

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101923\
 Data File : BF135898.D
 Acq On : 19 Oct 2023 21:22
 Operator : CG\JU
 Sample : 04704-06DL 5X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R-4(5-10)DL

Quant Time: Oct 20 02:05:27 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 17 01:22:00 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/20/2023
 Supervised By :mohammad ahmed 10/20/2023

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.734	152	67929	20.000	ng	-0.01
21) Naphthalene-d8	8.016	136	221544	20.000	ng	0.00
39) Acenaphthene-d10	9.769	164	107193	20.000	ng	-0.02
64) Phenanthrene-d10	11.269	188	155264	20.000	ng	-0.01
76) Chrysene-d12	13.933	240	104560	20.000	ng	-0.02
86) Perylene-d12	15.415	264	122612	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	64318	15.223	ng	0.00
7) Phenol-d6	6.398	99	108347	20.552	ng	0.00
23) Nitrobenzene-d5	7.304	82	50420	12.517	ng	-0.01
42) 2,4,6-Tribromophenol	10.574	330	12108	11.771	ng	-0.01
45) 2-Fluorobiphenyl	9.092	172	126510	18.453	ng	-0.01
79) Terphenyl-d14	12.863	244	109152	19.332	ng	-0.02
Target Compounds						Qvalue
31) Naphthalene	8.033	128	121222	11.218	ng	99
37) 2-Methylnaphthalene	8.733	142	31624	4.442	ng	90
38) 1-Methylnaphthalene	8.828	142	45200	6.883	ng	99
49) Acenaphthylene	9.633	152	49663	5.071	ng	99
52) Acenaphthene	9.804	154	17214	2.933	ng	93
55) Dibenzofuran	9.980	168	24567	2.774	ng	# 96
58) Fluorene	10.322	166	45620	6.579	ng	100
71) Phenanthrene	11.292	178	245518	33.009	ng	99
72) Anthracene	11.345	178	70130	9.099	ng	96
75) Fluoranthene	12.492	202	253165	30.668	ng	97
78) Pyrene	12.721	202	285164	34.320	ng	99
81) Benzo(a)anthracene	13.927	228	106090	15.447	ng	98
83) Chrysene	13.962	228	102885	15.467	ng	98
87) Indeno(1,2,3-cd)pyrene	16.921	276	30924	4.629	ng	96
88) Benzo(b)fluoranthene	14.986	252	97896m	14.266	ng	
89) Benzo(k)fluoranthene	15.009	252	28940m	4.344	ng	
90) Benzo(a)pyrene	15.357	252	89070	13.803	ng	97
92) Benzo(g,h,i)perylene	17.380	276	31480	5.596	ng	97

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

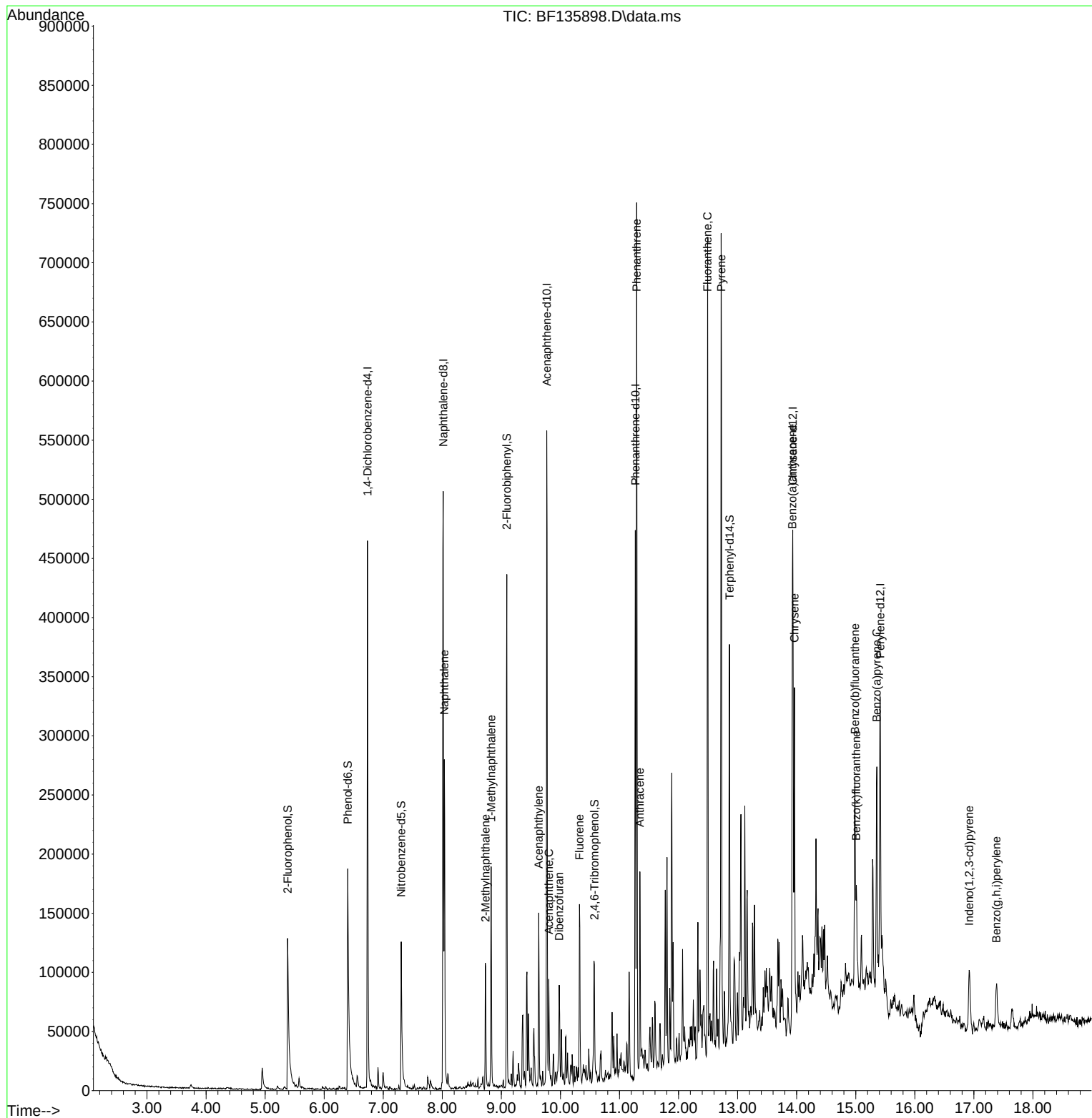
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101923\
Data File : BF135898.D
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Misc :
ALS Vial : 20 Sample Multiplier: 1

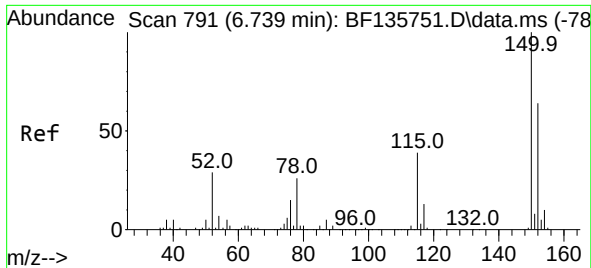
Instrument :
BNA_F
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R-4(5-10)DL

Quant Time: Oct 20 02:05:27 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101323.M
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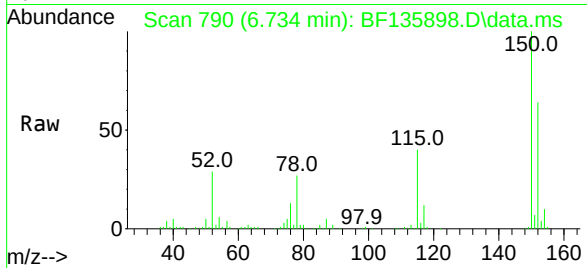
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.734 min Scan# 791
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

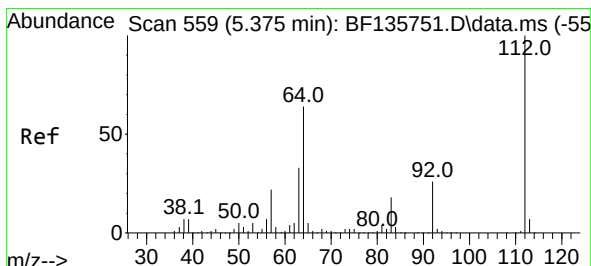
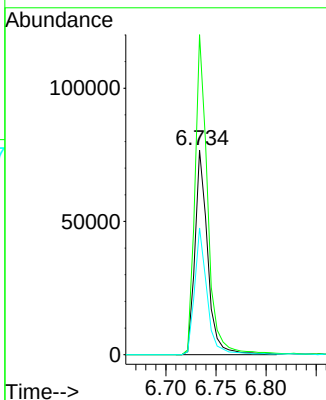
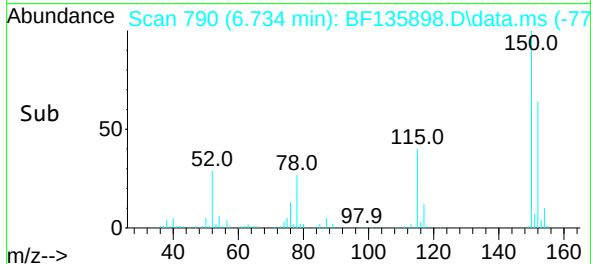
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



