

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080723\
 Data File : BF134659.D
 Acq On : 07 Aug 2023 17:54
 Operator : CG\JU
 Sample : 03815-03 50X
 Misc :
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DUP-01

Manual Integrations
 APPROVED

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

Quant Time: Aug 08 01:23:16 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Aug 04 09:29:15 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.798	152	179676	20.000	ng	0.00
21) Naphthalene-d8	8.080	136	685997	20.000	ng	# 0.00
39) Acenaphthene-d10	9.833	164	314203	20.000	ng	0.00
64) Phenanthrene-d10	11.321	188	462137	20.000	ng	# 0.00
76) Chrysene-d12	13.968	240	380776	20.000	ng	# 0.00
86) Perylene-d12	15.439	264	361617	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.416	112	14992	1.268	ng	-0.01
7) Phenol-d6	6.422	99	20096	1.330	ng	-0.02
23) Nitrobenzene-d5	7.351	82	10088	0.919	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	2508	0.783	ng	-0.01
45) 2-Fluorobiphenyl	9.151	172	22698	1.201	ng	-0.01
79) Terphenyl-d14	12.910	244	19638	0.909	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.104	128	3332158	96.649	ng	97
37) 2-Methylnaphthalene	8.792	142	1324393	57.954	ng	100
38) 1-Methylnaphthalene	8.892	142	972998	45.787	ng	98
46) 1,1'-Biphenyl	9.251	154	400566	16.394	ng	98
49) Acenaphthylene	9.692	152	730407	25.381	ng	98
52) Acenaphthene	9.863	154	204257	10.952	ng	100
55) Dibenzofuran	10.033	168	68255	2.571	ng	# 88
58) Fluorene	10.380	166	645681	33.390	ng	94
71) Phenanthrene	11.351	178	2247833	91.573	ng	99
72) Anthracene	11.398	178	704948	28.115	ng	99
75) Fluoranthene	12.539	202	877060	33.825	ng	97
78) Pyrene	12.768	202	1494743	45.365	ng	97
81) Benzo(a)anthracene	13.962	228	640206m	23.513	ng	
83) Chrysene	13.998	228	594784	22.422	ng	98
87) Indeno(1,2,3-cd)pyrene	16.915	276	131125	6.165	ng	# 94
88) Benzo(b)fluoranthene	15.009	252	406966m	18.453	ng	
89) Benzo(k)fluoranthene	15.033	252	110903m	5.048	ng	
90) Benzo(a)pyrene	15.374	252	446372	21.707	ng	# 95
91) Dibenzo(a,h)anthracene	16.933	278	42287	2.460	ng	# 93
92) Benzo(g,h,i)perylene	17.362	276	142550	8.131	ng	# 91

