

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091223\
 Data File : BF135216.D
 Acq On : 13 Sep 2023 10:18
 Operator : CG\JU
 Sample : 04189-03DL3 1000X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-07(14-15)DL3

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/13/2023
 Supervised By :mohammad ahmed 09/14/2023

Quant Time: Sep 13 12:18:15 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 00:19:07 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.763	152	109284	20.000	ng	0.00
21) Naphthalene-d8	8.045	136	413968	20.000	ng	0.00
39) Acenaphthene-d10	9.798	164	164392	20.000	ng	0.00
64) Phenanthrene-d10	11.292	188	236639	20.000	ng	0.00
76) Chrysene-d12	13.945	240	202873	20.000	ng	0.00
86) Perylene-d12	15.410	264	193687	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	316	0.047	ng	0.02
7) Phenol-d6	6.410	99	669	0.078	ng	0.00
23) Nitrobenzene-d5	7.328	82	367	0.048	ng	0.00
42) 2,4,6-Tribromophenol	10.592	330	119	0.073	ng	0.00
45) 2-Fluorobiphenyl	9.116	172	1462	0.134	ng	-0.01
79) Terphenyl-d14	12.886	244	1546	0.118	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.069	128	1159921	57.669	ng	100
37) 2-Methylnaphthalene	8.757	142	156471	11.573	ng	97
38) 1-Methylnaphthalene	8.857	142	86239	6.813	ng	97
46) 1,1'-Biphenyl	9.222	154	47130	3.731	ng	98
49) Acenaphthylene	9.657	152	50900	3.341	ng	99
55) Dibenzofuran	10.004	168	101839	7.416	ng	99
58) Fluorene	10.345	166	76758	7.271	ng	99
71) Phenanthrene	11.316	178	348495	31.138	ng	100
72) Anthracene	11.369	178	69327	6.026	ng	98
73) Carbazole	11.528	167	29984	2.863	ng	97
75) Fluoranthene	12.510	202	242624	20.805	ng	97
78) Pyrene	12.739	202	203824	10.553	ng	98
81) Benzo(a)anthracene	13.933	228	82742	6.316	ng	97
83) Chrysene	13.969	228	55025	4.225	ng	96
87) Indeno(1,2,3-cd)pyrene	16.880	276	28083	2.211	ng	94
88) Benzo(b)fluoranthene	14.986	252	75660m	7.216	ng	
89) Benzo(k)fluoranthene	15.010	252	22933m	2.214	ng	
90) Benzo(a)pyrene	15.351	252	57375	5.738	ng	98
92) Benzo(g,h,i)perylene	17.327	276	25643	2.363	ng	95

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

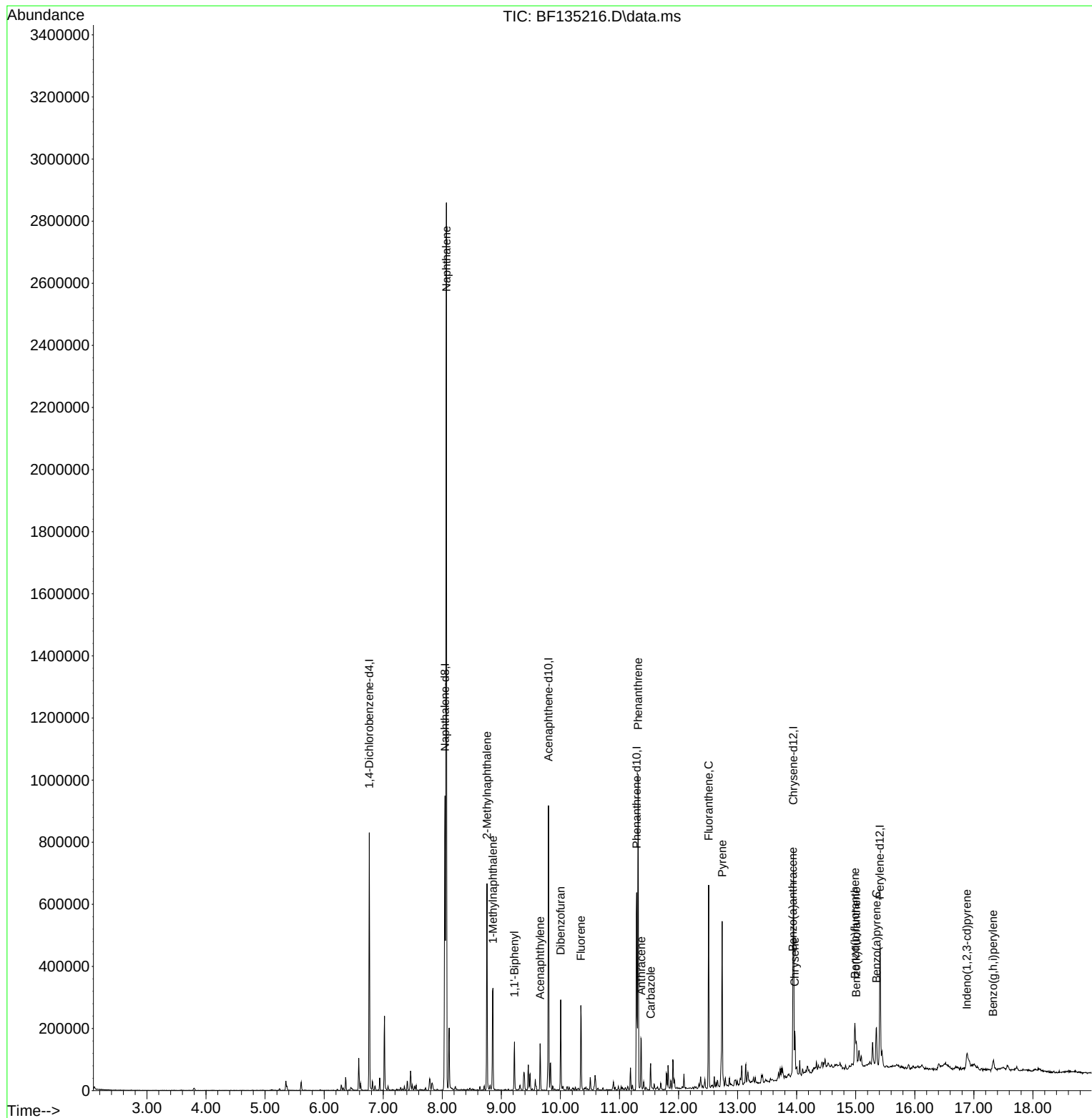
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF091223\
Data File : BF135216.D
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ALS Vial : 31 Sample Multiplier: 1

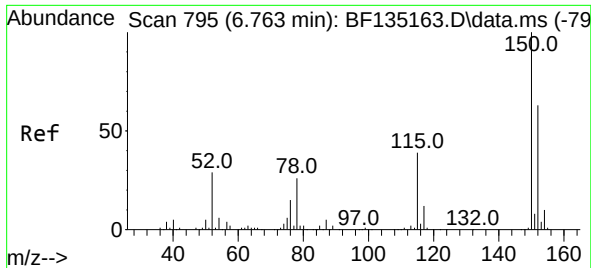
Instrument :
BNA_F
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SB-07(14-15)DL3

Quant Time: Sep 13 12:18:15 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 12 00:19:07 2023
Response via : Initial Calibration

Manual Integrations
APPROVED

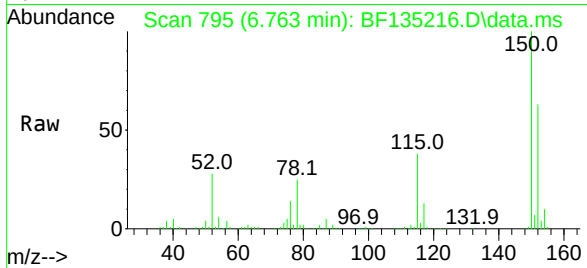
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.763 min Scan# 795
Delta R.T. 0.000 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18

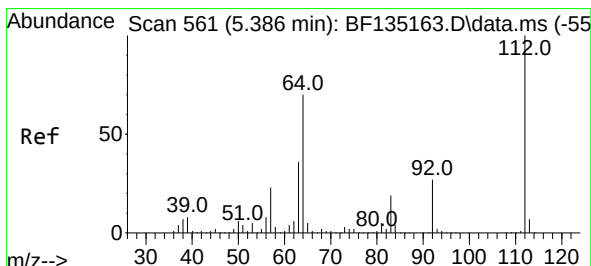
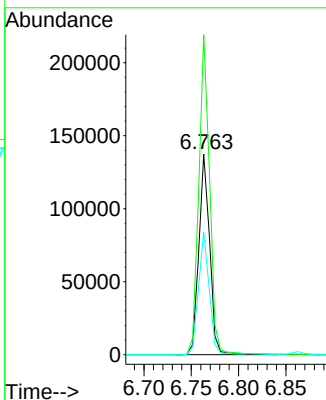
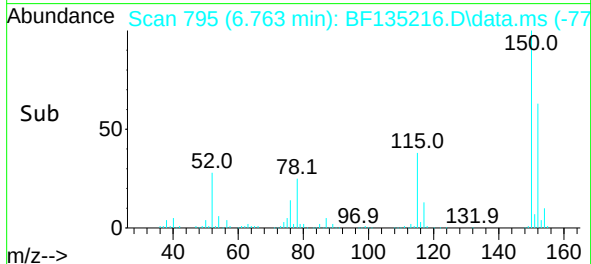
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL3



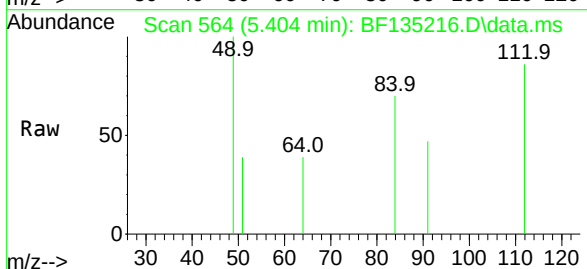
Tgt Ion:152 Resp: 109284
Ion Ratio Lower Upper
152 100
150 159.5 127.8 191.6
115 61.1 49.8 74.8

