

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080223\
 Data File : BF134598.D
 Acq On : 03 Aug 2023 00:54
 Operator : CG\JU
 Sample : 03598-12
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 RB-57-(5-7)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/03/2023
 Supervised By :mohammad ahmed 08/03/2023

Quant Time: Aug 03 01:52:54 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Aug 02 02:20:34 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.792	152	171659	20.000	ng	0.00
21) Naphthalene-d8	8.075	136	635316	20.000	ng	# 0.00
39) Acenaphthene-d10	9.827	164	259754	20.000	ng	0.00
64) Phenanthrene-d10	11.321	188	408310	20.000	ng	# 0.00
76) Chrysene-d12	13.974	240	251860	20.000	ng	# 0.01
86) Perylene-d12	15.433	264	232722	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	795439	70.439	ng	0.00
7) Phenol-d6	6.422	99	1013092	70.181	ng	0.00
23) Nitrobenzene-d5	7.351	82	579913	57.043	ng	0.00
42) 2,4,6-Tribromophenol	10.616	330	139421	52.653	ng	0.00
45) 2-Fluorobiphenyl	9.151	172	965945	61.830	ng	0.00
79) Terphenyl-d14	12.915	244	917986	64.253	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.092	128	108492	3.398	ng	98
37) 2-Methylnaphthalene	8.786	142	483797	22.859	ng	99
38) 1-Methylnaphthalene	8.886	142	643159	32.680	ng	97
46) 1,1'-Biphenyl	9.251	154	97839	4.844	ng	97
49) Acenaphthylene	9.686	152	111177	4.673	ng	# 66
52) Acenaphthene	9.863	154	759304	49.249	ng	99
55) Dibenzofuran	10.033	168	305352	13.913	ng	# 90
58) Fluorene	10.380	166	648315	40.554	ng	96
71) Phenanthrene	11.374	178	7005308	323.007	ng	98
72) Anthracene	11.404	178	1714878	77.411	ng	98
73) Carbazole	11.551	167	179705	9.085	ng	99
75) Fluoranthene	12.557	202	4326069	188.836	ng	97
78) Pyrene	12.792	202	5844404	268.168	ng	93
81) Benzo(a)anthracene	13.968	228	2643846	146.805	ng	98
83) Chrysene	14.004	228	2330056	132.799	ng	97
87) Indeno(1,2,3-cd)pyrene	16.915	276	534522	39.053	ng	# 94
88) Benzo(b)fluoranthene	15.015	252	1599607m	112.700	ng	
89) Benzo(k)fluoranthene	15.039	252	373693m	26.430	ng	
90) Benzo(a)pyrene	15.374	252	1123675	84.910	ng	# 95
91) Dibenzo(a,h)anthracene	16.927	278	180376m	16.307	ng	
92) Benzo(g,h,i)perylene	17.362	276	508675	45.083	ng	# 92

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

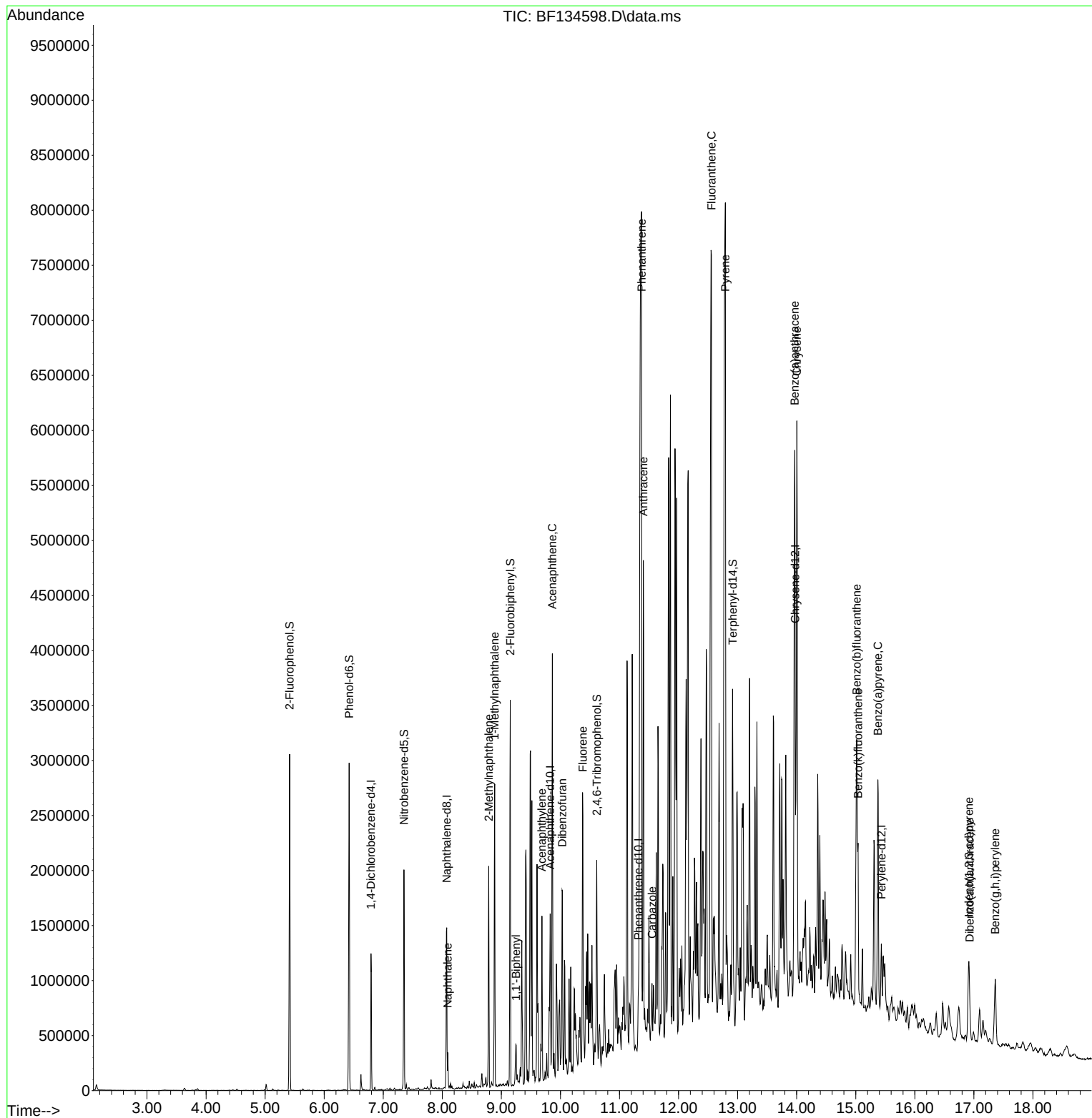
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080223\
Data File : BF134598.D
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Operator : CG\JU
Sample : 03598-12
Misc :
ALS Vial : 29 Sample Multiplier: 1

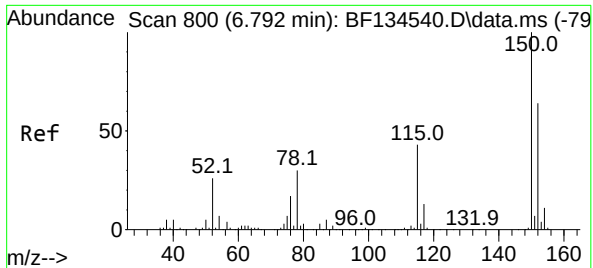
Instrument :
BNA_F
ClientSampleId :
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Quant Time: Aug 03 01:52:54 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Wed Aug 02 02:20:34 2023
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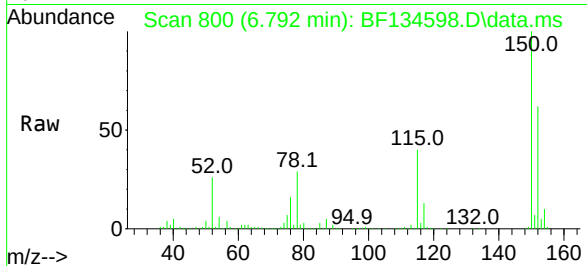
#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.792 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54

Instrument :

BNA_F

ClientSampleId :

RB-57-(5-7)

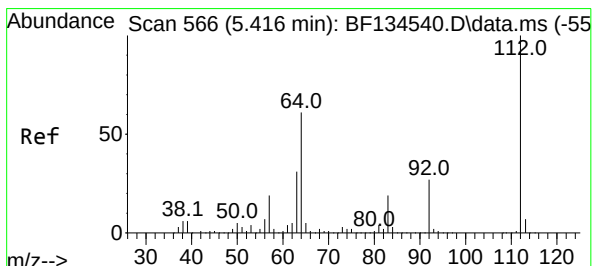
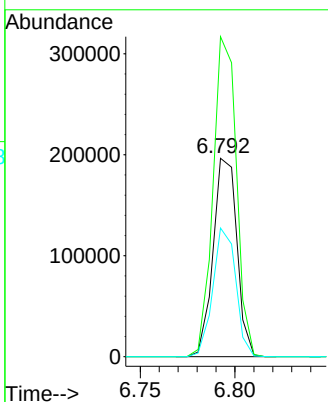
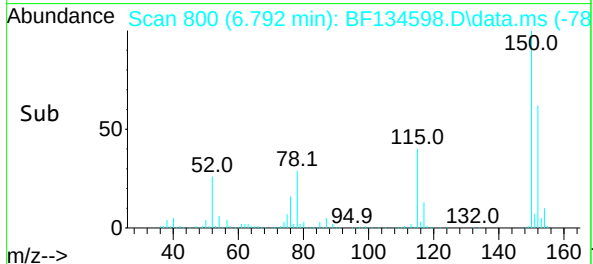


Tgt Ion:152 Resp: 171659
Ion Ratio Lower Upper
152 100
150 161.3 128.3 192.5
115 64.9 52.4 78.6

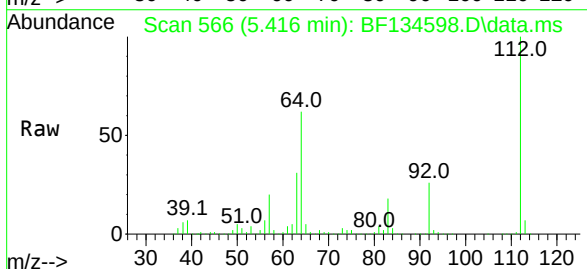
Manual Integrations

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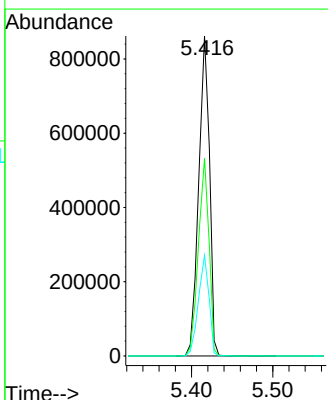
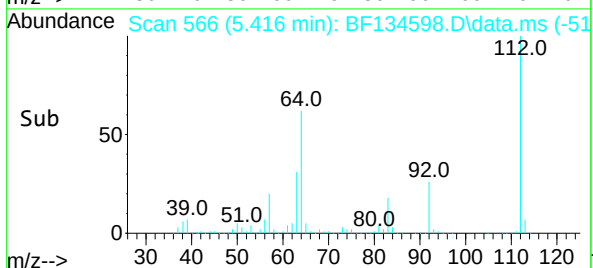
Reviewed By :Yogesh Patel 08/03/2023
Supervised By :mohammad ahmed 08/03/2023