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

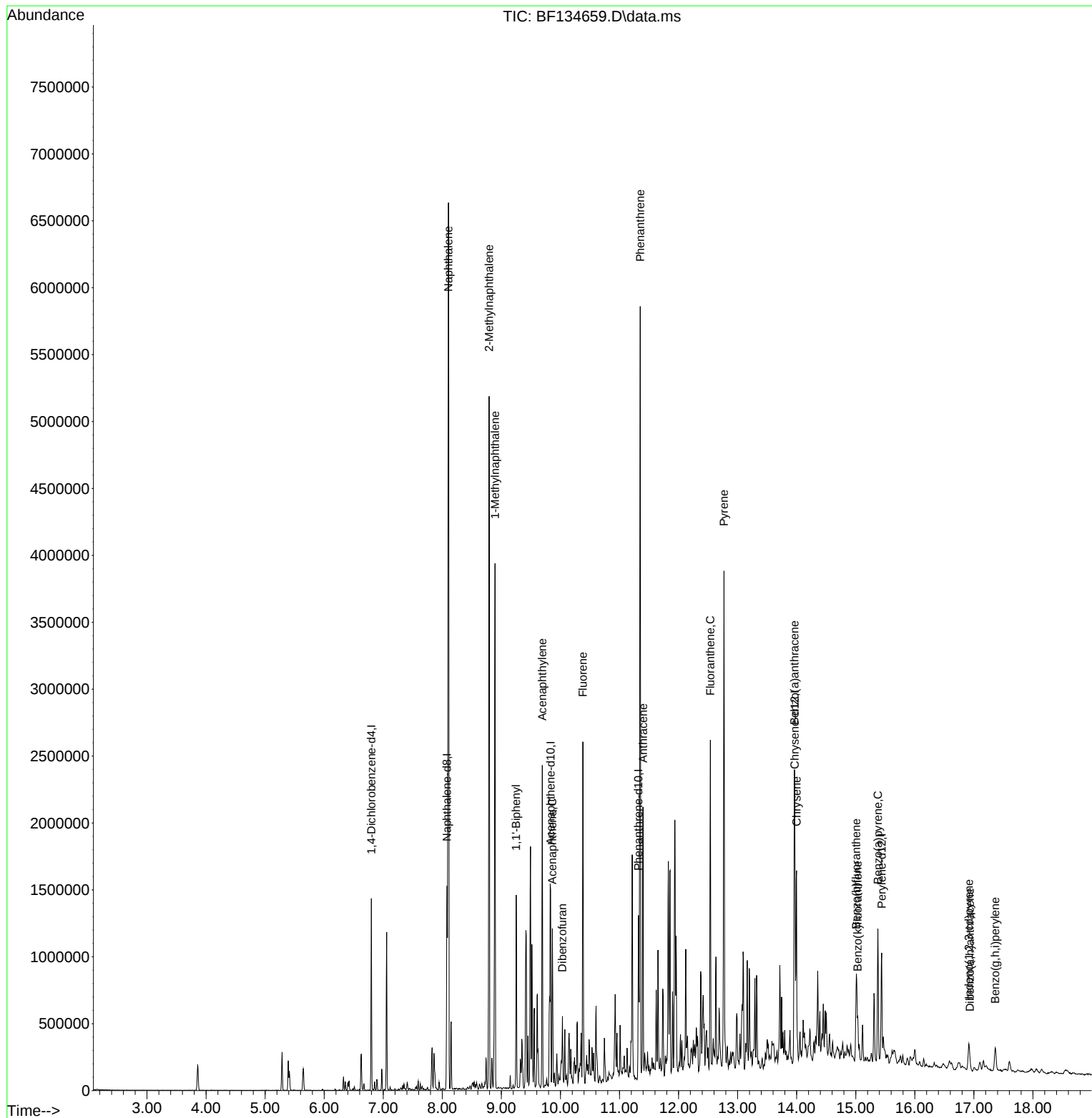
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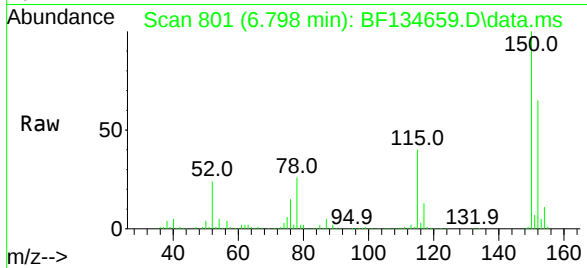
Reviewed By :Yogesh Patel 08/08/2023
Supervised By :mohammad ahmed 08/08/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.798 min Scan# 800
Delta R.T. 0.000 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54

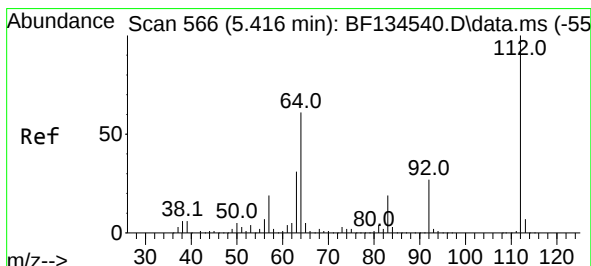
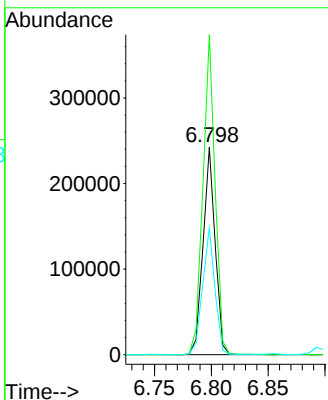
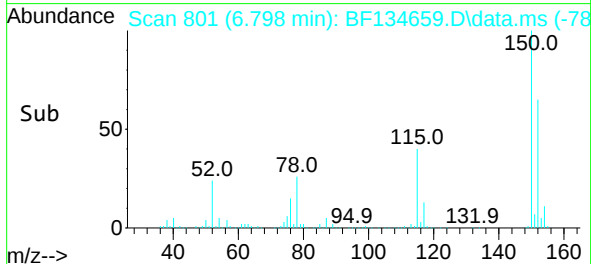
Instrument :
BNA_F
ClientSampleId :
DUP-01



