

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF090723\
 Data File : BF135142.D
 Acq On : 07 Sep 2023 19:39
 Operator : CG\JU
 Sample : 04189-03DL2 500X
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SB-07(14-15)DL2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 09/08/2023
 Supervised By :mohammad ahmed 09/09/2023

Quant Time: Sep 08 01:53:55 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF083023.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Aug 31 03:48:08 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.769	152	89694	20.000	ng	0.00
21) Naphthalene-d8	8.051	136	366602	20.000	ng	0.00
39) Acenaphthene-d10	9.810	164	181780	20.000	ng	0.00
64) Phenanthrene-d10	11.304	188	315665	20.000	ng	0.00
76) Chrysene-d12	13.957	240	153381	20.000	ng	0.00
86) Perylene-d12	15.427	264	179777	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.404	112	1125	0.194	ng	0.00
7) Phenol-d6	6.410	99	1628	0.225	ng	0.00
23) Nitrobenzene-d5	7.334	82	1236	0.189	ng	-0.01
42) 2,4,6-Tribromophenol	10.604	330	433	0.225	ng	0.00
45) 2-Fluorobiphenyl	9.128	172	2400	0.215	ng	-0.01
79) Terphenyl-d14	12.892	244	2672	0.284	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.081	128	1905444	106.400	ng	99
37) 2-Methylnaphthalene	8.763	142	288040	24.106	ng	96
38) 1-Methylnaphthalene	8.863	142	156729	14.018	ng	99
46) 1,1'-Biphenyl	9.228	154	88683	6.385	ng	98
49) Acenaphthylene	9.669	152	101420	6.424	ng	98
52) Acenaphthene	9.839	154	38438	3.820	ng	97
55) Dibenzofuran	10.016	168	214751	14.797	ng	100
58) Fluorene	10.357	166	173180	15.652	ng	100
71) Phenanthrene	11.327	178	877940	53.910	ng	99
72) Anthracene	11.374	178	187509	11.269	ng	99
73) Carbazole	11.533	167	75430	5.256	ng	99
75) Fluoranthene	12.521	202	507686	30.834	ng	99
78) Pyrene	12.751	202	397539	27.298	ng	99
81) Benzo(a)anthracene	13.945	228	130222	12.446	ng	97
83) Chrysene	13.980	228	78450	7.630	ng	96
87) Indeno(1,2,3-cd)pyrene	16.904	276	62798	5.186	ng	96
88) Benzo(b)fluoranthene	14.998	252	132473m	11.843	ng	
89) Benzo(k)fluoranthene	15.021	252	38782m	3.589	ng	
90) Benzo(a)pyrene	15.362	252	109662	10.553	ng	97
92) Benzo(g,h,i)perylene	17.345	276	54434	5.336	ng	99

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

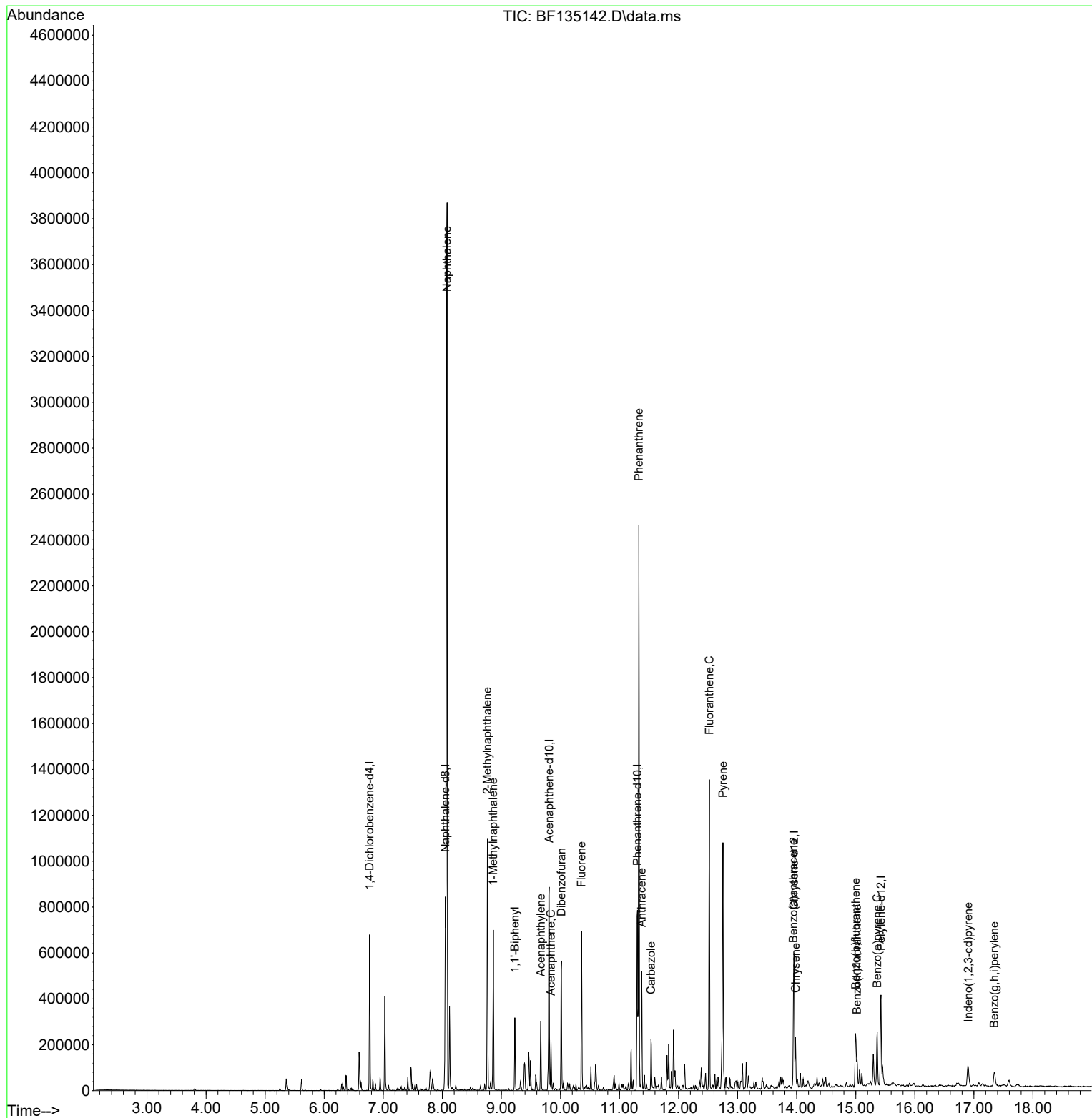
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF090723\
Data File : BF135142.D
Acq On : 07 Sep 2023 19:39
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ALS Vial : 18 Sample Multiplier: 1

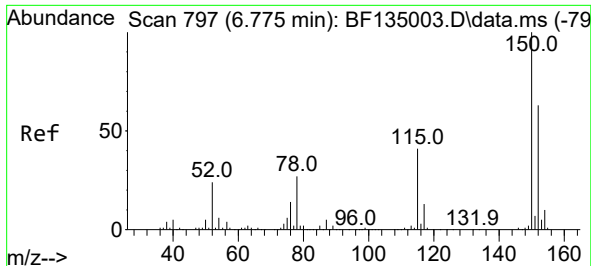
Instrument :
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Quant Time: Sep 08 01:53:55 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF083023.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Thu Aug 31 03:48:08 2023
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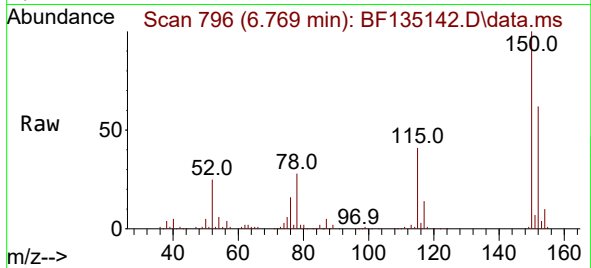
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.769 min Scan# 797
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

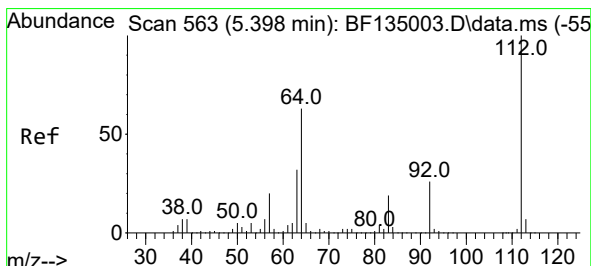
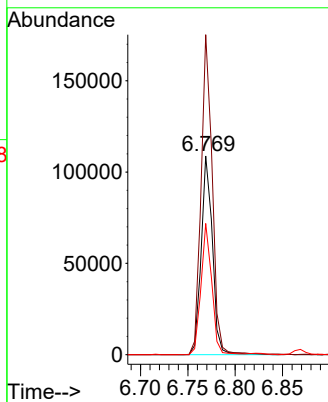
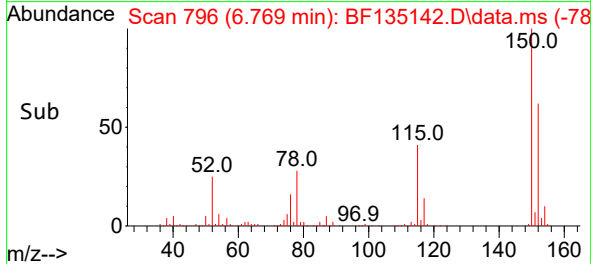
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL2



Tgt Ion:152 Resp: 89694
Ion Ratio Lower Upper
152 100
150 161.1 126.2 189.4
115 66.0 51.2 76.8