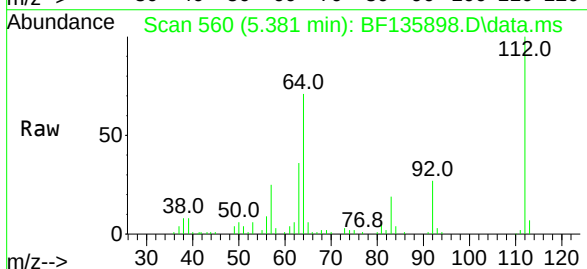
Tgt Ion:152 Resp: 67929
Ion Ratio Lower Upper
152 100
150 156.5 124.5 186.7
115 62.0 49.0 73.4

Manual Integrations
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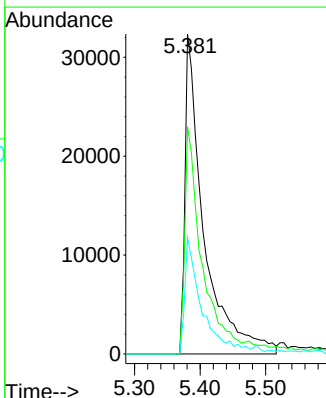
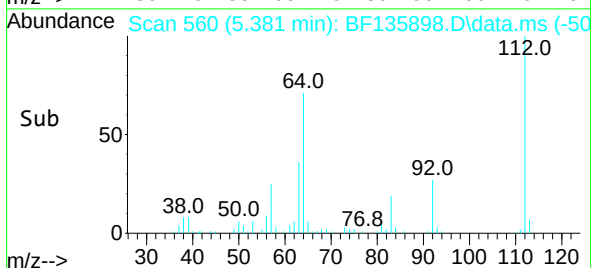
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023

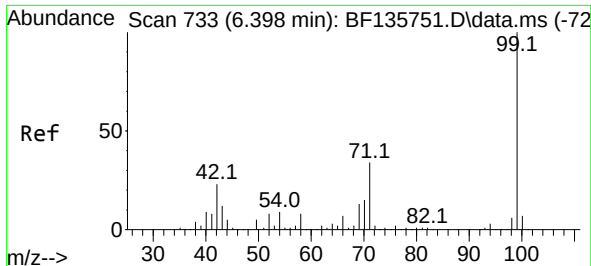


#5
2-Fluorophenol
Concen: 15.223 ng
RT: 5.381 min Scan# 560
Delta R.T. 0.006 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22



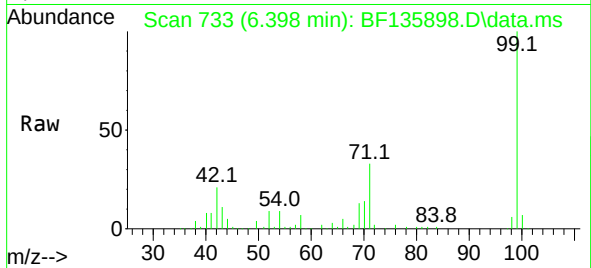
Tgt Ion:112 Resp: 64318
Ion Ratio Lower Upper
112 100
64 71.0 51.2 76.8
63 36.4 26.1 39.1





#7
Phenol-d6
Concen: 20.552 ng
RT: 6.398 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

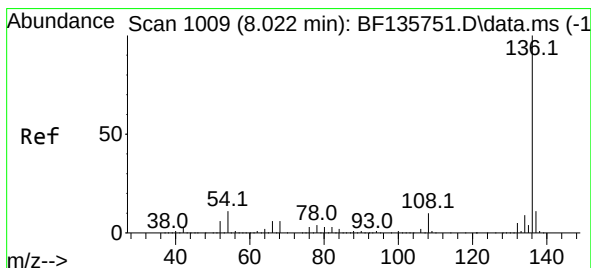
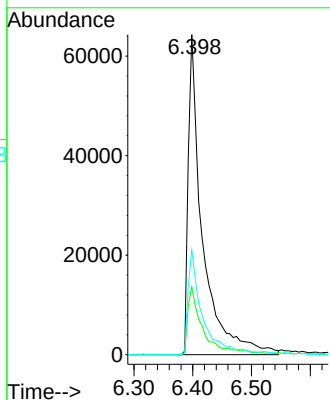
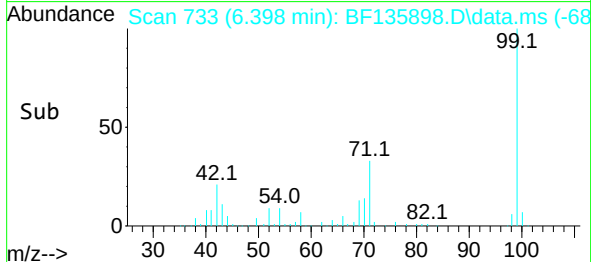
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



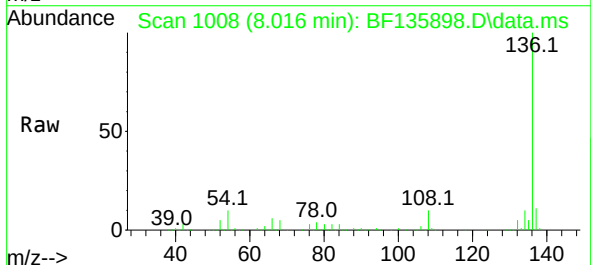
Tgt Ion: 99 Resp: 10834
Ion Ratio Lower Upper
99 100
42 21.2 18.4 27.6
71 32.6 27.2 40.8

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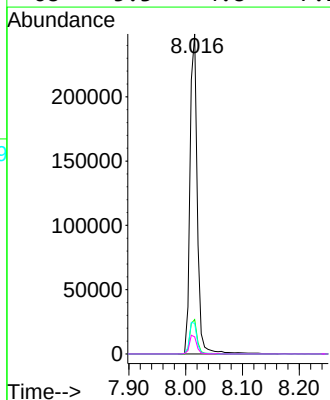
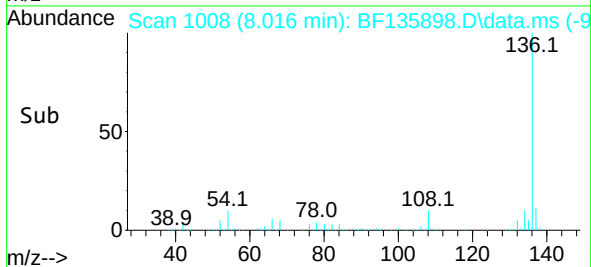
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023

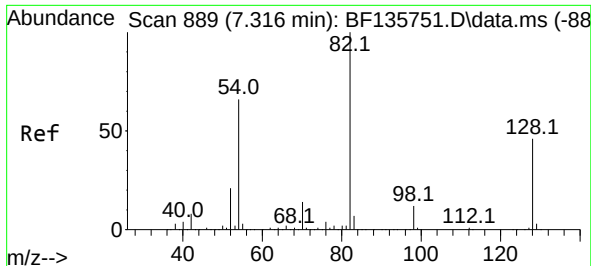


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22



Tgt Ion:136 Resp: 221544
Ion Ratio Lower Upper
136 100
137 10.8 8.6 12.8
54 9.6 8.5 12.7
68 5.3 4.8 7.2





#23

Nitrobenzene-d5

Concen: 12.517 ng

RT: 7.304 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL

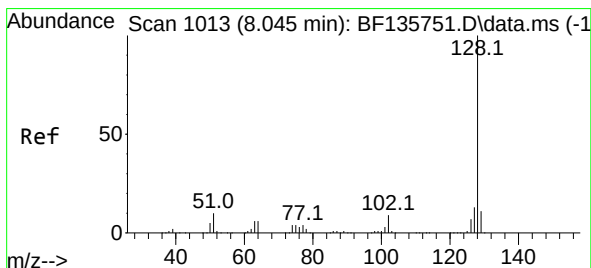
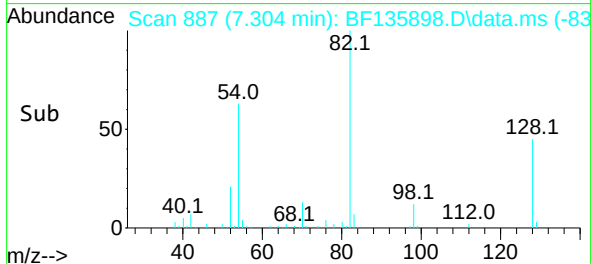
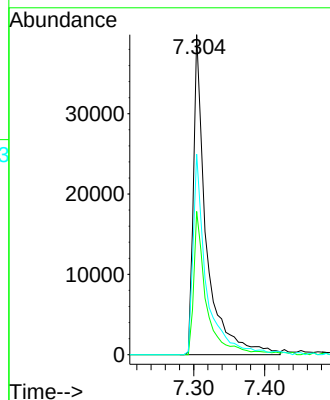
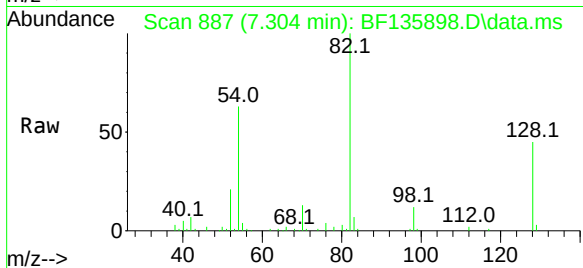
Tgt Ion: 82 Resp: 50420
 Ion Ratio Lower Upper
 82 100
 128 44.8 37.0 55.6
 54 62.7 52.8 79.2

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Supervised By :mohammad ahmed 10/20/2023