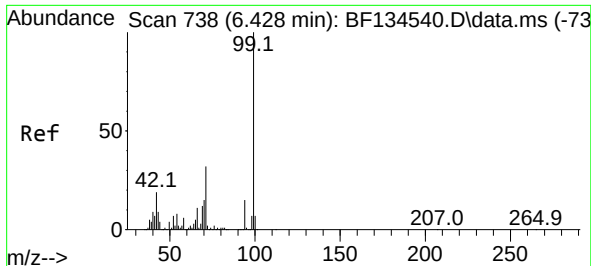


#5
2-Fluorophenol
Concen: 70.439 ng
RT: 5.416 min Scan# 566
Delta R.T. 0.000 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54



Tgt Ion:112 Resp: 795439
Ion Ratio Lower Upper
112 100
64 61.7 44.9 67.3
63 31.4 25.4 38.0





#7

Phenol-d6

Concen: 70.181 ng

RT: 6.422 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF134598.D

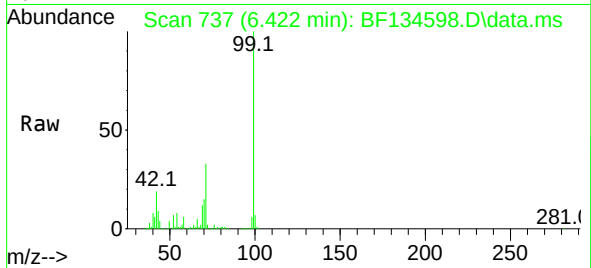
Acq: 03 Aug 2023 00:54

Instrument :

BNA_F

ClientSampleId :

RB-57-(5-7)



Tgt Ion: 99 Resp: 1013092

Ion Ratio Lower Upper

99 100

42 18.9 18.7 28.1

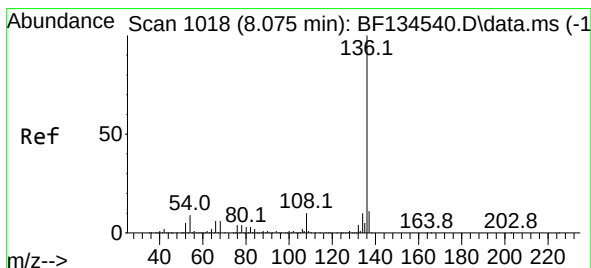
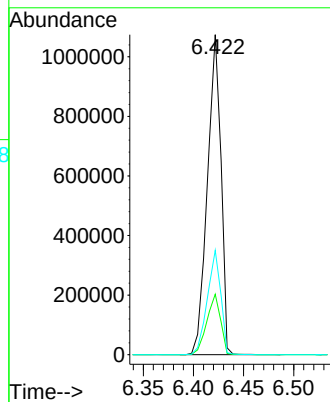
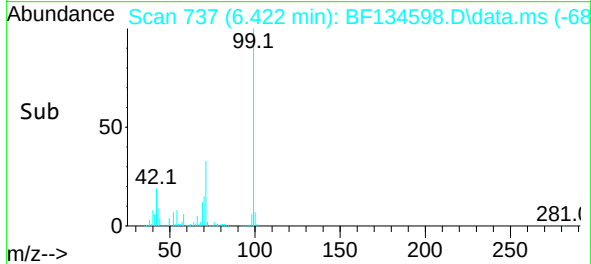
71 32.6 36.4 54.6

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#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.075 min Scan# 1018

Delta R.T. 0.000 min

Lab File: BF134598.D

Acq: 03 Aug 2023 00:54

Tgt Ion:136 Resp: 635316

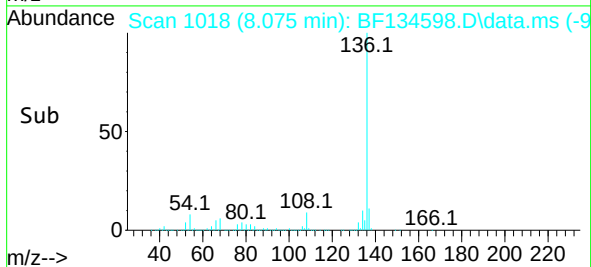
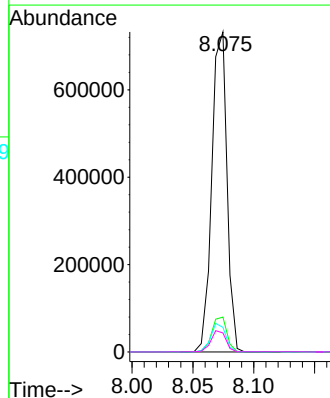
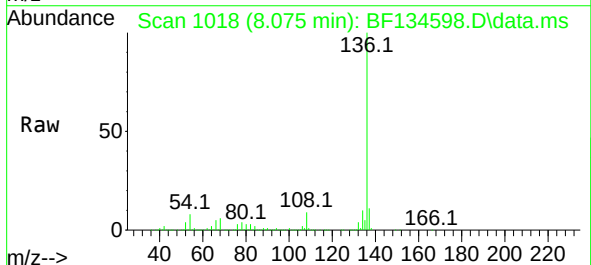
Ion Ratio Lower Upper

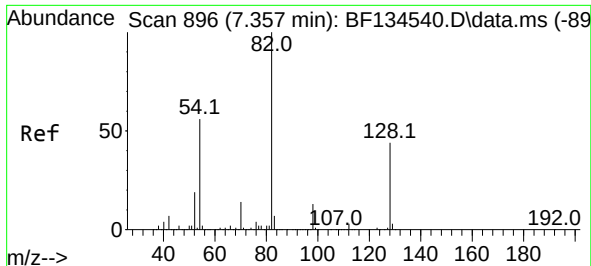
136 100

137 10.9 8.4 12.6

54 7.7 5.2 7.8

68 5.9 2.9 4.3#





#23

Nitrobenzene-d5

Concen: 57.043 ng

RT: 7.351 min Scan# 89

Delta R.T. -0.006 min

Lab File: BF134598.D

Acq: 03 Aug 2023 00:54

Instrument :

BNA_F

ClientSampleId :

RB-57-(5-7)

Tgt Ion: 82 Resp: 57991

Ion Ratio Lower Upper

82 100

128 43.4 34.3 51.5

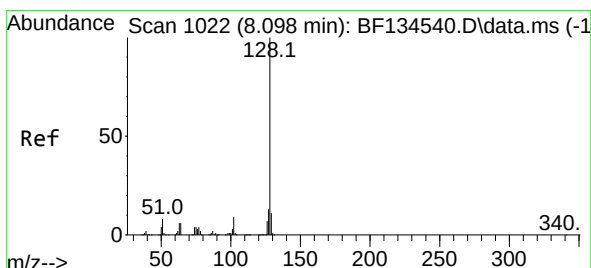
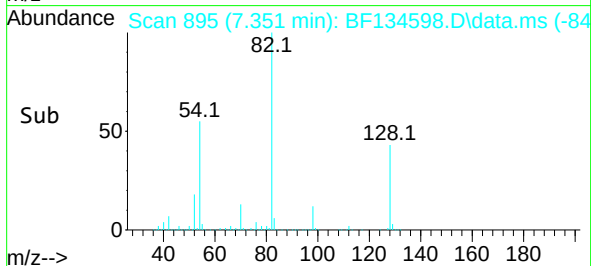
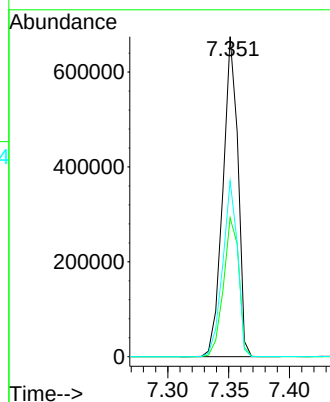
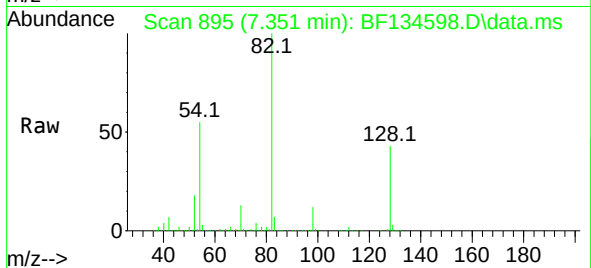
54 55.0 43.8 65.6

Manual Integrations

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Supervised By :mohammad ahmed 08/03/2023



#31

Naphthalene

Concen: 3.398 ng

RT: 8.092 min Scan# 1021

Delta R.T. -0.006 min

Lab File: BF134598.D

Acq: 03 Aug 2023 00:54

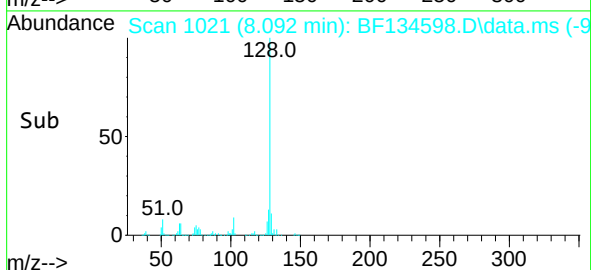
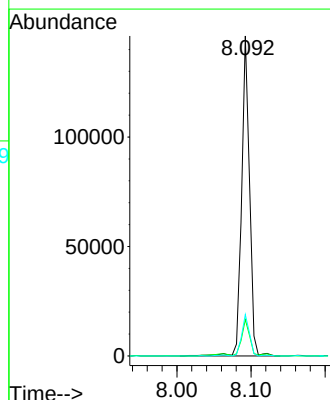
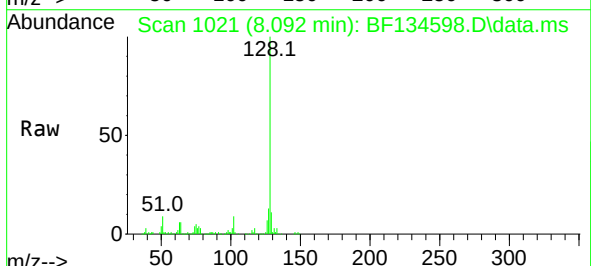
Tgt Ion:128 Resp: 108492

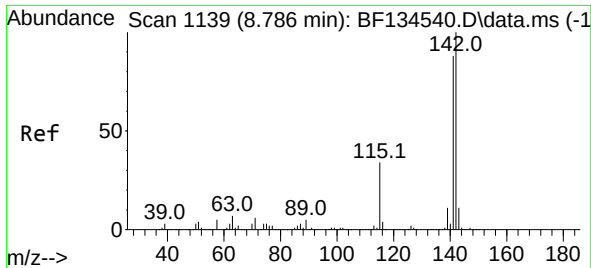
Ion Ratio Lower Upper

128 100

129 11.3 8.4 12.6

127 13.0 10.7 16.1





#37

2-Methylnaphthalene

Concen: 22.859 ng

RT: 8.786 min Scan# 1139

Delta R.T. 0.000 min

Lab File: BF134598.D

Acq: 03 Aug 2023 00:54

Instrument :