Tgt Ion:152 Resp: 179670
Ion Ratio Lower Upper
152 100
150 154.2 128.3 192.5
115 61.1 52.4 78.6

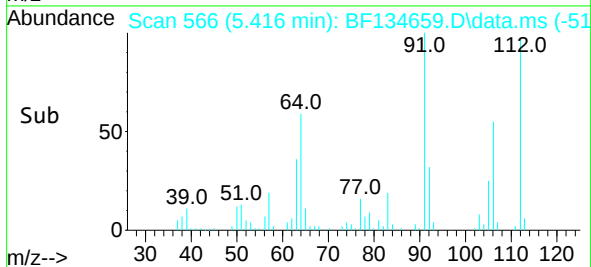
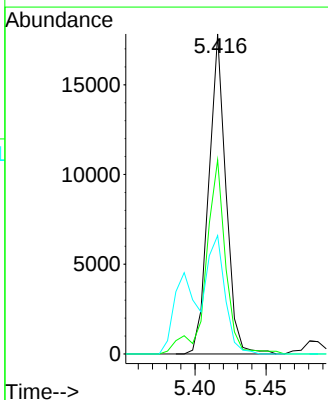
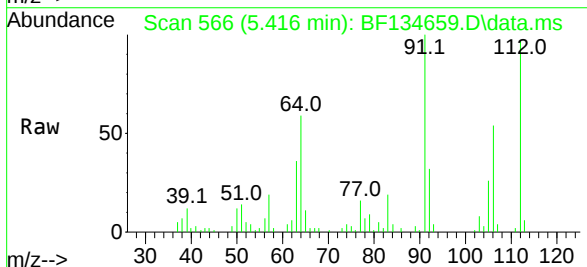
Manual Integrations
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Supervised By :mohammad ahmed 08/08/2023



#5
2-Fluorophenol
Concen: 1.268 ng
RT: 5.416 min Scan# 566
Delta R.T. -0.012 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54

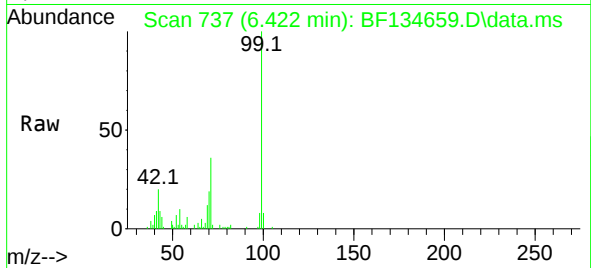
Tgt Ion:112 Resp: 14992
Ion Ratio Lower Upper
112 100
64 60.6 44.9 67.3
63 37.0 25.4 38.0





#7
Phenol-d6
Concen: 1.330 ng
RT: 6.422 min Scan# 71
Delta R.T. -0.018 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54

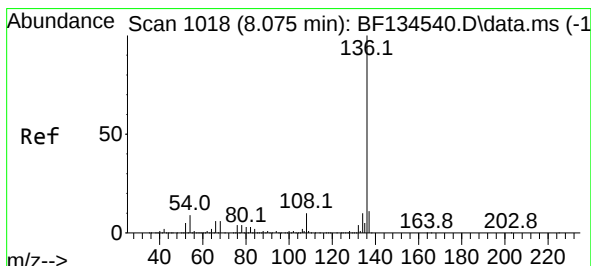
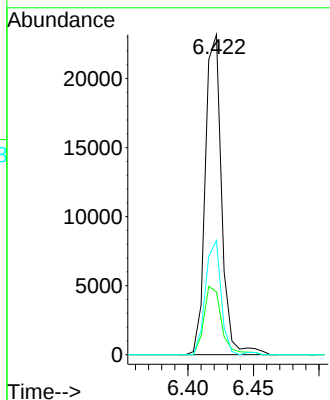
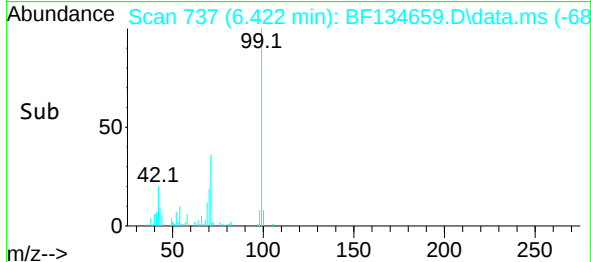
Instrument :
BNA_F
ClientSampleId :
DUP-01