#31

Naphthalene

Concen: 11.218 ng

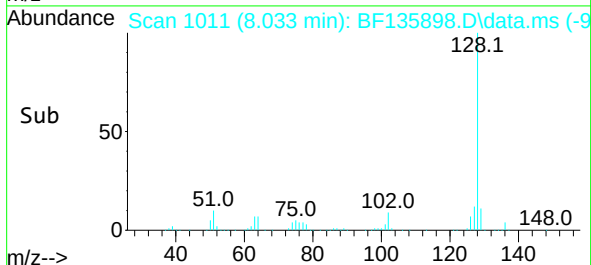
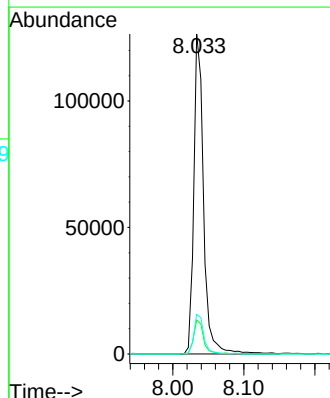
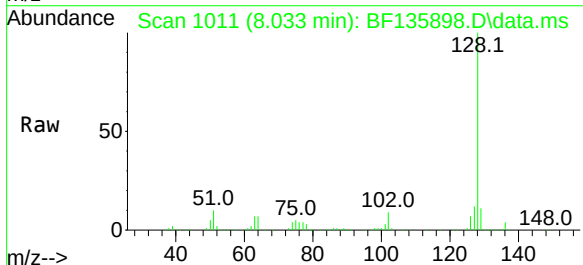
RT: 8.033 min Scan# 1011

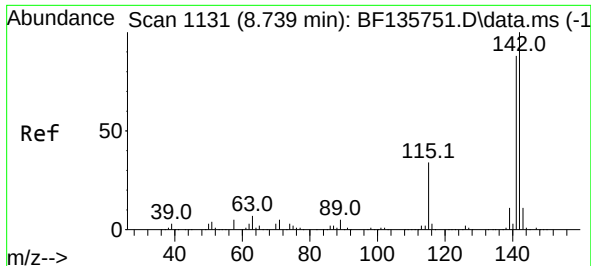
Delta R.T. -0.012 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

Tgt Ion:128 Resp: 121222
 Ion Ratio Lower Upper
 128 100
 129 10.6 8.7 13.1
 127 12.4 10.2 15.4





#37

2-Methylnaphthalene

Concen: 4.442 ng

RT: 8.733 min Scan# 1131

Delta R.T. -0.006 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL

Tgt Ion:142 Resp: 31624

Ion Ratio Lower Upper

142 100

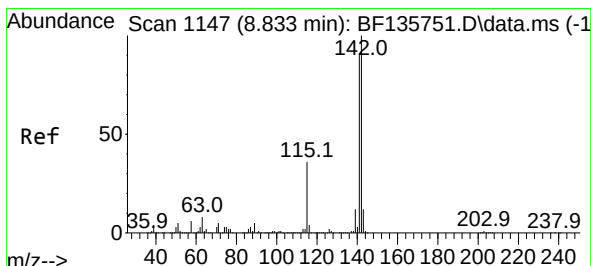
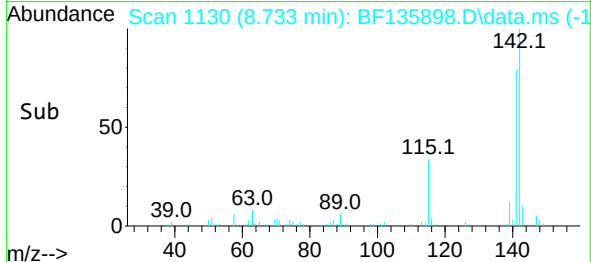
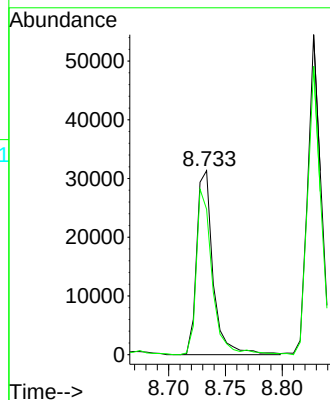
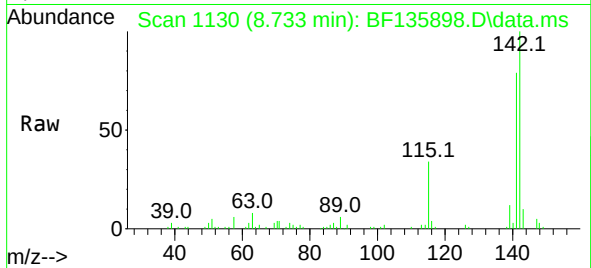
141 79.0 70.6 105.8

Manual Integrations

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Supervised By :mohammad ahmed 10/20/2023



#38

1-Methylnaphthalene

Concen: 6.883 ng

RT: 8.828 min Scan# 1146

Delta R.T. -0.012 min

Lab File: BF135898.D

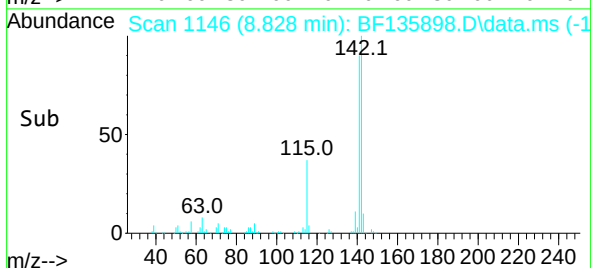
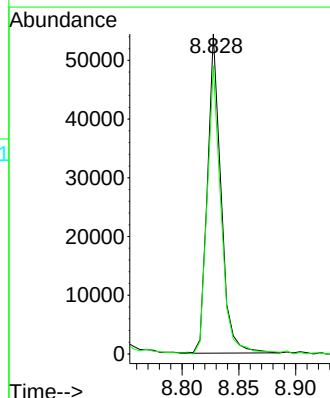
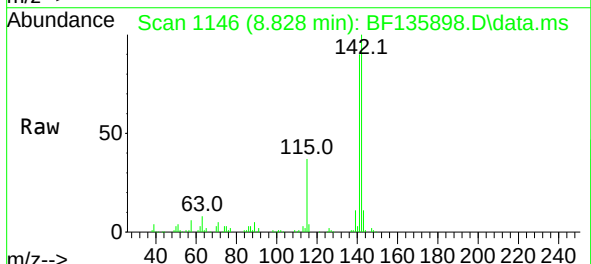
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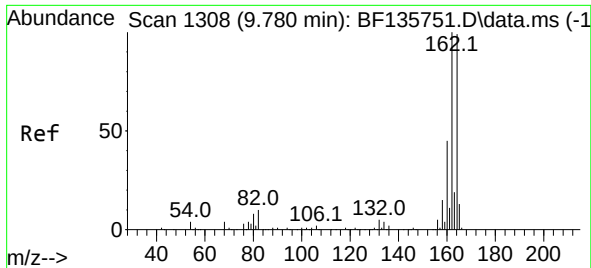
Tgt Ion:142 Resp: 45200

Ion Ratio Lower Upper

142 100

141 90.0 72.7 109.1





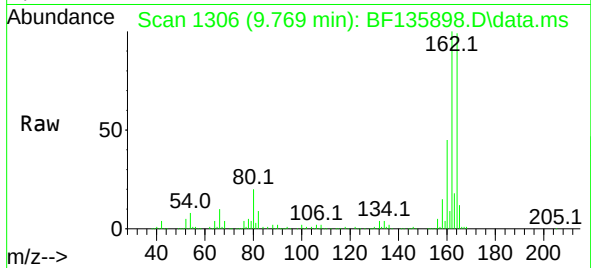
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.769 min Scan# 11
Delta R.T. -0.018 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL



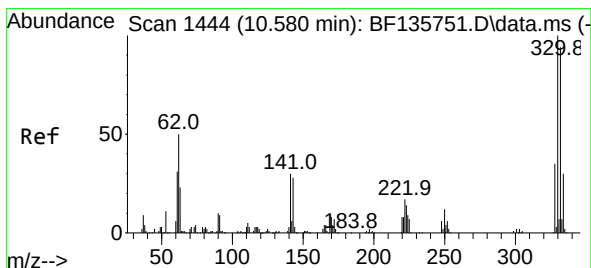
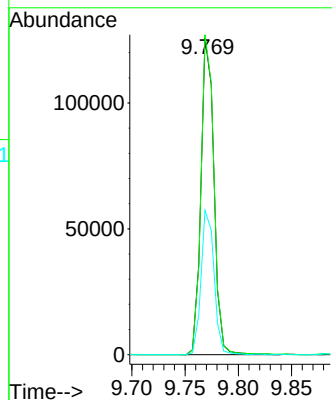
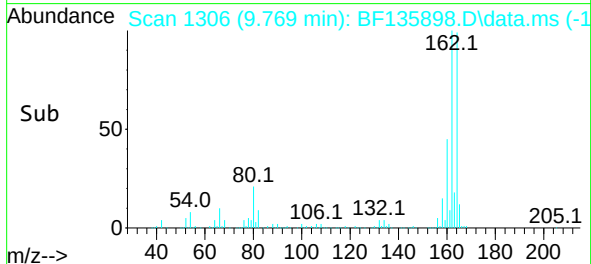
Tgt Ion:164 Resp: 10719
Ion Ratio Lower Upper
164 100
162 101.0 80.8 121.2
160 45.6 36.6 54.8

