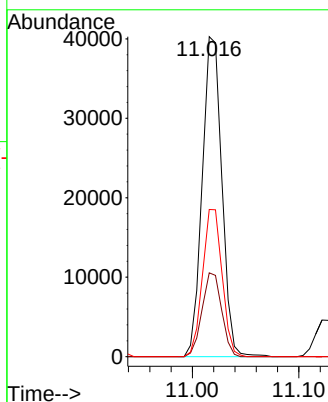
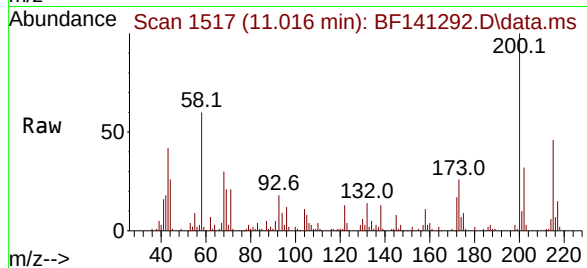
Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion	200	Resp	5163
Ion Ratio	Lower	Upper	
200	100		
173	26.2	5.9	45.9
215	46.0	25.2	65.2

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

#70

Pentachlorophenol

Concen: 9.796 ng

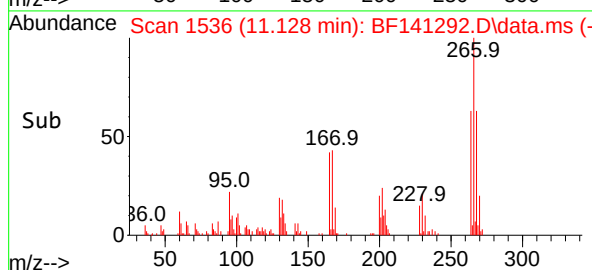
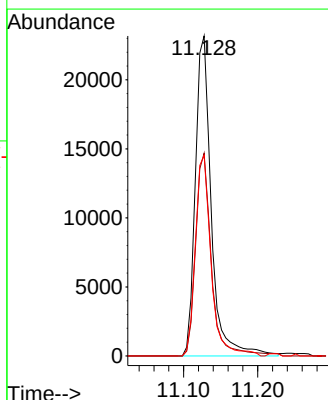
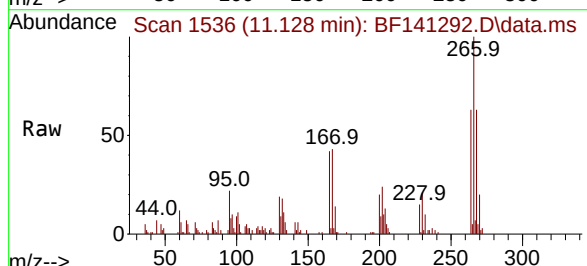
RT: 11.128 min Scan# 1536

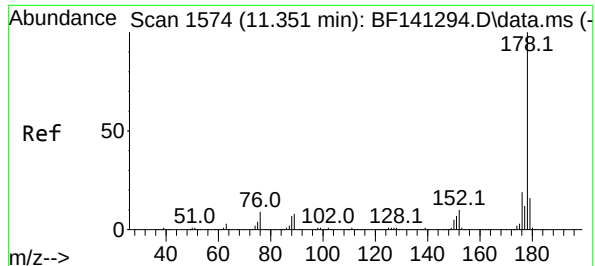
Delta R.T. 0.000 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Tgt Ion	266	Resp	34788
Ion Ratio	Lower	Upper	
266	100		
268	63.4	49.9	74.9
264	62.7	51.0	76.4





#71

Phenanthrene

Concen: 10.893 ng

RT: 11.345 min Scan# 1573

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:178 Resp: 298892

Ion Ratio Lower Upper

178 100

176 18.6 15.3 22.9

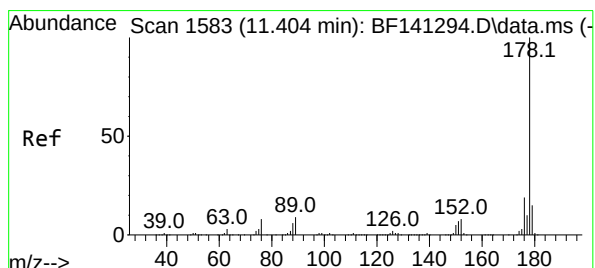
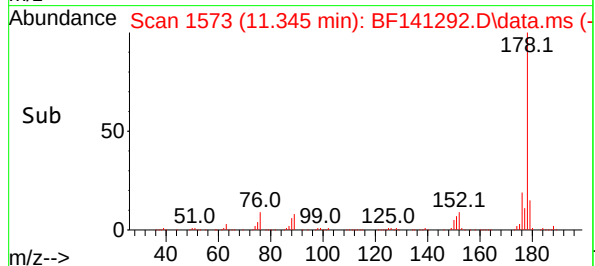
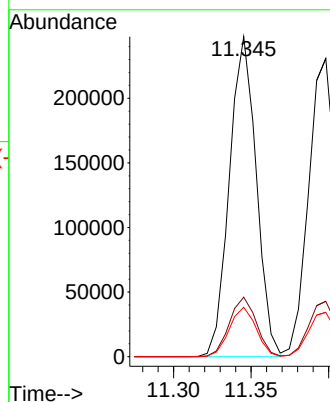
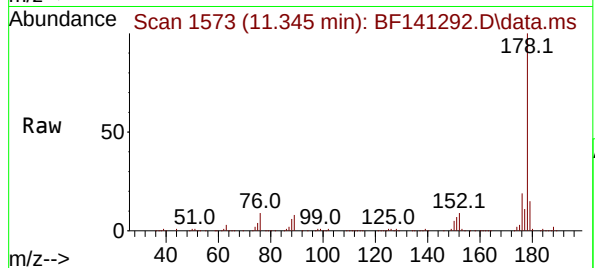
179 15.4 12.5 18.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#72

Anthracene

Concen: 10.940 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

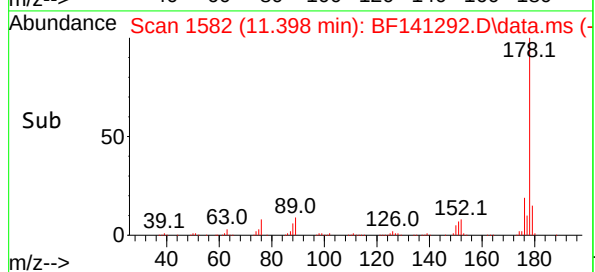
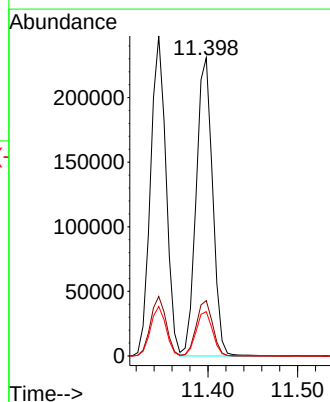
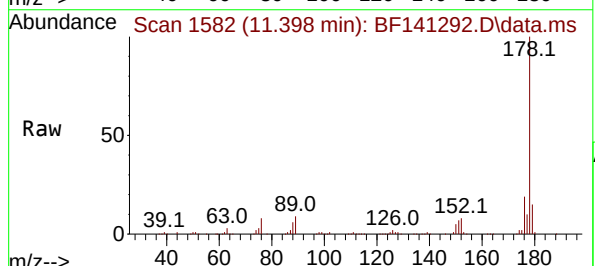
Tgt Ion:178 Resp: 292813

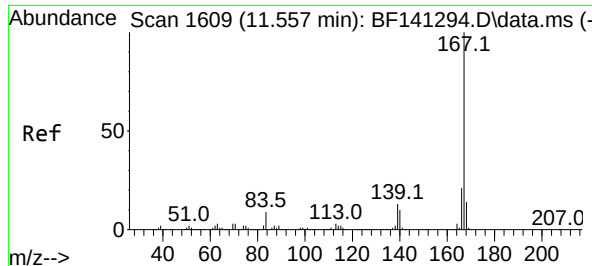
Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.6

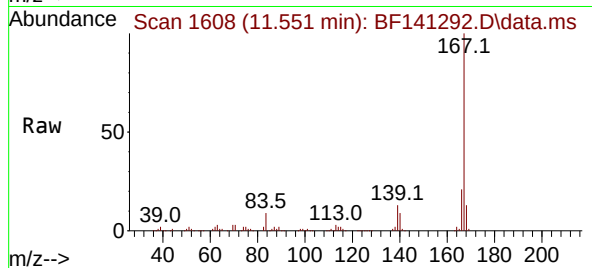
179 14.9 12.3 18.5





#73
Carbazole
Concen: 10.919 ng
RT: 11.551 min Scan# 1608
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

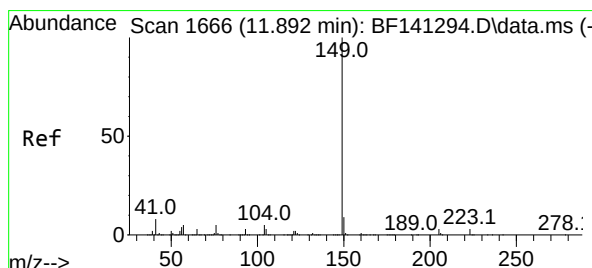
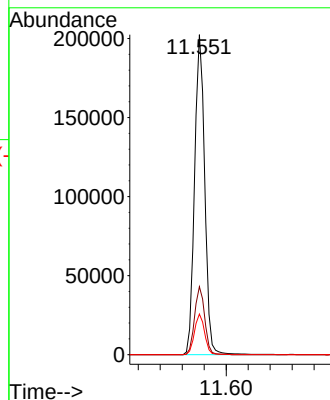
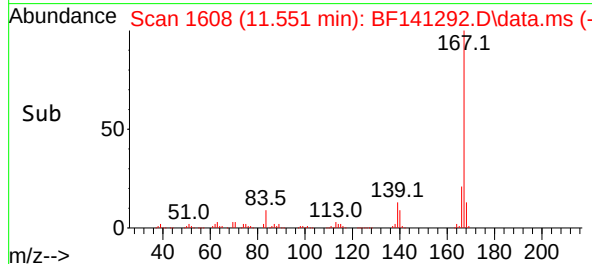
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:167 Resp: 25885
Ion Ratio Lower Upper
167 100
166 21.2 17.0 25.6
139 12.7 10.6 16.0

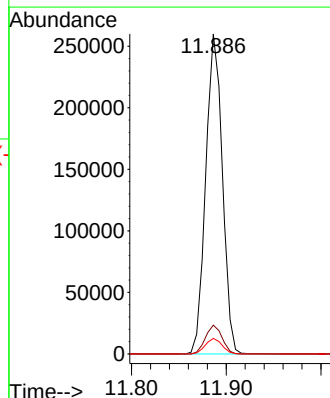
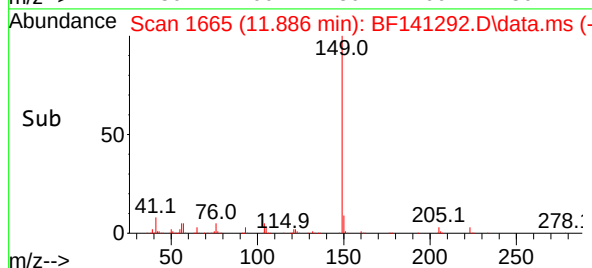
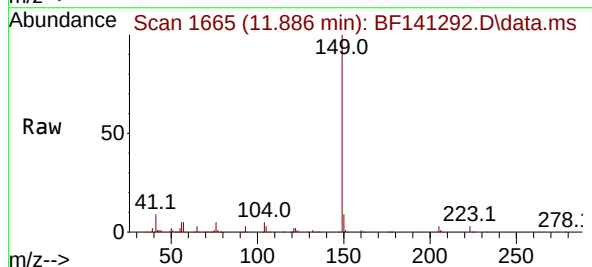
Manual Integrations
APPROVED

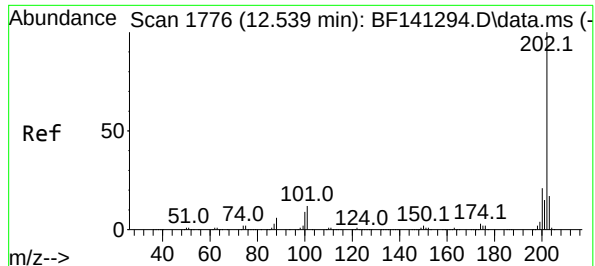
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#74
Di-n-butylphthalate
Concen: 11.070 ng
RT: 11.886 min Scan# 1665
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

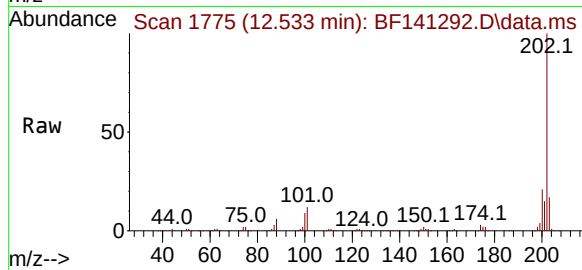
Tgt Ion:149 Resp: 316336
Ion Ratio Lower Upper
149 100
150 9.0 7.4 11.2
104 4.9 3.9 5.9





#75
Fluoranthene
Concen: 11.462 ng
RT: 12.533 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

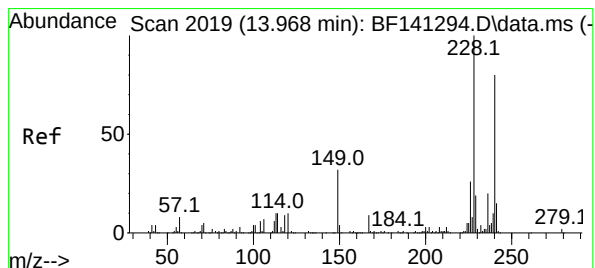
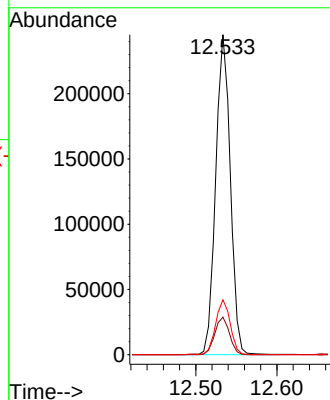
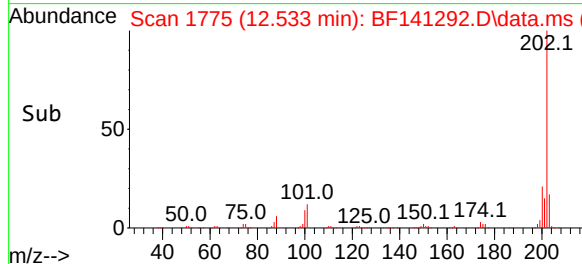
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



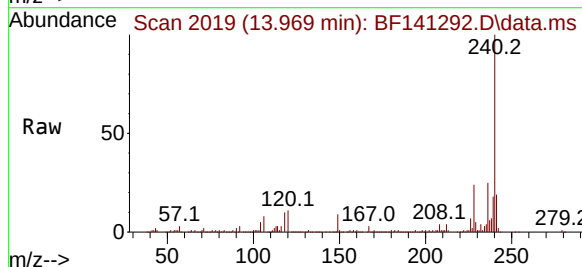
Tgt Ion:202 Resp: 30696
Ion Ratio Lower Upper
202 100
101 11.8 0.0 31.7
203 17.1 0.0 37.5

Manual Integrations
APPROVED

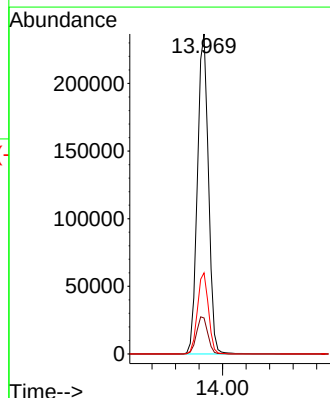
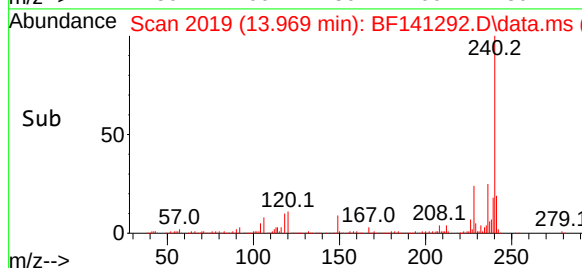
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

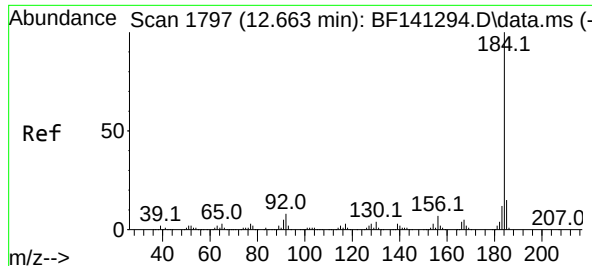


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.969 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49



Tgt Ion:240 Resp: 308114
Ion Ratio Lower Upper
240 100
120 11.2 10.0 15.0
236 25.4 19.7 29.5





#77

Benzidine

Concen: 7.890 ng

RT: 12.657 min Scan# 1796

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

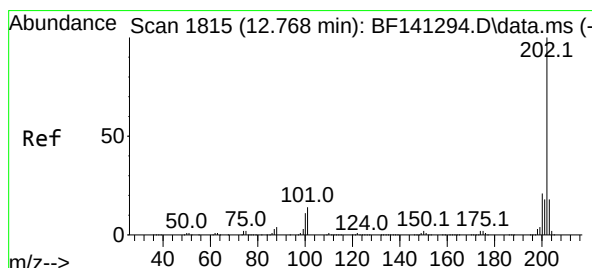
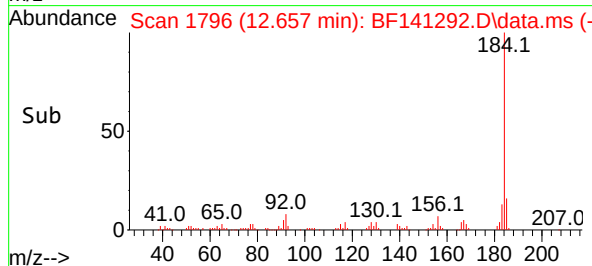
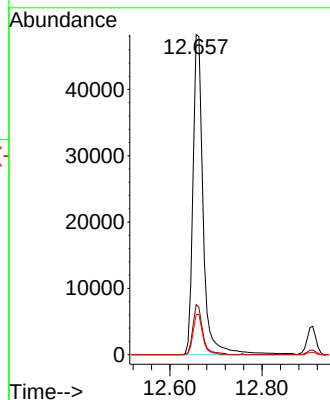
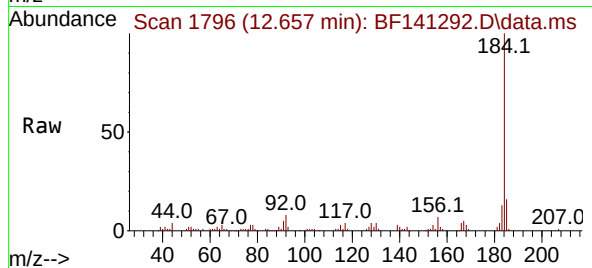
SSTDICC010

Tgt Ion:	184	Resp:	73918
Ion Ratio	Lower	Upper	
184	100		
185	15.6	11.9	17.9
183	12.6	9.5	14.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#78

Pyrene

Concen: 10.681 ng

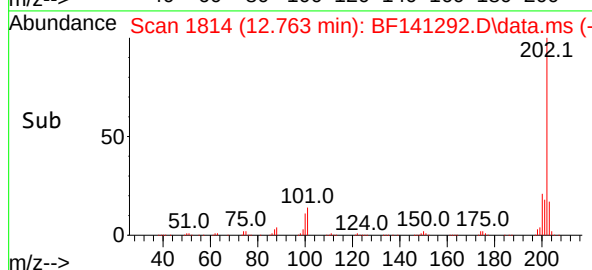
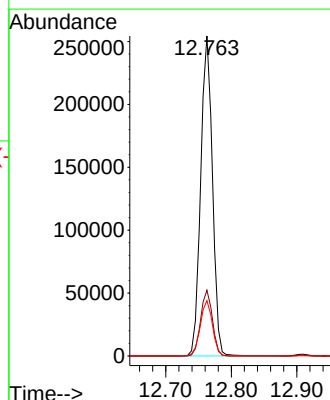
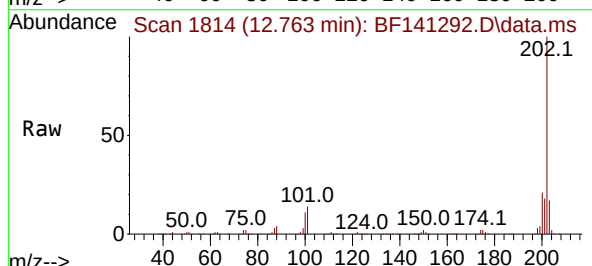
RT: 12.763 min Scan# 1814

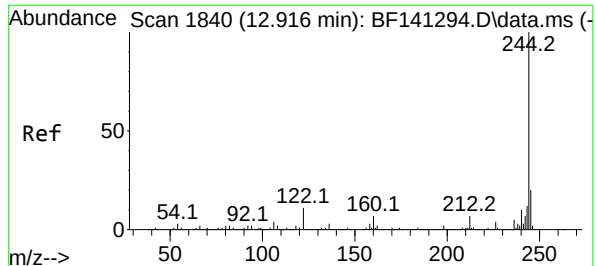
Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Tgt Ion:	202	Resp:	317744
Ion Ratio	Lower	Upper	
202	100		
200	20.5	17.0	25.4
203	17.3	14.3	21.5





#79

Terphenyl-d14

Concen: 21.713 ng

RT: 12.910 min Scan# 1839

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:244 Resp: 43478

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

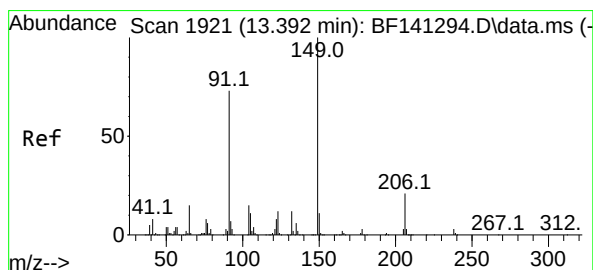
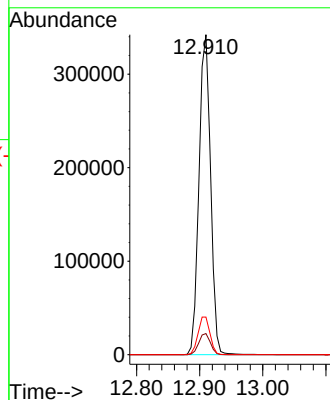
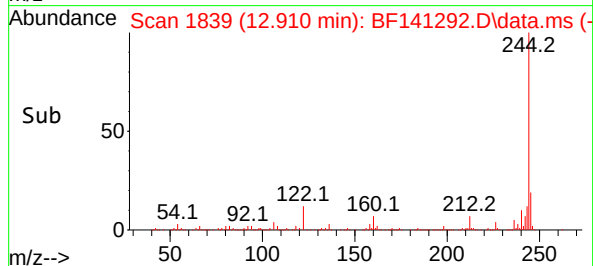
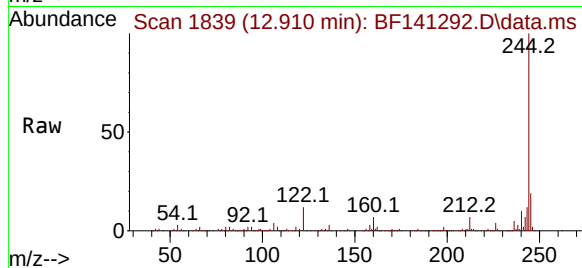
122 11.7 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#80

Butylbenzylphthalate

Concen: 10.349 ng

RT: 13.386 min Scan# 1920

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

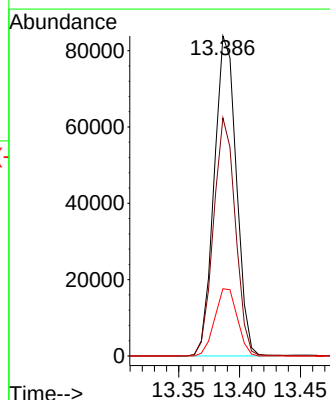
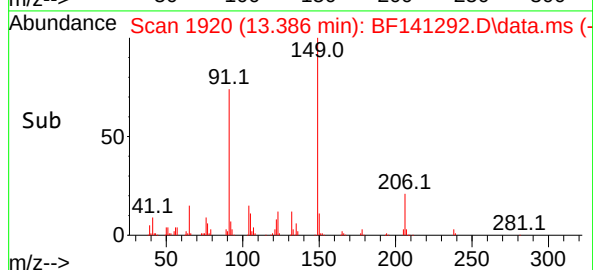
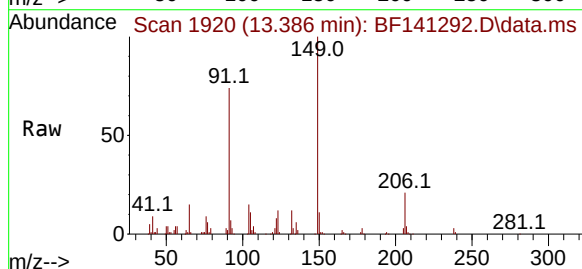
Tgt Ion:149 Resp: 106335

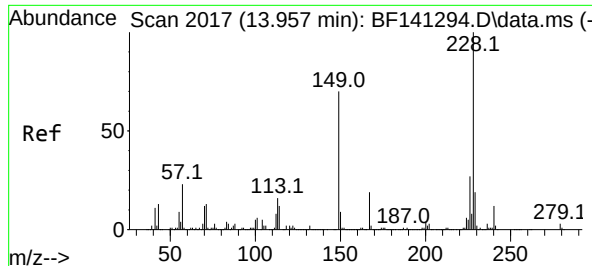
Ion Ratio Lower Upper

149 100

91 74.4 58.6 87.8

206 21.0 16.7 25.1





#81

Benzo(a)anthracene

Concen: 10.289 ng

RT: 13.957 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BF141292.D

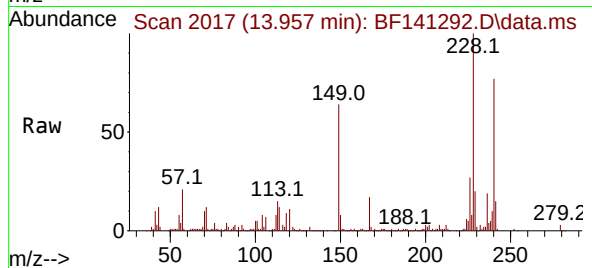
Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010



Tgt Ion:228 Resp: 21729

Ion Ratio Lower Upper

228 100

226 27.1 21.4 32.2

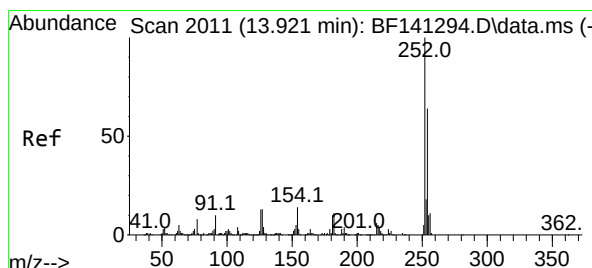
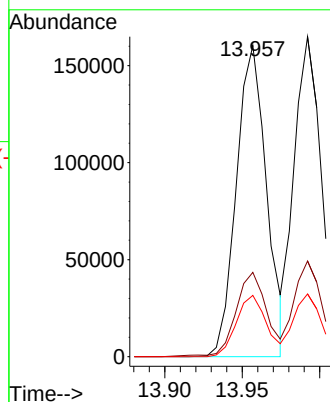
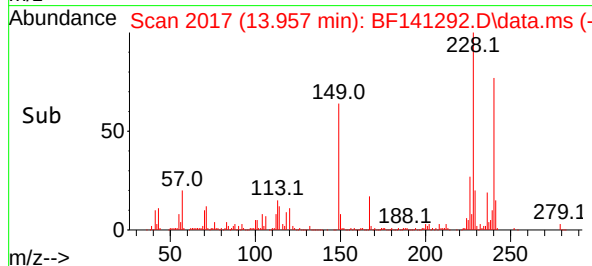
229 19.7 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#82

3,3'-Dichlorobenzidine

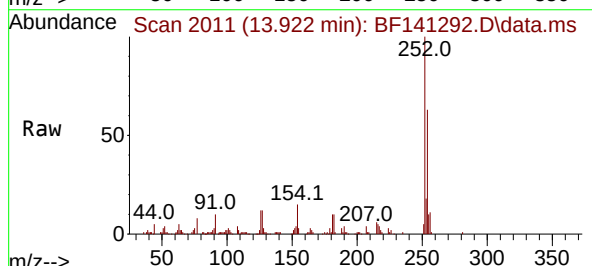
Concen: 9.833 ng

RT: 13.922 min Scan# 2011

Delta R.T. 0.000 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49



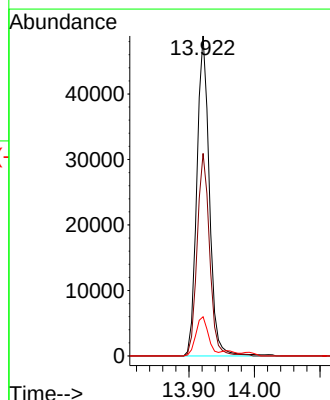
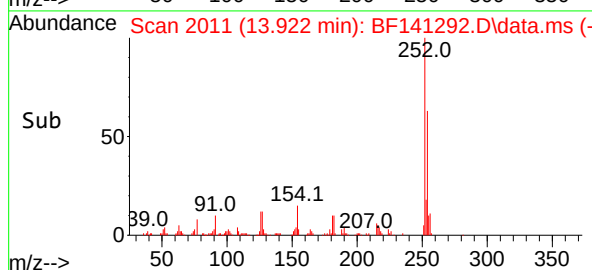
Tgt Ion:252 Resp: 65021

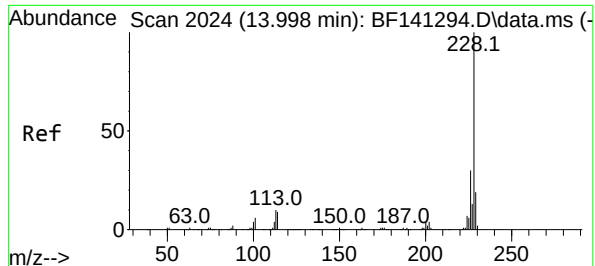
Ion Ratio Lower Upper

252 100

254 63.3 51.3 76.9

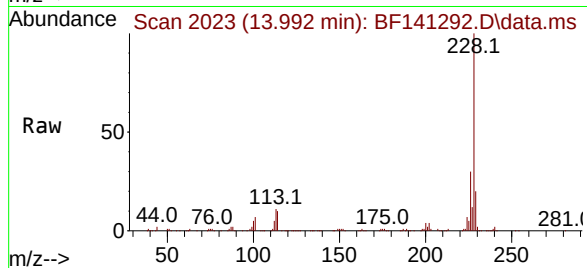
126 12.2 10.0 15.0





#83
Chrysene
Concen: 10.421 ng
RT: 13.992 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

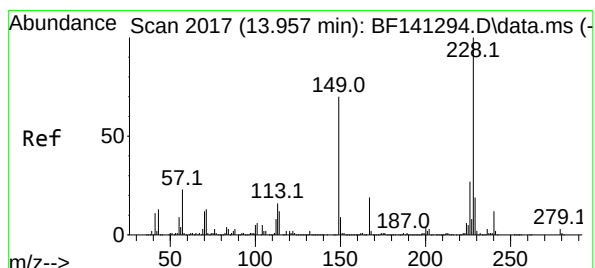
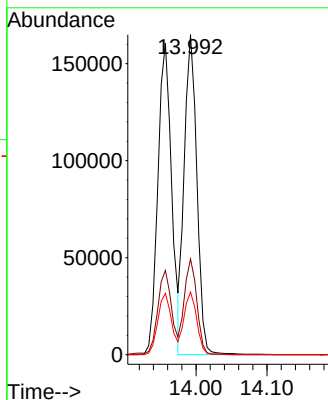
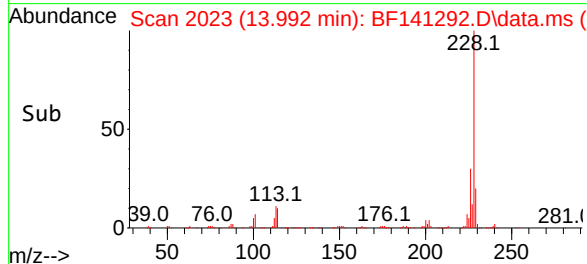
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



Tgt Ion:228 Resp: 204080
Ion Ratio Lower Upper
228 100
226 29.9 24.1 36.1
229 19.6 15.6 23.4

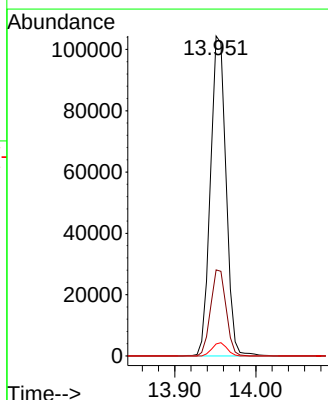
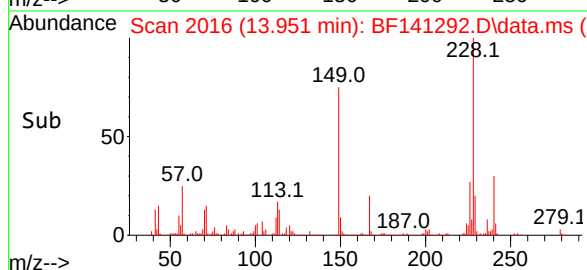
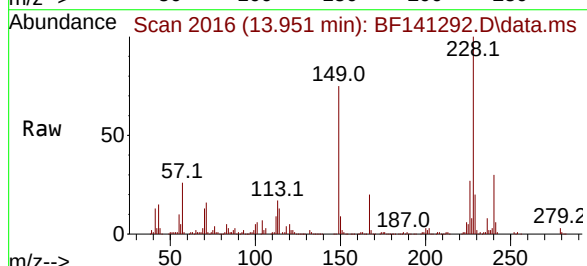
Manual Integrations
APPROVED

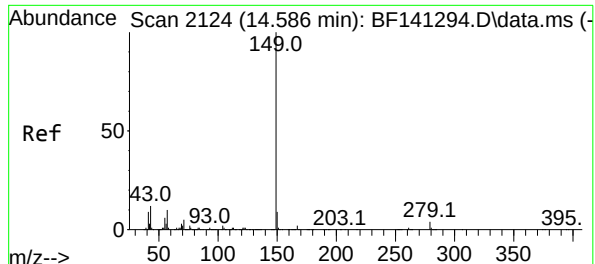
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#84
Bis(2-ethylhexyl)phthalate
Concen: 10.789 ng
RT: 13.951 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

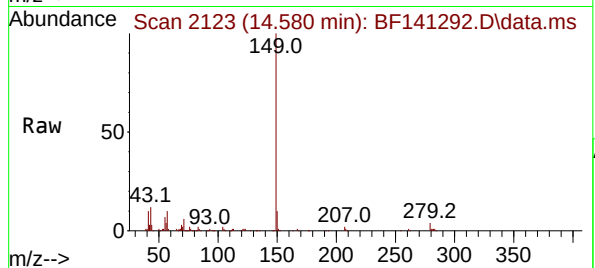
Tgt Ion:149 Resp: 139099
Ion Ratio Lower Upper
149 100
167 26.9 21.8 32.8
279 3.8 3.3 4.9





#85
Di-n-octyl phthalate
Concen: 9.676 ng
RT: 14.580 min Scan# 2124
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49

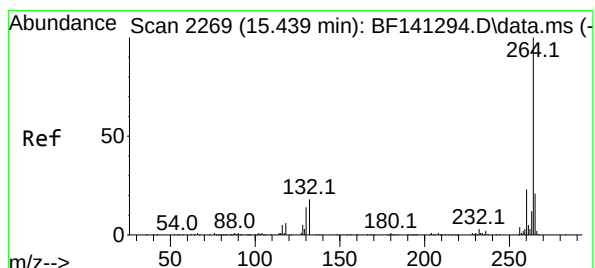
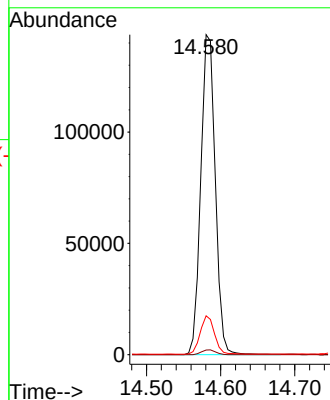
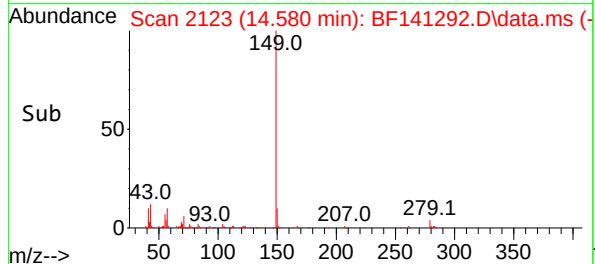
Instrument :
BNA_F
ClientSampleId :
SSTDICC010



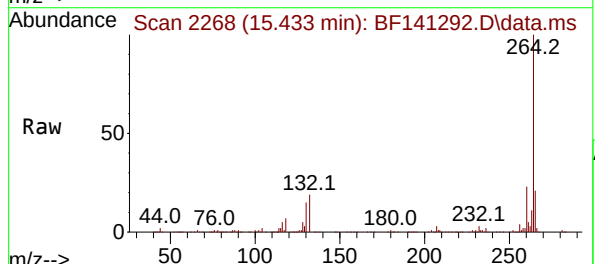
Tgt Ion:149 Resp: 195129
Ion Ratio Lower Upper
149 100
167 1.5 1.3 1.9
43 11.8 9.8 14.8

Manual Integrations
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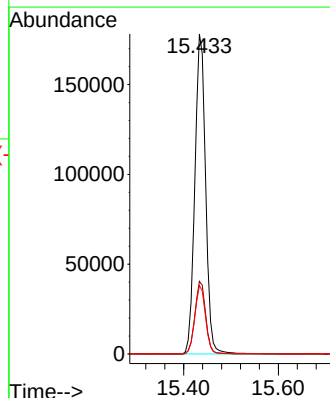
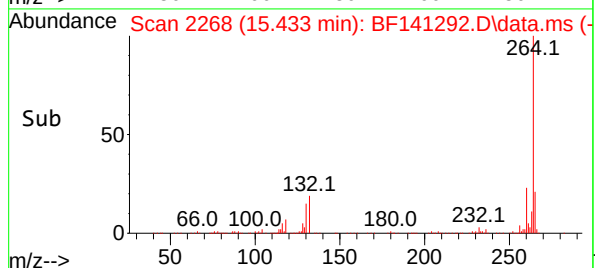
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

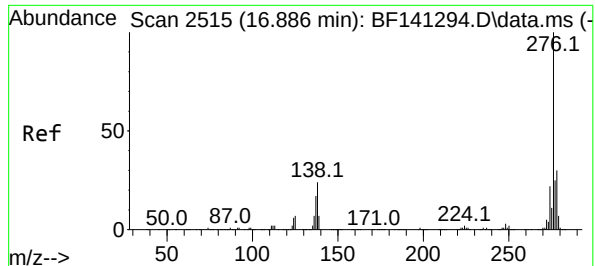


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.433 min Scan# 2268
Delta R.T. -0.006 min
Lab File: BF141292.D
Acq: 29 Jan 2025 11:49



Tgt Ion:264 Resp: 280028
Ion Ratio Lower Upper
264 100
260 22.7 18.6 27.8
265 21.3 16.7 25.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 9.708 ng

RT: 16.874 min Scan# 2196

Delta R.T. -0.012 min

Lab File: BF141292.D

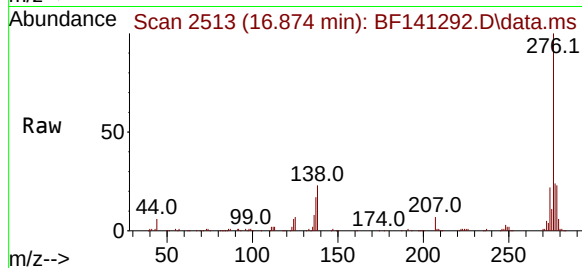
Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDICC010



Tgt Ion:276 Resp: 177554

Ion Ratio Lower Upper

276 100

138 27.1 21.7 32.5

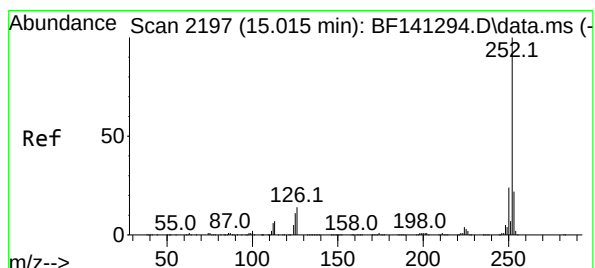
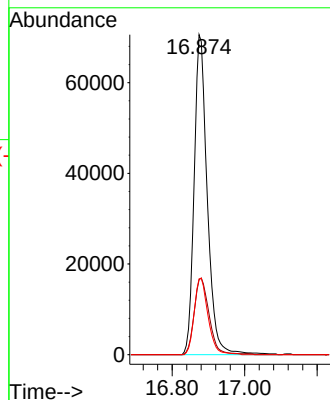
277 25.1 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#88

Benzo(b)fluoranthene

Concen: 11.130 ng

RT: 15.010 min Scan# 2196

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

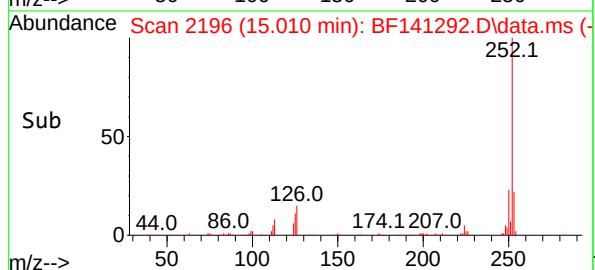
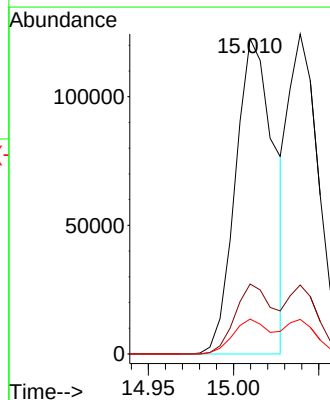
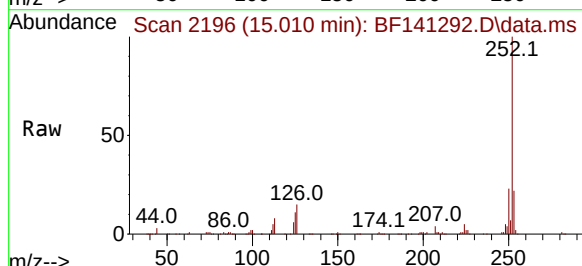
Tgt Ion:252 Resp: 193558

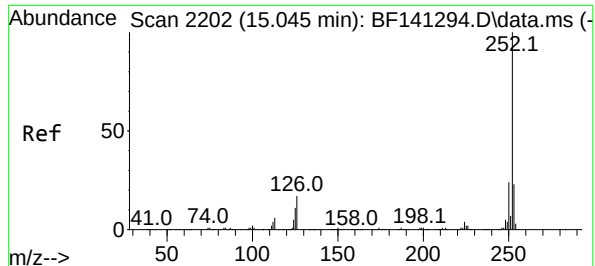
Ion Ratio Lower Upper

252 100

253 22.2 17.4 26.2

125 11.1 8.6 12.8





#89

Benzo(k)fluoranthene

Concen: 10.012 ng

RT: 15.039 min Scan# 2201

Delta R.T. -0.006 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Instrument :

BNA_F

ClientSampleId :

SSTDIC010

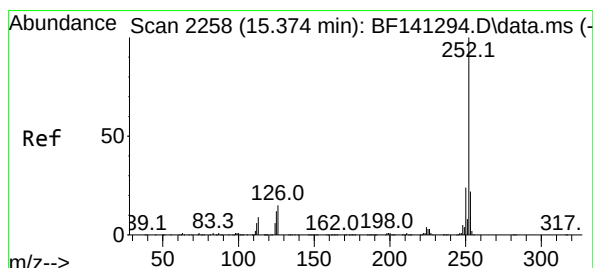
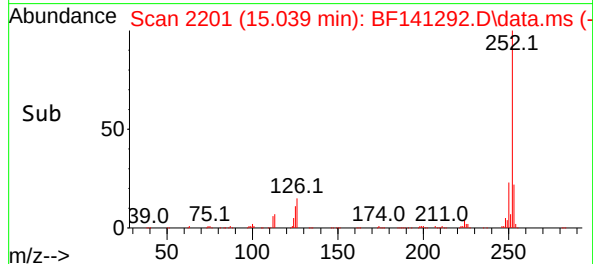
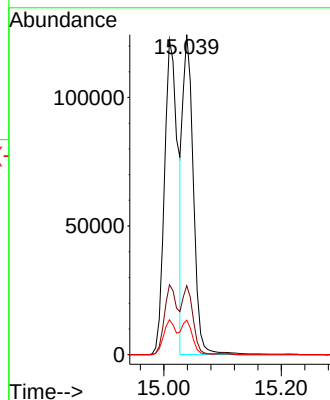
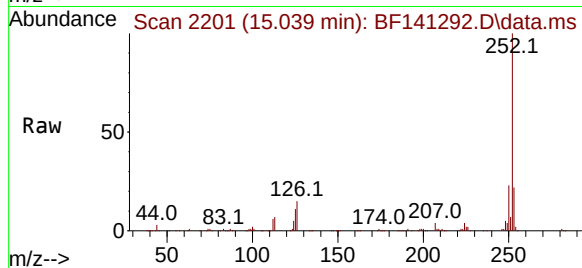
Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.6	26.4
125	10.8	8.4	12.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#90

Benzo(a)pyrene

Concen: 9.972 ng

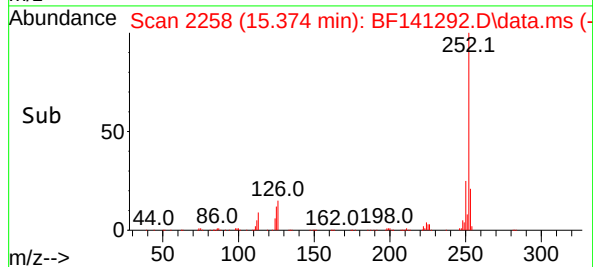
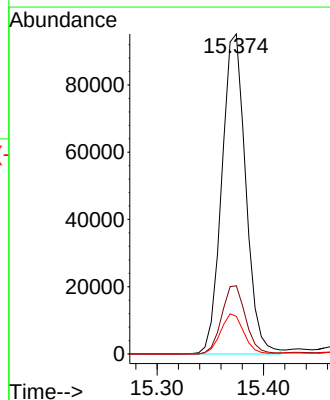
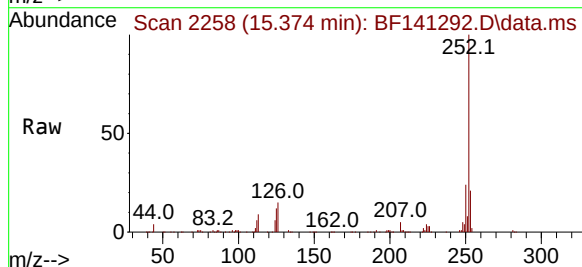
RT: 15.374 min Scan# 2258

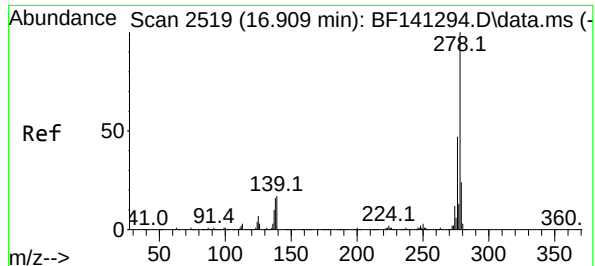
Delta R.T. 0.000 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.3	17.2	25.8
125	11.7	9.4	14.2





#91

Dibenzo(a,h)anthracene

Concen: 9.559 ng

RT: 16.898 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

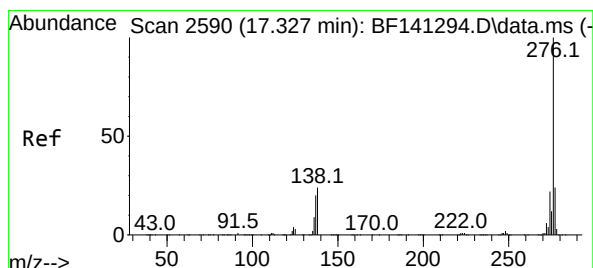
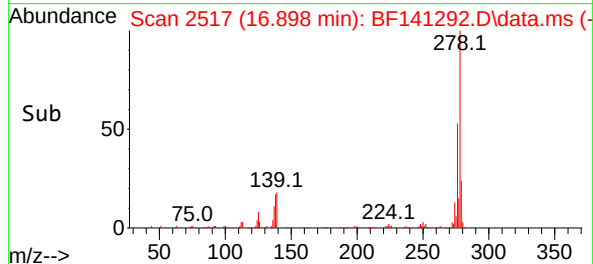
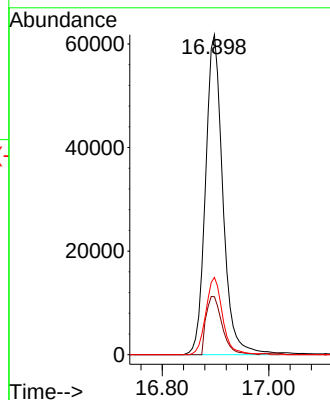
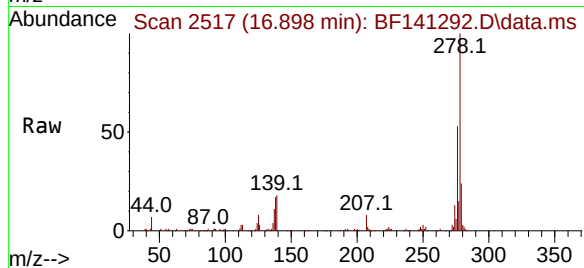
Instrument :

BNA_F

ClientSampleId :

SSTDICC010

Tgt Ion:	278	Resp:	14014
Ion Ratio	Lower	Upper	
278	100		
139	18.1	13.9	20.9
279	24.2	18.8	28.2

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

#92

Benzo(g,h,i)perylene

Concen: 9.756 ng

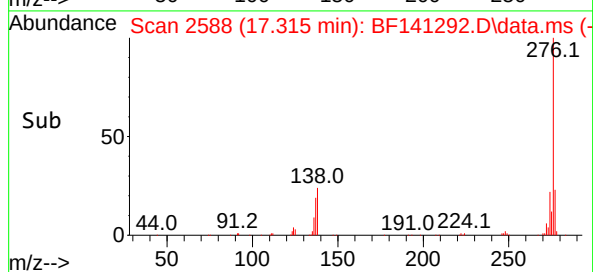
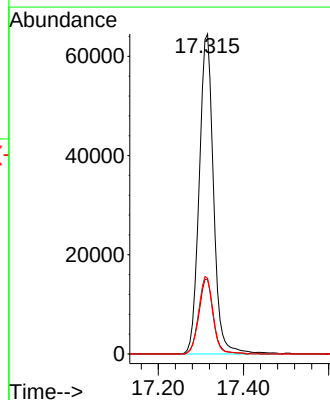
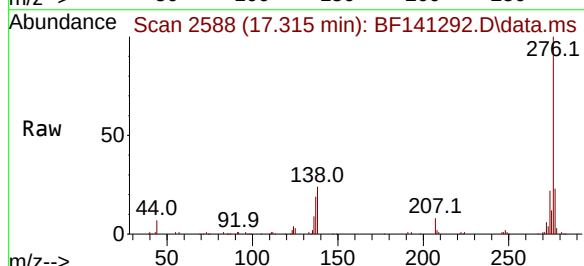
RT: 17.315 min Scan# 2588

Delta R.T. -0.012 min

Lab File: BF141292.D

Acq: 29 Jan 2025 11:49

Tgt Ion:	276	Resp:	150453
Ion Ratio	Lower	Upper	
276	100		
277	23.3	19.2	28.8
138	23.6	19.0	28.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
 Data File : BF141293.D
 Acq On : 29 Jan 2025 15:17
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 16:29:32 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 16:24:35 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	136491	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	532862	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	293084	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	511320	20.000	ng	0.00
76) Chrysene-d12	13.974	240	314234	20.000	ng	0.00
86) Perylene-d12	15.457	264	289582	20.000	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.398	112	382610	43.351	ng	0.00
7) Phenol-d6	6.422	99	475876	42.305	ng	0.00
23) Nitrobenzene-d5	7.357	82	432160	42.912	ng	0.00
42) 2,4,6-Tribromophenol	10.627	330	116167	43.498	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	819371	43.127	ng	0.00
79) Terphenyl-d14	12.916	244	860956	42.159	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	2.481	88	81467	20.794	ng	98
3) Pyridine	3.210	79	197852	21.116	ng	99
4) n-Nitrosodimethylamine	3.152	42	112451	20.957	ng	98
6) Aniline	6.457	93	210459	22.385	ng	99
8) 2-Chlorophenol	6.581	128	203008	21.418	ng	96
9) Benzaldehyde	6.345	77	150675	23.065	ng	100
10) Phenol	6.434	94	257179	21.611	ng	98
11) bis(2-Chloroethyl)ether	6.534	93	194572	21.260	ng	98
12) 1,3-Dichlorobenzene	6.739	146	224880	21.512	ng	99
13) 1,4-Dichlorobenzene	6.816	146	226376	21.503	ng	99
14) 1,2-Dichlorobenzene	6.969	146	213616	21.714	ng	99
15) Benzyl Alcohol	6.934	79	166008	21.602	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.075	45	340590	21.420	ng	100
17) 2-Methylphenol	7.045	107	165188	21.525	ng	99
18) Hexachloroethane	7.310	117	83193	21.359	ng	99
19) n-Nitroso-di-n-propyla...	7.204	70	140874	21.058	ng	99
20) 3+4-Methylphenols	7.198	107	205070	21.734	ng	96
22) Acetophenone	7.204	105	275680	21.825	ng	100
24) Nitrobenzene	7.381	77	224061	21.451	ng	98
25) Isophorone	7.616	82	369998	21.259	ng	99
26) 2-Nitrophenol	7.698	139	106287	21.725	ng	98
27) 2,4-Dimethylphenol	7.734	122	132748m	21.233	ng	
28) bis(2-Chloroethoxy)met...	7.828	93	237369	21.403	ng	98
29) 2,4-Dichlorophenol	7.934	162	166153	21.750	ng	100
30) 1,2,4-Trichlorobenzene	8.022	180	188468	21.511	ng	99
31) Naphthalene	8.104	128	607622	21.681	ng	100
32) Benzoic acid	7.816	122	126734	22.321	ng	99
33) 4-Chloroaniline	8.151	127	208531	22.151	ng	99
34) Hexachlorobutadiene	8.222	225	111274	21.699	ng	97
35) Caprolactam	8.498	113	54280	21.968	ng	99
36) 4-Chloro-3-methylphenol	8.628	107	177981	21.708	ng	99
37) 2-Methylnaphthalene	8.792	142	386035	21.630	ng	100
38) 1-Methylnaphthalene	8.892	142	378878	21.671	ng	100
40) 1,2,4,5-Tetrachloroben...	8.957	216	176736	21.209	ng	99
41) Hexachlorocyclopentadiene	8.945	237	51112	20.438	ng	100
43) 2,4,6-Trichlorophenol	9.069	196	114390	21.029	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
 Data File : BF141293.D
 Acq On : 29 Jan 2025 15:17
 Operator : RC/JU
 Sample : SSTDICC020
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 16:29:32 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 16:24:35 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	125725	21.245	ng	98
46) 1,1'-Biphenyl	9.257	154	483479	21.145	ng	100
47) 2-Chloronaphthalene	9.281	162	377946	21.282	ng	99
48) 2-Nitroaniline	9.375	65	119359	21.310	ng	98
49) Acenaphthylene	9.698	152	531957	21.328	ng	99
50) Dimethylphthalate	9.557	163	423377	21.542	ng	100
51) 2,6-Dinitrotoluene	9.622	165	97622	21.345	ng	96
52) Acenaphthene	9.869	154	378511	21.328	ng	99
53) 3-Nitroaniline	9.786	138	100085	22.123	ng	98
54) 2,4-Dinitrophenol	9.892	184	40003	18.557	ng #	86
55) Dibenzofuran	10.039	168	514223	21.665	ng	100
56) 4-Nitrophenol	9.945	139	73425	22.607	ng	97
57) 2,4-Dinitrotoluene	10.022	165	129942	22.027	ng	98
58) Fluorene	10.386	166	396520	21.488	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.157	232	99841	21.354	ng	99
60) Diethylphthalate	10.257	149	413889	21.745	ng	99
61) 4-Chlorophenyl-phenyle...	10.380	204	193134	21.446	ng	99
62) 4-Nitroaniline	10.398	138	96692	22.250	ng	98
63) Azobenzene	10.539	77	407492	21.358	ng	99
65) 4,6-Dinitro-2-methylph...	10.427	198	62572	20.492	ng	97
66) n-Nitrosodiphenylamine	10.498	169	344387	20.773	ng	100
67) 4-Bromophenyl-phenylether	10.869	248	119844	20.967	ng	98
68) Hexachlorobenzene	10.933	284	126823	20.917	ng	99
69) Atrazine	11.022	200	109133	19.627	ng	99
70) Pentachlorophenol	11.127	266	74508	20.958	ng	98
71) Phenanthrene	11.351	178	584027	21.262	ng	100
72) Anthracene	11.398	178	572743	21.377	ng	100
73) Carbazole	11.557	167	522100	22.000	ng	99
74) Di-n-butylphthalate	11.892	149	636521	22.251	ng	100
75) Fluoranthene	12.539	202	611492	22.808	ng	100
77) Benzidine	12.663	184	65963	6.904	ng	99
78) Pyrene	12.769	202	629228	20.739	ng	99
80) Butylbenzylphthalate	13.392	149	232095	22.149	ng	99
81) Benzo(a)anthracene	13.968	228	456535	21.197	ng	99
82) 3,3'-Dichlorobenzidine	13.927	252	134298	19.914	ng	99
83) Chrysene	14.004	228	421849	21.122	ng	99
84) Bis(2-ethylhexyl)phtha...	13.963	149	300546	22.857	ng	99
85) Di-n-octyl phthalate	14.604	149	451748	21.964	ng	100
87) Indeno(1,2,3-cd)pyrene	16.909	276	387089	20.466	ng	99
88) Benzo(b)fluoranthene	15.033	252	384557	21.383	ng	99
89) Benzo(k)fluoranthene	15.062	252	368801	22.900	ng	99
90) Benzo(a)pyrene	15.392	252	327630	21.317	ng	99
91) Dibenzo(a,h)anthracene	16.927	278	318776	21.026	ng	100
92) Benzo(g,h,i)perylene	17.345	276	329876	20.684	ng	100

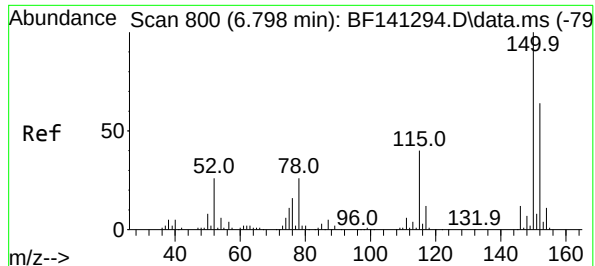
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Manual Integrations APPROVED

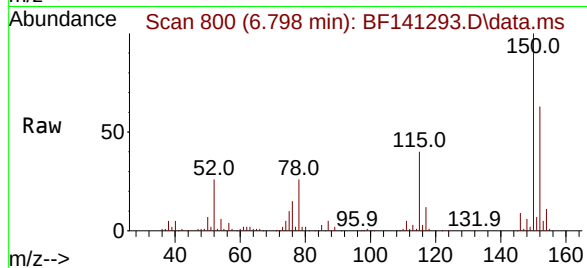
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

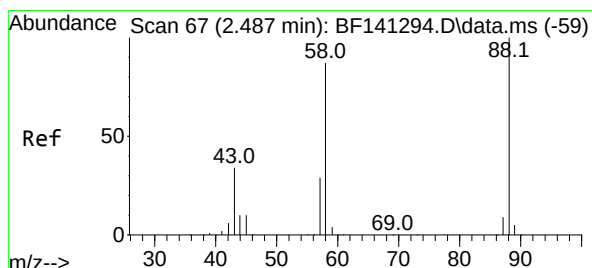
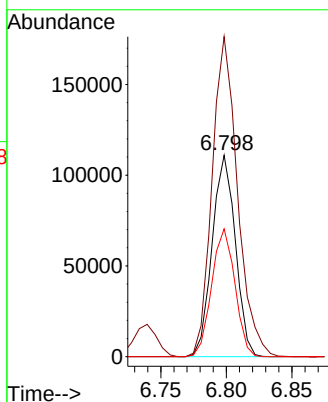
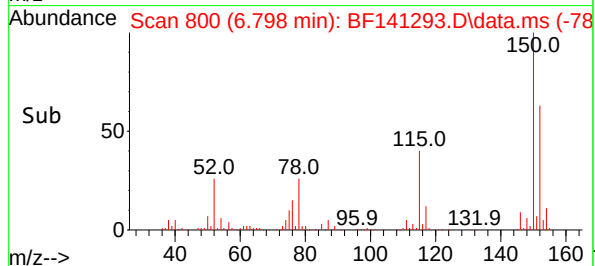
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion: 152 Resp: 13649
Ion Ratio Lower Upper
152 100
150 158.9 125.9 188.9
115 63.5 49.7 74.5

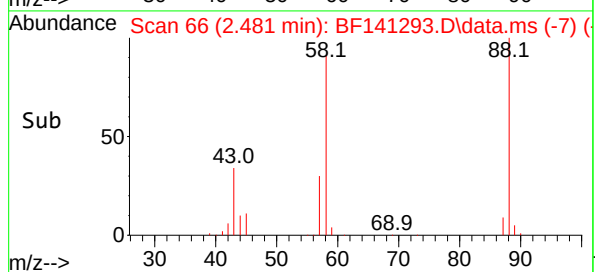
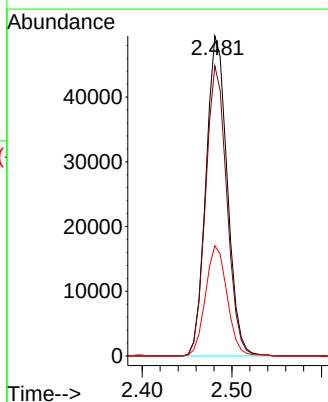
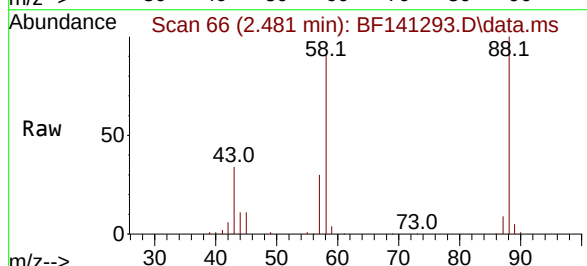
Manual Integrations
APPROVED

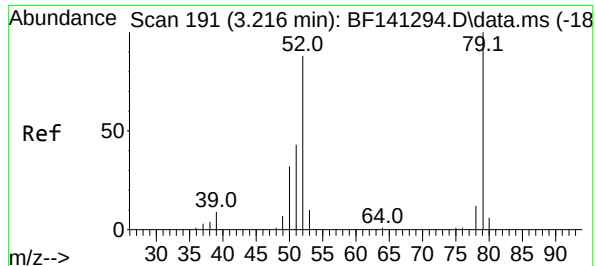
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#2
1,4-Dioxane
Concen: 20.794 ng
RT: 2.481 min Scan# 66
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 88 Resp: 81467
Ion Ratio Lower Upper
88 100
58 90.4 70.2 105.4
43 35.0 27.6 41.4





#3

Pyridine

Concen: 21.116 ng

RT: 3.210 min Scan# 191

Delta R.T. -0.006 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion: 79 Resp: 19785

Ion Ratio Lower Upper

79 100

52 87.6 70.3 105.5

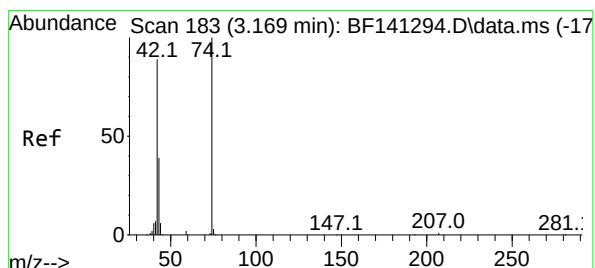
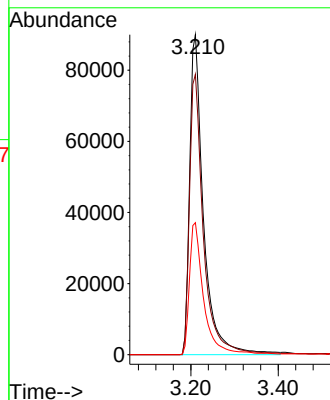
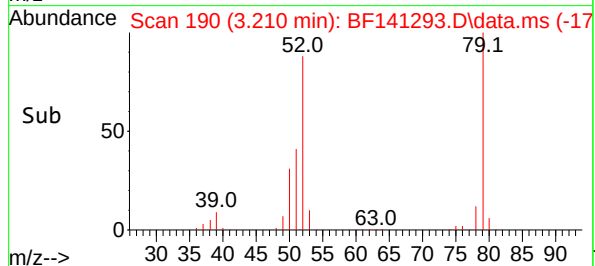
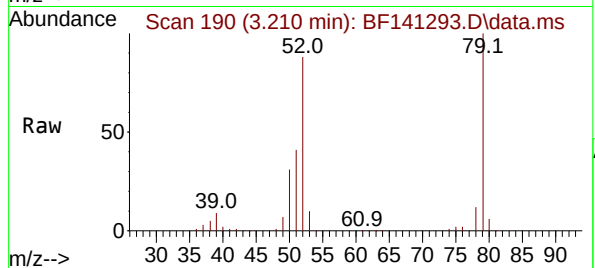
51 41.2 34.3 51.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#4

n-Nitrosodimethylamine

Concen: 20.957 ng

RT: 3.152 min Scan# 180

Delta R.T. -0.018 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

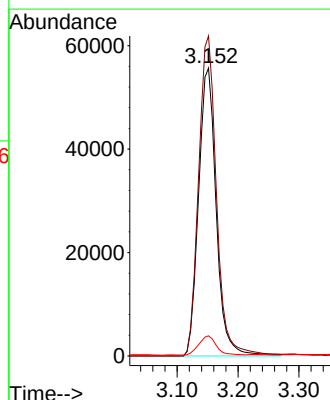
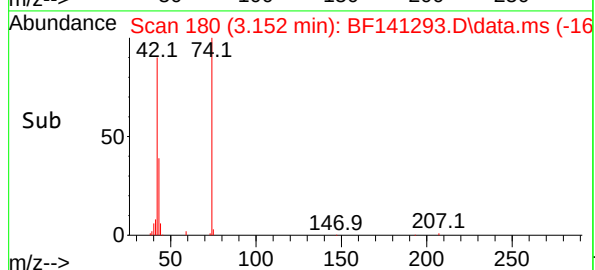
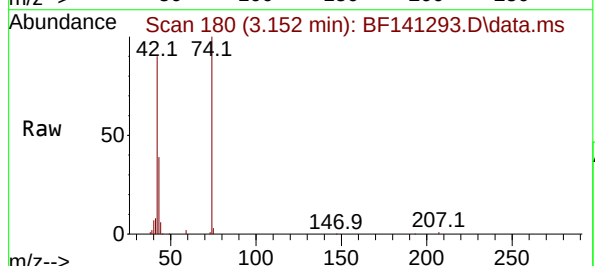
Tgt Ion: 42 Resp: 112451

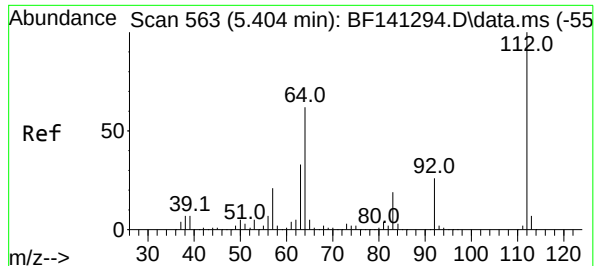
Ion Ratio Lower Upper

42 100

74 111.2 90.3 135.5

44 7.0 5.7 8.5





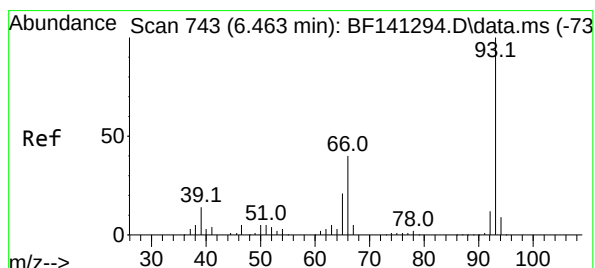
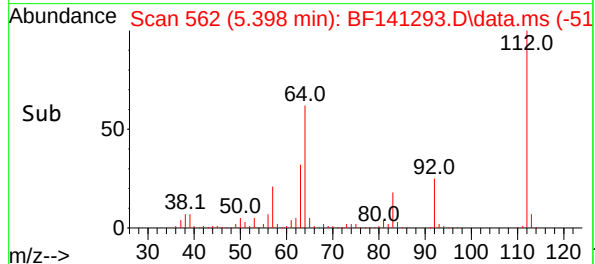
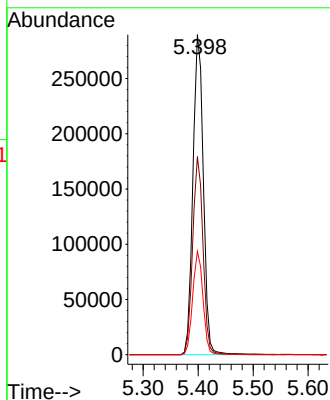
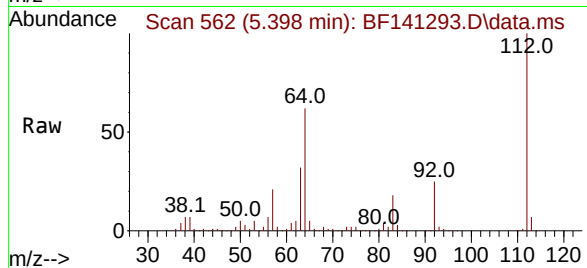
#5
2-Fluorophenol
Concen: 43.351 ng
RT: 5.398 min Scan# 501
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion:112 Resp: 382610
Ion Ratio Lower Upper
112 100
64 61.9 49.8 74.8
63 32.3 26.1 39.1

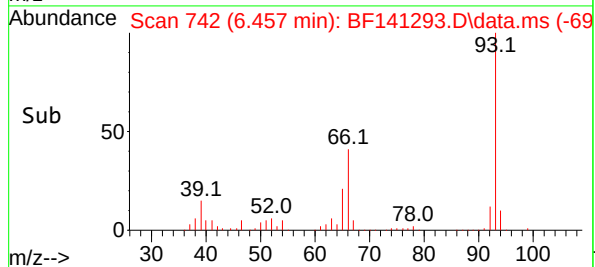
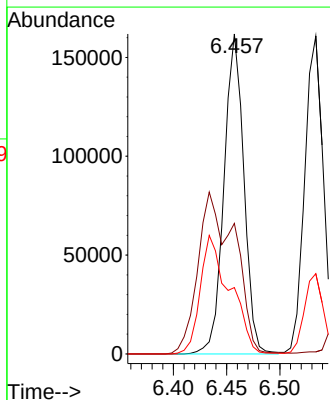
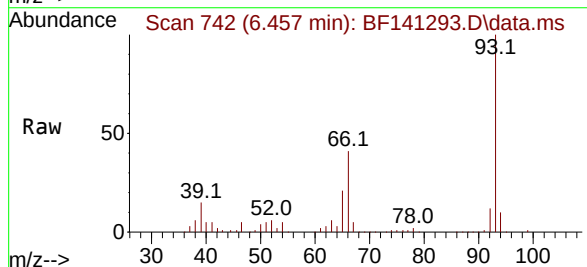
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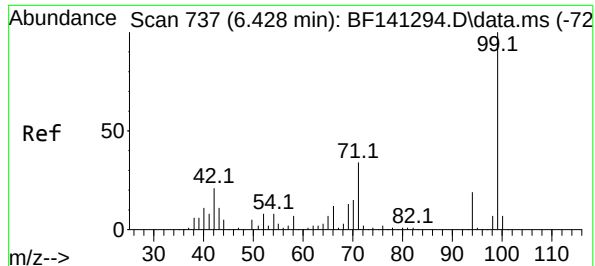
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#6
Aniline
Concen: 22.385 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 93 Resp: 210459
Ion Ratio Lower Upper
93 100
66 40.8 32.5 48.7
65 20.7 17.0 25.6





#7

Phenol-d6

Concen: 42.305 ng

RT: 6.422 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion: 99 Resp: 475870

Ion Ratio Lower Upper

99 100

42 20.9 17.1 25.7

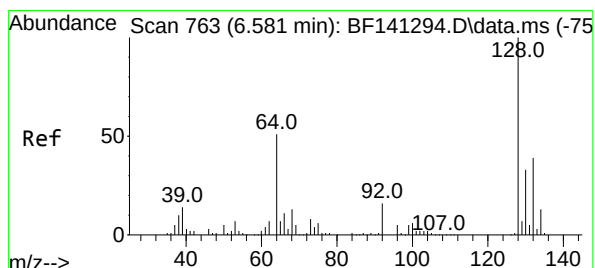
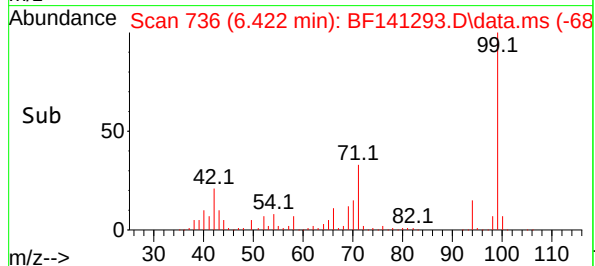
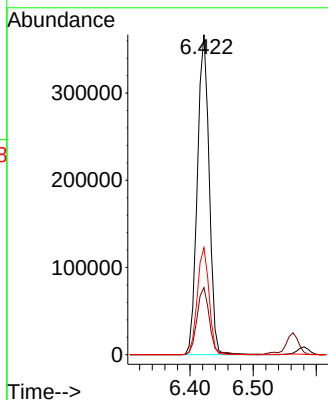
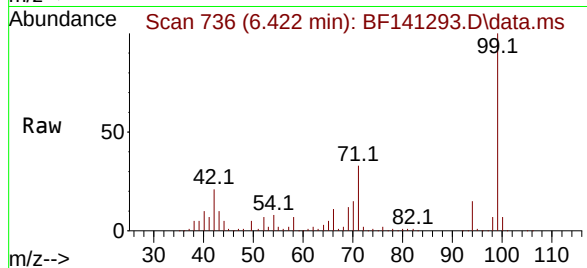
71 33.5 26.9 40.3

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#8

2-Chlorophenol

Concen: 21.418 ng

RT: 6.581 min Scan# 763

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

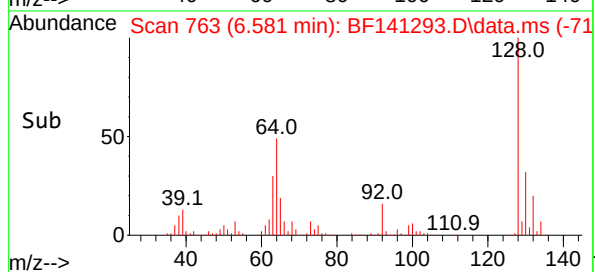
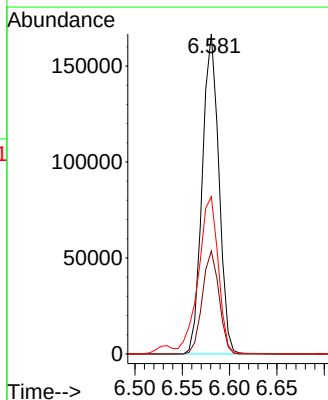
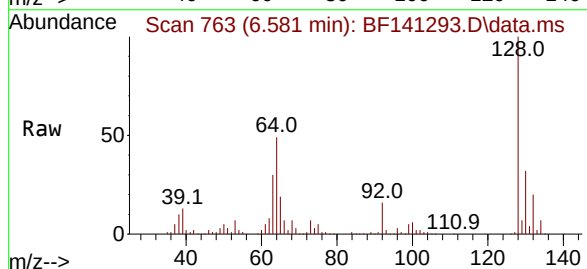
Tgt Ion:128 Resp: 203008

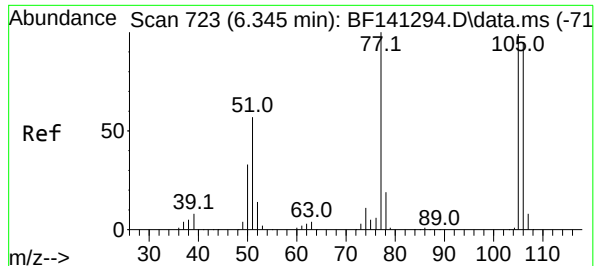
Ion Ratio Lower Upper

128 100

130 32.1 12.5 52.5

64 49.1 32.9 72.9



#9
Benzaldehyde

Concen: 23.065 ng

RT: 6.345 min Scan# 71

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion: 77 Resp: 15067

Ion Ratio Lower Upper

77 100

105 99.7 79.4 119.4

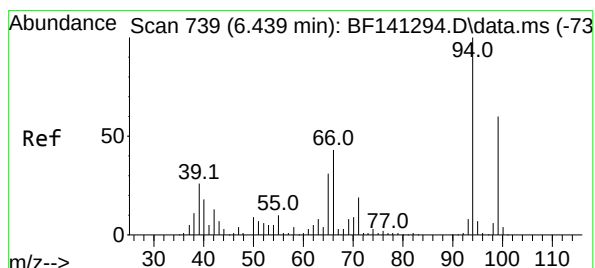
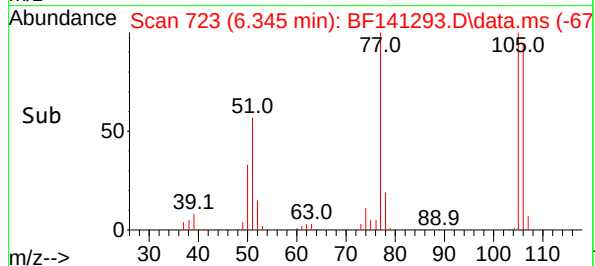
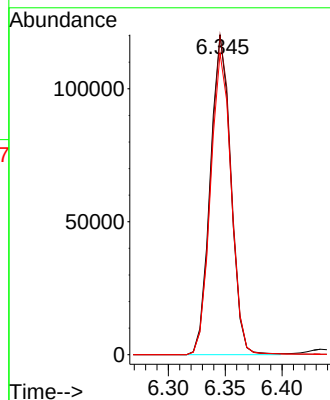
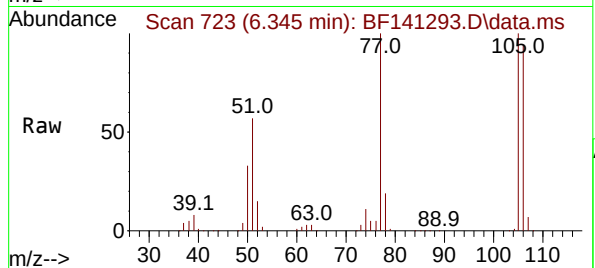
106 94.2 74.6 114.6

Manual Integrations

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#10

Phenol

Concen: 21.611 ng

RT: 6.434 min Scan# 738

Delta R.T. -0.006 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

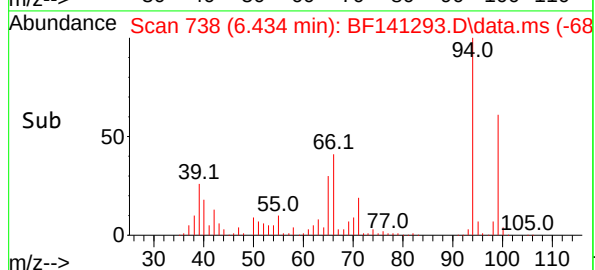
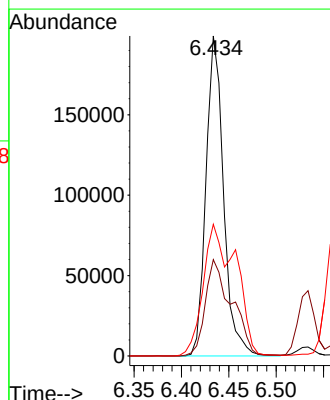
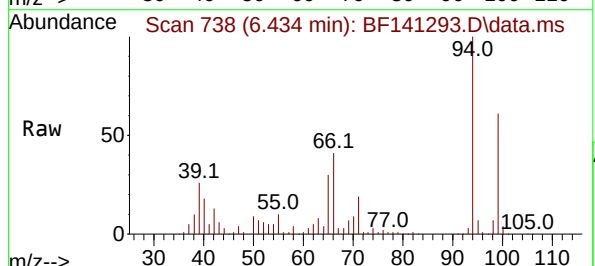
Tgt Ion: 94 Resp: 257179

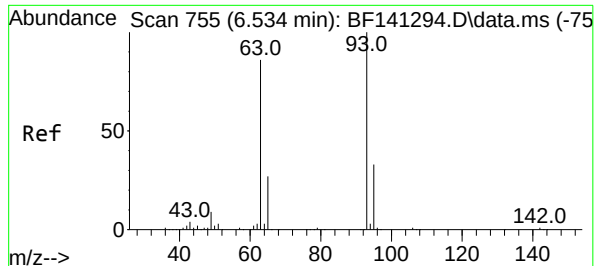
Ion Ratio Lower Upper

94 100

65 30.1 10.8 50.8

66 41.1 23.3 63.3





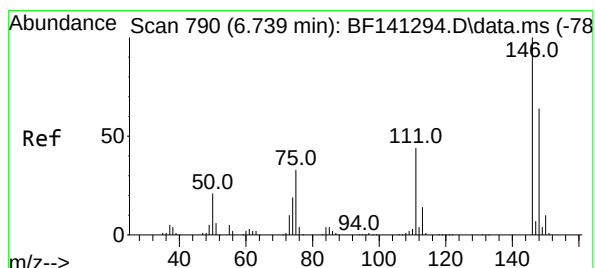
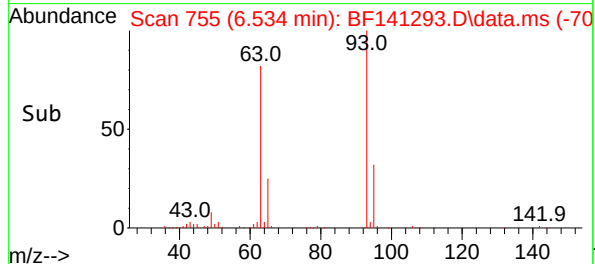
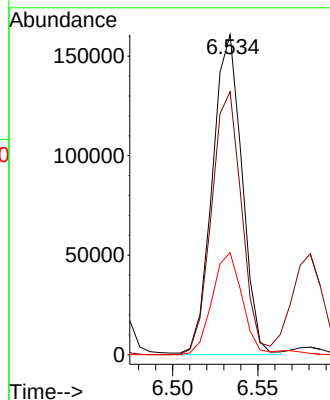
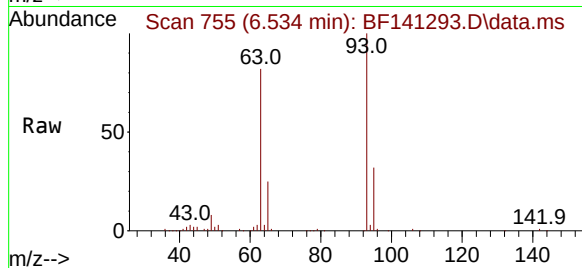
#11
bis(2-Chloroethyl)ether
Concen: 21.260 ng
RT: 6.534 min Scan# 755
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 93 Resp: 194572
Ion Ratio Lower Upper
93 100
63 82.2 65.0 105.0
95 31.9 12.4 52.4

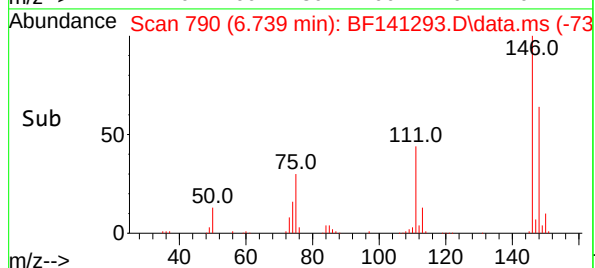
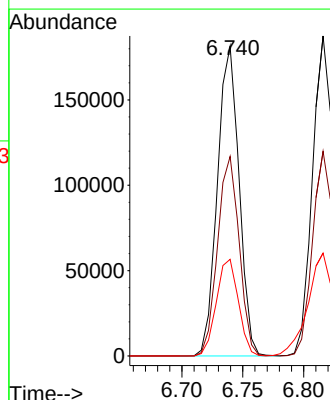
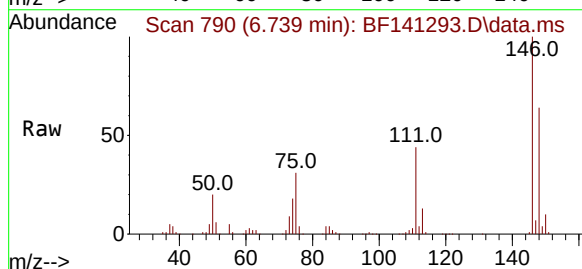
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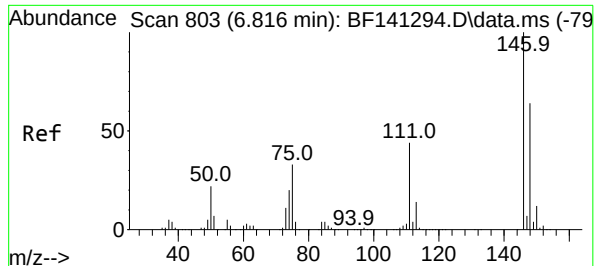
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#12
1,3-Dichlorobenzene
Concen: 21.512 ng
RT: 6.739 min Scan# 790
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:146 Resp: 224880
Ion Ratio Lower Upper
146 100
148 64.4 51.2 76.8
75 31.2 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 21.503 ng

RT: 6.816 min Scan# 803

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDIC020

Tgt Ion:146 Resp: 226370

Ion Ratio Lower Upper

146 100

148 63.9 51.2 76.8

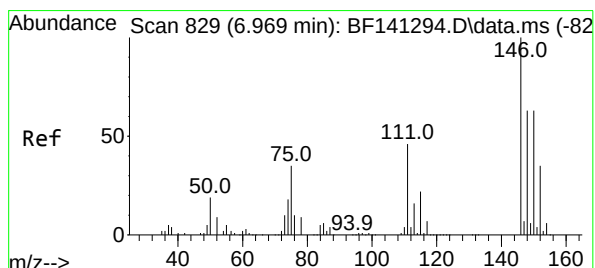
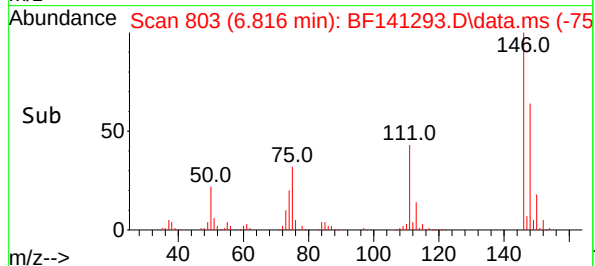
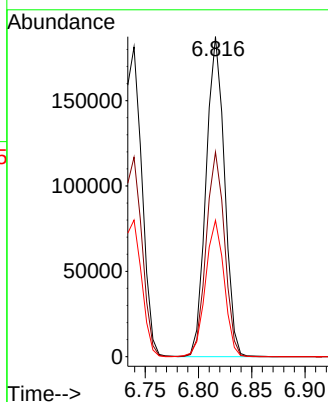
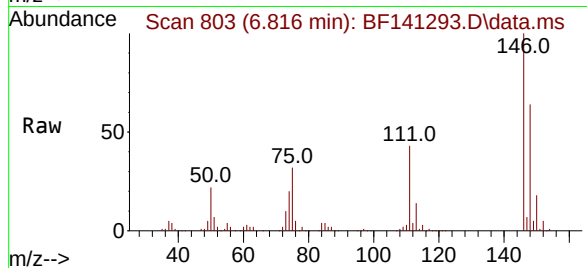
111 42.6 35.0 52.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#14

1,2-Dichlorobenzene

Concen: 21.714 ng

RT: 6.969 min Scan# 829

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

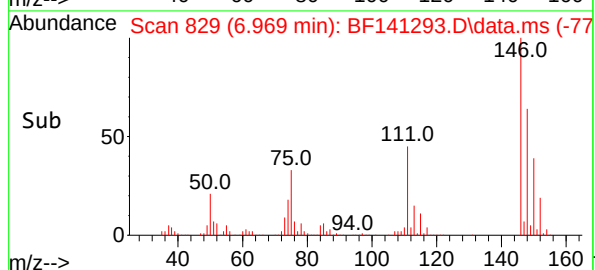
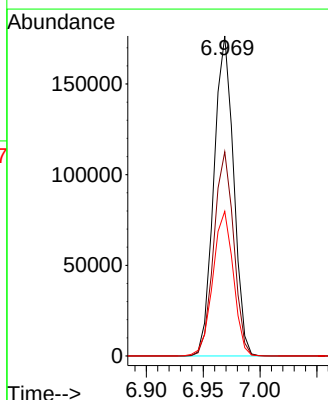
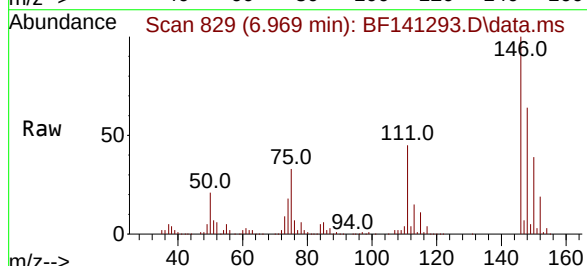
Tgt Ion:146 Resp: 213616

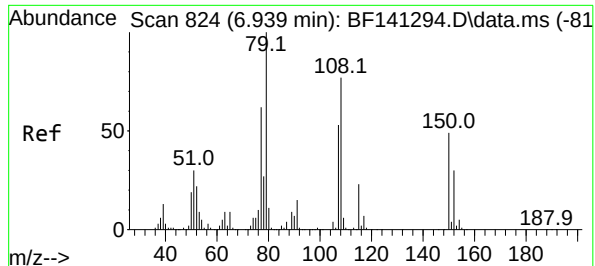
Ion Ratio Lower Upper

146 100

148 63.8 50.5 75.7

111 45.2 36.6 55.0





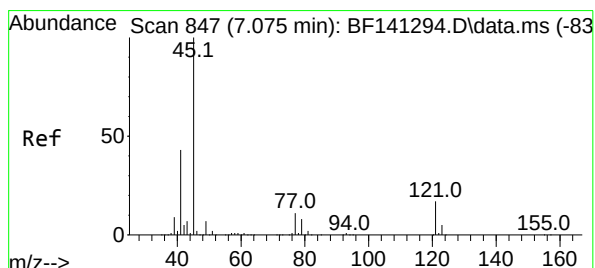
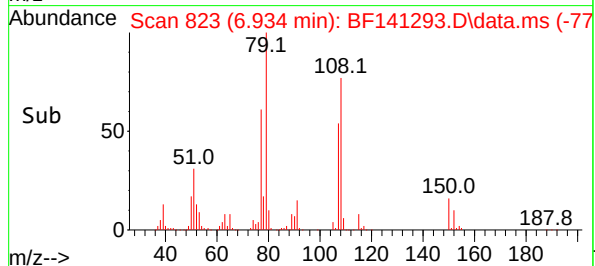
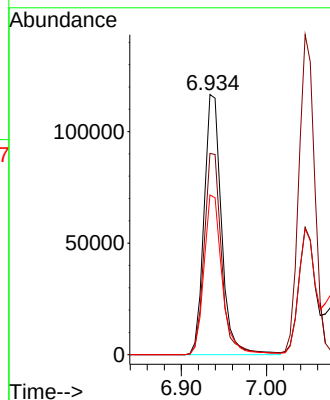
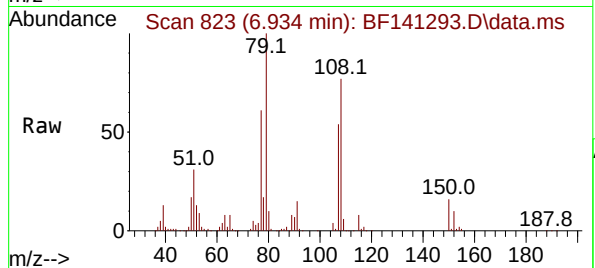
#15
Benzyl Alcohol
Concen: 21.602 ng
RT: 6.934 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Instrument :
BNA_F
ClientSampleId :
SSTDICC020

Tgt Ion: 79 Resp: 166008
Ion Ratio Lower Upper
79 100
108 77.4 61.4 92.0
77 61.4 49.9 74.9

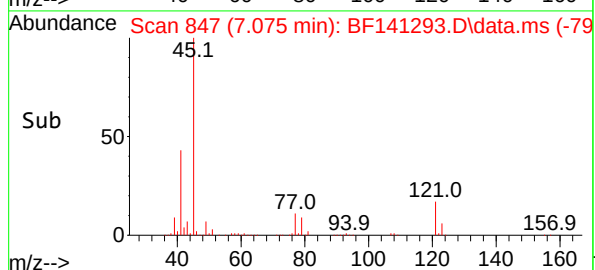
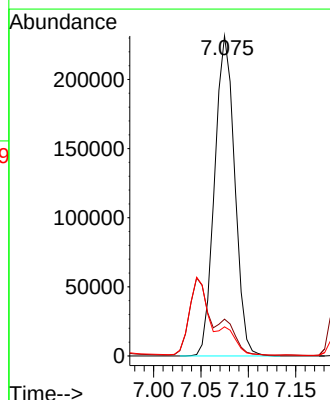
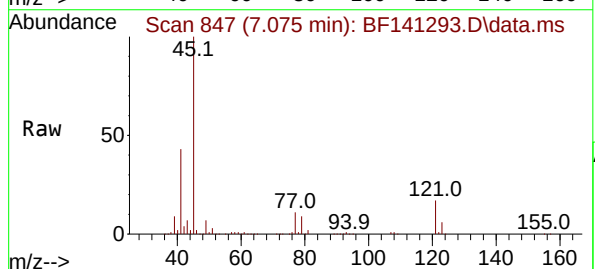
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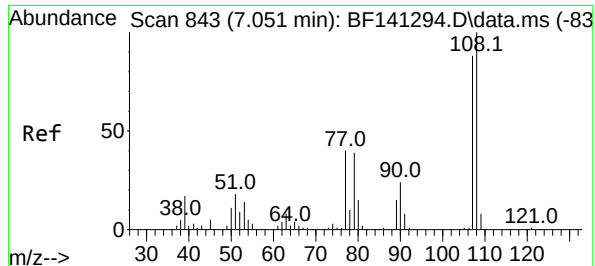
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#16
2,2'-oxybis(1-chloropropane)
Concen: 21.420 ng
RT: 7.075 min Scan# 847
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

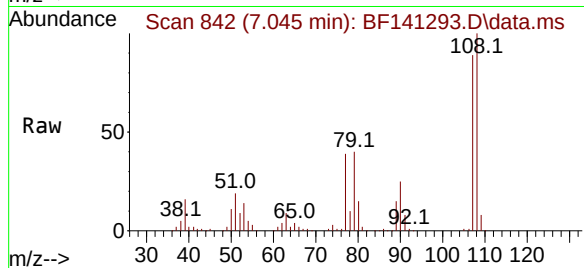
Tgt Ion: 45 Resp: 340590
Ion Ratio Lower Upper
45 100
77 11.5 0.0 31.8
79 9.1 0.0 29.1





#17
2-Methylphenol
Concen: 21.525 ng
RT: 7.045 min Scan# 842
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

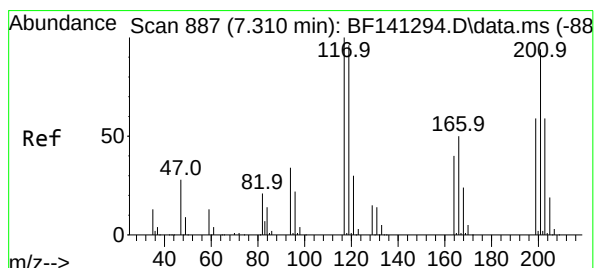
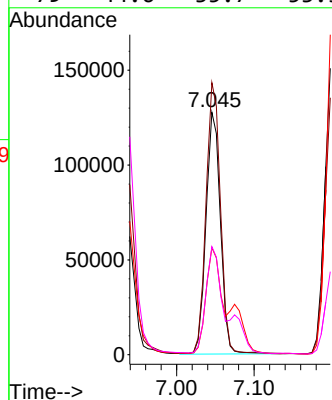
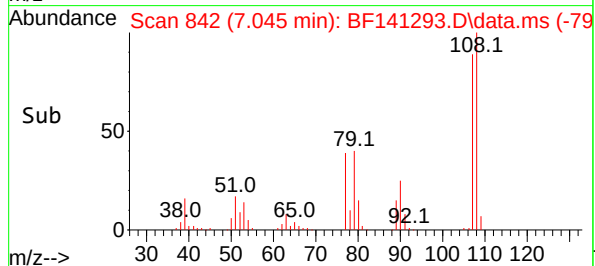
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:107 Resp: 16518
Ion Ratio Lower Upper
107 100
108 112.2 90.8 136.2
77 44.2 36.2 54.4
79 44.6 35.7 53.5

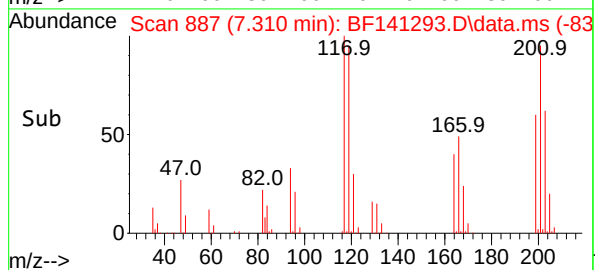
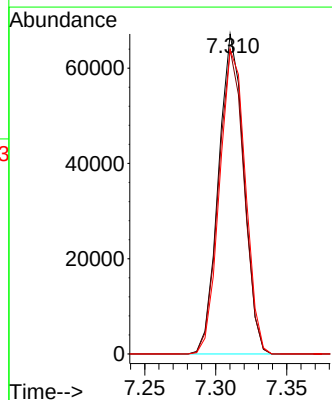
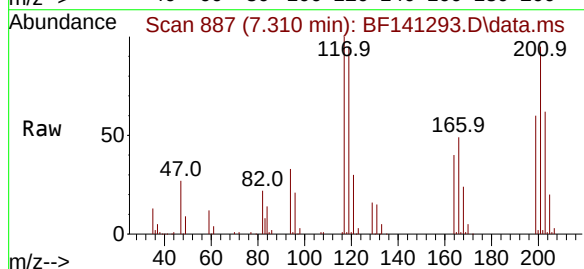
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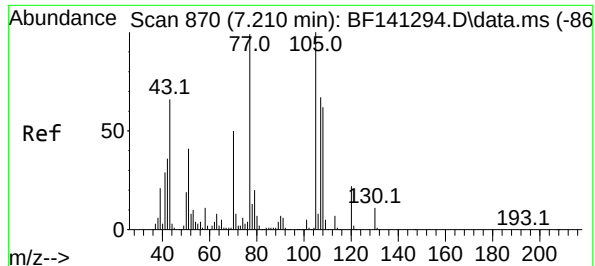
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#18
Hexachloroethane
Concen: 21.359 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:117 Resp: 83193
Ion Ratio Lower Upper
117 100
119 95.2 76.6 114.8
201 95.1 74.8 112.2





#19

n-Nitroso-di-n-propylamine

Concen: 21.058 ng

RT: 7.204 min Scan# 8

Delta R.T. -0.006 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion: 70 Resp: 140874

Ion Ratio Lower Upper

70 100

42 69.9 56.8 85.2

101 10.1 7.7 11.5

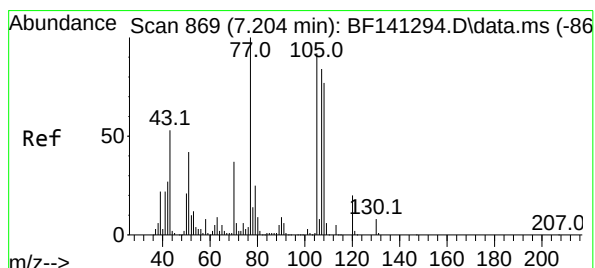
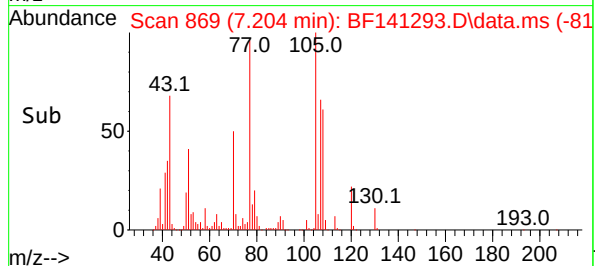
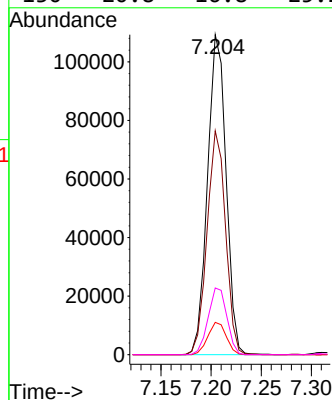
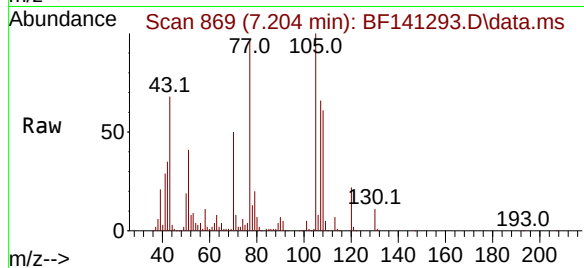
130 20.8 16.8 25.2

Manual Integrations

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#20

3+4-Methylphenols

Concen: 21.734 ng

RT: 7.198 min Scan# 868

Delta R.T. -0.006 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Tgt Ion:107 Resp: 205070

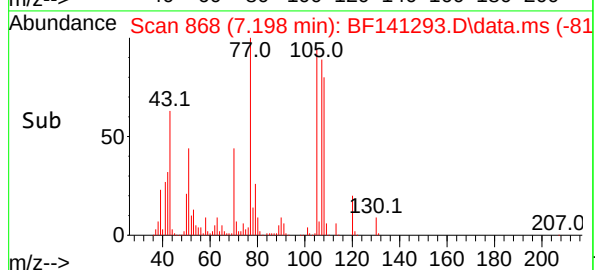
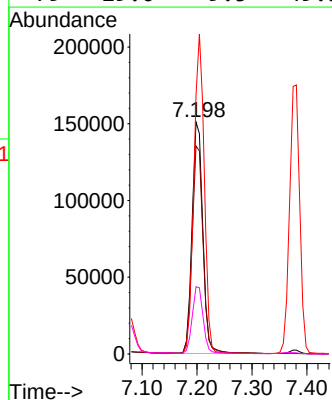
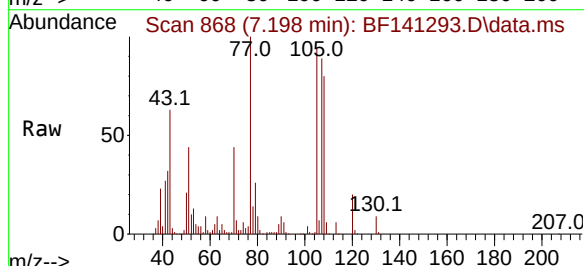
Ion Ratio Lower Upper

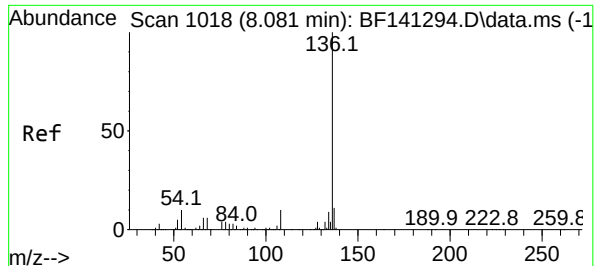
107 100

108 89.7 70.9 110.9

77 111.7 98.5 138.5

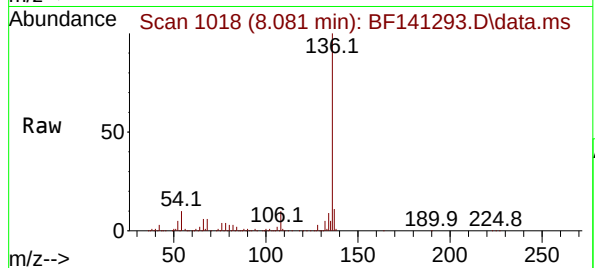
79 29.0 9.5 49.5





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1018
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

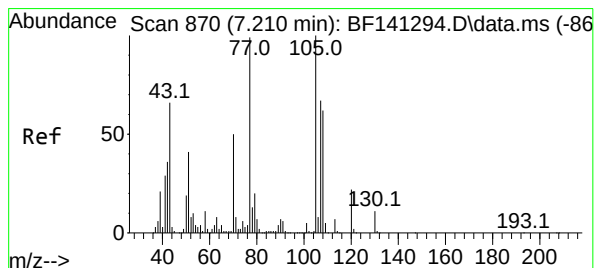
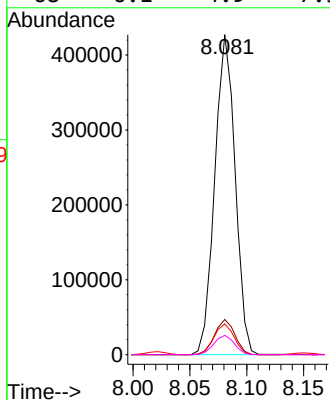
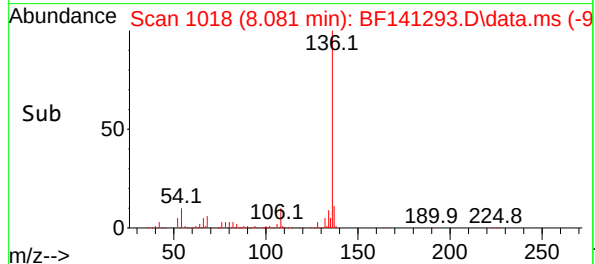
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:136 Resp: 532862
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 9.6 7.8 11.8
68 6.1 4.9 7.3

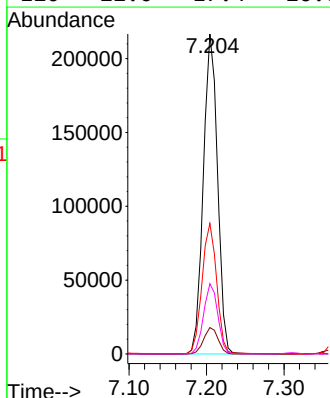
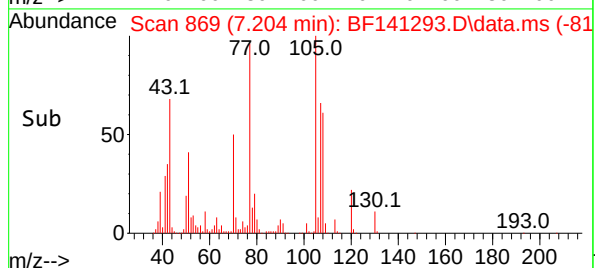
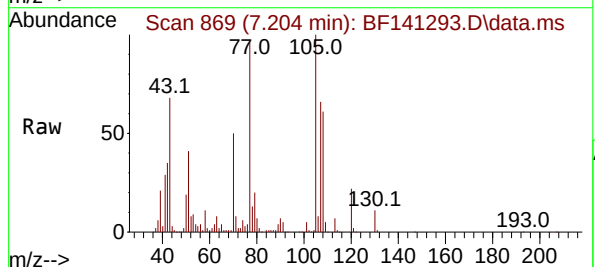
Manual Integrations
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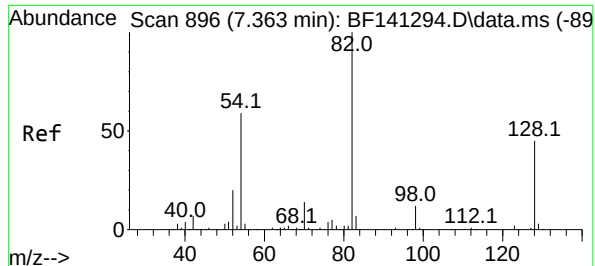
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#22
Acetophenone
Concen: 21.825 ng
RT: 7.204 min Scan# 869
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:105 Resp: 275680
Ion Ratio Lower Upper
105 100
71 8.2 6.8 10.2
51 40.8 32.6 49.0
120 22.0 17.4 26.0





#23

Nitrobenzene-d5

Concen: 42.912 ng

RT: 7.357 min Scan# 895

Delta R.T. -0.006 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion: 82 Resp: 432160

Ion Ratio Lower Upper

82 100

128 44.2 35.7 53.5

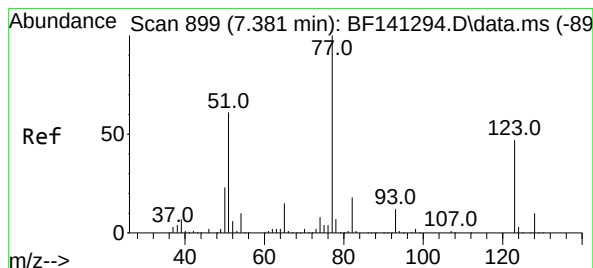
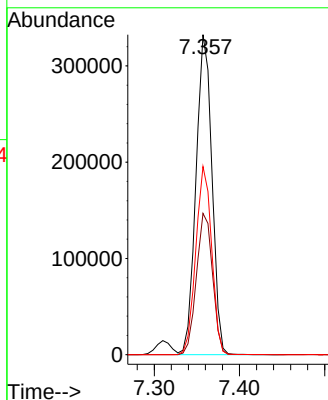
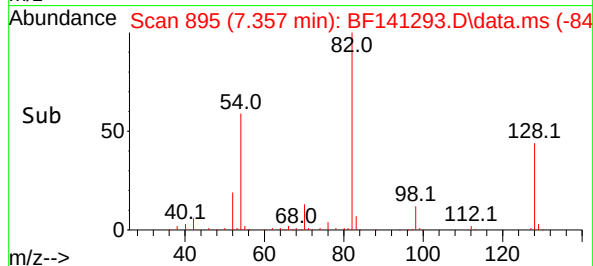
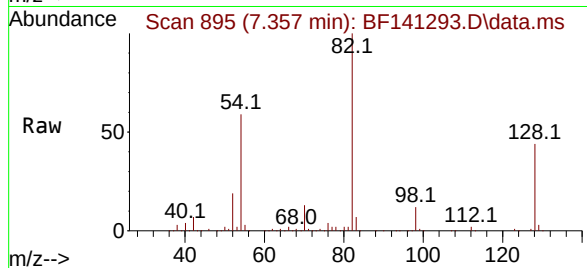
54 58.8 47.1 70.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#24

Nitrobenzene

Concen: 21.451 ng

RT: 7.381 min Scan# 899

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

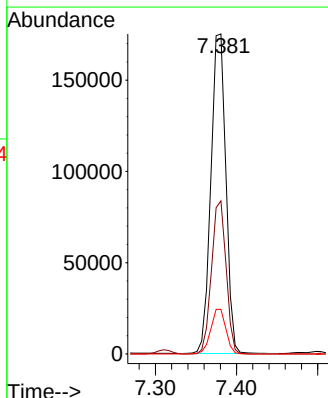
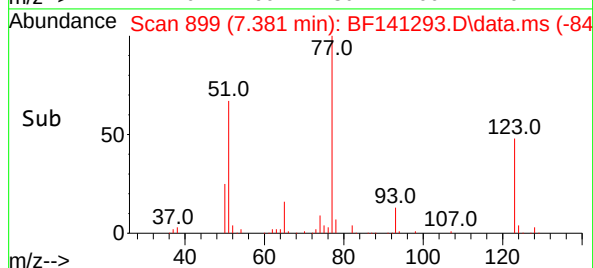
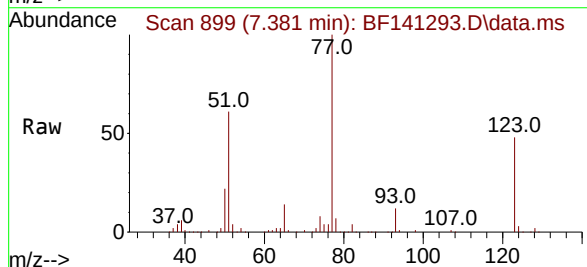
Tgt Ion: 77 Resp: 224061

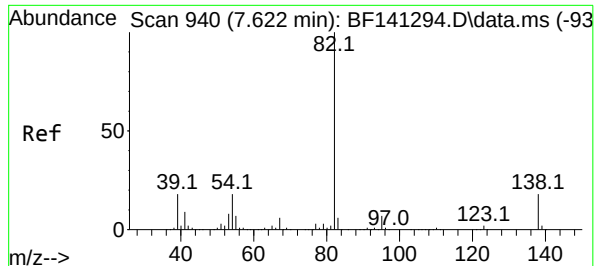
Ion Ratio Lower Upper

77 100

123 47.8 37.3 55.9

65 13.9 11.8 17.6





#25

Isophorone

Concen: 21.259 ng

RT: 7.616 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

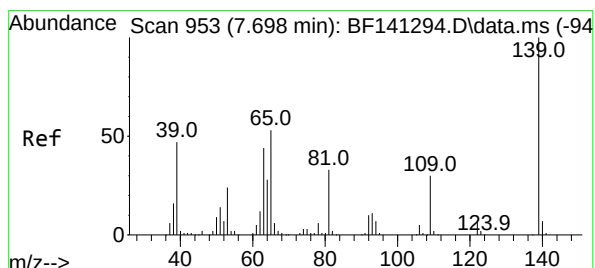
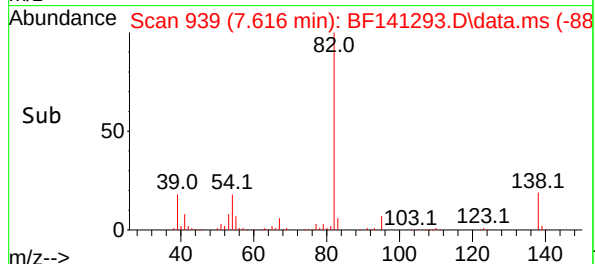
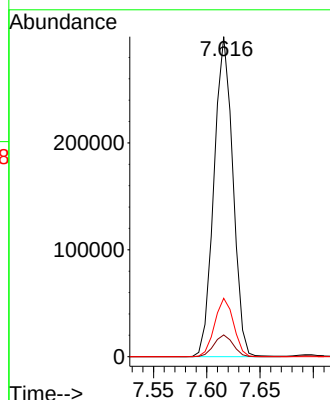
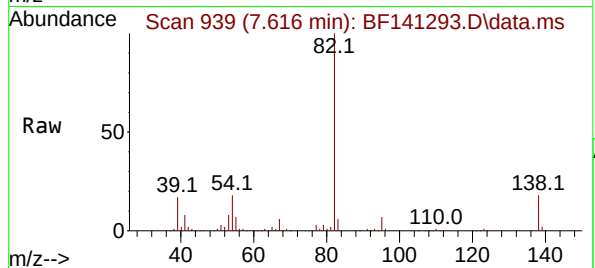
ClientSampleId :

SSTDICC020

Tgt Ion: 82 Resp: 369998
Ion Ratio Lower Upper
82 100
95 6.8 5.8 8.6
138 18.2 14.7 22.1

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Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#26

2-Nitrophenol

Concen: 21.725 ng

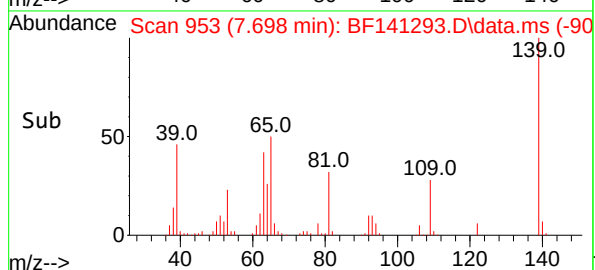
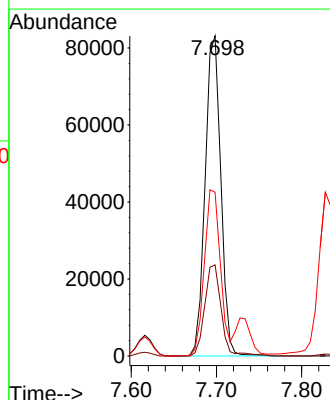
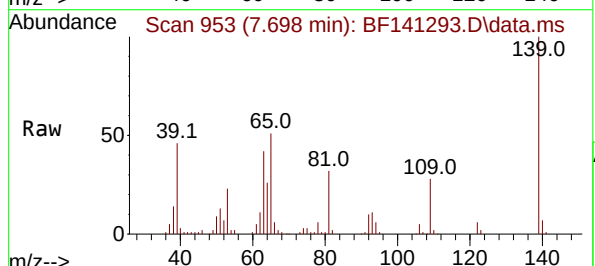
RT: 7.698 min Scan# 953

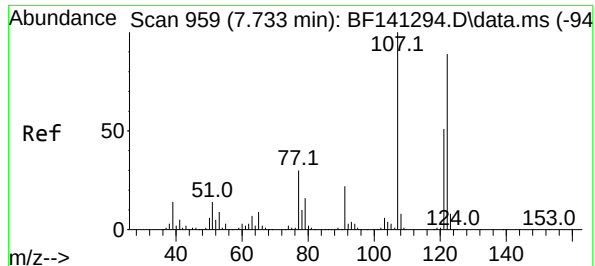
Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Tgt Ion:139 Resp: 106287
Ion Ratio Lower Upper
139 100
109 28.5 23.8 35.6
65 51.2 42.2 63.4





#27

2,4-Dimethylphenol

Concen: 21.233 ng m

RT: 7.734 min Scan# 91

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

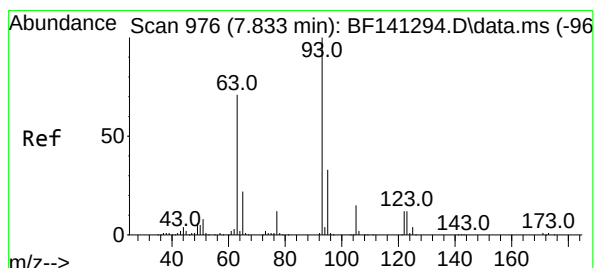
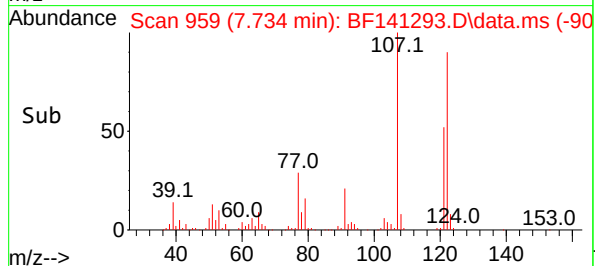
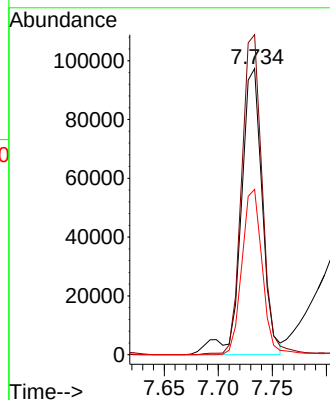
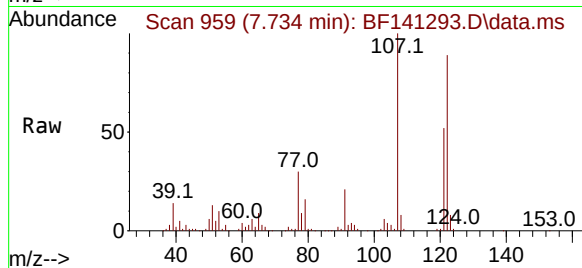
SSTDICC020

Tgt Ion:122 Resp: 132748

Ion	Ratio	Lower	Upper
122	100		
107	111.9	89.9	134.9
121	57.8	46.1	69.1

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#28

bis(2-Chloroethoxy)methane

Concen: 21.403 ng

RT: 7.828 min Scan# 975

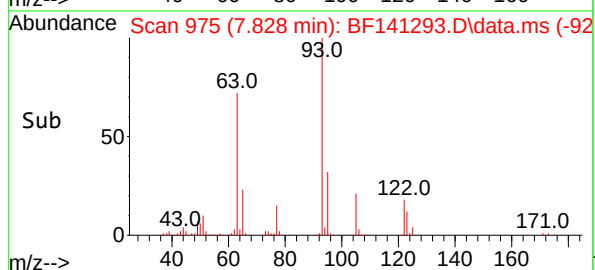
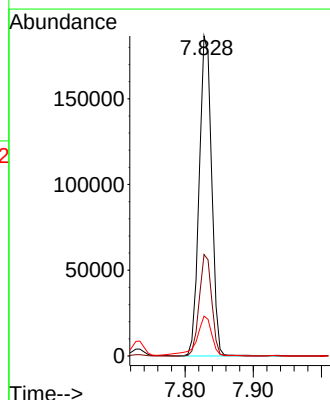
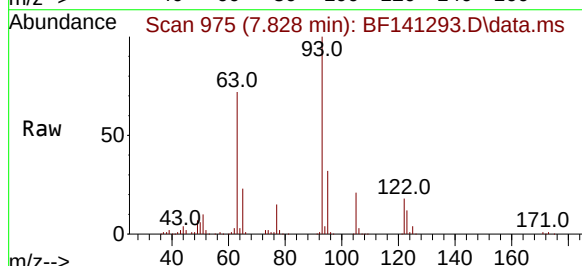
Delta R.T. -0.006 min

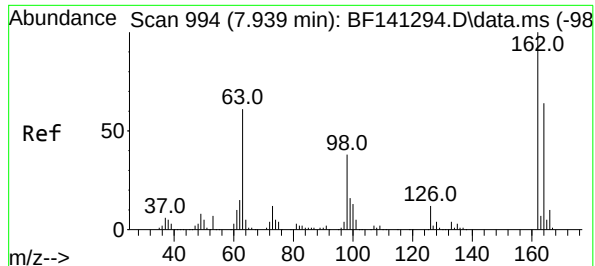
Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Tgt Ion: 93 Resp: 237369

Ion	Ratio	Lower	Upper
93	100		
95	31.7	26.2	39.2
123	12.5	10.2	15.4





#29

2,4-Dichlorophenol

Concen: 21.750 ng

RT: 7.934 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDIC020

Tgt Ion:162 Resp: 16615

Ion Ratio Lower Upper

162 100

164 64.4 44.2 84.2

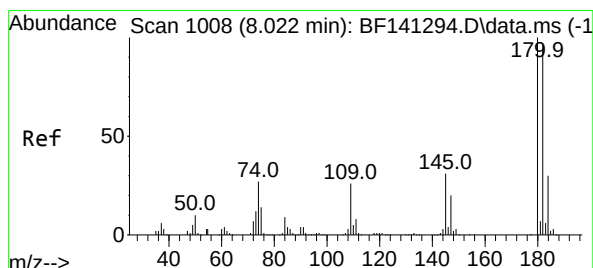
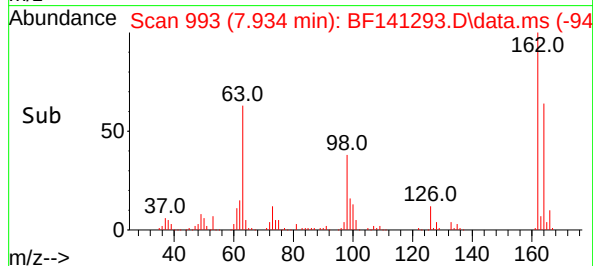
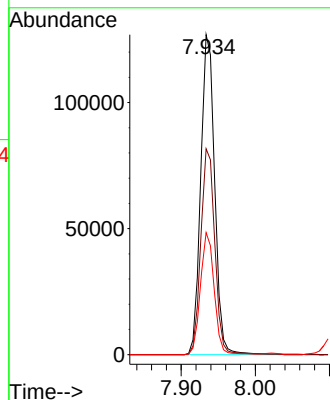
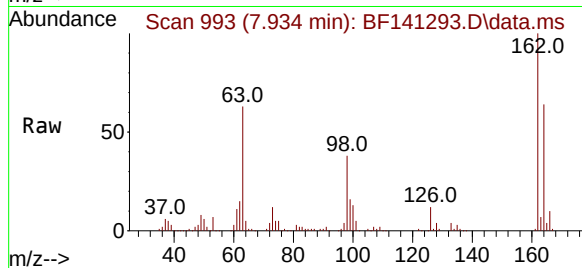
98 38.1 18.2 58.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#30

1,2,4-Trichlorobenzene

Concen: 21.511 ng

RT: 8.022 min Scan# 1008

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

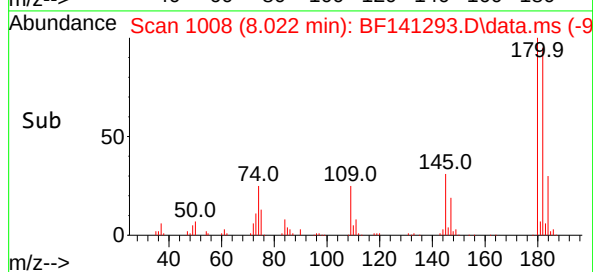
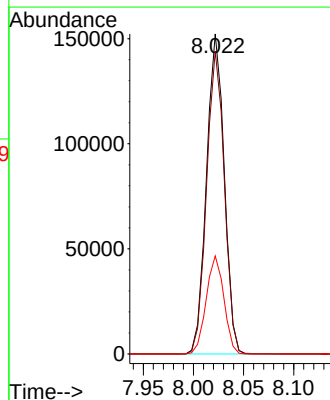
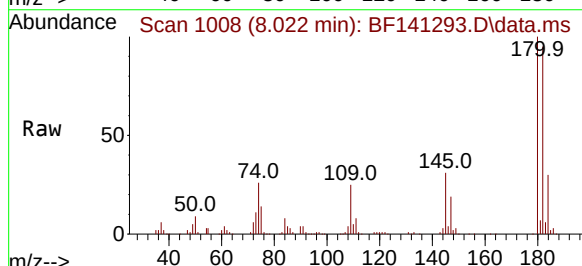
Tgt Ion:180 Resp: 188468

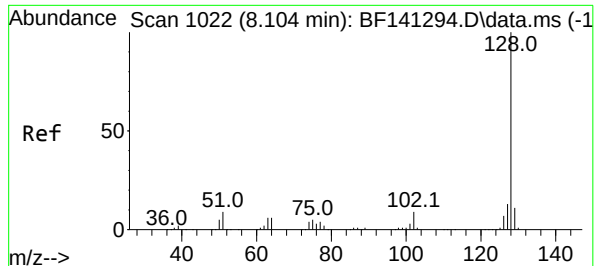
Ion Ratio Lower Upper

180 100

182 94.7 76.4 114.6

145 30.6 24.9 37.3





#31

Naphthalene

Concen: 21.681 ng

RT: 8.104 min Scan# 1022

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

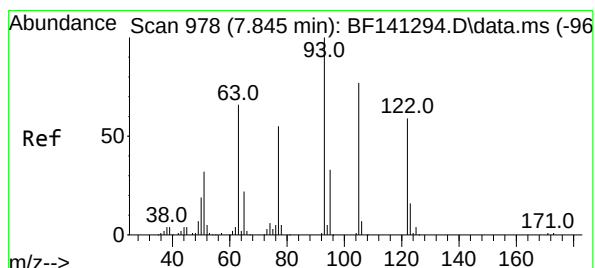
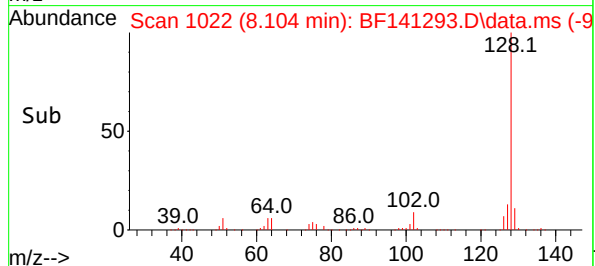
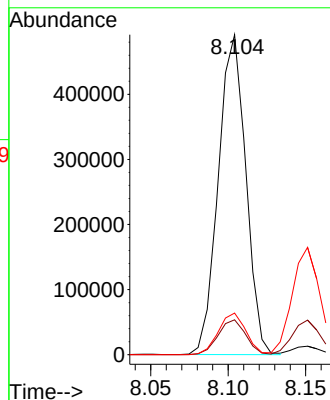
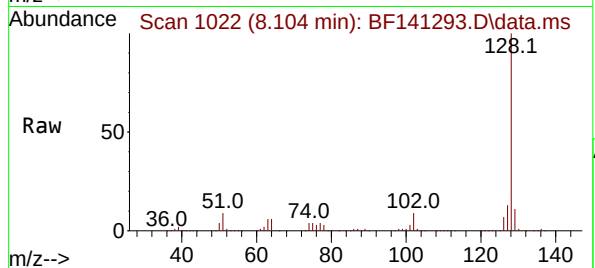
SSTDICC020

Tgt Ion:128 Resp: 60762

Ion	Ratio	Lower	Upper
128	100		
129	10.9	8.9	13.3
127	13.0	10.6	15.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#32

Benzoic acid

Concen: 22.321 ng

RT: 7.816 min Scan# 973

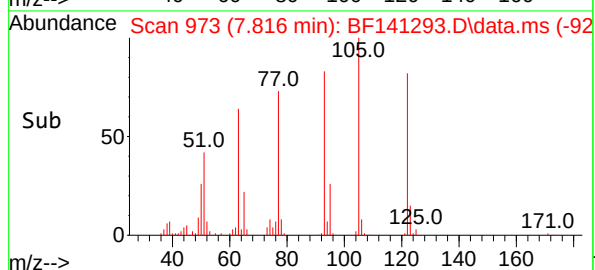
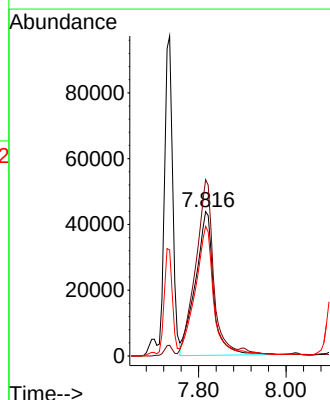
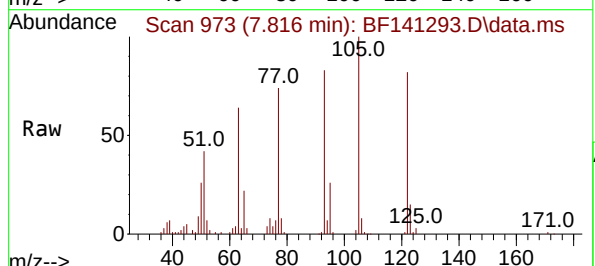
Delta R.T. -0.029 min

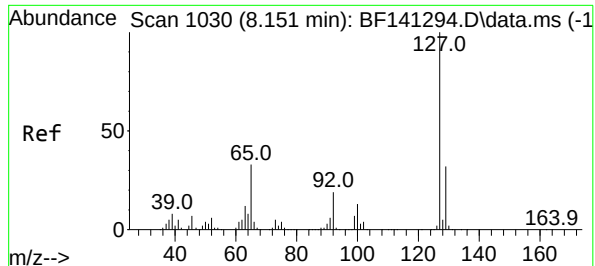
Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Tgt Ion:122 Resp: 126734

Ion	Ratio	Lower	Upper
122	100		
105	122.2	103.4	143.4
77	89.9	70.9	110.9





#33

4-Chloroaniline

Concen: 22.151 ng

RT: 8.151 min Scan# 1030

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:127 Resp: 20853

Ion Ratio Lower Upper

127 100

129 32.2 25.7 38.5

65 31.6 26.4 39.6

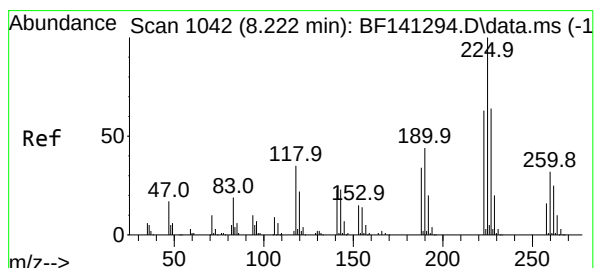
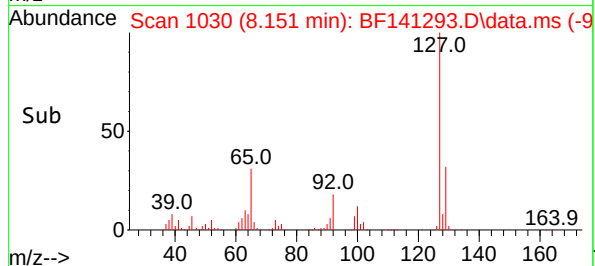
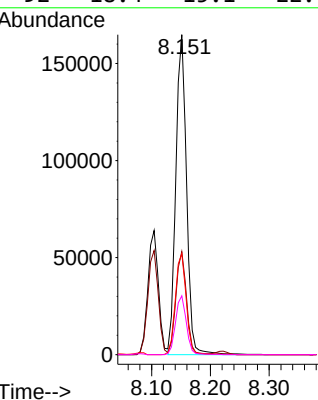
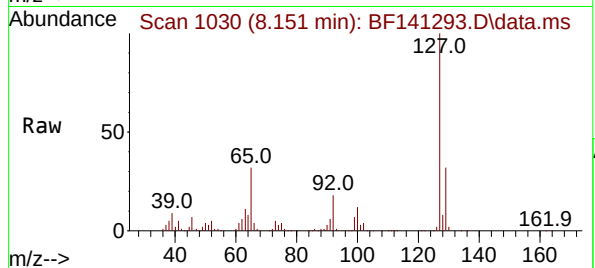
92 18.4 15.1 22.7

Manual Integrations

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#34

Hexachlorobutadiene

Concen: 21.699 ng

RT: 8.222 min Scan# 1042

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

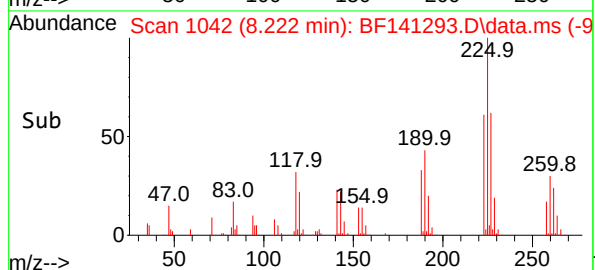
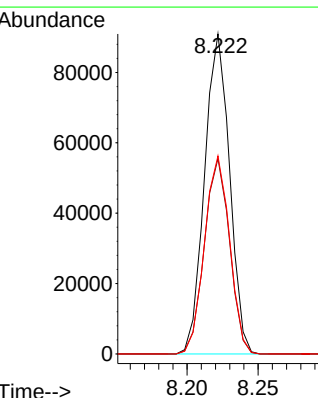
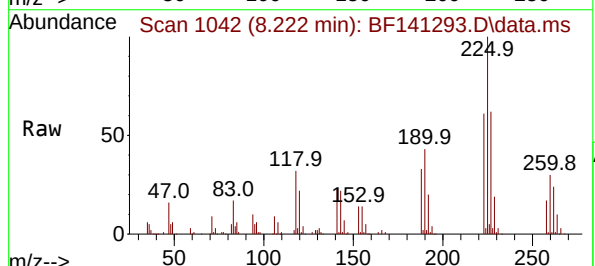
Tgt Ion:225 Resp: 111274

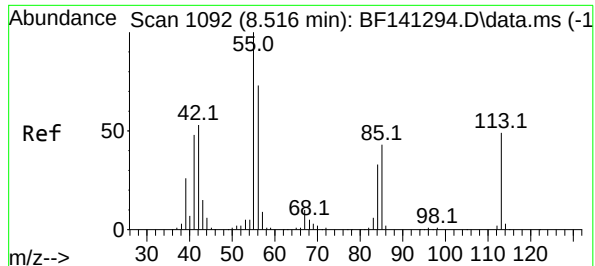
Ion Ratio Lower Upper

225 100

223 61.0 50.4 75.6

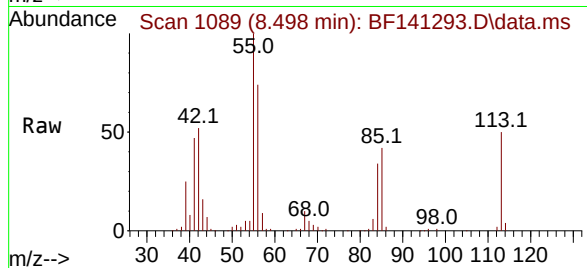
227 61.9 51.3 76.9





#35
Caprolactam
Concen: 21.968 ng
RT: 8.498 min Scan# 1089
Delta R.T. -0.018 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

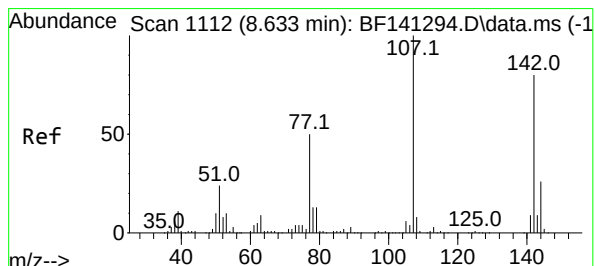
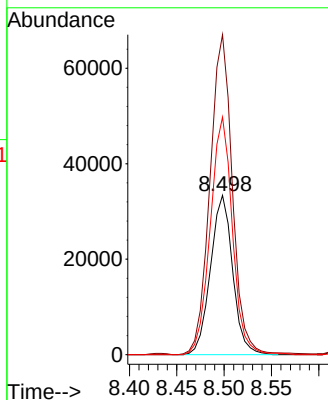
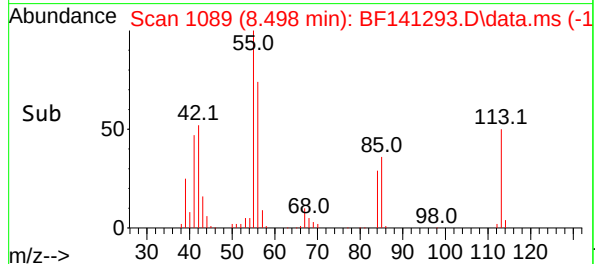
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:113 Resp: 54280
Ion Ratio Lower Upper
113 100
55 200.9 182.9 222.9
56 149.2 127.9 167.9

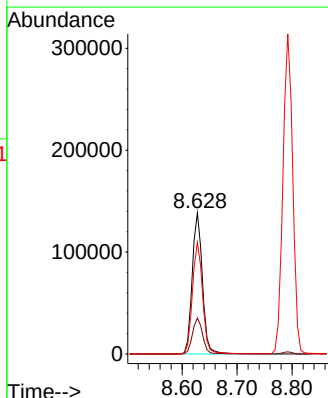
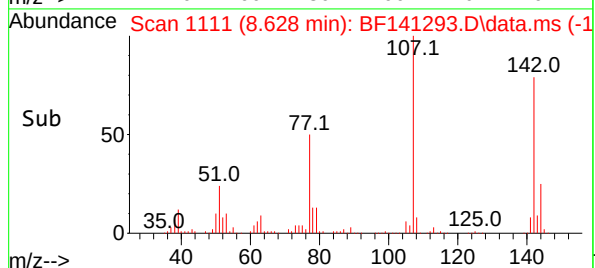
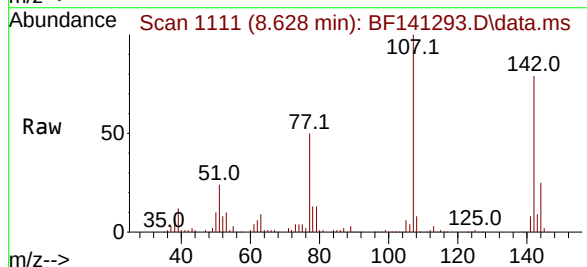
Manual Integrations
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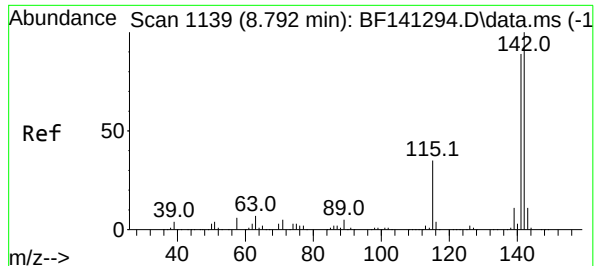
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#36
4-Chloro-3-methylphenol
Concen: 21.708 ng
RT: 8.628 min Scan# 1111
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:107 Resp: 177981
Ion Ratio Lower Upper
107 100
144 25.5 20.7 31.1
142 79.0 63.8 95.8





#37

2-Methylnaphthalene

Concen: 21.630 ng

RT: 8.792 min Scan# 1139

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:142 Resp: 38603

Ion Ratio Lower Upper

142 100

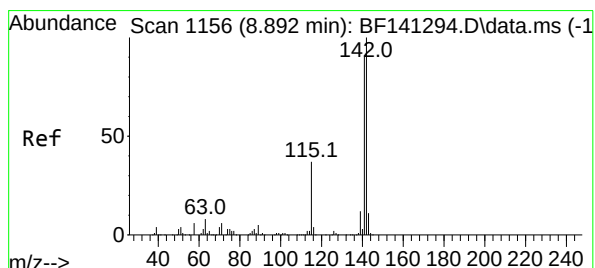
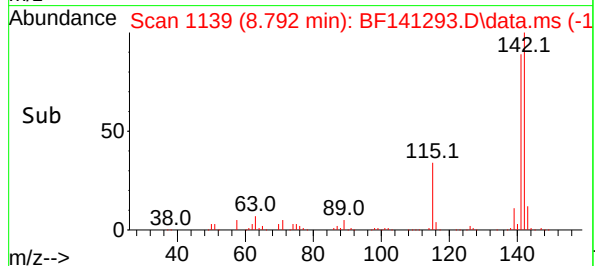
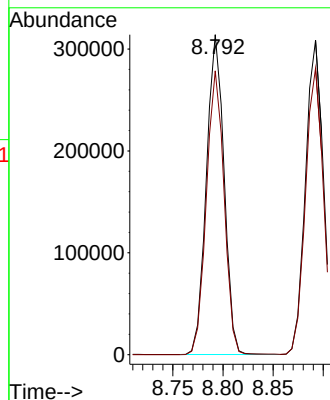
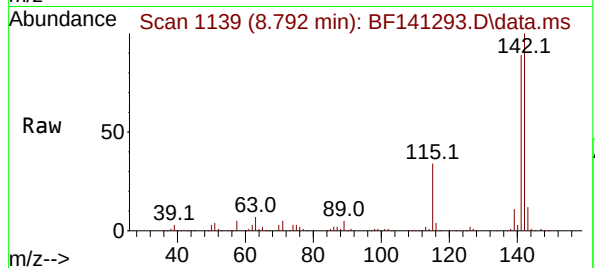
141 88.7 71.3 106.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#38

1-Methylnaphthalene

Concen: 21.671 ng

RT: 8.892 min Scan# 1156

Delta R.T. 0.000 min

Lab File: BF141293.D

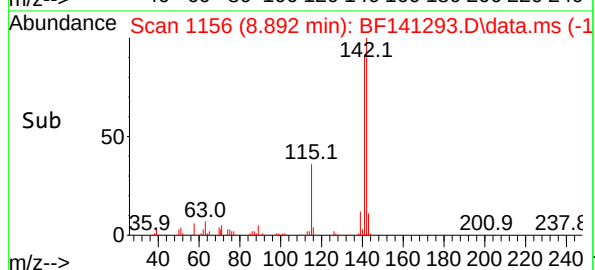
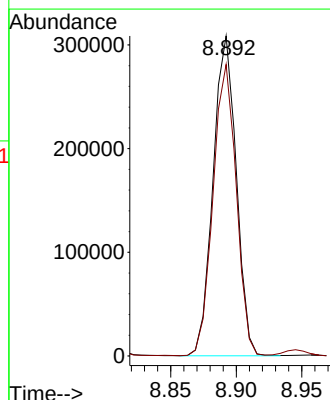
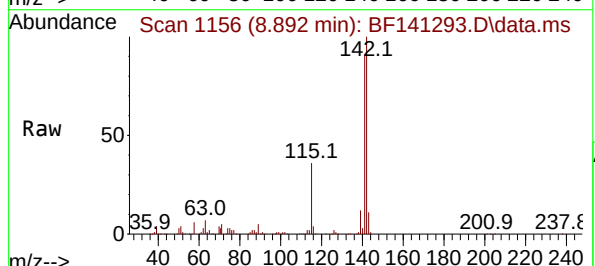
Acq: 29 Jan 2025 15:17

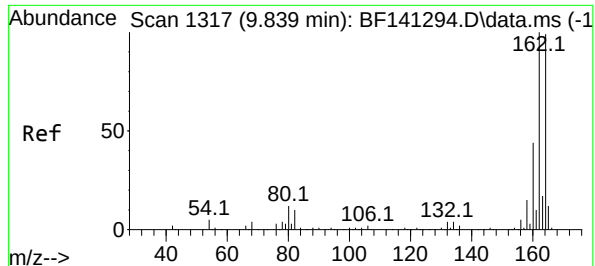
Tgt Ion:142 Resp: 378878

Ion Ratio Lower Upper

142 100

141 91.1 73.2 109.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.839 min Scan# 1167

Delta R.T. 0.000 min

Lab File: BF141293.D

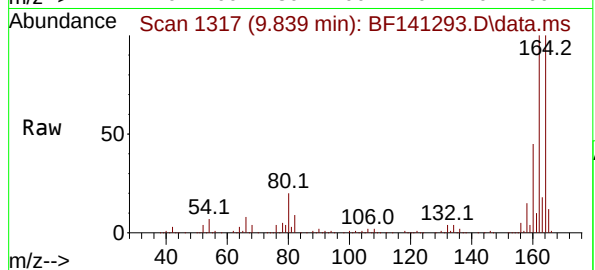
Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020



Tgt Ion:164 Resp: 293084

Ion Ratio Lower Upper

164 100

162 99.8 80.6 121.0

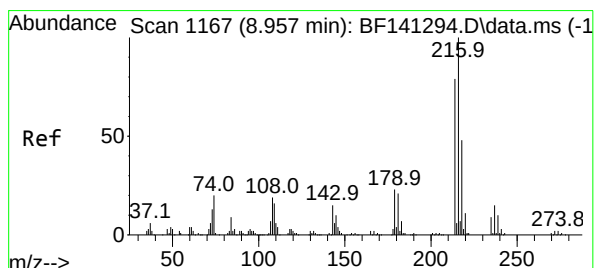
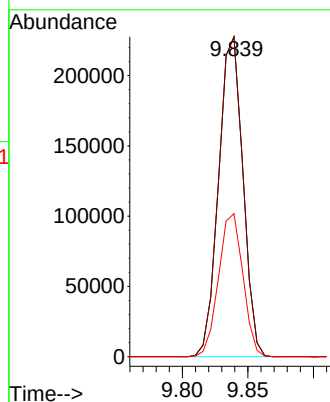
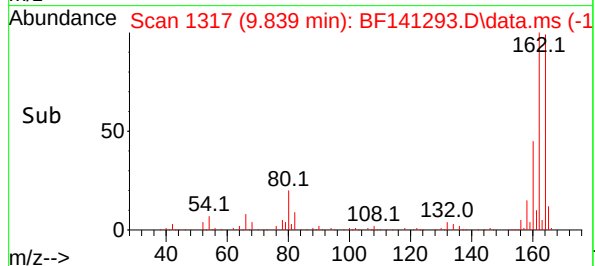
160 44.7 35.8 53.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#40

1,2,4,5-Tetrachlorobenzene

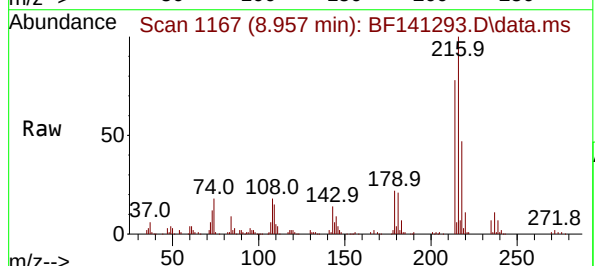
Concen: 21.209 ng

RT: 8.957 min Scan# 1167

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17



Tgt Ion:216 Resp: 176736

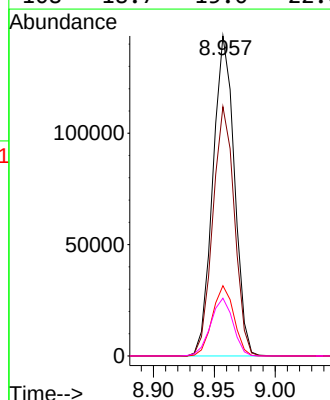
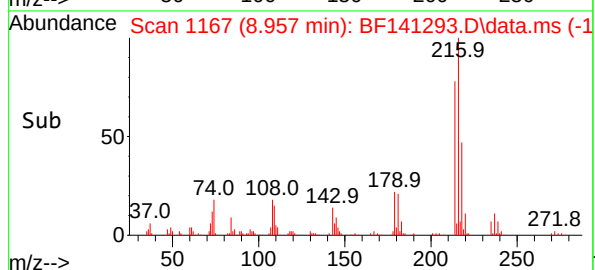
Ion Ratio Lower Upper

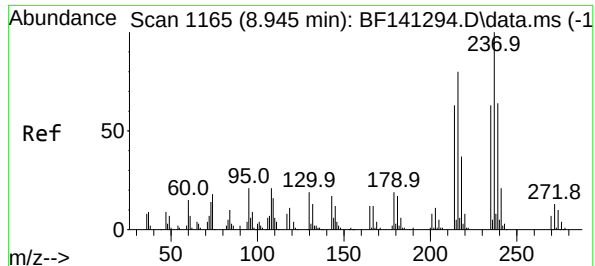
216 100

214 77.9 63.2 94.8

179 21.9 17.8 26.8

108 18.7 15.0 22.6





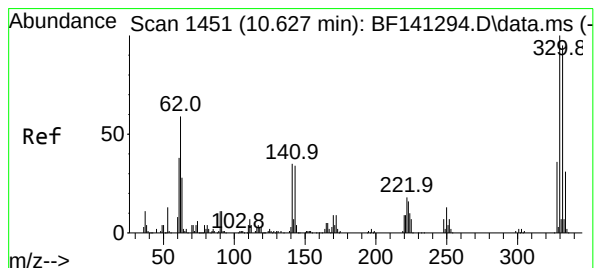
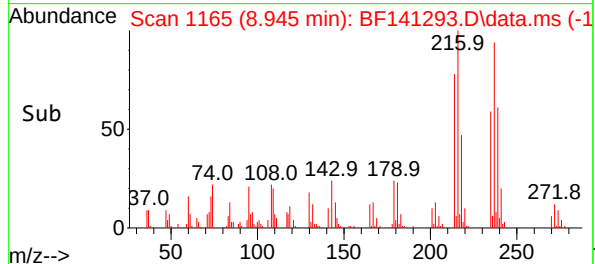
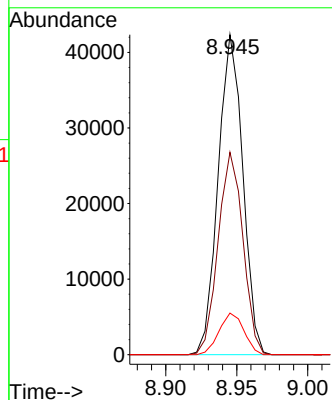
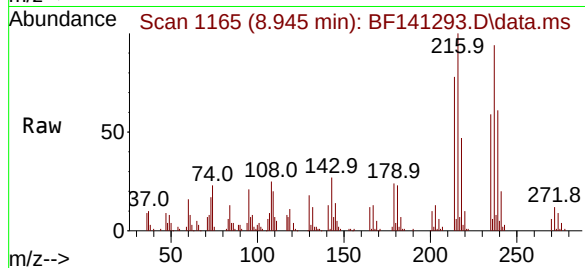
#41
Hexachlorocyclopentadiene
Concen: 20.438 ng
RT: 8.945 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Instrument :
BNA_F
Client Sample Id :
SSTDICC020

Tgt Ion: 237 Resp: 5111
Ion Ratio Lower Upper
237 100
235 63.3 42.9 82.9
272 13.0 0.0 32.8

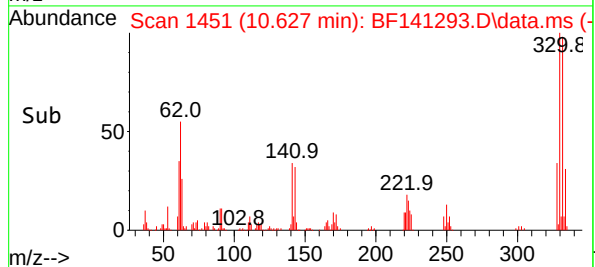
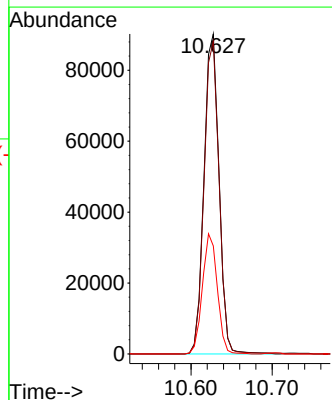
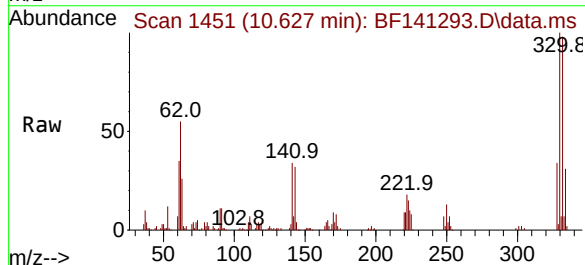
Manual Integrations
APPROVED

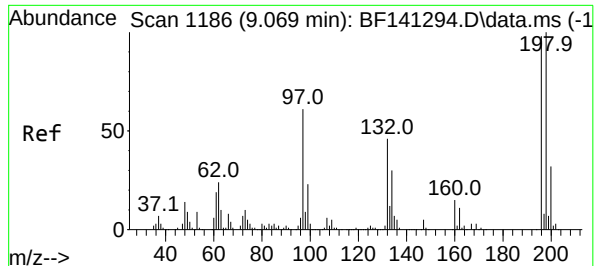
Reviewed By : Yogesh Patel 01/30/2025
Supervised By : mohammad ahmed 02/04/2025



#42
2,4,6-Tribromophenol
Concen: 43.498 ng
RT: 10.627 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion: 330 Resp: 116167
Ion Ratio Lower Upper
330 100
332 97.4 76.1 114.1
141 37.2 28.8 43.2





#43

2,4,6-Trichlorophenol

Concen: 21.029 ng

RT: 9.069 min Scan# 1186

Delta R.T. 0.000 min

Lab File: BF141293.D

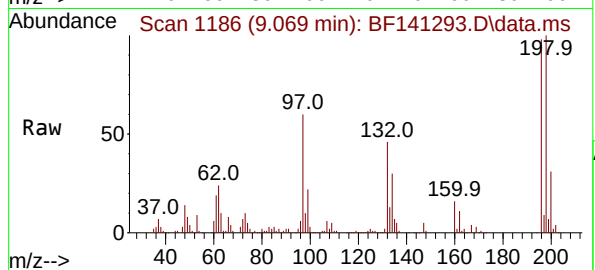
Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020



Tgt Ion:196 Resp: 114390

Ion Ratio Lower Upper

196 100

198 102.3 81.8 122.6

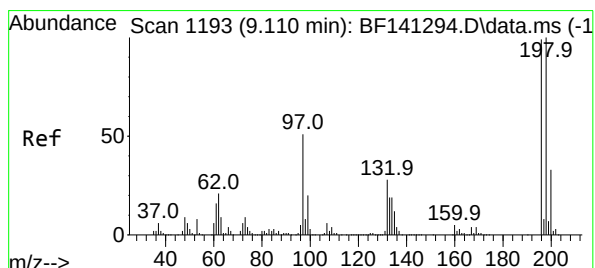
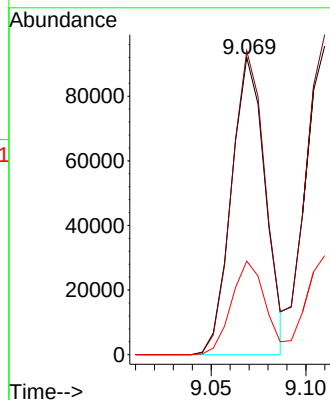
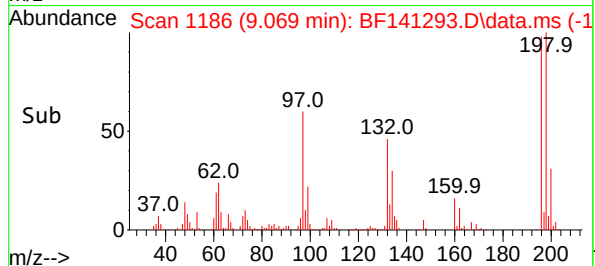
200 31.5 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#44

2,4,5-Trichlorophenol

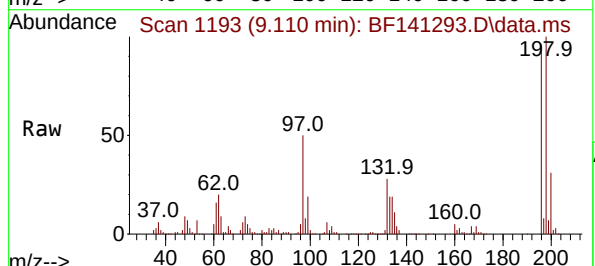
Concen: 21.245 ng

RT: 9.110 min Scan# 1193

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17



Tgt Ion:196 Resp: 125725

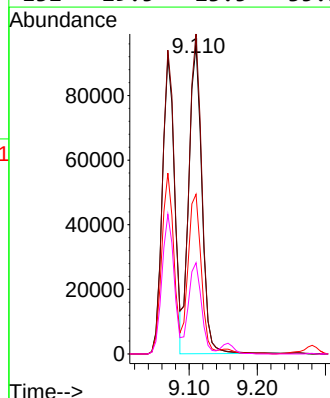
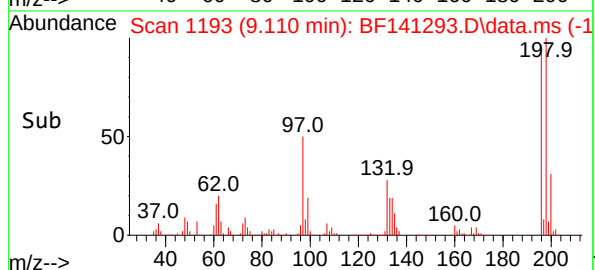
Ion Ratio Lower Upper

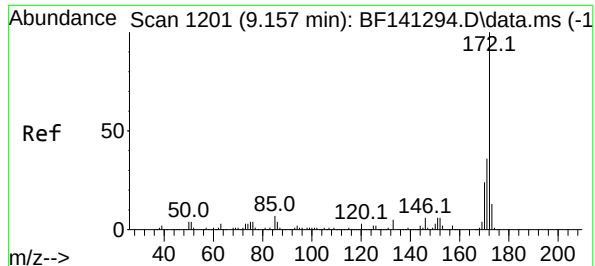
196 100

198 103.7 80.5 120.7

97 51.8 42.8 64.2

132 29.5 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 43.127 ng

RT: 9.157 min Scan# 1201

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:172 Resp: 81937

Ion Ratio Lower Upper

172 100

171 35.1 28.8 43.2

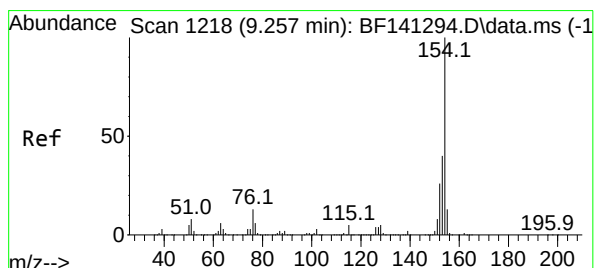
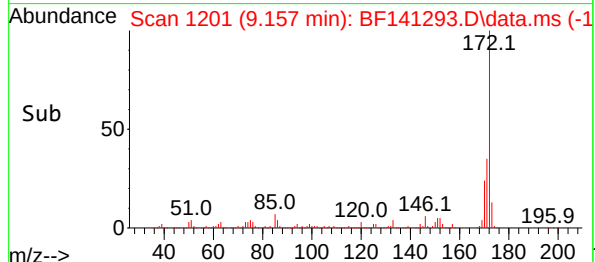
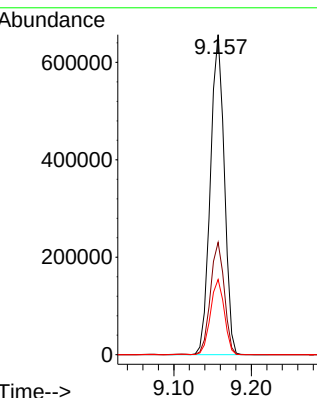
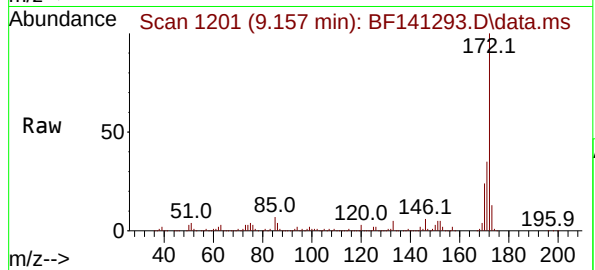
170 23.5 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#46

1,1'-Biphenyl

Concen: 21.145 ng

RT: 9.257 min Scan# 1218

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

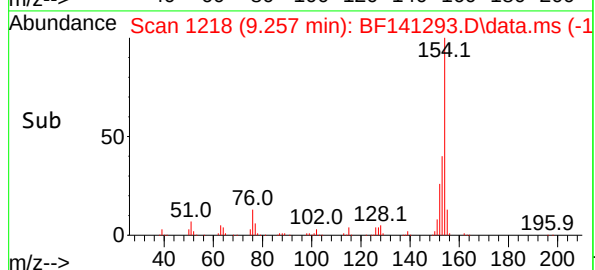
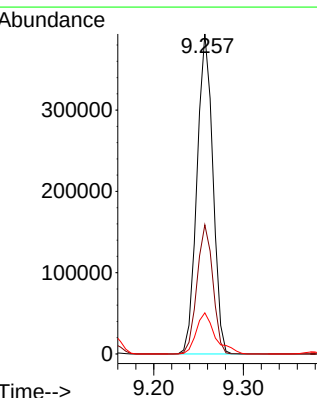
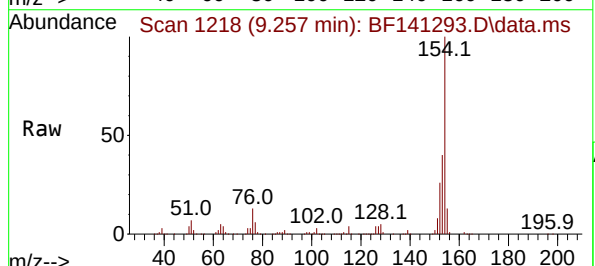
Tgt Ion:154 Resp: 483479

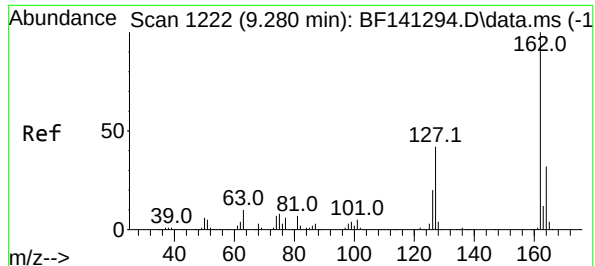
Ion Ratio Lower Upper

154 100

153 40.4 20.0 60.0

76 12.8 0.0 32.8





#47

2-Chloronaphthalene

Concen: 21.282 ng

RT: 9.281 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF141293.D

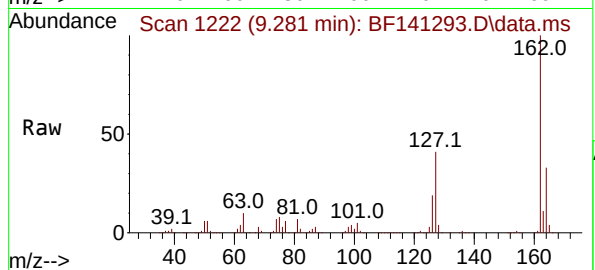
Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020



Tgt Ion:162 Resp: 377940

Ion Ratio Lower Upper

162 100

127 40.8 33.7 50.5

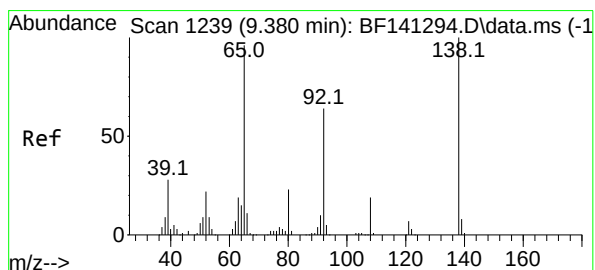
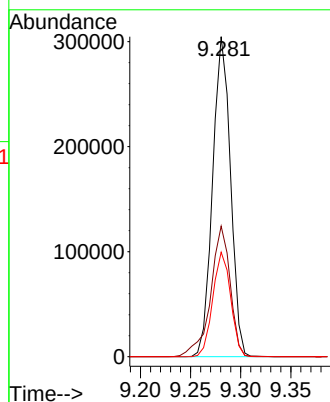
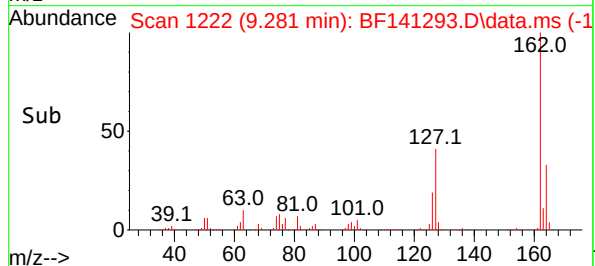
164 32.7 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#48

2-Nitroaniline

Concen: 21.310 ng

RT: 9.375 min Scan# 1238

Delta R.T. -0.006 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

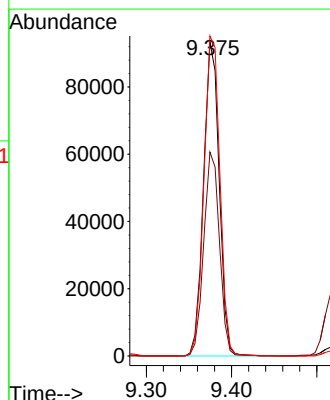
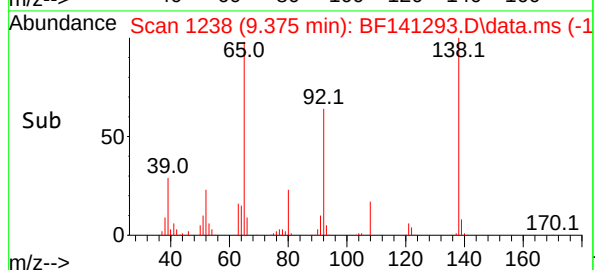
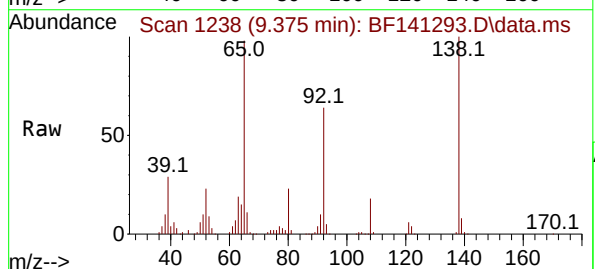
Tgt Ion: 65 Resp: 119359

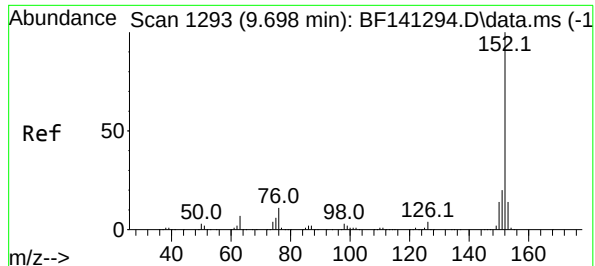
Ion Ratio Lower Upper

65 100

92 64.9 53.3 79.9

138 102.0 83.6 125.4





#49

Acenaphthylene

Concen: 21.328 ng

RT: 9.698 min Scan# 1293

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

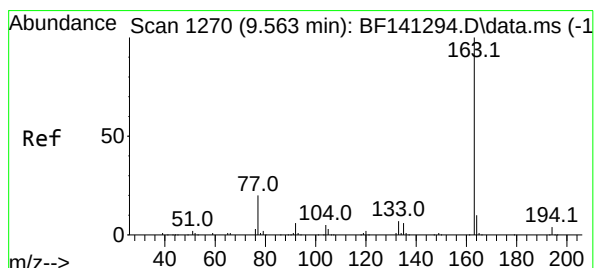
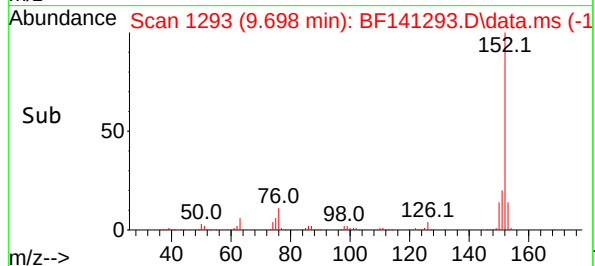
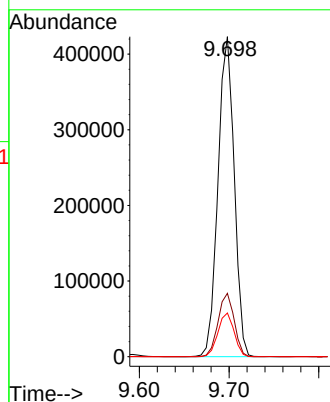
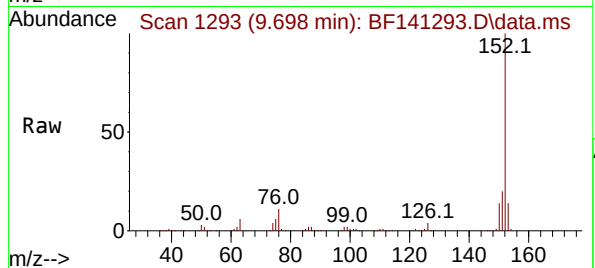
Tgt Ion:152	Resp: 53195
Ion Ratio	Lower Upper
152	100
151	19.8 16.2 24.2
153	13.7 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#50

Dimethylphthalate

Concen: 21.542 ng

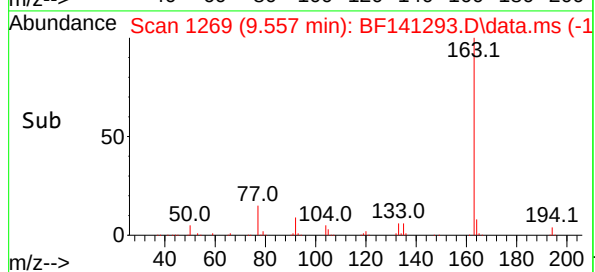
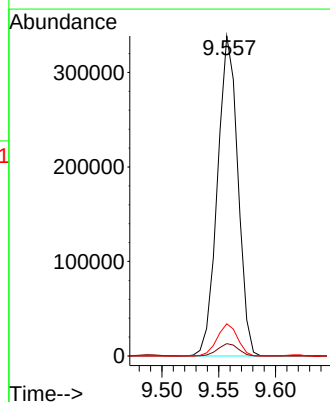
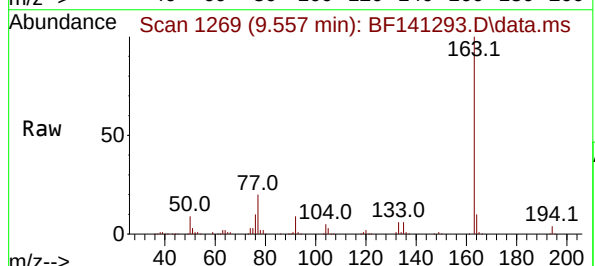
RT: 9.557 min Scan# 1269

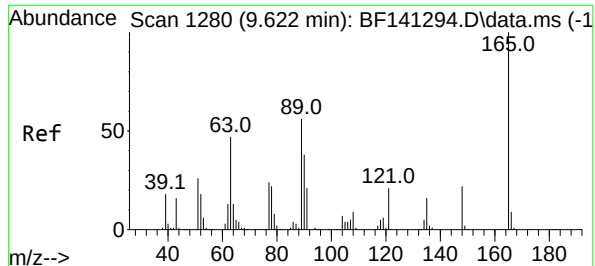
Delta R.T. -0.006 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Tgt Ion:163	Resp: 423377
Ion Ratio	Lower Upper
163	100
194	3.8 3.0 4.6
164	10.0 8.0 12.0





#51

2,6-Dinitrotoluene

Concen: 21.345 ng

RT: 9.622 min Scan# 1280

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:165 Resp: 9762

Ion Ratio Lower Upper

165 100

63 57.6 48.1 72.1

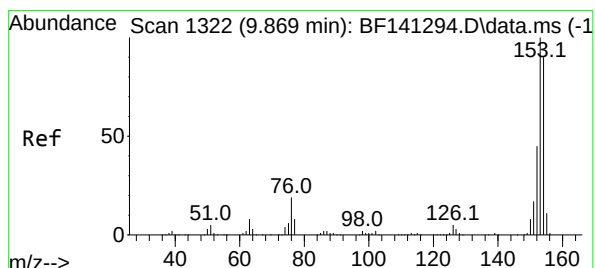
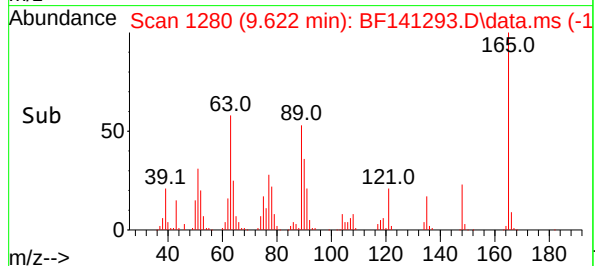
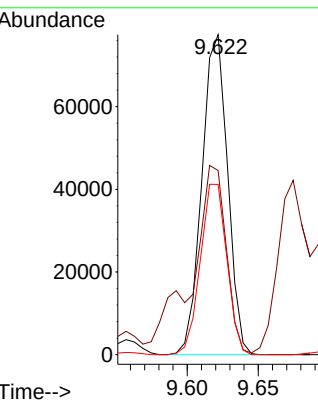
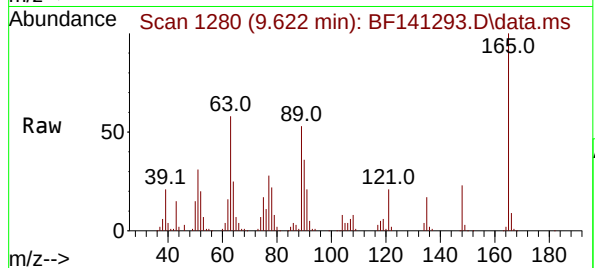
89 53.2 44.9 67.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#52

Acenaphthene

Concen: 21.328 ng

RT: 9.869 min Scan# 1322

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

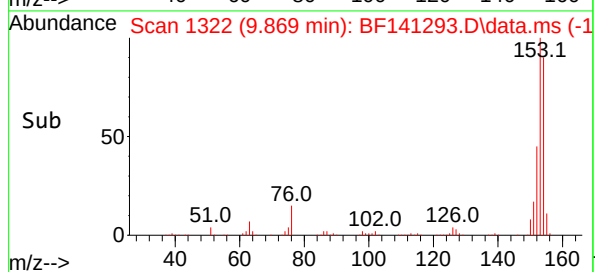
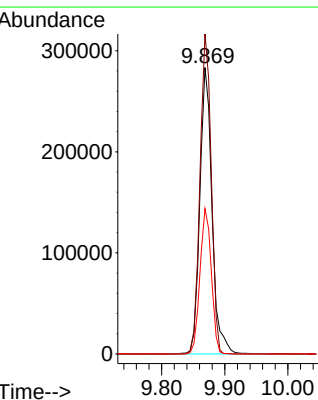
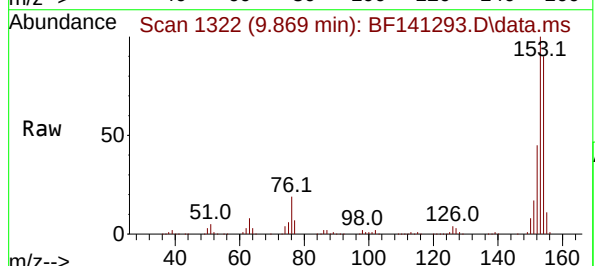
Tgt Ion:154 Resp: 378511

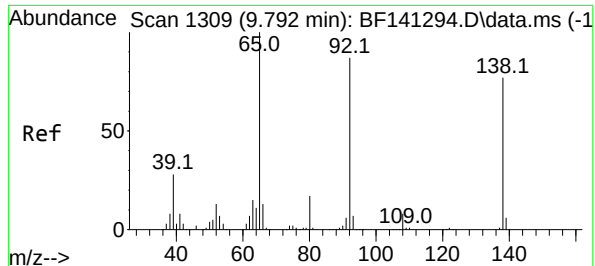
Ion Ratio Lower Upper

154 100

153 111.7 89.0 133.4

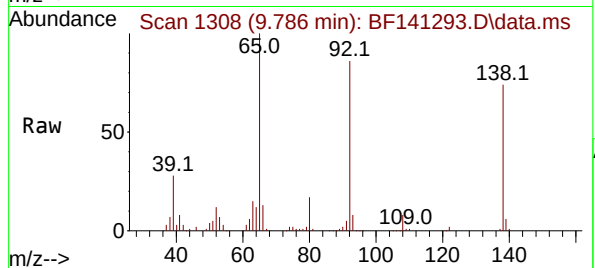
152 50.7 40.2 60.4





#53
3-Nitroaniline
Concen: 22.123 ng
RT: 9.786 min Scan# 1308
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

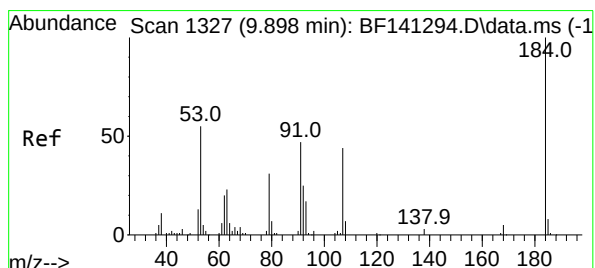
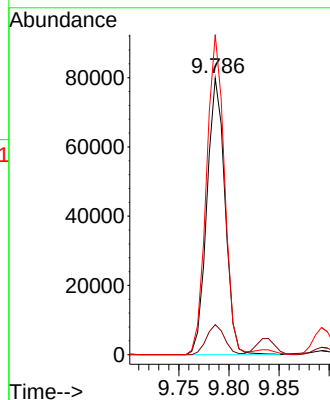
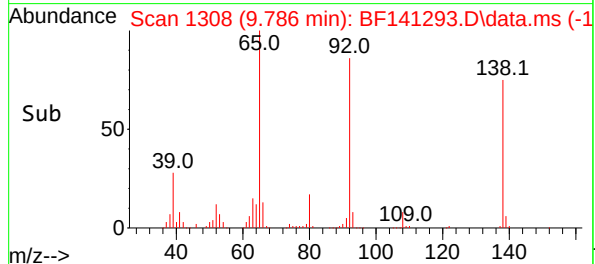
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:138 Resp: 100085
Ion Ratio Lower Upper
138 100
108 10.9 8.6 12.8
92 115.8 91.0 136.6

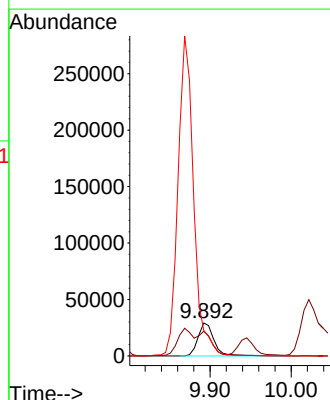
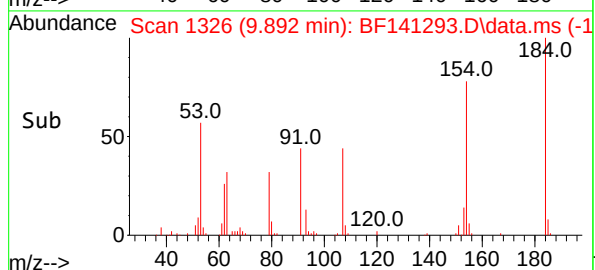
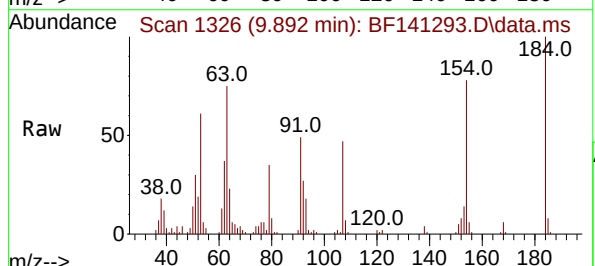
Manual Integrations
APPROVED

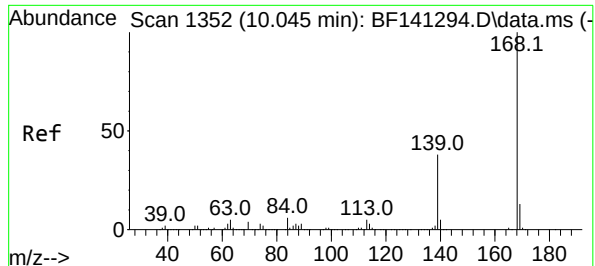
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#54
2,4-Dinitrophenol
Concen: 18.557 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:184 Resp: 40003
Ion Ratio Lower Upper
184 100
63 75.1 54.1 81.1
154 78.0 50.7 76.1#





#55

Dibenzenofuran

Concen: 21.665 ng

RT: 10.039 min Scan# 1351

Delta R.T. -0.006 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

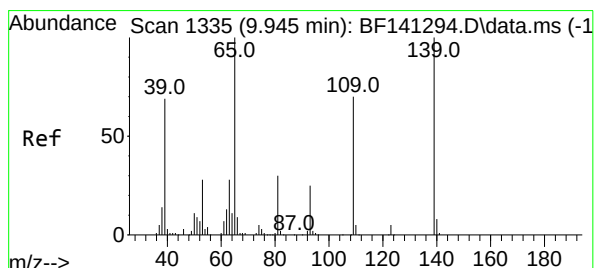
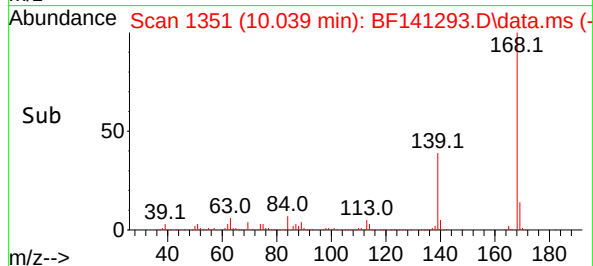
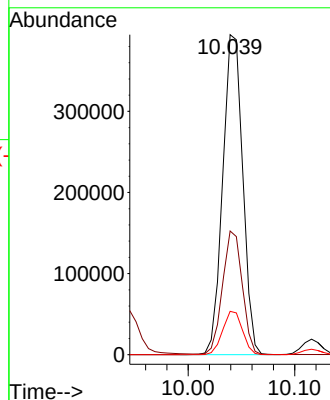
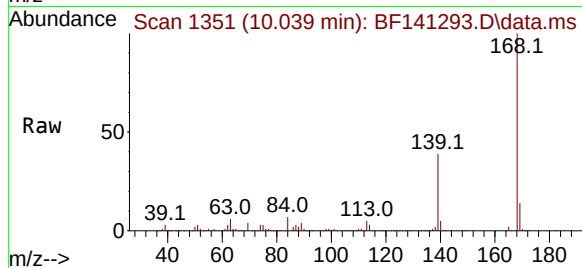
ClientSampleId :

SSTDICC020

Tgt Ion:168	Resp: 51422
Ion Ratio	Lower Upper
168	100
139	38.7 30.6 46.0
169	13.5 10.8 16.2

Manual Integrations
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Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#56

4-Nitrophenol

Concen: 22.607 ng

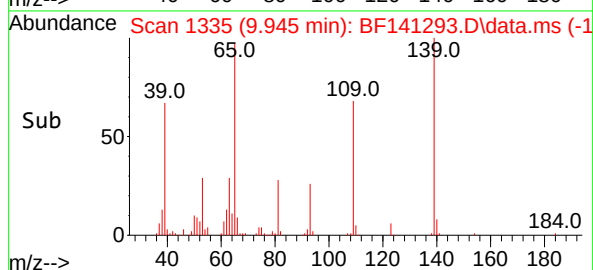
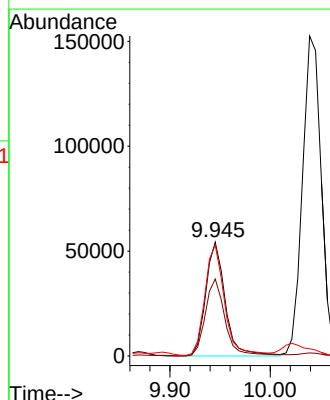
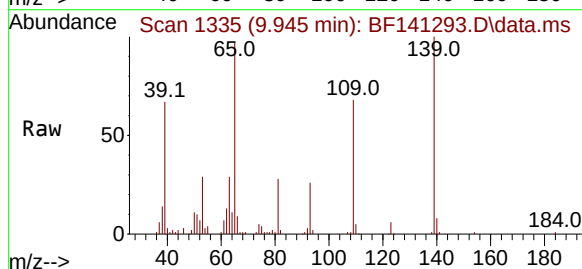
RT: 9.945 min Scan# 1335

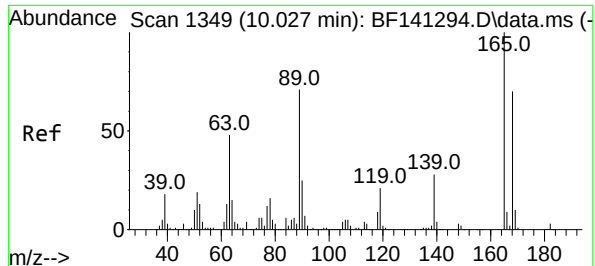
Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

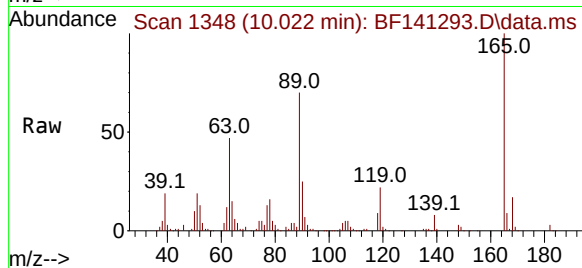
Tgt Ion:139	Resp: 73425
Ion Ratio	Lower Upper
139	100
109	67.7 50.2 90.2
65	97.5 80.6 120.6





#57
2,4-Dinitrotoluene
Concen: 22.027 ng
RT: 10.022 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

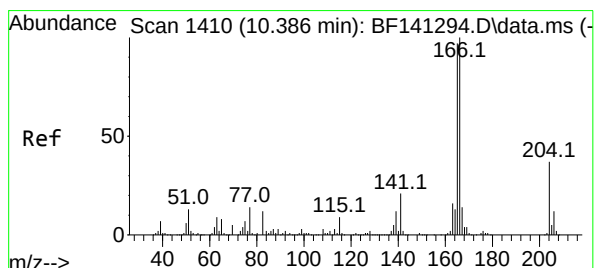
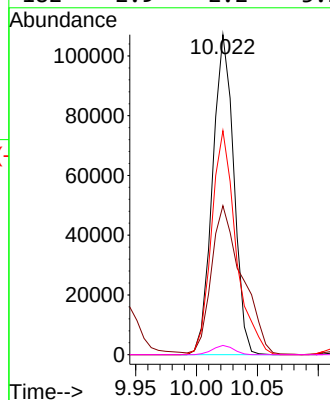
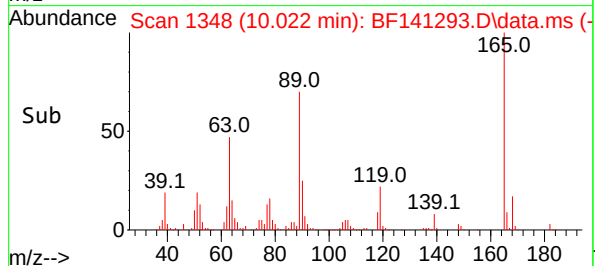
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



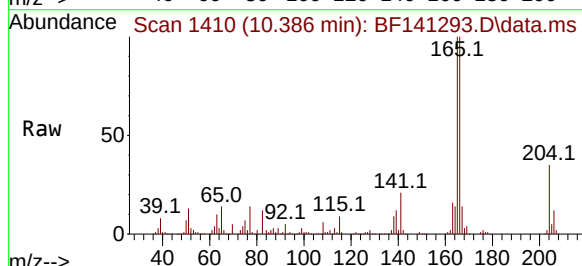
Tgt Ion:165 Resp: 12994
Ion Ratio Lower Upper
165 100
63 46.6 39.2 58.8
89 70.0 56.9 85.3
182 2.9 2.2 3.2

Manual Integrations
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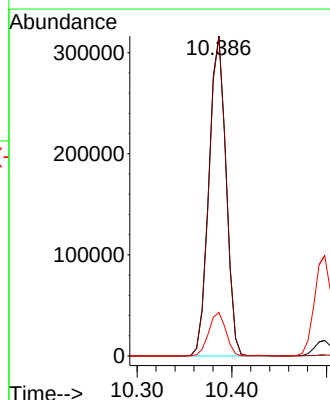
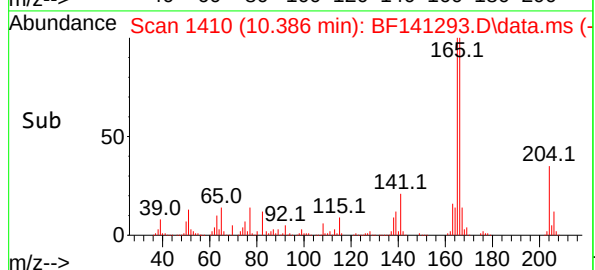
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

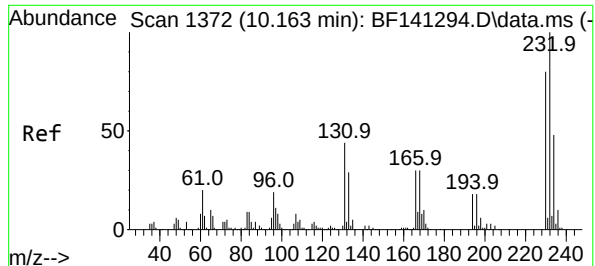


#58
Fluorene
Concen: 21.488 ng
RT: 10.386 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17



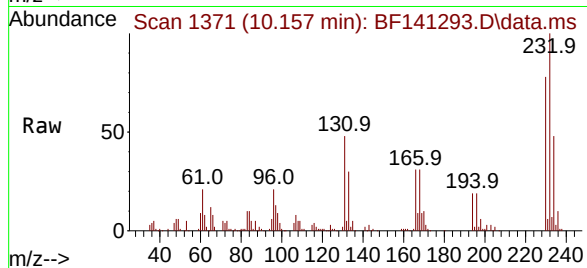
Tgt Ion:166 Resp: 396520
Ion Ratio Lower Upper
166 100
165 99.5 77.5 116.3
167 13.6 10.9 16.3





#59
2,3,4,6-Tetrachlorophenol
Concen: 21.354 ng
RT: 10.157 min Scan# 1371
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

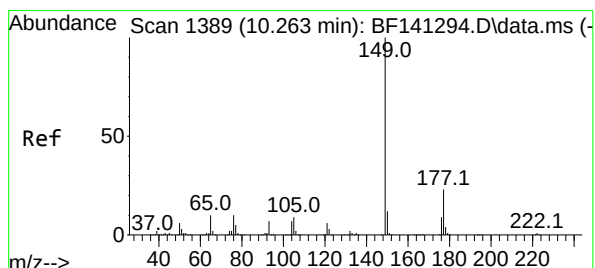
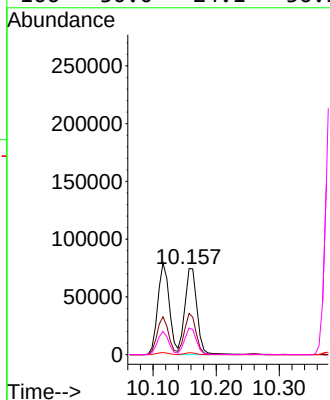
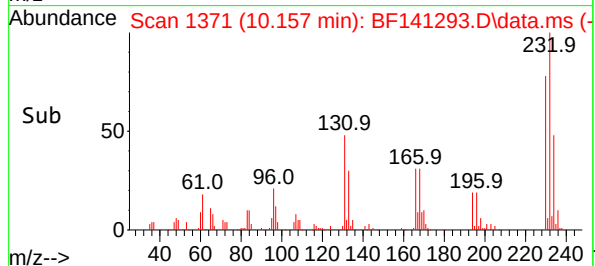
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



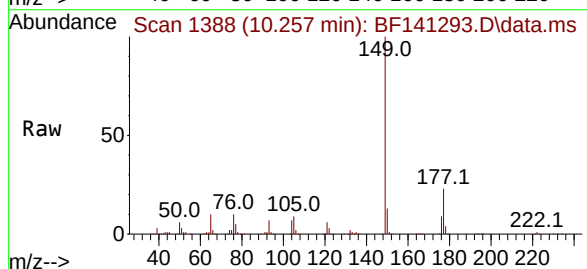
Tgt Ion:232 Resp: 9984
Ion Ratio Lower Upper
232 100
131 46.1 36.4 54.6
130 2.0 1.9 2.9
166 30.0 24.1 36.1

Manual Integrations
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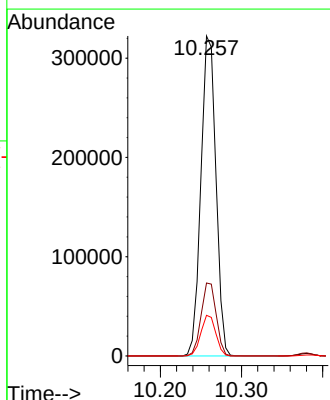
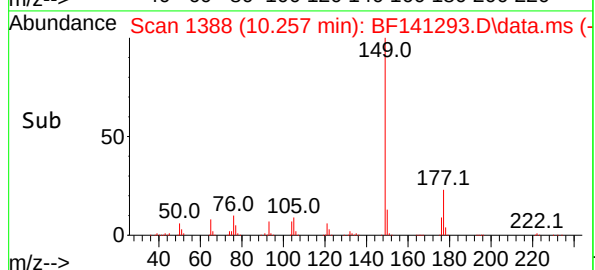
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

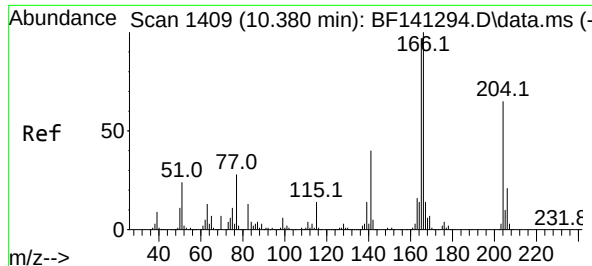


#60
Diethylphthalate
Concen: 21.745 ng
RT: 10.257 min Scan# 1388
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17



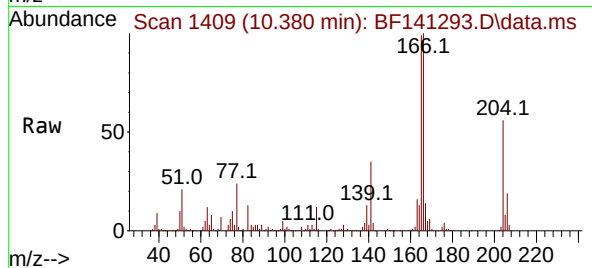
Tgt Ion:149 Resp: 413889
Ion Ratio Lower Upper
149 100
177 22.8 18.5 27.7
150 12.7 10.0 15.0





#61
4-Chlorophenyl-phenylether
Concen: 21.446 ng
RT: 10.380 min Scan# 1409
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

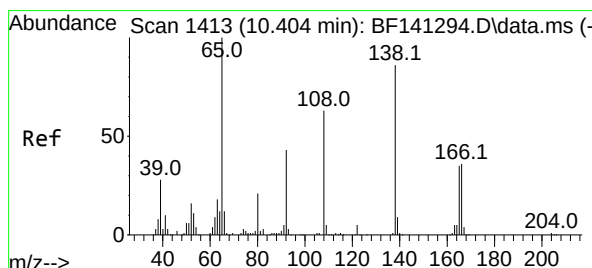
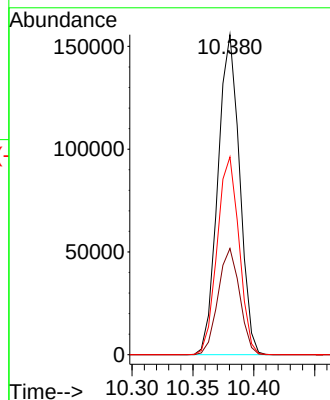
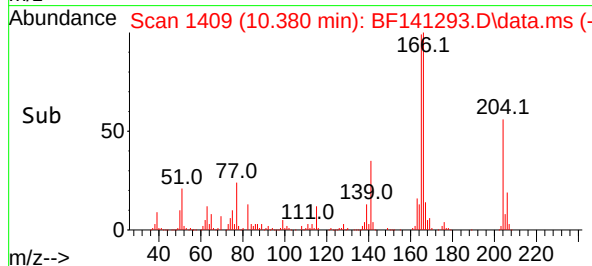
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:204 Resp: 193134
Ion Ratio Lower Upper
204 100
206 33.2 25.9 38.9
141 61.8 49.5 74.3

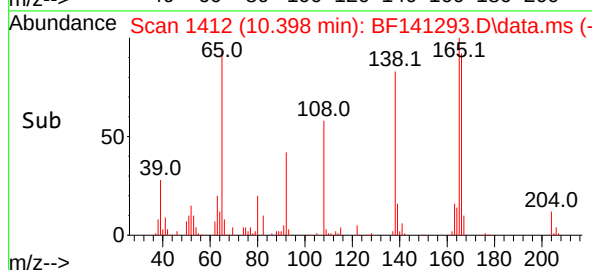
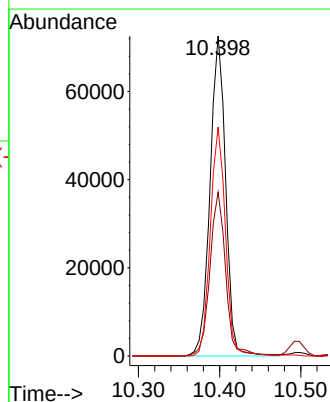
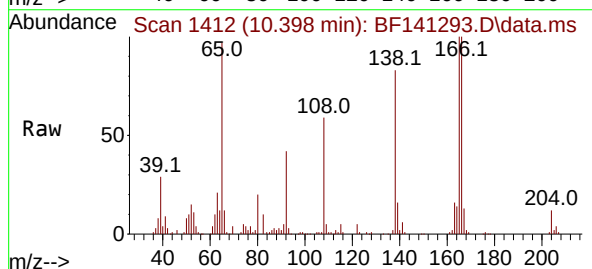
Manual Integrations
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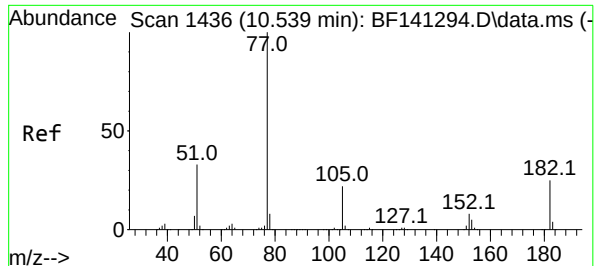
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#62
4-Nitroaniline
Concen: 22.250 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

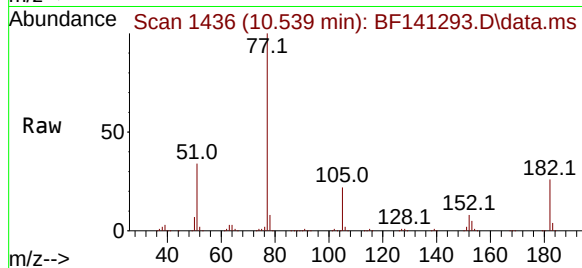
Tgt Ion:138 Resp: 96692
Ion Ratio Lower Upper
138 100
92 51.2 30.1 70.1
108 71.5 53.1 93.1





#63
Azobenzene
Concen: 21.358 ng
RT: 10.539 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

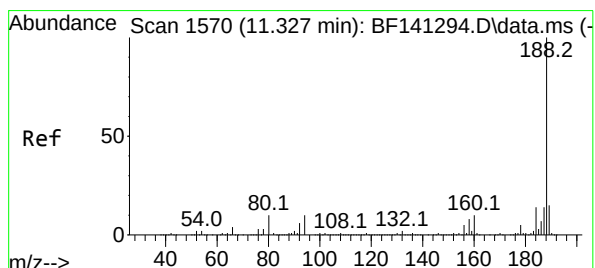
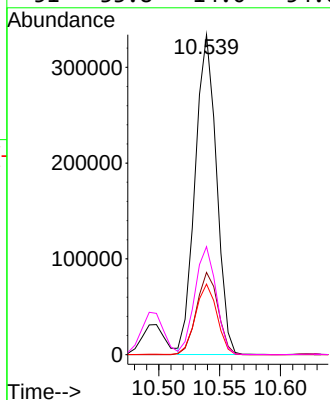
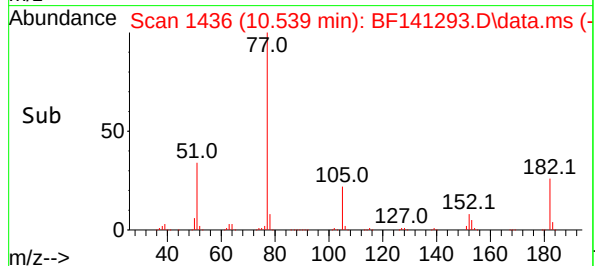
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion: 77 Resp: 407492
Ion Ratio Lower Upper
77 100
182 25.7 5.1 45.1
105 22.1 1.8 41.8
51 33.8 14.0 54.0

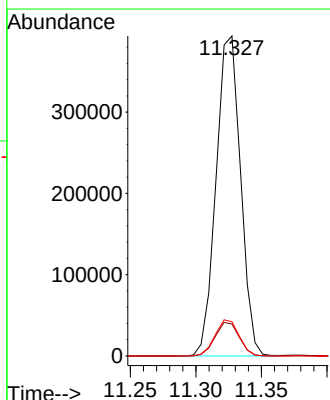
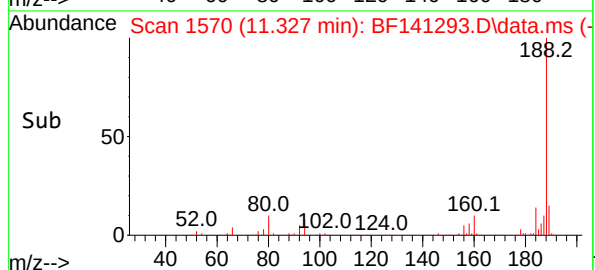
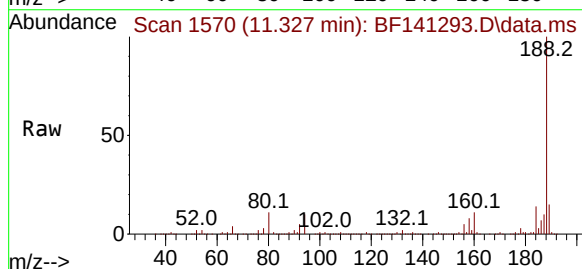
Manual Integrations
APPROVED

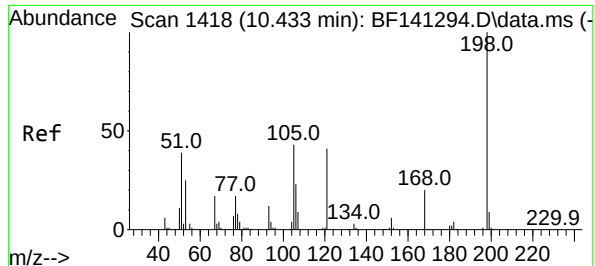
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1570
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

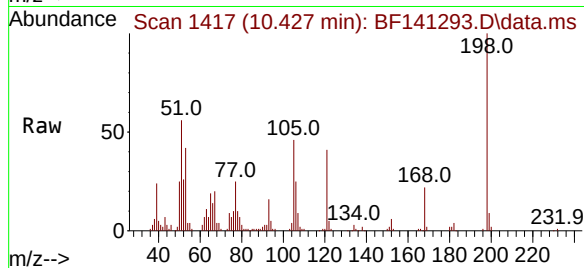
Tgt Ion:188 Resp: 511320
Ion Ratio Lower Upper
188 100
94 10.0 7.8 11.6
80 10.7 8.2 12.4





#65
4,6-Dinitro-2-methylphenol
Concen: 20.492 ng
RT: 10.427 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

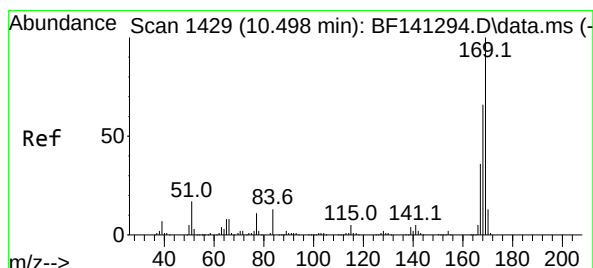
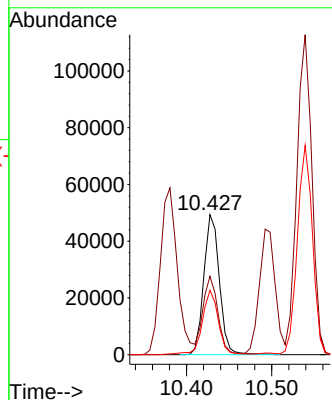
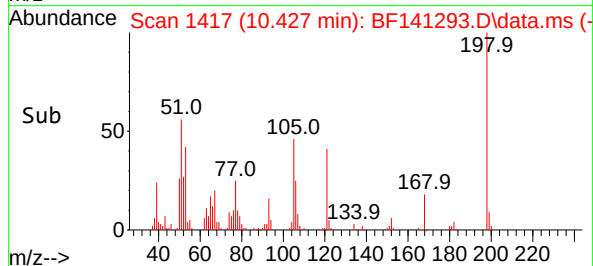
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:198 Resp: 62572
Ion Ratio Lower Upper
198 100
51 56.0 33.4 73.4
105 45.9 24.4 64.4

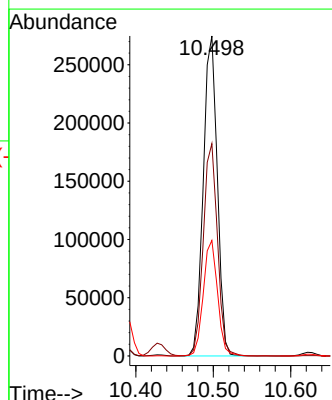
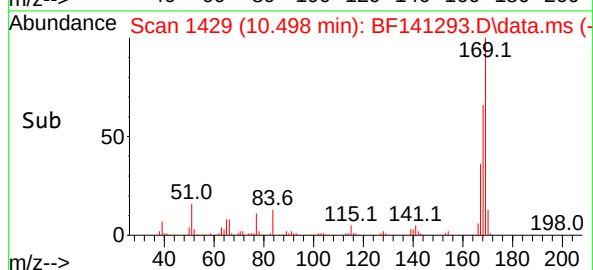
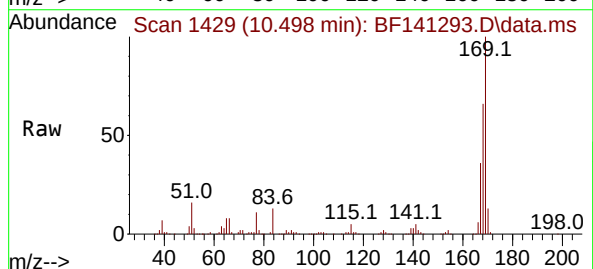
Manual Integrations
APPROVED

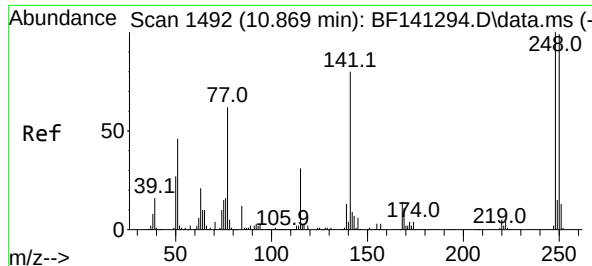
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#66
n-Nitrosodiphenylamine
Concen: 20.773 ng
RT: 10.498 min Scan# 1429
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

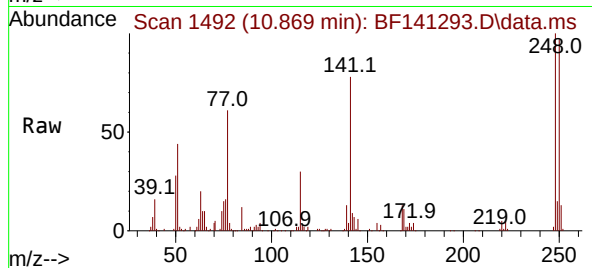
Tgt Ion:169 Resp: 344387
Ion Ratio Lower Upper
169 100
168 66.3 53.0 79.4
167 36.1 28.8 43.2





#67
4-Bromophenyl-phenylether
Concen: 20.967 ng
RT: 10.869 min Scan# 1492
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

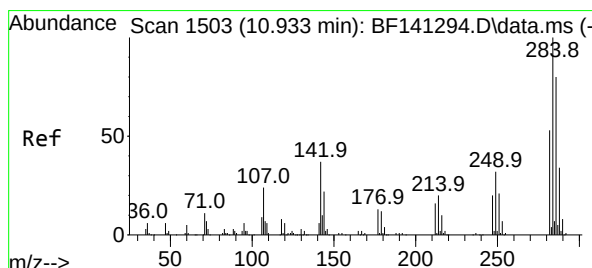
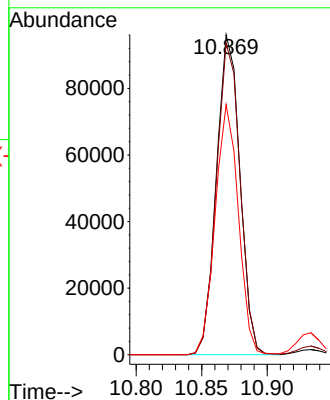
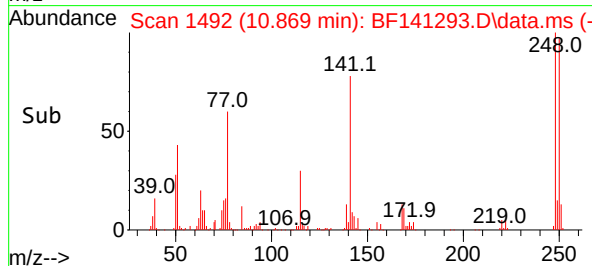
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



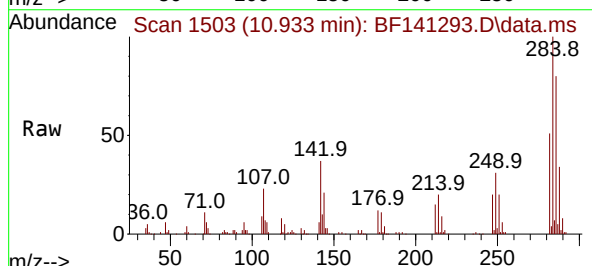
Tgt Ion:248 Resp: 119844
Ion Ratio Lower Upper
248 100
250 97.3 79.0 118.4
141 78.1 63.7 95.5

Manual Integrations
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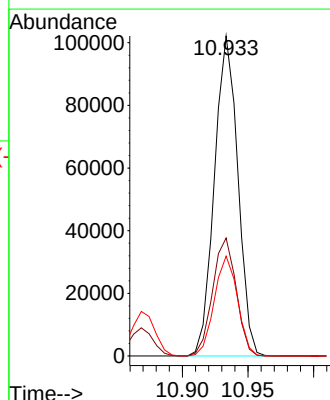
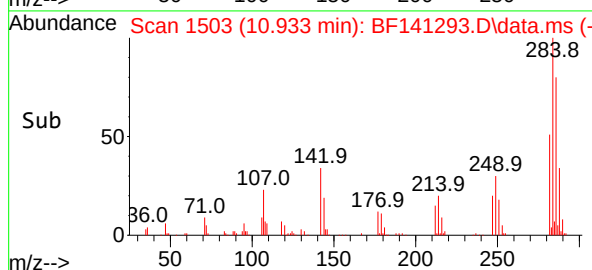
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

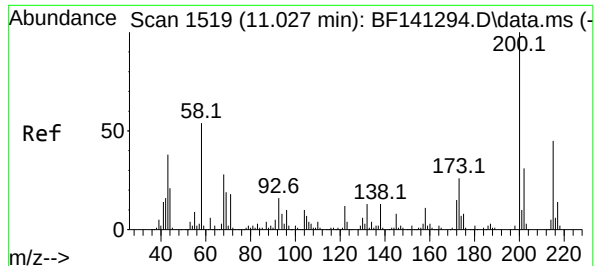


#68
Hexachlorobenzene
Concen: 20.917 ng
RT: 10.933 min Scan# 1503
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17



Tgt Ion:284 Resp: 126823
Ion Ratio Lower Upper
284 100
142 36.8 29.5 44.3
249 31.2 25.4 38.2





#69

Atrazine

Concen: 19.627 ng

RT: 11.022 min Scan# 1519

Delta R.T. -0.006 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:200 Resp: 10913

Ion Ratio Lower Upper

200 100

173 25.5 5.9 45.9

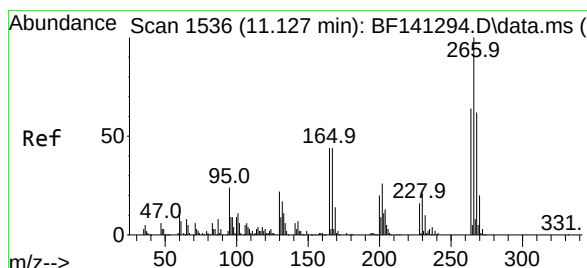
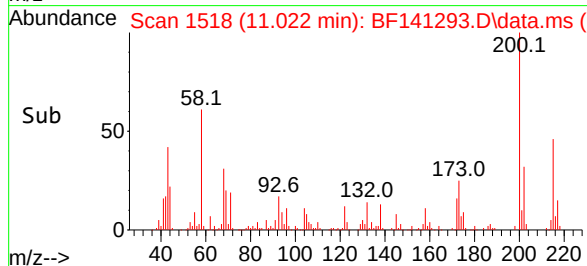
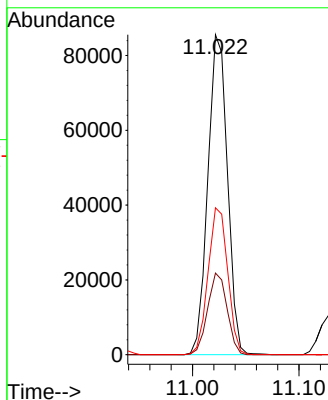
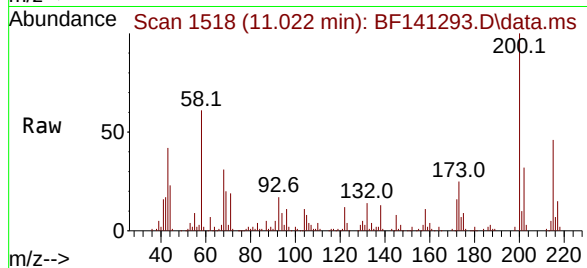
215 45.9 25.2 65.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#70

Pentachlorophenol

Concen: 20.958 ng

RT: 11.127 min Scan# 1536

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

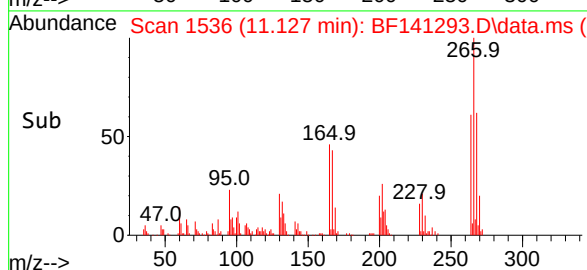
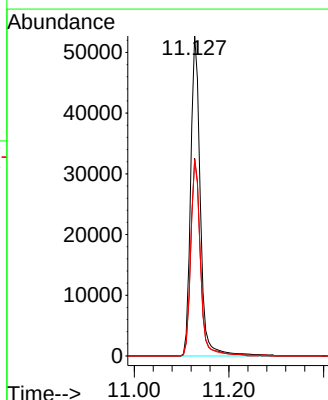
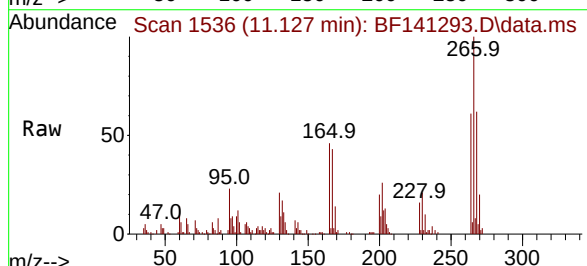
Tgt Ion:266 Resp: 74508

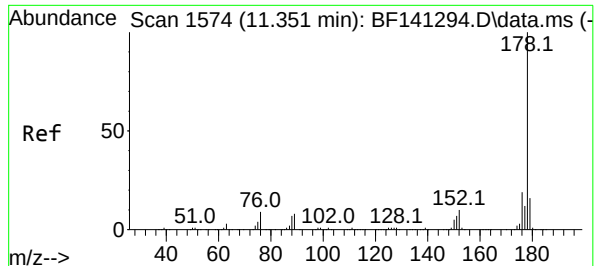
Ion Ratio Lower Upper

266 100

268 61.8 49.9 74.9

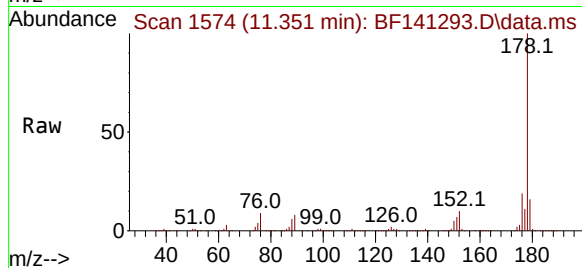
264 61.2 51.0 76.4





#71
Phenanthrene
Concen: 21.262 ng
RT: 11.351 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

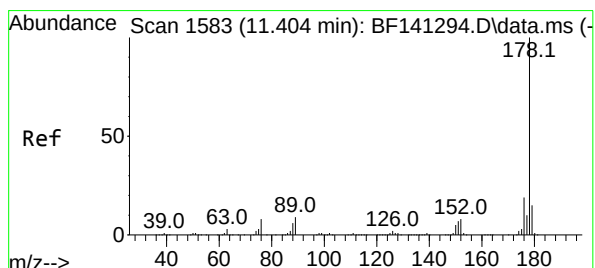
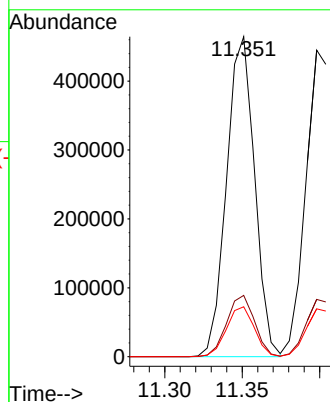
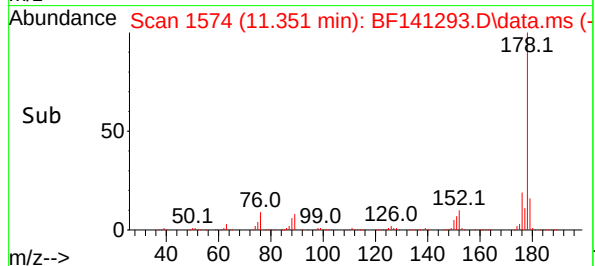
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:178 Resp: 58402
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.6 12.5 18.7

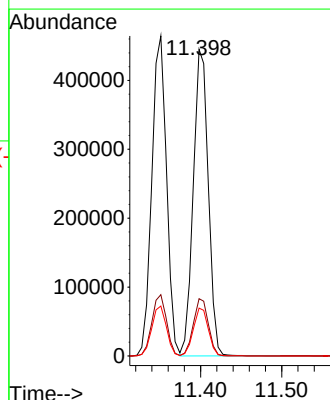
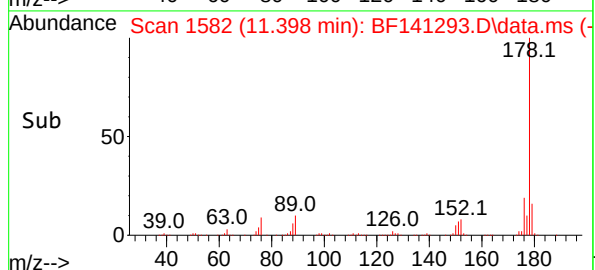
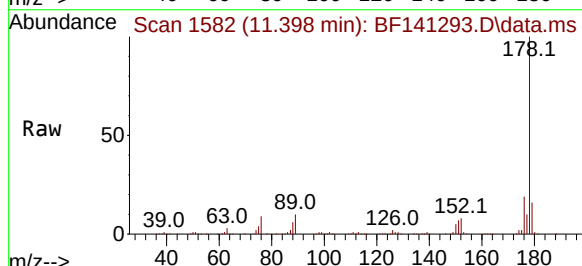
Manual Integrations
APPROVED

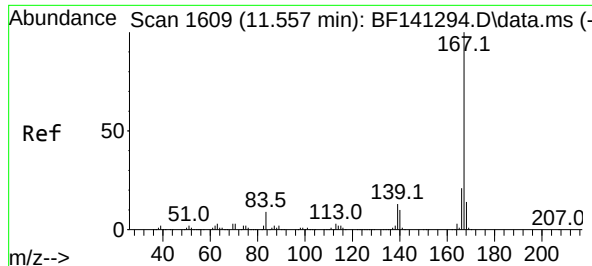
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#72
Anthracene
Concen: 21.377 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

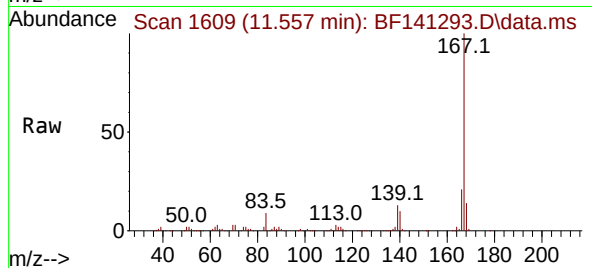
Tgt Ion:178 Resp: 572743
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.6 12.3 18.5





#73
Carbazole
Concen: 22.000 ng
RT: 11.557 min Scan# 1609
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

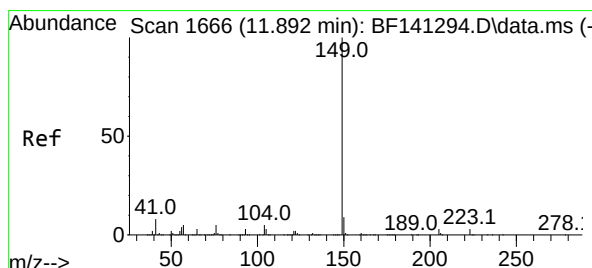
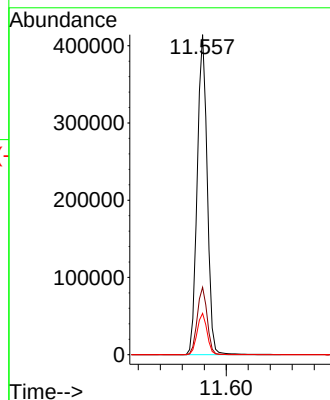
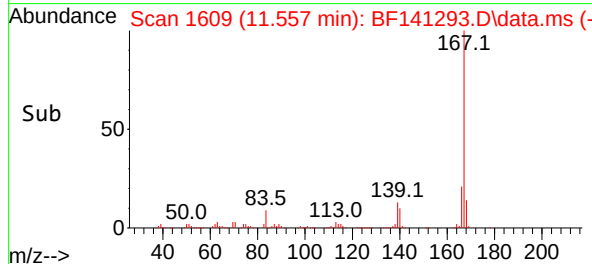
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



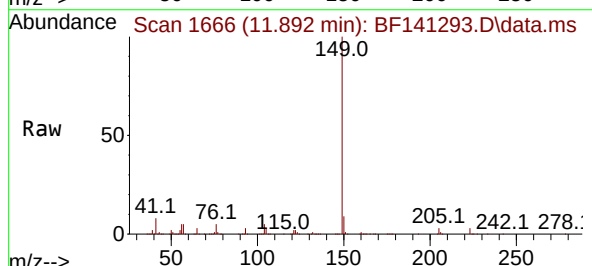
Tgt Ion:167 Resp: 522100
Ion Ratio Lower Upper
167 100
166 21.0 17.0 25.6
139 12.9 10.6 16.0

Manual Integrations
APPROVED

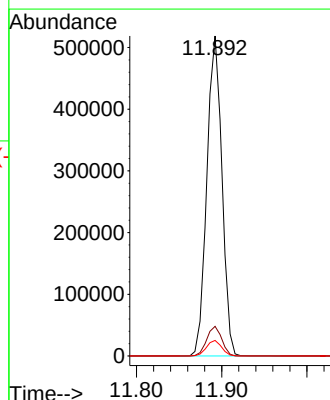
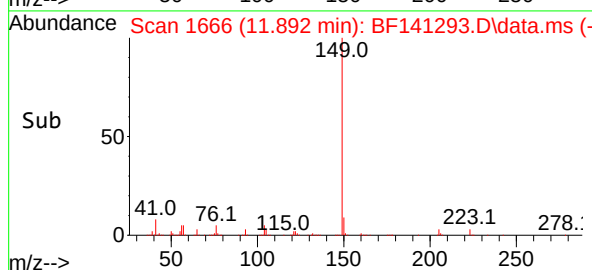
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

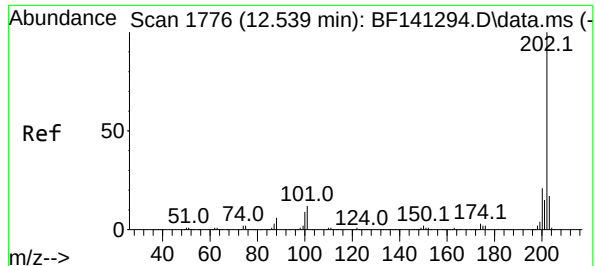


#74
Di-n-butylphthalate
Concen: 22.251 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17



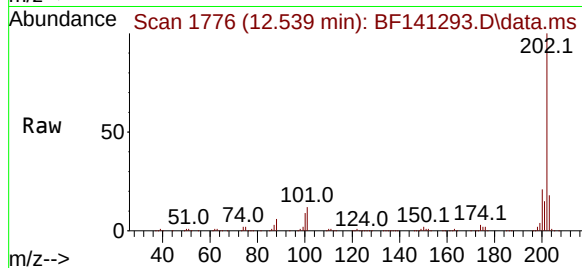
Tgt Ion:149 Resp: 636521
Ion Ratio Lower Upper
149 100
150 9.3 7.4 11.2
104 4.8 3.9 5.9





#75
Fluoranthene
Concen: 22.808 ng
RT: 12.539 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

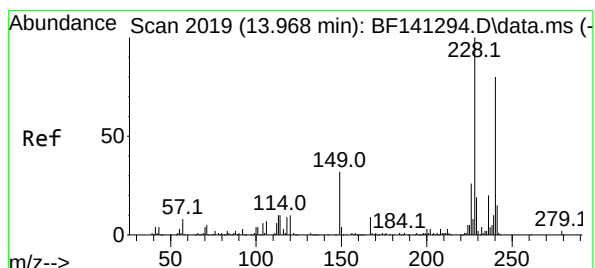
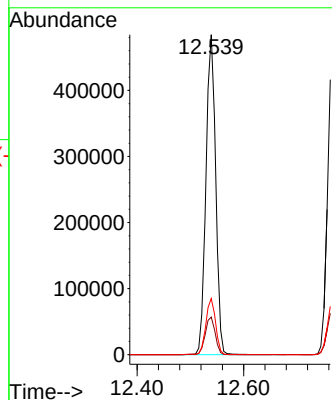
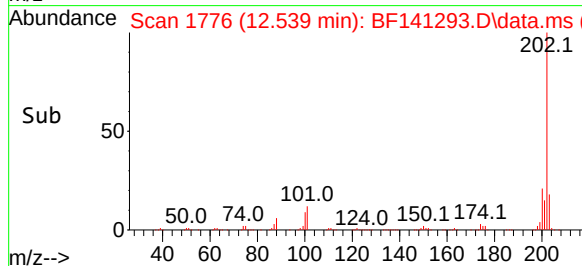
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



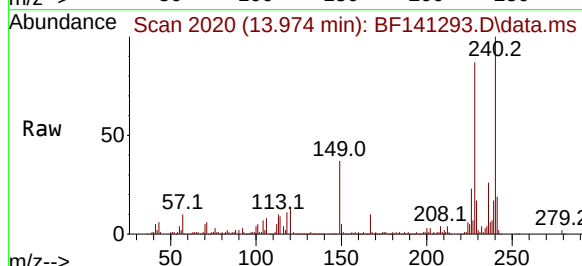
Tgt Ion:202 Resp: 611492
Ion Ratio Lower Upper
202 100
101 11.8 0.0 31.7
203 17.5 0.0 37.5

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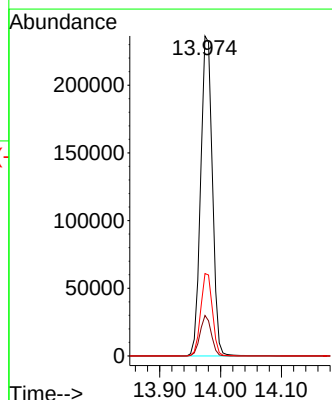
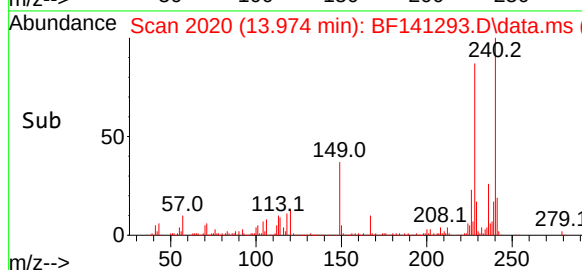
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

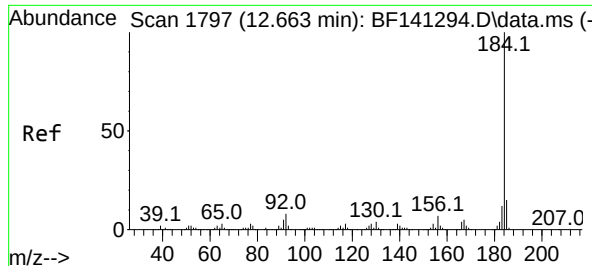


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2020
Delta R.T. 0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17



Tgt Ion:240 Resp: 314234
Ion Ratio Lower Upper
240 100
120 12.7 10.0 15.0
236 25.8 19.7 29.5





#77

Benzidine

Concen: 6.904 ng

RT: 12.663 min Scan# 1797

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

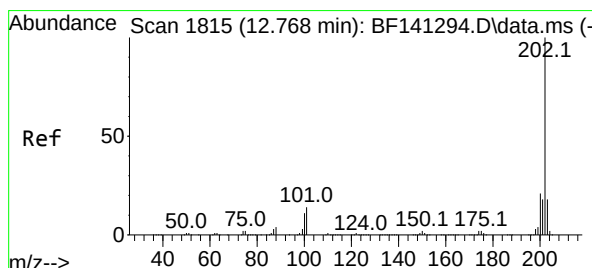
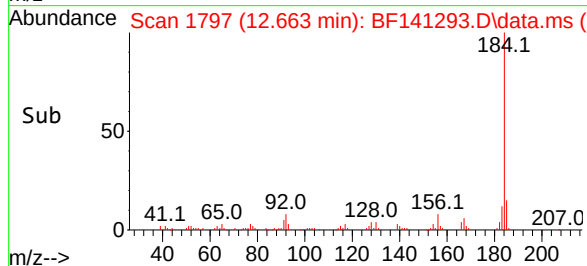
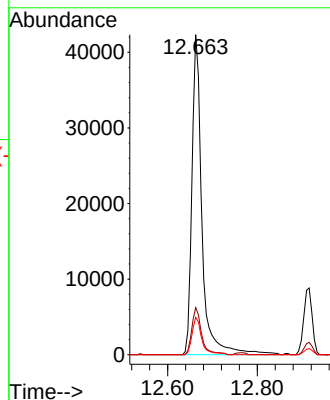
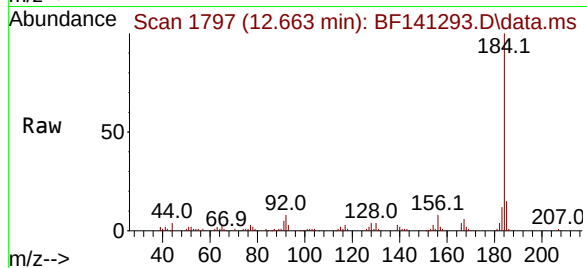
SSTDICC020

Tgt Ion:184	Resp: 6596
Ion Ratio	Lower Upper
184	100
185	14.7 11.9 17.9
183	11.7 9.5 14.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#78

Pyrene

Concen: 20.739 ng

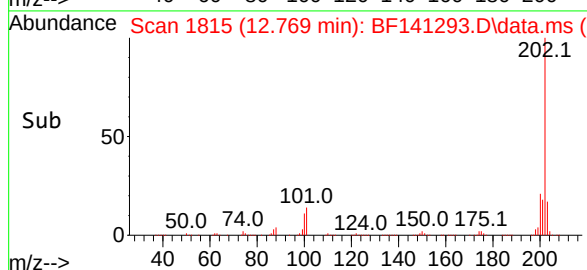
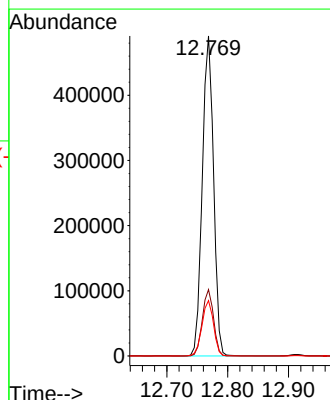
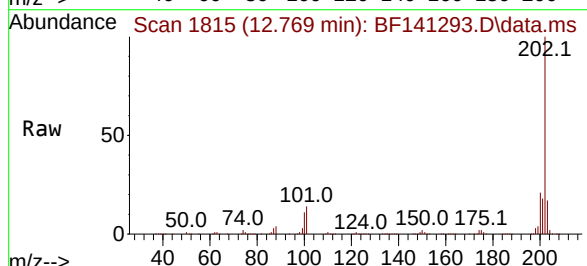
RT: 12.769 min Scan# 1815

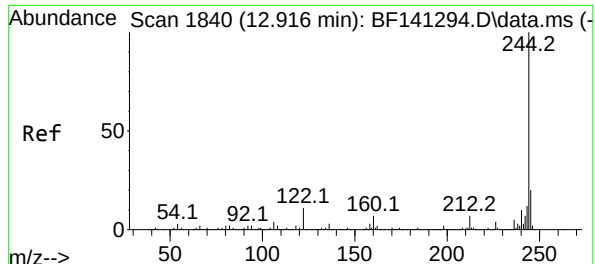
Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Tgt Ion:202	Resp: 629228
Ion Ratio	Lower Upper
202	100
200	20.7 17.0 25.4
203	17.3 14.3 21.5





#79

Terphenyl-d14

Concen: 42.159 ng

RT: 12.916 min Scan# 1840

Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

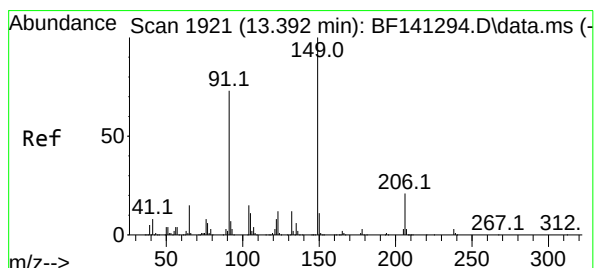
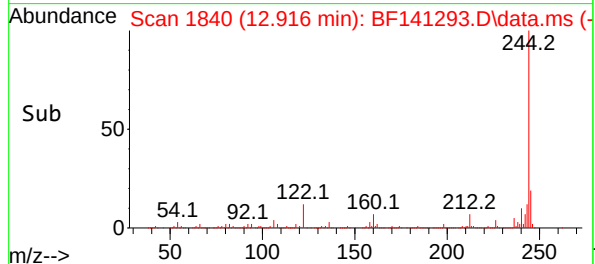
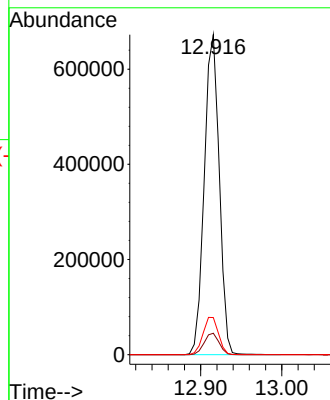
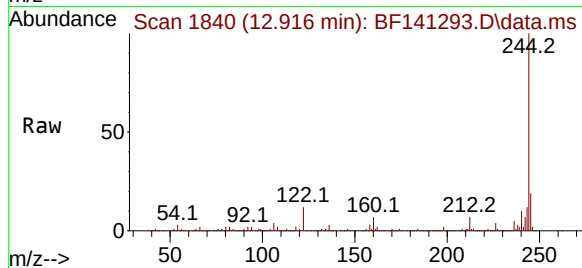
ClientSampleId :

SSTDICC020

Tgt Ion:244	Resp: 86095
Ion Ratio	Lower Upper
244	100
212	6.7 5.4 8.0
122	11.6 8.8 13.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#80

Butylbenzylphthalate

Concen: 22.149 ng

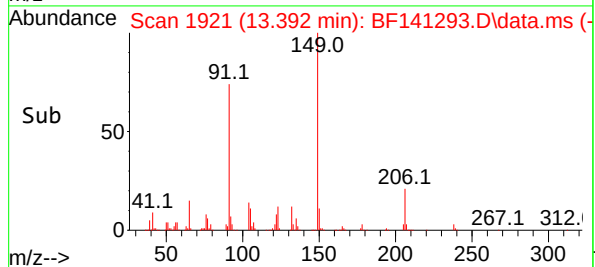
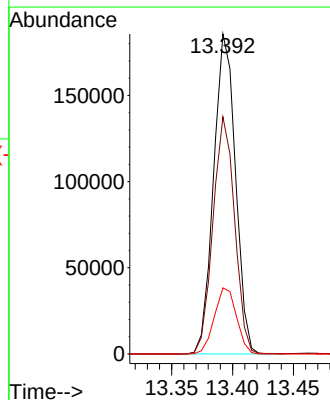
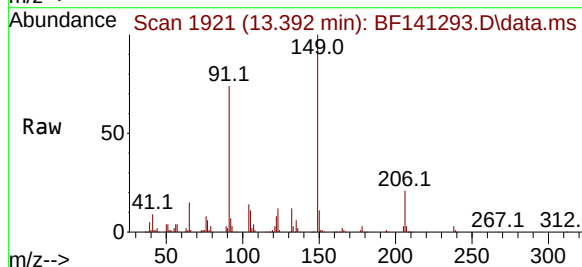
RT: 13.392 min Scan# 1921

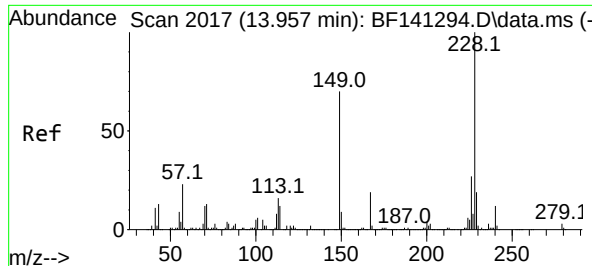
Delta R.T. 0.000 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

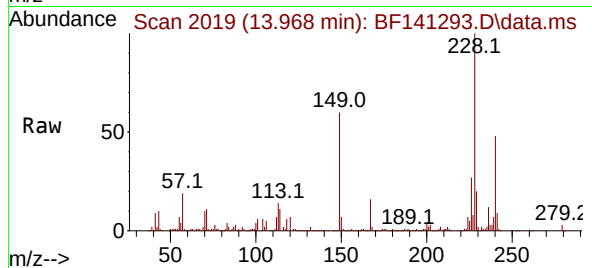
Tgt Ion:149	Resp: 232095
Ion Ratio	Lower Upper
149	100
91	74.1 58.6 87.8
206	20.7 16.7 25.1





#81
Benzo(a)anthracene
Concen: 21.197 ng
RT: 13.968 min Scan# 2018
Delta R.T. 0.012 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

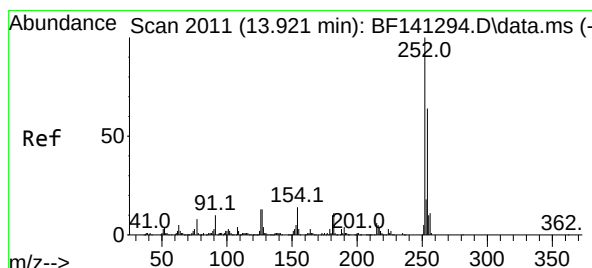
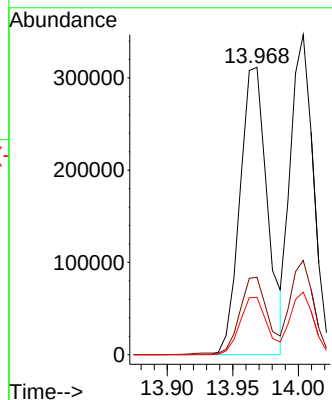
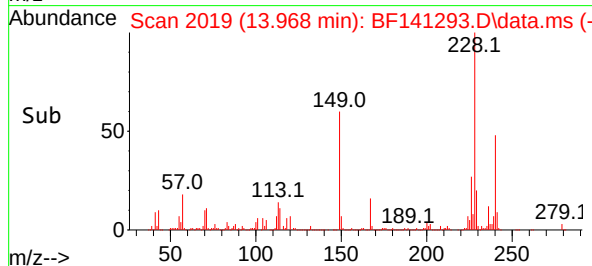
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:228 Resp: 45653
Ion Ratio Lower Upper
228 100
226 27.0 21.4 32.2
229 19.9 15.5 23.3

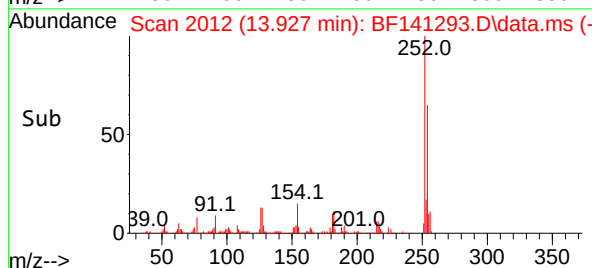
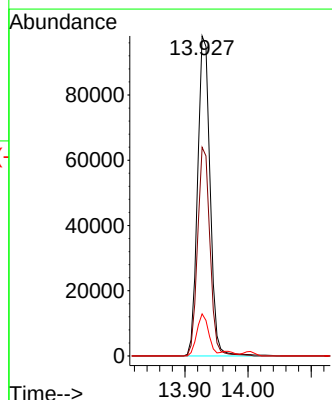
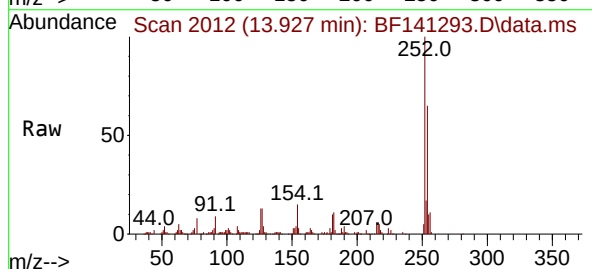
Manual Integrations
APPROVED

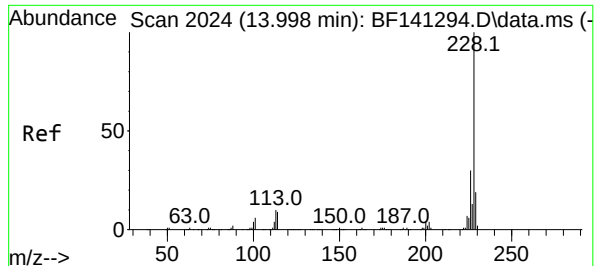
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#82
3,3'-Dichlorobenzidine
Concen: 19.914 ng
RT: 13.927 min Scan# 2012
Delta R.T. 0.006 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:252 Resp: 134298
Ion Ratio Lower Upper
252 100
254 65.2 51.3 76.9
126 13.2 10.0 15.0





#83

Chrysene

Concen: 21.122 ng

RT: 14.004 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:228 Resp: 421849

Ion Ratio Lower Upper

228 100

226 29.4 24.1 36.1

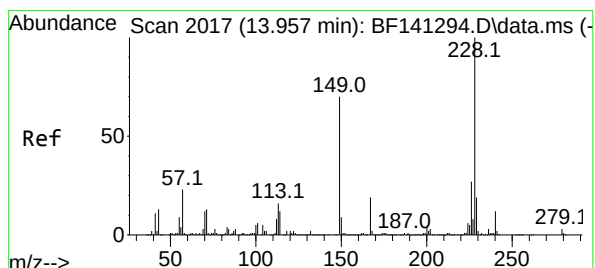
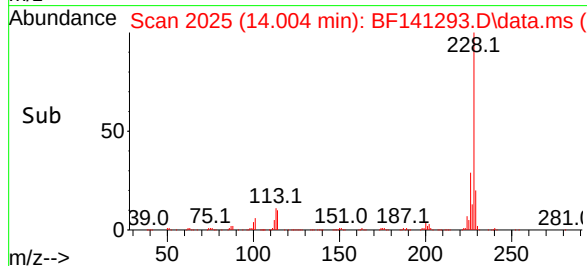
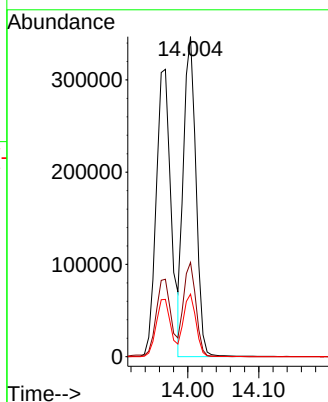
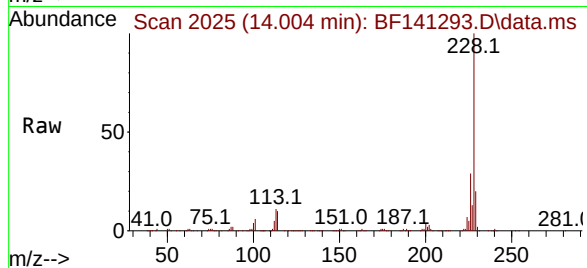
229 19.5 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 22.857 ng

RT: 13.963 min Scan# 2018

Delta R.T. 0.006 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

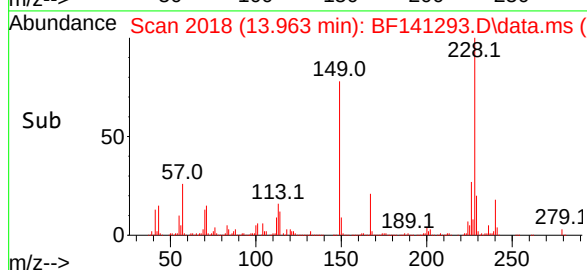
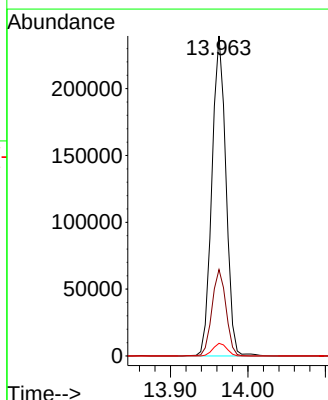
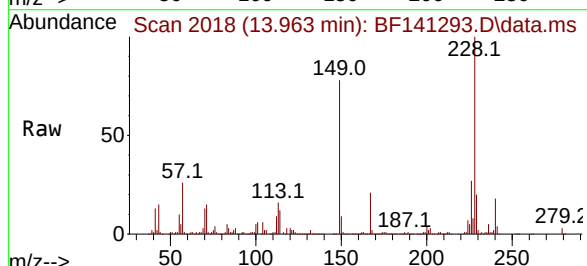
Tgt Ion:149 Resp: 300546

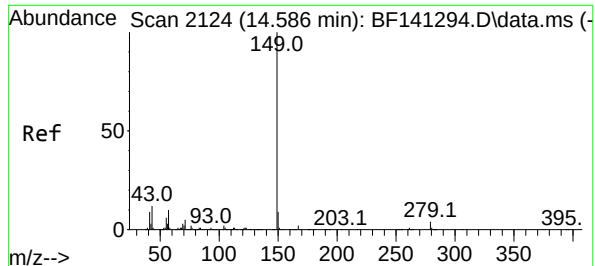
Ion Ratio Lower Upper

149 100

167 27.0 21.8 32.8

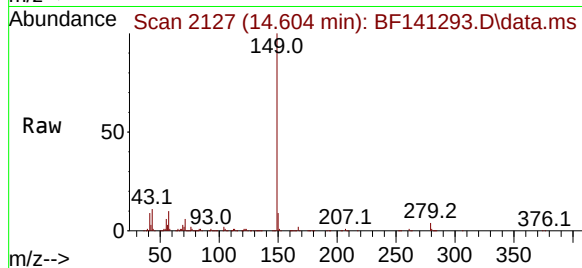
279 3.9 3.3 4.9





#85
Di-n-octyl phthalate
Concen: 21.964 ng
RT: 14.604 min Scan# 2124
Delta R.T. 0.018 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

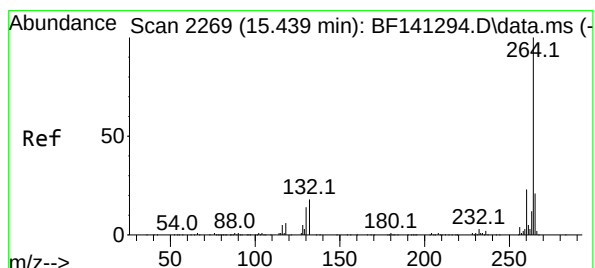
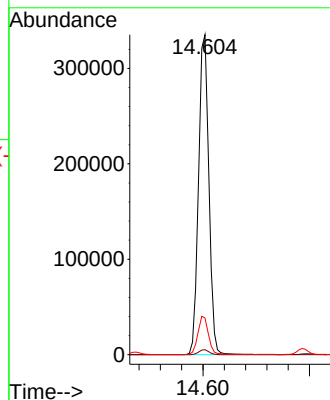
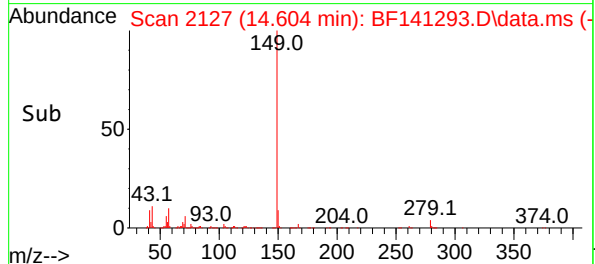
Instrument :
BNA_F
ClientSampleId :
SSTDICC020



Tgt Ion:149 Resp: 451748
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 12.4 9.8 14.8

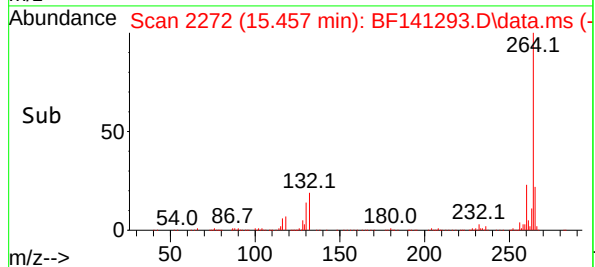
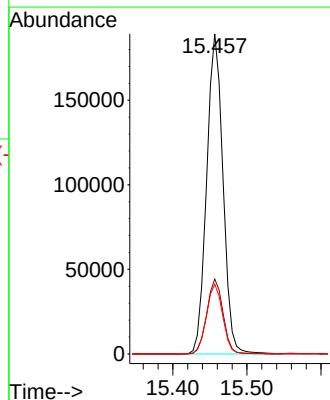
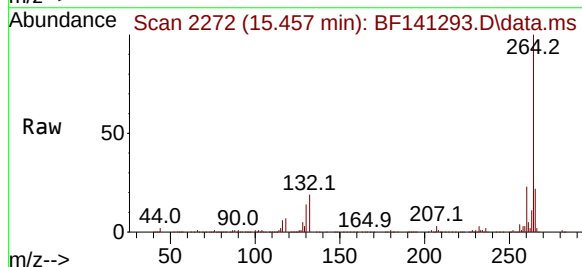
Manual Integrations
APPROVED

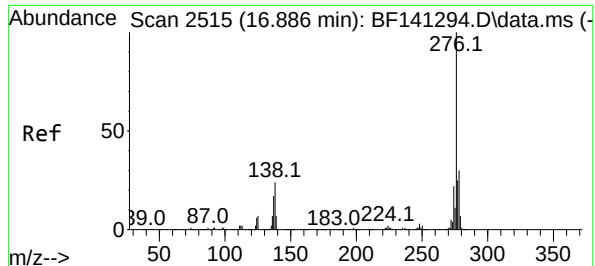
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.457 min Scan# 2272
Delta R.T. 0.018 min
Lab File: BF141293.D
Acq: 29 Jan 2025 15:17

Tgt Ion:264 Resp: 289582
Ion Ratio Lower Upper
264 100
260 23.4 18.6 27.8
265 21.8 16.7 25.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 20.466 ng

RT: 16.909 min Scan# 21

Delta R.T. 0.024 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

SSTDICC020

Tgt Ion:276 Resp: 387089

Ion Ratio Lower Upper

276 100

138 27.6 21.7 32.5

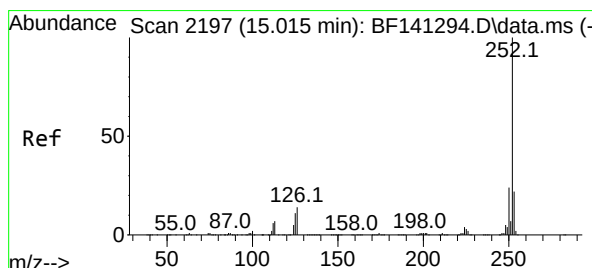
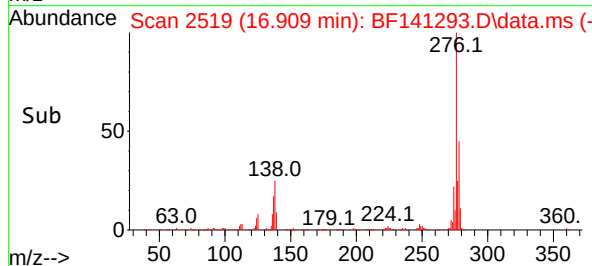
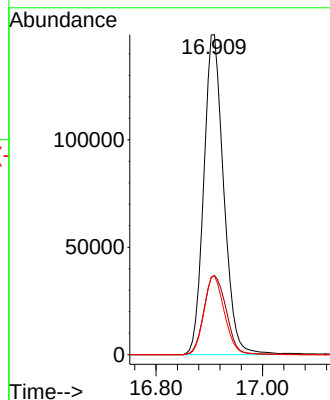
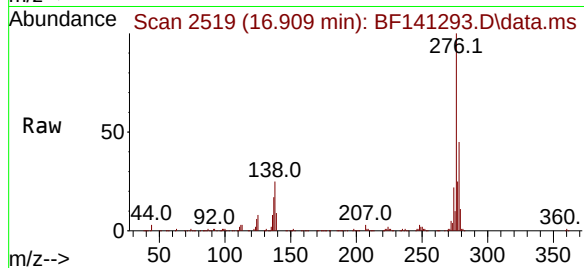
277 25.5 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#88

Benzo(b)fluoranthene

Concen: 21.383 ng

RT: 15.033 min Scan# 2200

Delta R.T. 0.018 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

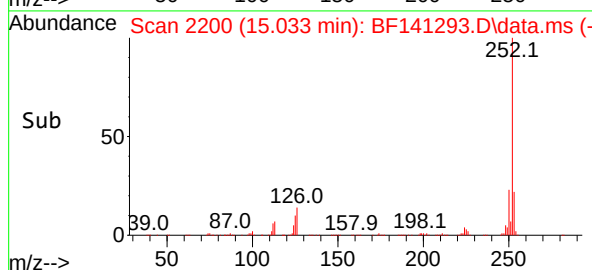
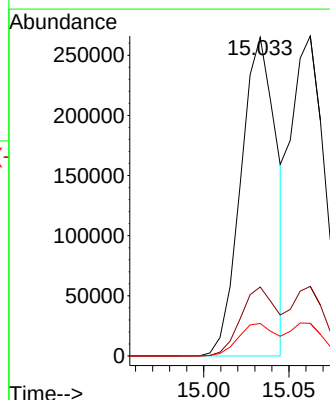
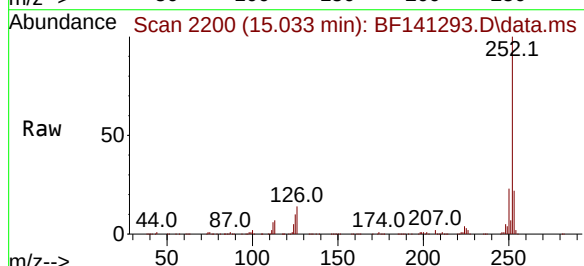
Tgt Ion:252 Resp: 384557

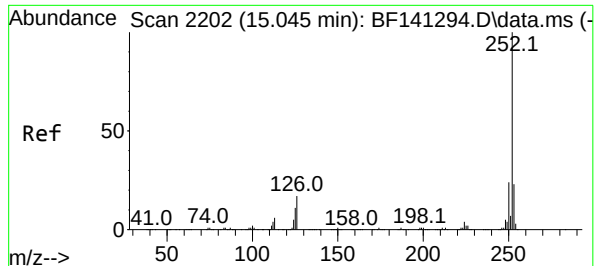
Ion Ratio Lower Upper

252 100

253 21.7 17.4 26.2

125 10.2 8.6 12.8





#89

Benzo(k)fluoranthene

Concen: 22.900 ng

RT: 15.062 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

ClientSampleId :

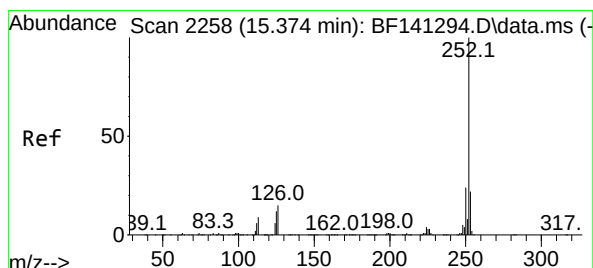
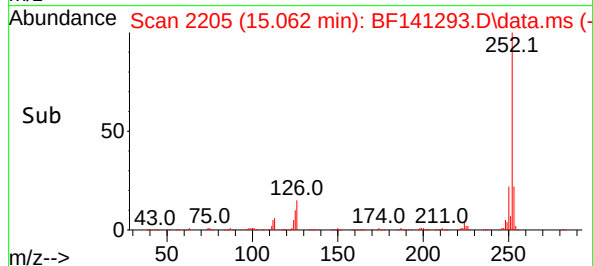
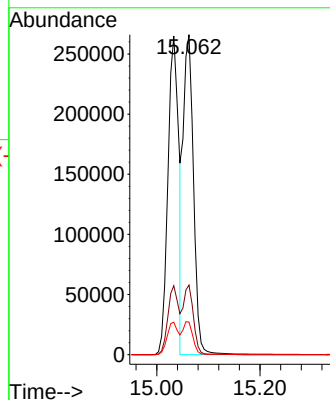
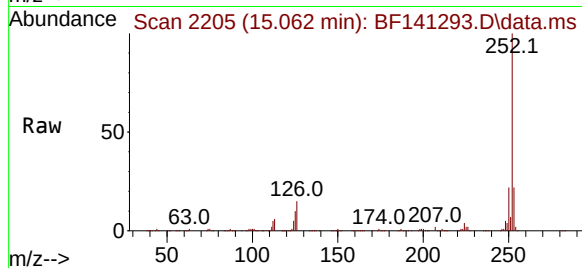
SSTDICC020

Tgt Ion:252 Resp: 36880

Ion	Ratio	Lower	Upper
252	100		
253	21.8	17.6	26.4
125	10.2	8.4	12.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#90

Benzo(a)pyrene

Concen: 21.317 ng

RT: 15.392 min Scan# 2261

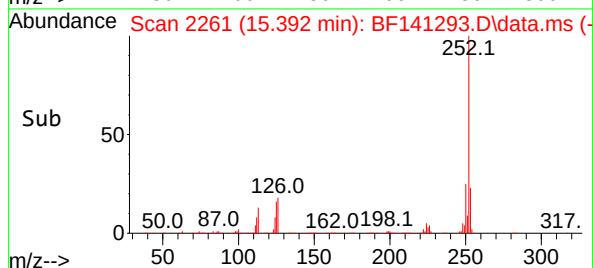
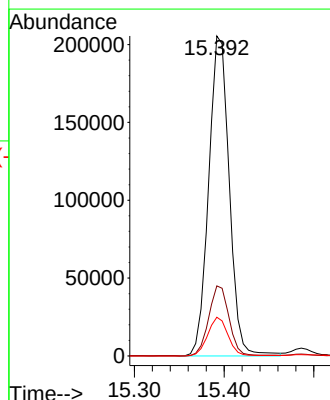
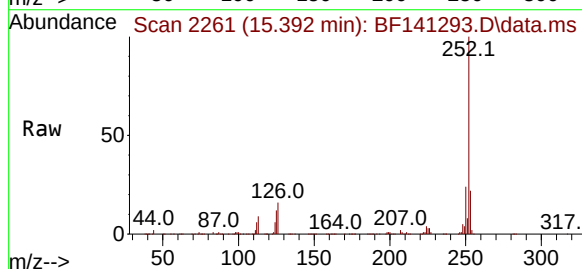
Delta R.T. 0.018 min

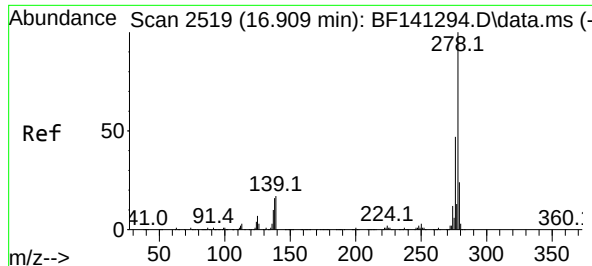
Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Tgt Ion:252 Resp: 327630

Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.2	25.8
125	12.1	9.4	14.2





#91

Dibenzo(a,h)anthracene

Concen: 21.026 ng

RT: 16.927 min Scan# 2519

Delta R.T. 0.018 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Instrument :

BNA_F

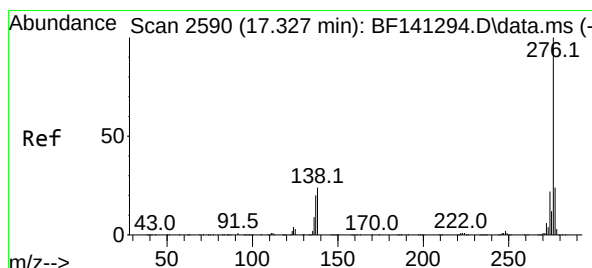
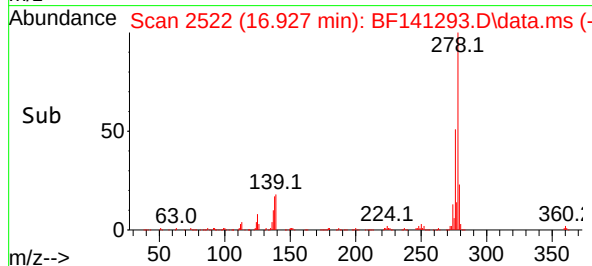
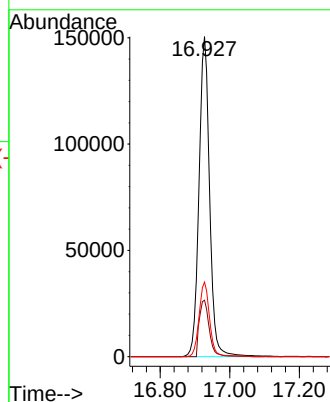
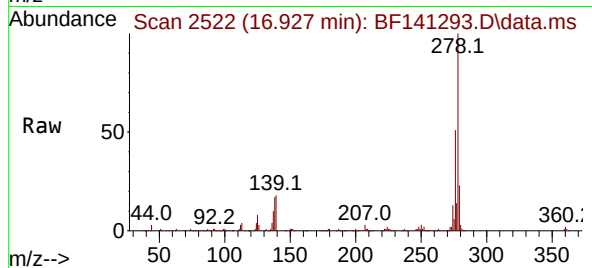
ClientSampleId :

SSTDICC020

Tgt Ion:278 Resp: 318776
Ion Ratio Lower Upper
278 100
139 17.7 13.9 20.9
279 23.3 18.8 28.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#92

Benzo(g,h,i)perylene

Concen: 20.684 ng

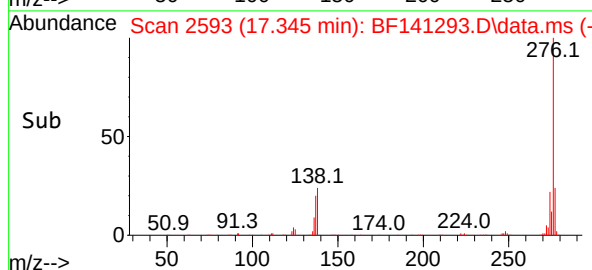
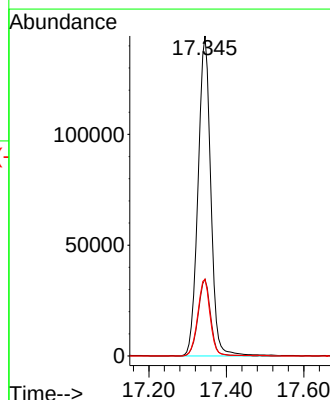
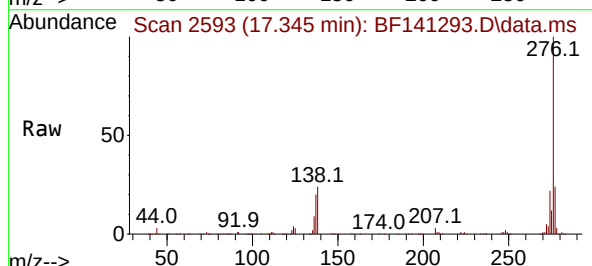
RT: 17.345 min Scan# 2593

Delta R.T. 0.018 min

Lab File: BF141293.D

Acq: 29 Jan 2025 15:17

Tgt Ion:276 Resp: 329876
Ion Ratio Lower Upper
276 100
277 24.0 19.2 28.8
138 23.9 19.0 28.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141294.D
Acq On : 29 Jan 2025 15:45
Operator : RC/JU
Sample : SSTDICCC040
Misc :
ALS Vial : 6 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

Quant Time: Jan 29 16:29:58 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 16:24:35 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	136511	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	533326	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	282995	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	458392	20.000	ng	0.00
76) Chrysene-d12	13.968	240	260600	20.000	ng	0.00
86) Perylene-d12	15.439	264	279417	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	655671	74.279	ng	0.00
7) Phenol-d6	6.428	99	829746	73.753	ng	0.00
23) Nitrobenzene-d5	7.363	82	755539	74.958	ng	0.00
42) 2,4,6-Tribromophenol	10.627	330	195693	75.888	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	1339709	73.029	ng	0.00
79) Terphenyl-d14	12.916	244	1232977	72.802	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	2.487	88	146751	37.453	ng	100
3) Pyridine	3.216	79	360381	38.457	ng	100
4) n-Nitrosodimethylamine	3.169	42	205026	38.203	ng	100
6) Aniline	6.463	93	371145	39.471	ng	100
8) 2-Chlorophenol	6.581	128	354141	37.357	ng	100
9) Benzaldehyde	6.345	77	244365	37.402	ng	100
10) Phenol	6.439	94	448441	37.678	ng	100
11) bis(2-Chloroethyl)ether	6.534	93	336429	36.754	ng	100
12) 1,3-Dichlorobenzene	6.739	146	390276	37.328	ng	100
13) 1,4-Dichlorobenzene	6.816	146	390834	37.119	ng	100
14) 1,2-Dichlorobenzene	6.969	146	365173	37.114	ng	100
15) Benzyl Alcohol	6.939	79	295478	38.445	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.075	45	597590	37.578	ng	100
17) 2-Methylphenol	7.051	107	284578	37.077	ng	100
18) Hexachloroethane	7.310	117	144619	37.124	ng	100
19) n-Nitroso-di-n-propyla...	7.210	70	244379	36.524	ng	100
20) 3+4-Methylphenols	7.204	107	351248	37.222	ng	100
22) Acetophenone	7.210	105	465165	36.793	ng	100
24) Nitrobenzene	7.381	77	396149	37.893	ng	100
25) Isophorone	7.622	82	651994	37.429	ng	100
26) 2-Nitrophenol	7.698	139	188435	38.483	ng	100
27) 2,4-Dimethylphenol	7.733	122	239376	38.255	ng	100
28) bis(2-Chloroethoxy)met...	7.833	93	414781	37.367	ng	100
29) 2,4-Dichlorophenol	7.939	162	288763	37.768	ng	100
30) 1,2,4-Trichlorobenzene	8.022	180	323865	36.932	ng	100
31) Naphthalene	8.104	128	1041107	37.116	ng	100
32) Benzoic acid	7.845	122	235596	41.459	ng	100
33) 4-Chloroaniline	8.151	127	361001	38.313	ng	100
34) Hexachlorobutadiene	8.222	225	190772	37.169	ng	100
35) Caprolactam	8.516	113	94819	38.342	ng	100
36) 4-Chloro-3-methylphenol	8.633	107	305768	37.262	ng	100
37) 2-Methylnaphthalene	8.792	142	666038	37.286	ng	100
38) 1-Methylnaphthalene	8.892	142	646346	36.938	ng	100
40) 1,2,4,5-Tetrachloroben...	8.957	216	302471	37.591	ng	100
41) Hexachlorocyclopentadiene	8.945	237	97299	40.295	ng	100
43) 2,4,6-Trichlorophenol	9.069	196	205797	39.181	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
 Data File : BF141294.D
 Acq On : 29 Jan 2025 15:45
 Operator : RC/JU
 Sample : SSTDICCC040
 Misc :
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICCC040

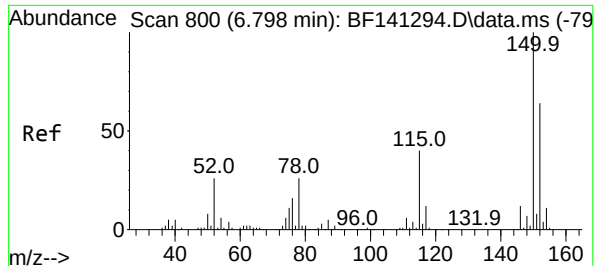
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 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 29 16:24:35 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	213401	37.346	ng	100
46) 1,1'-Biphenyl	9.257	154	823004	37.278	ng	100
47) 2-Chloronaphthalene	9.280	162	634814	37.020	ng	100
48) 2-Nitroaniline	9.380	65	205997	38.089	ng	100
49) Acenaphthylene	9.698	152	902715	37.483	ng	100
50) Dimethylphthalate	9.563	163	701107	36.945	ng	100
51) 2,6-Dinitrotoluene	9.622	165	167409	37.909	ng	100
52) Acenaphthene	9.869	154	638597	37.266	ng	100
53) 3-Nitroaniline	9.792	138	171409	39.240	ng	100
54) 2,4-Dinitrophenol	9.898	184	83282	40.011	ng	100
55) Dibenzofuran	10.045	168	859175	37.490	ng	100
56) 4-Nitrophenol	9.945	139	126536	40.349	ng	100
57) 2,4-Dinitrotoluene	10.027	165	218627	38.382	ng	100
58) Fluorene	10.386	166	660612	37.076	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.163	232	172174	38.138	ng	100
60) Diethylphthalate	10.263	149	693066	37.710	ng	100
61) 4-Chlorophenyl-phenyle...	10.380	204	321112	36.929	ng	100
62) 4-Nitroaniline	10.404	138	164154	39.120	ng	100
63) Azobenzene	10.539	77	693050	37.621	ng	100
65) 4,6-Dinitro-2-methylph...	10.433	198	114735	41.914	ng	100
66) n-Nitrosodiphenylamine	10.498	169	573712	38.602	ng	100
67) 4-Bromophenyl-phenylether	10.869	248	198895	38.815	ng	100
68) Hexachlorobenzene	10.933	284	209735	38.586	ng	100
69) Atrazine	11.027	200	195062	39.131	ng	100
70) Pentachlorophenol	11.127	266	131295	41.196	ng	100
71) Phenanthrene	11.351	178	940021	38.175	ng	100
72) Anthracene	11.404	178	925244	38.521	ng	100
73) Carbazole	11.557	167	824095	38.735	ng	100
74) Di-n-butylphthalate	11.892	149	995172	38.805	ng	100
75) Fluoranthene	12.539	202	928946	38.650	ng	100
77) Benzidine	12.663	184	380623	48.034	ng	100
78) Pyrene	12.768	202	914205	36.333	ng	100
80) Butylbenzylphthalate	13.392	149	326158	37.532	ng	100
81) Benzo(a)anthracene	13.957	228	661997	37.062	ng	100
82) 3,3'-Dichlorobenzidine	13.921	252	217856	38.953	ng	100
83) Chrysene	13.998	228	591939	35.738	ng	100
84) Bis(2-ethylhexyl)phtha...	13.957	149	409365	37.540	ng	100
85) Di-n-octyl phthalate	14.586	149	640977	37.578	ng	100
87) Indeno(1,2,3-cd)pyrene	16.886	276	702692	38.503	ng	100
88) Benzo(b)fluoranthene	15.015	252	625758	36.061	ng	100
89) Benzo(k)fluoranthene	15.045	252	605401	38.959	ng	100
90) Benzo(a)pyrene	15.374	252	564975	38.096	ng	100
91) Dibenzo(a,h)anthracene	16.909	278	567762	38.812	ng	100
92) Benzo(g,h,i)perylene	17.327	276	582768	37.870	ng	100

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

Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

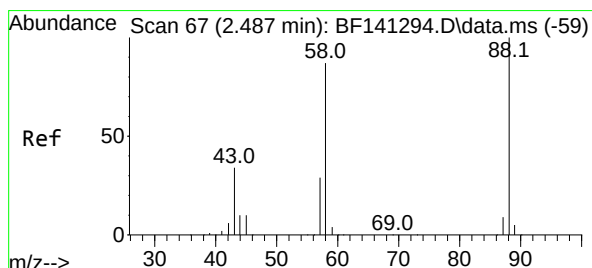
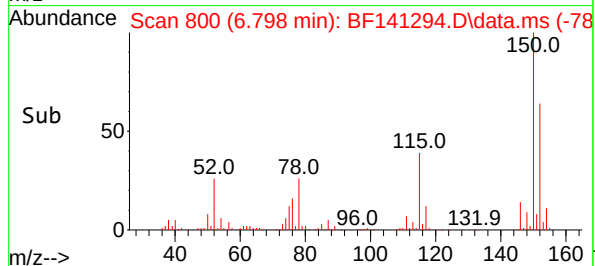
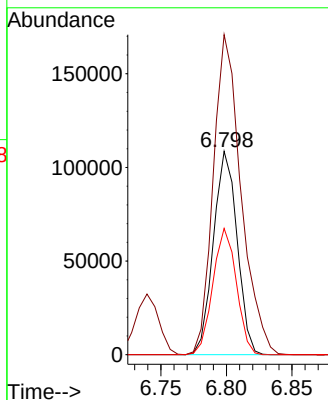
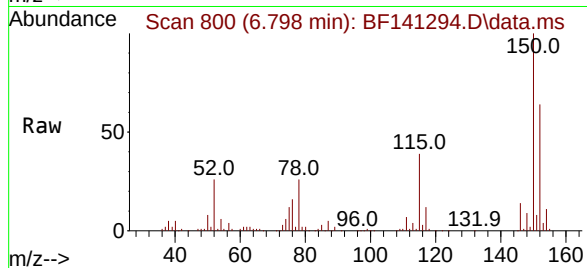
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- 2
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- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17



#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

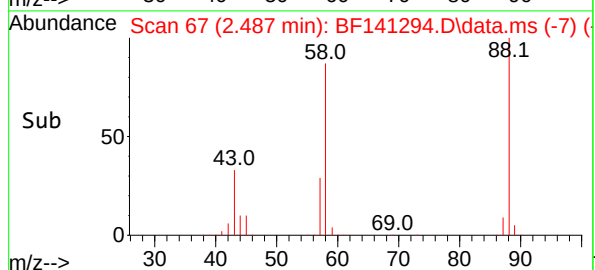
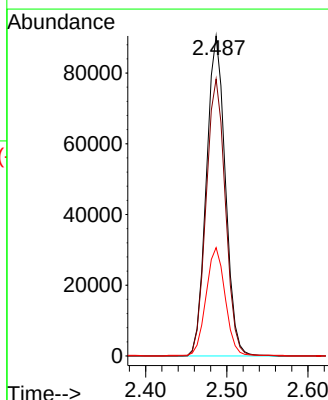
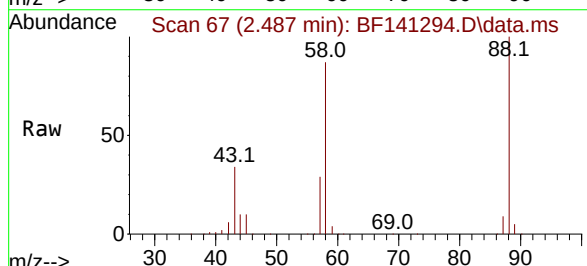
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

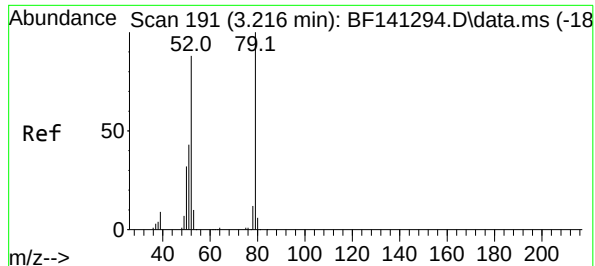
Tgt Ion:152 Resp: 136511
Ion Ratio Lower Upper
152 100
150 157.4 125.9 188.9
115 62.1 49.7 74.5



#2
1,4-Dioxane
Concen: 37.453 ng
RT: 2.487 min Scan# 67
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion: 88 Resp: 146751
Ion Ratio Lower Upper
88 100
58 87.8 70.2 105.4
43 34.5 27.6 41.4





#3

Pyridine

Concen: 38.457 ng

RT: 3.216 min Scan# 191

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

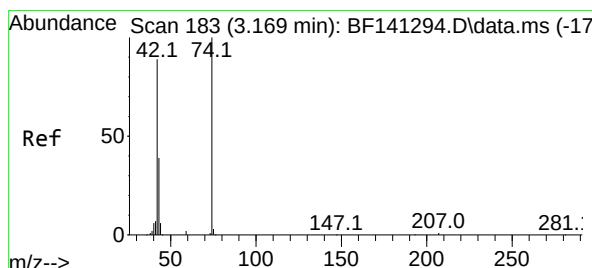
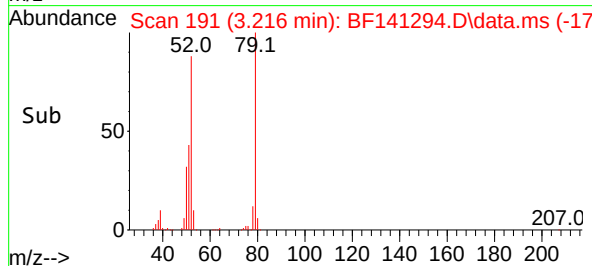
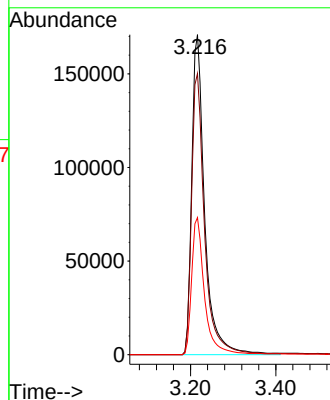
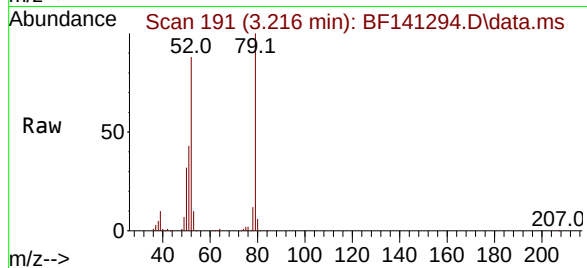
Tgt Ion: 79 Resp: 360381

Ion Ratio Lower Upper

79 100

52 87.9 70.3 105.5

51 42.9 34.3 51.5



#4

n-Nitrosodimethylamine

Concen: 38.203 ng

RT: 3.169 min Scan# 183

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

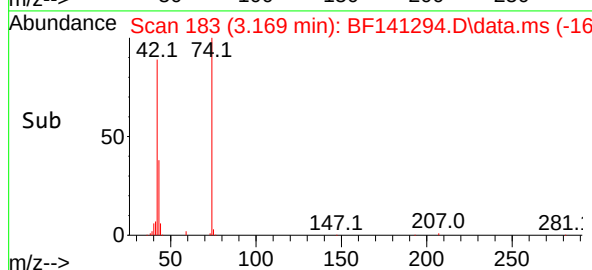
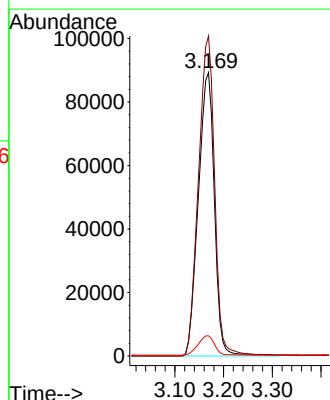
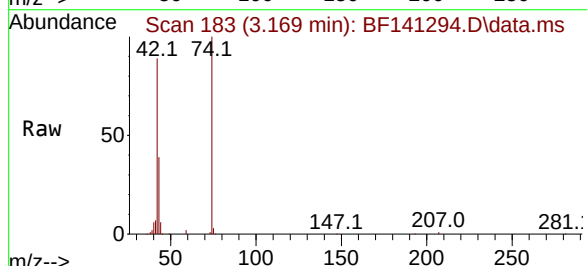
Tgt Ion: 42 Resp: 205026

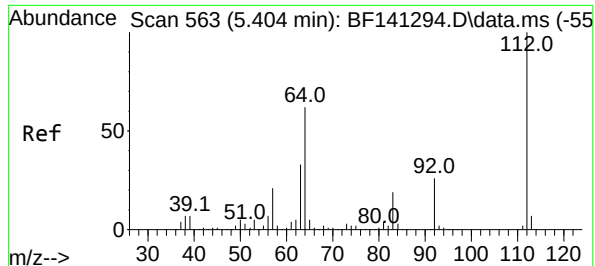
Ion Ratio Lower Upper

42 100

74 112.9 90.3 135.5

44 7.1 5.7 8.5

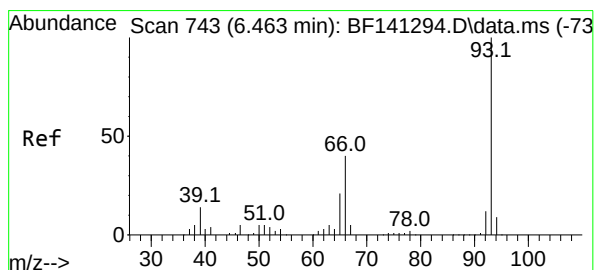
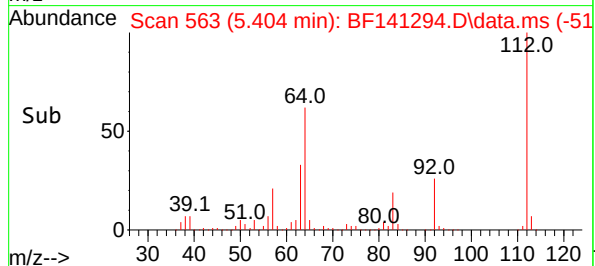
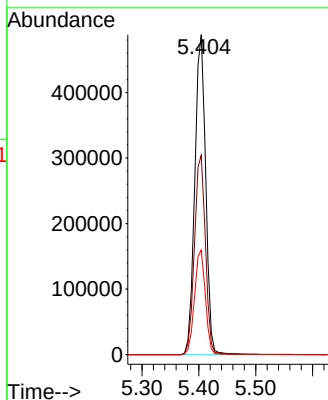
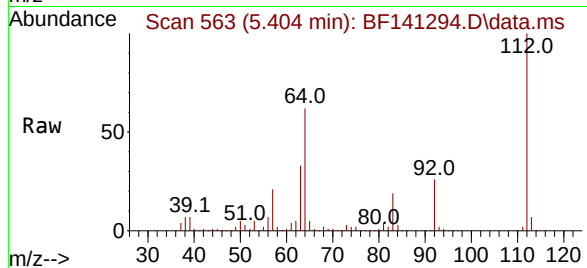




#5
2-Fluorophenol
Concen: 74.279 ng
RT: 5.404 min Scan# 501
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

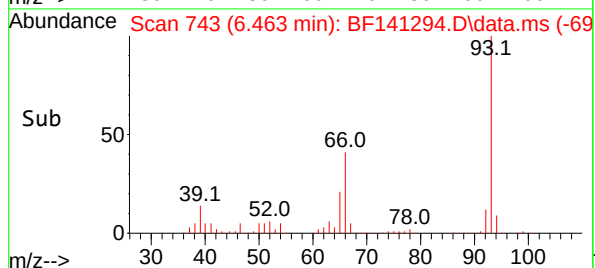
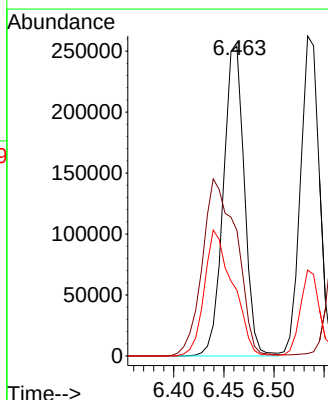
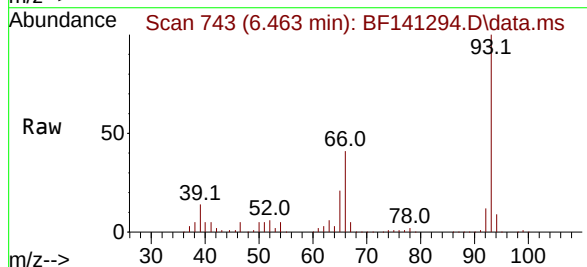
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

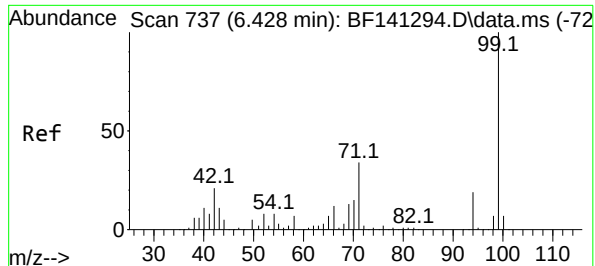
Tgt Ion:112 Resp: 655671
Ion Ratio Lower Upper
112 100
64 62.3 49.8 74.8
63 32.6 26.1 39.1



#6
Aniline
Concen: 39.471 ng
RT: 6.463 min Scan# 743
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion: 93 Resp: 371145
Ion Ratio Lower Upper
93 100
66 40.6 32.5 48.7
65 21.3 17.0 25.6

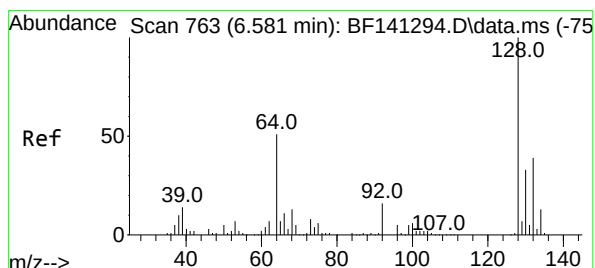
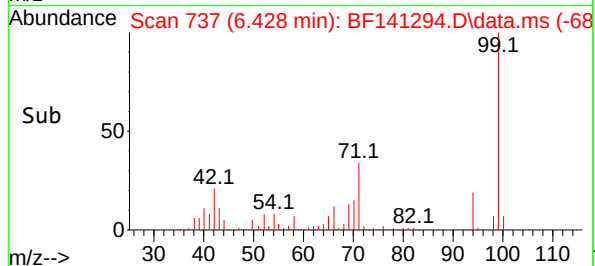
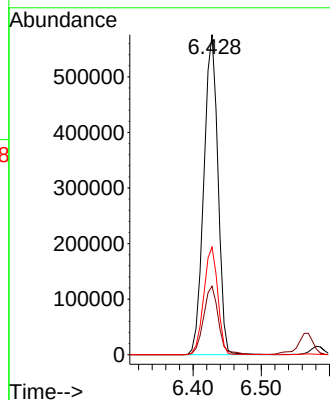
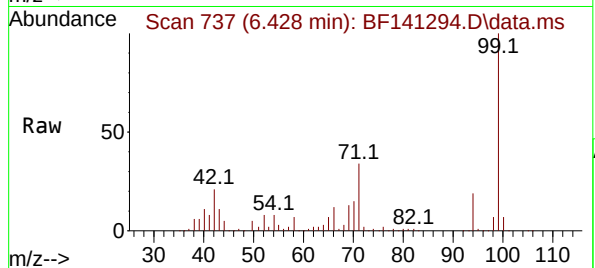




#7
Phenol-d6
Concen: 73.753 ng
RT: 6.428 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

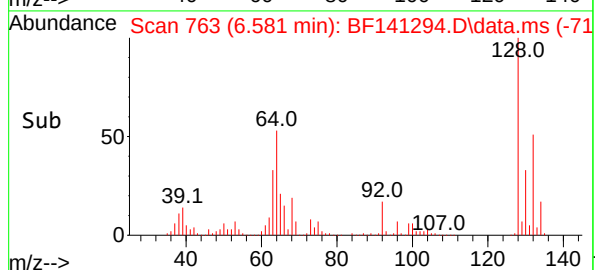
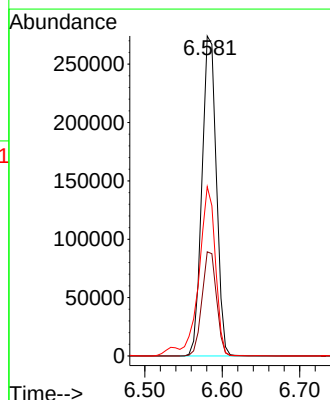
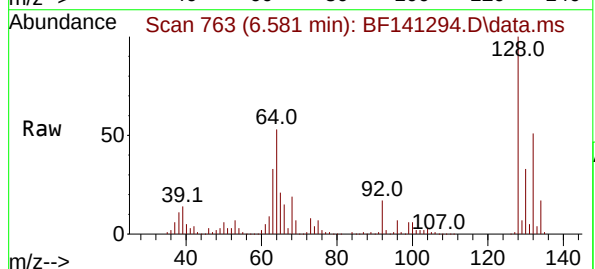
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

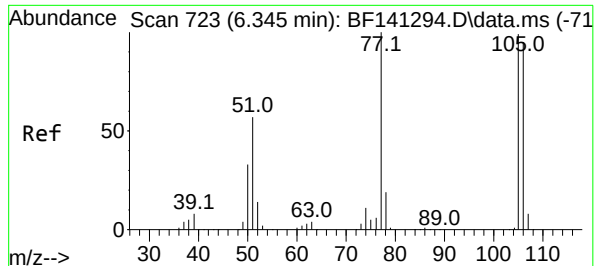
Tgt Ion: 99 Resp: 829746
Ion Ratio Lower Upper
99 100
42 21.4 17.1 25.7
71 33.6 26.9 40.3



#8
2-Chlorophenol
Concen: 37.357 ng
RT: 6.581 min Scan# 763
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion: 128 Resp: 354141
Ion Ratio Lower Upper
128 100
130 32.5 12.5 52.5
64 52.9 32.9 72.9





#9

Benzaldehyde

Concen: 37.402 ng

RT: 6.345 min Scan# 71

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

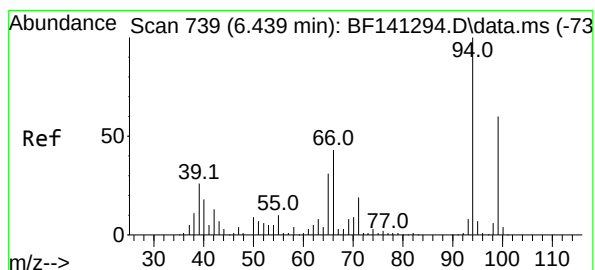
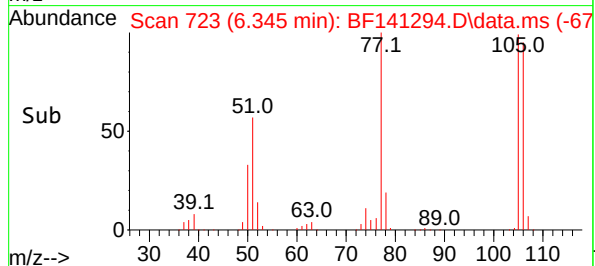
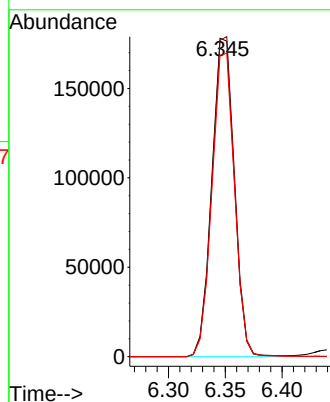
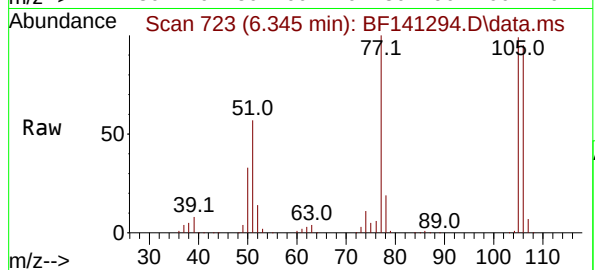
Tgt Ion: 77 Resp: 244365

Ion Ratio Lower Upper

77 100

105 99.4 79.4 119.4

106 94.6 74.6 114.6



#10

Phenol

Concen: 37.678 ng

RT: 6.439 min Scan# 739

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

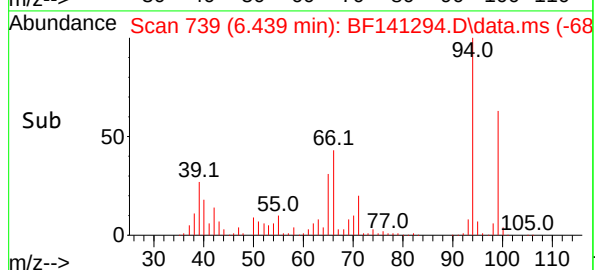
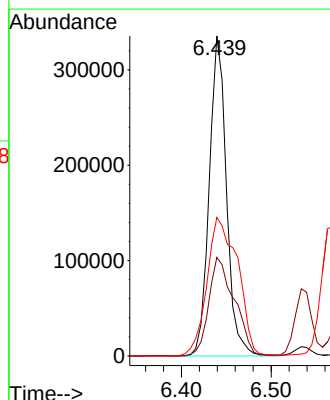
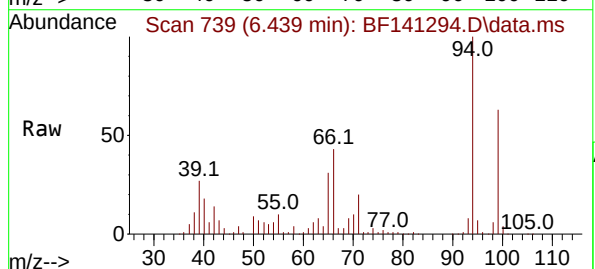
Tgt Ion: 94 Resp: 448441

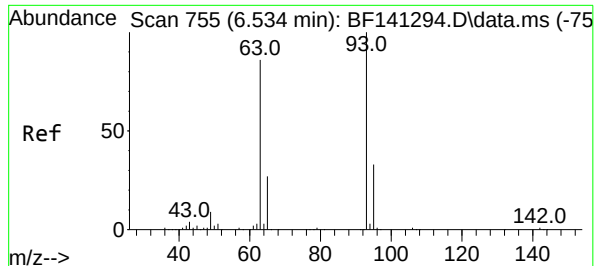
Ion Ratio Lower Upper

94 100

65 30.8 10.8 50.8

66 43.3 23.3 63.3





#11

bis(2-Chloroethyl)ether

Concen: 36.754 ng

RT: 6.534 min Scan# 755

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

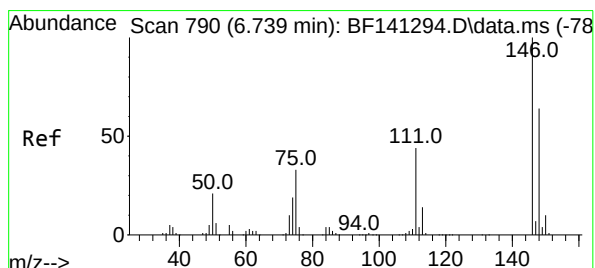
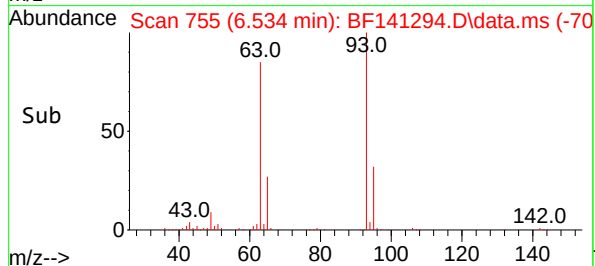
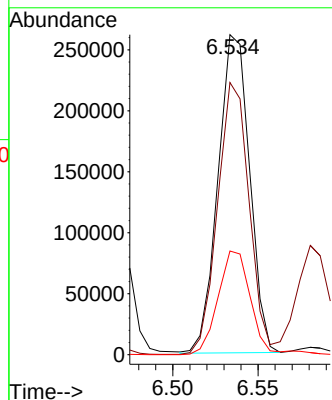
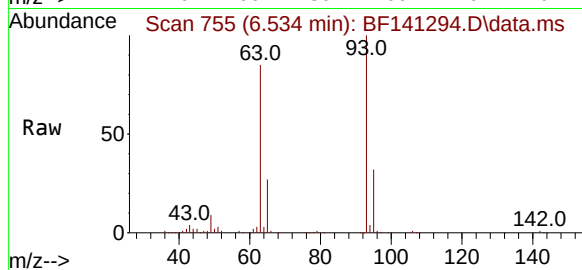
Tgt Ion: 93 Resp: 336429

Ion Ratio Lower Upper

93 100

63 85.0 65.0 105.0

95 32.4 12.4 52.4



#12

1,3-Dichlorobenzene

Concen: 37.328 ng

RT: 6.739 min Scan# 790

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

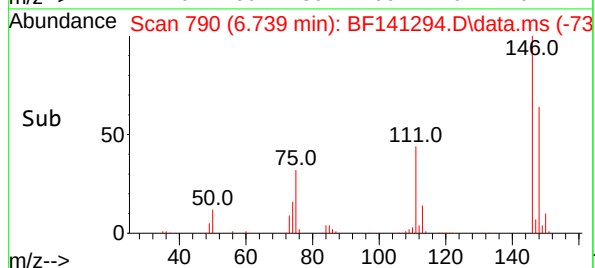
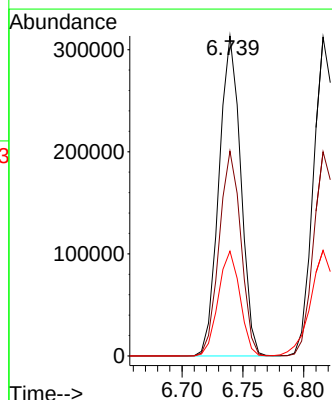
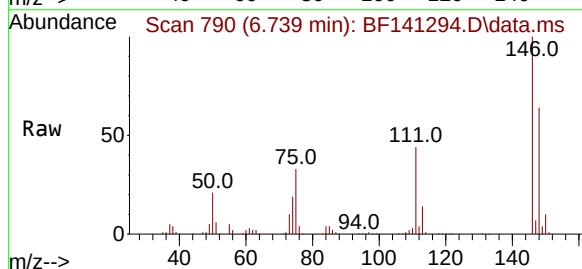
Tgt Ion: 146 Resp: 390276

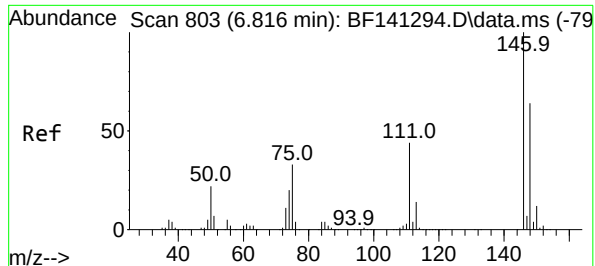
Ion Ratio Lower Upper

146 100

148 64.0 51.2 76.8

75 32.8 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 37.119 ng

RT: 6.816 min Scan# 803

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

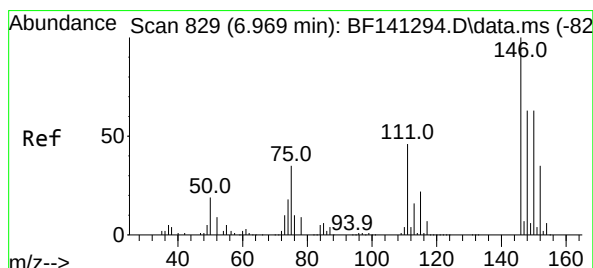
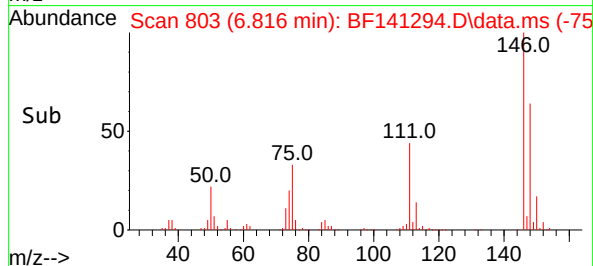
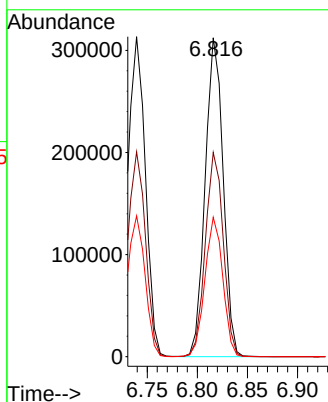
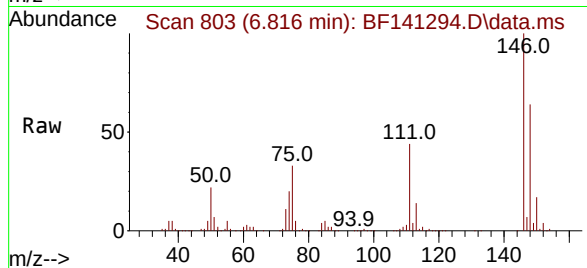
Tgt Ion:146 Resp: 390834

Ion Ratio Lower Upper

146 100

148 64.0 51.2 76.8

111 43.7 35.0 52.4



#14

1,2-Dichlorobenzene

Concen: 37.114 ng

RT: 6.969 min Scan# 829

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

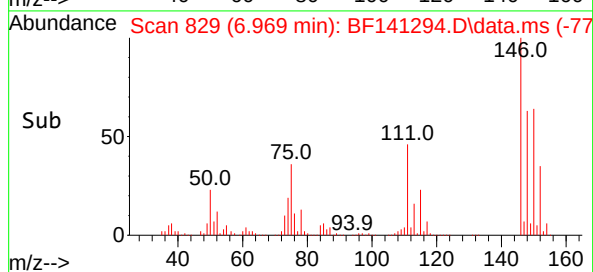
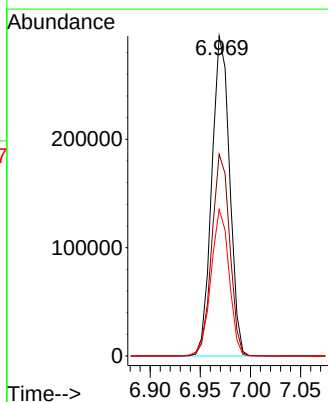
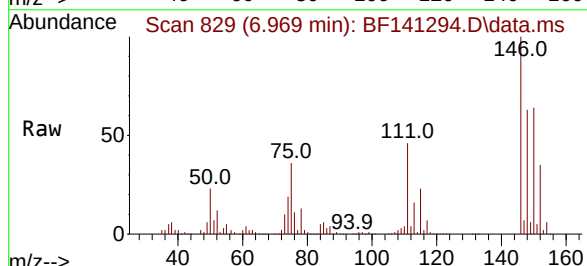
Tgt Ion:146 Resp: 365173

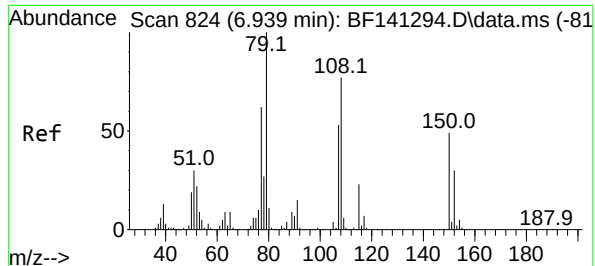
Ion Ratio Lower Upper

146 100

148 63.1 50.5 75.7

111 45.8 36.6 55.0





#15

Benzyl Alcohol

Concen: 38.445 ng

RT: 6.939 min Scan# 81

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

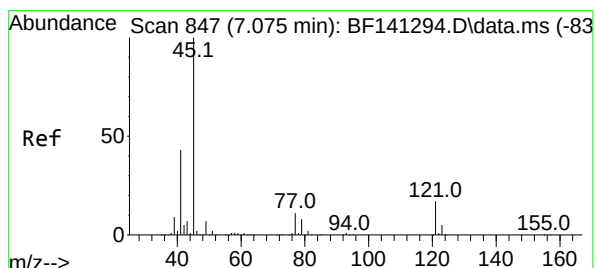
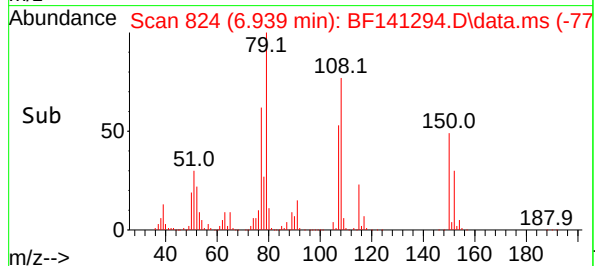
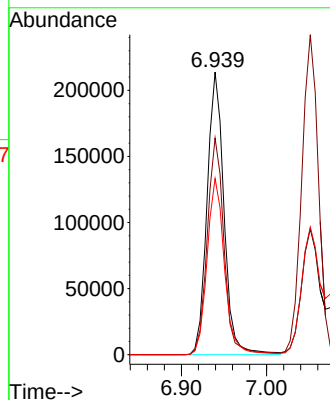
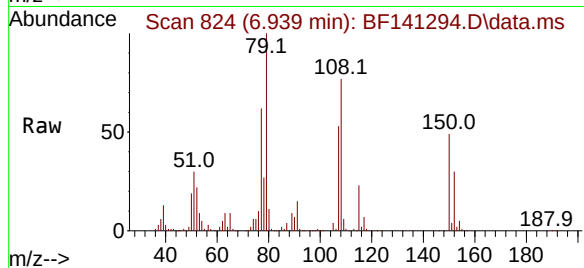
Tgt Ion: 79 Resp: 295478

Ion Ratio Lower Upper

79 100

108 76.7 61.4 92.0

77 62.4 49.9 74.9



#16

2,2'-oxybis(1-Chloropropane)

Concen: 37.578 ng

RT: 7.075 min Scan# 847

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

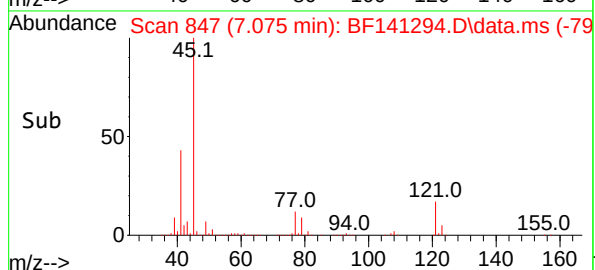
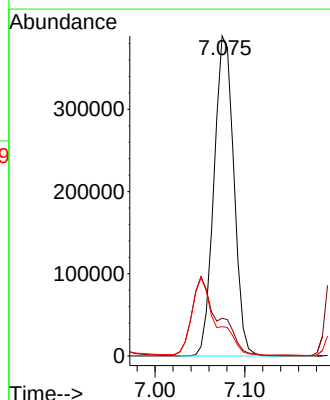
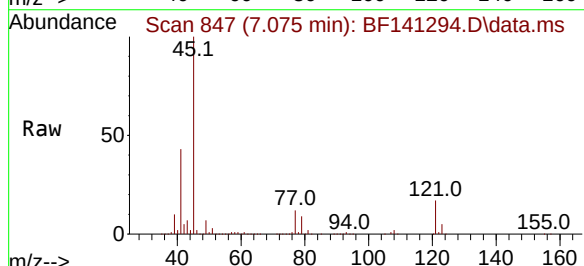
Tgt Ion: 45 Resp: 597590

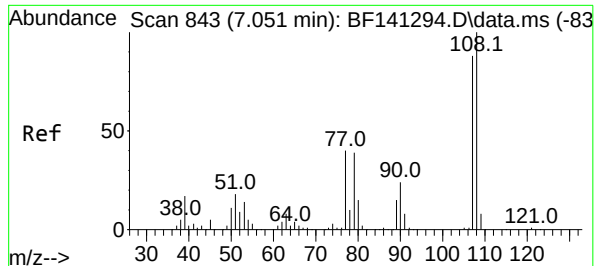
Ion Ratio Lower Upper

45 100

77 11.8 0.0 31.8

79 9.1 0.0 29.1

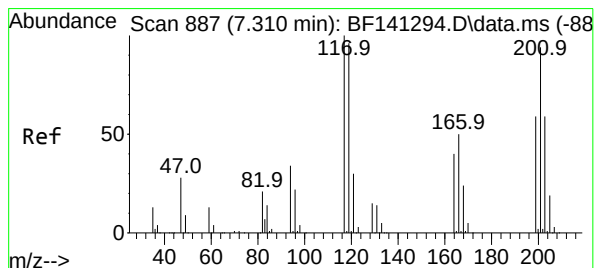
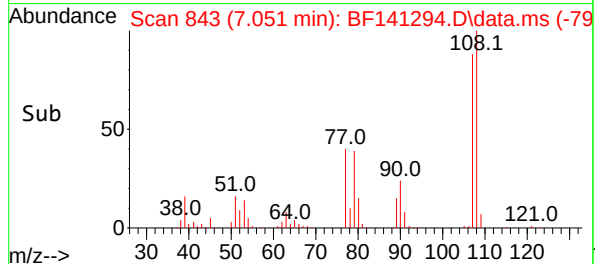
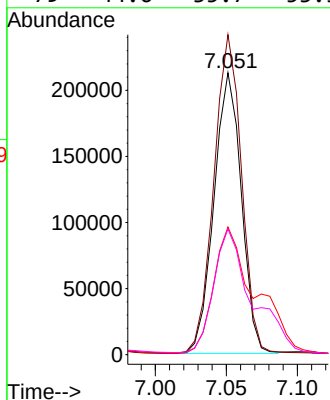
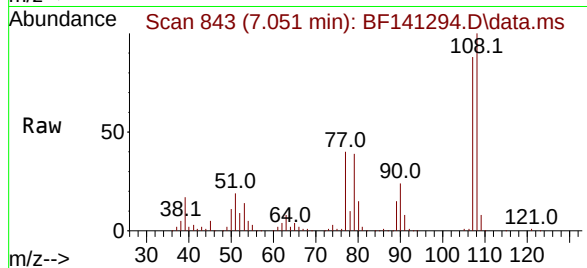




#17
2-Methylphenol
Concen: 37.077 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

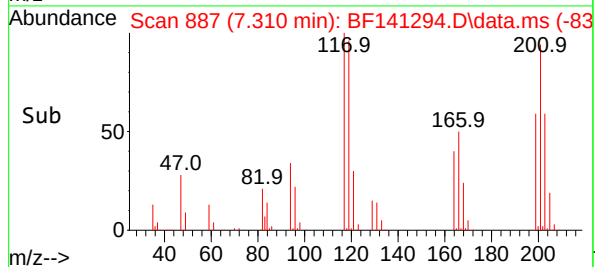
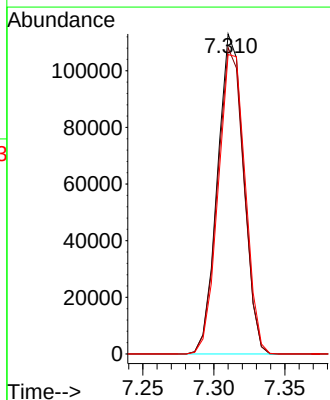
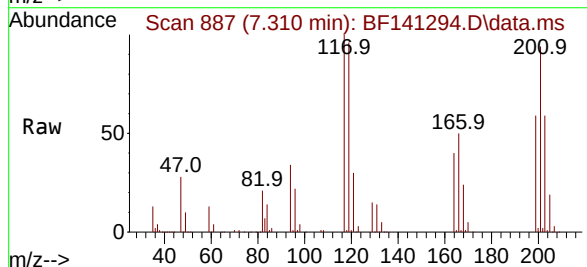
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

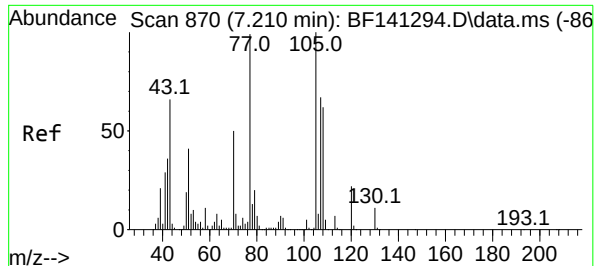
Tgt Ion:	107	Resp:	284578
Ion	Ratio	Lower	Upper
107	100		
108	113.5	90.8	136.2
77	45.3	36.2	54.4
79	44.6	35.7	53.5



#18
Hexachloroethane
Concen: 37.124 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:	117	Resp:	144619
Ion	Ratio	Lower	Upper
117	100		
119	95.7	76.6	114.8
201	93.5	74.8	112.2





#19

n-Nitroso-di-n-propylamine

Concen: 36.524 ng

RT: 7.210 min Scan# 870

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

Tgt Ion: 70 Resp: 244379

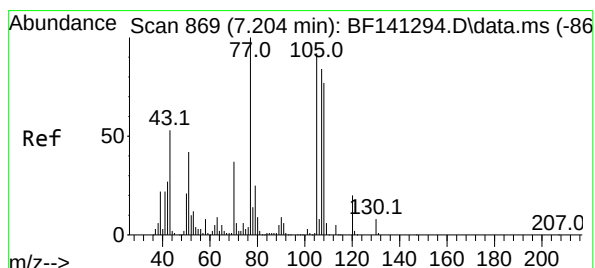
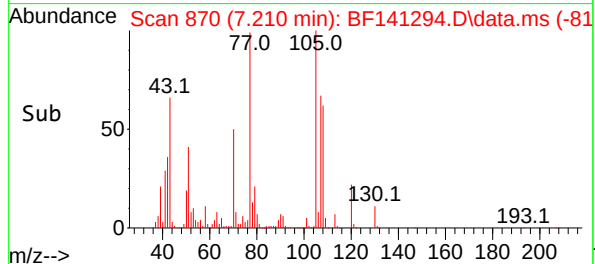
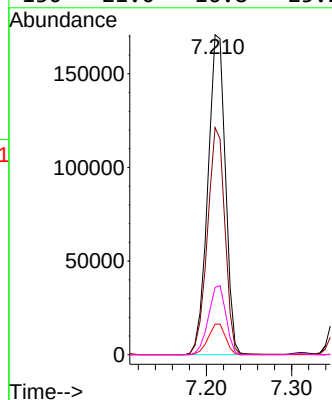
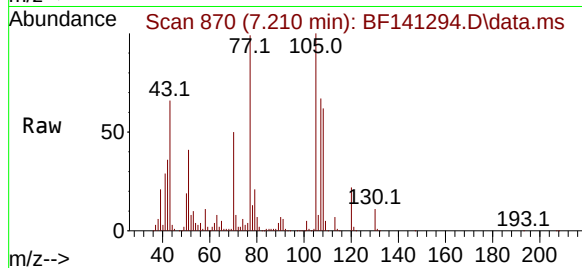
Ion Ratio Lower Upper

70 100

42 71.0 56.8 85.2

101 9.6 7.7 11.5

130 21.0 16.8 25.2



#20

3+4-Methylphenols

Concen: 37.222 ng

RT: 7.204 min Scan# 869

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Tgt Ion: 107 Resp: 351248

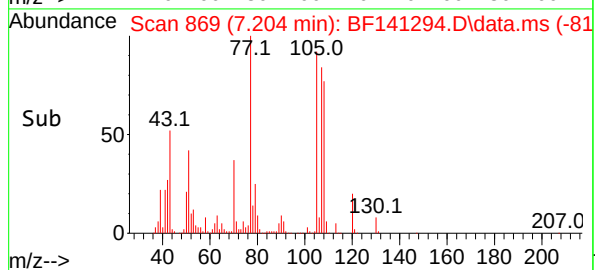
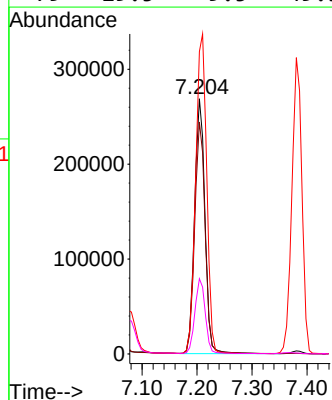
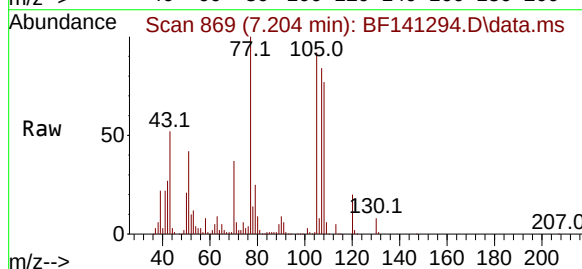
Ion Ratio Lower Upper

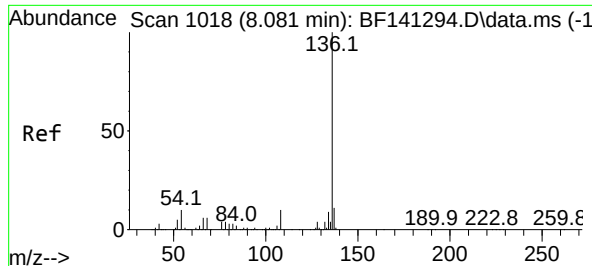
107 100

108 90.9 70.9 110.9

77 118.5 98.5 138.5

79 29.5 9.5 49.5





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.081 min Scan# 1018

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

Tgt Ion:136 Resp: 533326

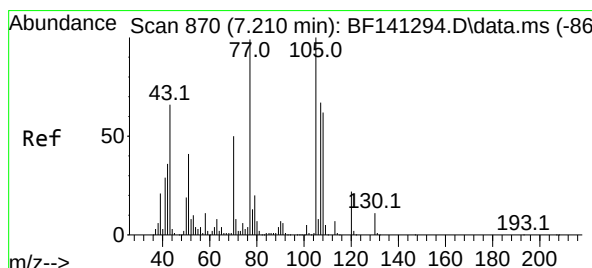
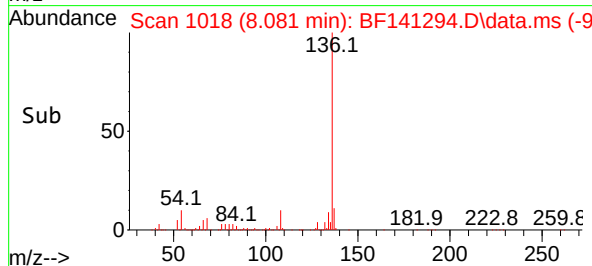
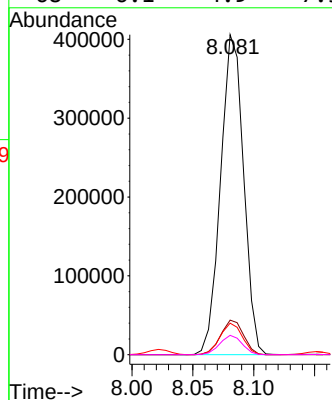
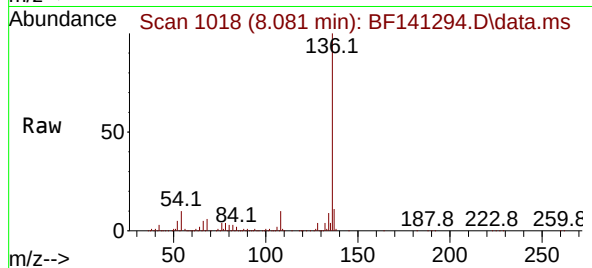
Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

54 9.8 7.8 11.8

68 6.1 4.9 7.3



#22

Acetophenone

Concen: 36.793 ng

RT: 7.210 min Scan# 870

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Tgt Ion:105 Resp: 465165

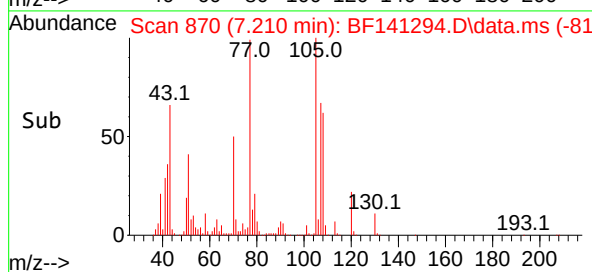
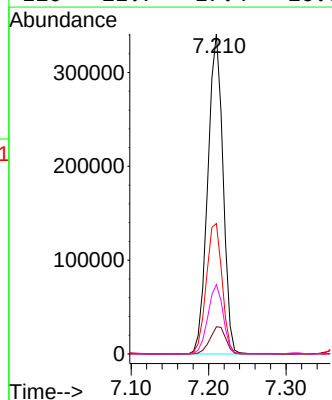
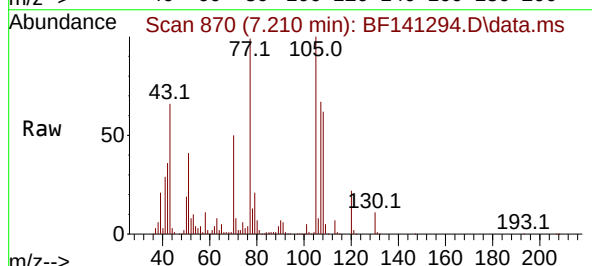
Ion Ratio Lower Upper

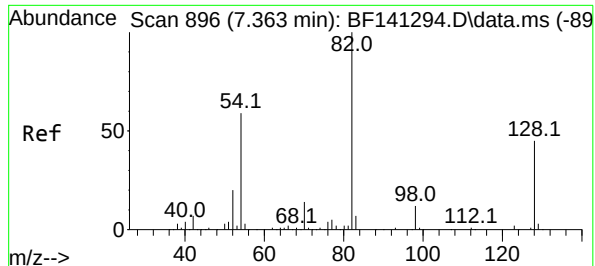
105 100

71 8.5 6.8 10.2

51 40.8 32.6 49.0

120 21.7 17.4 26.0





#23

Nitrobenzene-d5

Concen: 74.958 ng

RT: 7.363 min Scan# 896

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

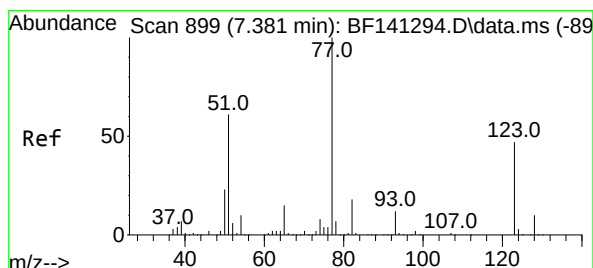
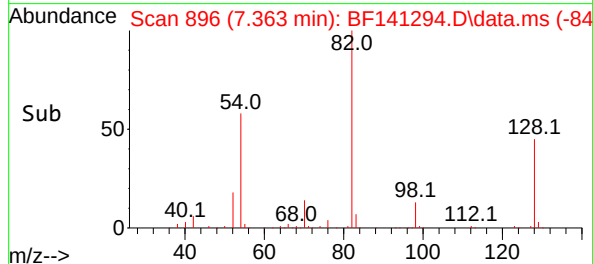
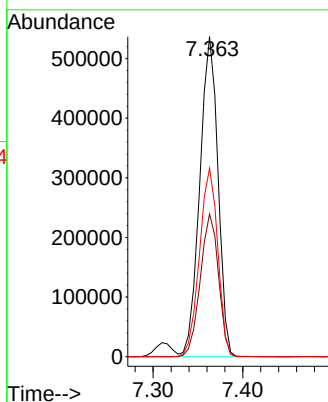
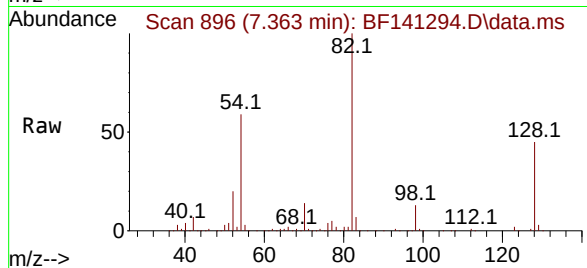
Tgt Ion: 82 Resp: 755539

Ion Ratio Lower Upper

82 100

128 44.6 35.7 53.5

54 58.9 47.1 70.7



#24

Nitrobenzene

Concen: 37.893 ng

RT: 7.381 min Scan# 899

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

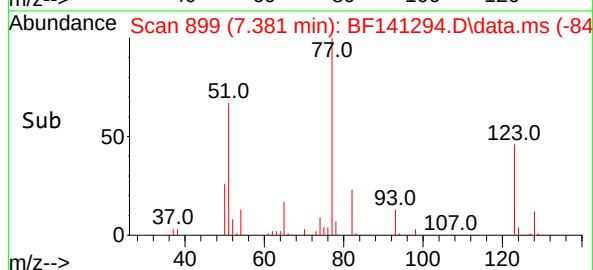
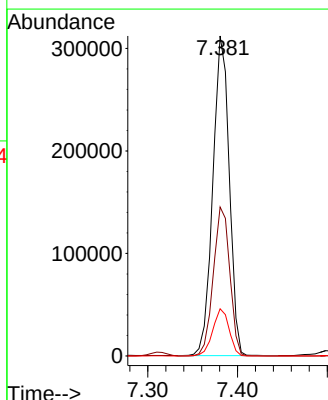
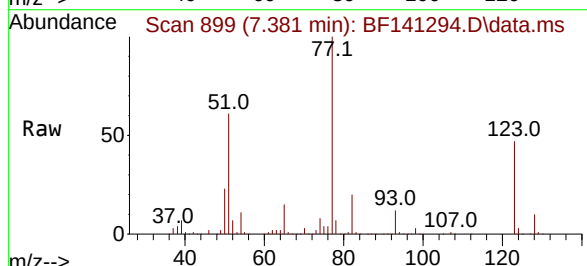
Tgt Ion: 77 Resp: 396149

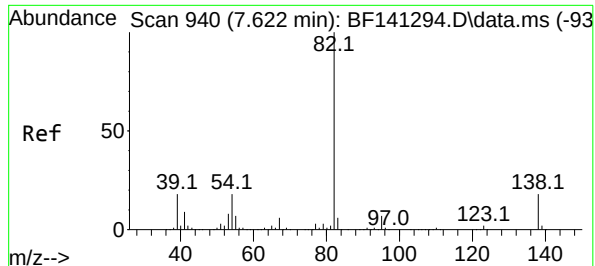
Ion Ratio Lower Upper

77 100

123 46.6 37.3 55.9

65 14.7 11.8 17.6





#25

Isophorone

Concen: 37.429 ng

RT: 7.622 min Scan# 940

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

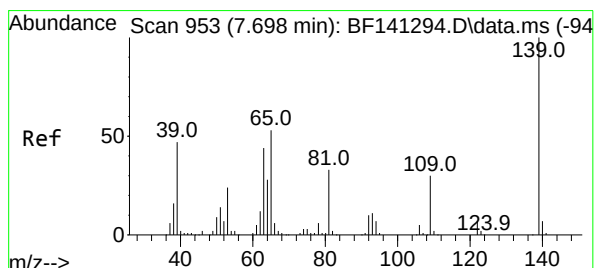
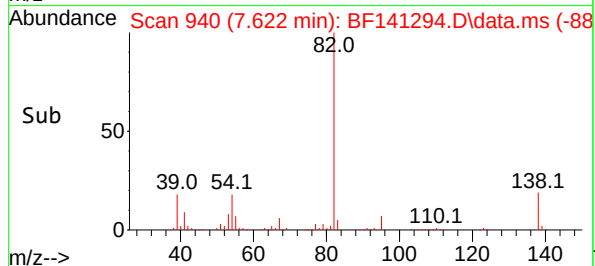
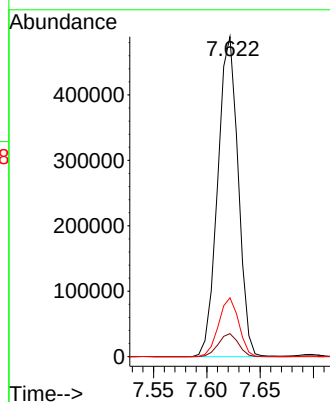
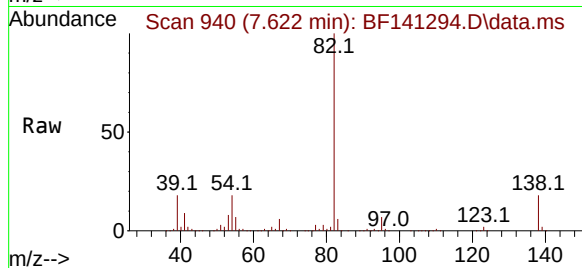
Tgt Ion: 82 Resp: 651994

Ion Ratio Lower Upper

82 100

95 7.2 5.8 8.6

138 18.4 14.7 22.1



#26

2-Nitrophenol

Concen: 38.483 ng

RT: 7.698 min Scan# 953

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

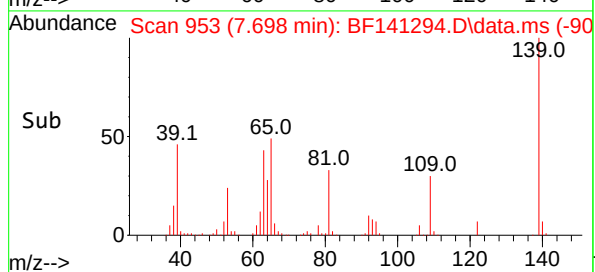
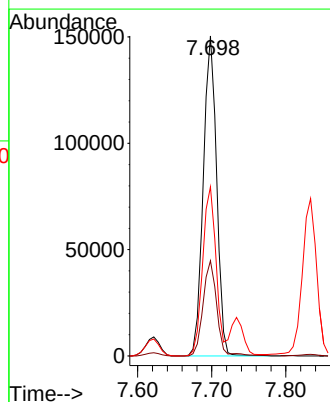
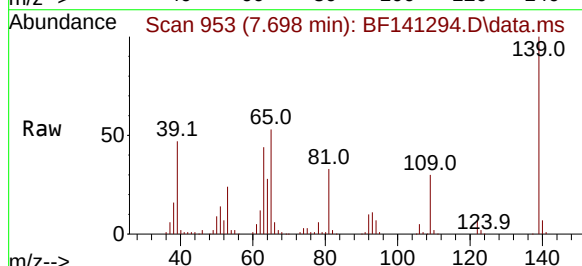
Tgt Ion: 139 Resp: 188435

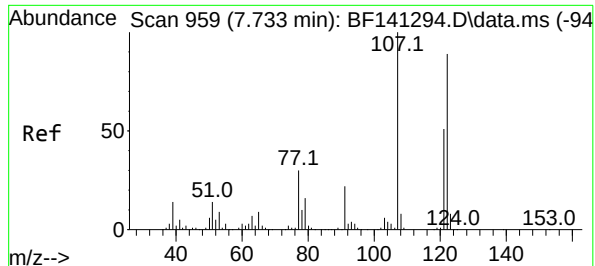
Ion Ratio Lower Upper

139 100

109 29.7 23.8 35.6

65 52.8 42.2 63.4





#27

2,4-Dimethylphenol

Concen: 38.255 ng

RT: 7.733 min Scan# 91

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

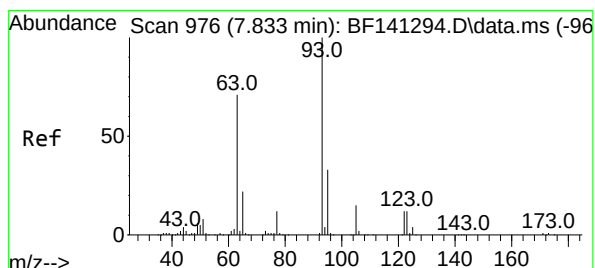
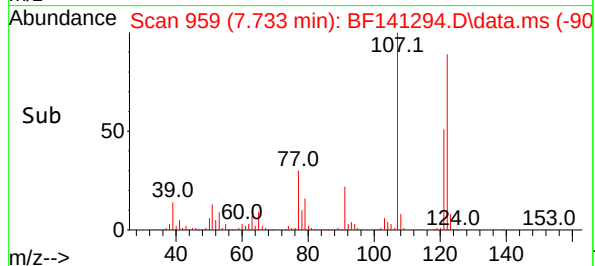
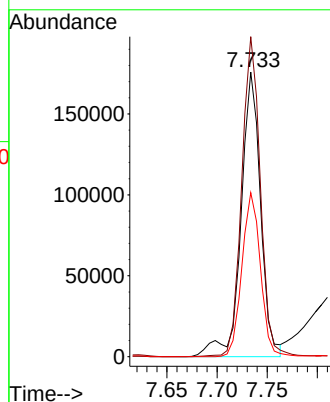
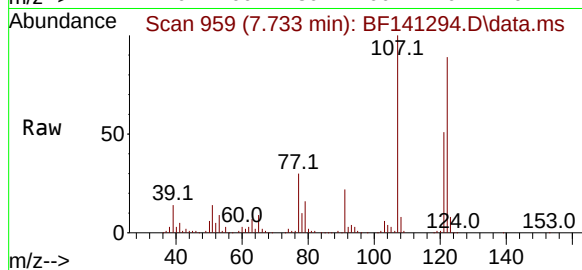
Tgt Ion:122 Resp: 239376

Ion Ratio Lower Upper

122 100

107 112.4 89.9 134.9

121 57.6 46.1 69.1



#28

bis(2-Chloroethoxy)methane

Concen: 37.367 ng

RT: 7.833 min Scan# 976

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

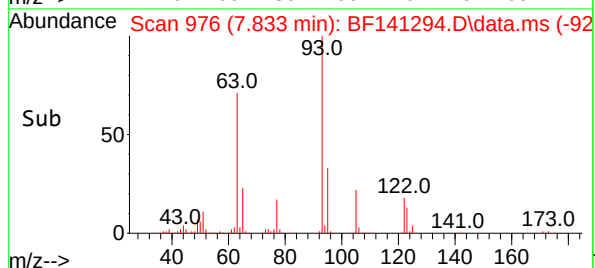
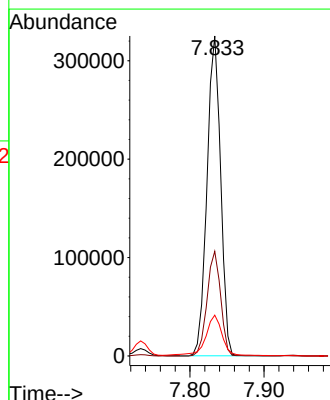
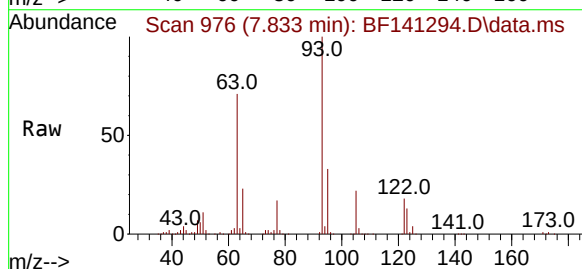
Tgt Ion: 93 Resp: 414781

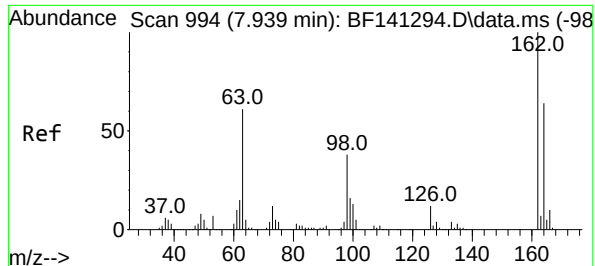
Ion Ratio Lower Upper

93 100

95 32.7 26.2 39.2

123 12.8 10.2 15.4





#29

2,4-Dichlorophenol

Concen: 37.768 ng

RT: 7.939 min Scan# 994

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

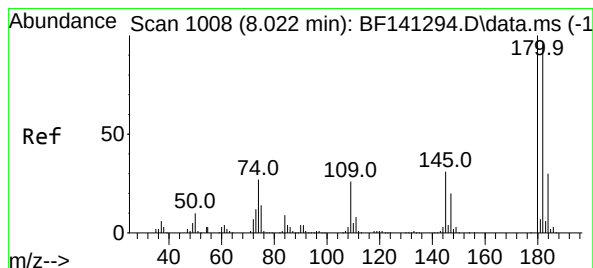
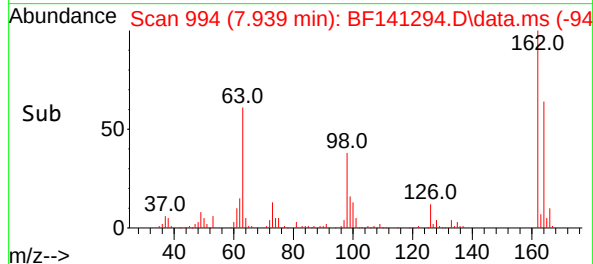
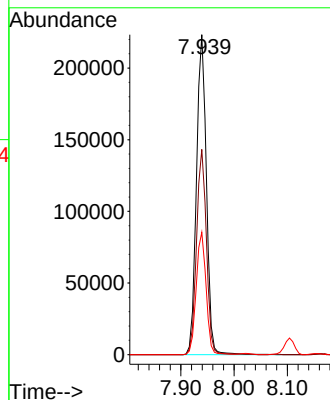
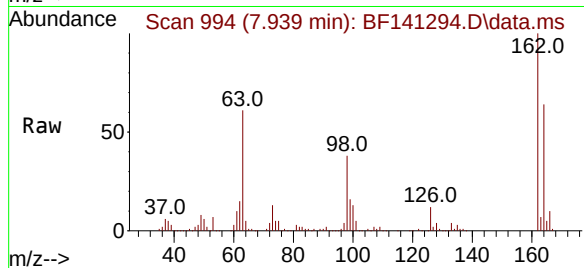
Tgt Ion:162 Resp: 288763

Ion Ratio Lower Upper

162 100

164 64.2 44.2 84.2

98 38.2 18.2 58.2



#30

1,2,4-Trichlorobenzene

Concen: 36.932 ng

RT: 8.022 min Scan# 1008

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

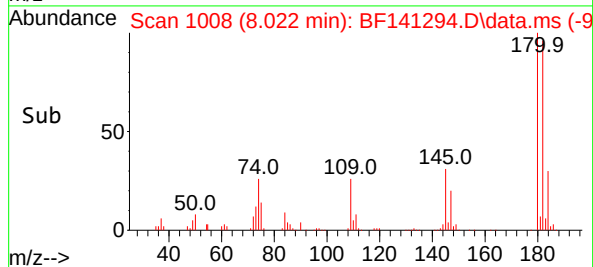
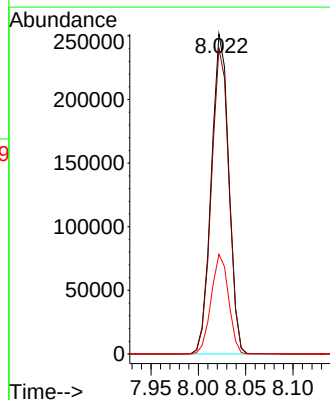
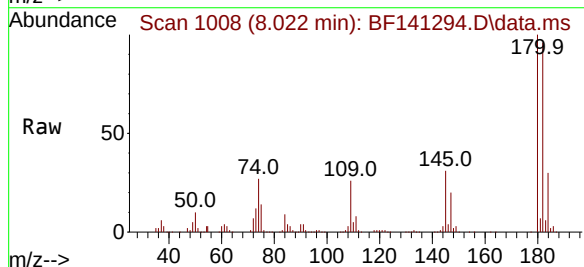
Tgt Ion:180 Resp: 323865

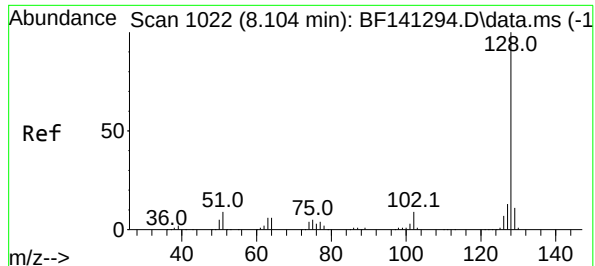
Ion Ratio Lower Upper

180 100

182 95.5 76.4 114.6

145 31.1 24.9 37.3

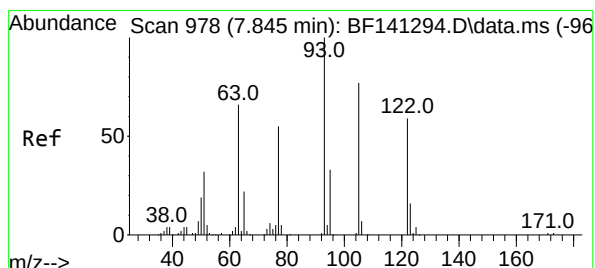
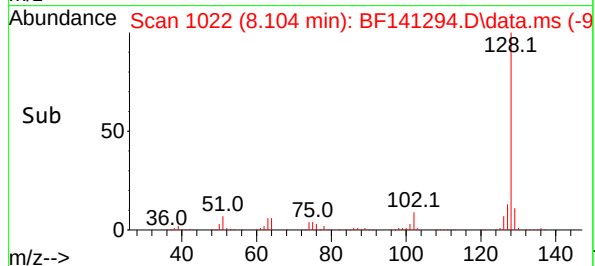
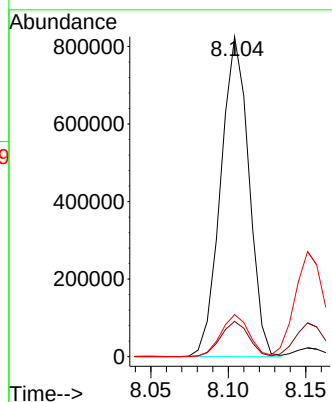
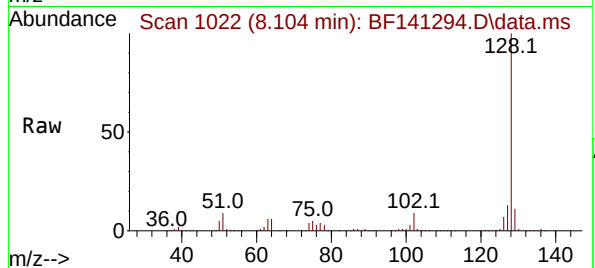




#31
Naphthalene
Concen: 37.116 ng
RT: 8.104 min Scan# 1022
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

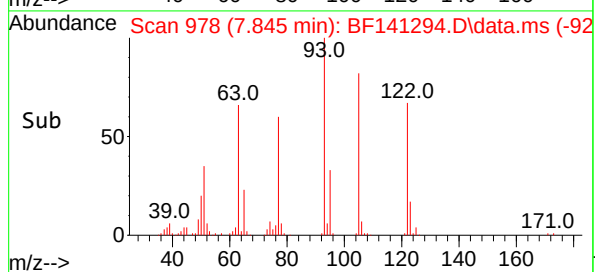
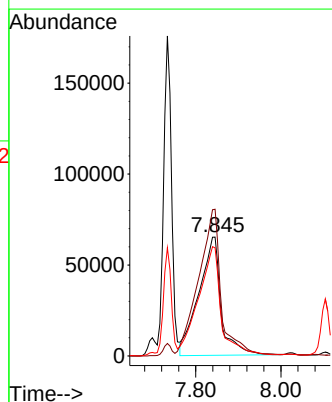
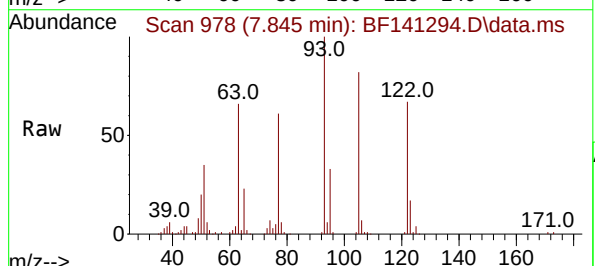
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

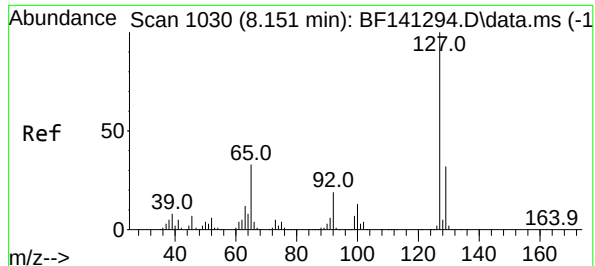
Tgt Ion:128 Resp: 1041107
Ion Ratio Lower Upper
128 100
129 11.1 8.9 13.3
127 13.2 10.6 15.8



#32
Benzoic acid
Concen: 41.459 ng
RT: 7.845 min Scan# 978
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:122 Resp: 235596
Ion Ratio Lower Upper
122 100
105 123.4 103.4 143.4
77 90.9 70.9 110.9





#33

4-Chloroaniline

Concen: 38.313 ng

RT: 8.151 min Scan# 1030

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

Tgt Ion:127 Resp: 361001

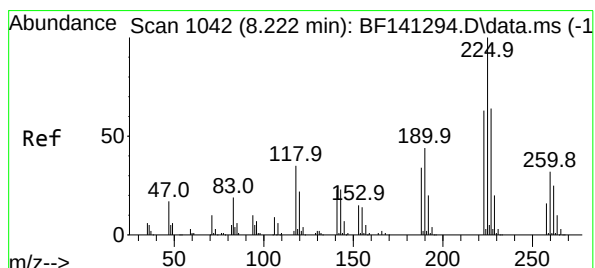
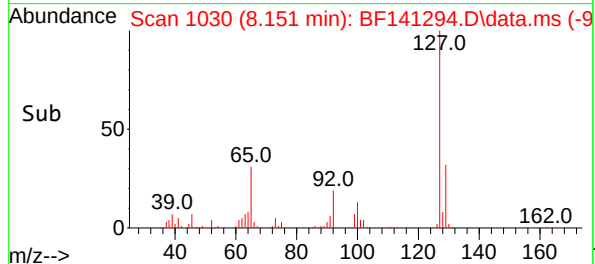
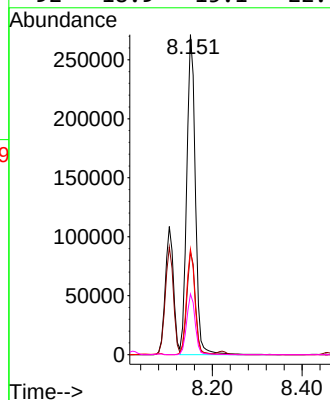
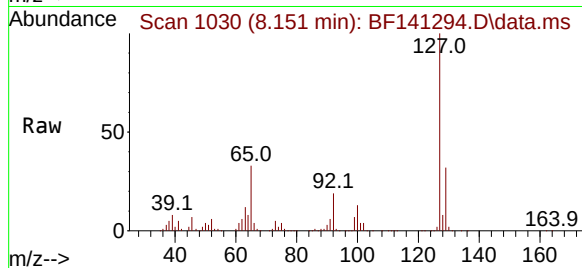
Ion Ratio Lower Upper

127 100

129 32.1 25.7 38.5

65 33.0 26.4 39.6

92 18.9 15.1 22.7



#34

Hexachlorobutadiene

Concen: 37.169 ng

RT: 8.222 min Scan# 1042

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

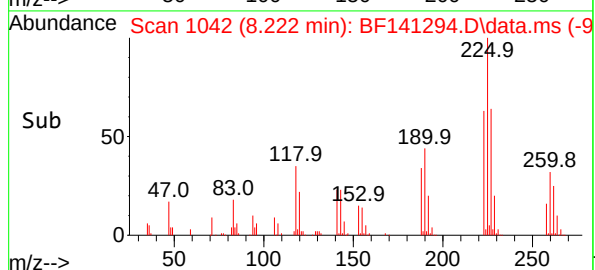
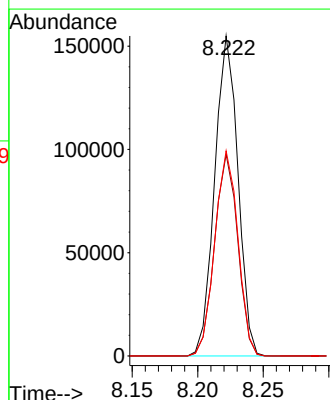
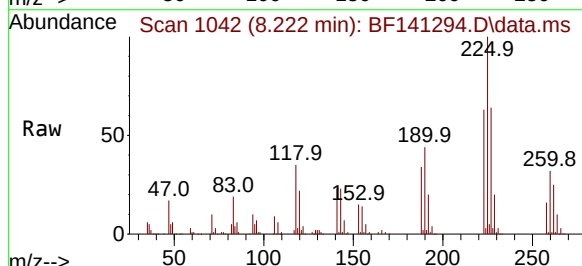
Tgt Ion:225 Resp: 190772

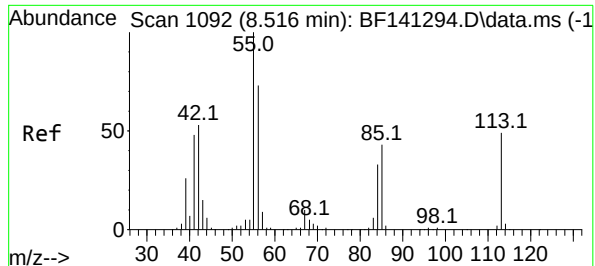
Ion Ratio Lower Upper

225 100

223 63.0 50.4 75.6

227 64.1 51.3 76.9





#35

Caprolactam

Concen: 38.342 ng

RT: 8.516 min Scan# 1092

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

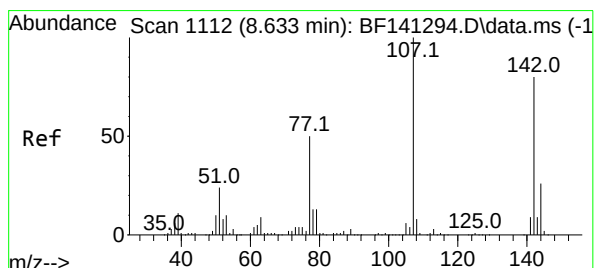
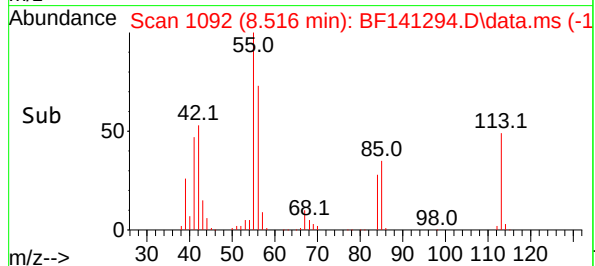
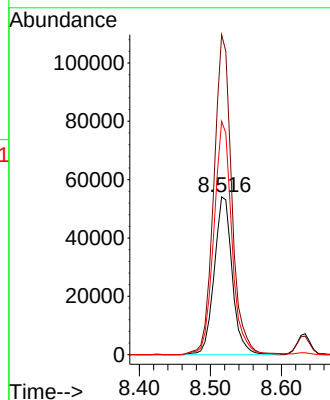
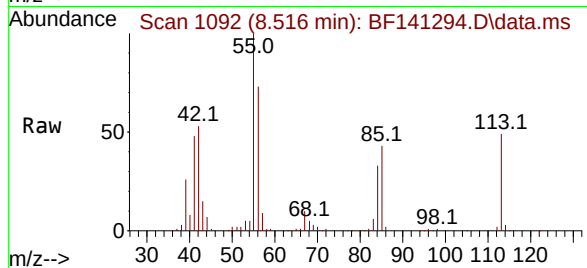
Tgt Ion:113 Resp: 94819

Ion Ratio Lower Upper

113 100

55 202.9 182.9 222.9

56 147.9 127.9 167.9



#36

4-Chloro-3-methylphenol

Concen: 37.262 ng

RT: 8.633 min Scan# 1112

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

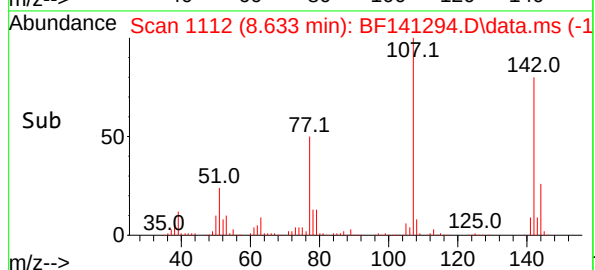
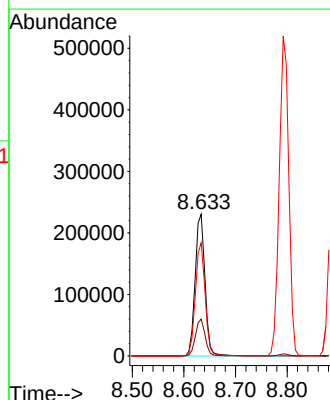
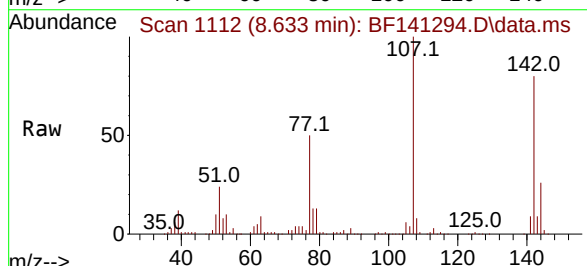
Tgt Ion:107 Resp: 305768

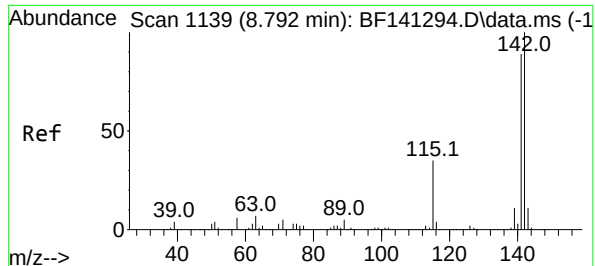
Ion Ratio Lower Upper

107 100

144 25.9 20.7 31.1

142 79.8 63.8 95.8





#37

2-Methylnaphthalene

Concen: 37.286 ng

RT: 8.792 min Scan# 1139

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

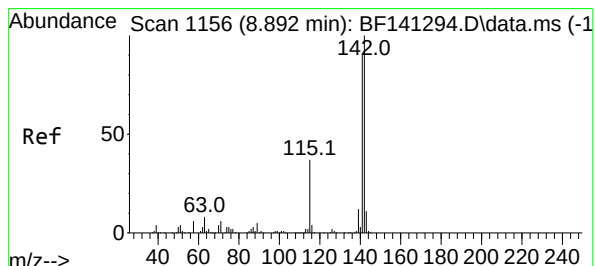
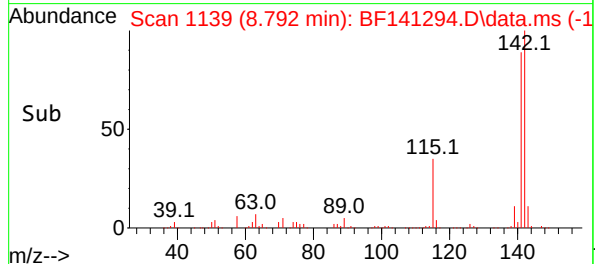
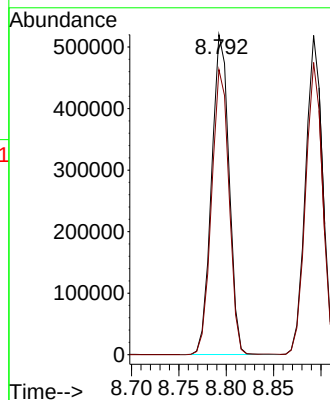
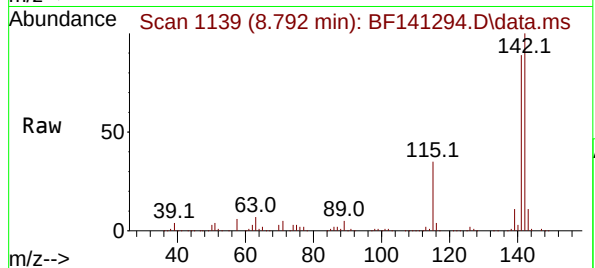
SSTDICCC040

Tgt Ion:142 Resp: 666038

Ion Ratio Lower Upper

142 100

141 89.1 71.3 106.9



#38

1-Methylnaphthalene

Concen: 36.938 ng

RT: 8.892 min Scan# 1156

Delta R.T. 0.000 min

Lab File: BF141294.D

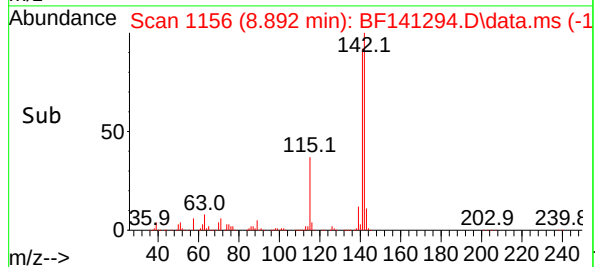
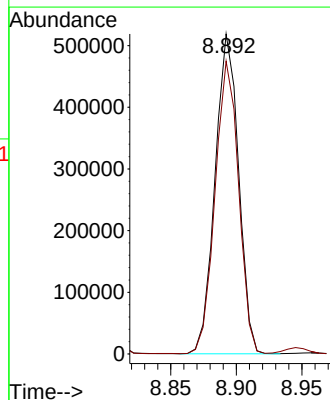
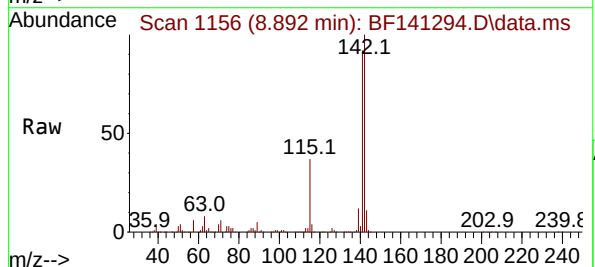
Acq: 29 Jan 2025 15:45

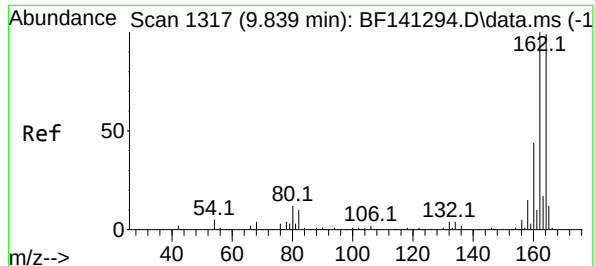
Tgt Ion:142 Resp: 646346

Ion Ratio Lower Upper

142 100

141 91.5 73.2 109.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.839 min Scan# 1167

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

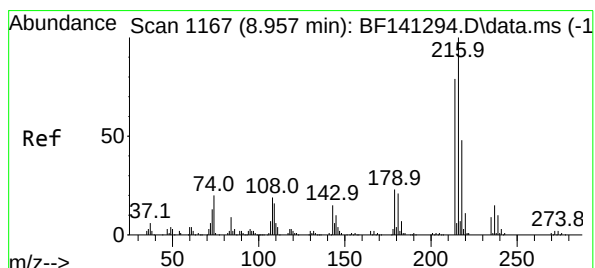
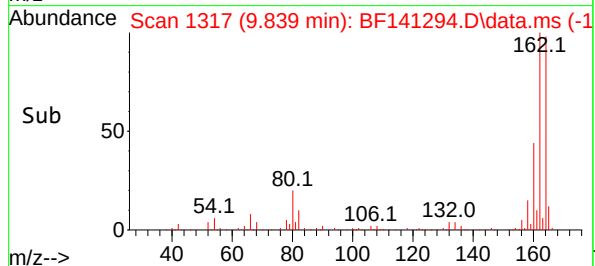
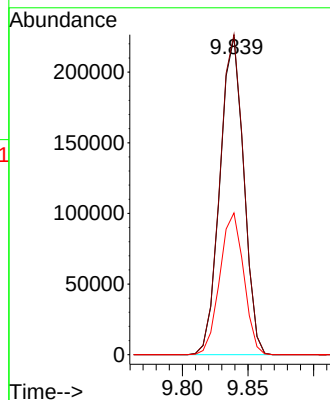
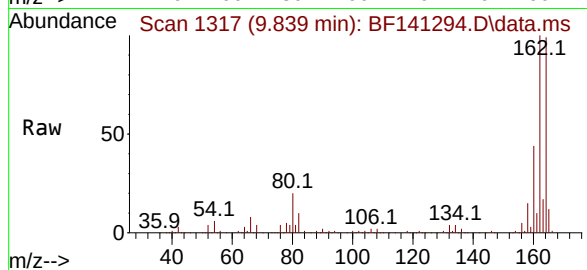
Tgt Ion:164 Resp: 282995

Ion Ratio Lower Upper

164 100

162 100.8 80.6 121.0

160 44.7 35.8 53.6



#40

1,2,4,5-Tetrachlorobenzene

Concen: 37.591 ng

RT: 8.957 min Scan# 1167

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Tgt Ion:216 Resp: 302471

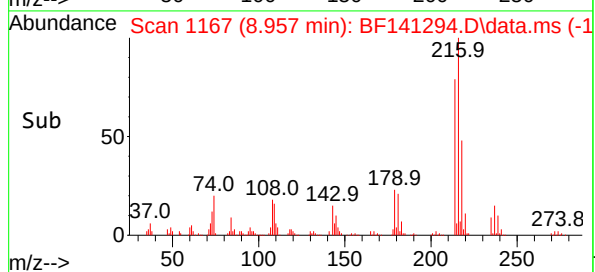
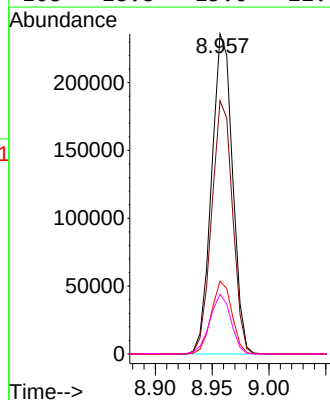
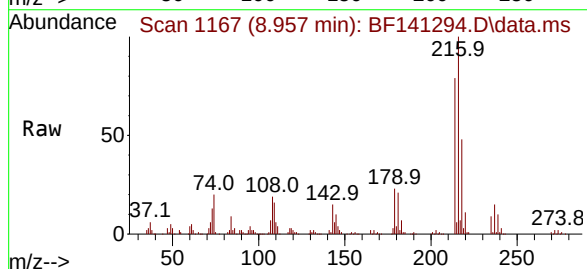
Ion Ratio Lower Upper

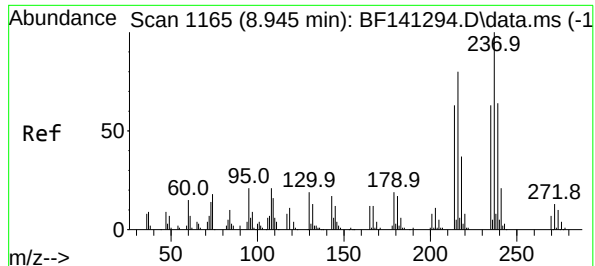
216 100

214 79.0 63.2 94.8

179 22.3 17.8 26.8

108 18.8 15.0 22.6

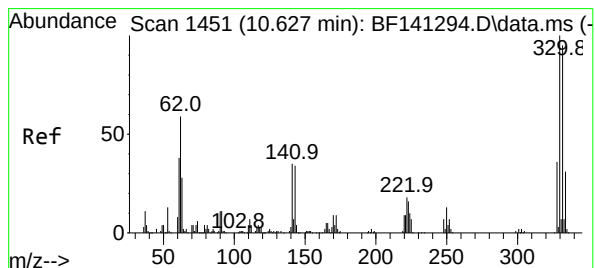
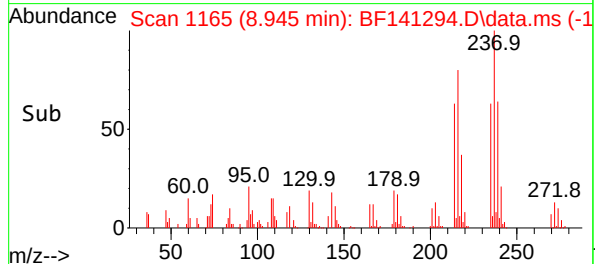
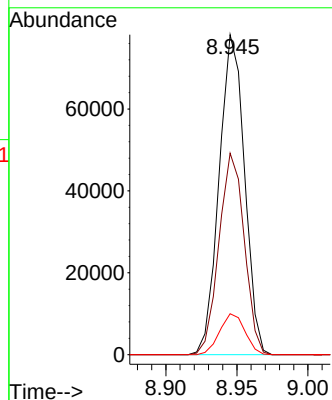
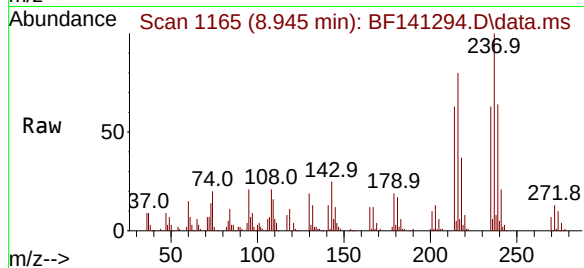




#41
Hexachlorocyclopentadiene
Concen: 40.295 ng
RT: 8.945 min Scan# 1165
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