Manual Integrations
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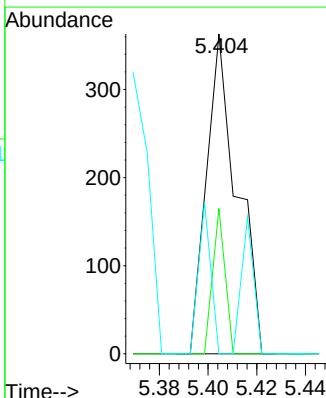
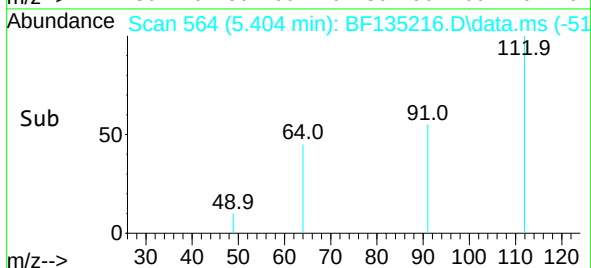
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023

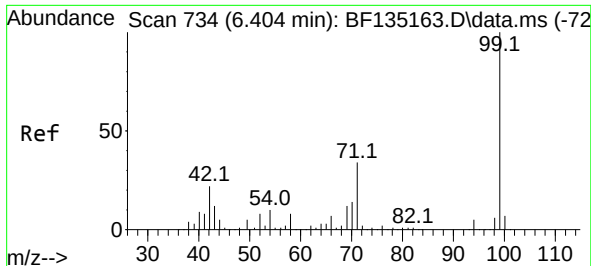


#5
2-Fluorophenol
Concen: 0.047 ng
RT: 5.404 min Scan# 564
Delta R.T. 0.018 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18



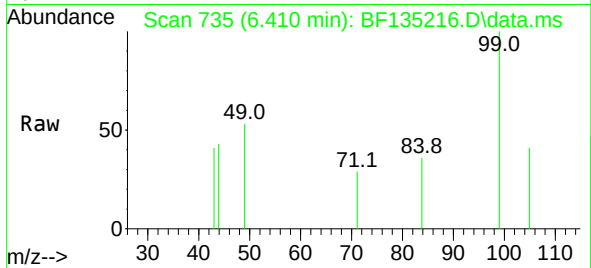
Tgt Ion:112 Resp: 316
Ion Ratio Lower Upper
112 100
64 45.5 55.9 83.9#
63 0.0 29.0 43.6#





#7
Phenol-d6
Concen: 0.078 ng
RT: 6.410 min Scan# 71
Delta R.T. 0.006 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18

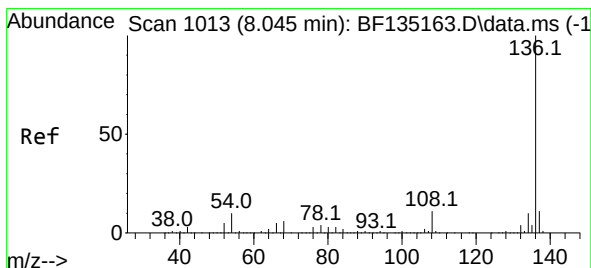
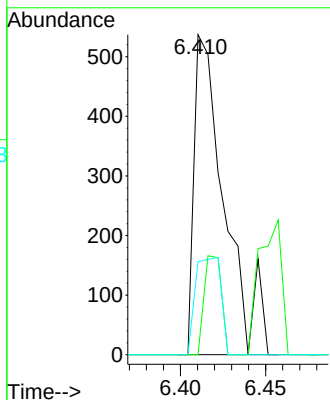
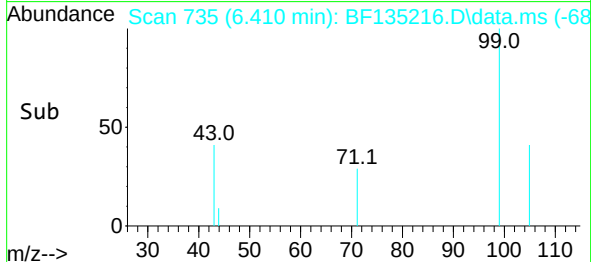
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL3



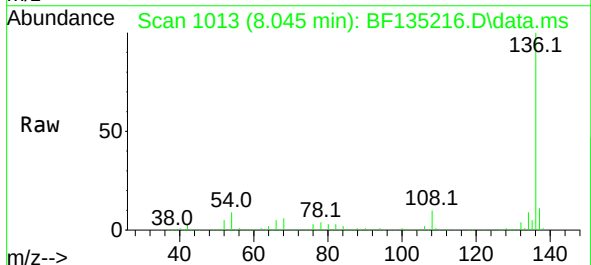
Tgt Ion: 99 Resp: 669
Ion Ratio Lower Upper
99 100
42 0.0 17.9 26.9
71 29.1 27.0 40.6

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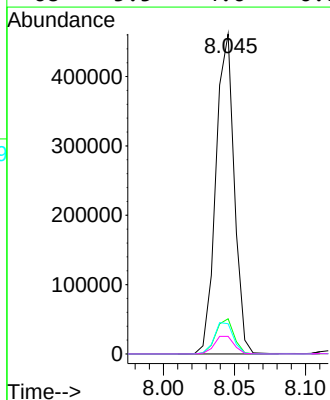
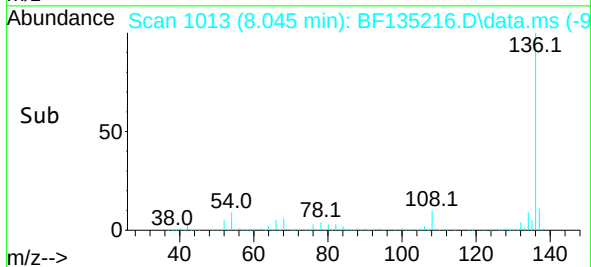
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023

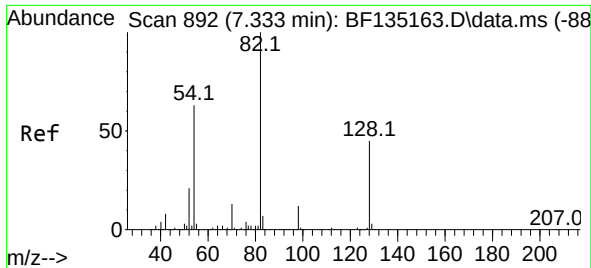


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.045 min Scan# 1013
Delta R.T. 0.000 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18



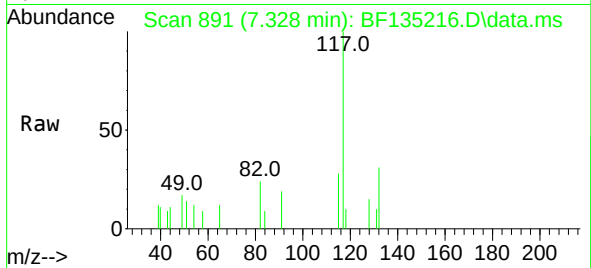
Tgt Ion:136 Resp: 413968
Ion Ratio Lower Upper
136 100
137 11.0 8.8 13.2
54 9.5 7.7 11.5
68 5.5 4.6 6.8





#23
Nitrobenzene-d5
Concen: 0.048 ng
RT: 7.328 min Scan# 892
Delta R.T. -0.006 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18

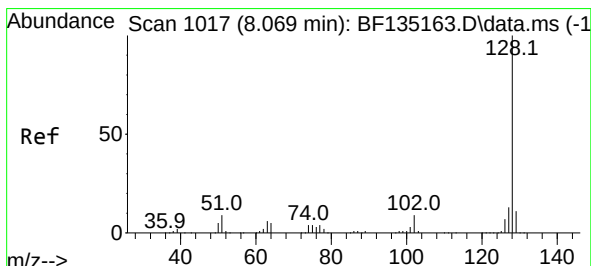
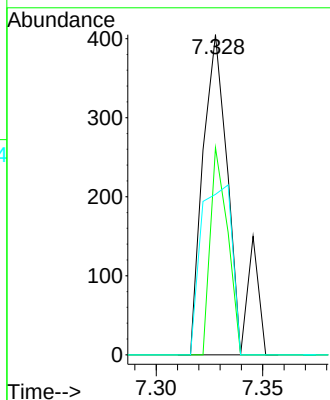
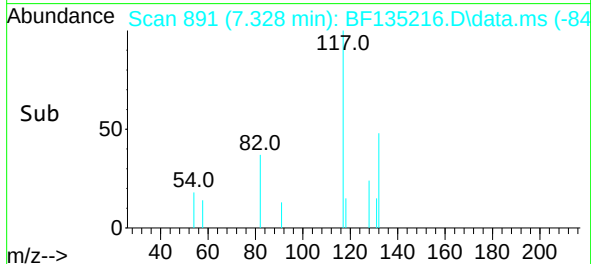
Instrument :
BNA_F
ClientSampleId :
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Tgt Ion: 82 Resp: 365
Ion Ratio Lower Upper
82 100
128 64.7 35.8 53.6
54 50.1 50.6 76.0

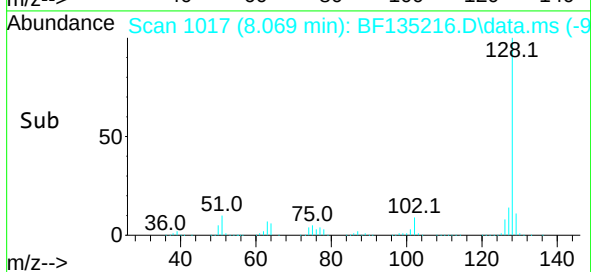
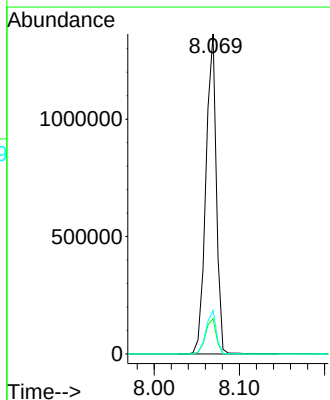
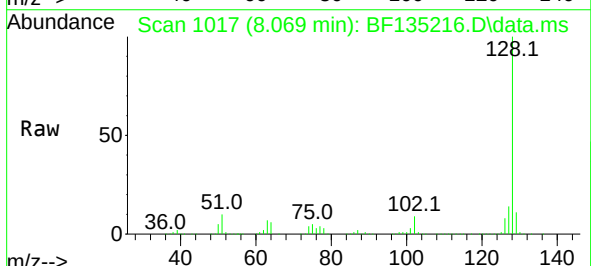
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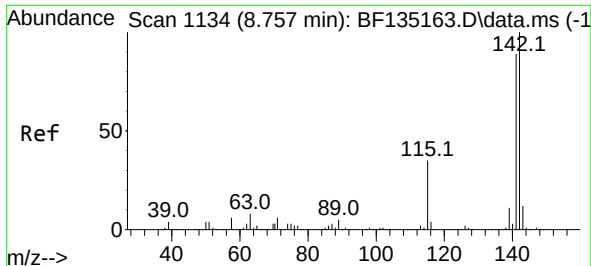
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023



