

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100623\
 Data File : BF135638.D
 Acq On : 06 Oct 2023 20:01
 Operator : CG\JU
 Sample : 04622-02DL 100X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 I-4(0-5)DL

Quant Time: Oct 07 01:52:01 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 04 17:06:20 2023
 Response via : Initial Calibration

Manual Integrations APPROVED

Reviewed By :Yogesh Patel 10/08/2023
 Supervised By :mohammad ahmed 10/08/2023

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.739	152	124367	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	463898	20.000	ng	# 0.00
39) Acenaphthene-d10	9.774	164	196689	20.000	ng	0.00
64) Phenanthrene-d10	11.268	188	309521	20.000	ng	0.00
76) Chrysene-d12	13.933	240	217524	20.000	ng	0.00
86) Perylene-d12	15.398	264	203198	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.422	112	5175	0.677	ng	0.05
7) Phenol-d6	6.434	99	7721	0.794	ng	0.05
23) Nitrobenzene-d5	7.322	82	5420	0.635	ng	0.01
42) 2,4,6-Tribromophenol	10.580	330	1339	0.685	ng	0.01
45) 2-Fluorobiphenyl	9.098	172	12483	0.958	ng	0.00
79) Terphenyl-d14	12.863	244	9890	0.705	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.039	128	786164	34.880	ng	99
37) 2-Methylnaphthalene	8.733	142	212694	14.038	ng	100
38) 1-Methylnaphthalene	8.833	142	144002	10.152	ng	97
46) 1,1'-Biphenyl	9.198	154	55546	3.675	ng	97
49) Acenaphthylene	9.639	152	53334	2.926	ng	97
52) Acenaphthene	9.804	154	46046	4.277	ng	98
55) Dibenzofuran	9.980	168	133083	8.100	ng	98
58) Fluorene	10.327	166	192708	15.257	ng	97
71) Phenanthrene	11.292	178	720959	49.249	ng	99
72) Anthracene	11.345	178	197371	13.117	ng	99
73) Carbazole	11.510	167	51661	3.771	ng	98
75) Fluoranthene	12.492	202	528221	34.629	ng	99
78) Pyrene	12.721	202	477307	23.047	ng	99
81) Benzo(a)anthracene	13.921	228	221935	15.800	ng	98
83) Chrysene	13.957	228	174433	12.491	ng	98
87) Indeno(1,2,3-cd)pyrene	16.886	276	56136	4.213	ng	99
88) Benzo(b)fluoranthene	14.974	252	162674m	14.789	ng	
89) Benzo(k)fluoranthene	14.998	252	48788m	4.490	ng	
90) Benzo(a)pyrene	15.339	252	119387	11.381	ng	99
92) Benzo(g,h,i)perylene	17.339	276	52174	4.583	ng	95

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

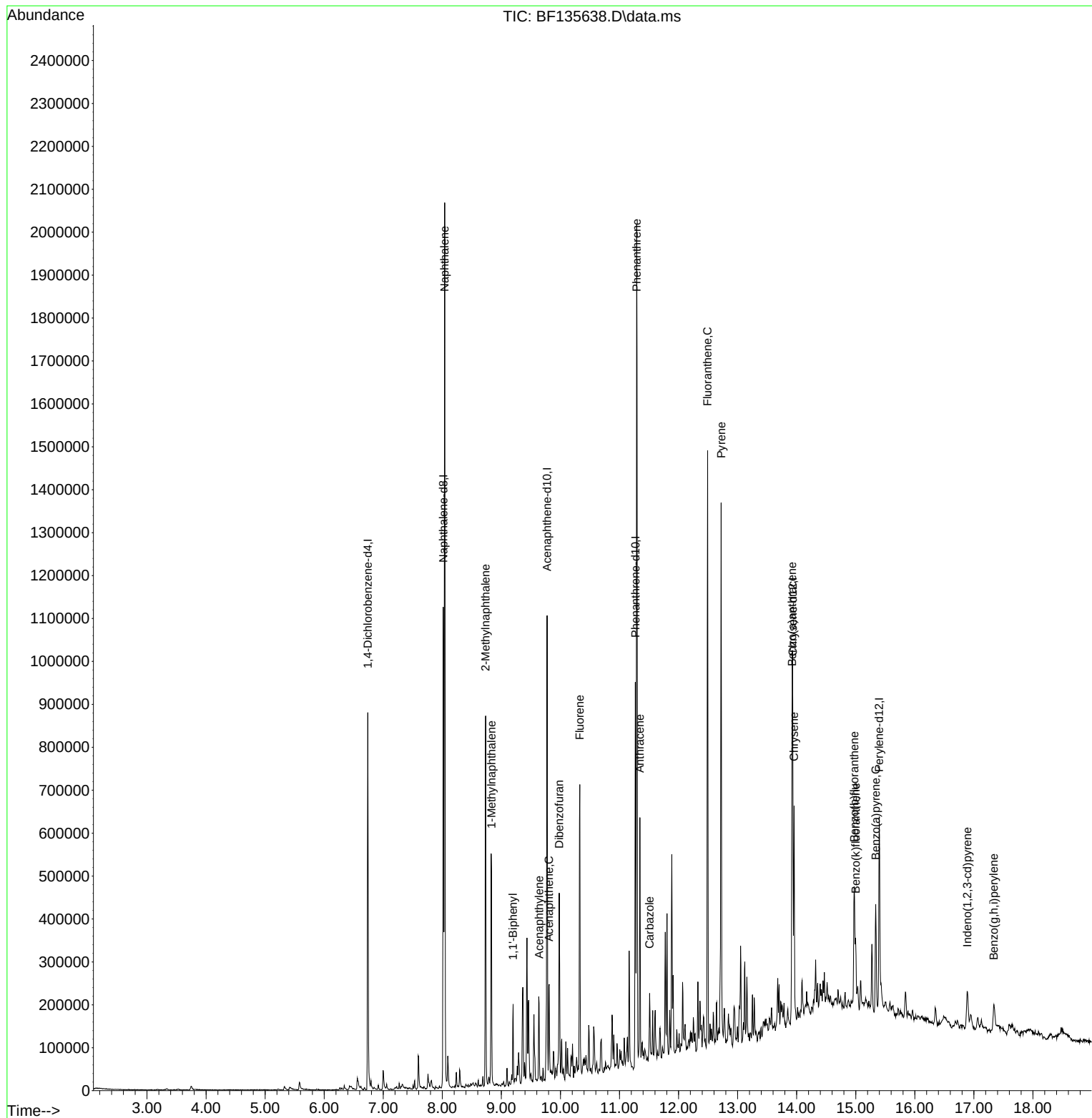
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF100623\
Data File : BF135638.D
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ALS Vial : 20 Sample Multiplier: 1

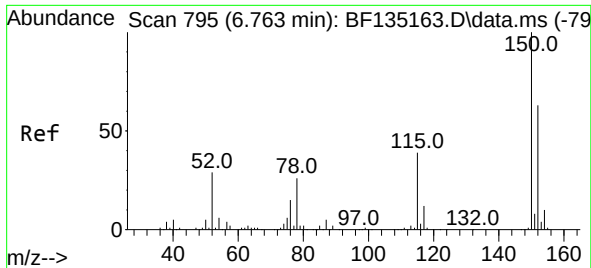
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)DL

Quant Time: Oct 07 01:52:01 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
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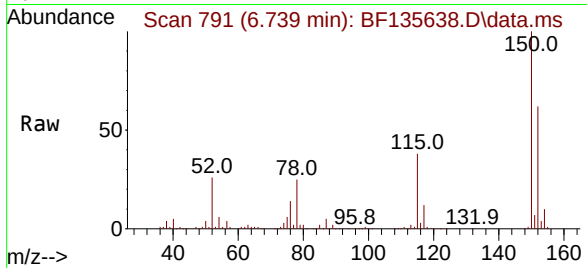
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.739 min Scan# 795
Delta R.T. 0.000 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

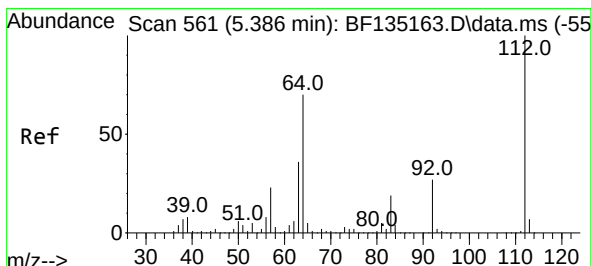
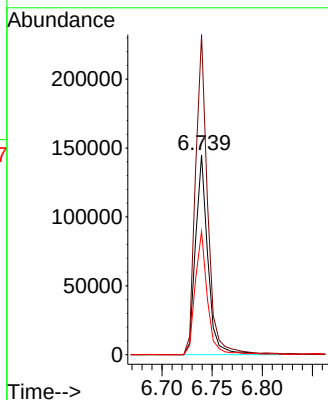
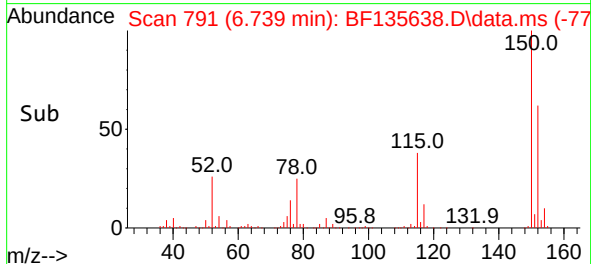
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)DL



Tgt Ion:152 Resp: 12436
Ion Ratio Lower Upper
152 100
150 160.2 127.8 191.6
115 61.7 49.8 74.8