Manual Integrations

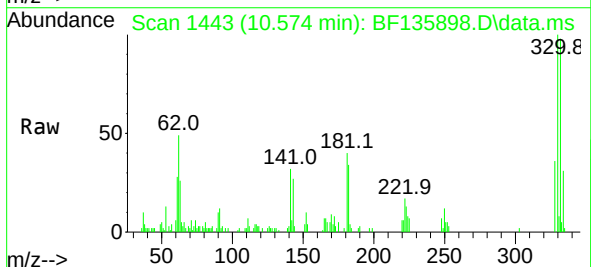
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Reviewed By :Yogesh Patel 10/20/2023

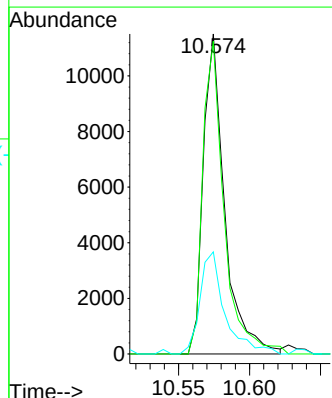
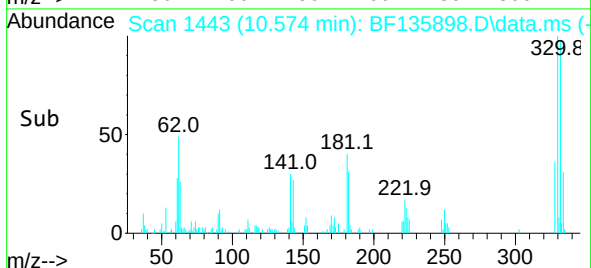
Supervised By :mohammad ahmed 10/20/2023

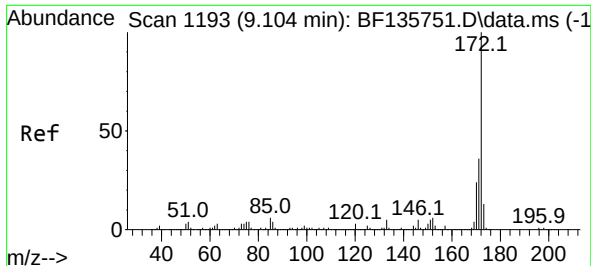


#42
2,4,6-Tribromophenol
Concen: 11.771 ng
RT: 10.574 min Scan# 1443
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22



Tgt Ion:330 Resp: 12108
Ion Ratio Lower Upper
330 100
332 97.1 75.0 112.4
141 37.1 25.8 38.6





#45

2-Fluorobiphenyl

Concen: 18.453 ng

RT: 9.092 min Scan# 1193

Delta R.T. -0.012 min

Lab File: BF135898.D

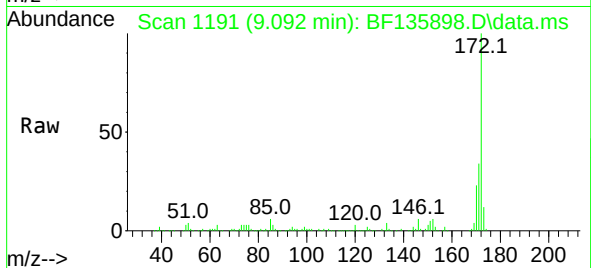
Acq: 19 Oct 2023 21:22

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL



Tgt Ion:172 Resp: 126510

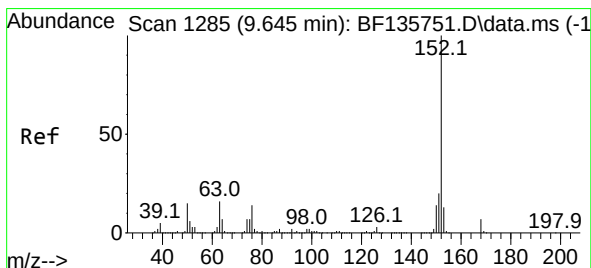
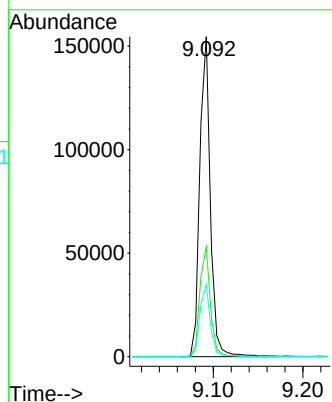
Ion	Ratio	Lower	Upper
172	100		
171	34.3	28.4	42.6
170	22.5	18.8	28.2

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Supervised By :mohammad ahmed 10/20/2023



#49

Acenaphthylene

Concen: 5.071 ng

RT: 9.633 min Scan# 1283

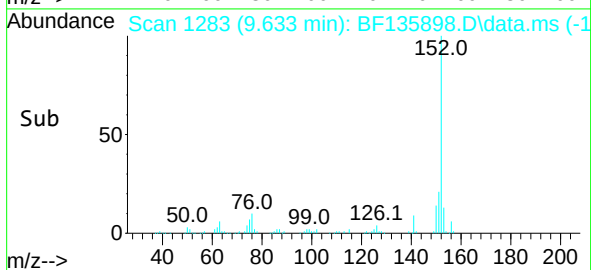
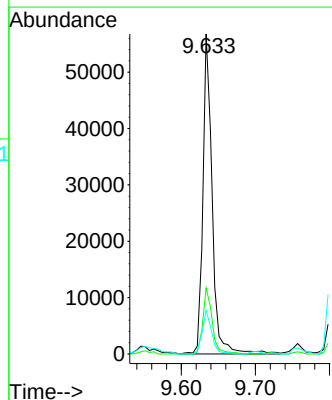
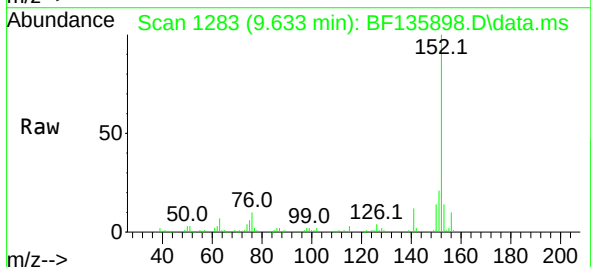
Delta R.T. -0.012 min

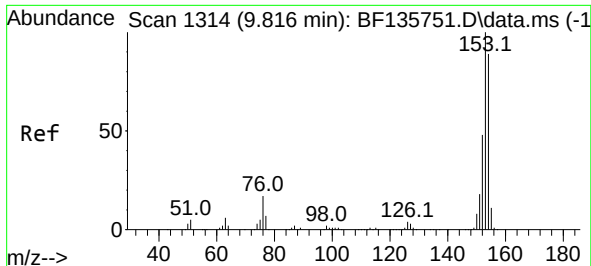
Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

Tgt Ion:152 Resp: 49663

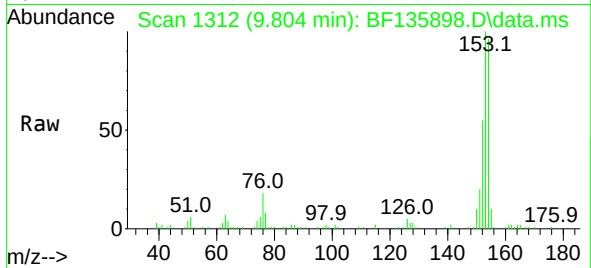
Ion	Ratio	Lower	Upper
152	100		
151	20.6	16.2	24.2
153	13.6	10.2	15.4





#52
Acenaphthene
Concen: 2.933 ng
RT: 9.804 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

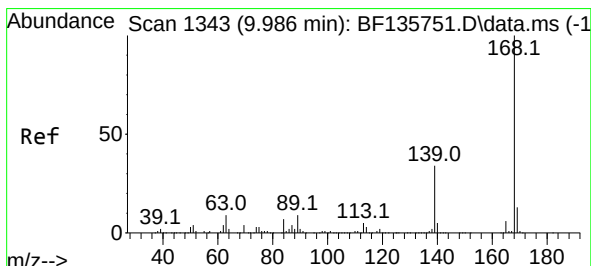
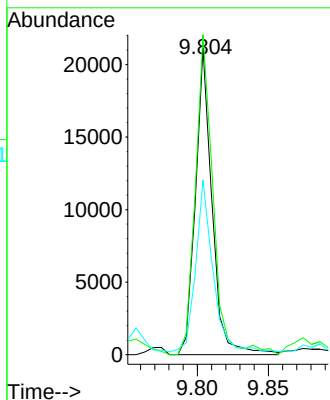
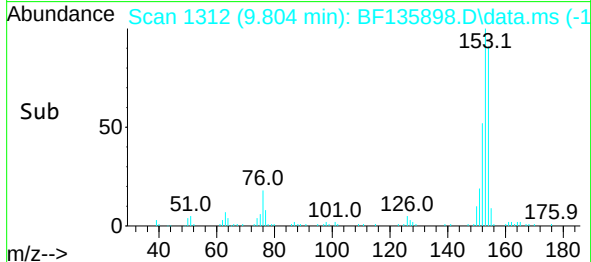
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



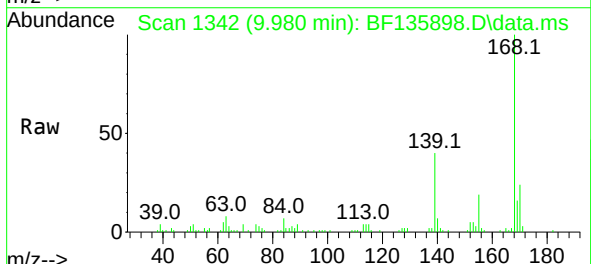
Tgt Ion:154 Resp: 17214
Ion Ratio Lower Upper
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153 104.3 90.1 135.1
152 56.9 43.1 64.7