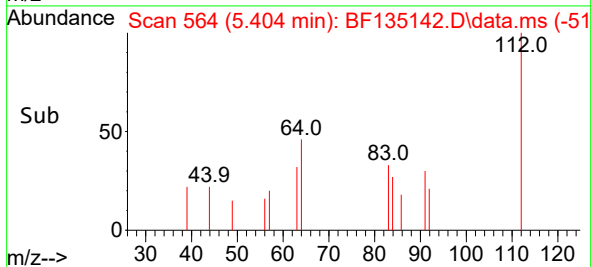
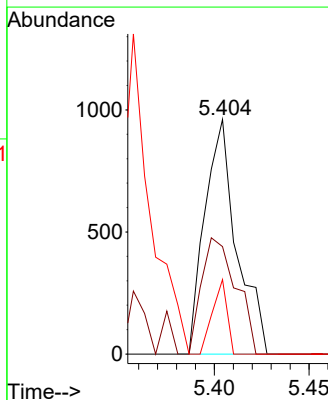
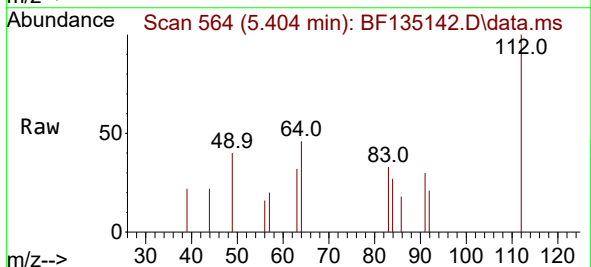
Manual Integrations
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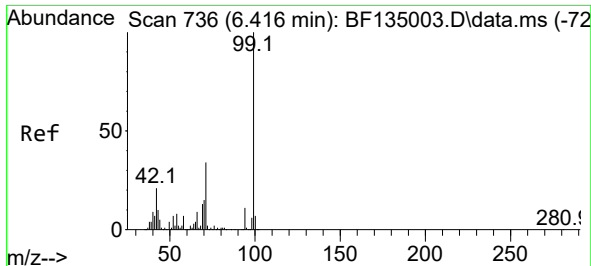
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023



#5
2-Fluorophenol
Concen: 0.194 ng
RT: 5.404 min Scan# 564
Delta R.T. 0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

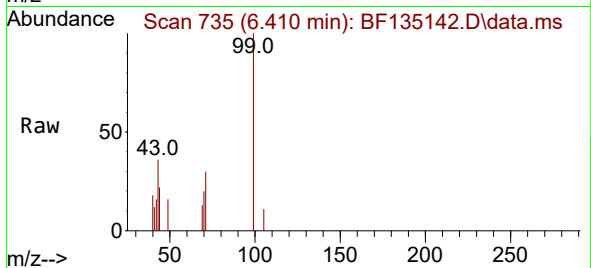
Tgt Ion:112 Resp: 1125
Ion Ratio Lower Upper
112 100
64 45.8 50.5 75.7#
63 31.7 25.9 38.9





#7
Phenol-d6
Concen: 0.225 ng
RT: 6.410 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

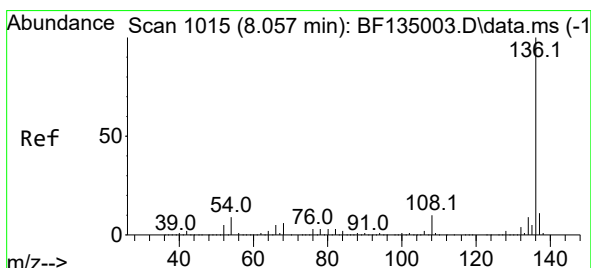
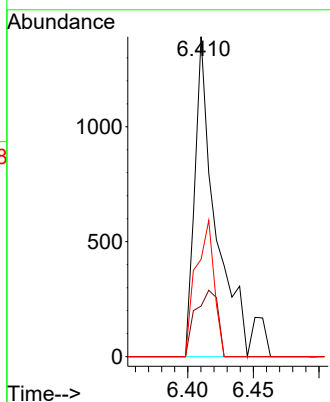
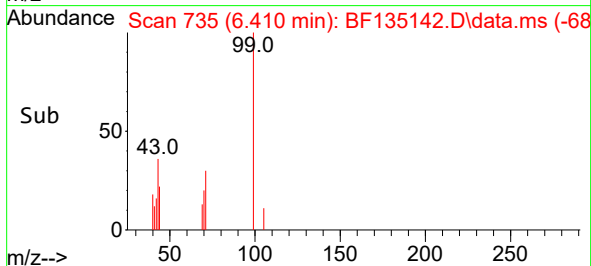
Instrument :
BNA_F
ClientSampleId :
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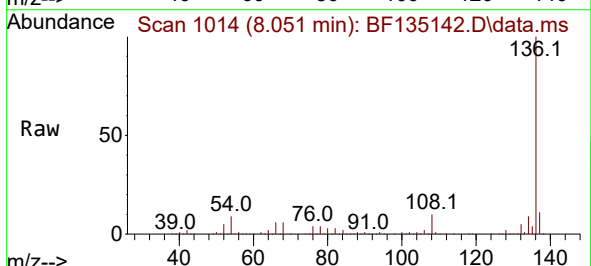
Tgt Ion: 99 Resp: 1628
Ion Ratio Lower Upper
99 100
42 15.8 16.6 25.0
71 30.4 27.0 40.6

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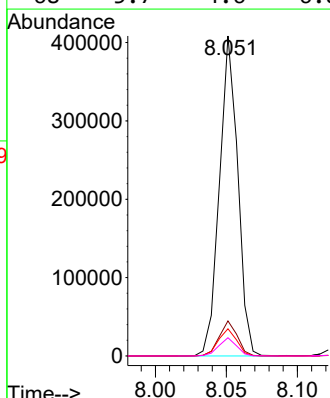
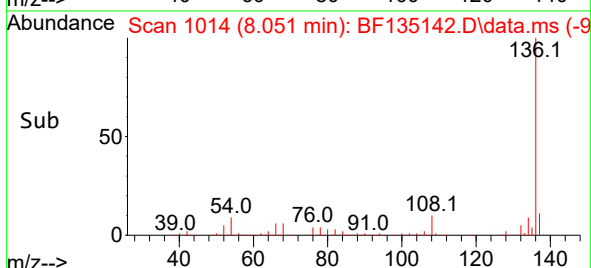
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023

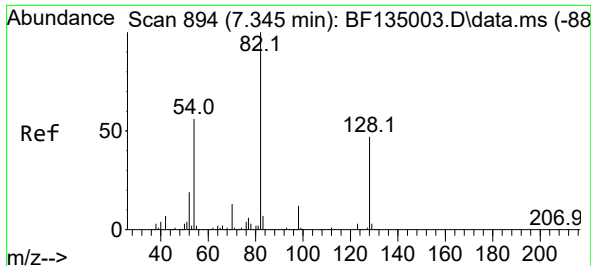


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.051 min Scan# 1014
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39



Tgt Ion:136 Resp: 366602
Ion Ratio Lower Upper
136 100
137 10.9 8.8 13.2
54 8.5 7.0 10.4
68 5.7 4.6 6.8





#23

Nitrobenzene-d5

Concen: 0.189 ng

RT: 7.334 min Scan# 894

Delta R.T. -0.012 min

Lab File: BF135142.D

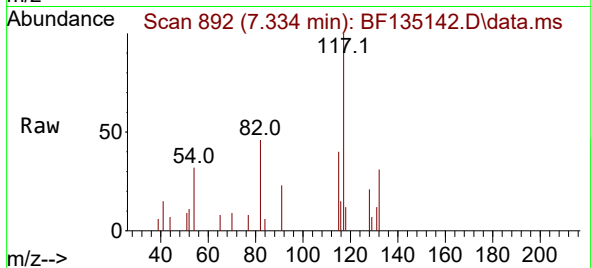
Acq: 07 Sep 2023 19:39

Instrument :

BNA_F

ClientSampleId :

SB-07(14-15)DL2



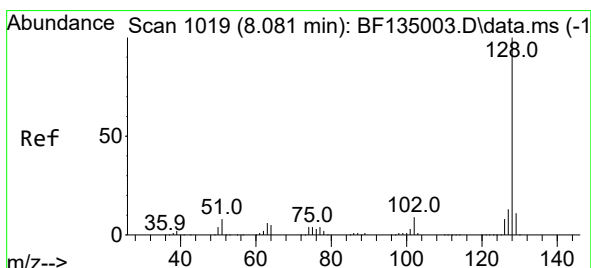
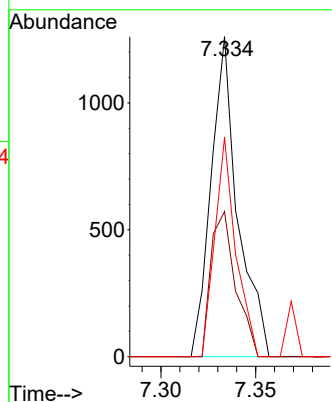
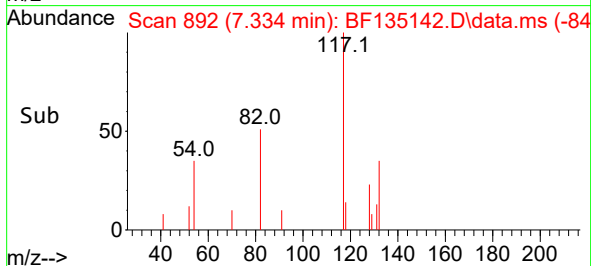
Tgt Ion: 82	Resp: 1230
Ion Ratio	Lower Upper
82	100
128	45.4 37.8 56.8
54	68.5 45.0 67.6

Manual Integrations

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Supervised By :mohammad ahmed 09/09/2023



#31

Naphthalene

Concen: 106.400 ng

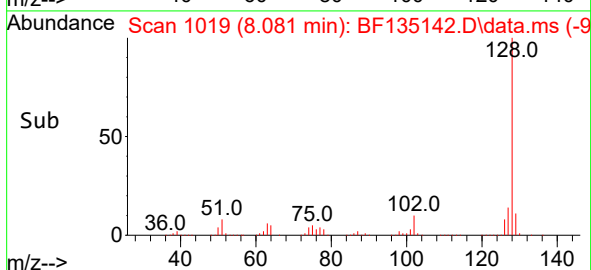
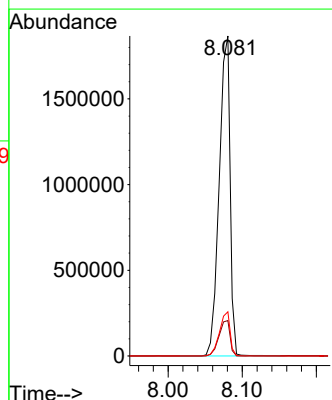
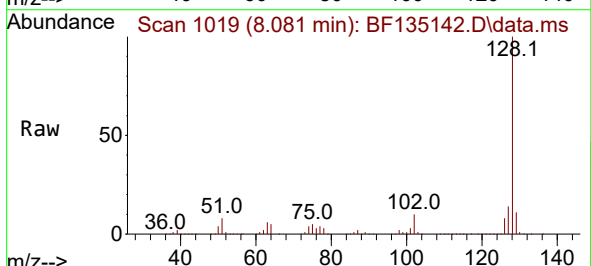
RT: 8.081 min Scan# 1019