BNA_F

ClientSampleId :

RB-57-(5-7)

Tgt Ion:142 Resp: 48379

Ion Ratio Lower Upper

142 100

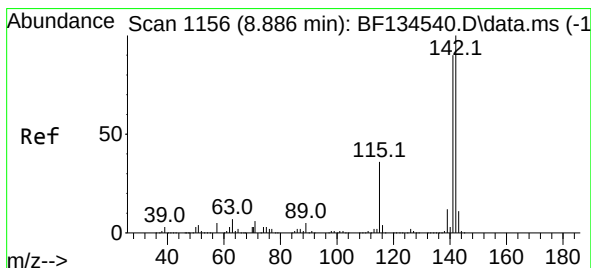
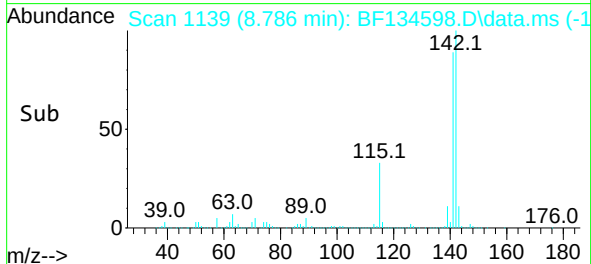
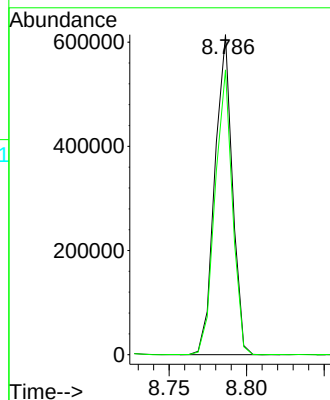
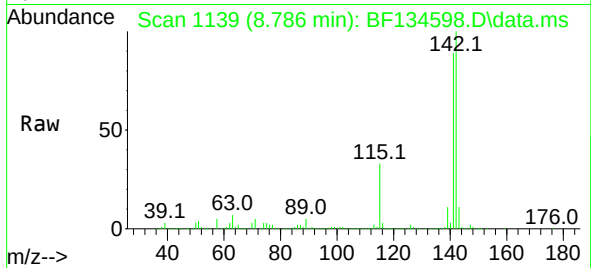
141 89.0 70.8 106.2

Manual Integrations

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Supervised By :mohammad ahmed 08/03/2023



#38

1-Methylnaphthalene

Concen: 32.680 ng

RT: 8.886 min Scan# 1156

Delta R.T. 0.000 min

Lab File: BF134598.D

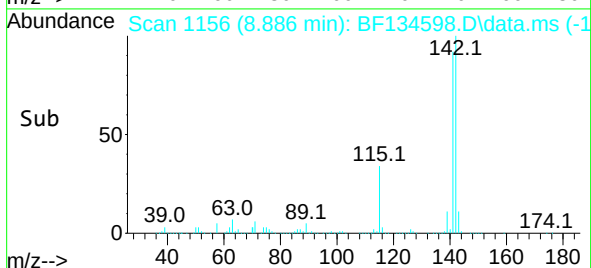
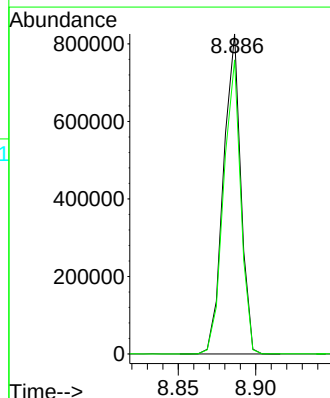
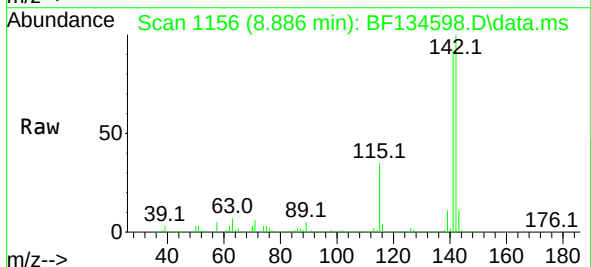
Acq: 03 Aug 2023 00:54

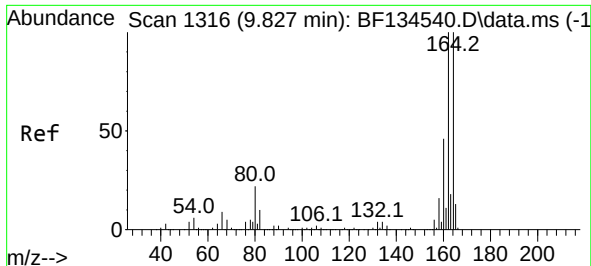
Tgt Ion:142 Resp: 643159

Ion Ratio Lower Upper

142 100

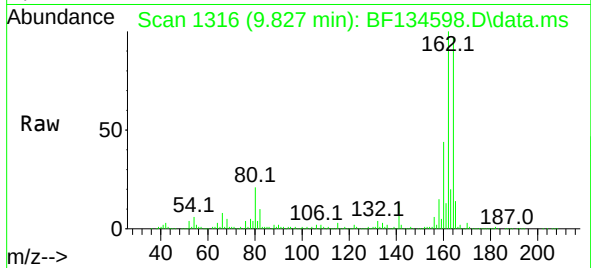
141 91.9 71.4 107.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.827 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54

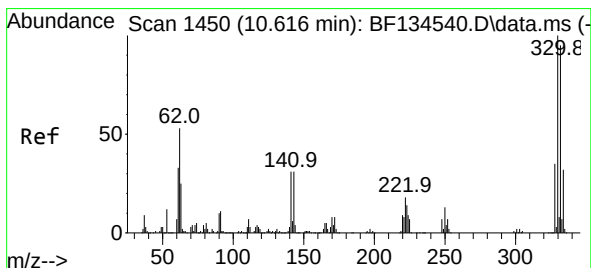
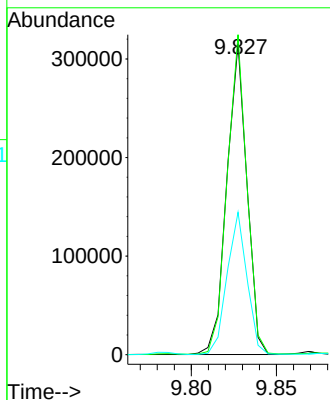
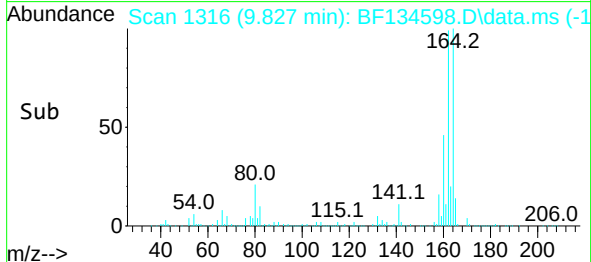
Instrument :
BNA_F
ClientSampleId :
RB-57-(5-7)



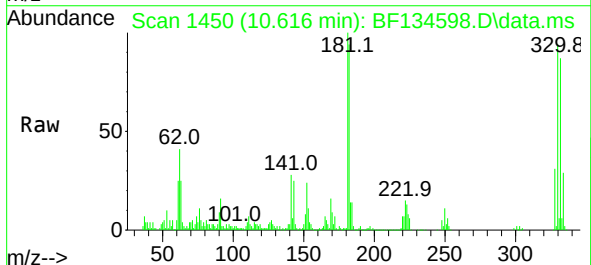
Tgt Ion:164 Resp: 259754
Ion Ratio Lower Upper
164 100
162 102.8 82.6 123.8
160 45.8 37.2 55.8

Manual Integrations
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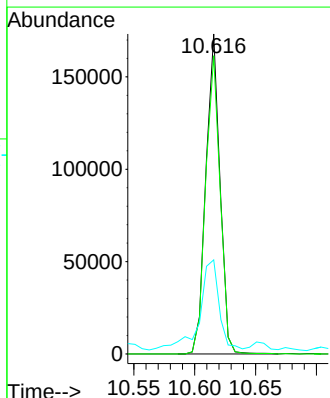
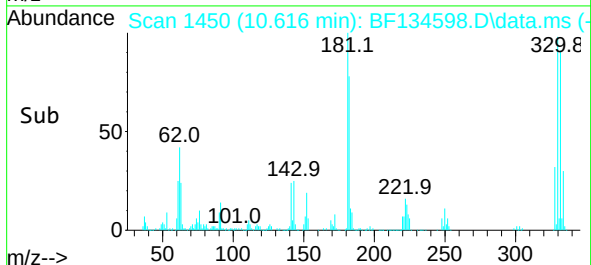
Reviewed By :Yogesh Patel 08/03/2023
Supervised By :mohammad ahmed 08/03/2023

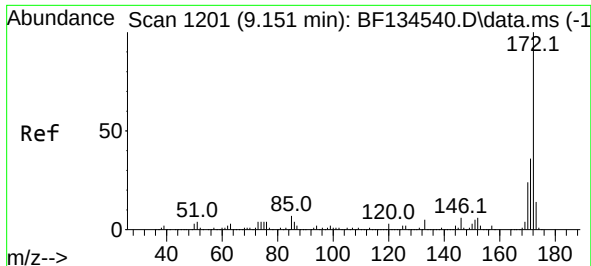


#42
2,4,6-Tribromophenol
Concen: 52.653 ng
RT: 10.616 min Scan# 1450
Delta R.T. 0.000 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54



Tgt Ion:330 Resp: 139421
Ion Ratio Lower Upper
330 100
332 95.7 78.8 118.2
141 39.0 25.4 38.2#





#45

2-Fluorobiphenyl

Concen: 61.830 ng

RT: 9.151 min Scan# 1201

Delta R.T. 0.000 min

Lab File: BF134598.D

Acq: 03 Aug 2023 00:54

Instrument :

BNA_F

ClientSampleId :

RB-57-(5-7)