Tgt Ion: 99 Resp: 20090
Ion Ratio Lower Upper
99 100
42 19.6 18.7 28.1
71 35.7 36.4 54.6

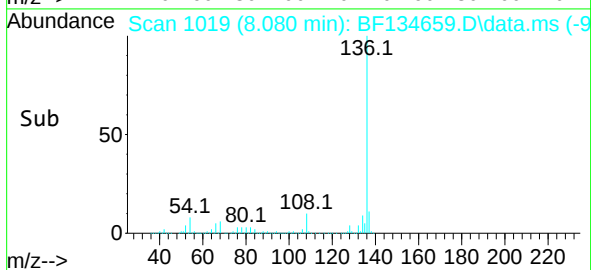
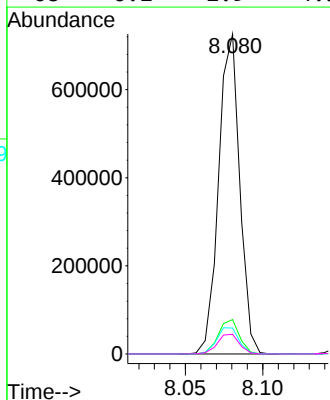
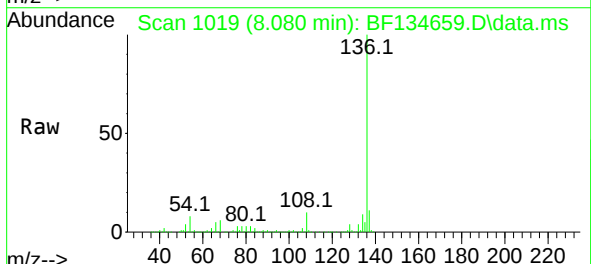
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Supervised By :mohammad ahmed 08/08/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.080 min Scan# 1019
Delta R.T. -0.000 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54

Tgt Ion:136 Resp: 685997
Ion Ratio Lower Upper
136 100
137 10.8 8.4 12.6
54 8.1 5.2 7.8#
68 6.2 2.9 4.3#





#23

Nitrobenzene-d5

Concen: 0.919 ng

RT: 7.351 min Scan# 896

Delta R.T. -0.018 min

Lab File: BF134659.D

Acq: 07 Aug 2023 17:54

Instrument :

BNA_F

ClientSampleId :

DUP-01

Tgt Ion: 82 Resp: 1008

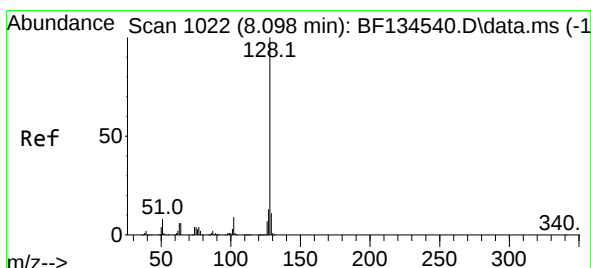
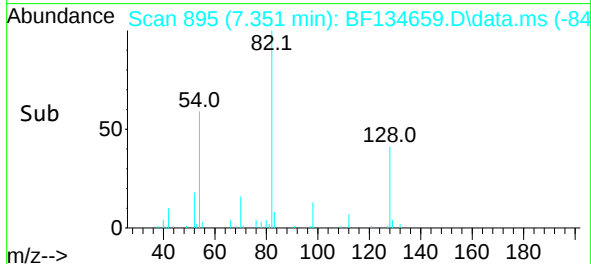
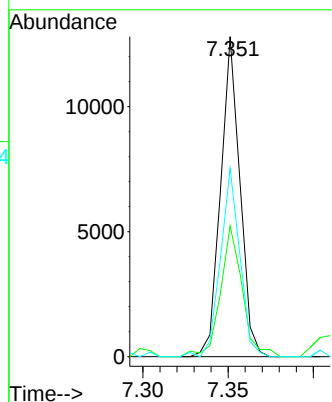
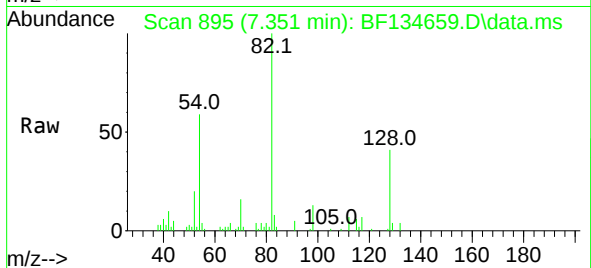
Ion	Ratio	Lower	Upper
82	100		
128	40.9	34.3	51.5
54	58.9	43.8	65.6