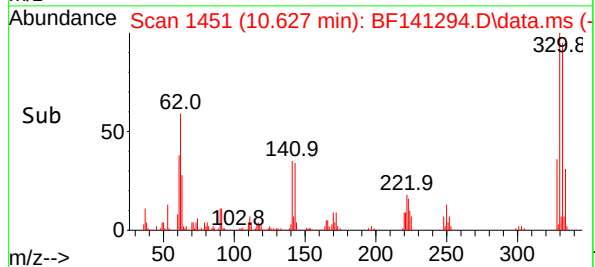
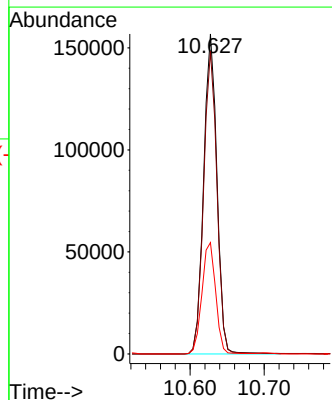
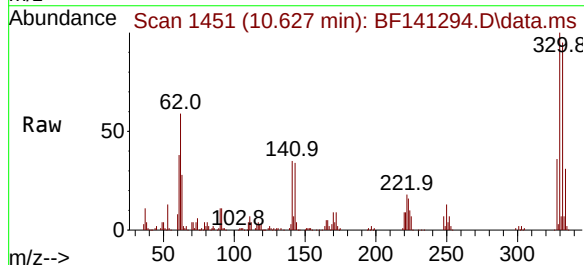
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

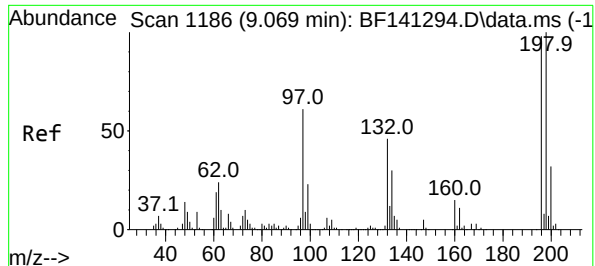
Tgt Ion	Ratio	Lower	Upper
237	100		
235	62.9	42.9	82.9
272	12.8	0.0	32.8



#42
2,4,6-Tribromophenol
Concen: 75.888 ng
RT: 10.627 min Scan# 1451
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion	Ratio	Lower	Upper
330	100		
332	95.1	76.1	114.1
141	36.0	28.8	43.2





#43

2,4,6-Trichlorophenol

Concen: 39.181 ng

RT: 9.069 min Scan# 1186

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

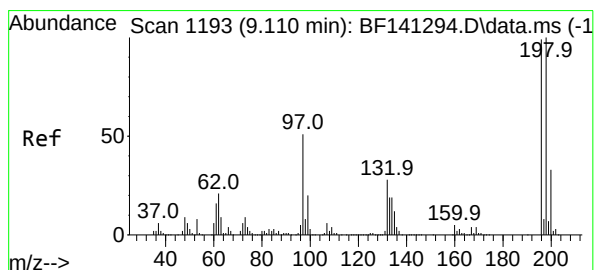
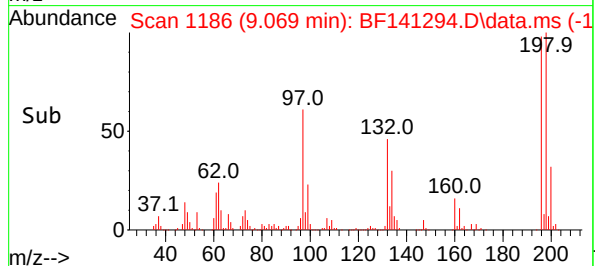
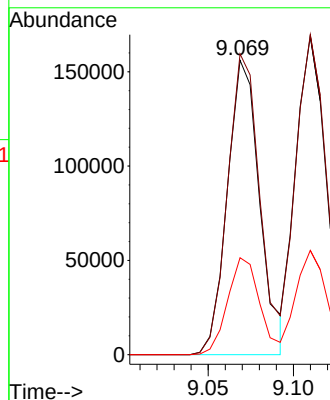
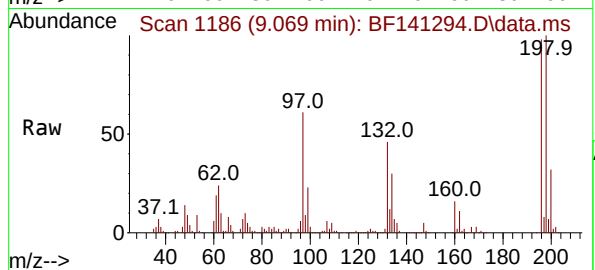
Tgt Ion:196 Resp: 205797

Ion Ratio Lower Upper

196 100

198 102.2 81.8 122.6

200 32.9 26.3 39.5



#44

2,4,5-Trichlorophenol

Concen: 37.346 ng

RT: 9.110 min Scan# 1193

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Tgt Ion:196 Resp: 213401

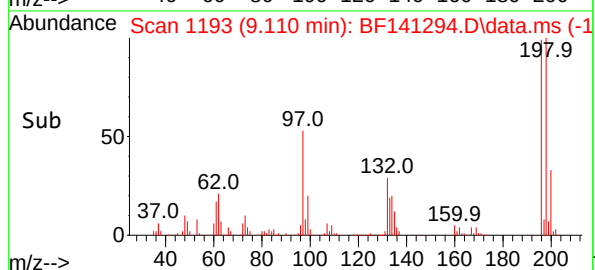
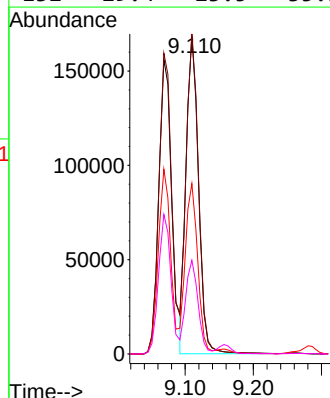
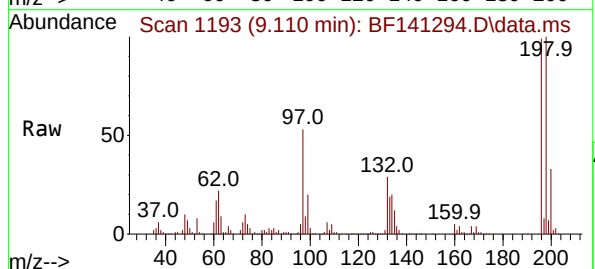
Ion Ratio Lower Upper

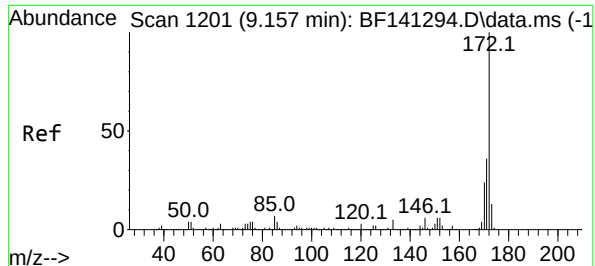
196 100

198 100.6 80.5 120.7

97 53.5 42.8 64.2

132 29.4 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 73.029 ng

RT: 9.157 min Scan# 1201

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

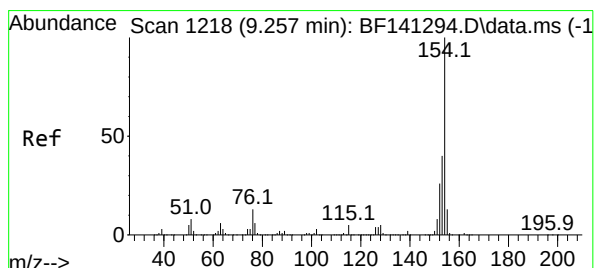
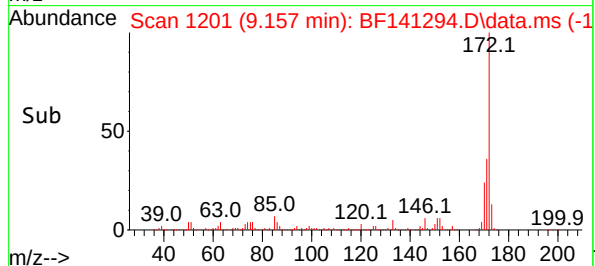
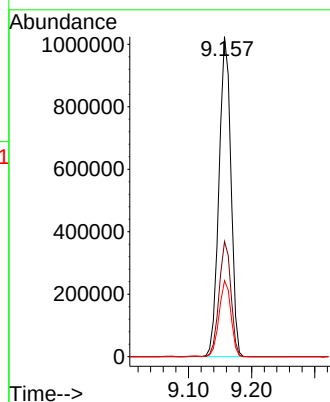
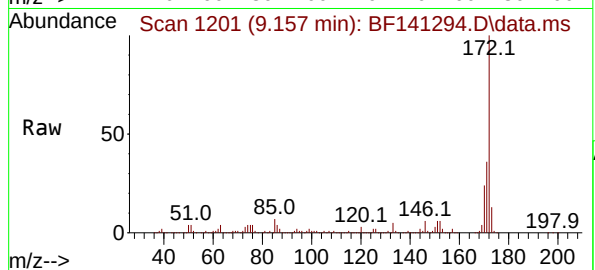
Tgt Ion:172 Resp: 1339709

Ion Ratio Lower Upper

172 100

171 36.0 28.8 43.2

170 23.8 19.0 28.6



#46

1,1'-Biphenyl

Concen: 37.278 ng

RT: 9.257 min Scan# 1218

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

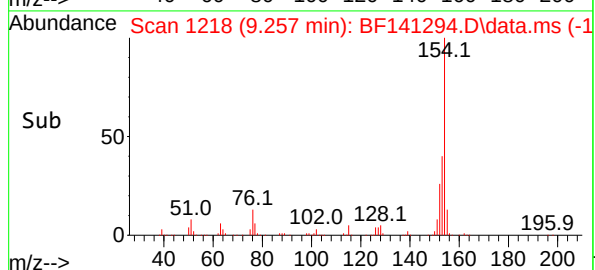
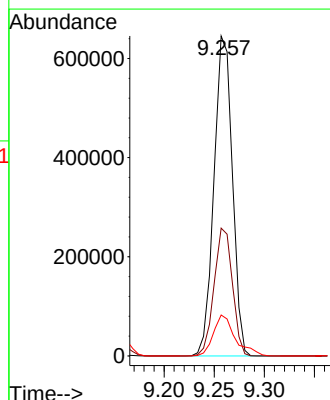
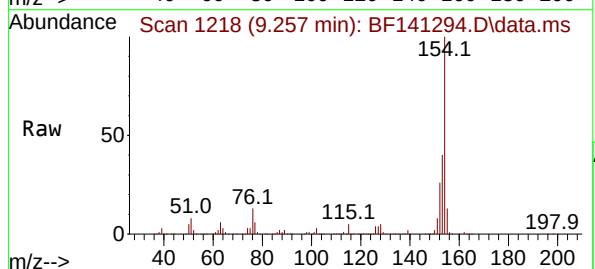
Tgt Ion:154 Resp: 823004

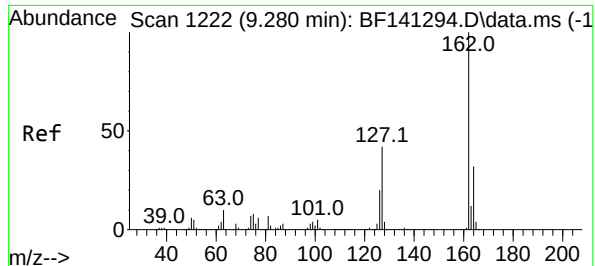
Ion Ratio Lower Upper

154 100

153 40.0 20.0 60.0

76 12.8 0.0 32.8





#47

2-Chloronaphthalene

Concen: 37.020 ng

RT: 9.280 min Scan# 1222

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

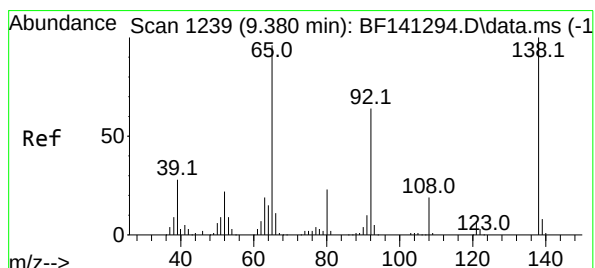
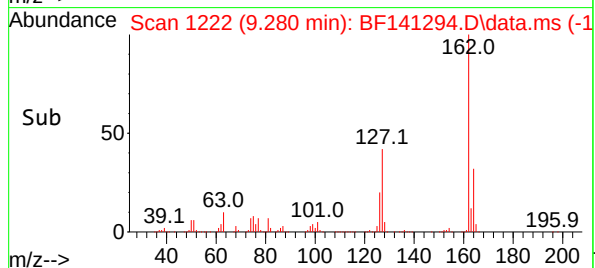
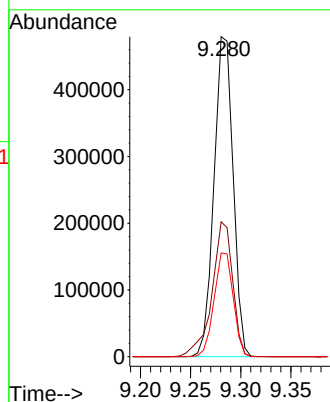
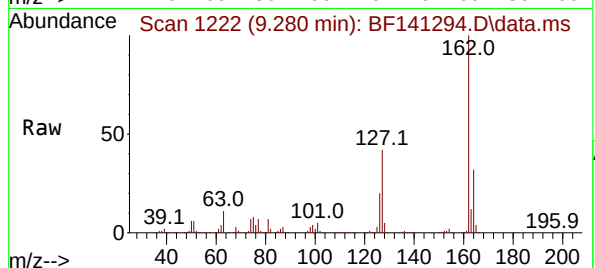
Tgt Ion:162 Resp: 634814

Ion Ratio Lower Upper

162 100

127 42.1 33.7 50.5

164 32.4 25.9 38.9



#48

2-Nitroaniline

Concen: 38.089 ng

RT: 9.380 min Scan# 1239

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

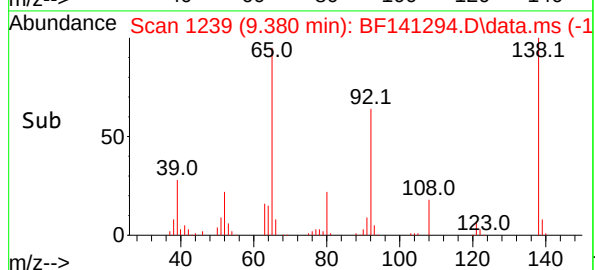
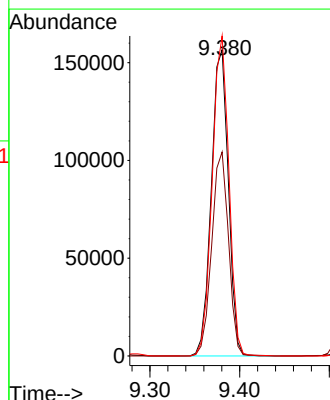
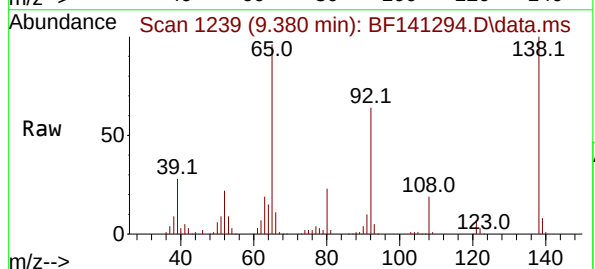
Tgt Ion: 65 Resp: 205997

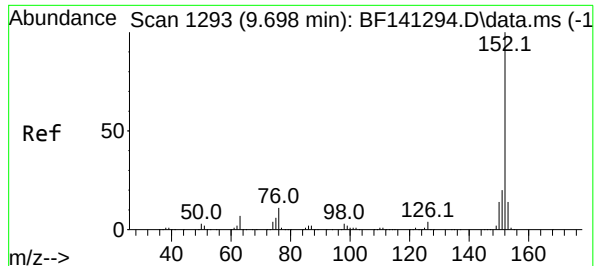
Ion Ratio Lower Upper

65 100

92 66.6 53.3 79.9

138 104.5 83.6 125.4





#49

Acenaphthylene

Concen: 37.483 ng

RT: 9.698 min Scan# 1293

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

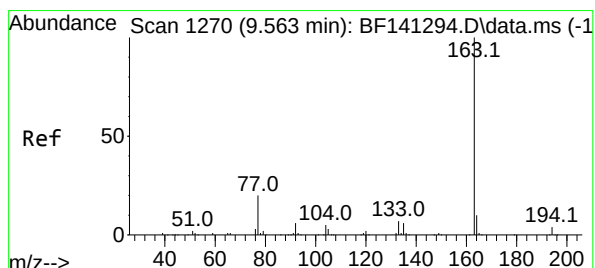
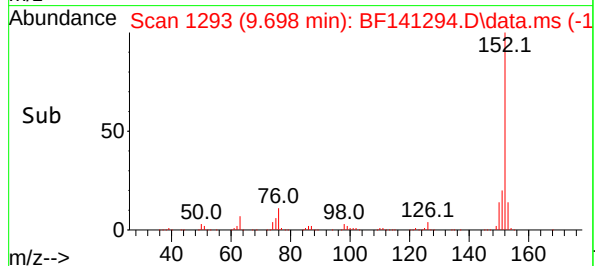
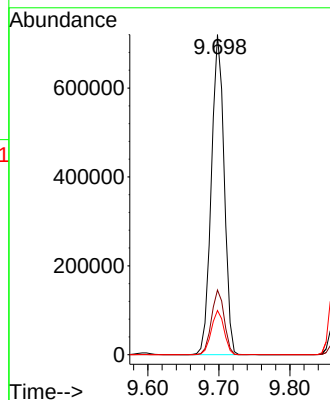
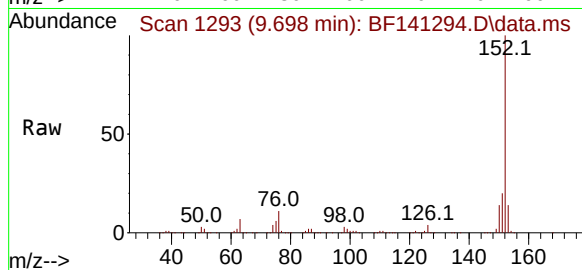
Tgt Ion:152 Resp: 902715

Ion Ratio Lower Upper

152 100

151 20.2 16.2 24.2

153 13.8 11.0 16.6



#50

Dimethylphthalate

Concen: 36.945 ng

RT: 9.563 min Scan# 1270

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

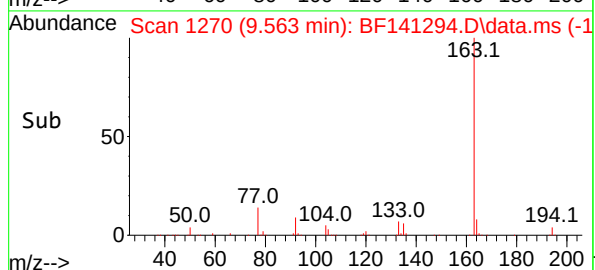
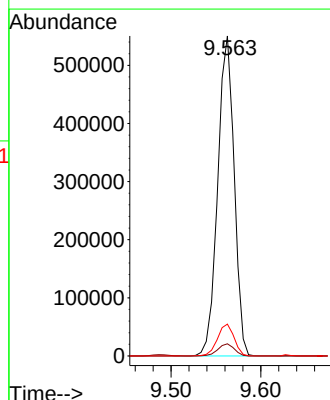
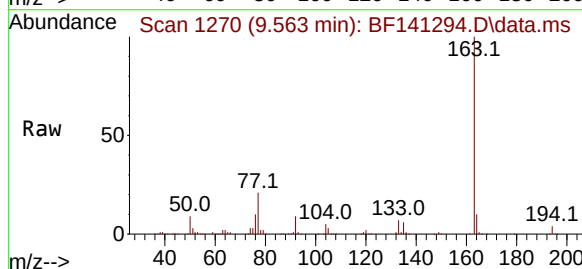
Tgt Ion:163 Resp: 701107

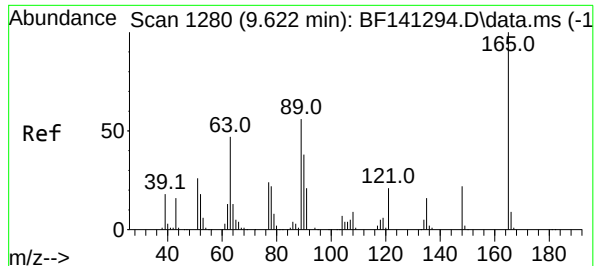
Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.6

164 10.0 8.0 12.0





#51

2,6-Dinitrotoluene

Concen: 37.909 ng

RT: 9.622 min Scan# 1280

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

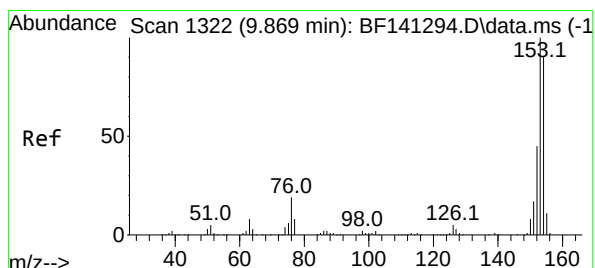
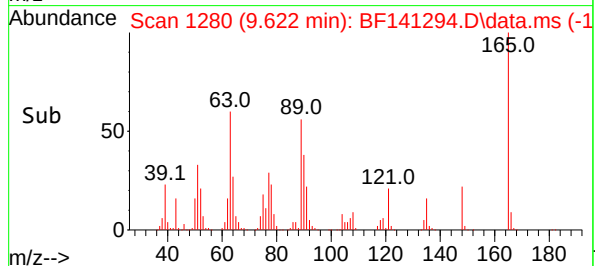
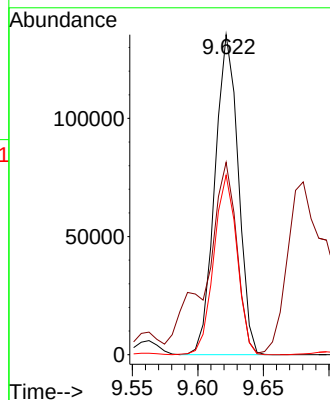
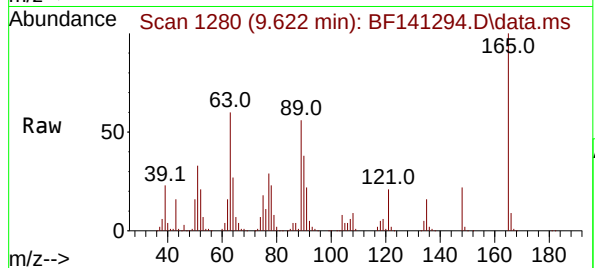
Tgt Ion:165 Resp: 167409

Ion Ratio Lower Upper

165 100

63 60.1 48.1 72.1

89 56.1 44.9 67.3



#52

Acenaphthene

Concen: 37.266 ng

RT: 9.869 min Scan# 1322

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

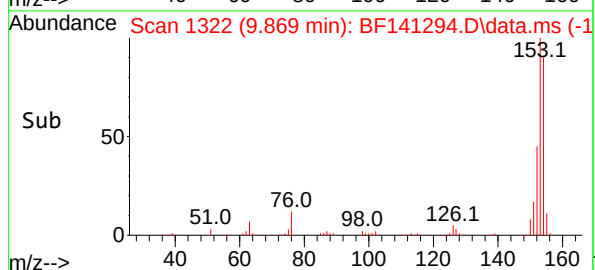
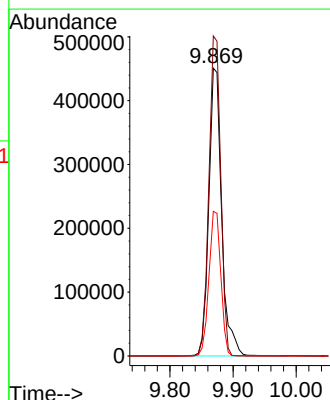
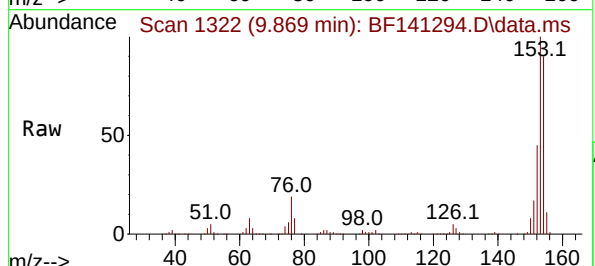
Tgt Ion:154 Resp: 638597

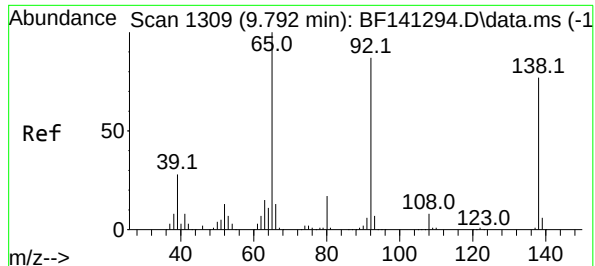
Ion Ratio Lower Upper

154 100

153 111.2 89.0 133.4

152 50.3 40.2 60.4





#53

3-Nitroaniline

Concen: 39.240 ng

RT: 9.792 min Scan# 1309

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

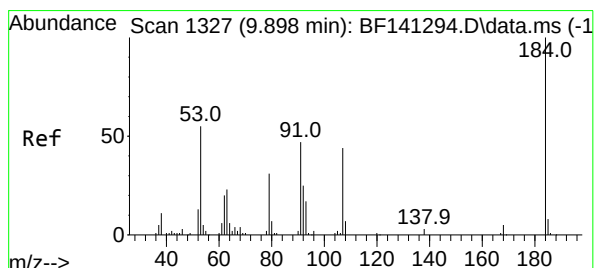
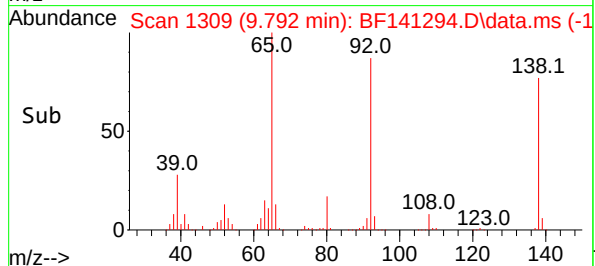
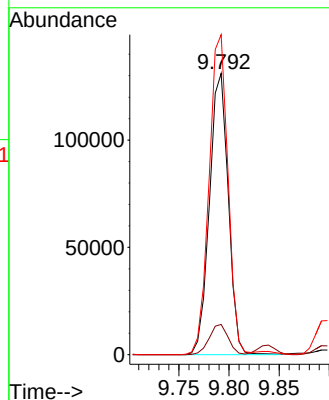
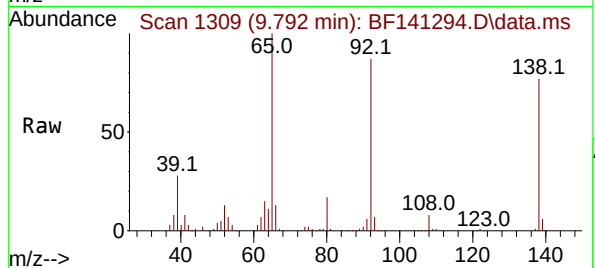
Tgt Ion:138 Resp: 171409

Ion Ratio Lower Upper

138 100

108 10.7 8.6 12.8

92 113.8 91.0 136.6



#54

2,4-Dinitrophenol

Concen: 40.011 ng

RT: 9.898 min Scan# 1327

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

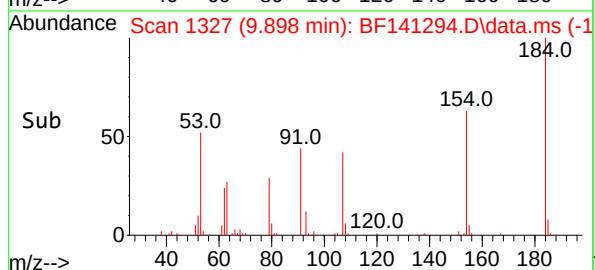
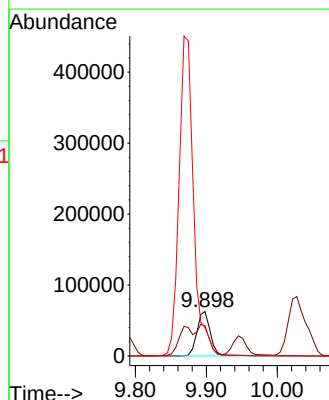
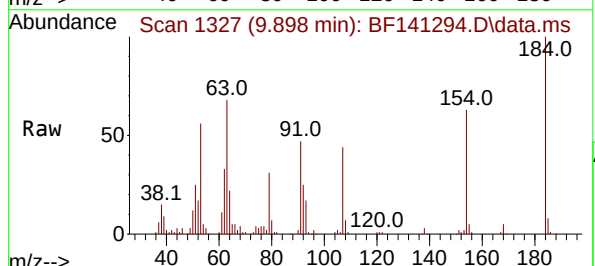
Tgt Ion:184 Resp: 83282

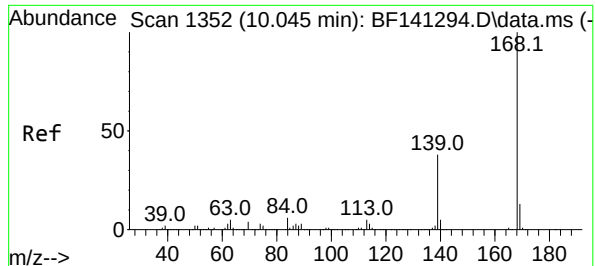
Ion Ratio Lower Upper

184 100

63 67.6 54.1 81.1

154 63.4 50.7 76.1





#55

Dibenzenofuran

Concen: 37.490 ng

RT: 10.045 min Scan# 1352

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

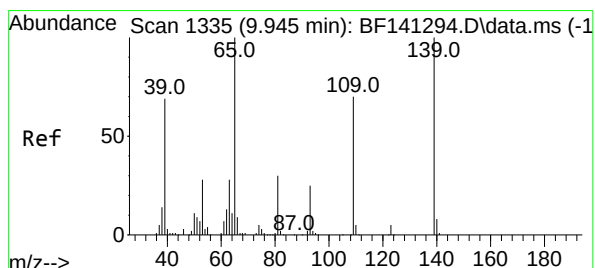
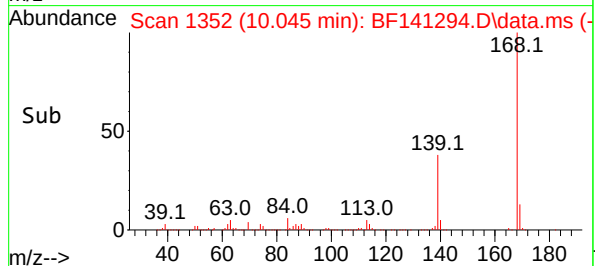
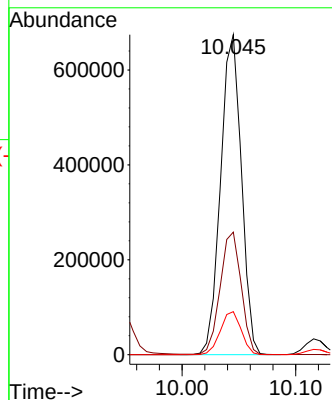
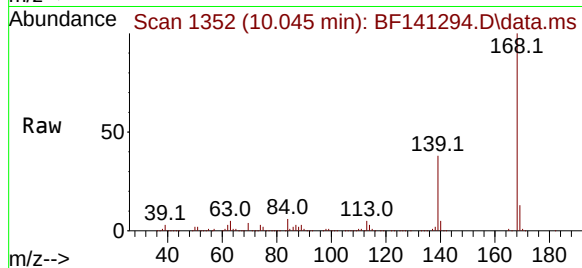
Tgt Ion:168 Resp: 859175

Ion Ratio Lower Upper

168 100

139 38.3 30.6 46.0

169 13.5 10.8 16.2



#56

4-Nitrophenol

Concen: 40.349 ng

RT: 9.945 min Scan# 1335

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

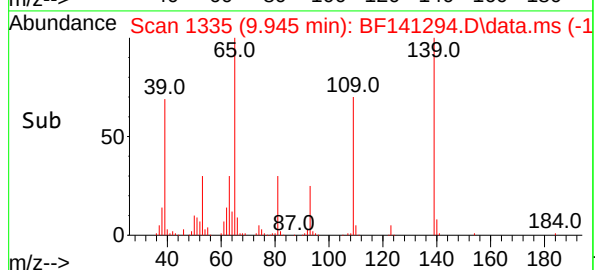
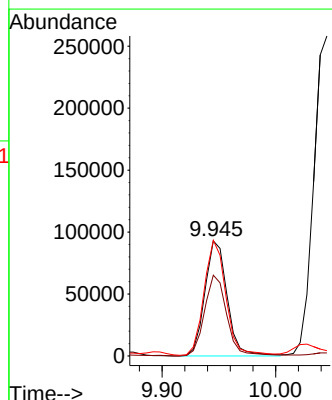
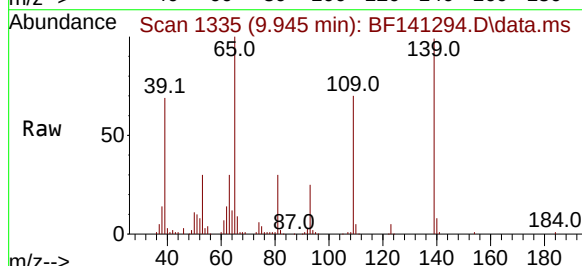
Tgt Ion:139 Resp: 126536

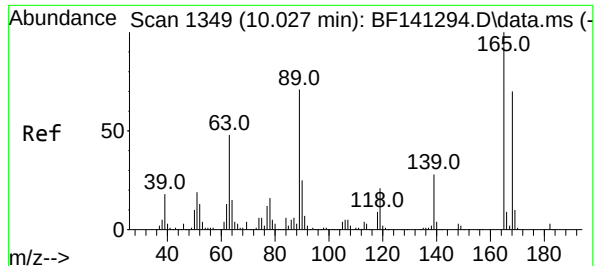
Ion Ratio Lower Upper

139 100

109 70.2 50.2 90.2

65 100.6 80.6 120.6

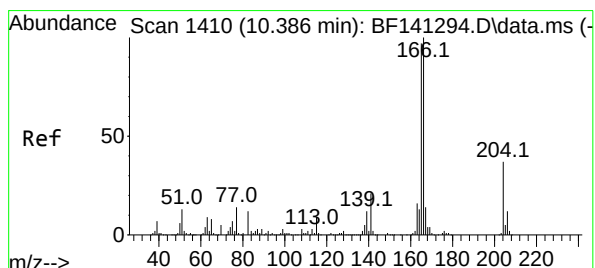
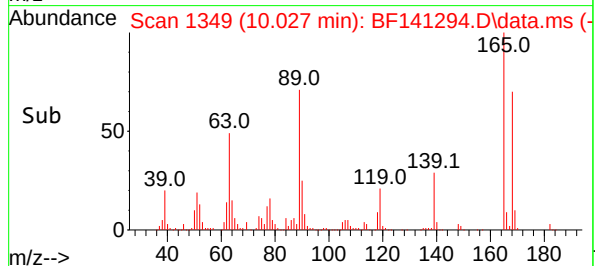
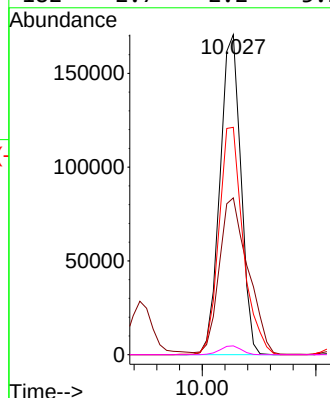
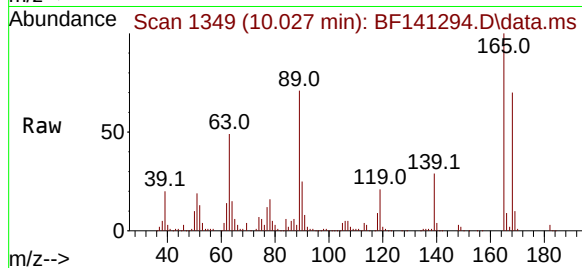




#57
2,4-Dinitrotoluene
Concen: 38.382 ng
RT: 10.027 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

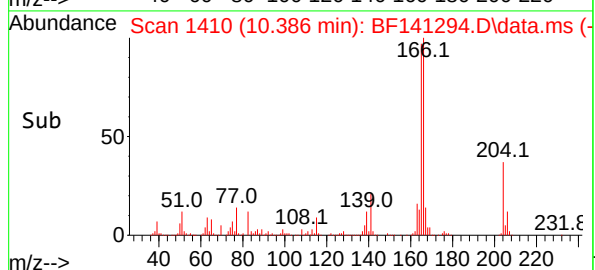
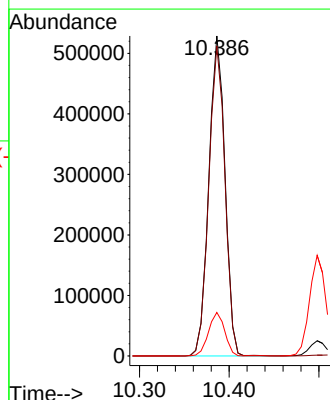
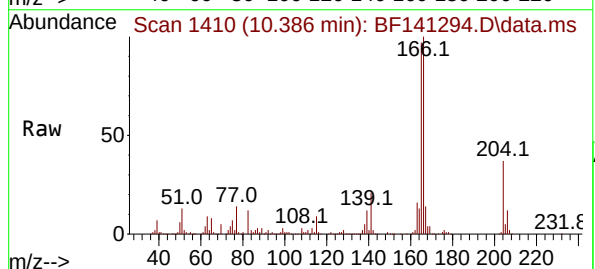
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

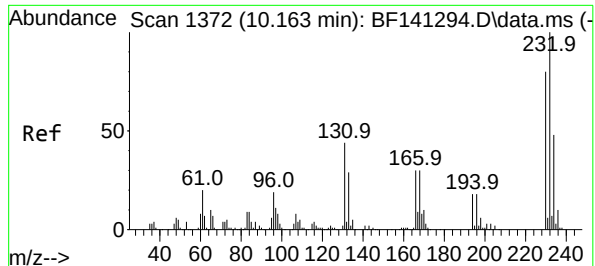
Tgt Ion:165 Resp: 218627
Ion Ratio Lower Upper
165 100
63 49.0 39.2 58.8
89 71.1 56.9 85.3
182 2.7 2.2 3.2



#58
Fluorene
Concen: 37.076 ng
RT: 10.386 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:166 Resp: 660612
Ion Ratio Lower Upper
166 100
165 96.9 77.5 116.3
167 13.6 10.9 16.3

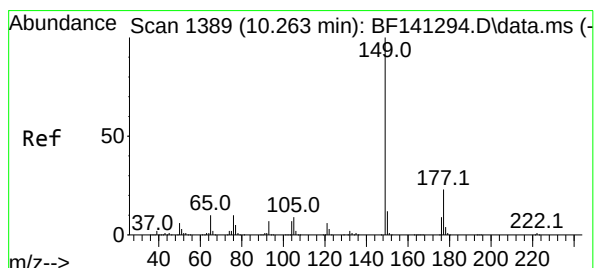
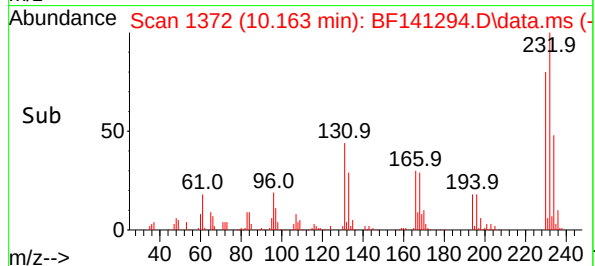
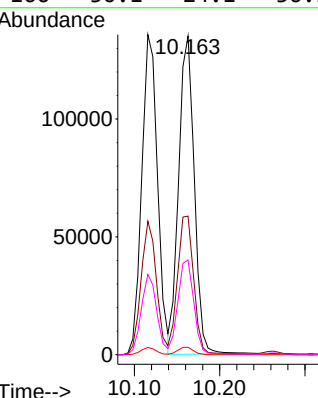
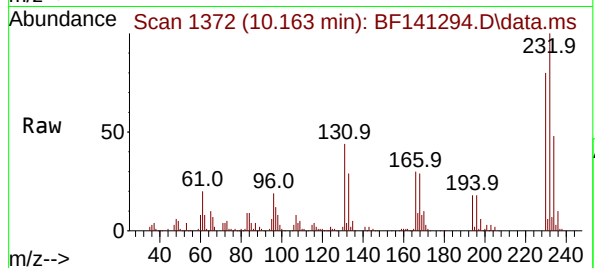




#59
2,3,4,6-Tetrachlorophenol
Concen: 38.138 ng
RT: 10.163 min Scan# 1372
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

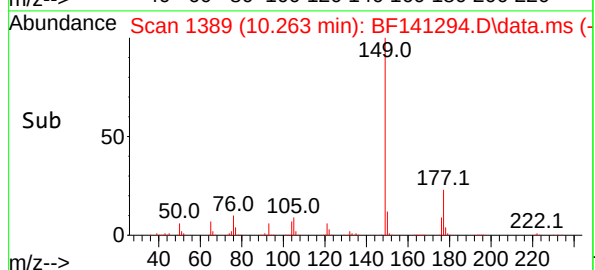
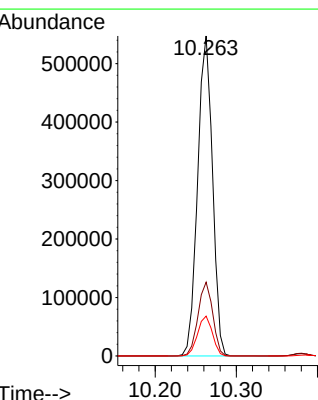
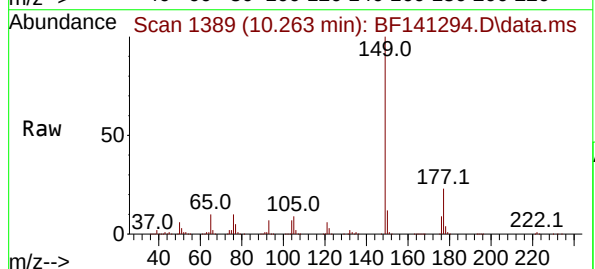
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

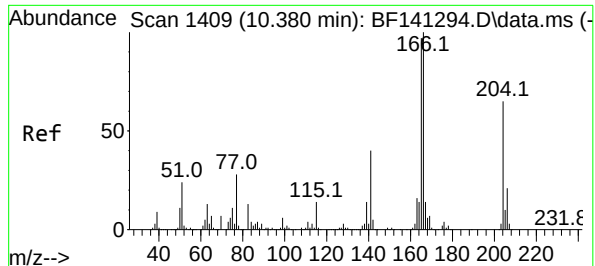
Tgt Ion:232 Resp: 172174
Ion Ratio Lower Upper
232 100
131 45.5 36.4 54.6
130 2.4 1.9 2.9
166 30.1 24.1 36.1



#60
Diethylphthalate
Concen: 37.710 ng
RT: 10.263 min Scan# 1389
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:149 Resp: 693066
Ion Ratio Lower Upper
149 100
177 23.1 18.5 27.7
150 12.5 10.0 15.0

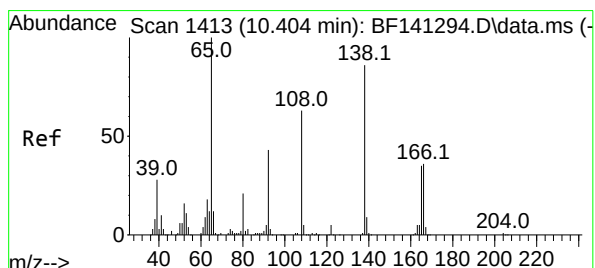
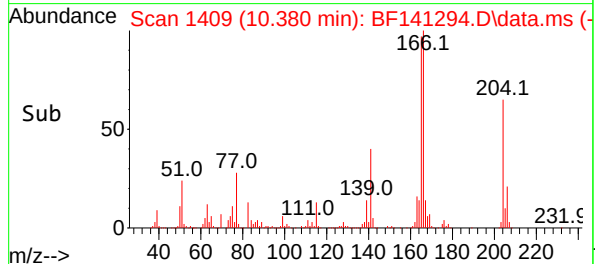
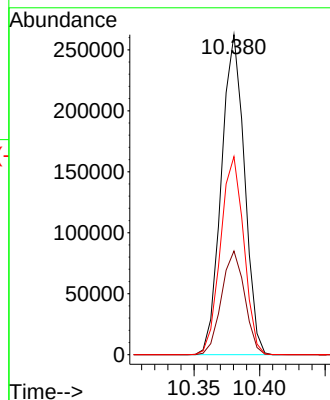
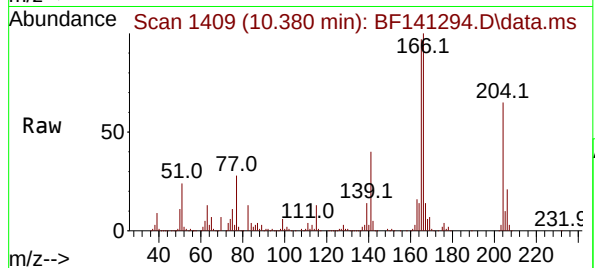




#61
4-Chlorophenyl-phenylether
Concen: 36.929 ng
RT: 10.380 min Scan# 1409
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

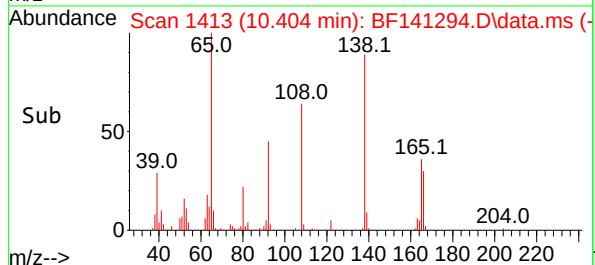
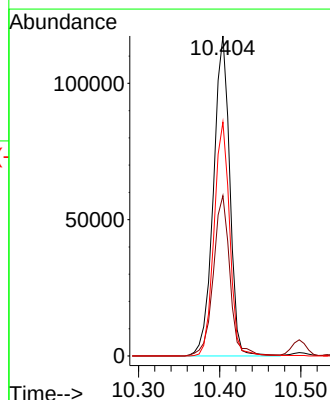
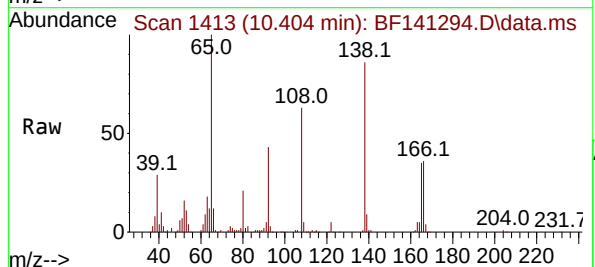
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

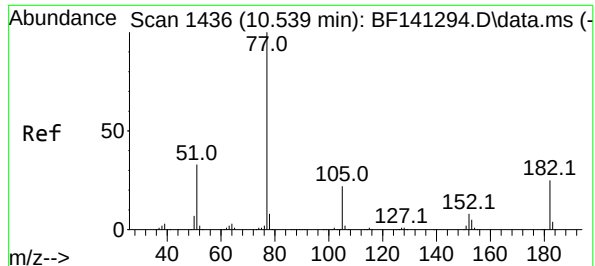
Tgt Ion:204 Resp: 321112
Ion Ratio Lower Upper
204 100
206 32.4 25.9 38.9
141 61.9 49.5 74.3



#62
4-Nitroaniline
Concen: 39.120 ng
RT: 10.404 min Scan# 1413
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:138 Resp: 164154
Ion Ratio Lower Upper
138 100
92 50.1 30.1 70.1
108 73.1 53.1 93.1

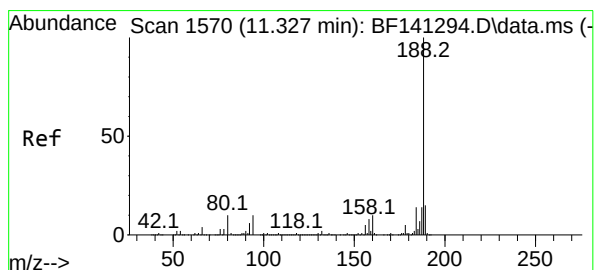
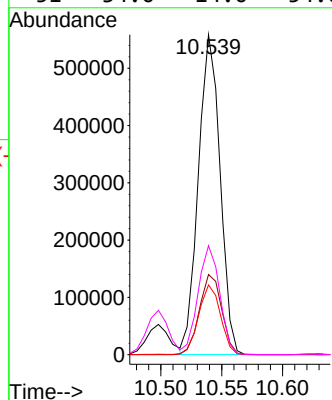
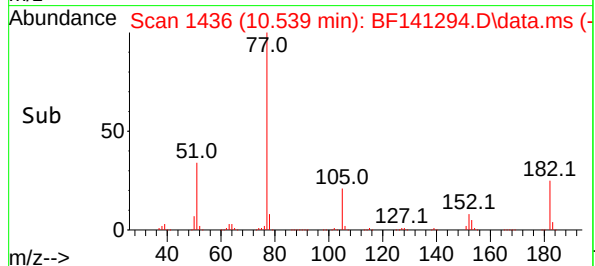
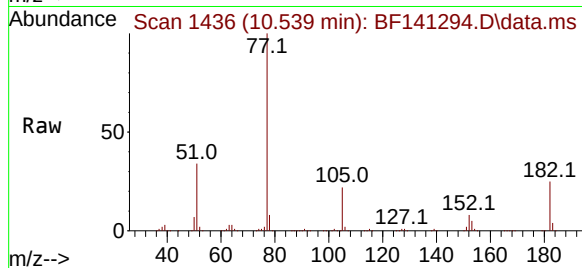




#63
Azobenzene
Concen: 37.621 ng
RT: 10.539 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

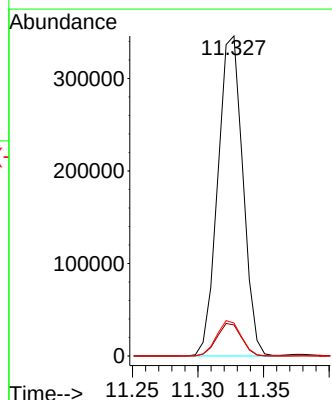
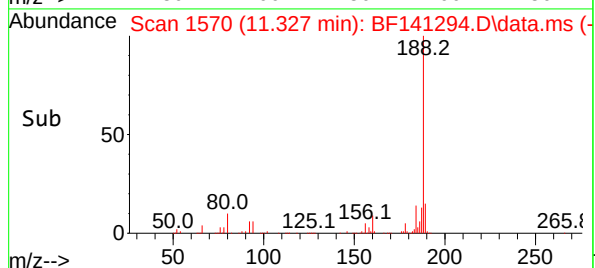
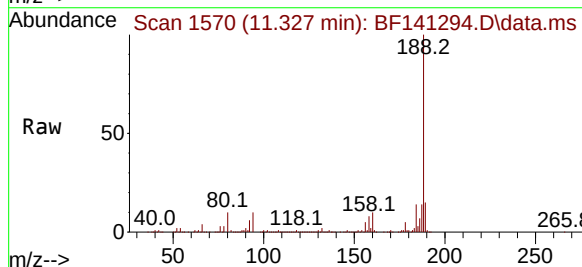
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

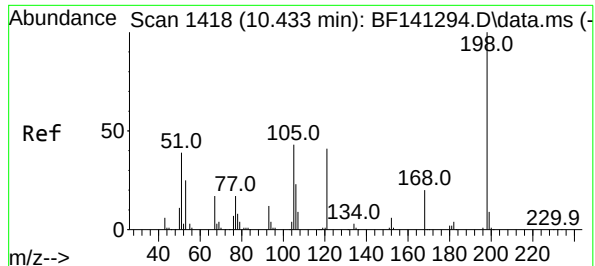
Tgt Ion:	77	Resp:	693050
Ion	Ratio	Lower	Upper
77	100		
182	25.1	5.1	45.1
105	21.8	1.8	41.8
51	34.0	14.0	54.0



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1570
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:	188	Resp:	458392
Ion	Ratio	Lower	Upper
188	100		
94	9.7	7.8	11.6
80	10.3	8.2	12.4

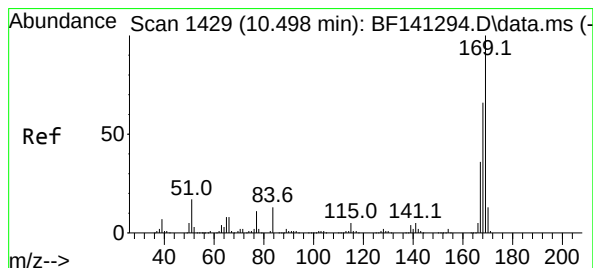
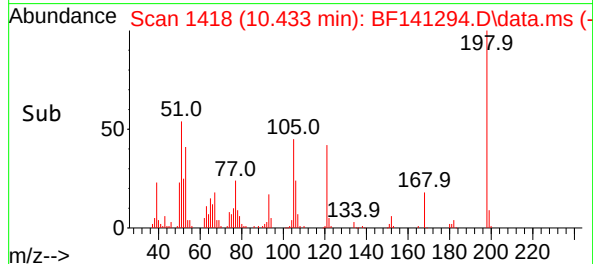
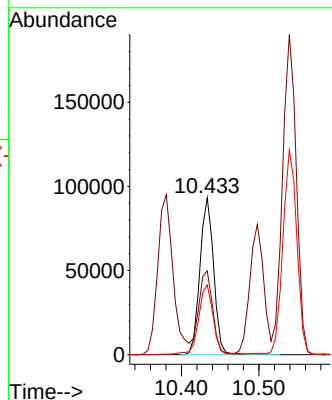
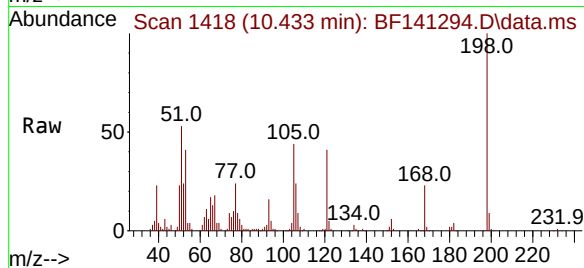




#65
4,6-Dinitro-2-methylphenol
Concen: 41.914 ng
RT: 10.433 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

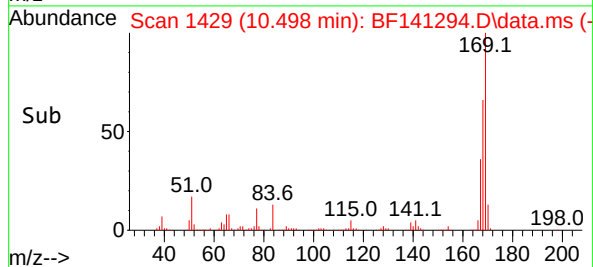
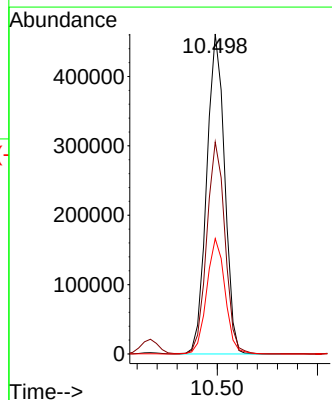
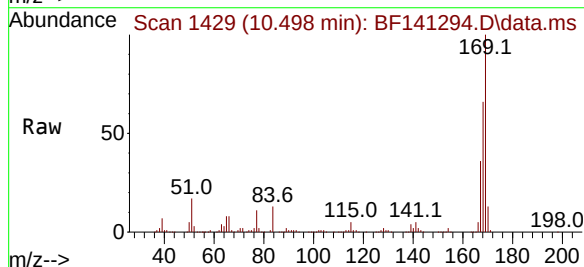
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

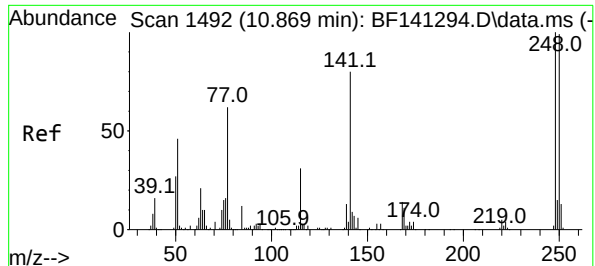
Tgt Ion	Ratio	Lower	Upper
198	100		
51	53.4	33.4	73.4
105	44.4	24.4	64.4



#66
n-Nitrosodiphenylamine
Concen: 38.602 ng
RT: 10.498 min Scan# 1429
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion	Ratio	Lower	Upper
169	100		
168	66.2	53.0	79.4
167	36.0	28.8	43.2

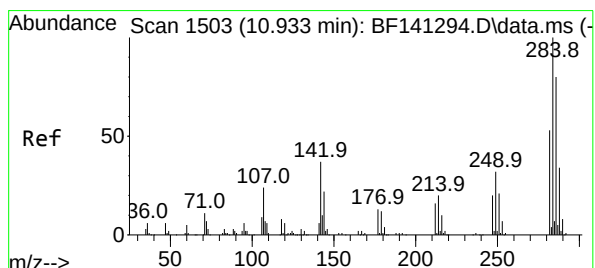
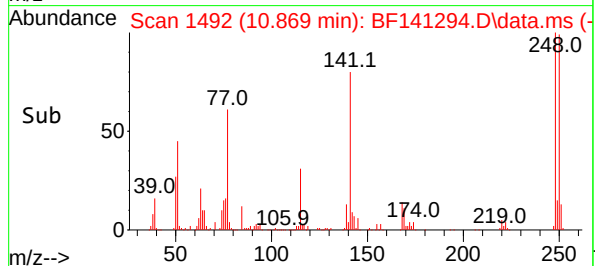
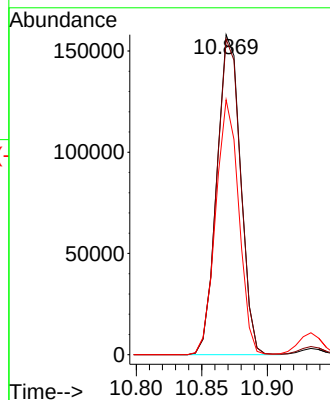
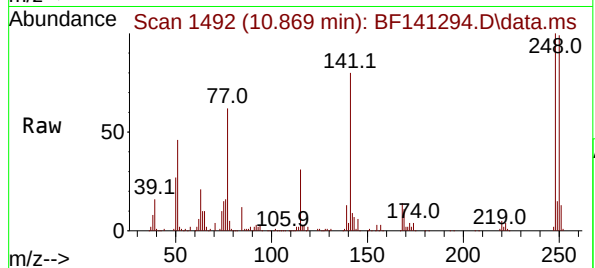




#67
4-Bromophenyl-phenylether
Concen: 38.815 ng
RT: 10.869 min Scan# 1492
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

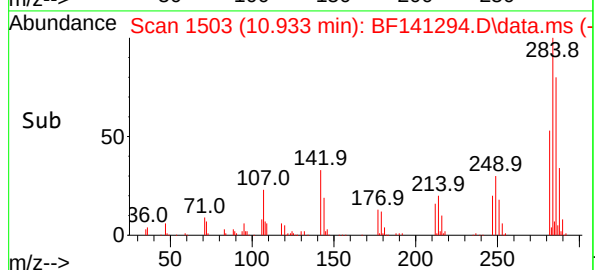
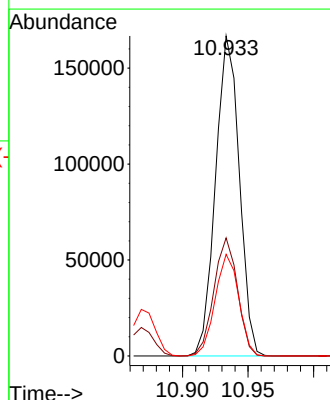
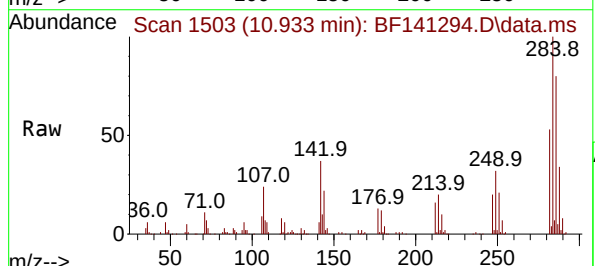
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

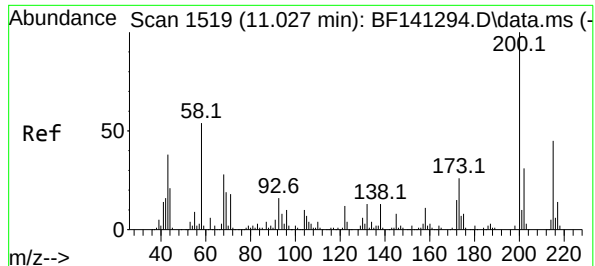
Tgt Ion:248 Resp: 198895
Ion Ratio Lower Upper
248 100
250 98.7 79.0 118.4
141 79.6 63.7 95.5



#68
Hexachlorobenzene
Concen: 38.586 ng
RT: 10.933 min Scan# 1503
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:284 Resp: 209735
Ion Ratio Lower Upper
284 100
142 36.9 29.5 44.3
249 31.8 25.4 38.2





#69

Atrazine

Concen: 39.131 ng

RT: 11.027 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

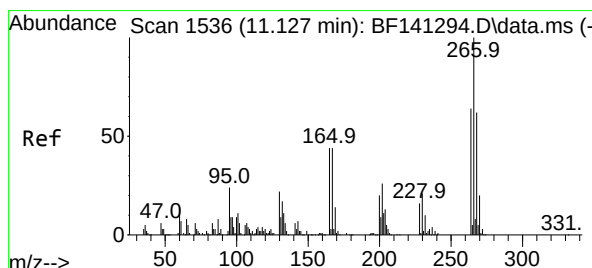
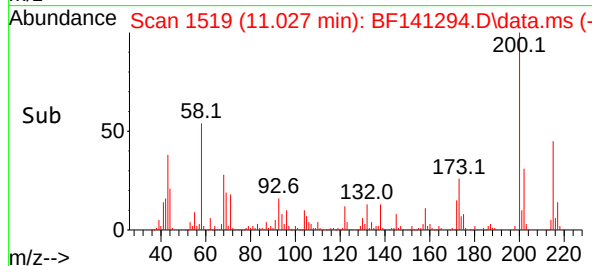
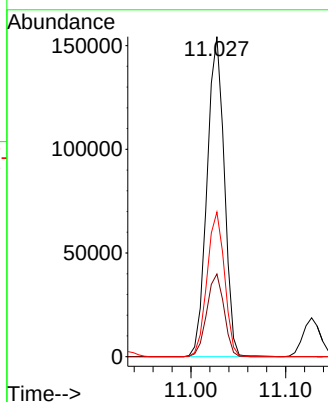
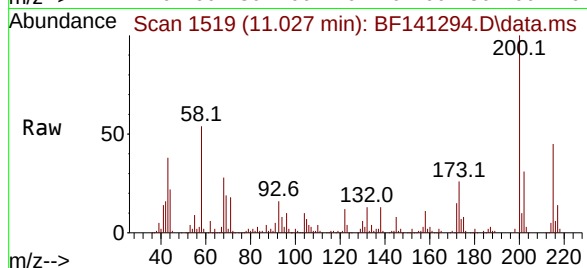
Tgt Ion:200 Resp: 195062

Ion Ratio Lower Upper

200 100

173 25.9 5.9 45.9

215 45.2 25.2 65.2



#70

Pentachlorophenol

Concen: 41.196 ng

RT: 11.127 min Scan# 1536

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

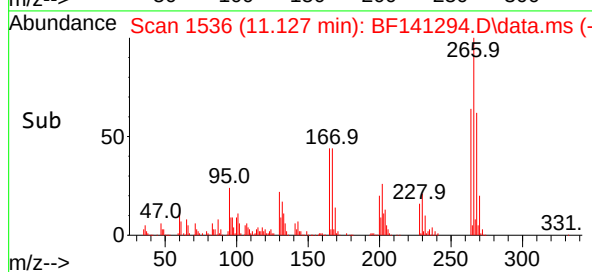
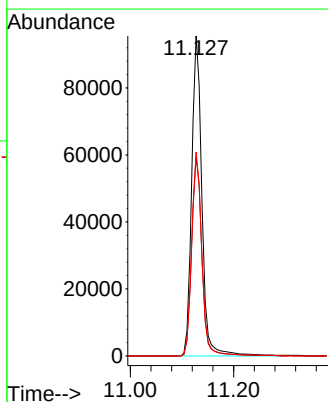
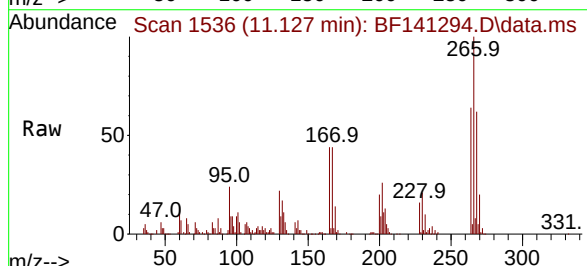
Tgt Ion:266 Resp: 131295

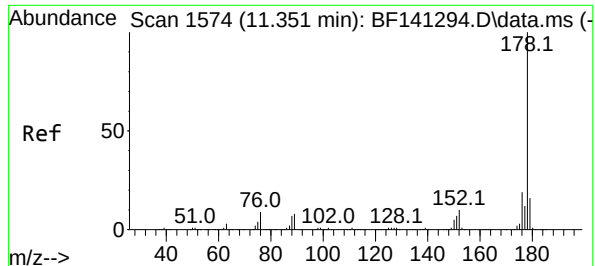
Ion Ratio Lower Upper

266 100

268 62.4 49.9 74.9

264 63.7 51.0 76.4

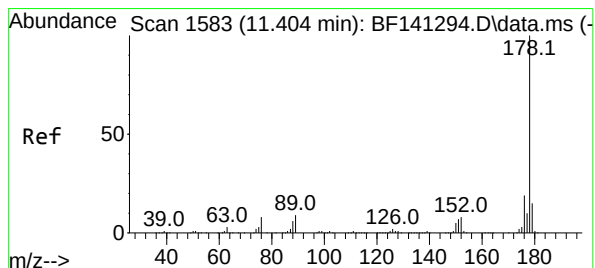
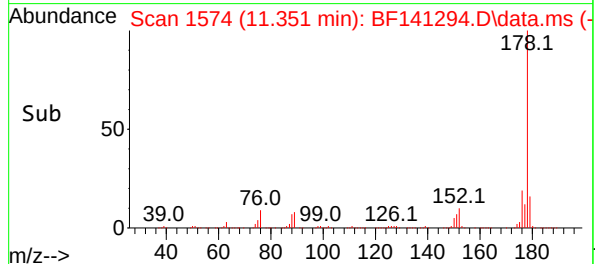
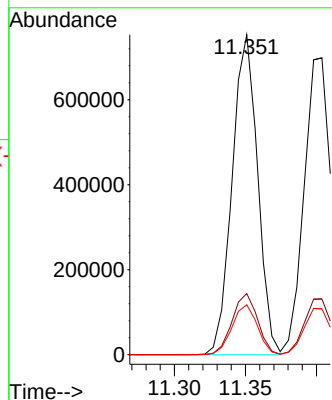
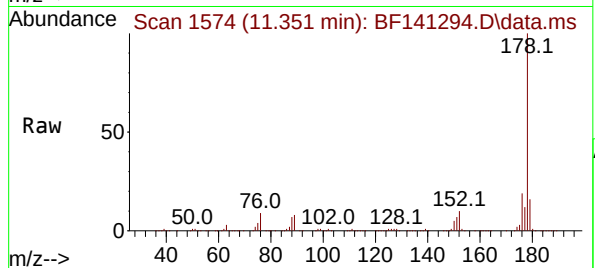




#71
Phenanthrene
Concen: 38.175 ng
RT: 11.351 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

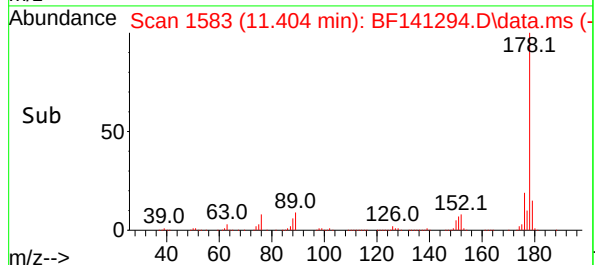
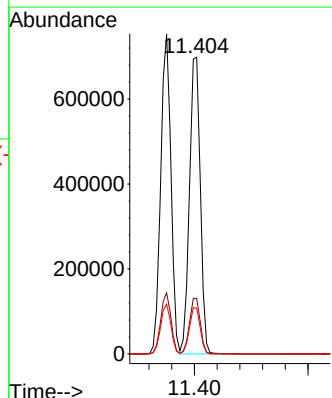
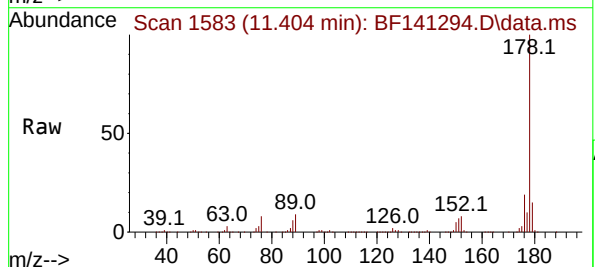
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

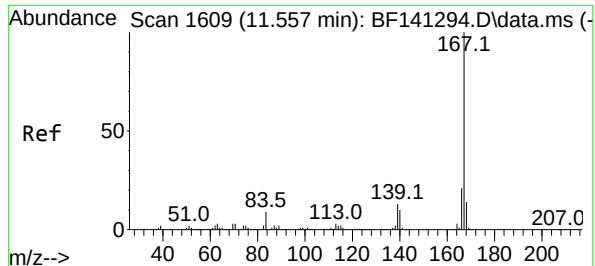
Tgt Ion:178 Resp: 940021
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.6 12.5 18.7



#72
Anthracene
Concen: 38.521 ng
RT: 11.404 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:178 Resp: 925244
Ion Ratio Lower Upper
178 100
176 18.8 15.0 22.6
179 15.4 12.3 18.5

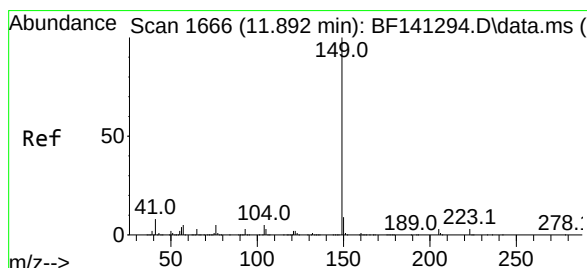
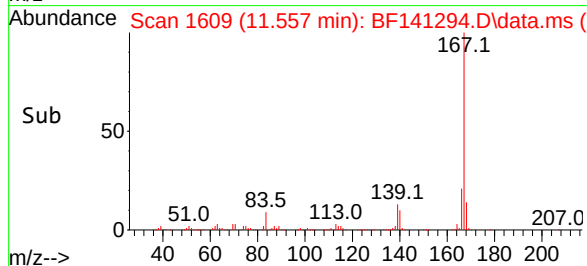
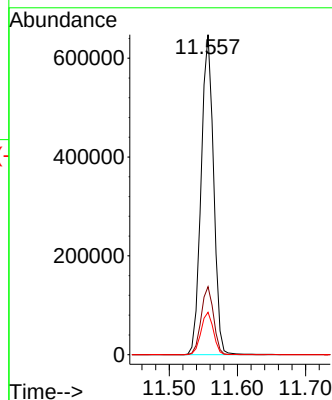
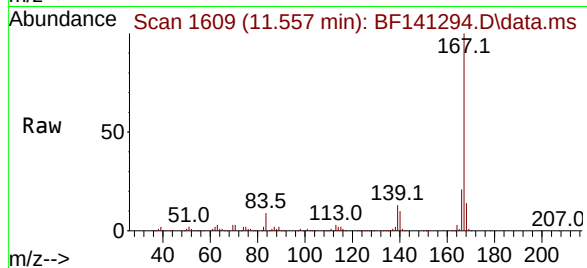




#73
Carbazole
Concen: 38.735 ng
RT: 11.557 min Scan# 1609
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

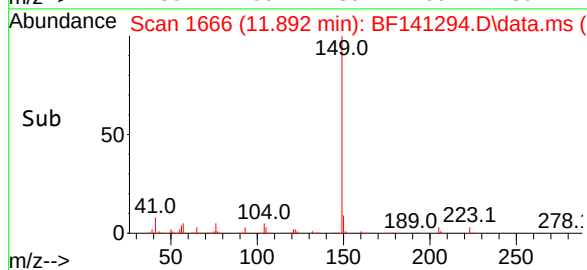
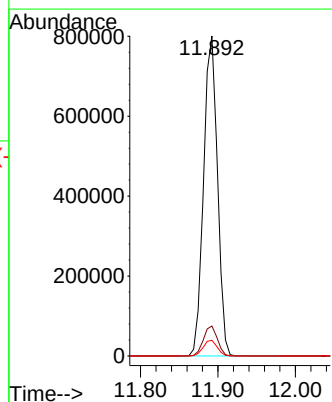
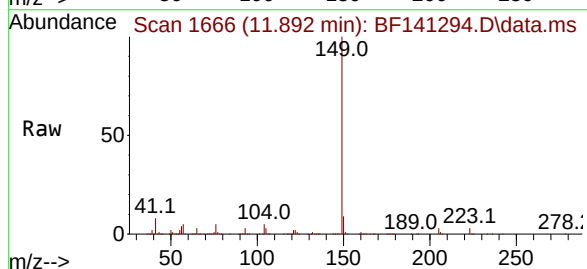
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

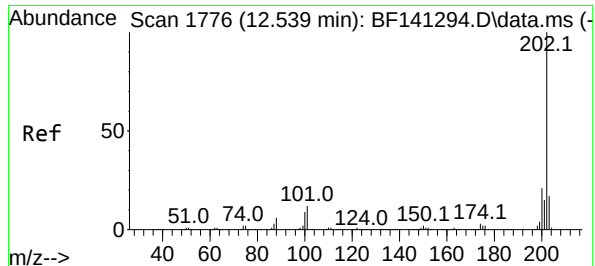
Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.3	17.0	25.6
139	13.3	10.6	16.0



#74
Di-n-butylphthalate
Concen: 38.805 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.3	7.4	11.2
104	4.9	3.9	5.9

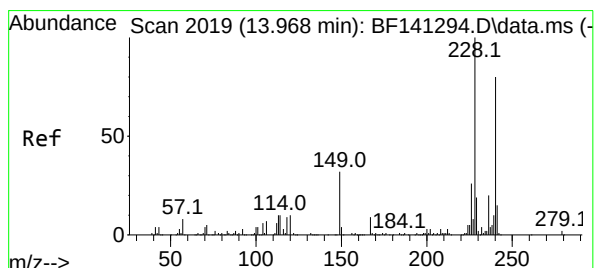
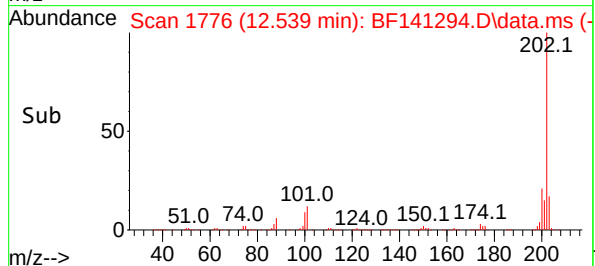
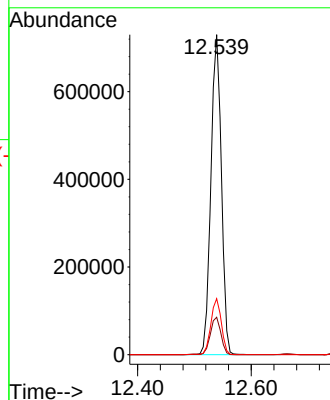
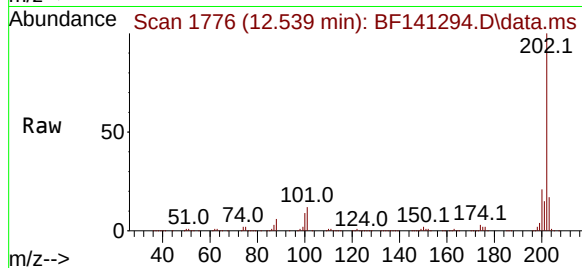




#75
Fluoranthene
Concen: 38.650 ng
RT: 12.539 min Scan# 1776
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

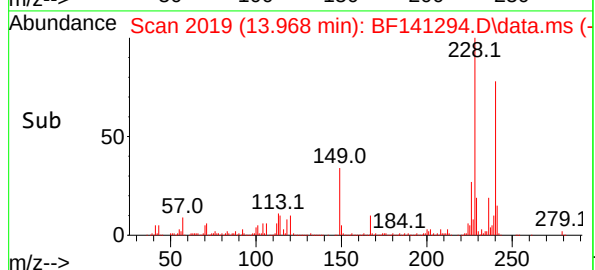
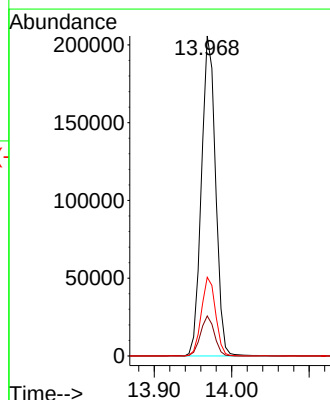
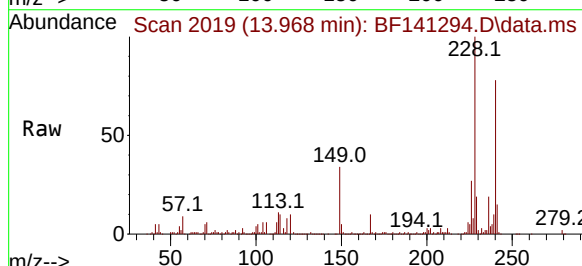
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

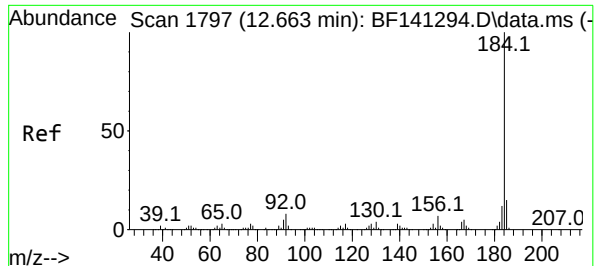
Tgt Ion	Ratio	Lower	Upper
202	100		
101	11.7	0.0	31.7
203	17.5	0.0	37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion	Ratio	Lower	Upper
240	100		
120	12.5	10.0	15.0
236	24.6	19.7	29.5





#77

Benzidine

Concen: 48.034 ng

RT: 12.663 min Scan# 1797

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

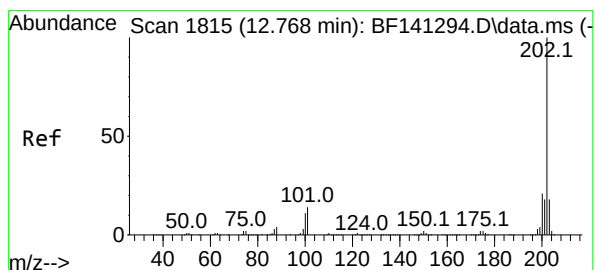
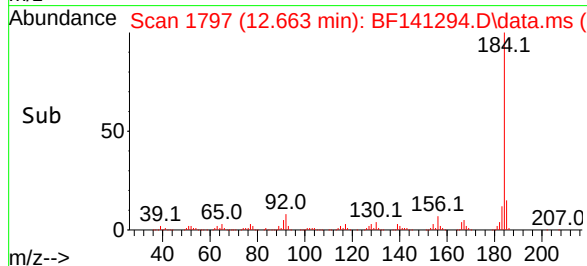
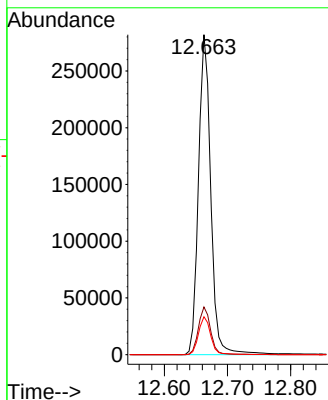
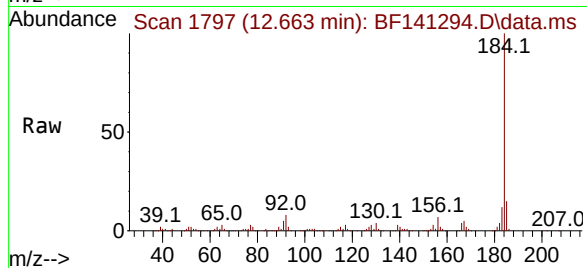
Tgt Ion:184 Resp: 380623

Ion Ratio Lower Upper

184 100

185 14.9 11.9 17.9

183 11.9 9.5 14.3



#78

Pyrene

Concen: 36.333 ng

RT: 12.768 min Scan# 1815

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

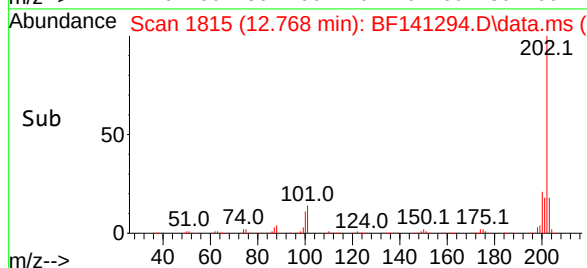
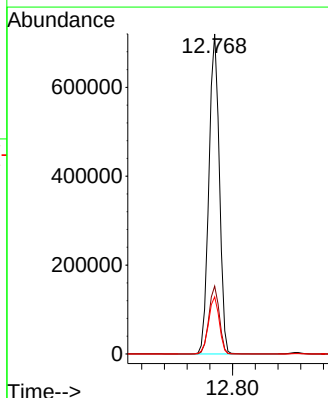
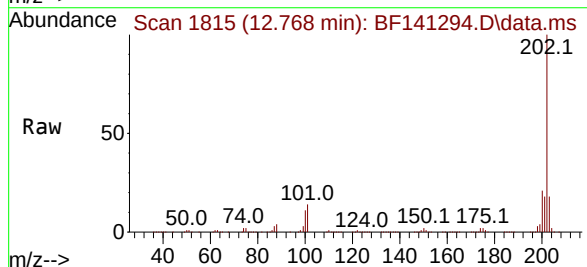
Tgt Ion:202 Resp: 914205

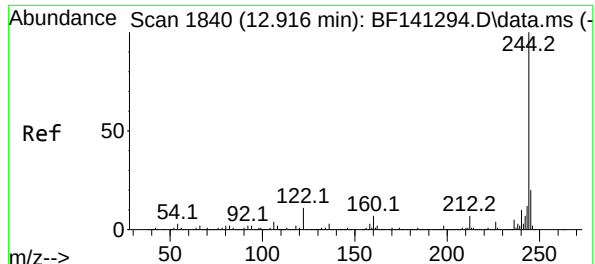
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.9 14.3 21.5





#79

Terphenyl-d14

Concen: 72.802 ng

RT: 12.916 min Scan# 1840

Delta R.T. 0.000 min

Lab File: BF141294.D

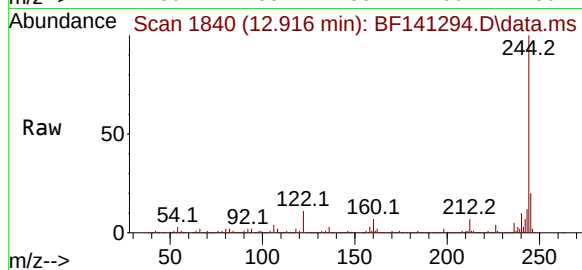
Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040



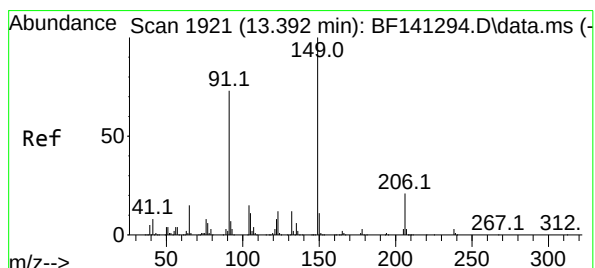
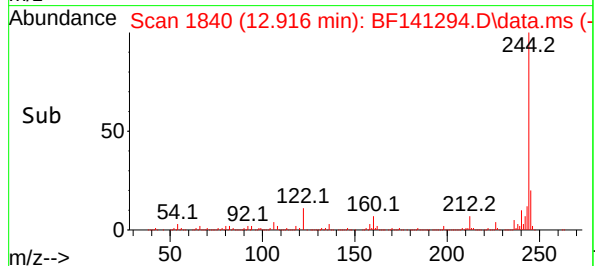
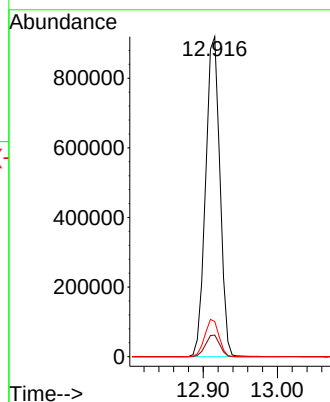
Tgt Ion:244 Resp: 1232977

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

122 11.0 8.8 13.2



#80

Butylbenzylphthalate

Concen: 37.532 ng

RT: 13.392 min Scan# 1921

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

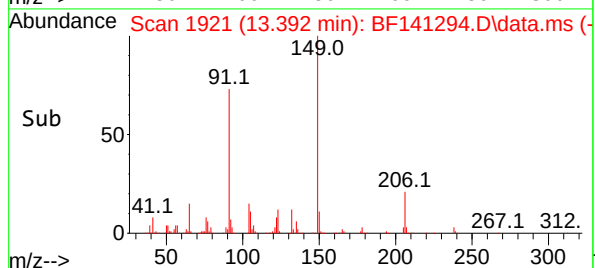
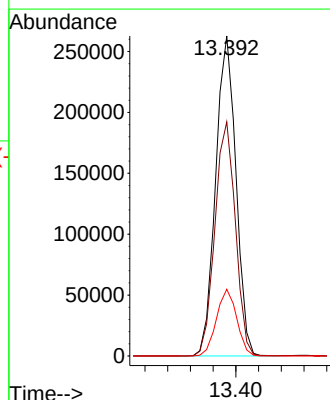
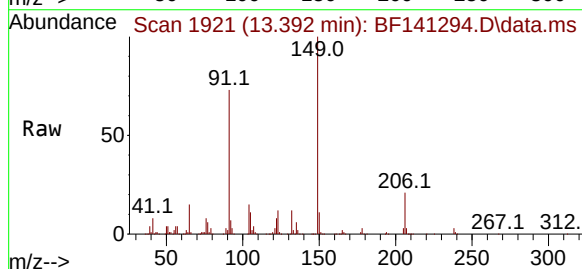
Tgt Ion:149 Resp: 326158

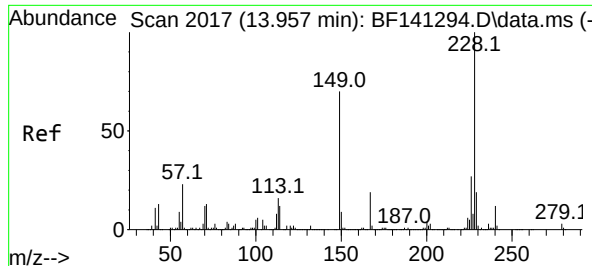
Ion Ratio Lower Upper

149 100

91 73.2 58.6 87.8

206 20.9 16.7 25.1





#81

Benzo(a)anthracene

Concen: 37.062 ng

RT: 13.957 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

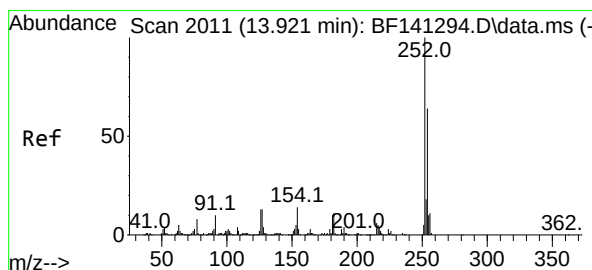
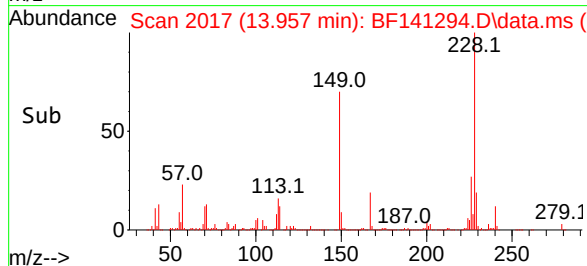
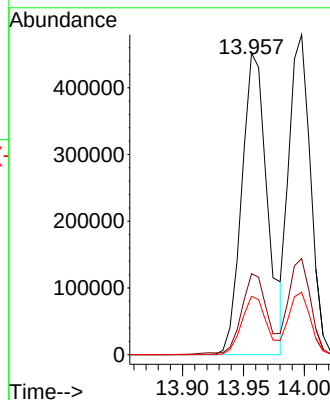
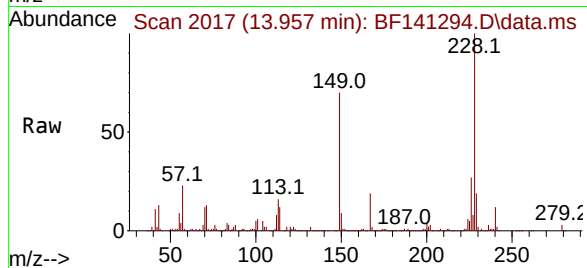
Tgt Ion:228 Resp: 661997

Ion Ratio Lower Upper

228 100

226 26.8 21.4 32.2

229 19.4 15.5 23.3



#82

3,3'-Dichlorobenzidine

Concen: 38.953 ng

RT: 13.921 min Scan# 2011

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

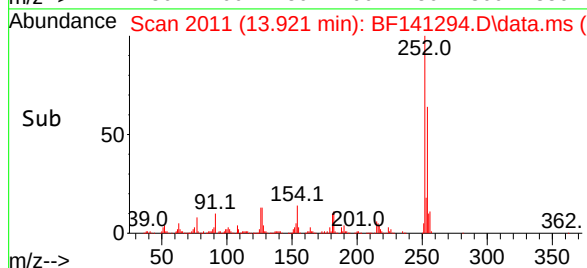
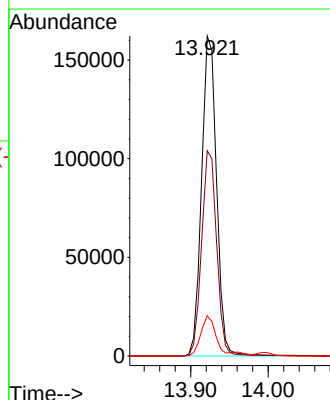
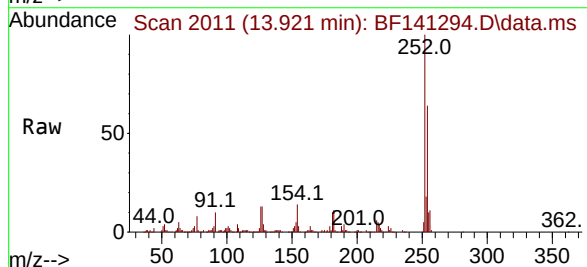
Tgt Ion:252 Resp: 217856

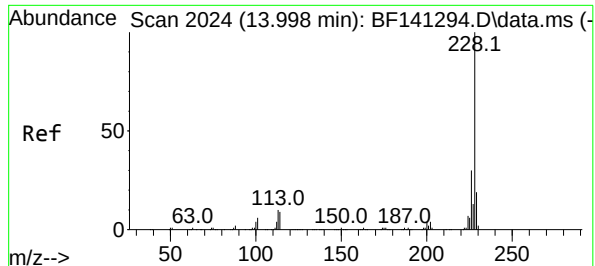
Ion Ratio Lower Upper

252 100

254 64.1 51.3 76.9

126 12.5 10.0 15.0





#83

Chrysene

Concen: 35.738 ng

RT: 13.998 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

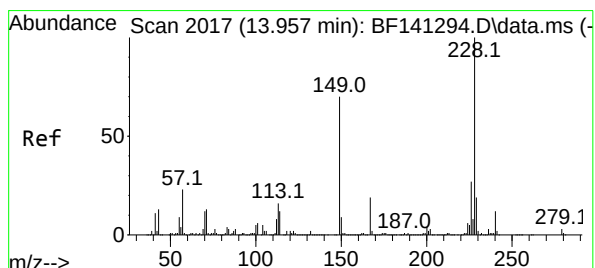
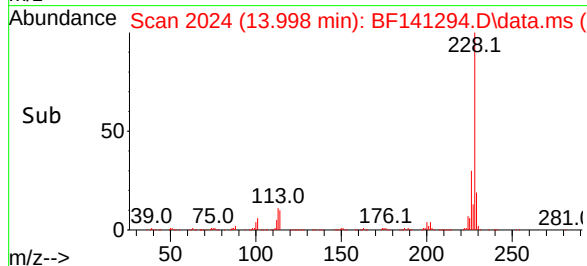
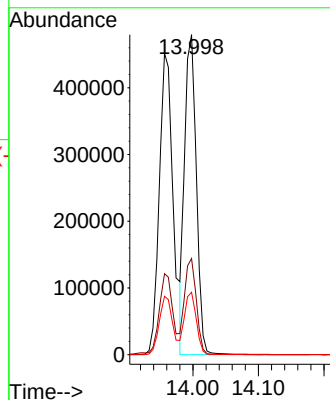
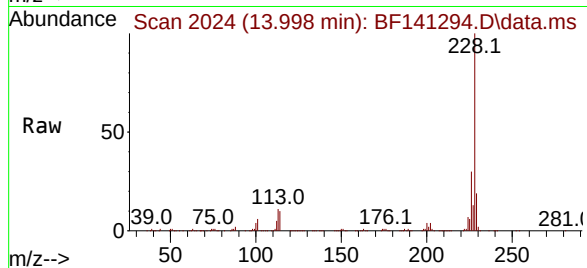
Tgt Ion:228 Resp: 591939

Ion Ratio Lower Upper

228 100

226 30.1 24.1 36.1

229 19.5 15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 37.540 ng

RT: 13.957 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

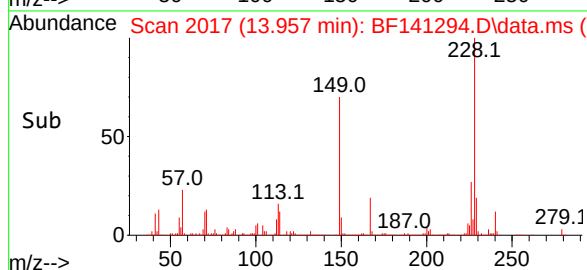
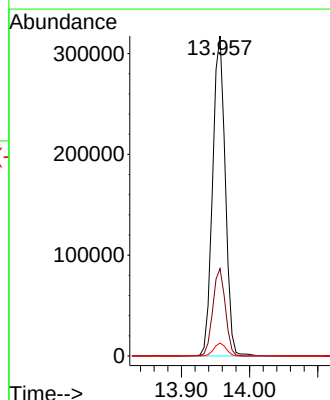
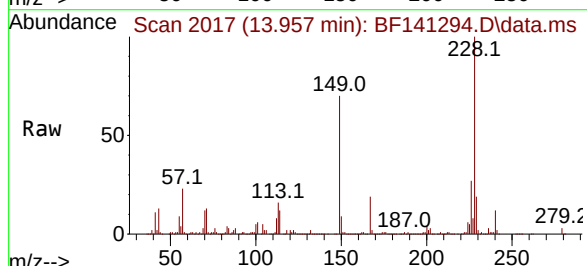
Tgt Ion:149 Resp: 409365

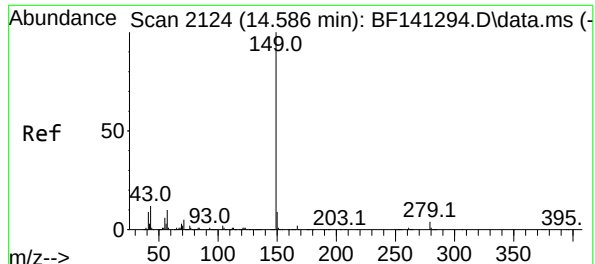
Ion Ratio Lower Upper

149 100

167 27.3 21.8 32.8

279 4.1 3.3 4.9

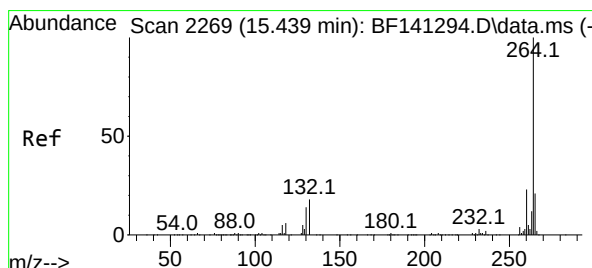
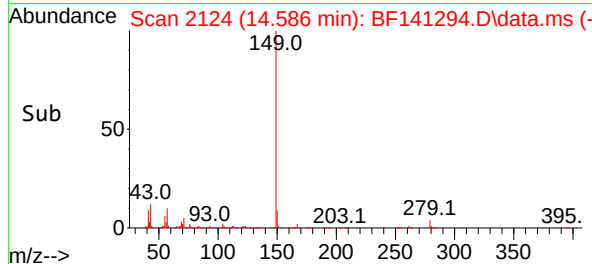
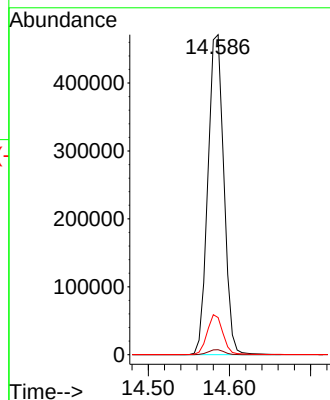
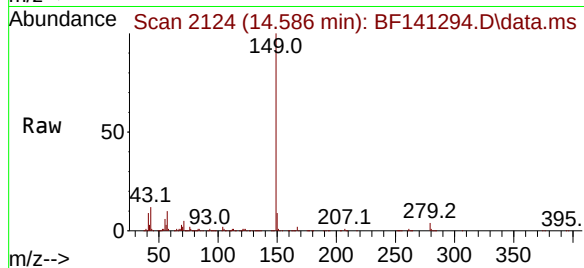




#85
Di-n-octyl phthalate
Concen: 37.578 ng
RT: 14.586 min Scan# 2124
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

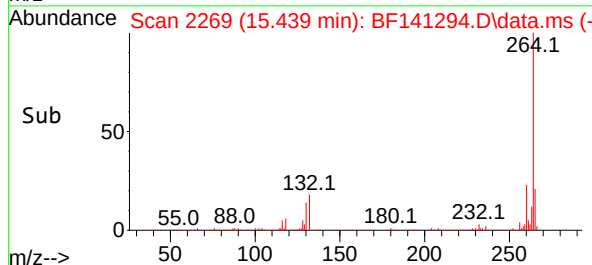
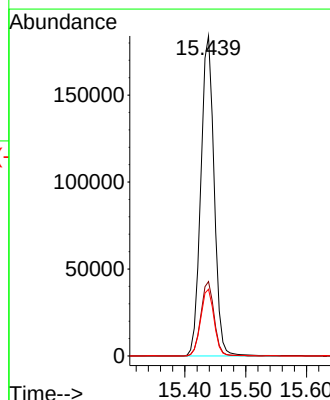
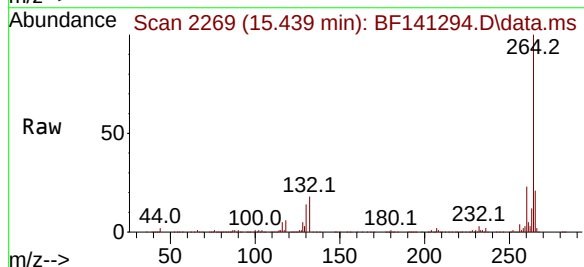
Instrument :
BNA_F
ClientSampleId :
SSTDICCC040

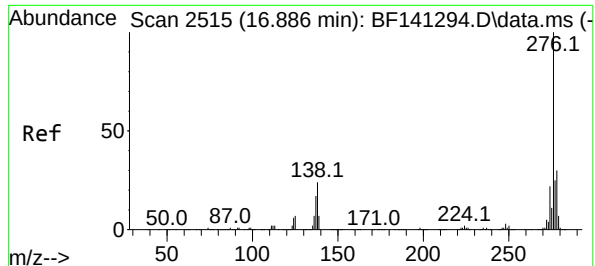
Tgt Ion:149 Resp: 640977
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 12.3 9.8 14.8



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.439 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BF141294.D
Acq: 29 Jan 2025 15:45

Tgt Ion:264 Resp: 279417
Ion Ratio Lower Upper
264 100
260 23.2 18.6 27.8
265 20.9 16.7 25.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 38.503 ng

RT: 16.886 min Scan# 2115

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

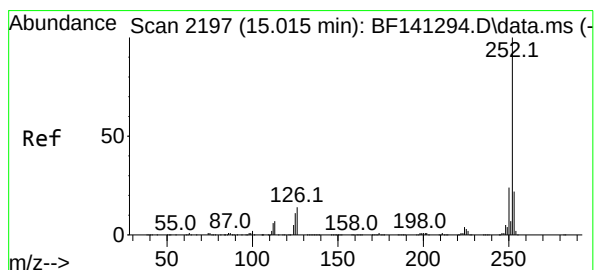
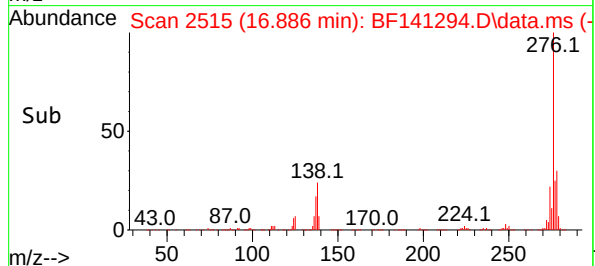
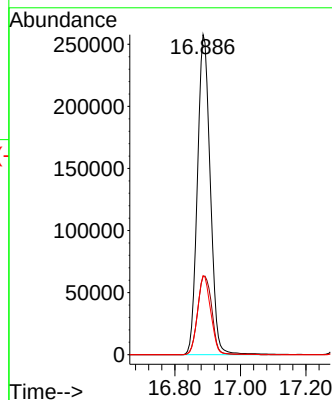
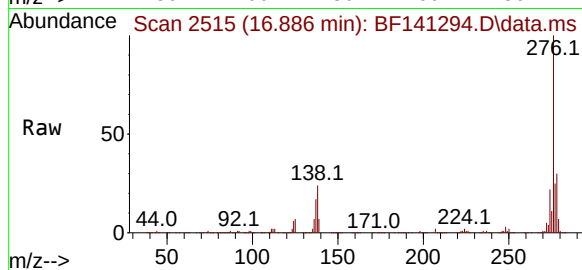
Tgt Ion:276 Resp: 702692

Ion Ratio Lower Upper

276 100

138 27.1 21.7 32.5

277 25.4 20.3 30.5



#88

Benzo(b)fluoranthene

Concen: 36.061 ng

RT: 15.015 min Scan# 2197

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

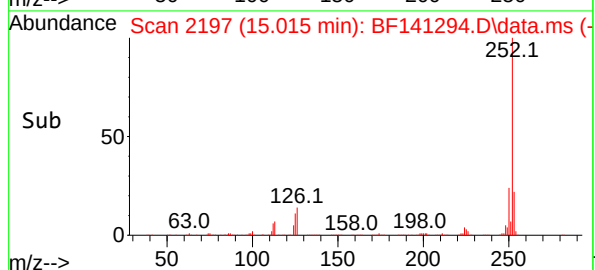
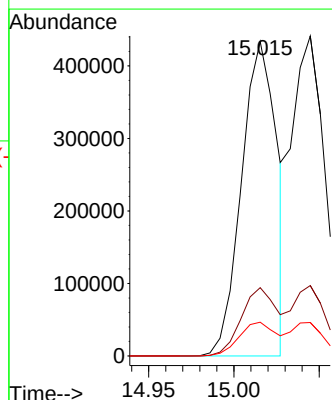
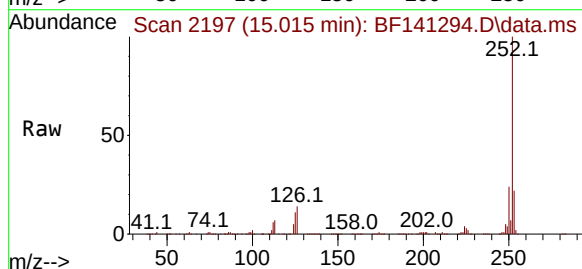
Tgt Ion:252 Resp: 625758

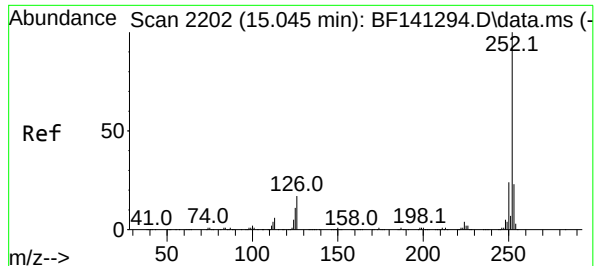
Ion Ratio Lower Upper

252 100

253 21.8 17.4 26.2

125 10.7 8.6 12.8





#89

Benzo(k)fluoranthene

Concen: 38.959 ng

RT: 15.045 min Scan# 2202

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

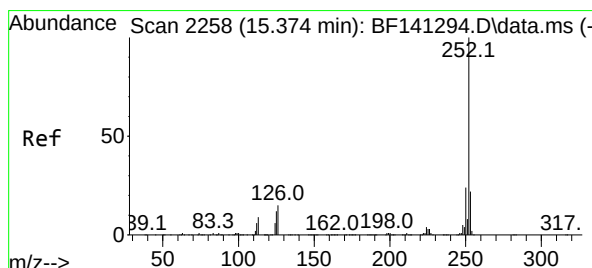
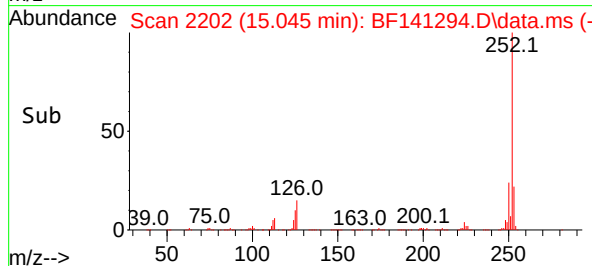
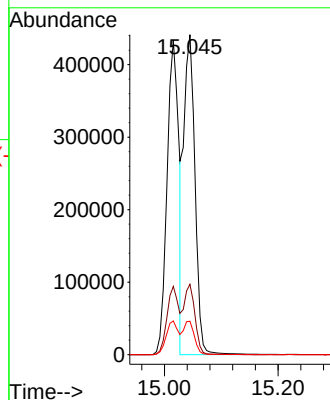
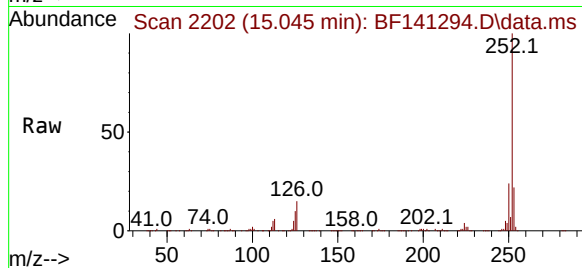
Tgt Ion:252 Resp: 605401

Ion Ratio Lower Upper

252 100

253 22.0 17.6 26.4

125 10.5 8.4 12.6



#90

Benzo(a)pyrene

Concen: 38.096 ng

RT: 15.374 min Scan# 2258

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

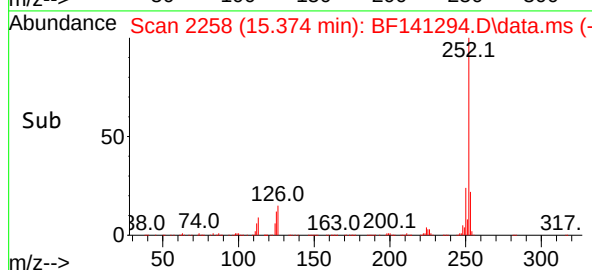
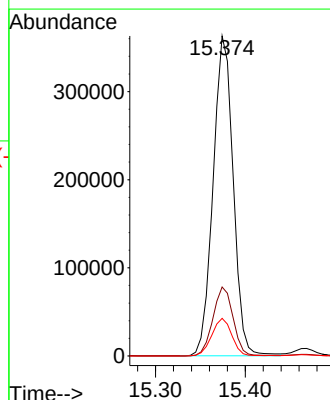
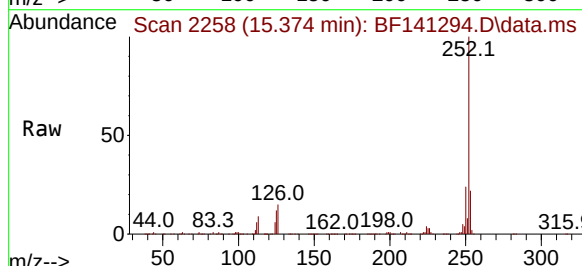
Tgt Ion:252 Resp: 564975

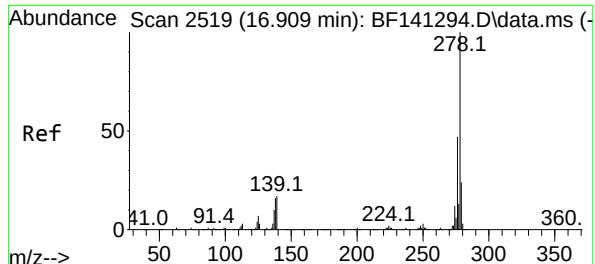
Ion Ratio Lower Upper

252 100

253 21.5 17.2 25.8

125 11.8 9.4 14.2





#91

Dibenzo(a,h)anthracene

Concen: 38.812 ng

RT: 16.909 min Scan# 2519

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

Instrument :

BNA_F

ClientSampleId :

SSTDICCC040

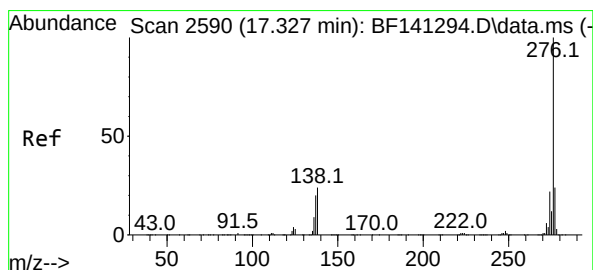
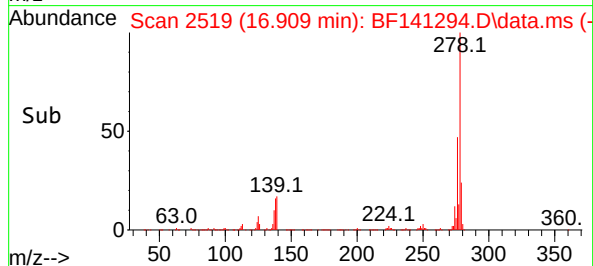
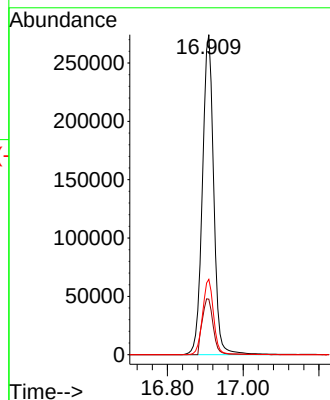
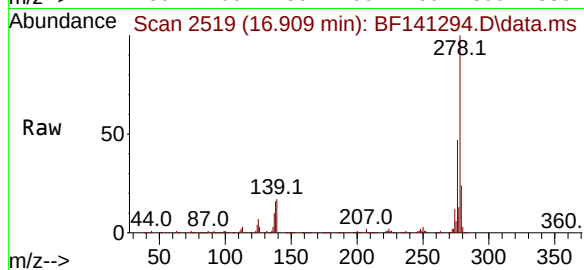
Tgt Ion:278 Resp: 567762

Ion Ratio Lower Upper

278 100

139 17.4 13.9 20.9

279 23.5 18.8 28.2



#92

Benzo(g,h,i)perylene

Concen: 37.870 ng

RT: 17.327 min Scan# 2590

Delta R.T. 0.000 min

Lab File: BF141294.D

Acq: 29 Jan 2025 15:45

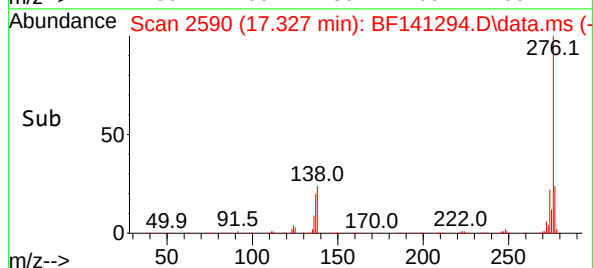
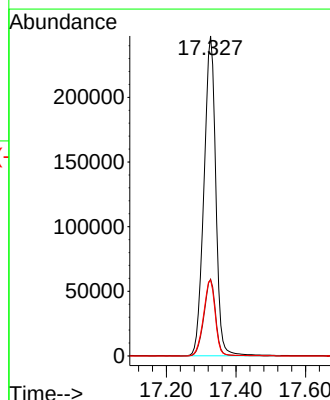
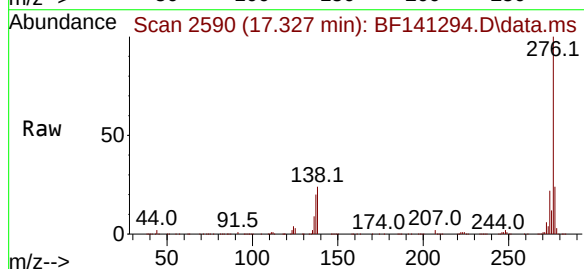
Tgt Ion:276 Resp: 582768

Ion Ratio Lower Upper

276 100

277 24.0 19.2 28.8

138 23.7 19.0 28.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
 Data File : BF141295.D
 Acq On : 29 Jan 2025 16:11
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 17:01:11 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 16:24:35 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	130633	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	511843	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	269662	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	442506	20.000	ng	0.00
76) Chrysene-d12	13.968	240	226571	20.000	ng	0.00
86) Perylene-d12	15.439	264	272084	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	827672	97.984	ng	0.00
7) Phenol-d6	6.428	99	1052381	97.751	ng	0.00
23) Nitrobenzene-d5	7.369	82	955368	98.761	ng	0.00
42) 2,4,6-Tribromophenol	10.627	330	235884	95.997	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	1620825	92.721	ng	0.00
79) Terphenyl-d14	12.916	244	1402103	95.222	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.493	88	187460	49.995	ng	98
3) Pyridine	3.222	79	455306	50.773	ng	100
4) n-Nitrosodimethylamine	3.181	42	262086	51.033	ng	100
6) Aniline	6.463	93	458390	50.942	ng	97
8) 2-Chlorophenol	6.587	128	441862	48.707	ng	98
9) Benzaldehyde	6.351	77	281326	44.996	ng	98
10) Phenol	6.445	94	553844	48.628	ng	95
11) bis(2-Chloroethyl)ether	6.539	93	424248	48.433	ng	98
12) 1,3-Dichlorobenzene	6.739	146	489386	48.913	ng	100
13) 1,4-Dichlorobenzene	6.816	146	490392	48.671	ng	99
14) 1,2-Dichlorobenzene	6.975	146	454569	48.279	ng	99
15) Benzyl Alcohol	6.939	79	371274	50.480	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.081	45	749938	49.280	ng	99
17) 2-Methylphenol	7.051	107	361469	49.214	ng	99
18) Hexachloroethane	7.310	117	182933	49.073	ng	99
19) n-Nitroso-di-n-propyla...	7.216	70	305749	47.753	ng	98
20) 3+4-Methylphenols	7.210	107	434743	48.143	ng	94
22) Acetophenone	7.210	105	574700	47.365	ng	# 97
24) Nitrobenzene	7.386	77	492082	49.046	ng	98
25) Isophorone	7.622	82	818496	48.959	ng	99
26) 2-Nitrophenol	7.698	139	242228	51.545	ng	99
27) 2,4-Dimethylphenol	7.734	122	300079m	49.969	ng	
28) bis(2-Chloroethoxy)met...	7.833	93	518825	48.701	ng	99
29) 2,4-Dichlorophenol	7.939	162	363275	49.507	ng	100
30) 1,2,4-Trichlorobenzene	8.022	180	406562	48.309	ng	100
31) Naphthalene	8.104	128	1304758	48.468	ng	100
32) Benzoic acid	7.857	122	308525	56.571	ng	99
33) 4-Chloroaniline	8.151	127	449543	49.712	ng	100
34) Hexachlorobutadiene	8.222	225	243308	49.395	ng	99
35) Caprolactam	8.528	113	120078	50.594	ng	97
36) 4-Chloro-3-methylphenol	8.633	107	385683	48.973	ng	98
37) 2-Methylnaphthalene	8.792	142	822986	48.006	ng	99
38) 1-Methylnaphthalene	8.892	142	799136	47.586	ng	100
40) 1,2,4,5-Tetrachloroben...	8.963	216	373963	48.774	ng	100
41) Hexachlorocyclopentadiene	8.945	237	122470	53.227	ng	100
43) 2,4,6-Trichlorophenol	9.069	196	252974	50.545	ng	98

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
 Data File : BF141295.D
 Acq On : 29 Jan 2025 16:11
 Operator : RC/JU
 Sample : SSTDICC050
 Misc :
 ALS Vial : 7 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 17:01:11 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 16:24:35 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	263745	48.438	ng	98
46) 1,1'-Biphenyl	9.263	154	1005774	47.808	ng	99
47) 2-Chloronaphthalene	9.286	162	781613	47.835	ng	99
48) 2-Nitroaniline	9.380	65	257199	49.907	ng	98
49) Acenaphthylene	9.698	152	1092234	47.595	ng	100
50) Dimethylphthalate	9.563	163	875569	48.419	ng	100
51) 2,6-Dinitrotoluene	9.622	165	204917	48.697	ng	98
52) Acenaphthene	9.875	154	789039	48.322	ng	100
53) 3-Nitroaniline	9.792	138	197832	47.528	ng	99
54) 2,4-Dinitrophenol	9.898	184	105313	53.096	ng	96
55) Dibenzofuran	10.045	168	1028182	47.082	ng	100
56) 4-Nitrophenol	9.951	139	155594	52.067	ng	99
57) 2,4-Dinitrotoluene	10.027	165	264325	48.700	ng	97
58) Fluorene	10.386	166	784644	46.215	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.163	232	205508	47.772	ng	98
60) Diethylphthalate	10.263	149	834803	47.668	ng	99
61) 4-Chlorophenyl-phenyle...	10.380	204	380948	45.976	ng	99
62) 4-Nitroaniline	10.404	138	198241	49.579	ng	98
63) Azobenzene	10.539	77	841797	47.955	ng	100
65) 4,6-Dinitro-2-methylph...	10.433	198	144574	54.710	ng	97
66) n-Nitrosodiphenylamine	10.498	169	688202	47.968	ng	100
67) 4-Bromophenyl-phenylether	10.869	248	241123	48.745	ng	99
68) Hexachlorobenzene	10.933	284	253174	48.250	ng	100
69) Atrazine	11.027	200	237991	49.457	ng	98
70) Pentachlorophenol	11.127	266	161568	52.515	ng	99
71) Phenanthrene	11.351	178	1114920	46.903	ng	99
72) Anthracene	11.404	178	1105681	47.686	ng	100
73) Carbazole	11.557	167	971542	47.304	ng	99
74) Di-n-butylphthalate	11.892	149	1162607	46.961	ng	100
75) Fluoranthene	12.539	202	1065514	45.923	ng	100
77) Benzidine	12.663	184	513358	74.515	ng	99
78) Pyrene	12.768	202	1059044	48.410	ng	99
80) Butylbenzylphthalate	13.392	149	371889	49.222	ng	99
81) Benzo(a)anthracene	13.963	228	778922	50.158	ng	100
82) 3,3'-Dichlorobenzidine	13.921	252	270572	55.645	ng	99
83) Chrysene	13.998	228	717569	49.829	ng	99
84) Bis(2-ethylhexyl)phtha...	13.957	149	470441	49.620	ng	99
85) Di-n-octyl phthalate	14.586	149	773037	52.127	ng	100
87) Indeno(1,2,3-cd)pyrene	16.892	276	916714	51.584	ng	100
88) Benzo(b)fluoranthene	15.015	252	860351	50.916	ng	100
89) Benzo(k)fluoranthene	15.045	252	713500	47.153	ng	99
90) Benzo(a)pyrene	15.380	252	721834	49.985	ng	100
91) Dibenzo(a,h)anthracene	16.915	278	739397	51.907	ng	100
92) Benzo(g,h,i)perylene	17.333	276	764064	50.990	ng	99

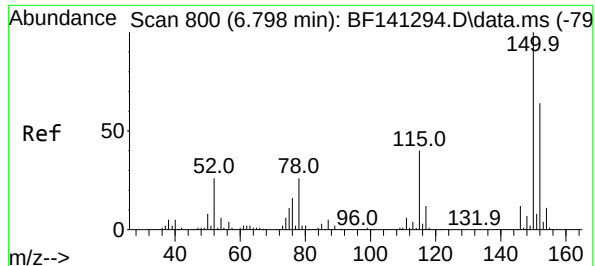
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Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Manual Integrations

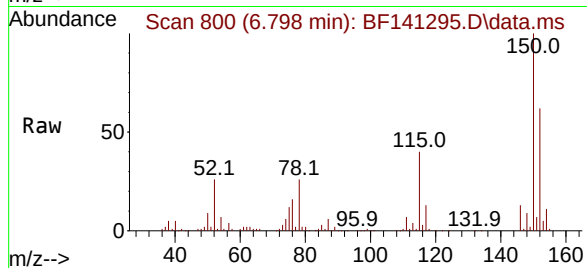
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

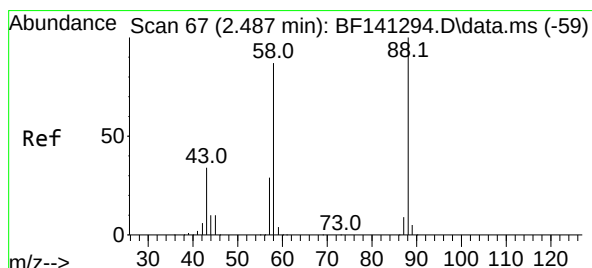
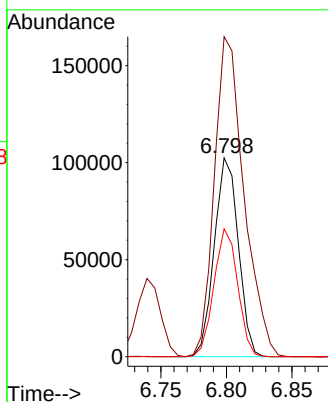
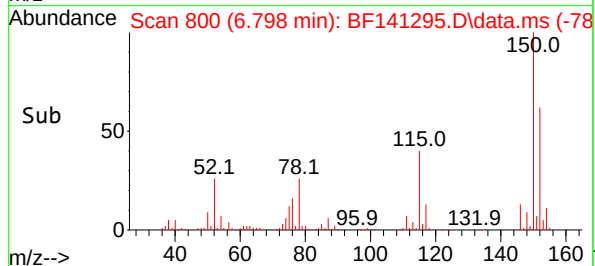
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion:152 Resp: 13063
Ion Ratio Lower Upper
152 100
150 160.9 125.9 188.9
115 64.3 49.7 74.5

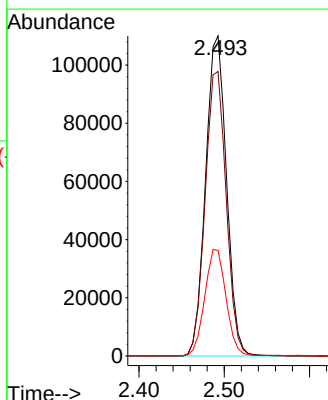
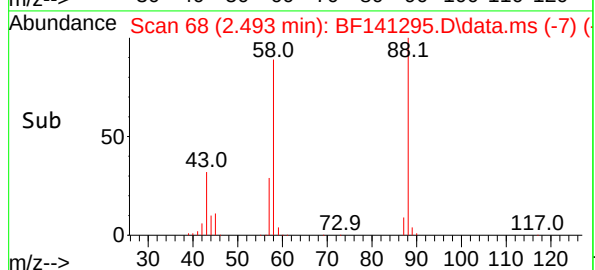
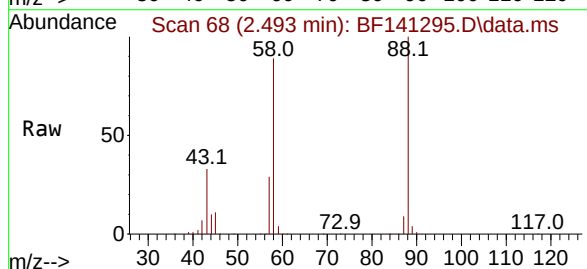
Manual Integrations
APPROVED

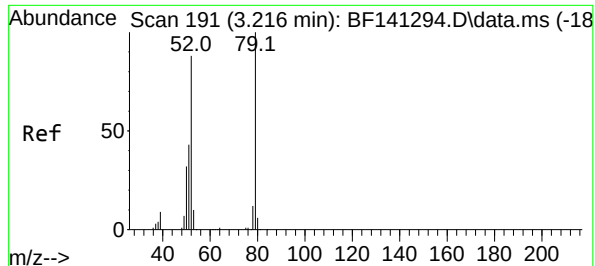
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#2
1,4-Dioxane
Concen: 49.995 ng
RT: 2.493 min Scan# 68
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

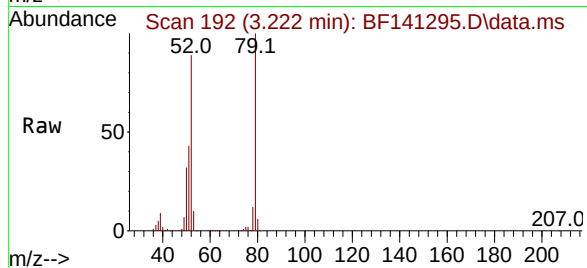
Tgt Ion: 88 Resp: 187460
Ion Ratio Lower Upper
88 100
58 89.8 70.2 105.4
43 33.5 27.6 41.4





#3
Pyridine
Concen: 50.773 ng
RT: 3.222 min Scan# 191
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

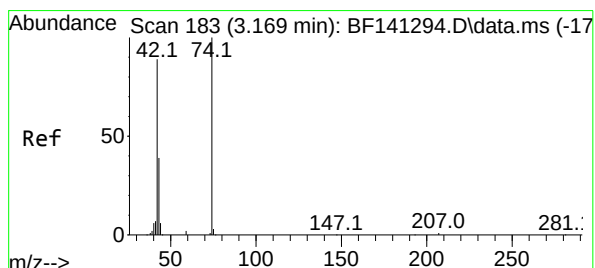
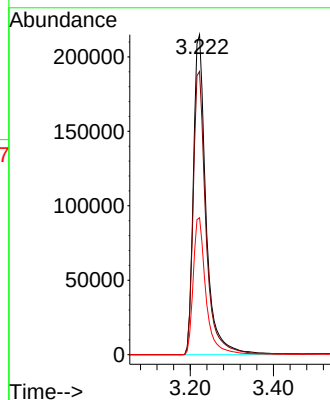
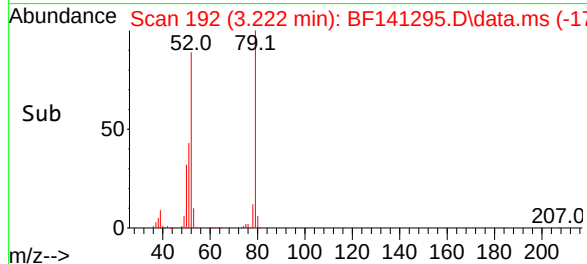
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



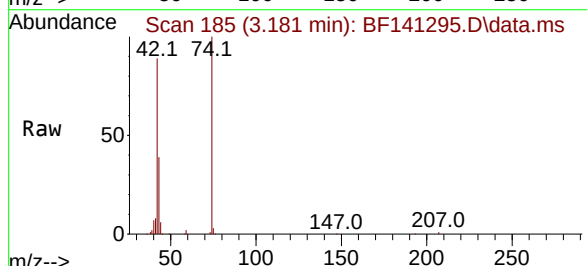
Tgt Ion: 79 Resp: 455300
Ion Ratio Lower Upper
79 100
52 88.5 70.3 105.5
51 42.8 34.3 51.5

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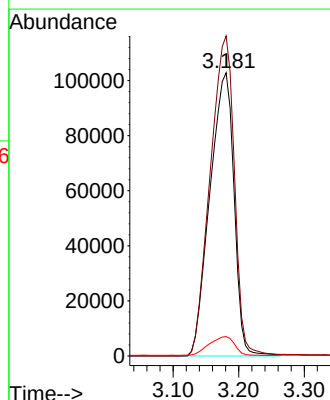
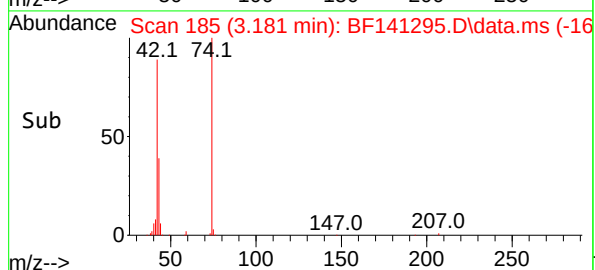
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

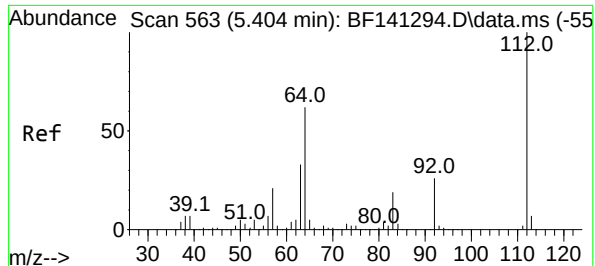


#4
n-Nitrosodimethylamine
Concen: 51.033 ng
RT: 3.181 min Scan# 185
Delta R.T. 0.012 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11



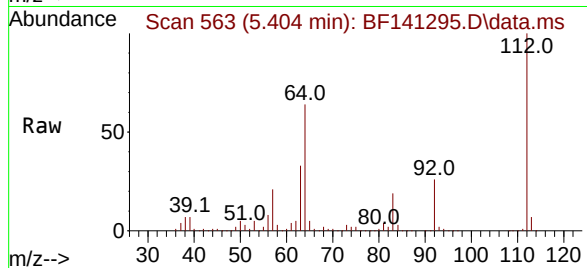
Tgt Ion: 42 Resp: 262086
Ion Ratio Lower Upper
42 100
74 113.0 90.3 135.5
44 6.8 5.7 8.5





#5
2-Fluorophenol
Concen: 97.984 ng
RT: 5.404 min Scan# 50
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

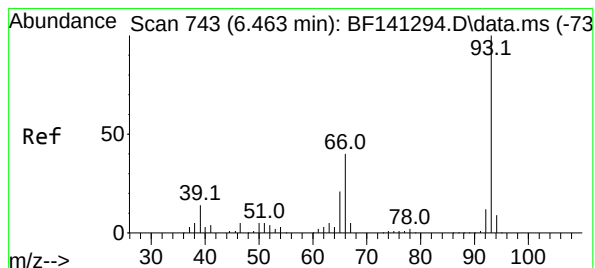
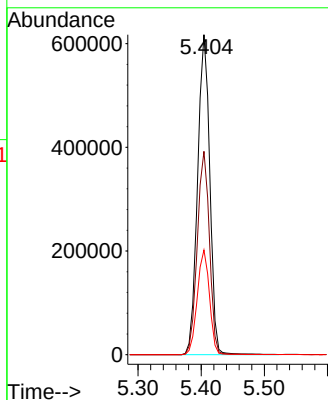
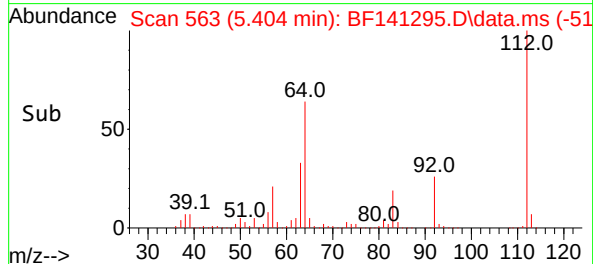
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion: 112 Resp: 827672
Ion Ratio Lower Upper
112 100
64 63.5 49.8 74.8
63 32.7 26.1 39.1

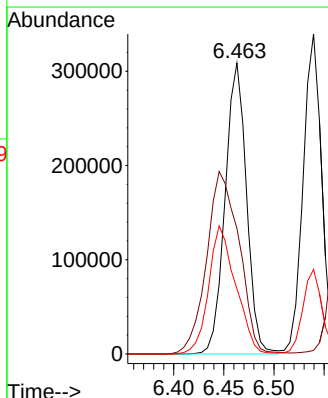
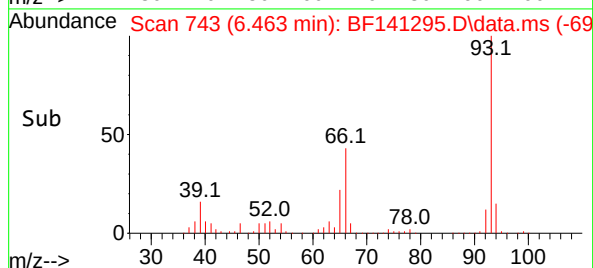
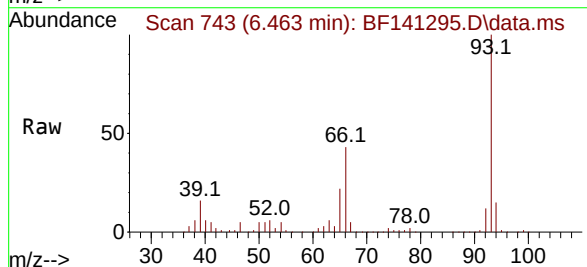
Manual Integrations
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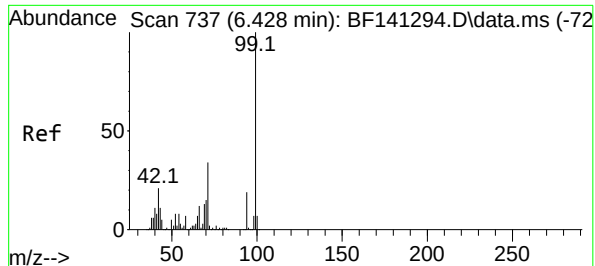
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#6
Aniline
Concen: 50.942 ng
RT: 6.463 min Scan# 743
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

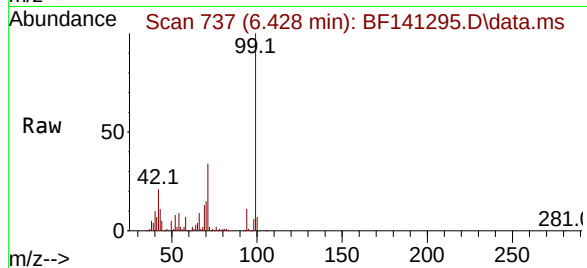
Tgt Ion: 93 Resp: 458390
Ion Ratio Lower Upper
93 100
66 43.2 32.5 48.7
65 22.4 17.0 25.6





#7
Phenol-d6
Concen: 97.751 ng
RT: 6.428 min Scan# 71
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

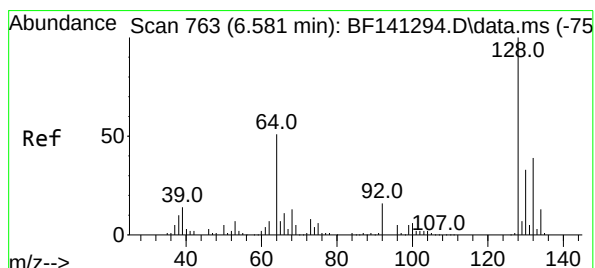
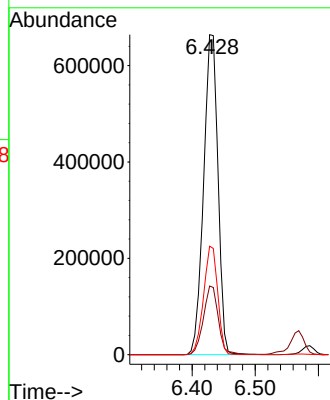
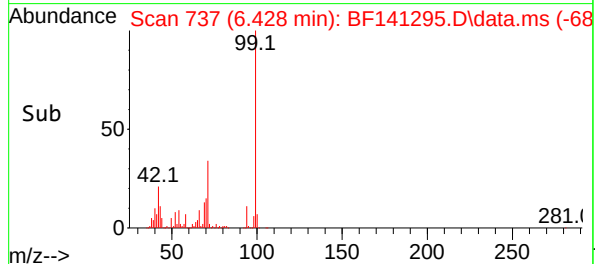
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion: 99 Resp: 105238
Ion Ratio Lower Upper
99 100
42 21.4 17.1 25.7
71 33.9 26.9 40.3

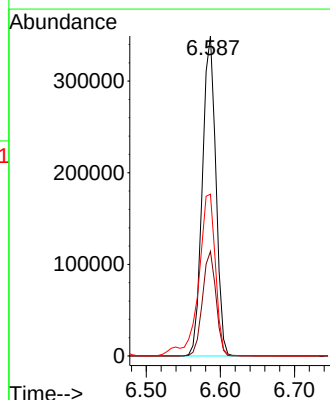
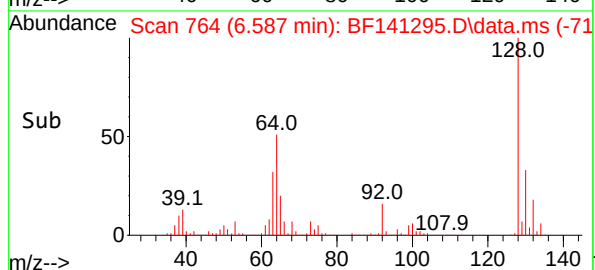
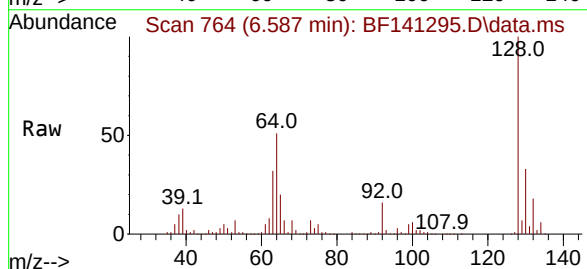
Manual Integrations
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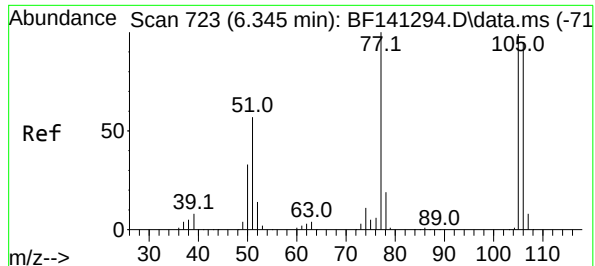
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#8
2-Chlorophenol
Concen: 48.707 ng
RT: 6.587 min Scan# 764
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:128 Resp: 441862
Ion Ratio Lower Upper
128 100
130 32.7 12.5 52.5
64 50.5 32.9 72.9





#9

Benzaldehyde

Concen: 44.996 ng

RT: 6.351 min Scan# 71

Delta R.T. 0.006 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Tgt Ion: 77 Resp: 281320

Ion Ratio Lower Upper

77 100

105 100.8 79.4 119.4

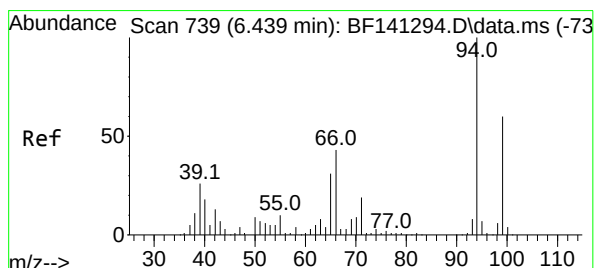
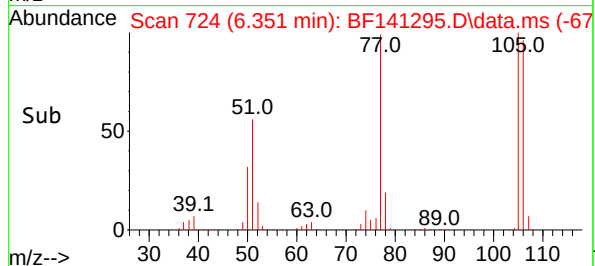
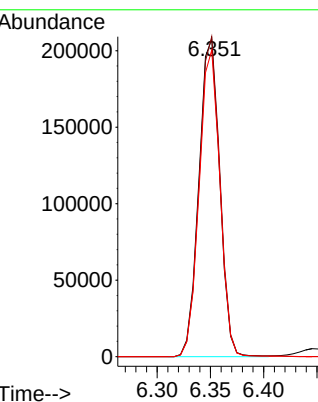
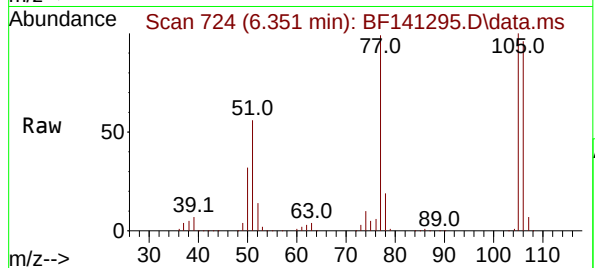
106 96.5 74.6 114.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#10

Phenol

Concen: 48.628 ng

RT: 6.445 min Scan# 740

Delta R.T. 0.006 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

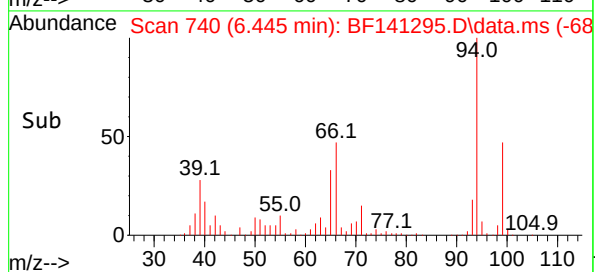
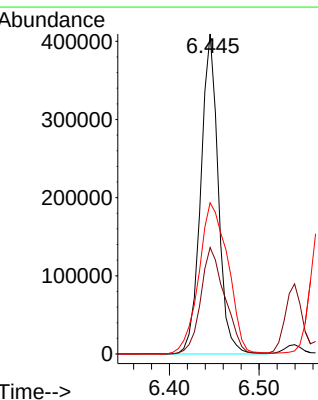
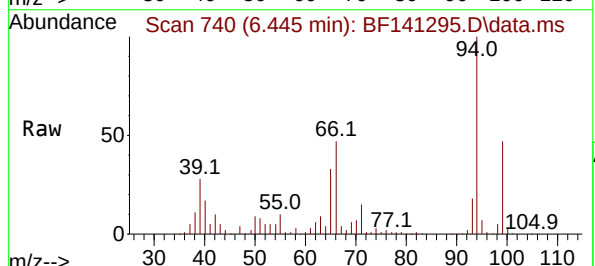
Tgt Ion: 94 Resp: 553844

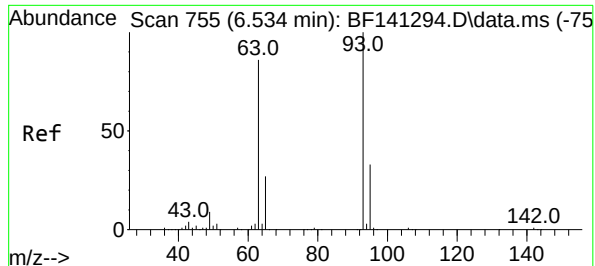
Ion Ratio Lower Upper

94 100

65 33.2 10.8 50.8

66 47.3 23.3 63.3





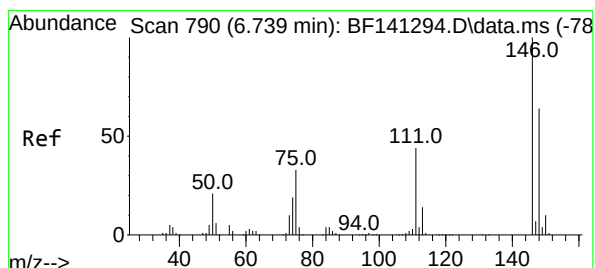
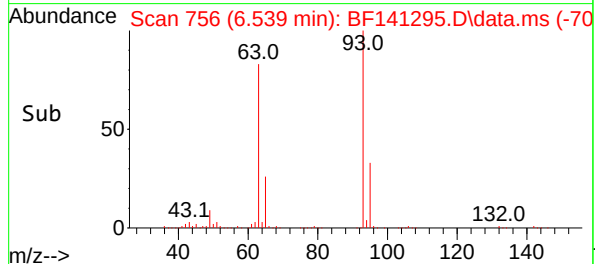
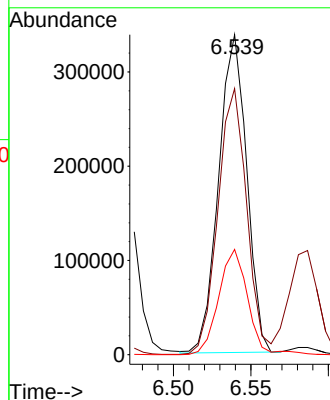
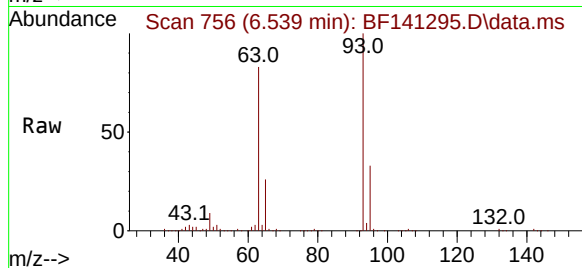
#11
bis(2-Chloroethyl)ether
Concen: 48.433 ng
RT: 6.539 min Scan# 755
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion: 93 Resp: 424244
Ion Ratio Lower Upper
93 100
63 83.2 65.0 105.0
95 32.9 12.4 52.4

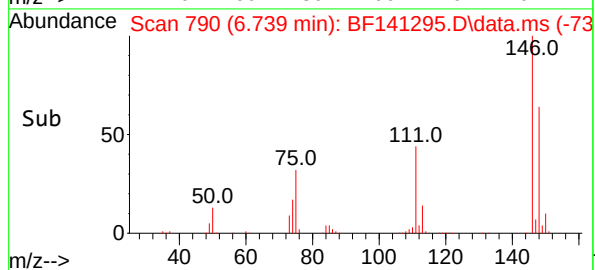
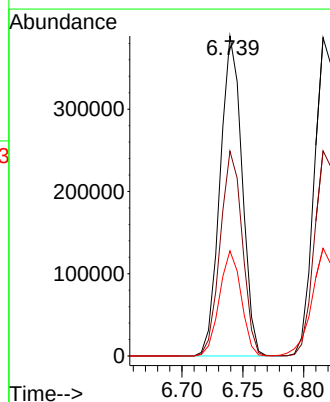
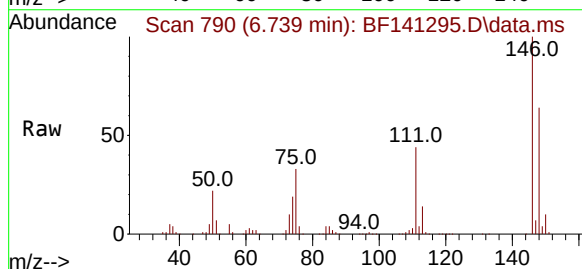
Manual Integrations
APPROVED

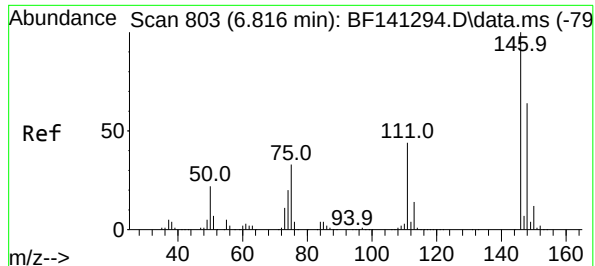
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#12
1,3-Dichlorobenzene
Concen: 48.913 ng
RT: 6.739 min Scan# 790
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:146 Resp: 489386
Ion Ratio Lower Upper
146 100
148 64.0 51.2 76.8
75 32.9 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 48.671 ng

RT: 6.816 min Scan# 803

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDIC050

Tgt Ion:146 Resp: 490392

Ion Ratio Lower Upper

146 100

148 64.4 51.2 76.8

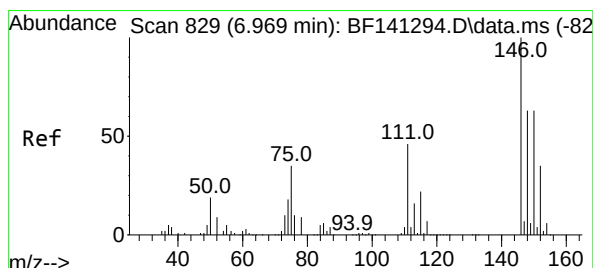
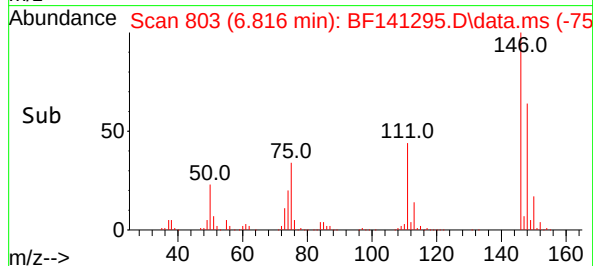
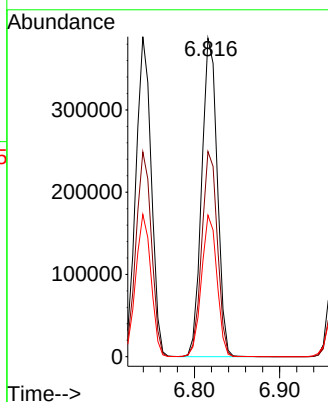
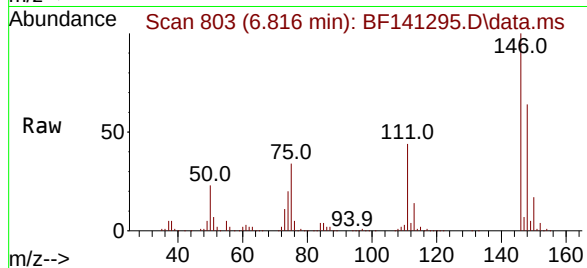
111 44.4 35.0 52.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#14

1,2-Dichlorobenzene

Concen: 48.279 ng

RT: 6.975 min Scan# 830

Delta R.T. 0.006 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

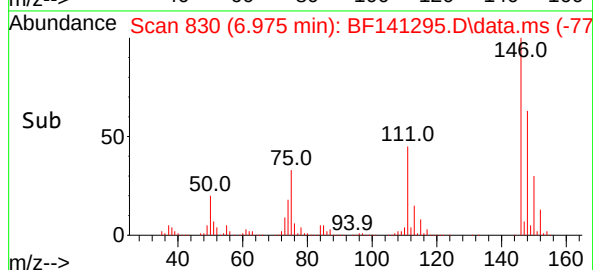
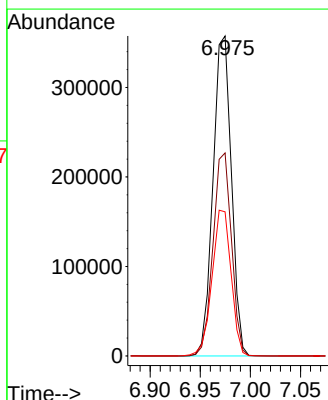
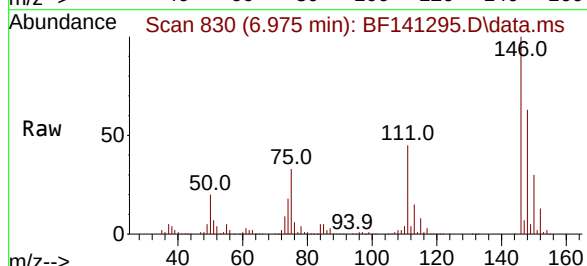
Tgt Ion:146 Resp: 454569

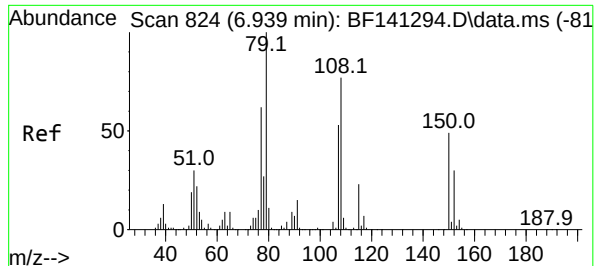
Ion Ratio Lower Upper

146 100

148 63.4 50.5 75.7

111 45.1 36.6 55.0





#15

Benzyl Alcohol

Concen: 50.480 ng

RT: 6.939 min Scan# 81

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Tgt Ion: 79 Resp: 371274

Ion Ratio Lower Upper

79 100

108 76.2 61.4 92.0

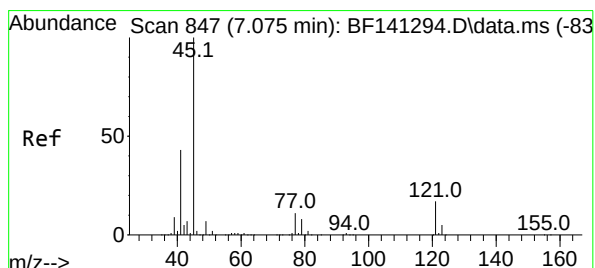
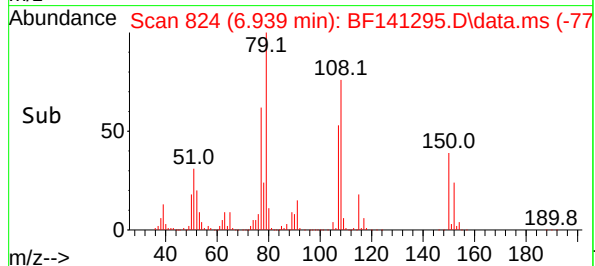
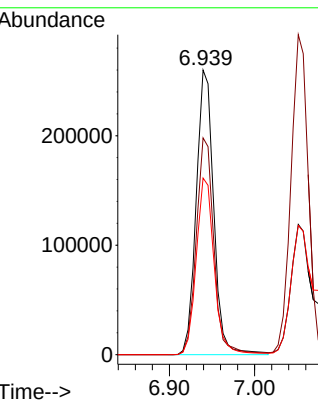
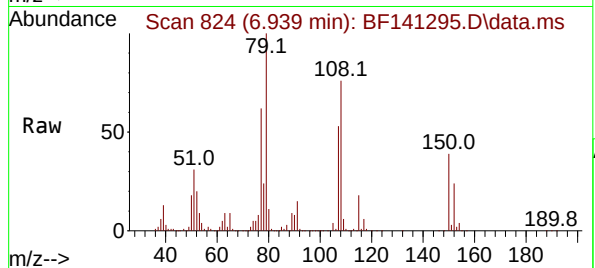
77 62.1 49.9 74.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 49.280 ng

RT: 7.081 min Scan# 848

Delta R.T. 0.006 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

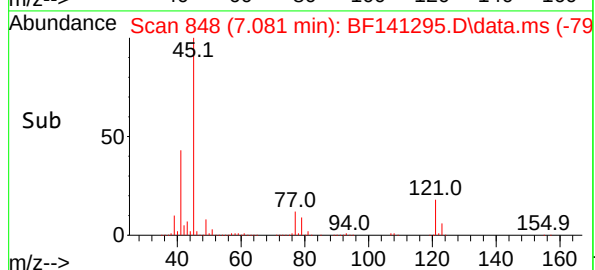
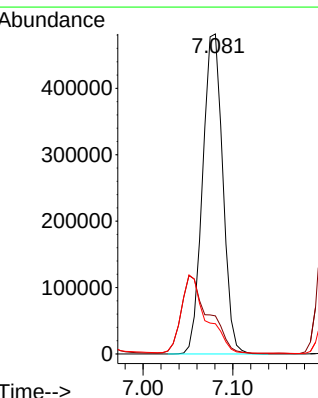
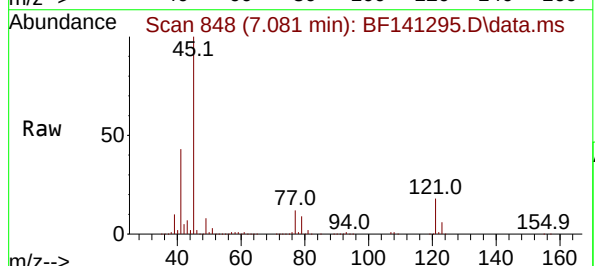
Tgt Ion: 45 Resp: 749938

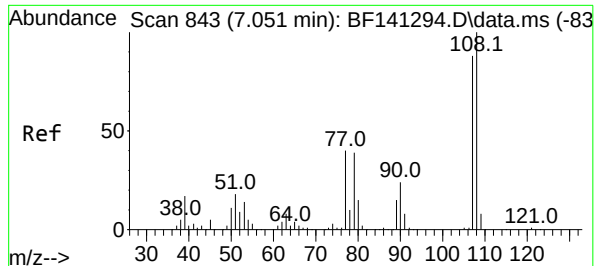
Ion Ratio Lower Upper

45 100

77 11.9 0.0 31.8

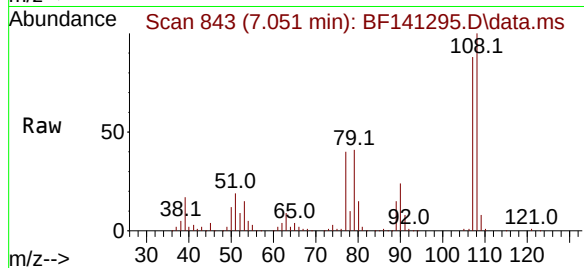
79 9.5 0.0 29.1





#17
2-Methylphenol
Concen: 49.214 ng
RT: 7.051 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

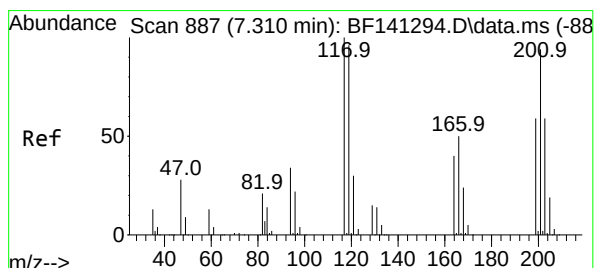
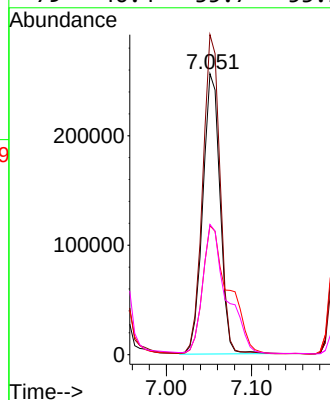
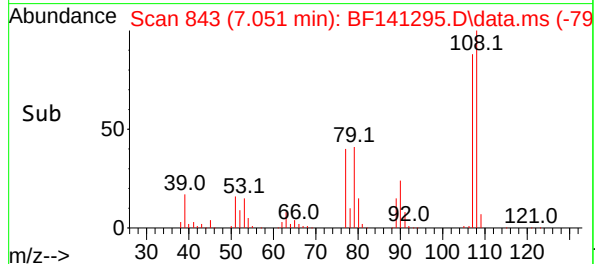
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion:107 Resp: 361469
Ion Ratio Lower Upper
107 100
108 113.9 90.8 136.2
77 46.0 36.2 54.4
79 46.4 35.7 53.5

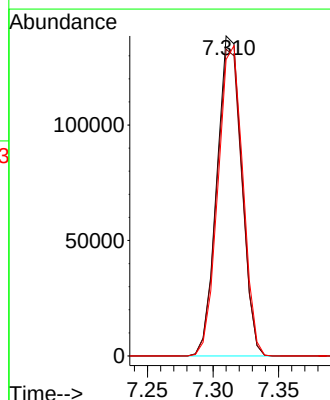
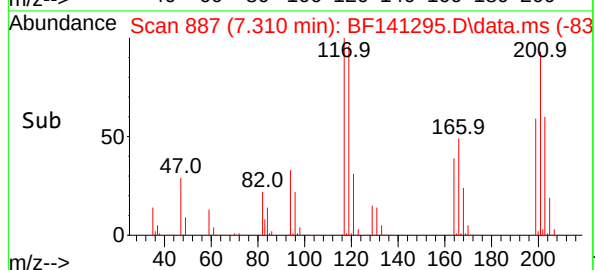
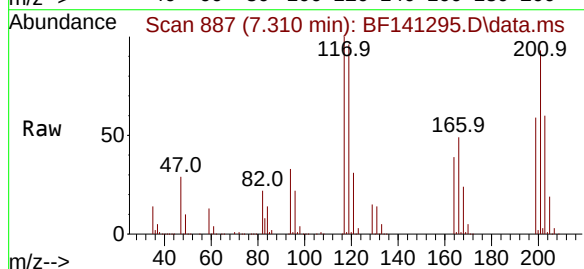
Manual Integrations
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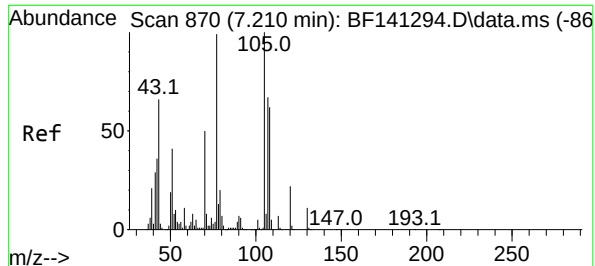
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#18
Hexachloroethane
Concen: 49.073 ng
RT: 7.310 min Scan# 887
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:117 Resp: 182933
Ion Ratio Lower Upper
117 100
119 95.8 76.6 114.8
201 92.7 74.8 112.2





#19

n-Nitroso-di-n-propylamine

Concen: 47.753 ng

RT: 7.216 min Scan# 81

Delta R.T. 0.006 min

Lab File: BF141295.D

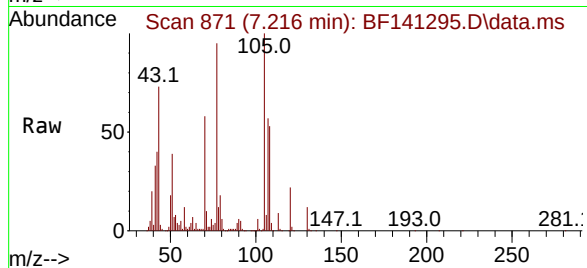
Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050



Tgt Ion: 70 Resp: 305749

Ion Ratio Lower Upper

70 100

42 69.2 56.8 85.2

101 9.7 7.7 11.5

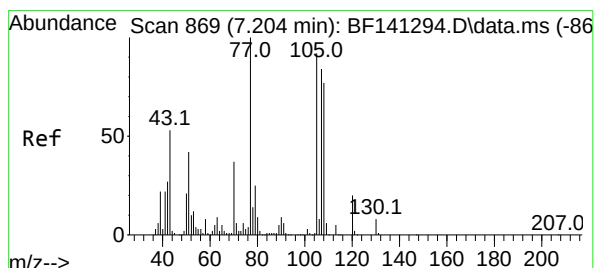
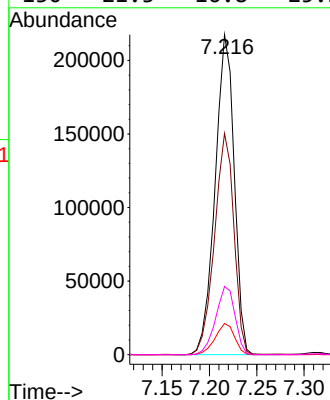
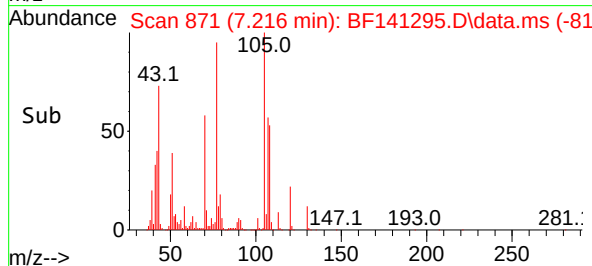
130 21.3 16.8 25.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#20

3+4-Methylphenols

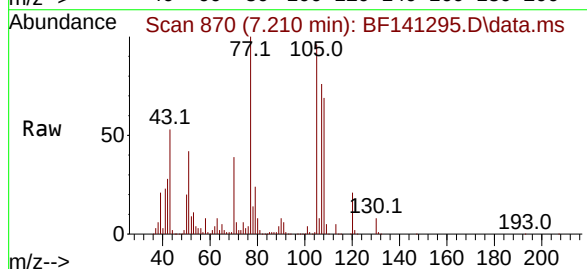
Concen: 48.143 ng

RT: 7.210 min Scan# 870

Delta R.T. 0.006 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11



Tgt Ion:107 Resp: 434743

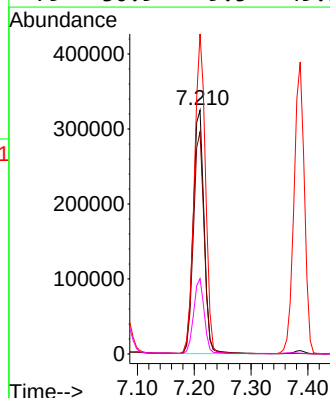
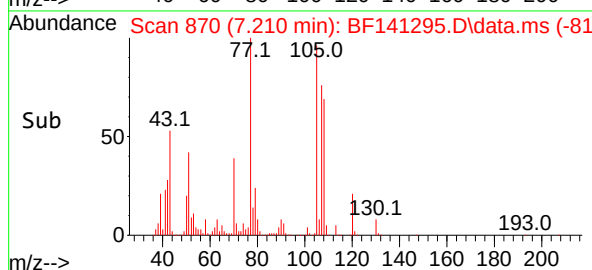
Ion Ratio Lower Upper

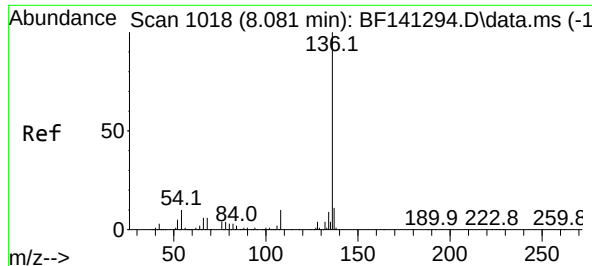
107 100

108 91.2 70.9 110.9

77 131.3 98.5 138.5

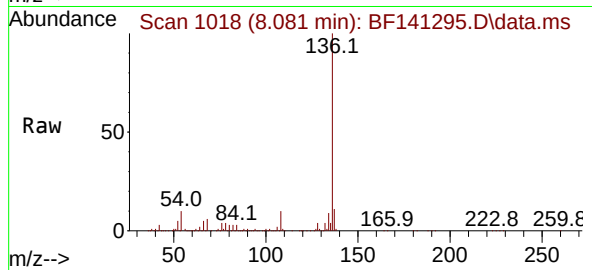
79 30.9 9.5 49.5





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1018
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

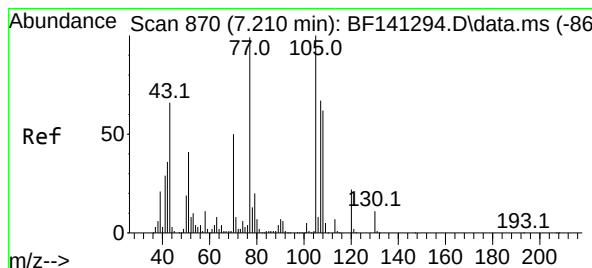
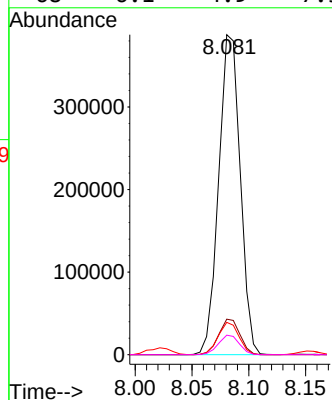
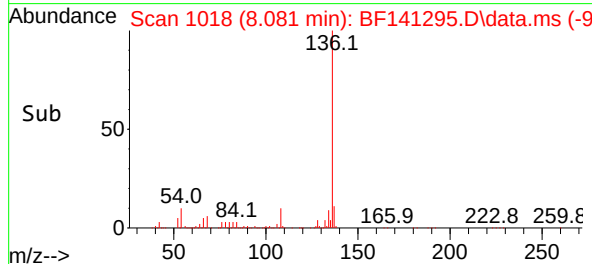
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion:136 Resp: 51184
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 10.1 7.8 11.8
68 6.1 4.9 7.3

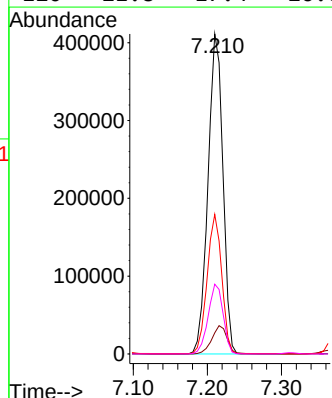
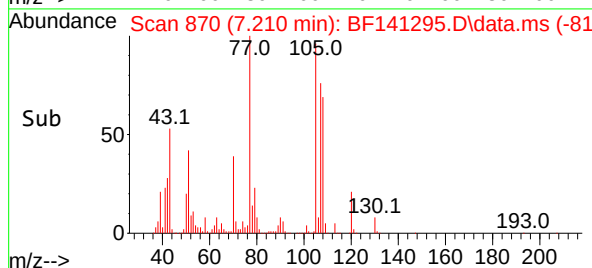
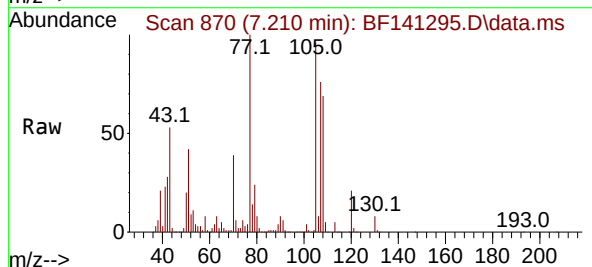
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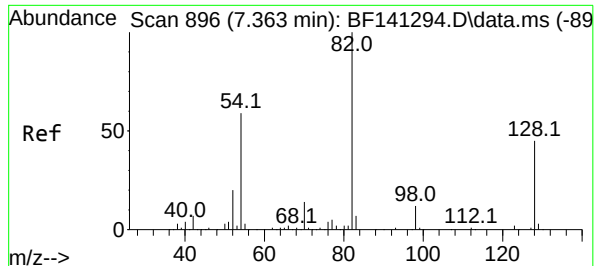
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#22
Acetophenone
Concen: 47.365 ng
RT: 7.210 min Scan# 870
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:105 Resp: 574700
Ion Ratio Lower Upper
105 100
71 6.6 6.8 10.2#
51 43.6 32.6 49.0
120 21.8 17.4 26.0





#23

Nitrobenzene-d5

Concen: 98.761 ng

RT: 7.369 min Scan# 89

Delta R.T. 0.006 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Tgt Ion: 82 Resp: 95536

Ion Ratio Lower Upper

82 100

128 45.3 35.7 53.5

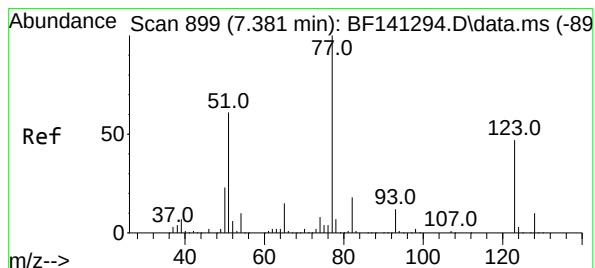
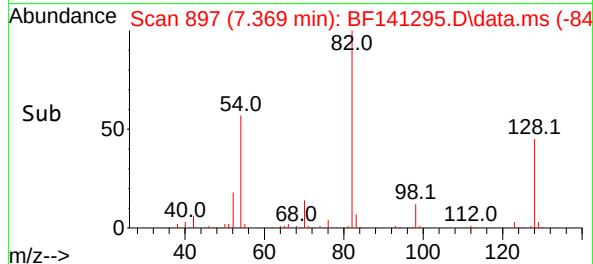
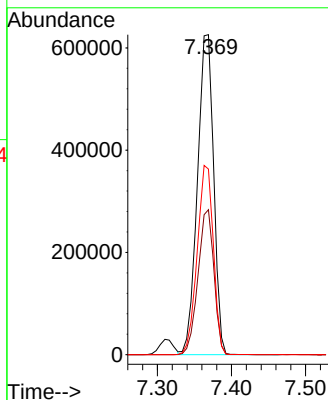
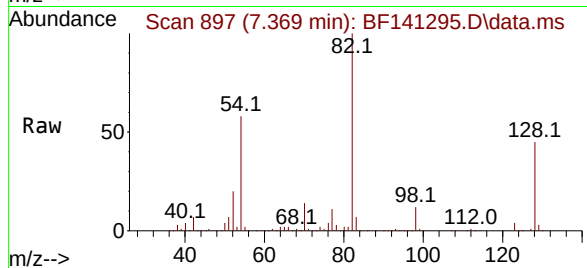
54 58.0 47.1 70.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#24

Nitrobenzene

Concen: 49.046 ng

RT: 7.386 min Scan# 900

Delta R.T. 0.006 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

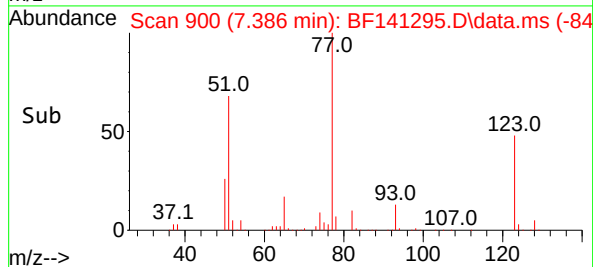
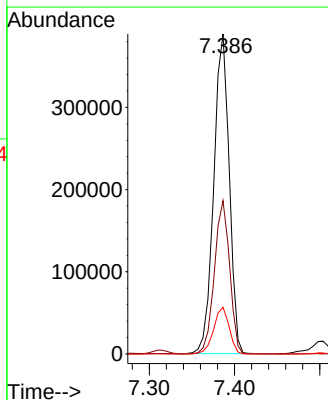
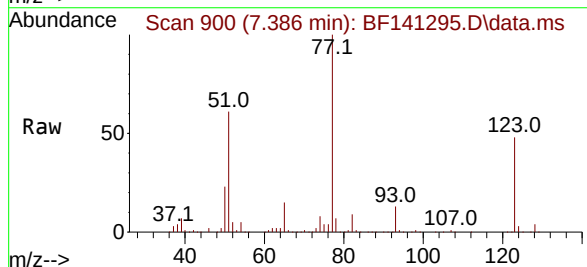
Tgt Ion: 77 Resp: 492082

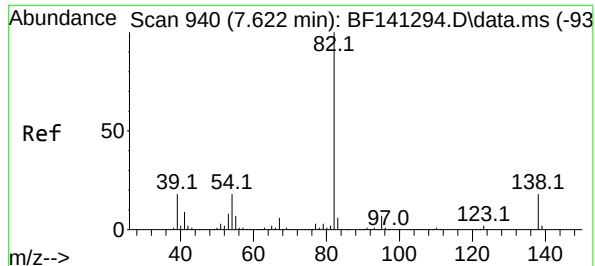
Ion Ratio Lower Upper

77 100

123 47.9 37.3 55.9

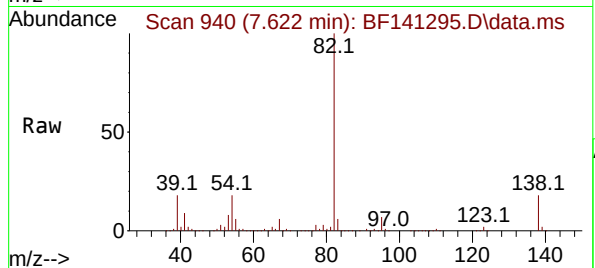
65 14.6 11.8 17.6





#25
Isophorone
Concen: 48.959 ng
RT: 7.622 min Scan# 940
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

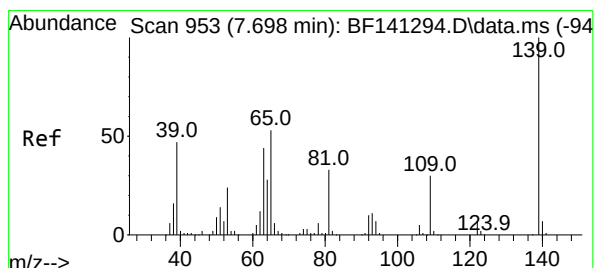
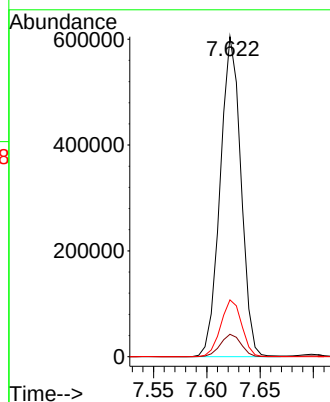
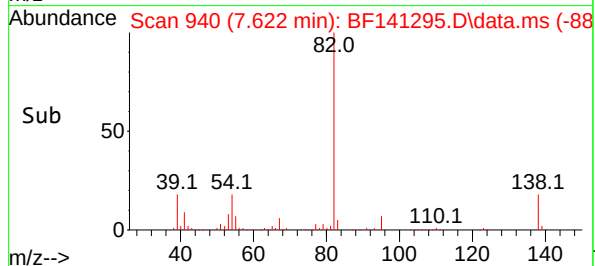
Instrument :
BNA_F
Client Sample Id :
SSTDICC050



Tgt Ion: 82 Resp: 818490
Ion Ratio Lower Upper
82 100
95 7.0 5.8 8.6
138 17.7 14.7 22.1

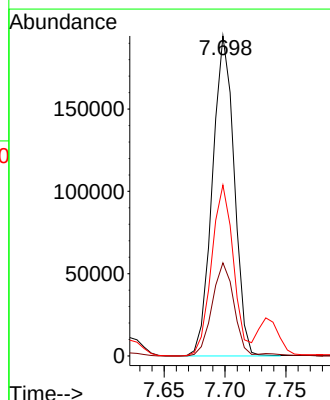
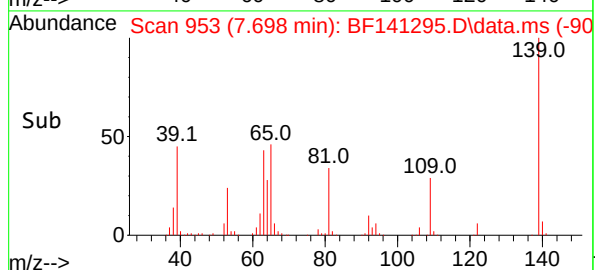
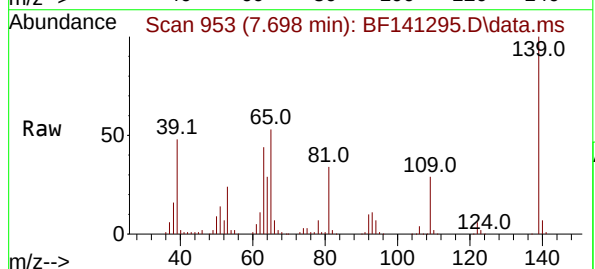
Manual Integrations
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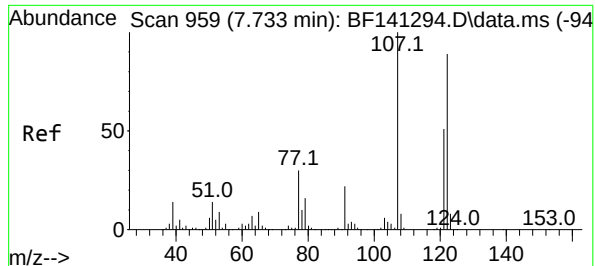
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#26
2-Nitrophenol
Concen: 51.545 ng
RT: 7.698 min Scan# 953
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:139 Resp: 242228
Ion Ratio Lower Upper
139 100
109 29.1 23.8 35.6
65 53.4 42.2 63.4





#27

2,4-Dimethylphenol

Concen: 49.969 ng m

RT: 7.734 min Scan# 91

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Tgt Ion:122 Resp: 300079

Ion Ratio Lower Upper

122 100

107 112.0 89.9 134.9

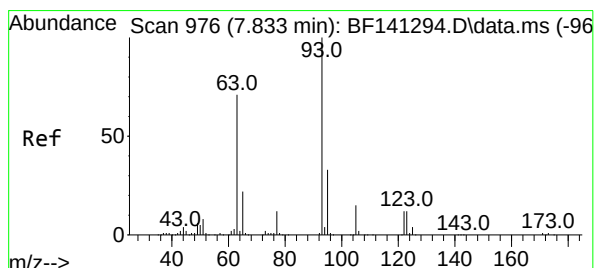
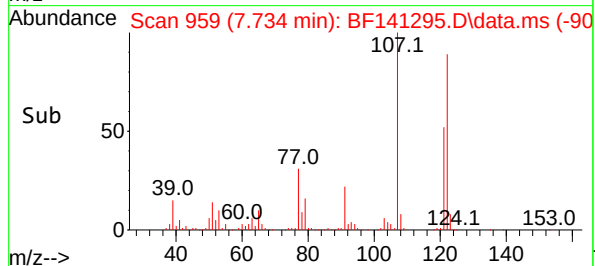
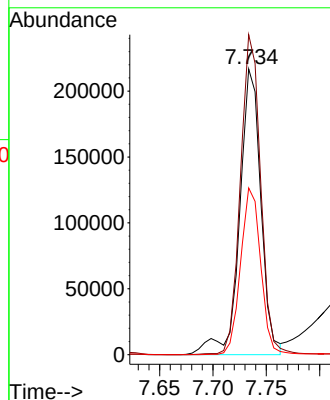
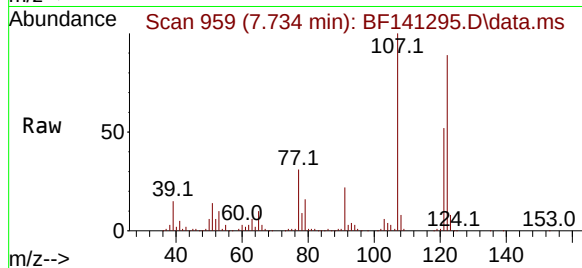
121 58.3 46.1 69.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#28

bis(2-Chloroethoxy)methane

Concen: 48.701 ng

RT: 7.833 min Scan# 976

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

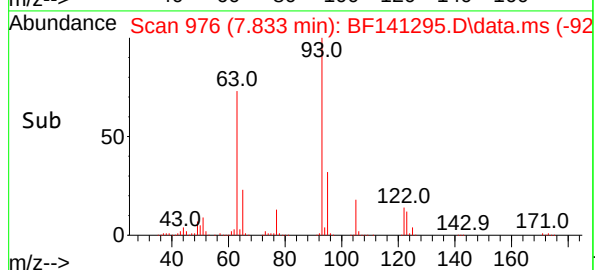
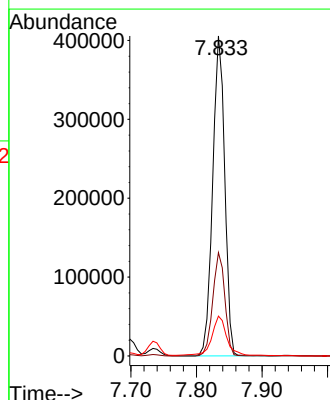
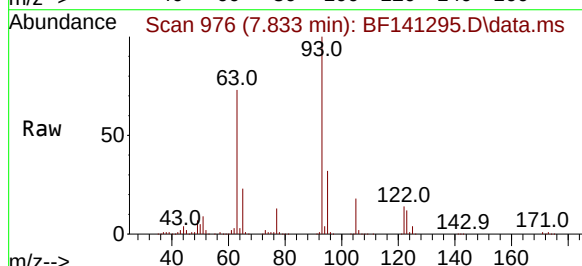
Tgt Ion: 93 Resp: 518825

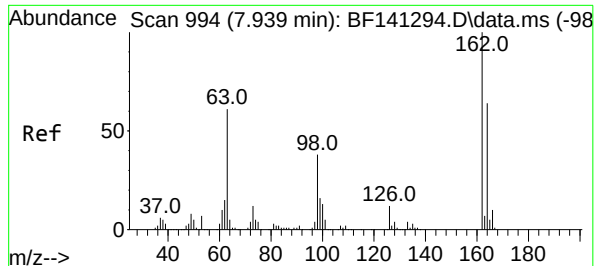
Ion Ratio Lower Upper

93 100

95 32.3 26.2 39.2

123 12.4 10.2 15.4





#29

2,4-Dichlorophenol

Concen: 49.507 ng

RT: 7.939 min Scan# 994

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Tgt Ion:162 Resp: 363274

Ion Ratio Lower Upper

162 100

164 64.2 44.2 84.2

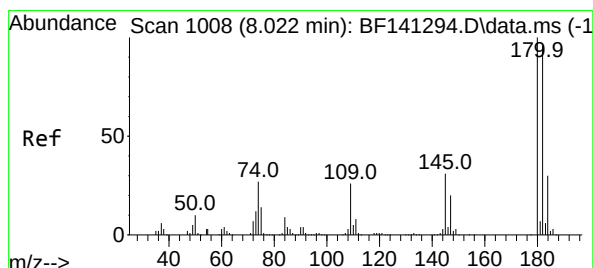
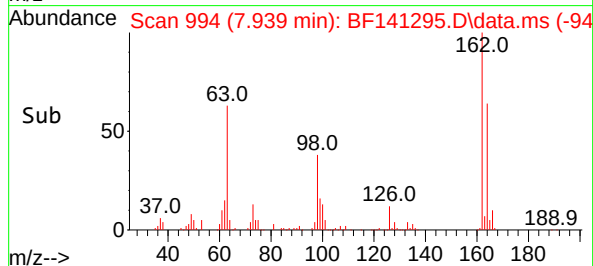
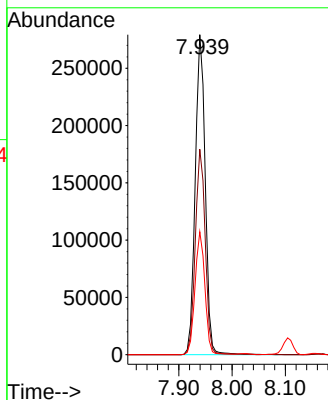
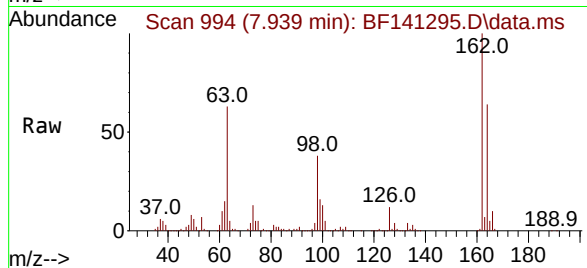
98 38.4 18.2 58.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#30

1,2,4-Trichlorobenzene

Concen: 48.309 ng

RT: 8.022 min Scan# 1008

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

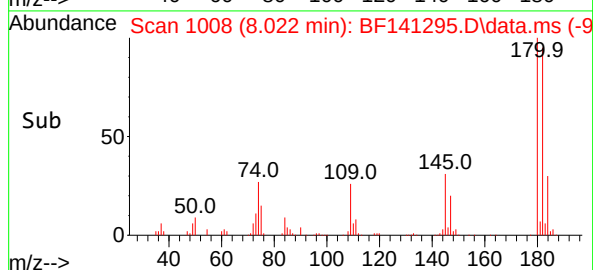
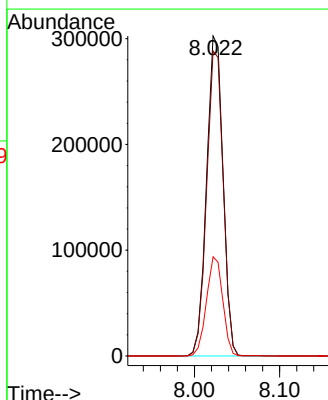
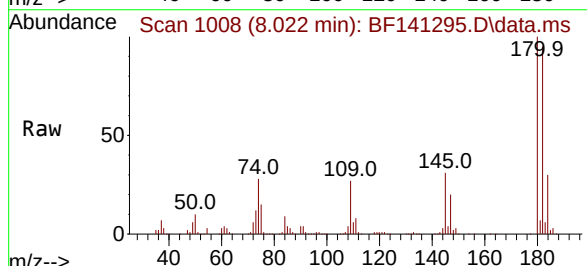
Tgt Ion:180 Resp: 406562

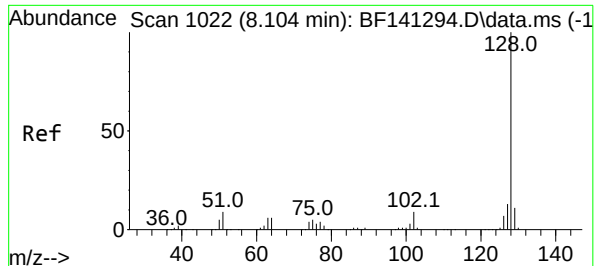
Ion Ratio Lower Upper

180 100

182 95.3 76.4 114.6

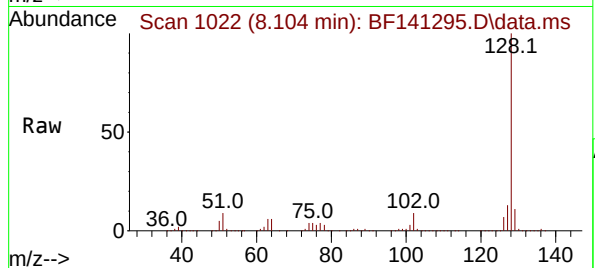
145 31.0 24.9 37.3





#31
Naphthalene
Concen: 48.468 ng
RT: 8.104 min Scan# 1022
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

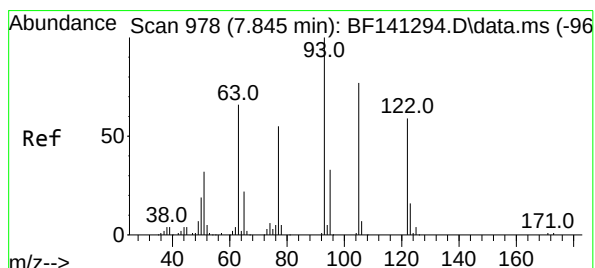
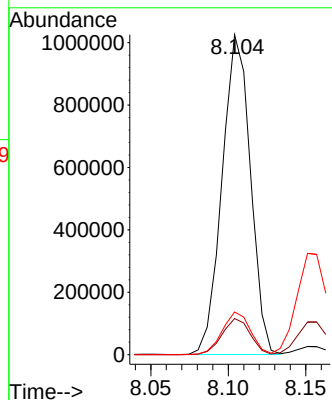
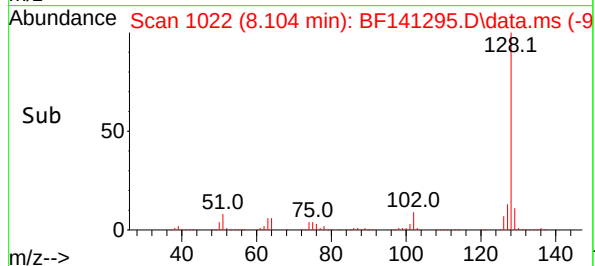
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion:128 Resp: 130475
Ion Ratio Lower Upper
128 100
129 11.3 8.9 13.3
127 13.3 10.6 15.8

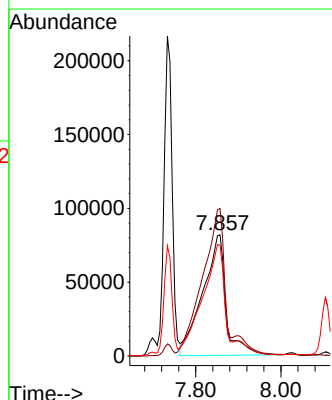
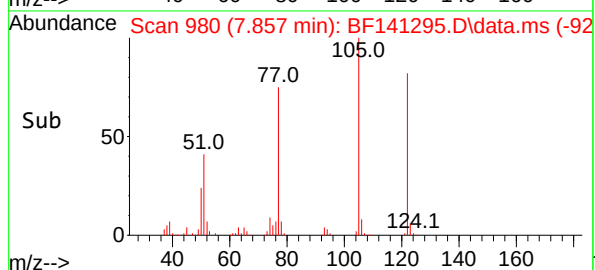
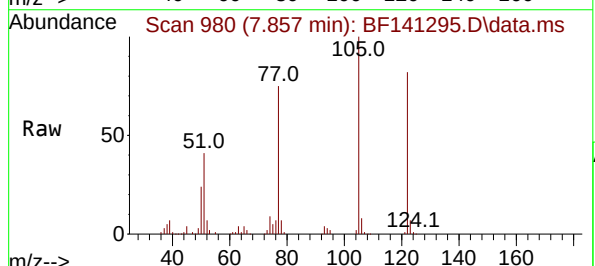
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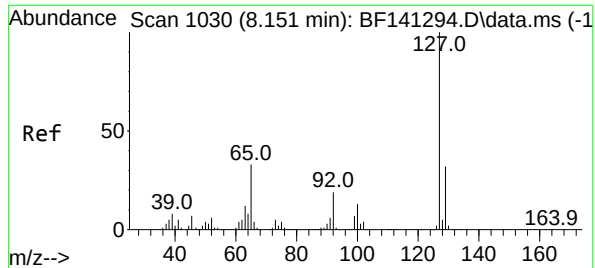
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#32
Benzoic acid
Concen: 56.571 ng
RT: 7.857 min Scan# 980
Delta R.T. 0.012 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:122 Resp: 308525
Ion Ratio Lower Upper
122 100
105 121.7 103.4 143.4
77 91.5 70.9 110.9





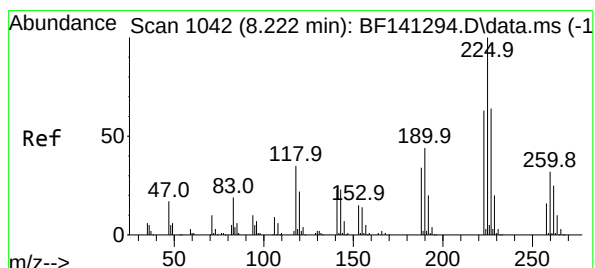
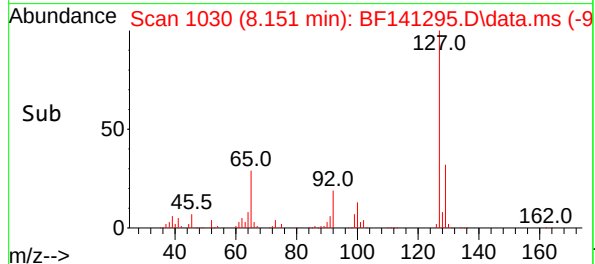
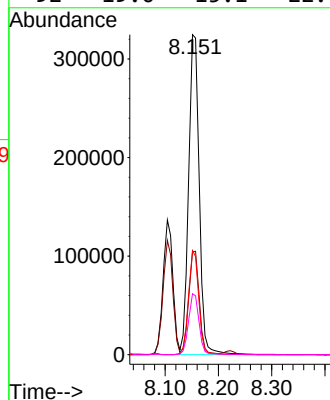
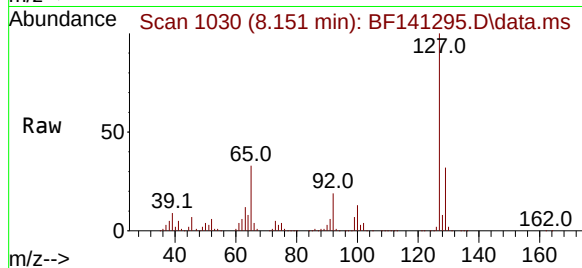
#33
4-Chloroaniline
Concen: 49.712 ng
RT: 8.151 min Scan# 1030
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:127 Resp: 44954
Ion Ratio Lower Upper
127 100
129 32.2 25.7 38.5
65 32.6 26.4 39.6
92 19.0 15.1 22.7

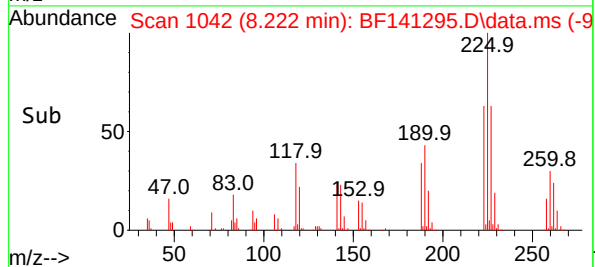
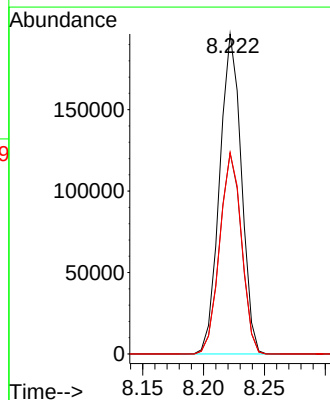
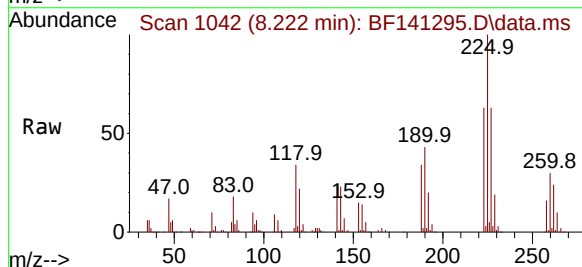
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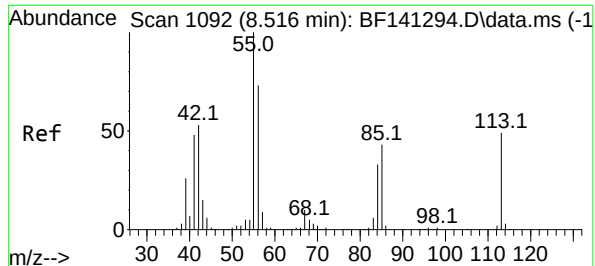
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#34
Hexachlorobutadiene
Concen: 49.395 ng
RT: 8.222 min Scan# 1042
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:225 Resp: 243308
Ion Ratio Lower Upper
225 100
223 62.8 50.4 75.6
227 62.9 51.3 76.9





#35

Caprolactam

Concen: 50.594 ng

RT: 8.528 min Scan# 1094

Delta R.T. 0.012 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Tgt Ion:113 Resp: 120078

Ion Ratio Lower Upper

113 100

55 199.5 182.9 222.9

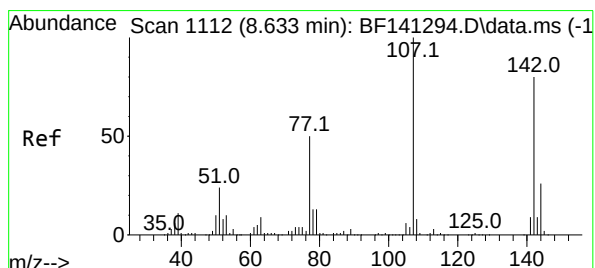
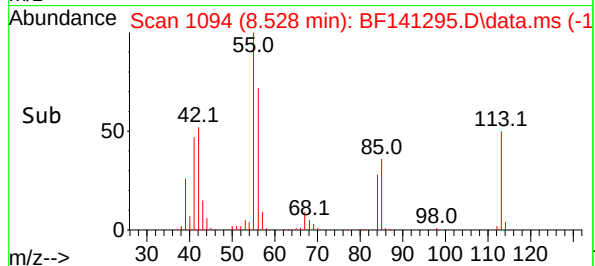
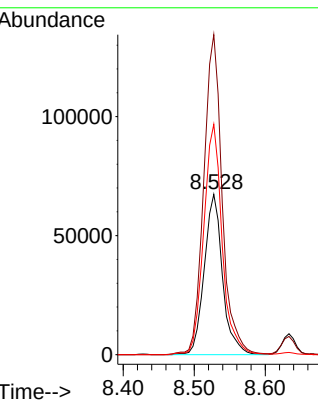
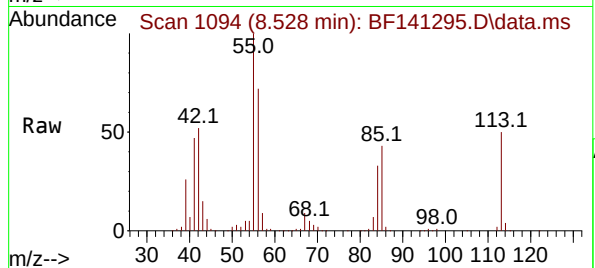
56 143.7 127.9 167.9

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#36

4-Chloro-3-methylphenol

Concen: 48.973 ng

RT: 8.633 min Scan# 1112

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

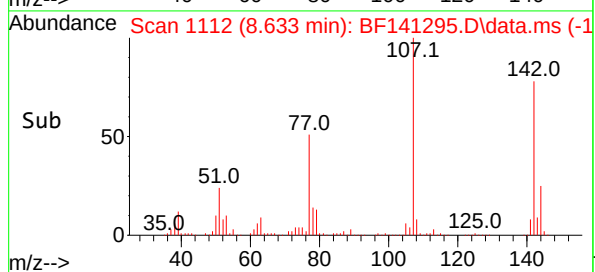
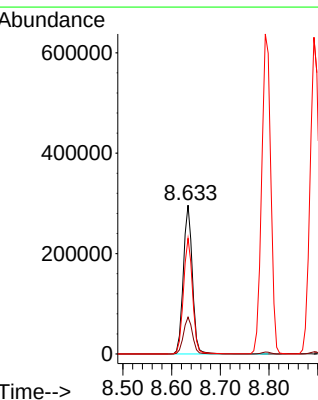
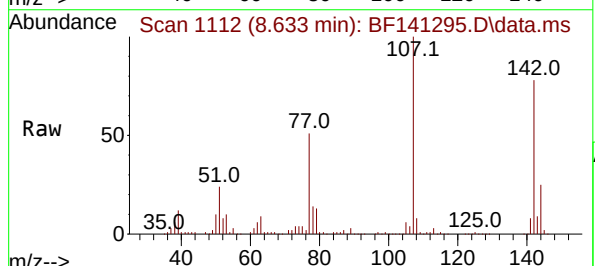
Tgt Ion:107 Resp: 385683

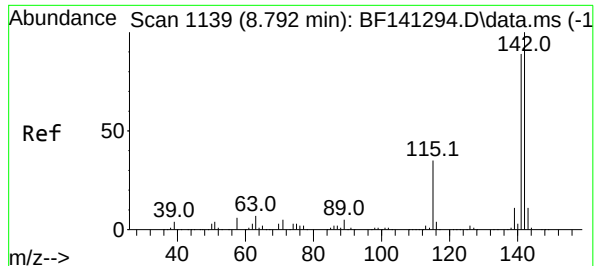
Ion Ratio Lower Upper

107 100

144 24.8 20.7 31.1

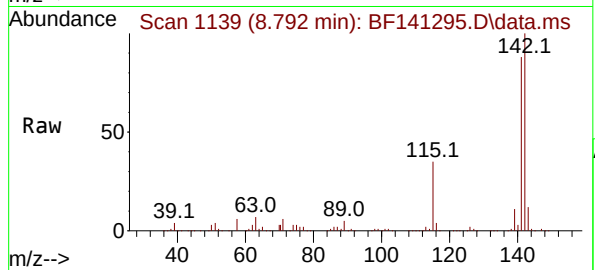
142 77.7 63.8 95.8





#37
2-Methylnaphthalene
Concen: 48.006 ng
RT: 8.792 min Scan# 1139
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

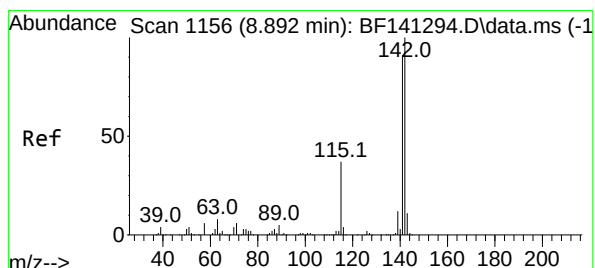
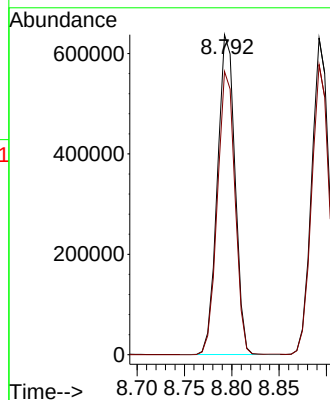
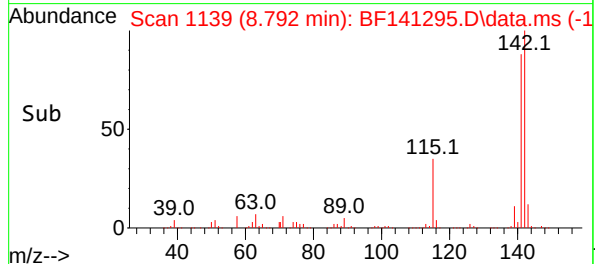
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



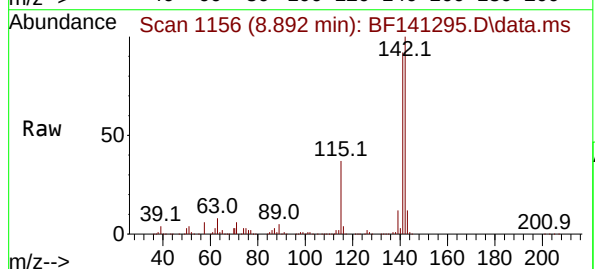
Tgt Ion:142 Resp: 822986
Ion Ratio Lower Upper
142 100
141 88.5 71.3 106.9

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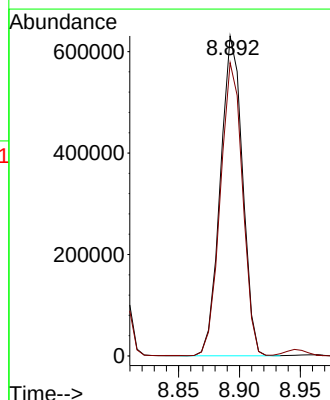
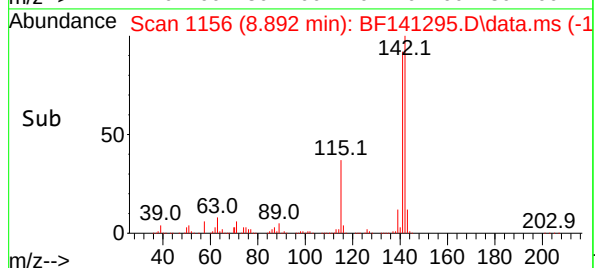
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

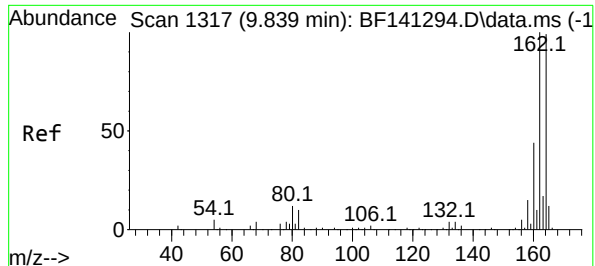


#38
1-Methylnaphthalene
Concen: 47.586 ng
RT: 8.892 min Scan# 1156
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11



Tgt Ion:142 Resp: 799136
Ion Ratio Lower Upper
142 100
141 91.6 73.2 109.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.839 min Scan# 1167

Delta R.T. 0.000 min

Lab File: BF141295.D

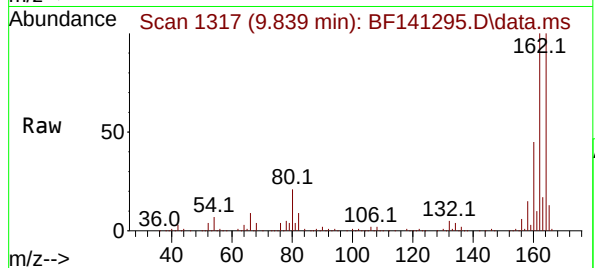
Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050



Tgt Ion:164 Resp: 269662

Ion Ratio Lower Upper

164 100

162 100.1 80.6 121.0

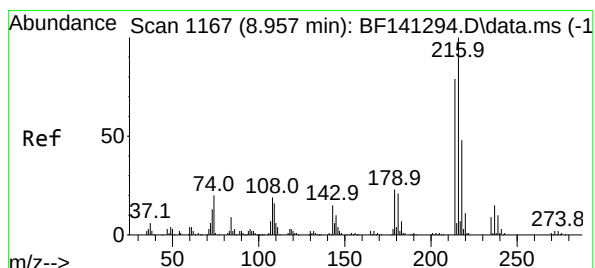
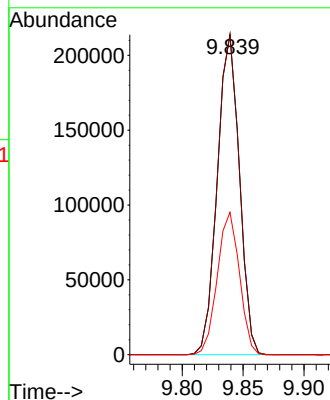
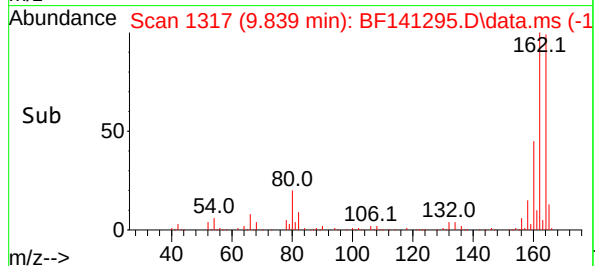
160 44.5 35.8 53.6

Manual Integrations

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#40

1,2,4,5-Tetrachlorobenzene

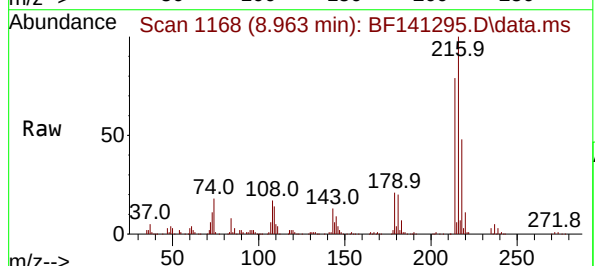
Concen: 48.774 ng

RT: 8.963 min Scan# 1168

Delta R.T. 0.006 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11



Tgt Ion:216 Resp: 373963

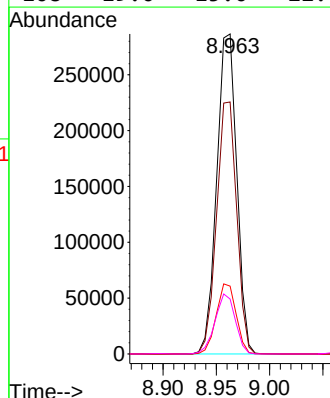
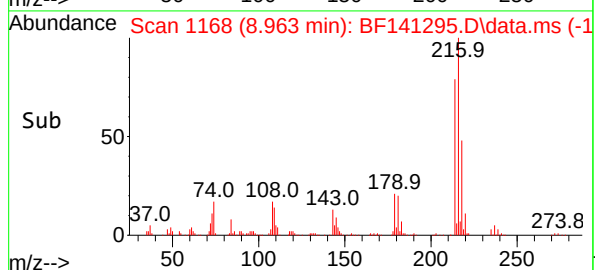
Ion Ratio Lower Upper

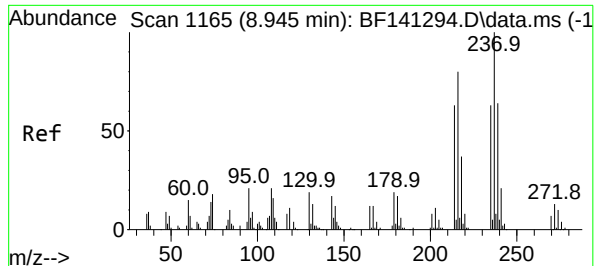
216 100

214 79.0 63.2 94.8

179 21.7 17.8 26.8

108 19.0 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 53.227 ng

RT: 8.945 min Scan# 1165

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Tgt Ion:237 Resp: 122470

Ion Ratio Lower Upper

237 100

235 63.0 42.9 82.9

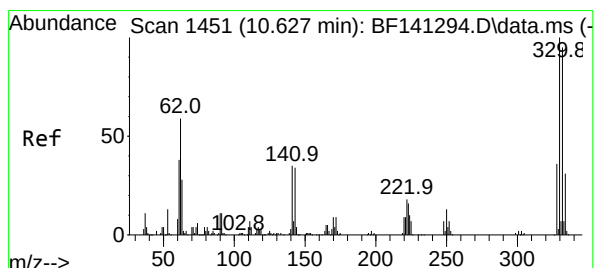
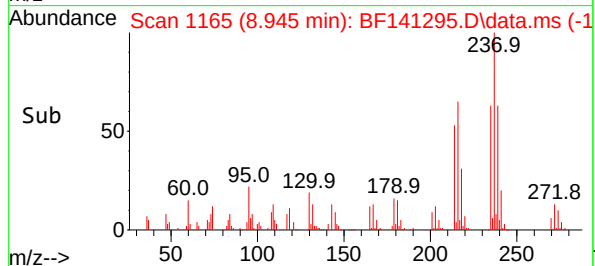
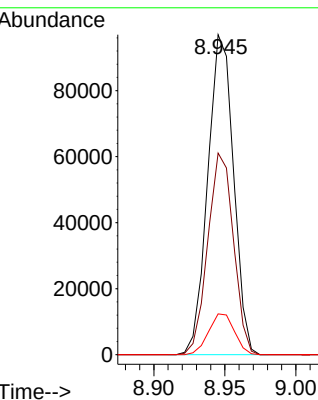
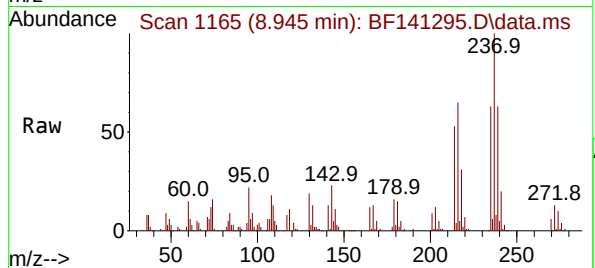
272 12.7 0.0 32.8

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#42

2,4,6-Tribromophenol

Concen: 95.997 ng

RT: 10.627 min Scan# 1451

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

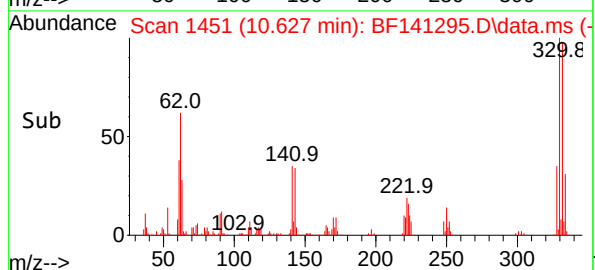
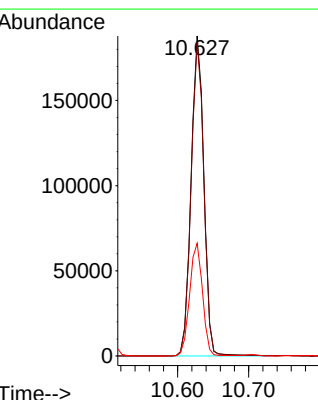
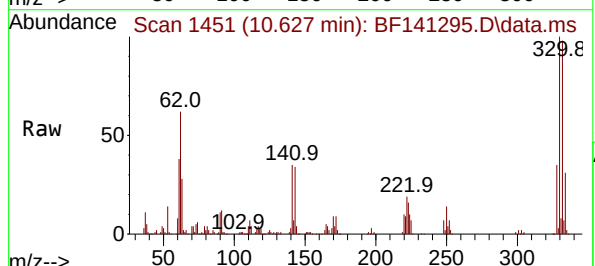
Tgt Ion:330 Resp: 235884

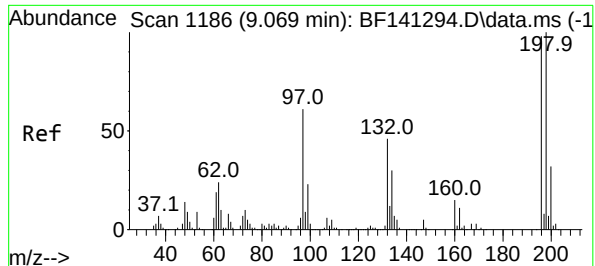
Ion Ratio Lower Upper

330 100

332 97.5 76.1 114.1

141 35.4 28.8 43.2





#43

2,4,6-Trichlorophenol

Concen: 50.545 ng

RT: 9.069 min Scan# 1186

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Tgt Ion:196 Resp: 252974

Ion Ratio Lower Upper

196 100

198 100.5 81.8 122.6

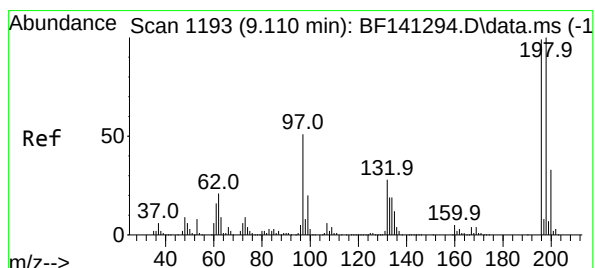
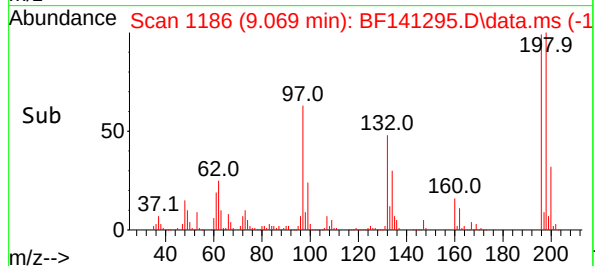
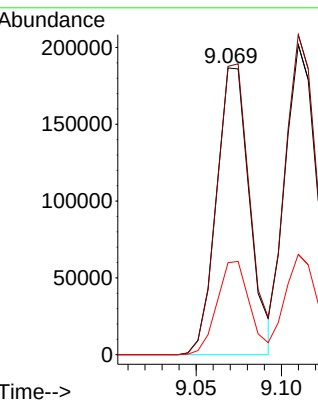
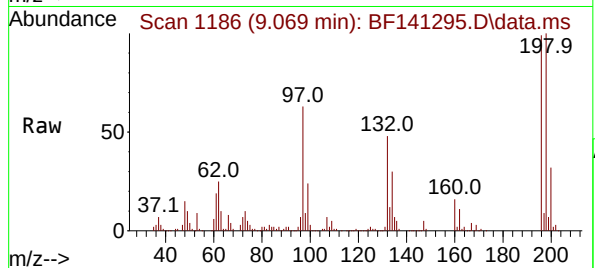
200 32.1 26.3 39.5

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#44

2,4,5-Trichlorophenol

Concen: 48.438 ng

RT: 9.110 min Scan# 1193

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Tgt Ion:196 Resp: 263745

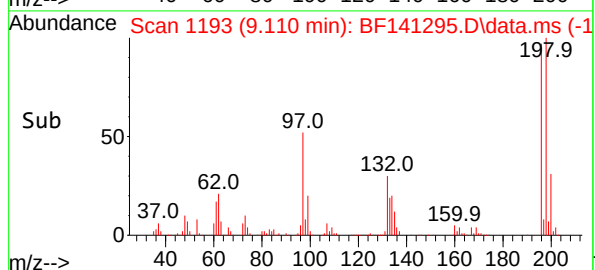
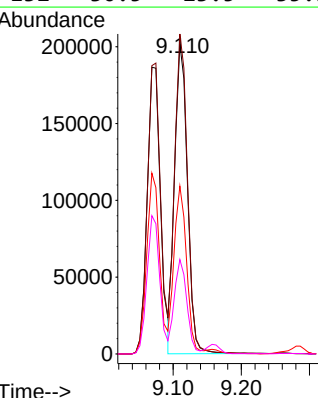
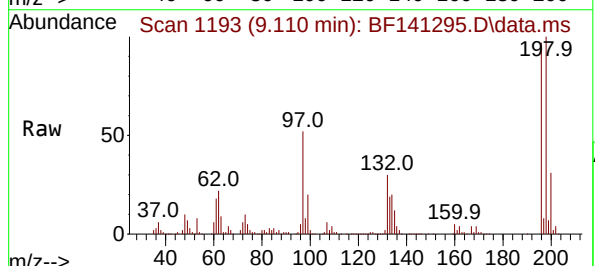
Ion Ratio Lower Upper

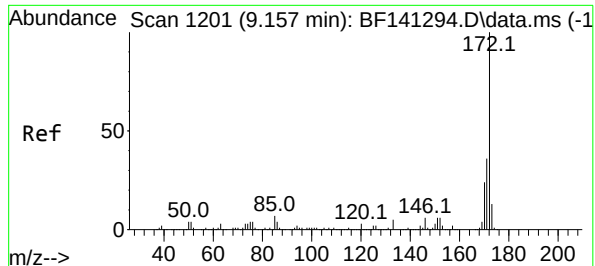
196 100

198 103.2 80.5 120.7

97 54.1 42.8 64.2

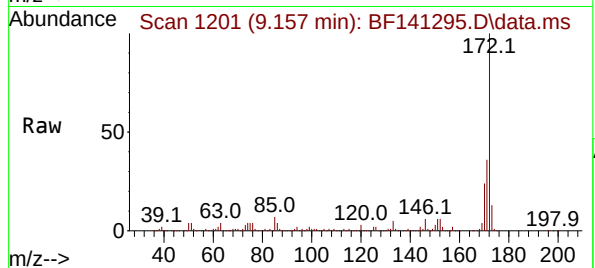
132 30.5 23.5 35.3





#45
2-Fluorobiphenyl
Concen: 92.721 ng
RT: 9.157 min Scan# 1201
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

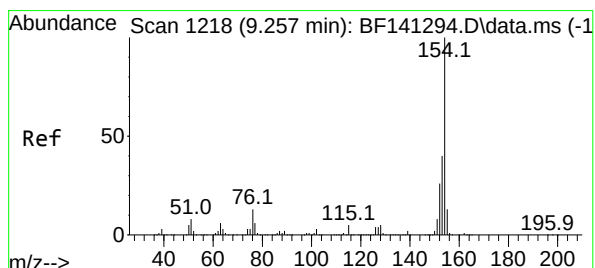
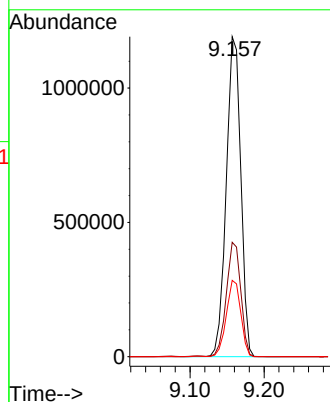
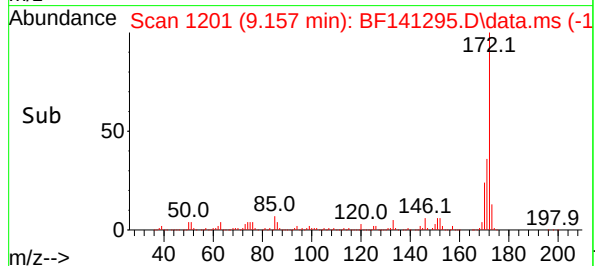
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



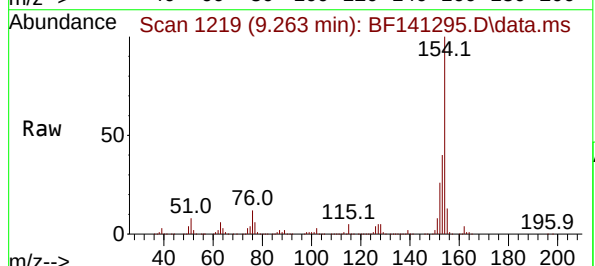
Tgt Ion:172 Resp: 1620825
Ion Ratio Lower Upper
172 100
171 35.7 28.8 43.2
170 23.8 19.0 28.6

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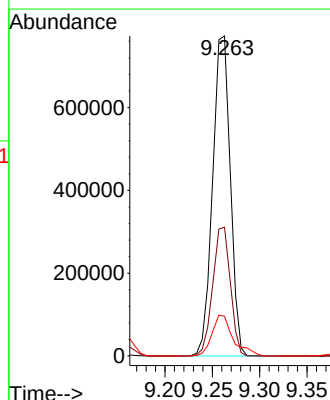
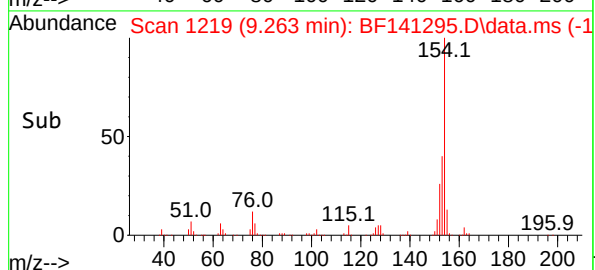
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

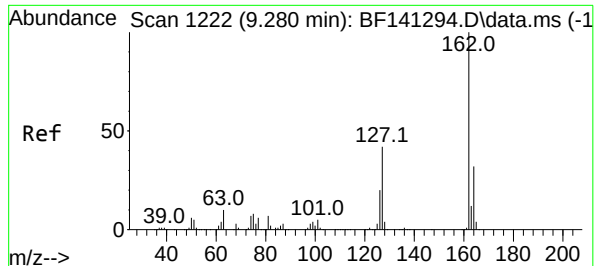


#46
1,1'-Biphenyl
Concen: 47.808 ng
RT: 9.263 min Scan# 1219
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11



Tgt Ion:154 Resp: 1005774
Ion Ratio Lower Upper
154 100
153 40.3 20.0 60.0
76 12.4 0.0 32.8





#47

2-Chloronaphthalene

Concen: 47.835 ng

RT: 9.286 min Scan# 1222

Delta R.T. 0.006 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Tgt Ion:162 Resp: 78161

Ion Ratio Lower Upper

162 100

127 41.3 33.7 50.5

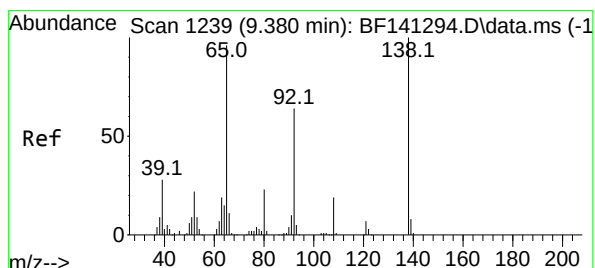
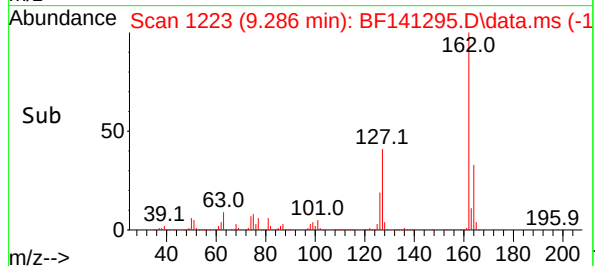
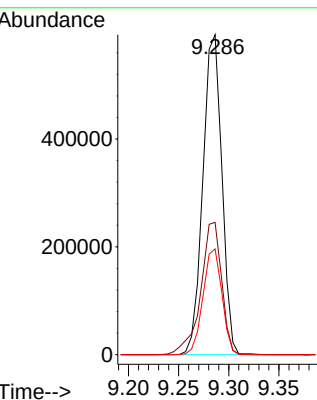
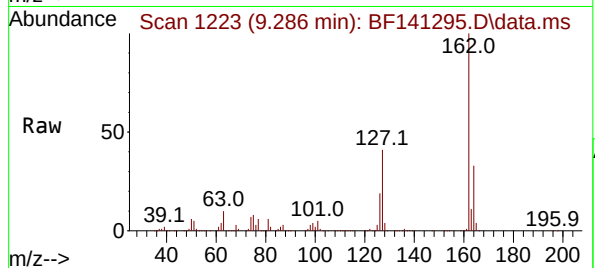
164 33.0 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#48

2-Nitroaniline

Concen: 49.907 ng

RT: 9.380 min Scan# 1239

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

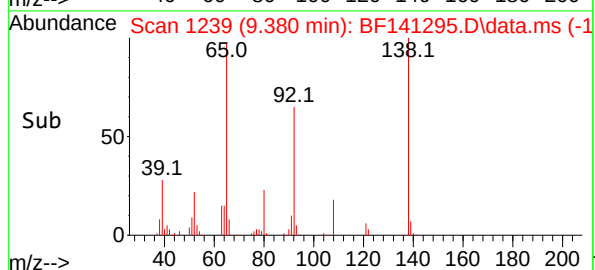
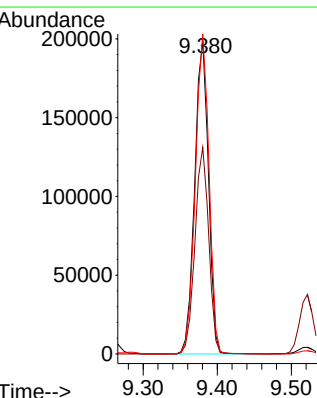
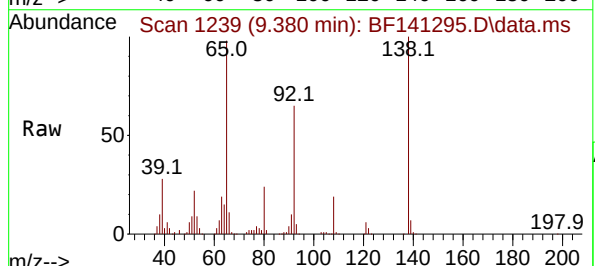
Tgt Ion: 65 Resp: 257199

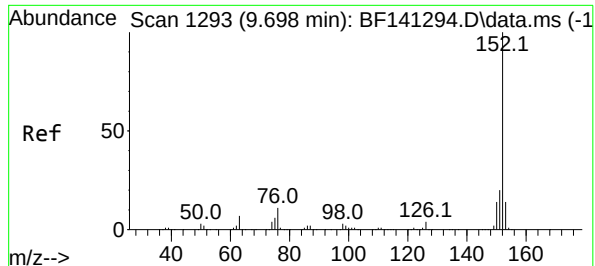
Ion Ratio Lower Upper

65 100

92 66.0 53.3 79.9

138 102.3 83.6 125.4





#49

Acenaphthylene

Concen: 47.595 ng

RT: 9.698 min Scan# 1293

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDIC050

Tgt Ion:152 Resp: 1092234

Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.2

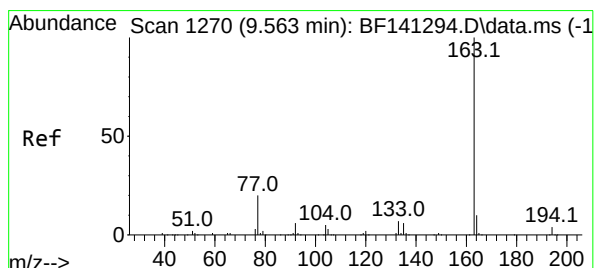
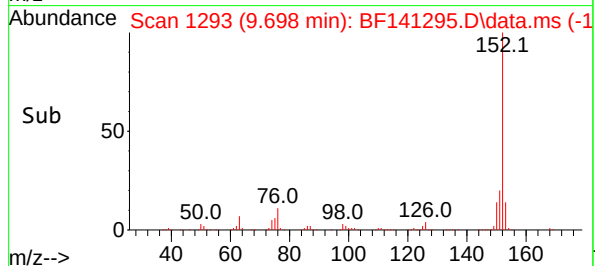
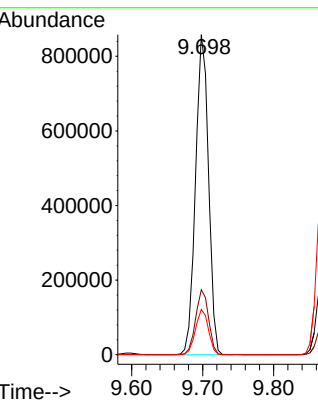
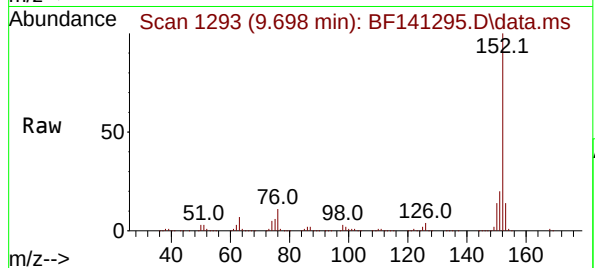
153 14.2 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#50

Dimethylphthalate

Concen: 48.419 ng

RT: 9.563 min Scan# 1270

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

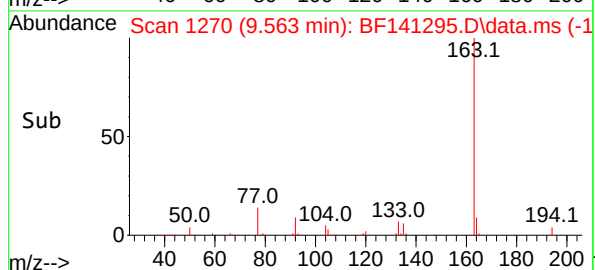
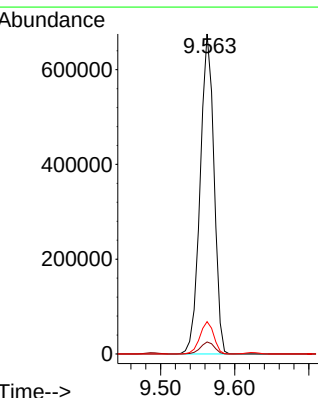
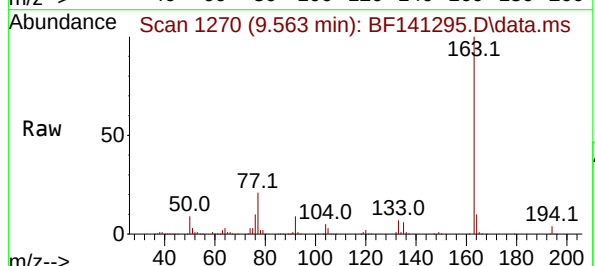
Tgt Ion:163 Resp: 875569

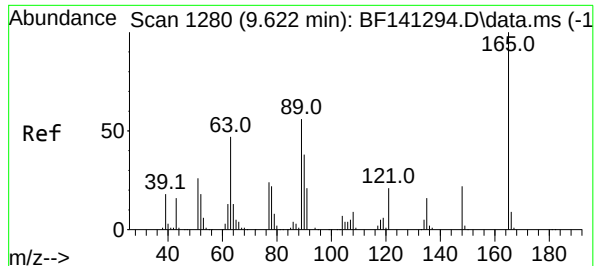
Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.6

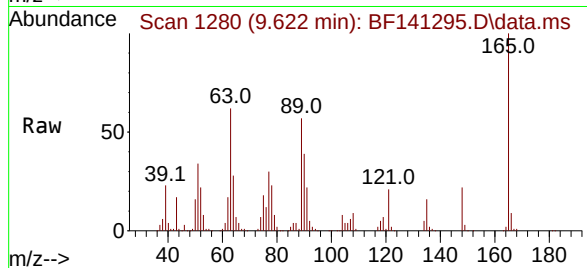
164 10.1 8.0 12.0





#51
2,6-Dinitrotoluene
Concen: 48.697 ng
RT: 9.622 min Scan# 1280
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

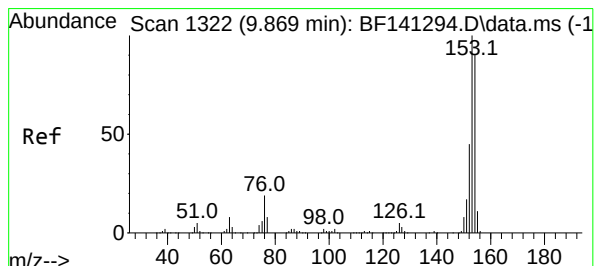
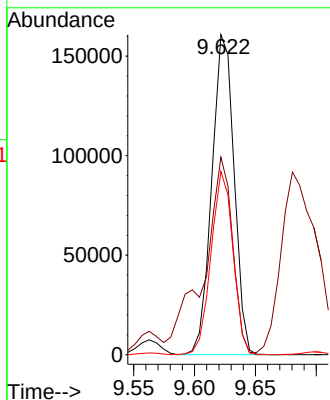
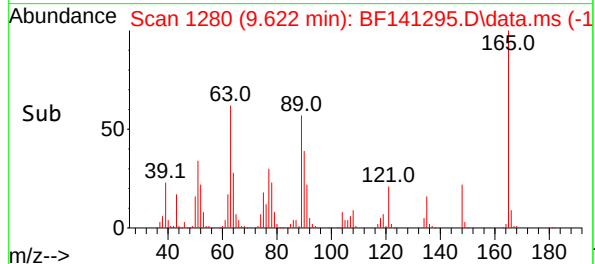
Instrument :
BNA_F
Client Sample Id :
SSTDICC050



Tgt Ion:165 Resp: 20491
Ion Ratio Lower Upper
165 100
63 61.7 48.1 72.1
89 57.3 44.9 67.3

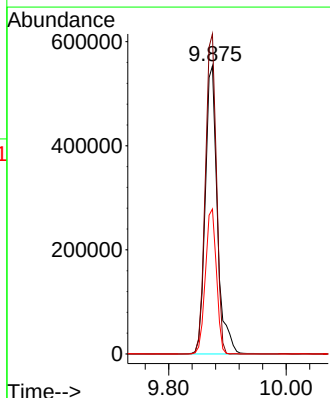
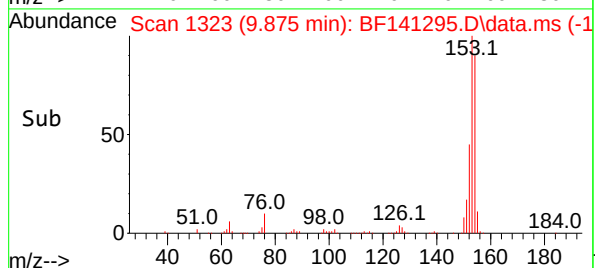
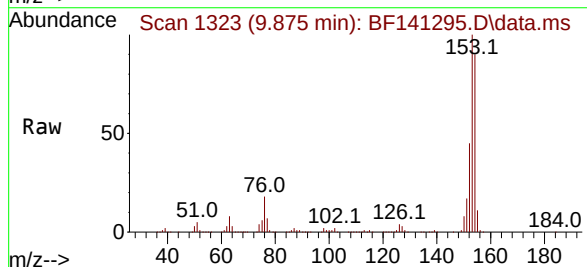
Manual Integrations
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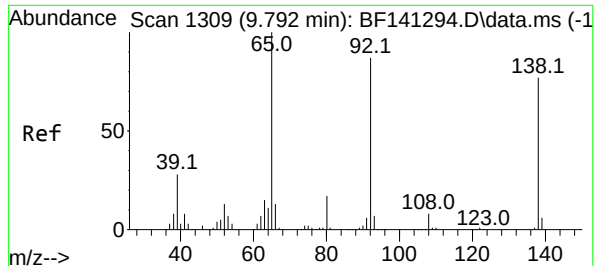
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#52
Acenaphthene
Concen: 48.322 ng
RT: 9.875 min Scan# 1323
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

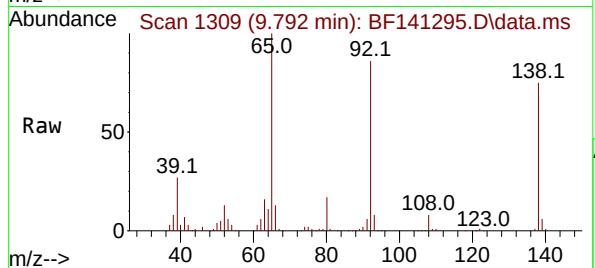
Tgt Ion:154 Resp: 789039
Ion Ratio Lower Upper
154 100
153 111.1 89.0 133.4
152 50.3 40.2 60.4





#53
3-Nitroaniline
Concen: 47.528 ng
RT: 9.792 min Scan# 1309
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

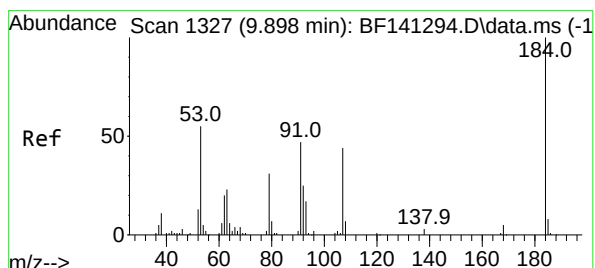
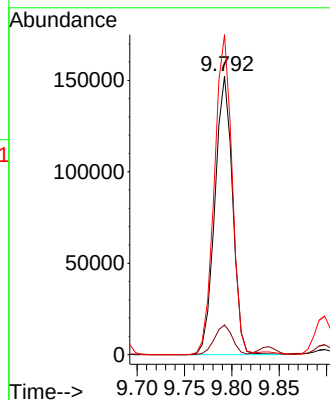
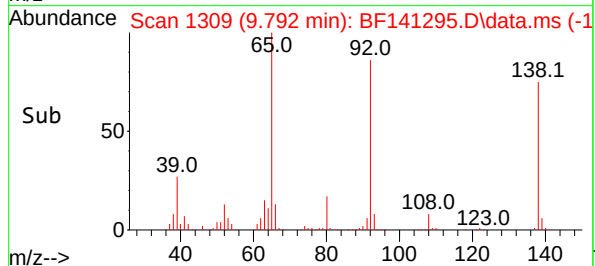
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion:138 Resp: 19783
Ion Ratio Lower Upper
138 100
108 10.7 8.6 12.8
92 115.0 91.0 136.6

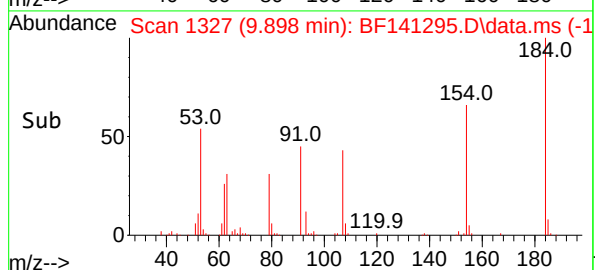
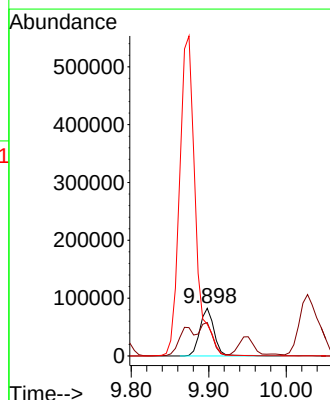
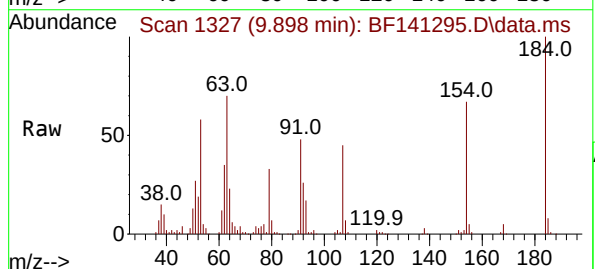
Manual Integrations
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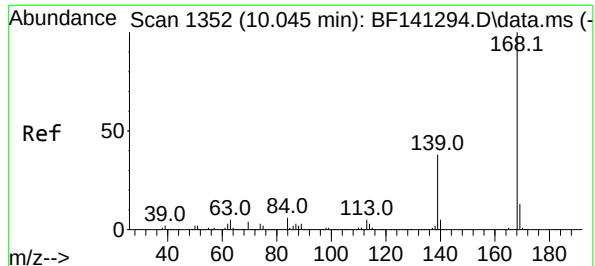
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#54
2,4-Dinitrophenol
Concen: 53.096 ng
RT: 9.898 min Scan# 1327
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:184 Resp: 105313
Ion Ratio Lower Upper
184 100
63 70.3 54.1 81.1
154 66.8 50.7 76.1





#55

Dibenzenofuran

Concen: 47.082 ng

RT: 10.045 min Scan# 1352

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Tgt Ion:168 Resp: 102818

Ion Ratio Lower Upper

168 100

139 38.6 30.6 46.0

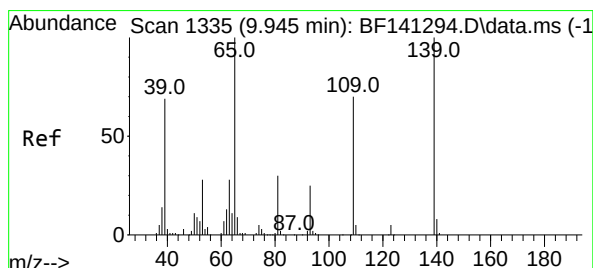
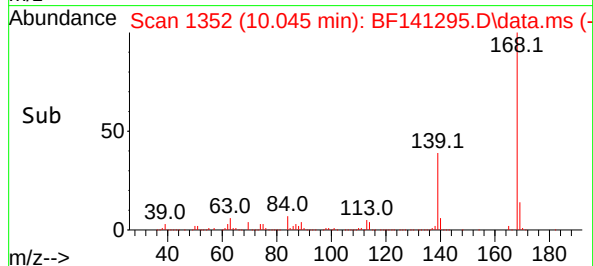
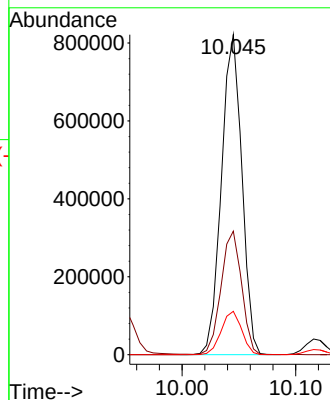
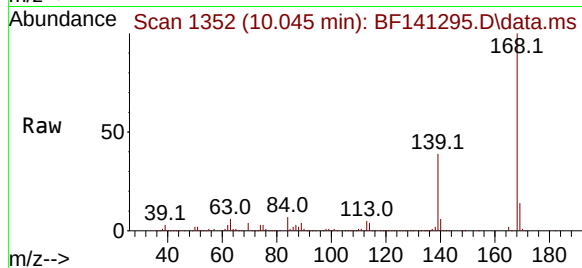
169 13.6 10.8 16.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#56

4-Nitrophenol

Concen: 52.067 ng

RT: 9.951 min Scan# 1336

Delta R.T. 0.006 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

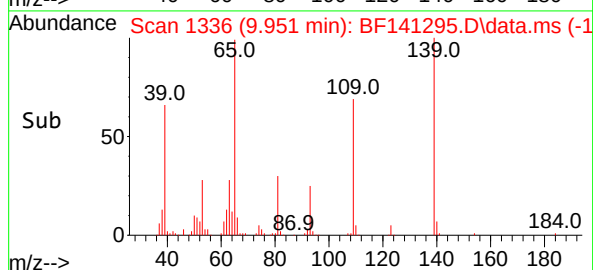
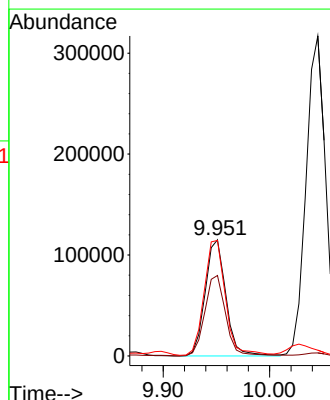
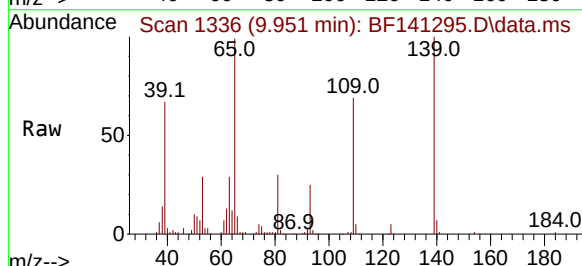
Tgt Ion:139 Resp: 155594

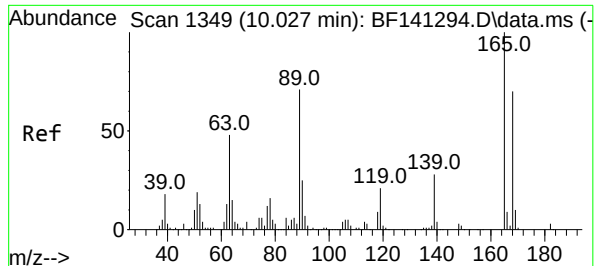
Ion Ratio Lower Upper

139 100

109 69.3 50.2 90.2

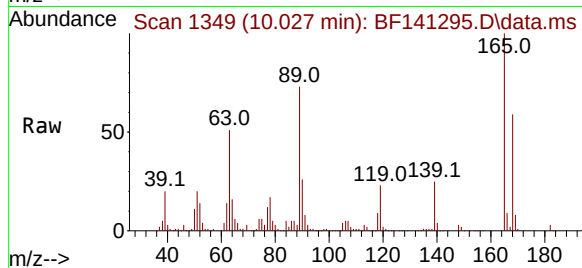
65 99.5 80.6 120.6





#57
2,4-Dinitrotoluene
Concen: 48.700 ng
RT: 10.027 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

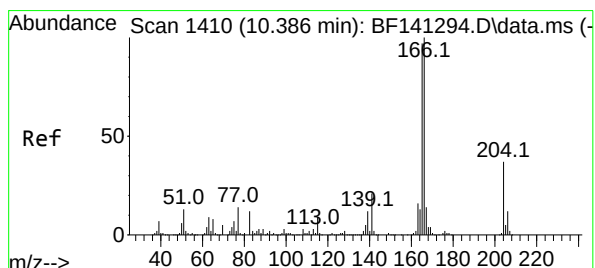
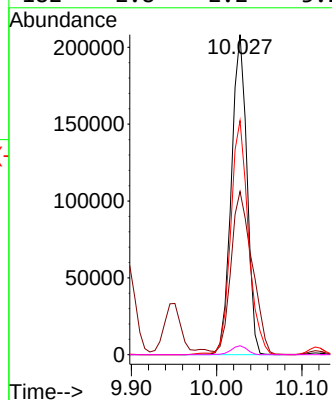
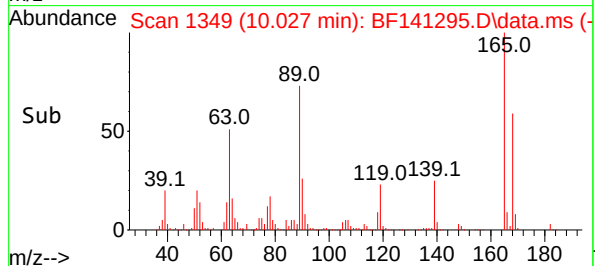
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



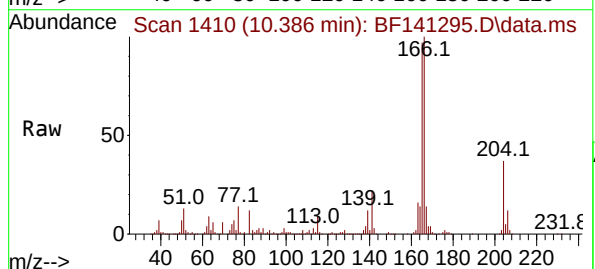
Tgt Ion:165 Resp: 26432
Ion Ratio Lower Upper
165 100
63 51.0 39.2 58.8
89 73.1 56.9 85.3
182 2.8 2.2 3.2

Manual Integrations
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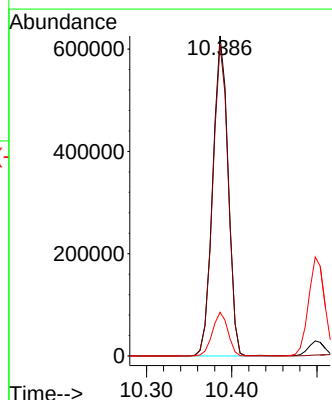
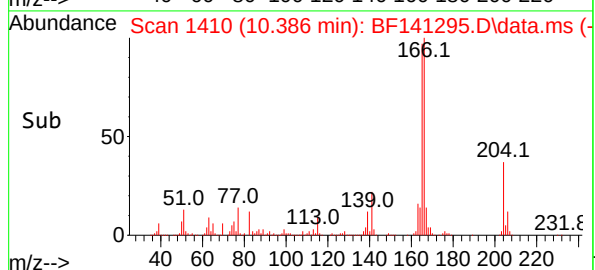
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

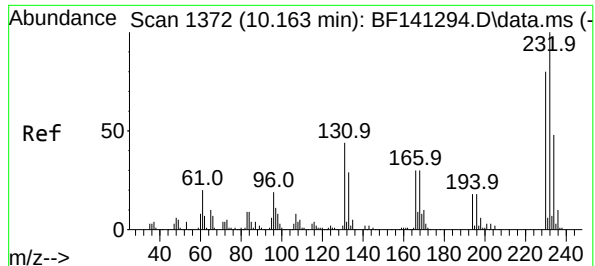


#58
Fluorene
Concen: 46.215 ng
RT: 10.386 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11



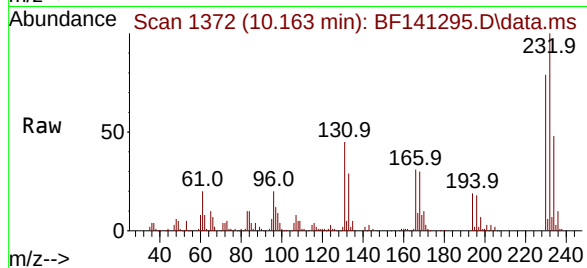
Tgt Ion:166 Resp: 784644
Ion Ratio Lower Upper
166 100
165 97.3 77.5 116.3
167 13.6 10.9 16.3





#59
2,3,4,6-Tetrachlorophenol
Concen: 47.772 ng
RT: 10.163 min Scan# 1372
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

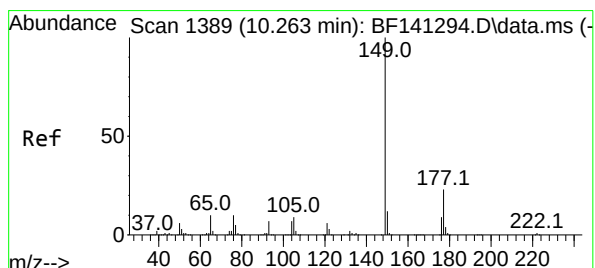
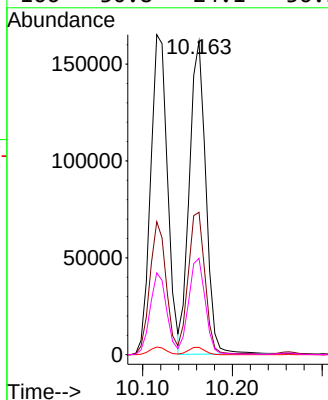
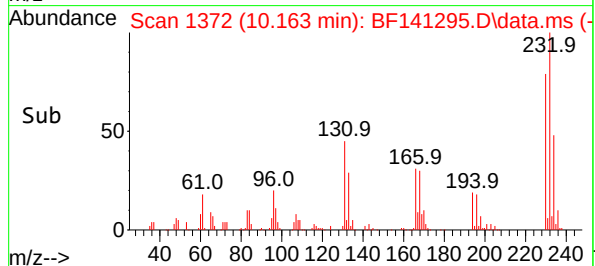
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion:232 Resp: 205508
Ion Ratio Lower Upper
232 100
131 46.9 36.4 54.6
130 2.4 1.9 2.9
166 30.8 24.1 36.1

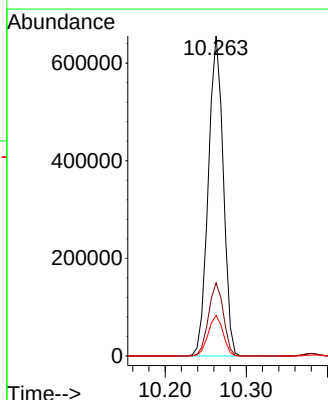
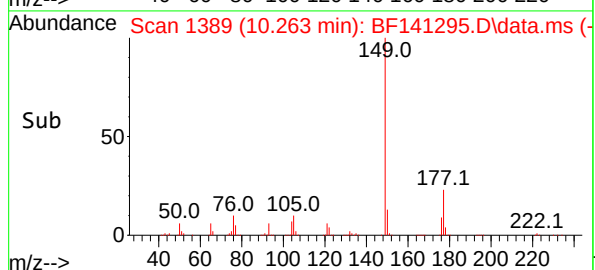
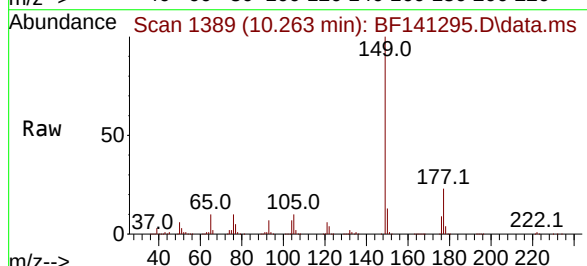
Manual Integrations
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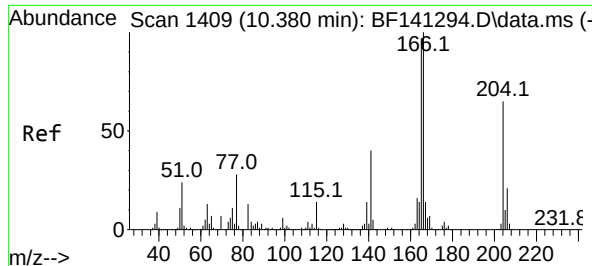
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#60
Diethylphthalate
Concen: 47.668 ng
RT: 10.263 min Scan# 1389
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

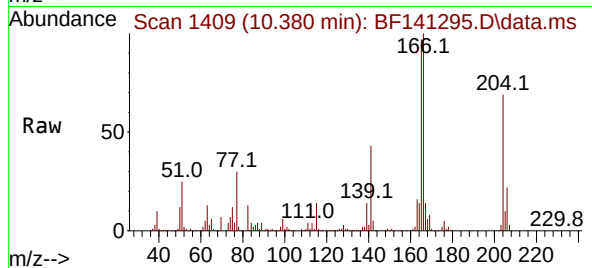
Tgt Ion:149 Resp: 834803
Ion Ratio Lower Upper
149 100
177 22.8 18.5 27.7
150 12.7 10.0 15.0





#61
4-Chlorophenyl-phenylether
Concen: 45.976 ng
RT: 10.380 min Scan# 1409
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

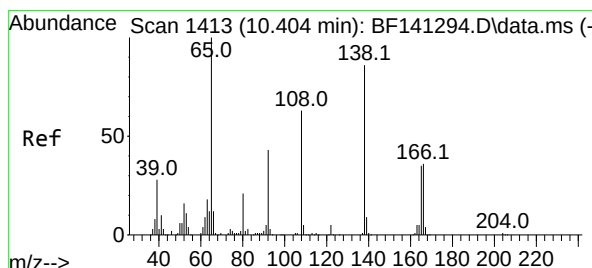
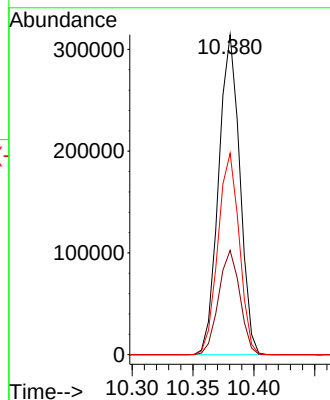
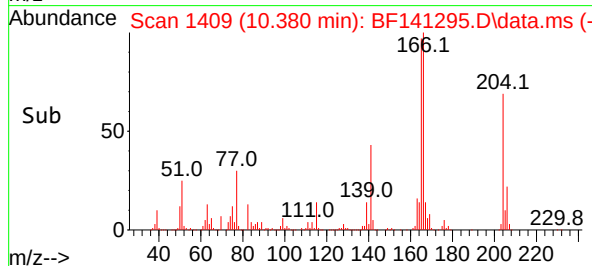
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion:204 Resp: 38094
Ion Ratio Lower Upper
204 100
206 32.6 25.9 38.9
141 62.9 49.5 74.3

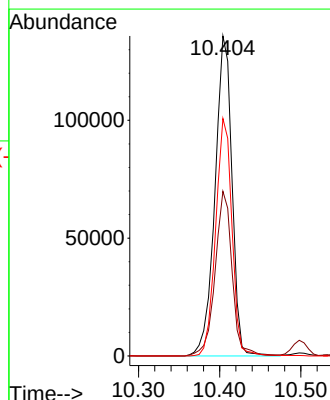
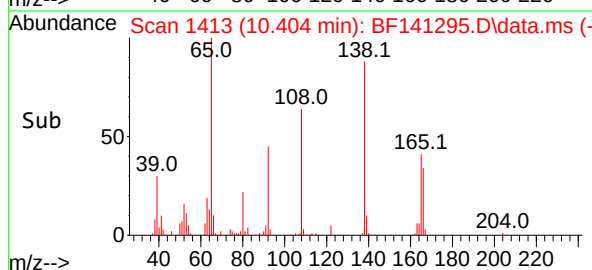
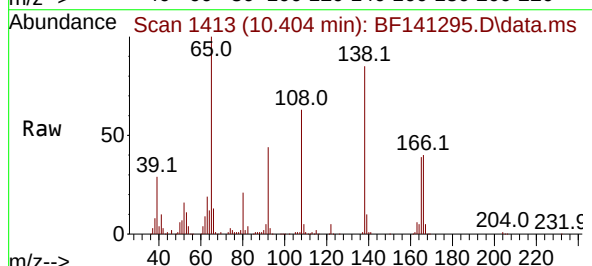
Manual Integrations
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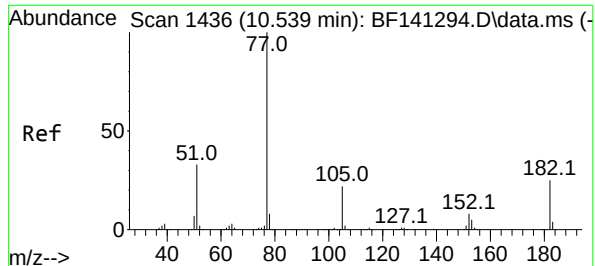
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#62
4-Nitroaniline
Concen: 49.579 ng
RT: 10.404 min Scan# 1413
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

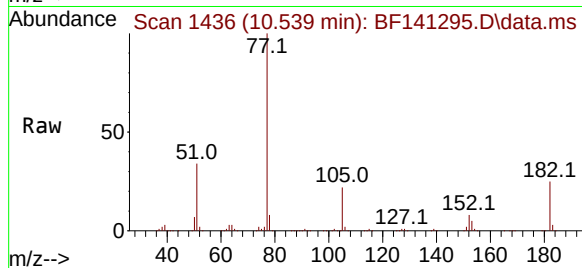
Tgt Ion:138 Resp: 198241
Ion Ratio Lower Upper
138 100
92 51.5 30.1 70.1
108 74.2 53.1 93.1





#63
Azobenzene
Concen: 47.955 ng
RT: 10.539 min Scan# 1436
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

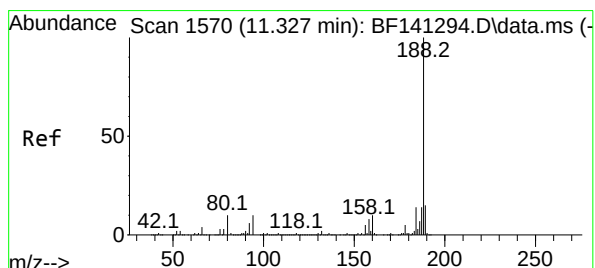
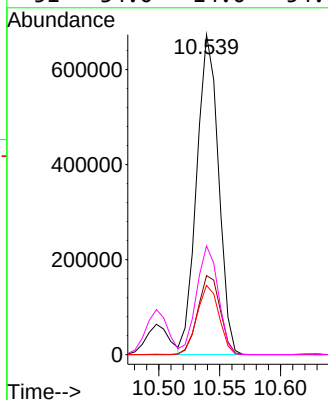
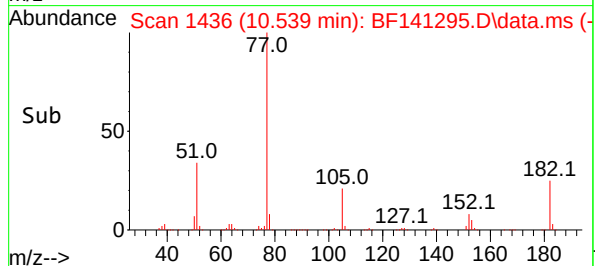
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion: 77 Resp: 84179
Ion Ratio Lower Upper
77 100
182 24.7 5.1 45.1
105 21.7 1.8 41.8
51 34.0 14.0 54.0

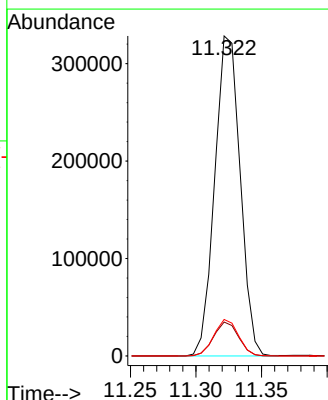
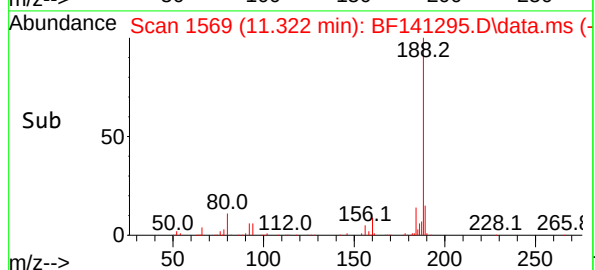
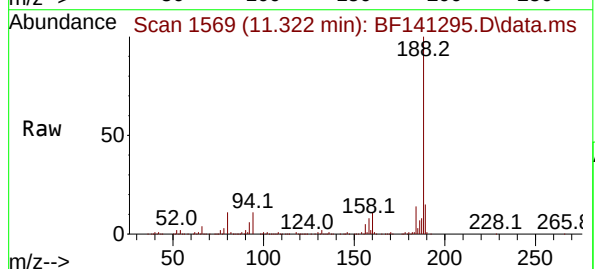
Manual Integrations
APPROVED

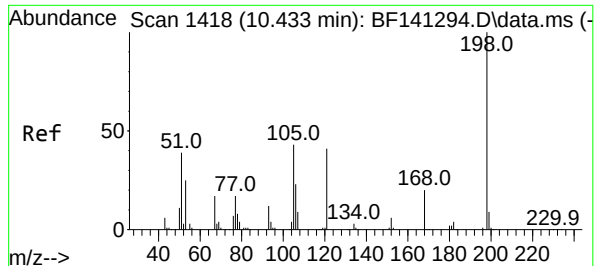
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

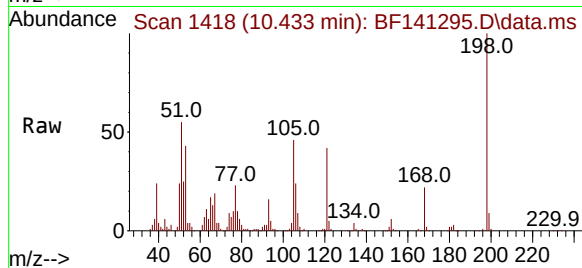
Tgt Ion:188 Resp: 442506
Ion Ratio Lower Upper
188 100
94 10.6 7.8 11.6
80 11.4 8.2 12.4





#65
4,6-Dinitro-2-methylphenol
Concen: 54.710 ng
RT: 10.433 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

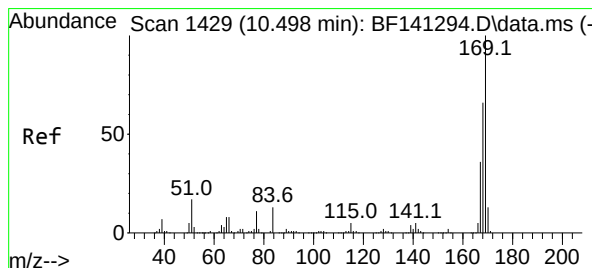
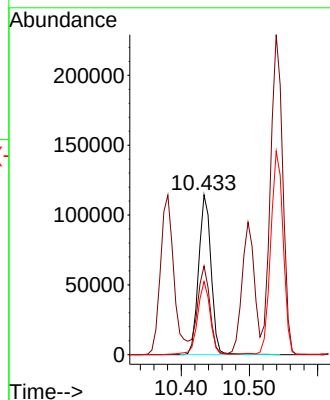
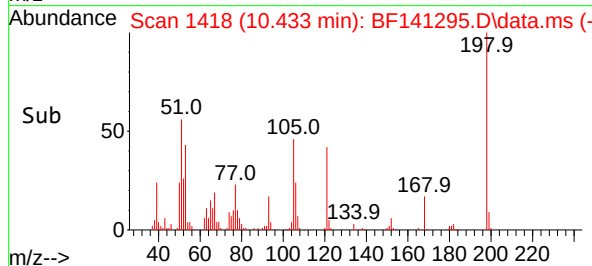
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion:198 Resp: 144574
Ion Ratio Lower Upper
198 100
51 55.4 33.4 73.4
105 45.8 24.4 64.4

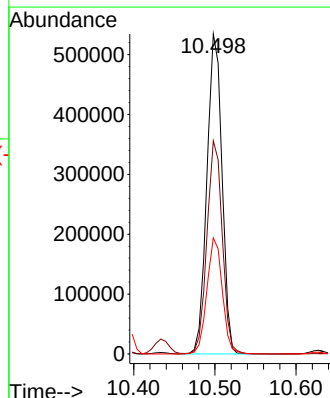
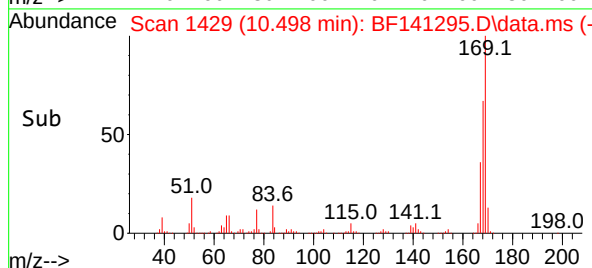
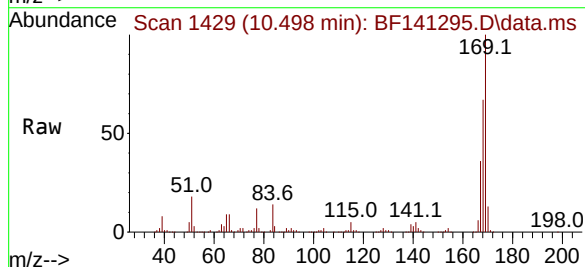
Manual Integrations
APPROVED

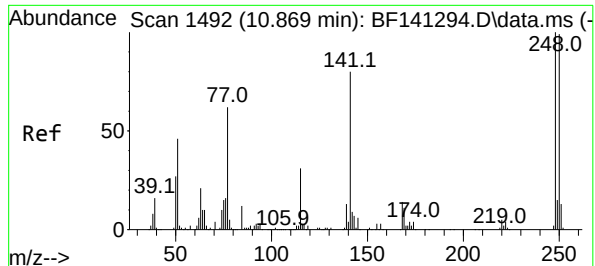
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#66
n-Nitrosodiphenylamine
Concen: 47.968 ng
RT: 10.498 min Scan# 1429
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

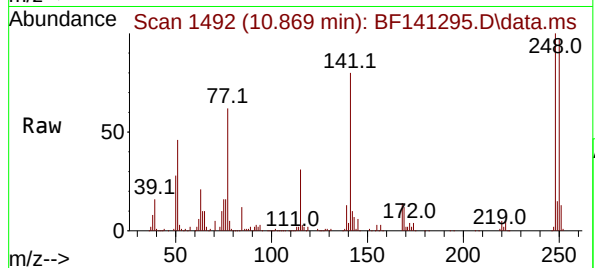
Tgt Ion:169 Resp: 688202
Ion Ratio Lower Upper
169 100
168 66.6 53.0 79.4
167 36.2 28.8 43.2





#67
4-Bromophenyl-phenylether
Concen: 48.745 ng
RT: 10.869 min Scan# 1492
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

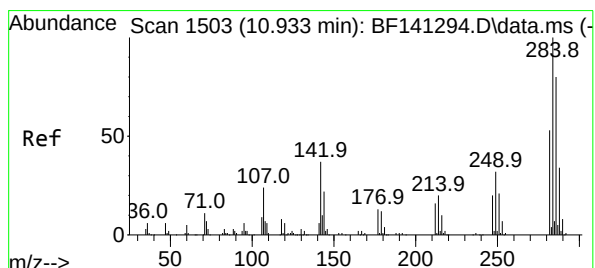
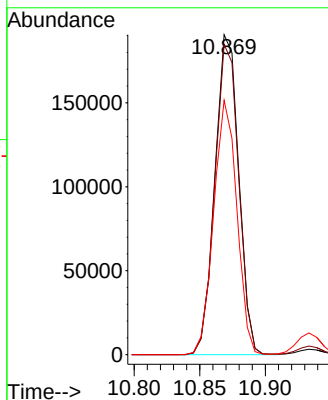
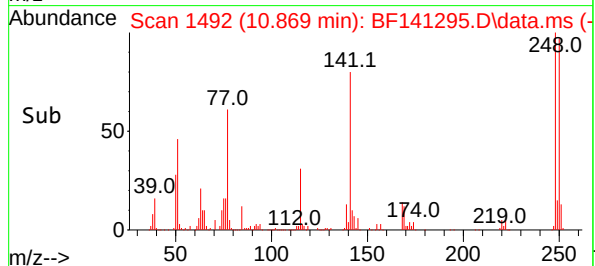
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



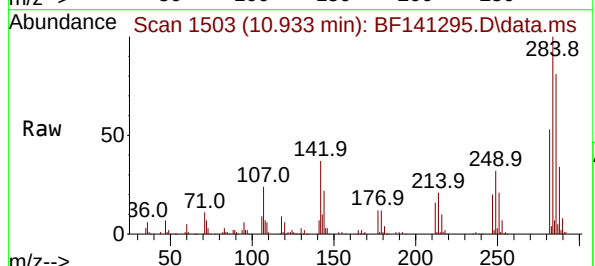
Tgt Ion:248 Resp: 24112
Ion Ratio Lower Upper
248 100
250 97.0 79.0 118.4
141 79.5 63.7 95.5

Manual Integrations
APPROVED

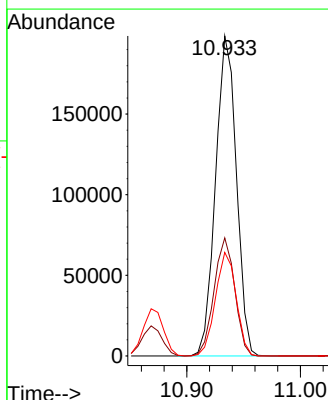
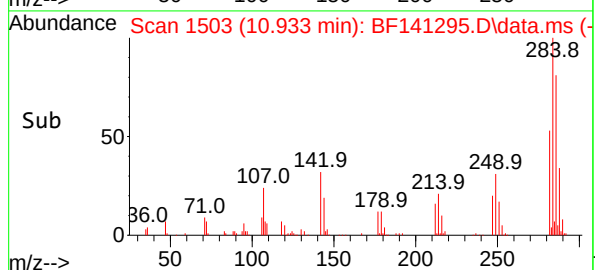
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

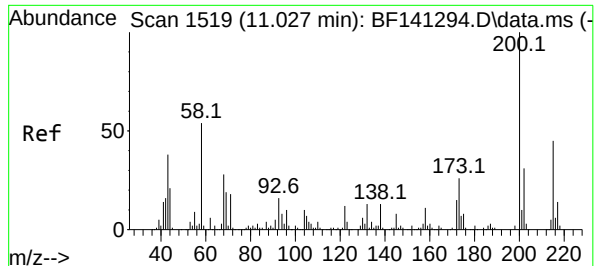


#68
Hexachlorobenzene
Concen: 48.250 ng
RT: 10.933 min Scan# 1503
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11



Tgt Ion:284 Resp: 253174
Ion Ratio Lower Upper
284 100
142 36.9 29.5 44.3
249 32.3 25.4 38.2





#69

Atrazine

Concen: 49.457 ng

RT: 11.027 min Scan# 1519

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDIC050

Tgt Ion:200 Resp: 23799

Ion Ratio Lower Upper

200 100

173 25.9 5.9 45.9

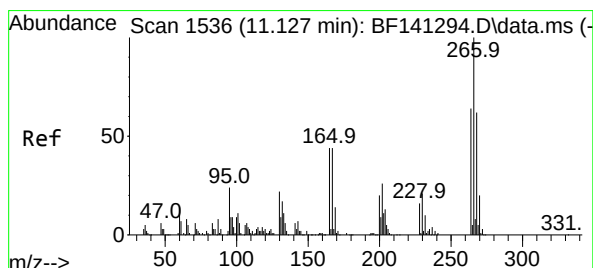
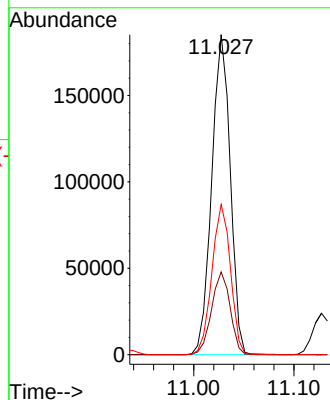
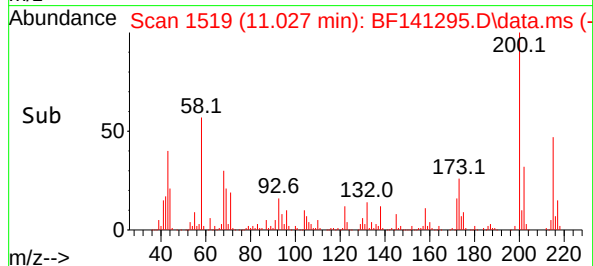
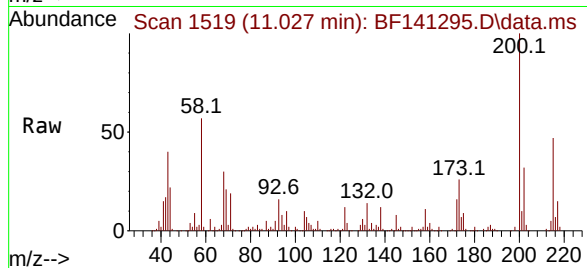
215 46.9 25.2 65.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#70

Pentachlorophenol

Concen: 52.515 ng

RT: 11.127 min Scan# 1536

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

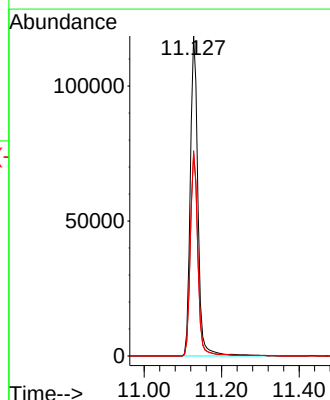
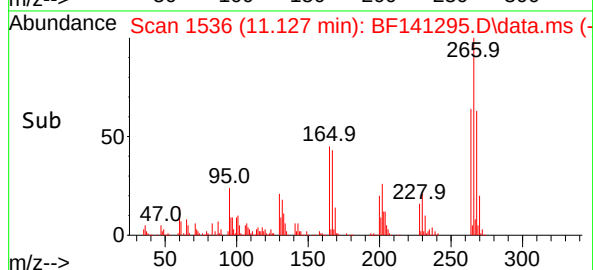
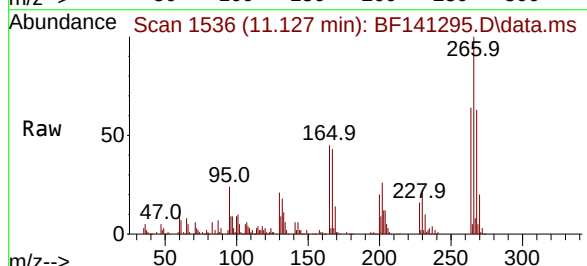
Tgt Ion:266 Resp: 161568

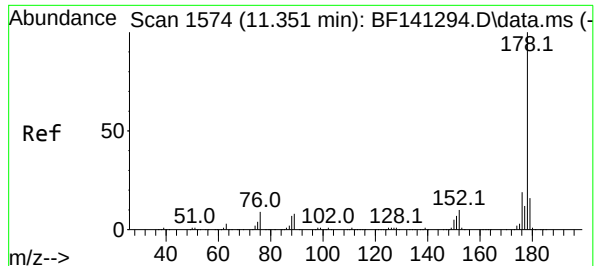
Ion Ratio Lower Upper

266 100

268 63.3 49.9 74.9

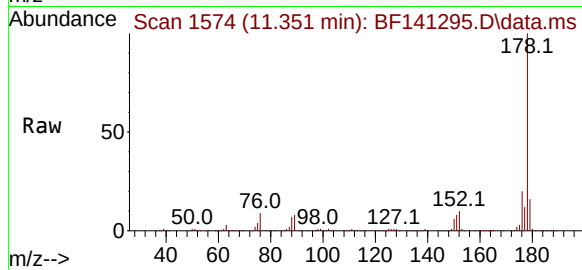
264 64.1 51.0 76.4





#71
Phenanthrene
Concen: 46.903 ng
RT: 11.351 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

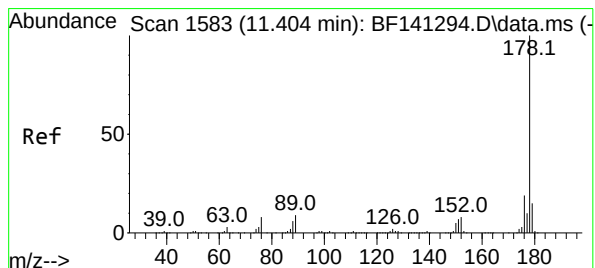
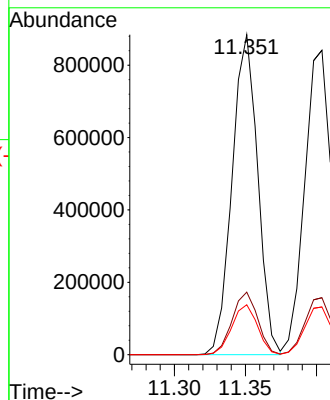
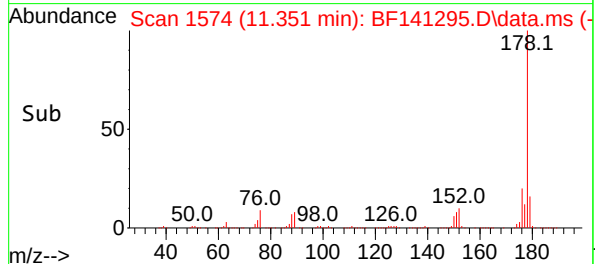
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion:178 Resp: 1114920
Ion Ratio Lower Upper
178 100
176 19.5 15.3 22.9
179 15.6 12.5 18.7

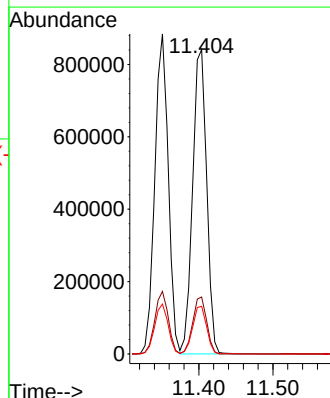
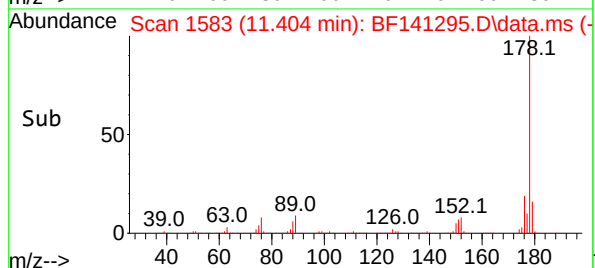
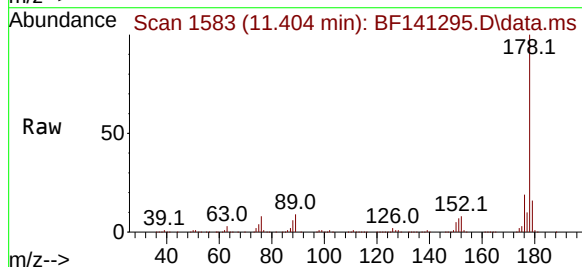
Manual Integrations
APPROVED

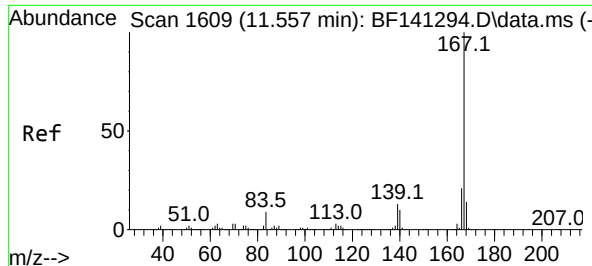
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#72
Anthracene
Concen: 47.686 ng
RT: 11.404 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

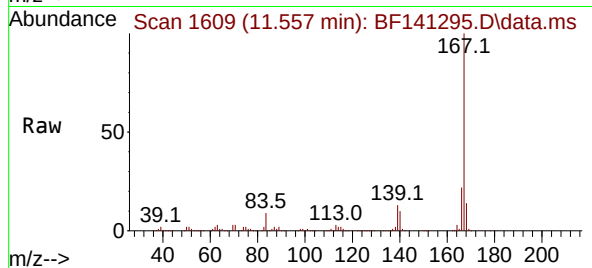
Tgt Ion:178 Resp: 1105681
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.6 12.3 18.5





#73
Carbazole
Concen: 47.304 ng
RT: 11.557 min Scan# 1609
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

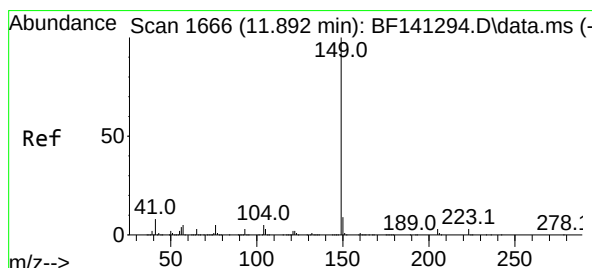
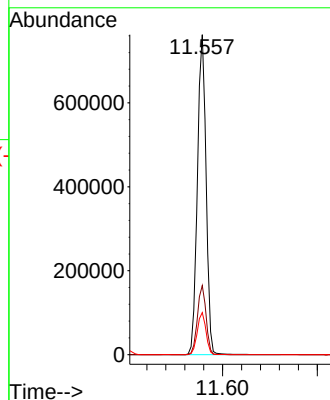
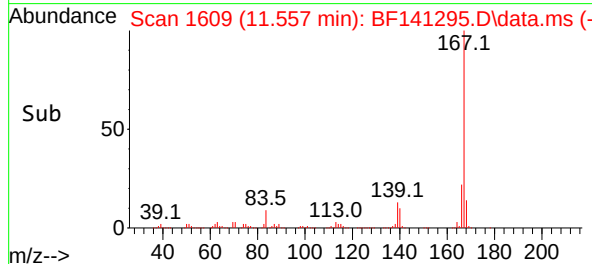
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion:167 Resp: 97154
Ion Ratio Lower Upper
167 100
166 21.6 17.0 25.6
139 13.1 10.6 16.0

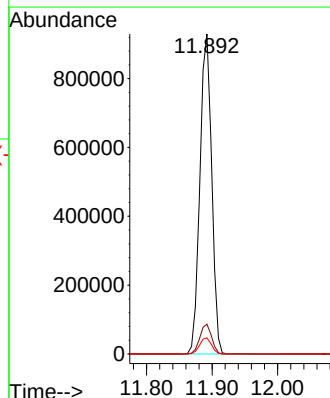
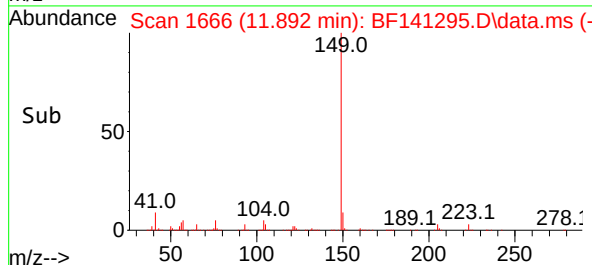
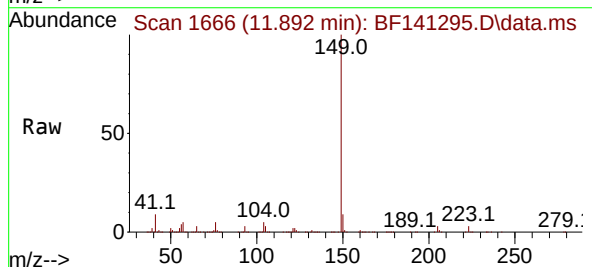
Manual Integrations
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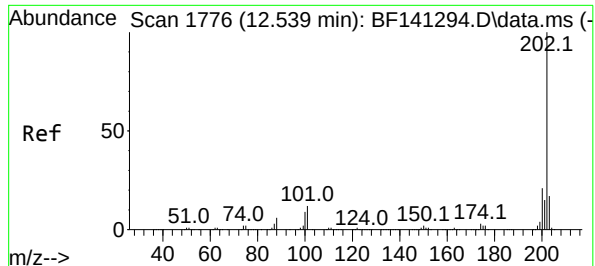
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#74
Di-n-butylphthalate
Concen: 46.961 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

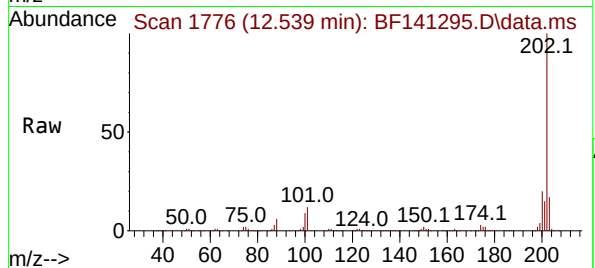
Tgt Ion:149 Resp: 1162607
Ion Ratio Lower Upper
149 100
150 9.3 7.4 11.2
104 5.0 3.9 5.9





#75
Fluoranthene
Concen: 45.923 ng
RT: 12.539 min Scan# 1776
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

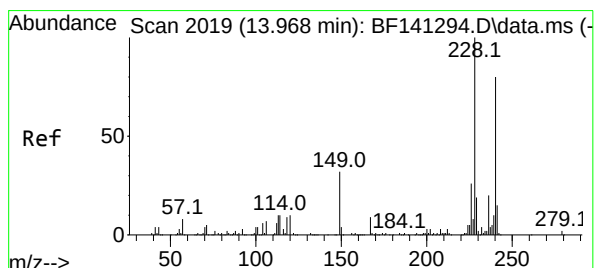
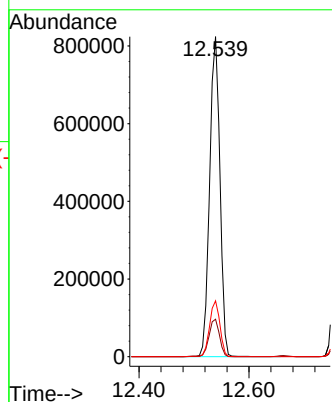
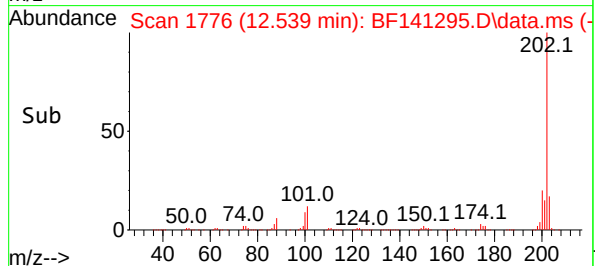
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion:202 Resp: 1065514
Ion Ratio Lower Upper
202 100
101 11.7 0.0 31.7
203 17.5 0.0 37.5

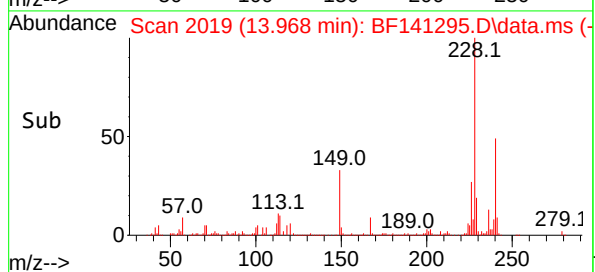
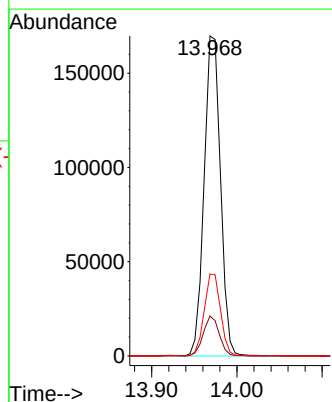
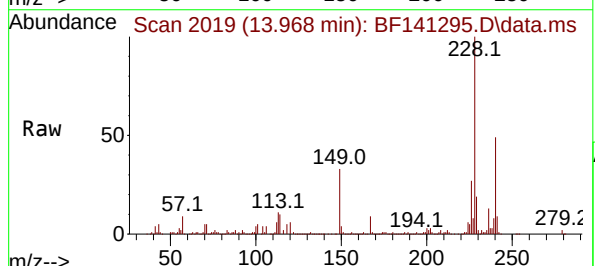
Manual Integrations
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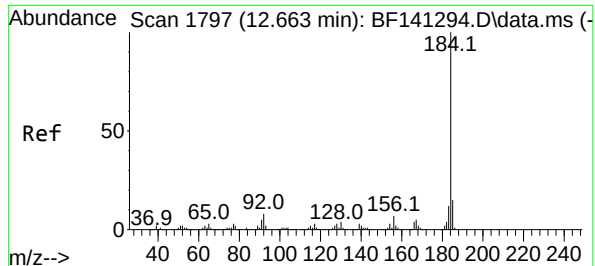
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 2019
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

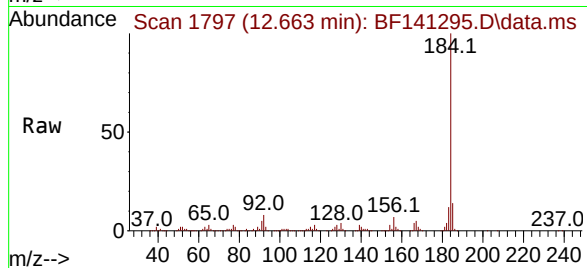
Tgt Ion:240 Resp: 226571
Ion Ratio Lower Upper
240 100
120 12.5 10.0 15.0
236 25.6 19.7 29.5





#77
Benzidine
Concen: 74.515 ng
RT: 12.663 min Scan# 1797
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

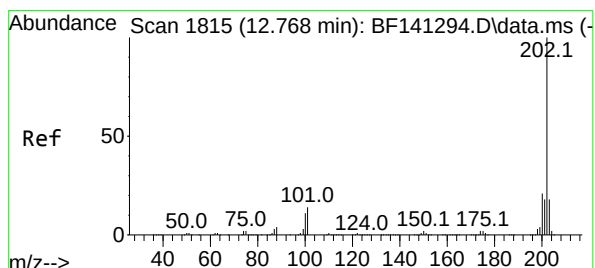
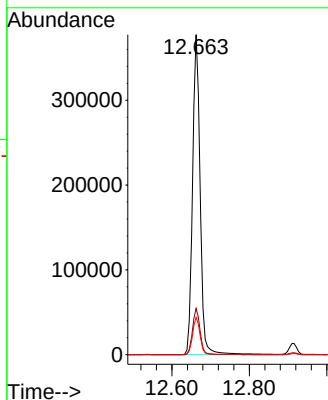
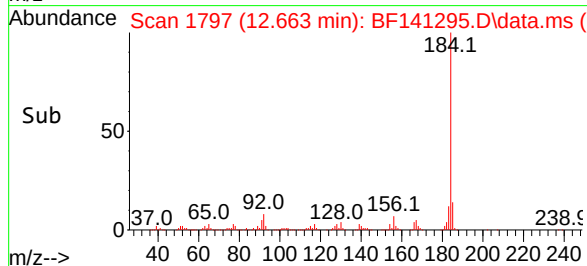
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



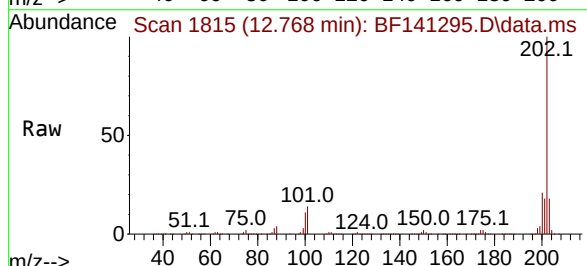
Tgt Ion:184 Resp: 513358
Ion Ratio Lower Upper
184 100
185 14.5 11.9 17.9
183 11.7 9.5 14.3

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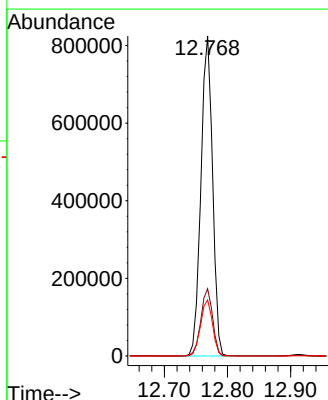
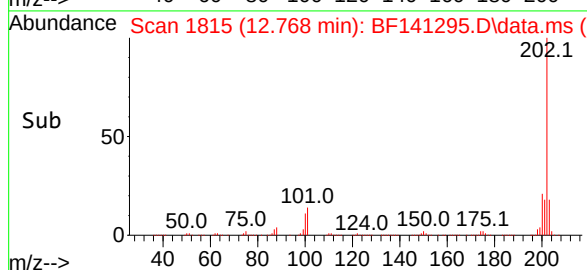
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

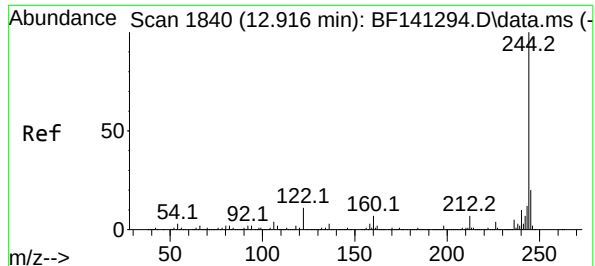


#78
Pyrene
Concen: 48.410 ng
RT: 12.768 min Scan# 1815
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11



Tgt Ion:202 Resp: 1059044
Ion Ratio Lower Upper
202 100
200 21.0 17.0 25.4
203 17.5 14.3 21.5





#79

Terphenyl-d14

Concen: 95.222 ng

RT: 12.916 min Scan# 1840

Delta R.T. 0.000 min

Lab File: BF141295.D

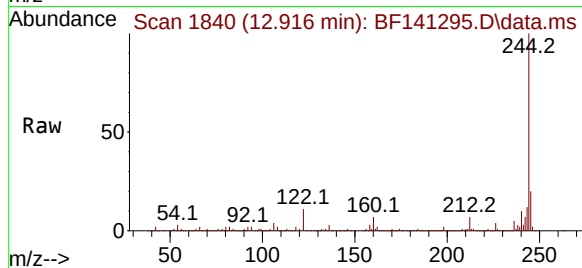
Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050



Tgt Ion:244 Resp: 140210

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

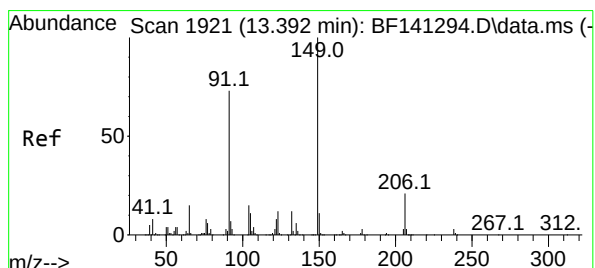
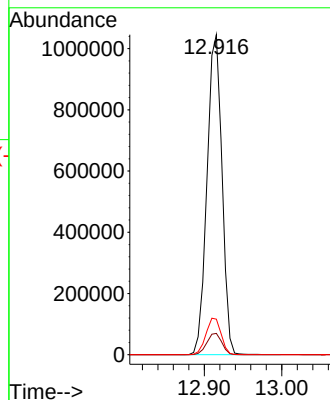
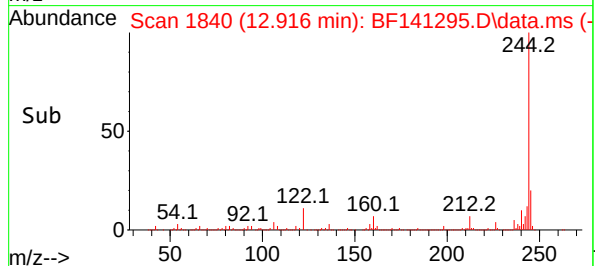
122 11.1 8.8 13.2

Manual Integrations

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#80

Butylbenzylphthalate

Concen: 49.222 ng

RT: 13.392 min Scan# 1921

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

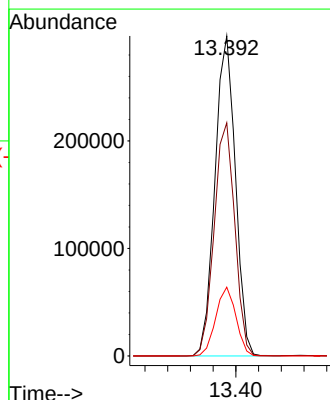
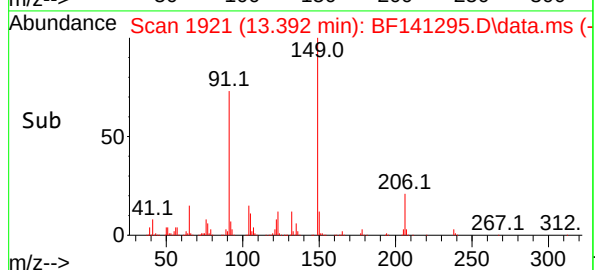
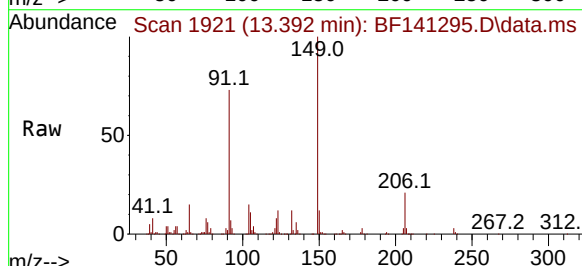
Tgt Ion:149 Resp: 371889

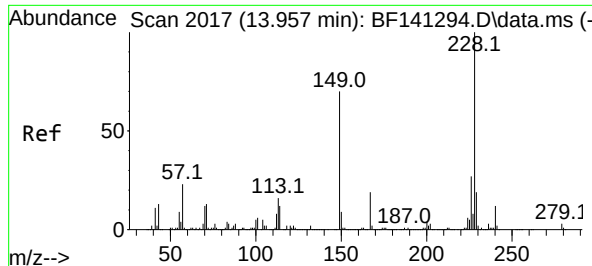
Ion Ratio Lower Upper

149 100

91 72.9 58.6 87.8

206 21.5 16.7 25.1





#81

Benzo(a)anthracene

Concen: 50.158 ng

RT: 13.963 min Scan# 20

Delta R.T. 0.006 min

Lab File: BF141295.D

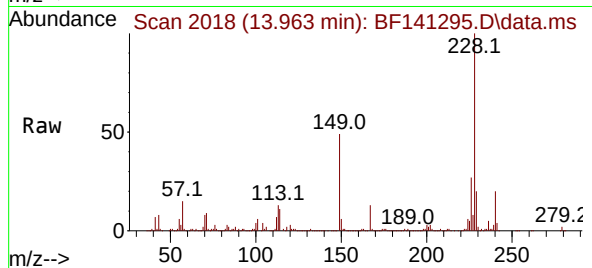
Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050



Tgt Ion:228 Resp: 77892

Ion Ratio Lower Upper

228 100

226 26.7 21.4 32.2

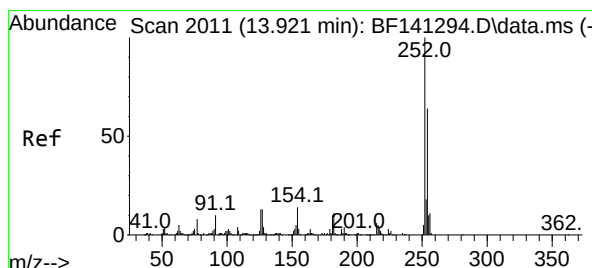
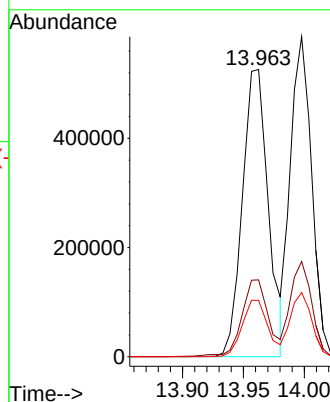
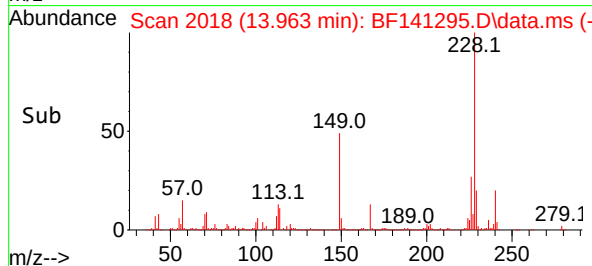
229 19.6 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#82

3,3'-Dichlorobenzidine

Concen: 55.645 ng

RT: 13.921 min Scan# 2011

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

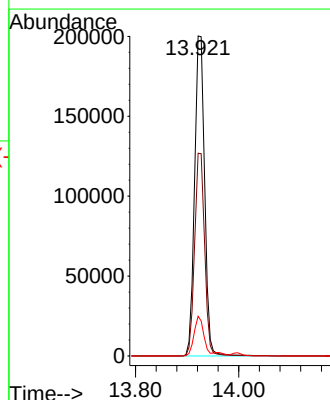
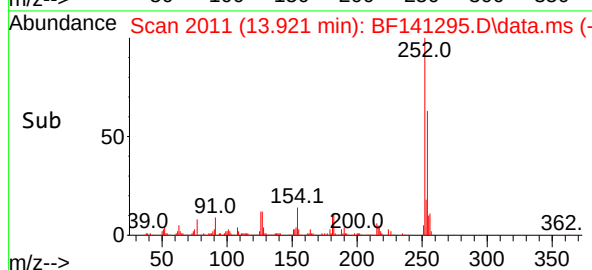
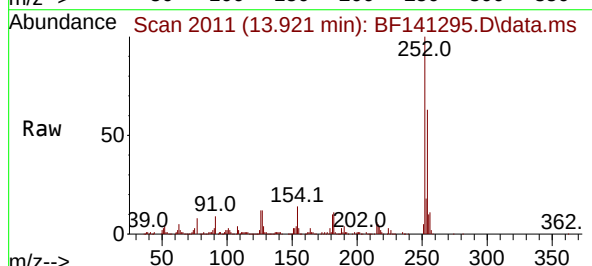
Tgt Ion:252 Resp: 270572

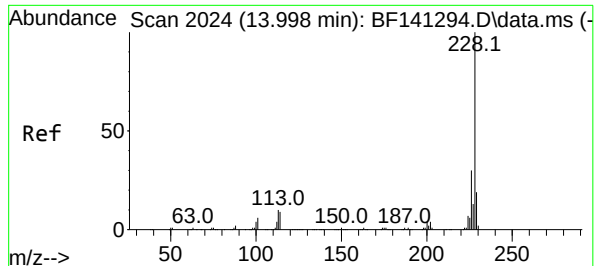
Ion Ratio Lower Upper

252 100

254 63.3 51.3 76.9

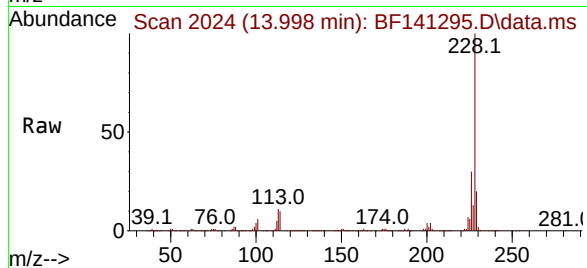
126 12.4 10.0 15.0





#83
Chrysene
Concen: 49.829 ng
RT: 13.998 min Scan# 2024
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

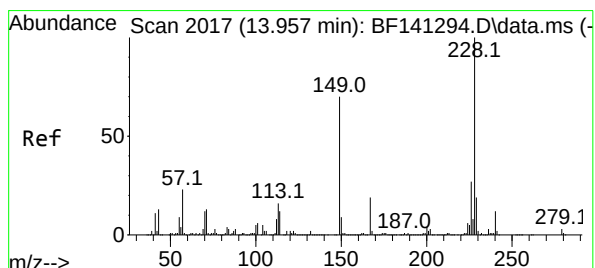
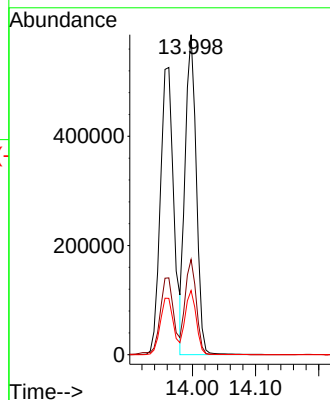
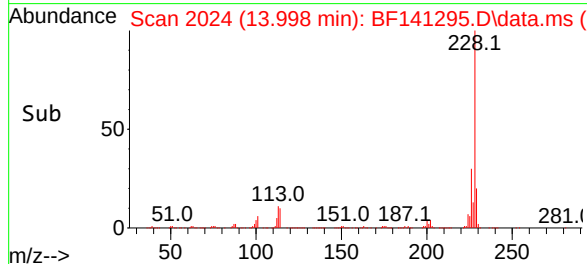
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



Tgt Ion:228 Resp: 717569
Ion Ratio Lower Upper
228 100
226 29.7 24.1 36.1
229 20.1 15.6 23.4

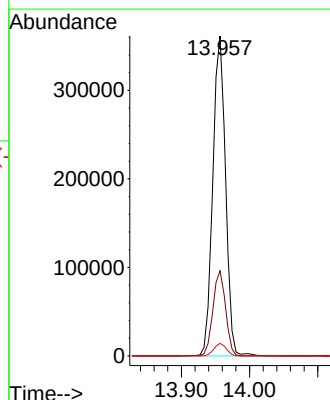
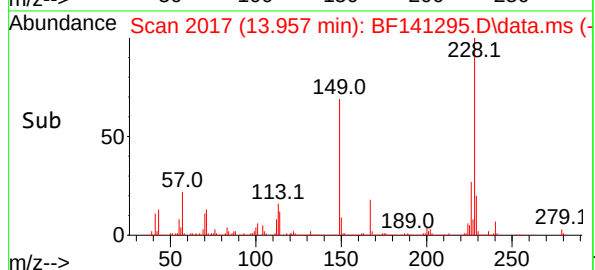
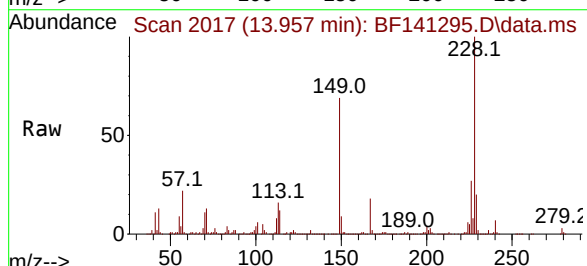
Manual Integrations
APPROVED

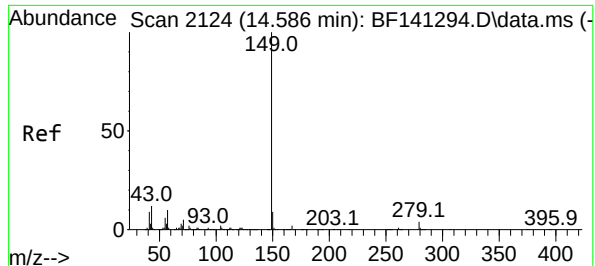
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#84
Bis(2-ethylhexyl)phthalate
Concen: 49.620 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

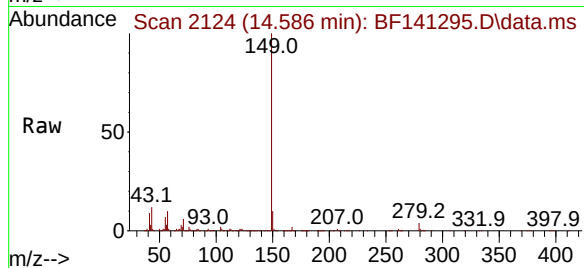
Tgt Ion:149 Resp: 470441
Ion Ratio Lower Upper
149 100
167 26.6 21.8 32.8
279 3.9 3.3 4.9





#85
Di-n-octyl phthalate
Concen: 52.127 ng
RT: 14.586 min Scan# 2124
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

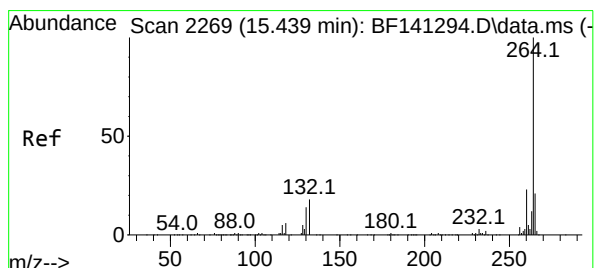
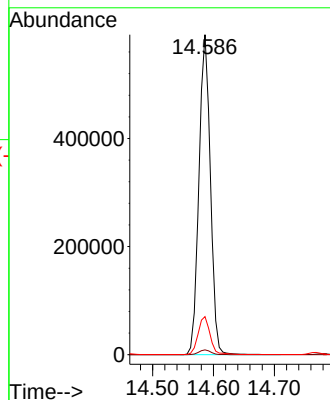
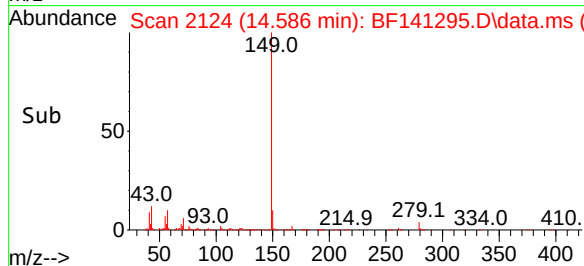
Instrument :
BNA_F
ClientSampleId :
SSTDICC050



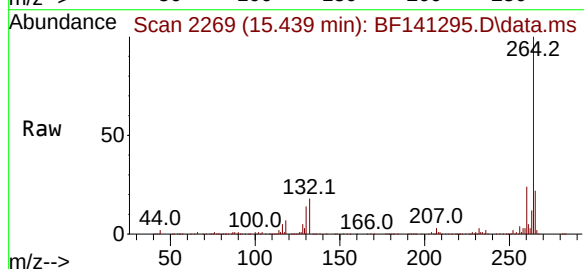
Tgt Ion:149 Resp: 77303
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 12.4 9.8 14.8

Manual Integrations
APPROVED

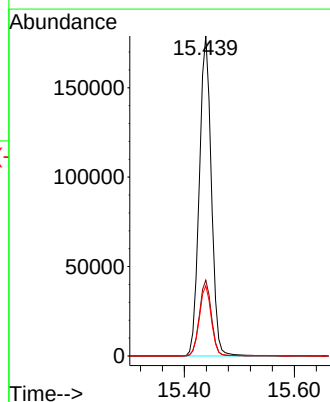
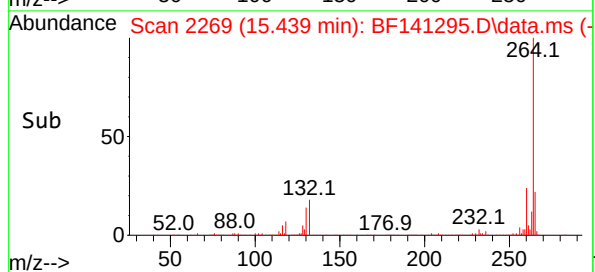
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

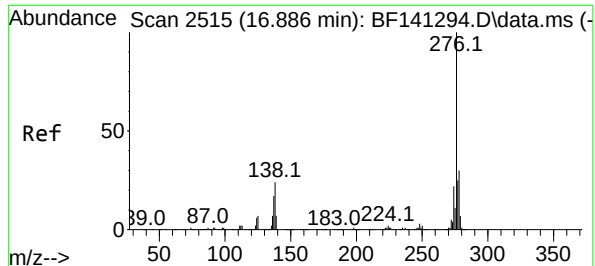


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.439 min Scan# 2269
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11



Tgt Ion:264 Resp: 272084
Ion Ratio Lower Upper
264 100
260 23.7 18.6 27.8
265 22.0 16.7 25.1





#87
Indeno(1,2,3-cd)pyrene
Concen: 51.584 ng
RT: 16.892 min Scan# 2156
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

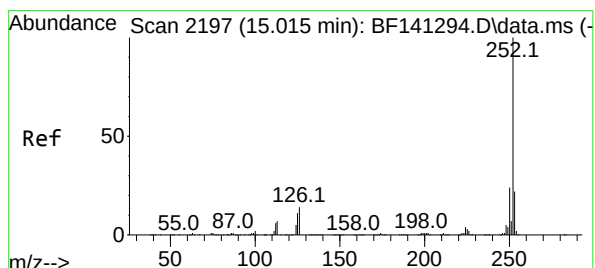
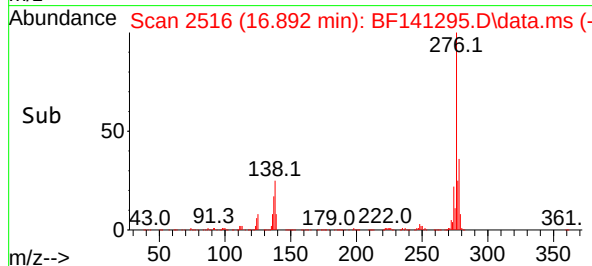
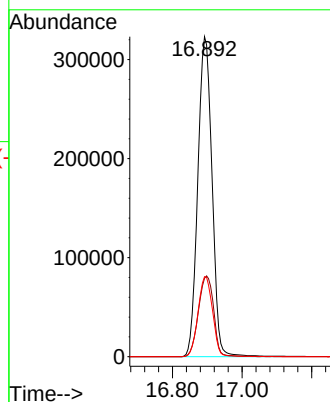
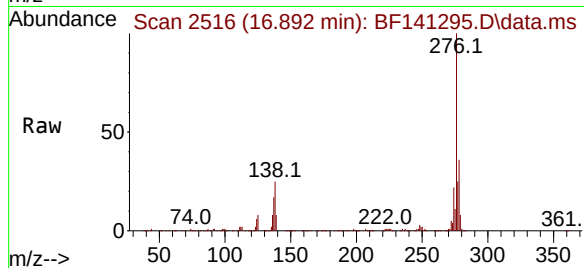
ClientSampleId :

SSTDICC050

Tgt Ion	Ratio	Lower	Upper
276	100		
138	27.0	21.7	32.5
277	25.5	20.3	30.5

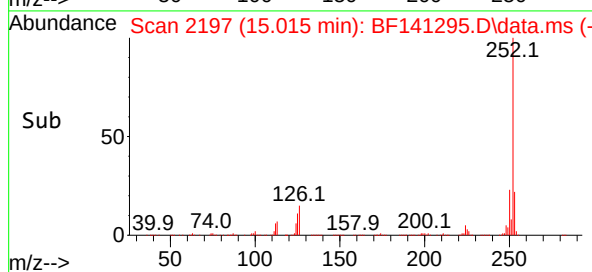
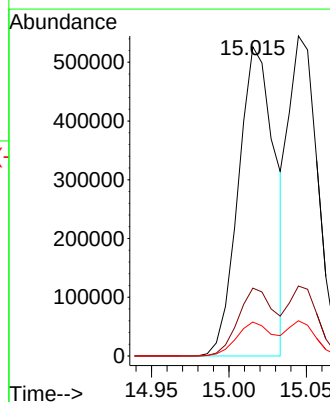
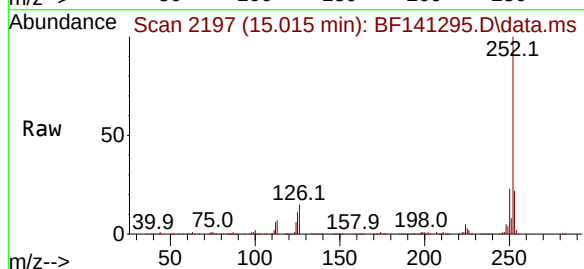
Manual Integrations
APPROVED

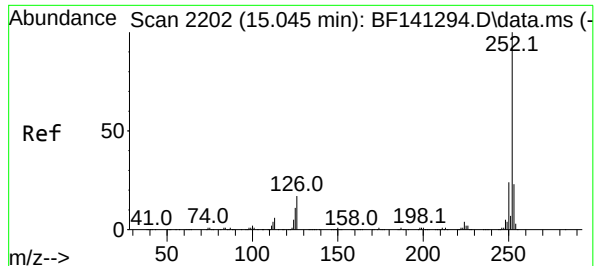
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#88
Benzo(b)fluoranthene
Concen: 50.916 ng
RT: 15.015 min Scan# 2197
Delta R.T. 0.000 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.4	26.2
125	11.0	8.6	12.8





#89

Benzo(k)fluoranthene

Concen: 47.153 ng

RT: 15.045 min Scan# 21

Delta R.T. 0.000 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

Instrument :

BNA_F

ClientSampleId :

SSTDICC050

Tgt Ion:252 Resp: 713500

Ion Ratio Lower Upper

252 100

253 21.8 17.6 26.4

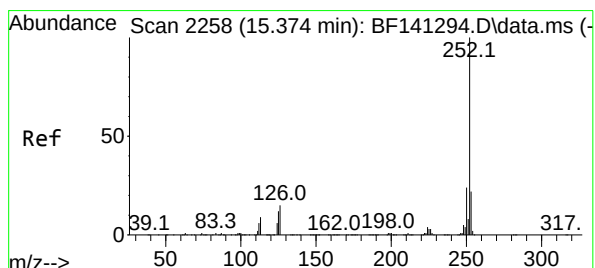
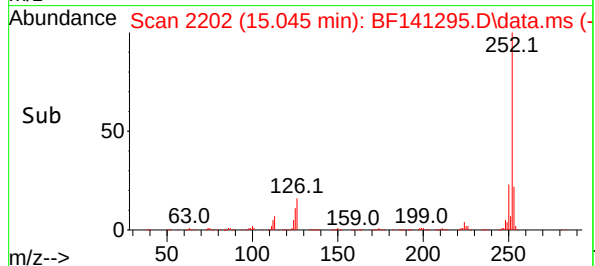
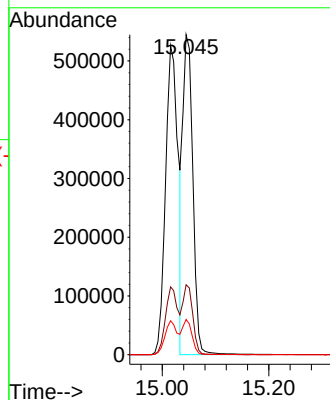
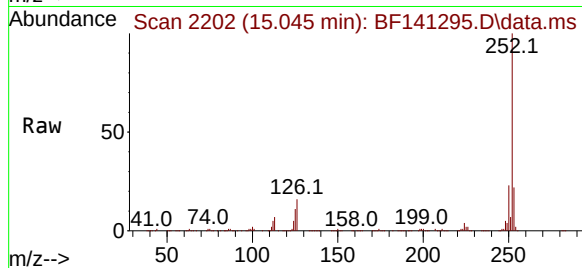
125 11.0 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#90

Benzo(a)pyrene

Concen: 49.985 ng

RT: 15.380 min Scan# 2259

Delta R.T. 0.006 min

Lab File: BF141295.D

Acq: 29 Jan 2025 16:11

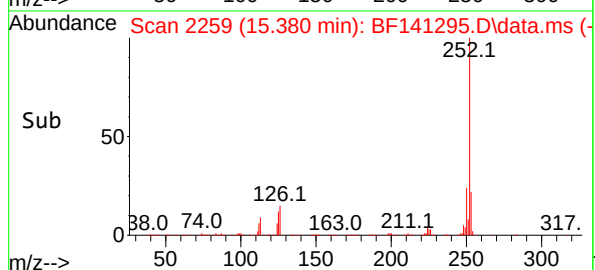
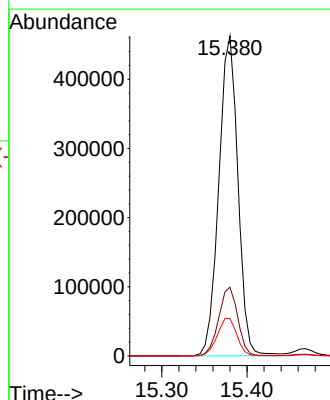
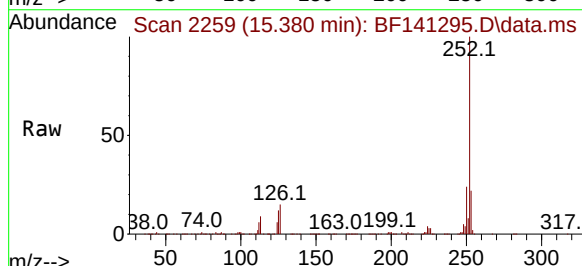
Tgt Ion:252 Resp: 721834

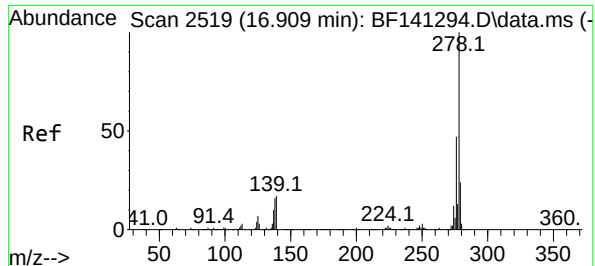
Ion Ratio Lower Upper

252 100

253 21.5 17.2 25.8

125 11.7 9.4 14.2





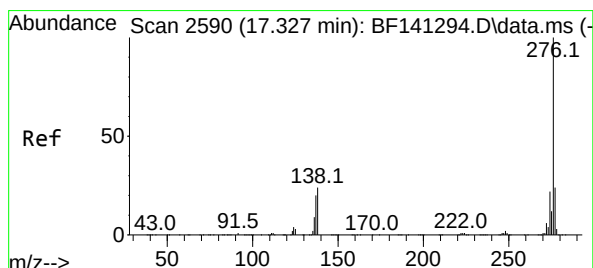
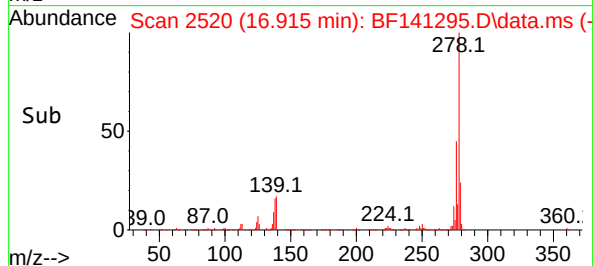
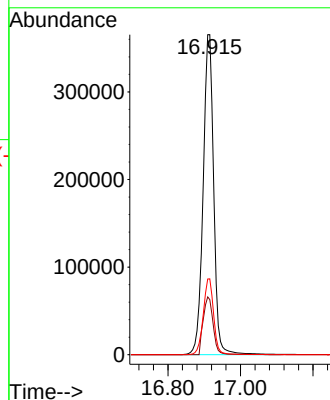
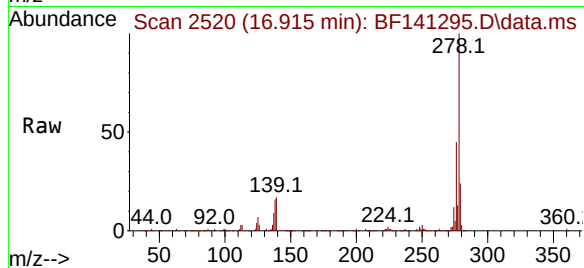
#91
Dibenzo(a,h)anthracene
Concen: 51.907 ng
RT: 16.915 min Scan# 2519
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Instrument :
BNA_F
ClientSampleId :
SSTDICC050

Tgt Ion:278 Resp: 73939
Ion Ratio Lower Upper
278 100
139 17.2 13.9 20.9
279 23.7 18.8 28.2

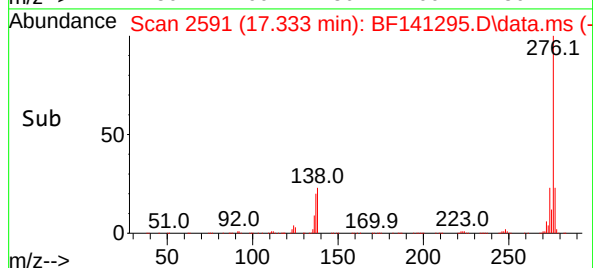
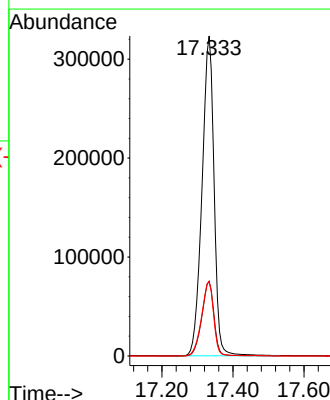
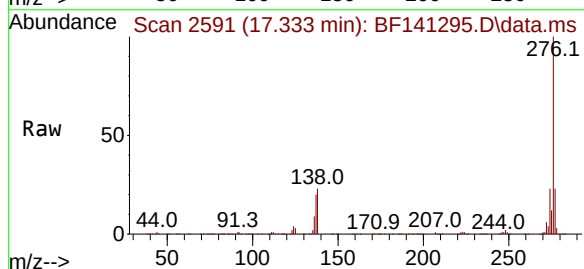
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#92
Benzo(g,h,i)perylene
Concen: 50.990 ng
RT: 17.333 min Scan# 2591
Delta R.T. 0.006 min
Lab File: BF141295.D
Acq: 29 Jan 2025 16:11

Tgt Ion:276 Resp: 764064
Ion Ratio Lower Upper
276 100
277 23.4 19.2 28.8
138 23.2 19.0 28.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
 Data File : BF141296.D
 Acq On : 29 Jan 2025 16:38
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 17:20:45 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 17:14:44 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	125203	20.000	ng	0.00
21) Naphthalene-d8	8.086	136	490777	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	260269	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	434671	20.000	ng	0.00
76) Chrysene-d12	13.974	240	225615	20.000	ng	0.00
86) Perylene-d12	15.451	264	265921	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	952391	113.729	ng	0.00
7) Phenol-d6	6.434	99	1210477	113.542	ng	0.00
23) Nitrobenzene-d5	7.369	82	1098197	115.711	ng	0.00
42) 2,4,6-Tribromophenol	10.627	330	279105	113.824	ng	0.00
45) 2-Fluorobiphenyl	9.163	172	1824372	102.411	ng	0.00
79) Terphenyl-d14	12.916	244	1665591	109.453	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.487	88	213805	58.657	ng	99
3) Pyridine	3.216	79	527201	60.698	ng	99
4) n-Nitrosodimethylamine	3.181	42	305314	61.956	ng	99
6) Aniline	6.463	93	506937	55.493	ng	# 89
8) 2-Chlorophenol	6.587	128	509043	56.606	ng	98
9) Benzaldehyde	6.351	77	314238	48.677	ng	98
10) Phenol	6.445	94	640034	56.549	ng	94
11) bis(2-Chloroethyl)ether	6.539	93	499321	58.245	ng	99
12) 1,3-Dichlorobenzene	6.739	146	553756	55.698	ng	99
13) 1,4-Dichlorobenzene	6.816	146	558572	55.945	ng	100
14) 1,2-Dichlorobenzene	6.975	146	513179	54.417	ng	99
15) Benzyl Alcohol	6.945	79	422722	58.473	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.081	45	859130	57.194	ng	99
17) 2-Methylphenol	7.057	107	420597	58.211	ng	99
18) Hexachloroethane	7.316	117	210746	57.649	ng	97
19) n-Nitroso-di-n-propyla...	7.222	70	355036	56.162	ng	97
20) 3+4-Methylphenols	7.210	107	496888	54.781	ng	98
22) Acetophenone	7.216	105	651575	53.679	ng	99
24) Nitrobenzene	7.386	77	572234	58.138	ng	99
25) Isophorone	7.622	82	953671	58.383	ng	98
26) 2-Nitrophenol	7.698	139	280785	61.652	ng	99
27) 2,4-Dimethylphenol	7.739	122	350784m	60.006	ng	
28) bis(2-Chloroethoxy)met...	7.833	93	605644	57.853	ng	99
29) 2,4-Dichlorophenol	7.939	162	421748	58.315	ng	99
30) 1,2,4-Trichlorobenzene	8.022	180	465841	55.787	ng	99
31) Naphthalene	8.104	128	1475900	54.933	ng	99
32) Benzoic acid	7.863	122	380664m	76.193	ng	
33) 4-Chloroaniline	8.157	127	513149	56.786	ng	99
34) Hexachlorobutadiene	8.222	225	275524	56.533	ng	100
35) Caprolactam	8.533	113	141023	60.337	ng	99
36) 4-Chloro-3-methylphenol	8.633	107	452438	58.389	ng	97
37) 2-Methylnaphthalene	8.792	142	941153	55.126	ng	98
38) 1-Methylnaphthalene	8.892	142	917389	54.632	ng	100
40) 1,2,4,5-Tetrachloroben...	8.963	216	430239	56.609	ng	100
41) Hexachlorocyclopentadiene	8.945	237	141387	66.154	ng	100
43) 2,4,6-Trichlorophenol	9.075	196	288290	58.588	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
 Data File : BF141296.D
 Acq On : 29 Jan 2025 16:38
 Operator : RC/JU
 Sample : SSTDICC060
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 29 17:20:45 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 17:14:44 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	314912	59.000	ng	99
46) 1,1'-Biphenyl	9.263	154	1139946	54.084	ng	99
47) 2-Chloronaphthalene	9.286	162	902561	55.247	ng	99
48) 2-Nitroaniline	9.380	65	300339	59.861	ng	98
49) Acenaphthylene	9.698	152	1258733	54.924	ng	100
50) Dimethylphthalate	9.569	163	1012298	56.075	ng	100
51) 2,6-Dinitrotoluene	9.627	165	241241	58.050	ng	98
52) Acenaphthene	9.875	154	921519	56.639	ng	100
53) 3-Nitroaniline	9.792	138	232680	56.245	ng	99
54) 2,4-Dinitrophenol	9.898	184	132244	84.109	ng	95
55) Dibenzofuran	10.045	168	1202027	54.629	ng	99
56) 4-Nitrophenol	9.951	139	190620	66.120	ng	99
57) 2,4-Dinitrotoluene	10.027	165	315221	58.312	ng	97
58) Fluorene	10.386	166	915246	53.236	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.163	232	252964	60.106	ng	100
60) Diethylphthalate	10.263	149	983788	55.897	ng	100
61) 4-Chlorophenyl-phenyle...	10.380	204	445841	53.136	ng	99
62) 4-Nitroaniline	10.410	138	242716	61.216	ng	99
63) Azobenzene	10.539	77	996603	56.821	ng	99
65) 4,6-Dinitro-2-methylph...	10.439	198	174248	71.103	ng	99
66) n-Nitrosodiphenylamine	10.504	169	800147	55.423	ng	99
67) 4-Bromophenyl-phenylether	10.874	248	286647	57.957	ng	96
68) Hexachlorobenzene	10.933	284	302508	57.366	ng	99
69) Atrazine	11.033	200	306524	66.863	ng	99
70) Pentachlorophenol	11.127	266	194335	65.443	ng	99
71) Phenanthrene	11.351	178	1316980	54.311	ng	100
72) Anthracene	11.404	178	1298334	54.763	ng	99
73) Carbazole	11.557	167	1173330	55.874	ng	99
74) Di-n-butylphthalate	11.892	149	1410222	55.325	ng	100
75) Fluoranthene	12.539	202	1279995	52.878	ng	99
77) Benzidine	12.663	184	490009	67.692	ng	100
78) Pyrene	12.768	202	1284820	57.717	ng	100
80) Butylbenzylphthalate	13.392	149	465533	60.745	ng	99
81) Benzo(a)anthracene	13.962	228	917219	57.742	ng	99
82) 3,3'-Dichlorobenzidine	13.927	252	315503	64.819	ng	100
83) Chrysene	14.004	228	841120	58.239	ng	100
84) Bis(2-ethylhexyl)phtha...	13.957	149	564642	57.438	ng	99
85) Di-n-octyl phthalate	14.598	149	951473	64.953	ng	99
87) Indeno(1,2,3-cd)pyrene	16.909	276	1054987	61.732	ng	99
88) Benzo(b)fluoranthene	15.033	252	971433	56.615	ng	99
89) Benzo(k)fluoranthene	15.062	252	845842	55.934	ng	100
90) Benzo(a)pyrene	15.392	252	838283	58.588	ng	99
91) Dibenzo(a,h)anthracene	16.927	278	854214	62.119	ng	98
92) Benzo(g,h,i)perylene	17.351	276	881804	61.510	ng	100

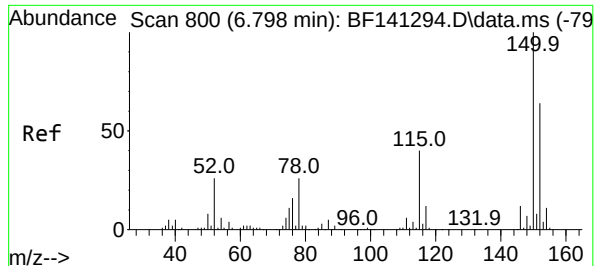
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Manual Integrations APPROVED

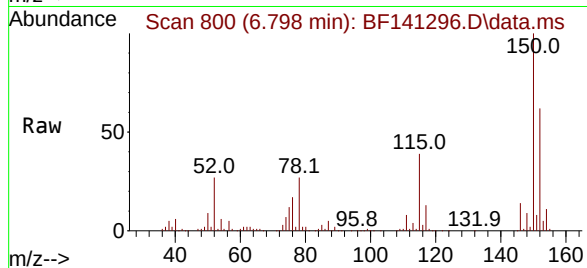
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

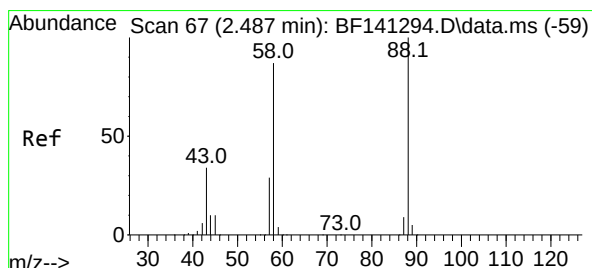
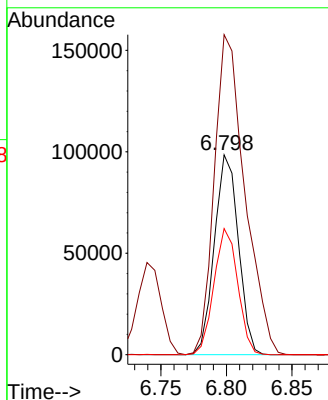
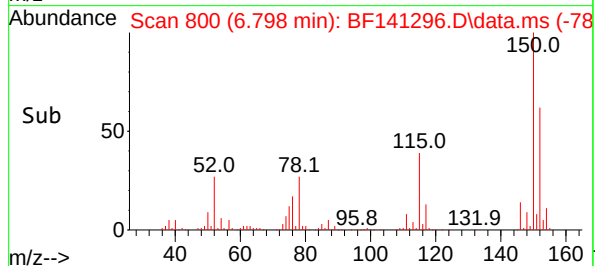
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



Tgt Ion:152 Resp: 125200
Ion Ratio Lower Upper
152 100
150 160.2 125.9 188.9
115 63.2 49.7 74.5

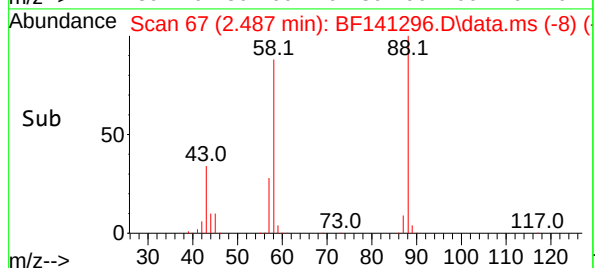
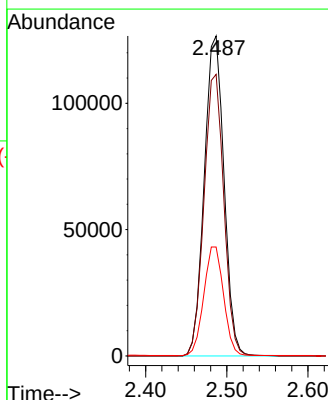
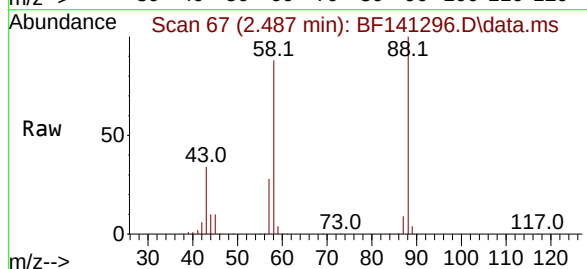
Manual Integrations
APPROVED

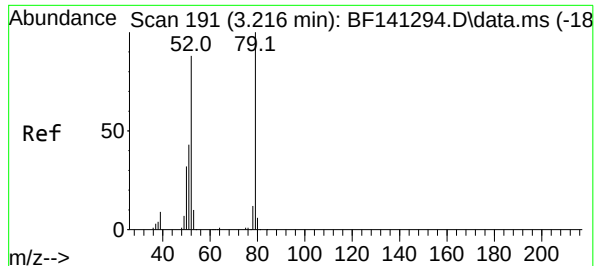
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#2
1,4-Dioxane
Concen: 58.657 ng
RT: 2.487 min Scan# 67
Delta R.T. -0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

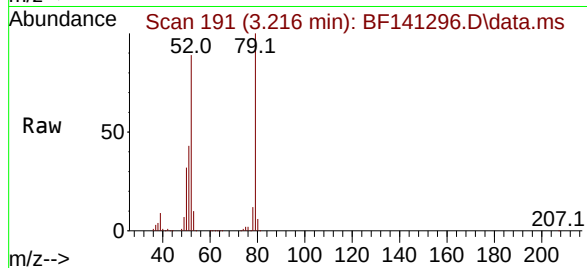
Tgt Ion: 88 Resp: 213805
Ion Ratio Lower Upper
88 100
58 88.5 70.2 105.4
43 34.0 27.6 41.4





#3
Pyridine
Concen: 60.698 ng
RT: 3.216 min Scan# 191
Delta R.T. -0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

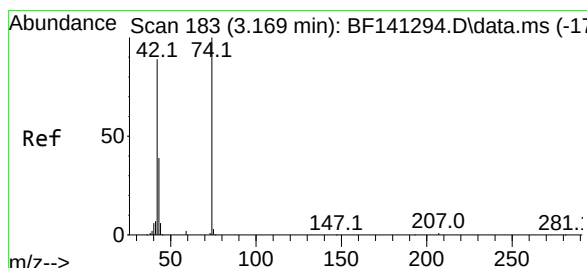
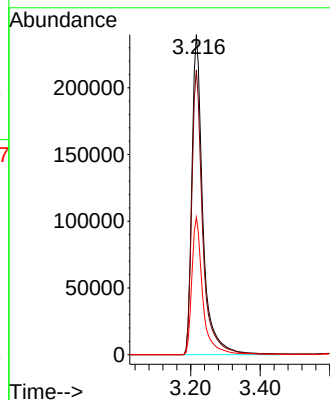
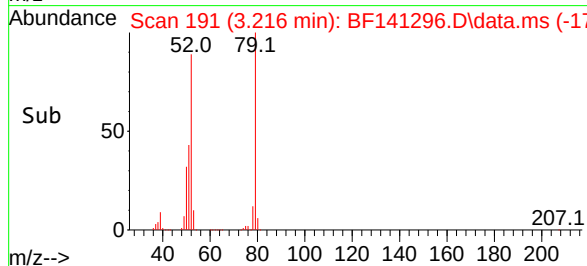
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



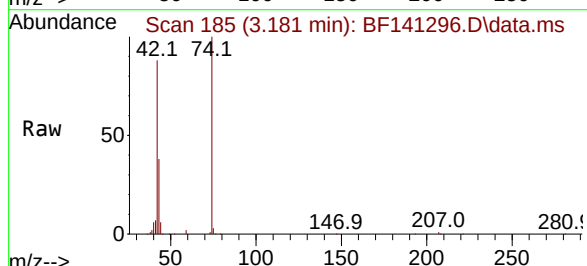
Tgt Ion: 79 Resp: 52720
Ion Ratio Lower Upper
79 100
52 89.0 70.3 105.5
51 42.9 34.3 51.5

Manual Integrations
APPROVED

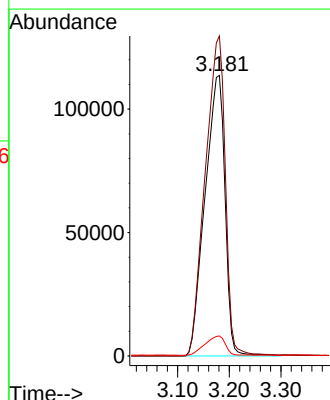
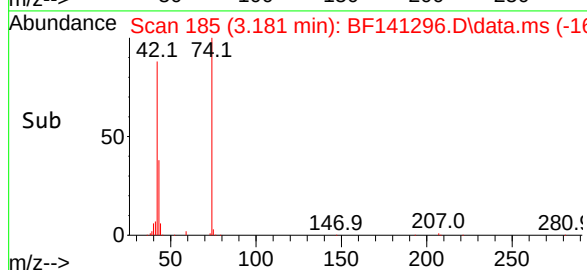
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

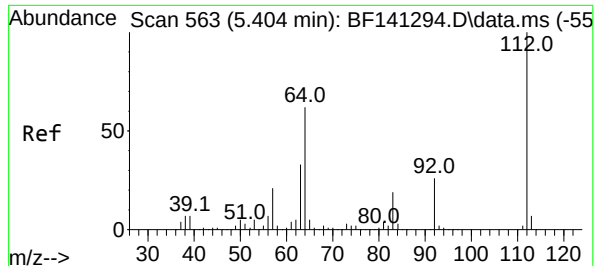


#4
n-Nitrosodimethylamine
Concen: 61.956 ng
RT: 3.181 min Scan# 185
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38



Tgt Ion: 42 Resp: 305314
Ion Ratio Lower Upper
42 100
74 114.1 90.3 135.5
44 7.2 5.7 8.5





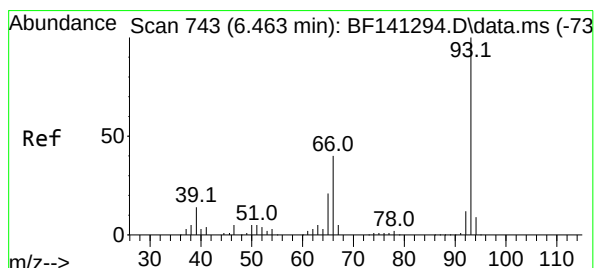
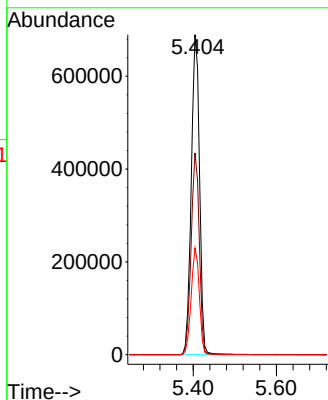
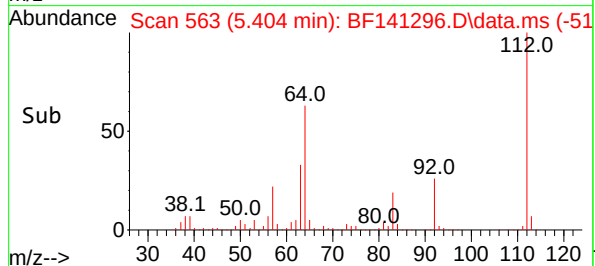
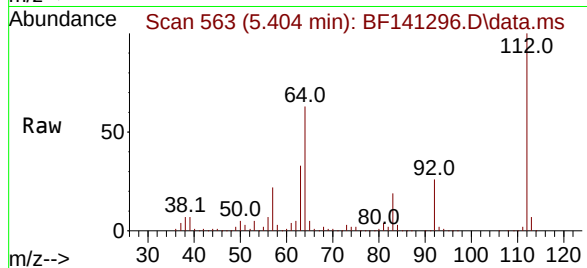
#5
2-Fluorophenol
Concen: 113.729 ng
RT: 5.404 min Scan# 50
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Instrument :
BNA_F
Client SampleId :
SSTDICC060

Tgt Ion: 112 Resp: 95239
Ion Ratio Lower Upper
112 100
64 63.0 49.8 74.8
63 33.3 26.1 39.1

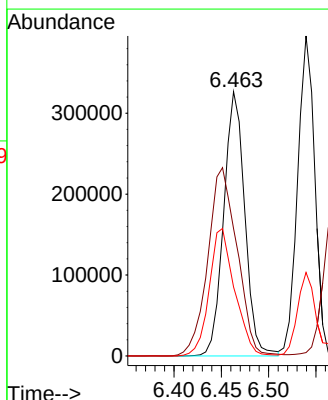
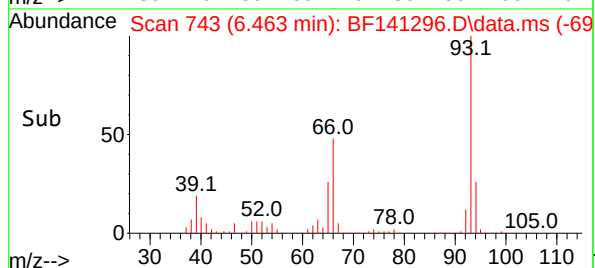
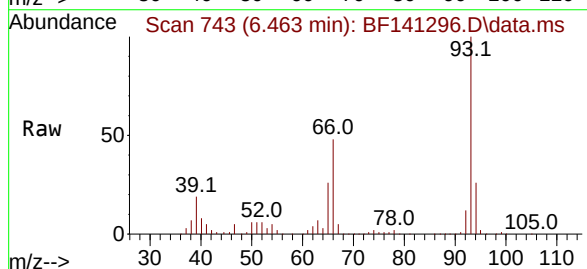
Manual Integrations
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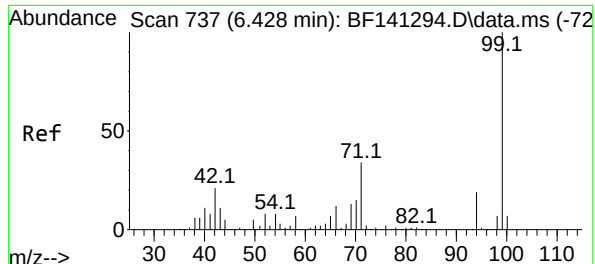
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#6
Aniline
Concen: 55.493 ng
RT: 6.463 min Scan# 743
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion: 93 Resp: 506937
Ion Ratio Lower Upper
93 100
66 48.2 32.5 48.7
65 26.1 17.0 25.6





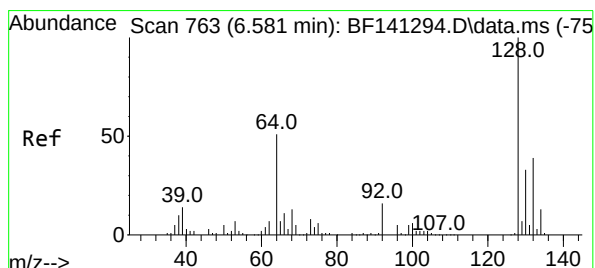
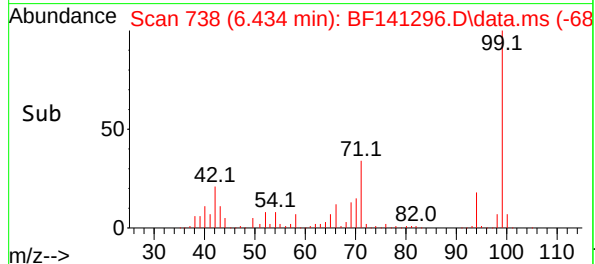
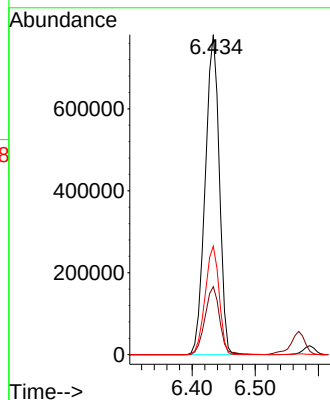
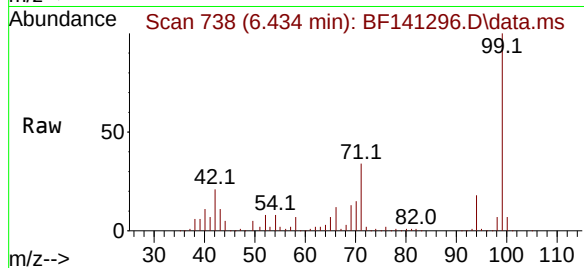
#7
Phenol-d6
Concen: 113.542 ng
RT: 6.434 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 99 Resp: 121047
Ion Ratio Lower Upper
99 100
42 21.2 17.1 25.7
71 33.9 26.9 40.3

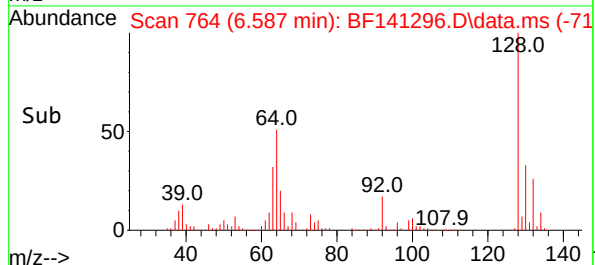
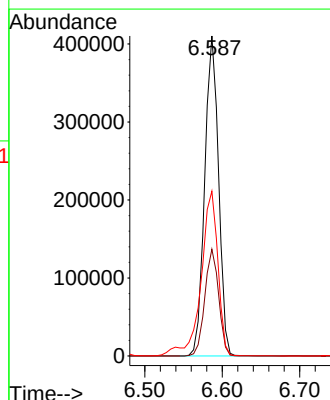
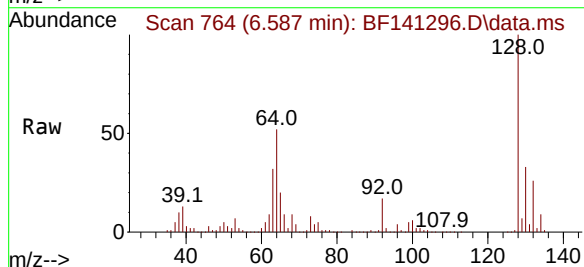
Manual Integrations
APPROVED

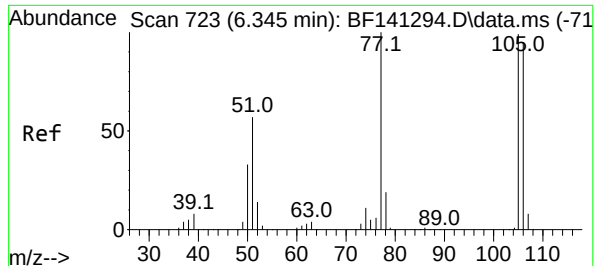
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#8
2-Chlorophenol
Concen: 56.606 ng
RT: 6.587 min Scan# 764
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:128 Resp: 509043
Ion Ratio Lower Upper
128 100
130 33.4 12.5 52.5
64 51.5 32.9 72.9





#9

Benzaldehyde

Concen: 48.677 ng

RT: 6.351 min Scan# 71

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion: 77 Resp: 314238

Ion Ratio Lower Upper

77 100

105 101.2 79.4 119.4

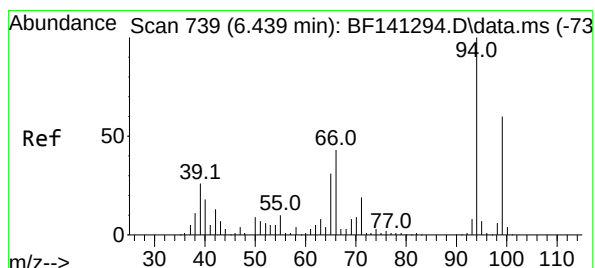
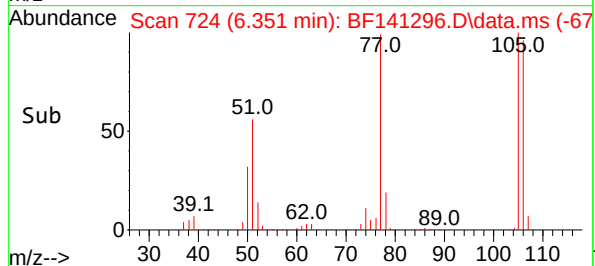
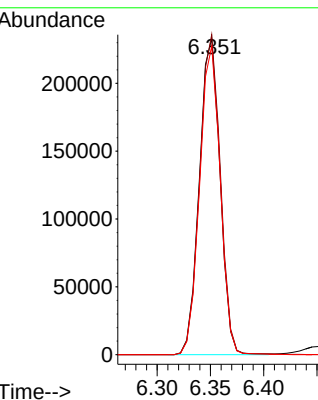
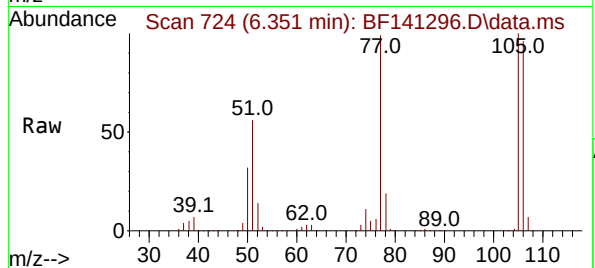
106 97.6 74.6 114.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#10

Phenol

Concen: 56.549 ng

RT: 6.445 min Scan# 740

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

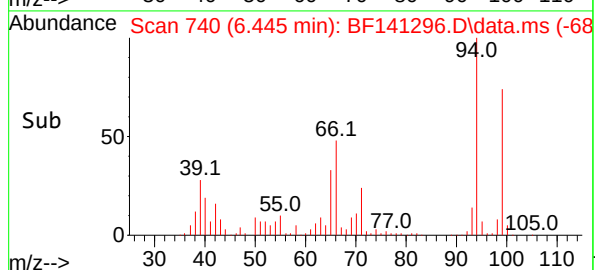
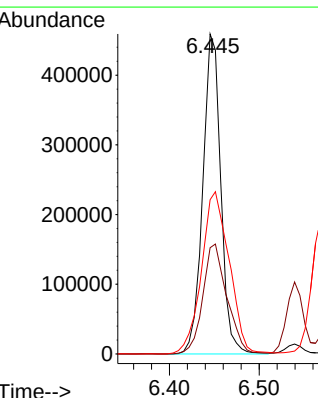
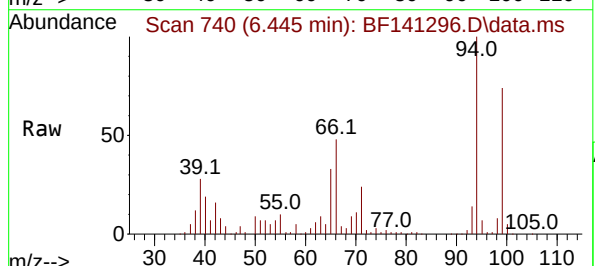
Tgt Ion: 94 Resp: 640034

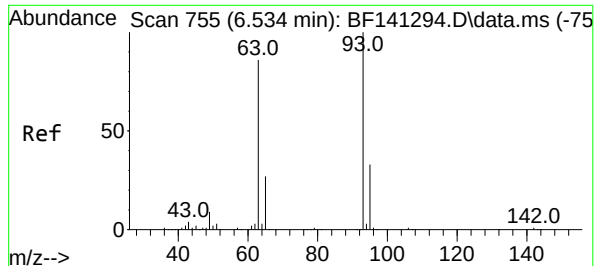
Ion Ratio Lower Upper

94 100

65 33.2 10.8 50.8

66 48.2 23.3 63.3





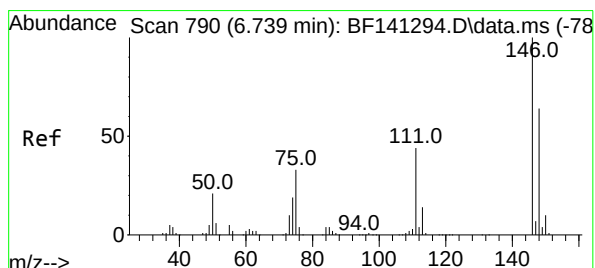
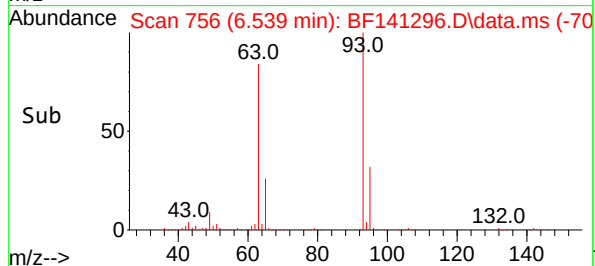
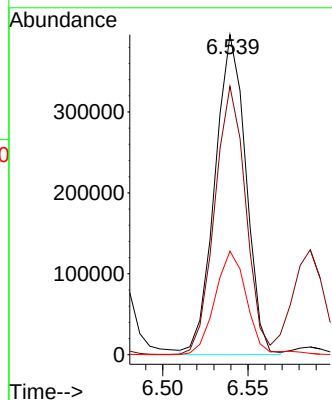
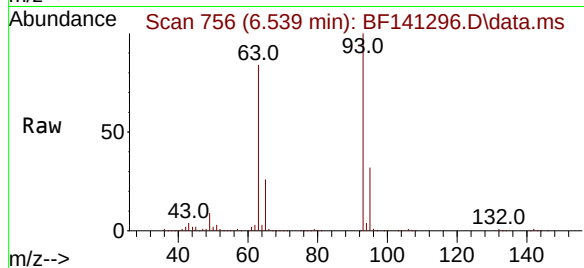
#11
bis(2-Chloroethyl)ether
Concen: 58.245 ng
RT: 6.539 min Scan# 755
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion: 93 Resp: 49932
Ion Ratio Lower Upper
93 100
63 83.9 65.0 105.0
95 32.3 12.4 52.4

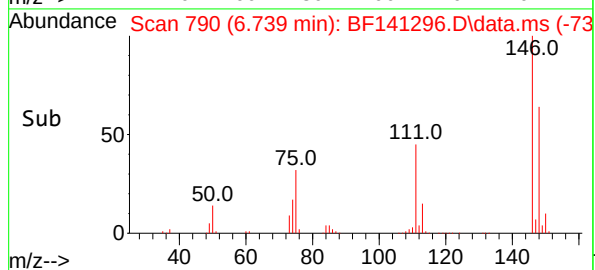
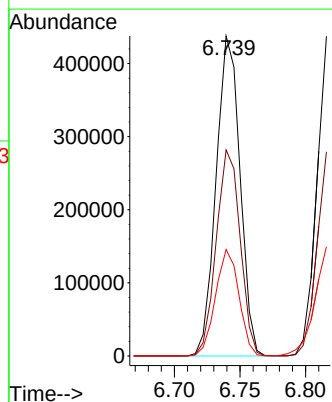
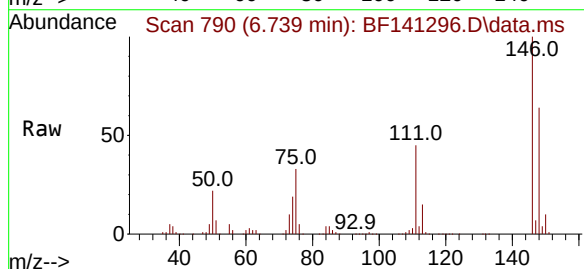
Manual Integrations
APPROVED

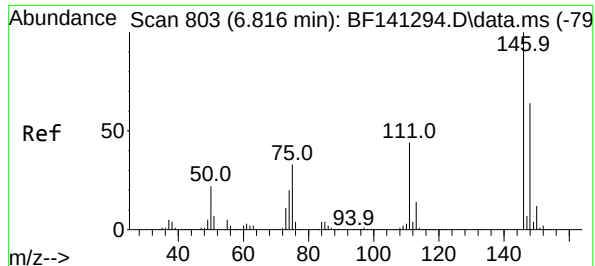
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#12
1,3-Dichlorobenzene
Concen: 55.698 ng
RT: 6.739 min Scan# 790
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:146 Resp: 553756
Ion Ratio Lower Upper
146 100
148 64.4 51.2 76.8
75 33.2 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 55.945 ng

RT: 6.816 min Scan# 803

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDIC060

Tgt Ion:146 Resp: 558572

Ion Ratio Lower Upper

146 100

148 63.8 51.2 76.8

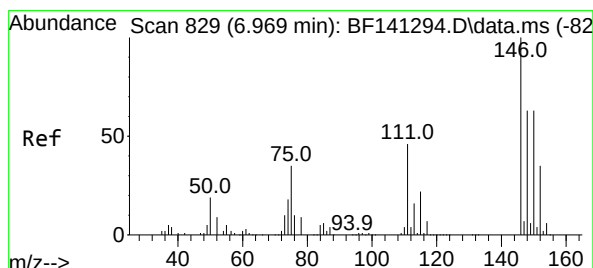
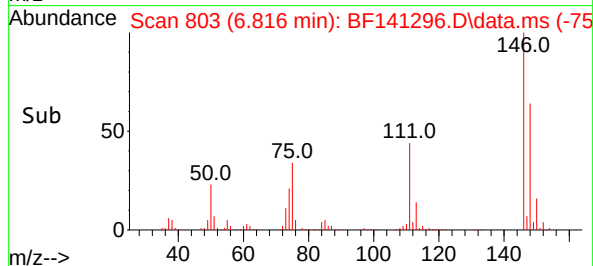
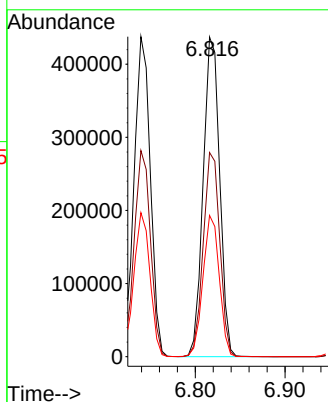
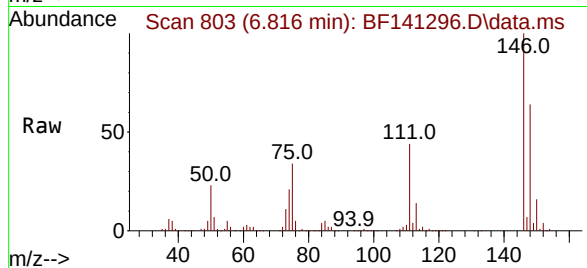
111 44.2 35.0 52.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#14

1,2-Dichlorobenzene

Concen: 54.417 ng

RT: 6.975 min Scan# 830

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

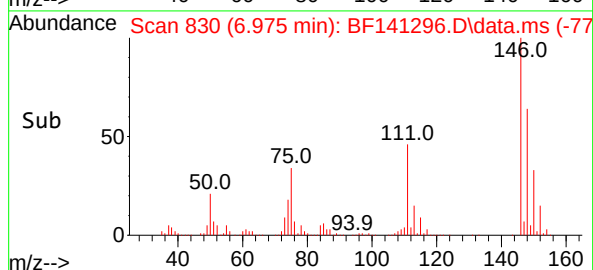
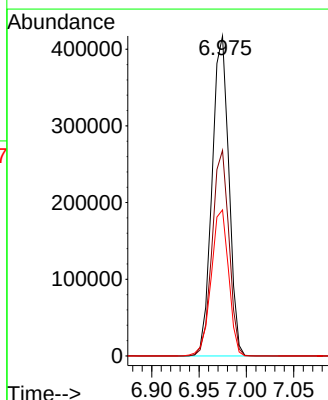
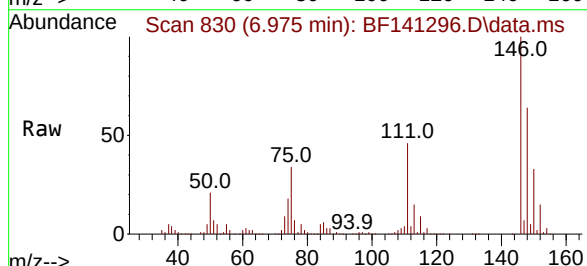
Tgt Ion:146 Resp: 513179

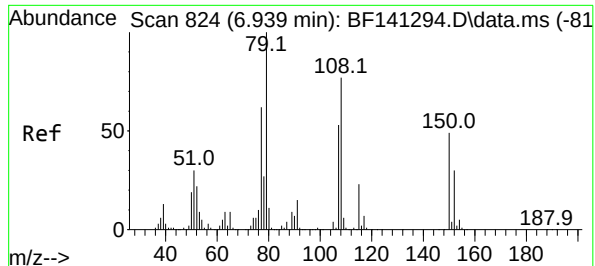
Ion Ratio Lower Upper

146 100

148 64.3 50.5 75.7

111 45.7 36.6 55.0





#15

Benzyl Alcohol

Concen: 58.473 ng

RT: 6.945 min Scan# 801

Delta R.T. 0.006 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion: 79 Resp: 42272