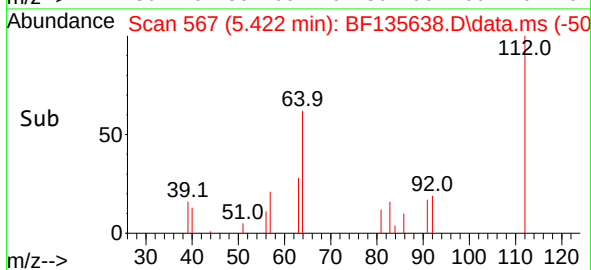
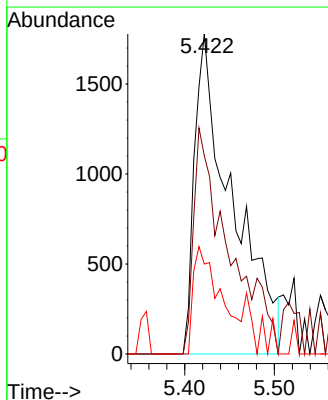
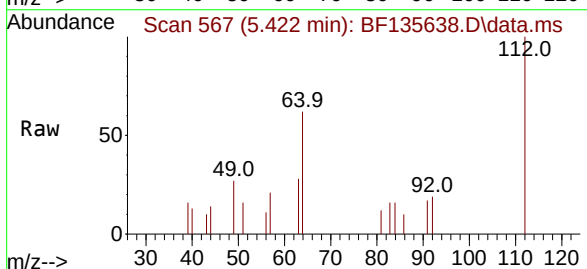
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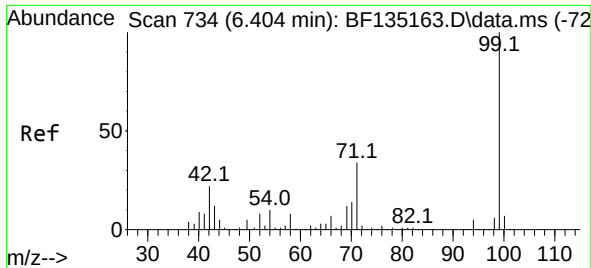
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#5
2-Fluorophenol
Concen: 0.677 ng
RT: 5.422 min Scan# 567
Delta R.T. 0.053 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

Tgt Ion:112 Resp: 5175
Ion Ratio Lower Upper
112 100
64 62.0 55.9 83.9
63 28.1 29.0 43.6#





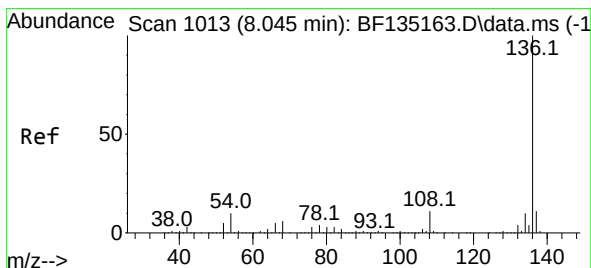
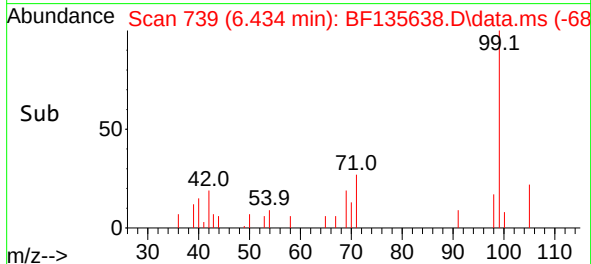
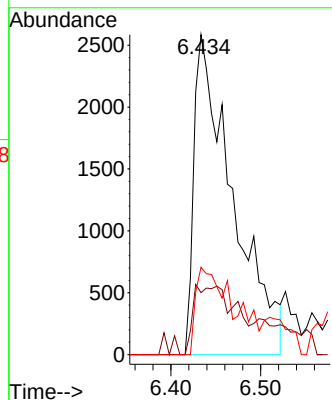
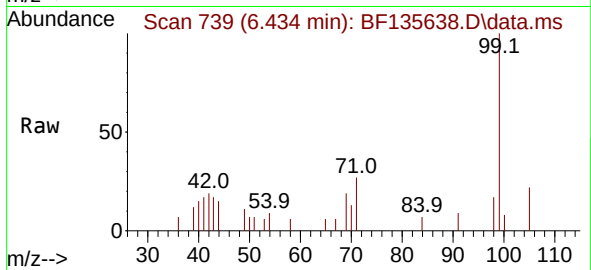
#7
Phenol-d6
Concen: 0.794 ng
RT: 6.434 min Scan# 71
Delta R.T. 0.047 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

Instrument :
BNA_F
ClientSampleId :
I-4(0-5)DL

Tgt Ion: 99 Resp: 772
Ion Ratio Lower Upper
99 100
42 19.4 17.9 26.9
71 27.3 27.0 40.6

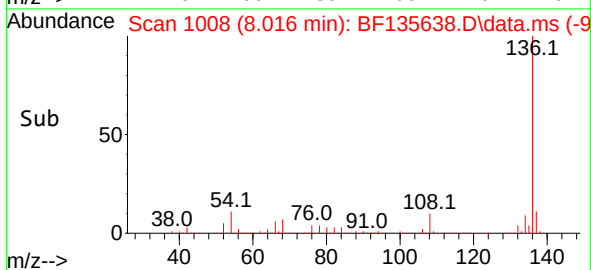
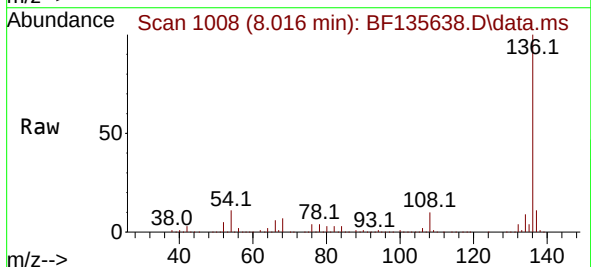
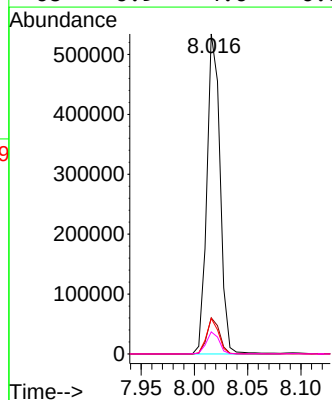
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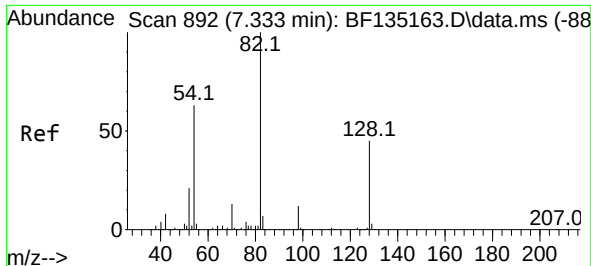
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.000 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

Tgt Ion:136 Resp: 463898
Ion Ratio Lower Upper
136 100
137 11.3 8.8 13.2
54 11.1 7.7 11.5
68 6.9 4.6 6.8#





#23

Nitrobenzene-d5

Concen: 0.635 ng

RT: 7.322 min Scan# 892

Delta R.T. 0.012 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :

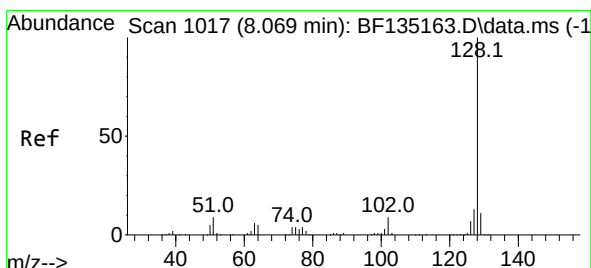
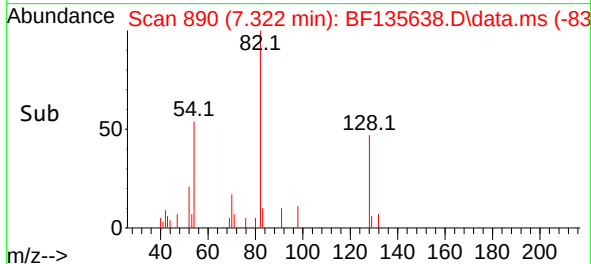
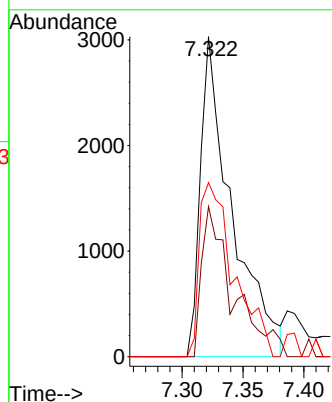
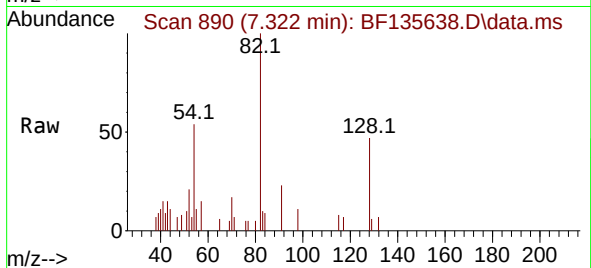
I-4(0-5)DL

Tgt Ion: 82	Resp: 5420
Ion Ratio	Lower Upper
82 100	
128 46.9	35.8 53.6
54 54.4	50.6 76.0

Manual Integrations

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#31

Naphthalene

Concen: 34.880 ng

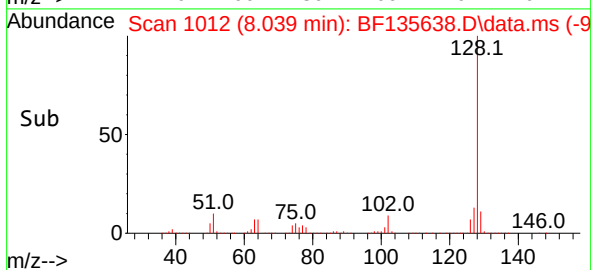
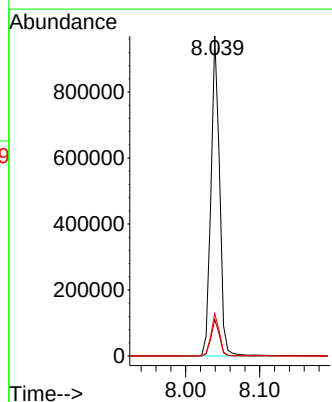
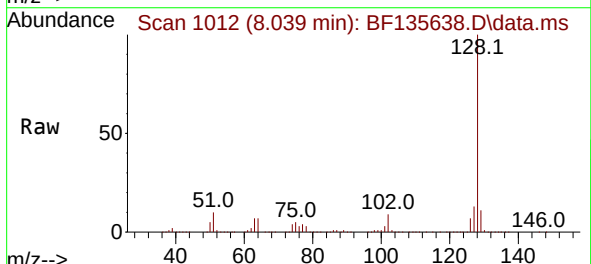
RT: 8.039 min Scan# 1012