#31
Naphthalene
Concen: 57.669 ng
RT: 8.069 min Scan# 1017
Delta R.T. 0.000 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18

Tgt Ion:128 Resp: 1159921
Ion Ratio Lower Upper
128 100
129 11.0 8.7 13.1
127 13.6 10.7 16.1





#37

2-Methylnaphthalene

Concen: 11.573 ng

RT: 8.757 min Scan# 1134

Delta R.T. 0.000 min

Lab File: BF135216.D

Acq: 13 Sep 2023 10:18

Instrument :

BNA_F

ClientSampleId :

SB-07(14-15)DL3

Tgt Ion:142 Resp: 15647

Ion Ratio Lower Upper

142 100

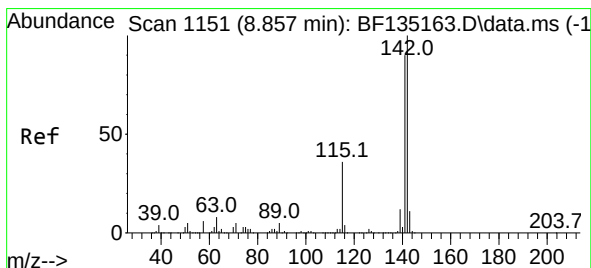
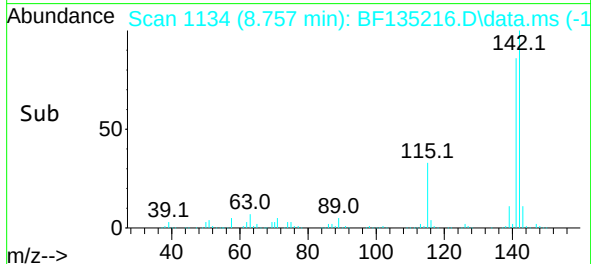
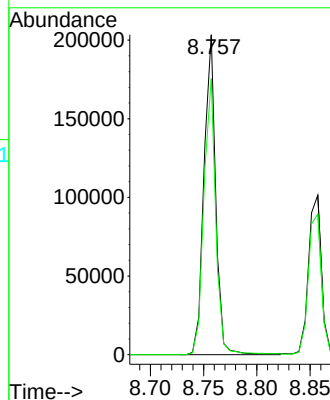
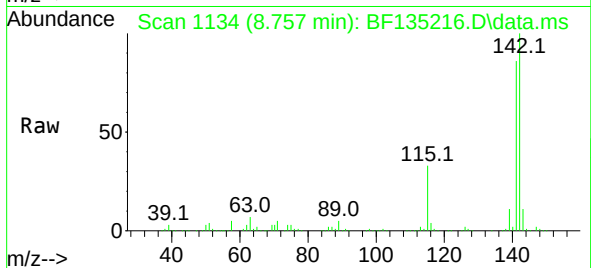
141 86.3 71.0 106.6

Manual Integrations

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Reviewed By :Yogesh Patel 09/13/2023

Supervised By :mohammad ahmed 09/14/2023



#38

1-Methylnaphthalene

Concen: 6.813 ng

RT: 8.857 min Scan# 1151

Delta R.T. 0.000 min

Lab File: BF135216.D

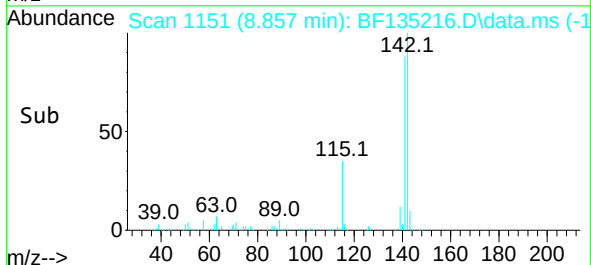
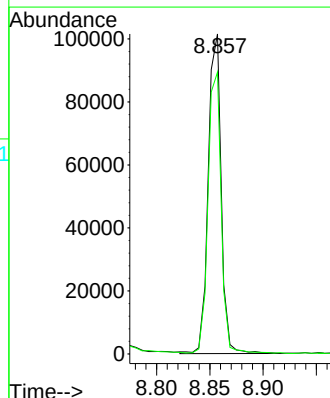
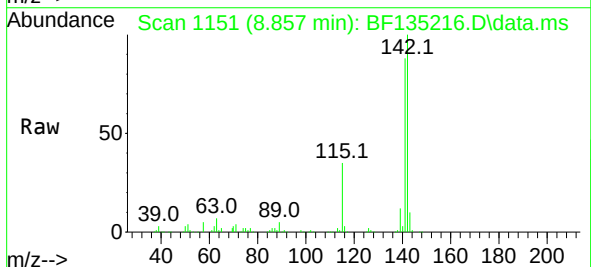
Acq: 13 Sep 2023 10:18

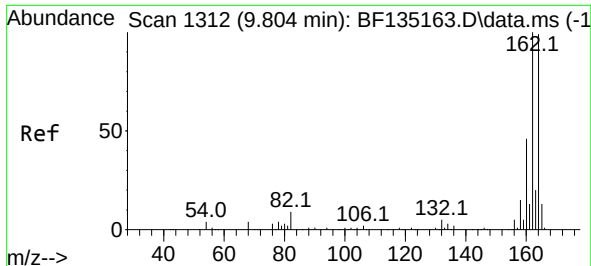
Tgt Ion:142 Resp: 86239

Ion Ratio Lower Upper

142 100

141 88.1 72.4 108.6





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.798 min Scan# 1311

Delta R.T. -0.006 min

Lab File: BF135216.D

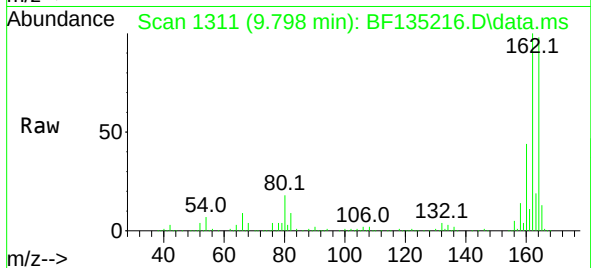
Acq: 13 Sep 2023 10:18

Instrument :

BNA_F

ClientSampleId :

SB-07(14-15)DL3



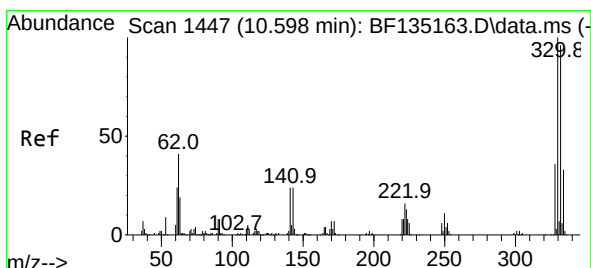
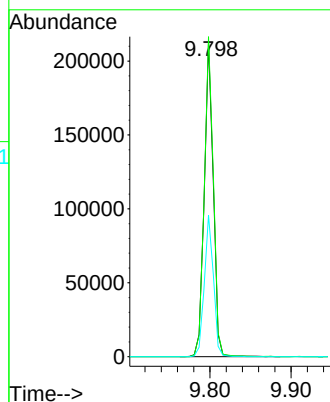
Tgt Ion:	164	Resp:	16439
Ion Ratio	Lower	Upper	
164	100		
162	101.7	81.0	121.4
160	45.0	37.0	55.4

Manual Integrations

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Supervised By :mohammad ahmed 09/14/2023



#42

2,4,6-Tribromophenol

Concen: 0.073 ng

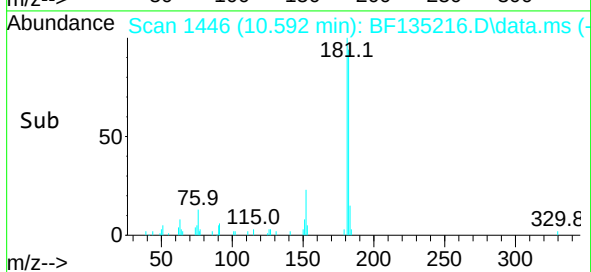
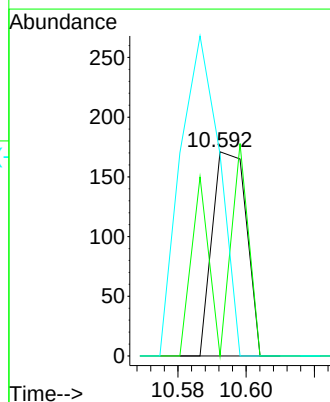
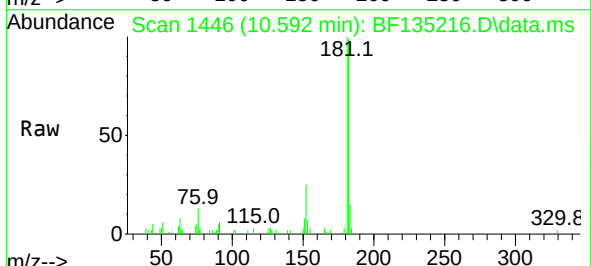
RT: 10.592 min Scan# 1446