Tgt Ion:172 Resp: 96594

Ion Ratio Lower Upper

172 100

171 35.2 28.8 43.2

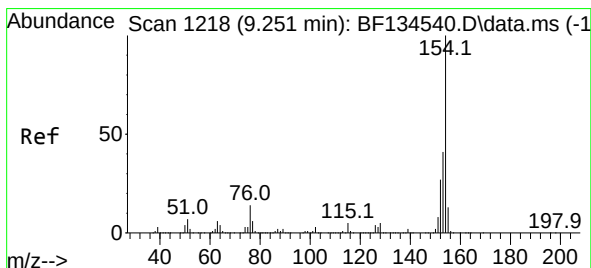
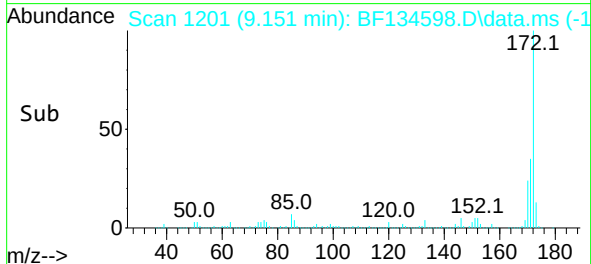
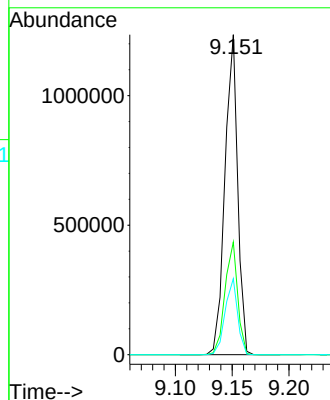
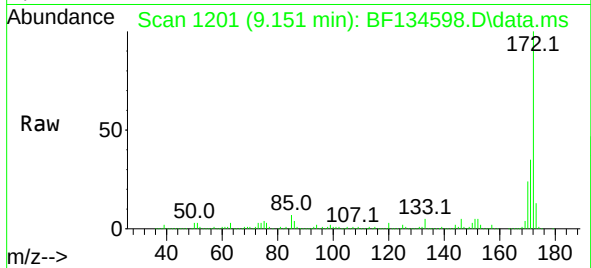
170 23.8 18.7 28.1

Manual Integrations

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Supervised By :mohammad ahmed 08/03/2023



#46

1,1'-Biphenyl

Concen: 4.844 ng

RT: 9.251 min Scan# 1218

Delta R.T. 0.000 min

Lab File: BF134598.D

Acq: 03 Aug 2023 00:54

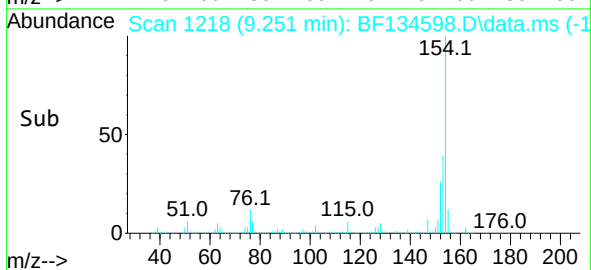
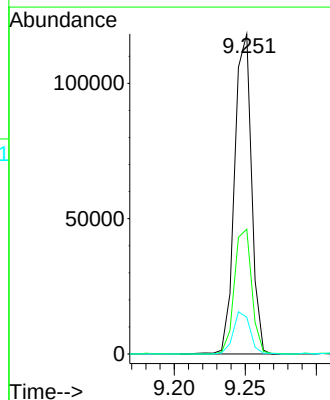
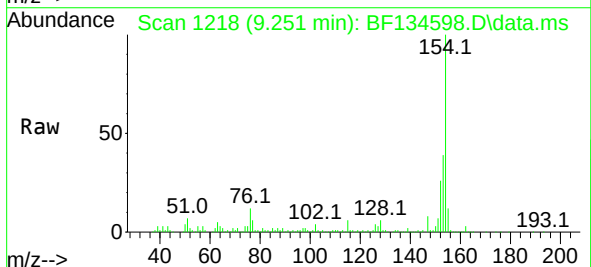
Tgt Ion:154 Resp: 97839

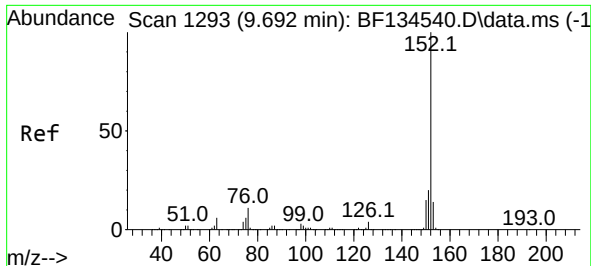
Ion Ratio Lower Upper

154 100

153 39.0 20.8 60.8

76 11.5 0.0 30.2





#49

Acenaphthylene

Concen: 4.673 ng

RT: 9.686 min Scan# 1292

Delta R.T. -0.006 min

Lab File: BF134598.D

Acq: 03 Aug 2023 00:54

Instrument :

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ClientSampleId :

RB-57-(5-7)

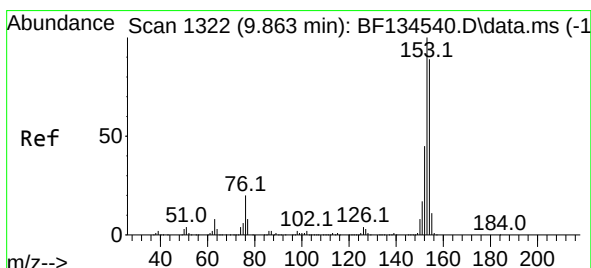
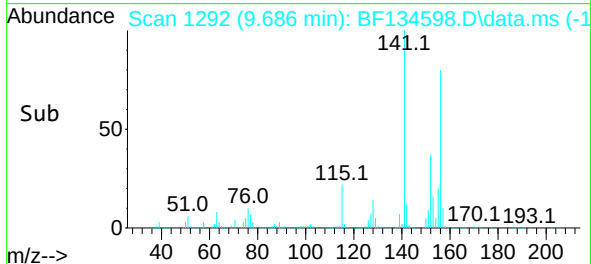
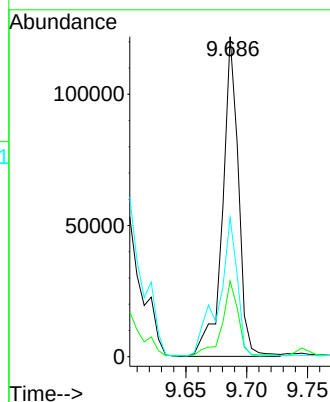
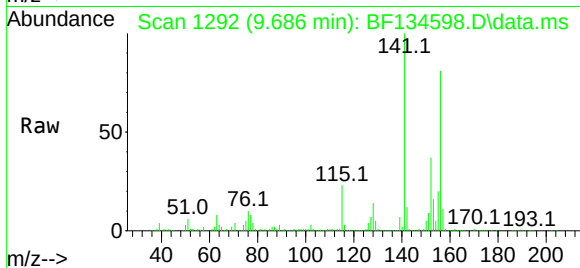
Tgt Ion:	152	Resp:	11117
Ion Ratio	Lower	Upper	
152	100		
151	23.7	16.4	24.6
153	43.5	10.9	16.3

Manual Integrations

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Supervised By :mohammad ahmed 08/03/2023



#52

Acenaphthene

Concen: 49.249 ng

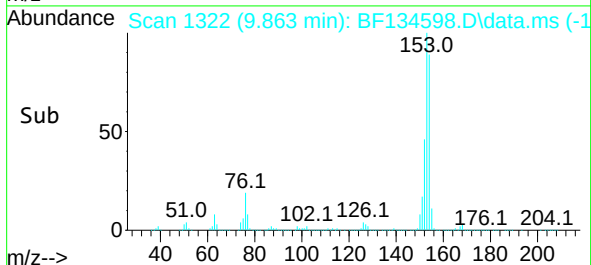
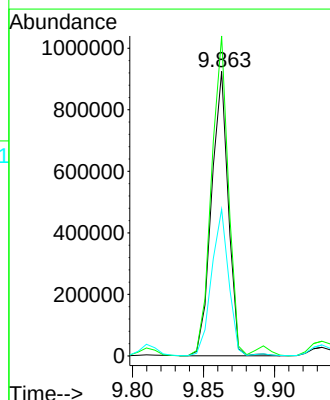
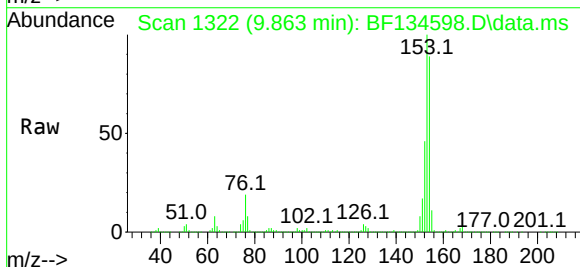
RT: 9.863 min Scan# 1322

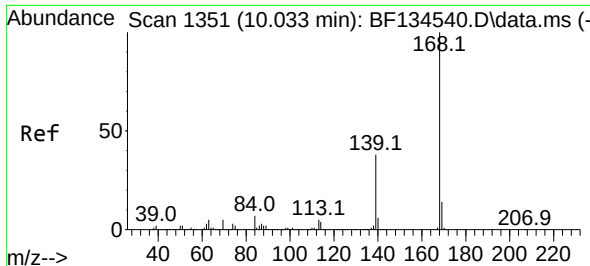
Delta R.T. -0.000 min

Lab File: BF134598.D

Acq: 03 Aug 2023 00:54

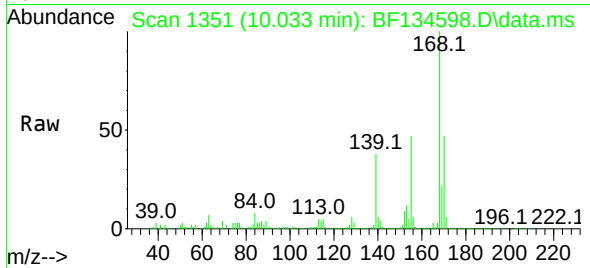
Tgt Ion:	154	Resp:	759304
Ion Ratio	Lower	Upper	
154	100		
153	112.5	90.0	135.0
152	51.6	42.4	63.6





#55
Dibenzenofuran
Concen: 13.913 ng
RT: 10.033 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54

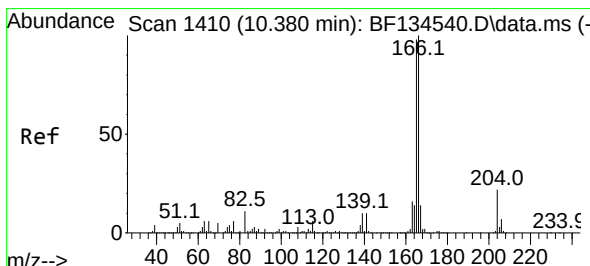
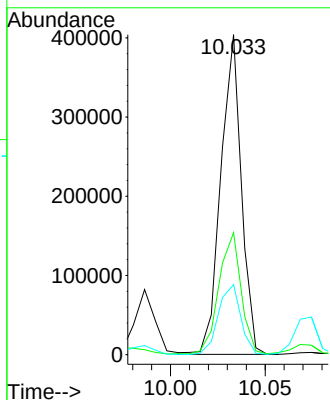
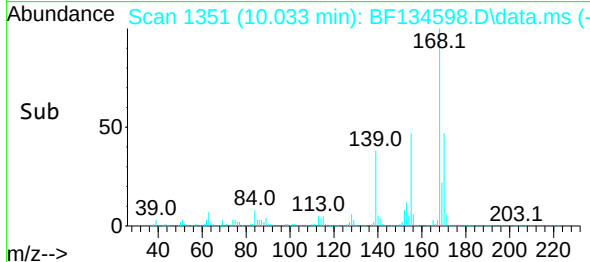
Instrument :
BNA_F
ClientSampleId :
RB-57-(5-7)