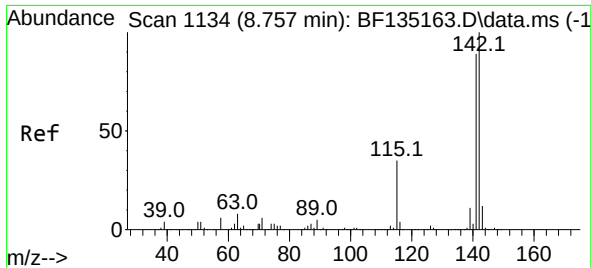
Delta R.T. -0.000 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Tgt Ion:128	Resp: 786164
Ion Ratio	Lower Upper
128 100	
129 11.4	8.7 13.1
127 13.2	10.7 16.1





#37

2-Methylnaphthalene

Concen: 14.038 ng

RT: 8.733 min Scan# 1134

Delta R.T. -0.000 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)DL

Tgt Ion:142 Resp: 212694

Ion Ratio Lower Upper

142 100

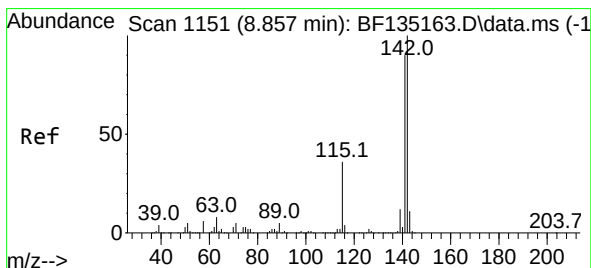
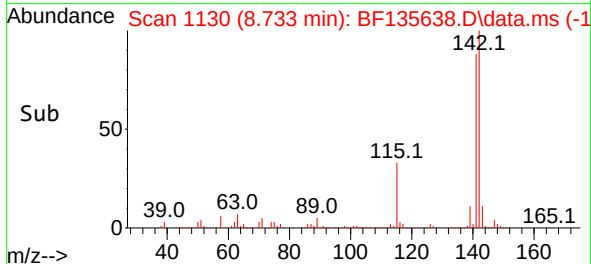
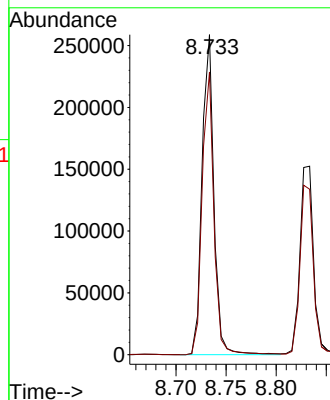
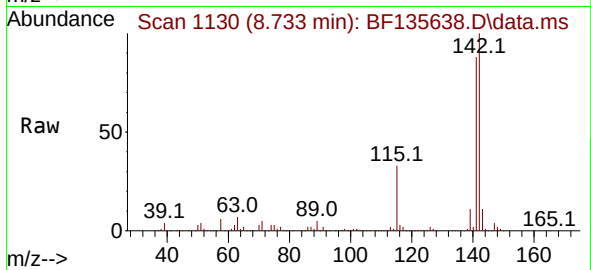
141 88.4 71.0 106.6

Manual Integrations

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Supervised By :mohammad ahmed 10/08/2023



#38

1-Methylnaphthalene

Concen: 10.152 ng

RT: 8.833 min Scan# 1147

Delta R.T. 0.006 min

Lab File: BF135638.D

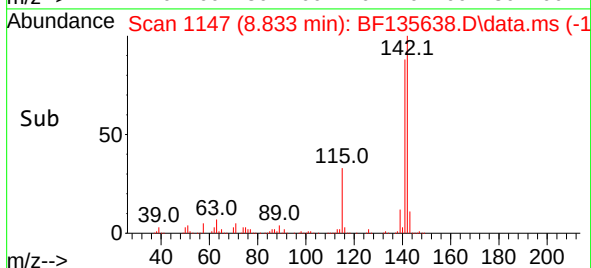
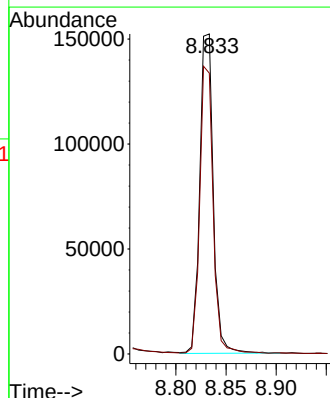
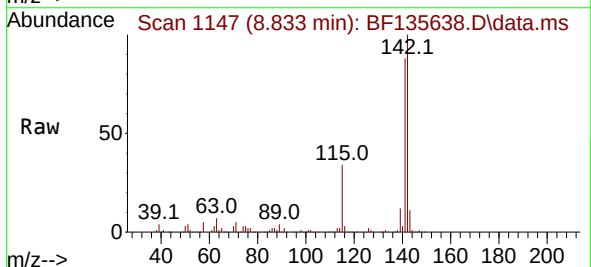
Acq: 06 Oct 2023 20:01

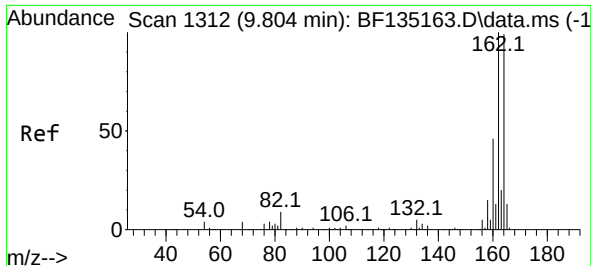
Tgt Ion:142 Resp: 144002

Ion Ratio Lower Upper

142 100

141 87.7 72.4 108.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.774 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)DL

Tgt Ion:164 Resp: 196689

Ion Ratio Lower Upper

164 100

162 101.2 81.0 121.4

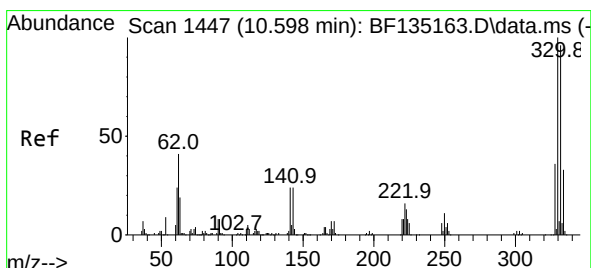
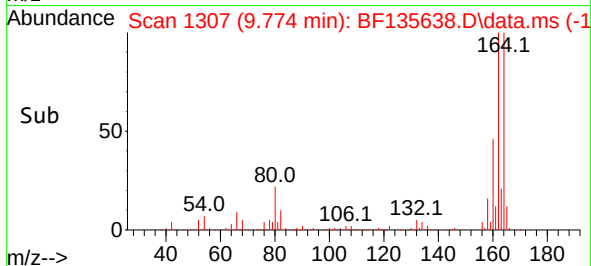
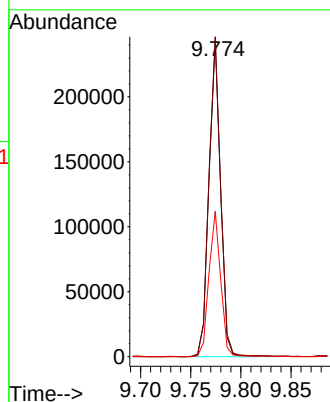
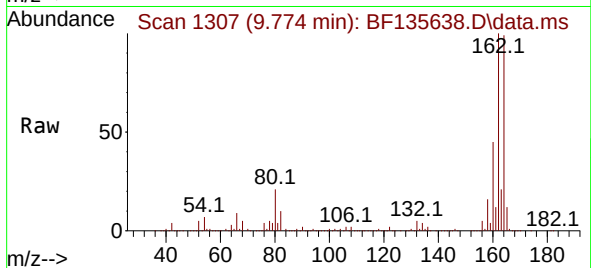
160 46.0 37.0 55.4

Manual Integrations

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Supervised By :mohammad ahmed 10/08/2023



#42

2,4,6-Tribromophenol

Concen: 0.685 ng

RT: 10.580 min Scan# 1444

Delta R.T. 0.012 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

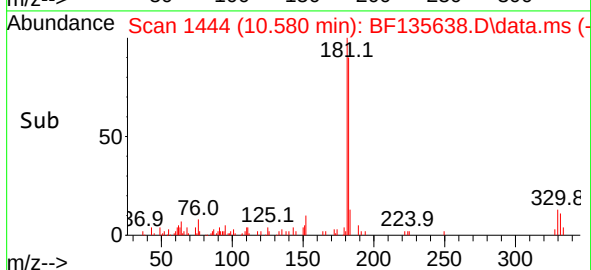
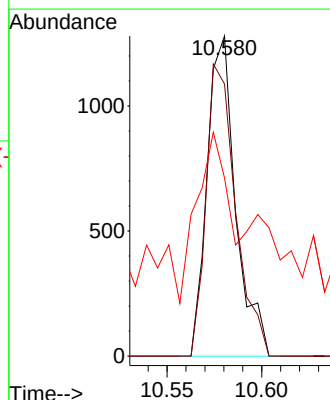
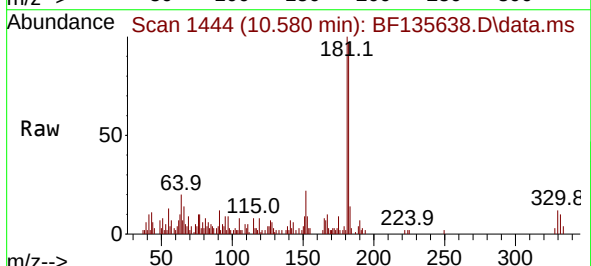
Tgt Ion:330 Resp: 1339