Ion Ratio Lower Upper

79 100

108 76.4 61.4 92.0

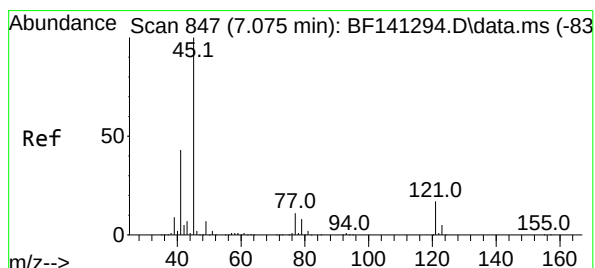
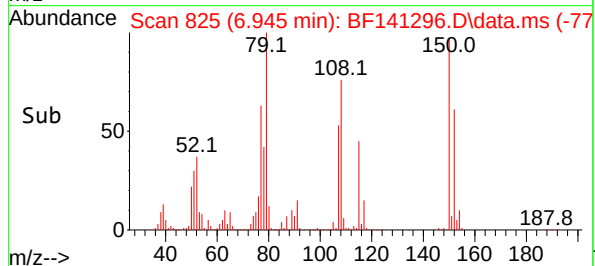
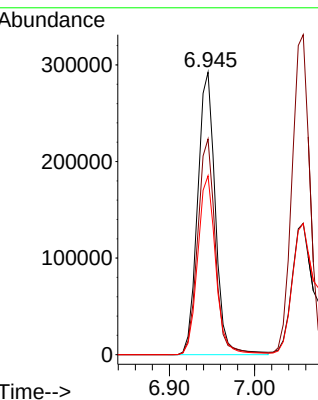
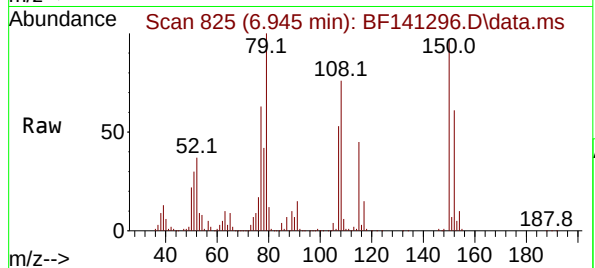
77 63.3 49.9 74.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 57.194 ng

RT: 7.081 min Scan# 848

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

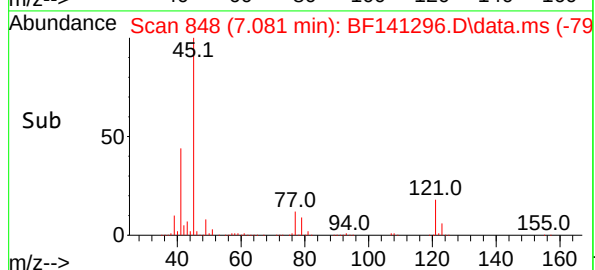
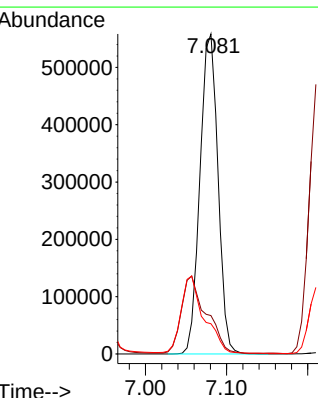
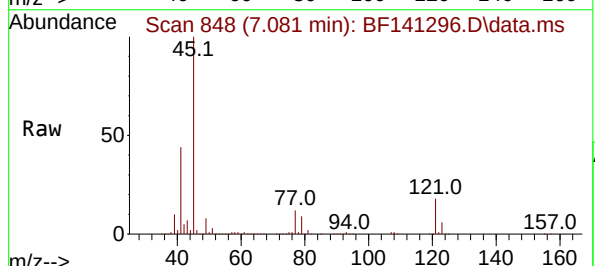
Tgt Ion: 45 Resp: 859130

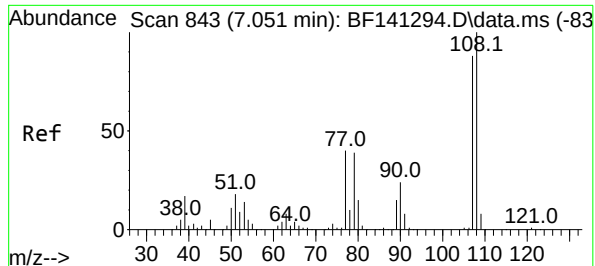
Ion Ratio Lower Upper

45 100

77 12.0 0.0 31.8

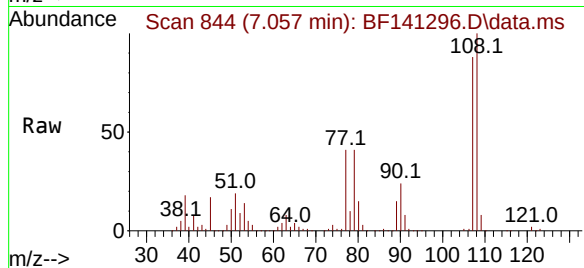
79 9.4 0.0 29.1





#17
2-Methylphenol
Concen: 58.211 ng
RT: 7.057 min Scan# 843
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

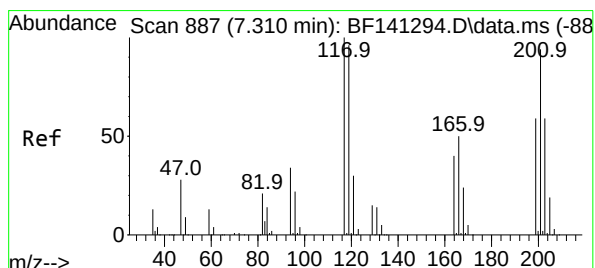
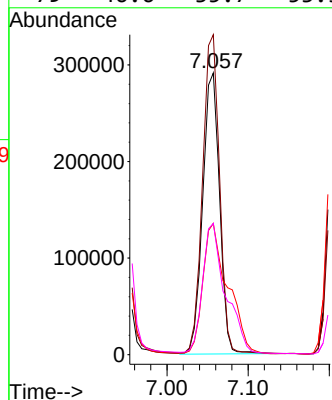
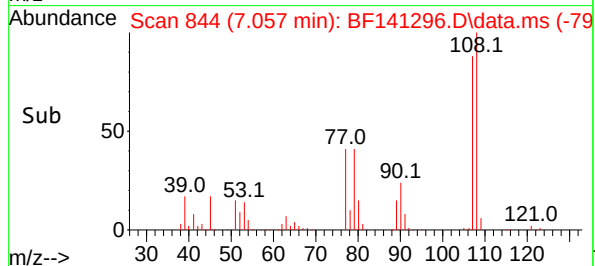
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



Tgt Ion:107 Resp: 42059
Ion Ratio Lower Upper
107 100
108 113.6 90.8 136.2
77 46.6 36.2 54.4
79 46.6 35.7 53.5

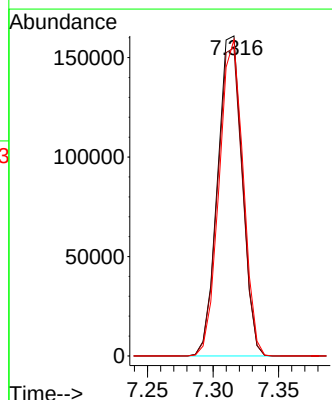
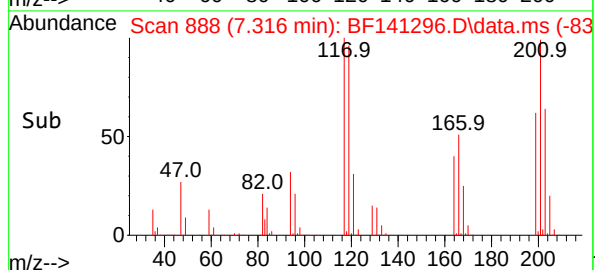
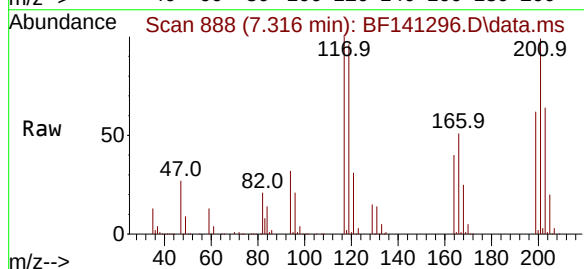
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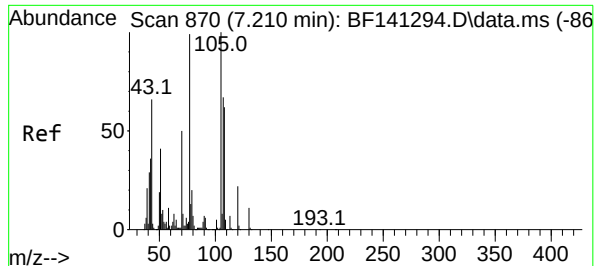
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#18
Hexachloroethane
Concen: 57.649 ng
RT: 7.316 min Scan# 888
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:117 Resp: 210746
Ion Ratio Lower Upper
117 100
119 96.3 76.6 114.8
201 98.8 74.8 112.2





#19

n-Nitroso-di-n-propylamine

Concen: 56.162 ng

RT: 7.222 min Scan# 81

Delta R.T. 0.006 min

Lab File: BF141296.D

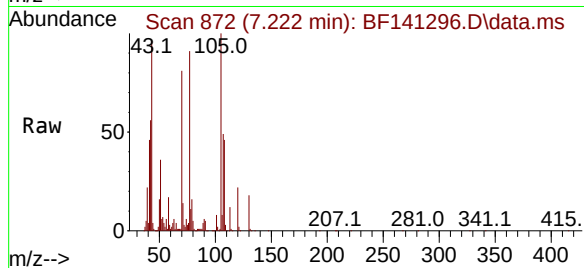
Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060



Tgt Ion: 70 Resp: 355030

Ion Ratio Lower Upper

70 100

42 68.3 56.8 85.2

101 10.0 7.7 11.5

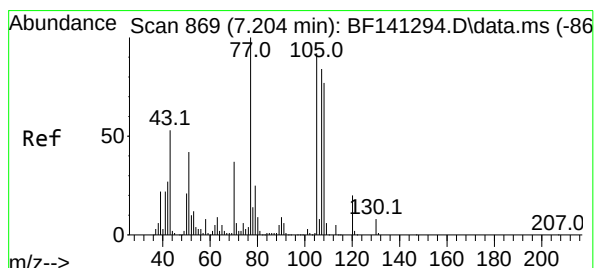
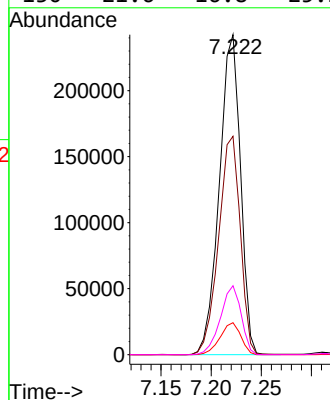
130 21.6 16.8 25.2

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#20

3+4-Methylphenols

Concen: 54.781 ng

RT: 7.210 min Scan# 870

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Tgt Ion:107 Resp: 496888

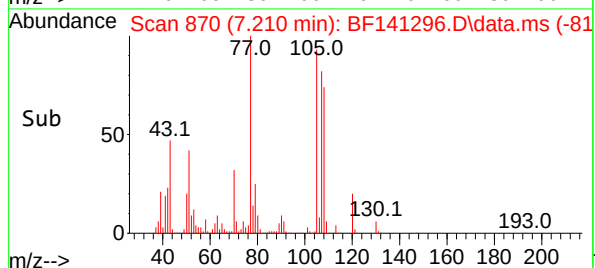
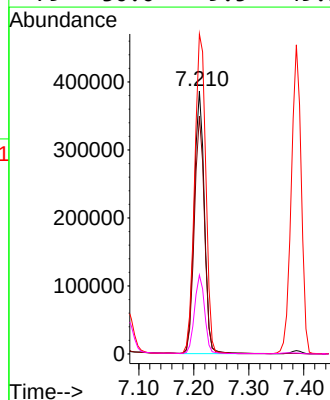
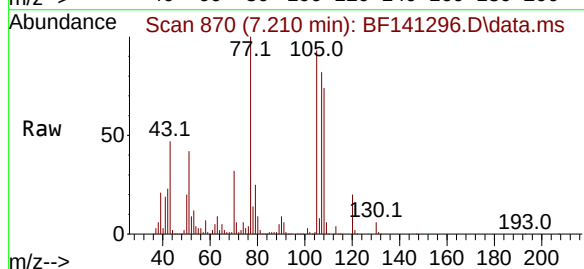
Ion Ratio Lower Upper

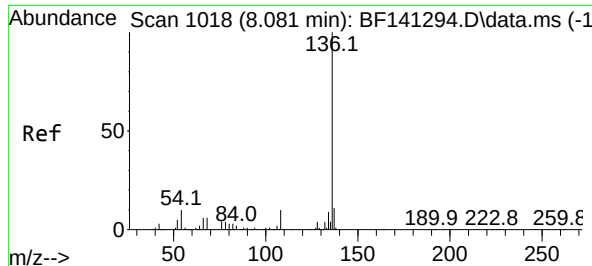
107 100

108 90.4 70.9 110.9

77 121.7 98.5 138.5

79 30.0 9.5 49.5





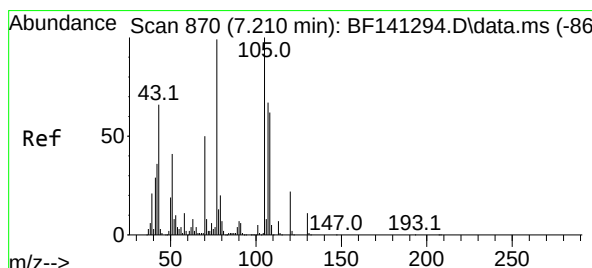
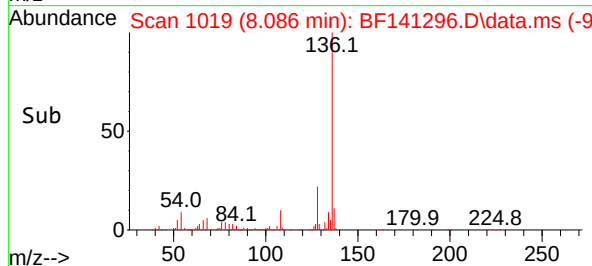
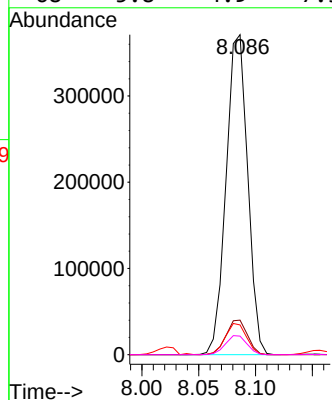
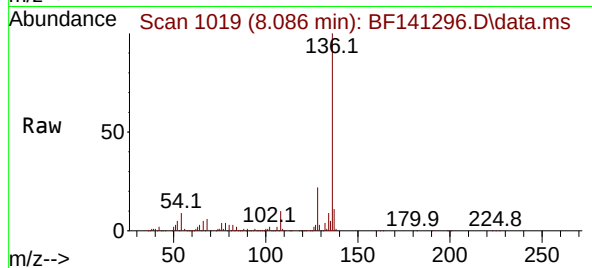
#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.086 min Scan# 1018
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:136 Resp: 490777
Ion Ratio Lower Upper
136 100
137 10.8 8.6 13.0
54 9.3 7.8 11.8
68 5.8 4.9 7.3

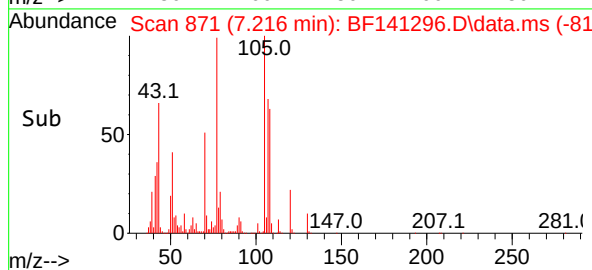
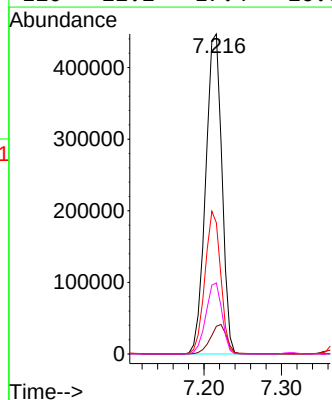
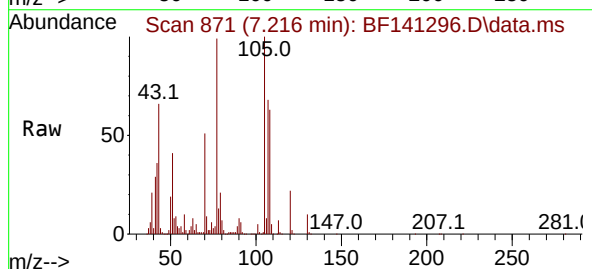
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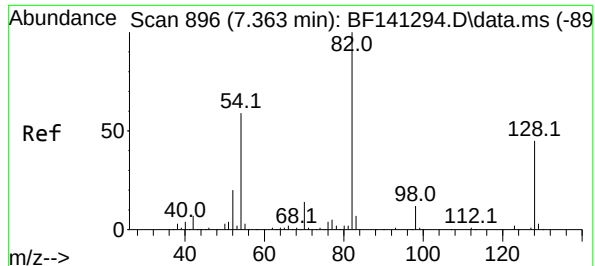
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#22
Acetophenone
Concen: 53.679 ng
RT: 7.216 min Scan# 871
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:105 Resp: 651575
Ion Ratio Lower Upper
105 100
71 8.6 6.8 10.2
51 41.0 32.6 49.0
120 22.2 17.4 26.0





#23

Nitrobenzene-d5

Concen: 115.711 ng

RT: 7.369 min Scan# 89

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion: 82 Resp: 109819

Ion Ratio Lower Upper

82 100

128 44.6 35.7 53.5

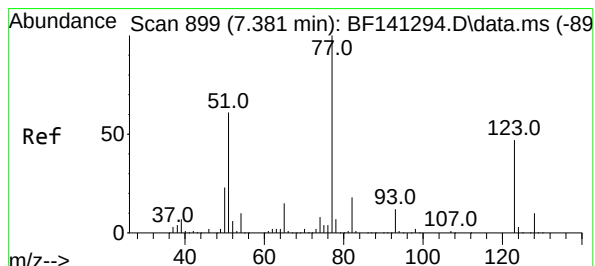
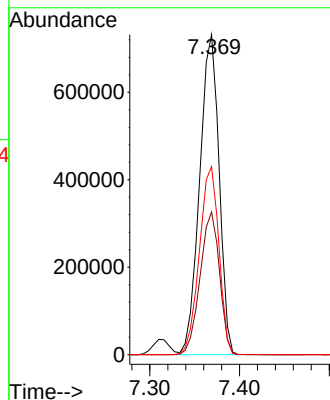
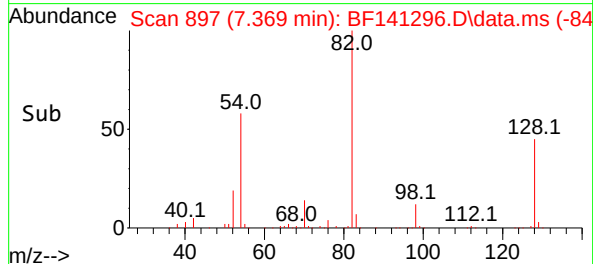
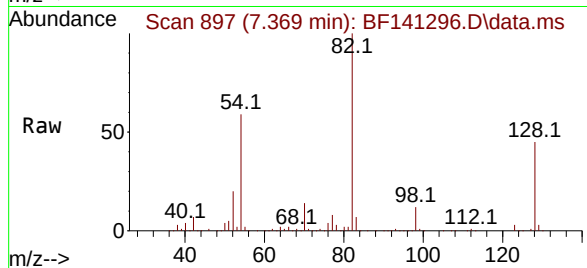
54 58.7 47.1 70.7

Manual Integrations

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#24

Nitrobenzene

Concen: 58.138 ng

RT: 7.386 min Scan# 900

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

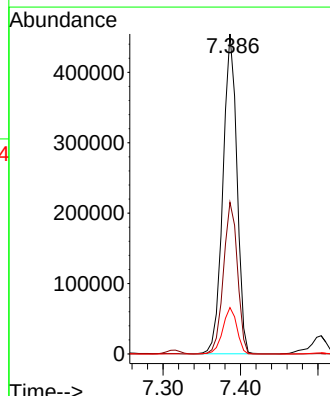
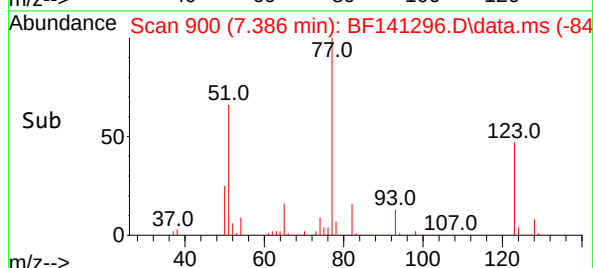
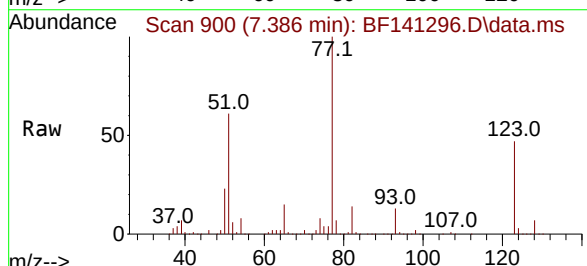
Tgt Ion: 77 Resp: 572234

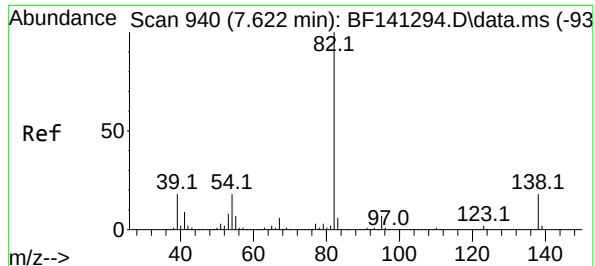
Ion Ratio Lower Upper

77 100

123 47.4 37.3 55.9

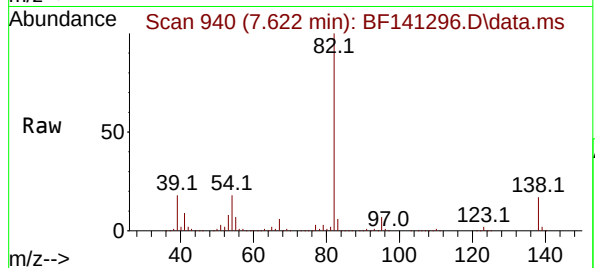
65 14.5 11.8 17.6





#25
Isophorone
Concen: 58.383 ng
RT: 7.622 min Scan# 940
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

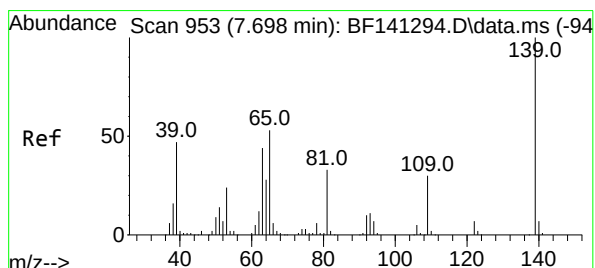
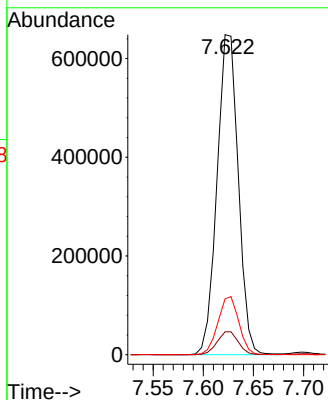
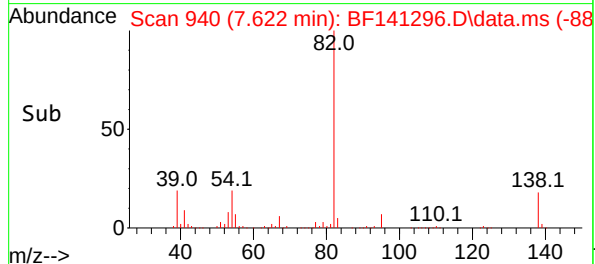
Instrument :
BNA_F
Client Sample Id :
SSTDICC060



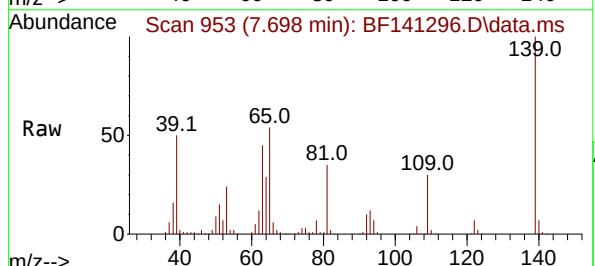
Tgt Ion: 82 Resp: 95367
Ion Ratio Lower Upper
82 100
95 7.2 5.8 8.6
138 17.5 14.7 22.1

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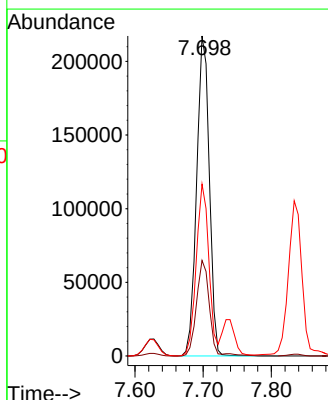
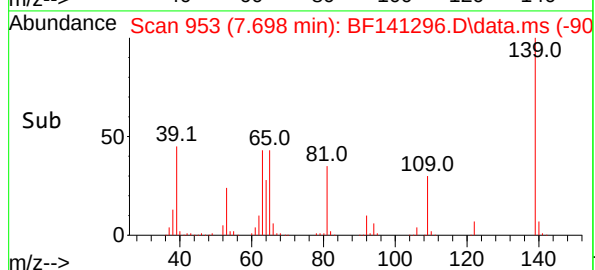
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

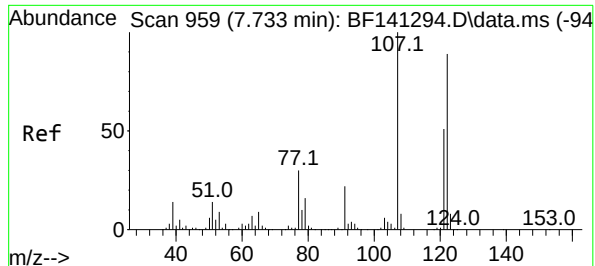


#26
2-Nitrophenol
Concen: 61.652 ng
RT: 7.698 min Scan# 953
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38



Tgt Ion:139 Resp: 280785
Ion Ratio Lower Upper
139 100
109 29.9 23.8 35.6
65 53.7 42.2 63.4





#27

2,4-Dimethylphenol

Concen: 60.006 ng m

RT: 7.739 min Scan# 9

Delta R.T. 0.006 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

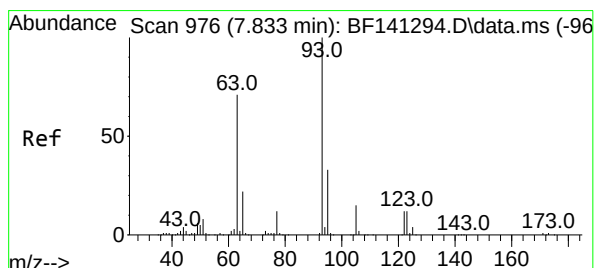
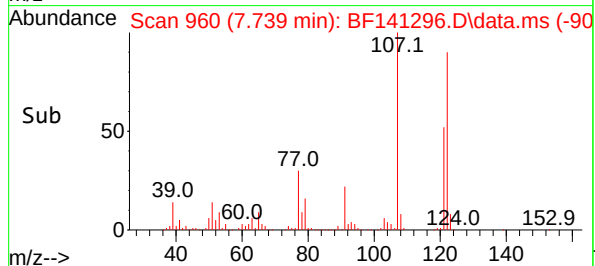
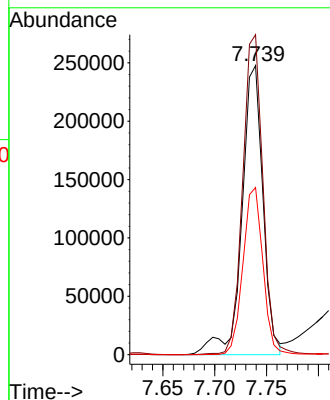
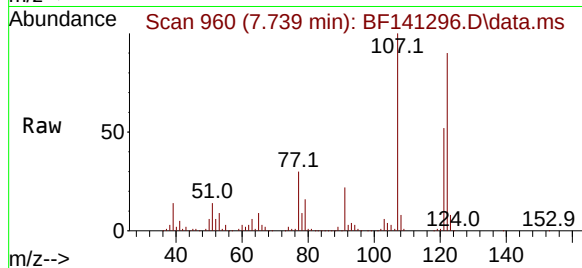
ClientSampleId :

SSTDICC060

Tgt Ion:122 Resp: 350784
Ion Ratio Lower Upper
122 100
107 110.7 89.9 134.9
121 57.8 46.1 69.1

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Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#28

bis(2-Chloroethoxy)methane

Concen: 57.853 ng

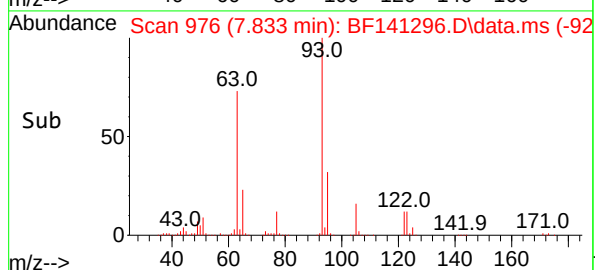
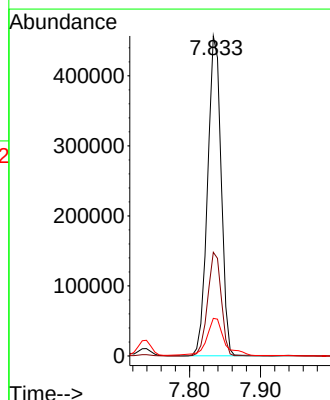
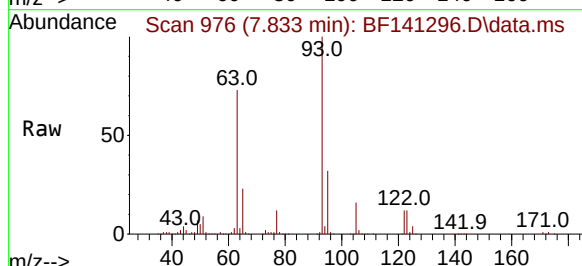
RT: 7.833 min Scan# 976

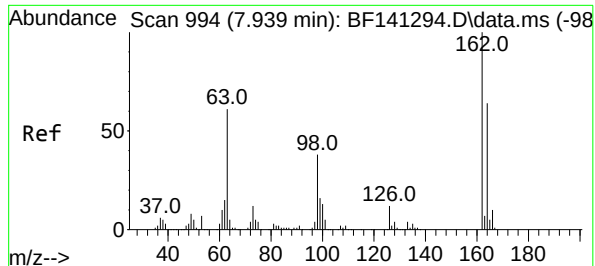
Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Tgt Ion: 93 Resp: 605644
Ion Ratio Lower Upper
93 100
95 32.4 26.2 39.2
123 11.8 10.2 15.4





#29

2,4-Dichlorophenol

Concen: 58.315 ng

RT: 7.939 min Scan# 994

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion:162 Resp: 421744

Ion Ratio Lower Upper

162 100

164 63.0 44.2 84.2

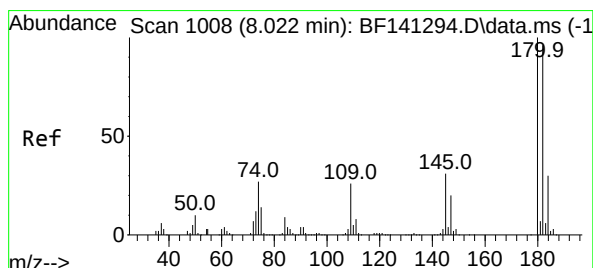
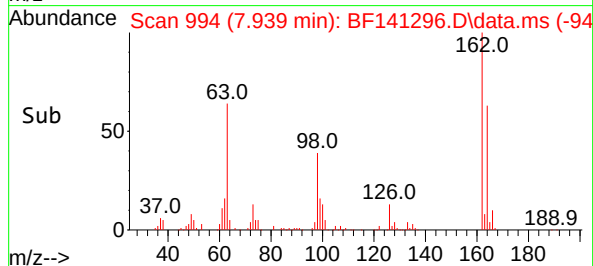
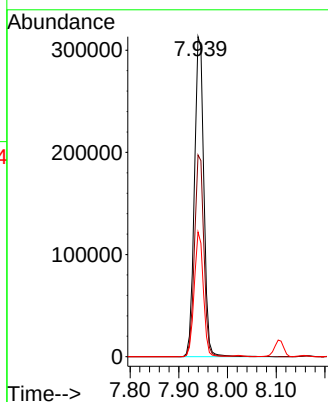
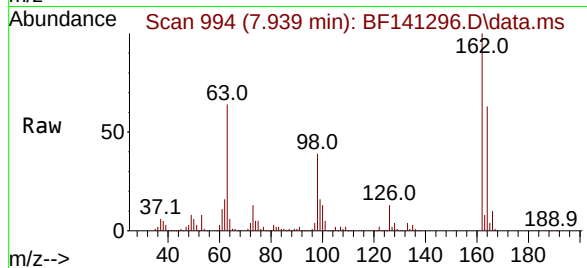
98 38.9 18.2 58.2

Manual Integrations

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#30

1,2,4-Trichlorobenzene

Concen: 55.787 ng

RT: 8.022 min Scan# 1008

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

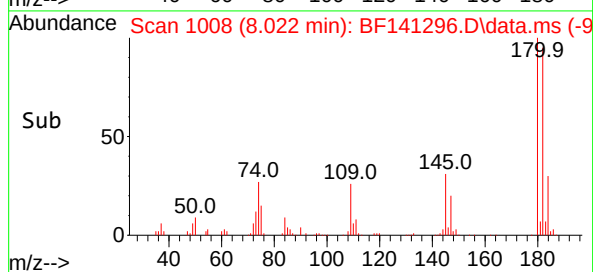
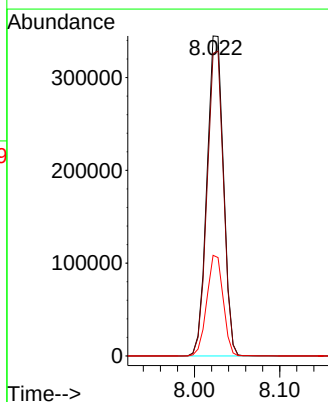
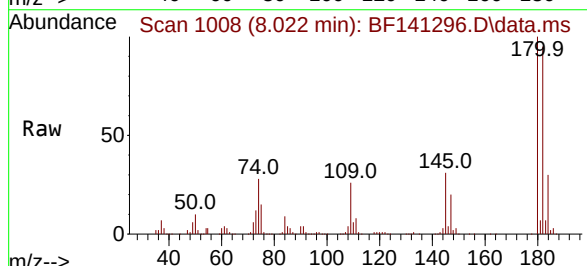
Tgt Ion:180 Resp: 465841

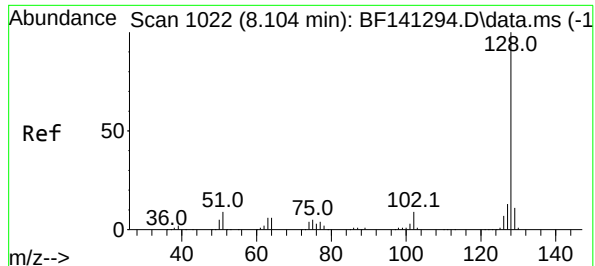
Ion Ratio Lower Upper

180 100

182 94.5 76.4 114.6

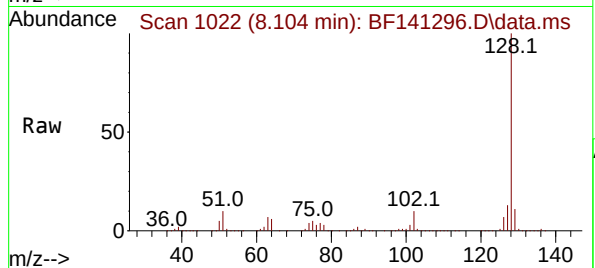
145 31.4 24.9 37.3





#31
Naphthalene
Concen: 54.933 ng
RT: 8.104 min Scan# 1022
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

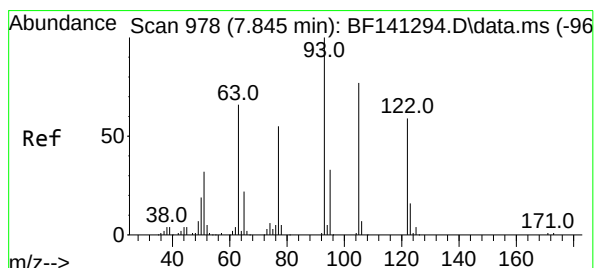
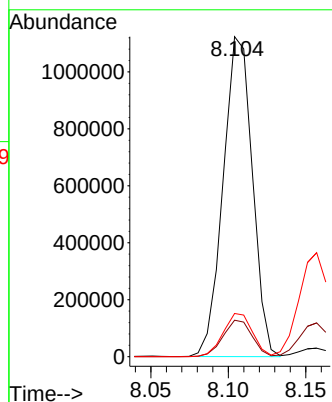
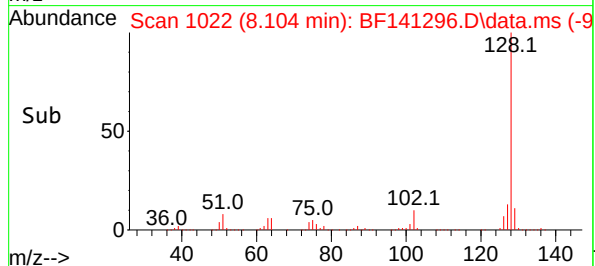
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



Tgt Ion:128 Resp: 1475900
Ion Ratio Lower Upper
128 100
129 11.4 8.9 13.3
127 13.5 10.6 15.8

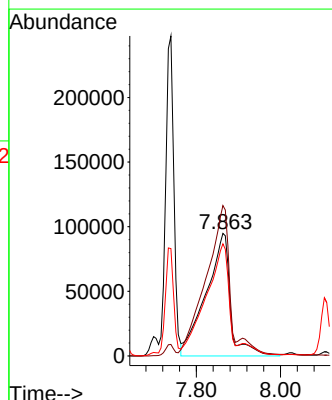
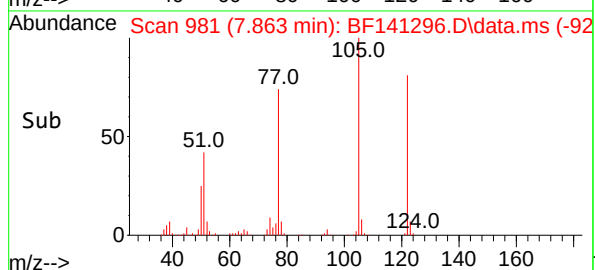
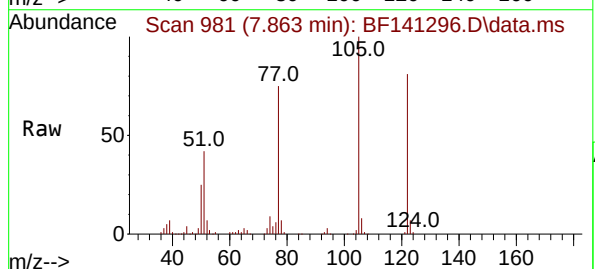
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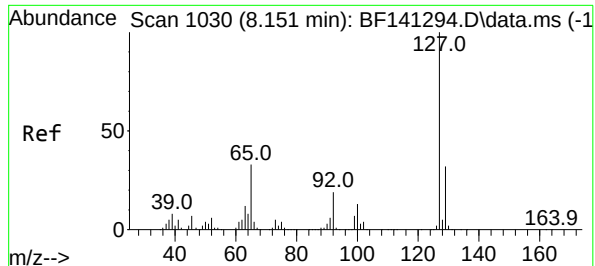
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#32
Benzoic acid
Concen: 76.193 ng m
RT: 7.863 min Scan# 981
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:122 Resp: 380664
Ion Ratio Lower Upper
122 100
105 122.7 103.4 143.4
77 91.6 70.9 110.9





#33

4-Chloroaniline

Concen: 56.786 ng

RT: 8.157 min Scan# 1030

Delta R.T. 0.006 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion:127 Resp: 513149

Ion Ratio Lower Upper

127 100

129 32.4 25.7 38.5

65 31.7 26.4 39.6

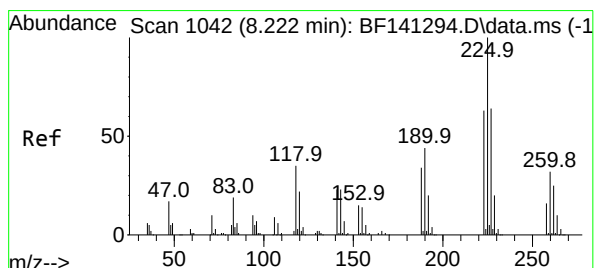
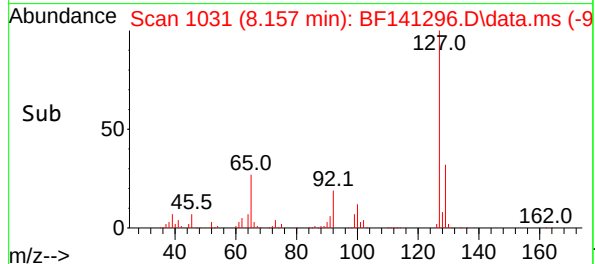
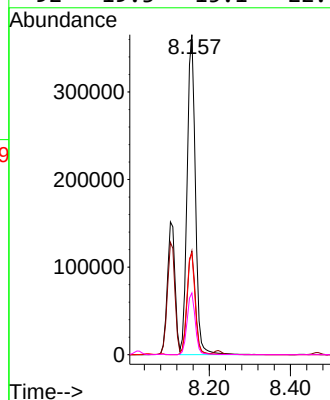
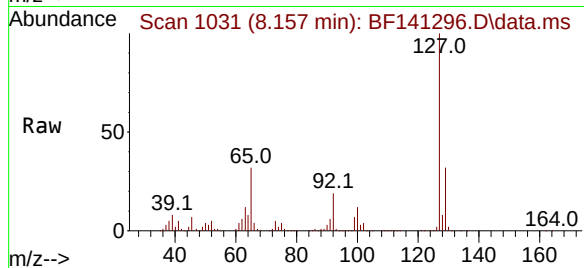
92 19.3 15.1 22.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#34

Hexachlorobutadiene

Concen: 56.533 ng

RT: 8.222 min Scan# 1042

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

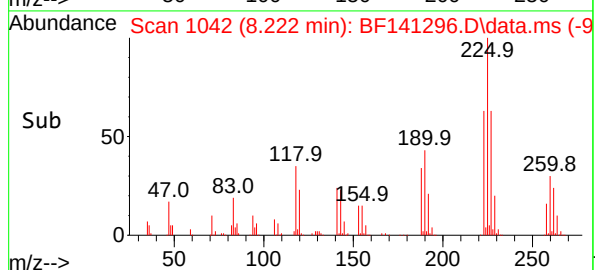
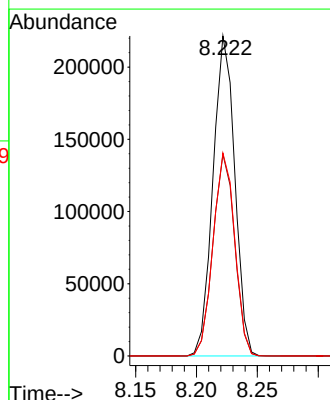
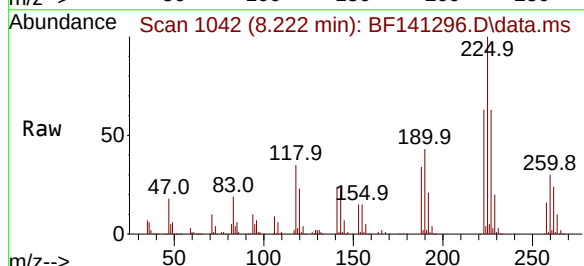
Tgt Ion:225 Resp: 275524

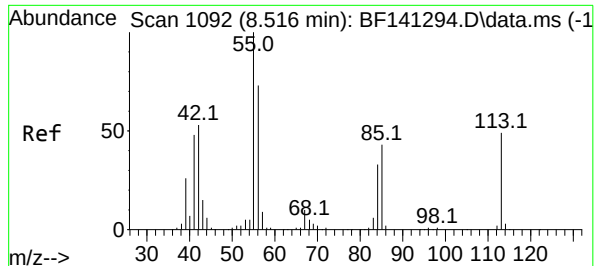
Ion Ratio Lower Upper

225 100

223 63.0 50.4 75.6

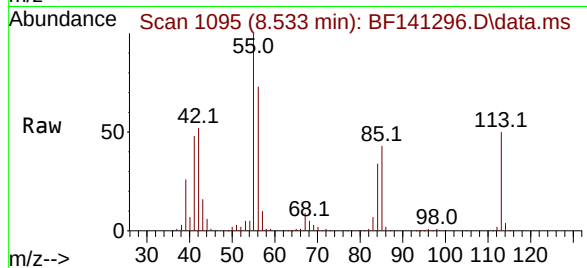
227 63.4 51.3 76.9





#35
Caprolactam
Concen: 60.337 ng
RT: 8.533 min Scan# 1095
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

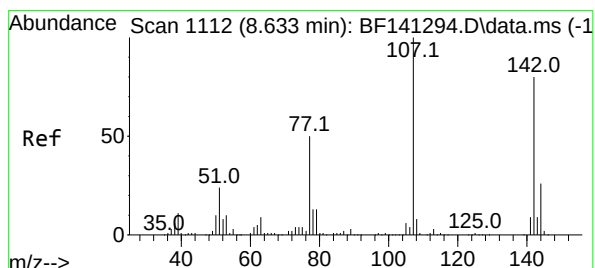
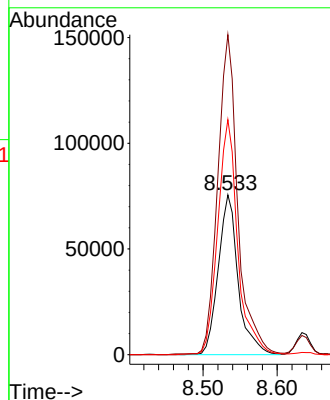
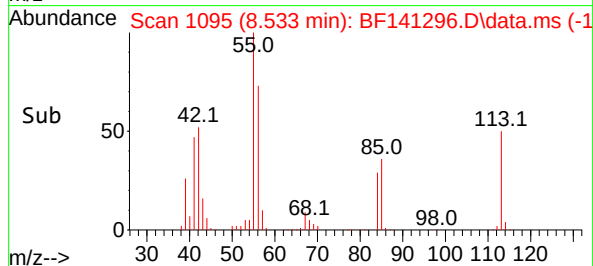
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



Tgt Ion:113 Resp: 14102
Ion Ratio Lower Upper
113 100
55 200.2 182.9 222.9
56 147.0 127.9 167.9

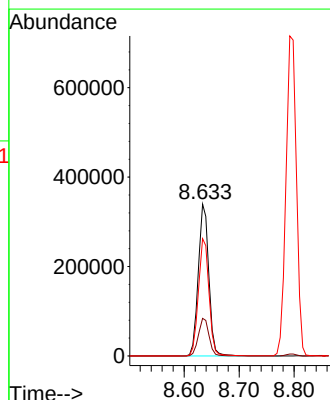
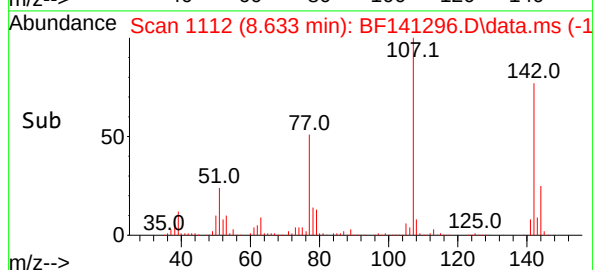
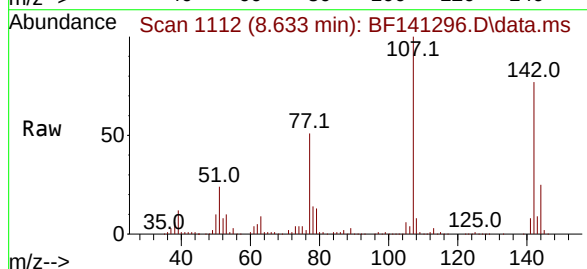
Manual Integrations
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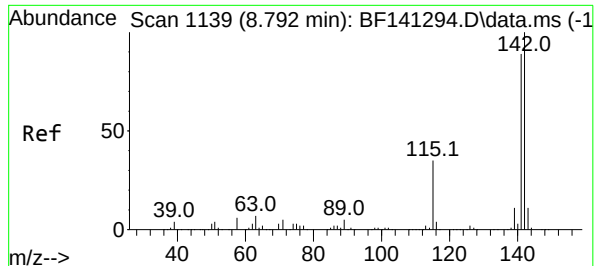
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#36
4-Chloro-3-methylphenol
Concen: 58.389 ng
RT: 8.633 min Scan# 1112
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:107 Resp: 452438
Ion Ratio Lower Upper
107 100
144 24.8 20.7 31.1
142 77.2 63.8 95.8





#37

2-Methylnaphthalene

Concen: 55.126 ng

RT: 8.792 min Scan# 1139

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion:142 Resp: 94115

Ion Ratio Lower Upper

142 100

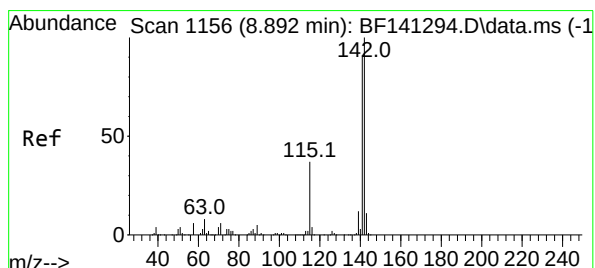
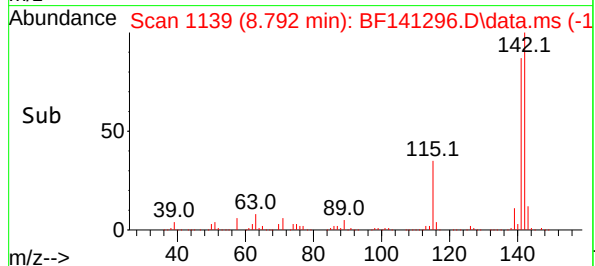
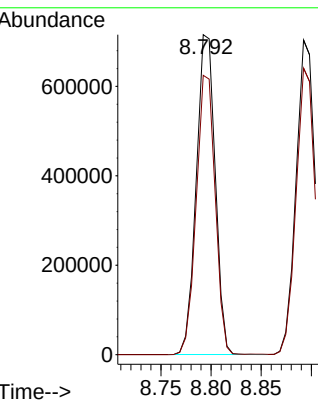
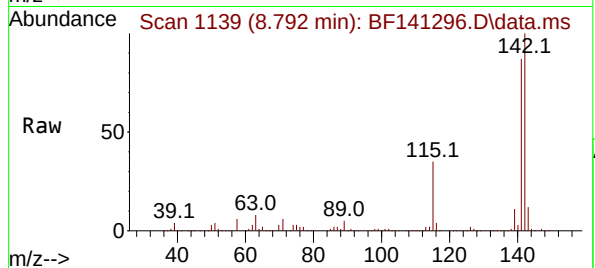
141 87.3 71.3 106.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#38

1-Methylnaphthalene

Concen: 54.632 ng

RT: 8.892 min Scan# 1156

Delta R.T. -0.000 min

Lab File: BF141296.D

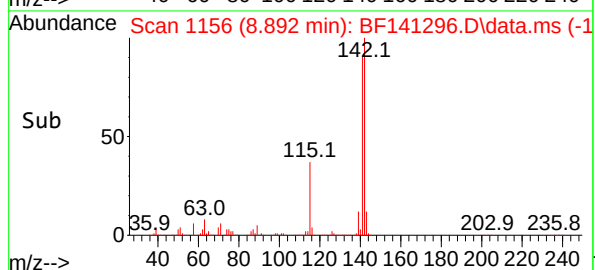
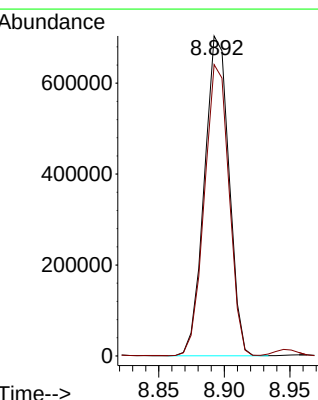
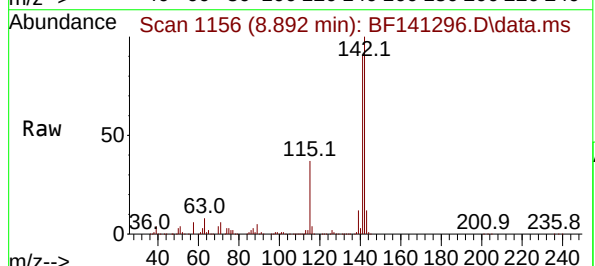
Acq: 29 Jan 2025 16:38

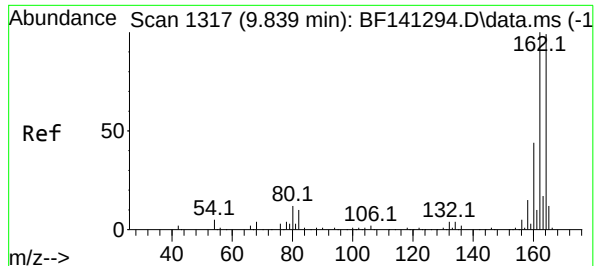
Tgt Ion:142 Resp: 917389

Ion Ratio Lower Upper

142 100

141 91.1 73.2 109.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.839 min Scan# 1167

Delta R.T. -0.000 min

Lab File: BF141296.D

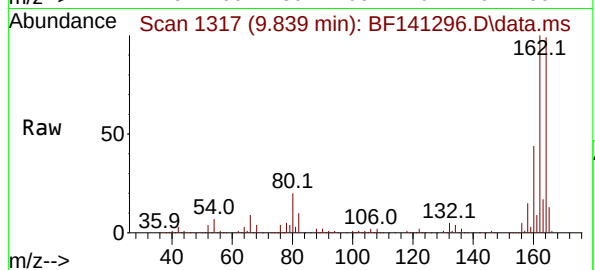
Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060



Tgt Ion:164 Resp: 260269

Ion Ratio Lower Upper

164 100

162 101.4 80.6 121.0

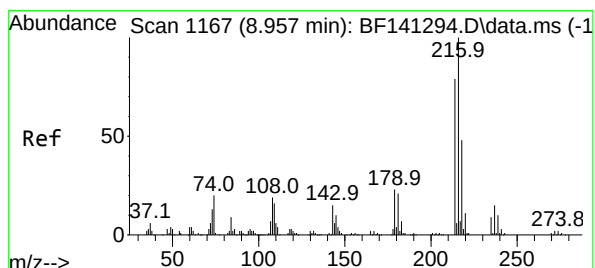
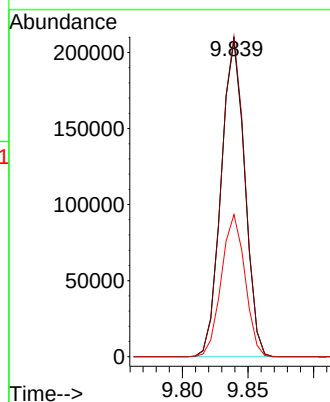
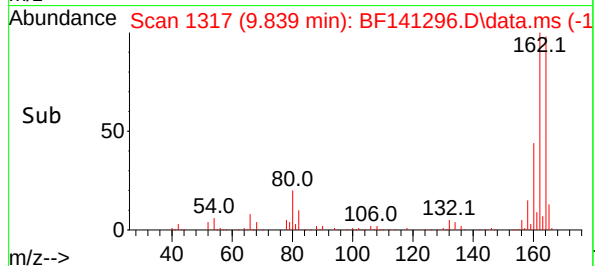
160 45.0 35.8 53.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#40

1,2,4,5-Tetrachlorobenzene

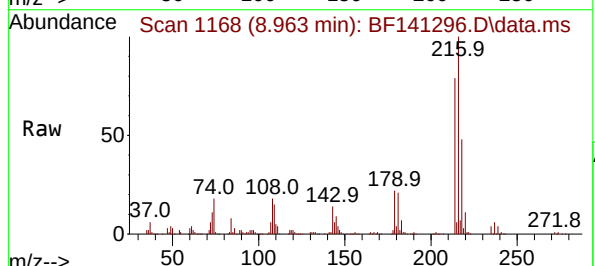
Concen: 56.609 ng

RT: 8.963 min Scan# 1168

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38



Tgt Ion:216 Resp: 430239

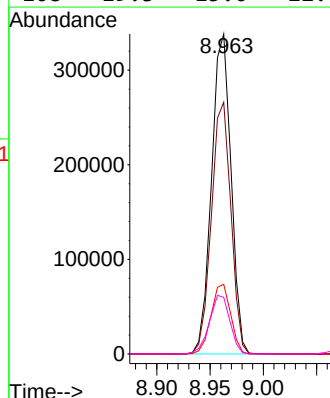
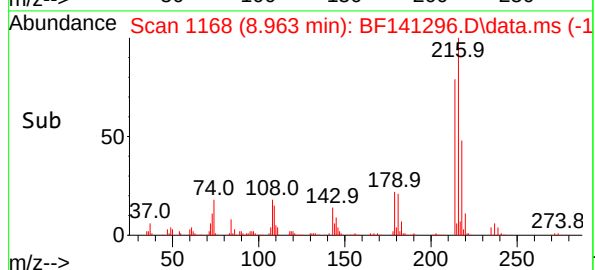
Ion Ratio Lower Upper

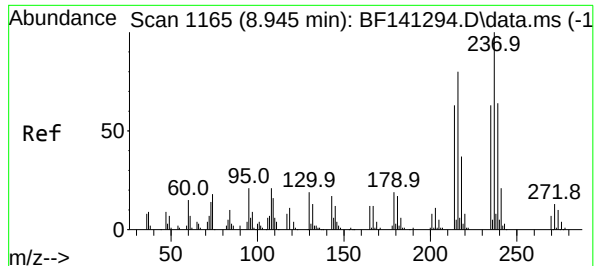
216 100

214 78.9 63.2 94.8

179 22.0 17.8 26.8

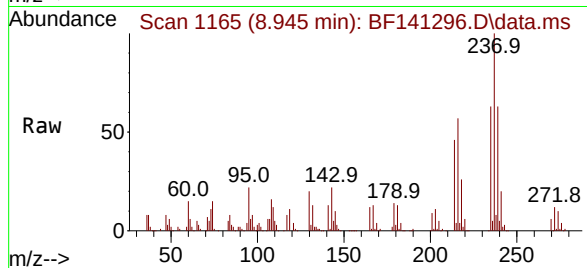
108 19.3 15.0 22.6





#41
Hexachlorocyclopentadiene
Concen: 66.154 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

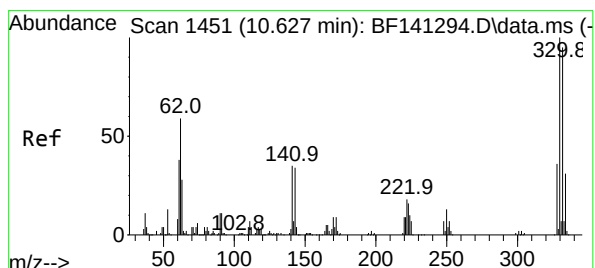
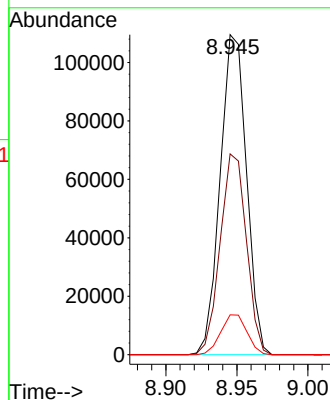
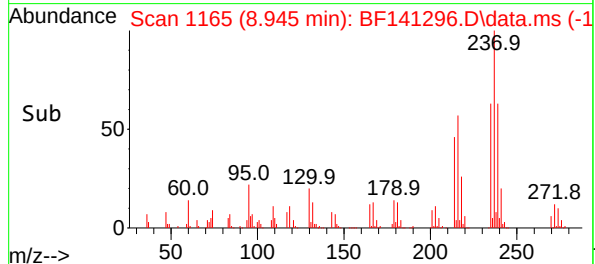
Instrument :
BNA_F
Client Sample Id :
SSTDICC060



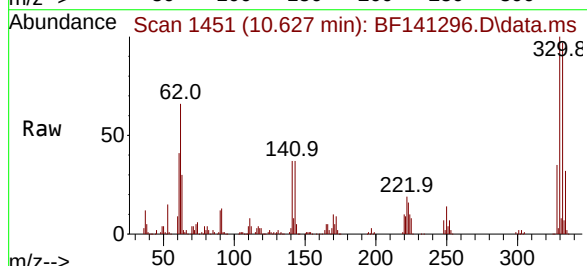
Tgt Ion: 237 Resp: 14138
Ion Ratio Lower Upper
237 100
235 62.8 42.9 82.9
272 12.5 0.0 32.8

Manual Integrations
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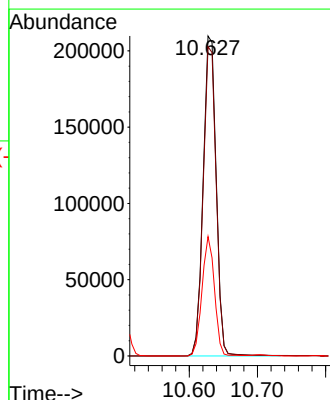
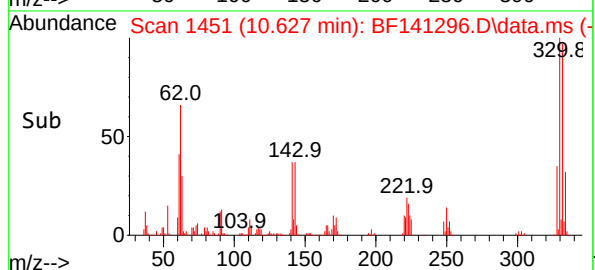
Reviewed By : Yogesh Patel 01/30/2025
Supervised By : mohammad ahmed 02/04/2025

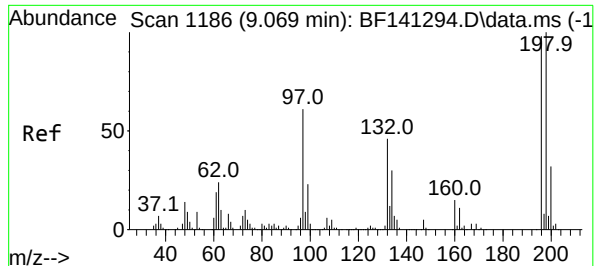


#42
2,4,6-Tribromophenol
Concen: 113.824 ng
RT: 10.627 min Scan# 1451
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38



Tgt Ion: 330 Resp: 279105
Ion Ratio Lower Upper
330 100
332 96.7 76.1 114.1
141 35.8 28.8 43.2





#43

2,4,6-Trichlorophenol

Concen: 58.588 ng

RT: 9.075 min Scan# 1186

Delta R.T. 0.006 min

Lab File: BF141296.D

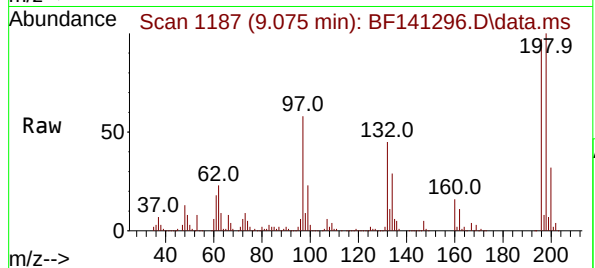
Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060



Tgt Ion:196 Resp: 288290

Ion Ratio Lower Upper

196 100

198 102.9 81.8 122.6

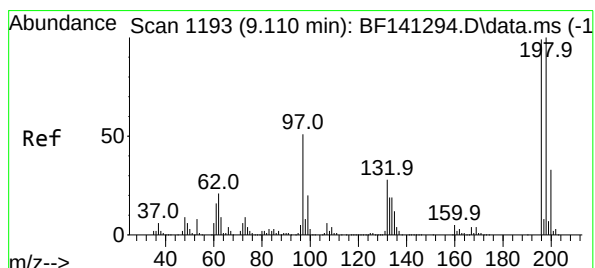
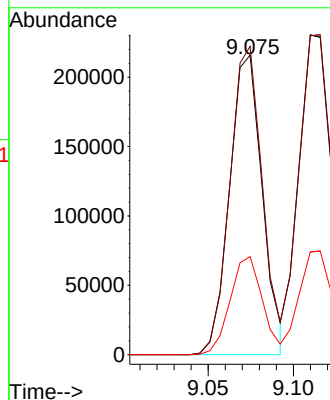
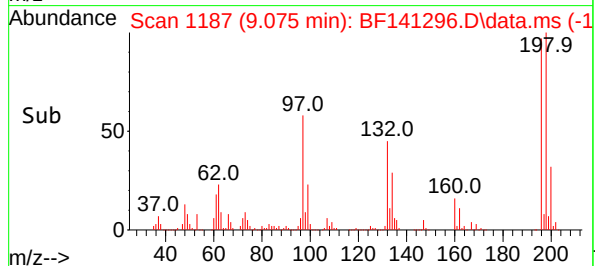
200 32.7 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#44

2,4,5-Trichlorophenol

Concen: 59.000 ng

RT: 9.110 min Scan# 1193

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Tgt Ion:196 Resp: 314912

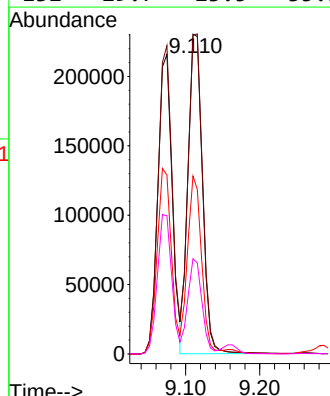
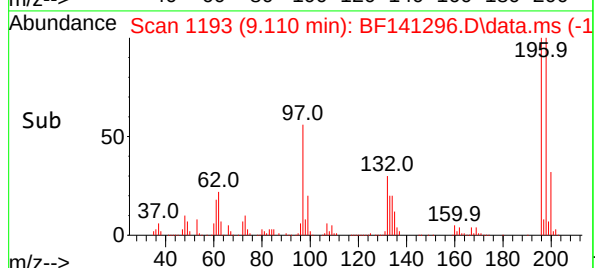
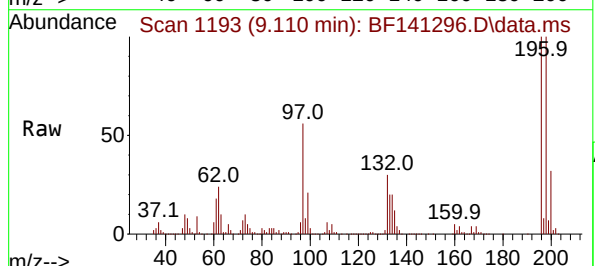
Ion Ratio Lower Upper

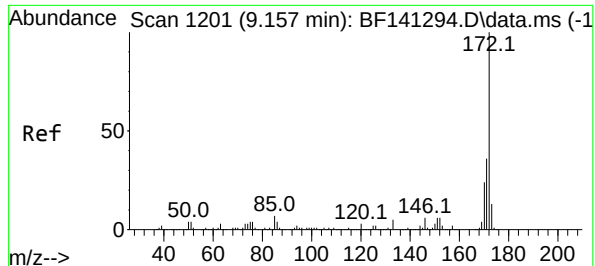
196 100

198 99.7 80.5 120.7

97 55.7 42.8 64.2

132 29.7 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 102.411 ng

RT: 9.163 min Scan# 1202

Delta R.T. 0.006 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion:172 Resp: 182437

Ion Ratio Lower Upper

172 100

171 36.0 28.8 43.2

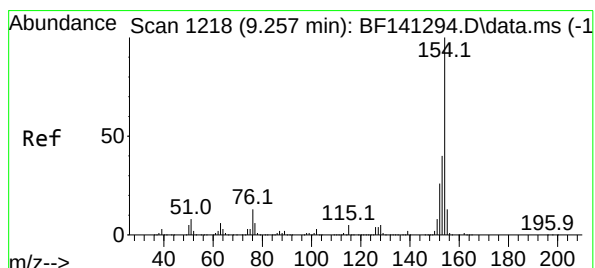
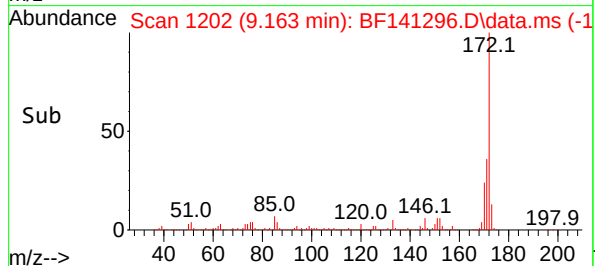
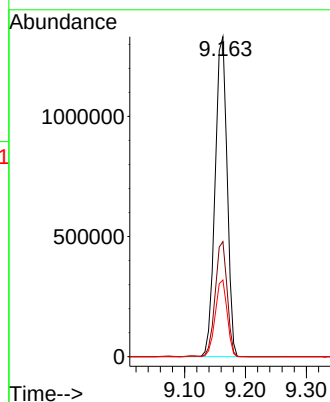
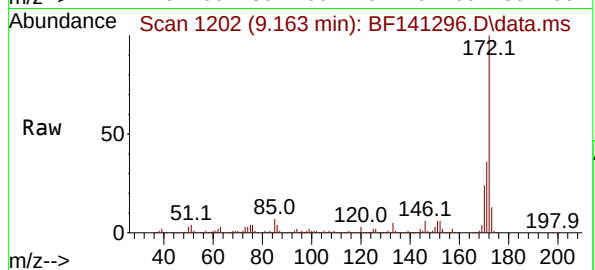
170 24.0 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#46

1,1'-Biphenyl

Concen: 54.084 ng

RT: 9.263 min Scan# 1219

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

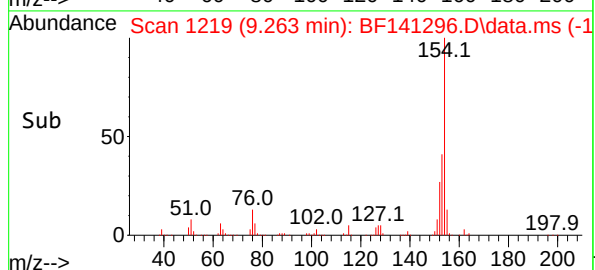
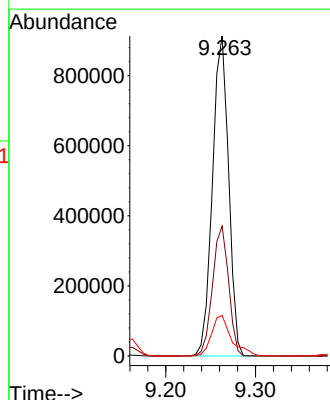
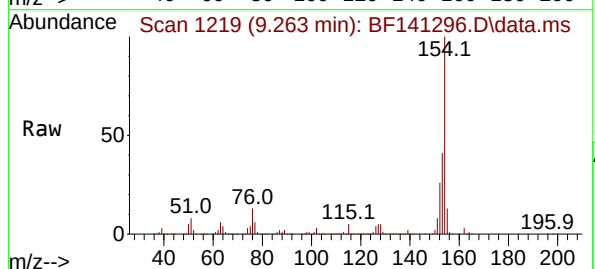
Tgt Ion:154 Resp: 1139946

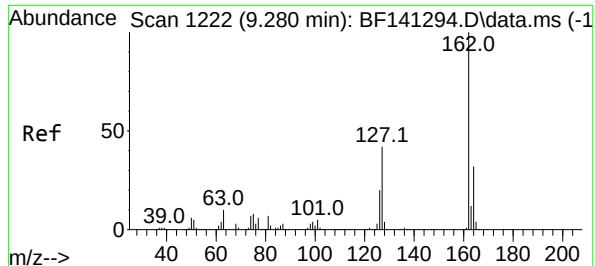
Ion Ratio Lower Upper

154 100

153 40.6 20.0 60.0

76 12.7 0.0 32.8





#47

2-Chloronaphthalene

Concen: 55.247 ng

RT: 9.286 min Scan# 1222

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion:162 Resp: 90256

Ion Ratio Lower Upper

162 100

127 41.8 33.7 50.5

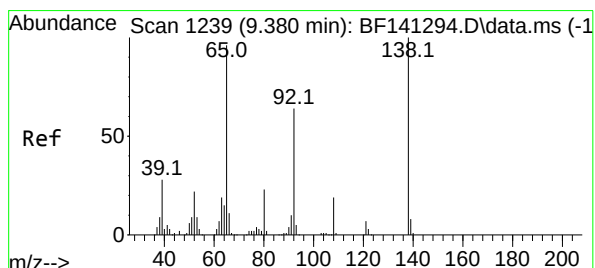
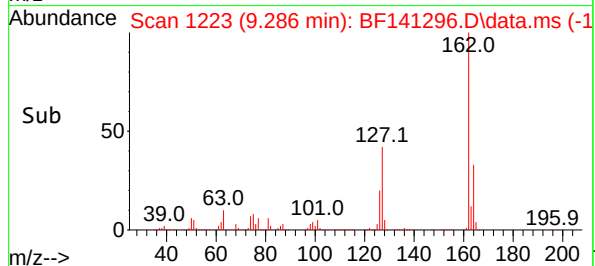
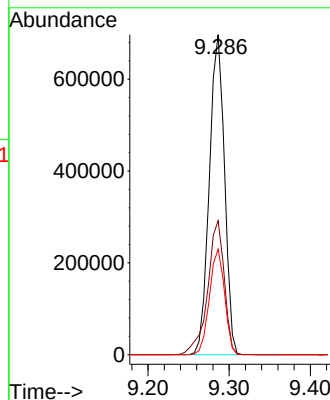
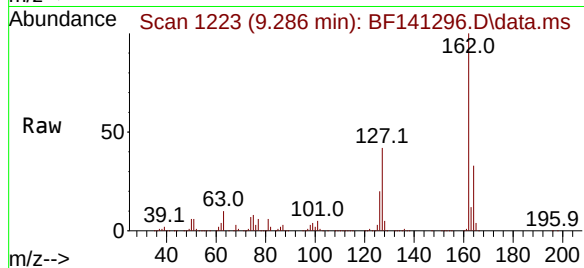
164 33.0 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#48

2-Nitroaniline

Concen: 59.861 ng

RT: 9.380 min Scan# 1239

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

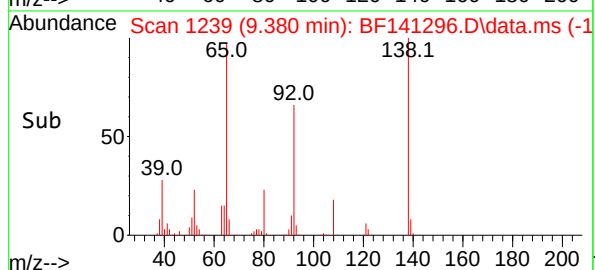
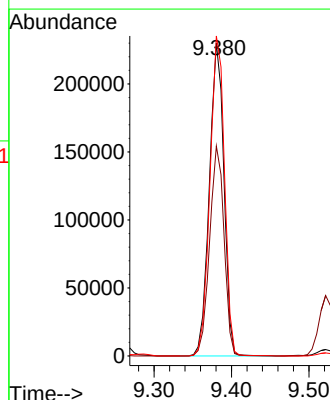
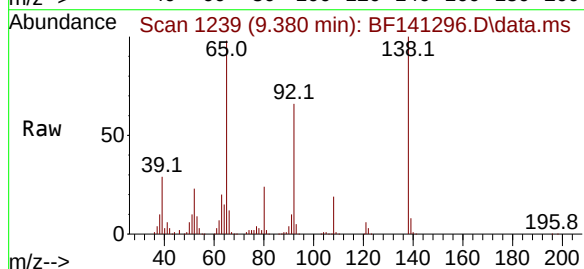
Tgt Ion: 65 Resp: 300339

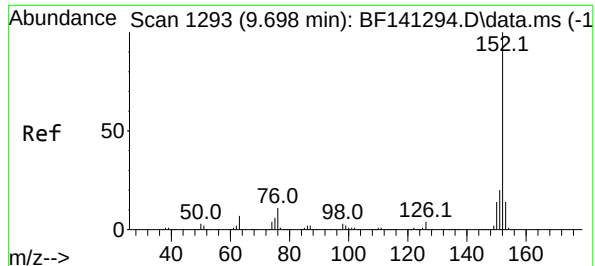
Ion Ratio Lower Upper

65 100

92 67.1 53.3 79.9

138 102.3 83.6 125.4





#49

Acenaphthylene

Concen: 54.924 ng

RT: 9.698 min Scan# 1293

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion:152 Resp: 125873

Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.2

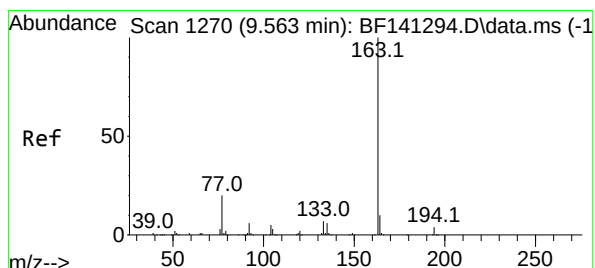
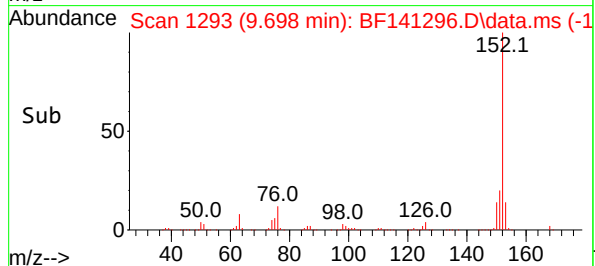
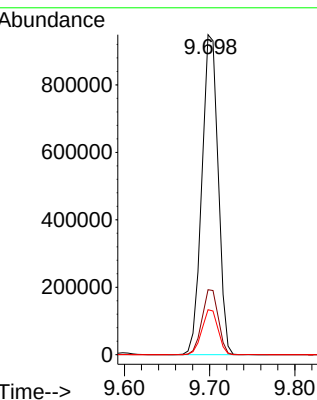
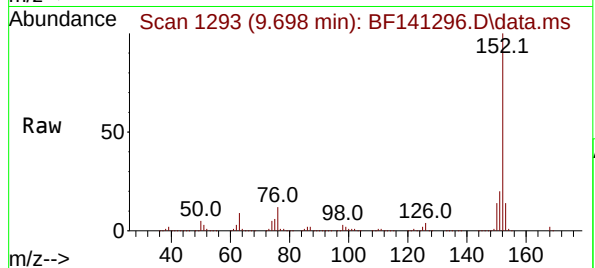
153 14.1 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#50

Dimethylphthalate

Concen: 56.075 ng

RT: 9.569 min Scan# 1271

Delta R.T. 0.006 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

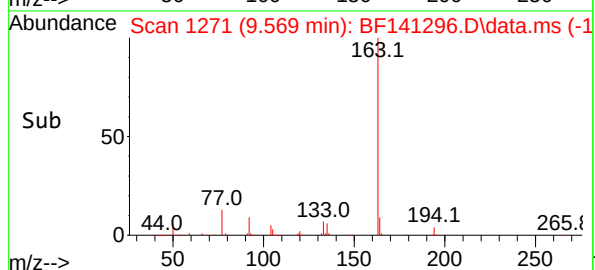
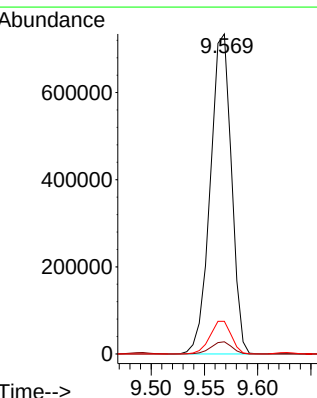
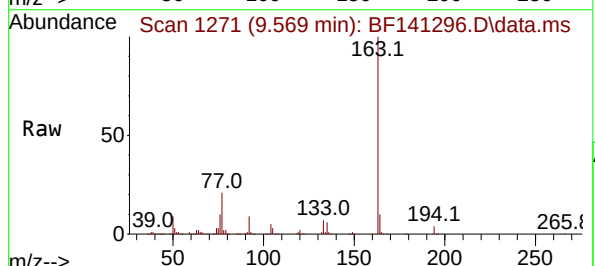
Tgt Ion:163 Resp: 1012298

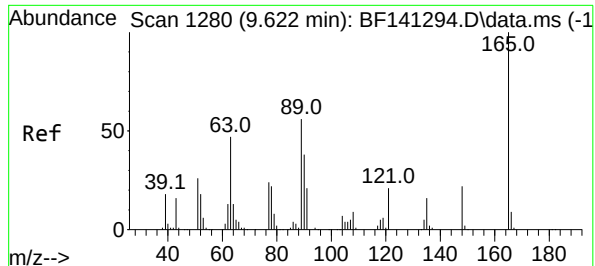
Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.6

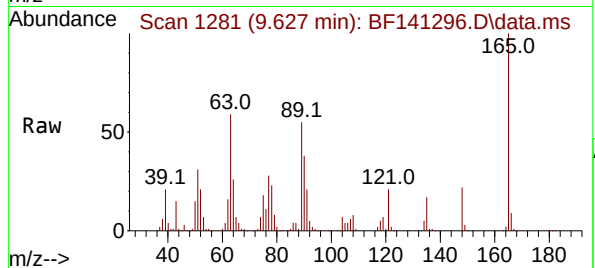
164 10.2 8.0 12.0





#51
2,6-Dinitrotoluene
Concen: 58.050 ng
RT: 9.627 min Scan# 1280
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

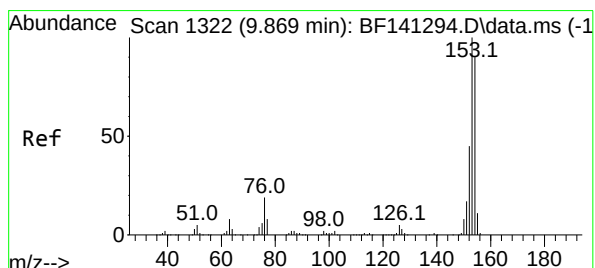
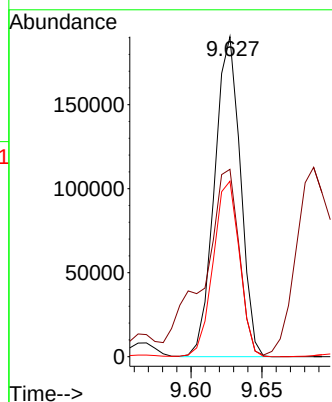
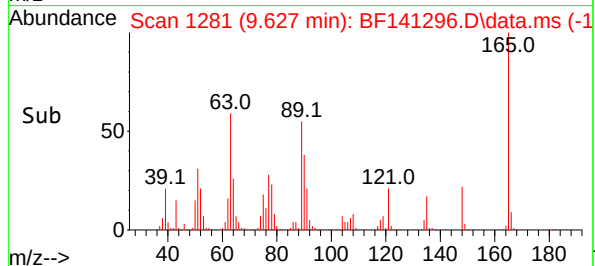
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



Tgt Ion:165 Resp: 24124
Ion Ratio Lower Upper
165 100
63 58.5 48.1 72.1
89 54.8 44.9 67.3

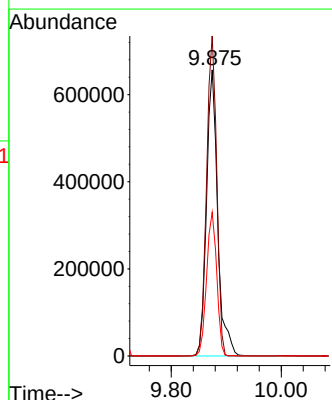
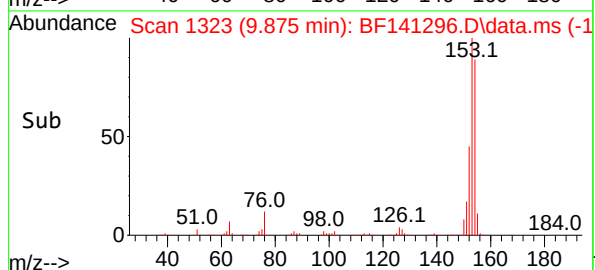
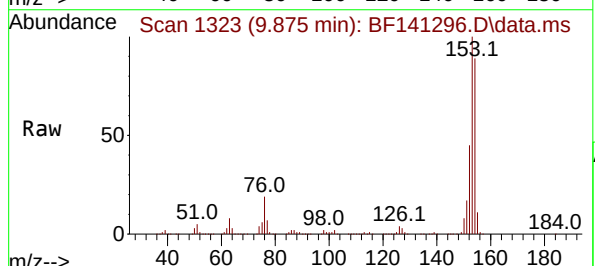
Manual Integrations
APPROVED

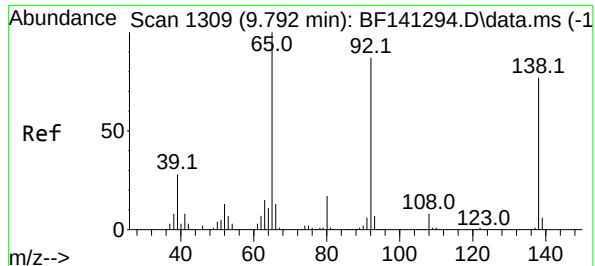
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#52
Acenaphthene
Concen: 56.639 ng
RT: 9.875 min Scan# 1323
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:154 Resp: 921519
Ion Ratio Lower Upper
154 100
153 111.8 89.0 133.4
152 50.2 40.2 60.4





#53

3-Nitroaniline

Concen: 56.245 ng

RT: 9.792 min Scan# 1309

Delta R.T. -0.000 min

Lab File: BF141296.D

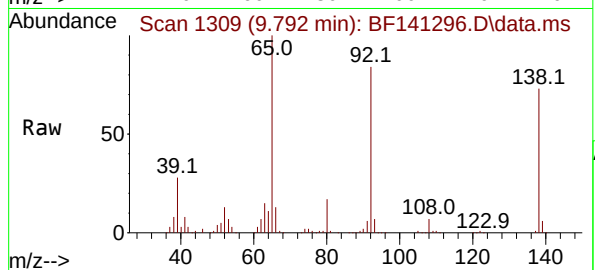
Acq: 29 Jan 2025 16:38

Instrument :

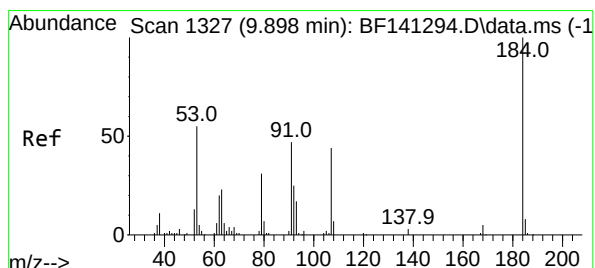
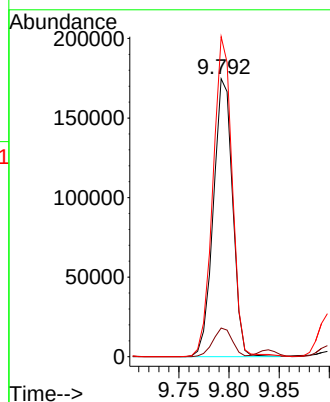
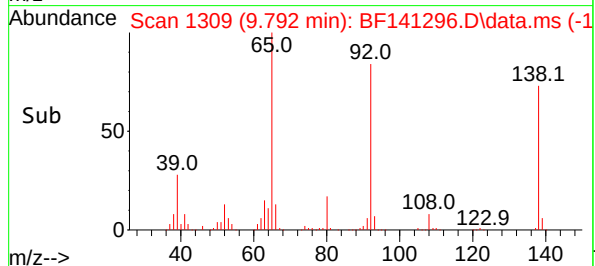
BNA_F

ClientSampleId :

SSTDICC060



Tgt Ion:	138	Resp:	232680
Ion	Ratio	Lower	Upper
138	100		
108	10.3	8.6	12.8
92	115.2	91.0	136.6

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

#54

2,4-Dinitrophenol

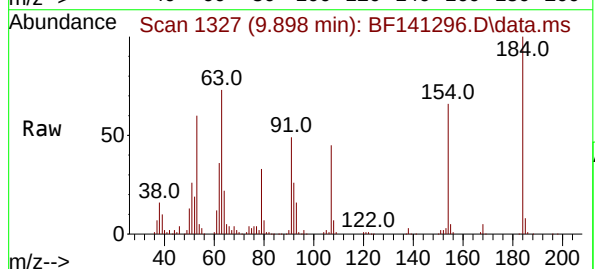
Concen: 84.109 ng

RT: 9.898 min Scan# 1327

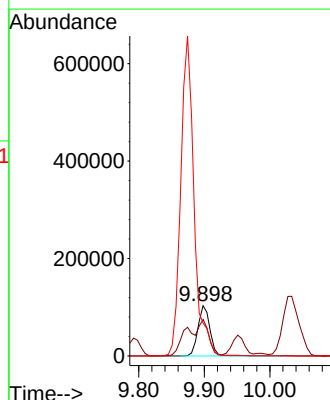
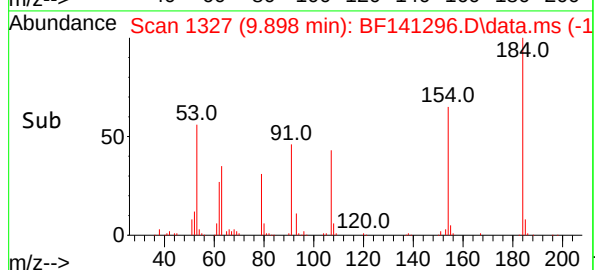
Delta R.T. -0.000 min

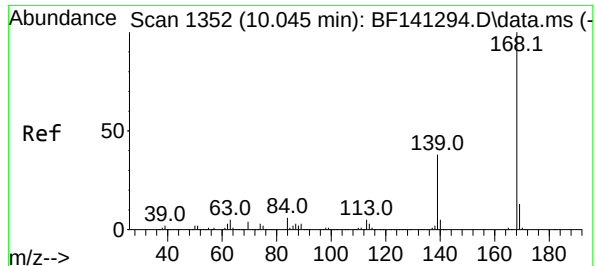
Lab File: BF141296.D

Acq: 29 Jan 2025 16:38



Tgt Ion:	184	Resp:	132244
Ion	Ratio	Lower	Upper
184	100		
63	72.8	54.1	81.1
154	65.5	50.7	76.1





#55

Dibenzofuran

Concen: 54.629 ng

RT: 10.045 min Scan# 1352

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion:168 Resp: 120202

Ion Ratio Lower Upper

168 100

139 38.8 30.6 46.0

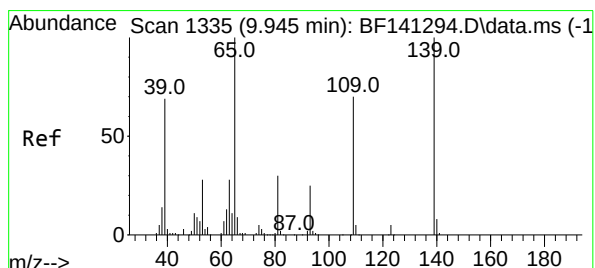
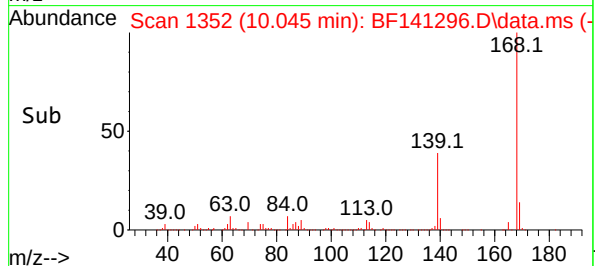
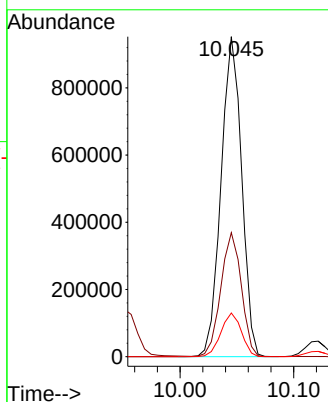
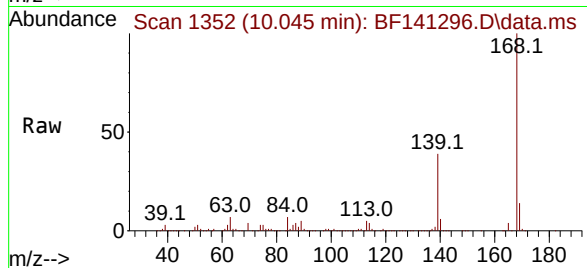
169 13.7 10.8 16.2

Manual Integrations

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#56

4-Nitrophenol

Concen: 66.120 ng

RT: 9.951 min Scan# 1336

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

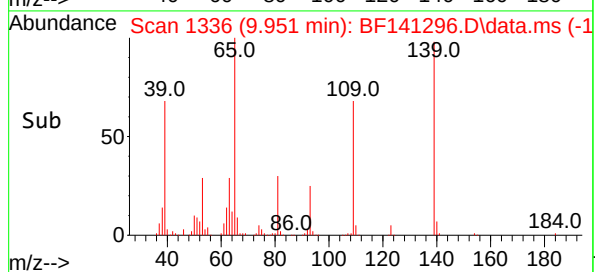
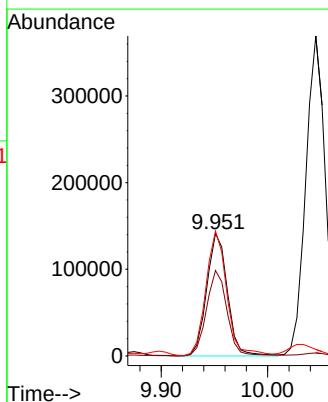
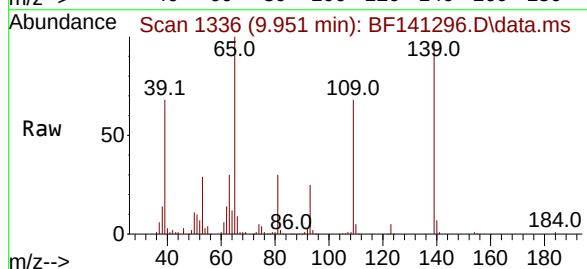
Tgt Ion:139 Resp: 190620

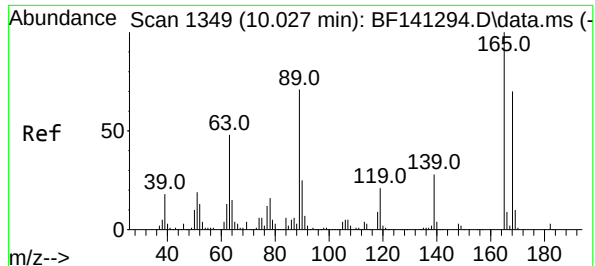
Ion Ratio Lower Upper

139 100

109 69.8 50.2 90.2

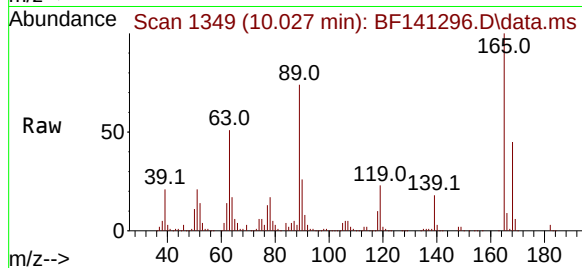
65 102.1 80.6 120.6





#57
2,4-Dinitrotoluene
Concen: 58.312 ng
RT: 10.027 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

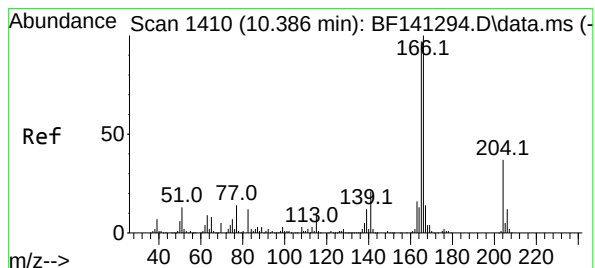
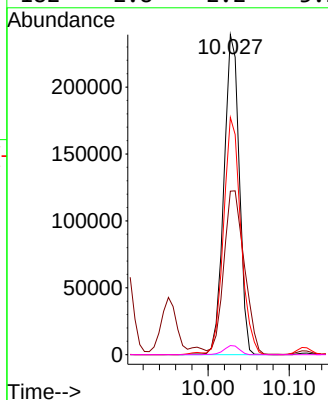
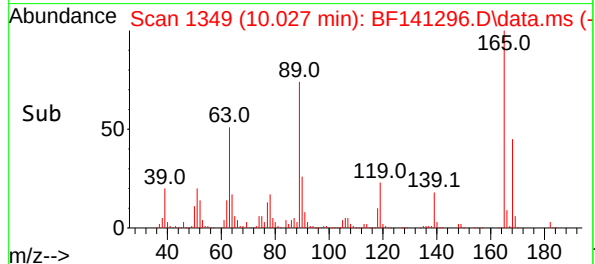
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



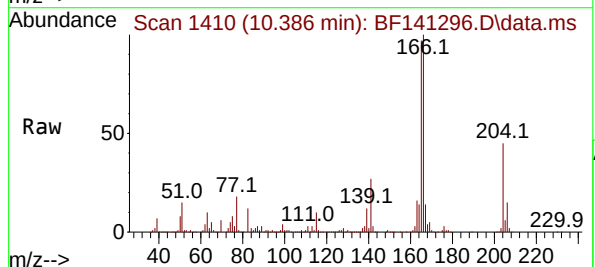
Tgt Ion:165 Resp: 31522
Ion Ratio Lower Upper
165 100
63 51.1 39.2 58.8
89 74.2 56.9 85.3
182 2.8 2.2 3.2

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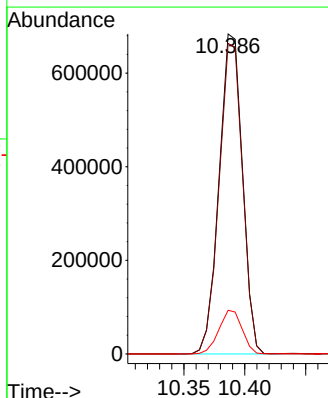
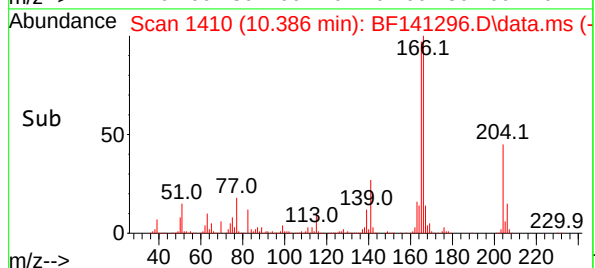
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

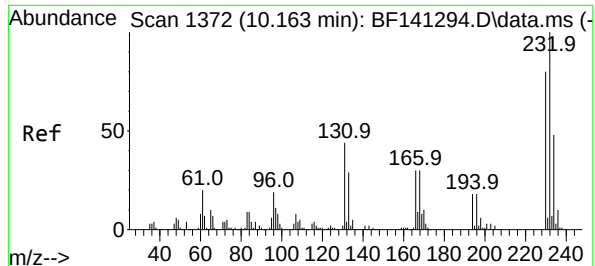


#58
Fluorene
Concen: 53.236 ng
RT: 10.386 min Scan# 1410
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38



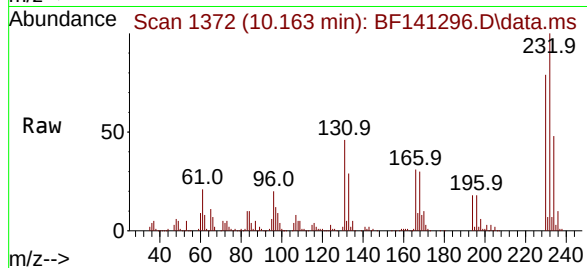
Tgt Ion:166 Resp: 915246
Ion Ratio Lower Upper
166 100
165 97.1 77.5 116.3
167 13.6 10.9 16.3





#59
2,3,4,6-Tetrachlorophenol
Concen: 60.106 ng
RT: 10.163 min Scan# 1372
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

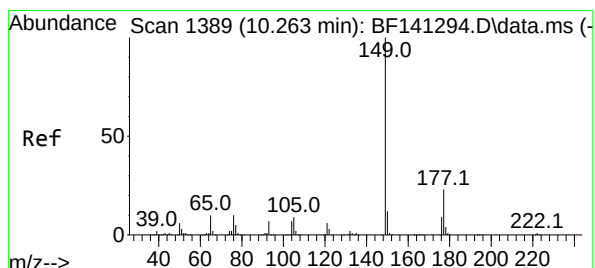
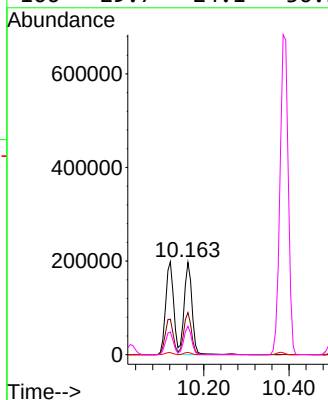
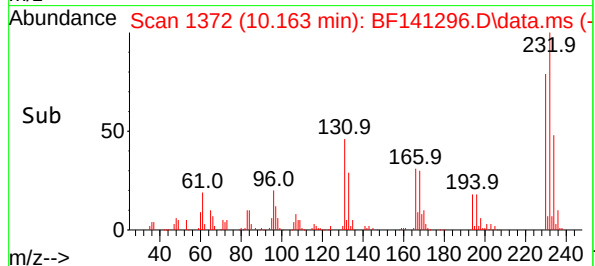
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



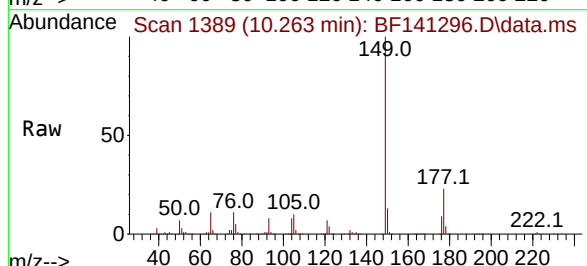
Tgt Ion:232 Resp: 252964
Ion Ratio Lower Upper
232 100
131 45.3 36.4 54.6
130 2.3 1.9 2.9
166 29.7 24.1 36.1

Manual Integrations
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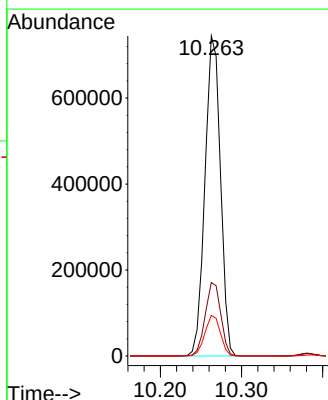
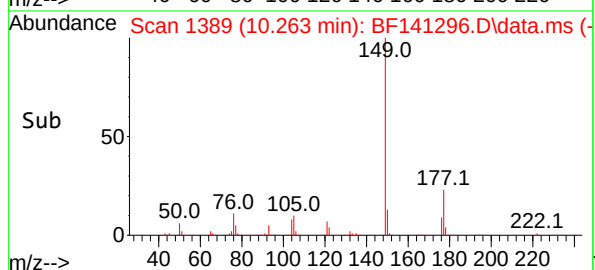
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

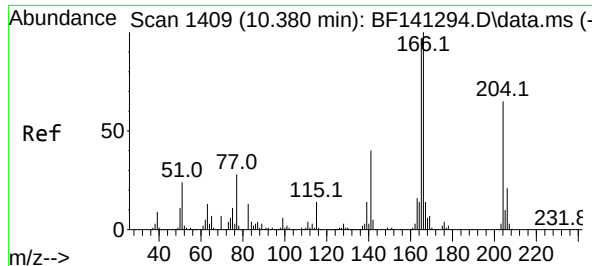


#60
Diethylphthalate
Concen: 55.897 ng
RT: 10.263 min Scan# 1389
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38



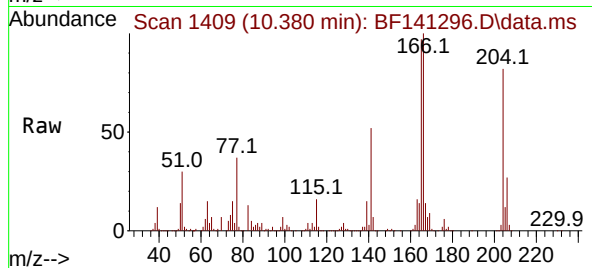
Tgt Ion:149 Resp: 983788
Ion Ratio Lower Upper
149 100
177 22.9 18.5 27.7
150 12.7 10.0 15.0





#61
4-Chlorophenyl-phenylether
Concen: 53.136 ng
RT: 10.380 min Scan# 1409
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

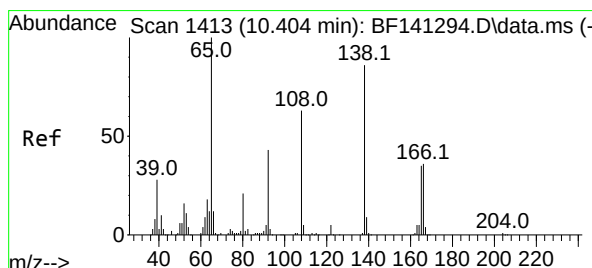
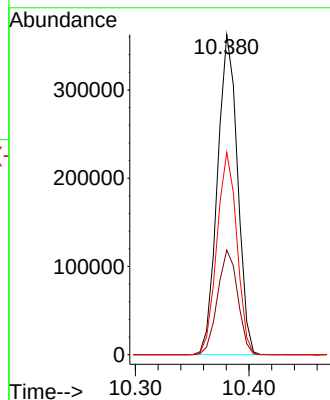
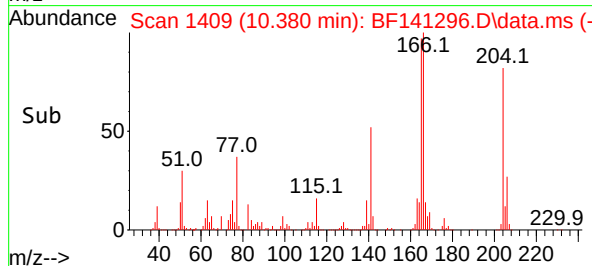
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



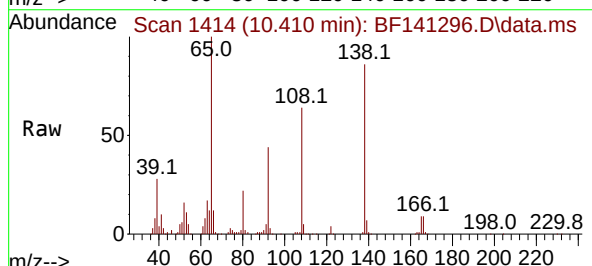
Tgt Ion:204 Resp: 44584
Ion Ratio Lower Upper
204 100
206 32.7 25.9 38.9
141 63.2 49.5 74.3

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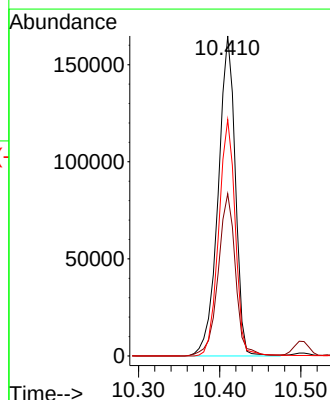
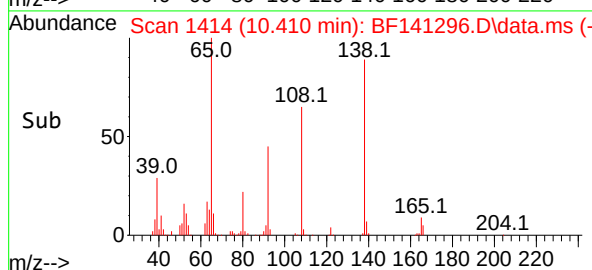
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

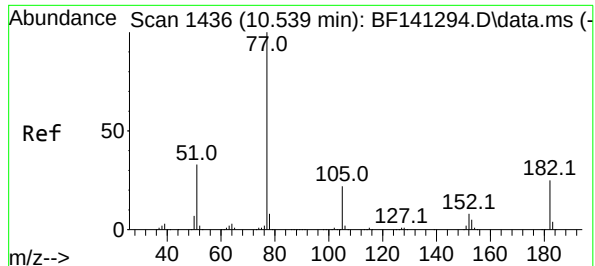


#62
4-Nitroaniline
Concen: 61.216 ng
RT: 10.410 min Scan# 1414
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38



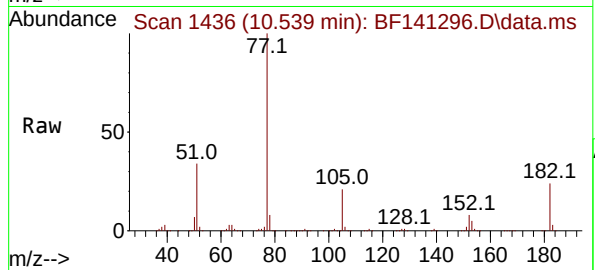
Tgt Ion:138 Resp: 242716
Ion Ratio Lower Upper
138 100
92 50.7 30.1 70.1
108 73.8 53.1 93.1





#63
Azobenzene
Concen: 56.821 ng
RT: 10.539 min Scan# 1436
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

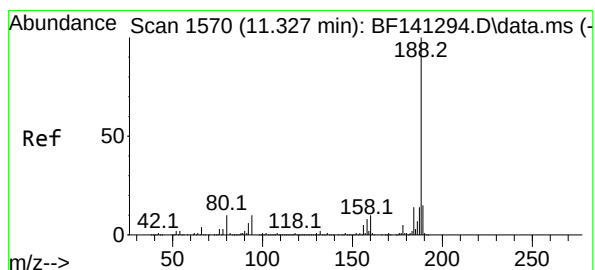
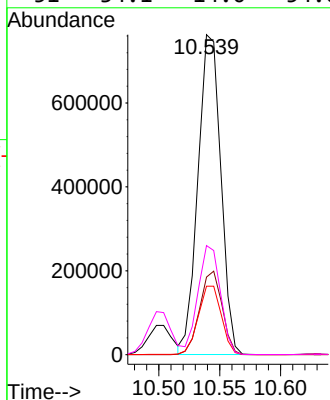
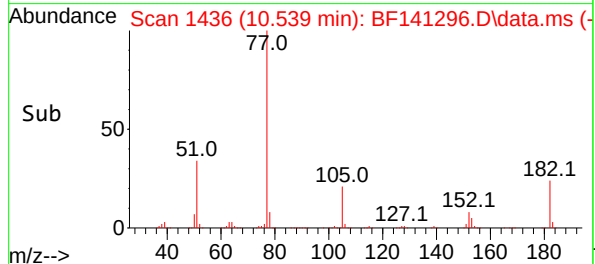
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



Tgt Ion: 77 Resp: 996600
Ion Ratio Lower Upper
77 100
182 24.3 5.1 45.1
105 21.4 1.8 41.8
51 34.1 14.0 54.0

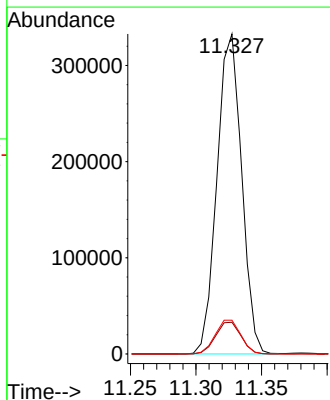
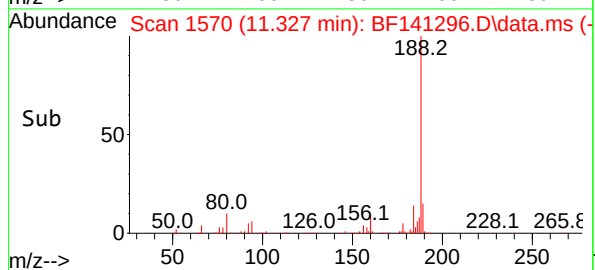
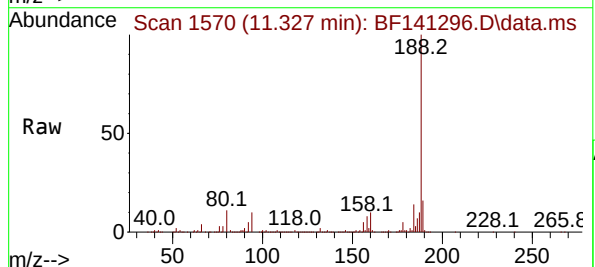
Manual Integrations
APPROVED

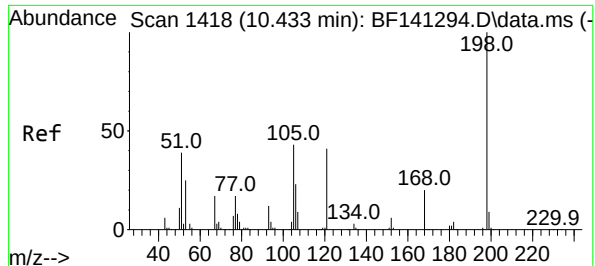
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1570
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

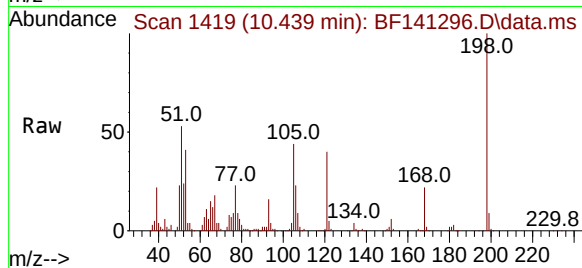
Tgt Ion:188 Resp: 434671
Ion Ratio Lower Upper
188 100
94 9.9 7.8 11.6
80 10.6 8.2 12.4





#65
4,6-Dinitro-2-methylphenol
Concen: 71.103 ng
RT: 10.439 min Scan# 1418
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

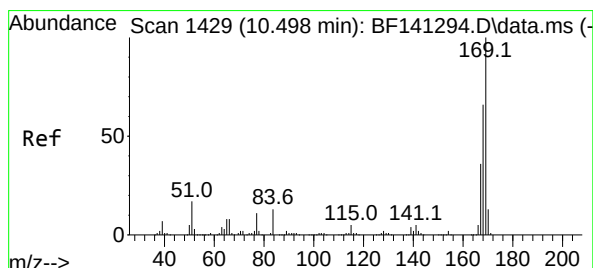
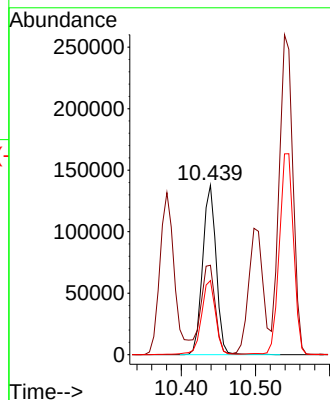
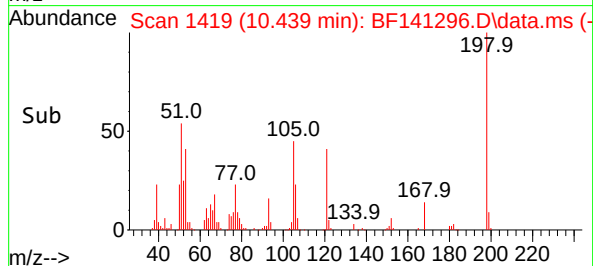
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



Tgt Ion:198 Resp: 17424
Ion Ratio Lower Upper
198 100
51 52.8 33.4 73.4
105 43.7 24.4 64.4

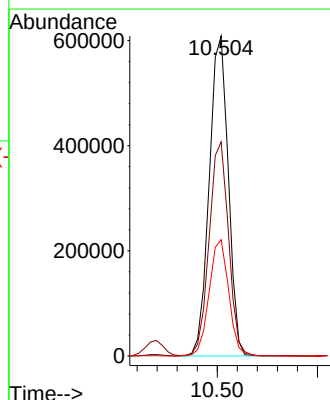
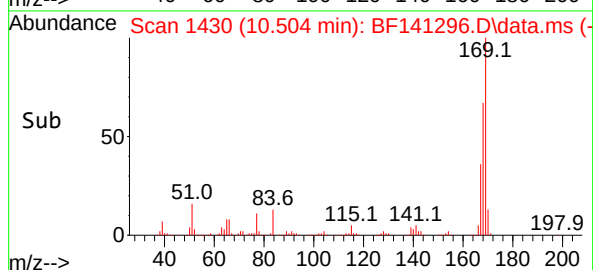
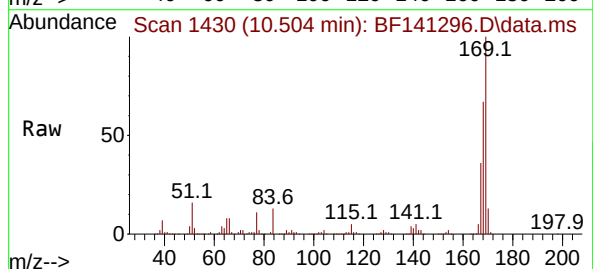
Manual Integrations
APPROVED

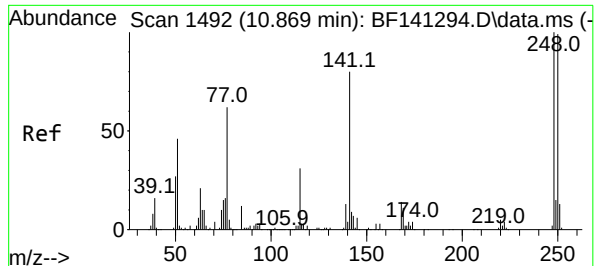
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#66
n-Nitrosodiphenylamine
Concen: 55.423 ng
RT: 10.504 min Scan# 1430
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

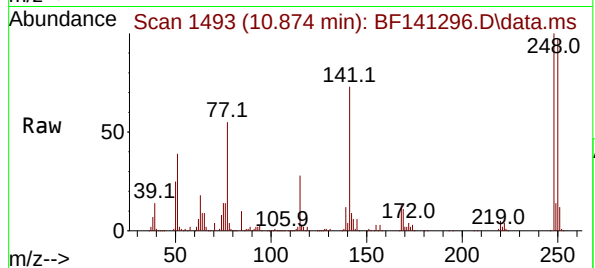
Tgt Ion:169 Resp: 800147
Ion Ratio Lower Upper
169 100
168 66.9 53.0 79.4
167 36.3 28.8 43.2





#67
4-Bromophenyl-phenylether
Concen: 57.957 ng
RT: 10.874 min Scan# 1492
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

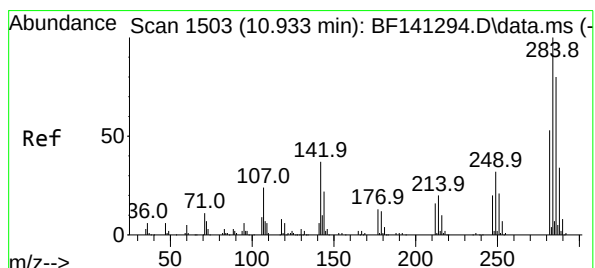
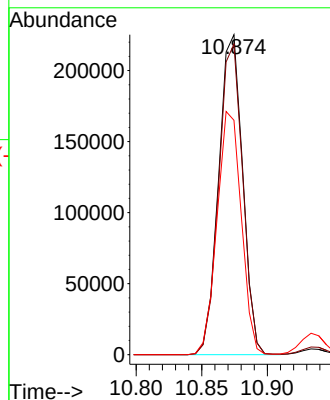
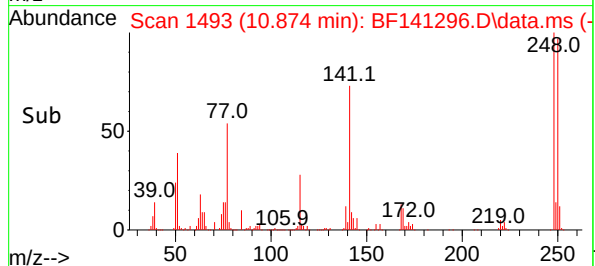
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



Tgt Ion:248 Resp: 28664
Ion Ratio Lower Upper
248 100
250 97.0 79.0 118.4
141 73.2 63.7 95.5

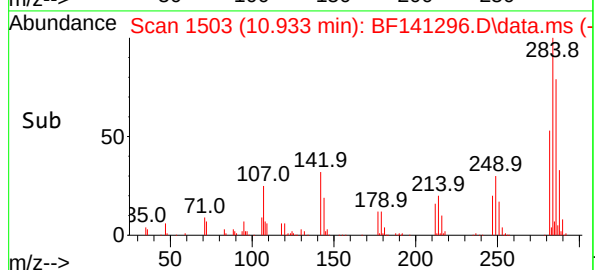
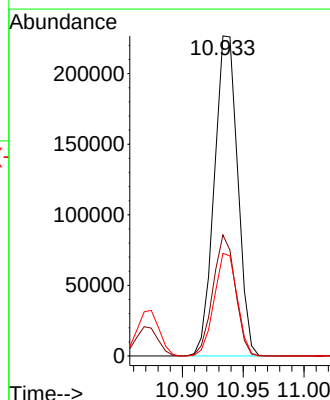
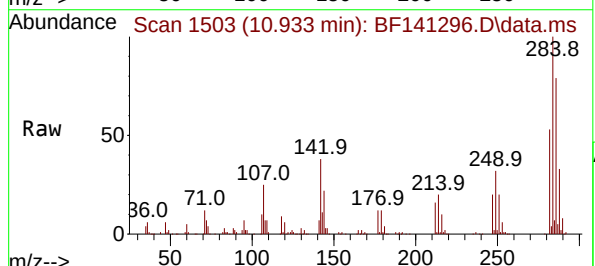
Manual Integrations
APPROVED

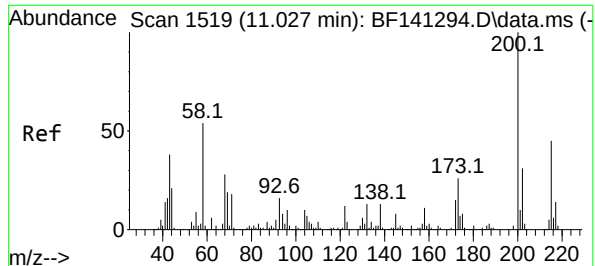
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#68
Hexachlorobenzene
Concen: 57.366 ng
RT: 10.933 min Scan# 1503
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:284 Resp: 302508
Ion Ratio Lower Upper
284 100
142 37.8 29.5 44.3
249 32.0 25.4 38.2





#69

Atrazine

Concen: 66.863 ng

RT: 11.033 min Scan# 1519

Delta R.T. 0.006 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDIC060

Tgt Ion:200 Resp: 306524

Ion Ratio Lower Upper

200 100

173 25.6 5.9 45.9

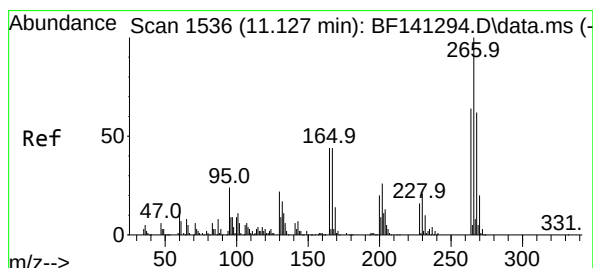
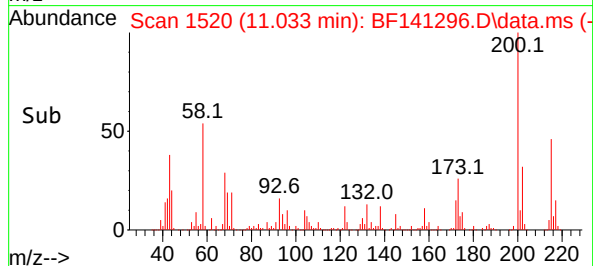
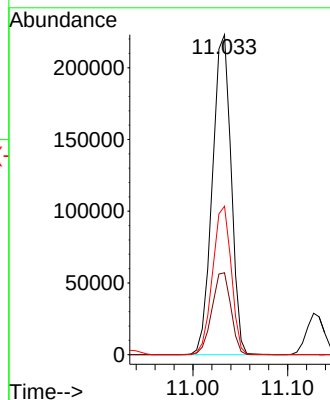
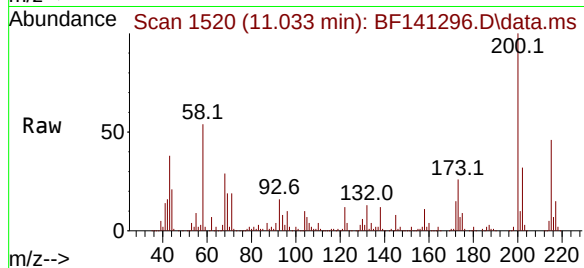
215 46.4 25.2 65.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#70

Pentachlorophenol

Concen: 65.443 ng

RT: 11.127 min Scan# 1536

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

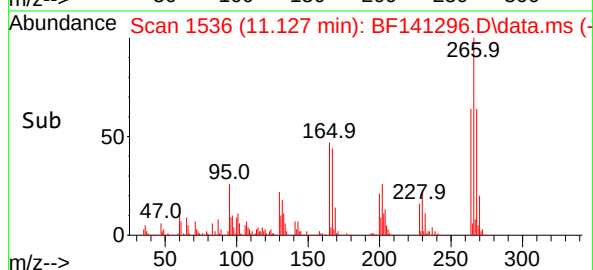
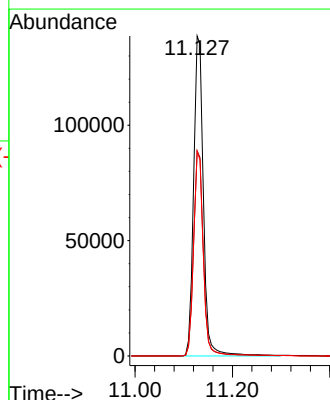
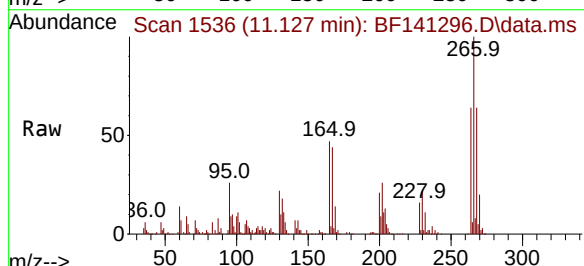
Tgt Ion:266 Resp: 194335

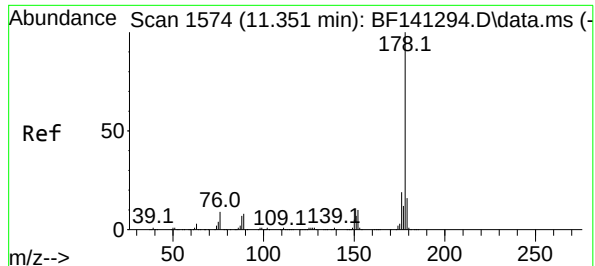
Ion Ratio Lower Upper

266 100

268 64.1 49.9 74.9

264 63.9 51.0 76.4





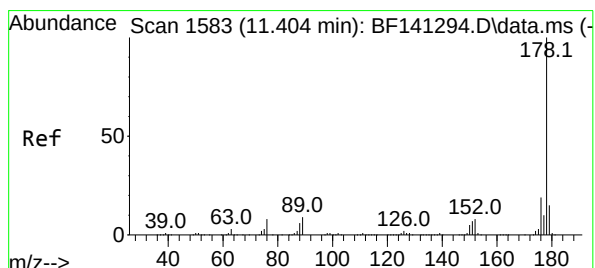
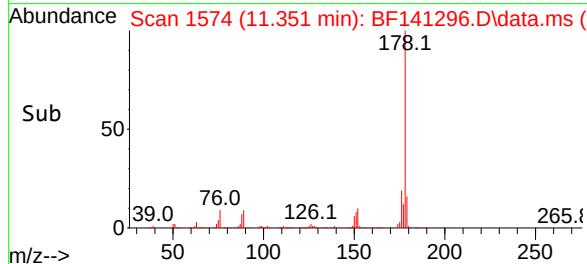
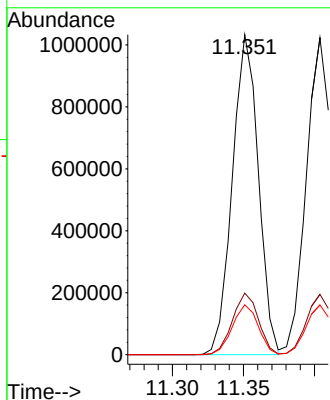
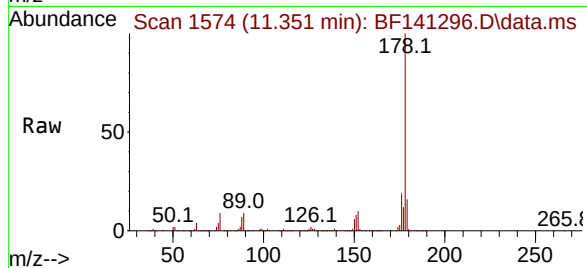
#71
Phenanthrene
Concen: 54.311 ng
RT: 11.351 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:178 Resp: 1316980
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.6 12.5 18.7

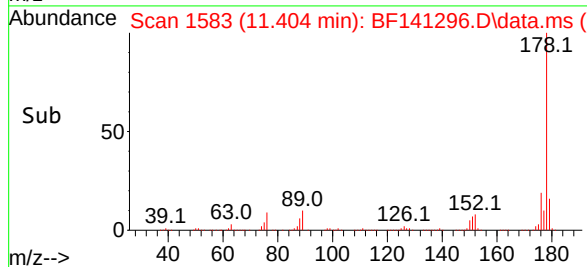
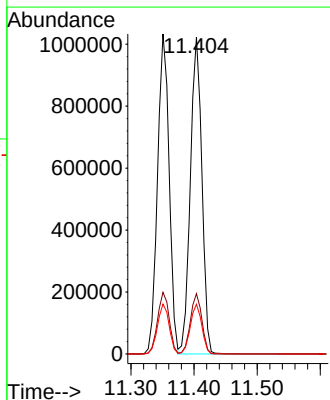
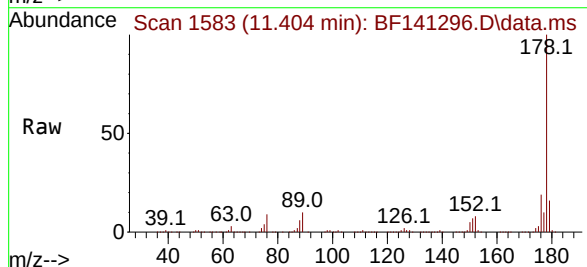
Manual Integrations
APPROVED

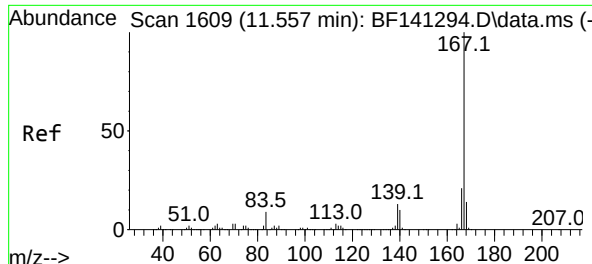
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#72
Anthracene
Concen: 54.763 ng
RT: 11.404 min Scan# 1583
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

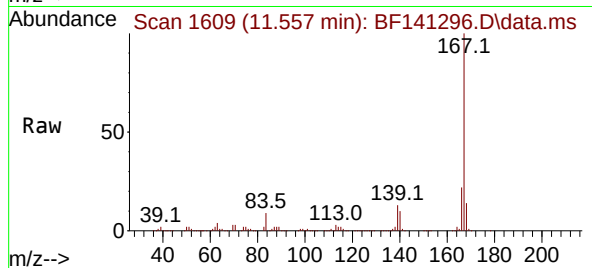
Tgt Ion:178 Resp: 1298334
Ion Ratio Lower Upper
178 100
176 19.0 15.0 22.6
179 15.7 12.3 18.5





#73
Carbazole
Concen: 55.874 ng
RT: 11.557 min Scan# 1609
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

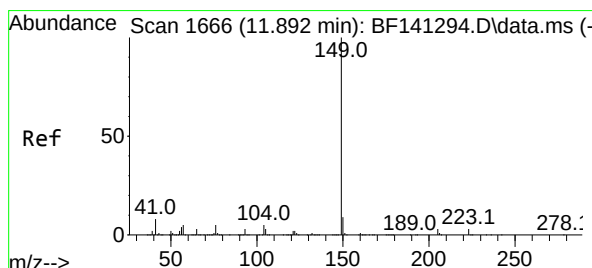
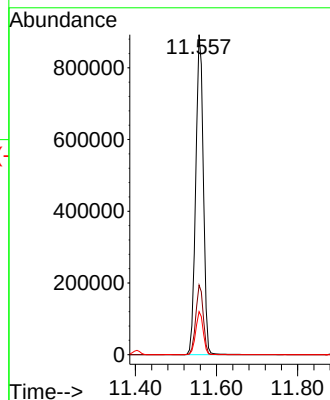
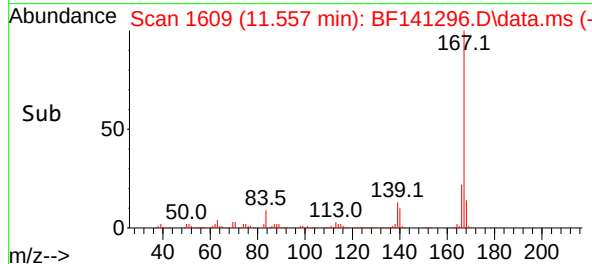
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



Tgt Ion:167 Resp: 1173330
Ion Ratio Lower Upper
167 100
166 21.7 17.0 25.6
139 13.4 10.6 16.0

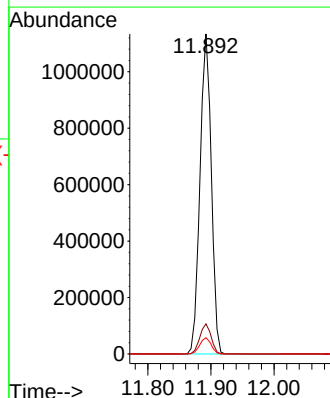
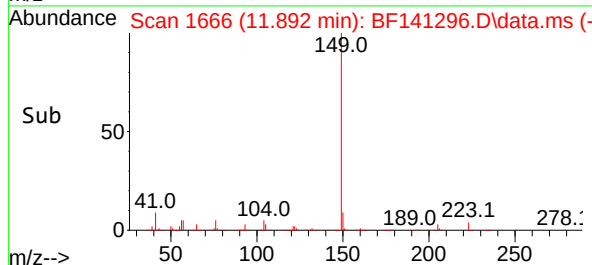
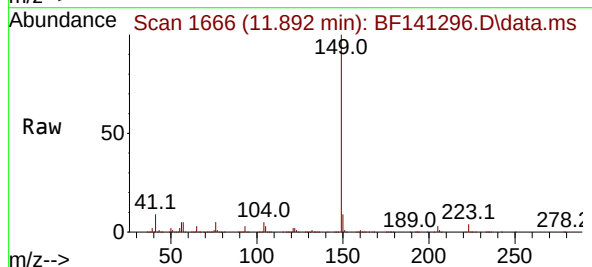
Manual Integrations
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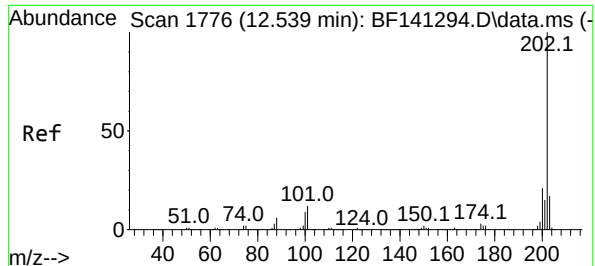
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#74
Di-n-butylphthalate
Concen: 55.325 ng
RT: 11.892 min Scan# 1666
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

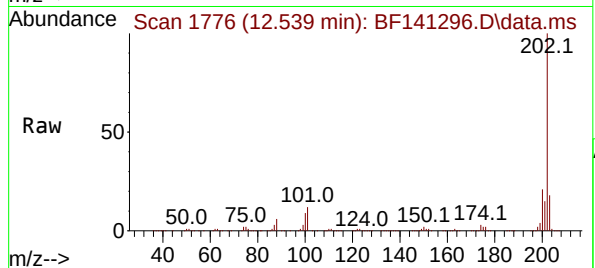
Tgt Ion:149 Resp: 1410222
Ion Ratio Lower Upper
149 100
150 9.4 7.4 11.2
104 5.1 3.9 5.9





#75
Fluoranthene
Concen: 52.878 ng
RT: 12.539 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

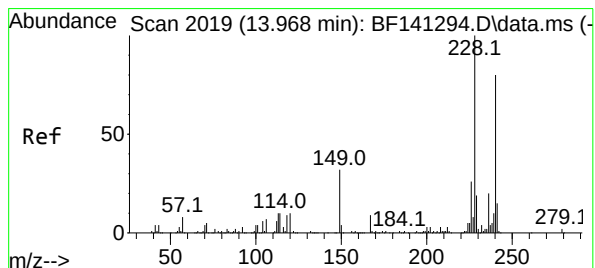
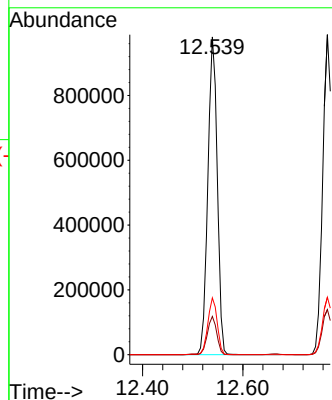
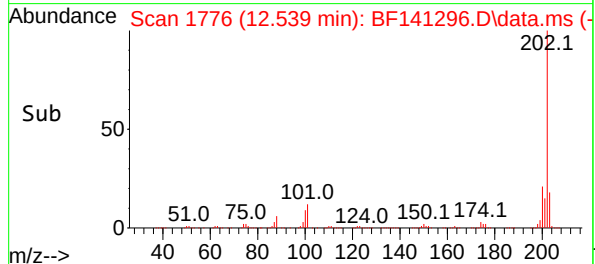
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



Tgt Ion:202 Resp: 1279999
Ion Ratio Lower Upper
202 100
101 12.0 0.0 31.7
203 17.9 0.0 37.5

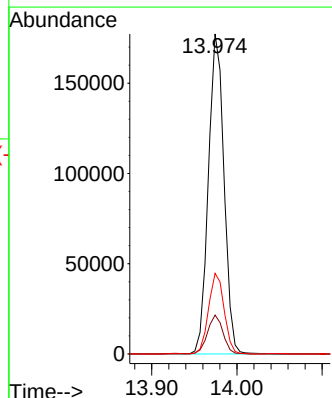
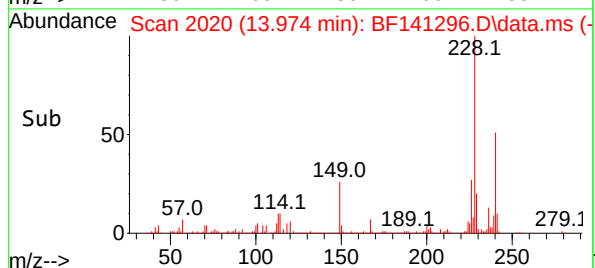
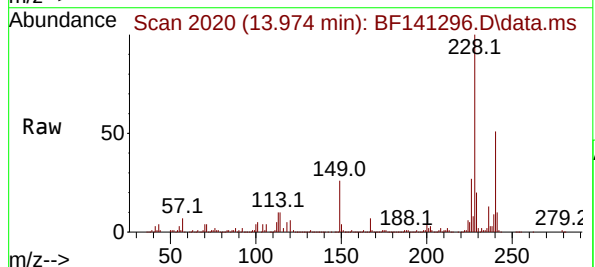
Manual Integrations
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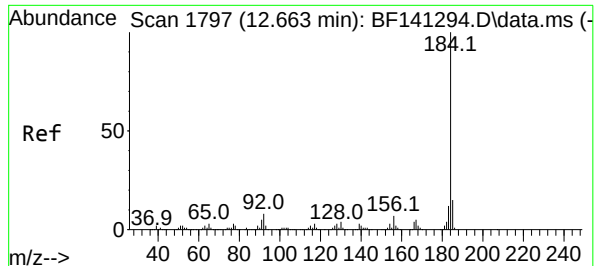
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2020
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

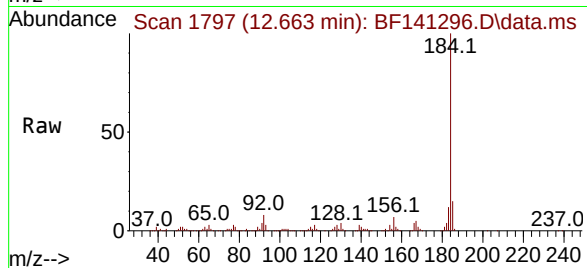
Tgt Ion:240 Resp: 225615
Ion Ratio Lower Upper
240 100
120 12.1 10.0 15.0
236 25.2 19.7 29.5





#77
Benzidine
Concen: 67.692 ng
RT: 12.663 min Scan# 1797
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

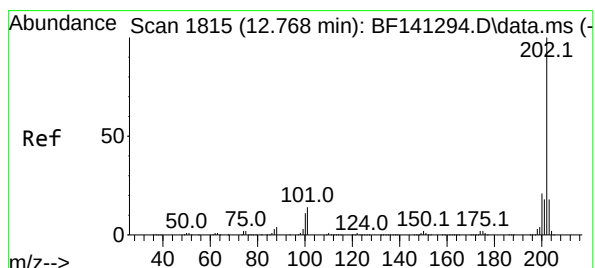
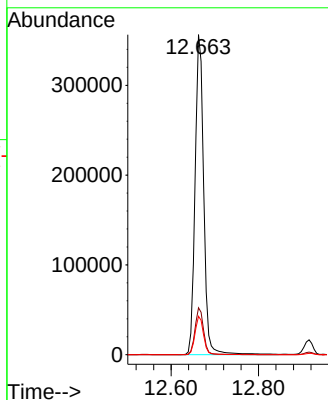
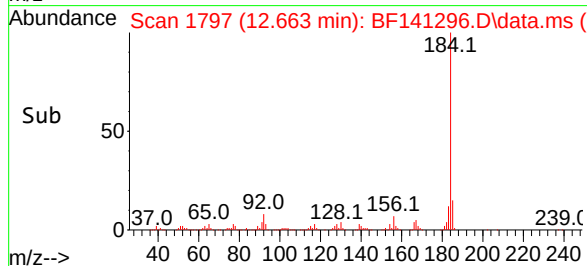
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



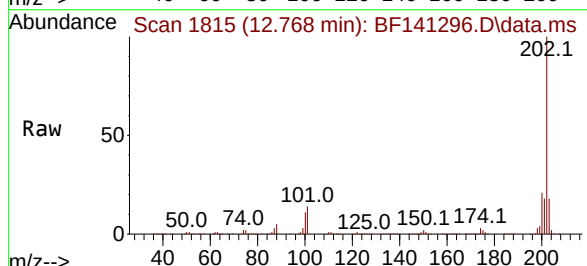
Tgt Ion:184 Resp: 490009
Ion Ratio Lower Upper
184 100
185 14.7 11.9 17.9
183 12.0 9.5 14.3

Manual Integrations
APPROVED

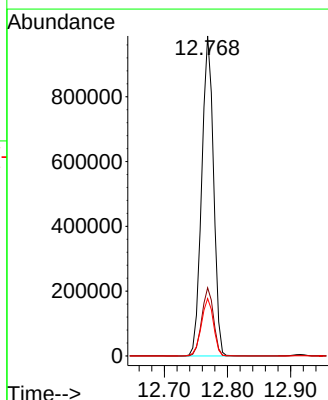
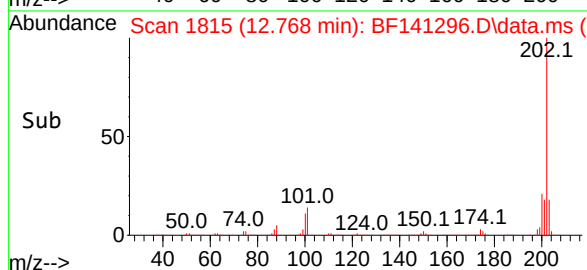
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

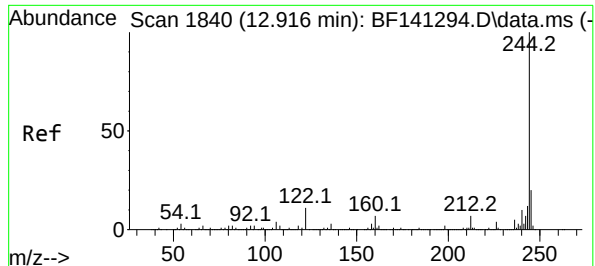


#78
Pyrene
Concen: 57.717 ng
RT: 12.768 min Scan# 1815
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38



Tgt Ion:202 Resp: 1284820
Ion Ratio Lower Upper
202 100
200 21.3 17.0 25.4
203 18.0 14.3 21.5





#79

Terphenyl-d14

Concen: 109.453 ng

RT: 12.916 min Scan# 1840

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion:244 Resp: 166559

Ion Ratio Lower Upper

244 100

212 6.9 5.4 8.0

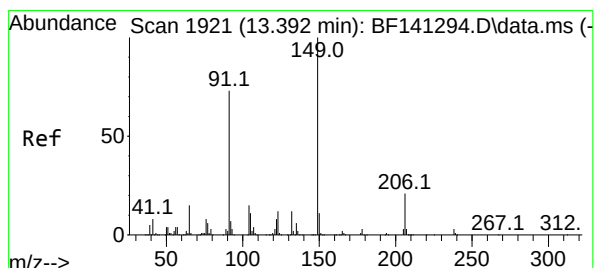
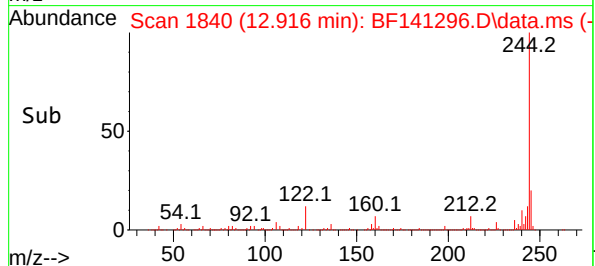
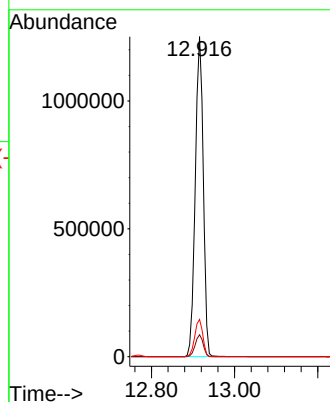
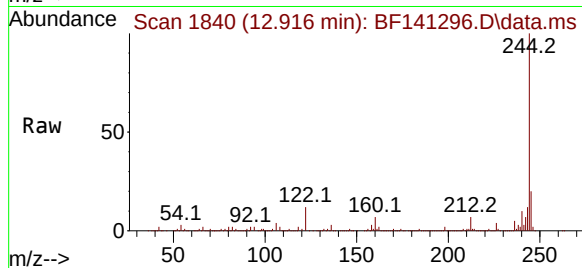
122 11.6 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#80

Butylbenzylphthalate

Concen: 60.745 ng

RT: 13.392 min Scan# 1921

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

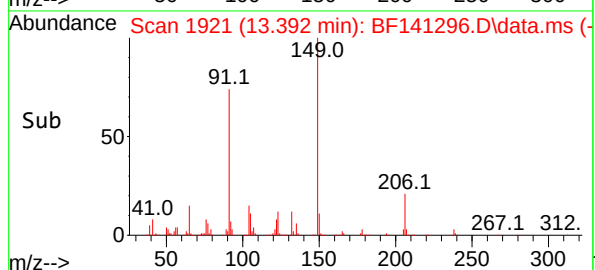
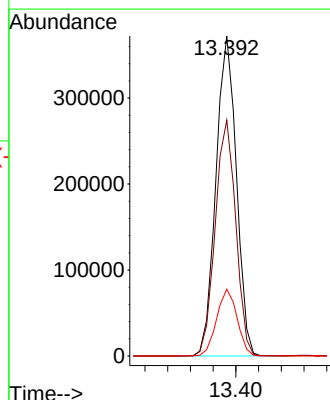
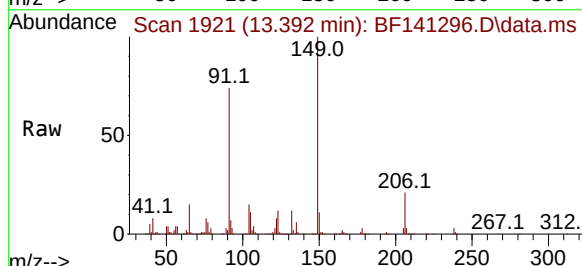
Tgt Ion:149 Resp: 465533

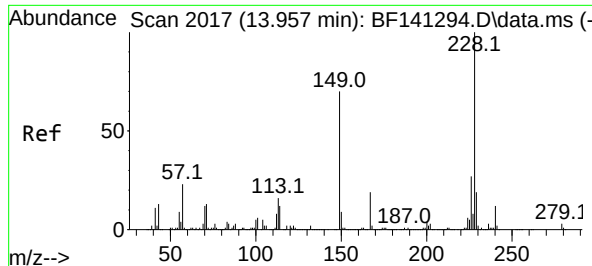
Ion Ratio Lower Upper

149 100

91 73.7 58.6 87.8

206 20.8 16.7 25.1





#81

Benzo(a)anthracene

Concen: 57.742 ng

RT: 13.962 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion:228 Resp: 917219

Ion Ratio Lower Upper

228 100

226 27.4 21.4 32.2

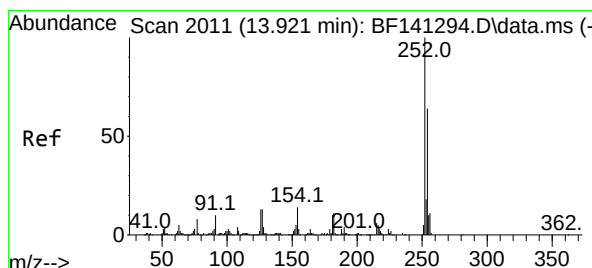
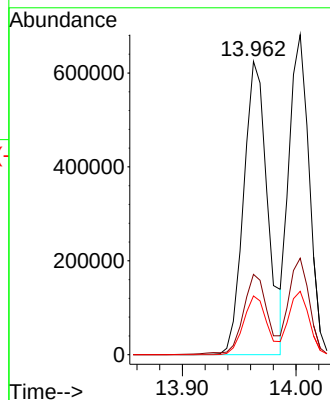
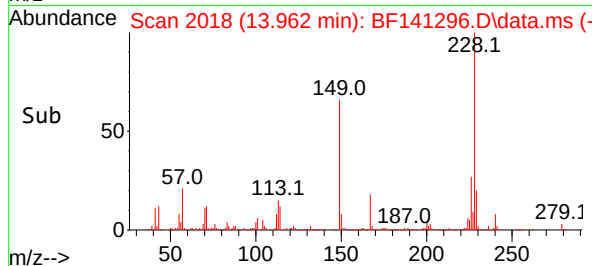
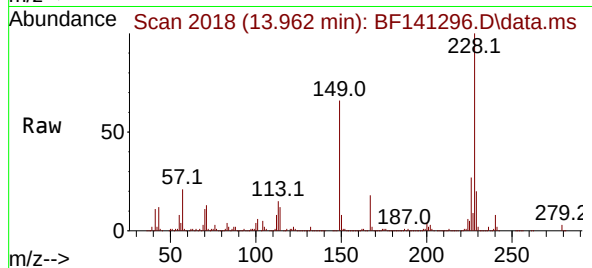
229 20.0 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#82

3,3'-Dichlorobenzidine

Concen: 64.819 ng

RT: 13.927 min Scan# 2012

Delta R.T. 0.006 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

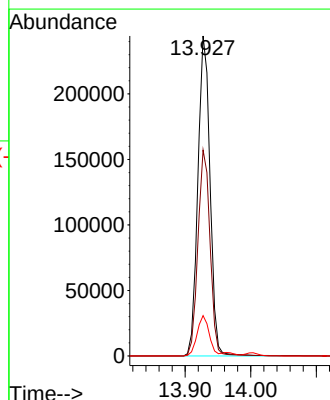
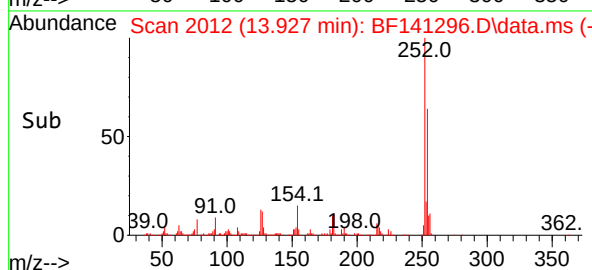
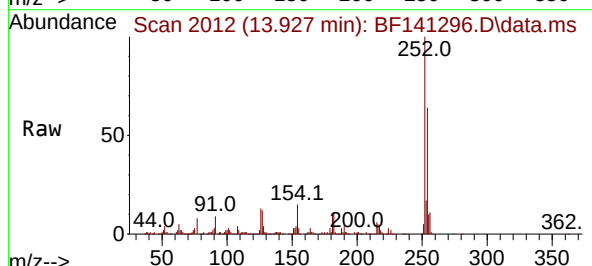
Tgt Ion:252 Resp: 315503

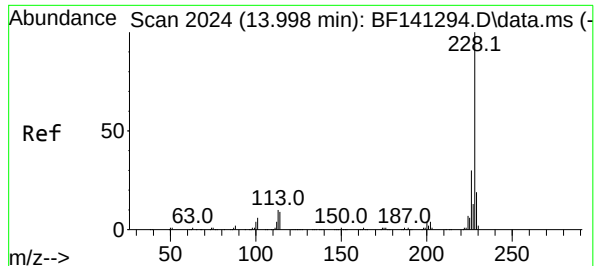
Ion Ratio Lower Upper

252 100

254 64.4 51.3 76.9

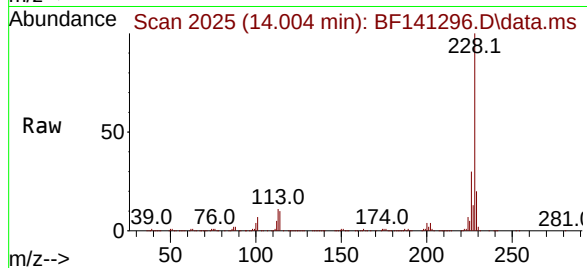
126 12.6 10.0 15.0





#83
Chrysene
Concen: 58.239 ng
RT: 14.004 min Scan# 2025
Delta R.T. 0.006 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

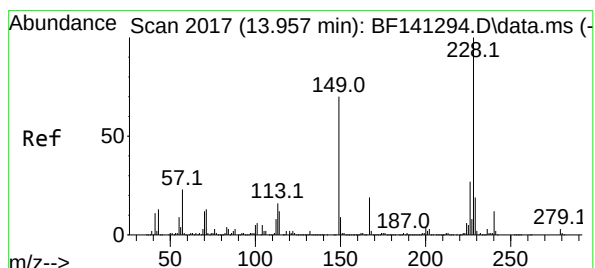
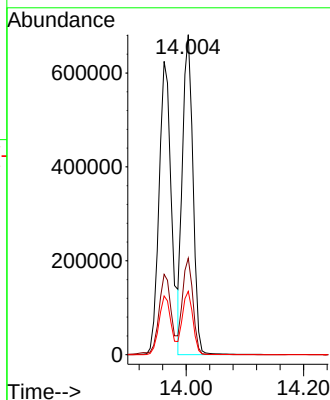
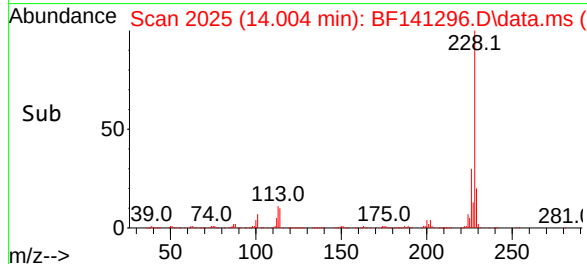
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



Tgt Ion:228 Resp: 841120
Ion Ratio Lower Upper
228 100
226 30.1 24.1 36.1
229 19.8 15.6 23.4

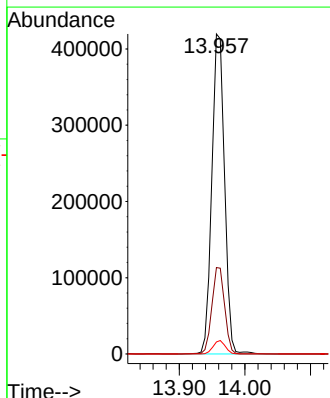
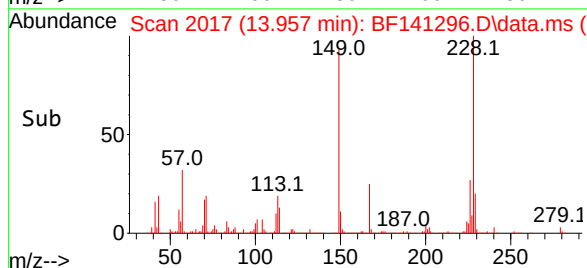
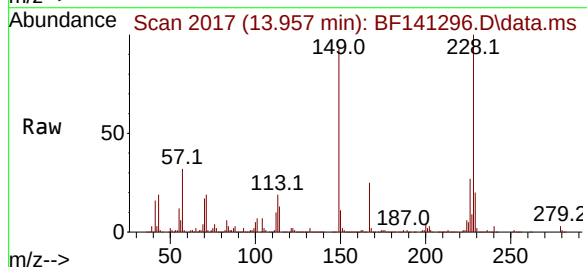
Manual Integrations
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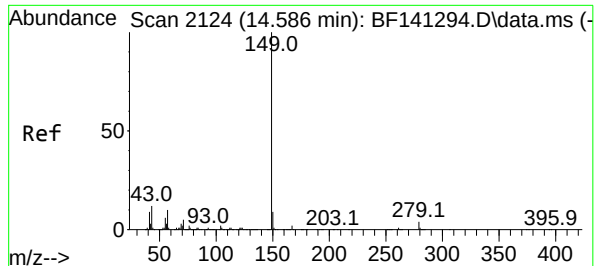
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#84
Bis(2-ethylhexyl)phthalate
Concen: 57.438 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.000 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

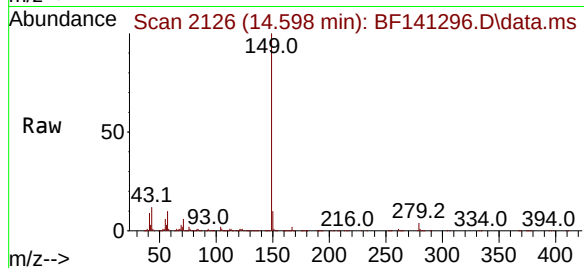
Tgt Ion:149 Resp: 564642
Ion Ratio Lower Upper
149 100
167 27.0 21.8 32.8
279 3.8 3.3 4.9





#85
Di-n-octyl phthalate
Concen: 64.953 ng
RT: 14.598 min Scan# 2124
Delta R.T. 0.012 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

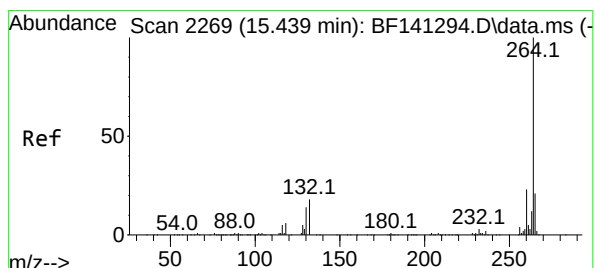
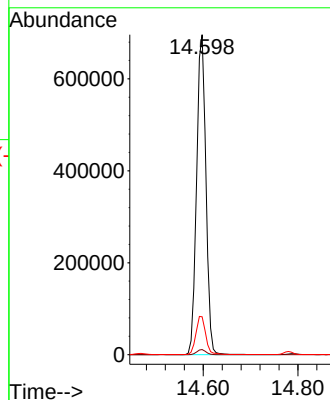
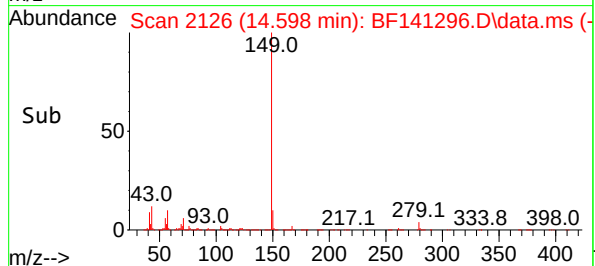
Instrument :
BNA_F
ClientSampleId :
SSTDICC060



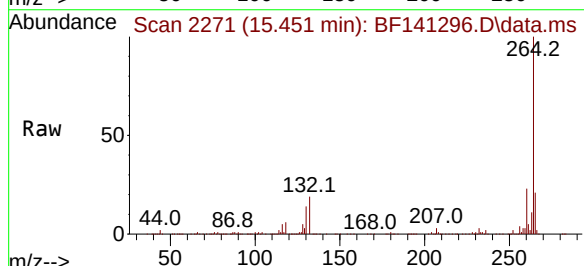
Tgt Ion:149 Resp: 95147
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 12.6 9.8 14.8

Manual Integrations
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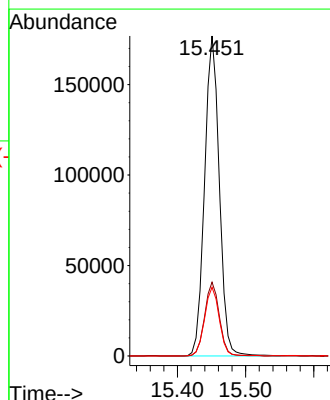
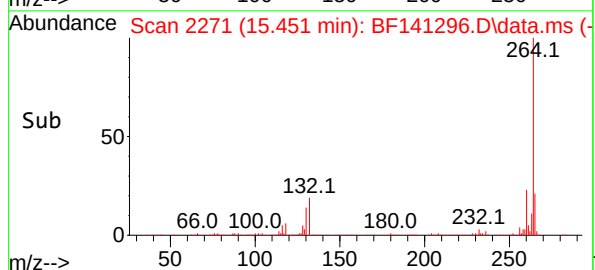
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

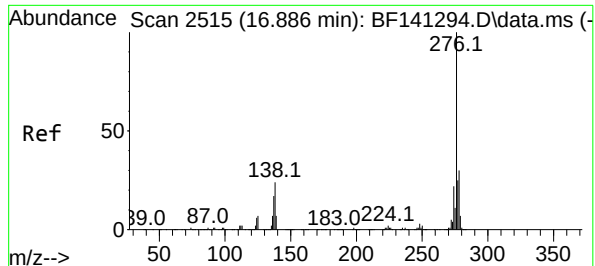


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.451 min Scan# 2271
Delta R.T. 0.012 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38



Tgt Ion:264 Resp: 265921
Ion Ratio Lower Upper
264 100
260 23.0 18.6 27.8
265 21.5 16.7 25.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 61.732 ng

RT: 16.909 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

SSTDICC060

Tgt Ion:276 Resp: 105498

Ion Ratio Lower Upper

276 100

138 27.6 21.7 32.5

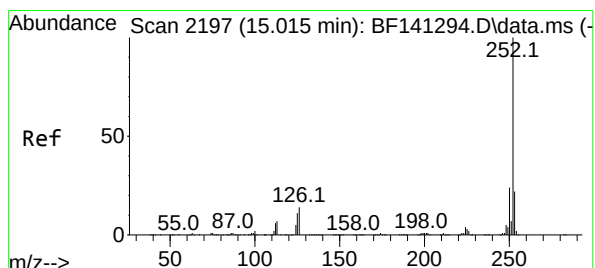
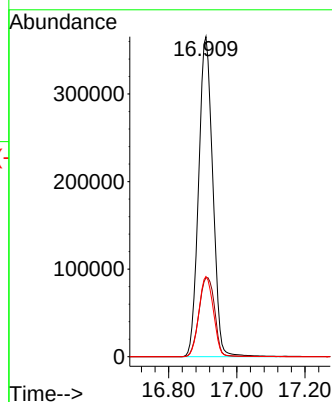
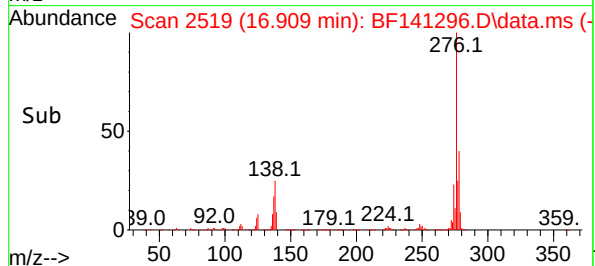
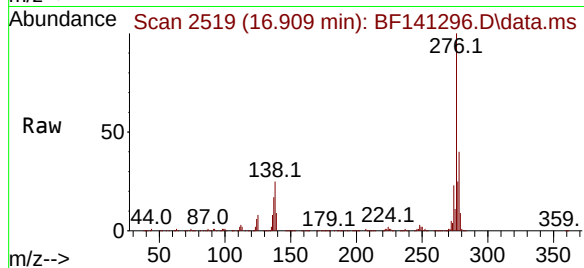
277 25.8 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#88

Benzo(b)fluoranthene

Concen: 56.615 ng

RT: 15.033 min Scan# 2200

Delta R.T. 0.018 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

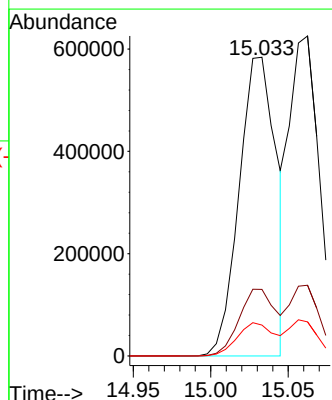
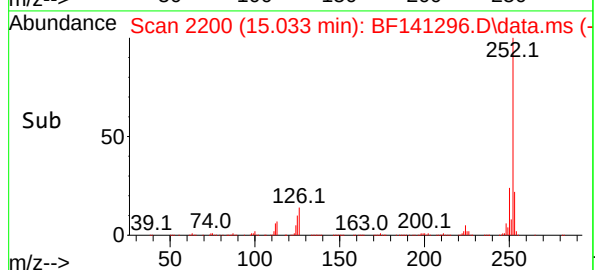
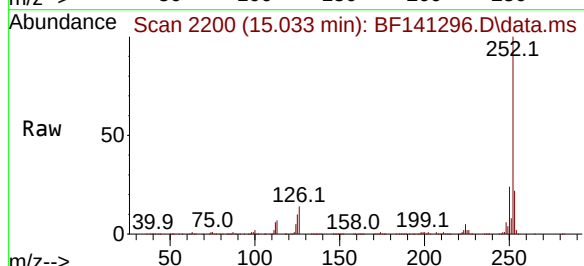
Tgt Ion:252 Resp: 971433

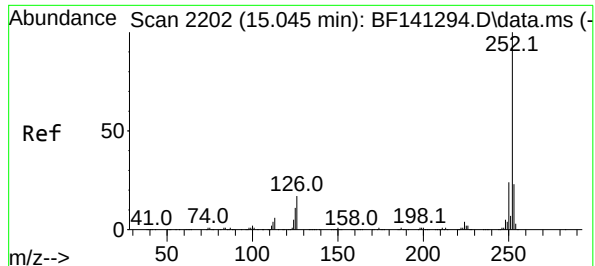
Ion Ratio Lower Upper

252 100

253 22.3 17.4 26.2

125 10.3 8.6 12.8





#89

Benzo(k)fluoranthene

Concen: 55.934 ng

RT: 15.062 min Scan# 21

Delta R.T. 0.018 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Instrument :

BNA_F

ClientSampleId :

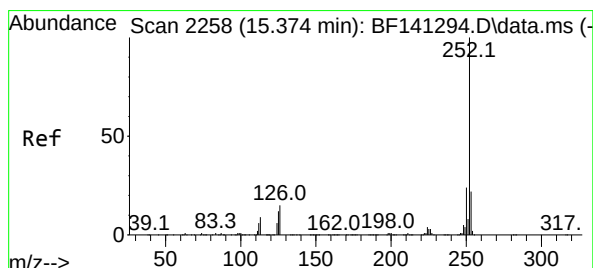
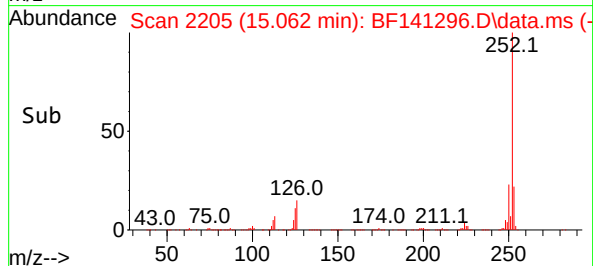
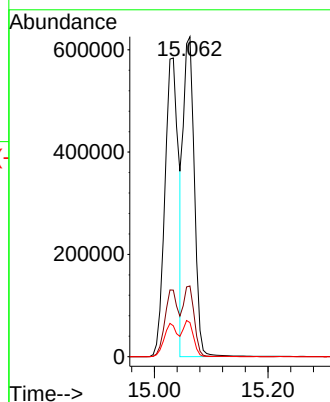
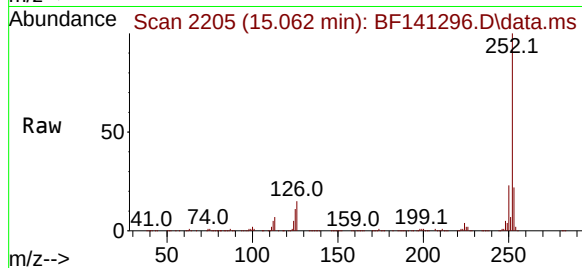
SSTDICC060

Tgt Ion:	252	Resp:	84584
Ion Ratio	Lower	Upper	
252	100		
253	22.1	17.6	26.4
125	10.6	8.4	12.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#90

Benzo(a)pyrene

Concen: 58.588 ng

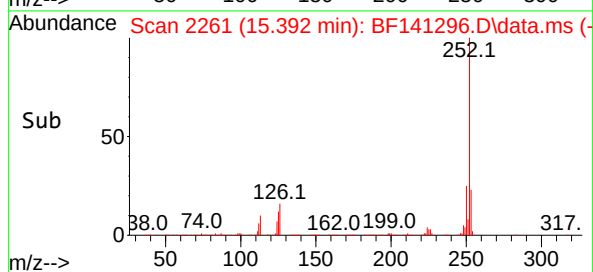
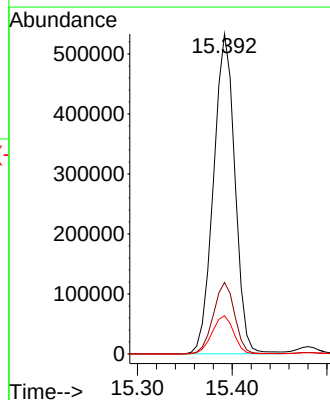
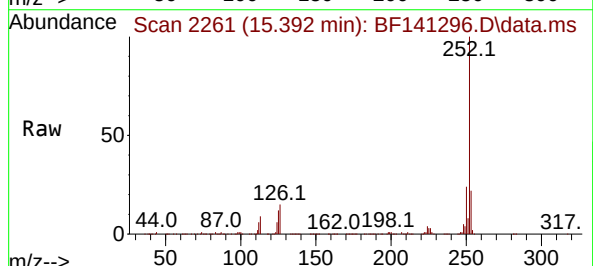
RT: 15.392 min Scan# 2261

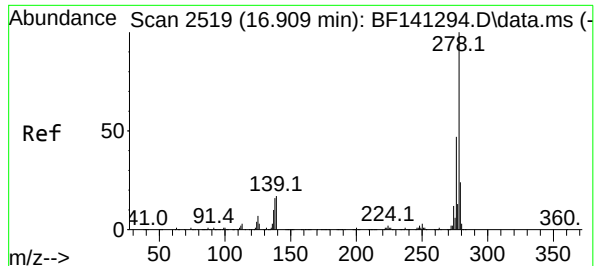
Delta R.T. 0.012 min

Lab File: BF141296.D

Acq: 29 Jan 2025 16:38

Tgt Ion:	252	Resp:	838283
Ion Ratio	Lower	Upper	
252	100		
253	22.4	17.2	25.8
125	12.0	9.4	14.2





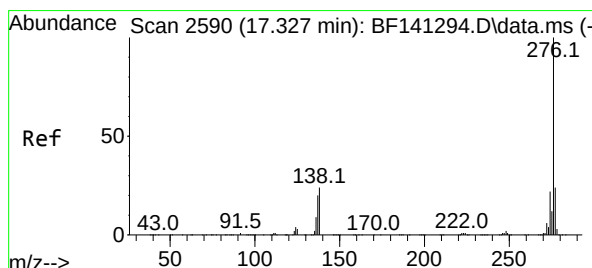
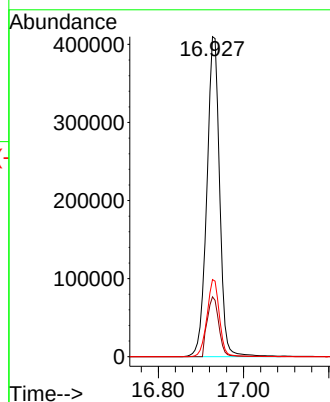
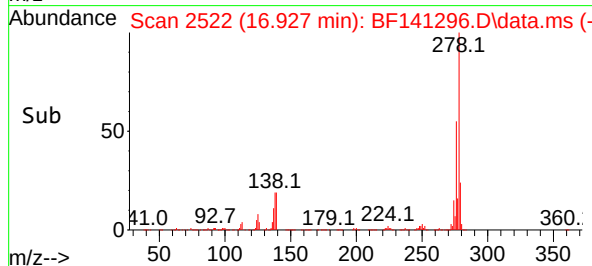
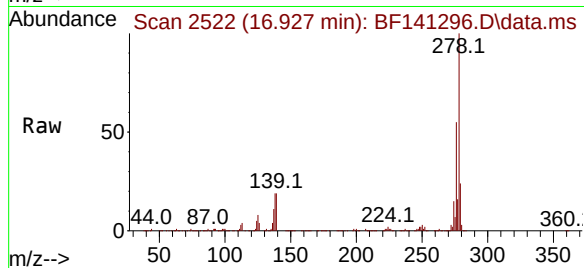
#91
Dibenzo(a,h)anthracene
Concen: 62.119 ng
RT: 16.927 min Scan# 2519
Delta R.T. 0.012 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Instrument :
BNA_F
ClientSampleId :
SSTDICC060

Tgt Ion:278 Resp: 854214
Ion Ratio Lower Upper
278 100
139 18.7 13.9 20.9
279 24.1 18.8 28.2

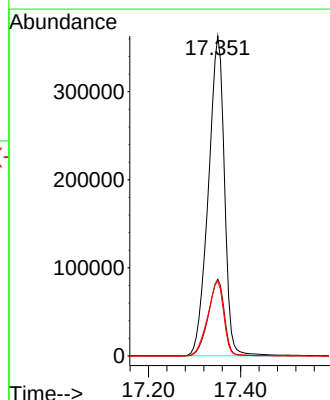
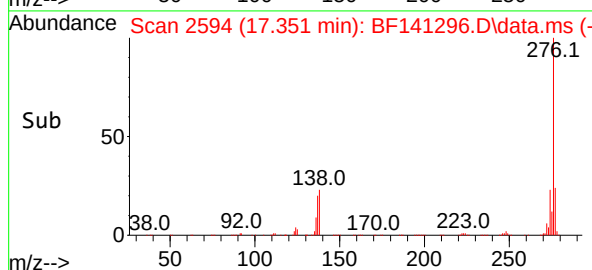
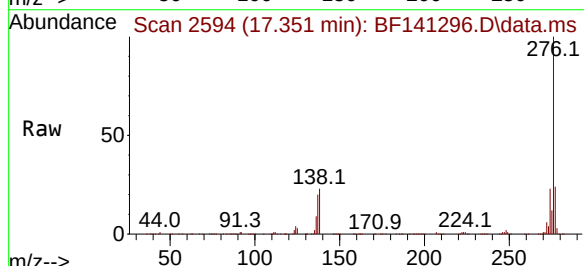
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#92
Benzo(g,h,i)perylene
Concen: 61.510 ng
RT: 17.351 min Scan# 2594
Delta R.T. 0.018 min
Lab File: BF141296.D
Acq: 29 Jan 2025 16:38

Tgt Ion:276 Resp: 881804
Ion Ratio Lower Upper
276 100
277 24.0 19.2 28.8
138 23.4 19.0 28.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141297.D
Acq On : 29 Jan 2025 17:05
Operator : RC/JU
Sample : SSTDICC080
Misc :
ALS Vial : 9 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

Quant Time: Jan 29 17:32:13 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:26:12 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.804	152	129386	20.000	ng	0.00
21) Naphthalene-d8	8.087	136	500219	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	259556	20.000	ng	0.00
64) Phenanthrene-d10	11.328	188	415634	20.000	ng	0.00
76) Chrysene-d12	13.974	240	216592	20.000	ng	0.00
86) Perylene-d12	15.439	264	271797	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	1203835	140.330	ng	0.00
7) Phenol-d6	6.440	99	1526343	139.796	ng	0.00
23) Nitrobenzene-d5	7.369	82	1396346	145.214	ng	0.00
42) 2,4,6-Tribromophenol	10.634	330	337670	139.281	ng	0.00
45) 2-Fluorobiphenyl	9.163	172	2248567	129.739	ng	0.00
79) Terphenyl-d14	12.916	244	1910783	132.741	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	2.493	88	274366	73.111	ng	100
3) Pyridine	3.228	79	684346	76.095	ng	99
4) n-Nitrosodimethylamine	3.199	42	399245	77.974	ng	99
6) Aniline	6.469	93	607667	65.185	ng	# 86
8) 2-Chlorophenol	6.593	128	639957	69.519	ng	97
9) Benzaldehyde	6.351	77	376227	58.226	ng	100
10) Phenol	6.451	94	804078	69.411	ng	90
11) bis(2-Chloroethyl)ether	6.546	93	648287	73.535	ng	98
12) 1,3-Dichlorobenzene	6.746	146	704973	69.446	ng	99
13) 1,4-Dichlorobenzene	6.822	146	706528	69.256	ng	99
14) 1,2-Dichlorobenzene	6.975	146	641551	66.867	ng	99
15) Benzyl Alcohol	6.946	79	532270	71.549	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.081	45	1092827	70.953	ng	98
17) 2-Methylphenol	7.057	107	545097	73.368	ng	97
18) Hexachloroethane	7.316	117	265593	70.765	ng	97
19) n-Nitroso-di-n-propyla...	7.228	70	452303	69.874	ng	97
20) 3+4-Methylphenols	7.216	107	613997	66.467	ng	96
22) Acetophenone	7.216	105	824220	67.811	ng	# 96
24) Nitrobenzene	7.393	77	716200	71.762	ng	99
25) Isophorone	7.628	82	1229697	74.193	ng	99
26) 2-Nitrophenol	7.704	139	358664	76.912	ng	98
27) 2,4-Dimethylphenol	7.740	122	445560	74.779	ng	99
28) bis(2-Chloroethoxy)met...	7.840	93	767960	72.405	ng	99
29) 2,4-Dichlorophenol	7.945	162	525117	71.573	ng	100
30) 1,2,4-Trichlorobenzene	8.028	180	584061	69.437	ng	100
31) Naphthalene	8.110	128	1838789	68.107	ng	99
32) Benzoic acid	7.881	122	484583	91.066	ng	99
33) 4-Chloroaniline	8.157	127	636568	69.737	ng	99
34) Hexachlorobutadiene	8.222	225	348822	70.904	ng	99
35) Caprolactam	8.545	113	177093	74.270	ng	99
36) 4-Chloro-3-methylphenol	8.640	107	566827	72.094	ng	98
37) 2-Methylnaphthalene	8.798	142	1165995	67.926	ng	98
38) 1-Methylnaphthalene	8.898	142	1146275	67.988	ng	100
40) 1,2,4,5-Tetrachloroben...	8.963	216	531237	70.756	ng	100
41) Hexachlorocyclopentadiene	8.951	237	180658	83.336	ng	99
43) 2,4,6-Trichlorophenol	9.075	196	360370	73.727	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
 Data File : BF141297.D
 Acq On : 29 Jan 2025 17:05
 Operator : RC/JU
 Sample : SSTDICC080
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDICC080

Quant Time: Jan 29 17:32:13 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 29 17:26:12 2025
 Response via : Initial Calibration

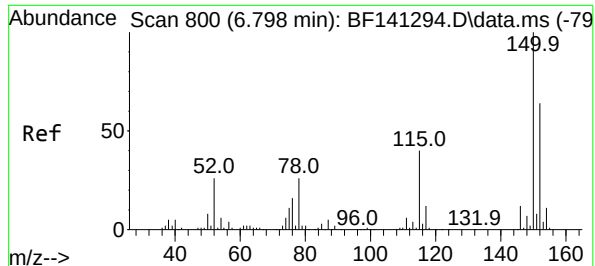
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	397887	74.958	ng	99
46) 1,1'-Biphenyl	9.263	154	1412015	68.298	ng	99
47) 2-Chloronaphthalene	9.287	162	1118593	69.578	ng	99
48) 2-Nitroaniline	9.381	65	378379	75.652	ng	97
49) Acenaphthylene	9.704	152	1552508	68.901	ng	99
50) Dimethylphthalate	9.569	163	1269770	71.308	ng	100
51) 2,6-Dinitrotoluene	9.628	165	300867	72.992	ng	99
52) Acenaphthene	9.875	154	1120345	69.700	ng	99
53) 3-Nitroaniline	9.798	138	274410	67.215	ng	99
54) 2,4-Dinitrophenol	9.904	184	169946	101.582	ng	99
55) Dibenzofuran	10.045	168	1451668	67.158	ng	98
56) 4-Nitrophenol	9.957	139	230369	78.788	ng	100
57) 2,4-Dinitrotoluene	10.034	165	375659	70.012	ng	93
58) Fluorene	10.392	166	1099129	65.335	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.163	232	302300	72.005	ng	98
60) Diethylphthalate	10.269	149	1189833	68.571	ng	99
61) 4-Chlorophenyl-phenyle...	10.381	204	541468	65.968	ng	99
62) 4-Nitroaniline	10.416	138	292019	73.604	ng	99
63) Azobenzene	10.545	77	1206328	69.582	ng	99
65) 4,6-Dinitro-2-methylph...	10.439	198	217265	89.943	ng	96
66) n-Nitrosodiphenylamine	10.504	169	986121	72.353	ng	100
67) 4-Bromophenyl-phenylether	10.875	248	348615	74.136	ng	97
68) Hexachlorobenzene	10.939	284	361469	72.215	ng	97
69) Atrazine	11.033	200	372792	83.452	ng	99
70) Pentachlorophenol	11.133	266	235030	81.539	ng	99
71) Phenanthrene	11.351	178	1557660	68.257	ng	99
72) Anthracene	11.404	178	1535860	68.749	ng	99
73) Carbazole	11.557	167	1342447	67.630	ng	99
74) Di-n-butylphthalate	11.892	149	1626342	67.604	ng	99
75) Fluoranthene	12.539	202	1463196	64.490	ng	99
77) Benzidine	12.663	184	481470	67.834	ng	99
78) Pyrene	12.769	202	1450076	68.287	ng	100
80) Butylbenzylphthalate	13.392	149	528754	71.721	ng	99
81) Benzo(a)anthracene	13.963	228	1095972	72.323	ng	99
82) 3,3'-Dichlorobenzidine	13.927	252	389044	82.157	ng	99
83) Chrysene	13.998	228	1048083	75.964	ng	100
84) Bis(2-ethylhexyl)phtha...	13.957	149	662151	70.666	ng	99
85) Di-n-octyl phthalate	14.586	149	1171131	82.148	ng	99
87) Indeno(1,2,3-cd)pyrene	16.898	276	1399119	79.715	ng	100
88) Benzo(b)fluoranthene	15.021	252	1235245	71.102	ng	100
89) Benzo(k)fluoranthene	15.051	252	1146296	75.010	ng	100
90) Benzo(a)pyrene	15.380	252	1098491	75.410	ng	99
91) Dibenzo(a,h)anthracene	16.921	278	1117397	79.035	ng	99
92) Benzo(g,h,i)perylene	17.345	276	1155250	78.512	ng	100

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

Instrument :
BNA_F
ClientSampleId :
SSTDICC080

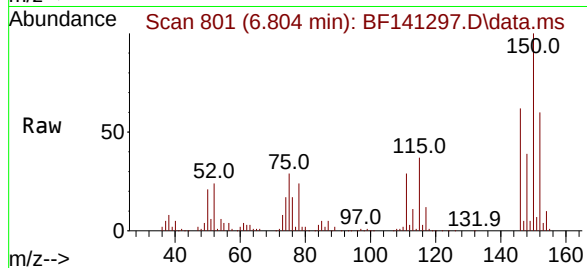
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17



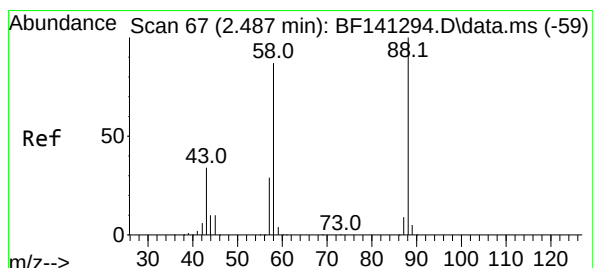
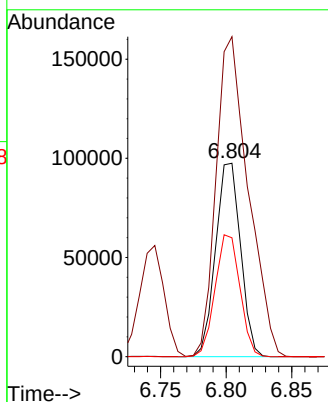
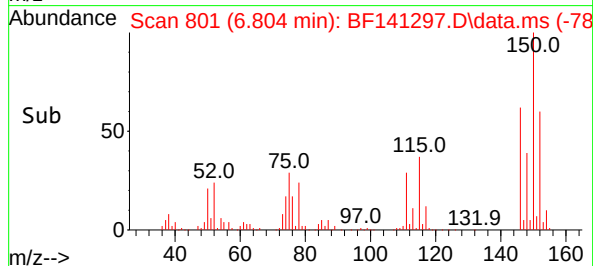


#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.804 min Scan# 80
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

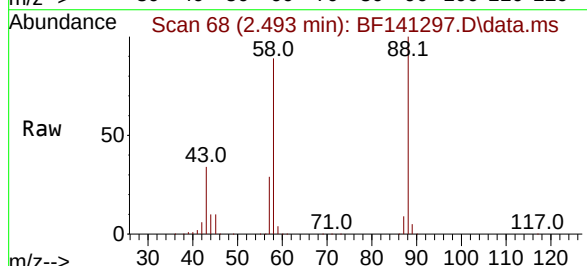
Instrument :
BNA_F
ClientSampleId :
SSTDICC080



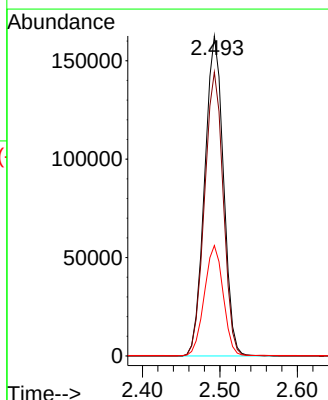
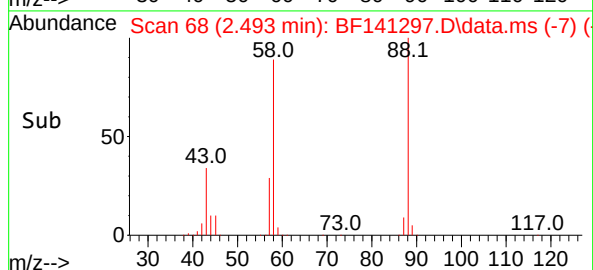
Tgt Ion:152 Resp: 129386
Ion Ratio Lower Upper
152 100
150 165.5 125.9 188.9
115 61.4 49.7 74.5

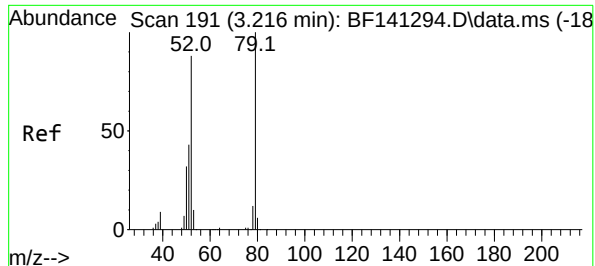


#2
1,4-Dioxane
Concen: 73.111 ng
RT: 2.493 min Scan# 68
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05



Tgt Ion: 88 Resp: 274366
Ion Ratio Lower Upper
88 100
58 88.2 70.2 105.4
43 34.3 27.6 41.4

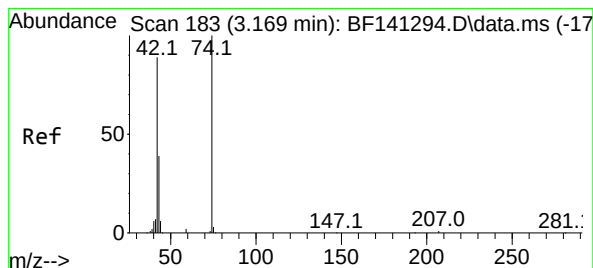
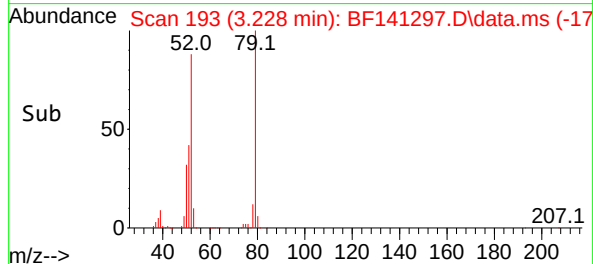
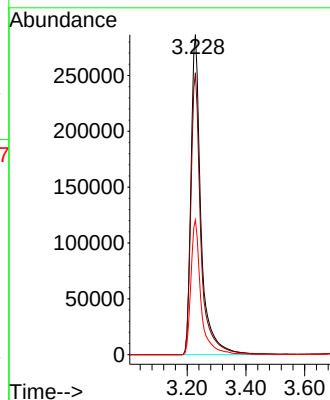
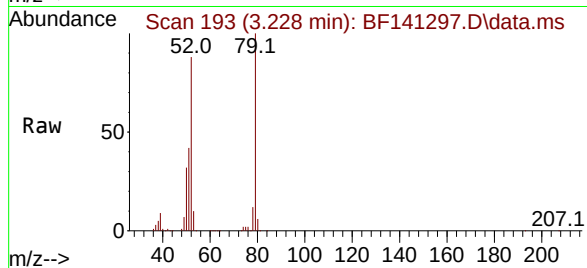




#3
Pyridine
Concen: 76.095 ng
RT: 3.228 min Scan# 191
Delta R.T. 0.012 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

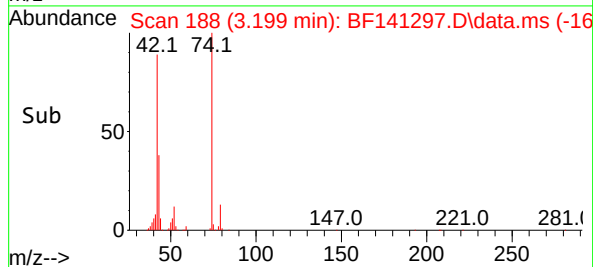
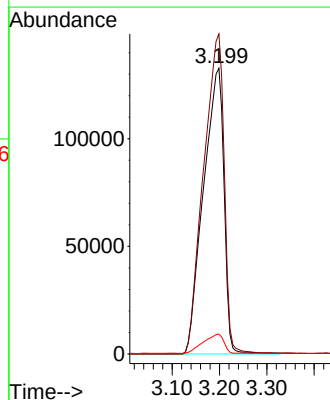
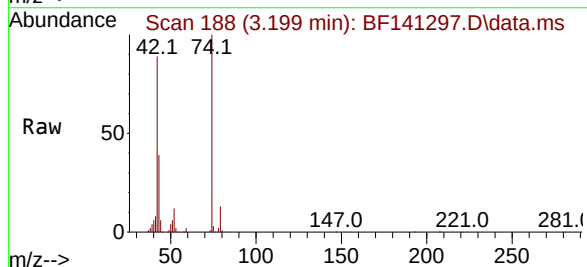
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

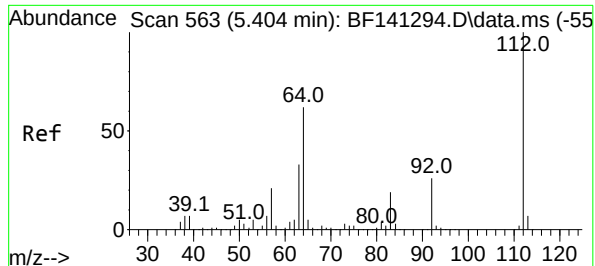
Tgt Ion: 79 Resp: 684346
Ion Ratio Lower Upper
79 100
52 88.1 70.3 105.5
51 42.1 34.3 51.5



#4
n-Nitrosodimethylamine
Concen: 77.974 ng
RT: 3.199 min Scan# 188
Delta R.T. 0.018 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 42 Resp: 399245
Ion Ratio Lower Upper
42 100
74 112.0 90.3 135.5
44 6.9 5.7 8.5

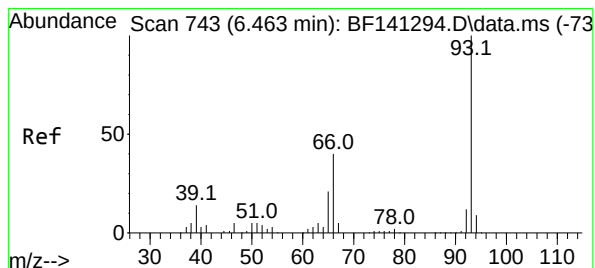
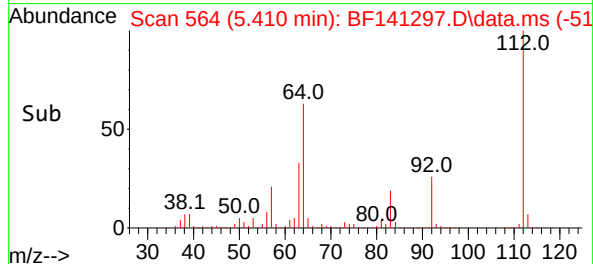
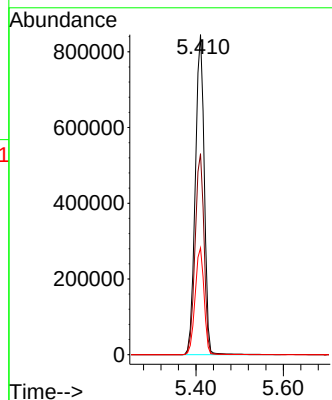
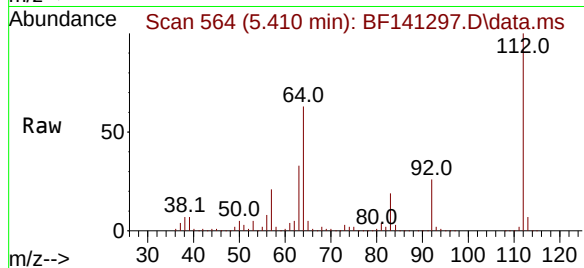




#5
2-Fluorophenol
Concen: 140.330 ng
RT: 5.410 min Scan# 50
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

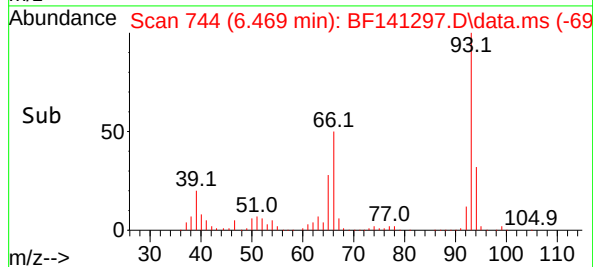
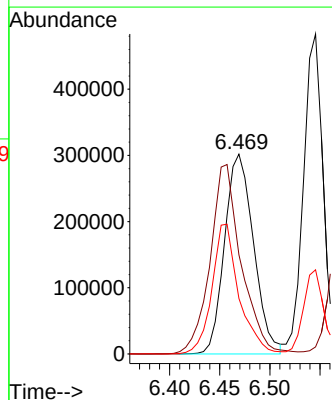
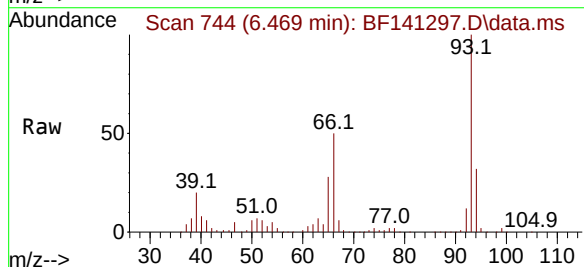
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

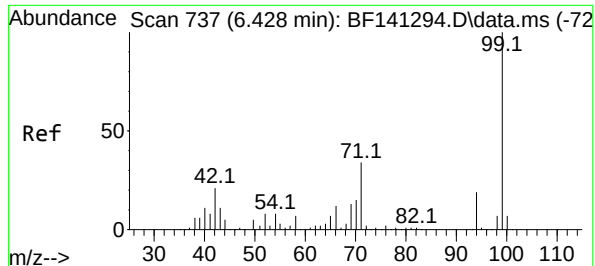
Tgt Ion:112 Resp: 1203835
Ion Ratio Lower Upper
112 100
64 62.8 49.8 74.8
63 33.4 26.1 39.1



#6
Aniline
Concen: 65.185 ng
RT: 6.469 min Scan# 744
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 93 Resp: 607667
Ion Ratio Lower Upper
93 100
66 49.7 32.5 48.7#
65 27.8 17.0 25.6#





#7

Phenol-d6

Concen: 139.796 ng

RT: 6.440 min Scan# 71

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

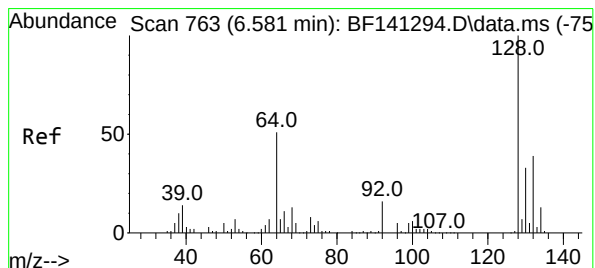
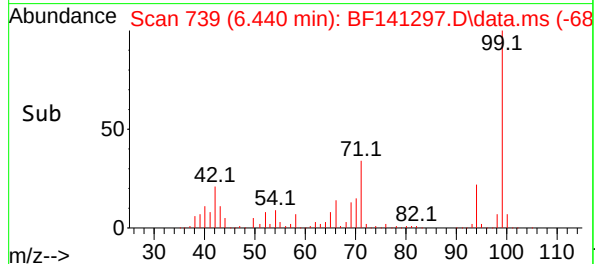
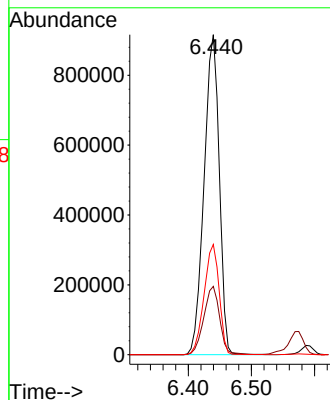
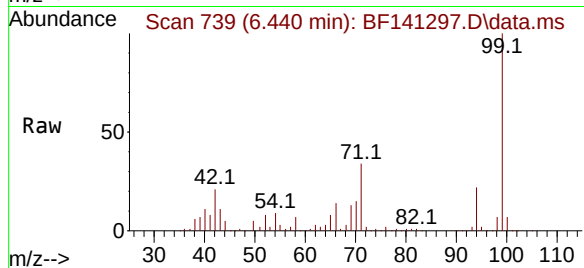
BNA_F

ClientSampleId :

SSTDICC080

Tgt Ion: 99 Resp: 1526343

Ion	Ratio	Lower	Upper
99	100		
42	21.4	17.1	25.7
71	34.4	26.9	40.3



#8

2-Chlorophenol

Concen: 69.519 ng

RT: 6.593 min Scan# 765

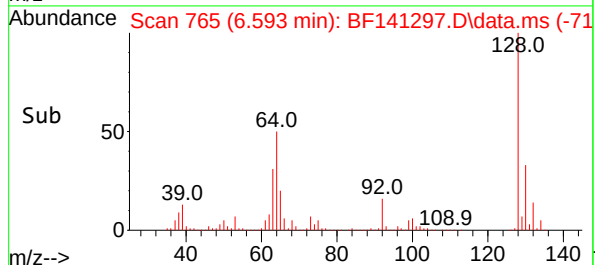
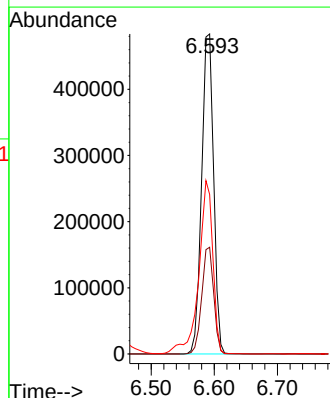
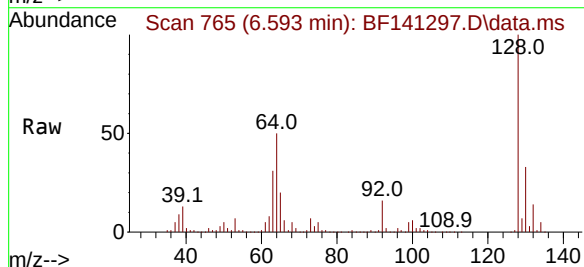
Delta R.T. 0.006 min

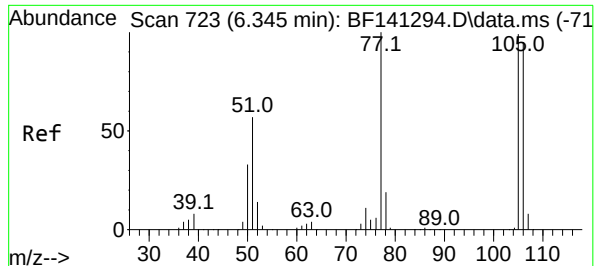
Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Tgt Ion:128 Resp: 639957

Ion	Ratio	Lower	Upper
128	100		
130	33.4	12.5	52.5
64	49.8	32.9	72.9





#9

Benzaldehyde

Concen: 58.226 ng

RT: 6.351 min Scan# 71

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

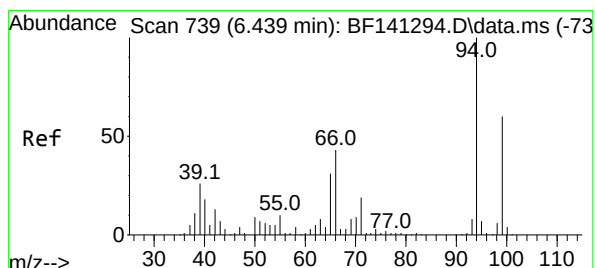
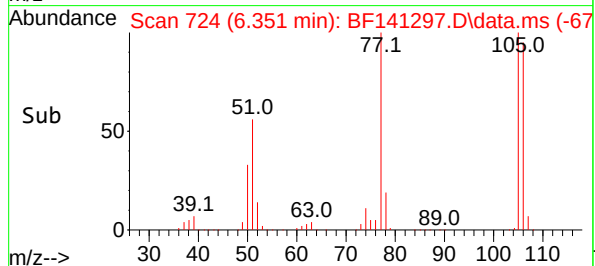
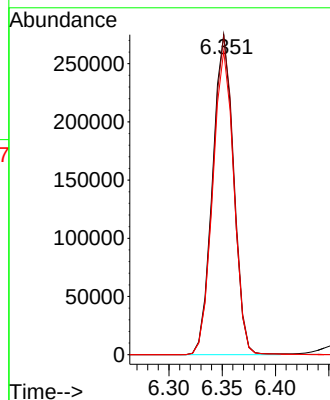
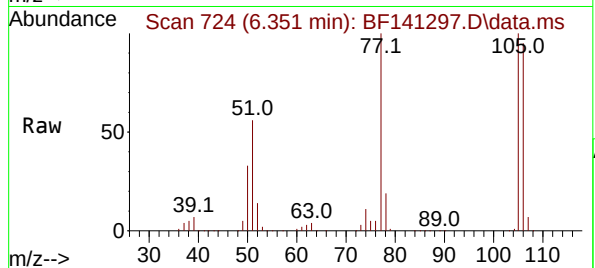
Tgt Ion: 77 Resp: 376227

Ion Ratio Lower Upper

77 100

105 99.7 79.4 119.4

106 94.9 74.6 114.6



#10

Phenol

Concen: 69.411 ng

RT: 6.451 min Scan# 741

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

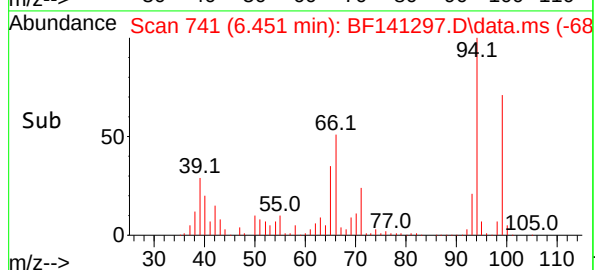
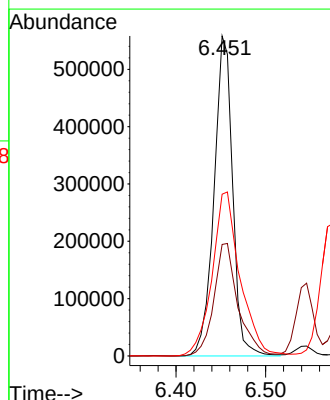
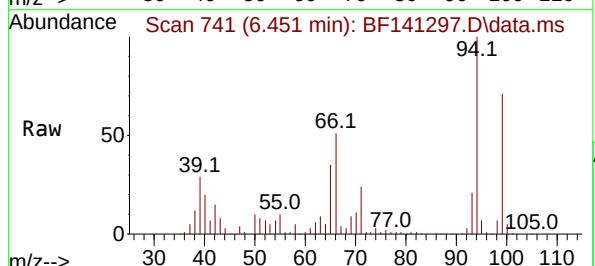
Tgt Ion: 94 Resp: 804078

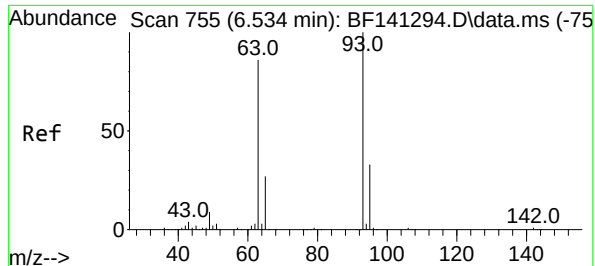
Ion Ratio Lower Upper

94 100

65 34.9 10.8 50.8

66 50.6 23.3 63.3

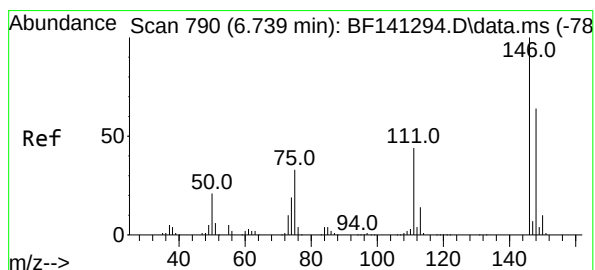
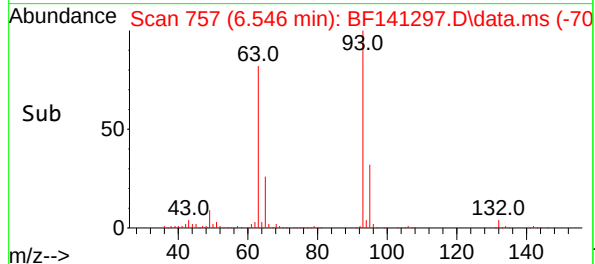
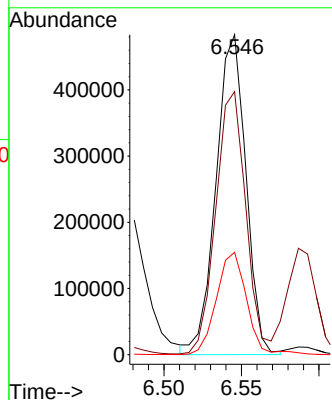
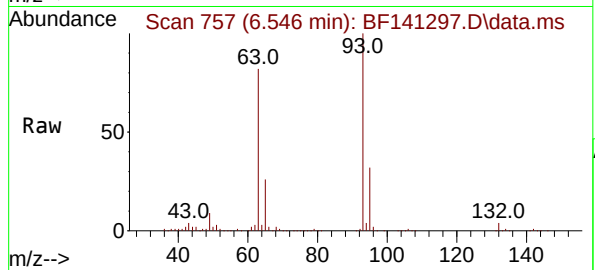




#11
bis(2-Chloroethyl)ether
Concen: 73.535 ng
RT: 6.546 min Scan# 711
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

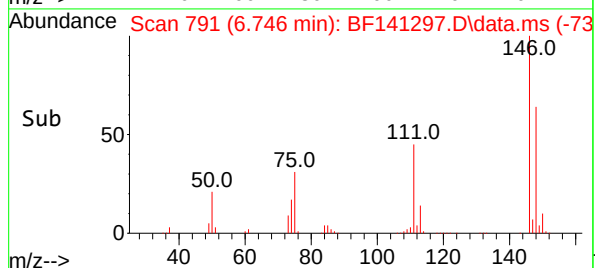
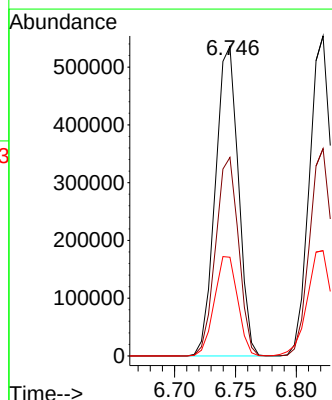
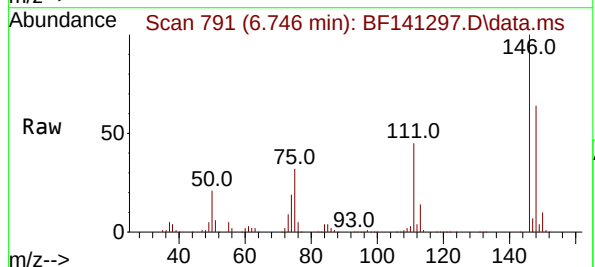
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

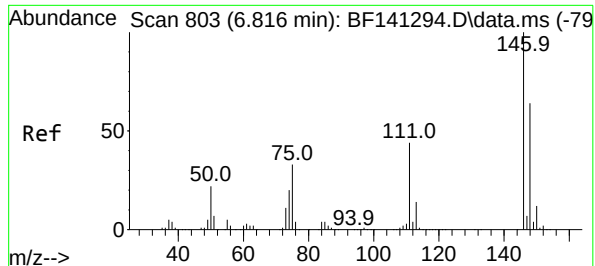
Tgt Ion: 93 Resp: 648287
Ion Ratio Lower Upper
93 100
63 82.2 65.0 105.0
95 32.0 12.4 52.4



#12
1,3-Dichlorobenzene
Concen: 69.446 ng
RT: 6.746 min Scan# 791
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 146 Resp: 704973
Ion Ratio Lower Upper
146 100
148 64.2 51.2 76.8
75 31.9 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 69.256 ng

RT: 6.822 min Scan# 80

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

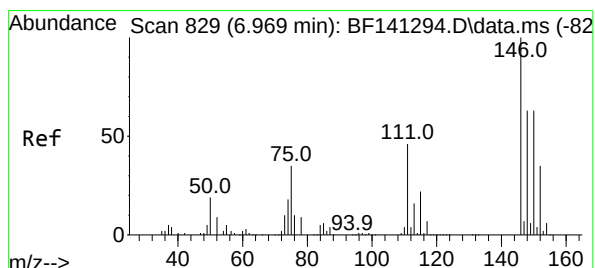
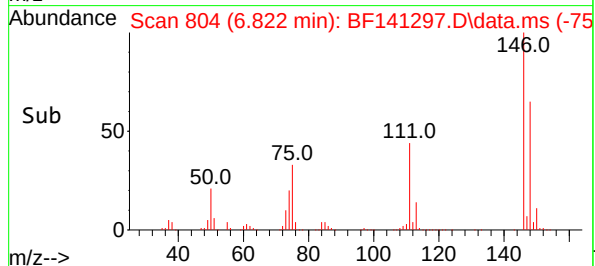
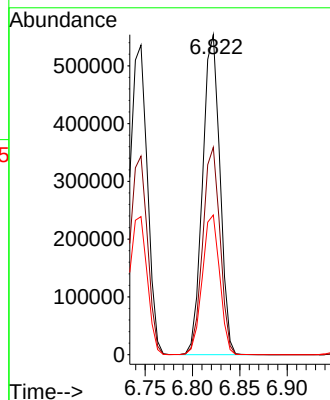
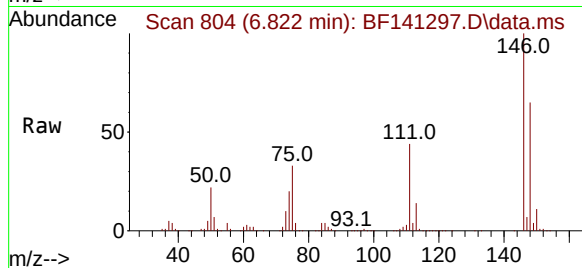
Tgt Ion:146 Resp: 706528

Ion Ratio Lower Upper

146 100

148 64.8 51.2 76.8

111 43.6 35.0 52.4



#14

1,2-Dichlorobenzene

Concen: 66.867 ng

RT: 6.975 min Scan# 830

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

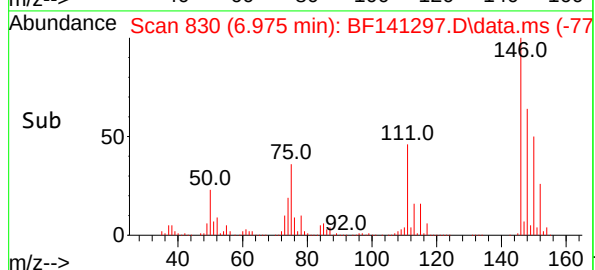
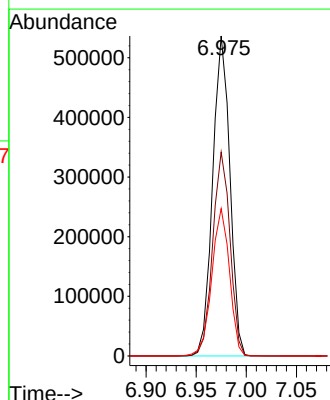
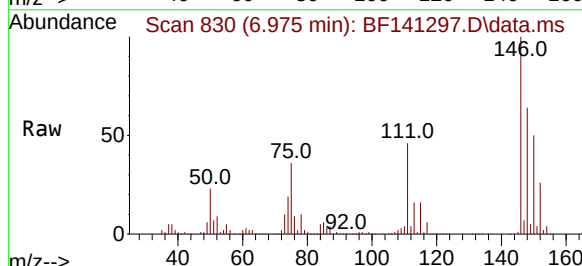
Tgt Ion:146 Resp: 641551

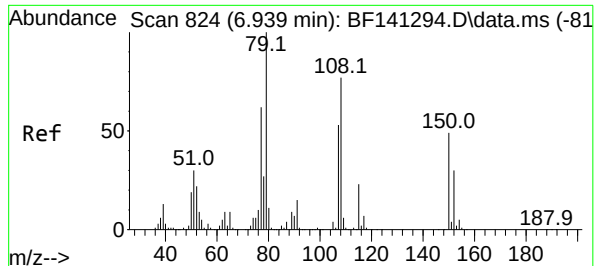
Ion Ratio Lower Upper

146 100

148 63.7 50.5 75.7

111 46.1 36.6 55.0





#15

Benzyl Alcohol

Concen: 71.549 ng

RT: 6.946 min Scan# 81

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

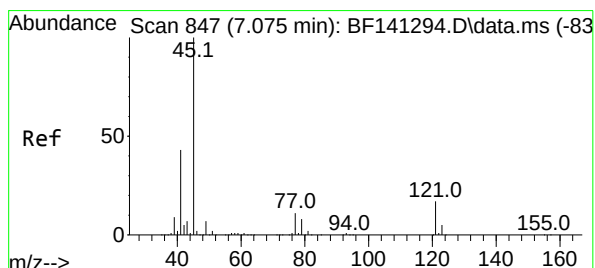
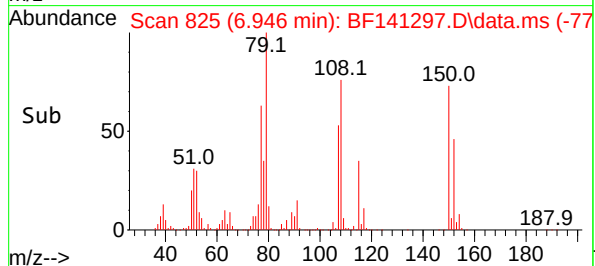
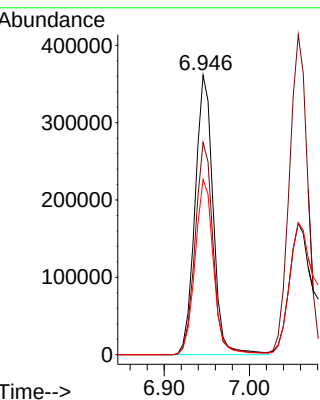
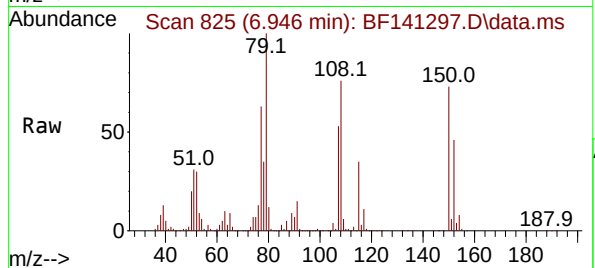
Tgt Ion: 79 Resp: 532270

Ion Ratio Lower Upper

79 100

108 75.9 61.4 92.0

77 62.7 49.9 74.9



#16

2,2'-oxybis(1-Chloropropane)

Concen: 70.953 ng

RT: 7.081 min Scan# 848

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

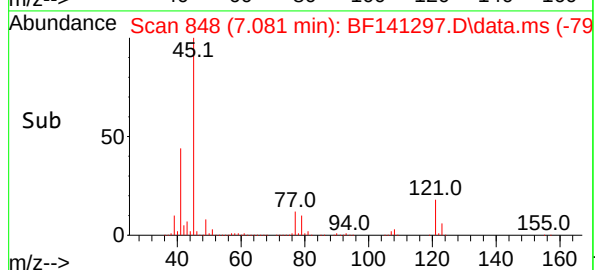
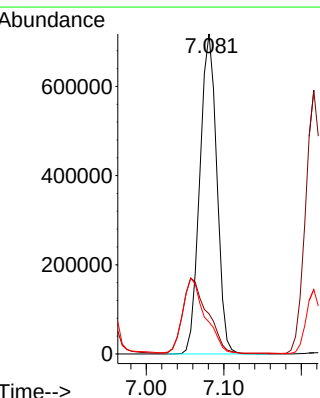
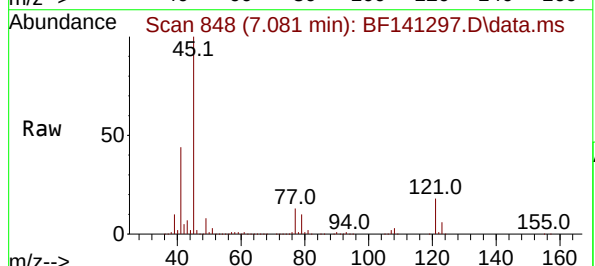
Tgt Ion: 45 Resp: 1092827

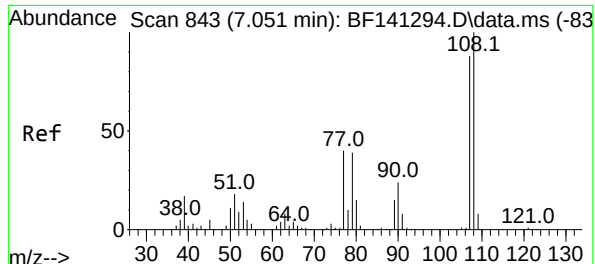
Ion Ratio Lower Upper

45 100

77 12.6 0.0 31.8

79 10.0 0.0 29.1

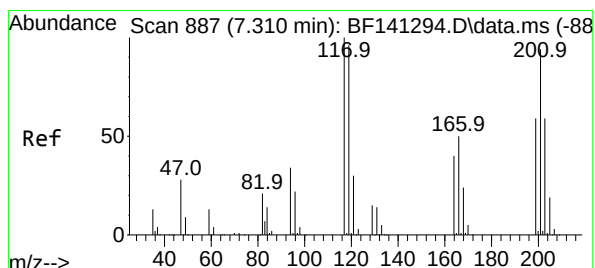
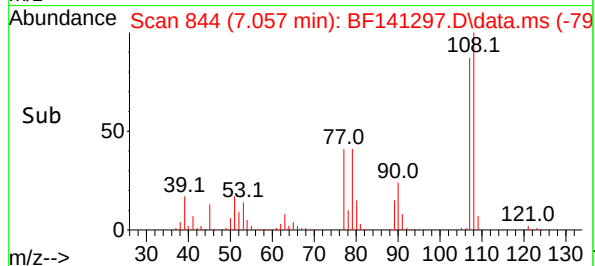
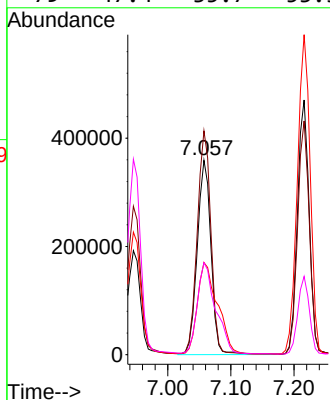
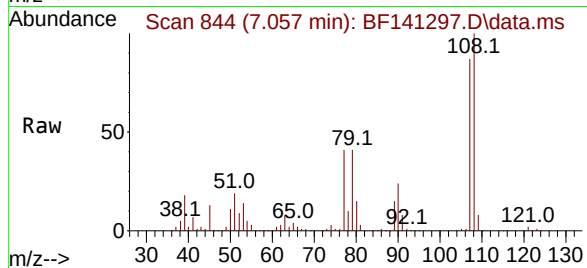




#17
2-Methylphenol
Concen: 73.368 ng
RT: 7.057 min Scan# 843
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

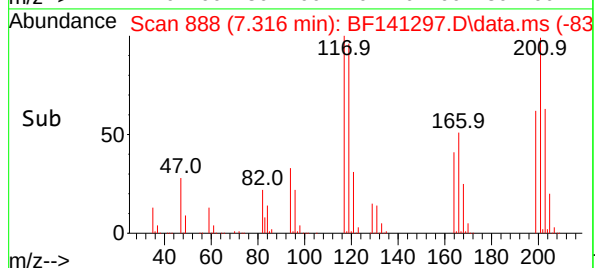
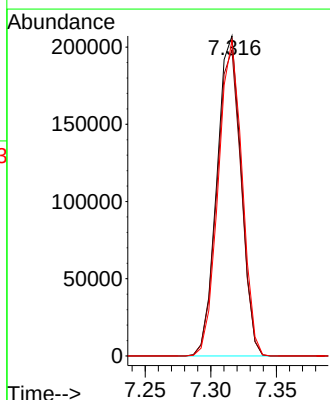
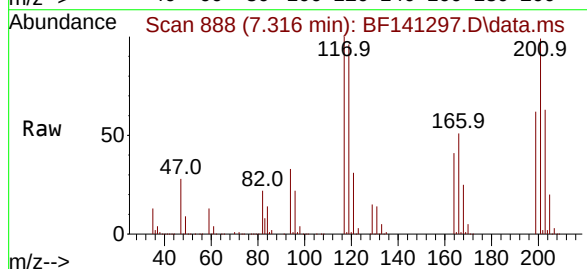
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

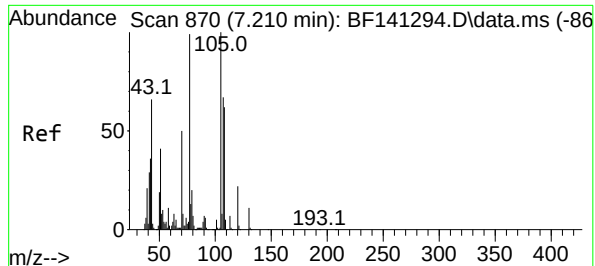
Tgt Ion:107 Resp: 545097
Ion Ratio Lower Upper
107 100
108 115.2 90.8 136.2
77 47.5 36.2 54.4
79 47.4 35.7 53.5



#18
Hexachloroethane
Concen: 70.765 ng
RT: 7.316 min Scan# 888
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:117 Resp: 265593
Ion Ratio Lower Upper
117 100
119 95.7 76.6 114.8
201 98.6 74.8 112.2





#19

n-Nitroso-di-n-propylamine

Concen: 69.874 ng

RT: 7.228 min Scan# 81

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

Tgt Ion: 70 Resp: 452303

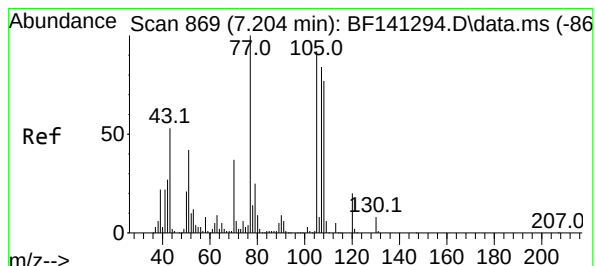
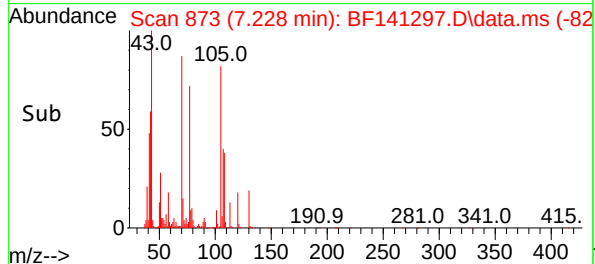
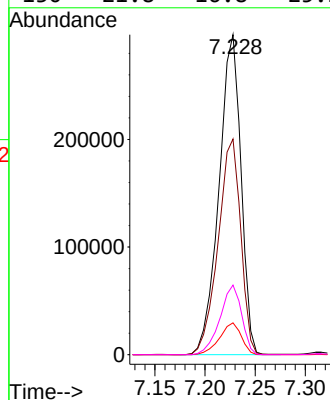
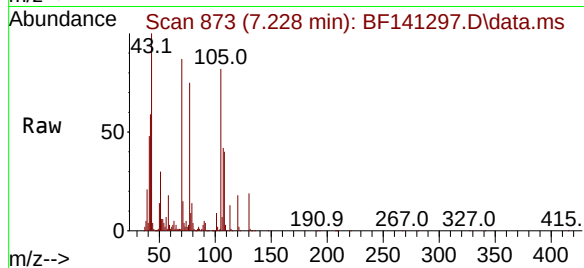
Ion Ratio Lower Upper

70 100

42 67.4 56.8 85.2

101 9.9 7.7 11.5

130 21.8 16.8 25.2



#20

3+4-Methylphenols

Concen: 66.467 ng

RT: 7.216 min Scan# 871

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Tgt Ion: 107 Resp: 613997

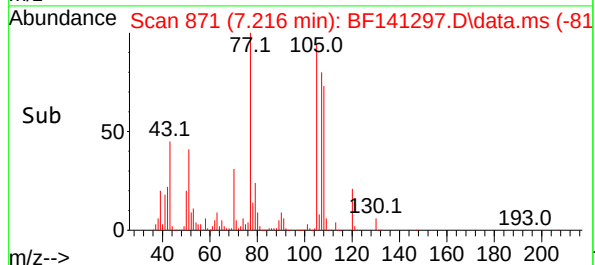
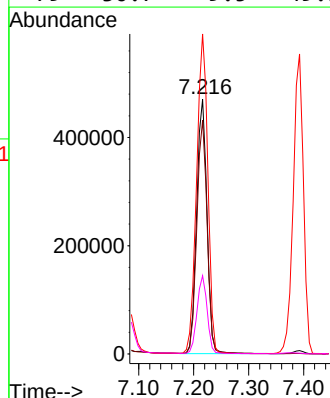
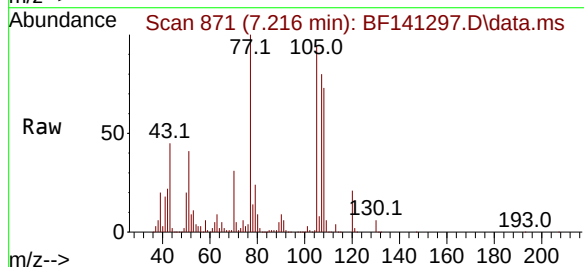
Ion Ratio Lower Upper

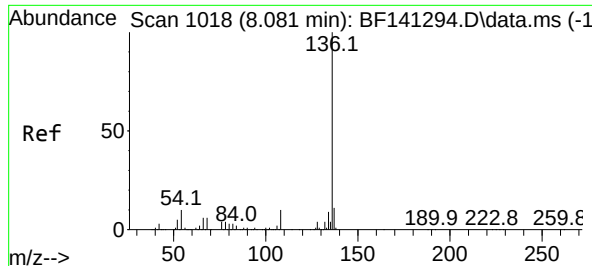
107 100

108 91.8 70.9 110.9

77 125.6 98.5 138.5

79 30.7 9.5 49.5





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.087 min Scan# 1018

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

Tgt Ion:136 Resp: 500219

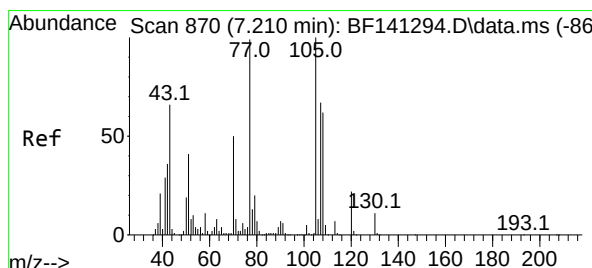
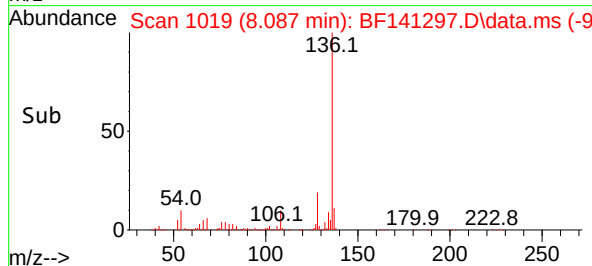
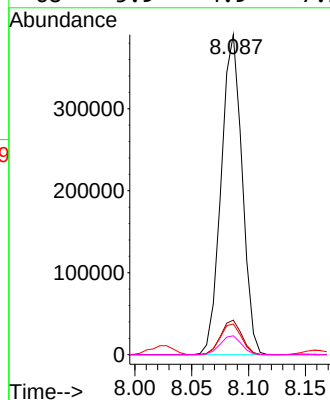
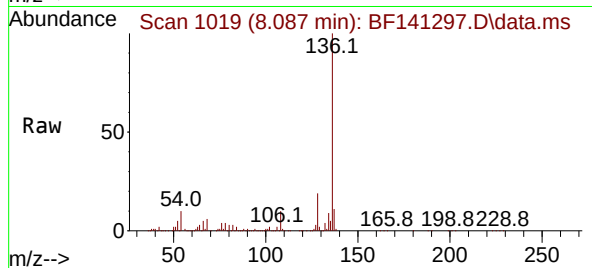
Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

54 9.6 7.8 11.8

68 5.9 4.9 7.3



#22

Acetophenone

Concen: 67.811 ng

RT: 7.216 min Scan# 871

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Tgt Ion:105 Resp: 824220

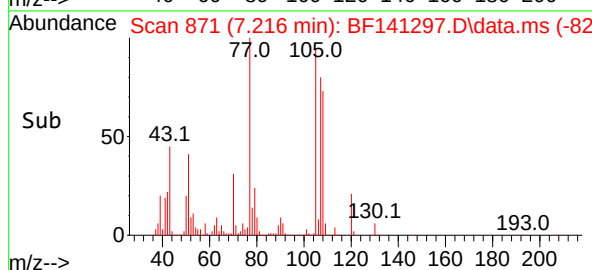
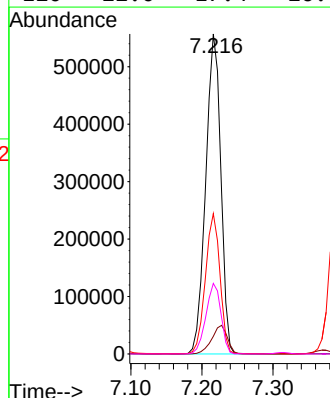
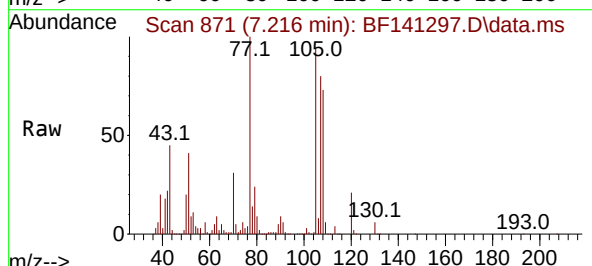
Ion Ratio Lower Upper

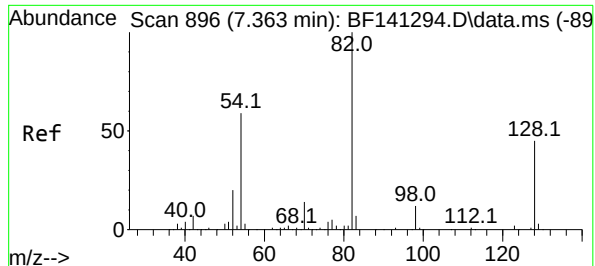
105 100

71 5.5 6.8 10.2#

51 43.9 32.6 49.0

120 22.0 17.4 26.0





#23

Nitrobenzene-d5

Concen: 145.214 ng

RT: 7.369 min Scan# 89

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

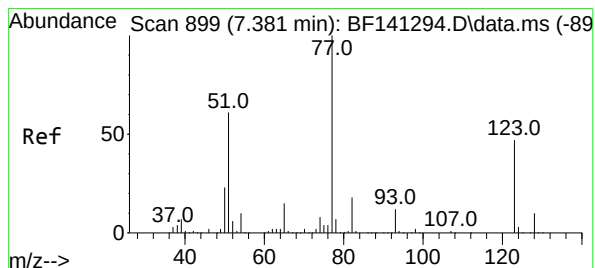
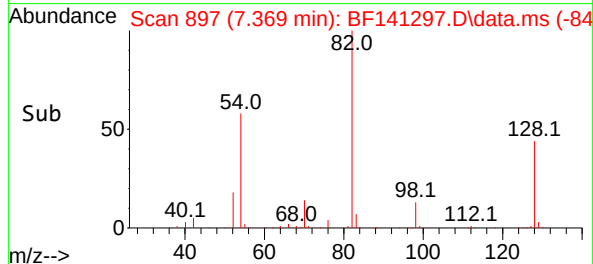
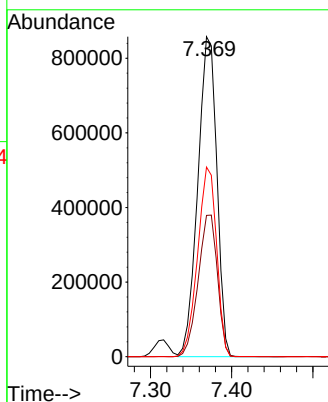
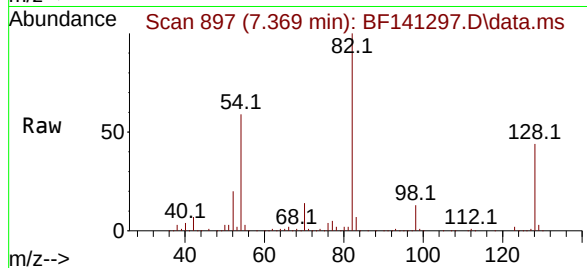
BNA_F

ClientSampleId :

SSTDICC080

Tgt Ion: 82 Resp: 1396346

Ion	Ratio	Lower	Upper
82	100		
128	44.2	35.7	53.5
54	59.3	47.1	70.7



#24

Nitrobenzene

Concen: 71.762 ng

RT: 7.393 min Scan# 901

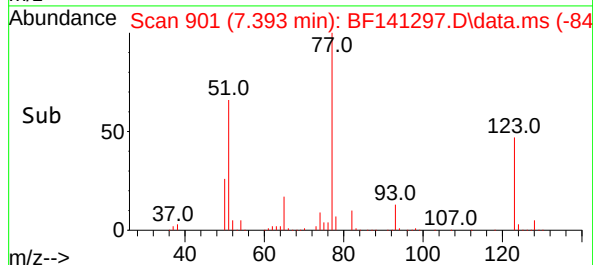
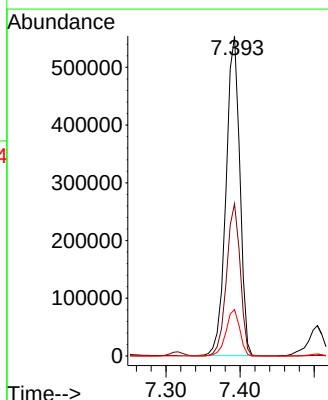
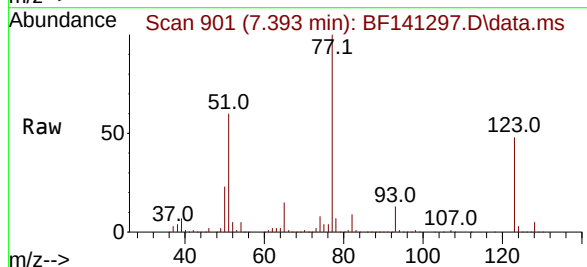
Delta R.T. 0.006 min

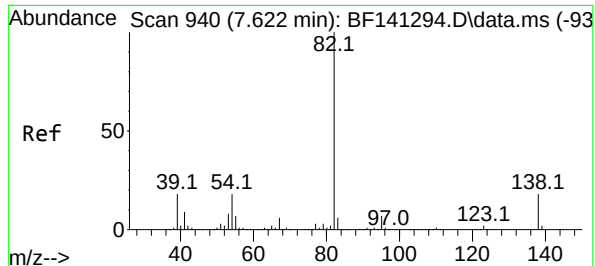
Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Tgt Ion: 77 Resp: 716200

Ion	Ratio	Lower	Upper
77	100		
123	47.6	37.3	55.9
65	14.5	11.8	17.6





#25

Isophorone

Concen: 74.193 ng

RT: 7.628 min Scan# 941

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

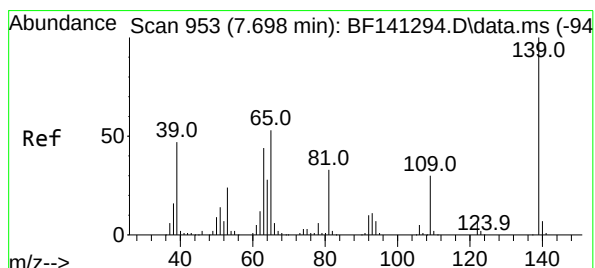
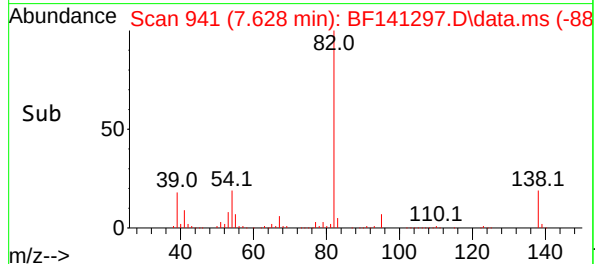
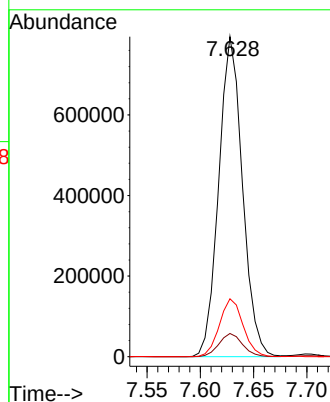
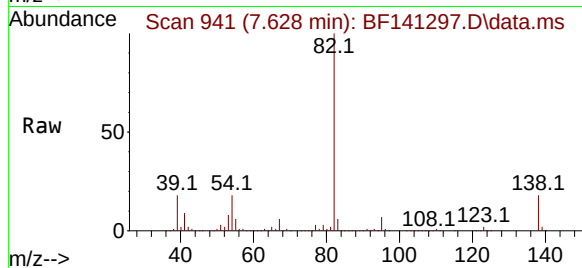
BNA_F

ClientSampleId :

SSTDICC080

Tgt Ion: 82 Resp: 1229697

Ion	Ratio	Lower	Upper
82	100		
95	7.3	5.8	8.6
138	18.1	14.7	22.1



#26

2-Nitrophenol

Concen: 76.912 ng

RT: 7.704 min Scan# 954

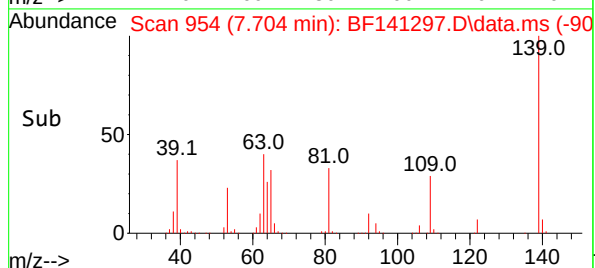
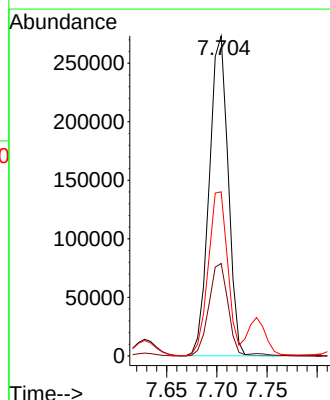
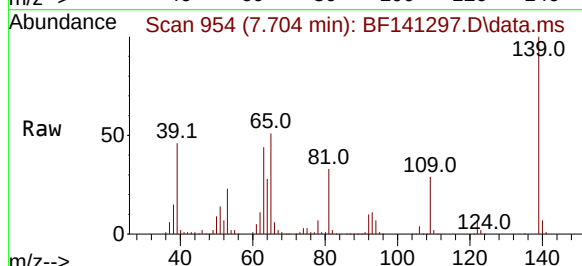
Delta R.T. 0.006 min

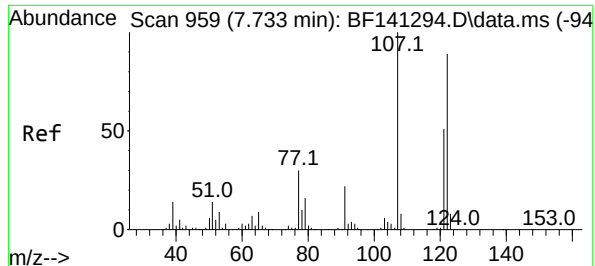
Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Tgt Ion: 139 Resp: 358664

Ion	Ratio	Lower	Upper
139	100		
109	28.9	23.8	35.6
65	51.3	42.2	63.4





#27

2,4-Dimethylphenol

Concen: 74.779 ng

RT: 7.740 min Scan# 9

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

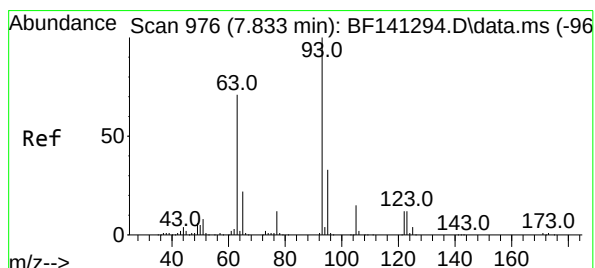
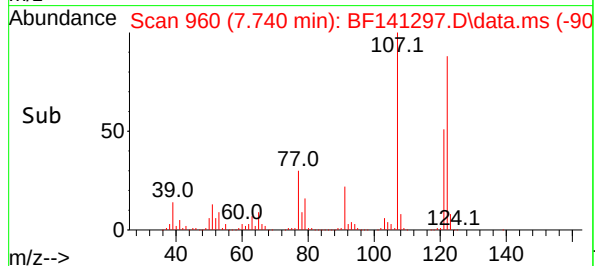
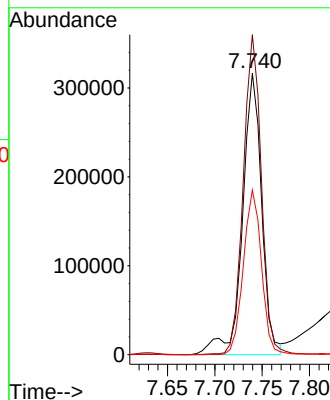
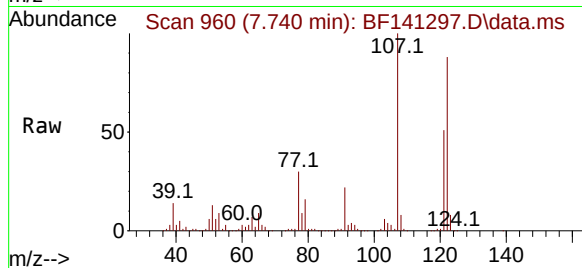
Tgt Ion:122 Resp: 445560

Ion Ratio Lower Upper

122 100

107 113.7 89.9 134.9

121 58.5 46.1 69.1



#28

bis(2-Chloroethoxy)methane

Concen: 72.405 ng

RT: 7.840 min Scan# 977

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

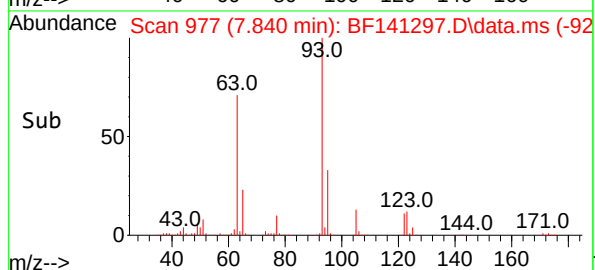
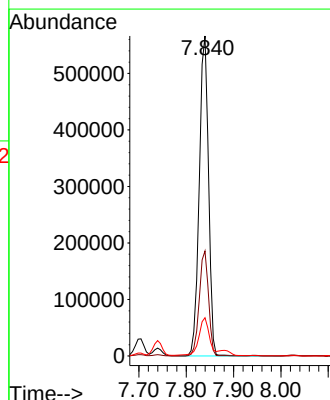
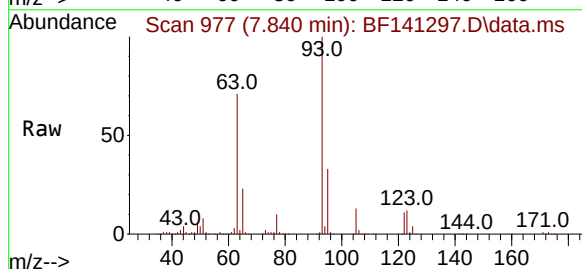
Tgt Ion: 93 Resp: 767960

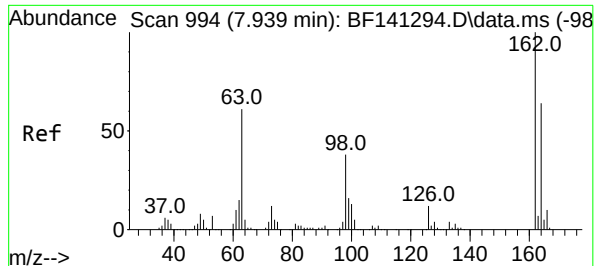
Ion Ratio Lower Upper

93 100

95 32.8 26.2 39.2

123 12.0 10.2 15.4





#29

2,4-Dichlorophenol

Concen: 71.573 ng

RT: 7.945 min Scan# 994

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

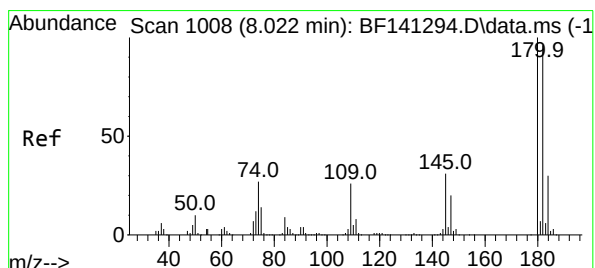
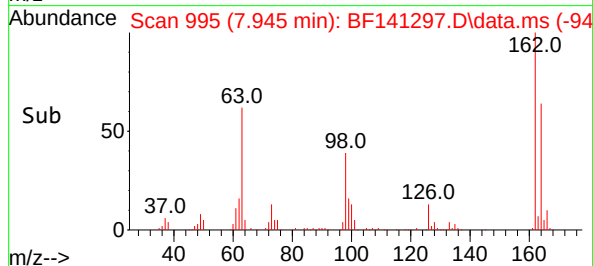
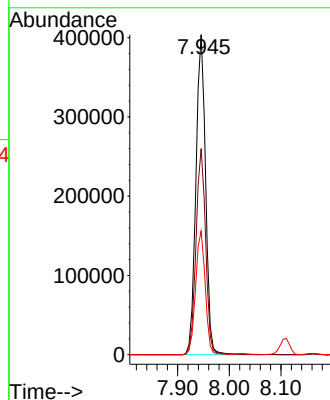
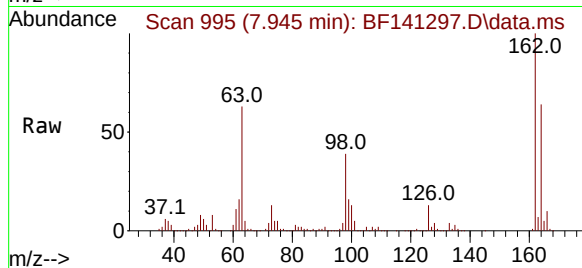
Tgt Ion:162 Resp: 525117

Ion Ratio Lower Upper

162 100

164 64.4 44.2 84.2

98 38.6 18.2 58.2



#30

1,2,4-Trichlorobenzene

Concen: 69.437 ng

RT: 8.028 min Scan# 1009

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

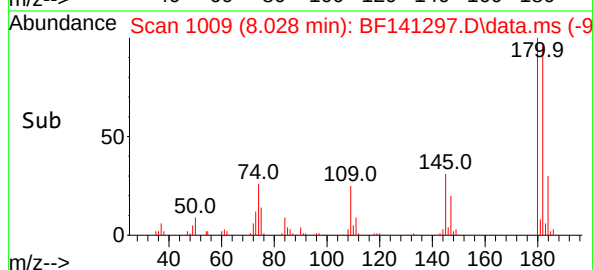
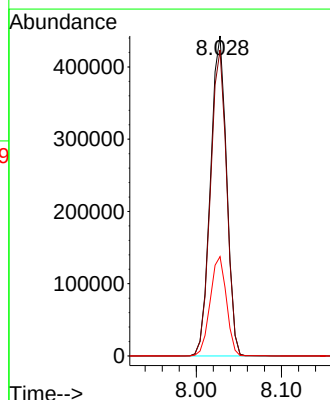
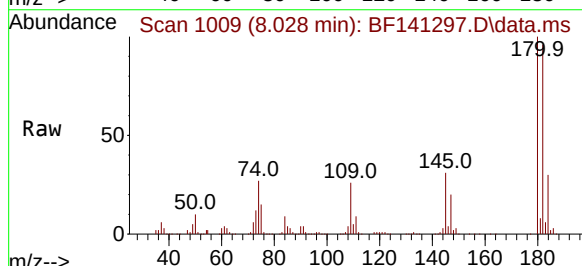
Tgt Ion:180 Resp: 584061

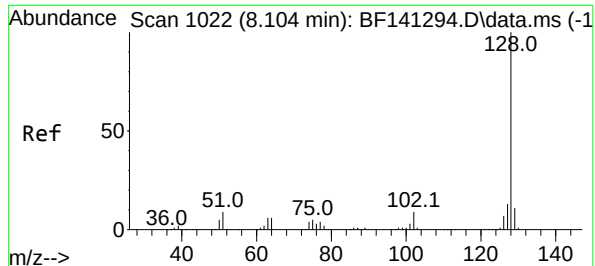
Ion Ratio Lower Upper

180 100

182 95.6 76.4 114.6

145 31.0 24.9 37.3

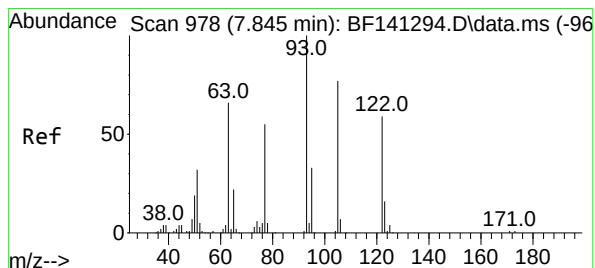
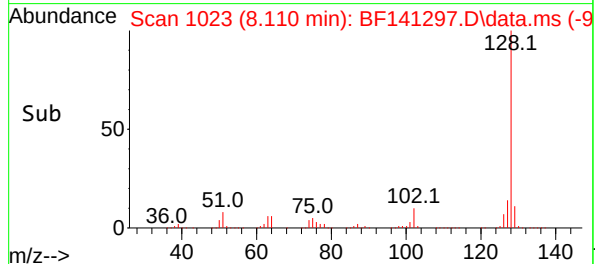
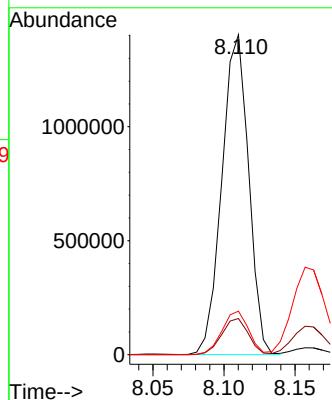
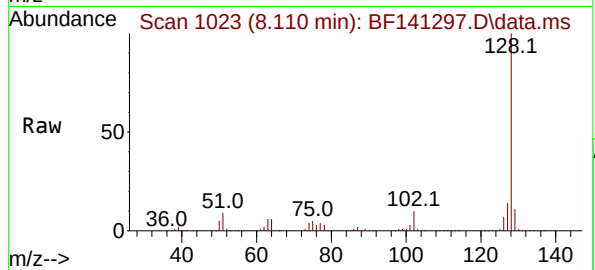




#31
Naphthalene
Concen: 68.107 ng
RT: 8.110 min Scan# 1022
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

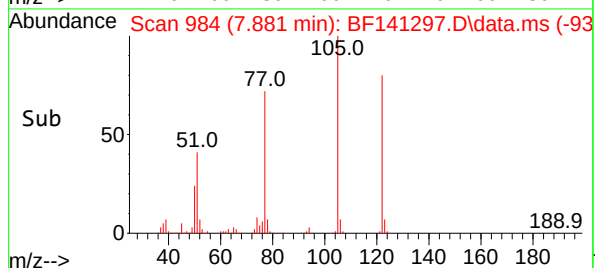
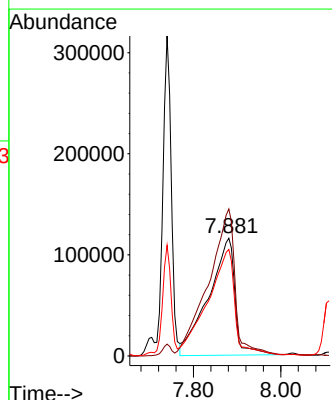
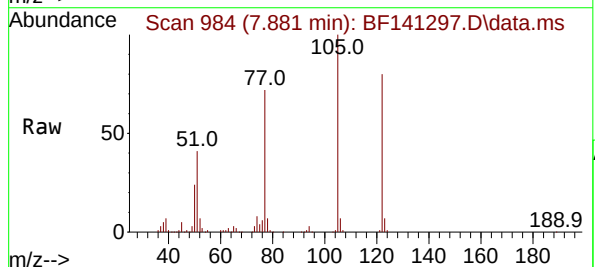
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

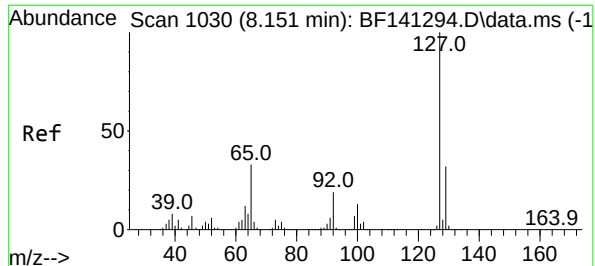
Tgt Ion:128 Resp: 1838789
Ion Ratio Lower Upper
128 100
129 11.3 8.9 13.3
127 13.6 10.6 15.8



#32
Benzoic acid
Concen: 91.066 ng
RT: 7.881 min Scan# 984
Delta R.T. 0.018 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:122 Resp: 484583
Ion Ratio Lower Upper
122 100
105 124.8 103.4 143.4
77 90.5 70.9 110.9





#33

4-Chloroaniline

Concen: 69.737 ng

RT: 8.157 min Scan# 1

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

Tgt Ion:127 Resp: 636568

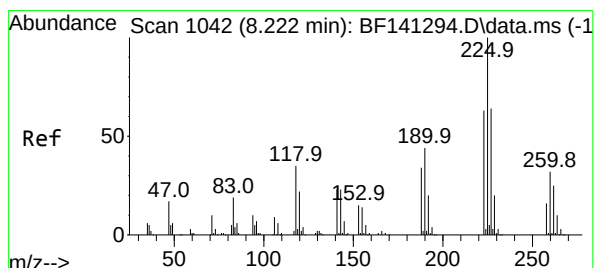
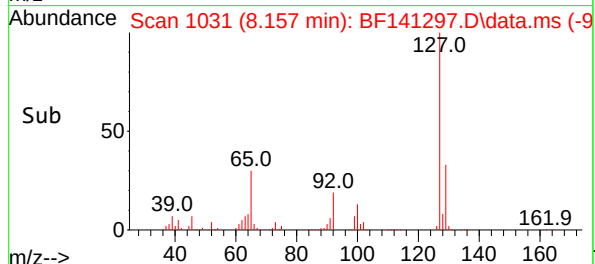
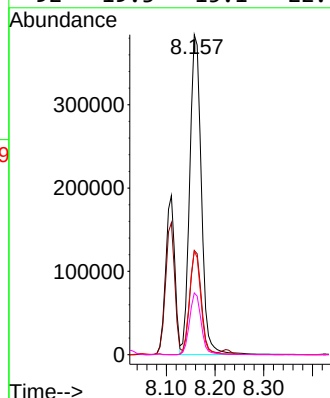
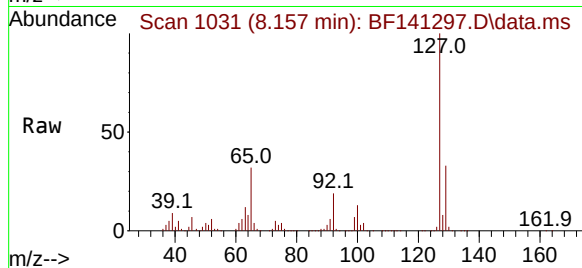
Ion Ratio Lower Upper

127 100

129 32.6 25.7 38.5

65 32.4 26.4 39.6

92 19.3 15.1 22.7



#34

Hexachlorobutadiene

Concen: 70.904 ng

RT: 8.222 min Scan# 1042

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

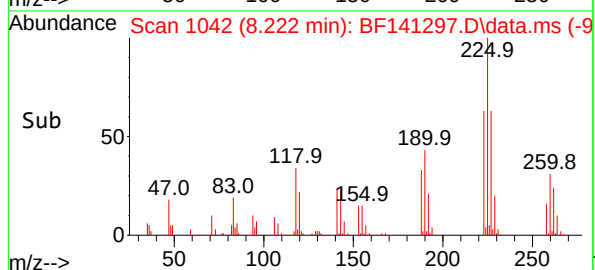
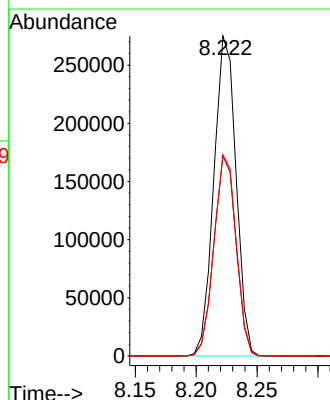
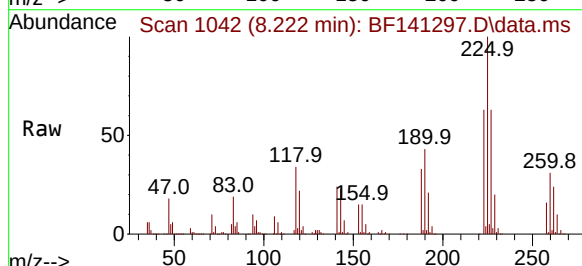
Tgt Ion:225 Resp: 348822

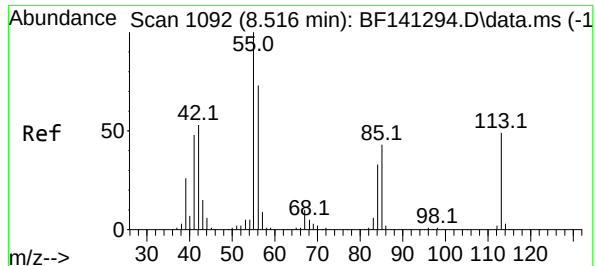
Ion Ratio Lower Upper

225 100

223 62.5 50.4 75.6

227 62.9 51.3 76.9





#35

Caprolactam

Concen: 74.270 ng

RT: 8.545 min Scan# 1109

Delta R.T. 0.012 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

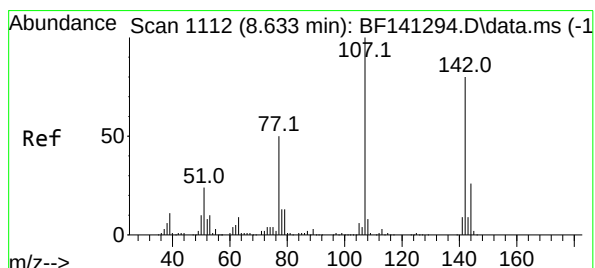
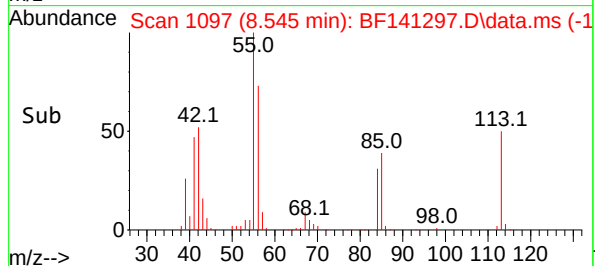
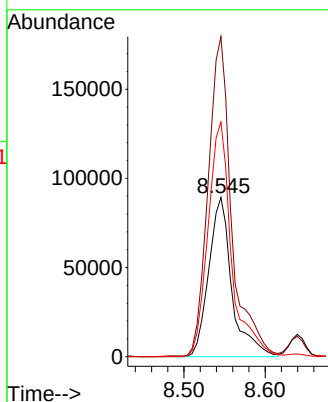
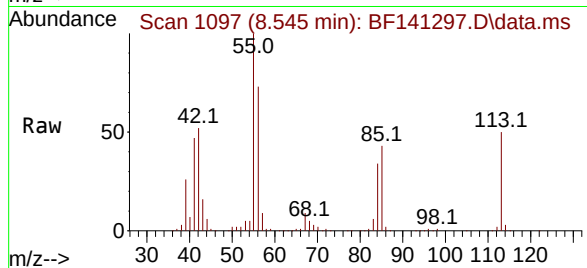
Tgt Ion:113 Resp: 177093

Ion Ratio Lower Upper

113 100

55 201.0 182.9 222.9

56 147.3 127.9 167.9



#36

4-Chloro-3-methylphenol

Concen: 72.094 ng

RT: 8.640 min Scan# 1113

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

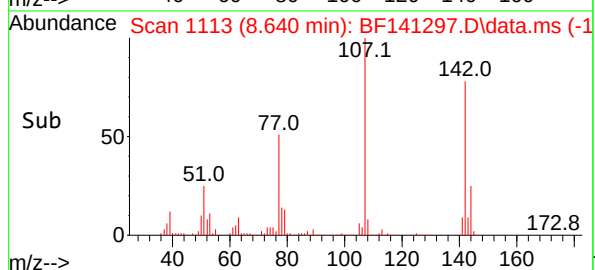
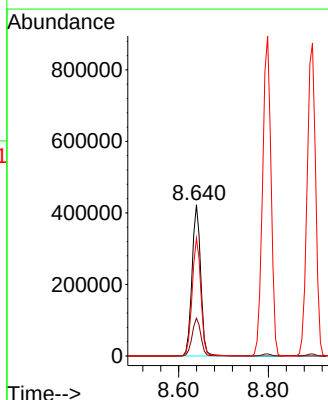
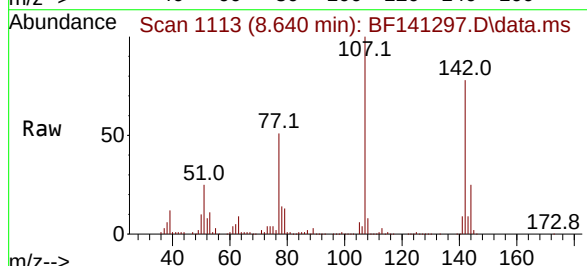
Tgt Ion:107 Resp: 566827

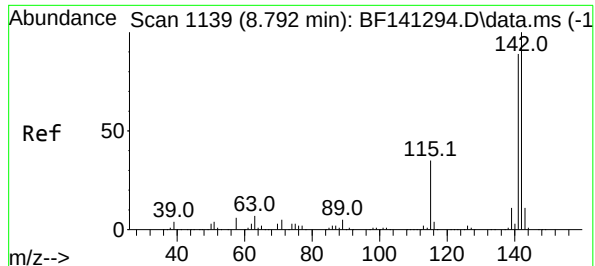
Ion Ratio Lower Upper

107 100

144 24.9 20.7 31.1

142 77.9 63.8 95.8





#37

2-Methylnaphthalene

Concen: 67.926 ng

RT: 8.798 min Scan# 1139

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

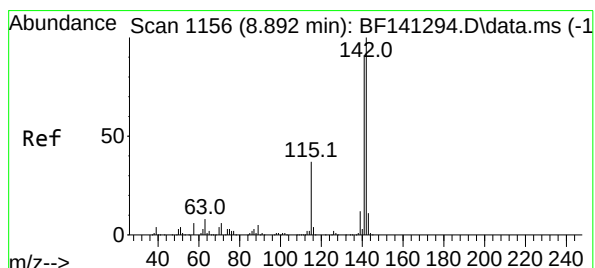
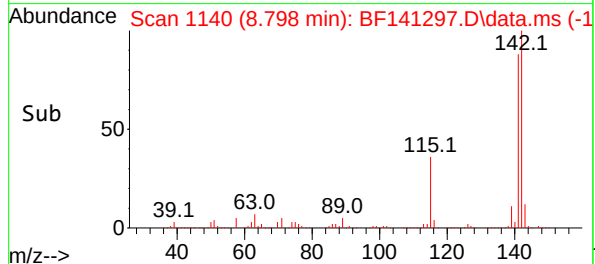
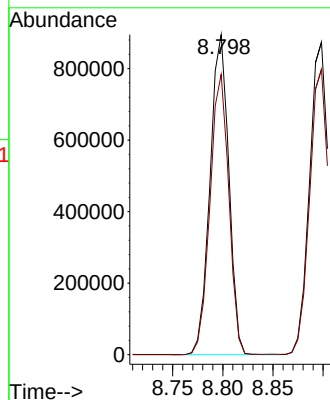
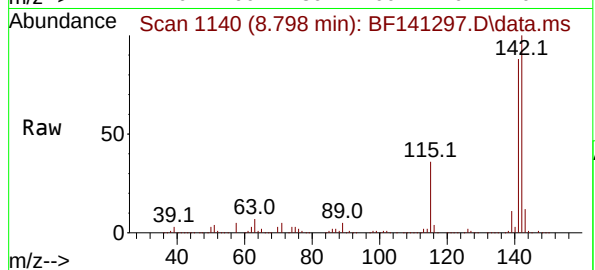
SSTDICC080

Tgt Ion:142 Resp: 1165995

Ion Ratio Lower Upper

142 100

141 87.6 71.3 106.9



#38

1-Methylnaphthalene

Concen: 67.988 ng

RT: 8.898 min Scan# 1157

Delta R.T. 0.006 min

Lab File: BF141297.D

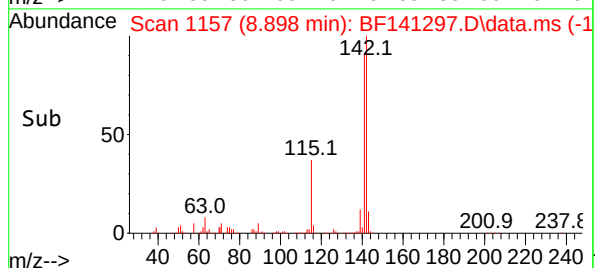
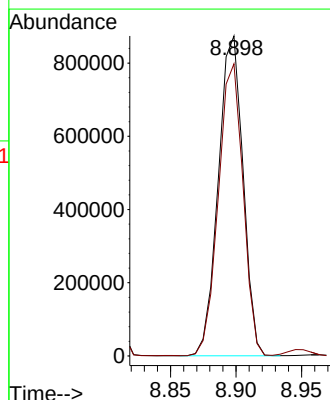
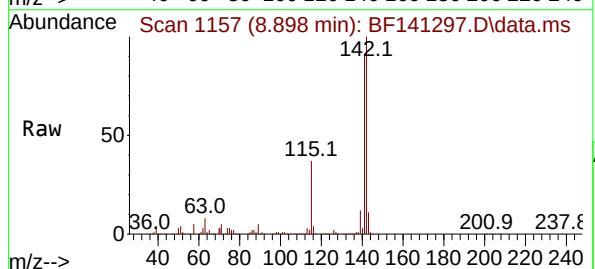
Acq: 29 Jan 2025 17:05

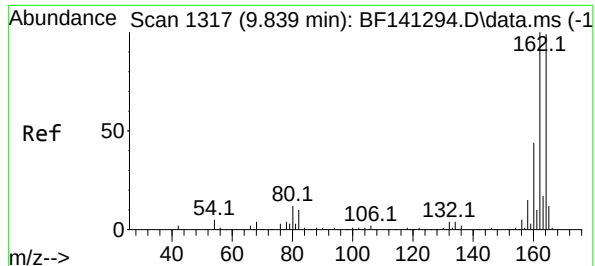
Tgt Ion:142 Resp: 1146275

Ion Ratio Lower Upper

142 100

141 91.3 73.2 109.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.839 min Scan# 1167

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

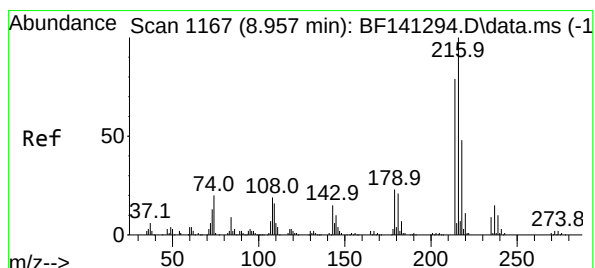
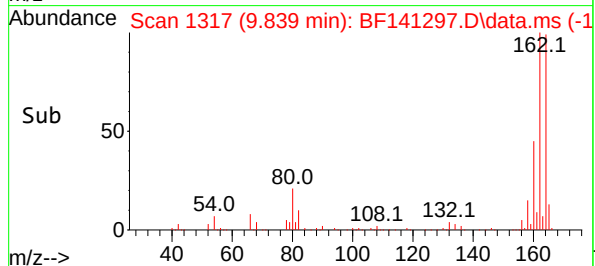
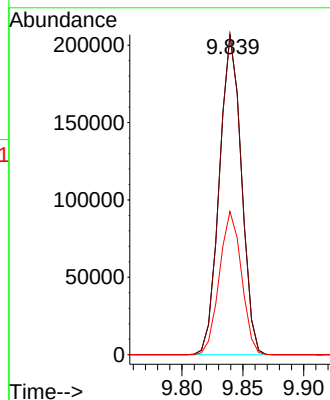
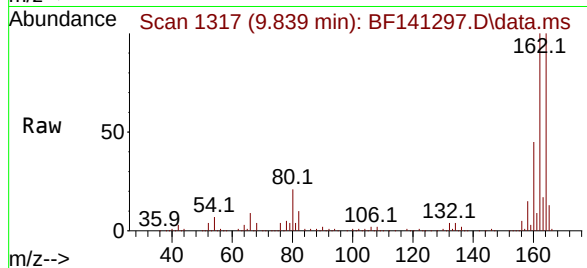
Tgt Ion:164 Resp: 259556

Ion Ratio Lower Upper

164 100

162 99.9 80.6 121.0

160 44.8 35.8 53.6



#40

1,2,4,5-Tetrachlorobenzene

Concen: 70.756 ng

RT: 8.963 min Scan# 1168

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Tgt Ion:216 Resp: 531237

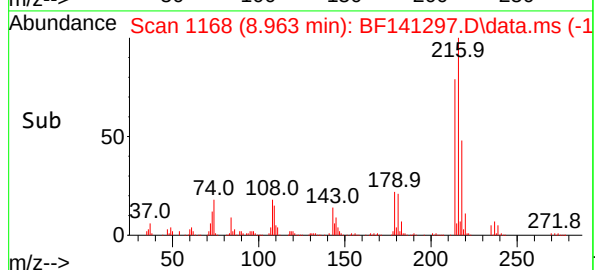
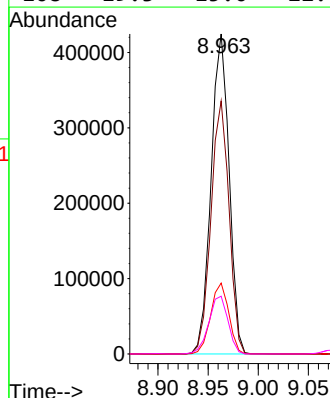
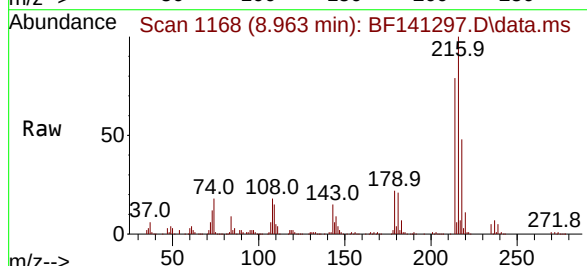
Ion Ratio Lower Upper

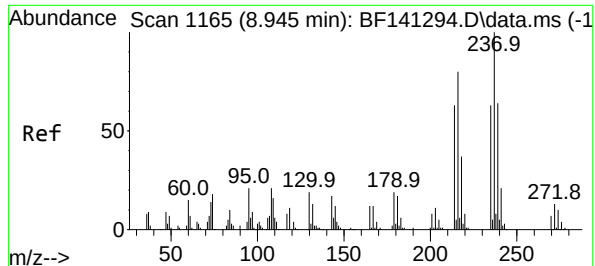
216 100

214 79.2 63.2 94.8

179 22.3 17.8 26.8

108 19.3 15.0 22.6

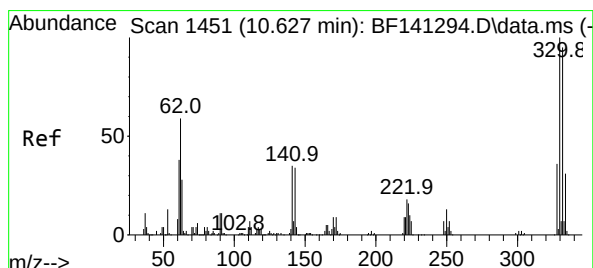
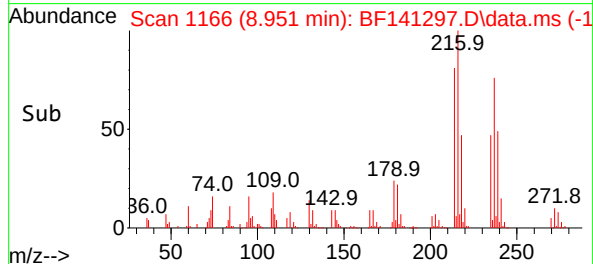
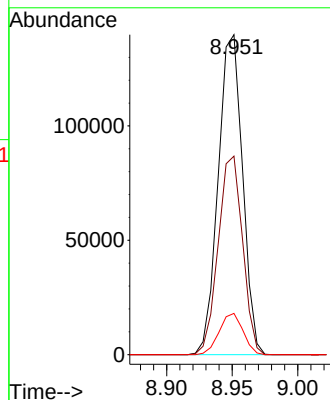
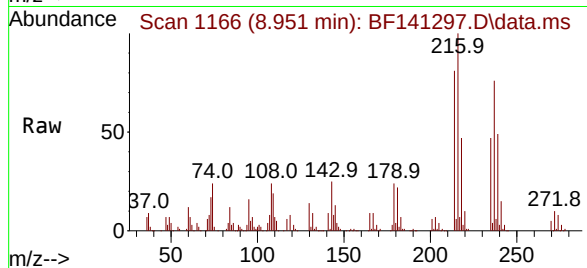




#41
Hexachlorocyclopentadiene
Concen: 83.336 ng
RT: 8.951 min Scan# 1166
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

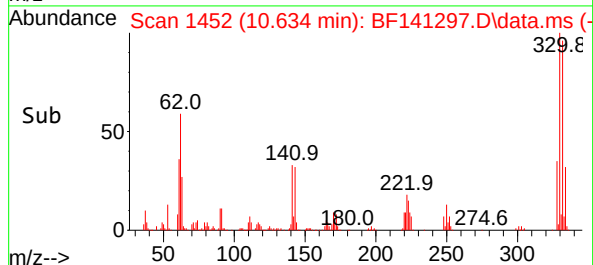
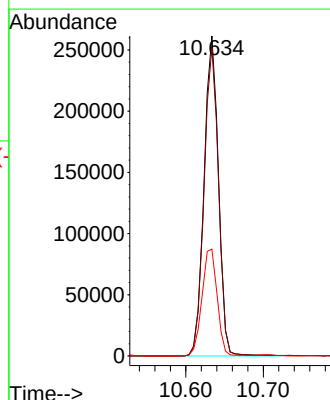
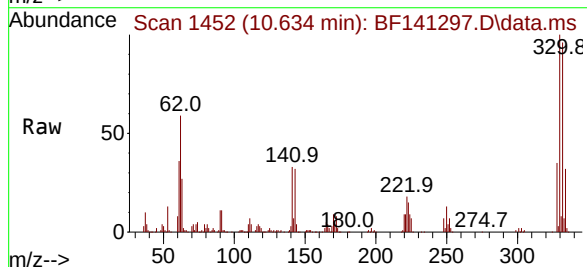
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

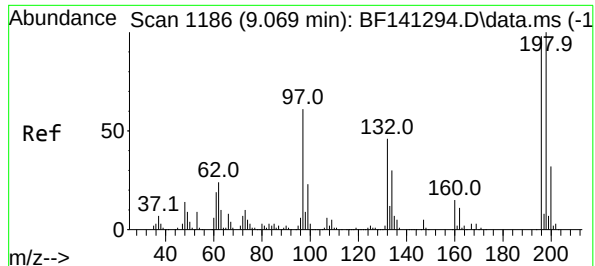
Tgt Ion:237 Resp: 180658
Ion Ratio Lower Upper
237 100
235 62.0 42.9 82.9
272 12.9 0.0 32.8



#42
2,4,6-Tribromophenol
Concen: 139.281 ng
RT: 10.634 min Scan# 1452
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:330 Resp: 337670
Ion Ratio Lower Upper
330 100
332 96.7 76.1 114.1
141 35.3 28.8 43.2





#43

2,4,6-Trichlorophenol

Concen: 73.727 ng

RT: 9.075 min Scan# 1186

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

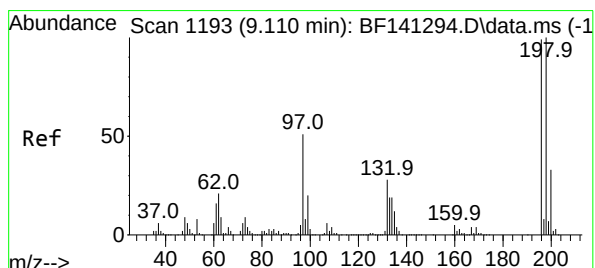
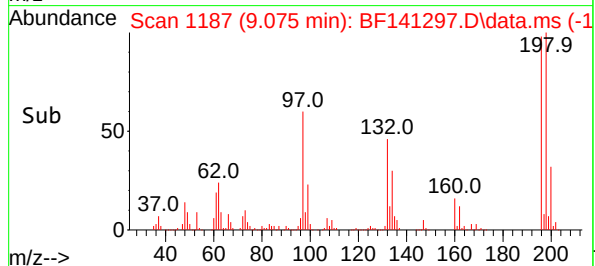
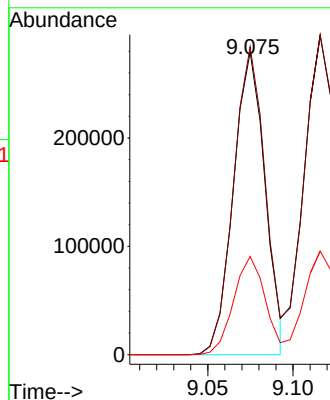
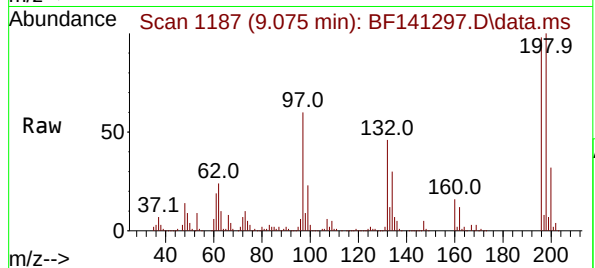
Tgt Ion:196 Resp: 360370

Ion Ratio Lower Upper

196 100

198 101.8 81.8 122.6

200 32.5 26.3 39.5



#44

2,4,5-Trichlorophenol

Concen: 74.958 ng

RT: 9.116 min Scan# 1194

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Tgt Ion:196 Resp: 397887

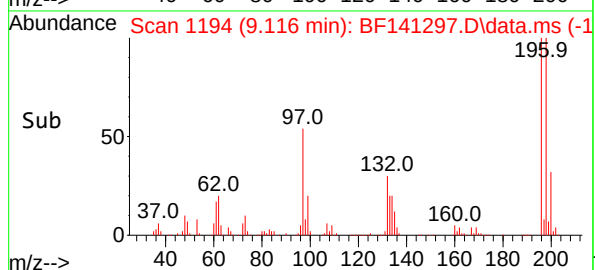
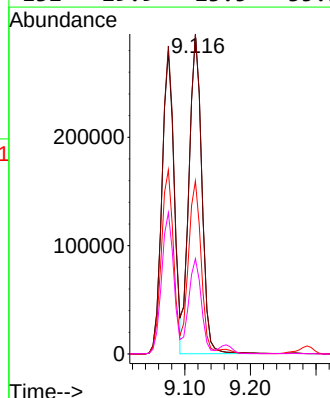
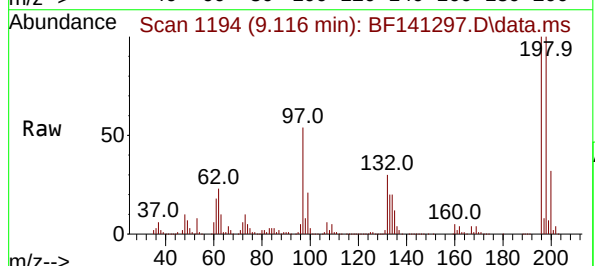
Ion Ratio Lower Upper

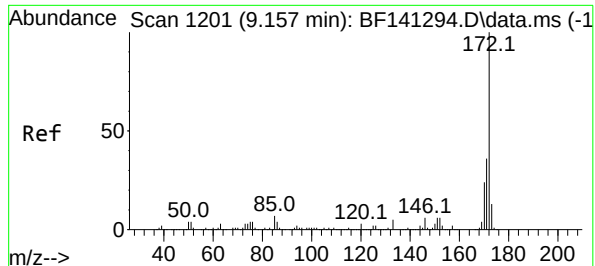
196 100

198 100.3 80.5 120.7

97 54.2 42.8 64.2

132 29.9 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 129.739 ng

RT: 9.163 min Scan# 1202

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

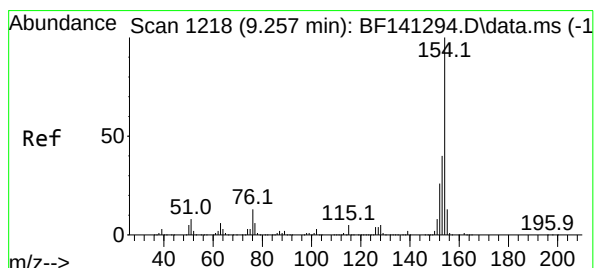
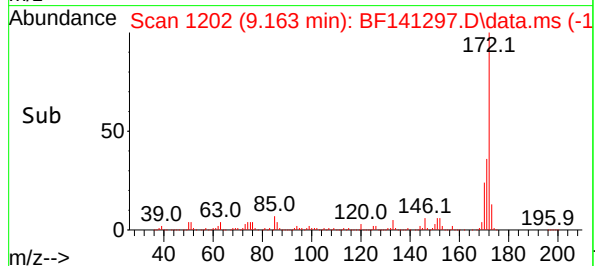
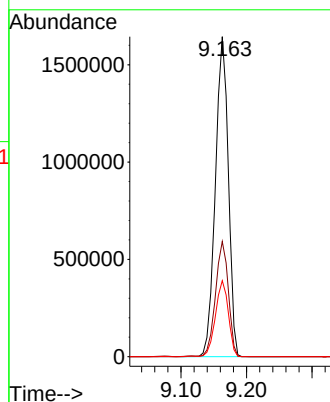
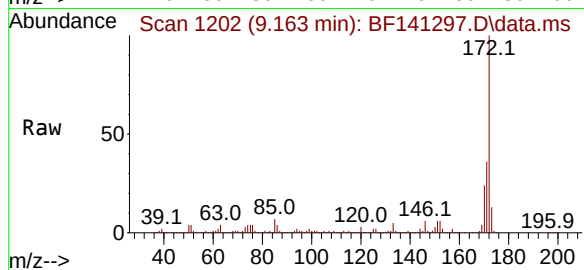
BNA_F

ClientSampleId :

SSTDICC080

Tgt Ion:172 Resp: 2248567

Ion	Ratio	Lower	Upper
172	100		
171	36.0	28.8	43.2
170	23.7	19.0	28.6



#46

1,1'-Biphenyl

Concen: 68.298 ng

RT: 9.263 min Scan# 1219

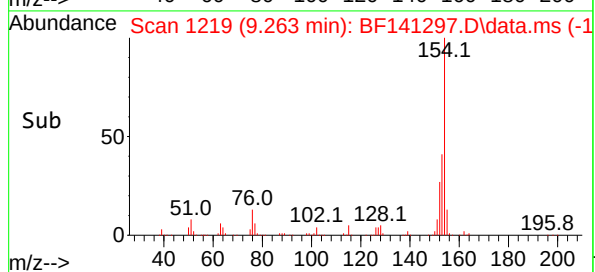
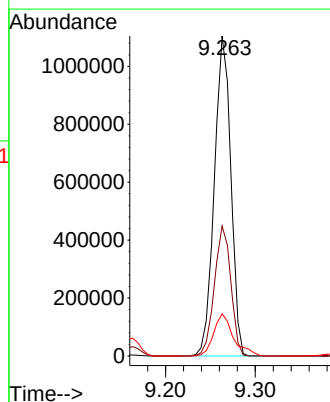
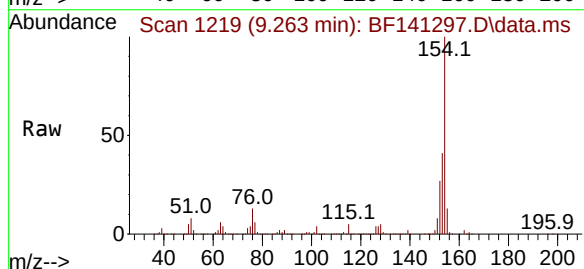
Delta R.T. 0.000 min

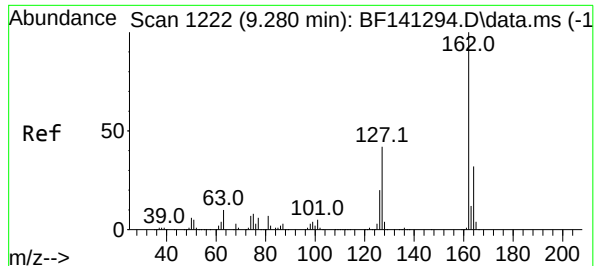
Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Tgt Ion:154 Resp: 1412015

Ion	Ratio	Lower	Upper
154	100		
153	40.6	20.0	60.0
76	13.2	0.0	32.8





#47

2-Chloronaphthalene

Concen: 69.578 ng

RT: 9.287 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

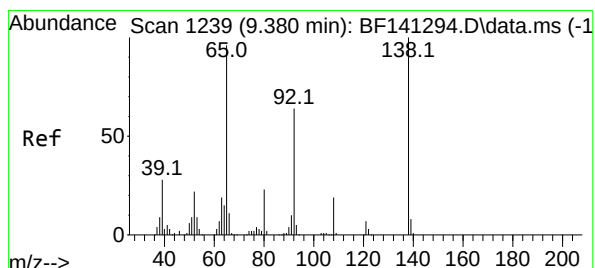
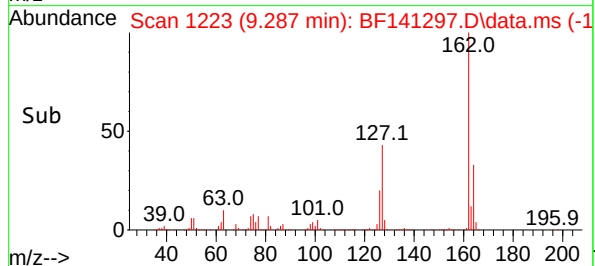
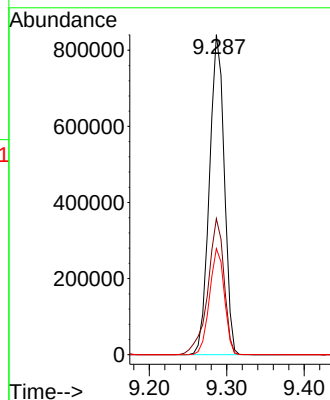
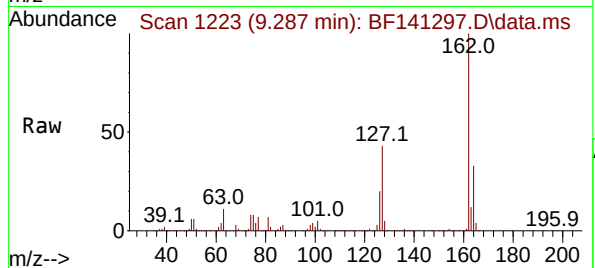
Tgt Ion:162 Resp: 1118593

Ion Ratio Lower Upper

162 100

127 42.5 33.7 50.5

164 33.1 25.9 38.9



#48

2-Nitroaniline

Concen: 75.652 ng

RT: 9.381 min Scan# 1239

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

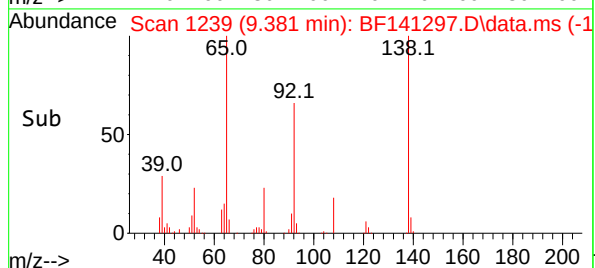
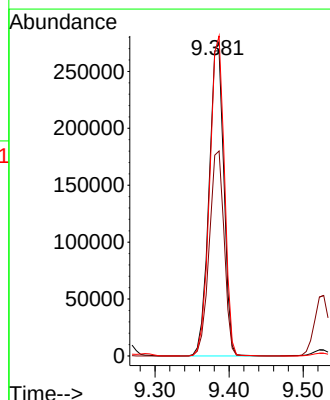
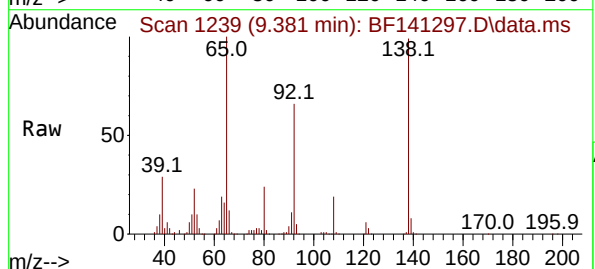
Tgt Ion: 65 Resp: 378379

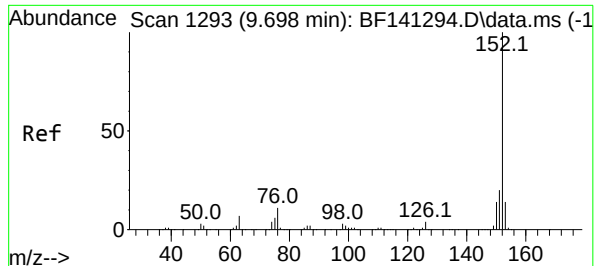
Ion Ratio Lower Upper

65 100

92 65.8 53.3 79.9

138 99.5 83.6 125.4





#49

Acenaphthylene

Concen: 68.901 ng

RT: 9.704 min Scan# 1294

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

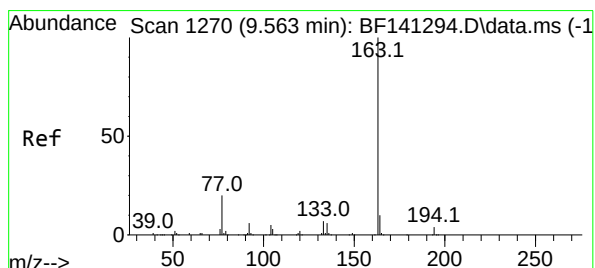
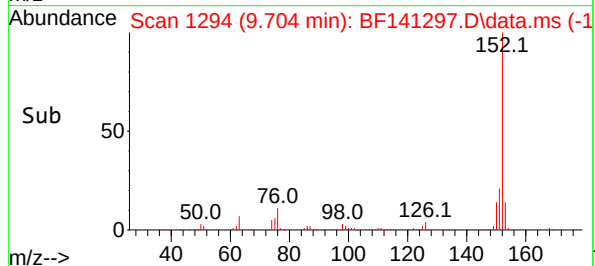
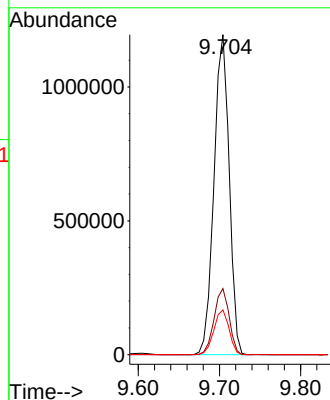
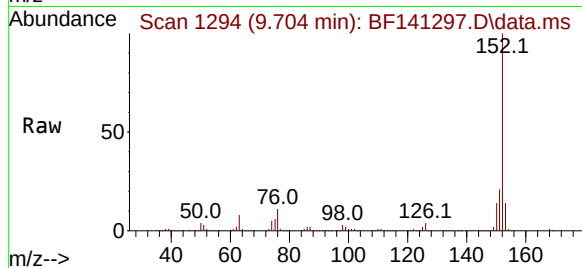
Tgt Ion:152 Resp: 1552508

Ion Ratio Lower Upper

152 100

151 20.7 16.2 24.2

153 14.0 11.0 16.6



#50

Dimethylphthalate

Concen: 71.308 ng

RT: 9.569 min Scan# 1271

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

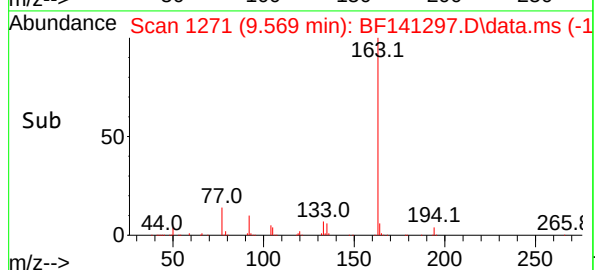
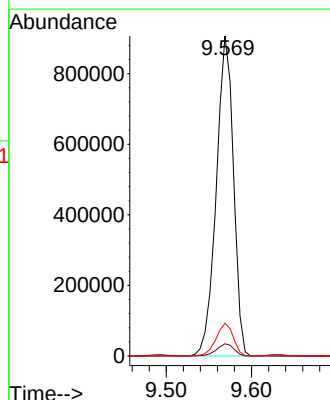
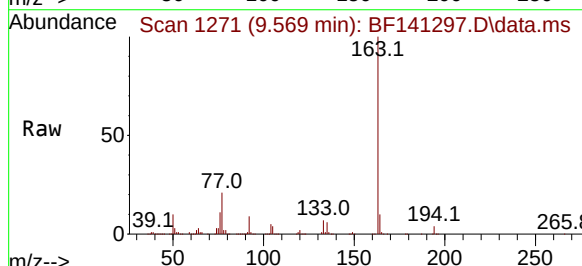
Tgt Ion:163 Resp: 1269770

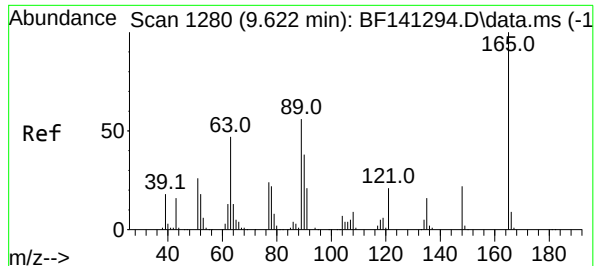
Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.6

164 10.2 8.0 12.0





#51

2,6-Dinitrotoluene

Concen: 72.992 ng

RT: 9.628 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

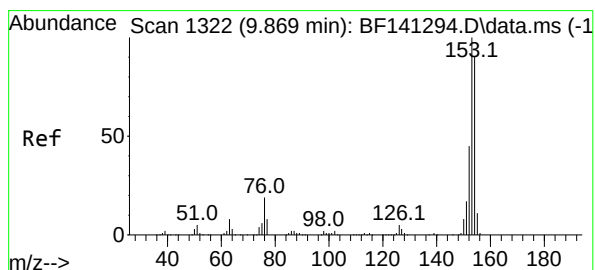
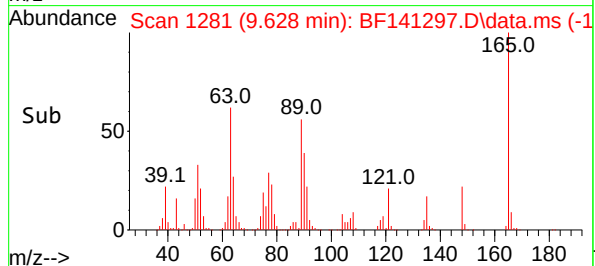
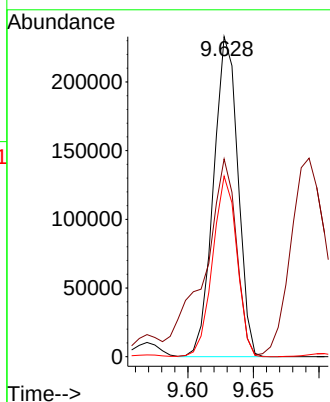
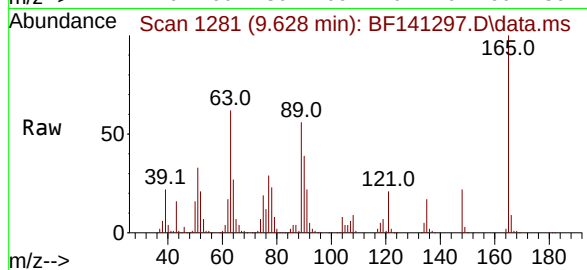
Tgt Ion:165 Resp: 300867

Ion Ratio Lower Upper

165 100

63 61.8 48.1 72.1

89 56.4 44.9 67.3



#52

Acenaphthene

Concen: 69.700 ng

RT: 9.875 min Scan# 1323

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

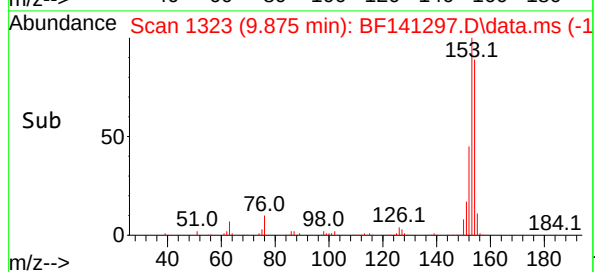
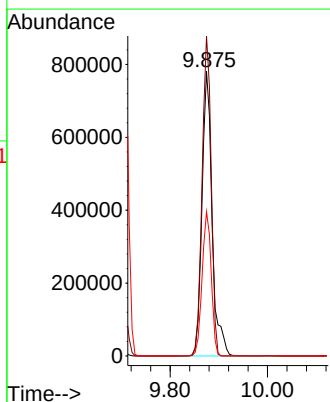
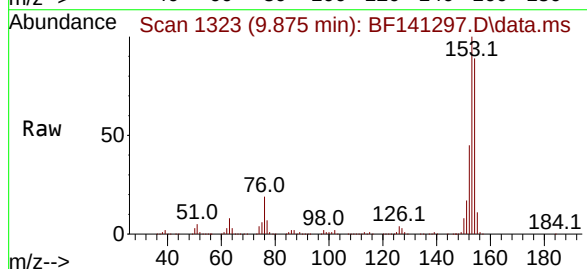
Tgt Ion:154 Resp: 1120345

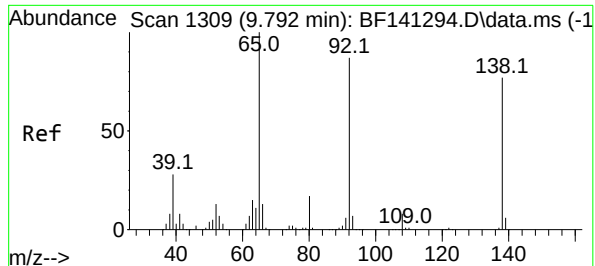
Ion Ratio Lower Upper

154 100

153 112.5 89.0 133.4

152 50.7 40.2 60.4

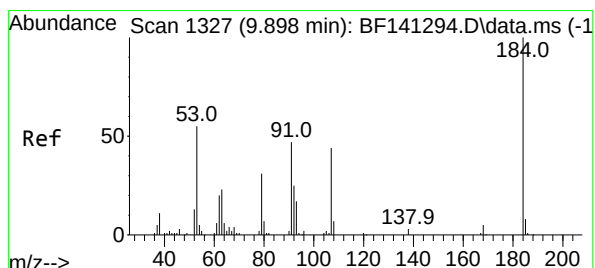
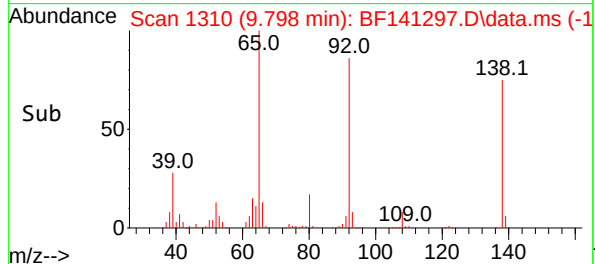
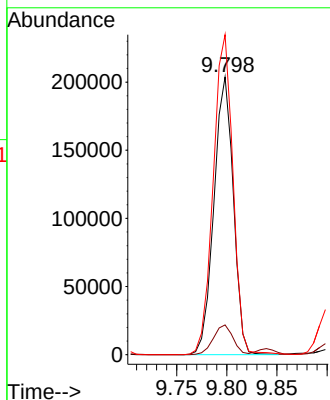
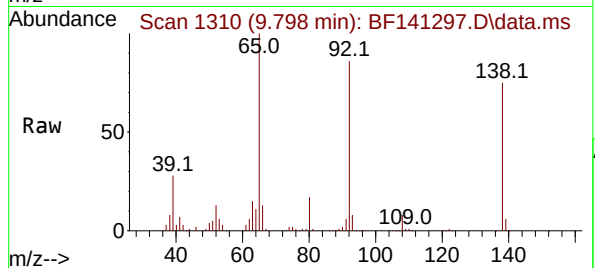




#53
3-Nitroaniline
Concen: 67.215 ng
RT: 9.798 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

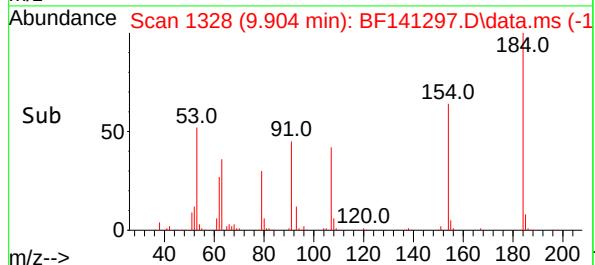
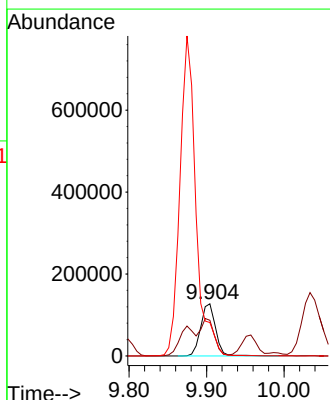
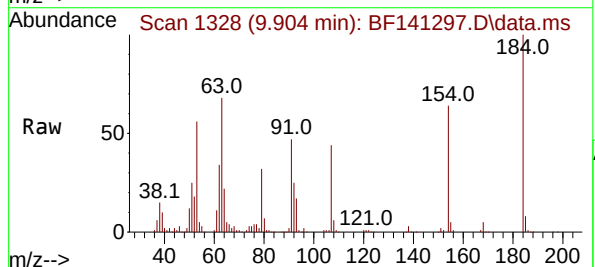
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

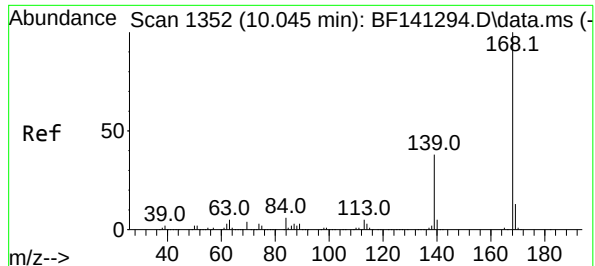
Tgt Ion:138 Resp: 274410
Ion Ratio Lower Upper
138 100
108 10.7 8.6 12.8
92 115.2 91.0 136.6



#54
2,4-Dinitrophenol
Concen: 101.582 ng
RT: 9.904 min Scan# 1328
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:184 Resp: 169946
Ion Ratio Lower Upper
184 100
63 68.3 54.1 81.1
154 64.0 50.7 76.1





#55

Dibenzenofuran

Concen: 67.158 ng

RT: 10.045 min Scan# 1352

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

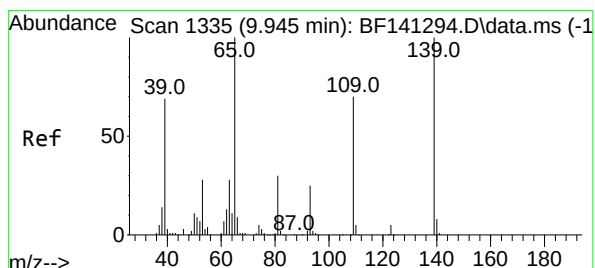
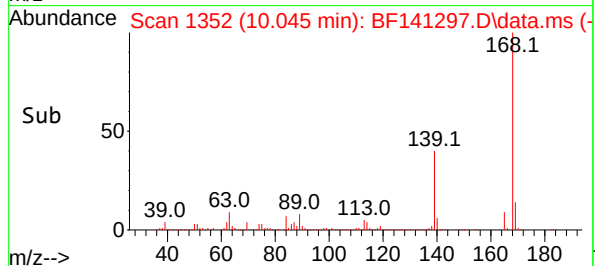
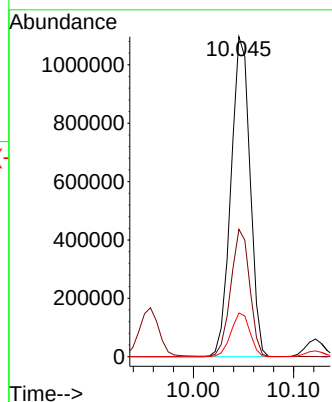
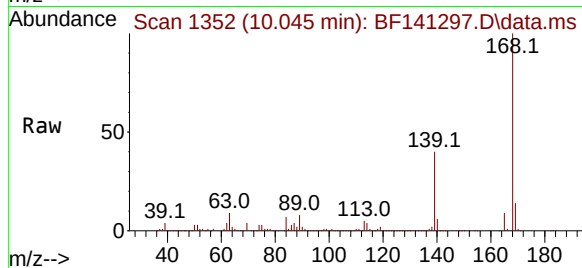
Tgt Ion:168 Resp: 1451668

Ion Ratio Lower Upper

168 100

139 39.8 30.6 46.0

169 13.7 10.8 16.2



#56

4-Nitrophenol

Concen: 78.788 ng

RT: 9.957 min Scan# 1337

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

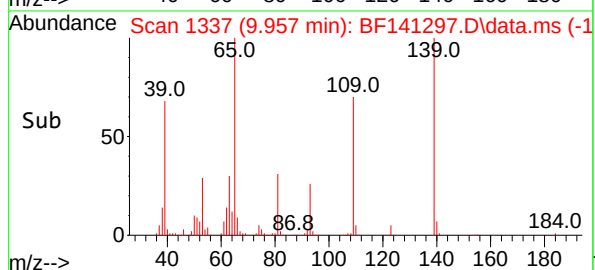
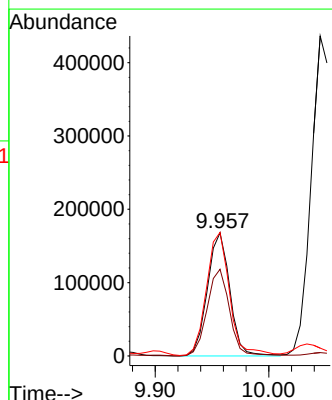
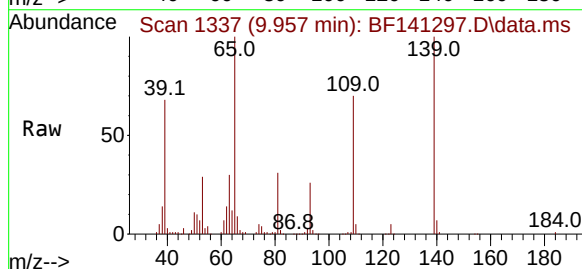
Tgt Ion:139 Resp: 230369

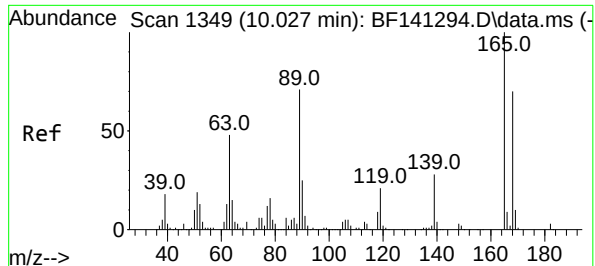
Ion Ratio Lower Upper

139 100

109 70.4 50.2 90.2

65 100.3 80.6 120.6

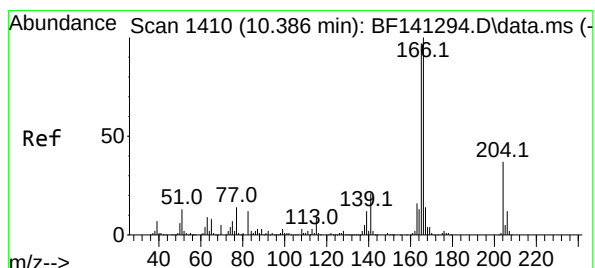
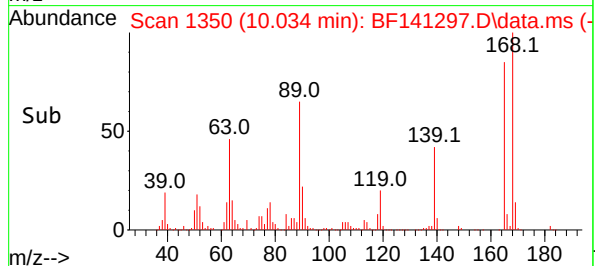
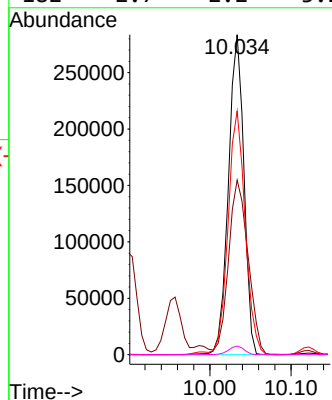
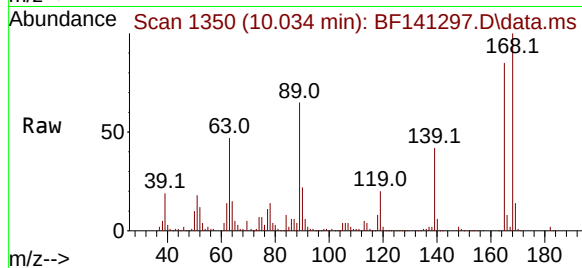




#57
2,4-Dinitrotoluene
Concen: 70.012 ng
RT: 10.034 min Scan# 1410
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

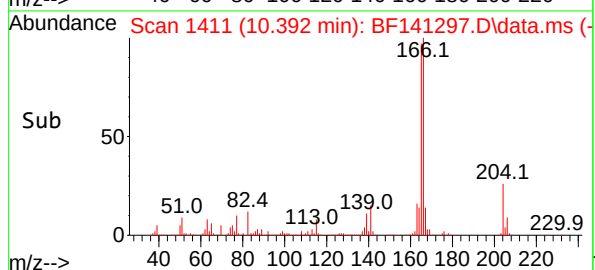
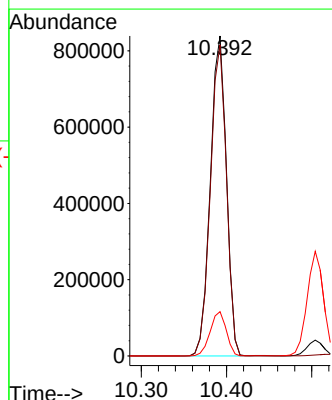
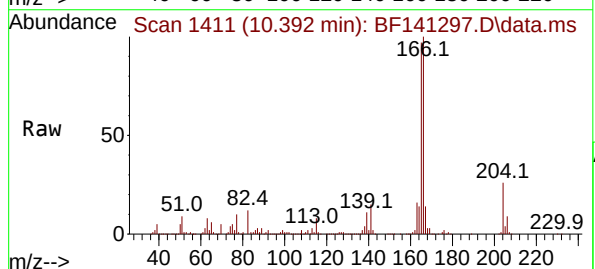
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

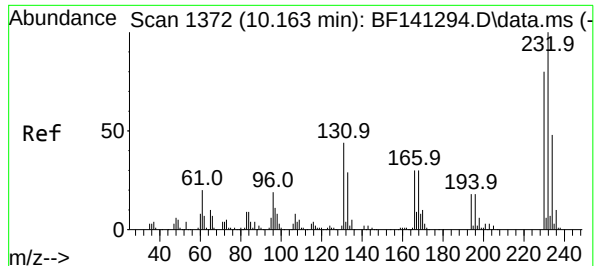
Tgt Ion:165 Resp: 375659
Ion Ratio Lower Upper
165 100
63 54.5 39.2 58.8
89 76.1 56.9 85.3
182 2.7 2.2 3.2



#58
Fluorene
Concen: 65.335 ng
RT: 10.392 min Scan# 1411
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:166 Resp: 1099129
Ion Ratio Lower Upper
166 100
165 97.2 77.5 116.3
167 13.9 10.9 16.3

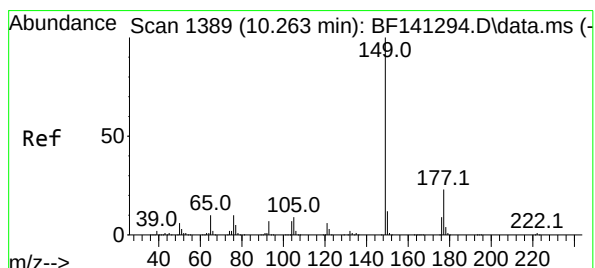
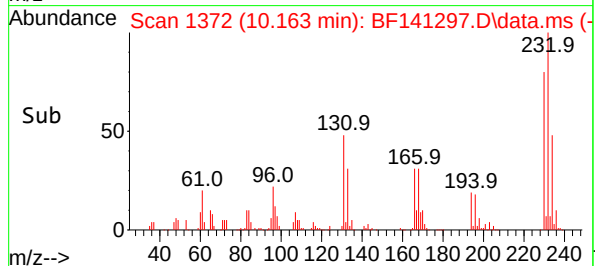
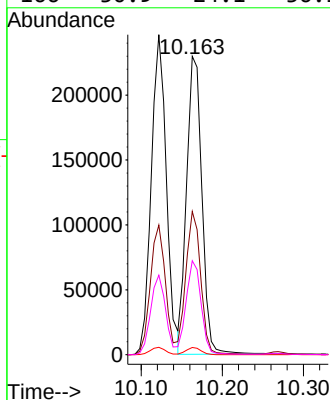
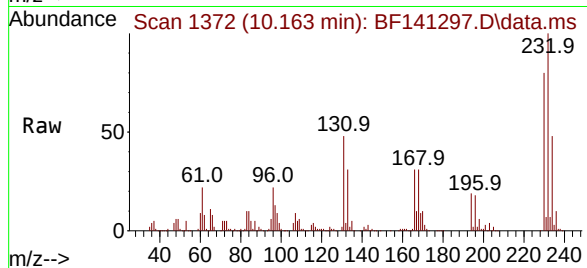




#59
2,3,4,6-Tetrachlorophenol
Concen: 72.005 ng
RT: 10.163 min Scan# 1372
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

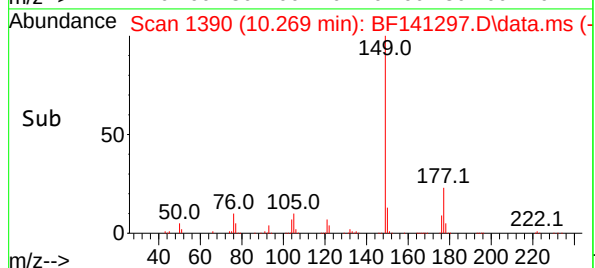
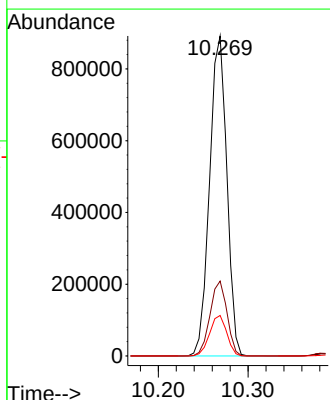
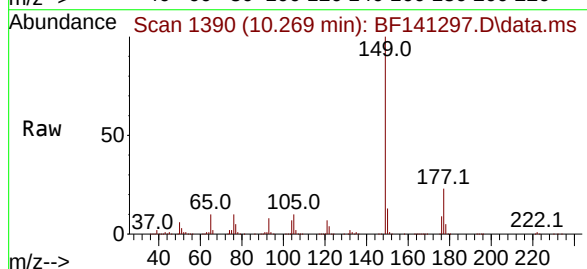
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

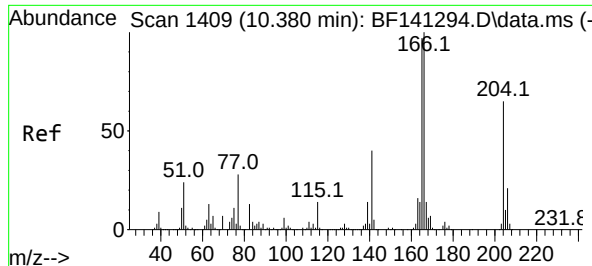
Tgt Ion:232 Resp: 302300
Ion Ratio Lower Upper
232 100
131 47.5 36.4 54.6
130 2.4 1.9 2.9
166 30.9 24.1 36.1



#60
Diethylphthalate
Concen: 68.571 ng
RT: 10.269 min Scan# 1390
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:149 Resp: 1189833
Ion Ratio Lower Upper
149 100
177 23.4 18.5 27.7
150 12.7 10.0 15.0

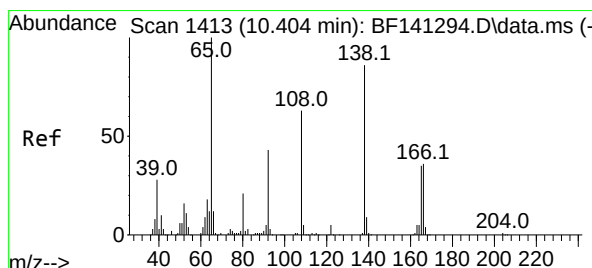
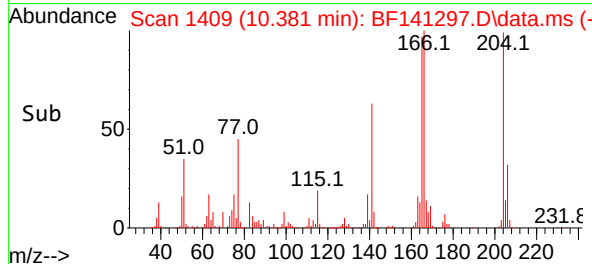
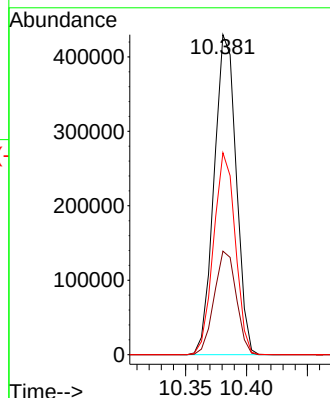
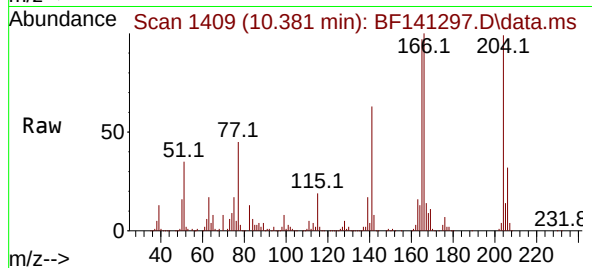




#61
4-Chlorophenyl-phenylether
Concen: 65.968 ng
RT: 10.381 min Scan# 1409
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

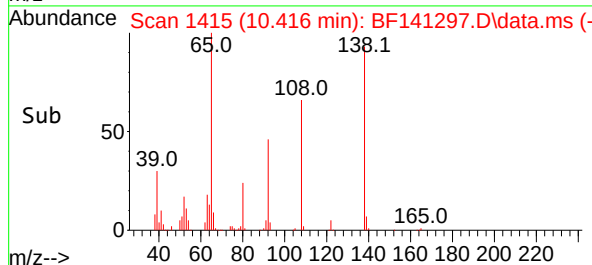
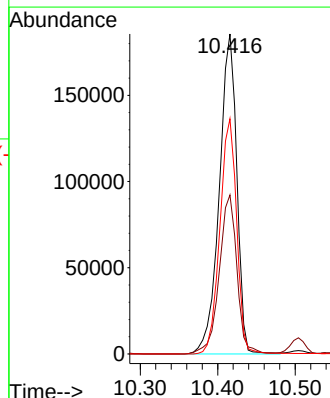
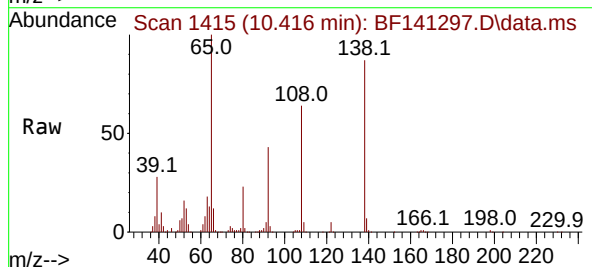
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

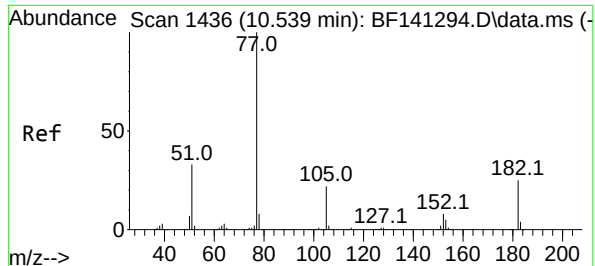
Tgt Ion:204 Resp: 541468
Ion Ratio Lower Upper
204 100
206 32.4 25.9 38.9
141 63.1 49.5 74.3



#62
4-Nitroaniline
Concen: 73.604 ng
RT: 10.416 min Scan# 1415
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:138 Resp: 292019
Ion Ratio Lower Upper
138 100
92 49.7 30.1 70.1
108 73.5 53.1 93.1

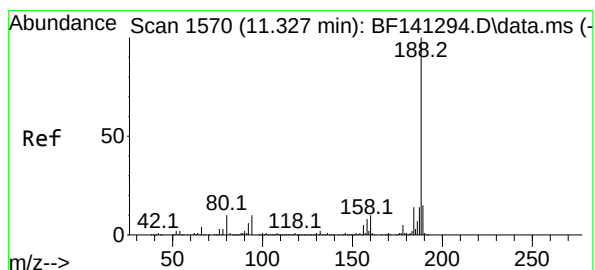
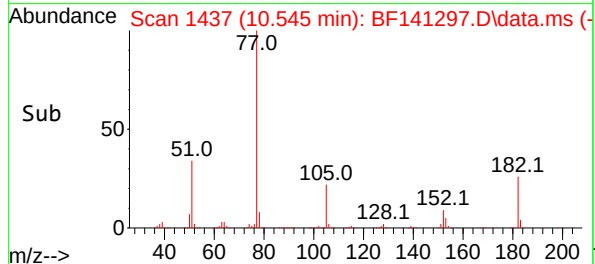
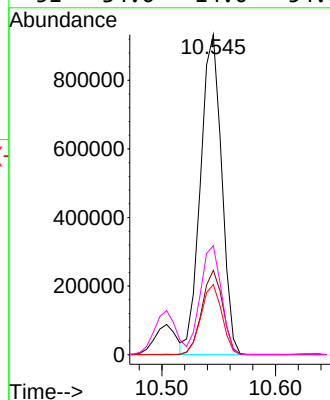
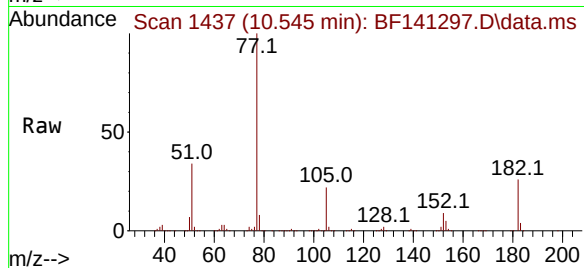




#63
Azobenzene
Concen: 69.582 ng
RT: 10.545 min Scan# 1436
Delta R.T. 0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

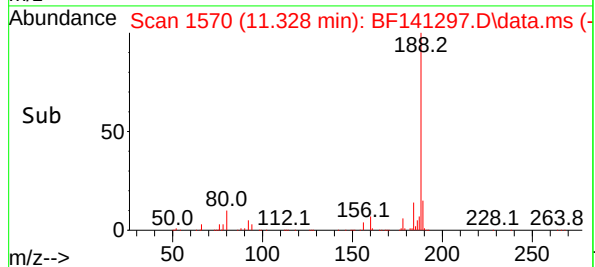
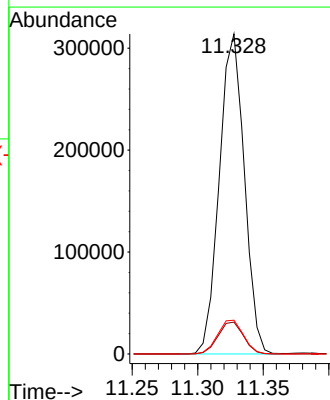
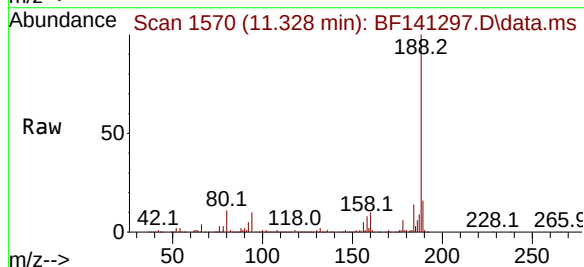
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

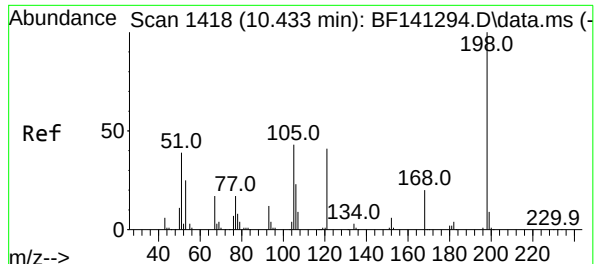
Tgt Ion: 77 Resp: 1206328
Ion Ratio Lower Upper
77 100
182 26.3 5.1 45.1
105 21.9 1.8 41.8
51 34.0 14.0 54.0



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.328 min Scan# 1570
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion: 188 Resp: 415634
Ion Ratio Lower Upper
188 100
94 10.0 7.8 11.6
80 10.6 8.2 12.4

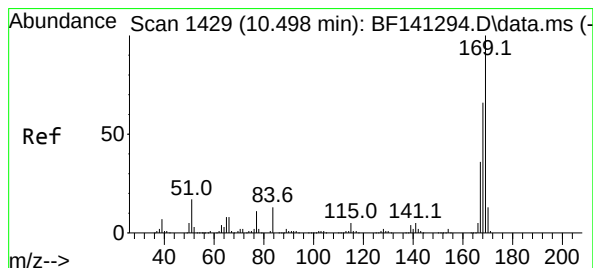
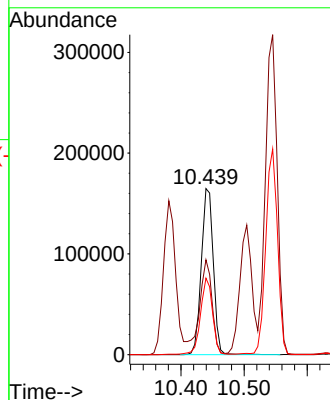
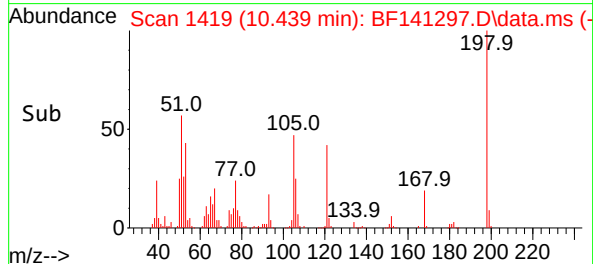
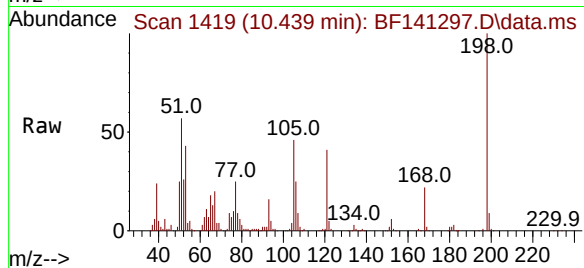




#65
4,6-Dinitro-2-methylphenol
Concen: 89.943 ng
RT: 10.439 min Scan# 1418
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

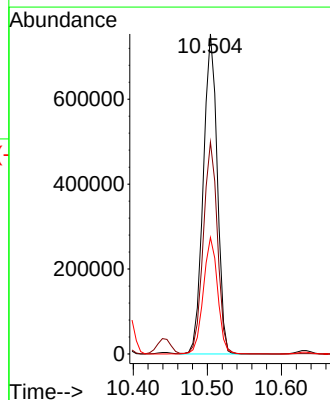
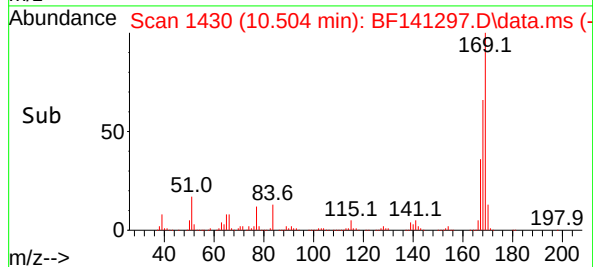
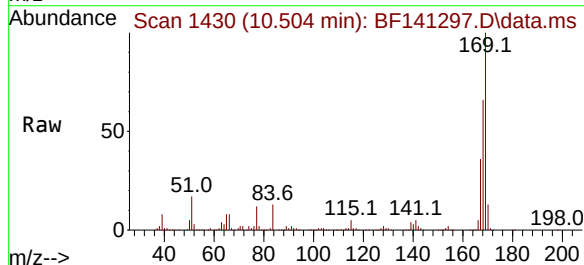
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

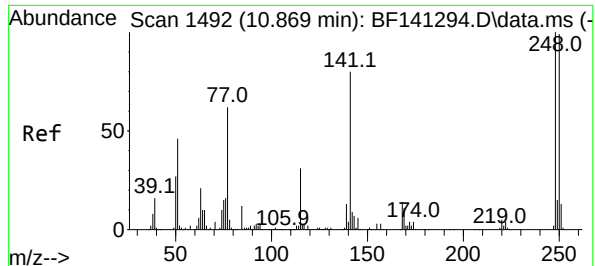
Tgt Ion:198 Resp: 217265
Ion Ratio Lower Upper
198 100
51 57.1 33.4 73.4
105 46.0 24.4 64.4



#66
n-Nitrosodiphenylamine
Concen: 72.353 ng
RT: 10.504 min Scan# 1430
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:169 Resp: 986121
Ion Ratio Lower Upper
169 100
168 66.2 53.0 79.4
167 36.4 28.8 43.2





#67

4-Bromophenyl-phenylether

Concen: 74.136 ng

RT: 10.875 min Scan# 14

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

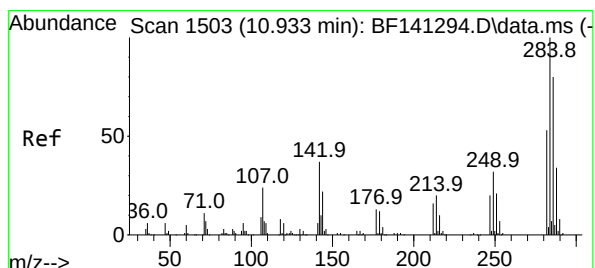
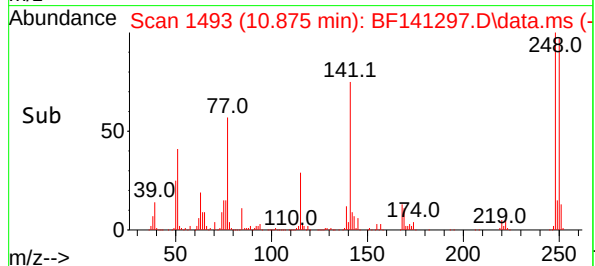
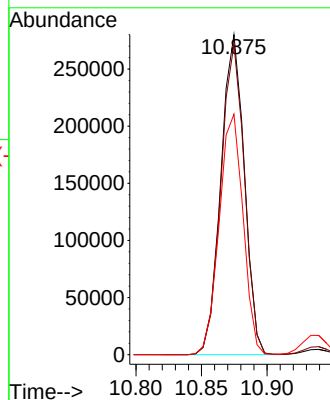
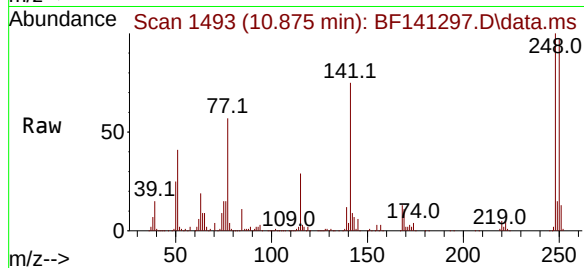
Tgt Ion:248 Resp: 348615

Ion Ratio Lower Upper

248 100

250 97.0 79.0 118.4

141 75.1 63.7 95.5



#68

Hexachlorobenzene

Concen: 72.215 ng

RT: 10.939 min Scan# 1504

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

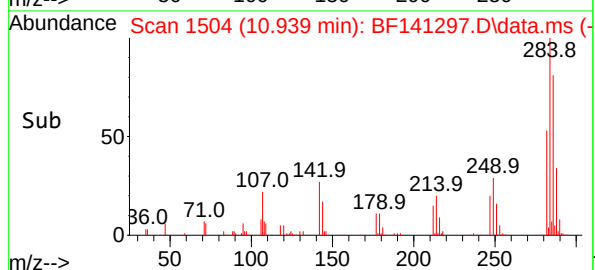
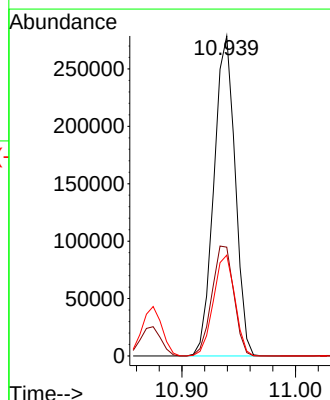
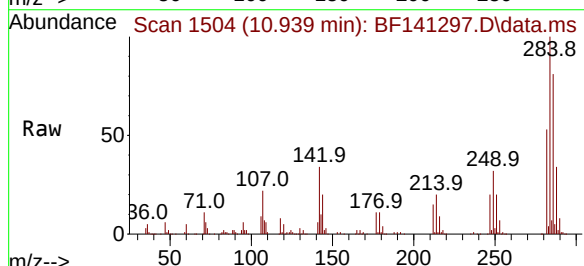
Tgt Ion:284 Resp: 361469

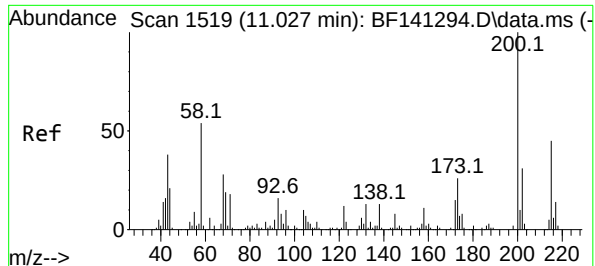
Ion Ratio Lower Upper

284 100

142 34.0 29.5 44.3

249 31.5 25.4 38.2





#69

Atrazine

Concen: 83.452 ng

RT: 11.033 min Scan# 1520

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

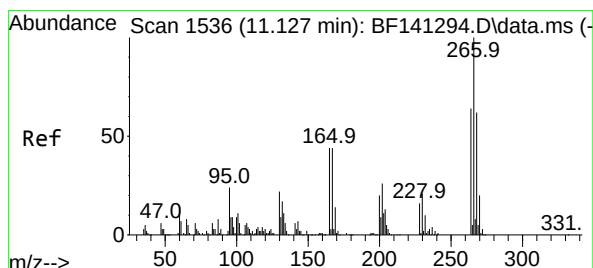
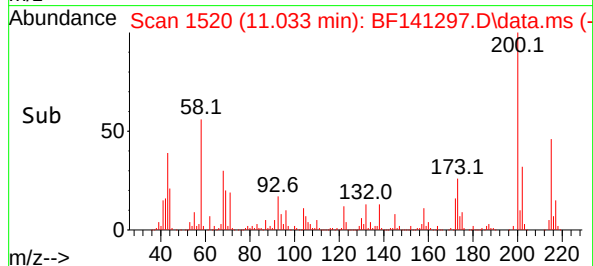
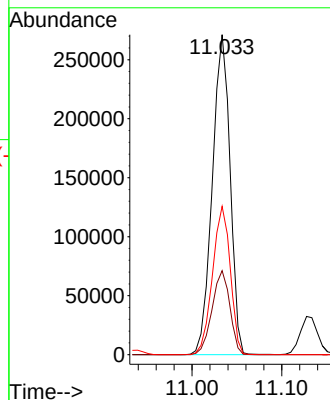
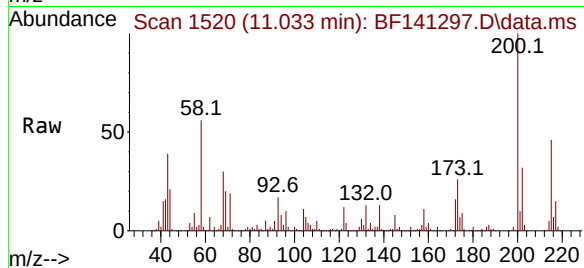
Tgt Ion:200 Resp: 372792

Ion Ratio Lower Upper

200 100

173 26.2 5.9 45.9

215 46.4 25.2 65.2



#70

Pentachlorophenol

Concen: 81.539 ng

RT: 11.133 min Scan# 1537

Delta R.T. 0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

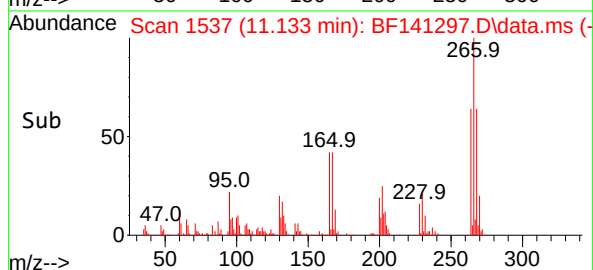
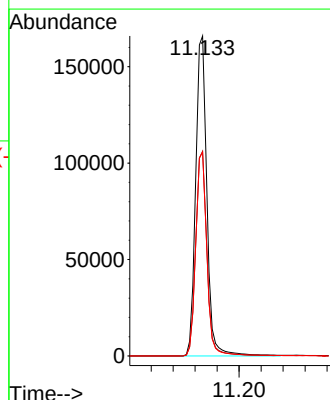
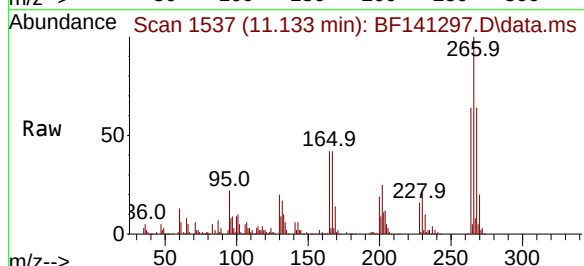
Tgt Ion:266 Resp: 235030

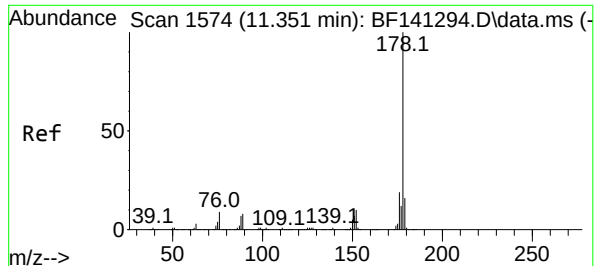
Ion Ratio Lower Upper

266 100

268 64.0 49.9 74.9

264 63.7 51.0 76.4

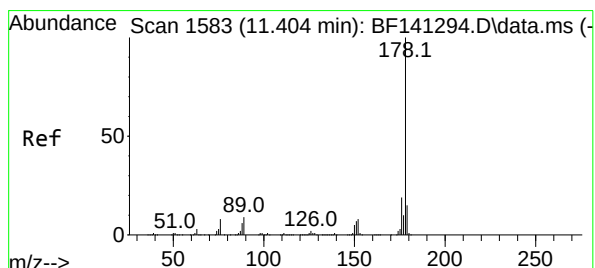
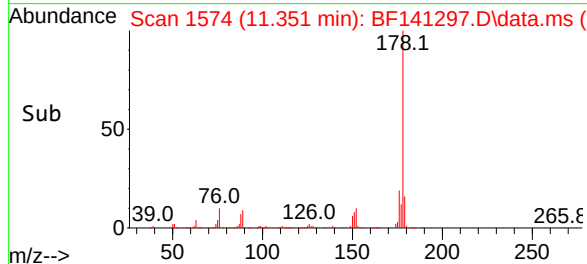
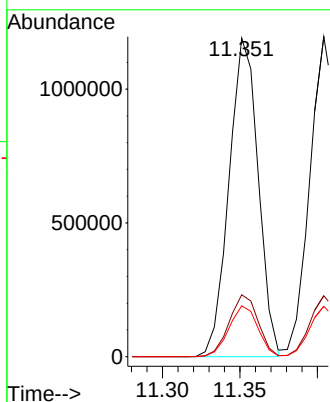
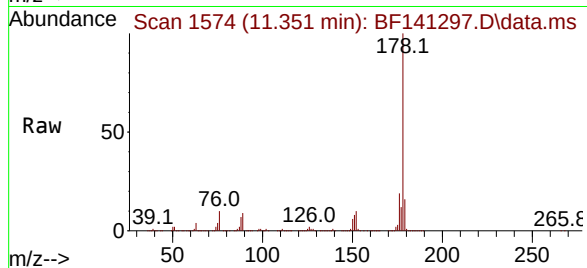




#71
Phenanthrene
Concen: 68.257 ng
RT: 11.351 min Scan# 1574
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

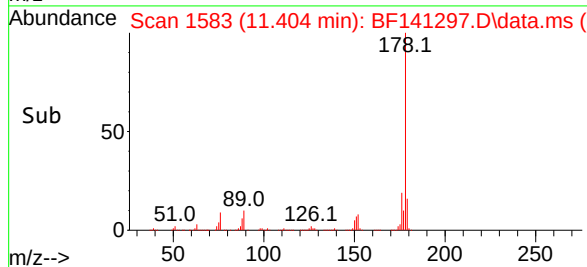
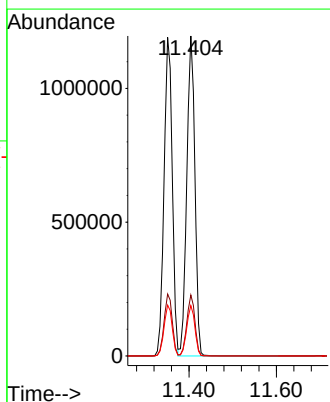
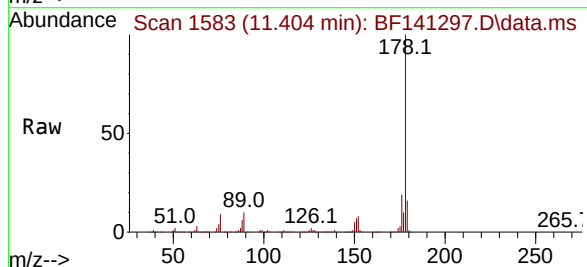
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

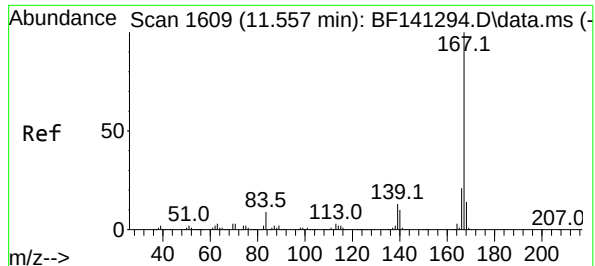
Tgt Ion:178 Resp: 1557660
Ion Ratio Lower Upper
178 100
176 19.5 15.3 22.9
179 16.0 12.5 18.7



#72
Anthracene
Concen: 68.749 ng
RT: 11.404 min Scan# 1583
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:178 Resp: 1535860
Ion Ratio Lower Upper
178 100
176 19.1 15.0 22.6
179 15.8 12.3 18.5

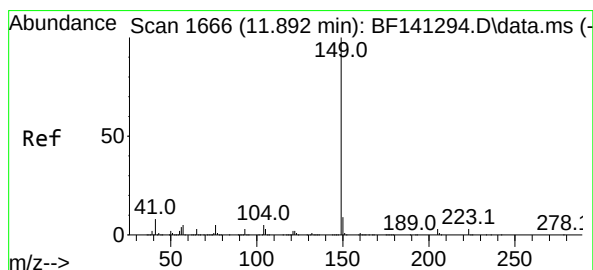
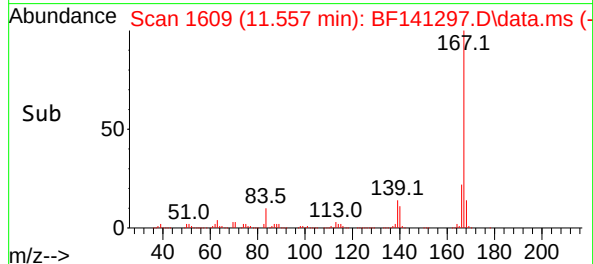
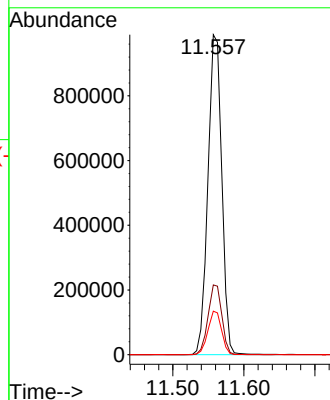
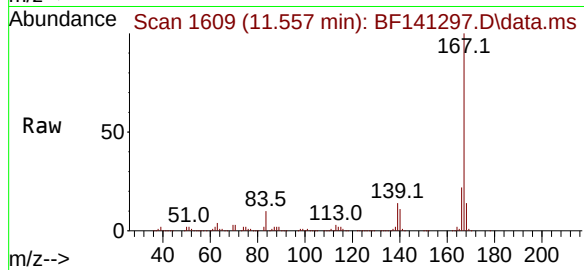




#73
Carbazole
Concen: 67.630 ng
RT: 11.557 min Scan# 1609
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

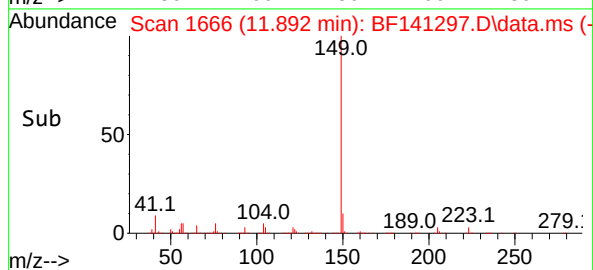
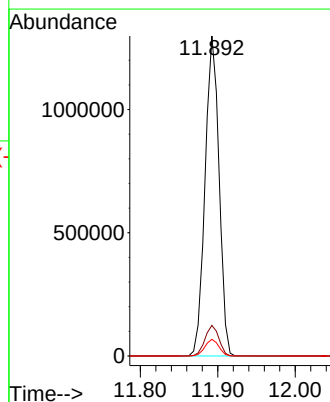
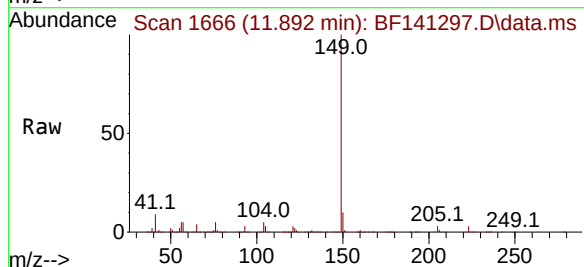
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

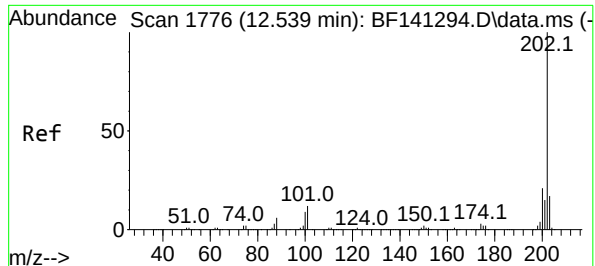
Tgt Ion:167 Resp: 1342447
Ion Ratio Lower Upper
167 100
166 21.8 17.0 25.6
139 13.6 10.6 16.0



#74
Di-n-butylphthalate
Concen: 67.604 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:149 Resp: 1626342
Ion Ratio Lower Upper
149 100
150 9.6 7.4 11.2
104 5.2 3.9 5.9

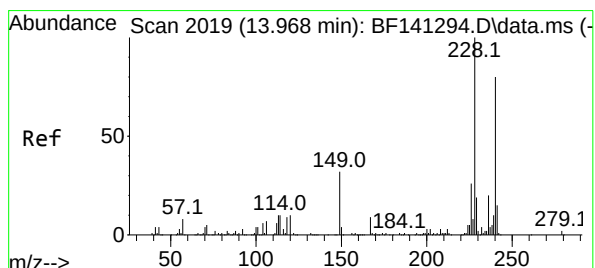
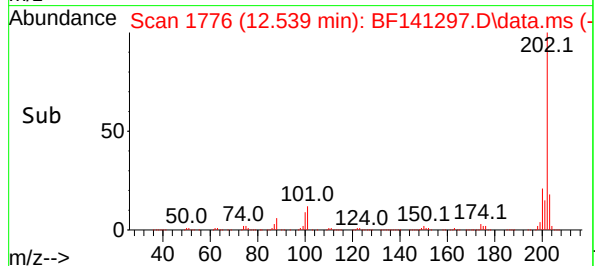
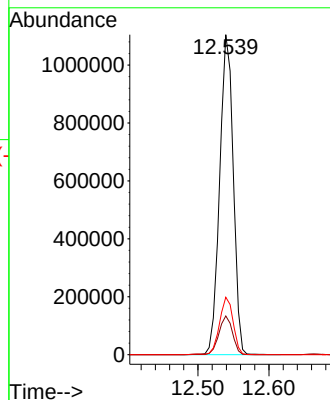
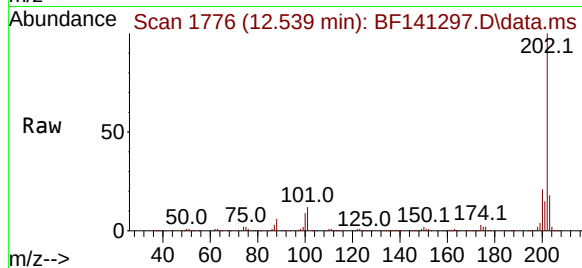




#75
Fluoranthene
Concen: 64.490 ng
RT: 12.539 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

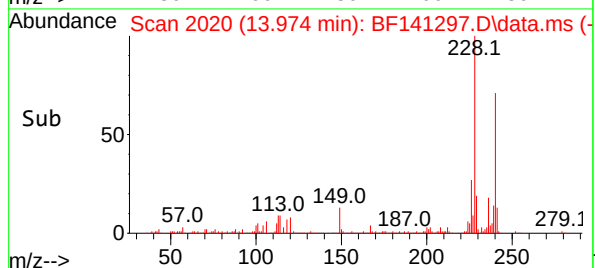
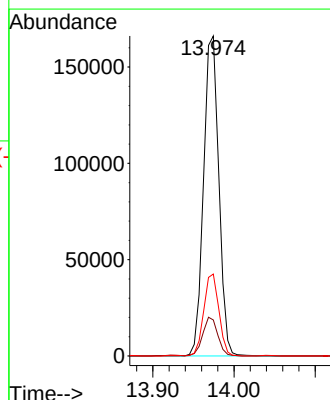
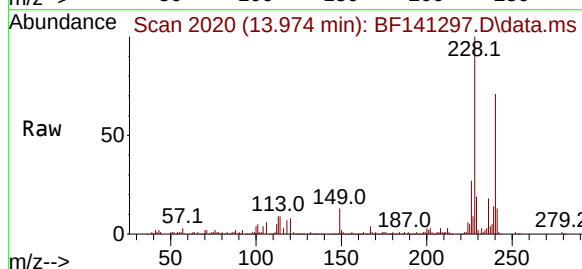
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

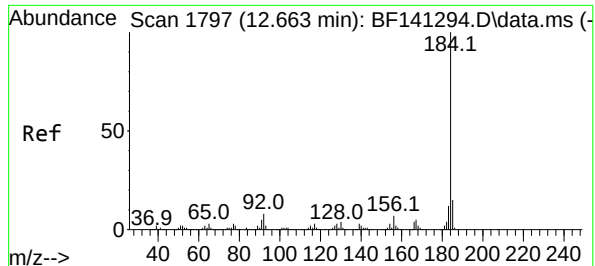
Tgt Ion:202 Resp: 1463196
Ion Ratio Lower Upper
202 100
101 12.1 0.0 31.7
203 18.0 0.0 37.5



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2020
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:240 Resp: 216592
Ion Ratio Lower Upper
240 100
120 11.2 10.0 15.0
236 25.6 19.7 29.5





#77

Benzidine

Concen: 67.834 ng

RT: 12.663 min Scan# 1797

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDIC080

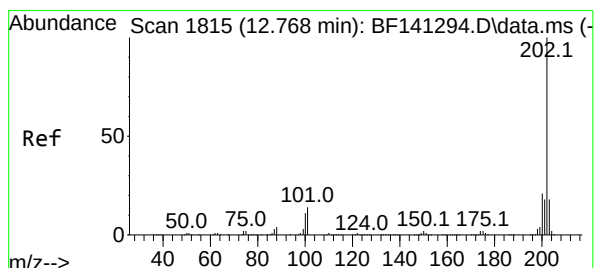
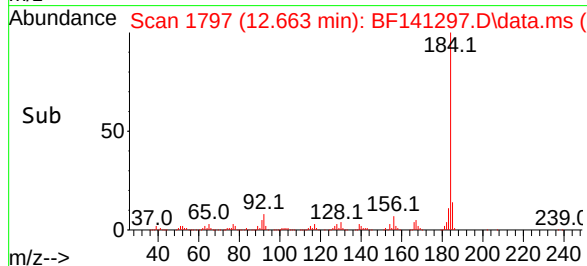
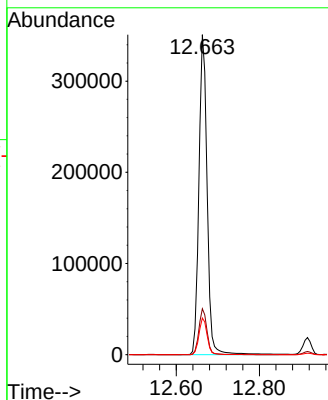
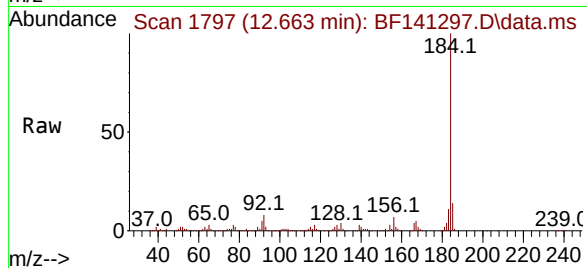
Tgt Ion:184 Resp: 481470

Ion Ratio Lower Upper

184 100

185 14.3 11.9 17.9

183 11.5 9.5 14.3



#78

Pyrene

Concen: 68.287 ng

RT: 12.769 min Scan# 1815

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

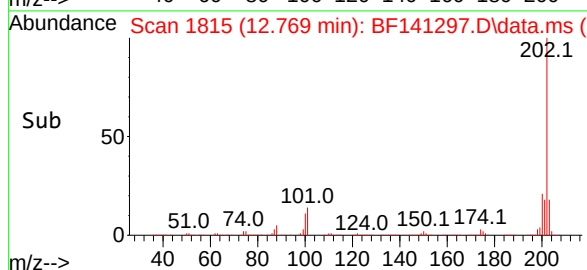
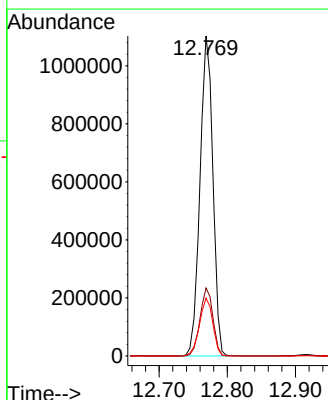
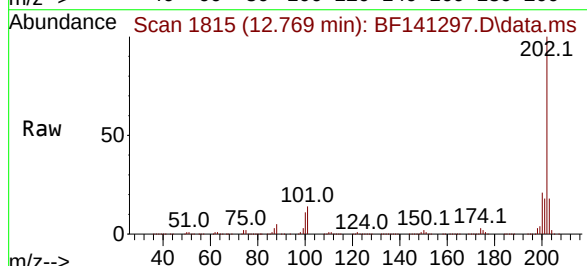
Tgt Ion:202 Resp: 1450076

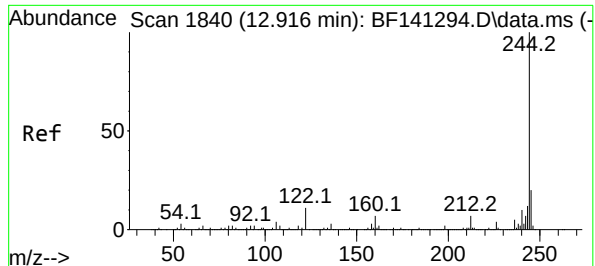
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 18.0 14.3 21.5





#79

Terphenyl-d14

Concen: 132.741 ng

RT: 12.916 min Scan# 1840

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

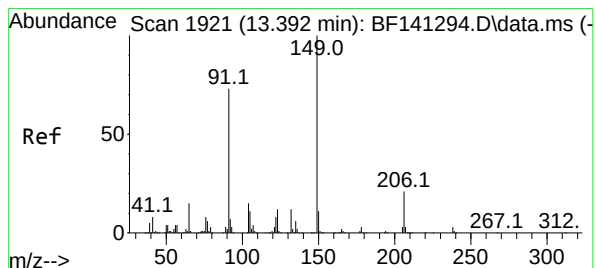
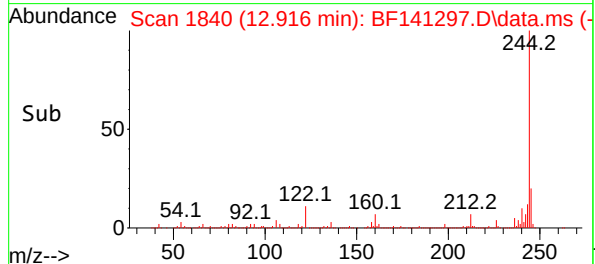
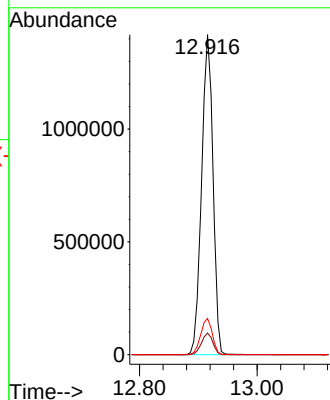
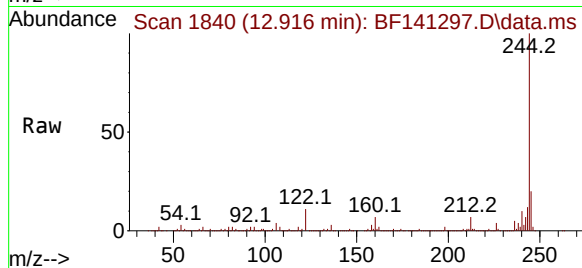
Tgt Ion:244 Resp: 1910783

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

122 11.3 8.8 13.2



#80

Butylbenzylphthalate

Concen: 71.721 ng

RT: 13.392 min Scan# 1921

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

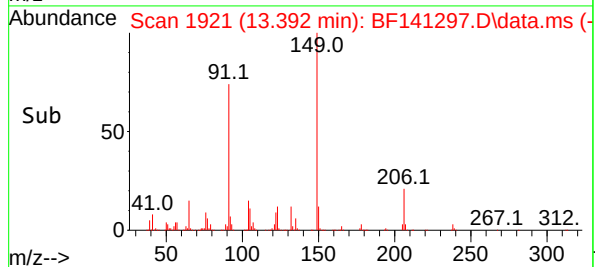
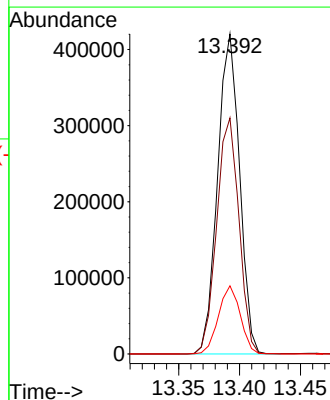
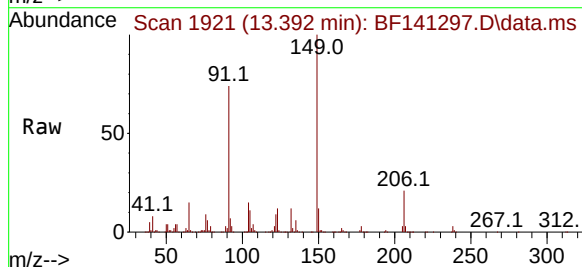
Tgt Ion:149 Resp: 528754

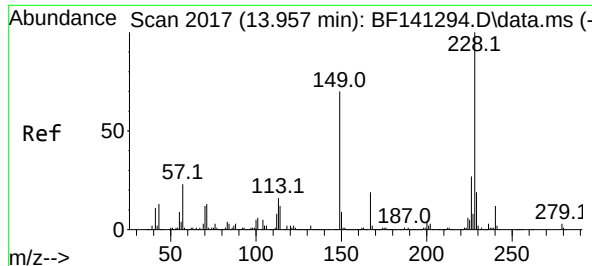
Ion Ratio Lower Upper

149 100

91 73.8 58.6 87.8

206 21.3 16.7 25.1





#81

Benzo(a)anthracene

Concen: 72.323 ng

RT: 13.963 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

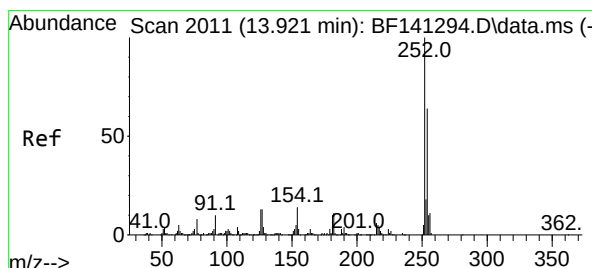
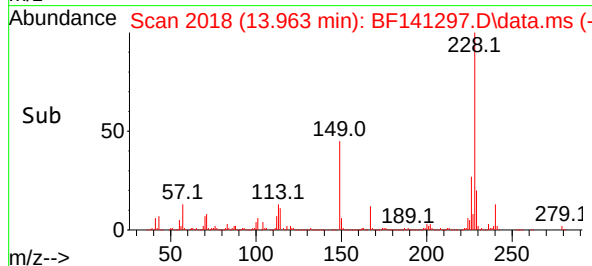
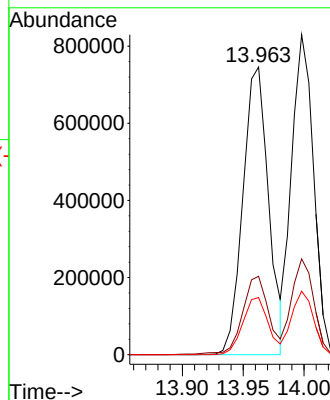
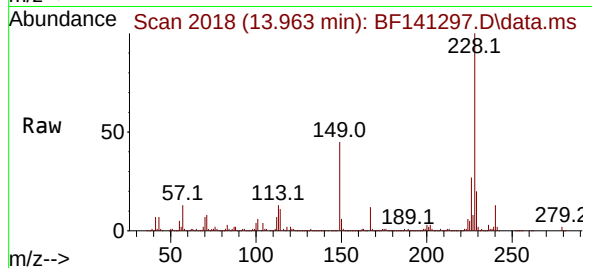
Tgt Ion:228 Resp: 1095972