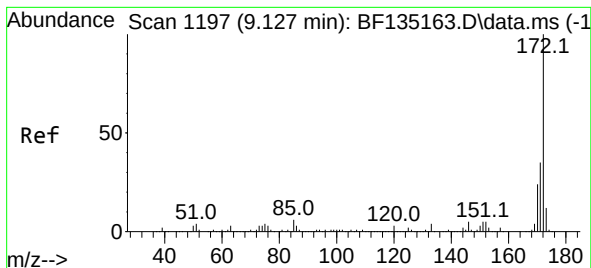
Delta R.T. -0.006 min

Lab File: BF135216.D

Acq: 13 Sep 2023 10:18

Tgt Ion:	330	Resp:	119
Ion Ratio	Lower	Upper	
330	100		
332	44.5	77.3	115.9#
141	179.8	25.8	38.8#





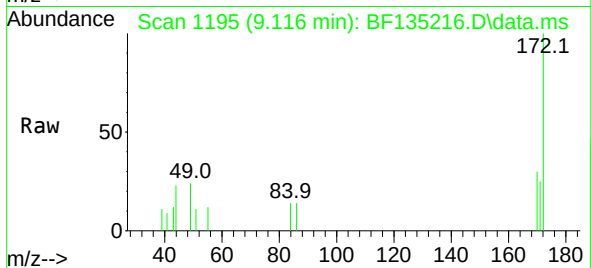
#45
2-Fluorobiphenyl
Concen: 0.134 ng
RT: 9.116 min Scan# 1195
Delta R.T. -0.011 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18

Instrument :

BNA_F

ClientSampleId :

SB-07(14-15)DL3



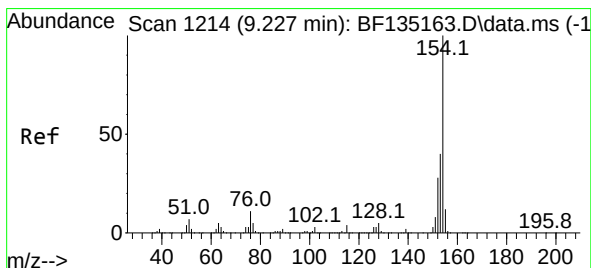
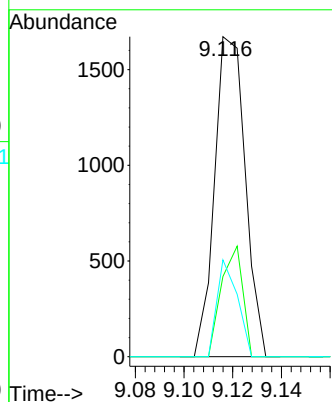
Tgt Ion:172 Resp: 1462
Ion Ratio Lower Upper
172 100
171 25.1 28.4 42.6
170 30.3 19.0 28.4

Manual Integrations

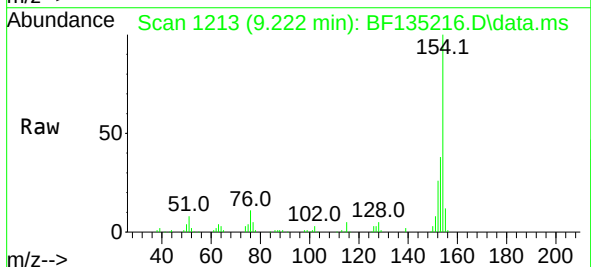
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Reviewed By :Yogesh Patel 09/13/2023

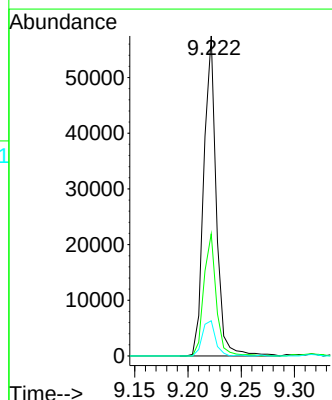
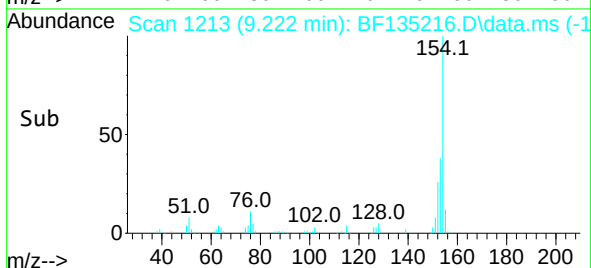
Supervised By :mohammad ahmed 09/14/2023

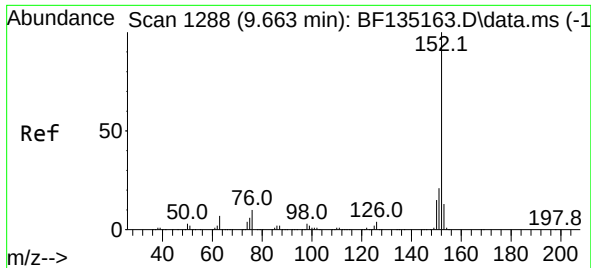


#46
1,1'-Biphenyl
Concen: 3.731 ng
RT: 9.222 min Scan# 1213
Delta R.T. -0.006 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18



Tgt Ion:154 Resp: 47130
Ion Ratio Lower Upper
154 100
153 38.1 19.6 59.6
76 11.0 0.0 31.0





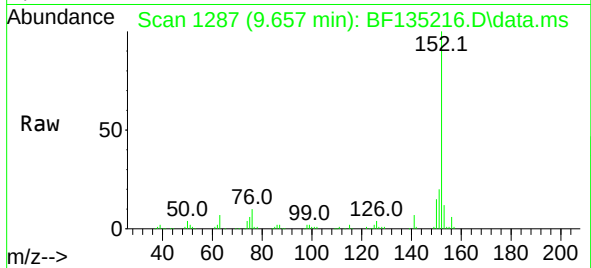
#49
Acenaphthylene
Concen: 3.341 ng
RT: 9.657 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18

Instrument :

BNA_F

ClientSampleId :

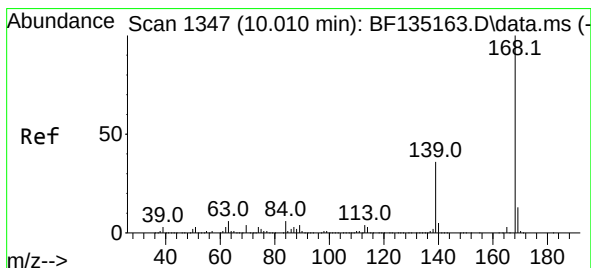
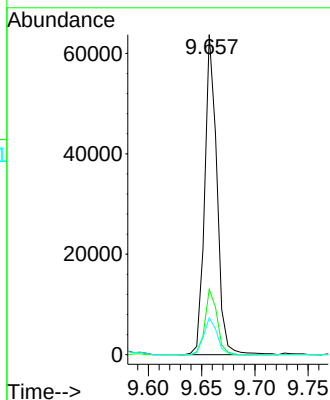
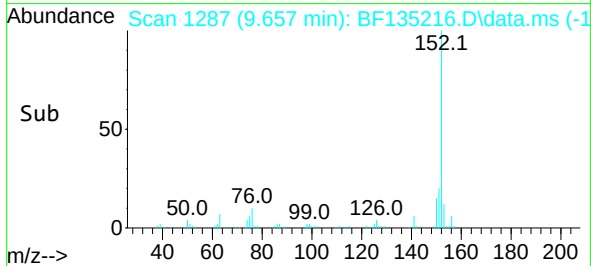
SB-07(14-15)DL3



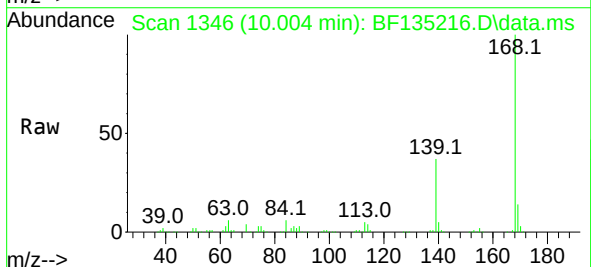
Tgt Ion:152 Resp: 50900
Ion Ratio Lower Upper
152 100
151 20.5 16.4 24.6
153 11.6 10.4 15.6

Manual Integrations
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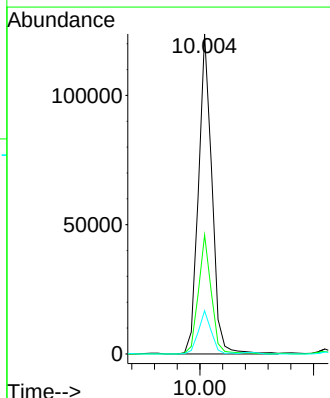
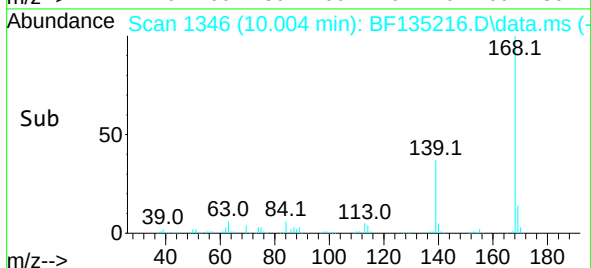
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023

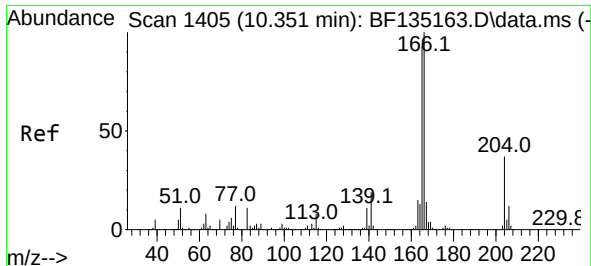


#55
Dibenzofuran
Concen: 7.416 ng
RT: 10.004 min Scan# 1346
Delta R.T. -0.006 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18