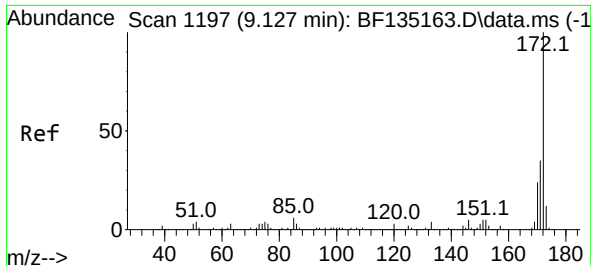
Ion Ratio Lower Upper

330 100

332 94.8 77.3 115.9

141 66.5 25.8 38.8#





#45

2-Fluorobiphenyl

Concen: 0.958 ng

RT: 9.098 min Scan# 1197

Delta R.T. -0.000 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)DL

Tgt Ion:172 Resp: 1248

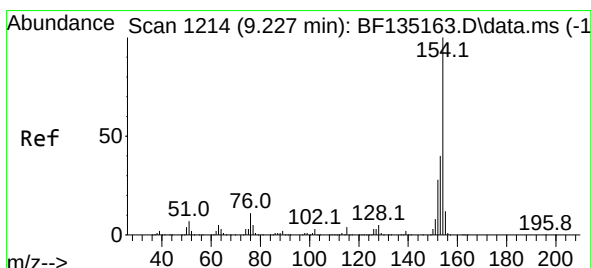
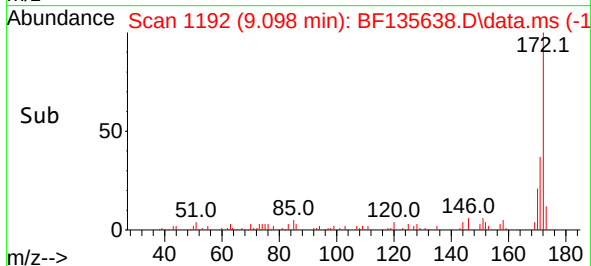
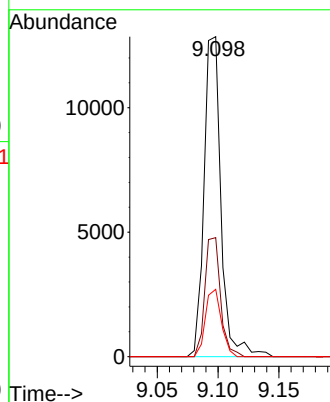
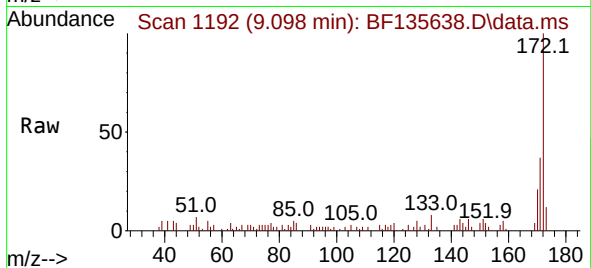
Ion	Ratio	Lower	Upper
172	100		
171	37.2	28.4	42.6
170	21.0	19.0	28.4

Manual Integrations

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Supervised By :mohammad ahmed 10/08/2023



#46

1,1'-Biphenyl

Concen: 3.675 ng

RT: 9.198 min Scan# 1209

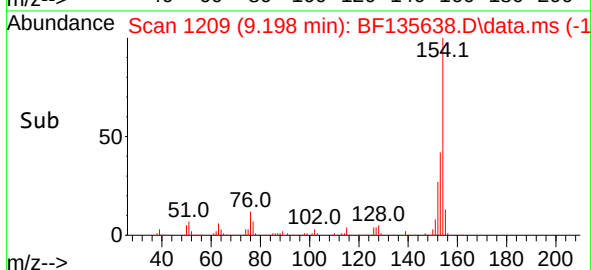
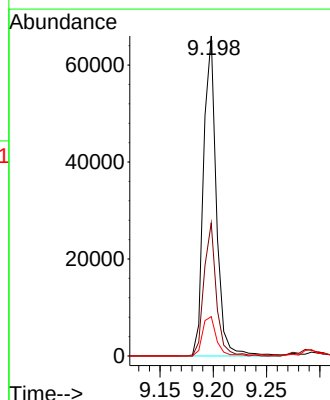
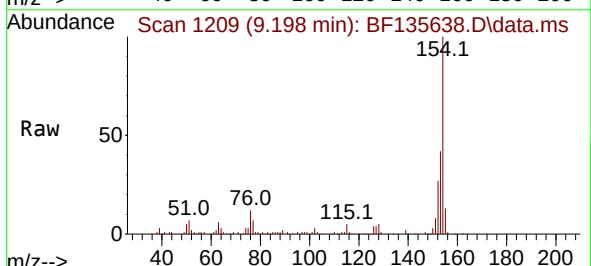
Delta R.T. -0.000 min

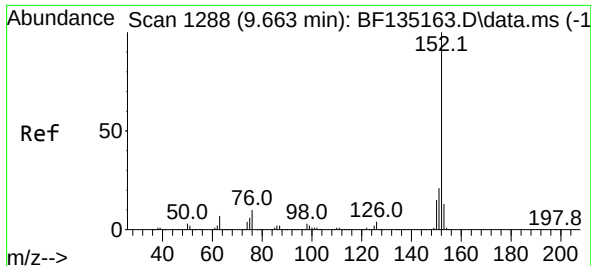
Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Tgt Ion:154 Resp: 55546

Ion	Ratio	Lower	Upper
154	100		
153	41.5	19.6	59.6
76	12.3	0.0	31.0





#49

Acenaphthylene

Concen: 2.926 ng

RT: 9.639 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)DL

Tgt Ion:152 Resp: 53334

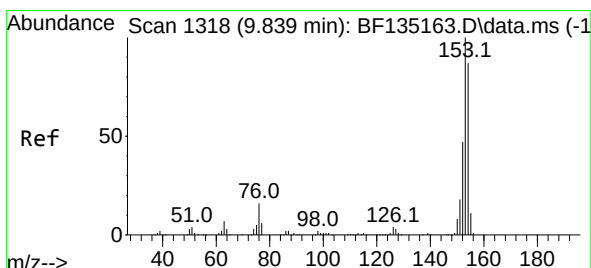
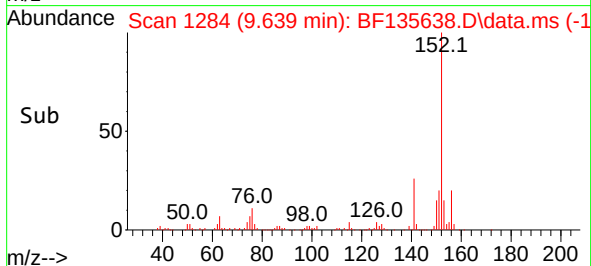
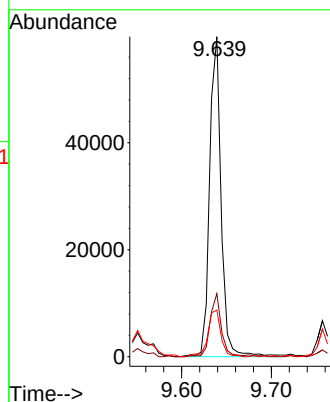
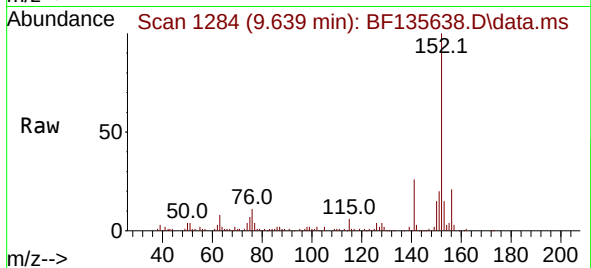
Ion	Ratio	Lower	Upper
152	100		
151	19.7	16.4	24.6
153	14.5	10.4	15.6

Manual Integrations

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Supervised By :mohammad ahmed 10/08/2023



#52

Acenaphthene

Concen: 4.277 ng

RT: 9.804 min Scan# 1312

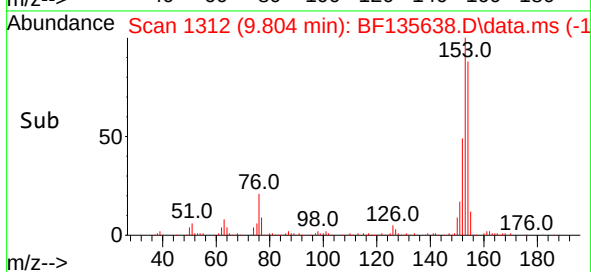
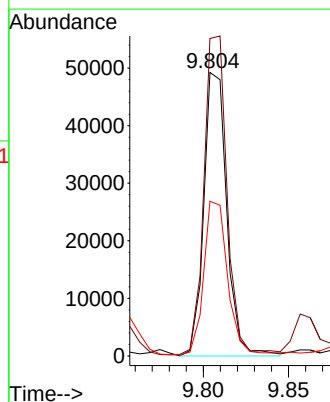
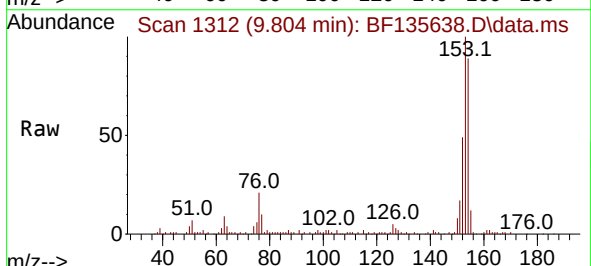
Delta R.T. -0.006 min

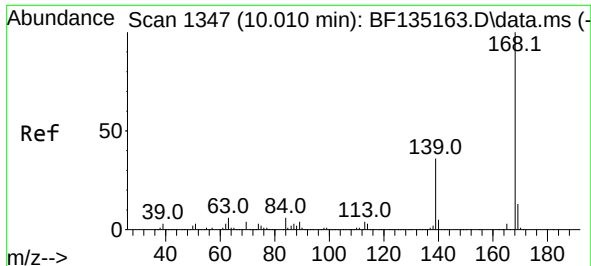
Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Tgt Ion:154 Resp: 46046

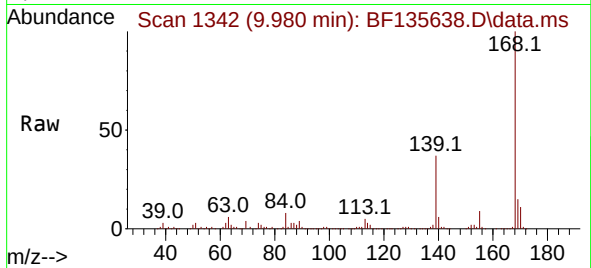
Ion	Ratio	Lower	Upper
154	100		
153	112.0	92.1	138.1
152	54.6	43.1	64.7