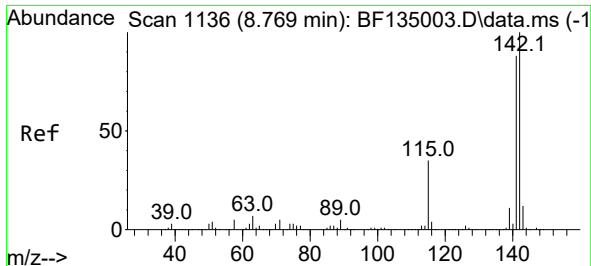
Delta R.T. -0.000 min

Lab File: BF135142.D

Acq: 07 Sep 2023 19:39

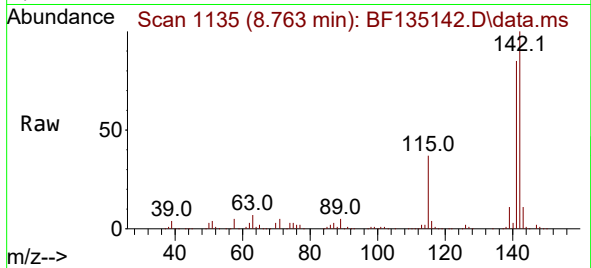
Tgt Ion:128	Resp: 1905444
Ion Ratio	Lower Upper
128	100
129	11.1 8.6 13.0
127	13.8 10.6 16.0





#37
2-Methylnaphthalene
Concen: 24.106 ng
RT: 8.763 min Scan# 1135
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

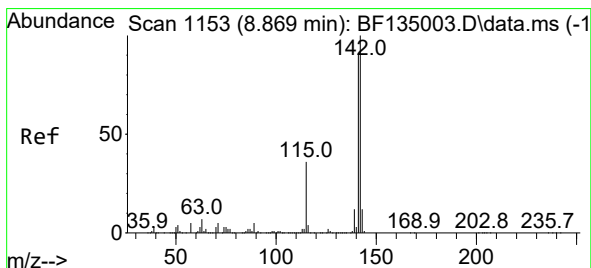
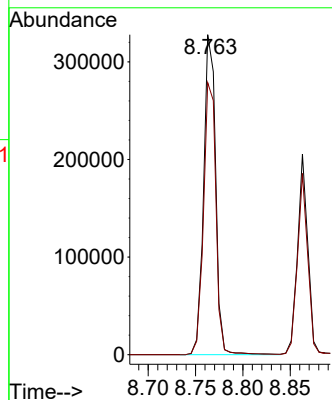
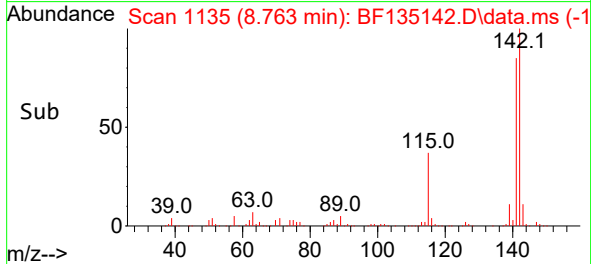
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL2



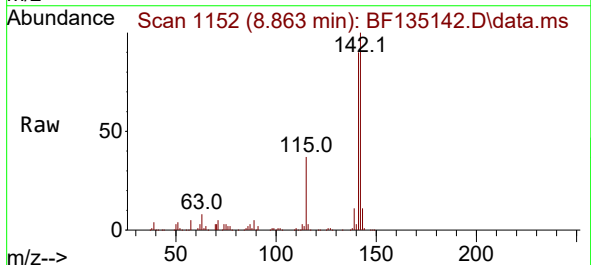
Tgt Ion:142 Resp: 288040
Ion Ratio Lower Upper
142 100
141 85.0 70.7 106.1

Manual Integrations
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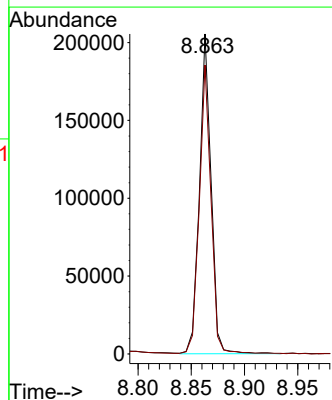
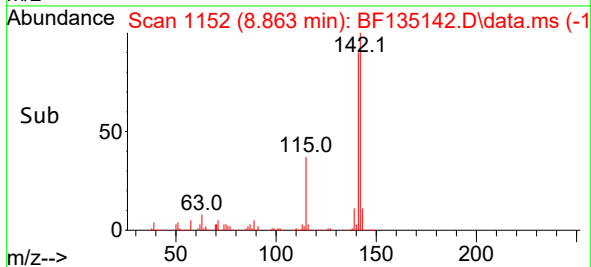
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023

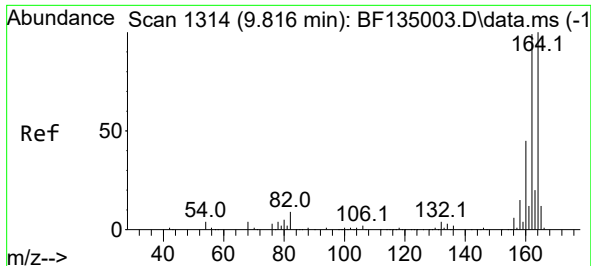


#38
1-Methylnaphthalene
Concen: 14.018 ng
RT: 8.863 min Scan# 1152
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39



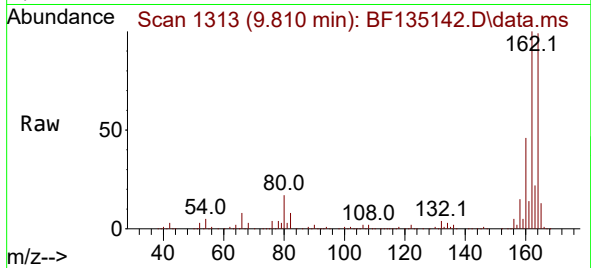
Tgt Ion:142 Resp: 156729
Ion Ratio Lower Upper
142 100
141 90.3 73.0 109.4





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.810 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

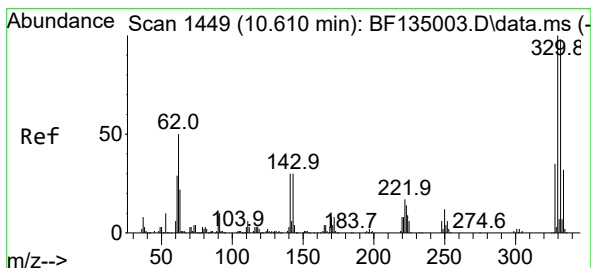
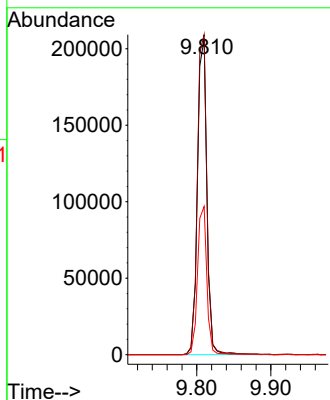
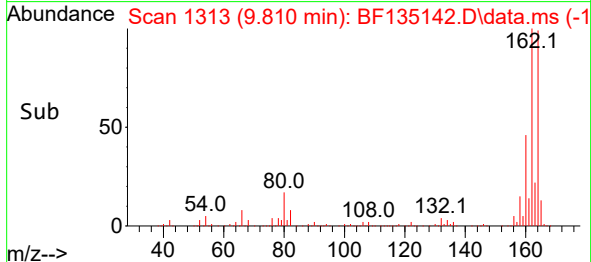
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL2



Tgt Ion:164 Resp: 181780
Ion Ratio Lower Upper
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162 101.3 79.5 119.3
160 46.9 36.0 54.0

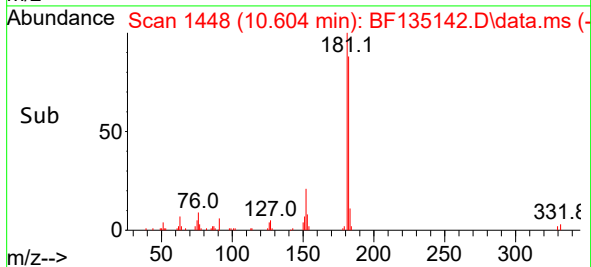
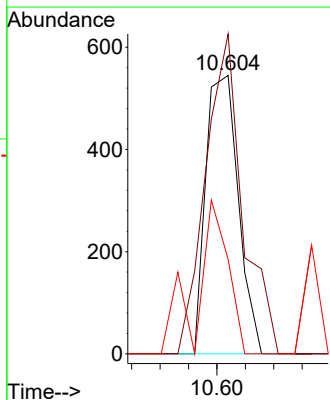
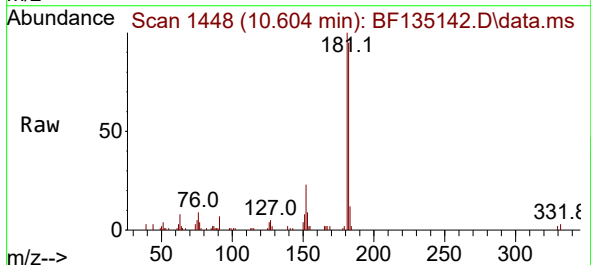
Manual Integrations
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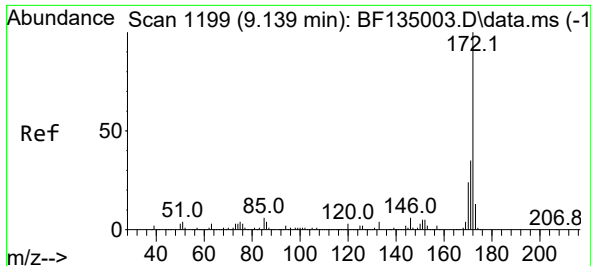
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023