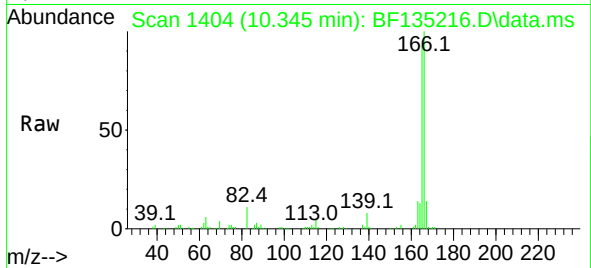
Tgt Ion:168 Resp: 101839
Ion Ratio Lower Upper
168 100
139 37.2 29.0 43.6
169 13.5 10.4 15.6





#58
Fluorene
Concen: 7.271 ng
RT: 10.345 min Scan# 1404
Delta R.T. -0.006 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18

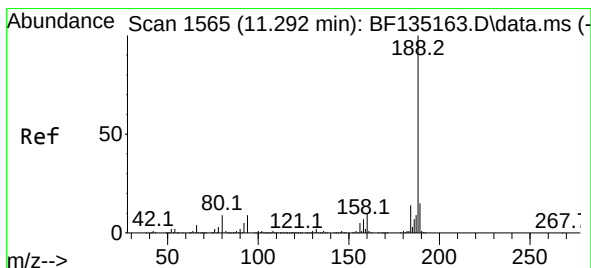
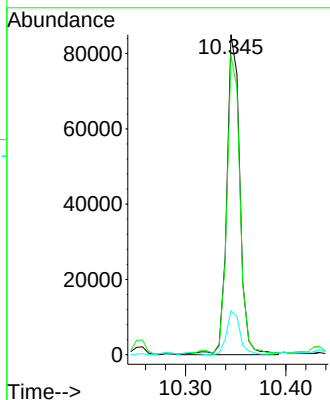
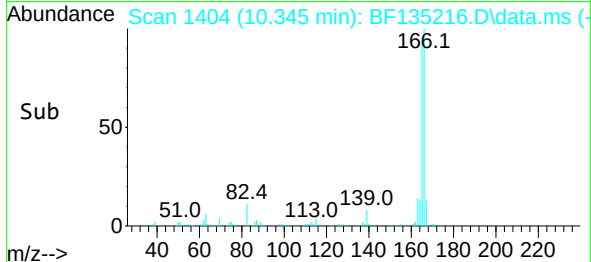
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL3



Tgt Ion:166 Resp: 76758
Ion Ratio Lower Upper
166 100
165 93.5 74.3 111.5
167 13.7 10.9 16.3

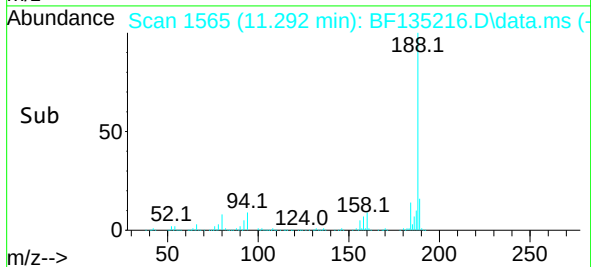
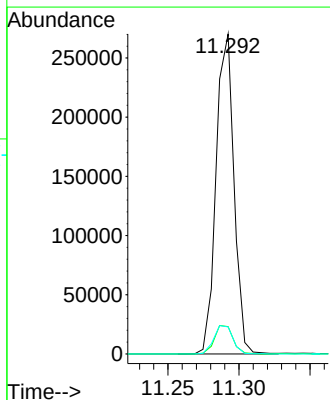
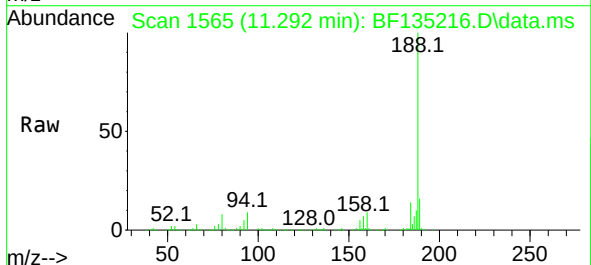
Manual Integrations
APPROVED

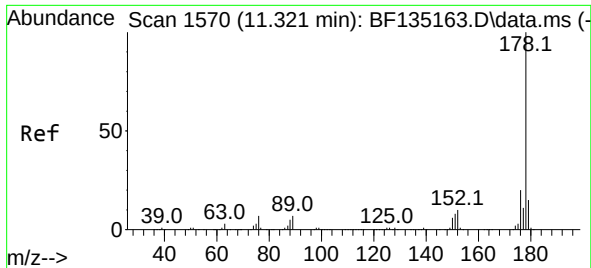
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.292 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18

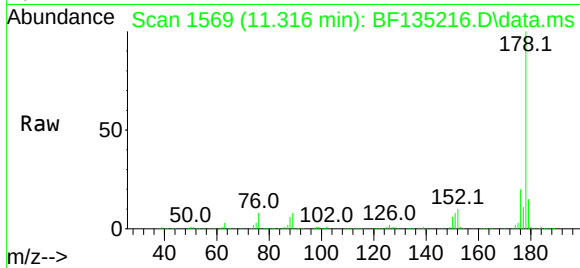
Tgt Ion:188 Resp: 236639
Ion Ratio Lower Upper
188 100
94 8.6 7.0 10.6
80 8.4 7.5 11.3





#71
Phenanthrene
Concen: 31.138 ng
RT: 11.316 min Scan# 1569
Delta R.T. -0.006 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18

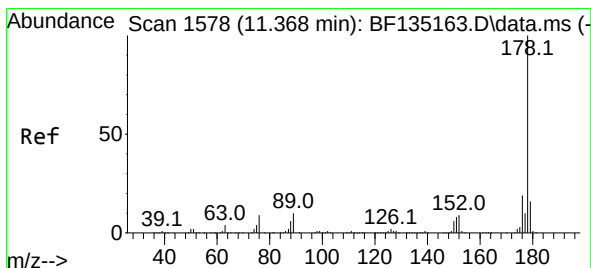
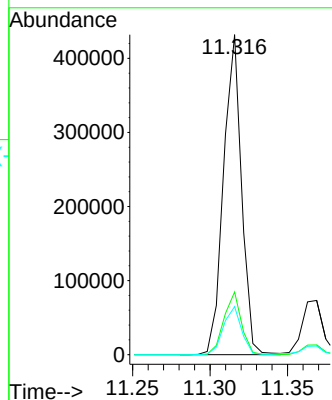
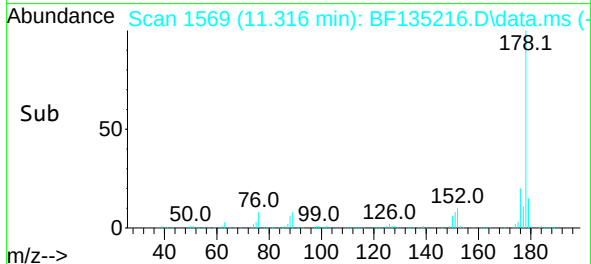
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL3



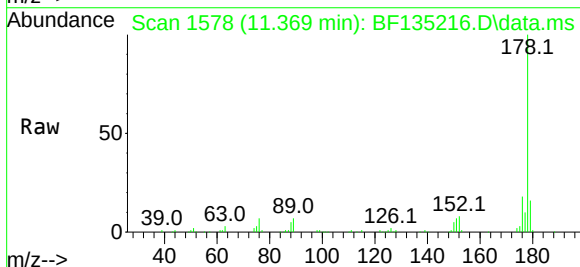
Tgt Ion:178 Resp: 34849
Ion Ratio Lower Upper
178 100
176 19.6 15.6 23.4
179 15.0 12.0 18.0

Manual Integrations
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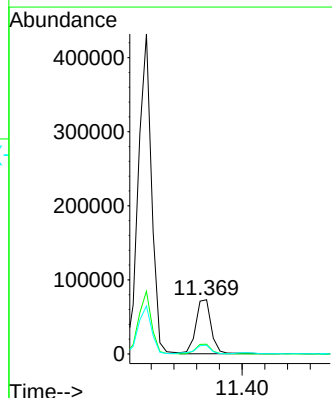
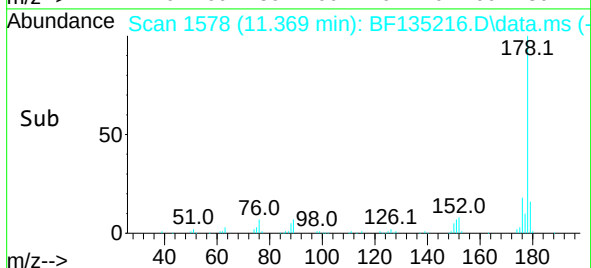
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023

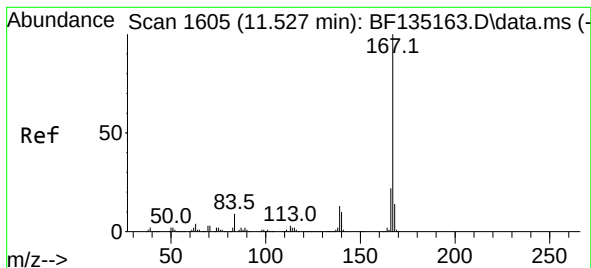


#72
Anthracene
Concen: 6.026 ng
RT: 11.369 min Scan# 1578
Delta R.T. 0.000 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18



Tgt Ion:178 Resp: 69327
Ion Ratio Lower Upper
178 100
176 17.9 15.4 23.2
179 15.9 12.6 19.0





#73

Carbazole

Concen: 2.863 ng

RT: 11.528 min Scan# 1605

Delta R.T. 0.000 min

Lab File: BF135216.D

Acq: 13 Sep 2023 10:18

Instrument :

BNA_F

ClientSampleId :