#55
Dibenzenofuran
Concen: 8.100 ng
RT: 9.980 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

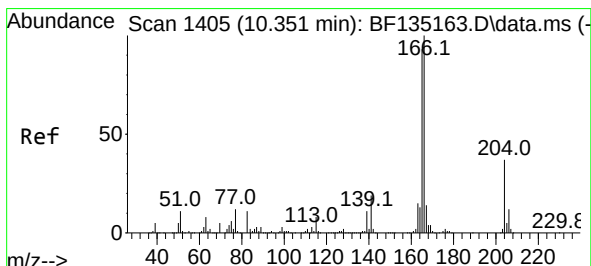
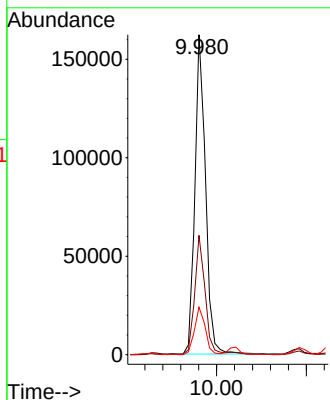
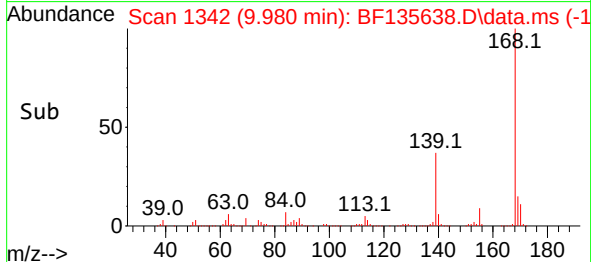
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)DL



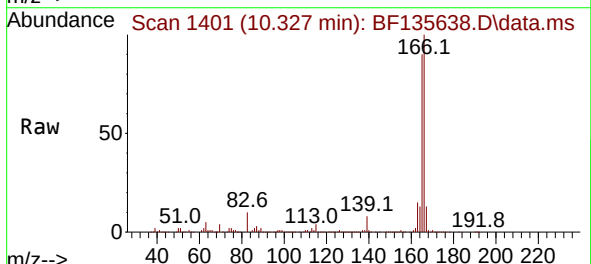
Tgt Ion:168 Resp: 13308
Ion Ratio Lower Upper
168 100
139 37.3 29.0 43.6
169 14.8 10.4 15.6

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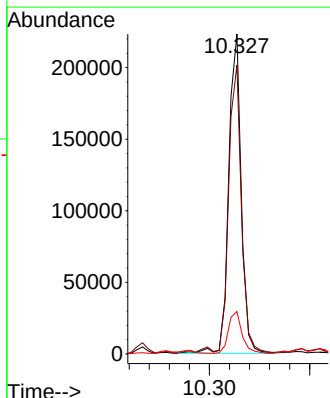
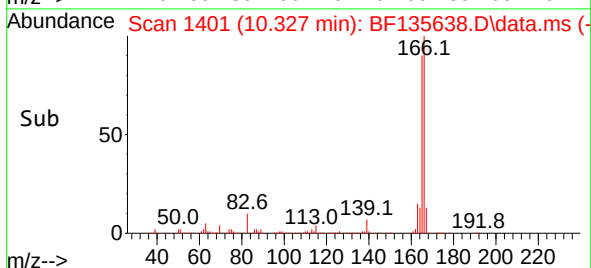
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023

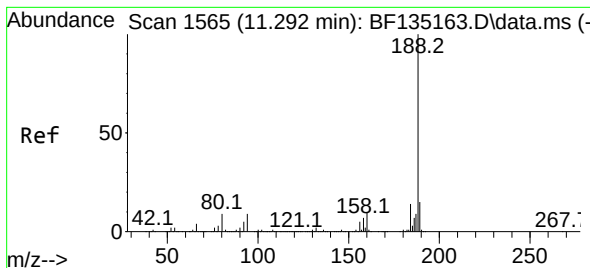


#58
Fluorene
Concen: 15.257 ng
RT: 10.327 min Scan# 1401
Delta R.T. -0.000 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01



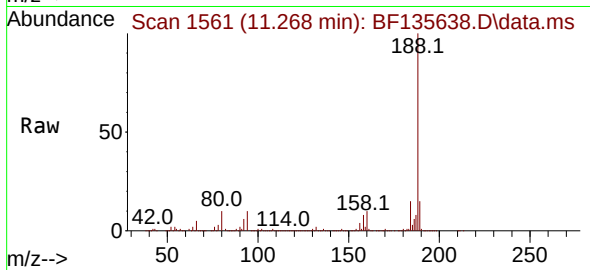
Tgt Ion:166 Resp: 192708
Ion Ratio Lower Upper
166 100
165 90.2 74.3 111.5
167 13.2 10.9 16.3





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.268 min Scan# 1561
Delta R.T. -0.000 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

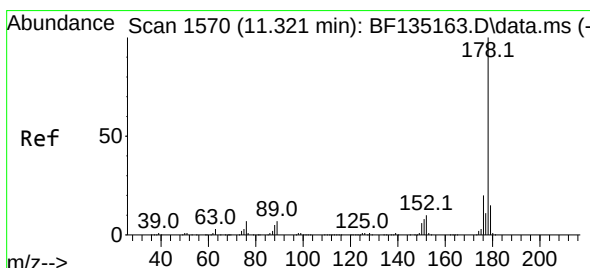
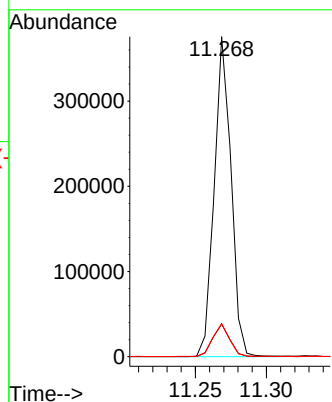
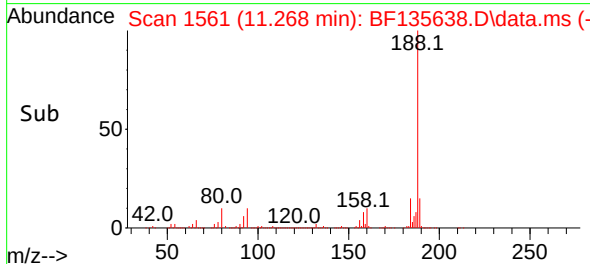
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)DL



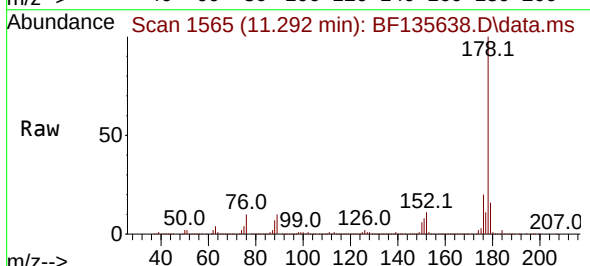
Tgt Ion:188 Resp: 30952
Ion Ratio Lower Upper
188 100
94 10.2 7.0 10.6
80 10.4 7.5 11.3

Manual Integrations
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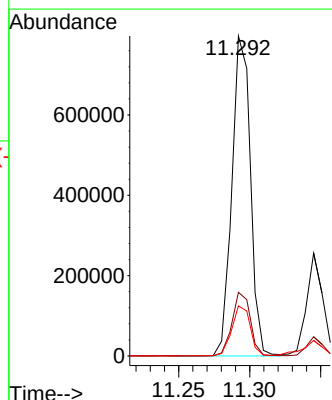
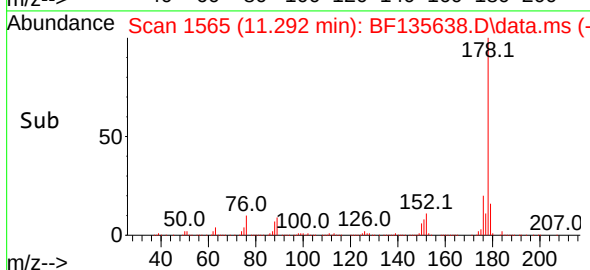
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023

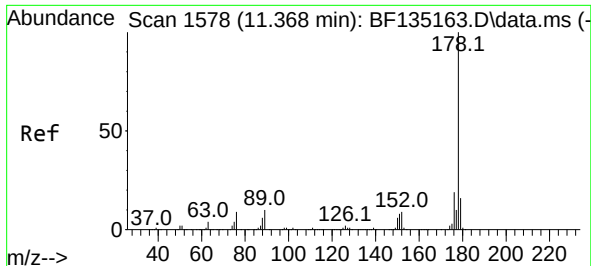


#71
Phenanthrene
Concen: 49.249 ng
RT: 11.292 min Scan# 1565
Delta R.T. -0.000 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01



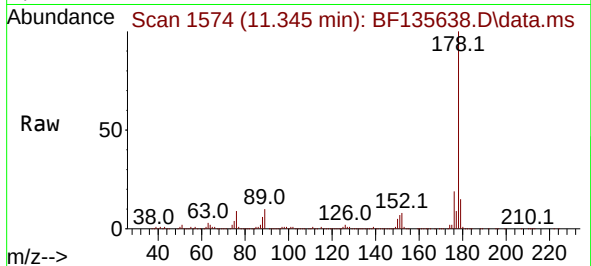
Tgt Ion:178 Resp: 720959
Ion Ratio Lower Upper
178 100
176 19.9 15.6 23.4
179 15.7 12.0 18.0





#72
 Anthracene
 Concen: 13.117 ng
 RT: 11.345 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: BF135638.D
 Acq: 06 Oct 2023 20:01