#42
2,4,6-Tribromophenol
Concen: 0.225 ng
RT: 10.604 min Scan# 1448
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

Tgt Ion:330 Resp: 433
Ion Ratio Lower Upper
330 100
332 130.5 77.6 116.4#
141 52.7 26.3 39.5#





#45

2-Fluorobiphenyl

Concen: 0.215 ng

RT: 9.128 min Scan# 1199

Delta R.T. -0.012 min

Lab File: BF135142.D

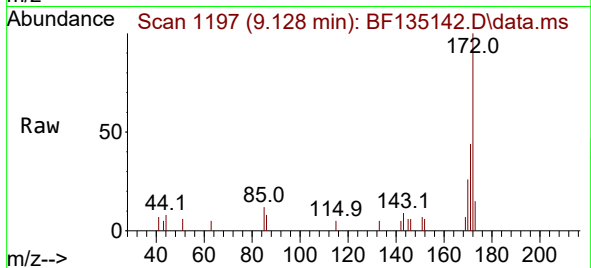
Acq: 07 Sep 2023 19:39

Instrument :

BNA_F

ClientSampleId :

SB-07(14-15)DL2



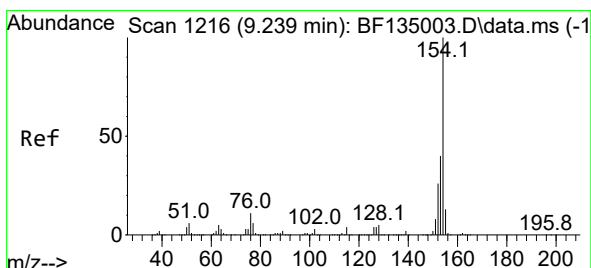
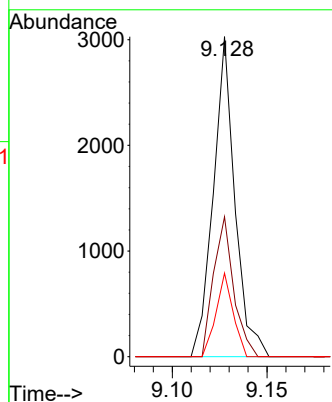
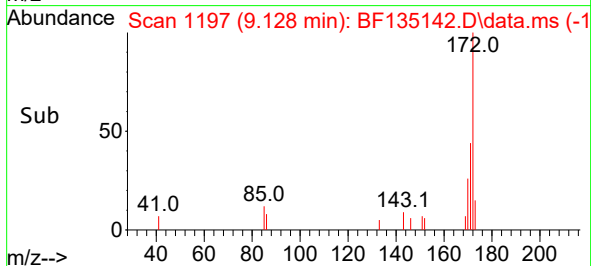
Tgt Ion:	172	Resp:	2400
Ion Ratio	Lower	Upper	
172	100		
171	43.7	28.2	42.2
170	26.1	19.0	28.4

Manual Integrations

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Supervised By :mohammad ahmed 09/09/2023



#46

1,1'-Biphenyl

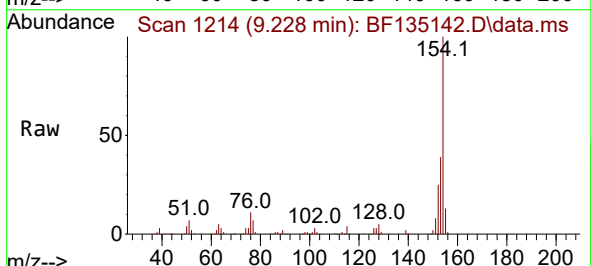
Concen: 6.385 ng

RT: 9.228 min Scan# 1214

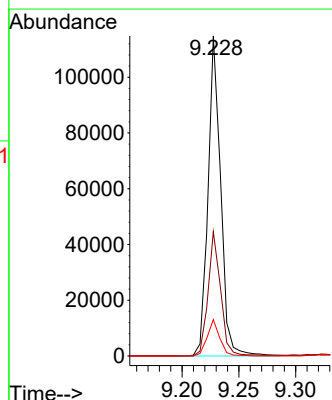
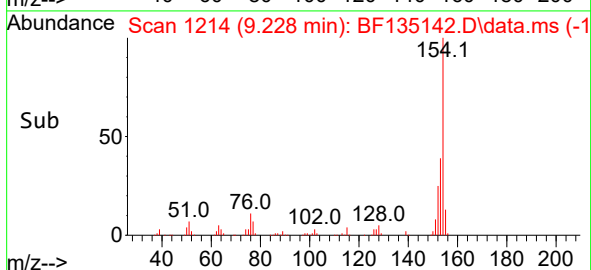
Delta R.T. -0.012 min

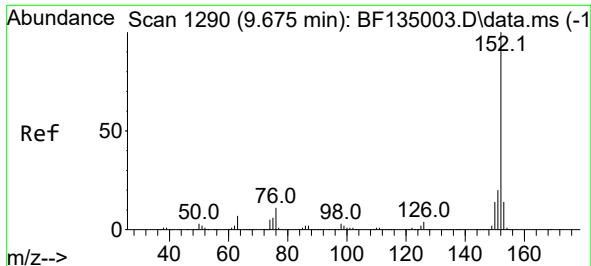
Lab File: BF135142.D

Acq: 07 Sep 2023 19:39



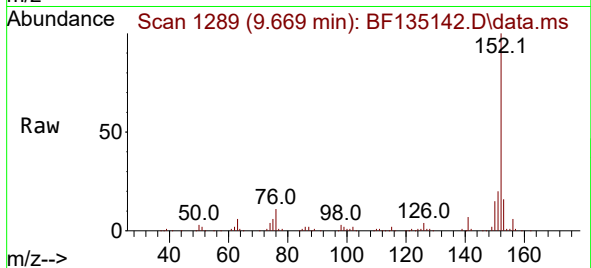
Tgt Ion:	154	Resp:	88683
Ion Ratio	Lower	Upper	
154	100		
153	38.9	20.2	60.2
76	11.3	0.0	31.2





#49
Acenaphthylene
Concen: 6.424 ng
RT: 9.669 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

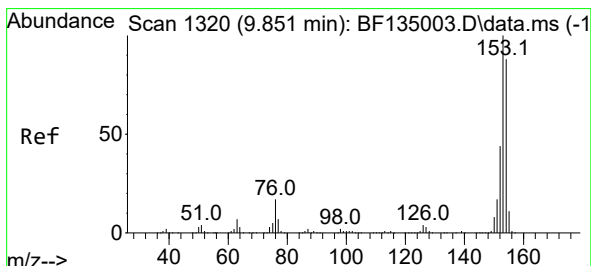
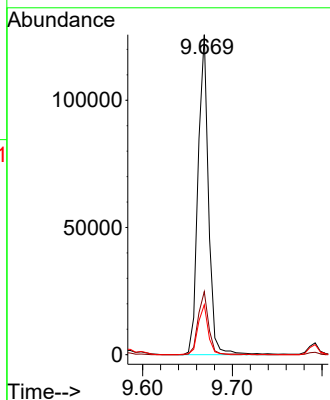
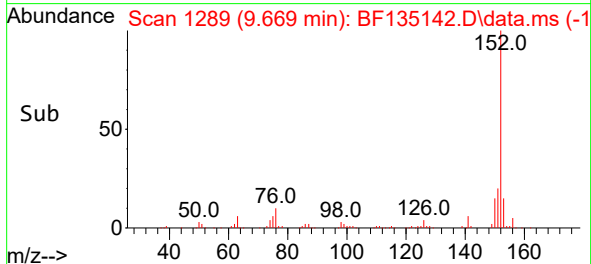
Instrument :
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SB-07(14-15)DL2



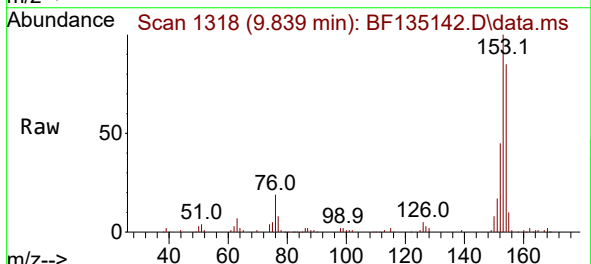
Tgt Ion:152 Resp: 101420
Ion Ratio Lower Upper
152 100
151 19.7 16.2 24.4
153 15.6 11.4 17.0

Manual Integrations
APPROVED

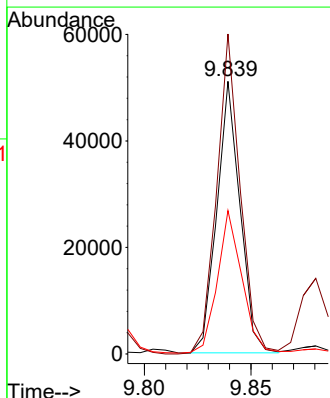
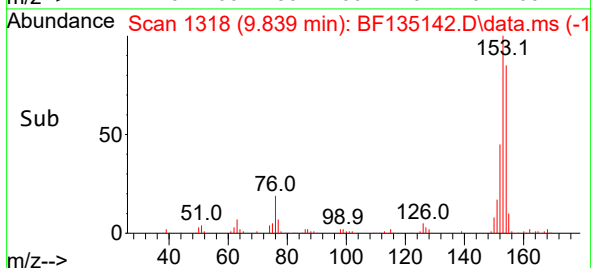
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023

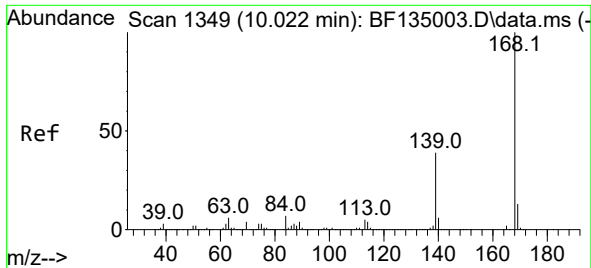


#52
Acenaphthene
Concen: 3.820 ng
RT: 9.839 min Scan# 1318
Delta R.T. -0.012 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39