SB-07(14-15)DL3

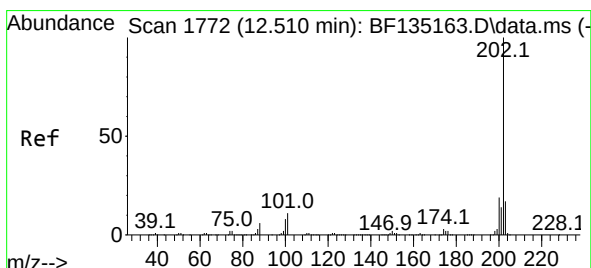
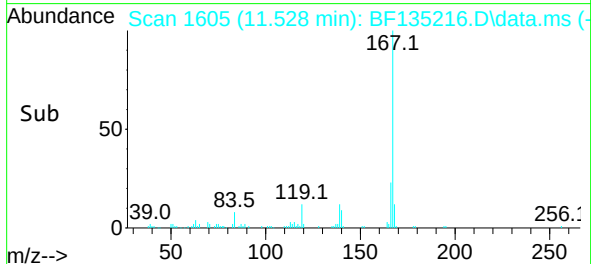
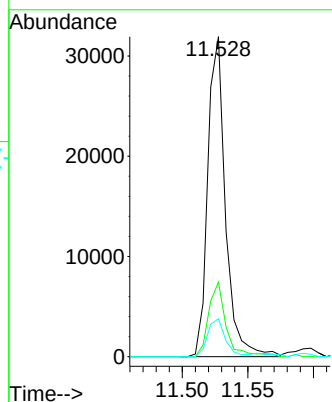
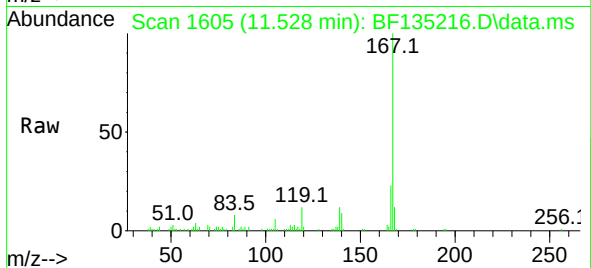
Tgt Ion:167	Resp: 29984
Ion Ratio	Lower Upper
167 100	
166 23.4	17.4 26.0
139 11.8	10.6 15.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/13/2023

Supervised By :mohammad ahmed 09/14/2023



#75

Fluoranthene

Concen: 20.805 ng

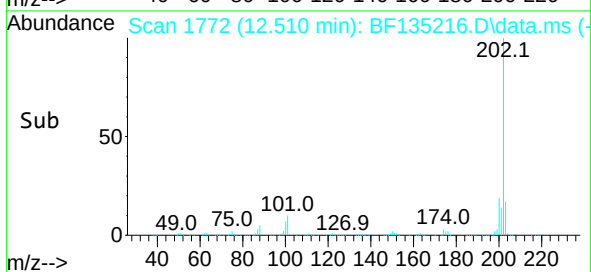
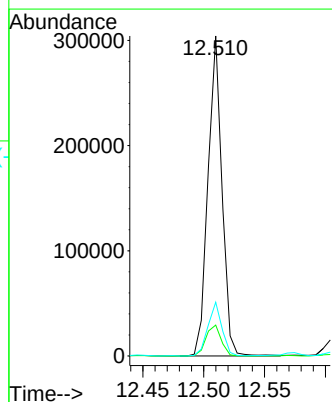
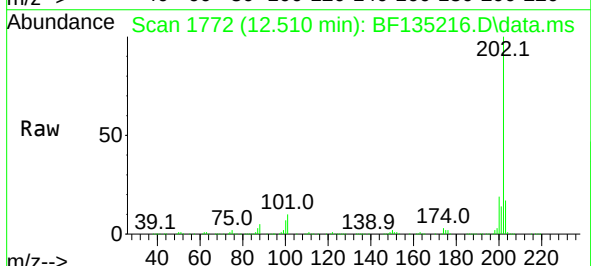
RT: 12.510 min Scan# 1772

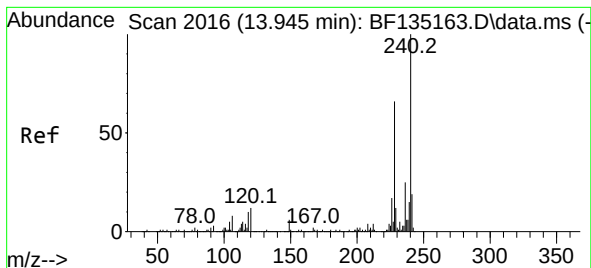
Delta R.T. 0.000 min

Lab File: BF135216.D

Acq: 13 Sep 2023 10:18

Tgt Ion:202	Resp: 242624
Ion Ratio	Lower Upper
202 100	
101 9.7	0.0 31.3
203 16.8	0.0 37.4





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.945 min Scan# 2016

Delta R.T. 0.000 min

Lab File: BF135216.D

Acq: 13 Sep 2023 10:18

Instrument :

BNA_F

ClientSampleId :

SB-07(14-15)DL3

Tgt Ion:240 Resp: 20287

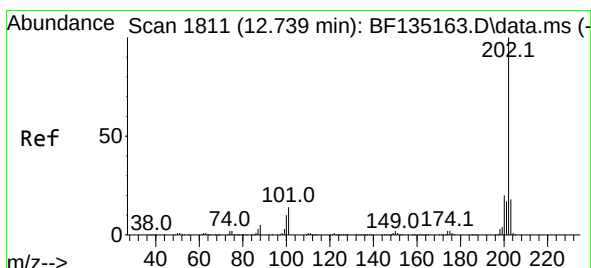
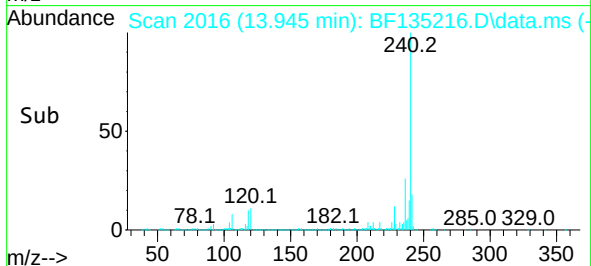
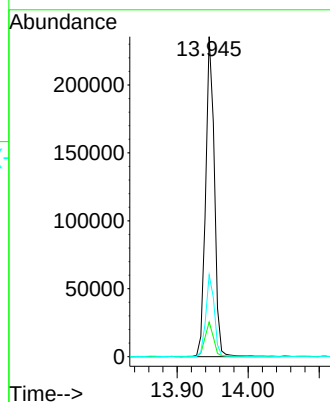
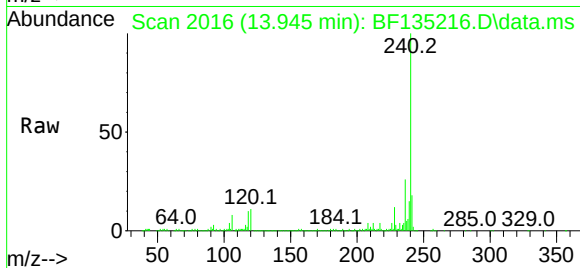
Ion	Ratio	Lower	Upper
240	100		
120	10.9	9.4	14.2
236	25.6	19.8	29.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/13/2023

Supervised By :mohammad ahmed 09/14/2023



#78

Pyrene

Concen: 10.553 ng

RT: 12.739 min Scan# 1811

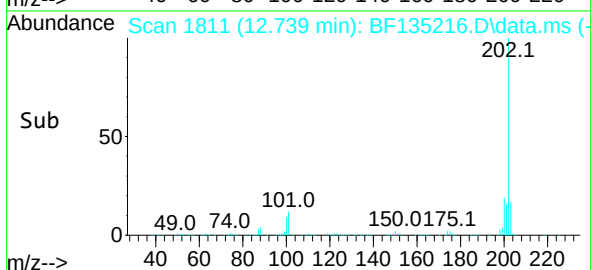
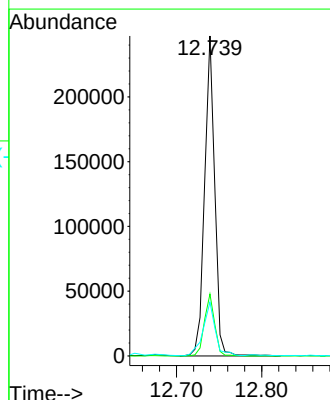
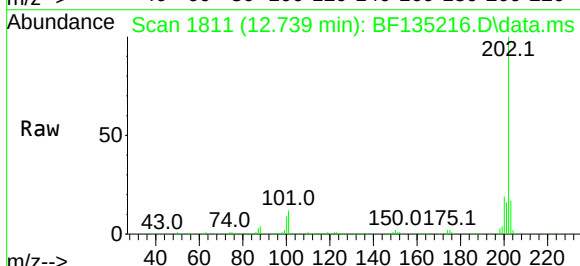
Delta R.T. 0.000 min

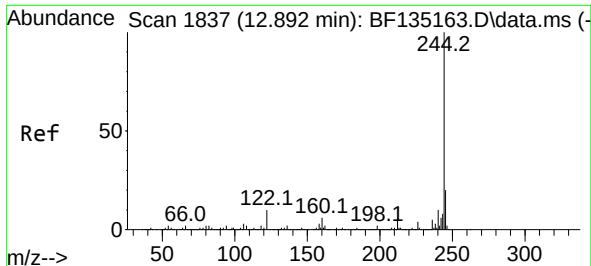
Lab File: BF135216.D

Acq: 13 Sep 2023 10:18

Tgt Ion:202 Resp: 203824

Ion	Ratio	Lower	Upper
202	100		
200	19.3	16.2	24.2
203	16.8	14.2	21.4





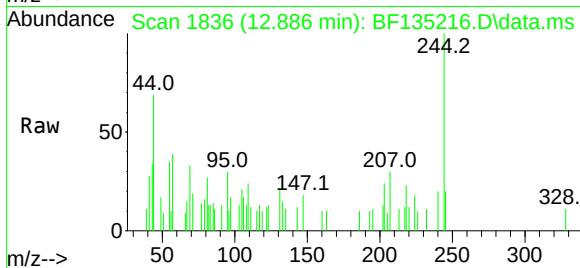
#79
 Terphenyl-d14
 Concen: 0.118 ng
 RT: 12.886 min Scan# 11
 Delta R.T. -0.006 min
 Lab File: BF135216.D
 Acq: 13 Sep 2023 10:18

Instrument :

BNA_F

ClientSampleId :