Ion Ratio Lower Upper

228 100

226 27.2 21.4 32.2

229 19.8 15.5 23.3



#82

3,3'-Dichlorobenzidine

Concen: 82.157 ng

RT: 13.927 min Scan# 2012

Delta R.T. 0.000 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

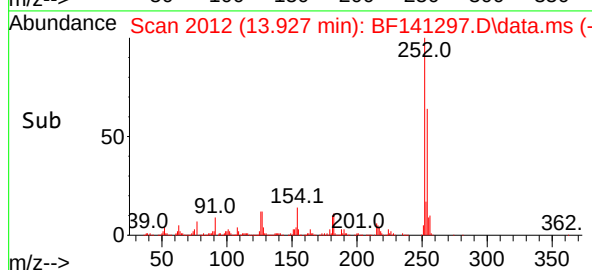
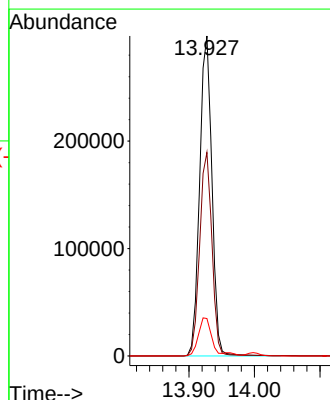
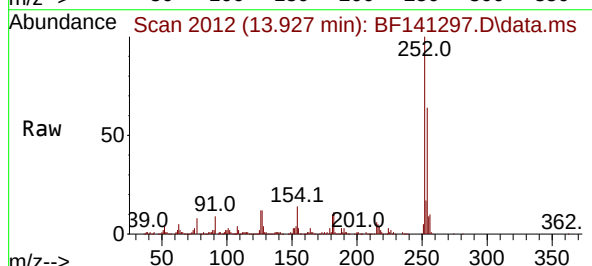
Tgt Ion:252 Resp: 389044

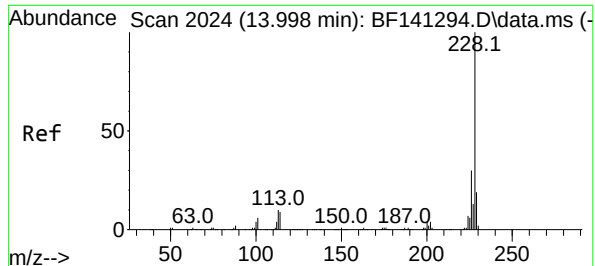
Ion Ratio Lower Upper

252 100

254 63.6 51.3 76.9

126 11.7 10.0 15.0

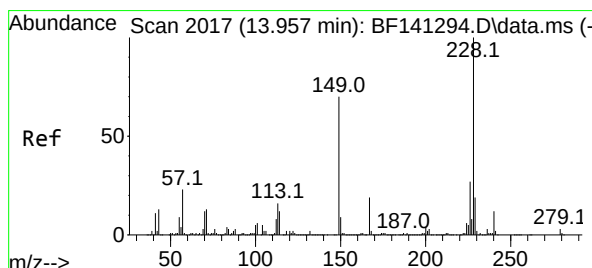
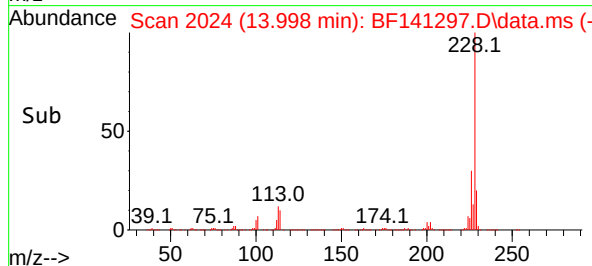
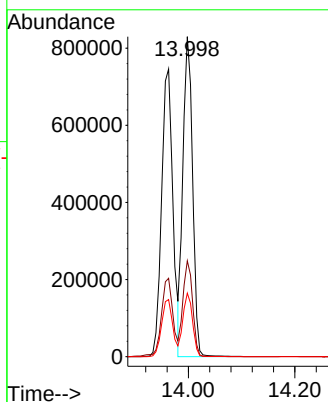
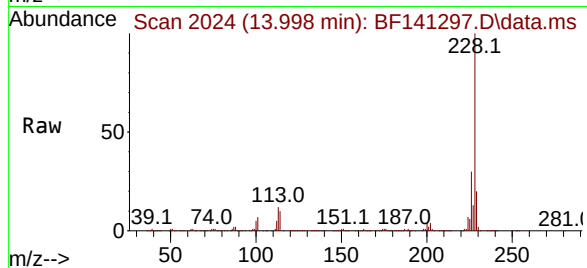




#83
Chrysene
Concen: 75.964 ng
RT: 13.998 min Scan# 20
Delta R.T. -0.006 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

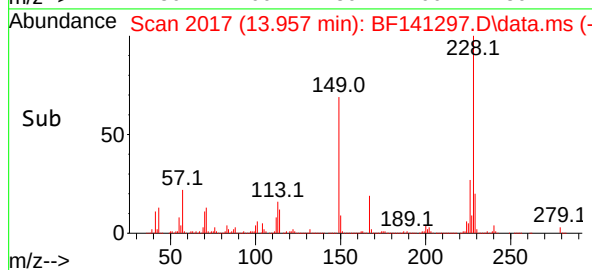
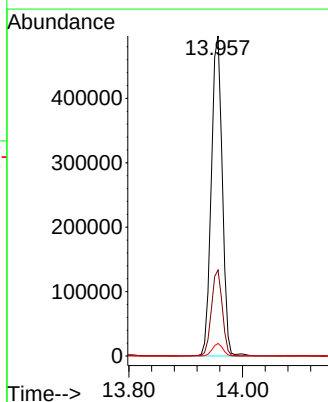
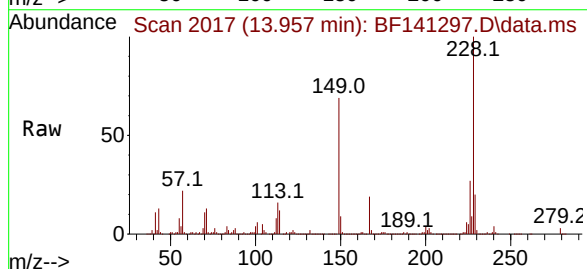
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

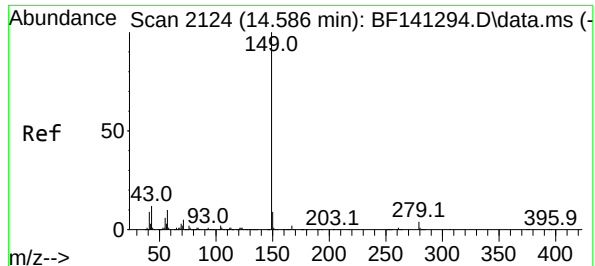
Tgt Ion:228 Resp: 1048083
Ion Ratio Lower Upper
228 100
226 30.0 24.1 36.1
229 19.9 15.6 23.4



#84
Bis(2-ethylhexyl)phthalate
Concen: 70.666 ng
RT: 13.957 min Scan# 2017
Delta R.T. 0.000 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:149 Resp: 662151
Ion Ratio Lower Upper
149 100
167 26.8 21.8 32.8
279 3.9 3.3 4.9

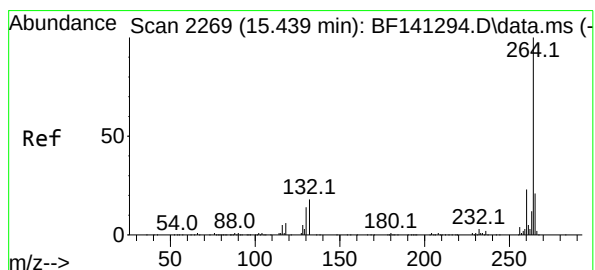
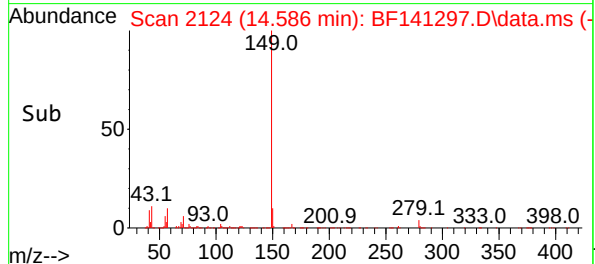
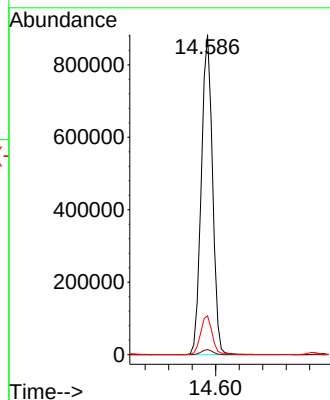
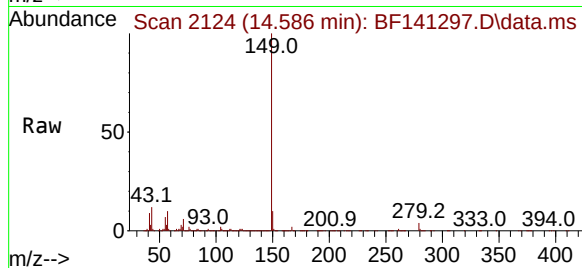




#85
Di-n-octyl phthalate
Concen: 82.148 ng
RT: 14.586 min Scan# 2124
Delta R.T. -0.012 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

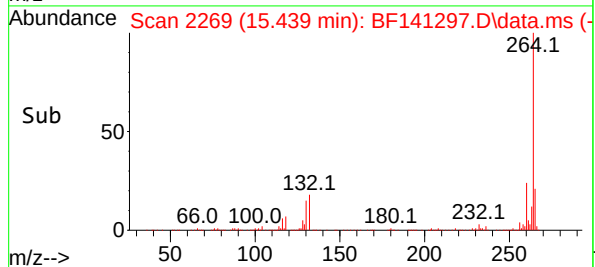
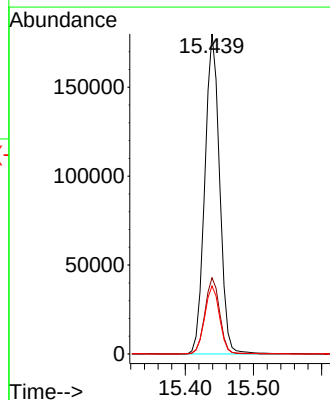
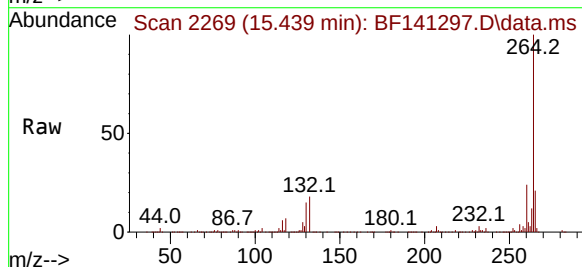
Instrument :
BNA_F
ClientSampleId :
SSTDICC080

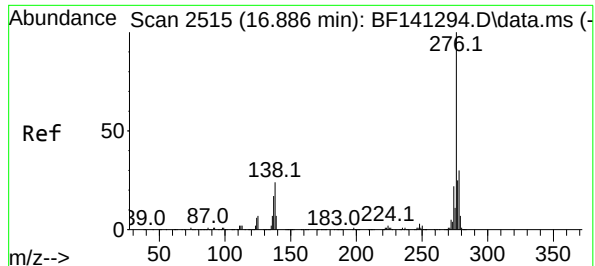
Tgt Ion:149 Resp: 1171131
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 12.7 9.8 14.8



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.439 min Scan# 2269
Delta R.T. -0.012 min
Lab File: BF141297.D
Acq: 29 Jan 2025 17:05

Tgt Ion:264 Resp: 271797
Ion Ratio Lower Upper
264 100
260 23.8 18.6 27.8
265 21.3 16.7 25.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 79.715 ng

RT: 16.898 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDIC080

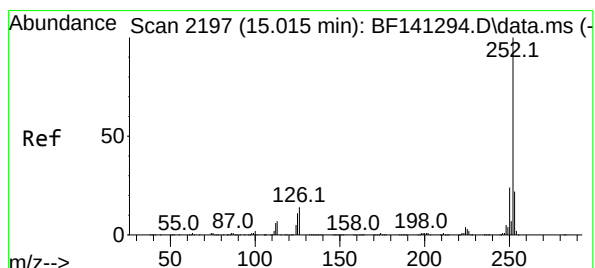
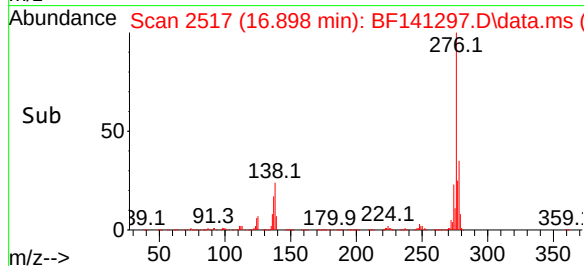
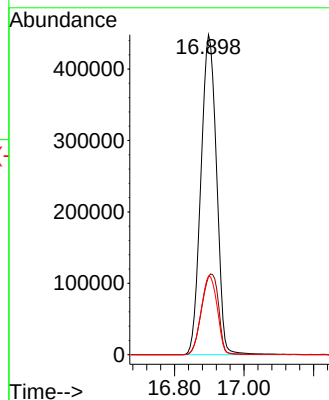
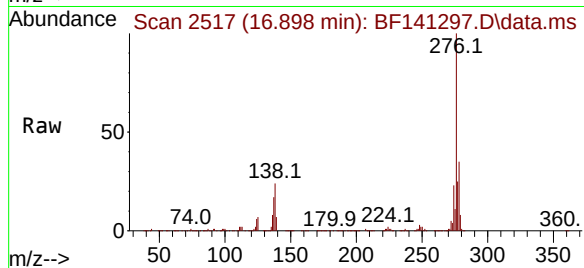
Tgt Ion:276 Resp: 1399119

Ion Ratio Lower Upper

276 100

138 27.3 21.7 32.5

277 25.3 20.3 30.5



#88

Benzo(b)fluoranthene

Concen: 71.102 ng

RT: 15.021 min Scan# 2198

Delta R.T. -0.012 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

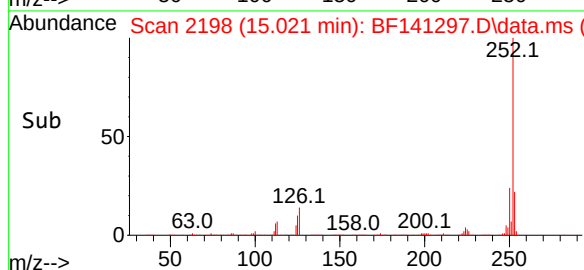
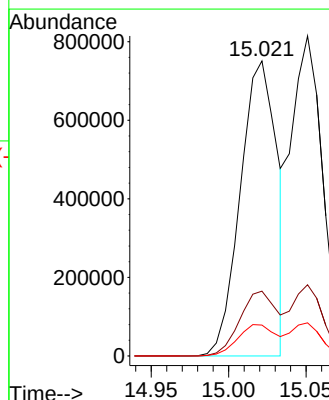
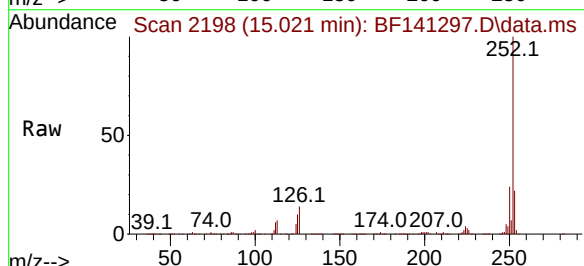
Tgt Ion:252 Resp: 1235245

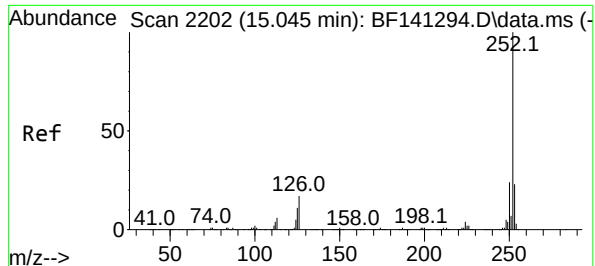
Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.2

125 10.5 8.6 12.8





#89

Benzo(k)fluoranthene

Concen: 75.010 ng

RT: 15.051 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

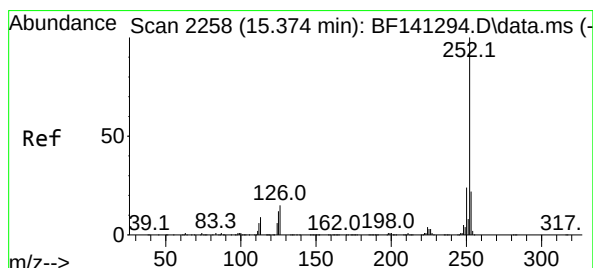
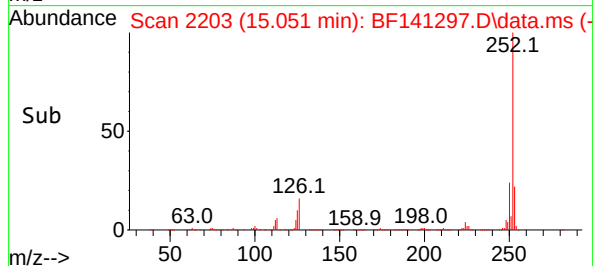
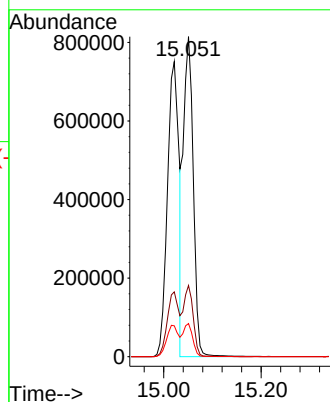
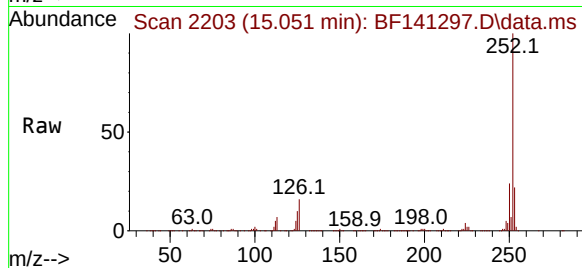
Tgt Ion:252 Resp: 1146296

Ion Ratio Lower Upper

252 100

253 22.3 17.6 26.4

125 10.4 8.4 12.6



#90

Benzo(a)pyrene

Concen: 75.410 ng

RT: 15.380 min Scan# 2259

Delta R.T. -0.012 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

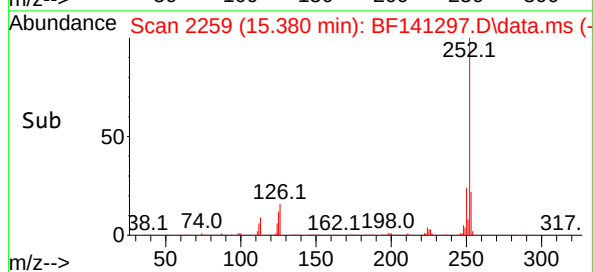
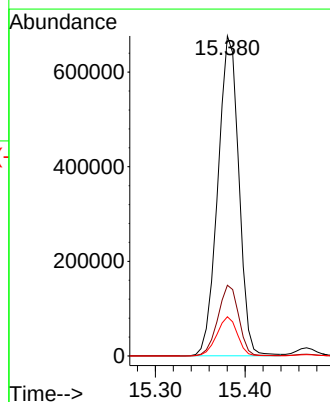
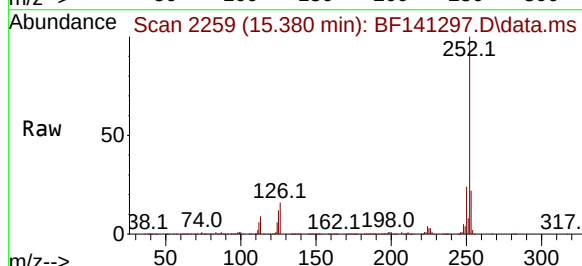
Tgt Ion:252 Resp: 1098491

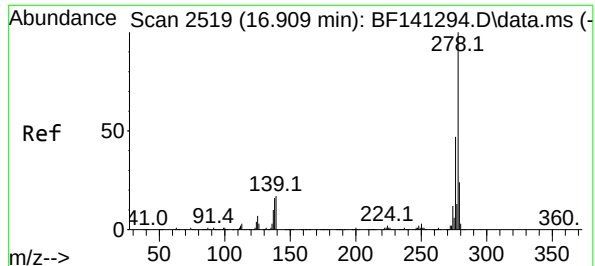
Ion Ratio Lower Upper

252 100

253 22.1 17.2 25.8

125 12.3 9.4 14.2





#91

Dibenzo(a,h)anthracene

Concen: 79.035 ng

RT: 16.921 min Scan# 2521

Delta R.T. -0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

Instrument :

BNA_F

ClientSampleId :

SSTDICC080

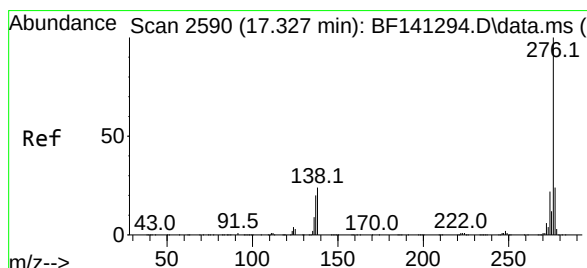
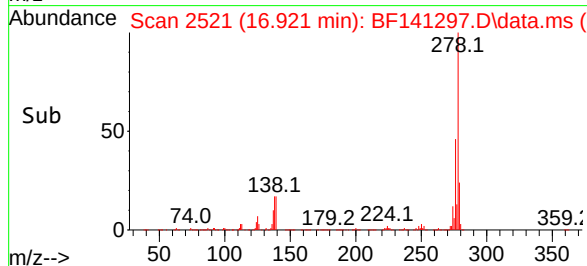
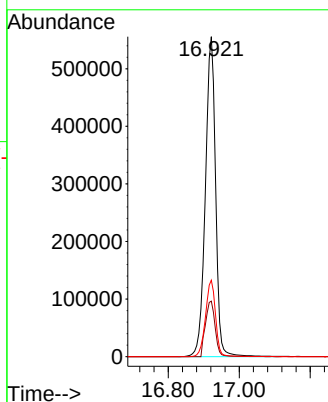
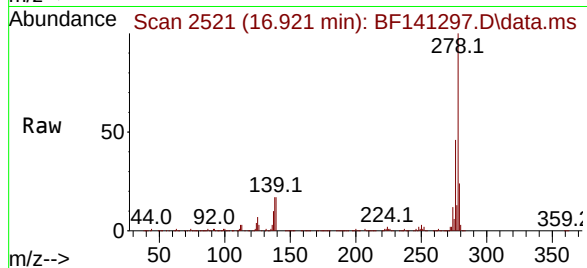
Tgt Ion:278 Resp: 1117397

Ion Ratio Lower Upper

278 100

139 17.3 13.9 20.9

279 23.9 18.8 28.2



#92

Benzo(g,h,i)perylene

Concen: 78.512 ng

RT: 17.345 min Scan# 2593

Delta R.T. -0.006 min

Lab File: BF141297.D

Acq: 29 Jan 2025 17:05

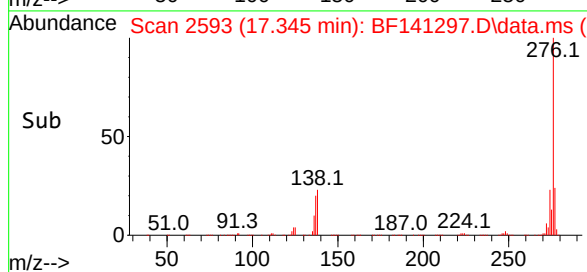
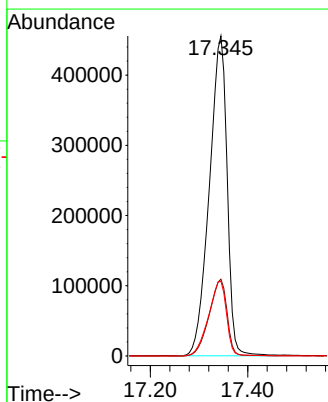
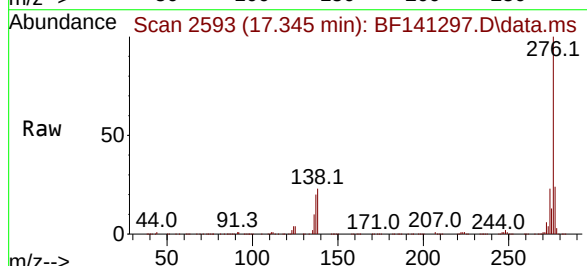
Tgt Ion:276 Resp: 1155250

Ion Ratio Lower Upper

276 100

277 24.0 19.2 28.8

138 23.4 19.0 28.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
 Data File : BF141298.D
 Acq On : 29 Jan 2025 17:31
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

ICVBF012925

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 30 03:16:08 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 17:41:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	133318	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	525644	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	279764	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	450291	20.000	ng	0.00
76) Chrysene-d12	13.969	240	257177	20.000	ng	0.00
86) Perylene-d12	15.421	264	279455	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	650985	74.963	ng	0.00
7) Phenol-d6	6.428	99	824574	74.641	ng	-0.01
23) Nitrobenzene-d5	7.363	82	754118	75.630	ng	0.00
42) 2,4,6-Tribromophenol	10.628	330	192773	75.161	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	1325725	72.938	ng	0.00
79) Terphenyl-d14	12.910	244	1208358	72.460	ng	0.00
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.487	88	142440	37.296	ng	100
3) Pyridine	3.216	79	353478	38.413	ng	100
4) n-Nitrosodimethylamine	3.169	42	199637	37.977	ng	100
6) Aniline	6.463	93	368792	39.437	ng	99
8) 2-Chlorophenol	6.581	128	349085	37.505	ng	99
9) Benzaldehyde	6.346	77	236537	36.965	ng	100
10) Phenol	6.440	94	443695	37.888	ng	99
11) bis(2-Chloroethyl)ether	6.534	93	335702	37.387	ng	100
12) 1,3-Dichlorobenzene	6.740	146	382682	37.288	ng	99
13) 1,4-Dichlorobenzene	6.816	146	390597	37.885	ng	99
14) 1,2-Dichlorobenzene	6.969	146	359529	37.241	ng	100
15) Benzyl Alcohol	6.940	79	286519	37.952	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.075	45	587637	37.636	ng	100
17) 2-Methylphenol	7.051	107	276450	36.544	ng	99
18) Hexachloroethane	7.310	117	144890	38.094	ng	99
19) n-Nitroso-di-n-propyla...	7.210	70	241878	36.848	ng	100
20) 3+4-Methylphenols	7.204	107	347046	37.364	ng	99
22) Acetophenone	7.210	105	458757	36.717	ng	100
24) Nitrobenzene	7.381	77	391907	37.927	ng	99
25) Isophorone	7.622	82	645309	37.439	ng	100
26) 2-Nitrophenol	7.698	139	186592	38.289	ng	99
27) 2,4-Dimethylphenol	7.734	122	236052m	38.055	ng	
28) bis(2-Chloroethoxy)met...	7.834	93	411851	37.460	ng	99
29) 2,4-Dichlorophenol	7.940	162	286090	37.675	ng	99
30) 1,2,4-Trichlorobenzene	8.022	180	316431	36.488	ng	100
31) Naphthalene	8.104	128	1030995	37.128	ng	100
32) Benzoic acid	7.845	122	236833	41.534	ng	99
33) 4-Chloroaniline	8.151	127	350423	37.214	ng	99
34) Hexachlorobutadiene	8.222	225	186523	36.676	ng	99
35) Caprolactam	8.522	113	93403	37.662	ng	97
36) 4-Chloro-3-methylphenol	8.634	107	305288	37.480	ng	99
37) 2-Methylnaphthalene	8.792	142	651222	36.898	ng	99
38) 1-Methylnaphthalene	8.892	142	651341	37.570	ng	99
40) 1,2,4,5-Tetrachloroben...	8.957	216	296277	37.226	ng	99
41) Hexachlorocyclopentadiene	8.945	237	93930	39.961	ng	98
43) 2,4,6-Trichlorophenol	9.069	196	201214	38.625	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
 Data File : BF141298.D
 Acq On : 29 Jan 2025 17:31
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

ICVBF012925

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025

Quant Time: Jan 30 03:16:08 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 17:41:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	209611	36.969	ng	100
46) 1,1'-Biphenyl	9.257	154	809694	37.111	ng	100
47) 2-Chloronaphthalene	9.281	162	626457	36.837	ng	100
48) 2-Nitroaniline	9.381	65	203104	37.970	ng	98
49) Acenaphthylene	9.698	152	890709	37.416	ng	100
50) Dimethylphthalate	9.563	163	697300	36.904	ng	100
51) 2,6-Dinitrotoluene	9.622	165	164343	37.459	ng	99
52) Acenaphthene	9.869	154	632756	37.206	ng	99
53) 3-Nitroaniline	9.792	138	164042	38.150	ng	98
54) 2,4-Dinitrophenol	9.892	184	81034	39.734	ng #	85
55) Dibenzofuran	10.045	168	842555	37.012	ng	100
56) 4-Nitrophenol	9.945	139	122925	39.089	ng	99
57) 2,4-Dinitrotoluene	10.022	165	217705	38.327	ng	99
58) Fluorene	10.386	166	643639	36.451	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.163	232	169067	37.902	ng	99
60) Diethylphthalate	10.263	149	683674	37.316	ng	99
61) 4-Chlorophenyl-phenyle...	10.381	204	312065	36.180	ng	99
62) 4-Nitroaniline	10.404	138	159227	37.665	ng	99
63) Azobenzene	10.539	77	678905	37.020	ng	100
65) 4,6-Dinitro-2-methylph...	10.433	198	111635	41.913	ng	99
66) n-Nitrosodiphenylamine	10.498	169	564452	38.757	ng	99
67) 4-Bromophenyl-phenylether	10.869	248	199009	39.477	ng	98
68) Hexachlorobenzene	10.933	284	208171	38.929	ng	99
69) Atrazine	11.028	200	190958	39.215	ng	99
70) Pentachlorophenol	11.128	266	128300	40.973	ng	99
71) Phenanthrene	11.351	178	922625	38.117	ng	100
72) Anthracene	11.398	178	912703	38.484	ng	100
73) Carbazole	11.557	167	813036	38.661	ng	100
74) Di-n-butylphthalate	11.892	149	984759	38.639	ng	100
75) Fluoranthene	12.539	202	902637	37.768	ng	100
77) Benzidine	12.663	184	405163	49.142	ng	99
78) Pyrene	12.769	202	894269	36.225	ng	99
80) Butylbenzylphthalate	13.392	149	324793	37.660	ng	99
81) Benzo(a)anthracene	13.957	228	631556	35.587	ng	99
82) 3,3'-Dichlorobenzidine	13.921	252	218850	38.774	ng	99
83) Chrysene	13.992	228	610038	37.508	ng	100
84) Bis(2-ethylhexyl)phtha...	13.951	149	400642	36.620	ng	100
85) Di-n-octyl phthalate	14.569	149	642439	37.807	ng	99
87) Indeno(1,2,3-cd)pyrene	16.868	276	678653	37.626	ng	99
88) Benzo(b)fluoranthene	14.998	252	683111	38.861	ng	100
89) Benzo(k)fluoranthene	15.027	252	556960	35.766	ng	99
90) Benzo(a)pyrene	15.363	252	567574	38.209	ng	99
91) Dibenzo(a,h)anthracene	16.886	278	551534	38.007	ng	99
92) Benzo(g,h,i)perylene	17.304	276	559807	37.101	ng	99

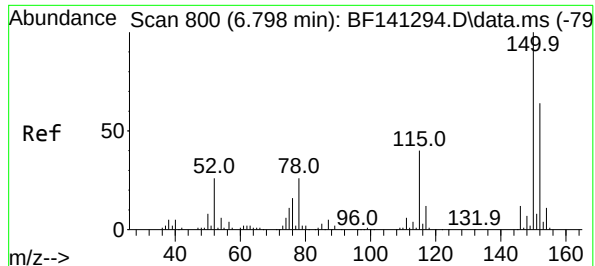
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Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Manual Integrations

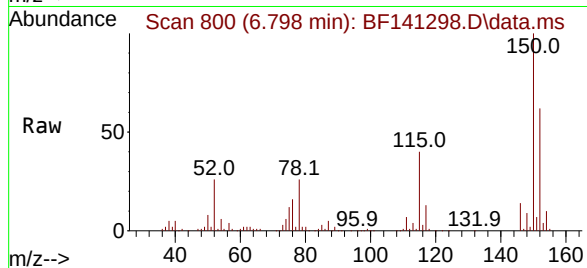
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

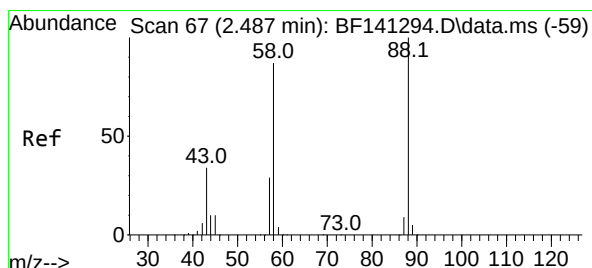
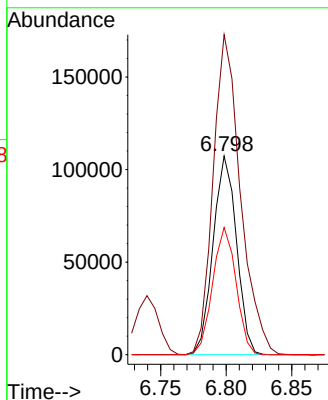
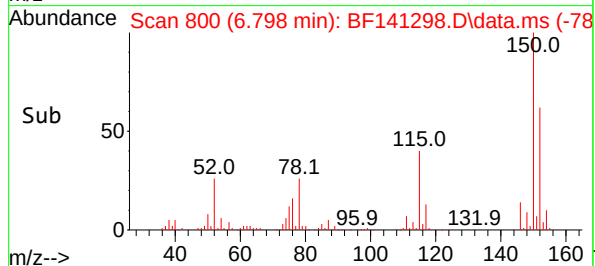
Instrument :
BNA_F
Client Sample Id :
ICVBF012925



Tgt Ion: 152 Resp: 133318
Ion Ratio Lower Upper
152 100
150 161.0 125.9 188.9
115 64.0 49.7 74.5

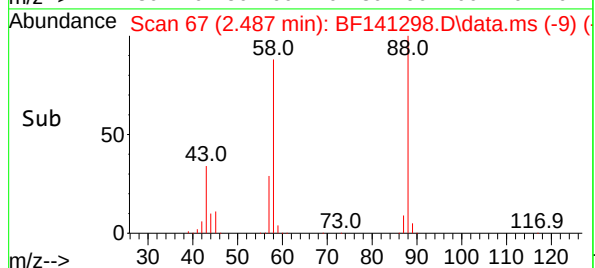
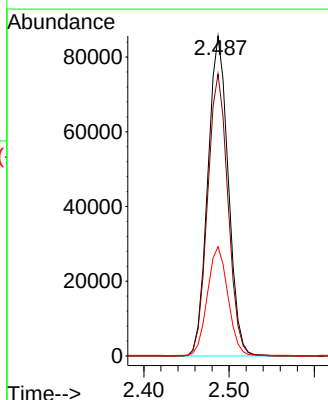
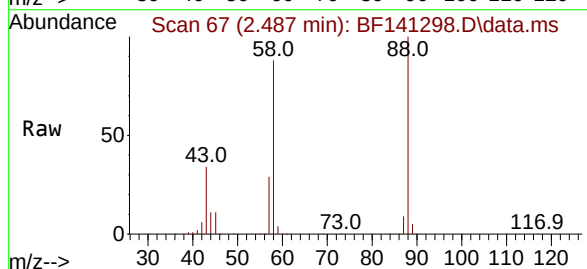
Manual Integrations
APPROVED

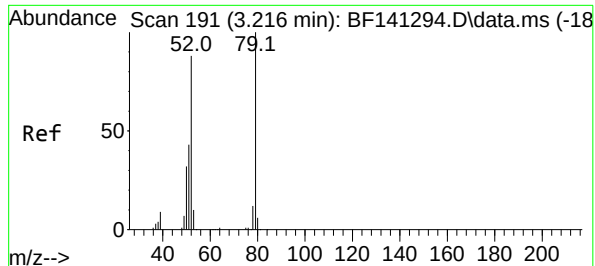
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#2
1,4-Dioxane
Concen: 37.296 ng
RT: 2.487 min Scan# 67
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

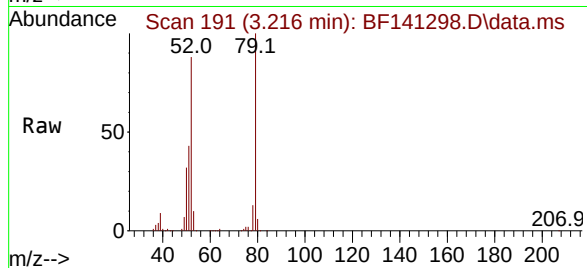
Tgt Ion: 88 Resp: 142440
Ion Ratio Lower Upper
88 100
58 87.8 70.2 105.4
43 34.7 27.6 41.4





#3
Pyridine
Concen: 38.413 ng
RT: 3.216 min Scan# 191
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

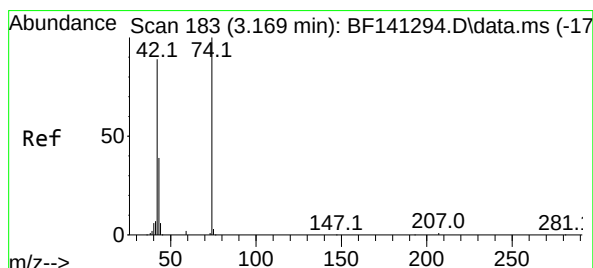
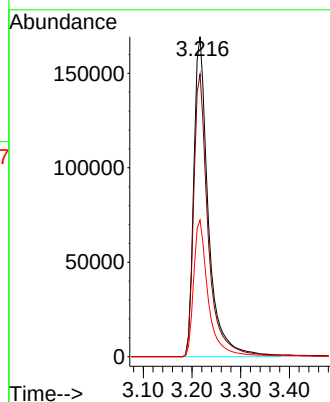
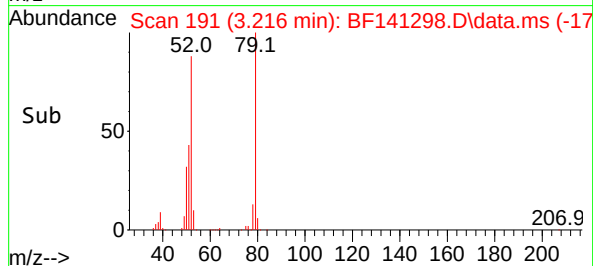
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



Tgt Ion: 79 Resp: 353478
Ion Ratio Lower Upper
79 100
52 88.3 70.3 105.5
51 42.7 34.3 51.5

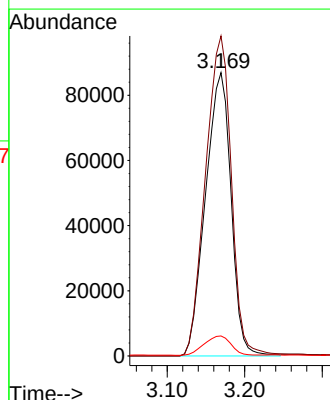
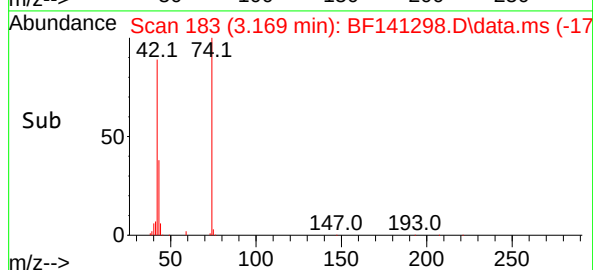
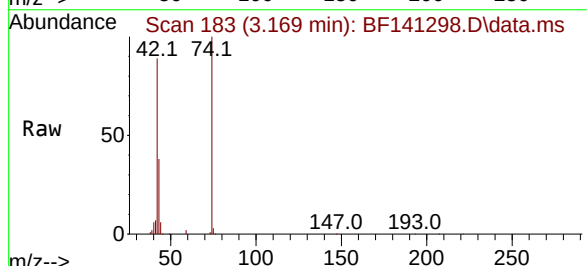
Manual Integrations
APPROVED

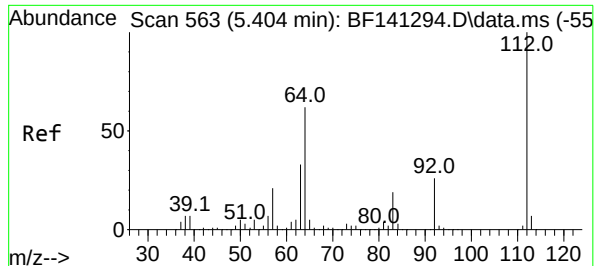
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#4
n-Nitrosodimethylamine
Concen: 37.977 ng
RT: 3.169 min Scan# 183
Delta R.T. -0.029 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 42 Resp: 199637
Ion Ratio Lower Upper
42 100
74 112.9 90.3 135.5
44 7.1 5.7 8.5





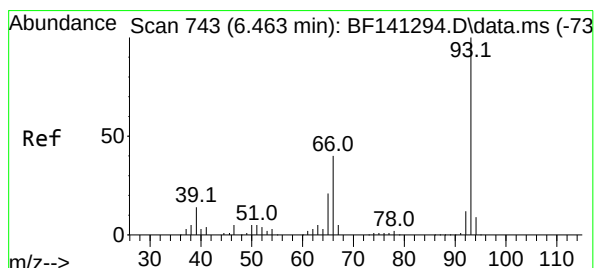
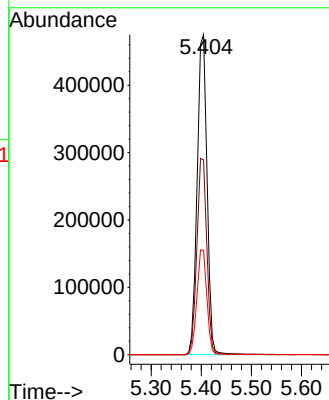
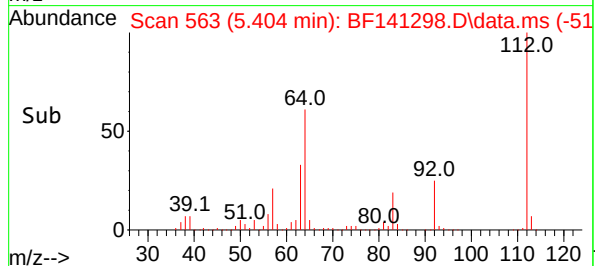
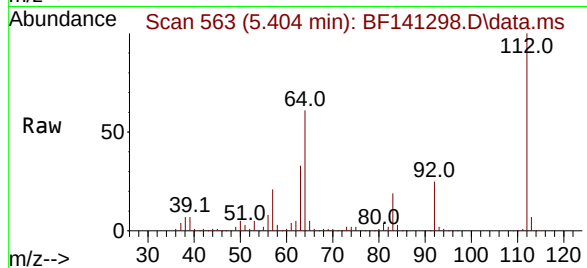
#5
2-Fluorophenol
Concen: 74.963 ng
RT: 5.404 min Scan# 509
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Tgt Ion:112 Resp: 65098
Ion Ratio Lower Upper
112 100
64 60.9 49.8 74.8
63 32.6 26.1 39.1

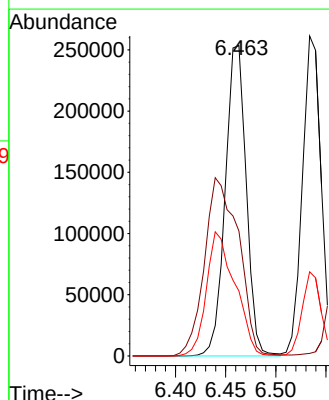
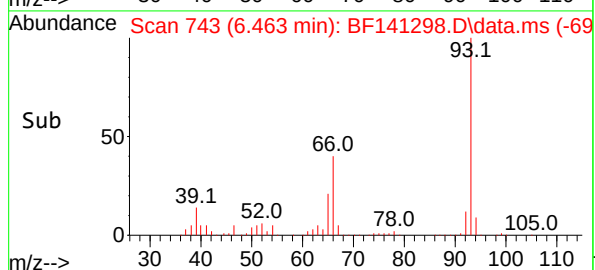
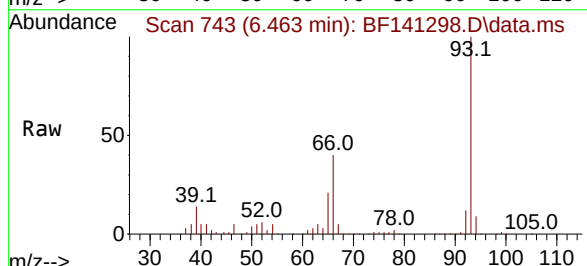
Manual Integrations
APPROVED

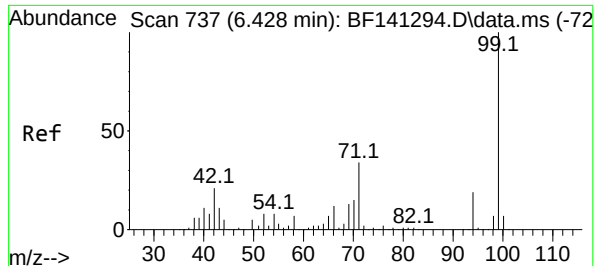
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#6
Aniline
Concen: 39.437 ng
RT: 6.463 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion: 93 Resp: 368792
Ion Ratio Lower Upper
93 100
66 40.3 32.5 48.7
65 20.9 17.0 25.6





#7

Phenol-d6

Concen: 74.641 ng

RT: 6.428 min Scan# 71

Delta R.T. -0.012 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

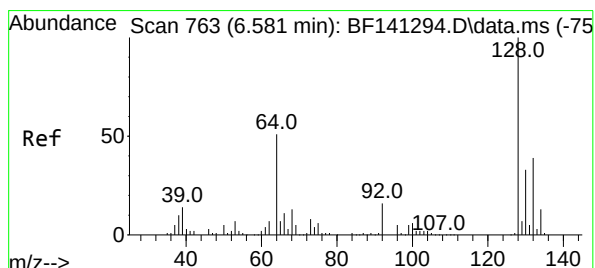
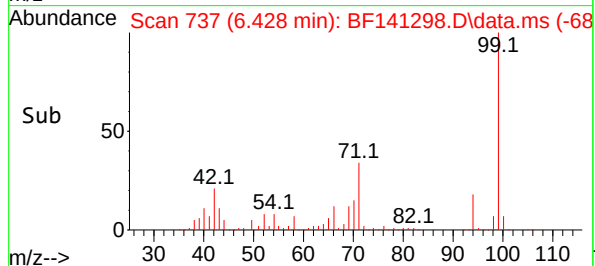
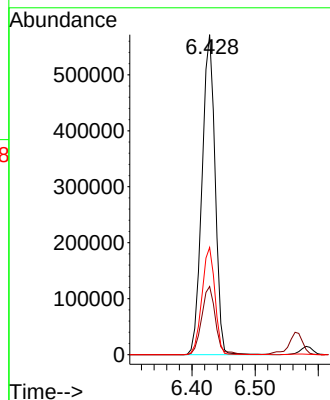
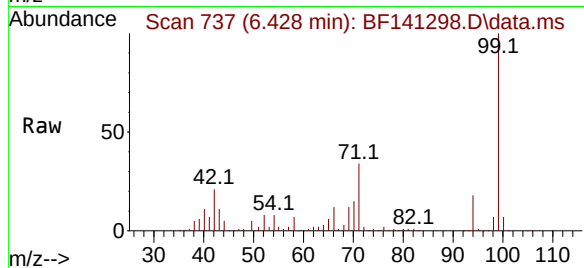
ClientSampleId :

ICVBF012925

Tgt Ion:	99	Resp:	824574
Ion	Ratio	Lower	Upper
99	100		
42	21.3	17.1	25.7
71	33.5	26.9	40.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#8

2-Chlorophenol

Concen: 37.505 ng

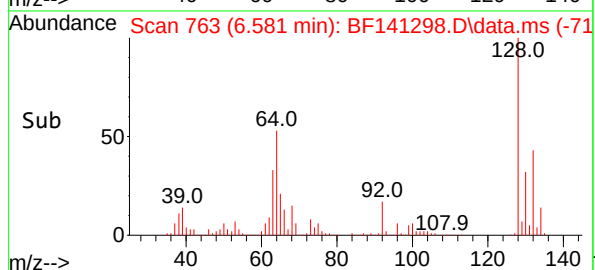
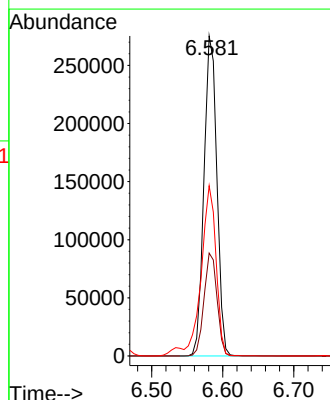
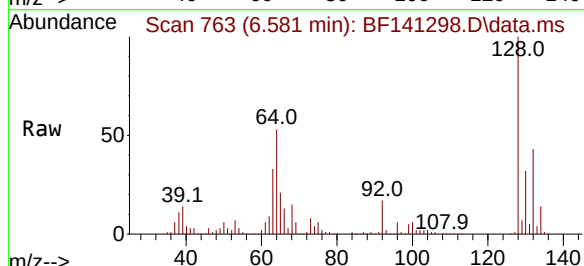
RT: 6.581 min Scan# 763

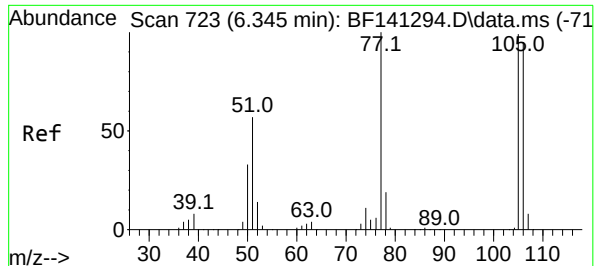
Delta R.T. -0.012 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Tgt Ion:	128	Resp:	349085
Ion	Ratio	Lower	Upper
128	100		
130	32.1	12.5	52.5
64	53.2	32.9	72.9





#9
Benzaldehyde

Concen: 36.965 ng

RT: 6.346 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

ICVBF012925

Tgt Ion: 77 Resp: 23653

Ion Ratio Lower Upper

77 100

105 99.5 79.4 119.4

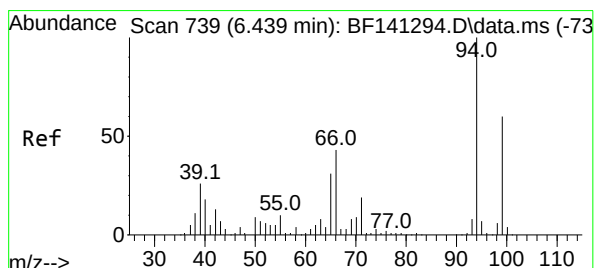
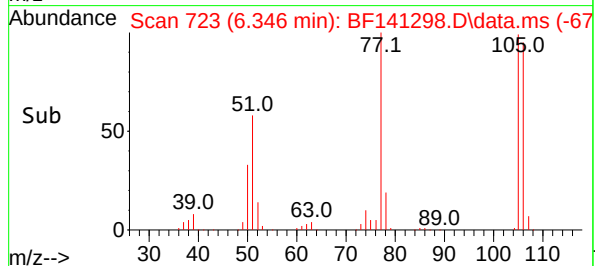
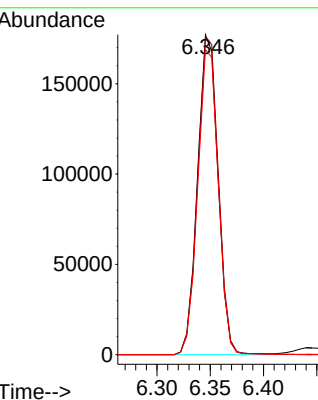
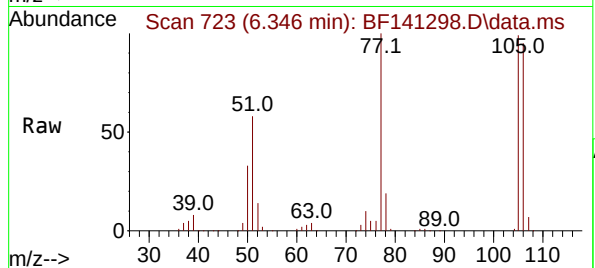
106 95.3 74.6 114.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#10

Phenol

Concen: 37.888 ng

RT: 6.440 min Scan# 739

Delta R.T. -0.012 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

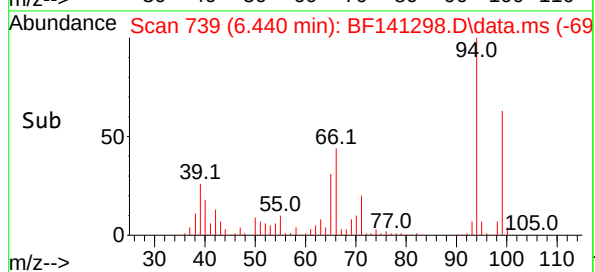
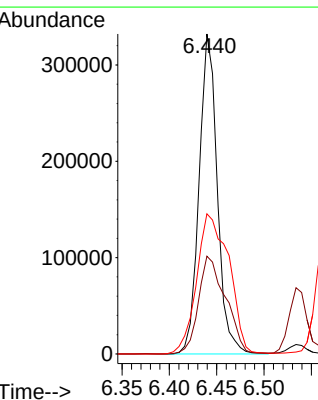
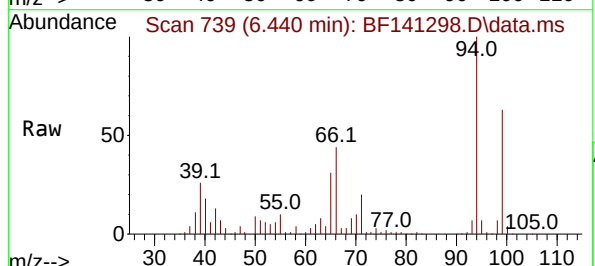
Tgt Ion: 94 Resp: 443695

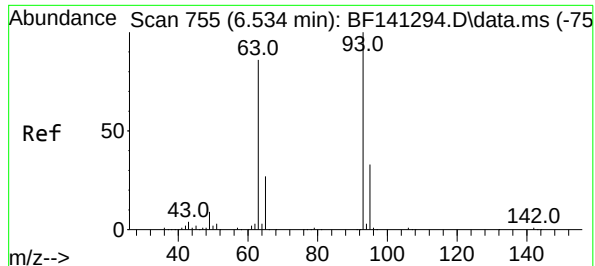
Ion Ratio Lower Upper

94 100

65 30.5 10.8 50.8

66 43.8 23.3 63.3





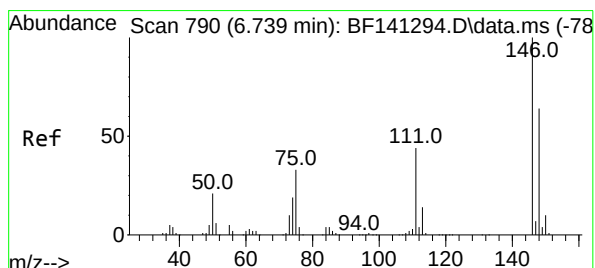
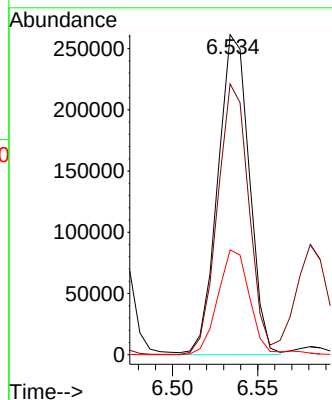
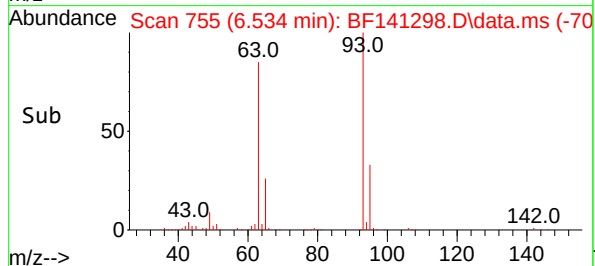
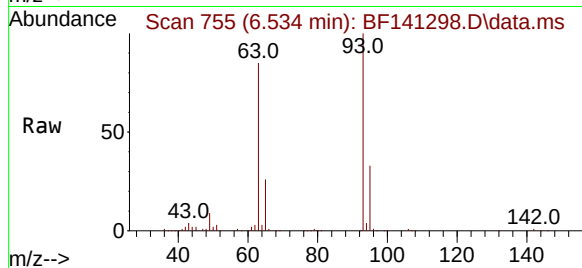
#11
bis(2-Chloroethyl)ether
Concen: 37.387 ng
RT: 6.534 min Scan# 755
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Tgt Ion: 93 Resp: 33570
Ion Ratio Lower Upper
93 100
63 84.6 65.0 105.0
95 32.8 12.4 52.4

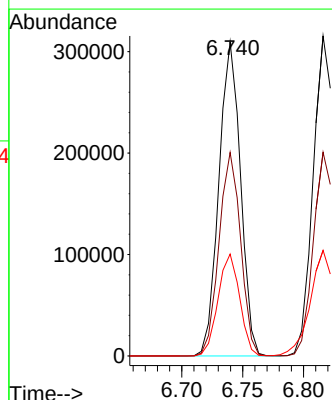
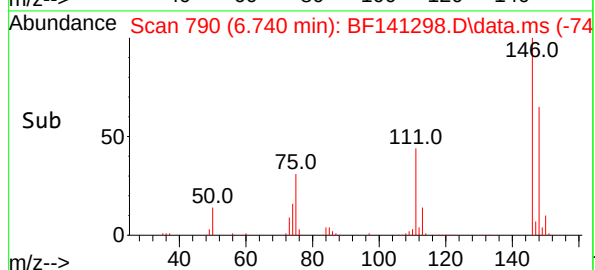
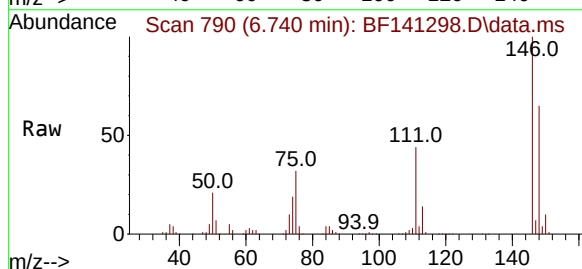
Manual Integrations
APPROVED

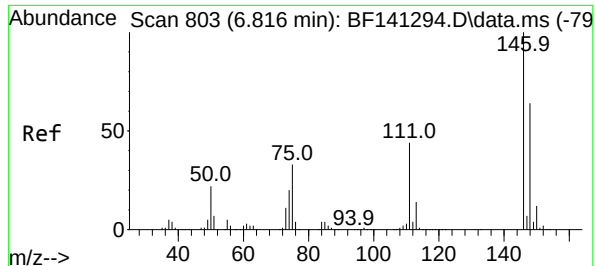
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#12
1,3-Dichlorobenzene
Concen: 37.288 ng
RT: 6.740 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:146 Resp: 382682
Ion Ratio Lower Upper
146 100
148 64.8 51.2 76.8
75 32.4 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 37.885 ng

RT: 6.816 min Scan# 803

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

ICVBF012925

Tgt Ion:146 Resp: 39059

Ion Ratio Lower Upper

146 100

148 63.6 51.2 76.8

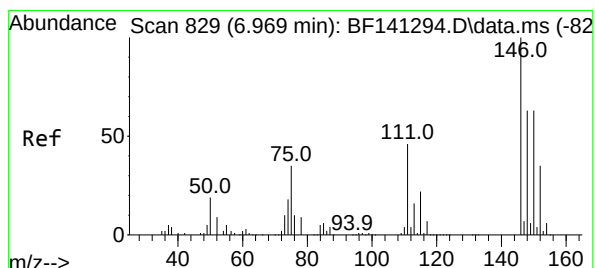
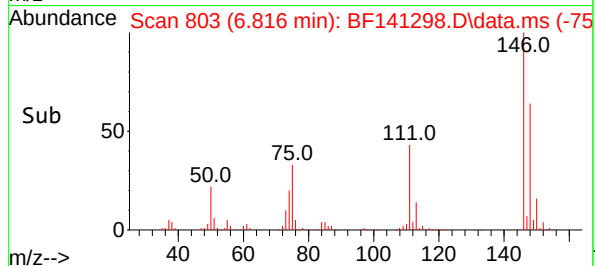
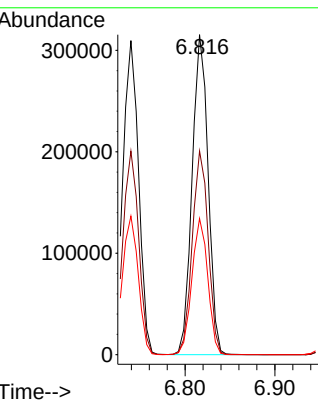
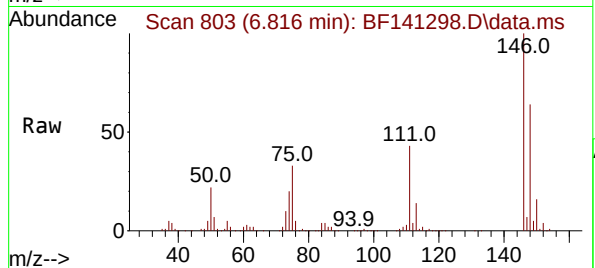
111 42.5 35.0 52.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#14

1,2-Dichlorobenzene

Concen: 37.241 ng

RT: 6.969 min Scan# 829

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

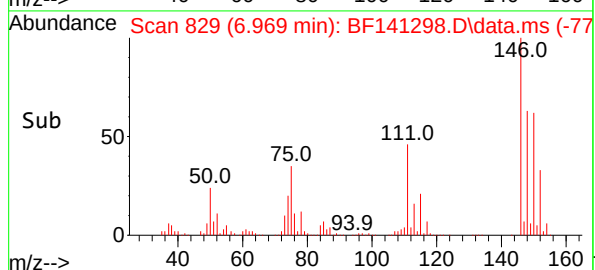
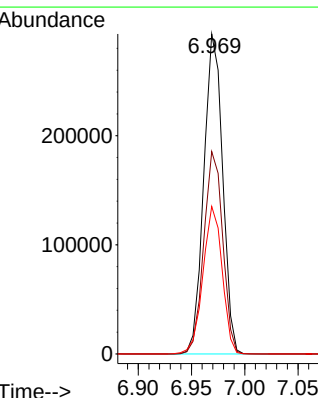
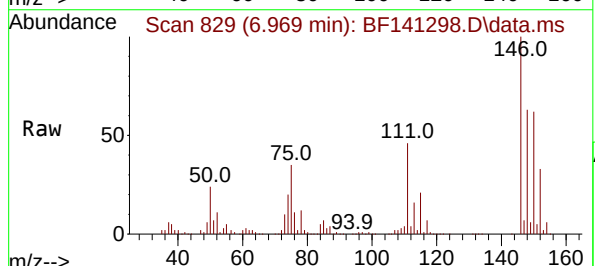
Tgt Ion:146 Resp: 359529

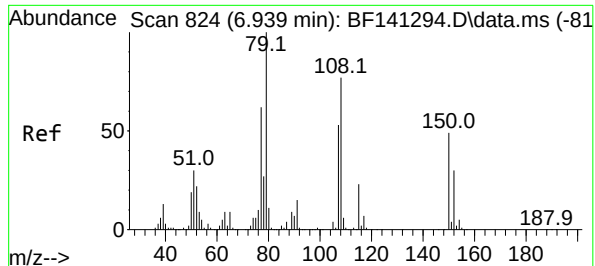
Ion Ratio Lower Upper

146 100

148 63.3 50.5 75.7

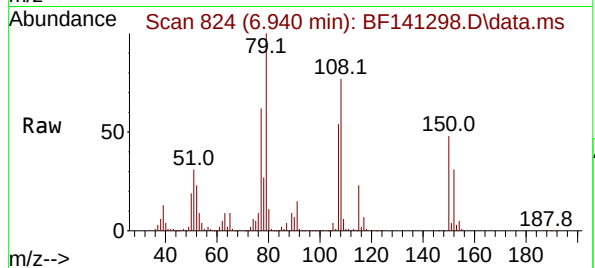
111 46.1 36.6 55.0





#15
Benzyl Alcohol
Concen: 37.952 ng
RT: 6.940 min Scan# 824
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

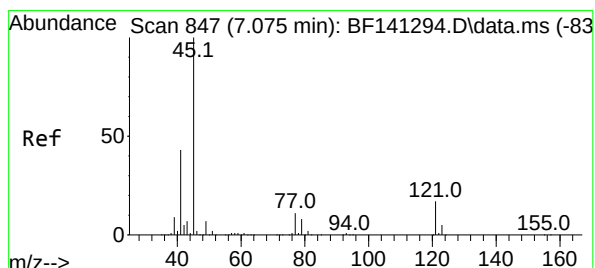
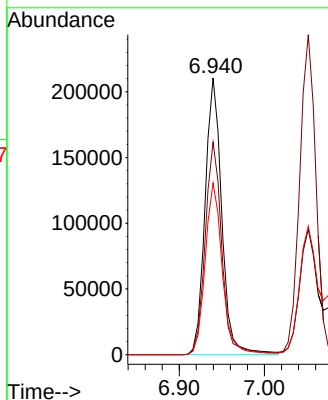
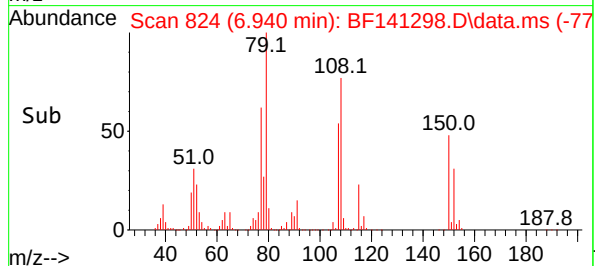
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



Tgt Ion: 79 Resp: 286519
Ion Ratio Lower Upper
79 100
108 76.8 61.4 92.0
77 62.0 49.9 74.9

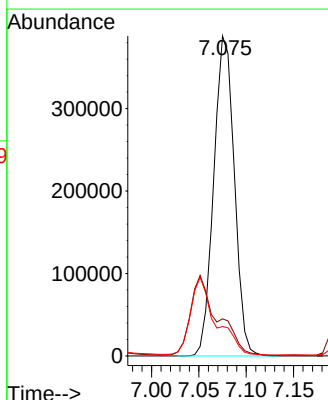
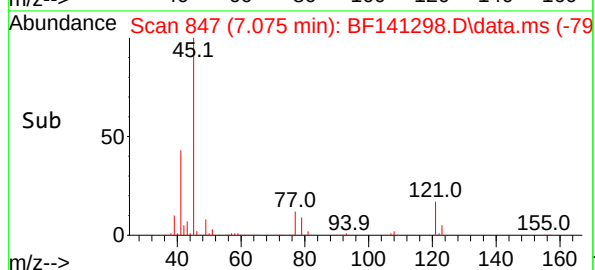
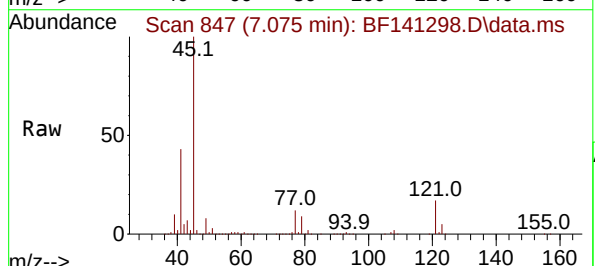
Manual Integrations
APPROVED

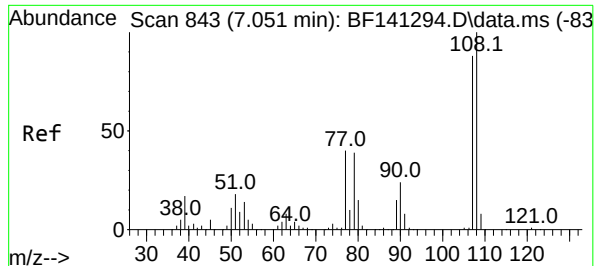
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#16
2,2'-oxybis(1-chloropropane)
Concen: 37.636 ng
RT: 7.075 min Scan# 847
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

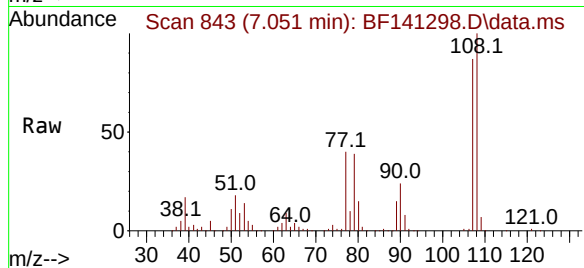
Tgt Ion: 45 Resp: 587637
Ion Ratio Lower Upper
45 100
77 11.6 0.0 31.8
79 9.2 0.0 29.1





#17
2-Methylphenol
Concen: 36.544 ng
RT: 7.051 min Scan# 843
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

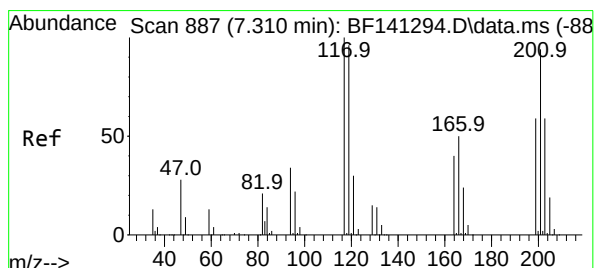
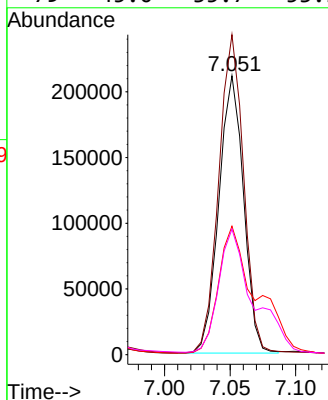
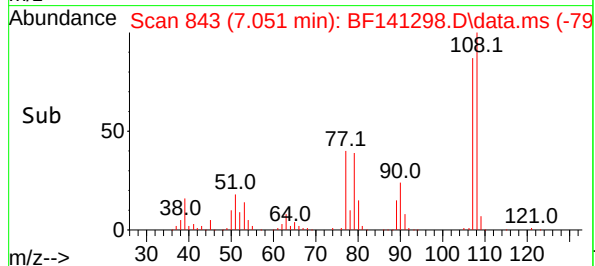
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



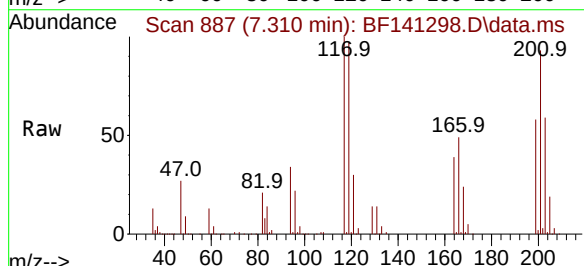
Tgt Ion:107 Resp: 276450
Ion Ratio Lower Upper
107 100
108 114.8 90.8 136.2
77 46.1 36.2 54.4
79 45.0 35.7 53.5

Manual Integrations
APPROVED

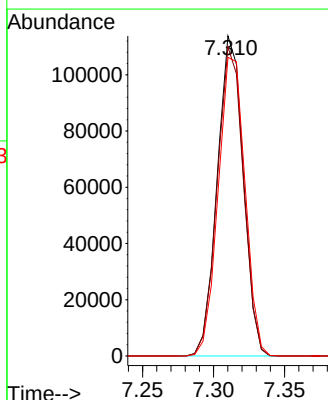
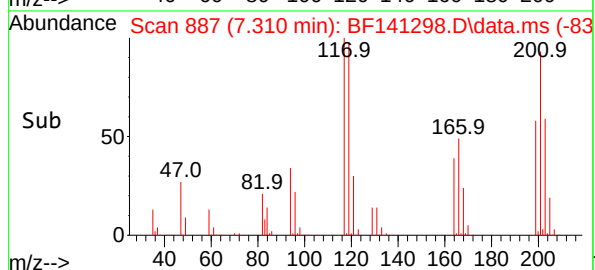
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

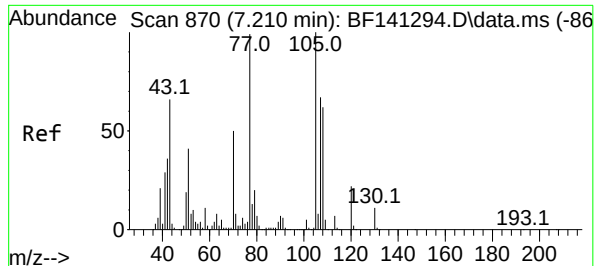


#18
Hexachloroethane
Concen: 38.094 ng
RT: 7.310 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31



Tgt Ion:117 Resp: 144890
Ion Ratio Lower Upper
117 100
119 96.6 76.6 114.8
201 93.3 74.8 112.2





#19

n-Nitroso-di-n-propylamine

Concen: 36.848 ng

RT: 7.210 min Scan# 870

Delta R.T. -0.018 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

ICVBF012925

Tgt Ion: 70 Resp: 241878

Ion Ratio Lower Upper

70 100

42 71.3 56.8 85.2

101 9.8 7.7 11.5

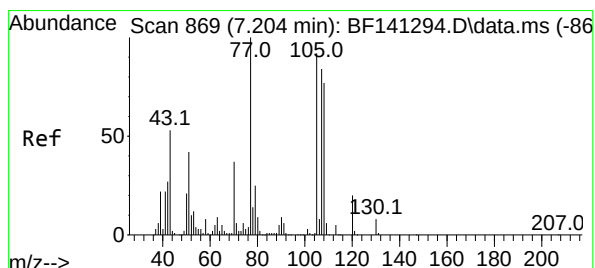
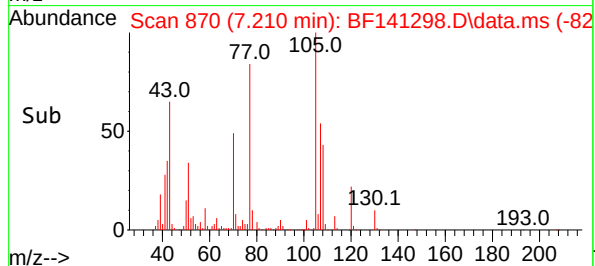
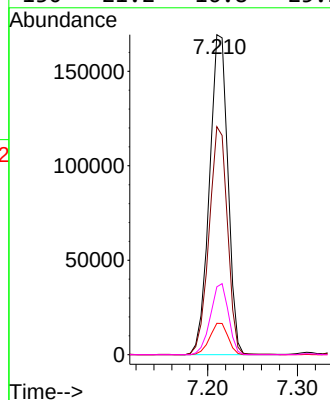
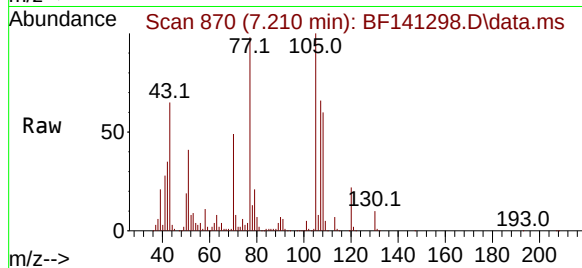
130 21.2 16.8 25.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#20

3+4-Methylphenols

Concen: 37.364 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Tgt Ion:107 Resp: 347046

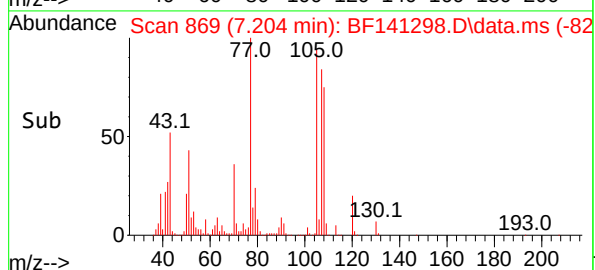
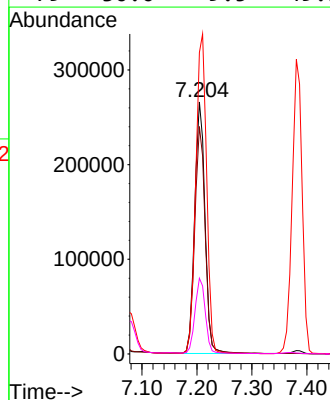
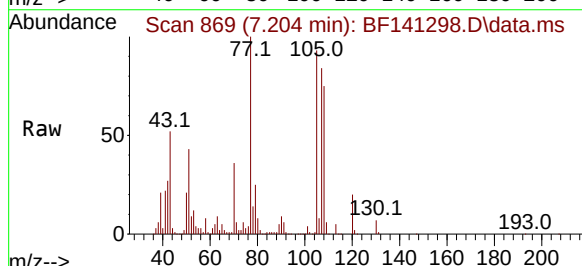
Ion Ratio Lower Upper

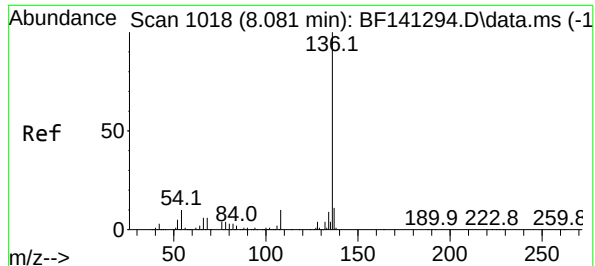
107 100

108 90.2 70.9 110.9

77 119.7 98.5 138.5

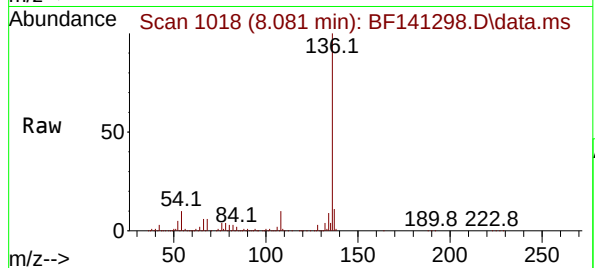
79 30.0 9.5 49.5





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

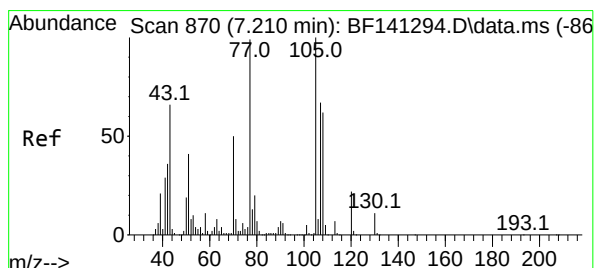
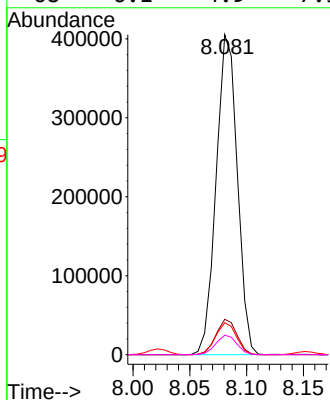
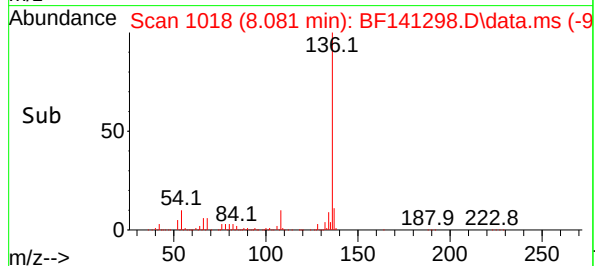
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



Tgt Ion:	136	Resp:	52564
Ion Ratio	Lower	Upper	
136	100		
137	11.0	8.6	13.0
54	10.0	7.8	11.8
68	6.1	4.9	7.3

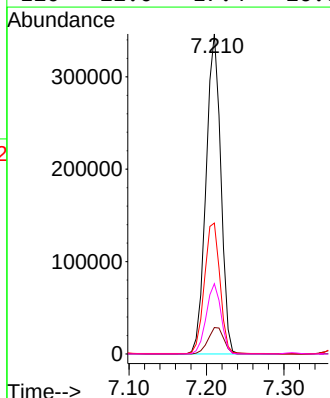
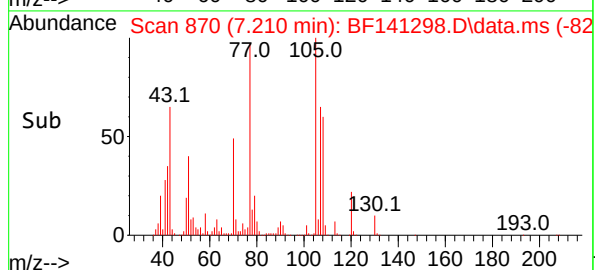
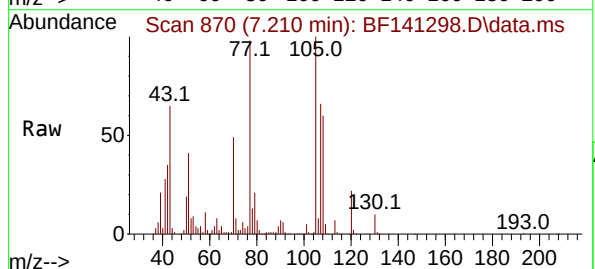
Manual Integrations
APPROVED

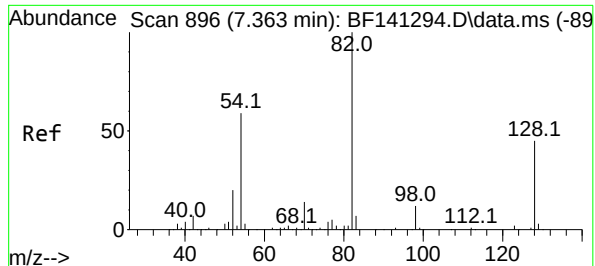
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#22
Acetophenone
Concen: 36.717 ng
RT: 7.210 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:	105	Resp:	458757
Ion Ratio	Lower	Upper	
105	100		
71	8.3	6.8	10.2
51	40.9	32.6	49.0
120	22.0	17.4	26.0





#23

Nitrobenzene-d5

Concen: 75.630 ng

RT: 7.363 min Scan# 896

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

ICVBF012925

Tgt Ion: 82 Resp: 754118

Ion Ratio Lower Upper

82 100

128 44.2 35.7 53.5

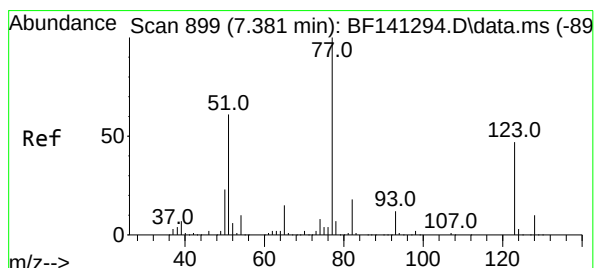
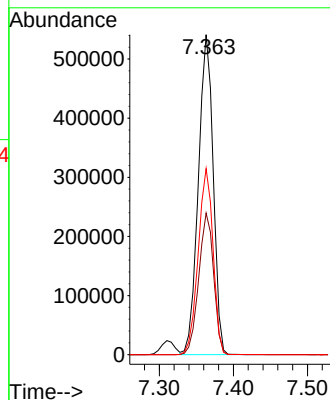
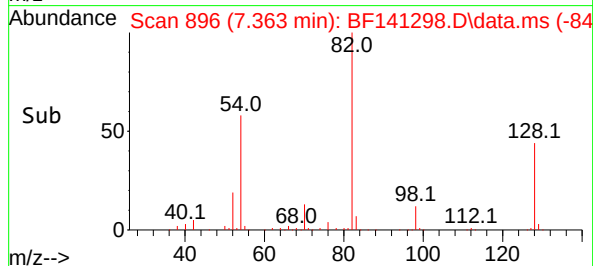
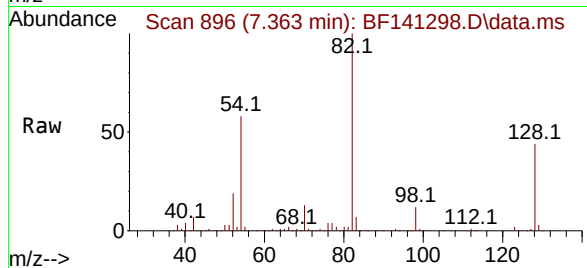
54 58.2 47.1 70.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#24

Nitrobenzene

Concen: 37.927 ng

RT: 7.381 min Scan# 899

Delta R.T. -0.012 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

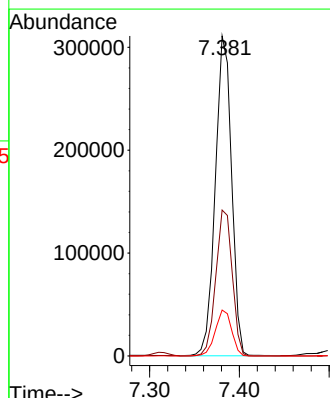
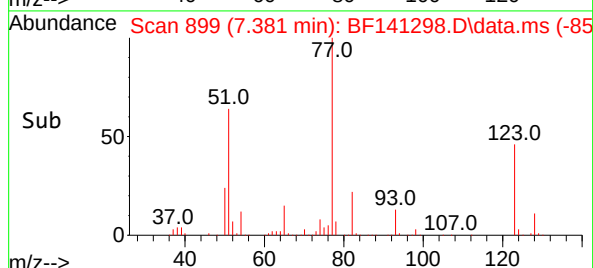
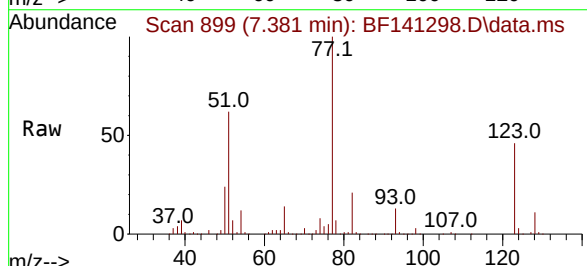
Tgt Ion: 77 Resp: 391907

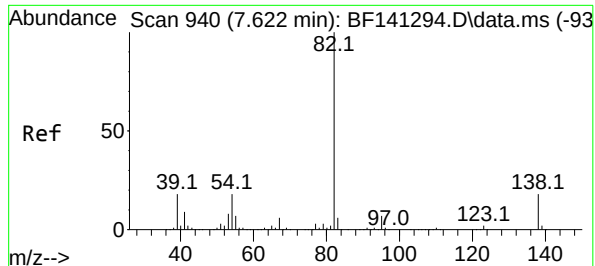
Ion Ratio Lower Upper

77 100

123 45.6 37.3 55.9

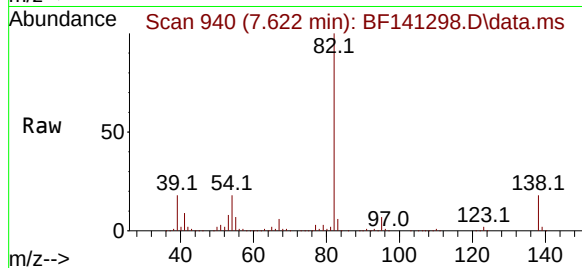
65 14.4 11.8 17.6





#25
Isophorone
Concen: 37.439 ng
RT: 7.622 min Scan# 940
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

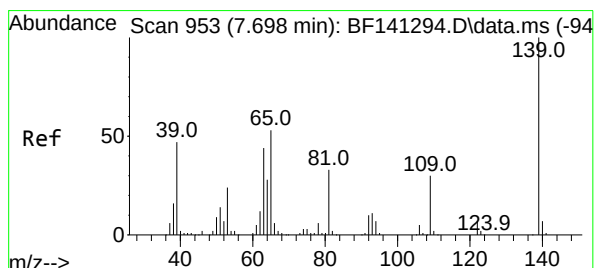
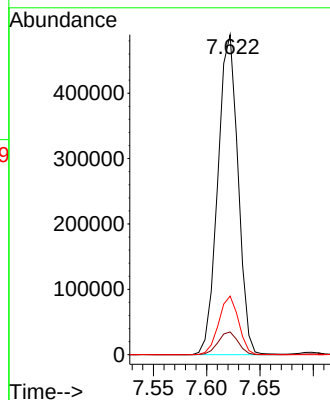
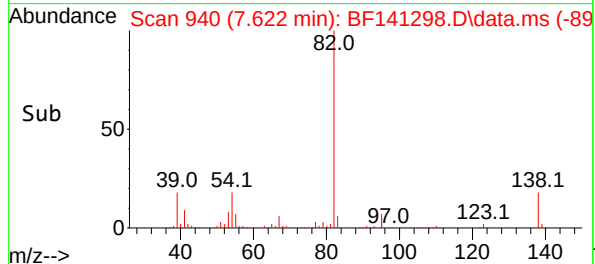
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



Tgt Ion: 82 Resp: 645309
Ion Ratio Lower Upper
82 100
95 7.1 5.8 8.6
138 18.3 14.7 22.1

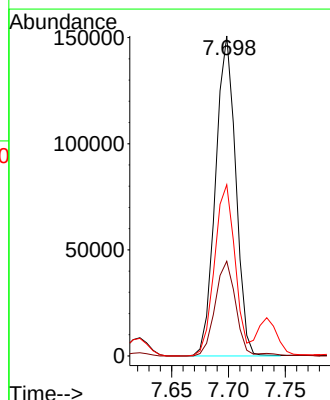
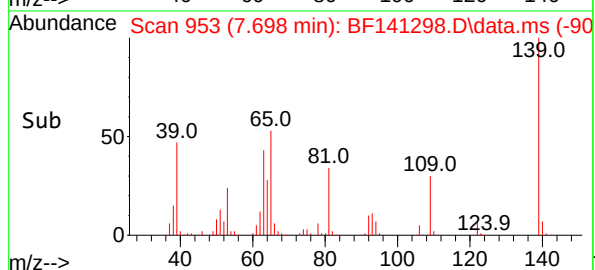
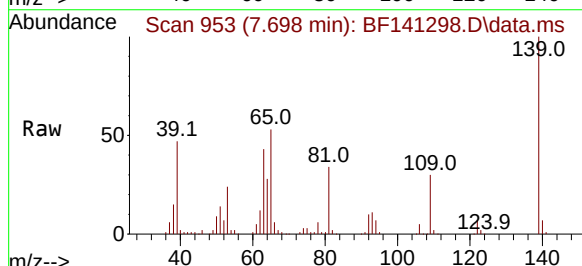
Manual Integrations
APPROVED

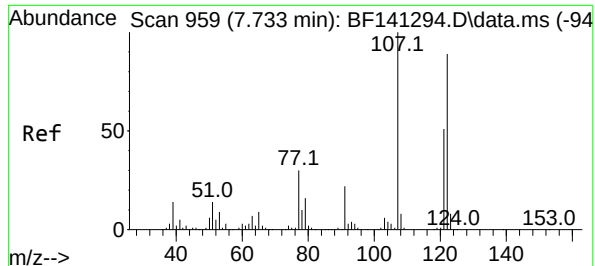
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#26
2-Nitrophenol
Concen: 38.289 ng
RT: 7.698 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:139 Resp: 186592
Ion Ratio Lower Upper
139 100
109 29.6 23.8 35.6
65 53.5 42.2 63.4





#27

2,4-Dimethylphenol

Concen: 38.055 ng m

RT: 7.734 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

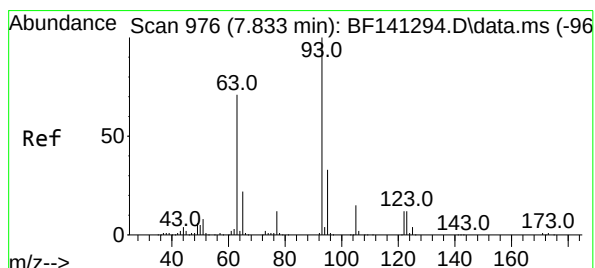
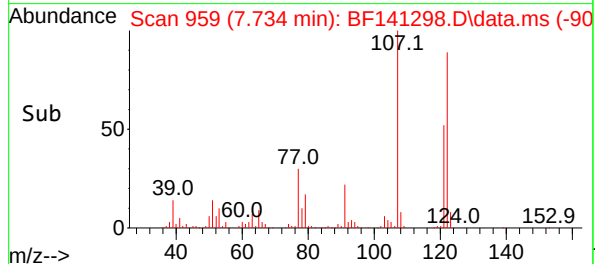
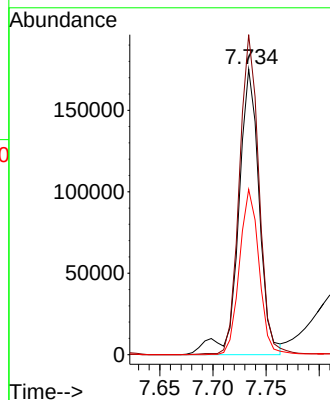
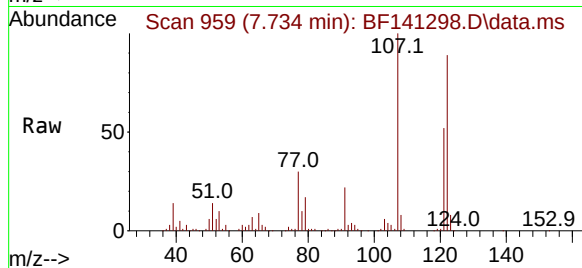
ClientSampleId :

ICVBF012925

Tgt Ion:122 Resp: 236052
Ion Ratio Lower Upper
122 100
107 112.0 89.9 134.9
121 57.9 46.1 69.1

Manual Integrations
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Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#28

bis(2-Chloroethoxy)methane

Concen: 37.460 ng

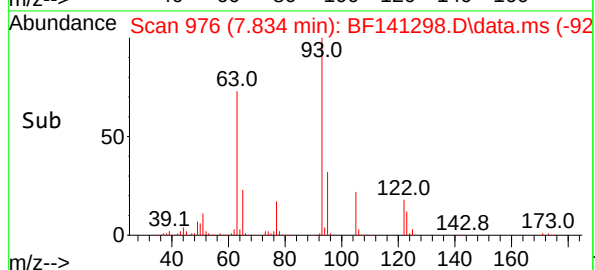
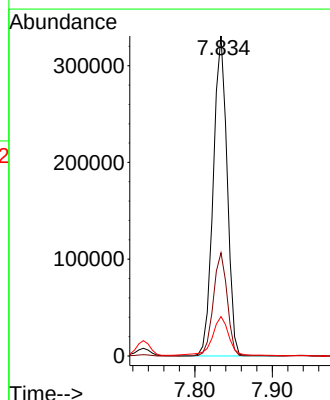
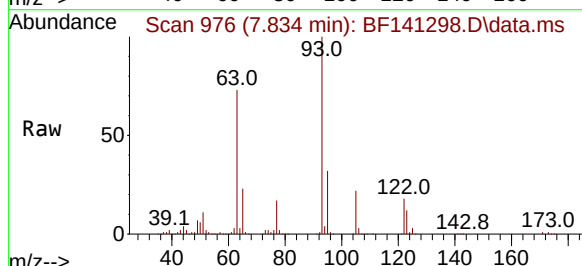
RT: 7.834 min Scan# 976

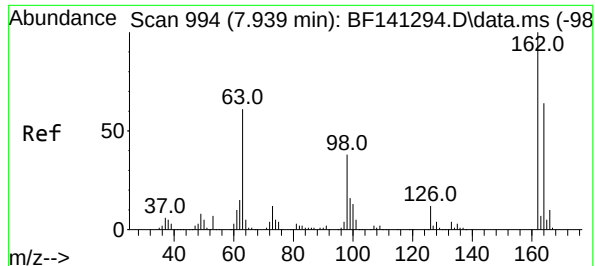
Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Tgt Ion: 93 Resp: 411851
Ion Ratio Lower Upper
93 100
95 32.3 26.2 39.2
123 12.3 10.2 15.4





#29

2,4-Dichlorophenol

Concen: 37.675 ng

RT: 7.940 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141298.D

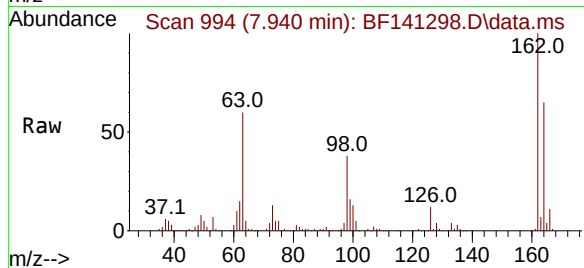
Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

ICVBF012925

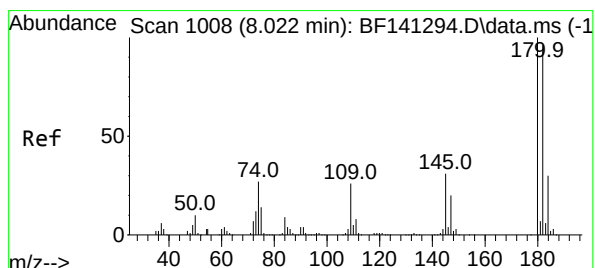
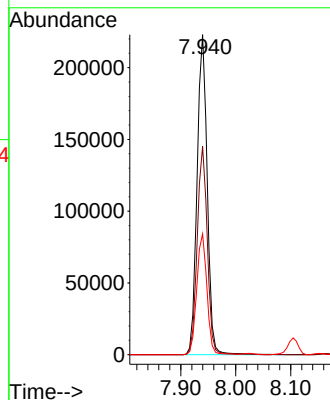
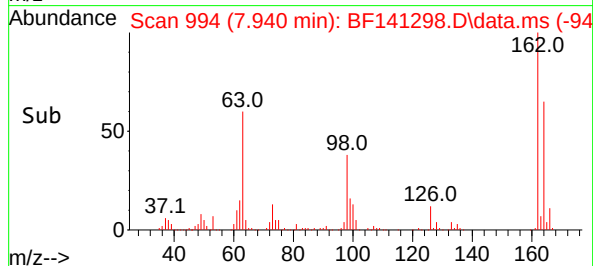


Tgt Ion:162	Resp:	286090
Ion	Ratio	Lower Upper
162	100	
164	65.1	44.2 84.2
98	37.7	18.2 58.2

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#30

1,2,4-Trichlorobenzene

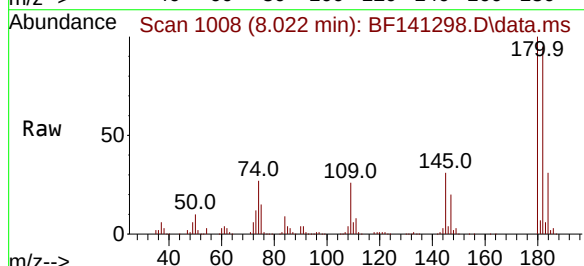
Concen: 36.488 ng

RT: 8.022 min Scan# 1008

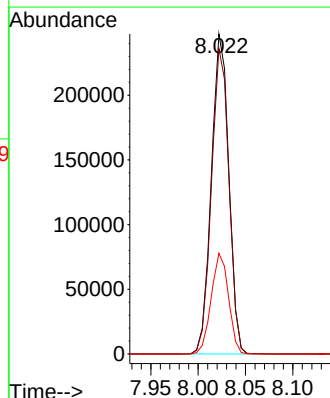
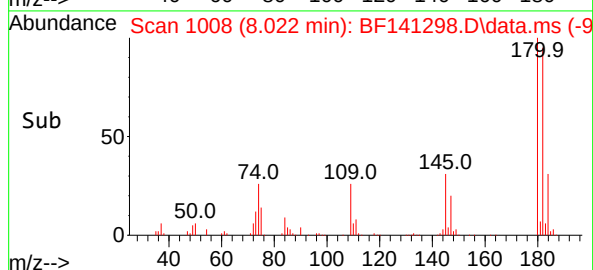
Delta R.T. -0.006 min

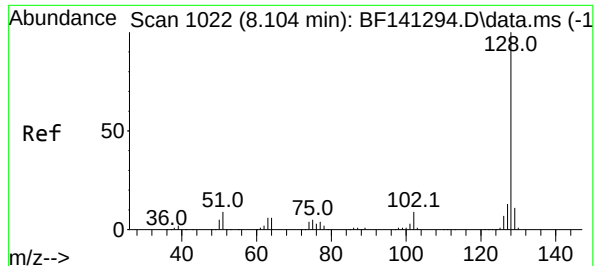
Lab File: BF141298.D

Acq: 29 Jan 2025 17:31



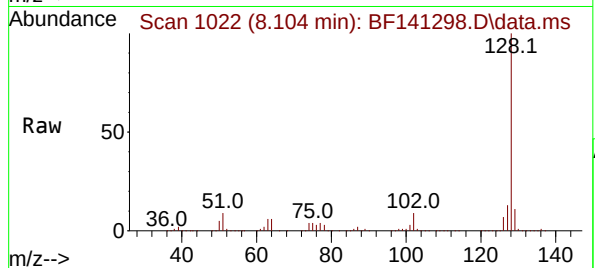
Tgt Ion:180	Resp:	316431
Ion	Ratio	Lower Upper
180	100	
182	95.4	76.4 114.6
145	31.4	24.9 37.3





#31
Naphthalene
Concen: 37.128 ng
RT: 8.104 min Scan# 1022
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

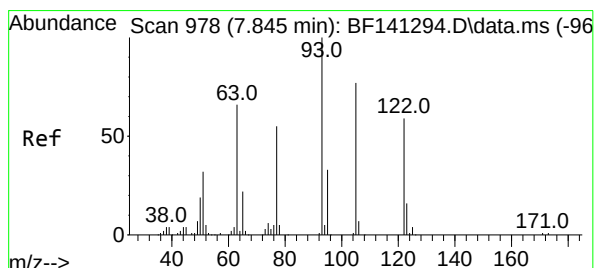
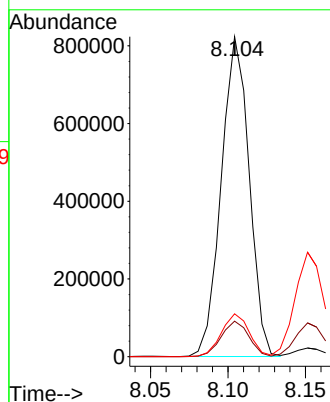
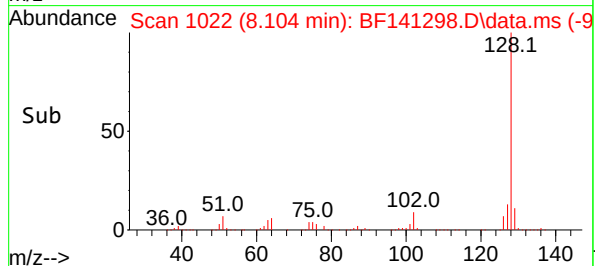
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



Tgt Ion:128 Resp: 103099
Ion Ratio Lower Upper
128 100
129 11.1 8.9 13.3
127 13.4 10.6 15.8

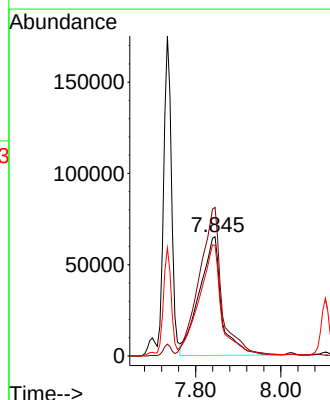
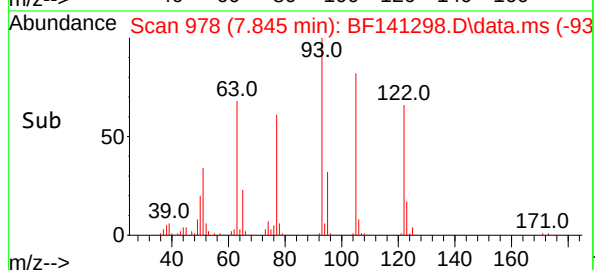
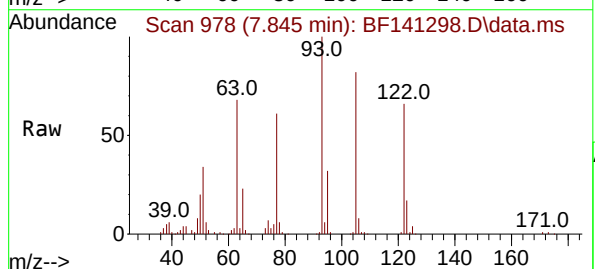
Manual Integrations
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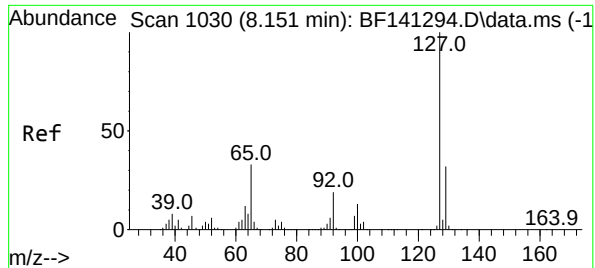
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#32
Benzoic acid
Concen: 41.534 ng
RT: 7.845 min Scan# 978
Delta R.T. -0.035 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:122 Resp: 236833
Ion Ratio Lower Upper
122 100
105 124.7 103.4 143.4
77 92.8 70.9 110.9





#33
4-Chloroaniline
Concen: 37.214 ng
RT: 8.151 min Scan# 1030
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

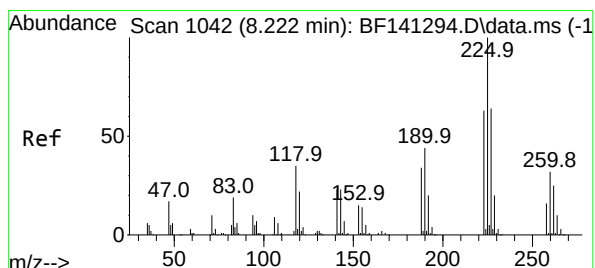
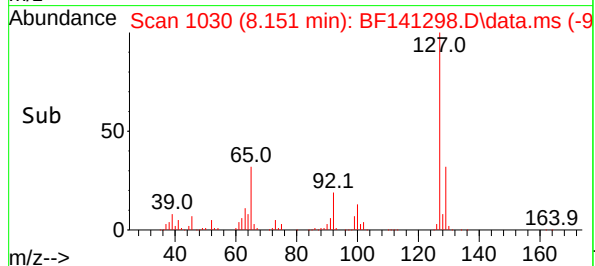
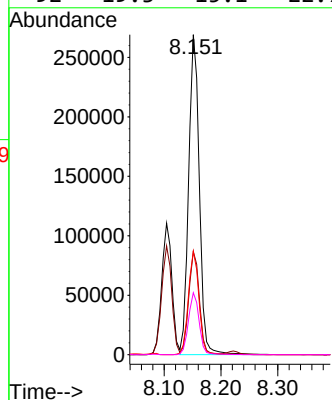
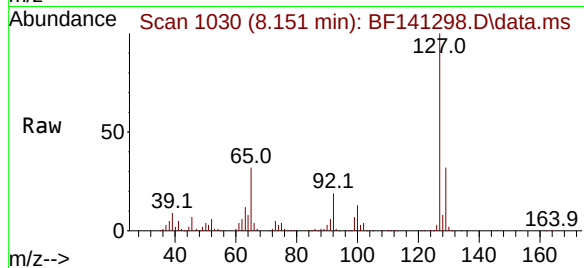
ClientSampleId :

ICVBF012925

Tgt Ion	Ratio	Lower	Upper
127	100		
129	32.3	25.7	38.5
65	32.3	26.4	39.6
92	19.3	15.1	22.7

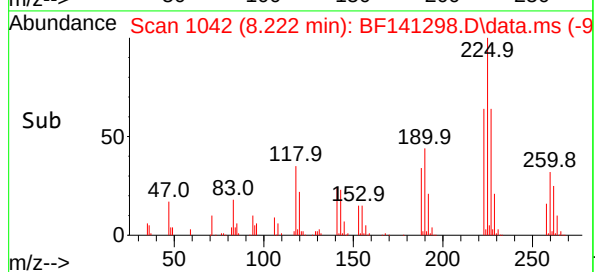
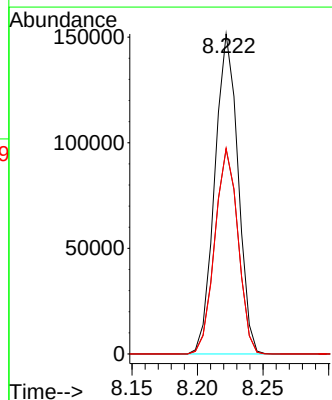
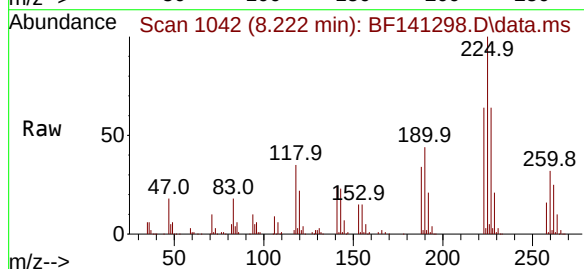
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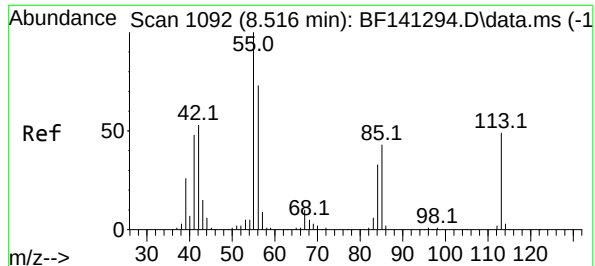
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#34
Hexachlorobutadiene
Concen: 36.676 ng
RT: 8.222 min Scan# 1042
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

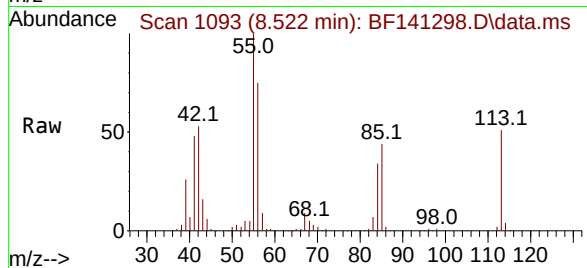
Tgt Ion	Ratio	Lower	Upper
225	100		
223	64.0	50.4	75.6
227	64.2	51.3	76.9





#35
Caprolactam
Concen: 37.662 ng
RT: 8.522 min Scan# 1093
Delta R.T. -0.024 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

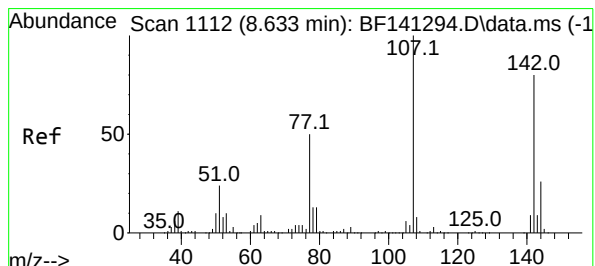
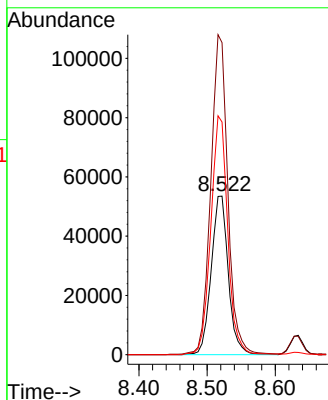
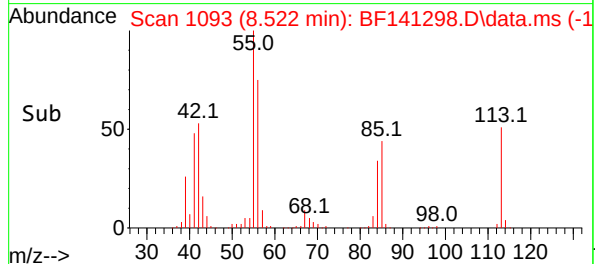
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



Tgt Ion:113 Resp: 9340
Ion Ratio Lower Upper
113 100
55 196.8 182.9 222.9
56 146.7 127.9 167.9

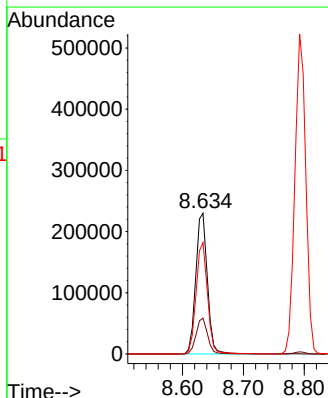
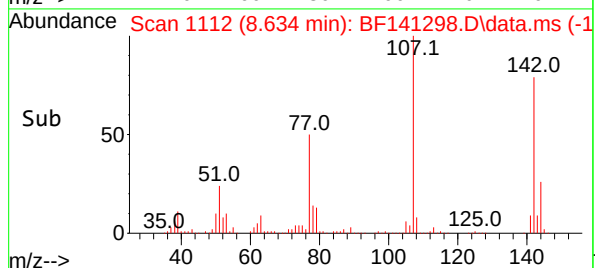
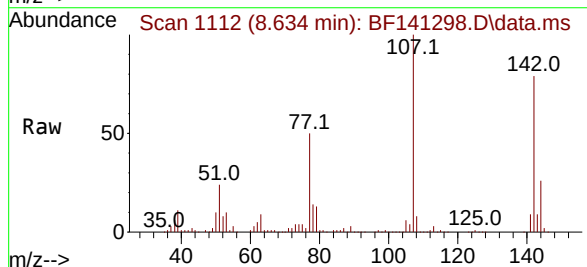
Manual Integrations
APPROVED

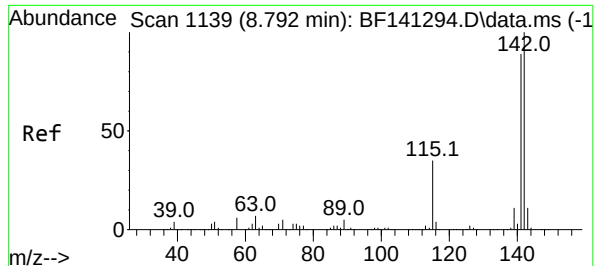
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#36
4-Chloro-3-methylphenol
Concen: 37.480 ng
RT: 8.634 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

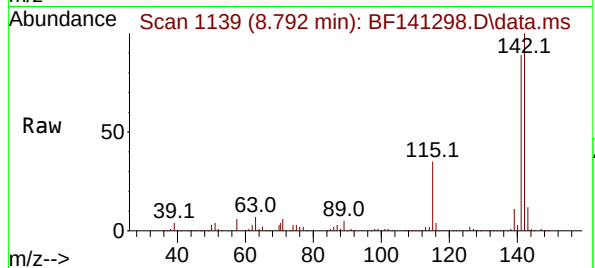
Tgt Ion:107 Resp: 305288
Ion Ratio Lower Upper
107 100
144 25.5 20.7 31.1
142 79.1 63.8 95.8





#37
2-Methylnaphthalene
Concen: 36.898 ng
RT: 8.792 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

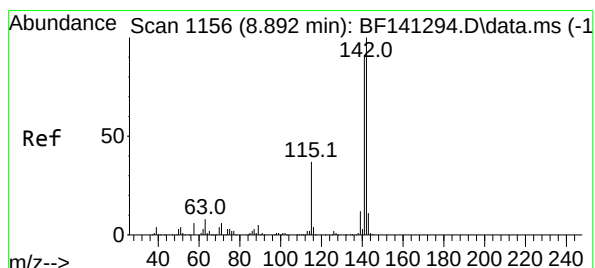
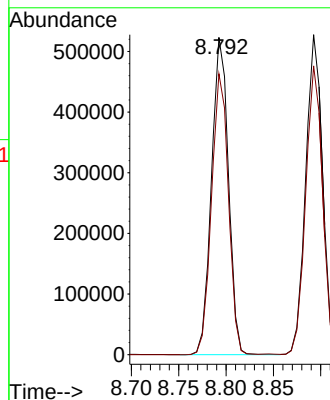
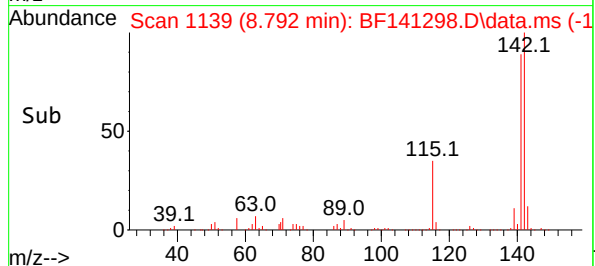
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



Tgt Ion:142 Resp: 65122
Ion Ratio Lower Upper
142 100
141 88.6 71.3 106.9

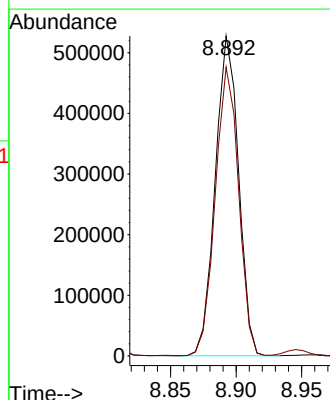
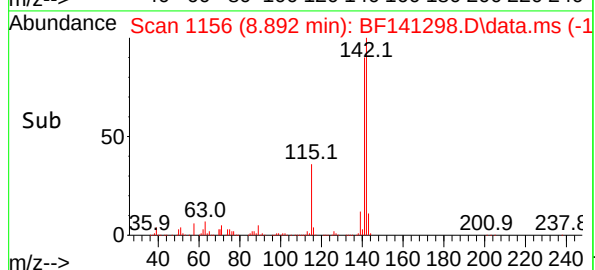
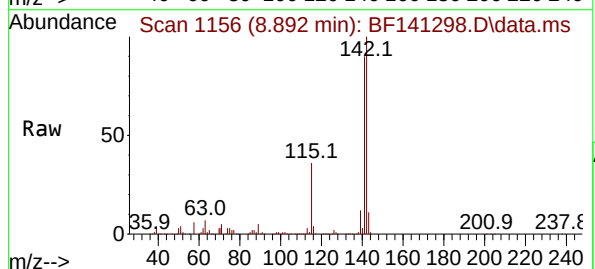
Manual Integrations
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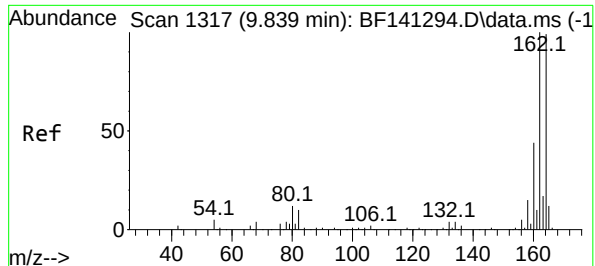
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#38
1-Methylnaphthalene
Concen: 37.570 ng
RT: 8.892 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:142 Resp: 651341
Ion Ratio Lower Upper
142 100
141 90.3 73.2 109.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.839 min Scan# 1167

Delta R.T. -0.000 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

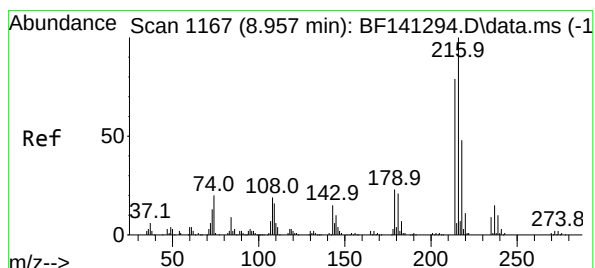
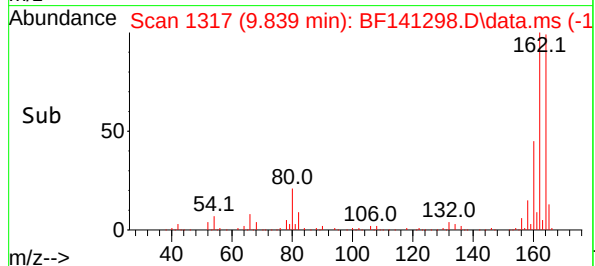
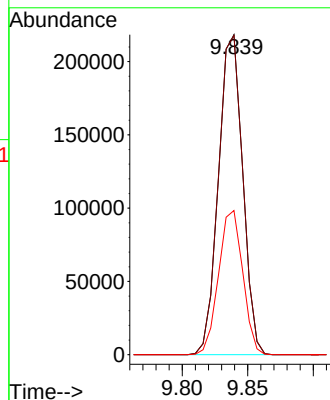
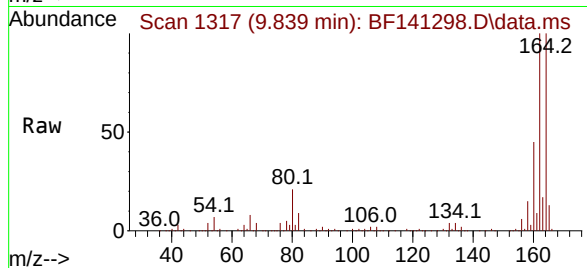
ClientSampleId :

ICVBF012925

Tgt Ion:164 Resp: 279764
Ion Ratio Lower Upper
164 100
162 99.8 80.6 121.0
160 45.1 35.8 53.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#40

1,2,4,5-Tetrachlorobenzene

Concen: 37.226 ng

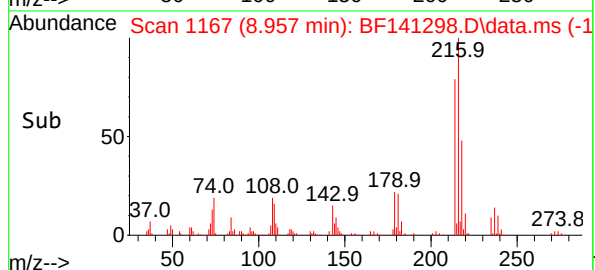
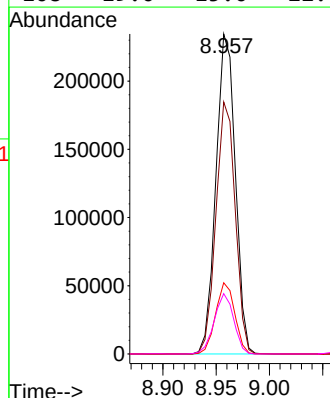
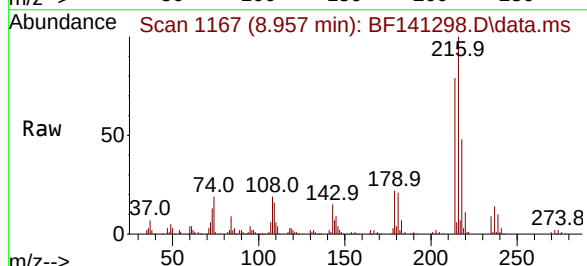
RT: 8.957 min Scan# 1167

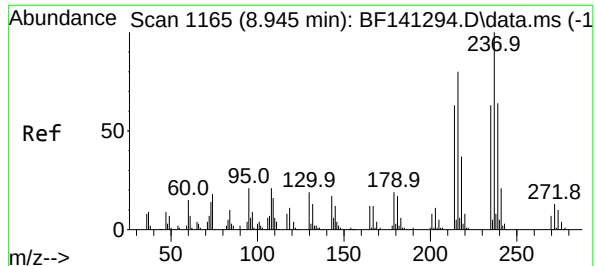
Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Tgt Ion:216 Resp: 296277
Ion Ratio Lower Upper
216 100
214 78.4 63.2 94.8
179 22.0 17.8 26.8
108 19.0 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 39.961 ng

RT: 8.945 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

ICVBF012925

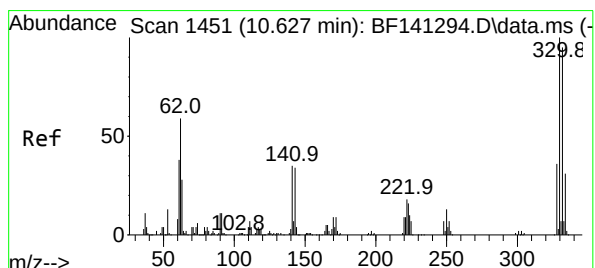
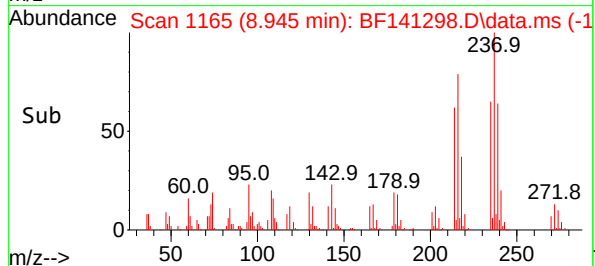
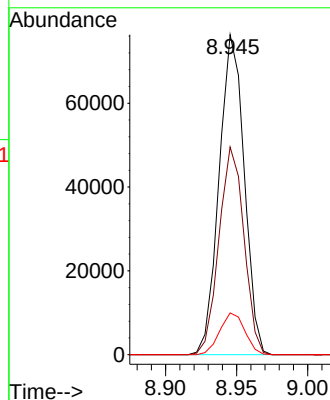
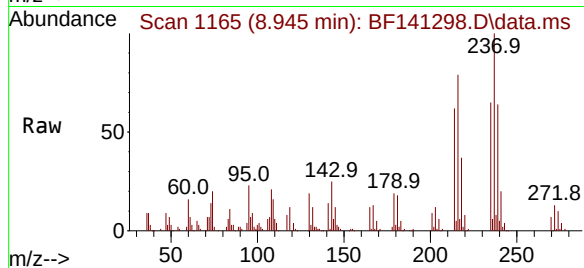
Tgt Ion:	237	Resp:	93930
Ion Ratio	Lower	Upper	
237	100		
235	64.9	42.9	82.9
272	13.1	0.0	32.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#42

2,4,6-Tribromophenol

Concen: 75.161 ng

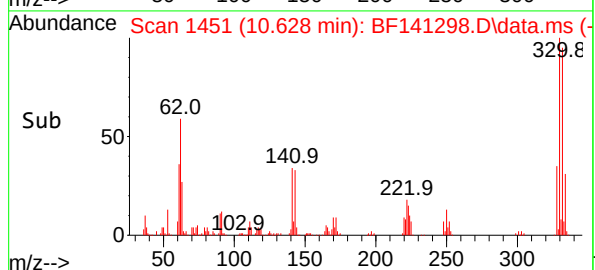
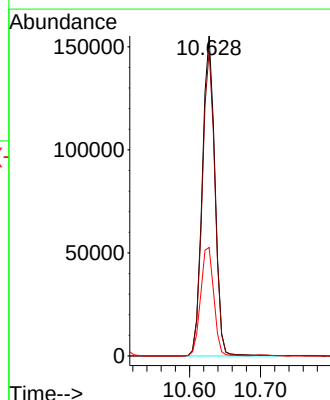
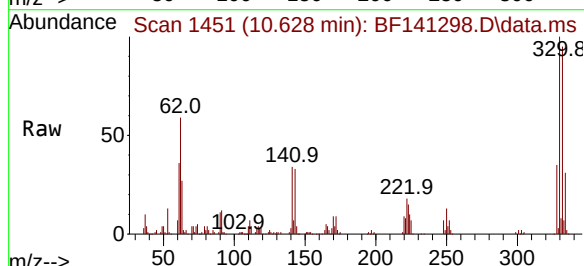
RT: 10.628 min Scan# 1451

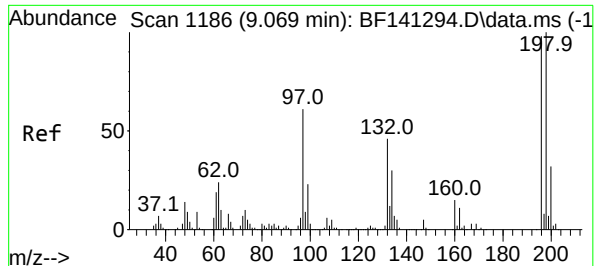
Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Tgt Ion:	330	Resp:	192773
Ion Ratio	Lower	Upper	
330	100		
332	95.5	76.1	114.1
141	35.5	28.8	43.2





#43

2,4,6-Trichlorophenol

Concen: 38.625 ng

RT: 9.069 min Scan# 1186

Delta R.T. -0.006 min

Lab File: BF141298.D

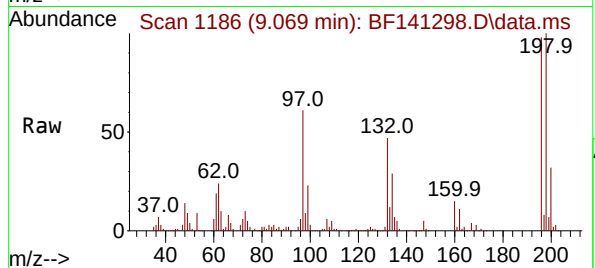
Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

ICVBF012925



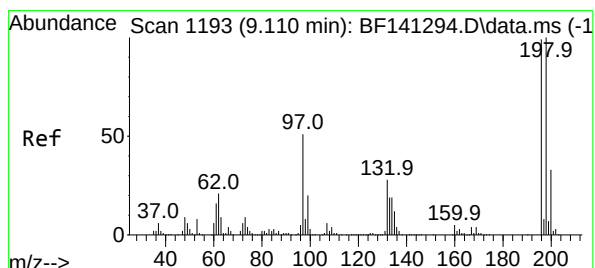
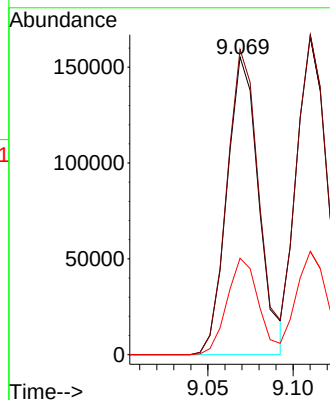
Tgt Ion:	196	Resp:	201214
Ion	Ratio	Lower	Upper
196	100		
198	102.5	81.8	122.6
200	32.4	26.3	39.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#44

2,4,5-Trichlorophenol

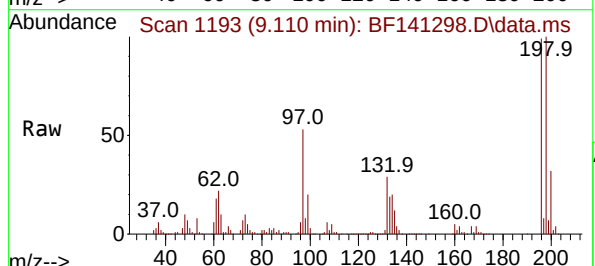
Concen: 36.969 ng

RT: 9.110 min Scan# 1193

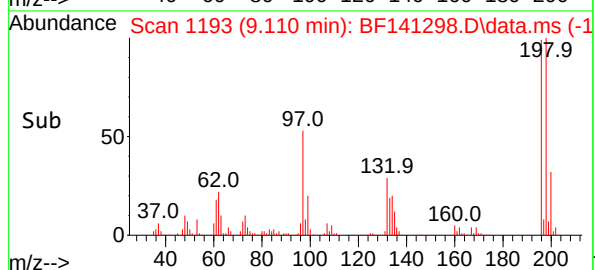
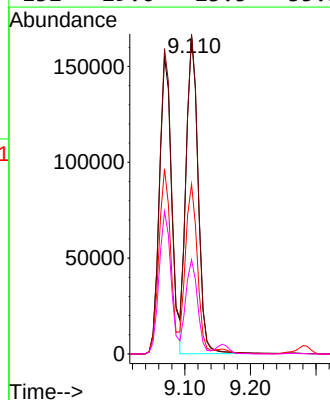
Delta R.T. -0.006 min

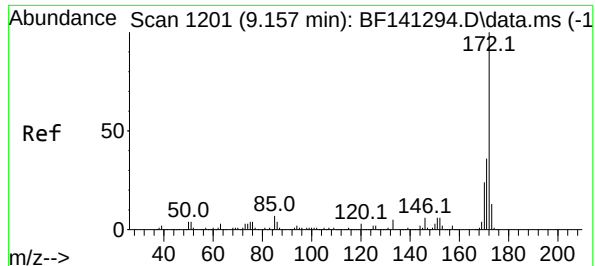
Lab File: BF141298.D

Acq: 29 Jan 2025 17:31



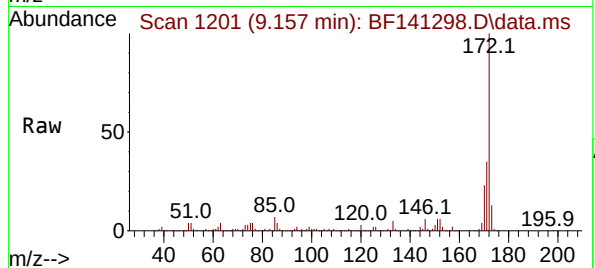
Tgt Ion:	196	Resp:	209611
Ion	Ratio	Lower	Upper
196	100		
198	100.6	80.5	120.7
97	53.3	42.8	64.2
132	29.6	23.5	35.3





#45
2-Fluorobiphenyl
Concen: 72.938 ng
RT: 9.157 min Scan# 1201
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

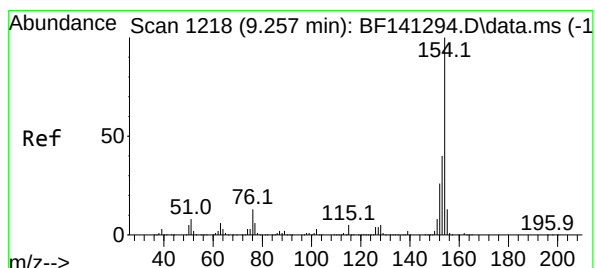
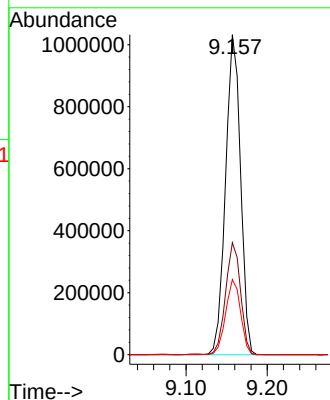
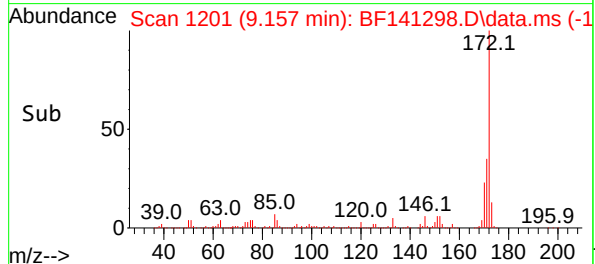
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



Tgt Ion:172 Resp: 132572
Ion Ratio Lower Upper
172 100
171 35.0 28.8 43.2
170 23.4 19.0 28.6

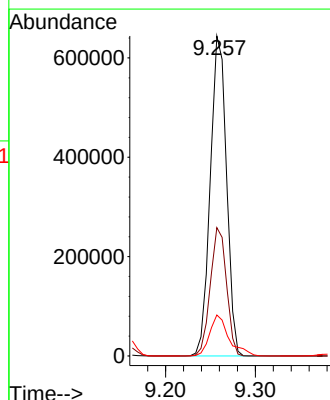
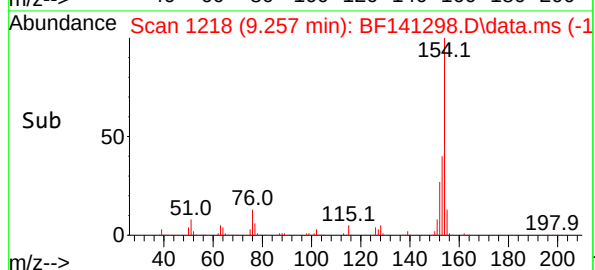
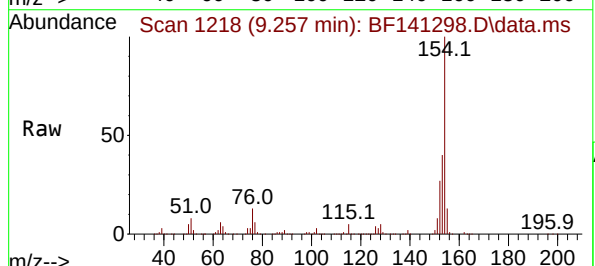
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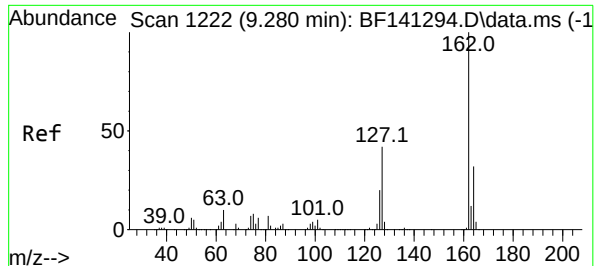
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#46
1,1'-Biphenyl
Concen: 37.111 ng
RT: 9.257 min Scan# 1218
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:154 Resp: 809694
Ion Ratio Lower Upper
154 100
153 40.1 20.0 60.0
76 12.8 0.0 32.8





#47

2-Chloronaphthalene

Concen: 36.837 ng

RT: 9.281 min Scan# 1222

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

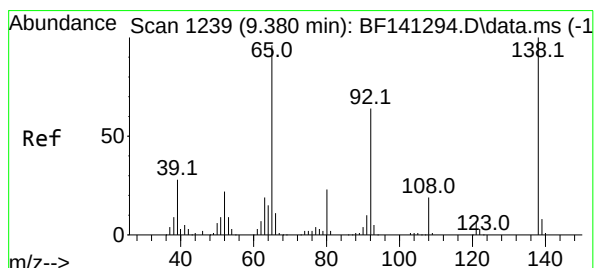
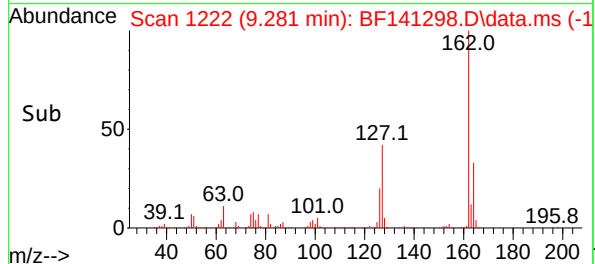
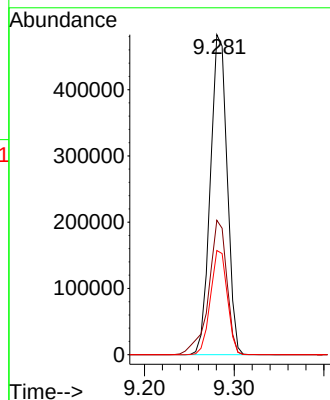
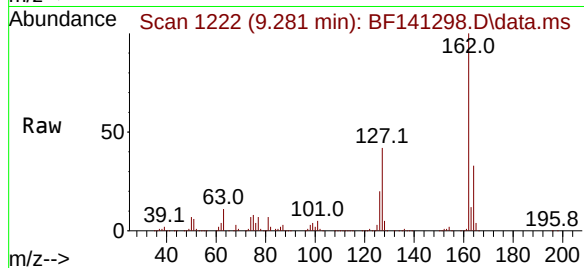
ICVBF012925

Tgt Ion:	162	Resp:	62645
Ion Ratio	Lower	Upper	
162	100		
127	42.0	33.7	50.5
164	32.5	25.9	38.9

**Manual Integrations
APPROVED**

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#48

2-Nitroaniline

Concen: 37.970 ng

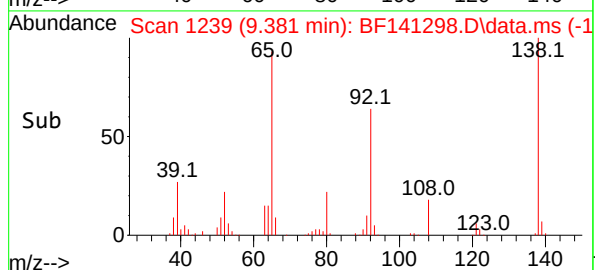
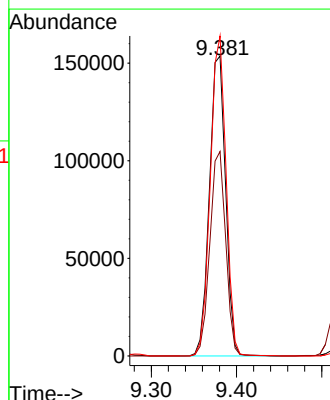
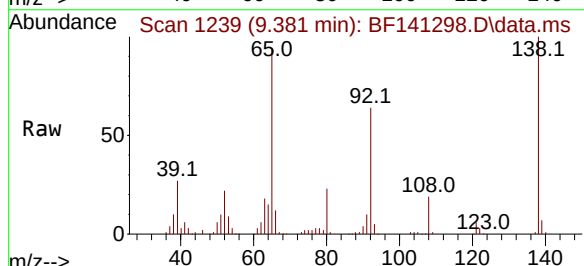
RT: 9.381 min Scan# 1239

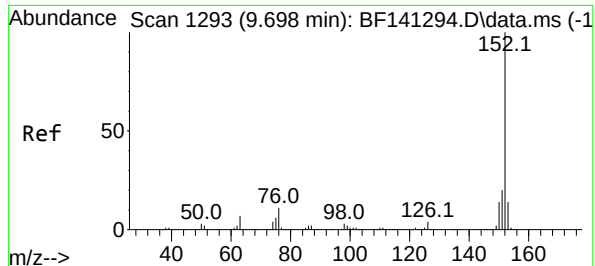
Delta R.T. -0.000 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Tgt Ion:	65	Resp:	203104
Ion Ratio	Lower	Upper	
65	100		
92	68.1	53.3	79.9
138	106.7	83.6	125.4





#49

Acenaphthylene

Concen: 37.416 ng

RT: 9.698 min Scan# 1293

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

ICVBF012925

Tgt Ion:152 Resp: 890709

Ion Ratio Lower Upper

152 100

151 20.3 16.2 24.2

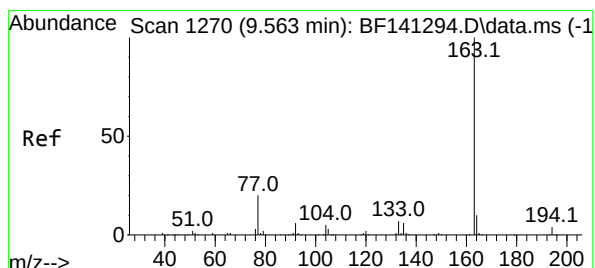
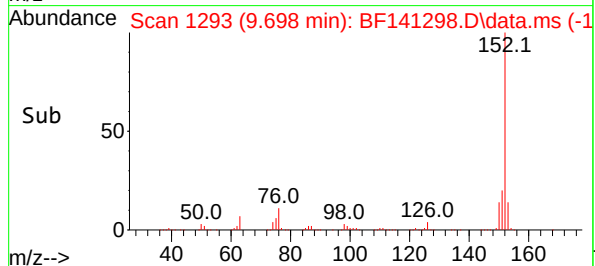
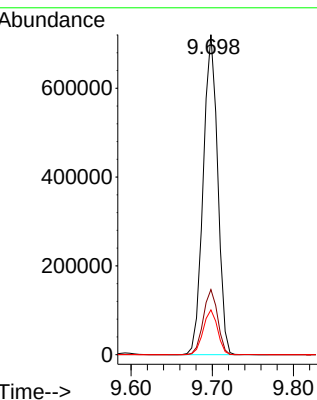
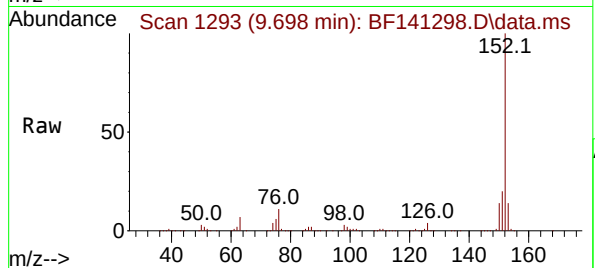
153 14.0 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#50

Dimethylphthalate

Concen: 36.904 ng

RT: 9.563 min Scan# 1270

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

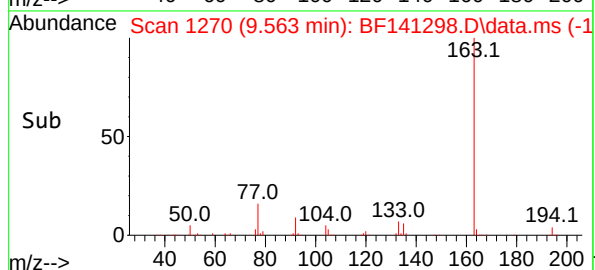
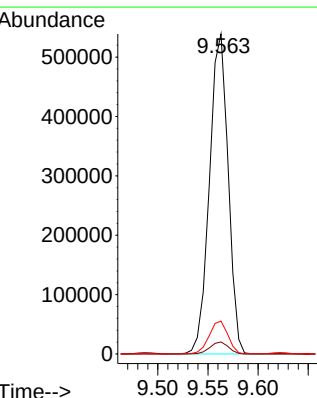
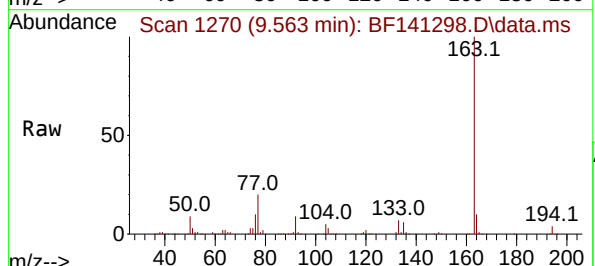
Tgt Ion:163 Resp: 697300

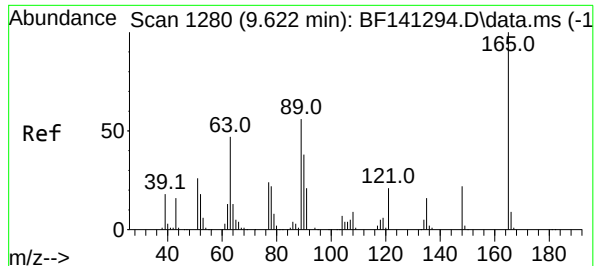
Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.6

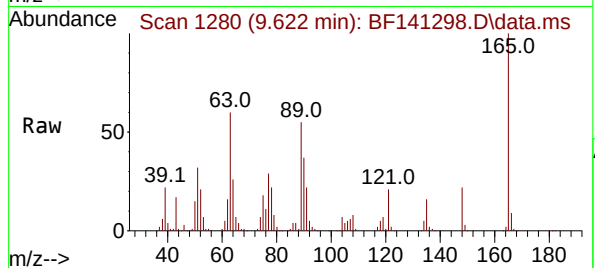
164 10.2 8.0 12.0





#51
2,6-Dinitrotoluene
Concen: 37.459 ng
RT: 9.622 min Scan# 1280
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

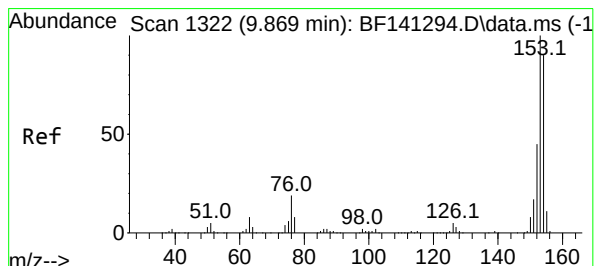
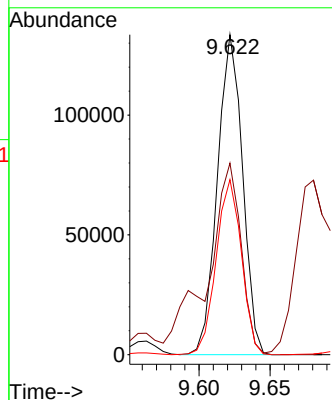
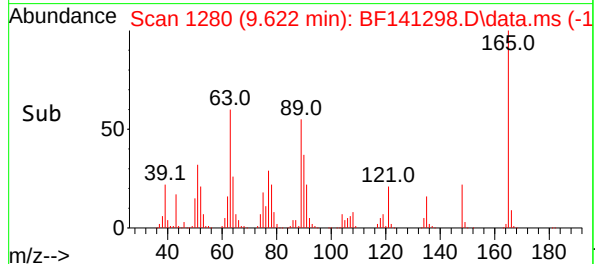
Instrument :
BNA_F
Client Sample Id :
ICVBF012925



Tgt Ion:165 Resp: 16434
Ion Ratio Lower Upper
165 100
63 59.9 48.1 72.1
89 54.7 44.9 67.3

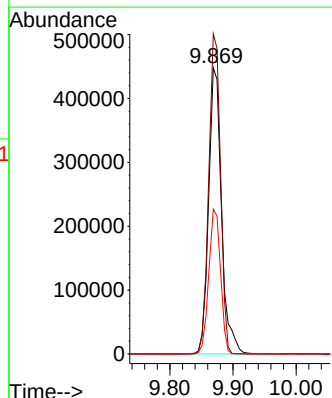
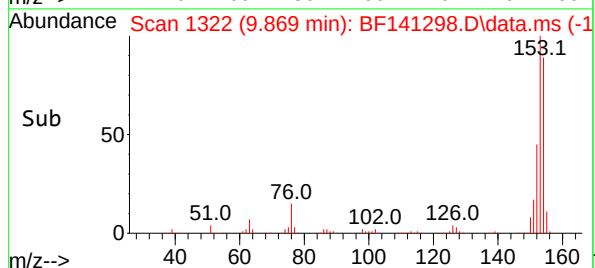
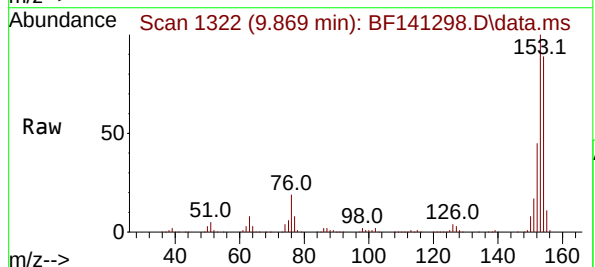
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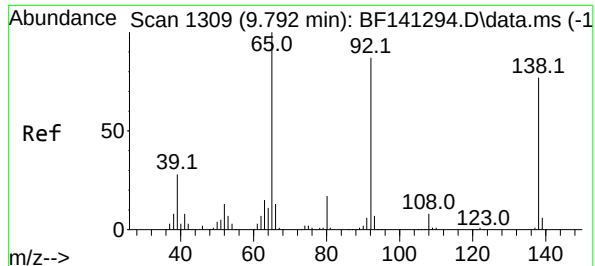
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#52
Acenaphthene
Concen: 37.206 ng
RT: 9.869 min Scan# 1322
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

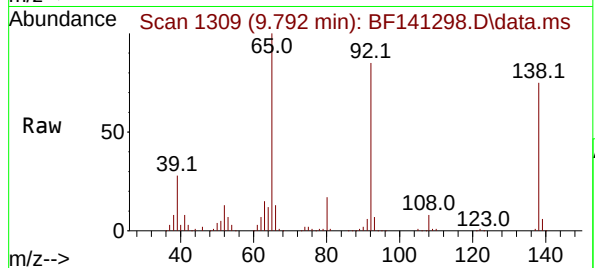
Tgt Ion:154 Resp: 632756
Ion Ratio Lower Upper
154 100
153 111.8 89.0 133.4
152 50.6 40.2 60.4





#53
3-Nitroaniline
Concen: 38.150 ng
RT: 9.792 min Scan# 1309
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

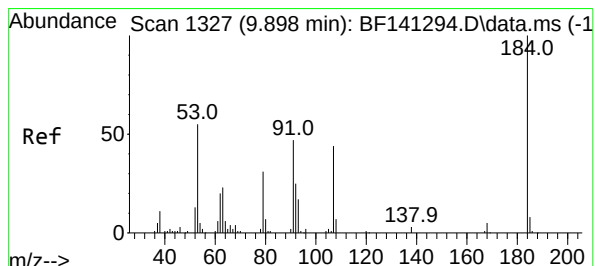
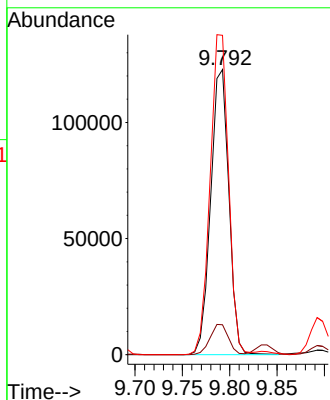
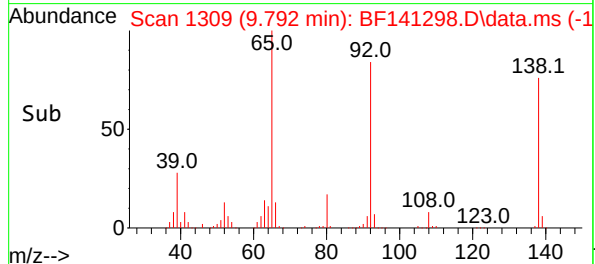
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



Tgt Ion:138 Resp: 16404
Ion Ratio Lower Upper
138 100
108 10.5 8.6 12.8
92 112.1 91.0 136.6

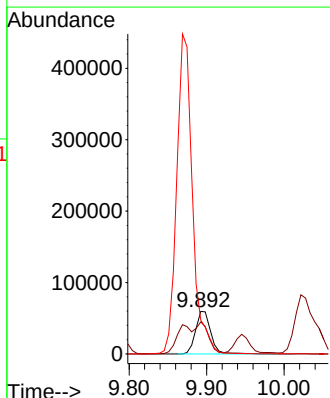
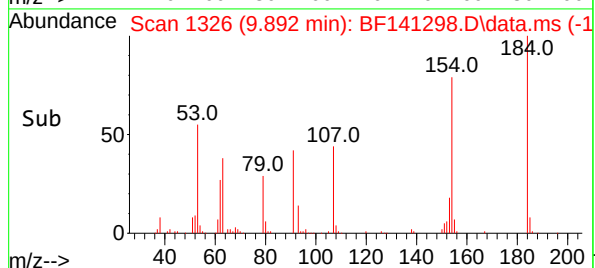
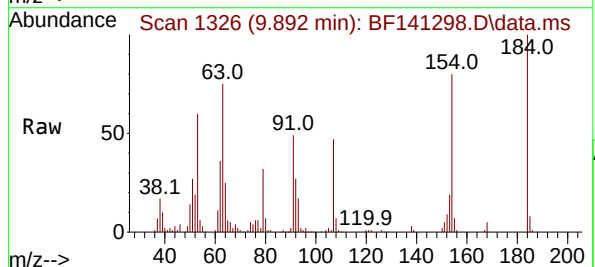
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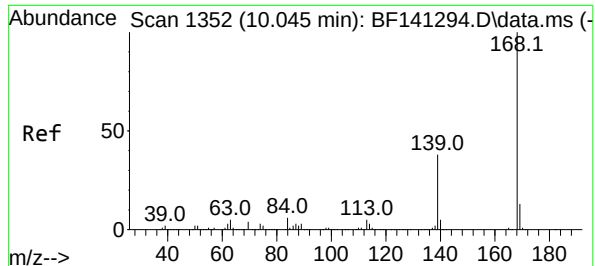
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#54
2,4-Dinitrophenol
Concen: 39.734 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:184 Resp: 81034
Ion Ratio Lower Upper
184 100
63 75.3 54.1 81.1
154 79.6 50.7 76.1#





#55

Dibenzenofuran

Concen: 37.012 ng

RT: 10.045 min Scan# 1352

Delta R.T. -0.000 min

Lab File: BF141298.D

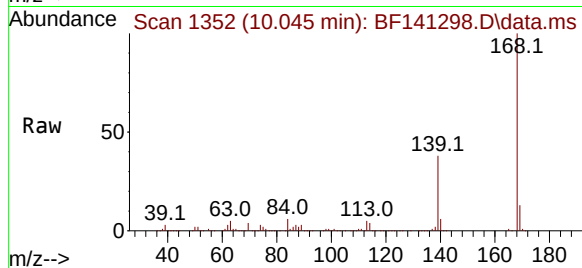
Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

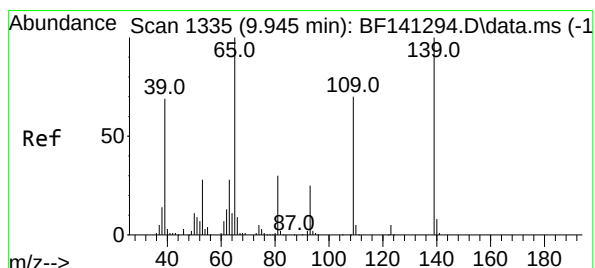
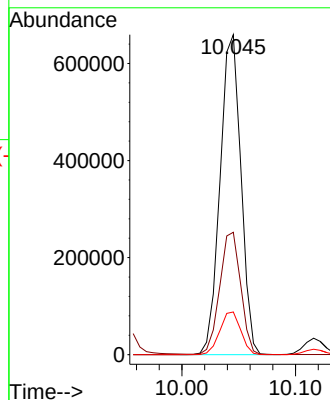
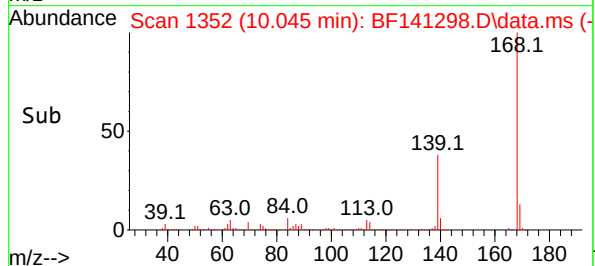
ICVBF012925



Tgt Ion:168	Resp: 84255
Ion Ratio	Lower Upper
168	100
139	38.2 30.6 46.0
169	13.4 10.8 16.2

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Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#56

4-Nitrophenol

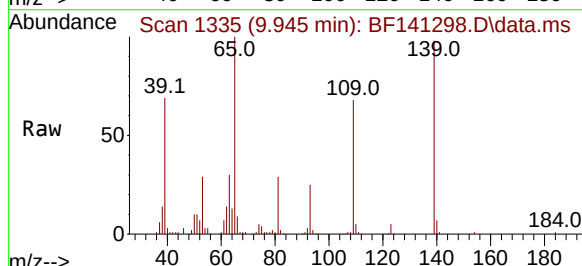
Concen: 39.089 ng

RT: 9.945 min Scan# 1335

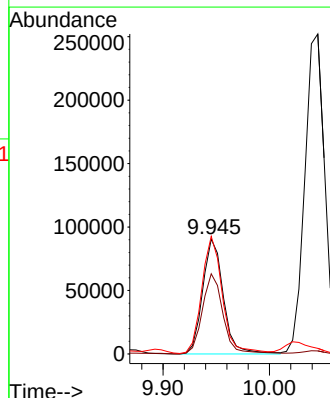
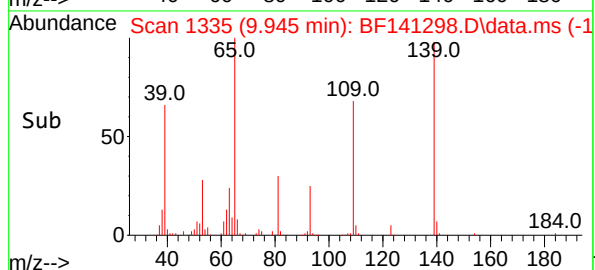
Delta R.T. -0.012 min

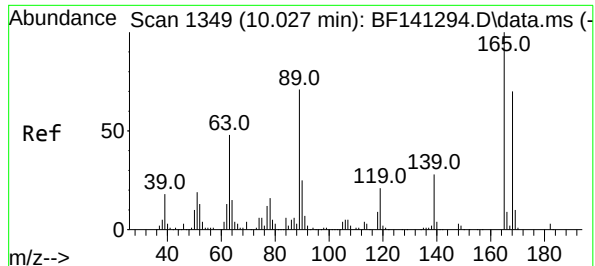
Lab File: BF141298.D

Acq: 29 Jan 2025 17:31



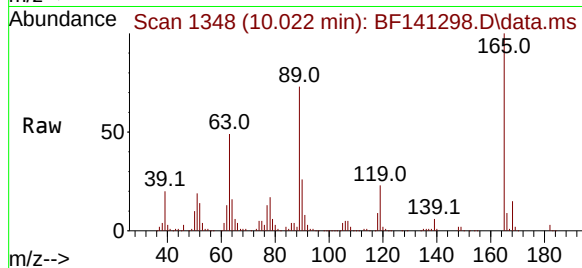
Tgt Ion:139	Resp: 122925
Ion Ratio	Lower Upper
139	100
109	69.7 50.2 90.2
65	102.4 80.6 120.6





#57
2,4-Dinitrotoluene
Concen: 38.327 ng
RT: 10.022 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

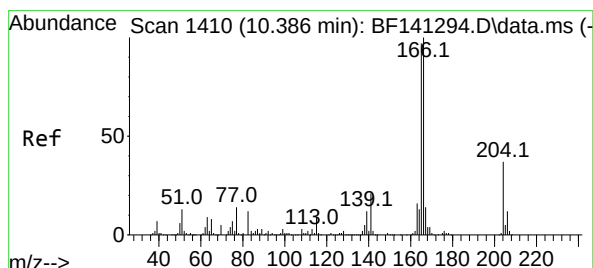
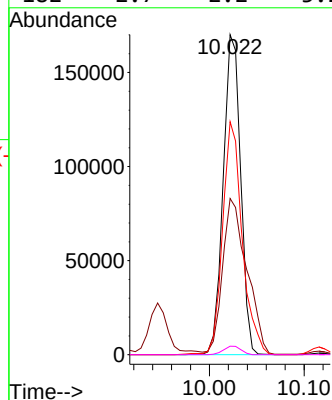
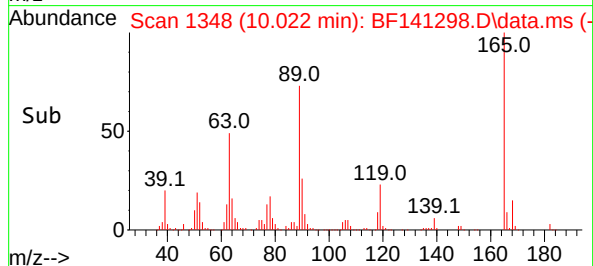
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



Tgt Ion:165 Resp: 21770
Ion Ratio Lower Upper
165 100
63 48.8 39.2 58.8
89 72.8 56.9 85.3
182 2.7 2.2 3.2

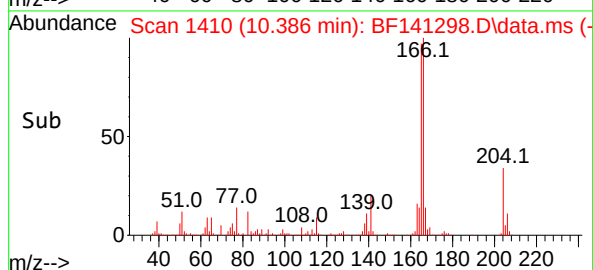
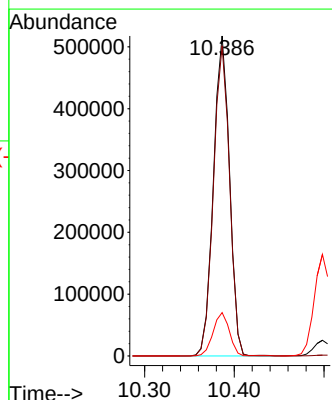
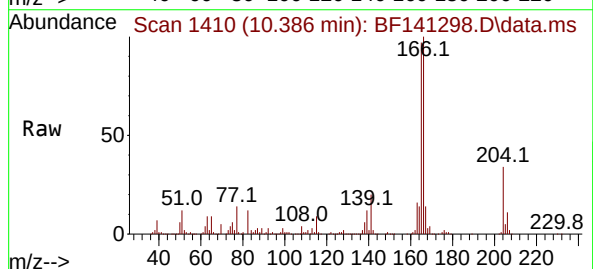
Manual Integrations
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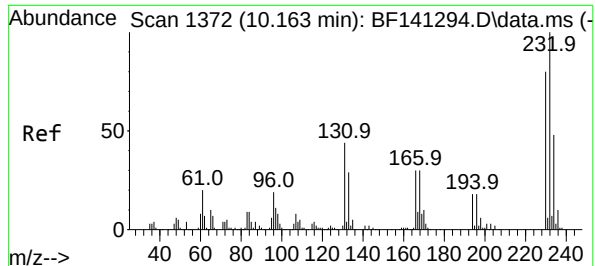
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#58
Fluorene
Concen: 36.451 ng
RT: 10.386 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

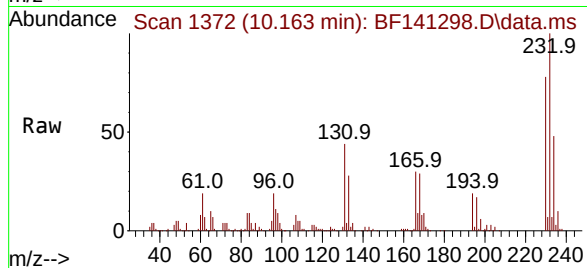
Tgt Ion:166 Resp: 643639
Ion Ratio Lower Upper
166 100
165 96.9 77.5 116.3
167 13.6 10.9 16.3





#59
2,3,4,6-Tetrachlorophenol
Concen: 37.902 ng
RT: 10.163 min Scan# 1372
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

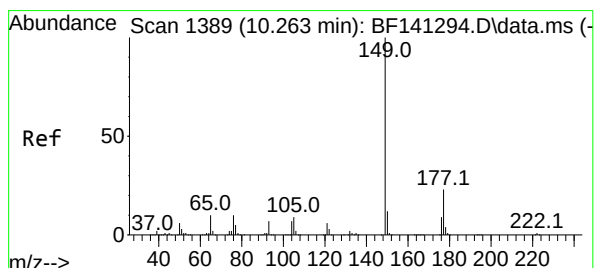
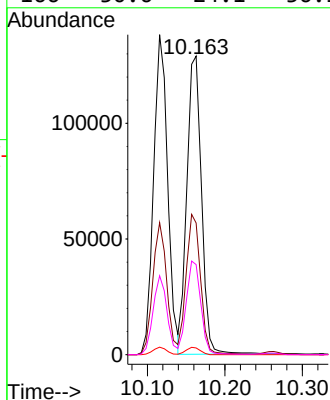
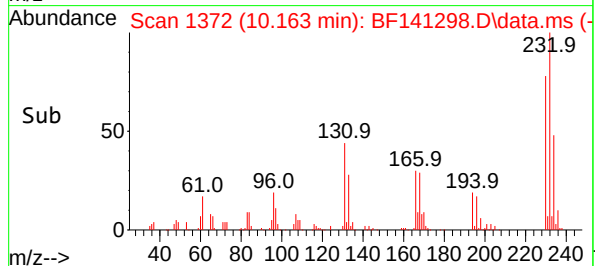
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



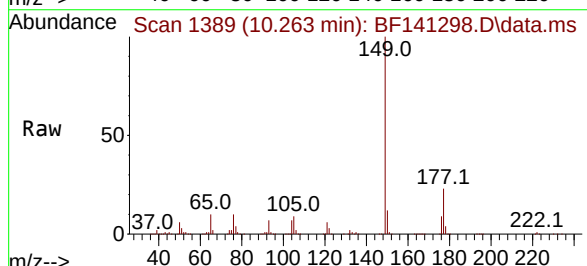
Tgt Ion:232 Resp: 16906
Ion Ratio Lower Upper
232 100
131 46.5 36.4 54.6
130 2.4 1.9 2.9
166 30.6 24.1 36.1

Manual Integrations
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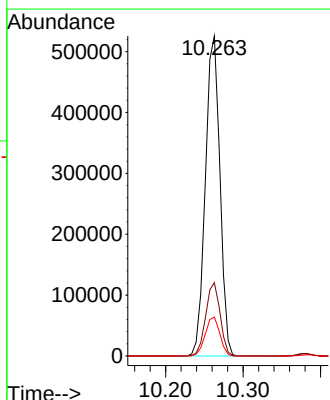
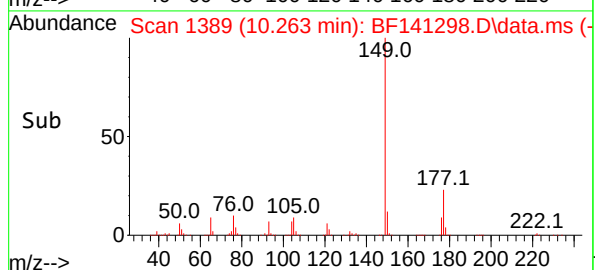
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

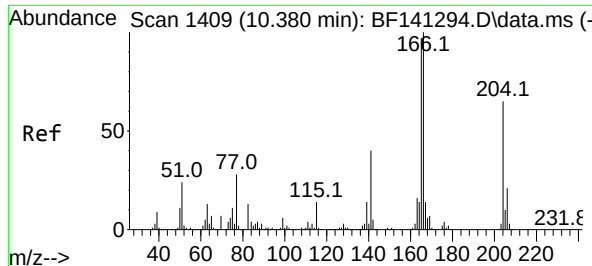


#60
Diethylphthalate
Concen: 37.316 ng
RT: 10.263 min Scan# 1389
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31



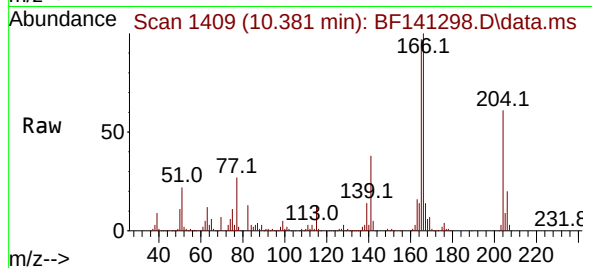
Tgt Ion:149 Resp: 683674
Ion Ratio Lower Upper
149 100
177 22.9 18.5 27.7
150 12.1 10.0 15.0





#61
4-Chlorophenyl-phenylether
Concen: 36.180 ng
RT: 10.381 min Scan# 1409
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

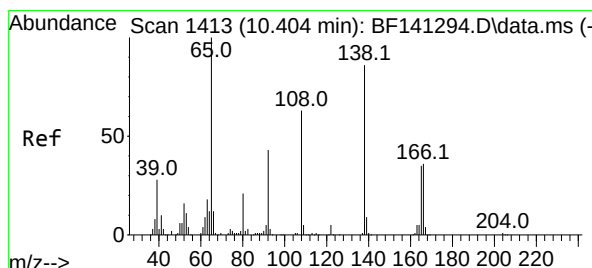
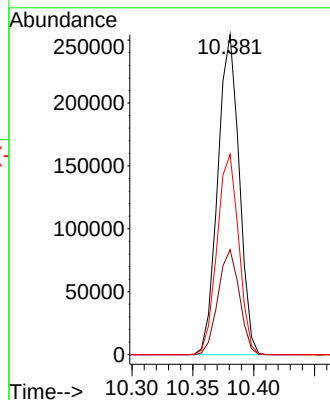
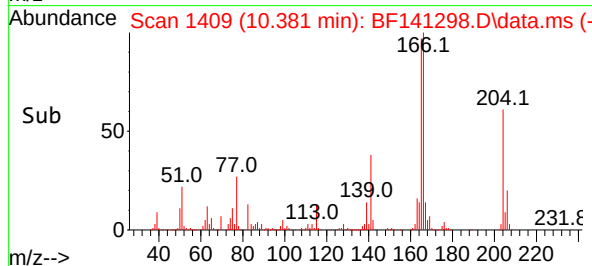
Instrument :
BNA_F
Client Sample Id :
ICVBF012925



Tgt Ion: 204 Resp: 31206
Ion Ratio Lower Upper
204 100
206 32.8 25.9 38.9
141 62.6 49.5 74.3

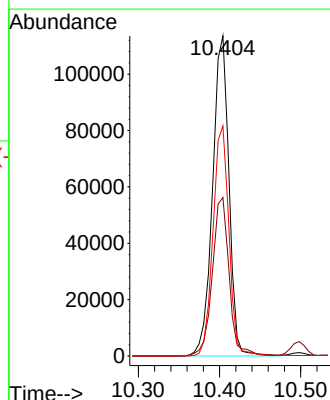
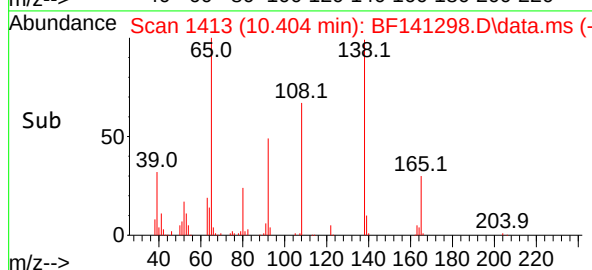
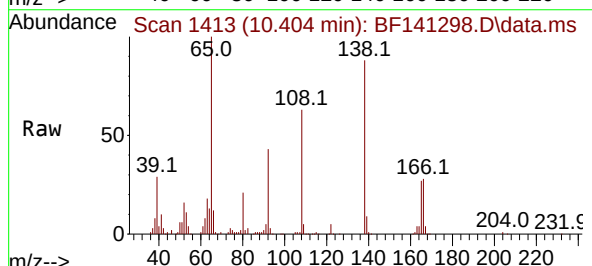
Manual Integrations
APPROVED

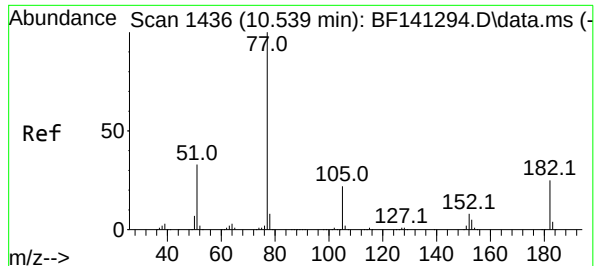
Reviewed By : Yogesh Patel 01/30/2025
Supervised By : mohammad ahmed 02/04/2025



#62
4-Nitroaniline
Concen: 37.665 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

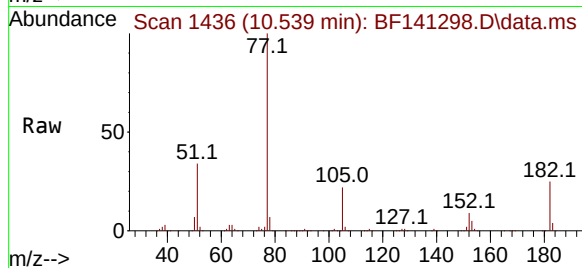
Tgt Ion: 138 Resp: 159227
Ion Ratio Lower Upper
138 100
92 49.5 30.1 70.1
108 71.9 53.1 93.1





#63
Azobenzene
Concen: 37.020 ng
RT: 10.539 min Scan# 1436
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

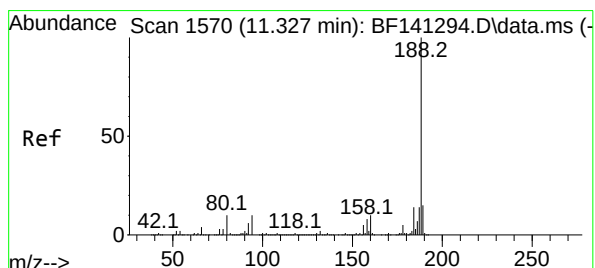
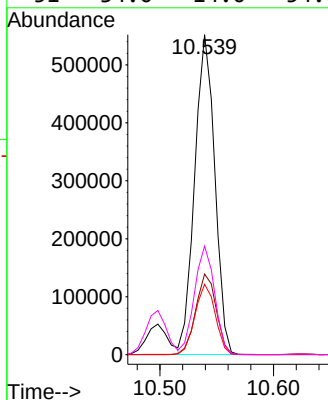
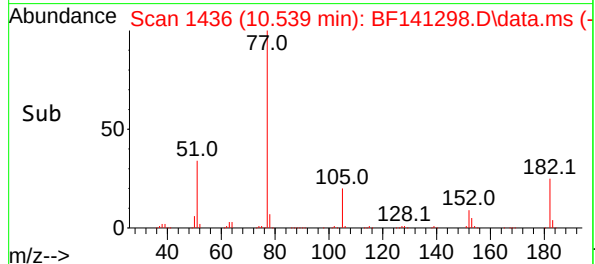
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



Tgt Ion: 77 Resp: 67890
Ion Ratio Lower Upper
77 100
182 25.2 5.1 45.1
105 22.0 1.8 41.8
51 34.0 14.0 54.0

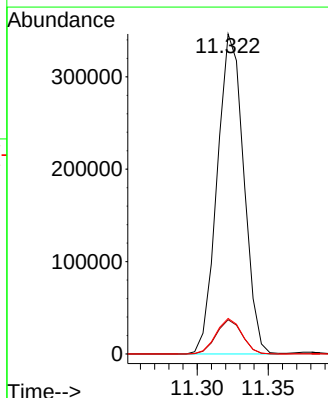
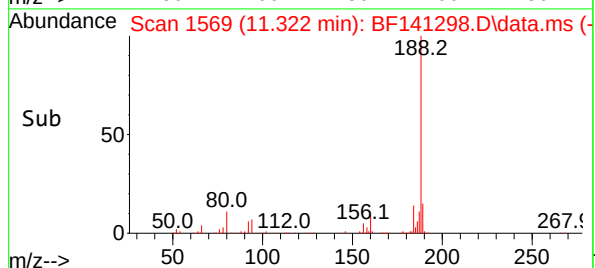
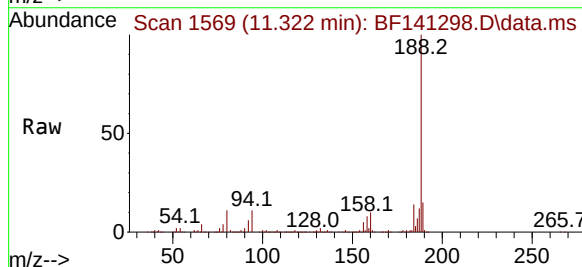
Manual Integrations
APPROVED

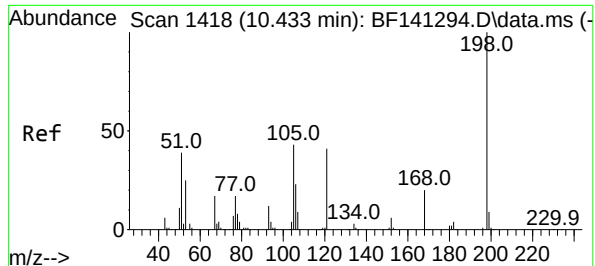
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:188 Resp: 450291
Ion Ratio Lower Upper
188 100
94 10.7 7.8 11.6
80 11.1 8.2 12.4





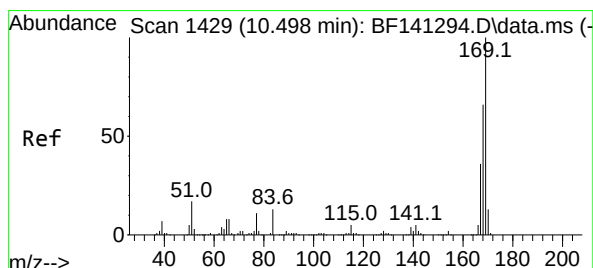
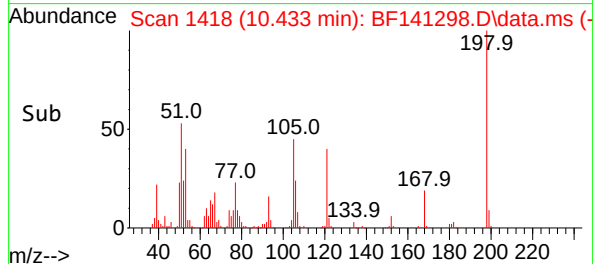
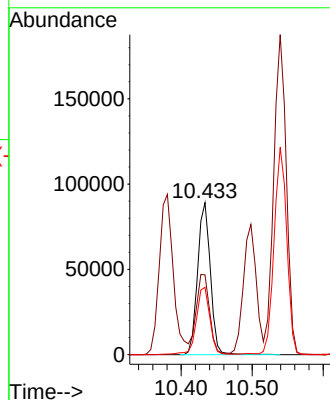
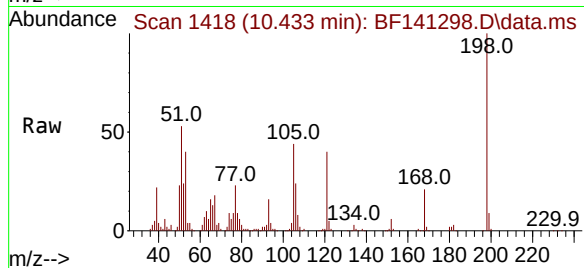
#65
4,6-Dinitro-2-methylphenol
Concen: 41.913 ng
RT: 10.433 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Tgt Ion:198 Resp: 111638
Ion Ratio Lower Upper
198 100
51 52.5 33.4 73.4
105 44.4 24.4 64.4

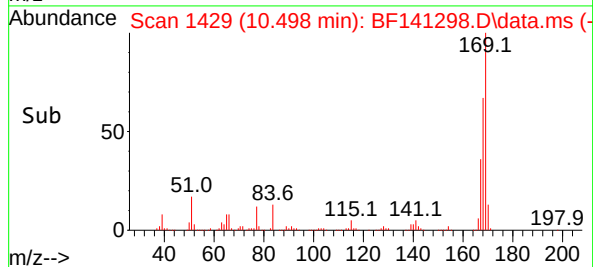
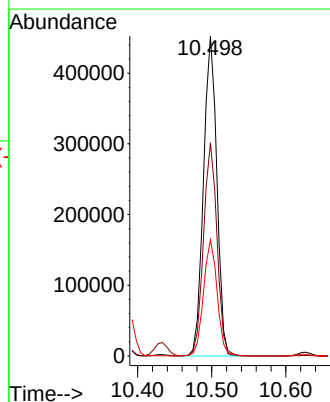
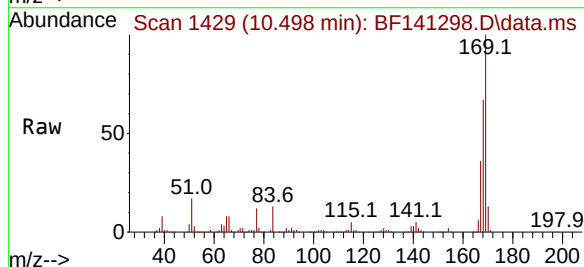
Manual Integrations
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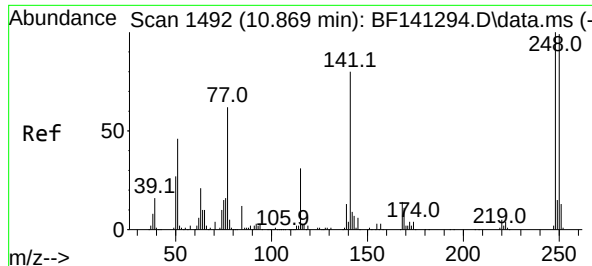
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#66
n-Nitrosodiphenylamine
Concen: 38.757 ng
RT: 10.498 min Scan# 1429
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

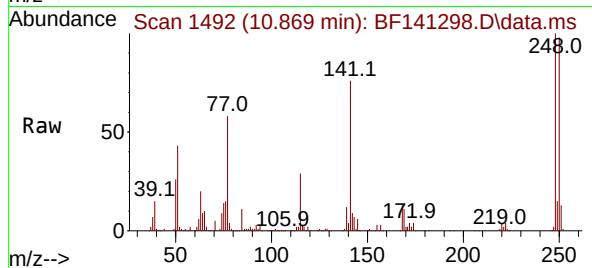
Tgt Ion:169 Resp: 564452
Ion Ratio Lower Upper
169 100
168 66.6 53.0 79.4
167 36.3 28.8 43.2





#67
4-Bromophenyl-phenylether
Concen: 39.477 ng
RT: 10.869 min Scan# 1492
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

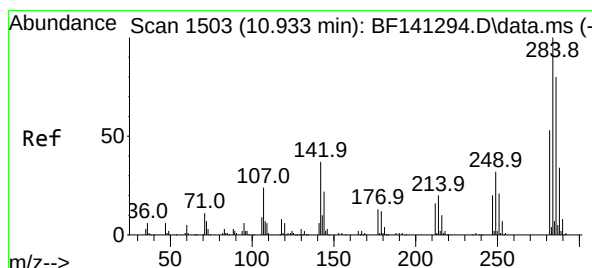
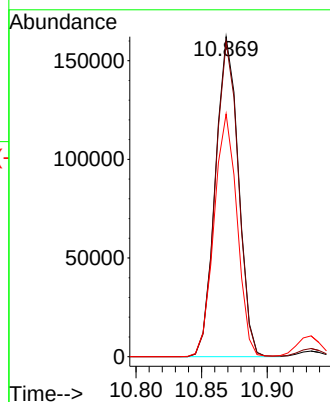
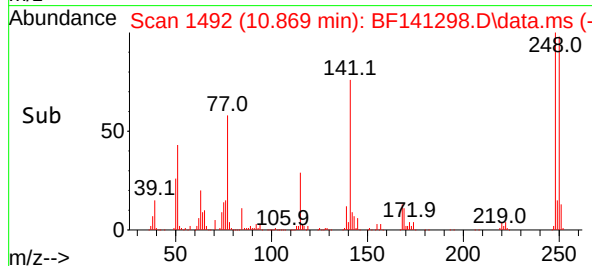
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



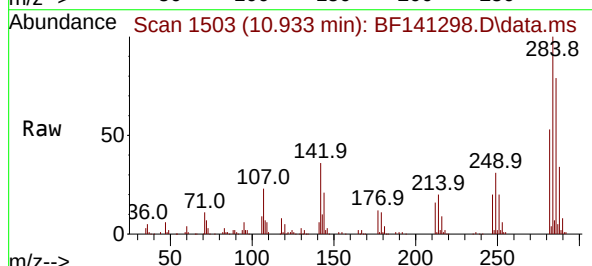
Tgt Ion:248 Resp: 199009
Ion Ratio Lower Upper
248 100
250 98.4 79.0 118.4
141 75.9 63.7 95.5

Manual Integrations
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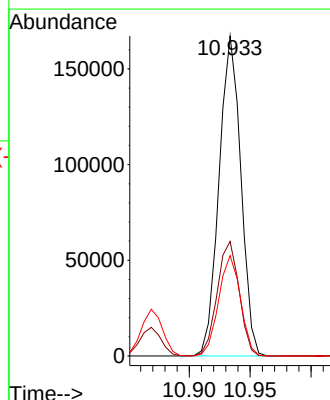
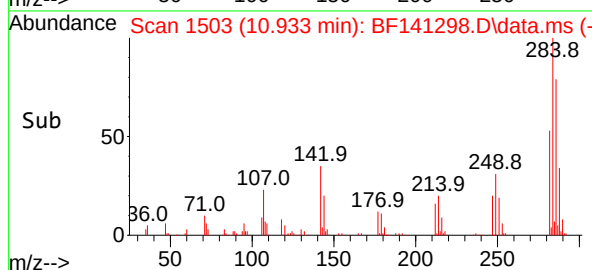
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

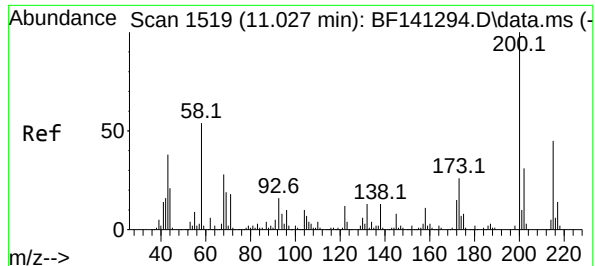


#68
Hexachlorobenzene
Concen: 38.929 ng
RT: 10.933 min Scan# 1503
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31



Tgt Ion:284 Resp: 208171
Ion Ratio Lower Upper
284 100
142 35.8 29.5 44.3
249 31.3 25.4 38.2





#69

Atrazine

Concen: 39.215 ng

RT: 11.028 min Scan# 1519

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

ICVBF012925

Tgt Ion:200 Resp: 190958

Ion Ratio Lower Upper

200 100

173 25.7 5.9 45.9

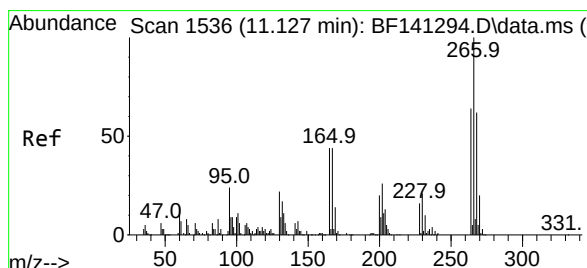
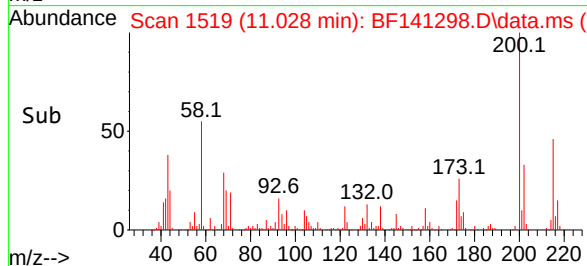
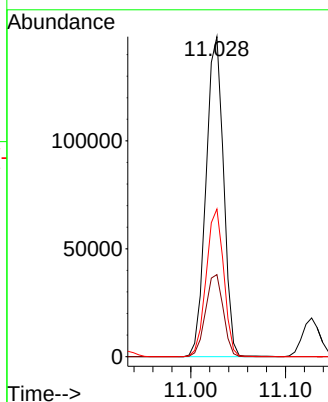
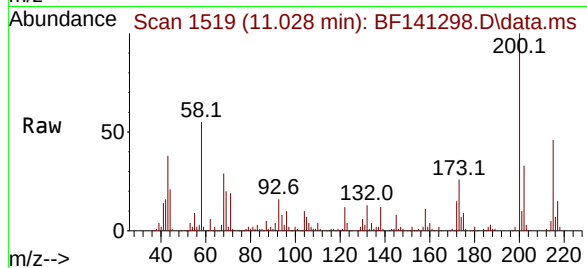
215 46.1 25.2 65.2

Manual Integrations

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Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#70

Pentachlorophenol

Concen: 40.973 ng

RT: 11.128 min Scan# 1536

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

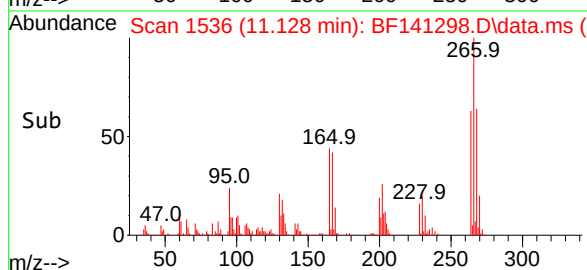
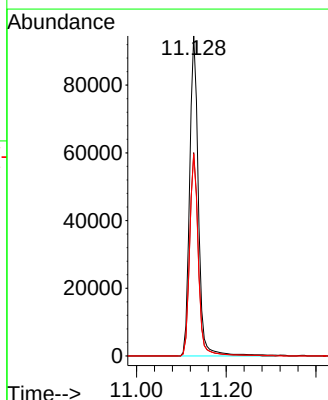
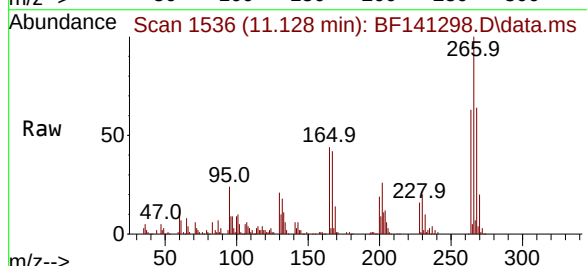
Tgt Ion:266 Resp: 128300

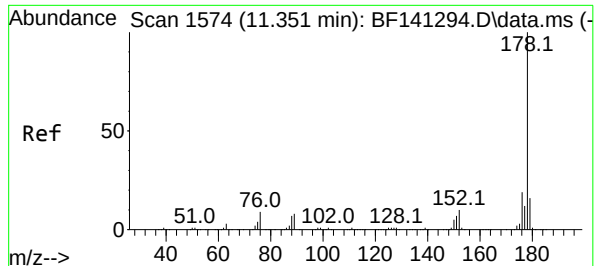
Ion Ratio Lower Upper

266 100

268 63.6 49.9 74.9

264 63.0 51.0 76.4





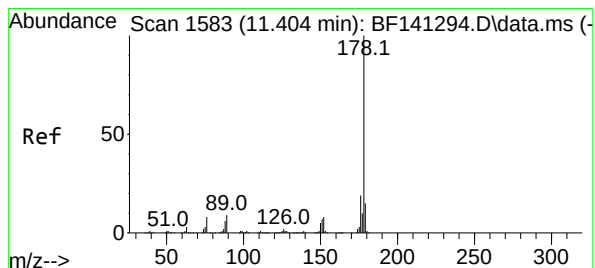
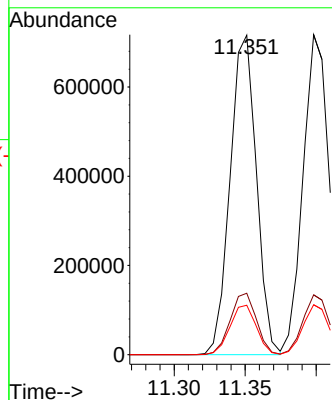
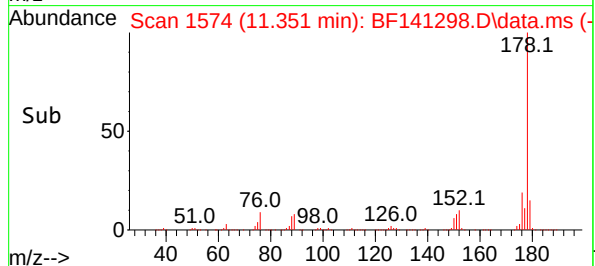
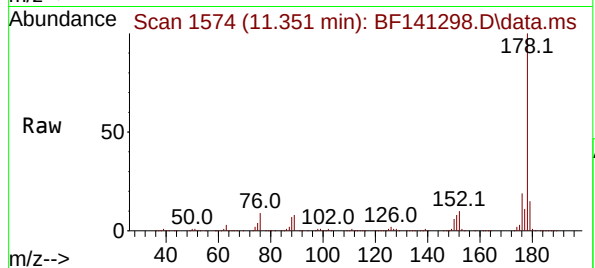
#71
Phenanthrene
Concen: 38.117 ng
RT: 11.351 min Scan# 1574
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Tgt Ion:178 Resp: 922625
Ion Ratio Lower Upper
178 100
176 19.2 15.3 22.9
179 15.5 12.5 18.7

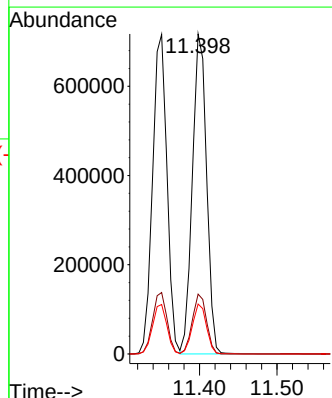
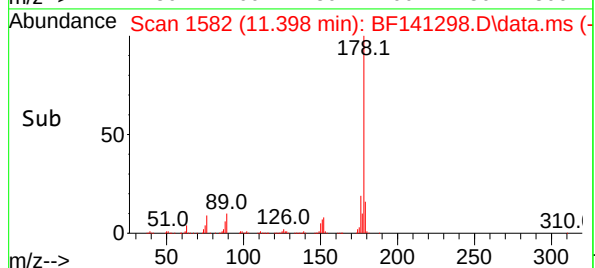
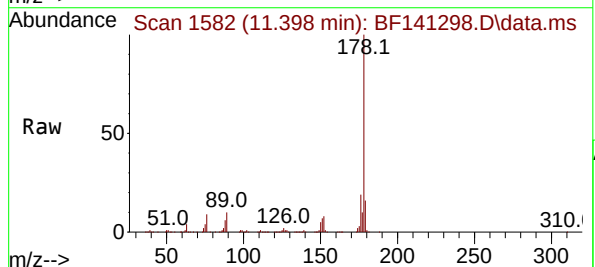
Manual Integrations
APPROVED

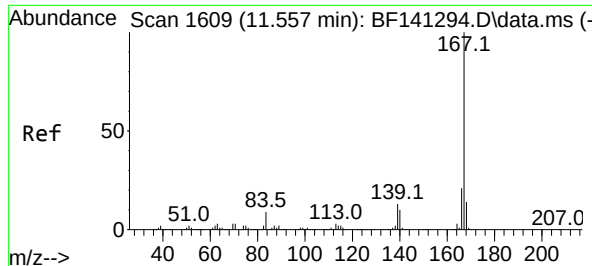
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#72
Anthracene
Concen: 38.484 ng
RT: 11.398 min Scan# 1582
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

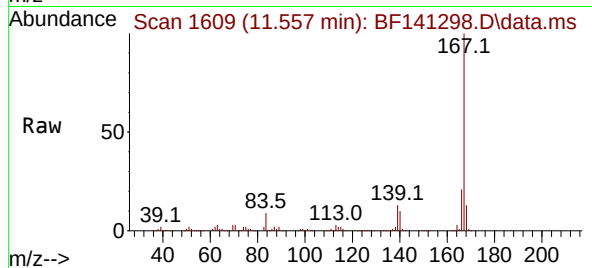
Tgt Ion:178 Resp: 912703
Ion Ratio Lower Upper
178 100
176 18.7 15.0 22.6
179 15.6 12.3 18.5





#73
Carbazole
Concen: 38.661 ng
RT: 11.557 min Scan# 1609
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

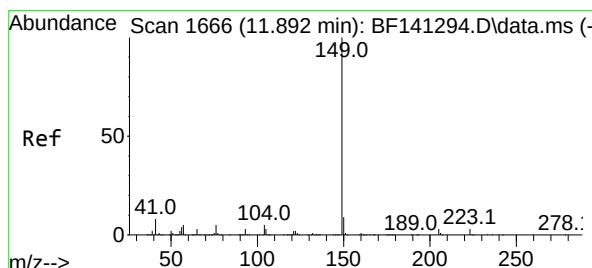
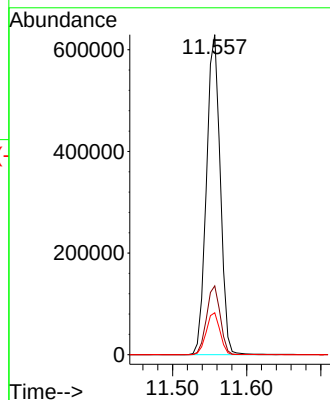
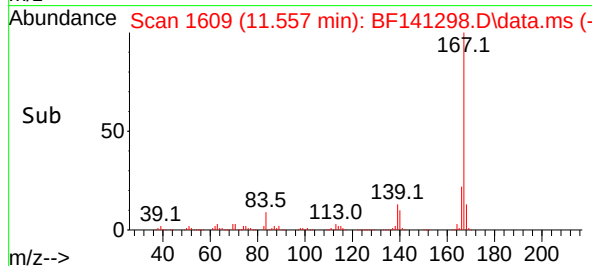
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



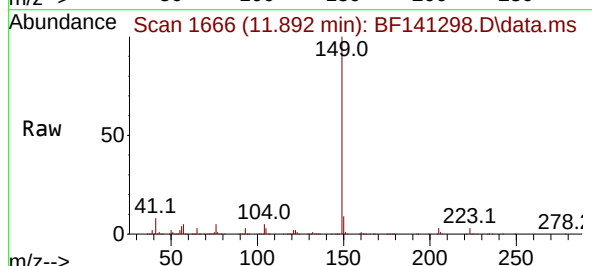
Tgt Ion:167 Resp: 813030
Ion Ratio Lower Upper
167 100
166 21.5 17.0 25.6
139 13.1 10.6 16.0

Manual Integrations
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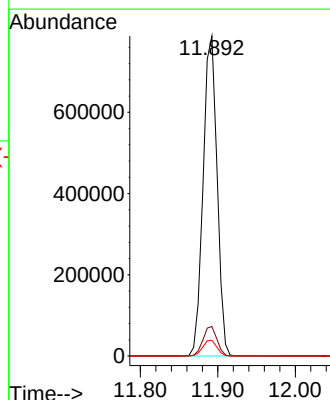
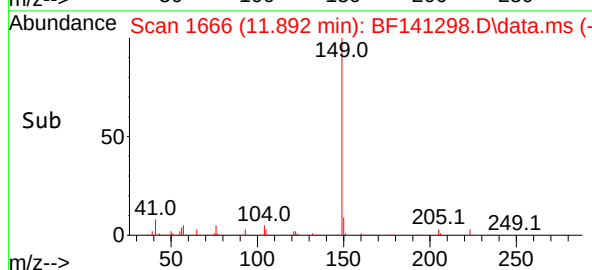
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

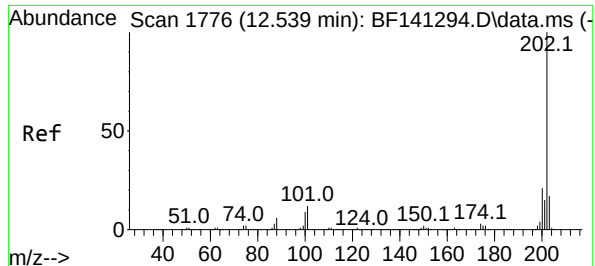


#74
Di-n-butylphthalate
Concen: 38.639 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31



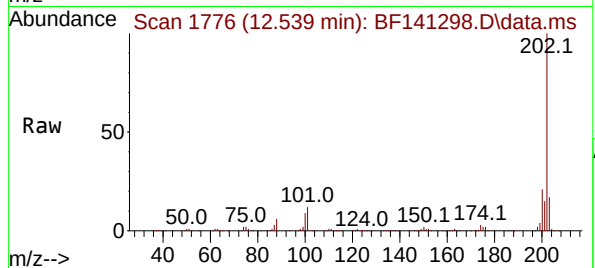
Tgt Ion:149 Resp: 984759
Ion Ratio Lower Upper
149 100
150 9.2 7.4 11.2
104 4.9 3.9 5.9





#75
Fluoranthene
Concen: 37.768 ng
RT: 12.539 min Scan# 1776
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

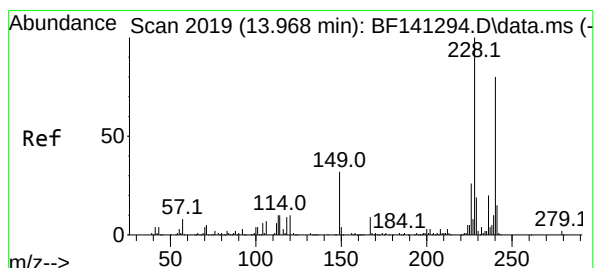
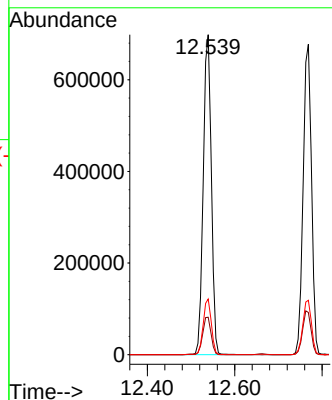
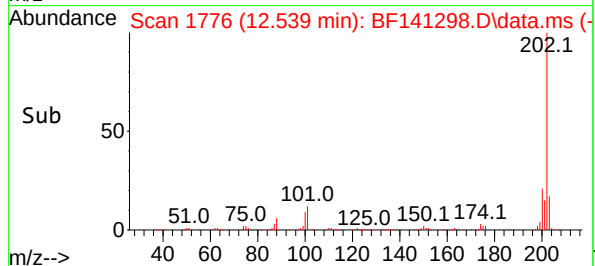
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



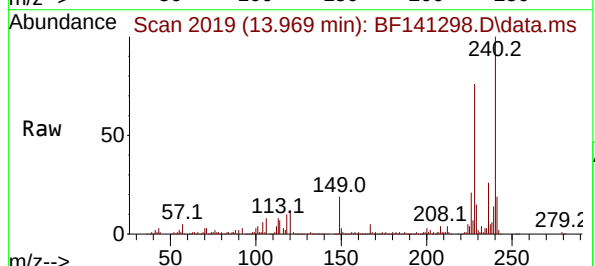
Tgt Ion:202 Resp: 90263
Ion Ratio Lower Upper
202 100
101 11.7 0.0 31.7
203 17.4 0.0 37.5

Manual Integrations
APPROVED

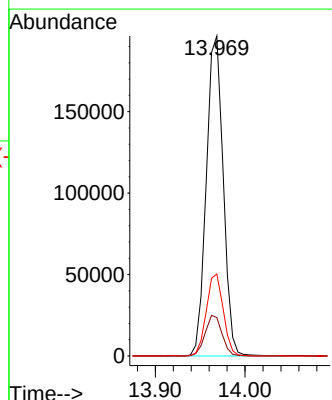
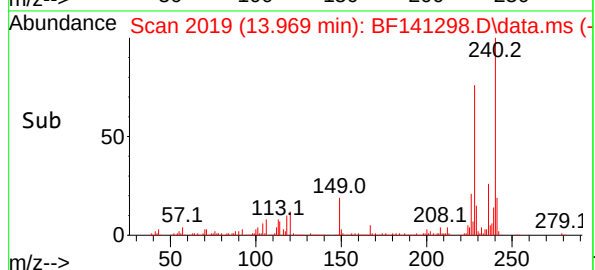
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

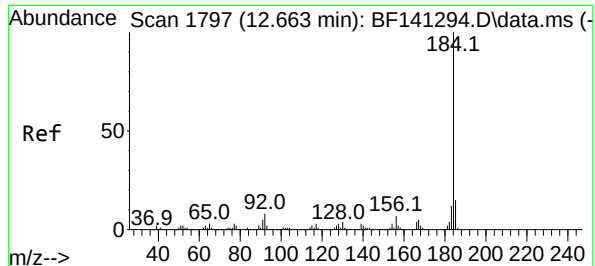


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.969 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31



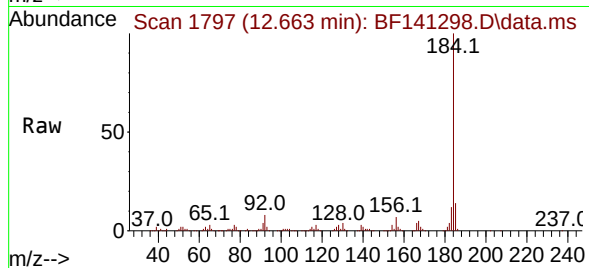
Tgt Ion:240 Resp: 257177
Ion Ratio Lower Upper
240 100
120 12.0 10.0 15.0
236 25.6 19.7 29.5





#77
Benzidine
Concen: 49.142 ng
RT: 12.663 min Scan# 1797
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

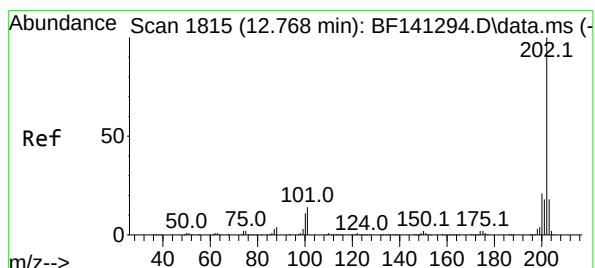
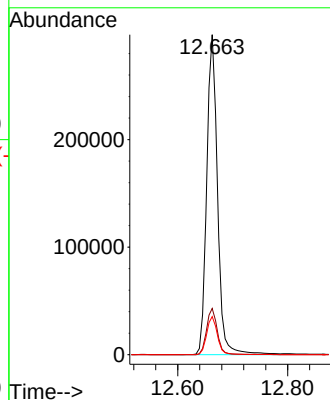
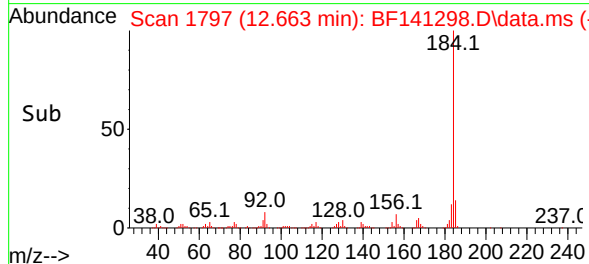
Instrument :
BNA_F
ClientSampleId :
ICVBF012925



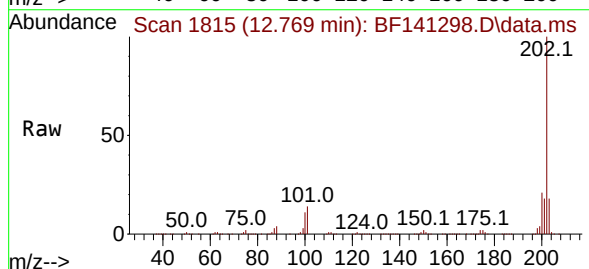
Tgt Ion:184 Resp: 40516
Ion Ratio Lower Upper
184 100
185 14.5 11.9 17.9
183 11.9 9.5 14.3

Manual Integrations
APPROVED

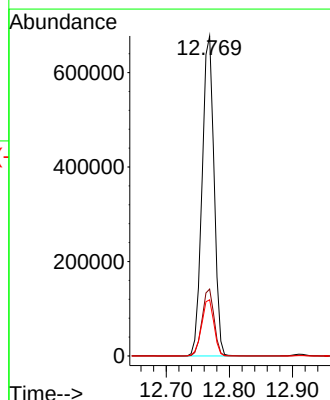
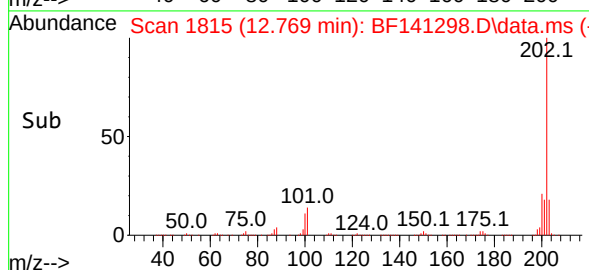
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

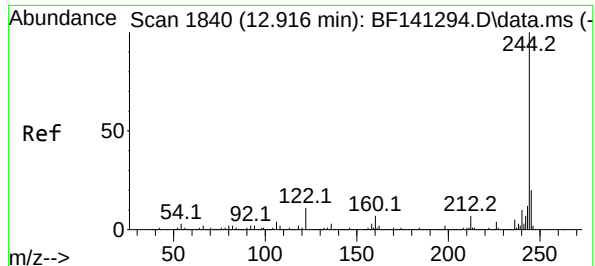


#78
Pyrene
Concen: 36.225 ng
RT: 12.769 min Scan# 1815
Delta R.T. -0.000 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31



Tgt Ion:202 Resp: 894269
Ion Ratio Lower Upper
202 100
200 20.9 17.0 25.4
203 17.5 14.3 21.5





#79

Terphenyl-d14

Concen: 72.460 ng

RT: 12.910 min Scan# 1839

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

ICVBF012925

Tgt Ion:244 Resp: 1208358

Ion Ratio Lower Upper

244 100

212 7.0 5.4 8.0

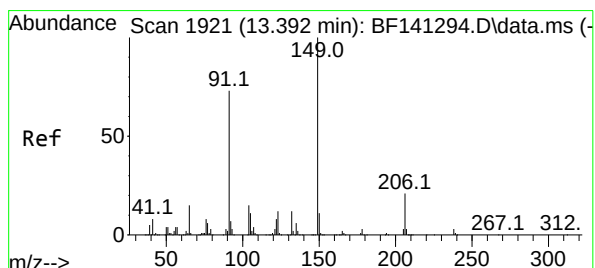
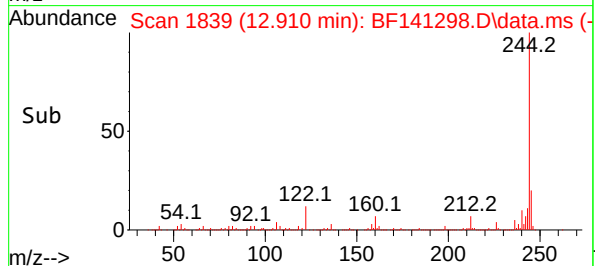
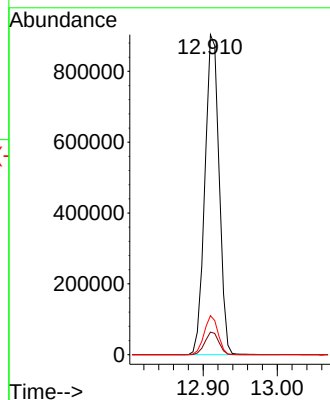
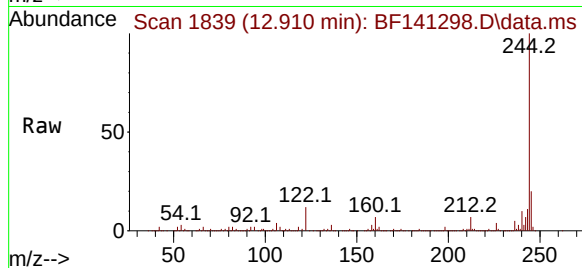
122 12.2 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#80

Butylbenzylphthalate

Concen: 37.660 ng

RT: 13.392 min Scan# 1921

Delta R.T. -0.000 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

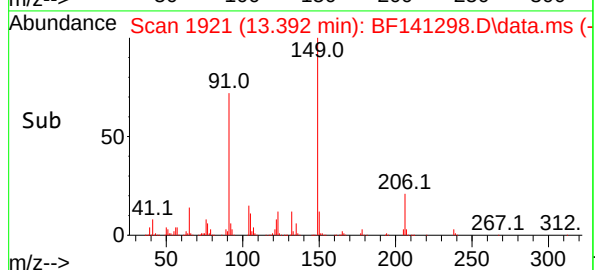
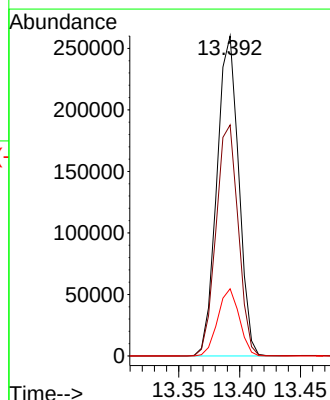
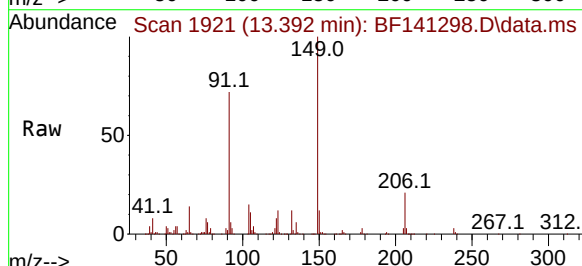
Tgt Ion:149 Resp: 324793

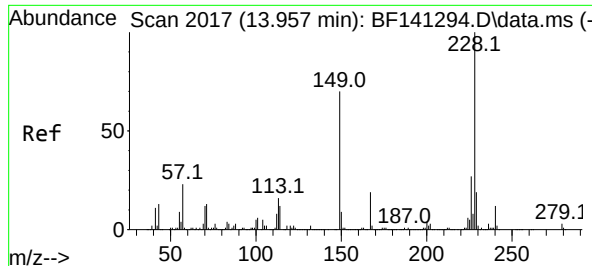
Ion Ratio Lower Upper

149 100

91 72.2 58.6 87.8

206 21.0 16.7 25.1





#81

Benzo(a)anthracene

Concen: 35.587 ng

RT: 13.957 min Scan# 2017

Delta R.T. -0.006 min

Lab File: BF141298.D

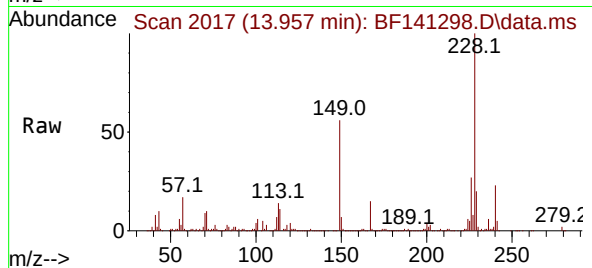
Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

ICVBF012925



Tgt Ion:228 Resp: 631550

Ion Ratio Lower Upper

228 100

226 27.3 21.4 32.2

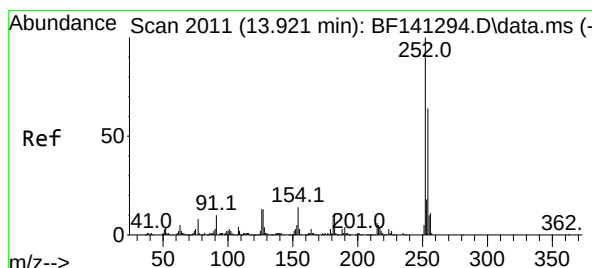
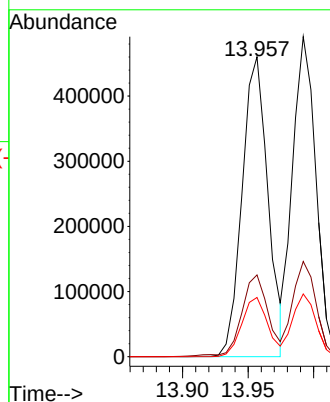
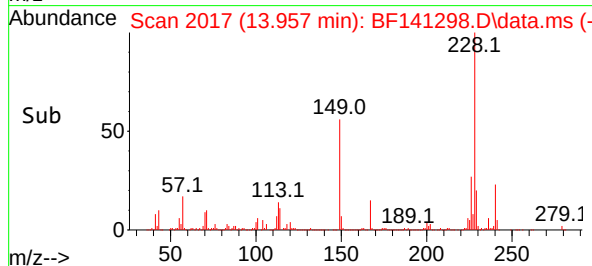
229 19.7 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#82

3,3'-Dichlorobenzidine

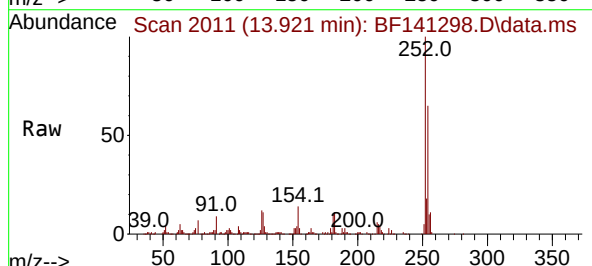
Concen: 38.774 ng

RT: 13.921 min Scan# 2011

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31



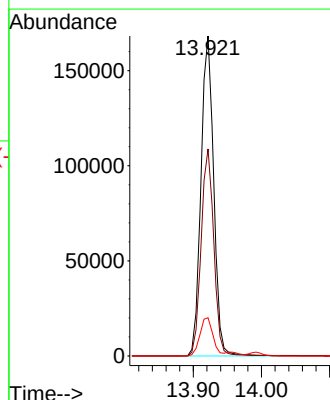
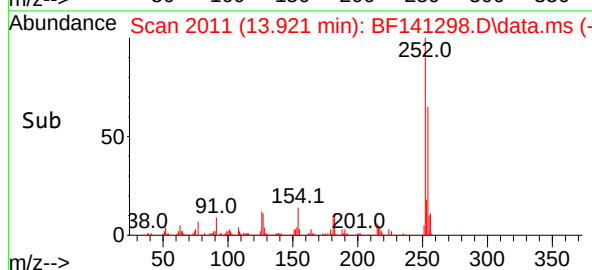
Tgt Ion:252 Resp: 218850

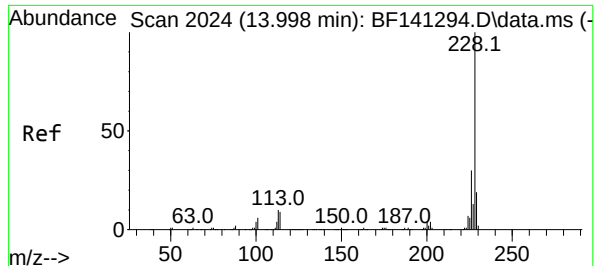
Ion Ratio Lower Upper

252 100

254 64.7 51.3 76.9

126 12.0 10.0 15.0





#83

Chrysene

Concen: 37.508 ng

RT: 13.992 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

ICVBF012925

Tgt Ion:228 Resp: 610038

Ion Ratio Lower Upper

228 100

226 29.8 24.1 36.1

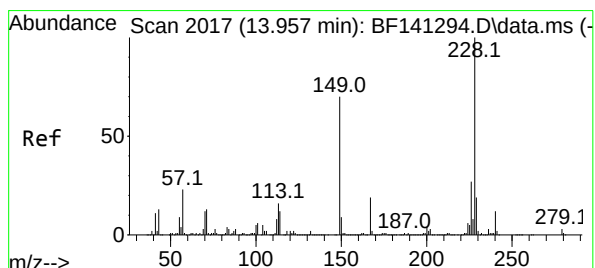
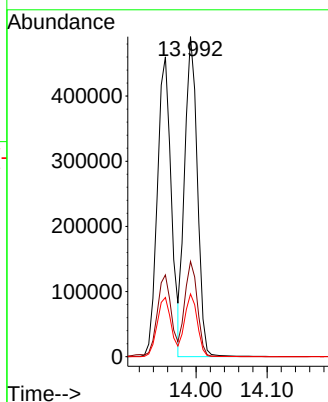
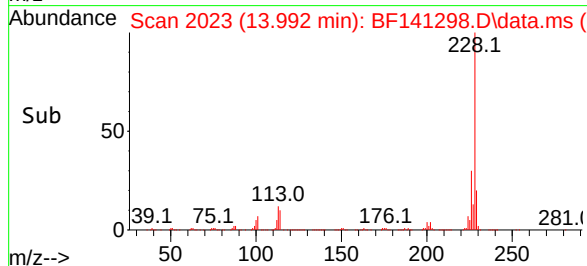
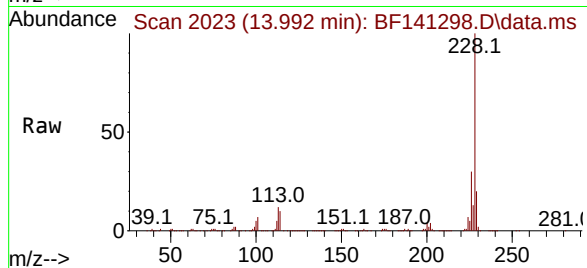
229 19.6 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 36.620 ng

RT: 13.951 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

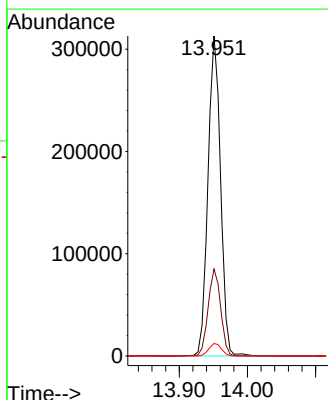
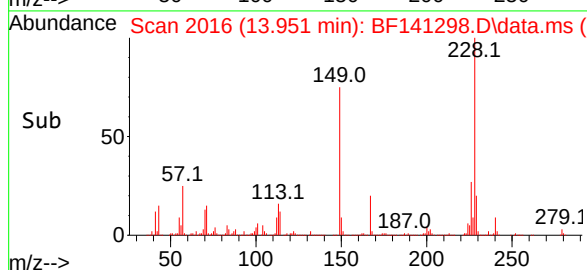
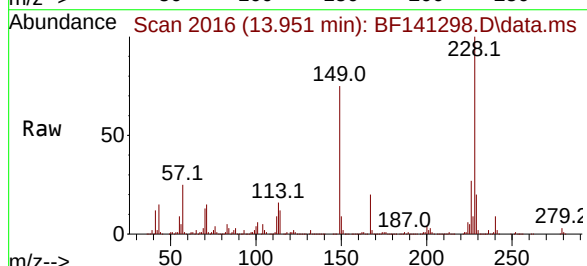
Tgt Ion:149 Resp: 400642

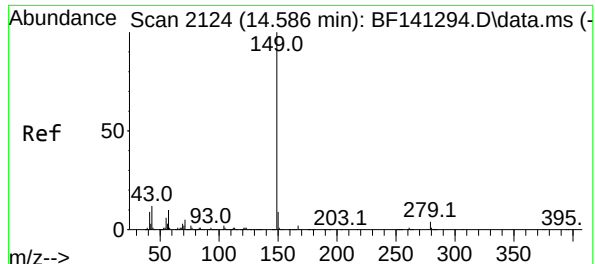
Ion Ratio Lower Upper

149 100

167 27.2 21.8 32.8

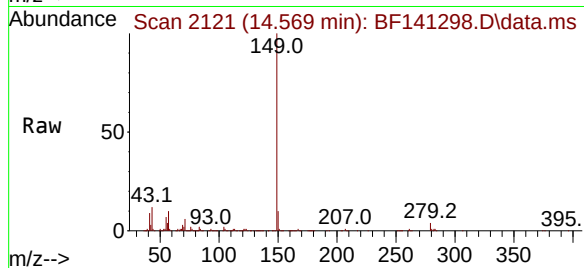
279 3.9 3.3 4.9





#85
Di-n-octyl phthalate
Concen: 37.807 ng
RT: 14.569 min Scan# 2124
Delta R.T. -0.018 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

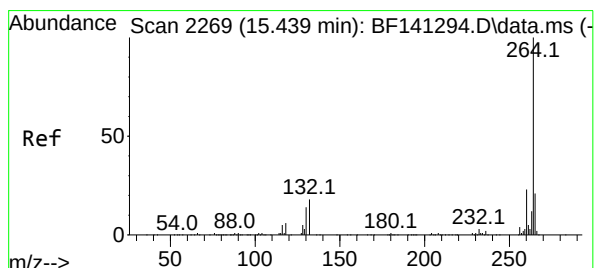
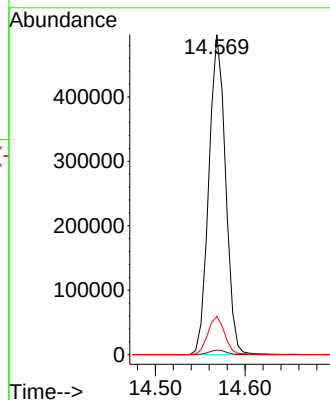
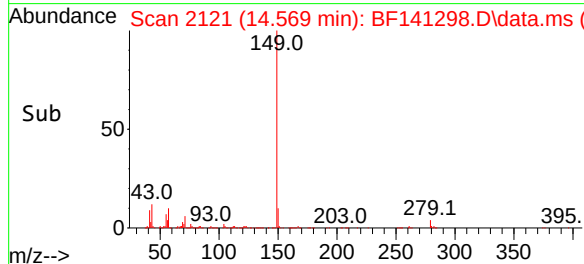
Instrument :
BNA_F
Client Sample Id :
ICVBF012925



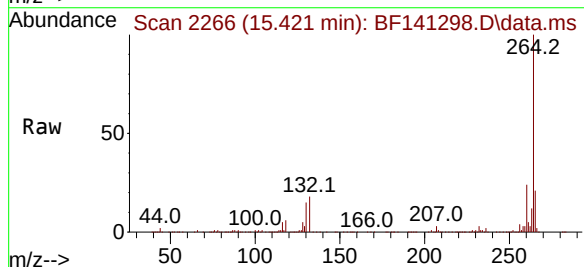
Tgt Ion:149 Resp: 642439
Ion Ratio Lower Upper
149 100
167 1.5 1.3 1.9
43 12.1 9.8 14.8

Manual Integrations
APPROVED

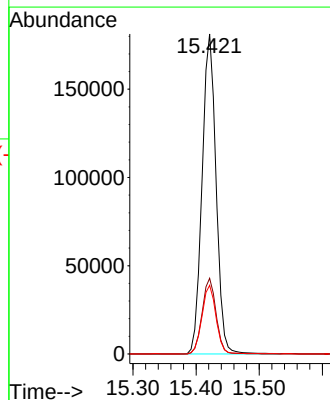
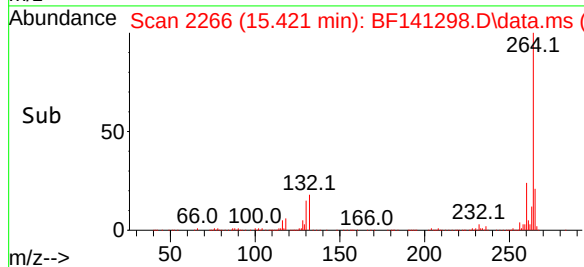
Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025

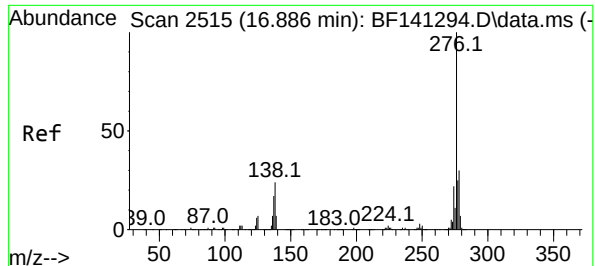


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.421 min Scan# 2266
Delta R.T. -0.018 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31



Tgt Ion:264 Resp: 279455
Ion Ratio Lower Upper
264 100
260 23.7 18.6 27.8
265 21.5 16.7 25.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 37.626 ng

RT: 16.868 min Scan# 2194

Delta R.T. -0.029 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

ICVBF012925

Tgt Ion:276 Resp: 67865

Ion Ratio Lower Upper

276 100

138 27.3 21.7 32.5

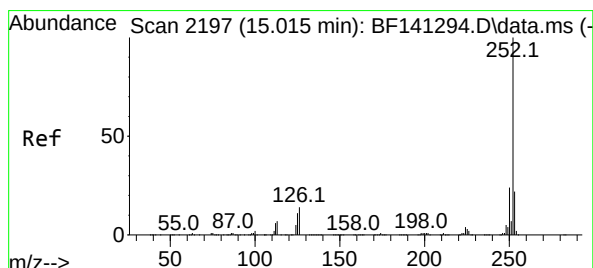
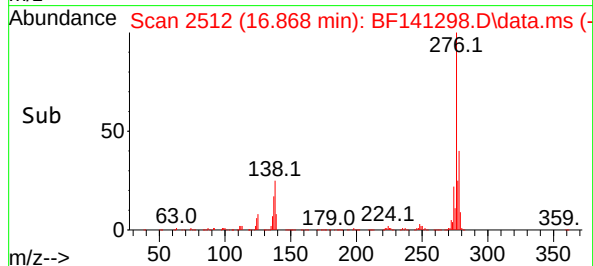
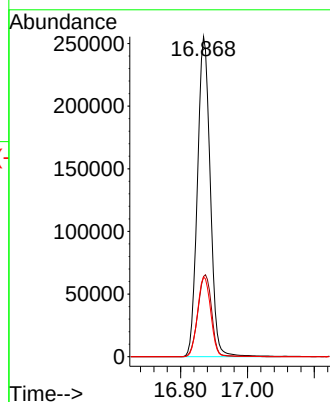
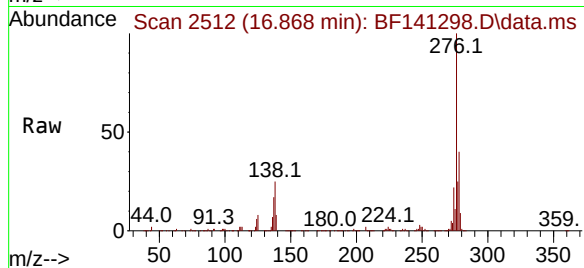
277 25.7 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#88

Benzo(b)fluoranthene

Concen: 38.861 ng

RT: 14.998 min Scan# 2194

Delta R.T. -0.024 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

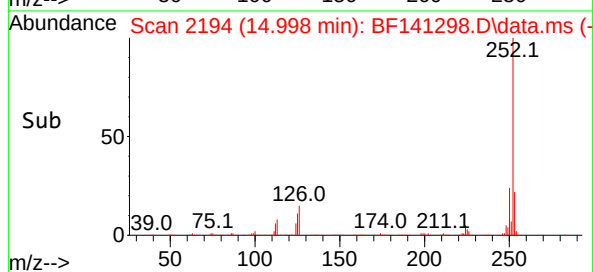
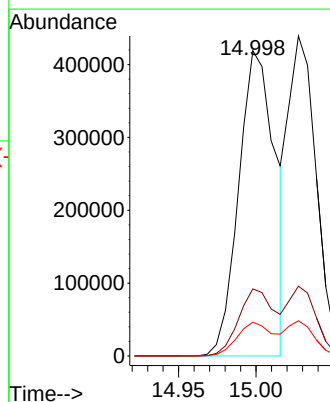
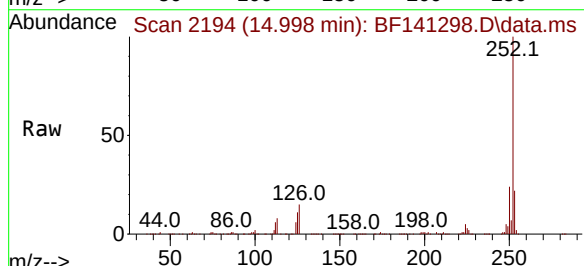
Tgt Ion:252 Resp: 683111

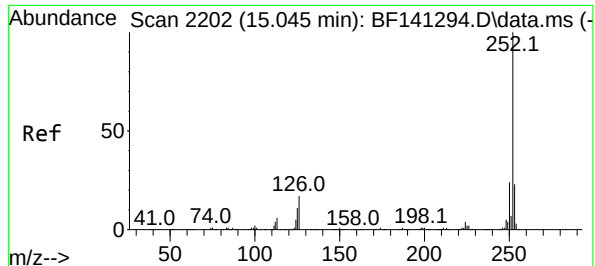
Ion Ratio Lower Upper

252 100

253 21.9 17.4 26.2

125 11.0 8.6 12.8





#89

Benzo(k)fluoranthene

Concen: 35.766 ng

RT: 15.027 min Scan# 2199

Delta R.T. -0.024 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

ClientSampleId :

ICVBF012925

Tgt Ion:252 Resp: 556960

Ion Ratio Lower Upper

252 100

253 21.8 17.6 26.4

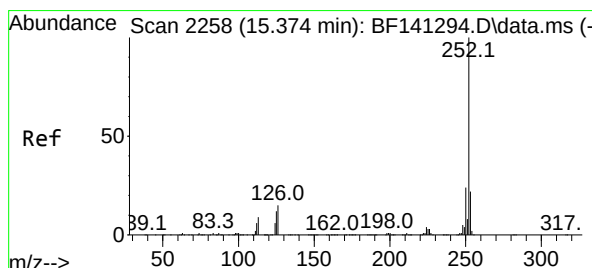
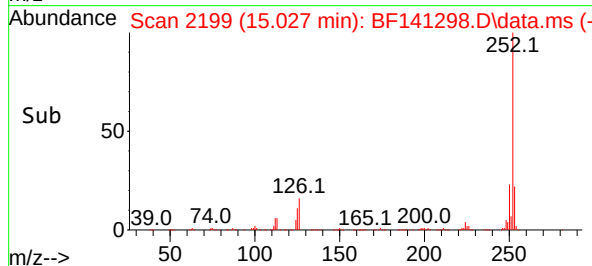
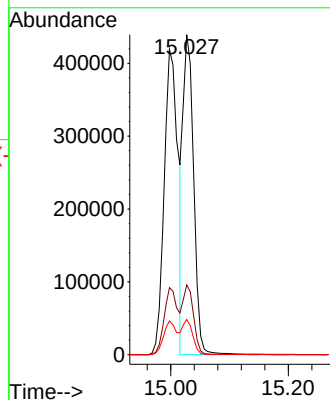
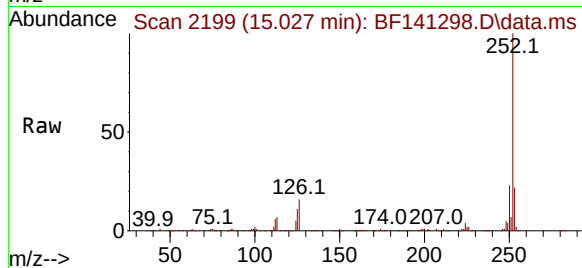
125 11.0 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 01/30/2025

Supervised By :mohammad ahmed 02/04/2025



#90

Benzo(a)pyrene

Concen: 38.209 ng

RT: 15.363 min Scan# 2256

Delta R.T. -0.018 min

Lab File: BF141298.D

Acq: 29 Jan 2025 17:31

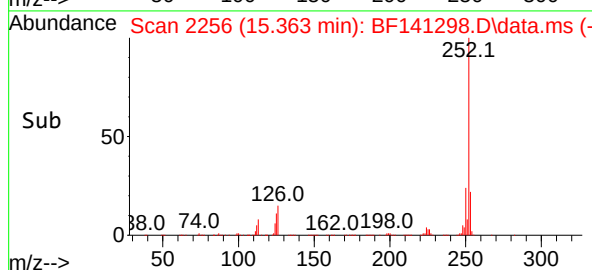
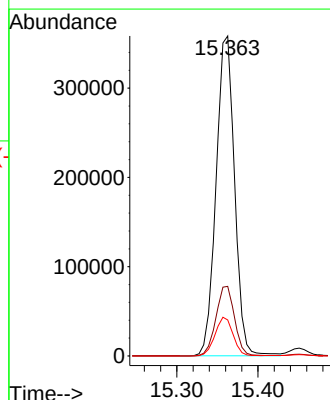
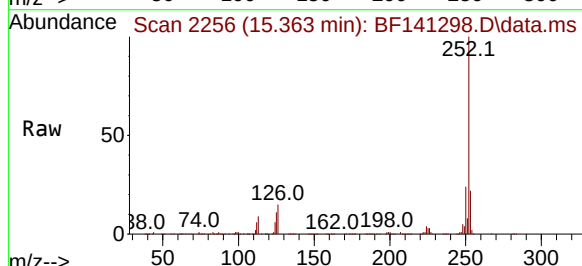
Tgt Ion:252 Resp: 567574

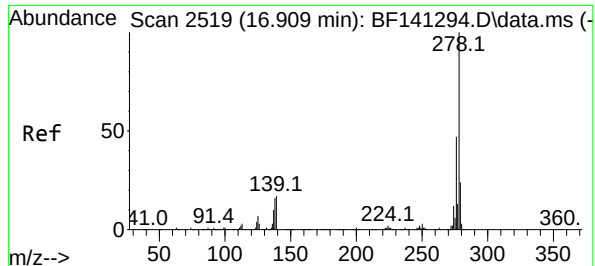
Ion Ratio Lower Upper

252 100

253 21.7 17.2 25.8

125 11.2 9.4 14.2





#91
Dibenzo(a,h)anthracene
Concen: 38.007 ng
RT: 16.886 min Scan# 2515
Delta R.T. -0.035 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Instrument :

BNA_F

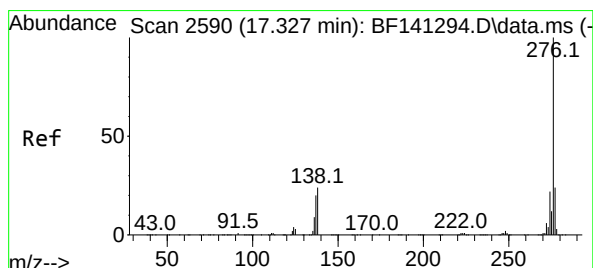
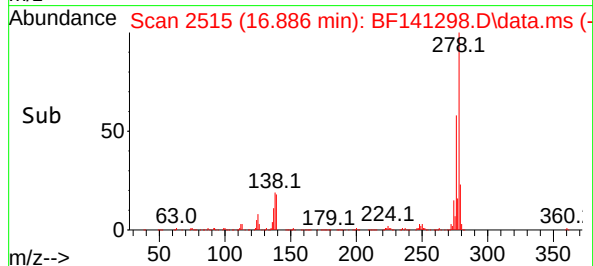
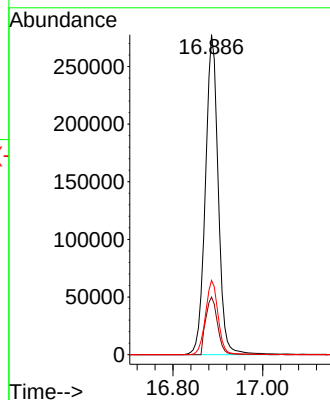
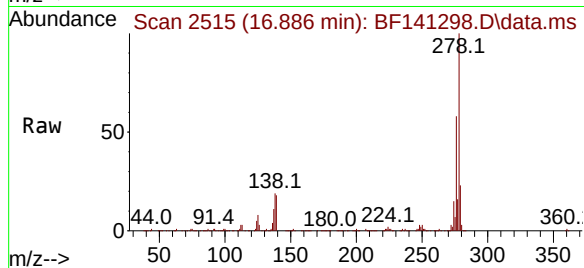
ClientSampleId :

ICVBF012925

Tgt Ion:278 Resp: 551534
Ion Ratio Lower Upper
278 100
139 18.0 13.9 20.9
279 23.2 18.8 28.2

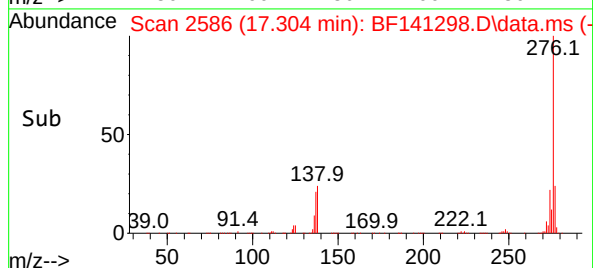
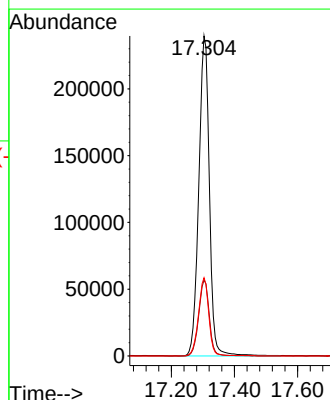
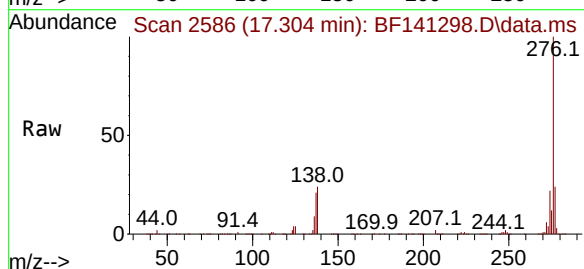
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 01/30/2025
Supervised By :mohammad ahmed 02/04/2025



#92
Benzo(g,h,i)perylene
Concen: 37.101 ng
RT: 17.304 min Scan# 2586
Delta R.T. -0.041 min
Lab File: BF141298.D
Acq: 29 Jan 2025 17:31

Tgt Ion:276 Resp: 559807
Ion Ratio Lower Upper
276 100
277 23.8 19.2 28.8
138 24.4 19.0 28.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141298.D
Acq On : 29 Jan 2025 17:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Quant Time: Jan 30 03:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	98	0.00
2	1,4-Dioxane	0.573	0.534	6.8	97	0.00
3	Pyridine	1.380	1.326	3.9	98	-0.01
4	n-Nitrosodimethylamine	0.789	0.749	5.1	97	-0.03
5 S	2-Fluorophenol	1.303	1.221	6.3	99	0.00
6	Aniline	1.403	1.383	1.4	99	0.00
7 S	Phenol-d6	1.657	1.546	6.7	99	-0.01
8	2-Chlorophenol	1.396	1.309	6.2	99	-0.01
9	Benzaldehyde	0.960	0.887	7.6	97	0.00
10 C	Phenol	1.757	1.664	5.3	99	-0.01
11	bis(2-Chloroethyl)ether	1.347	1.259	6.5	100	-0.01
12	1,3-Dichlorobenzene	1.540	1.435	6.8	98	0.00
13 C	1,4-Dichlorobenzene	1.547	1.465	5.3	100	0.00
14	1,2-Dichlorobenzene	1.448	1.348	6.9	98	0.00
15	Benzyl Alcohol	1.133	1.075	5.1	97	0.00
16	2,2'-oxybis(1-Chloropropane	2.342	2.204	5.9	98	0.00
17	2-Methylphenol	1.135	1.037	8.6	97	0.00
18	Hexachloroethane	0.571	0.543	4.9	100	0.00
19 P	n-Nitroso-di-n-propylamine	0.985	0.907	7.9	99	-0.02
20	3+4-Methylphenols	1.393	1.302	6.5	99	-0.01
21 I	Naphthalene-d8	1.000	1.000	0.0	99	0.00
22	Acetophenone	0.475	0.436	8.2	99	0.00
23 S	Nitrobenzene-d5	0.379	0.359	5.3	100	0.00
24	Nitrobenzene	0.393	0.373	5.1	99	-0.01
25	Isophorone	0.656	0.614	6.4	99	0.00
26 C	2-Nitrophenol	0.185	0.177	4.3	99	0.00
27	2,4-Dimethylphenol	0.236	0.225	4.7	99	0.00
28	bis(2-Chloroethoxy)methane	0.418	0.392	6.2	99	0.00
29 C	2,4-Dichlorophenol	0.289	0.272	5.9	99	0.00
30	1,2,4-Trichlorobenzene	0.330	0.301	8.8	98	0.00
31	Naphthalene	1.057	0.981	7.2	99	0.00
32	Benzoic acid	0.217	0.225	-3.7	101	-0.04
33	4-Chloroaniline	0.358	0.333	7.0	97	0.00
34 C	Hexachlorobutadiene	0.194	0.177	8.8	98	0.00
35	Caprolactam	0.094	0.089	5.3	99	-0.02
36 C	4-Chloro-3-methylphenol	0.310	0.290	6.5	100	0.00
37	2-Methylnaphthalene	0.672	0.619	7.9	98	0.00
38	1-Methylnaphthalene	0.660	0.620	6.1	101	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	99	0.00
40	1,2,4,5-Tetrachlorobenzene	0.569	0.530	6.9	98	0.00
41 P	Hexachlorocyclopentadiene	0.168	0.168	0.0	97	0.00
42 S	2,4,6-Tribromophenol	0.183	0.172	6.0	99	0.00
43 C	2,4,6-Trichlorophenol	0.372	0.360	3.2	98	0.00
44	2,4,5-Trichlorophenol	0.405	0.375	7.4	98	0.00
45 S	2-Fluorobiphenyl	1.299	1.185	8.8	99	0.00
46	1,1'-Biphenyl	1.560	1.447	7.2	98	0.00
47	2-Chloronaphthalene	1.216	1.120	7.9	99	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
 Data File : BF141298.D
 Acq On : 29 Jan 2025 17:31
 Operator : RC/JU
 Sample : SSTDICV040
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 ICVBF012925

Quant Time: Jan 30 03:16:08 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 29 17:41:25 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	0.382	0.363	5.0	99	0.00
49	Acenaphthylene	1.702	1.592	6.5	99	0.00
50	Dimethylphthalate	1.351	1.246	7.8	99	0.00
51	2,6-Dinitrotoluene	0.314	0.294	6.4	98	0.00
52 C	Acenaphthene	1.216	1.131	7.0	99	0.00
53	3-Nitroaniline	0.307	0.293	4.6	96	0.00
54 P	2,4-Dinitrophenol	0.146	0.145	0.7	97	-0.01
55	Dibenzofuran	1.627	1.506	7.4	98	0.00
56 P	4-Nitrophenol	0.225	0.220	2.2	97	-0.01
57	2,4-Dinitrotoluene	0.406	0.389	4.2	100	-0.01
58	Fluorene	1.262	1.150	8.9	97	0.00
59	2,3,4,6-Tetrachlorophenol	0.319	0.302	5.3	98	0.00
60	Diethylphthalate	1.310	1.222	6.7	99	0.00
61	4-Chlorophenyl-phenylether	0.617	0.558	9.6	97	0.00
62	4-Nitroaniline	0.302	0.285	5.6	97	-0.01
63	Azobenzene	1.311	1.213	7.5	98	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	98	0.00
65	4,6-Dinitro-2-methylphenol	0.118	0.124	-5.1	97	0.00
66 c	n-Nitrosodiphenylamine	0.647	0.627	3.1	98	0.00
67	4-Bromophenyl-phenylether	0.224	0.221	1.3	100	0.00
68	Hexachlorobenzene	0.238	0.231	2.9	99	0.00
69	Atrazine	0.216	0.212	1.9	98	0.00
70 C	Pentachlorophenol	0.139	0.142	-2.2	98	0.00
71	Phenanthrene	1.075	1.024	4.7	98	0.00
72	Anthracene	1.053	1.013	3.8	99	0.00
73	Carbazole	0.934	0.903	3.3	99	0.00
74	Di-n-butylphthalate	1.132	1.093	3.4	99	0.00
75 C	Fluoranthene	1.062	1.002	5.6	97	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	99	0.00
77	Benzydine	0.641	0.788	-22.9	106	0.00
78	Pyrene	1.920	1.739	9.4	98	0.00
79 S	Terphenyl-d14	1.297	1.175	9.4	98	0.00
80	Butylbenzylphthalate	0.671	0.631	6.0	100	0.00
81	Benzo(a)anthracene	1.380	1.228	11.0	95	0.00
82	3,3'-Dichlorobenzidine	0.439	0.425	3.2	100	0.00
83	Chrysene	1.265	1.186	6.2	103	0.00
84	Bis(2-ethylhexyl)phthalate	0.851	0.779	8.5	98	0.00
85 c	Di-n-octyl phthalate	1.321	1.249	5.5	100	-0.02
86 I	Perylene-d12	1.000	1.000	0.0	100	-0.02
87	Indeno(1,2,3-cd)pyrene	1.291	1.214	6.0	97	-0.03
88	Benzo(b)fluoranthene	1.258	1.222	2.9	109	-0.02
89	Benzo(k)fluoranthene	1.114	0.997	10.5	92	-0.02
90 C	Benzo(a)pyrene	1.063	1.016	4.4	100	-0.02
91	Dibenzo(a,h)anthracene	1.039	0.987	5.0	97	-0.04
92	Benzo(g,h,i)perylene	1.080	1.002	7.2	96	-0.04

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141298.D
Acq On : 29 Jan 2025 17:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Quant Time: Jan 30 03:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141298.D
Acq On : 29 Jan 2025 17:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Quant Time: Jan 30 03:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	98	0.00
2	1,4-Dioxane	40.000	37.296	6.8	97	0.00
3	Pyridine	40.000	38.413	4.0	98	-0.01
4	n-Nitrosodimethylamine	40.000	37.977	5.1	97	-0.03
5 S	2-Fluorophenol	80.000	74.963	6.3	99	0.00
6	Aniline	40.000	39.437	1.4	99	0.00
7 S	Phenol-d6	80.000	74.641	6.7	99	-0.01
8	2-Chlorophenol	40.000	37.505	6.2	99	-0.01
9	Benzaldehyde	40.000	36.965	7.6	97	0.00
10 C	Phenol	40.000	37.888	5.3	99	-0.01
11	bis(2-Chloroethyl)ether	40.000	37.387	6.5	100	-0.01
12	1,3-Dichlorobenzene	40.000	37.288	6.8	98	0.00
13 C	1,4-Dichlorobenzene	40.000	37.885	5.3	100	0.00
14	1,2-Dichlorobenzene	40.000	37.241	6.9	98	0.00
15	Benzyl Alcohol	40.000	37.952	5.1	97	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	37.636	5.9	98	0.00
17	2-Methylphenol	40.000	36.544	8.6	97	0.00
18	Hexachloroethane	40.000	38.094	4.8	100	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	36.848	7.9	99	-0.02
20	3+4-Methylphenols	40.000	37.364	6.6	99	-0.01
21 I	Naphthalene-d8	20.000	20.000	0.0	99	0.00
22	Acetophenone	40.000	36.717	8.2	99	0.00
23 S	Nitrobenzene-d5	80.000	75.630	5.5	100	0.00
24	Nitrobenzene	40.000	37.927	5.2	99	-0.01
25	Isophorone	40.000	37.439	6.4	99	0.00
26 C	2-Nitrophenol	40.000	38.289	4.3	99	0.00
27	2,4-Dimethylphenol	40.000	38.055	4.9	99	0.00
28	bis(2-Chloroethoxy)methane	40.000	37.460	6.3	99	0.00
29 C	2,4-Dichlorophenol	40.000	37.675	5.8	99	0.00
30	1,2,4-Trichlorobenzene	40.000	36.488	8.8	98	0.00
31	Naphthalene	40.000	37.128	7.2	99	0.00
32	Benzoic acid	40.000	41.534	-3.8	101	-0.04
33	4-Chloroaniline	40.000	37.214	7.0	97	0.00
34 C	Hexachlorobutadiene	40.000	36.676	8.3	98	0.00
35	Caprolactam	40.000	37.662	5.8	99	-0.02
36 C	4-Chloro-3-methylphenol	40.000	37.480	6.3	100	0.00
37	2-Methylnaphthalene	40.000	36.898	7.8	98	0.00
38	1-Methylnaphthalene	40.000	37.570	6.1	101	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	99	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	37.226	6.9	98	0.00
41 P	Hexachlorocyclopentadiene	40.000	39.961	0.1	97	0.00
42 S	2,4,6-Tribromophenol	80.000	75.161	6.0	99	0.00
43 C	2,4,6-Trichlorophenol	40.000	38.625	3.4	98	0.00
44	2,4,5-Trichlorophenol	40.000	36.969	7.6	98	0.00
45 S	2-Fluorobiphenyl	80.000	72.938	8.8	99	0.00
46	1,1'-Biphenyl	40.000	37.111	7.2	98	0.00
47	2-Chloronaphthalene	40.000	36.837	7.9	99	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141298.D
Acq On : 29 Jan 2025 17:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Quant Time: Jan 30 03:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	37.970	5.1	99	0.00
49	Acenaphthylene	40.000	37.416	6.5	99	0.00
50	Dimethylphthalate	40.000	36.904	7.7	99	0.00
51	2,6-Dinitrotoluene	40.000	37.459	6.4	98	0.00
52 C	Acenaphthene	40.000	37.206	7.0	99	0.00
53	3-Nitroaniline	40.000	38.150	4.6	96	0.00
54 P	2,4-Dinitrophenol	40.000	39.734	0.7	97	-0.01
55	Dibenzofuran	40.000	37.012	7.5	98	0.00
56 P	4-Nitrophenol	40.000	39.089	2.3	97	-0.01
57	2,4-Dinitrotoluene	40.000	38.327	4.2	100	-0.01
58	Fluorene	40.000	36.451	8.9	97	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	37.902	5.2	98	0.00
60	Diethylphthalate	40.000	37.316	6.7	99	0.00
61	4-Chlorophenyl-phenylether	40.000	36.180	9.6	97	0.00
62	4-Nitroaniline	40.000	37.665	5.8	97	-0.01
63	Azobenzene	40.000	37.020	7.4	98	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	98	0.00
65	4,6-Dinitro-2-methylphenol	40.000	41.913	-4.8	97	0.00
66 c	n-Nitrosodiphenylamine	40.000	38.757	3.1	98	0.00
67	4-Bromophenyl-phenylether	40.000	39.477	1.3	100	0.00
68	Hexachlorobenzene	40.000	38.929	2.7	99	0.00
69	Atrazine	40.000	39.215	2.0	98	0.00
70 C	Pentachlorophenol	40.000	40.973	-2.4	98	0.00
71	Phenanthrene	40.000	38.117	4.7	98	0.00
72	Anthracene	40.000	38.484	3.8	99	0.00
73	Carbazole	40.000	38.661	3.3	99	0.00
74	Di-n-butylphthalate	40.000	38.639	3.4	99	0.00
75 C	Fluoranthene	40.000	37.768	5.6	97	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	99	0.00
77	Benzydine	40.000	49.142	-22.9	106	0.00
78	Pyrene	40.000	36.225	9.4	98	0.00
79 S	Terphenyl-d14	80.000	72.460	9.4	98	0.00
80	Butylbenzylphthalate	40.000	37.660	5.9	100	0.00
81	Benzo(a)anthracene	40.000	35.587	11.0	95	0.00
82	3,3'-Dichlorobenzidine	40.000	38.774	3.1	100	0.00
83	Chrysene	40.000	37.508	6.2	103	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	36.620	8.5	98	0.00
85 c	Di-n-octyl phthalate	40.000	37.807	5.5	100	-0.02
86 I	Perylene-d12	20.000	20.000	0.0	100	-0.02
87	Indeno(1,2,3-cd)pyrene	40.000	37.626	5.9	97	-0.03
88	Benzo(b)fluoranthene	40.000	38.861	2.8	109	-0.02
89	Benzo(k)fluoranthene	40.000	35.766	10.6	92	-0.02
90 C	Benzo(a)pyrene	40.000	38.209	4.5	100	-0.02
91	Dibenzo(a,h)anthracene	40.000	38.007	5.0	97	-0.04
92	Benzo(g,h,i)perylene	40.000	37.101	7.2	96	-0.04

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141298.D
Acq On : 29 Jan 2025 17:31
Operator : RC/JU
Sample : SSTDICV040
Misc :
ALS Vial : 10 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
ICVBF012925

Quant Time: Jan 30 03:16:08 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG No.: Q1207

Instrument ID: BNA_F Calibration Date/Time: 01/31/2025 17:19

Lab File ID: BF141336.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 17:05

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.380	1.326		-3.9	
2-Fluorophenol	1.303	1.218		-6.5	
Phenol-d6	1.657	1.534		-7.4	
1,4-Dichlorobenzene	1.547	1.437		-7.2	20.0
2-Methylphenol	1.135	1.062		-6.4	
3+4-Methylphenols	1.393	1.318		-5.4	
Nitrobenzene-d5	0.379	0.348		-8.2	
Hexachloroethane	0.571	0.536		-6.1	
Nitrobenzene	0.393	0.365		-7.1	
Hexachlorobutadiene	0.194	0.179		-7.7	20.0
2,4,6-Trichlorophenol	0.372	0.365		-1.9	20.0
2-Fluorobiphenyl	1.299	1.148		-11.6	
2,4,5-Trichlorophenol	0.405	0.381		-5.9	
2,4-Dinitrotoluene	0.406	0.427		5.2	
2,4,6-Tribromophenol	0.183	0.177		-3.3	
Hexachlorobenzene	0.238	0.232		-2.5	
Pentachlorophenol	0.139	0.186		33.8	20.0
Terphenyl-d14	1.297	1.177		-9.3	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	140033	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	558386	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	299701	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	493954	20.000	ng	0.00
76) Chrysene-d12	13.968	240	281629	20.000	ng	0.00
86) Perylene-d12	15.433	264	286623	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.398	112	682309	74.803	ng	-0.01
7) Phenol-d6	6.428	99	859443	74.066	ng	-0.01
23) Nitrobenzene-d5	7.363	82	776494	73.308	ng	0.00
42) 2,4,6-Tribromophenol	10.628	330	211897	77.122	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	1376427	70.690	ng	0.00
79) Terphenyl-d14	12.910	244	1325492	72.583	ng	0.00
Target Compounds						
					Qvalue	
2) 1,4-Dioxane	2.487	88	152703	38.066	ng	99
3) Pyridine	3.210	79	371435	38.429	ng	100
4) n-Nitrosodimethylamine	3.163	42	210093	38.050	ng	100
6) Aniline	6.457	93	376476	38.328	ng	93
8) 2-Chlorophenol	6.581	128	365957	37.432	ng	99
9) Benzaldehyde	6.345	77	272105	40.484	ng	99
10) Phenol	6.440	94	462764	37.622	ng	99
11) bis(2-Chloroethyl)ether	6.534	93	354960	37.636	ng	99
12) 1,3-Dichlorobenzene	6.740	146	403414	37.423	ng	99
13) 1,4-Dichlorobenzene	6.816	146	402314	37.151	ng	100
14) 1,2-Dichlorobenzene	6.969	146	377953	37.272	ng	99
15) Benzyl Alcohol	6.939	79	308313	38.880	ng	100
16) 2,2'-oxybis(1-Chloropr...	7.075	45	615868	37.552	ng	100
17) 2-Methylphenol	7.051	107	297446	37.434	ng	98
18) Hexachloroethane	7.310	117	150153	37.585	ng	99
19) n-Nitroso-di-n-propyla...	7.216	70	264932	38.424	ng	96
20) 3+4-Methylphenols	7.204	107	369223	37.845	ng	99
22) Acetophenone	7.210	105	473548	35.678	ng	100
24) Nitrobenzene	7.381	77	407415	37.116	ng	100
25) Isophorone	7.622	82	694555	37.934	ng	99
26) 2-Nitrophenol	7.698	139	195489	37.762	ng	99
27) 2,4-Dimethylphenol	7.734	122	250385	37.999	ng	98
28) bis(2-Chloroethoxy)met...	7.834	93	431598	36.955	ng	100
29) 2,4-Dichlorophenol	7.939	162	303375	37.608	ng	100
30) 1,2,4-Trichlorobenzene	8.022	180	333619	36.214	ng	100
31) Naphthalene	8.104	128	1078465	36.561	ng	100
32) Benzoic acid	7.845	122	252577	41.698	ng	99
33) 4-Chloroaniline	8.151	127	367291	36.719	ng	99
34) Hexachlorobutadiene	8.222	225	200005	37.021	ng	100
35) Caprolactam	8.522	113	101967	38.705	ng	99
36) 4-Chloro-3-methylphenol	8.633	107	380639	43.991	ng	98
37) 2-Methylnaphthalene	8.792	142	690288	36.818	ng	98
38) 1-Methylnaphthalene	8.892	142	675547	36.681	ng	99
40) 1,2,4,5-Tetrachloroben...	8.957	216	308854	36.224	ng	99
41) Hexachlorocyclopentadiene	8.945	237	95556	37.949	ng	99
43) 2,4,6-Trichlorophenol	9.069	196	218757	39.199	ng	99

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 Acq On : 31 Jan 2025 17:19
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
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 Response via : Initial Calibration

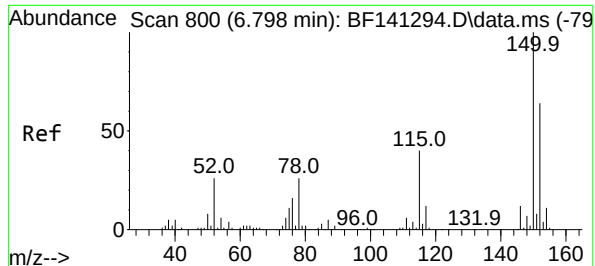
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.110	196	228427	37.608	ng	100
46) 1,1'-Biphenyl	9.257	154	855111	36.585	ng	100
47) 2-Chloronaphthalene	9.281	162	660426	36.251	ng	100
48) 2-Nitroaniline	9.381	65	219643	38.330	ng	100
49) Acenaphthylene	9.698	152	945423	37.073	ng	100
50) Dimethylphthalate	9.563	163	773243	38.200	ng	100
51) 2,6-Dinitrotoluene	9.622	165	179857	38.268	ng	99
52) Acenaphthene	9.869	154	675302	37.066	ng	99
53) 3-Nitroaniline	9.792	138	174746	37.936	ng	98
54) 2,4-Dinitrophenol	9.898	184	90166	41.270	ng	99
55) Dibenzofuran	10.045	168	887550	36.395	ng	100
56) 4-Nitrophenol	9.951	139	179822	53.378	ng	99
57) 2,4-Dinitrotoluene	10.028	165	255655	42.014	ng	99
58) Fluorene	10.386	166	690153	36.485	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.163	232	185895	38.903	ng	100
60) Diethylphthalate	10.263	149	748552	38.140	ng	100
61) 4-Chlorophenyl-phenyle...	10.380	204	336871	36.458	ng	99
62) 4-Nitroaniline	10.404	138	172379	38.063	ng	98
63) Azobenzene	10.539	77	738145	37.573	ng	100
65) 4,6-Dinitro-2-methylph...	10.433	198	129346	44.270	ng	99
66) n-Nitrosodiphenylamine	10.498	169	619094	38.751	ng	99
67) 4-Bromophenyl-phenylether	10.869	248	216973	39.236	ng	97
68) Hexachlorobenzene	10.933	284	228716	38.991	ng	98
69) Atrazine	11.027	200	181536	33.985	ng	98
70) Pentachlorophenol	11.127	266	184030	53.575	ng	98
71) Phenanthrene	11.351	178	1004184	37.819	ng	100
72) Anthracene	11.398	178	987277	37.948	ng	99
73) Carbazole	11.557	167	881695	38.220	ng	100
74) Di-n-butylphthalate	11.892	149	1102750	39.444	ng	100
75) Fluoranthene	12.539	202	998810	38.098	ng	100
77) Benzidine	12.663	184	349084	38.664	ng	100
78) Pyrene	12.769	202	1097741	40.606	ng	100
80) Butylbenzylphthalate	13.392	149	369304	39.103	ng	99
81) Benzo(a)anthracene	13.957	228	665086	34.223	ng	100
82) 3,3'-Dichlorobenzidine	13.921	252	223750	36.200	ng	100
83) Chrysene	13.992	228	664102	37.287	ng	100
84) Bis(2-ethylhexyl)phtha...	13.951	149	458911	38.304	ng	99
85) Di-n-octyl phthalate	14.580	149	723593	38.886	ng	100
87) Indeno(1,2,3-cd)pyrene	16.886	276	709942	38.376	ng	100
88) Benzo(b)fluoranthene	15.015	252	669775	37.149	ng	100
89) Benzo(k)fluoranthene	15.039	252	597549	37.413	ng	99
90) Benzo(a)pyrene	15.374	252	568194	37.294	ng	100
91) Dibenzo(a,h)anthracene	16.904	278	572387	38.458	ng	100
92) Benzo(g,h,i)perylene	17.321	276	601743	38.883	ng	100

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

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

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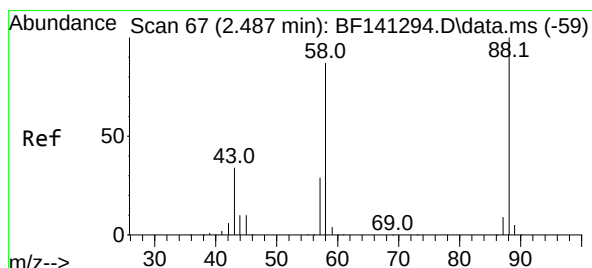
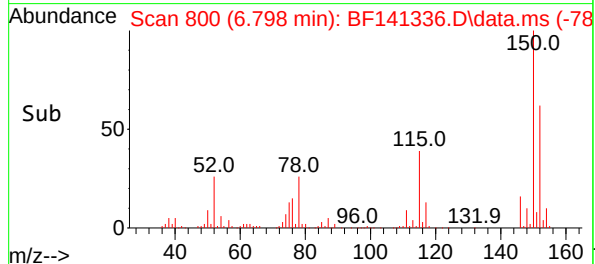
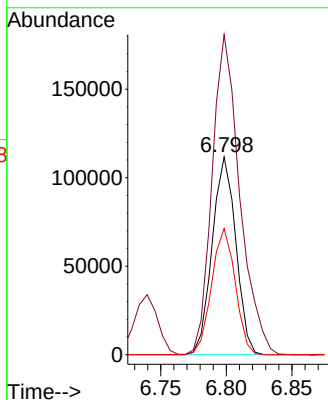
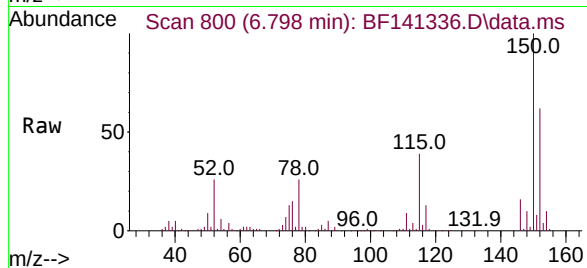




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

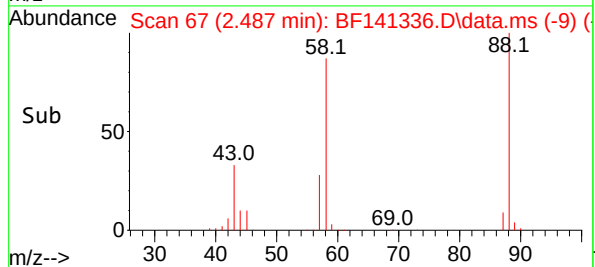
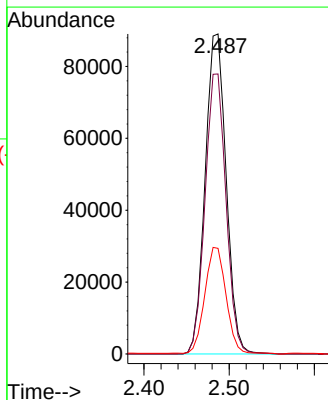
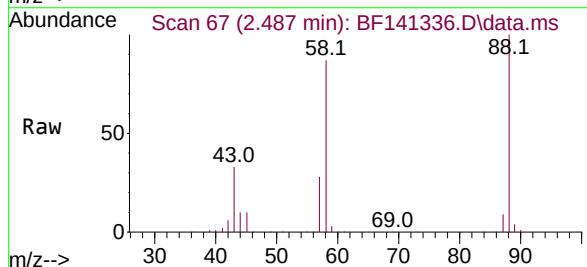
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ClientSampleId :
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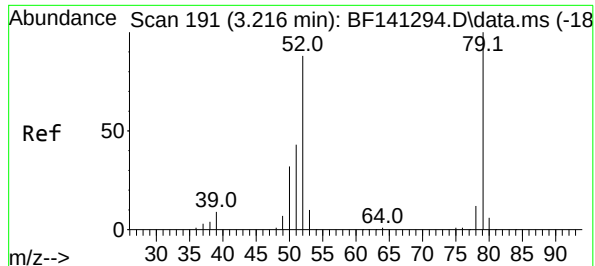
Tgt Ion:152 Resp: 140033
Ion Ratio Lower Upper
152 100
150 161.9 125.9 188.9
115 63.8 49.7 74.5



#2
1,4-Dioxane
Concen: 38.066 ng
RT: 2.487 min Scan# 67
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion: 88 Resp: 152703
Ion Ratio Lower Upper
88 100
58 87.4 70.2 105.4
43 33.9 27.6 41.4

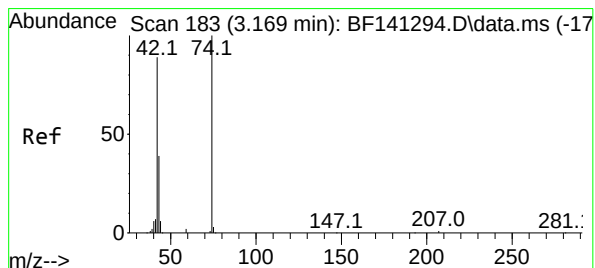
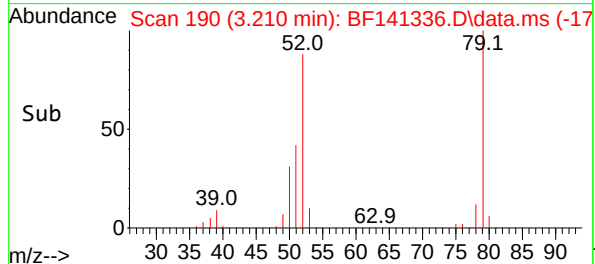
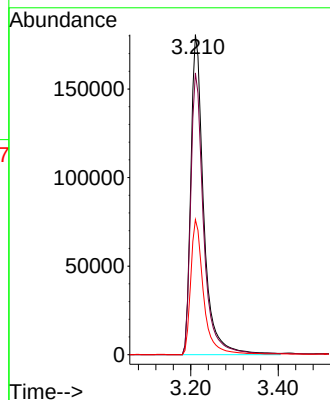
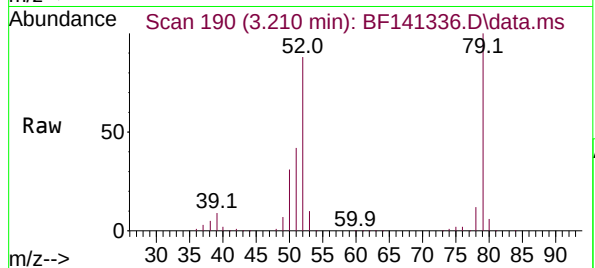




#3
Pyridine
Concen: 38.429 ng
RT: 3.210 min Scan# 191
Delta R.T. -0.018 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

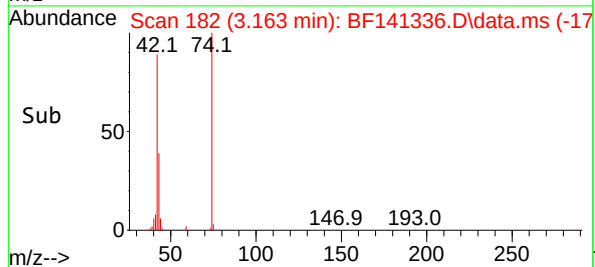
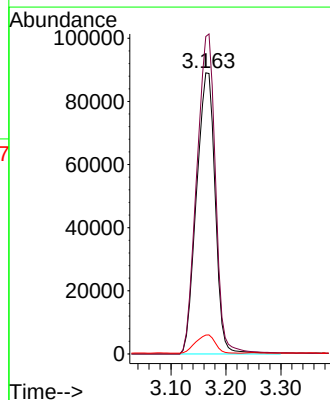
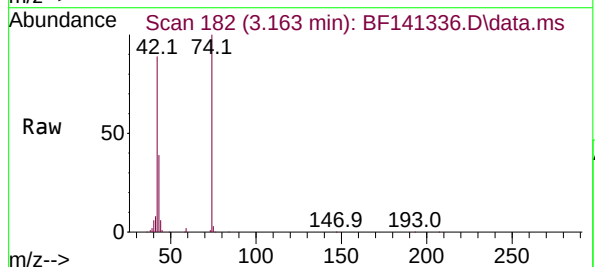
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ClientSampleId :
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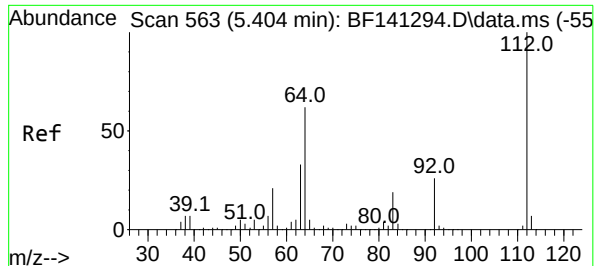
Tgt Ion: 79 Resp: 371435
Ion Ratio Lower Upper
79 100
52 88.0 70.3 105.5
51 42.2 34.3 51.5



#4
n-Nitrosodimethylamine
Concen: 38.050 ng
RT: 3.163 min Scan# 182
Delta R.T. -0.035 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion: 42 Resp: 210093
Ion Ratio Lower Upper
42 100
74 112.9 90.3 135.5
44 6.7 5.7 8.5

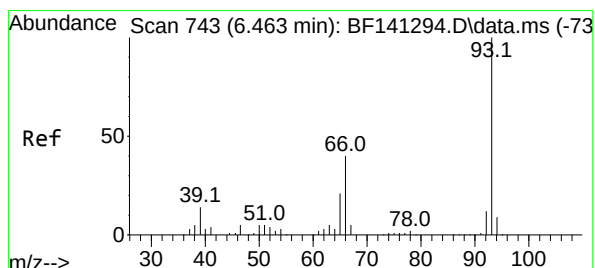
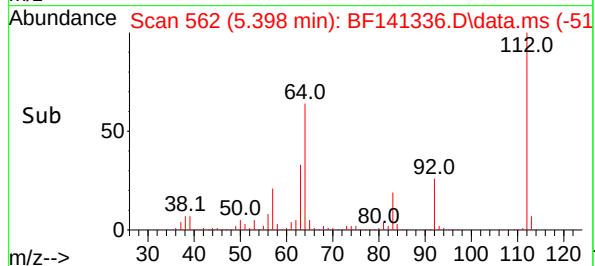
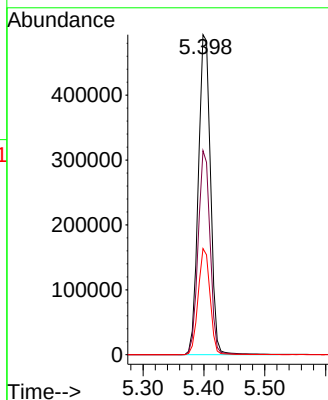
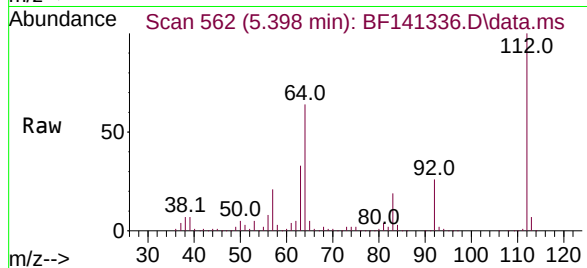




#5
2-Fluorophenol
Concen: 74.803 ng
RT: 5.398 min Scan# 50
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

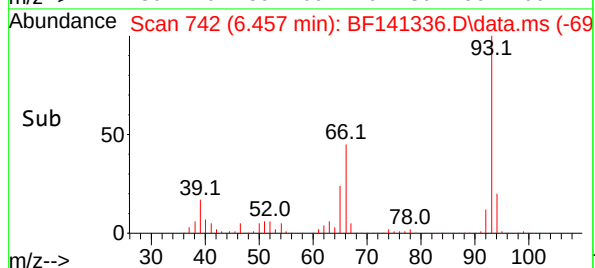
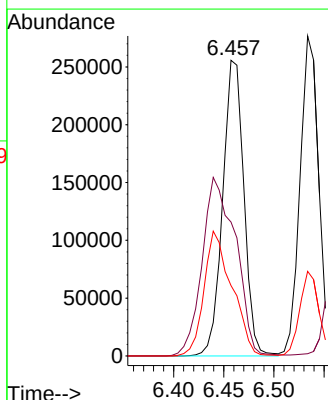
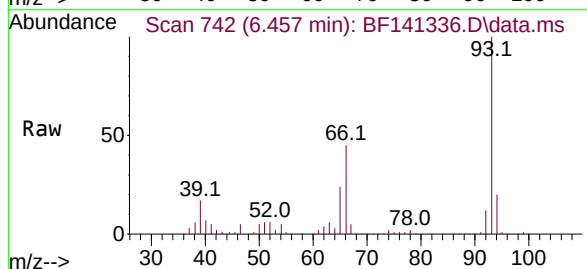
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ClientSampleId :
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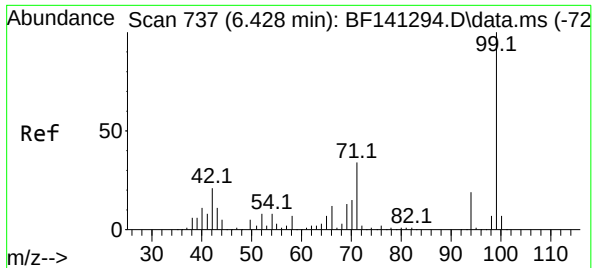
Tgt Ion:112 Resp: 682309
Ion Ratio Lower Upper
112 100
64 63.7 49.8 74.8
63 33.2 26.1 39.1



#6
Aniline
Concen: 38.328 ng
RT: 6.457 min Scan# 742
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion: 93 Resp: 376476
Ion Ratio Lower Upper
93 100
66 45.3 32.5 48.7
65 23.8 17.0 25.6

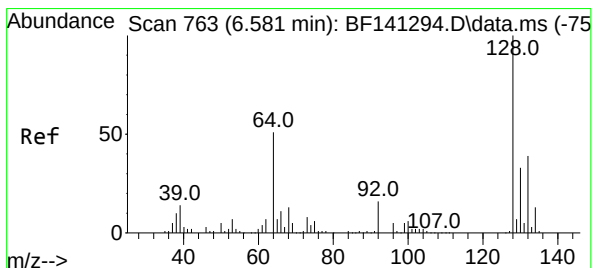
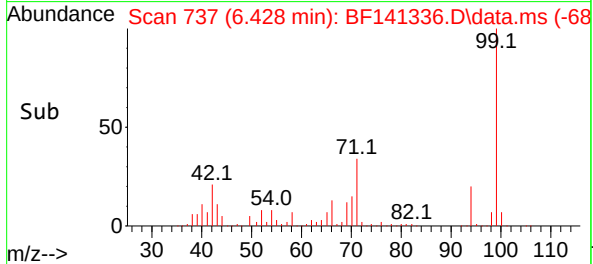
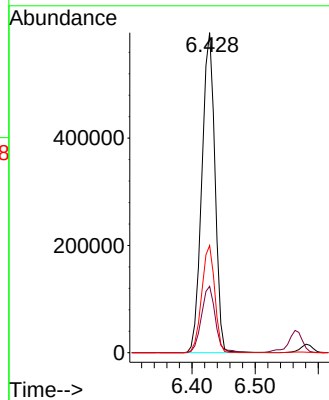
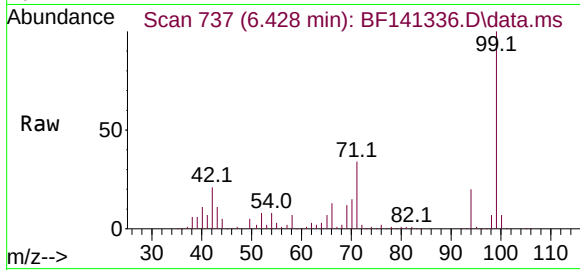




#7
Phenol-d6
Concen: 74.066 ng
RT: 6.428 min Scan# 711
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

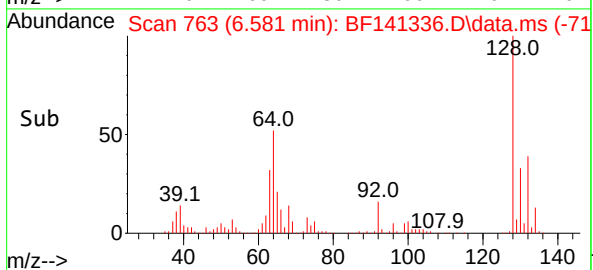
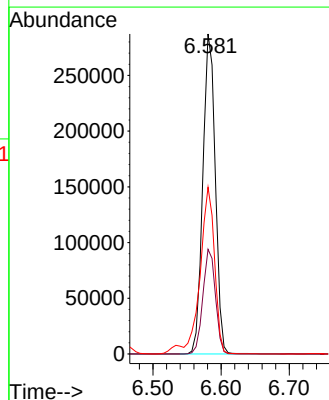
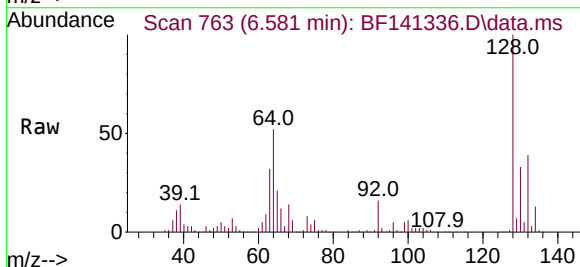
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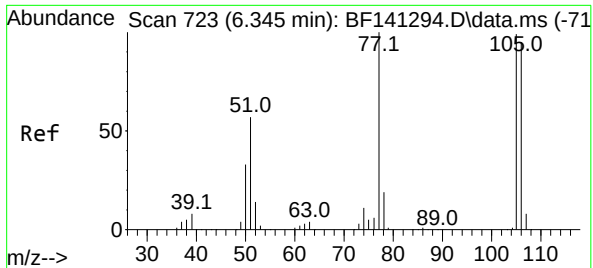
Tgt Ion	Ratio	Lower	Upper
99	100		
42	20.7	17.1	25.7
71	33.5	26.9	40.3



#8
2-Chlorophenol
Concen: 37.432 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion	Ratio	Lower	Upper
128	100		
130	32.7	12.5	52.5
64	52.1	32.9	72.9

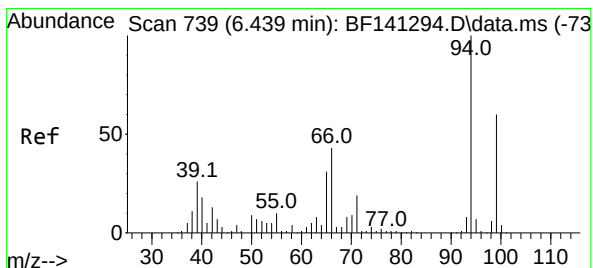
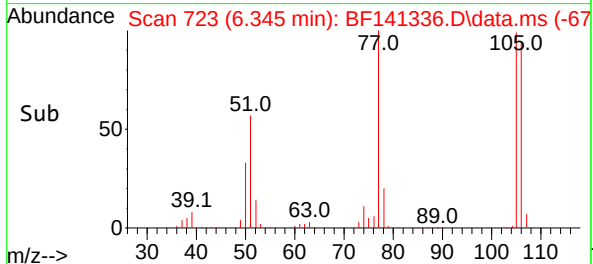
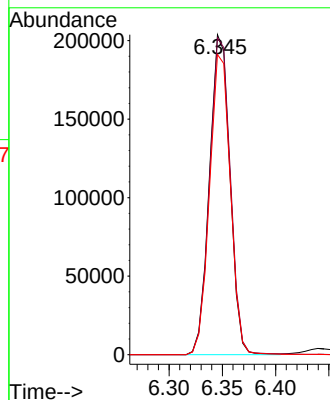
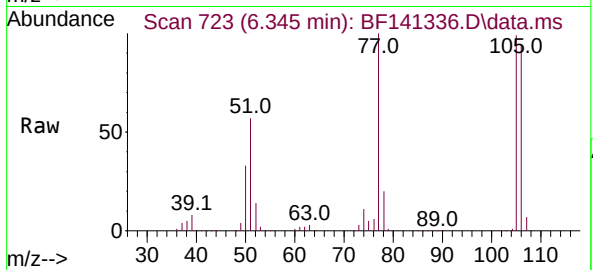




#9
Benzaldehyde
Concen: 40.484 ng
RT: 6.345 min Scan# 723
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

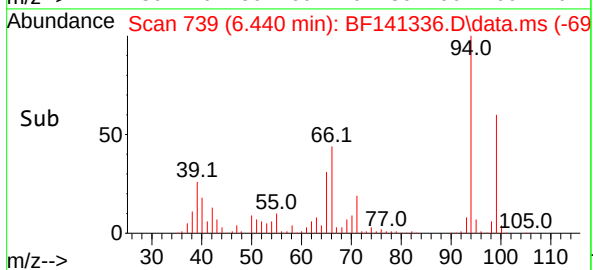
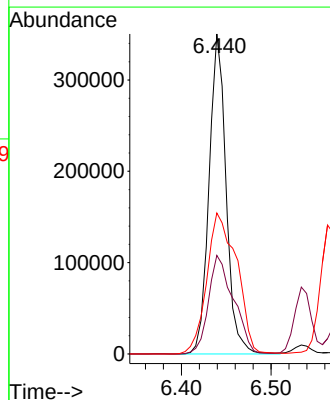
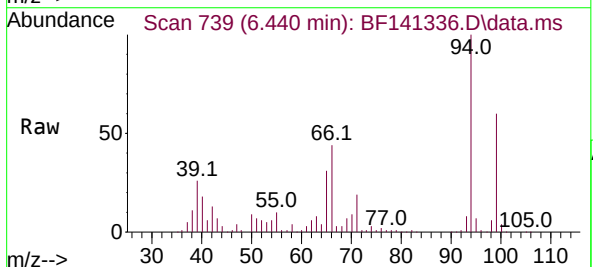
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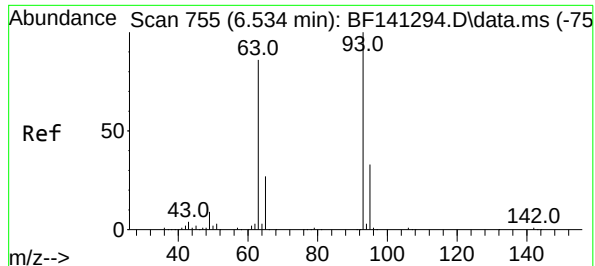
Tgt Ion: 77 Resp: 272105
Ion Ratio Lower Upper
77 100
105 99.1 79.4 119.4
106 93.8 74.6 114.6



#10
Phenol
Concen: 37.622 ng
RT: 6.440 min Scan# 739
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion: 94 Resp: 462764
Ion Ratio Lower Upper
94 100
65 30.8 10.8 50.8
66 44.1 23.3 63.3





#11

bis(2-Chloroethyl)ether

Concen: 37.636 ng

RT: 6.534 min Scan# 755

Delta R.T. -0.012 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

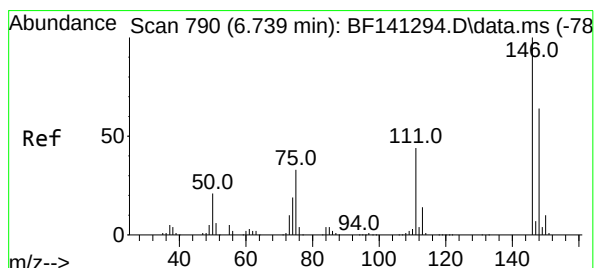
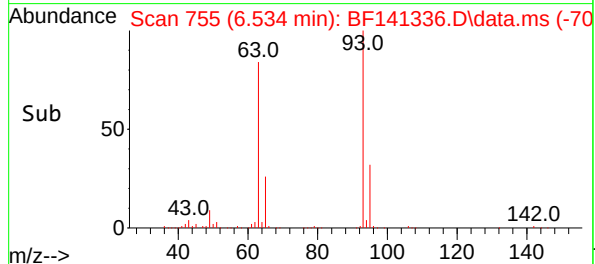
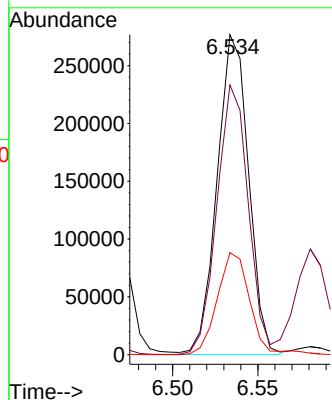
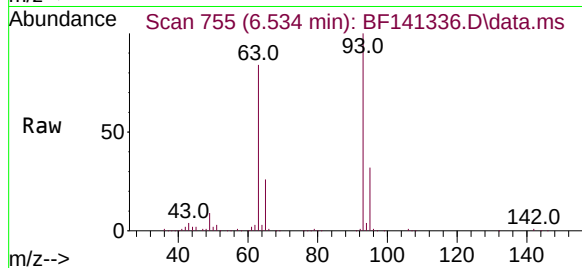
Tgt Ion: 93 Resp: 354960

Ion Ratio Lower Upper

93 100

63 84.3 65.0 105.0

95 31.9 12.4 52.4



#12

1,3-Dichlorobenzene

Concen: 37.423 ng

RT: 6.740 min Scan# 790

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

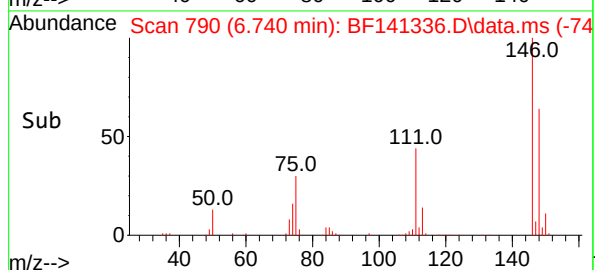
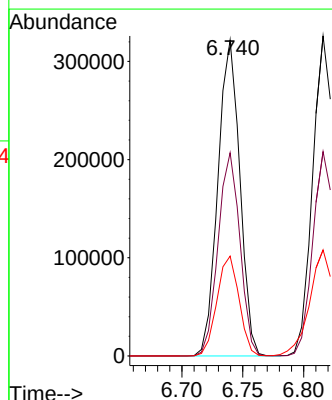
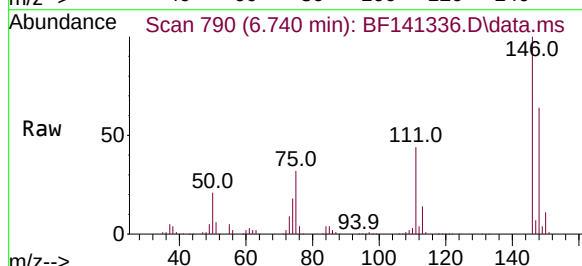
Tgt Ion: 146 Resp: 403414

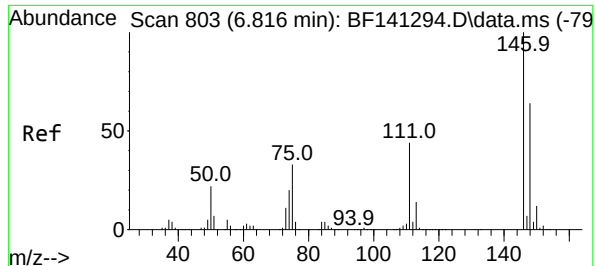
Ion Ratio Lower Upper

146 100

148 64.3 51.2 76.8

75 31.6 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 37.151 ng

RT: 6.816 min Scan# 803

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

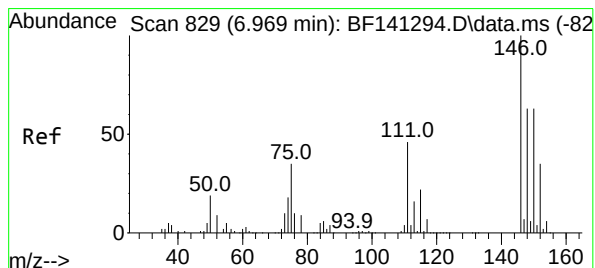
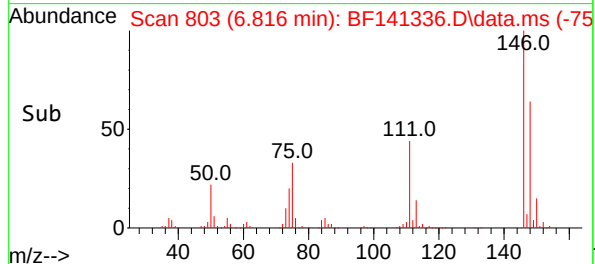
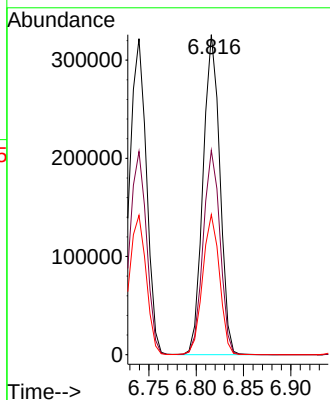
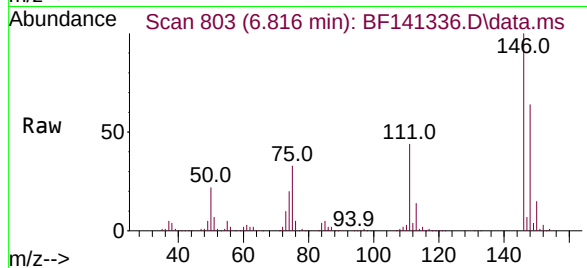
Tgt Ion:146 Resp: 402314

Ion Ratio Lower Upper

146 100

148 63.8 51.2 76.8

111 43.7 35.0 52.4



#14

1,2-Dichlorobenzene

Concen: 37.272 ng

RT: 6.969 min Scan# 829

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

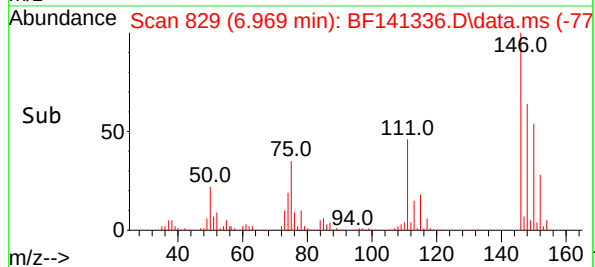
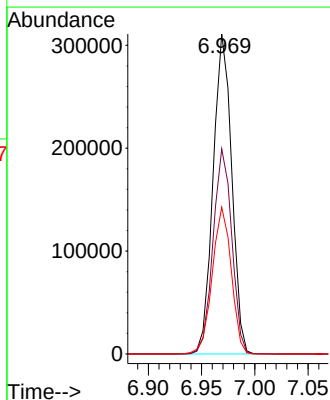
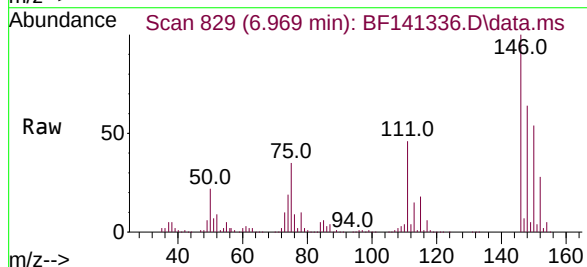
Tgt Ion:146 Resp: 377953

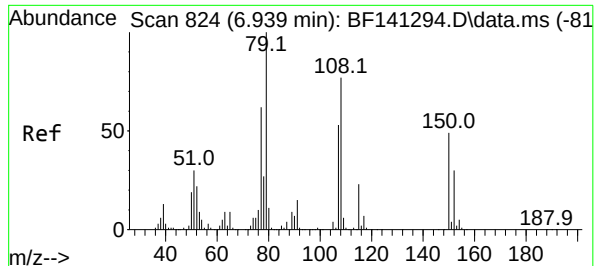
Ion Ratio Lower Upper

146 100

148 64.1 50.5 75.7

111 45.9 36.6 55.0





#15

Benzyl Alcohol

Concen: 38.880 ng

RT: 6.939 min Scan# 81

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

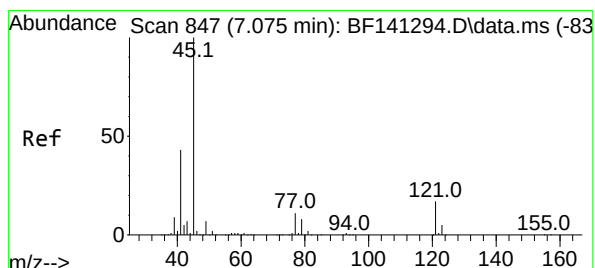
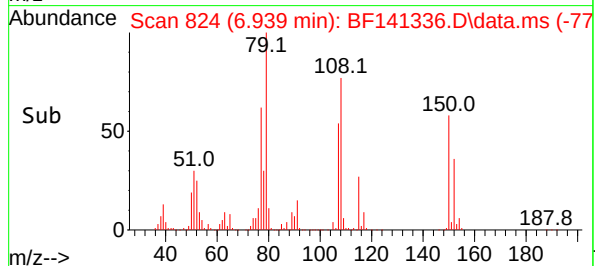
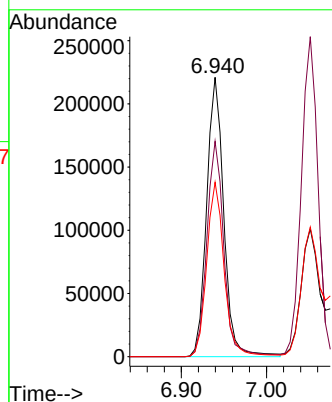
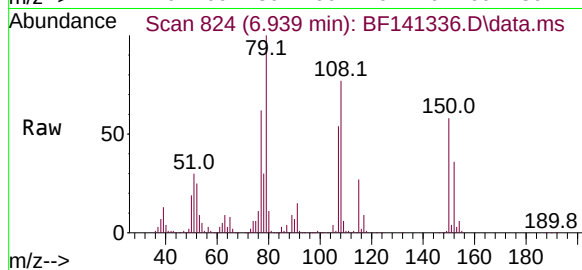
Tgt Ion: 79 Resp: 308313

Ion Ratio Lower Upper

79 100

108 77.1 61.4 92.0

77 62.4 49.9 74.9



#16

2,2'-oxybis(1-chloropropane)

Concen: 37.552 ng

RT: 7.075 min Scan# 847

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

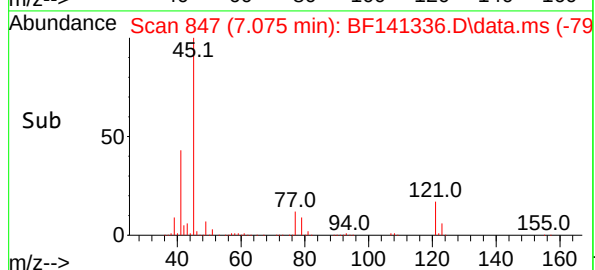
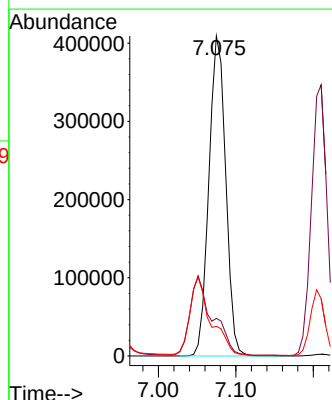
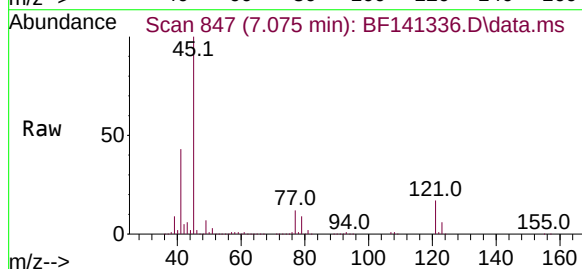
Tgt Ion: 45 Resp: 615868

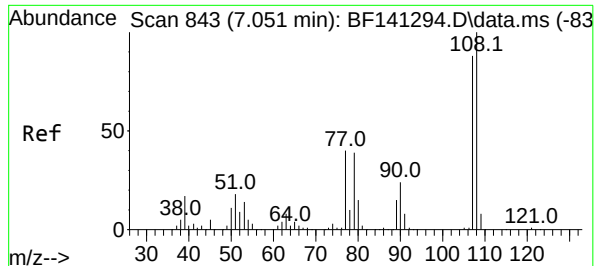
Ion Ratio Lower Upper

45 100

77 11.8 0.0 31.8

79 9.2 0.0 29.1

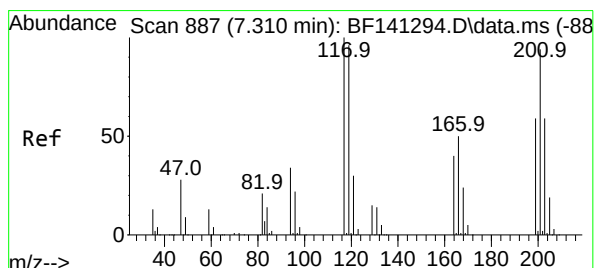
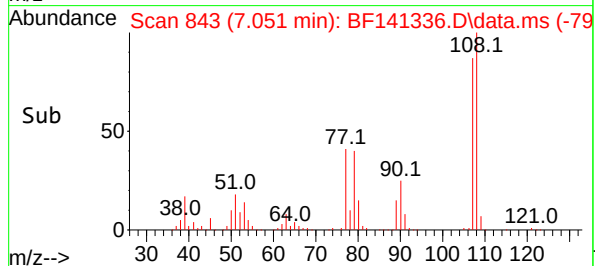
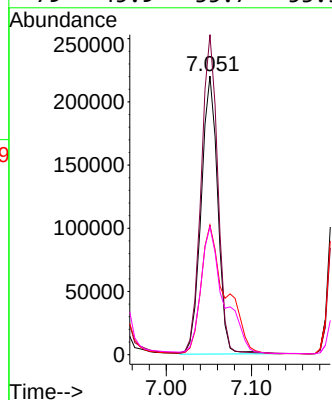
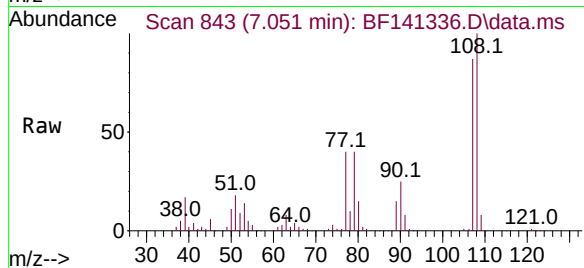




#17
2-Methylphenol
Concen: 37.434 ng
RT: 7.051 min Scan# 843
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

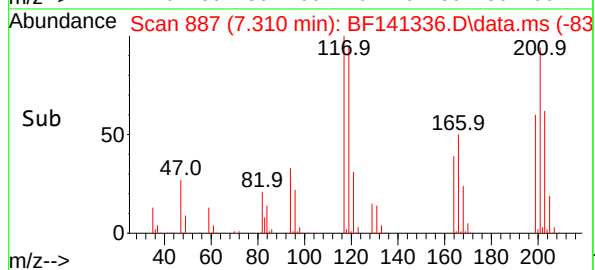
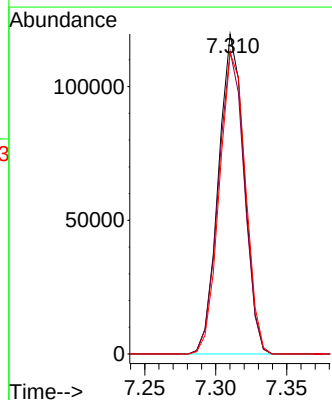
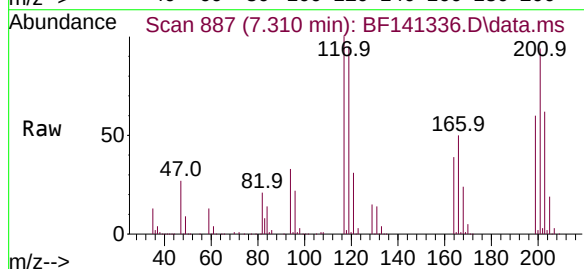
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

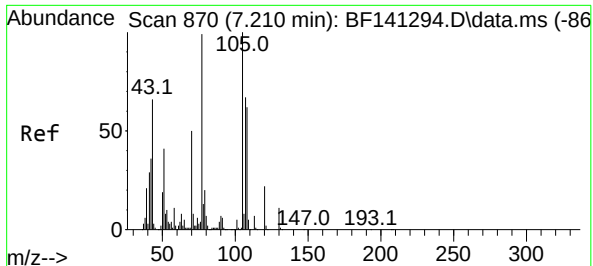
Tgt Ion:	107	Resp:	297446
Ion	Ratio	Lower	Upper
107	100		
108	114.9	90.8	136.2
77	46.5	36.2	54.4
79	45.9	35.7	53.5



#18
Hexachloroethane
Concen: 37.585 ng
RT: 7.310 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:	117	Resp:	150153
Ion	Ratio	Lower	Upper
117	100		
119	94.6	76.6	114.8
201	94.1	74.8	112.2





#19

n-Nitroso-di-n-propylamine

Concen: 38.424 ng

RT: 7.216 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion: 70 Resp: 264932

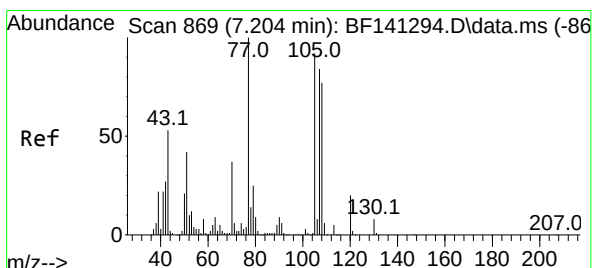
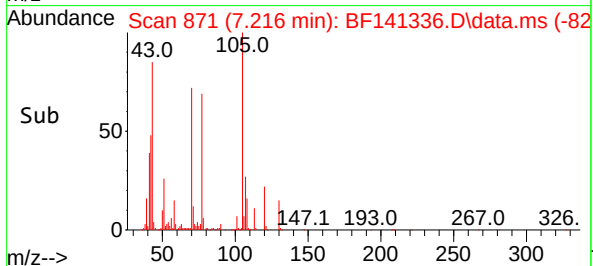
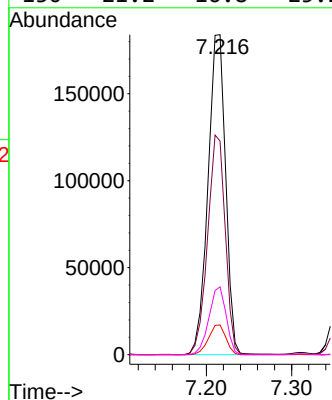
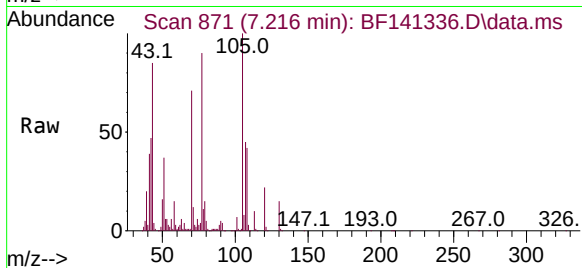
Ion Ratio Lower Upper

70 100

42 66.7 56.8 85.2

101 9.3 7.7 11.5

130 21.2 16.8 25.2



#20

3+4-Methylphenols

Concen: 37.845 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Tgt Ion: 107 Resp: 369223

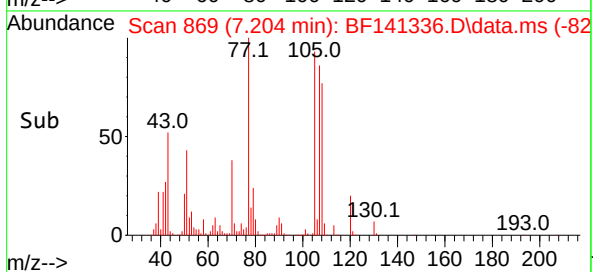
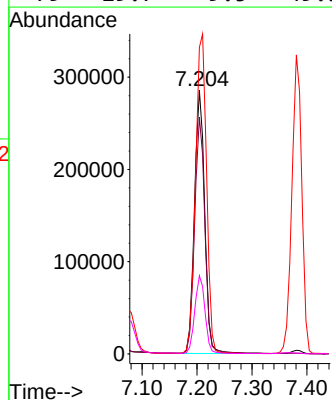
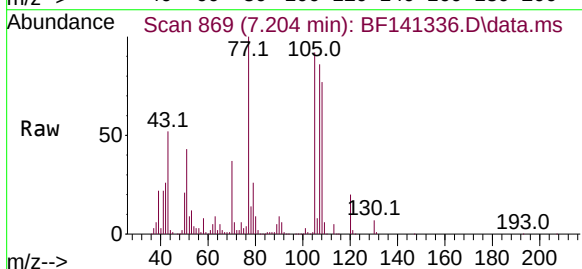
Ion Ratio Lower Upper

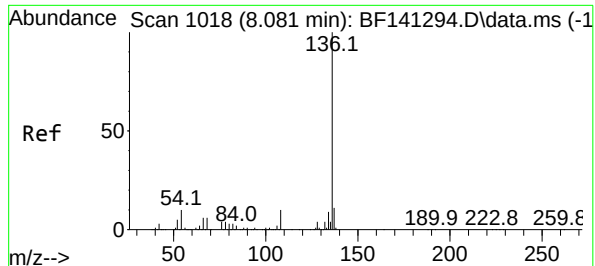
107 100

108 89.8 70.9 110.9

77 116.3 98.5 138.5

79 29.7 9.5 49.5





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.081 min Scan# 1018

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:136 Resp: 558386

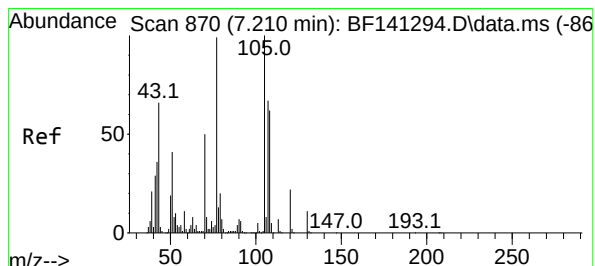
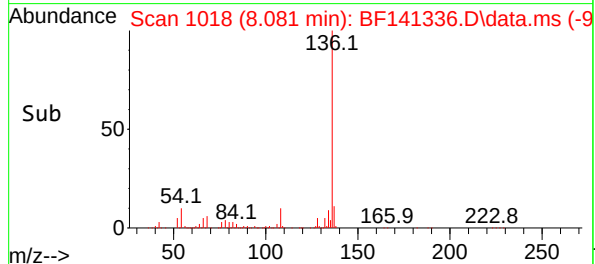
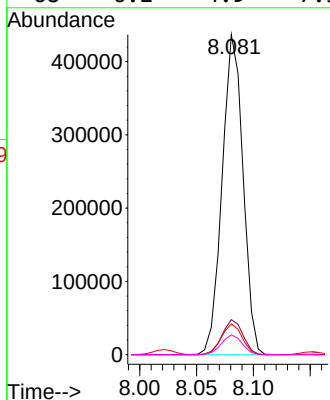
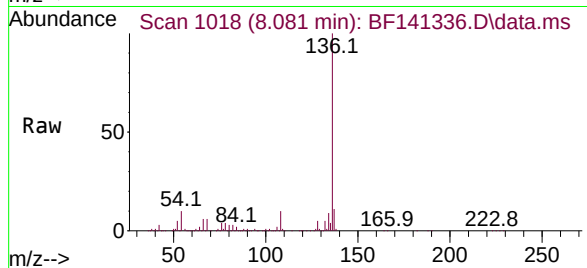
Ion Ratio Lower Upper

136 100

137 11.0 8.6 13.0

54 9.6 7.8 11.8

68 6.2 4.9 7.3



#22

Acetophenone

Concen: 35.678 ng

RT: 7.210 min Scan# 870

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Tgt Ion:105 Resp: 473548

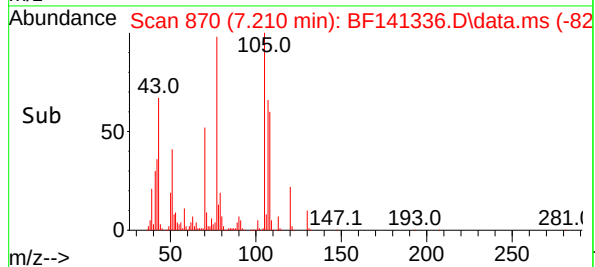
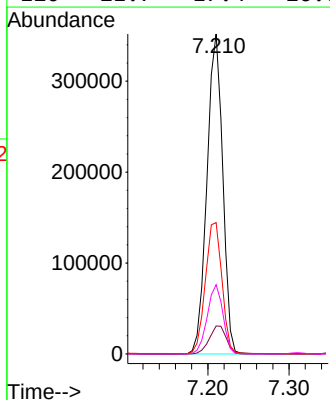
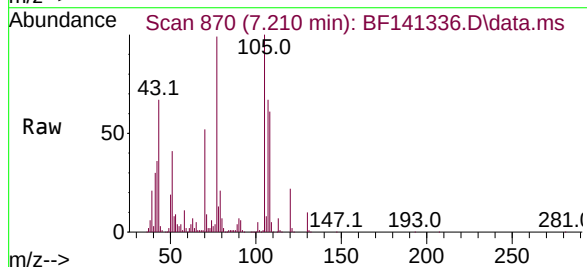
Ion Ratio Lower Upper

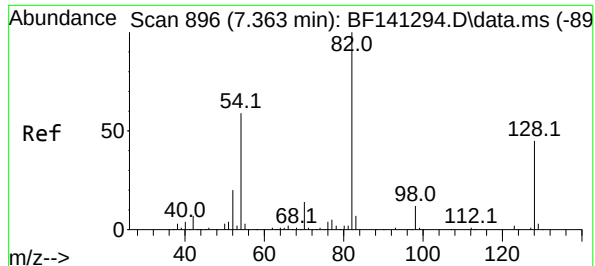
105 100

71 8.7 6.8 10.2

51 41.1 32.6 49.0

120 21.7 17.4 26.0





#23

Nitrobenzene-d5

Concen: 73.308 ng

RT: 7.363 min Scan# 896

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

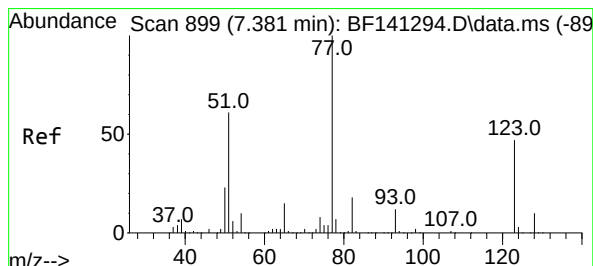
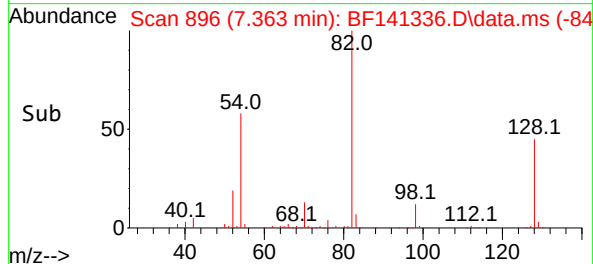
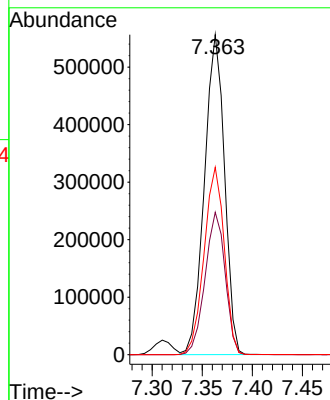
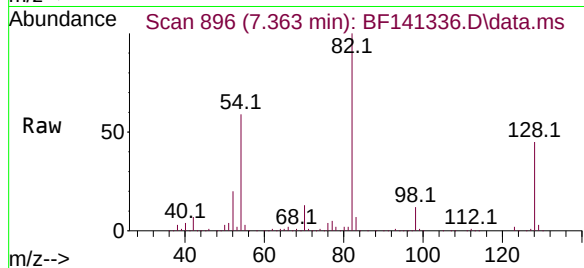
Tgt Ion: 82 Resp: 776494

Ion Ratio Lower Upper

82 100

128 44.5 35.7 53.5

54 58.5 47.1 70.7



#24

Nitrobenzene

Concen: 37.116 ng

RT: 7.381 min Scan# 899

Delta R.T. -0.012 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

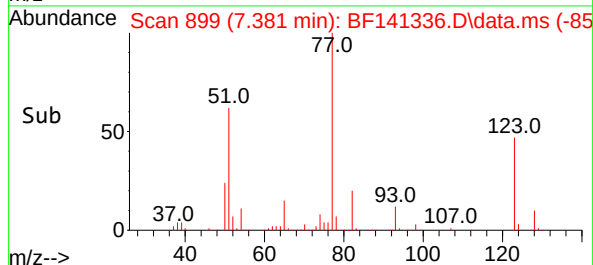
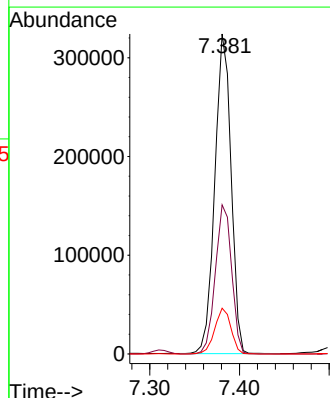
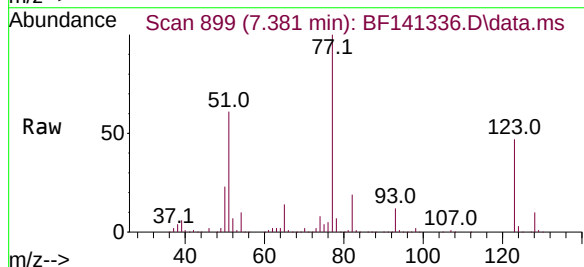
Tgt Ion: 77 Resp: 407415

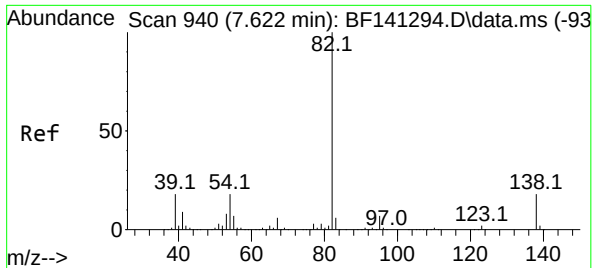
Ion Ratio Lower Upper

77 100

123 46.6 37.3 55.9

65 14.3 11.8 17.6

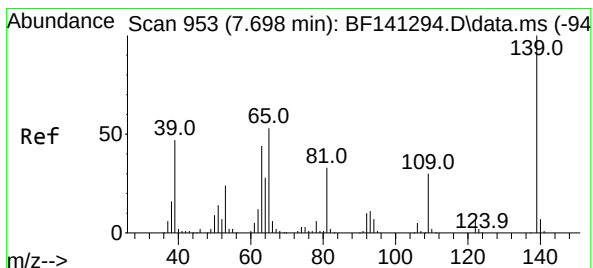
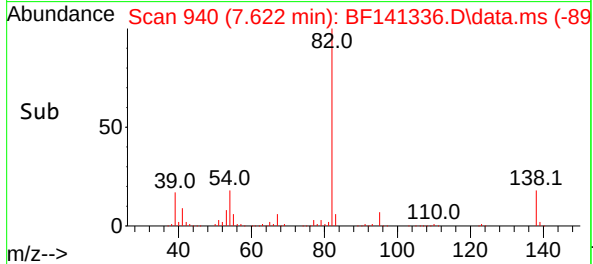
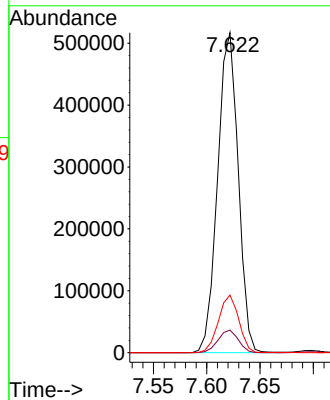
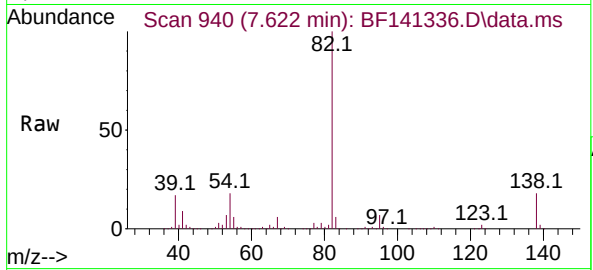




#25
Isophorone
Concen: 37.934 ng
RT: 7.622 min Scan# 940
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

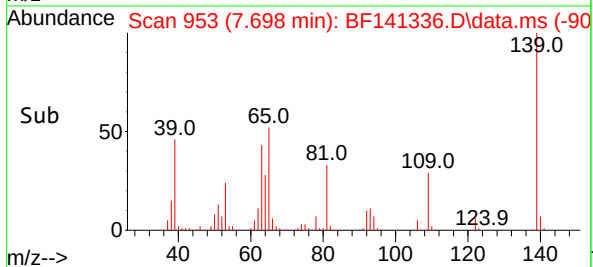
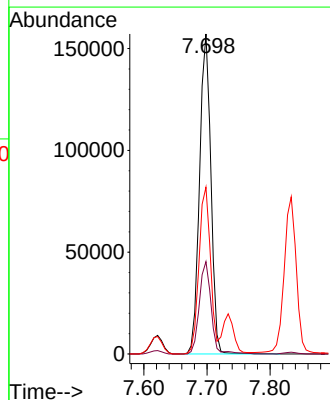
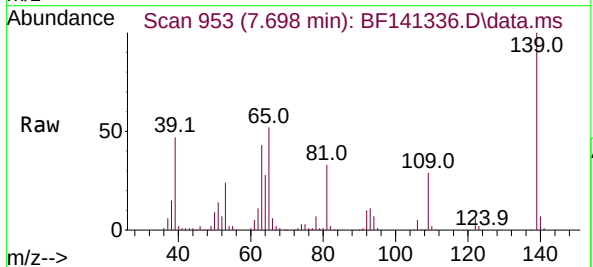
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

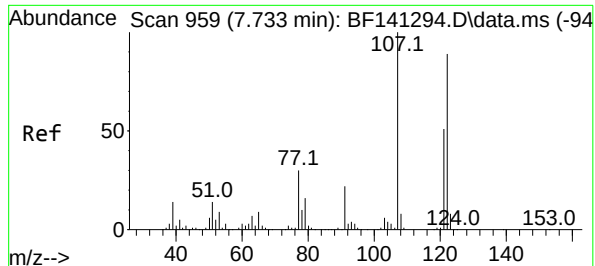
Tgt Ion: 82 Resp: 694555
Ion Ratio Lower Upper
82 100
95 7.0 5.8 8.6
138 18.0 14.7 22.1



#26
2-Nitrophenol
Concen: 37.762 ng
RT: 7.698 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion: 139 Resp: 195489
Ion Ratio Lower Upper
139 100
109 28.8 23.8 35.6
65 52.1 42.2 63.4





#27

2,4-Dimethylphenol

Concen: 37.999 ng

RT: 7.734 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

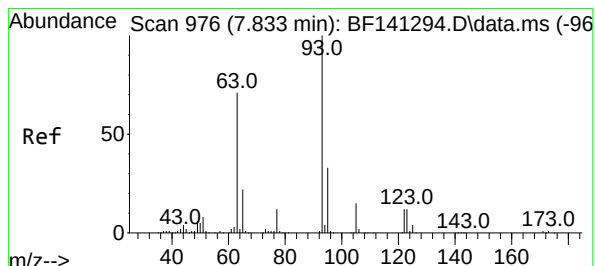
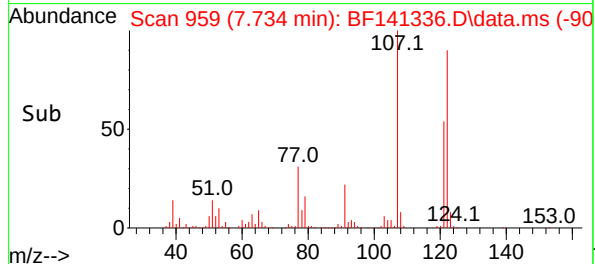
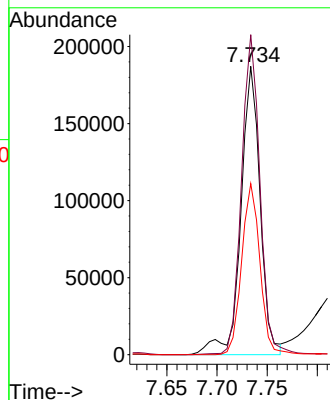
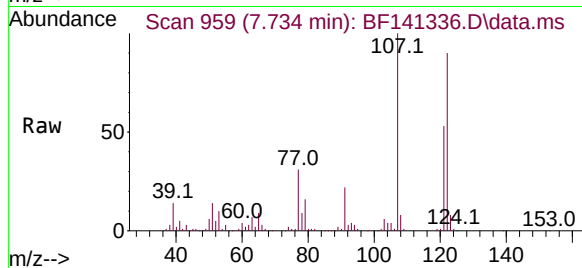
Tgt Ion:122 Resp: 250385

Ion Ratio Lower Upper

122 100

107 111.0 89.9 134.9

121 59.4 46.1 69.1



#28

bis(2-Chloroethoxy)methane

Concen: 36.955 ng

RT: 7.834 min Scan# 976

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

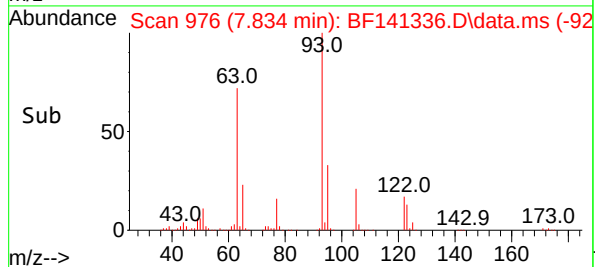
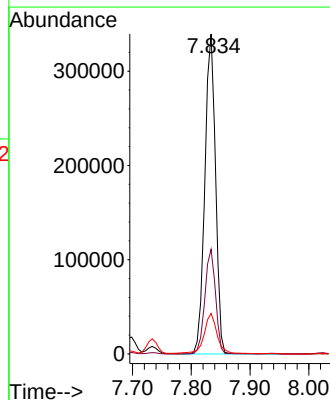
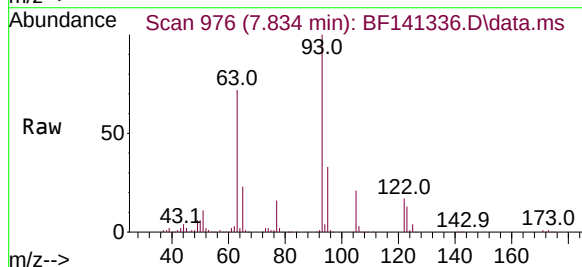
Tgt Ion: 93 Resp: 431598

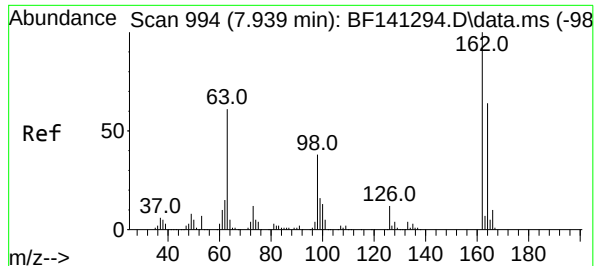
Ion Ratio Lower Upper

93 100

95 32.7 26.2 39.2

123 12.6 10.2 15.4





#29

2,4-Dichlorophenol

Concen: 37.608 ng

RT: 7.939 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

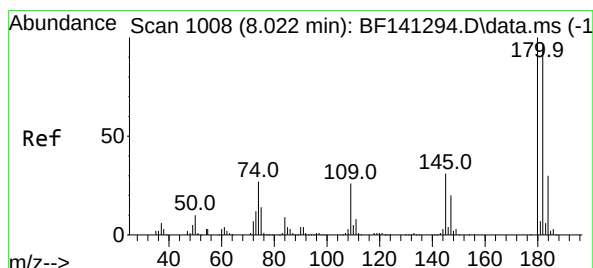
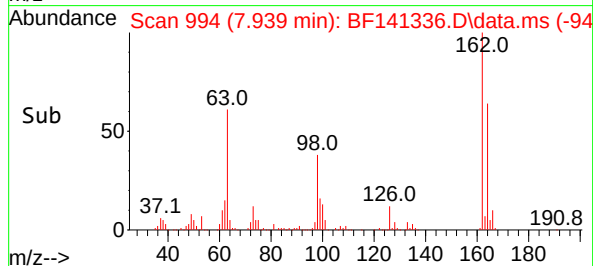
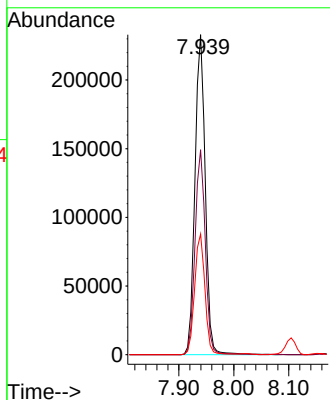
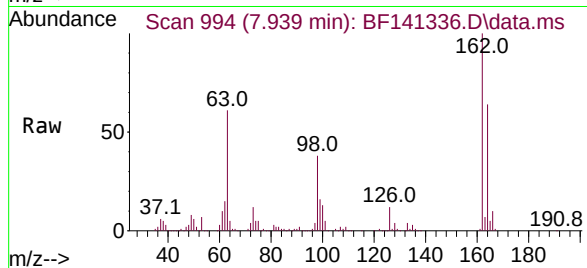
Tgt Ion:162 Resp: 303375

Ion Ratio Lower Upper

162 100

164 64.1 44.2 84.2

98 37.7 18.2 58.2



#30

1,2,4-Trichlorobenzene

Concen: 36.214 ng

RT: 8.022 min Scan# 1008

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

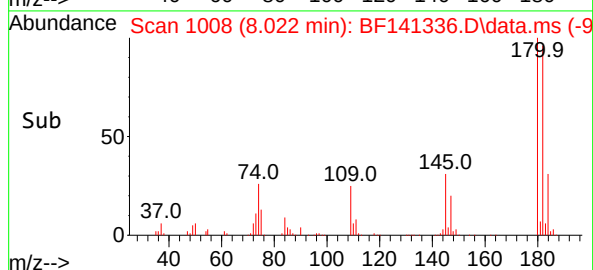
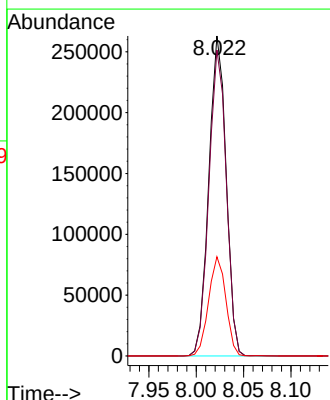
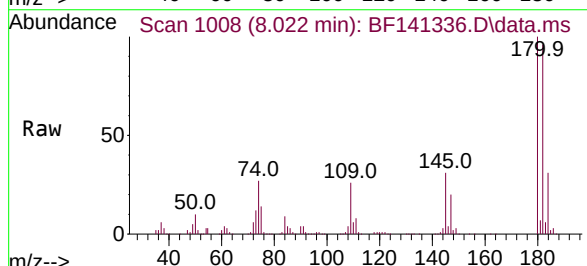
Tgt Ion:180 Resp: 333619

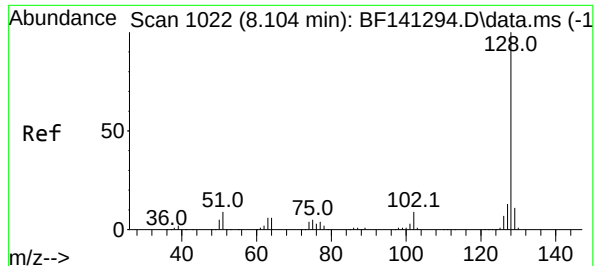
Ion Ratio Lower Upper

180 100

182 95.6 76.4 114.6

145 31.0 24.9 37.3





#31

Naphthalene

Concen: 36.561 ng

RT: 8.104 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

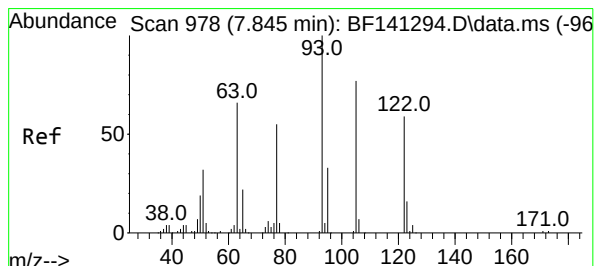
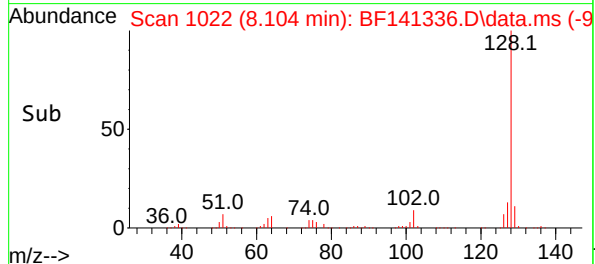
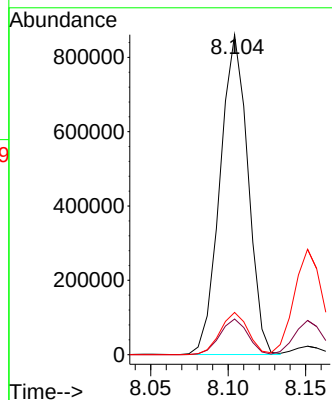
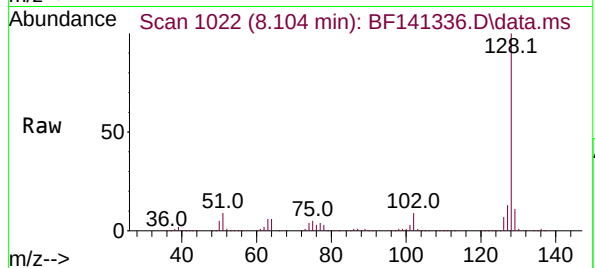
Tgt Ion:128 Resp: 1078465

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

127 13.2 10.6 15.8



#32

Benzoic acid

Concen: 41.698 ng

RT: 7.845 min Scan# 978

Delta R.T. -0.035 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

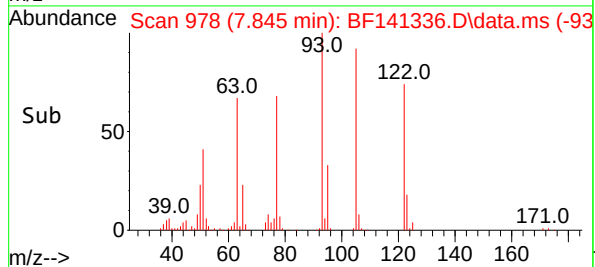
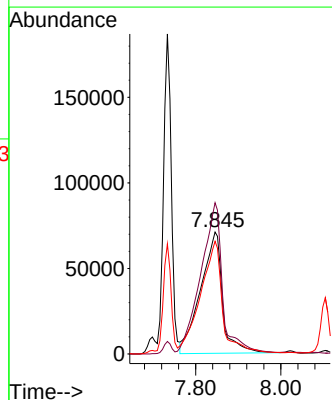
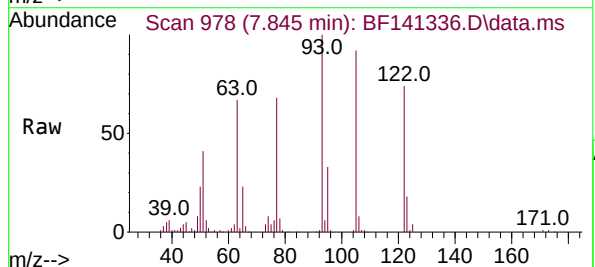
Tgt Ion:122 Resp: 252577

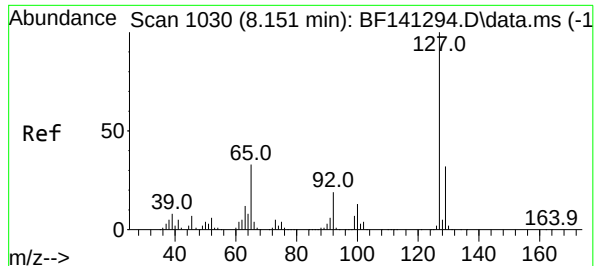
Ion Ratio Lower Upper

122 100

105 124.1 103.4 143.4

77 92.4 70.9 110.9





#33

4-Chloroaniline

Concen: 36.719 ng

RT: 8.151 min Scan# 1030

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:127 Resp: 367291

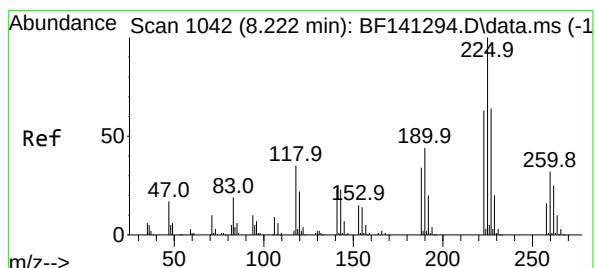
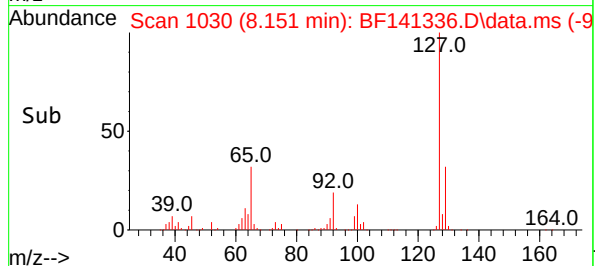
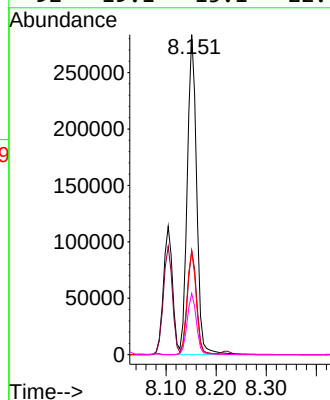
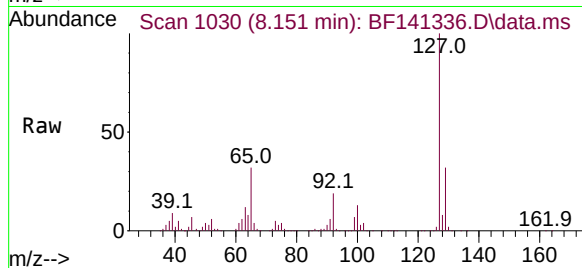
Ion Ratio Lower Upper

127 100

129 32.5 25.7 38.5

65 32.4 26.4 39.6

92 19.1 15.1 22.7



#34

Hexachlorobutadiene

Concen: 37.021 ng

RT: 8.222 min Scan# 1042

Delta R.T. -0.000 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

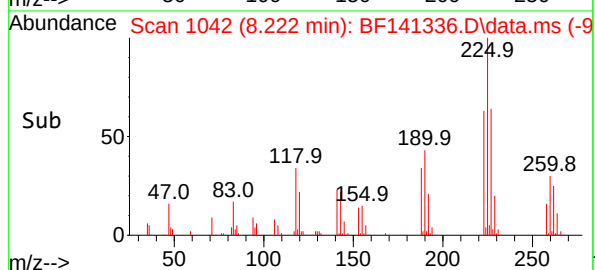
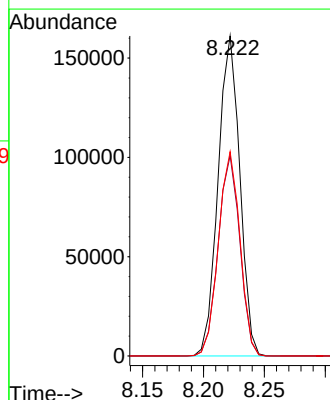
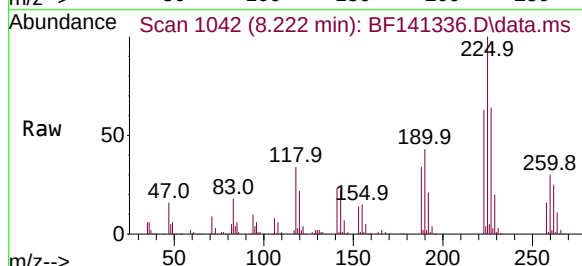
Tgt Ion:225 Resp: 200005

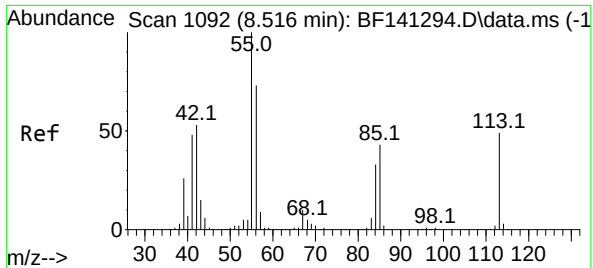
Ion Ratio Lower Upper

225 100

223 62.6 50.4 75.6

227 63.9 51.3 76.9

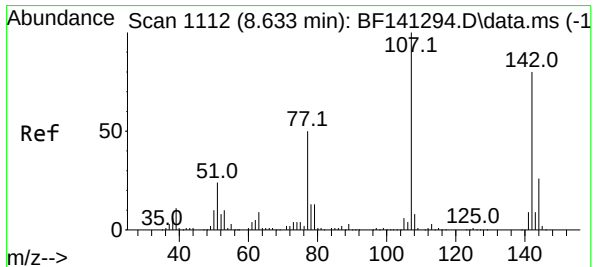
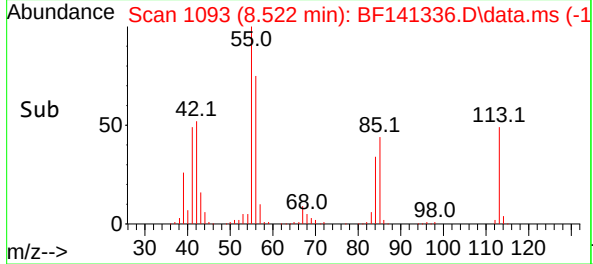
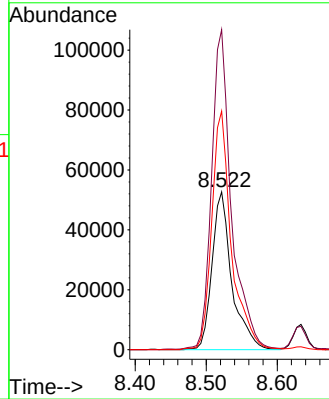
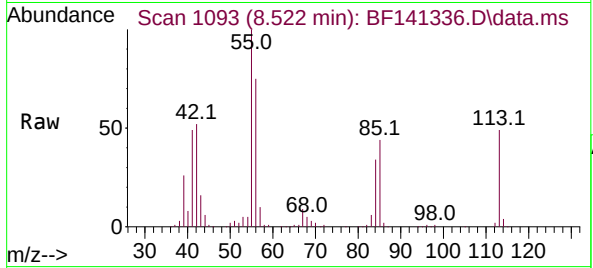




#35
Caprolactam
Concen: 38.705 ng
RT: 8.522 min Scan# 1093
Delta R.T. -0.024 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

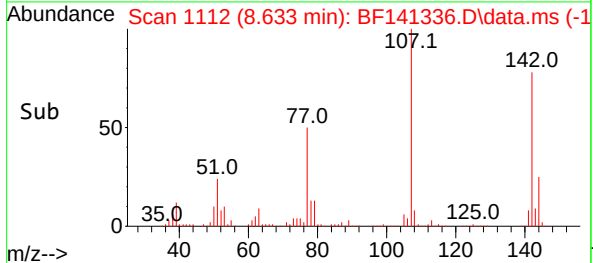
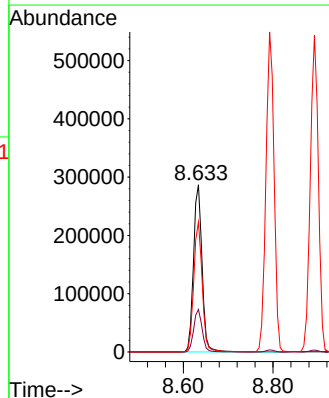
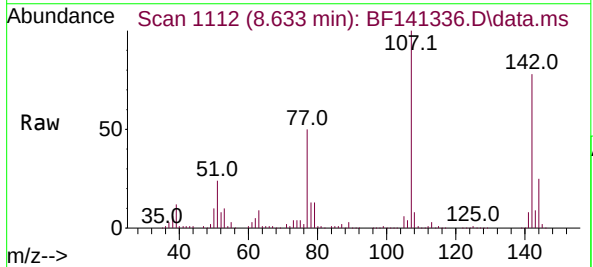
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

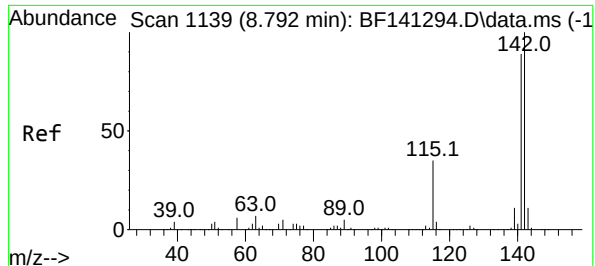
Tgt Ion:113 Resp: 101967
Ion Ratio Lower Upper
113 100
55 202.8 182.9 222.9
56 151.1 127.9 167.9



#36
4-Chloro-3-methylphenol
Concen: 43.991 ng
RT: 8.633 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:107 Resp: 380639
Ion Ratio Lower Upper
107 100
144 25.5 20.7 31.1
142 77.7 63.8 95.8





#37

2-Methylnaphthalene

Concen: 36.818 ng

RT: 8.792 min Scan# 1139

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

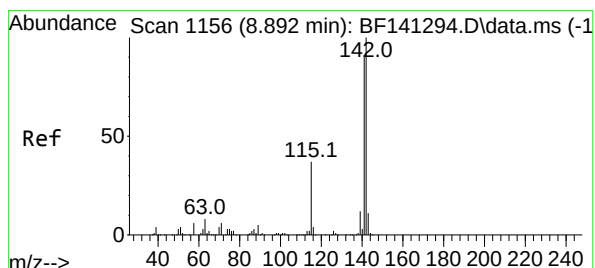
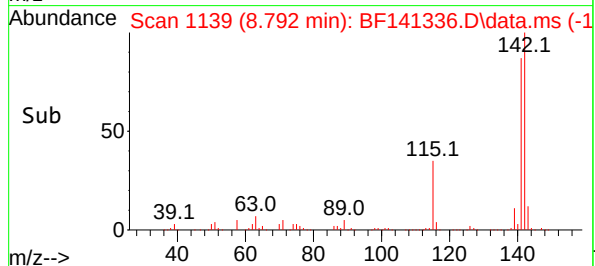
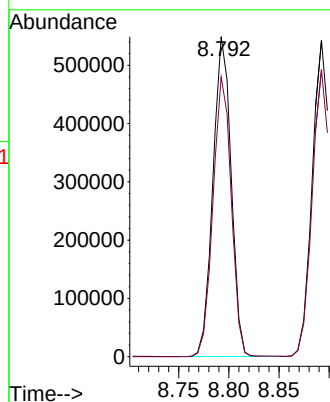
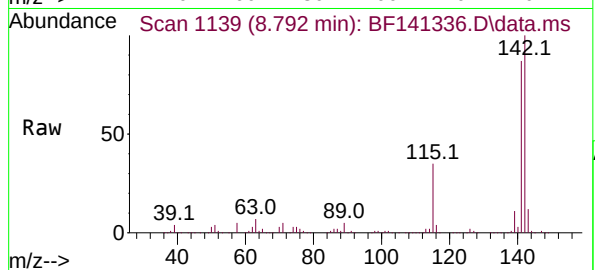
SSTDCCC040

Tgt Ion:142 Resp: 690288

Ion Ratio Lower Upper

142 100

141 87.4 71.3 106.9



#38

1-Methylnaphthalene

Concen: 36.681 ng

RT: 8.892 min Scan# 1156

Delta R.T. -0.006 min

Lab File: BF141336.D

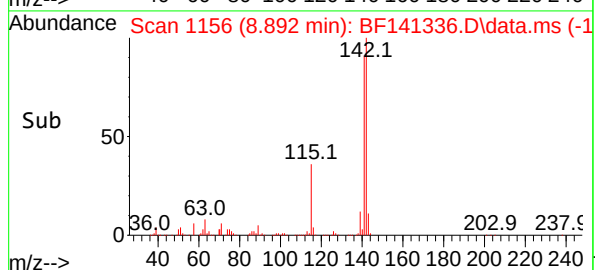
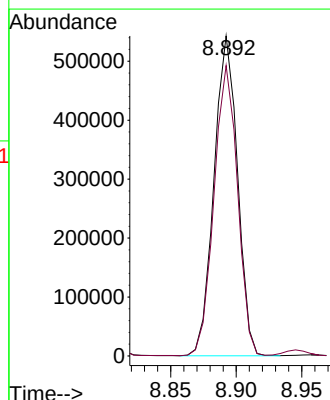
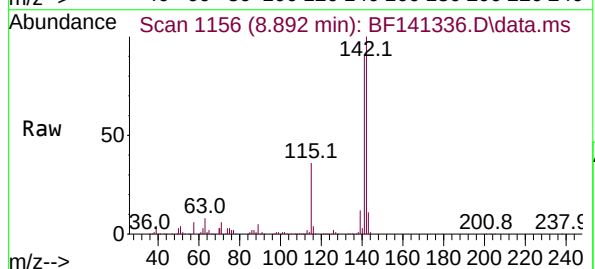
Acq: 31 Jan 2025 17:19

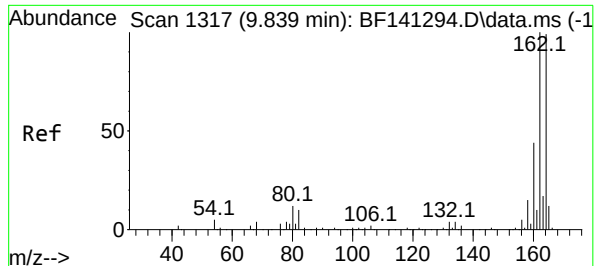
Tgt Ion:142 Resp: 675547

Ion Ratio Lower Upper

142 100

141 90.7 73.2 109.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.839 min Scan# 1117

Delta R.T. -0.000 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

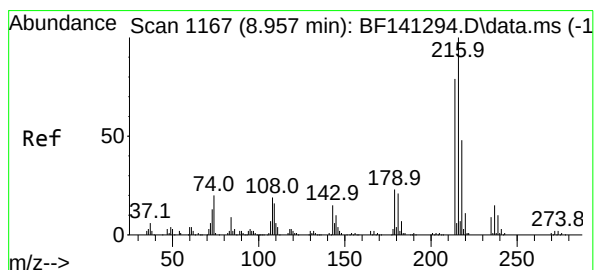
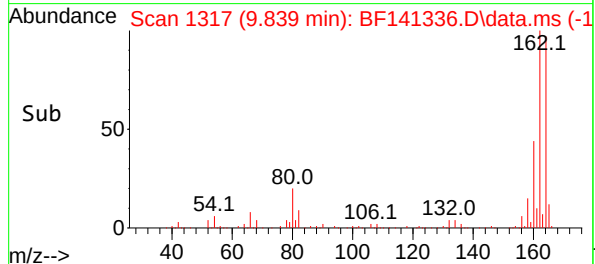
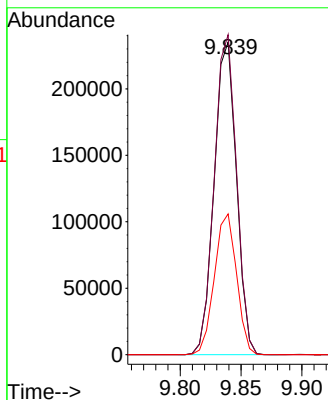
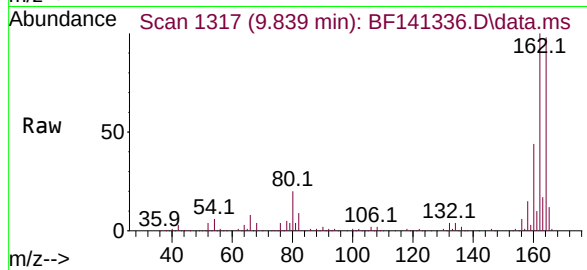
Tgt Ion:164 Resp: 299701

Ion Ratio Lower Upper

164 100

162 102.4 80.6 121.0

160 45.0 35.8 53.6



#40

1,2,4,5-Tetrachlorobenzene

Concen: 36.224 ng

RT: 8.957 min Scan# 1167

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Tgt Ion:216 Resp: 308854

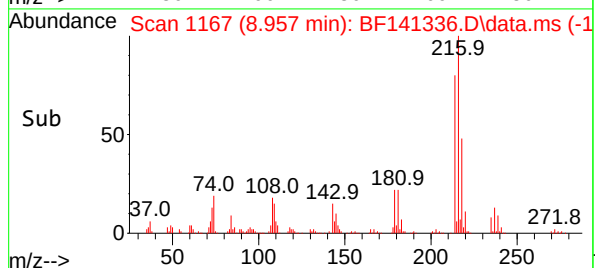
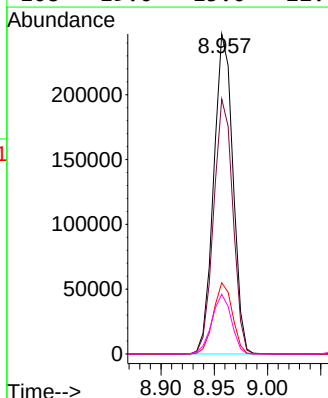
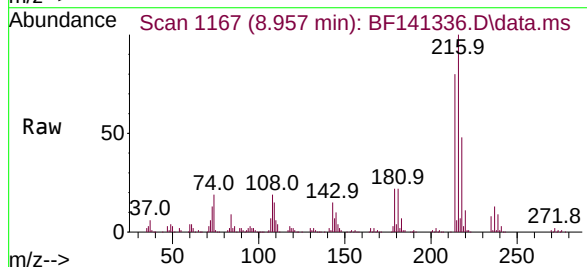
Ion Ratio Lower Upper

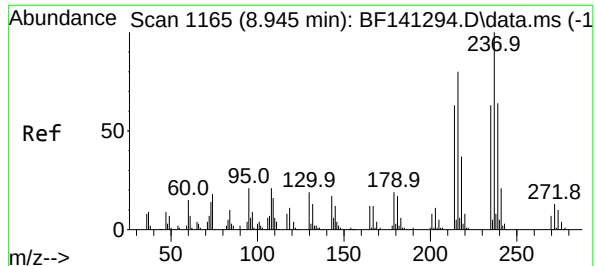
216 100

214 79.6 63.2 94.8

179 22.0 17.8 26.8

108 19.0 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 37.949 ng

RT: 8.945 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

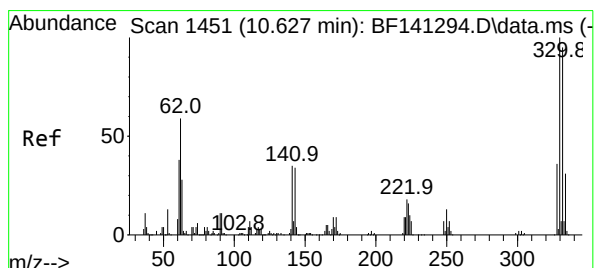
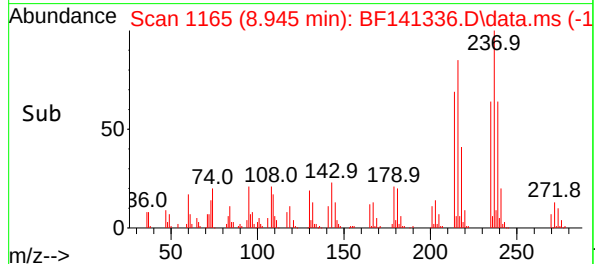
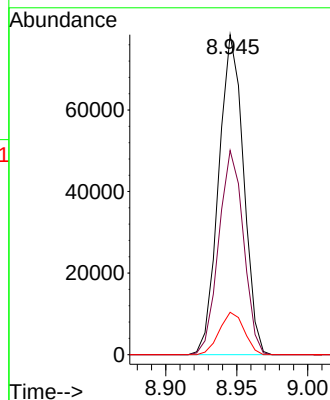
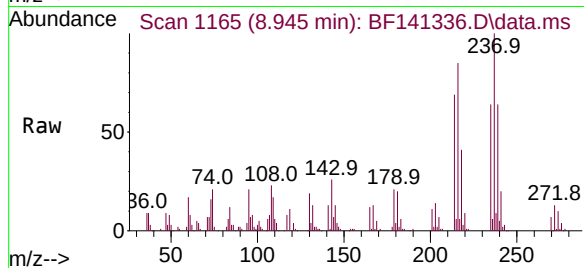
Tgt Ion:237 Resp: 95556

Ion Ratio Lower Upper

237 100

235 63.8 42.9 82.9

272 13.2 0.0 32.8



#42

2,4,6-Tribromophenol

Concen: 77.122 ng

RT: 10.628 min Scan# 1451

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

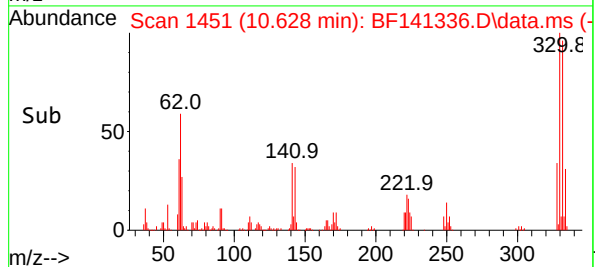
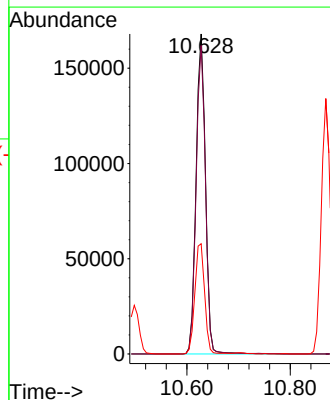
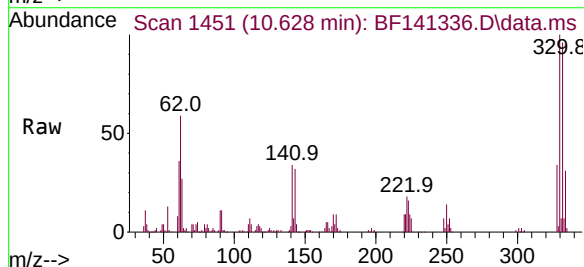
Tgt Ion:330 Resp: 211897

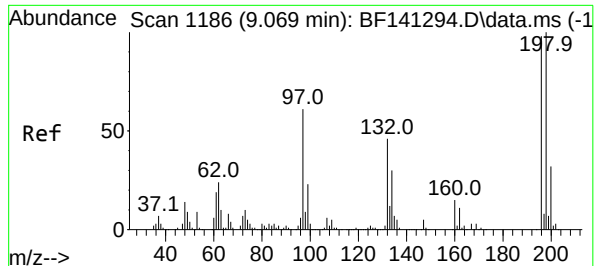
Ion Ratio Lower Upper

330 100

332 95.8 76.1 114.1

141 35.9 28.8 43.2





#43

2,4,6-Trichlorophenol

Concen: 39.199 ng

RT: 9.069 min Scan# 1186

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

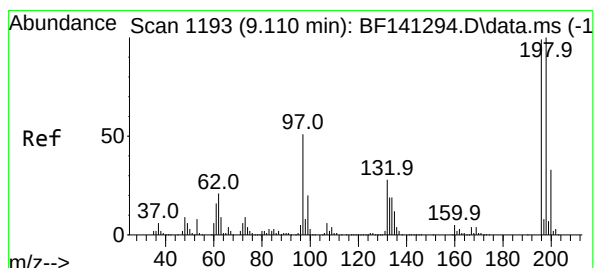
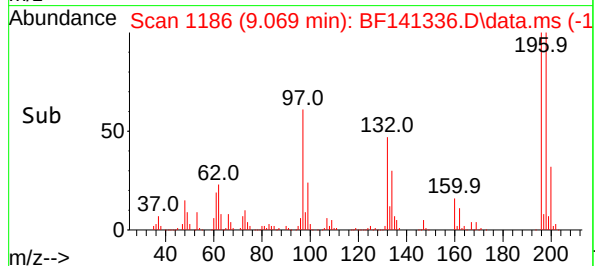
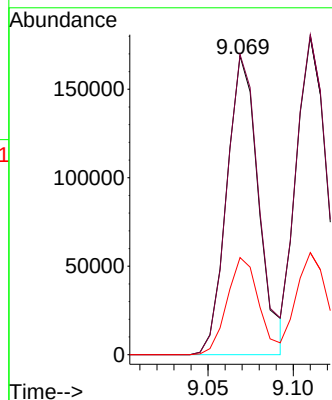
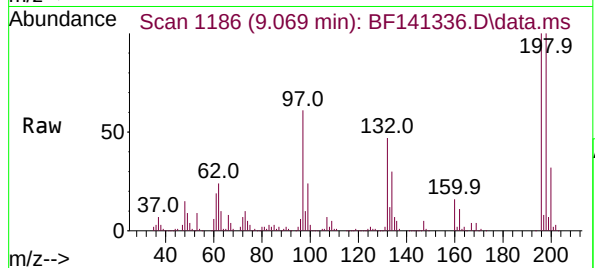
Tgt Ion:196 Resp: 218757

Ion Ratio Lower Upper

196 100

198 100.5 81.8 122.6

200 32.5 26.3 39.5



#44

2,4,5-Trichlorophenol

Concen: 37.608 ng

RT: 9.110 min Scan# 1193

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Tgt Ion:196 Resp: 228427

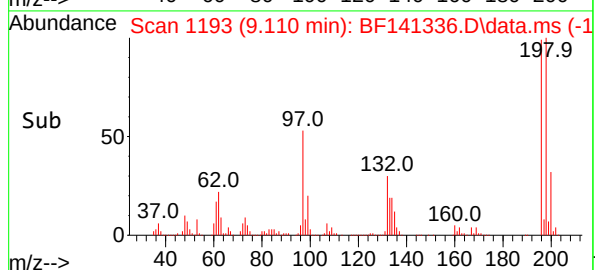
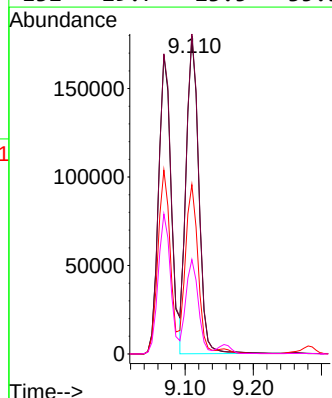
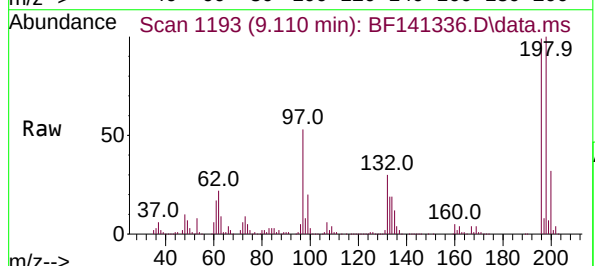
Ion Ratio Lower Upper

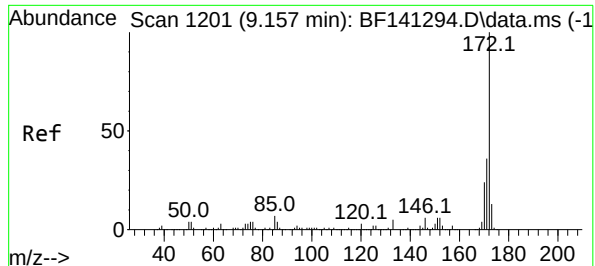
196 100

198 100.7 80.5 120.7

97 53.3 42.8 64.2

132 29.7 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 70.690 ng

RT: 9.157 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

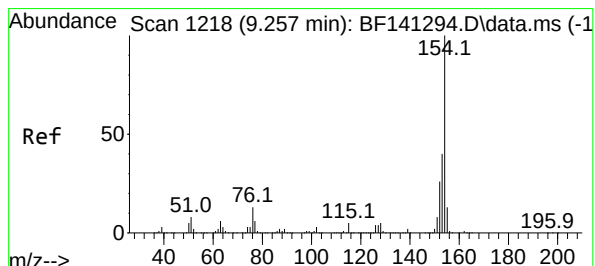
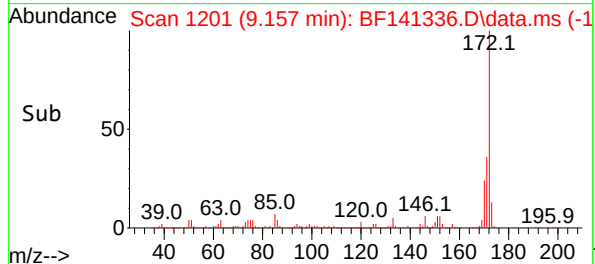
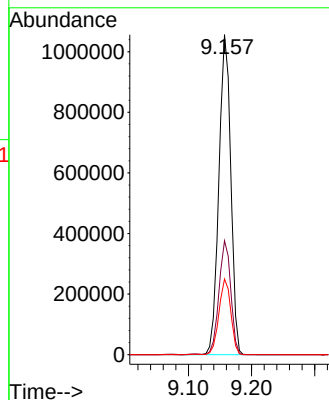
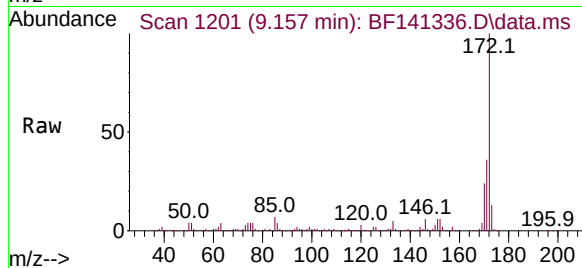
Tgt Ion:172 Resp: 1376427

Ion Ratio Lower Upper

172 100

171 35.6 28.8 43.2

170 23.7 19.0 28.6



#46

1,1'-Biphenyl

Concen: 36.585 ng

RT: 9.257 min Scan# 1218

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

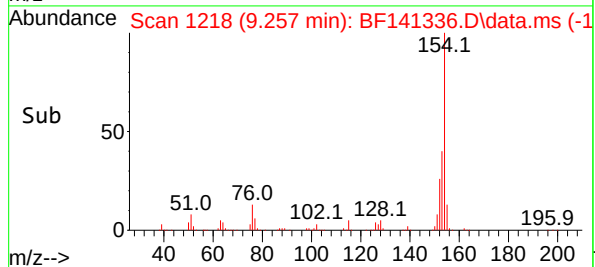
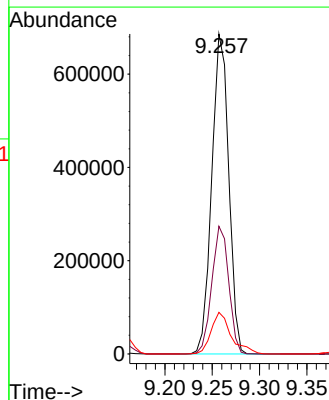
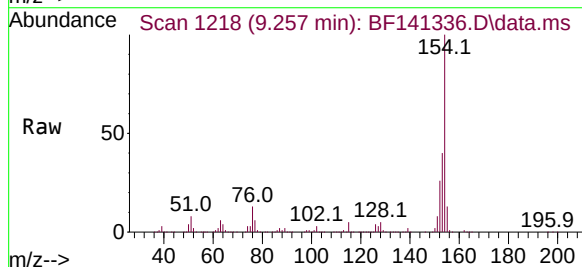
Tgt Ion:154 Resp: 855111