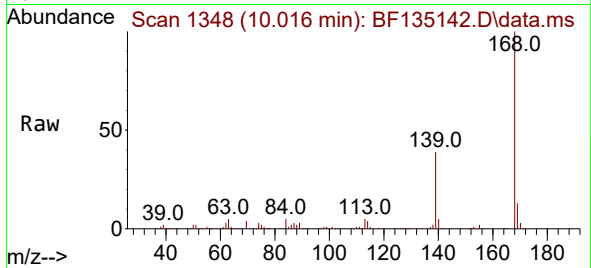
Tgt Ion:154 Resp: 38438
Ion Ratio Lower Upper
154 100
153 117.4 90.8 136.2
152 52.6 40.2 60.4





#55
Dibenzenofuran
Concen: 14.797 ng
RT: 10.016 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

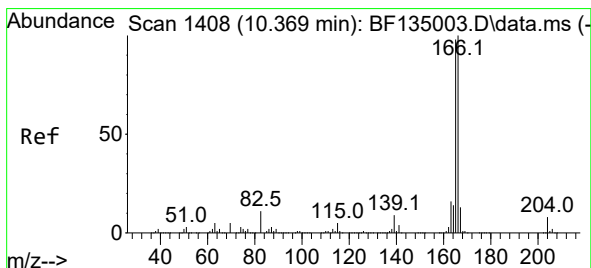
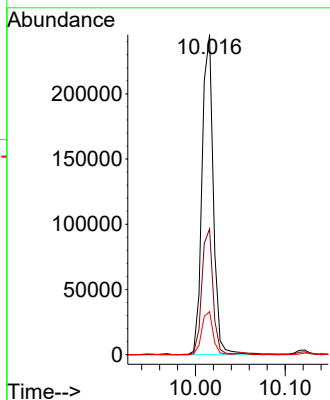
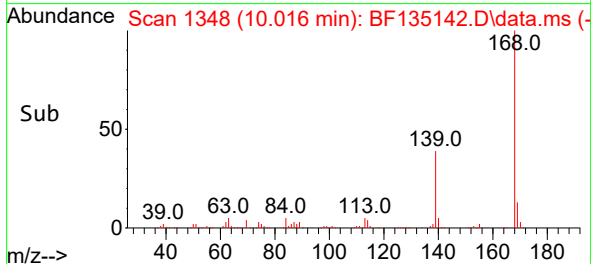
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL2



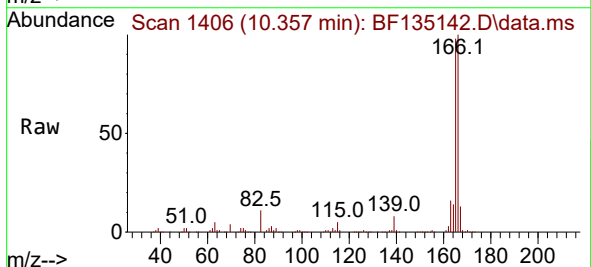
Tgt Ion:168 Resp: 21475
Ion Ratio Lower Upper
168 100
139 39.3 31.5 47.3
169 13.5 10.7 16.1

Manual Integrations
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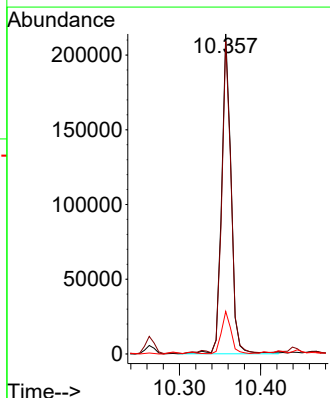
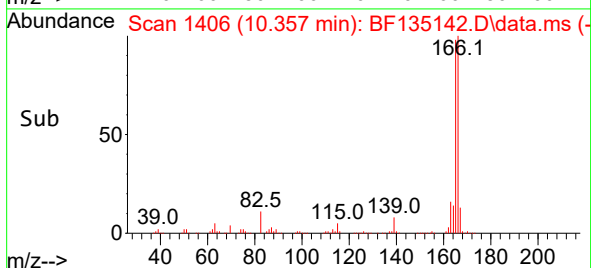
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023

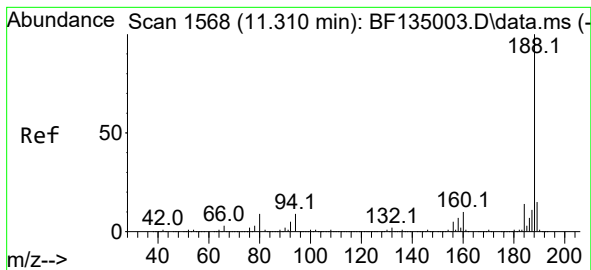


#58
Fluorene
Concen: 15.652 ng
RT: 10.357 min Scan# 1406
Delta R.T. -0.012 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39



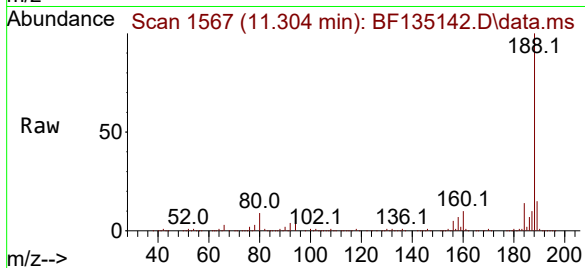
Tgt Ion:166 Resp: 173180
Ion Ratio Lower Upper
166 100
165 97.6 78.0 117.0
167 13.3 10.8 16.2





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.304 min Scan# 1568
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

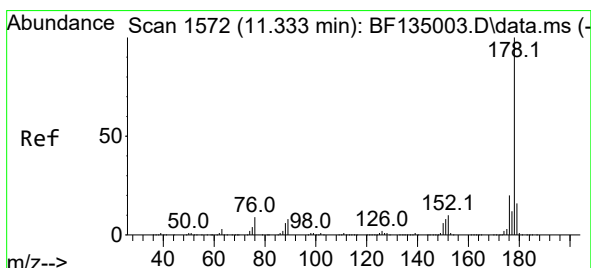
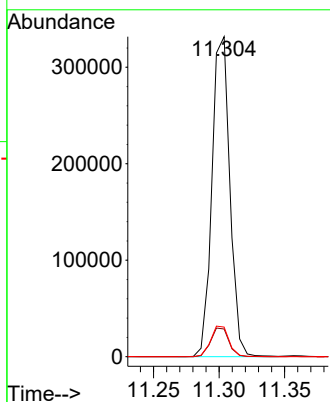
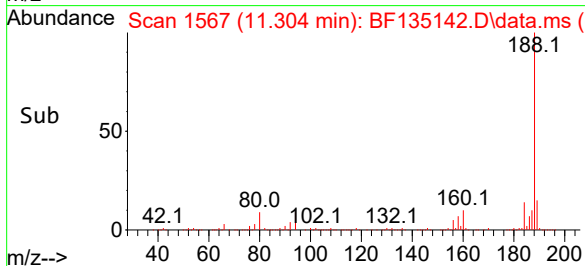
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL2



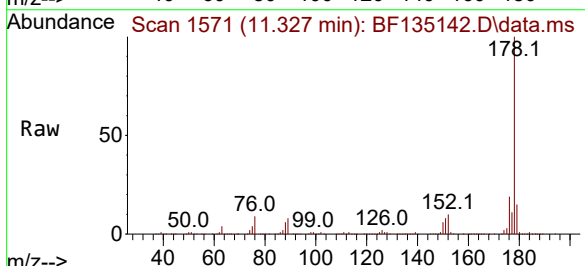
Tgt Ion:188 Resp: 31566
Ion Ratio Lower Upper
188 100
94 8.7 7.0 10.4
80 9.3 7.4 11.2

Manual Integrations
APPROVED

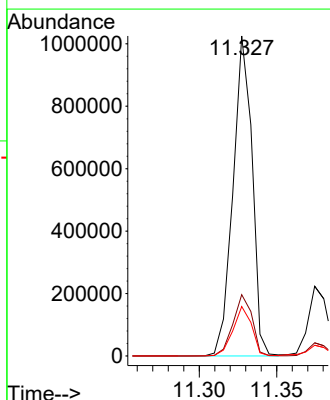
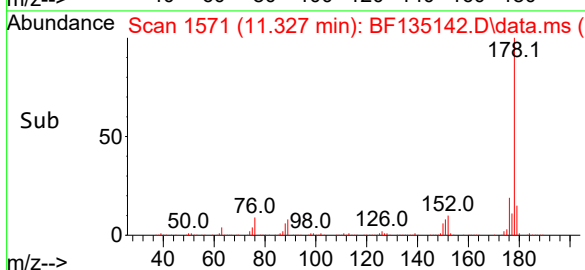
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023

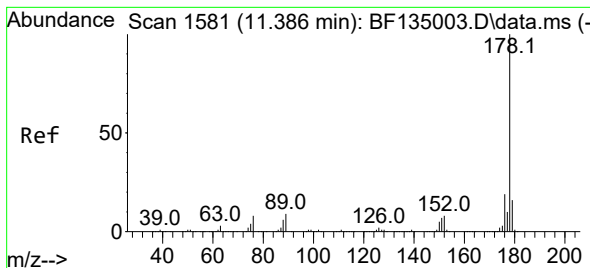


#71
Phenanthrene
Concen: 53.910 ng
RT: 11.327 min Scan# 1571
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39



Tgt Ion:178 Resp: 877940
Ion Ratio Lower Upper
178 100
176 19.2 15.9 23.9
179 15.4 12.5 18.7





#72

Anthracene

Concen: 11.269 ng

RT: 11.374 min Scan# 11

Delta R.T. -0.012 min

Lab File: BF135142.D

Acq: 07 Sep 2023 19:39

Instrument :

BNA_F

ClientSampleId :