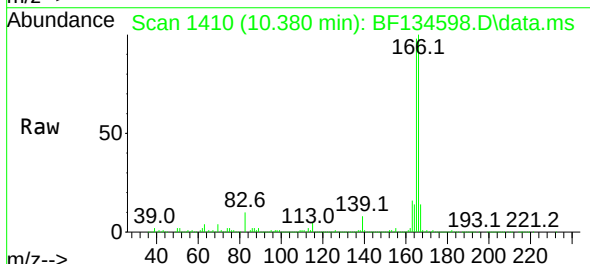
Tgt Ion:168 Resp: 305352
Ion Ratio Lower Upper
168 100
139 38.2 33.4 50.2
169 21.9 10.6 15.8

Manual Integrations
APPROVED

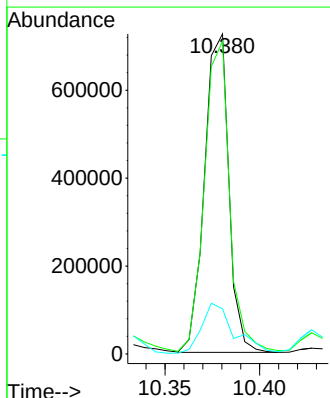
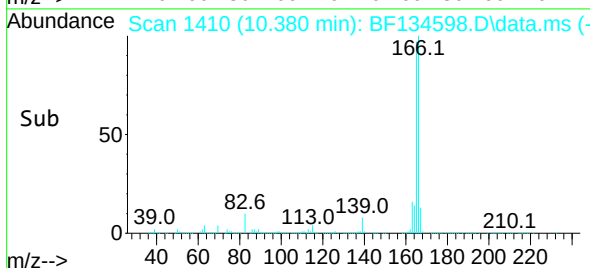
Reviewed By :Yogesh Patel 08/03/2023
Supervised By :mohammad ahmed 08/03/2023

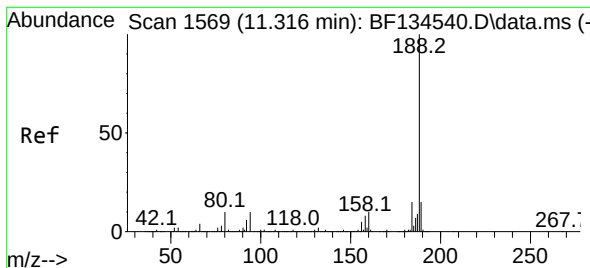


#58
Fluorene
Concen: 40.554 ng
RT: 10.380 min Scan# 1410
Delta R.T. 0.000 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54



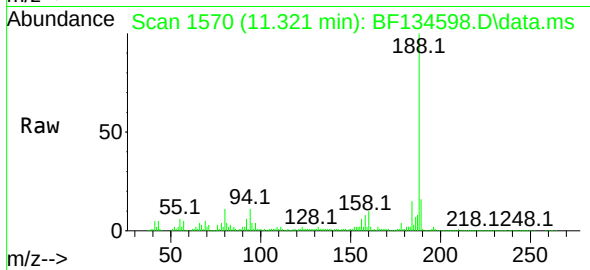
Tgt Ion:166 Resp: 648315
Ion Ratio Lower Upper
166 100
165 97.7 74.5 111.7
167 14.1 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.321 min Scan# 1569
Delta R.T. 0.006 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54

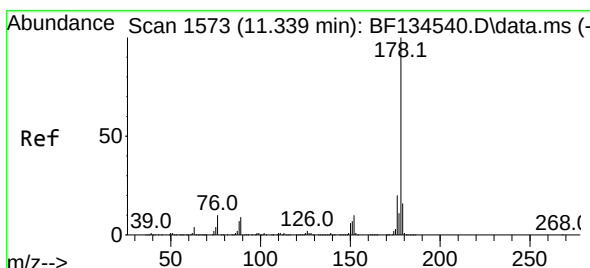
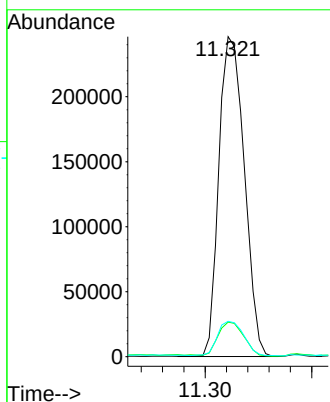
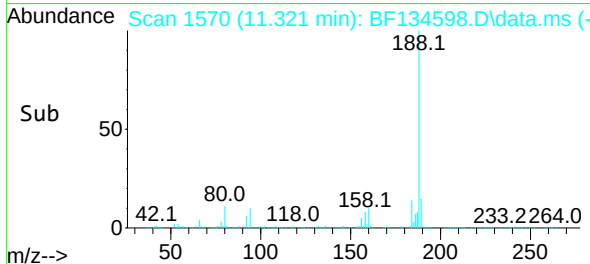
Instrument :
BNA_F
ClientSampleId :
RB-57-(5-7)



Tgt Ion:188 Resp: 408310
Ion Ratio Lower Upper
188 100
94 10.8 5.1 7.7
80 11.0 6.6 9.8

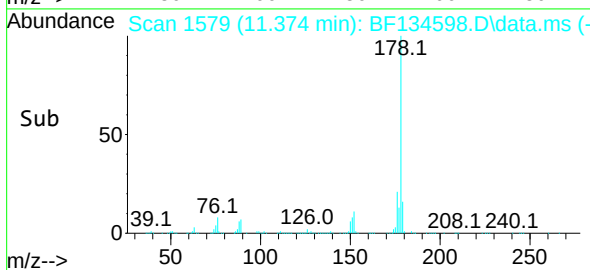
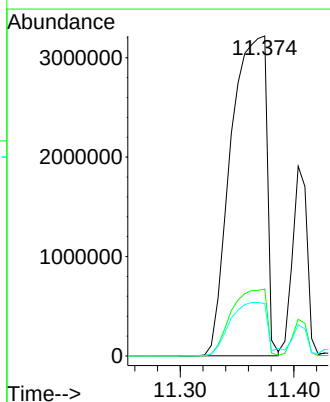
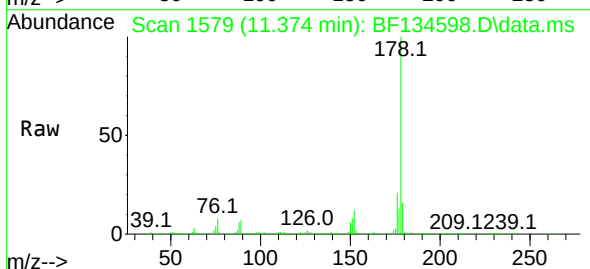
Manual Integrations
APPROVED

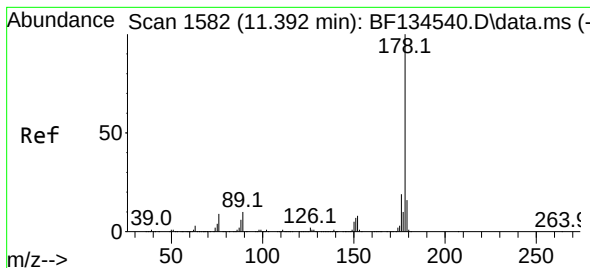
Reviewed By :Yogesh Patel 08/03/2023
Supervised By :mohammad ahmed 08/03/2023



#71
Phenanthrene
Concen: 323.007 ng
RT: 11.374 min Scan# 1579
Delta R.T. 0.035 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54

Tgt Ion:178 Resp: 7005308
Ion Ratio Lower Upper
178 100
176 20.9 15.8 23.6
179 16.4 12.7 19.1





#72

Anthracene

Concen: 77.411 ng

RT: 11.404 min Scan# 11

Delta R.T. 0.012 min

Lab File: BF134598.D

Acq: 03 Aug 2023 00:54

Instrument :

BNA_F

ClientSampleId :

RB-57-(5-7)

Tgt Ion:178 Resp: 1714878

Ion Ratio Lower Upper

178 100

176 19.3 14.6 21.8

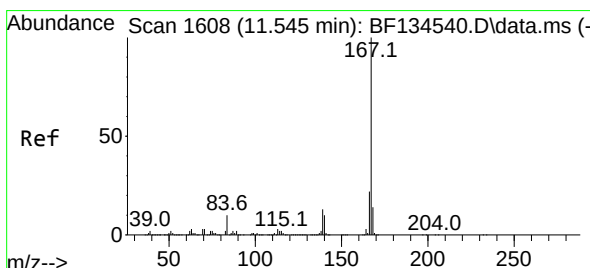
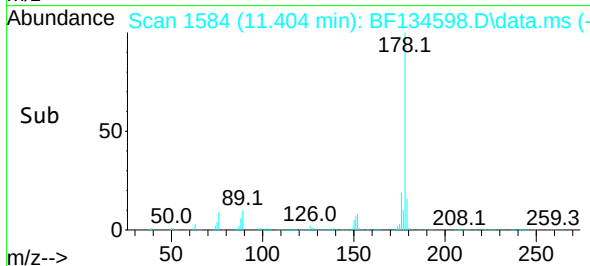
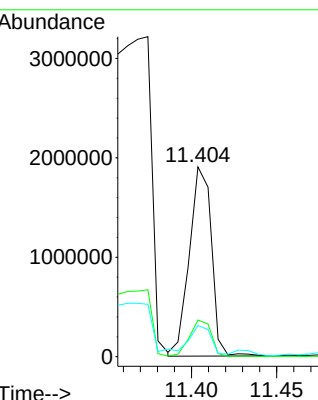
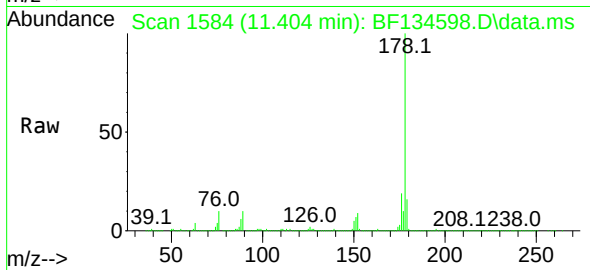
179 16.4 12.3 18.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2023