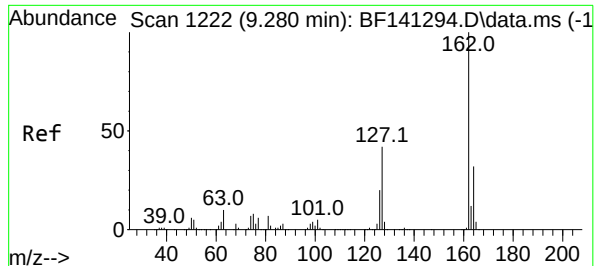
Ion Ratio Lower Upper

154 100

153 39.9 20.0 60.0

76 13.0 0.0 32.8





#47

2-Chloronaphthalene

Concen: 36.251 ng

RT: 9.281 min Scan# 1222

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

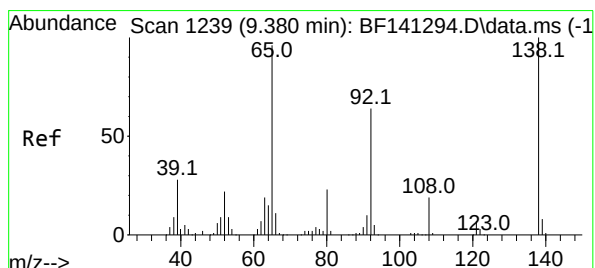
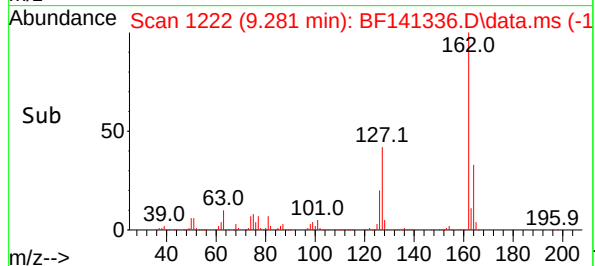
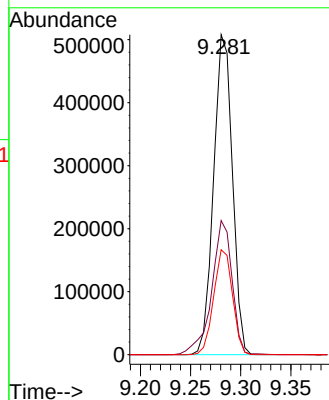
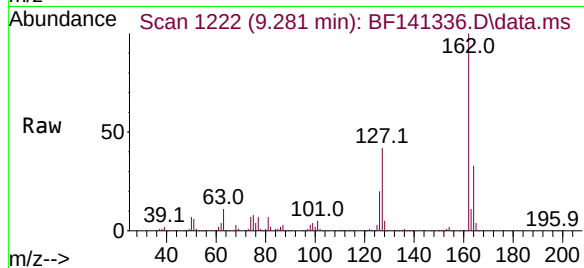
Tgt Ion:162 Resp: 660426

Ion Ratio Lower Upper

162 100

127 41.9 33.7 50.5

164 32.8 25.9 38.9



#48

2-Nitroaniline

Concen: 38.330 ng

RT: 9.381 min Scan# 1239

Delta R.T. -0.000 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

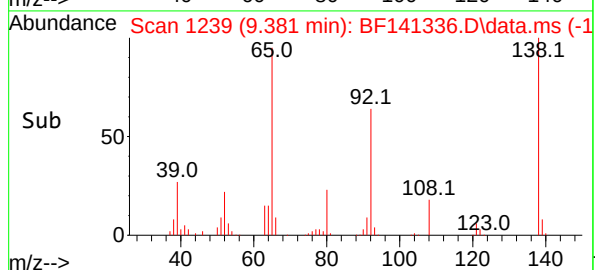
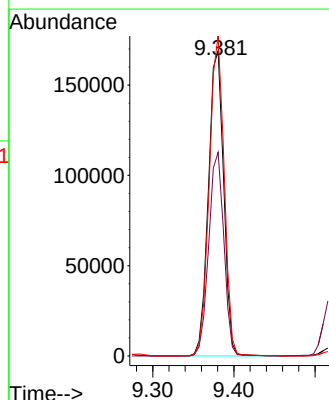
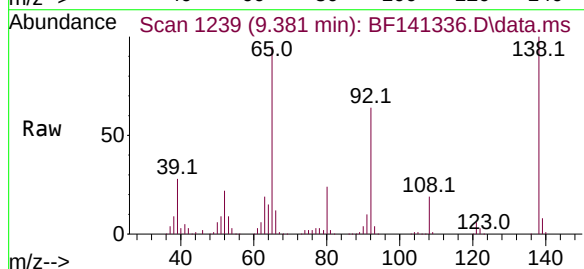
Tgt Ion: 65 Resp: 219643

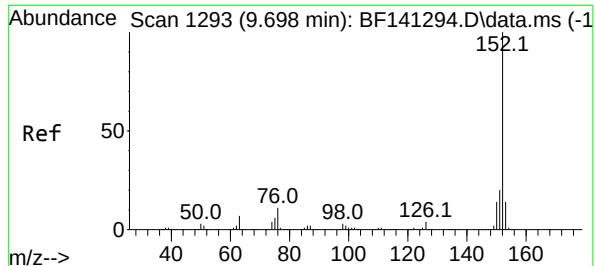
Ion Ratio Lower Upper

65 100

92 66.8 53.3 79.9

138 104.9 83.6 125.4





#49

Acenaphthylene

Concen: 37.073 ng

RT: 9.698 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

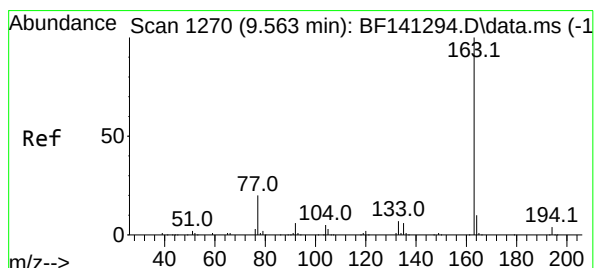
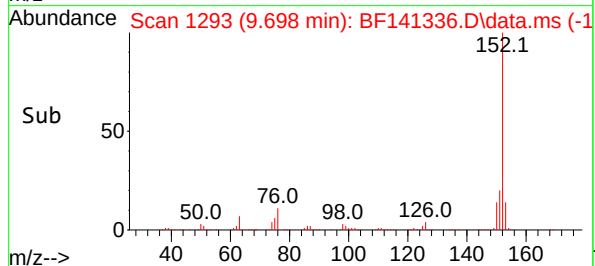
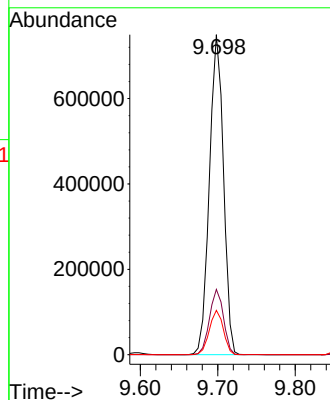
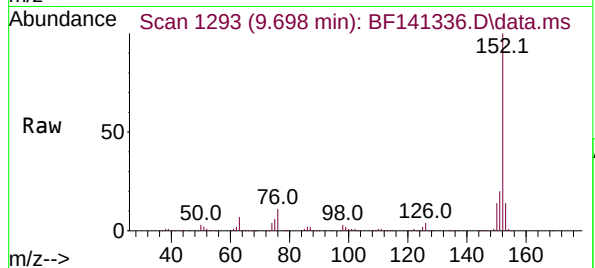
Tgt Ion:152 Resp: 945423

Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.2

153 13.9 11.0 16.6



#50

Dimethylphthalate

Concen: 38.200 ng

RT: 9.563 min Scan# 1270

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

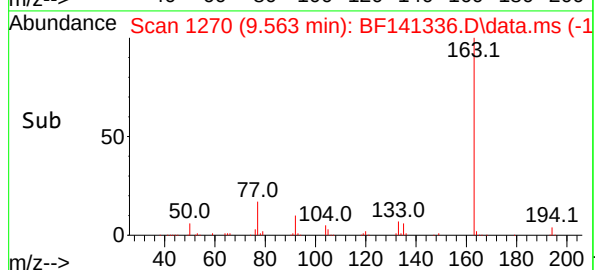
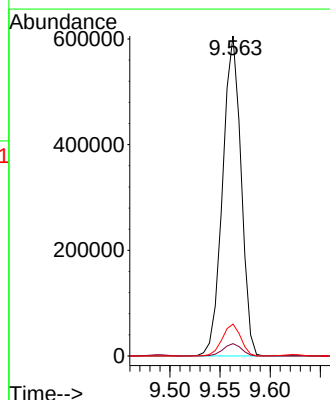
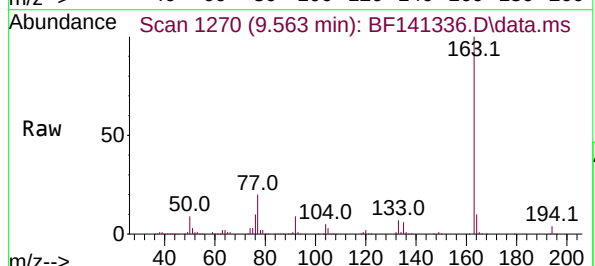
Tgt Ion:163 Resp: 773243

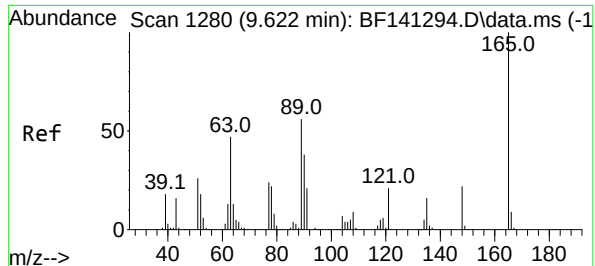
Ion Ratio Lower Upper

163 100

194 3.9 3.0 4.6

164 9.9 8.0 12.0





#51

2,6-Dinitrotoluene

Concen: 38.268 ng

RT: 9.622 min Scan# 1280

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

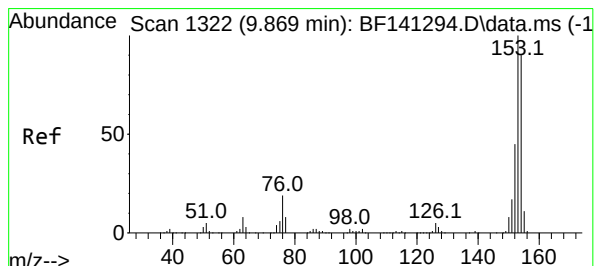
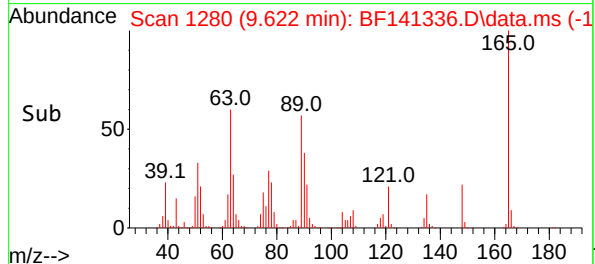
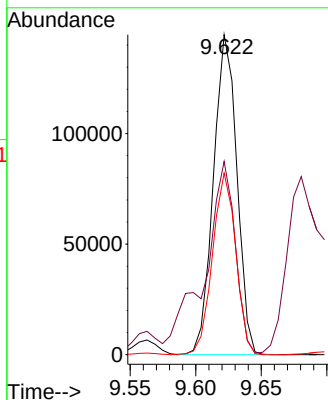
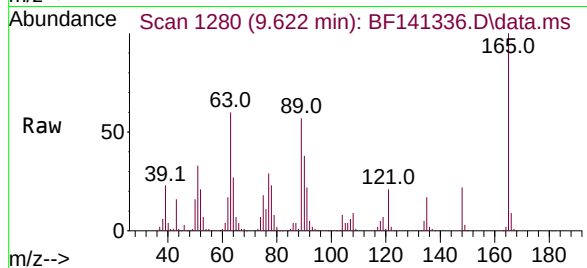
Tgt Ion:165 Resp: 179857

Ion Ratio Lower Upper

165 100

63 60.4 48.1 72.1

89 56.7 44.9 67.3



#52

Acenaphthene

Concen: 37.066 ng

RT: 9.869 min Scan# 1322

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

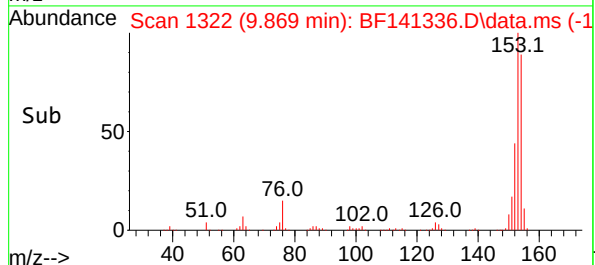
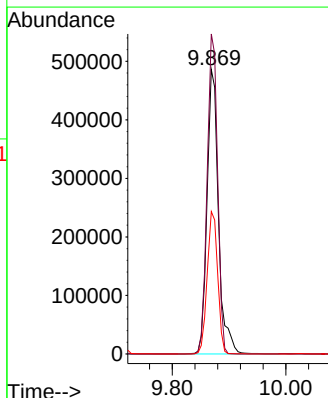
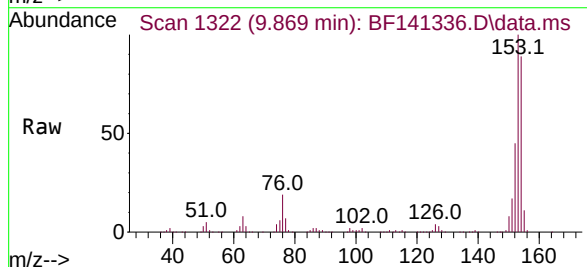
Tgt Ion:154 Resp: 675302

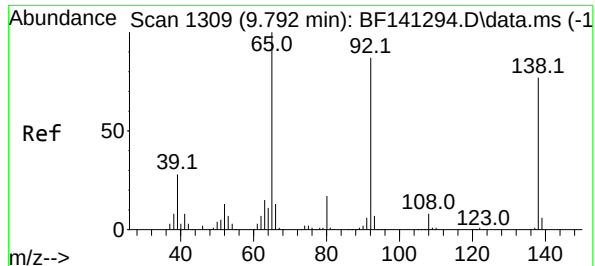
Ion Ratio Lower Upper

154 100

153 112.5 89.0 133.4

152 50.1 40.2 60.4





#53

3-Nitroaniline

Concen: 37.936 ng

RT: 9.792 min Scan# 1309

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

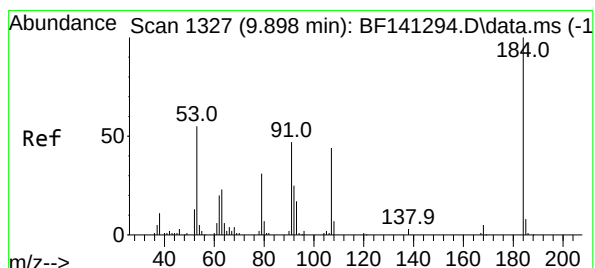
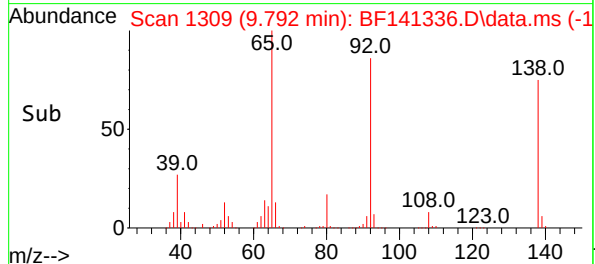
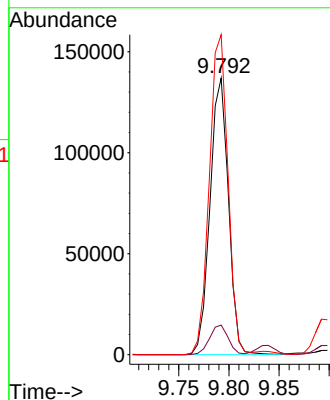
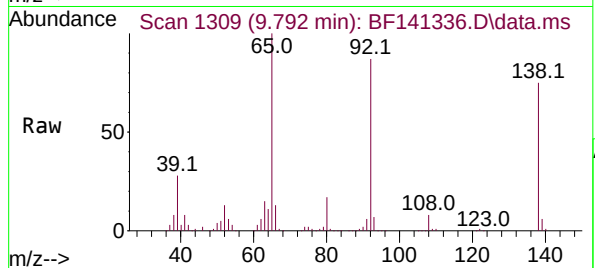
Tgt Ion:138 Resp: 174746

Ion Ratio Lower Upper

138 100

108 10.7 8.6 12.8

92 115.7 91.0 136.6



#54

2,4-Dinitrophenol

Concen: 41.270 ng

RT: 9.898 min Scan# 1327

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

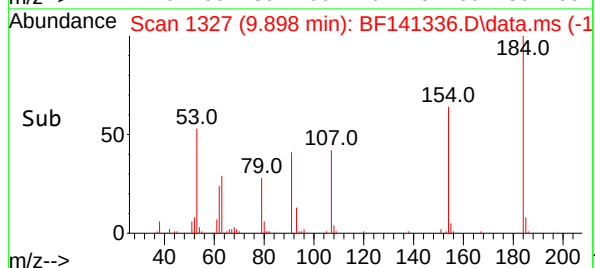
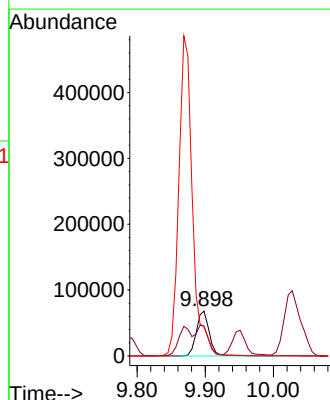
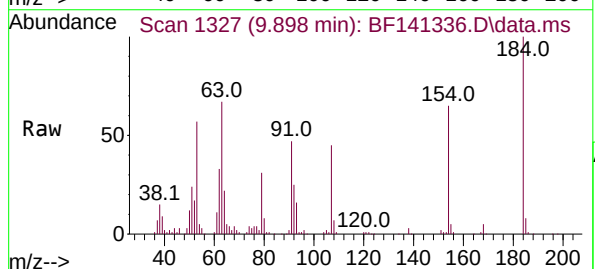
Tgt Ion:184 Resp: 90166

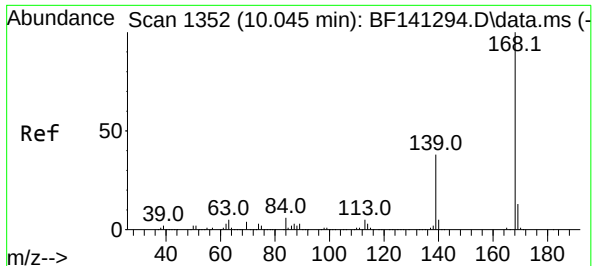
Ion Ratio Lower Upper

184 100

63 66.5 54.1 81.1

154 64.7 50.7 76.1





#55

Dibenzenofuran

Concen: 36.395 ng

RT: 10.045 min Scan# 1352

Delta R.T. -0.000 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

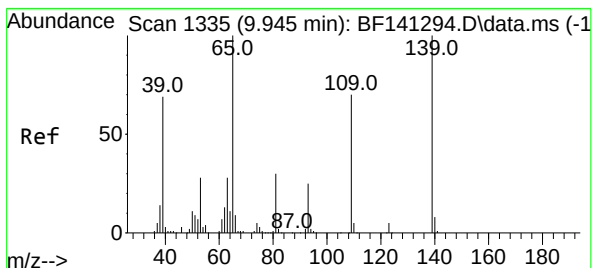
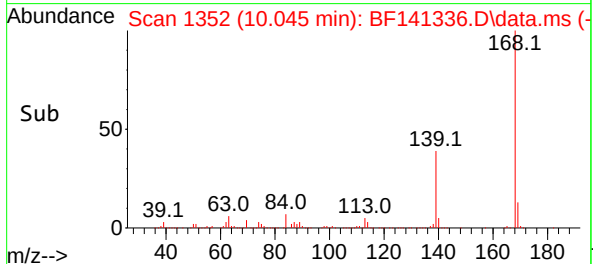
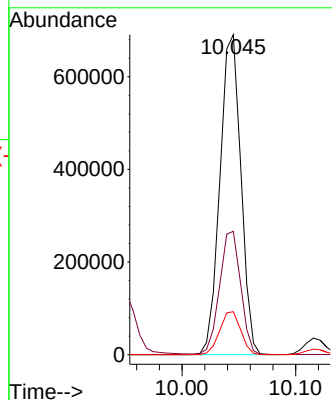
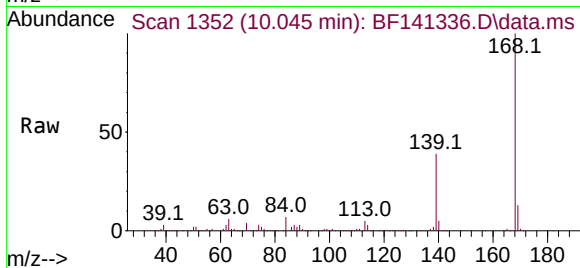
Tgt Ion:168 Resp: 887550

Ion Ratio Lower Upper

168 100

139 38.5 30.6 46.0

169 13.4 10.8 16.2



#56

4-Nitrophenol

Concen: 53.378 ng

RT: 9.951 min Scan# 1336

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

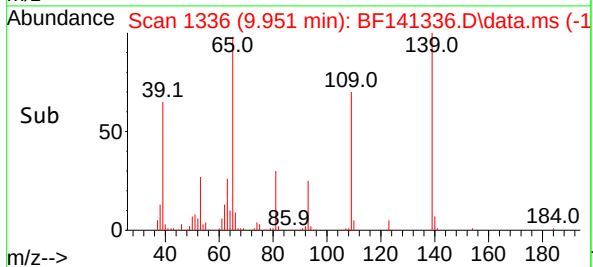
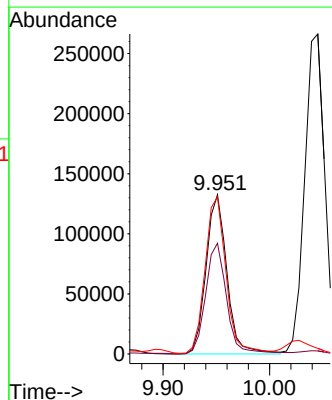
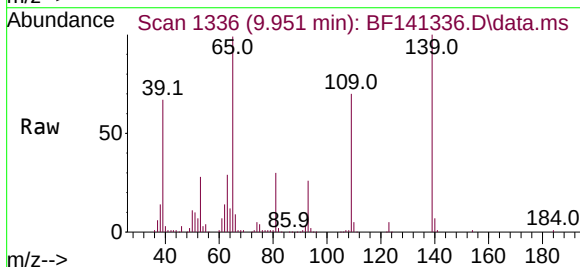
Tgt Ion:139 Resp: 179822

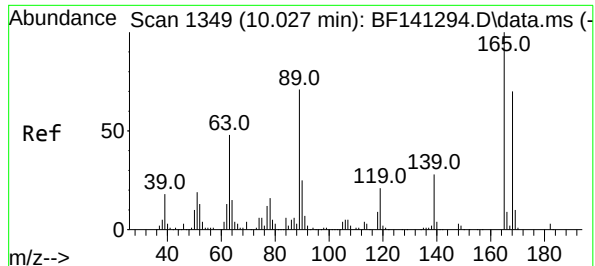
Ion Ratio Lower Upper

139 100

109 69.6 50.2 90.2

65 98.6 80.6 120.6



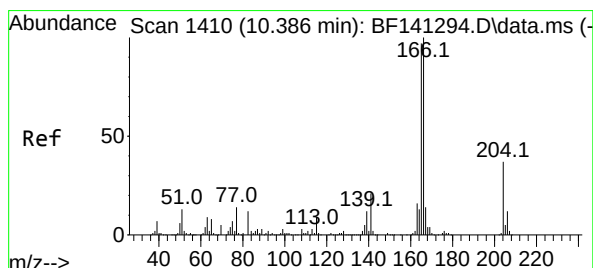
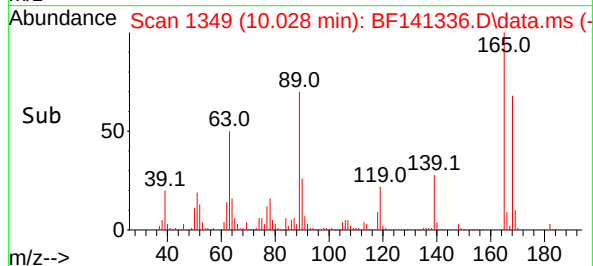
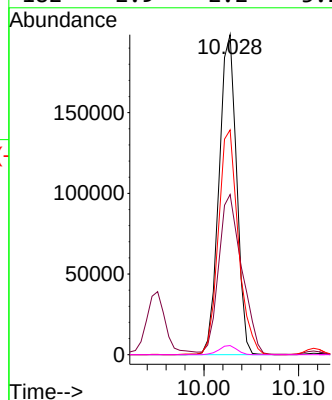
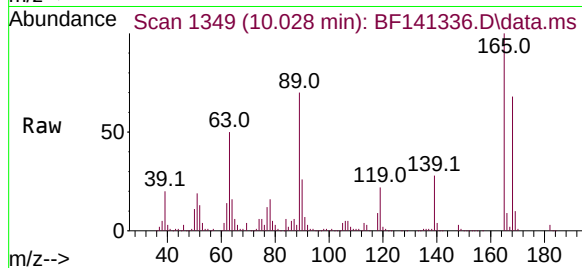


#57
2,4-Dinitrotoluene
Concen: 42.014 ng
RT: 10.028 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:165 Resp: 255655

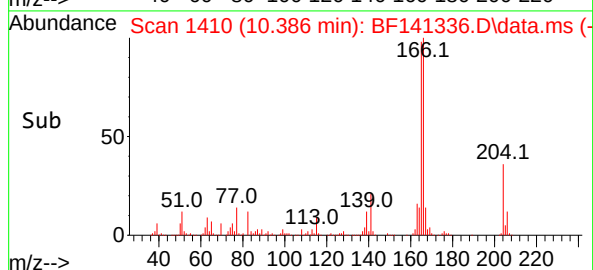
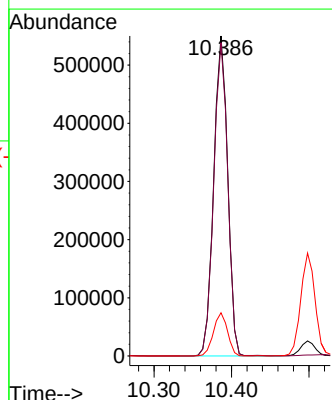
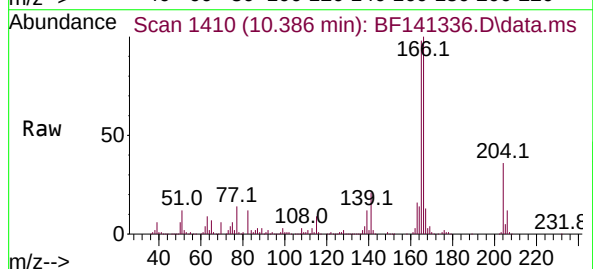
Ion	Ratio	Lower	Upper
165	100		
63	50.0	39.2	58.8
89	70.2	56.9	85.3
182	2.9	2.2	3.2

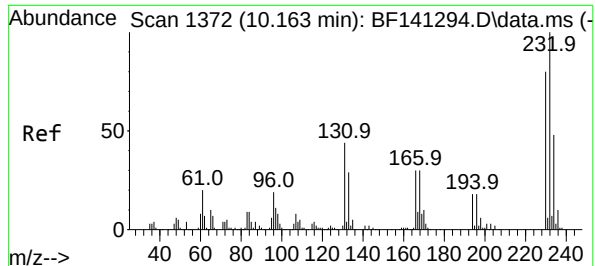


#58
Fluorene
Concen: 36.485 ng
RT: 10.386 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:166 Resp: 690153

Ion	Ratio	Lower	Upper
166	100		
165	97.9	77.5	116.3
167	13.5	10.9	16.3

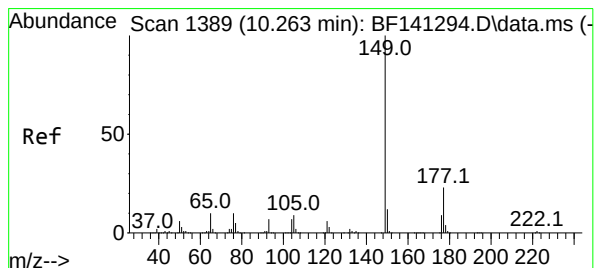
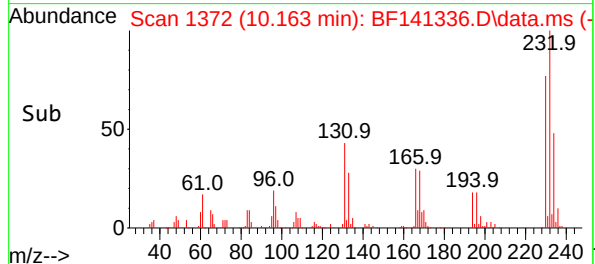
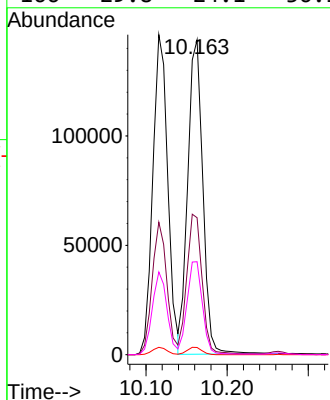
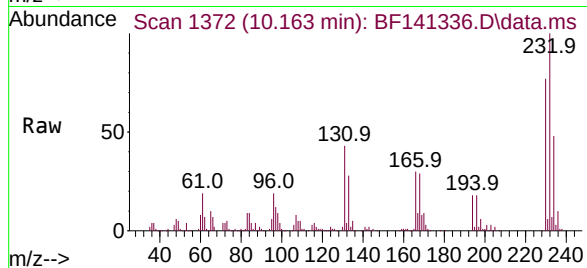




#59
2,3,4,6-Tetrachlorophenol
Concen: 38.903 ng
RT: 10.163 min Scan# 1372
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

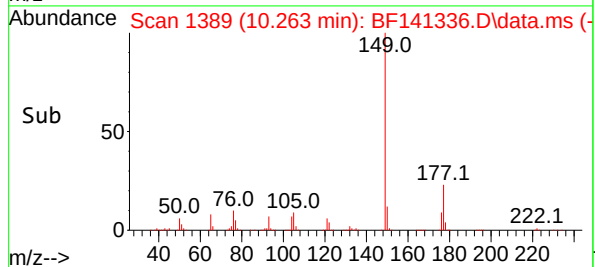
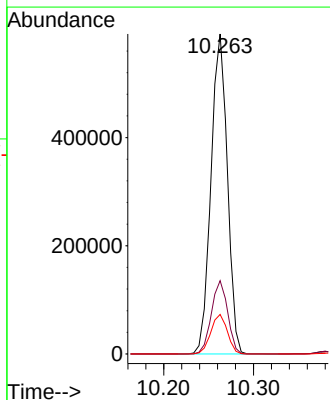
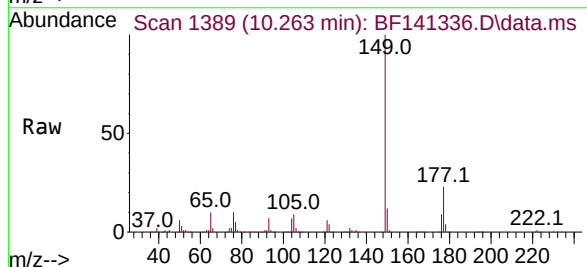
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

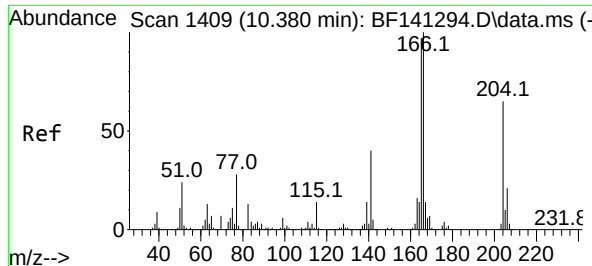
Tgt Ion:232 Resp: 185895
Ion Ratio Lower Upper
232 100
131 45.5 36.4 54.6
130 2.3 1.9 2.9
166 29.8 24.1 36.1



#60
Diethylphthalate
Concen: 38.140 ng
RT: 10.263 min Scan# 1389
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:149 Resp: 748552
Ion Ratio Lower Upper
149 100
177 22.9 18.5 27.7
150 12.4 10.0 15.0

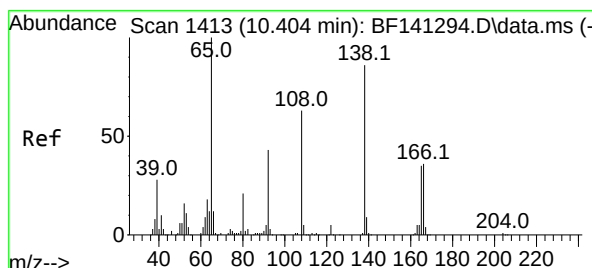
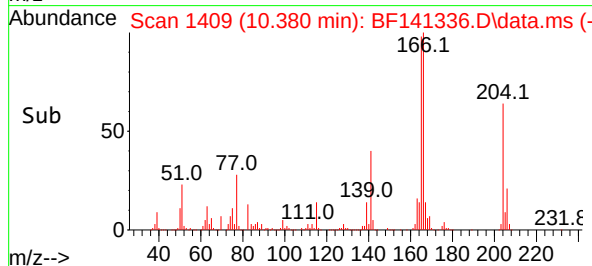
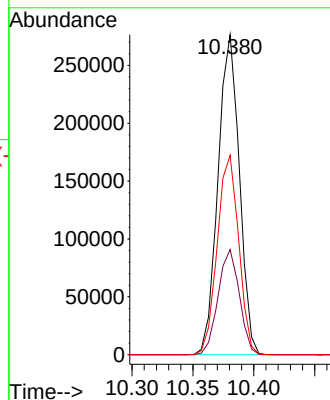
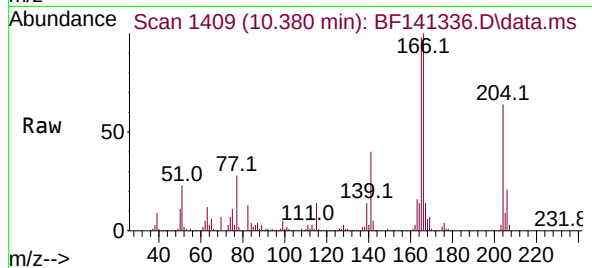




#61
4-Chlorophenyl-phenylether
Concen: 36.458 ng
RT: 10.380 min Scan# 1409
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

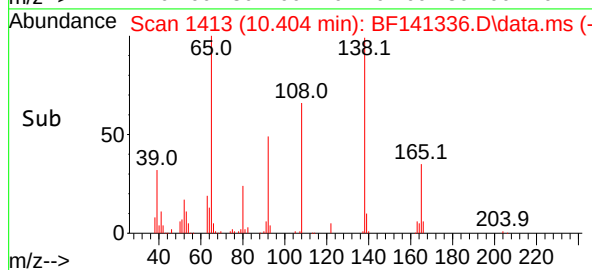
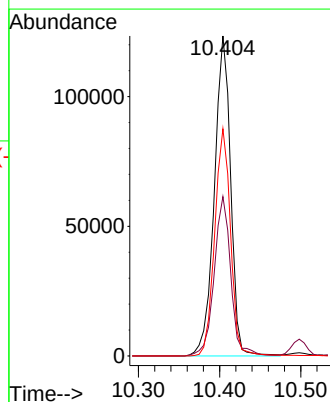
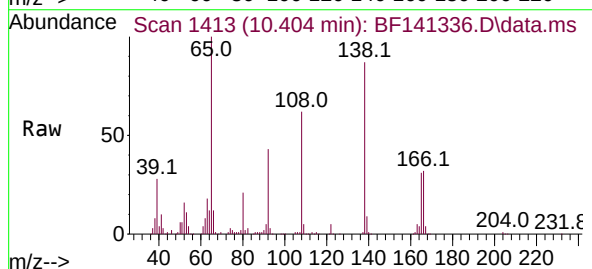
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

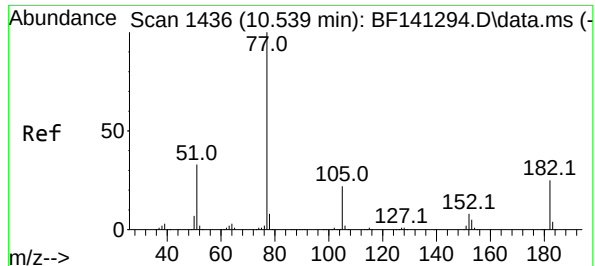
Tgt Ion:204 Resp: 336871
Ion Ratio Lower Upper
204 100
206 32.9 25.9 38.9
141 62.3 49.5 74.3



#62
4-Nitroaniline
Concen: 38.063 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:138 Resp: 172379
Ion Ratio Lower Upper
138 100
92 49.8 30.1 70.1
108 71.0 53.1 93.1

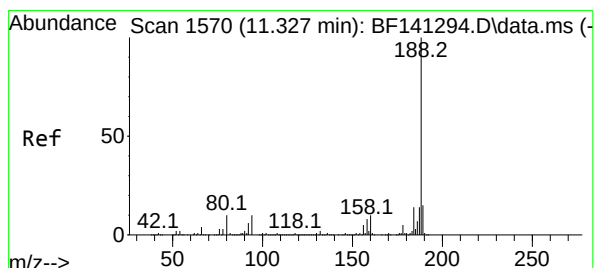
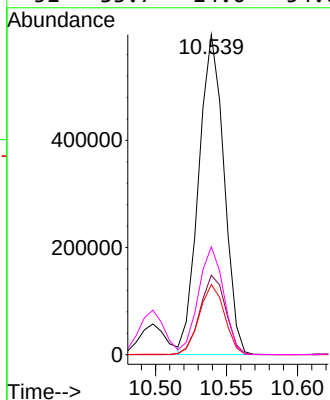
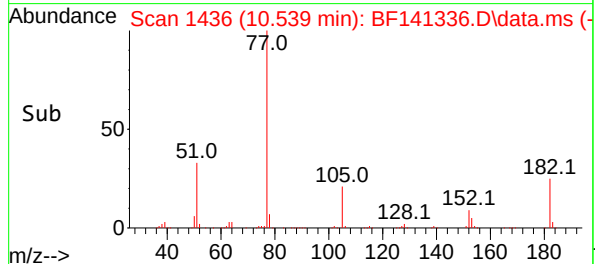
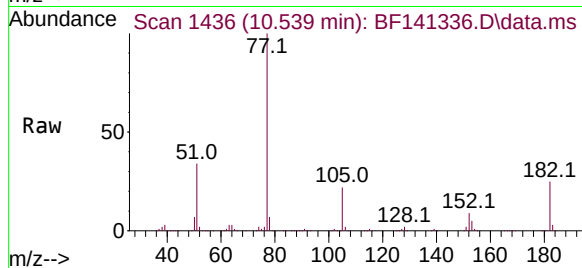




#63
Azobenzene
Concen: 37.573 ng
RT: 10.539 min Scan# 1436
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

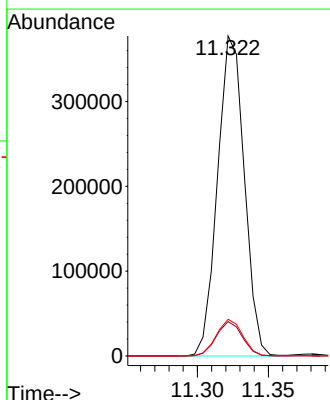
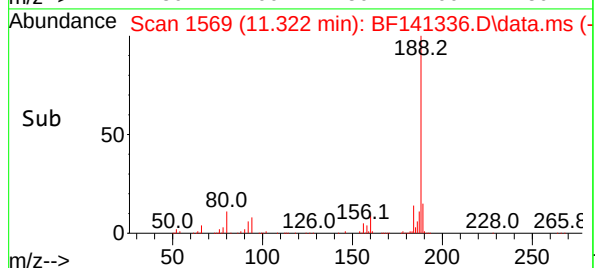
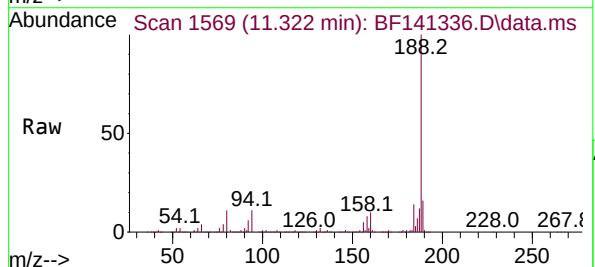
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

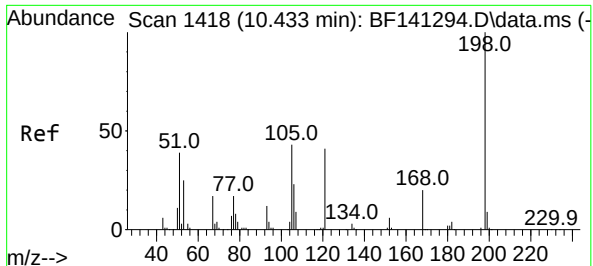
Tgt Ion: 77	Resp: 738145
Ion Ratio	Lower Upper
77 100	
182 24.8	5.1 45.1
105 21.9	1.8 41.8
51 33.7	14.0 54.0



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.322 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion: 188	Resp: 493954
Ion Ratio	Lower Upper
188 100	
94 10.7	7.8 11.6
80 11.5	8.2 12.4

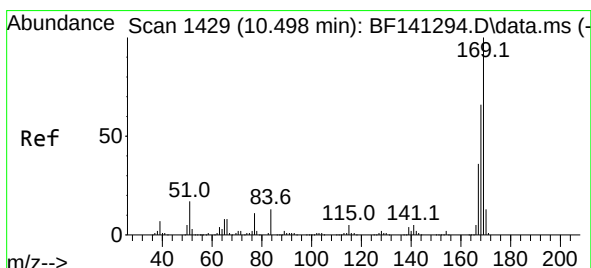
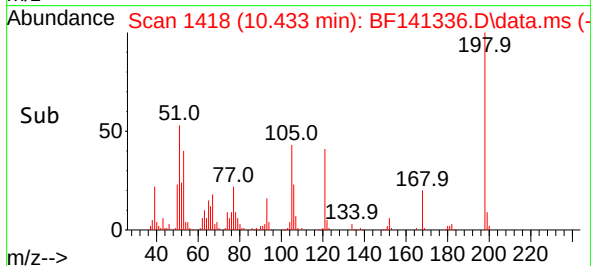
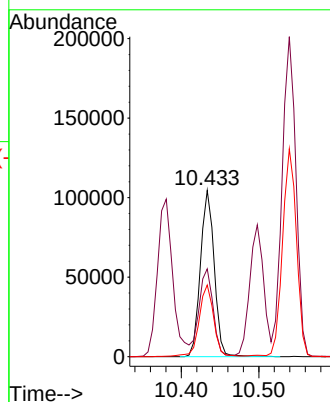
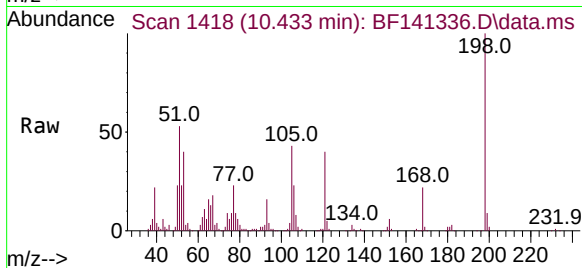




#65
4,6-Dinitro-2-methylphenol
Concen: 44.270 ng
RT: 10.433 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

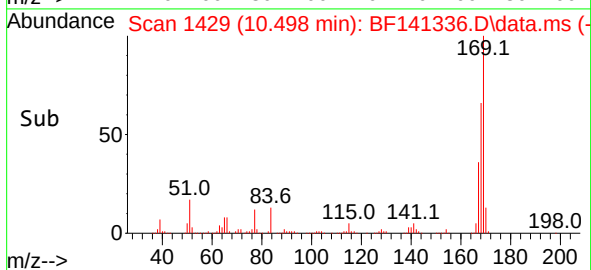
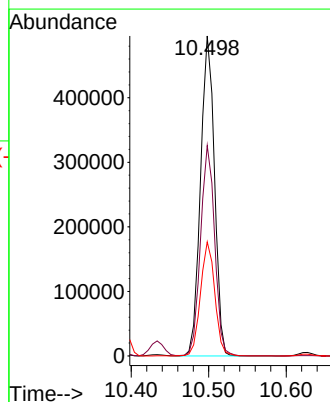
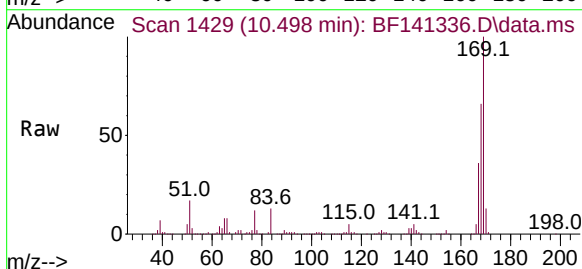
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

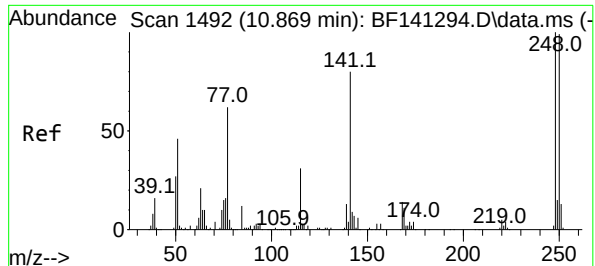
Tgt Ion:198 Resp: 129346
Ion Ratio Lower Upper
198 100
51 52.8 33.4 73.4
105 43.1 24.4 64.4



#66
n-Nitrosodiphenylamine
Concen: 38.751 ng
RT: 10.498 min Scan# 1429
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:169 Resp: 619094
Ion Ratio Lower Upper
169 100
168 65.8 53.0 79.4
167 35.7 28.8 43.2

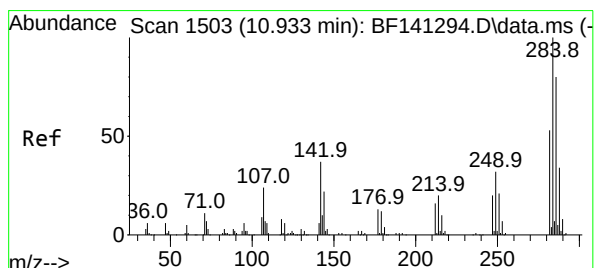
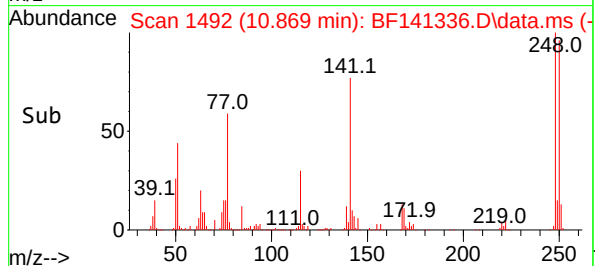
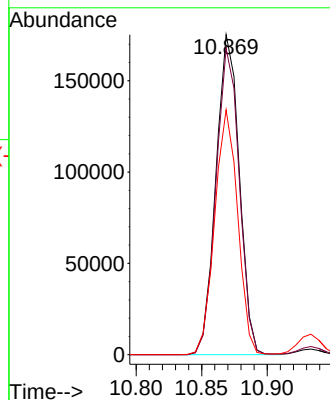
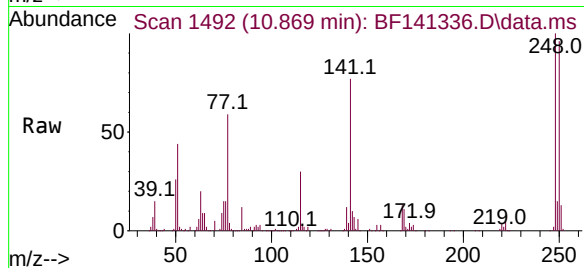




#67
4-Bromophenyl-phenylether
Concen: 39.236 ng
RT: 10.869 min Scan# 1492
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

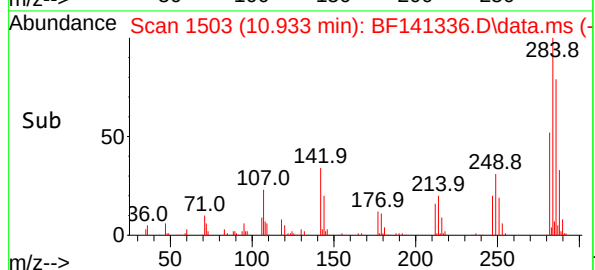
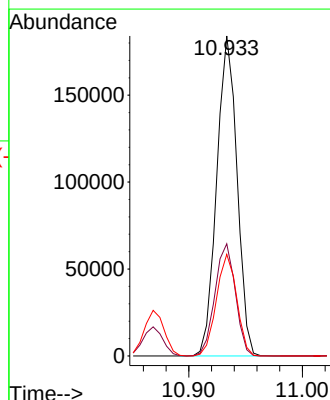
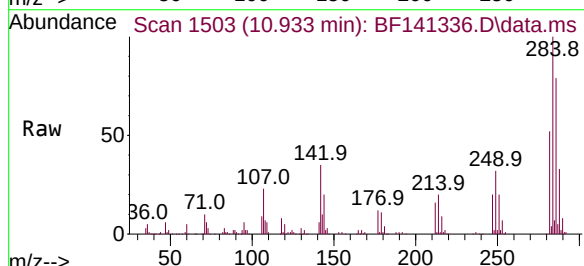
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

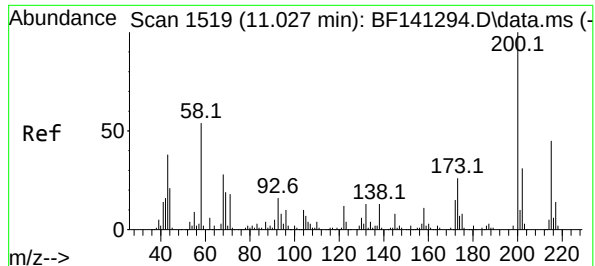
Tgt Ion:248 Resp: 216973
Ion Ratio Lower Upper
248 100
250 95.7 79.0 118.4
141 76.5 63.7 95.5



#68
Hexachlorobenzene
Concen: 38.991 ng
RT: 10.933 min Scan# 1503
Delta R.T. -0.006 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion:284 Resp: 228716
Ion Ratio Lower Upper
284 100
142 35.1 29.5 44.3
249 31.7 25.4 38.2





#69

Atrazine

Concen: 33.985 ng

RT: 11.027 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

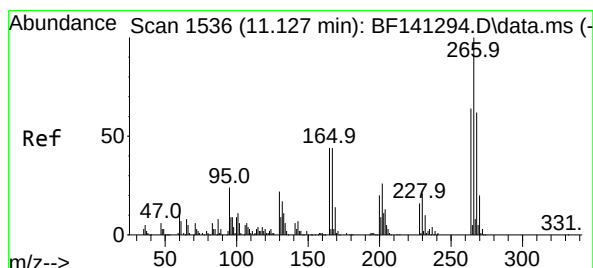
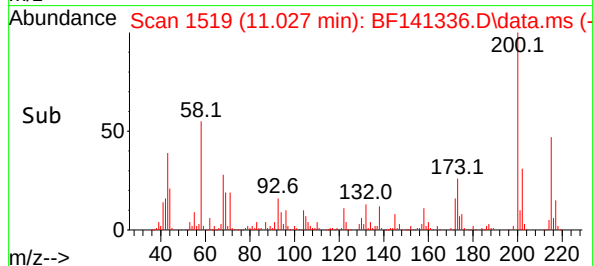
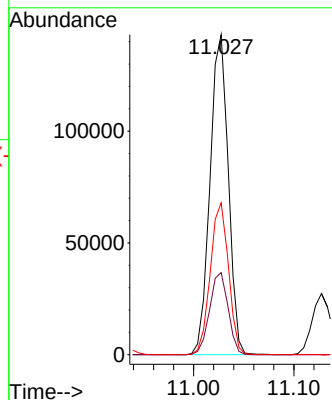
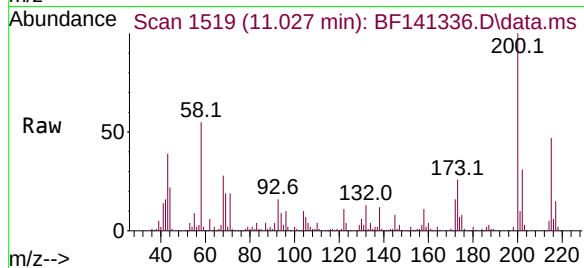
Tgt Ion:200 Resp: 181536

Ion Ratio Lower Upper

200 100

173 25.6 5.9 45.9

215 47.4 25.2 65.2



#70

Pentachlorophenol

Concen: 53.575 ng

RT: 11.127 min Scan# 1536

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

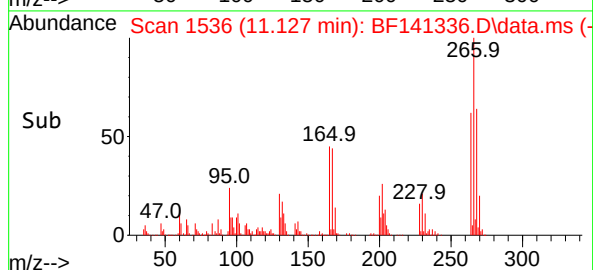
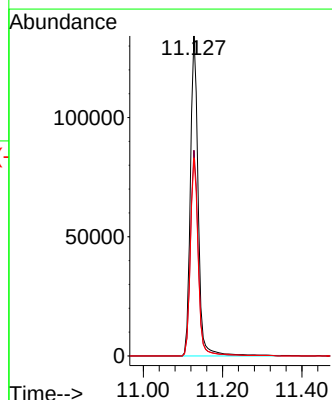
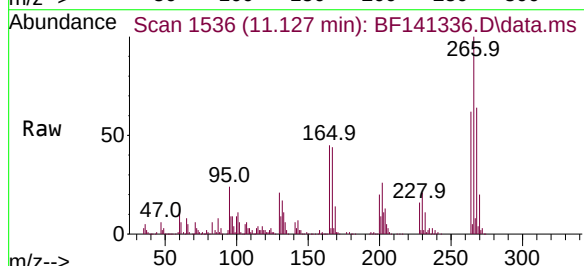
Tgt Ion:266 Resp: 184030

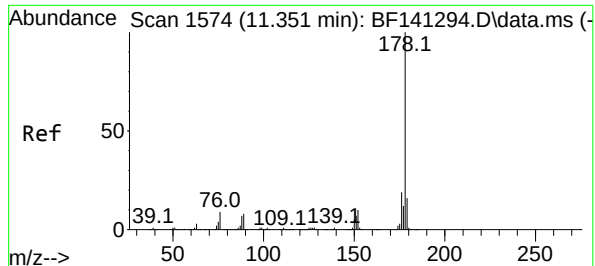
Ion Ratio Lower Upper

266 100

268 64.3 49.9 74.9

264 61.9 51.0 76.4





#71

Phenanthrene

Concen: 37.819 ng

RT: 11.351 min Scan# 1574

Delta R.T. -0.000 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

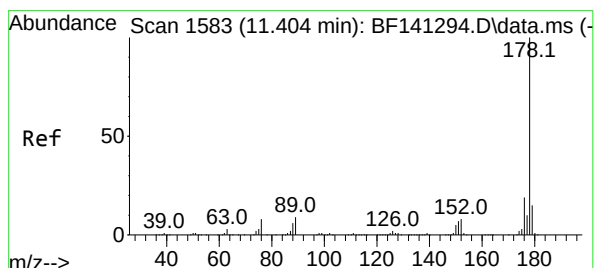
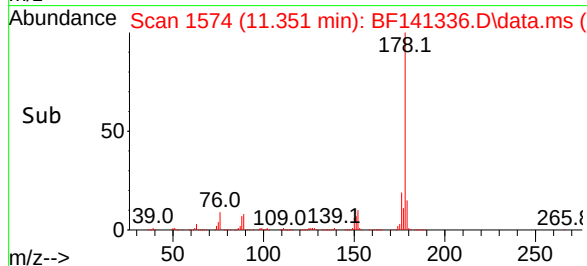
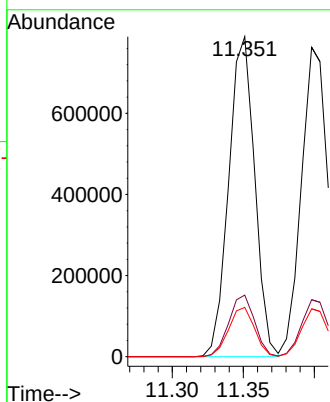
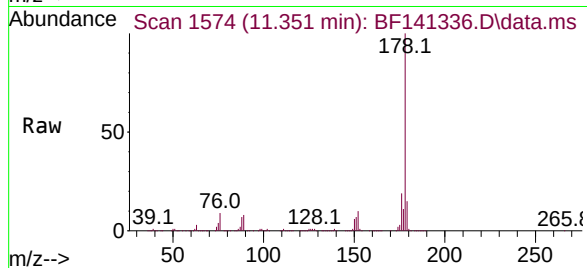
Tgt Ion:178 Resp: 1004184

Ion Ratio Lower Upper

178 100

176 19.3 15.3 22.9

179 15.4 12.5 18.7



#72

Anthracene

Concen: 37.948 ng

RT: 11.398 min Scan# 1582

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

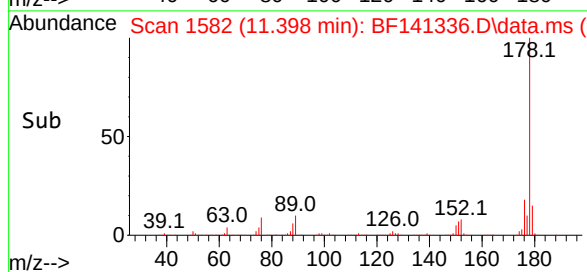
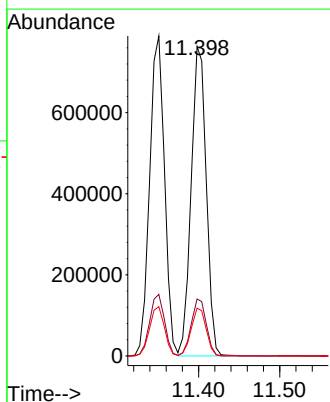
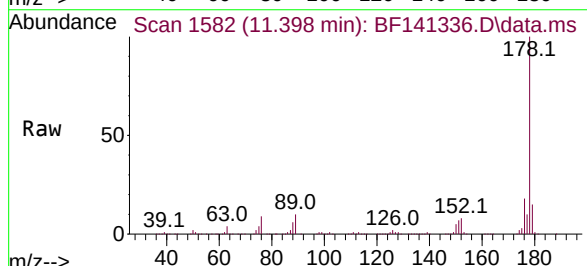
Tgt Ion:178 Resp: 987277

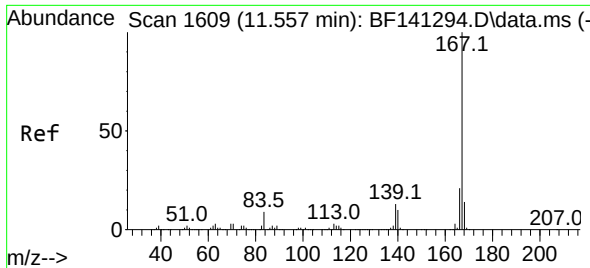
Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.6

179 15.5 12.3 18.5

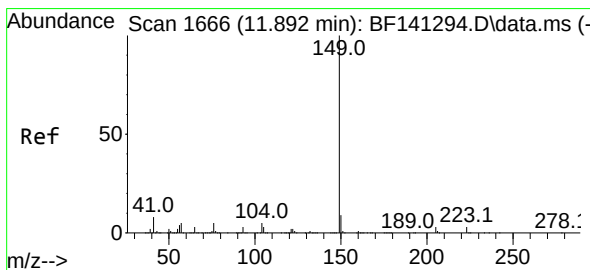
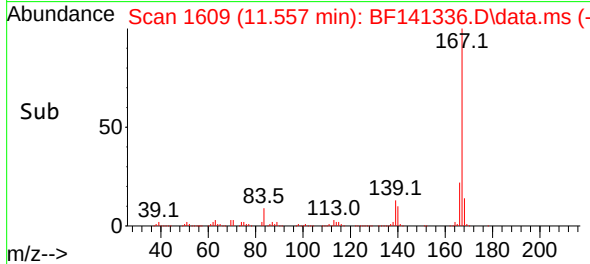
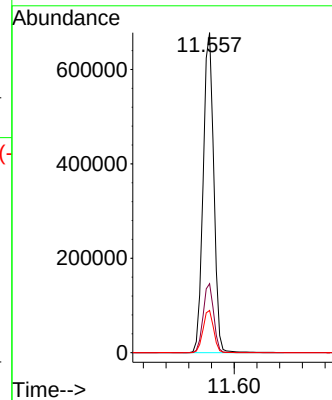
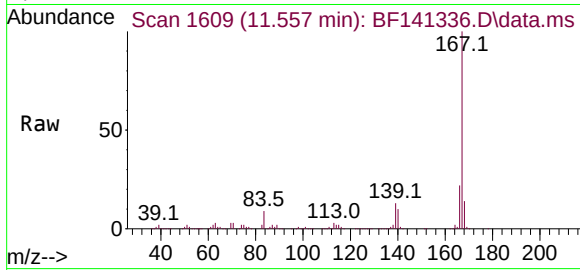




#73
Carbazole
Concen: 38.220 ng
RT: 11.557 min Scan# 1609
Delta R.T. -0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

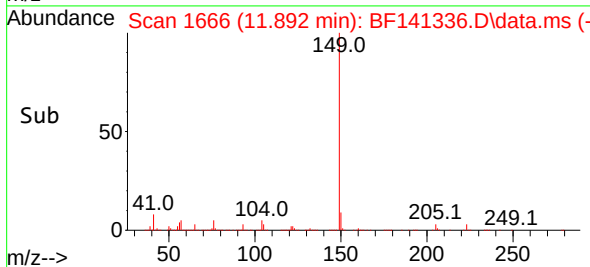
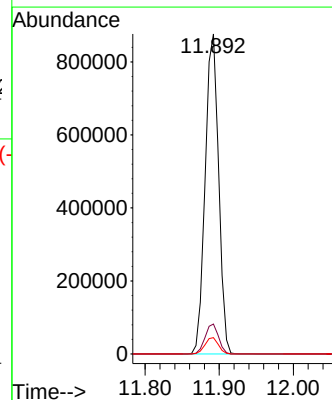
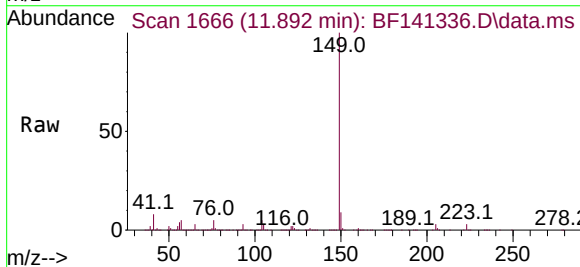
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

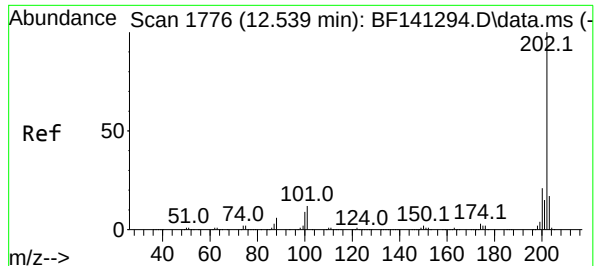
Tgt Ion	Ratio	Lower	Upper
167	100		
166	21.6	17.0	25.6
139	13.2	10.6	16.0



#74
Di-n-butylphthalate
Concen: 39.444 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion	Ratio	Lower	Upper
149	100		
150	9.4	7.4	11.2
104	5.1	3.9	5.9





#75

Fluoranthene

Concen: 38.098 ng

RT: 12.539 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

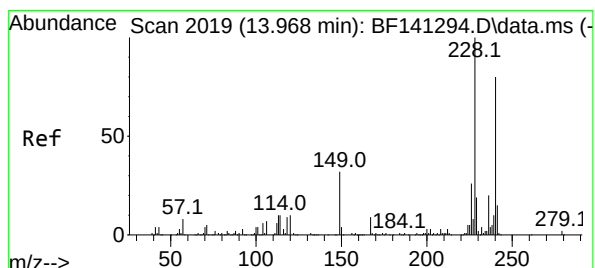
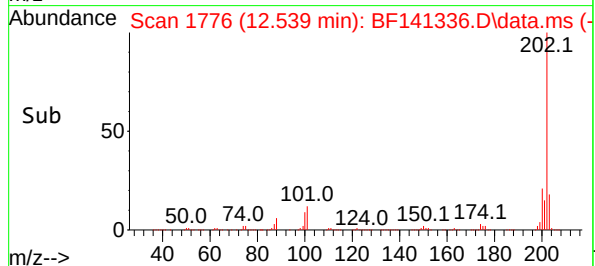
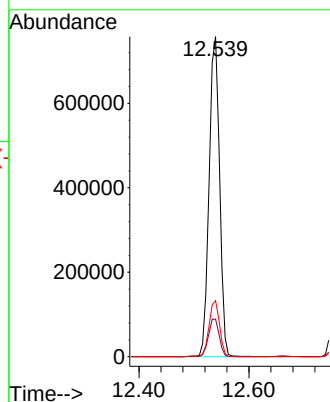
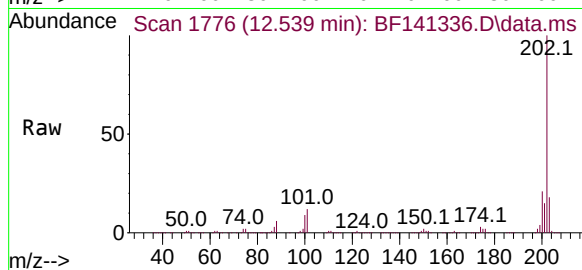
Tgt Ion:202 Resp: 998810

Ion Ratio Lower Upper

202 100

101 11.8 0.0 31.7

203 17.5 0.0 37.5



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.968 min Scan# 2019

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

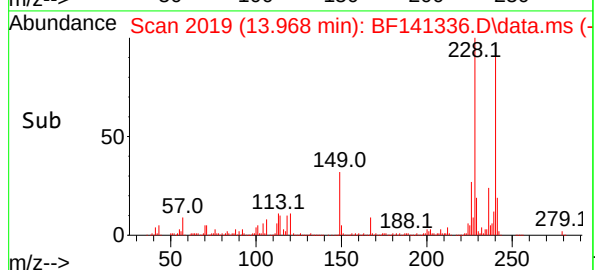
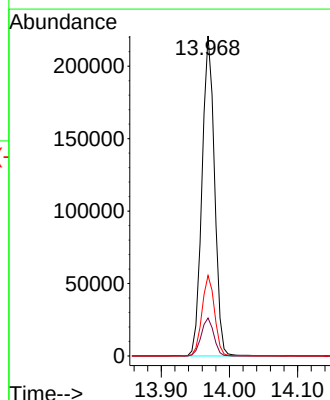
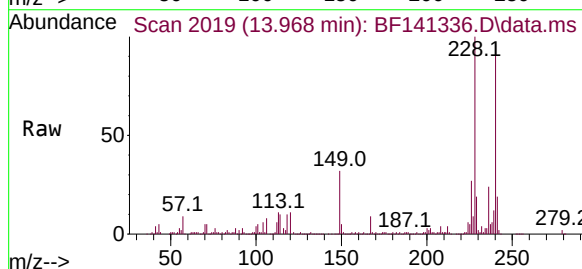
Tgt Ion:240 Resp: 281629

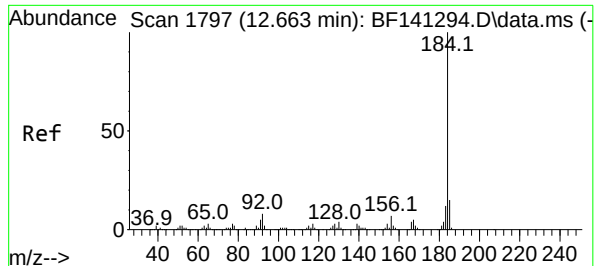
Ion Ratio Lower Upper

240 100

120 11.9 10.0 15.0

236 25.1 19.7 29.5





#77

Benzidine

Concen: 38.664 ng

RT: 12.663 min Scan# 1797

Delta R.T. -0.000 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

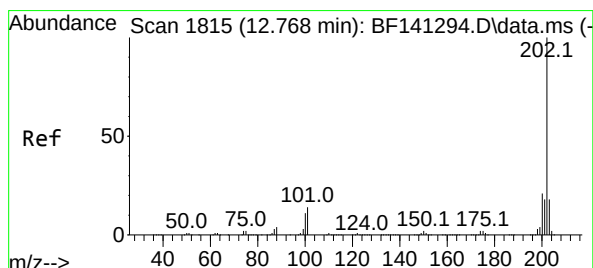
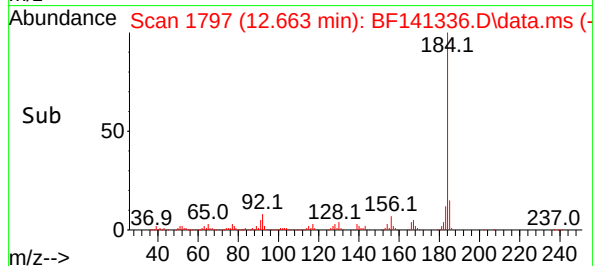
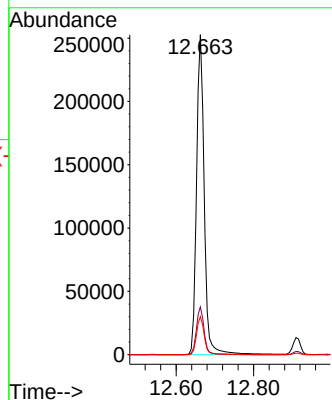
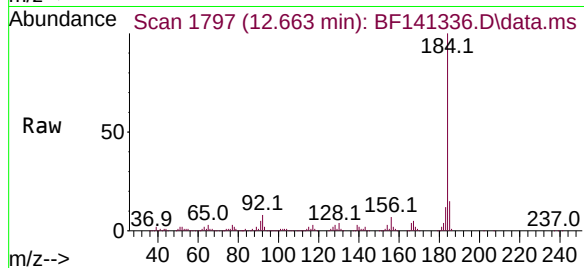
Tgt Ion:184 Resp: 349084

Ion Ratio Lower Upper

184 100

185 14.9 11.9 17.9

183 11.9 9.5 14.3



#78

Pyrene

Concen: 40.606 ng

RT: 12.769 min Scan# 1815

Delta R.T. -0.000 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

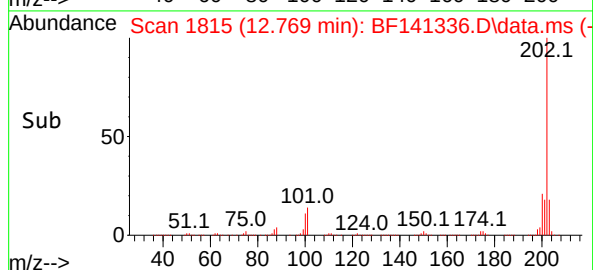
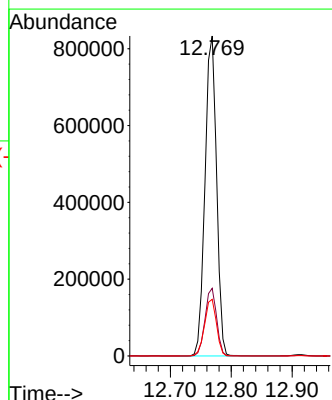
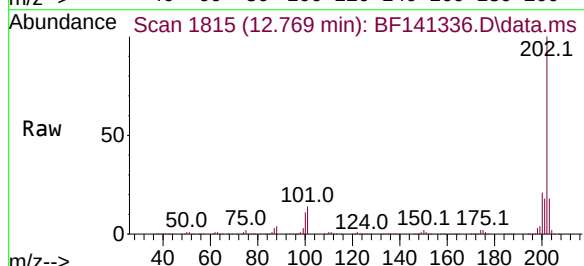
Tgt Ion:202 Resp: 1097741

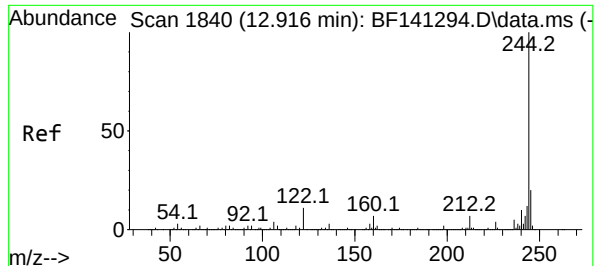
Ion Ratio Lower Upper

202 100

200 21.2 17.0 25.4

203 17.7 14.3 21.5





#79

Terphenyl-d14

Concen: 72.583 ng

RT: 12.910 min Scan# 1839

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

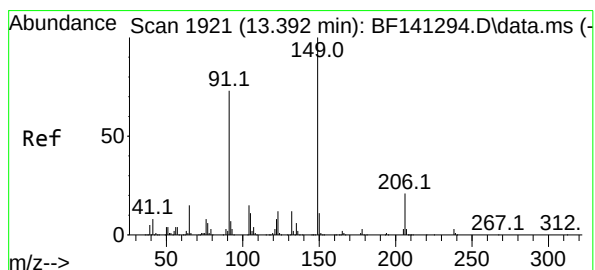
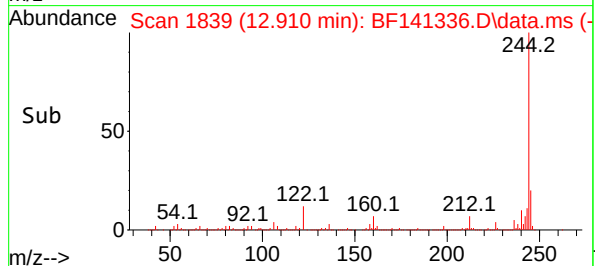
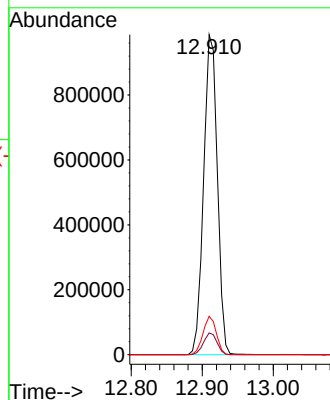
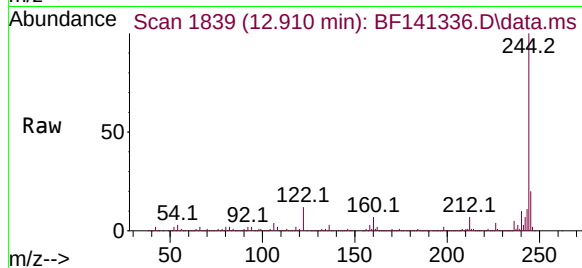
Tgt Ion:244 Resp: 1325492

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.0

122 12.0 8.8 13.2



#80

Butylbenzylphthalate

Concen: 39.103 ng

RT: 13.392 min Scan# 1921

Delta R.T. -0.000 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

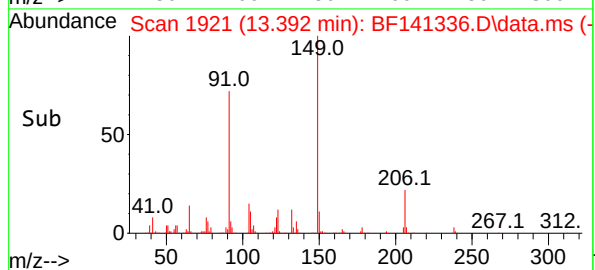
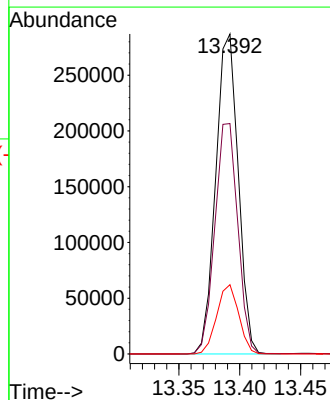
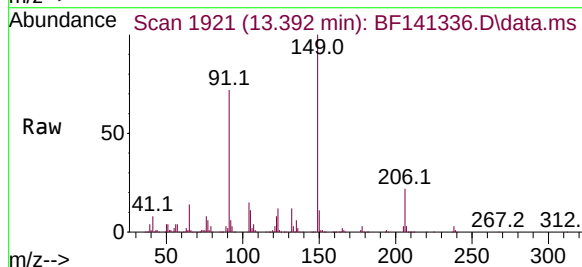
Tgt Ion:149 Resp: 369304

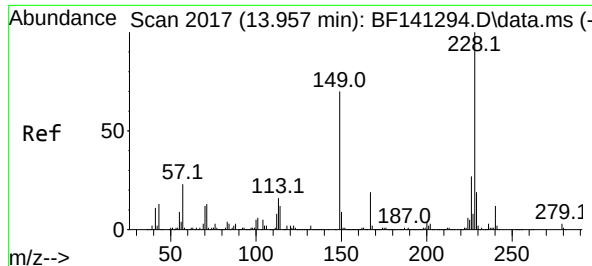
Ion Ratio Lower Upper

149 100

91 72.0 58.6 87.8

206 21.7 16.7 25.1





#81

Benzo(a)anthracene

Concen: 34.223 ng

RT: 13.957 min Scan# 2017

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

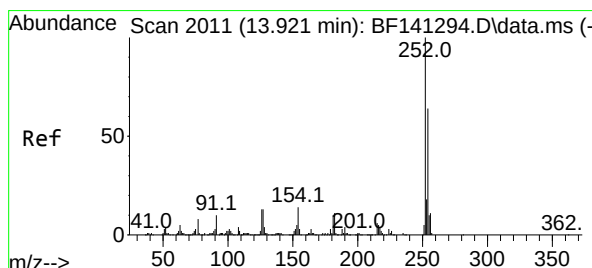
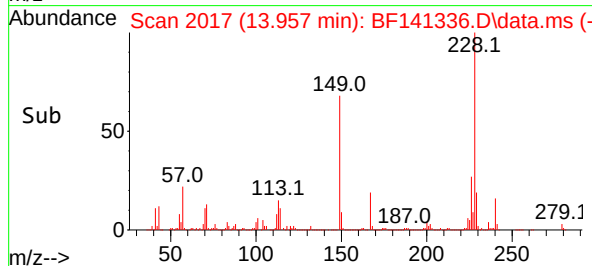
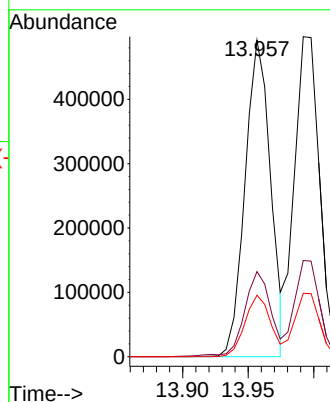
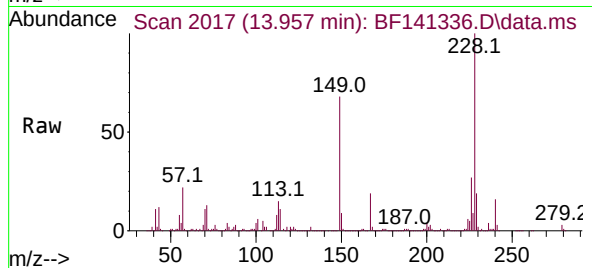
Tgt Ion:228 Resp: 665086

Ion Ratio Lower Upper

228 100

226 26.9 21.4 32.2

229 19.4 15.5 23.3



#82

3,3'-Dichlorobenzidine

Concen: 36.200 ng

RT: 13.921 min Scan# 2011

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

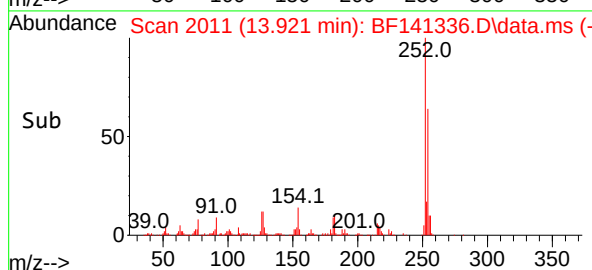
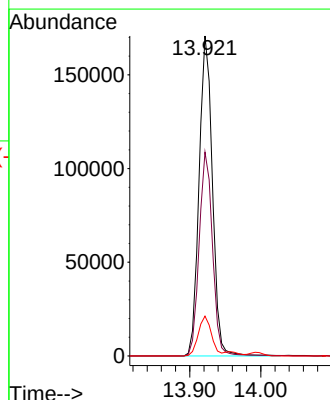
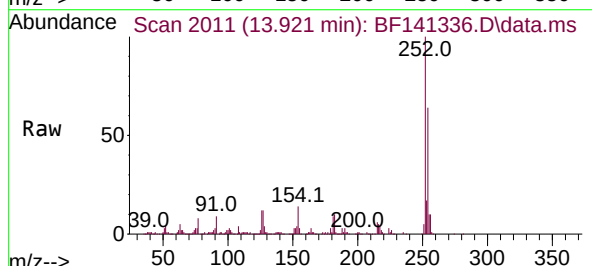
Tgt Ion:252 Resp: 223750

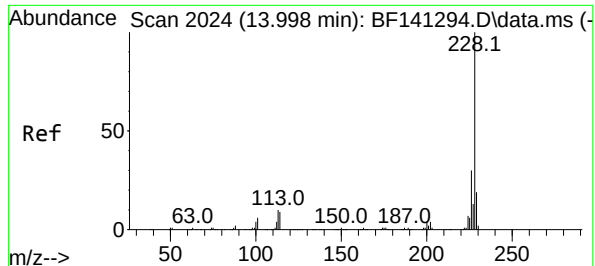
Ion Ratio Lower Upper

252 100

254 63.7 51.3 76.9

126 12.5 10.0 15.0





#83

Chrysene

Concen: 37.287 ng

RT: 13.992 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

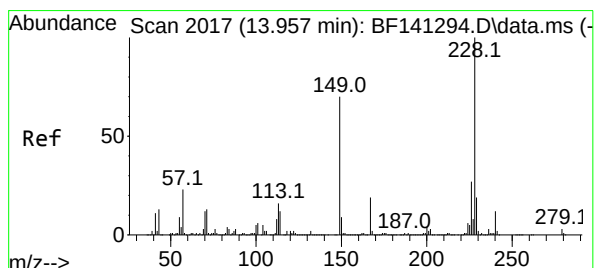
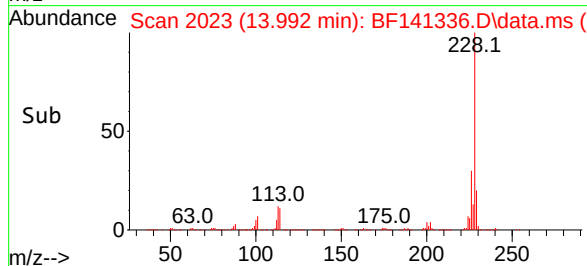
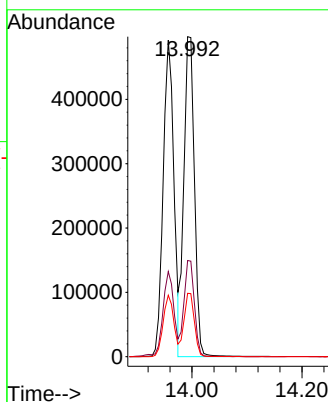
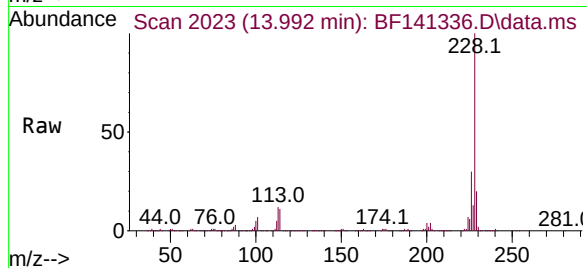
Tgt Ion:228 Resp: 664102

Ion Ratio Lower Upper

228 100

226 30.1 24.1 36.1

229 19.8 15.6 23.4



#84

Bis(2-ethylhexyl)phthalate

Concen: 38.304 ng

RT: 13.951 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

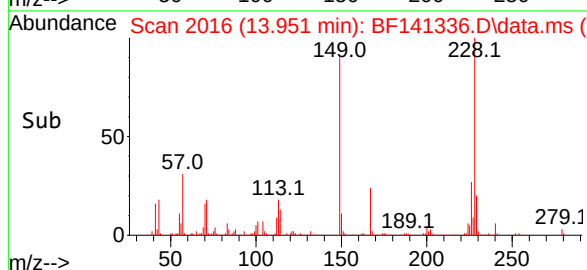
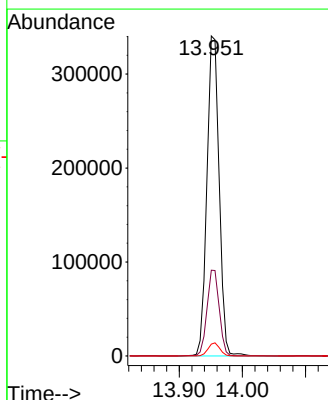
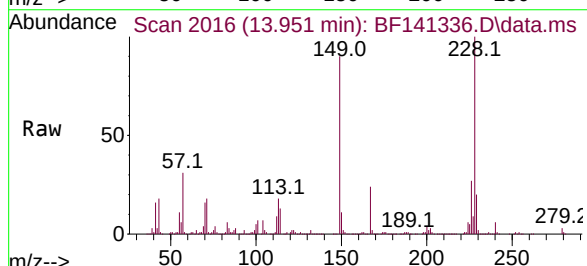
Tgt Ion:149 Resp: 458911

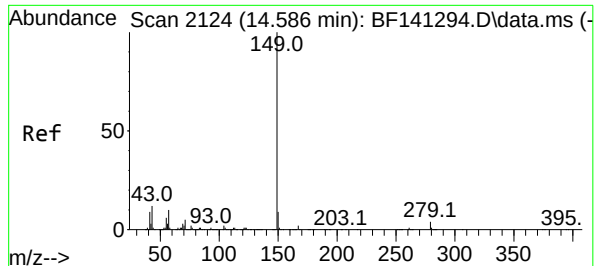
Ion Ratio Lower Upper

149 100

167 26.8 21.8 32.8

279 3.7 3.3 4.9





#85

Di-n-octyl phthalate

Concen: 38.886 ng

RT: 14.580 min Scan# 2124

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

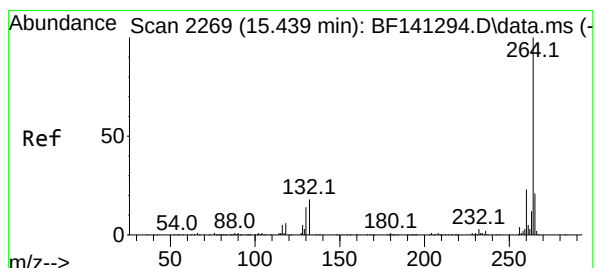
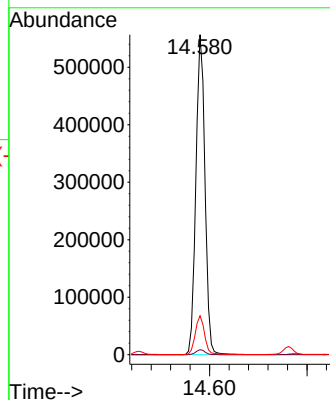
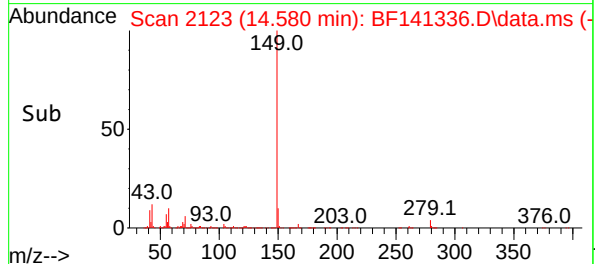
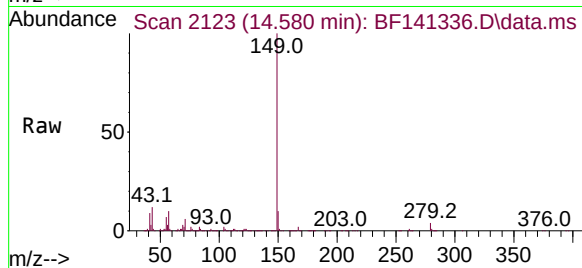
Tgt Ion:149 Resp: 723593

Ion Ratio Lower Upper

149 100

167 1.6 1.3 1.9

43 12.4 9.8 14.8



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.433 min Scan# 2268

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

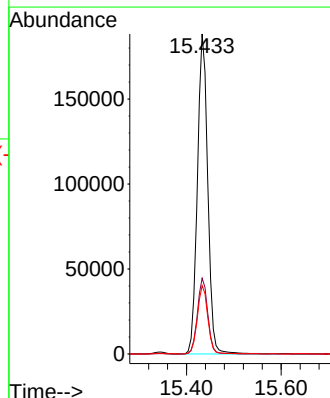
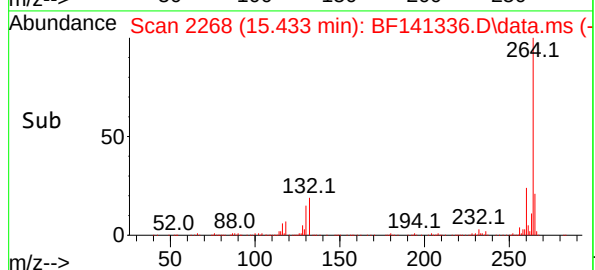
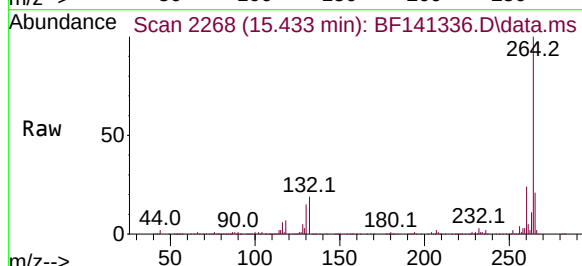
Tgt Ion:264 Resp: 286623

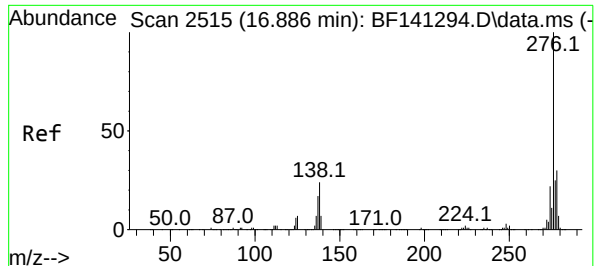
Ion Ratio Lower Upper

264 100

260 23.6 18.6 27.8

265 21.4 16.7 25.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 38.376 ng

RT: 16.886 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

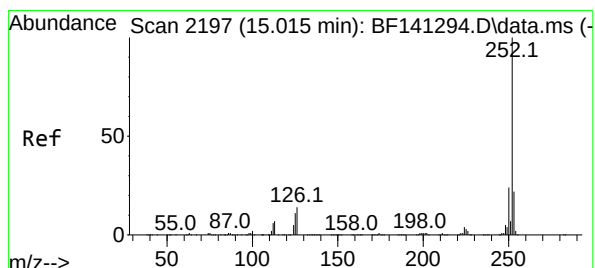
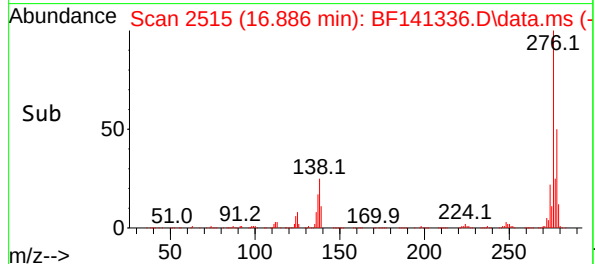
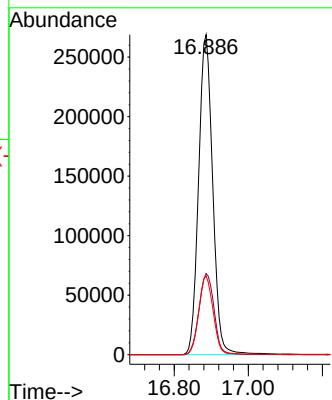
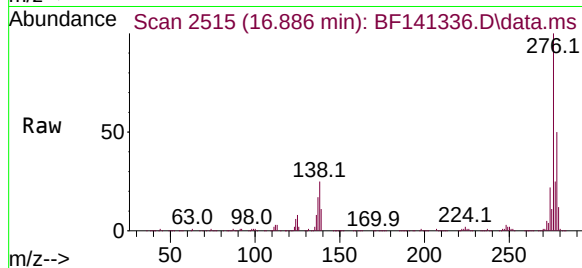
Tgt Ion:276 Resp: 709942

Ion Ratio Lower Upper

276 100

138 27.3 21.7 32.5

277 25.2 20.3 30.5



#88

Benzo(b)fluoranthene

Concen: 37.149 ng

RT: 15.015 min Scan# 2197

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

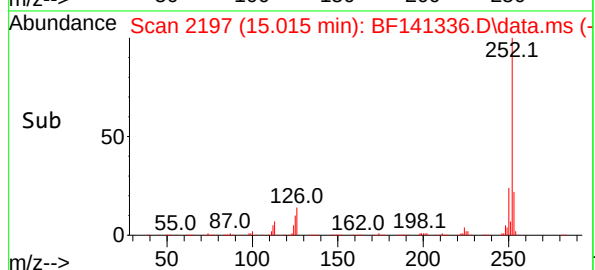
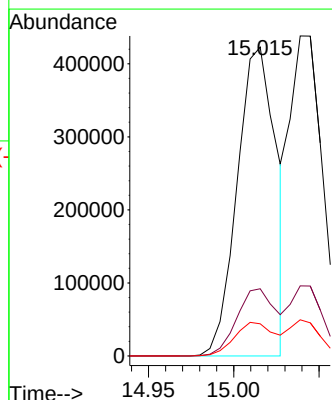
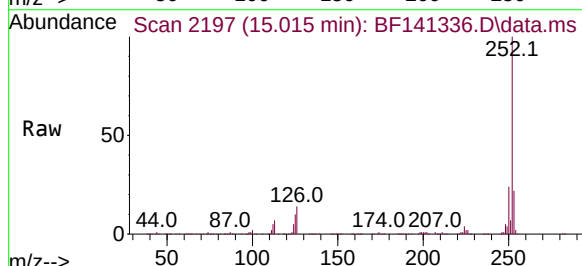
Tgt Ion:252 Resp: 669775

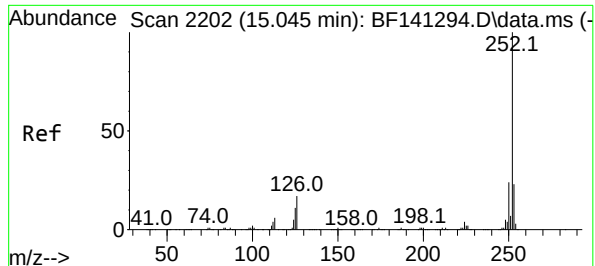
Ion Ratio Lower Upper

252 100

253 21.8 17.4 26.2

125 10.4 8.6 12.8





#89

Benzo(k)fluoranthene

Concen: 37.413 ng

RT: 15.039 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

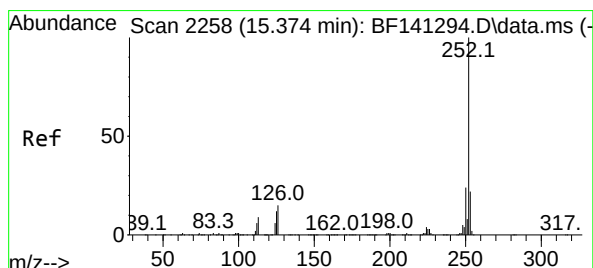
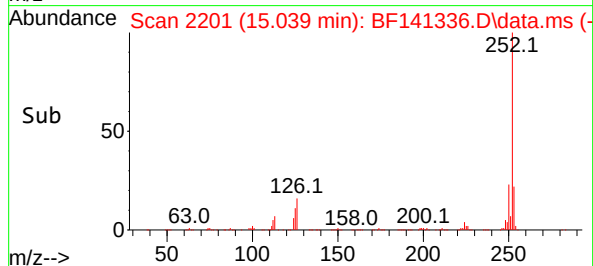
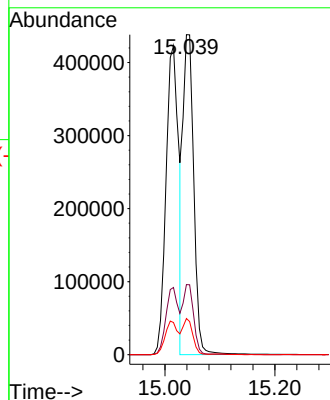
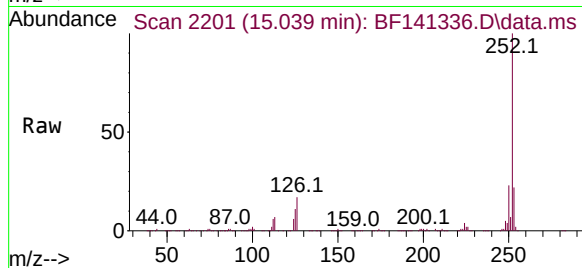
Tgt Ion:252 Resp: 597549

Ion Ratio Lower Upper

252 100

253 21.9 17.6 26.4

125 11.3 8.4 12.6



#90

Benzo(a)pyrene

Concen: 37.294 ng

RT: 15.374 min Scan# 2258

Delta R.T. -0.006 min

Lab File: BF141336.D

Acq: 31 Jan 2025 17:19

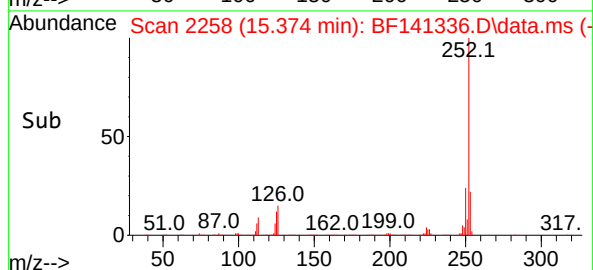
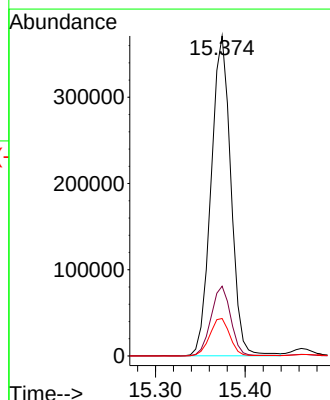
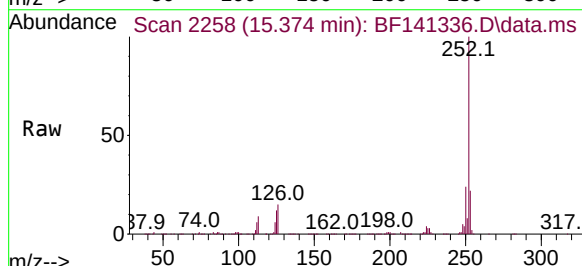
Tgt Ion:252 Resp: 568194

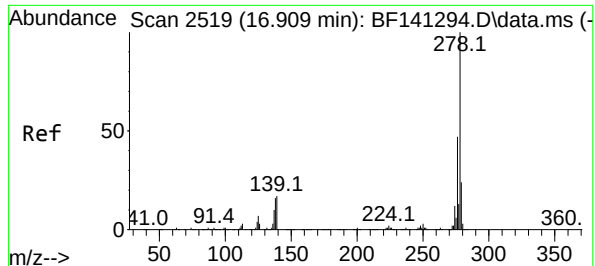
Ion Ratio Lower Upper

252 100

253 21.8 17.2 25.8

125 11.7 9.4 14.2

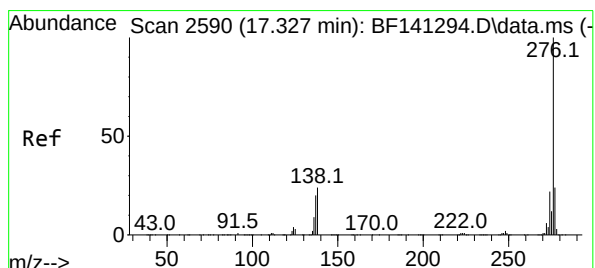
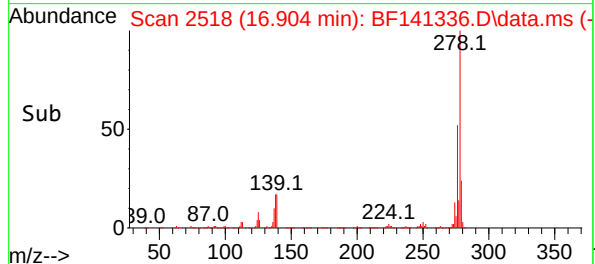
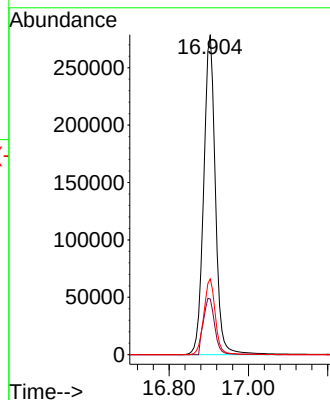
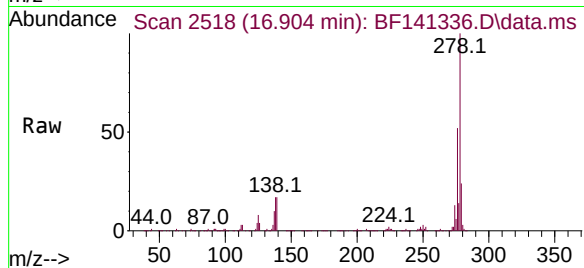




#91
Dibenzo(a,h)anthracene
Concen: 38.458 ng
RT: 16.904 min Scan# 2519
Delta R.T. -0.018 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

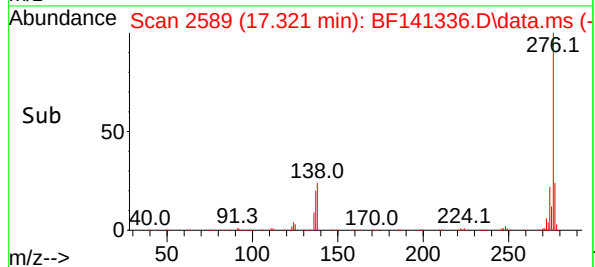
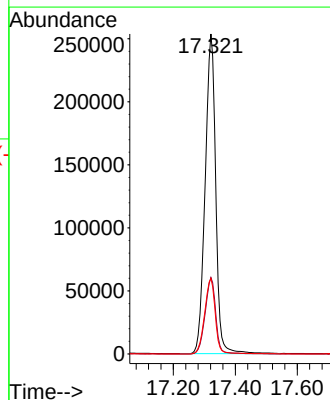
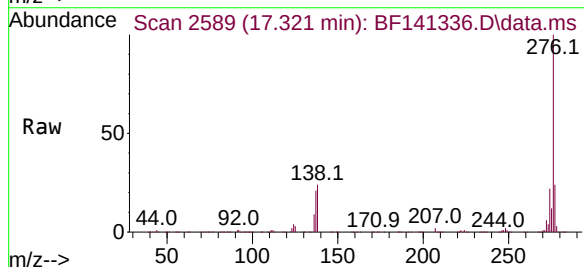
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion	Ratio	Lower	Upper
278	100		
139	17.4	13.9	20.9
279	23.7	18.8	28.2



#92
Benzo(g,h,i)perylene
Concen: 38.883 ng
RT: 17.321 min Scan# 2589
Delta R.T. -0.024 min
Lab File: BF141336.D
Acq: 31 Jan 2025 17:19

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.9	19.2	28.8
138	23.6	19.0	28.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	103	0.00
2	1,4-Dioxane	0.573	0.545	4.9	104	0.00
3	Pyridine	1.380	1.326	3.9	103	-0.02
4	n-Nitrosodimethylamine	0.789	0.750	4.9	102	-0.04
5 S	2-Fluorophenol	1.303	1.218	6.5	104	-0.01
6	Aniline	1.403	1.344	4.2	101	-0.01
7 S	Phenol-d6	1.657	1.534	7.4	104	-0.01
8	2-Chlorophenol	1.396	1.307	6.4	103	-0.01
9	Benzaldehyde	0.960	0.972	-1.3	111	0.00
10 C	Phenol	1.757	1.652	6.0	103	-0.01
11	bis(2-Chloroethyl)ether	1.347	1.267	5.9	106	-0.01
12	1,3-Dichlorobenzene	1.540	1.440	6.5	103	0.00
13 C	1,4-Dichlorobenzene	1.547	1.436	7.2	103	0.00
14	1,2-Dichlorobenzene	1.448	1.350	6.8	103	0.00
15	Benzyl Alcohol	1.133	1.101	2.8	104	0.00
16	2,2'-oxybis(1-Chloropropane	2.342	2.199	6.1	103	0.00
17	2-Methylphenol	1.135	1.062	6.4	105	0.00
18	Hexachloroethane	0.571	0.536	6.1	104	0.00
19 P	n-Nitroso-di-n-propylamine	0.985	0.946	4.0	108	-0.01
20	3+4-Methylphenols	1.393	1.318	5.4	105	-0.01
21 I	Naphthalene-d8	1.000	1.000	0.0	105	0.00
22	Acetophenone	0.475	0.424	10.7	102	0.00
23 S	Nitrobenzene-d5	0.379	0.348	8.2	103	0.00
24	Nitrobenzene	0.393	0.365	7.1	103	-0.01
25	Isophorone	0.656	0.622	5.2	107	0.00
26 C	2-Nitrophenol	0.185	0.175	5.4	104	0.00
27	2,4-Dimethylphenol	0.236	0.224	5.1	105	0.00
28	bis(2-Chloroethoxy)methane	0.418	0.386	7.7	104	0.00
29 C	2,4-Dichlorophenol	0.289	0.272	5.9	105	0.00
30	1,2,4-Trichlorobenzene	0.330	0.299	9.4	103	0.00
31	Naphthalene	1.057	0.966	8.6	104	0.00
32	Benzoic acid	0.217	0.226	-4.1	107	-0.04
33	4-Chloroaniline	0.358	0.329	8.1	102	0.00
34 C	Hexachlorobutadiene	0.194	0.179	7.7	105	0.00
35	Caprolactam	0.094	0.091	3.2	108	-0.02
36 C	4-Chloro-3-methylphenol	0.310	0.341	-10.0	124	0.00
37	2-Methylnaphthalene	0.672	0.618	8.0	104	0.00
38	1-Methylnaphthalene	0.660	0.605	8.3	105	0.00
39 I	Acenaphthene-d10	1.000	1.000	0.0	106	0.00
40	1,2,4,5-Tetrachlorobenzene	0.569	0.515	9.5	102	0.00
41 P	Hexachlorocyclopentadiene	0.168	0.159	5.4	98	0.00
42 S	2,4,6-Tribromophenol	0.183	0.177	3.3	108	0.00
43 C	2,4,6-Trichlorophenol	0.372	0.365	1.9	106	0.00
44	2,4,5-Trichlorophenol	0.405	0.381	5.9	107	0.00
45 S	2-Fluorobiphenyl	1.299	1.148	11.6	103	0.00
46	1,1'-Biphenyl	1.560	1.427	8.5	104	0.00
47	2-Chloronaphthalene	1.216	1.102	9.4	104	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
 Data File : BF141336.D
 Acq On : 31 Jan 2025 17:19
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 29 17:41:25 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	0.382	0.366	4.2	107	0.00
49	Acenaphthylene	1.702	1.577	7.3	105	0.00
50	Dimethylphthalate	1.351	1.290	4.5	110	0.00
51	2,6-Dinitrotoluene	0.314	0.300	4.5	107	0.00
52 C	Acenaphthene	1.216	1.127	7.3	106	0.00
53	3-Nitroaniline	0.307	0.292	4.9	102	0.00
54 P	2,4-Dinitrophenol	0.146	0.150	-2.7	108	0.00
55	Dibenzofuran	1.627	1.481	9.0	103	0.00
56 P	4-Nitrophenol	0.225	0.300	-33.3#	142	0.00
57	2,4-Dinitrotoluene	0.406	0.427	-5.2	117	0.00
58	Fluorene	1.262	1.151	8.8	104	0.00
59	2,3,4,6-Tetrachlorophenol	0.319	0.310	2.8	108	0.00
60	Diethylphthalate	1.310	1.249	4.7	108	0.00
61	4-Chlorophenyl-phenylether	0.617	0.562	8.9	105	0.00
62	4-Nitroaniline	0.302	0.288	4.6	105	-0.01
63	Azobenzene	1.311	1.231	6.1	107	0.00
64 I	Phenanthrene-d10	1.000	1.000	0.0	108	0.00
65	4,6-Dinitro-2-methylphenol	0.118	0.131	-11.0	113	0.00
66 c	n-Nitrosodiphenylamine	0.647	0.627	3.1	108	0.00
67	4-Bromophenyl-phenylether	0.224	0.220	1.8	109	0.00
68	Hexachlorobenzene	0.238	0.232	2.5	109	0.00
69	Atrazine	0.216	0.184	14.8	93	0.00
70 C	Pentachlorophenol	0.139	0.186	-33.8#	140	0.00
71	Phenanthrene	1.075	1.016	5.5	107	0.00
72	Anthracene	1.053	0.999	5.1	107	0.00
73	Carbazole	0.934	0.892	4.5	107	0.00
74	Di-n-butylphthalate	1.132	1.116	1.4	111	0.00
75 C	Fluoranthene	1.062	1.011	4.8	108	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	108	0.00
77	Benzidine	0.641	0.620	3.3	92	0.00
78	Pyrene	1.920	1.949	-1.5	120	0.00
79 S	Terphenyl-d14	1.297	1.177	9.3	108	0.00
80	Butylbenzylphthalate	0.671	0.656	2.2	113	0.00
81	Benzo(a)anthracene	1.380	1.181	14.4	100	0.00
82	3,3'-Dichlorobenzidine	0.439	0.397	9.6	103	0.00
83	Chrysene	1.265	1.179	6.8	112	0.00
84	Bis(2-ethylhexyl)phthalate	0.851	0.815	4.2	112	0.00
85 c	Di-n-octyl phthalate	1.321	1.285	2.7	113	0.00
86 I	Perylene-d12	1.000	1.000	0.0	103	0.00
87	Indeno(1,2,3-cd)pyrene	1.291	1.238	4.1	101	-0.01
88	Benzo(b)fluoranthene	1.258	1.168	7.2	107	0.00
89	Benzo(k)fluoranthene	1.114	1.042	6.5	99	-0.01
90 C	Benzo(a)pyrene	1.063	0.991	6.8	101	0.00
91	Dibenzo(a,h)anthracene	1.039	0.999	3.8	101	-0.02
92	Benzo(g,h,i)perylene	1.080	1.050	2.8	103	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 1

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	103	0.00
2	1,4-Dioxane	40.000	38.066	4.8	104	0.00
3	Pyridine	40.000	38.429	3.9	103	-0.02
4	n-Nitrosodimethylamine	40.000	38.050	4.9	102	-0.04
5 S	2-Fluorophenol	80.000	74.803	6.5	104	-0.01
6	Aniline	40.000	38.328	4.2	101	-0.01
7 S	Phenol-d6	80.000	74.066	7.4	104	-0.01
8	2-Chlorophenol	40.000	37.432	6.4	103	-0.01
9	Benzaldehyde	40.000	40.484	-1.2	111	0.00
10 C	Phenol	40.000	37.622	5.9	103	-0.01
11	bis(2-Chloroethyl)ether	40.000	37.636	5.9	106	-0.01
12	1,3-Dichlorobenzene	40.000	37.423	6.4	103	0.00
13 C	1,4-Dichlorobenzene	40.000	37.151	7.1	103	0.00
14	1,2-Dichlorobenzene	40.000	37.272	6.8	103	0.00
15	Benzyl Alcohol	40.000	38.880	2.8	104	0.00
16	2,2'-oxybis(1-Chloropropane	40.000	37.552	6.1	103	0.00
17	2-Methylphenol	40.000	37.434	6.4	105	0.00
18	Hexachloroethane	40.000	37.585	6.0	104	0.00
19 P	n-Nitroso-di-n-propylamine	40.000	38.424	3.9	108	-0.01
20	3+4-Methylphenols	40.000	37.845	5.4	105	-0.01
21 I	Naphthalene-d8	20.000	20.000	0.0	105	0.00
22	Acetophenone	40.000	35.678	10.8	102	0.00
23 S	Nitrobenzene-d5	80.000	73.308	8.4	103	0.00
24	Nitrobenzene	40.000	37.116	7.2	103	-0.01
25	Isophorone	40.000	37.934	5.2	107	0.00
26 C	2-Nitrophenol	40.000	37.762	5.6	104	0.00
27	2,4-Dimethylphenol	40.000	37.999	5.0	105	0.00
28	bis(2-Chloroethoxy)methane	40.000	36.955	7.6	104	0.00
29 C	2,4-Dichlorophenol	40.000	37.608	6.0	105	0.00
30	1,2,4-Trichlorobenzene	40.000	36.214	9.5	103	0.00
31	Naphthalene	40.000	36.561	8.6	104	0.00
32	Benzoic acid	40.000	41.698	-4.2	107	-0.04
33	4-Chloroaniline	40.000	36.719	8.2	102	0.00
34 C	Hexachlorobutadiene	40.000	37.021	7.4	105	0.00
35	Caprolactam	40.000	38.705	3.2	108	-0.02
36 C	4-Chloro-3-methylphenol	40.000	43.991	-10.0	124	0.00
37	2-Methylnaphthalene	40.000	36.818	8.0	104	0.00
38	1-Methylnaphthalene	40.000	36.681	8.3	105	0.00
39 I	Acenaphthene-d10	20.000	20.000	0.0	106	0.00
40	1,2,4,5-Tetrachlorobenzene	40.000	36.224	9.4	102	0.00
41 P	Hexachlorocyclopentadiene	40.000	37.949	5.1	98	0.00
42 S	2,4,6-Tribromophenol	80.000	77.122	3.6	108	0.00
43 C	2,4,6-Trichlorophenol	40.000	39.199	2.0	106	0.00
44	2,4,5-Trichlorophenol	40.000	37.608	6.0	107	0.00
45 S	2-Fluorobiphenyl	80.000	70.690	11.6	103	0.00
46	1,1'-Biphenyl	40.000	36.585	8.5	104	0.00
47	2-Chloronaphthalene	40.000	36.251	9.4	104	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

	Compound	Amount	Calc.	%Dev	Area%	Dev(min)
48	2-Nitroaniline	40.000	38.330	4.2	107	0.00
49	Acenaphthylene	40.000	37.073	7.3	105	0.00
50	Dimethylphthalate	40.000	38.200	4.5	110	0.00
51	2,6-Dinitrotoluene	40.000	38.268	4.3	107	0.00
52 C	Acenaphthene	40.000	37.066	7.3	106	0.00
53	3-Nitroaniline	40.000	37.936	5.2	102	0.00
54 P	2,4-Dinitrophenol	40.000	41.270	-3.2	108	0.00
55	Dibenzofuran	40.000	36.395	9.0	103	0.00
56 P	4-Nitrophenol	40.000	53.378	-33.4#	142	0.00
57	2,4-Dinitrotoluene	40.000	42.014	-5.0	117	0.00
58	Fluorene	40.000	36.485	8.8	104	0.00
59	2,3,4,6-Tetrachlorophenol	40.000	38.903	2.7	108	0.00
60	Diethylphthalate	40.000	38.140	4.6	108	0.00
61	4-Chlorophenyl-phenylether	40.000	36.458	8.9	105	0.00
62	4-Nitroaniline	40.000	38.063	4.8	105	-0.01
63	Azobenzene	40.000	37.573	6.1	107	0.00
64 I	Phenanthrene-d10	20.000	20.000	0.0	108	0.00
65	4,6-Dinitro-2-methylphenol	40.000	44.270	-10.7	113	0.00
66 c	n-Nitrosodiphenylamine	40.000	38.751	3.1	108	0.00
67	4-Bromophenyl-phenylether	40.000	39.236	1.9	109	0.00
68	Hexachlorobenzene	40.000	38.991	2.5	109	0.00
69	Atrazine	40.000	33.985	15.0	93	0.00
70 C	Pentachlorophenol	40.000	53.575	-33.9#	140	0.00
71	Phenanthrene	40.000	37.819	5.5	107	0.00
72	Anthracene	40.000	37.948	5.1	107	0.00
73	Carbazole	40.000	38.220	4.5	107	0.00
74	Di-n-butylphthalate	40.000	39.444	1.4	111	0.00
75 C	Fluoranthene	40.000	38.098	4.8	108	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	108	0.00
77	Benzydine	40.000	38.664	3.3	92	0.00
78	Pyrene	40.000	40.606	-1.5	120	0.00
79 S	Terphenyl-d14	80.000	72.583	9.3	108	0.00
80	Butylbenzylphthalate	40.000	39.103	2.2	113	0.00
81	Benzo(a)anthracene	40.000	34.223	14.4	100	0.00
82	3,3'-Dichlorobenzidine	40.000	36.200	9.5	103	0.00
83	Chrysene	40.000	37.287	6.8	112	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	38.304	4.2	112	0.00
85 c	Di-n-octyl phthalate	40.000	38.886	2.8	113	0.00
86 I	Perylene-d12	20.000	20.000	0.0	103	0.00
87	Indeno(1,2,3-cd)pyrene	40.000	38.376	4.1	101	-0.01
88	Benzo(b)fluoranthene	40.000	37.149	7.1	107	0.00
89	Benzo(k)fluoranthene	40.000	37.413	6.5	99	-0.01
90 C	Benzo(a)pyrene	40.000	37.294	6.8	101	0.00
91	Dibenzo(a,h)anthracene	40.000	38.458	3.9	101	-0.02
92	Benzo(g,h,i)perylene	40.000	38.883	2.8	103	-0.02

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141336.D
Acq On : 31 Jan 2025 17:19
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Jan 31 17:43:26 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	Amount	Calc.	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 1



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG No.: Q1207

Instrument ID: BNA_F Calibration Date/Time: 02/05/2025 10:02

Lab File ID: BF141435.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 17:05

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.380	1.235		-10.5	
2-Fluorophenol	1.303	1.295		-0.6	
Phenol-d6	1.657	1.600		-3.4	
1,4-Dichlorobenzene	1.547	1.578		2.0	20.0
2-Methylphenol	1.135	1.083		-4.6	
3+4-Methylphenols	1.393	1.395		0.1	
Nitrobenzene-d5	0.379	0.397		4.5	
Hexachloroethane	0.571	0.582		1.9	
Nitrobenzene	0.393	0.403		2.5	
Hexachlorobutadiene	0.194	0.212		9.3	20.0
2,4,6-Trichlorophenol	0.372	0.385		3.5	20.0
2-Fluorobiphenyl	1.299	1.338		3.0	
2,4,5-Trichlorophenol	0.405	0.418		3.2	
2,4-Dinitrotoluene	0.406	0.428		5.4	
2,4,6-Tribromophenol	0.183	0.197		7.7	
Hexachlorobenzene	0.238	0.246		3.4	
Pentachlorophenol	0.139	0.151		8.6	20.0
Terphenyl-d14	1.297	1.290		-0.5	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
 Data File : BF141435.D
 Acq On : 05 Feb 2025 10:02
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025

Quant Time: Feb 05 10:46:53 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 17:41:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	78610	20.000	ng	-0.01
21) Naphthalene-d8	8.075	136	301871	20.000	ng	#-0.01
39) Acenaphthene-d10	9.828	164	162758	20.000	ng	-0.01
64) Phenanthrene-d10	11.316	188	271503	20.000	ng	-0.01
76) Chrysene-d12	13.963	240	168458	20.000	ng	#-0.01
86) Perylene-d12	15.427	264	170248	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	407329	79.549	ng	0.00
7) Phenol-d6	6.434	99	503234	77.255	ng	0.00
23) Nitrobenzene-d5	7.357	82	478767	83.608	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	127994	85.780	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	870937	82.364	ng	-0.01
79) Terphenyl-d14	12.904	244	869288	79.581	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.457	88	78559	34.885	ng	94
3) Pyridine	3.187	79	194117	35.776	ng	95
4) n-Nitrosodimethylamine	3.140	42	135212m	43.622	ng	
6) Aniline	6.451	93	203874	36.974	ng	# 15
8) 2-Chlorophenol	6.581	128	217362	39.605	ng	98
9) Benzaldehyde	6.340	77	155340	41.171	ng	99
10) Phenol	6.445	94	261387	37.854	ng	# 70
11) bis(2-Chloroethyl)ether	6.528	93	198646	37.520	ng	99
12) 1,3-Dichlorobenzene	6.734	146	244041	40.328	ng	100
13) 1,4-Dichlorobenzene	6.810	146	248088	40.809	ng	100
14) 1,2-Dichlorobenzene	6.963	146	230694	40.526	ng	98
15) Benzyl Alcohol	6.934	79	188189	42.275	ng	96
16) 2,2'-oxybis(1-Chloropr...	7.069	45	320404	34.802	ng	83
17) 2-Methylphenol	7.051	107	170207	38.159	ng	93
18) Hexachloroethane	7.304	117	91496	40.798	ng	97
19) n-Nitroso-di-n-propyla...	7.204	70	149493	38.623	ng	100
20) 3+4-Methylphenols	7.210	107	219253	40.033	ng	94
22) Acetophenone	7.204	105	297343	41.439	ng	97
24) Nitrobenzene	7.375	77	243522	41.037	ng	98
25) Isophorone	7.616	82	381288	38.520	ng	99
26) 2-Nitrophenol	7.692	139	115128	41.137	ng	95
27) 2,4-Dimethylphenol	7.734	122	138196m	38.795	ng	
28) bis(2-Chloroethoxy)met...	7.828	93	236983	37.533	ng	99
29) 2,4-Dichlorophenol	7.939	162	179202	41.092	ng	100
30) 1,2,4-Trichlorobenzene	8.016	180	204292	41.020	ng	100
31) Naphthalene	8.098	128	638897	40.064	ng	99
32) Benzoic acid	7.851	122	131516	40.161	ng	94
33) 4-Chloroaniline	8.145	127	202319	37.413	ng	98
34) Hexachlorobutadiene	8.216	225	128024	43.834	ng	99
35) Caprolactam	8.516	113	55628	39.058	ng	97
36) 4-Chloro-3-methylphenol	8.634	107	195300	41.751	ng	94
37) 2-Methylnaphthalene	8.786	142	404544	39.913	ng	100
38) 1-Methylnaphthalene	8.886	142	396613	39.835	ng	99
40) 1,2,4,5-Tetrachloroben...	8.951	216	188623	40.737	ng	99
41) Hexachlorocyclopentadiene	8.939	237	53928	39.437	ng	98
43) 2,4,6-Trichlorophenol	9.069	196	125213	41.315	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
 Data File : BF141435.D
 Acq On : 05 Feb 2025 10:02
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :mohammad ahmed 02/06/2025

Quant Time: Feb 05 10:46:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 29 17:41:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	136179	41.284	ng	99
46) 1,1'-Biphenyl	9.251	154	500011	39.392	ng	97
47) 2-Chloronaphthalene	9.275	162	397635	40.191	ng	100
48) 2-Nitroaniline	9.375	65	128787	41.385	ng	97
49) Acenaphthylene	9.692	152	552204	39.872	ng	100
50) Dimethylphthalate	9.557	163	437816	39.828	ng	100
51) 2,6-Dinitrotoluene	9.616	165	103868	40.695	ng	95
52) Acenaphthene	9.863	154	400902	40.520	ng	98
53) 3-Nitroaniline	9.786	138	100475	40.165	ng	97
54) 2,4-Dinitrophenol	9.892	184	52193	43.990	ng #	85
55) Dibenzofuran	10.033	168	529389	39.973	ng	96
56) 4-Nitrophenol	9.963	139	76553	41.844	ng	90
57) 2,4-Dinitrotoluene	10.022	165	139267	42.144	ng	96
58) Fluorene	10.380	166	427075	41.573	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.157	232	109126	42.052	ng	97
60) Diethylphthalate	10.251	149	431776	40.510	ng	99
61) 4-Chlorophenyl-phenyle...	10.375	204	209555	41.761	ng	99
62) 4-Nitroaniline	10.398	138	102198	41.554	ng	89
63) Azobenzene	10.533	77	406009	38.055	ng	97
65) 4,6-Dinitro-2-methylph...	10.433	198	73514	45.776	ng	99
66) n-Nitrosodiphenylamine	10.492	169	356533	40.601	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	125379	41.249	ng	98
68) Hexachlorobenzene	10.928	284	133335	41.354	ng	98
69) Atrazine	11.022	200	108751	37.040	ng	99
70) Pentachlorophenol	11.127	266	82010	43.436	ng	99
71) Phenanthrene	11.345	178	605311	41.476	ng	99
72) Anthracene	11.392	178	597915	41.812	ng	99
73) Carbazole	11.551	167	545853	43.048	ng	100
74) Di-n-butylphthalate	11.880	149	632426	41.155	ng	100
75) Fluoranthene	12.533	202	626646	43.486	ng	97
77) Benzidine	12.657	184	207554	38.432	ng	98
78) Pyrene	12.763	202	631407	39.047	ng	99
80) Butylbenzylphthalate	13.380	149	224717	39.778	ng	99
81) Benzo(a)anthracene	13.951	228	441320	37.964	ng	100
82) 3,3'-Dichlorobenzidine	13.916	252	141060	38.153	ng	98
83) Chrysene	13.992	228	418577	39.290	ng	100
84) Bis(2-ethylhexyl)phtha...	13.945	149	276519	38.586	ng	98
85) Di-n-octyl phthalate	14.568	149	418773	37.624	ng	99
87) Indeno(1,2,3-cd)pyrene	16.874	276	480324	43.712	ng	95
88) Benzo(b)fluoranthene	15.004	252	451713	42.180	ng	98
89) Benzo(k)fluoranthene	15.033	252	368364	38.829	ng	98
90) Benzo(a)pyrene	15.363	252	375306	41.472	ng	98
91) Dibenzo(a,h)anthracene	16.892	278	385925	43.654	ng	97
92) Benzo(g,h,i)perylene	17.309	276	405442	44.107	ng	95

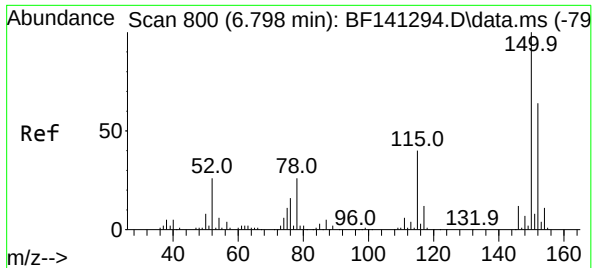
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations APPROVED

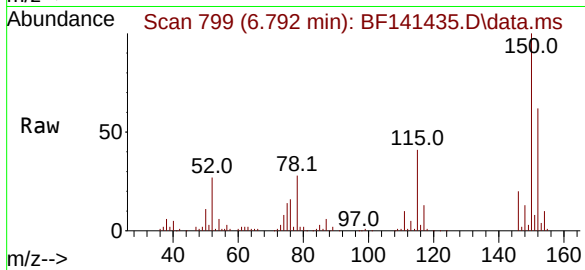
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 79
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

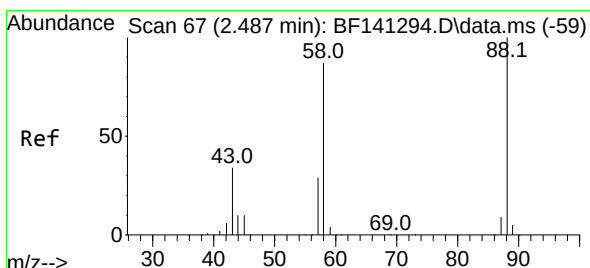
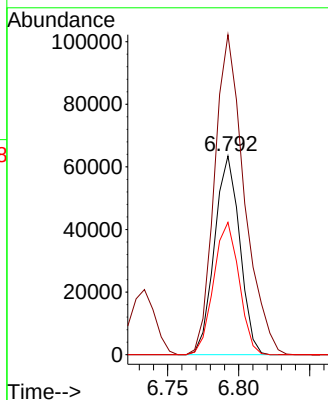
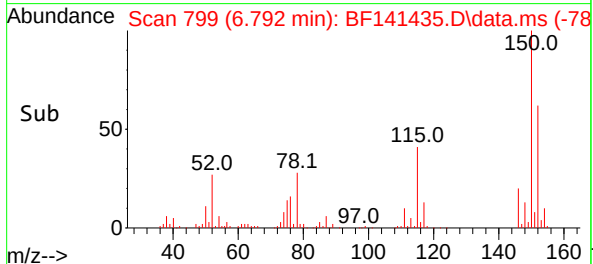
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



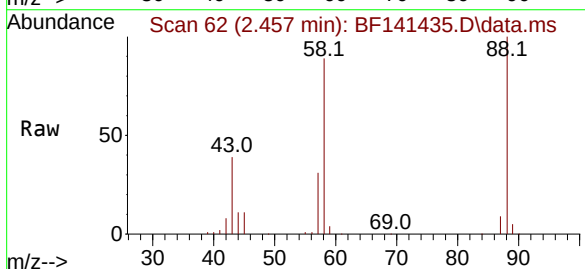
Tgt Ion:152 Resp: 78610
Ion Ratio Lower Upper
152 100
150 161.0 125.9 188.9
115 66.6 49.7 74.5

Manual Integrations
APPROVED

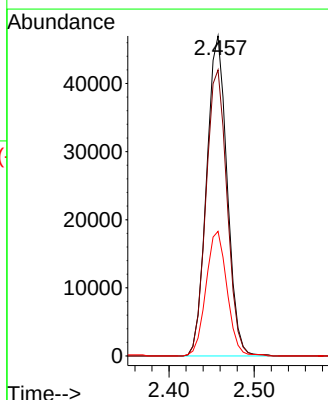
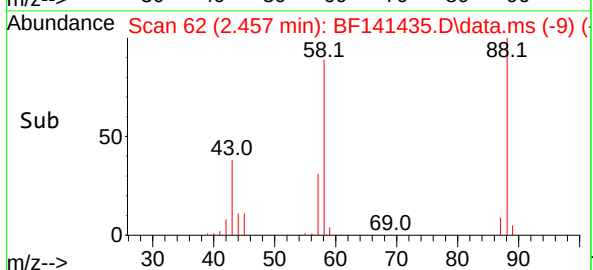
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

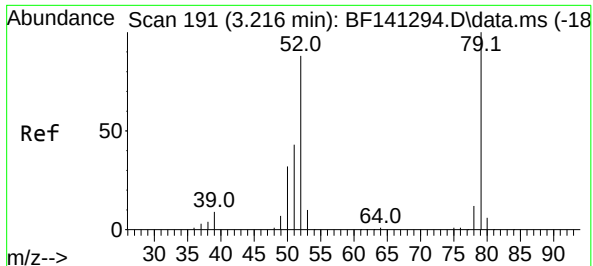


#2
1,4-Dioxane
Concen: 34.885 ng
RT: 2.457 min Scan# 62
Delta R.T. -0.035 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02



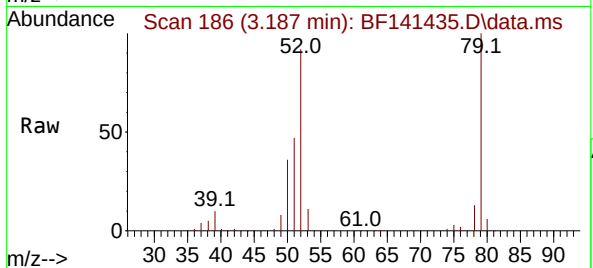
Tgt Ion: 88 Resp: 78559
Ion Ratio Lower Upper
88 100
58 91.6 70.2 105.4
43 40.0 27.6 41.4





#3
Pyridine
Concen: 35.776 ng
RT: 3.187 min Scan# 11
Delta R.T. -0.041 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

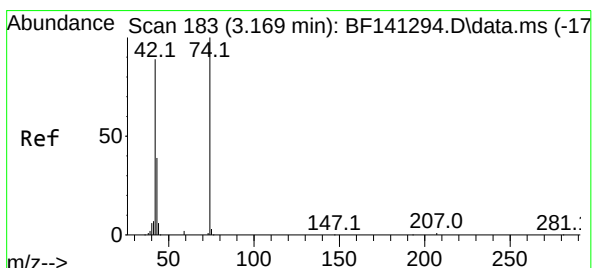
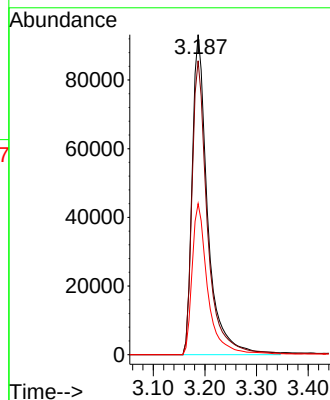
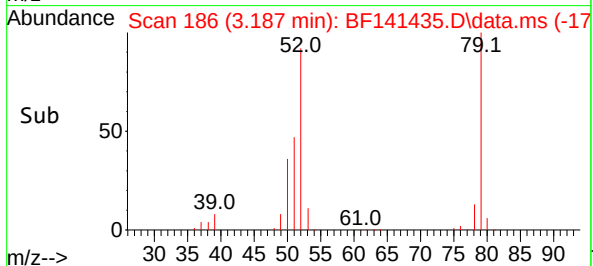
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



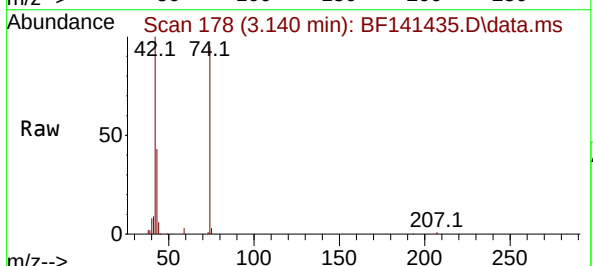
Tgt Ion: 79 Resp: 19411
Ion Ratio Lower Upper
79 100
52 91.9 70.3 105.5
51 47.2 34.3 51.5

Manual Integrations
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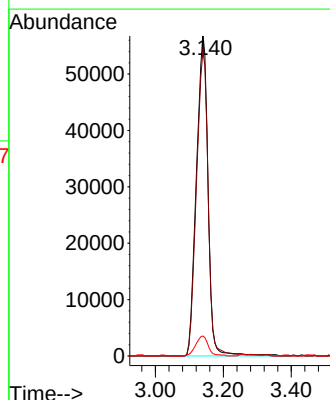
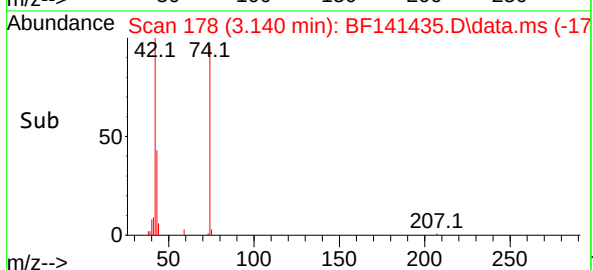
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

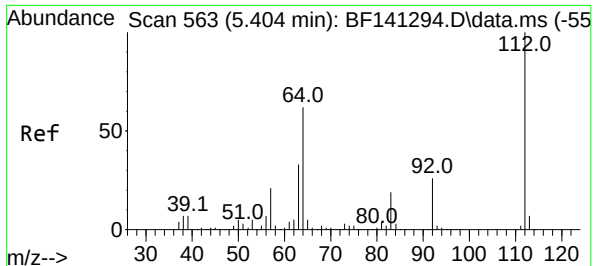


#4
n-Nitrosodimethylamine
Concen: 43.622 ng m
RT: 3.140 min Scan# 178
Delta R.T. -0.059 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02



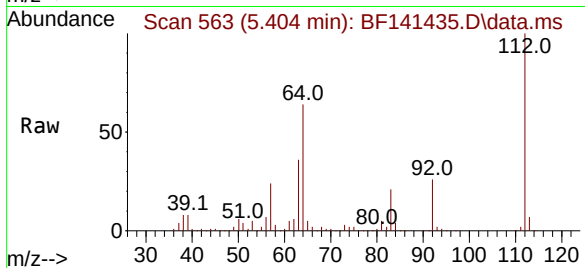
Tgt Ion: 42 Resp: 135212
Ion Ratio Lower Upper
42 100
74 95.2 90.3 135.5
44 6.3 5.7 8.5





#5
2-Fluorophenol
Concen: 79.549 ng
RT: 5.404 min Scan# 50
Delta R.T. -0.006 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

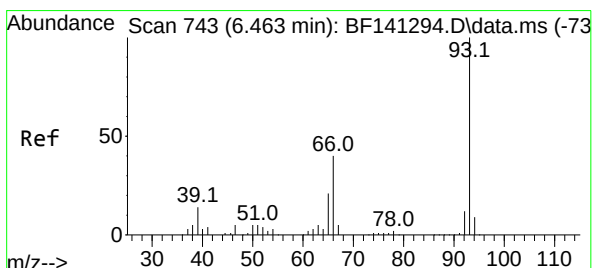
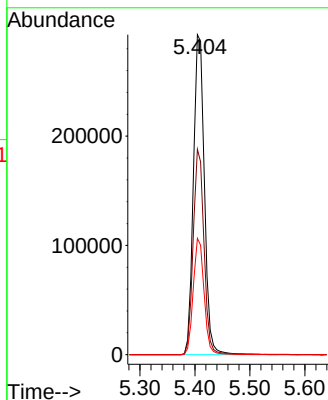
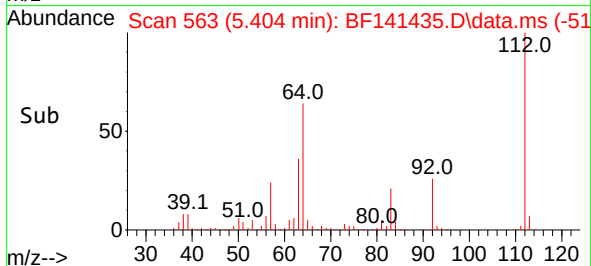
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



Tgt Ion:112 Resp: 407329
Ion Ratio Lower Upper
112 100
64 64.2 49.8 74.8
63 36.3 26.1 39.1

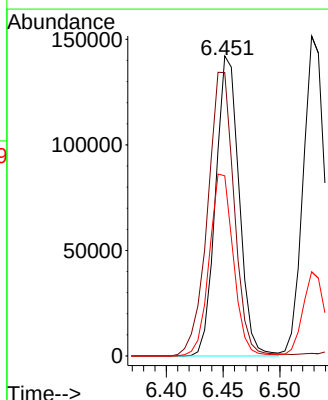
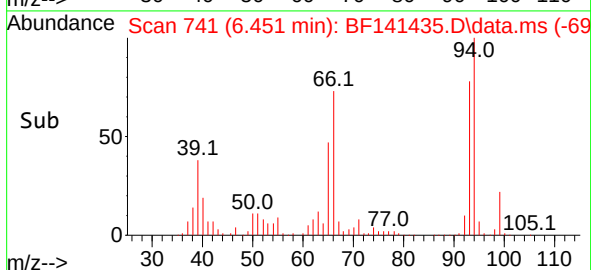
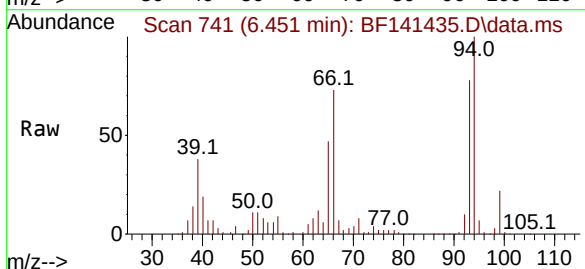
Manual Integrations
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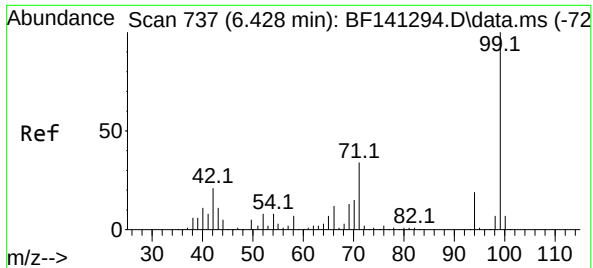
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#6
Aniline
Concen: 36.974 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.018 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Tgt Ion: 93 Resp: 203874
Ion Ratio Lower Upper
93 100
66 94.5 32.5 48.7#
65 60.0 17.0 25.6#





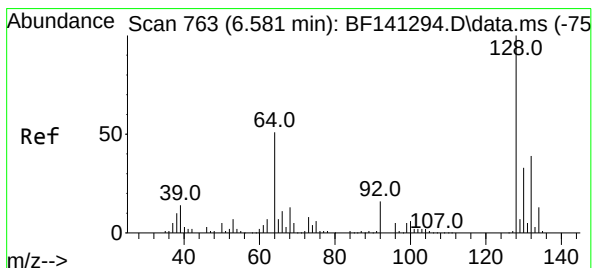
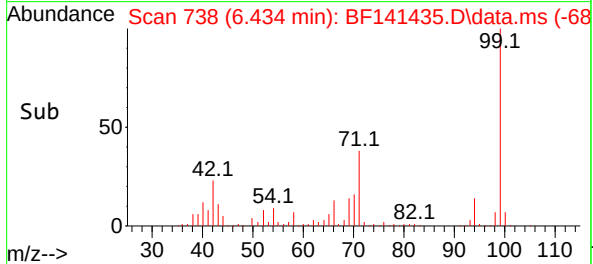
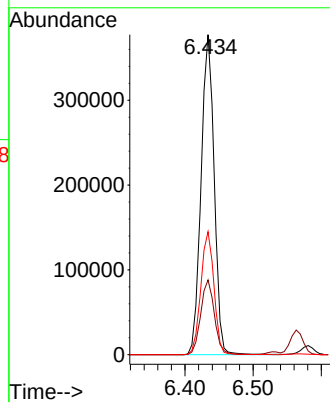
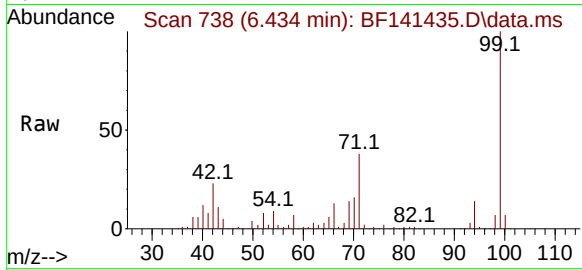
#7
Phenol-d6
Concen: 77.255 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 503234
Ion Ratio Lower Upper
99 100
42 23.3 17.1 25.7
71 38.5 26.9 40.3

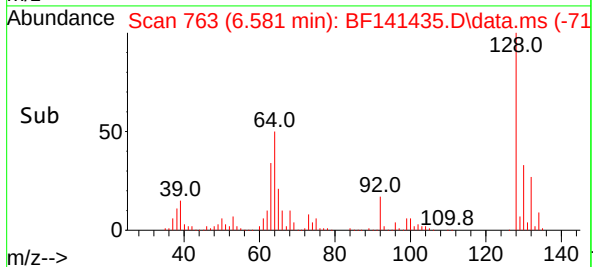
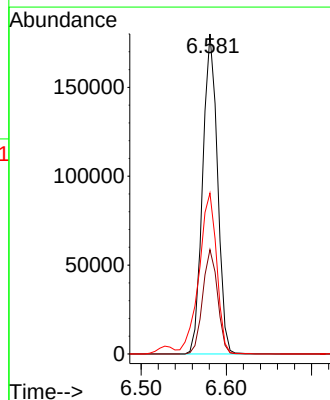
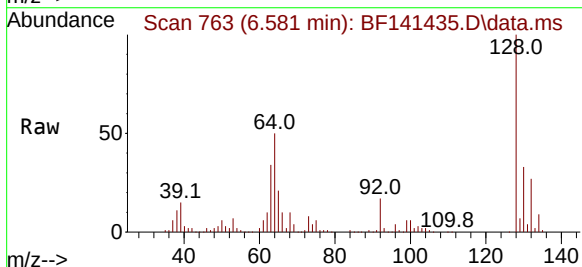
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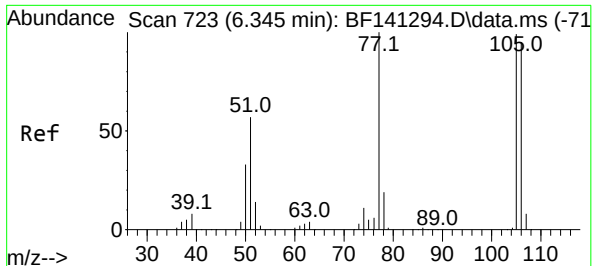
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#8
2-Chlorophenol
Concen: 39.605 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Tgt Ion:128 Resp: 217362
Ion Ratio Lower Upper
128 100
130 32.6 12.5 52.5
64 50.3 32.9 72.9





#9

Benzaldehyde

Concen: 41.171 ng

RT: 6.340 min Scan# 71

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion: 77 Resp: 155340

Ion Ratio Lower Upper

77 100

105 98.6 79.4 119.4

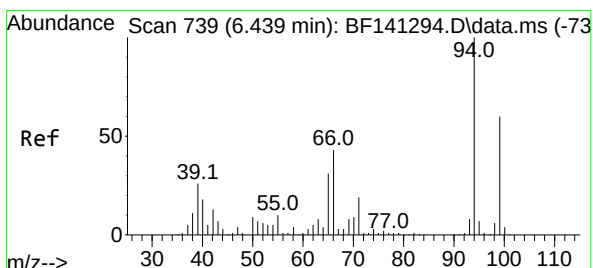
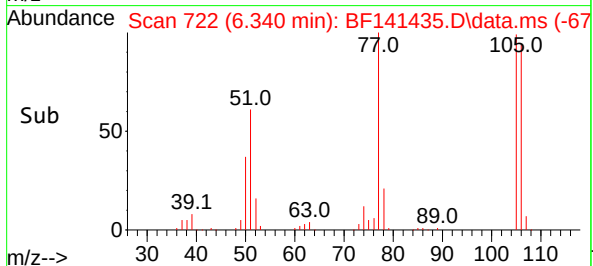
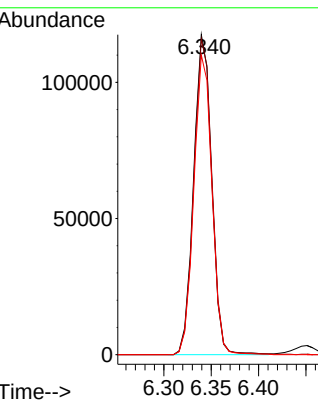
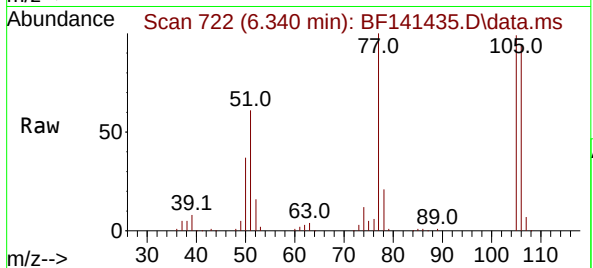
106 93.6 74.6 114.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#10

Phenol

Concen: 37.854 ng

RT: 6.445 min Scan# 740

Delta R.T. -0.006 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

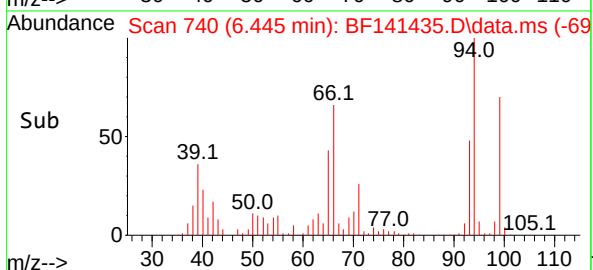
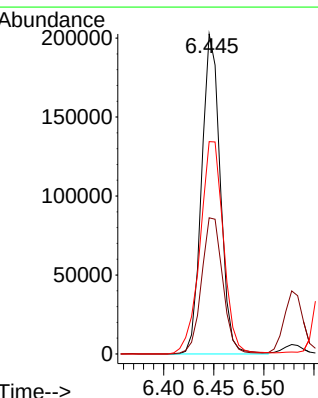
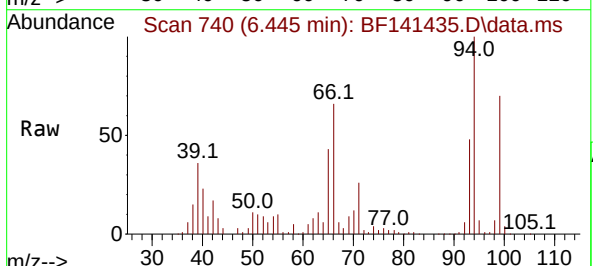
Tgt Ion: 94 Resp: 261387

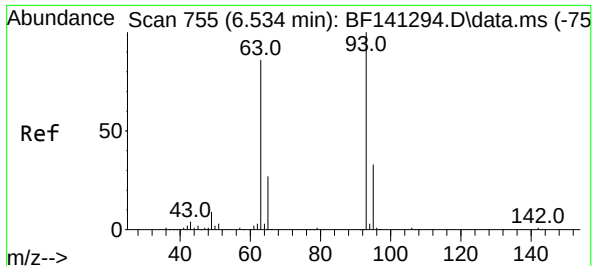
Ion Ratio Lower Upper

94 100

65 42.6 10.8 50.8

66 66.3 23.3 63.3#





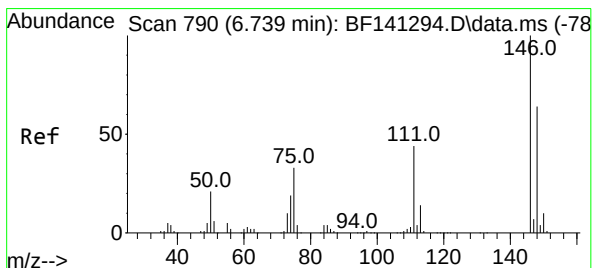
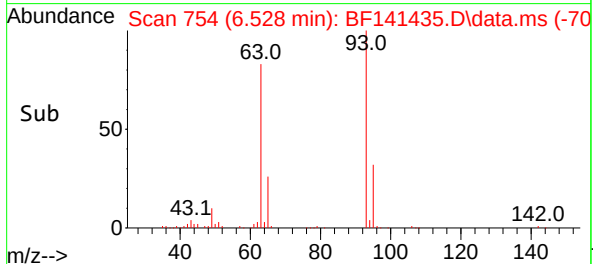
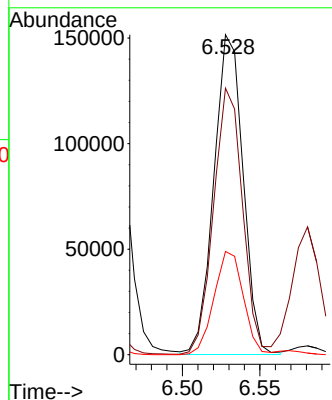
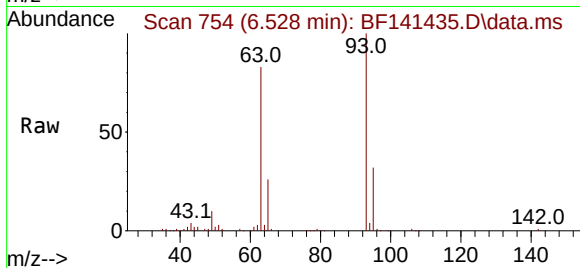
#11
bis(2-Chloroethyl)ether
Concen: 37.520 ng
RT: 6.528 min Scan# 711
Delta R.T. -0.018 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 93 Resp: 198640
Ion Ratio Lower Upper
93 100
63 83.3 65.0 105.0
95 32.2 12.4 52.4

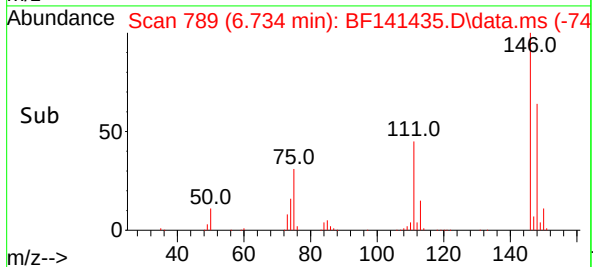
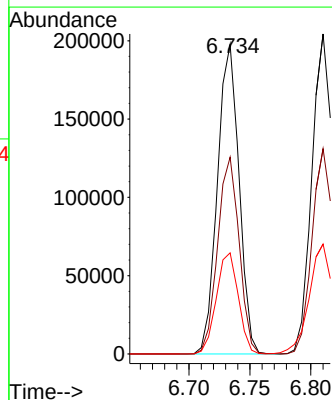
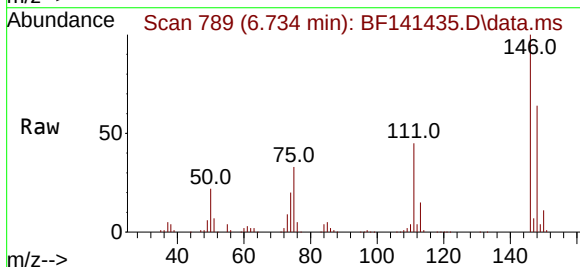
Manual Integrations
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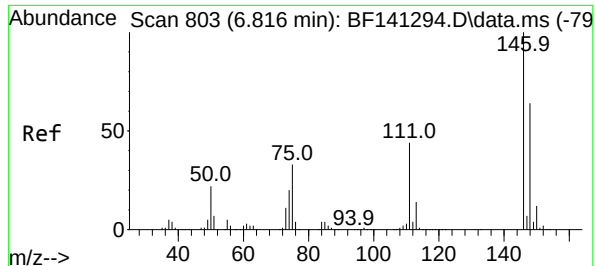
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#12
1,3-Dichlorobenzene
Concen: 40.328 ng
RT: 6.734 min Scan# 789
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Tgt Ion:146 Resp: 244041
Ion Ratio Lower Upper
146 100
148 63.6 51.2 76.8
75 32.6 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 40.809 ng

RT: 6.810 min Scan# 803

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:146 Resp: 248088

Ion Ratio Lower Upper

146 100

148 64.1 51.2 76.8

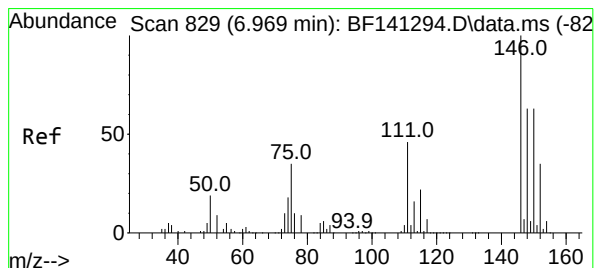
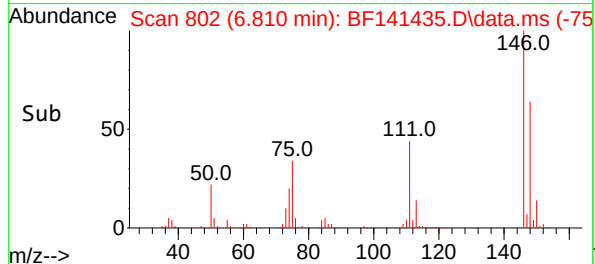
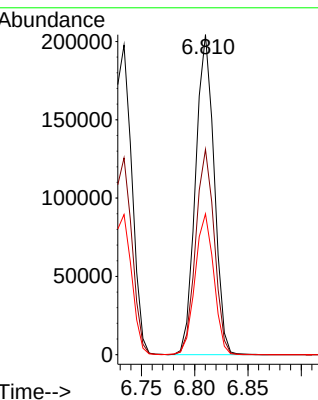
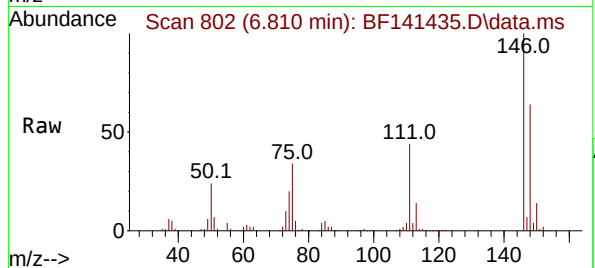
111 44.0 35.0 52.4

Manual Integrations

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Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#14

1,2-Dichlorobenzene

Concen: 40.526 ng

RT: 6.963 min Scan# 828

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

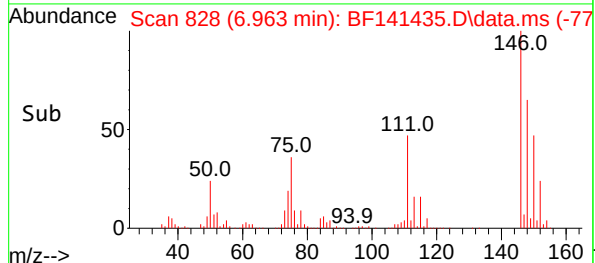
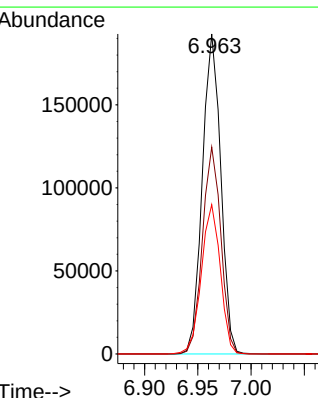
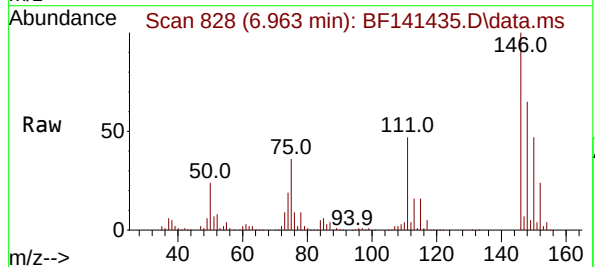
Tgt Ion:146 Resp: 230694

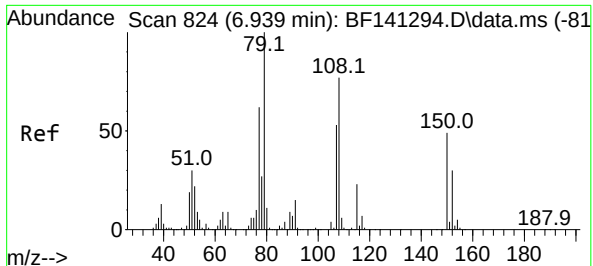
Ion Ratio Lower Upper

146 100

148 64.7 50.5 75.7

111 46.7 36.6 55.0





#15

Benzyl Alcohol

Concen: 42.275 ng

RT: 6.934 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion: 79 Resp: 188189

Ion Ratio Lower Upper

79 100

108 71.6 61.4 92.0

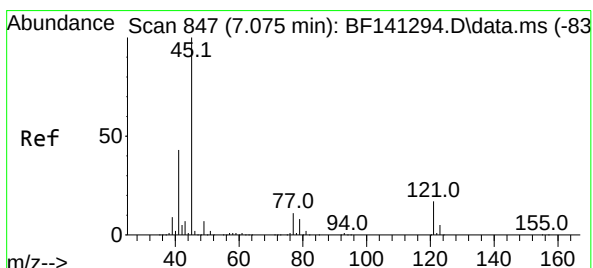
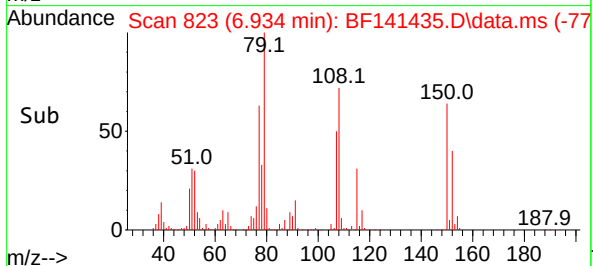
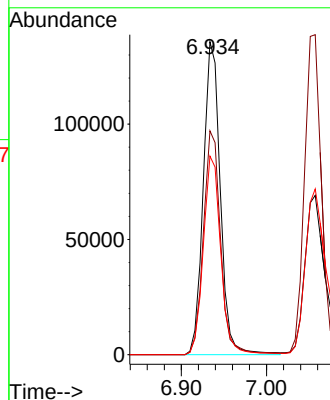
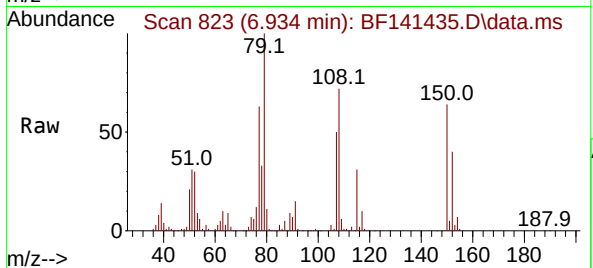
77 63.5 49.9 74.9

Manual Integrations

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Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 34.802 ng

RT: 7.069 min Scan# 846

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

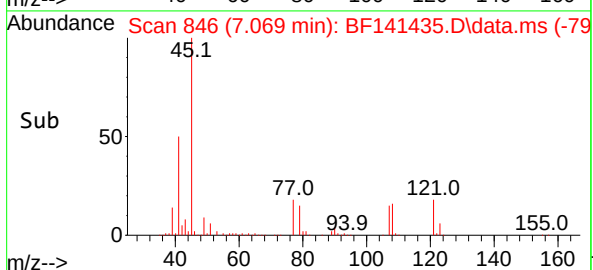
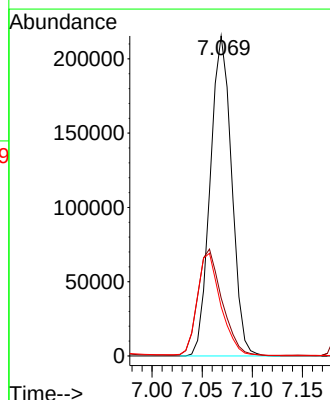
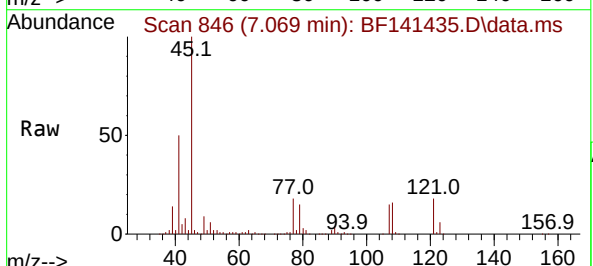
Tgt Ion: 45 Resp: 320404

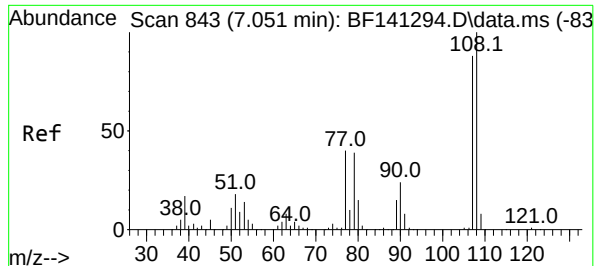
Ion Ratio Lower Upper

45 100

77 18.1 0.0 31.8

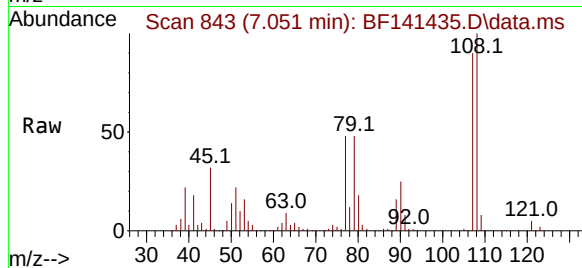
79 15.4 0.0 29.1





#17
2-Methylphenol
Concen: 38.159 ng
RT: 7.051 min Scan# 843
Delta R.T. -0.006 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

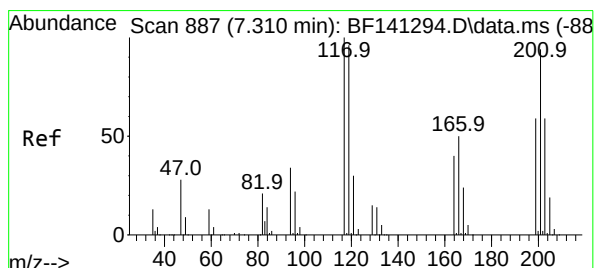
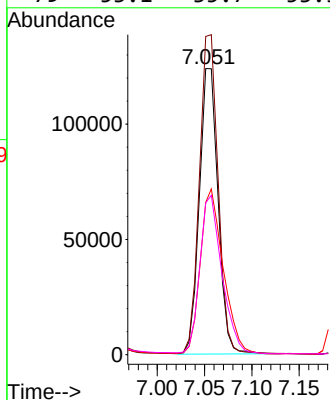
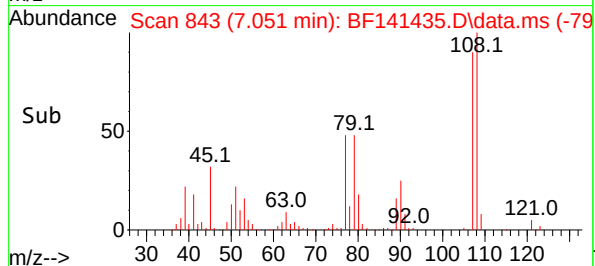
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



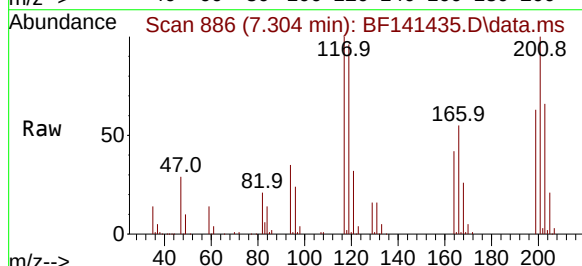
Tgt Ion:107 Resp: 17020
Ion Ratio Lower Upper
107 100
108 111.2 90.8 136.2
77 53.2 36.2 54.4
79 53.1 35.7 53.5

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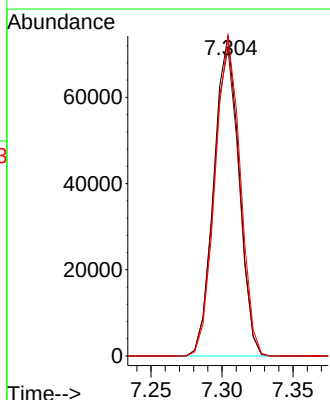
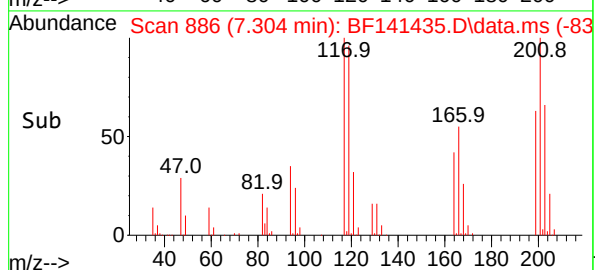
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

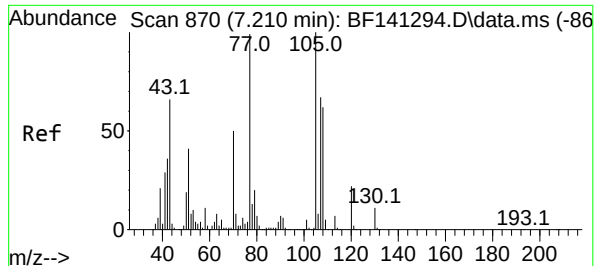


#18
Hexachloroethane
Concen: 40.798 ng
RT: 7.304 min Scan# 886
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02



Tgt Ion:117 Resp: 91496
Ion Ratio Lower Upper
117 100
119 96.1 76.6 114.8
201 99.7 74.8 112.2





#19

n-Nitroso-di-n-propylamine

Concen: 38.623 ng

RT: 7.204 min Scan# 8

Delta R.T. -0.024 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion: 70 Resp: 14949

Ion Ratio Lower Upper

70 100

42 70.9 56.8 85.2

101 9.8 7.7 11.5

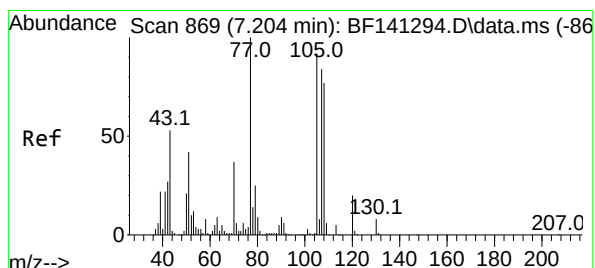
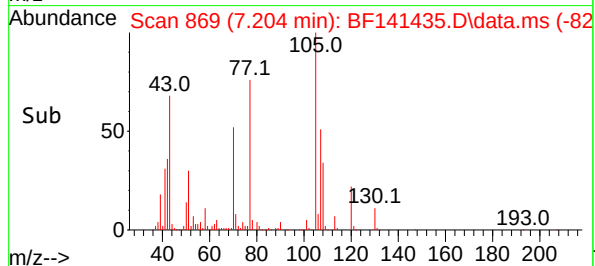
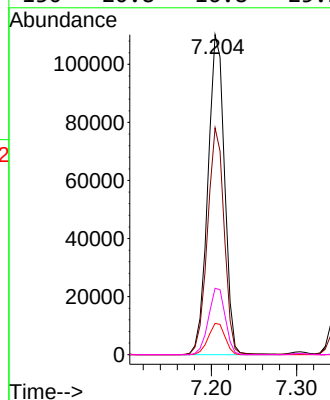
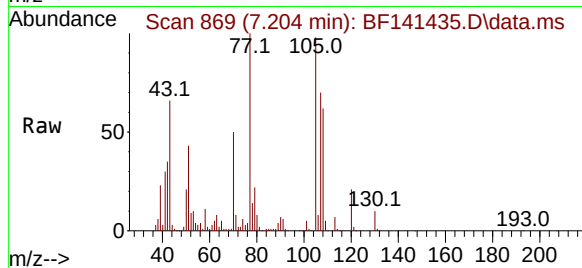
130 20.8 16.8 25.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#20

3+4-Methylphenols

Concen: 40.033 ng

RT: 7.210 min Scan# 870

Delta R.T. -0.006 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Tgt Ion:107 Resp: 219253

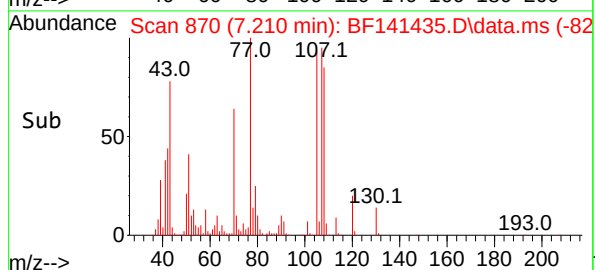
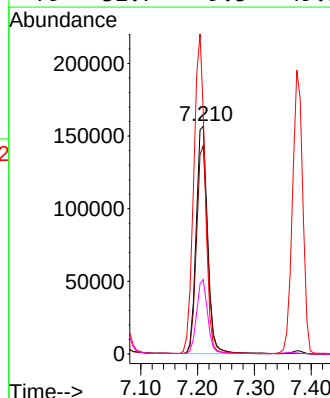
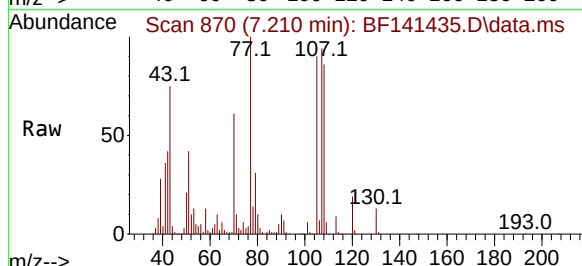
Ion Ratio Lower Upper

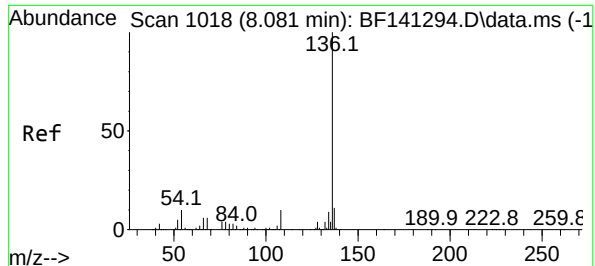
107 100

108 91.5 70.9 110.9

77 106.4 98.5 138.5

79 32.7 9.5 49.5





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.075 min Scan# 1018

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDC040

Tgt Ion:136 Resp: 30187

Ion Ratio Lower Upper

136 100

137 10.7 8.6 13.0

54 9.2 7.8 11.8

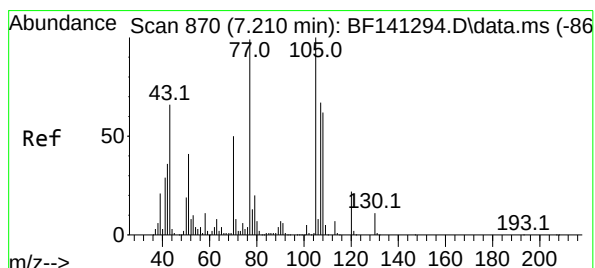
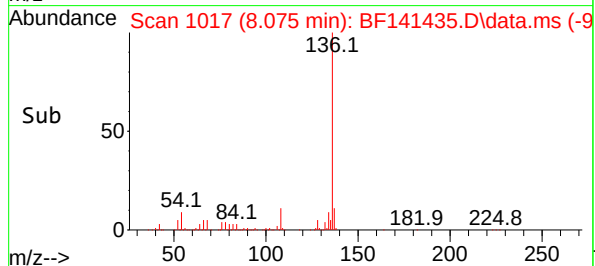
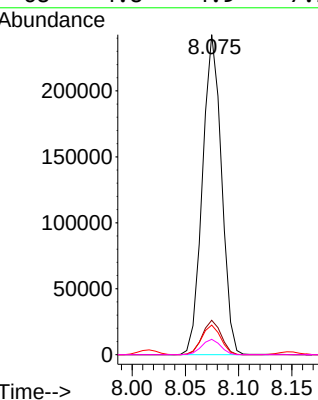
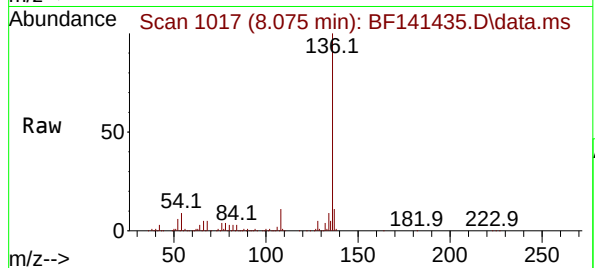
68 4.8 4.9 7.3#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#22

Acetophenone

Concen: 41.439 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Tgt Ion:105 Resp: 297343

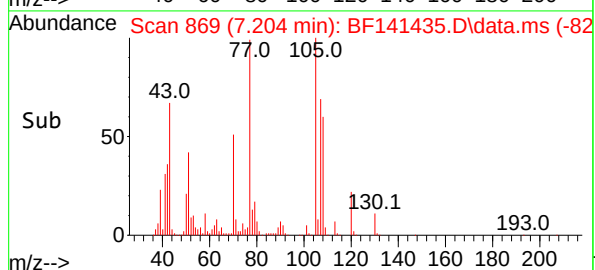
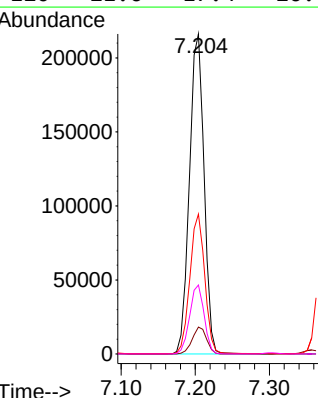
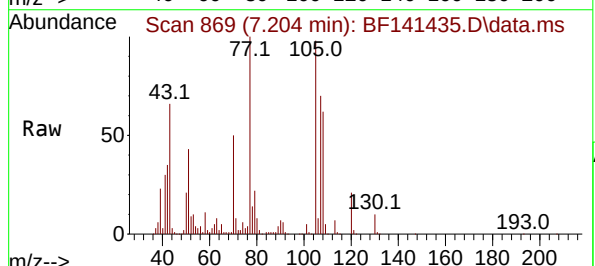
Ion Ratio Lower Upper

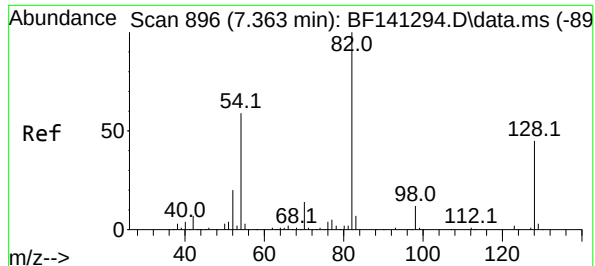
105 100

71 8.4 6.8 10.2

51 43.7 32.6 49.0

120 21.6 17.4 26.0





#23

Nitrobenzene-d5

Concen: 83.608 ng

RT: 7.357 min Scan# 895

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion: 82 Resp: 47876

Ion Ratio Lower Upper

82 100

128 43.3 35.7 53.5

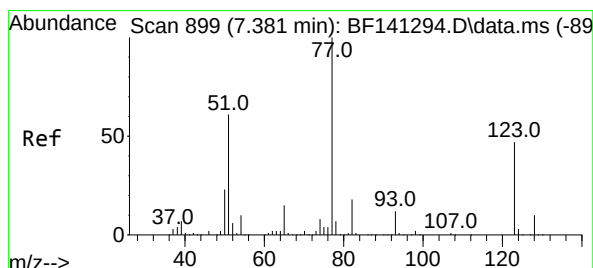
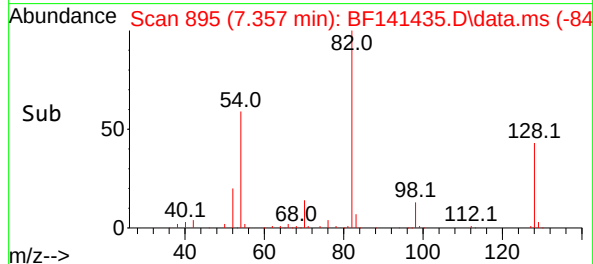
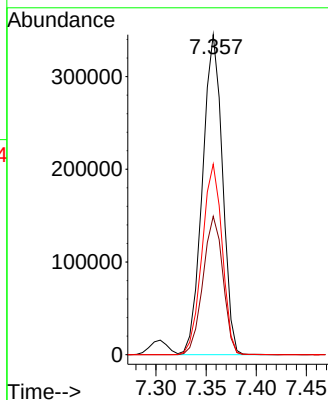
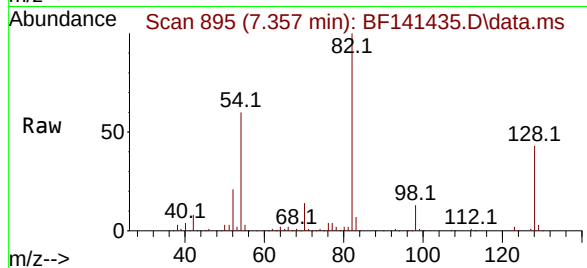
54 59.5 47.1 70.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#24

Nitrobenzene

Concen: 41.037 ng

RT: 7.375 min Scan# 898

Delta R.T. -0.018 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

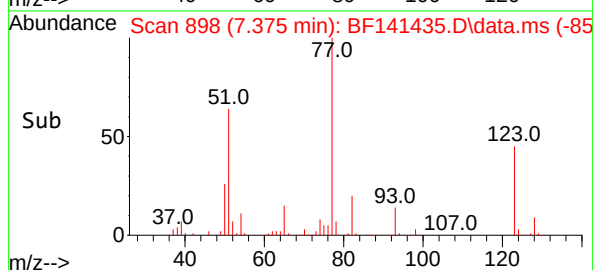
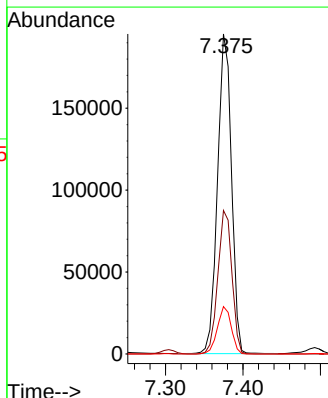
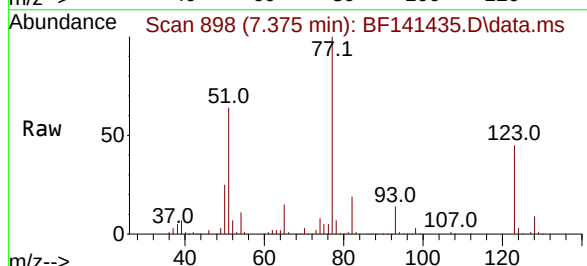
Tgt Ion: 77 Resp: 243522

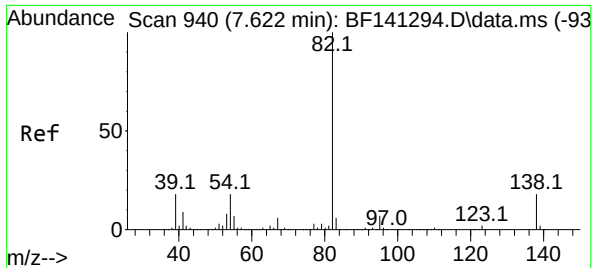
Ion Ratio Lower Upper

77 100

123 44.9 37.3 55.9

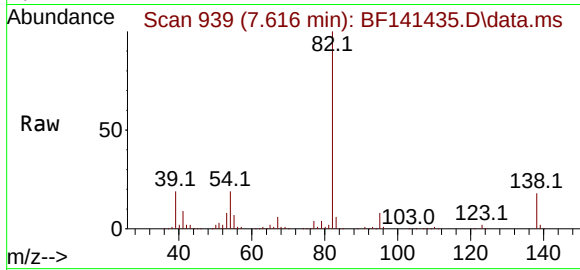
65 14.8 11.8 17.6





#25
Isophorone
Concen: 38.520 ng
RT: 7.616 min Scan# 91
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

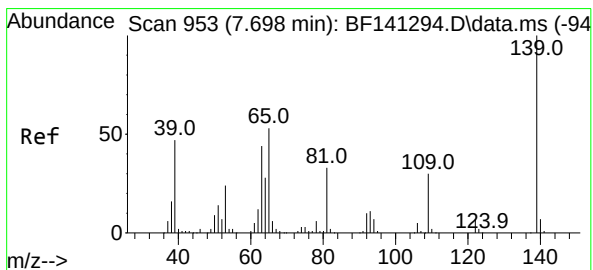
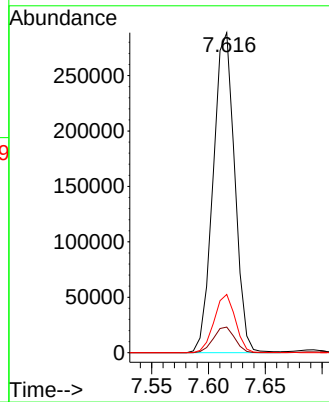
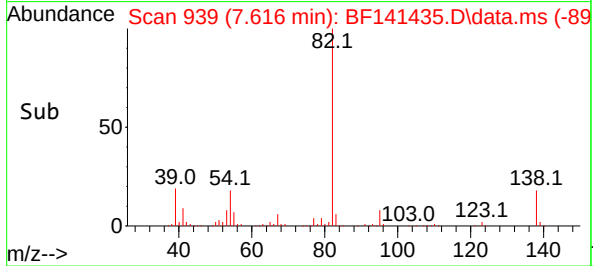
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



Tgt Ion: 82 Resp: 38128
Ion Ratio Lower Upper
82 100
95 8.0 5.8 8.6
138 18.2 14.7 22.1

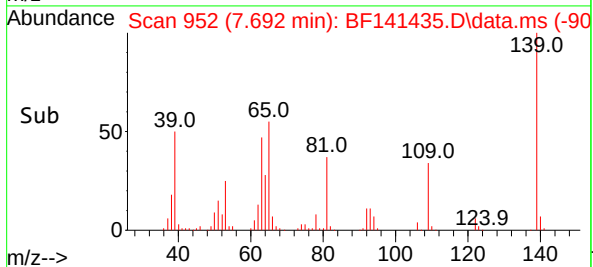
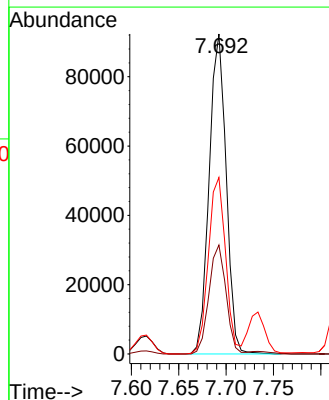
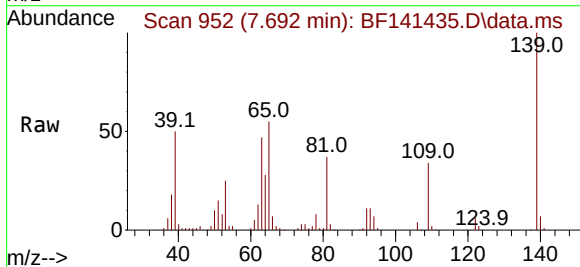
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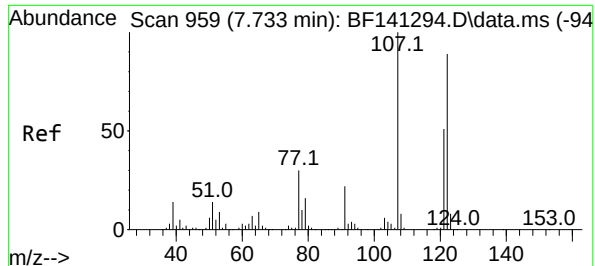
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#26
2-Nitrophenol
Concen: 41.137 ng
RT: 7.692 min Scan# 952
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Tgt Ion:139 Resp: 115128
Ion Ratio Lower Upper
139 100
109 34.0 23.8 35.6
65 55.2 42.2 63.4





#27

2,4-Dimethylphenol

Concen: 38.795 ng m

RT: 7.734 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:122 Resp: 138190

Ion Ratio Lower Upper

122 100

107 119.3 89.9 134.9

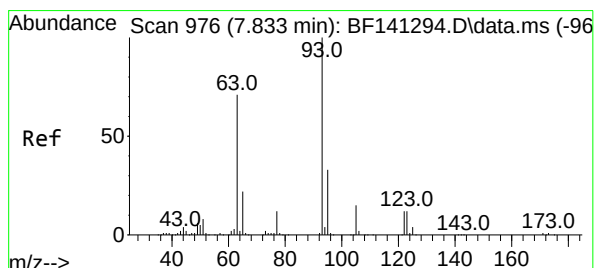
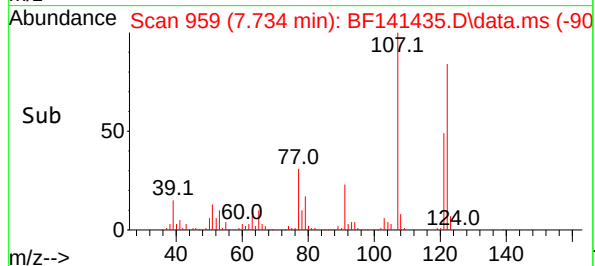
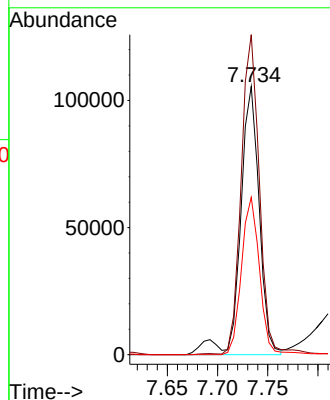
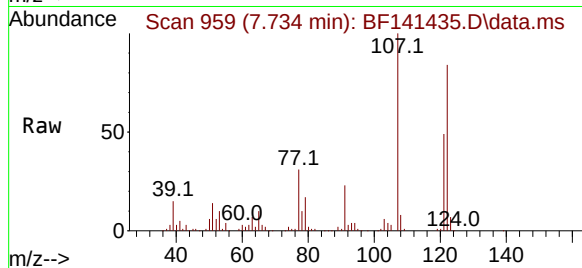
121 58.7 46.1 69.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#28

bis(2-Chloroethoxy)methane

Concen: 37.533 ng

RT: 7.828 min Scan# 975

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

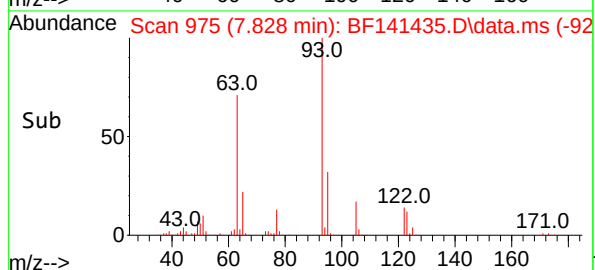
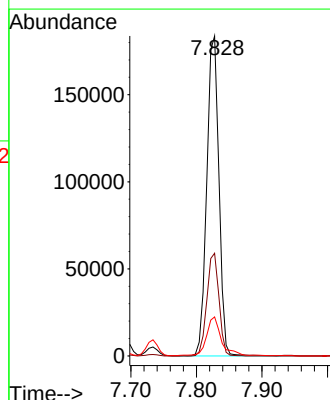
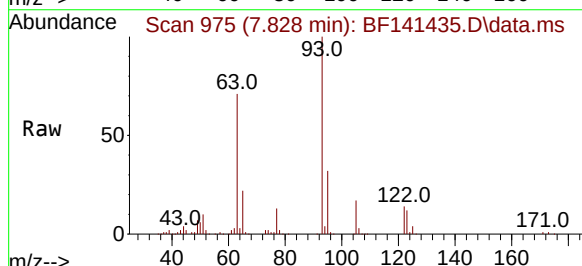
Tgt Ion: 93 Resp: 236983

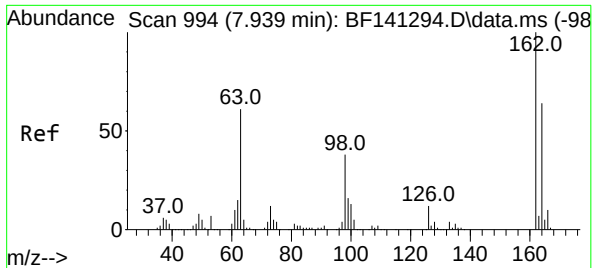
Ion Ratio Lower Upper

93 100

95 32.1 26.2 39.2

123 12.2 10.2 15.4





#29

2,4-Dichlorophenol

Concen: 41.092 ng

RT: 7.939 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141435.D

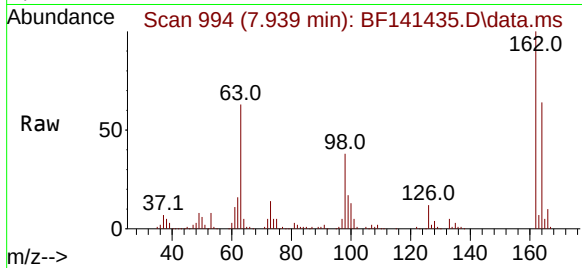
Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040



Tgt Ion:162 Resp: 17920

Ion Ratio Lower Upper

162 100

164 63.9 44.2 84.2

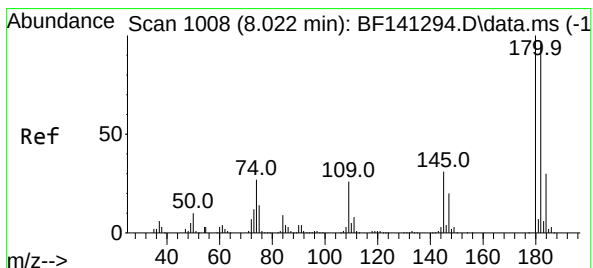
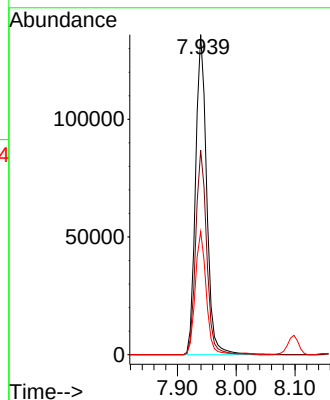
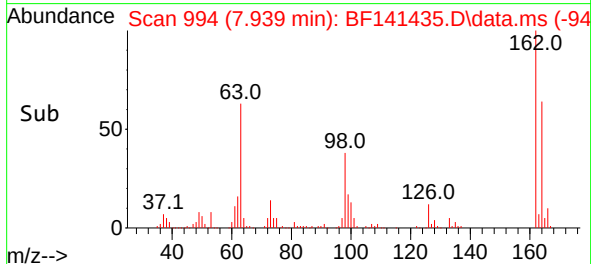
98 38.4 18.2 58.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#30

1,2,4-Trichlorobenzene

Concen: 41.020 ng

RT: 8.016 min Scan# 1007

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

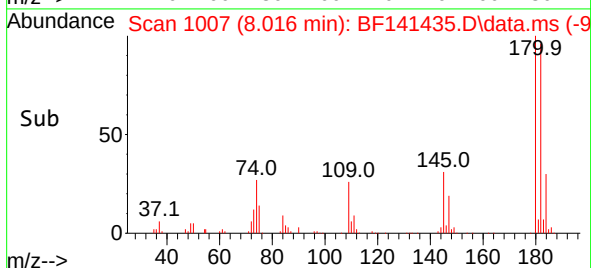
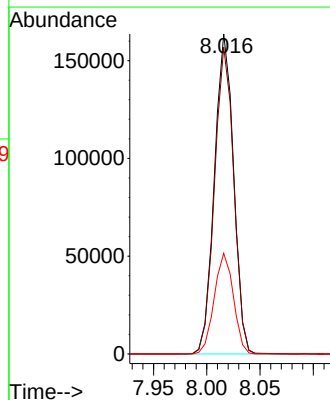
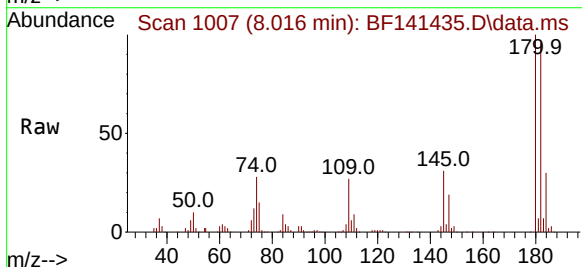
Tgt Ion:180 Resp: 204292

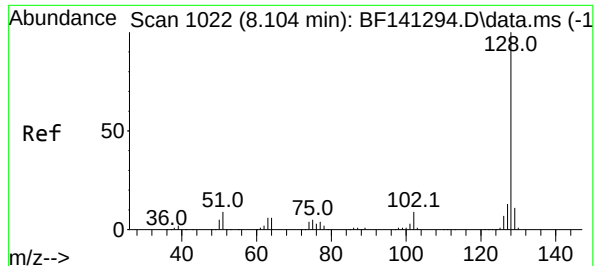
Ion Ratio Lower Upper

180 100

182 95.9 76.4 114.6

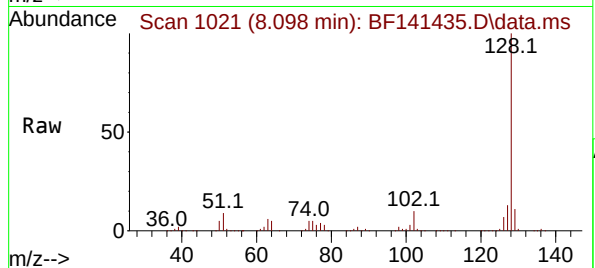
145 31.5 24.9 37.3





#31
Naphthalene
Concen: 40.064 ng
RT: 8.098 min Scan# 1022
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

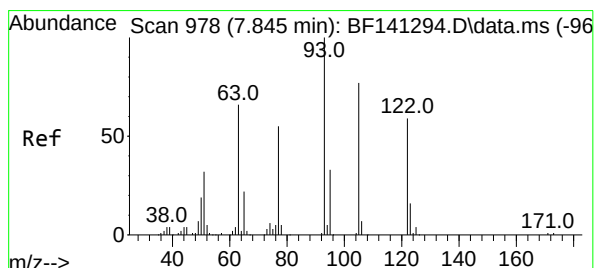
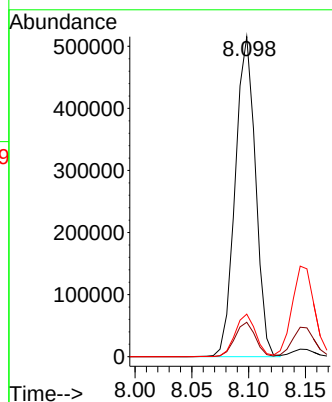
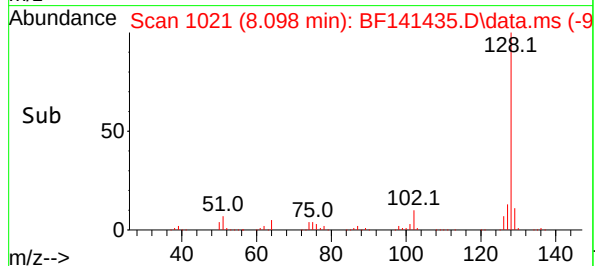
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



Tgt Ion:128 Resp: 63889
Ion Ratio Lower Upper
128 100
129 10.7 8.9 13.3
127 13.3 10.6 15.8

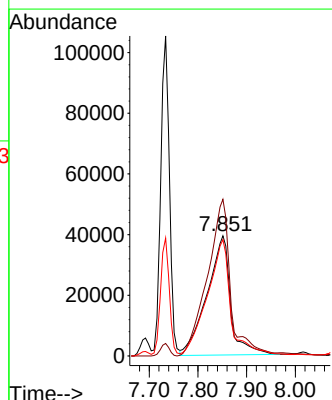
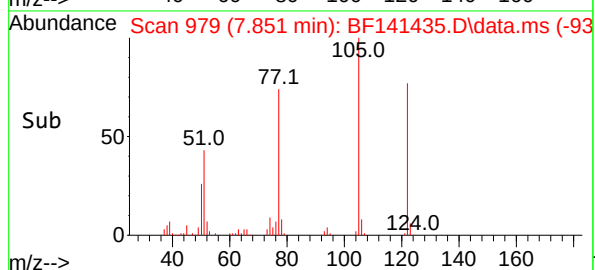
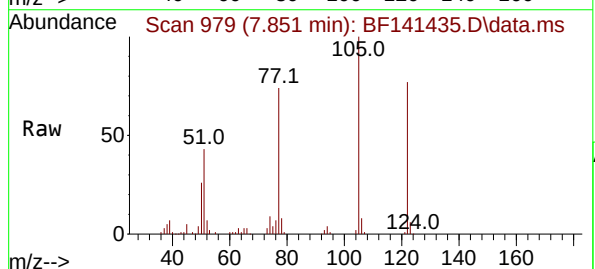
Manual Integrations
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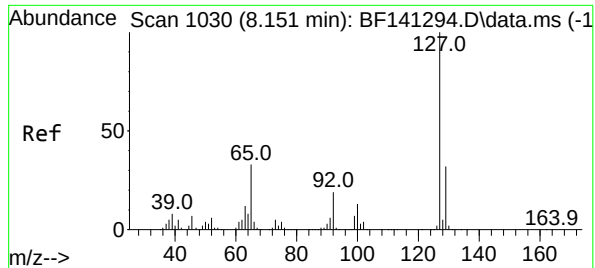
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#32
Benzoic acid
Concen: 40.161 ng
RT: 7.851 min Scan# 979
Delta R.T. -0.030 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Tgt Ion:122 Resp: 131516
Ion Ratio Lower Upper
122 100
105 130.3 103.4 143.4
77 96.7 70.9 110.9





#33

4-Chloroaniline

Concen: 37.413 ng

RT: 8.145 min Scan# 1029

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:127 Resp: 202319

Ion Ratio Lower Upper

127 100

129 32.4 25.7 38.5

65 34.1 26.4 39.6

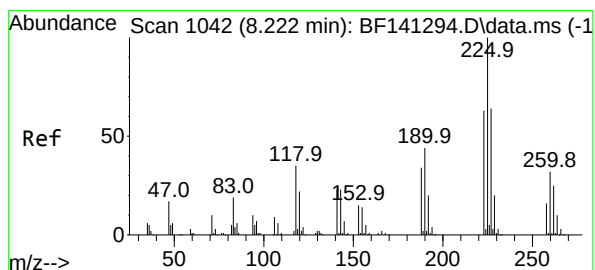
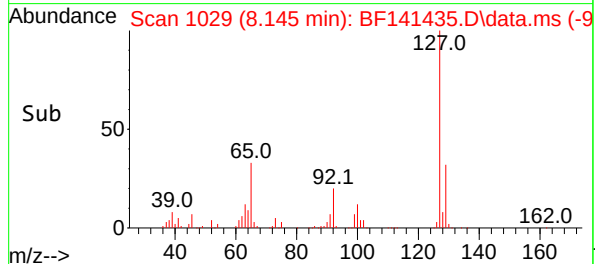
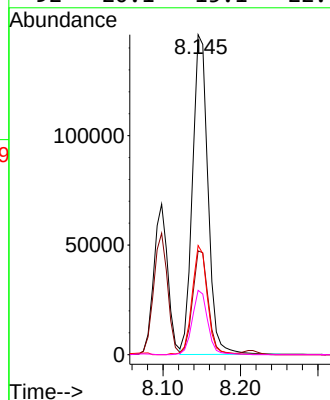
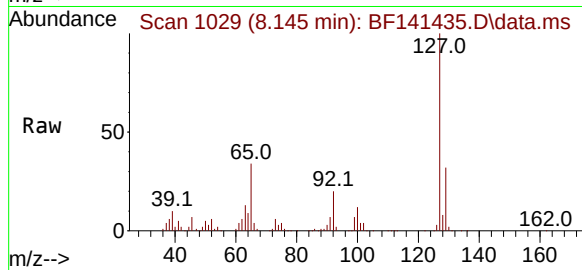
92 20.1 15.1 22.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#34

Hexachlorobutadiene

Concen: 43.834 ng

RT: 8.216 min Scan# 1041

Delta R.T. -0.006 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

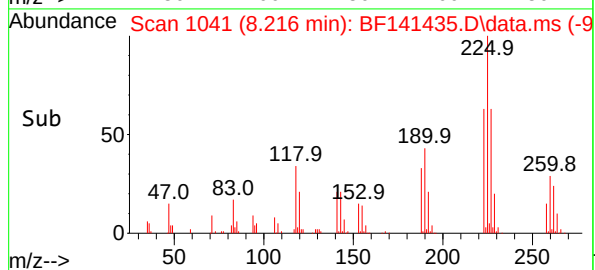
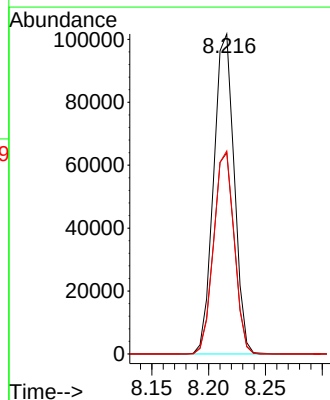
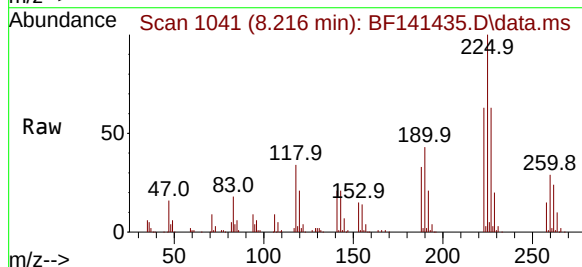
Tgt Ion:225 Resp: 128024

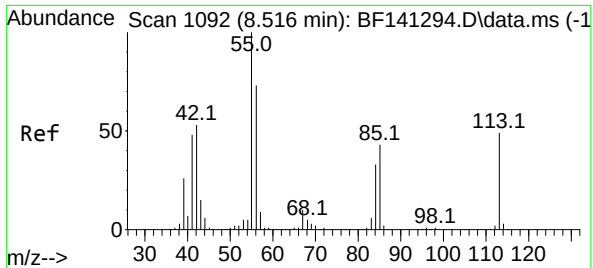
Ion Ratio Lower Upper

225 100

223 62.8 50.4 75.6

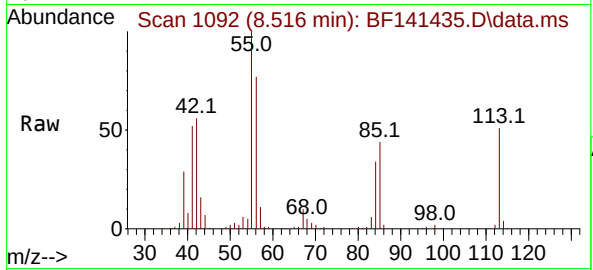
227 63.4 51.3 76.9





#35
Caprolactam
Concen: 39.058 ng
RT: 8.516 min Scan# 1092
Delta R.T. -0.030 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

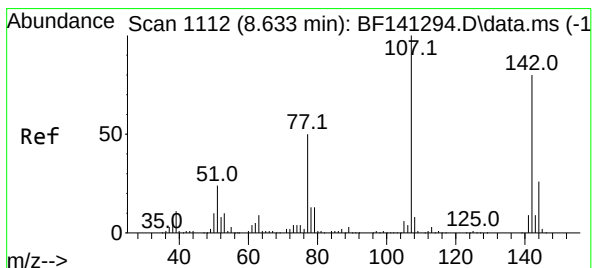
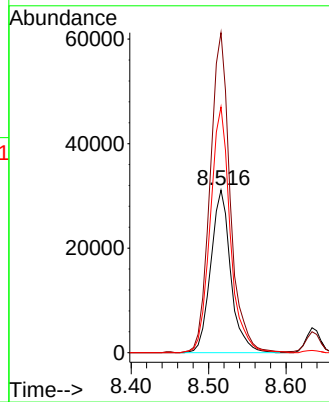
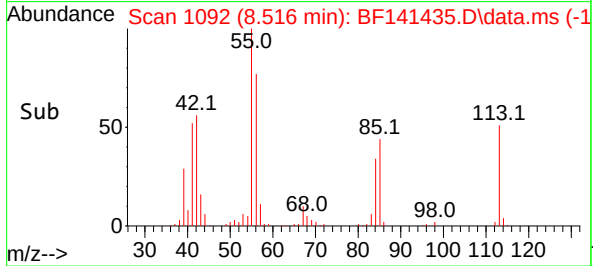
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



Tgt Ion:113 Resp: 55628
Ion Ratio Lower Upper
113 100
55 196.8 182.9 222.9
56 151.2 127.9 167.9

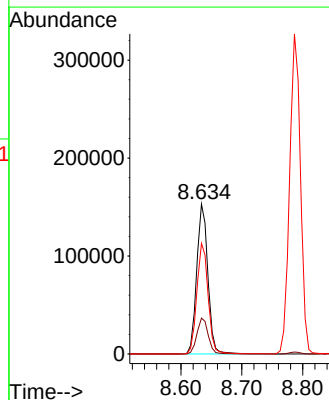
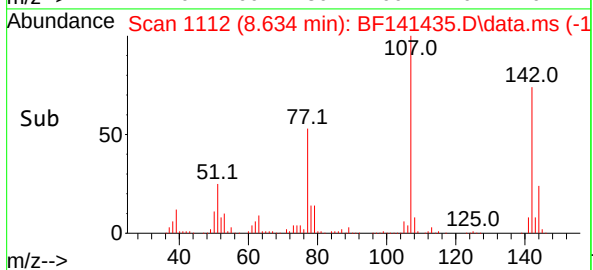
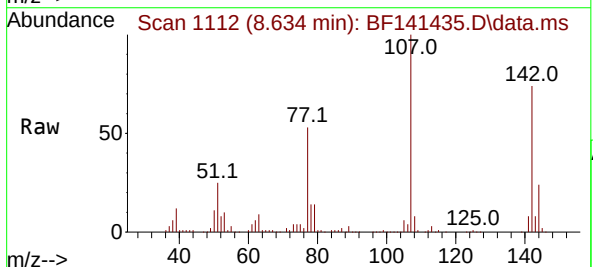
Manual Integrations
APPROVED

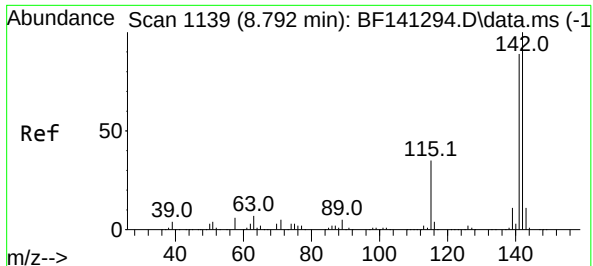
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#36
4-Chloro-3-methylphenol
Concen: 41.751 ng
RT: 8.634 min Scan# 1112
Delta R.T. -0.006 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

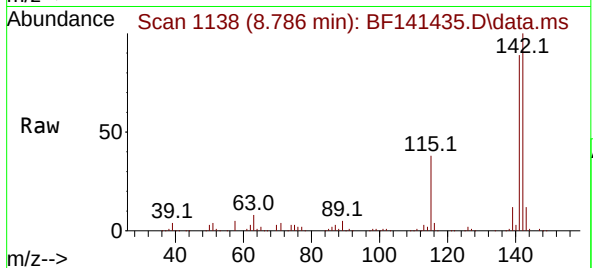
Tgt Ion:107 Resp: 195300
Ion Ratio Lower Upper
107 100
144 23.9 20.7 31.1
142 73.7 63.8 95.8





#37
2-Methylnaphthalene
Concen: 39.913 ng
RT: 8.786 min Scan# 1138
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

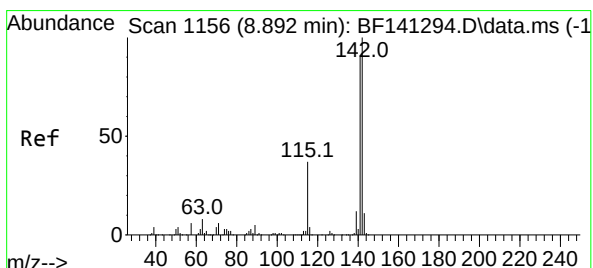
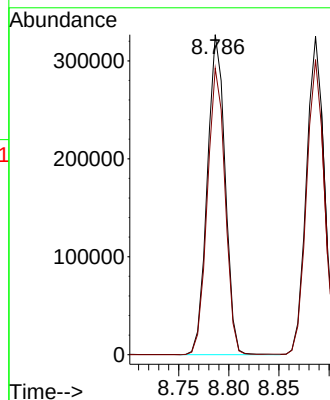
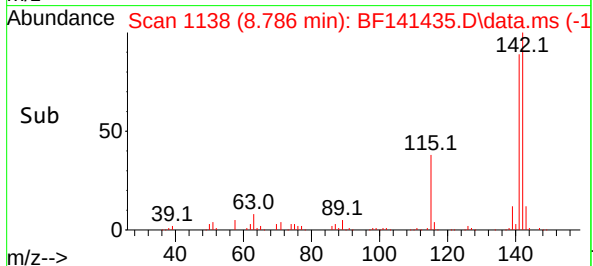
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



Tgt Ion:142 Resp: 404544
Ion Ratio Lower Upper
142 100
141 89.5 71.3 106.9

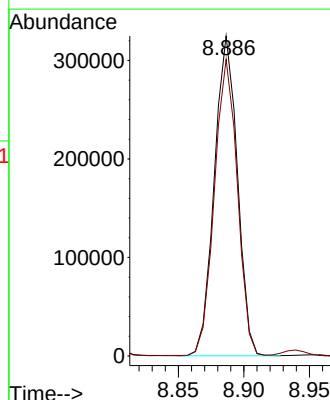
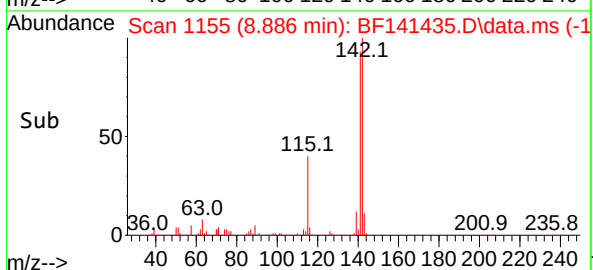
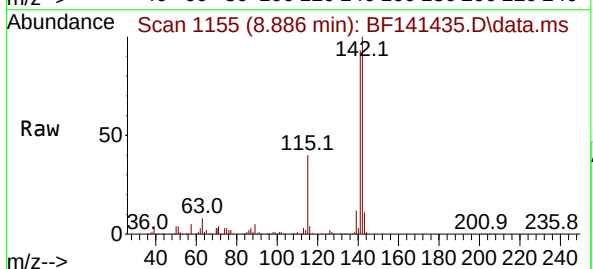
Manual Integrations
APPROVED

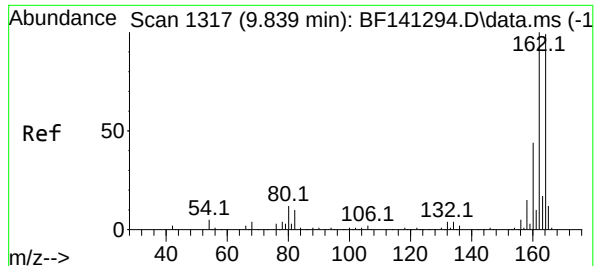
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#38
1-Methylnaphthalene
Concen: 39.835 ng
RT: 8.886 min Scan# 1155
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Tgt Ion:142 Resp: 396613
Ion Ratio Lower Upper
142 100
141 92.7 73.2 109.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.828 min Scan# 1165

Delta R.T. -0.012 min

Lab File: BF141435.D

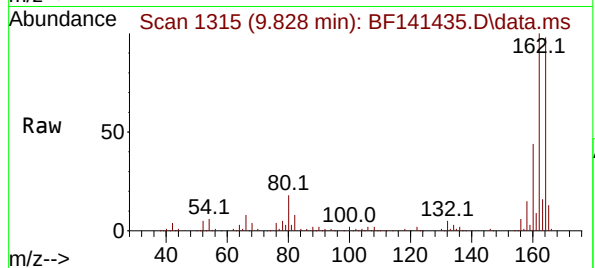
Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040



Tgt Ion:164 Resp: 162758

Ion Ratio Lower Upper

164 100

162 101.6 80.6 121.0

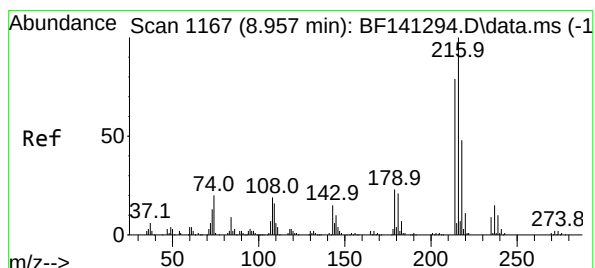
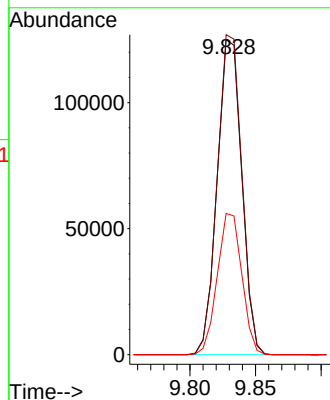
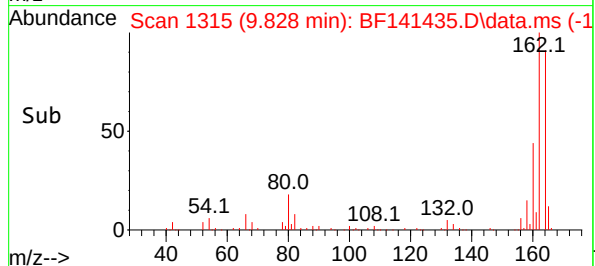
160 44.9 35.8 53.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#40

1,2,4,5-Tetrachlorobenzene

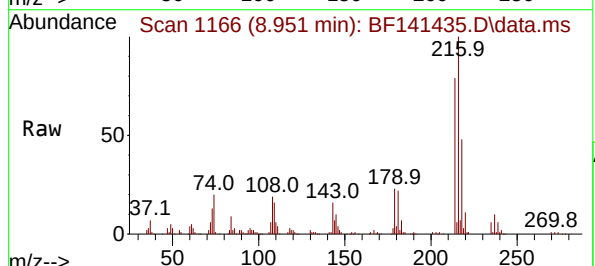
Concen: 40.737 ng

RT: 8.951 min Scan# 1166

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02



Tgt Ion:216 Resp: 188623

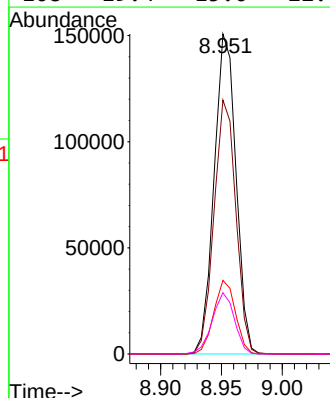
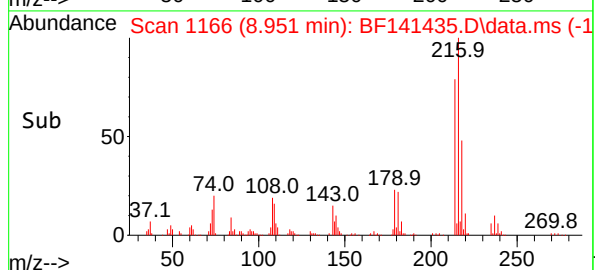
Ion Ratio Lower Upper

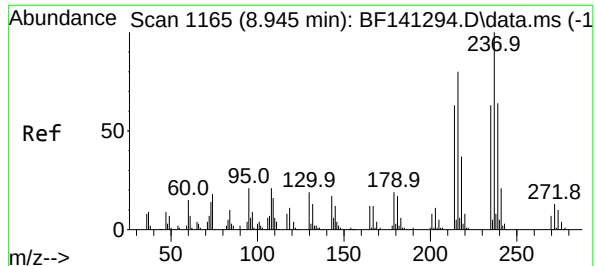
216 100

214 79.2 63.2 94.8

179 22.8 17.8 26.8

108 19.4 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 39.437 ng

RT: 8.939 min Scan# 1164

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

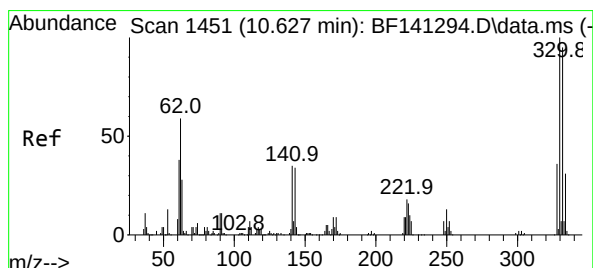
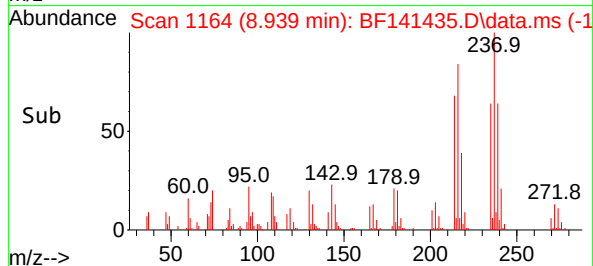
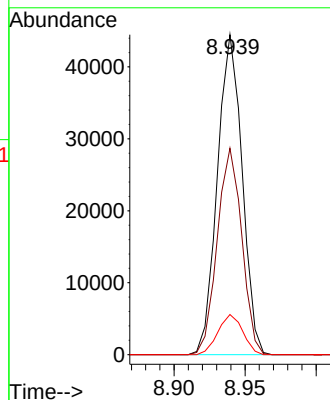
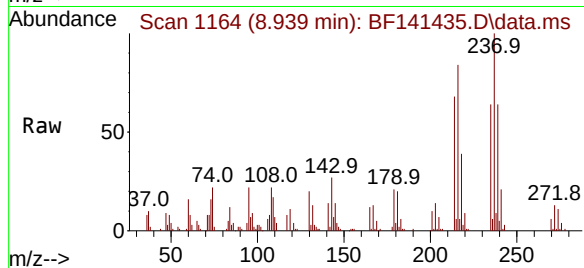
Tgt Ion:	237	Resp:	53928
Ion Ratio	Lower	Upper	
237	100		
235	64.5	42.9	82.9
272	12.5	0.0	32.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#42

2,4,6-Tribromophenol

Concen: 85.780 ng

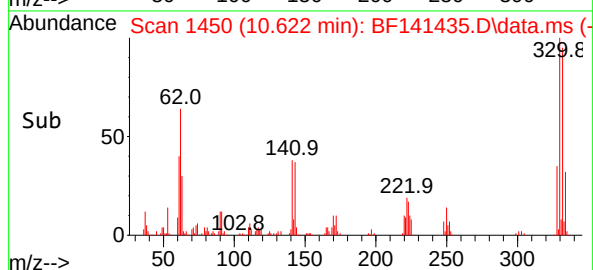
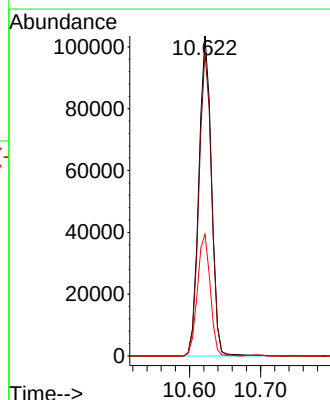
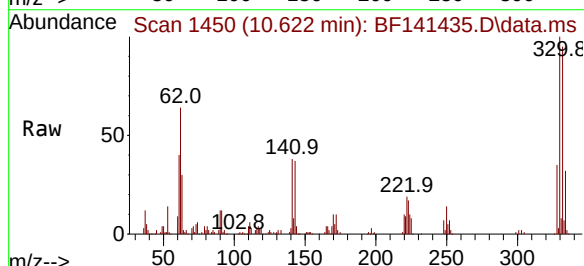
RT: 10.622 min Scan# 1450

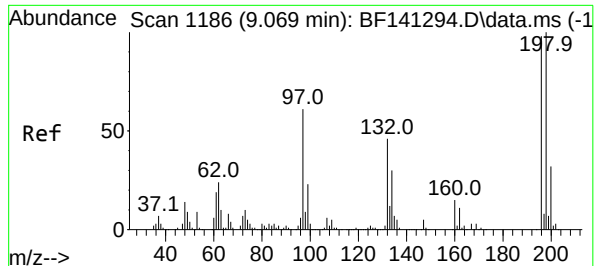
Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

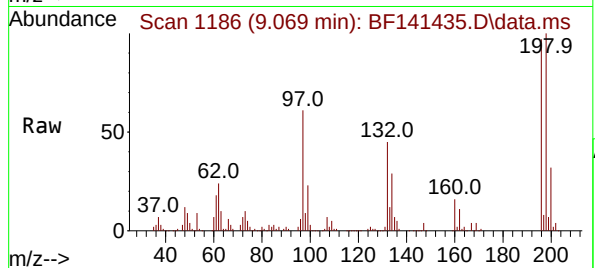
Tgt Ion:	330	Resp:	127994
Ion Ratio	Lower	Upper	
330	100		
332	94.8	76.1	114.1
141	38.5	28.8	43.2





#43
2,4,6-Trichlorophenol
Concen: 41.315 ng
RT: 9.069 min Scan# 1186
Delta R.T. -0.006 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

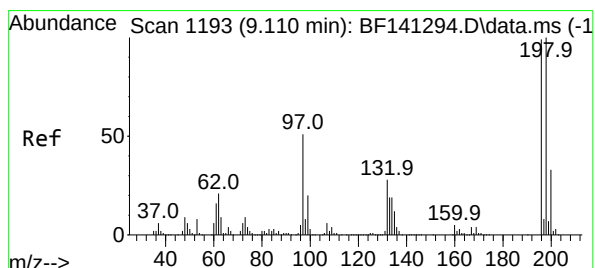
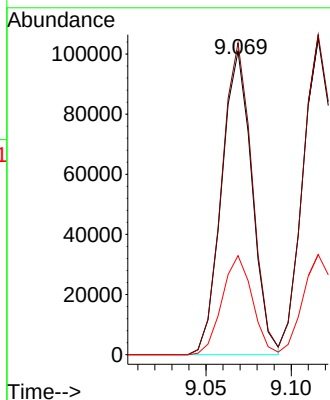
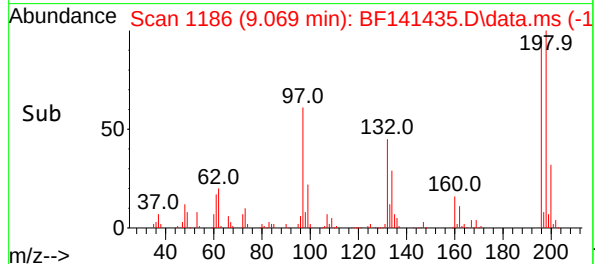
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



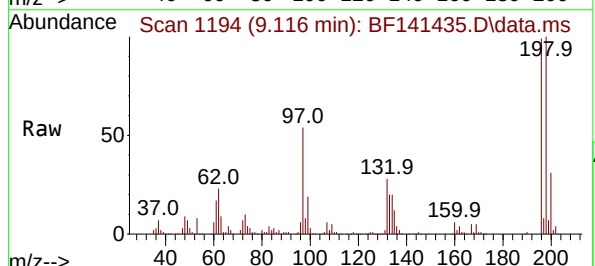
Tgt Ion:196 Resp: 12521
Ion Ratio Lower Upper
196 100
198 102.7 81.8 122.6
200 32.6 26.3 39.5

Manual Integrations
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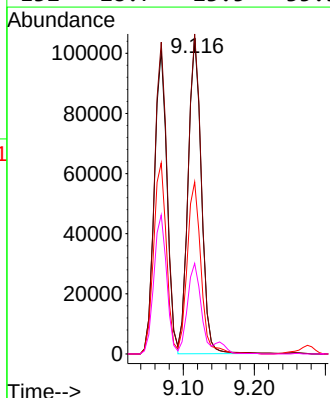
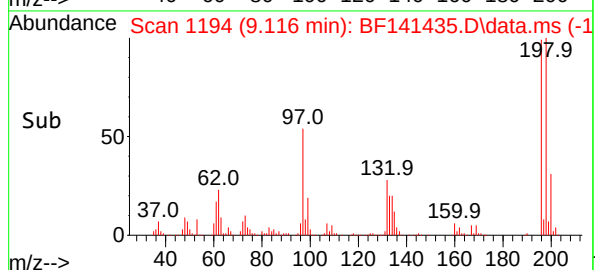
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

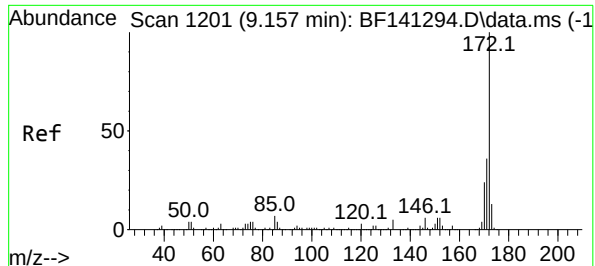


#44
2,4,5-Trichlorophenol
Concen: 41.284 ng
RT: 9.116 min Scan# 1194
Delta R.T. -0.000 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02



Tgt Ion:196 Resp: 136179
Ion Ratio Lower Upper
196 100
198 101.2 80.5 120.7
97 54.4 42.8 64.2
132 28.7 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 82.364 ng

RT: 9.151 min Scan# 1200

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:172 Resp: 87093

Ion Ratio Lower Upper

172 100

171 35.5 28.8 43.2

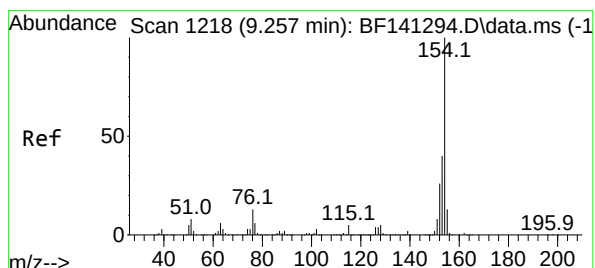
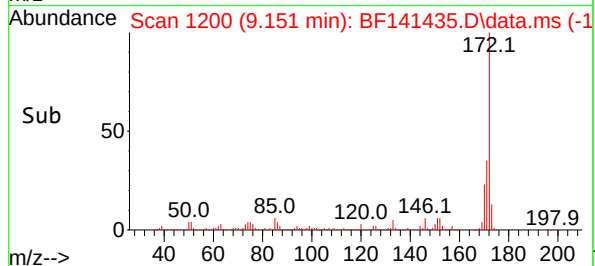
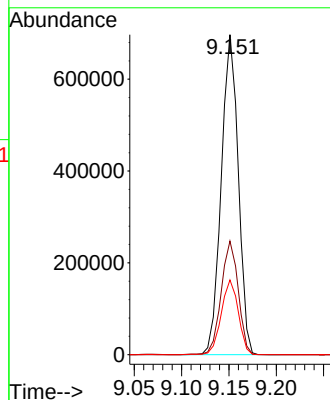
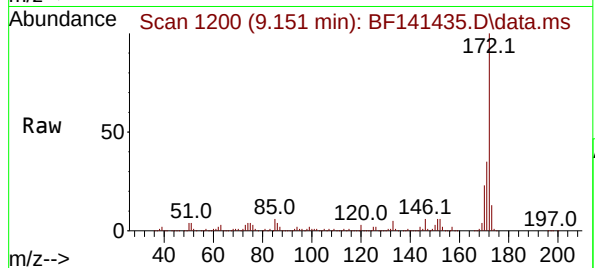
170 23.4 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#46

1,1'-Biphenyl

Concen: 39.392 ng

RT: 9.251 min Scan# 1217

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

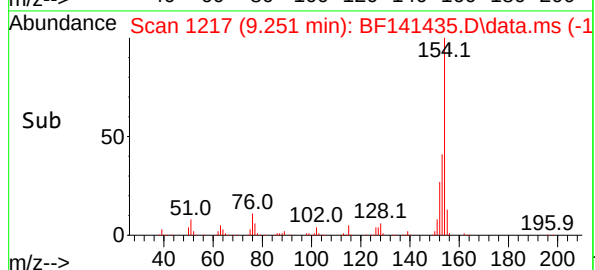
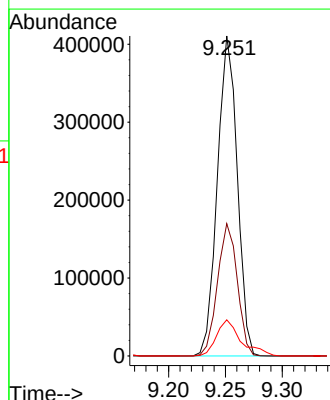
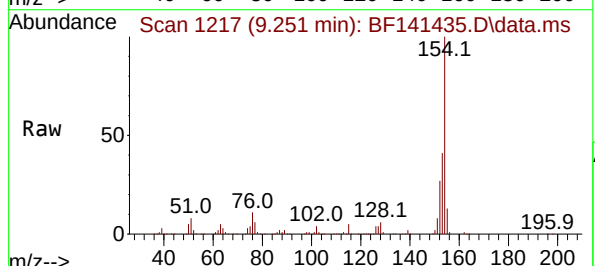
Tgt Ion:154 Resp: 500011

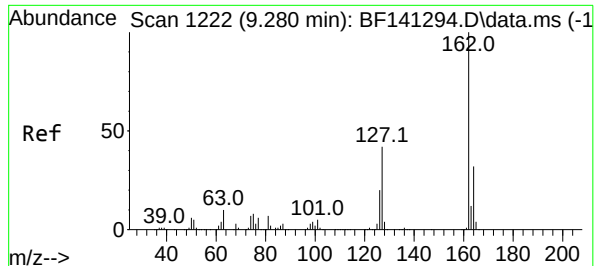
Ion Ratio Lower Upper

154 100

153 41.3 20.0 60.0

76 11.3 0.0 32.8





#47

2-Chloronaphthalene

Concen: 40.191 ng

RT: 9.275 min Scan# 1221

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:162 Resp: 39763

Ion Ratio Lower Upper

162 100

127 42.2 33.7 50.5

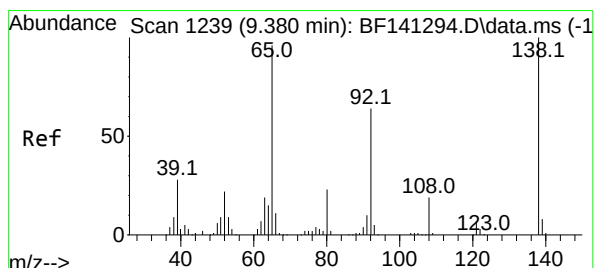
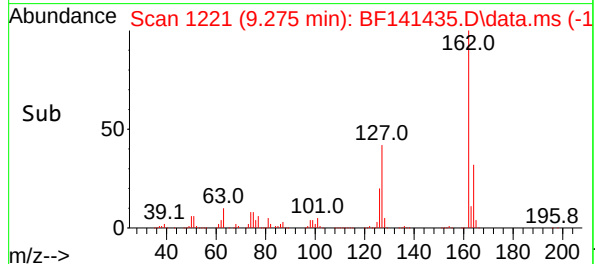
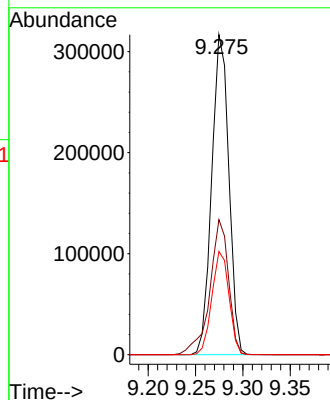
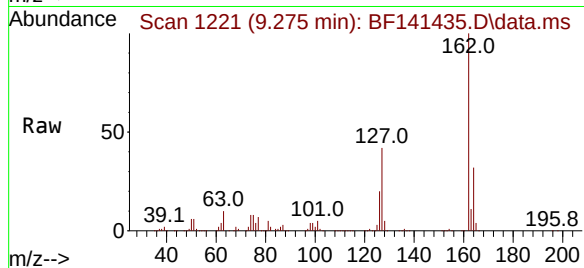
164 32.3 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#48

2-Nitroaniline

Concen: 41.385 ng

RT: 9.375 min Scan# 1238

Delta R.T. -0.006 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

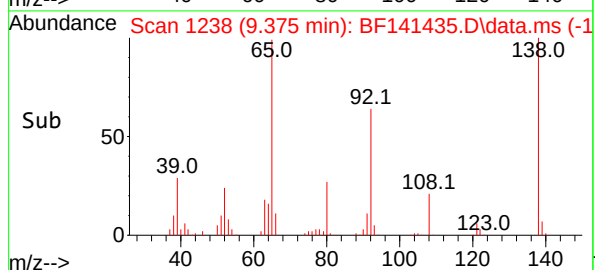
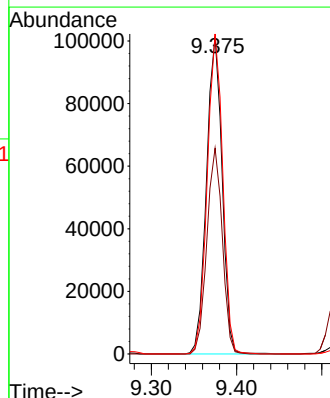
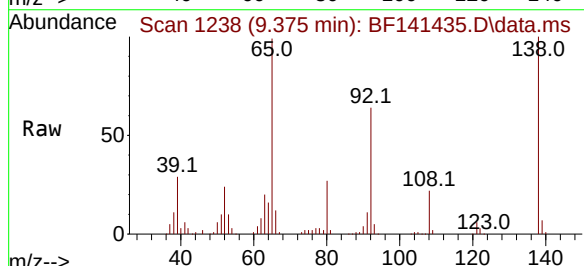
Tgt Ion: 65 Resp: 128787

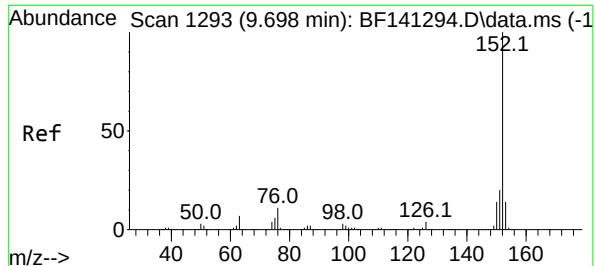
Ion Ratio Lower Upper

65 100

92 64.8 53.3 79.9

138 100.8 83.6 125.4





#49

Acenaphthylene

Concen: 39.872 ng

RT: 9.692 min Scan# 1293

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

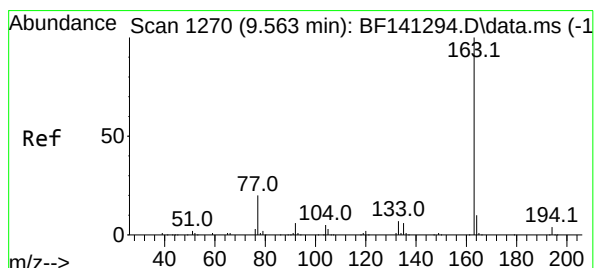
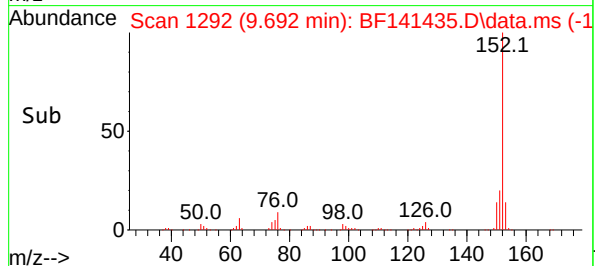
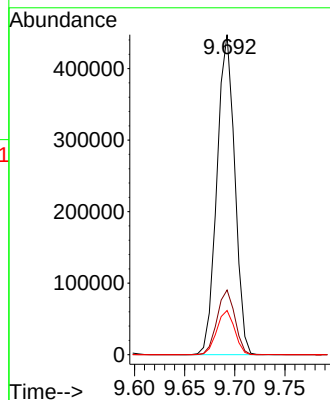
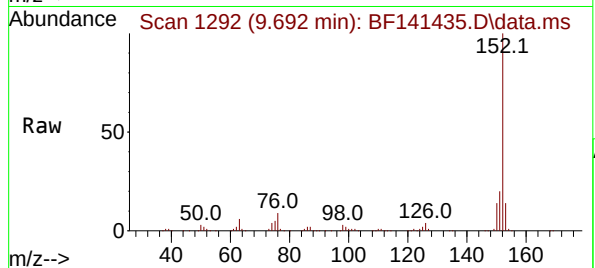
Tgt Ion:152	Resp: 552204
Ion Ratio	Lower Upper
152	100
151	20.2 16.2 24.2
153	13.8 11.0 16.6

Manual Integrations

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Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#50

Dimethylphthalate

Concen: 39.828 ng

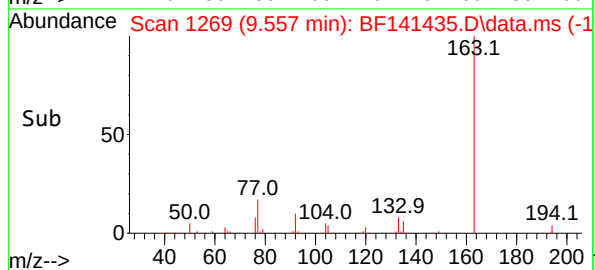
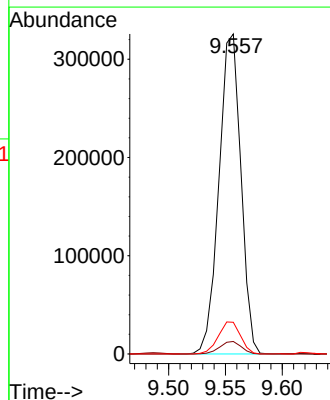
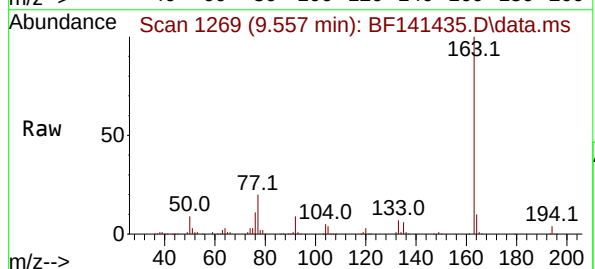
RT: 9.557 min Scan# 1269

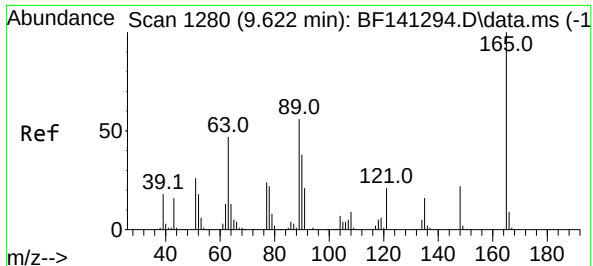
Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

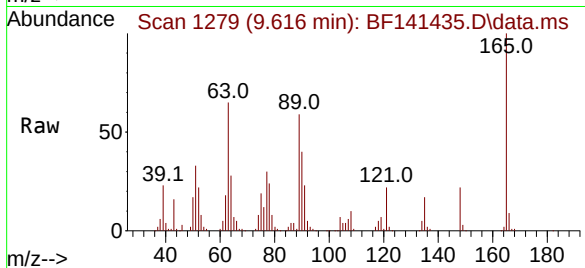
Tgt Ion:163	Resp: 437816
Ion Ratio	Lower Upper
163	100
194	3.9 3.0 4.6
164	9.9 8.0 12.0





#51
2,6-Dinitrotoluene
Concen: 40.695 ng
RT: 9.616 min Scan# 1279
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

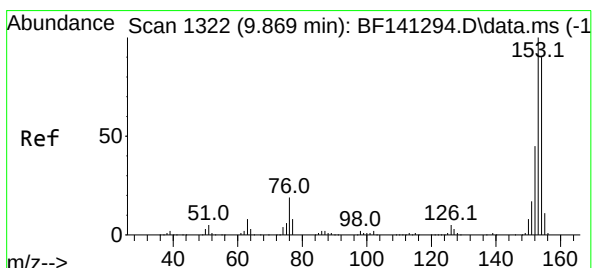
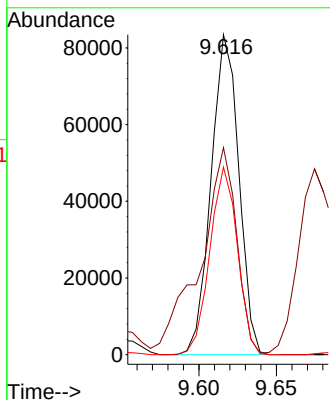
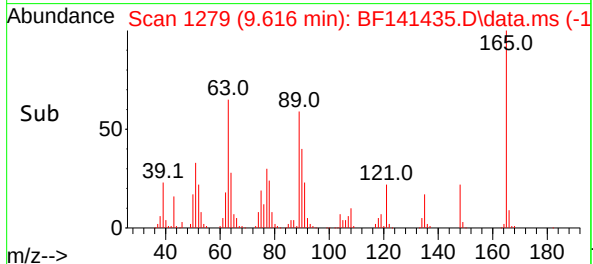
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



Tgt Ion:165 Resp: 10386
Ion Ratio Lower Upper
165 100
63 64.7 48.1 72.1
89 58.6 44.9 67.3

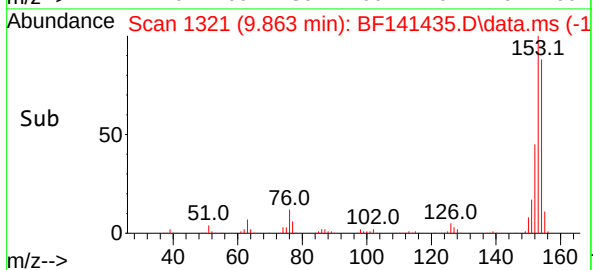
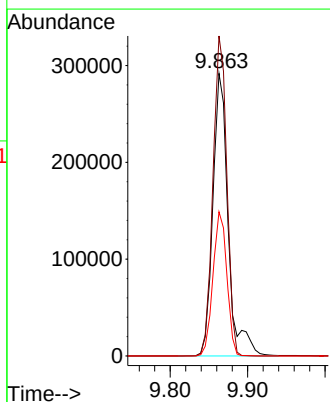
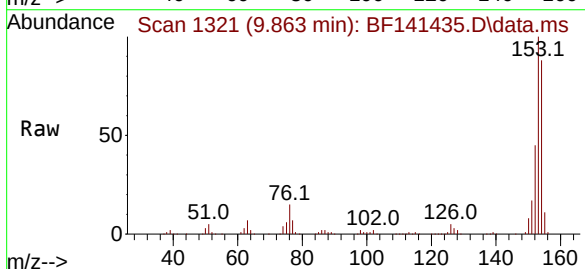
Manual Integrations
APPROVED

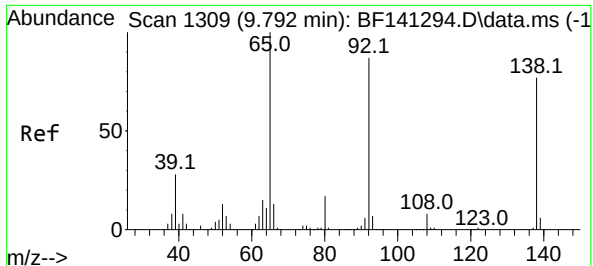
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#52
Acenaphthene
Concen: 40.520 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

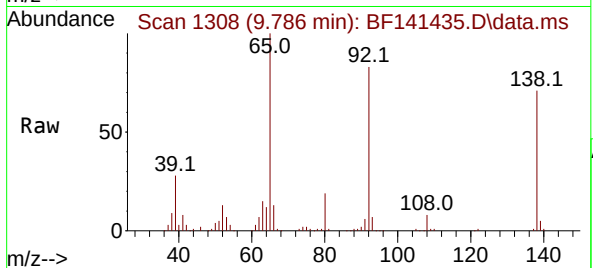
Tgt Ion:154 Resp: 400902
Ion Ratio Lower Upper
154 100
153 113.2 89.0 133.4
152 51.0 40.2 60.4





#53
3-Nitroaniline
Concen: 40.165 ng
RT: 9.786 min Scan# 1308
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

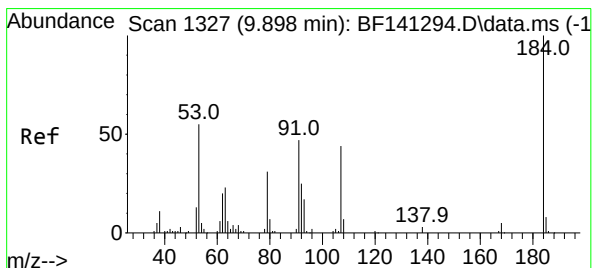
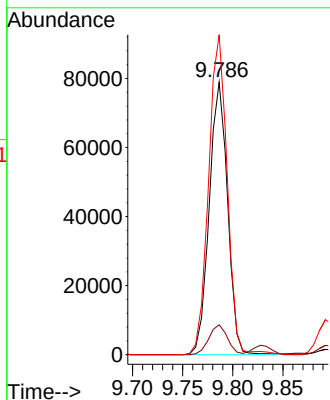
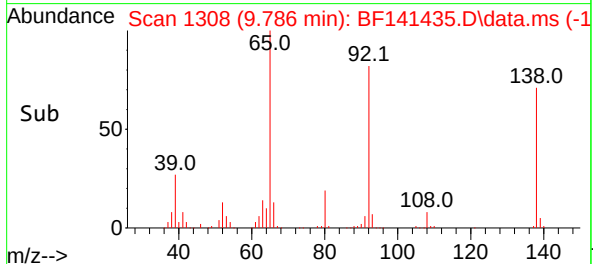
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



Tgt Ion:138 Resp: 100479
Ion Ratio Lower Upper
138 100
108 11.0 8.6 12.8
92 117.4 91.0 136.6

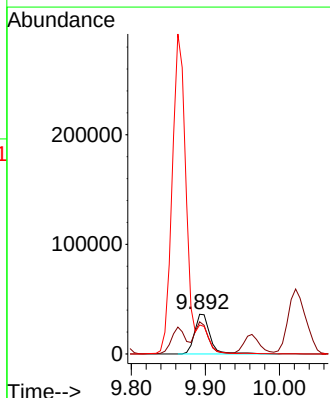
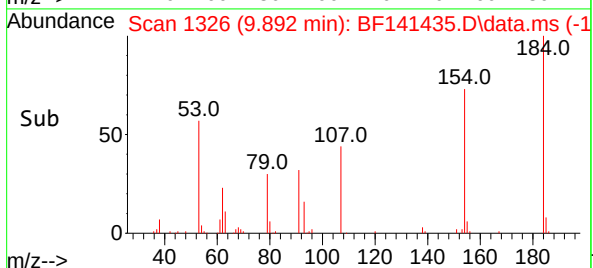
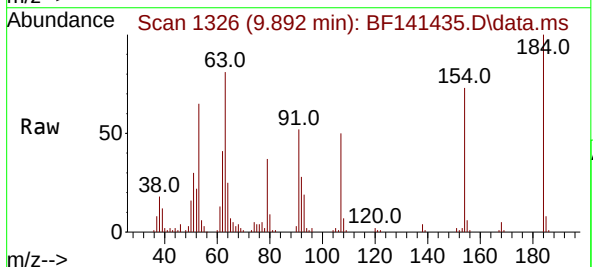
Manual Integrations
APPROVED

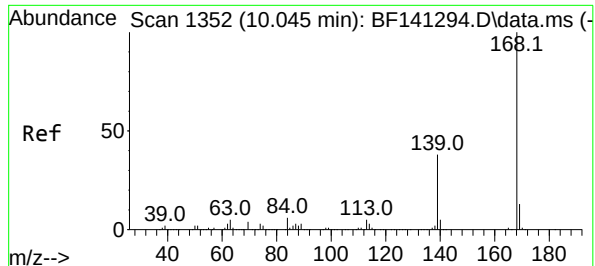
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#54
2,4-Dinitrophenol
Concen: 43.990 ng
RT: 9.892 min Scan# 1326
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Tgt Ion:184 Resp: 52193
Ion Ratio Lower Upper
184 100
63 81.2 54.1 81.1#
154 73.0 50.7 76.1





#55
Dibenzenofuran
Concen: 39.973 ng
RT: 10.033 min Scan# 1350
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

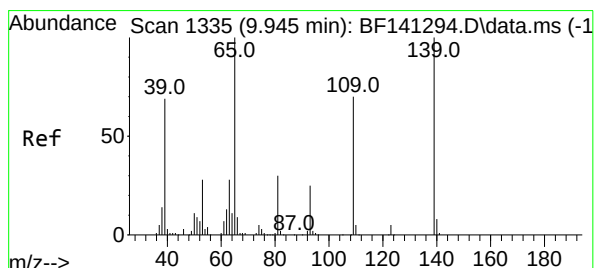
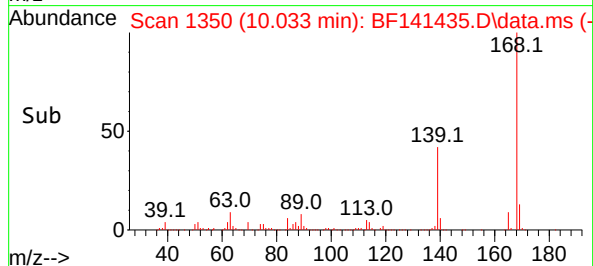
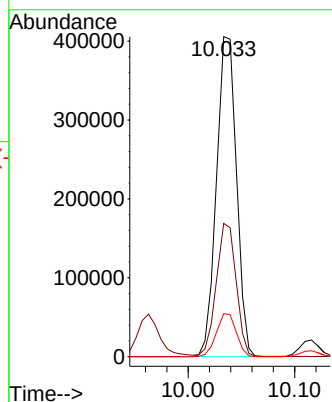
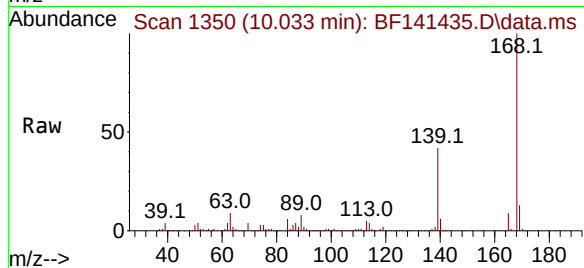
ClientSampleId :

SSTDCCC040

Tgt Ion:168 Resp: 529389
Ion Ratio Lower Upper
168 100
139 41.6 30.6 46.0
169 13.4 10.8 16.2

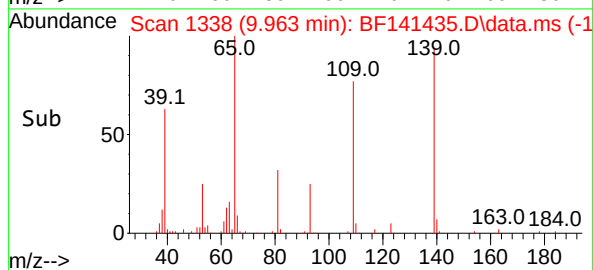
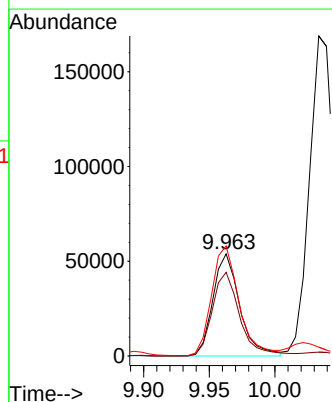
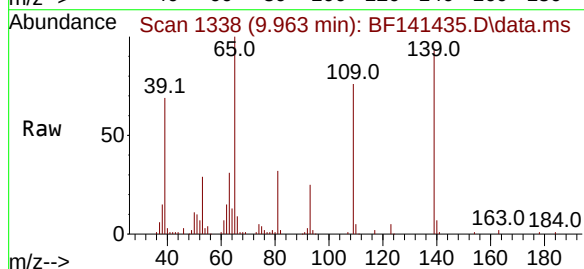
Manual Integrations
APPROVED

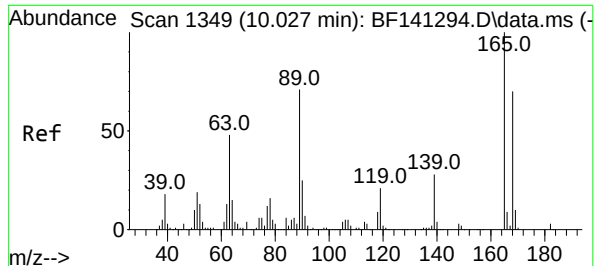
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#56
4-Nitrophenol
Concen: 41.844 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.006 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Tgt Ion:139 Resp: 76553
Ion Ratio Lower Upper
139 100
109 82.0 50.2 90.2
65 107.8 80.6 120.6





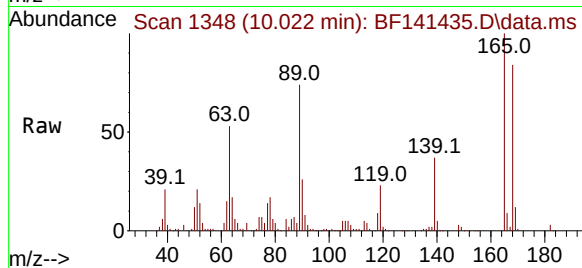
#57
2,4-Dinitrotoluene
Concen: 42.144 ng
RT: 10.022 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

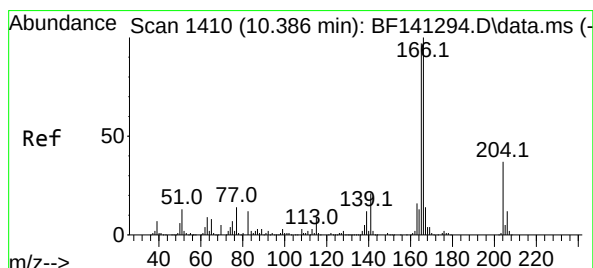
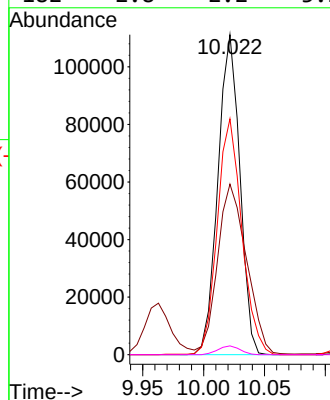
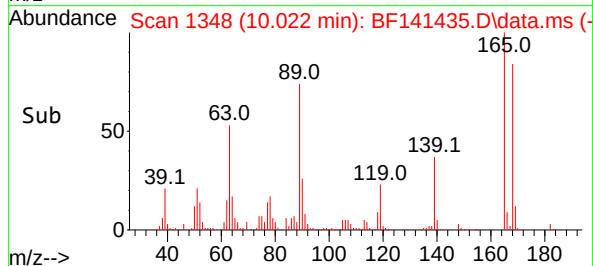
SSTDCCC040



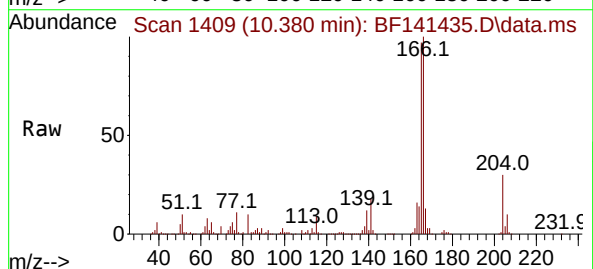
Tgt Ion:165 Resp: 13926
Ion Ratio Lower Upper
165 100
63 53.3 39.2 58.8
89 73.7 56.9 85.3
182 2.8 2.2 3.2

Manual Integrations
APPROVED

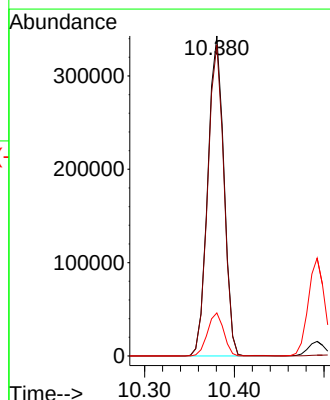
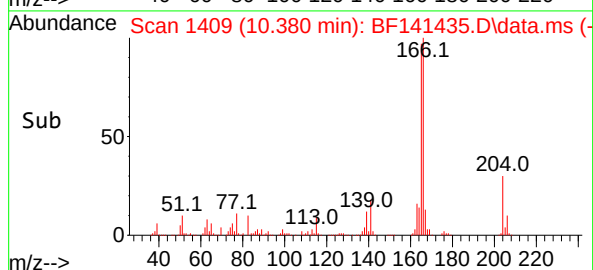
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

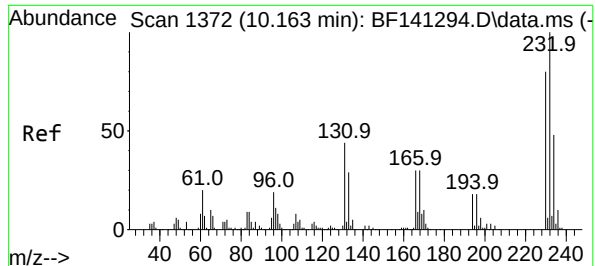


#58
Fluorene
Concen: 41.573 ng
RT: 10.380 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02



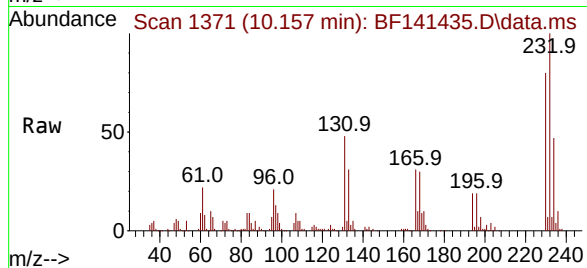
Tgt Ion:166 Resp: 427075
Ion Ratio Lower Upper
166 100
165 97.3 77.5 116.3
167 13.5 10.9 16.3





#59
2,3,4,6-Tetrachlorophenol
Concen: 42.052 ng
RT: 10.157 min Scan# 1371
Delta R.T. -0.006 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

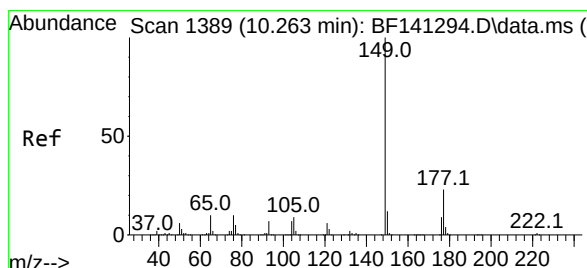
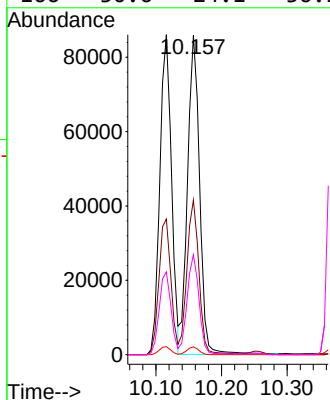
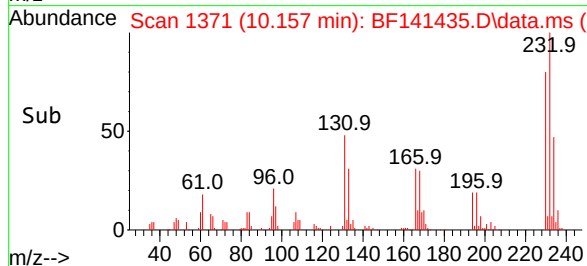
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



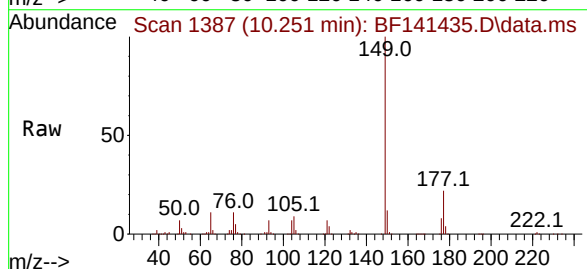
Tgt Ion:232 Resp: 109120
Ion Ratio Lower Upper
232 100
131 48.6 36.4 54.6
130 2.4 1.9 2.9
166 30.6 24.1 36.1

Manual Integrations
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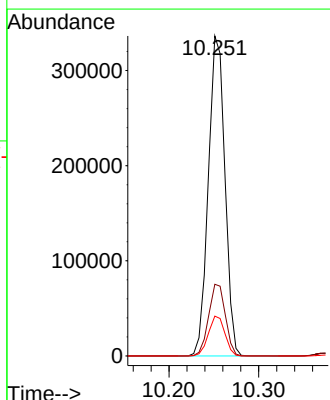
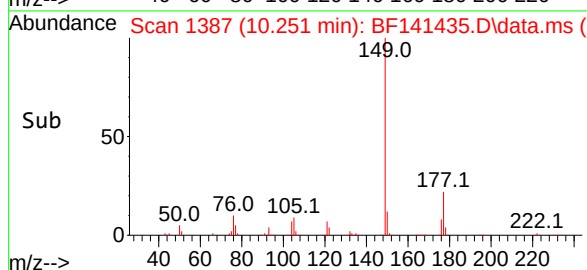
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

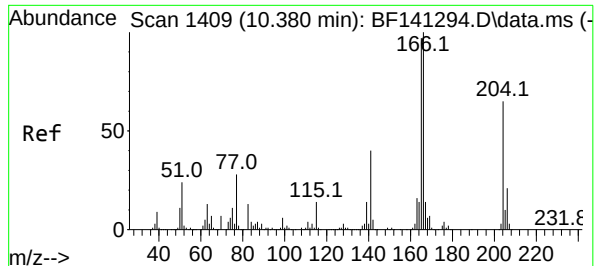


#60
Diethylphthalate
Concen: 40.510 ng
RT: 10.251 min Scan# 1387
Delta R.T. -0.018 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02



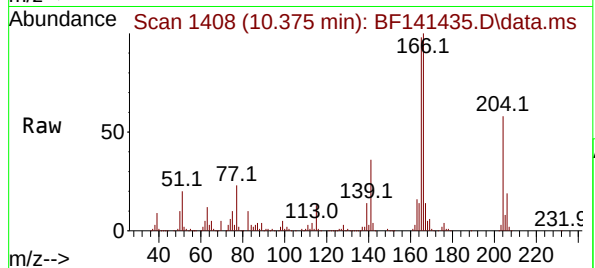
Tgt Ion:149 Resp: 431776
Ion Ratio Lower Upper
149 100
177 22.4 18.5 27.7
150 12.5 10.0 15.0





#61
4-Chlorophenyl-phenylether
Concen: 41.761 ng
RT: 10.375 min Scan# 1409
Delta R.T. -0.006 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

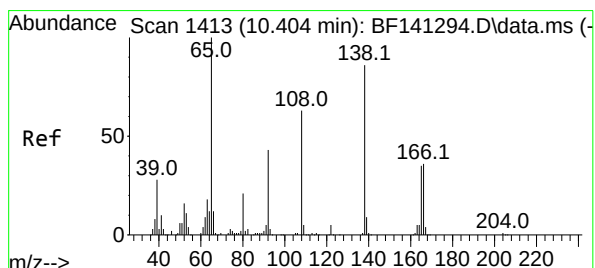
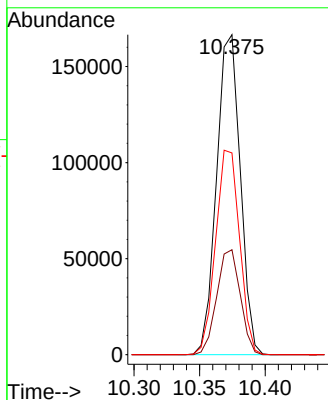
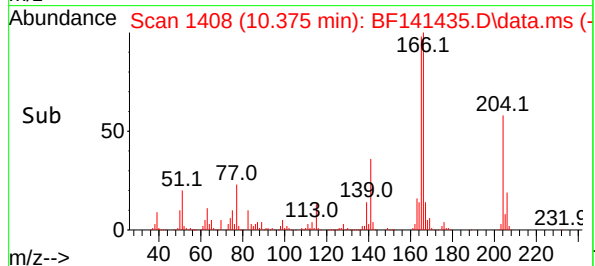
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



Tgt Ion:204 Resp: 20955
Ion Ratio Lower Upper
204 100
206 32.8 25.9 38.9
141 63.0 49.5 74.3

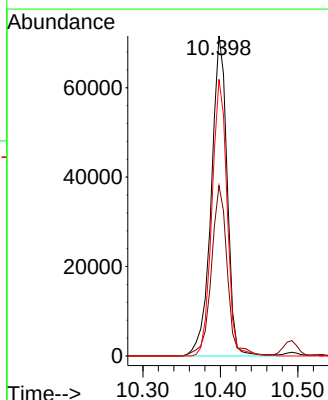
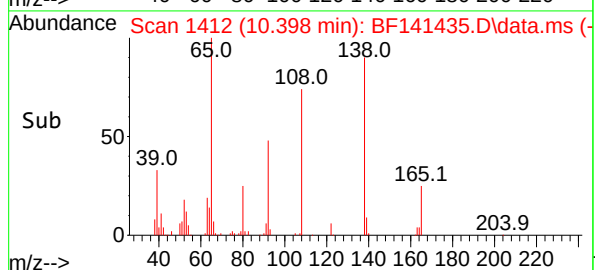
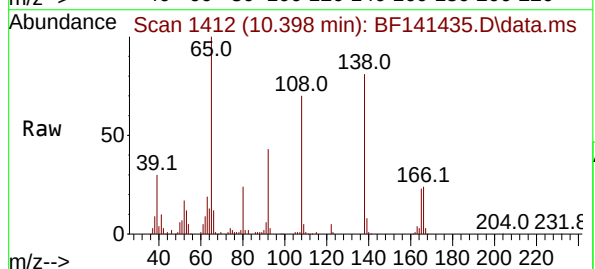
Manual Integrations
APPROVED

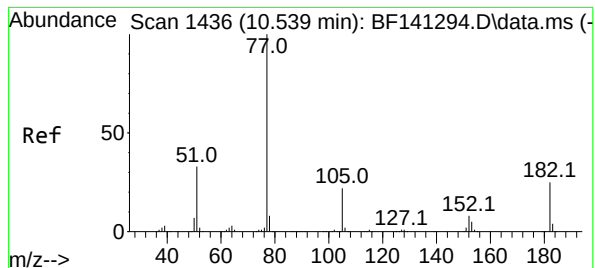
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#62
4-Nitroaniline
Concen: 41.554 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

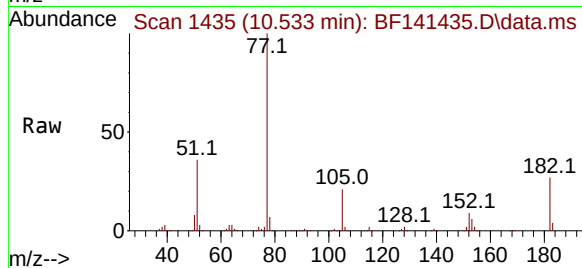
Tgt Ion:138 Resp: 102198
Ion Ratio Lower Upper
138 100
92 53.3 30.1 70.1
108 86.4 53.1 93.1





#63
Azobenzene
Concen: 38.055 ng
RT: 10.533 min Scan# 1436
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

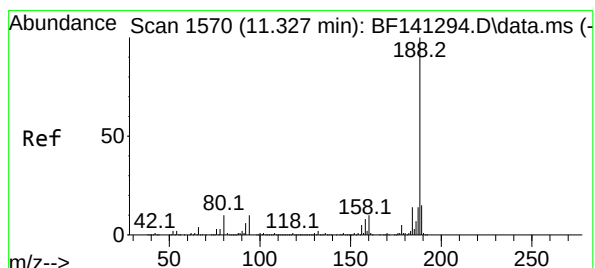
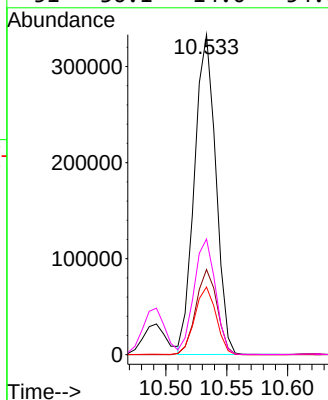
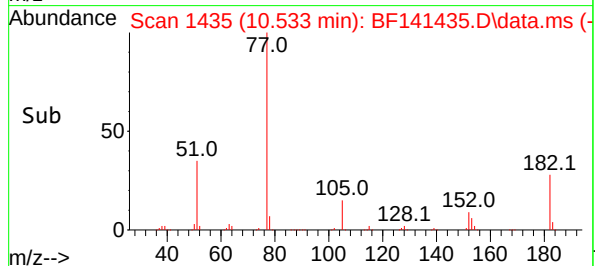
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



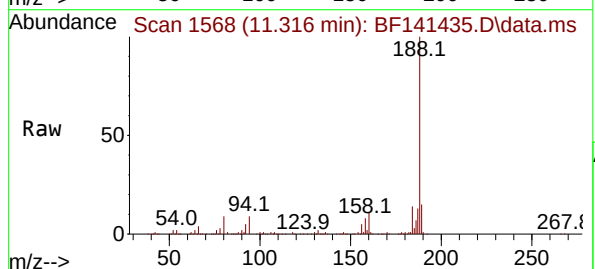
Tgt Ion: 77 Resp: 406009
Ion Ratio Lower Upper
77 100
182 26.6 5.1 45.1
105 21.2 1.8 41.8
51 36.1 14.0 54.0

Manual Integrations
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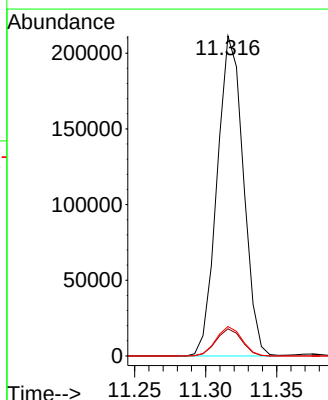
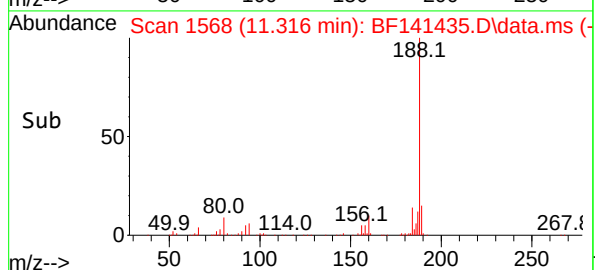
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

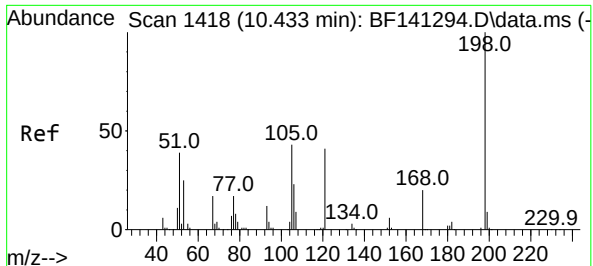


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02



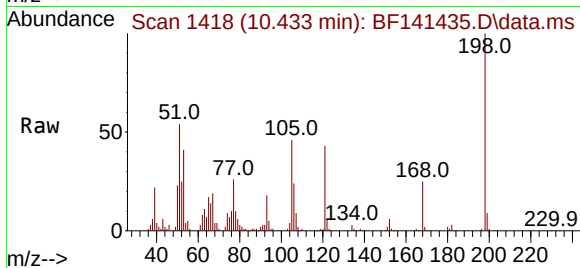
Tgt Ion:188 Resp: 271503
Ion Ratio Lower Upper
188 100
94 8.5 7.8 11.6
80 9.2 8.2 12.4





#65
4,6-Dinitro-2-methylphenol
Concen: 45.776 ng
RT: 10.433 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

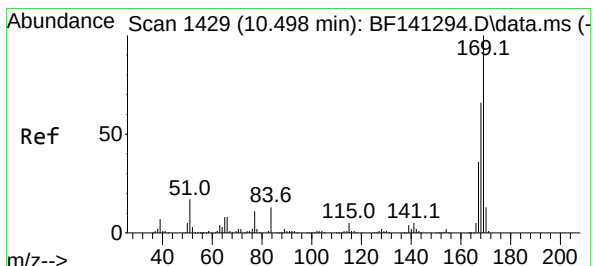
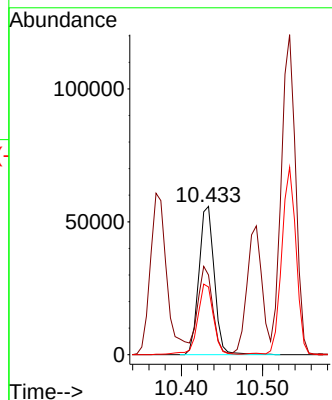
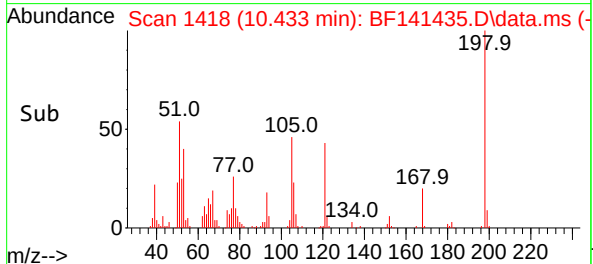
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



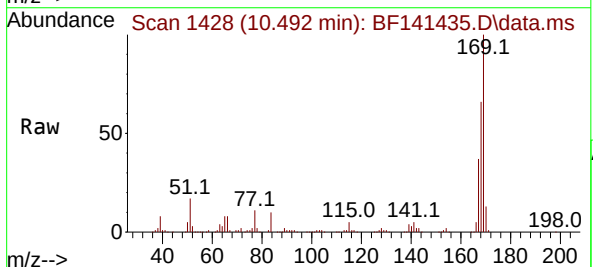
Tgt Ion:198 Resp: 73514
Ion Ratio Lower Upper
198 100
51 53.8 33.4 73.4
105 45.7 24.4 64.4

Manual Integrations
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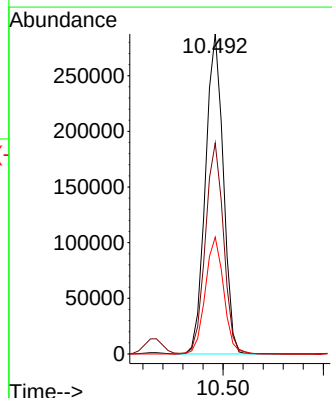
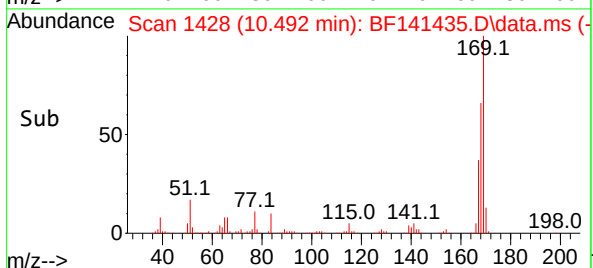
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

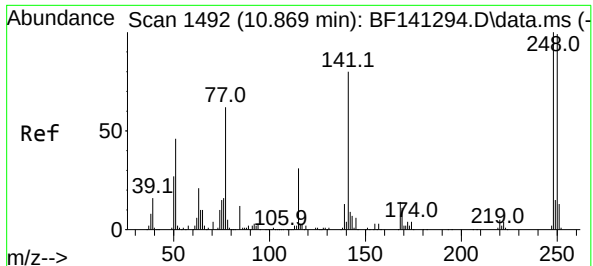


#66
n-Nitrosodiphenylamine
Concen: 40.601 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02



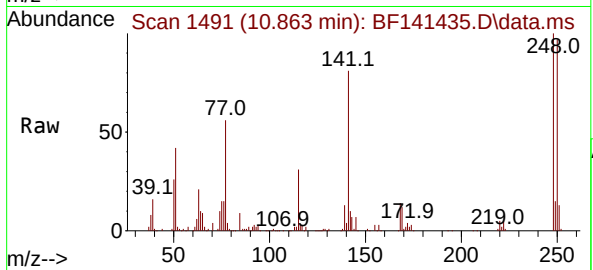
Tgt Ion:169 Resp: 356533
Ion Ratio Lower Upper
169 100
168 65.9 53.0 79.4
167 36.5 28.8 43.2





#67
4-Bromophenyl-phenylether
Concen: 41.249 ng
RT: 10.863 min Scan# 1491
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

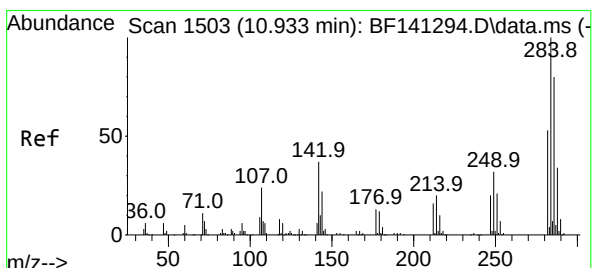
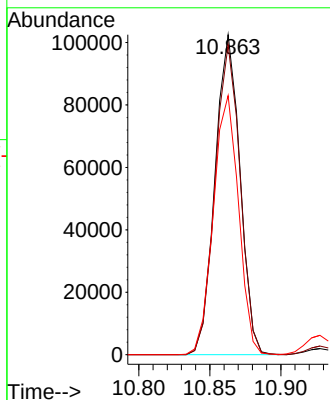
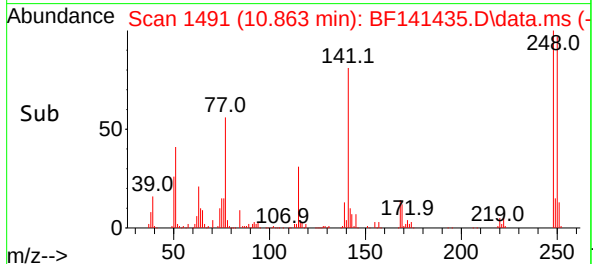
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



Tgt Ion:248 Resp: 125379
Ion Ratio Lower Upper
248 100
250 96.9 79.0 118.4
141 81.0 63.7 95.5

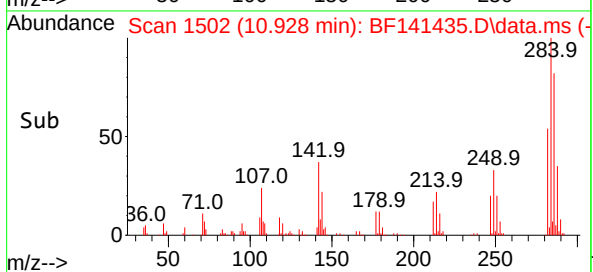
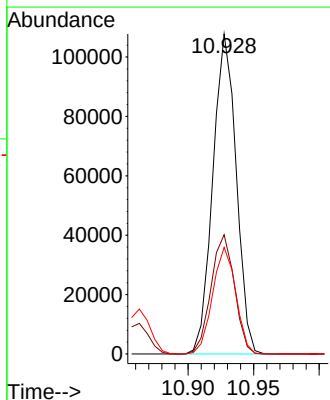
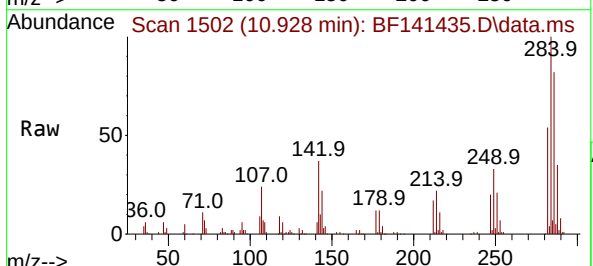
Manual Integrations
APPROVED

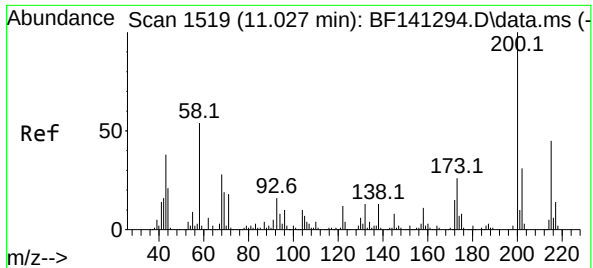
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#68
Hexachlorobenzene
Concen: 41.354 ng
RT: 10.928 min Scan# 1502
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

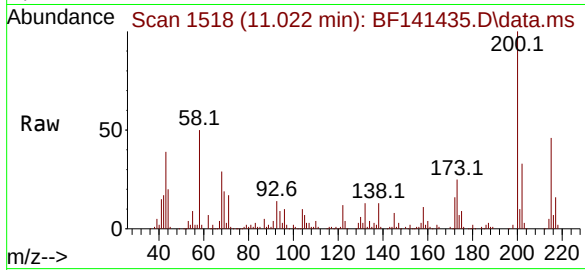
Tgt Ion:284 Resp: 133335
Ion Ratio Lower Upper
284 100
142 37.2 29.5 44.3
249 33.3 25.4 38.2





#69
Atrazine
Concen: 37.040 ng
RT: 11.022 min Scan# 1518
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

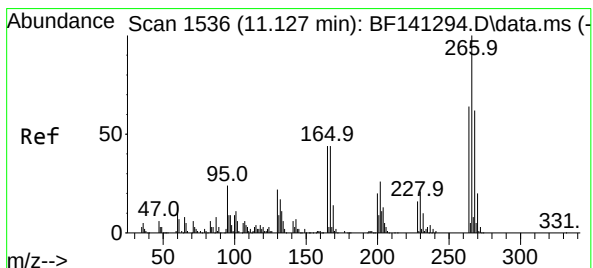
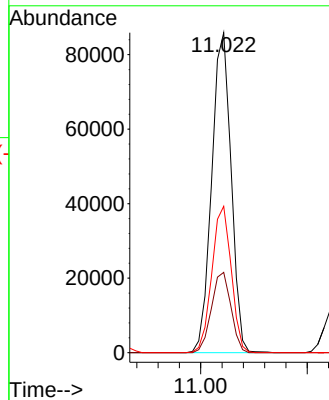
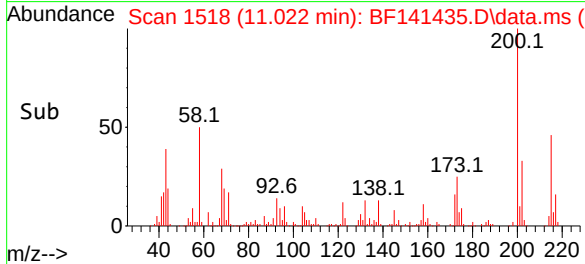
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



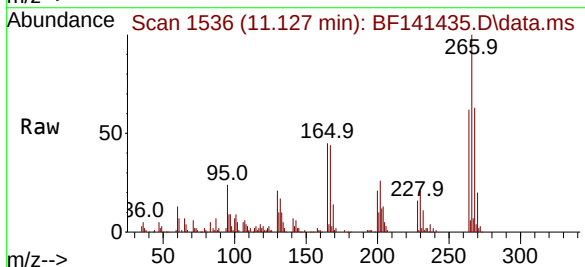
Tgt Ion:200 Resp: 10875
Ion Ratio Lower Upper
200 100
173 25.1 5.9 45.9
215 45.7 25.2 65.2

Manual Integrations
APPROVED

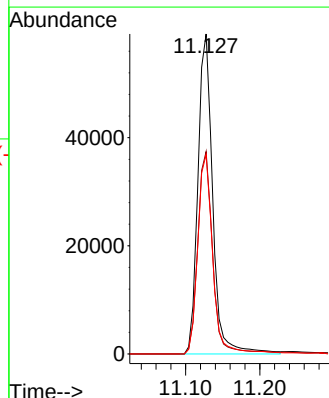
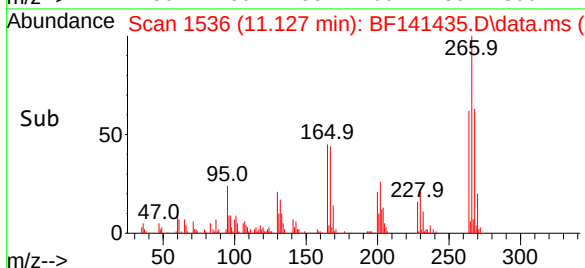
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

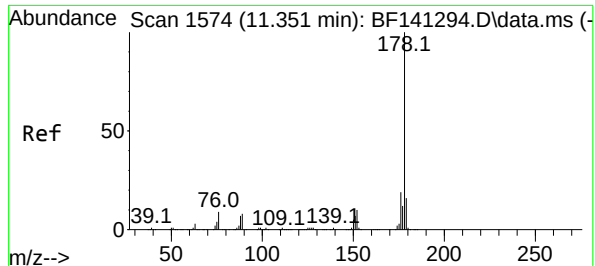


#70
Pentachlorophenol
Concen: 43.436 ng
RT: 11.127 min Scan# 1536
Delta R.T. -0.006 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02



Tgt Ion:266 Resp: 82010
Ion Ratio Lower Upper
266 100
268 63.2 49.9 74.9
264 62.3 51.0 76.4





#71

Phenanthrene

Concen: 41.476 ng

RT: 11.345 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:178 Resp: 60531

Ion Ratio Lower Upper

178 100

176 19.4 15.3 22.9

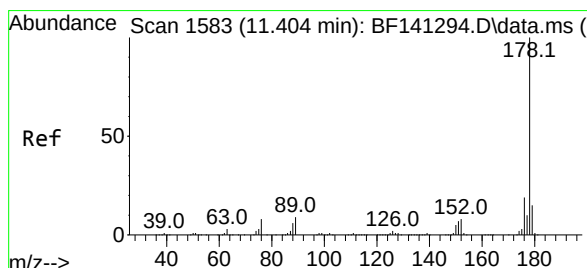
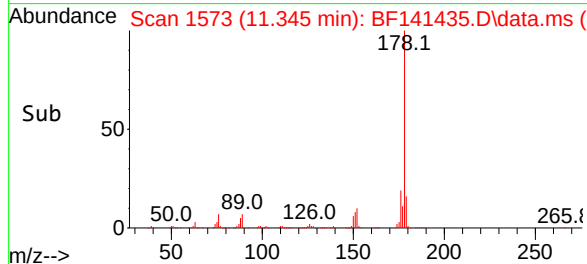
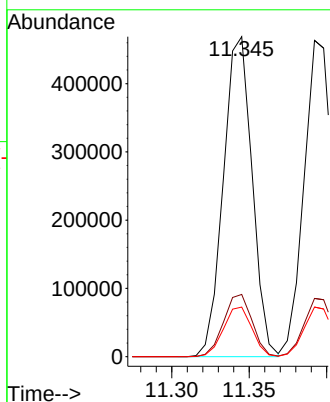
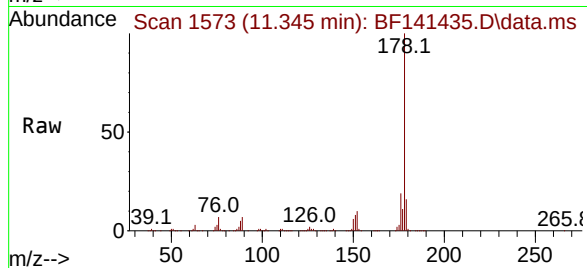
179 15.5 12.5 18.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#72

Anthracene

Concen: 41.812 ng

RT: 11.392 min Scan# 1581

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

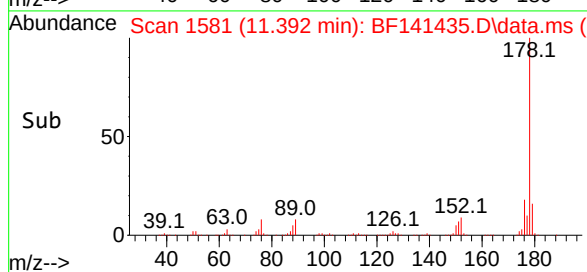
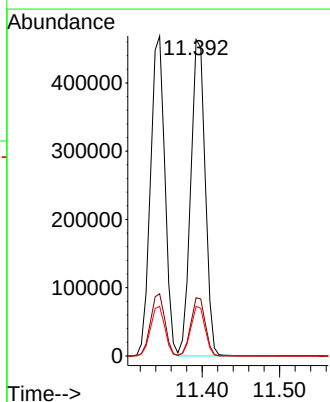
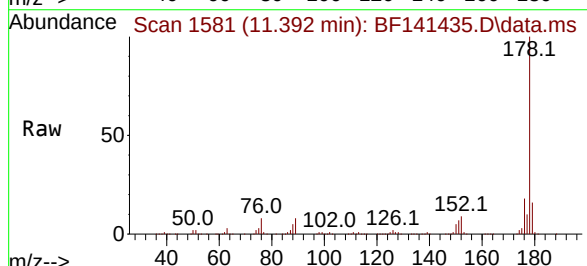
Tgt Ion:178 Resp: 597915

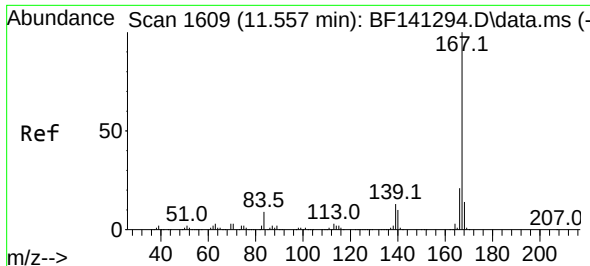
Ion Ratio Lower Upper

178 100

176 18.4 15.0 22.6

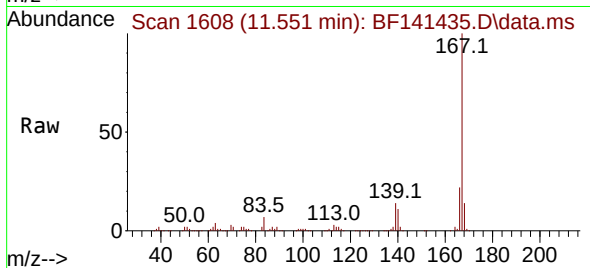
179 15.7 12.3 18.5





#73
 Carbazole
 Concen: 43.048 ng
 RT: 11.551 min Scan# 1608
 Delta R.T. -0.006 min
 Lab File: BF141435.D
 Acq: 05 Feb 2025 10:02

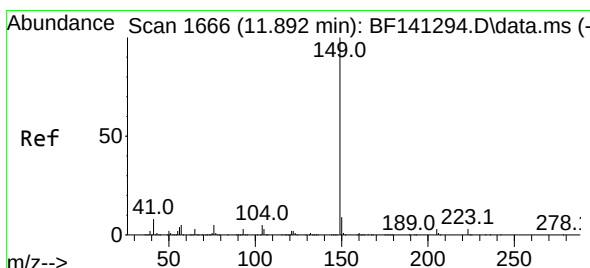
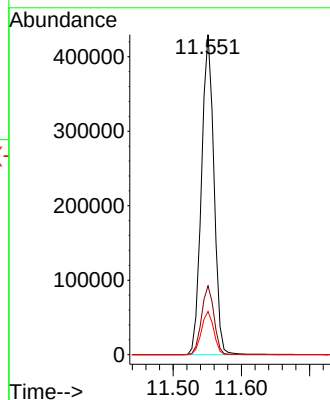
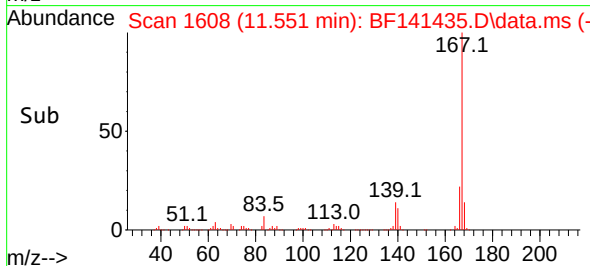
Instrument :
 BNA_F
 ClientSampleId :
 SSTDCCC040



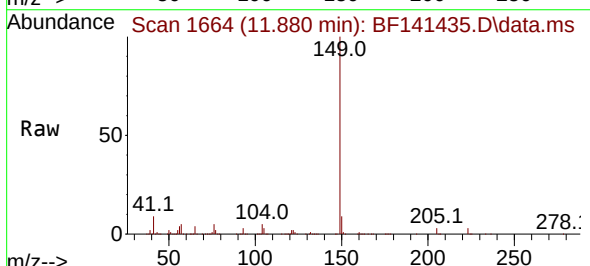
Tgt Ion:167 Resp: 54585
 Ion Ratio Lower Upper
 167 100
 166 21.5 17.0 25.6
 139 13.5 10.6 16.0

Manual Integrations
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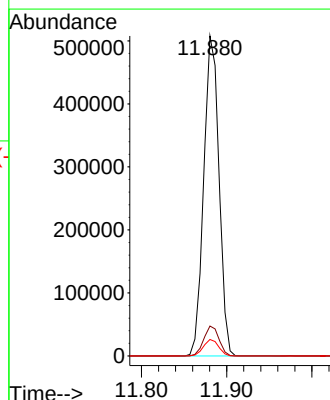
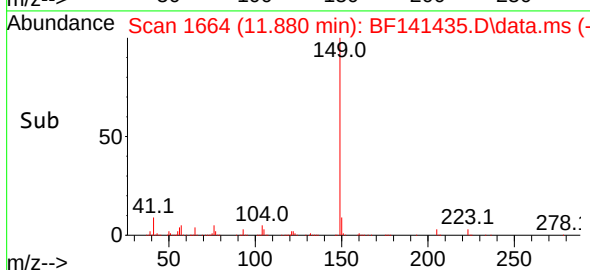
Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :mohammad ahmed 02/06/2025

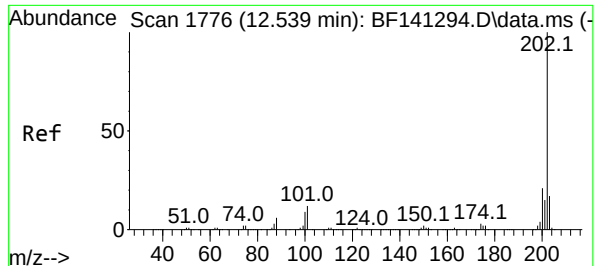


#74
 Di-n-butylphthalate
 Concen: 41.155 ng
 RT: 11.880 min Scan# 1664
 Delta R.T. -0.012 min
 Lab File: BF141435.D
 Acq: 05 Feb 2025 10:02



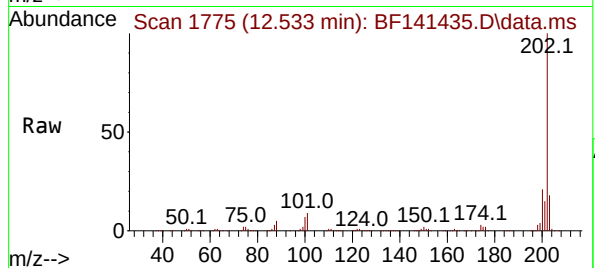
Tgt Ion:149 Resp: 632426
 Ion Ratio Lower Upper
 149 100
 150 9.3 7.4 11.2
 104 5.2 3.9 5.9





#75
Fluoranthene
Concen: 43.486 ng
RT: 12.533 min Scan# 1775
Delta R.T. -0.006 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

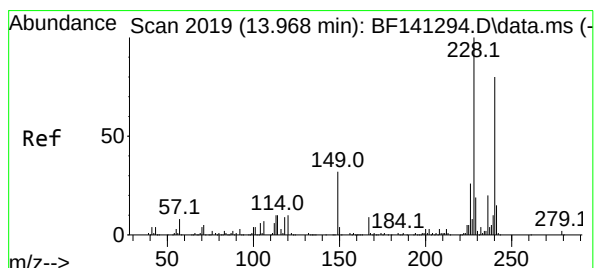
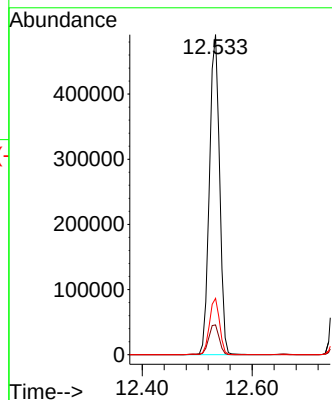
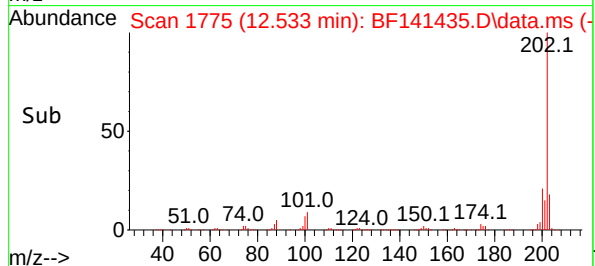
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



Tgt Ion:202 Resp: 626640
Ion Ratio Lower Upper
202 100
101 9.3 0.0 31.7
203 17.6 0.0 37.5

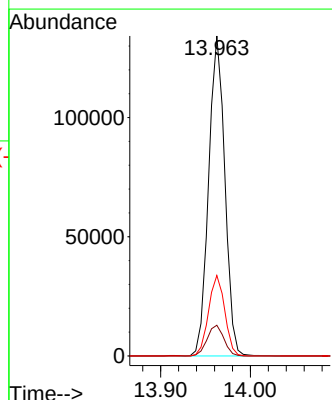
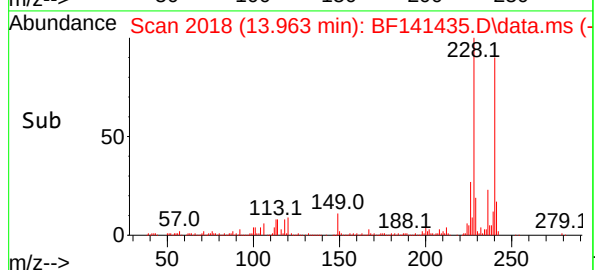
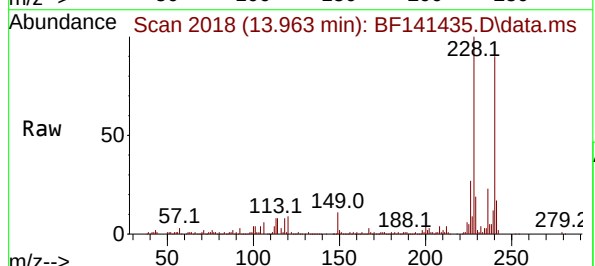
Manual Integrations
APPROVED

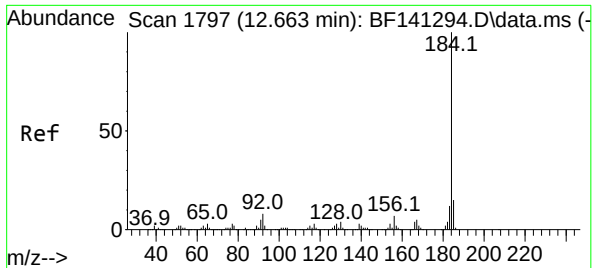
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Tgt Ion:240 Resp: 168458
Ion Ratio Lower Upper
240 100
120 9.6 10.0 15.0#
236 25.2 19.7 29.5





#77

Benzidine

Concen: 38.432 ng

RT: 12.657 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

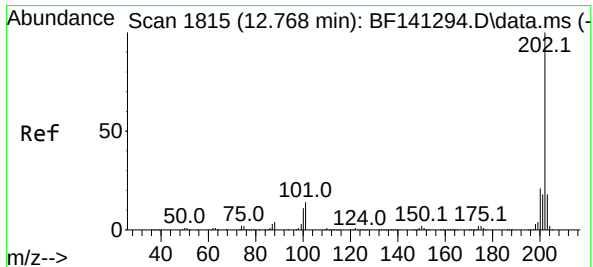
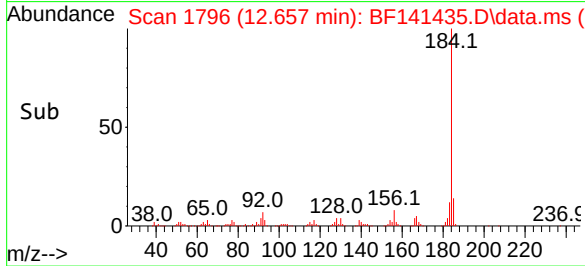
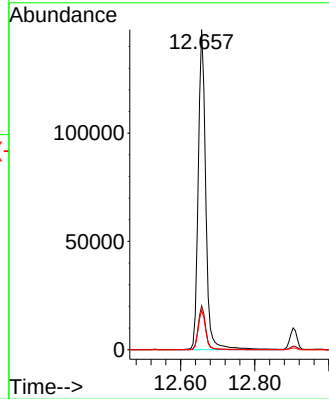
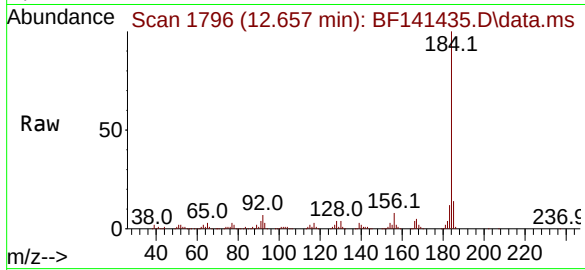
SSTDCCC040

Tgt Ion:184	Resp: 207554
Ion Ratio	Lower Upper
184	100
185	13.7 11.9 17.9
183	12.3 9.5 14.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#78

Pyrene

Concen: 39.047 ng

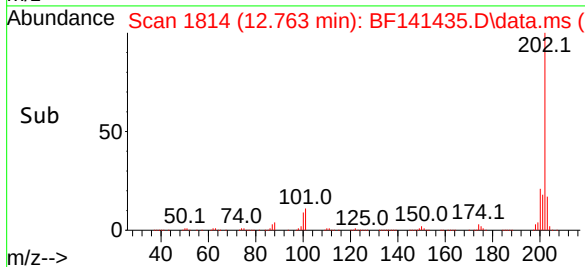
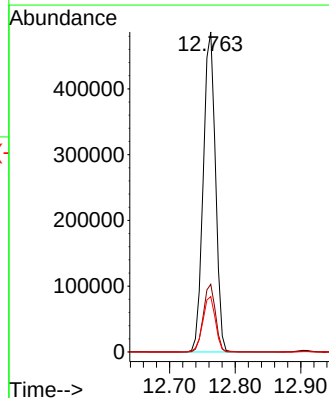
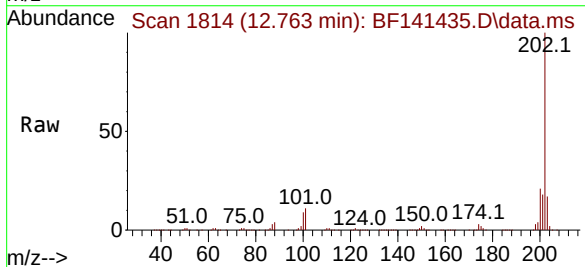
RT: 12.763 min Scan# 1814

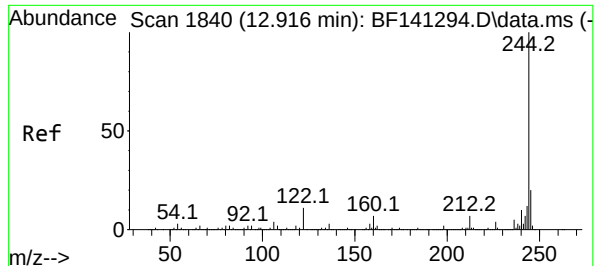
Delta R.T. -0.006 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Tgt Ion:202	Resp: 631407
Ion Ratio	Lower Upper
202	100
200	21.2 17.0 25.4
203	17.3 14.3 21.5





#79

Terphenyl-d14

Concen: 79.581 ng

RT: 12.904 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:244 Resp: 86928

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

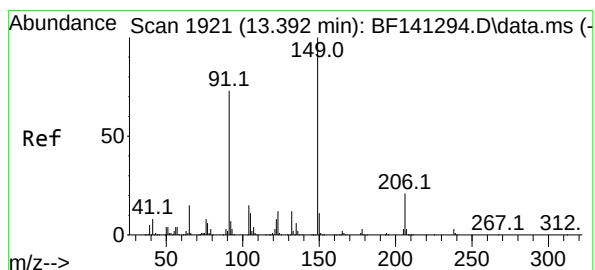
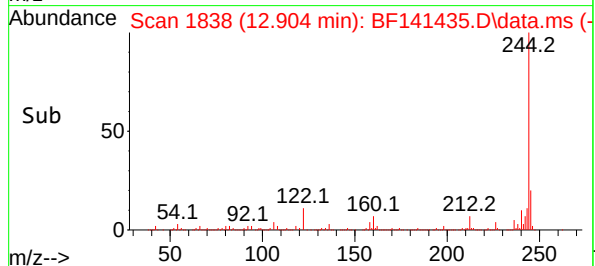
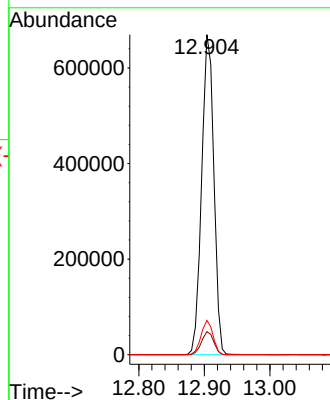
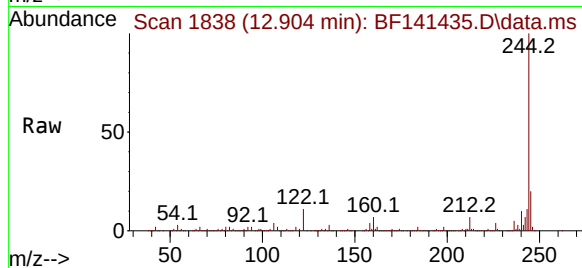
122 10.7 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#80

Butylbenzylphthalate

Concen: 39.778 ng

RT: 13.380 min Scan# 1919

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

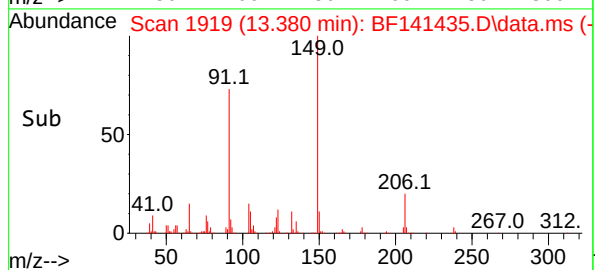
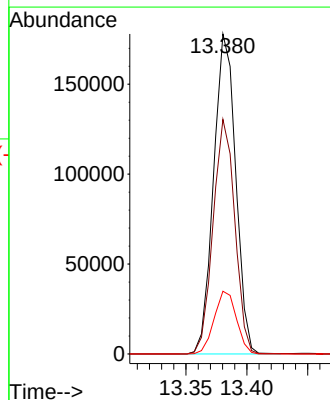
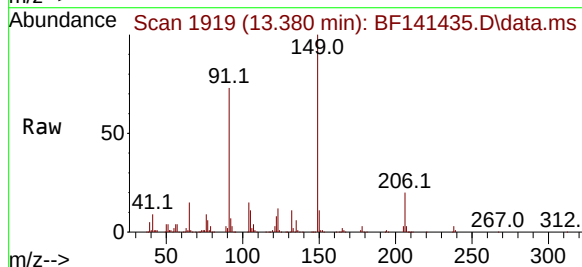
Tgt Ion:149 Resp: 224717

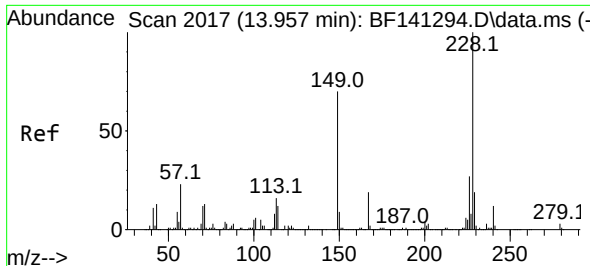
Ion Ratio Lower Upper

149 100

91 73.3 58.6 87.8

206 19.6 16.7 25.1





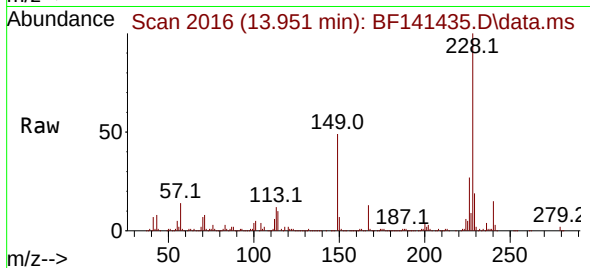
#81
Benzo(a)anthracene
Concen: 37.964 ng
RT: 13.951 min Scan# 2010
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

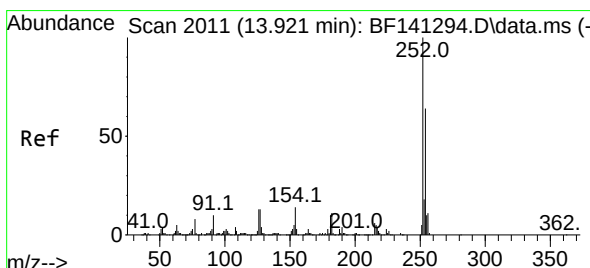
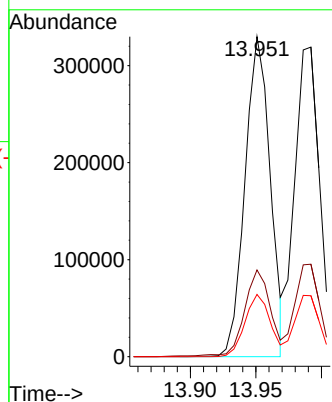
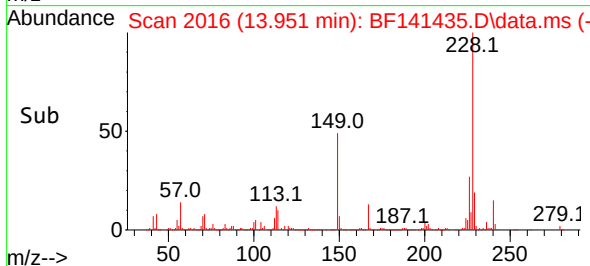
SSTDCCC040



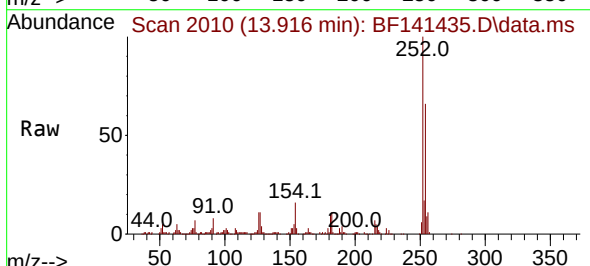
Tgt Ion:228 Resp: 441320
Ion Ratio Lower Upper
228 100
226 27.1 21.4 32.2
229 19.5 15.5 23.3

Manual Integrations
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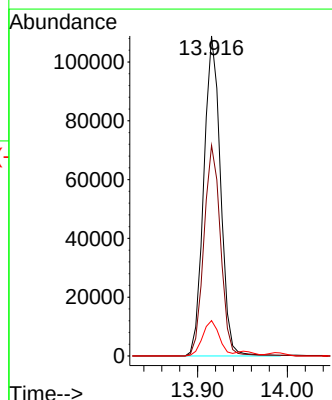
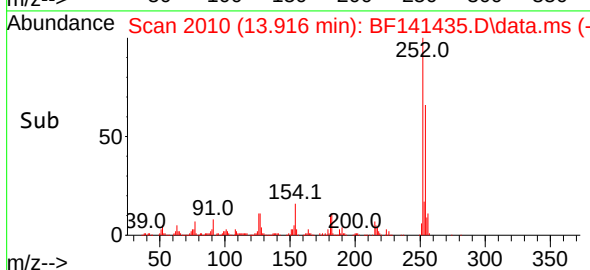
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

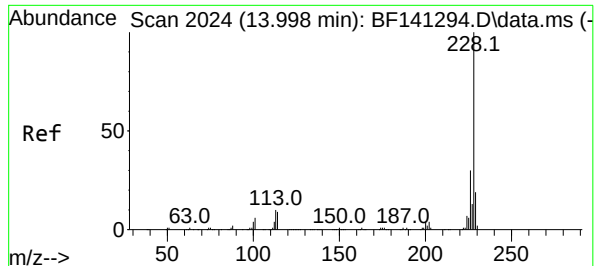


#82
3,3'-Dichlorobenzidine
Concen: 38.153 ng
RT: 13.916 min Scan# 2010
Delta R.T. -0.012 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02



Tgt Ion:252 Resp: 141060
Ion Ratio Lower Upper
252 100
254 65.8 51.3 76.9
126 11.0 10.0 15.0





#83

Chrysene

Concen: 39.290 ng

RT: 13.992 min Scan# 2015

Delta R.T. -0.006 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:228 Resp: 41857

Ion Ratio Lower Upper

228 100

226 29.9 24.1 36.1

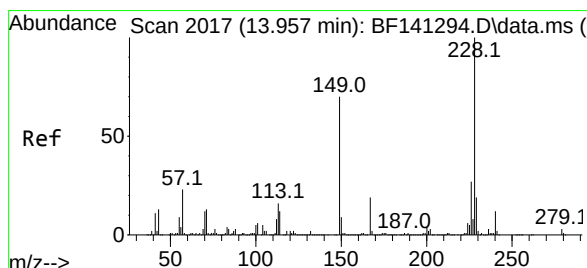
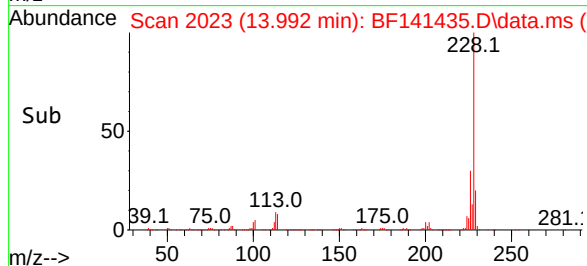
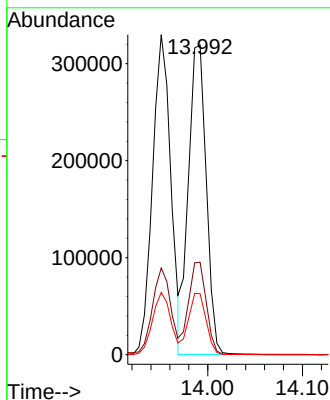
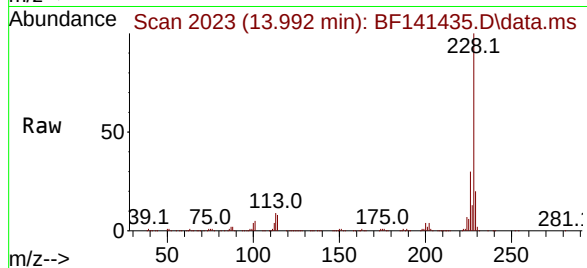
229 19.7 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 38.586 ng

RT: 13.945 min Scan# 2015

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

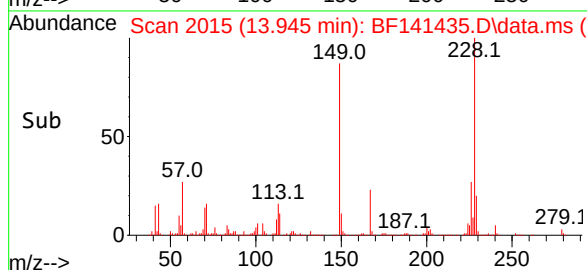
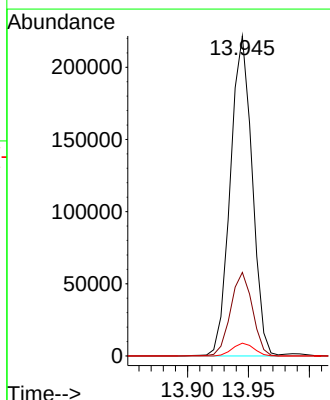
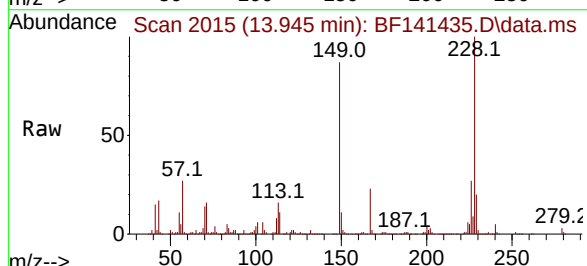
Tgt Ion:149 Resp: 276519

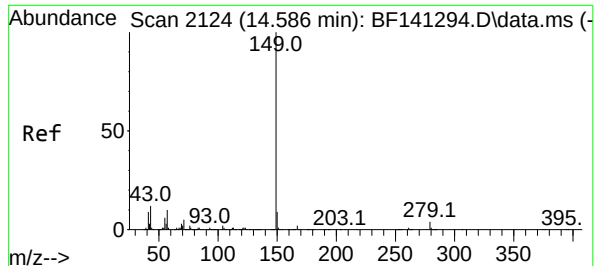
Ion Ratio Lower Upper

149 100

167 26.1 21.8 32.8

279 4.0 3.3 4.9





#85

Di-n-octyl phthalate

Concen: 37.624 ng

RT: 14.568 min Scan# 2121

Delta R.T. -0.018 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:149 Resp: 41877

Ion Ratio Lower Upper

149 100

167 1.6 1.3 1.9

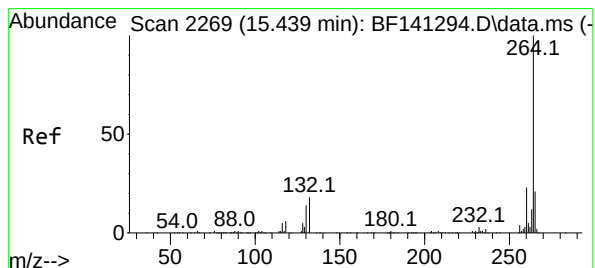
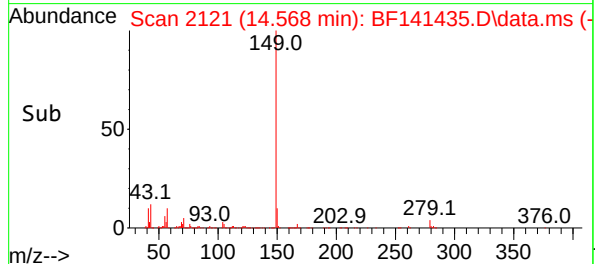
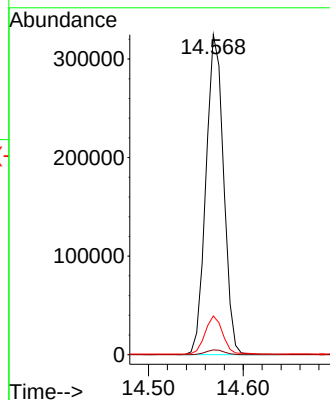
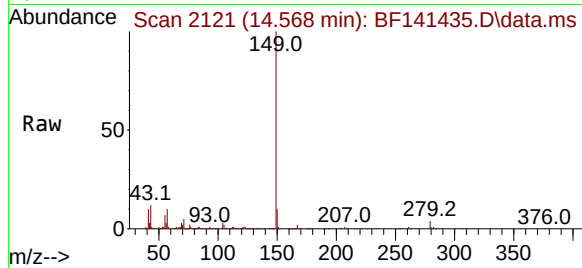
43 11.9 9.8 14.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.427 min Scan# 2267

Delta R.T. -0.012 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

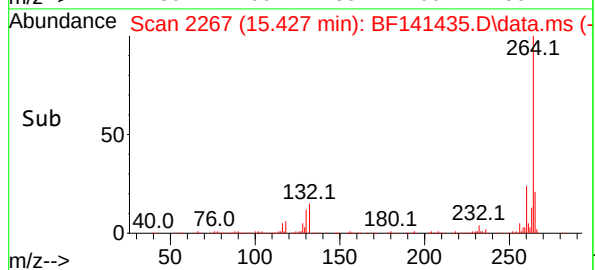
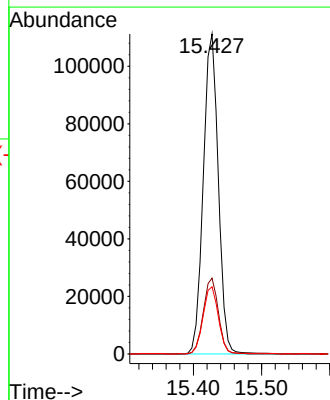
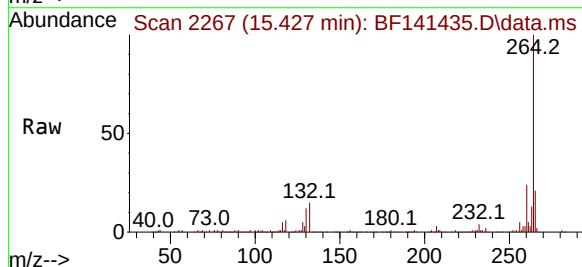
Tgt Ion:264 Resp: 170248

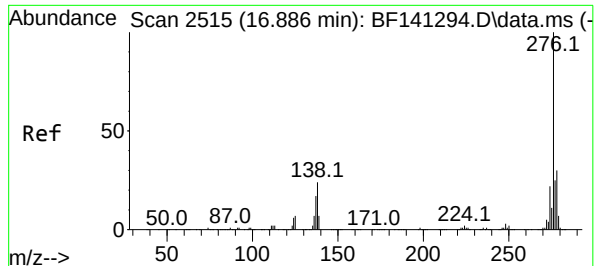
Ion Ratio Lower Upper

264 100

260 23.7 18.6 27.8

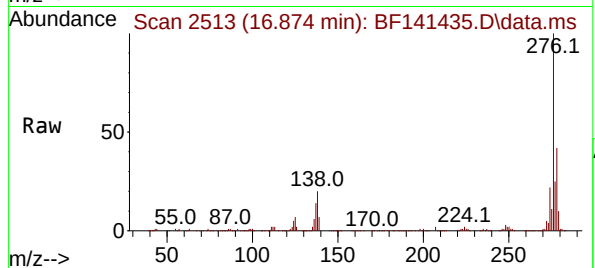
265 21.0 16.7 25.1





#87
Indeno(1,2,3-cd)pyrene
Concen: 43.712 ng
RT: 16.874 min Scan# 2195
Delta R.T. -0.024 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

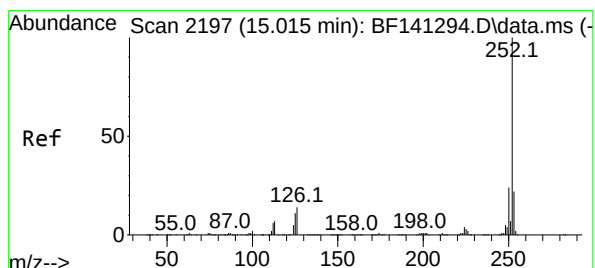
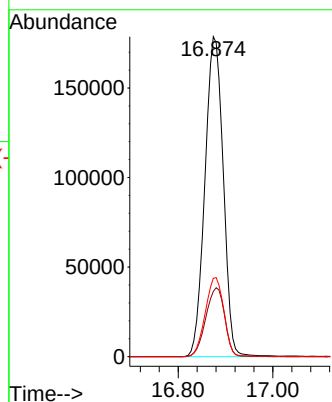
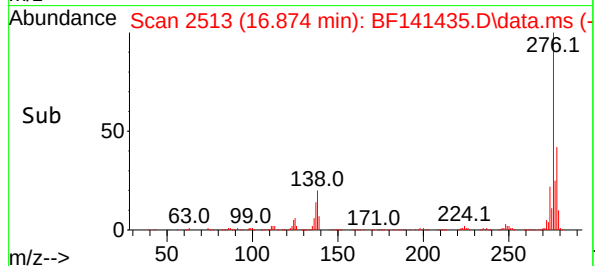
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



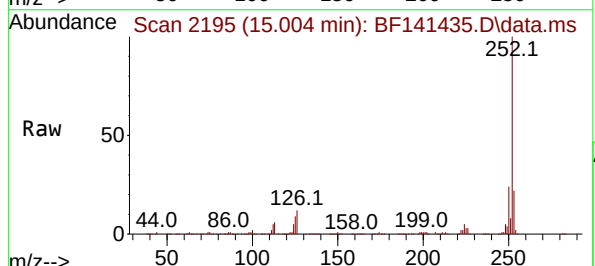
Tgt Ion: 276 Resp: 480324
Ion Ratio Lower Upper
276 100
138 22.3 21.7 32.5
277 25.2 20.3 30.5

Manual Integrations
APPROVED

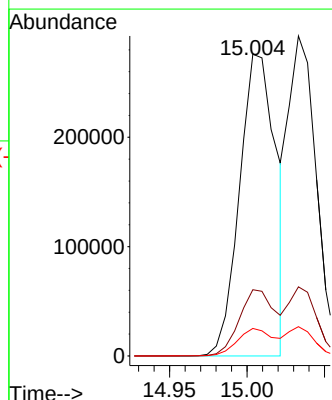
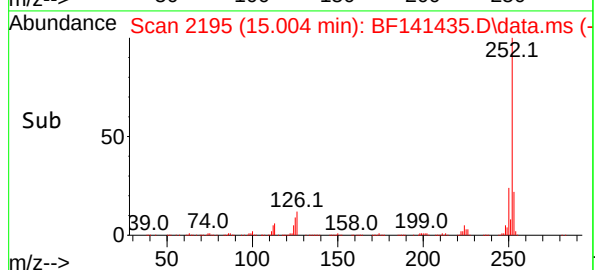
Reviewed By : Yogesh Patel 02/06/2025
Supervised By : mohammad ahmed 02/06/2025

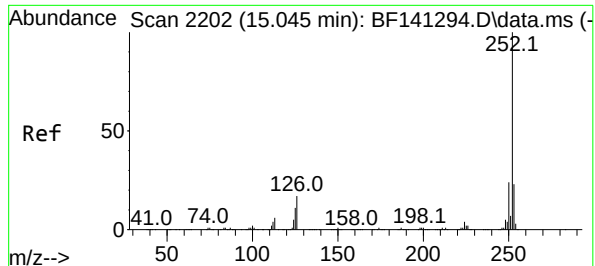


#88
Benzo(b)fluoranthene
Concen: 42.180 ng
RT: 15.004 min Scan# 2195
Delta R.T. -0.018 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02



Tgt Ion: 252 Resp: 451713
Ion Ratio Lower Upper
252 100
253 21.9 17.4 26.2
125 9.1 8.6 12.8





#89

Benzo(k)fluoranthene

Concen: 38.829 ng

RT: 15.033 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

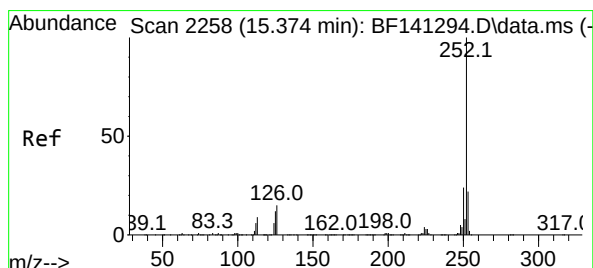
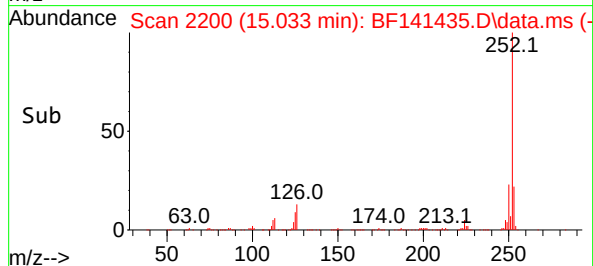
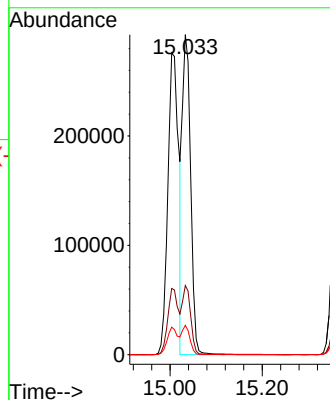
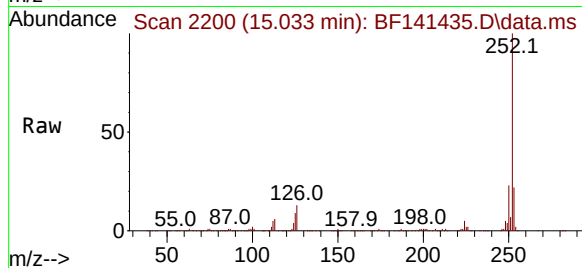
Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.6	17.6	26.4
125	9.1	8.4	12.6

Manual Integrations
APPROVEDReviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

#90

Benzo(a)pyrene

Concen: 41.472 ng

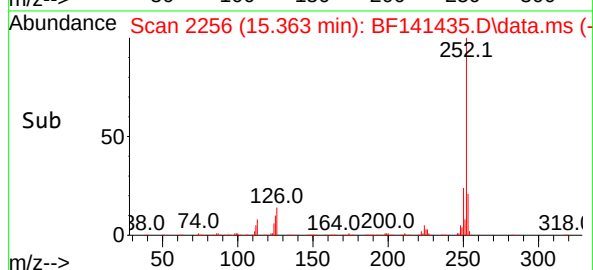
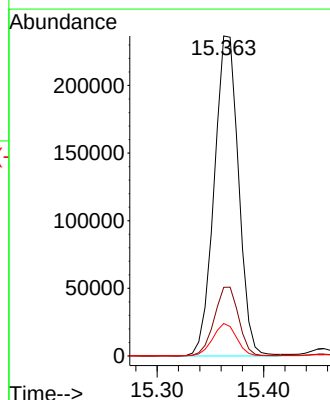
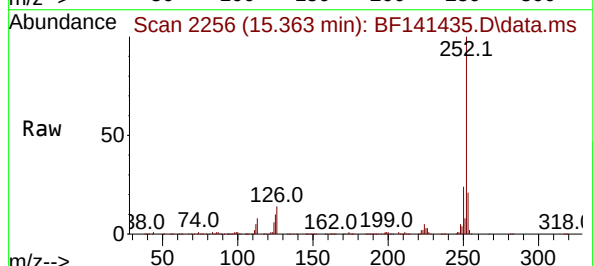
RT: 15.363 min Scan# 2256

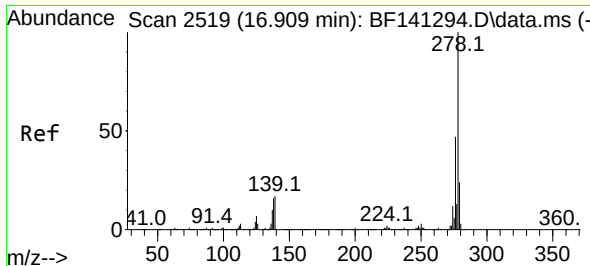
Delta R.T. -0.018 min

Lab File: BF141435.D

Acq: 05 Feb 2025 10:02

Tgt Ion	Ratio	Lower	Upper
252	100		
253	21.5	17.2	25.8
125	10.2	9.4	14.2





#91
Dibenzo(a,h)anthracene
Concen: 43.654 ng
RT: 16.892 min Scan# 2519
Delta R.T. -0.030 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Instrument :

BNA_F

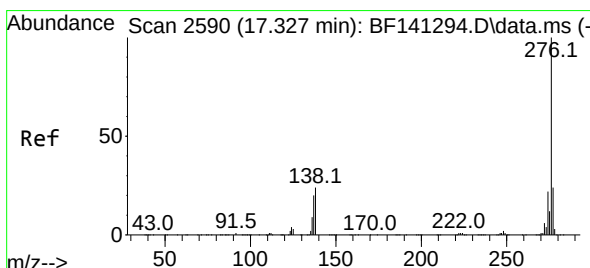
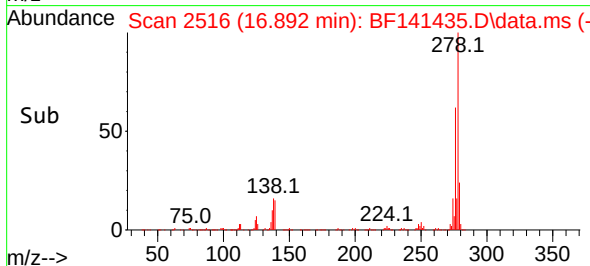
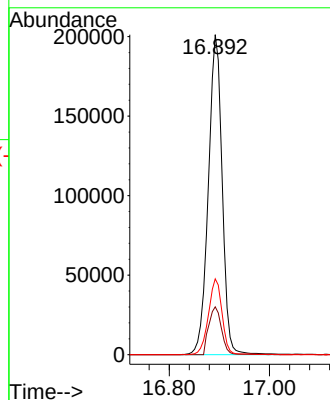
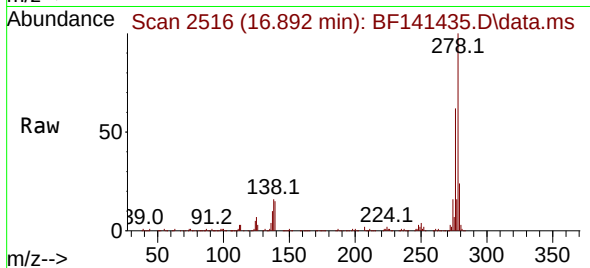
ClientSampleId :

SSTDCCC040

Tgt Ion:	278	Resp:	38592
Ion Ratio	Lower	Upper	
278	100		
139	15.0	13.9	20.9
279	23.7	18.8	28.2

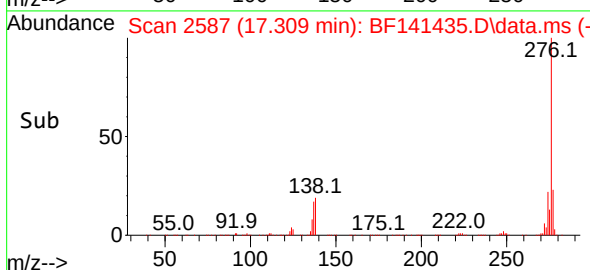
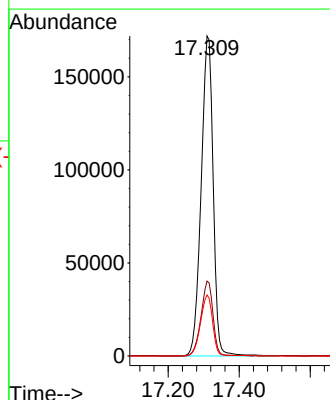
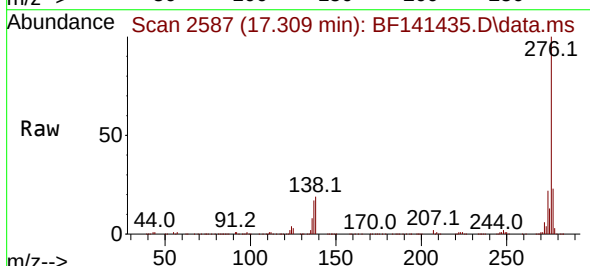
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#92
Benzo(g,h,i)perylene
Concen: 44.107 ng
RT: 17.309 min Scan# 2587
Delta R.T. -0.035 min
Lab File: BF141435.D
Acq: 05 Feb 2025 10:02

Tgt Ion:	276	Resp:	405442
Ion Ratio	Lower	Upper	
276	100		
277	23.4	19.2	28.8
138	19.1	19.0	28.4



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141435.D
Acq On : 05 Feb 2025 10:02
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 05 10:46:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	58	-0.01
2	1,4-Dioxane	0.573	0.500	12.7	54	-0.04
3	Pyridine	1.380	1.235	10.5	54	-0.04
4	n-Nitrosodimethylamine	0.789	0.860	-9.0	66	-0.06
5 S	2-Fluorophenol	1.303	1.295	0.6	62	0.00
6	Aniline	1.403	1.297	7.6	55	-0.02
7 S	Phenol-d6	1.657	1.600	3.4	61	0.00
8	2-Chlorophenol	1.396	1.383	0.9	61	-0.01
9	Benzaldehyde	0.960	0.988	-2.9	64	-0.01
10 C	Phenol	1.757	1.663	5.4	58	0.00
11	bis(2-Chloroethyl)ether	1.347	1.263	6.2	59	-0.02
12	1,3-Dichlorobenzene	1.540	1.552	-0.8	63	-0.01
13 C	1,4-Dichlorobenzene	1.547	1.578	-2.0	63	-0.01
14	1,2-Dichlorobenzene	1.448	1.467	-1.3	63	-0.01
15	Benzyl Alcohol	1.133	1.197	-5.6	64	-0.01
16	2,2'-oxybis(1-Chloropropane	2.342	2.038	13.0	54	-0.01
17	2-Methylphenol	1.135	1.083	4.6	60	0.00
18	Hexachloroethane	0.571	0.582	-1.9	63	-0.01
19 P	n-Nitroso-di-n-propylamine	0.985	0.951	3.5	61	-0.02
20	3+4-Methylphenols	1.393	1.395	-0.1	62	0.00
21 I	Naphthalene-d8	1.000	1.000	0.0	57	-0.01
22	Acetophenone	0.475	0.493	-3.8	64	-0.01
23 S	Nitrobenzene-d5	0.379	0.396	-4.5	63	-0.01
24	Nitrobenzene	0.393	0.403	-2.5	61	-0.02
25	Isophorone	0.656	0.632	3.7	58	-0.01
26 C	2-Nitrophenol	0.185	0.191	-3.2	61	-0.01
27	2,4-Dimethylphenol	0.236	0.229	3.0	58	0.00
28	bis(2-Chloroethoxy)methane	0.418	0.393	6.0	57	-0.01
29 C	2,4-Dichlorophenol	0.289	0.297	-2.8	62	0.00
30	1,2,4-Trichlorobenzene	0.330	0.338	-2.4	63	-0.01
31	Naphthalene	1.057	1.058	-0.1	61	-0.01
32	Benzoic acid	0.217	0.218	-0.5	56	-0.03
33	4-Chloroaniline	0.358	0.335	6.4	56	-0.01
34 C	Hexachlorobutadiene	0.194	0.212	-9.3	67	0.00
35	Caprolactam	0.094	0.092	2.1	59	-0.03
36 C	4-Chloro-3-methylphenol	0.310	0.323	-4.2	64	0.00
37	2-Methylnaphthalene	0.672	0.670	0.3	61	-0.01
38	1-Methylnaphthalene	0.660	0.657	0.5	61	-0.01
39 I	Acenaphthene-d10	1.000	1.000	0.0	58	-0.01
40	1,2,4,5-Tetrachlorobenzene	0.569	0.579	-1.8	62	-0.01
41 P	Hexachlorocyclopentadiene	0.168	0.166	1.2	55	-0.01
42 S	2,4,6-Tribromophenol	0.183	0.197	-7.7	65	-0.01
43 C	2,4,6-Trichlorophenol	0.372	0.385	-3.5	61	0.00
44	2,4,5-Trichlorophenol	0.405	0.418	-3.2	64	0.00
45 S	2-Fluorobiphenyl	1.299	1.338	-3.0	65	-0.01
46	1,1'-Biphenyl	1.560	1.536	1.5	61	-0.01
47	2-Chloronaphthalene	1.216	1.222	-0.5	63	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
 Data File : BF141435.D
 Acq On : 05 Feb 2025 10:02
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 BNA_F
 LabSampleId :
 SSTDCCC040

Quant Time: Feb 05 10:46:53 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 29 17:41:25 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	0.382	0.396	-3.7	63	0.00
49	Acenaphthylene	1.702	1.696	0.4	61	-0.01
50	Dimethylphthalate	1.351	1.345	0.4	62	-0.01
51	2,6-Dinitrotoluene	0.314	0.319	-1.6	62	-0.01
52 C	Acenaphthene	1.216	1.232	-1.3	63	-0.01
53	3-Nitroaniline	0.307	0.309	-0.7	59	-0.01
54 P	2,4-Dinitrophenol	0.146	0.160	-9.6	63	-0.01
55	Dibenzofuran	1.627	1.626	0.1	62	-0.01
56 P	4-Nitrophenol	0.225	0.235	-4.4	60	0.00
57	2,4-Dinitrotoluene	0.406	0.428	-5.4	64	-0.01
58	Fluorene	1.262	1.312	-4.0	65	-0.01
59	2,3,4,6-Tetrachlorophenol	0.319	0.335	-5.0	63	0.00
60	Diethylphthalate	1.310	1.326	-1.2	62	-0.02
61	4-Chlorophenyl-phenylether	0.617	0.644	-4.4	65	0.00
62	4-Nitroaniline	0.302	0.314	-4.0	62	-0.02
63	Azobenzene	1.311	1.247	4.9	59	-0.01
64 I	Phenanthrene-d10	1.000	1.000	0.0	59	-0.01
65	4,6-Dinitro-2-methylphenol	0.118	0.135	-14.4	64	0.00
66 c	n-Nitrosodiphenylamine	0.647	0.657	-1.5	62	-0.01
67	4-Bromophenyl-phenylether	0.224	0.231	-3.1	63	-0.01
68	Hexachlorobenzene	0.238	0.246	-3.4	64	-0.01
69	Atrazine	0.216	0.200	7.4	56	-0.01
70 C	Pentachlorophenol	0.139	0.151	-8.6	62	0.00
71	Phenanthrene	1.075	1.115	-3.7	64	0.00
72	Anthracene	1.053	1.101	-4.6	65	-0.01
73	Carbazole	0.934	1.005	-7.6	66	0.00
74	Di-n-butylphthalate	1.132	1.165	-2.9	64	-0.01
75 C	Fluoranthene	1.062	1.154	-8.7	67	0.00
76 I	Chrysene-d12	1.000	1.000	0.0	65	-0.01
77	Benzidine	0.641	0.616	3.9	55	0.00
78	Pyrene	1.920	1.874	2.4	69	0.00
79 S	Terphenyl-d14	1.297	1.290	0.5	71	-0.01
80	Butylbenzylphthalate	0.671	0.667	0.6	69	-0.01
81	Benzo(a)anthracene	1.380	1.310	5.1	67	-0.01
82	3,3'-Dichlorobenzidine	0.439	0.419	4.6	65	-0.01
83	Chrysene	1.265	1.242	1.8	71	0.00
84	Bis(2-ethylhexyl)phthalate	0.851	0.821	3.5	68	-0.01
85 c	Di-n-octyl phthalate	1.321	1.243	5.9	65	-0.02
86 I	Perylene-d12	1.000	1.000	0.0	61	-0.01
87	Indeno(1,2,3-cd)pyrene	1.291	1.411	-9.3	68	-0.02
88	Benzo(b)fluoranthene	1.258	1.327	-5.5	72	-0.02
89	Benzo(k)fluoranthene	1.114	1.082	2.9	61	-0.02
90 C	Benzo(a)pyrene	1.063	1.102	-3.7	66	-0.02
91	Dibenzo(a,h)anthracene	1.039	1.133	-9.0	68	-0.03
92	Benzo(g,h,i)perylene	1.080	1.191	-10.3	70	-0.04

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141435.D
Acq On : 05 Feb 2025 10:02
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 05 10:46:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141435.D
Acq On : 05 Feb 2025 10:02
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 05 10:46:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	58	-0.01
2	1,4-Dioxane	40.000	34.885	12.8	54	-0.04
3	Pyridine	40.000	35.776	10.6	54	-0.04
4	n-Nitrosodimethylamine	40.000	43.622	-9.1	66	-0.06
5 S	2-Fluorophenol	80.000	79.549	0.6	62	0.00
6	Aniline	40.000	36.974	7.6	55	-0.02
7 S	Phenol-d6	80.000	77.255	3.4	61	0.00
8	2-Chlorophenol	40.000	39.605	1.0	61	-0.01
9	Benzaldehyde	40.000	41.171	-2.9	64	-0.01
10 C	Phenol	40.000	37.854	5.4	58	0.00
11	bis(2-Chloroethyl)ether	40.000	37.520	6.2	59	-0.02
12	1,3-Dichlorobenzene	40.000	40.328	-0.8	63	-0.01
13 C	1,4-Dichlorobenzene	40.000	40.809	-2.0	63	-0.01
14	1,2-Dichlorobenzene	40.000	40.526	-1.3	63	-0.01
15	Benzyl Alcohol	40.000	42.275	-5.7	64	-0.01
16	2,2'-oxybis(1-Chloropropane	40.000	34.802	13.0	54	-0.01
17	2-Methylphenol	40.000	38.159	4.6	60	0.00
18	Hexachloroethane	40.000	40.798	-2.0	63	-0.01
19 P	n-Nitroso-di-n-propylamine	40.000	38.623	3.4	61	-0.02
20	3+4-Methylphenols	40.000	40.033	-0.1	62	0.00
21 I	Naphthalene-d8	20.000	20.000	0.0	57	-0.01
22	Acetophenone	40.000	41.439	-3.6	64	-0.01
23 S	Nitrobenzene-d5	80.000	83.608	-4.5	63	-0.01
24	Nitrobenzene	40.000	41.037	-2.6	61	-0.02
25	Isophorone	40.000	38.520	3.7	58	-0.01
26 C	2-Nitrophenol	40.000	41.137	-2.8	61	-0.01
27	2,4-Dimethylphenol	40.000	38.795	3.0	58	0.00
28	bis(2-Chloroethoxy)methane	40.000	37.533	6.2	57	-0.01
29 C	2,4-Dichlorophenol	40.000	41.092	-2.7	62	0.00
30	1,2,4-Trichlorobenzene	40.000	41.020	-2.6	63	-0.01
31	Naphthalene	40.000	40.064	-0.2	61	-0.01
32	Benzoic acid	40.000	40.161	-0.4	56	-0.03
33	4-Chloroaniline	40.000	37.413	6.5	56	-0.01
34 C	Hexachlorobutadiene	40.000	43.834	-9.6	67	0.00
35	Caprolactam	40.000	39.058	2.4	59	-0.03
36 C	4-Chloro-3-methylphenol	40.000	41.751	-4.4	64	0.00
37	2-Methylnaphthalene	40.000	39.913	0.2	61	-0.01
38	1-Methylnaphthalene	40.000	39.835	0.4	61	-0.01
39 I	Acenaphthene-d10	20.000	20.000	0.0	58	-0.01
40	1,2,4,5-Tetrachlorobenzene	40.000	40.737	-1.8	62	-0.01
41 P	Hexachlorocyclopentadiene	40.000	39.437	1.4	55	-0.01
42 S	2,4,6-Tribromophenol	80.000	85.780	-7.2	65	-0.01
43 C	2,4,6-Trichlorophenol	40.000	41.315	-3.3	61	0.00
44	2,4,5-Trichlorophenol	40.000	41.284	-3.2	64	0.00
45 S	2-Fluorobiphenyl	80.000	82.364	-3.0	65	-0.01
46	1,1'-Biphenyl	40.000	39.392	1.5	61	-0.01
47	2-Chloronaphthalene	40.000	40.191	-0.5	63	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141435.D
Acq On : 05 Feb 2025 10:02
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 05 10:46:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	41.385	-3.5	63	0.00
49	Acenaphthylene	40.000	39.872	0.3	61	-0.01
50	Dimethylphthalate	40.000	39.828	0.4	62	-0.01
51	2,6-Dinitrotoluene	40.000	40.695	-1.7	62	-0.01
52 C	Acenaphthene	40.000	40.520	-1.3	63	-0.01
53	3-Nitroaniline	40.000	40.165	-0.4	59	-0.01
54 P	2,4-Dinitrophenol	40.000	43.990	-10.0	63	-0.01
55	Dibenzofuran	40.000	39.973	0.1	62	-0.01
56 P	4-Nitrophenol	40.000	41.844	-4.6	60	0.00
57	2,4-Dinitrotoluene	40.000	42.144	-5.4	64	-0.01
58	Fluorene	40.000	41.573	-3.9	65	-0.01
59	2,3,4,6-Tetrachlorophenol	40.000	42.052	-5.1	63	0.00
60	Diethylphthalate	40.000	40.510	-1.3	62	-0.02
61	4-Chlorophenyl-phenylether	40.000	41.761	-4.4	65	0.00
62	4-Nitroaniline	40.000	41.554	-3.9	62	-0.02
63	Azobenzene	40.000	38.055	4.9	59	-0.01
64 I	Phenanthrene-d10	20.000	20.000	0.0	59	-0.01
65	4,6-Dinitro-2-methylphenol	40.000	45.776	-14.4	64	0.00
66 c	n-Nitrosodiphenylamine	40.000	40.601	-1.5	62	-0.01
67	4-Bromophenyl-phenylether	40.000	41.249	-3.1	63	-0.01
68	Hexachlorobenzene	40.000	41.354	-3.4	64	-0.01
69	Atrazine	40.000	37.040	7.4	56	-0.01
70 C	Pentachlorophenol	40.000	43.436	-8.6	62	0.00
71	Phenanthrene	40.000	41.476	-3.7	64	0.00
72	Anthracene	40.000	41.812	-4.5	65	-0.01
73	Carbazole	40.000	43.048	-7.6	66	0.00
74	Di-n-butylphthalate	40.000	41.155	-2.9	64	-0.01
75 C	Fluoranthene	40.000	43.486	-8.7	67	0.00
76 I	Chrysene-d12	20.000	20.000	0.0	65	-0.01
77	Benzydine	40.000	38.432	3.9	55	0.00
78	Pyrene	40.000	39.047	2.4	69	0.00
79 S	Terphenyl-d14	80.000	79.581	0.5	71	-0.01
80	Butylbenzylphthalate	40.000	39.778	0.6	69	-0.01
81	Benzo(a)anthracene	40.000	37.964	5.1	67	-0.01
82	3,3'-Dichlorobenzidine	40.000	38.153	4.6	65	-0.01
83	Chrysene	40.000	39.290	1.8	71	0.00
84	Bis(2-ethylhexyl)phthalate	40.000	38.586	3.5	68	-0.01
85 c	Di-n-octyl phthalate	40.000	37.624	5.9	65	-0.02
86 I	Perylene-d12	20.000	20.000	0.0	61	-0.01
87	Indeno(1,2,3-cd)pyrene	40.000	43.712	-9.3	68	-0.02
88	Benzo(b)fluoranthene	40.000	42.180	-5.4	72	-0.02
89	Benzo(k)fluoranthene	40.000	38.829	2.9	61	-0.02
90 C	Benzo(a)pyrene	40.000	41.472	-3.7	66	-0.02
91	Dibenzo(a,h)anthracene	40.000	43.654	-9.1	68	-0.03
92	Benzo(g,h,i)perylene	40.000	44.107	-10.3	70	-0.04

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141435.D
Acq On : 05 Feb 2025 10:02
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 05 10:46:53 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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



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

7C

SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: RUTW01

Lab Code: CHEM Case No.: Q1207 SAS No.: Q1207 SDG No.: Q1207

Instrument ID: BNA_F Calibration Date/Time: 02/05/2025 15:16

Lab File ID: BF141447.D Init. Calib. Date(s): 01/29/2025 01/29/2025

EPA Sample No.: SSTDCCC040 Init. Calib. Time(s): 10:30 17:05

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

COMPOUND	RRF	RRF040	MIN RRF	%D	MAX%D
Pyridine	1.380	1.287		-6.7	
2-Fluorophenol	1.303	1.309		0.5	
Phenol-d6	1.657	1.599		-3.5	
1,4-Dichlorobenzene	1.547	1.560		0.8	20.0
2-Methylphenol	1.135	1.070		-5.7	
3+4-Methylphenols	1.393	1.393		0.0	
Nitrobenzene-d5	0.379	0.401		5.8	
Hexachloroethane	0.571	0.587		2.8	
Nitrobenzene	0.393	0.410		4.3	
Hexachlorobutadiene	0.194	0.212		9.3	20.0
2,4,6-Trichlorophenol	0.372	0.384		3.2	20.0
2-Fluorobiphenyl	1.299	1.332		2.5	
2,4,5-Trichlorophenol	0.405	0.414		2.2	
2,4-Dinitrotoluene	0.406	0.439		8.1	
2,4,6-Tribromophenol	0.183	0.203		10.9	
Hexachlorobenzene	0.238	0.245		2.9	
Pentachlorophenol	0.139	0.152		9.4	20.0
Terphenyl-d14	1.297	1.301		0.3	

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
 Data File : BF141447.D
 Acq On : 05 Feb 2025 15:16
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025

Quant Time: Feb 05 15:51:32 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 17:41:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	82418	20.000	ng	-0.01
21) Naphthalene-d8	8.075	136	312528	20.000	ng	#-0.01
39) Acenaphthene-d10	9.828	164	169230	20.000	ng	-0.01
64) Phenanthrene-d10	11.316	188	293274	20.000	ng	-0.01
76) Chrysene-d12	13.963	240	189132	20.000	ng	#-0.01
86) Perylene-d12	15.421	264	170936	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	431535	80.382	ng	0.00
7) Phenol-d6	6.434	99	527065	77.175	ng	0.00
23) Nitrobenzene-d5	7.357	82	501910	84.661	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	137575	88.675	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	901907	82.031	ng	-0.01
79) Terphenyl-d14	12.904	244	984126	80.246	ng	-0.01
Target Compounds						Qvalue
2) 1,4-Dioxane	2.451	88	86079	36.458	ng	97
3) Pyridine	3.181	79	212209	37.303	ng	94
4) n-Nitrosodimethylamine	3.140	42	142194m	43.755	ng	
6) Aniline	6.451	93	213567	36.942	ng	# 26
8) 2-Chlorophenol	6.581	128	226620	39.384	ng	97
9) Benzaldehyde	6.339	77	175480	44.359	ng	98
10) Phenol	6.445	94	278886	38.522	ng	# 71
11) bis(2-Chloroethyl)ether	6.528	93	206064	37.123	ng	99
12) 1,3-Dichlorobenzene	6.728	146	258314	40.714	ng	98
13) 1,4-Dichlorobenzene	6.810	146	257154	40.346	ng	100
14) 1,2-Dichlorobenzene	6.963	146	243391	40.781	ng	99
15) Benzyl Alcohol	6.934	79	196541	42.111	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.069	45	339918	35.215	ng	86
17) 2-Methylphenol	7.051	107	176306	37.700	ng	# 93
18) Hexachloroethane	7.304	117	96738	41.142	ng	95
19) n-Nitroso-di-n-propyla...	7.204	70	154323	38.029	ng	99
20) 3+4-Methylphenols	7.204	107	229646	39.993	ng	91
22) Acetophenone	7.204	105	309705	41.690	ng	97
24) Nitrobenzene	7.375	77	256448	41.742	ng	98
25) Isophorone	7.610	82	399431	38.977	ng	98
26) 2-Nitrophenol	7.692	139	120266	41.507	ng	95
27) 2,4-Dimethylphenol	7.734	122	143150m	38.815	ng	
28) bis(2-Chloroethoxy)met...	7.822	93	246023	37.637	ng	99
29) 2,4-Dichlorophenol	7.939	162	186722	41.356	ng	99
30) 1,2,4-Trichlorobenzene	8.016	180	214815	41.662	ng	99
31) Naphthalene	8.098	128	669352	40.542	ng	99
32) Benzoic acid	7.851	122	142996	42.178	ng	96
33) 4-Chloroaniline	8.145	127	193463	34.556	ng	98
34) Hexachlorobutadiene	8.210	225	132295	43.752	ng	99
35) Caprolactam	8.516	113	58255	39.508	ng	98
36) 4-Chloro-3-methylphenol	8.633	107	202603	41.835	ng	97
37) 2-Methylnaphthalene	8.786	142	423023	40.313	ng	100
38) 1-Methylnaphthalene	8.886	142	413353	40.101	ng	99
40) 1,2,4,5-Tetrachloroben...	8.951	216	196378	40.790	ng	99
41) Hexachlorocyclopentadiene	8.939	237	57315	40.311	ng	98
43) 2,4,6-Trichlorophenol	9.069	196	130083	41.280	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
 Data File : BF141447.D
 Acq On : 05 Feb 2025 15:16
 Operator : RC/JU
 Sample : SSTDCCC040
 Misc :
 ALS Vial : 2 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025

Quant Time: Feb 05 15:51:32 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 17:41:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	140152	40.864	ng	99
46) 1,1'-Biphenyl	9.251	154	521663	39.526	ng	98
47) 2-Chloronaphthalene	9.275	162	408289	39.690	ng	100
48) 2-Nitroaniline	9.375	65	137877	42.611	ng	97
49) Acenaphthylene	9.692	152	582863	40.477	ng	100
50) Dimethylphthalate	9.551	163	462460	40.461	ng	100
51) 2,6-Dinitrotoluene	9.616	165	108549	40.902	ng	96
52) Acenaphthene	9.863	154	424189	41.234	ng	99
53) 3-Nitroaniline	9.786	138	105728	40.648	ng	98
54) 2,4-Dinitrophenol	9.892	184	56897	46.121	ng	90
55) Dibenzofuran	10.033	168	559125	40.604	ng	96
56) 4-Nitrophenol	9.963	139	79433	41.757	ng	91
57) 2,4-Dinitrotoluene	10.022	165	148623	43.255	ng	94
58) Fluorene	10.380	166	445212	41.681	ng	98
59) 2,3,4,6-Tetrachlorophenol	10.157	232	116047	43.009	ng	96
60) Diethylphthalate	10.251	149	451800	40.767	ng	98
61) 4-Chlorophenyl-phenyle...	10.369	204	218833	41.942	ng	96
62) 4-Nitroaniline	10.398	138	112018	43.805	ng	90
63) Azobenzene	10.533	77	442185	39.861	ng	97
65) 4,6-Dinitro-2-methylph...	10.427	198	81693	47.093	ng	94
66) n-Nitrosodiphenylamine	10.492	169	375589	39.596	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	134728	41.034	ng	97
68) Hexachlorobenzene	10.927	284	143713	41.264	ng	99
69) Atrazine	11.016	200	120467	37.984	ng	99
70) Pentachlorophenol	11.122	266	89197	43.736	ng	99
71) Phenanthrene	11.339	178	659727	41.848	ng	100
72) Anthracene	11.392	178	647901	41.945	ng	99
73) Carbazole	11.551	167	589368	43.030	ng	99
74) Di-n-butylphthalate	11.880	149	689234	41.523	ng	99
75) Fluoranthene	12.527	202	704384	45.252	ng	99
77) Benzidine	12.657	184	243520	40.163	ng	99
78) Pyrene	12.757	202	717034	39.495	ng	100
80) Butylbenzylphthalate	13.380	149	258917	40.822	ng	98
81) Benzo(a)anthracene	13.951	228	505330	38.719	ng	100
82) 3,3'-Dichlorobenzidine	13.915	252	157600	37.967	ng	98
83) Chrysene	13.986	228	468237	39.147	ng	100
84) Bis(2-ethylhexyl)phtha...	13.945	149	324105	40.283	ng	100
85) Di-n-octyl phthalate	14.568	149	463778	37.112	ng	99
87) Indeno(1,2,3-cd)pyrene	16.868	276	449874	40.777	ng	95
88) Benzo(b)fluoranthene	15.004	252	448091m	41.674	ng	
89) Benzo(k)fluoranthene	15.033	252	394915	41.460	ng	98
90) Benzo(a)pyrene	15.362	252	378746	41.684	ng	98
91) Dibenzo(a,h)anthracene	16.886	278	358157	40.350	ng	97
92) Benzo(g,h,i)perylene	17.303	276	373186	40.435	ng #	94

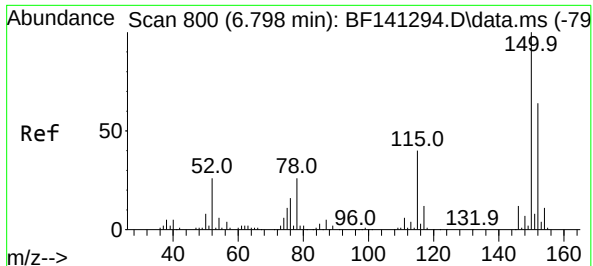
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Manual Integrations

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025





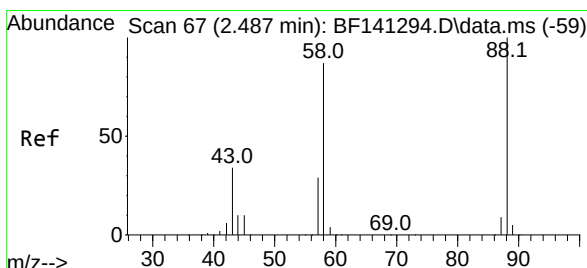
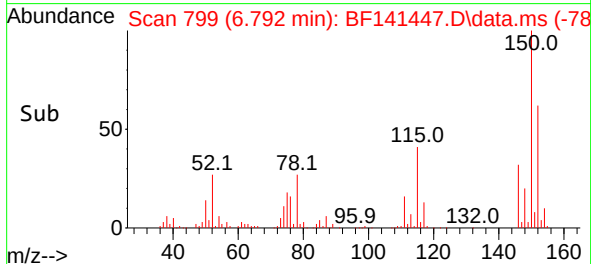
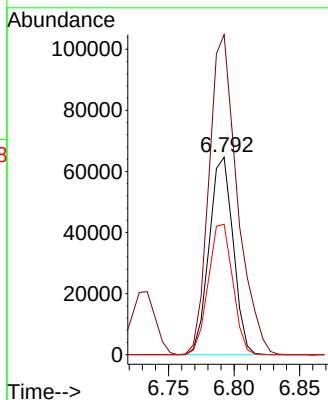
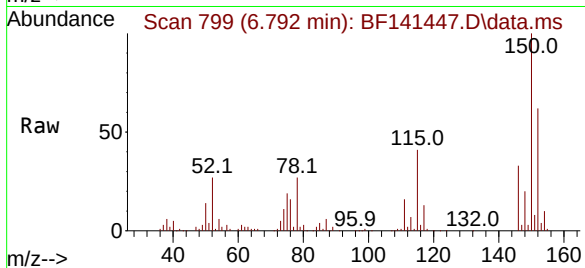
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 79
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:152 Resp: 82418
Ion Ratio Lower Upper
152 100
150 162.1 125.9 188.9
115 66.1 49.7 74.5

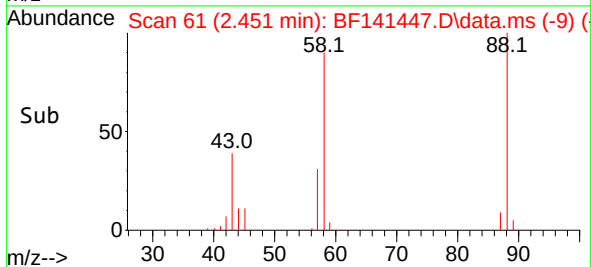
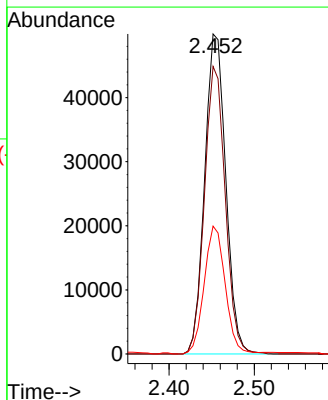
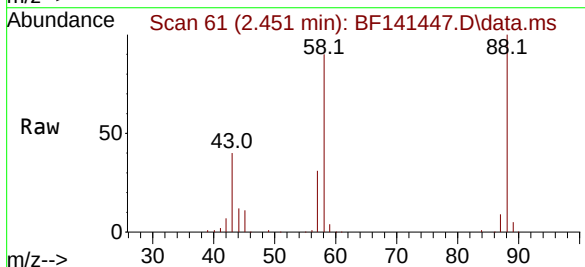
Manual Integrations
APPROVED

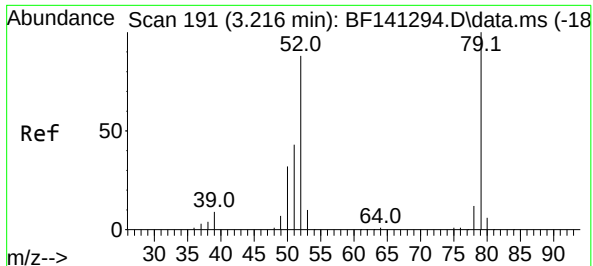
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#2
1,4-Dioxane
Concen: 36.458 ng
RT: 2.451 min Scan# 61
Delta R.T. -0.041 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

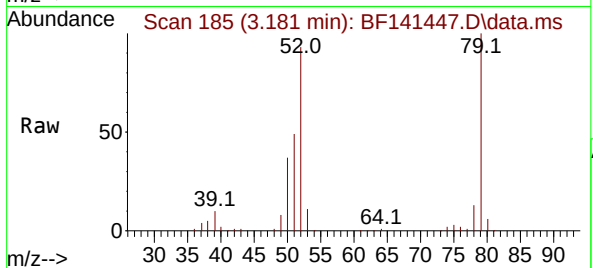
Tgt Ion: 88 Resp: 86079
Ion Ratio Lower Upper
88 100
58 88.4 70.2 105.4
43 39.8 27.6 41.4





#3
Pyridine
Concen: 37.303 ng
RT: 3.181 min Scan# 11
Delta R.T. -0.047 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

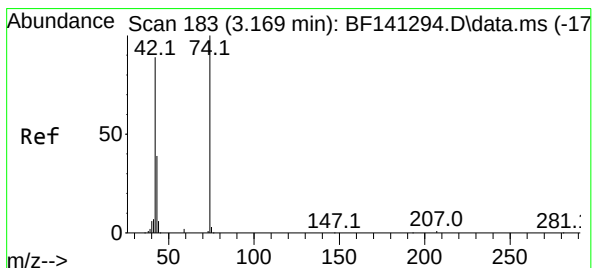
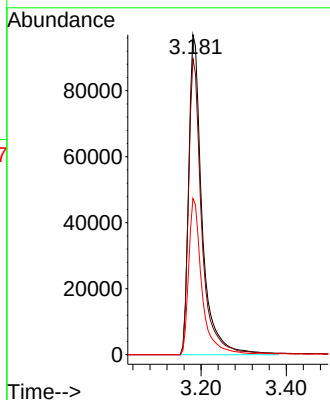
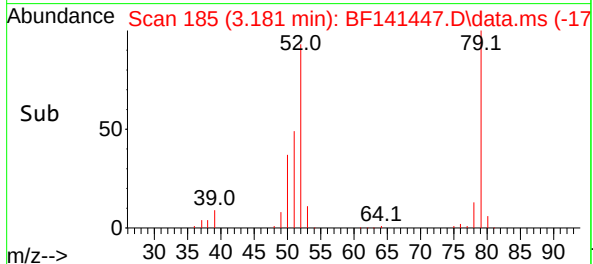
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



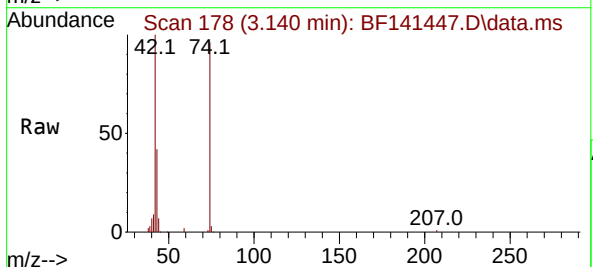
Tgt Ion: 79 Resp: 212209
Ion Ratio Lower Upper
79 100
52 92.6 70.3 105.5
51 48.8 34.3 51.5

Manual Integrations
APPROVED

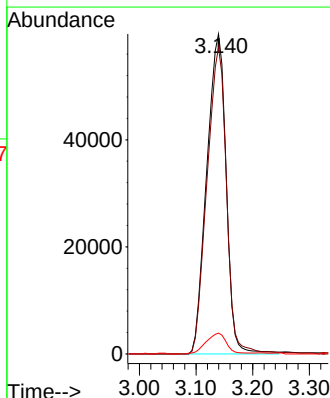
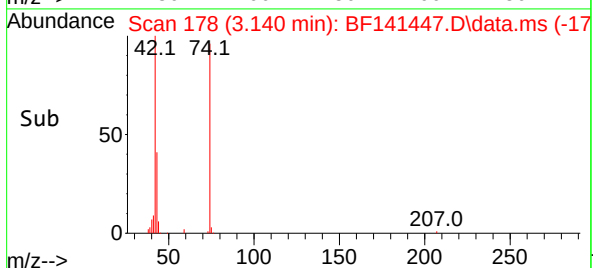
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

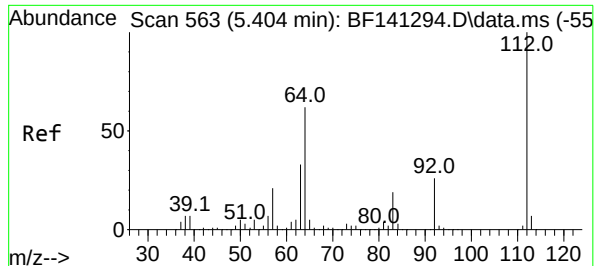


#4
n-Nitrosodimethylamine
Concen: 43.755 ng m
RT: 3.140 min Scan# 178
Delta R.T. -0.059 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16



Tgt Ion: 42 Resp: 142194
Ion Ratio Lower Upper
42 100
74 95.8 90.3 135.5
44 6.5 5.7 8.5