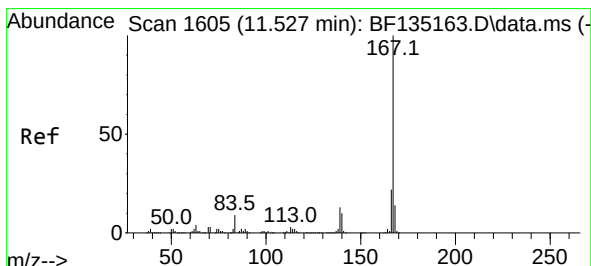
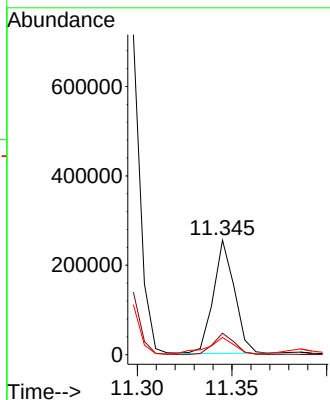
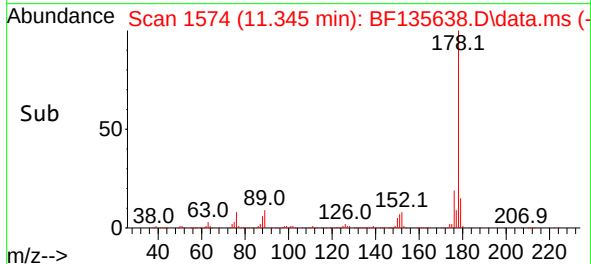
Instrument :
 BNA_F
 ClientSampleId :
 I-4(0-5)DL



Tgt Ion:178 Resp: 19737
 Ion Ratio Lower Upper
 178 100
 176 18.7 15.4 23.2
 179 15.1 12.6 19.0

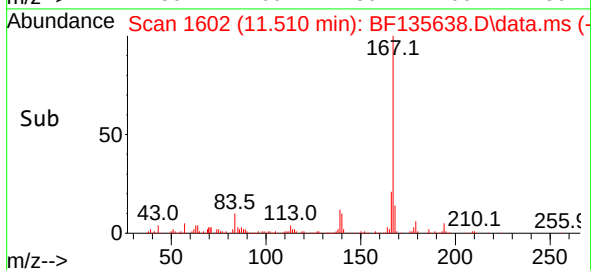
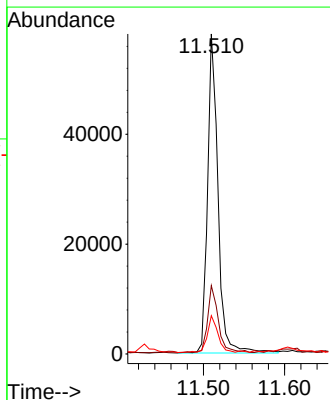
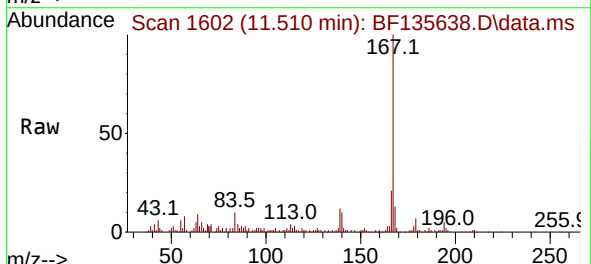
Manual Integrations
 APPROVED

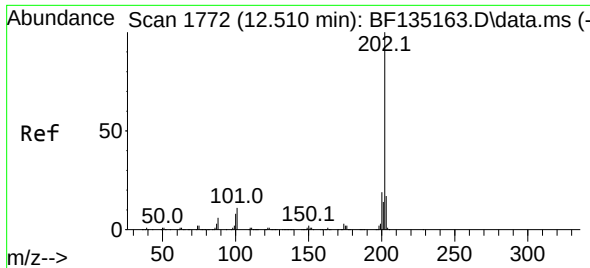
Reviewed By :Yogesh Patel 10/08/2023
 Supervised By :mohammad ahmed 10/08/2023



#73
 Carbazole
 Concen: 3.771 ng
 RT: 11.510 min Scan# 1602
 Delta R.T. -0.000 min
 Lab File: BF135638.D
 Acq: 06 Oct 2023 20:01

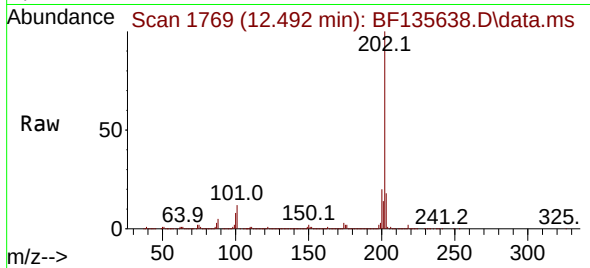
Tgt Ion:167 Resp: 51661
 Ion Ratio Lower Upper
 167 100
 166 21.4 17.4 26.0
 139 11.9 10.6 15.8





#75
Fluoranthene
Concen: 34.629 ng
RT: 12.492 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

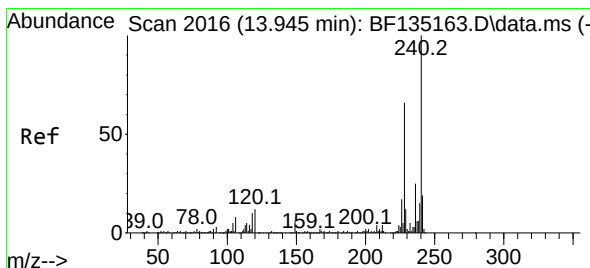
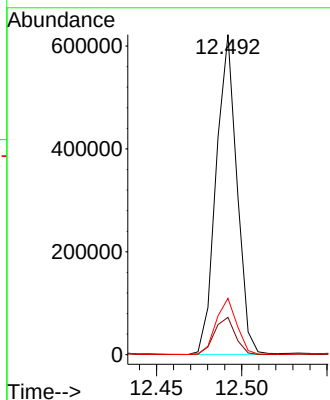
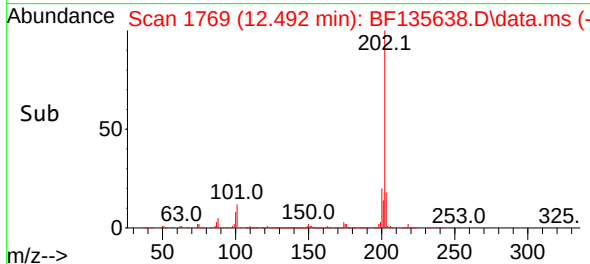
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)DL



Tgt Ion:202 Resp: 52822
Ion Ratio Lower Upper
202 100
101 11.7 0.0 31.3
203 17.6 0.0 37.4

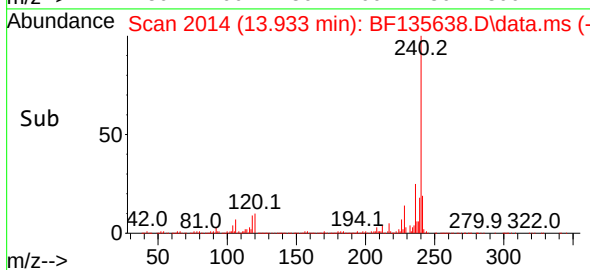
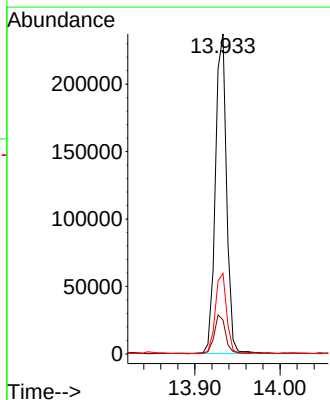
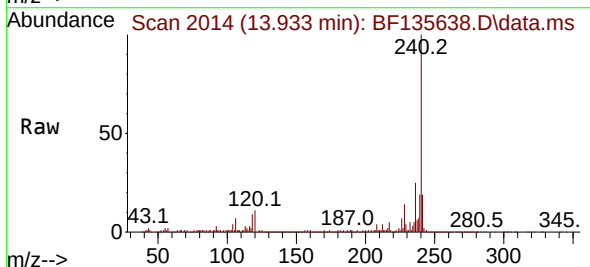
Manual Integrations
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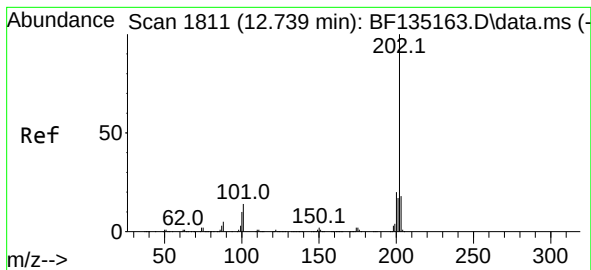
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.933 min Scan# 2014
Delta R.T. 0.006 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

Tgt Ion:240 Resp: 217524
Ion Ratio Lower Upper
240 100
120 10.6 9.4 14.2
236 25.2 19.8 29.8





#78

Pyrene

Concen: 23.047 ng

RT: 12.721 min Scan# 1808

Delta R.T. 0.006 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)DL

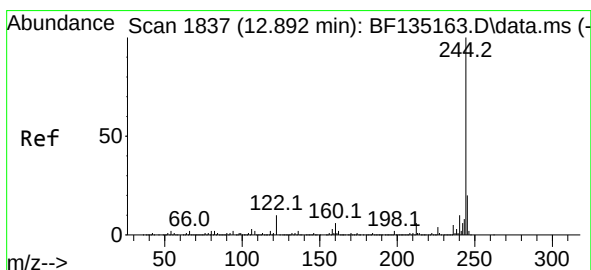
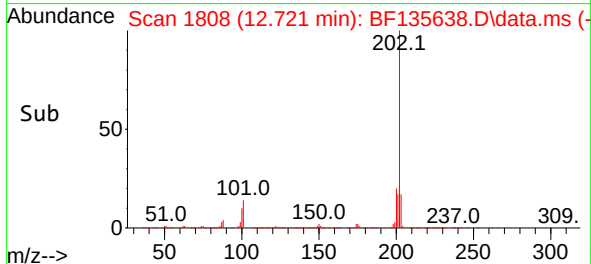
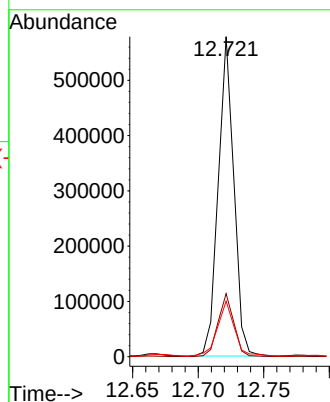
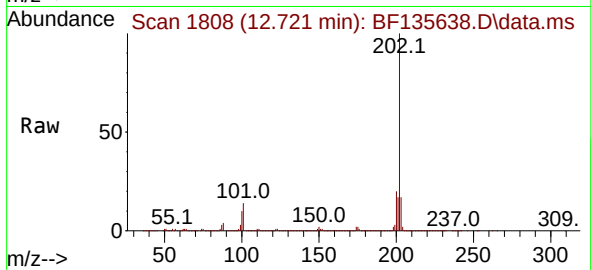
Tgt Ion:202 Resp: 47730
 Ion Ratio Lower Upper
 202 100
 200 19.7 16.2 24.2
 203 17.4 14.2 21.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/08/2023