Supervised By :mohammad ahmed 08/03/2023



#73

Carbazole

Concen: 9.085 ng

RT: 11.551 min Scan# 1609

Delta R.T. 0.006 min

Lab File: BF134598.D

Acq: 03 Aug 2023 00:54

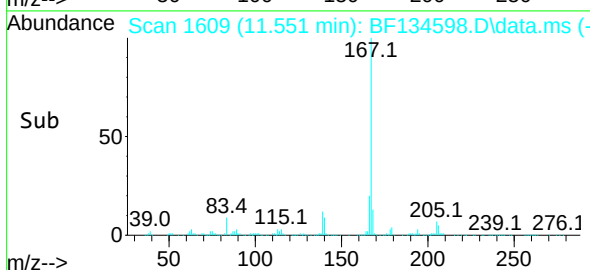
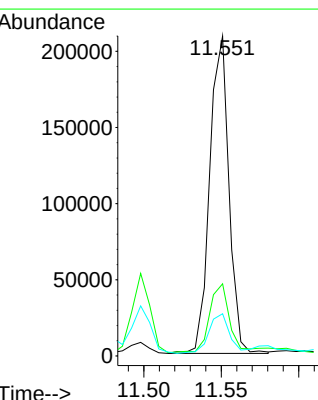
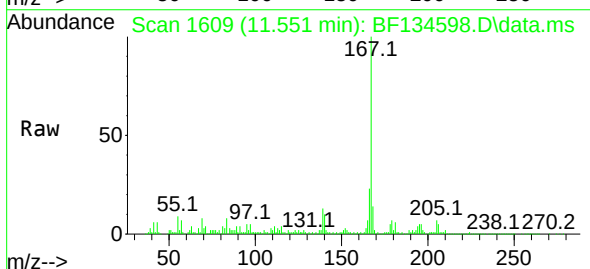
Tgt Ion:167 Resp: 179705

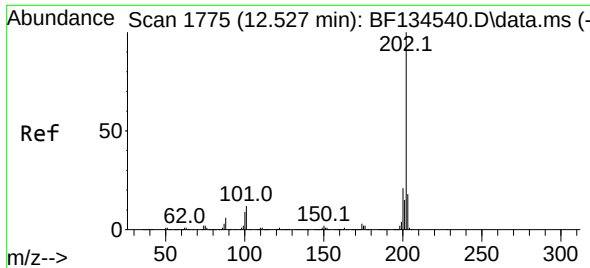
Ion Ratio Lower Upper

167 100

166 22.5 17.5 26.3

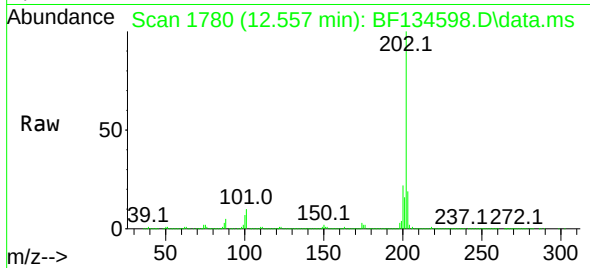
139 13.2 11.0 16.4





#75
Fluoranthene
Concen: 188.836 ng
RT: 12.557 min Scan# 11
Delta R.T. 0.029 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54

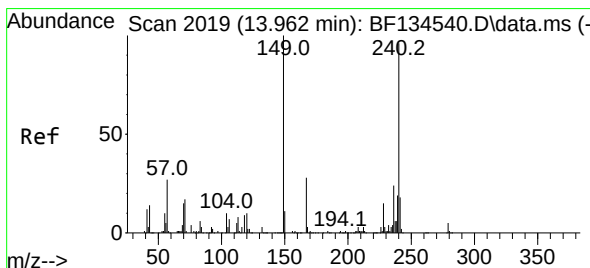
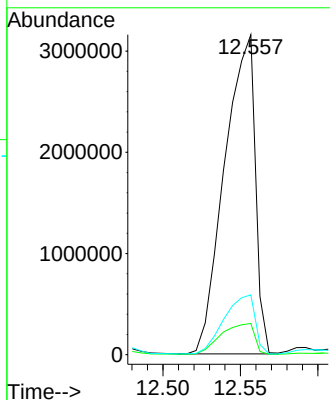
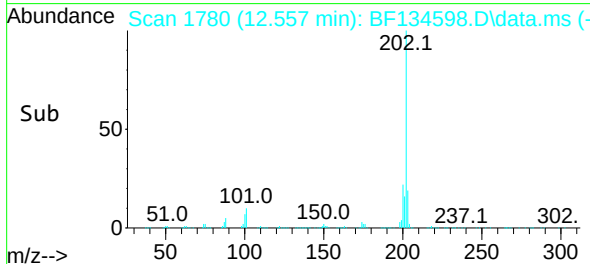
Instrument :
BNA_F
ClientSampleId :
RB-57-(5-7)



Tgt Ion:202 Resp: 4326069
Ion Ratio Lower Upper
202 100
101 9.7 0.0 28.5
203 18.7 0.0 37.5

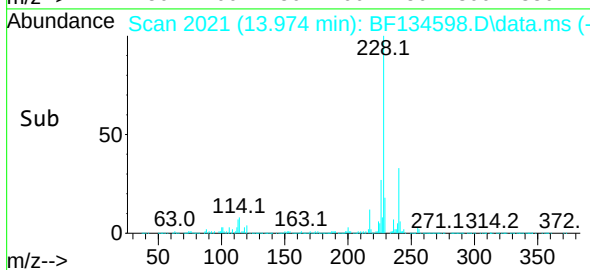
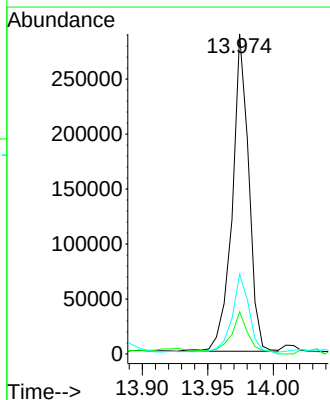
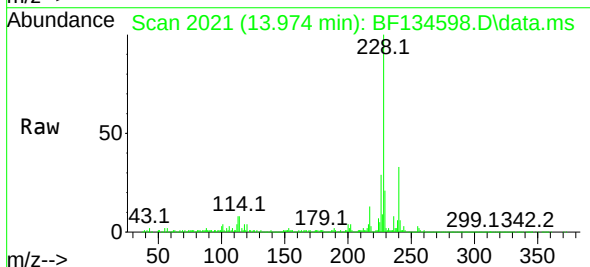
Manual Integrations
APPROVED

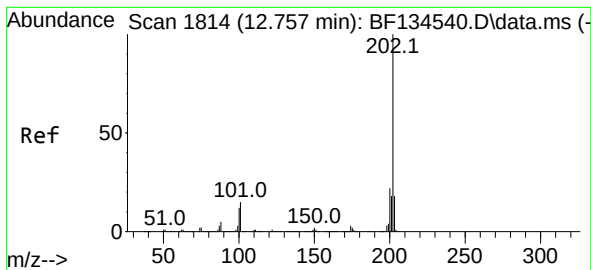
Reviewed By :Yogesh Patel 08/03/2023
Supervised By :mohammad ahmed 08/03/2023



#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2021
Delta R.T. 0.012 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54

Tgt Ion:240 Resp: 251860
Ion Ratio Lower Upper
240 100
120 13.2 6.6 10.0#
236 24.9 20.2 30.2





#78

Pyrene

Concen: 268.168 ng

RT: 12.792 min Scan# 1820

Delta R.T. 0.035 min

Lab File: BF134598.D

Acq: 03 Aug 2023 00:54

Instrument :

BNA_F

ClientSampleId :

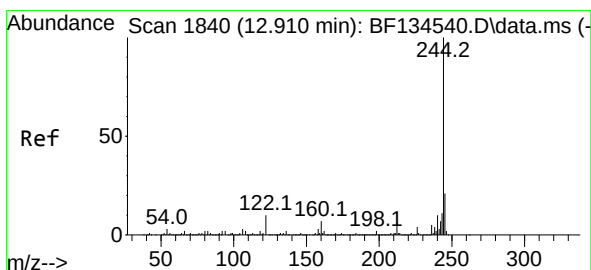
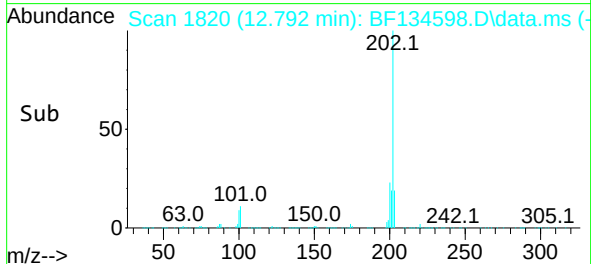
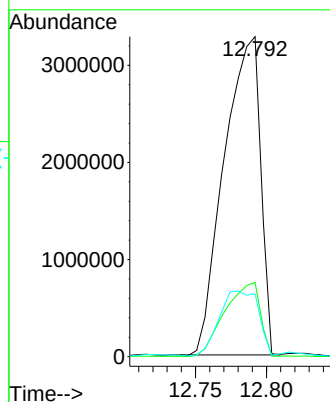
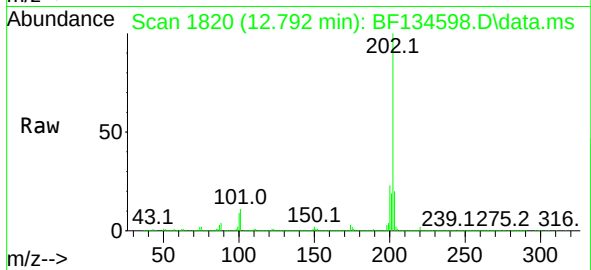
RB-57-(5-7)

Tgt Ion:202 Resp: 5844404
 Ion Ratio Lower Upper
 202 100
 200 23.2 15.8 23.8
 203 19.7 13.5 20.3

Manual Integrations

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Reviewed By :Yogesh Patel 08/03/2023
 Supervised By :mohammad ahmed 08/03/2023



#79

Terphenyl-d14

Concen: 64.253 ng

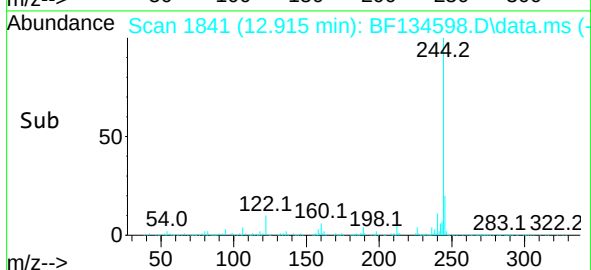
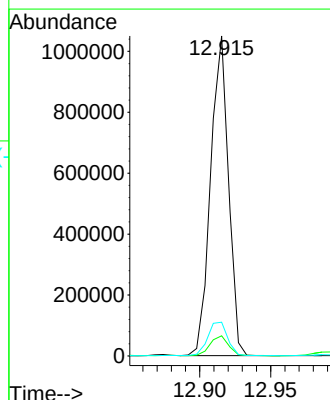
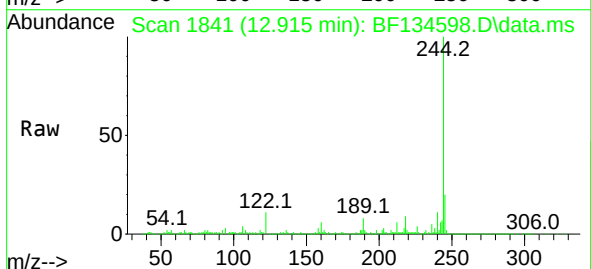
RT: 12.915 min Scan# 1841