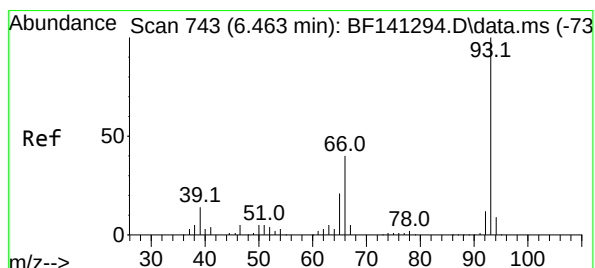
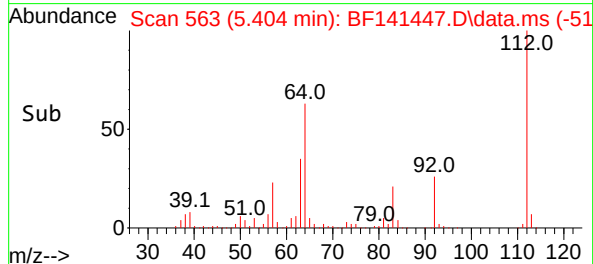
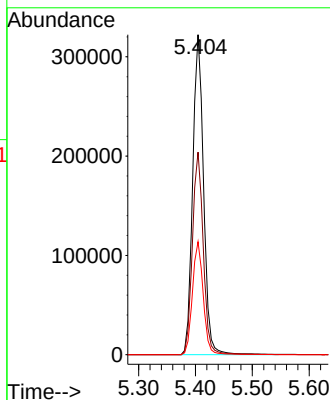
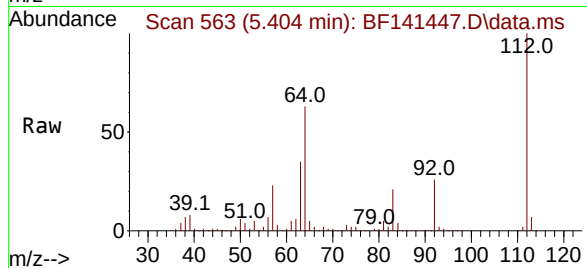
#5
2-Fluorophenol
Concen: 80.382 ng
RT: 5.404 min Scan# 501
Delta R.T. -0.006 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 112 Resp: 43153
Ion Ratio Lower Upper
112 100
64 63.3 49.8 74.8
63 35.3 26.1 39.1

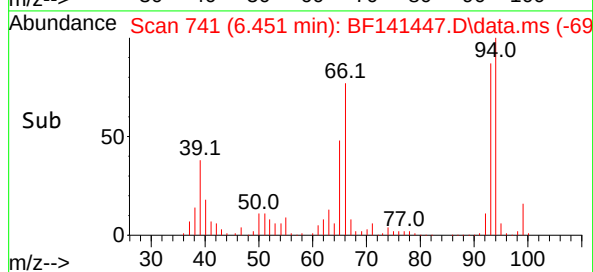
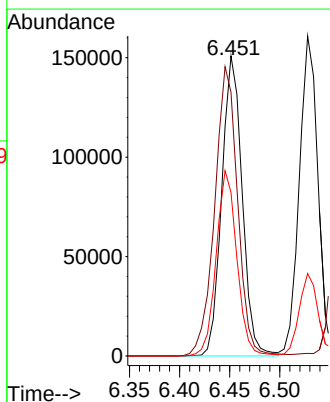
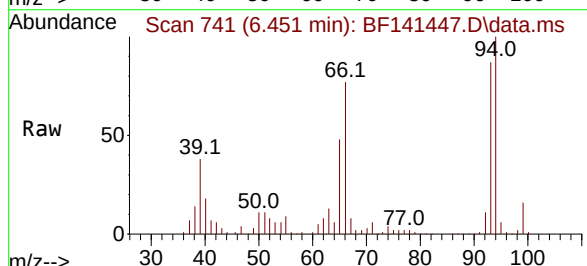
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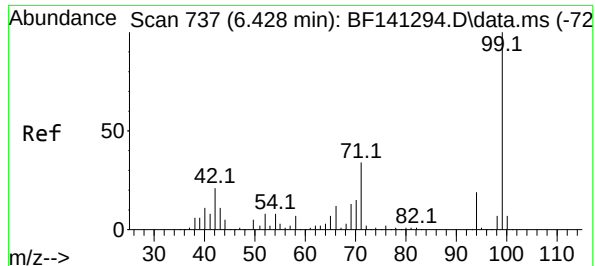
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#6
Aniline
Concen: 36.942 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.018 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

Tgt Ion: 93 Resp: 213567
Ion Ratio Lower Upper
93 100
66 87.9 32.5 48.7#
65 54.5 17.0 25.6#





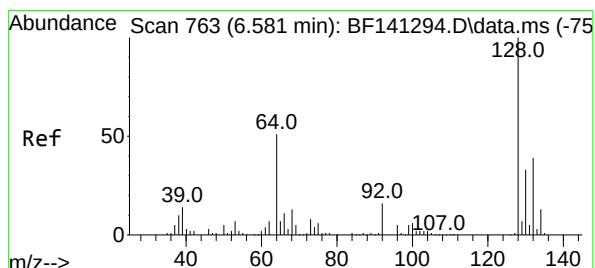
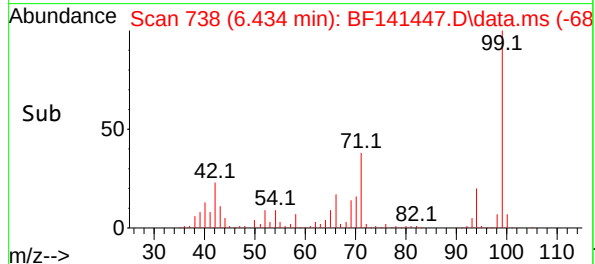
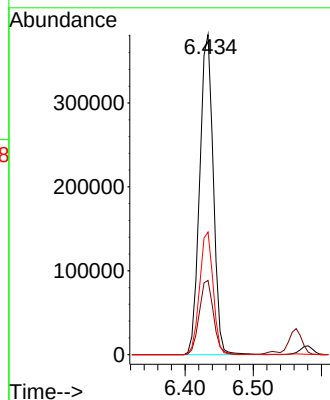
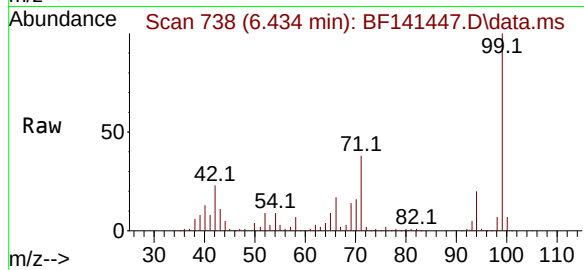
#7
Phenol-d6
Concen: 77.175 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion: 99 Resp: 52706
Ion Ratio Lower Upper
99 100
42 23.2 17.1 25.7
71 38.3 26.9 40.3

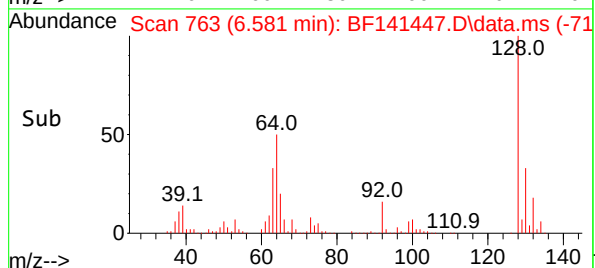
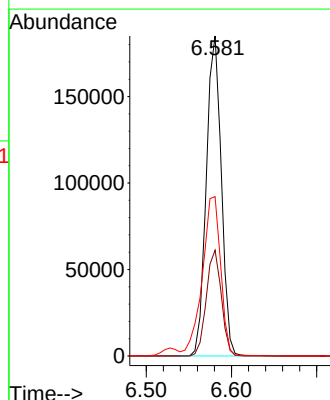
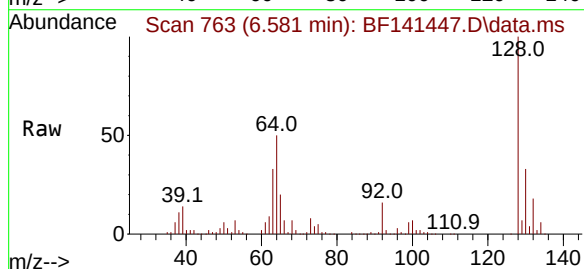
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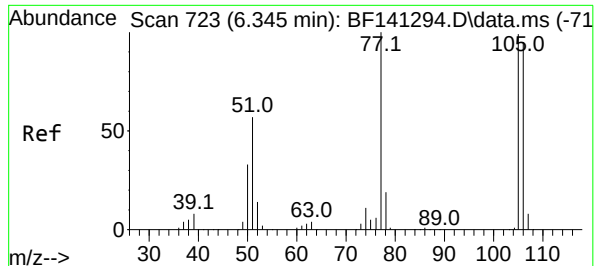
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#8
2-Chlorophenol
Concen: 39.384 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

Tgt Ion:128 Resp: 226620
Ion Ratio Lower Upper
128 100
130 33.1 12.5 52.5
64 49.8 32.9 72.9





#9

Benzaldehyde

Concen: 44.359 ng

RT: 6.339 min Scan# 71

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion: 77 Resp: 175486

Ion Ratio Lower Upper

77 100

105 97.5 79.4 119.4

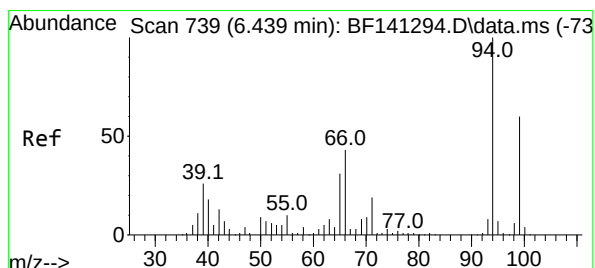
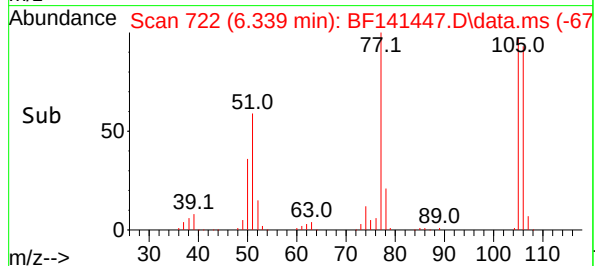
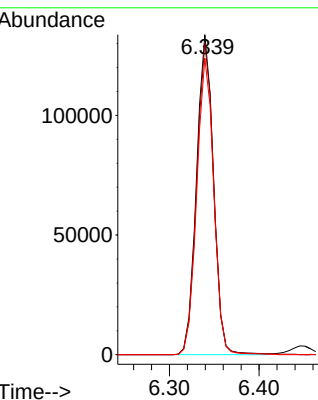
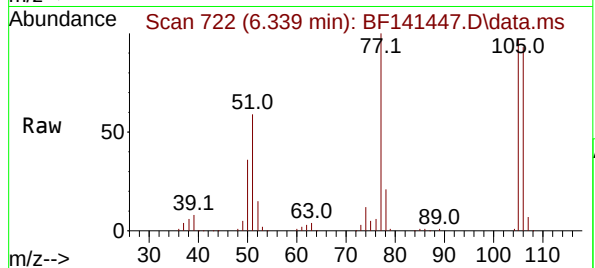
106 92.7 74.6 114.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#10

Phenol

Concen: 38.522 ng

RT: 6.445 min Scan# 740

Delta R.T. -0.006 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

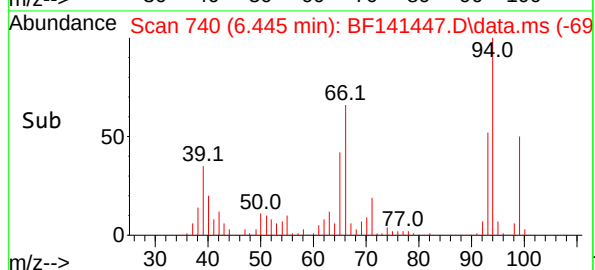
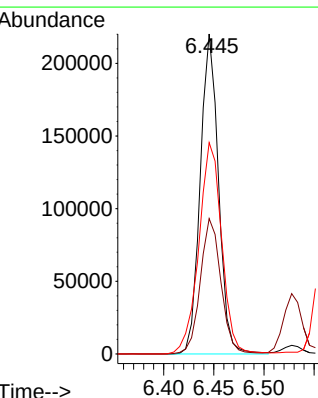
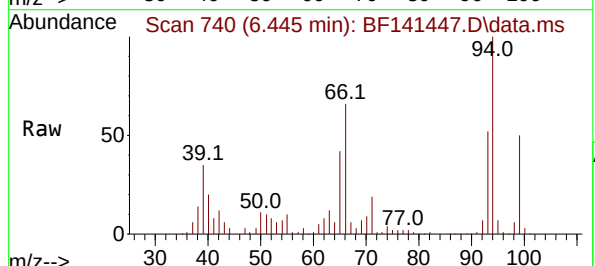
Tgt Ion: 94 Resp: 278886

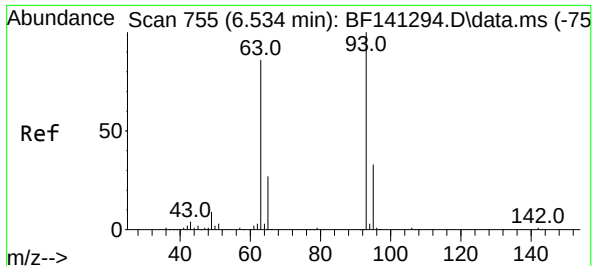
Ion Ratio Lower Upper

94 100

65 42.3 10.8 50.8

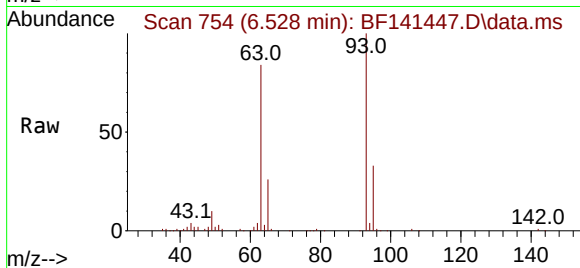
66 66.1 23.3 63.3#





#11
bis(2-Chloroethyl)ether
Concen: 37.123 ng
RT: 6.528 min Scan# 754
Delta R.T. -0.018 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

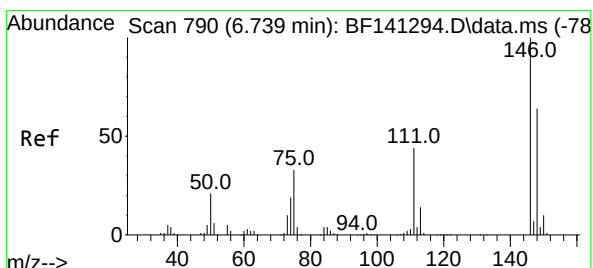
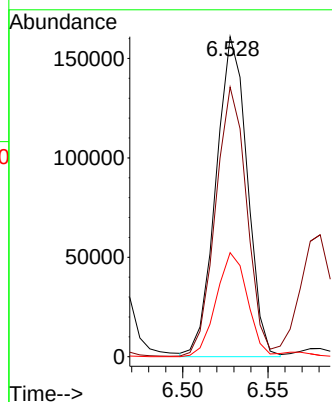
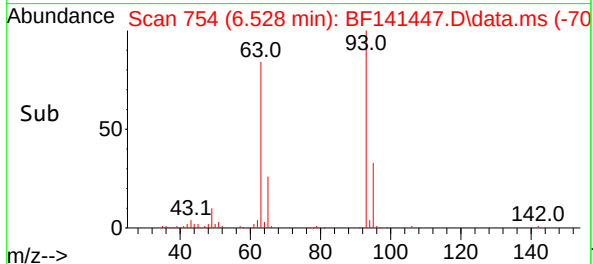
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



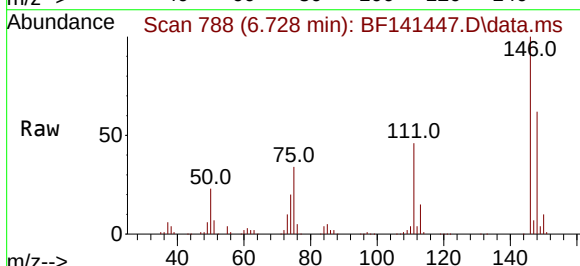
Tgt Ion: 93 Resp: 206064
Ion Ratio Lower Upper
93 100
63 84.3 65.0 105.0
95 32.5 12.4 52.4

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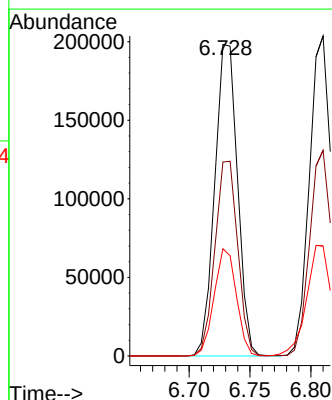
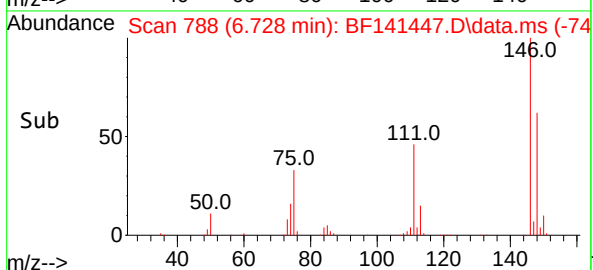
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

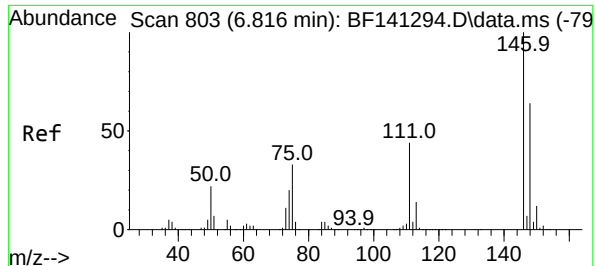


#12
1,3-Dichlorobenzene
Concen: 40.714 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.018 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16



Tgt Ion:146 Resp: 258314
Ion Ratio Lower Upper
146 100
148 62.3 51.2 76.8
75 34.4 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 40.346 ng

RT: 6.810 min Scan# 803

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

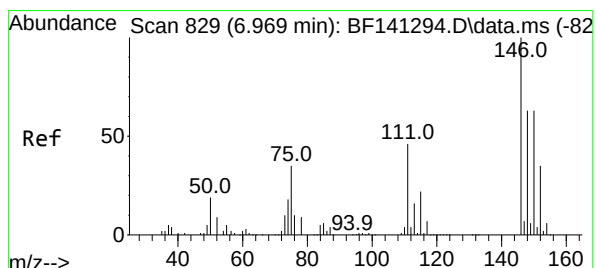
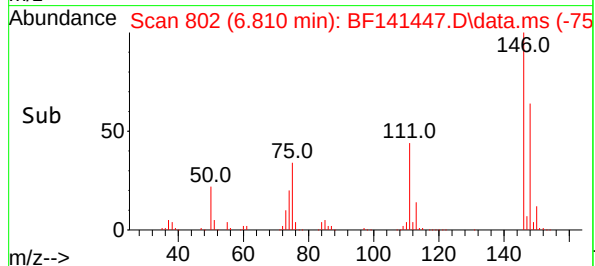
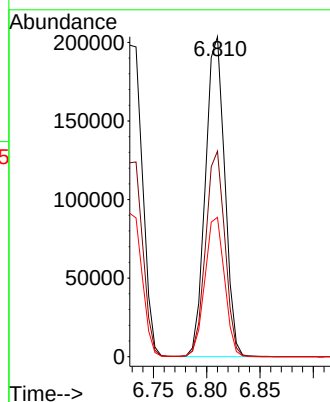
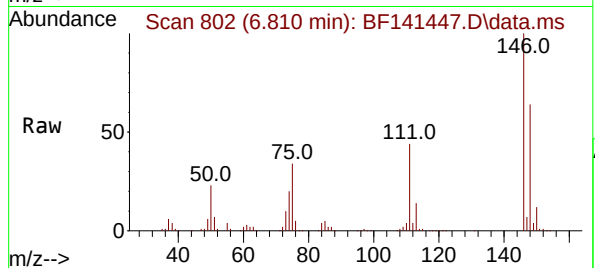
ClientSampleId :

SSTDCCC040

Tgt Ion:146 Resp: 257154
Ion Ratio Lower Upper
146 100
148 64.3 51.2 76.8
111 43.6 35.0 52.4

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#14

1,2-Dichlorobenzene

Concen: 40.781 ng

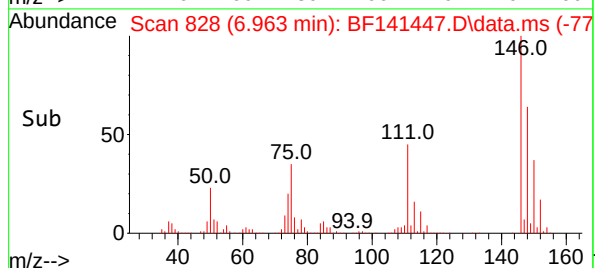
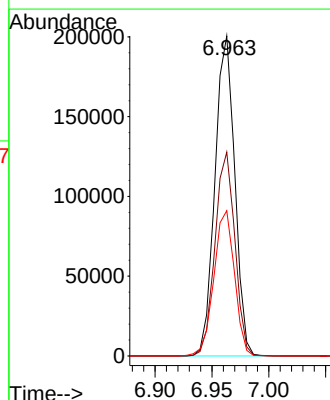
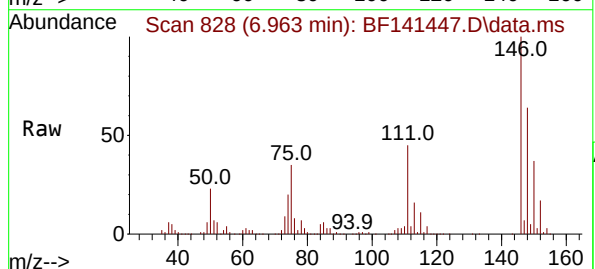
RT: 6.963 min Scan# 828

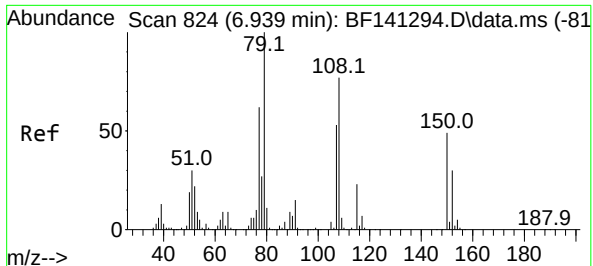
Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Tgt Ion:146 Resp: 243391
Ion Ratio Lower Upper
146 100
148 63.7 50.5 75.7
111 45.4 36.6 55.0





#15

Benzyl Alcohol

Concen: 42.111 ng

RT: 6.934 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion: 79 Resp: 19654

Ion Ratio Lower Upper

79 100

108 71.3 61.4 92.0

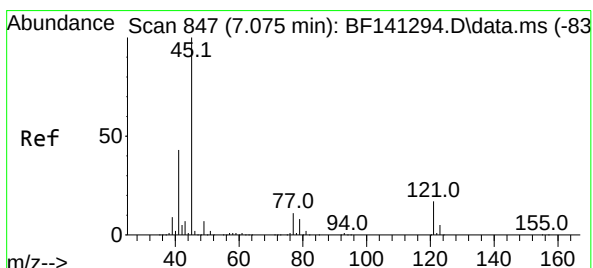
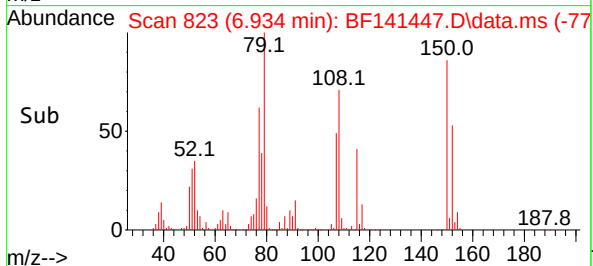
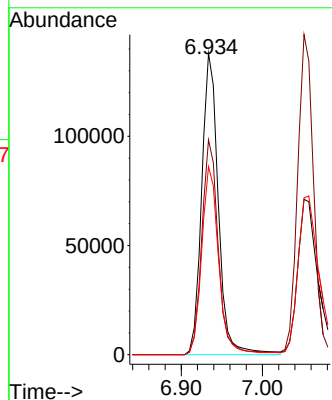
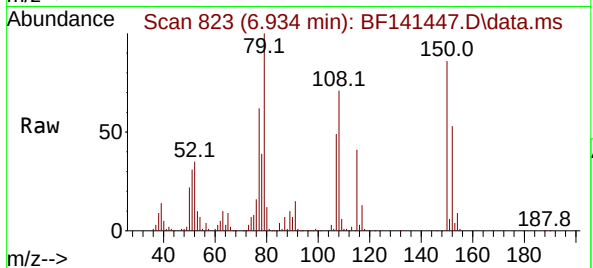
77 62.4 49.9 74.9

Manual Integrations

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Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#16

2,2'-oxybis(1-Chloropropane)

Concen: 35.215 ng

RT: 7.069 min Scan# 846

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

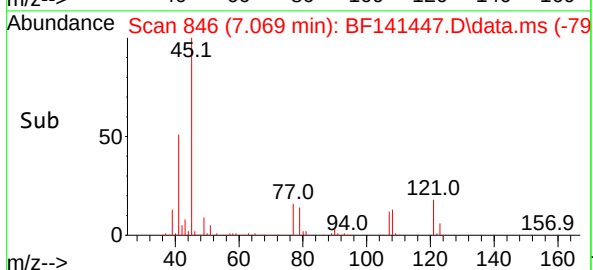
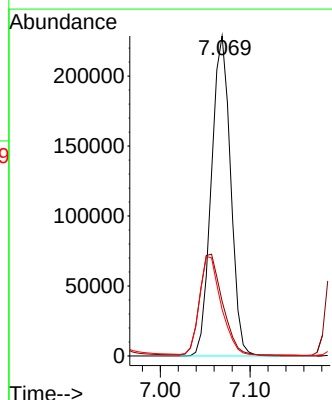
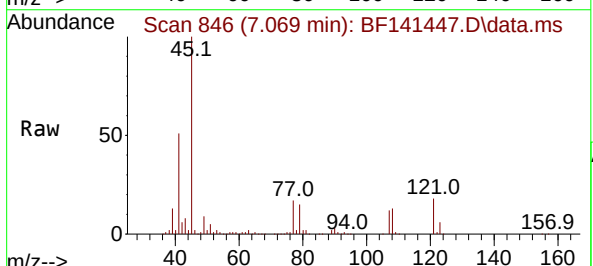
Tgt Ion: 45 Resp: 339918

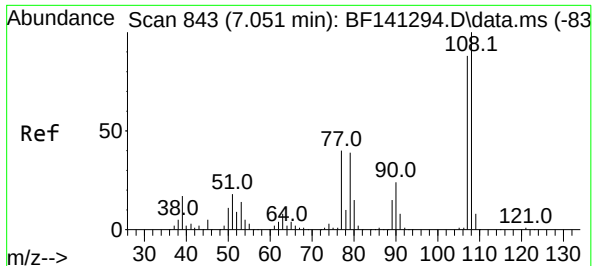
Ion Ratio Lower Upper

45 100

77 17.1 0.0 31.8

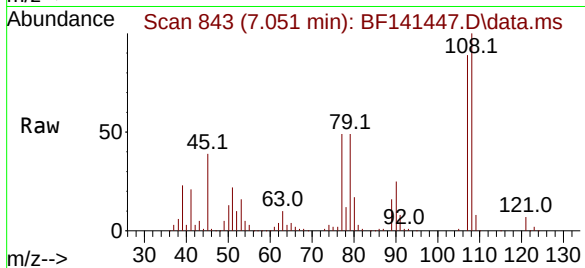
79 14.5 0.0 29.1





#17
2-Methylphenol
Concen: 37.700 ng
RT: 7.051 min Scan# 843
Delta R.T. -0.006 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

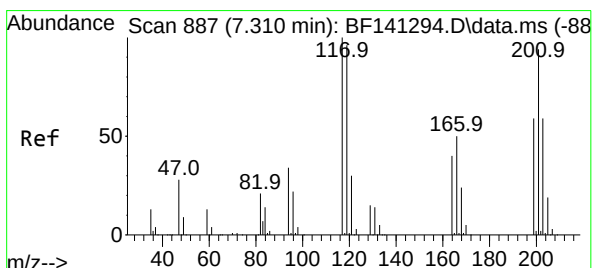
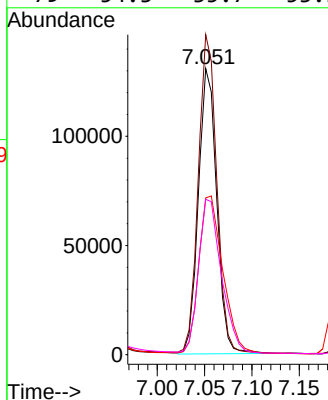
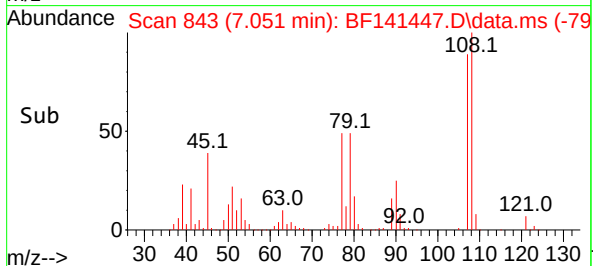
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



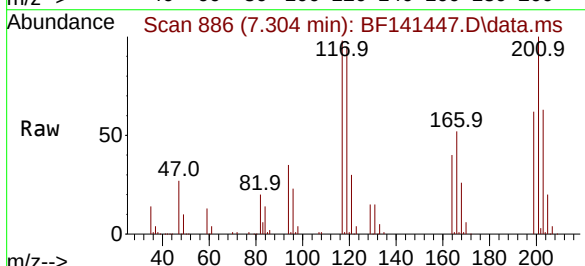
Tgt Ion:107 Resp: 176300
Ion Ratio Lower Upper
107 100
108 111.9 90.8 136.2
77 54.8 36.2 54.4
79 54.3 35.7 53.5#

Manual Integrations
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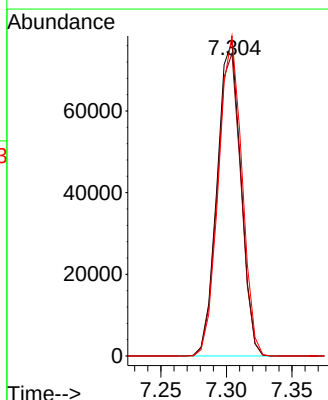
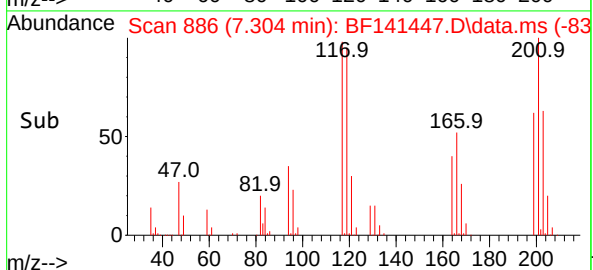
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

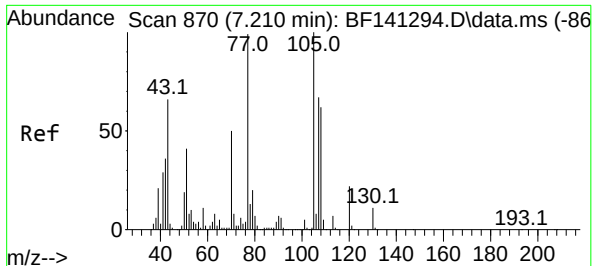


#18
Hexachloroethane
Concen: 41.142 ng
RT: 7.304 min Scan# 886
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16



Tgt Ion:117 Resp: 96738
Ion Ratio Lower Upper
117 100
119 96.3 76.6 114.8
201 101.8 74.8 112.2





#19

n-Nitroso-di-n-propylamine

Concen: 38.029 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.024 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion: 70 Resp: 15432

Ion Ratio Lower Upper

70 100

42 71.9 56.8 85.2

101 9.5 7.7 11.5

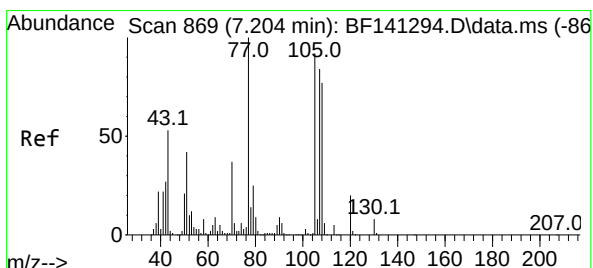
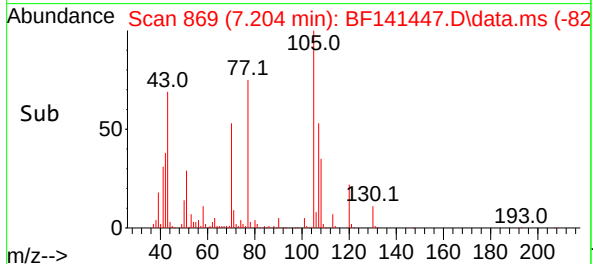
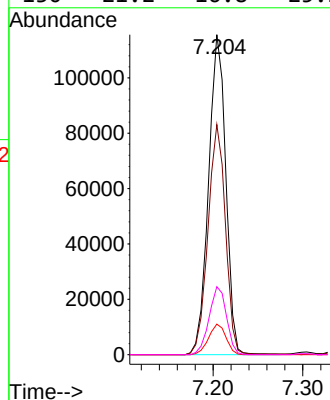
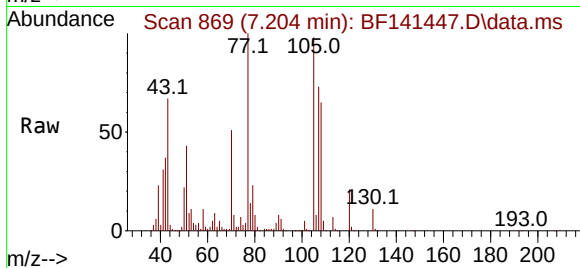
130 21.2 16.8 25.2

Manual Integrations

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Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#20

3+4-Methylphenols

Concen: 39.993 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Tgt Ion:107 Resp: 229646

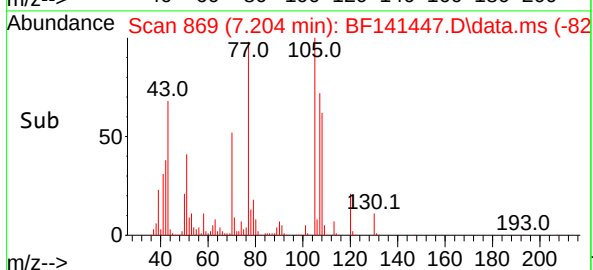
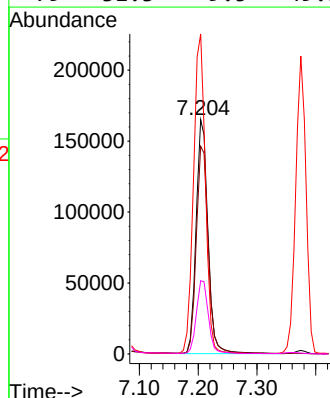
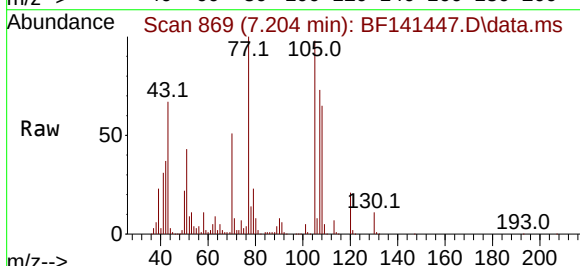
Ion Ratio Lower Upper

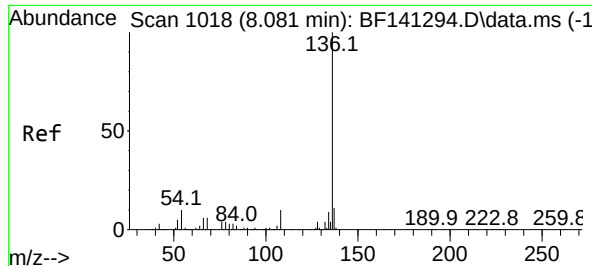
107 100

108 88.7 70.9 110.9

77 136.6 98.5 138.5

79 31.3 9.5 49.5





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.075 min Scan# 1018

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDC040

Tgt Ion:136 Resp: 31252

Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 8.9 7.8 11.8

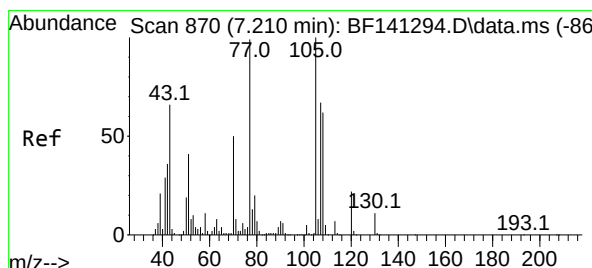
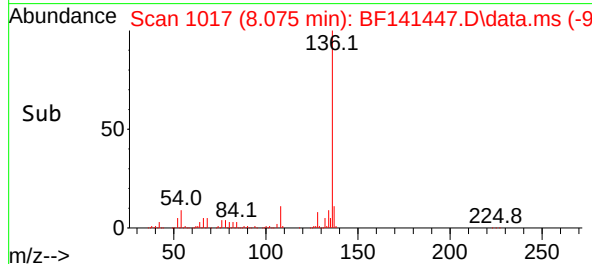
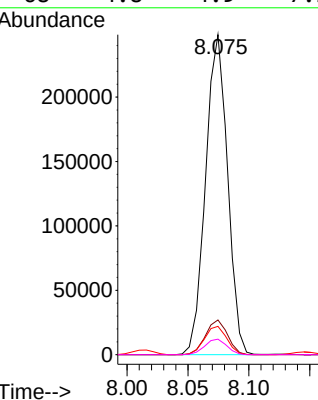
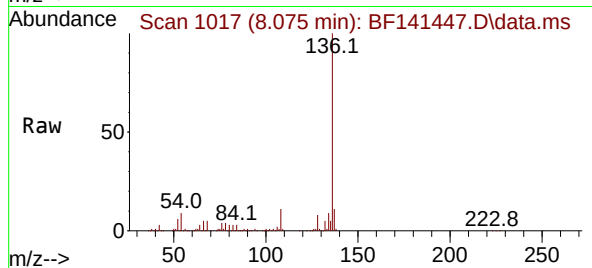
68 4.8 4.9 7.3#

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#22

Acetophenone

Concen: 41.690 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Tgt Ion:105 Resp: 309705

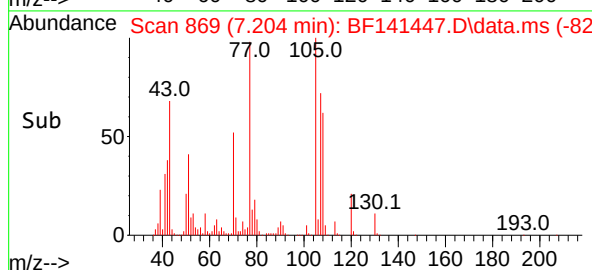
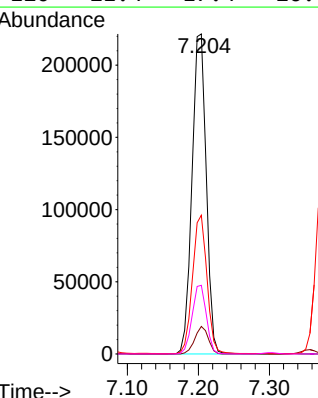
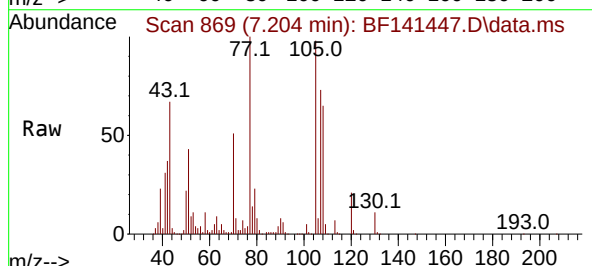
Ion Ratio Lower Upper

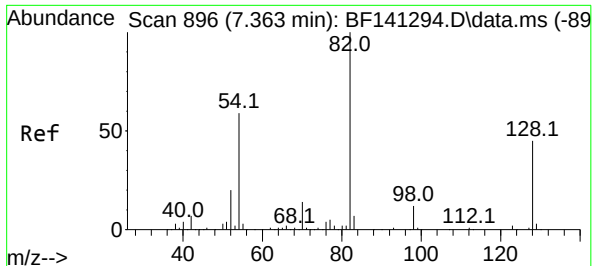
105 100

71 8.6 6.8 10.2

51 43.4 32.6 49.0

120 21.4 17.4 26.0





#23

Nitrobenzene-d5

Concen: 84.661 ng

RT: 7.357 min Scan# 895

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion: 82 Resp: 501910

Ion Ratio Lower Upper

82 100

128 43.4 35.7 53.5

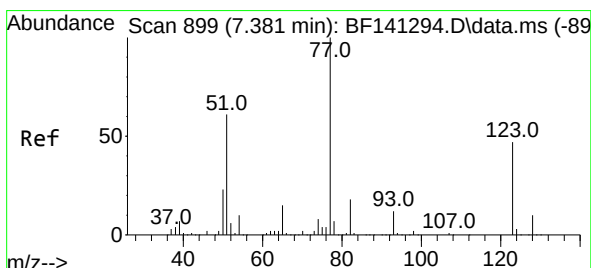
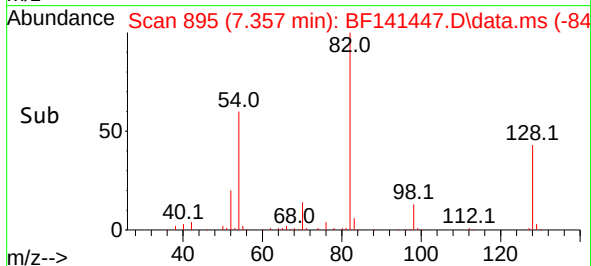
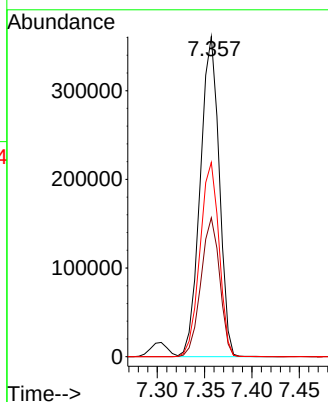
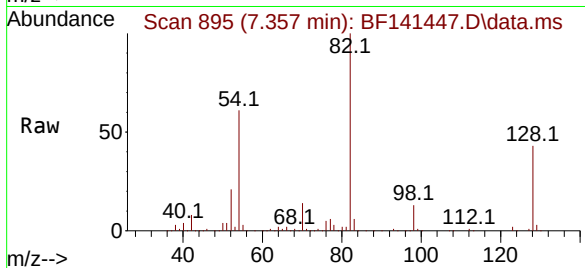
54 60.7 47.1 70.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#24

Nitrobenzene

Concen: 41.742 ng

RT: 7.375 min Scan# 898

Delta R.T. -0.018 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

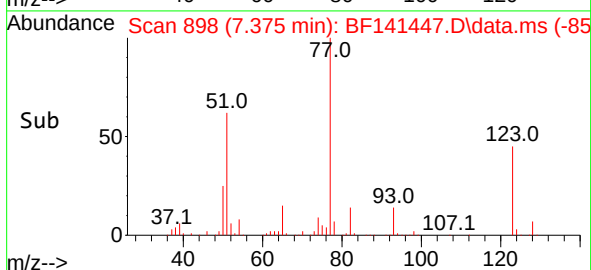
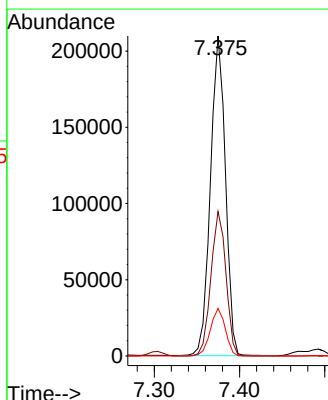
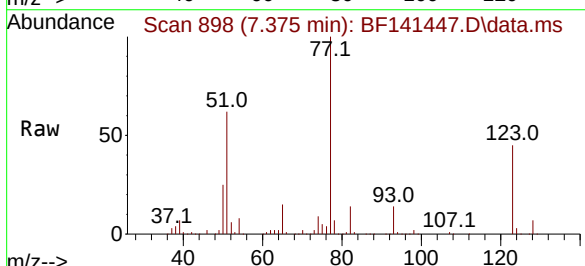
Tgt Ion: 77 Resp: 256448

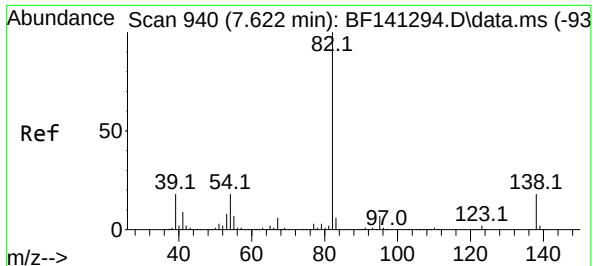
Ion Ratio Lower Upper

77 100

123 45.1 37.3 55.9

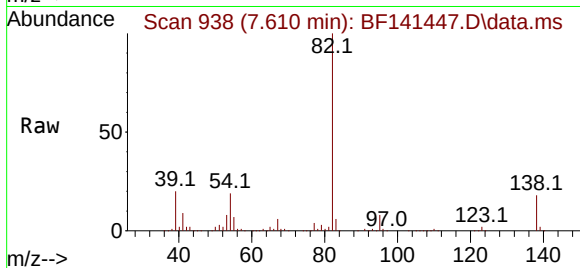
65 14.8 11.8 17.6





#25
Isophorone
Concen: 38.977 ng
RT: 7.610 min Scan# 91
Delta R.T. -0.018 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

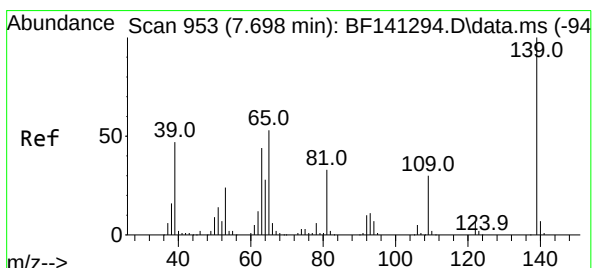
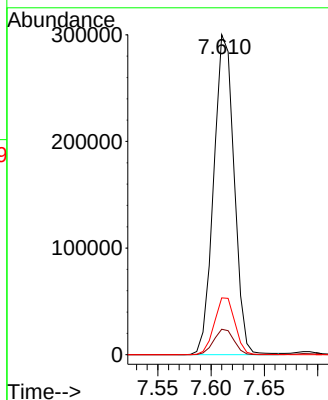
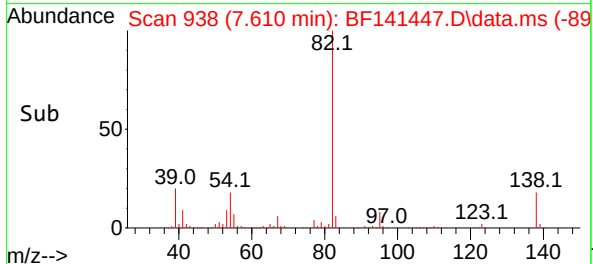
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



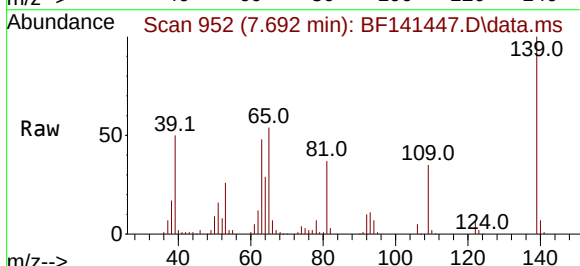
Tgt Ion: 82 Resp: 39943
Ion Ratio Lower Upper
82 100
95 8.0 5.8 8.6
138 17.7 14.7 22.1

Manual Integrations
APPROVED

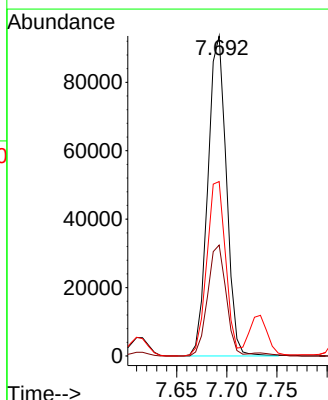
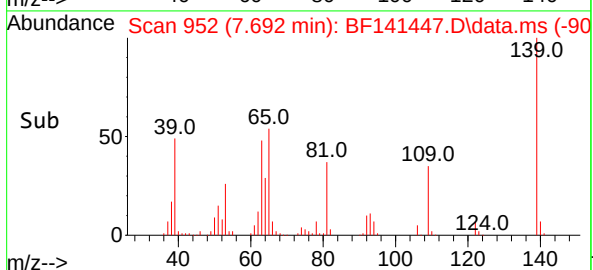
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

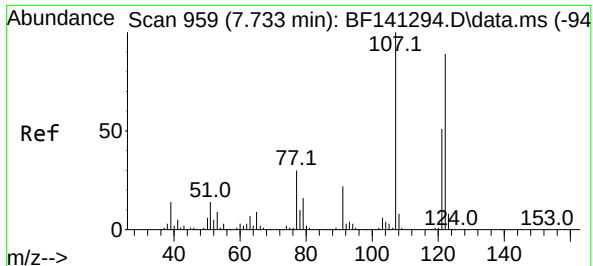


#26
2-Nitrophenol
Concen: 41.507 ng
RT: 7.692 min Scan# 952
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16



Tgt Ion:139 Resp: 120266
Ion Ratio Lower Upper
139 100
109 34.7 23.8 35.6
65 54.5 42.2 63.4





#27

2,4-Dimethylphenol

Concen: 38.815 ng m

RT: 7.734 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:122 Resp: 143150

Ion Ratio Lower Upper

122 100

107 119.9 89.9 134.9

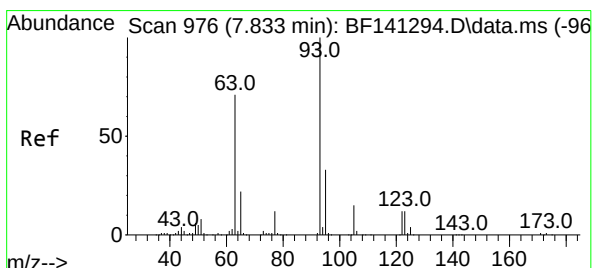
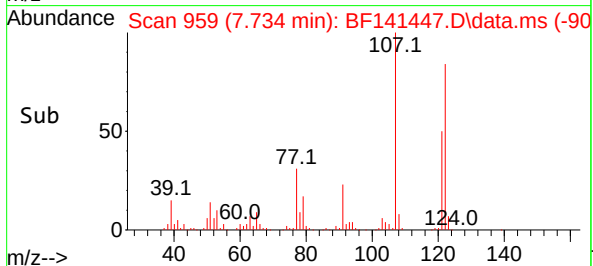
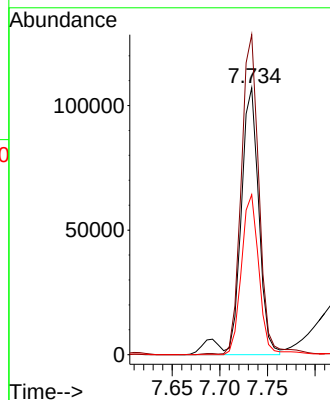
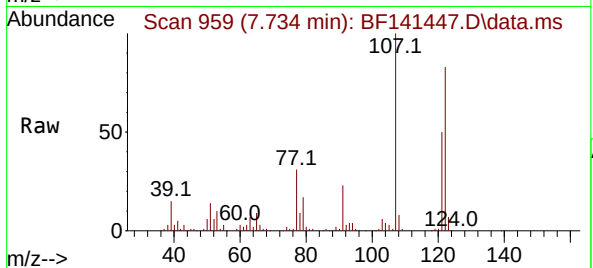
121 60.0 46.1 69.1

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#28

bis(2-Chloroethoxy)methane

Concen: 37.637 ng

RT: 7.822 min Scan# 974

Delta R.T. -0.018 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

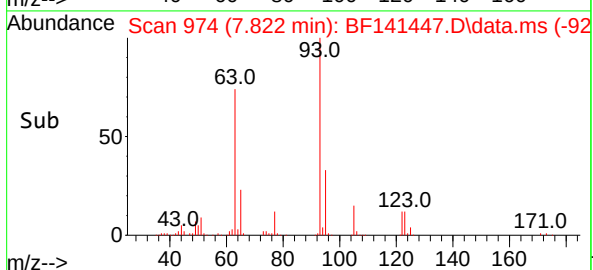
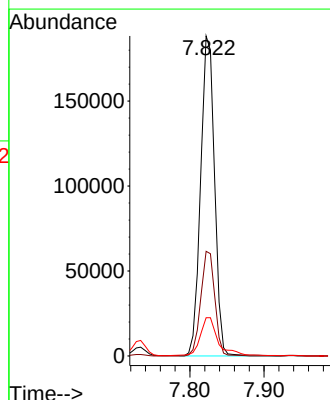
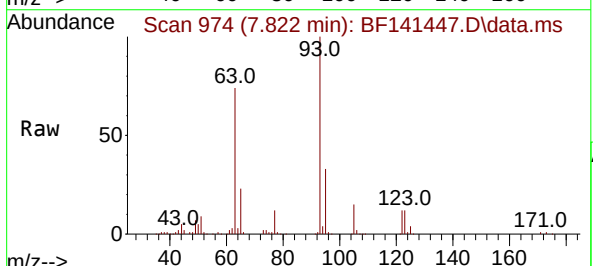
Tgt Ion: 93 Resp: 246023

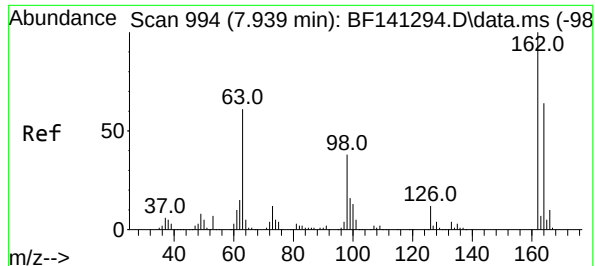
Ion Ratio Lower Upper

93 100

95 32.7 26.2 39.2

123 12.0 10.2 15.4





#29

2,4-Dichlorophenol

Concen: 41.356 ng

RT: 7.939 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:162 Resp: 18672

Ion Ratio Lower Upper

162 100

164 63.9 44.2 84.2

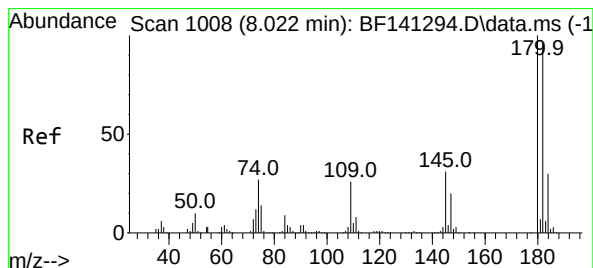
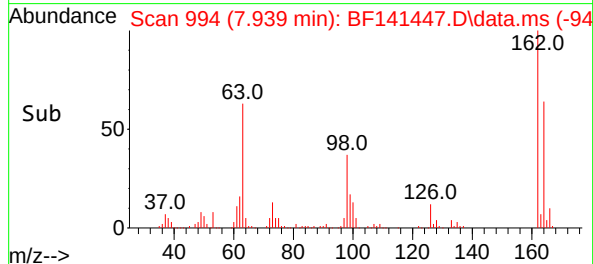
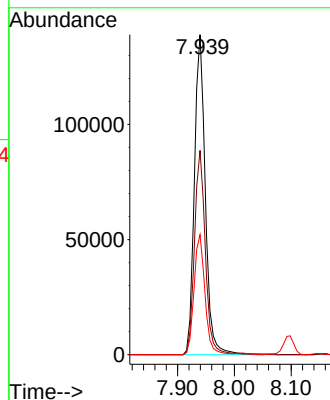
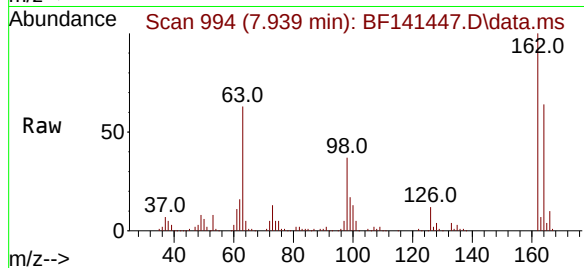
98 37.5 18.2 58.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#30

1,2,4-Trichlorobenzene

Concen: 41.662 ng

RT: 8.016 min Scan# 1007

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

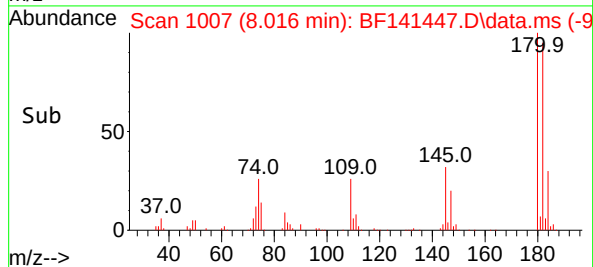
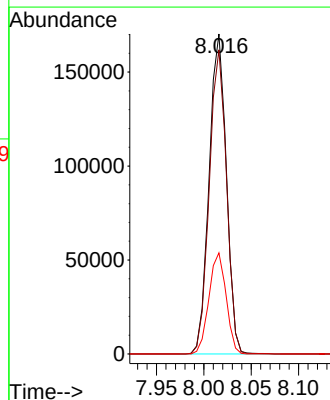
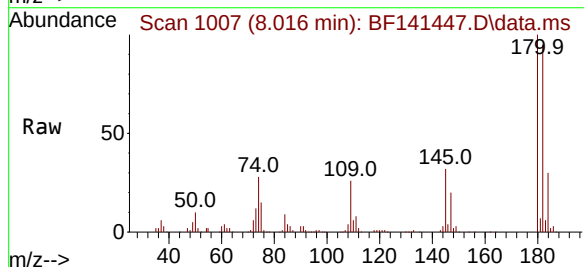
Tgt Ion:180 Resp: 214815

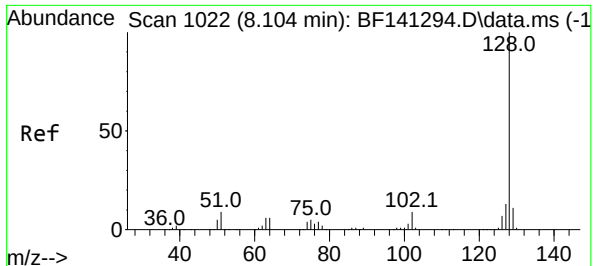
Ion Ratio Lower Upper

180 100

182 95.0 76.4 114.6

145 31.6 24.9 37.3





#31

Naphthalene

Concen: 40.542 ng

RT: 8.098 min Scan# 1021

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:128 Resp: 66935

Ion Ratio Lower Upper

128 100

129 10.9 8.9 13.3

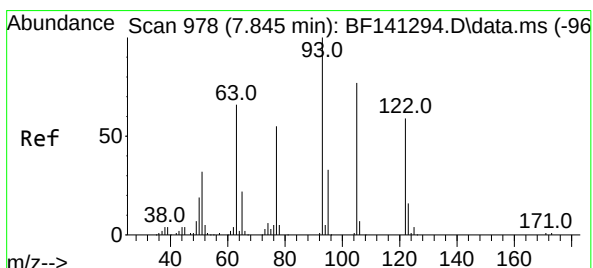
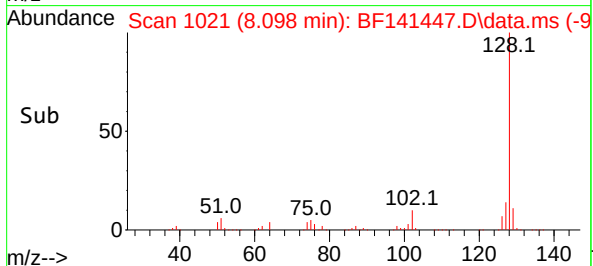
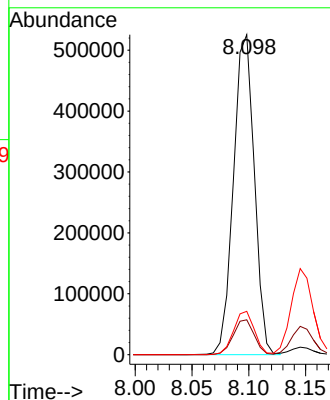
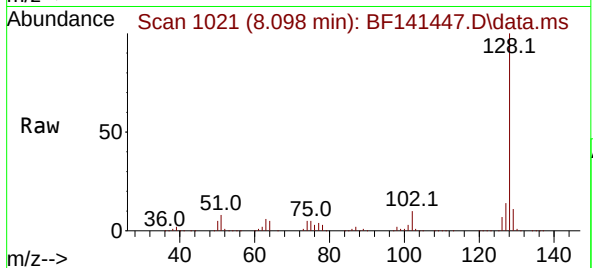
127 13.6 10.6 15.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#32

Benzoic acid

Concen: 42.178 ng

RT: 7.851 min Scan# 979

Delta R.T. -0.030 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

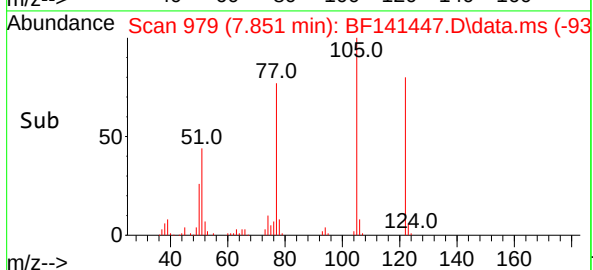
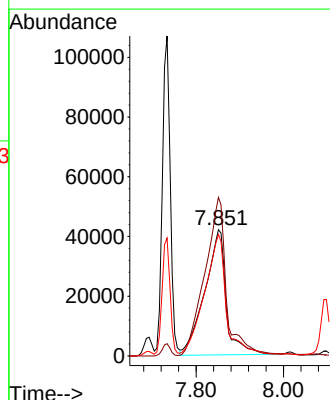
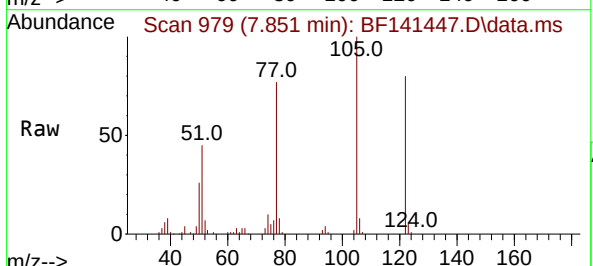
Tgt Ion:122 Resp: 142996

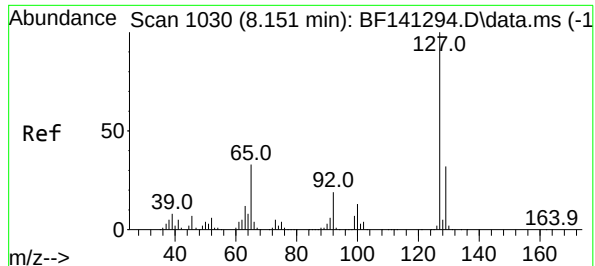
Ion Ratio Lower Upper

122 100

105 125.7 103.4 143.4

77 96.3 70.9 110.9





#33

4-Chloroaniline

Concen: 34.556 ng

RT: 8.145 min Scan# 1029

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:127 Resp: 19346

Ion Ratio Lower Upper

127 100

129 33.0 25.7 38.5

65 34.0 26.4 39.6

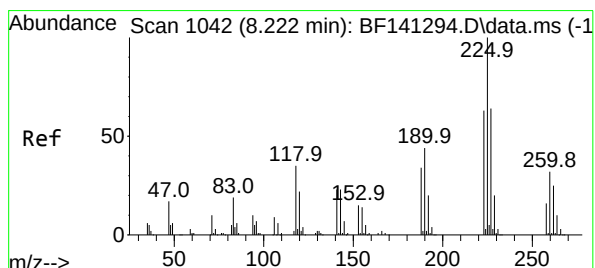
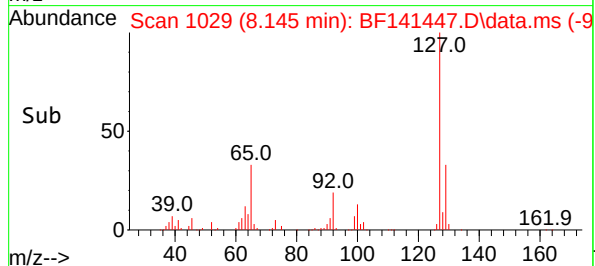
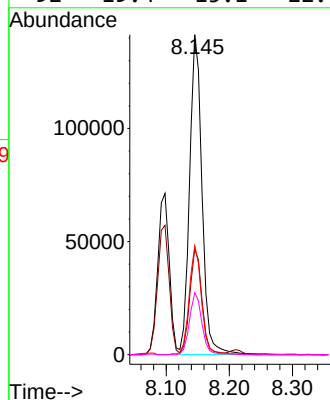
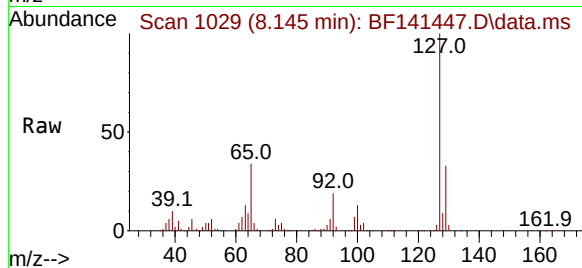
92 19.4 15.1 22.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#34

Hexachlorobutadiene

Concen: 43.752 ng

RT: 8.210 min Scan# 1040

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

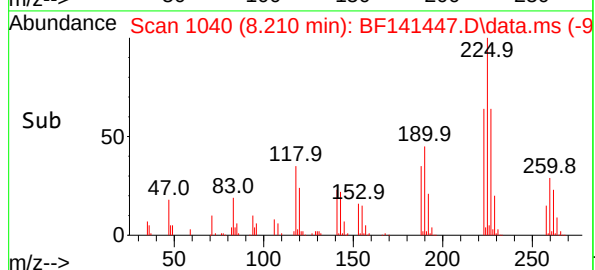
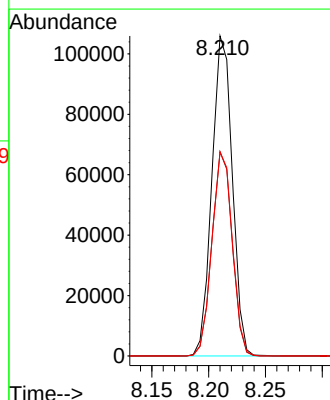
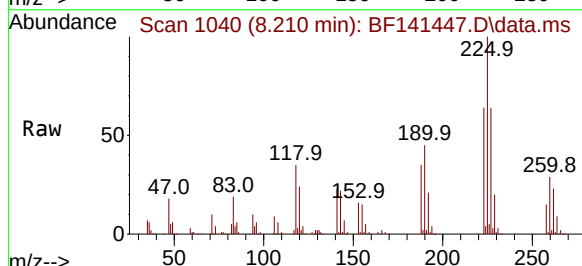
Tgt Ion:225 Resp: 132295

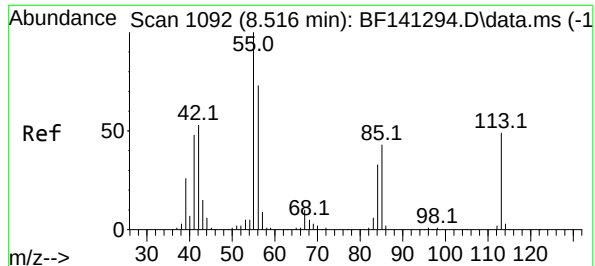
Ion Ratio Lower Upper

225 100

223 63.8 50.4 75.6

227 63.7 51.3 76.9





#35

Caprolactam

Concen: 39.508 ng

RT: 8.516 min Scan# 1092

Delta R.T. -0.030 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:113 Resp: 5825

Ion Ratio Lower Upper

113 100

55 202.4 182.9 222.9

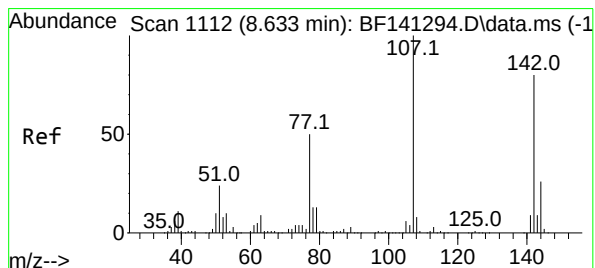
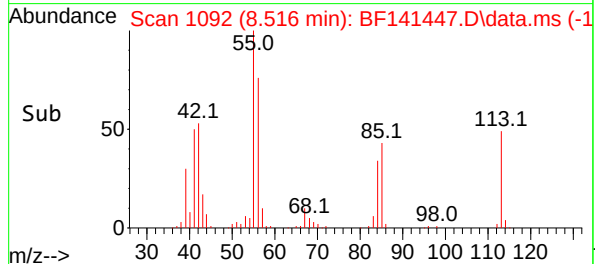
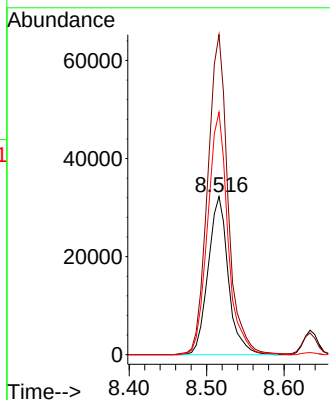
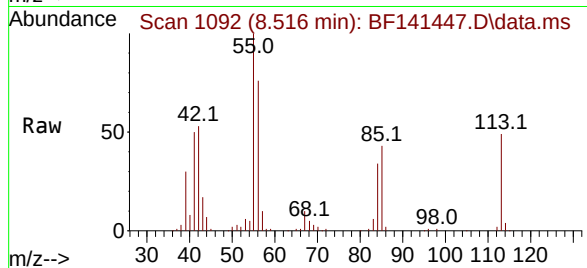
56 153.3 127.9 167.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#36

4-Chloro-3-methylphenol

Concen: 41.835 ng

RT: 8.633 min Scan# 1112

Delta R.T. -0.006 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

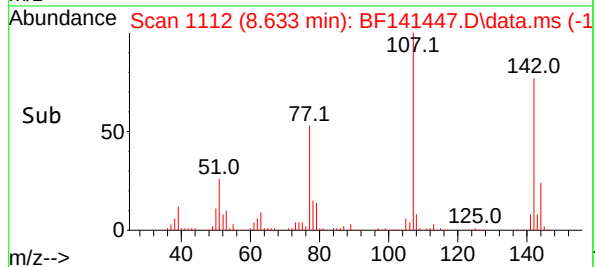
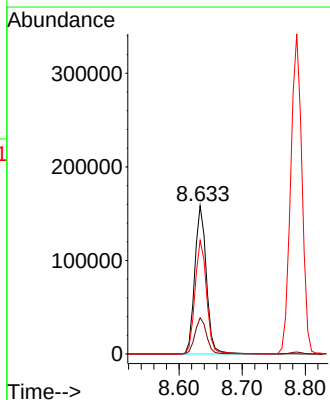
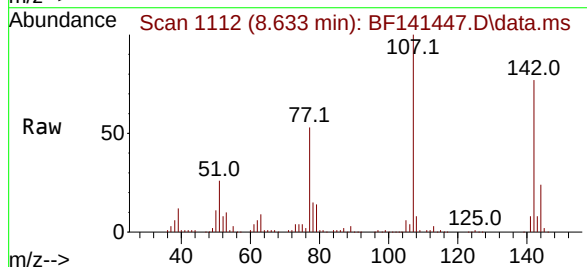
Tgt Ion:107 Resp: 202603

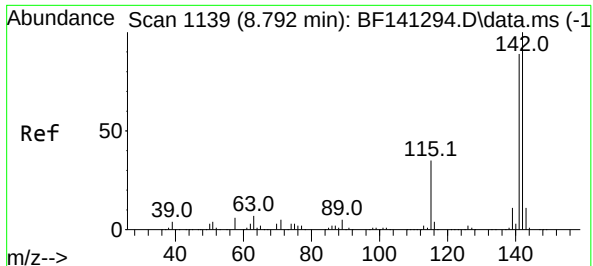
Ion Ratio Lower Upper

107 100

144 24.4 20.7 31.1

142 76.6 63.8 95.8





#37
2-Methylnaphthalene
Concen: 40.313 ng
RT: 8.786 min Scan# 1138
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

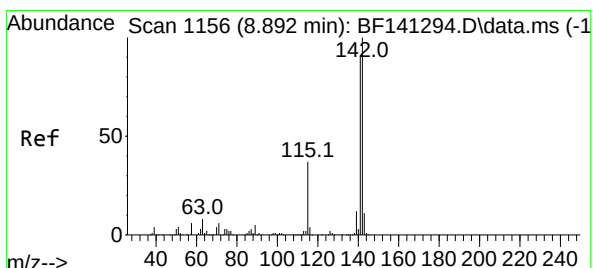
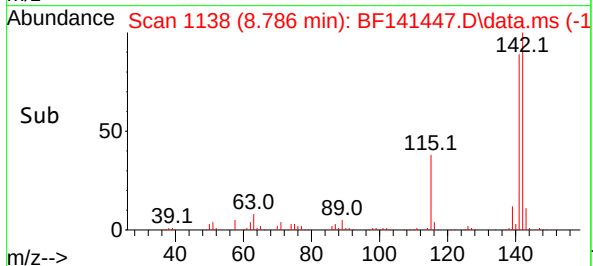
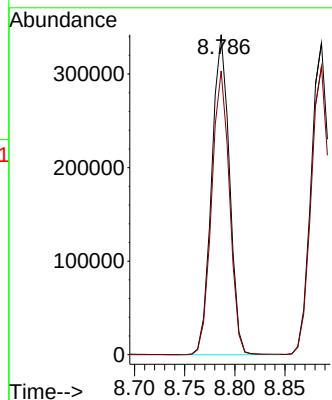
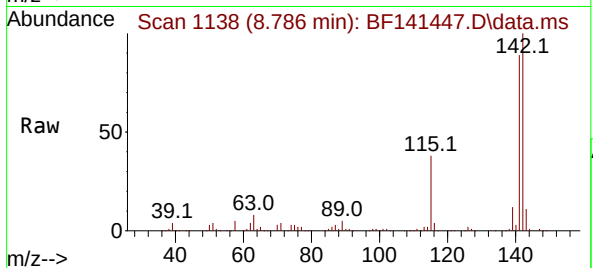
ClientSampleId :

SSTDCCC040

Tgt Ion:142 Resp: 42302
Ion Ratio Lower Upper
142 100
141 88.7 71.3 106.9

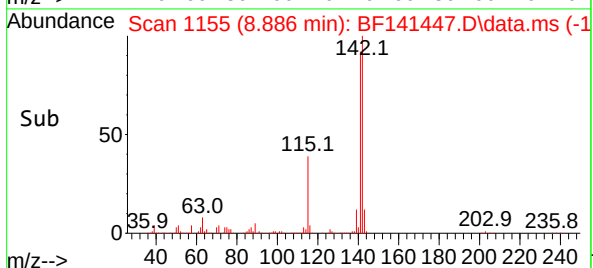
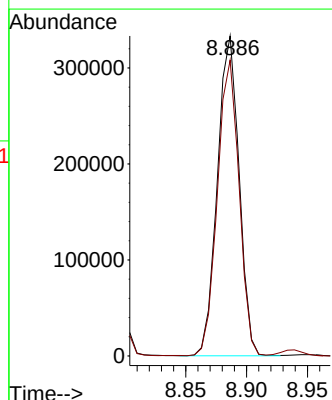
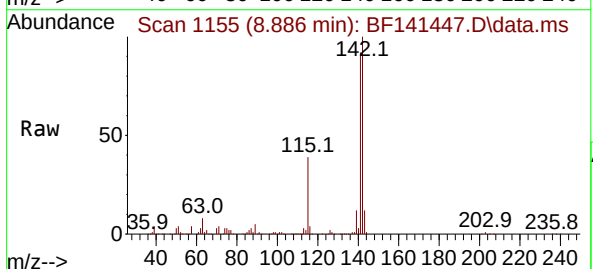
Manual Integrations
APPROVED

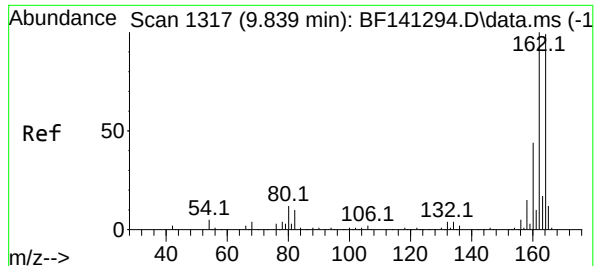
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#38
1-Methylnaphthalene
Concen: 40.101 ng
RT: 8.886 min Scan# 1155
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

Tgt Ion:142 Resp: 413353
Ion Ratio Lower Upper
142 100
141 92.5 73.2 109.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.828 min Scan# 1165

Delta R.T. -0.012 min

Lab File: BF141447.D

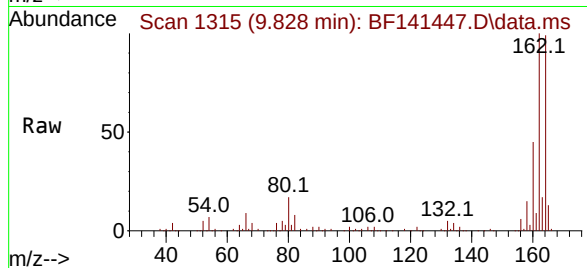
Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040



Tgt Ion:164 Resp: 169230

Ion Ratio Lower Upper

164 100

162 101.0 80.6 121.0

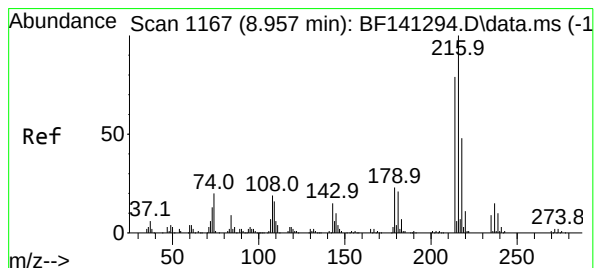
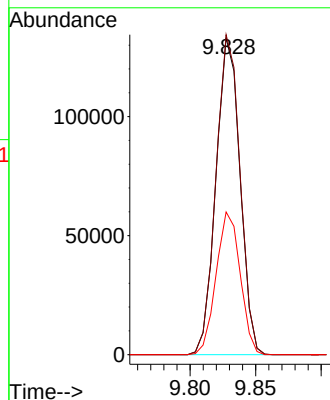
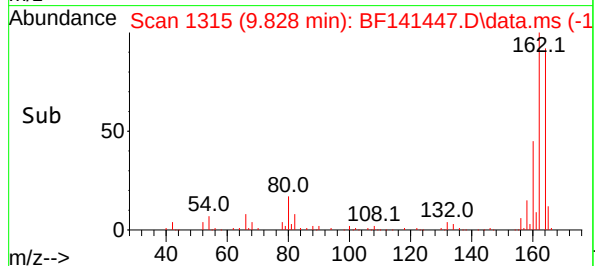
160 45.0 35.8 53.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#40

1,2,4,5-Tetrachlorobenzene

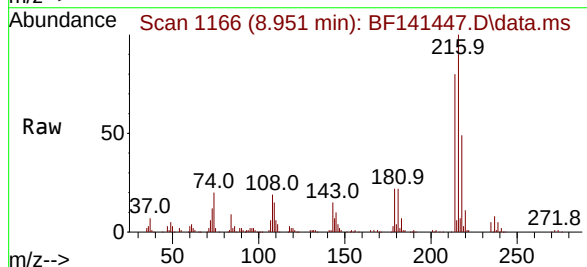
Concen: 40.790 ng

RT: 8.951 min Scan# 1166

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16



Tgt Ion:216 Resp: 196378

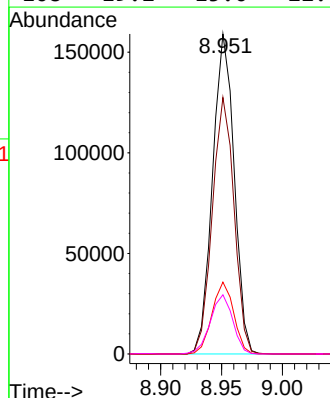
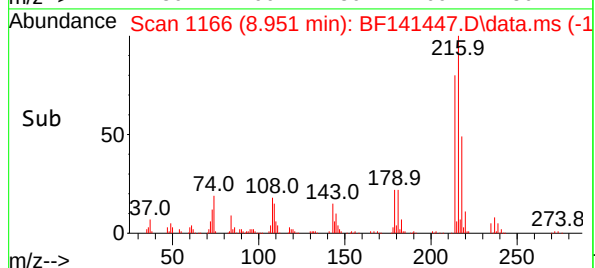
Ion Ratio Lower Upper

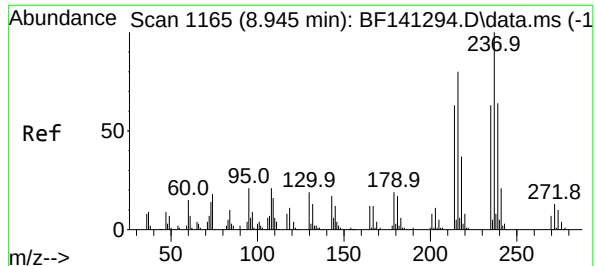
216 100

214 80.4 63.2 94.8

179 22.5 17.8 26.8

108 19.2 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 40.311 ng

RT: 8.939 min Scan# 1164

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:237 Resp: 5731

Ion Ratio Lower Upper

237 100

235 61.0 42.9 82.9

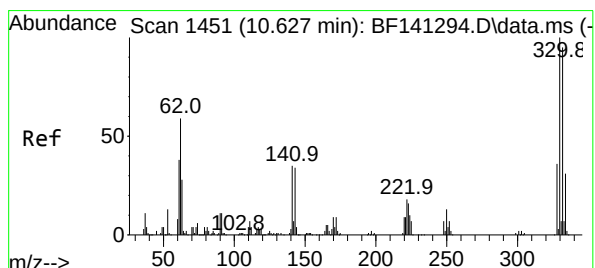
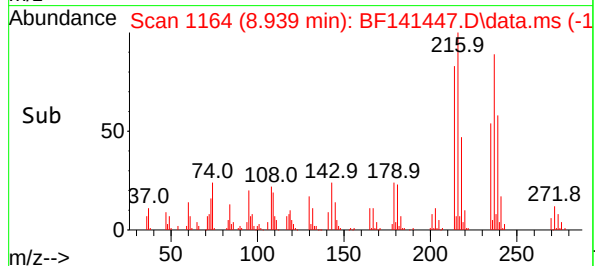
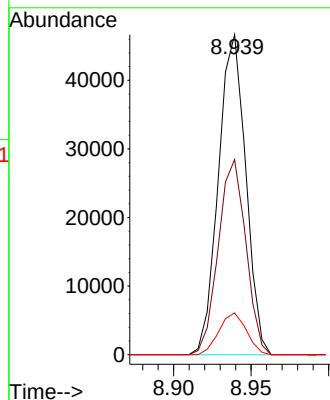
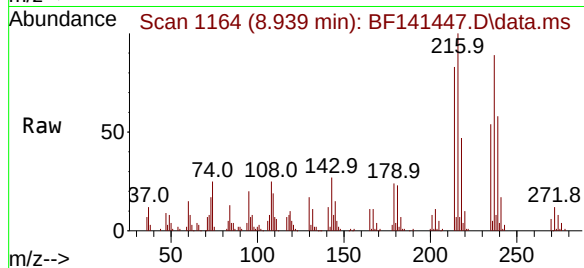
272 13.0 0.0 32.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#42

2,4,6-Tribromophenol

Concen: 88.675 ng

RT: 10.622 min Scan# 1450

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

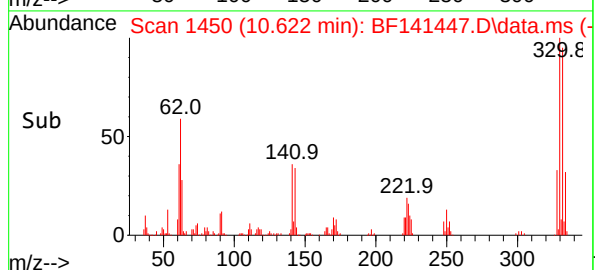
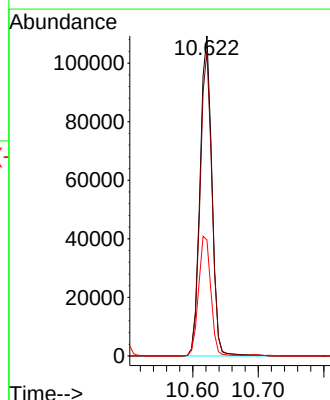
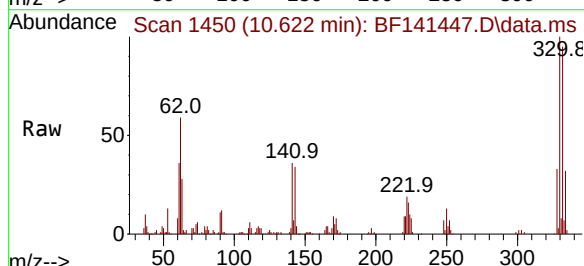
Tgt Ion:330 Resp: 137575

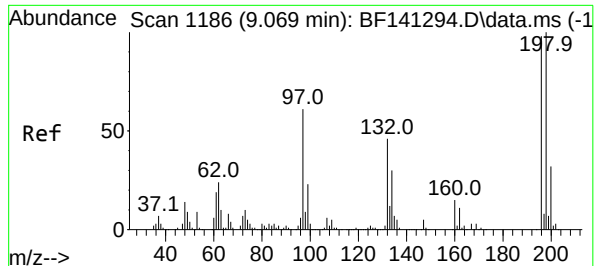
Ion Ratio Lower Upper

330 100

332 94.7 76.1 114.1

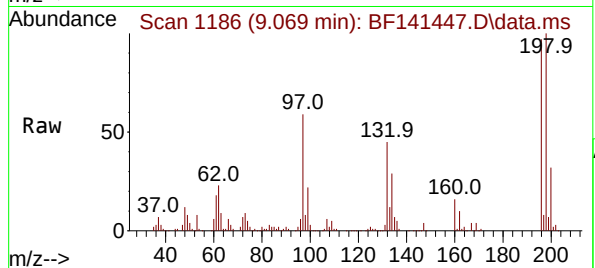
141 38.9 28.8 43.2





#43
2,4,6-Trichlorophenol
Concen: 41.280 ng
RT: 9.069 min Scan# 1186
Delta R.T. -0.006 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

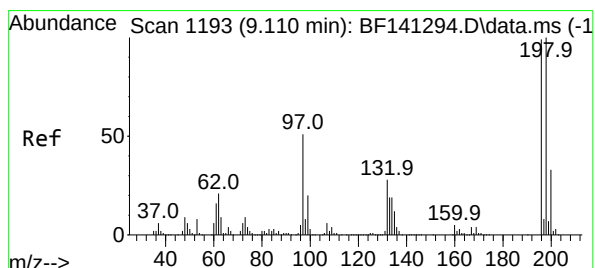
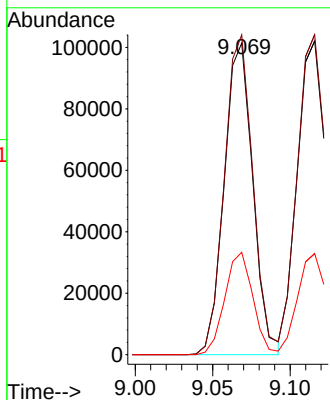
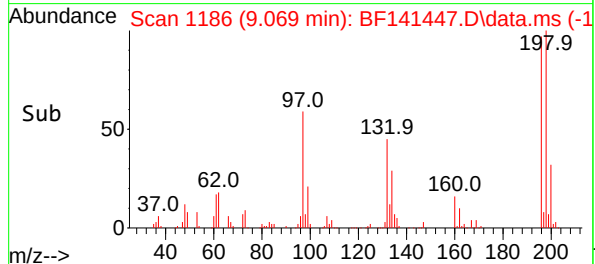
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



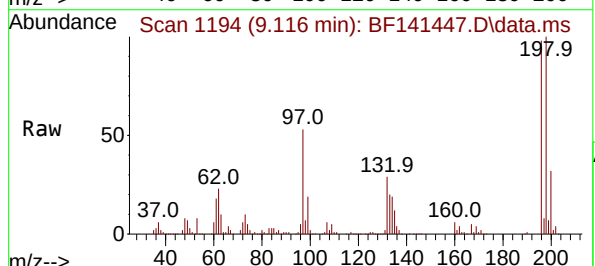
Tgt Ion:196 Resp: 13008
Ion Ratio Lower Upper
196 100
198 102.6 81.8 122.6
200 32.8 26.3 39.5

Manual Integrations
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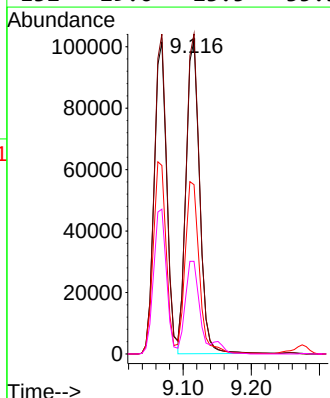
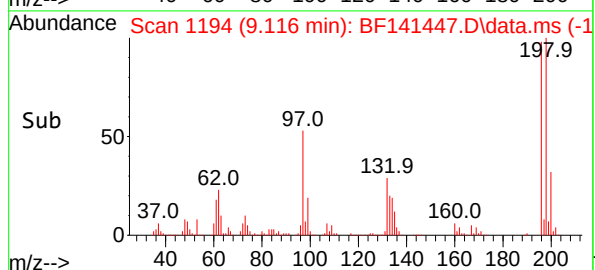
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

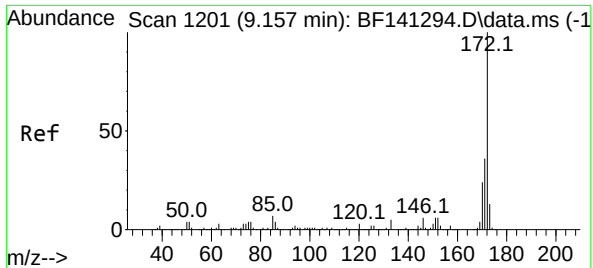


#44
2,4,5-Trichlorophenol
Concen: 40.864 ng
RT: 9.116 min Scan# 1194
Delta R.T. -0.000 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16



Tgt Ion:196 Resp: 140152
Ion Ratio Lower Upper
196 100
198 102.0 80.5 120.7
97 54.0 42.8 64.2
132 29.6 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 82.031 ng

RT: 9.151 min Scan# 1200

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:172 Resp: 90190

Ion Ratio Lower Upper

172 100

171 35.8 28.8 43.2

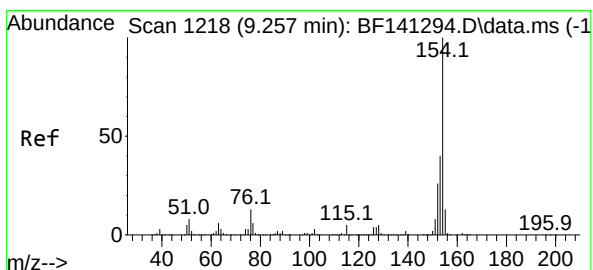
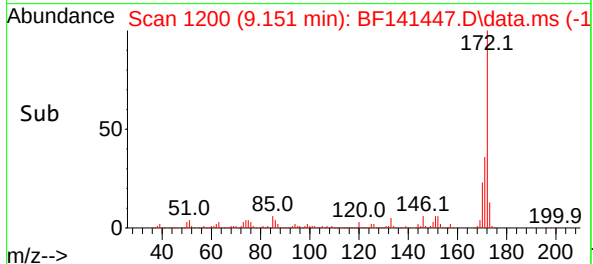
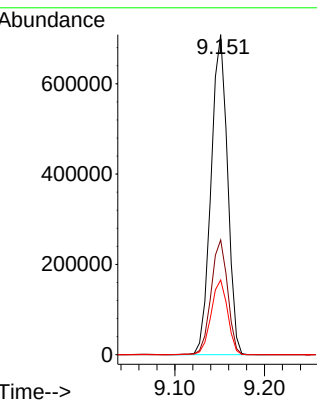
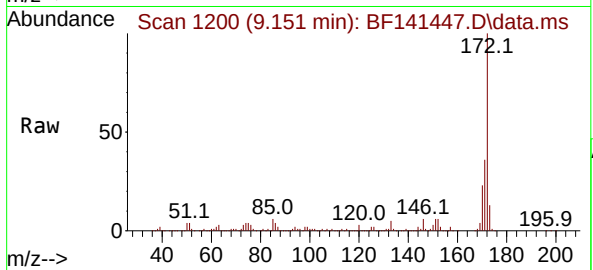
170 23.4 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#46

1,1'-Biphenyl

Concen: 39.526 ng

RT: 9.251 min Scan# 1217

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

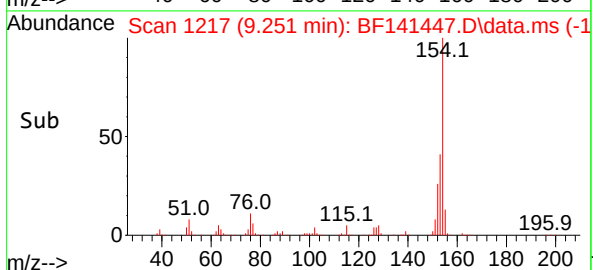
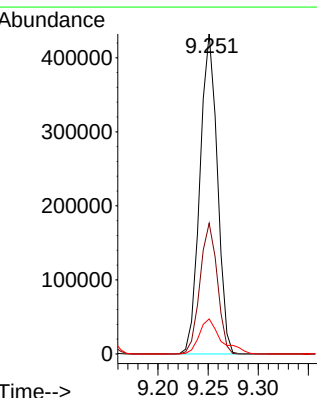
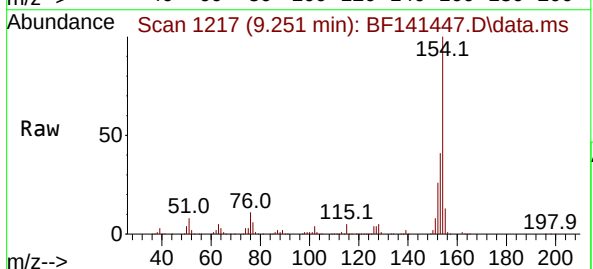
Tgt Ion:154 Resp: 521663

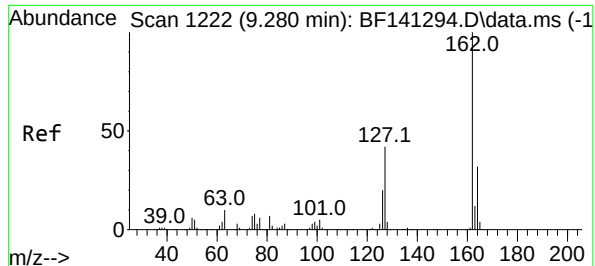
Ion Ratio Lower Upper

154 100

153 40.8 20.0 60.0

76 10.9 0.0 32.8





#47

2-Chloronaphthalene

Concen: 39.690 ng

RT: 9.275 min Scan# 1222

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:162 Resp: 408289

Ion Ratio Lower Upper

162 100

127 42.2 33.7 50.5

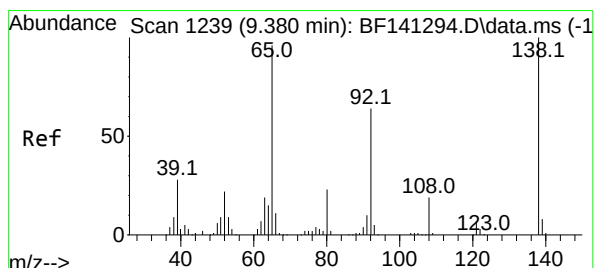
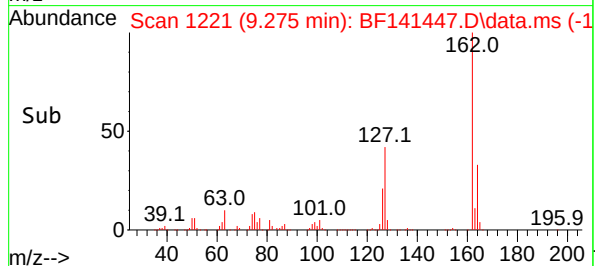
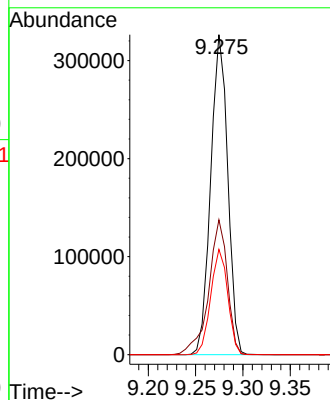
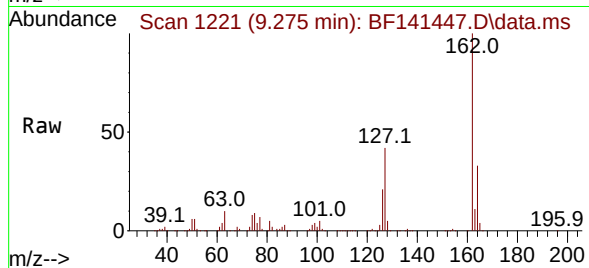
164 32.9 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#48

2-Nitroaniline

Concen: 42.611 ng

RT: 9.375 min Scan# 1238

Delta R.T. -0.006 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

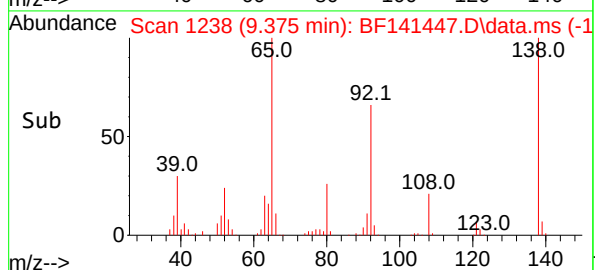
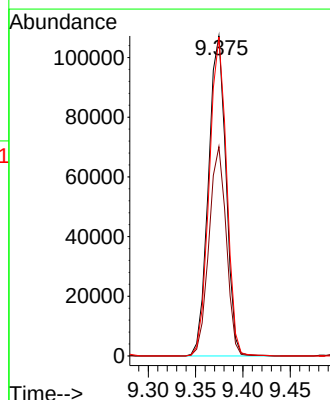
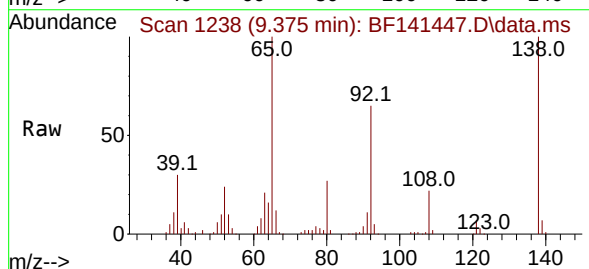
Tgt Ion: 65 Resp: 137877

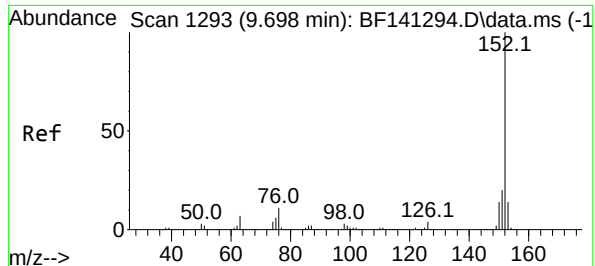
Ion Ratio Lower Upper

65 100

92 65.4 53.3 79.9

138 99.7 83.6 125.4





#49

Acenaphthylene

Concen: 40.477 ng

RT: 9.692 min Scan# 1293

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:152 Resp: 58286

Ion Ratio Lower Upper

152 100

151 20.4 16.2 24.2

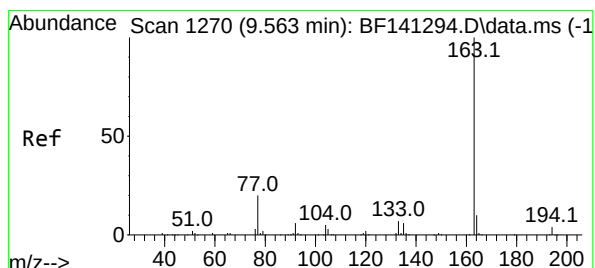
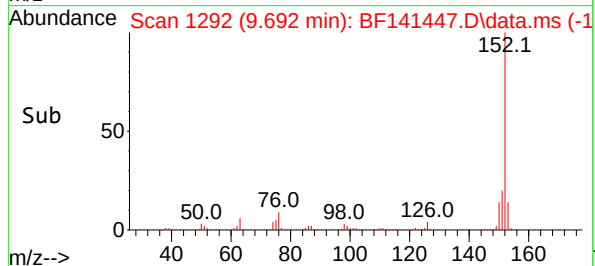
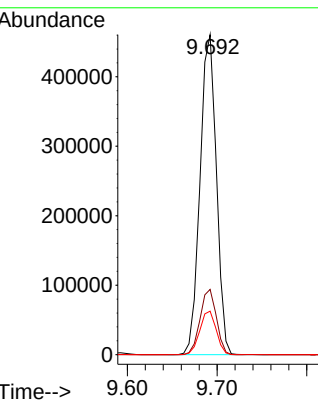
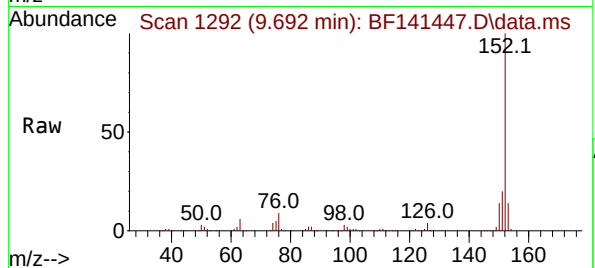
153 13.6 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#50

Dimethylphthalate

Concen: 40.461 ng

RT: 9.551 min Scan# 1268

Delta R.T. -0.018 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

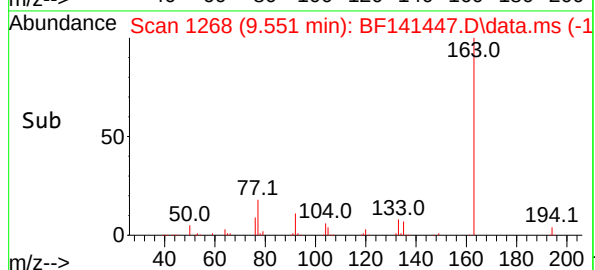
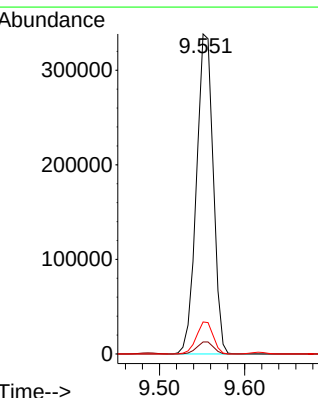
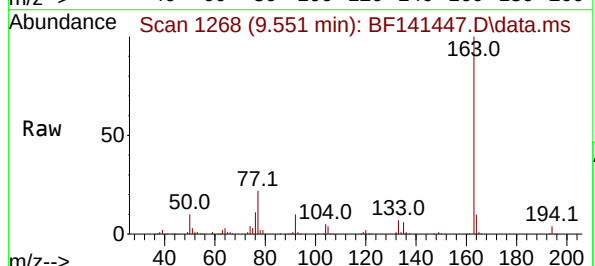
Tgt Ion:163 Resp: 462460

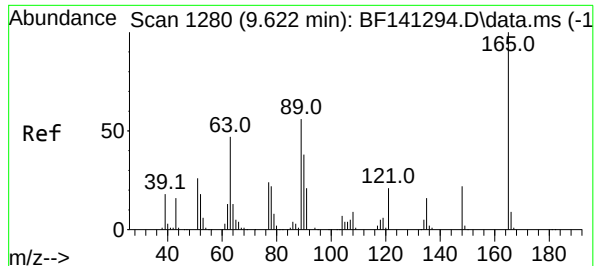
Ion Ratio Lower Upper

163 100

194 3.7 3.0 4.6

164 10.0 8.0 12.0





#51
2,6-Dinitrotoluene
Concen: 40.902 ng
RT: 9.616 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

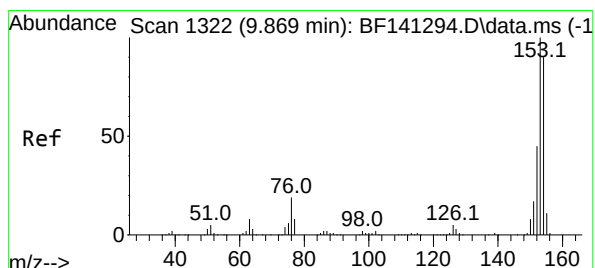
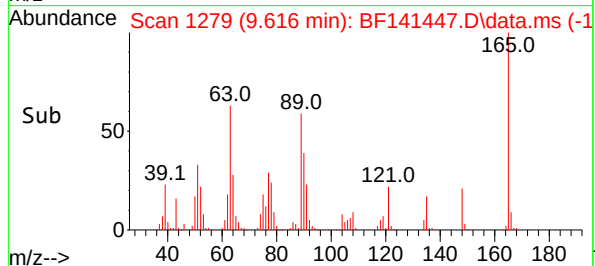
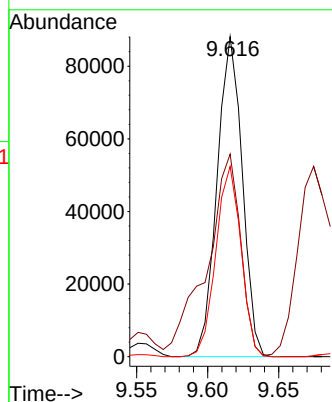
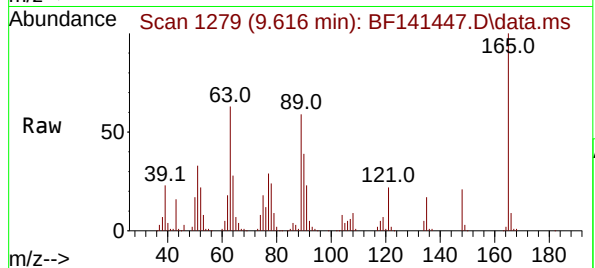
ClientSampleId :

SSTDCCC040

Tgt Ion:165 Resp: 108549
Ion Ratio Lower Upper
165 100
63 63.3 48.1 72.1
89 59.5 44.9 67.3

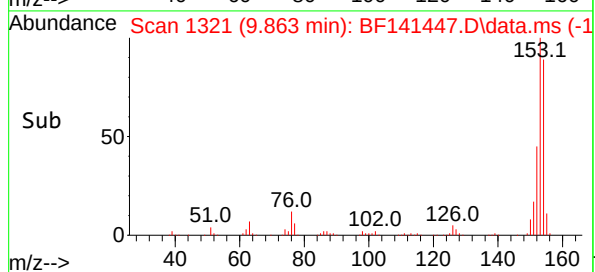
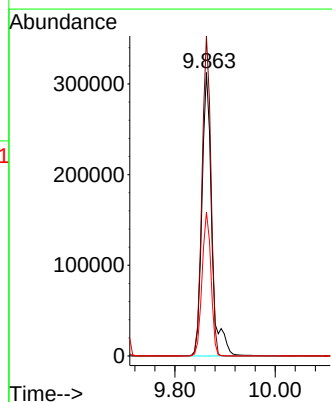
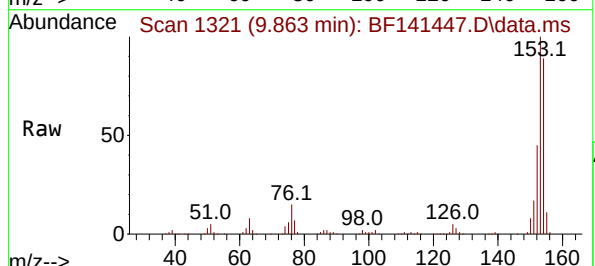
Manual Integrations
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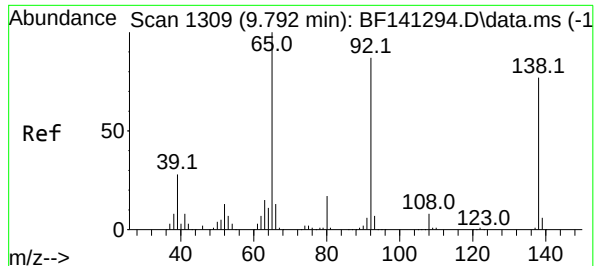
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#52
Acenaphthene
Concen: 41.234 ng
RT: 9.863 min Scan# 1321
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

Tgt Ion:154 Resp: 424189
Ion Ratio Lower Upper
154 100
153 112.9 89.0 133.4
152 50.8 40.2 60.4





#53

3-Nitroaniline

Concen: 40.648 ng

RT: 9.786 min Scan# 1308

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:138 Resp: 105728

Ion Ratio Lower Upper

138 100

108 11.2 8.6 12.8

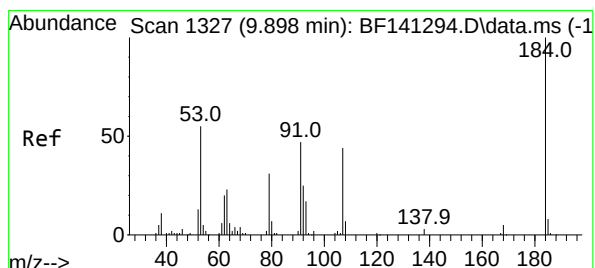
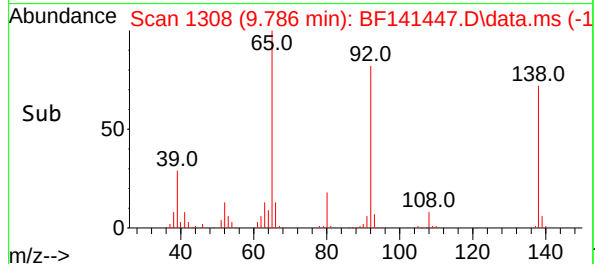
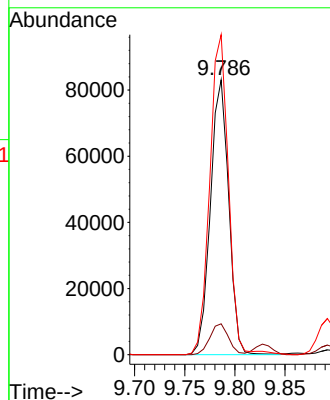
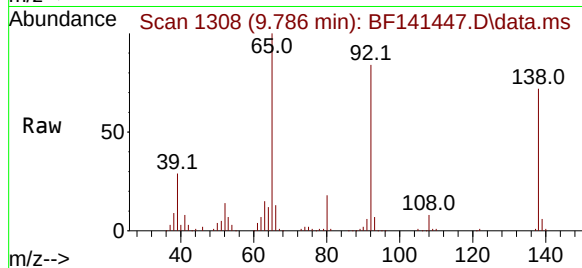
92 116.4 91.0 136.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#54

2,4-Dinitrophenol

Concen: 46.121 ng

RT: 9.892 min Scan# 1326

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

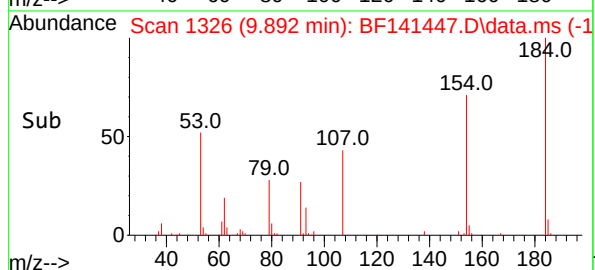
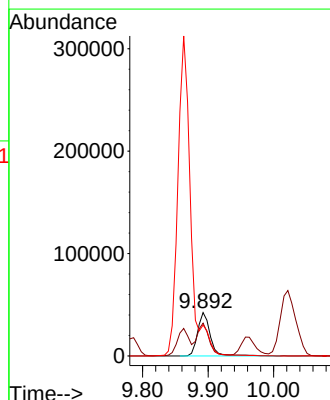
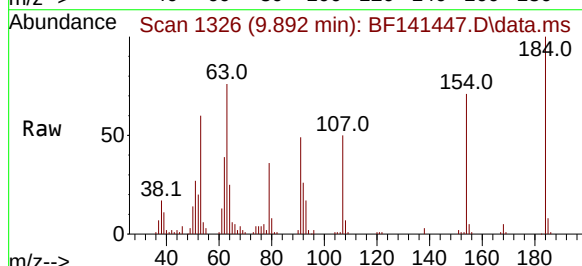
Tgt Ion:184 Resp: 56897

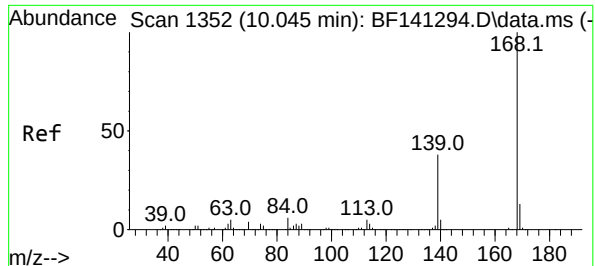
Ion Ratio Lower Upper

184 100

63 75.9 54.1 81.1

154 71.5 50.7 76.1





#55

Dibenzenofuran

Concen: 40.604 ng

RT: 10.033 min Scan# 1350

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:168 Resp: 55912

Ion Ratio Lower Upper

168 100

139 41.5 30.6 46.0

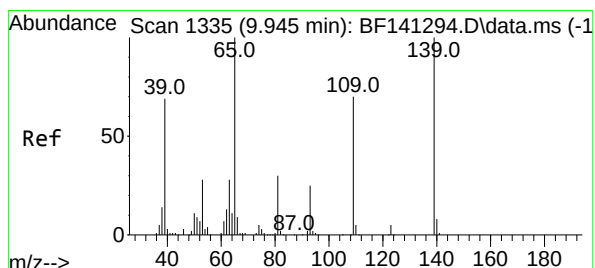
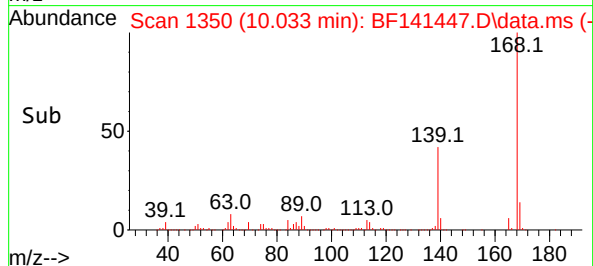
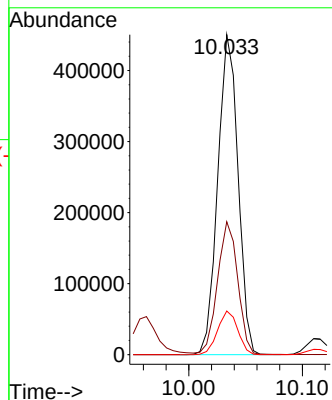
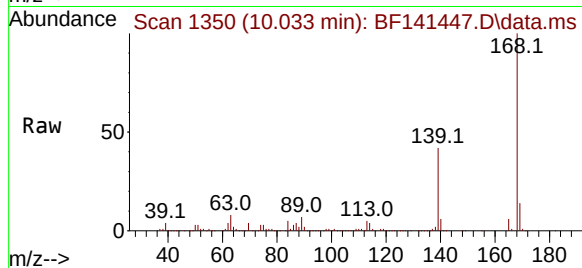
169 13.7 10.8 16.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#56

4-Nitrophenol

Concen: 41.757 ng

RT: 9.963 min Scan# 1338

Delta R.T. 0.006 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

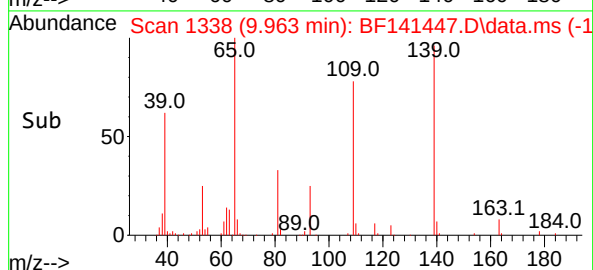
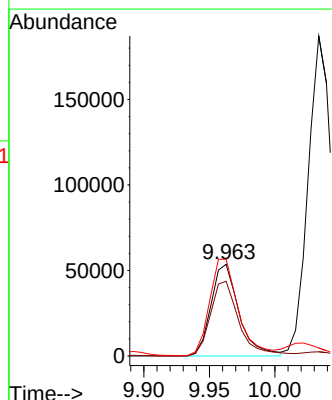
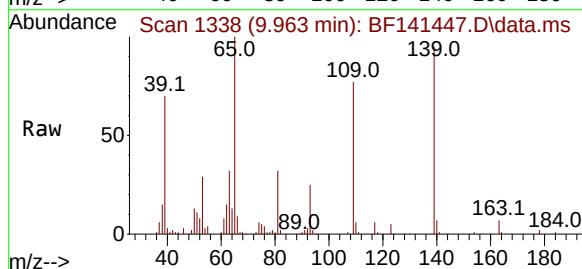
Tgt Ion:139 Resp: 79433

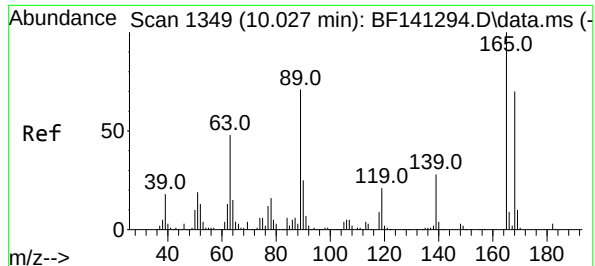
Ion Ratio Lower Upper

139 100

109 81.6 50.2 90.2

65 105.7 80.6 120.6





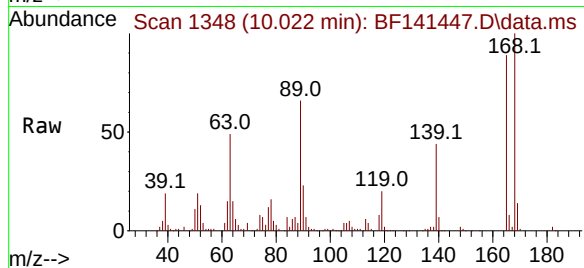
#57
2,4-Dinitrotoluene
Concen: 43.255 ng
RT: 10.022 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

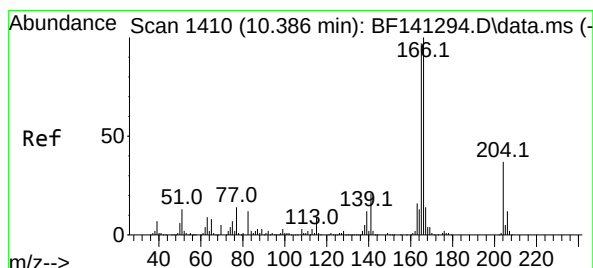
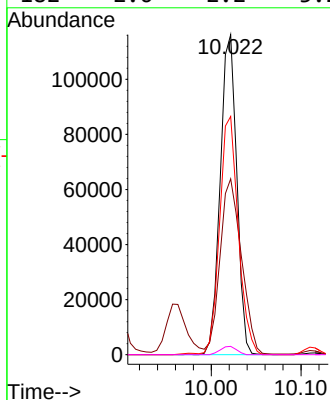
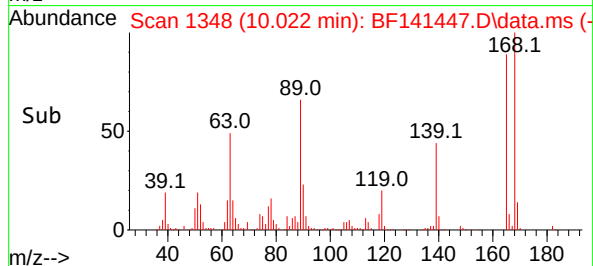
SSTDCCC040



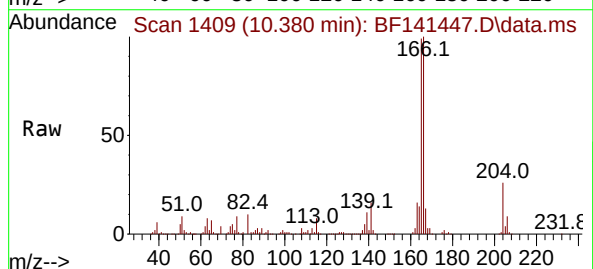
Tgt Ion:165 Resp: 14862
Ion Ratio Lower Upper
165 100
63 55.0 39.2 58.8
89 74.4 56.9 85.3
182 2.6 2.2 3.2

Manual Integrations
APPROVED

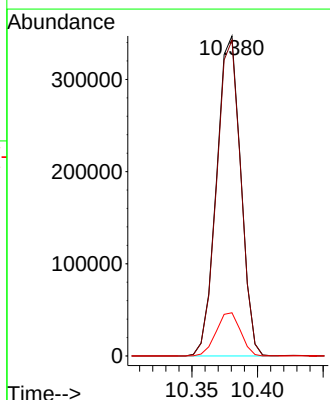
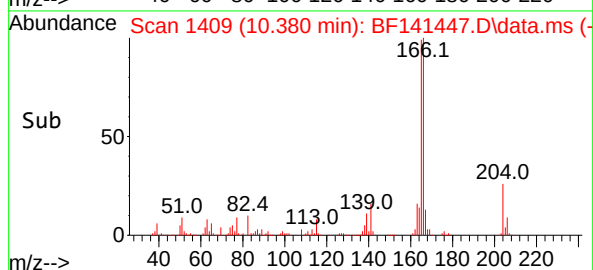
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

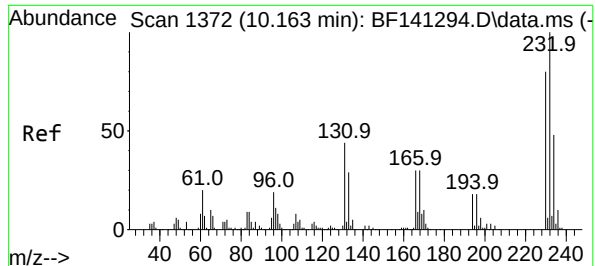


#58
Fluorene
Concen: 41.681 ng
RT: 10.380 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16



Tgt Ion:166 Resp: 445212
Ion Ratio Lower Upper
166 100
165 98.7 77.5 116.3
167 13.5 10.9 16.3





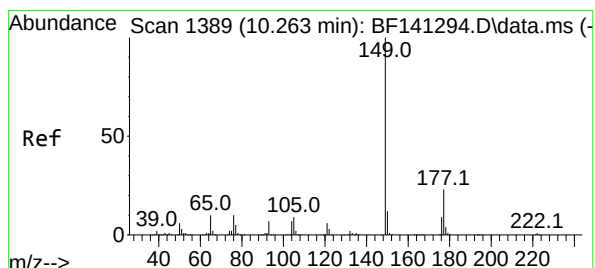
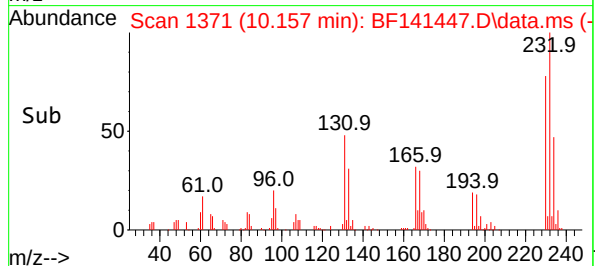
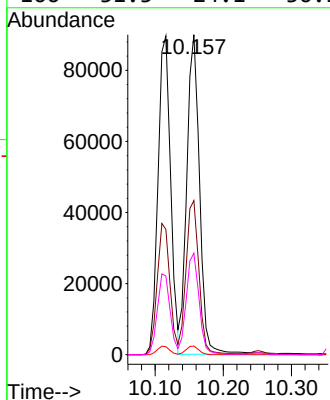
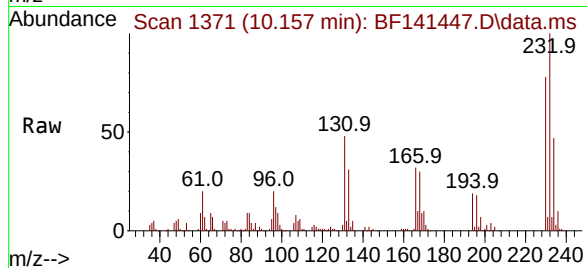
#59
2,3,4,6-Tetrachlorophenol
Concen: 43.009 ng
RT: 10.157 min Scan# 1371
Delta R.T. -0.006 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:232 Resp: 11604
Ion Ratio Lower Upper
232 100
131 49.0 36.4 54.6
130 2.7 1.9 2.9
166 31.3 24.1 36.1

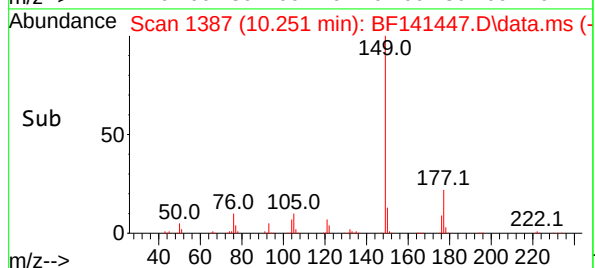
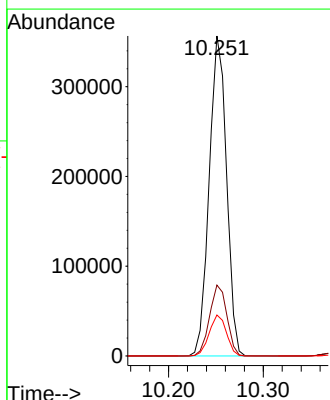
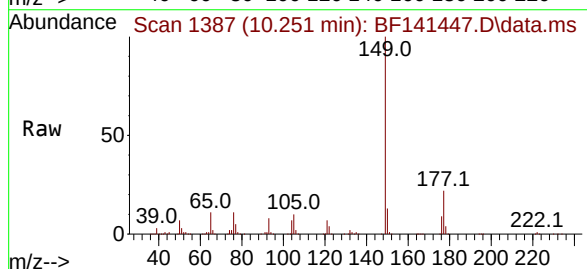
Manual Integrations
APPROVED

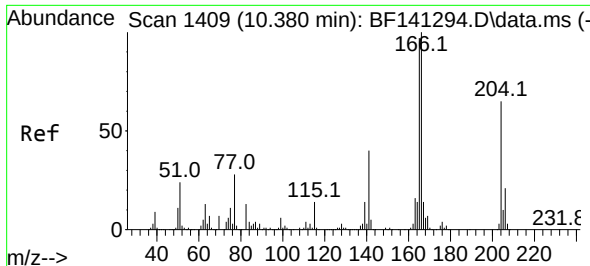
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#60
Diethylphthalate
Concen: 40.767 ng
RT: 10.251 min Scan# 1387
Delta R.T. -0.018 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

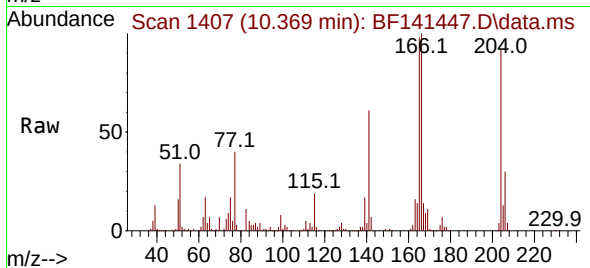
Tgt Ion:149 Resp: 451800
Ion Ratio Lower Upper
149 100
177 22.1 18.5 27.7
150 12.8 10.0 15.0





#61
4-Chlorophenyl-phenylether
Concen: 41.942 ng
RT: 10.369 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

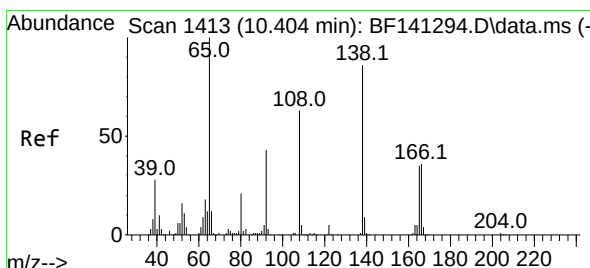
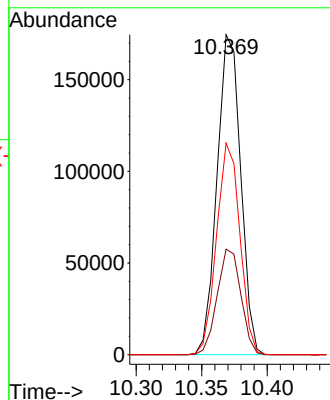
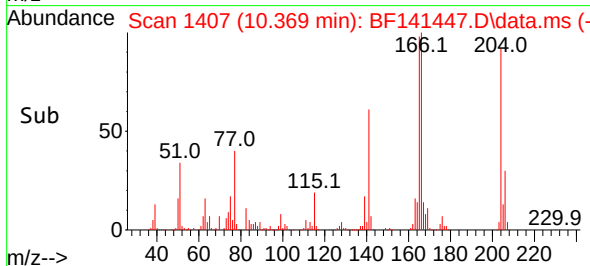
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



Tgt Ion:204 Resp: 21883
Ion Ratio Lower Upper
204 100
206 33.0 25.9 38.9
141 66.1 49.5 74.3

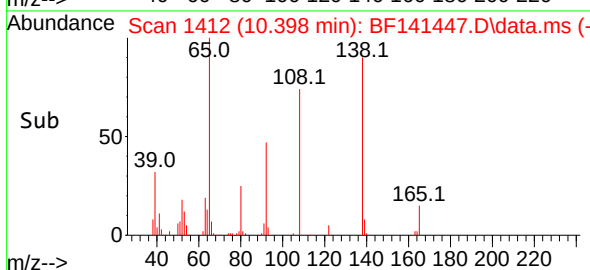
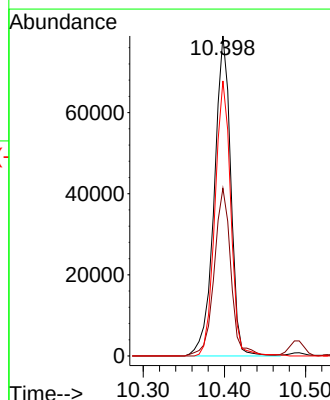
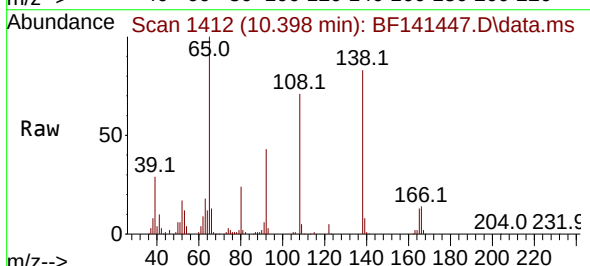
Manual Integrations
APPROVED

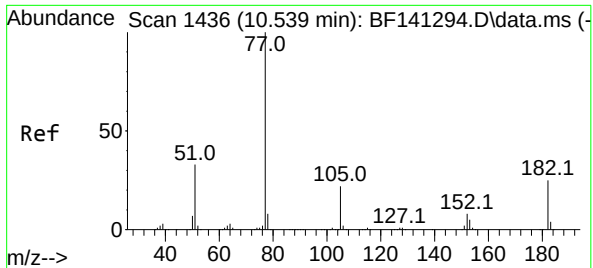
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#62
4-Nitroaniline
Concen: 43.805 ng
RT: 10.398 min Scan# 1412
Delta R.T. -0.018 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

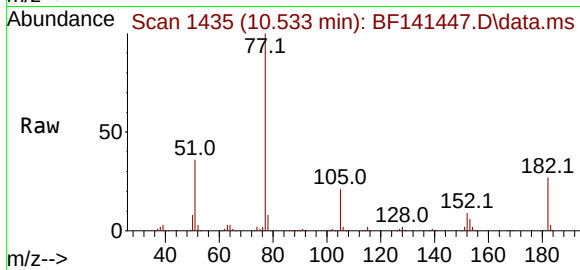
Tgt Ion:138 Resp: 112018
Ion Ratio Lower Upper
138 100
92 52.4 30.1 70.1
108 85.9 53.1 93.1





#63
Azobenzene
Concen: 39.861 ng
RT: 10.533 min Scan# 1436
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

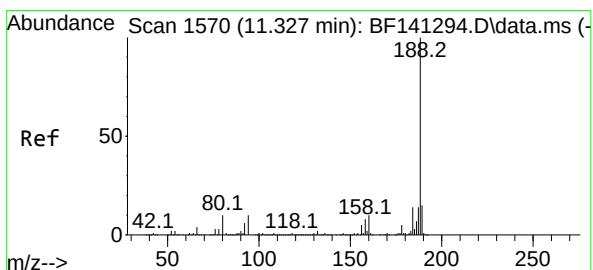
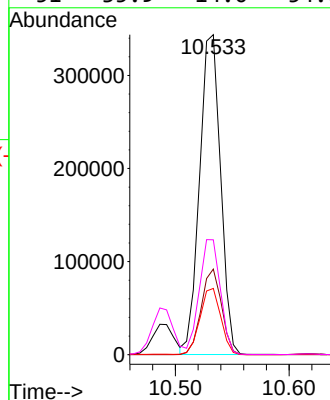
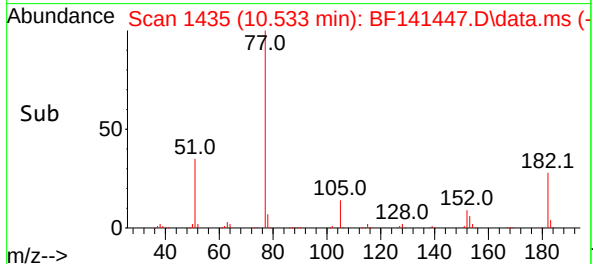
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



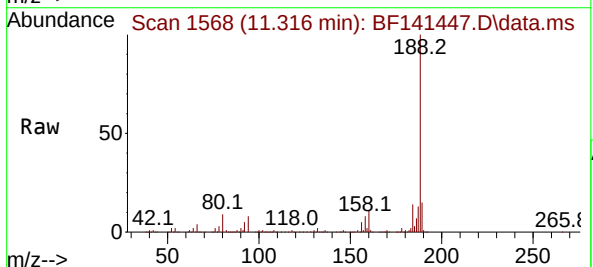
Tgt Ion: 77 Resp: 442185
Ion Ratio Lower Upper
77 100
182 26.8 5.1 45.1
105 20.7 1.8 41.8
51 35.9 14.0 54.0

Manual Integrations
APPROVED

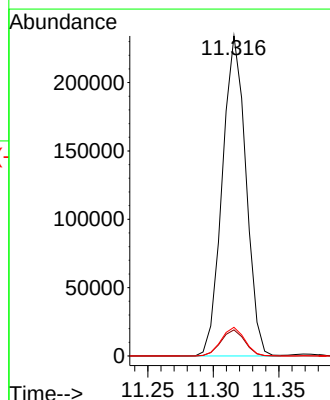
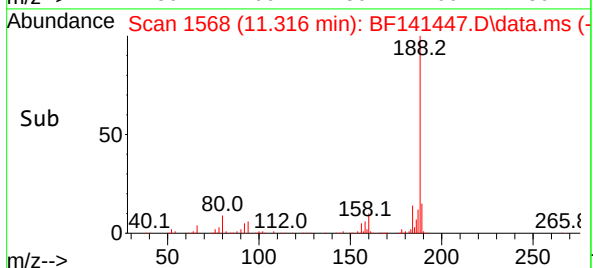
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

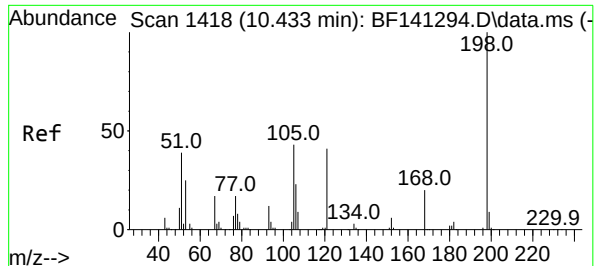


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16



Tgt Ion:188 Resp: 293274
Ion Ratio Lower Upper
188 100
94 8.2 7.8 11.6
80 8.9 8.2 12.4





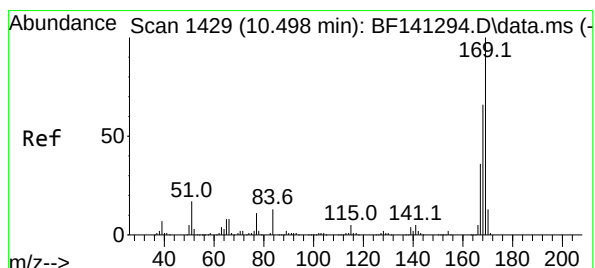
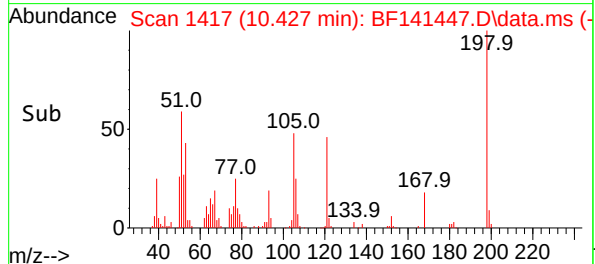
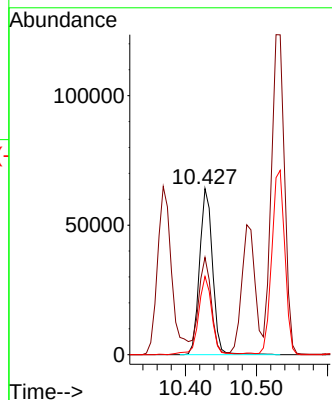
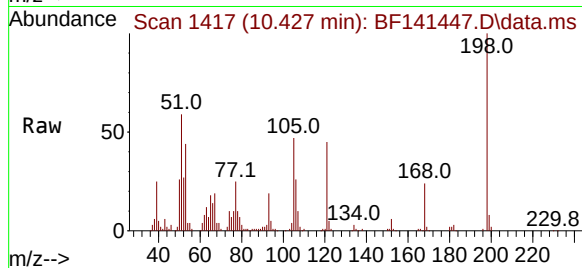
#65
4,6-Dinitro-2-methylphenol
Concen: 47.093 ng
RT: 10.427 min Scan# 1418
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:198 Resp: 8169
Ion Ratio Lower Upper
198 100
51 58.6 33.4 73.4
105 47.1 24.4 64.4

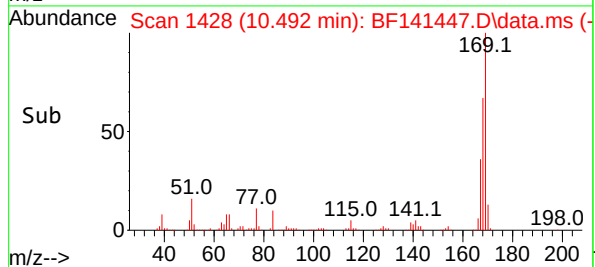
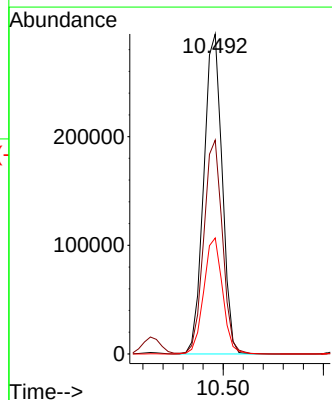
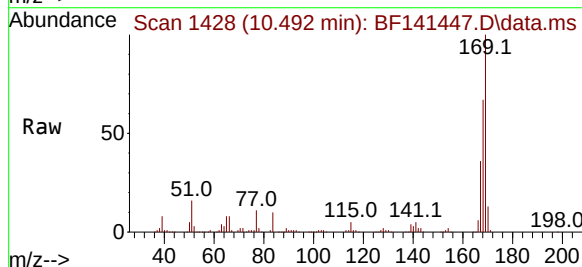
Manual Integrations
APPROVED

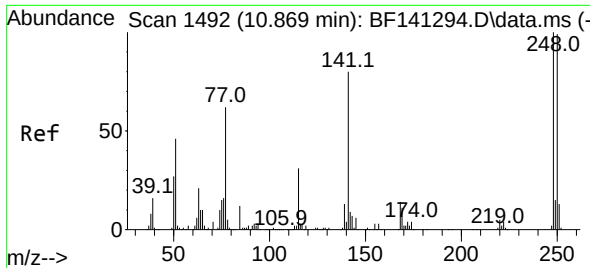
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#66
n-Nitrosodiphenylamine
Concen: 39.596 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

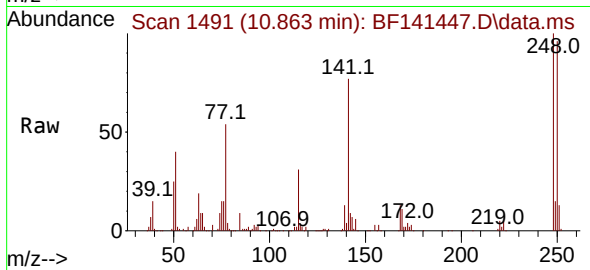
Tgt Ion:169 Resp: 375589
Ion Ratio Lower Upper
169 100
168 66.9 53.0 79.4
167 36.2 28.8 43.2





#67
4-Bromophenyl-phenylether
Concen: 41.034 ng
RT: 10.863 min Scan# 1491
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

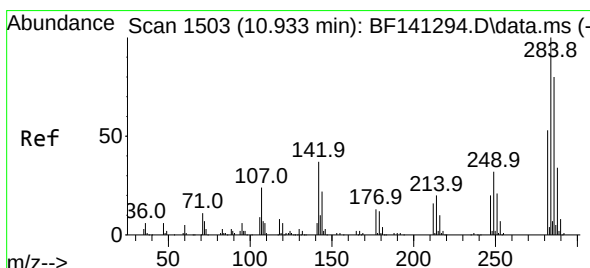
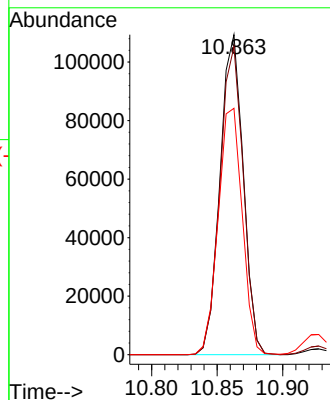
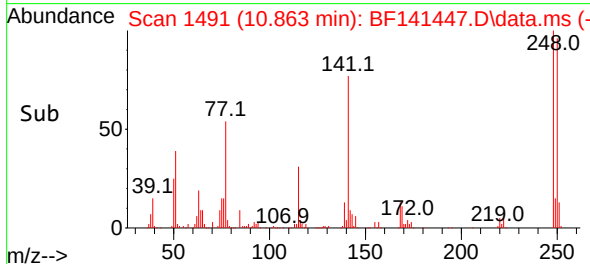
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



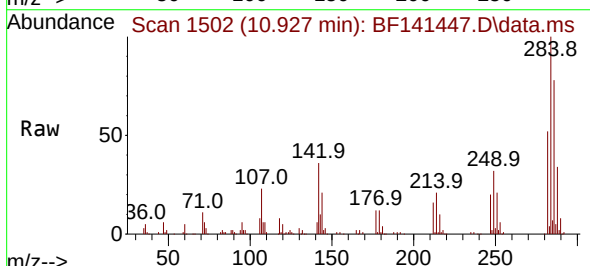
Tgt Ion:248 Resp: 134728
Ion Ratio Lower Upper
248 100
250 96.2 79.0 118.4
141 77.0 63.7 95.5

Manual Integrations
APPROVED

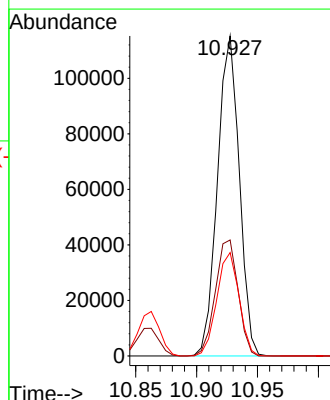
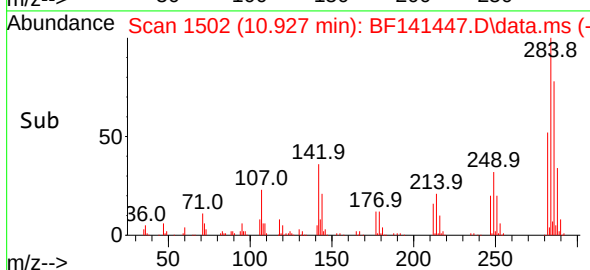
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

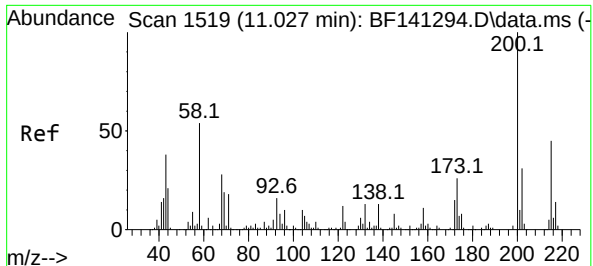


#68
Hexachlorobenzene
Concen: 41.264 ng
RT: 10.927 min Scan# 1502
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16



Tgt Ion:284 Resp: 143713
Ion Ratio Lower Upper
284 100
142 36.3 29.5 44.3
249 32.3 25.4 38.2





#69

Atrazine

Concen: 37.984 ng

RT: 11.016 min Scan# 11

Delta R.T. -0.018 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:200 Resp: 12046

Ion Ratio Lower Upper

200 100

173 25.1 5.9 45.9

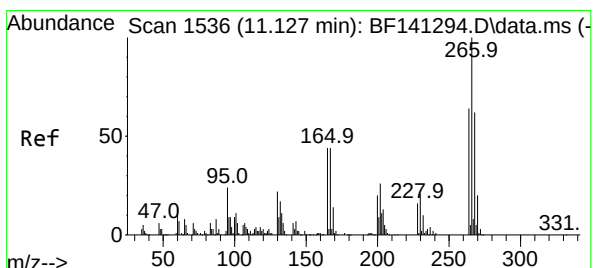
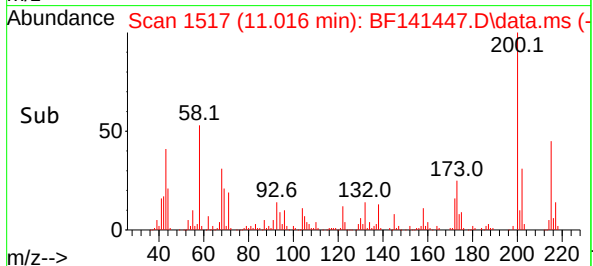
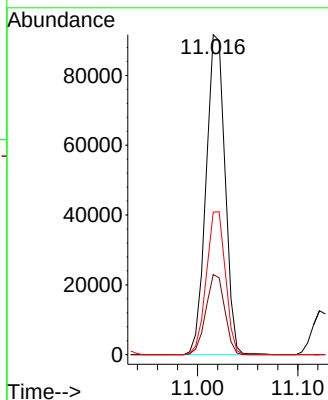
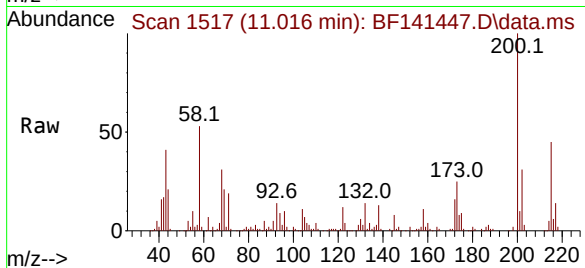
215 44.6 25.2 65.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#70

Pentachlorophenol

Concen: 43.736 ng

RT: 11.122 min Scan# 1535

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

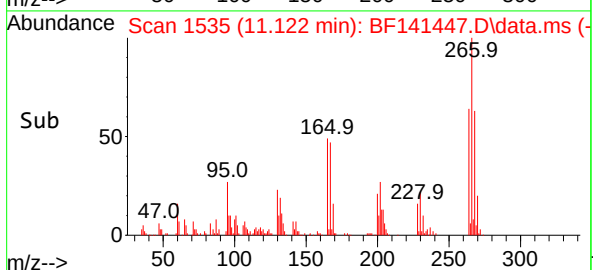
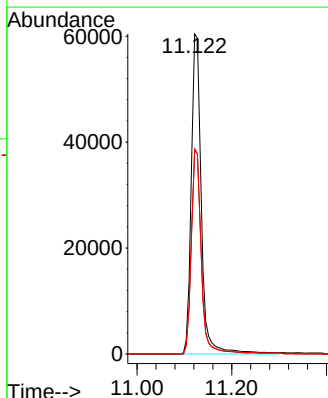
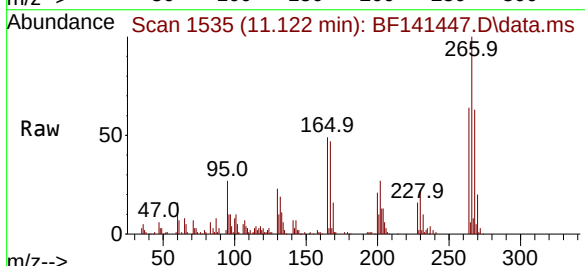
Tgt Ion:266 Resp: 89197

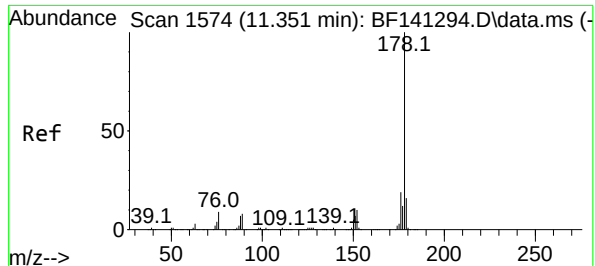
Ion Ratio Lower Upper

266 100

268 63.5 49.9 74.9

264 64.1 51.0 76.4





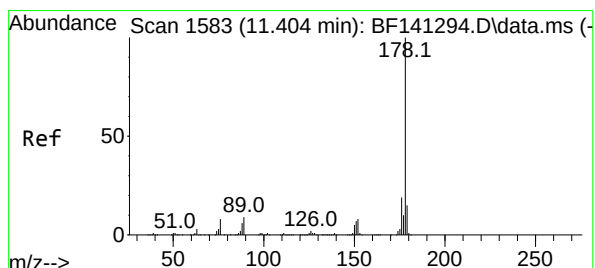
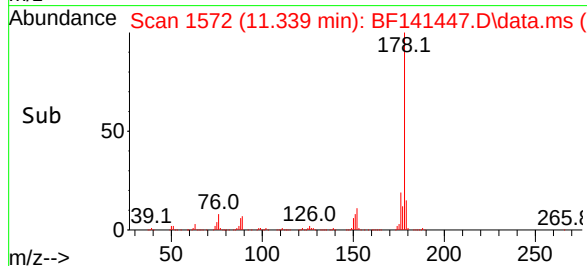
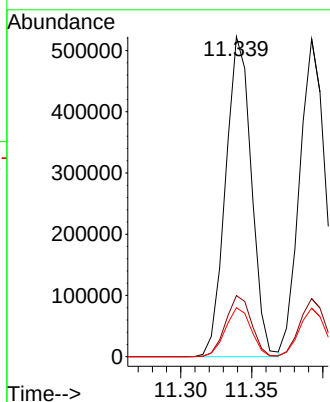
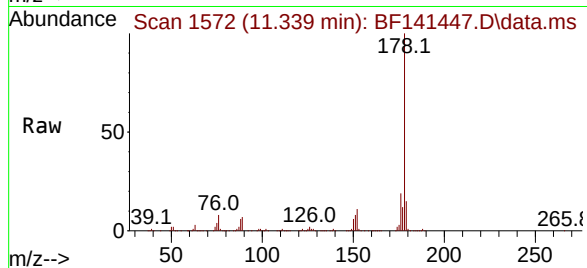
#71
Phenanthrene
Concen: 41.848 ng
RT: 11.339 min Scan# 1572
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

Instrument :
BNA_F
ClientSampleId :
SSTDCCC040

Tgt Ion:178 Resp: 65972
Ion Ratio Lower Upper
178 100
176 19.1 15.3 22.9
179 15.3 12.5 18.7

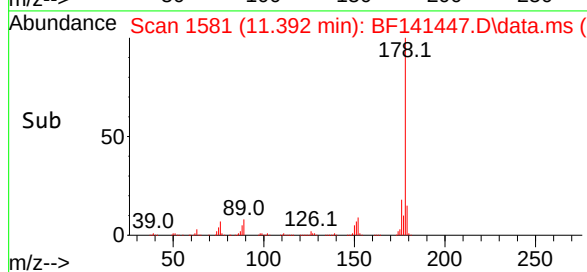
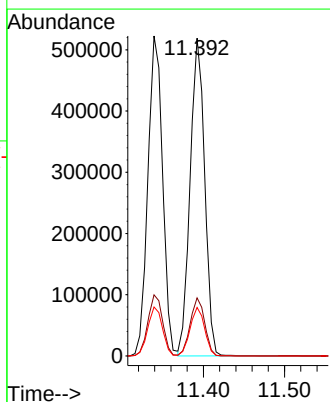
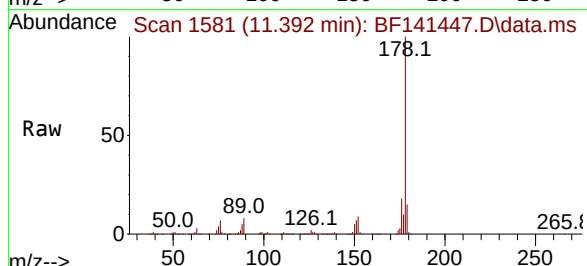
Manual Integrations
APPROVED

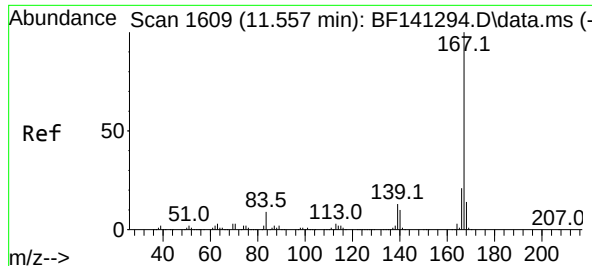
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#72
Anthracene
Concen: 41.945 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.012 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

Tgt Ion:178 Resp: 647901
Ion Ratio Lower Upper
178 100
176 18.3 15.0 22.6
179 15.3 12.3 18.5





#73

Carbazole

Concen: 43.030 ng

RT: 11.551 min Scan# 1609

Delta R.T. -0.006 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:167 Resp: 58936

Ion Ratio Lower Upper

167 100

166 21.9 17.0 25.6

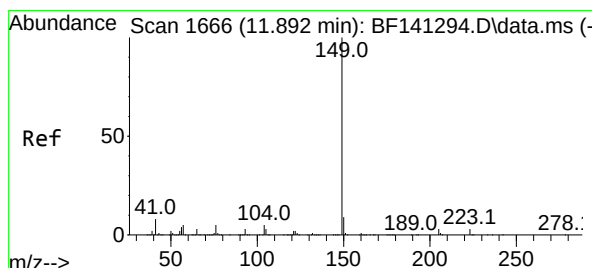
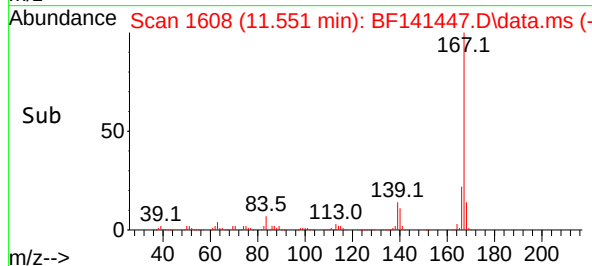
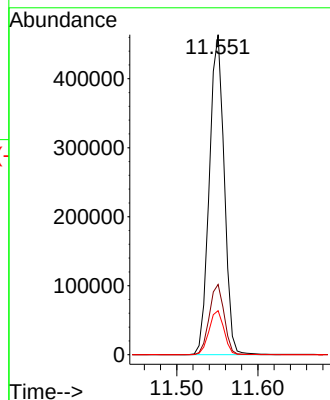
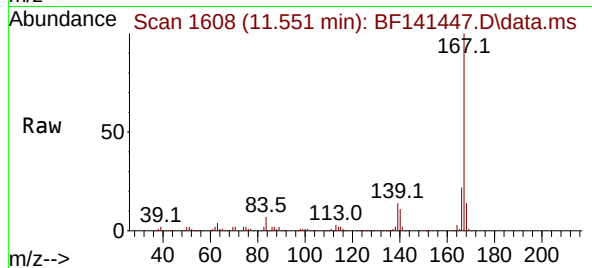
139 13.7 10.6 16.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#74

Di-n-butylphthalate

Concen: 41.523 ng

RT: 11.880 min Scan# 1664

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

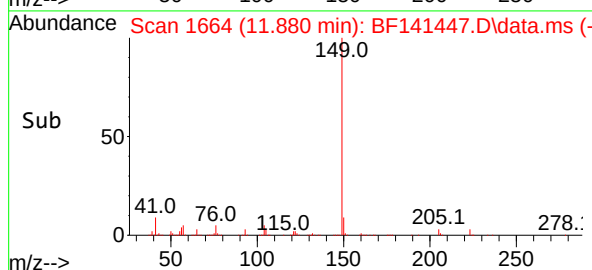
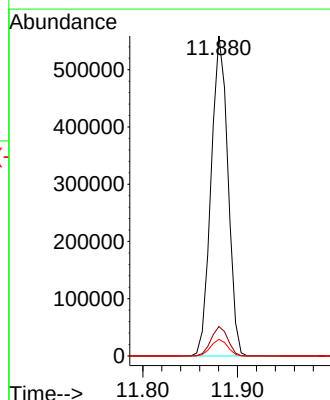
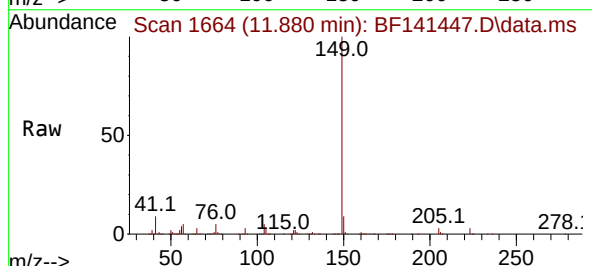
Tgt Ion:149 Resp: 689234

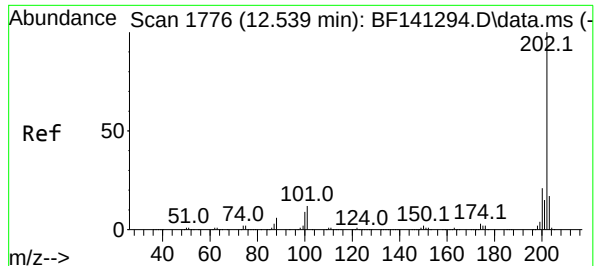
Ion Ratio Lower Upper

149 100

150 9.2 7.4 11.2

104 5.2 3.9 5.9





#75

Fluoranthene

Concen: 45.252 ng

RT: 12.527 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

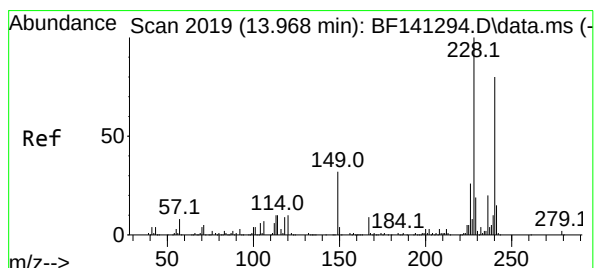
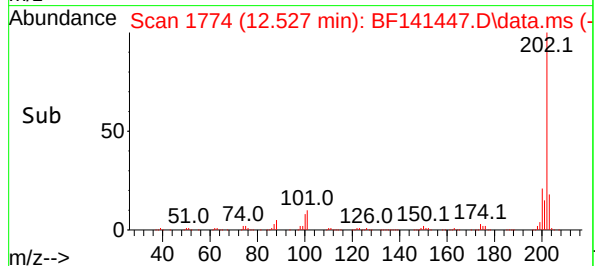
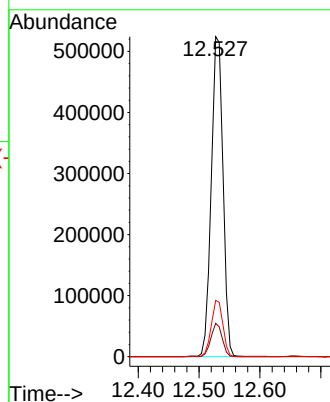
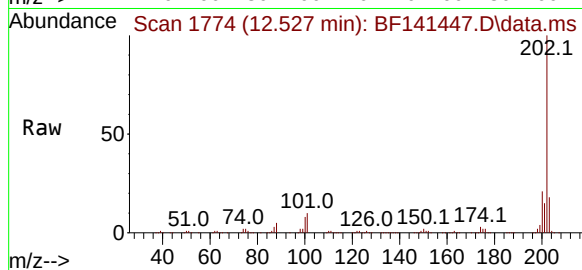
Tgt Ion:	202	Resp:	704384
Ion Ratio	Lower	Upper	
202	100		
101	10.4	0.0	31.7
203	17.6	0.0	37.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#76

Chrysene-d12

Concen: 20.000 ng

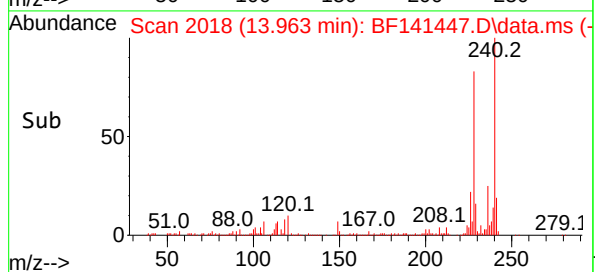
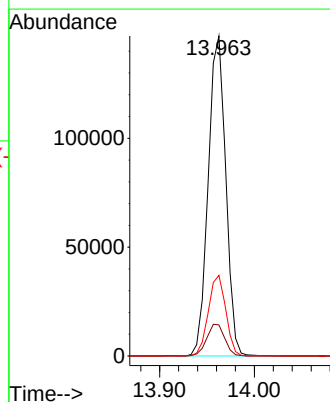
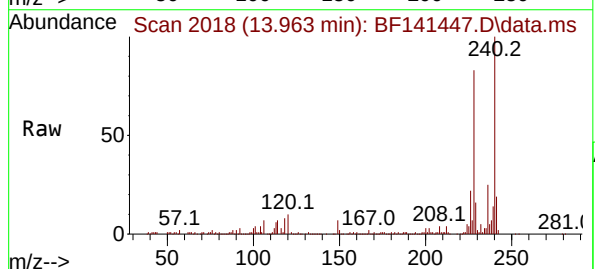
RT: 13.963 min Scan# 2018

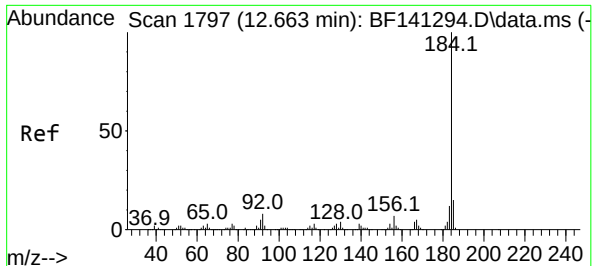
Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Tgt Ion:	240	Resp:	189132
Ion Ratio	Lower	Upper	
240	100		
120	9.7	10.0	15.0#
236	25.2	19.7	29.5





#77

Benzidine

Concen: 40.163 ng

RT: 12.657 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:184 Resp: 243520

Ion Ratio Lower Upper

184 100

185 14.2 11.9 17.9

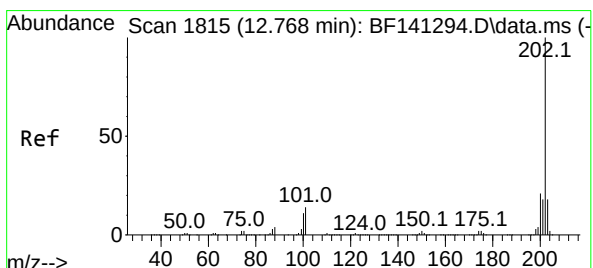
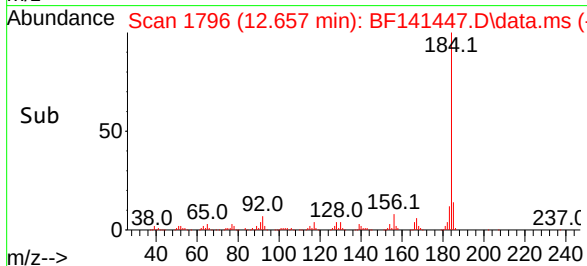
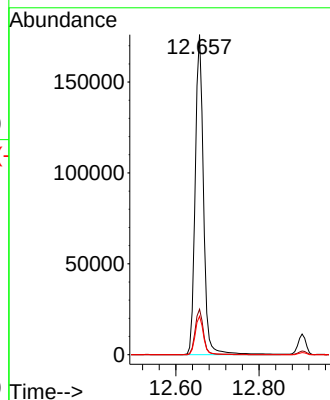
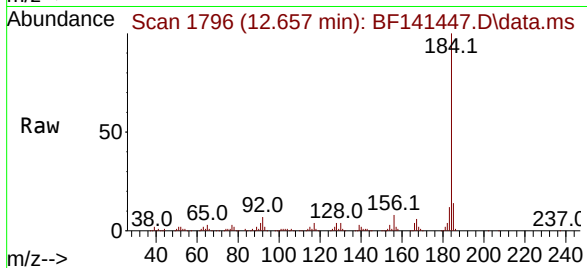
183 12.0 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#78

Pyrene

Concen: 39.495 ng

RT: 12.757 min Scan# 1813

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

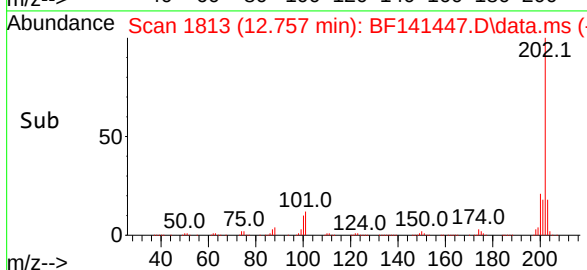
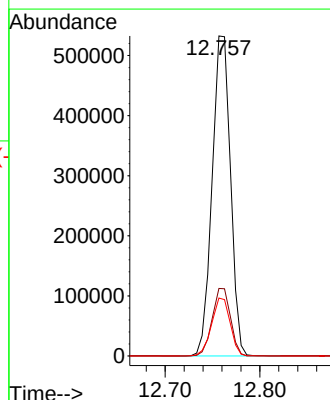
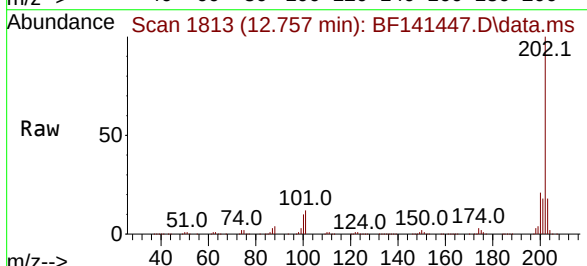
Tgt Ion:202 Resp: 717034

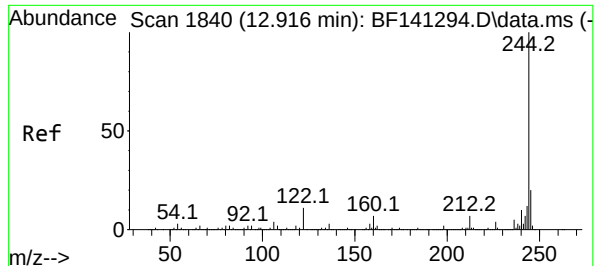
Ion Ratio Lower Upper

202 100

200 21.1 17.0 25.4

203 18.1 14.3 21.5





#79

Terphenyl-d14

Concen: 80.246 ng

RT: 12.904 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:244 Resp: 984120

Ion Ratio Lower Upper

244 100

212 7.1 5.4 8.0

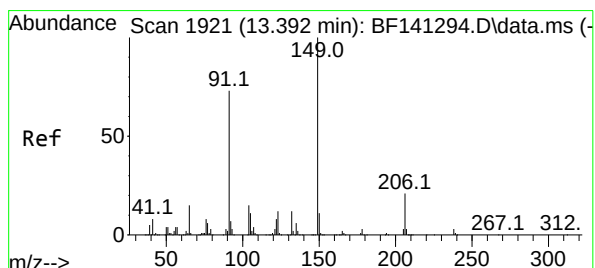
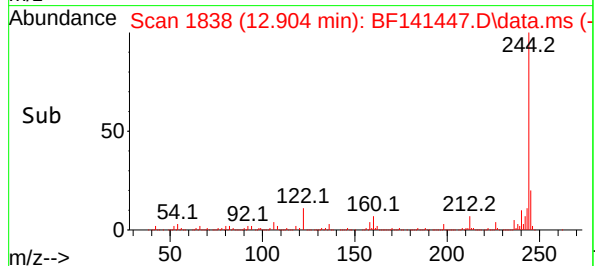
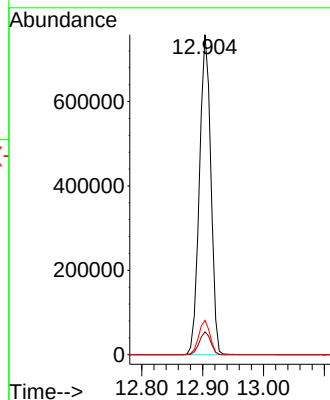
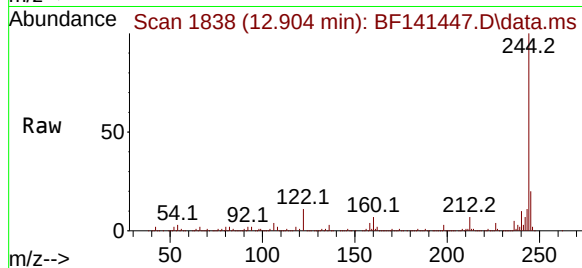
122 10.7 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#80

Butylbenzylphthalate

Concen: 40.822 ng

RT: 13.380 min Scan# 1919

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

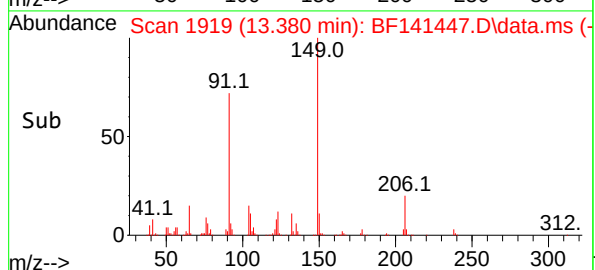
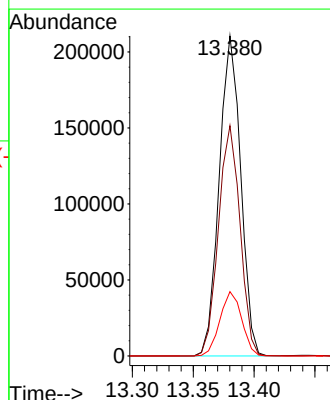
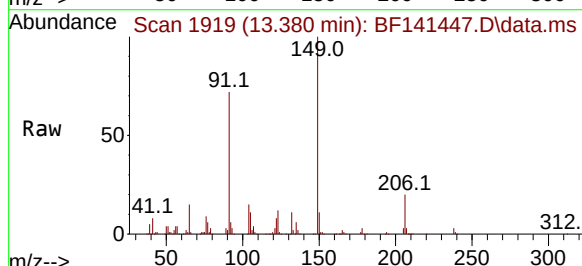
Tgt Ion:149 Resp: 258917

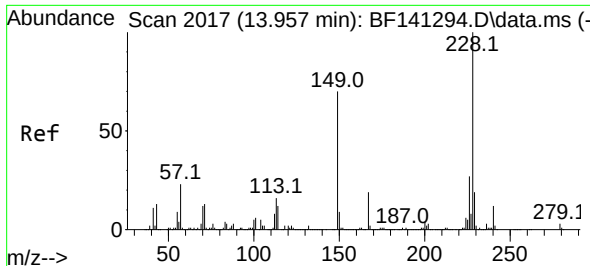
Ion Ratio Lower Upper

149 100

91 72.0 58.6 87.8

206 20.1 16.7 25.1





#81

Benzo(a)anthracene

Concen: 38.719 ng

RT: 13.951 min Scan# 2017

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:228 Resp: 505330

Ion Ratio Lower Upper

228 100

226 26.9 21.4 32.2

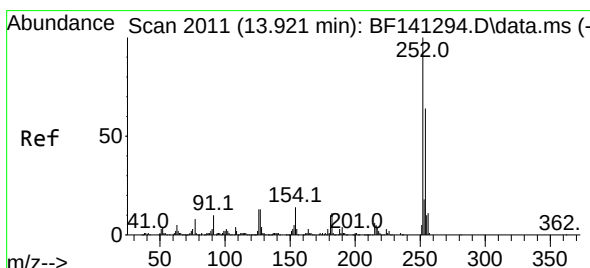
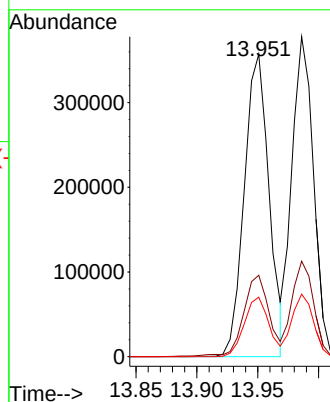
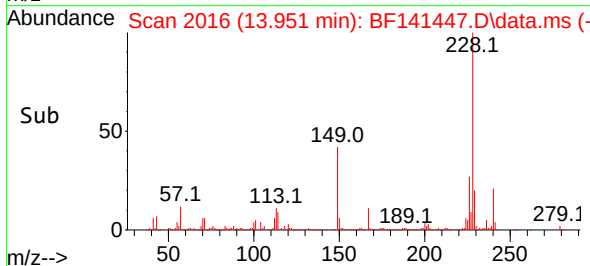
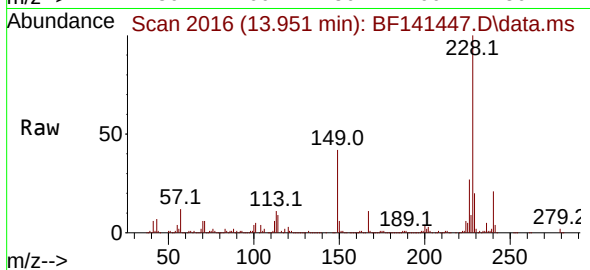
229 19.7 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#82

3,3'-Dichlorobenzidine

Concen: 37.967 ng

RT: 13.915 min Scan# 2010

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

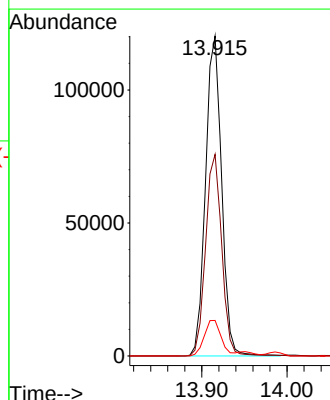
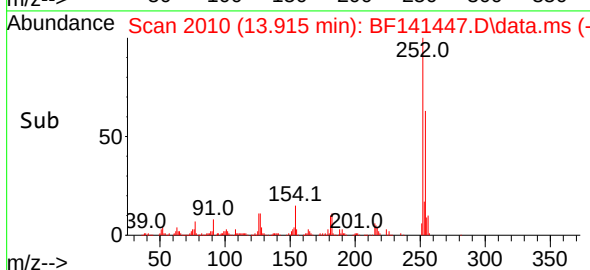
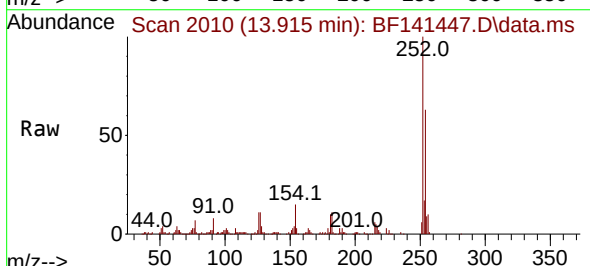
Tgt Ion:252 Resp: 157600

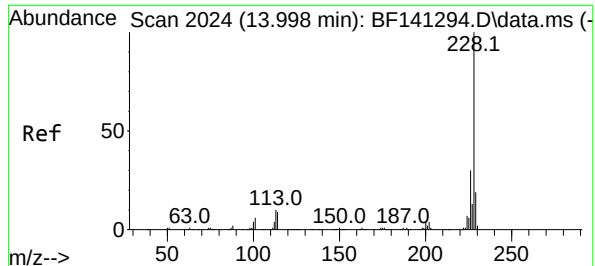
Ion Ratio Lower Upper

252 100

254 63.0 51.3 76.9

126 11.1 10.0 15.0





#83

Chrysene

Concen: 39.147 ng

RT: 13.986 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

Tgt Ion:228 Resp: 46823

Ion Ratio Lower Upper

228 100

226 29.8 24.1 36.1

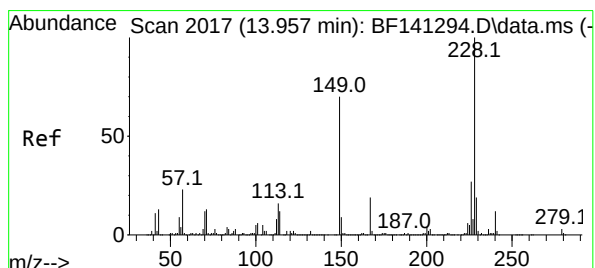
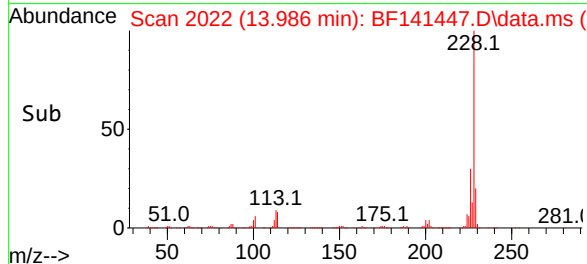
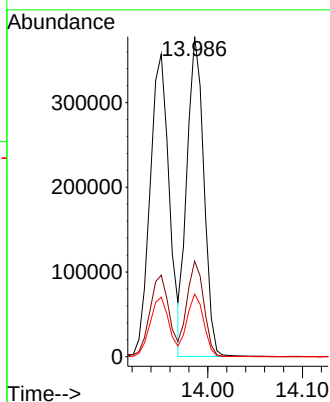
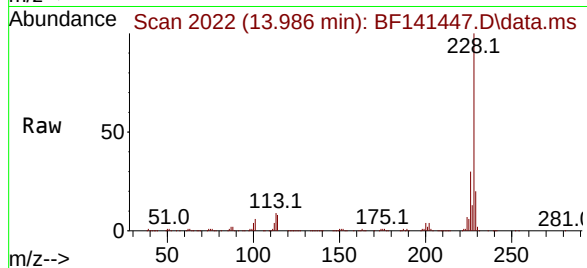
229 19.6 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 40.283 ng

RT: 13.945 min Scan# 2015

Delta R.T. -0.012 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

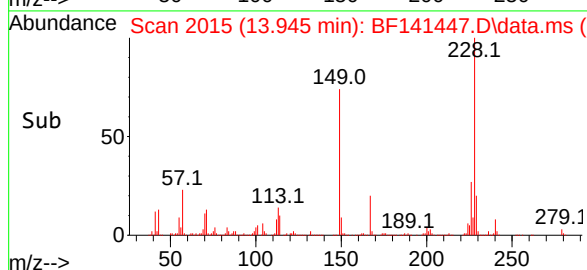
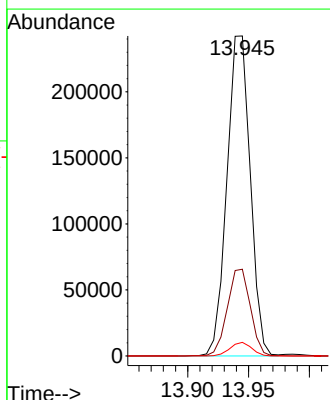
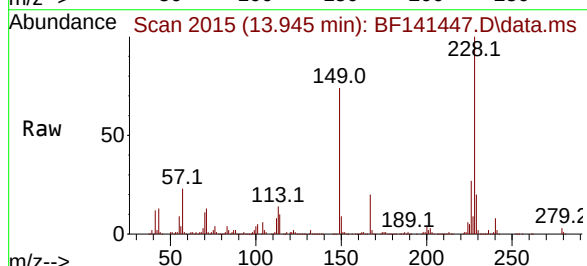
Tgt Ion:149 Resp: 324105

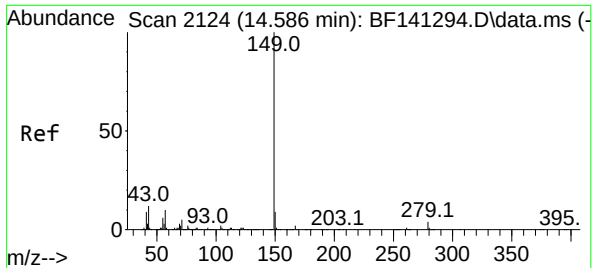
Ion Ratio Lower Upper

149 100

167 27.1 21.8 32.8

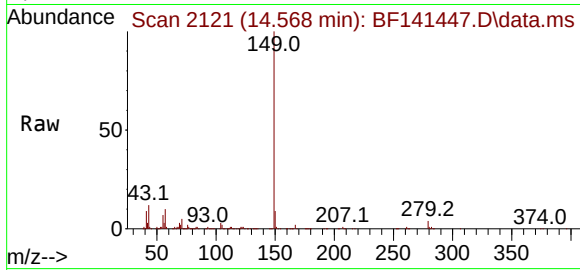
279 4.2 3.3 4.9





#85
Di-n-octyl phthalate
Concen: 37.112 ng
RT: 14.568 min Scan# 2124
Delta R.T. -0.018 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

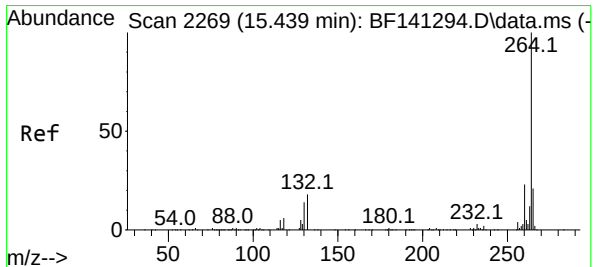
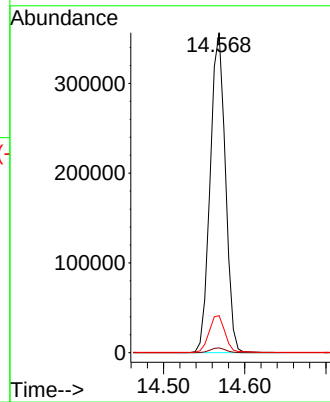
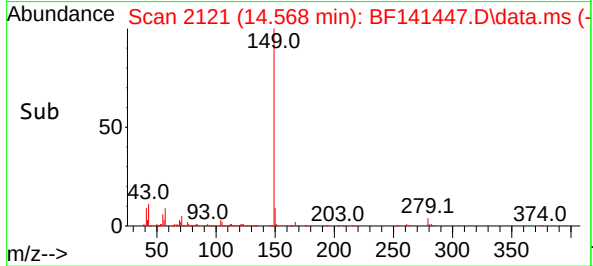
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



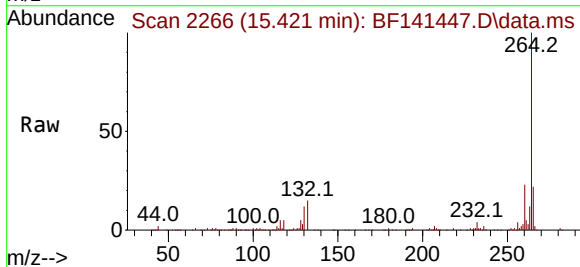
Tgt Ion:149 Resp: 463778
Ion Ratio Lower Upper
149 100
167 1.5 1.3 1.9
43 12.0 9.8 14.8

Manual Integrations
APPROVED

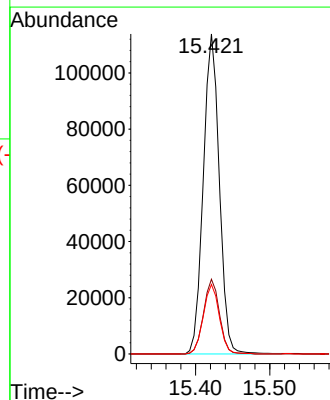
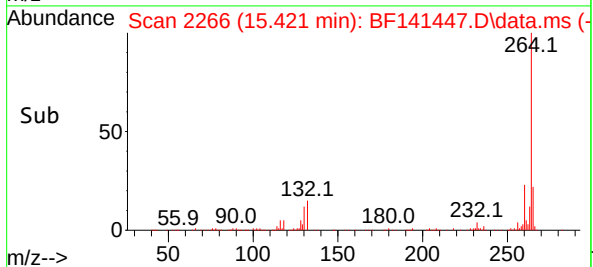
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

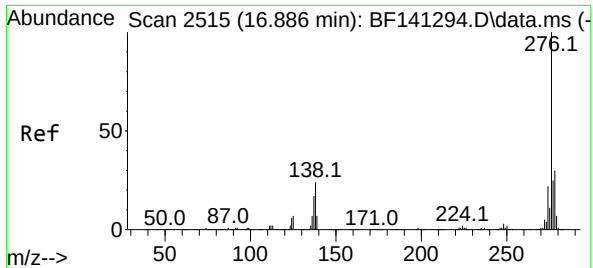


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.421 min Scan# 2266
Delta R.T. -0.018 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16



Tgt Ion:264 Resp: 170936
Ion Ratio Lower Upper
264 100
260 23.3 18.6 27.8
265 21.7 16.7 25.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 40.777 ng

RT: 16.868 min Scan# 2195

Delta R.T. -0.030 min

Lab File: BF141447.D

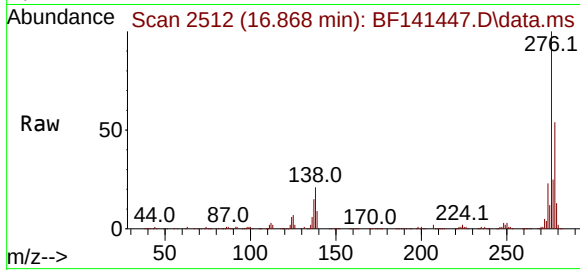
Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040



Tgt Ion:276 Resp: 449874

Ion Ratio Lower Upper

276 100

138 22.3 21.7 32.5

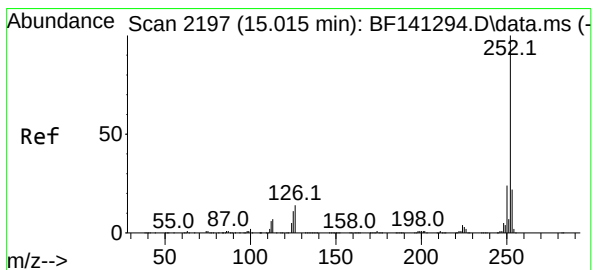
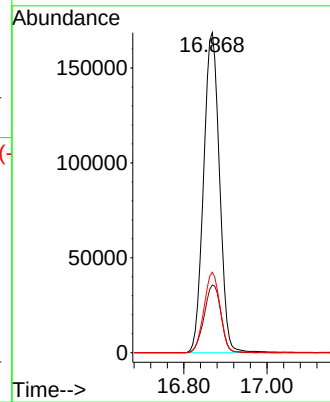
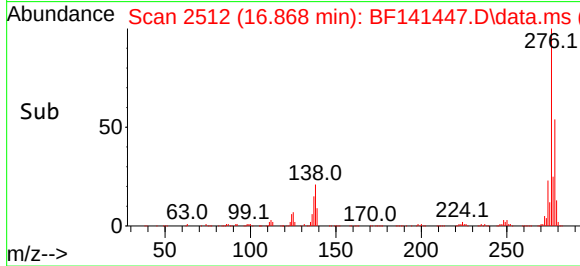
277 25.5 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#88

Benzo(b)fluoranthene

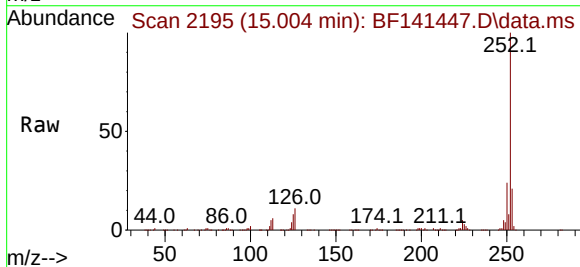
Concen: 41.674 ng m

RT: 15.004 min Scan# 2195

Delta R.T. -0.018 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16



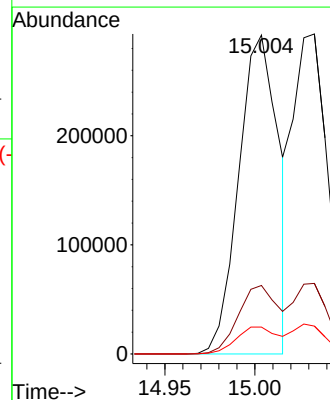
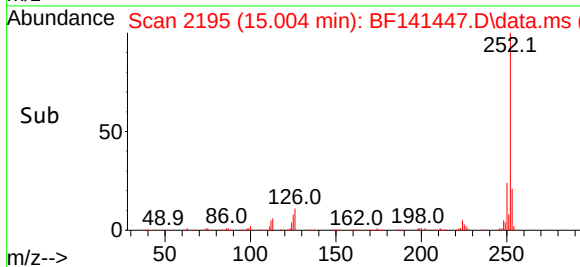
Tgt Ion:252 Resp: 448091

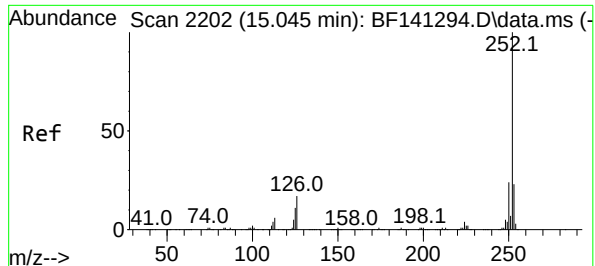
Ion Ratio Lower Upper

252 100

253 21.5 17.4 26.2

125 8.4 8.6 12.8#





#89

Benzo(k)fluoranthene

Concen: 41.460 ng

RT: 15.033 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

Instrument :

BNA_F

ClientSampleId :

SSTDCCC040

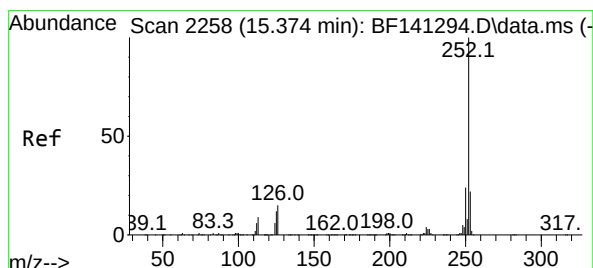
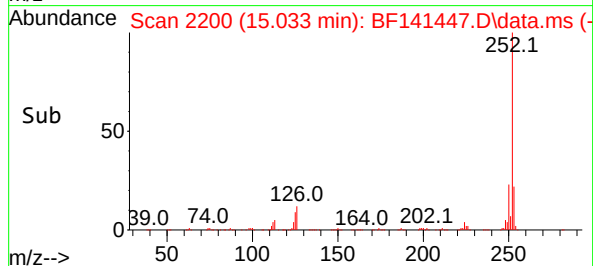
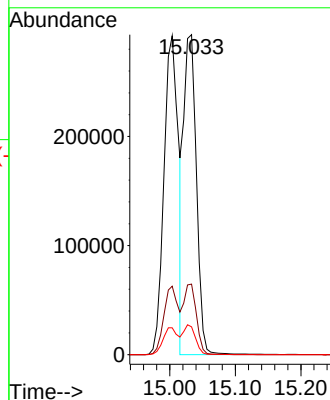
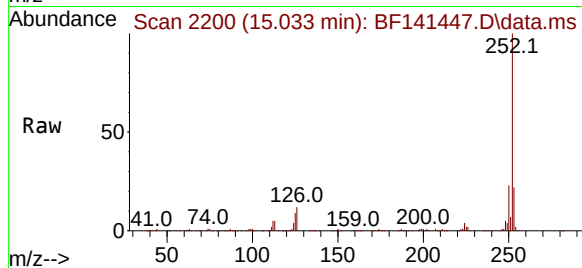
Tgt Ion:	252	Resp:	394915
Ion Ratio	Lower	Upper	
252	100		
253	22.1	17.6	26.4
125	8.7	8.4	12.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#90

Benzo(a)pyrene

Concen: 41.684 ng

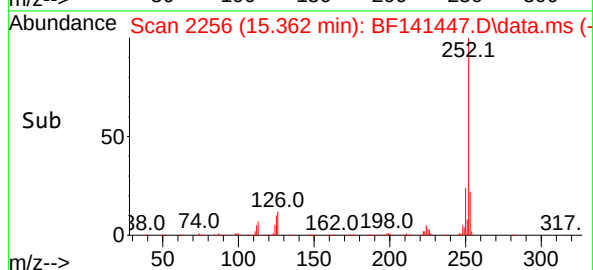
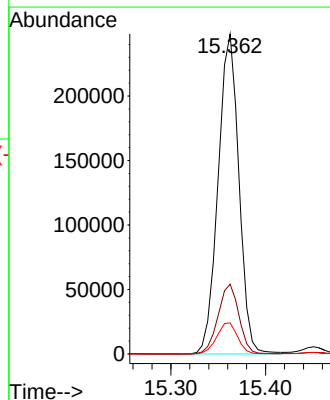
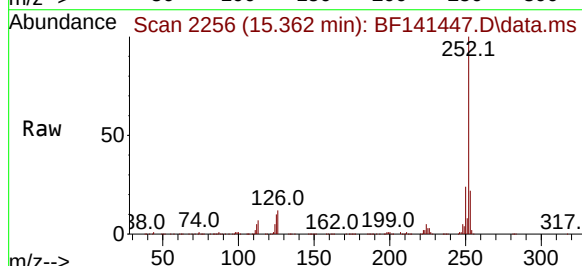
RT: 15.362 min Scan# 2256

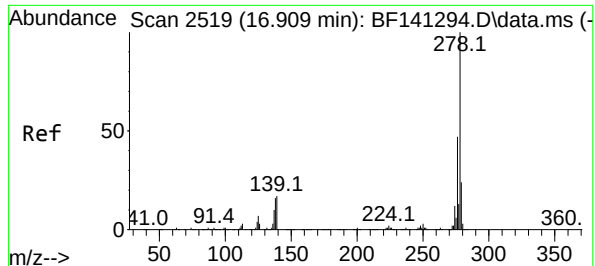
Delta R.T. -0.018 min

Lab File: BF141447.D

Acq: 05 Feb 2025 15:16

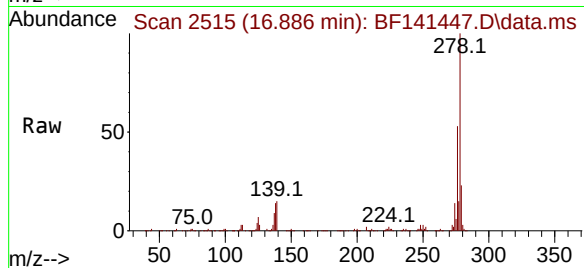
Tgt Ion:	252	Resp:	378746
Ion Ratio	Lower	Upper	
252	100		
253	21.8	17.2	25.8
125	9.7	9.4	14.2





#91
Dibenzo(a,h)anthracene
Concen: 40.350 ng
RT: 16.886 min Scan# 2515
Delta R.T. -0.035 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16

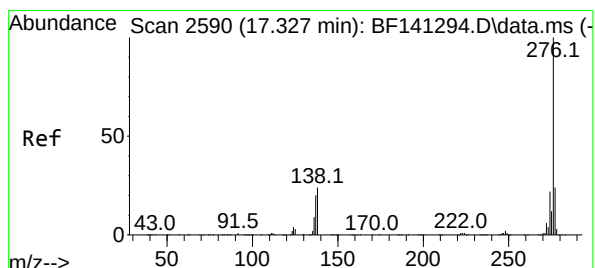
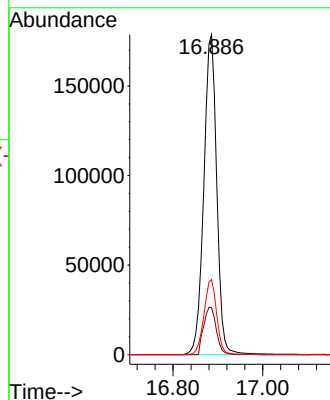
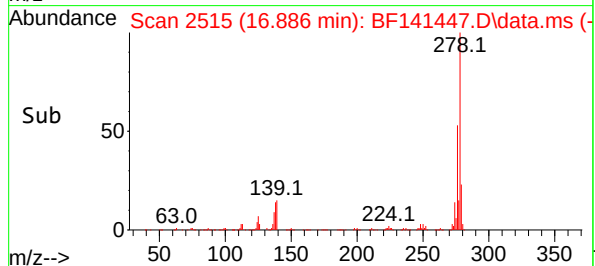
Instrument :
BNA_F
ClientSampleId :
SSTDCCC040



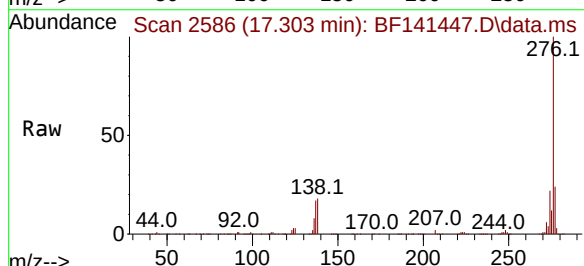
Tgt Ion: 278 Resp: 35815
Ion Ratio Lower Upper
278 100
139 14.7 13.9 20.9
279 23.4 18.8 28.2

Manual Integrations
APPROVED

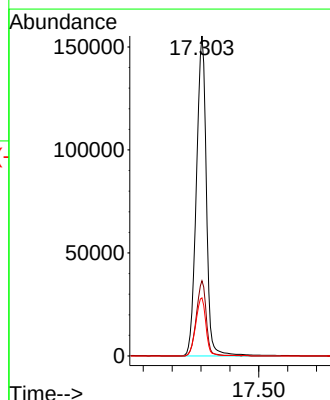
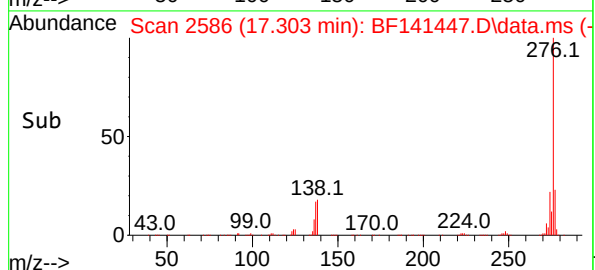
Reviewed By : Yogesh Patel 02/06/2025
Supervised By : mohammad ahmed 02/06/2025



#92
Benzo(g,h,i)perylene
Concen: 40.435 ng
RT: 17.303 min Scan# 2586
Delta R.T. -0.041 min
Lab File: BF141447.D
Acq: 05 Feb 2025 15:16



Tgt Ion: 276 Resp: 373186
Ion Ratio Lower Upper
276 100
277 23.5 19.2 28.8
138 18.1 19.0 28.4#



Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141447.D
Acq On : 05 Feb 2025 15:16
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 05 15:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	60	-0.01
2	1,4-Dioxane	0.573	0.522	8.9	59	-0.04
3	Pyridine	1.380	1.287	6.7	59	-0.05
4	n-Nitrosodimethylamine	0.789	0.863	-9.4	69	-0.06
5 S	2-Fluorophenol	1.303	1.309	-0.5	66	0.00
6	Aniline	1.403	1.296	7.6	58	-0.02
7 S	Phenol-d6	1.657	1.599	3.5	64	0.00
8	2-Chlorophenol	1.396	1.375	1.5	64	-0.01
9	Benzaldehyde	0.960	1.065	-10.9	72	-0.01
10 C	Phenol	1.757	1.692	3.7	62	0.00
11	bis(2-Chloroethyl)ether	1.347	1.250	7.2	61	-0.02
12	1,3-Dichlorobenzene	1.540	1.567	-1.8	66	-0.02
13 C	1,4-Dichlorobenzene	1.547	1.560	-0.8	66	-0.01
14	1,2-Dichlorobenzene	1.448	1.477	-2.0	67	-0.01
15	Benzyl Alcohol	1.133	1.192	-5.2	67	-0.01
16	2,2'-oxybis(1-Chloropropane	2.342	2.062	12.0	57	-0.01
17	2-Methylphenol	1.135	1.070	5.7	62	0.00
18	Hexachloroethane	0.571	0.587	-2.8	67	-0.01
19 P	n-Nitroso-di-n-propylamine	0.985	0.936	5.0	63	-0.02
20	3+4-Methylphenols	1.393	1.393	0.0	65	-0.01
21 I	Naphthalene-d8	1.000	1.000	0.0	59	-0.01
22	Acetophenone	0.475	0.495	-4.2	67	-0.01
23 S	Nitrobenzene-d5	0.379	0.401	-5.8	66	-0.01
24	Nitrobenzene	0.393	0.410	-4.3	65	-0.02
25	Isophorone	0.656	0.639	2.6	61	-0.02
26 C	2-Nitrophenol	0.185	0.192	-3.8	64	-0.01
27	2,4-Dimethylphenol	0.236	0.229	3.0	60	0.00
28	bis(2-Chloroethoxy)methane	0.418	0.394	5.7	59	-0.02
29 C	2,4-Dichlorophenol	0.289	0.299	-3.5	65	0.00
30	1,2,4-Trichlorobenzene	0.330	0.344	-4.2	66	-0.01
31	Naphthalene	1.057	1.071	-1.3	64	-0.01
32	Benzoic acid	0.217	0.229	-5.5	61	-0.03
33	4-Chloroaniline	0.358	0.310	13.4	54	-0.01
34 C	Hexachlorobutadiene	0.194	0.212	-9.3	69	-0.01
35	Caprolactam	0.094	0.093	1.1	61	-0.03
36 C	4-Chloro-3-methylphenol	0.310	0.324	-4.5	66	0.00
37	2-Methylnaphthalene	0.672	0.677	-0.7	64	-0.01
38	1-Methylnaphthalene	0.660	0.661	-0.2	64	-0.01
39 I	Acenaphthene-d10	1.000	1.000	0.0	60	-0.01
40	1,2,4,5-Tetrachlorobenzene	0.569	0.580	-1.9	65	-0.01
41 P	Hexachlorocyclopentadiene	0.168	0.169	-0.6	59	-0.01
42 S	2,4,6-Tribromophenol	0.183	0.203	-10.9	70	-0.01
43 C	2,4,6-Trichlorophenol	0.372	0.384	-3.2	63	0.00
44	2,4,5-Trichlorophenol	0.405	0.414	-2.2	66	0.00
45 S	2-Fluorobiphenyl	1.299	1.332	-2.5	67	-0.01
46	1,1'-Biphenyl	1.560	1.541	1.2	63	-0.01
47	2-Chloronaphthalene	1.216	1.206	0.8	64	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141447.D
Acq On : 05 Feb 2025 15:16
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 05 15:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	0.382	0.407	-6.5	67	0.00
49	Acenaphthylene	1.702	1.722	-1.2	65	-0.01
50	Dimethylphthalate	1.351	1.366	-1.1	66	-0.02
51	2,6-Dinitrotoluene	0.314	0.321	-2.2	65	-0.01
52 C	Acenaphthene	1.216	1.253	-3.0	66	-0.01
53	3-Nitroaniline	0.307	0.312	-1.6	62	-0.01
54 P	2,4-Dinitrophenol	0.146	0.168	-15.1	68	-0.01
55	Dibenzofuran	1.627	1.652	-1.5	65	-0.01
56 P	4-Nitrophenol	0.225	0.235	-4.4	63	0.00
57	2,4-Dinitrotoluene	0.406	0.439	-8.1	68	-0.01
58	Fluorene	1.262	1.315	-4.2	67	-0.01
59	2,3,4,6-Tetrachlorophenol	0.319	0.343	-7.5	67	0.00
60	Diethylphthalate	1.310	1.335	-1.9	65	-0.02
61	4-Chlorophenyl-phenylether	0.617	0.647	-4.9	68	-0.01
62	4-Nitroaniline	0.302	0.331	-9.6	68	-0.02
63	Azobenzene	1.311	1.306	0.4	64	-0.01
64 I	Phenanthrene-d10	1.000	1.000	0.0	64	-0.01
65	4,6-Dinitro-2-methylphenol	0.118	0.139	-17.8	71	-0.01
66 c	n-Nitrosodiphenylamine	0.647	0.640	1.1	65	-0.01
67	4-Bromophenyl-phenylether	0.224	0.230	-2.7	68	-0.01
68	Hexachlorobenzene	0.238	0.245	-2.9	69	-0.01
69	Atrazine	0.216	0.205	5.1	62	-0.02
70 C	Pentachlorophenol	0.139	0.152	-9.4	68	-0.01
71	Phenanthrene	1.075	1.125	-4.7	70	-0.01
72	Anthracene	1.053	1.105	-4.9	70	-0.01
73	Carbazole	0.934	1.005	-7.6	72	0.00
74	Di-n-butylphthalate	1.132	1.175	-3.8	69	-0.01
75 C	Fluoranthene	1.062	1.201	-13.1	76	-0.01
76 I	Chrysene-d12	1.000	1.000	0.0	73	-0.01
77	Benzidine	0.641	0.644	-0.5	64	0.00
78	Pyrene	1.920	1.896	1.3	78	-0.01
79 S	Terphenyl-d14	1.297	1.301	-0.3	80	-0.01
80	Butylbenzylphthalate	0.671	0.684	-1.9	79	-0.01
81	Benzo(a)anthracene	1.380	1.336	3.2	76	-0.01
82	3,3'-Dichlorobenzidine	0.439	0.417	5.0	72	-0.01
83	Chrysene	1.265	1.238	2.1	79	-0.01
84	Bis(2-ethylhexyl)phthalate	0.851	0.857	-0.7	79	-0.01
85 c	Di-n-octyl phthalate	1.321	1.226	7.2	72	-0.02
86 I	Perylene-d12	1.000	1.000	0.0	61	-0.02
87	Indeno(1,2,3-cd)pyrene	1.291	1.316	-1.9	64	-0.03
88	Benzo(b)fluoranthene	1.258	1.311	-4.2	72	-0.02
89	Benzo(k)fluoranthene	1.114	1.155	-3.7	65	-0.02
90 C	Benzo(a)pyrene	1.063	1.108	-4.2	67	-0.02
91	Dibenzo(a,h)anthracene	1.039	1.048	-0.9	63	-0.04
92	Benzo(g,h,i)perylene	1.080	1.092	-1.1	64	-0.04

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141447.D
Acq On : 05 Feb 2025 15:16
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 05 15:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141447.D
Acq On : 05 Feb 2025 15:16
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 05 15:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	60	-0.01
2	1,4-Dioxane	40.000	36.458	8.9	59	-0.04
3	Pyridine	40.000	37.303	6.7	59	-0.05
4	n-Nitrosodimethylamine	40.000	43.755	-9.4	69	-0.06
5 S	2-Fluorophenol	80.000	80.382	-0.5	66	0.00
6	Aniline	40.000	36.942	7.6	58	-0.02
7 S	Phenol-d6	80.000	77.175	3.5	64	0.00
8	2-Chlorophenol	40.000	39.384	1.5	64	-0.01
9	Benzaldehyde	40.000	44.359	-10.9	72	-0.01
10 C	Phenol	40.000	38.522	3.7	62	0.00
11	bis(2-Chloroethyl)ether	40.000	37.123	7.2	61	-0.02
12	1,3-Dichlorobenzene	40.000	40.714	-1.8	66	-0.02
13 C	1,4-Dichlorobenzene	40.000	40.346	-0.9	66	-0.01
14	1,2-Dichlorobenzene	40.000	40.781	-2.0	67	-0.01
15	Benzyl Alcohol	40.000	42.111	-5.3	67	-0.01
16	2,2'-oxybis(1-Chloropropane	40.000	35.215	12.0	57	-0.01
17	2-Methylphenol	40.000	37.700	5.7	62	0.00
18	Hexachloroethane	40.000	41.142	-2.9	67	-0.01
19 P	n-Nitroso-di-n-propylamine	40.000	38.029	4.9	63	-0.02
20	3+4-Methylphenols	40.000	39.993	0.0	65	-0.01
21 I	Naphthalene-d8	20.000	20.000	0.0	59	-0.01
22	Acetophenone	40.000	41.690	-4.2	67	-0.01
23 S	Nitrobenzene-d5	80.000	84.661	-5.8	66	-0.01
24	Nitrobenzene	40.000	41.742	-4.4	65	-0.02
25	Isophorone	40.000	38.977	2.6	61	-0.02
26 C	2-Nitrophenol	40.000	41.507	-3.8	64	-0.01
27	2,4-Dimethylphenol	40.000	38.815	3.0	60	0.00
28	bis(2-Chloroethoxy)methane	40.000	37.637	5.9	59	-0.02
29 C	2,4-Dichlorophenol	40.000	41.356	-3.4	65	0.00
30	1,2,4-Trichlorobenzene	40.000	41.662	-4.2	66	-0.01
31	Naphthalene	40.000	40.542	-1.4	64	-0.01
32	Benzoic acid	40.000	42.178	-5.4	61	-0.03
33	4-Chloroaniline	40.000	34.556	13.6	54	-0.01
34 C	Hexachlorobutadiene	40.000	43.752	-9.4	69	-0.01
35	Caprolactam	40.000	39.508	1.2	61	-0.03
36 C	4-Chloro-3-methylphenol	40.000	41.835	-4.6	66	0.00
37	2-Methylnaphthalene	40.000	40.313	-0.8	64	-0.01
38	1-Methylnaphthalene	40.000	40.101	-0.3	64	-0.01
39 I	Acenaphthene-d10	20.000	20.000	0.0	60	-0.01
40	1,2,4,5-Tetrachlorobenzene	40.000	40.790	-2.0	65	-0.01
41 P	Hexachlorocyclopentadiene	40.000	40.311	-0.8	59	-0.01
42 S	2,4,6-Tribromophenol	80.000	88.675	-10.8	70	-0.01
43 C	2,4,6-Trichlorophenol	40.000	41.280	-3.2	63	0.00
44	2,4,5-Trichlorophenol	40.000	40.864	-2.2	66	0.00
45 S	2-Fluorobiphenyl	80.000	82.031	-2.5	67	-0.01
46	1,1'-Biphenyl	40.000	39.526	1.2	63	-0.01
47	2-Chloronaphthalene	40.000	39.690	0.8	64	-0.01

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141447.D
Acq On : 05 Feb 2025 15:16
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 05 15:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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	42.611	-6.5	67	0.00
49	Acenaphthylene	40.000	40.477	-1.2	65	-0.01
50	Dimethylphthalate	40.000	40.461	-1.2	66	-0.02
51	2,6-Dinitrotoluene	40.000	40.902	-2.3	65	-0.01
52 C	Acenaphthene	40.000	41.234	-3.1	66	-0.01
53	3-Nitroaniline	40.000	40.648	-1.6	62	-0.01
54 P	2,4-Dinitrophenol	40.000	46.121	-15.3	68	-0.01
55	Dibenzofuran	40.000	40.604	-1.5	65	-0.01
56 P	4-Nitrophenol	40.000	41.757	-4.4	63	0.00
57	2,4-Dinitrotoluene	40.000	43.255	-8.1	68	-0.01
58	Fluorene	40.000	41.681	-4.2	67	-0.01
59	2,3,4,6-Tetrachlorophenol	40.000	43.009	-7.5	67	0.00
60	Diethylphthalate	40.000	40.767	-1.9	65	-0.02
61	4-Chlorophenyl-phenylether	40.000	41.942	-4.9	68	-0.01
62	4-Nitroaniline	40.000	43.805	-9.5	68	-0.02
63	Azobenzene	40.000	39.861	0.3	64	-0.01
64 I	Phenanthrene-d10	20.000	20.000	0.0	64	-0.01
65	4,6-Dinitro-2-methylphenol	40.000	47.093	-17.7	71	-0.01
66 c	n-Nitrosodiphenylamine	40.000	39.596	1.0	65	-0.01
67	4-Bromophenyl-phenylether	40.000	41.034	-2.6	68	-0.01
68	Hexachlorobenzene	40.000	41.264	-3.2	69	-0.01
69	Atrazine	40.000	37.984	5.0	62	-0.02
70 C	Pentachlorophenol	40.000	43.736	-9.3	68	-0.01
71	Phenanthrene	40.000	41.848	-4.6	70	-0.01
72	Anthracene	40.000	41.945	-4.9	70	-0.01
73	Carbazole	40.000	43.030	-7.6	72	0.00
74	Di-n-butylphthalate	40.000	41.523	-3.8	69	-0.01
75 C	Fluoranthene	40.000	45.252	-13.1	76	-0.01
76 I	Chrysene-d12	20.000	20.000	0.0	73	-0.01
77	Benzydine	40.000	40.163	-0.4	64	0.00
78	Pyrene	40.000	39.495	1.3	78	-0.01
79 S	Terphenyl-d14	80.000	80.246	-0.3	80	-0.01
80	Butylbenzylphthalate	40.000	40.822	-2.1	79	-0.01
81	Benzo(a)anthracene	40.000	38.719	3.2	76	-0.01
82	3,3'-Dichlorobenzidine	40.000	37.967	5.1	72	-0.01
83	Chrysene	40.000	39.147	2.1	79	-0.01
84	Bis(2-ethylhexyl)phthalate	40.000	40.283	-0.7	79	-0.01
85 c	Di-n-octyl phthalate	40.000	37.112	7.2	72	-0.02
86 I	Perylene-d12	20.000	20.000	0.0	61	-0.02
87	Indeno(1,2,3-cd)pyrene	40.000	40.777	-1.9	64	-0.03
88	Benzo(b)fluoranthene	40.000	41.674	-4.2	72	-0.02
89	Benzo(k)fluoranthene	40.000	41.460	-3.7	65	-0.02
90 C	Benzo(a)pyrene	40.000	41.684	-4.2	67	-0.02
91	Dibenzo(a,h)anthracene	40.000	40.350	-0.9	63	-0.04
92	Benzo(g,h,i)perylene	40.000	40.435	-1.1	64	-0.04

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141447.D
Acq On : 05 Feb 2025 15:16
Operator : RC/JU
Sample : SSTDCCC040
Misc :
ALS Vial : 2 Sample Multiplier: 1

Instrument :
BNA_F
LabSampleId :
SSTDCCC040

Quant Time: Feb 05 15:51:32 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 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

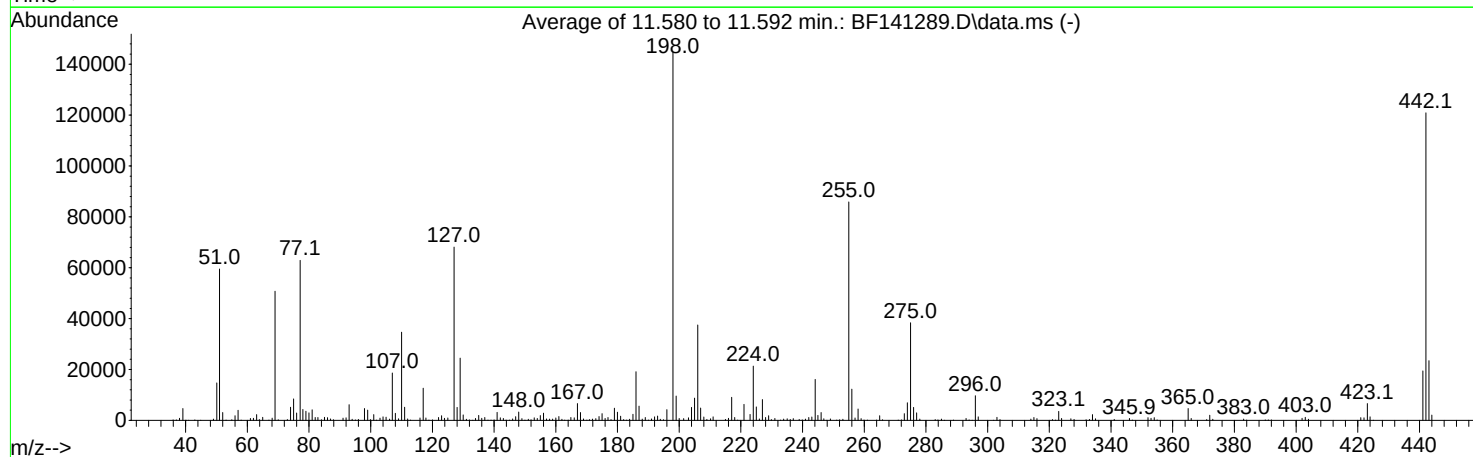
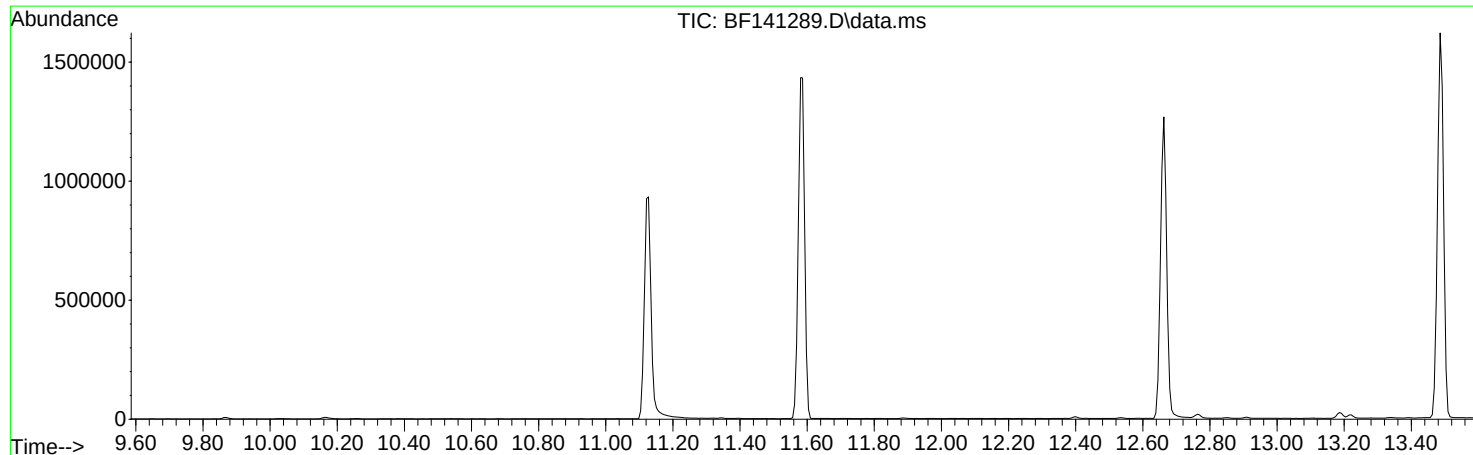
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141289.D
Acq On : 29 Jan 2025 10:03
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-BF012925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 29 17:41:25 2025



AutoFind: Scans 1613, 1614, 1615; Background Corrected with Scan 1606

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	41.1	59504	PASS
68	69	0.00	2	1.7	874	PASS
69	198	0.00	100	35.1	50789	PASS
70	69	0.00	2	0.6	281	PASS
127	198	10	80	47.1	68133	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	144613	PASS
199	198	5	9	6.6	9584	PASS
275	198	10	60	26.5	38371	PASS
365	198	1	100	3.2	4642	PASS
441	198	0.01	100	13.5	19467	PASS
442	442	50	100	100.0	120923	PASS
443	442	15	24	19.4	23456	PASS

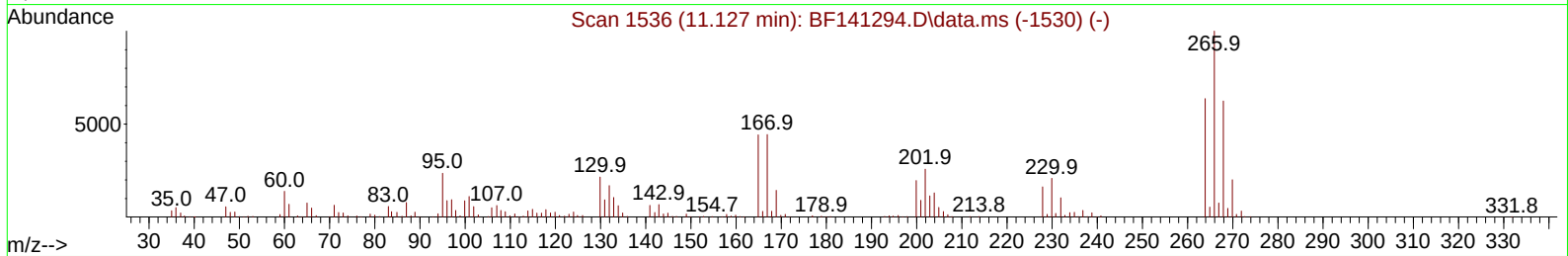
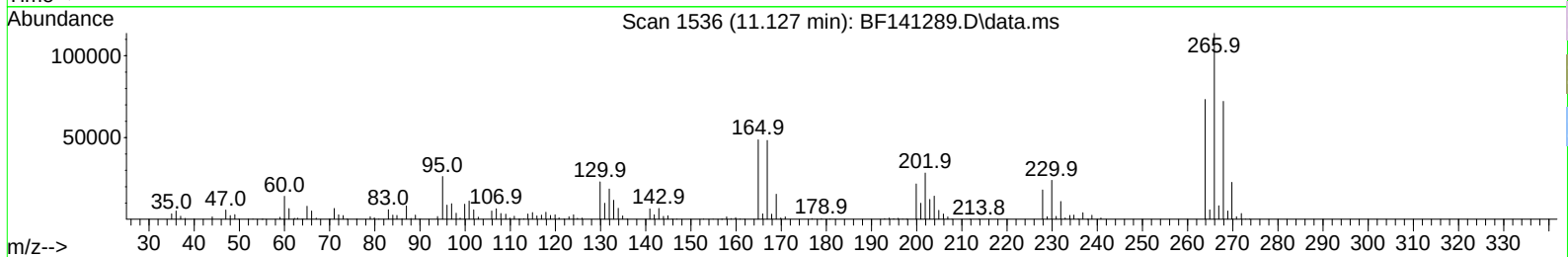
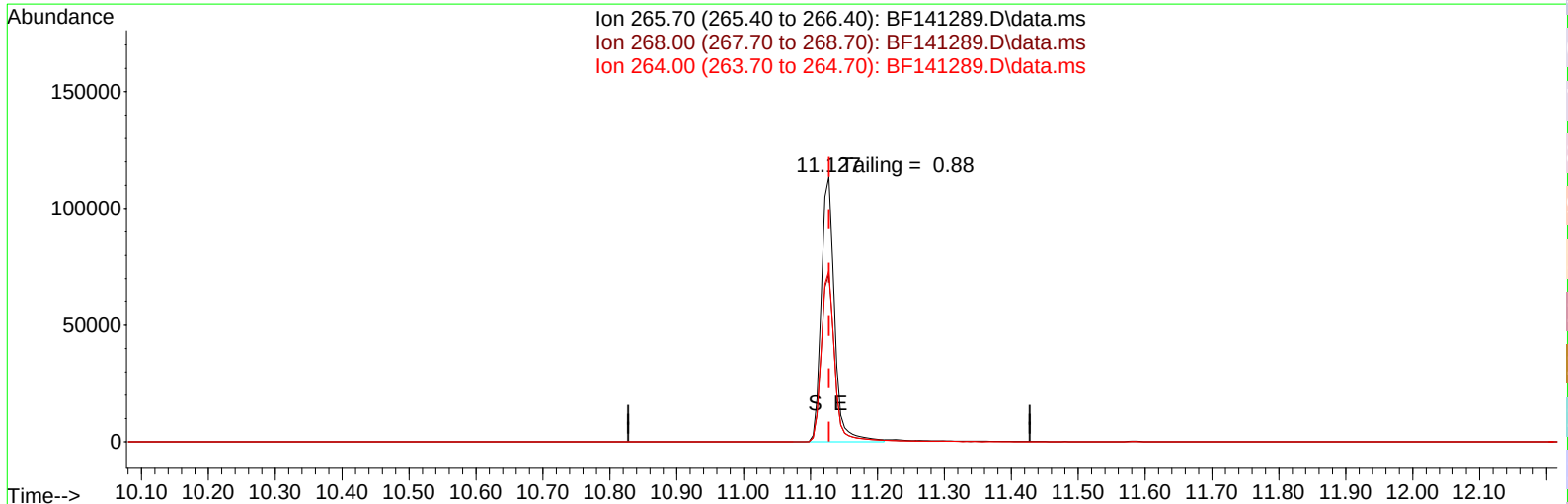
DDT Breakdown

Date	Instrument Name	DFTPP Data File
1/29/2025	BNA_F	<u>BF141289.D</u>
Compound Name	Response	Retention Time
DDT	407437	13.486
DDD	11239	13.186
DDE	931	12.851
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
12170	419607	2.90

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141289.D
Acq On : 29 Jan 2025 10:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 29 13:18:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 13:12:40 2025
Response via : Initial Calibration



TIC: BF141289.D\data.ms

(70) Pentachlorophenol (C)

11.127min (-0.000) 18353.04 ng

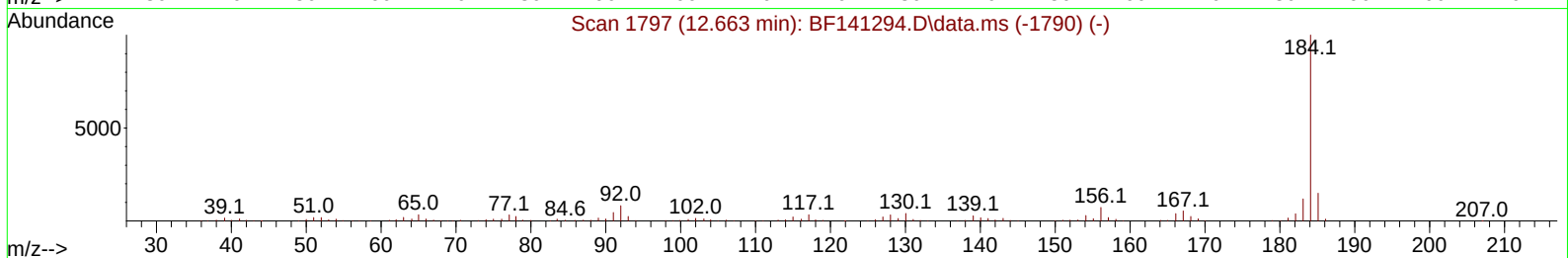
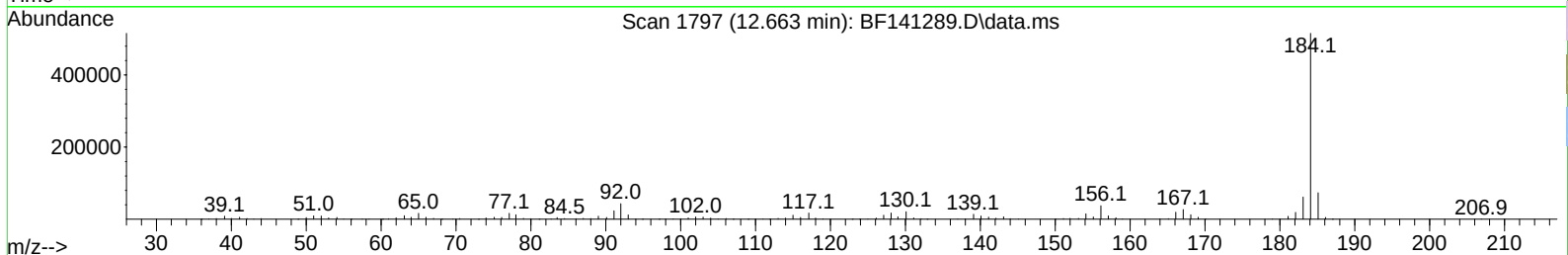
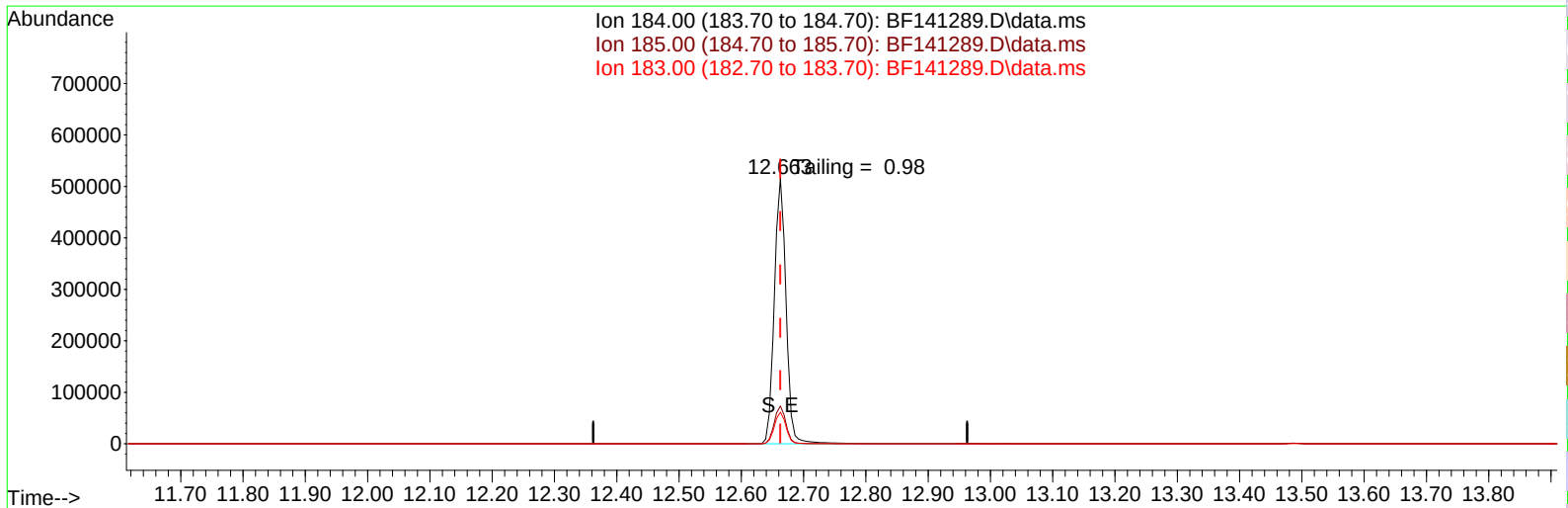
response 157302

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	68.00	63.47
264.00	63.20	64.50
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF012925\
Data File : BF141289.D
Acq On : 29 Jan 2025 10:03
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 29 13:18:12 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 13:12:40 2025
Response via : Initial Calibration



TIC: BF141289.D\data.ms

(77) Benzidine

12.663min (-0.000) 86413.53 ng

response 677498

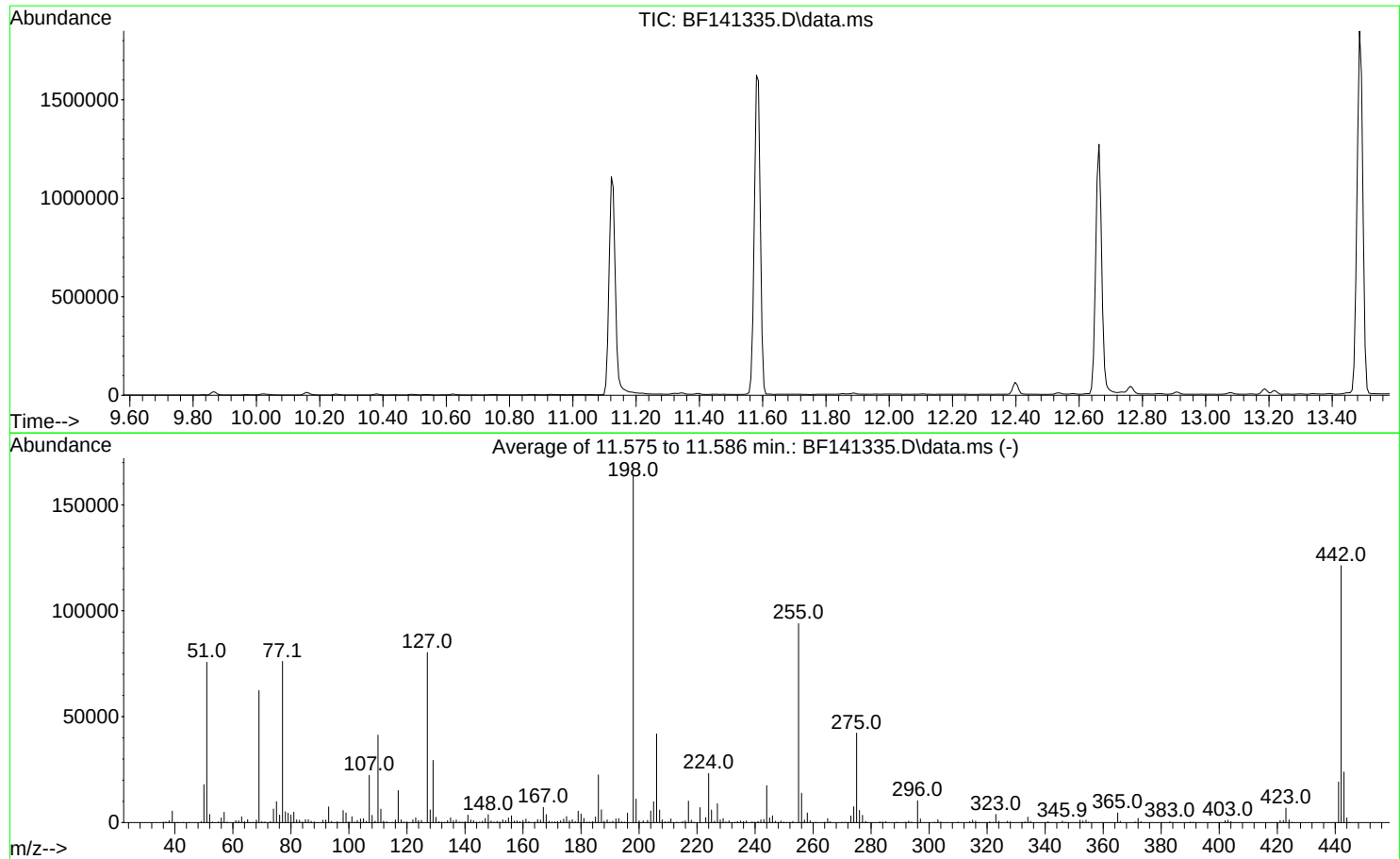
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.10	14.27
183.00	11.70	11.93
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141335.D
Acq On : 31 Jan 2025 16:53
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-BF012925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 29 17:41:25 2025



AutoFind: Scans 1612, 1613, 1614; Background Corrected with Scan 1606

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	46.2	75704	PASS
68	69	0.00	2	1.9	1195	PASS
69	198	0.00	100	38.1	62342	PASS
70	69	0.00	2	0.7	436	PASS
127	198	10	80	49.0	80267	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	163789	PASS
199	198	5	9	6.8	11100	PASS
275	198	10	60	25.8	42219	PASS
365	198	1	100	2.8	4575	PASS
441	198	0.01	100	11.7	19173	PASS
442	442	50	100	100.0	121349	PASS
443	442	15	24	19.7	23847	PASS

Instrument :
BNA_F
ClientSampleId :
DFTPP

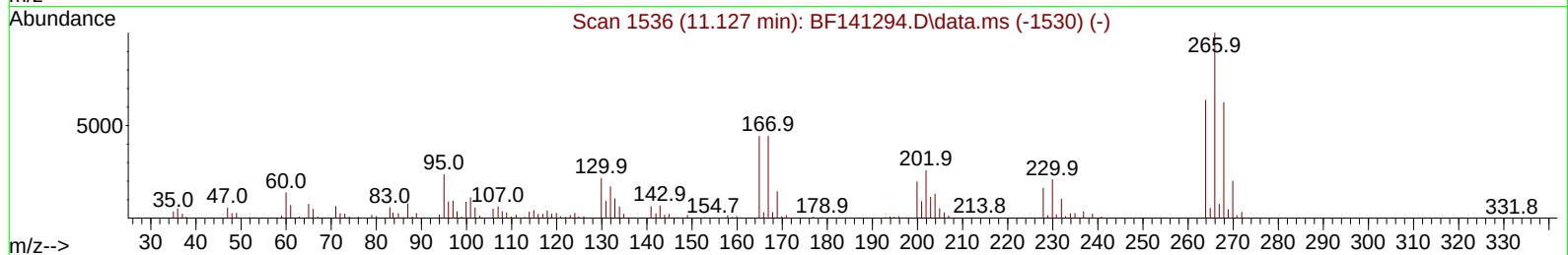
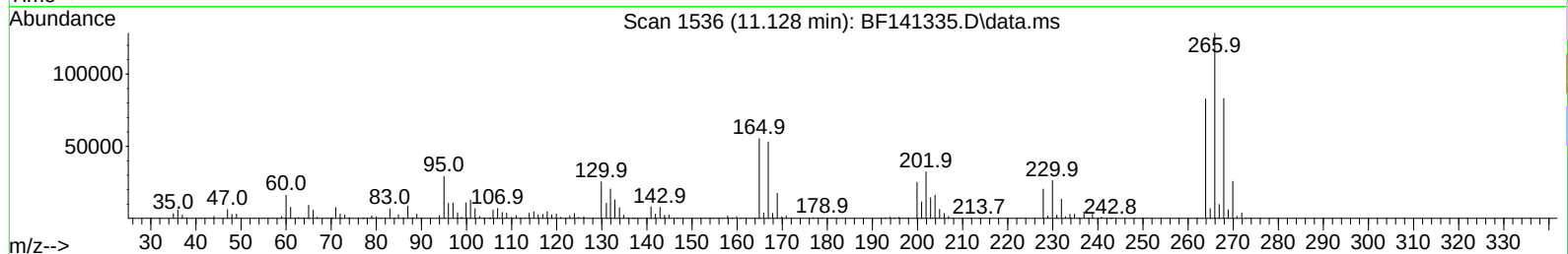
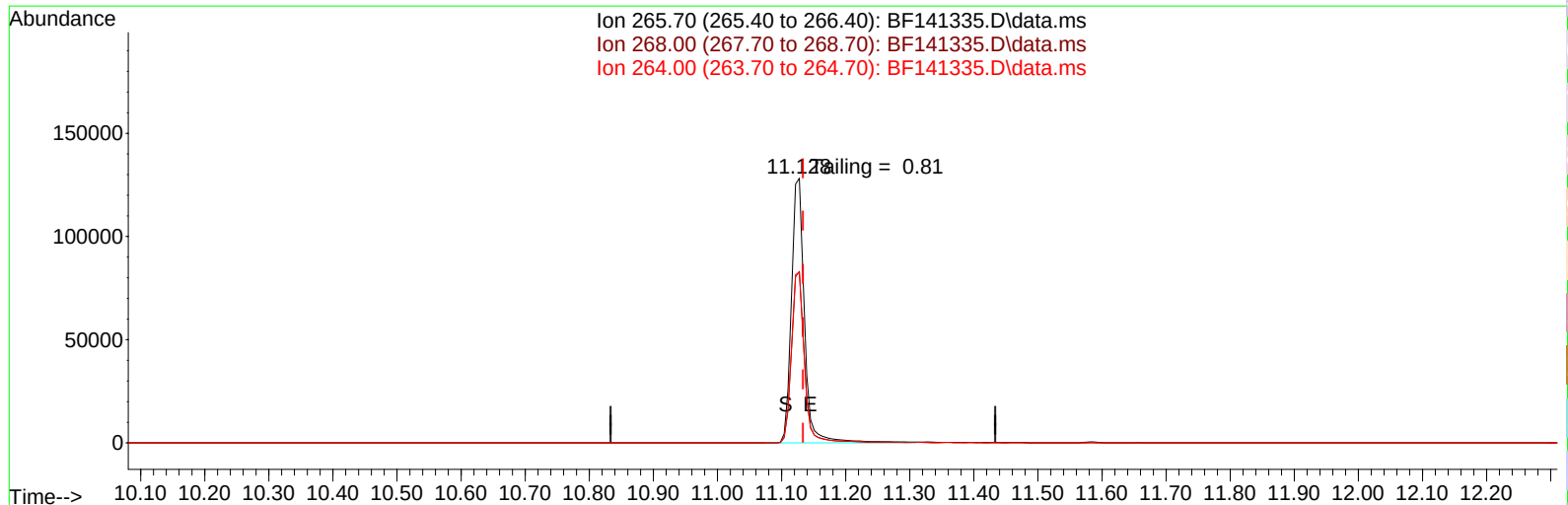
DDT Breakdown

Date	Instrument Name	DFTPP Data File
1/31/2025	BNA_F	<u>BF141335.D</u>
Compound Name	Response	Retention Time
DDT	464959	13.486
DDD	12206	13.186
DDE	750	12.851
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
12956	477915	2.71

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141335.D
Acq On : 31 Jan 2025 16:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 31 17:41:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration



TIC: BF141335.D\data.ms

(70) Pentachlorophenol (C)

11.128min (-0.006) 9273.56 ng

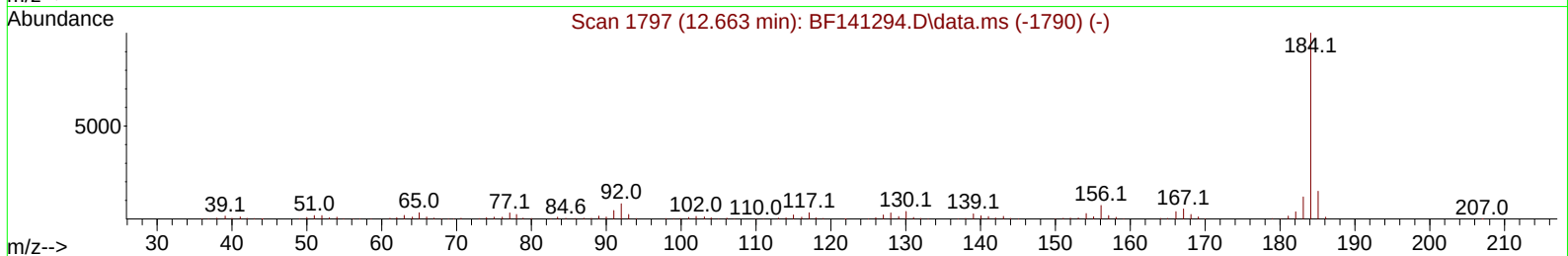
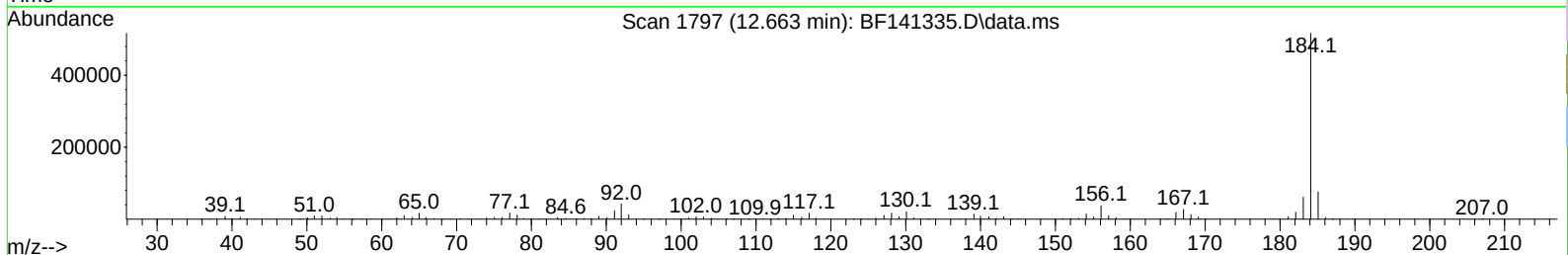
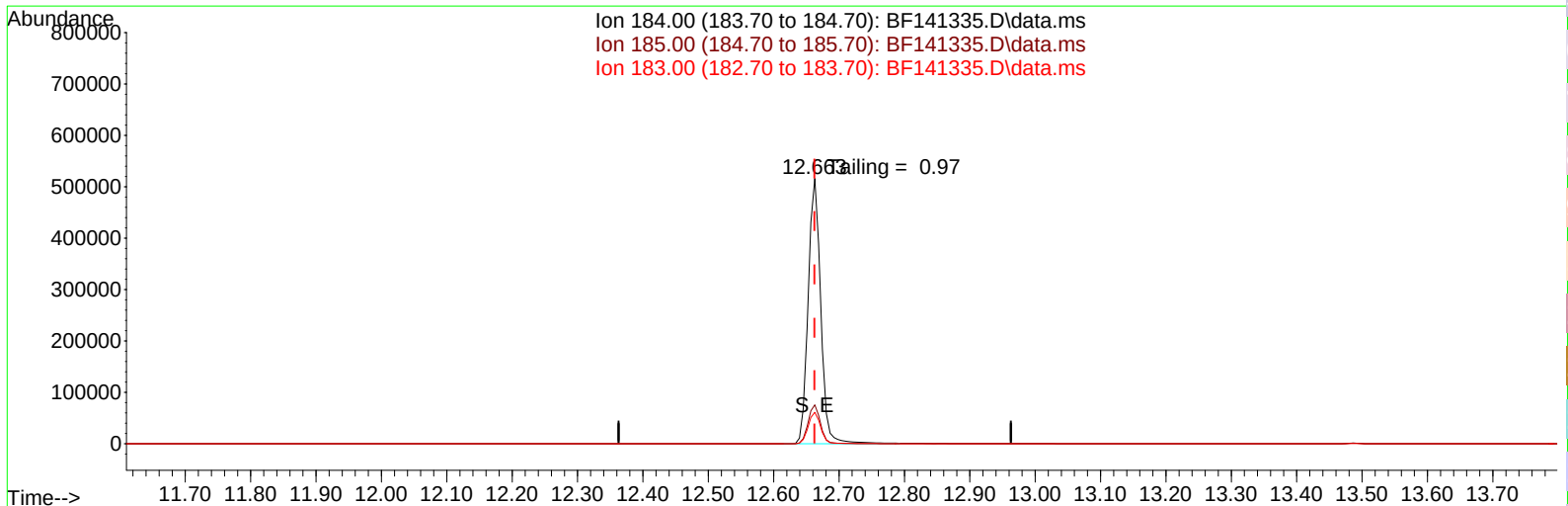
response 183922

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.40	64.82
264.00	63.70	64.49
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141335.D
Acq On : 31 Jan 2025 16:53
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Jan 31 17:41:44 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration



TIC: BF141335.D\data.ms

(77) Benzidine

12.663min (-0.000) 12340.55 ng

response 693915

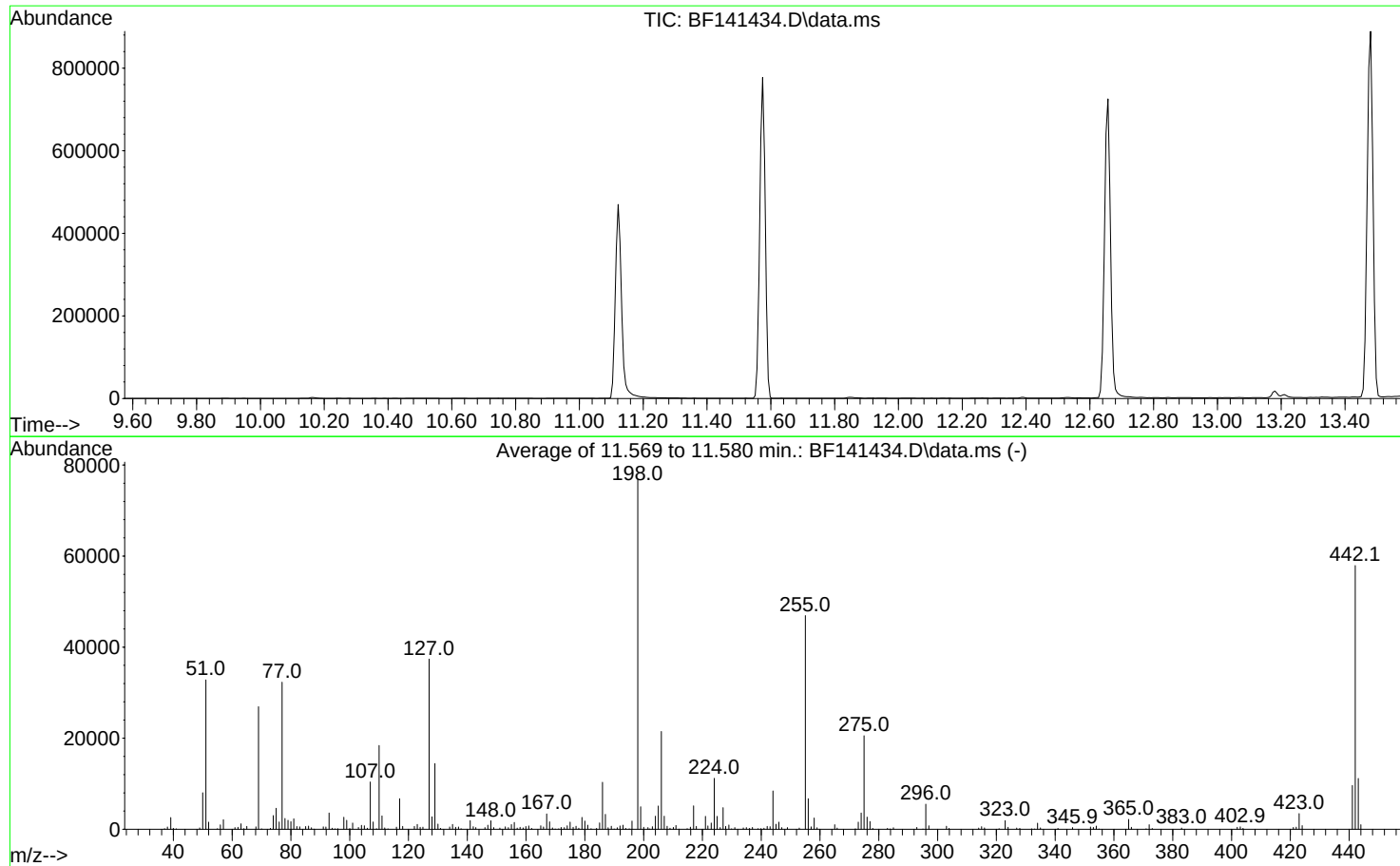
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.67
183.00	11.90	11.87
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141434.D
Acq On : 05 Feb 2025 09:36
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-BF012925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 29 17:41:25 2025



AutoFind: Scans 1611, 1612, 1613; Background Corrected with Scan 1605

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	42.7	32805	PASS
68	69	0.00	2	2.0	529	PASS
69	198	0.00	100	35.1	26925	PASS
70	69	0.00	2	0.4	108	PASS
127	198	10	80	48.7	37376	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	76800	PASS
199	198	5	9	6.4	4937	PASS
275	198	10	60	26.8	20563	PASS
365	198	1	100	2.8	2166	PASS
441	198	0.01	100	12.5	9611	PASS
442	442	50	100	100.0	57928	PASS
443	442	15	24	19.2	11149	PASS

Instrument :
BNA_F
ClientSampleId :
DFTPP

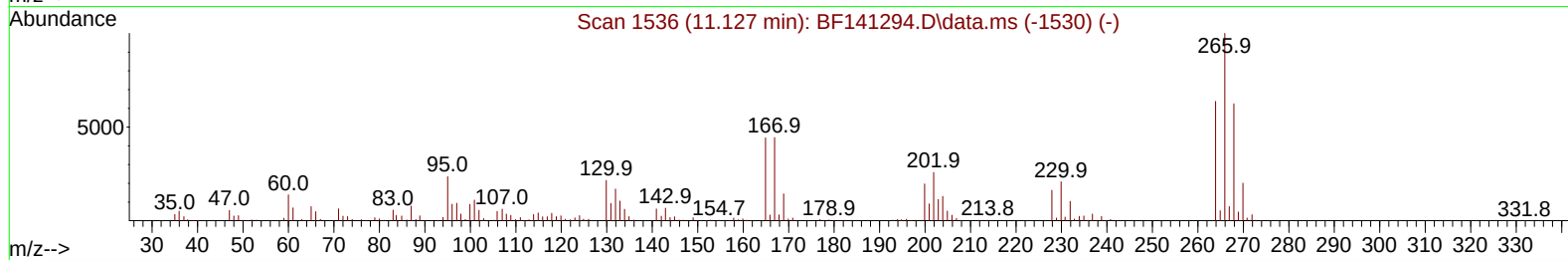
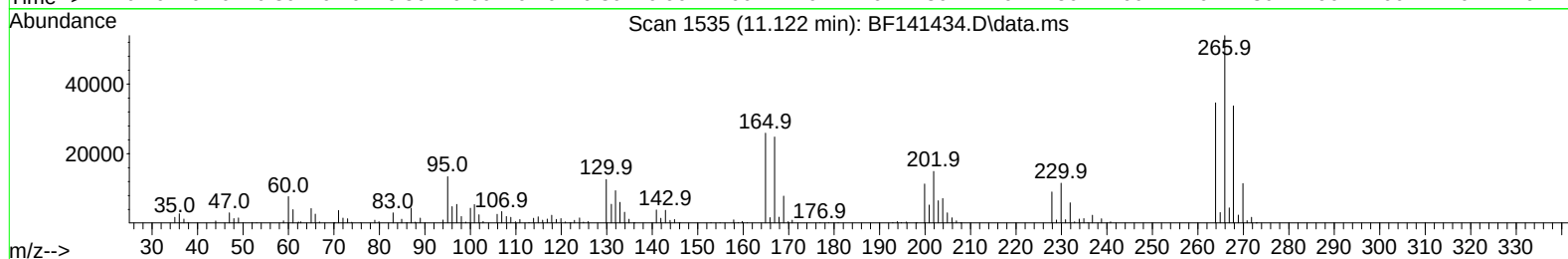
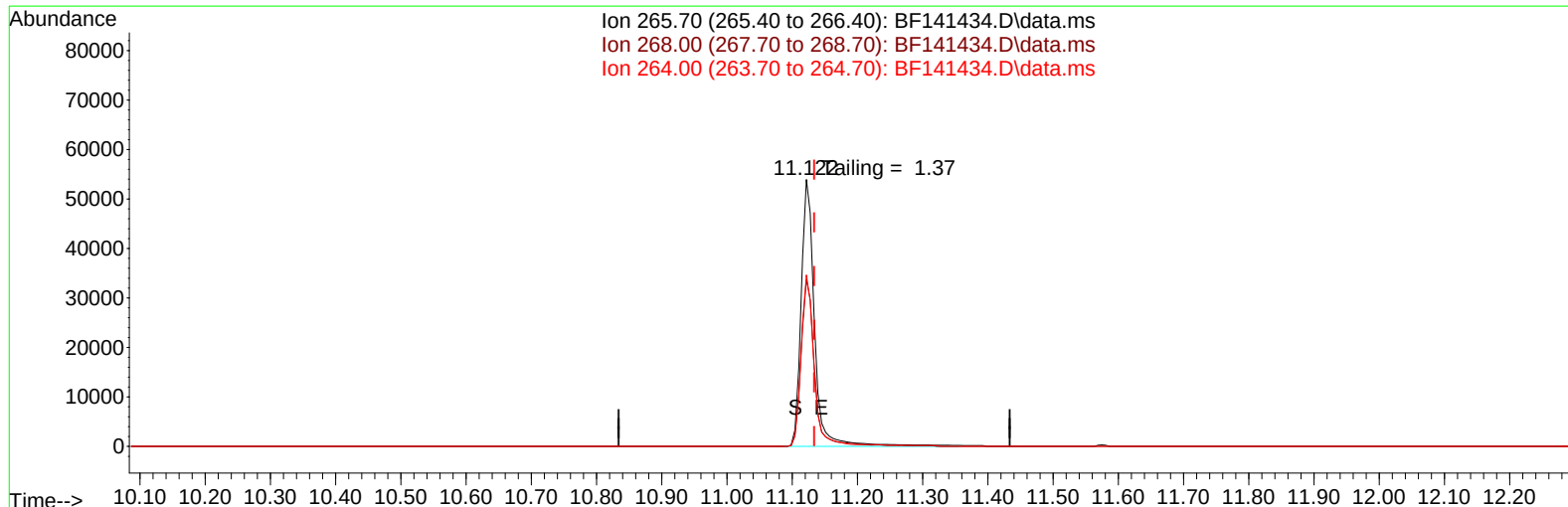
DDT Breakdown

Date	Instrument Name	DFTPP Data File
2/5/2025	BNA_F	<u>BF141434.D</u>
Compound Name	Response	Retention Time
DDT	219771	13.48
DDD	7608	13.18
DDE	480	12.845
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
8088	227859	3.55

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141434.D
Acq On : 05 Feb 2025 09:36
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 05 10:46:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration



TIC: BF141434.D\data.ms

(70) Pentachlorophenol (C)

11.122min (-0.012) 27136.66 ng

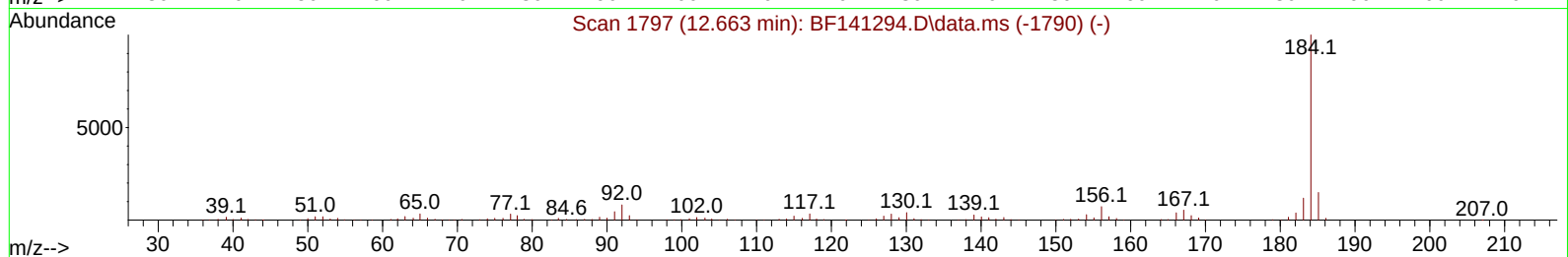
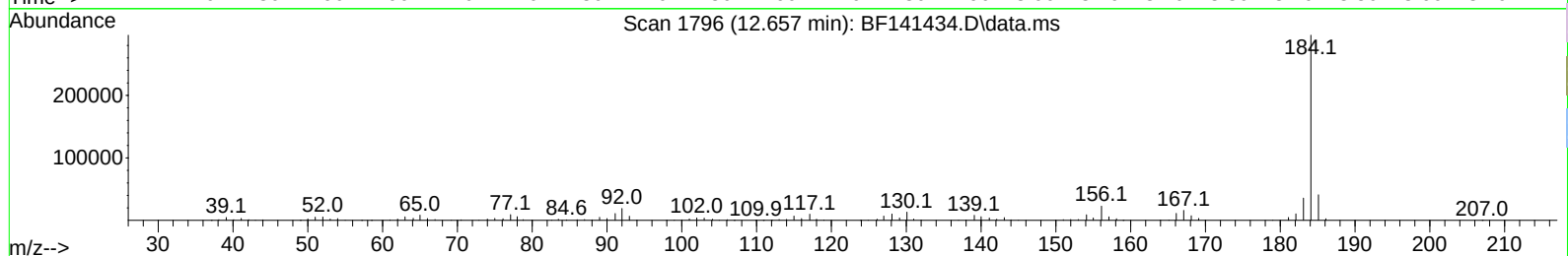
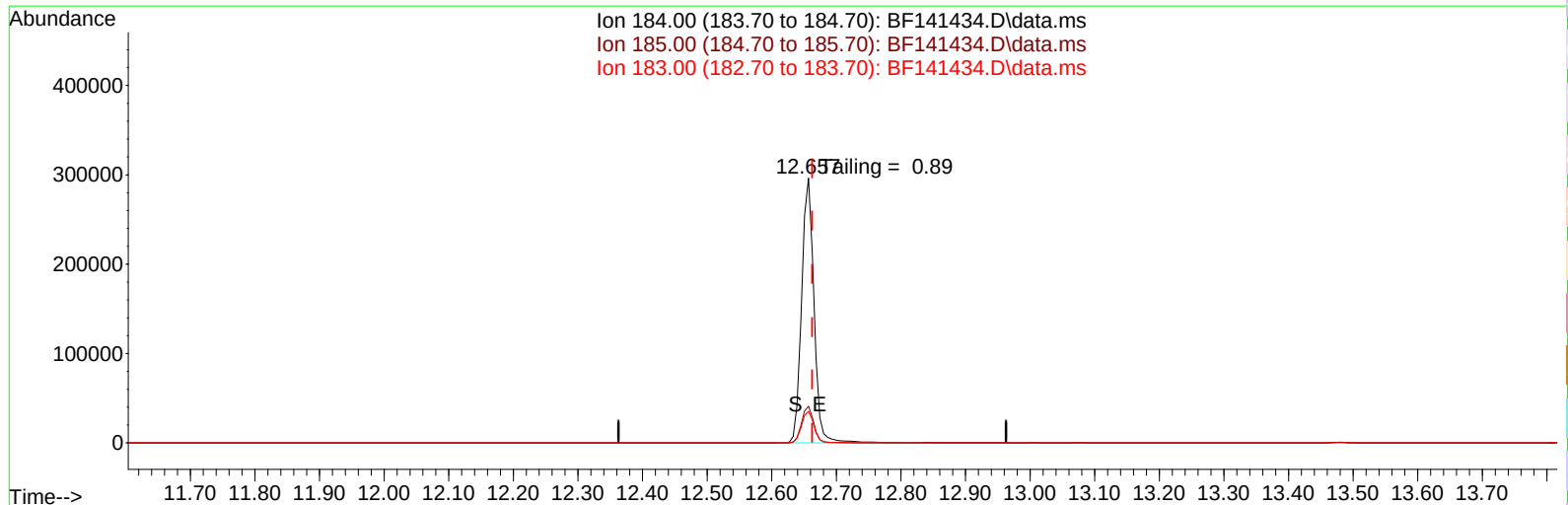
response 77371

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.40	62.57
264.00	63.70	64.19
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141434.D
Acq On : 05 Feb 2025 09:36
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 05 10:46:14 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration



TIC: BF141434.D\data.ms

(77) Benzidine

12.657min (-0.006) 0.00 ng

response 393319

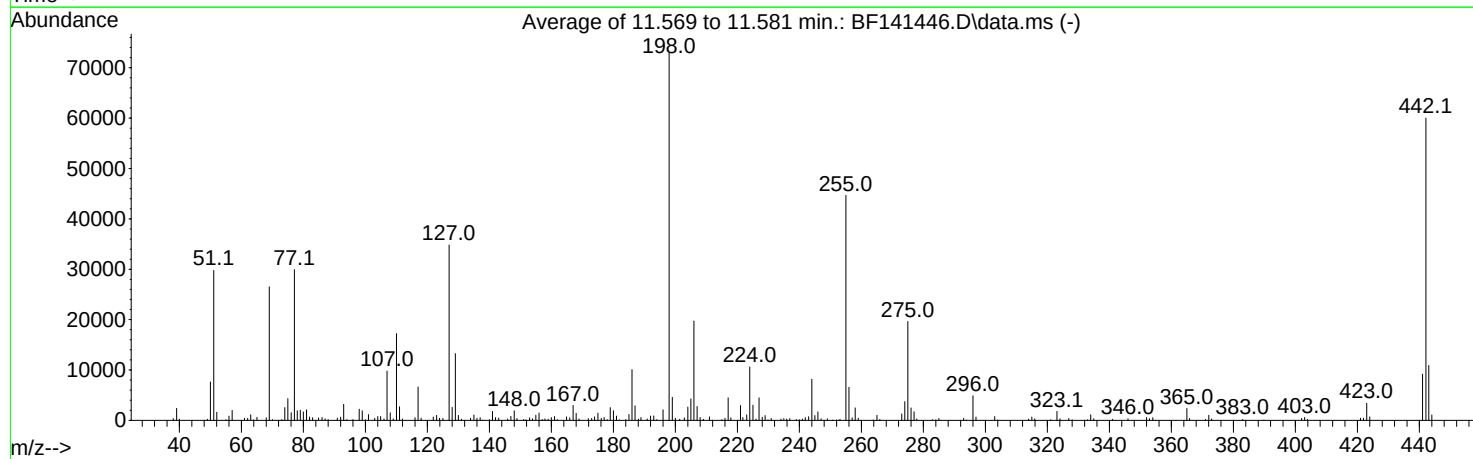
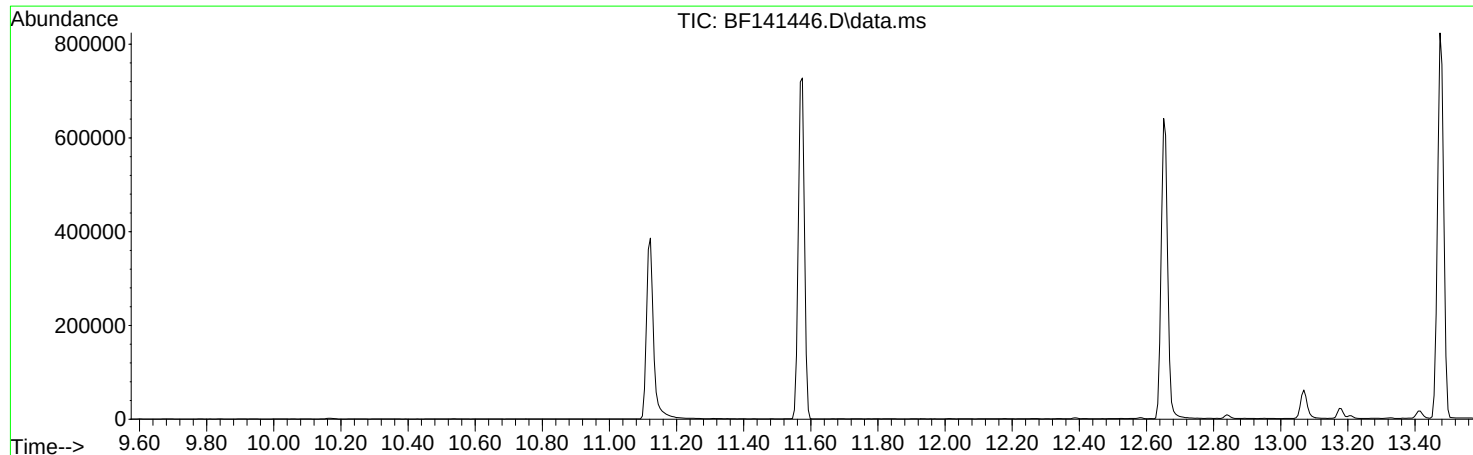
Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	13.83
183.00	11.90	12.02
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141446.D
Acq On : 05 Feb 2025 14:50
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-BF012925.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
Last Update : Wed Jan 29 17:41:25 2025



AutoFind: Scans 1611, 1612, 1613; Background Corrected with Scan 1604

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
51	198	10	80	40.8	29779	PASS
68	69	0.00	2	1.9	505	PASS
69	198	0.00	100	36.3	26508	PASS
70	69	0.00	2	0.6	149	PASS
127	198	10	80	47.7	34819	PASS
197	198	0.00	2	0.0	0	PASS
198	198	100	100	100.0	73027	PASS
199	198	5	9	6.3	4572	PASS
275	198	10	60	26.9	19638	PASS
365	198	1	100	3.2	2360	PASS
441	198	0.01	100	12.6	9188	PASS
442	442	50	100	100.0	59989	PASS
443	442	15	24	18.2	10895	PASS

Instrument :
BNA_F
ClientSampleId :
DFTPP

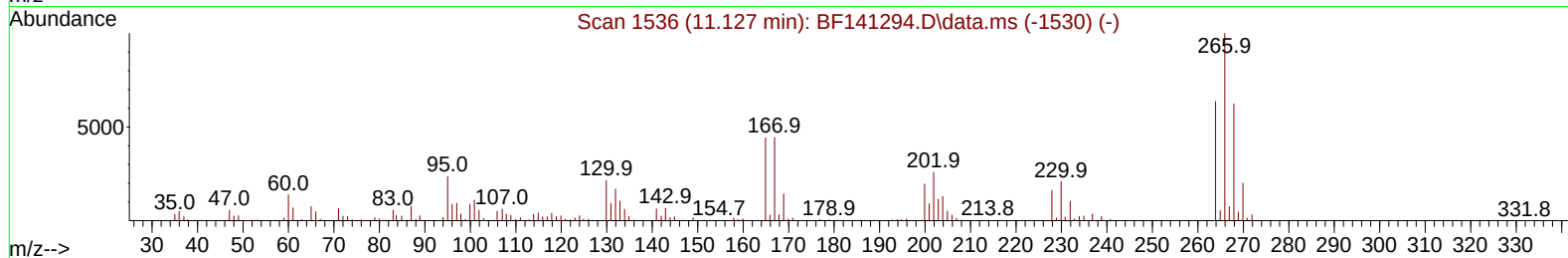
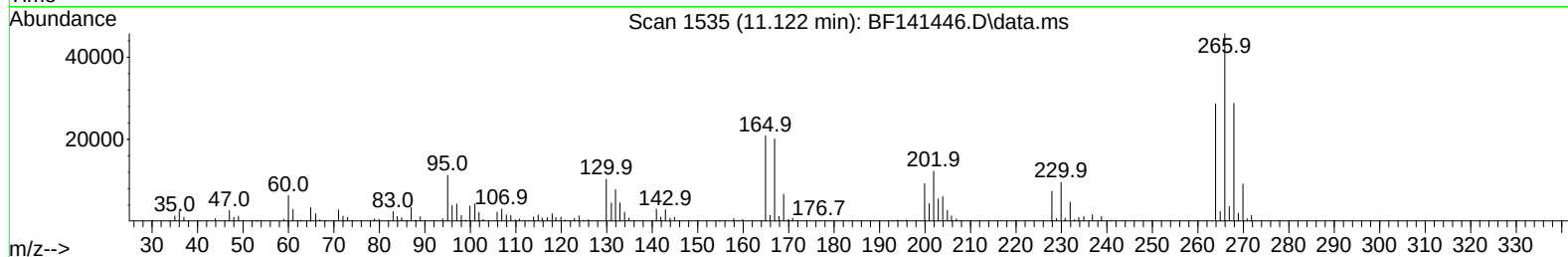
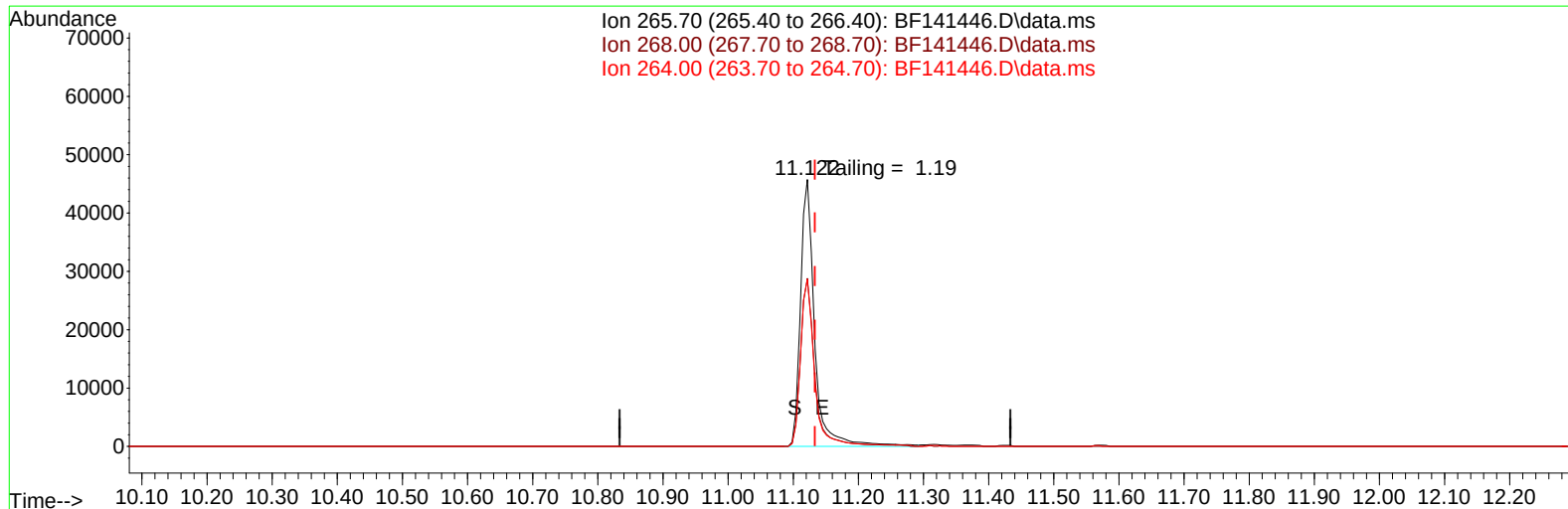
DDT Breakdown

Date	Instrument Name	DFTPP Data File
2/5/2025	BNA_F	<u>BF141446.D</u>
Compound Name	Response	Retention Time
DDT	208681	13.475
DDD	8639	13.18
DDE	1933	12.839
SUM(DDD+DDE)	SUM(DDT+DDD+DDE)	% Breakdown Of DDT
10572	219253	4.82

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141446.D
Acq On : 05 Feb 2025 14:50
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 05 15:11:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration



TIC: BF141446.D\data.ms

(70) Pentachlorophenol (C)

11.122min (-0.012) 28277.45 ng

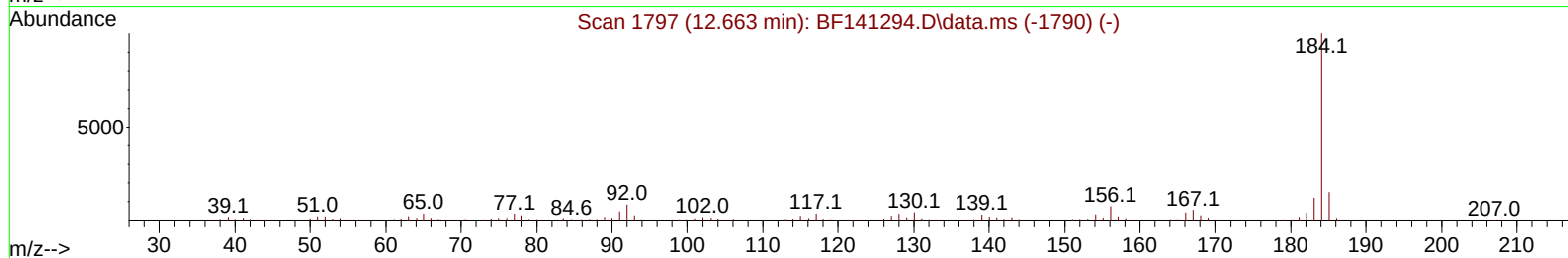
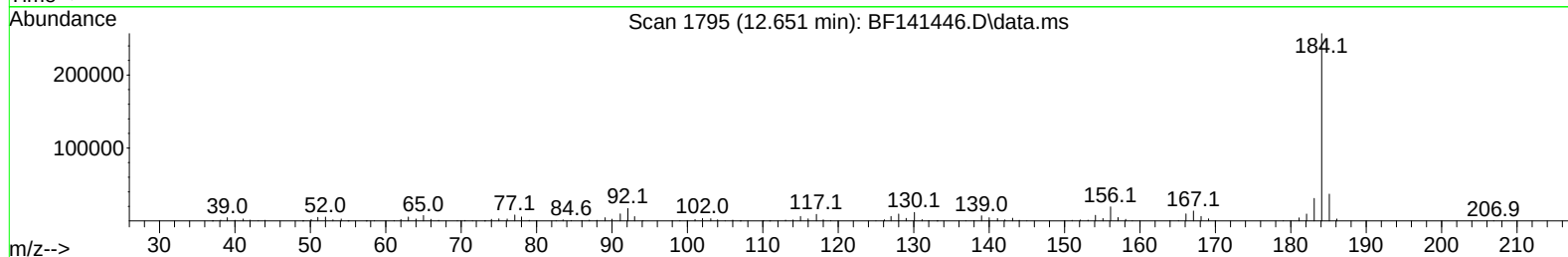
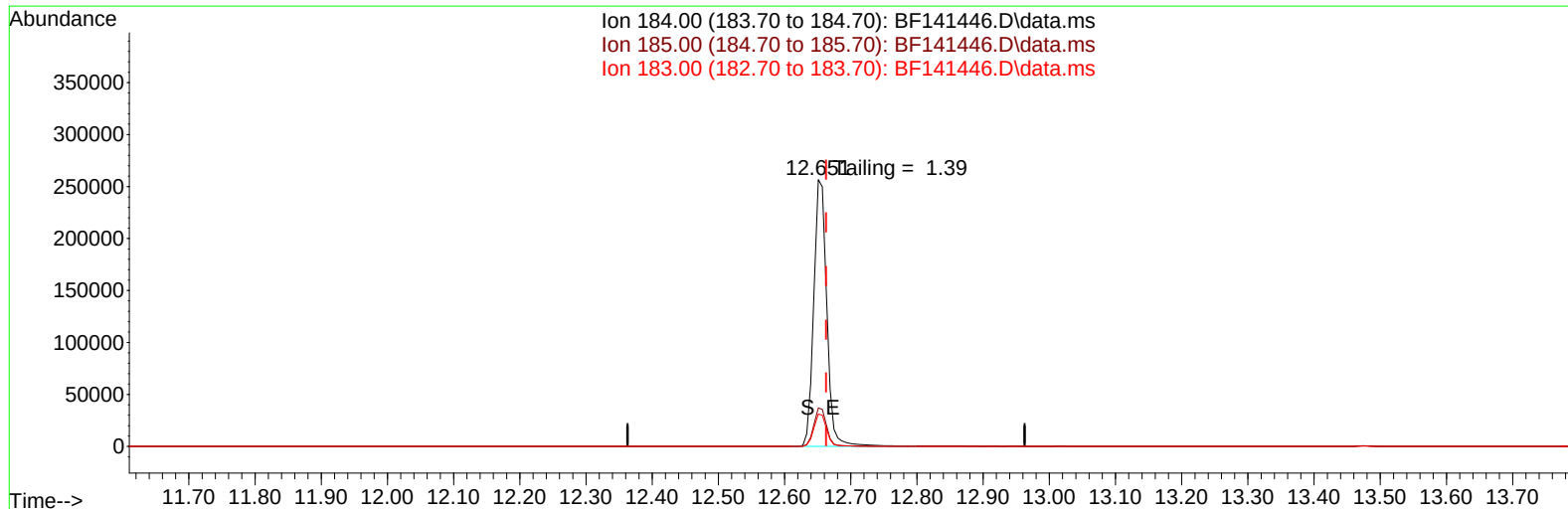
response 68825

Ion	Exp%	Act%
265.70	100.00	100.00
268.00	62.40	62.95
264.00	63.70	62.66
0.00	0.00	0.00

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
Data File : BF141446.D
Acq On : 05 Feb 2025 14:50
Operator : RC/JU
Sample : DFTPP
Misc :
ALS Vial : 1 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
DFTPP

Quant Time: Feb 05 15:11:06 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration



TIC: BF141446.D\data.ms

(77) Benzidine

12.651min (-0.012) 0.00 ng

response 352285

Ion	Exp%	Act%
184.00	100.00	100.00
185.00	14.90	14.37
183.00	11.90	12.10
0.00	0.00	0.00

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166354BL	SDG No.:	Q1207
Lab Sample ID:	PB166354BL	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141337.D	1	01/29/25 12:35	01/31/25 17:46	PB166354

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	5.00	U	1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	5.00	U	0.84	5.00	ug/L
95-48-7	2-Methylphenol	5.00	U	1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	10.0	U	1.20	10.0	ug/L
67-72-1	Hexachloroethane	5.00	U	1.00	5.00	ug/L
98-95-3	Nitrobenzene	5.00	U	1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	5.00	U	1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	5.00	U	0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	5.00	U	1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	5.00	U	1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	5.00	U	1.10	5.00	ug/L
87-86-5	Pentachlorophenol	10.0	U	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	125		10 - 139	83%	SPK: 150
13127-88-3	Phenol-d6	122		10 - 134	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.9		49 - 133	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	82.9		52 - 132	83%	SPK: 100
118-79-6	2,4,6-Tribromophenol	125		44 - 137	84%	SPK: 150
1718-51-0	Terphenyl-d14	88.0		48 - 125	88%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	138000	6.799			
1146-65-2	Naphthalene-d8	555000	8.075			
15067-26-2	Acenaphthene-d10	303000	9.834			
1517-22-2	Phenanthrene-d10	519000	11.322			
1719-03-5	Chrysene-d12	314000	13.963			
1520-96-3	Perylene-d12	272000	15.427			

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166354BL	SDG No.:	Q1207
Lab Sample ID:	PB166354BL	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141337.D	1	01/29/25 12:35	01/31/25 17:46	PB166354

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\BF013125\
Data File : BF141337.D
Acq On : 31 Jan 2025 17:46
Operator : RC/JU
Sample : PB166354BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166354BL

Quant Time: Jan 31 22:29:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.799	152	138010	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	554699	20.000	ng	-0.01
39) Acenaphthene-d10	9.834	164	302564	20.000	ng	0.00
64) Phenanthrene-d10	11.322	188	518908	20.000	ng	0.00
76) Chrysene-d12	13.963	240	314414	20.000	ng	-0.01
86) Perylene-d12	15.427	264	272271	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	1123406	124.966	ng	0.00
7) Phenol-d6	6.422	99	1391620	121.687	ng	-0.02
23) Nitrobenzene-d5	7.357	82	904348	85.946	ng	-0.01
42) 2,4,6-Tribromophenol	10.622	330	347598	125.314	ng	-0.01
45) 2-Fluorobiphenyl	9.157	172	1629412	82.891	ng	0.00
79) Terphenyl-d14	12.916	244	1795121	88.050	ng	0.00

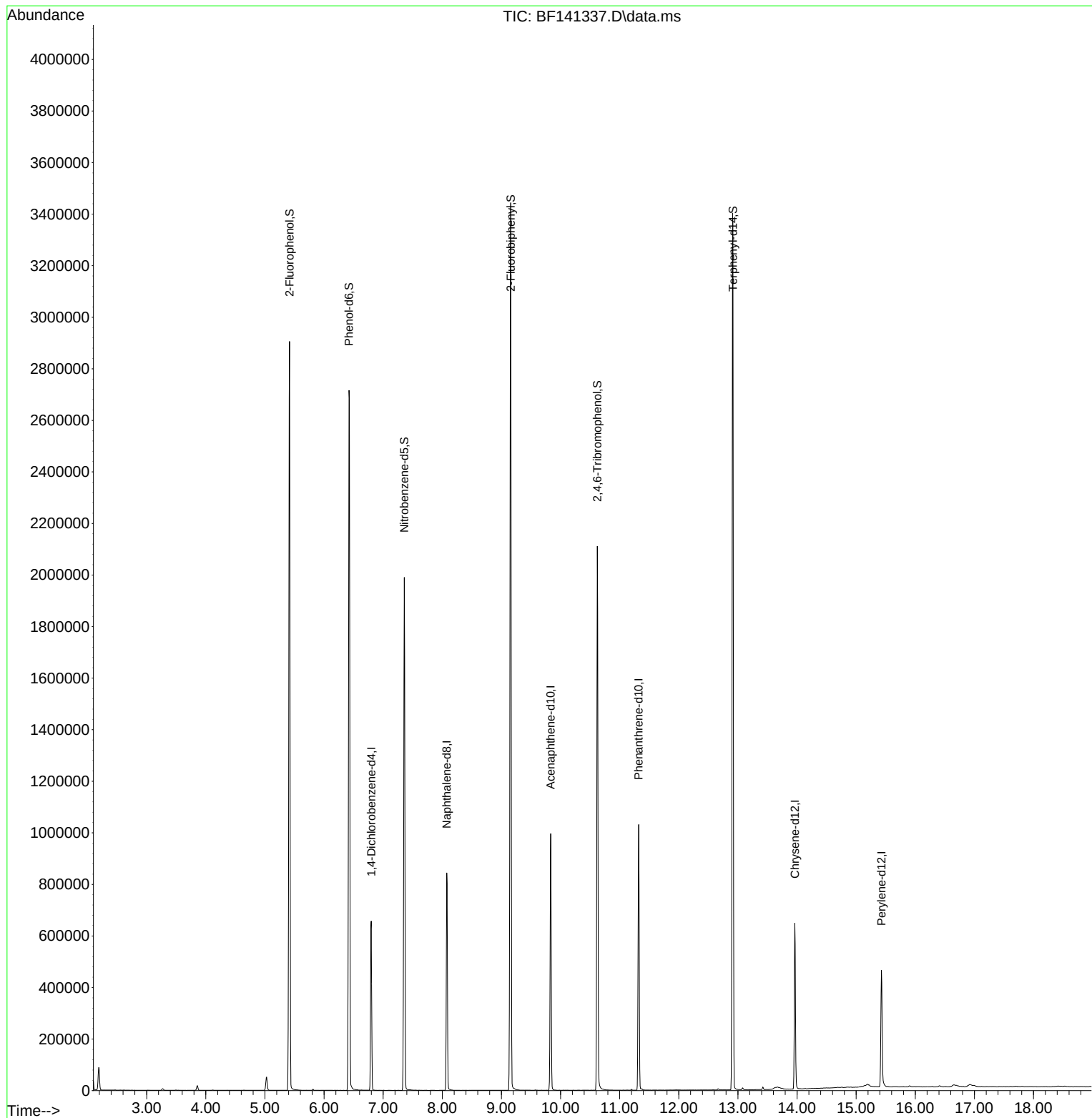
Target Compounds	Qvalue

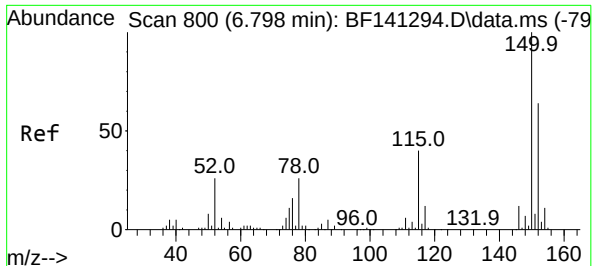
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
Data File : BF141337.D
Acq On : 31 Jan 2025 17:46
Operator : RC/JU
Sample : PB166354BL
Misc :
ALS Vial : 3 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
PB166354BL

Quant Time: Jan 31 22:29:25 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

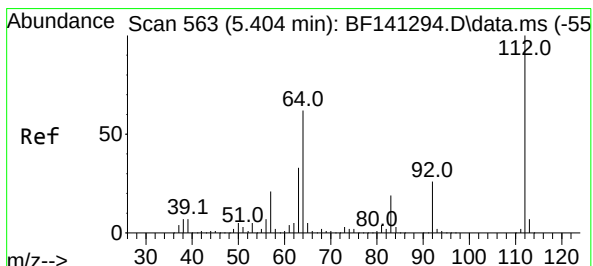
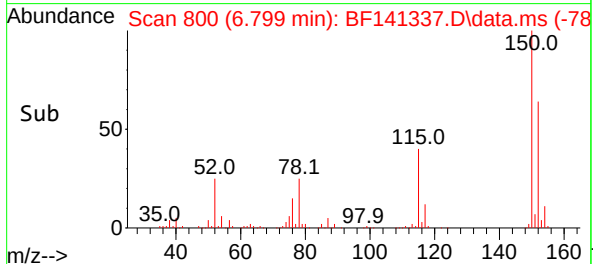
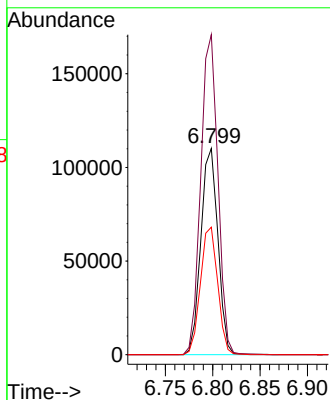
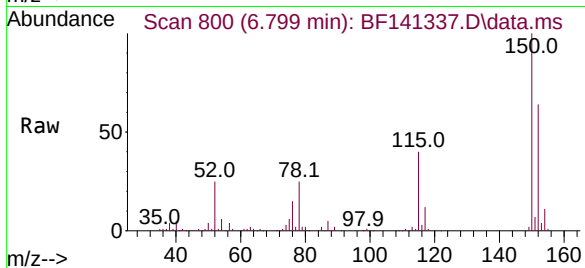




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.799 min Scan# 800
Delta R.T. -0.005 min
Lab File: BF141337.D
Acq: 31 Jan 2025 17:46

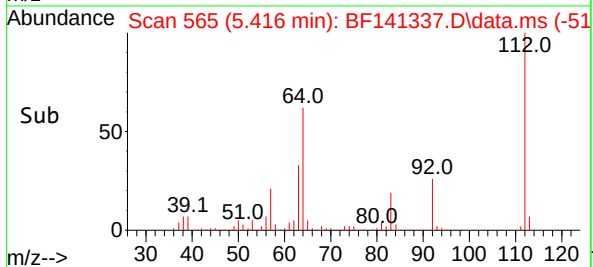
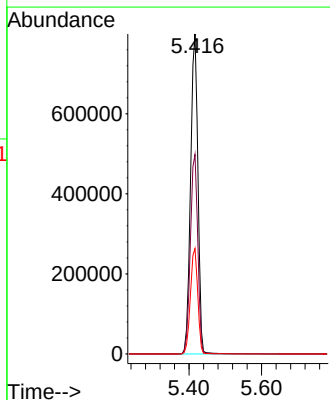
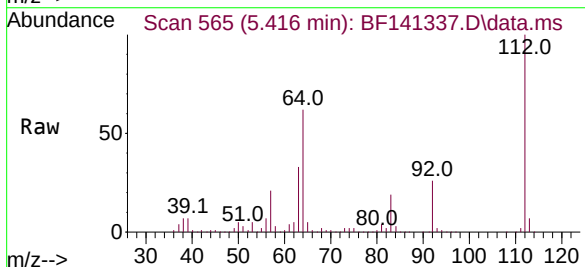
Instrument :
BNA_F
ClientSampleId :
PB166354BL

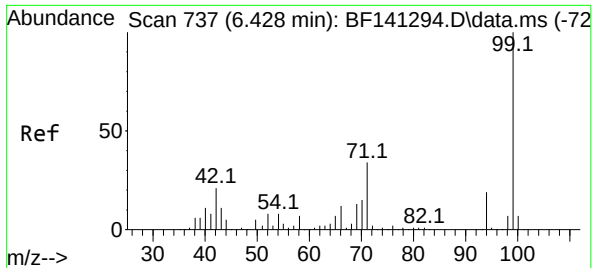
Tgt Ion:152 Resp: 138010
Ion Ratio Lower Upper
152 100
150 155.1 125.9 188.9
115 61.8 49.7 74.5



#5
2-Fluorophenol
Concen: 124.966 ng
RT: 5.416 min Scan# 565
Delta R.T. 0.006 min
Lab File: BF141337.D
Acq: 31 Jan 2025 17:46

Tgt Ion:112 Resp: 1123406
Ion Ratio Lower Upper
112 100
64 62.4 49.8 74.8
63 32.9 26.1 39.1

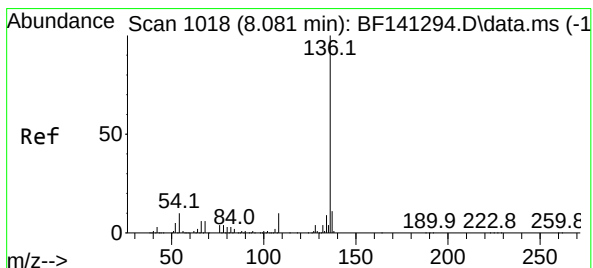
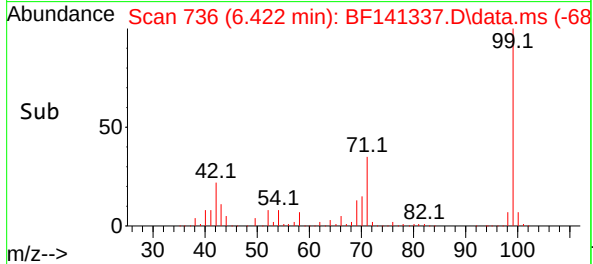
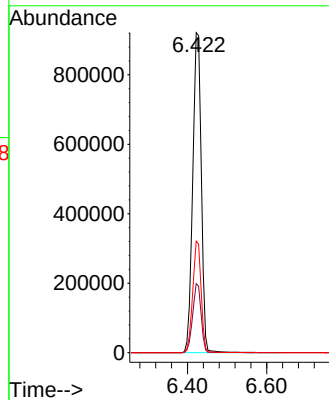
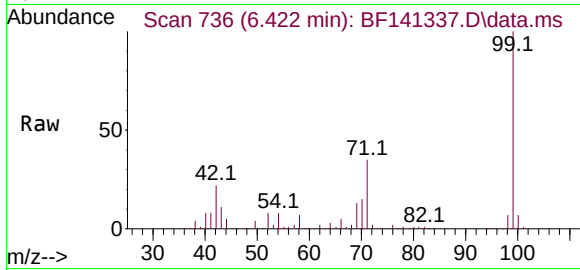




#7
Phenol-d6
Concen: 121.687 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF141337.D
Acq: 31 Jan 2025 17:46

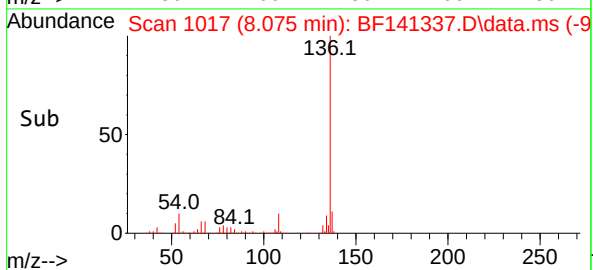
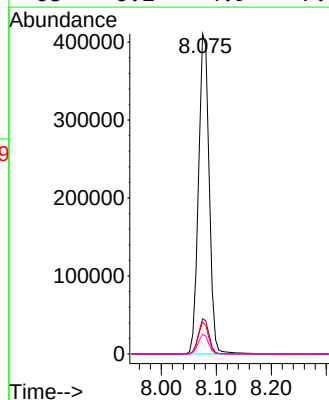
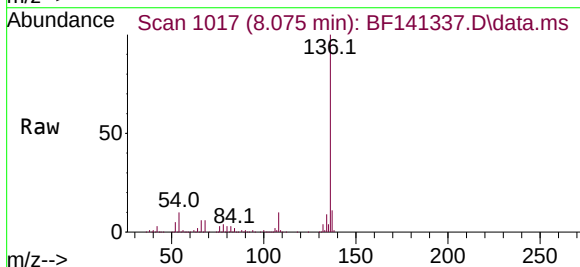
Instrument :
BNA_F
ClientSampleId :
PB166354BL

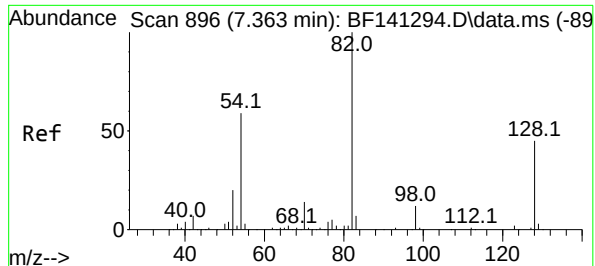
Tgt Ion: 99 Resp: 1391620
Ion Ratio Lower Upper
99 100
42 21.6 17.1 25.7
71 34.9 26.9 40.3



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.075 min Scan# 1017
Delta R.T. -0.012 min
Lab File: BF141337.D
Acq: 31 Jan 2025 17:46

Tgt Ion: 136 Resp: 554699
Ion Ratio Lower Upper
136 100
137 11.0 8.6 13.0
54 9.9 7.8 11.8
68 6.2 4.9 7.3





#23

Nitrobenzene-d5

Concen: 85.946 ng

RT: 7.357 min Scan# 89

Delta R.T. -0.012 min

Lab File: BF141337.D

Acq: 31 Jan 2025 17:46

Instrument :

BNA_F

ClientSampleId :

PB166354BL

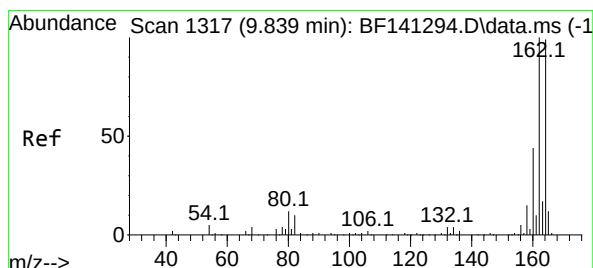
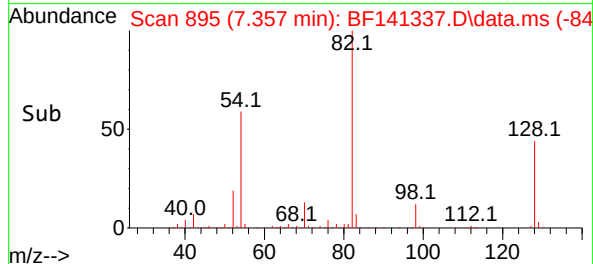
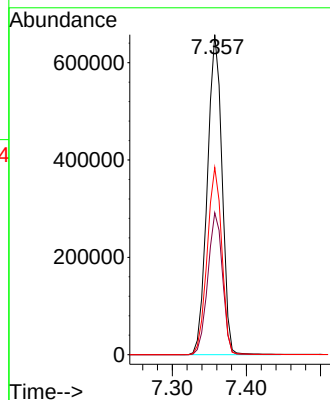
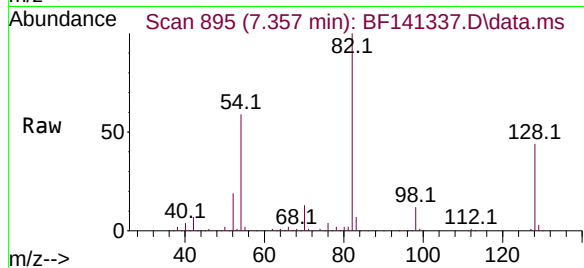
Tgt Ion: 82 Resp: 904348

Ion Ratio Lower Upper

82 100

128 44.3 35.7 53.5

54 58.5 47.1 70.7



#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.834 min Scan# 1316

Delta R.T. -0.006 min

Lab File: BF141337.D

Acq: 31 Jan 2025 17:46

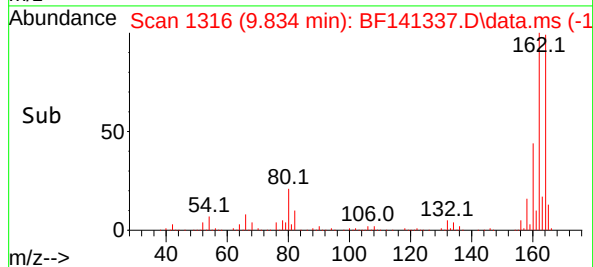
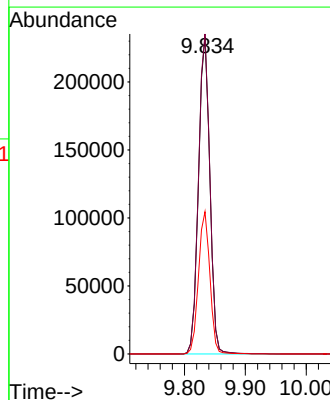
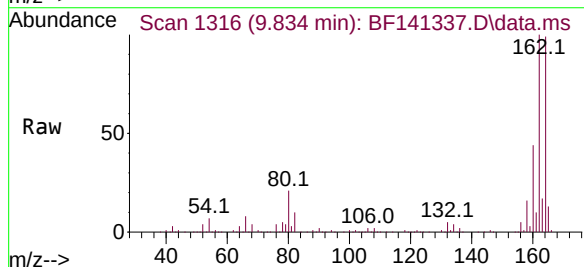
Tgt Ion:164 Resp: 302564

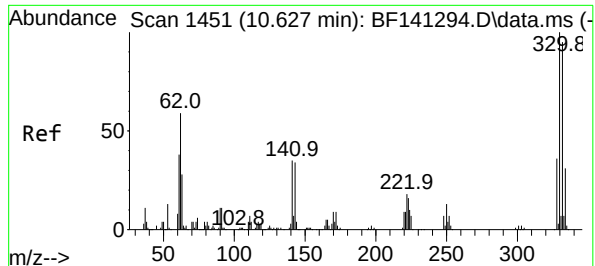
Ion Ratio Lower Upper

164 100

162 100.9 80.6 121.0

160 44.8 35.8 53.6





#42

2,4,6-Tribromophenol

Concen: 125.314 ng

RT: 10.622 min Scan# 1451

Delta R.T. -0.012 min

Lab File: BF141337.D

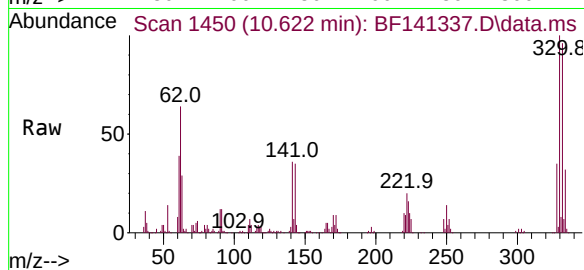
Acq: 31 Jan 2025 17:46

Instrument :

BNA_F

ClientSampleId :

PB166354BL



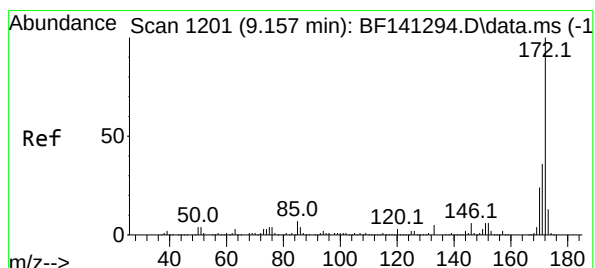
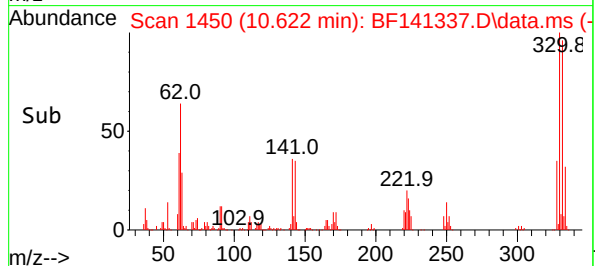
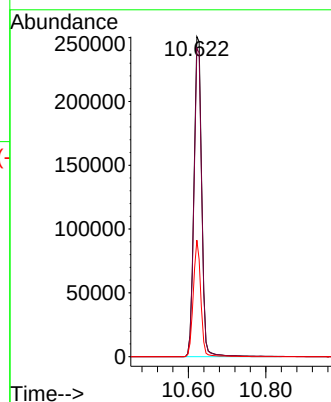
Tgt Ion:330 Resp: 347598

Ion Ratio Lower Upper

330 100

332 96.1 76.1 114.1

141 35.2 28.8 43.2



#45

2-Fluorobiphenyl

Concen: 82.891 ng

RT: 9.157 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF141337.D

Acq: 31 Jan 2025 17:46

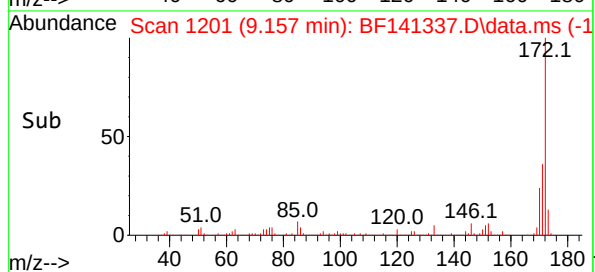
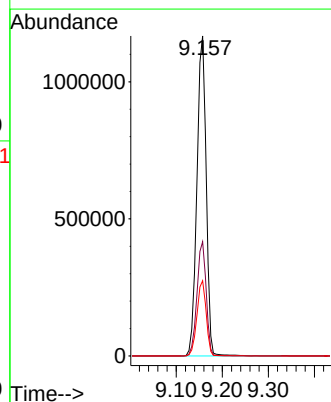
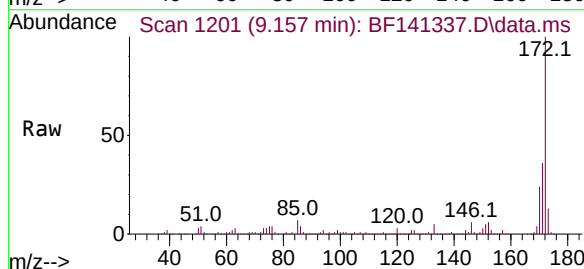
Tgt Ion:172 Resp: 1629412

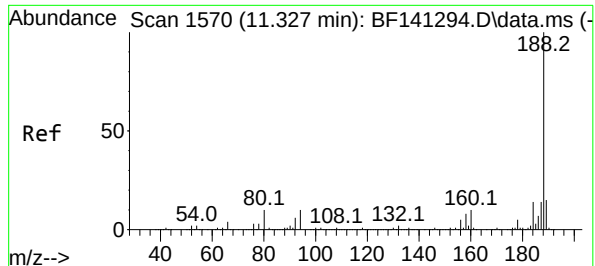
Ion Ratio Lower Upper

172 100

171 35.7 28.8 43.2

170 23.5 19.0 28.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.322 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF141337.D

Acq: 31 Jan 2025 17:46

Instrument :

BNA_F

ClientSampleId :

PB166354BL

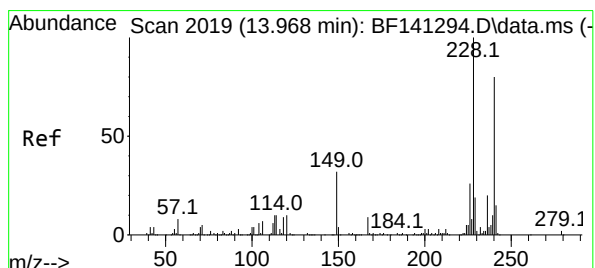
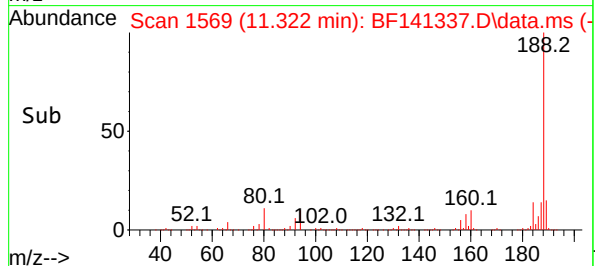
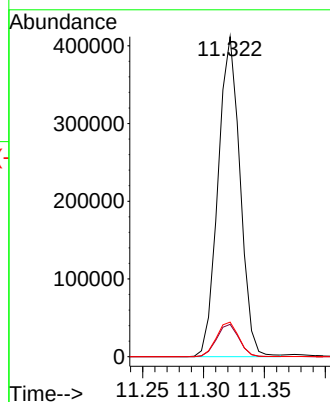
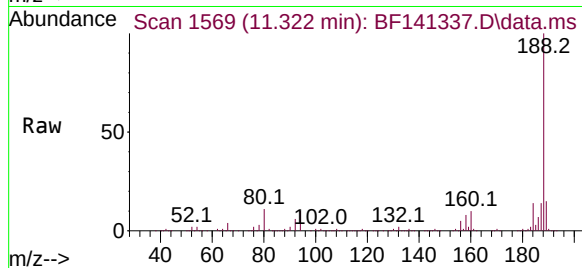
Tgt Ion:188 Resp: 518908

Ion Ratio Lower Upper

188 100

94 10.1 7.8 11.6

80 10.8 8.2 12.4



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.963 min Scan# 2018

Delta R.T. -0.012 min

Lab File: BF141337.D

Acq: 31 Jan 2025 17:46

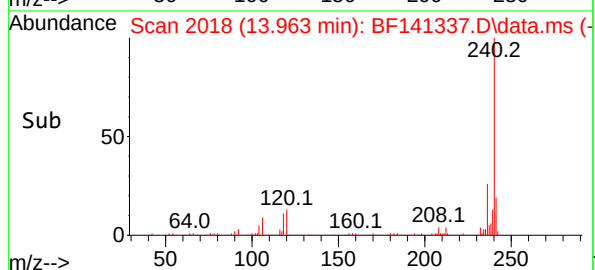
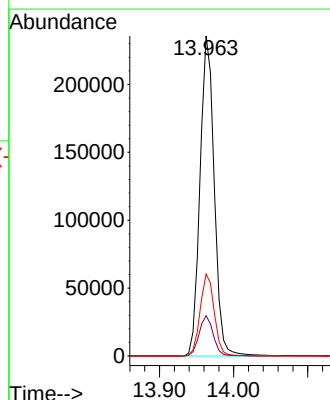
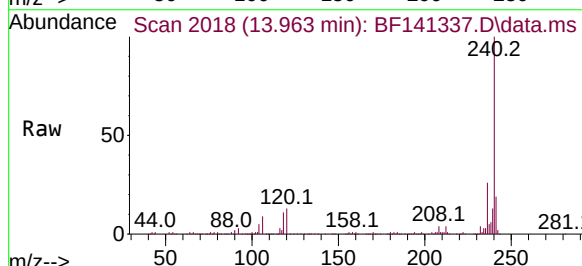
Tgt Ion:240 Resp: 314414

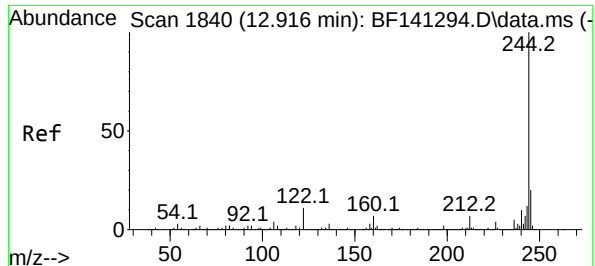
Ion Ratio Lower Upper

240 100

120 12.6 10.0 15.0

236 25.6 19.7 29.5





#79

Terphenyl-d14

Concen: 88.050 ng

RT: 12.916 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF141337.D

Acq: 31 Jan 2025 17:46

Instrument :

BNA_F

ClientSampleId :

PB166354BL

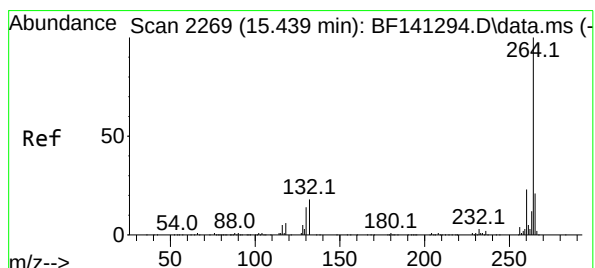
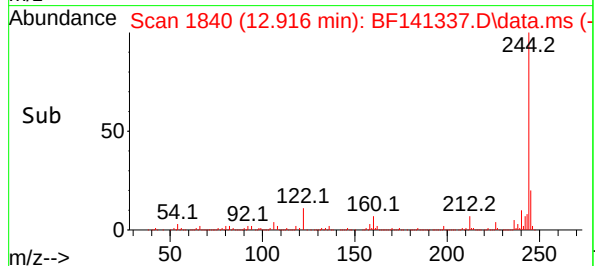
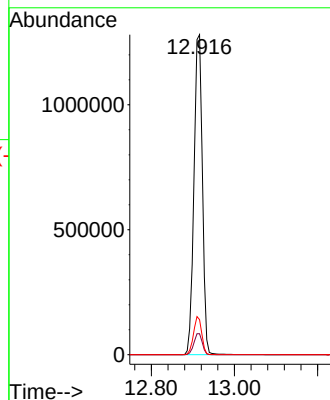
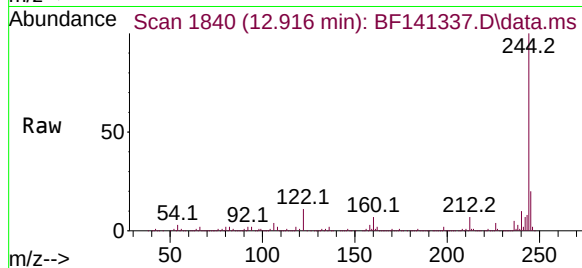
Tgt Ion:244 Resp: 1795121

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

122 11.0 8.8 13.2



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.427 min Scan# 2267

Delta R.T. -0.012 min

Lab File: BF141337.D

Acq: 31 Jan 2025 17:46

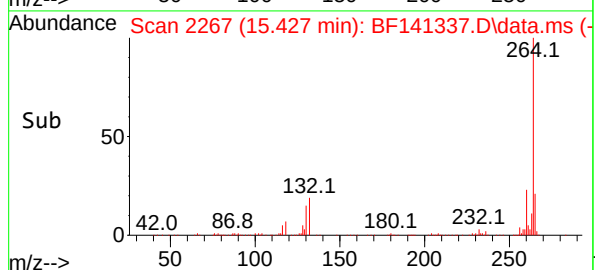
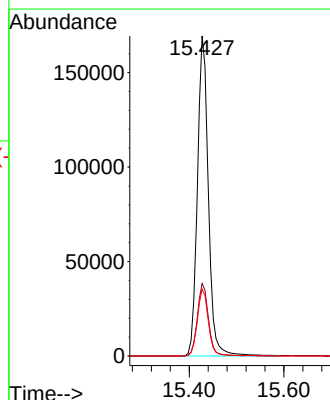
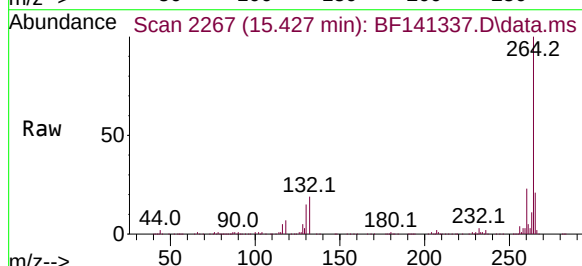
Tgt Ion:264 Resp: 272271

Ion Ratio Lower Upper

264 100

260 22.6 18.6 27.8

265 20.9 16.7 25.1



Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166354BS	SDG No.:	Q1207
Lab Sample ID:	PB166354BS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141445.D	1	01/29/25 12:35	02/05/25 14:24	PB166354

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	38.6		1.60	5.00	ug/L
106-46-7	1,4-Dichlorobenzene	46.7		0.84	5.00	ug/L
95-48-7	2-Methylphenol	45.8		1.10	5.00	ug/L
65794-96-9	3+4-Methylphenols	48.2		1.20	10.0	ug/L
67-72-1	Hexachloroethane	48.9		1.00	5.00	ug/L
98-95-3	Nitrobenzene	47.0		1.30	5.00	ug/L
87-68-3	Hexachlorobutadiene	49.7		1.30	5.00	ug/L
88-06-2	2,4,6-Trichlorophenol	50.3		0.89	5.00	ug/L
95-95-4	2,4,5-Trichlorophenol	49.8		1.00	5.00	ug/L
121-14-2	2,4-Dinitrotoluene	52.3		1.50	5.00	ug/L
118-74-1	Hexachlorobenzene	49.8		1.10	5.00	ug/L
87-86-5	Pentachlorophenol	100	E	1.90	10.0	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	135		10 - 139	90%	SPK: 150
13127-88-3	Phenol-d6	128		10 - 134	85%	SPK: 150
4165-60-0	Nitrobenzene-d5	96.9		49 - 133	97%	SPK: 100
321-60-8	2-Fluorobiphenyl	96.5		52 - 132	96%	SPK: 100
118-79-6	2,4,6-Tribromophenol	159		44 - 137	106%	SPK: 150
1718-51-0	Terphenyl-d14	95.9		48 - 125	96%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	68600		6.787		
1146-65-2	Naphthalene-d8	267000		8.075		
15067-26-2	Acenaphthene-d10	146000		9.828		
1517-22-2	Phenanthrene-d10	256000		11.316		
1719-03-5	Chrysene-d12	181000		13.963		
1520-96-3	Perylene-d12	152000		15.427		

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	
Client Sample ID:	PB166354BS	SDG No.:	Q1207
Lab Sample ID:	PB166354BS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	1000 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141445.D	1	01/29/25 12:35	02/05/25 14:24	PB166354

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\BF020525\
 Data File : BF141445.D
 Acq On : 05 Feb 2025 14:24
 Operator : RC/JU
 Sample : PB166354BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025

Quant Time: Feb 05 15:10:14 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 17:41:25 2025

Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.787	152	68626	20.000	ng	-0.02
21) Naphthalene-d8	8.075	136	266966	20.000	ng	#-0.01
39) Acenaphthene-d10	9.828	164	145742	20.000	ng	-0.01
64) Phenanthrene-d10	11.316	188	256036	20.000	ng	-0.01
76) Chrysene-d12	13.963	240	181162	20.000	ng	-0.01
86) Perylene-d12	15.427	264	151994	20.000	ng	-0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	603037	134.903	ng	0.00
7) Phenol-d6	6.434	99	728485	128.105	ng	0.00
23) Nitrobenzene-d5	7.351	82	490667	96.890	ng	-0.02
42) 2,4,6-Tribromophenol	10.622	330	212518	159.056	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	913712	96.498	ng	-0.01
79) Terphenyl-d14	12.904	244	1126962	95.935	ng	-0.01
Target Compounds						
						Qvalue
2) 1,4-Dioxane	2.546	88	72184	36.717	ng	95
3) Pyridine	3.275	79	182711	38.573	ng	95
4) n-Nitrosodimethylamine	3.222	42	135924	50.232	ng	84
6) Aniline	6.451	93	181890	37.786	ng	# 10
8) 2-Chlorophenol	6.581	128	230490	48.107	ng	96
9) Benzaldehyde	6.340	77	21351	6.482	ng	97
10) Phenol	6.445	94	273520	45.374	ng	# 68
11) bis(2-Chloroethyl)ether	6.528	93	209406	45.306	ng	97
12) 1,3-Dichlorobenzene	6.728	146	241954	45.800	ng	99
13) 1,4-Dichlorobenzene	6.804	146	248016	46.733	ng	99
14) 1,2-Dichlorobenzene	6.957	146	235419	47.373	ng	98
15) Benzyl Alcohol	6.934	79	203135	52.271	ng	97
16) 2,2'-oxybis(1-Chloropr...	7.063	45	354485	44.105	ng	67
17) 2-Methylphenol	7.051	107	178277	45.782	ng	# 90
18) Hexachloroethane	7.298	117	95800	48.932	ng	99
19) n-Nitroso-di-n-propyla...	7.204	70	161029	47.656	ng	99
20) 3+4-Methylphenols	7.204	107	230609	48.232	ng	94
22) Acetophenone	7.198	105	319022	50.273	ng	98
24) Nitrobenzene	7.375	77	246578	46.985	ng	100
25) Isophorone	7.610	82	424353	48.476	ng	98
26) 2-Nitrophenol	7.686	139	121983	49.285	ng	90
27) 2,4-Dimethylphenol	7.734	122	178612m	56.696	ng	
28) bis(2-Chloroethoxy)met...	7.822	93	257162	46.055	ng	99
29) 2,4-Dichlorophenol	7.939	162	187988	48.743	ng	99
30) 1,2,4-Trichlorobenzene	8.016	180	205216	46.593	ng	99
31) Naphthalene	8.092	128	671445	47.610	ng	100
32) Benzoic acid	7.857	122	136775	47.228	ng	97
33) 4-Chloroaniline	8.145	127	98370	20.569	ng	99
34) Hexachlorobutadiene	8.210	225	128349	49.691	ng	99
35) Caprolactam	8.510	113	58971m	46.819	ng	
36) 4-Chloro-3-methylphenol	8.639	107	211551	51.138	ng	96
37) 2-Methylnaphthalene	8.786	142	440350	49.126	ng	100
38) 1-Methylnaphthalene	8.886	142	406509	46.167	ng	98
40) 1,2,4,5-Tetrachloroben...	8.951	216	203886	49.174	ng	98
41) Hexachlorocyclopentadiene	8.939	237	231393	188.971	ng	99
43) 2,4,6-Trichlorophenol	9.069	196	136431	50.272	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF020525\
 Data File : BF141445.D
 Acq On : 05 Feb 2025 14:24
 Operator : RC/JU
 Sample : PB166354BS
 Misc :
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PB166354BS

Quant Time: Feb 05 15:10:14 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 29 17:41:25 2025
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 02/06/2025
 Supervised By :mohammad ahmed 02/06/2025

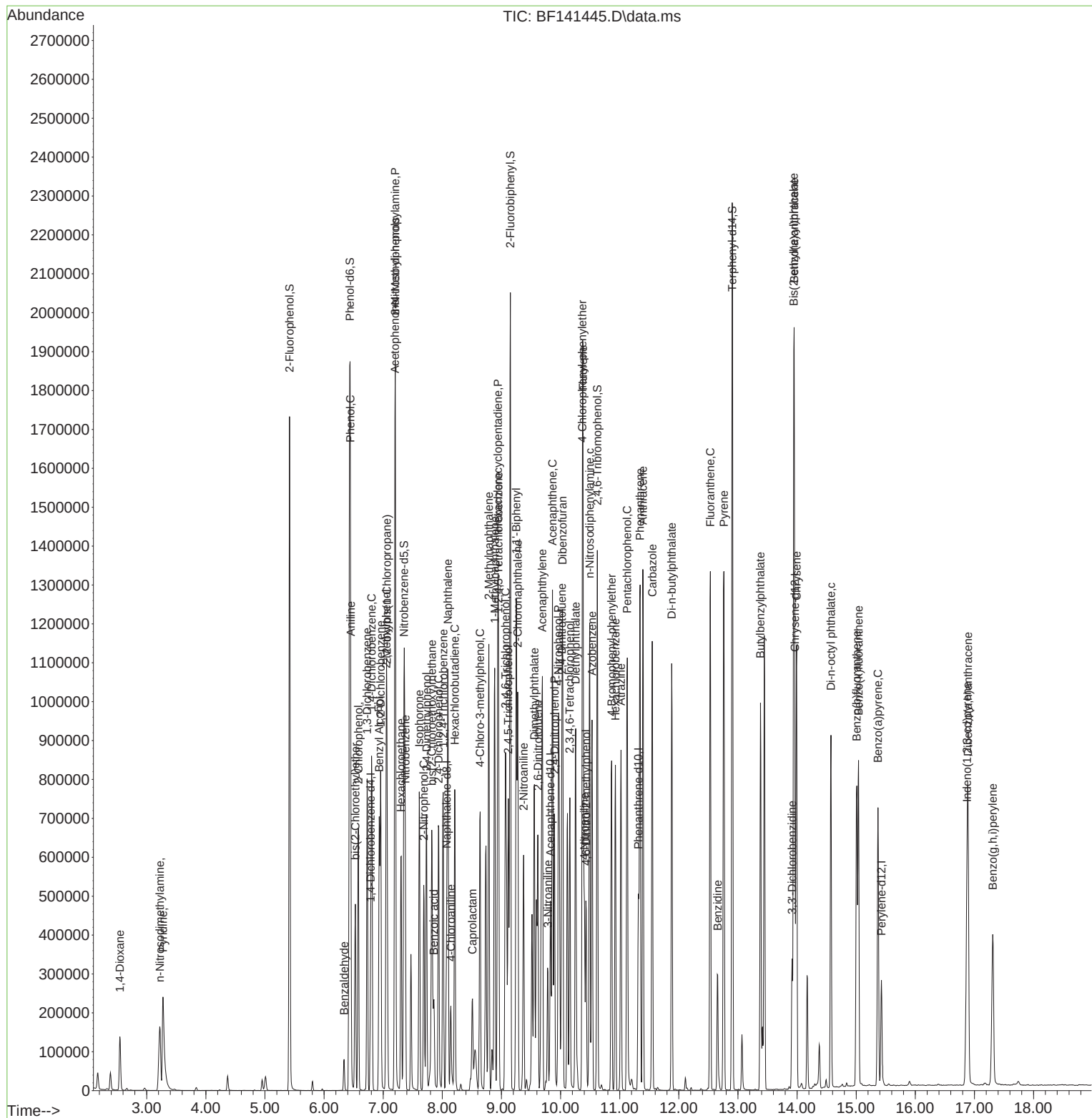
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.116	196	147177	49.828	ng	99
46) 1,1'-Biphenyl	9.251	154	544215	47.880	ng	98
47) 2-Chloronaphthalene	9.275	162	408580	46.119	ng	99
48) 2-Nitroaniline	9.375	65	144841	51.978	ng	96
49) Acenaphthylene	9.692	152	640514	51.649	ng	100
50) Dimethylphthalate	9.557	163	493851	50.171	ng	100
51) 2,6-Dinitrotoluene	9.616	165	110779	48.470	ng	96
52) Acenaphthene	9.863	154	499019m	56.325	ng	
53) 3-Nitroaniline	9.786	138	64793	28.925	ng	100
54) 2,4-Dinitrophenol	9.898	184	124538	117.220	ng	92
55) Dibenzofuran	10.033	168	587088	49.506	ng	96
56) 4-Nitrophenol	9.963	139	174985	106.813	ng	87
57) 2,4-Dinitrotoluene	10.022	165	154900	52.347	ng	93
58) Fluorene	10.380	166	466233	50.684	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.157	232	130376	56.106	ng	98
60) Diethylphthalate	10.257	149	493211	51.676	ng	98
61) 4-Chlorophenyl-phenyle...	10.369	204	225742	50.239	ng	95
62) 4-Nitroaniline	10.404	138	112592	51.125	ng	90
63) Azobenzene	10.533	77	473769	49.591	ng	97
65) 4,6-Dinitro-2-methylph...	10.433	198	89105	58.837	ng	99
66) n-Nitrosodiphenylamine	10.492	169	413491	49.932	ng	99
67) 4-Bromophenyl-phenylether	10.863	248	141597	49.399	ng	100
68) Hexachlorobenzene	10.927	284	151314	49.765	ng	99
69) Atrazine	11.022	200	147341	53.215	ng	98
70) Pentachlorophenol	11.127	266	185211	104.023	ng	100
71) Phenanthrene	11.345	178	719596	52.285	ng	99
72) Anthracene	11.392	178	741186	54.963	ng	99
73) Carbazole	11.551	167	640285	53.546	ng	99
74) Di-n-butylphthalate	11.880	149	764248	52.738	ng	99
75) Fluoranthene	12.533	202	778134	57.260	ng	97
77) Benzidine	12.657	184	169088	29.114	ng	99
78) Pyrene	12.763	202	800870	46.054	ng	100
80) Butylbenzylphthalate	13.380	149	308931	50.851	ng	99
81) Benzo(a)anthracene	13.951	228	602014	48.156	ng	99
82) 3,3'-Dichlorobenzidine	13.916	252	96189	24.192	ng	97
83) Chrysene	13.992	228	584203	50.991	ng	99
84) Bis(2-ethylhexyl)phtha...	13.945	149	392941	50.987	ng	99
85) Di-n-octyl phthalate	14.574	149	595439	49.744	ng	99
87) Indeno(1,2,3-cd)pyrene	16.874	276	490962	50.047	ng	95
88) Benzo(b)fluoranthene	15.010	252	487801	51.021	ng	98
89) Benzo(k)fluoranthene	15.039	252	464002	54.783	ng	98
90) Benzo(a)pyrene	15.368	252	439777	54.432	ng	98
91) Dibenzo(a,h)anthracene	16.892	278	395116	50.062	ng	97
92) Benzo(g,h,i)perylene	17.309	276	365041	44.481	ng #	94

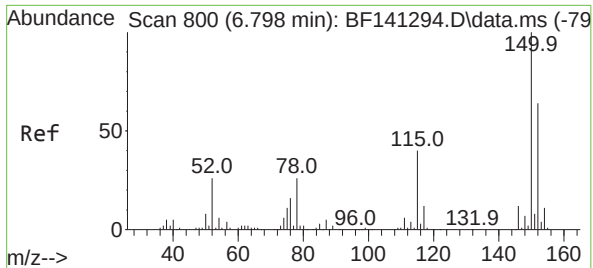
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_F
ClientSampleId :
PB166354BS

Manual Integrations

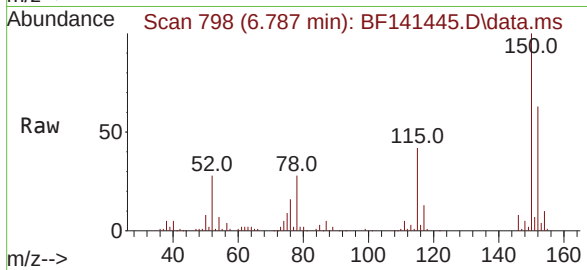
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.787 min Scan# 74
Delta R.T. -0.017 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

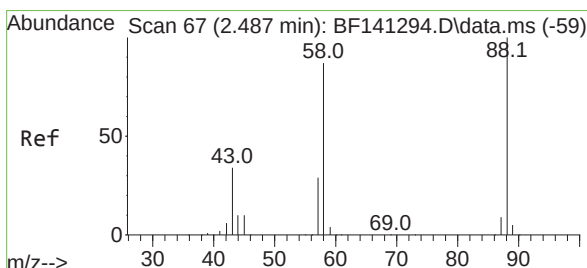
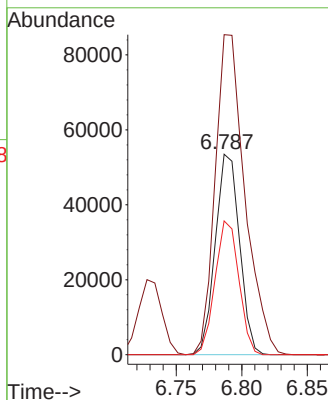
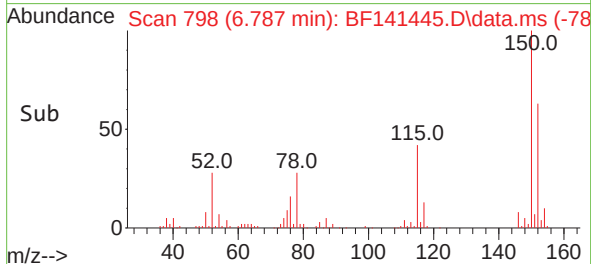
Instrument :
BNA_F
ClientSampleId :
PB166354BS



Tgt Ion:152 Resp: 68620
Ion Ratio Lower Upper
152 100
150 159.6 125.9 188.9
115 66.7 49.7 74.5

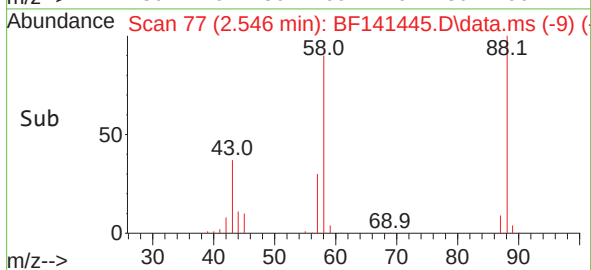
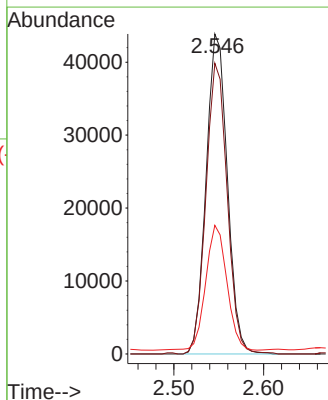
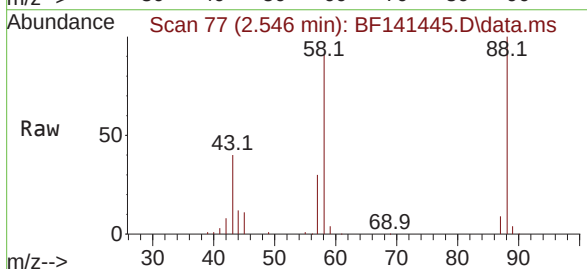
Manual Integrations
APPROVED

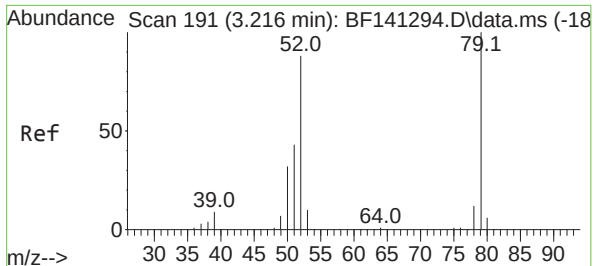
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#2
1,4-Dioxane
Concen: 36.717 ng
RT: 2.546 min Scan# 77
Delta R.T. 0.053 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

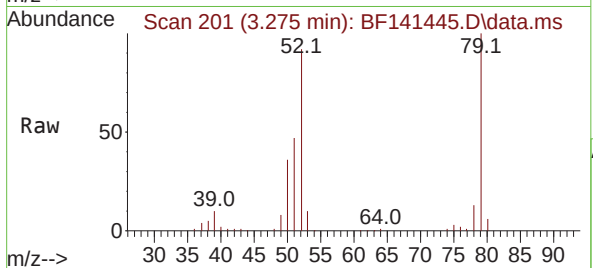
Tgt Ion: 88 Resp: 72184
Ion Ratio Lower Upper
88 100
58 90.9 70.2 105.4
43 39.1 27.6 41.4





#3
Pyridine
Concen: 38.573 ng
RT: 3.275 min Scan# 201
Delta R.T. 0.047 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

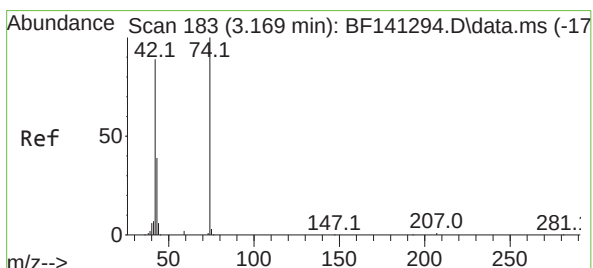
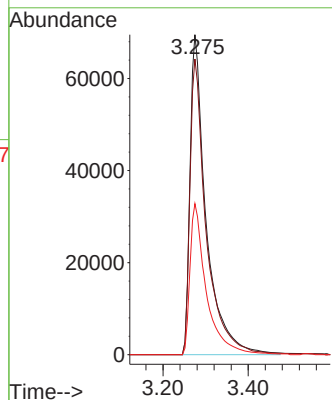
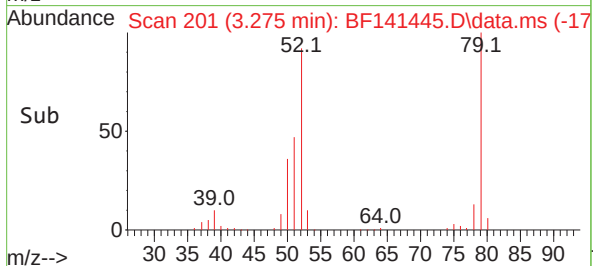
Instrument :
BNA_F
ClientSampleId :
PB166354BS



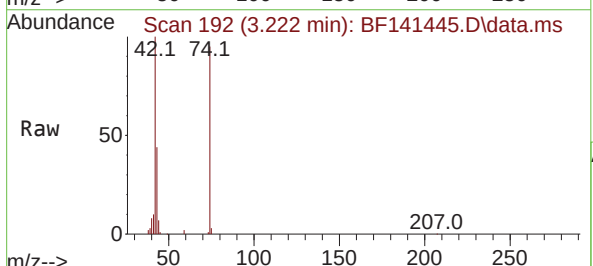
Tgt Ion: 79 Resp: 18271
Ion Ratio Lower Upper
79 100
52 92.4 70.3 105.5
51 47.2 34.3 51.5

Manual Integrations
APPROVED

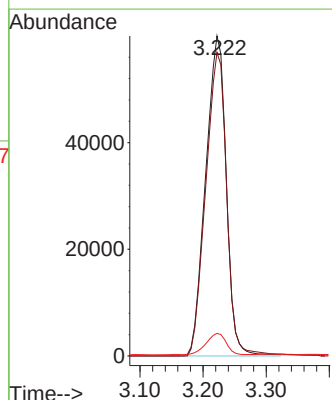
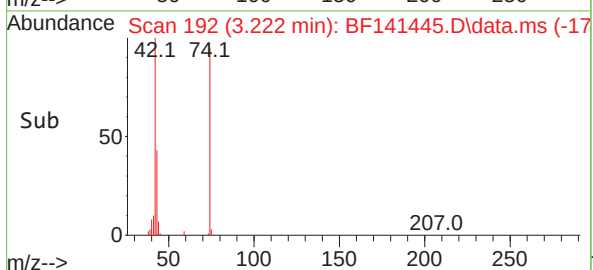
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

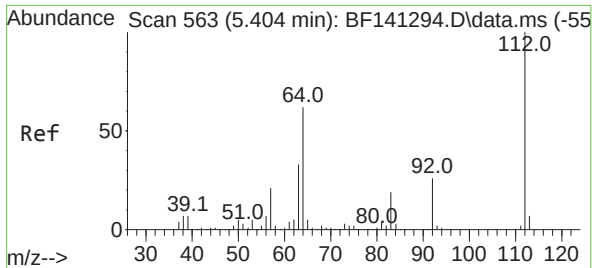


#4
n-Nitrosodimethylamine
Concen: 50.232 ng
RT: 3.222 min Scan# 192
Delta R.T. 0.023 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24



Tgt Ion: 42 Resp: 135924
Ion Ratio Lower Upper
42 100
74 94.9 90.3 135.5
44 7.0 5.7 8.5





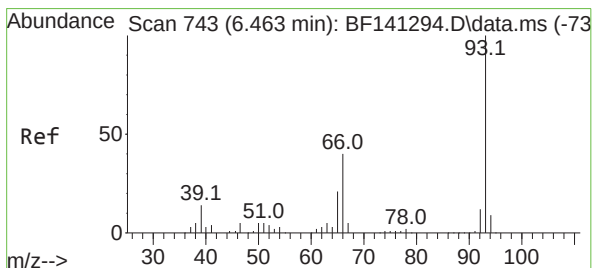
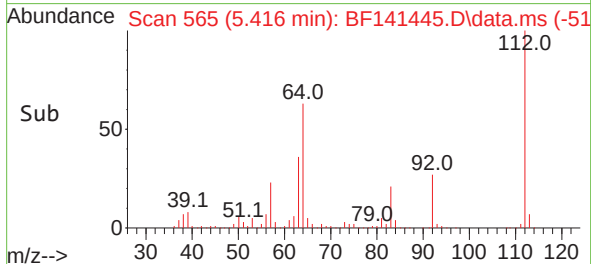
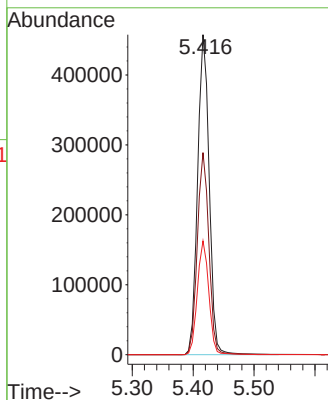
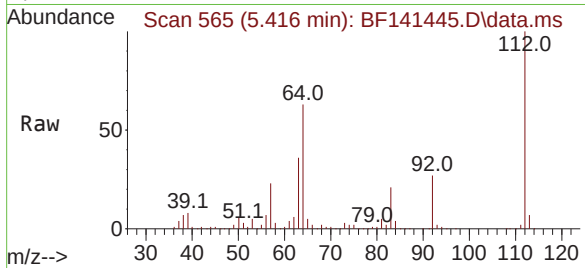
#5
2-Fluorophenol
Concen: 134.903 ng
RT: 5.416 min Scan# 501
Delta R.T. 0.006 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

Instrument :
BNA_F
ClientSampleId :
PB166354BS

Tgt Ion:112 Resp: 60303
Ion Ratio Lower Upper
112 100
64 63.2 49.8 74.8
63 35.6 26.1 39.1

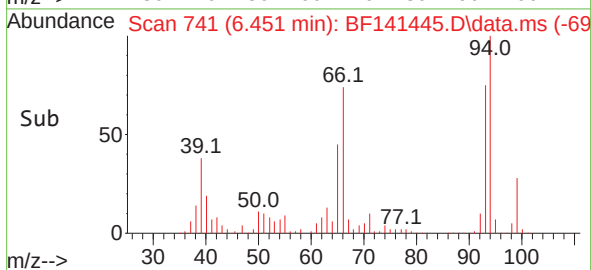
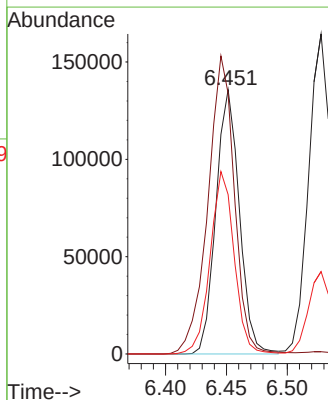
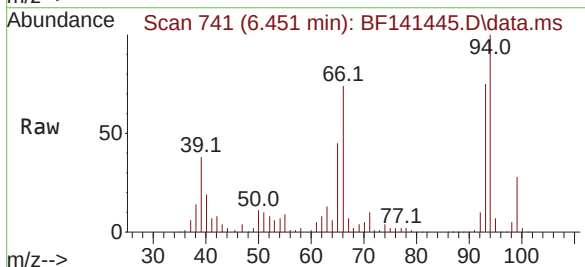
Manual Integrations
APPROVED

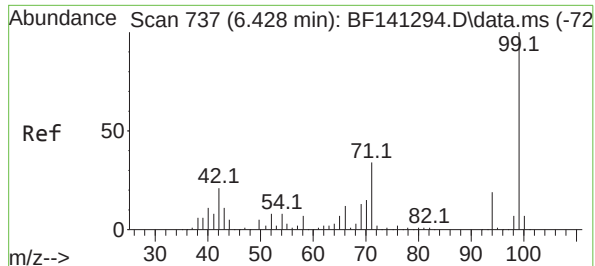
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#6
Aniline
Concen: 37.786 ng
RT: 6.451 min Scan# 741
Delta R.T. -0.018 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

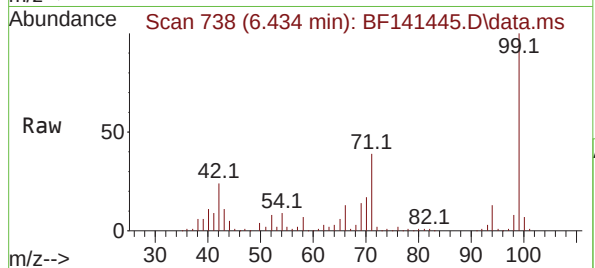
Tgt Ion: 93 Resp: 181890
Ion Ratio Lower Upper
93 100
66 98.6 32.5 48.7#
65 60.3 17.0 25.6#





#7
Phenol-d6
Concen: 128.105 ng
RT: 6.434 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

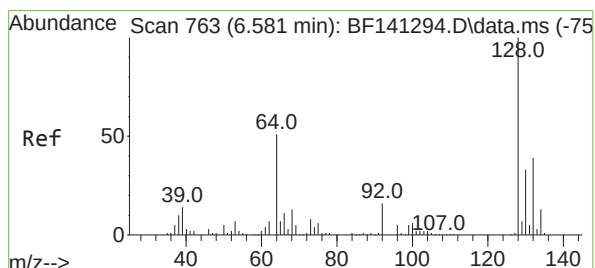
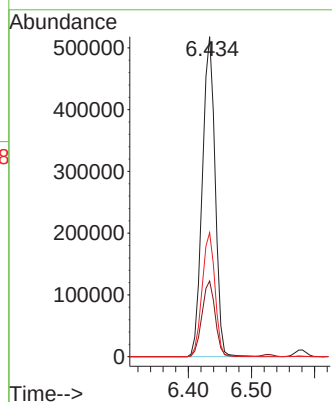
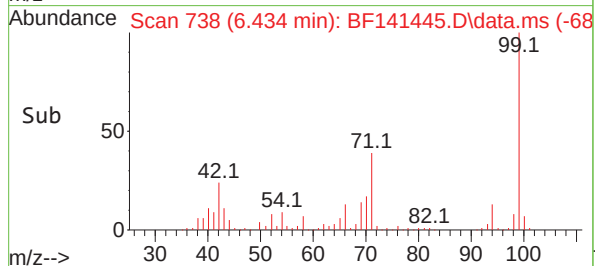
Instrument :
BNA_F
ClientSampleId :
PB166354BS



Tgt Ion: 99 Resp: 72848
Ion Ratio Lower Upper
99 100
42 23.7 17.1 25.7
71 38.7 26.9 40.3

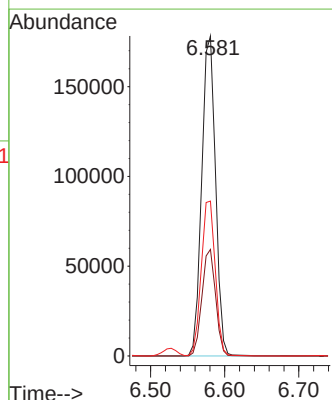
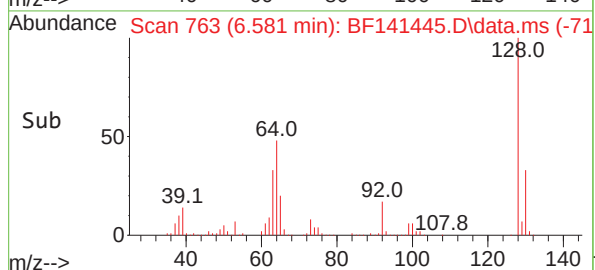
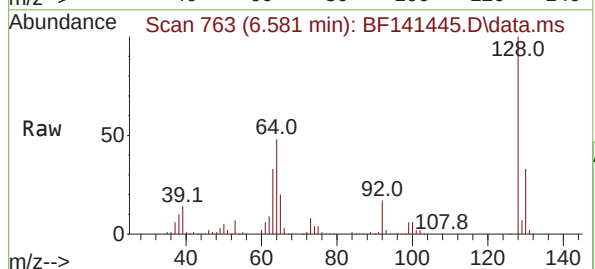
Manual Integrations
APPROVED

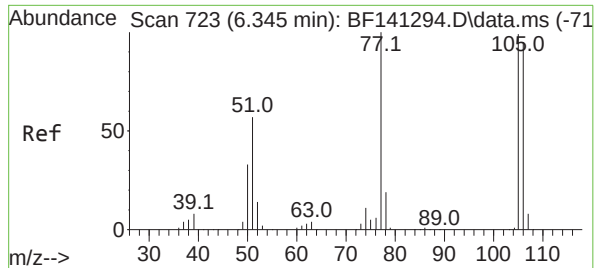
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#8
2-Chlorophenol
Concen: 48.107 ng
RT: 6.581 min Scan# 763
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

Tgt Ion:128 Resp: 230490
Ion Ratio Lower Upper
128 100
130 33.3 12.5 52.5
64 48.4 32.9 72.9





#9

Benzaldehyde

Concen: 6.482 ng

RT: 6.340 min Scan# 71

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion: 77 Resp: 2135

Ion Ratio Lower Upper

77 100

105 97.6 79.4 119.4

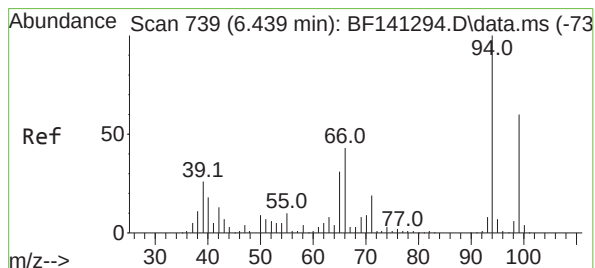
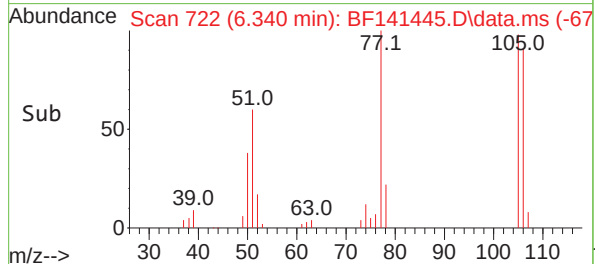
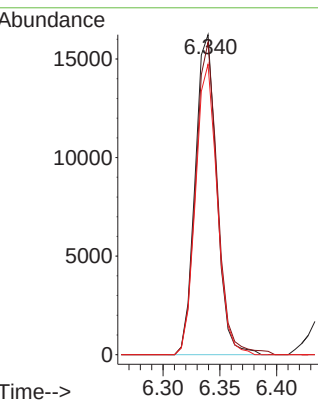
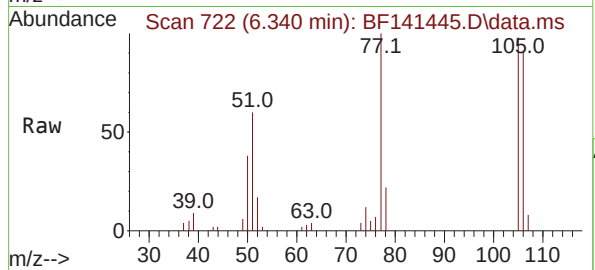
106 90.7 74.6 114.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#10

Phenol

Concen: 45.374 ng

RT: 6.445 min Scan# 740

Delta R.T. -0.006 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

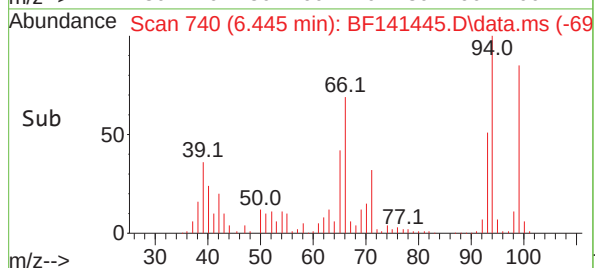
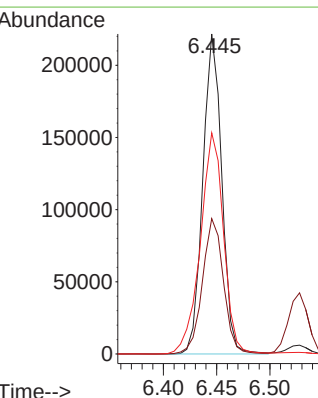
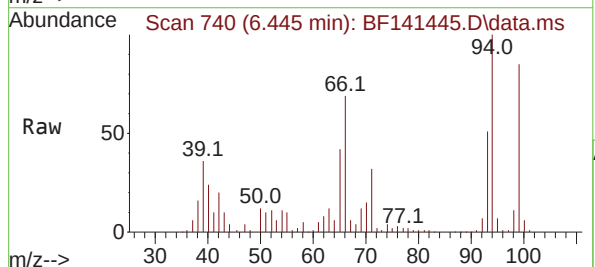
Tgt Ion: 94 Resp: 273520

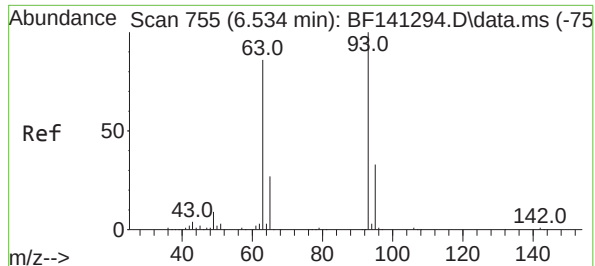
Ion Ratio Lower Upper

94 100

65 42.3 10.8 50.8

66 69.1 23.3 63.3#





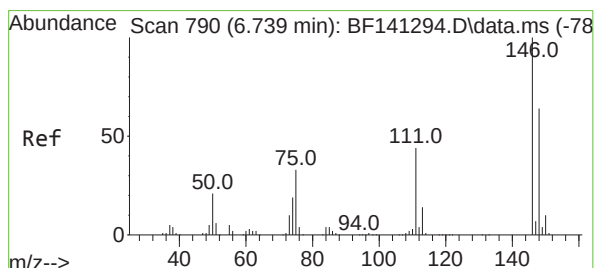
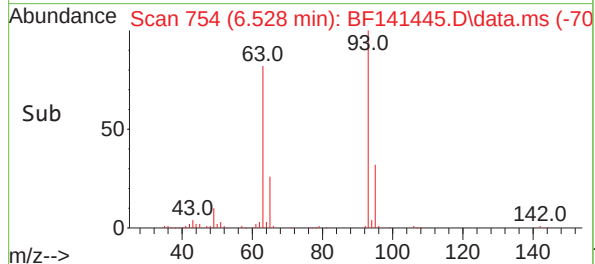
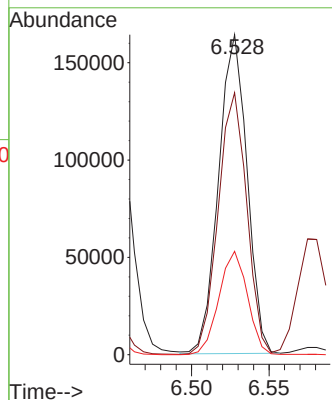
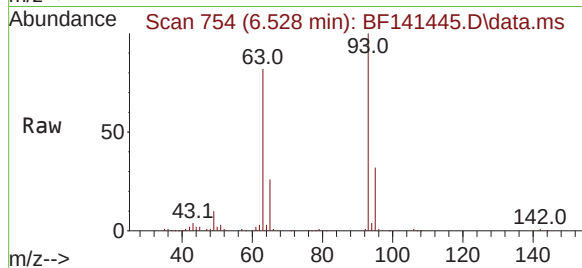
#11
bis(2-Chloroethyl)ether
Concen: 45.306 ng
RT: 6.528 min Scan# 754
Delta R.T. -0.018 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

Instrument :
BNA_F
ClientSampleId :
PB166354BS

Tgt Ion: 93 Resp: 209400
Ion Ratio Lower Upper
93 100
63 81.9 65.0 105.0
95 32.3 12.4 52.4

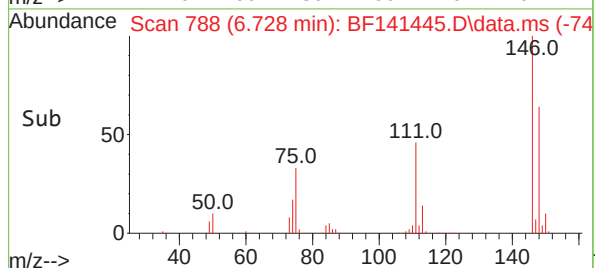
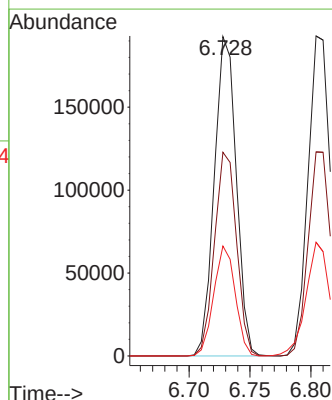
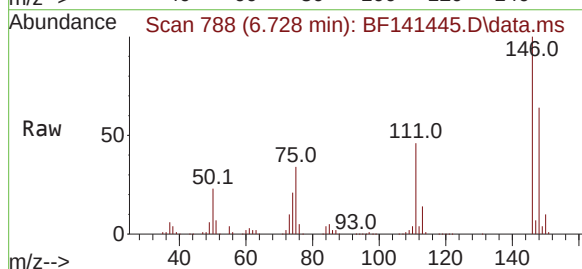
Manual Integrations
APPROVED

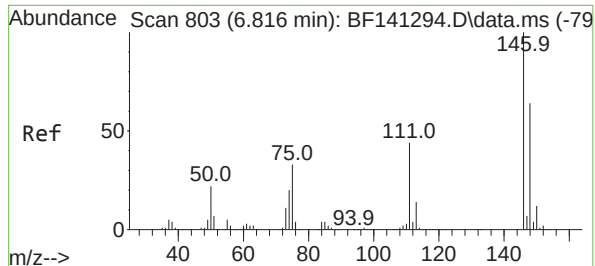
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#12
1,3-Dichlorobenzene
Concen: 45.800 ng
RT: 6.728 min Scan# 788
Delta R.T. -0.018 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

Tgt Ion:146 Resp: 241954
Ion Ratio Lower Upper
146 100
148 63.8 51.2 76.8
75 34.4 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 46.733 ng

RT: 6.804 min Scan# 803

Delta R.T. -0.018 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion:146 Resp: 248010

Ion Ratio Lower Upper

146 100

148 63.8 51.2 76.8

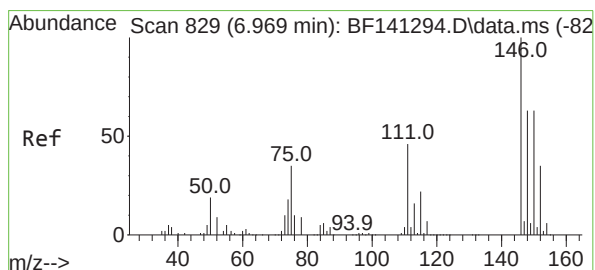
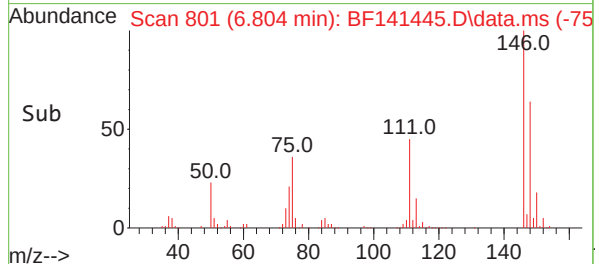
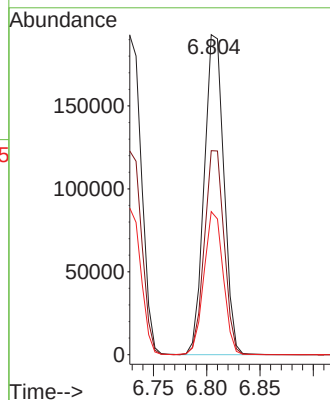
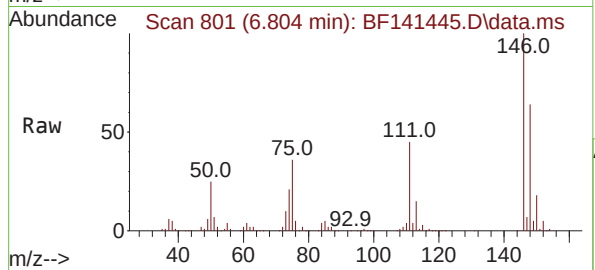
111 44.7 35.0 52.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#14

1,2-Dichlorobenzene

Concen: 47.373 ng

RT: 6.957 min Scan# 827

Delta R.T. -0.018 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

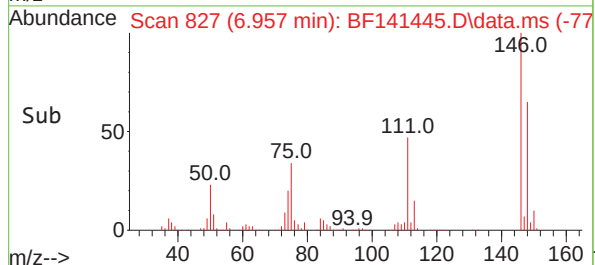
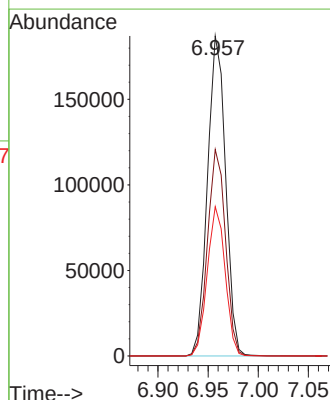
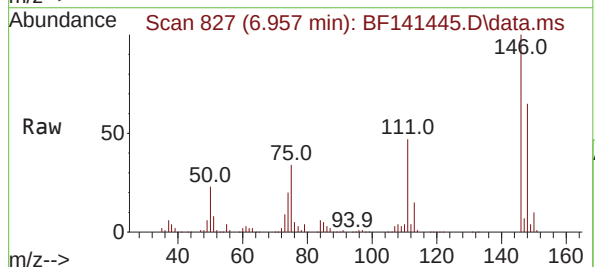
Tgt Ion:146 Resp: 235419

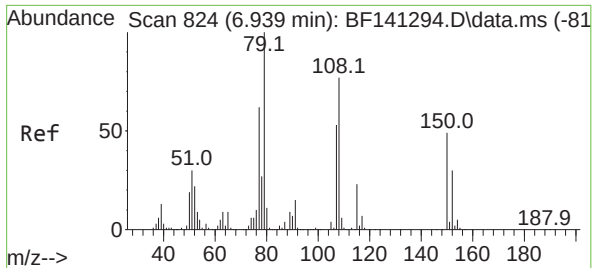
Ion Ratio Lower Upper

146 100

148 64.5 50.5 75.7

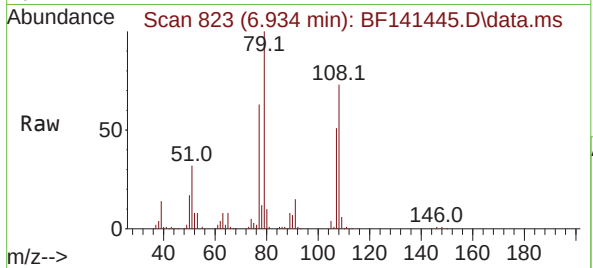
111 46.6 36.6 55.0





#15
Benzyl Alcohol
Concen: 52.271 ng
RT: 6.934 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

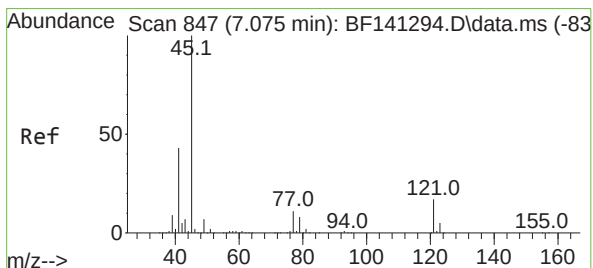
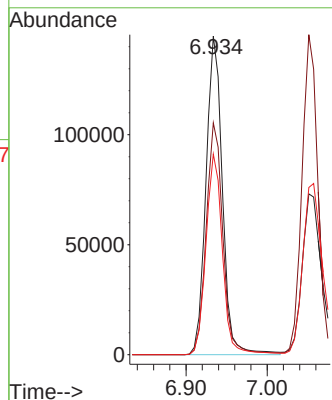
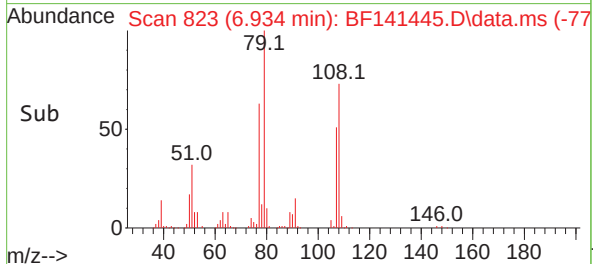
Instrument :
BNA_F
ClientSampleId :
PB166354BS



Tgt Ion: 79 Resp: 20313
Ion Ratio Lower Upper
79 100
108 72.8 61.4 92.0
77 63.0 49.9 74.9

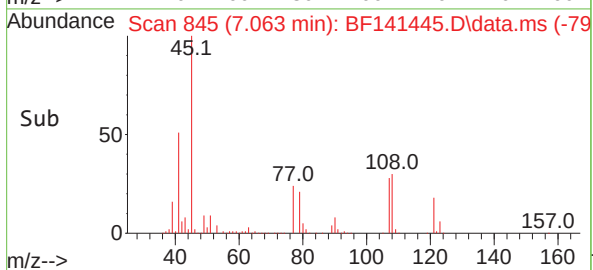
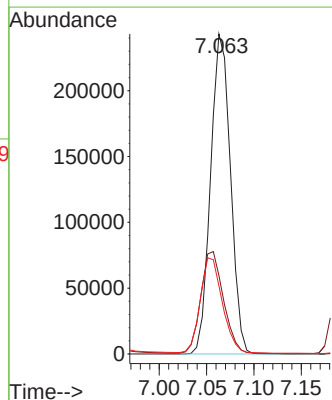
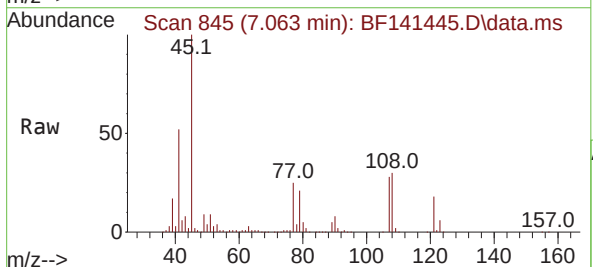
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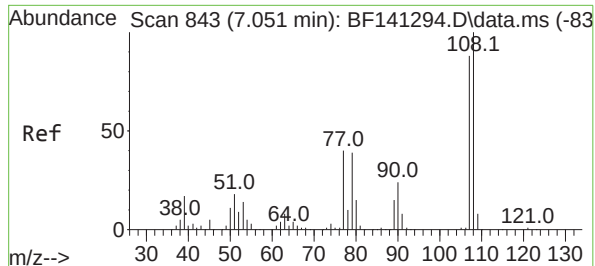
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#16
2,2'-oxybis(1-Chloropropane)
Concen: 44.105 ng
RT: 7.063 min Scan# 845
Delta R.T. -0.018 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

Tgt Ion: 45 Resp: 354485
Ion Ratio Lower Upper
45 100
77 24.5 0.0 31.8
79 21.3 0.0 29.1





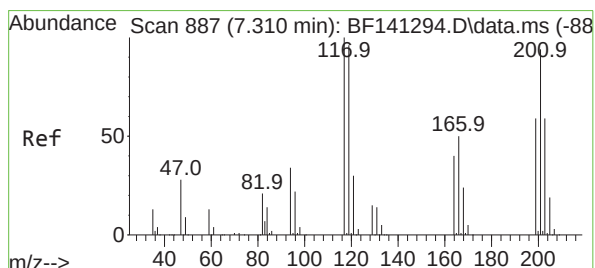
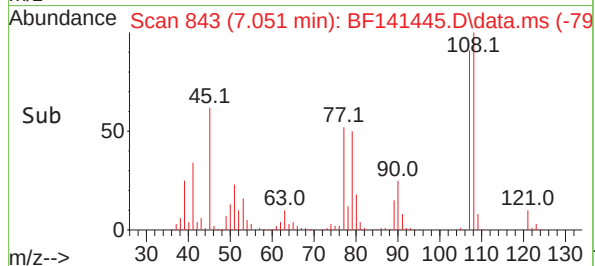
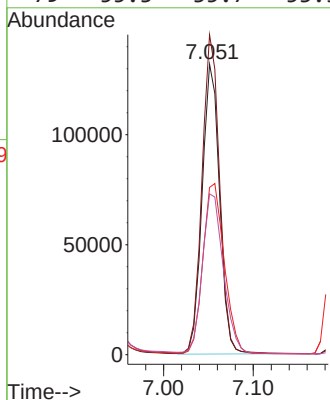
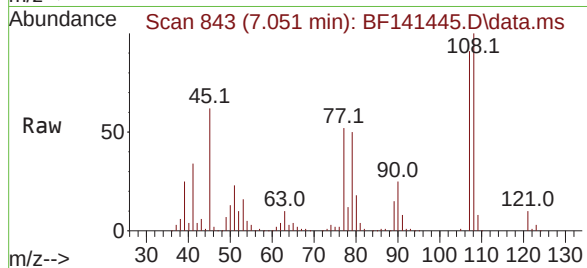
#17
2-Methylphenol
Concen: 45.782 ng
RT: 7.051 min Scan# 843
Delta R.T. -0.006 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

Instrument :
BNA_F
ClientSampleId :
PB166354BS

Tgt Ion:107 Resp: 17827
Ion Ratio Lower Upper
107 100
108 110.1 90.8 136.2
77 57.5 36.2 54.4
79 55.3 35.7 53.5#

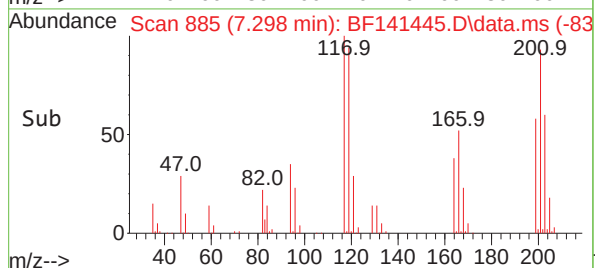
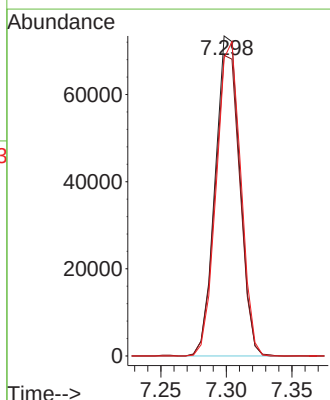
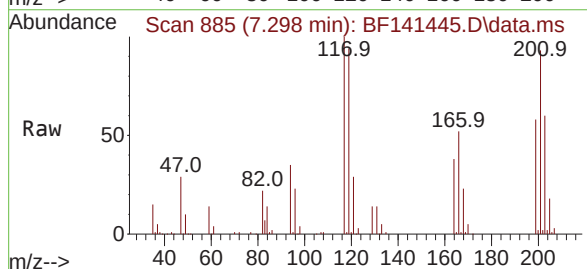
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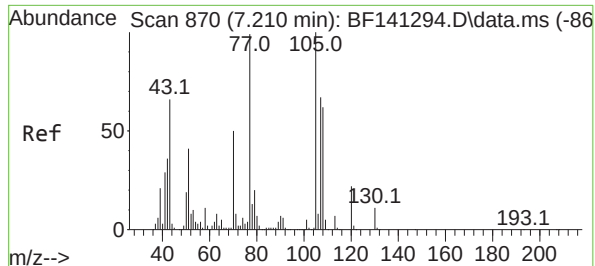
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#18
Hexachloroethane
Concen: 48.932 ng
RT: 7.298 min Scan# 885
Delta R.T. -0.018 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