SB-07(14-15)DL3

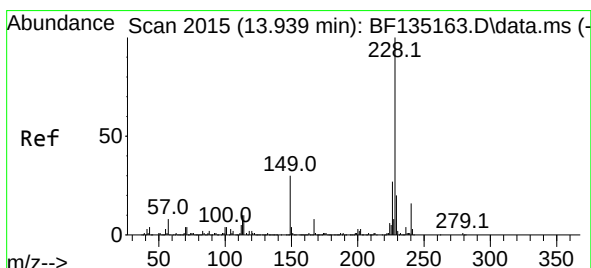
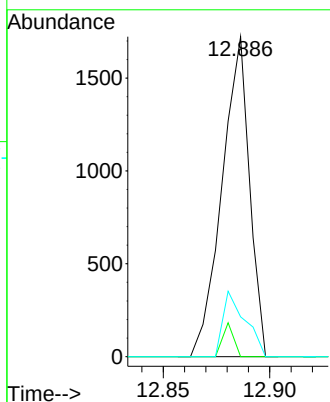
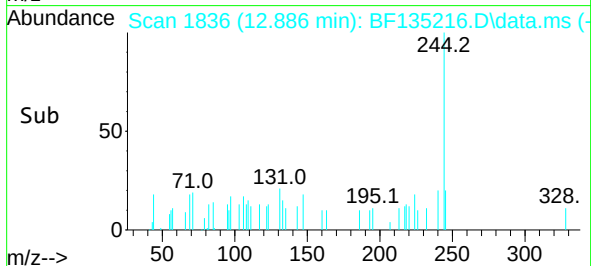


Tgt Ion:244 Resp: 1540
 Ion Ratio Lower Upper
 244 100
 212 0.0 5.1 7.7
 122 12.4 7.9 11.9

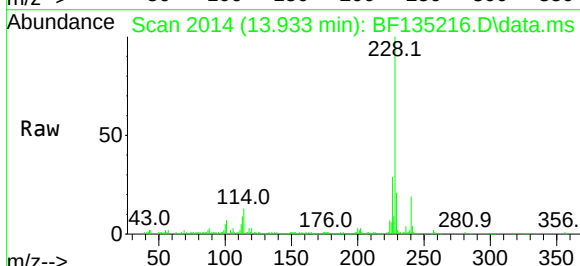
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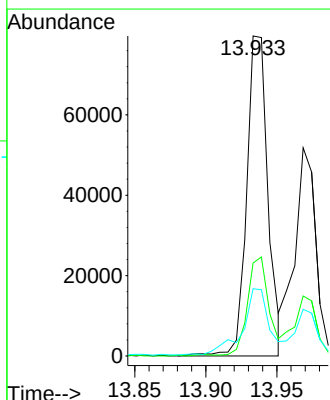
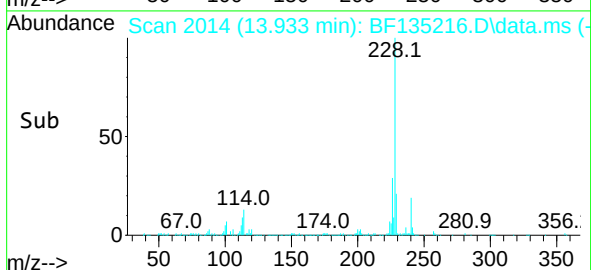
Reviewed By :Yogesh Patel 09/13/2023
 Supervised By :mohammad ahmed 09/14/2023

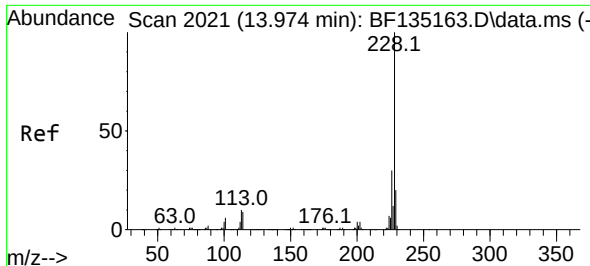


#81
 Benzo(a)anthracene
 Concen: 6.316 ng
 RT: 13.933 min Scan# 2014
 Delta R.T. -0.006 min
 Lab File: BF135216.D
 Acq: 13 Sep 2023 10:18



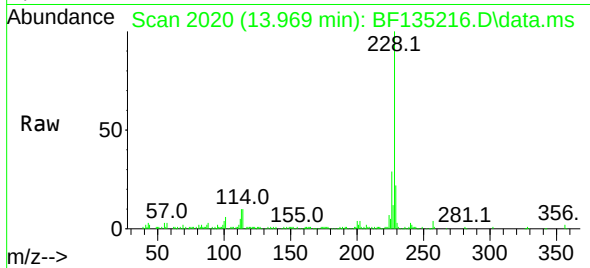
Tgt Ion:228 Resp: 82742
 Ion Ratio Lower Upper
 228 100
 226 29.0 21.7 32.5
 229 21.0 15.8 23.8





#83
Chrysene
Concen: 4.225 ng
RT: 13.969 min Scan# 2021
Delta R.T. -0.006 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18

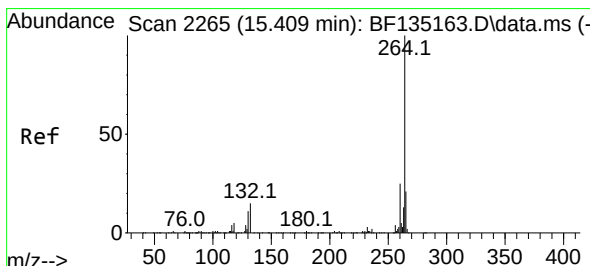
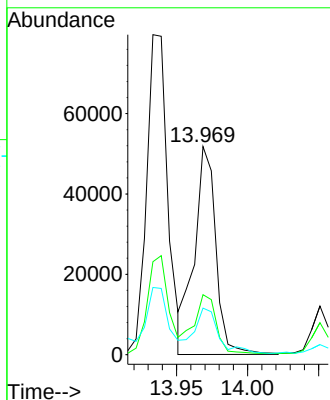
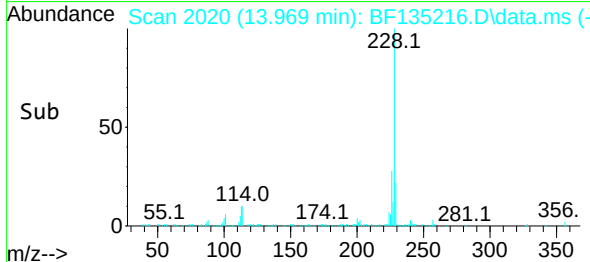
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL3



Tgt Ion:228 Resp: 55029
Ion Ratio Lower Upper
228 100
226 28.8 24.3 36.5
229 22.4 16.0 24.0

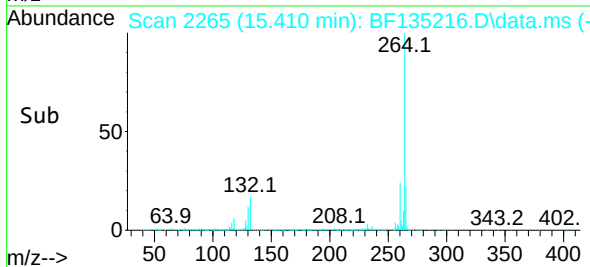
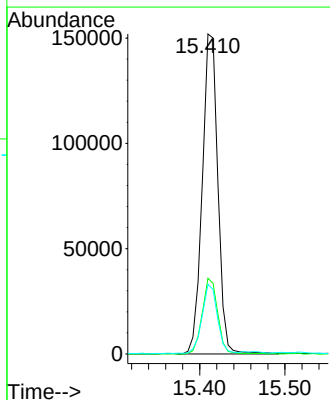
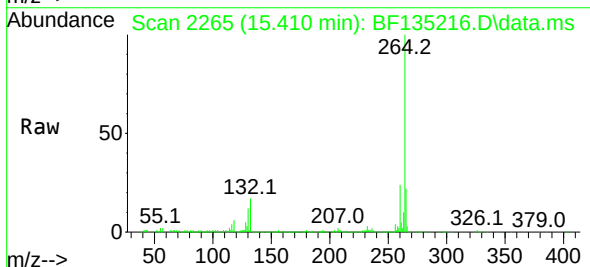
Manual Integrations
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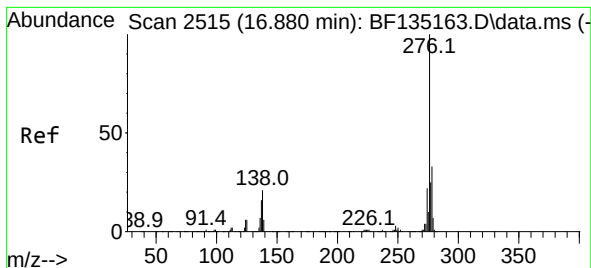
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.410 min Scan# 2265
Delta R.T. 0.000 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18

Tgt Ion:264 Resp: 193687
Ion Ratio Lower Upper
264 100
260 23.6 19.8 29.6
265 21.8 17.0 25.4





#87

Indeno(1,2,3-cd)pyrene

Concen: 2.211 ng

RT: 16.880 min Scan# 2115

Delta R.T. 0.000 min

Lab File: BF135216.D

Acq: 13 Sep 2023 10:18

Instrument :

BNA_F

ClientSampleId :