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#31

Naphthalene

Concen: 96.649 ng

RT: 8.104 min Scan# 1023

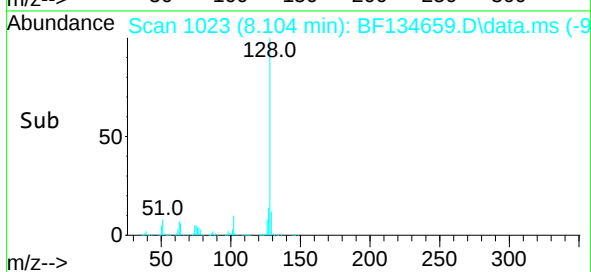
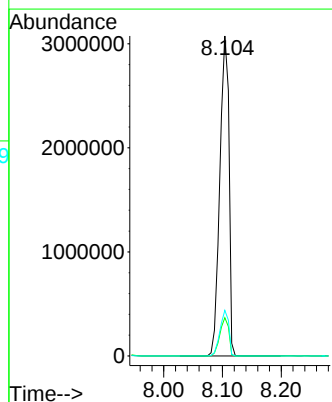
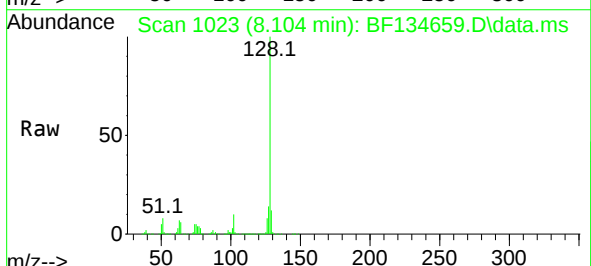
Delta R.T. -0.000 min

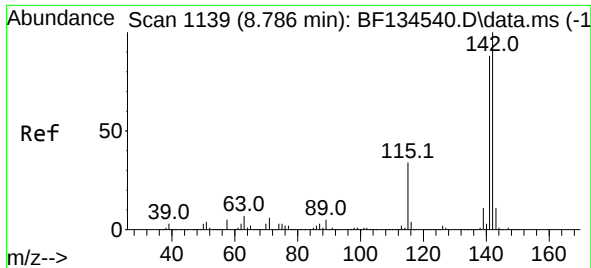
Lab File: BF134659.D

Acq: 07 Aug 2023 17:54

Tgt Ion:128 Resp: 3332158

Ion	Ratio	Lower	Upper
128	100		
129	12.0	8.4	12.6
127	14.3	10.7	16.1





#37

2-Methylnaphthalene

Concen: 57.954 ng

RT: 8.792 min Scan# 1139

Delta R.T. -0.000 min

Lab File: BF134659.D

Acq: 07 Aug 2023 17:54

Instrument :

BNA_F

ClientSampleId :