SB-07(14-15)DL2

Tgt Ion:178 Resp: 187509

Ion Ratio Lower Upper

178 100

176 18.9 15.4 23.2

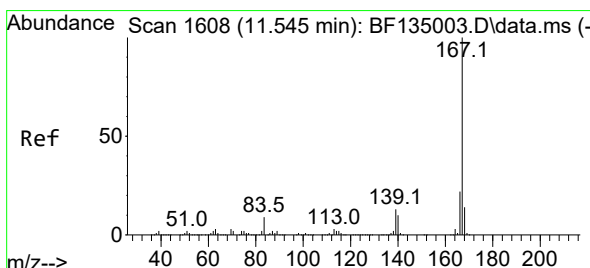
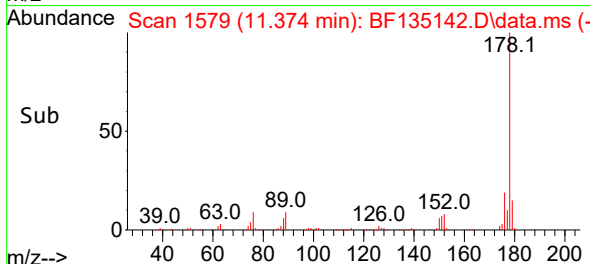
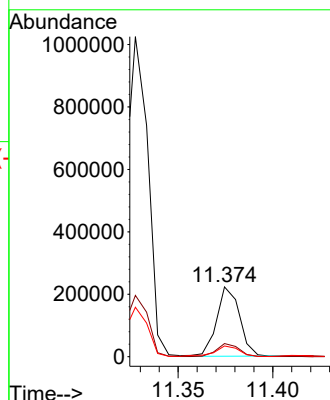
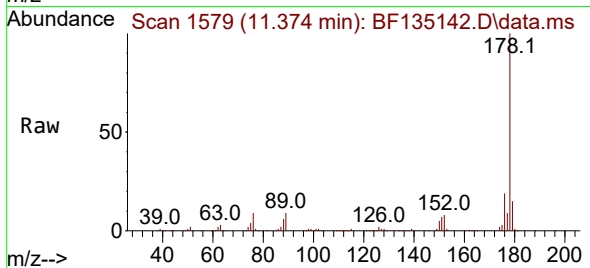
179 15.4 12.8 19.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/08/2023

Supervised By :mohammad ahmed 09/09/2023



#73

Carbazole

Concen: 5.256 ng

RT: 11.533 min Scan# 1606

Delta R.T. -0.012 min

Lab File: BF135142.D

Acq: 07 Sep 2023 19:39

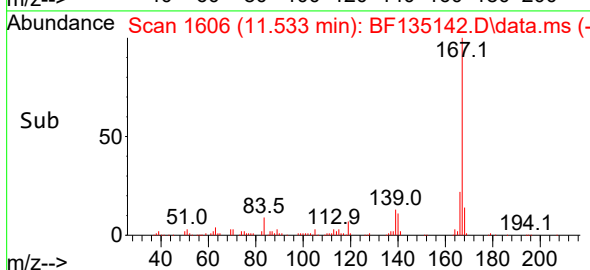
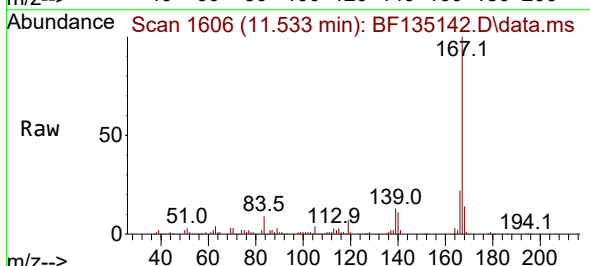
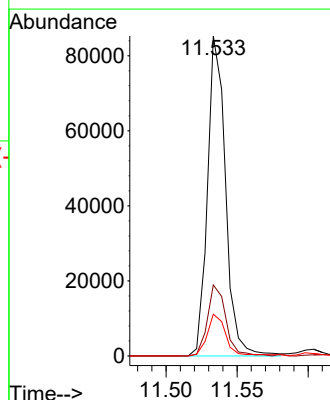
Tgt Ion:167 Resp: 75430

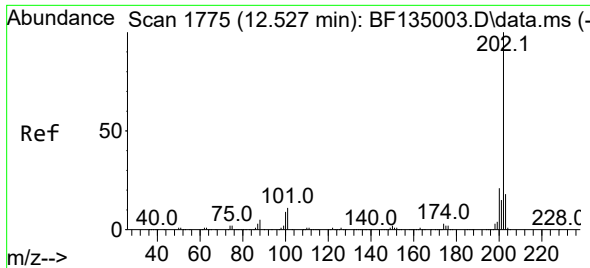
Ion Ratio Lower Upper

167 100

166 22.2 17.4 26.2

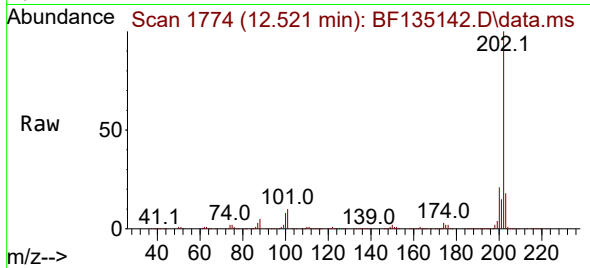
139 13.1 10.3 15.5





#75
Fluoranthene
Concen: 30.834 ng
RT: 12.521 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

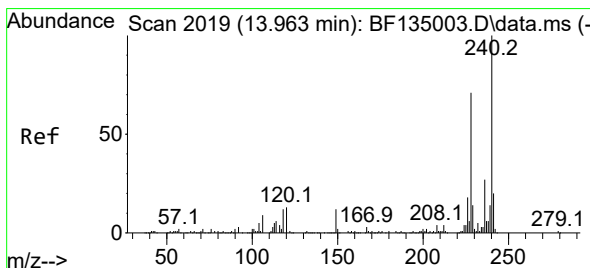
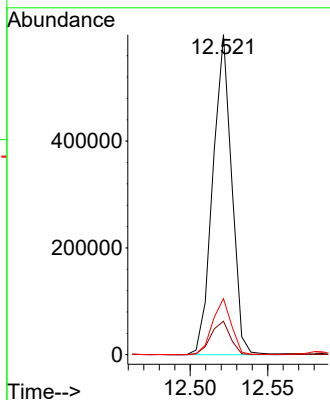
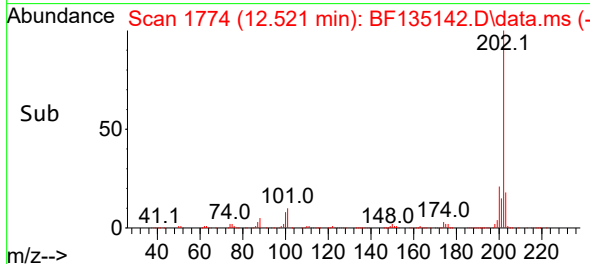
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL2



Tgt Ion:202 Resp: 507680
Ion Ratio Lower Upper
202 100
101 10.4 0.0 31.5
203 17.5 0.0 37.8

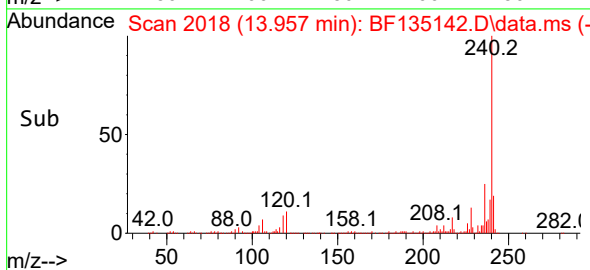
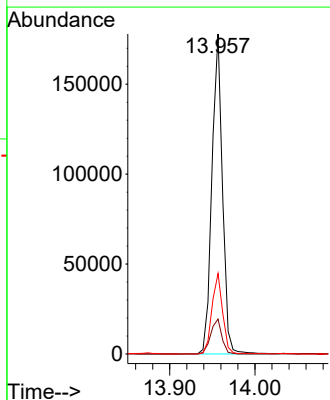
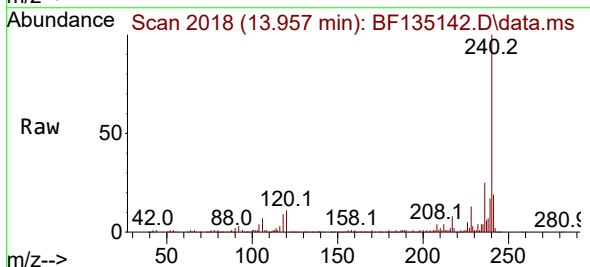
Manual Integrations
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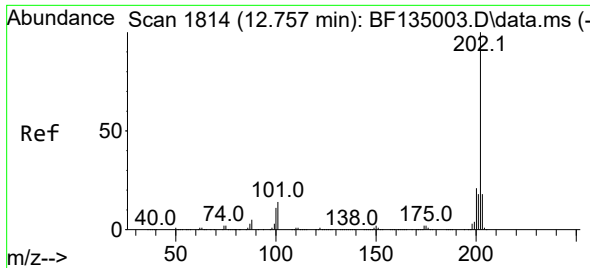
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.957 min Scan# 2018
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

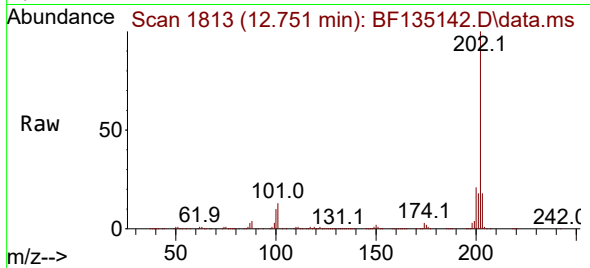
Tgt Ion:240 Resp: 153381
Ion Ratio Lower Upper
240 100
120 10.9 10.2 15.2
236 25.1 21.3 31.9





#78
Pyrene
Concen: 27.298 ng
RT: 12.751 min Scan# 1813
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

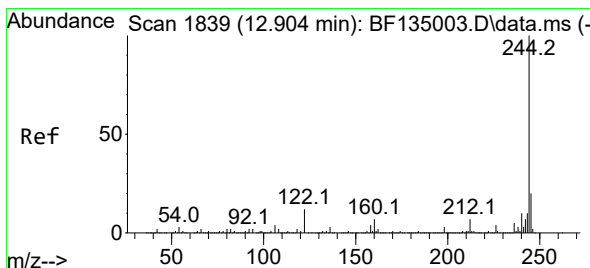
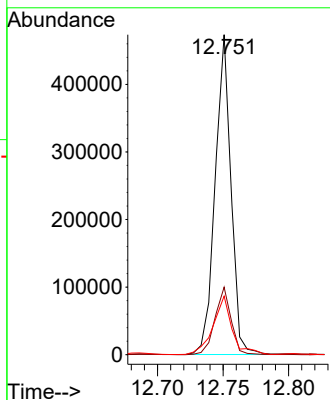
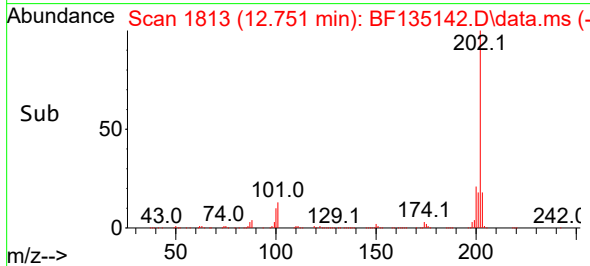
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL2