Manual Integrations
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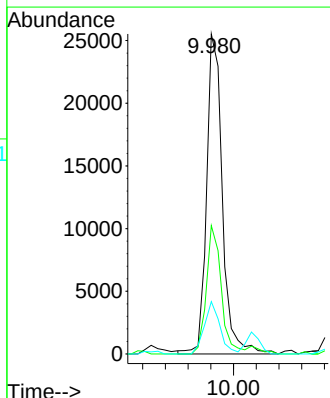
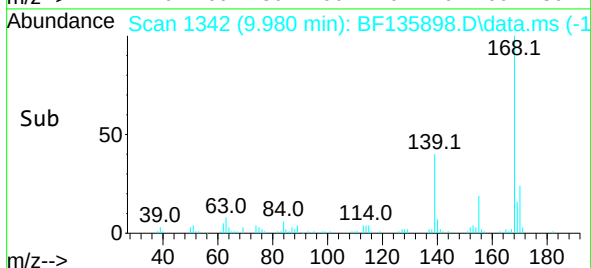
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023

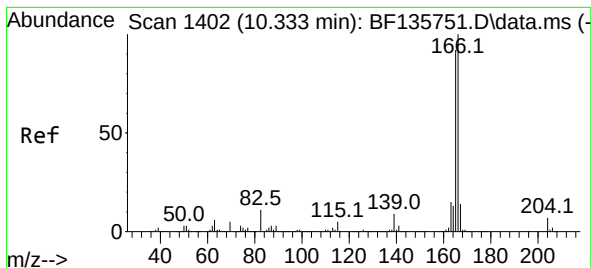


#55
Dibenzofuran
Concen: 2.774 ng
RT: 9.980 min Scan# 1342
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22



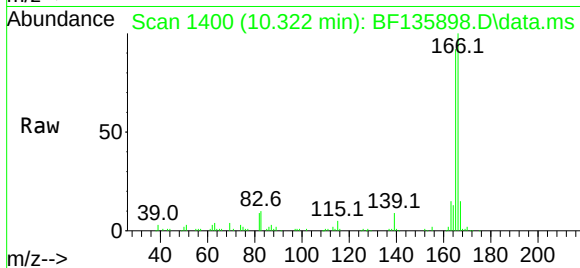
Tgt Ion:168 Resp: 24567
Ion Ratio Lower Upper
168 100
139 40.1 31.0 46.4
169 16.3 10.7 16.1#





#58
Fluorene
Concen: 6.579 ng
RT: 10.322 min Scan# 1402
Delta R.T. -0.018 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

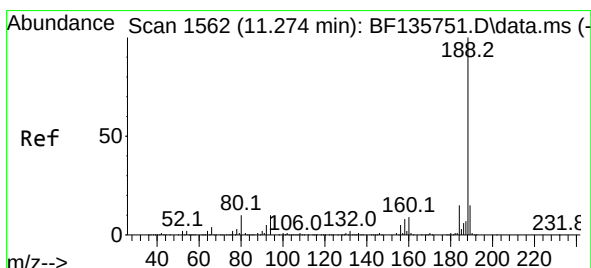
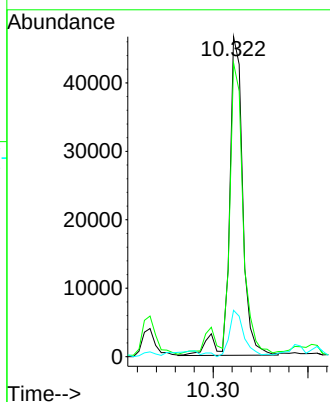
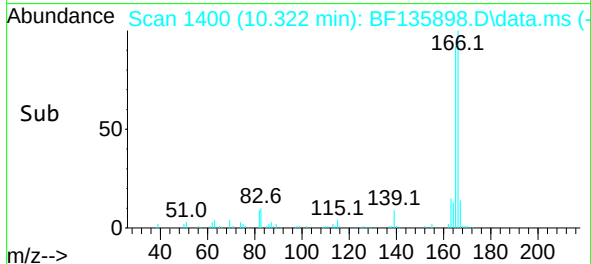
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



Tgt Ion:166 Resp: 45620
Ion Ratio Lower Upper
166 100
165 91.7 73.4 110.0
167 14.5 11.0 16.6

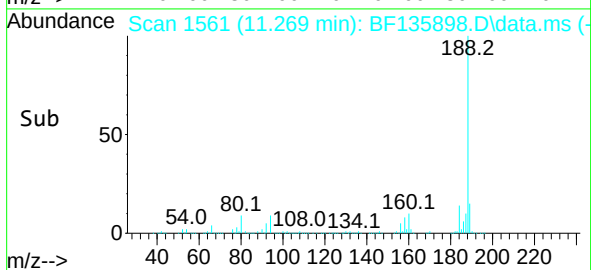
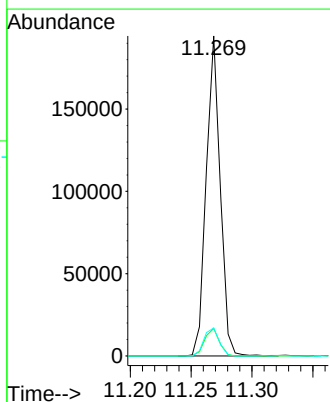
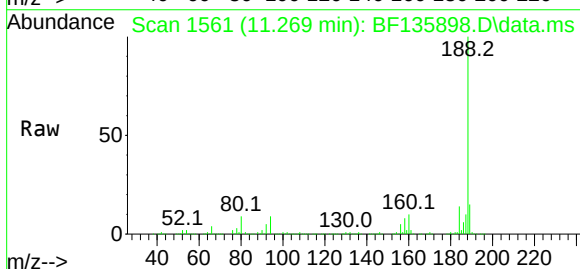
Manual Integrations
APPROVED

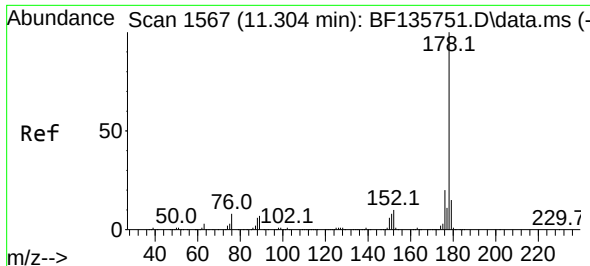
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 1561
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

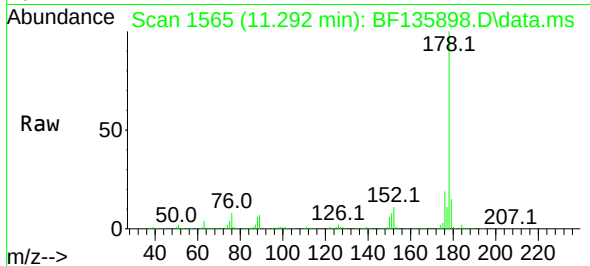
Tgt Ion:188 Resp: 155264
Ion Ratio Lower Upper
188 100
94 8.6 8.0 12.0
80 8.7 8.3 12.5





#71
Phenanthrene
Concen: 33.009 ng
RT: 11.292 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

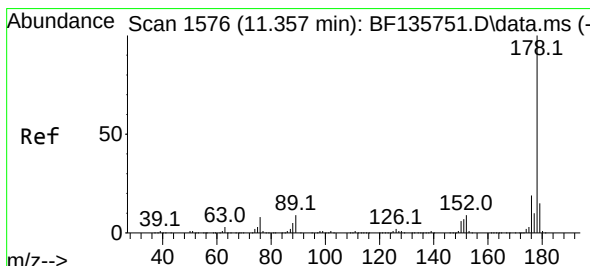
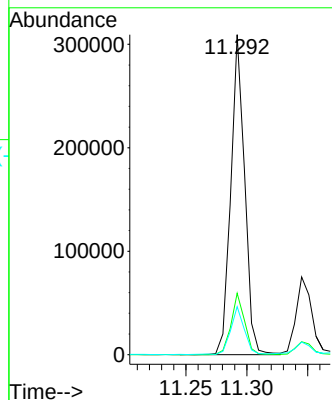
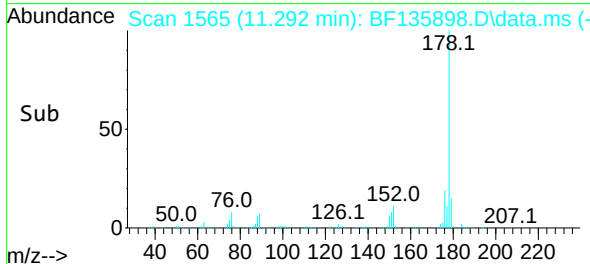
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



Tgt Ion:178 Resp: 245518
Ion Ratio Lower Upper
178 100
176 19.2 16.0 24.0
179 15.0 12.2 18.4

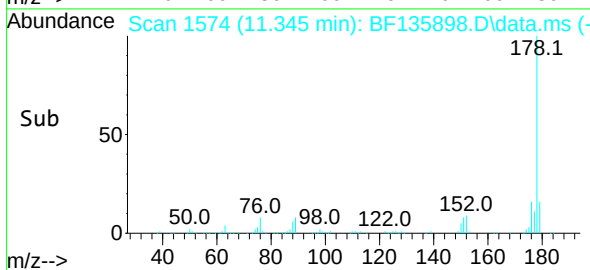
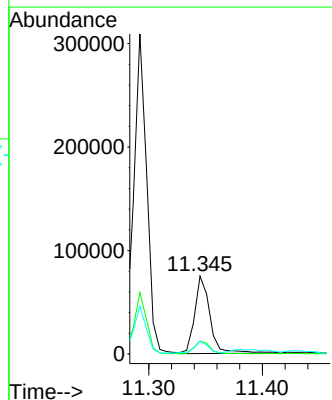
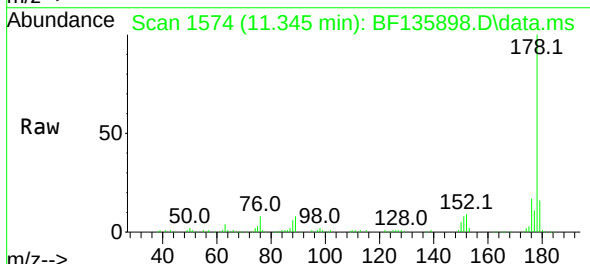
Manual Integrations
APPROVED