Supervised By :mohammad ahmed 10/08/2023



#79

Terphenyl-d14

Concen: 0.705 ng

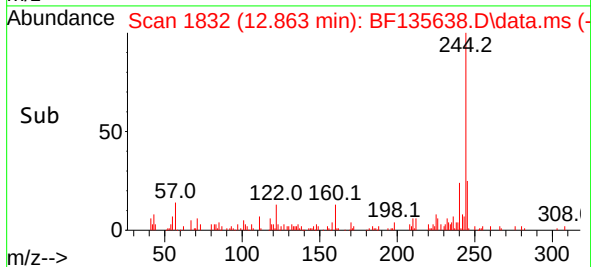
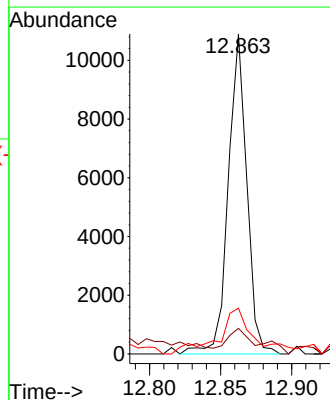
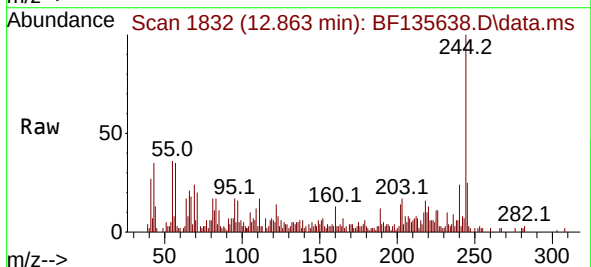
RT: 12.863 min Scan# 1832

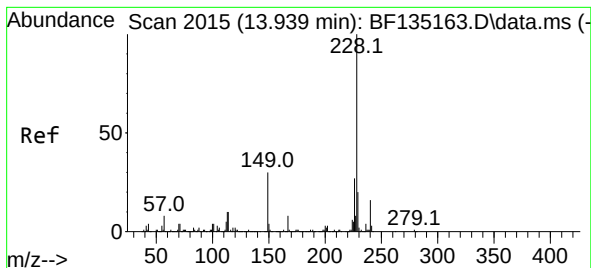
Delta R.T. -0.000 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Tgt Ion:244 Resp: 9890
 Ion Ratio Lower Upper
 244 100
 212 8.0 5.1 7.7#
 122 14.3 7.9 11.9#





#81

Benzo(a)anthracene

Concen: 15.800 ng

RT: 13.921 min Scan# 2012

Delta R.T. 0.006 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)DL

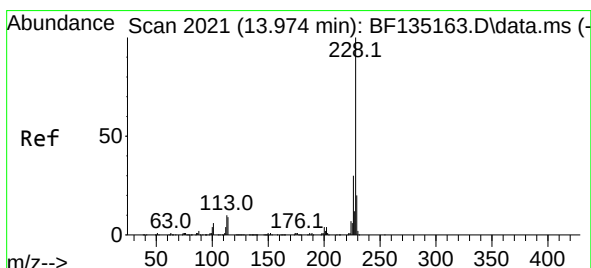
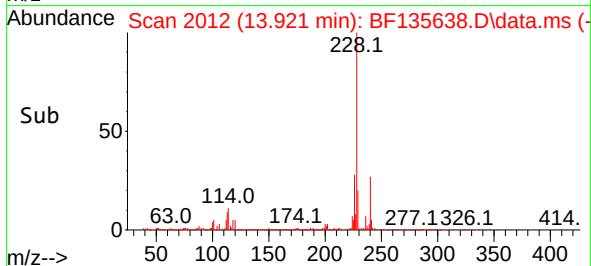
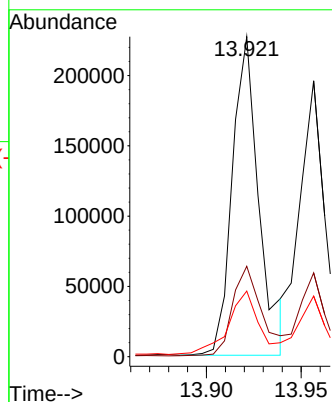
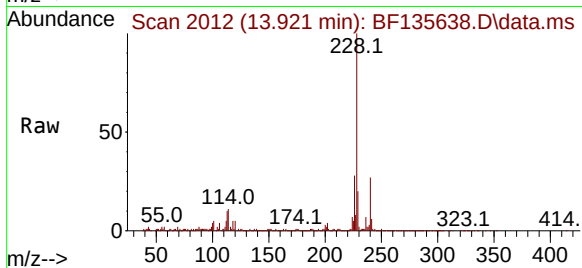
Tgt Ion:228 Resp: 221935
 Ion Ratio Lower Upper
 228 100
 226 28.2 21.7 32.5
 229 20.5 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/08/2023

Supervised By :mohammad ahmed 10/08/2023



#83

Chrysene

Concen: 12.491 ng

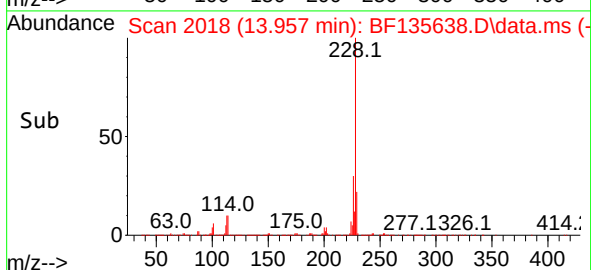
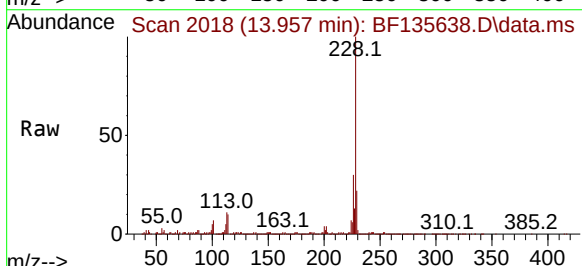
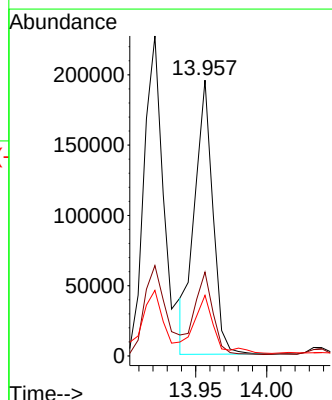
RT: 13.957 min Scan# 2018

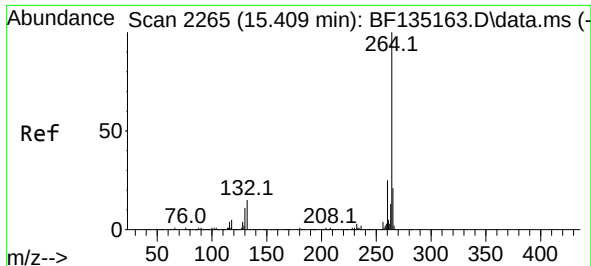
Delta R.T. 0.006 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Tgt Ion:228 Resp: 174433
 Ion Ratio Lower Upper
 228 100
 226 30.4 24.3 36.5
 229 22.0 16.0 24.0





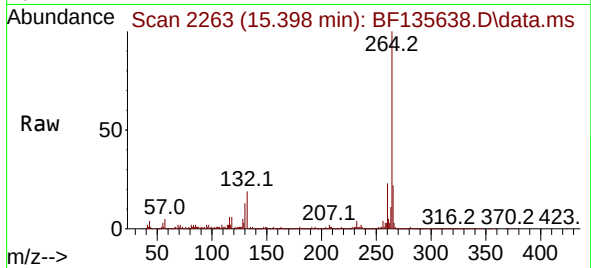
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.398 min Scan# 203198
Delta R.T. 0.012 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :

1-4(0-5)DL

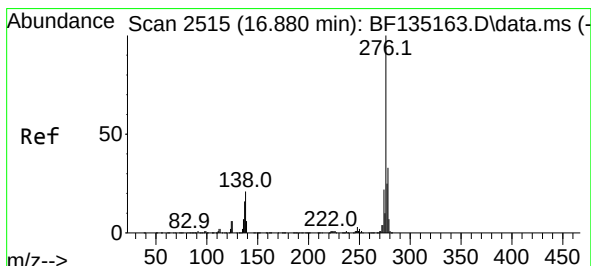
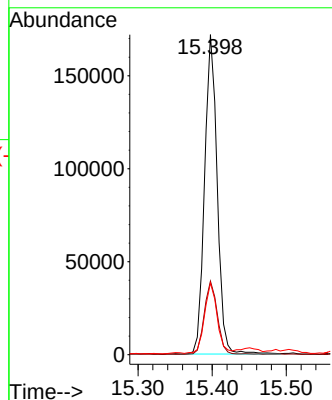
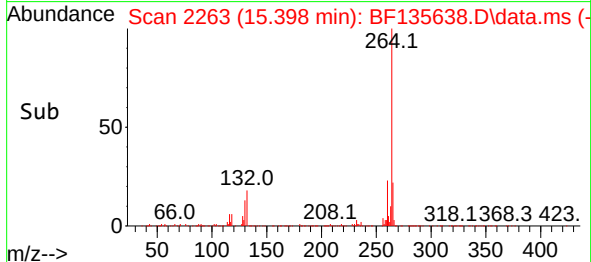


Tgt Ion:264 Resp: 203198
Ion Ratio Lower Upper
264 100
260 23.0 19.8 29.6
265 22.4 17.0 25.4