Tgt Ion:117 Resp: 95800
Ion Ratio Lower Upper
117 100
119 94.0 76.6 114.8
201 93.0 74.8 112.2





#19

n-Nitroso-di-n-propylamine

Concen: 47.656 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.024 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion: 70 Resp: 161029

Ion Ratio Lower Upper

70 100

42 72.4 56.8 85.2

101 9.9 7.7 11.5

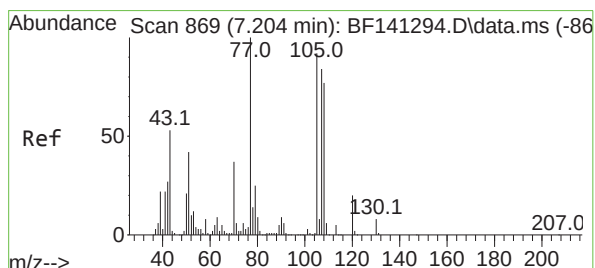
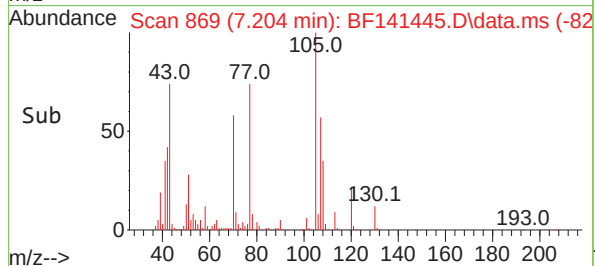
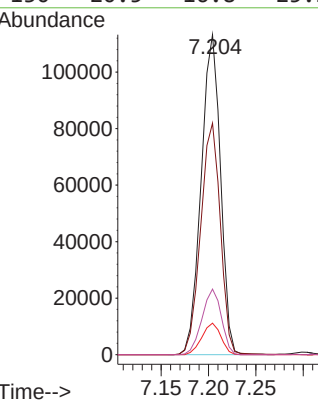
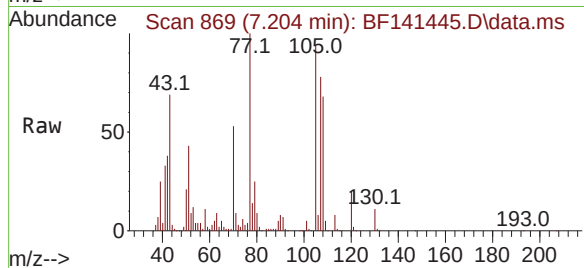
130 20.5 16.8 25.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#20

3+4-Methylphenols

Concen: 48.232 ng

RT: 7.204 min Scan# 869

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Tgt Ion:107 Resp: 230609

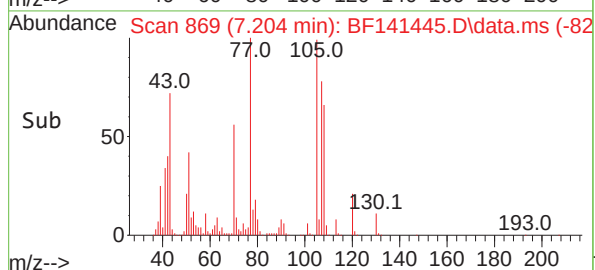
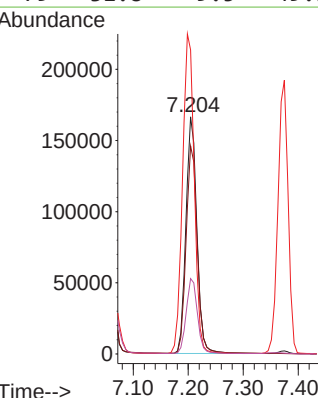
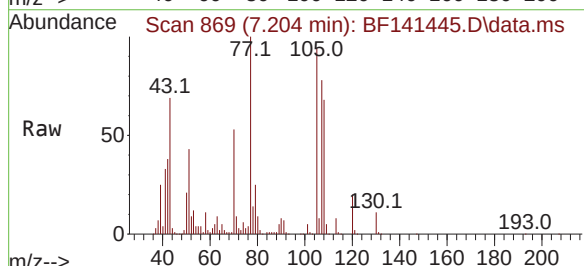
Ion Ratio Lower Upper

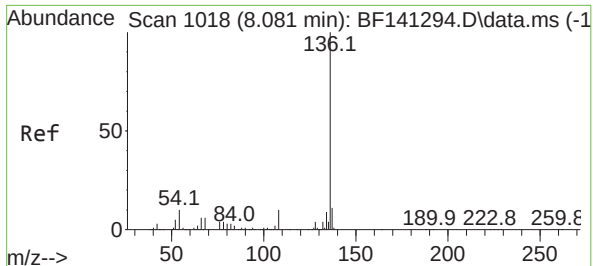
107 100

108 87.7 70.9 110.9

77 128.2 98.5 138.5

79 31.8 9.5 49.5





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.075 min Scan# 1018

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion:136 Resp: 266960

Ion Ratio Lower Upper

136 100

137 10.9 8.6 13.0

54 8.9 7.8 11.8

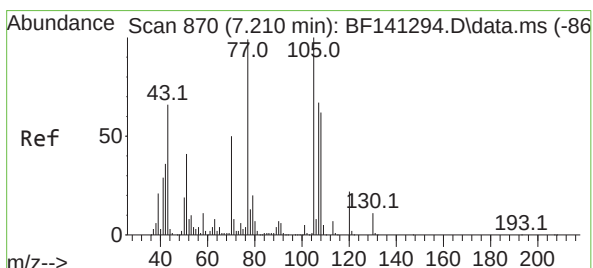
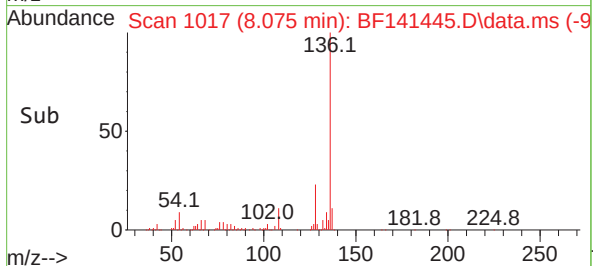
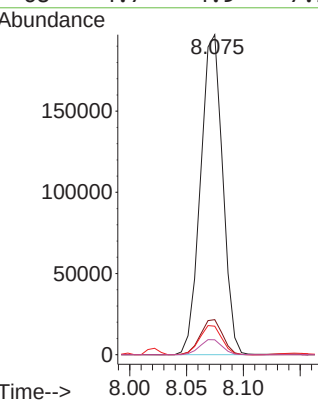
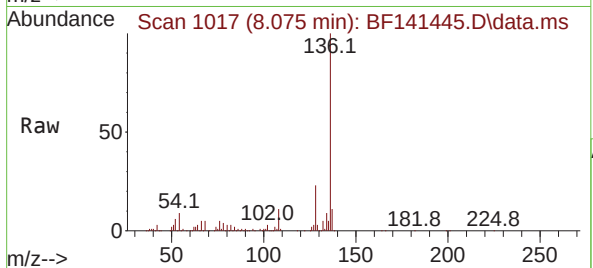
68 4.7 4.9 7.3#

Manual Integrations

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Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#22

Acetophenone

Concen: 50.273 ng

RT: 7.198 min Scan# 868

Delta R.T. -0.018 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Tgt Ion:105 Resp: 319022

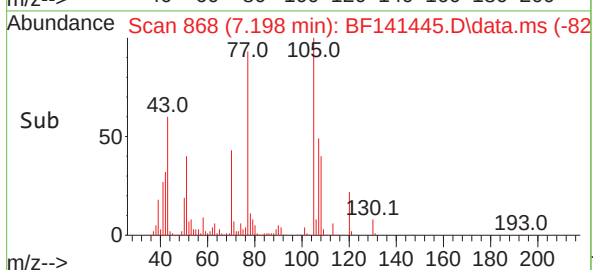
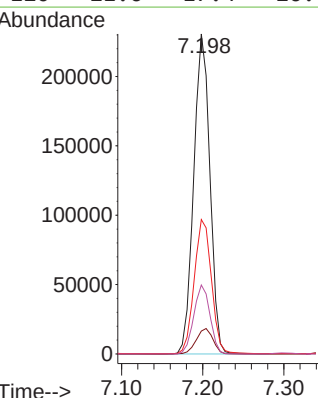
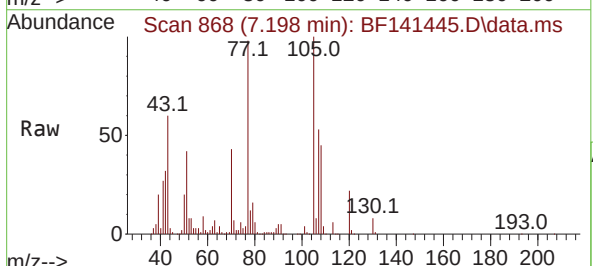
Ion Ratio Lower Upper

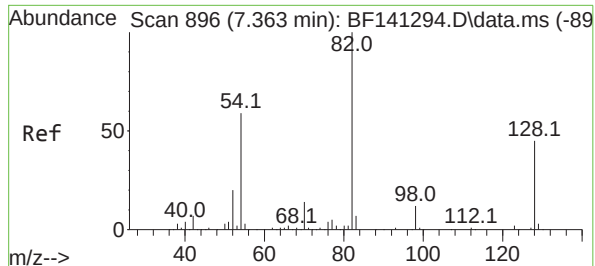
105 100

71 7.1 6.8 10.2

51 42.0 32.6 49.0

120 21.6 17.4 26.0





#23

Nitrobenzene-d5

Concen: 96.890 ng

RT: 7.351 min Scan# 894

Delta R.T. -0.018 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion: 82 Resp: 49066

Ion Ratio Lower Upper

82 100

128 42.5 35.7 53.5

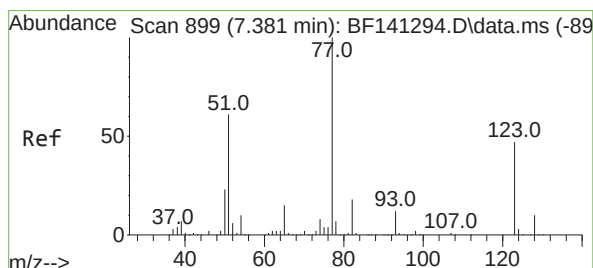
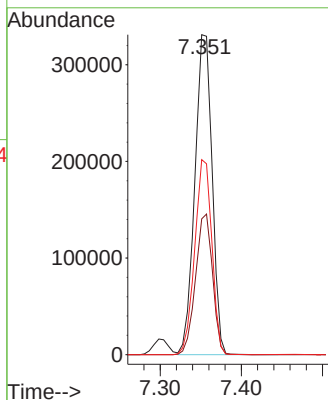
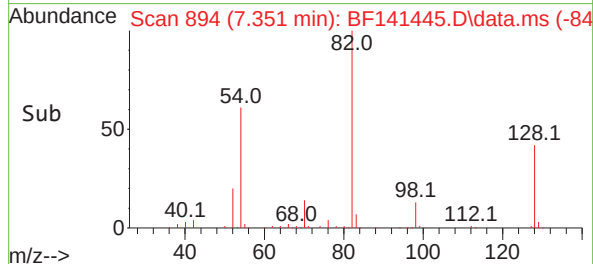
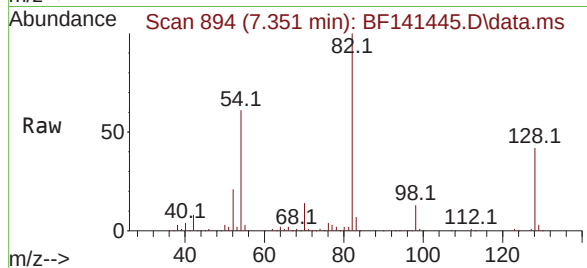
54 60.9 47.1 70.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#24

Nitrobenzene

Concen: 46.985 ng

RT: 7.375 min Scan# 898

Delta R.T. -0.018 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

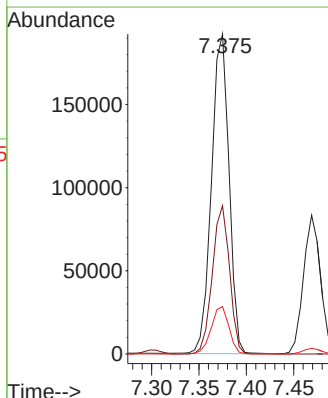
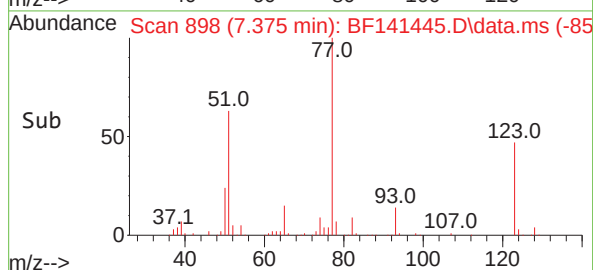
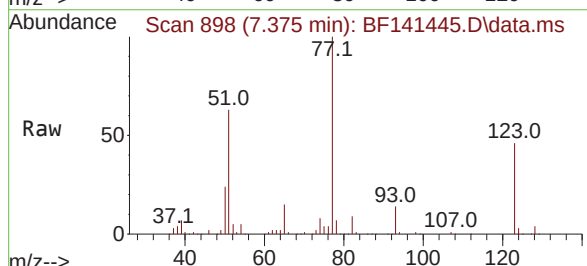
Tgt Ion: 77 Resp: 246578

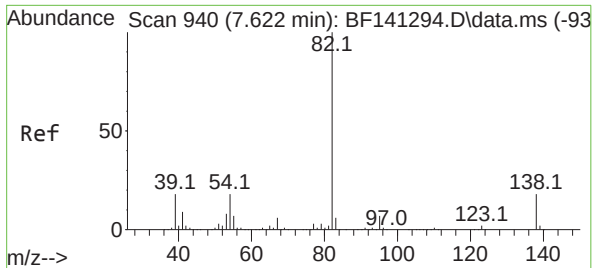
Ion Ratio Lower Upper

77 100

123 46.4 37.3 55.9

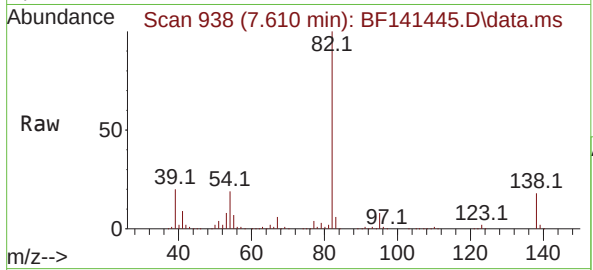
65 14.8 11.8 17.6





#25
Isophorone
Concen: 48.476 ng
RT: 7.610 min Scan# 910
Delta R.T. -0.018 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

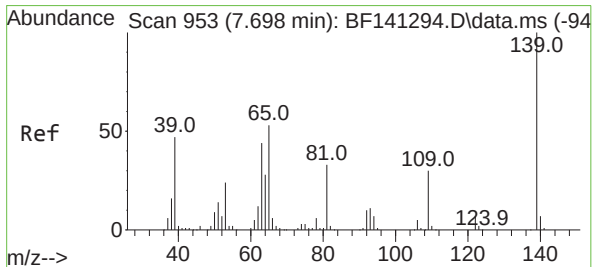
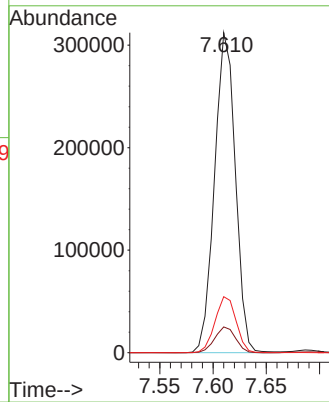
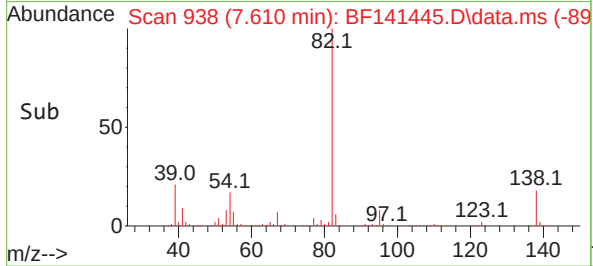
Instrument :
BNA_F
Client SampleId :
PB166354BS



Tgt Ion: 82 Resp: 42435
Ion Ratio Lower Upper
82 100
95 8.0 5.8 8.6
138 17.5 14.7 22.1

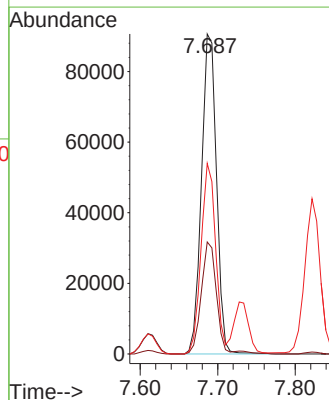
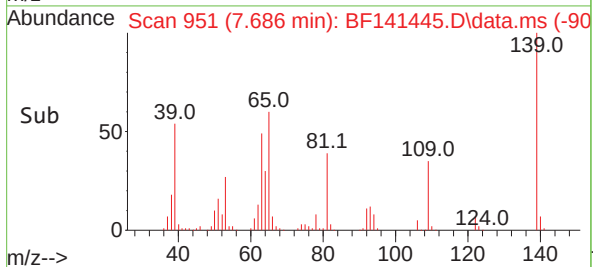
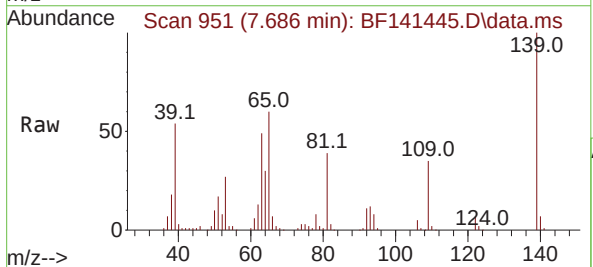
Manual Integrations
APPROVED

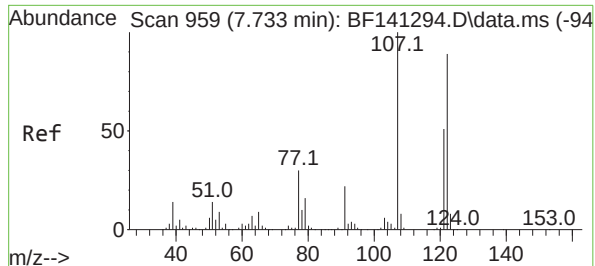
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#26
2-Nitrophenol
Concen: 49.285 ng
RT: 7.686 min Scan# 951
Delta R.T. -0.018 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

Tgt Ion:139 Resp: 121983
Ion Ratio Lower Upper
139 100
109 35.0 23.8 35.6
65 59.6 42.2 63.4





#27

2,4-Dimethylphenol

Concen: 56.696 ng m

RT: 7.734 min Scan# 91

Delta R.T. -0.006 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion:122 Resp: 17861

Ion Ratio Lower Upper

122 100

107 119.9 89.9 134.9

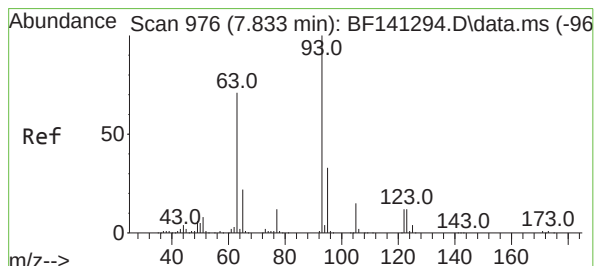
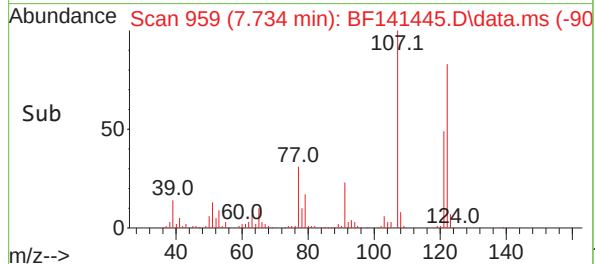
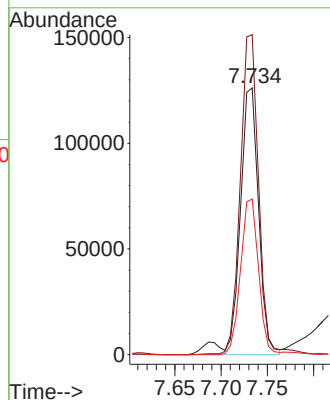
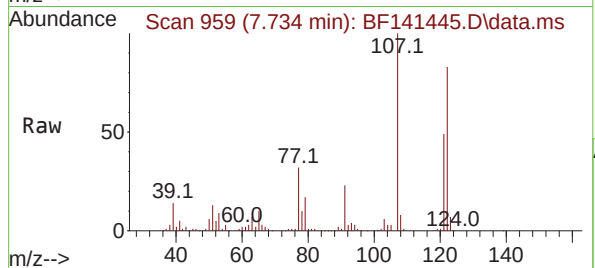
121 58.3 46.1 69.1

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#28

bis(2-Chloroethoxy)methane

Concen: 46.055 ng

RT: 7.822 min Scan# 974

Delta R.T. -0.018 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

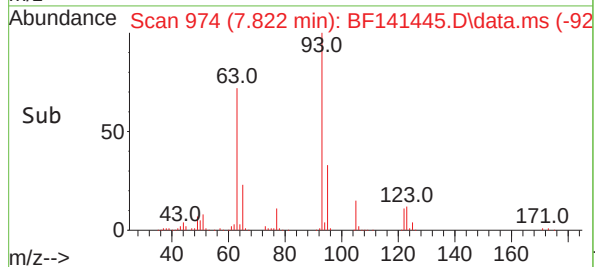
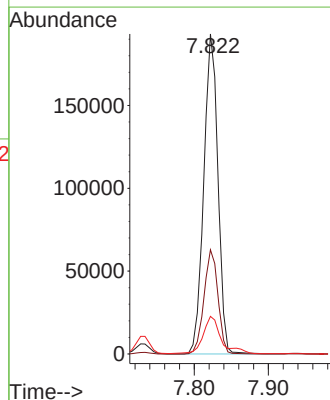
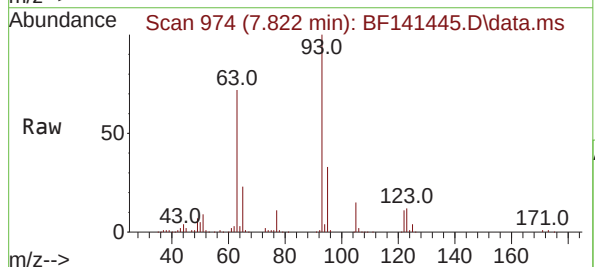
Tgt Ion: 93 Resp: 257162

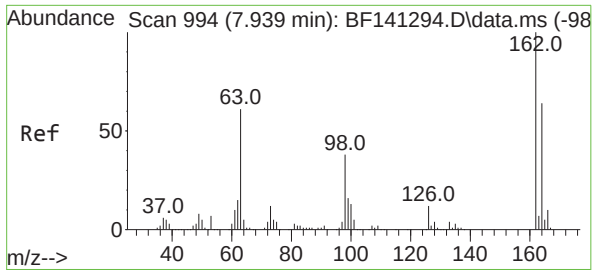
Ion Ratio Lower Upper

93 100

95 32.5 26.2 39.2

123 11.7 10.2 15.4





#29

2,4-Dichlorophenol

Concen: 48.743 ng

RT: 7.939 min Scan# 994

Delta R.T. -0.006 min

Lab File: BF141445.D

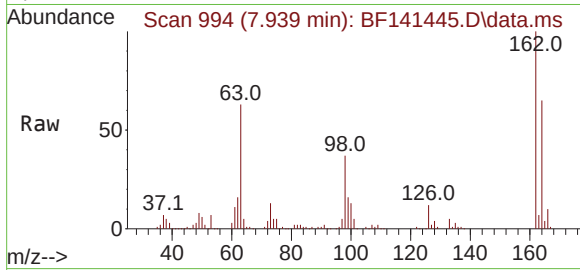
Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS



Tgt Ion:162 Resp: 18798

Ion Ratio Lower Upper

162 100

164 64.6 44.2 84.2

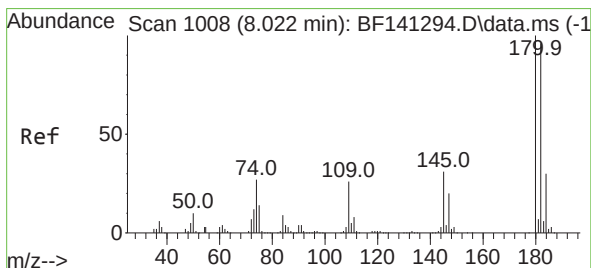
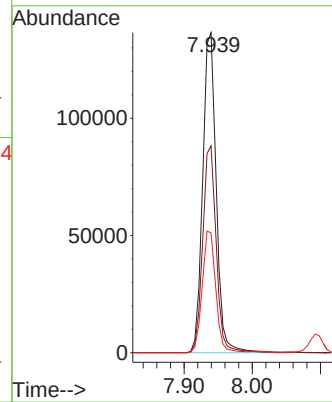
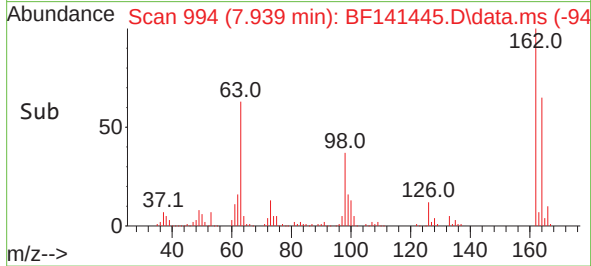
98 37.5 18.2 58.2

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#30

1,2,4-Trichlorobenzene

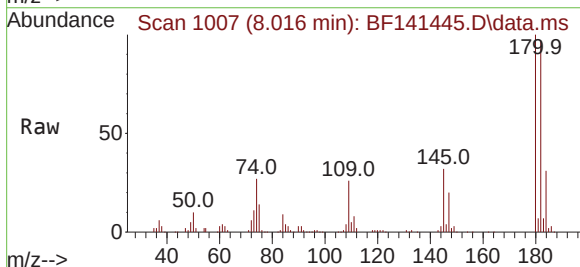
Concen: 46.593 ng

RT: 8.016 min Scan# 1007

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24



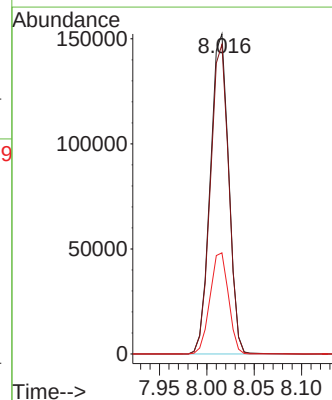
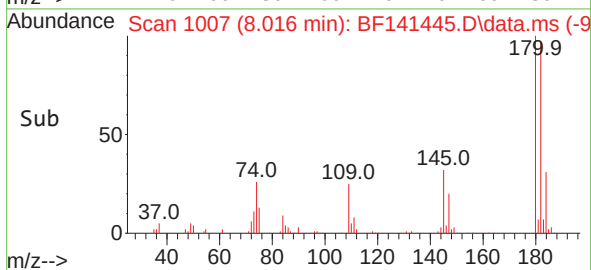
Tgt Ion:180 Resp: 205216

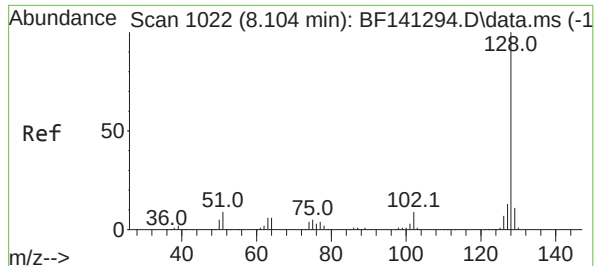
Ion Ratio Lower Upper

180 100

182 96.7 76.4 114.6

145 31.6 24.9 37.3





#31

Naphthalene

Concen: 47.610 ng

RT: 8.092 min Scan# 10

Delta R.T. -0.018 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion:128 Resp: 67144

Ion Ratio Lower Upper

128 100

129 11.0 8.9 13.3

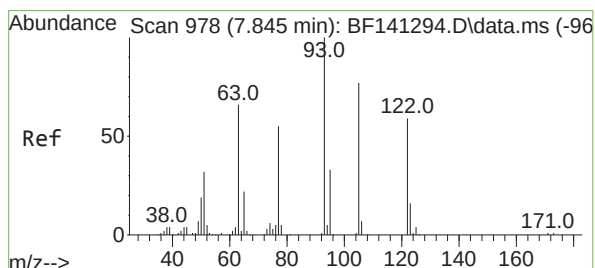
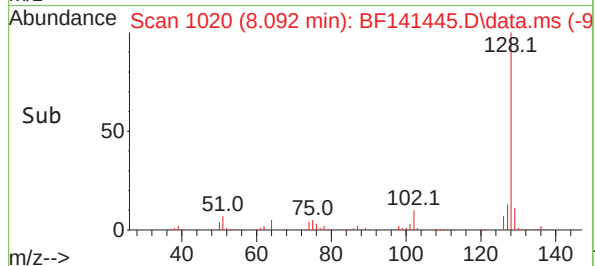
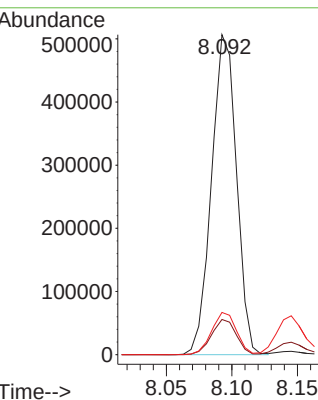
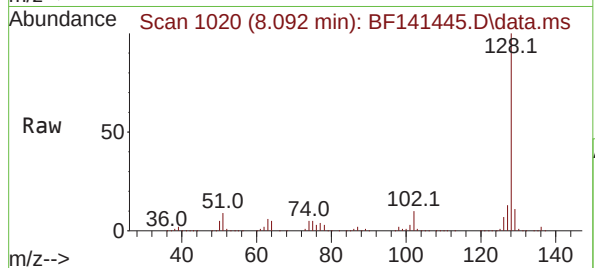
127 13.2 10.6 15.8

Manual Integrations

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Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#32

Benzoic acid

Concen: 47.228 ng

RT: 7.857 min Scan# 980

Delta R.T. -0.024 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

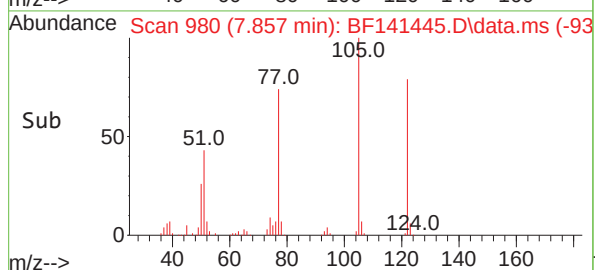
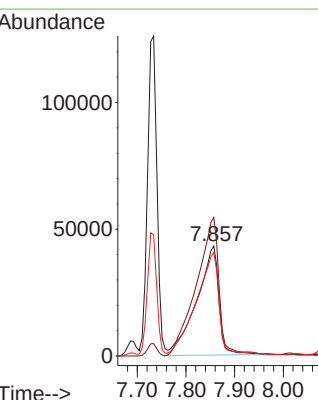
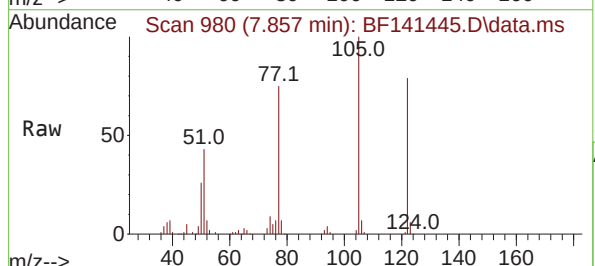
Tgt Ion:122 Resp: 136775

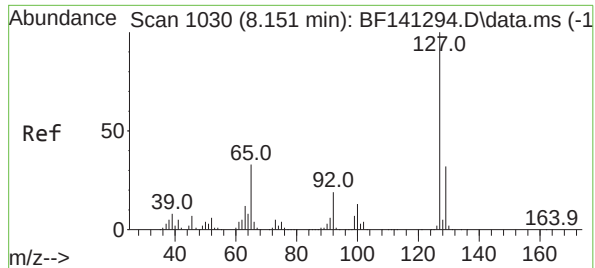
Ion Ratio Lower Upper

122 100

105 126.1 103.4 143.4

77 94.1 70.9 110.9





#33

4-Chloroaniline

Concen: 20.569 ng

RT: 8.145 min Scan# 1029

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion:127 Resp: 98370

Ion Ratio Lower Upper

127 100

129 32.3 25.7 38.5

65 31.8 26.4 39.6

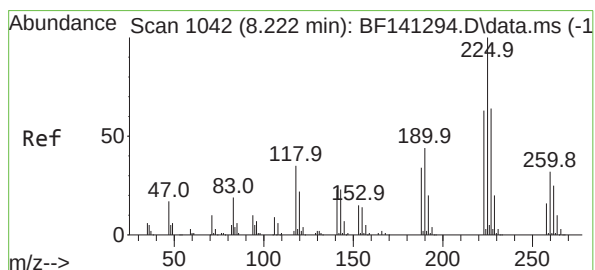
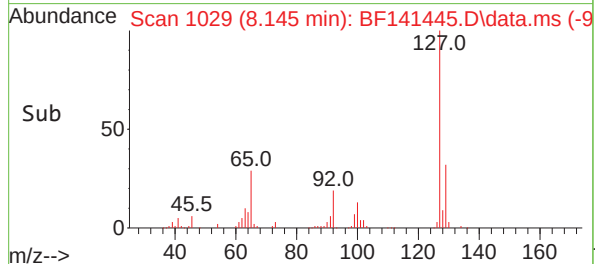
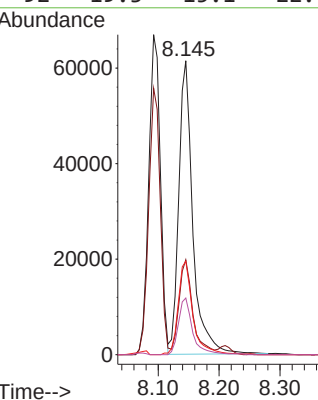
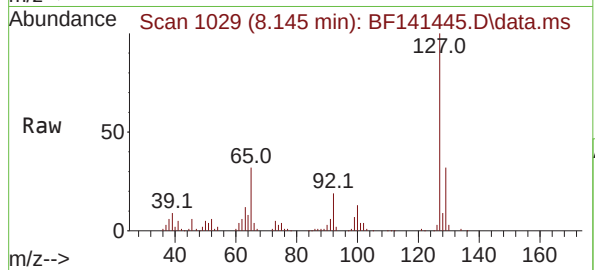
92 19.3 15.1 22.7

Manual Integrations

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Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#34

Hexachlorobutadiene

Concen: 49.691 ng

RT: 8.210 min Scan# 1040

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

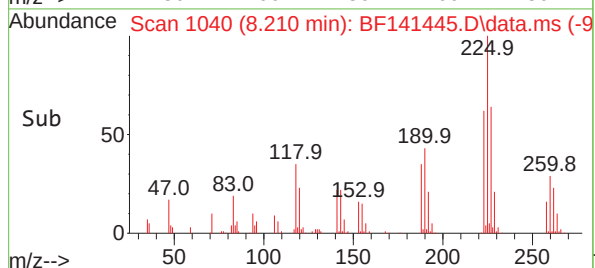
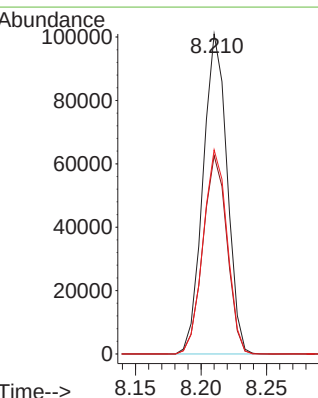
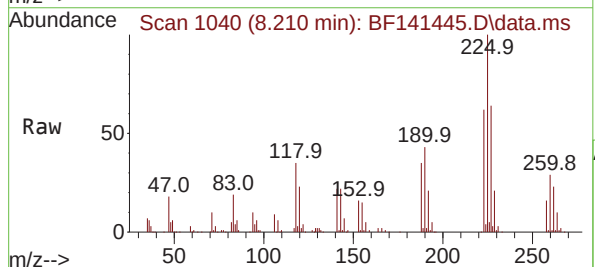
Tgt Ion:225 Resp: 128349

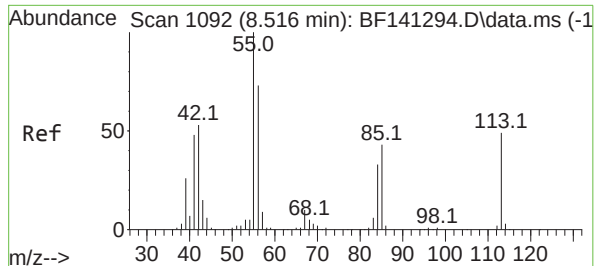
Ion Ratio Lower Upper

225 100

223 62.0 50.4 75.6

227 63.8 51.3 76.9





#35

Caprolactam

Concen: 46.819 ng m

RT: 8.510 min Scan# 1092

Delta R.T. -0.035 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion:113 Resp: 5897

Ion Ratio Lower Upper

113 100

55 199.7 182.9 222.9

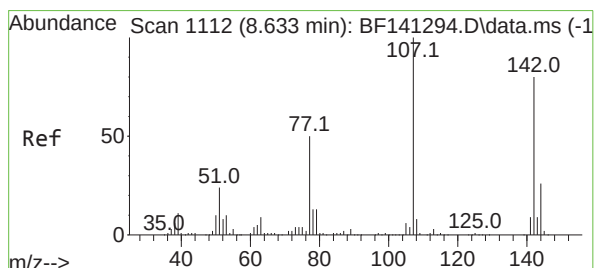
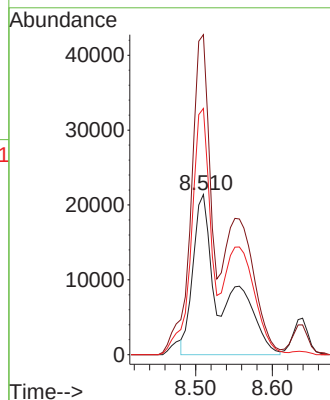
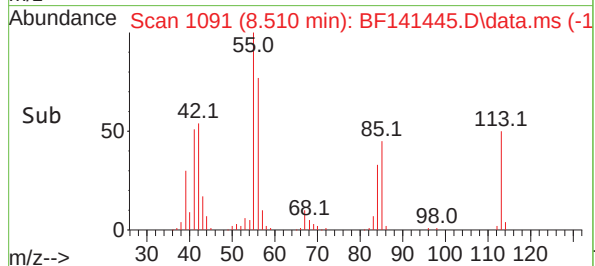
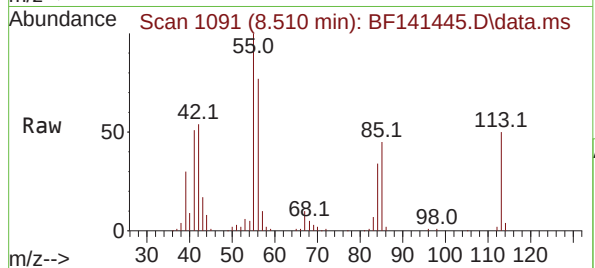
56 153.6 127.9 167.9

Manual Integrations

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#36

4-Chloro-3-methylphenol

Concen: 51.138 ng

RT: 8.639 min Scan# 1113

Delta R.T. -0.000 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

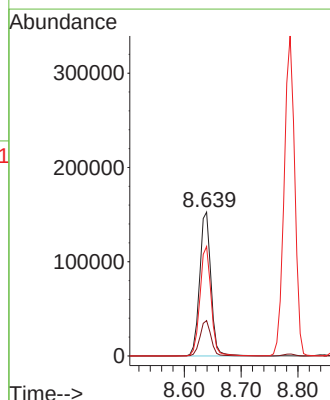
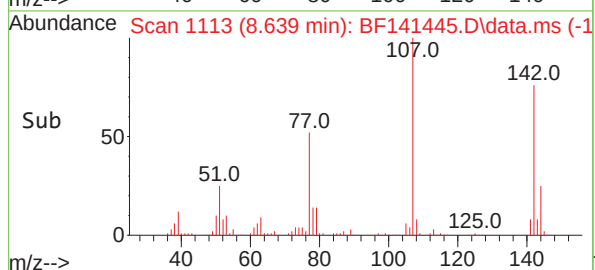
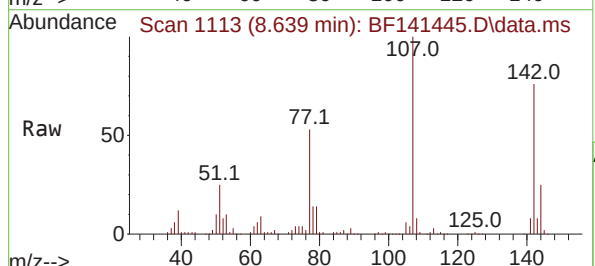
Tgt Ion:107 Resp: 211551

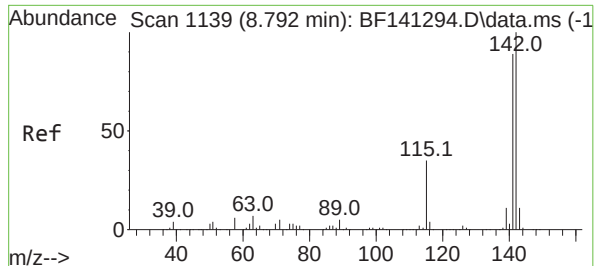
Ion Ratio Lower Upper

107 100

144 24.6 20.7 31.1

142 76.1 63.8 95.8





#37

2-Methylnaphthalene

Concen: 49.126 ng

RT: 8.786 min Scan# 1138

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion:142 Resp: 440350

Ion Ratio Lower Upper

142 100

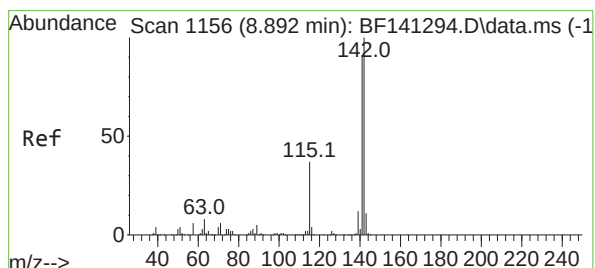
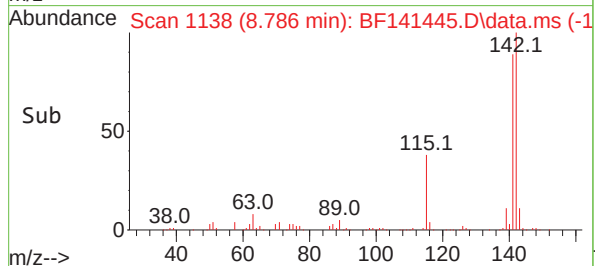
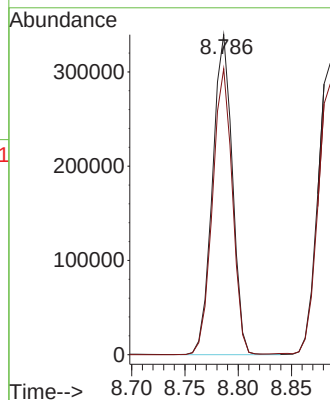
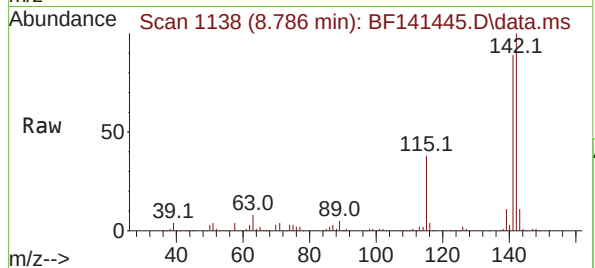
141 89.3 71.3 106.9

Manual Integrations

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Supervised By :mohammad ahmed 02/06/2025



#38

1-Methylnaphthalene

Concen: 46.167 ng

RT: 8.886 min Scan# 1155

Delta R.T. -0.012 min

Lab File: BF141445.D

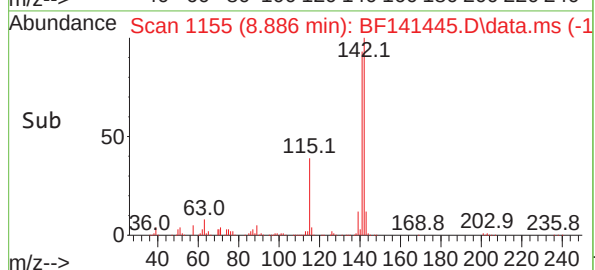
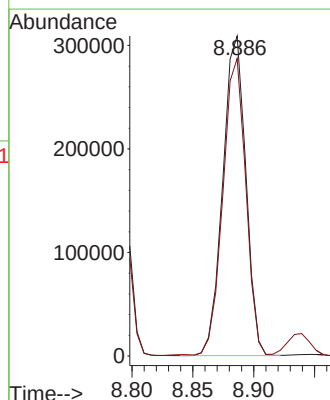
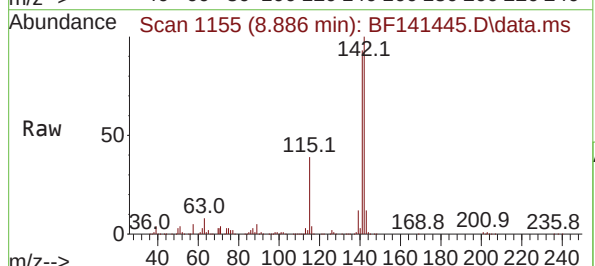
Acq: 05 Feb 2025 14:24

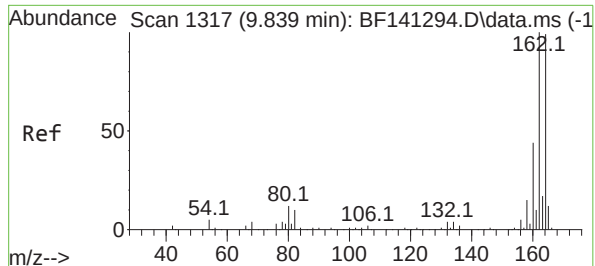
Tgt Ion:142 Resp: 406509

Ion Ratio Lower Upper

142 100

141 92.9 73.2 109.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.828 min Scan# 1166

Delta R.T. -0.012 min

Lab File: BF141445.D

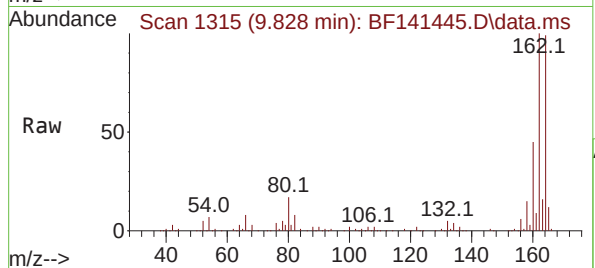
Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS



Tgt Ion:164 Resp: 14574

Ion Ratio Lower Upper

164 100

162 100.9 80.6 121.0

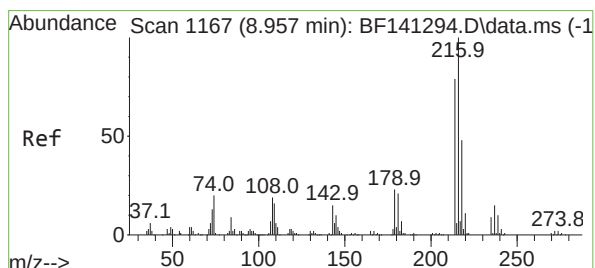
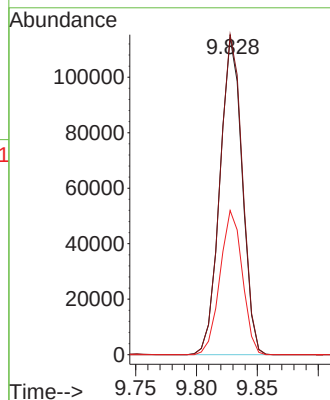
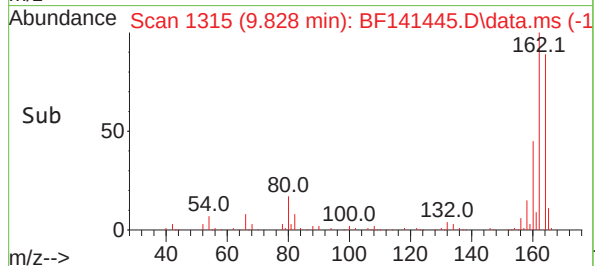
160 45.4 35.8 53.6

Manual Integrations

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#40

1,2,4,5-Tetrachlorobenzene

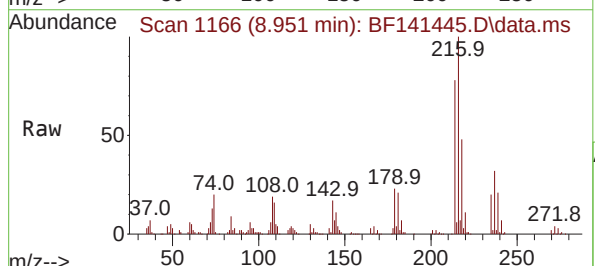
Concen: 49.174 ng

RT: 8.951 min Scan# 1166

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24



Tgt Ion:216 Resp: 203886

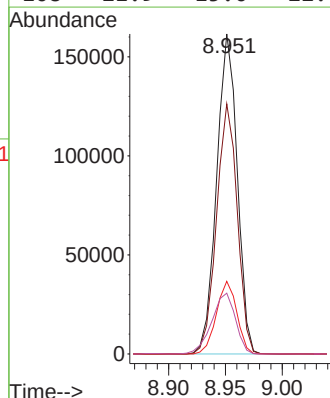
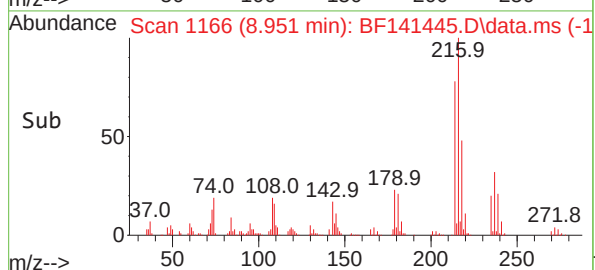
Ion Ratio Lower Upper

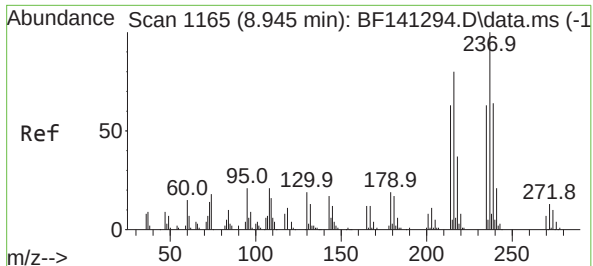
216 100

214 78.4 63.2 94.8

179 22.5 17.8 26.8

108 21.9 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 188.971 ng

RT: 8.939 min Scan# 1164

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

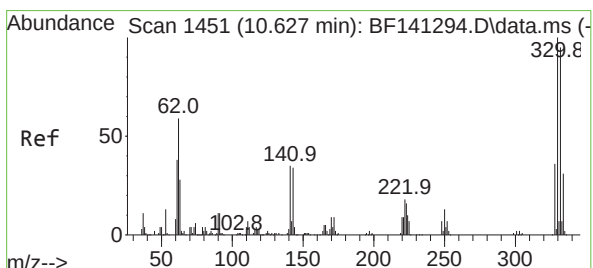
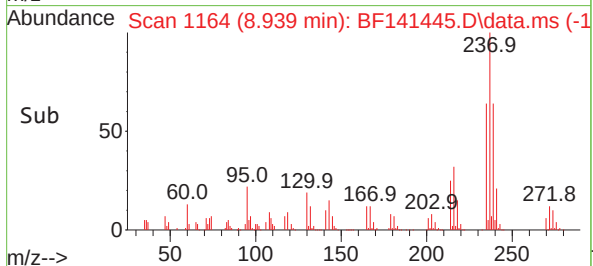
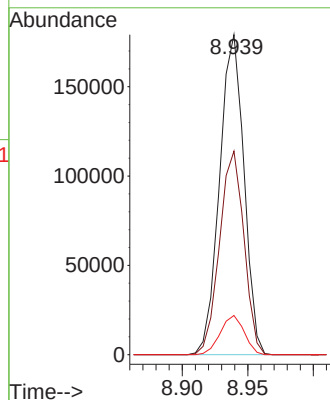
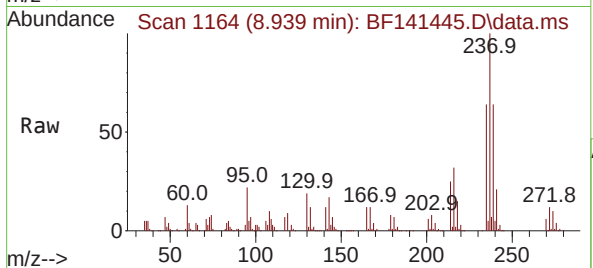
Tgt Ion:	237	Resp:	23139
Ion Ratio	Lower	Upper	
237	100		
235	63.6	42.9	82.9
272	12.2	0.0	32.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#42

2,4,6-Tribromophenol

Concen: 159.056 ng

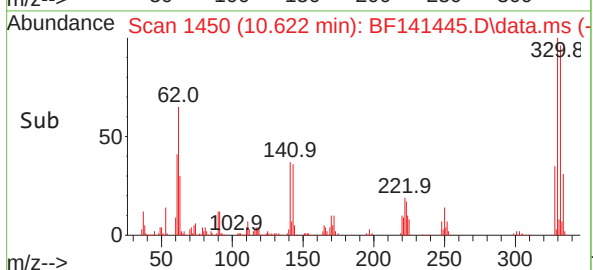
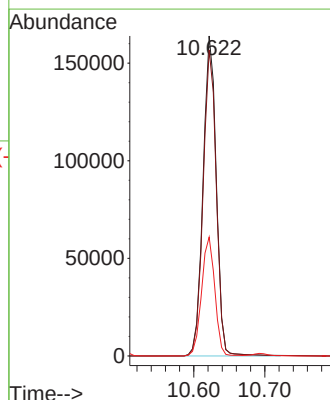
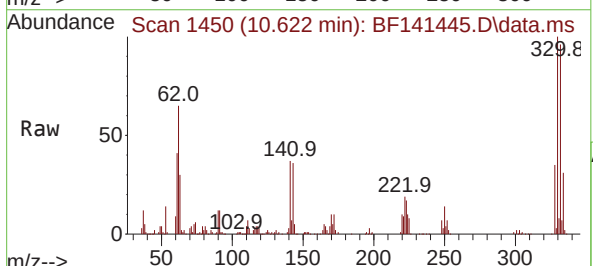
RT: 10.622 min Scan# 1450

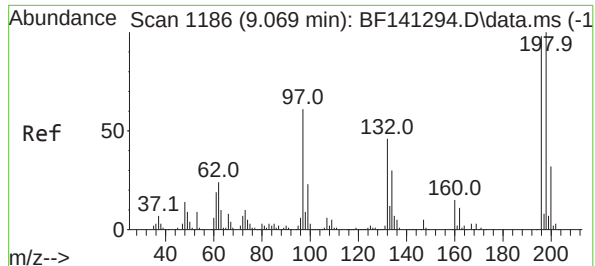
Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Tgt Ion:	330	Resp:	212518
Ion Ratio	Lower	Upper	
330	100		
332	95.7	76.1	114.1
141	37.2	28.8	43.2





#43

2,4,6-Trichlorophenol

Concen: 50.272 ng

RT: 9.069 min Scan# 1186

Delta R.T. -0.006 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion:196 Resp: 13643

Ion Ratio Lower Upper

196 100

198 100.8 81.8 122.6

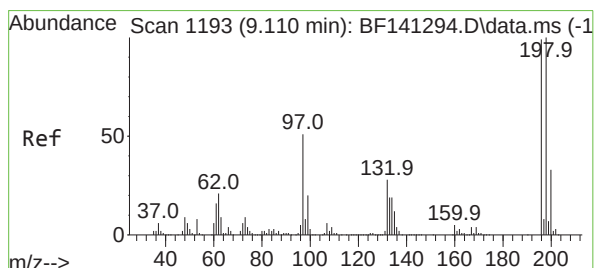
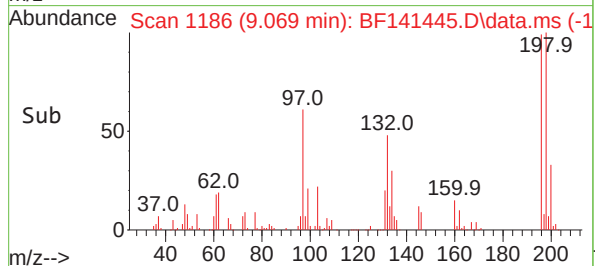
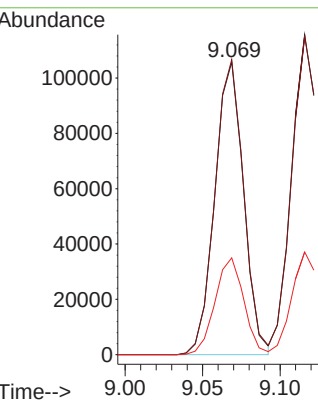
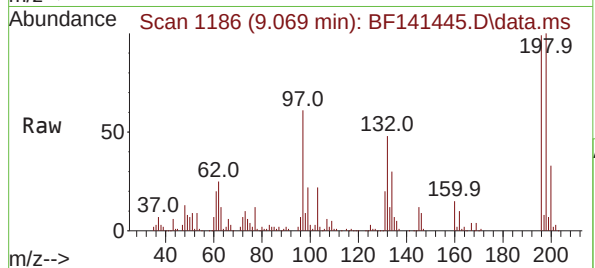
200 33.1 26.3 39.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#44

2,4,5-Trichlorophenol

Concen: 49.828 ng

RT: 9.116 min Scan# 1194

Delta R.T. -0.000 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Tgt Ion:196 Resp: 147177

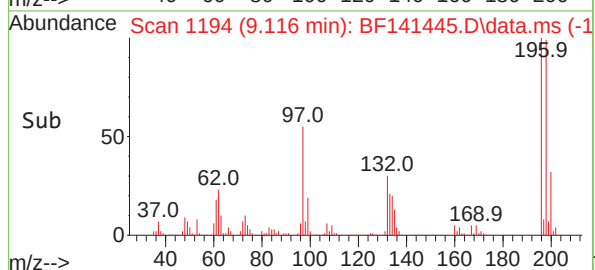
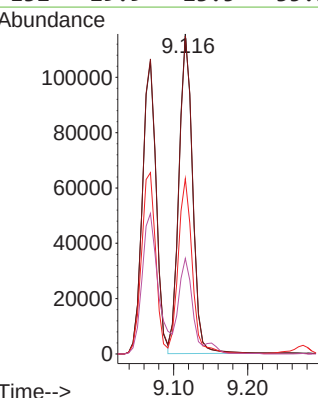
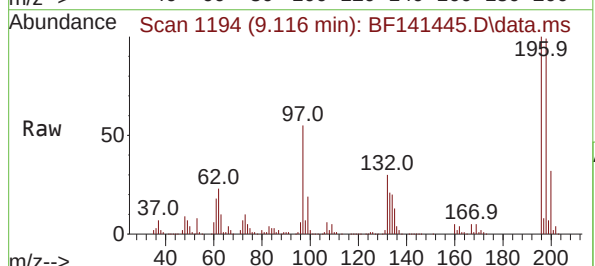
Ion Ratio Lower Upper

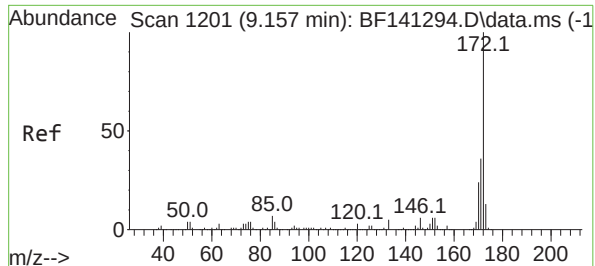
196 100

198 99.4 80.5 120.7

97 54.7 42.8 64.2

132 29.9 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 96.498 ng

RT: 9.151 min Scan# 1200

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

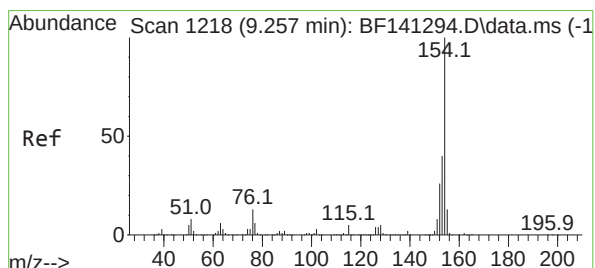
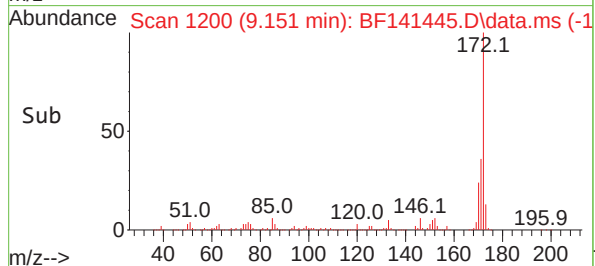
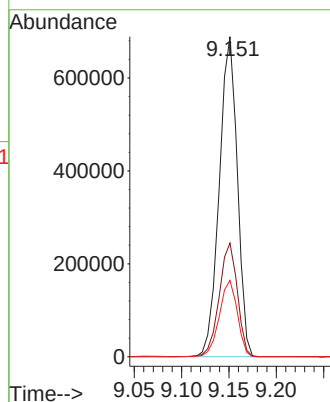
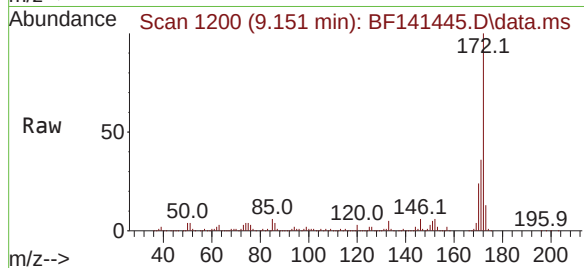
PB166354BS

Tgt Ion:	172	Resp:	91371
Ion Ratio	Lower	Upper	
172	100		
171	35.5	28.8	43.2
170	23.8	19.0	28.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#46

1,1'-Biphenyl

Concen: 47.880 ng

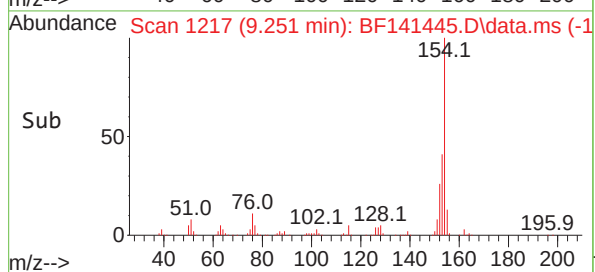
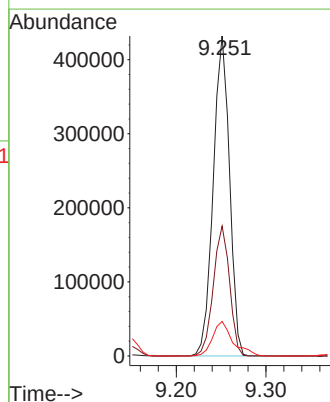
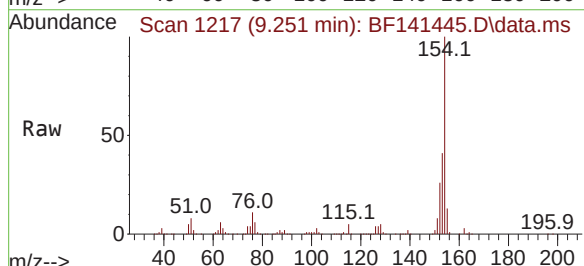
RT: 9.251 min Scan# 1217

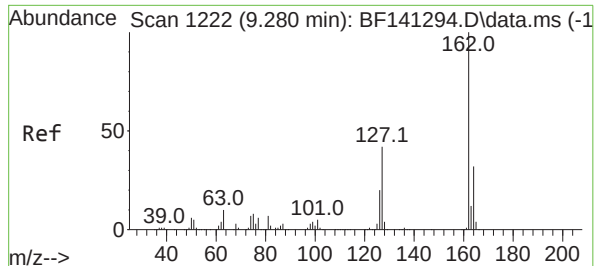
Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Tgt Ion:	154	Resp:	544215
Ion Ratio	Lower	Upper	
154	100		
153	40.6	20.0	60.0
76	10.8	0.0	32.8





#47

2-Chloronaphthalene

Concen: 46.119 ng

RT: 9.275 min Scan# 1221

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion:162 Resp: 408580

Ion Ratio Lower Upper

162 100

127 42.7 33.7 50.5

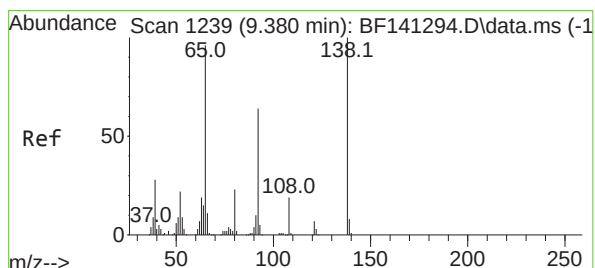
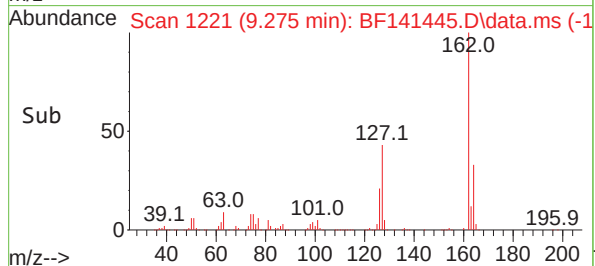
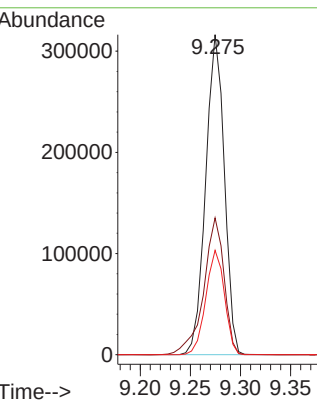
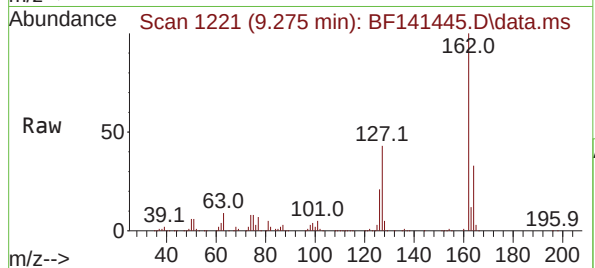
164 32.6 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#48

2-Nitroaniline

Concen: 51.978 ng

RT: 9.375 min Scan# 1238

Delta R.T. -0.006 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

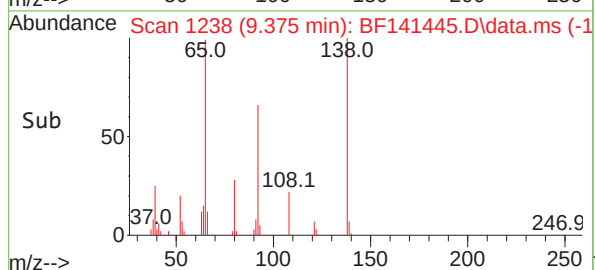
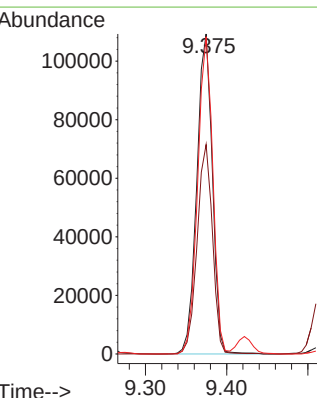
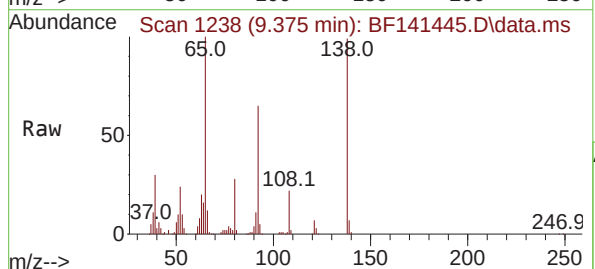
Tgt Ion: 65 Resp: 144841

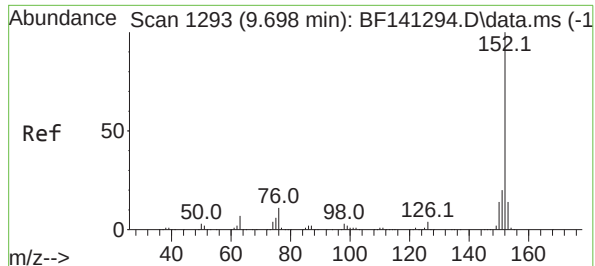
Ion Ratio Lower Upper

65 100

92 65.4 53.3 79.9

138 99.2 83.6 125.4





#49

Acenaphthylene

Concen: 51.649 ng

RT: 9.692 min Scan# 1292

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

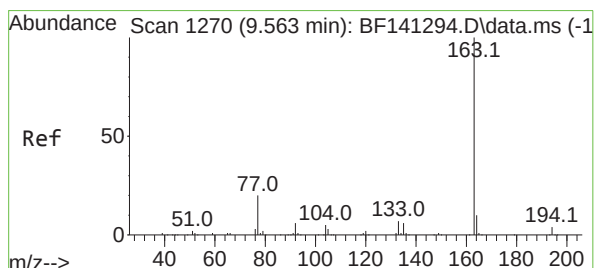
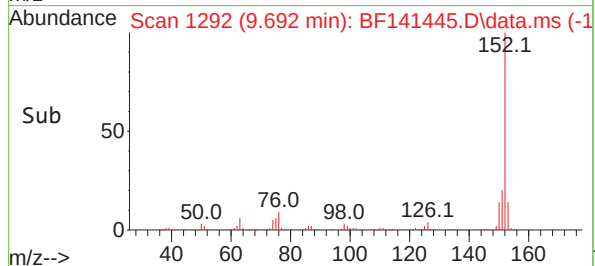
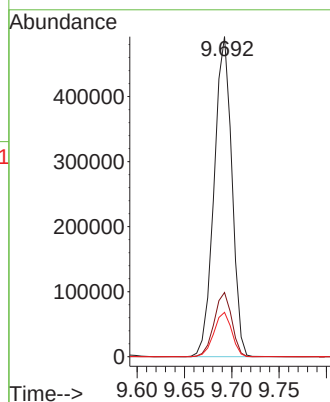
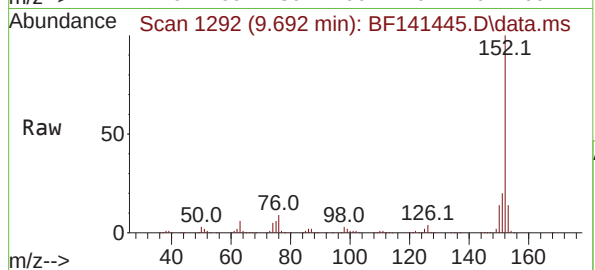
Tgt Ion:152	Resp: 640514
Ion Ratio	Lower Upper
152	100
151	20.1 16.2 24.2
153	13.8 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#50

Dimethylphthalate

Concen: 50.171 ng

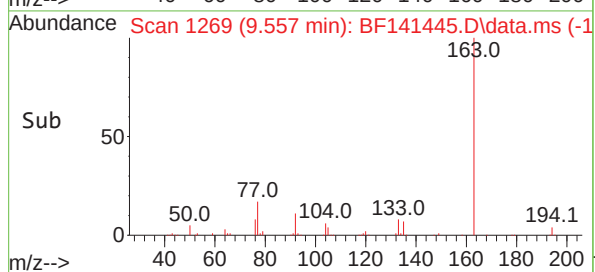
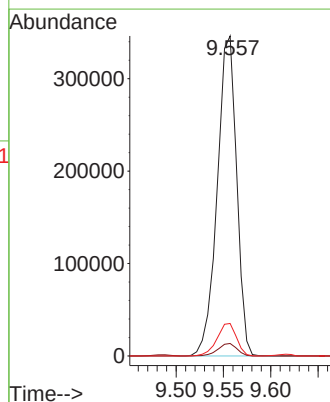
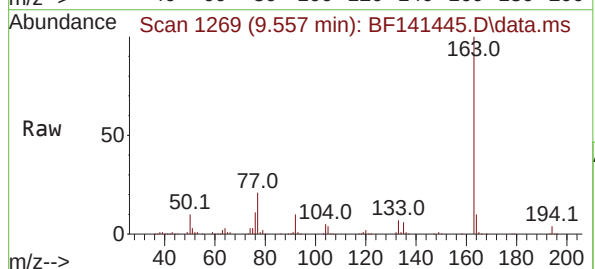
RT: 9.557 min Scan# 1269

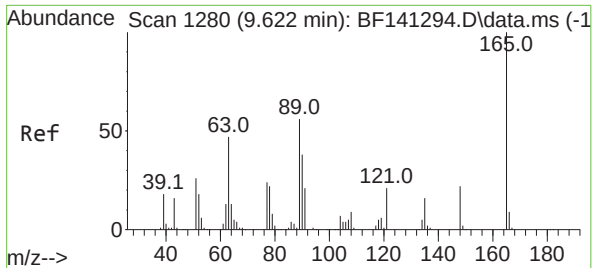
Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

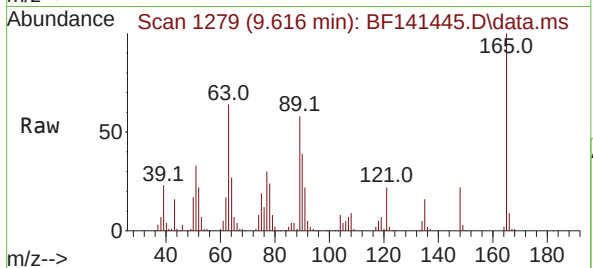
Tgt Ion:163	Resp: 493851
Ion Ratio	Lower Upper
163	100
194	3.9 3.0 4.6
164	10.1 8.0 12.0





#51
2,6-Dinitrotoluene
Concen: 48.470 ng
RT: 9.616 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

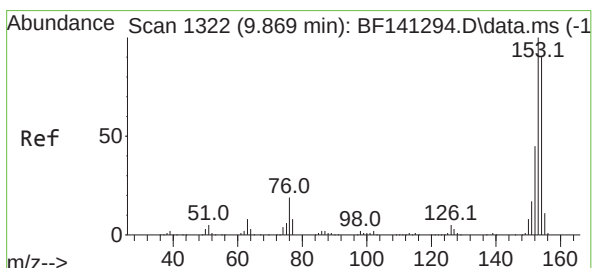
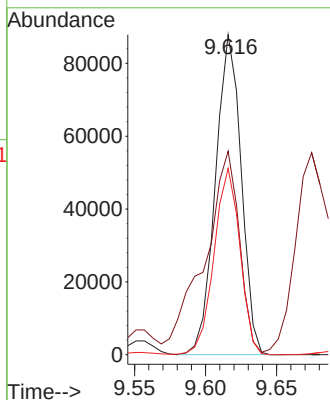
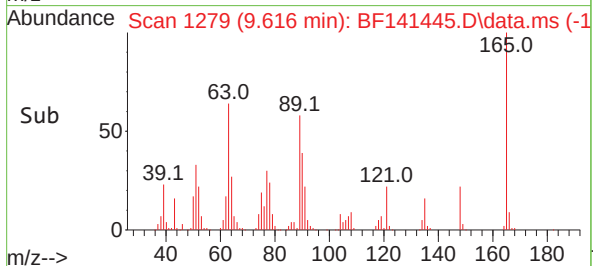
Instrument :
BNA_F
ClientSampleId :
PB166354BS



Tgt Ion:165 Resp: 110779
Ion Ratio Lower Upper
165 100
63 63.6 48.1 72.1
89 58.2 44.9 67.3

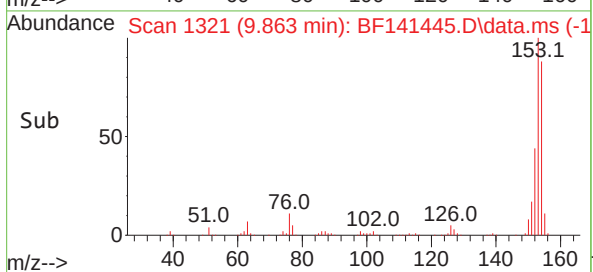
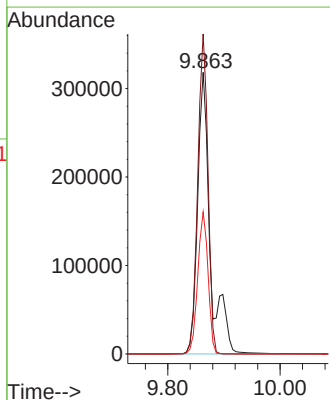
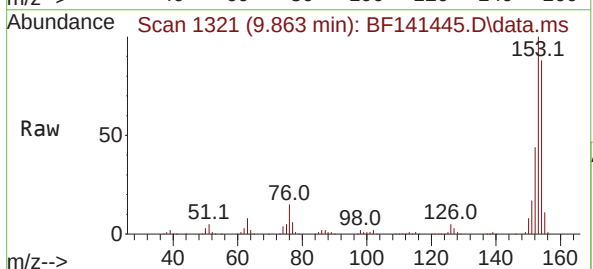
Manual Integrations
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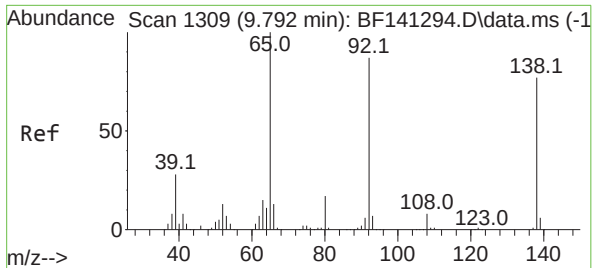
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#52
Acenaphthene
Concen: 56.325 ng m
RT: 9.863 min Scan# 1321
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

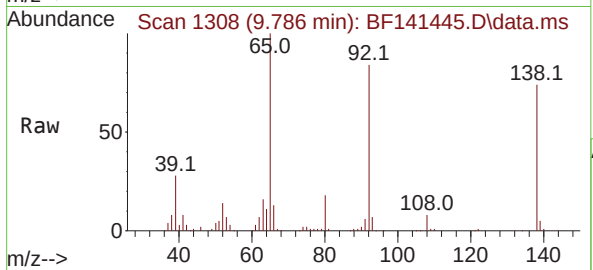
Tgt Ion:154 Resp: 499019
Ion Ratio Lower Upper
154 100
153 113.7 89.0 133.4
152 50.5 40.2 60.4





#53
3-Nitroaniline
Concen: 28.925 ng
RT: 9.786 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

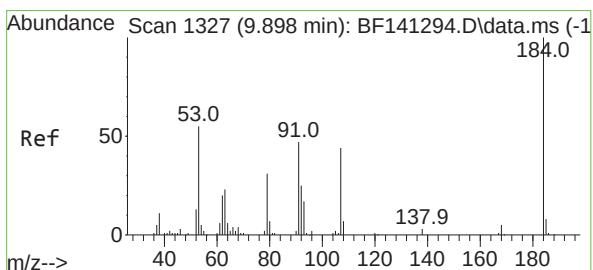
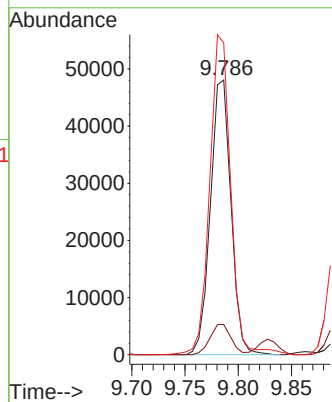
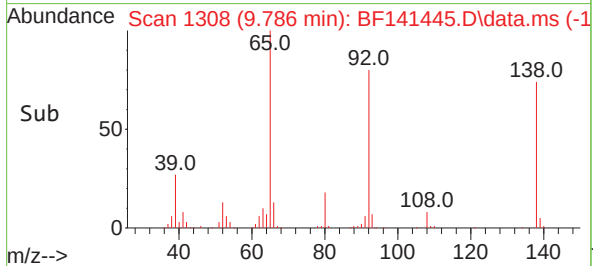
Instrument :
BNA_F
ClientSampleId :
PB166354BS



Tgt Ion:138 Resp: 6479
Ion Ratio Lower Upper
138 100
108 11.0 8.6 12.8
92 113.5 91.0 136.6

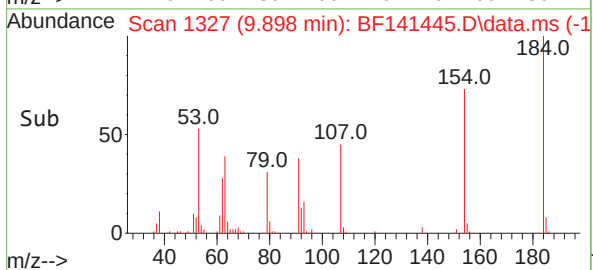
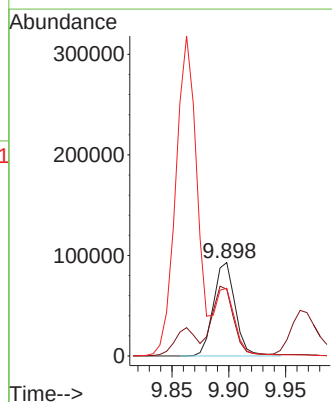
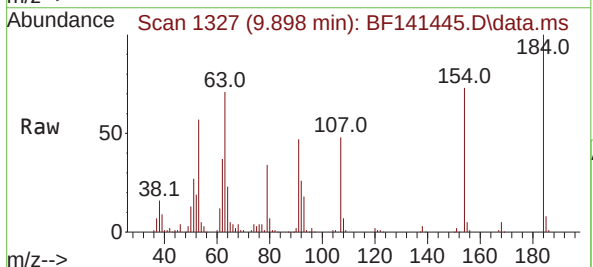
Manual Integrations
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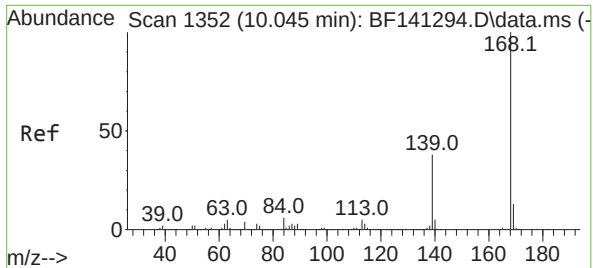
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#54
2,4-Dinitrophenol
Concen: 117.220 ng
RT: 9.898 min Scan# 1327
Delta R.T. -0.006 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

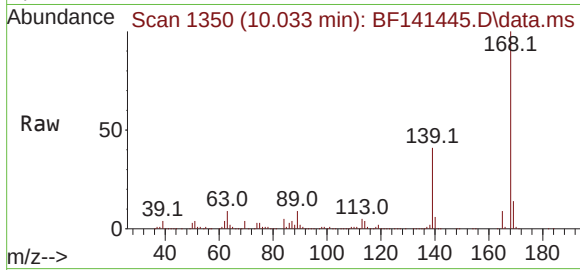
Tgt Ion:184 Resp: 124538
Ion Ratio Lower Upper
184 100
63 71.4 54.1 81.1
154 72.5 50.7 76.1





#55
Dibenzofuran
Concen: 49.506 ng
RT: 10.033 min Scan# 1350
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

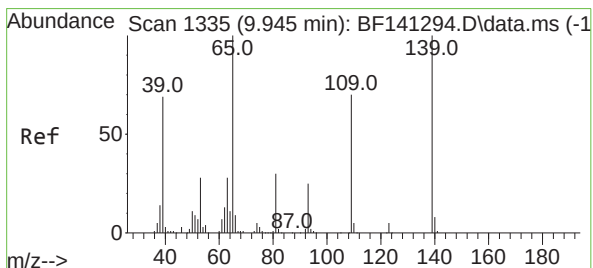
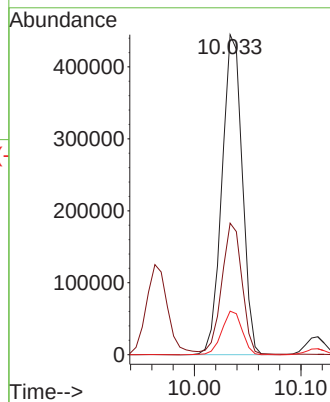
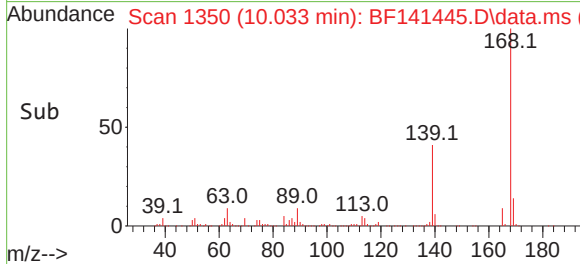
Instrument :
BNA_F
ClientSampleId :
PB166354BS



Tgt Ion:168 Resp: 587088
Ion Ratio Lower Upper
168 100
139 41.1 30.6 46.0
169 13.6 10.8 16.2

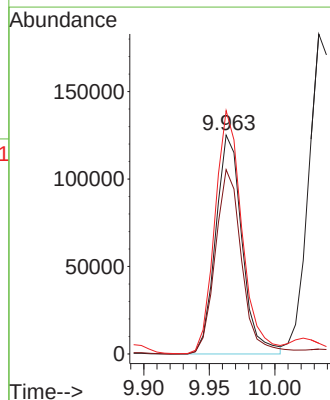
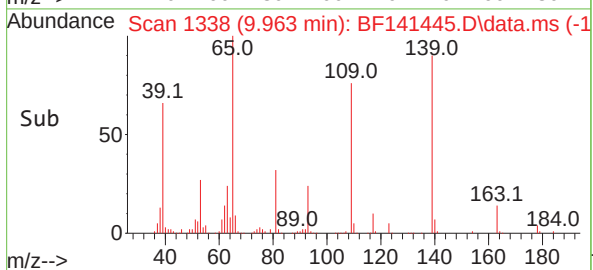
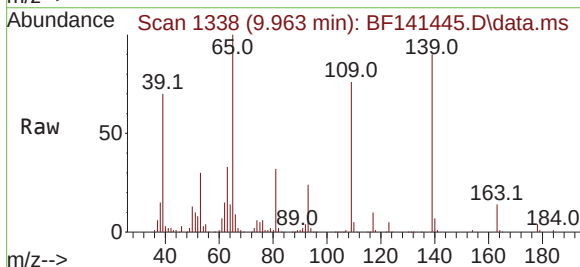
Manual Integrations
APPROVED

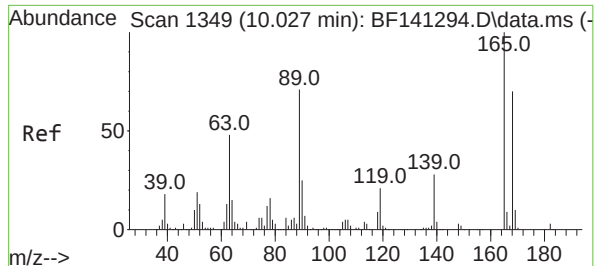
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#56
4-Nitrophenol
Concen: 106.813 ng
RT: 9.963 min Scan# 1338
Delta R.T. 0.006 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

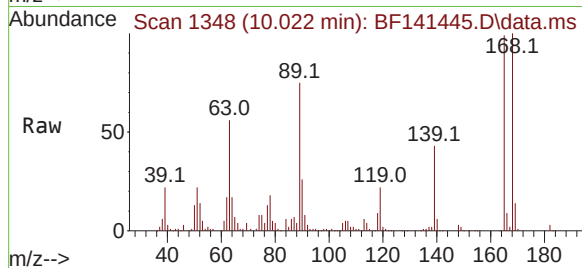
Tgt Ion:139 Resp: 174985
Ion Ratio Lower Upper
139 100
109 84.2 50.2 90.2
65 111.2 80.6 120.6





#57
2,4-Dinitrotoluene
Concen: 52.347 ng
RT: 10.022 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

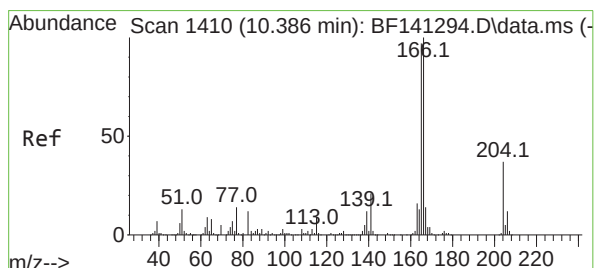
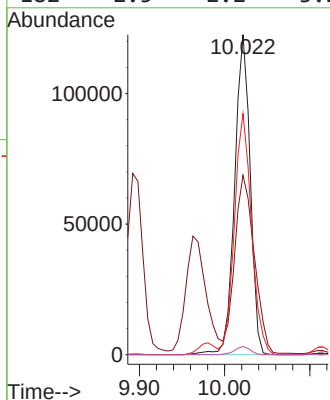
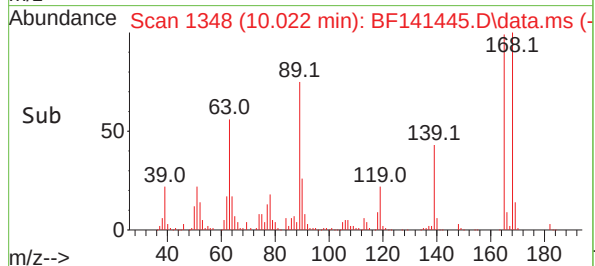
Instrument :
BNA_F
ClientSampleId :
PB166354BS



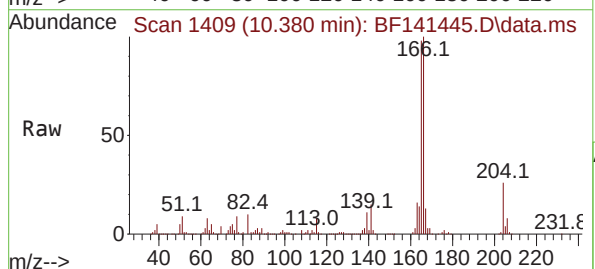
Tgt Ion:165 Resp: 154900
Ion Ratio Lower Upper
165 100
63 56.0 39.2 58.8
89 75.3 56.9 85.3
182 2.5 2.2 3.2

Manual Integrations
APPROVED

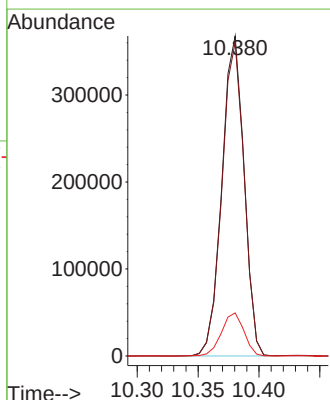
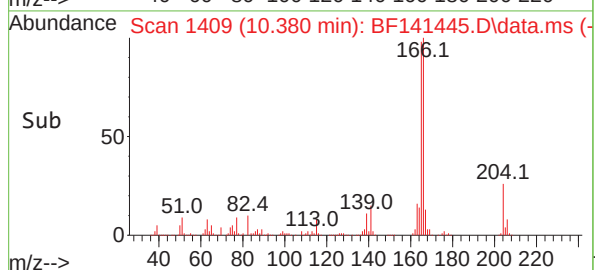
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

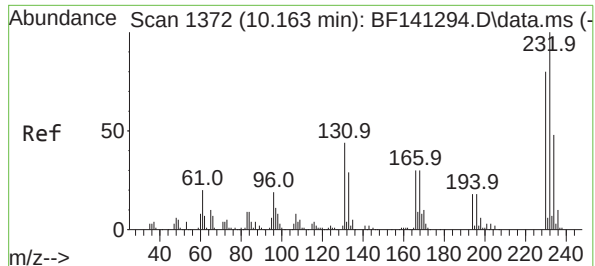


#58
Fluorene
Concen: 50.684 ng
RT: 10.380 min Scan# 1409
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24



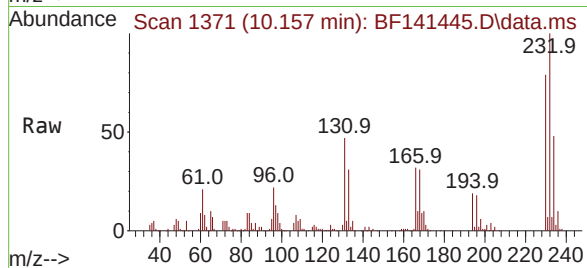
Tgt Ion:166 Resp: 466233
Ion Ratio Lower Upper
166 100
165 97.9 77.5 116.3
167 13.5 10.9 16.3





#59
2,3,4,6-Tetrachlorophenol
Concen: 56.106 ng
RT: 10.157 min Scan# 1371
Delta R.T. -0.006 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

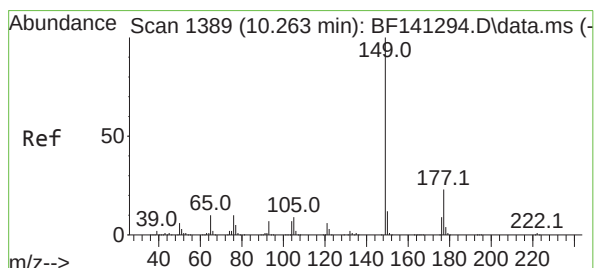
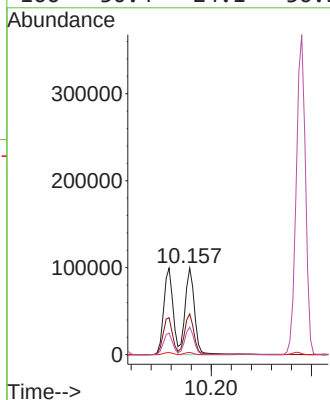
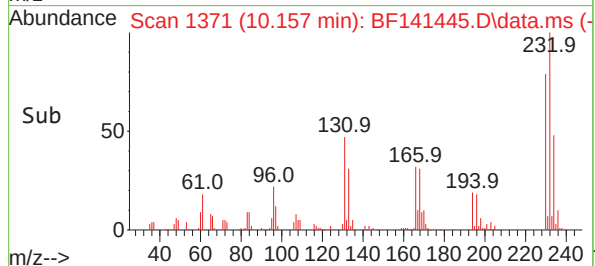
Instrument :
BNA_F
ClientSampleId :
PB166354BS



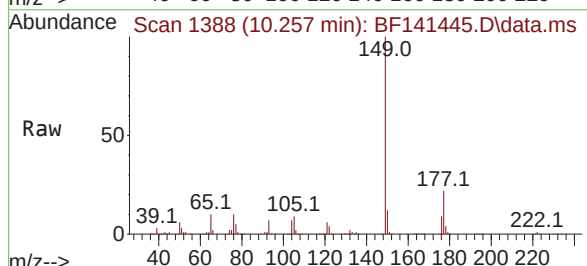
Tgt Ion:232 Resp: 130370
Ion Ratio Lower Upper
232 100
131 47.2 36.4 54.6
130 2.5 1.9 2.9
166 30.4 24.1 36.1

Manual Integrations
APPROVED

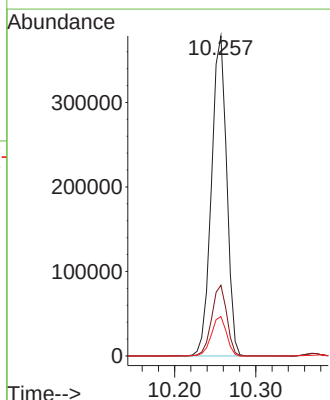
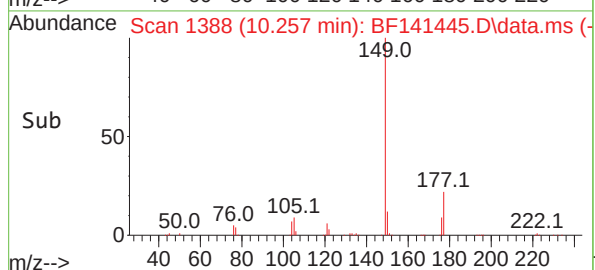
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

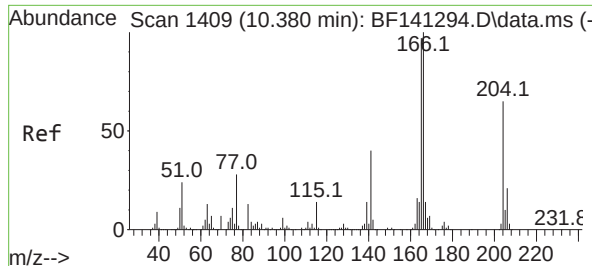


#60
Diethylphthalate
Concen: 51.676 ng
RT: 10.257 min Scan# 1388
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24



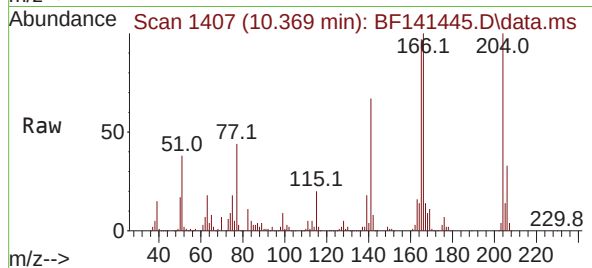
Tgt Ion:149 Resp: 493211
Ion Ratio Lower Upper
149 100
177 22.1 18.5 27.7
150 12.3 10.0 15.0





#61
4-Chlorophenyl-phenylether
Concen: 50.239 ng
RT: 10.369 min Scan# 1407
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

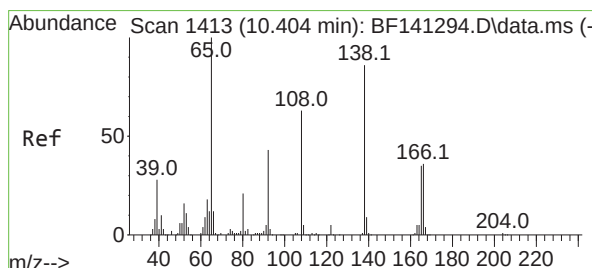
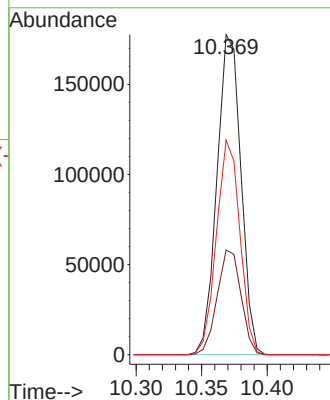
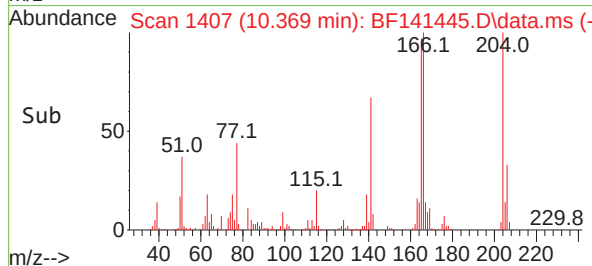
Instrument :
BNA_F
ClientSampleId :
PB166354BS



Tgt Ion:204 Resp: 22574
Ion Ratio Lower Upper
204 100
206 32.7 25.9 38.9
141 67.1 49.5 74.3

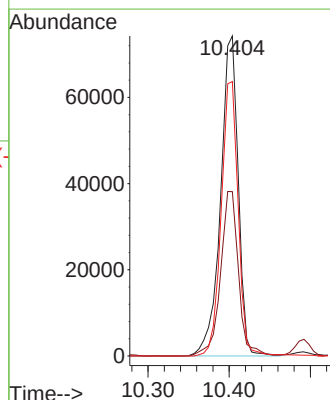
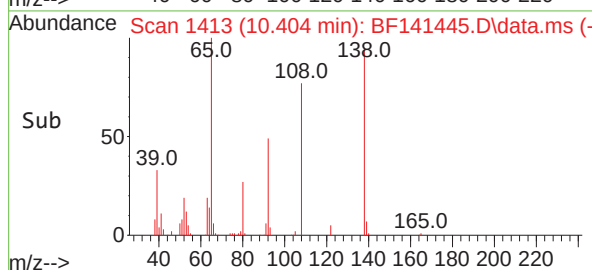
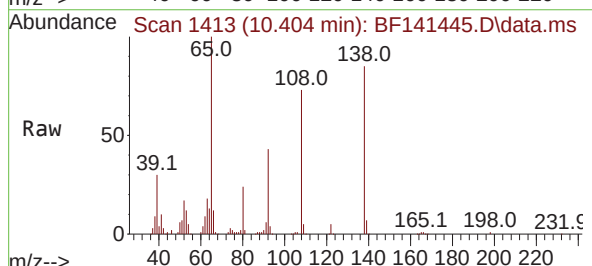
Manual Integrations
APPROVED

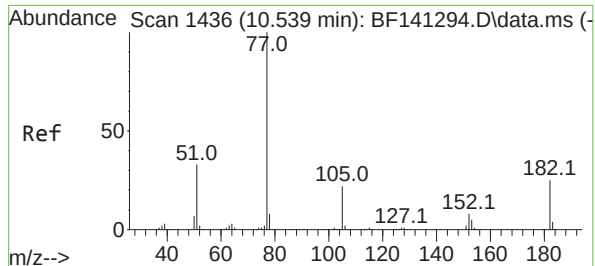
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#62
4-Nitroaniline
Concen: 51.125 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

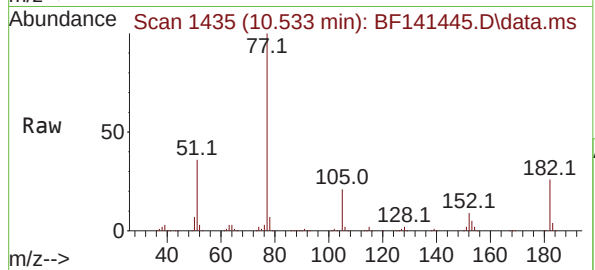
Tgt Ion:138 Resp: 112592
Ion Ratio Lower Upper
138 100
92 51.3 30.1 70.1
108 85.7 53.1 93.1





#63
Azobenzene
Concen: 49.591 ng
RT: 10.533 min Scan# 1435
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

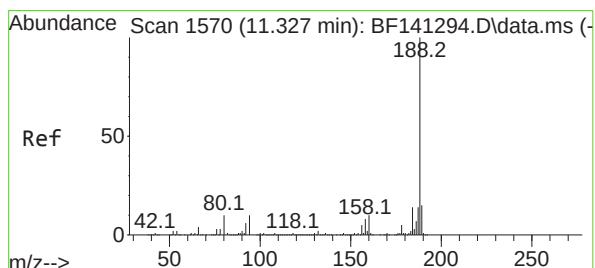
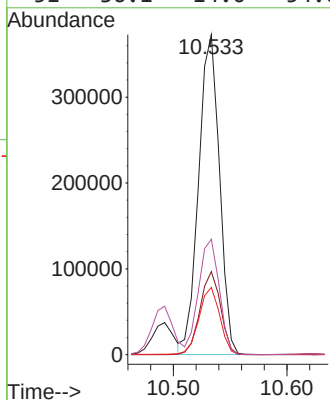
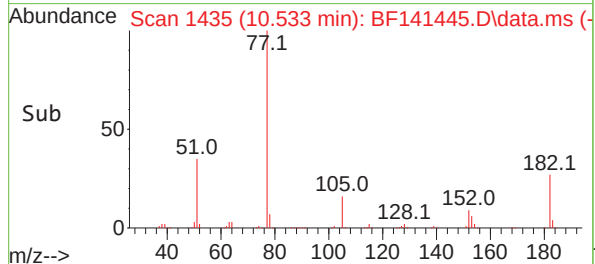
Instrument :
BNA_F
ClientSampleId :
PB166354BS



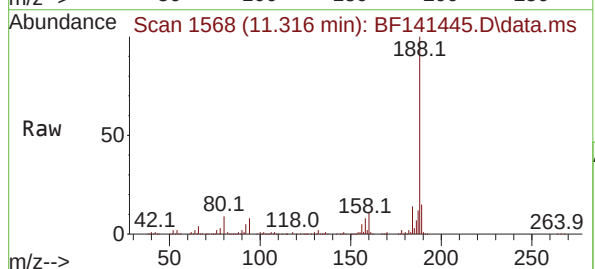
Tgt Ion: 77 Resp: 473769
Ion Ratio Lower Upper
77 100
182 26.0 5.1 45.1
105 21.0 1.8 41.8
51 36.1 14.0 54.0

Manual Integrations
APPROVED

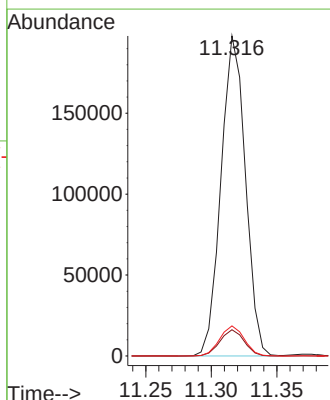
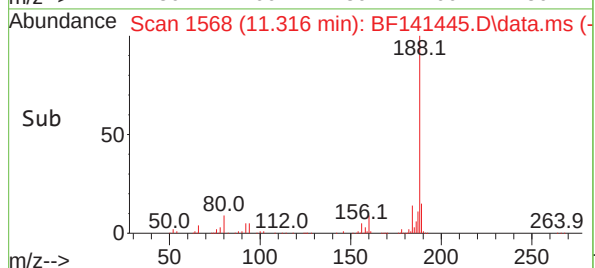
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

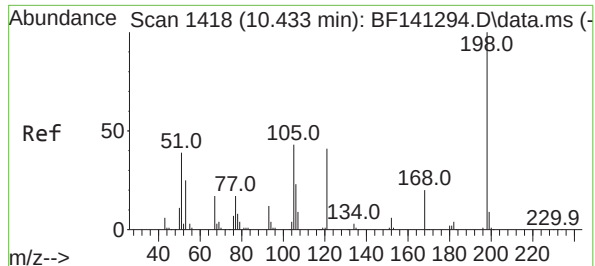


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 1568
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24



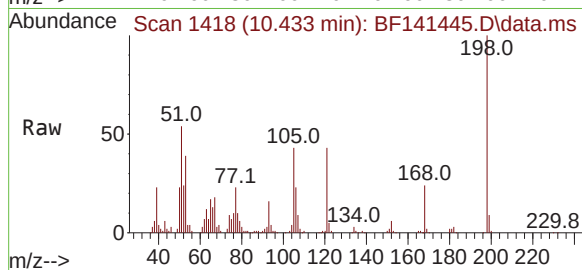
Tgt Ion:188 Resp: 256036
Ion Ratio Lower Upper
188 100
94 8.2 7.8 11.6
80 9.4 8.2 12.4





#65
4,6-Dinitro-2-methylphenol
Concen: 58.837 ng
RT: 10.433 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

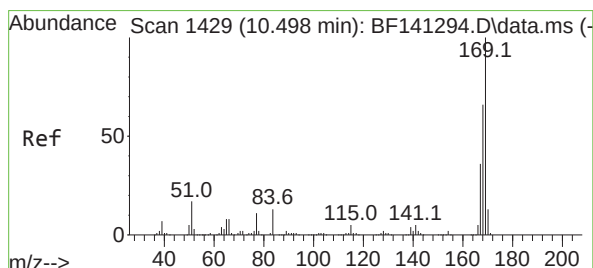
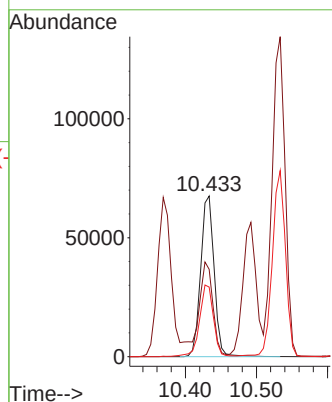
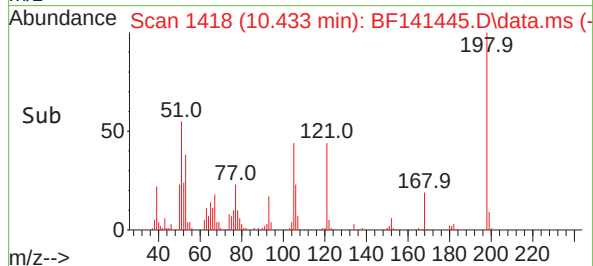
Instrument :
BNA_F
ClientSampleId :
PB166354BS



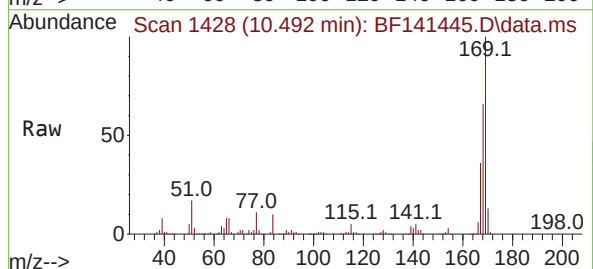
Tgt Ion:198 Resp: 8910
Ion Ratio Lower Upper
198 100
51 54.3 33.4 73.4
105 43.3 24.4 64.4

Manual Integrations
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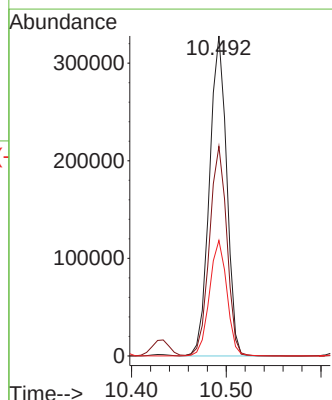
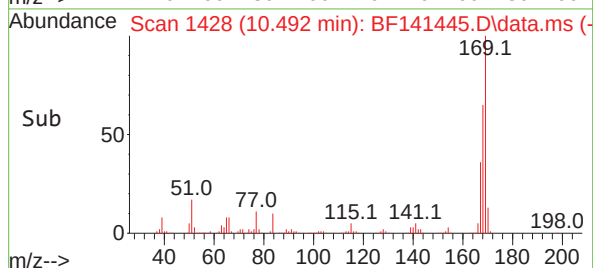
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

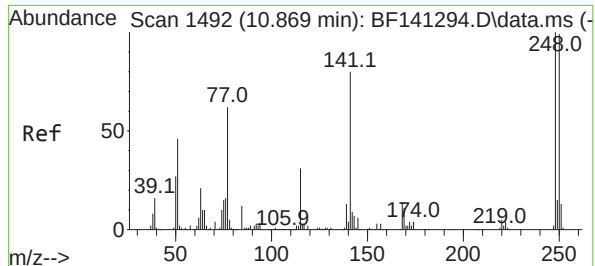


#66
n-Nitrosodiphenylamine
Concen: 49.932 ng
RT: 10.492 min Scan# 1428
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24



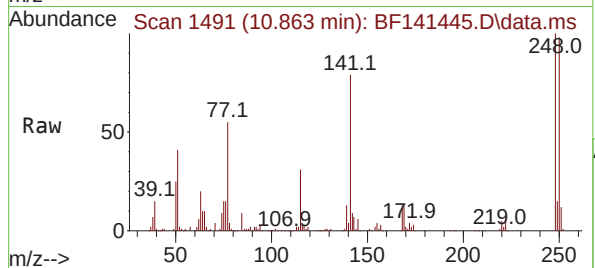
Tgt Ion:169 Resp: 413491
Ion Ratio Lower Upper
169 100
168 65.5 53.0 79.4
167 36.1 28.8 43.2





#67
4-Bromophenyl-phenylether
Concen: 49.399 ng
RT: 10.863 min Scan# 141
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

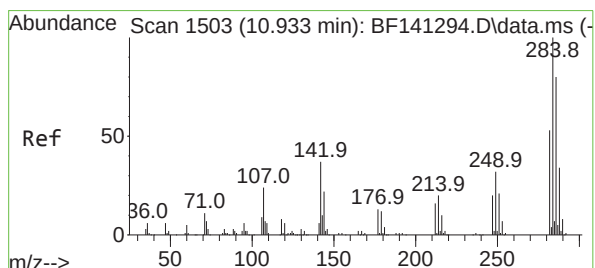
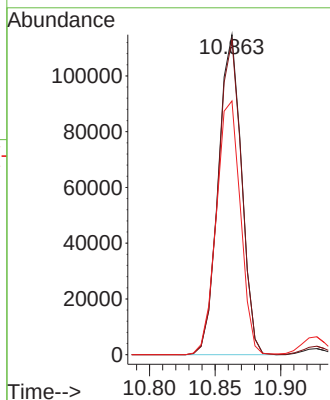
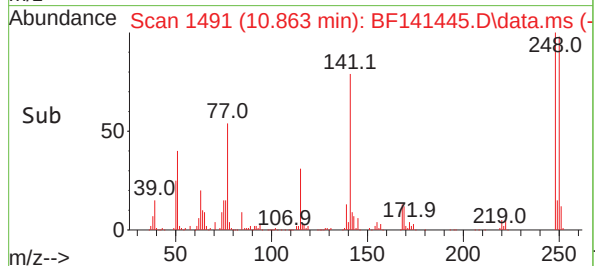
Instrument :
BNA_F
ClientSampleId :
PB166354BS



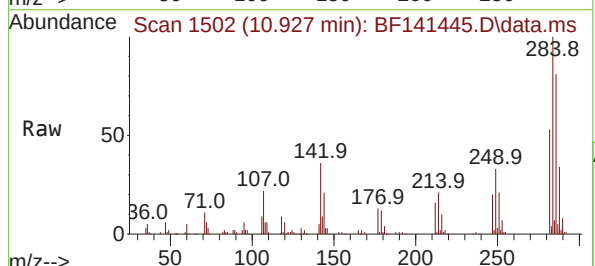
Tgt Ion:248 Resp: 141597
Ion Ratio Lower Upper
248 100
250 98.4 79.0 118.4
141 79.3 63.7 95.5

Manual Integrations
APPROVED

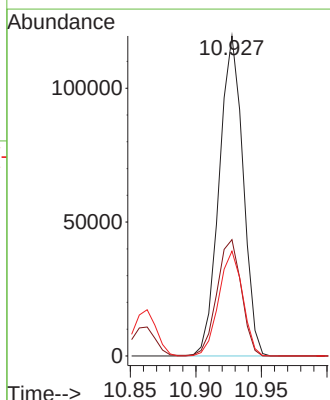
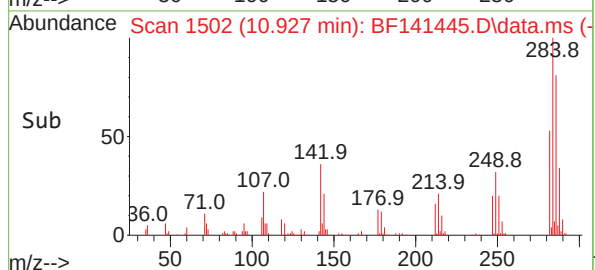
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

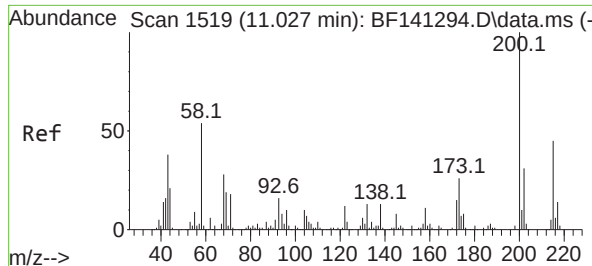


#68
Hexachlorobenzene
Concen: 49.765 ng
RT: 10.927 min Scan# 1502
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24



Tgt Ion:284 Resp: 151314
Ion Ratio Lower Upper
284 100
142 36.4 29.5 44.3
249 32.7 25.4 38.2





#69

Atrazine

Concen: 53.215 ng

RT: 11.022 min Scan# 1519

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion:200 Resp: 14734

Ion Ratio Lower Upper

200 100

173 25.6 5.9 45.9

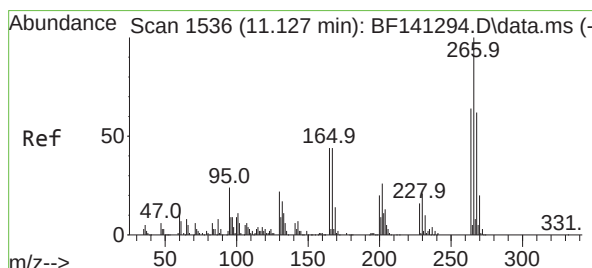
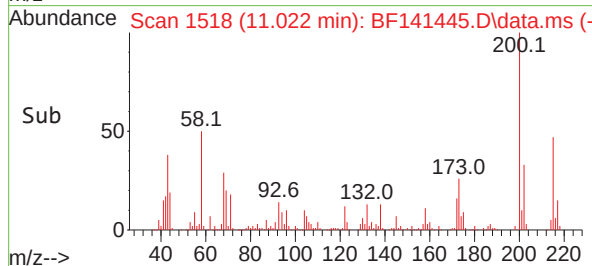
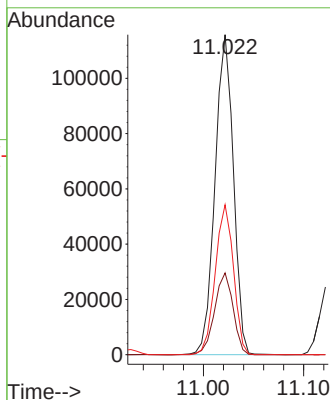
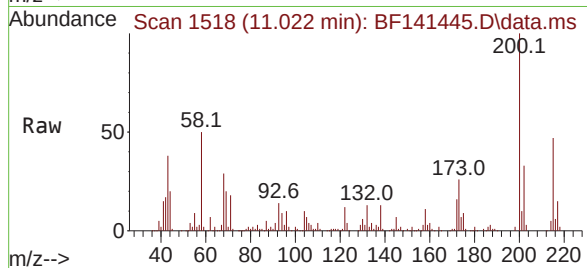
215 46.8 25.2 65.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#70

Pentachlorophenol

Concen: 104.023 ng

RT: 11.127 min Scan# 1536

Delta R.T. -0.006 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

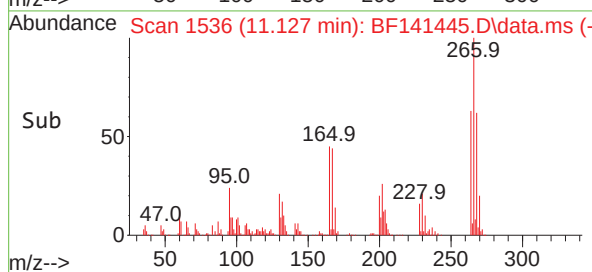
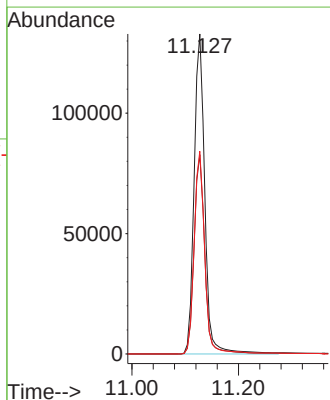
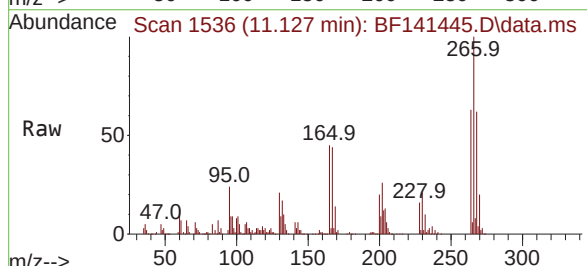
Tgt Ion:266 Resp: 185211

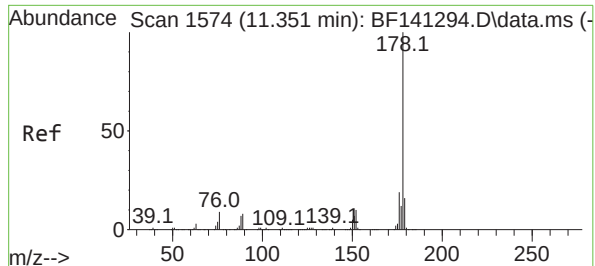
Ion Ratio Lower Upper

266 100

268 62.3 49.9 74.9

264 63.3 51.0 76.4





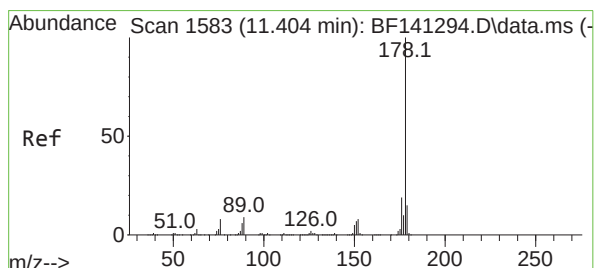
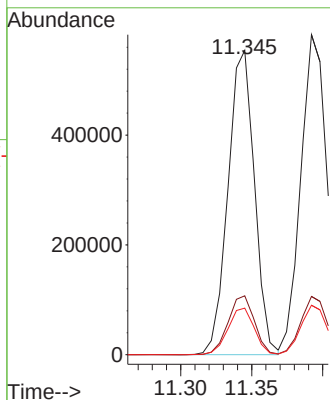
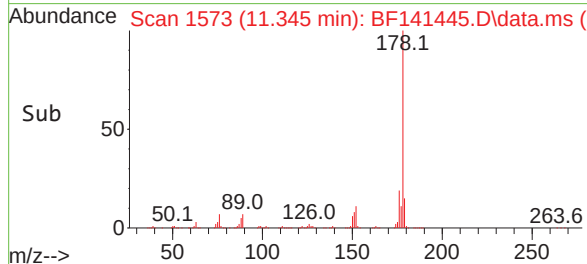
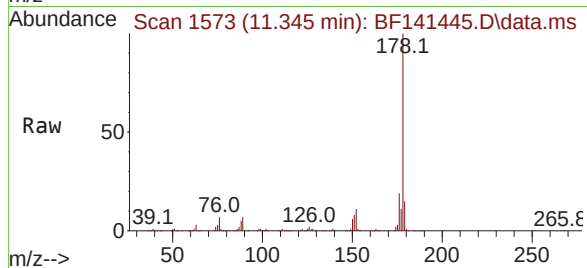
#71
Phenanthrene
Concen: 52.285 ng
RT: 11.345 min Scan# 1573
Delta R.T. -0.006 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

Instrument :
BNA_F
ClientSampleId :
PB166354BS

Tgt Ion:178 Resp: 719590
Ion Ratio Lower Upper
178 100
176 19.3 15.3 22.9
179 15.3 12.5 18.7

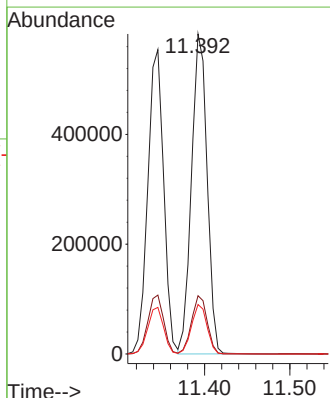
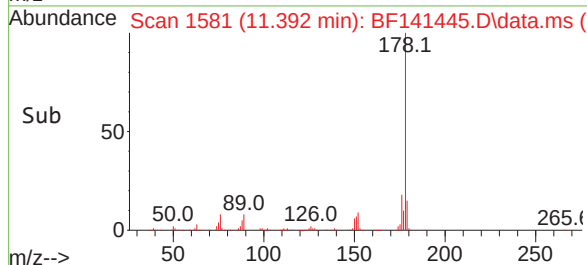
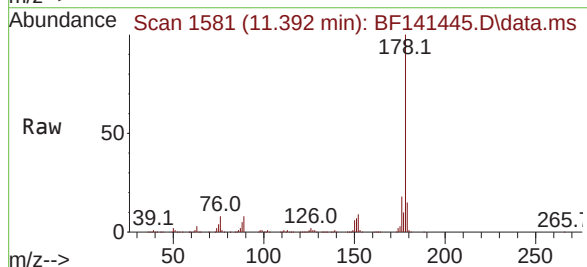
Manual Integrations
APPROVED

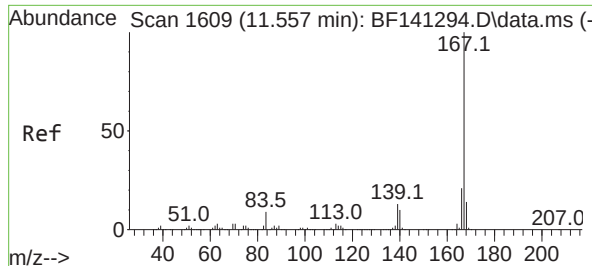
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#72
Anthracene
Concen: 54.963 ng
RT: 11.392 min Scan# 1581
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

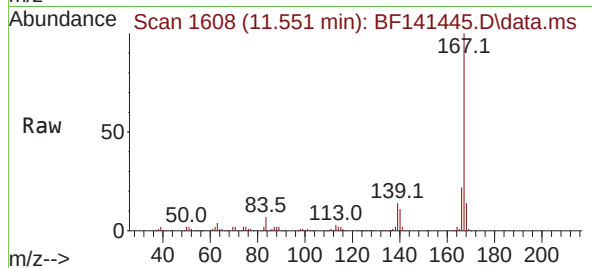
Tgt Ion:178 Resp: 741186
Ion Ratio Lower Upper
178 100
176 18.2 15.0 22.6
179 15.5 12.3 18.5





#73
Carbazole
Concen: 53.546 ng
RT: 11.551 min Scan# 1608
Delta R.T. -0.006 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

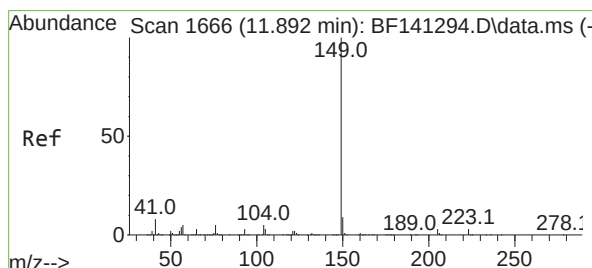
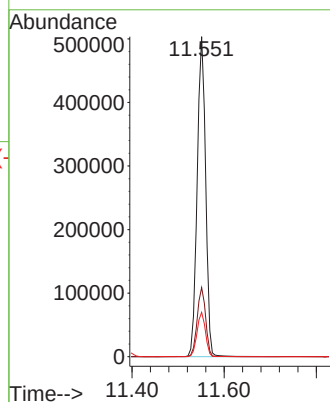
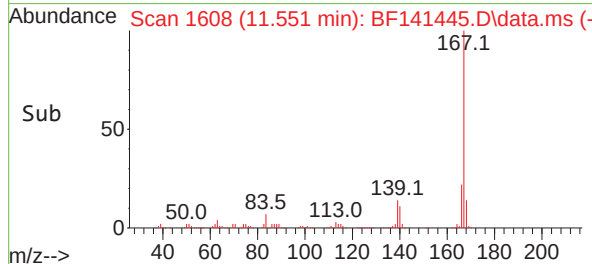
Instrument :
BNA_F
ClientSampleId :
PB166354BS



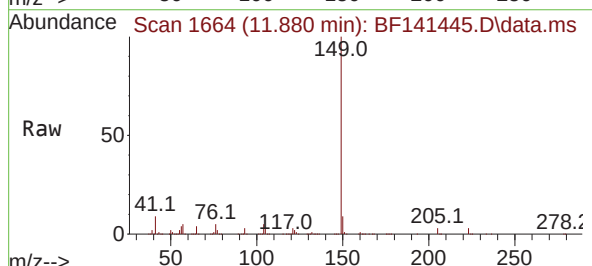
Tgt Ion:167 Resp: 640285
Ion Ratio Lower Upper
167 100
166 21.6 17.0 25.6
139 13.9 10.6 16.0

Manual Integrations
APPROVED

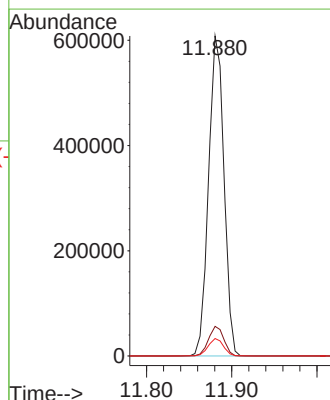
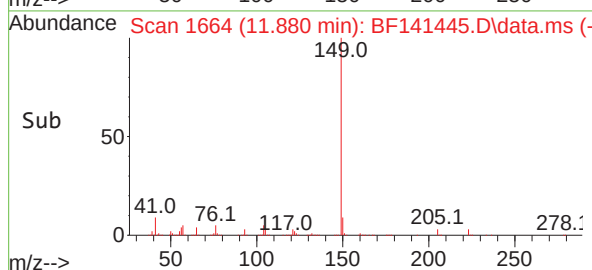
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

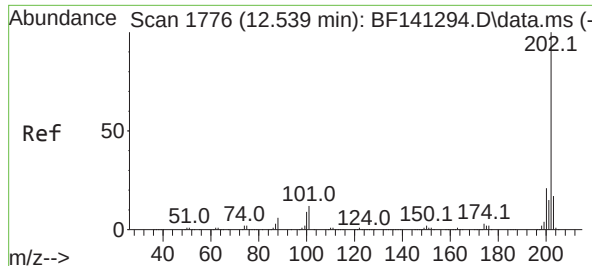


#74
Di-n-butylphthalate
Concen: 52.738 ng
RT: 11.880 min Scan# 1664
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24



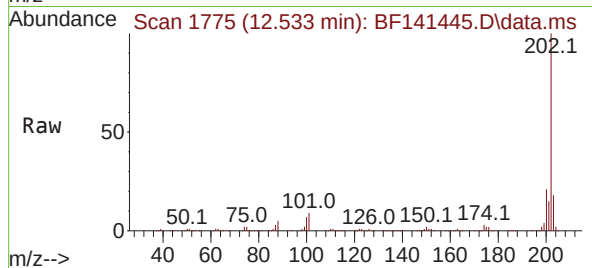
Tgt Ion:149 Resp: 764248
Ion Ratio Lower Upper
149 100
150 9.3 7.4 11.2
104 5.5 3.9 5.9





#75
Fluoranthene
Concen: 57.260 ng
RT: 12.533 min Scan# 1776
Delta R.T. -0.006 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

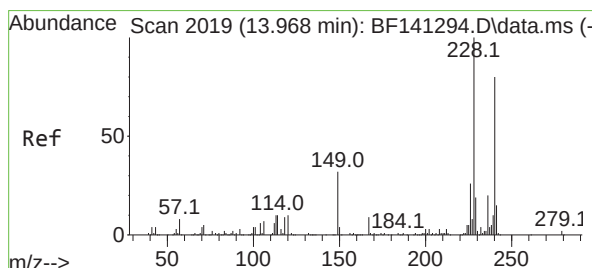
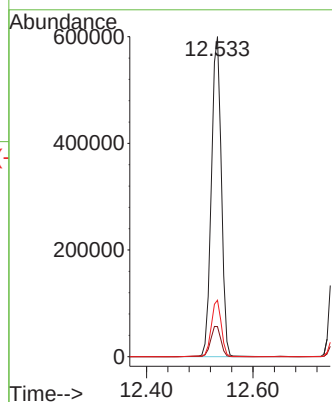
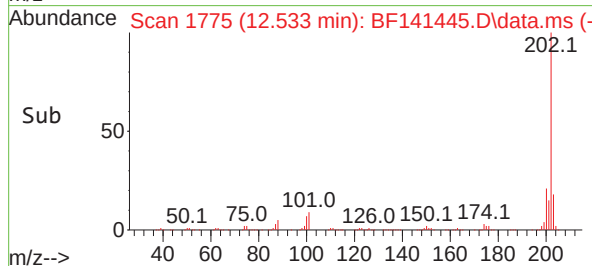
Instrument :
BNA_F
ClientSampleId :
PB166354BS



Tgt Ion:202 Resp: 778134
Ion Ratio Lower Upper
202 100
101 9.4 0.0 31.7
203 17.6 0.0 37.5

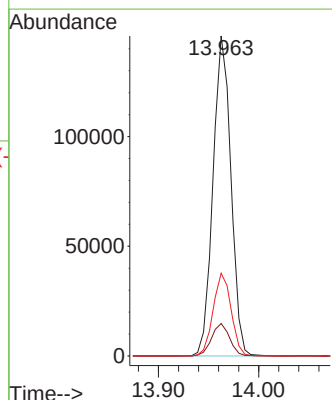
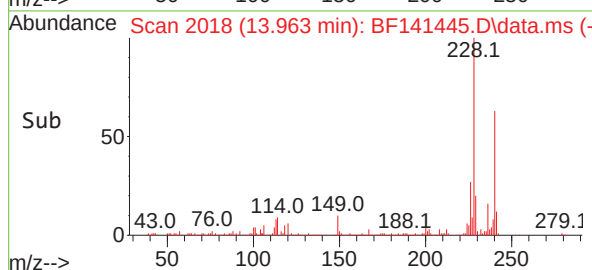
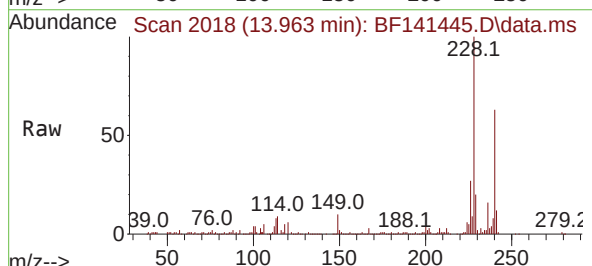
Manual Integrations
APPROVED

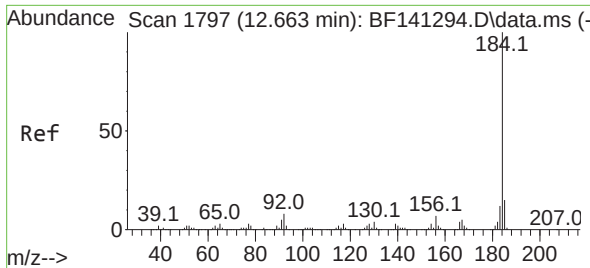
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.963 min Scan# 2018
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

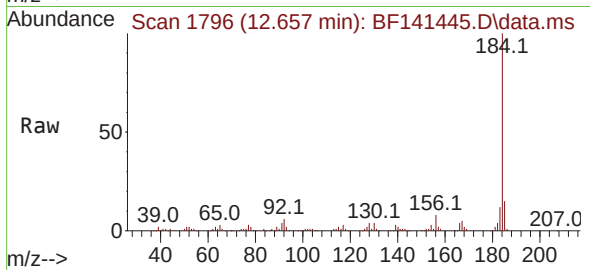
Tgt Ion:240 Resp: 181162
Ion Ratio Lower Upper
240 100
120 10.1 10.0 15.0
236 25.8 19.7 29.5





#77
Benzidine
Concen: 29.114 ng
RT: 12.657 min Scan# 1796
Delta R.T. -0.006 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

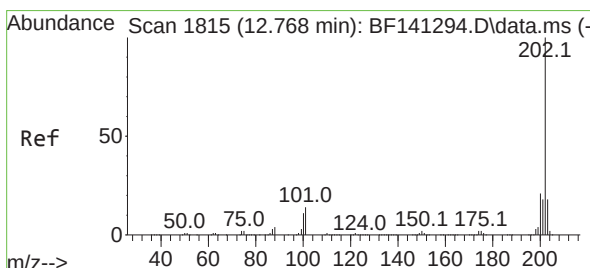
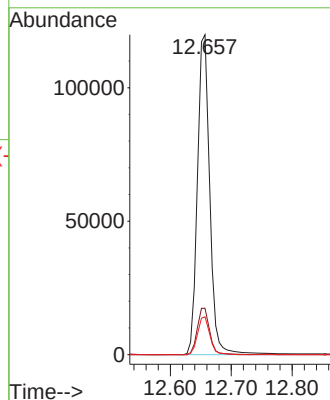
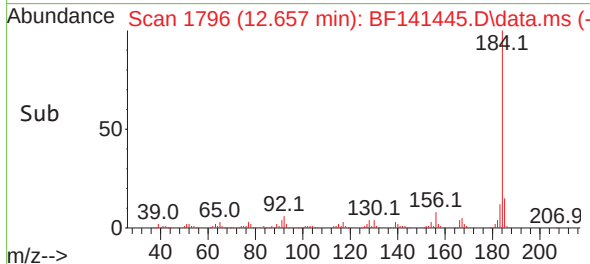
Instrument :
BNA_F
ClientSampleId :
PB166354BS



Tgt Ion:184 Resp: 169088
Ion Ratio Lower Upper
184 100
185 14.5 11.9 17.9
183 11.9 9.5 14.3

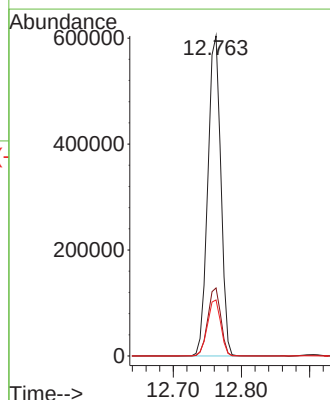
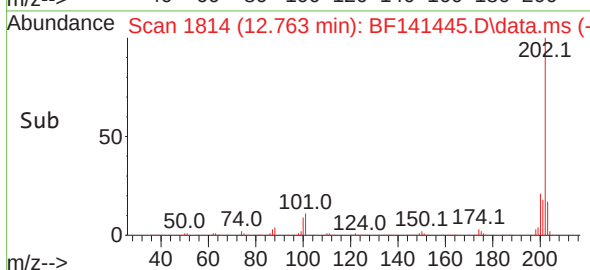
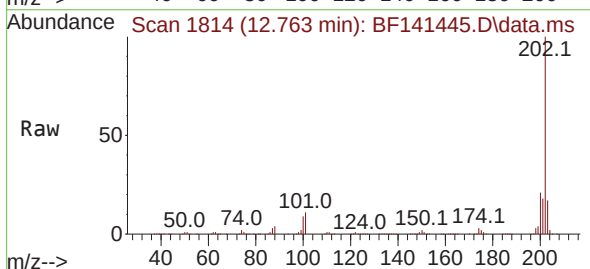
Manual Integrations
APPROVED

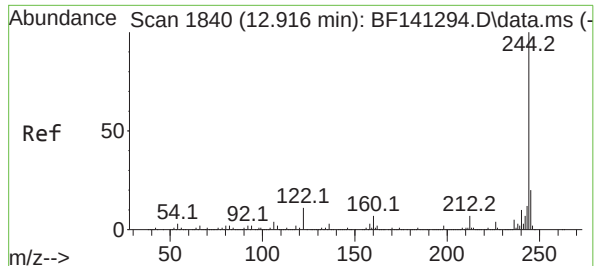
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#78
Pyrene
Concen: 46.054 ng
RT: 12.763 min Scan# 1814
Delta R.T. -0.006 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

Tgt Ion:202 Resp: 800870
Ion Ratio Lower Upper
202 100
200 21.2 17.0 25.4
203 17.5 14.3 21.5





#79

Terphenyl-d14

Concen: 95.935 ng

RT: 12.904 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion:244 Resp: 112696

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

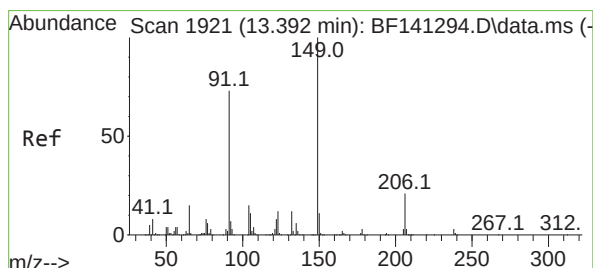
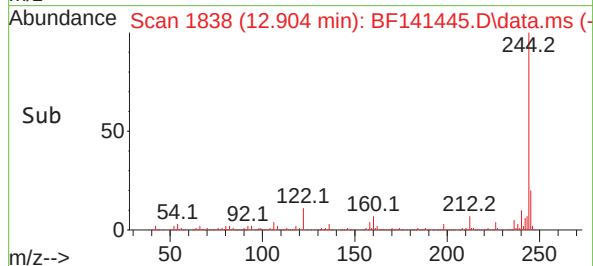
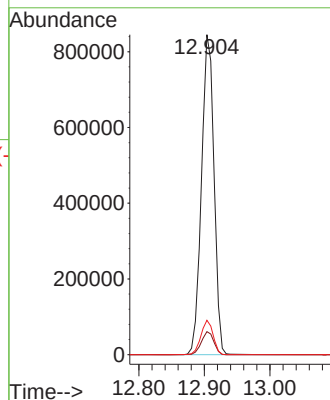
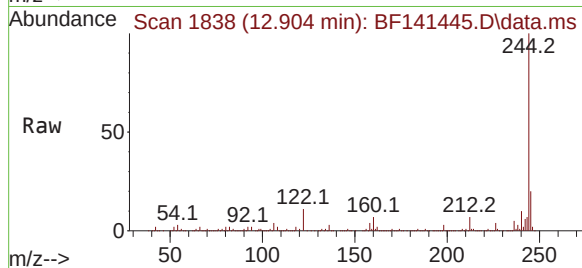
122 10.7 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#80

Butylbenzylphthalate

Concen: 50.851 ng

RT: 13.380 min Scan# 1919

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

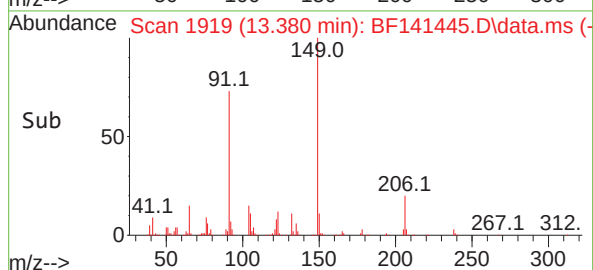
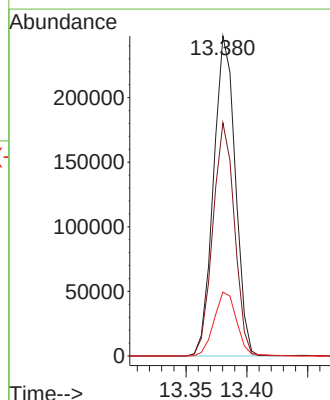
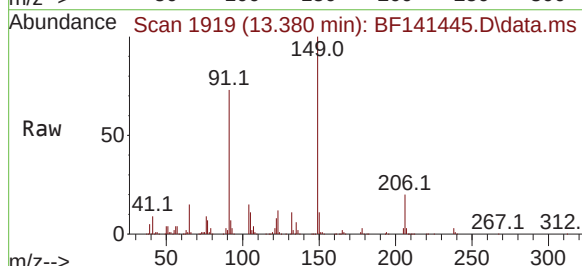
Tgt Ion:149 Resp: 308931

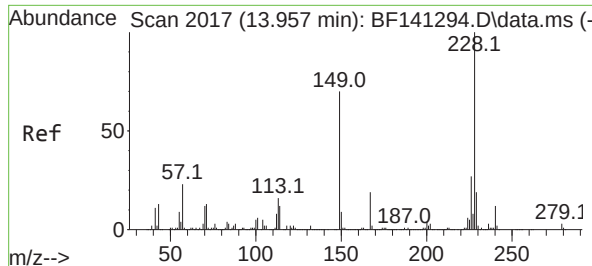
Ion Ratio Lower Upper

149 100

91 72.8 58.6 87.8

206 20.0 16.7 25.1





#81

Benzo(a)anthracene

Concen: 48.156 ng

RT: 13.951 min Scan# 2010

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion:228 Resp: 602014

Ion Ratio Lower Upper

228 100

226 27.2 21.4 32.2

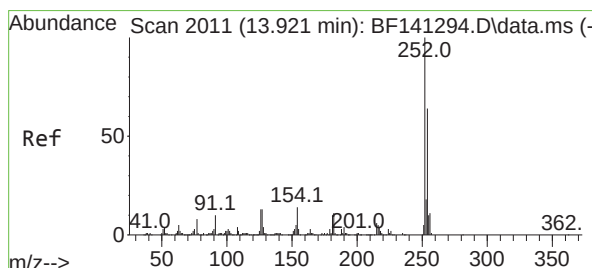
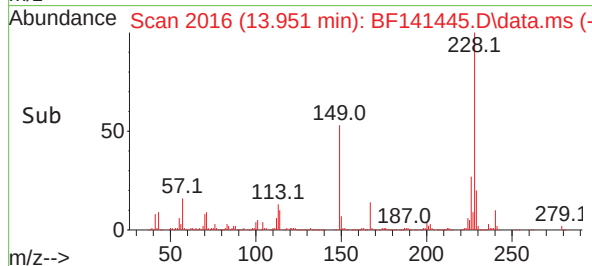
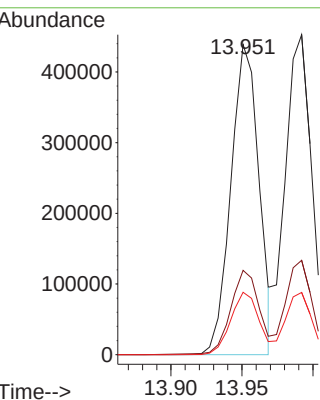
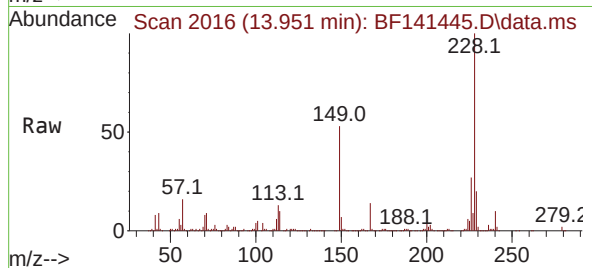
229 20.1 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#82

3,3'-Dichlorobenzidine

Concen: 24.192 ng

RT: 13.916 min Scan# 2010

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

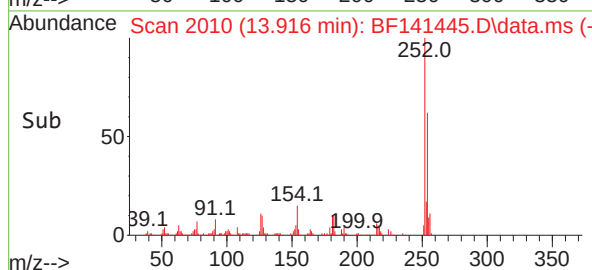
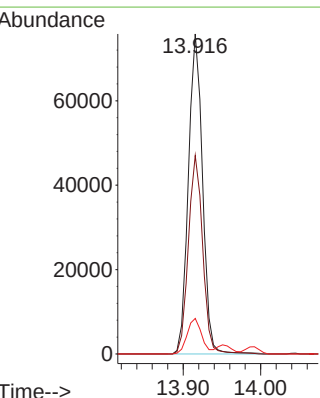
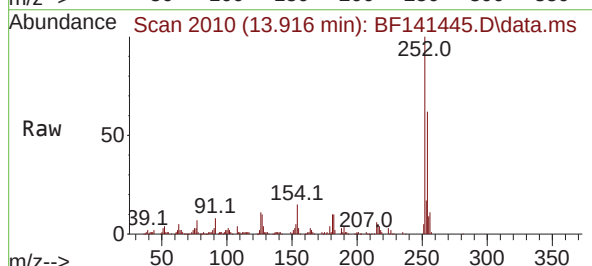
Tgt Ion:252 Resp: 96189

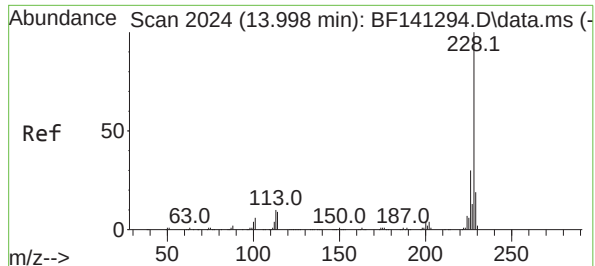
Ion Ratio Lower Upper

252 100

254 62.0 51.3 76.9

126 11.1 10.0 15.0





#83

Chrysene

Concen: 50.991 ng

RT: 13.992 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion:228 Resp: 58420

Ion Ratio Lower Upper

228 100

226 29.5 24.1 36.1

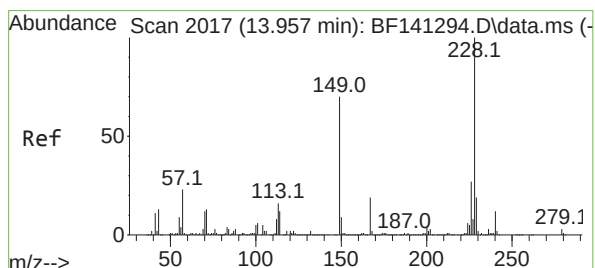
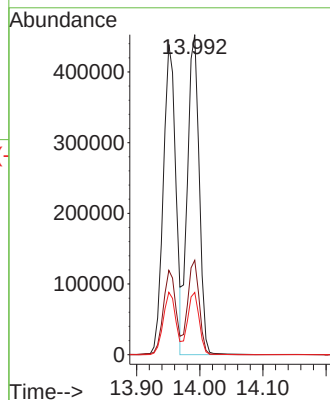
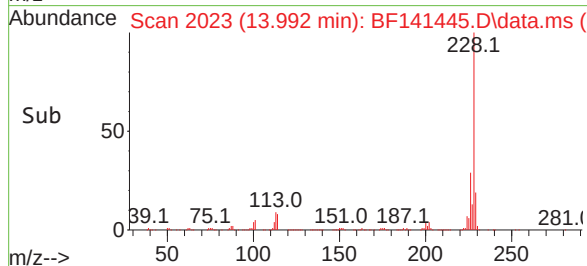
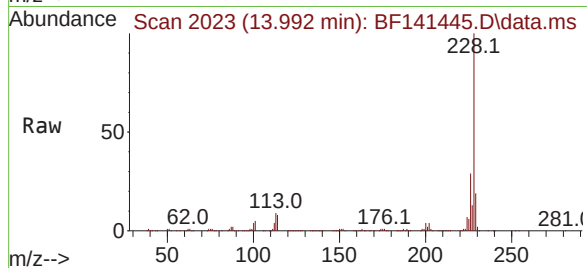
229 19.4 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#84

Bis(2-ethylhexyl)phthalate

Concen: 50.987 ng

RT: 13.945 min Scan# 2015

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

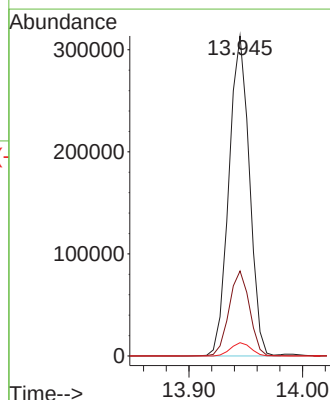
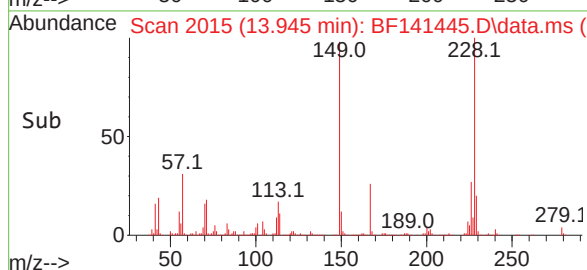
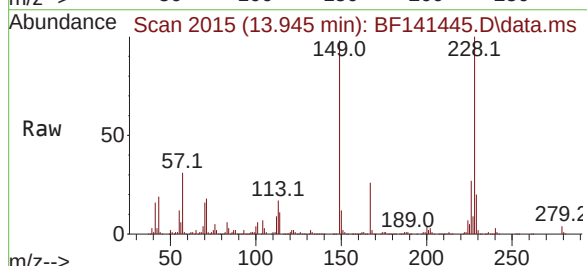
Tgt Ion:149 Resp: 392941

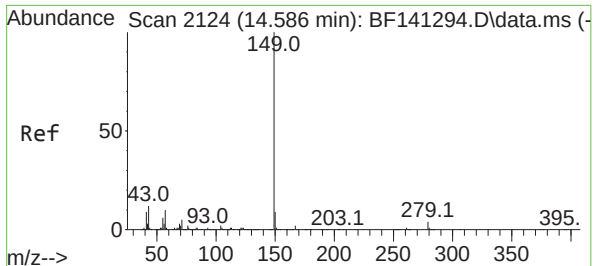
Ion Ratio Lower Upper

149 100

167 26.6 21.8 32.8

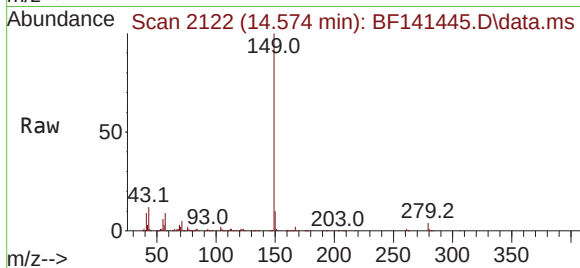
279 4.1 3.3 4.9





#85
Di-n-octyl phthalate
Concen: 49.744 ng
RT: 14.574 min Scan# 2124
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

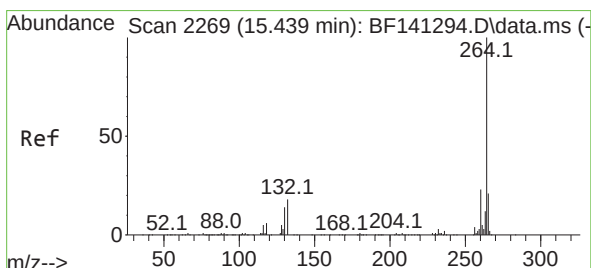
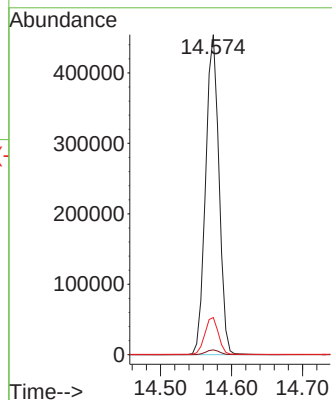
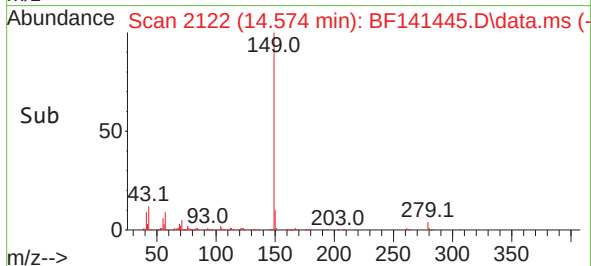
Instrument :
BNA_F
ClientSampleId :
PB166354BS



Tgt Ion:149 Resp: 595439
Ion Ratio Lower Upper
149 100
167 1.5 1.3 1.9
43 11.7 9.8 14.8

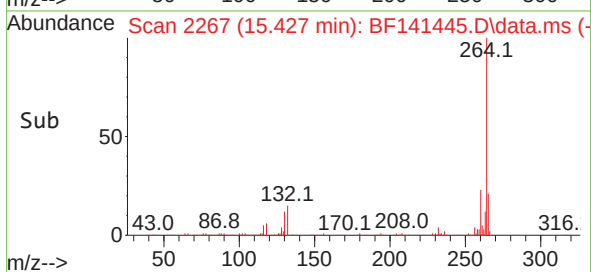
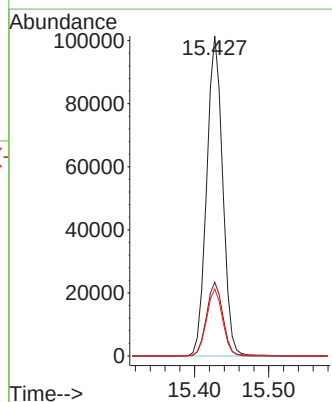
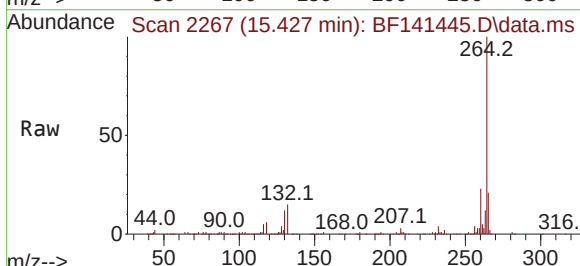
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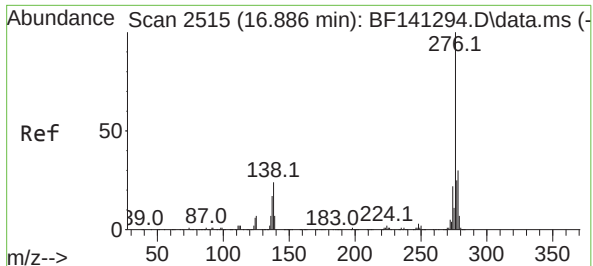
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 2267
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

Tgt Ion:264 Resp: 151994
Ion Ratio Lower Upper
264 100
260 23.1 18.6 27.8
265 21.0 16.7 25.1





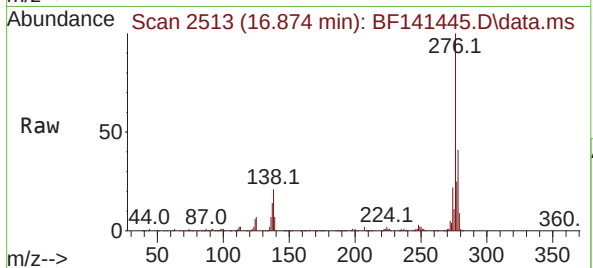
#87
Indeno(1,2,3-cd)pyrene
Concen: 50.047 ng
RT: 16.874 min Scan# 2196
Delta R.T. -0.024 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

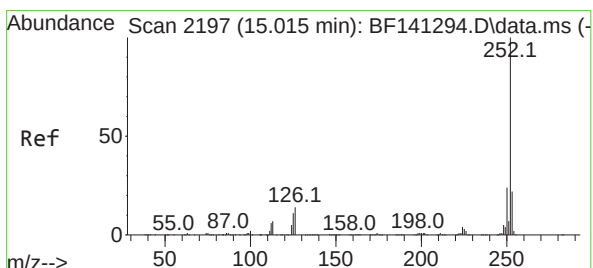
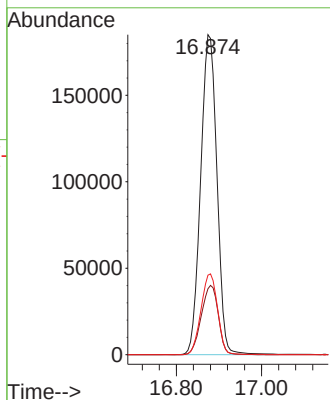
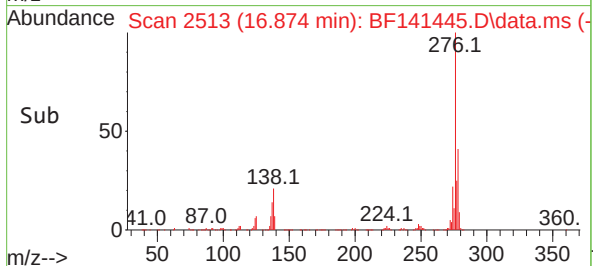
PB166354BS



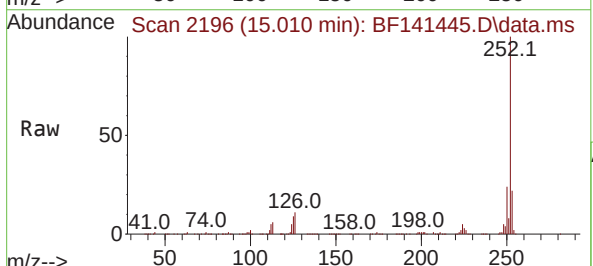
Tgt Ion: 276 Resp: 490962
Ion Ratio Lower Upper
276 100
138 22.5 21.7 32.5
277 25.6 20.3 30.5

Manual Integrations
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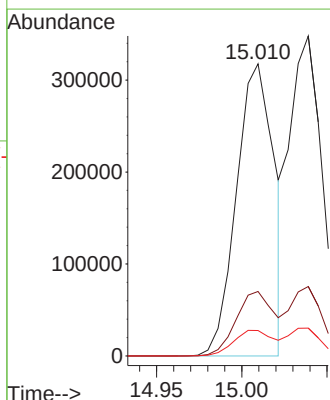
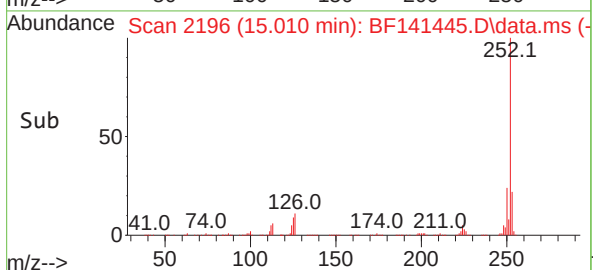
Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025

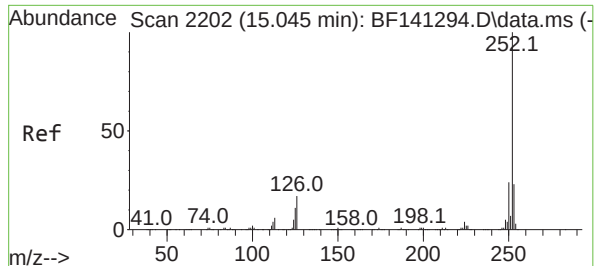


#88
Benzo(b)fluoranthene
Concen: 51.021 ng
RT: 15.010 min Scan# 2196
Delta R.T. -0.012 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24



Tgt Ion: 252 Resp: 487801
Ion Ratio Lower Upper
252 100
253 22.1 17.4 26.2
125 8.7 8.6 12.8





#89

Benzo(k)fluoranthene

Concen: 54.783 ng

RT: 15.039 min Scan# 21

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

ClientSampleId :

PB166354BS

Tgt Ion:252 Resp: 46400

Ion Ratio Lower Upper

252 100

253 21.7 17.6 26.4

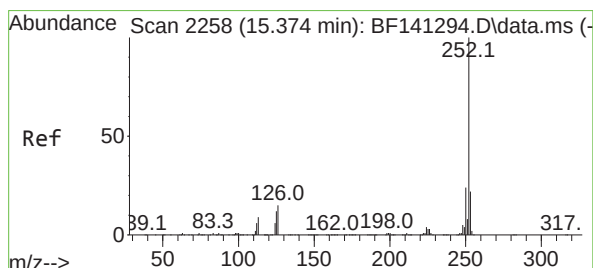
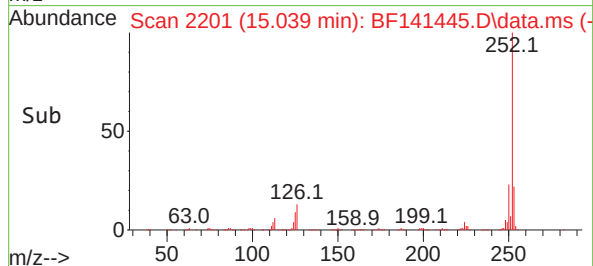
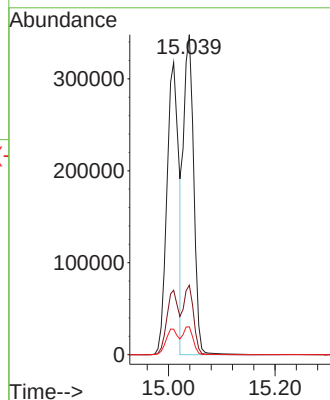
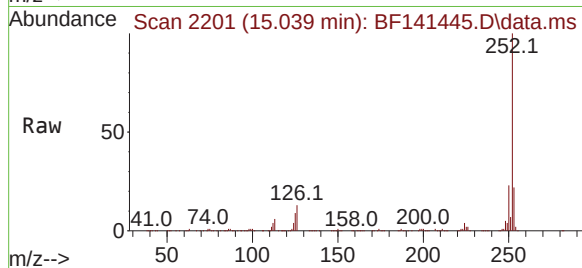
125 8.7 8.4 12.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 02/06/2025

Supervised By :mohammad ahmed 02/06/2025



#90

Benzo(a)pyrene

Concen: 54.432 ng

RT: 15.368 min Scan# 2257

Delta R.T. -0.012 min

Lab File: BF141445.D

Acq: 05 Feb 2025 14:24

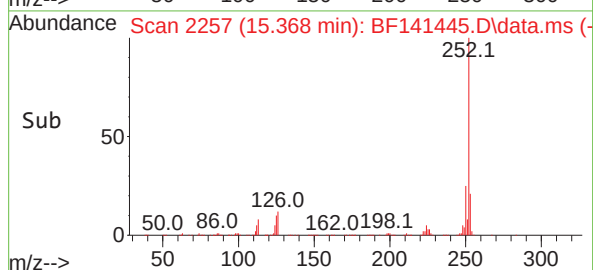
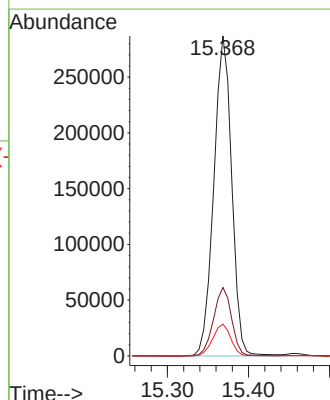
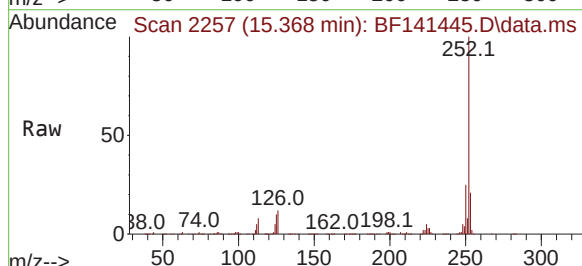
Tgt Ion:252 Resp: 439777

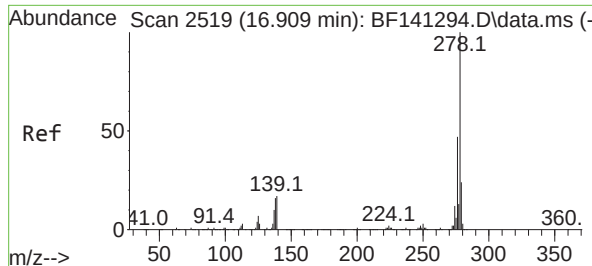
Ion Ratio Lower Upper

252 100

253 21.4 17.2 25.8

125 9.9 9.4 14.2





#91
Dibenzo(a,h)anthracene
Concen: 50.062 ng
RT: 16.892 min Scan# 2516
Delta R.T. -0.030 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

Instrument :

BNA_F

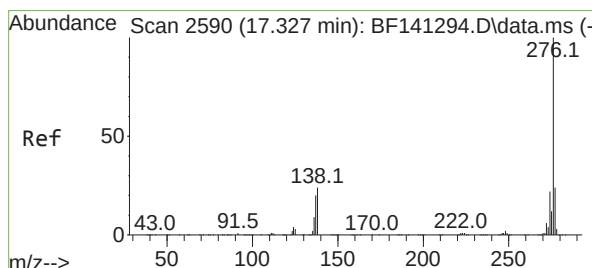
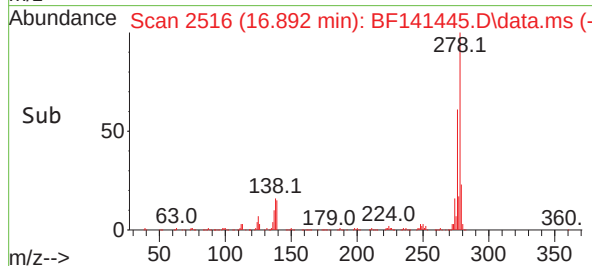
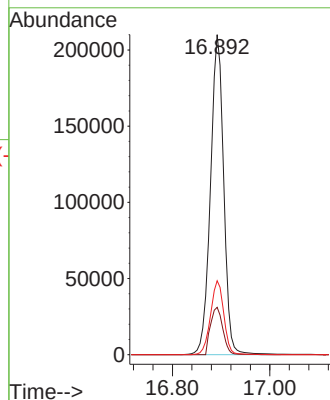
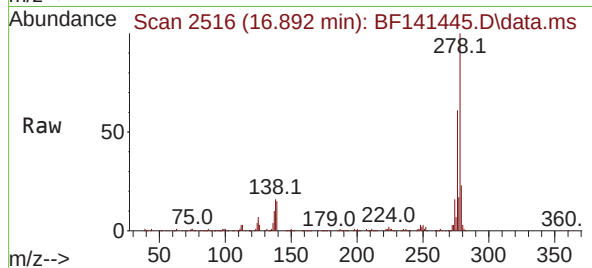
ClientSampleId :

PB166354BS

Tgt Ion	Ratio	Lower	Upper
278	100		
139	14.8	13.9	20.9
279	23.1	18.8	28.2

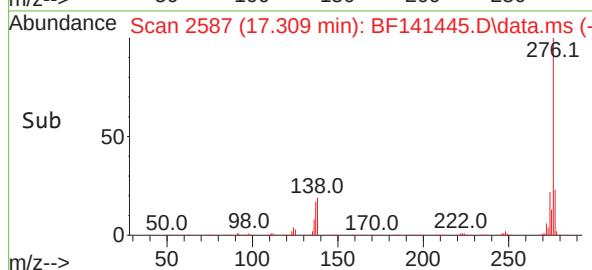
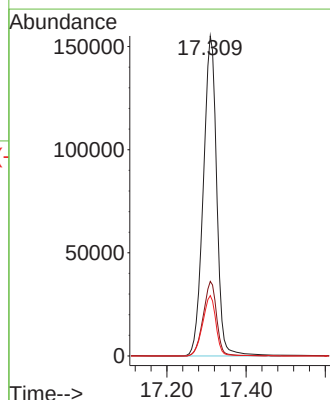
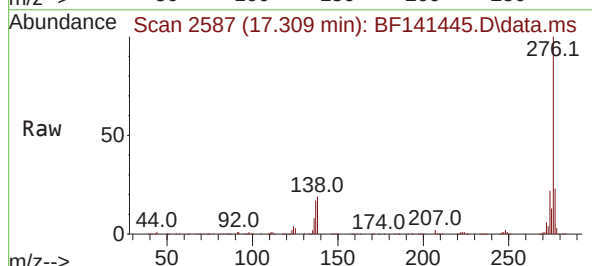
Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 02/06/2025
Supervised By :mohammad ahmed 02/06/2025



#92
Benzo(g,h,i)perylene
Concen: 44.481 ng
RT: 17.309 min Scan# 2587
Delta R.T. -0.035 min
Lab File: BF141445.D
Acq: 05 Feb 2025 14:24

Tgt Ion	Ratio	Lower	Upper
276	100		
277	23.3	19.2	28.8
138	18.8	19.0	28.4



Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	VNJ-236MS	SDG No.:	Q1207
Lab Sample ID:	Q1205-02MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141347.D	1	01/29/25 12:35	01/31/25 22:16	PB166354

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	240		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	370		8.40	50.0	ug/L
95-48-7	2-Methylphenol	430		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	480		11.5	100	ug/L
67-72-1	Hexachloroethane	380		10.1	50.0	ug/L
98-95-3	Nitrobenzene	420		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	400		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	470		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	470		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	450		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	490		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	940	E	18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	125		10 - 139	84%	SPK: 150
13127-88-3	Phenol-d6	121		10 - 134	81%	SPK: 150
4165-60-0	Nitrobenzene-d5	89.2		49 - 133	89%	SPK: 100
321-60-8	2-Fluorobiphenyl	86.4		52 - 132	86%	SPK: 100
118-79-6	2,4,6-Tribromophenol	126		44 - 137	84%	SPK: 150
1718-51-0	Terphenyl-d14	75.4		48 - 125	75%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	143000		6.798		
1146-65-2	Naphthalene-d8	564000		8.081		
15067-26-2	Acenaphthene-d10	295000		9.839		
1517-22-2	Phenanthrene-d10	432000		11.327		
1719-03-5	Chrysene-d12	276000		13.968		
1520-96-3	Perylene-d12	282000		15.421		

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	VNJ-236MS	SDG No.:	Q1207
Lab Sample ID:	Q1205-02MS	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141347.D	1	01/29/25 12:35	01/31/25 22:16	PB166354

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\BF013125\
 Data File : BF141347.D
 Acq On : 31 Jan 2025 22:16
 Operator : RC/JU
 Sample : Q1205-02MS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VNJ-236MS

Manual Integrations APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
 Supervised By :mohammad ahmed 02/04/2025

Quant Time: Feb 01 00:03:46 2025
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Jan 29 17:41:25 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	142849	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	564006	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	294756	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	431674	20.000	ng	0.00
76) Chrysene-d12	13.968	240	275611	20.000	ng	0.00
86) Perylene-d12	15.421	264	282127	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	1166028	125.313	ng	0.02
7) Phenol-d6	6.445	99	1434610	121.197	ng	0.00
23) Nitrobenzene-d5	7.363	82	954313	89.198	ng	0.00
42) 2,4,6-Tribromophenol	10.633	330	339916	125.791	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	1655154	86.431	ng	0.00
79) Terphenyl-d14	12.916	244	1347557	75.403	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.687	88	145635	35.588	ng	# 83
3) Pyridine	3.387	79	232271	23.557	ng	99
4) n-Nitrosodimethylamine	3.310	42	234667	41.662	ng	99
6) Aniline	6.469	93	119203	11.897	ng	# 1
8) 2-Chlorophenol	6.592	128	446696	44.790	ng	98
9) Benzaldehyde	6.351	77	18708	2.729	ng	99
10) Phenol	6.457	94	520602	41.489	ng	92
11) bis(2-Chloroethyl)ether	6.539	93	428566	44.545	ng	98
12) 1,3-Dichlorobenzene	6.739	146	411312	37.404	ng	100
13) 1,4-Dichlorobenzene	6.816	146	411037	37.208	ng	100
14) 1,2-Dichlorobenzene	6.969	146	399916	38.660	ng	99
15) Benzyl Alcohol	6.945	79	384332	47.511	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.075	45	689709	41.226	ng	49
17) 2-Methylphenol	7.069	107	351328	43.344	ng	# 88
18) Hexachloroethane	7.310	117	155897	38.254	ng	99
19) n-Nitroso-di-n-propyla...	7.216	70	312600	44.444	ng	97
20) 3+4-Methylphenols	7.222	107	474928	47.720	ng	# 77
22) Acetophenone	7.210	105	607354	45.303	ng	# 93
24) Nitrobenzene	7.386	77	461964	41.666	ng	98
25) Isophorone	7.622	82	859945	46.499	ng	98
26) 2-Nitrophenol	7.698	139	238004	45.517	ng	98
27) 2,4-Dimethylphenol	7.745	122	366185m	55.019	ng	
28) bis(2-Chloroethoxy)met...	7.834	93	527526	44.718	ng	99
29) 2,4-Dichlorophenol	7.951	162	382994	47.005	ng	100
30) 1,2,4-Trichlorobenzene	8.022	180	367470	39.491	ng	100
31) Naphthalene	8.104	128	1255905	42.152	ng	100
32) Benzoic acid	7.875	122	294524	48.138	ng	99
33) 4-Chloroaniline	8.157	127	57067	5.648	ng	99
34) Hexachlorobutadiene	8.222	225	217440	39.847	ng	100
35) Caprolactam	8.522	113	112426m	42.249	ng	
36) 4-Chloro-3-methylphenol	8.651	107	399006	45.654	ng	98
37) 2-Methylnaphthalene	8.792	142	833174	43.997	ng	98
38) 1-Methylnaphthalene	8.892	142	780629	41.964	ng	99
40) 1,2,4,5-Tetrachloroben...	8.963	216	371956	44.357	ng	99
41) Hexachlorocyclopentadiene	8.945	237	383981	155.052	ng	99
43) 2,4,6-Trichlorophenol	9.081	196	259699	47.316	ng	100

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
 Data File : BF141347.D
 Acq On : 31 Jan 2025 22:16
 Operator : RC/JU
 Sample : Q1205-02MS
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
 Supervised By :mohammad ahmed 02/04/2025

Quant Time: Feb 01 00:03:46 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 17:41:25 2025

Response via : Initial Calibration

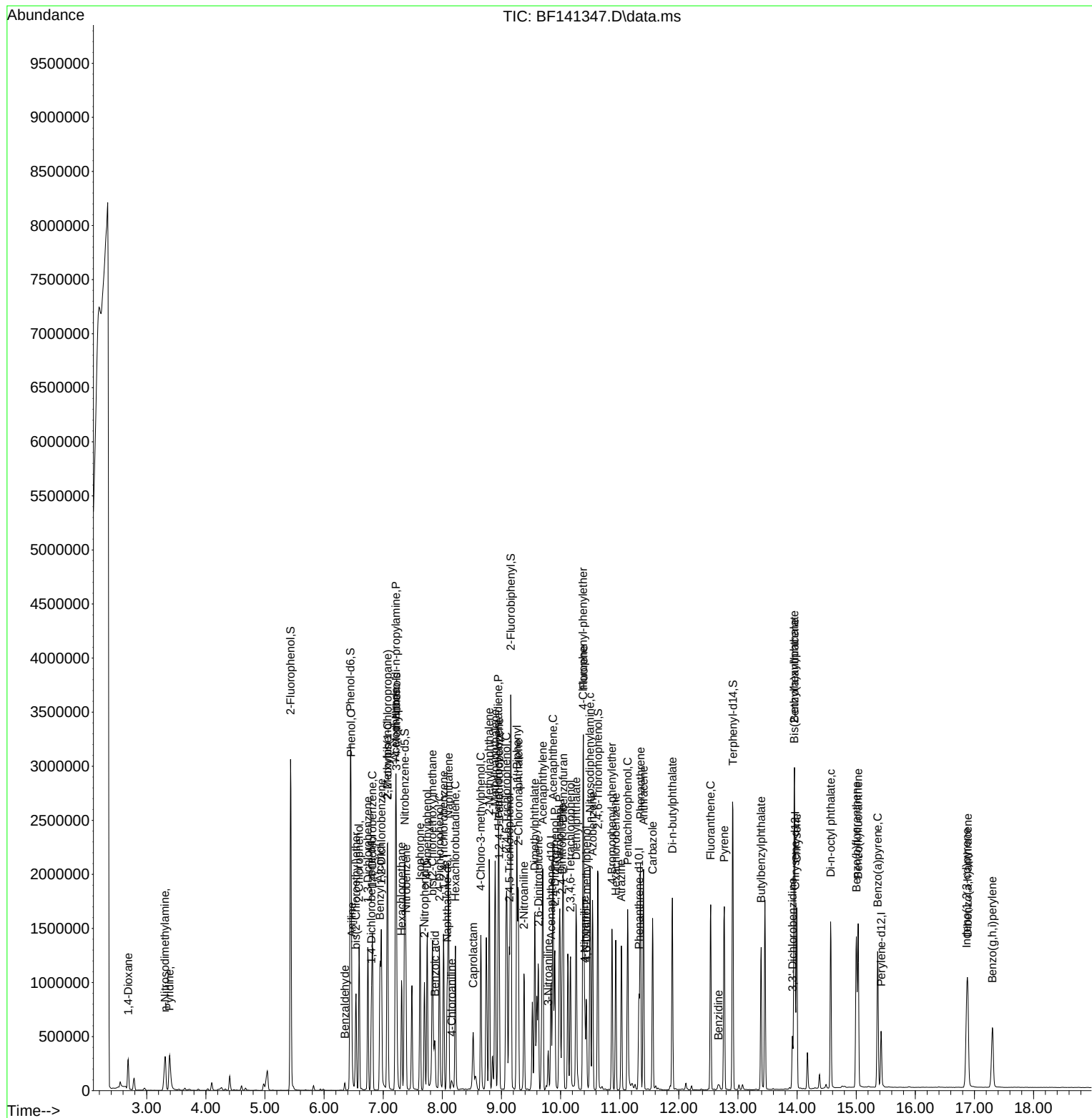
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.133	196	278164	46.565	ng	99
46) 1,1'-Biphenyl	9.263	154	1031667	44.880	ng	99
47) 2-Chloronaphthalene	9.286	162	772138	43.094	ng	99
48) 2-Nitroaniline	9.380	65	266013	47.201	ng	95
49) Acenaphthylene	9.698	152	1195542	47.667	ng	100
50) Dimethylphthalate	9.563	163	962538	48.350	ng	99
51) 2,6-Dinitrotoluene	9.628	165	207612	44.915	ng	97
52) Acenaphthene	9.875	154	902474m	50.367	ng	
53) 3-Nitroaniline	9.792	138	76661	16.922	ng	99
54) 2,4-Dinitrophenol	9.904	184	244109	113.607	ng	98
55) Dibenzofuran	10.045	168	1077353	44.919	ng	100
56) 4-Nitrophenol	9.980	139	257968	77.860	ng	97
57) 2,4-Dinitrotoluene	10.028	165	270812	45.251	ng	98
58) Fluorene	10.386	166	812642	43.681	ng	100
59) 2,3,4,6-Tetrachlorophenol	10.169	232	228963	48.719	ng	99
60) Diethylphthalate	10.263	149	905433	46.907	ng	100
61) 4-Chlorophenyl-phenyle...	10.380	204	397038	43.690	ng	99
62) 4-Nitroaniline	10.410	138	172930	38.826	ng	99
63) Azobenzene	10.539	77	878229	45.453	ng	100
65) 4,6-Dinitro-2-methylph...	10.439	198	155826	61.028	ng	96
66) n-Nitrosodiphenylamine	10.498	169	727951	52.138	ng	100
67) 4-Bromophenyl-phenylether	10.869	248	251233	51.986	ng	98
68) Hexachlorobenzene	10.933	284	252115	49.180	ng	99
69) Atrazine	11.027	200	221530	47.456	ng	99
70) Pentachlorophenol	11.133	266	283284	94.369	ng	100
71) Phenanthrene	11.351	178	1112890	47.961	ng	100
72) Anthracene	11.404	178	1128306	49.626	ng	100
73) Carbazole	11.557	167	891423	44.216	ng	100
74) Di-n-butylphthalate	11.892	149	1223292	50.069	ng	100
75) Fluoranthene	12.539	202	975087	42.559	ng	100
77) Benzidine	12.669	184	35282	3.993	ng	99
78) Pyrene	12.769	202	980862	37.075	ng	99
80) Butylbenzylphthalate	13.392	149	413143	44.700	ng	99
81) Benzo(a)anthracene	13.957	228	834678	43.887	ng	99
82) 3,3'-Dichlorobenzidine	13.921	252	143745	23.764	ng	100
83) Chrysene	13.992	228	831201	47.688	ng	99
84) Bis(2-ethylhexyl)phtha...	13.951	149	548126	46.750	ng	99
85) Di-n-octyl phthalate	14.568	149	995798	54.682	ng	99
87) Indeno(1,2,3-cd)pyrene	16.868	276	690868	37.941	ng	100
88) Benzo(b)fluoranthene	15.004	252	858391	48.369	ng	100
89) Benzo(k)fluoranthene	15.033	252	841197	53.507	ng	100
90) Benzo(a)pyrene	15.362	252	772098	51.485	ng	99
91) Dibenzo(a,h)anthracene	16.886	278	562028	38.364	ng	98
92) Benzo(g,h,i)perylene	17.304	276	503231	33.036	ng	99

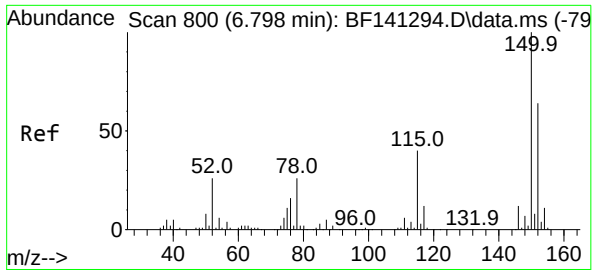
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Instrument :
BNA_F
ClientSampleId :
VNJ-236MS

Manual Integrations APPROVED

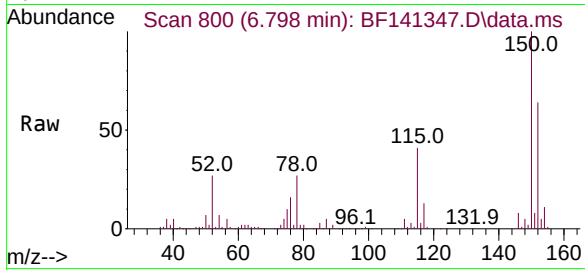
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 80
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

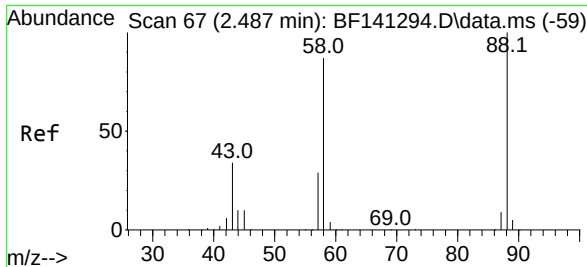
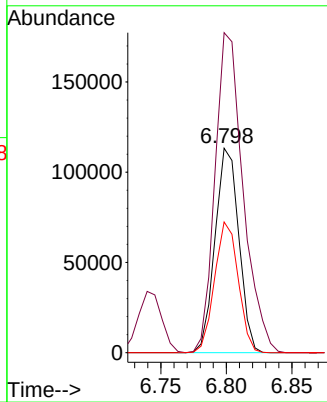
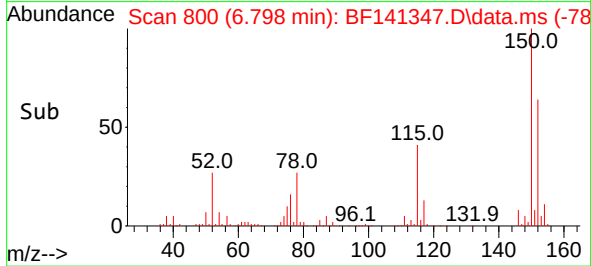
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



Tgt Ion:152 Resp: 142849
Ion Ratio Lower Upper
152 100
150 156.5 125.9 188.9
115 63.9 49.7 74.5

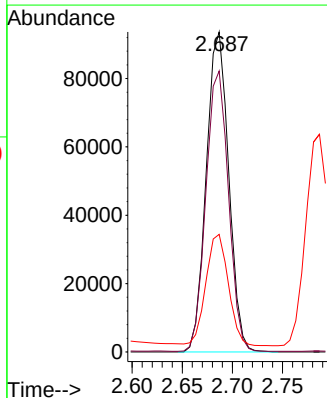
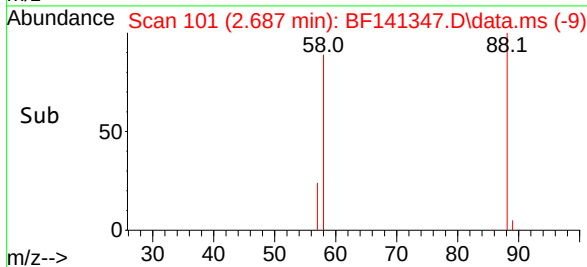
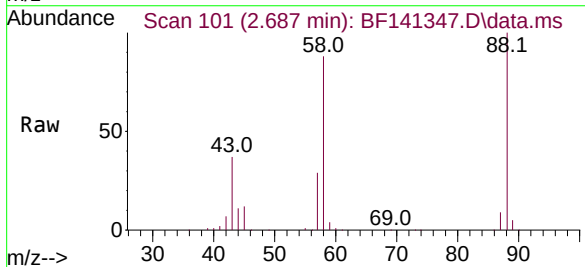
Manual Integrations
APPROVED

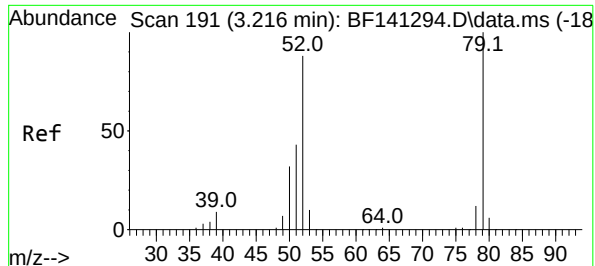
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#2
1,4-Dioxane
Concen: 35.588 ng
RT: 2.687 min Scan# 101
Delta R.T. 0.194 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

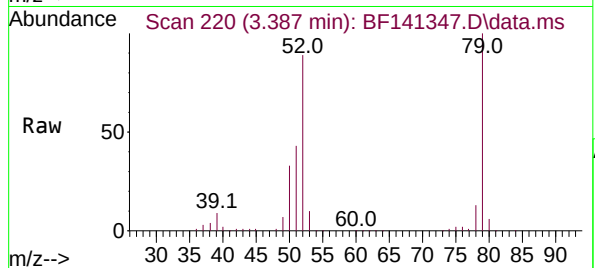
Tgt Ion: 88 Resp: 145635
Ion Ratio Lower Upper
88 100
58 88.1 70.2 105.4
43 0.0 27.6 41.4





#3
Pyridine
Concen: 23.557 ng
RT: 3.387 min Scan# 21
Delta R.T. 0.159 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

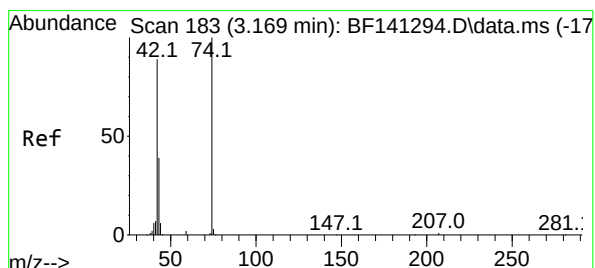
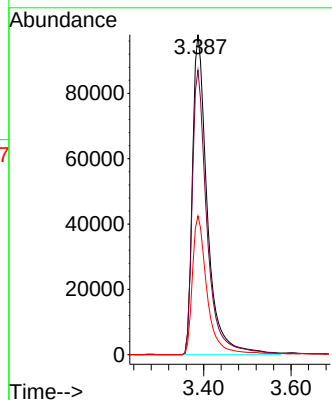
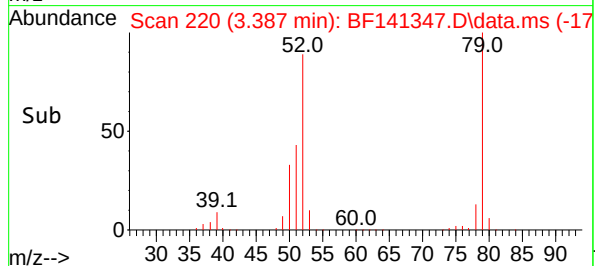
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



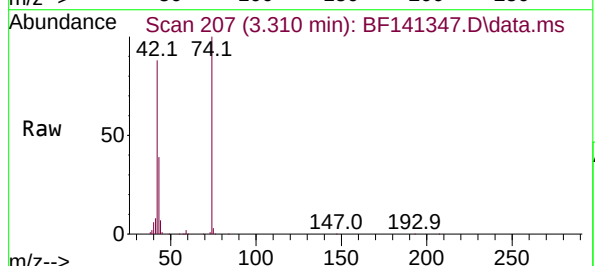
Tgt Ion: 79 Resp: 23227
Ion Ratio Lower Upper
79 100
52 88.9 70.3 105.5
51 43.4 34.3 51.5

Manual Integrations
APPROVED

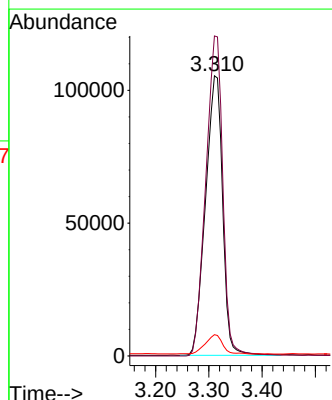
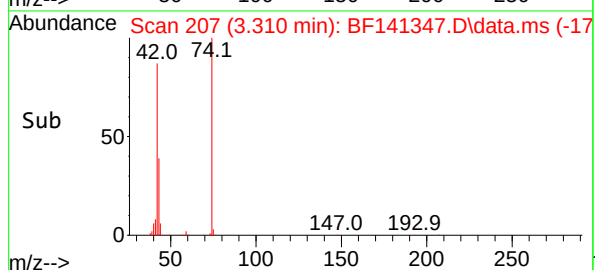
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

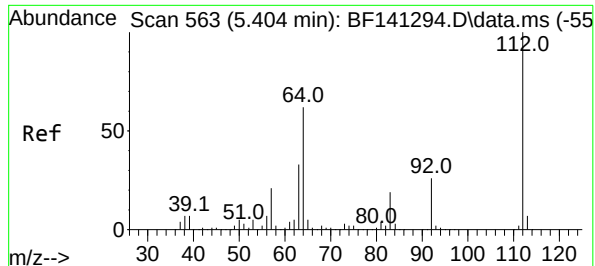


#4
n-Nitrosodimethylamine
Concen: 41.662 ng
RT: 3.310 min Scan# 207
Delta R.T. 0.112 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16



Tgt Ion: 42 Resp: 234667
Ion Ratio Lower Upper
42 100
74 114.2 90.3 135.5
44 7.6 5.7 8.5





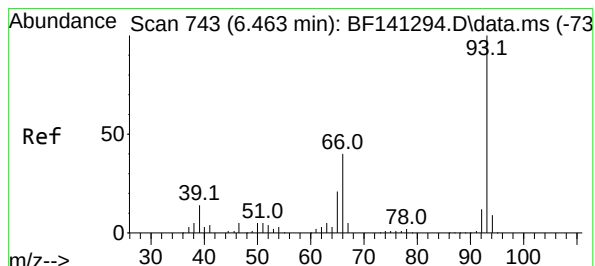
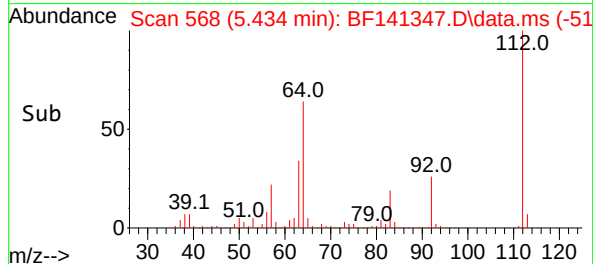
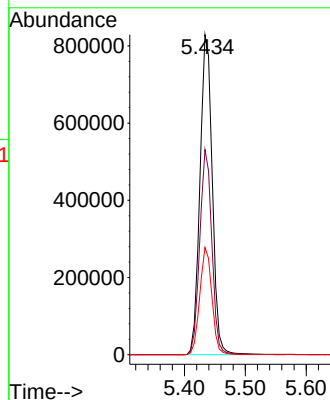
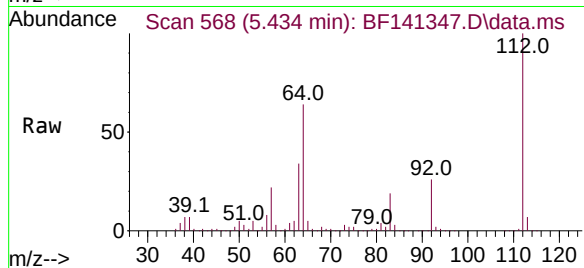
#5
2-Fluorophenol
Concen: 125.313 ng
RT: 5.434 min Scan# 50
Delta R.T. 0.023 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

Instrument :
BNA_F
ClientSampleId :
VNJ-236MS

Tgt Ion:112 Resp: 1166028
Ion Ratio Lower Upper
112 100
64 64.1 49.8 74.8
63 33.5 26.1 39.1

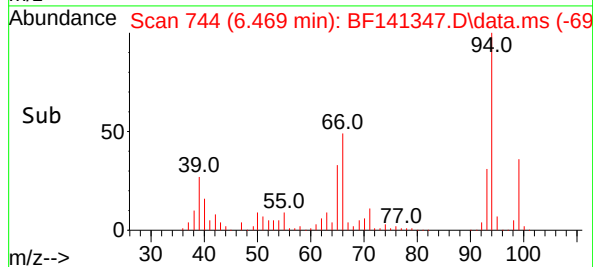
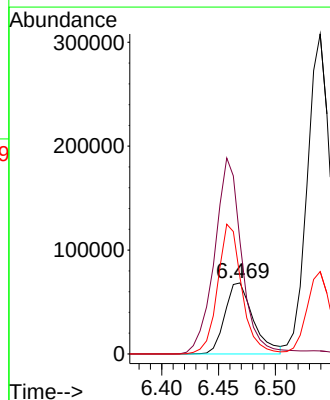
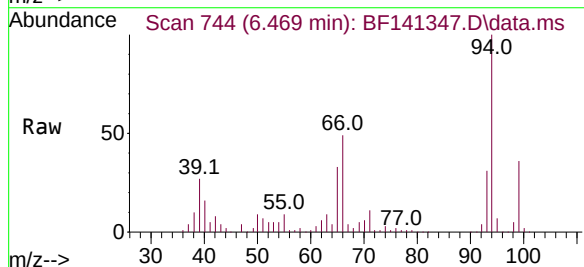
Manual Integrations
APPROVED

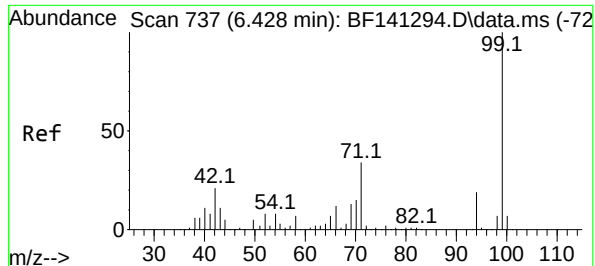
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#6
Aniline
Concen: 11.897 ng
RT: 6.469 min Scan# 744
Delta R.T. -0.000 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

Tgt Ion: 93 Resp: 119203
Ion Ratio Lower Upper
93 100
66 157.3 32.5 48.7#
65 107.0 17.0 25.6#





#7

Phenol-d6

Concen: 121.197 ng

RT: 6.445 min Scan# 740

Delta R.T. 0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion: 99 Resp: 1434610

Ion Ratio Lower Upper

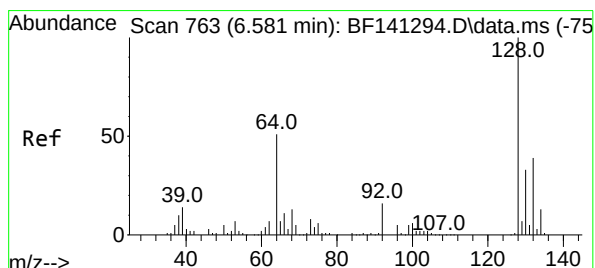
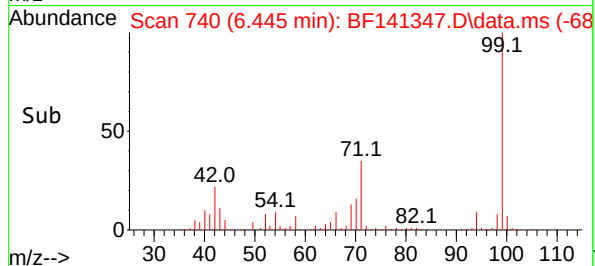
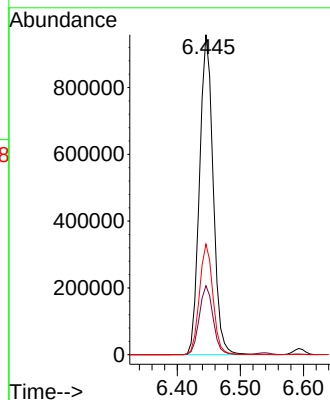
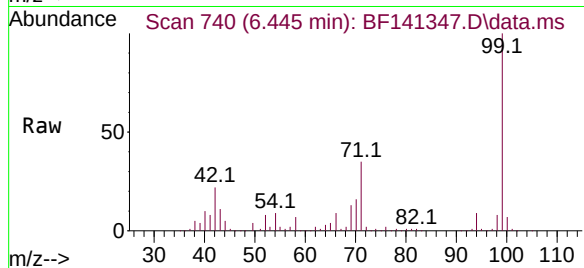
99 100

42 21.6 17.1 25.7

71 34.5 26.9 40.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#8

2-Chlorophenol

Concen: 44.790 ng

RT: 6.592 min Scan# 765

Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

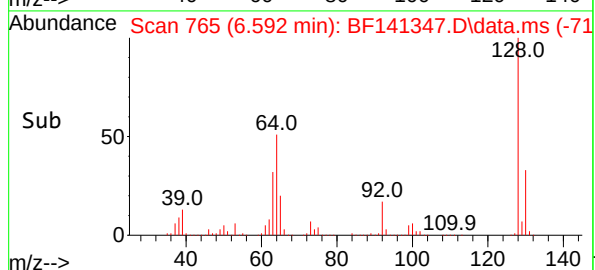
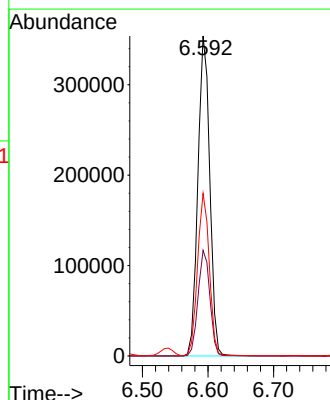
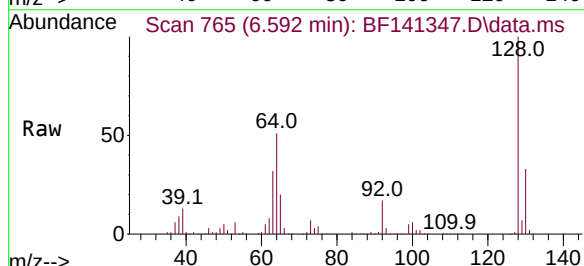
Tgt Ion:128 Resp: 446696

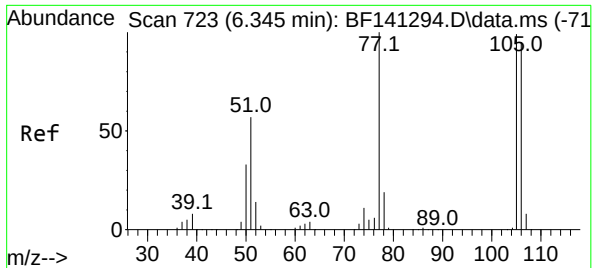
Ion Ratio Lower Upper

128 100

130 33.0 12.5 52.5

64 50.8 32.9 72.9





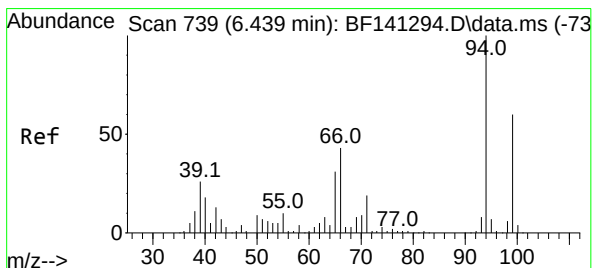
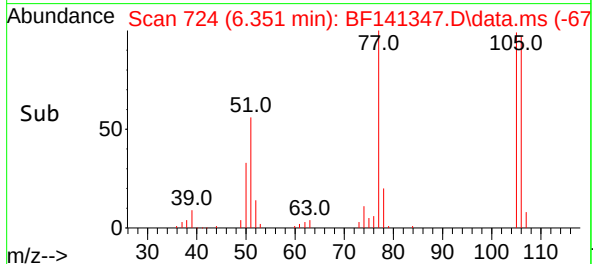
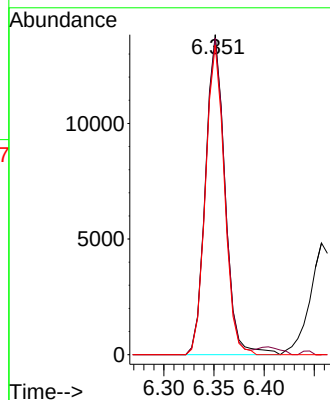
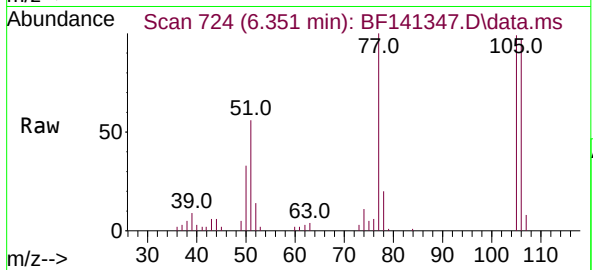
#9
Benzaldehyde
Concen: 2.729 ng
RT: 6.351 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

Instrument :
BNA_F
ClientSampleId :
VNJ-236MS

Tgt Ion: 77 Resp: 18708
Ion Ratio Lower Upper
77 100
105 98.9 79.4 119.4
106 96.7 74.6 114.6

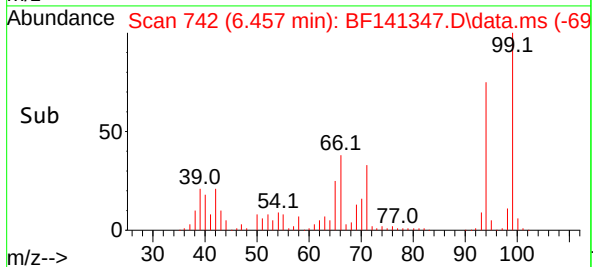
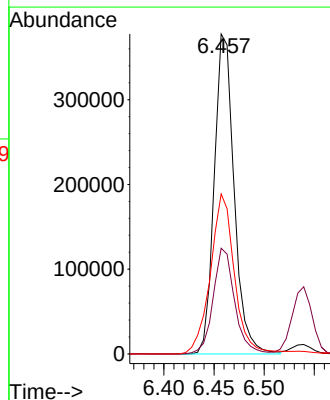
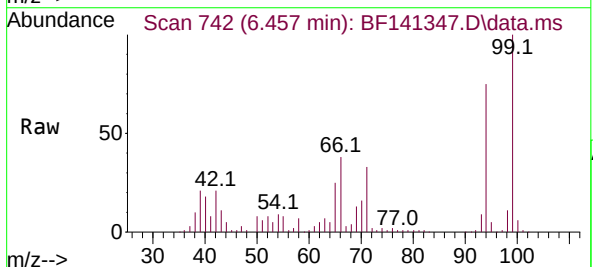
Manual Integrations
APPROVED

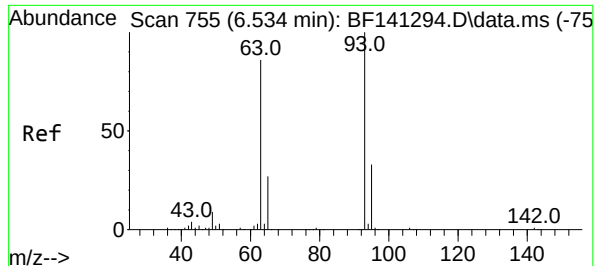
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#10
Phenol
Concen: 41.489 ng
RT: 6.457 min Scan# 742
Delta R.T. 0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

Tgt Ion: 94 Resp: 520602
Ion Ratio Lower Upper
94 100
65 33.1 10.8 50.8
66 50.0 23.3 63.3





#11

bis(2-Chloroethyl)ether

Concen: 44.545 ng

RT: 6.539 min Scan# 755

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion: 93 Resp: 428560

Ion Ratio Lower Upper

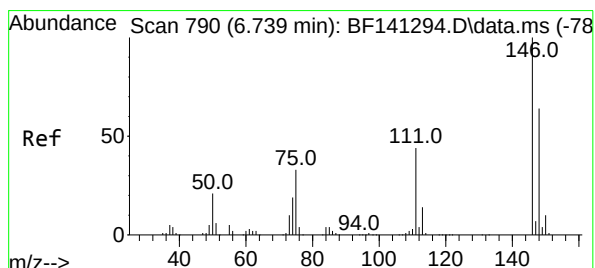
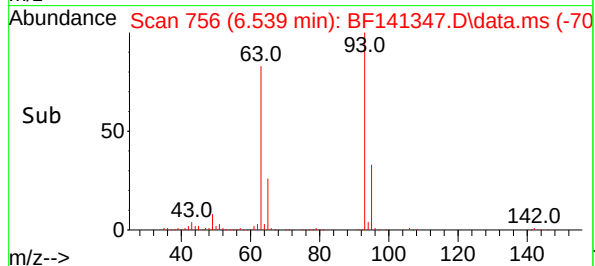
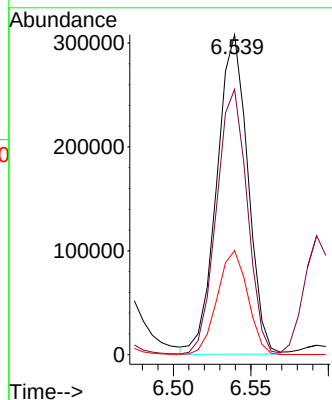
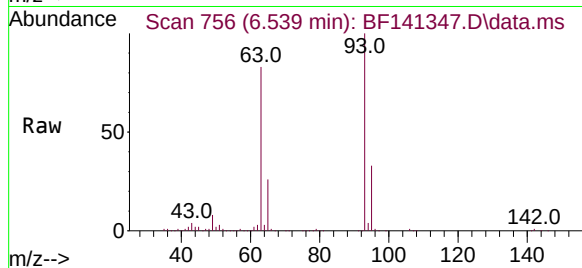
93 100

63 83.0 65.0 105.0

95 32.5 12.4 52.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#12

1,3-Dichlorobenzene

Concen: 37.404 ng

RT: 6.739 min Scan# 790

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

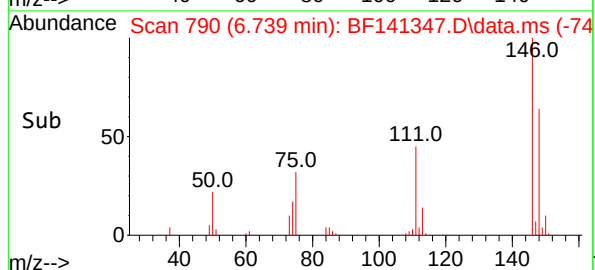
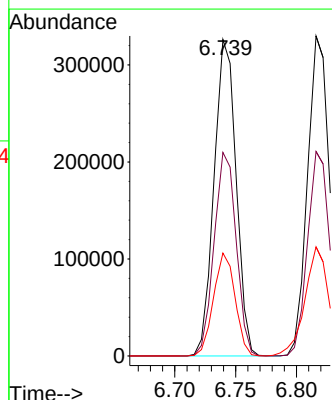
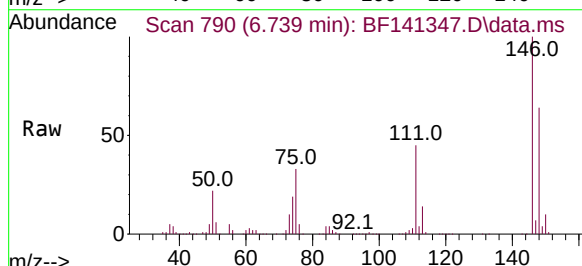
Tgt Ion:146 Resp: 411312

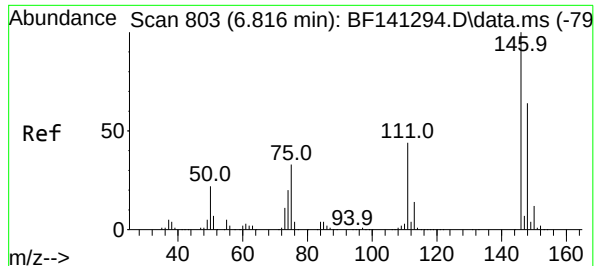
Ion Ratio Lower Upper

146 100

148 64.3 51.2 76.8

75 32.5 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 37.208 ng

RT: 6.816 min Scan# 803

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:146 Resp: 41103

Ion Ratio Lower Upper

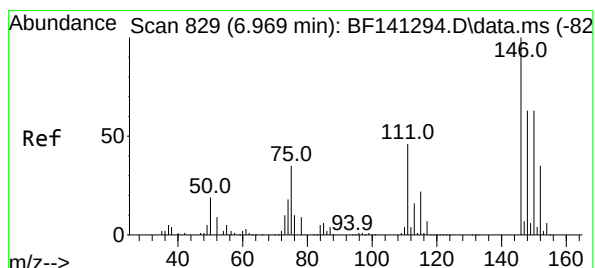
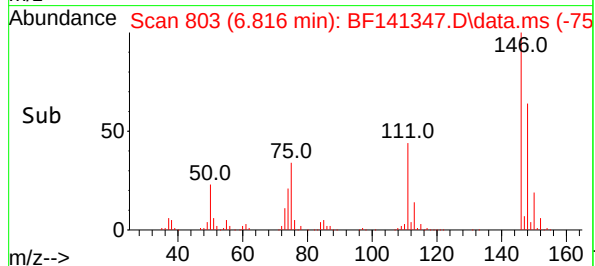
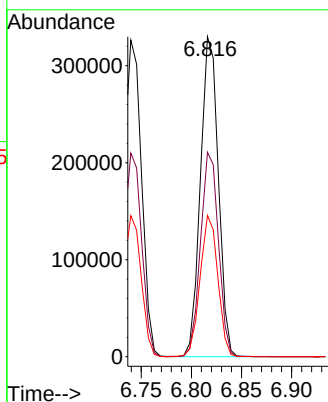
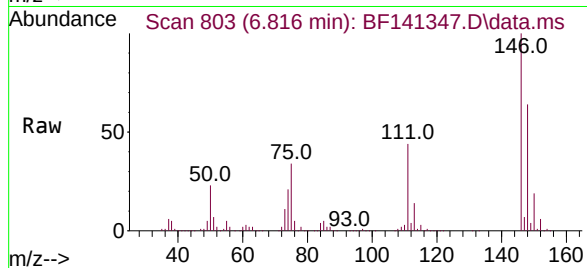
146 100

148 63.9 51.2 76.8

111 44.1 35.0 52.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#14

1,2-Dichlorobenzene

Concen: 38.660 ng

RT: 6.969 min Scan# 829

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

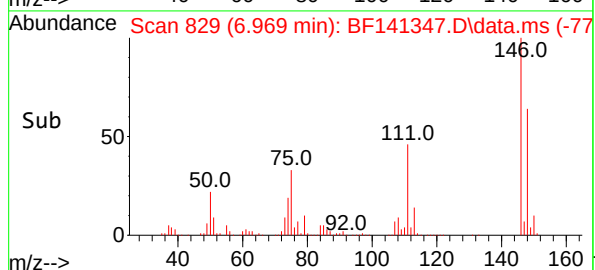
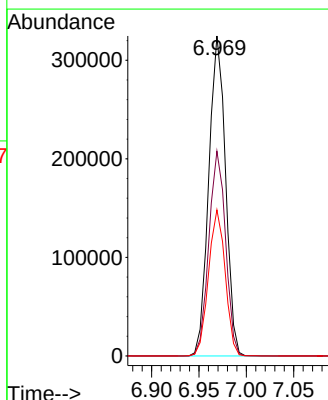
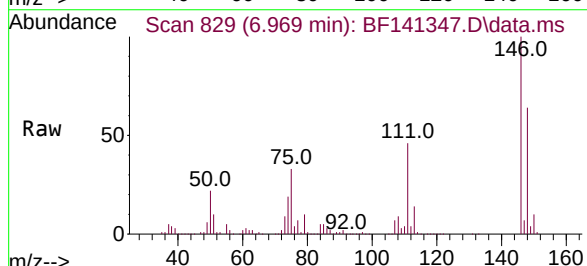
Tgt Ion:146 Resp: 399916

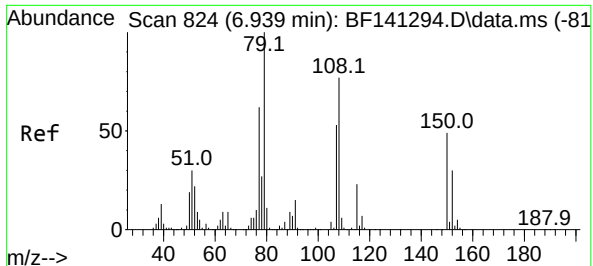
Ion Ratio Lower Upper

146 100

148 64.0 50.5 75.7

111 45.7 36.6 55.0





#15

Benzyl Alcohol

Concen: 47.511 ng

RT: 6.945 min Scan# 81

Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion: 79 Resp: 38433

Ion Ratio Lower Upper

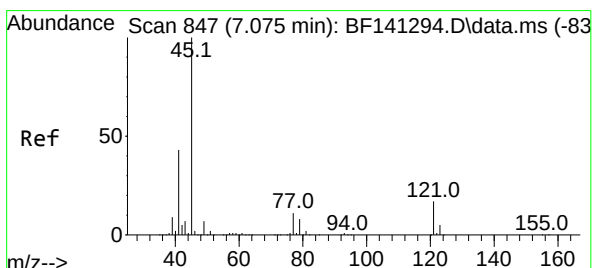
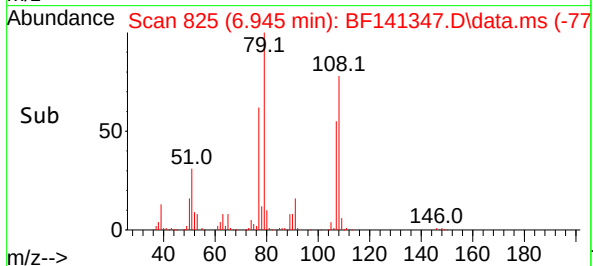
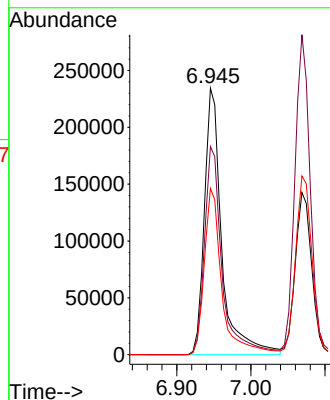
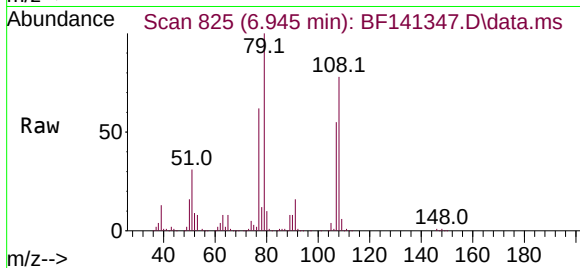
79 100

108 78.1 61.4 92.0

77 62.3 49.9 74.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#16

2,2'-oxybis(1-Chloropropane)

Concen: 41.226 ng

RT: 7.075 min Scan# 847

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

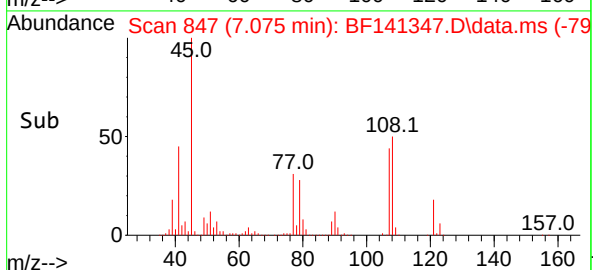
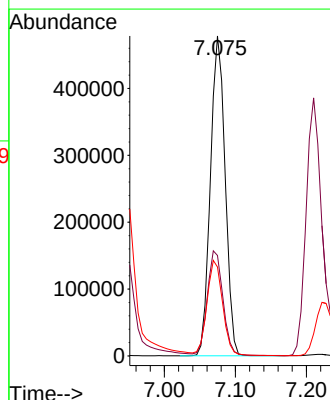
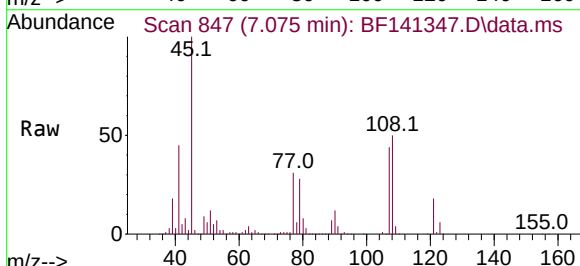
Tgt Ion: 45 Resp: 689709

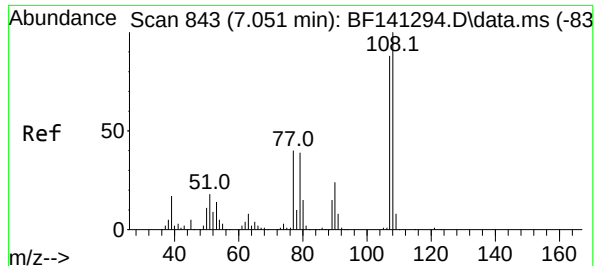
Ion Ratio Lower Upper

45 100

77 31.4 0.0 31.8

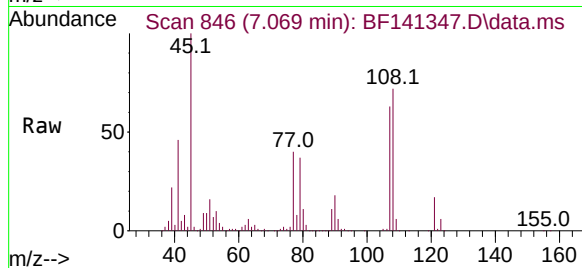
79 27.8 0.0 29.1





#17
2-Methylphenol
Concen: 43.344 ng
RT: 7.069 min Scan# 843
Delta R.T. 0.012 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

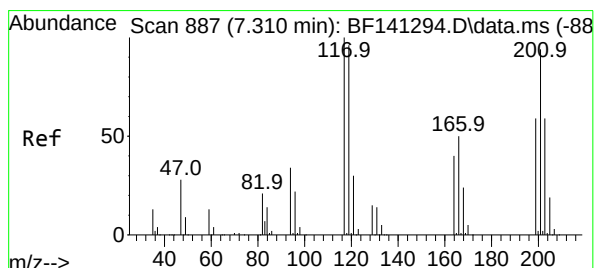
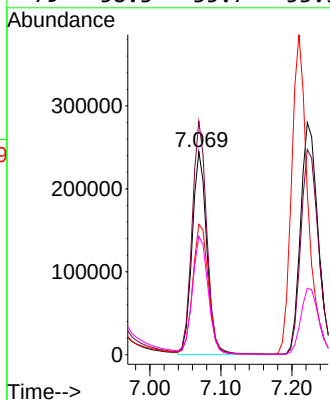
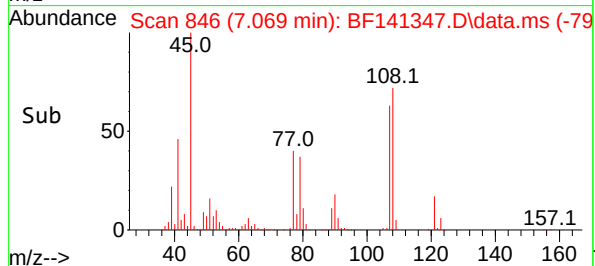
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



Tgt Ion:107 Resp: 351328
Ion Ratio Lower Upper
107 100
108 115.0 90.8 136.2
77 64.2 36.2 54.4
79 58.3 35.7 53.5#

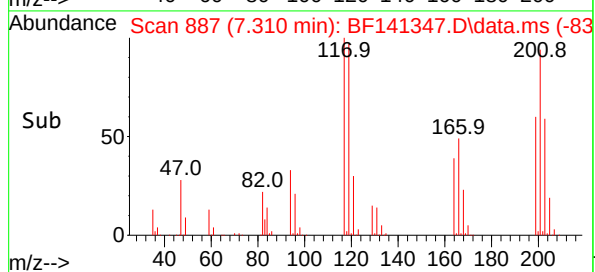
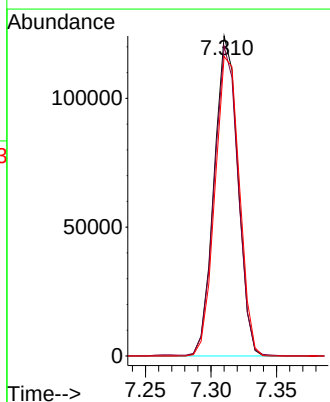
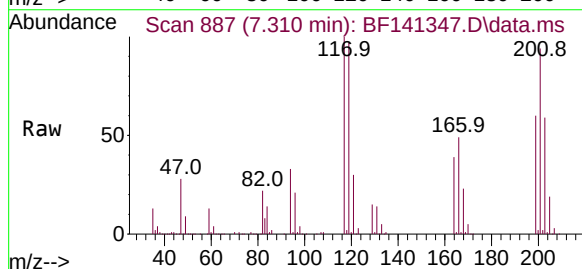
Manual Integrations
APPROVED

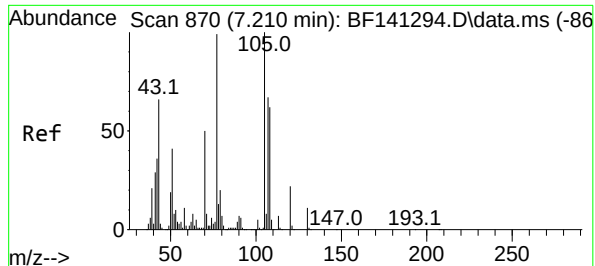
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#18
Hexachloroethane
Concen: 38.254 ng
RT: 7.310 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

Tgt Ion:117 Resp: 155897
Ion Ratio Lower Upper
117 100
119 96.8 76.6 114.8
201 93.6 74.8 112.2





#19

n-Nitroso-di-n-propylamine

Concen: 44.444 ng

RT: 7.216 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion: 70 Resp: 312600

Ion Ratio Lower Upper

70 100

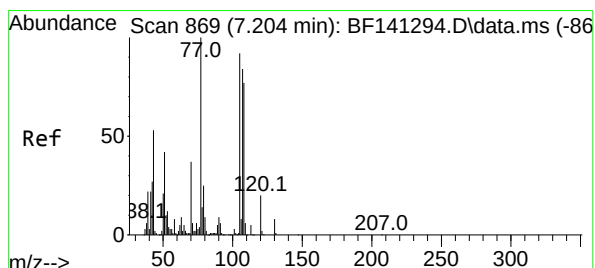
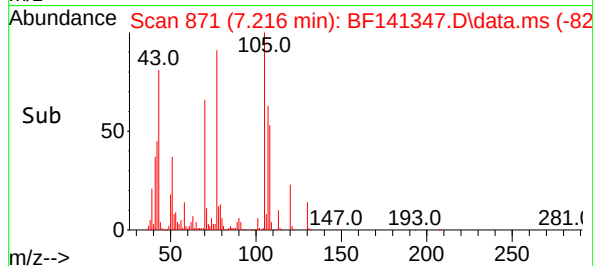
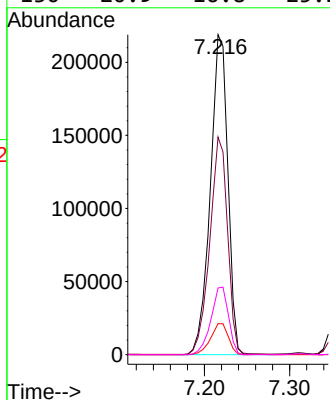
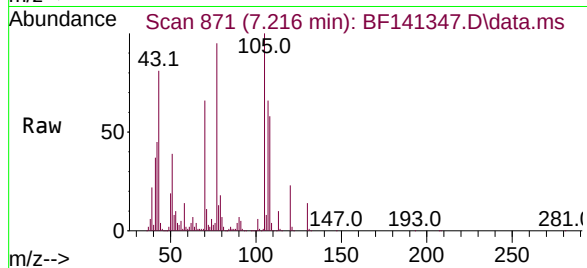
42 68.0 56.8 85.2

101 9.7 7.7 11.5

130 20.9 16.8 25.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#20

3+4-Methylphenols

Concen: 47.720 ng

RT: 7.222 min Scan# 872

Delta R.T. 0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Tgt Ion:107 Resp: 474928

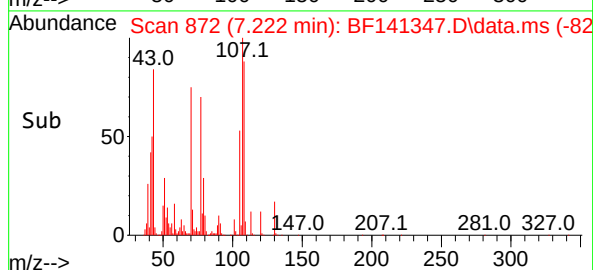
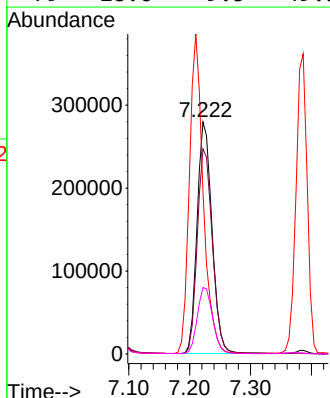
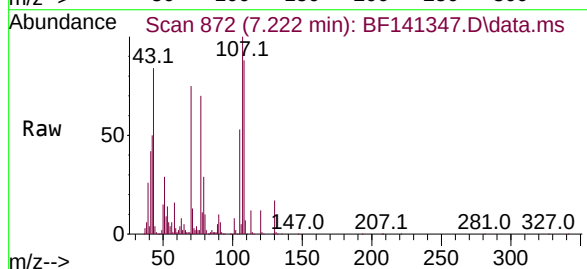
Ion Ratio Lower Upper

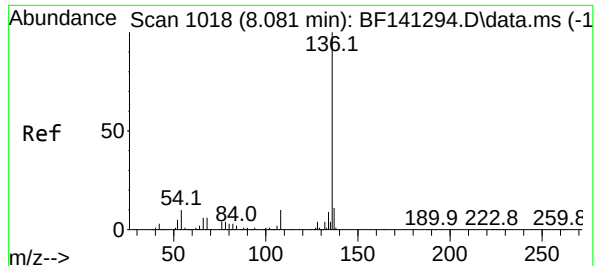
107 100

108 88.4 70.9 110.9

77 69.6 98.5 138.5#

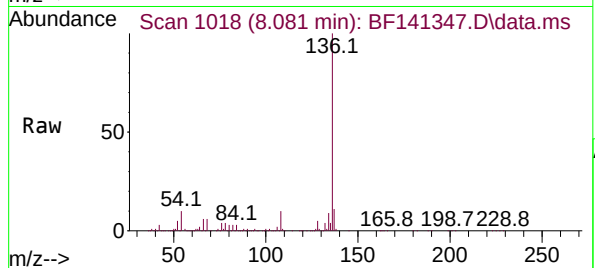
79 28.6 9.5 49.5





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1018
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

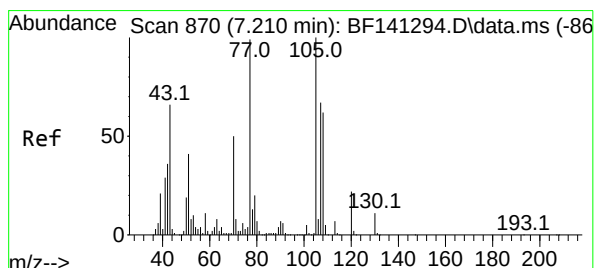
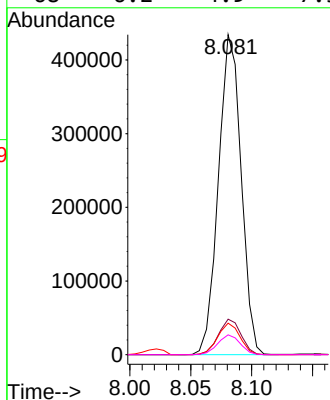
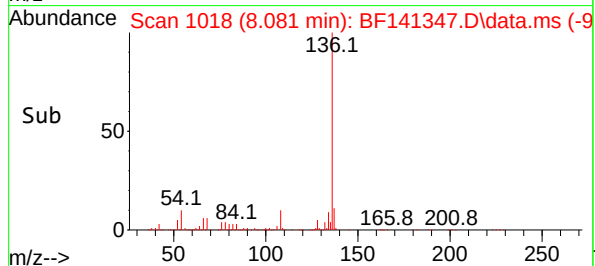
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



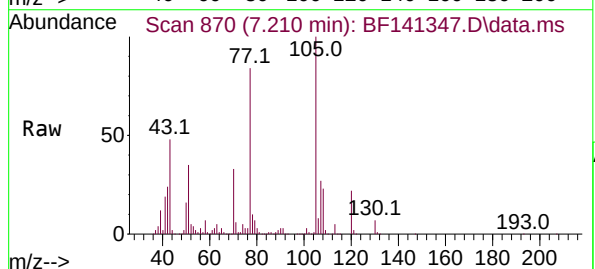
Tgt Ion:136 Resp: 564000
Ion Ratio Lower Upper
136 100
137 11.1 8.6 13.0
54 9.8 7.8 11.8
68 6.2 4.9 7.3

Manual Integrations
APPROVED

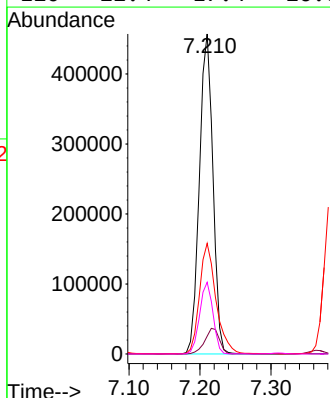
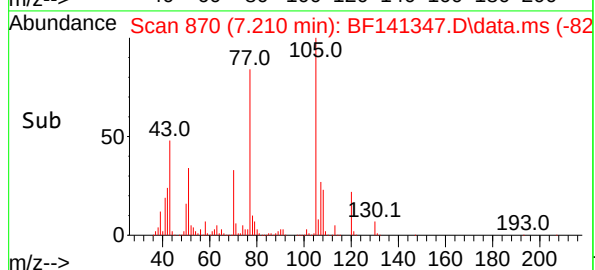
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

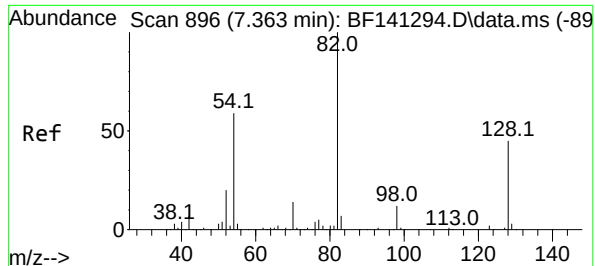


#22
Acetophenone
Concen: 45.303 ng
RT: 7.210 min Scan# 870
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16



Tgt Ion:105 Resp: 607354
Ion Ratio Lower Upper
105 100
71 5.6 6.8 10.2#
51 34.5 32.6 49.0
120 22.4 17.4 26.0





#23

Nitrobenzene-d5

Concen: 89.198 ng

RT: 7.363 min Scan# 89

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion: 82 Resp: 95431

Ion Ratio Lower Upper

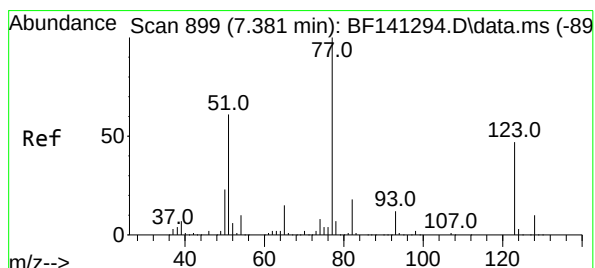
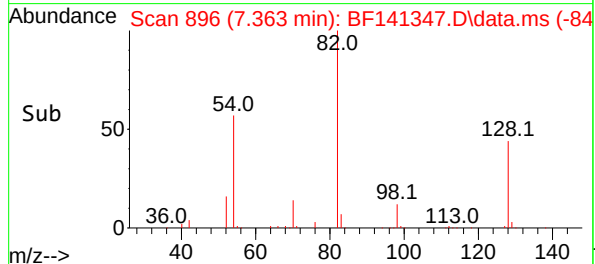
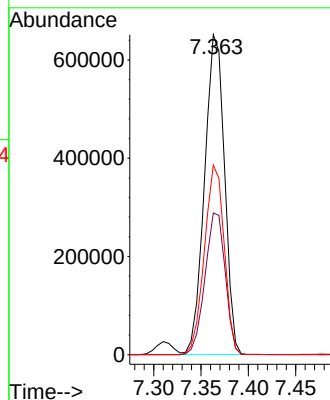
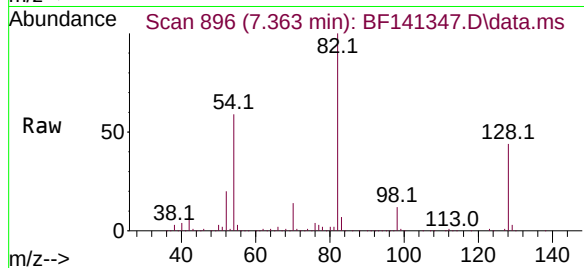
82 100

128 44.3 35.7 53.5

54 59.2 47.1 70.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#24

Nitrobenzene

Concen: 41.666 ng

RT: 7.386 min Scan# 900

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

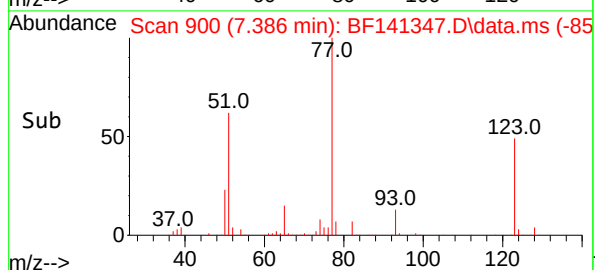
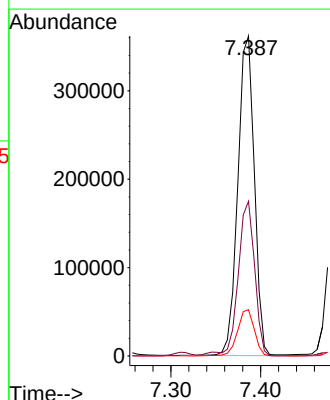
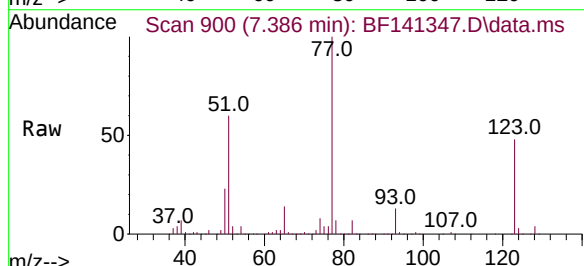
Tgt Ion: 77 Resp: 461964

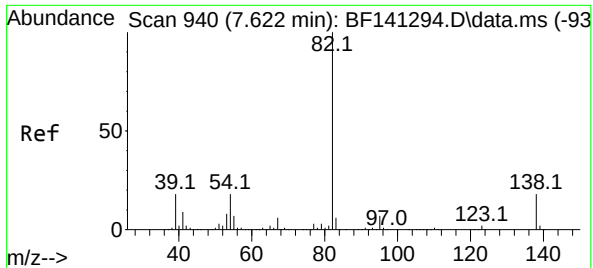
Ion Ratio Lower Upper

77 100

123 48.3 37.3 55.9

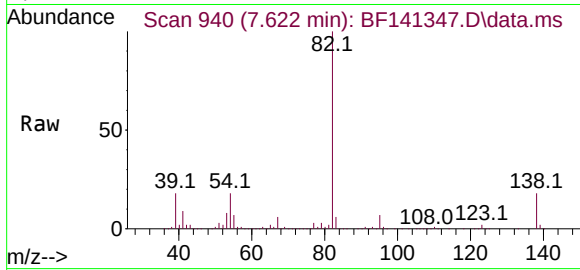
65 14.5 11.8 17.6





#25
Isophorone
Concen: 46.499 ng
RT: 7.622 min Scan# 940
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

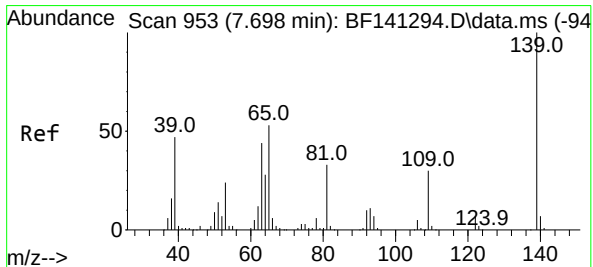
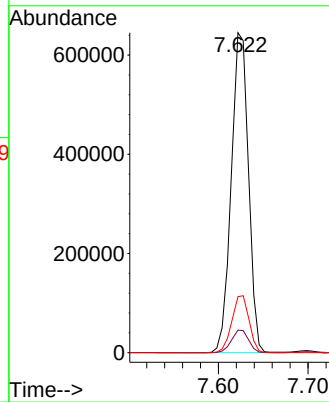
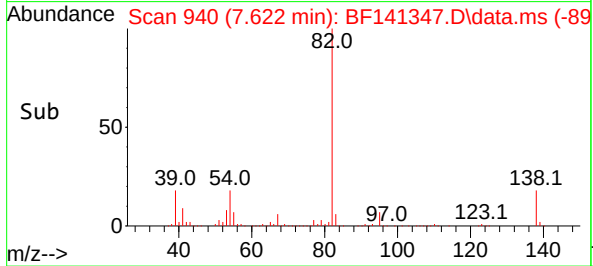
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



Tgt Ion: 82 Resp: 85994
Ion Ratio Lower Upper
82 100
95 7.0 5.8 8.6
138 17.5 14.7 22.1

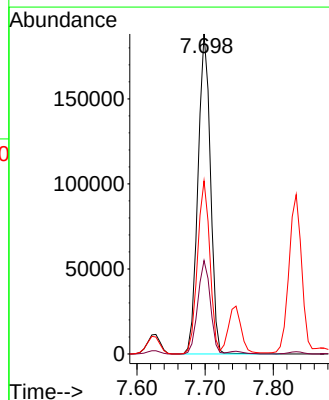
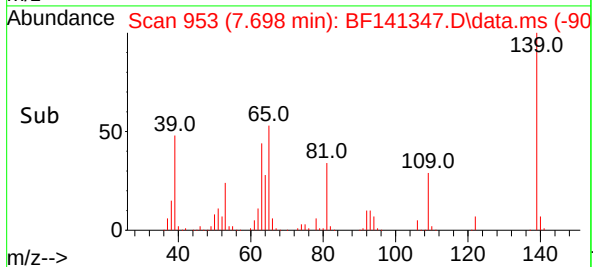
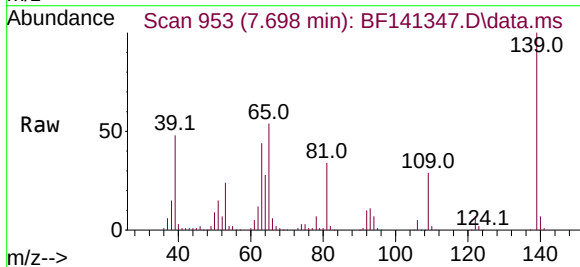
Manual Integrations
APPROVED

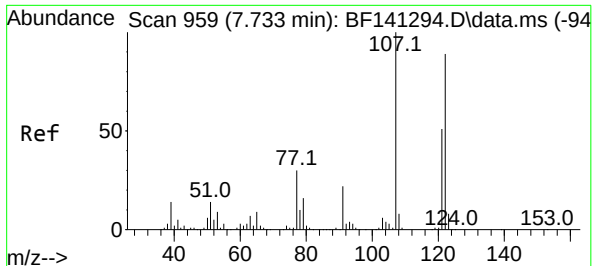
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#26
2-Nitrophenol
Concen: 45.517 ng
RT: 7.698 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

Tgt Ion:139 Resp: 238004
Ion Ratio Lower Upper
139 100
109 29.2 23.8 35.6
65 54.1 42.2 63.4





#27

2,4-Dimethylphenol

Concen: 55.019 ng m

RT: 7.745 min Scan# 90

Delta R.T. 0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

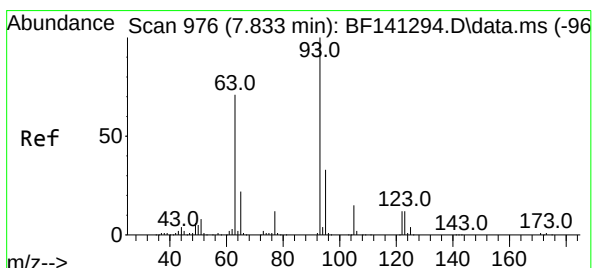
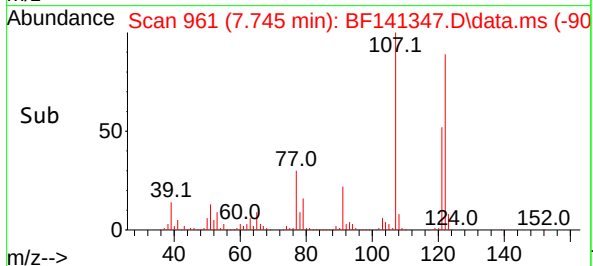
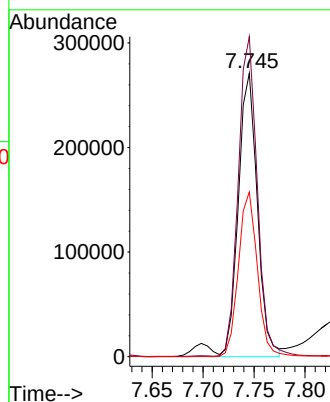
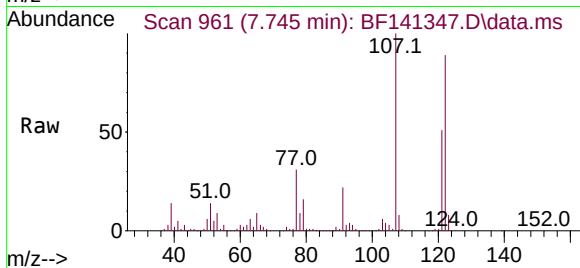
Tgt Ion:122 Resp: 36618

Ion	Ratio	Lower	Upper
122	100		
107	112.9	89.9	134.9
121	58.1	46.1	69.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#28

bis(2-Chloroethoxy)methane

Concen: 44.718 ng

RT: 7.834 min Scan# 976

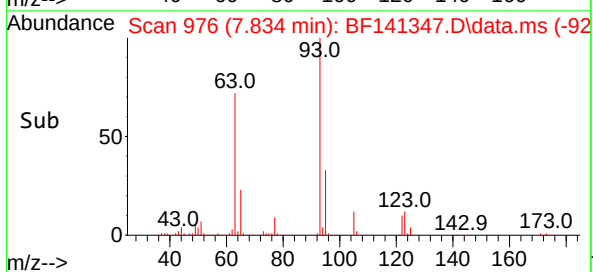
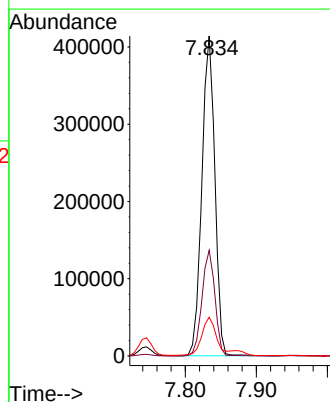
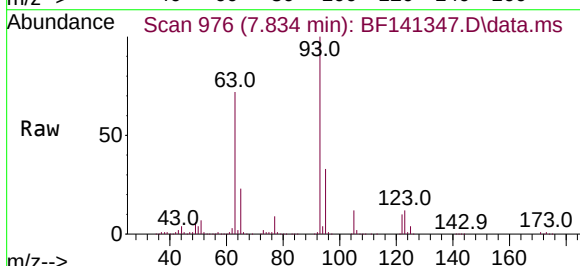
Delta R.T. -0.006 min

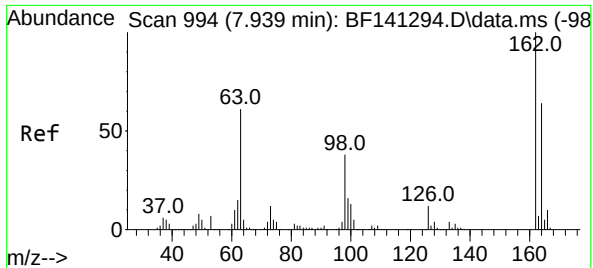
Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Tgt Ion: 93 Resp: 527526

Ion	Ratio	Lower	Upper
93	100		
95	33.0	26.2	39.2
123	12.1	10.2	15.4





#29

2,4-Dichlorophenol

Concen: 47.005 ng

RT: 7.951 min Scan# 994

Delta R.T. 0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

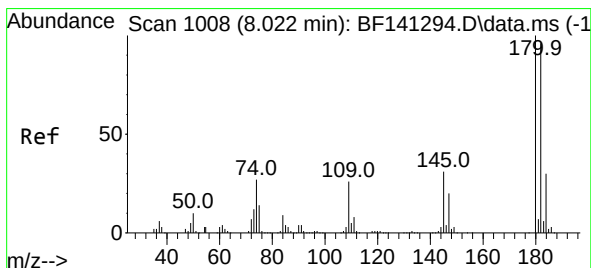
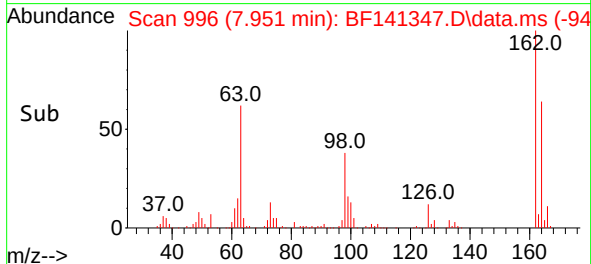
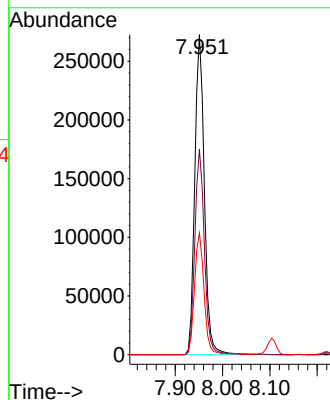
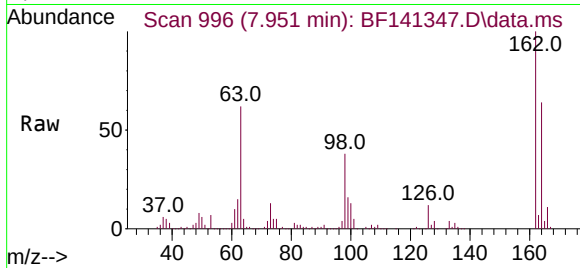
Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:	162	Resp:	382994
Ion Ratio	Lower	Upper	
162	100		
164	64.2	44.2	84.2
98	38.0	18.2	58.2

Manual Integrations
APPROVEDReviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#30

1,2,4-Trichlorobenzene

Concen: 39.491 ng

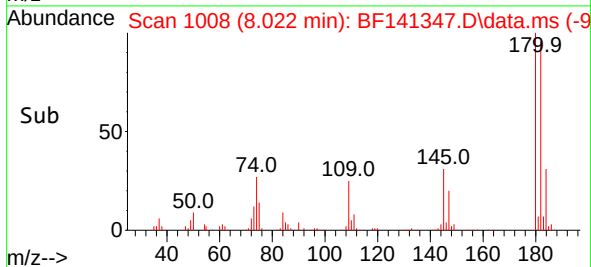
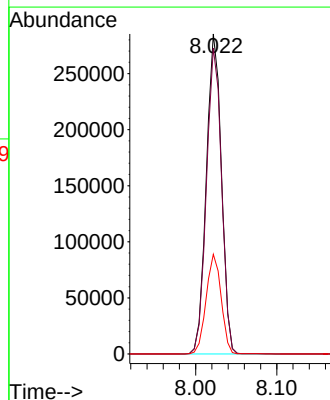
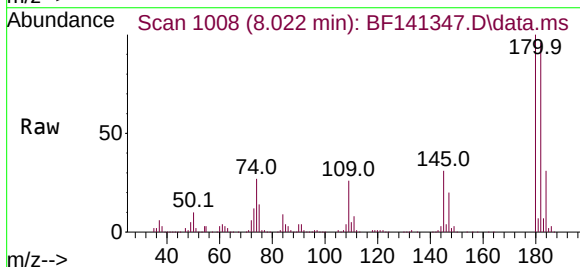
RT: 8.022 min Scan# 1008

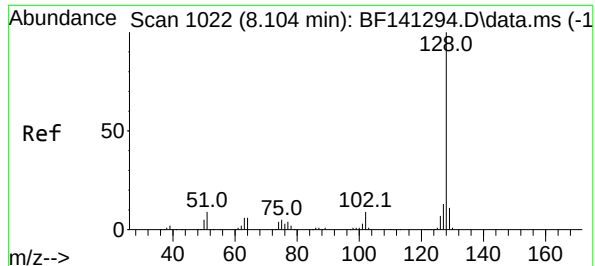
Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Tgt Ion:	180	Resp:	367470
Ion Ratio	Lower	Upper	
180	100		
182	95.6	76.4	114.6
145	31.1	24.9	37.3





#31

Naphthalene

Concen: 42.152 ng

RT: 8.104 min Scan# 1022

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:128 Resp: 125590

Ion Ratio Lower Upper

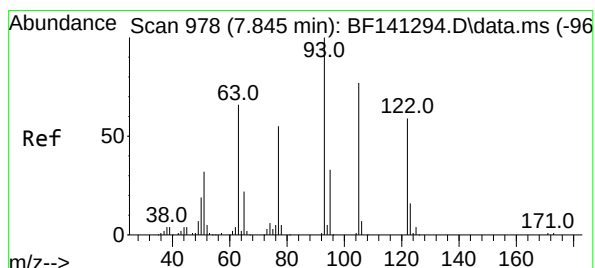
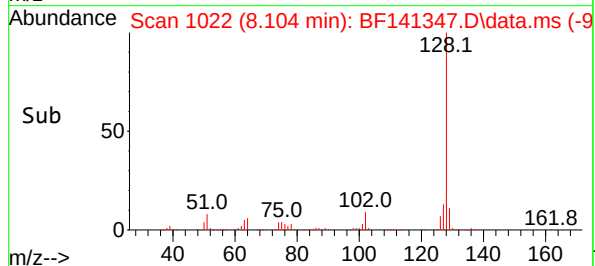
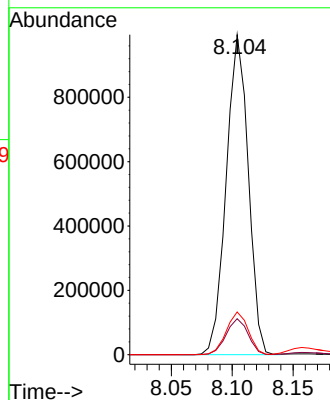
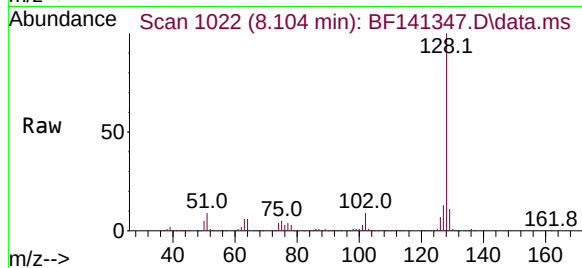
128 100

129 11.3 8.9 13.3

127 13.3 10.6 15.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#32

Benzoic acid

Concen: 48.138 ng

RT: 7.875 min Scan# 983

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

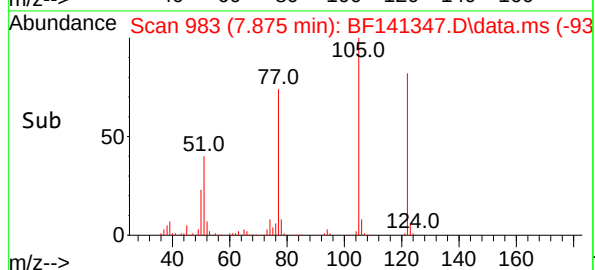
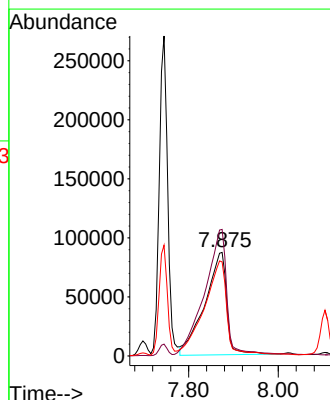
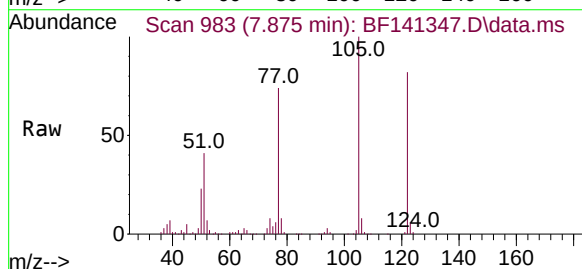
Tgt Ion:122 Resp: 294524

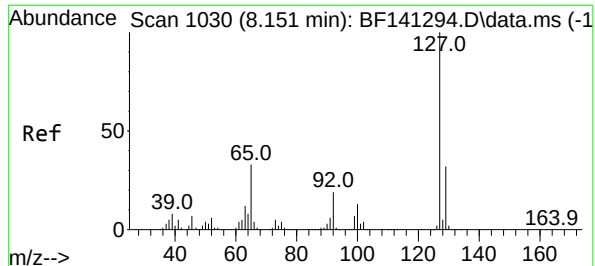
Ion Ratio Lower Upper

122 100

105 122.1 103.4 143.4

77 90.8 70.9 110.9





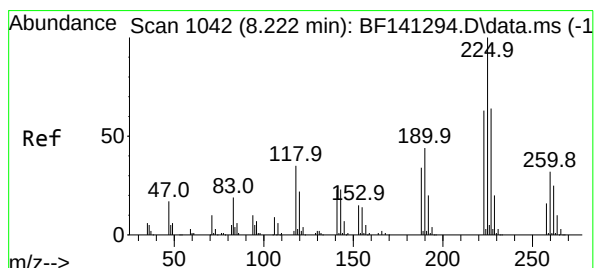
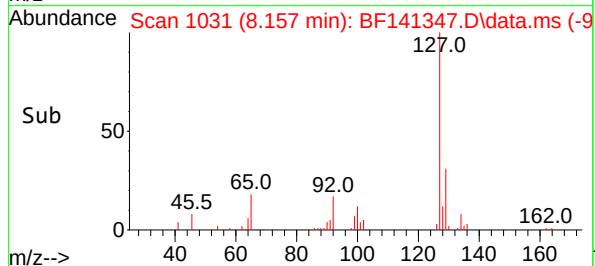
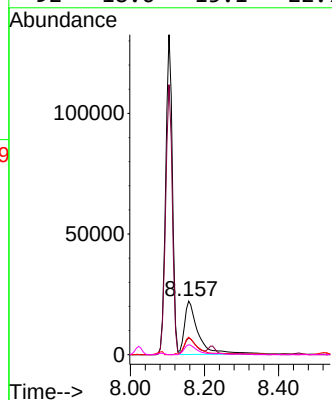
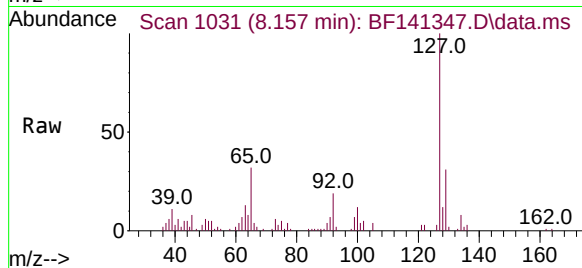
#33
4-Chloroaniline
Concen: 5.648 ng
RT: 8.157 min Scan# 1030
Delta R.T. -0.000 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

Instrument :
BNA_F
ClientSampleId :
VNJ-236MS

Tgt Ion:127 Resp: 5706
Ion Ratio Lower Upper
127 100
129 31.0 25.7 38.5
65 32.4 26.4 39.6
92 18.6 15.1 22.7

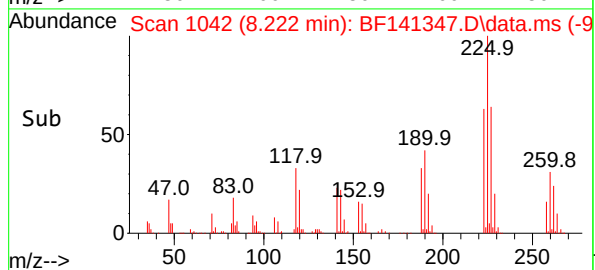
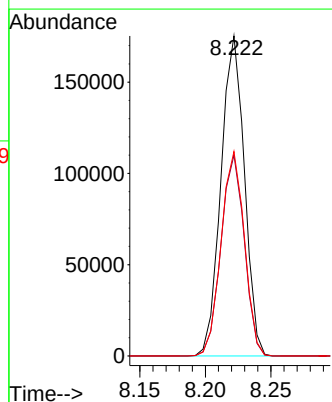
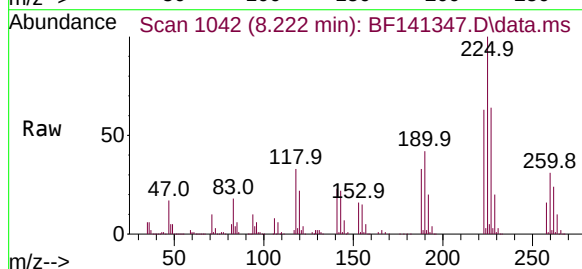
Manual Integrations
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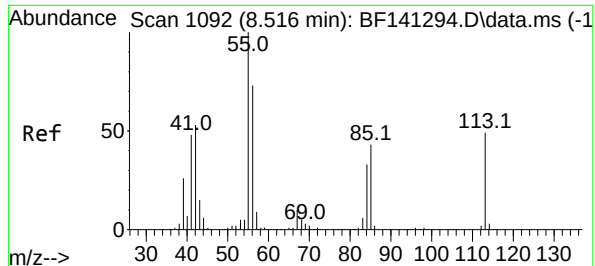
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#34
Hexachlorobutadiene
Concen: 39.847 ng
RT: 8.222 min Scan# 1042
Delta R.T. -0.000 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

Tgt Ion:225 Resp: 217440
Ion Ratio Lower Upper
225 100
223 62.8 50.4 75.6
227 63.9 51.3 76.9





#35

Caprolactam

Concen: 42.249 ng m

RT: 8.522 min Scan# 1109

Delta R.T. -0.024 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:113 Resp: 112420

Ion Ratio Lower Upper

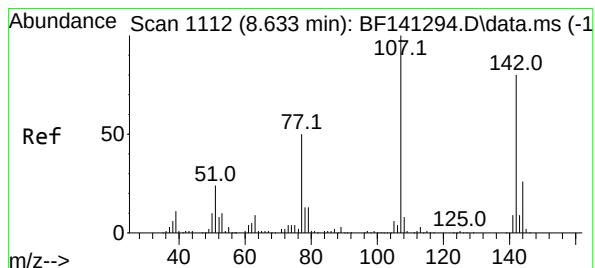
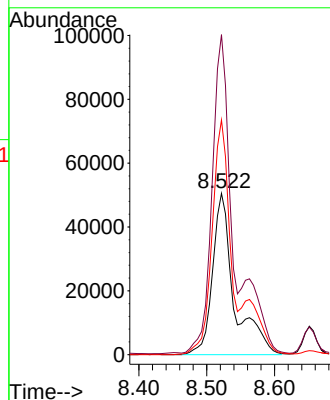
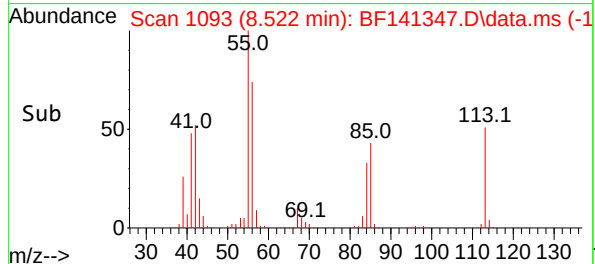
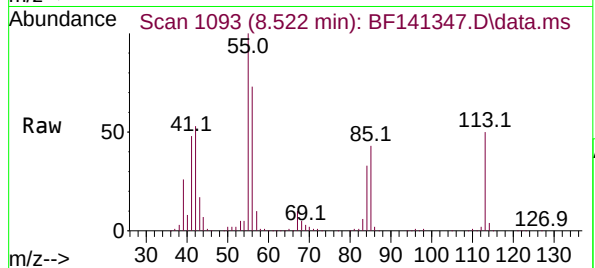
113 100

55 198.4 182.9 222.9

56 145.5 127.9 167.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#36

4-Chloro-3-methylphenol

Concen: 45.654 ng

RT: 8.651 min Scan# 1115

Delta R.T. 0.012 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

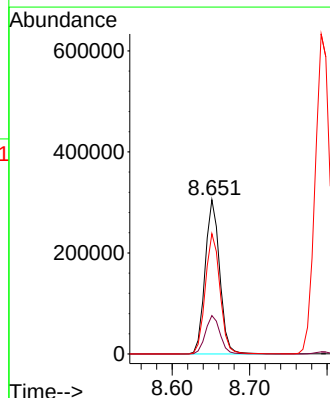
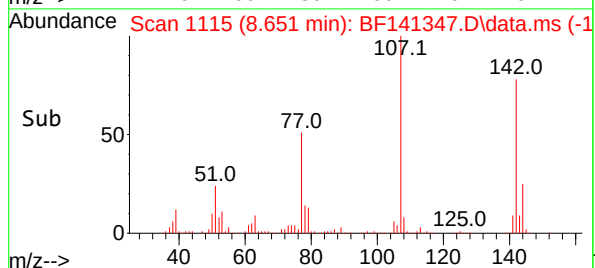
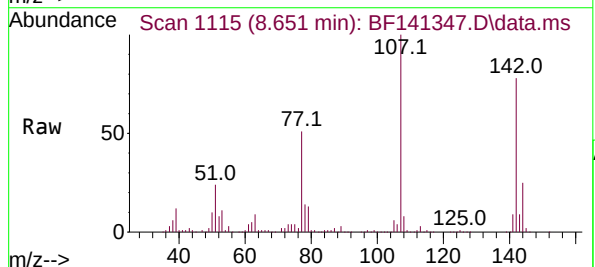
Tgt Ion:107 Resp: 399006

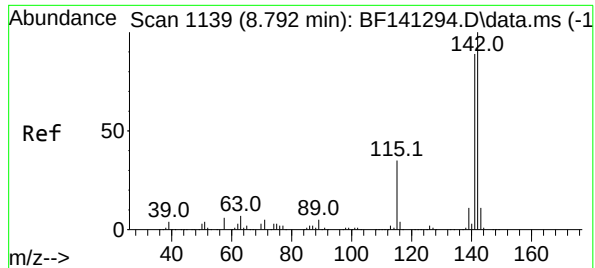
Ion Ratio Lower Upper

107 100

144 24.9 20.7 31.1

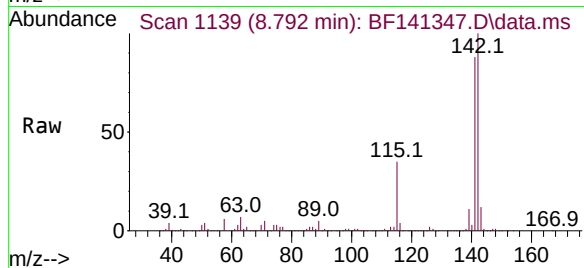
142 78.0 63.8 95.8





#37
2-Methylnaphthalene
Concen: 43.997 ng
RT: 8.792 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

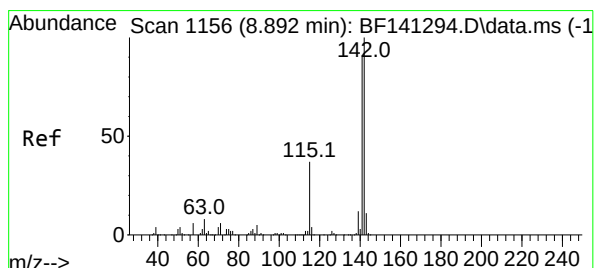
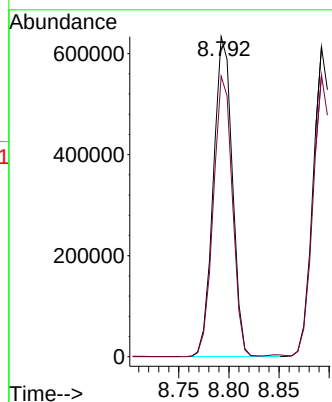
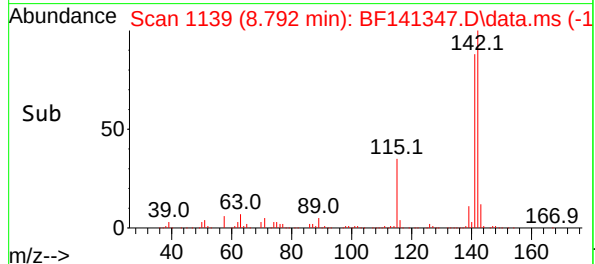
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



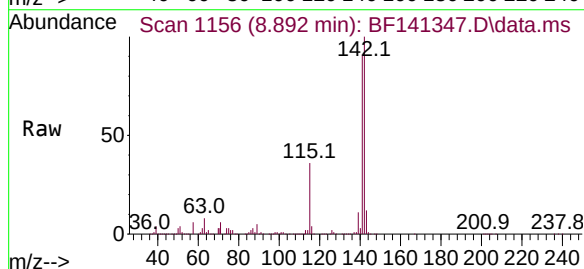
Tgt Ion:142 Resp: 833174
Ion Ratio Lower Upper
142 100
141 87.6 71.3 106.9

Manual Integrations
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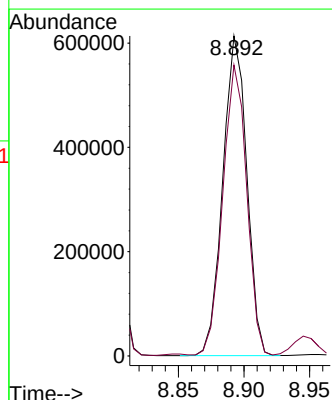
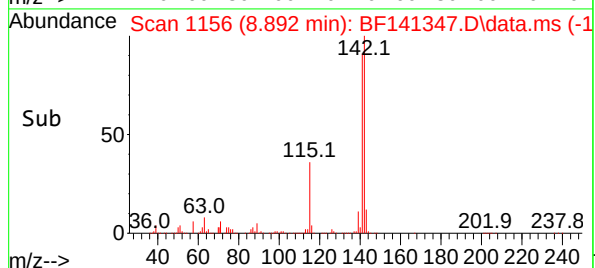
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

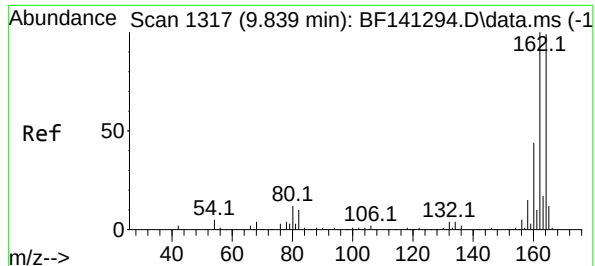


#38
1-Methylnaphthalene
Concen: 41.964 ng
RT: 8.892 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16



Tgt Ion:142 Resp: 780629
Ion Ratio Lower Upper
142 100
141 90.9 73.2 109.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.839 min Scan# 1167

Delta R.T. -0.000 min

Lab File: BF141347.D

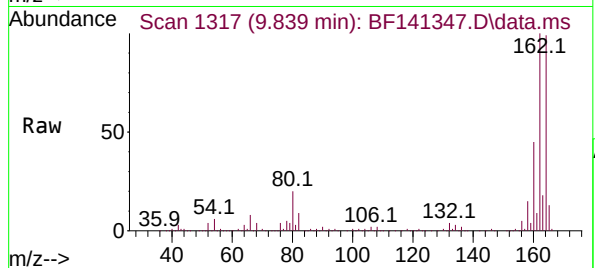
Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS



Tgt Ion:164 Resp: 294750

Ion Ratio Lower Upper

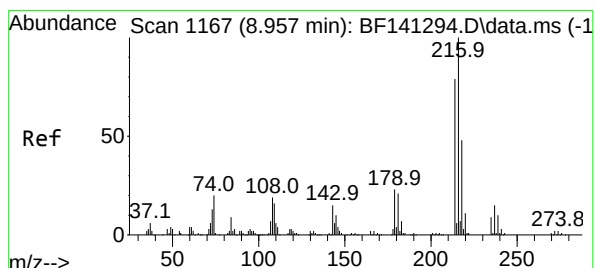
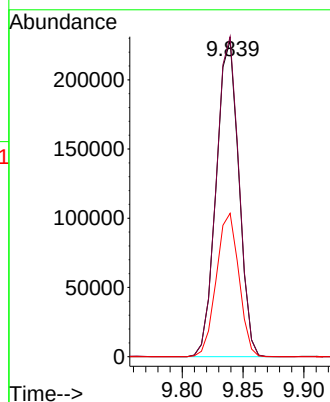
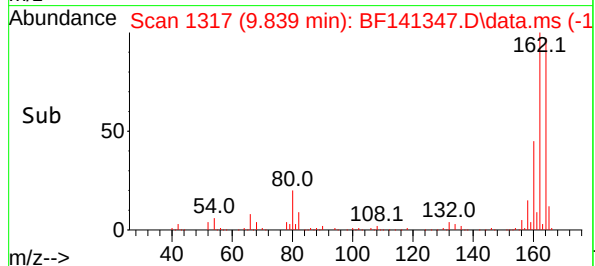
164 100

162 101.2 80.6 121.0

160 45.4 35.8 53.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#40

1,2,4,5-Tetrachlorobenzene

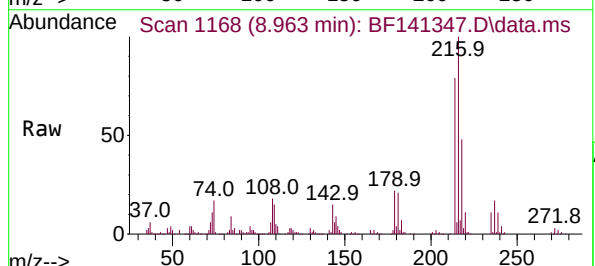
Concen: 44.357 ng

RT: 8.963 min Scan# 1168

Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16



Tgt Ion:216 Resp: 371956

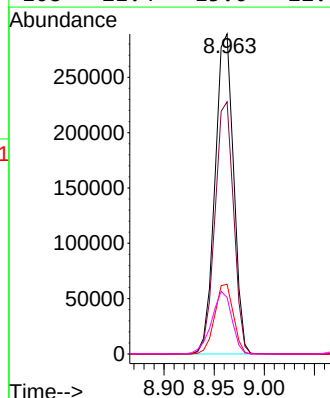
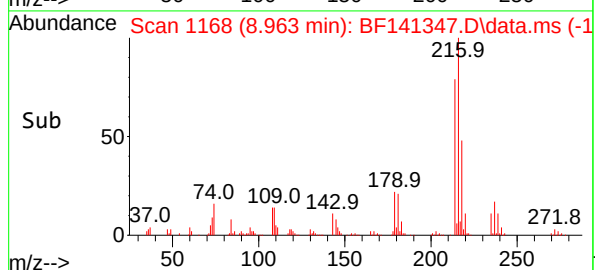
Ion Ratio Lower Upper

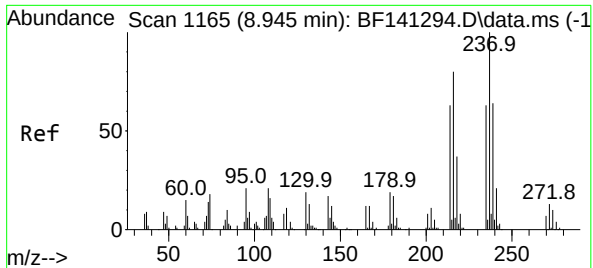
216 100

214 79.1 63.2 94.8

179 21.9 17.8 26.8

108 21.4 15.0 22.6





#41

Hexachlorocyclopentadiene

Concen: 155.052 ng

RT: 8.945 min Scan# 1165

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:237 Resp: 38398

Ion Ratio Lower Upper

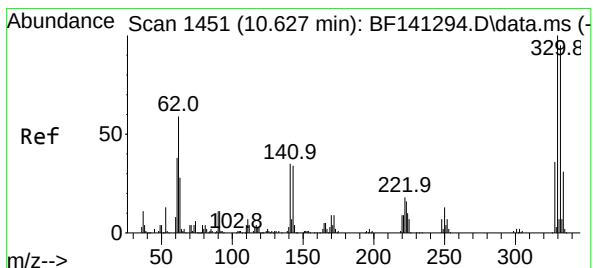
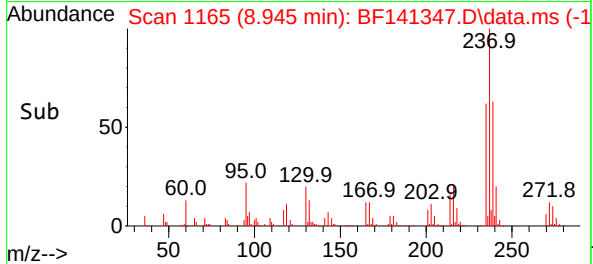
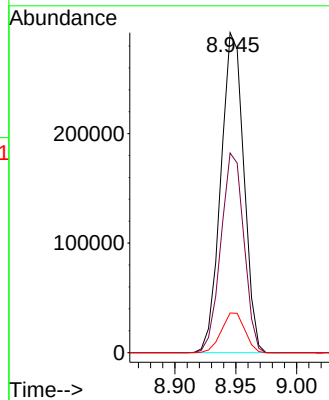
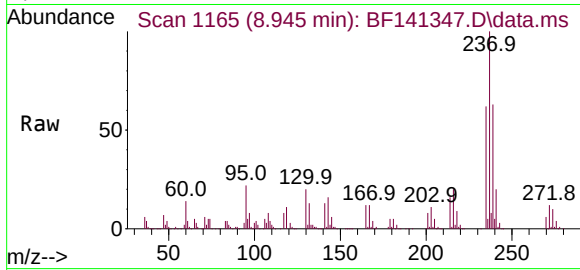
237 100

235 62.4 42.9 82.9

272 12.4 0.0 32.8

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#42

2,4,6-Tribromophenol

Concen: 125.791 ng

RT: 10.633 min Scan# 1452

Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

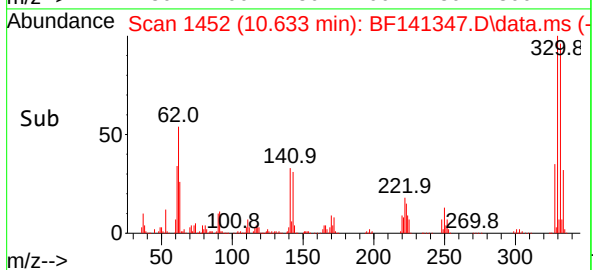
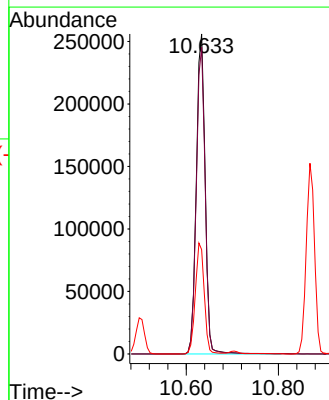
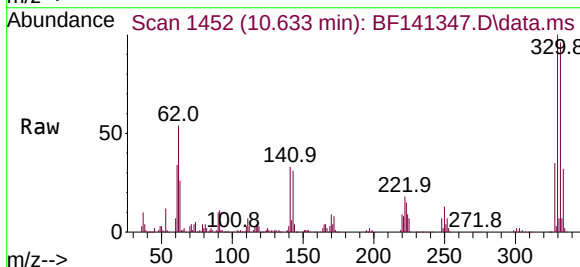
Tgt Ion:330 Resp: 339916

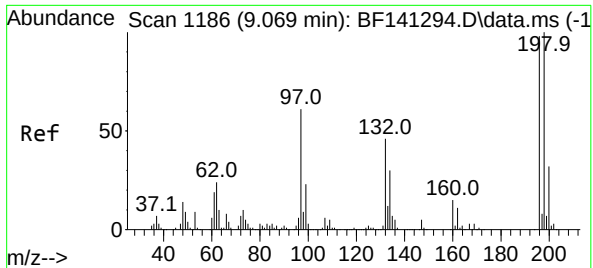
Ion Ratio Lower Upper

330 100

332 95.8 76.1 114.1

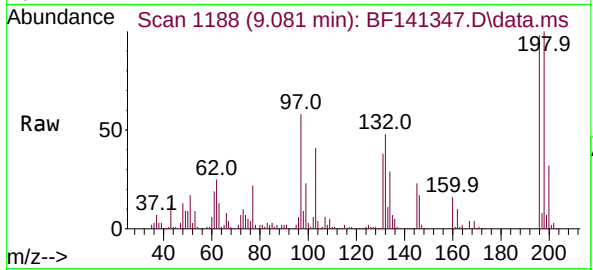
141 35.1 28.8 43.2





#43
2,4,6-Trichlorophenol
Concen: 47.316 ng
RT: 9.081 min Scan# 1188
Delta R.T. 0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

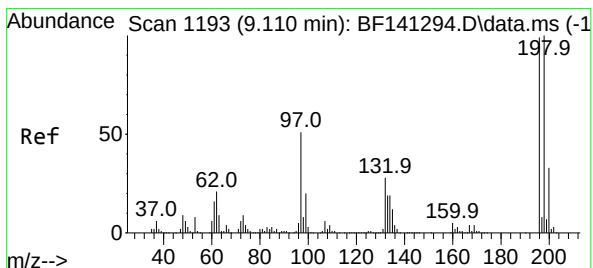
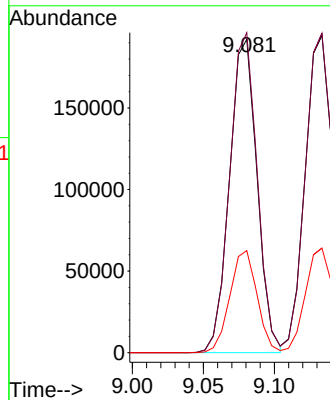
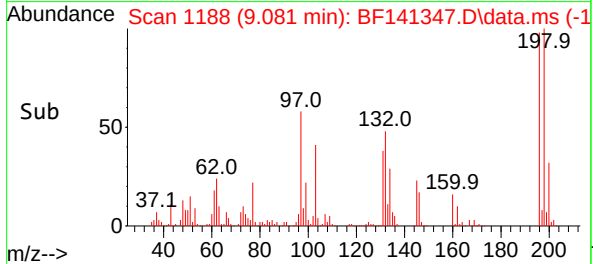
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



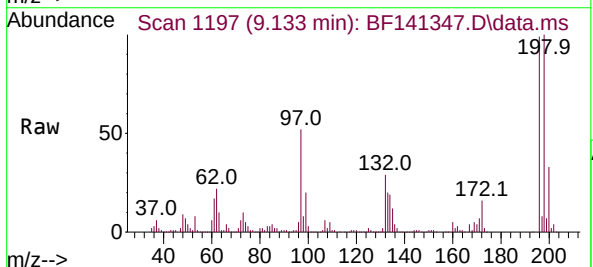
Tgt Ion:196 Resp: 259699
Ion Ratio Lower Upper
196 100
198 102.1 81.8 122.6
200 32.6 26.3 39.5

Manual Integrations
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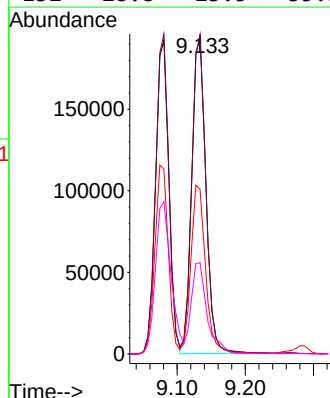
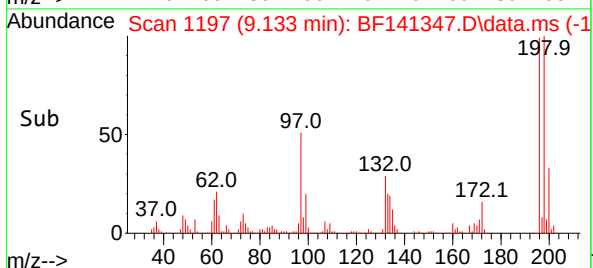
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

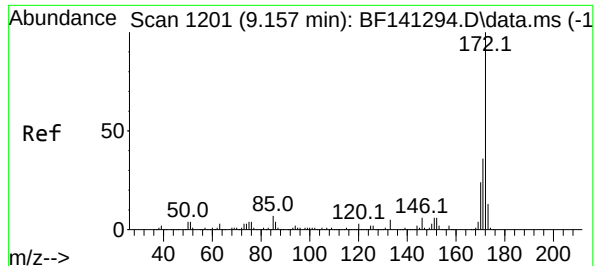


#44
2,4,5-Trichlorophenol
Concen: 46.565 ng
RT: 9.133 min Scan# 1197
Delta R.T. 0.017 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16



Tgt Ion:196 Resp: 278164
Ion Ratio Lower Upper
196 100
198 100.7 80.5 120.7
97 51.9 42.8 64.2
132 28.8 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 86.431 ng

RT: 9.157 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:172 Resp: 165515

Ion Ratio Lower Upper

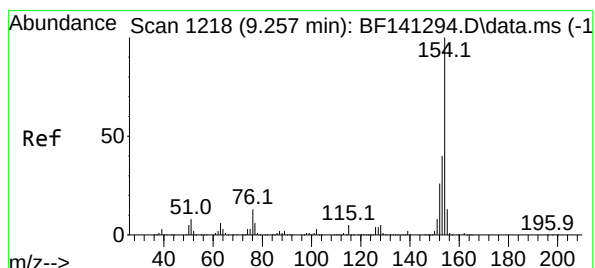
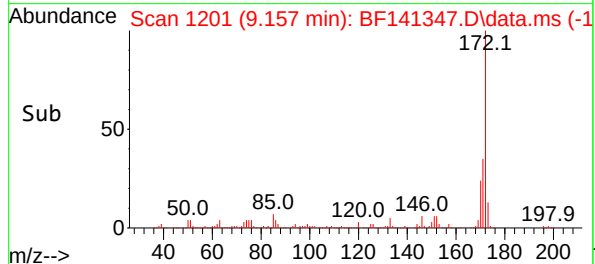
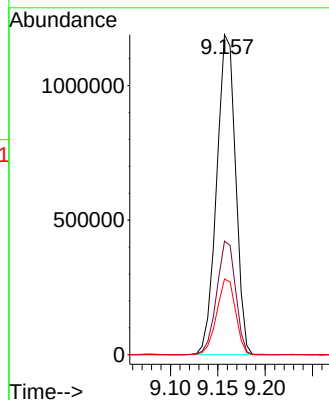
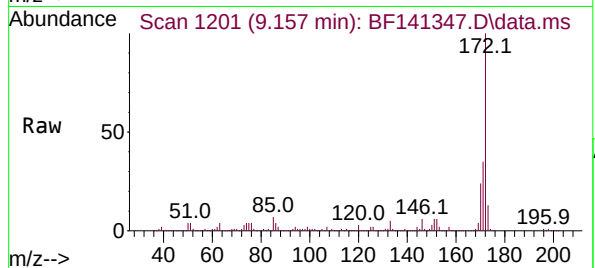
172 100

171 35.5 28.8 43.2

170 23.6 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#46

1,1'-Biphenyl

Concen: 44.880 ng

RT: 9.263 min Scan# 1219

Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

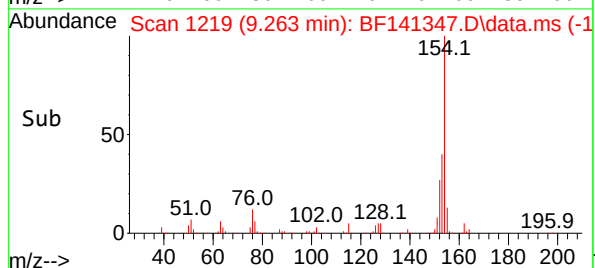
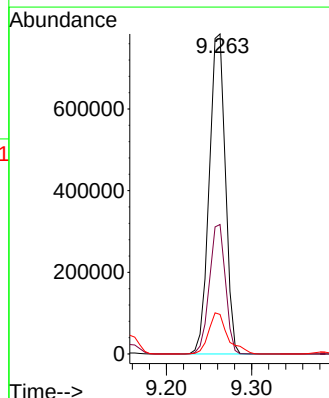
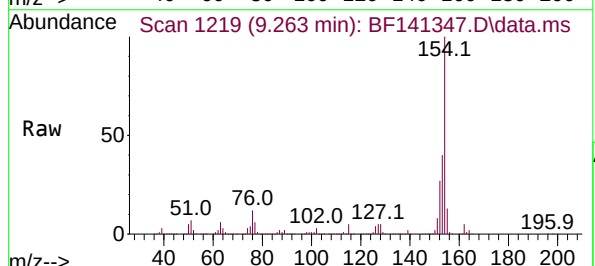
Tgt Ion:154 Resp: 1031667

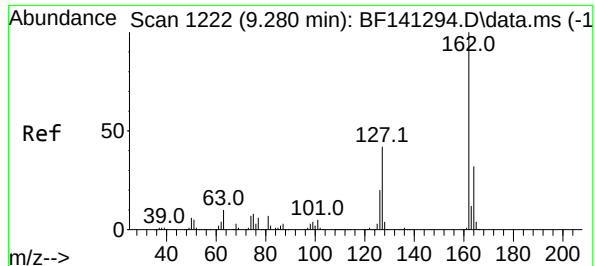
Ion Ratio Lower Upper

154 100

153 40.4 20.0 60.0

76 12.3 0.0 32.8





#47

2-Chloronaphthalene

Concen: 43.094 ng

RT: 9.286 min Scan# 1222

Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

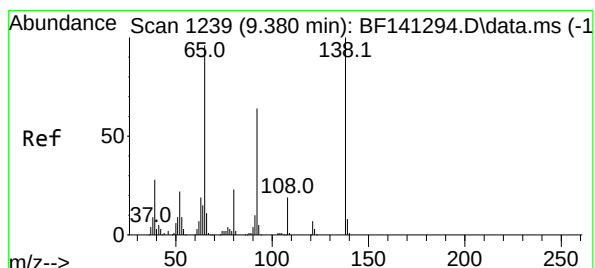
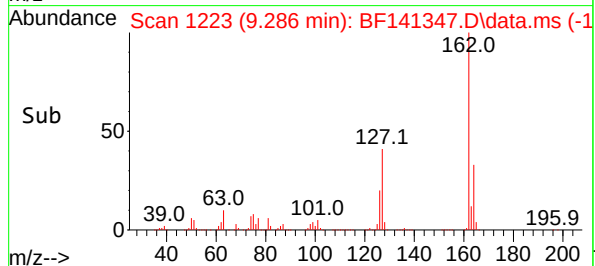
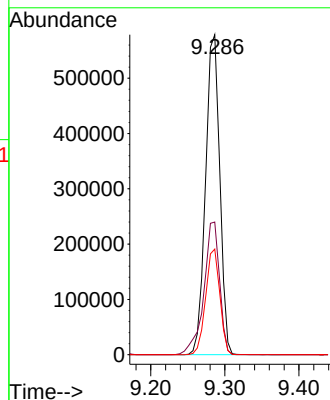
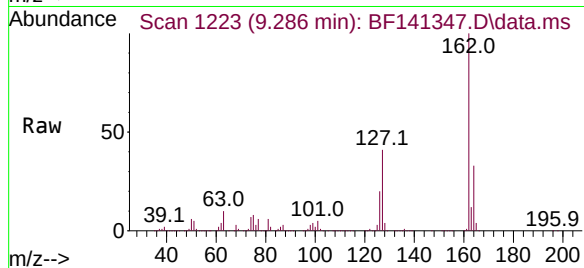
ClientSampleId :

VNJ-236MS

Tgt Ion:162 Resp: 772138
Ion Ratio Lower Upper
162 100
127 41.5 33.7 50.5
164 33.0 25.9 38.9

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#48

2-Nitroaniline

Concen: 47.201 ng

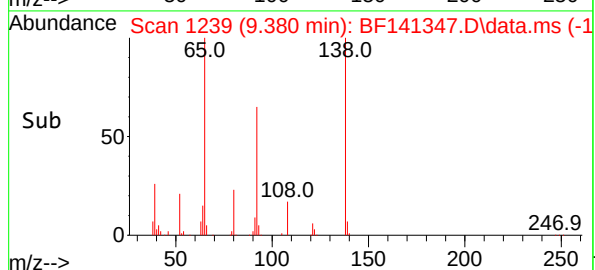
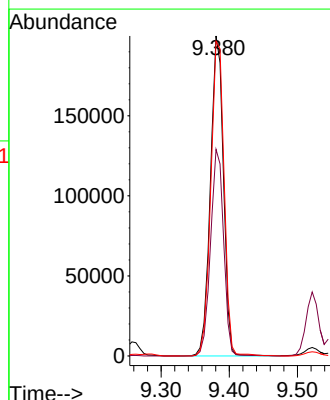
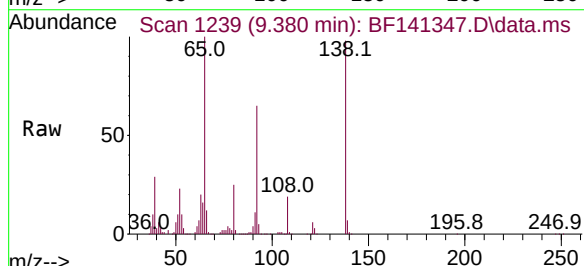
RT: 9.380 min Scan# 1239

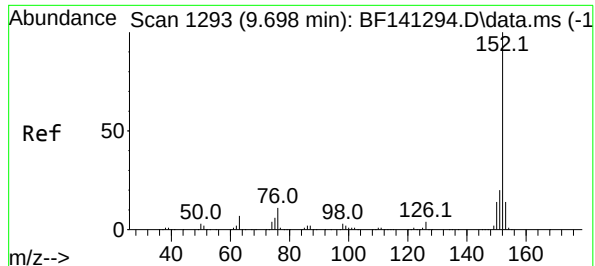
Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Tgt Ion: 65 Resp: 266013
Ion Ratio Lower Upper
65 100
92 64.5 53.3 79.9
138 98.4 83.6 125.4





#49

Acenaphthylene

Concen: 47.667 ng

RT: 9.698 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:152 Resp: 119554

Ion Ratio Lower Upper

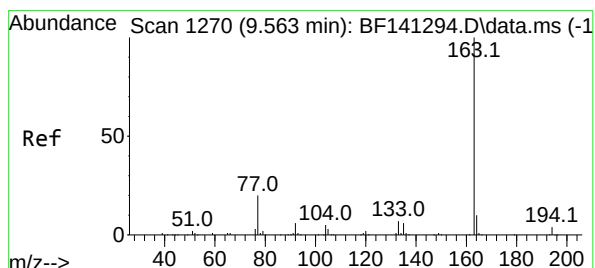
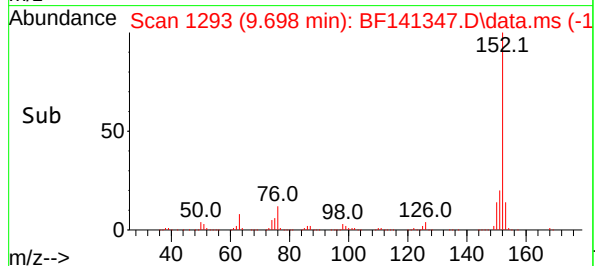
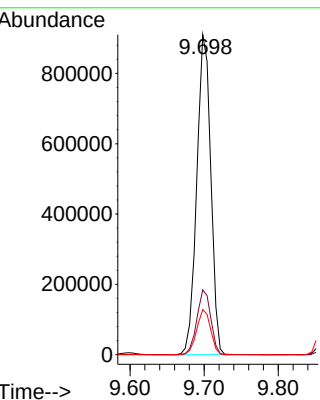
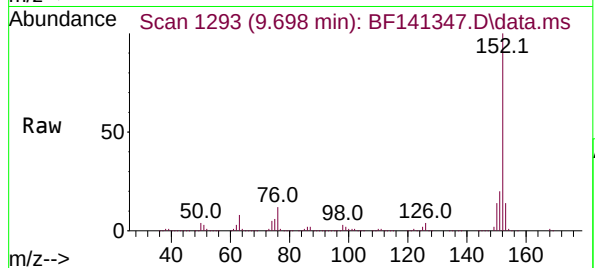
152 100

151 20.2 16.2 24.2

153 14.1 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#50

Dimethylphthalate

Concen: 48.350 ng

RT: 9.563 min Scan# 1270

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

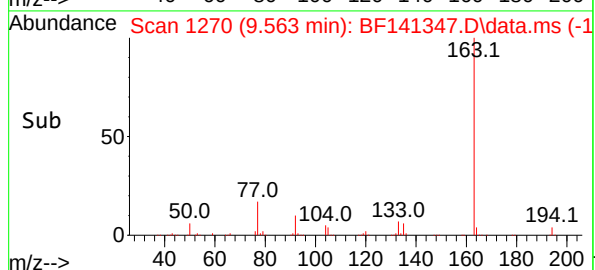
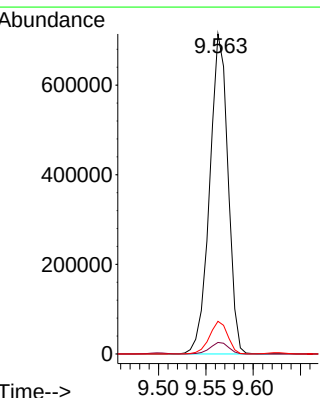
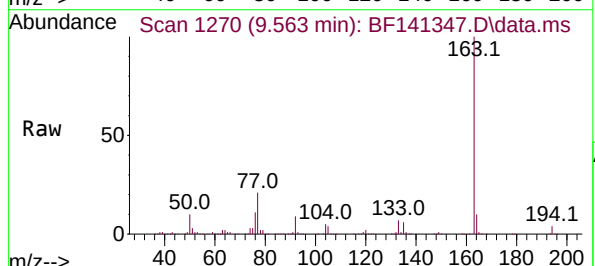
Tgt Ion:163 Resp: 962538

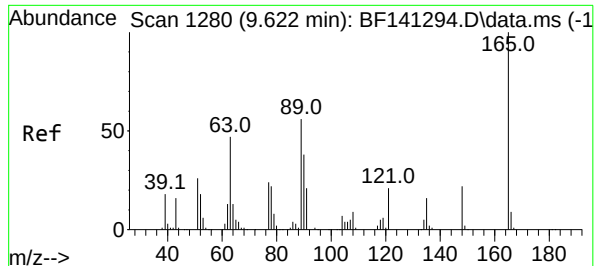
Ion Ratio Lower Upper

163 100

194 3.6 3.0 4.6

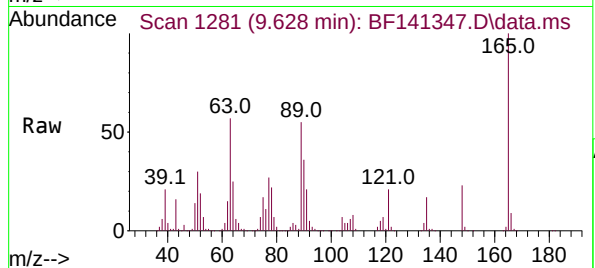
164 10.2 8.0 12.0





#51
2,6-Dinitrotoluene
Concen: 44.915 ng
RT: 9.628 min Scan# 1280
Delta R.T. -0.000 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

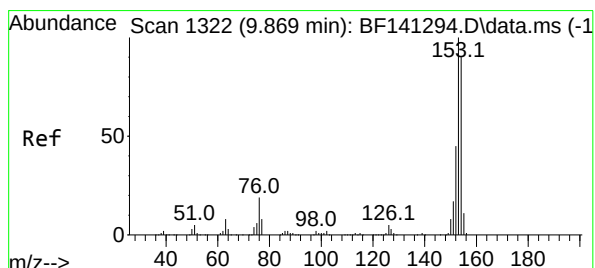
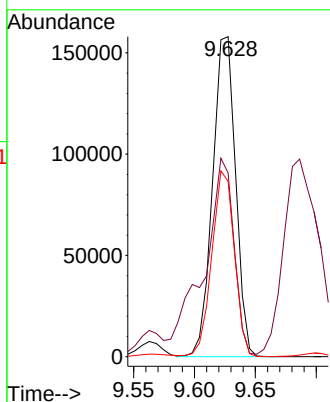
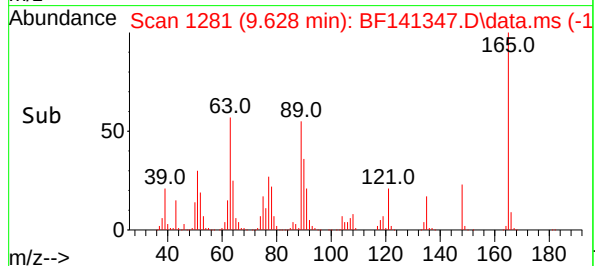
Instrument :
BNA_F
Client SampleId :
VNJ-236MS



Tgt Ion:165 Resp: 207612
Ion Ratio Lower Upper
165 100
63 57.4 48.1 72.1
89 54.8 44.9 67.3

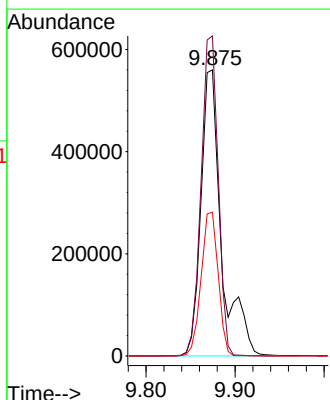
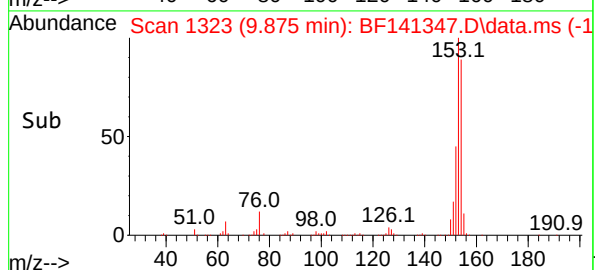
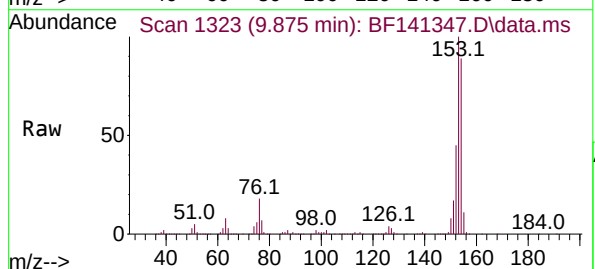
Manual Integrations
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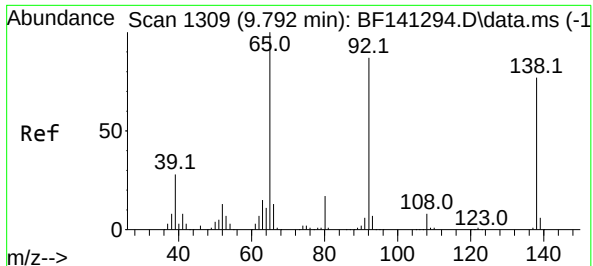
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#52
Acenaphthene
Concen: 50.367 ng m
RT: 9.875 min Scan# 1323
Delta R.T. -0.000 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

Tgt Ion:154 Resp: 902474
Ion Ratio Lower Upper
154 100
153 111.8 89.0 133.4
152 50.2 40.2 60.4





#53

3-Nitroaniline

Concen: 16.922 ng

RT: 9.792 min Scan# 1309

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:138 Resp: 7666

Ion Ratio Lower Upper

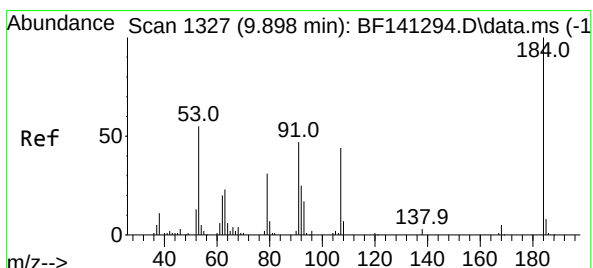
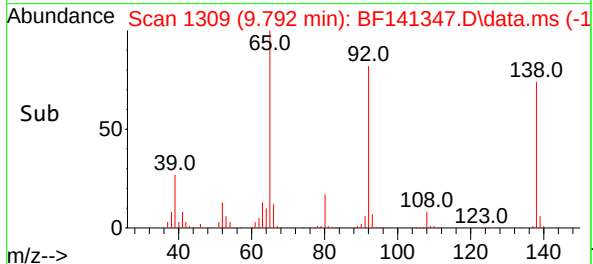
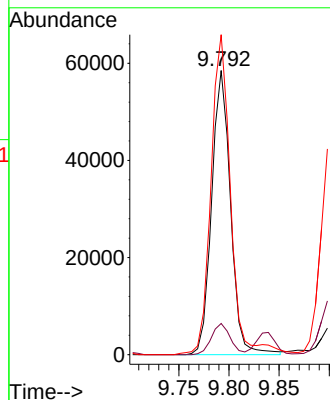
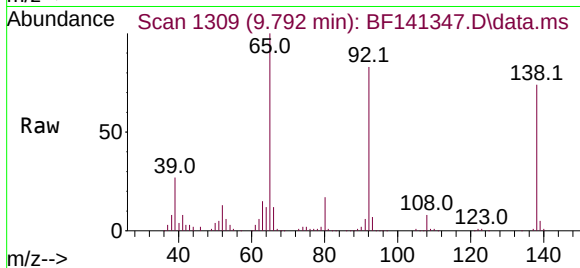
138 100

108 11.0 8.6 12.8

92 112.6 91.0 136.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#54

2,4-Dinitrophenol

Concen: 113.607 ng

RT: 9.904 min Scan# 1328

Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

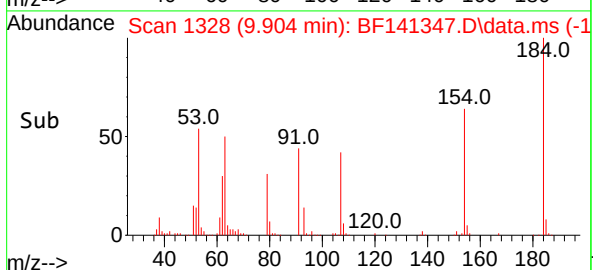
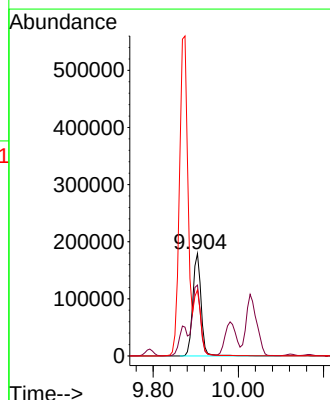
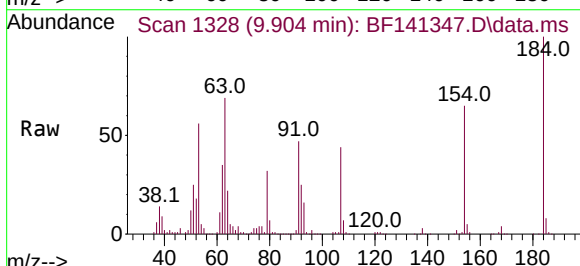
Tgt Ion:184 Resp: 244109

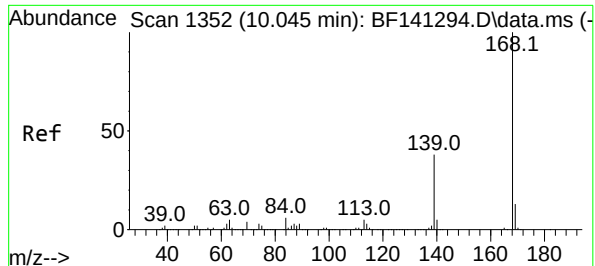
Ion Ratio Lower Upper

184 100

63 69.2 54.1 81.1

154 64.5 50.7 76.1





#55

Dibenzenofuran

Concen: 44.919 ng

RT: 10.045 min Scan# 1352

Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:168 Resp: 107735

Ion Ratio Lower Upper

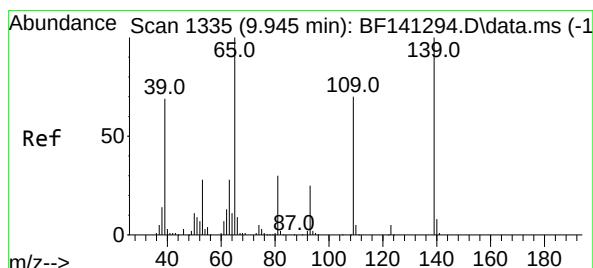
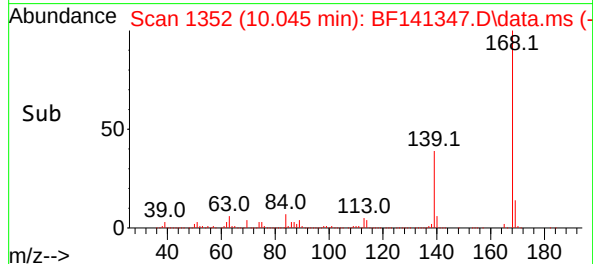
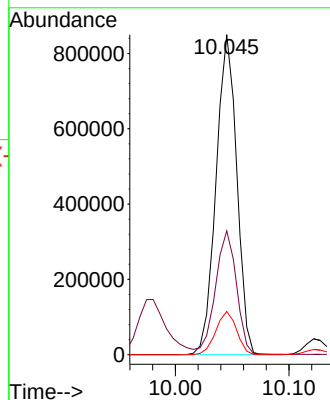
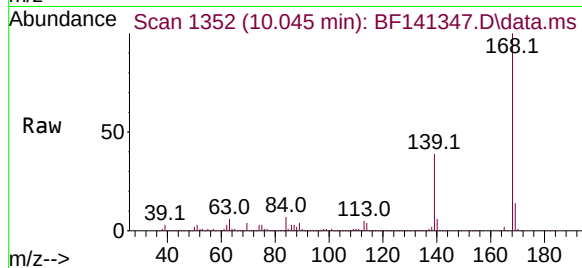
168 100

139 38.7 30.6 46.0

169 13.5 10.8 16.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#56

4-Nitrophenol

Concen: 77.860 ng

RT: 9.980 min Scan# 1341

Delta R.T. 0.023 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

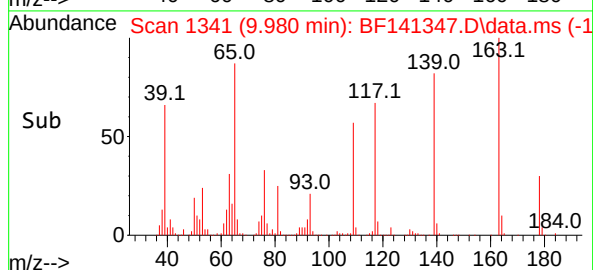
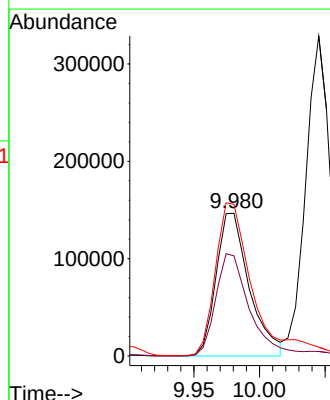
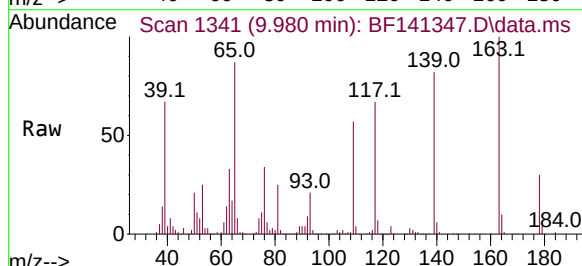
Tgt Ion:139 Resp: 257968

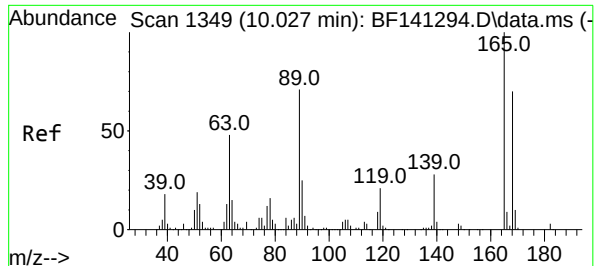
Ion Ratio Lower Upper

139 100

109 70.2 50.2 90.2

65 106.3 80.6 120.6





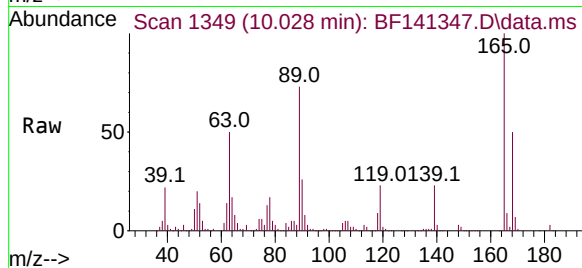
#57
2,4-Dinitrotoluene
Concen: 45.251 ng
RT: 10.028 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

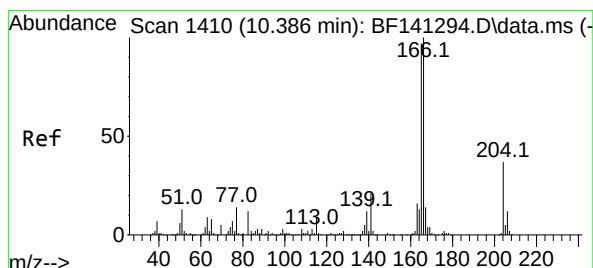
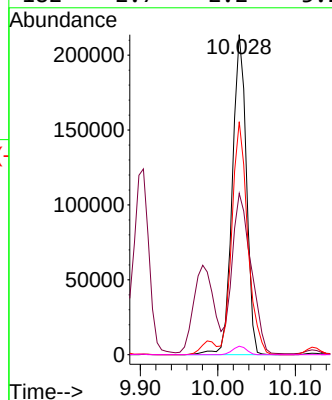
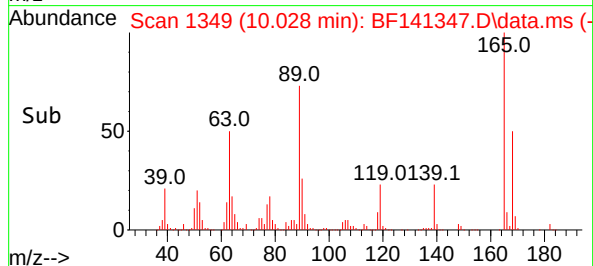


Tgt Ion:165 Resp: 27081
Ion Ratio Lower Upper
165 100
63 50.4 39.2 58.8
89 72.8 56.9 85.3
182 2.7 2.2 3.2

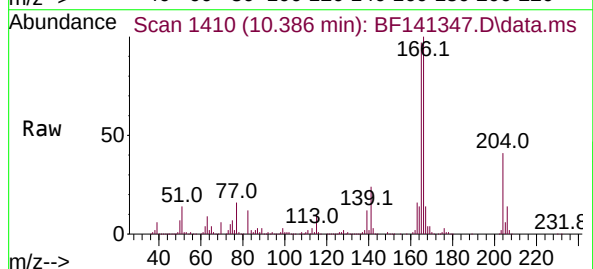
Manual Integrations

APPROVED

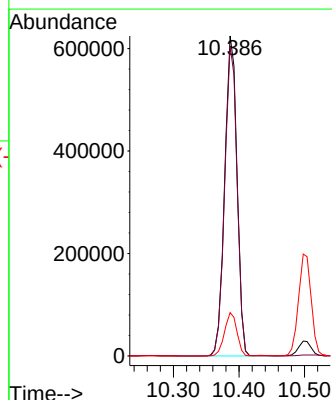
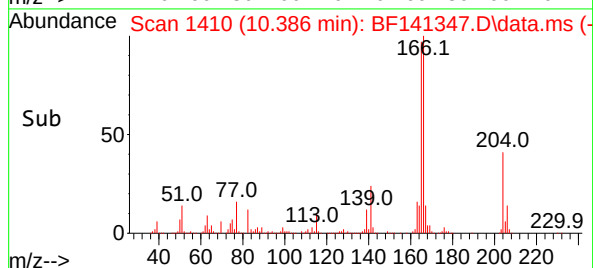
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

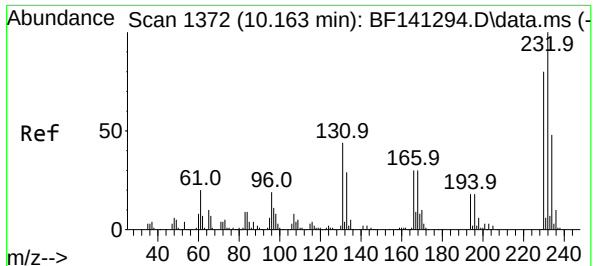


#58
Fluorene
Concen: 43.681 ng
RT: 10.386 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16



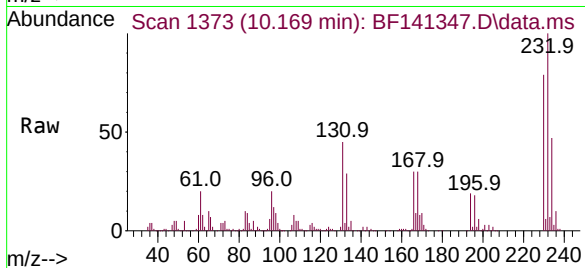
Tgt Ion:166 Resp: 812642
Ion Ratio Lower Upper
166 100
165 96.9 77.5 116.3
167 13.5 10.9 16.3





#59
2,3,4,6-Tetrachlorophenol
Concen: 48.719 ng
RT: 10.169 min Scan# 1372
Delta R.T. 0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

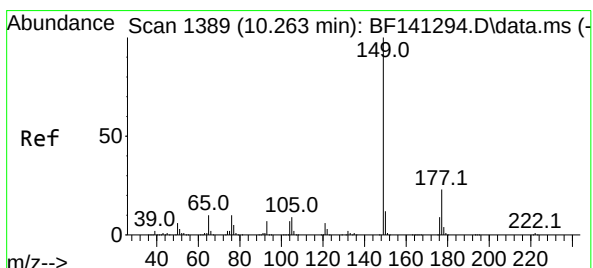
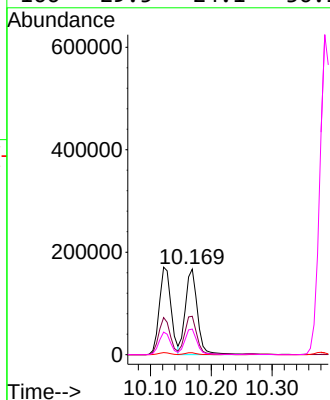
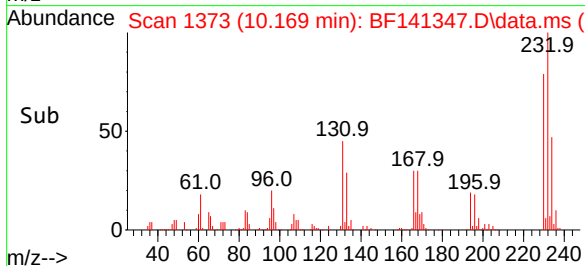
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



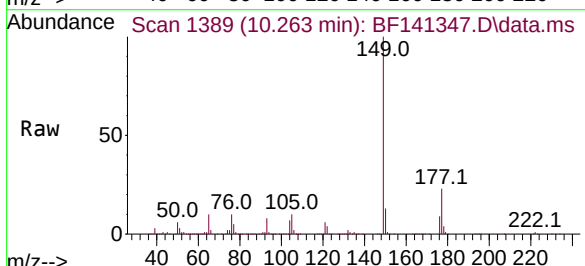
Tgt Ion:232 Resp: 228961
Ion Ratio Lower Upper
232 100
131 45.8 36.4 54.6
130 2.3 1.9 2.9
166 29.5 24.1 36.1

Manual Integrations
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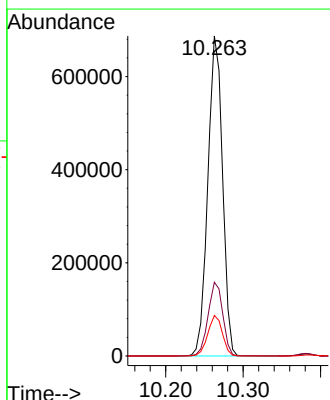
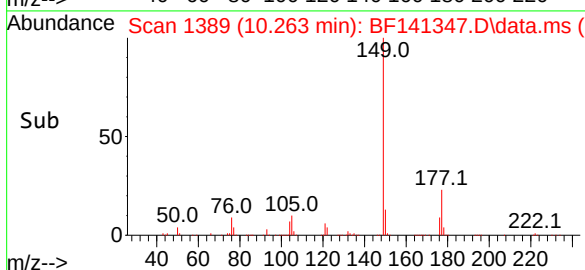
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

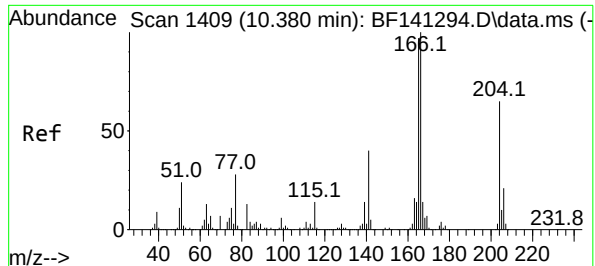


#60
Diethylphthalate
Concen: 46.907 ng
RT: 10.263 min Scan# 1389
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16



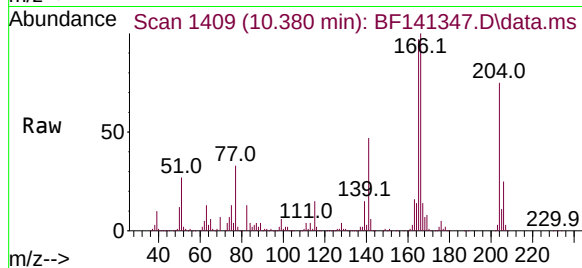
Tgt Ion:149 Resp: 905433
Ion Ratio Lower Upper
149 100
177 23.0 18.5 27.7
150 12.6 10.0 15.0





#61
4-Chlorophenyl-phenylether
Concen: 43.690 ng
RT: 10.380 min Scan# 1409
Delta R.T. -0.000 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

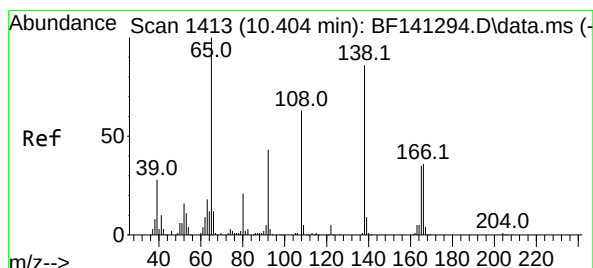
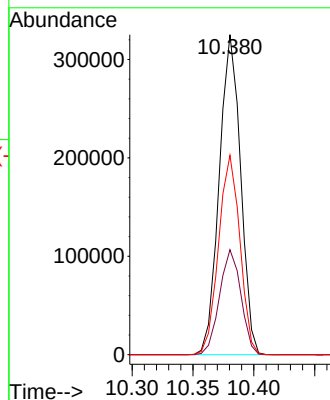
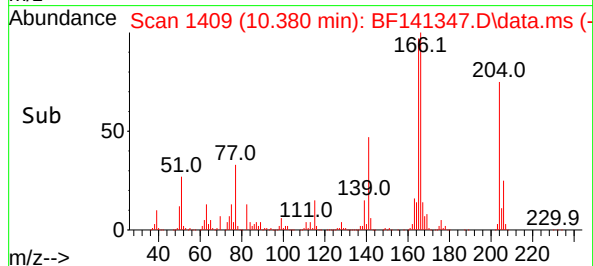
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



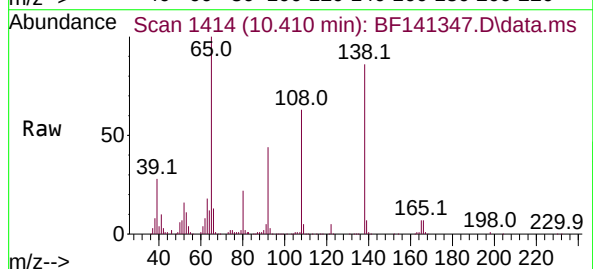
Tgt Ion:204 Resp: 397038
Ion Ratio Lower Upper
204 100
206 32.8 25.9 38.9
141 62.3 49.5 74.3

Manual Integrations
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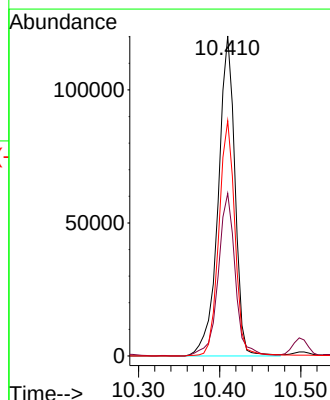
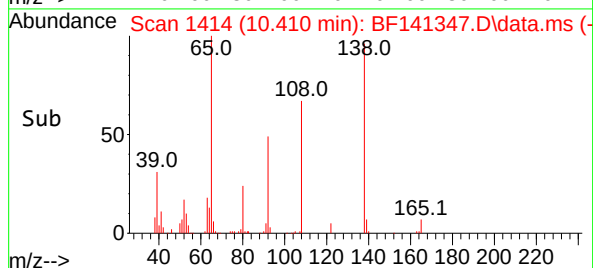
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

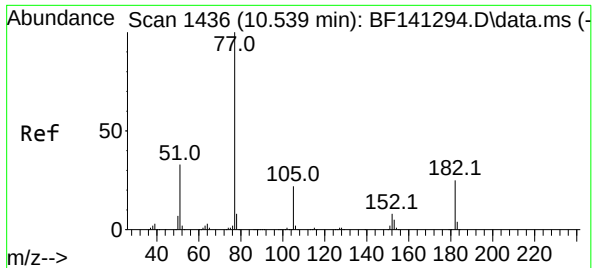


#62
4-Nitroaniline
Concen: 38.826 ng
RT: 10.410 min Scan# 1414
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16



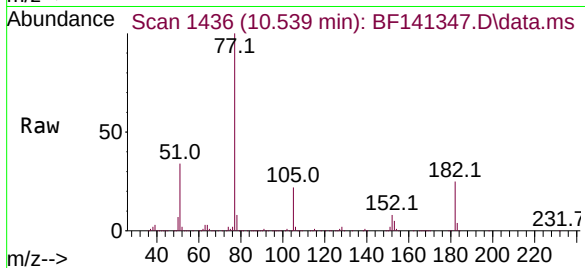
Tgt Ion:138 Resp: 172930
Ion Ratio Lower Upper
138 100
92 50.8 30.1 70.1
108 73.5 53.1 93.1





#63
Azobenzene
Concen: 45.453 ng
RT: 10.539 min Scan# 1436
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

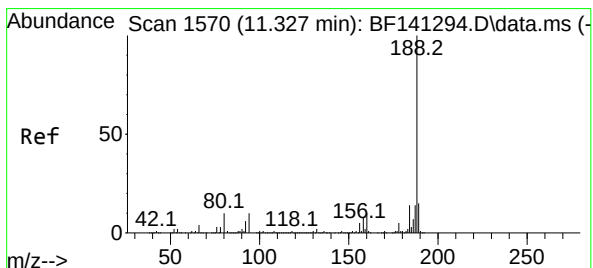
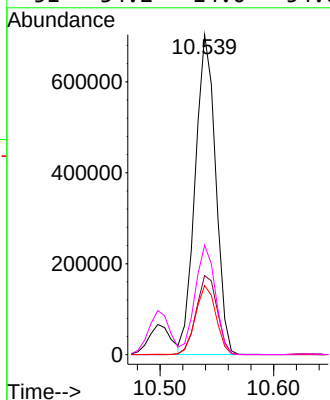
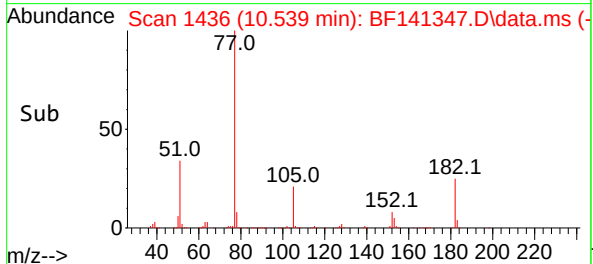
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



Tgt Ion: 77 Resp: 878229
Ion Ratio Lower Upper
77 100
182 24.7 5.1 45.1
105 21.6 1.8 41.8
51 34.2 14.0 54.0

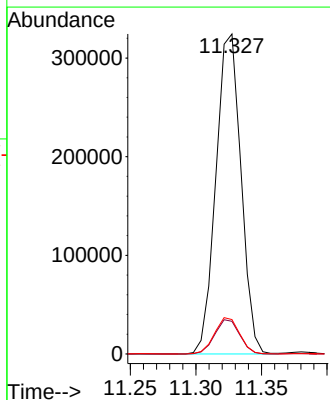
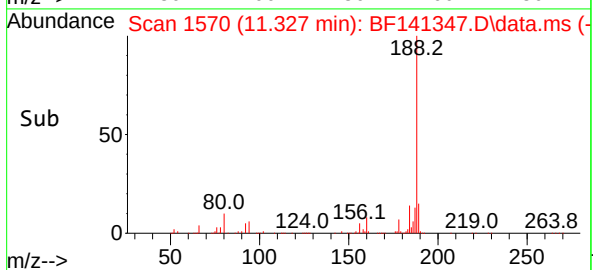
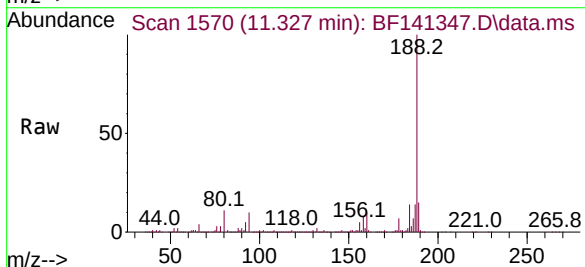
Manual Integrations
APPROVED

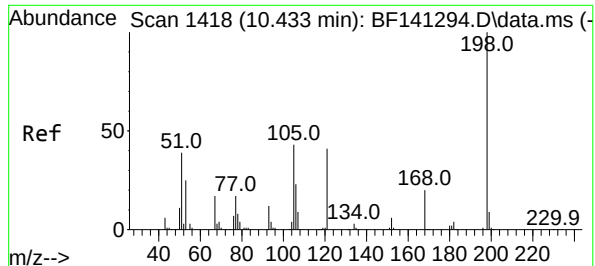
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.327 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

Tgt Ion:188 Resp: 431674
Ion Ratio Lower Upper
188 100
94 10.2 7.8 11.6
80 10.8 8.2 12.4





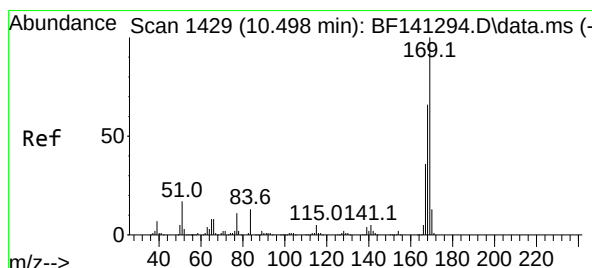
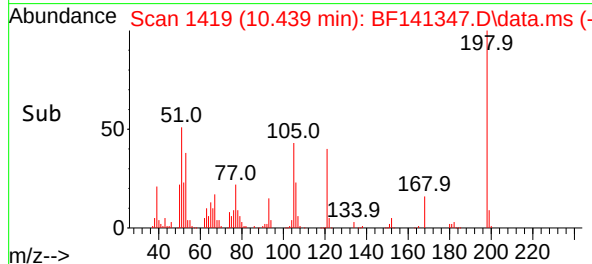
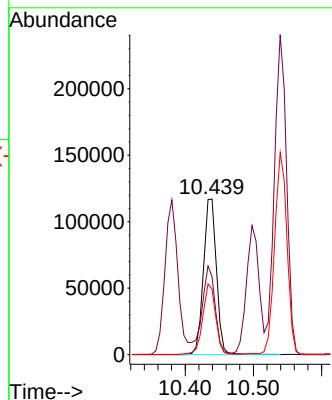
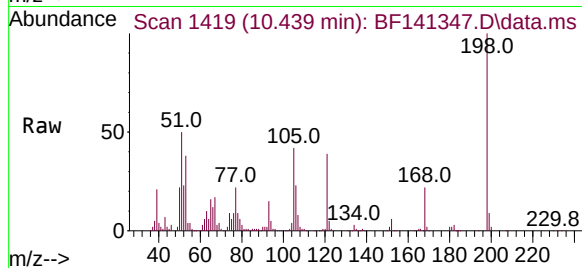
#65
4,6-Dinitro-2-methylphenol
Concen: 61.028 ng
RT: 10.439 min Scan# 1418
Delta R.T. -0.000 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

Instrument :
BNA_F
ClientSampleId :
VNJ-236MS

Tgt Ion:198 Resp: 155820
Ion Ratio Lower Upper
198 100
51 50.2 33.4 73.4
105 42.0 24.4 64.4

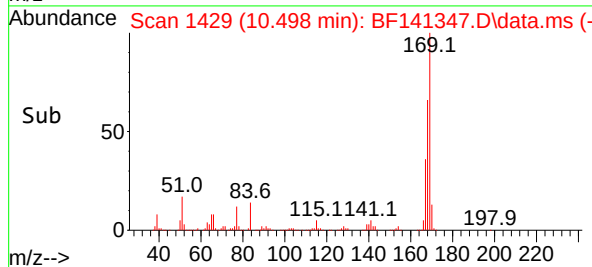
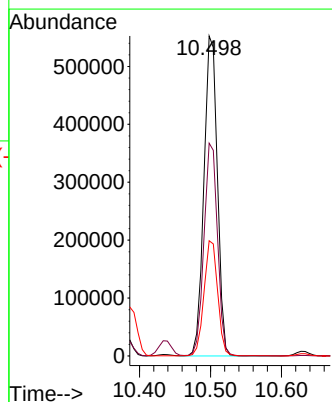
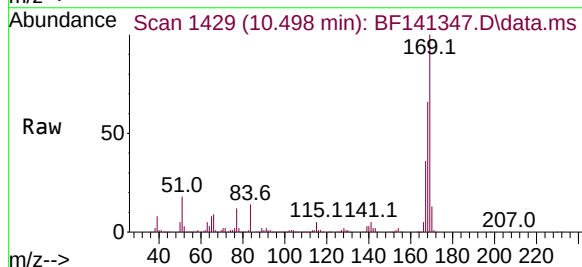
Manual Integrations
APPROVED

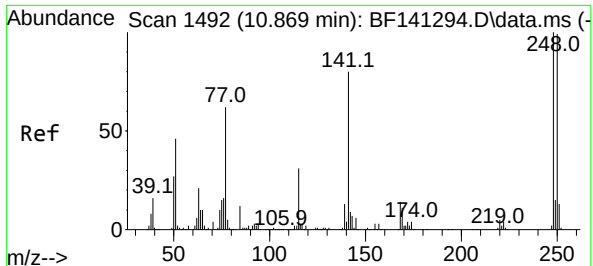
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#66
n-Nitrosodiphenylamine
Concen: 52.138 ng
RT: 10.498 min Scan# 1429
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

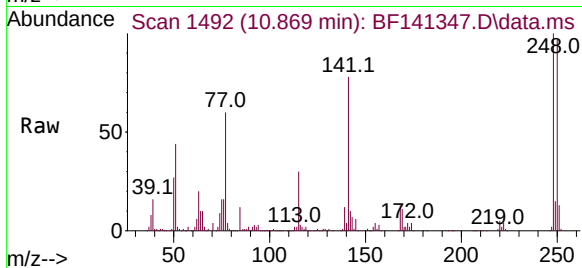
Tgt Ion:169 Resp: 727951
Ion Ratio Lower Upper
169 100
168 66.5 53.0 79.4
167 36.0 28.8 43.2





#67
4-Bromophenyl-phenylether
Concen: 51.986 ng
RT: 10.869 min Scan# 1492
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

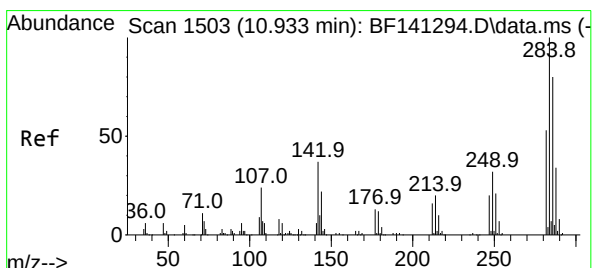
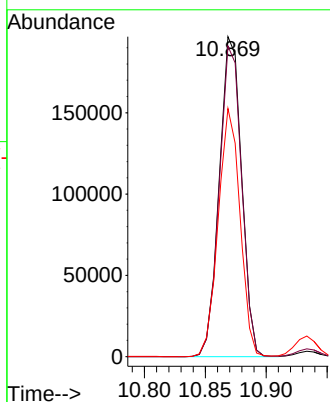
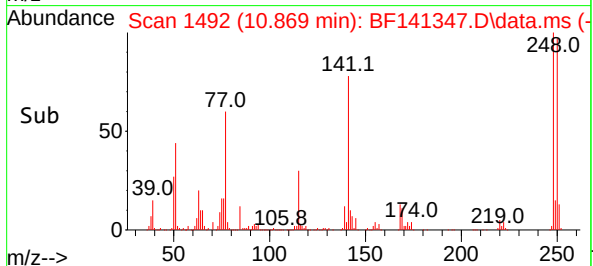
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



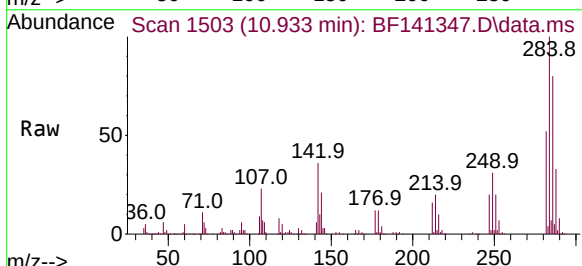
Tgt Ion:248 Resp: 251233
Ion Ratio Lower Upper
248 100
250 97.1 79.0 118.4
141 77.6 63.7 95.5

Manual Integrations
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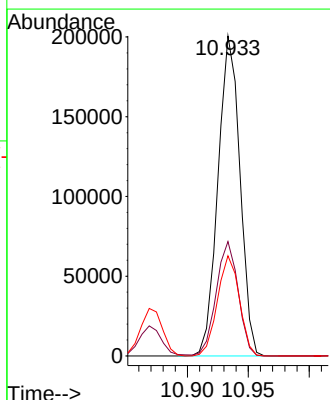
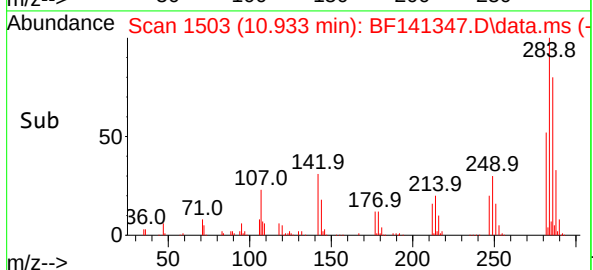
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

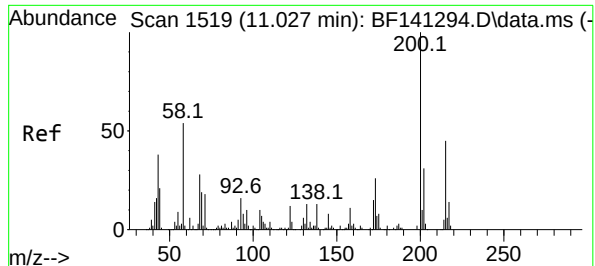


#68
Hexachlorobenzene
Concen: 49.180 ng
RT: 10.933 min Scan# 1503
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16



Tgt Ion:284 Resp: 252115
Ion Ratio Lower Upper
284 100
142 35.8 29.5 44.3
249 31.3 25.4 38.2





#69

Atrazine

Concen: 47.456 ng

RT: 11.027 min Scan# 1519

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:200 Resp: 221530

Ion Ratio Lower Upper

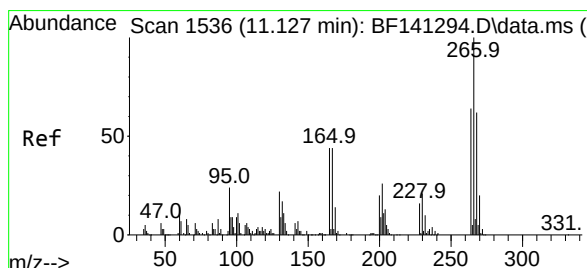
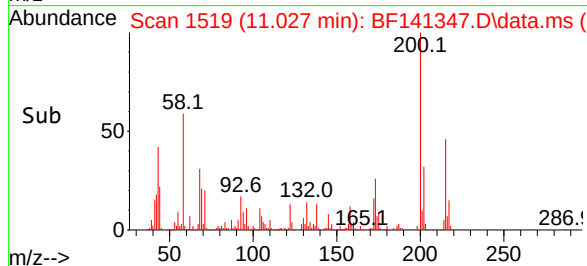
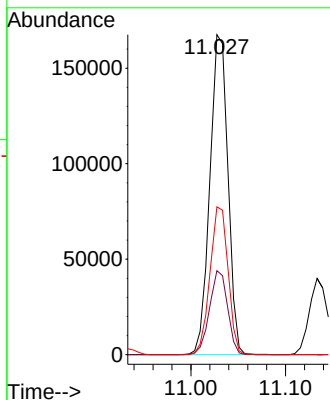
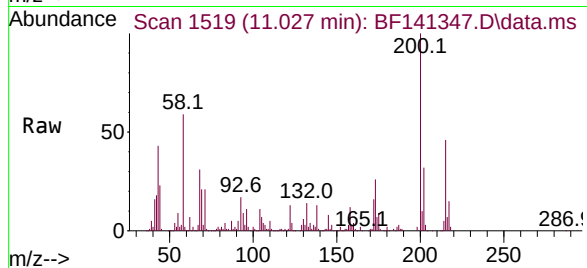
200 100

173 26.3 5.9 45.9

215 46.2 25.2 65.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#70

Pentachlorophenol

Concen: 94.369 ng

RT: 11.133 min Scan# 1537

Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

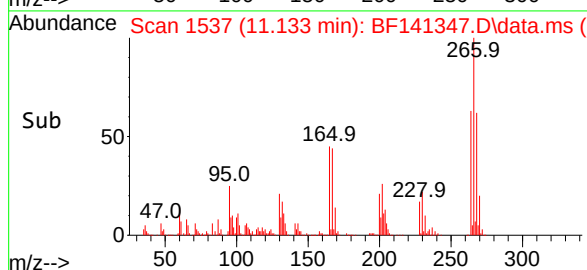
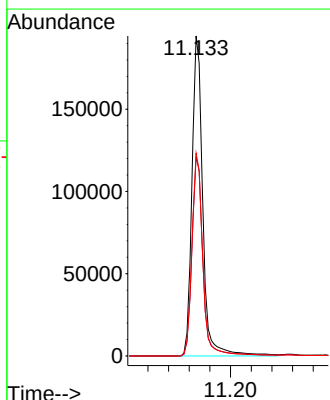
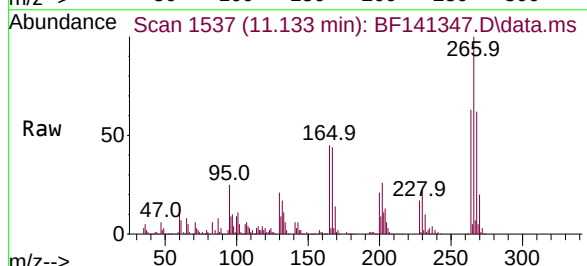
Tgt Ion:266 Resp: 283284

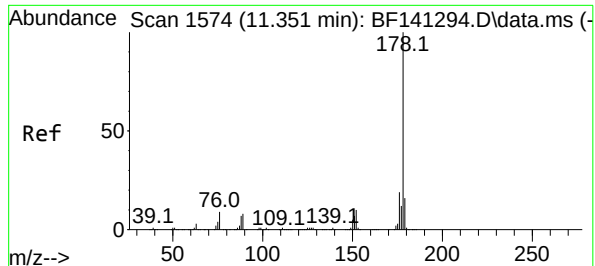
Ion Ratio Lower Upper

266 100

268 62.3 49.9 74.9

264 63.4 51.0 76.4





#71

Phenanthrene

Concen: 47.961 ng

RT: 11.351 min Scan# 1574

Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:178 Resp: 1112890

Ion Ratio Lower Upper

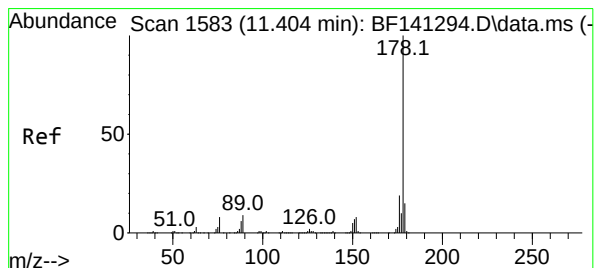
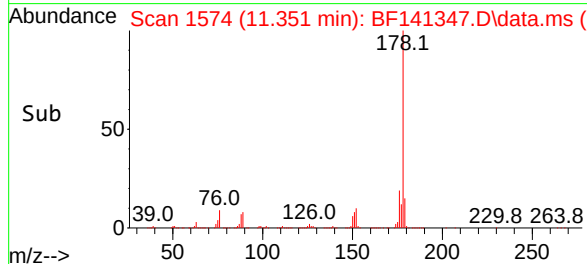
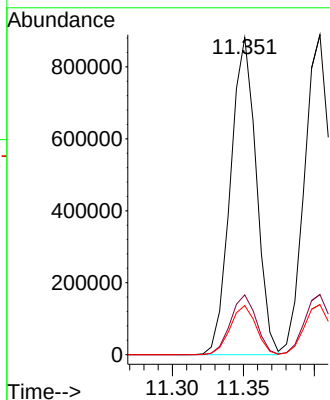
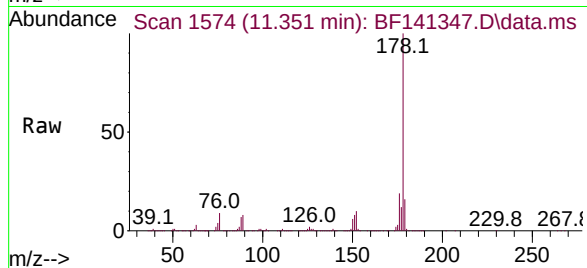
178 100

176 18.9 15.3 22.9

179 15.5 12.5 18.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#72

Anthracene

Concen: 49.626 ng

RT: 11.404 min Scan# 1583

Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

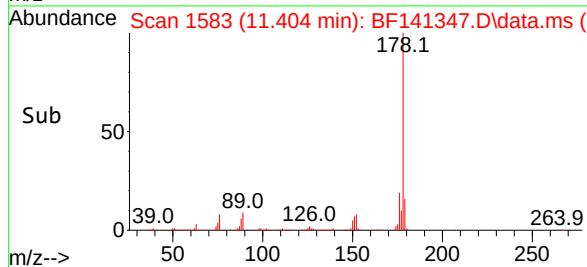
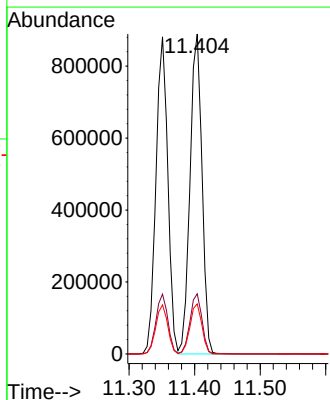
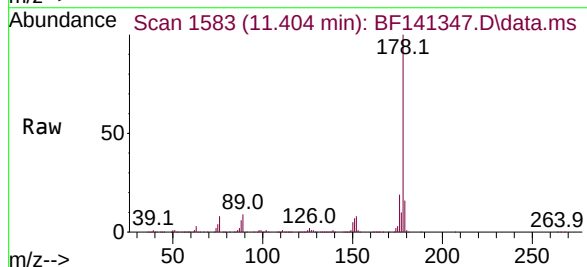
Tgt Ion:178 Resp: 1128306

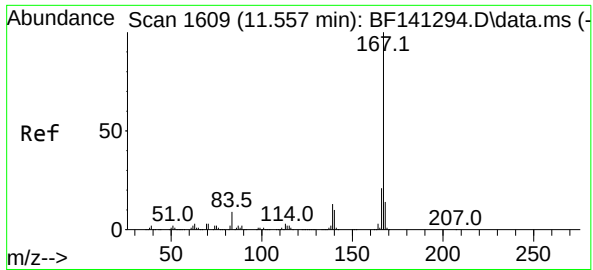
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

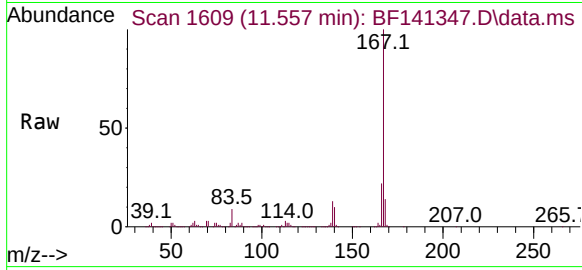
179 15.6 12.3 18.5





#73
Carbazole
Concen: 44.216 ng
RT: 11.557 min Scan# 1609
Delta R.T. -0.000 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

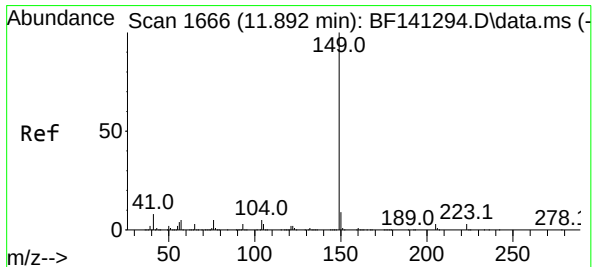
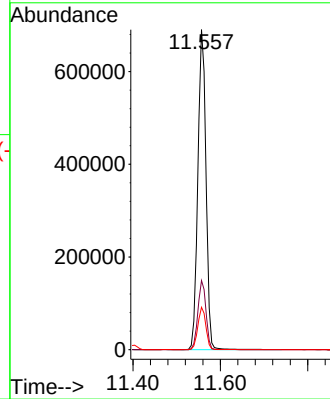
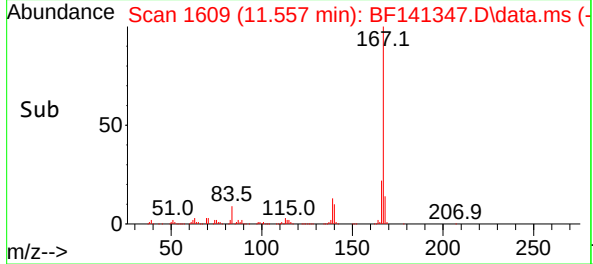
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



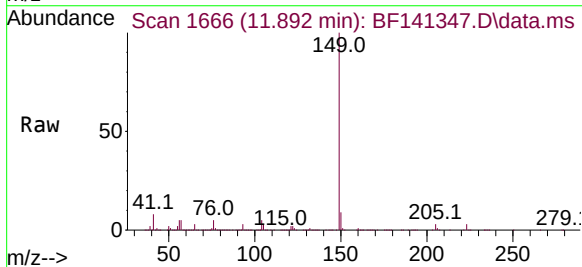
Tgt Ion:167 Resp: 891423
Ion Ratio Lower Upper
167 100
166 21.6 17.0 25.6
139 13.2 10.6 16.0

Manual Integrations
APPROVED

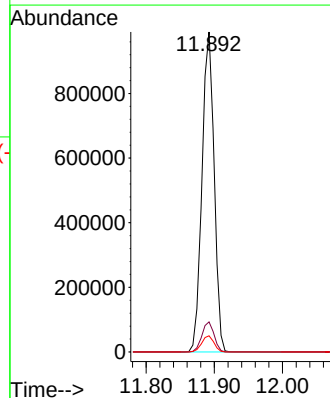
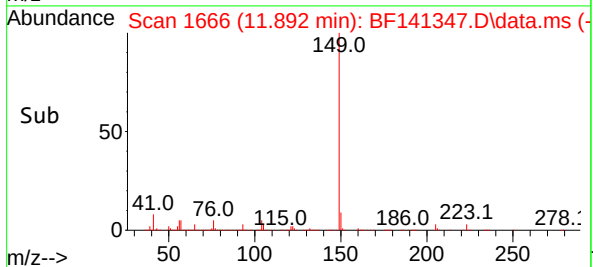
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

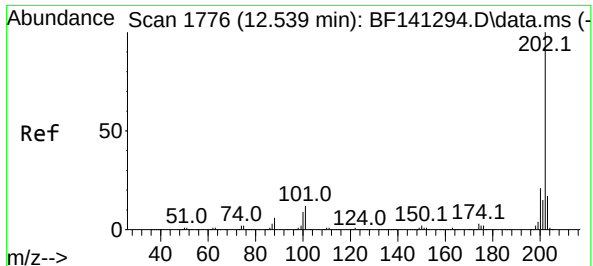


#74
Di-n-butylphthalate
Concen: 50.069 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16



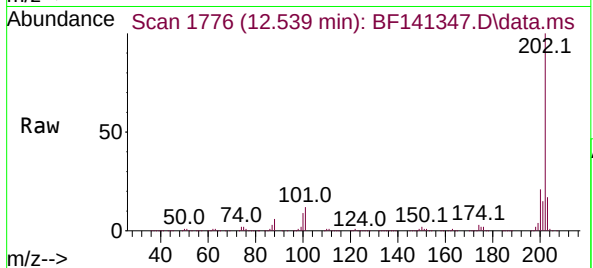
Tgt Ion:149 Resp: 1223292
Ion Ratio Lower Upper
149 100
150 9.4 7.4 11.2
104 5.0 3.9 5.9





#75
Fluoranthene
Concen: 42.559 ng
RT: 12.539 min Scan# 1776
Delta R.T. -0.000 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

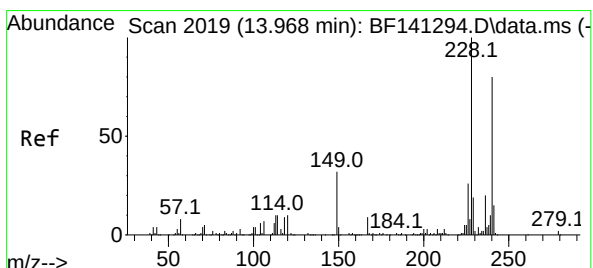
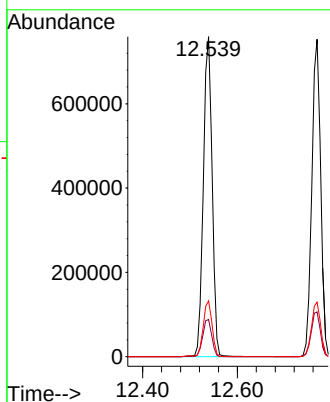
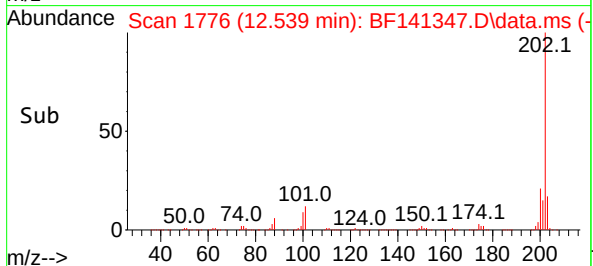
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



Tgt Ion:202 Resp: 97508
Ion Ratio Lower Upper
202 100
101 11.6 0.0 31.7
203 17.5 0.0 37.5

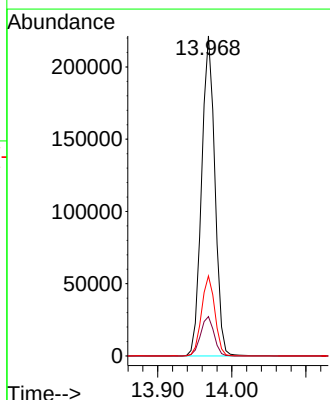
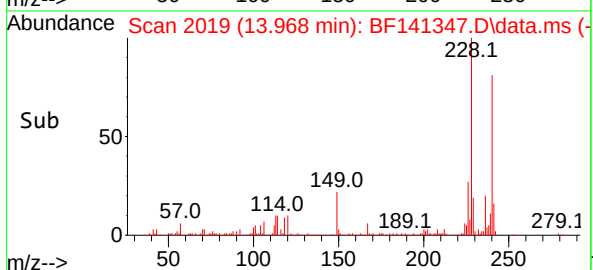
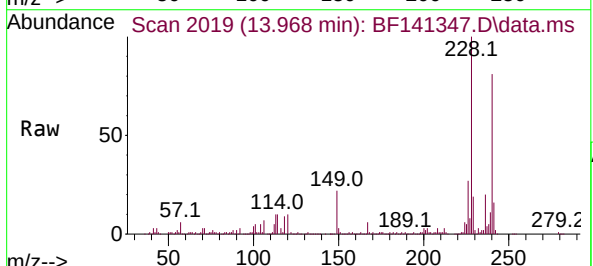
Manual Integrations
APPROVED

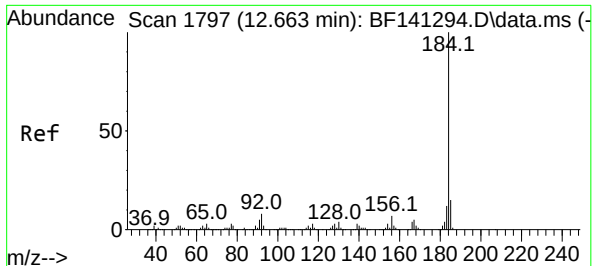
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

Tgt Ion:240 Resp: 275611
Ion Ratio Lower Upper
240 100
120 12.3 10.0 15.0
236 25.0 19.7 29.5





#77

Benzidine

Concen: 3.993 ng

RT: 12.669 min Scan# 1797

Delta R.T. 0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:184 Resp: 3528

Ion Ratio Lower Upper

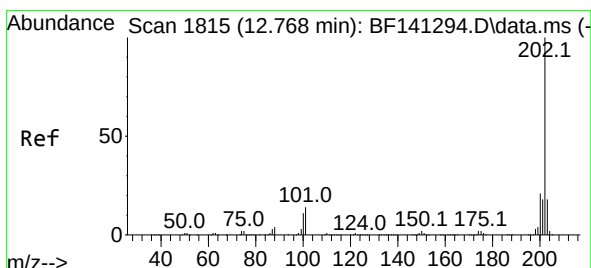
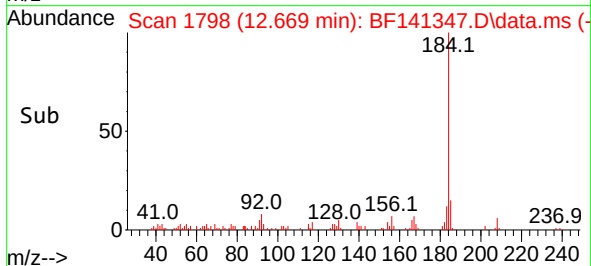
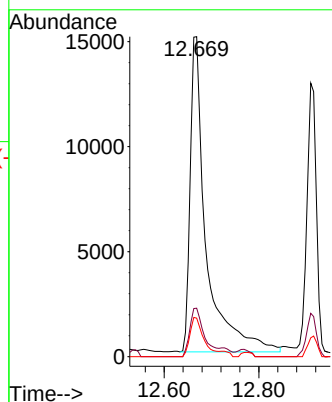
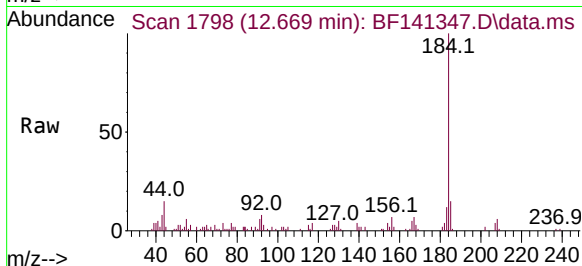
184 100

185 15.1 11.9 17.9

183 12.1 9.5 14.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#78

Pyrene

Concen: 37.075 ng

RT: 12.769 min Scan# 1815

Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

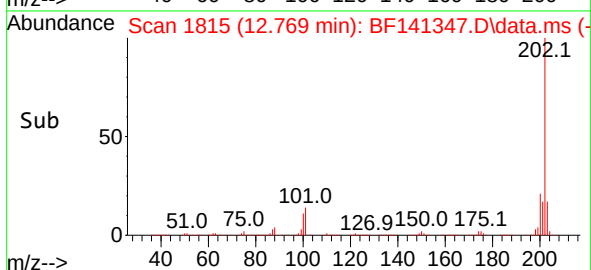
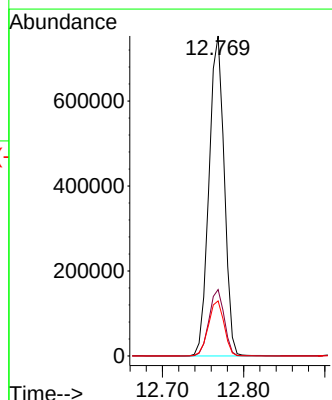
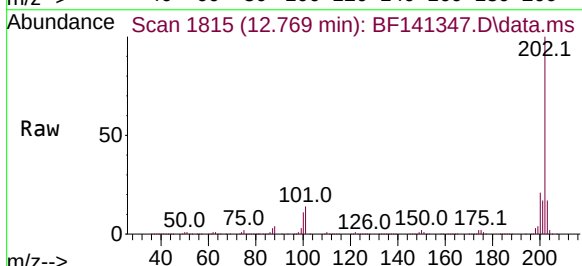
Tgt Ion:202 Resp: 980862

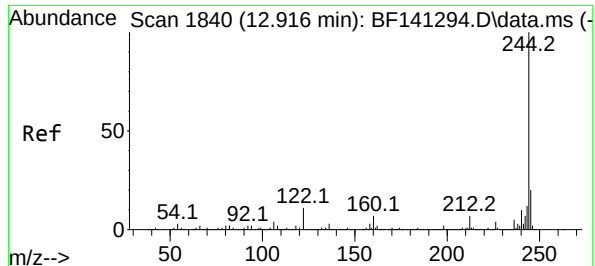
Ion Ratio Lower Upper

202 100

200 20.7 17.0 25.4

203 17.2 14.3 21.5





#79

Terphenyl-d14

Concen: 75.403 ng

RT: 12.916 min Scan# 1840

Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:244 Resp: 134755

Ion Ratio Lower Upper

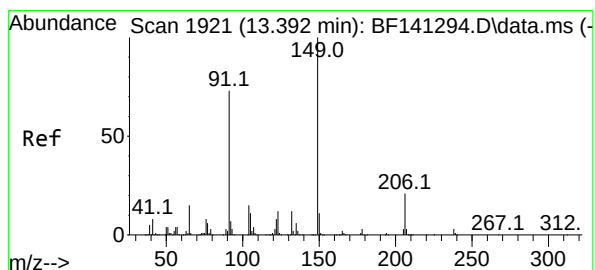
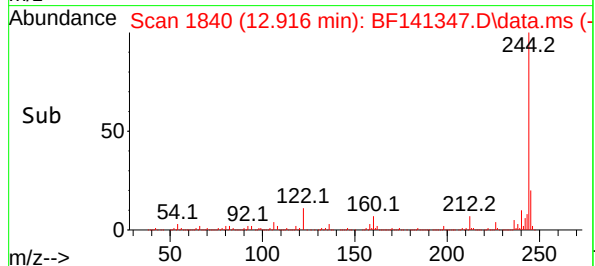
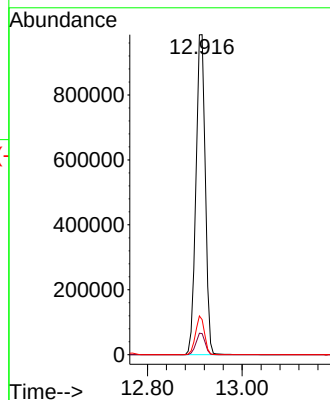
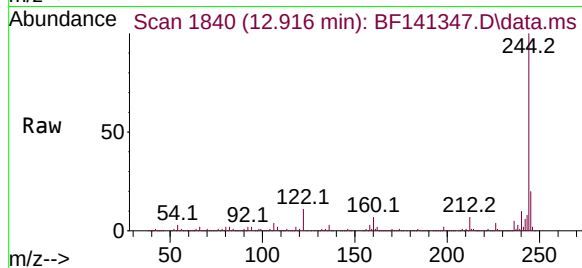
244 100

212 6.6 5.4 8.0

122 11.0 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#80

Butylbenzylphthalate

Concen: 44.700 ng

RT: 13.392 min Scan# 1921

Delta R.T. -0.000 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

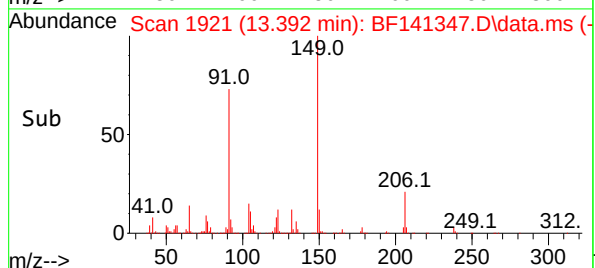
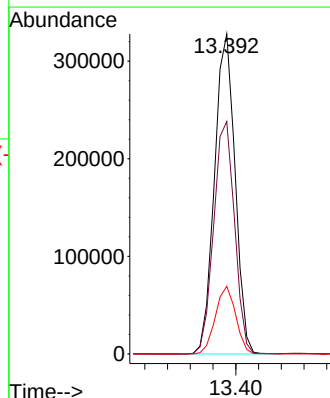
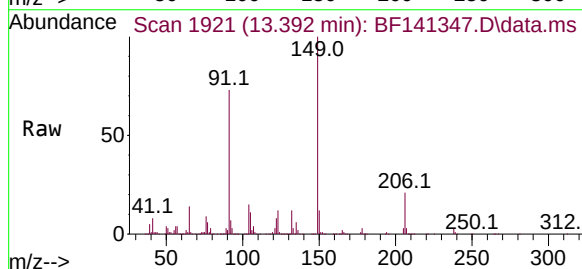
Tgt Ion:149 Resp: 413143

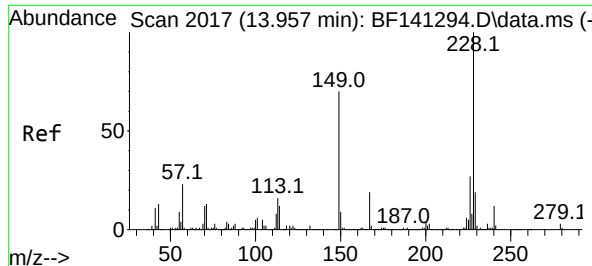
Ion Ratio Lower Upper

149 100

91 72.6 58.6 87.8

206 21.2 16.7 25.1





#81

Benzo(a)anthracene

Concen: 43.887 ng

RT: 13.957 min Scan# 2017

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:228 Resp: 834678

Ion Ratio Lower Upper

228 100

226 27.3 21.4 32.2

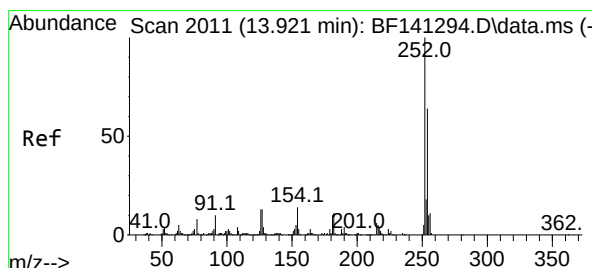
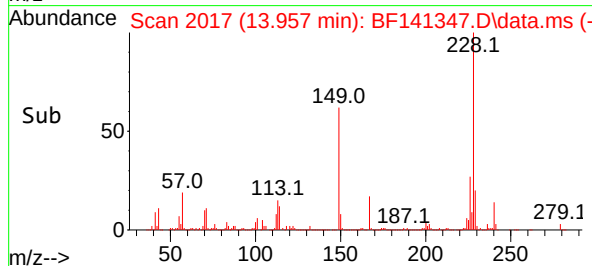
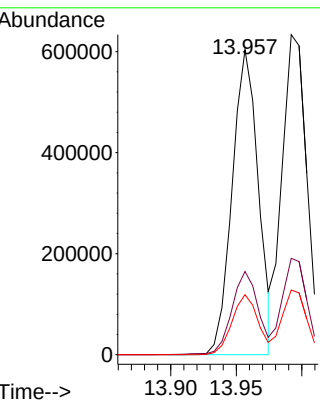
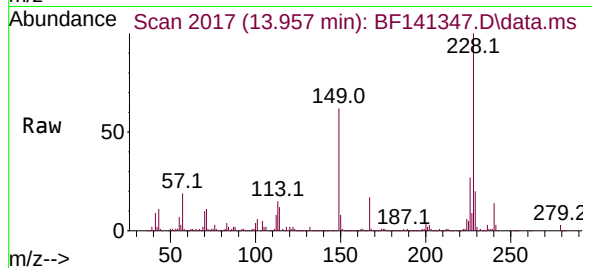
229 19.7 15.5 23.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025