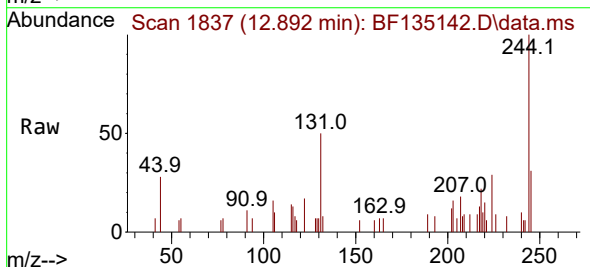
Tgt Ion:202 Resp: 397539
Ion Ratio Lower Upper
202 100
200 21.1 17.0 25.6
203 18.3 14.2 21.2

Manual Integrations
APPROVED

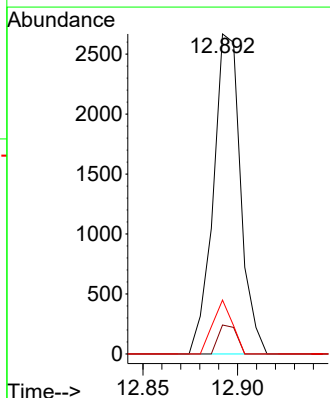
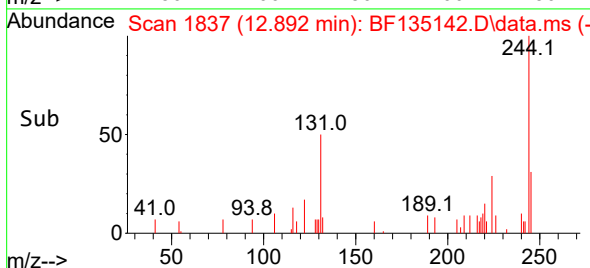
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023

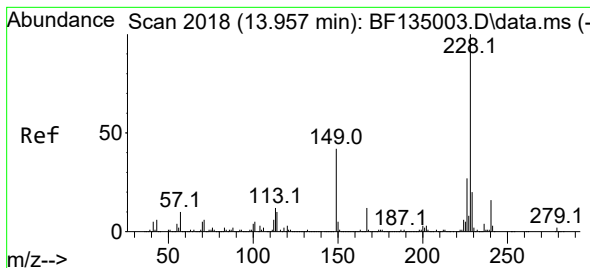


#79
Terphenyl-d14
Concen: 0.284 ng
RT: 12.892 min Scan# 1837
Delta R.T. -0.012 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39



Tgt Ion:244 Resp: 2672
Ion Ratio Lower Upper
244 100
212 9.1 5.6 8.4#
122 16.9 9.8 14.6#





#81

Benzo(a)anthracene

Concen: 12.446 ng

RT: 13.945 min Scan# 20

Delta R.T. -0.012 min

Lab File: BF135142.D

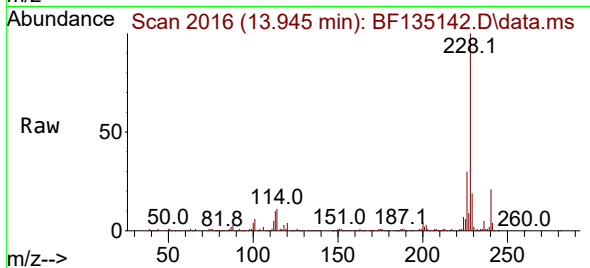
Acq: 07 Sep 2023 19:39

Instrument :

BNA_F

ClientSampleId :

SB-07(14-15)DL2



Tgt Ion:228 Resp: 130222

Ion Ratio Lower Upper

228 100

226 29.5 21.6 32.4

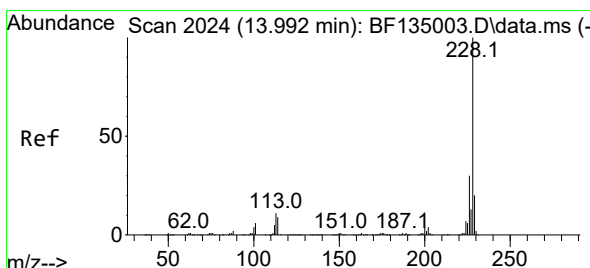
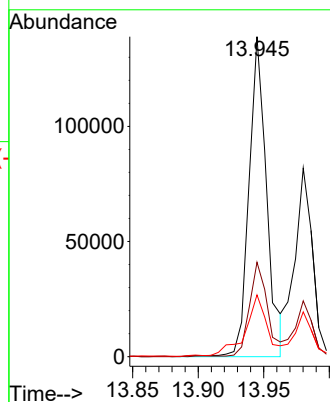
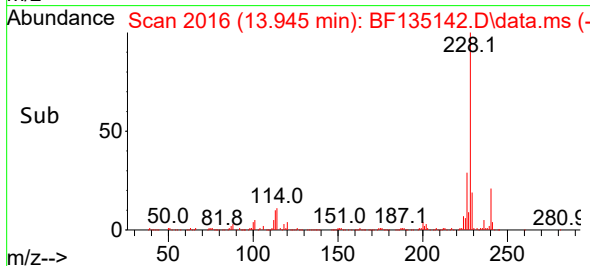
229 19.3 15.6 23.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 09/08/2023

Supervised By :mohammad ahmed 09/09/2023



#83

Chrysene

Concen: 7.630 ng

RT: 13.980 min Scan# 2022

Delta R.T. -0.012 min

Lab File: BF135142.D

Acq: 07 Sep 2023 19:39

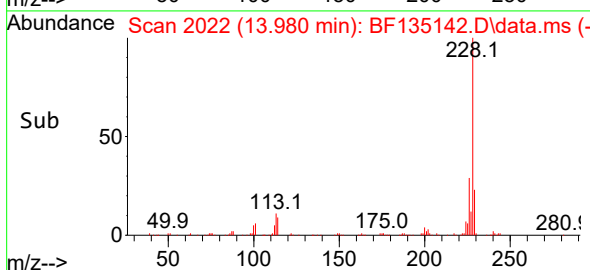
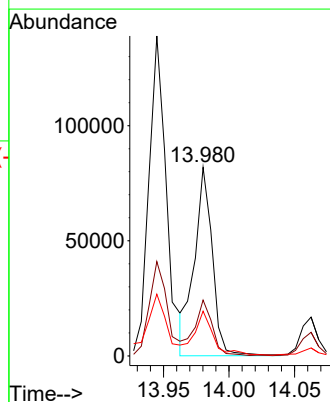
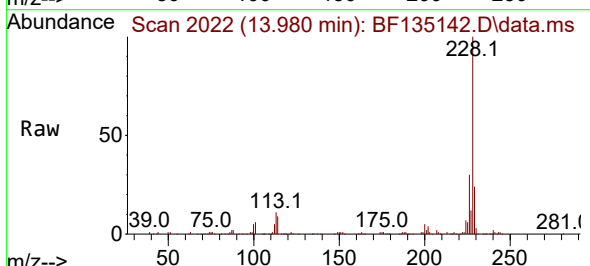
Tgt Ion:228 Resp: 78450

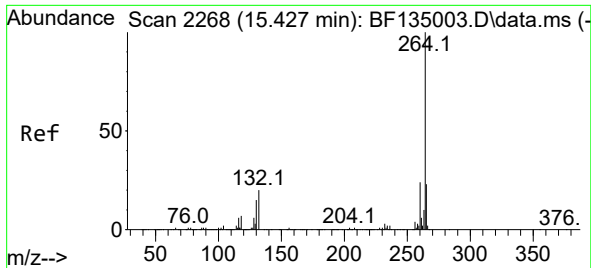
Ion Ratio Lower Upper

228 100

226 29.6 24.2 36.4

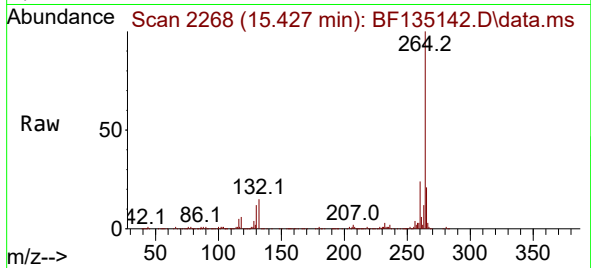
229 23.8 15.9 23.9





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.427 min Scan# 2119
Delta R.T. -0.000 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

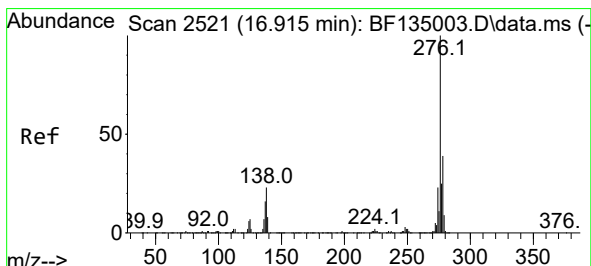
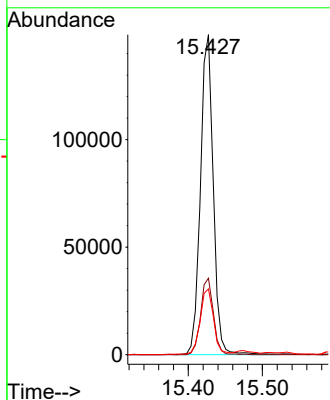
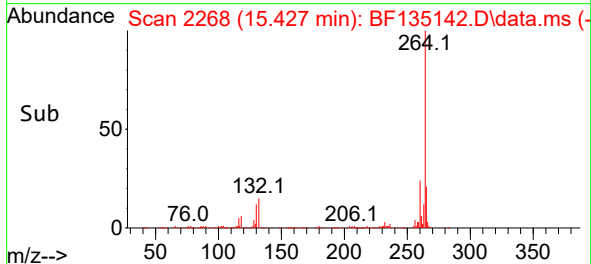
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL2