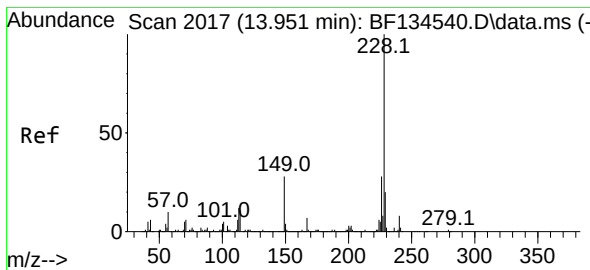
Delta R.T. 0.006 min

Lab File: BF134598.D

Acq: 03 Aug 2023 00:54

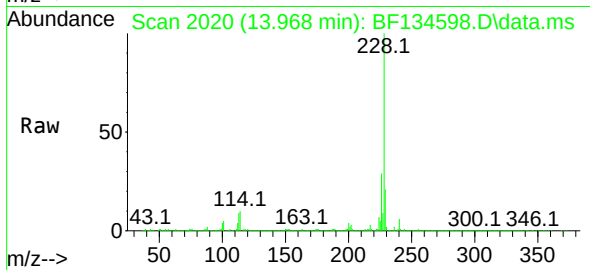
Tgt Ion:244 Resp: 917986
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.6 8.4
 122 10.5 8.0 12.0





#81
Benzo(a)anthracene
Concen: 146.805 ng
RT: 13.968 min Scan# 2017
Delta R.T. 0.018 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54

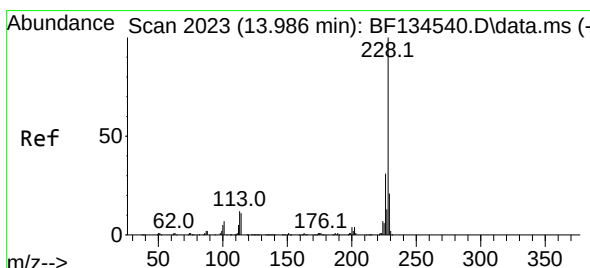
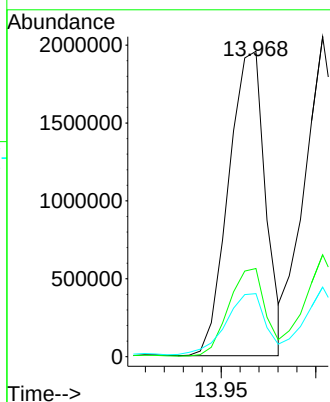
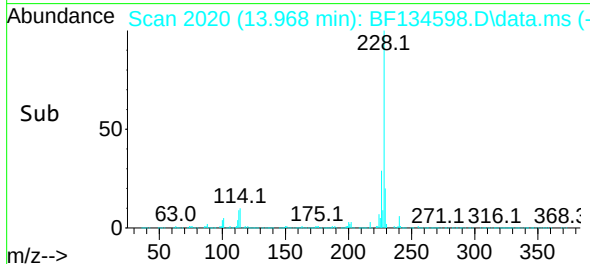
Instrument :
BNA_F
ClientSampleId :
RB-57-(5-7)



Tgt Ion:228 Resp: 2643840
Ion Ratio Lower Upper
228 100
226 28.9 22.3 33.5
229 20.7 15.8 23.6

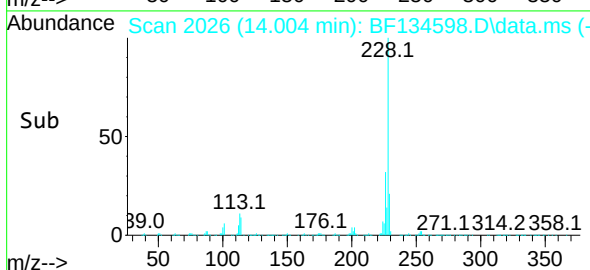
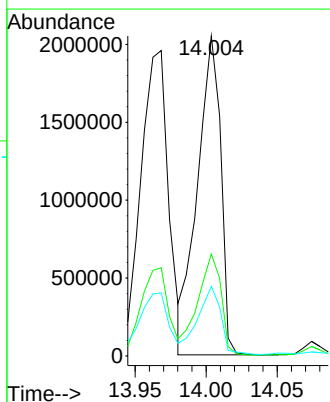
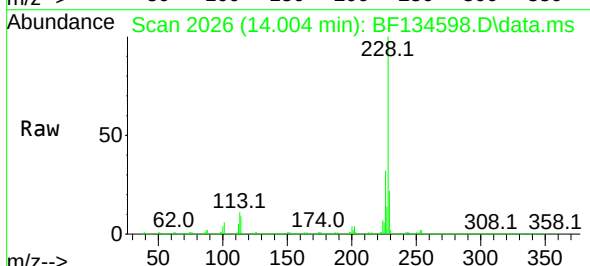
Manual Integrations
APPROVED

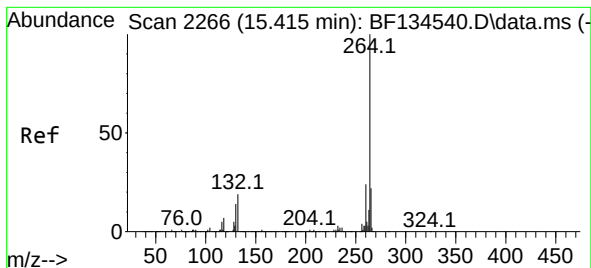
Reviewed By :Yogesh Patel 08/03/2023
Supervised By :mohammad ahmed 08/03/2023



#83
Chrysene
Concen: 132.799 ng
RT: 14.004 min Scan# 2026
Delta R.T. 0.018 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54

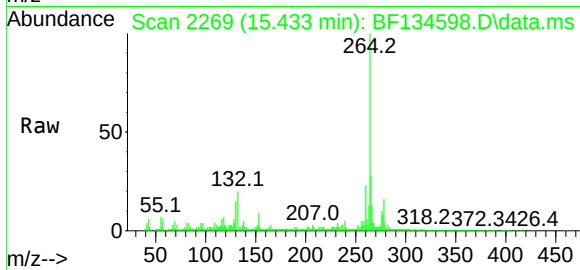
Tgt Ion:228 Resp: 2330056
Ion Ratio Lower Upper
228 100
226 31.9 24.5 36.7
229 21.8 15.8 23.8





#86
Perylene-d12
Concen: 20.000 ng
RT: 15.433 min Scan# 21
Delta R.T. 0.018 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54

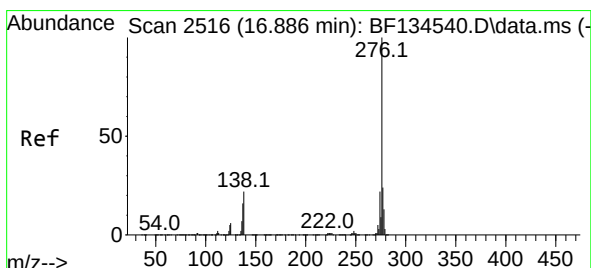
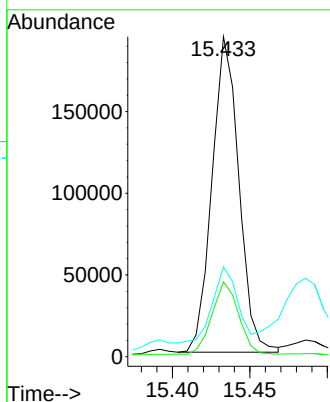
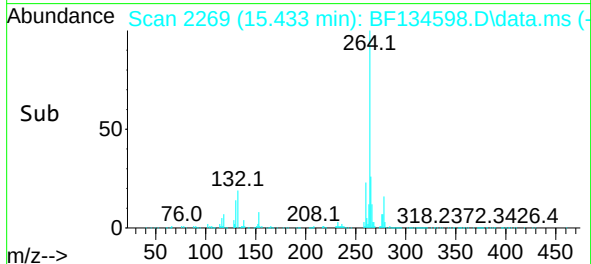
Instrument :
BNA_F
ClientSampleId :
RB-57-(5-7)



Tgt Ion:264 Resp: 232722
Ion Ratio Lower Upper
264 100
260 23.4 18.4 27.6
265 28.1 15.8 23.8

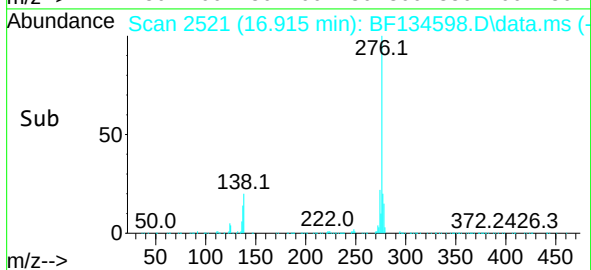
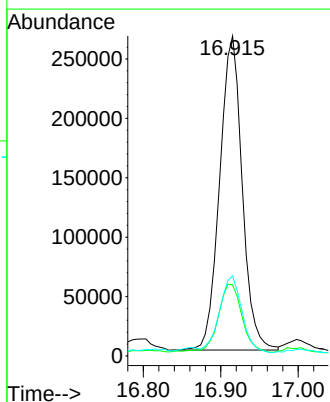
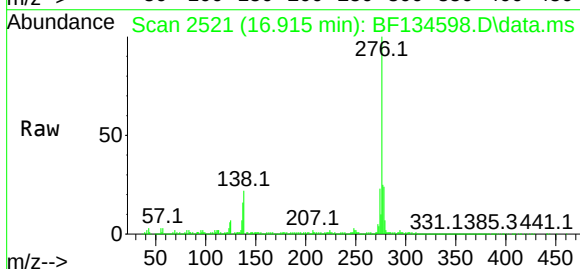
Manual Integrations
APPROVED

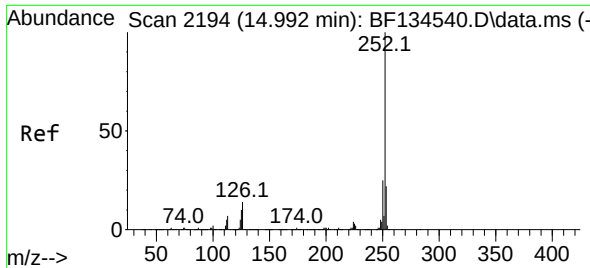
Reviewed By :Yogesh Patel 08/03/2023
Supervised By :mohammad ahmed 08/03/2023



#87
Indeno(1,2,3-cd)pyrene
Concen: 39.053 ng
RT: 16.915 min Scan# 2521
Delta R.T. 0.029 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54