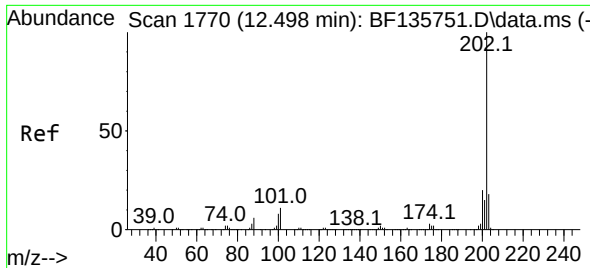
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023



#72
Anthracene
Concen: 9.099 ng
RT: 11.345 min Scan# 1574
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

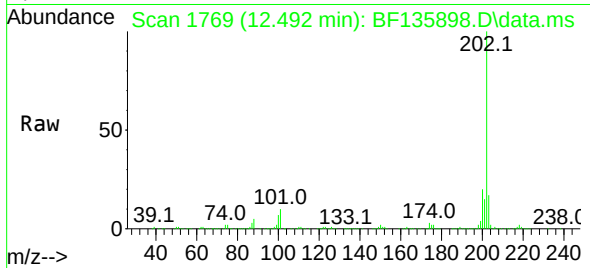
Tgt Ion:178 Resp: 70130
Ion Ratio Lower Upper
178 100
176 16.6 15.1 22.7
179 16.2 12.3 18.5





#75
Fluoranthene
Concen: 30.668 ng
RT: 12.492 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

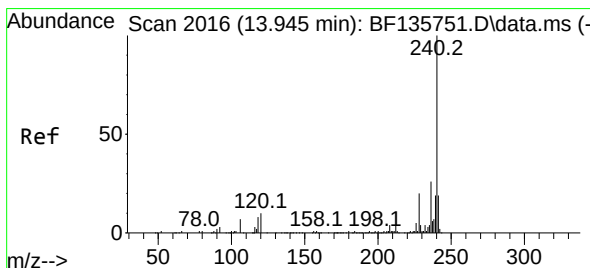
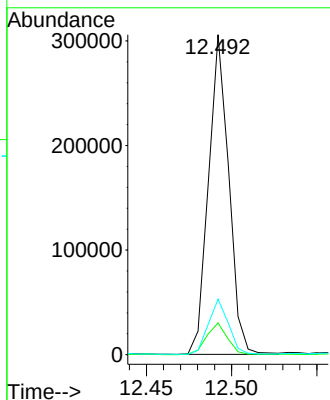
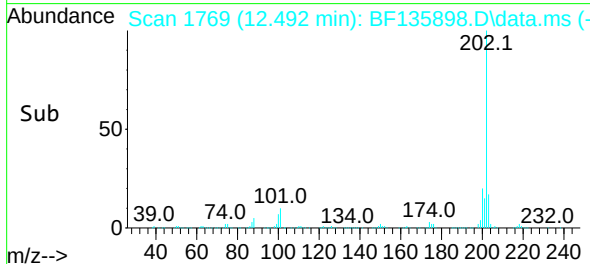
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



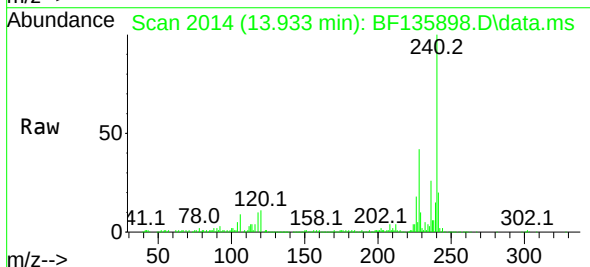
Tgt Ion:202 Resp: 25316
Ion Ratio Lower Upper
202 100
101 9.9 0.0 31.5
203 17.3 0.0 38.3

Manual Integrations
APPROVED

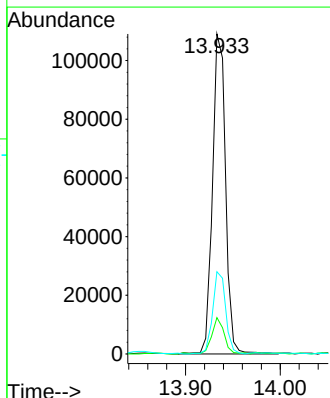
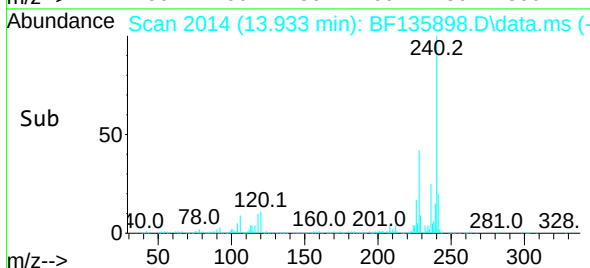
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023

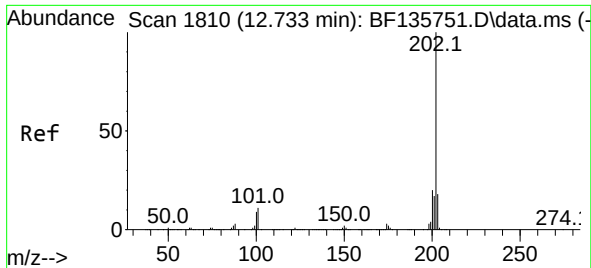


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.933 min Scan# 2014
Delta R.T. -0.018 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22



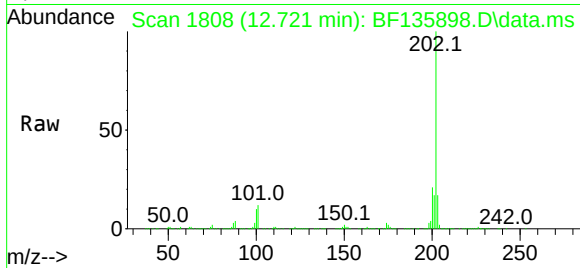
Tgt Ion:240 Resp: 104560
Ion Ratio Lower Upper
240 100
120 11.4 8.2 12.2
236 25.7 21.2 31.8





#78
 Pyrene
 Concen: 34.320 ng
 RT: 12.721 min Scan# 1808
 Delta R.T. -0.012 min
 Lab File: BF135898.D
 Acq: 19 Oct 2023 21:22

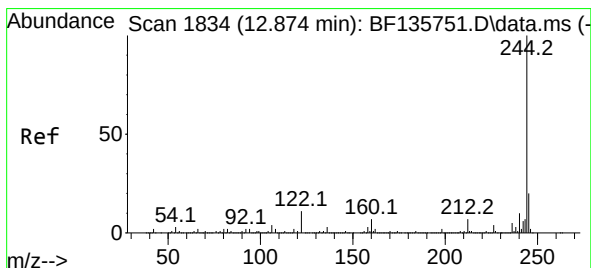
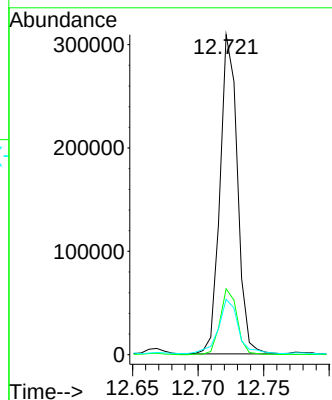
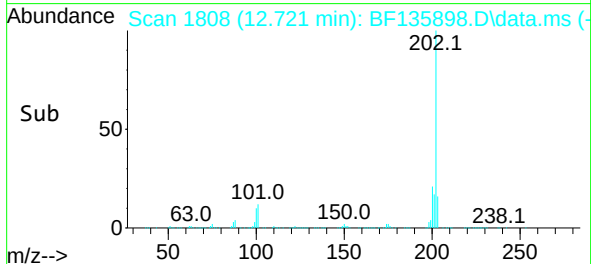
Instrument :
 BNA_F
 ClientSampleId :
 R-4(5-10)DL



Tgt Ion:202 Resp: 285164
 Ion Ratio Lower Upper
 202 100
 200 20.6 16.1 24.1
 203 17.3 14.2 21.2