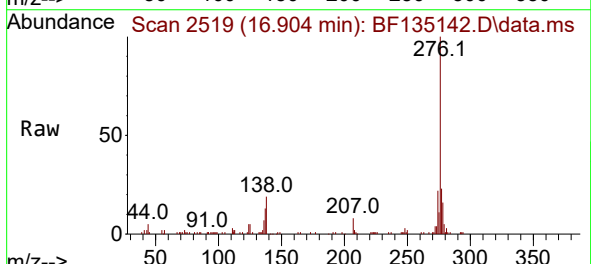
Tgt Ion:264 Resp: 179777
Ion Ratio Lower Upper
264 100
260 23.9 19.0 28.6
265 20.5 18.2 27.2

Manual Integrations
APPROVED

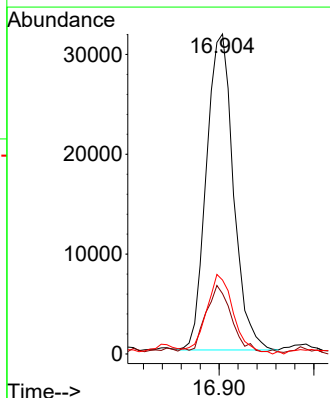
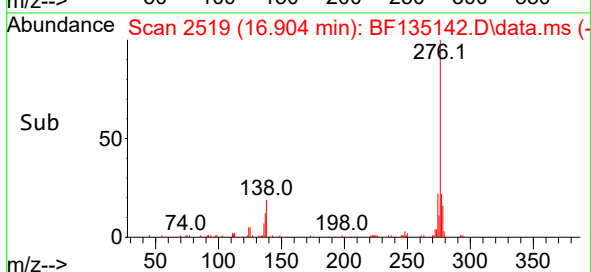
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023

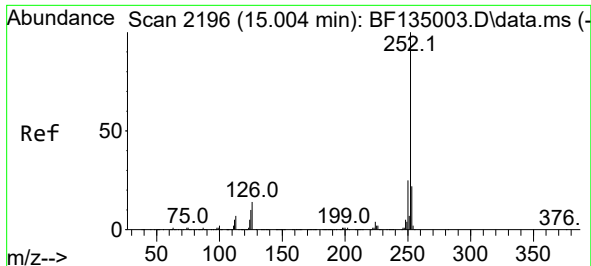


#87
Indeno(1,2,3-cd)pyrene
Concen: 5.186 ng
RT: 16.904 min Scan# 2519
Delta R.T. -0.012 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39



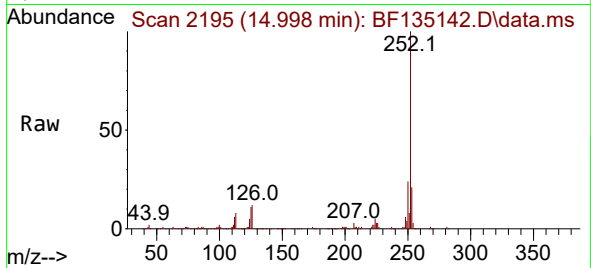
Tgt Ion:276 Resp: 62798
Ion Ratio Lower Upper
276 100
138 21.5 20.2 30.2
277 25.2 20.4 30.6





#88
Benzo(b)fluoranthene
Concen: 11.843 ng m
RT: 14.998 min Scan# 2195
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

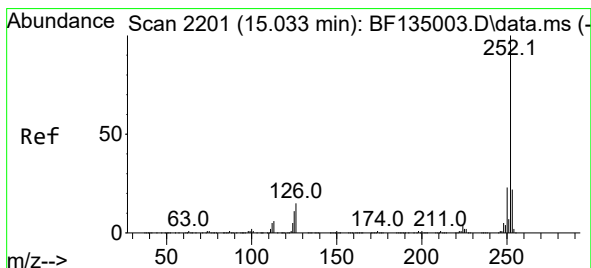
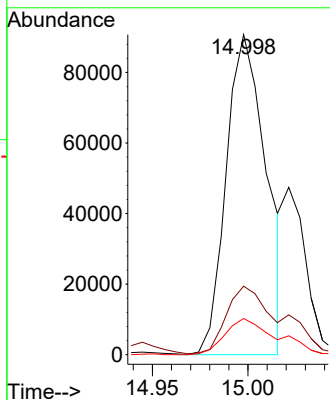
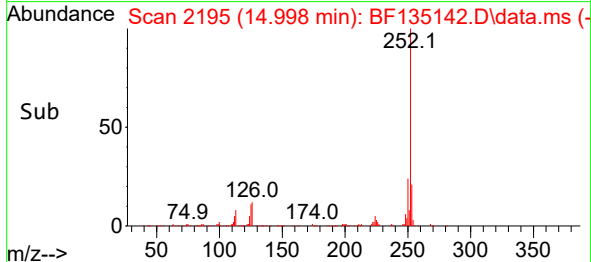
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL2



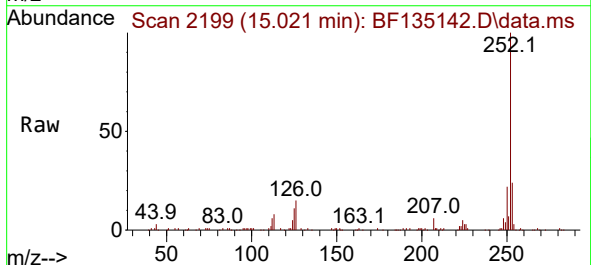
Tgt Ion:252 Resp: 13247
Ion Ratio Lower Upper
252 100
253 21.4 17.8 26.8
125 11.3 8.4 12.6

Manual Integrations
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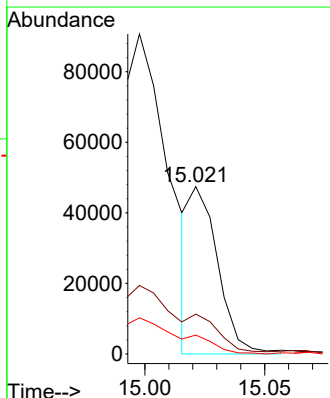
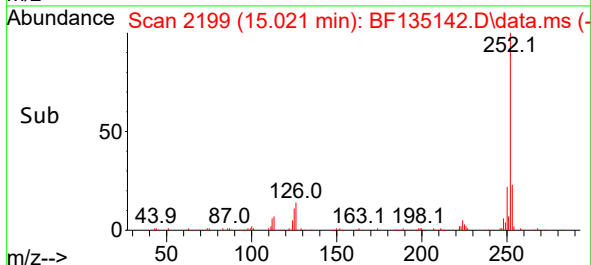
Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023

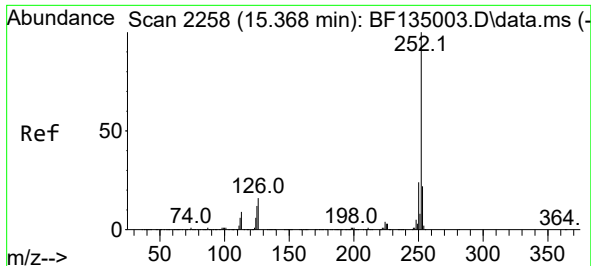


#89
Benzo(k)fluoranthene
Concen: 3.589 ng m
RT: 15.021 min Scan# 2199
Delta R.T. -0.012 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39



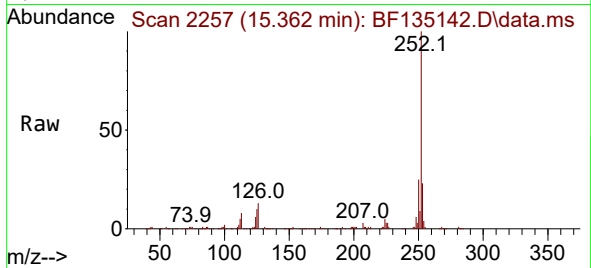
Tgt Ion:252 Resp: 38782
Ion Ratio Lower Upper
252 100
253 23.8 17.4 26.0
125 11.3 8.5 12.7





#90
Benzo(a)pyrene
Concen: 10.553 ng
RT: 15.362 min Scan# 21
Delta R.T. -0.006 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

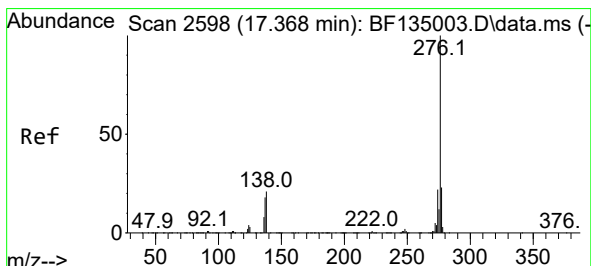
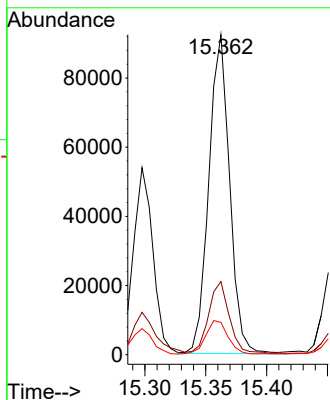
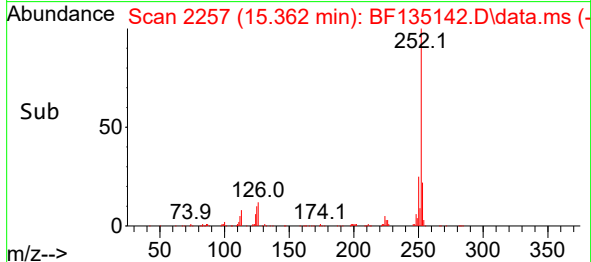
Instrument :
BNA_F
ClientSampleId :
SB-07(14-15)DL2



Tgt Ion:252 Resp: 109662
Ion Ratio Lower Upper
252 100
253 22.8 17.4 26.0
125 10.1 9.5 14.3

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 09/08/2023
Supervised By :mohammad ahmed 09/09/2023



#92
Benzo(g,h,i)perylene
Concen: 5.336 ng
RT: 17.345 min Scan# 2594
Delta R.T. -0.024 min
Lab File: BF135142.D
Acq: 07 Sep 2023 19:39

Tgt Ion:276 Resp: 54434
Ion Ratio Lower Upper
276 100
277 23.5 18.5 27.7
138 20.7 17.1 25.7