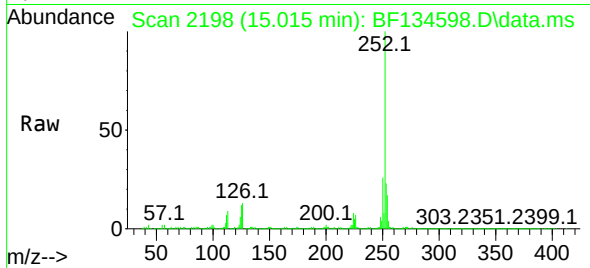
Tgt Ion:276 Resp: 534522
Ion Ratio Lower Upper
276 100
138 23.0 14.2 21.4#
277 24.3 19.9 29.9





#88
Benzo(b)fluoranthene
Concen: 112.700 ng m
RT: 15.015 min Scan# 2194
Delta R.T. 0.024 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54

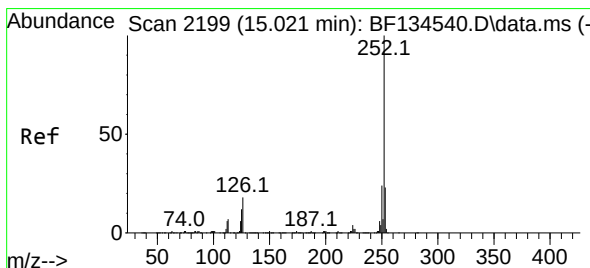
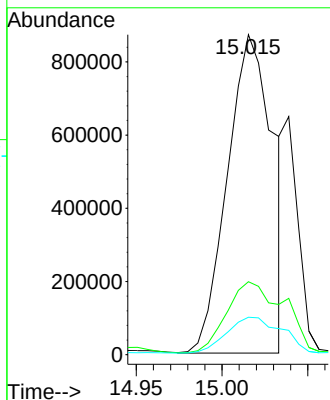
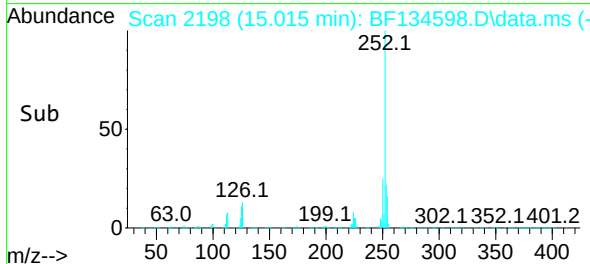
Instrument :
BNA_F
ClientSampleId :
RB-57-(5-7)



Tgt Ion:252 Resp: 159960
Ion Ratio Lower Upper
252 100
253 22.8 17.3 25.9
125 11.7 6.0 9.0

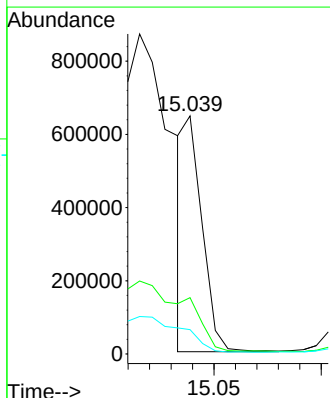
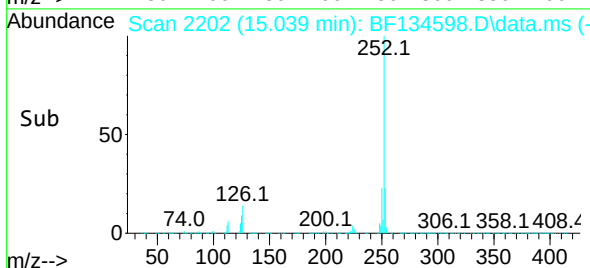
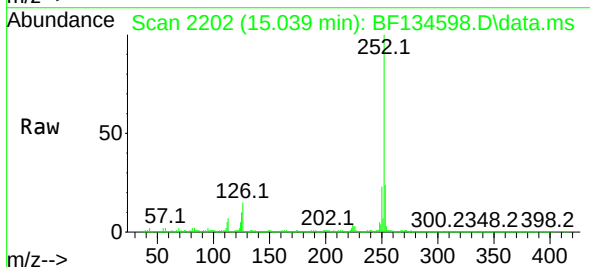
Manual Integrations
APPROVED

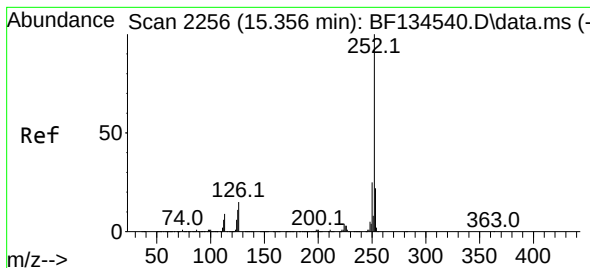
Reviewed By :Yogesh Patel 08/03/2023
Supervised By :mohammad ahmed 08/03/2023



#89
Benzo(k)fluoranthene
Concen: 26.430 ng m
RT: 15.039 min Scan# 2202
Delta R.T. 0.018 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54

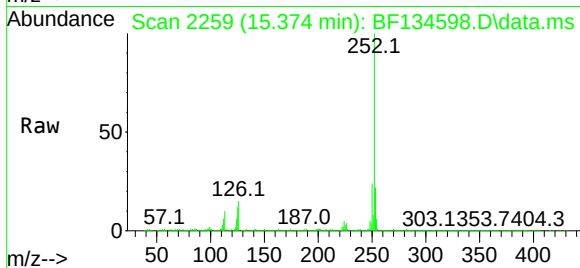
Tgt Ion:252 Resp: 373693
Ion Ratio Lower Upper
252 100
253 23.6 17.9 26.9
125 10.2 6.3 9.5





#90
Benzo(a)pyrene
Concen: 84.910 ng
RT: 15.374 min Scan# 211
Delta R.T. 0.018 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54

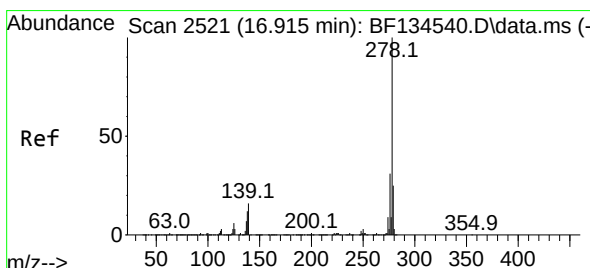
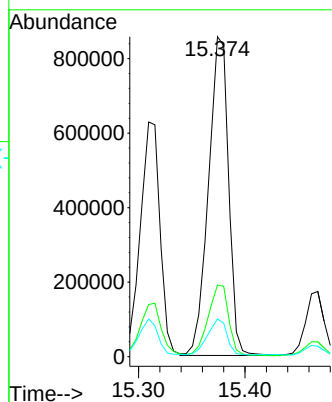
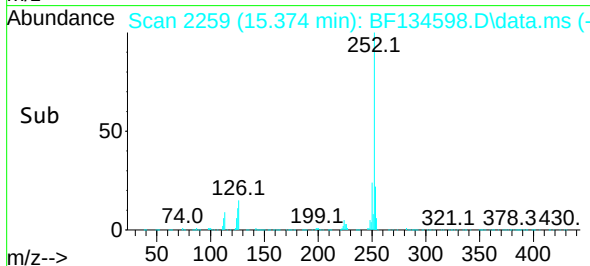
Instrument :
BNA_F
ClientSampleId :
RB-57-(5-7)



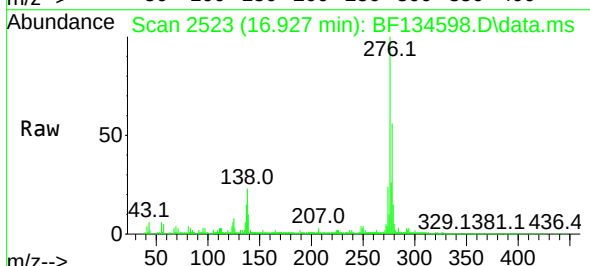
Tgt Ion:252 Resp: 112367
Ion Ratio Lower Upper
252 100
253 22.4 17.0 25.4
125 11.8 6.2 9.4

Manual Integrations
APPROVED

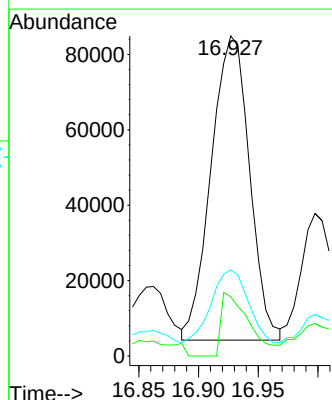
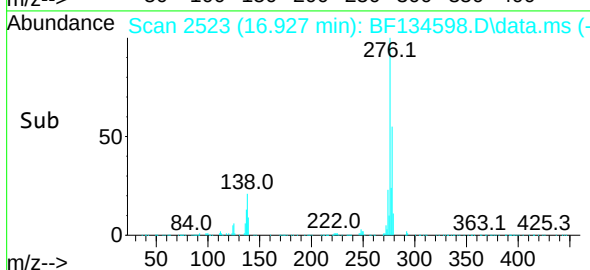
Reviewed By :Yogesh Patel 08/03/2023
Supervised By :mohammad ahmed 08/03/2023

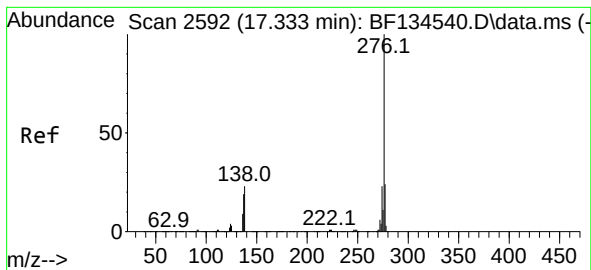


#91
Dibenzo(a,h)anthracene
Concen: 16.307 ng m
RT: 16.927 min Scan# 2523
Delta R.T. 0.012 min
Lab File: BF134598.D
Acq: 03 Aug 2023 00:54



Tgt Ion:278 Resp: 180376
Ion Ratio Lower Upper
278 100
139 18.5 10.0 15.0#
279 26.9 19.7 29.5





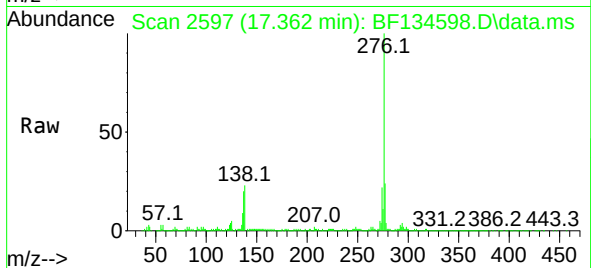
#92
 Benzo(g,h,i)perylene
 Concen: 45.083 ng
 RT: 17.362 min Scan# 2597
 Delta R.T. 0.029 min
 Lab File: BF134598.D
 Acq: 03 Aug 2023 00:54

Instrument :

BNA_F

ClientSampleId :

RB-57-(5-7)



Tgt Ion:276 Resp: 508679
 Ion Ratio Lower Upper
 276 100
 277 24.4 19.0 28.6
 138 23.4 12.2 18.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2023

Supervised By :mohammad ahmed 08/03/2023