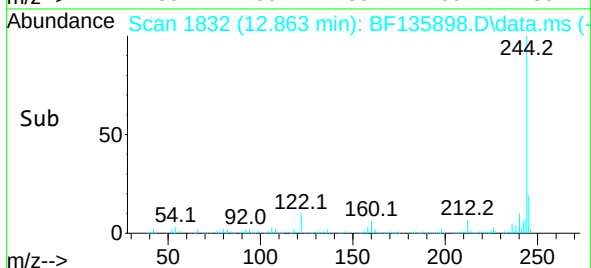
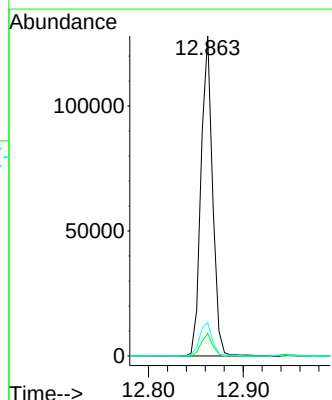
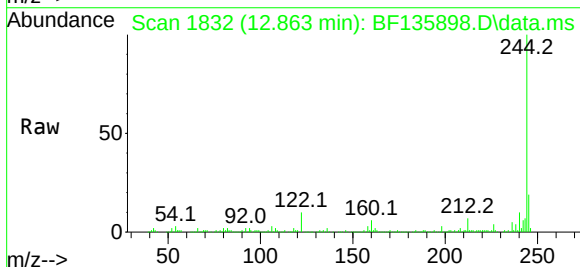
Manual Integrations
 APPROVED

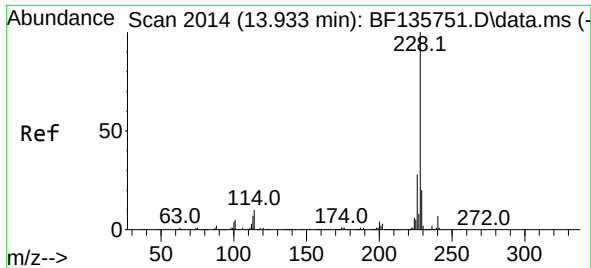
Reviewed By :Yogesh Patel 10/20/2023
 Supervised By :mohammad ahmed 10/20/2023



#79
 Terphenyl-d14
 Concen: 19.332 ng
 RT: 12.863 min Scan# 1832
 Delta R.T. -0.018 min
 Lab File: BF135898.D
 Acq: 19 Oct 2023 21:22

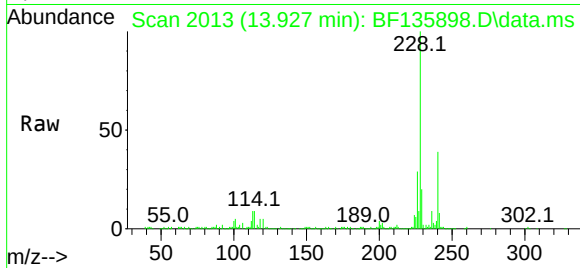
Tgt Ion:244 Resp: 109152
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.6 8.4
 122 10.4 9.0 13.6





#81
Benzo(a)anthracene
Concen: 15.447 ng
RT: 13.927 min Scan# 2013
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

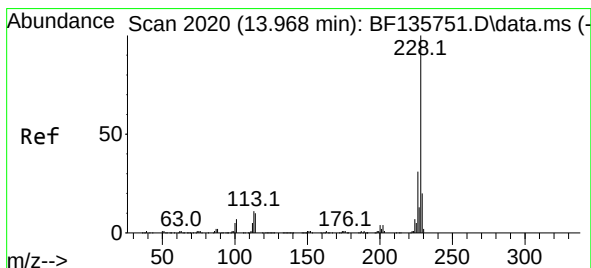
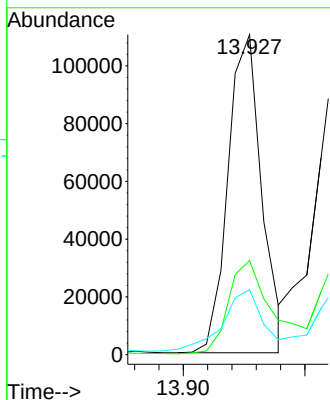
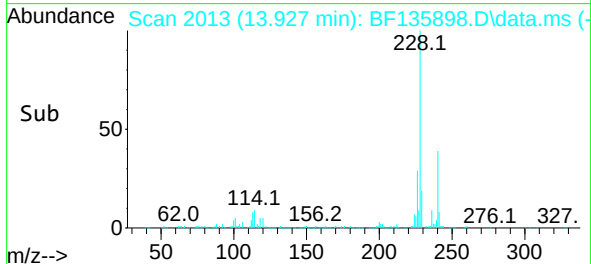
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



Tgt Ion:228 Resp: 106090
Ion Ratio Lower Upper
228 100
226 29.4 22.2 33.2
229 20.3 16.1 24.1

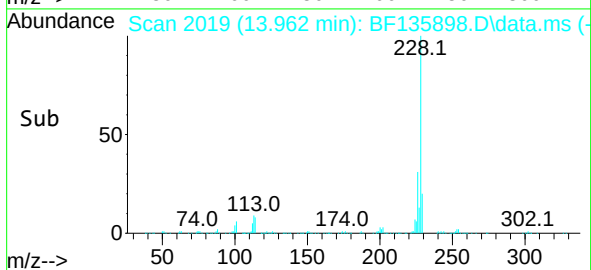
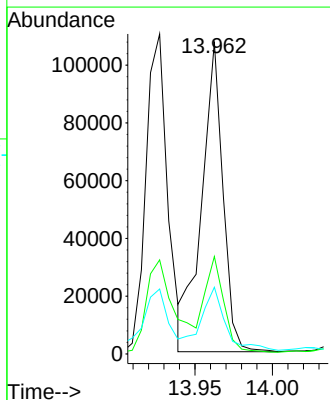
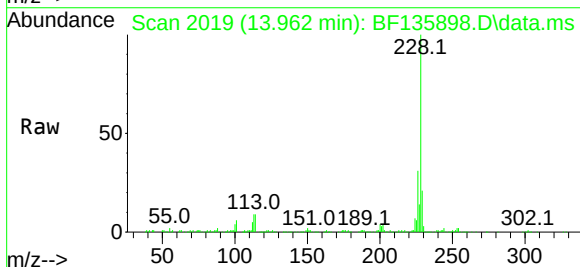
Manual Integrations
APPROVED

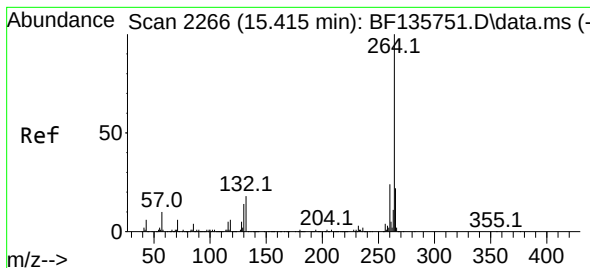
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023



#83
Chrysene
Concen: 15.467 ng
RT: 13.962 min Scan# 2019
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

Tgt Ion:228 Resp: 102885
Ion Ratio Lower Upper
228 100
226 31.2 24.4 36.6
229 21.3 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.415 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL

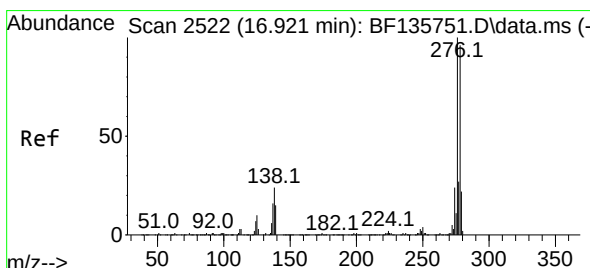
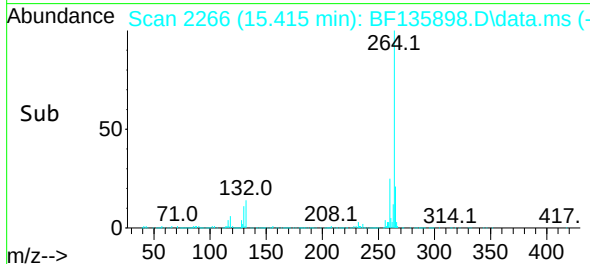
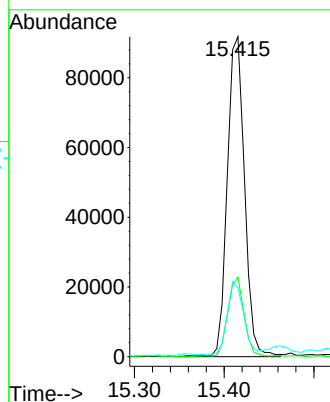
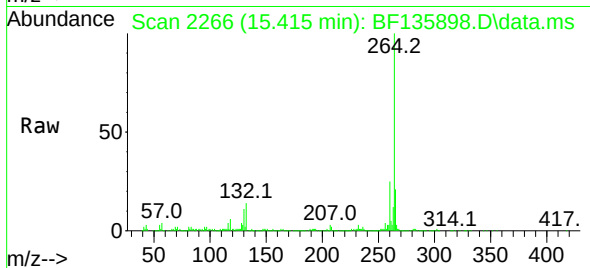
Tgt Ion:	264	Resp:	12261
Ion Ratio	Lower	Upper	
264	100		
260	24.8	19.2	28.8
265	21.5	17.4	26.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/20/2023

Supervised By :mohammad ahmed 10/20/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 4.629 ng