Supervised By :mohammad ahmed 02/04/2025



#82

3,3'-Dichlorobenzidine

Concen: 23.764 ng

RT: 13.921 min Scan# 2011

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

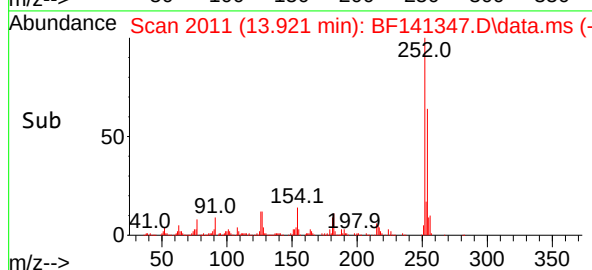
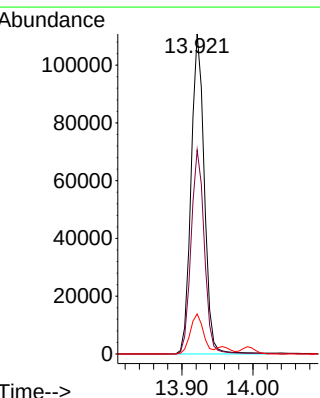
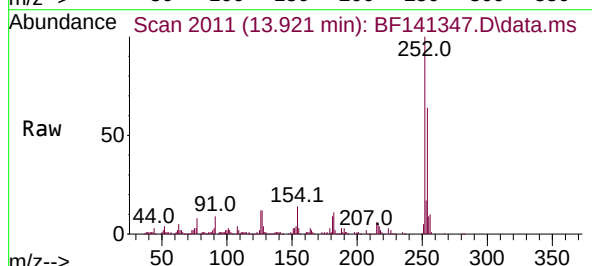
Tgt Ion:252 Resp: 143745

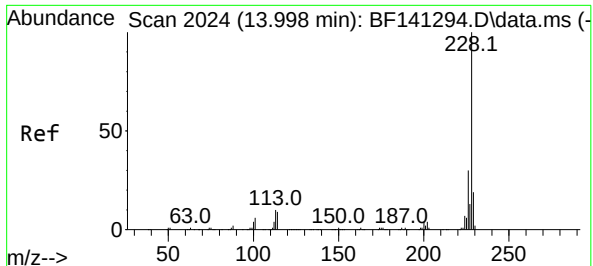
Ion Ratio Lower Upper

252 100

254 63.8 51.3 76.9

126 12.5 10.0 15.0





#83

Chrysene

Concen: 47.688 ng

RT: 13.992 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:228 Resp: 83120

Ion Ratio Lower Upper

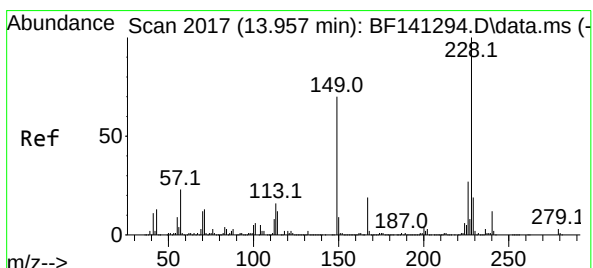
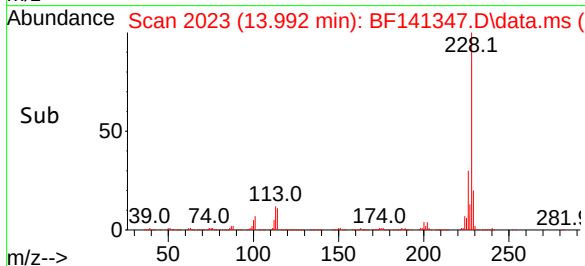
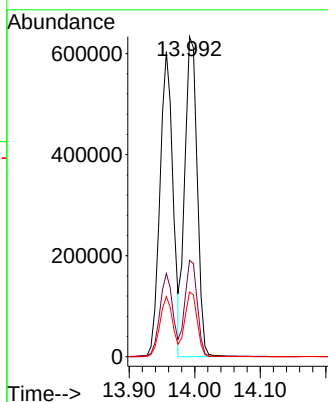
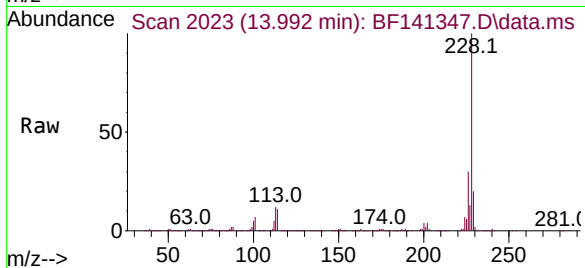
228 100

226 30.1 24.1 36.1

229 20.2 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#84

Bis(2-ethylhexyl)phthalate

Concen: 46.750 ng

RT: 13.951 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

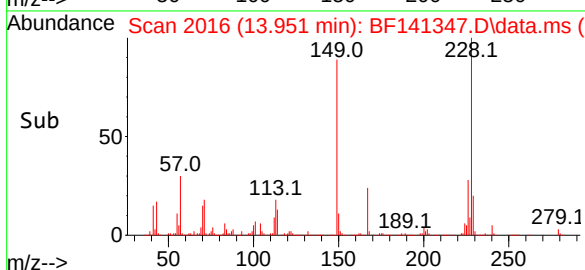
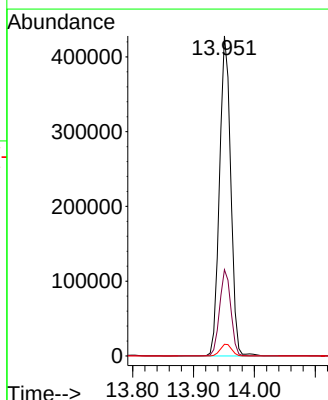
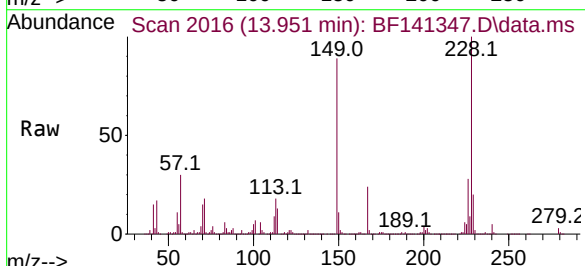
Tgt Ion:149 Resp: 548126

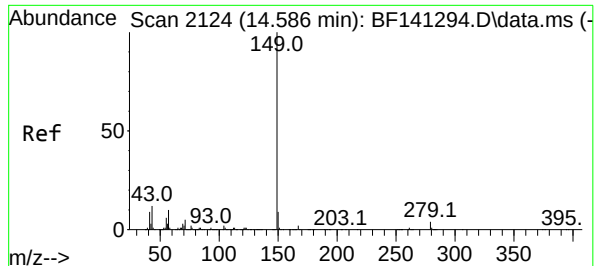
Ion Ratio Lower Upper

149 100

167 27.0 21.8 32.8

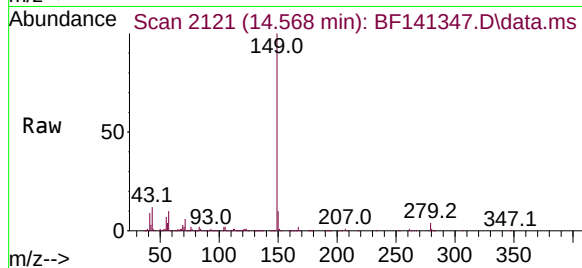
279 3.6 3.3 4.9





#85
Di-n-octyl phthalate
Concen: 54.682 ng
RT: 14.568 min Scan# 2124
Delta R.T. -0.018 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

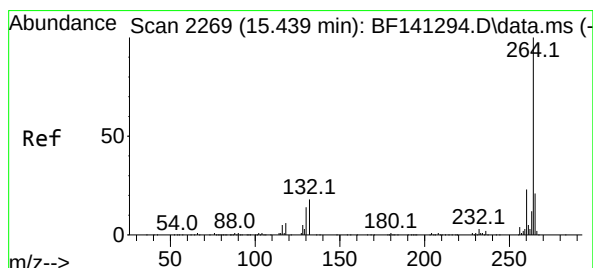
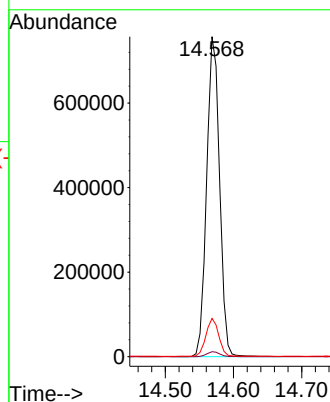
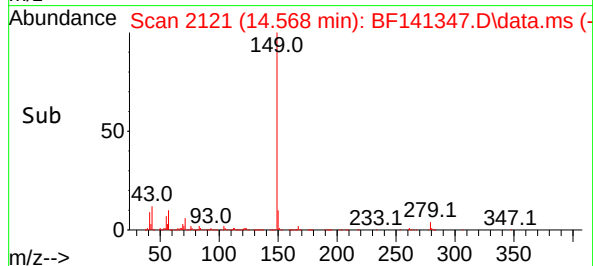
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



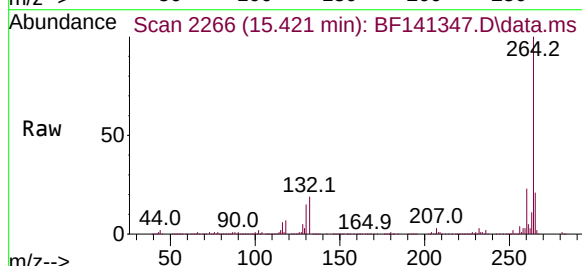
Tgt Ion:149 Resp: 995798
Ion Ratio Lower Upper
149 100
167 1.6 1.3 1.9
43 11.8 9.8 14.8

Manual Integrations
APPROVED

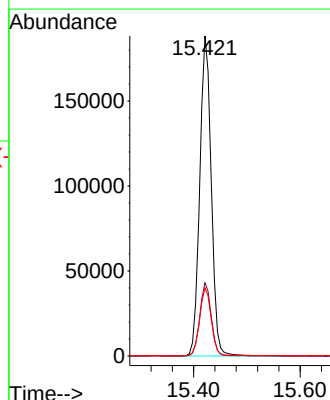
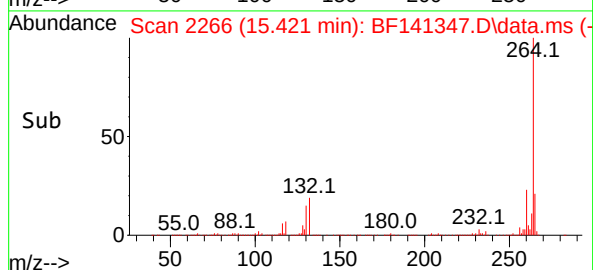
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

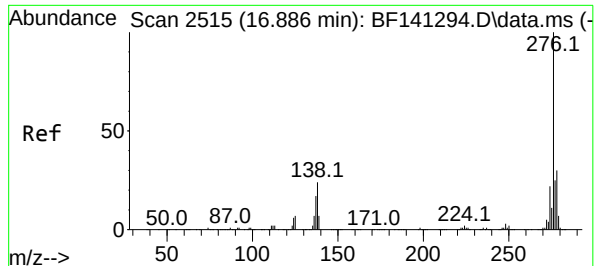


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.421 min Scan# 2266
Delta R.T. -0.018 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16



Tgt Ion:264 Resp: 282127
Ion Ratio Lower Upper
264 100
260 22.9 18.6 27.8
265 21.3 16.7 25.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 37.941 ng

RT: 16.868 min Scan# 2195

Delta R.T. -0.030 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

VNJ-236MS

Tgt Ion:276 Resp: 69086

Ion Ratio Lower Upper

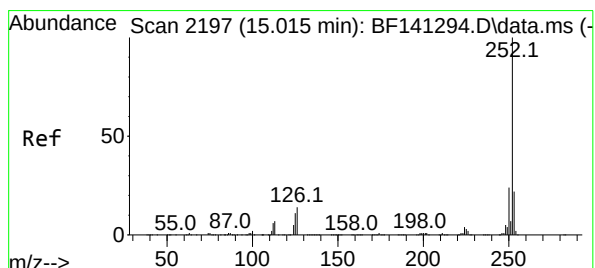
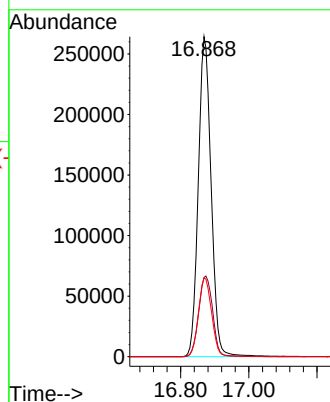
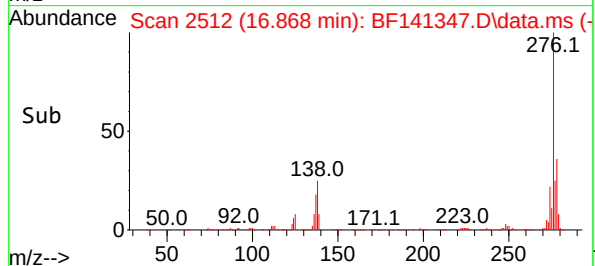
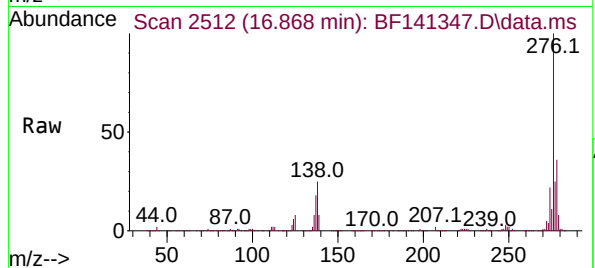
276 100

138 27.4 21.7 32.5

277 25.5 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#88

Benzo(b)fluoranthene

Concen: 48.369 ng

RT: 15.004 min Scan# 2195

Delta R.T. -0.018 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

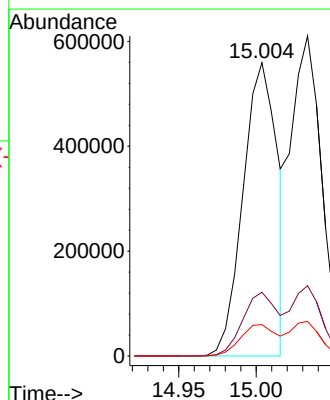
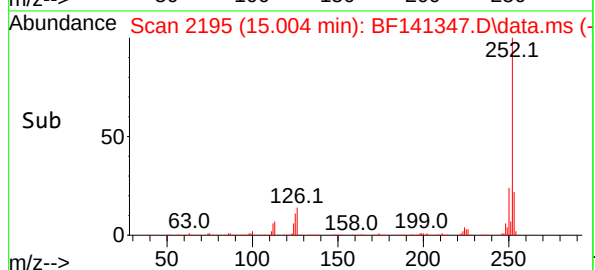
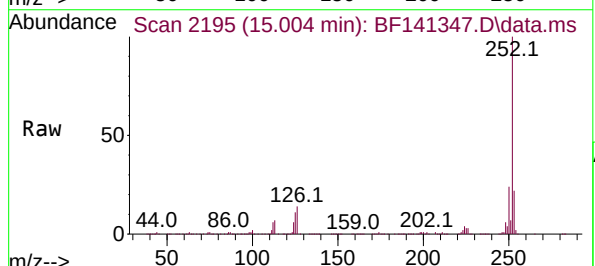
Tgt Ion:252 Resp: 858391

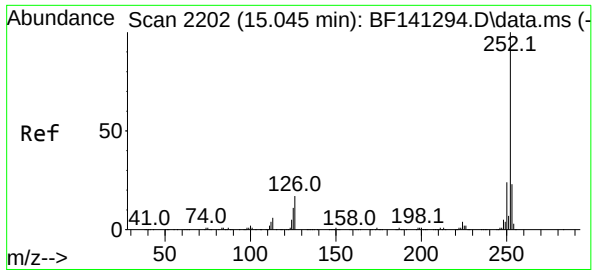
Ion Ratio Lower Upper

252 100

253 21.7 17.4 26.2

125 10.7 8.6 12.8





#89

Benzo(k)fluoranthene

Concen: 53.507 ng

RT: 15.033 min Scan# 21

Delta R.T. -0.018 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

Instrument :

BNA_F

ClientSampleId :

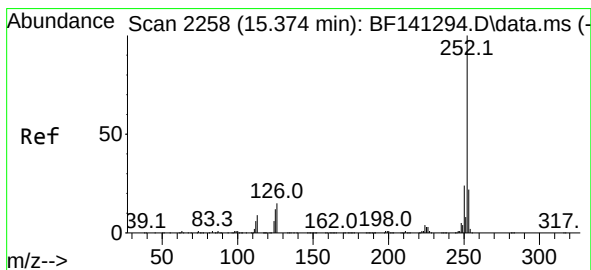
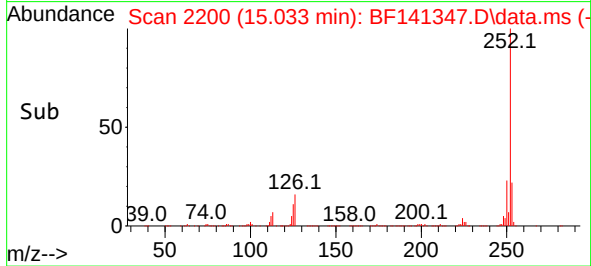
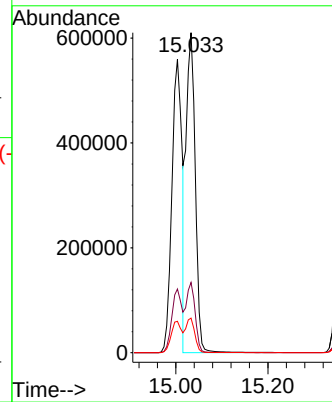
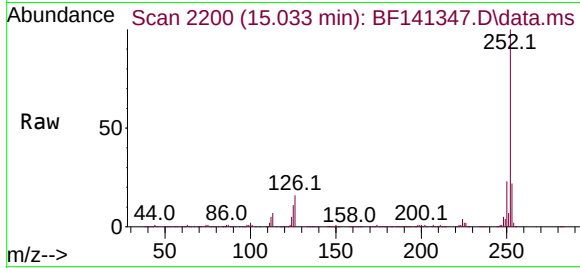
VNJ-236MS

Tgt Ion:	252	Resp:	84119
Ion Ratio	Lower	Upper	
252	100		
253	22.0	17.6	26.4
125	10.8	8.4	12.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#90

Benzo(a)pyrene

Concen: 51.485 ng

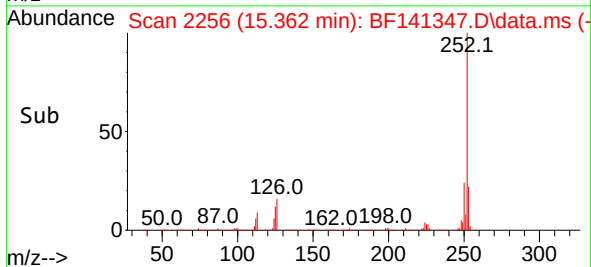
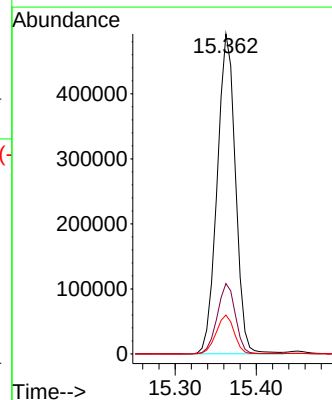
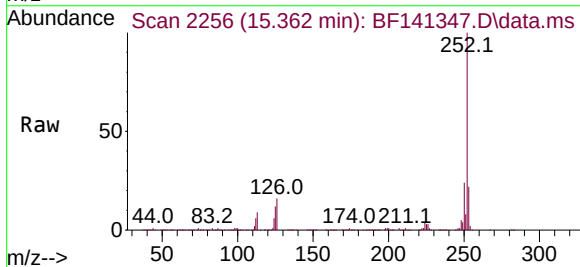
RT: 15.362 min Scan# 2256

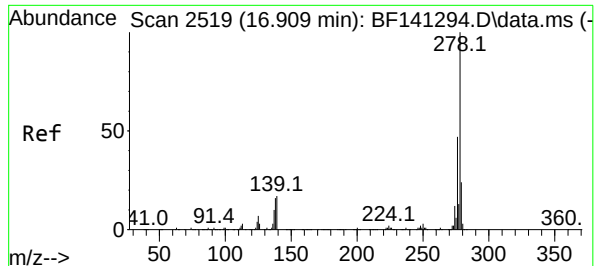
Delta R.T. -0.018 min

Lab File: BF141347.D

Acq: 31 Jan 2025 22:16

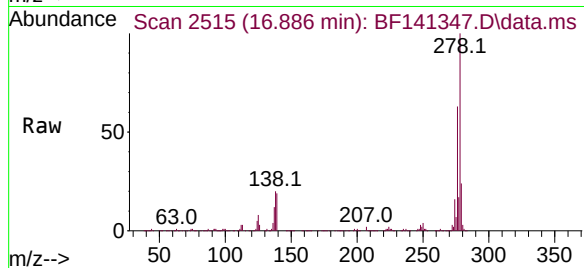
Tgt Ion:	252	Resp:	772098
Ion Ratio	Lower	Upper	
252	100		
253	22.0	17.2	25.8
125	12.2	9.4	14.2





#91
Dibenzo(a,h)anthracene
Concen: 38.364 ng
RT: 16.886 min Scan# 2519
Delta R.T. -0.035 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16

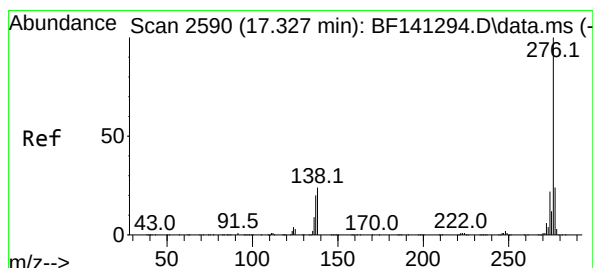
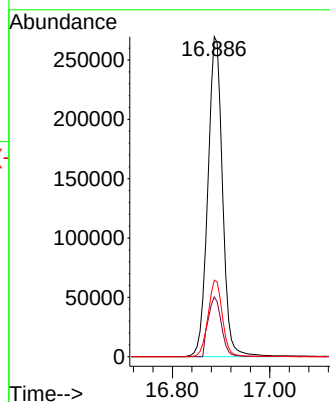
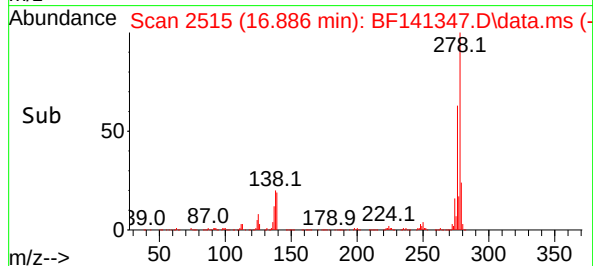
Instrument :
BNA_F
ClientSampleId :
VNJ-236MS



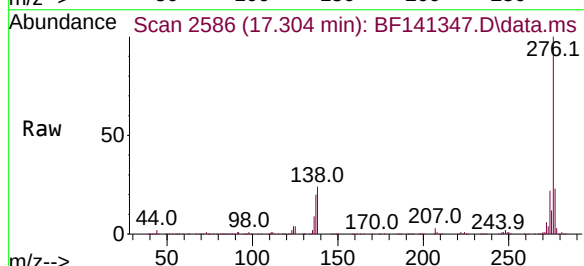
Tgt Ion: 278 Resp: 562028
Ion Ratio Lower Upper
278 100
139 18.7 13.9 20.9
279 23.9 18.8 28.2

Manual Integrations
APPROVED

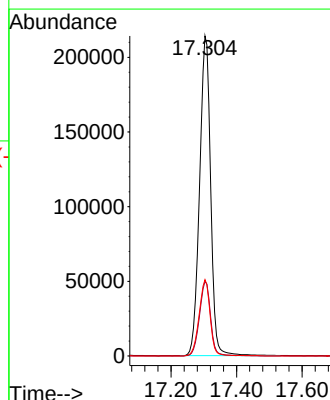
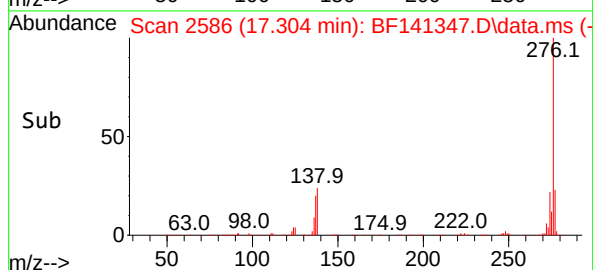
Reviewed By : Jagrut Upadhyay 02/03/2025
Supervised By : mohammad ahmed 02/04/2025



#92
Benzo(g,h,i)perylene
Concen: 33.036 ng
RT: 17.304 min Scan# 2586
Delta R.T. -0.041 min
Lab File: BF141347.D
Acq: 31 Jan 2025 22:16



Tgt Ion: 276 Resp: 503231
Ion Ratio Lower Upper
276 100
277 23.3 19.2 28.8
138 23.9 19.0 28.4



Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	VNJ-236MSD	SDG No.:	Q1207
Lab Sample ID:	Q1205-02MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141348.D	1	01/29/25 12:35	01/31/25 22:43	PB166354

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
110-86-1	Pyridine	360		15.5	50.0	ug/L
106-46-7	1,4-Dichlorobenzene	360		8.40	50.0	ug/L
95-48-7	2-Methylphenol	370		11.3	50.0	ug/L
65794-96-9	3+4-Methylphenols	400		11.5	100	ug/L
67-72-1	Hexachloroethane	360		10.1	50.0	ug/L
98-95-3	Nitrobenzene	360		12.7	50.0	ug/L
87-68-3	Hexachlorobutadiene	360		12.7	50.0	ug/L
88-06-2	2,4,6-Trichlorophenol	390		8.90	50.0	ug/L
95-95-4	2,4,5-Trichlorophenol	380		10.1	50.0	ug/L
121-14-2	2,4-Dinitrotoluene	370		15.2	50.0	ug/L
118-74-1	Hexachlorobenzene	410		11.4	50.0	ug/L
87-86-5	Pentachlorophenol	770		18.5	100	ug/L
SURROGATES						
367-12-4	2-Fluorophenol	112		10 - 139	75%	SPK: 150
13127-88-3	Phenol-d6	103		10 - 134	69%	SPK: 150
4165-60-0	Nitrobenzene-d5	85.5		49 - 133	86%	SPK: 100
321-60-8	2-Fluorobiphenyl	80.9		52 - 132	81%	SPK: 100
118-79-6	2,4,6-Tribromophenol	119		44 - 137	79%	SPK: 150
1718-51-0	Terphenyl-d14	69.4		48 - 125	69%	SPK: 100
INTERNAL STANDARDS						
3855-82-1	1,4-Dichlorobenzene-d4	154000		6.798		
1146-65-2	Naphthalene-d8	606000		8.081		
15067-26-2	Acenaphthene-d10	316000		9.839		
1517-22-2	Phenanthrene-d10	462000		11.327		
1719-03-5	Chrysene-d12	295000		13.968		
1520-96-3	Perylene-d12	279000		15.421		

Report of Analysis

Client:	RU2 Engineering, LLC	Date Collected:	01/28/25
Project:	NYCDDC SANTWOBR Brooklyn Bridge BBMCR	Date Received:	01/28/25
Client Sample ID:	VNJ-236MSD	SDG No.:	Q1207
Lab Sample ID:	Q1205-02MSD	Matrix:	TCLP
Analytical Method:	SW8270	% Solid:	0
Sample Wt/Vol:	100 Units: mL	Final Vol:	1000 uL
Soil Aliquot Vol:	uL	Test:	TCLP BNA
Extraction Type :	Decanted : N	Level :	LOW
Injection Volume :	GPC Factor : 1.0	GPC Cleanup :	N PH :
Prep Method :	SW3510C		

File ID/Qc Batch:	Dilution:	Prep Date	Date Analyzed	Prep Batch ID
BF141348.D	1	01/29/25 12:35	01/31/25 22:43	PB166354

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\BF013125\
 Data File : BF141348.D
 Acq On : 31 Jan 2025 22:43
 Operator : RC/JU
 Sample : Q1205-02MSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
 Supervised By :mohammad ahmed 02/04/2025

Quant Time: Feb 01 00:04:24 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 17:41:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	153925	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	605647	20.000	ng	0.00
39) Acenaphthene-d10	9.839	164	316012	20.000	ng	0.00
64) Phenanthrene-d10	11.327	188	461856	20.000	ng	0.00
76) Chrysene-d12	13.968	240	294849	20.000	ng	0.00
86) Perylene-d12	15.421	264	278615	20.000	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.434	112	1124167	112.121	ng	0.02
7) Phenol-d6	6.445	99	1319858	103.479	ng	0.00
23) Nitrobenzene-d5	7.363	82	982578	85.525	ng	0.00
42) 2,4,6-Tribromophenol	10.633	330	344857	119.035	ng	0.00
45) 2-Fluorobiphenyl	9.157	172	1660558	80.880	ng	0.00
79) Terphenyl-d14	12.910	244	1326215	69.367	ng	0.00
Target Compounds						
2) 1,4-Dioxane	2.675	88	181546	41.171	ng	# 82
3) Pyridine	3.375	79	379676	35.736	ng	99
4) n-Nitrosodimethylamine	3.310	42	233543	38.479	ng	98
6) Aniline	6.463	93	65044	6.024	ng	# 1
8) 2-Chlorophenol	6.592	128	418220	38.917	ng	97
9) Benzaldehyde	6.351	77	147390	19.950	ng	99
10) Phenol	6.457	94	485596	35.915	ng	98
11) bis(2-Chloroethyl)ether	6.534	93	401530	38.732	ng	99
12) 1,3-Dichlorobenzene	6.739	146	434626	36.680	ng	99
13) 1,4-Dichlorobenzene	6.816	146	432210	36.309	ng	100
14) 1,2-Dichlorobenzene	6.969	146	409687	36.755	ng	99
15) Benzyl Alcohol	6.945	79	310003	35.565	ng	99
16) 2,2'-oxybis(1-Chloropr...	7.075	45	663014	36.778	ng	51
17) 2-Methylphenol	7.069	107	320489	36.694	ng	# 88
18) Hexachloroethane	7.310	117	157617	35.893	ng	98
19) n-Nitroso-di-n-propyla...	7.216	70	295696	39.016	ng	97
20) 3+4-Methylphenols	7.228	107	433449	40.418	ng	# 64
22) Acetophenone	7.210	105	625566	43.454	ng	# 92
24) Nitrobenzene	7.386	77	428974	36.030	ng	98
25) Isophorone	7.622	82	773765	38.962	ng	99
26) 2-Nitrophenol	7.698	139	220556	39.280	ng	99
27) 2,4-Dimethylphenol	7.745	122	352717m	49.352	ng	
28) bis(2-Chloroethoxy)met...	7.833	93	481111	37.979	ng	100
29) 2,4-Dichlorophenol	7.951	162	338188	38.652	ng	99
30) 1,2,4-Trichlorobenzene	8.022	180	357239	35.752	ng	100
31) Naphthalene	8.104	128	1170409	36.581	ng	100
32) Benzoic acid	7.869	122	301460	45.884	ng	99
33) 4-Chloroaniline	8.163	127	28448	2.622	ng	98
34) Hexachlorobutadiene	8.222	225	211361	36.070	ng	100
35) Caprolactam	8.522	113	118115	41.336	ng	99
36) 4-Chloro-3-methylphenol	8.651	107	346469	36.917	ng	97
37) 2-Methylnaphthalene	8.792	142	737042	36.244	ng	99
38) 1-Methylnaphthalene	8.892	142	709128	35.500	ng	100
40) 1,2,4,5-Tetrachloroben...	8.963	216	374767	41.686	ng	99
41) Hexachlorocyclopentadiene	8.945	237	419287	157.920	ng	100
43) 2,4,6-Trichlorophenol	9.080	196	230467	39.166	ng	99

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF013125\
 Data File : BF141348.D
 Acq On : 31 Jan 2025 22:43
 Operator : RC/JU
 Sample : Q1205-02MSD
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
 Supervised By :mohammad ahmed 02/04/2025

Quant Time: Feb 01 00:04:24 2025

Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Wed Jan 29 17:41:25 2025

Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,4,5-Trichlorophenol	9.133	196	240626	37.571	ng	99
46) 1,1'-Biphenyl	9.257	154	1033995	41.955	ng	99
47) 2-Chloronaphthalene	9.286	162	705166	36.709	ng	98
48) 2-Nitroaniline	9.380	65	218096	36.096	ng	97
49) Acenaphthylene	9.698	152	1075589	40.000	ng	100
50) Dimethylphthalate	9.563	163	832211	38.992	ng	100
51) 2,6-Dinitrotoluene	9.622	165	181148	36.554	ng	98
52) Acenaphthene	9.869	154	805823m	41.948	ng	
53) 3-Nitroaniline	9.792	138	27986	5.762	ng	98
54) 2,4-Dinitrophenol	9.904	184	214844	93.262	ng	99
55) Dibenzofuran	10.045	168	961594	37.396	ng	99
56) 4-Nitrophenol	9.975	139	210065	59.137	ng	96
57) 2,4-Dinitrotoluene	10.027	165	235937	36.772	ng	98
58) Fluorene	10.386	166	722818	36.239	ng	99
59) 2,3,4,6-Tetrachlorophenol	10.169	232	200181	39.730	ng	99
60) Diethylphthalate	10.263	149	789240	38.137	ng	99
61) 4-Chlorophenyl-phenyle...	10.380	204	354621	36.398	ng	99
62) 4-Nitroaniline	10.404	138	105426	22.078	ng	100
63) Azobenzene	10.539	77	764030	36.883	ng	100
65) 4,6-Dinitro-2-methylph...	10.433	198	131181	48.019	ng	98
66) n-Nitrosodiphenylamine	10.498	169	475837	31.854	ng	99
67) 4-Bromophenyl-phenylether	10.869	248	220189	42.585	ng	97
68) Hexachlorobenzene	10.933	284	223703	40.786	ng	100
69) Atrazine	11.027	200	137528	27.536	ng	99
70) Pentachlorophenol	11.133	266	248426	77.349	ng	98
71) Phenanthrene	11.351	178	968305	39.003	ng	100
72) Anthracene	11.404	178	985565	40.515	ng	99
73) Carbazole	11.557	167	638050	29.580	ng	100
74) Di-n-butylphthalate	11.892	149	1070897	40.967	ng	100
75) Fluoranthene	12.539	202	824031	33.615	ng	100
77) Benzidine	12.674	184	47241	4.998	ng	97
78) Pyrene	12.768	202	829915	29.323	ng	99
80) Butylbenzylphthalate	13.392	149	347341	35.128	ng	98
81) Benzo(a)anthracene	13.957	228	711602	34.975	ng	100
82) 3,3'-Dichlorobenzidine	13.921	252	27766	4.291	ng	98
83) Chrysene	13.992	228	696803	37.369	ng	100
84) Bis(2-ethylhexyl)phtha...	13.951	149	461252	36.774	ng	99
85) Di-n-octyl phthalate	14.568	149	823011	42.245	ng	99
87) Indeno(1,2,3-cd)pyrene	16.862	276	526992	29.306	ng	99
88) Benzo(b)fluoranthene	14.998	252	770818	43.982	ng	99
89) Benzo(k)fluoranthene	15.027	252	619290	39.888	ng	99
90) Benzo(a)pyrene	15.362	252	618980	41.795	ng	99
91) Dibenzo(a,h)anthracene	16.880	278	436328	30.159	ng	99
92) Benzo(g,h,i)perylene	17.298	276	398331	26.479	ng	100

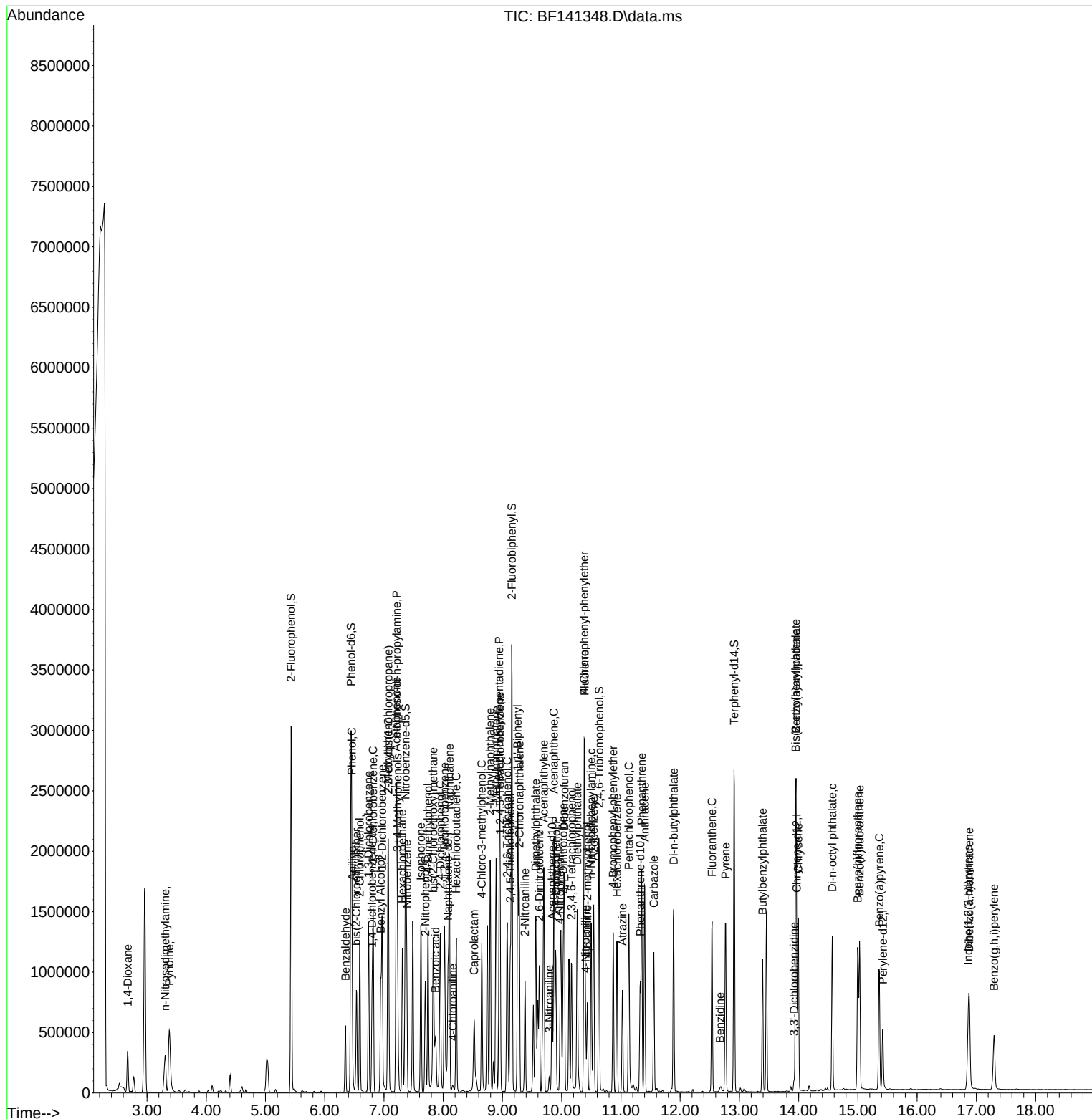
(#) = qualifier out of range (m) = manual integration (+) = signals summed

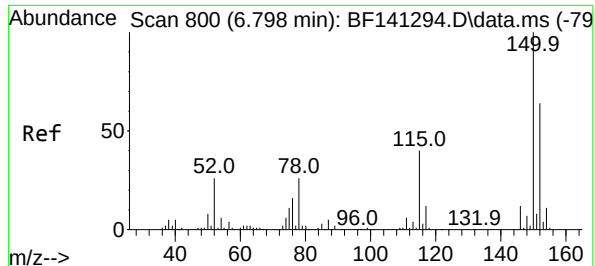
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD

Quant Time: Feb 01 00:04:24 2025
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF012925.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Jan 29 17:41:25 2025
Response via : Initial Calibration

Manual Integrations

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025





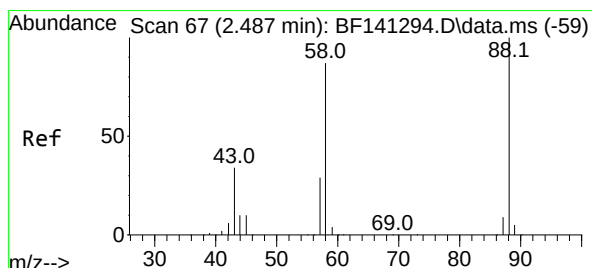
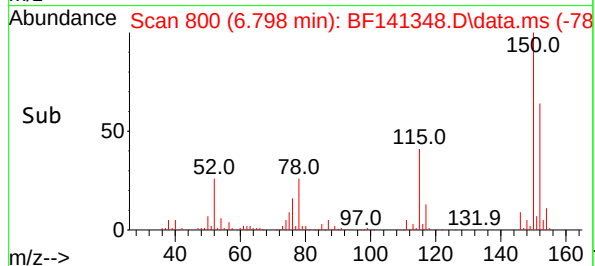
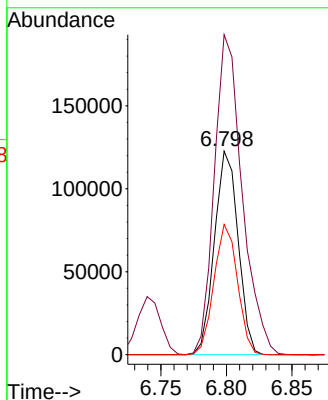
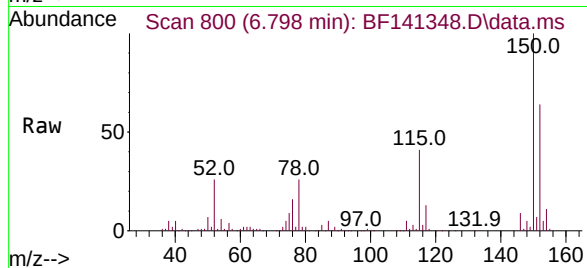
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 80
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD

Tgt Ion:152 Resp: 153925
Ion Ratio Lower Upper
152 100
150 157.2 125.9 188.9
115 64.0 49.7 74.5

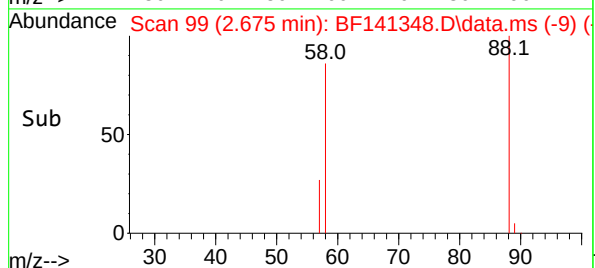
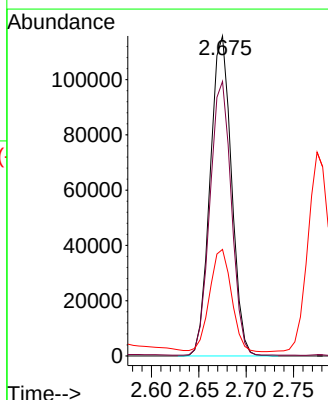
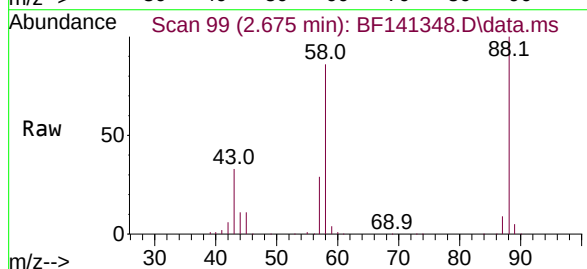
Manual Integrations
APPROVED

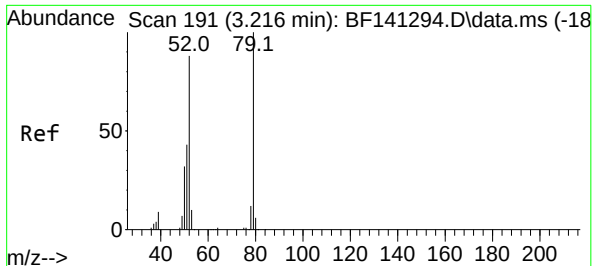
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#2
1,4-Dioxane
Concen: 41.171 ng
RT: 2.675 min Scan# 99
Delta R.T. 0.182 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

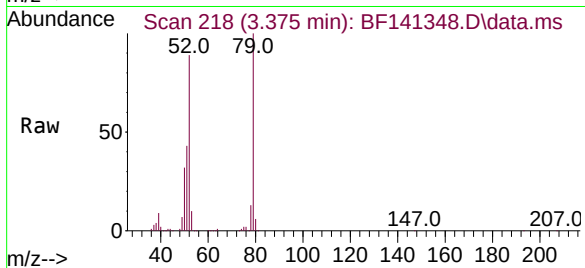
Tgt Ion: 88 Resp: 181546
Ion Ratio Lower Upper
88 100
58 85.8 70.2 105.4
43 0.0 27.6 41.4#





#3
Pyridine
Concen: 35.736 ng
RT: 3.375 min Scan# 218
Delta R.T. 0.147 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

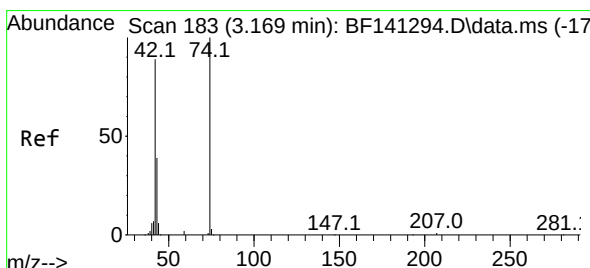
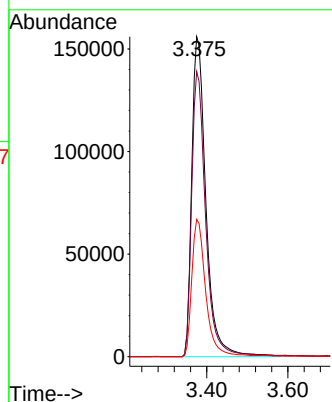
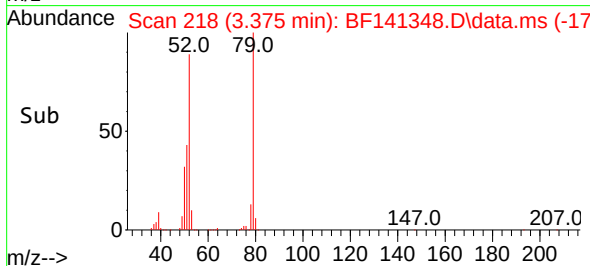
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



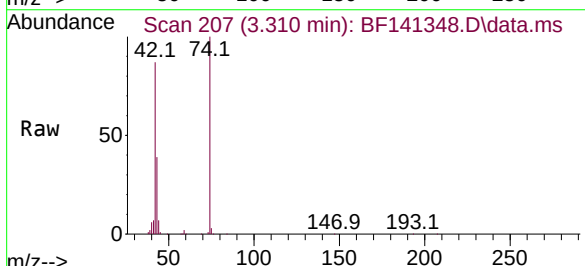
Tgt Ion: 79 Resp: 379670
Ion Ratio Lower Upper
79 100
52 89.1 70.3 105.5
51 42.9 34.3 51.5

Manual Integrations
APPROVED

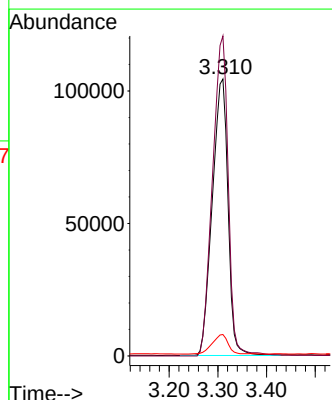
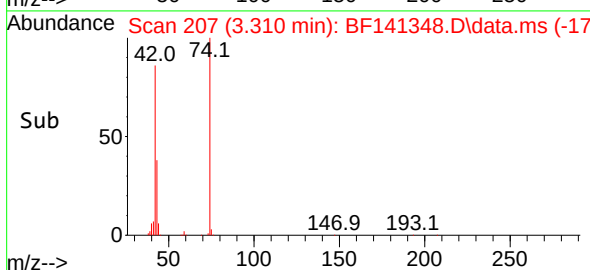
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

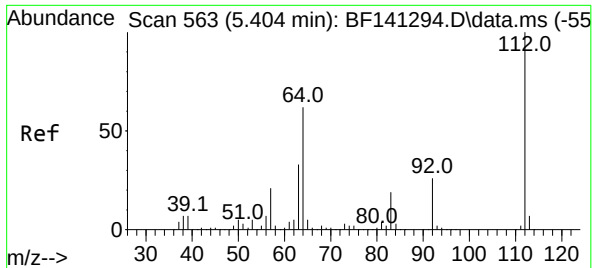


#4
n-Nitrosodimethylamine
Concen: 38.479 ng
RT: 3.310 min Scan# 207
Delta R.T. 0.112 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43



Tgt Ion: 42 Resp: 233543
Ion Ratio Lower Upper
42 100
74 115.5 90.3 135.5
44 7.7 5.7 8.5





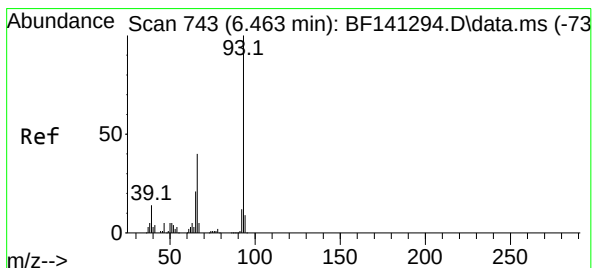
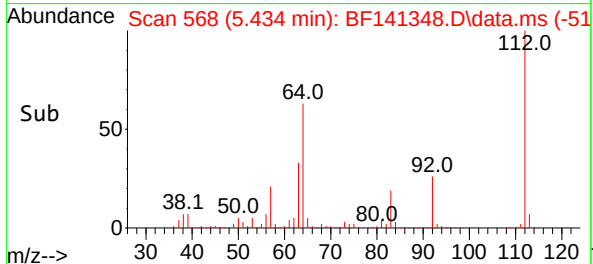
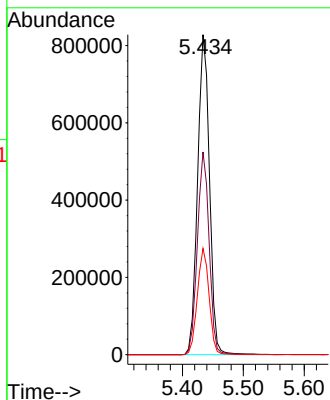
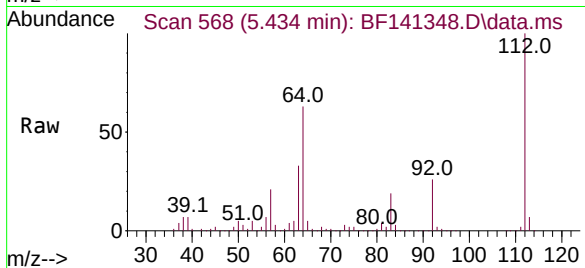
#5
2-Fluorophenol
Concen: 112.121 ng
RT: 5.434 min Scan# 563
Delta R.T. 0.023 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD

Tgt Ion:112 Resp: 112416
Ion Ratio Lower Upper
112 100
64 63.4 49.8 74.8
63 33.2 26.1 39.1

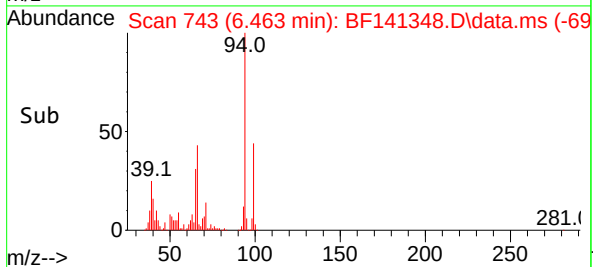
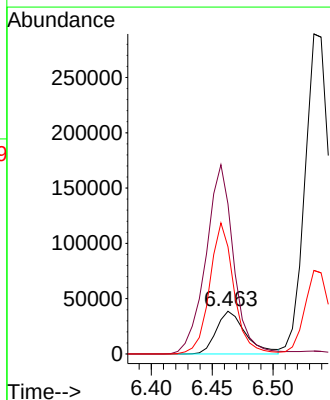
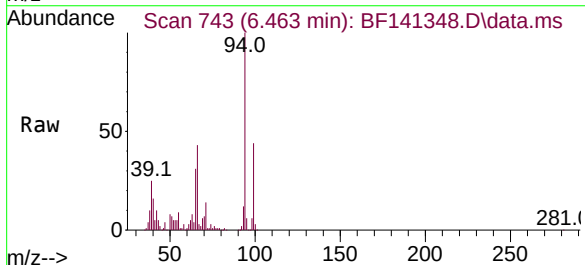
Manual Integrations
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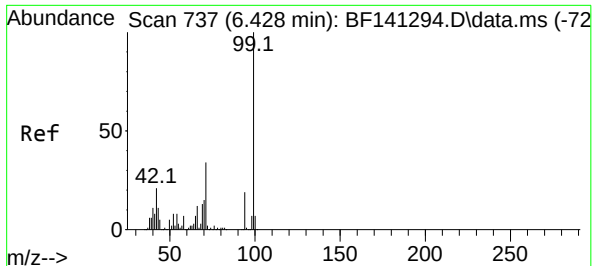
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#6
Aniline
Concen: 6.024 ng
RT: 6.463 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

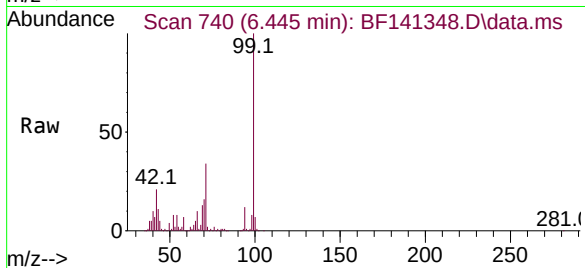
Tgt Ion: 93 Resp: 65044
Ion Ratio Lower Upper
93 100
66 351.6 32.5 48.7#
65 251.0 17.0 25.6#





#7
Phenol-d6
Concen: 103.479 ng
RT: 6.445 min Scan# 740
Delta R.T. 0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

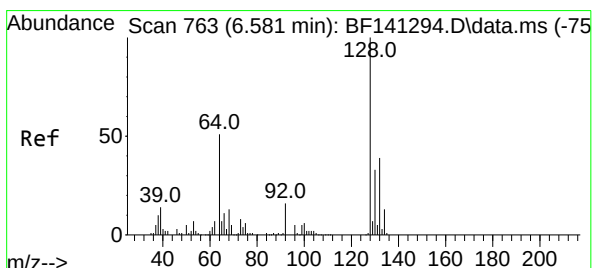
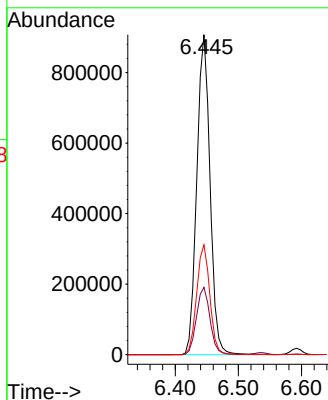
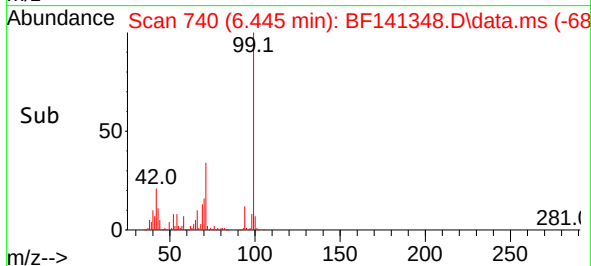
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



Tgt Ion: 99 Resp: 131985
Ion Ratio Lower Upper
99 100
42 21.1 17.1 25.7
71 34.4 26.9 40.3

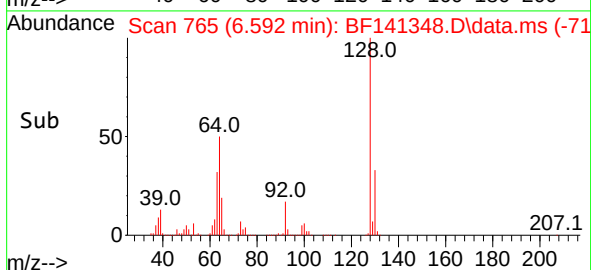
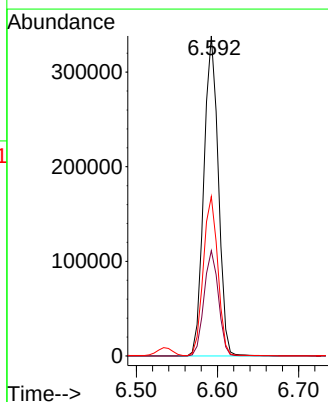
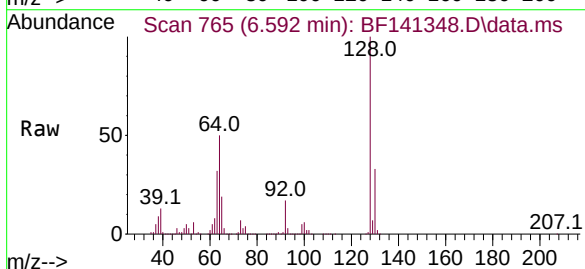
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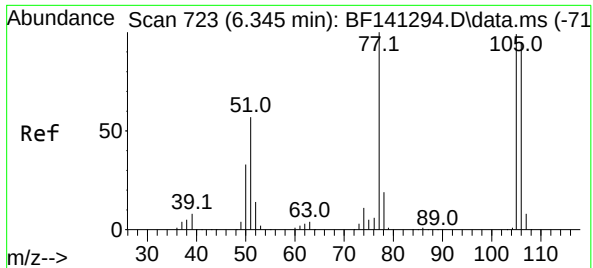
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#8
2-Chlorophenol
Concen: 38.917 ng
RT: 6.592 min Scan# 765
Delta R.T. -0.000 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

Tgt Ion:128 Resp: 418220
Ion Ratio Lower Upper
128 100
130 32.9 12.5 52.5
64 49.8 32.9 72.9





#9

Benzaldehyde

Concen: 19.950 ng

RT: 6.351 min Scan# 71

Delta R.T. -0.000 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion: 77 Resp: 147390

Ion Ratio Lower Upper

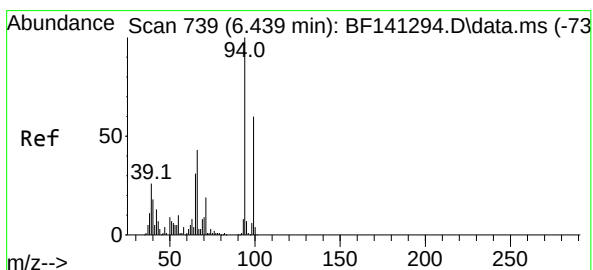
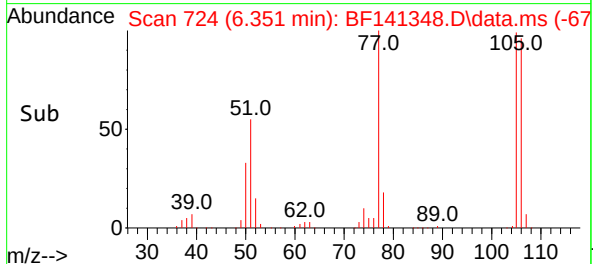
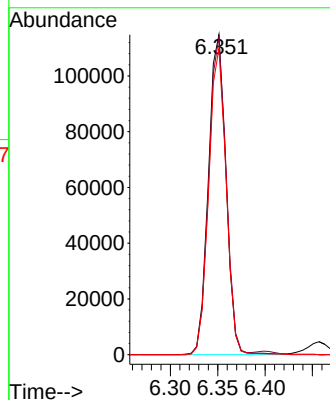
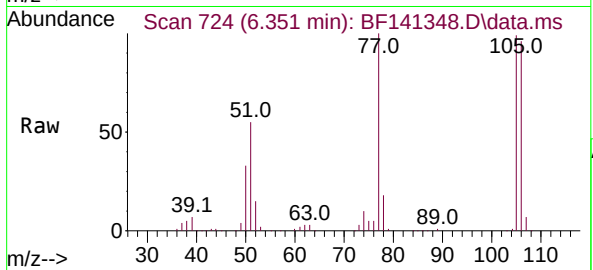
77 100

105 99.2 79.4 119.4

106 95.6 74.6 114.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#10

Phenol

Concen: 35.915 ng

RT: 6.457 min Scan# 742

Delta R.T. 0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

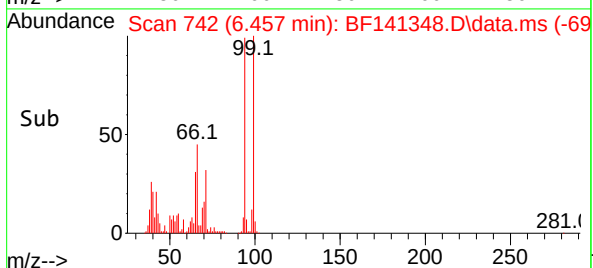
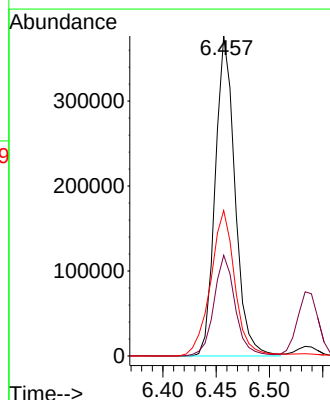
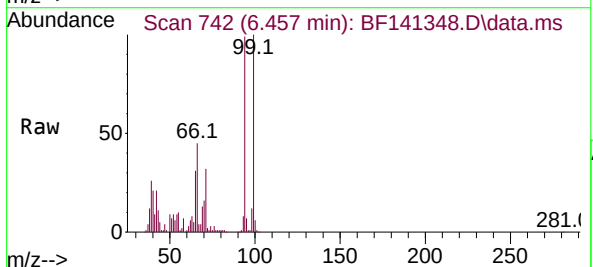
Tgt Ion: 94 Resp: 485596

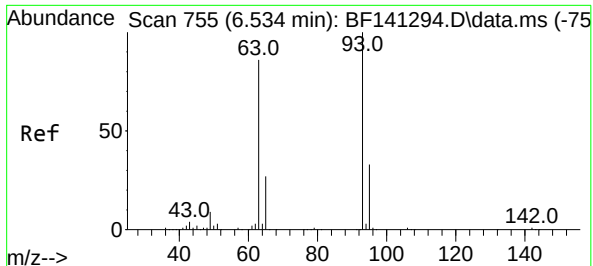
Ion Ratio Lower Upper

94 100

65 31.5 10.8 50.8

66 45.4 23.3 63.3





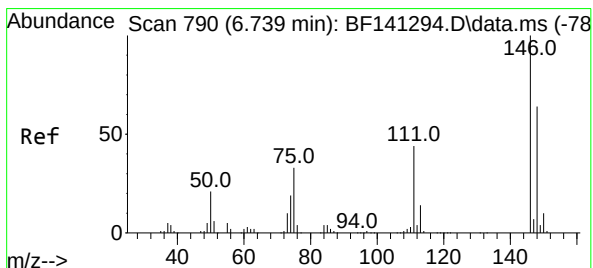
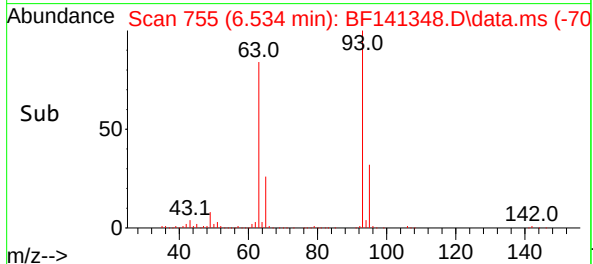
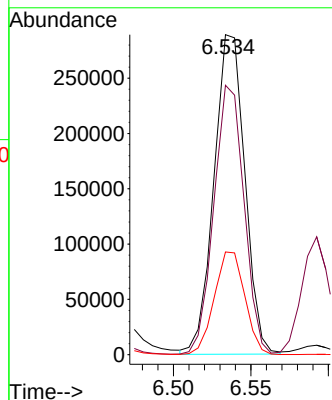
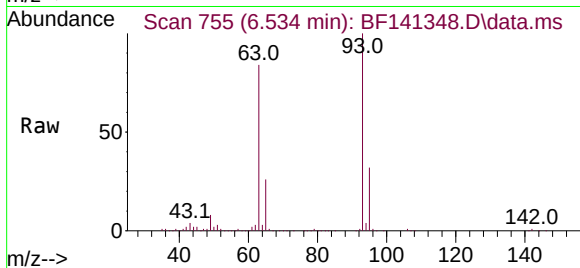
#11
bis(2-Chloroethyl)ether
Concen: 38.732 ng
RT: 6.534 min Scan# 755
Delta R.T. -0.012 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD

Tgt Ion: 93 Resp: 401530
Ion Ratio Lower Upper
93 100
63 84.2 65.0 105.0
95 32.1 12.4 52.4

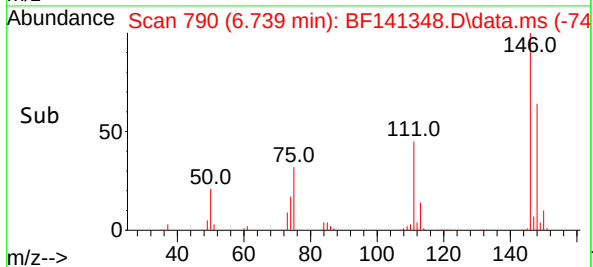
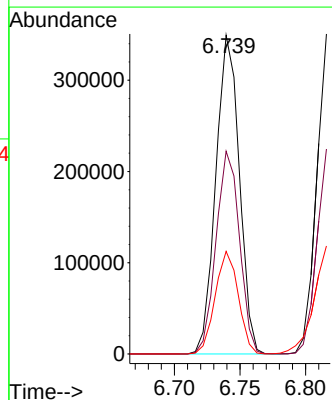
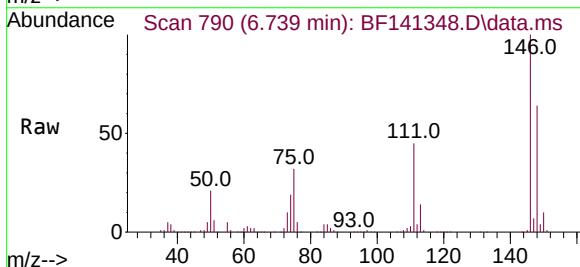
Manual Integrations
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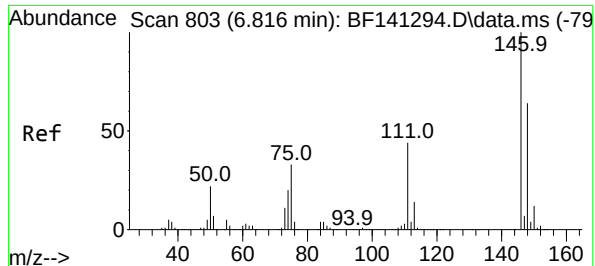
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#12
1,3-Dichlorobenzene
Concen: 36.680 ng
RT: 6.739 min Scan# 790
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

Tgt Ion:146 Resp: 434626
Ion Ratio Lower Upper
146 100
148 63.6 51.2 76.8
75 32.2 26.2 39.4





#13

1,4-Dichlorobenzene

Concen: 36.309 ng

RT: 6.816 min Scan# 803

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion:146 Resp: 432210

Ion Ratio Lower Upper

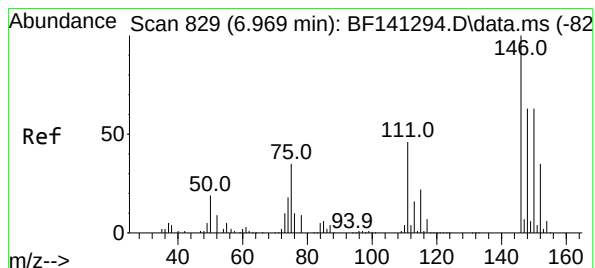
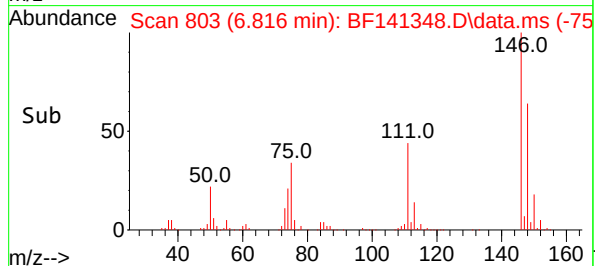
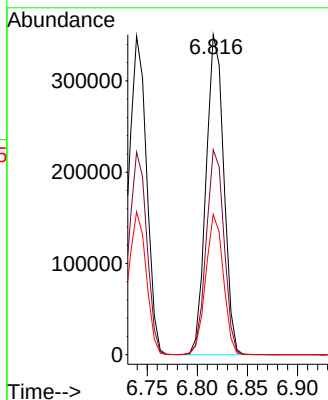
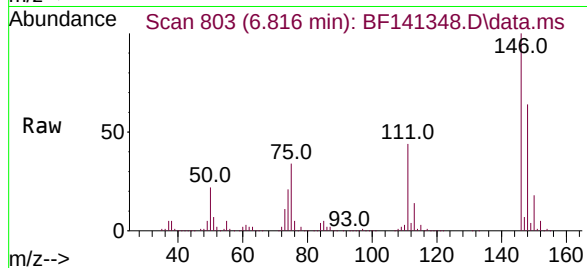
146 100

148 64.0 51.2 76.8

111 43.8 35.0 52.4

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#14

1,2-Dichlorobenzene

Concen: 36.755 ng

RT: 6.969 min Scan# 829

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

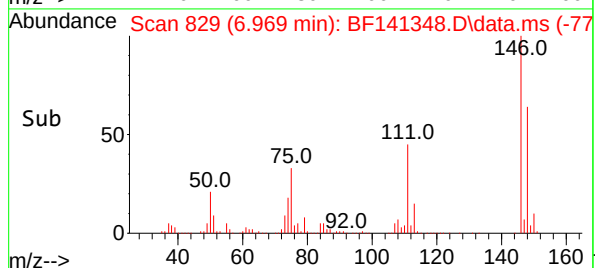
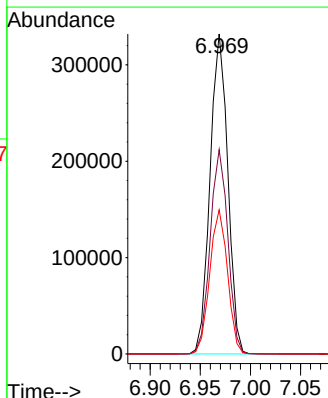
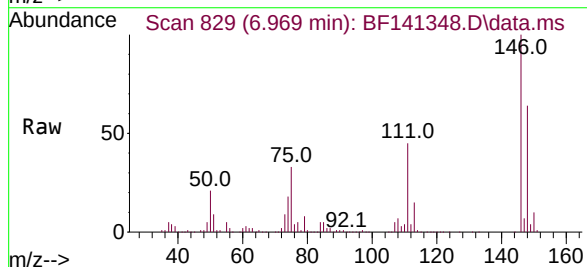
Tgt Ion:146 Resp: 409687

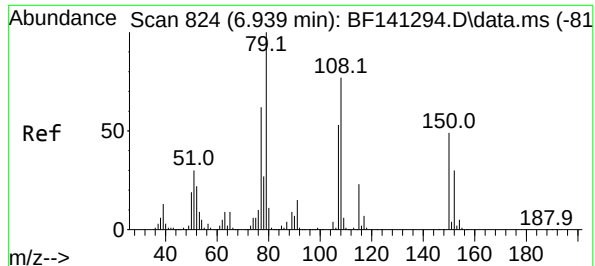
Ion Ratio Lower Upper

146 100

148 63.8 50.5 75.7

111 45.1 36.6 55.0





#15

Benzyl Alcohol

Concen: 35.565 ng

RT: 6.945 min Scan# 81

Delta R.T. -0.000 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion: 79 Resp: 31000

Ion Ratio Lower Upper

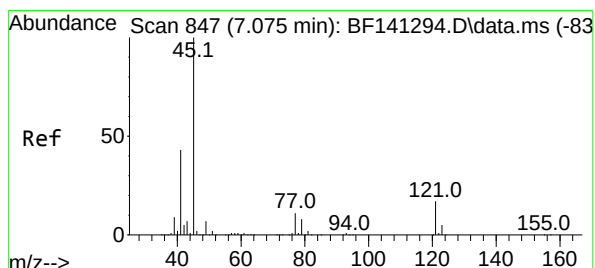
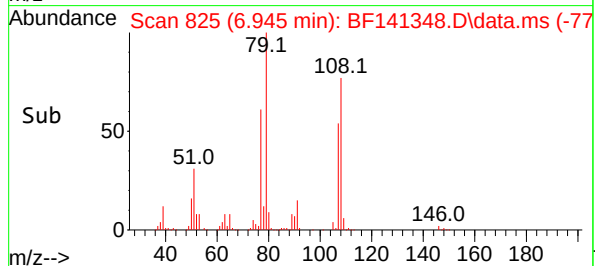
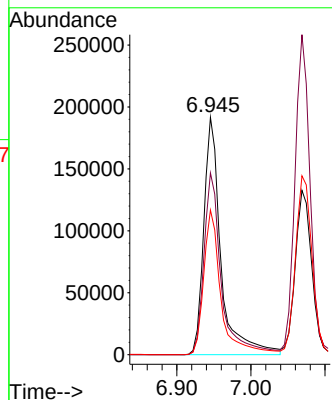
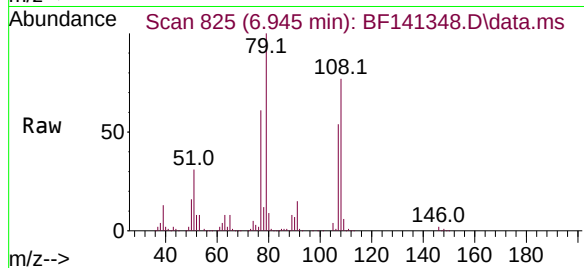
79 100

108 76.6 61.4 92.0

77 60.9 49.9 74.9

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#16

2,2'-oxybis(1-Chloropropane)

Concen: 36.778 ng

RT: 7.075 min Scan# 847

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

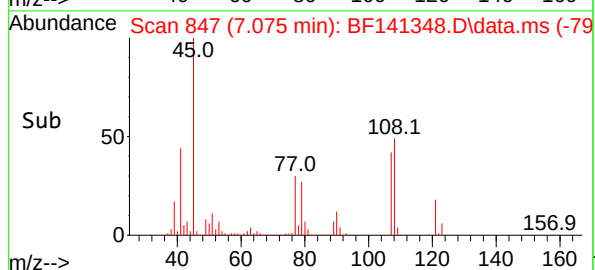
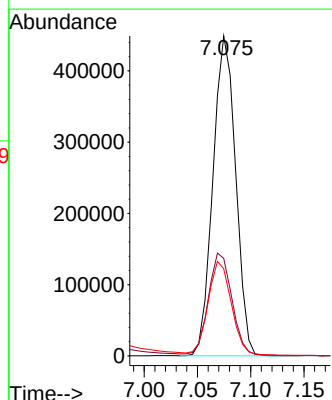
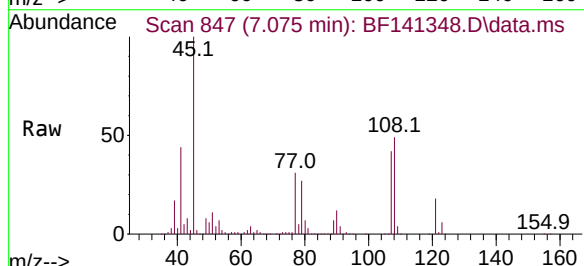
Tgt Ion: 45 Resp: 663014

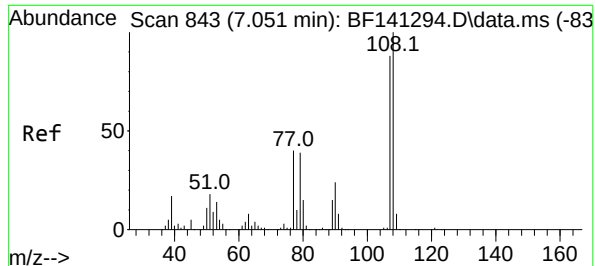
Ion Ratio Lower Upper

45 100

77 30.5 0.0 31.8

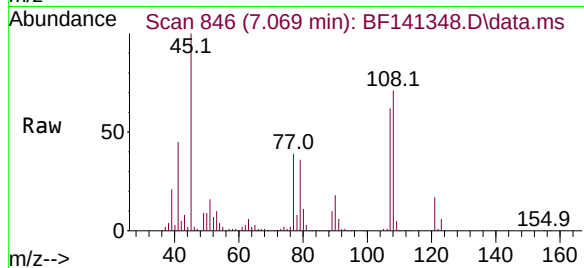
79 27.3 0.0 29.1





#17
2-Methylphenol
Concen: 36.694 ng
RT: 7.069 min Scan# 843
Delta R.T. 0.012 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

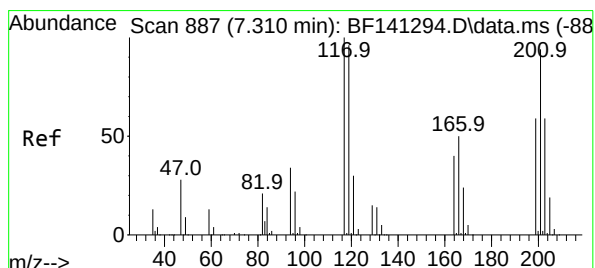
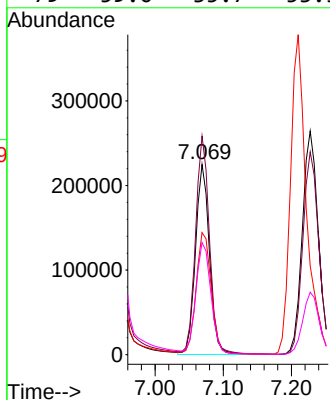
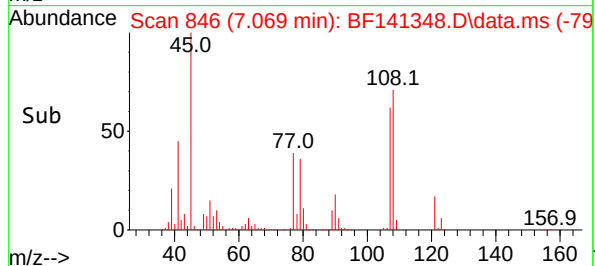
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



Tgt Ion:107 Resp: 320489
Ion Ratio Lower Upper
107 100
108 114.9 90.8 136.2
77 64.2 36.2 54.4
79 59.0 35.7 53.5#

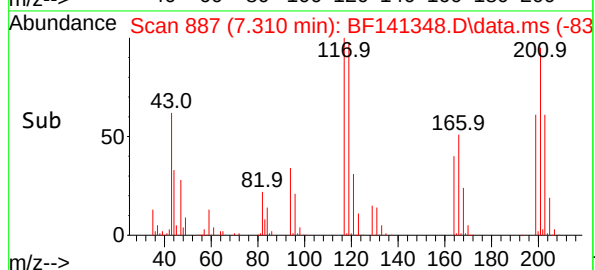
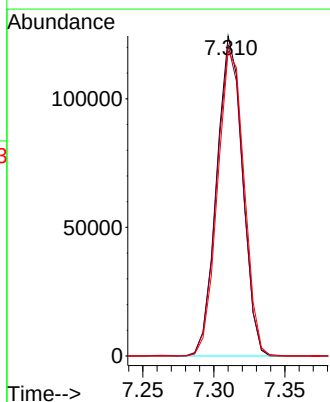
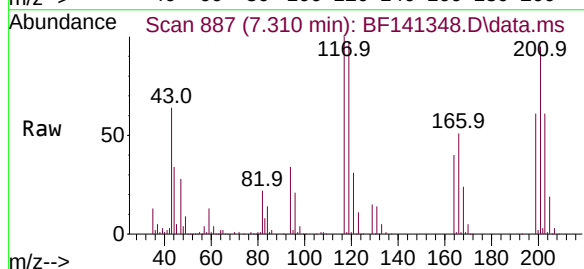
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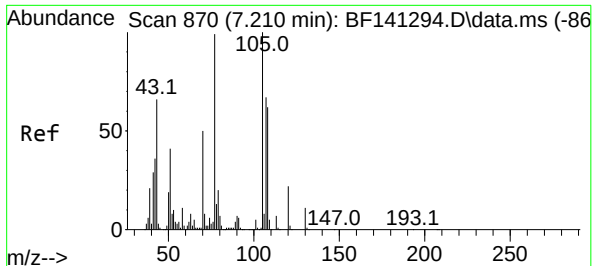
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#18
Hexachloroethane
Concen: 35.893 ng
RT: 7.310 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

Tgt Ion:117 Resp: 157617
Ion Ratio Lower Upper
117 100
119 97.2 76.6 114.8
201 95.4 74.8 112.2





#19

n-Nitroso-di-n-propylamine

Concen: 39.016 ng

RT: 7.216 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF141348.D

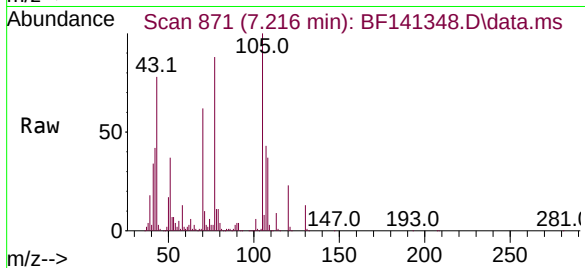
Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD



Tgt Ion: 70 Resp: 295690

Ion Ratio Lower Upper

70 100

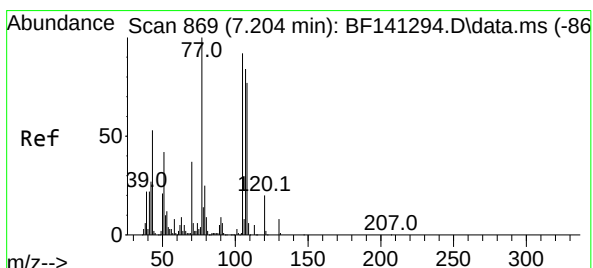
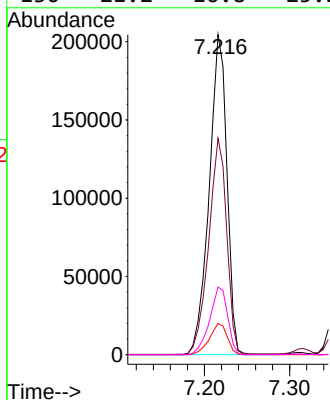
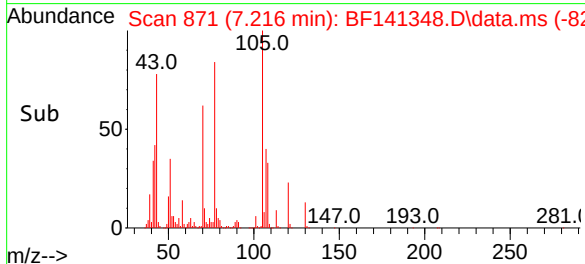
42 67.6 56.8 85.2

101 9.7 7.7 11.5

130 21.2 16.8 25.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#20

3+4-Methylphenols

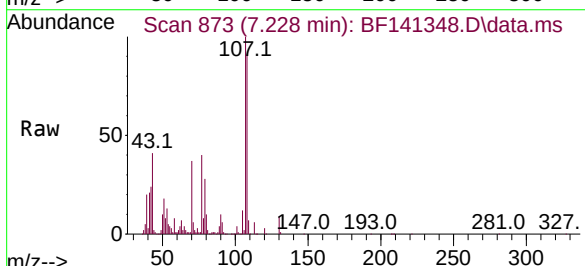
Concen: 40.418 ng

RT: 7.228 min Scan# 873

Delta R.T. 0.012 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43



Tgt Ion:107 Resp: 433449

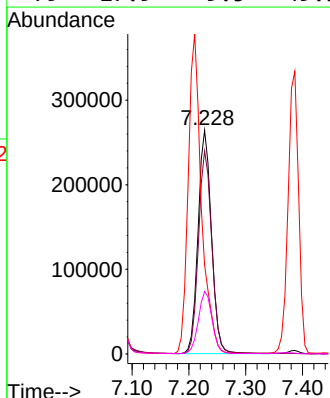
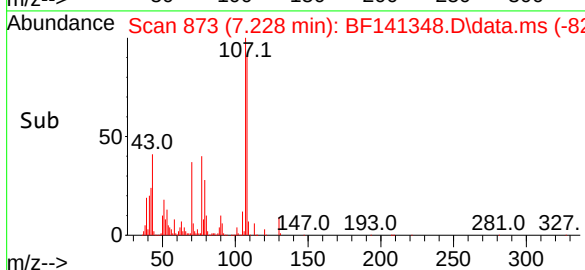
Ion Ratio Lower Upper

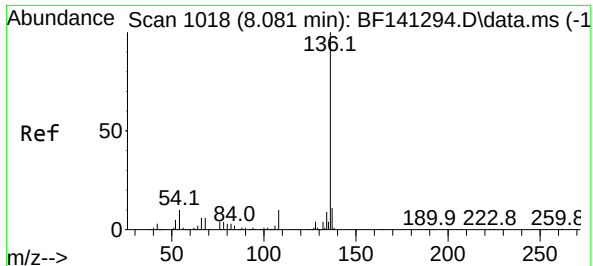
107 100

108 90.7 70.9 110.9

77 39.7 98.5 138.5

79 27.9 9.5 49.5





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.081 min Scan# 1018

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion:136 Resp: 60564

Ion Ratio Lower Upper

136 100

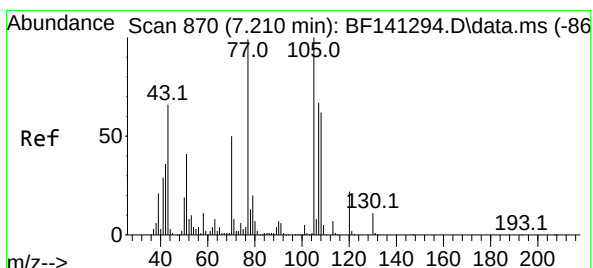
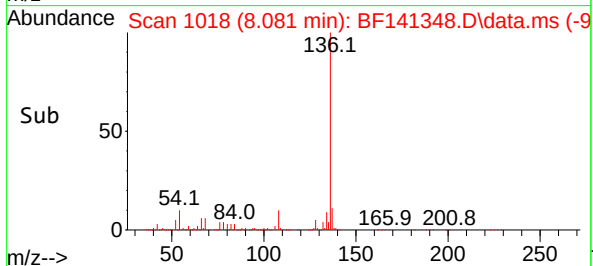
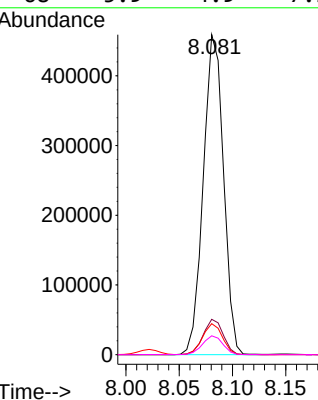
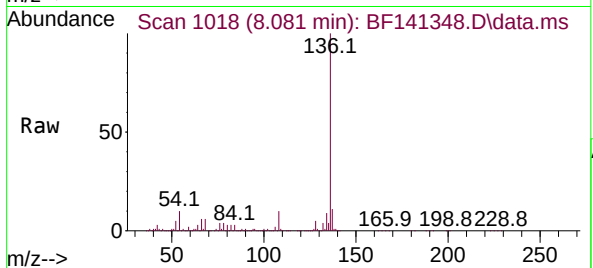
137 11.0 8.6 13.0

54 9.7 7.8 11.8

68 5.9 4.9 7.3

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#22

Acetophenone

Concen: 43.454 ng

RT: 7.210 min Scan# 870

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Tgt Ion:105 Resp: 625566

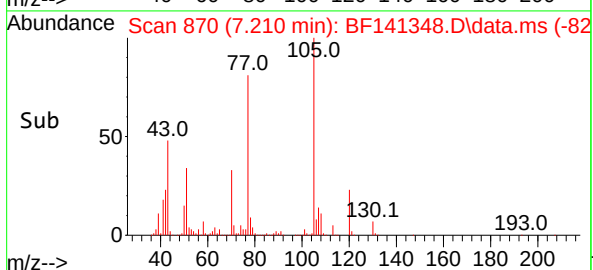
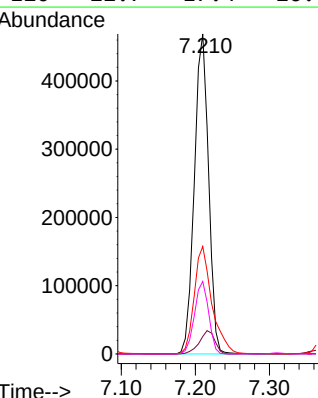
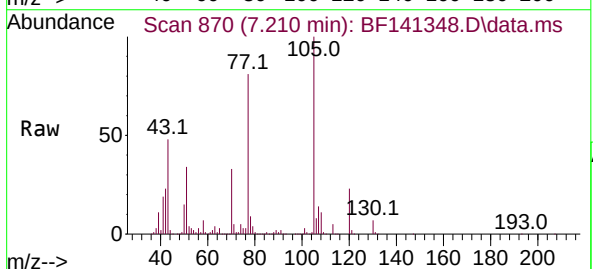
Ion Ratio Lower Upper

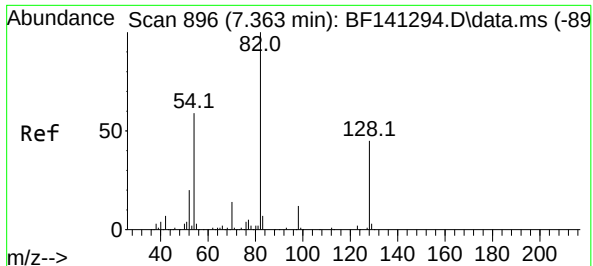
105 100

71 5.5 6.8 10.2#

51 33.6 32.6 49.0

120 22.7 17.4 26.0





#23

Nitrobenzene-d5

Concen: 85.525 ng

RT: 7.363 min Scan# 896

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion: 82 Resp: 982578

Ion Ratio Lower Upper

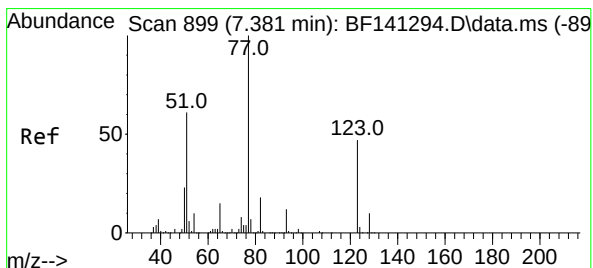
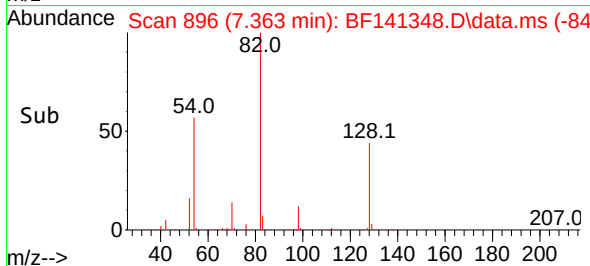
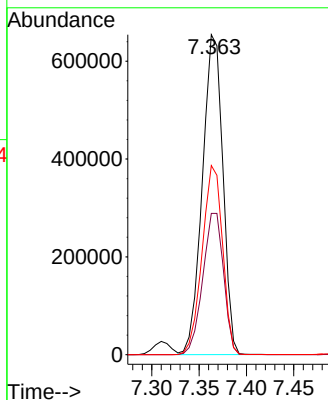
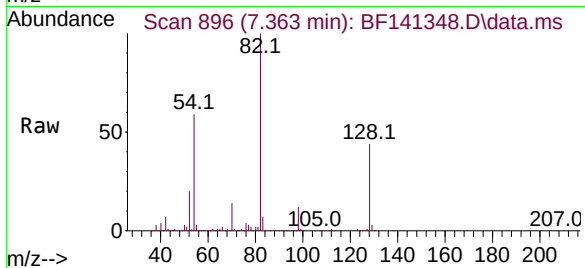
82 100

128 44.1 35.7 53.5

54 59.1 47.1 70.7

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#24

Nitrobenzene

Concen: 36.030 ng

RT: 7.386 min Scan# 900

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

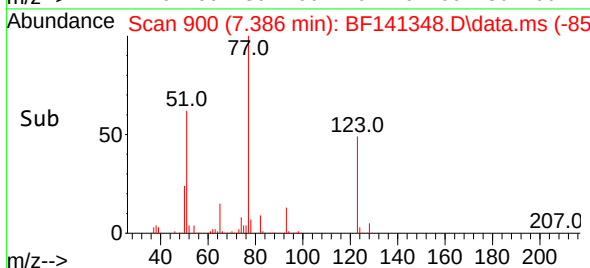
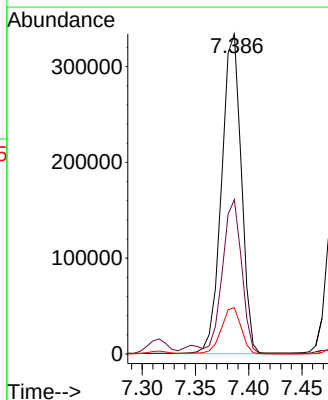
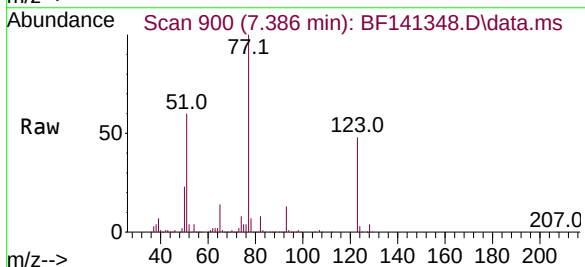
Tgt Ion: 77 Resp: 428974

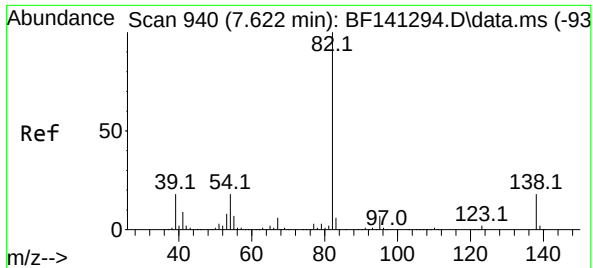
Ion Ratio Lower Upper

77 100

123 48.2 37.3 55.9

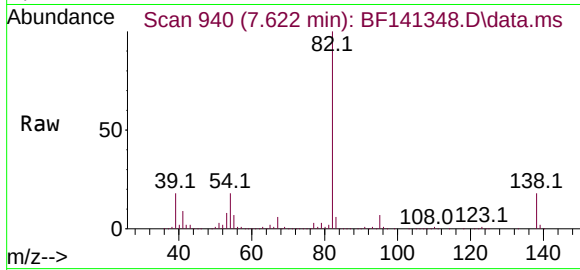
65 14.4 11.8 17.6





#25
Isophorone
Concen: 38.962 ng
RT: 7.622 min Scan# 940
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

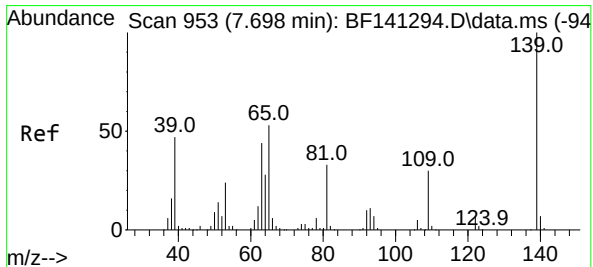
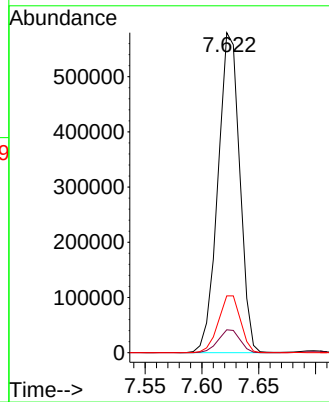
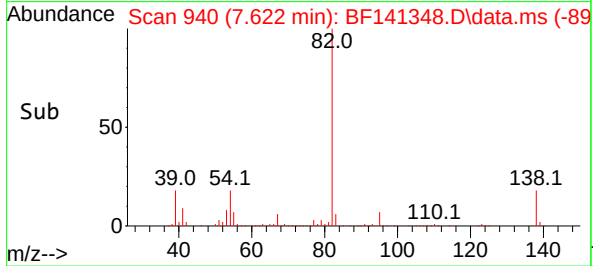
Instrument :
BNA_F
Client SampleId :
VNJ-236MSD



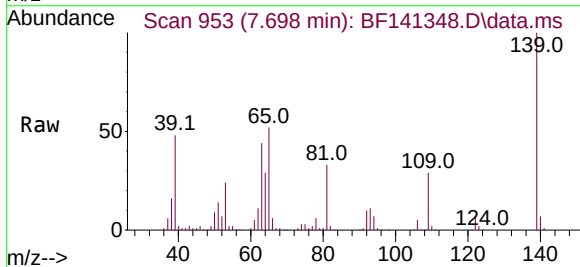
Tgt Ion: 82 Resp: 77376
Ion Ratio Lower Upper
82 100
95 7.2 5.8 8.6
138 17.8 14.7 22.1

Manual Integrations
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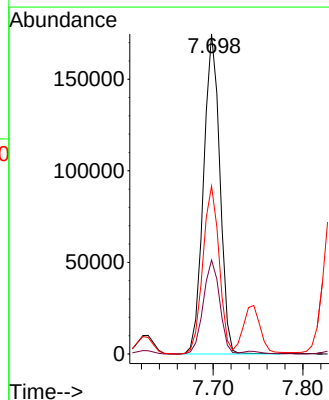
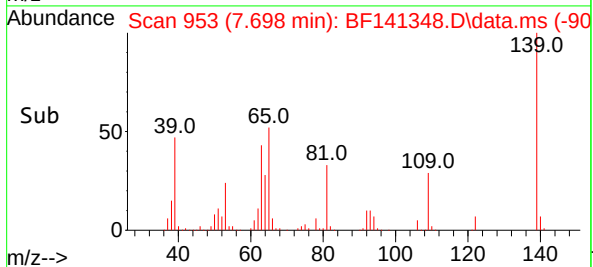
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

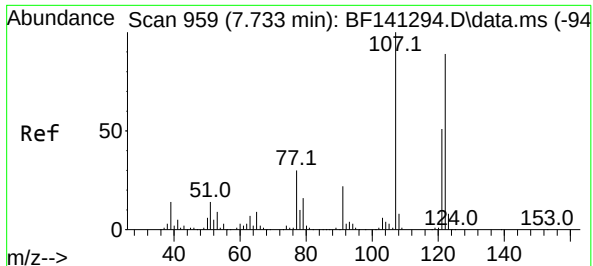


#26
2-Nitrophenol
Concen: 39.280 ng
RT: 7.698 min Scan# 953
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43



Tgt Ion:139 Resp: 220556
Ion Ratio Lower Upper
139 100
109 29.3 23.8 35.6
65 52.5 42.2 63.4





#27

2,4-Dimethylphenol

Concen: 49.352 ng m

RT: 7.745 min Scan# 90

Delta R.T. 0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion:122 Resp: 35271

Ion Ratio Lower Upper

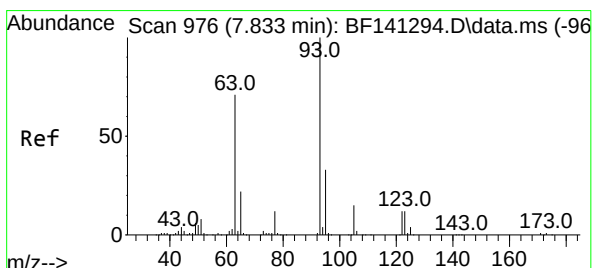
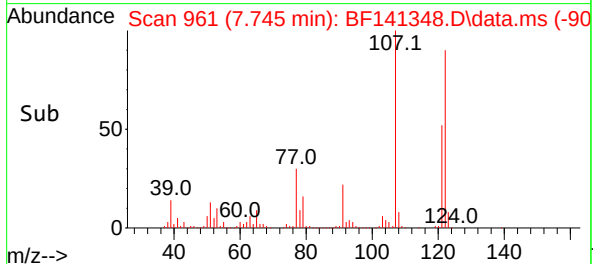
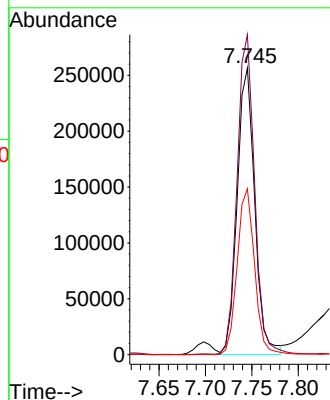
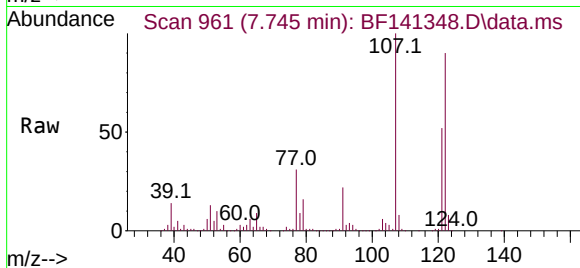
122 100

107 111.6 89.9 134.9

121 57.9 46.1 69.1

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#28

bis(2-Chloroethoxy)methane

Concen: 37.979 ng

RT: 7.833 min Scan# 976

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

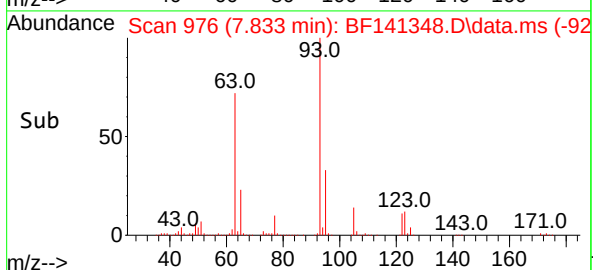
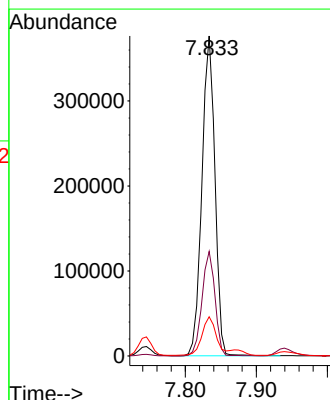
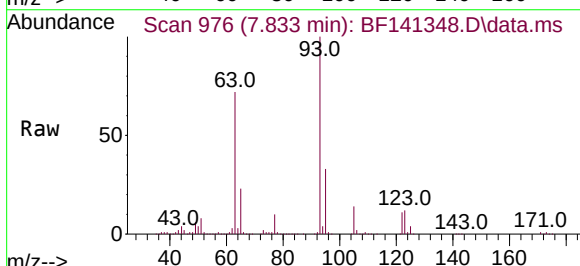
Tgt Ion: 93 Resp: 481111

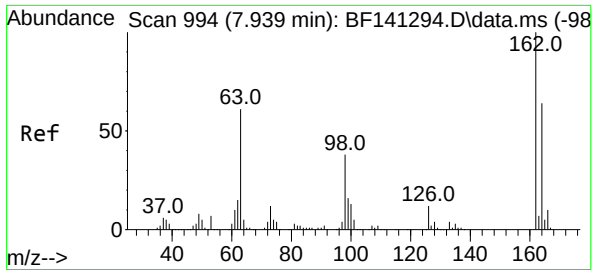
Ion Ratio Lower Upper

93 100

95 32.6 26.2 39.2

123 12.2 10.2 15.4





#29

2,4-Dichlorophenol

Concen: 38.652 ng

RT: 7.951 min Scan# 994

Delta R.T. 0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion:162 Resp: 33818

Ion Ratio Lower Upper

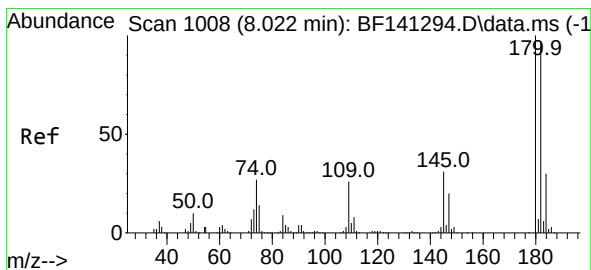
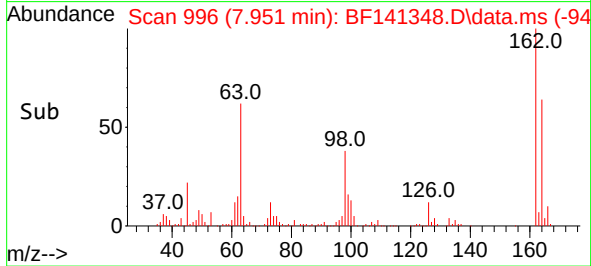
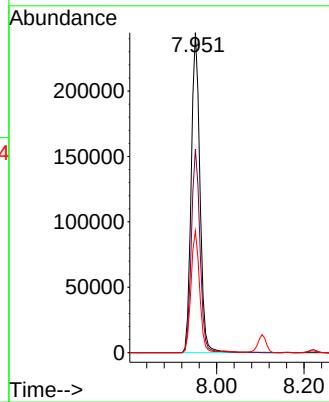
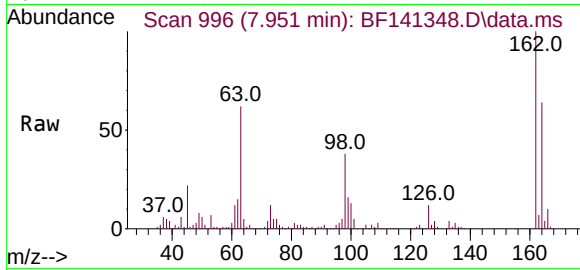
162 100

164 63.6 44.2 84.2

98 38.0 18.2 58.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#30

1,2,4-Trichlorobenzene

Concen: 35.752 ng

RT: 8.022 min Scan# 1008

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

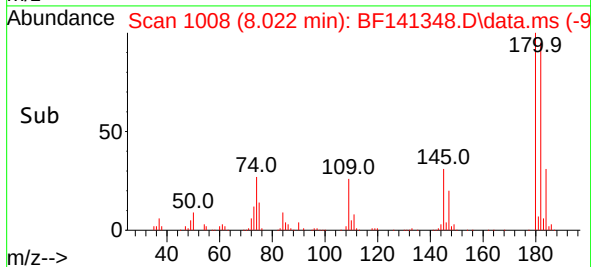
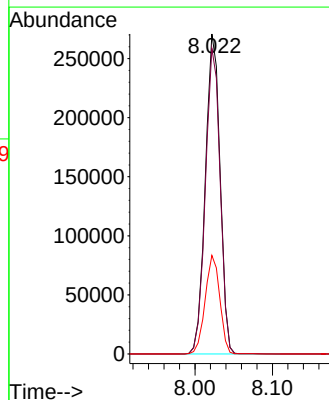
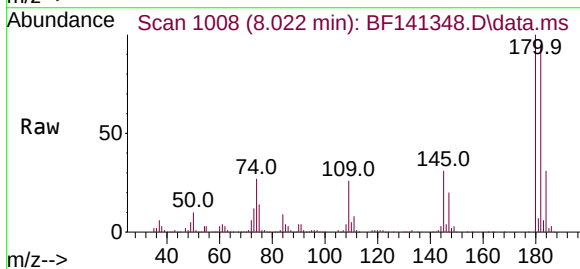
Tgt Ion:180 Resp: 357239

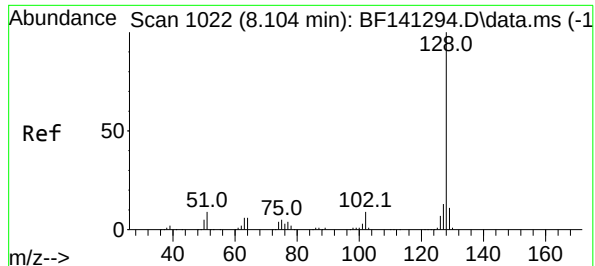
Ion Ratio Lower Upper

180 100

182 95.5 76.4 114.6

145 30.8 24.9 37.3





#31

Naphthalene

Concen: 36.581 ng

RT: 8.104 min Scan# 1022

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion:128 Resp: 1170409

Ion Ratio Lower Upper

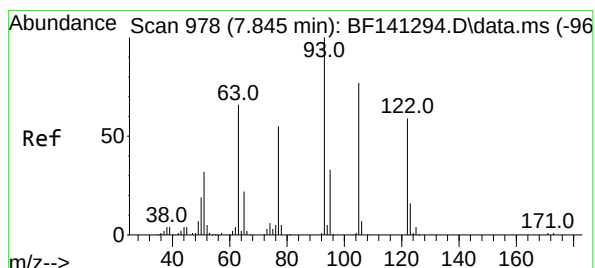
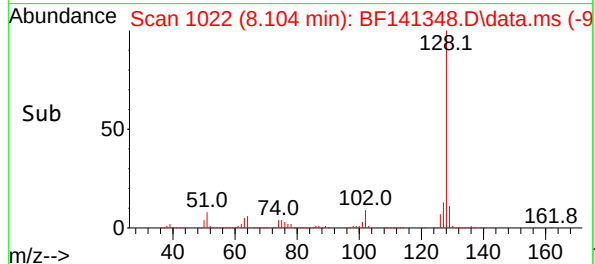
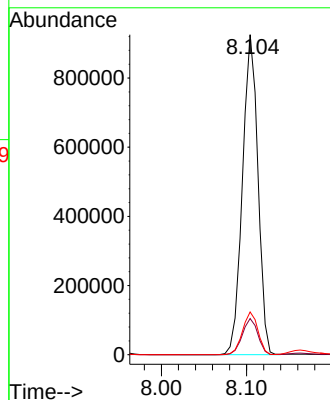
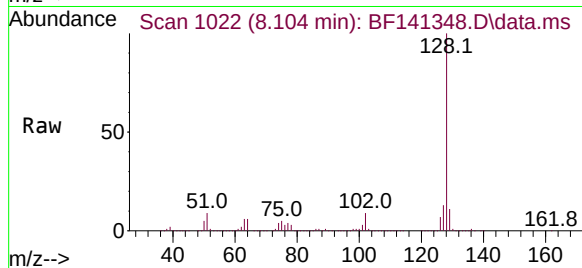
128 100

129 11.3 8.9 13.3

127 13.4 10.6 15.8

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#32

Benzoic acid

Concen: 45.884 ng

RT: 7.869 min Scan# 982

Delta R.T. -0.012 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

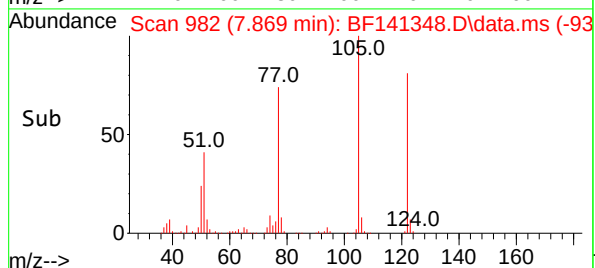
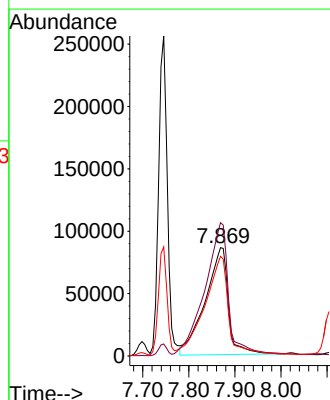
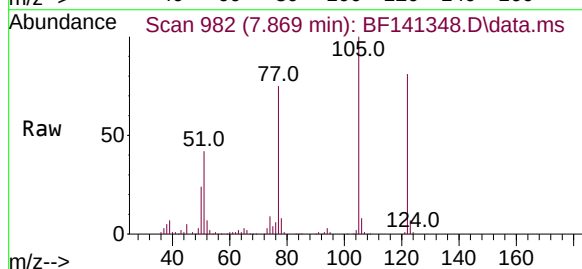
Tgt Ion:122 Resp: 301460

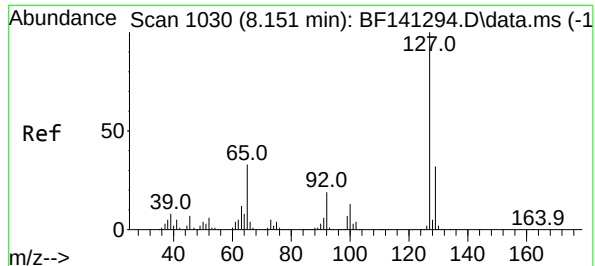
Ion Ratio Lower Upper

122 100

105 123.0 103.4 143.4

77 92.0 70.9 110.9





#33

4-Chloroaniline

Concen: 2.622 ng

RT: 8.163 min Scan# 1032

Delta R.T. 0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion:127 Resp: 2844

Ion Ratio Lower Upper

127 100

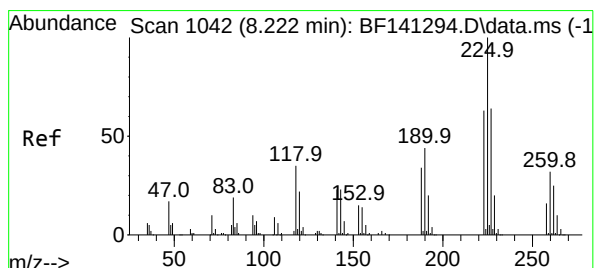
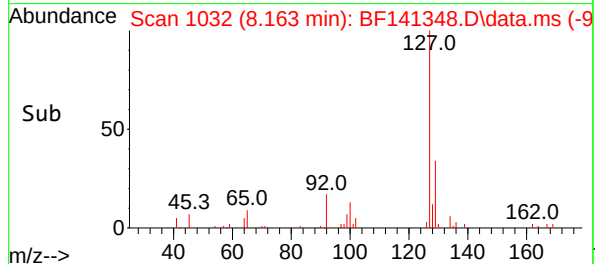
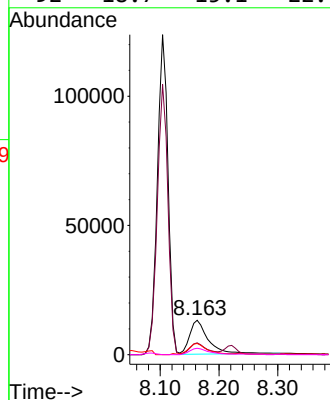
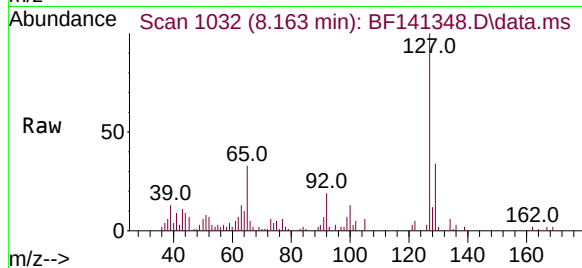
129 34.3 25.7 38.5

65 32.6 26.4 39.6

92 18.7 15.1 22.7

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#34

Hexachlorobutadiene

Concen: 36.070 ng

RT: 8.222 min Scan# 1042

Delta R.T. -0.000 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

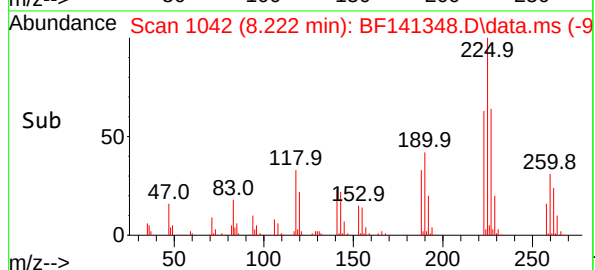
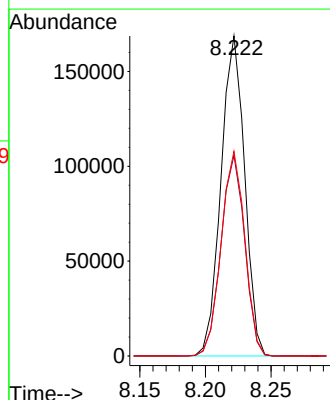
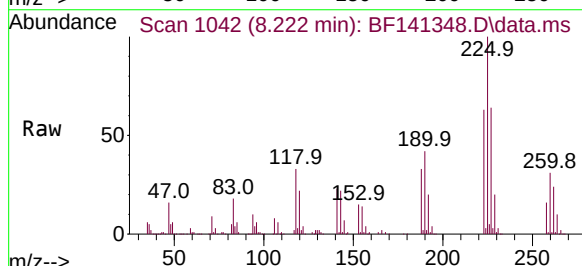
Tgt Ion:225 Resp: 211361

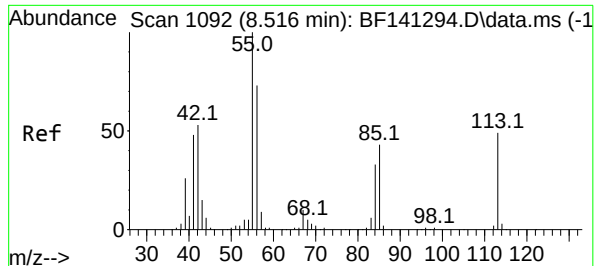
Ion Ratio Lower Upper

225 100

223 62.7 50.4 75.6

227 64.0 51.3 76.9





#35

Caprolactam

Concen: 41.336 ng

RT: 8.522 min Scan# 1093

Delta R.T. -0.024 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

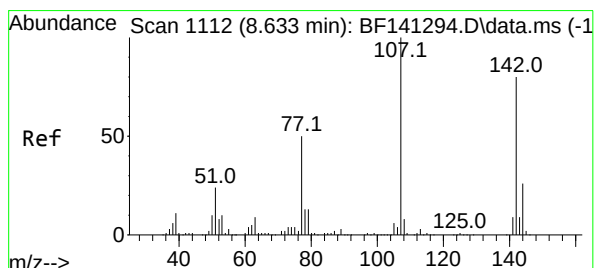
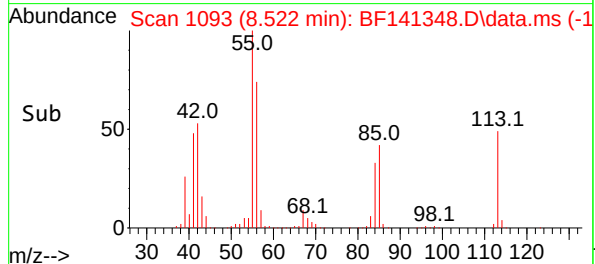
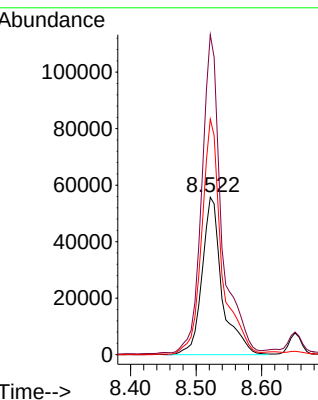
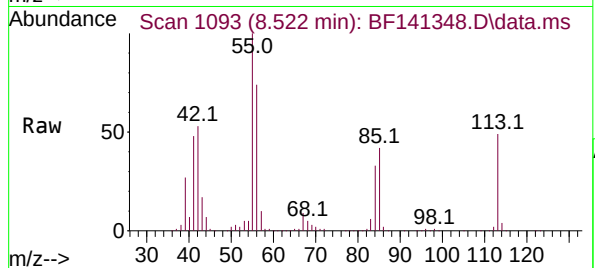
ClientSampleId :

VNJ-236MSD

Tgt Ion:	113	Resp:	11811
Ion Ratio	Lower	Upper	
113	100		
55	203.2	182.9	222.9
56	149.7	127.9	167.9

Manual Integrations
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Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#36

4-Chloro-3-methylphenol

Concen: 36.917 ng

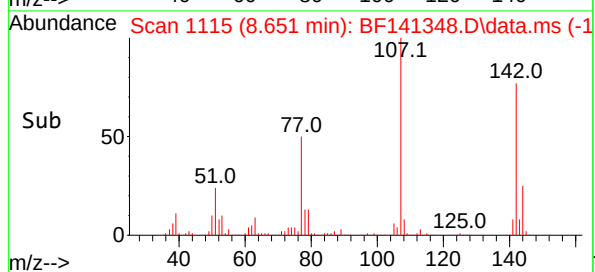
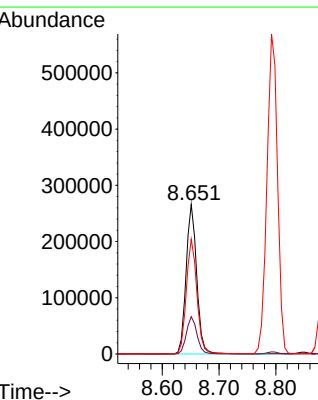
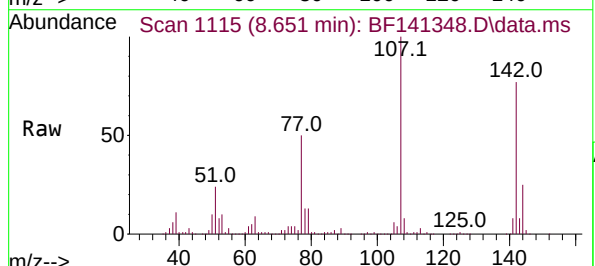
RT: 8.651 min Scan# 1115

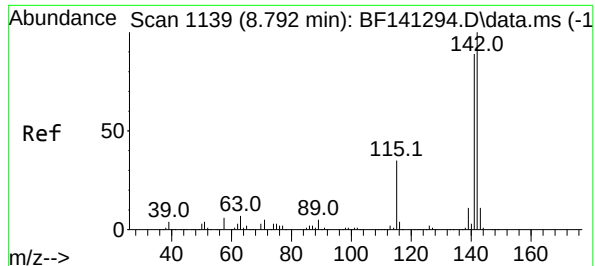
Delta R.T. 0.012 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

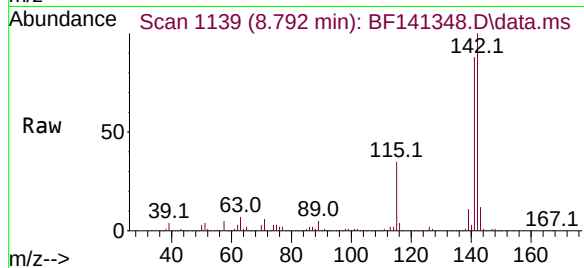
Tgt Ion:	107	Resp:	346469
Ion Ratio	Lower	Upper	
107	100		
144	24.9	20.7	31.1
142	76.7	63.8	95.8





#37
2-Methylnaphthalene
Concen: 36.244 ng
RT: 8.792 min Scan# 1139
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

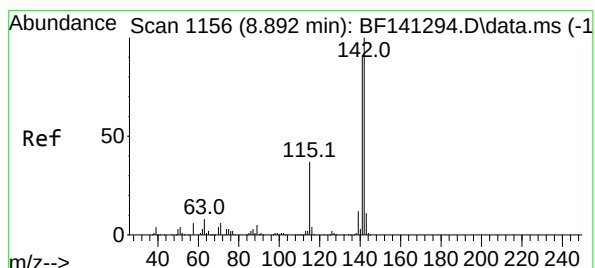
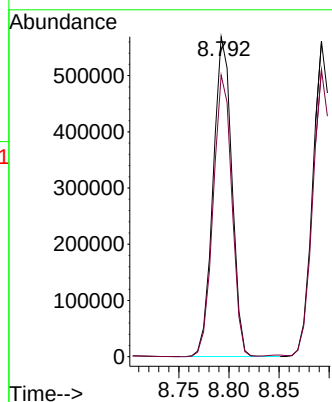
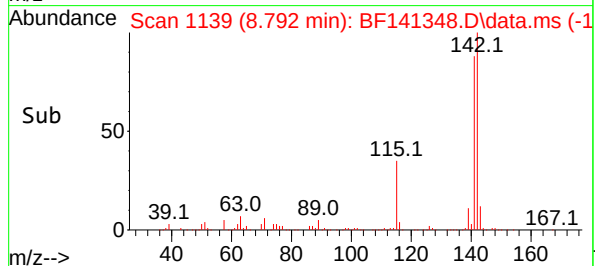
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



Tgt Ion:142 Resp: 73704
Ion Ratio Lower Upper
142 100
141 88.0 71.3 106.9

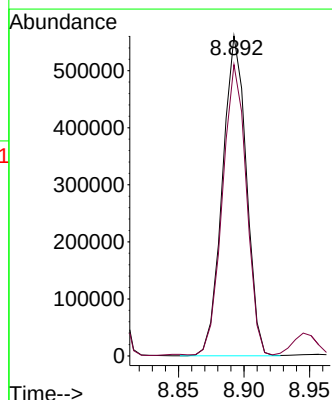
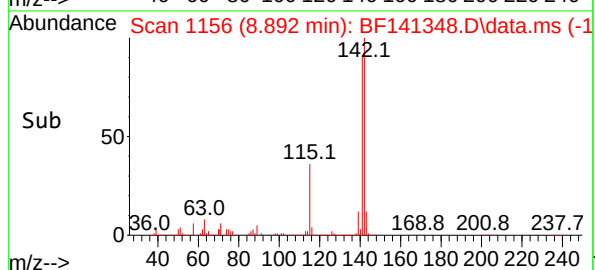
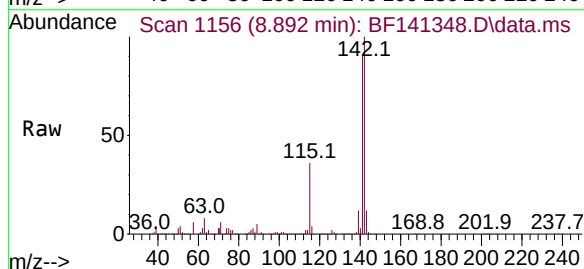
Manual Integrations
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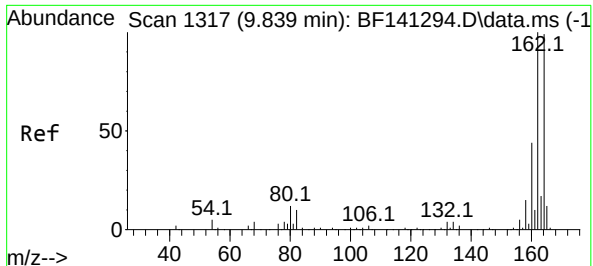
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#38
1-Methylnaphthalene
Concen: 35.500 ng
RT: 8.892 min Scan# 1156
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

Tgt Ion:142 Resp: 709128
Ion Ratio Lower Upper
142 100
141 91.1 73.2 109.8





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.839 min Scan# 1167

Delta R.T. -0.000 min

Lab File: BF141348.D

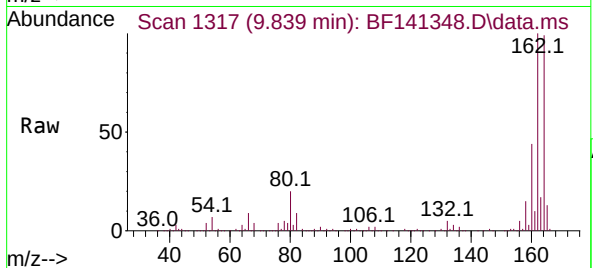
Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD



Tgt Ion:164 Resp: 316012

Ion Ratio Lower Upper

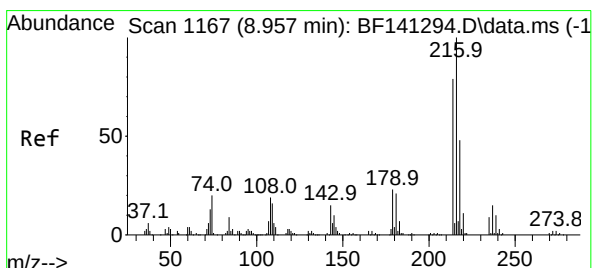
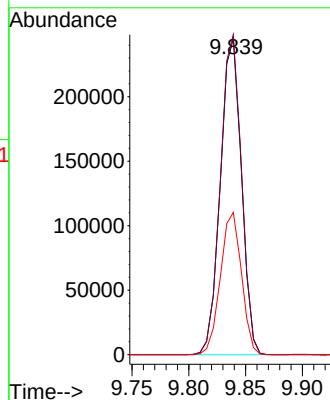
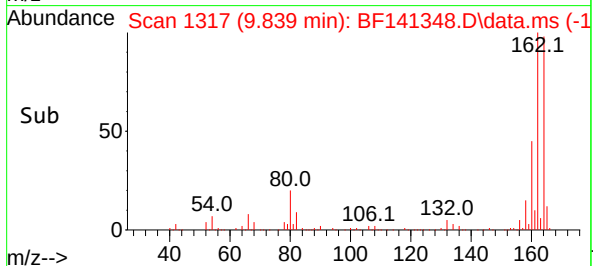
164 100

162 101.3 80.6 121.0

160 45.1 35.8 53.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#40

1,2,4,5-Tetrachlorobenzene

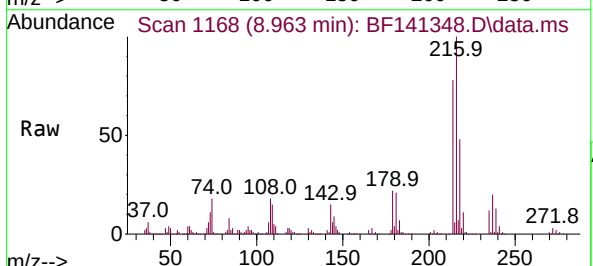
Concen: 41.686 ng

RT: 8.963 min Scan# 1168

Delta R.T. -0.000 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43



Tgt Ion:216 Resp: 374767

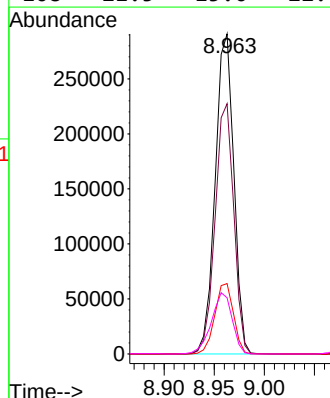
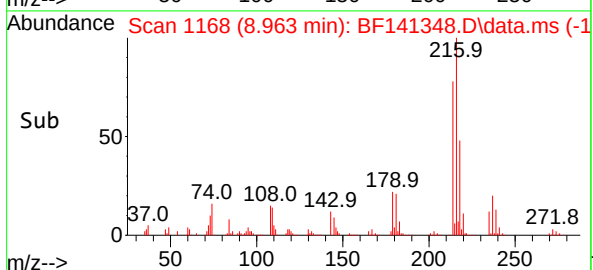
Ion Ratio Lower Upper

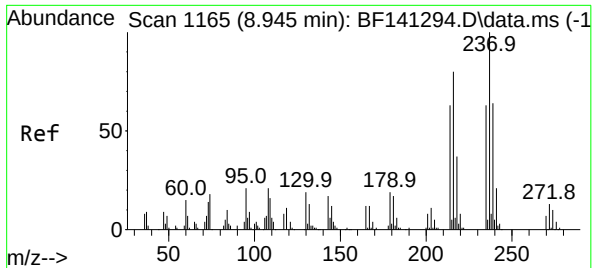
216 100

214 78.4 63.2 94.8

179 22.2 17.8 26.8

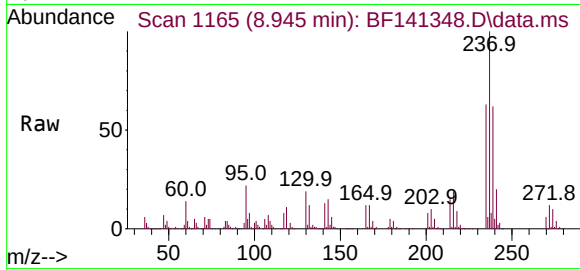
108 21.5 15.0 22.6





#41
Hexachlorocyclopentadiene
Concen: 157.920 ng
RT: 8.945 min Scan# 1165
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

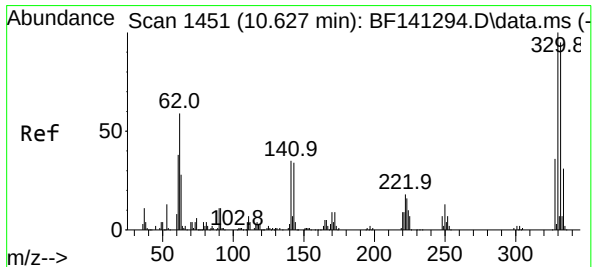
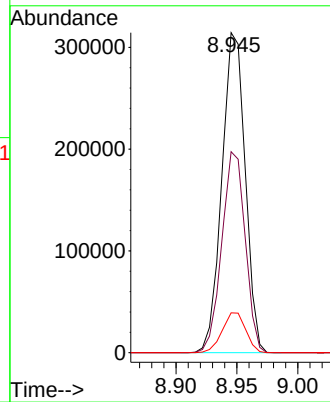
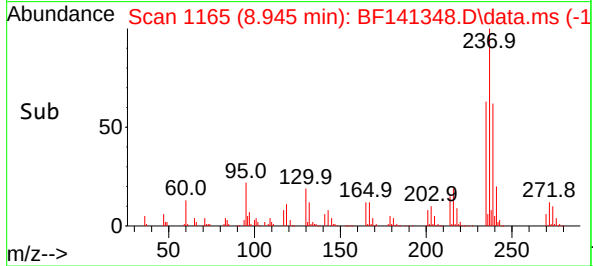
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



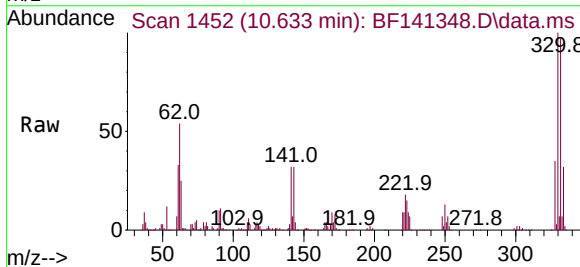
Tgt Ion: 237 Resp: 41928
Ion Ratio Lower Upper
237 100
235 62.8 42.9 82.9
272 12.4 0.0 32.8

Manual Integrations
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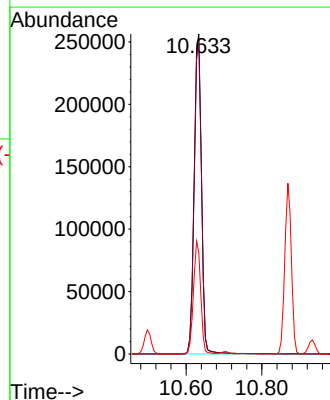
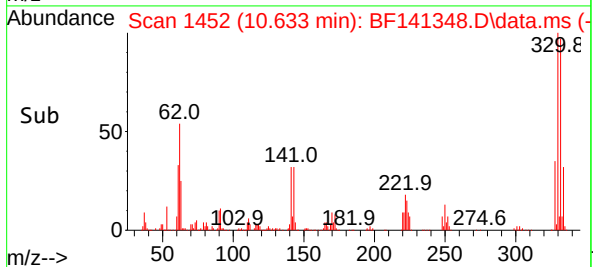
Reviewed By : Jagrut Upadhyay 02/03/2025
Supervised By : mohammad ahmed 02/04/2025

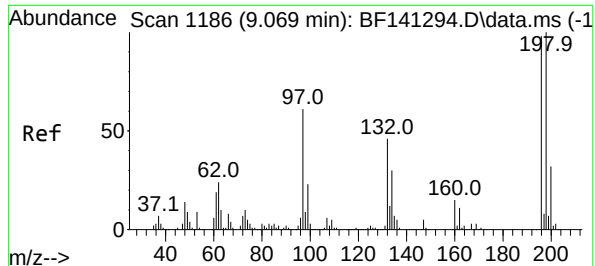


#42
2,4,6-Tribromophenol
Concen: 119.035 ng
RT: 10.633 min Scan# 1452
Delta R.T. -0.000 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43



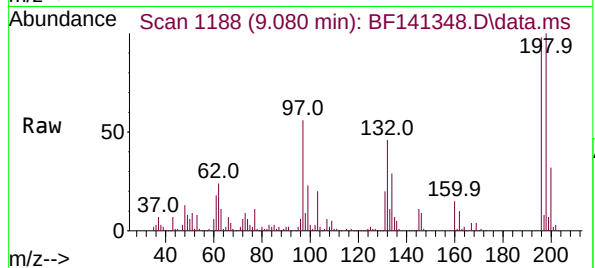
Tgt Ion: 330 Resp: 344857
Ion Ratio Lower Upper
330 100
332 96.7 76.1 114.1
141 34.6 28.8 43.2





#43
2,4,6-Trichlorophenol
Concen: 39.166 ng
RT: 9.080 min Scan# 1186
Delta R.T. 0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

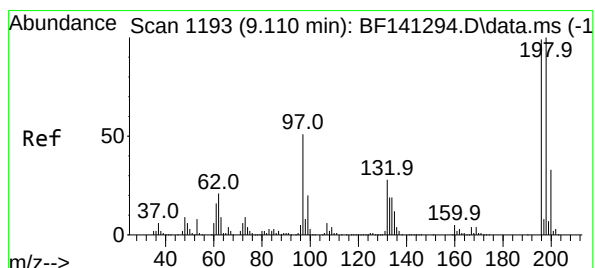
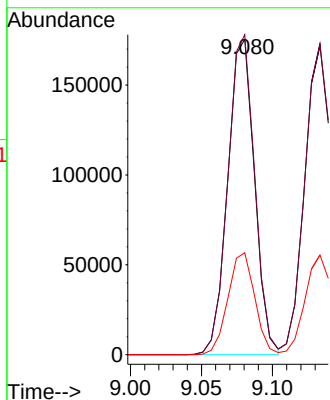
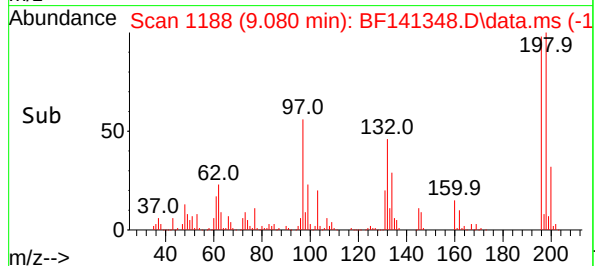
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



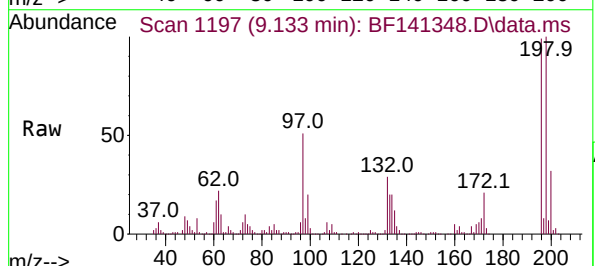
Tgt Ion:196 Resp: 23046
Ion Ratio Lower Upper
196 100
198 101.5 81.8 122.6
200 32.4 26.3 39.5

Manual Integrations
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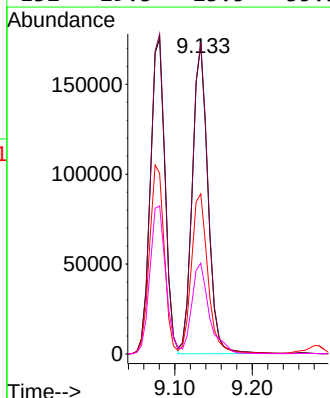
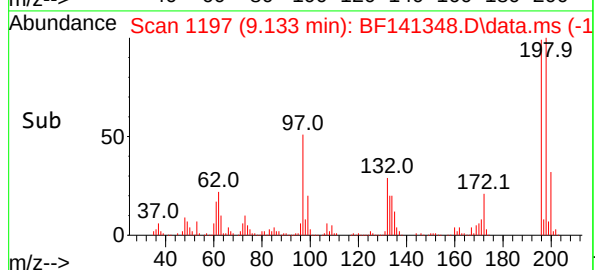
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

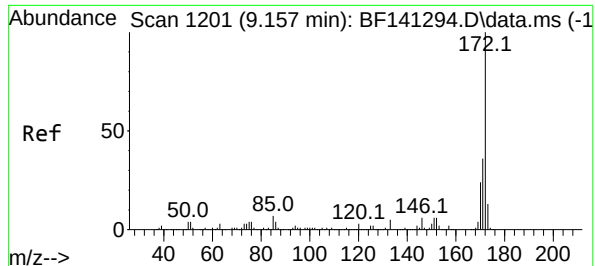


#44
2,4,5-Trichlorophenol
Concen: 37.571 ng
RT: 9.133 min Scan# 1197
Delta R.T. 0.017 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43



Tgt Ion:196 Resp: 240626
Ion Ratio Lower Upper
196 100
198 100.7 80.5 120.7
97 51.8 42.8 64.2
132 29.3 23.5 35.3





#45

2-Fluorobiphenyl

Concen: 80.880 ng

RT: 9.157 min Scan# 1201

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion:172 Resp: 166055

Ion Ratio Lower Upper

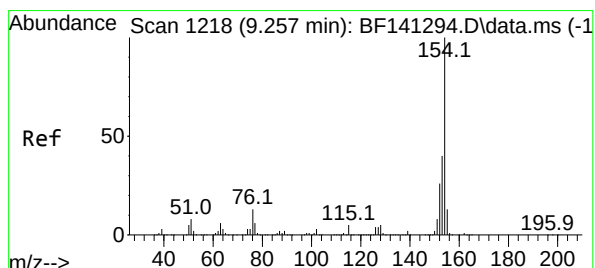
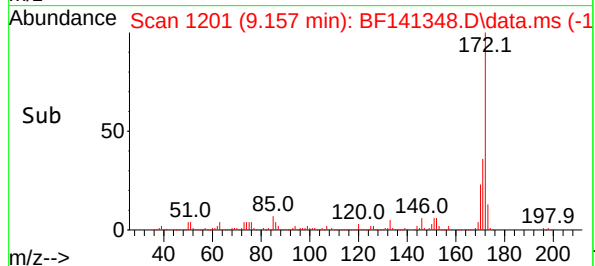
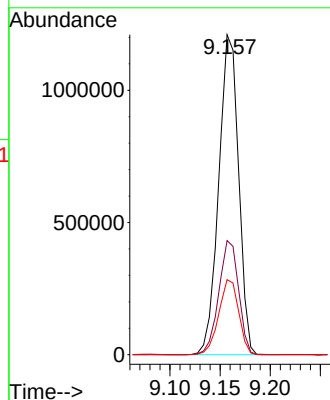
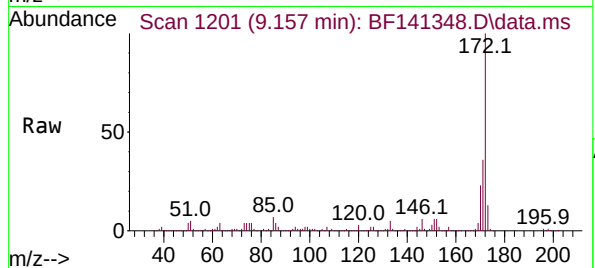
172 100

171 35.7 28.8 43.2

170 23.5 19.0 28.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#46

1,1'-Biphenyl

Concen: 41.955 ng

RT: 9.257 min Scan# 1218

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

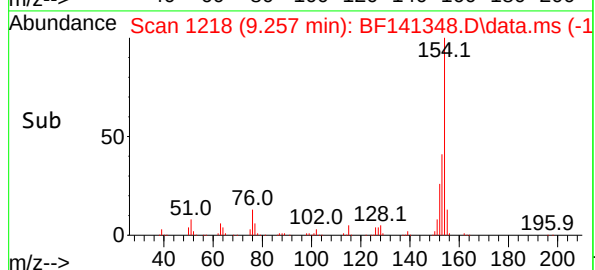
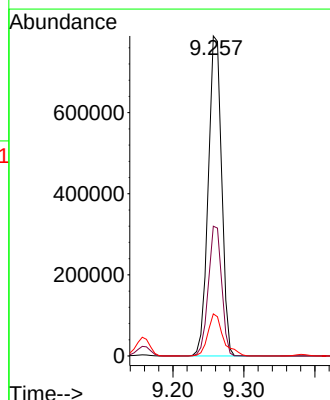
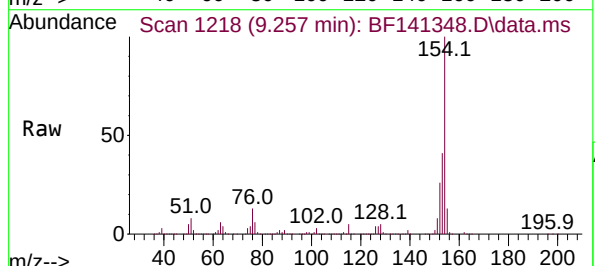
Tgt Ion:154 Resp: 1033995

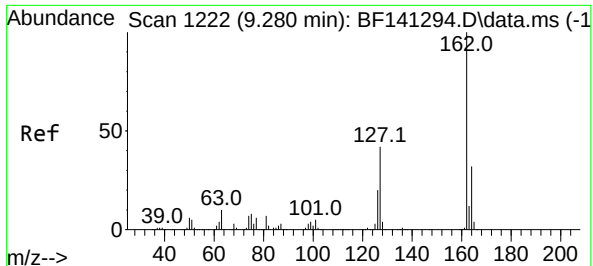
Ion Ratio Lower Upper

154 100

153 40.5 20.0 60.0

76 13.2 0.0 32.8





#47

2-Chloronaphthalene

Concen: 36.709 ng

RT: 9.286 min Scan# 1222

Delta R.T. -0.000 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion:162 Resp: 70516

Ion Ratio Lower Upper

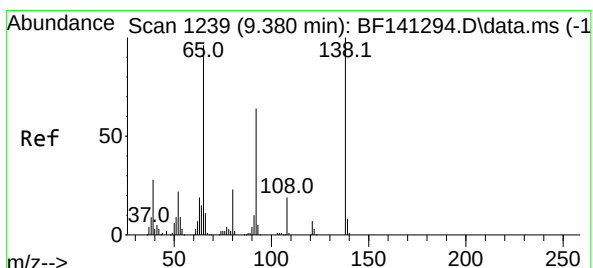
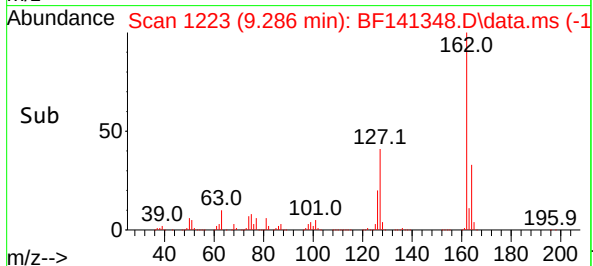
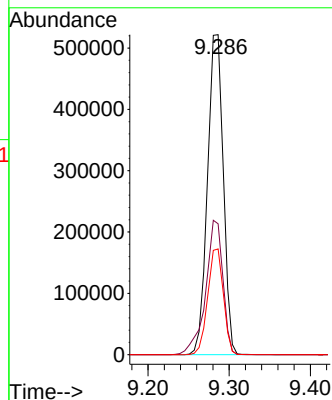
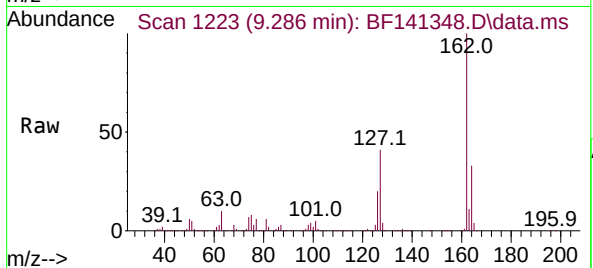
162 100

127 40.9 33.7 50.5

164 33.0 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#48

2-Nitroaniline

Concen: 36.096 ng

RT: 9.380 min Scan# 1239

Delta R.T. -0.000 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

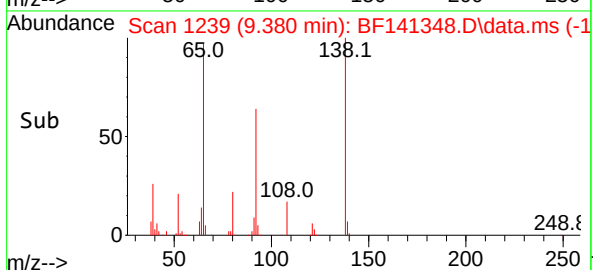
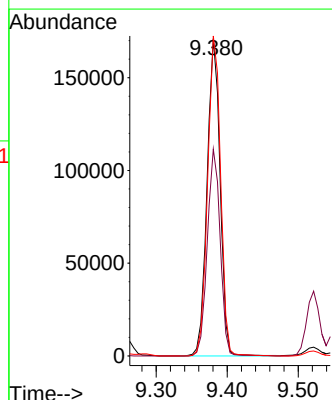
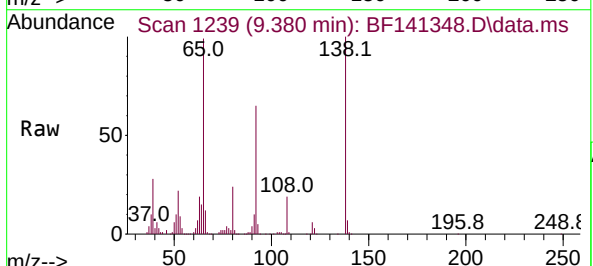
Tgt Ion: 65 Resp: 218096

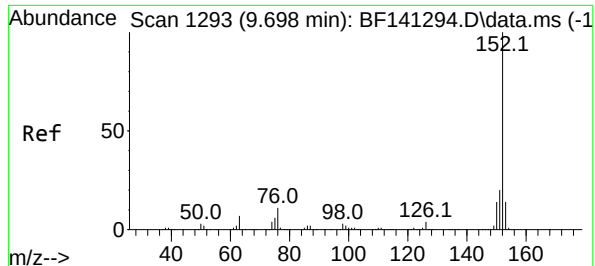
Ion Ratio Lower Upper

65 100

92 65.2 53.3 79.9

138 100.9 83.6 125.4





#49

Acenaphthylene

Concen: 40.000 ng

RT: 9.698 min Scan# 1293

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion:152 Resp: 1075589

Ion Ratio Lower Upper

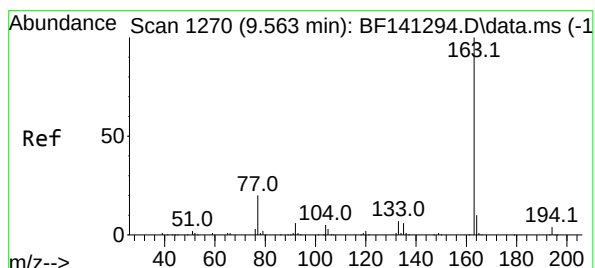
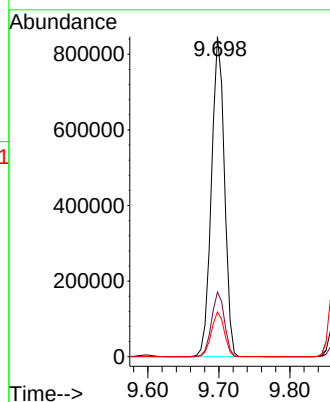
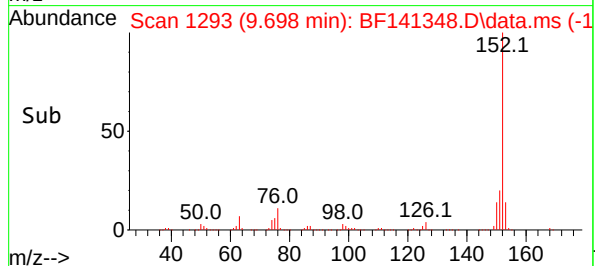
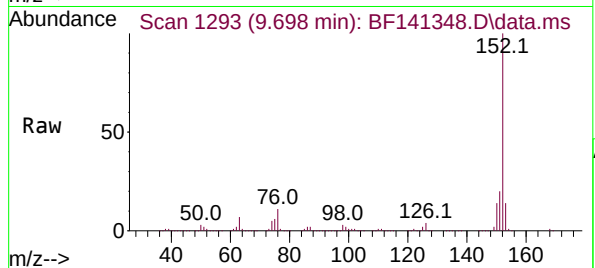
152 100

151 20.2 16.2 24.2

153 14.0 11.0 16.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#50

Dimethylphthalate

Concen: 38.992 ng

RT: 9.563 min Scan# 1270

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

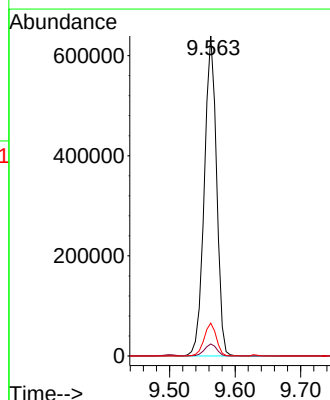
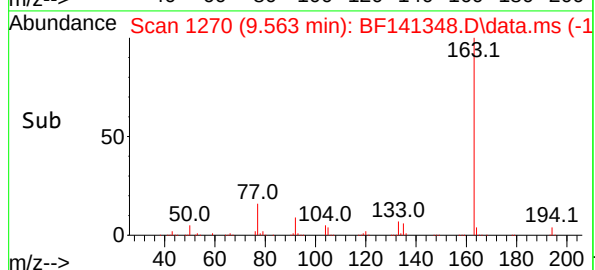
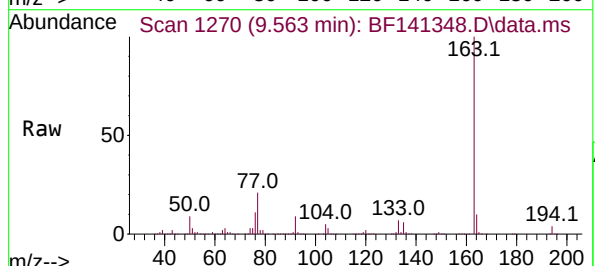
Tgt Ion:163 Resp: 832211

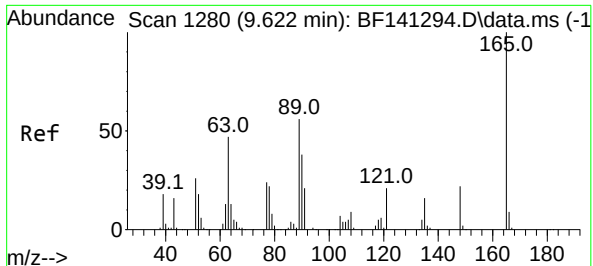
Ion Ratio Lower Upper

163 100

194 3.8 3.0 4.6

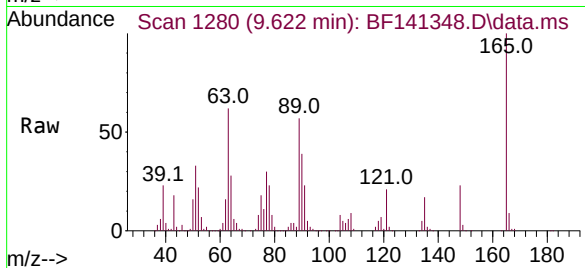
164 10.2 8.0 12.0





#51
2,6-Dinitrotoluene
Concen: 36.554 ng
RT: 9.622 min Scan# 1280
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

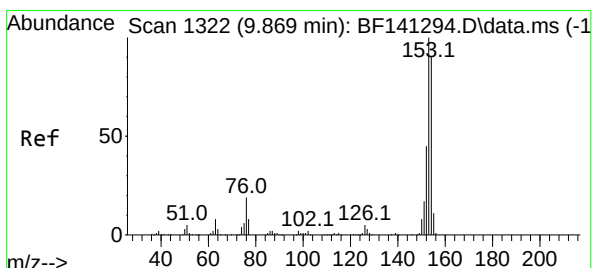
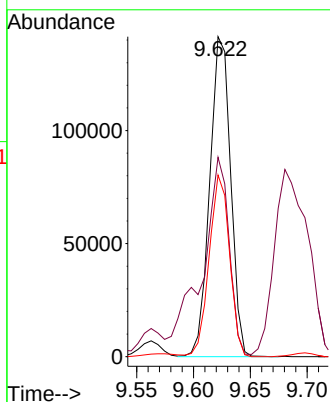
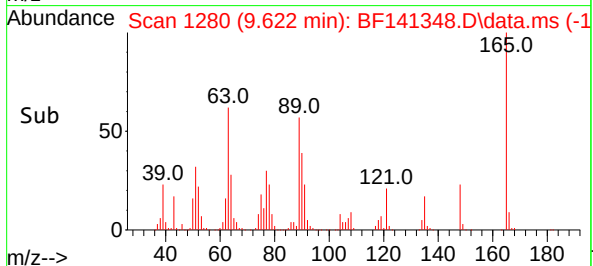
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



Tgt Ion:165 Resp: 18114
Ion Ratio Lower Upper
165 100
63 62.3 48.1 72.1
89 56.8 44.9 67.3

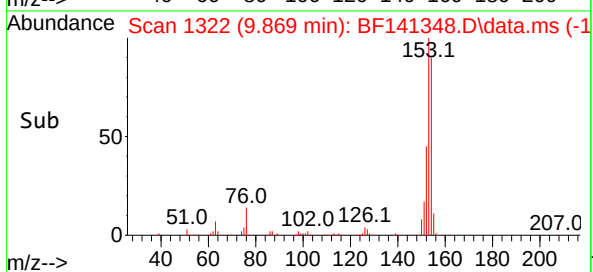
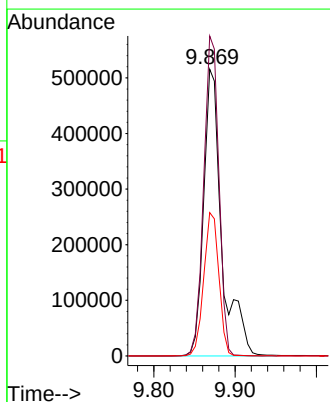
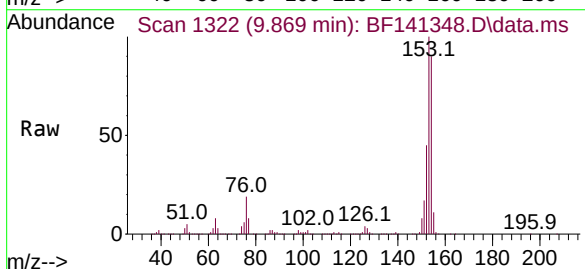
Manual Integrations
APPROVED

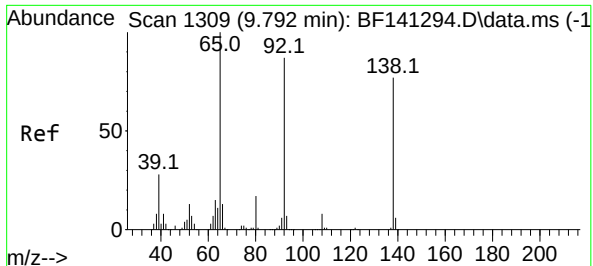
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#52
Acenaphthene
Concen: 41.948 ng m
RT: 9.869 min Scan# 1322
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

Tgt Ion:154 Resp: 805823
Ion Ratio Lower Upper
154 100
153 111.6 89.0 133.4
152 50.0 40.2 60.4





#53

3-Nitroaniline

Concen: 5.762 ng

RT: 9.792 min Scan# 1309

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion:138 Resp: 27980

Ion Ratio Lower Upper

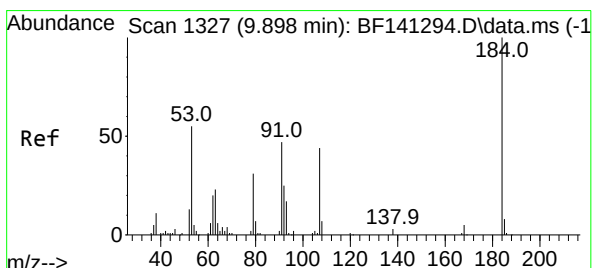
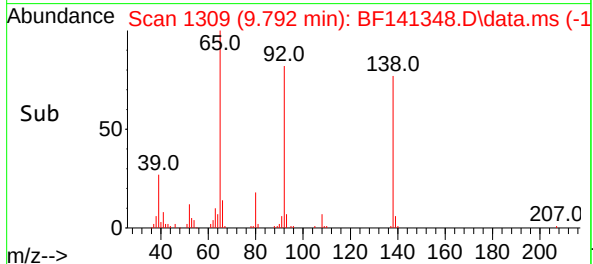
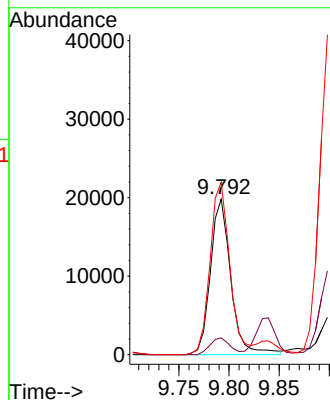
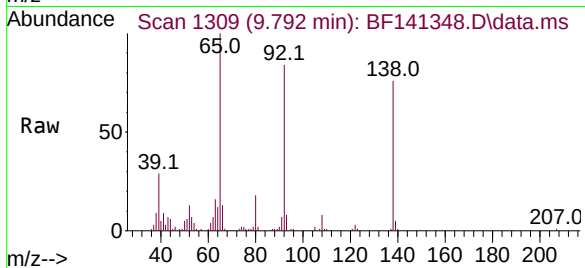
138 100

108 10.8 8.6 12.8

92 110.9 91.0 136.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#54

2,4-Dinitrophenol

Concen: 93.262 ng

RT: 9.904 min Scan# 1328

Delta R.T. -0.000 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

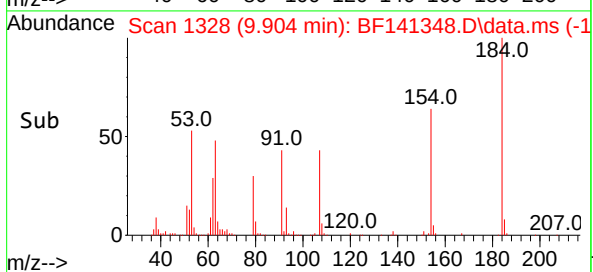
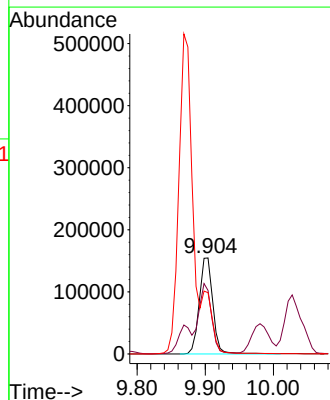
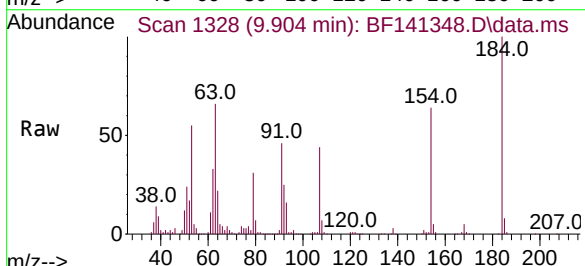
Tgt Ion:184 Resp: 214844

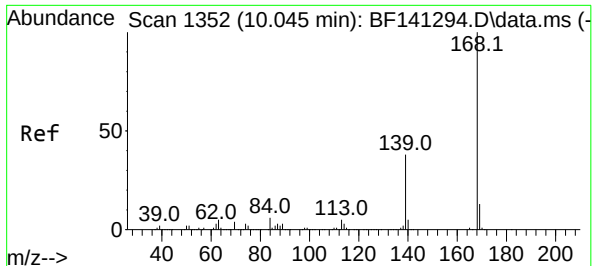
Ion Ratio Lower Upper

184 100

63 66.1 54.1 81.1

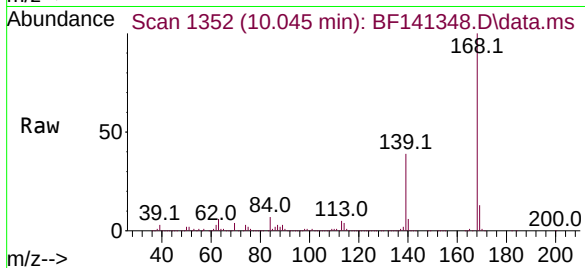
154 63.7 50.7 76.1





#55
Dibenzofuran
Concen: 37.396 ng
RT: 10.045 min Scan# 1352
Delta R.T. -0.000 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

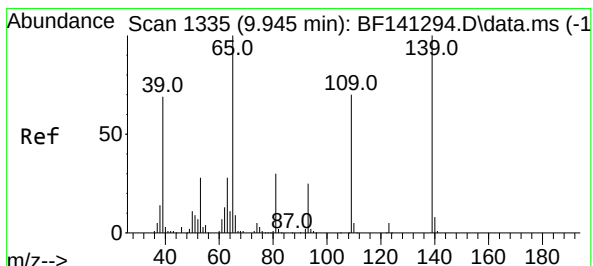
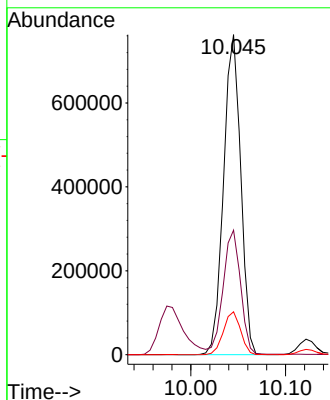
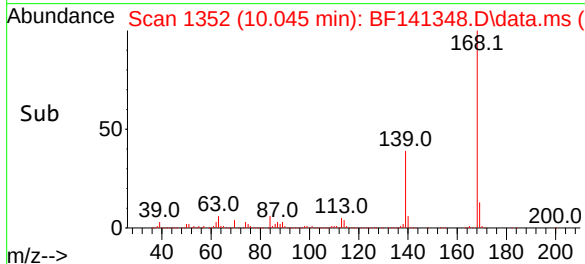
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



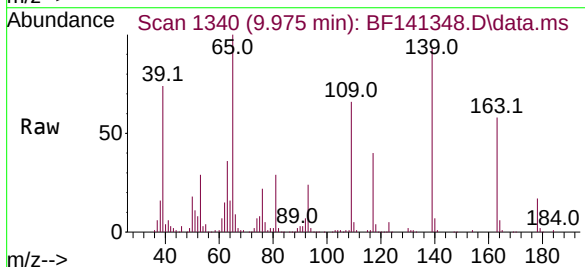
Tgt Ion:168 Resp: 961594
Ion Ratio Lower Upper
168 100
139 38.9 30.6 46.0
169 13.4 10.8 16.2

Manual Integrations
APPROVED

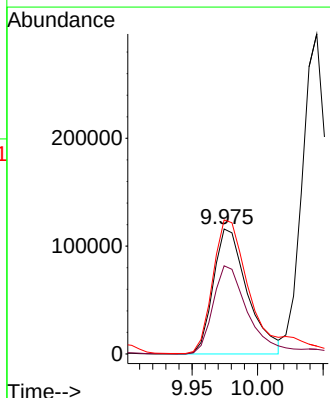
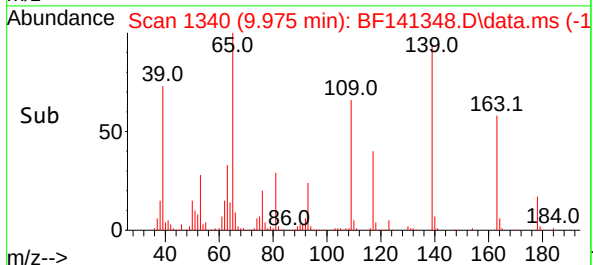
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

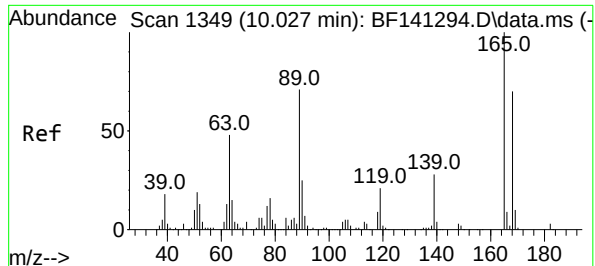


#56
4-Nitrophenol
Concen: 59.137 ng
RT: 9.975 min Scan# 1340
Delta R.T. 0.018 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43



Tgt Ion:139 Resp: 210065
Ion Ratio Lower Upper
139 100
109 70.5 50.2 90.2
65 107.2 80.6 120.6





#57
2,4-Dinitrotoluene
Concen: 36.772 ng
RT: 10.027 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

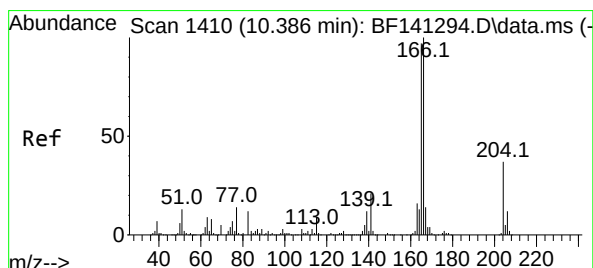
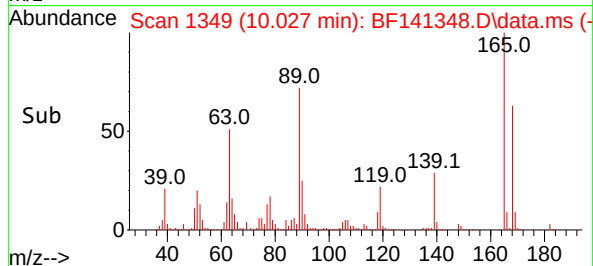
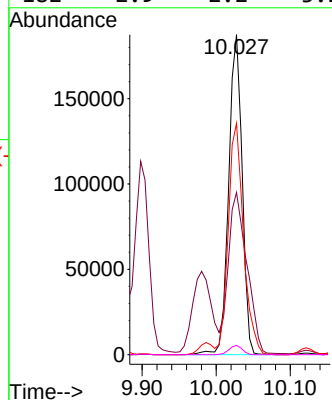
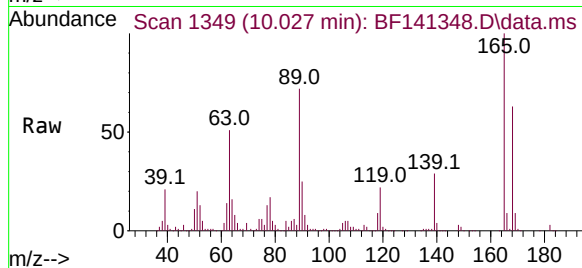
ClientSampleId :

VNJ-236MSD

Tgt Ion:165 Resp: 23593
Ion Ratio Lower Upper
165 100
63 50.7 39.2 58.8
89 72.3 56.9 85.3
182 2.9 2.2 3.2

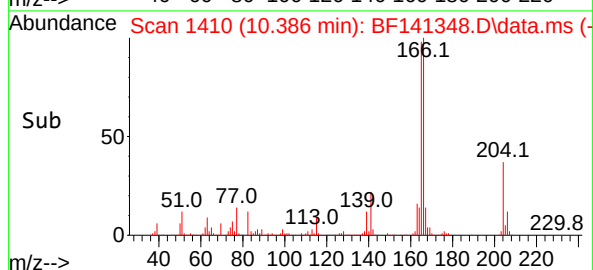
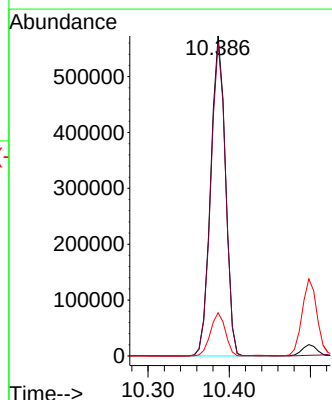
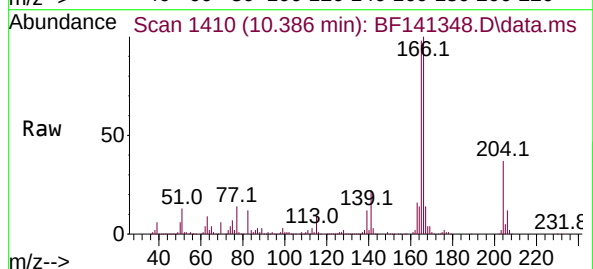
Manual Integrations
APPROVED

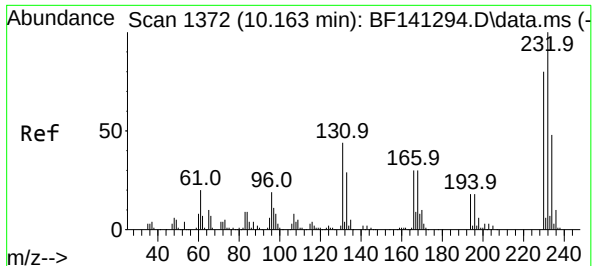
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#58
Fluorene
Concen: 36.239 ng
RT: 10.386 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

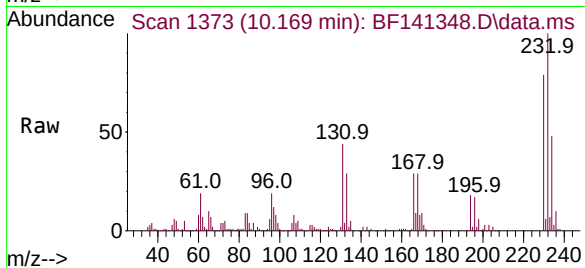
Tgt Ion:166 Resp: 722818
Ion Ratio Lower Upper
166 100
165 97.8 77.5 116.3
167 13.5 10.9 16.3





#59
2,3,4,6-Tetrachlorophenol
Concen: 39.730 ng
RT: 10.169 min Scan# 1372
Delta R.T. 0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

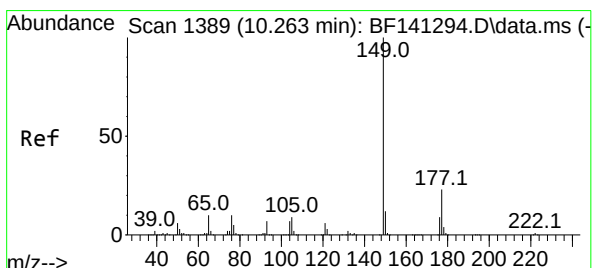
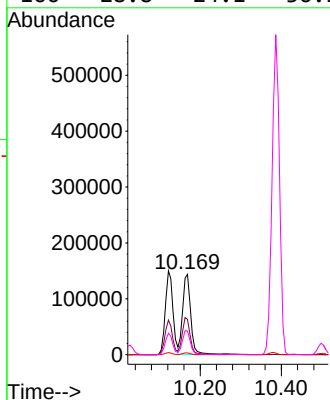
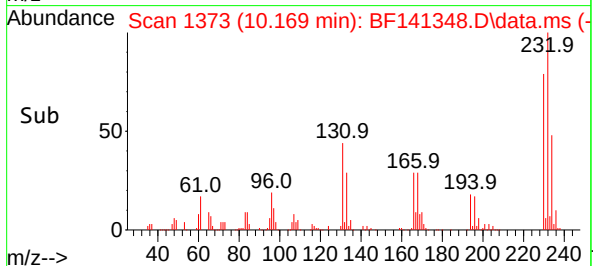
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



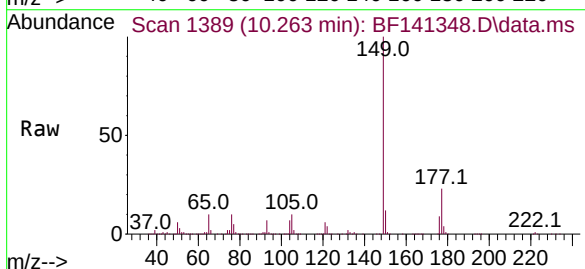
Tgt Ion:232 Resp: 20018
Ion Ratio Lower Upper
232 100
131 45.0 36.4 54.6
130 2.3 1.9 2.9
166 28.8 24.1 36.1

Manual Integrations
APPROVED

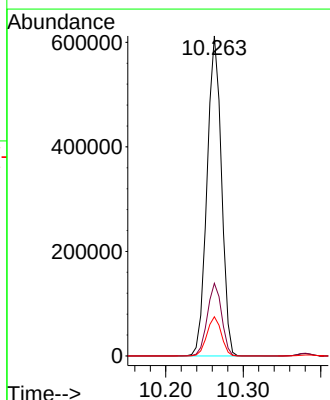
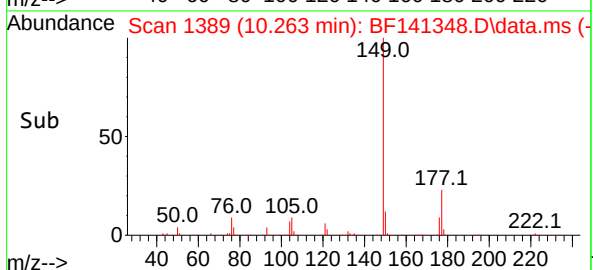
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

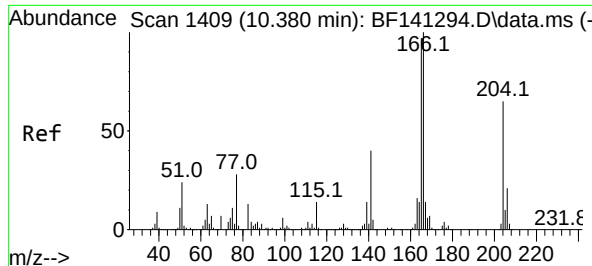


#60
Diethylphthalate
Concen: 38.137 ng
RT: 10.263 min Scan# 1389
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43



Tgt Ion:149 Resp: 789240
Ion Ratio Lower Upper
149 100
177 22.7 18.5 27.7
150 12.3 10.0 15.0





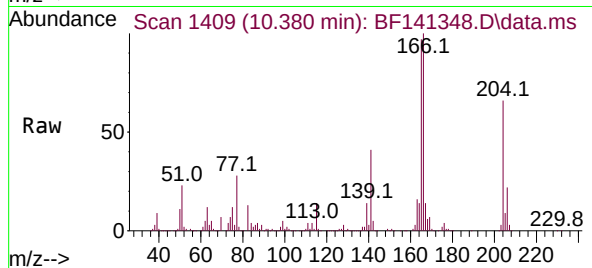
#61
4-Chlorophenyl-phenylether
Concen: 36.398 ng
RT: 10.380 min Scan# 1409
Delta R.T. -0.000 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

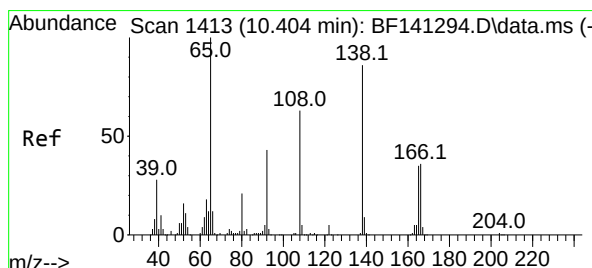
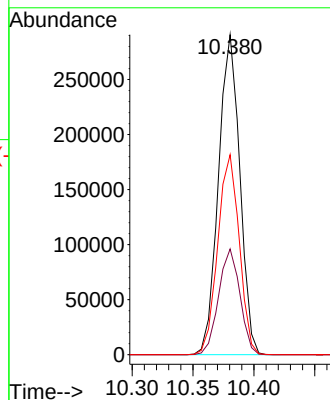
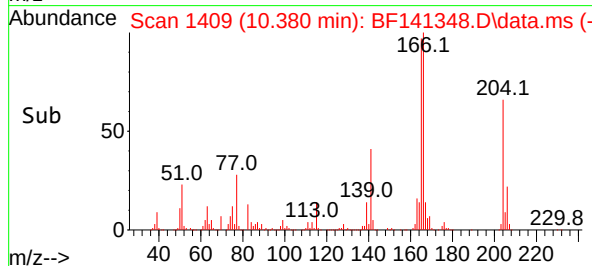
VNJ-236MSD



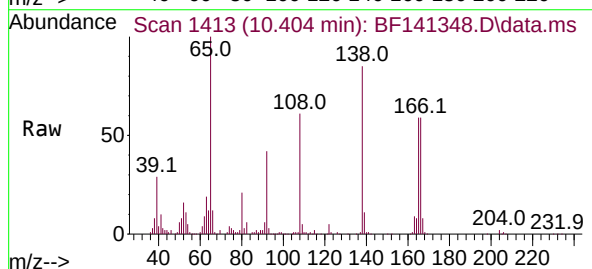
Tgt Ion:204 Resp: 35462
Ion Ratio Lower Upper
204 100
206 33.0 25.9 38.9
141 62.5 49.5 74.3

Manual Integrations
APPROVED

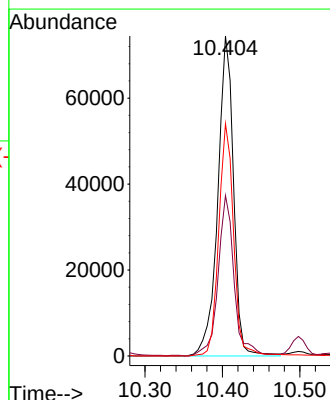
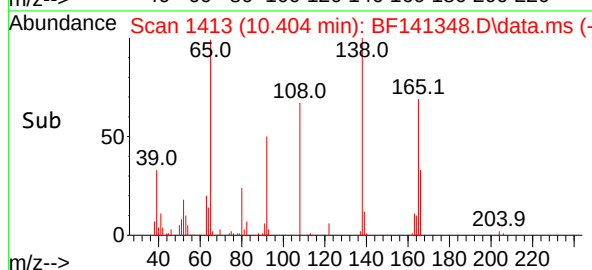
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

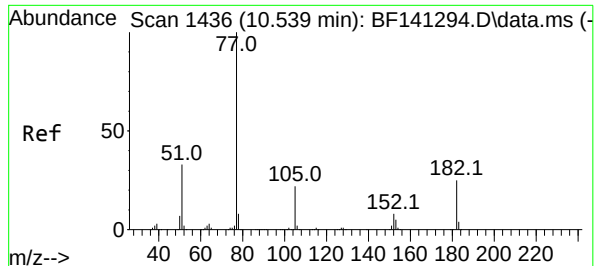


#62
4-Nitroaniline
Concen: 22.078 ng
RT: 10.404 min Scan# 1413
Delta R.T. -0.012 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43



Tgt Ion:138 Resp: 105426
Ion Ratio Lower Upper
138 100
92 50.2 30.1 70.1
108 72.6 53.1 93.1





#63

Azobenzene

Concen: 36.883 ng

RT: 10.539 min Scan# 1436

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion: 77 Resp: 764030

Ion Ratio Lower Upper

77 100

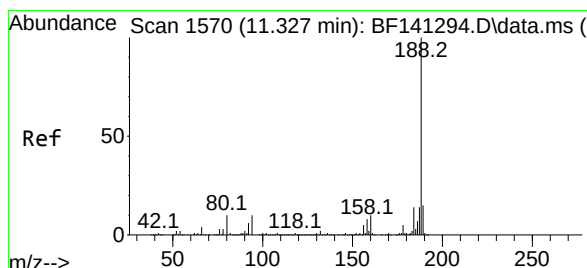
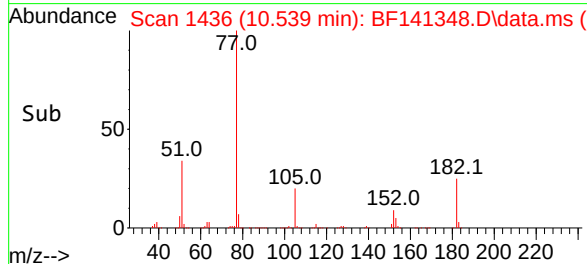
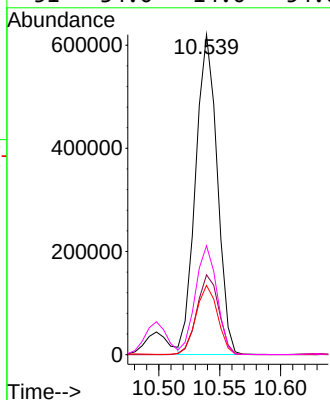
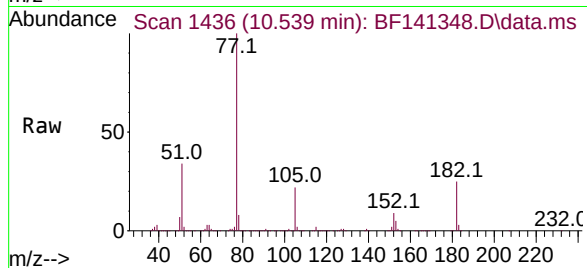
182 24.9 5.1 45.1

105 21.6 1.8 41.8

51 34.0 14.0 54.0

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.327 min Scan# 1570

Delta R.T. -0.000 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

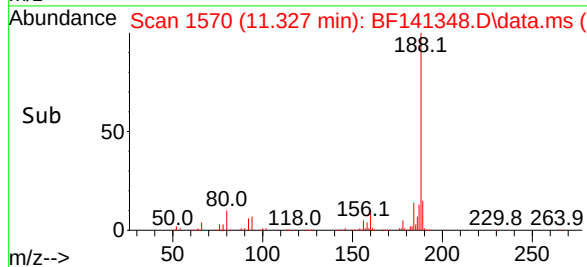
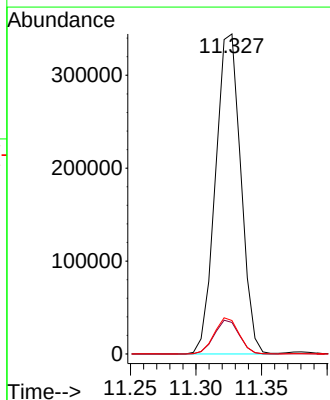
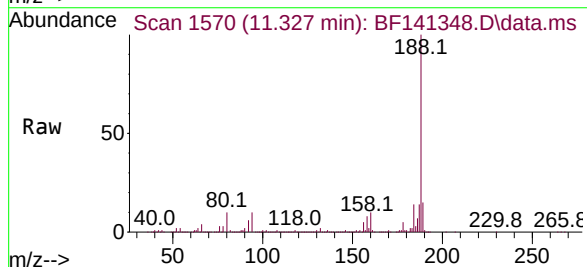
Tgt Ion:188 Resp: 461856

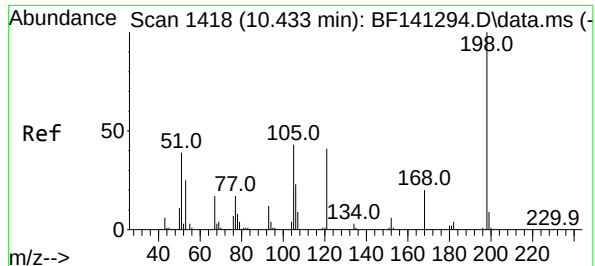
Ion Ratio Lower Upper

188 100

94 9.9 7.8 11.6

80 10.4 8.2 12.4





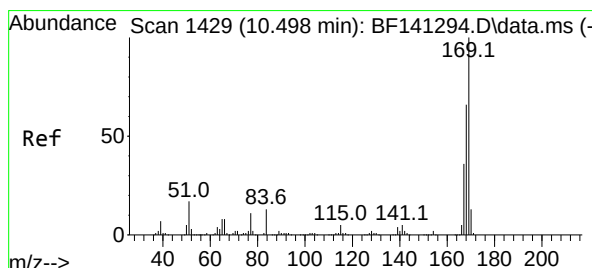
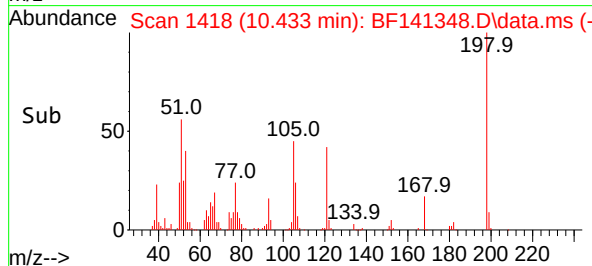
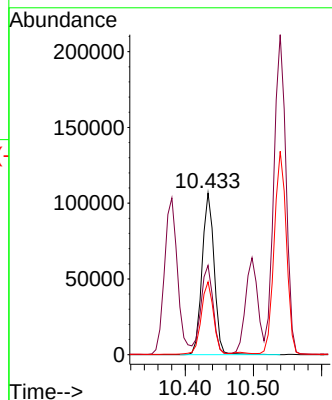
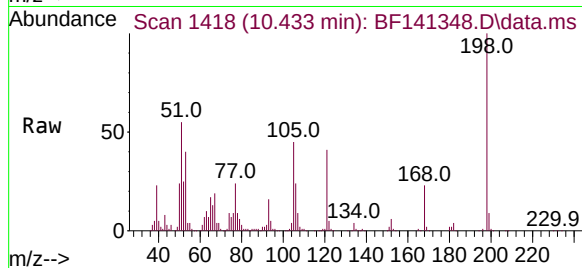
#65
4,6-Dinitro-2-methylphenol
Concen: 48.019 ng
RT: 10.433 min Scan# 1418
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD

Tgt Ion:198 Resp: 13118
Ion Ratio Lower Upper
198 100
51 55.3 33.4 73.4
105 45.1 24.4 64.4

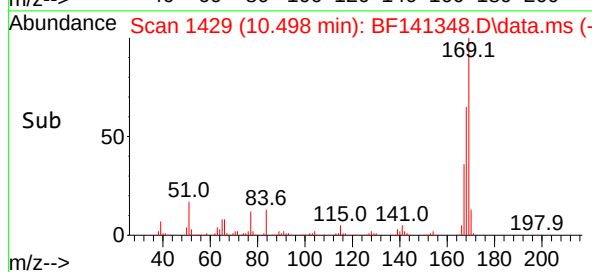
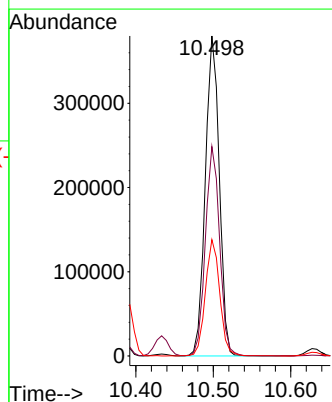
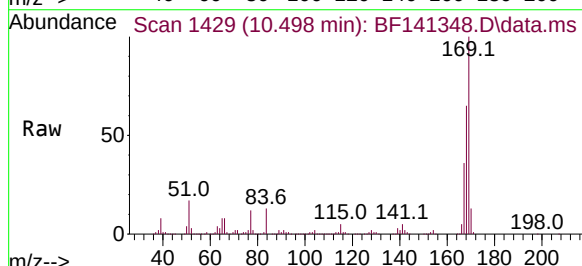
Manual Integrations
APPROVED

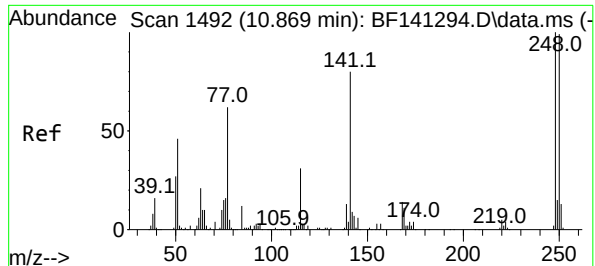
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#66
n-Nitrosodiphenylamine
Concen: 31.854 ng
RT: 10.498 min Scan# 1429
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

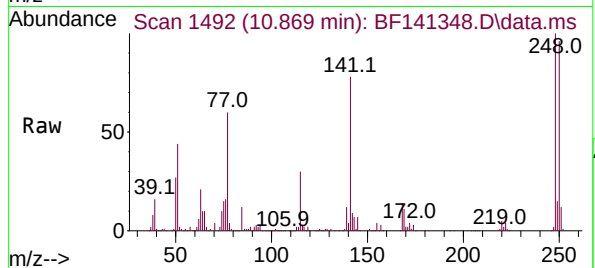
Tgt Ion:169 Resp: 475837
Ion Ratio Lower Upper
169 100
168 65.5 53.0 79.4
167 36.3 28.8 43.2





#67
4-Bromophenyl-phenylether
Concen: 42.585 ng
RT: 10.869 min Scan# 1492
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

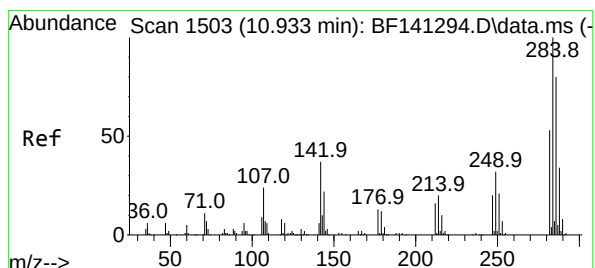
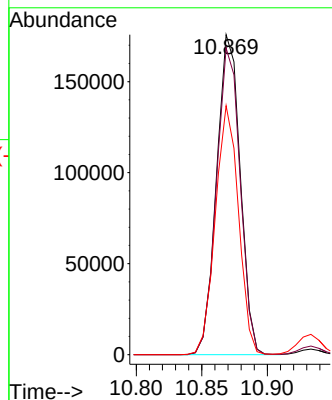
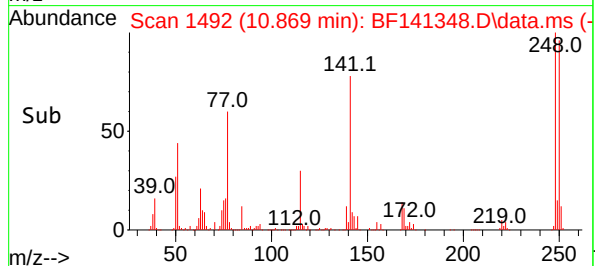
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



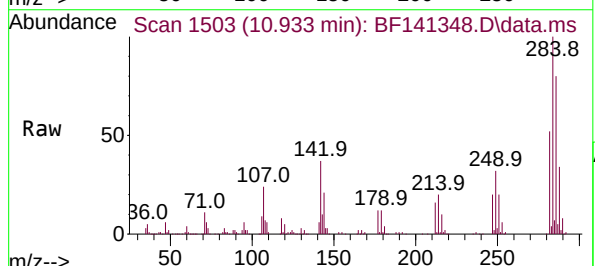
Tgt Ion:248 Resp: 220189
Ion Ratio Lower Upper
248 100
250 95.8 79.0 118.4
141 77.8 63.7 95.5

Manual Integrations
APPROVED

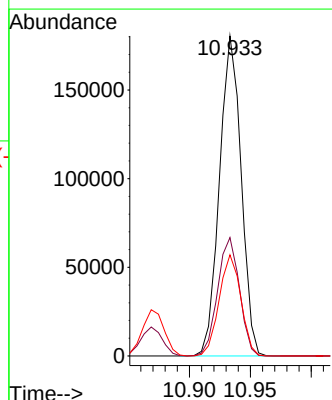
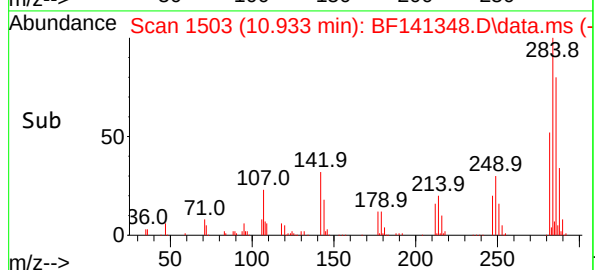
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

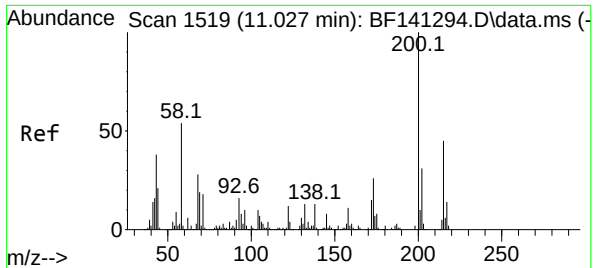


#68
Hexachlorobenzene
Concen: 40.786 ng
RT: 10.933 min Scan# 1503
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43



Tgt Ion:284 Resp: 223703
Ion Ratio Lower Upper
284 100
142 37.0 29.5 44.3
249 31.6 25.4 38.2





#69

Atrazine

Concen: 27.536 ng

RT: 11.027 min Scan# 1519

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

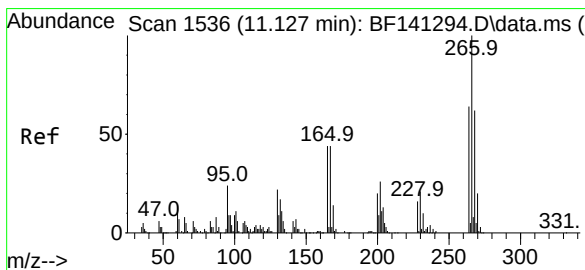
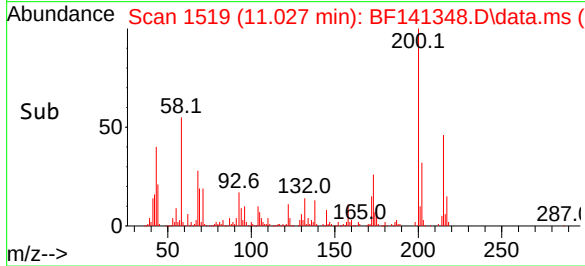
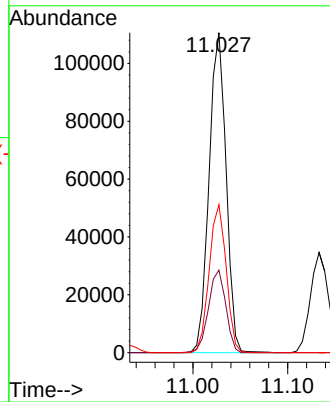
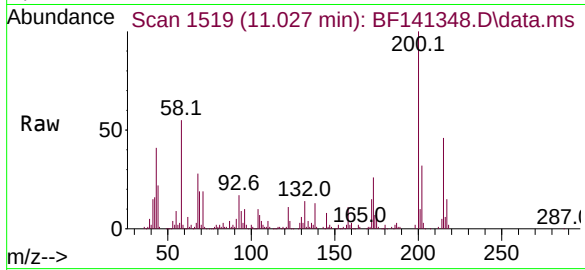
VNJ-236MSD

Tgt Ion:	200	Resp:	137528
Ion Ratio	Lower	Upper	
200	100		
173	25.8	5.9	45.9
215	46.2	25.2	65.2

Manual Integrations

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Reviewed By :Jagrut Upadhyay 02/03/2025
 Supervised By :mohammad ahmed 02/04/2025



#70

Pentachlorophenol

Concen: 77.349 ng

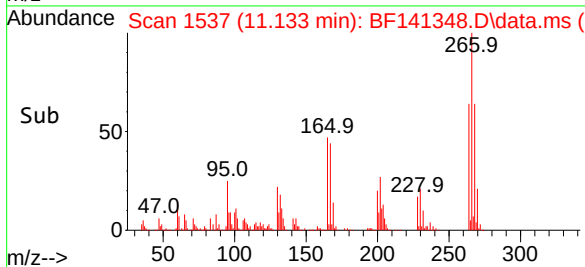
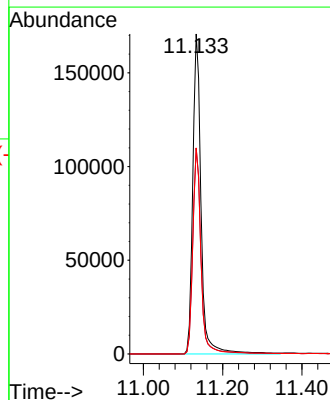
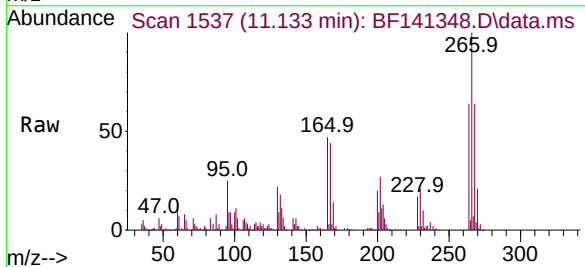
RT: 11.133 min Scan# 1537

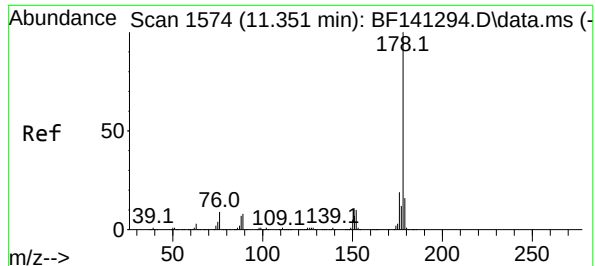
Delta R.T. -0.000 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Tgt Ion:	266	Resp:	248426
Ion Ratio	Lower	Upper	
266	100		
268	64.3	49.9	74.9
264	64.4	51.0	76.4





#71

Phenanthrene

Concen: 39.003 ng

RT: 11.351 min Scan# 1574

Delta R.T. -0.000 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion:178 Resp: 96830

Ion Ratio Lower Upper

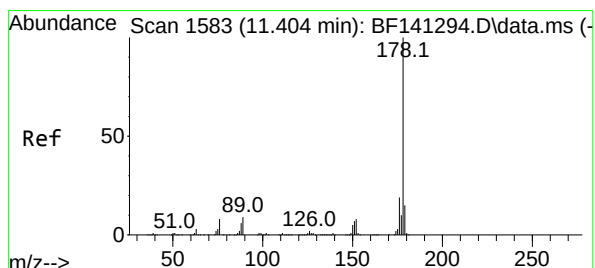
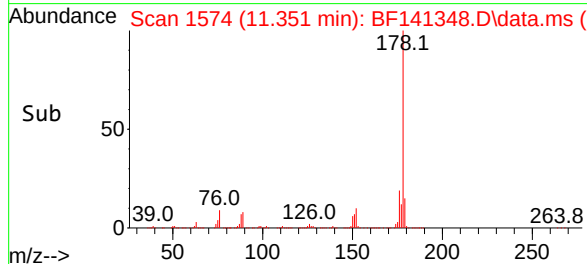
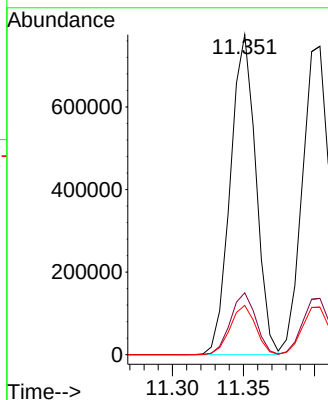
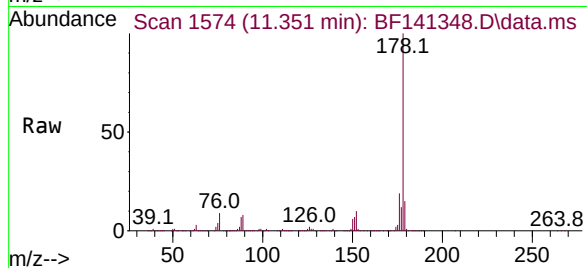
178 100

176 19.3 15.3 22.9

179 15.4 12.5 18.7

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#72

Anthracene

Concen: 40.515 ng

RT: 11.404 min Scan# 1583

Delta R.T. -0.000 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

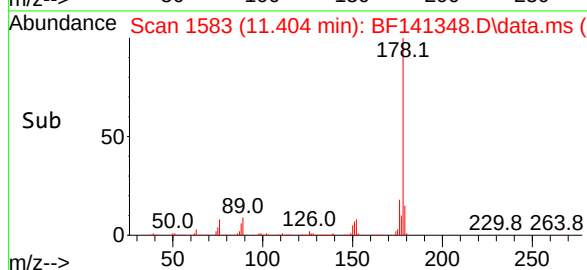
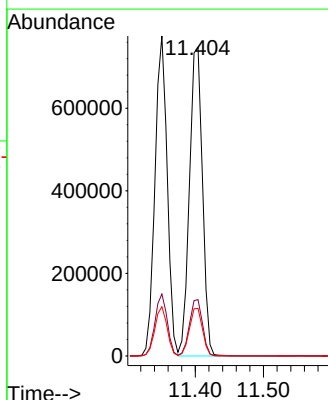
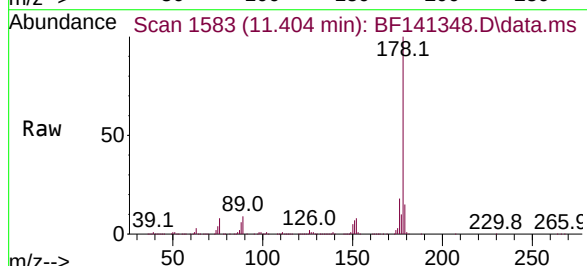
Tgt Ion:178 Resp: 985565

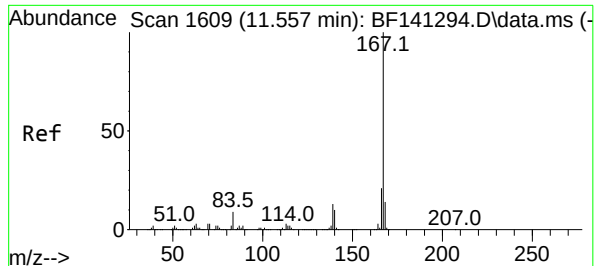
Ion Ratio Lower Upper

178 100

176 18.3 15.0 22.6

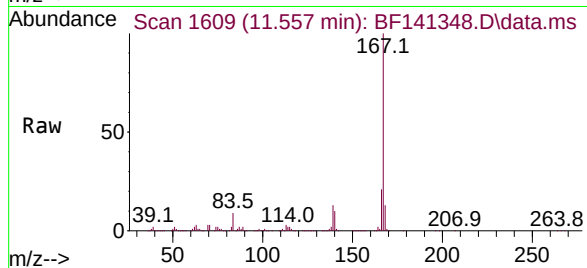
179 15.4 12.3 18.5





#73
Carbazole
Concen: 29.580 ng
RT: 11.557 min Scan# 1609
Delta R.T. -0.000 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

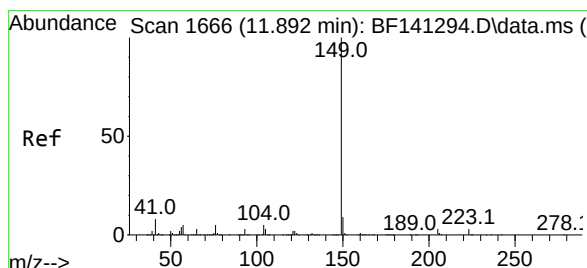
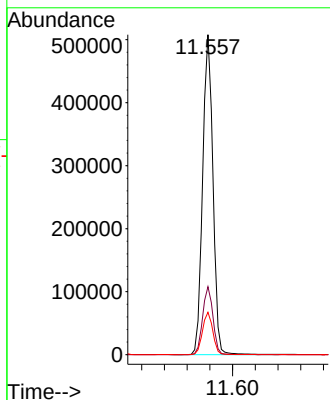
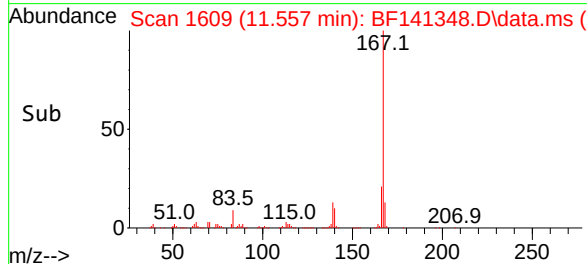
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



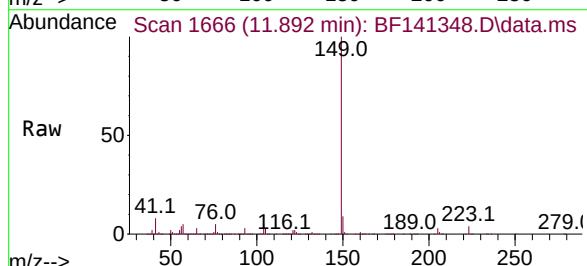
Tgt Ion:167 Resp: 638050
Ion Ratio Lower Upper
167 100
166 21.2 17.0 25.6
139 13.3 10.6 16.0

Manual Integrations
APPROVED

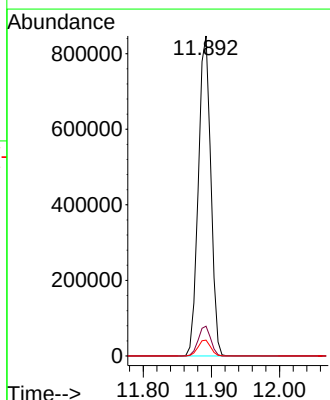
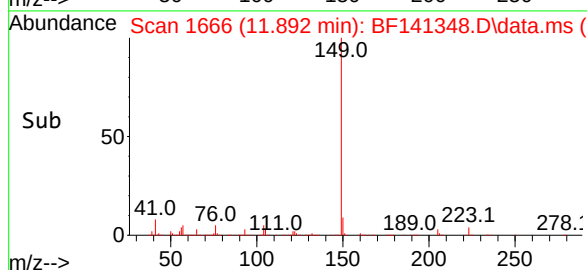
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

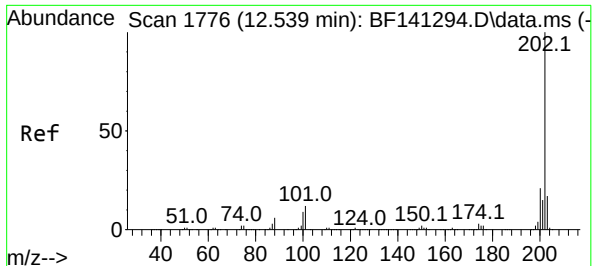


#74
Di-n-butylphthalate
Concen: 40.967 ng
RT: 11.892 min Scan# 1666
Delta R.T. 0.000 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43



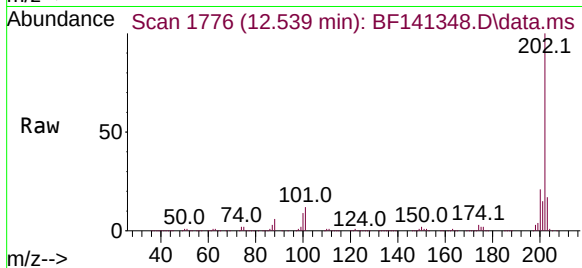
Tgt Ion:149 Resp: 1070897
Ion Ratio Lower Upper
149 100
150 9.3 7.4 11.2
104 5.0 3.9 5.9





#75
Fluoranthene
Concen: 33.615 ng
RT: 12.539 min Scan# 1776
Delta R.T. -0.000 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

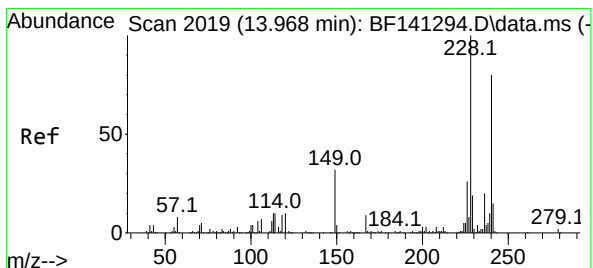
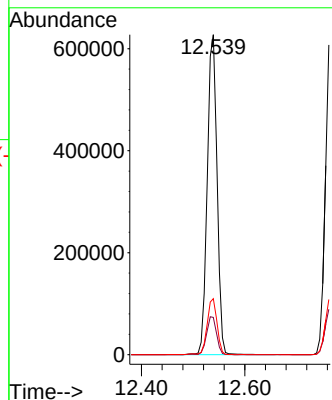
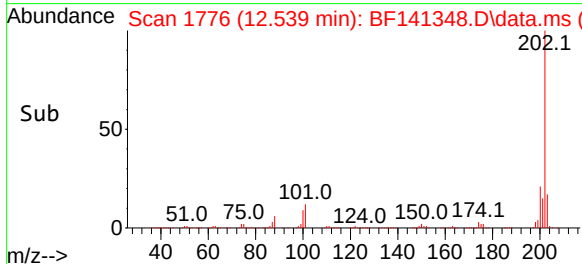
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



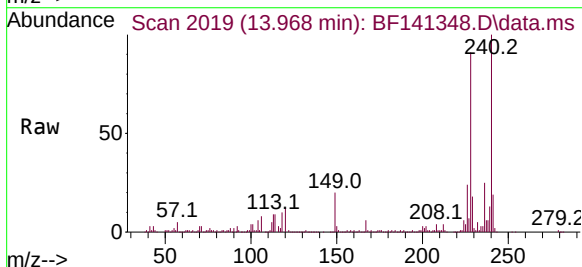
Tgt Ion:202 Resp: 82403
Ion Ratio Lower Upper
202 100
101 11.7 0.0 31.7
203 17.5 0.0 37.5

Manual Integrations
APPROVED

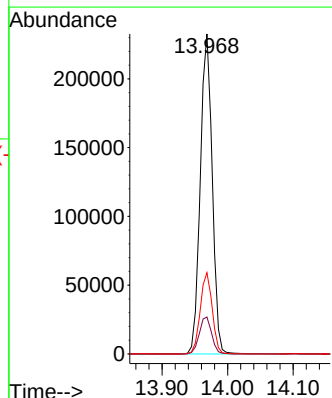
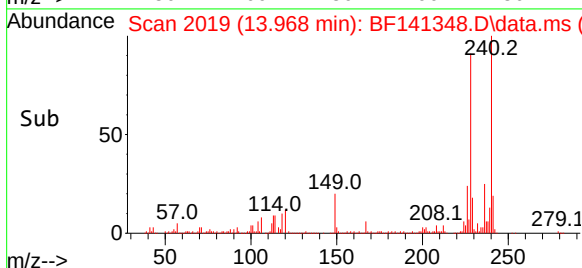
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

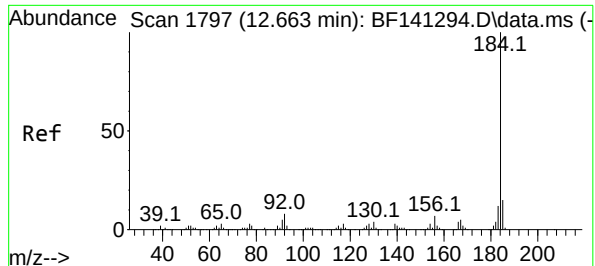


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.968 min Scan# 2019
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43



Tgt Ion:240 Resp: 294849
Ion Ratio Lower Upper
240 100
120 11.6 10.0 15.0
236 25.4 19.7 29.5





#77

Benzidine

Concen: 4.998 ng

RT: 12.674 min Scan# 1799

Delta R.T. 0.012 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

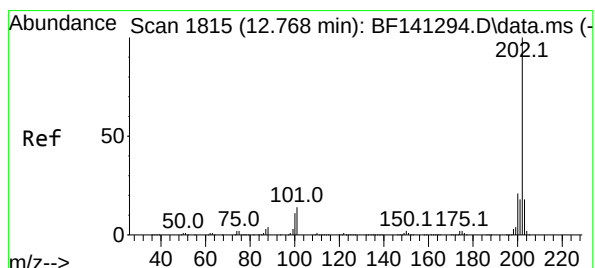
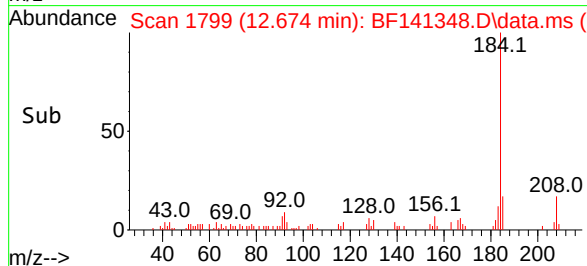
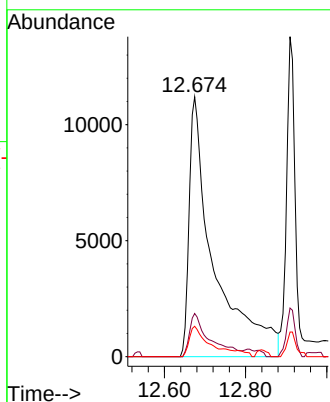
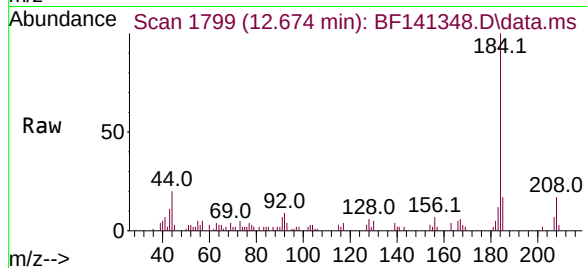
ClientSampleId :

VNJ-236MSD

Tgt Ion:	184	Resp:	4724
Ion Ratio	Lower	Upper	
184	100		
185	16.6	11.9	17.9
183	11.7	9.5	14.3

Manual Integrations
APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#78

Pyrene

Concen: 29.323 ng

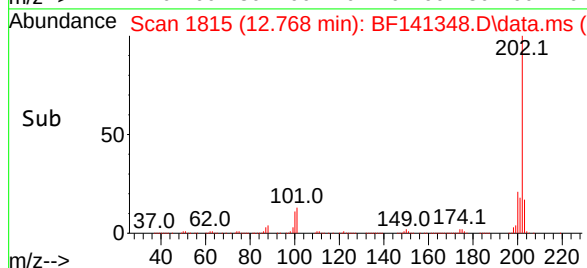
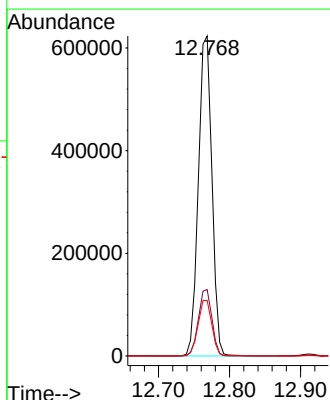
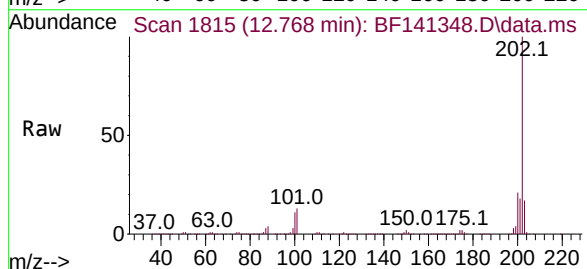
RT: 12.768 min Scan# 1815

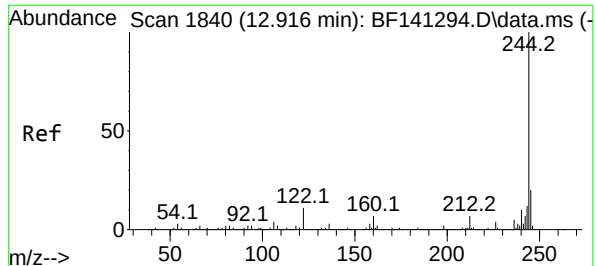
Delta R.T. -0.000 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Tgt Ion:	202	Resp:	829915
Ion Ratio	Lower	Upper	
202	100		
200	20.7	17.0	25.4
203	17.4	14.3	21.5





#79

Terphenyl-d14

Concen: 69.367 ng

RT: 12.910 min Scan# 1839

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion:244 Resp: 132621

Ion Ratio Lower Upper

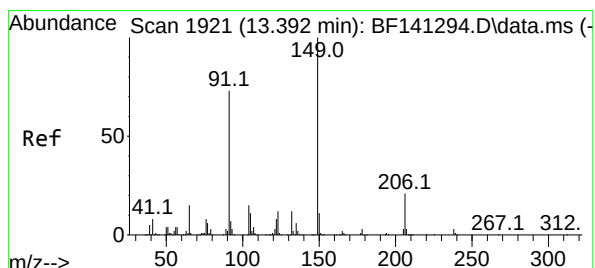
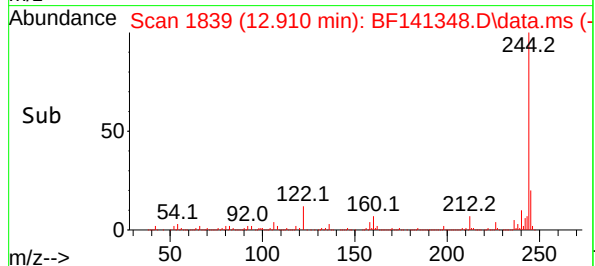
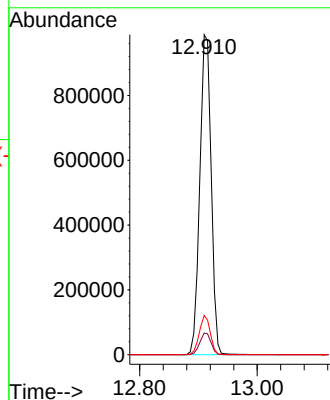
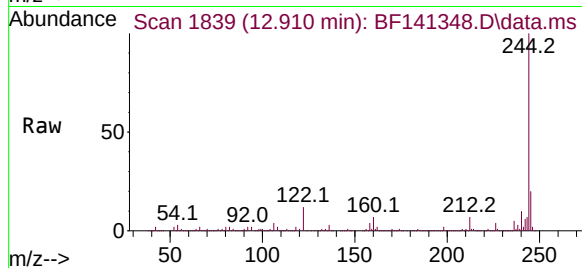
244 100

212 6.8 5.4 8.0

122 12.2 8.8 13.2

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#80

Butylbenzylphthalate

Concen: 35.128 ng

RT: 13.392 min Scan# 1921

Delta R.T. -0.000 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

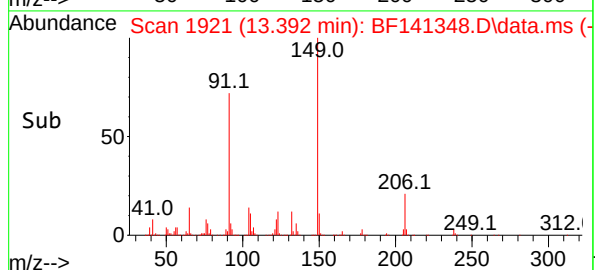
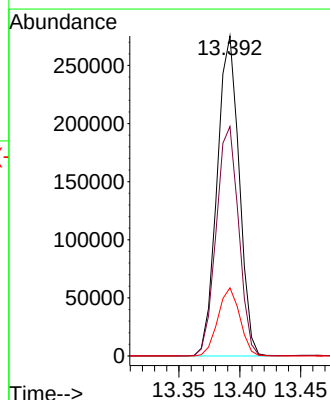
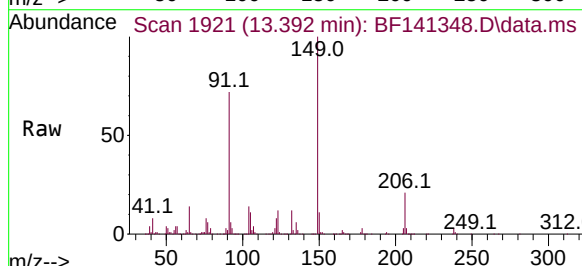
Tgt Ion:149 Resp: 347341

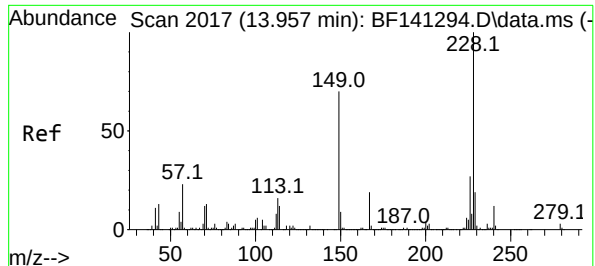
Ion Ratio Lower Upper

149 100

91 71.7 58.6 87.8

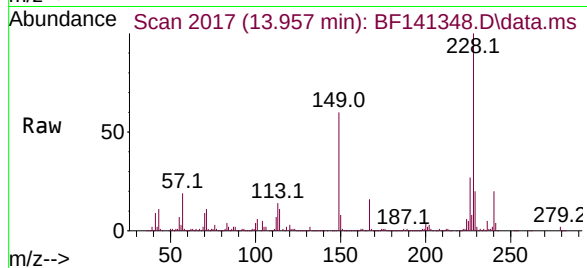
206 21.3 16.7 25.1





#81
Benzo(a)anthracene
Concen: 34.975 ng
RT: 13.957 min Scan# 2017
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

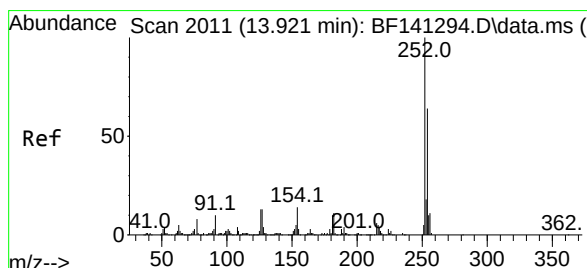
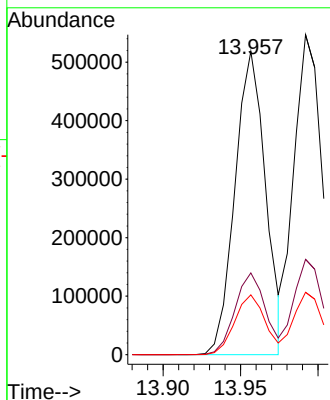
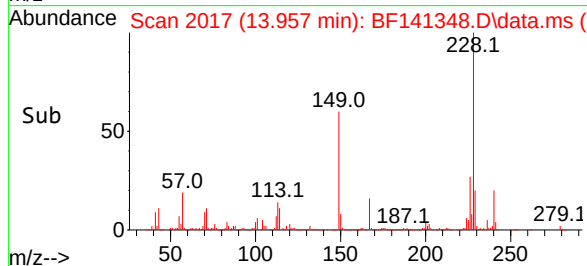
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



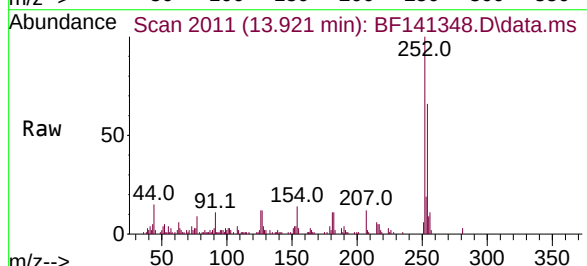
Tgt Ion:228 Resp: 711602
Ion Ratio Lower Upper
228 100
226 27.0 21.4 32.2
229 19.7 15.5 23.3

Manual Integrations
APPROVED

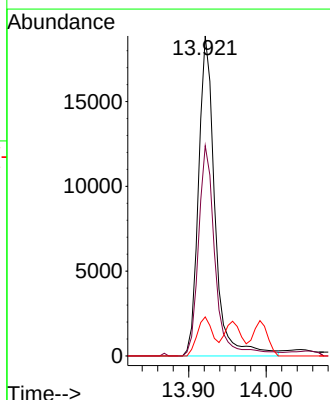
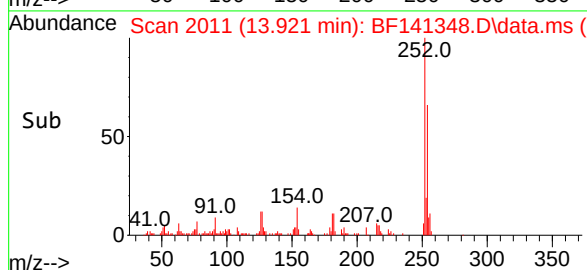
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

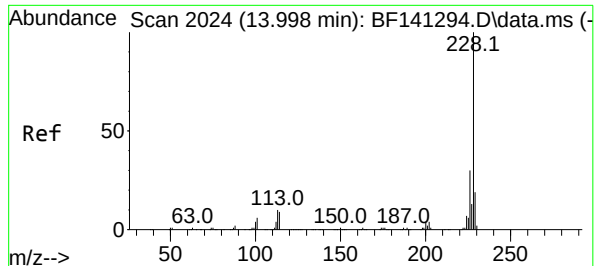


#82
3,3'-Dichlorobenzidine
Concen: 4.291 ng
RT: 13.921 min Scan# 2011
Delta R.T. -0.006 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43



Tgt Ion:252 Resp: 27766
Ion Ratio Lower Upper
252 100
254 65.7 51.3 76.9
126 12.2 10.0 15.0





#83

Chrysene

Concen: 37.369 ng

RT: 13.992 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion:228 Resp: 69680

Ion Ratio Lower Upper

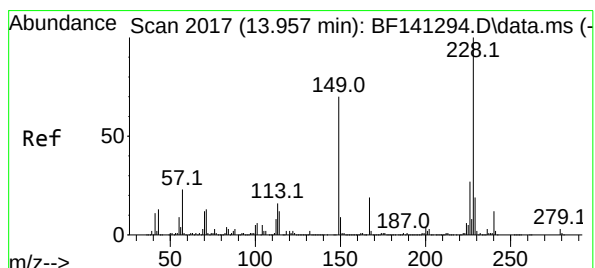
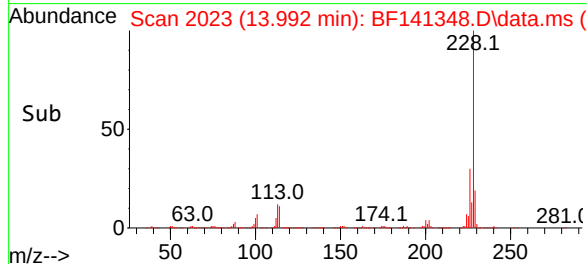
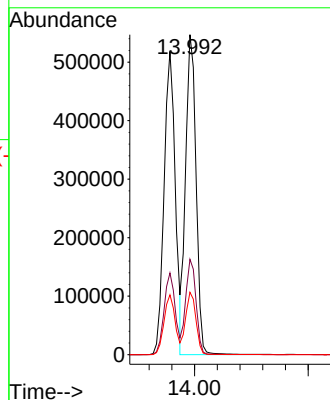
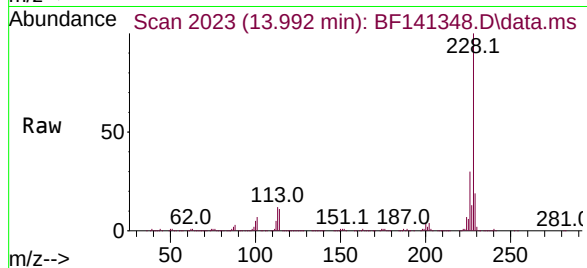
228 100

226 29.8 24.1 36.1

229 19.5 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#84

Bis(2-ethylhexyl)phthalate

Concen: 36.774 ng

RT: 13.951 min Scan# 2016

Delta R.T. -0.006 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

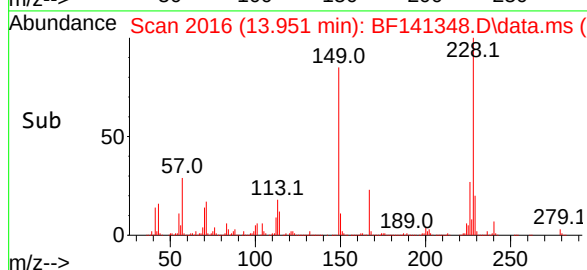
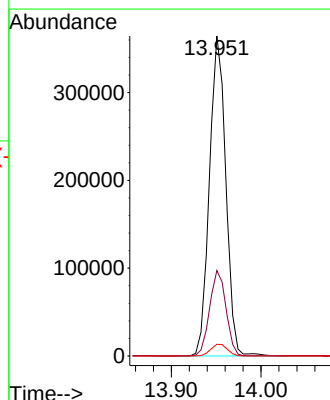
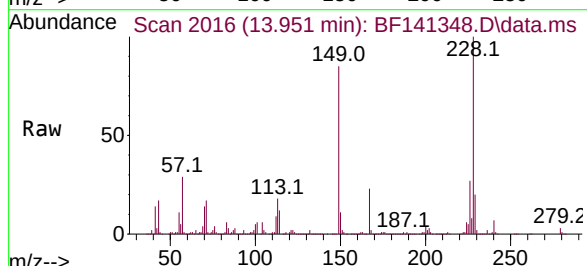
Tgt Ion:149 Resp: 461252

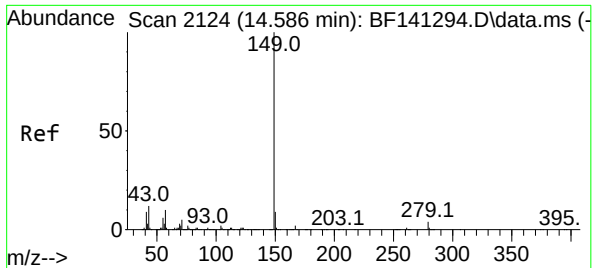
Ion Ratio Lower Upper

149 100

167 26.7 21.8 32.8

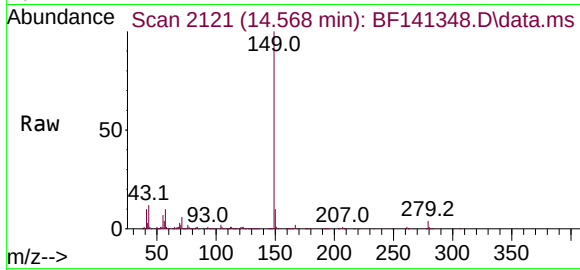
279 3.7 3.3 4.9





#85
Di-n-octyl phthalate
Concen: 42.245 ng
RT: 14.568 min Scan# 2124
Delta R.T. -0.018 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

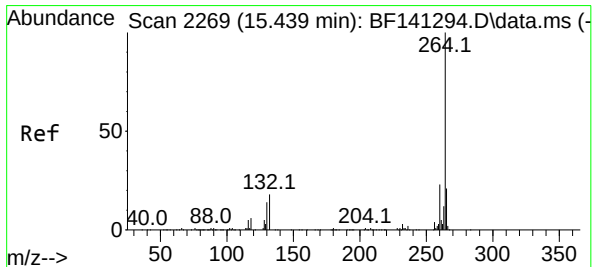
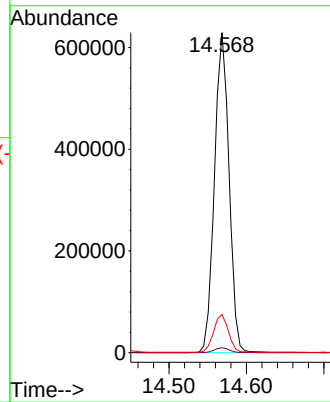
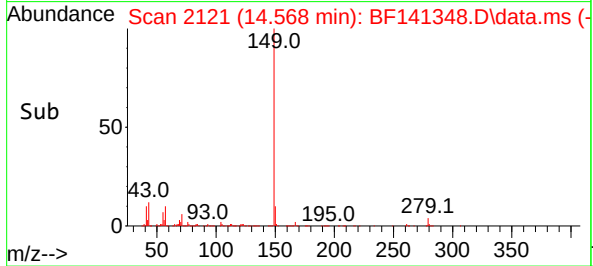
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



Tgt Ion:149 Resp: 82301
Ion Ratio Lower Upper
149 100
167 1.7 1.3 1.9
43 12.0 9.8 14.8

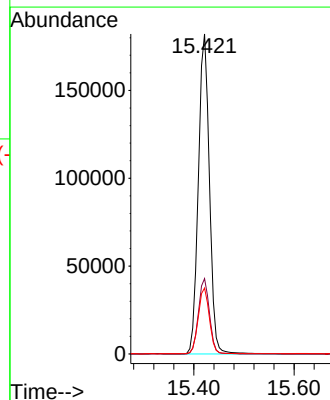
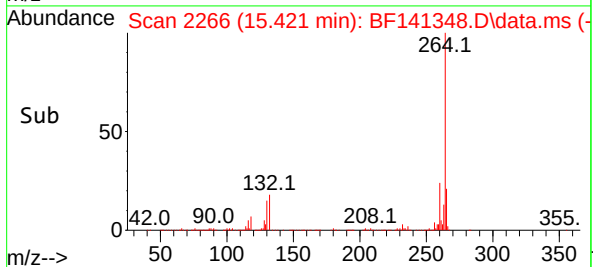
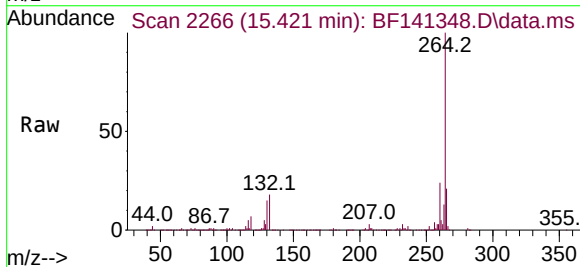
Manual Integrations
APPROVED

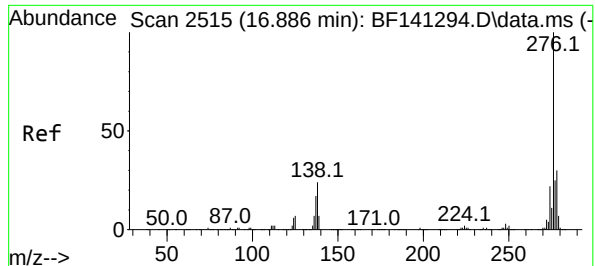
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.421 min Scan# 2266
Delta R.T. -0.018 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

Tgt Ion:264 Resp: 278615
Ion Ratio Lower Upper
264 100
260 23.5 18.6 27.8
265 20.6 16.7 25.1





#87

Indeno(1,2,3-cd)pyrene

Concen: 29.306 ng

RT: 16.862 min Scan# 2194

Delta R.T. -0.035 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

VNJ-236MSD

Tgt Ion:276 Resp: 526992

Ion Ratio Lower Upper

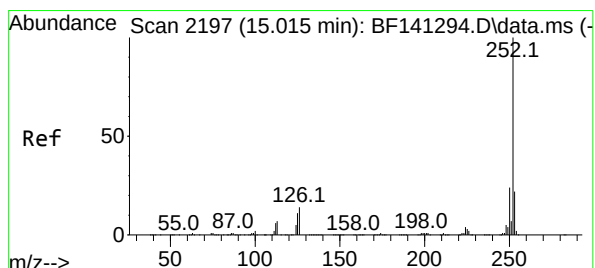
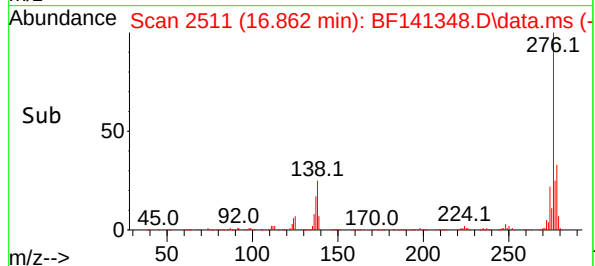
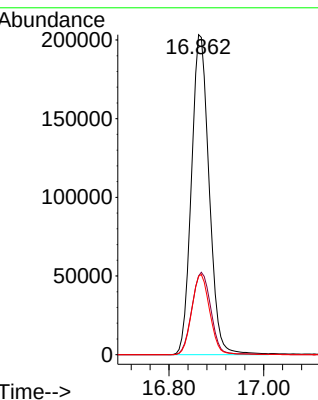
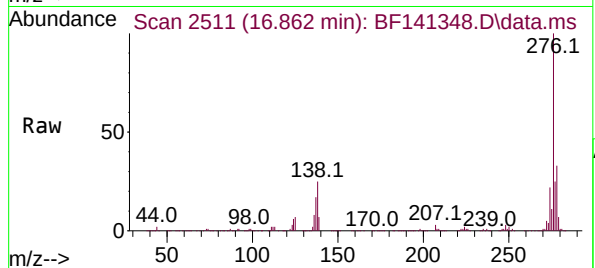
276 100

138 27.8 21.7 32.5

277 25.6 20.3 30.5

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025

#88

Benzo(b)fluoranthene

Concen: 43.982 ng

RT: 14.998 min Scan# 2194

Delta R.T. -0.024 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

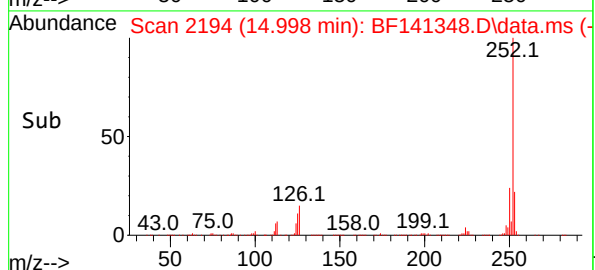
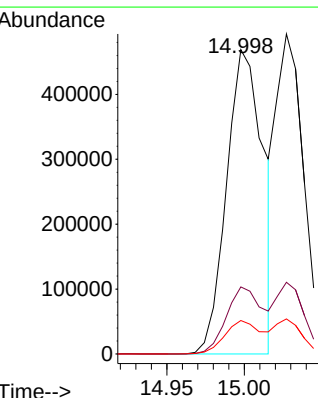
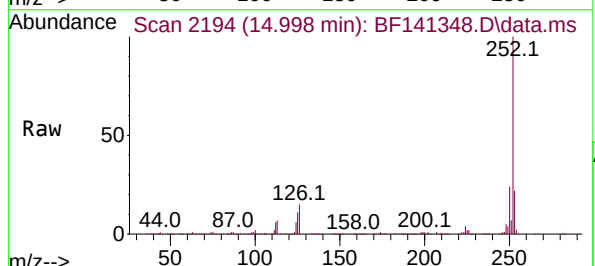
Tgt Ion:252 Resp: 770818

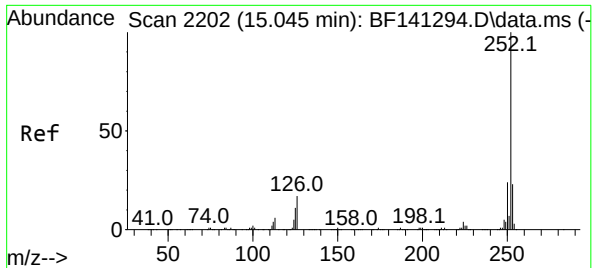
Ion Ratio Lower Upper

252 100

253 22.0 17.4 26.2

125 11.0 8.6 12.8





#89

Benzo(k)fluoranthene

Concen: 39.888 ng

RT: 15.027 min Scan# 2199

Delta R.T. -0.024 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

Instrument :

BNA_F

ClientSampleId :

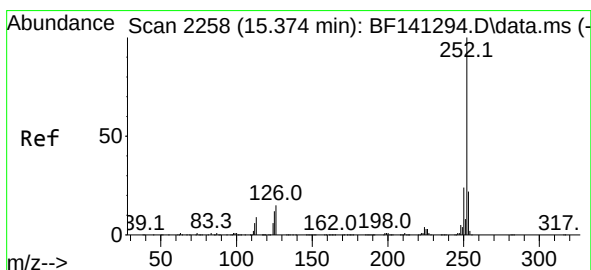
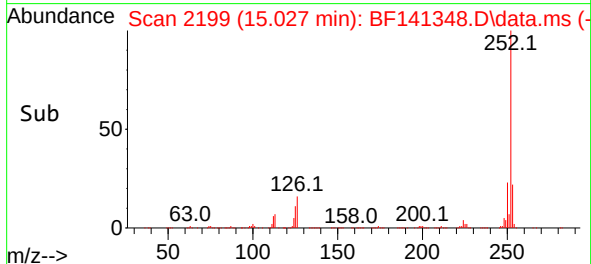
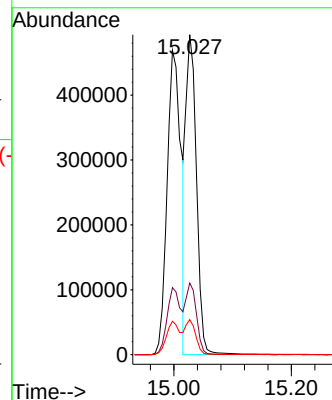
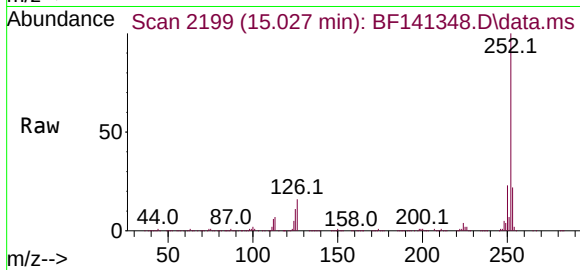
VNJ-236MSD

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.6	26.4
125	11.0	8.4	12.6

Manual Integrations

APPROVED

Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#90

Benzo(a)pyrene

Concen: 41.795 ng

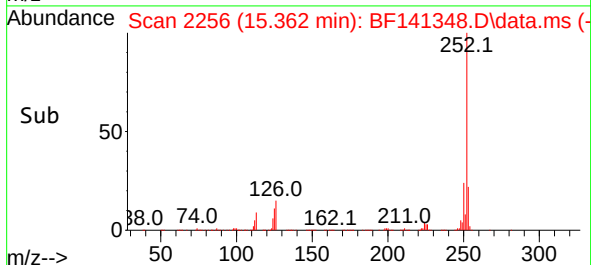
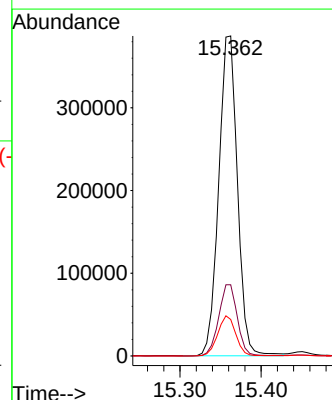
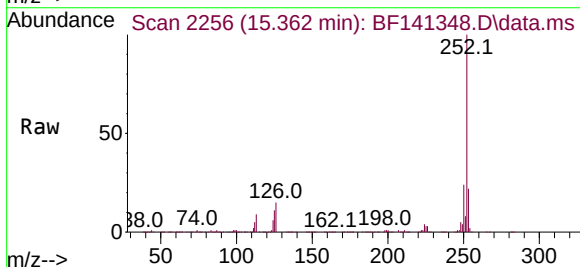
RT: 15.362 min Scan# 2256

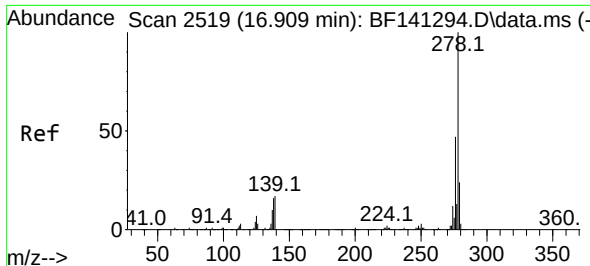
Delta R.T. -0.018 min

Lab File: BF141348.D

Acq: 31 Jan 2025 22:43

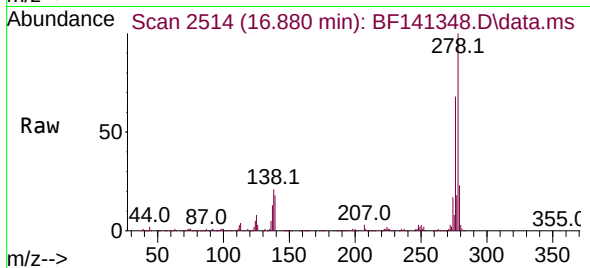
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.3	17.2	25.8
125	11.4	9.4	14.2





#91
Dibenzo(a,h)anthracene
Concen: 30.159 ng
RT: 16.880 min Scan# 2514
Delta R.T. -0.041 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43

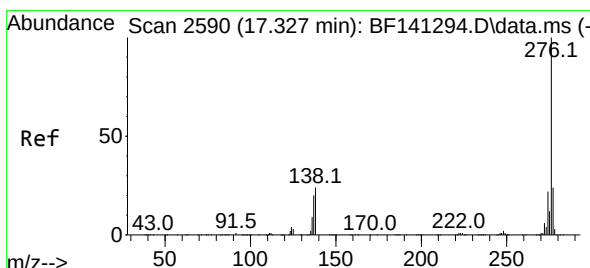
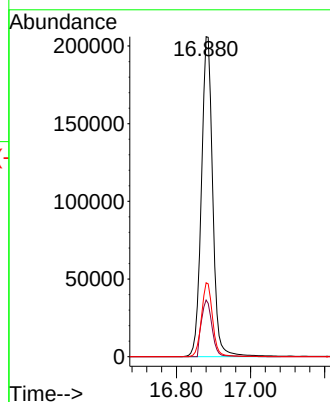
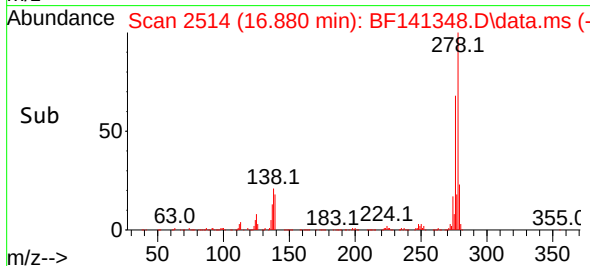
Instrument :
BNA_F
ClientSampleId :
VNJ-236MSD



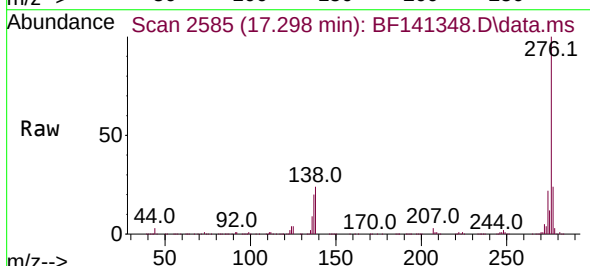
Tgt Ion:278 Resp: 436328
Ion Ratio Lower Upper
278 100
139 17.7 13.9 20.9
279 23.1 18.8 28.2

Manual Integrations
APPROVED

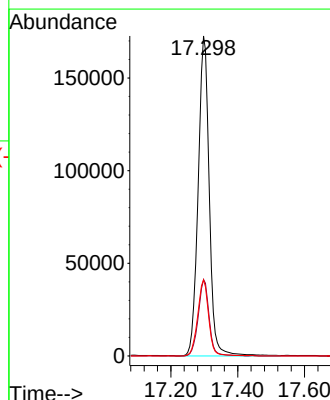
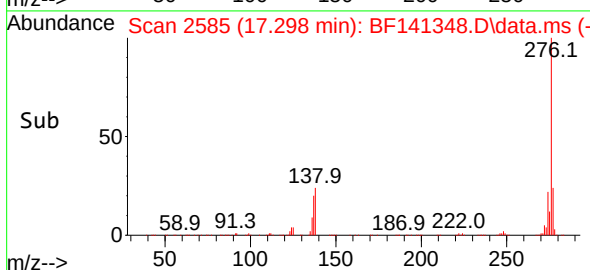
Reviewed By :Jagrut Upadhyay 02/03/2025
Supervised By :mohammad ahmed 02/04/2025



#92
Benzo(g,h,i)perylene
Concen: 26.479 ng
RT: 17.298 min Scan# 2585
Delta R.T. -0.047 min
Lab File: BF141348.D
Acq: 31 Jan 2025 22:43



Tgt Ion:276 Resp: 398331
Ion Ratio Lower Upper
276 100
277 23.9 19.2 28.8
138 23.8 19.0 28.4



Manual Integration Report

Sequence:	BF012925	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDICC010	BF141292.D	2,4-Dimethylphenol	yogesh	1/30/2025 7:49:04 AM	mohammad	2/4/2025 7:21:59 AM	Peak Integrated by Software
SSTDICC020	BF141293.D	2,4-Dimethylphenol	yogesh	1/30/2025 7:49:07 AM	mohammad	2/4/2025 7:21:59 AM	Peak Integrated by Software
SSTDICC050	BF141295.D	2,4-Dimethylphenol	yogesh	1/30/2025 7:49:10 AM	mohammad	2/4/2025 7:21:59 AM	Peak Integrated by Software
SSTDICC060	BF141296.D	2,4-Dimethylphenol	yogesh	1/30/2025 7:49:13 AM	mohammad	2/4/2025 7:21:59 AM	Peak Integrated by Software
SSTDICC060	BF141296.D	Benzoic acid	yogesh	1/30/2025 7:49:13 AM	mohammad	2/4/2025 7:21:59 AM	Peak Integrated by Software
SSTDICV040	BF141298.D	2,4-Dimethylphenol	yogesh	1/30/2025 7:49:17 AM	mohammad	2/4/2025 7:21:59 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BF013125	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF141319.D	2,4-Dimethylphenol	Jagrut	2/3/2025 3:34:12 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
SSTDCCC040	BF141334.D	2,4-Dimethylphenol	Jagrut	2/3/2025 3:34:53 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
SSTDCCC040	BF141334.D	Benzoic acid	Jagrut	2/3/2025 3:34:53 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
Q1205-02MS	BF141347.D	2,4-Dimethylphenol	Jagrut	2/3/2025 3:35:20 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
Q1205-02MS	BF141347.D	Acenaphthene	Jagrut	2/3/2025 3:35:20 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
Q1205-02MS	BF141347.D	Caprolactam	Jagrut	2/3/2025 3:35:20 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
Q1205-02MSD	BF141348.D	2,4-Dimethylphenol	Jagrut	2/3/2025 3:35:23 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software
Q1205-02MSD	BF141348.D	Acenaphthene	Jagrut	2/3/2025 3:35:23 PM	mohammad	2/4/2025 7:22:32 AM	Peak Integrated by Software

Manual Integration Report

Sequence:	BF020525	Instrument	BNA_f

Sample ID	File ID	Parameter	Review By	Review On	Supervised By	Supervised On	Reason
SSTDCCC040	BF141435.D	2,4-Dimethylphenol	yogesh	2/6/2025 7:43:50 AM	mohammad	2/6/2025 8:39:24 AM	Peak Integrated by Software
SSTDCCC040	BF141435.D	n-Nitrosodimethylamine	yogesh	2/6/2025 7:43:50 AM	mohammad	2/6/2025 8:39:24 AM	Peak Integrated by Software
PB166354BS	BF141445.D	2,4-Dimethylphenol	yogesh	2/6/2025 7:44:34 AM	mohammad	2/6/2025 8:39:24 AM	Peak Integrated by Software
PB166354BS	BF141445.D	Acenaphthene	yogesh	2/6/2025 7:44:34 AM	mohammad	2/6/2025 8:39:24 AM	Peak Integrated by Software
PB166354BS	BF141445.D	Caprolactam	yogesh	2/6/2025 7:44:34 AM	mohammad	2/6/2025 8:39:24 AM	Peak Integrated by Software
SSTDCCC040	BF141447.D	2,4-Dimethylphenol	yogesh	2/6/2025 7:44:39 AM	mohammad	2/6/2025 8:39:24 AM	Peak Integrated by Software
SSTDCCC040	BF141447.D	Benzo(b)fluoranthene	yogesh	2/6/2025 7:44:39 AM	mohammad	2/6/2025 8:39:24 AM	Peak Integrated by Software
SSTDCCC040	BF141447.D	n-Nitrosodimethylamine	yogesh	2/6/2025 7:44:39 AM	mohammad	2/6/2025 8:39:24 AM	Peak Integrated by Software

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF012925

Review By	Jagrut	Review On	1/31/2025 4:39:47 PM
Supervise By	mohammad	Supervise On	2/4/2025 7:21:59 AM
SubDirectory	BF012925	HP Acquire Method	BNA_F
		HP Processing Method	bf012925
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673		
CCC	SP6676		
Internal Standard/PEM	S12649,10ul/1000ul sample		
ICV/I.BLK	SP6686		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141289.D	29 Jan 2025 10:03	RC/JU	Ok
2	SSTDICC2.5	BF141290.D	29 Jan 2025 10:30	RC/JU	Ok
3	SSTDICC005	BF141291.D	29 Jan 2025 10:56	RC/JU	Ok
4	SSTDICC010	BF141292.D	29 Jan 2025 11:49	RC/JU	Ok,M
5	SSTDICC020	BF141293.D	29 Jan 2025 15:17	RC/JU	Ok,M
6	SSTDICCC040	BF141294.D	29 Jan 2025 15:45	RC/JU	Ok
7	SSTDICC050	BF141295.D	29 Jan 2025 16:11	RC/JU	Ok,M
8	SSTDICC060	BF141296.D	29 Jan 2025 16:38	RC/JU	Ok,M
9	SSTDICC080	BF141297.D	29 Jan 2025 17:05	RC/JU	Ok
10	SSTDICV040	BF141298.D	29 Jan 2025 17:31	RC/JU	Ok,M
11	PB166167BL	BF141299.D	29 Jan 2025 18:24	RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF013125

Review By	Jagrut	Review On	2/3/2025 3:44:51 PM
Supervise By	mohammad	Supervise On	2/4/2025 7:22:32 AM
SubDirectory	BF013125	HP Acquire Method	BNA_F
		HP Processing Method	bf012925
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673		
CCC	SP6676		
Internal Standard/PEM	S12649,10ul/1000ul sample		
ICV/I.BLK	SP6686		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141318.D	31 Jan 2025 08:30	RC/JU	Ok
2	SSTDCCC040	BF141319.D	31 Jan 2025 09:22	RC/JU	Ok,M
3	PB166258BL	BF141320.D	31 Jan 2025 09:49	RC/JU	Ok
4	Q1168-03	BF141321.D	31 Jan 2025 10:15	RC/JU	Ok,M
5	Q1168-03	BF141322.D	31 Jan 2025 10:42	RC/JU	Ok,M
6	Q1168-09	BF141323.D	31 Jan 2025 11:08	RC/JU	Ok,M
7	Q1168-09	BF141324.D	31 Jan 2025 11:35	RC/JU	Ok,M
8	PB166363BL	BF141325.D	31 Jan 2025 12:01	RC/JU	Ok
9	PB166363BS	BF141326.D	31 Jan 2025 12:28	RC/JU	Ok,M
10	PB166363BSD	BF141327.D	31 Jan 2025 12:54	RC/JU	Ok,M
11	Q1211-01	BF141328.D	31 Jan 2025 13:27	RC/JU	Ok
12	Q1211-02	BF141329.D	31 Jan 2025 13:53	RC/JU	Ok
13	Q1209-04	BF141330.D	31 Jan 2025 14:20	RC/JU	Ok
14	Q1209-08	BF141331.D	31 Jan 2025 14:46	RC/JU	Ok
15	Q1205-02	BF141332.D	31 Jan 2025 15:13	RC/JU	Ok
16	Q1205-01	BF141333.D	31 Jan 2025 15:39	RC/JU	Ok,M
17	SSTDCCC040	BF141334.D	31 Jan 2025 16:26	RC/JU	Ok,M
18	DFTPP	BF141335.D	31 Jan 2025 16:53	RC/JU	Ok
19	SSTDCCC040	BF141336.D	31 Jan 2025 17:19	RC/JU	Ok
20	PB166354BL	BF141337.D	31 Jan 2025 17:46	RC/JU	Ok
21	Q1218-02	BF141338.D	31 Jan 2025 18:18	RC/JU	Ok,M

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF013125

Review By	Jagrut	Review On	2/3/2025 3:44:51 PM
Supervise By	mohammad	Supervise On	2/4/2025 7:22:32 AM
SubDirectory	BF013125	HP Acquire Method	BNA_F
		HP Processing Method	bf012925
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673		
CCC	SP6676		
Internal Standard/PEM	S12649,10ul/1000ul sample		
ICV/I.BLK	SP6686		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1218-02MS	BF141339.D	31 Jan 2025 18:44	RC/JU	Ok,M
23	Q1218-02MSD	BF141340.D	31 Jan 2025 19:11	RC/JU	Ok,M
24	Q1219-02	BF141341.D	31 Jan 2025 19:37	RC/JU	Ok,M
25	Q1221-02	BF141342.D	31 Jan 2025 20:04	RC/JU	Ok
26	Q1221-01	BF141343.D	31 Jan 2025 20:30	RC/JU	Ok
27	Q1239-10	BF141344.D	31 Jan 2025 20:56	RC/JU	Ok
28	Q1239-10MS	BF141345.D	31 Jan 2025 21:23	RC/JU	Ok,M
29	Q1239-10MSD	BF141346.D	31 Jan 2025 21:50	RC/JU	Ok,M
30	Q1205-02MS	BF141347.D	31 Jan 2025 22:16	RC/JU	Ok,M
31	Q1205-02MSD	BF141348.D	31 Jan 2025 22:43	RC/JU	Ok,M
32	Q1194-01	BF141349.D	31 Jan 2025 23:10	RC/JU	Ok
33	Q1194-02	BF141350.D	31 Jan 2025 23:37	RC/JU	Ok
34	Q1194-04	BF141351.D	01 Feb 2025 00:03	RC/JU	Ok
35	Q1194-04MS	BF141352.D	01 Feb 2025 00:30	RC/JU	Ok,M
36	Q1194-04MSD	BF141353.D	01 Feb 2025 00:57	RC/JU	Ok,M
37	Q1239-07	BF141354.D	01 Feb 2025 01:24	RC/JU	Ok,M
38	Q1239-04	BF141355.D	01 Feb 2025 01:51	RC/JU	Ok,M
39	Q1243-01	BF141356.D	01 Feb 2025 02:17	RC/JU	Ok
40	Q1220-01	BF141357.D	01 Feb 2025 02:44	RC/JU	Ok,M
41	Q1244-01	BF141358.D	01 Feb 2025 03:11	RC/JU	Ok,M
42	Q1239-01	BF141359.D	01 Feb 2025 03:37	RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF020525

Review By	yogesh	Review On	2/6/2025 7:45:47 AM
Supervise By	mohammad	Supervise On	2/6/2025 8:39:24 AM
SubDirectory	BF020525	HP Acquire Method	BNA_F
		HP Processing Method	bf012925
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673		
CCC	SP6676		
Internal Standard/PEM	S12650,10ul/1000ul sample		
ICV/I.BLK	SP6686		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

Sr#	SampleId	Data File Name	Date-Time	Operator	Status
1	DFTPP	BF141434.D	05 Feb 2025 09:36	RC/JU	Ok
2	SSTDCCC040	BF141435.D	05 Feb 2025 10:02	RC/JU	Ok,M
3	PB166264BL	BF141436.D	05 Feb 2025 10:28	RC/JU	Ok
4	PB166264BS	BF141437.D	05 Feb 2025 10:55	RC/JU	Ok,M
5	PB166211TB	BF141438.D	05 Feb 2025 11:21	RC/JU	Ok
6	PB166294BS	BF141439.D	05 Feb 2025 11:47	RC/JU	Ok,M
7	PB166418BL	BF141440.D	05 Feb 2025 12:13	RC/JU	Ok
8	PB166418BS	BF141441.D	05 Feb 2025 12:39	RC/JU	Ok,M
9	PB166339BS	BF141442.D	05 Feb 2025 13:05	RC/JU	Ok,M
10	PB166339BSD	BF141443.D	05 Feb 2025 13:31	RC/JU	Ok,M
11	PB166525BS	BF141444.D	05 Feb 2025 13:58	RC/JU	Ok,M
12	PB166354BS	BF141445.D	05 Feb 2025 14:24	RC/JU	Ok,M
13	DFTPP	BF141446.D	05 Feb 2025 14:50	RC/JU	Ok
14	SSTDCCC040	BF141447.D	05 Feb 2025 15:16	RC/JU	Ok,M
15	PB166318TB	BF141448.D	05 Feb 2025 15:43	RC/JU	Ok
16	Q1215-04	BF141449.D	05 Feb 2025 16:16	RC/JU	Ok
17	Q1215-08	BF141450.D	05 Feb 2025 16:42	RC/JU	Ok
18	Q1282-01	BF141451.D	05 Feb 2025 17:08	RC/JU	Ok
19	Q1207-04	BF141452.D	05 Feb 2025 17:35	RC/JU	Ok
20	Q1207-08	BF141453.D	05 Feb 2025 18:01	RC/JU	Ok
21	Q1207-20	BF141454.D	05 Feb 2025 18:27	RC/JU	Ok

Instrument ID: **BNA_F**

Daily Analysis Runlog For Sequence/QC Batch ID # BF020525

Review By	yogesh	Review On	2/6/2025 7:45:47 AM
Supervise By	mohammad	Supervise On	2/6/2025 8:39:24 AM
SubDirectory	BF020525	HP Acquire Method	BNA_F
		HP Processing Method	bf012925
STD. NAME	STD REF.#		
Tune/Reschk	SP6717		
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673		
CCC	SP6676		
Internal Standard/PEM	S12650,10ul/1000ul sample		
ICV/I.BLK	SP6686		
Surrogate Standard			
MS/MSD Standard			
LCS Standard			

22	Q1207-12	BF141455.D	05 Feb 2025 18:54	RC/JU	Ok
23	Q1207-16	BF141456.D	05 Feb 2025 19:20	RC/JU	Ok
24	Q1280-02	BF141457.D	05 Feb 2025 19:46	RC/JU	Ok
25	Q1280-02MS	BF141458.D	05 Feb 2025 20:12	RC/JU	Ok,M
26	Q1280-02MSD	BF141459.D	05 Feb 2025 20:38	RC/JU	Ok,M
27	Q1207-19	BF141460.D	05 Feb 2025 21:05	RC/JU	Ok,M
28	Q1206-03	BF141461.D	05 Feb 2025 21:31	RC/JU	Dilution
29	Q1207-03	BF141462.D	05 Feb 2025 21:57	RC/JU	Ok,M
30	Q1207-11	BF141463.D	05 Feb 2025 22:23	RC/JU	Ok,M
31	Q1207-07	BF141464.D	05 Feb 2025 22:49	RC/JU	Ok,M
32	Q1207-15	BF141465.D	05 Feb 2025 23:15	RC/JU	Ok,M
33	Q1206-07	BF141466.D	05 Feb 2025 23:41	RC/JU	Ok,M
34	Q1284-01	BF141467.D	06 Feb 2025 00:07	RC/JU	Ok
35	Q1286-01	BF141468.D	06 Feb 2025 00:33	RC/JU	Ok
36	Q1288-04	BF141469.D	06 Feb 2025 00:59	RC/JU	Ok,M
37	Q1285-01	BF141470.D	06 Feb 2025 01:26	RC/JU	Dilution

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF012925

Review By	Jagrut	Review On	1/31/2025 4:39:47 PM
Supervise By	mohammad	Supervise On	2/4/2025 7:21:59 AM
SubDirectory	BF012925	HP Acquire Method	BNA_F
		HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12649,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141289.D	29 Jan 2025 10:03		RC/JU	Ok
2	SSTDICC2.5	SSTDICC2.5	BF141290.D	29 Jan 2025 10:30		RC/JU	Ok
3	SSTDICC005	SSTDICC005	BF141291.D	29 Jan 2025 10:56	Compound #54 is removed from 5ppm	RC/JU	Ok
4	SSTDICC010	SSTDICC010	BF141292.D	29 Jan 2025 11:49		RC/JU	Ok,M
5	SSTDICC020	SSTDICC020	BF141293.D	29 Jan 2025 15:17	The Calibration is fail for compound #77	RC/JU	Ok,M
6	SSTDICCC040	SSTDICCC040	BF141294.D	29 Jan 2025 15:45	The Calibration is Good For 8270 DOD Except com#77 and good for 625.1 Method Except com#77	RC/JU	Ok
7	SSTDICC050	SSTDICC050	BF141295.D	29 Jan 2025 16:11		RC/JU	Ok,M
8	SSTDICC060	SSTDICC060	BF141296.D	29 Jan 2025 16:38		RC/JU	Ok,M
9	SSTDICC080	SSTDICC080	BF141297.D	29 Jan 2025 17:05		RC/JU	Ok
10	SSTDICV040	ICVBF012925	BF141298.D	29 Jan 2025 17:31		RC/JU	Ok,M
11	PB166167BL	PB166167BL	BF141299.D	29 Jan 2025 18:24		RC/JU	Ok

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF013125

Review By	Jagrut	Review On	2/3/2025 3:44:51 PM
Supervise By	mohammad	Supervise On	2/4/2025 7:22:32 AM
SubDirectory	BF013125	HP Acquire Method	BNA_F
		HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12649,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141318.D	31 Jan 2025 08:30		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141319.D	31 Jan 2025 09:22		RC/JU	Ok,M
3	PB166258BL	PB166258BL	BF141320.D	31 Jan 2025 09:49		RC/JU	Ok
4	Q1168-03	MDL-SOIL-03-QT1-202	BF141321.D	31 Jan 2025 10:15	MDL-SOIL-4PPM	RC/JU	Ok,M
5	Q1168-03	MDL-SOIL-03-QT1-202	BF141322.D	31 Jan 2025 10:42	MDL-SOIL-8PPM	RC/JU	Ok,M
6	Q1168-09	MDL-WATER-03-QT1-2	BF141323.D	31 Jan 2025 11:08	MDL-WATER-4PPM	RC/JU	Ok,M
7	Q1168-09	MDL-WATER-03-QT1-2	BF141324.D	31 Jan 2025 11:35	MDL-WATER-03-8PPM	RC/JU	Ok,M
8	PB166363BL	PB166363BL	BF141325.D	31 Jan 2025 12:01		RC/JU	Ok
9	PB166363BS	PB166363BS	BF141326.D	31 Jan 2025 12:28		RC/JU	Ok,M
10	PB166363BSD	PB166363BSD	BF141327.D	31 Jan 2025 12:54		RC/JU	Ok,M
11	Q1211-01	TAPHHA-MW01-01282	BF141328.D	31 Jan 2025 13:27		RC/JU	Ok
12	Q1211-02	TAPIAL2-MW03-01282	BF141329.D	31 Jan 2025 13:53		RC/JU	Ok
13	Q1209-04	WC-4	BF141330.D	31 Jan 2025 14:20		RC/JU	Ok
14	Q1209-08	WC-5	BF141331.D	31 Jan 2025 14:46		RC/JU	Ok
15	Q1205-02	VNJ-236	BF141332.D	31 Jan 2025 15:13		RC/JU	Ok
16	Q1205-01	VNJ-236	BF141333.D	31 Jan 2025 15:39		RC/JU	Ok,M
17	SSTDCCC040	SSTDCCC040EC	BF141334.D	31 Jan 2025 16:26		RC/JU	Ok,M
18	DFTPP	DFTPP	BF141335.D	31 Jan 2025 16:53		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF013125

Review By	Jagrut	Review On	2/3/2025 3:44:51 PM		
Supervise By	mohammad	Supervise On	2/4/2025 7:22:32 AM		
SubDirectory	BF013125	HP Acquire Method	BNA_F	HP Processing Method	bf012925
STD. NAME		STD REF.#			
Tune/Reschk		SP6717			
Initial Calibration Stds		SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673			
CCC		SP6676			
Internal Standard/PEM		S12649,10ul/1000ul sample			
ICV/I.BLK		SP6686			
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	SSTDCCC040	SSTDCCC040	BF141336.D	31 Jan 2025 17:19		RC/JU	Ok
20	PB166354BL	PB166354BL	BF141337.D	31 Jan 2025 17:46		RC/JU	Ok
21	Q1218-02	BELL-25-002	BF141338.D	31 Jan 2025 18:18		RC/JU	Ok,M
22	Q1218-02MS	BELL-25-002MS	BF141339.D	31 Jan 2025 18:44		RC/JU	Ok,M
23	Q1218-02MSD	BELL-25-002MSD	BF141340.D	31 Jan 2025 19:11		RC/JU	Ok,M
24	Q1219-02	LAW-25-0015	BF141341.D	31 Jan 2025 19:37		RC/JU	Ok,M
25	Q1221-02	CHESTNUT-CONCRE	BF141342.D	31 Jan 2025 20:04		RC/JU	Ok
26	Q1221-01	CHESTNUT-CONCRE	BF141343.D	31 Jan 2025 20:30		RC/JU	Ok
27	Q1239-10	357	BF141344.D	31 Jan 2025 20:56		RC/JU	Ok
28	Q1239-10MS	357MS	BF141345.D	31 Jan 2025 21:23		RC/JU	Ok,M
29	Q1239-10MSD	357MSD	BF141346.D	31 Jan 2025 21:50		RC/JU	Ok,M
30	Q1205-02MS	VNJ-236MS	BF141347.D	31 Jan 2025 22:16		RC/JU	Ok,M
31	Q1205-02MSD	VNJ-236MSD	BF141348.D	31 Jan 2025 22:43		RC/JU	Ok,M
32	Q1194-01	B-110-SB01	BF141349.D	31 Jan 2025 23:10		RC/JU	Ok
33	Q1194-02	B-110-SB02	BF141350.D	31 Jan 2025 23:37		RC/JU	Ok
34	Q1194-04	B-113-SB02	BF141351.D	01 Feb 2025 00:03		RC/JU	Ok
35	Q1194-04MS	B-113-SB02MS	BF141352.D	01 Feb 2025 00:30		RC/JU	Ok,M
36	Q1194-04MSD	B-113-SB02MSD	BF141353.D	01 Feb 2025 00:57		RC/JU	Ok,M
37	Q1239-07	RBR22266	BF141354.D	01 Feb 2025 01:24		RC/JU	Ok,M

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF013125

Review By	Jagrut	Review On	2/3/2025 3:44:51 PM		
Supervise By	mohammad	Supervise On	2/4/2025 7:22:32 AM		
SubDirectory	BF013125	HP Acquire Method	BNA_F	HP Processing Method	bf012925
STD. NAME	STD REF.#				
Tune/Reschk	SP6717				
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673				
CCC	SP6676				
Internal Standard/PEM	S12649,10ul/1000ul sample				
ICV/I.BLK	SP6686				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

38	Q1239-04	348	BF141355.D	01 Feb 2025 01:51		RC/JU	Ok,M
39	Q1243-01	CL-01-01302025	BF141356.D	01 Feb 2025 02:17		RC/JU	Ok
40	Q1220-01	TR-06-01292025	BF141357.D	01 Feb 2025 02:44		RC/JU	Ok,M
41	Q1244-01	EO-02-01302025	BF141358.D	01 Feb 2025 03:11	Internal Standard Fail	RC/JU	Ok,M
42	Q1239-01	286	BF141359.D	01 Feb 2025 03:37		RC/JU	Ok,M

M : Manual Integration

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF020525

Review By	yogesh	Review On	2/6/2025 7:45:47 AM
Supervise By	mohammad	Supervise On	2/6/2025 8:39:24 AM
SubDirectory	BF020525	HP Acquire Method	BNA_F
		HP Processing Method	bf012925

STD. NAME	STD REF.#
Tune/Reschk	SP6717
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673
CCC	SP6676
Internal Standard/PEM	S12650,10ul/1000ul sample
ICV/I.BLK	SP6686
Surrogate Standard	
MS/MSD Standard	
LCS Standard	

Sr#	SampleID	ClientID	Data File Name	Date-Time	Comment	Operator	Status
1	DFTPP	DFTPP	BF141434.D	05 Feb 2025 09:36		RC/JU	Ok
2	SSTDCCC040	SSTDCCC040	BF141435.D	05 Feb 2025 10:02		RC/JU	Ok,M
3	PB166264BL	PB166264BL	BF141436.D	05 Feb 2025 10:28		RC/JU	Ok
4	PB166264BS	PB166264BS	BF141437.D	05 Feb 2025 10:55		RC/JU	Ok,M
5	PB166211TB	PB166211TB	BF141438.D	05 Feb 2025 11:21		RC/JU	Ok
6	PB166294BS	PB166294BS	BF141439.D	05 Feb 2025 11:47		RC/JU	Ok,M
7	PB166418BL	PB166418BL	BF141440.D	05 Feb 2025 12:13		RC/JU	Ok
8	PB166418BS	PB166418BS	BF141441.D	05 Feb 2025 12:39		RC/JU	Ok,M
9	PB166339BS	PB166339BS	BF141442.D	05 Feb 2025 13:05		RC/JU	Ok,M
10	PB166339BSD	PB166339BSD	BF141443.D	05 Feb 2025 13:31		RC/JU	Ok,M
11	PB166525BS	PB166525BS	BF141444.D	05 Feb 2025 13:58		RC/JU	Ok,M
12	PB166354BS	PB166354BS	BF141445.D	05 Feb 2025 14:24		RC/JU	Ok,M
13	DFTPP	DFTPP	BF141446.D	05 Feb 2025 14:50		RC/JU	Ok
14	SSTDCCC040	SSTDCCC040	BF141447.D	05 Feb 2025 15:16		RC/JU	Ok,M
15	PB166318TB	PB166318TB	BF141448.D	05 Feb 2025 15:43		RC/JU	Ok
16	Q1215-04	JPP-29.1-012825	BF141449.D	05 Feb 2025 16:16		RC/JU	Ok
17	Q1215-08	JPP-29.2-012825	BF141450.D	05 Feb 2025 16:42		RC/JU	Ok
18	Q1282-01	SW-WTS-02	BF141451.D	05 Feb 2025 17:08		RC/JU	Ok

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF020525

Review By	yogesh	Review On	2/6/2025 7:45:47 AM		
Supervise By	mohammad	Supervise On	2/6/2025 8:39:24 AM		
SubDirectory	BF020525	HP Acquire Method	BNA_F	HP Processing Method	bf012925
STD. NAME	STD REF.#				
Tune/Reschk	SP6717				
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673				
CCC	SP6676				
Internal Standard/PEM	S12650,10ul/1000ul sample				
ICV/I.BLK	SP6686				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

19	Q1207-04	JPP-2.1-012725	BF141452.D	05 Feb 2025 17:35		RC/JU	Ok
20	Q1207-08	JPP-5.1-012725	BF141453.D	05 Feb 2025 18:01		RC/JU	Ok
21	Q1207-20	JPP-20.2-012725	BF141454.D	05 Feb 2025 18:27		RC/JU	Ok
22	Q1207-12	JPP-4.5-012725	BF141455.D	05 Feb 2025 18:54		RC/JU	Ok
23	Q1207-16	JPP-16.2-012725	BF141456.D	05 Feb 2025 19:20		RC/JU	Ok
24	Q1280-02	72-11984	BF141457.D	05 Feb 2025 19:46		RC/JU	Ok
25	Q1280-02MS	72-11984MS	BF141458.D	05 Feb 2025 20:12		RC/JU	Ok,M
26	Q1280-02MSD	72-11984MSD	BF141459.D	05 Feb 2025 20:38		RC/JU	Ok,M
27	Q1207-19	JPP-20.2-012725	BF141460.D	05 Feb 2025 21:05		RC/JU	Ok,M
28	Q1206-03	JPP-20.1-012725	BF141461.D	05 Feb 2025 21:31	Need 2X Dilution	RC/JU	Dilution
29	Q1207-03	JPP-2.1-012725	BF141462.D	05 Feb 2025 21:57		RC/JU	Ok,M
30	Q1207-11	JPP-4.5-012725	BF141463.D	05 Feb 2025 22:23		RC/JU	Ok,M
31	Q1207-07	JPP-5.1-012725	BF141464.D	05 Feb 2025 22:49		RC/JU	Ok,M
32	Q1207-15	JPP-16.2-012725	BF141465.D	05 Feb 2025 23:15		RC/JU	Ok,M
33	Q1206-07	JPP-16.3-012725	BF141466.D	05 Feb 2025 23:41		RC/JU	Ok,M
34	Q1284-01	SU-03-2-4-2025	BF141467.D	06 Feb 2025 00:07		RC/JU	Ok
35	Q1286-01	NB-07-020425	BF141468.D	06 Feb 2025 00:33	Internal Standard Fail	RC/JU	Ok
36	Q1288-04	HR-04-020425	BF141469.D	06 Feb 2025 00:59		RC/JU	Ok,M
37	Q1285-01	72-11977	BF141470.D	06 Feb 2025 01:26	Need Further 10X Dilution.	RC/JU	Dilution

Instrument ID: BNA_F

Daily Analysis Runlog For Sequence/QC Batch ID # BF020525

Review By	yogesh	Review On	2/6/2025 7:45:47 AM		
Supervise By	mohammad	Supervise On	2/6/2025 8:39:24 AM		
SubDirectory	BF020525	HP Acquire Method	BNA_F	HP Processing Method	bf012925
STD. NAME	STD REF.#				
Tune/Reschk	SP6717				
Initial Calibration Stds	SP6680,SP6679,SP6678,SP6677,SP6676,SP6675,SP6674,SP6673				
CCC	SP6676				
Internal Standard/PEM	S12650,10ul/1000ul sample				
ICV/I.BLK	SP6686				
Surrogate Standard					
MS/MSD Standard					
LCS Standard					

M : Manual Integration

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SOP ID :	M1311-TCLP-15	Start Prep Date :	01/28/2025	Time :	16:30
SDG No :	N/A	End Prep Date :	01/29/2025	Time :	09:20
Weigh By :	JP	Combination Ratio :	20		
Balance ID :	WC SC-7	ZHE Cleaning Batch :	N/A		
pH Meter ID :	WC PH METER-1	Initial Room Temperature:	24 °C		
Extraction By :	JP	Final Room Temperature:	22 °C		
Filter By :	JP	TCLP Technician Signature :	[Signature]		
Pipette ID :	WC	Supervisor By :	[Signature]		
Tumbler ID :	T-1				
TCLP Filter ID :	114771				

Standardized Name	MLS USED	STD REF. # FROM LOG
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE U	Lot Number
TCLP-FLUID-1	N/A	WP110801
HCL-TCLP,1N	N/A	WP110803
HNO3-TCLP,1N	N/A	WP110804
pH Strips	N/A	W1931,W1934,W3171,W3172
pH Strips	W1941,W1942	W3166,W1938,W1939,W1940,
1 Liter Amber	N/A	90424-08
120ml Plastic bottle	N/A	405130101
1:1 HNO3	N/A	MP84041

Extraction Conformance/Non-Conformance Comments:

Matrix spikes are added after filtration and before preservation. TUMBLER T-1 checked,30 rpm. q1209-05 is used for MS-MSD. Particle size reduction is not required.

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/29/25 11:00	[Signature] / TCLP Room	[Signature] / [Location]
	Preparation Group	Analysis Group

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
PB166318TB	LEB318	11	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-1
Q1205-02	VNJ-236	01	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-1
Q1206-04	JPP-20.1-012725	02	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1206-08	JPP-16.3-012725	03	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
Q1207-04	JPP-2.1-012725	04	100.03	2000	N/A	N/A	N/A	7.0	1.0	T-1
Q1207-08	JPP-5.1-012725	05	100.04	2000	N/A	N/A	N/A	7.6	1.5	T-1
Q1207-12	JPP-4.5-012725	06	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
Q1207-16	JPP-16.2-012725	07	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q1207-20	JPP-20.2-012725	08	100.02	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1209-04	WC-4	09	100.01	2000	N/A	N/A	N/A	3.5	1.0	T-1
Q1209-08	WC-5	10	100.02	2000	N/A	N/A	N/A	4.0	1.5	T-1

SampleID	ClientID	Sample Weight (g)	Filter Weight (g)	Filtrate (mL)	Filter + Solid (After 100°C)	% solids	% Dry Solids
PB166318TB	LEB318	N/A	N/A	N/A	N/A	N/A	N/A
Q1205-02	VNJ-236	N/A	N/A	N/A	N/A	100	N/A
Q1206-04	JPP-20.1-012725	N/A	N/A	N/A	N/A	100	N/A
Q1206-08	JPP-16.3-012725	N/A	N/A	N/A	N/A	100	N/A
Q1207-04	JPP-2.1-012725	N/A	N/A	N/A	N/A	100	N/A
Q1207-08	JPP-5.1-012725	N/A	N/A	N/A	N/A	100	N/A
Q1207-12	JPP-4.5-012725	N/A	N/A	N/A	N/A	100	N/A
Q1207-16	JPP-16.2-012725	N/A	N/A	N/A	N/A	100	N/A
Q1207-20	JPP-20.2-012725	N/A	N/A	N/A	N/A	100	N/A
Q1209-04	WC-4	N/A	N/A	N/A	N/A	100	N/A
Q1209-08	WC-5	N/A	N/A	N/A	N/A	100	N/A

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
PB166318TB	LEB318	N/A	N/A	N/A	N/A	#1	4.94
Q1205-02	VNJ-236	5.02	96.5	6.0	2.0	#1	4.94
Q1206-04	JPP-20.1-012725	5.03	96.5	8.6	3.0	#1	4.94
Q1206-08	JPP-16.3-012725	5.02	96.5	9.1	3.5	#1	4.94
Q1207-04	JPP-2.1-012725	5.01	96.5	9.0	4.0	#1	4.94
Q1207-08	JPP-5.1-012725	5.02	96.5	11.0	4.5	#1	4.94
Q1207-12	JPP-4.5-012725	5.03	96.5	11.5	4.5	#1	4.94
Q1207-16	JPP-16.2-012725	5.02	96.5	10.5	4.0	#1	4.94
Q1207-20	JPP-20.2-012725	5.01	96.5	9.1	3.5	#1	4.94
Q1209-04	WC-4	5.02	96.5	6.4	2.5	#1	4.94
Q1209-08	WC-5	5.03	96.5	6.6	2.0	#1	4.94

WORKLIST(Hardcopy Internal Chain)

WorkList Name : tcip q1109

WorkList ID : 187224

Department : TCLP Extraction

Date : 01-28-2025 14:21:42

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q1205-02	VNJ-236	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N31	01/28/2025	1311
Q1206-04	JPP-20.1-012725	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/27/2025	1311
Q1206-08	JPP-16.3-012725	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/27/2025	1311
Q1207-04	JPP-2.1-012725	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/27/2025	1311
Q1207-08	JPP-5.1-012725	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/27/2025	1311
Q1207-12	JPP-4.5-012725	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/27/2025	1311
Q1207-16	JPP-16.2-012725	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/27/2025	1311
Q1207-20	JPP-20.2-012725	Solid	TCLP Extraction	Cool 4 deg C	RUTW01	E11	01/27/2025	1311
Q1209-04	WC-4	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N41	01/28/2025	1311
Q1209-08	WC-5	Solid	TCLP Extraction	Cool 4 deg C	PSEG03	N41	01/28/2025	1311

Date/Time 01/28/25 14:30

Raw Sample Received by: SB Goo/C/

Raw Sample Relinquished by: [Signature]

Date/Time 01/28/25 17:00

Raw Sample Received by: [Signature]

Raw Sample Relinquished by: [Signature]

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A **Extraction Start Date :** 01/29/2025

Matrix : Water **Extraction Start Time :** 12:35

Wegh By: N/A **Extraction By:** RS **Extraction End Date :** 01/29/2025

Balance check: EH **Filter By:** RS **Extraction End Time :** 17:30

Balance ID: EX-SC-2 **pH Meter ID:** N/A **Concentration By:** EH

pH Strip Lot#: N/A **Hood ID:** 3,7 **Supervisor By :** rajesh

Extraction Method: ☒ Separatory Funnel ☐ Continious Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ Soxhlet

Standard Name	MLS USED	Concentration ug/mL	STD REF. # FROM LOG
Spike Sol 1	1.0ML	50/100 PPM	SP6720
Surrogate	1.0ML	100/150 PPM	SP6638
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A
N/A	N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
MeCl2/Acetone/1:1	N/A	EP2578
Baked Na2SO4	N/A	EP2580
Methylene Chloride	N/A	E3871
10N NaoH	N/A	E2559
H2SO4 1:1	N/A	EP2565
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot # 2210673.pH Adjusted <2 with 1:1 H2SO4& >11 with 10 N NaOH.

KD Bath ID: WATER BATH-1,2 **Envap ID:** NEVAP-02

KD Bath Temperature: 60 °C **Envap Temperature:** 40 °C

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01/29/25	RP (Ext Lab)	AC/SVOC
17:35	Preparation Group	Analysis Group

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 01/29/2025

Sample ID	Client Sample ID	Test	g / mL	PH	Surr/Spike By:		Final Vol. (mL)	JarID	Comments	Prep Pos
					AddedBy	VerifiedBy				
PB166318TB	PB166318TB	TCLP BNA	100	6	RUPESH	rajesh	1			SEP-01
PB166354BL	PB166354BL	TCLP BNA	1000	6	RUPESH	rajesh	1			2
PB166354BS	PB166354BS	TCLP BNA	1000	6	RUPESH	rajesh	1			3
Q1205-02	VNJ-236	TCLP BNA	100	6	RUPESH	rajesh	1	A		4
Q1205-02MS	VNJ-236MS	TCLP BNA	100	6	RUPESH	rajesh	1	A		5
Q1205-02MS D	VNJ-236MSD	TCLP BNA	100	6	RUPESH	rajesh	1	A		6
Q1206-04	JPP-20.1-012725	TCLP BNA	100	6	RUPESH	rajesh	1	A		7
Q1206-08	JPP-16.3-012725	TCLP BNA	100	6	RUPESH	rajesh	1	A		8
Q1207-04	JPP-2.1-012725	TCLP BNA	100	6	RUPESH	rajesh	1	A		9
Q1207-08	JPP-5.1-012725	TCLP BNA	100	6	RUPESH	rajesh	1	A		10
Q1207-12	JPP-4.5-012725	TCLP BNA	100	6	RUPESH	rajesh	1	A		11
Q1207-16	JPP-16.2-012725	TCLP BNA	100	6	RUPESH	rajesh	1	A		12
Q1207-20	JPP-20.2-012725	TCLP BNA	100	6	RUPESH	rajesh	1	A		13
Q1209-04	WC-4	TCLP BNA	100	6	RUPESH	rajesh	1	A		14
Q1209-08	WC-5	TCLP BNA	100	6	RUPESH	rajesh	1	A		15

* Extracts relinquished on the same date as received.

1/29/25

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	Prej Pos
PB166318TB	LEB318	11	N/A	2000	N/A	N/A	N/A	4.94	1.0	T-1
Q1205-02	VNJ-236	01	100.03	2000	N/A	N/A	N/A	4.0	1.5	T-1
Q1206-04	JPP-20.1-012725	02	100.02	2000	N/A	N/A	N/A	6.2	1.0	T-1
Q1206-08	JPP-16.3-012725	03	100.02	2000	N/A	N/A	N/A	7.2	1.5	T-1
Q1207-04	JPP-2.1-012725	04	100.03	2000	N/A	N/A	N/A	7.0	1.0	T-1
Q1207-08	JPP-5.1-012725	05	100.04	2000	N/A	N/A	N/A	7.6	1.5	T-1
Q1207-12	JPP-4.5-012725	06	100.03	2000	N/A	N/A	N/A	7.2	1.5	T-1
Q1207-16	JPP-16.2-012725	07	100.02	2000	N/A	N/A	N/A	7.6	1.0	T-1
Q1207-20	JPP-20.2-012725	08	100.02	2000	N/A	N/A	N/A	7.0	1.5	T-1
Q1209-04	WC-4	09	100.01	2000	N/A	N/A	N/A	3.5	1.0	T-1
Q1209-08	WC-5	10	100.02	2000	N/A	N/A	N/A	4.0	1.5	T-1

11:00
01/29/25

Prep Standard - Chemical Standard Summary

Order ID : Q1207

Test : TCLP BNA

Prepbatch ID : PB166354,

Sequence ID/Qc Batch ID: BF013125,BF020425,BF020525,BM020525,

Standard ID :

EP2565,EP2578,EP2580,SP6638,SP6672,SP6673,SP6674,SP6675,SP6676,SP6677,SP6678,SP6679,SP6680,SP6685,SP6686,SP6717,SP6720,SP6721,SP6722,SP6723,SP6724,SP6725,SP6726,SP6727,SP6728,SP6729,

Chemical ID :

10ul/1000ul

sample,E2559,E3551,E3815,E3828,E3846,E3848,E3871,E3874,M5173,S10103,S10104,S10246,S10397,S10584,S10978,S10979,S10980,S11004,S11005,S11006,S11007,S11008,S11009,S11010,S11074,S11085,S11086,S11087,S11093,S11099,S11103,S11143,S11160,S11161,S11487,S11494,S11495,S11650,S11781,S11782,S11783,S11784,S11785,S12079,S12113,S12114,S12142,S12143,S12144,S12145,S12146,S12187,S12188,S12189,S12207,S12208,S12270,S12275,S12276,S12327,S12469,S12470,S12471,S12472,S12473,S12474,S12475,S12476,S12477,S12478,S12517,S12518,S12519,S12520,S12521,S12522,S12523,S12524,S12525,S12649,S12650,S12790,S12791,S12963,S12964,S12965,S12966,W3112,

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
314	1.1 H2SO4 SOLN	EP2565	11/20/2024	05/20/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 11/20/2024

FROM 1000.00000ml of M5173 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2017	1:1 ACETONE/METHYLENE CHLORIDE	EP2578	01/06/2025	06/18/2025	Rajesh Parikh	None	None	RUPESHKUMAR SHAH 01/06/2025

FROM 8000.00000ml of E3846 + 8000.00000ml of E3848 = Final Quantity: 16000.000 ml

Extractions STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3923	Baked Sodium Sulfate	EP2580	01/17/2025	07/01/2025	Rajesh Parikh	Extraction_SC ALE_2 (EX-SC-2)	None	RUPESHKUMAR SHAH 01/17/2025

FROM 4000.00000gram of E3551 = Final Quantity: 4000.000 gram

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
19	8270/CLP Surrogate Solution, 100 PPM BN/150 PPM ACID	SP6638	10/10/2024	04/04/2025	Jagrut Upadhyay	None	None	mohammad ahmed 10/18/2024

FROM 1930.00000ml of E3815 + 5.00000ml of S10978 + 5.00000ml of S10979 + 5.00000ml of S10980 + 5.00000ml of S11004 + 5.00000ml of S11005 + 5.00000ml of S11006 + 5.00000ml of S11007 + 5.00000ml of S11008 + 5.00000ml of S11009 + 5.00000ml of S11010 + 5.00000ml of S12187 + 5.00000ml of S12188 + 5.00000ml of S12189 + 5.00000ml of S12207 = Final Quantity: 2000.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3764	8270/625 Stock solution 100 ng	SP6672	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
FROM 0.05000ml of S12114 + 0.20000ml of S11093 + 0.20000ml of S11494 + 0.20000ml of S11495 + 0.20000ml of S12276 + 0.26700ml of S10103 + 0.40000ml of S11103 + 0.40000ml of S12275 + 0.45000ml of S12113 + 0.50000ml of S11085 + 0.50000ml of S11086 + 0.50000ml of S12079 + 0.50000ml of S12790 + 0.80000ml of S11160 + 1.00000ml of S11099 + 3.83300ml of E3828 = Final Quantity: 10.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
413	80 ng BNA ICC, 80 PPM	SP6673	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
FROM 0.01000ml of S12327 + 0.20000ml of E3828 + 0.80000ml of SP6672 = Final Quantity: 1.010 ml								

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
412	60 ng BNA ICC, 60 PPM	SP6674	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								12/27/2024

FROM 0.01000ml of S12327 + 0.40000ml of E3828 + 0.60000ml of SP6672 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
411	50 ng BNA ICC, 50 PPM	SP6675	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								12/27/2024

FROM 0.01000ml of S12327 + 0.50000ml of E3828 + 0.50000ml of SP6672 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
410	40 ng BNA ICC, 40 PPM	SP6676	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								12/27/2024

FROM 0.01000ml of S12327 + 0.60000ml of E3828 + 0.40000ml of SP6672 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3678	20 ng BNA ICC, 20 PPM	SP6677	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								12/27/2024

FROM 0.01000ml of S12327 + 0.80000ml of E3828 + 0.20000ml of SP6672 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
408	10 ng BNA ICC, 10 PPM	SP6678	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								12/27/2024

FROM 0.01000ml of S12327 + 0.90000ml of E3828 + 0.10000ml of SP6672 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
407	5 ng BNA ICC, 5 PPM	SP6679	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								12/27/2024

FROM 0.01000ml of S12327 + 0.95000ml of E3828 + 0.05000ml of SP6672 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
175	2.5 ng BNA ICC, 2.5 PPM	SP6680	11/12/2024	02/08/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								12/27/2024

FROM 0.01000ml of S12327 + 0.50000ml of E3828 + 0.50000ml of SP6679 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
18	Second Source Calibration Stock Standard, 100 PPM,	SP6685	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
	(8270/625/CLP)							12/27/2024

FROM 0.04000ml of S12189 + 0.08000ml of S12208 + 0.10000ml of S11074 + 0.20000ml of S12142 + 0.20000ml of S12469 +
0.20000ml of S12517 + 1.18000ml of E3828 = Final Quantity: 2.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
416	40 ng BNA ICV, 40 PPM	SP6686	11/15/2024	04/10/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								12/27/2024

FROM 0.01000ml of S12327 + 0.60000ml of E3828 + 0.40000ml of SP6685 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3895	50 ug/ml DFTPP 8270E	SP6717	01/15/2025	03/31/2025	Rahul Chavli	None	None	Yogesh Patel
								01/16/2025

FROM 1.00000ml of S10246 + 19.00000ml of E3871 = Final Quantity: 20.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
171	8270/625 Spike Solution, 50/100 PPM	SP6720	01/29/2025	04/30/2025	Jagrut Upadhyay	None	None	Yogesh Patel
								02/06/2025

FROM 0.40000ml of S10397 + 0.40000ml of S10584 + 0.40000ml of S11143 + 0.40000ml of S11487 + 0.40000ml of S11650 + 0.40000ml of S12478 + 0.50000ml of S11781 + 0.50000ml of S12470 + 0.60000ml of S11785 + 0.90000ml of S12518 + 0.90000ml of S12966 + 1.30000ml of S11782 + 1.30000ml of S11783 + 1.30000ml of S11784 + 1.30000ml of S12143 + 1.30000ml of S12144 + 1.30000ml of S12145 + 1.30000ml of S12146 + 1.30000ml of S12471 + 1.30000ml of S12472 + 1.30000ml of S12473 + 1.30000ml of S12474 + 1.30000ml of S12475 + 1.30000ml of S12476 + 1.30000ml of S12477 + 1.30000ml of S12519 + 1.30000ml of S12520 + 1.30000ml of S12521 + 1.30000ml of S12522 + 1.30000ml of S12523 + 1.30000ml of S12524 + 1.30000ml of S12525 + 1.30000ml of S12963 + 1.30000ml of S12964 + 1.30000ml of S12965 + 163.00000ml of E3846 = Final Quantity: 200.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3764	8270/625 Stock solution 100 ng	SP6721	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.26700ml of S10104 + 0.40000ml of S11495 + 0.50000ml of S12114 + 1.00000ml of S11087 + 1.00000ml of S11161 + 1.00000ml of S12270 + 1.00000ml of S12276 + 1.00000ml of S12791 + 3.83300ml of E3874 = Final Quantity: 10.000 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
413	80 ng BNA ICC, 80 PPM	SP6722	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.20000ml of E3874 + 0.80000ml of SP6721 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
412	60 ng BNA ICC, 60 PPM	SP6723	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.40000ml of E3874 + 0.60000ml of SP6721 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
411	50 ng BNA ICC, 50 PPM	SP6724	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6721 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
410	40 ng BNA ICC, 40 PPM	SP6725	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.60000ml of E3874 + 0.40000ml of SP6721 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3678	20 ng BNA ICC, 20 PPM	SP6726	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.80000ml of E3874 + 0.20000ml of SP6721 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
408	10 ng BNA ICC, 10 PPM	SP6727	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.90000ml of E3874 + 0.10000ml of SP6721 = Final Quantity: 1.010 ml

SVOC STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
407	5 ng BNA ICC, 5 PPM	SP6728	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.95000ml of E3874 + 0.05000ml of SP6721 = Final Quantity: 1.010 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
175	2.5 ng BNA ICC, 2.5 PPM	SP6729	01/30/2025	05/12/2025	Jagrut Upadhyay	None	None	Shreena Patel
								02/07/2025

FROM 0.01000ml of S12649 + 0.50000ml of E3874 + 0.50000ml of SP6728 = Final Quantity: 1.010 ml

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9262-03 / Hexane, Ultra-Resi (cs/4x4L)	0000209662	03/25/2025	12/05/2018 / rajesh	11/28/2018 / rajesh	E2559

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1	313201	07/01/2025	01/03/2024 / Rajesh	07/20/2023 / Rajesh	E3551

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H1462005	04/04/2025	10/04/2024 / Rajesh	10/04/2024 / Rajesh	E3815

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24G0862003	05/09/2025	11/09/2024 / Rajesh	11/04/2024 / Rajesh	E3828

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9254-03 / Acetone, Ultra Resi (cs/4x4L)	24H2762008	06/26/2025	12/26/2024 / Rajesh	12/13/2024 / Rajesh	E3846

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	06/18/2025	12/18/2024 / Rajesh	12/09/2024 / Rajesh	E3848

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	24K1762005	07/14/2025	01/14/2025 / Rajesh	12/27/2024 / Rajesh	E3871

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L)	25A0262002	07/30/2025	01/30/2025 / Rajesh	01/20/2025 / Rajesh	E3874

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	0000281827	06/02/2025	06/01/2022 / Rahul	04/05/2022 / william	M5173

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	02/08/2025	08/08/2024 / Jagrut	12/09/2021 / Christian	S10103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml	440246	07/30/2025	01/30/2025 / anahy	12/09/2021 / Christian	S10104

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31615 / SV Mixture, GC/MS Tuning Mixture, CH2Cl2, 1mL,	A0182667	03/31/2025	01/15/2025 / Rahul	03/18/2022 / Christian	S10246

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555871 / Custom Standard, 4-nitrophenol Std [CS 5238-4]	A0185300	05/31/2025	01/29/2025 / anahy	05/18/2022 / Christian	S10397

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555868 / Custom Standard, Benzidine Std [CS 5328-1]	A0186373	06/30/2025	01/29/2025 / anahy	07/05/2022 / Christian	S10584

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10978

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10979

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml,methanol,5ml/ ampul	A0188108	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S10980

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11004

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,CH ₂ Cl ₂ ,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11005

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11006

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11007

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11008

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11009

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0189418	04/10/2025	10/10/2024 / anahy	12/28/2022 / Christian	S11010

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	A0187043	05/15/2025	11/15/2024 / Jagrut	02/06/2023 / Christian	S11074

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days)	406703	03/11/2025	09/11/2024 / Rahul	02/07/2023 / Christian	S11085

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days)	406703	05/12/2025	11/12/2024 / Jagrut	02/07/2023 / Christian	S11086

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010074-07 / 3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 ml, (Maximum Expiration: 180 days)	406703	07/30/2025	01/30/2025 / anahy	02/07/2023 / Christian	S11087

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11093

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	495831	05/12/2025	11/12/2024 / Jagrut	02/07/2023 / Christian	S11099

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	495833	02/08/2025	08/08/2024 / Jagrut	02/07/2023 / Christian	S11103

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555869 / Custom Standard, hexachlorocyclopentadiene Std [CS 5328-2]	A0194702	07/29/2025	01/29/2025 / anahy	02/20/2023 / Christian	S11143

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	05/12/2025	11/12/2024 / Jagrut	03/06/2023 / Christian	S11160

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110817-01 / Custom 8270 Mix, 4-55, 1000 mg/L, 1 ml, (Maximum Expiration: 90 Days)	414125	06/21/2025	01/30/2025 / anahy	03/06/2023 / Christian	S11161

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555870 / Custom Standard, 2,4-dinitrophenol Std [CS 5328-3]	A0200549	08/31/2026	01/29/2025 / anahy	08/10/2023 / yogesh	S11487

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	02/08/2025	08/08/2024 / Jagrut	08/11/2023 / Yogesh	S11494

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml	506889	05/12/2025	11/12/2024 / Jagrut	08/11/2023 / Yogesh	S11495

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	555872 / Custom Standard, pentachlorophenol Std [CS 5328-5]	A0201728	07/29/2025	01/29/2025 / anahy	11/09/2023 / Yogesh	S11650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	06/26/2025	12/26/2024 / Jagrut	11/21/2023 / Rahul	S11781

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11782

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11783

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11784

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride	A0196453	07/29/2025	01/29/2025 / anahy	11/21/2023 / Rahul	S11785

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	04/24/2025	10/24/2024 / Jagrut	01/31/2024 / Rahul	S12079

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	02/09/2025	08/09/2024 / Jagrut	03/08/2024 / Rahul	S12113

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml	454157	05/12/2025	11/12/2024 / Jagrut	03/08/2024 / Rahul	S12114

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, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	11/14/2024 / anahy	03/15/2024 / Rahul	S12142

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12143

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, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12144

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12145

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0203726	04/30/2025	01/29/2025 / anahy	03/15/2024 / Rahul	S12146

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12187

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12188

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul	A0206206	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12189

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,CH ₂ Cl ₂ ,5ml	A0206381	04/10/2025	10/10/2024 / anahy	03/15/2024 / Rahul	S12207

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31086 / Base Neutral Surrogate 5000ug/ml,CH ₂ Cl ₂ ,5ml	A0206381	05/15/2025	11/15/2024 / Jagrut	03/15/2024 / Rahul	S12208

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml	520963	07/30/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12270

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	495833	03/11/2025	09/11/2024 / Rahul	05/24/2024 / Rahul	S12275

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-010442-07 / Benzaldehyde Solution, 1000 mg/L, 1.3 ml, (Maximum Expiration: 90 Days)	495833	05/12/2025	11/12/2024 / Jagrut	05/24/2024 / Rahul	S12276

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, CH ₂ Cl ₂ , 1mL	A0206540	05/12/2025	11/12/2024 / anahy	05/30/2024 / Rahul	S12327

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]	A0214021	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12469

[CS 4978-1]

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]	A0214021	05/26/2025	11/26/2024 / Jagrut	07/23/2024 / RAHUL	S12470

[CS 4978-1]

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]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12471

[CS 4978-1]

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]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12472

[CS 4978-1]

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]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12473

[CS 4978-1]

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]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12474

[CS 4978-1]

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]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12475

[CS 4978-1]

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]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12476

[CS 4978-1]

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]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12477

[CS 4978-1]

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]	A0214021	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12478

[CS 4978-1]

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]	A0214017	05/14/2025	11/14/2024 / anahy	07/23/2024 / RAHUL	S12517

[CS 4978-2]

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]	A0214017	07/03/2025	01/03/2025 / Jagrut	07/23/2024 / RAHUL	S12518

[CS 4978-2]

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]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12519

[CS 4978-2]

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]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12520

[CS 4978-2]

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]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12521

[CS 4978-2]

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]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12522

[CS 4978-2]

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]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12523

[CS 4978-2]

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]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12524

[CS 4978-2]

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]	A0214017	07/29/2025	01/29/2025 / anahy	07/23/2024 / RAHUL	S12525

[CS 4978-2]

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	07/21/2025	01/21/2025 / anahy	09/20/2024 / anahy	S12649

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH2Cl2, 1mL	A0212266	08/03/2025	02/03/2025 / anahy	09/20/2024 / anahy	S12650

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	05/12/2025	11/12/2024 / Jagrut	05/24/2024 / Rahul	S12790

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
CPI International	Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days)	414127	06/21/2025	01/30/2025 / anahy	05/24/2024 / Rahul	S12791

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH2Cl2 [New Solvent 100% CH2Cl2]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12963

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, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12964

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12965

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Restek	31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH ₂ Cl ₂ [New Solvent 100% CH ₂ Cl ₂]	A0219438	07/29/2025	01/29/2025 / anahy	12/11/2024 / anahy	S12966

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / lwona	07/03/2024 / lwona	W3112



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Date Received: _____

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010074-07	406703	≤ -10 °C	Methylene Chloride	3/30/2025	3,3'-Dichlorobenzidine Solution, 1,000 mg/L, 1 mL

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
3,3'-dichlorobenzidine	91-94-1	99.5	74.3.26P	989 ± 7.53

Received on
02/07/23
by
CG
S11084
to
S11088

*Not a certified value

Certified By: _____

Jacob Mulloy
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110817-01	414125	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-55, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acetophenone	98-86-2	99.2	85.8.1P	998 ± 11.5
benzoic acid	65-85-0	100	123.7.1P	1010 ± 5.88
biphenyl	92-52-4	99.9	366.29.1P	999 ± 5.82
1,2,4,5-tetrachlorobenzene	95-94-3	99.7	53.7.2P	993 ± 5.79

Received on
02/07/23
by
CG
S11089
to
S11093

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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Page 1 of 1

Catalog No.: Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**
Z-112090 440246 $\leq -10^{\circ}\text{C}$ Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL
-04

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
2-chlorophenol-d ₄	93951-73-6	99.3	248.12.7P	7487 $\pm$ 17.2
2-fluorophenol	367-12-4	99.8	10.7.3.3P	7513 $\pm$ 17.26
phenol-d ₆	13127-88-3	99.9	949.120.8P	7481 $\pm$ 17.19
2,4,6-tribromophenol	118-79-6	99.8	12.1.6P	7469 $\pm$ 17.17

Received on

02/25/21

by
CG

S9236
to

S9240

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Erica Castiglione

Certified By:

Erica Castiglione
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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Receivalon
02/07/23 by CG

Shelf S11096
to
S11099

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	495831	≤ -10 °C	Methylene Chloride	10/30/2027	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1003 ± 17.27
acenaphthylene	208-96-8	97.6	14.290.1P	999.8 ± 17.22
aniline	62-53-3	99.9	64.7.1P	995 ± 17.13
anthracene	120-12-7	99.5	15.7.1P	1001 ± 17.24
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 17.21
benzo[a]anthracene	56-55-3	100	16.7.3P	1001 ± 17.24
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1001 ± 19.91
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 17.92
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 19.88
benzo[a]pyrene	50-32-8	97	20.286.2P	999.1 ± 26.35
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 17.24
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	999.7 ± 17.89
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1001 ± 17.23
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.13P	999.5 ± 17.89
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 17.21
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 19.86
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1P	999.1 ± 17.2
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 19.58
carbazole	86-74-8	99.4	239.7.2P	1000 ± 17.22

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Brianna Smith
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 495831

Expiration Date: 10/30/2027

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	1000 ± 17.22
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	1000 ± 17.22
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	1002 ± 17.25

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By:



Briana Smith
Chemist

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Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	495833	≤ -10 °C	Methylene Chloride	1/16/2028	Benzaldehyde Solution, 1000 mg/L, 1.3 mL

<u>Compound</u>	<u>CAS No.</u>	<u>Purity (%)</u>	<u>Compound Lot No.</u>	<u>Concentration, mg/L</u>
benzaldehyde	100-52-7	98.3	442.421.1P	996.8 ± 11.49

Received on
02/07/23
by CG

S11101
to
S11103

*Not a certified value

Certified By: _____

S. Hunter

Scott Hunter
Chemist

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Received on
03/10/22
by
CG
S10242
to
S10247

Catalog No. : 31615 **Lot No.:** A0182667
Description : GC/MS Tuning Mixture
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2025 **Storage:** 10°C or colder
Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)	
1	Pentachlorophenol CAS # 87-86-5 (Lot 211229RSR) Purity 99%	1,003.6 µg/mL	+/- 5.8897 µg/mL +/- 45.7132 µg/mL +/- 66.0037 µg/mL	Gravimetric Unstressed Stressed
2	DFTPP (Decafluorotriphenylphosphine) CAS # 5074-71-5 (Lot Q117-147) Purity 95%	1,006.6 µg/mL	+/- 5.9074 µg/mL +/- 45.8508 µg/mL +/- 66.2023 µg/mL	Gravimetric Unstressed Stressed
3	Benzidine CAS # 92-87-5 (Lot 211228JLM) Purity 99%	1,008.4 µg/mL	+/- 5.9179 µg/mL +/- 45.9318 µg/mL +/- 66.3193 µg/mL	Gravimetric Unstressed Stressed
4	4,4'-DDT CAS # 50-29-3 (Lot 210916JLM) Purity 99%	1,007.6 µg/mL	+/- 5.9132 µg/mL +/- 45.8954 µg/mL +/- 66.2667 µg/mL	Gravimetric Unstressed Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

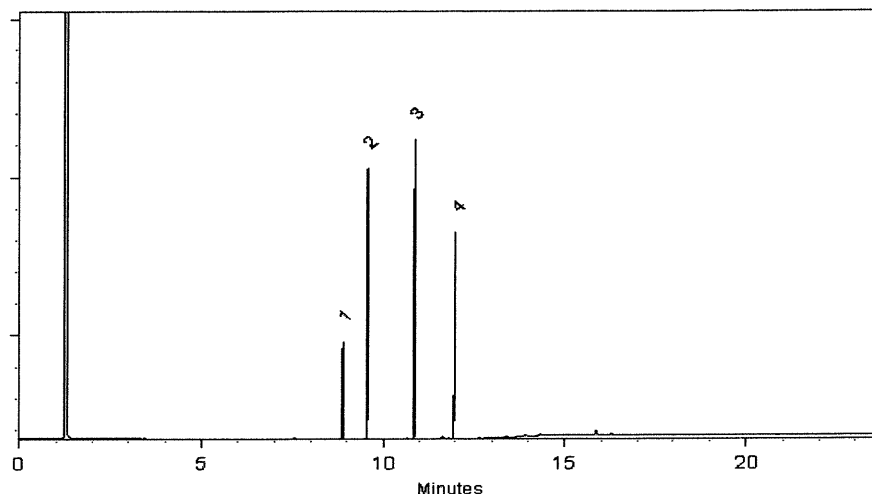
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Morgan Craighead - Mix Technician

Date Mixed: 08-Mar-2022

Balance: B345965662

Marlene Cowan - Operations Tech I

Date Passed: 10-Mar-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Catalog No. : 555871 **Lot No.:** A0185300
Description : Custom 4-Nitrophenol Standard
Custom 4-Nitrophenol Standard 25,000µg/mL, Methanol, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : May 31, 2025 **Storage:** 10°C or colder
Ship: Ambient

Received by
CG on
05/18/22
S10393
+0
S10402

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	4-Nitrophenol CAS # 100-02-7 Purity 99% (Lot MKCN1089)	25,060.0 µg/mL	+/- 231.9100 µg/mL Gravimetric +/- 753.2622 µg/mL Unstressed +/- 905.6020 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Katelyn McGinnis - Operations Tech I

Date Mixed: 16-May-2022 Balance: 1128342314

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



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Received by
CG
on
07/05/22
S 10583
to
S 10592

Catalog No. : 555868 **Lot No.:** A0186373

Description : Custom Benzidine Standard
Custom Benzidine Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : June 30, 2025 **Storage:** 10°C or colder

Handling: Contains carcinogen/reproductive toxin. **Ship:** Ambient

CERTIFIED VALUES

Component #	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Benzidine CAS # 92-87-5 Purity 99%	25,200.0 µg/mL (Lot 220511RSR)	+/- 233.2055 µg/mL Gravimetric +/- 351.6606 µg/mL Unstressed +/- 512.6054 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Tom Suckal - Mix Technician

Date Mixed: 16-Jun-2022 Balance: 1122030677

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value (includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k \sqrt{U_{gravimetric}^2 + U_{homogeneity}^2 + U_{storage\ stability}^2 + U_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

Label Conditions	Standard Conditions	Non-Standard Conditions
25°C Nominal (Room Temperature)	< 60°C	≥ 60°C up to 7 days
10°C or colder (Refrigerate)	< 40°C	≥ 40°C up to 7 days
0°C or colder (Freezer) -20°C or colder (Deep Freezer)	< 25°C	≥ 25°C up to 7 days

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.



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Certificate of Analysis



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Received on
02/08/23

b1
CG

S 11071
to
S 11075

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 CAS # 123-91-1 Purity 99% (Lot SHBN5929)	2,019.0 µg/mL	+/- 11.8486 µg/mL Gravimetric +/- 43.2570 µg/mL Unstressed +/- 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:

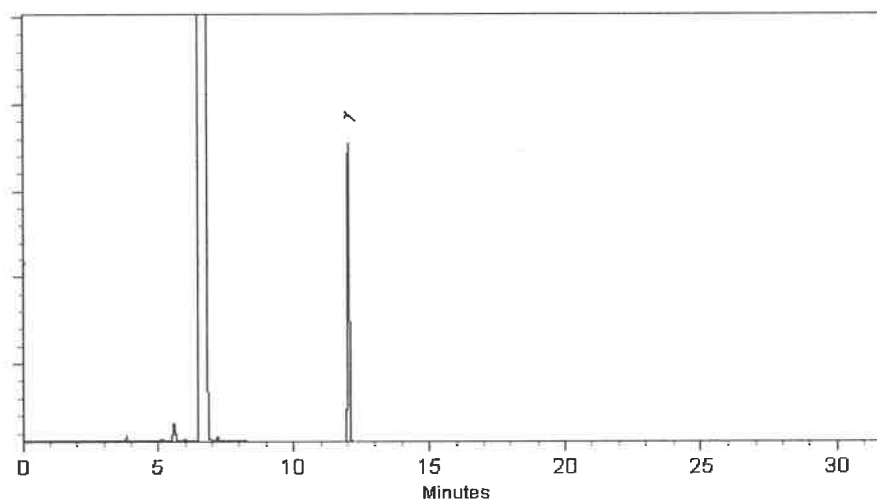
200°C

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



110 Benner Circle
Bellefonte, PA 16823-8812
Tel: (800)356-1688
Fax: (814)353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

Certificate of Analysis



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.

Received by
CG on
12/28/22
S10951
to
S10980

Catalog No. : 31087 **Lot No.:** A0188108
Description : Acid Surrogate Mix (4/89 SOW)
Acid Surrogate 10,000µg/mL, Methanol, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2030 **Storage:** 10°C or colder
Ship: Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	2-Fluorophenol CAS # 367-12-4 Purity 99% (Lot STBF3761V)	10,088.5 µg/mL	+/- 58.6554 µg/mL Gravimetric +/- 294.4162 µg/mL Unstressed +/- 357.2628 µg/mL Stressed
2	Phenol-d6 CAS # 13127-88-3 Purity 99% (Lot PR-31262)	10,043.3 µg/mL	+/- 58.3923 µg/mL Gravimetric +/- 293.0957 µg/mL Unstressed +/- 355.6603 µg/mL Stressed
3	2,4,6-Tribromophenol CAS # 118-79-6 Purity 99% (Lot MKCJ7664)	10,010.0 µg/mL	+/- 58.1990 µg/mL Gravimetric +/- 292.1253 µg/mL Unstressed +/- 354.4829 µg/mL Stressed

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

Inj. Temp:

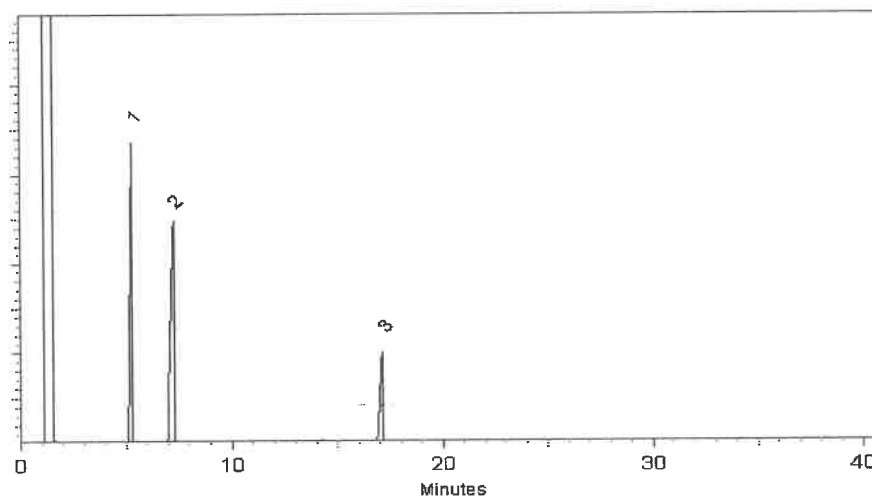
250°C

Det. Temp:

330°C

Det. Type:

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


Morgan Craighead - Mix Technician

Date Mixed: 02-Aug-2022

Balance: 1127510105


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 05-Aug-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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CERTIFIED REFERENCE MATERIAL

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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.

Received by
CG on
12/28/22
\$10981
to
S11010

Catalog No. : 31086 **Lot No.:** A0189418
Description : B/N Surrogate Mix (4/89 SOW)
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul
Container Size : 5 mL **Pkg Amt:** > 5 mL
Expiration Date : August 31, 2028 **Storage:** 10°C or colder
Handling: Sonicate prior to use. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	Grav. Conc. (weight/volume)	Expanded Uncertainty (95% C.L.; K=2)
1	Nitrobenzene-d5 CAS # 4165-60-0 (Lot PR-29940A) Purity 99%	5,009.8 µg/mL	+/- 29.1271 µg/mL Gravimetric +/- 225.6421 µg/mL Unstressed +/- 250.3778 µg/mL Stressed
2	2-Fluorobiphenyl CAS # 321-60-8 (Lot 00021384) Purity 99%	5,026.6 µg/mL	+/- 29.2250 µg/mL Gravimetric +/- 226.4003 µg/mL Unstressed +/- 251.2191 µg/mL Stressed
3	p-Terphenyl-d14 CAS # 1718-51-0 (Lot PR-30504) Purity 99%	5,027.3 µg/mL	+/- 29.2289 µg/mL Gravimetric +/- 226.4304 µg/mL Unstressed +/- 251.2524 µg/mL Stressed

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

Column:
30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

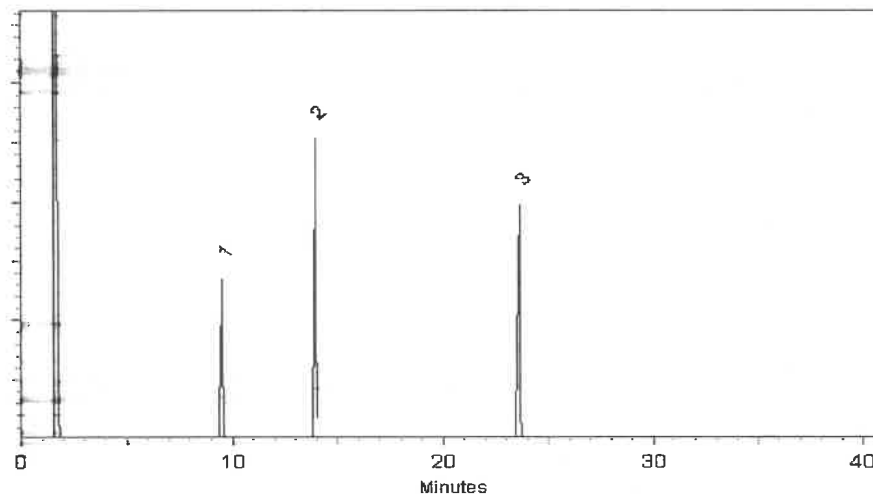
Carrier Gas:
hydrogen-constant pressure 10 psi.

Temp. Program:
40°C (hold 2 min.) to 330°C
@ 10°C/min. (hold 10 min.)

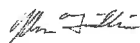
Inj. Temp:
250°C

Det. Temp:
330°C

Det. Type:
FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.


John Friedline - Operations Technician I

Date Mixed: 09-Sep-2022 **Balance:** 1128353505


Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 13-Sep-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397



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Tel: 1-814-353-1300
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

Certificate of Analysis

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555869 **Lot No.:** A0194702

Description : Custom Hexachlorocyclopentadiene Standard

Custom Hexachlorocyclopentadiene Standard 25,000µg/mL, Methanol, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : February 28, 2026 **Storage:** 10°C or colder

Ship: Ambient

CERTIFIED

Component #	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)
1	Hexachlorocyclopentadiene	77-47-4	0012019	99%	25,008.0 µg/mL

Solvent: Methanol
CAS # 67-56-1
Purity 99%

Russ Bookhamer - Operations Technician I

Date Mixed: 15-Feb-2023

Balance: B442140311

Manufactured under Restek
Registered Quality
Certificate #FM1

ified Reference Material Notes

Notes:

n date valid for unopened ampul stored in compliance with the recommended conditions.
 nty, concentration, and expiration of the CRM are based on the unopened product being stored according to the
 ended condition found in the storage field.

d/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD,
 LC/MS, RI, and/or melting point.
 rds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A
 n factor is used to calculate the amount of compound necessary to achieve the desired concentration of the
 mpound in solution.
 isomeric compounds is reported as the sum of the isomers.
 ues are rounded to the nearest whole number.

rtainty Value Notes:

rtainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded
 ty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability
 ty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

arage factor of 2, which gives a level of confidence of approximately 95%.
 ged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure
 nimum packaged amount can be sufficiently transferred.

Notes:

tion is based upon gravimetric preparation using either a balance whose calibration has been verified daily
 traceable weights, and/or dilutions with Class A glassware.

:

the unopened product, when stored in compliance with the recommended conditions, is guaranteed through
 ion displayed on the product label and certificate. Contact Restek for additional opened product stability
 i, with the knowledge/understanding that open product stability is subject to the specific handling and
 ntal conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with
 ards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom
 m. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861,
 des complete instructions.

ssolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely

Hexanes (95% n-hexane)
ULTRA RESI-ANALYZED
For Organic Residue Analysis



Material No.: 9262-03
Batch No.: 0000209662
Manufactured Date: 2018/08/28
Expiration Date: 2019/11/27
Revision No: 1

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	< 1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	2
ECD-Sensitive Impurities (as Ethylene Dibromide) - Single Impurity Peak (ng/mL)	≤ 5	< 1
Assay (Total Saturated C ₆ Isomers) (by GC, corrected for water)	$\geq 99.5 \%$	99.8
Assay (as n-Hexane) (by GC, corrected for water)	$\geq 95 \%$	98
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2
Substances Darkened by H ₂ SO ₄	Passes Test	PT
Water (by KF, coulometric)	$\leq 0.05 \%$	< 0.01

For Laboratory, Research or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

E 2559



Phillipsburg, NJ 9001:2015, FS5C22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17026:2005
Panaji, India 9001:2015

James Ethier
James Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700



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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 ₂ SO ₄
SPECIFICATION NUMBER :	6399	RELEASE DATE:	ABR/21/2023
LOT NUMBER :	313201		

TEST	SPECIFICATIONS	LOT VALUES
Assay (Na ₂ SO ₄)	Min. 99.0%	99.7 %
pH of a 5% solution at 25°C	5.2 - 9.2	6.1
Insoluble matter	Max. 0.01%	0.005 %
Loss on ignition	Max. 0.5%	0.1 %
Chloride (Cl)	Max. 0.001%	<0.001 %
Nitrogen compounds (as N)	Max. 5 ppm	<5 ppm
Phosphate (PO ₄)	Max. 0.001%	<0.001 %
Heavy metals (as Pb)	Max. 5 ppm	<5 ppm
Iron (Fe)	Max. 0.001%	<0.001 %
Calcium (Ca)	Max. 0.01%	0.002 %
Magnesium (Mg)	Max. 0.005%	0.001 %
Potassium (K)	Max. 0.008%	0.003 %
Extraction-concentration suitability	Passes test	Passes test
Appearance	Passes test	Passes test
Identification	Passes test	Passes test
Solubility and foreign matter	Passes test	Passes test
Retained on US Standard No. 10 sieve	Max. 1%	0.1 %
Retained on US Standard No. 60 sieve	Min. 94%	97.3 %
Through US Standard No. 60 sieve	Max. 5%	2.5 %
Through US Standard No. 100 sieve	Max. 10%	0.1 %
COMMENTS		
QC: PhC Irma Belmares		

If you need further details, please call our factory or contact our local distributor.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis



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) ₂ CO) (by GC, corrected for water)	>= 99.4 %	99.8 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.2 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	0.2 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	<1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E3815

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
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 24J0862003

Manufactured Date: 2024-09-12

Expiration Date: 2025-12-12

Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	2
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	≤ 10	1
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	100.0 %
Color (APHA)	≤ 10	5
Residue after Evaporation	≤ 1.0 ppm	0.2 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3828

Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Acetone
BAKER RESI-ANALYZED® Reagent
For Organic Residue Analysis

avantor™



Material No.: 9254-03
Batch No.: 24H2762008
Manufactured Date: 2024-04-18
Expiration Date: 2027-04-18
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay ((CH ₃) ₂ CO) (by GC, corrected for water)	>= 99.4 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.0 ppm
Substances Reducing Permanganate	Passes Test	Passes Test
Titration Acid (µeq/g)	<= 0.3	0.2
Titration Base (µeq/g)	<= 0.6	<0.1
Water (H ₂ O)	<= 0.5 %	<0.1 %
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	<= 10	1

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP On 12/13/24

E 3846

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)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titration Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3848


Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

12/27/24

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)



Material No.: 9266-A4
Batch No.: 24K1762005
Manufactured Date: 2024-10-08
Expiration Date: 2026-01-07
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	<= 5	1
ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)	<= 10	2
Assay (CH ₂ Cl ₂) (by GC, exclusive of preservative, corrected for water)	>= 99.8 %	100.0 %
Color (APHA)	<= 10	5
Residue after Evaporation	<= 1.0 ppm	0.5 ppm
Titration Acid (µeq/g)	<= 0.3	0.0
Chloride (Cl)	<= 10 ppm	<5 ppm
Water (by KF, coulometric)	<= 0.02 %	0.01 %

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3871


Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Methylene Chloride
ULTRA RESI-ANALYZED
For Organic Residue Analysis
(dichloromethane)

Avantor

Material No.: 9266-A4
Batch No.: 25A0262002
Manufactured Date: 2024-11-21
Expiration Date: 2026-02-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)	≤ 5	1
ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)	≤ 10	4
Assay (CH_2Cl_2) (by GC, exclusive of preservative, corrected for water)	$\geq 99.8\%$	99.9%
Color (APHA)	≤ 10	10
Residue after Evaporation	≤ 1.0 ppm	0.8 ppm
Titration Acid ($\mu\text{eq/g}$)	≤ 0.3	< 0.1
Chloride (Cl)	≤ 10 ppm	< 5 ppm
Water (by KF, coulometric)	$\leq 0.02\%$	$< 0.01\%$

For Laboratory, Research, or Manufacturing Use
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States
Packaging Site: Phillipsburg Mfg Ctr & DC

E 3874



Jamie Croak
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

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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

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 555870 **Lot No.:** 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

51148h
↓
511493
Y.P.
08/10/28

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 Suckal - 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/ μ ECD, 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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.



5580 Skylane Blvd
Santa Rosa, CA 95403

(707)525-5788
(800)878-7654 Toll Free
(707)545-7901 Fax

Manufacturer's Quality System
Audited & Registered
by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110094-02	506889	≤ -10 °C	Methylene Chloride	7/25/2028	CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2-dichlorobenzene-d ₄	2199-69-1	99.7	247.29.3P	5035 ± 28.02
2-fluorobiphenyl	321-60-8	99.69	8.286.1.1P	4999 ± 103.66
nitrobenzene-d5	4165-60-0	99.67	7.9.3P	4988 ± 27.32
p-terphenyl-d14	1718-51-0	99.3	9.120.8P	5005 ± 27.85

511494 } Y.P.
↓
511498 } 08/11/2023

*Not a certified value

Certified By: Shane C. Tipton
Clint Tipton
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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

gravimetric



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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chromatographic plus



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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. : 31853 **Lot No.:** A0196453
Description : 1,4-dioxane
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul
Container Size : 2 mL **Pkg Amt:** > 1 mL
Expiration Date : March 31, 2028 **Storage:** 0°C or colder
Ship: Ambient

S11749
↓
S11794 } RC / 11/30/23

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dioxane	123-91-1	SHBN3770	99%	2,013.0 µg/mL	+/- 25.0521

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant flow 1.8 mL/min.

Temp. Program:

80°C (hold 0.1 min.) to 330°C
@ 9.6°C/min. (hold 2.86 min.)

Inj. Temp:

250°C

Det. Temp:

340°C

Det. Type:

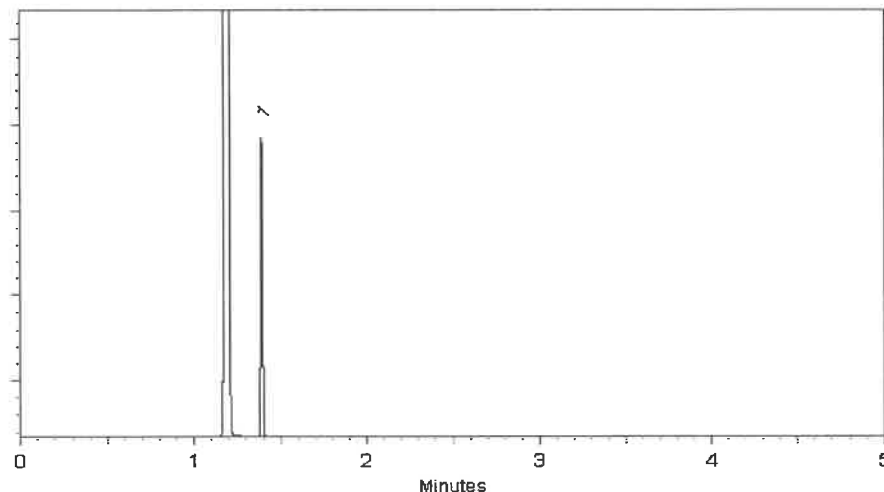
FID

Split Vent:

100 mL/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

Jennifer Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

General Certified Reference Material Notes

Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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Santa Rosa, CA 95403

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(707)545-7901 Fax

Manufacturer's Quality System
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by TUV USA to ISO 9001:2015

Date Received: _____

Certificate of Analysis

Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

912075 } RC
↓
912079 } 02/01/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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Santa Rosa, CA 95403

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Rev 0

Page 1 of 1

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-020223-01	454157	≤ -10 °C	P/T Methanol	6/10/2026	1,4-Dioxane Solution, 2000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,4-dioxane	123-91-1	100	223.1.3P	1997 ± 57.08

512112 } RC/
↓
912116 } 03/08/24

*Not a certified value

Certified By: _____

Melissa Workoff
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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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. : 31850 **Lot No.:** A0203726

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

512117 } RC/
↓ 03/18/24
512146 }

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,001.6 µg/mL	+/- 36.4412
2	N-Nitrosodimethylamine	62-75-9	230209JLM	99%	1,005.9 µg/mL	+/- 36.5968
3	Phenol	108-95-2	MKCK1120	99%	1,003.3 µg/mL	+/- 36.5038
4	Aniline	62-53-3	X22F726	99%	1,005.8 µg/mL	+/- 36.5928
5	Bis(2-chloroethyl)ether	111-44-4	SHBL6942	99%	1,008.1 µg/mL	+/- 36.6776
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,001.8 µg/mL	+/- 36.4492
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,002.3 µg/mL	+/- 36.4654
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,003.7 µg/mL	+/- 36.5159
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,008.7 µg/mL	+/- 36.6979
10	1,2-Dichlorobenzene	95-50-1	SHBN3835	99%	1,000.3 µg/mL	+/- 36.3926
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,003.5 µg/mL	+/- 36.5099
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,007.3 µg/mL	+/- 36.6493
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	504.3 µg/mL	+/- 18.3500
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.6 µg/mL	+/- 18.3237
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,008.3 µg/mL	+/- 36.6857
16	Hexachloroethane	67-72-1	QTORH	99%	1,007.5 µg/mL	+/- 36.6554
17	Nitrobenzene	98-95-3	10224044	99%	1,008.6 µg/mL	+/- 36.6938

18	Isophorone	78-59-1	MKCC9506	99%	1,005.9	µg/mL	+/- 36.5988	1
19	2-Nitrophenol	88-75-5	RP230710	99%	1,003.2	µg/mL	+/- 36.4998	2
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,003.8	µg/mL	+/- 36.5200	3
21	Bis(2-chloroethoxy)methane	111-91-1	13670200	99%	1,002.1	µg/mL	+/- 36.4573	4
22	2,4-Dichlorophenol	120-83-2	BCBZ6787	99%	1,003.7	µg/mL	+/- 36.5180	5
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,007.6	µg/mL	+/- 36.6574	6
24	Naphthalene	91-20-3	STBL1057	99%	1,008.3	µg/mL	+/- 36.6837	7
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,001.3	µg/mL	+/- 36.4290	8
26	Hexachlorobutadiene	87-68-3	RP230823RSR	98%	1,008.3	µg/mL	+/- 36.6829	9
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,003.1	µg/mL	+/- 36.4937	10
28	2-Methylnaphthalene	91-57-6	STBK0259	96%	1,001.9	µg/mL	+/- 36.4505	11
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	1,000.0	µg/mL	+/- 36.3838	12
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,008.5	µg/mL	+/- 36.6909	13
31	2,4,6-Trichlorophenol	88-06-2	STBJ5914	99%	1,004.4	µg/mL	+/- 36.5442	14
32	2,4,5-Trichlorophenol	95-95-4	FHN01	98%	1,001.9	µg/mL	+/- 36.4512	15
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,001.1	µg/mL	+/- 36.4230	16
34	2-Nitroaniline	88-74-4	RP230531	99%	1,002.9	µg/mL	+/- 36.4876	17
35	1,4-Dinitrobenzene	100-25-4	RP230816	99%	1,005.7	µg/mL	+/- 36.5887	
36	Acenaphthylene	208-96-8	p06V	98%	1,009.5	µg/mL	+/- 36.7265	
37	1,3-Dinitrobenzene	99-65-0	1-DXX-24-1	99%	1,004.4	µg/mL	+/- 36.5422	
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,005.9	µg/mL	+/- 36.5968	
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,003.2	µg/mL	+/- 36.4998	
40	1,2-Dinitrobenzene	528-29-0	RP230428	99%	1,002.2	µg/mL	+/- 36.4634	
41	Acenaphthene	83-32-9	MKCR7169	99%	1,009.3	µg/mL	+/- 36.7221	
42	3-Nitroaniline	99-09-2	RP230822RSR	99%	1,003.9	µg/mL	+/- 36.5240	
43	2,4-Dinitrophenol	51-28-5	DR230417RSR	99%	1,002.0	µg/mL	+/- 36.4553	
44	Dibenzofuran	132-64-9	MKCD9952	99%	1,006.7	µg/mL	+/- 36.6251	
45	2,4-Dinitrotoluene	121-14-2	MKAA0690V	99%	1,003.8	µg/mL	+/- 36.5220	
46	4-Nitrophenol	100-02-7	RP230627	99%	1,002.3	µg/mL	+/- 36.4674	
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-30126	99%	1,008.7	µg/mL	+/- 36.6979	
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP230919	99%	1,006.3	µg/mL	+/- 36.6130	
49	Fluorene	86-73-7	10241100	99%	1,008.3	µg/mL	+/- 36.6857	
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,003.8	µg/mL	+/- 36.5220	
51	Diethylphthalate	84-66-2	MKCD2547	99%	1,008.6	µg/mL	+/- 36.6958	
52	4-Nitroaniline	100-01-6	RP230111	99%	1,001.1	µg/mL	+/- 36.4230	
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	230718JLM	99%	1,002.0	µg/mL	+/- 36.4553	

54	Diphenylamine	122-39-4	MKCH1042	99%	1,002.3	µg/mL	+/- 36.4674
55	Azobenzene	103-33-3	BCKK0887	99%	1,005.8	µg/mL	+/- 36.5928
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,003.0	µg/mL	+/- 36.4917
57	Hexachlorobenzene	118-74-1	14821700	99%	1,007.5	µg/mL	+/- 36.6554
58	Pentachlorophenol	87-86-5	RP230530RSR	99%	1,008.8	µg/mL	+/- 36.7019
59	Phenanthrene	85-01-8	MKCQ8876	99%	1,008.4	µg/mL	+/- 36.6877
60	Anthracene	120-12-7	MKCR0570	99%	1,009.0	µg/mL	+/- 36.7100
61	Carbazole	86-74-8	14351100	99%	1,000.9	µg/mL	+/- 36.4149
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,007.6	µg/mL	+/- 36.6595
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,009.6	µg/mL	+/- 36.7302
64	Pyrene	129-00-0	BCCG8479	98%	1,007.2	µg/mL	+/- 36.6453
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,002.1	µg/mL	+/- 36.4573
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.2	µg/mL	+/- 36.5705
67	Benz(a)anthracene	56-55-3	I220012022BAA	99%	1,002.2	µg/mL	+/- 36.4614
68	Chrysene	218-01-9	RP230601	99%	1,008.3	µg/mL	+/- 36.6837
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCQ3468	99%	1,001.8	µg/mL	+/- 36.4472
70	Di-n-octyl phthalate	117-84-0	14382700	99%	1,006.0	µg/mL	+/- 36.6008
71	Benzo(b)fluoranthene	205-99-2	012013B	99%	1,002.8	µg/mL	+/- 36.4836
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,003.0	µg/mL	+/- 36.4917
73	Benzo(a)pyrene	50-32-8	P54915-0703	99%	1,002.3	µg/mL	+/- 36.4674
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,009.4	µg/mL	+/- 36.7243
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,007.6	µg/mL	+/- 36.6595
76	Benzo(g,h,i)perylene	191-24-2	RP231003RSR	99%	1,002.9	µg/mL	+/- 36.4876

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%



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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. : 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

512187 } RC/
↓
512206 } 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:

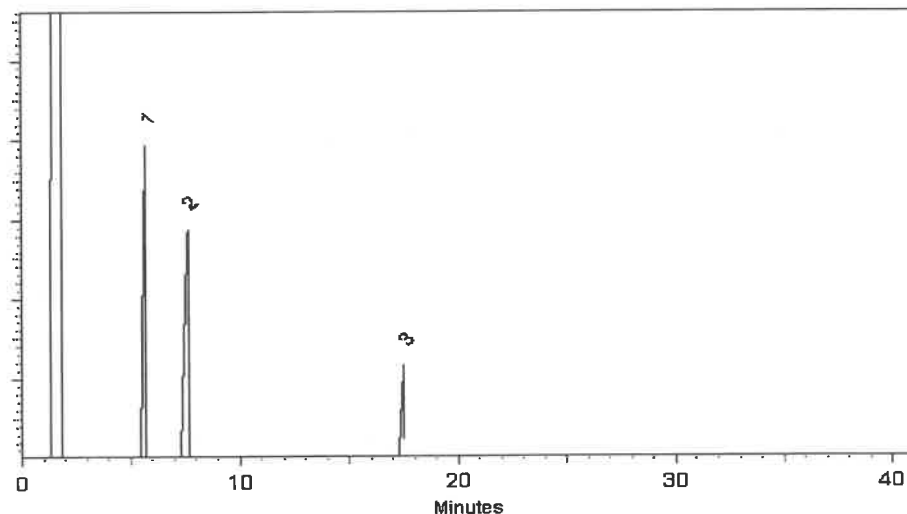
FID

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 A. Riglin

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

Christie Mills

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 } RC/
↓
S12221 } 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-S (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:

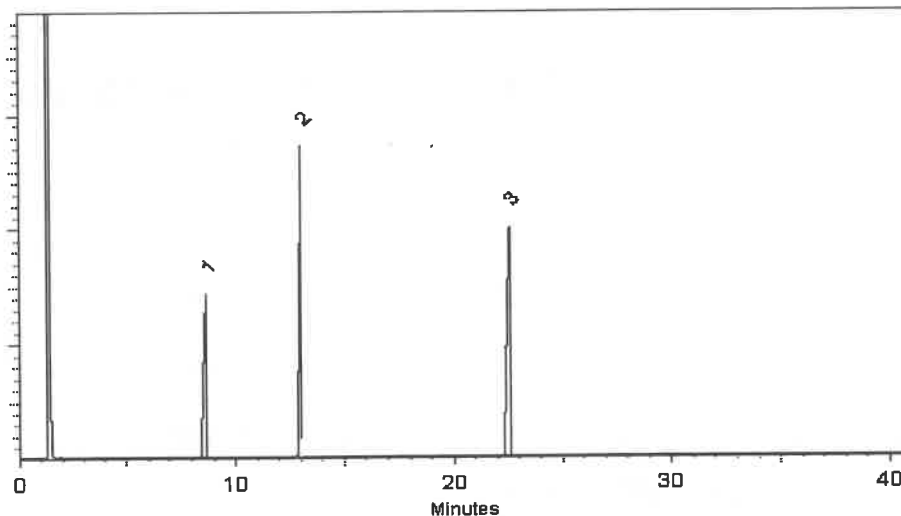
FID

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

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397



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Page 1 of 4

Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110381-01	520963	≤ -10 °C	Methylene Chloride	10/10/2028	Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
acenaphthene	83-32-9	99.9	13.1.5P	1010 ± 9.89
acenaphthylene	208-96-8	97.6	14.290.1P	1014 ± 9.93
aniline	62-53-3	99.97	64.1.4P	1001 ± 9.8
anthracene	120-12-7	99.5	15.7.1P	999.6 ± 9.79
azobenzene	103-33-3	98.1	252.7.2P	999.1 ± 9.8
benzo[a]anthracene	56-55-3	100	16.7.3P	1007 ± 9.86
benzo[b]fluoranthene	205-99-2	99.8	17.421.3P	1011 ± 14.11
benzo[k]fluoranthene	207-08-9	98.9	18.421.4P	1001 ± 10.96
benzo[ghi]perylene	191-24-2	93	19.286.4P	999.6 ± 13.95
benzo[a]pyrene	50-32-8	97	20.286.2P	999.9 ± 22.24
benzyl alcohol	100-51-6	99.9	65.18.1P	1001 ± 9.82
bis(2-chloroethoxy)methane	111-91-1	99.1	31.3.15P	1000 ± 14.69
bis(2-chloroethyl)ether	111-44-4	99.8	32.7.1P	1003 ± 13.89
bis(2-chloro-1-methylethyl) ether	108-60-1	99.5	34.3.15P	999.4 ± 14.68
bis(2-ethylhexyl)adipate	103-23-1	99.5	874.7.1P	999.5 ± 9.8
bis(2-ethylhexyl)phthalate	117-81-7	99.4	33.29.1P	998.8 ± 17.03
4-bromophenyl phenyl ether	101-55-3	99.4	35.7.1.1P	1000 ± 13.85
butyl benzyl phthalate	85-68-7	98.4	36.1.6P	984.7 ± 16.79
carbazole	86-74-8	99.4	239.7.2P	1000 ± 9.8

*Not a certified value

512270 } RC/
↓
512274 } 05/24/24

Kerry Kane

Certified By: _____

Kerry Kane
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.

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Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
4-chloroaniline	106-47-8	100	66.7.1P	1000 ± 9.79
4-chlorophenylphenyl ether	7005-72-3	98	37.158.2P	1001 ± 17.07
4-chloro-3-methylphenol	59-50-7	99	102.1.2P	1006 ± 17.16
2-chloronaphthalene	91-58-7	99.9	42.7.6P	1000 ± 9.79
2-chlorophenol	95-57-8	99.8	103.7.1P	1007 ± 13.96
chrysene	218-01-9	96	21.286.2P	998.4 ± 12.85
dibenz[a,h]anthracene	53-70-3	99.44	22.286.3P	1000 ± 9.74
dibenzofuran	132-64-9	100	67.7.2.1P	1002 ± 9.77
di-n-butyl phthalate	84-74-2	99.84	40.286.1P	1007 ± 24.48
1,2-dichlorobenzene	95-50-1	99.8	43.7.1P	1000 ± 9.79
1,3-dichlorobenzene	541-73-1	99.5	44.1.3P	999.4 ± 9.79
1,4-dichlorobenzene	106-46-7	99.9	45.29.2P	1000 ± 9.79
2,4-dichlorophenol	120-83-2	99.6	104.7.1.1P	1005 ± 13.93
diethyl phthalate	84-66-2	99.8	38.7.1P	1011 ± 14
2,4-dimethylphenol	105-67-9	99.6	105.7.1.1P	1009 ± 13.98
dimethyl phthalate	131-11-3	99.9	39.9.2P	996.5 ± 13.8
1,2-dinitrobenzene	528-29-0	99.86	86.7.3.1P	999.5 ± 9.75
1,3-dinitrobenzene	99-65-0	100	313.7.2P	998 ± 9.79
1,4-dinitrobenzene	100-25-4	100	907.7.1P	999.5 ± 9.8
2,4-dinitrophenol	51-28-5	99.9	106.1.6DP	1002 ± 13.89
2,4-dinitrotoluene	121-14-2	100	87.7.3P	999.8 ± 13.85
2,6-dinitrotoluene	606-20-2	99.4	88.7.2.1P	999.6 ± 13.85
di-n-octyl phthalate	117-84-0	99.1	41.7.5P	991.6 ± 13.74
diphenylamine	122-39-4	100	78.1.6P	998 ± 13.79
2,3,5,6-tetrachlorophenol	935-95-5	97	1112.286.1P	1004 ± 14.02
fluoranthene	206-44-0	98.6	23.7.4P	999.6 ± 9.79
fluorene	86-73-7	98.4	24.7.1P	999.7 ± 9.79

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

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Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
hexachlorobenzene	118-74-1	99	46.158.4P	999.9 ± 13.96
hexachlorobutadiene	87-68-3	97.4	47.1.4P	1000 ± 9.79
hexachlorocyclopentadiene	77-47-4	99.2	48.2.2P	1001 ± 9.8
hexachloroethane	67-72-1	99.9	49.1.4P	1003 ± 9.82
indeno[1,2,3-cd]pyrene	193-39-5	98	25.286.4P	999.4 ± 22.23
isophorone	78-59-1	98.9	90.1.4P	999.9 ± 13.85
2-methyl-4,6-dinitrophenol	534-52-1	99.6	107.421.2DP	991 ± 24.09
1-methylnaphthalene	90-12-0	97.1	249.7.5P	999.2 ± 13.95
2-methylnaphthalene	91-57-6	97.4	68.7.2P	1006 ± 22.38
2-methylphenol	95-48-7	99.6	114.7.3P	1001 ± 13.87
3-methylphenol	108-39-4	99.1	115.7.4P	499.7 ± 6.92
4-methylphenol	106-44-5	99.5	116.7.1P	501.2 ± 6.94
naphthalene	91-20-3	99.8	26.9.1P	1018 ± 9.97
2-nitroaniline	88-74-4	99.7	69.29.1P	999.6 ± 9.79
3-nitroaniline	99-09-2	100	70.7.3P	1000 ± 9.74
4-nitroaniline	100-01-6	99.7	71.29.1P	1001 ± 9.8
nitrobenzene	98-95-3	100	94.7.1P	1000 ± 13.85
2-nitrophenol	88-75-5	99.1	108.29.1P	996.5 ± 13.81
4-nitrophenol	100-02-7	100	109.7.1P	1000 ± 13.82
N-nitrosodimethylamine	62-75-9	99.5	57.3.19P	998.5 ± 14.67
N-nitrosodi-n-propylamine	621-64-7	99.8	59.286.1P	996.8 ± 17
pentachlorophenol	87-86-5	99	110.1.7P	1004 ± 13.92
phenanthrene	85-01-8	99.7	27.1.5P	999 ± 12.87
phenol	108-95-2	100	112.7.1P	998.5 ± 13.8
pyrene	129-00-0	99.2	28.9.2P	998.9 ± 9.78
pyridine	110-86-1	100	101.24.1P	999 ± 9.73
2,3,4,6-Tetrachlorophenol	58-90-2	91.8	120.421.1P	996.5 ± 13.92

*Not a certified value

Kerry Kane

Certified By:

Kerry Kane
Chemist

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listed are determined gravimetrically.

Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
1,2,4-trichlorobenzene	120-82-1	99.6	54.29.1P	999.6 ± 9.79
2,4,5-trichlorophenol	95-95-4	96.5	121.7.1.1P	999.5 ± 13.85
2,4,6-trichlorophenol	88-06-2	99.6	113.7.1P	996 ± 13.8

*Not a certified value



Certified By:

Kerry Kane
Chemist

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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	495833	≤ -10 °C	Methylene Chloride	1/16/2028	Benzaldehyde Solution, 1000 mg/L, 1.3 mL
Compound		CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
benzaldehyde		100-52-7	98.3	442.421.1P	996.8 ± 11.49

512275 } RC/
↓
512279 } 05/24/24

*Not a certified value

Certified By: _____

S. Hunter

Scott Hunter
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-010442-07	495833	≤ -10 °C	Methylene Chloride	1/16/2028	Benzaldehyde Solution, 1000 mg/L, 1.3 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
benzaldehyde	100-52-7	98.3	442.421.1P	996.8 ± 11.49

512275 } RC/
↓
512279 } 05/24/24

*Not a certified value

Certified By: _____

S. Hunter

Scott Hunter
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values
listed are determined gravimetrically.



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chromatographic plus



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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.:** A0206540

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : December 31, 2029 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12312 } RC/
↓ 05/30/24
S12331

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,007.1 µg/mL	+/- 90.4025
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,005.9 µg/mL	+/- 90.3454
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,007.9 µg/mL	+/- 90.4385
4	Phenanthrene-d10	1517-22-2	PR-32303	99%	2,006.7 µg/mL	+/- 90.3845
5	Chrysene-d12	1719-03-5	PR-32210	99%	2,015.5 µg/mL	+/- 90.7778
6	Perylene-d12	1520-96-3	PR-33205	99%	2,014.7 µg/mL	+/- 90.7448

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Quality Confirmation Test

Column:

30m x 0.25mm x 0.25µm
Rtx-5 (cat.#10223)

Carrier Gas:

hydrogen-constant pressure 10 psi.

Temp. Program:

75°C (hold 1 min.) to 330°C
@ 20°C/min. (hold 10 min.)

Inj. Temp:

250°C

Det. Temp:

330°C

Det. Type:

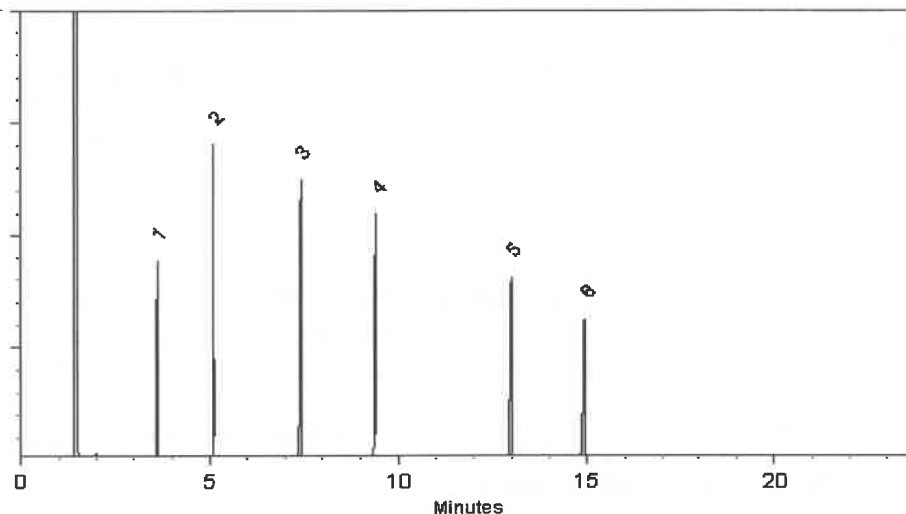
FID

Split Vent:

10 ml/min.

Inj. Vol

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Malina Homan
Malina Homan - Operations Technician I

Date Mixed: 12-Jan-2024

Balance Serial # 1128360905

Jennifer J. Pollino
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 16-Jan-2024

Manufactured under Restek's ISO 9001:2015
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Certificate #FM 80397



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gravimetric



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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.:** 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 } RC/
↓
S12508 } 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/ μ ECD, 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

k is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Certificate of Analysis

gravimetric



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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. : 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 } RC/
↓
S12568 } 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:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

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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chromatographic plus



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Catalog No. : 31206 **Lot No.:** A0212266

Description : SV Internal Standard Mix 2mg/ml
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : April 30, 2030 **Storage:** 10°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	1,4-Dichlorobenzene-d4	3855-82-1	PR-30447	99%	2,000.6 µg/mL	+/- 90.1075
2	Naphthalene-d8	1146-65-2	M-2180	99%	2,000.3 µg/mL	+/- 90.0925
3	Acenaphthene-d10	15067-26-2	PR-33507	99%	2,000.4 µg/mL	+/- 90.1000
4	Phenanthrene-d10	1517-22-2	PR-34099	99%	2,000.5 µg/mL	+/- 90.1037
5	Chrysene-d12	1719-03-5	PR-33506	99%	2,000.7 µg/mL	+/- 90.1112
6	Perylene-d12	1520-96-3	PR-33205	99%	2,000.6 µg/mL	+/- 90.1075

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

S12645
↓
S12674
AC
10/1/24



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Catalog No.:	Lot No.:	Storage:	Solvent:	Exp. Date:	Description:
Z-110816-01	414127	≤ -10 °C	Methylene Chloride	6/21/2025	Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL

Compound	CAS No.	Purity (%)	Compound Lot No.	Concentration, mg/L
atrazine	1912-24-9	99.5	337.7.3P	997 ± 5.81
benzidine	92-87-5	99.9	124.18.6.2P	991.8 ± 5.77
caprolactam	105-60-2	99.9	271.1.6P	999 ± 5.82

~~512280~~ } RCL
↓
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL
↓
512794 } 11/12/24

*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: _____

Shane Overcash
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



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



FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.

Catalog No. : 31850 **Lot No.:** A0219438

Description : 8270 MegaMix®
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL **Pkg Amt:** > 1 mL

Expiration Date : September 30, 2025 **Storage:** 0°C or colder

Handling: Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963
↓
S12992 } AC
12/17/20

CERTIFIED VALUES

Elution Order	Compound	CAS #	Lot #	Purity	Grav. Conc. (weight/volume)	Expanded Uncertainty * (95% C.L.; K=2)
1	Pyridine	110-86-1	SHBP6240	99%	1,008.3 µg/mL	+/- 36.6849
2	N-Nitrosodimethylamine	62-75-9	S240313RSR	99%	1,008.6 µg/mL	+/- 36.6985
3	Phenol	108-95-2	MKCK1120	99%	1,003.5 µg/mL	+/- 36.5120
4	Aniline	62-53-3	X22F726	99%	1,002.9 µg/mL	+/- 36.4893
5	Bis(2-chloroethyl)ether	111-44-4	002891T24M	99%	1,003.0 µg/mL	+/- 36.4938
6	2-Chlorophenol	95-57-8	STBJ3909	99%	1,005.6 µg/mL	+/- 36.5894
7	1,3-Dichlorobenzene	541-73-1	BCCD5315	99%	1,004.1 µg/mL	+/- 36.5348
8	1,4-Dichlorobenzene	106-46-7	MKBS7929V	99%	1,002.1 µg/mL	+/- 36.4620
9	Benzyl alcohol	100-51-6	SHBK5469	99%	1,003.5 µg/mL	+/- 36.5120
10	1,2-Dichlorobenzene	95-50-1	SHBL6287	99%	1,005.3 µg/mL	+/- 36.5757
11	2-Methylphenol (o-cresol)	95-48-7	SHBN7598	99%	1,008.4 µg/mL	+/- 36.6894
12	2,2'-oxybis(1-chloropropane)	108-60-1	29-MAR-45-5	99%	1,004.6 µg/mL	+/- 36.5530
13	3-Methylphenol (m-cresol)	108-39-4	STBJ0710	99%	502.1 µg/mL	+/- 18.2697
14	4-Methylphenol (p-cresol)	106-44-5	SHBN3411	99%	503.8 µg/mL	+/- 18.3288
15	N-Nitroso-di-n-propylamine	621-64-7	N63MG	99%	1,006.5 µg/mL	+/- 36.6212
16	Hexachloroethane	67-72-1	DAXRI	99%	1,004.5 µg/mL	+/- 36.5484
17	Nitrobenzene	98-95-3	10224044	99%	1,002.5 µg/mL	+/- 36.4757

18	Isophorone	78-59-1	MKCR3249	99%	1,003.4	µg/mL	+/- 36.5075
19	2-Nitrophenol	88-75-5	RP230710	99%	1,002.5	µg/mL	+/- 36.4757
20	2,4-Dimethylphenol	105-67-9	XW5GK	99%	1,006.5	µg/mL	+/- 36.6212
21	Bis(2-chloroethoxy)methane	111-91-1	15705100	99%	1,006.6	µg/mL	+/- 36.6257
22	2,4-Dichlorophenol	120-83-2	BCKK6969	99%	1,001.5	µg/mL	+/- 36.4393
23	1,2,4-Trichlorobenzene	120-82-1	SHBP5900	99%	1,006.4	µg/mL	+/- 36.6166
24	Naphthalene	91-20-3	STBL1057	99%	1,002.1	µg/mL	+/- 36.4620
25	4-Chloroaniline	106-47-8	BCCJ3217	99%	1,004.4	µg/mL	+/- 36.5439
26	Hexachlorobutadiene	87-68-3	X05J	98%	1,002.5	µg/mL	+/- 36.4771
27	4-Chloro-3-methylphenol	59-50-7	BCCD4461	99%	1,004.5	µg/mL	+/- 36.5484
28	2-Methylnaphthalene	91-57-6	STBL3028	99%	1,000.0	µg/mL	+/- 36.3847
29	1-Methylnaphthalene	90-12-0	5234.00-8	98%	990.2	µg/mL	+/- 36.0269
30	Hexachlorocyclopentadiene	77-47-4	099063I14L	98%	1,001.3	µg/mL	+/- 36.4325
31	2,4,6-Trichlorophenol	88-06-2	STBK8870	99%	1,006.4	µg/mL	+/- 36.6166
32	2,4,5-Trichlorophenol	95-95-4	3YFRE	97%	1,004.6	µg/mL	+/- 36.5505
33	2-Chloronaphthalene	91-58-7	RPN7O	99%	1,004.3	µg/mL	+/- 36.5393
34	2-Nitroaniline	88-74-4	RP240715RSR	99%	1,004.4	µg/mL	+/- 36.5439
35	1,4-Dinitrobenzene	100-25-4	RP240703RSR	99%	1,002.8	µg/mL	+/- 36.4847
36	Acenaphthylene	208-96-8	RP241029RSR	98%	1,000.0	µg/mL	+/- 36.3835
37	1,3-Dinitrobenzene	99-65-0	TRC3-1075941-2-1	99%	1,006.3	µg/mL	+/- 36.6121
38	Dimethylphthalate	131-11-3	358221L17K	99%	1,008.9	µg/mL	+/- 36.7076
39	2,6-Dinitrotoluene	606-20-2	BCCG1833	99%	1,006.6	µg/mL	+/- 36.6257
40	1,2-Dinitrobenzene	528-29-0	RP240701RSR	99%	1,002.5	µg/mL	+/- 36.4757
41	Acenaphthene	83-32-9	MKCR7169	99%	1,000.0	µg/mL	+/- 36.3847
42	3-Nitroaniline	99-09-2	RP240708RSR	99%	1,004.6	µg/mL	+/- 36.5530
43	2,4-Dinitrophenol	51-28-5	D240927RSR	----%	1,005.6	µg/mL	+/- 36.5894
44	Dibenzofuran	132-64-9	MKCN1772	99%	1,003.5	µg/mL	+/- 36.5120
45	2,4-Dinitrotoluene	121-14-2	102869V26E	99%	1,008.3	µg/mL	+/- 36.6849
46	4-Nitrophenol	100-02-7	20241029-2-AN	99%	1,004.8	µg/mL	+/- 36.5575
47	2,3,4,6-Tetrachlorophenol	58-90-2	PR-34476	99%	1,005.8	µg/mL	+/- 36.5939
48	2,3,5,6-Tetrachlorophenol	935-95-5	RP231219RSR	99%	1,006.4	µg/mL	+/- 36.6166
49	Fluorene	86-73-7	10246250	98%	1,000.7	µg/mL	+/- 36.4102
50	4-Chlorophenyl phenyl ether	7005-72-3	MKCT7248	99%	1,004.9	µg/mL	+/- 36.5621
51	Diethylphthalate	84-66-2	BCCJ6241	99%	1,003.9	µg/mL	+/- 36.5257
52	4-Nitroaniline	100-01-6	RP230111	99%	1,006.6	µg/mL	+/- 36.6257
53	4,6-Dinitro-2-methylphenol (Dinitro-o-cresol)	534-52-1	S241008RSR	99%	1,001.3	µg/mL	+/- 36.4302

54	Diphenylamine	122-39-4	MKCT1512	99%	1,003.0	µg/mL	+/- 36.4938
55	Azobenzene	103-33-3	BCKK0887	99%	1,002.4	µg/mL	+/- 36.4711
56	4-Bromophenyl phenyl ether	101-55-3	STBH6361	99%	1,008.8	µg/mL	+/- 36.7031
57	Hexachlorobenzene	118-74-1	15458400	99%	1,005.1	µg/mL	+/- 36.5712
58	Pentachlorophenol	87-86-5	RP240517RSR	99%	1,005.9	µg/mL	+/- 36.5984
59	Phenanthrene	85-01-8	MKCT3391	99%	1,004.9	µg/mL	+/- 36.5621
60	Anthracene	120-12-7	101492T18R	99%	1,005.1	µg/mL	+/- 36.5712
61	Carbazole	86-74-8	15276700	99%	1,005.4	µg/mL	+/- 36.5803
62	Di-n-butylphthalate	84-74-2	MKCN4337	99%	1,006.3	µg/mL	+/- 36.6121
63	Fluoranthene	206-44-0	MKCQ4728	99%	1,003.5	µg/mL	+/- 36.5120
64	Pyrene	129-00-0	BCKK2592	99%	1,002.0	µg/mL	+/- 36.4575
65	Benzyl butyl phthalate	85-68-7	X12I018	99%	1,007.5	µg/mL	+/- 36.6576
66	Bis(2-ethylhexyl)adipate	103-23-1	MKCM1988	99%	1,005.9	µg/mL	+/- 36.5984
67	Benz(a)anthracene	56-55-3	I70012022BAA	99%	1,005.5	µg/mL	+/- 36.5848
68	Chrysene	218-01-9	RP241007RSR	99%	1,005.3	µg/mL	+/- 36.5757
69	Bis(2-ethylhexyl)phthalate	117-81-7	MKCS8065	99%	1,007.5	µg/mL	+/- 36.6576
70	Di-n-octyl phthalate	117-84-0	15566400	99%	1,002.3	µg/mL	+/- 36.4666
71	Benzo(b)fluoranthene	205-99-2	052013B	99%	1,004.1	µg/mL	+/- 36.5348
72	Benzo(k)fluoranthene	207-08-9	012022K	99%	1,002.8	µg/mL	+/- 36.4847
73	Benzo(a)pyrene	50-32-8	NQLXA	98%	1,006.2	µg/mL	+/- 36.6108
74	Indeno(1,2,3-cd)pyrene	193-39-5	12-JKL-118-9	97%	1,001.8	µg/mL	+/- 36.4490
75	Dibenz(a,h)anthracene	53-70-3	2-ASA-59-1	99%	1,003.3	µg/mL	+/- 36.5029
76	Benzo(g,h,i)perylene	191-24-2	RP241014RSR	98%	1,003.8	µg/mL	+/- 36.5217

* Expanded Uncertainty displayed in same units as Grav. Conc.

Solvent: Methylene chloride
CAS # 75-09-2
Purity 99%

Tech Tips:

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



SHIPPING DOCUMENTS

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CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: RU2 Engineering LLC
ADDRESS: 2 Melinda Drive
Monroe Twp, NJ 08831

CITY: STATE: ZIP:

ATTENTION: Rutu Manani

PHONE: 609-409-4564

FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: SANDTWOOR BMLR Project

PROJECT NO.: LOCATION: Brooklyn, NY

PROJECT MANAGER: Rutu Manani

e-mail: Rmanani@RU2eng.com

PHONE:

FAX:

CLIENT BILLING INFORMATION

BILL TO: Same as company address PO#:

ADDRESS:

CITY:

STATE:

ZIP:

ATTENTION:

PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) Standard 10 days DAYS*

HARDCOPY (DATA PACKAGE): Standard 10 days DAYS*

EDD: Standard 10 days DAYS*

*TO BE APPROVED BY CHEMTECH

STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS DAYS

DATA DELIVERABLE INFORMATION

- ☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC) ☐ NYS ASP A ☒ NYS ASP B
+ Raw Data ☐ Other _____
☐ EDD FORMAT _____

1. TEL VOCs + TMS
2. TEL VOCs
3. TPH
4. TEL GRO-DRO
5. TAL SVOCs + TMS
6. TAL Metals
7. Pesticides, PCBs
8. ELCA Characterization
9. Paint Filter
10. Full TELP

PRESERVATIVES

COMMENTS

CHEMTECH SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE		SAMPLE COLLECTION		# OF BOTTLES										Specify Preservatives A-HCl B-HNO3 C-H2SO4 D-NaOH E-ICE F-OTHER	
			COMP	GRAB	DATE	TIME		1	2	3	4	5	6	7	8	9		
1.	JPP-2.1-012725	Soil		G	1/27/25	9:05	3	X	X	X								
2.	JPP-2.1-012725	Soil	C		1/27/25	9:08	7			X	X	X	X	X	X	X		
3.	JPP-5.1-012725	Soil		G	1/27/25	10:10	3	X	X	X								
4.	JPP-5.1-012725	Soil	C		1/27/25	10:10	7			X	X	X	X	X	X	X		
5.	JPP-4.5-012725	Soil		G	1/27/25	10:50	3	X	X	X								
6.	JPP-4.5-012725	Soil	C		1/27/25	10:50	7			X	X	X	X	X	X	X		
7.	JPP-16.2-012725	Soil		G	1/27/25	12:07	3	X	X	X								
8.	JPP-16.2-012725	Soil	C		1/27/25	12:09	7			X	X	X	X	X	X	X		
9.	JPP-20.2-012725	Soil		G	1/27/25	13:40	3	X	X	X								
10.	JPP-20.2-012725	Soil	C		1/27/25	13:40	7			X	X	X	X	X	X	X		

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER: 1. <i>RVM</i>	DATE/TIME: 1/28/2025	RECEIVED BY: 1. <i>[Signature]</i> 1-28-25	Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 3-7 °C
RELINQUISHED BY SAMPLER: 2. <i>[Signature]</i>	DATE/TIME:	RECEIVED BY: 2. <i>[Signature]</i>	Comments: Preserve extra sample jar if additional analysis is required.
RELINQUISHED BY SAMPLER: 3. <i>[Signature]</i>	DATE/TIME: 1259 1-28-25	RECEIVED BY: 3. <i>[Signature]</i>	

Page ____ of ____

CLIENT: ☐ Hand Delivered ☐ Other _____
CHEMTECH: ☐ Picked Up ☐ Field SamplingShipment Complete
☐ YES ☐ NO

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q1207	RUTW01	Order Date : 1/28/2025 11:40:00 AM	YG	Project Mgr :
Client Name : RU2 Engineering, LLC		Project Name : ~~SANDTWOBR-BMCR Bro~~ 02/03/25		Report Type : NYS ASP B
Client Contact : Rutu Manani		Receive DateTime : 1/28/2025 12:59:00 PM		EDD Type : Excel NY
Invoice Name : RU2 Engineering, LLC		Purchase Order :		Hard Copy Date :
Invoice Contact : Rutu Manani				Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q1207-01	JPP-2.1-012725	Solid	01/27/2025	09:05					
					VOCMS Group1		8260D		10 Bus. Days
Q1207-05	JPP-5.1-012725	Solid	01/27/2025	10:10					
					VOCMS Group1		8260D		10 Bus. Days
Q1207-09	JPP-4.5-012725	Solid	01/27/2025	10:50					
					VOCMS Group1		8260D		10 Bus. Days
Q1207-13	JPP-16.2-012725	Solid	01/27/2025	12:07					
					VOCMS Group1		8260D		10 Bus. Days
Q1207-17	JPP-20.2-012725	Solid	01/27/2025	13:40					
					VOCMS Group1		8260D		10 Bus. Days

Relinquished By:

Date / Time :

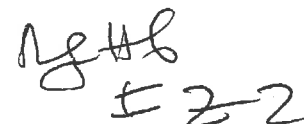

1-28-25 1447

Received By:

Date / Time :


1/28/25 1447

Storage Area : VOA Refridgerator Room


1246
E22