Manual Integrations

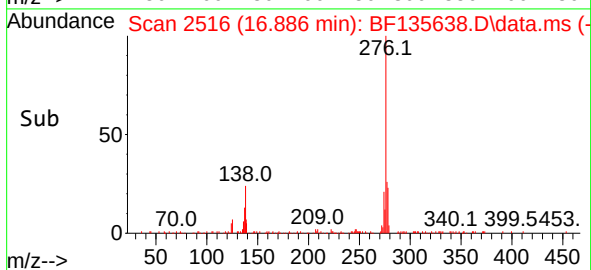
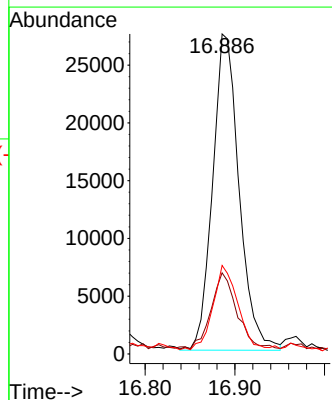
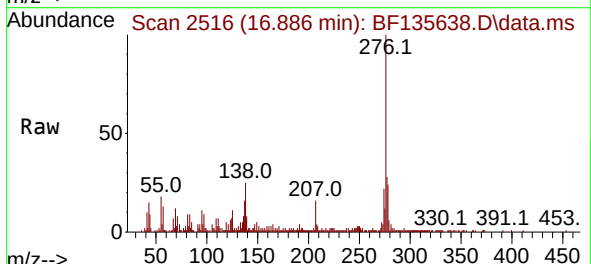
APPROVED

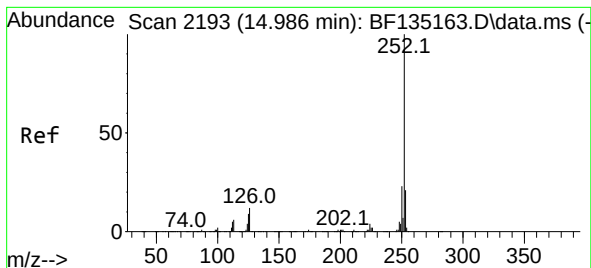
Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 4.213 ng
RT: 16.886 min Scan# 2516
Delta R.T. 0.018 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

Tgt Ion:276 Resp: 56136
Ion Ratio Lower Upper
276 100
138 22.8 19.2 28.8
277 24.8 19.7 29.5





#88

Benzo(b)fluoranthene

Concen: 14.789 ng m

RT: 14.974 min Scan# 2191

Delta R.T. 0.012 min

Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Instrument :

BNA_F

ClientSampleId :

I-4(0-5)DL

Tgt Ion:252 Resp: 162674

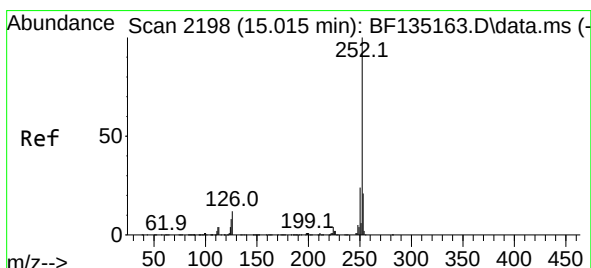
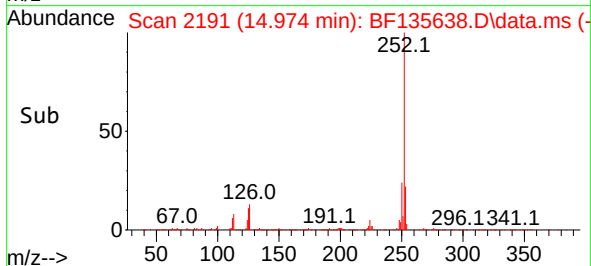
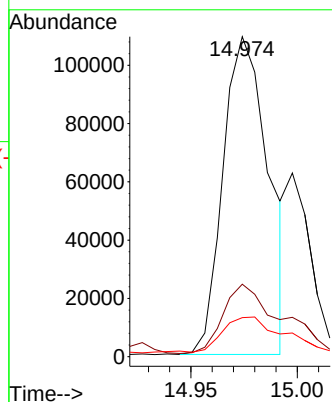
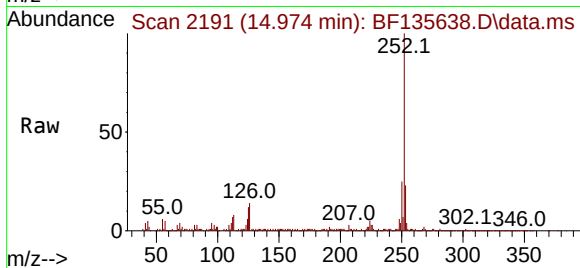
Ion	Ratio	Lower	Upper
252	100		
253	22.6	17.2	25.8
125	12.2	7.1	10.7

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/08/2023

Supervised By :mohammad ahmed 10/08/2023



#89

Benzo(k)fluoranthene

Concen: 4.490 ng m

RT: 14.998 min Scan# 2195

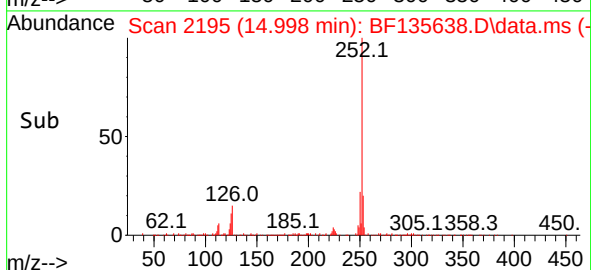
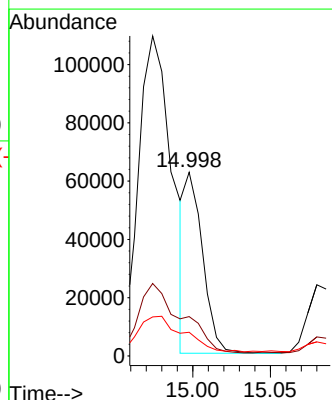
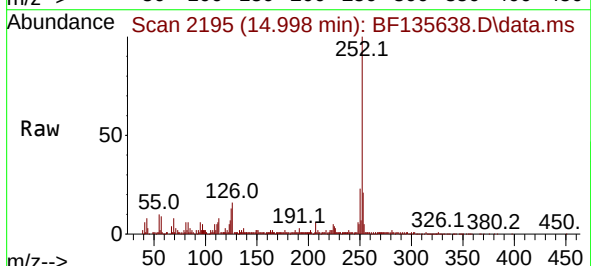
Delta R.T. 0.006 min

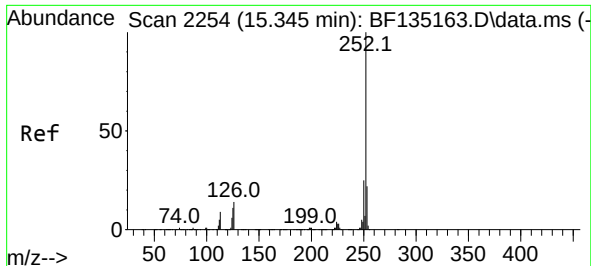
Lab File: BF135638.D

Acq: 06 Oct 2023 20:01

Tgt Ion:252 Resp: 48788

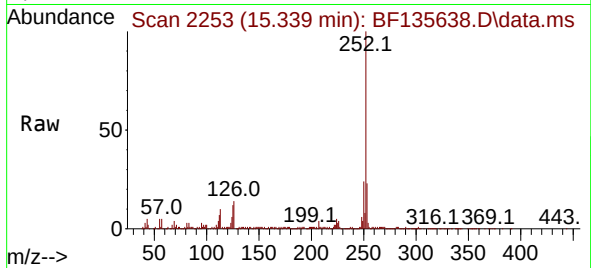
Ion	Ratio	Lower	Upper
252	100		
253	21.4	17.4	26.0
125	12.9	7.2	10.8





#90
Benzo(a)pyrene
Concen: 11.381 ng
RT: 15.339 min Scan# 211
Delta R.T. 0.012 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

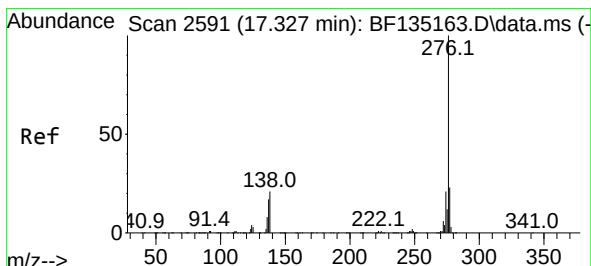
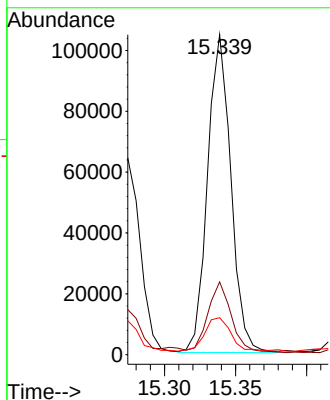
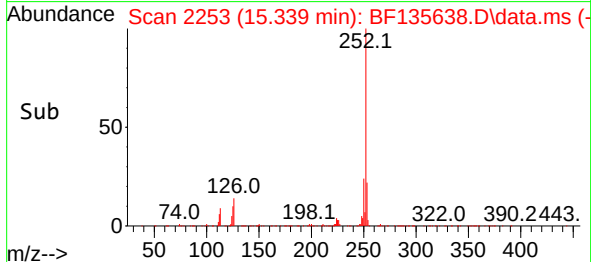
Instrument :
BNA_F
ClientSampleId :
I-4(0-5)DL



Tgt Ion:252 Resp: 11938
Ion Ratio Lower Upper
252 100
253 22.7 17.5 26.3
125 11.6 9.2 13.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/08/2023
Supervised By :mohammad ahmed 10/08/2023



#92
Benzo(g,h,i)perylene
Concen: 4.583 ng
RT: 17.339 min Scan# 2593
Delta R.T. 0.023 min
Lab File: BF135638.D
Acq: 06 Oct 2023 20:01

Tgt Ion:276 Resp: 52174
Ion Ratio Lower Upper
276 100
277 24.9 18.8 28.2
138 24.2 16.9 25.3