DUP-01

Tgt Ion:142 Resp: 132439

Ion Ratio Lower Upper

142 100

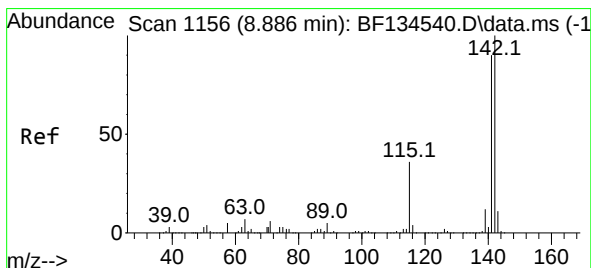
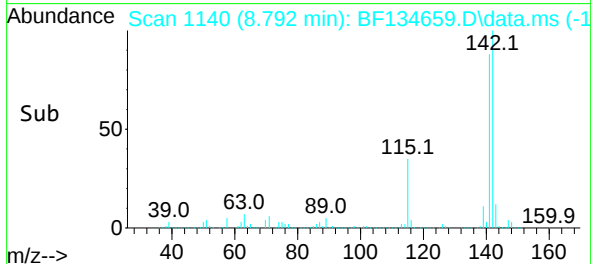
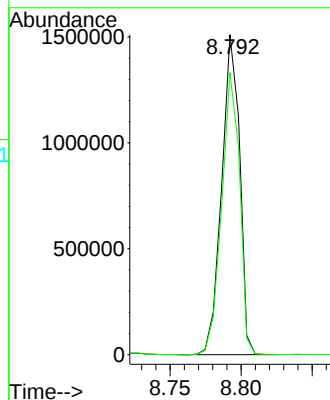
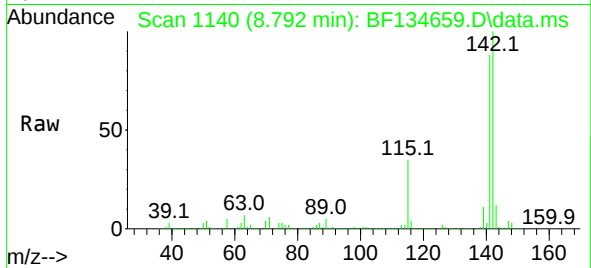
141 88.2 70.8 106.2

Manual Integrations

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Supervised By :mohammad ahmed 08/08/2023



#38

1-Methylnaphthalene

Concen: 45.787 ng

RT: 8.892 min Scan# 1157

Delta R.T. -0.000 min

Lab File: BF134659.D

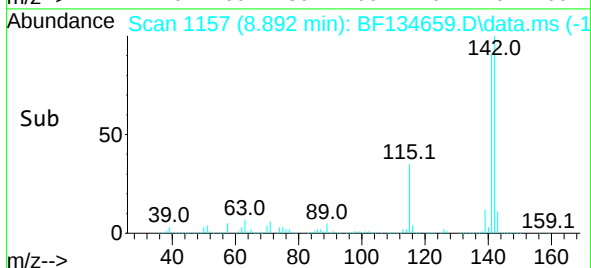
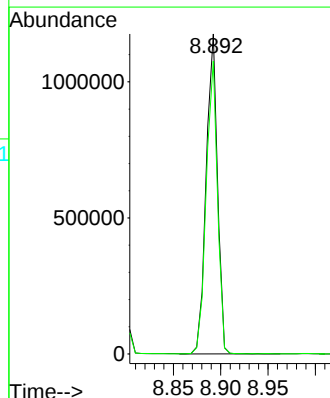
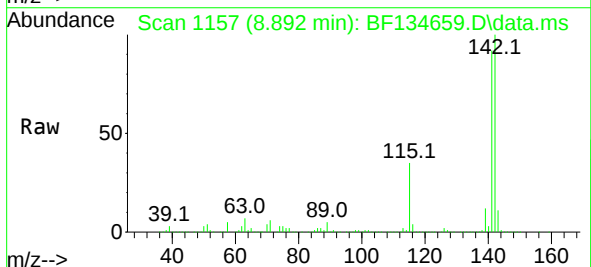
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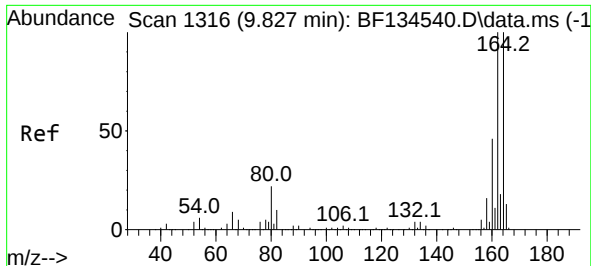
Tgt Ion:142 Resp: 972998