SB-07(14-15)DL3

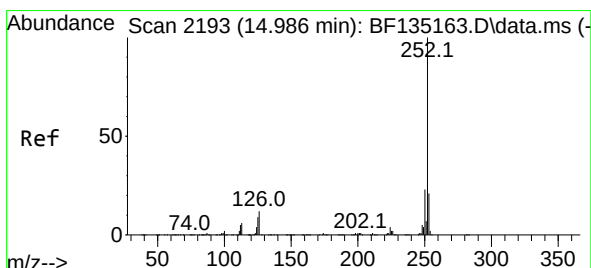
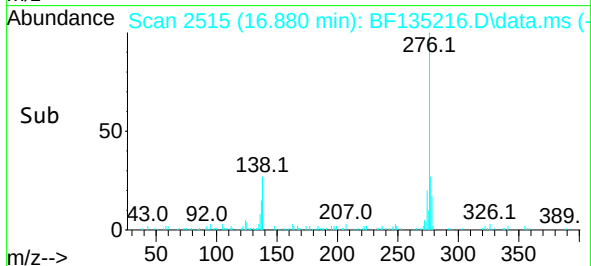
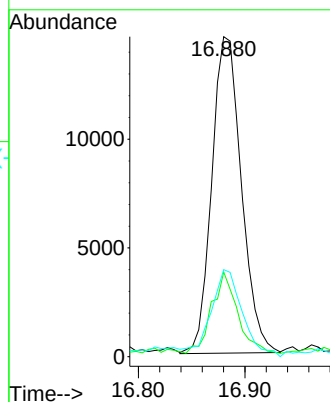
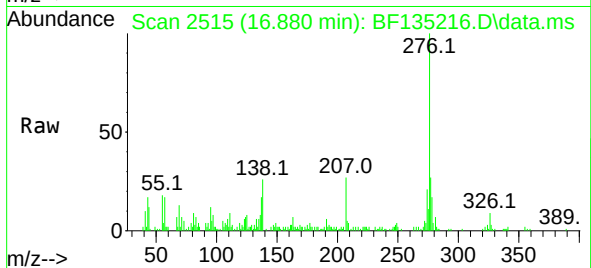
Tgt Ion:	276	Resp:	2808
Ion Ratio	Lower	Upper	
276	100		
138	25.4	19.2	28.8
277	28.8	19.7	29.5

Manual Integrations

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Reviewed By :Yogesh Patel 09/13/2023

Supervised By :mohammad ahmed 09/14/2023



#88

Benzo(b)fluoranthene

Concen: 7.216 ng m

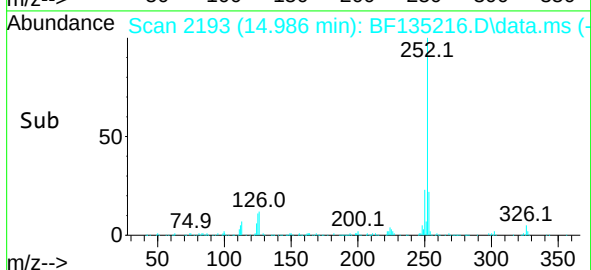
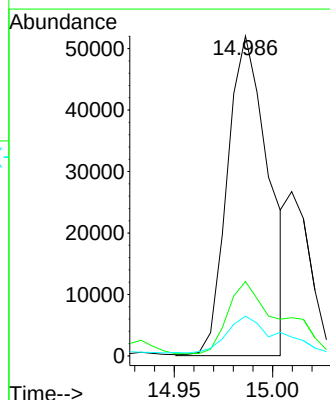
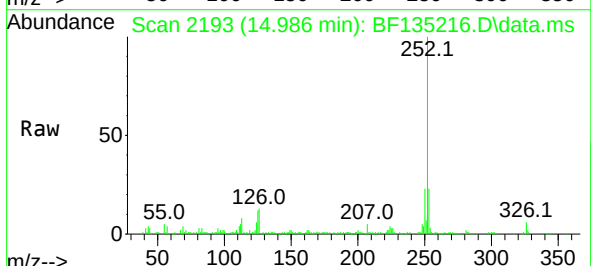
RT: 14.986 min Scan# 2193

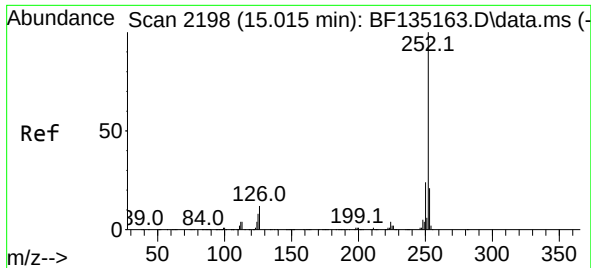
Delta R.T. 0.000 min

Lab File: BF135216.D

Acq: 13 Sep 2023 10:18

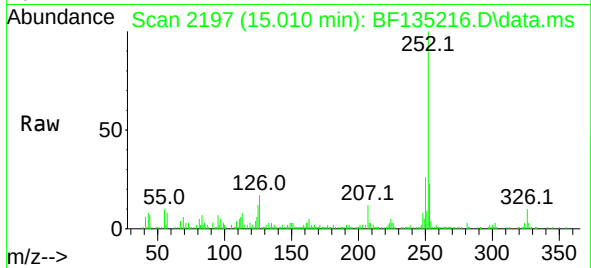
Tgt Ion:	252	Resp:	75660
Ion Ratio	Lower	Upper	
252	100		
253	23.2	17.2	25.8
125	12.5	7.1	10.7





#89
Benzo(k)fluoranthene
Concen: 2.214 ng m
RT: 15.010 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18

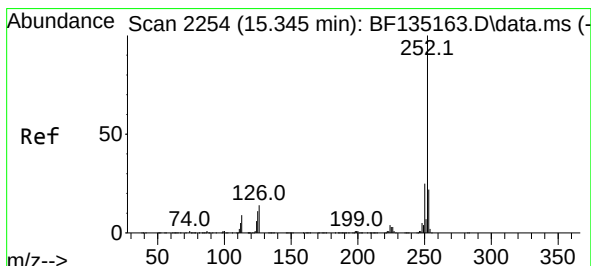
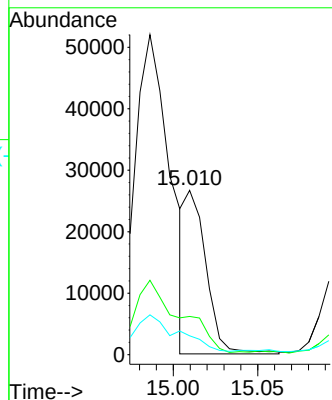
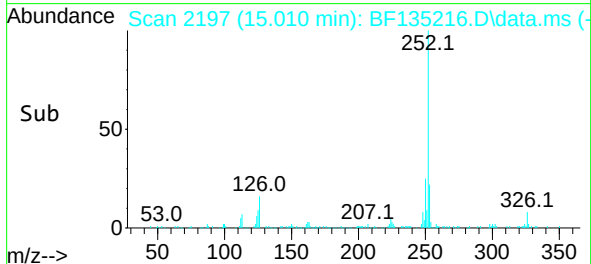
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL3



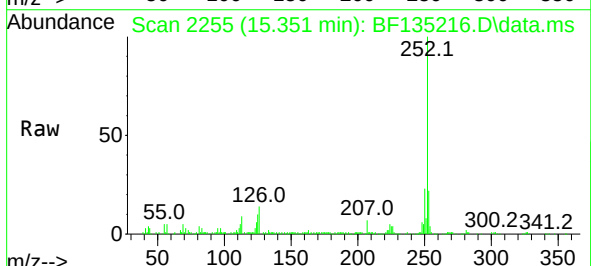
Tgt Ion:252 Resp: 2293
Ion Ratio Lower Upper
252 100
253 23.3 17.4 26.0
125 11.5 7.2 10.8

Manual Integrations
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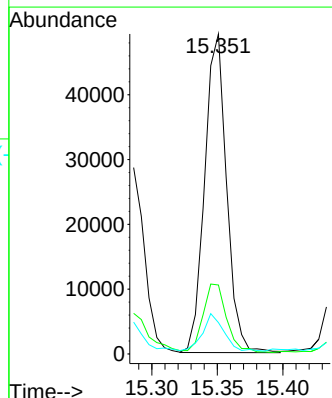
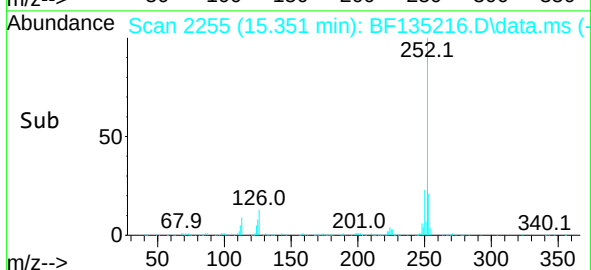
Reviewed By :Yogesh Patel 09/13/2023
Supervised By :mohammad ahmed 09/14/2023

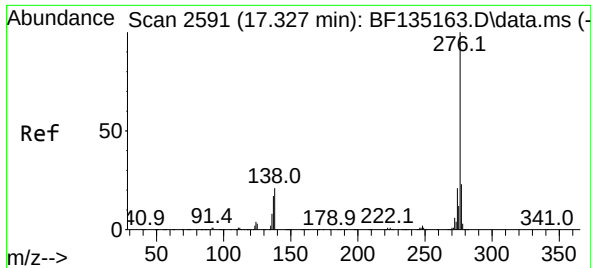


#90
Benzo(a)pyrene
Concen: 5.738 ng
RT: 15.351 min Scan# 2255
Delta R.T. 0.006 min
Lab File: BF135216.D
Acq: 13 Sep 2023 10:18



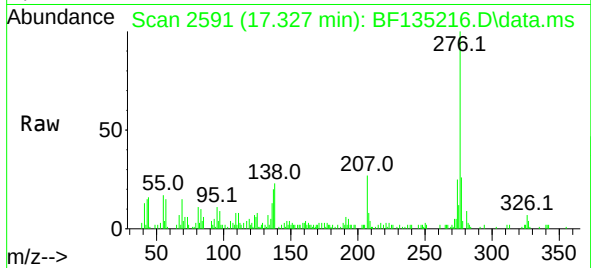
Tgt Ion:252 Resp: 57375
Ion Ratio Lower Upper
252 100
253 21.6 17.5 26.3
125 9.8 9.2 13.8





#92
 Benzo(g,h,i)perylene
 Concen: 2.363 ng
 RT: 17.327 min Scan# 2591
 Delta R.T. 0.000 min
 Lab File: BF135216.D
 Acq: 13 Sep 2023 10:18

Instrument :
 BNA_F
 ClientSampleId :
 SB-07(14-15)DL3



Tgt Ion:	276	Resp:	2564
Ion Ratio	Lower	Upper	
276	100		
277	26.5	18.8	28.2
138	23.0	16.9	25.3

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/13/2023
 Supervised By :mohammad ahmed 09/14/2023