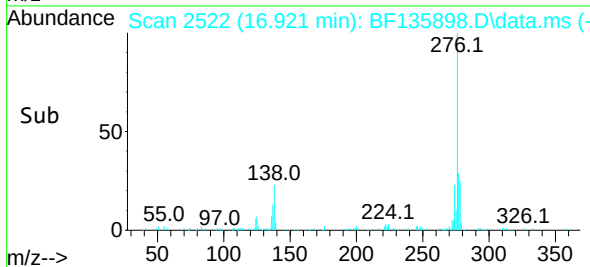
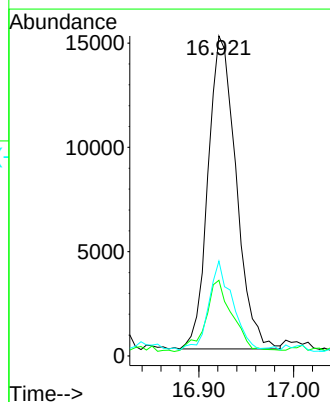
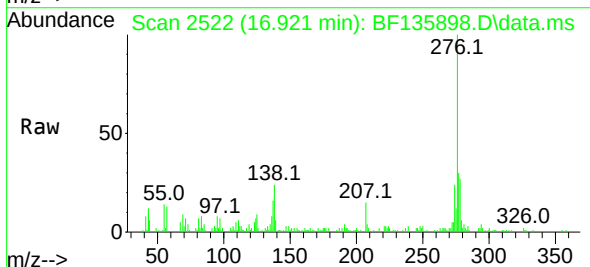
RT: 16.921 min Scan# 2522

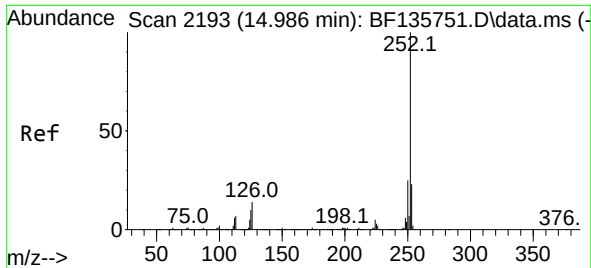
Delta R.T. -0.012 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

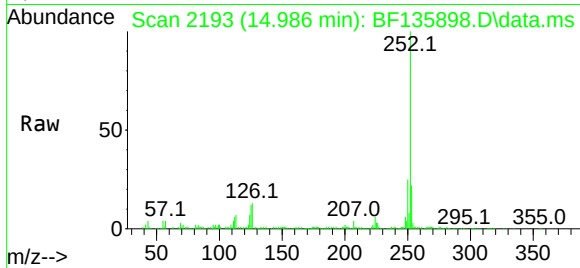
Tgt Ion:	276	Resp:	30924
Ion Ratio	Lower	Upper	
276	100		
138	21.7	19.8	29.6
277	25.9	20.2	30.4





#88
Benzo(b)fluoranthene
Concen: 14.266 ng m
RT: 14.986 min Scan# 2193
Delta R.T. -0.006 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22

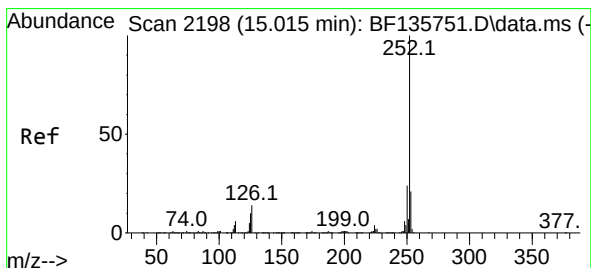
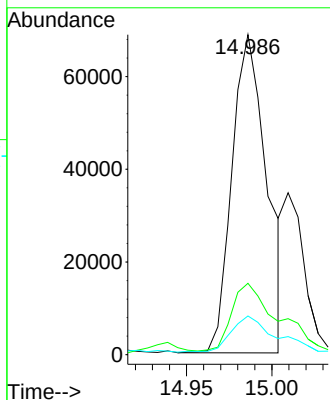
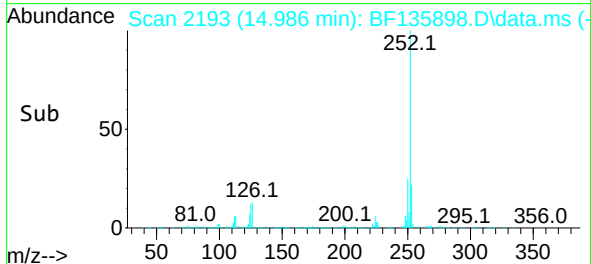
Instrument :
BNA_F
ClientSampleId :
R-4(5-10)DL



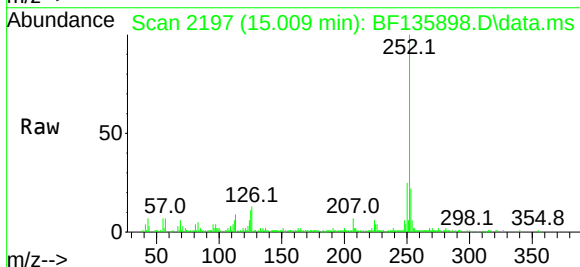
Tgt Ion:252 Resp: 97890
Ion Ratio Lower Upper
252 100
253 22.3 18.2 27.2
125 12.1 8.2 12.2

Manual Integrations
APPROVED

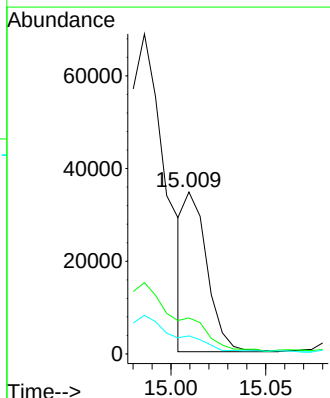
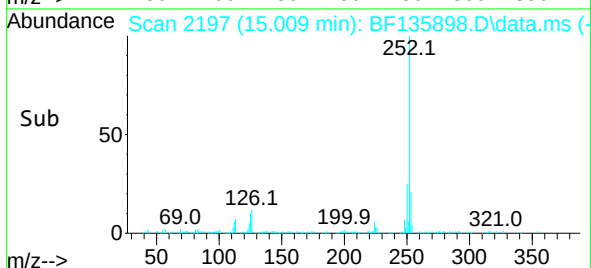
Reviewed By :Yogesh Patel 10/20/2023
Supervised By :mohammad ahmed 10/20/2023

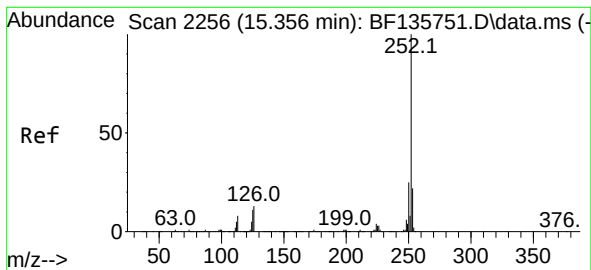


#89
Benzo(k)fluoranthene
Concen: 4.344 ng m
RT: 15.009 min Scan# 2197
Delta R.T. -0.012 min
Lab File: BF135898.D
Acq: 19 Oct 2023 21:22



Tgt Ion:252 Resp: 28940
Ion Ratio Lower Upper
252 100
253 22.2 17.4 26.0
125 11.2 8.3 12.5





#90

Benzo(a)pyrene

Concen: 13.803 ng

RT: 15.357 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

Instrument :

BNA_F

ClientSampleId :

R-4(5-10)DL

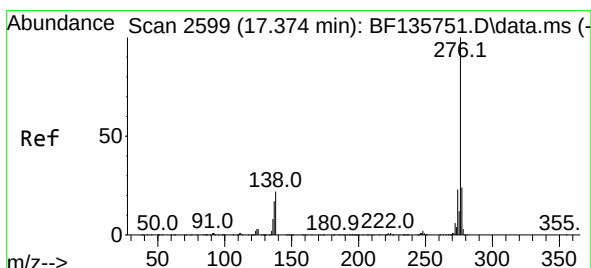
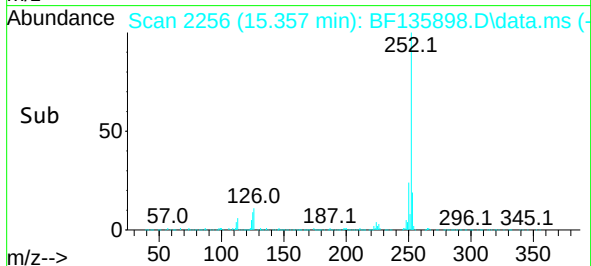
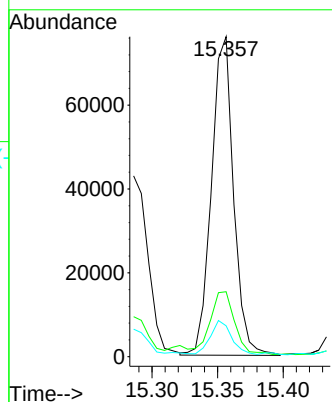
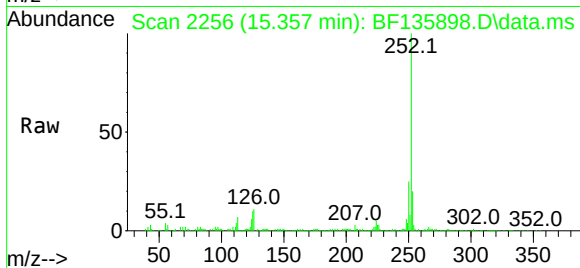
Tgt Ion:	252	Resp:	89070
Ion Ratio	Lower	Upper	
252	100		
253	20.3	17.4	26.2
125	9.6	8.8	13.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/20/2023

Supervised By :mohammad ahmed 10/20/2023



#92

Benzo(g,h,i)perylene

Concen: 5.596 ng

RT: 17.380 min Scan# 2600

Delta R.T. -0.006 min

Lab File: BF135898.D

Acq: 19 Oct 2023 21:22

Tgt Ion:	276	Resp:	31480
Ion Ratio	Lower	Upper	
276	100		
277	26.4	19.4	29.2
138	22.3	17.3	25.9