Ion Ratio Lower Upper

142 100

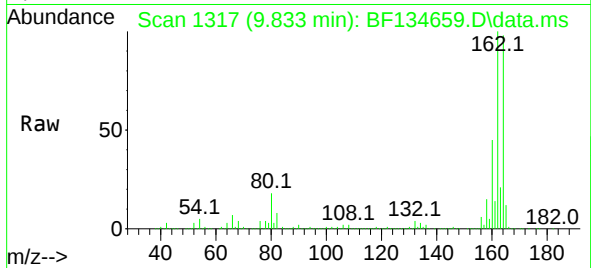
141 91.6 71.4 107.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.833 min Scan# 1317
Delta R.T. -0.000 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54

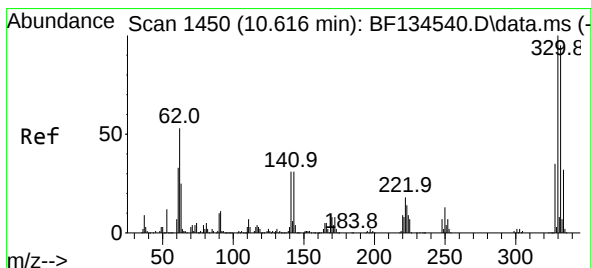
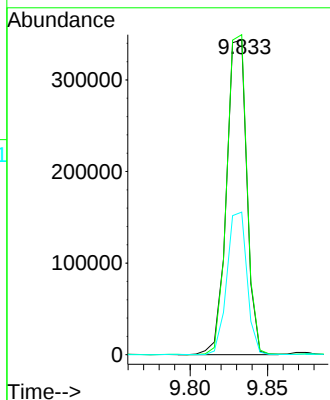
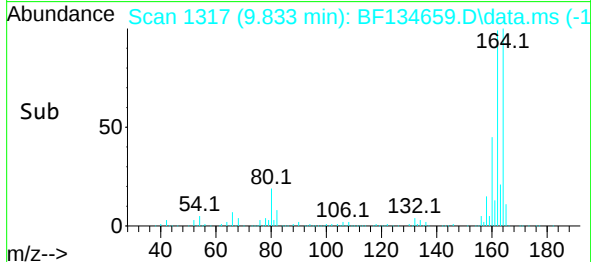
Instrument :
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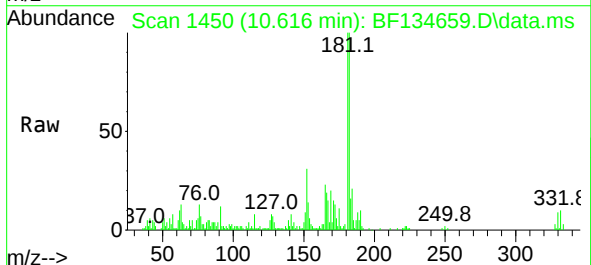
Tgt Ion:164 Resp: 31420
Ion Ratio Lower Upper
164 100
162 101.7 82.6 123.8
160 45.3 37.2 55.8

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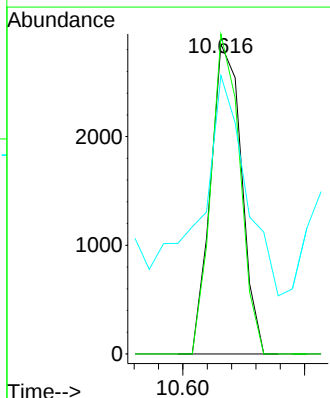
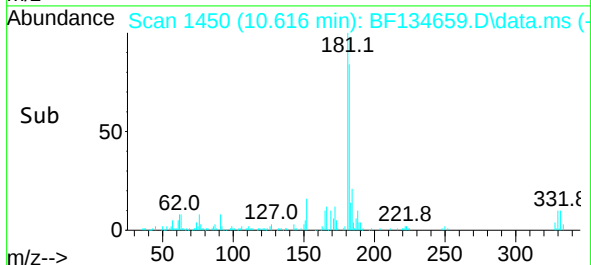
Reviewed By :Yogesh Patel 08/08/2023
Supervised By :mohammad ahmed 08/08/2023

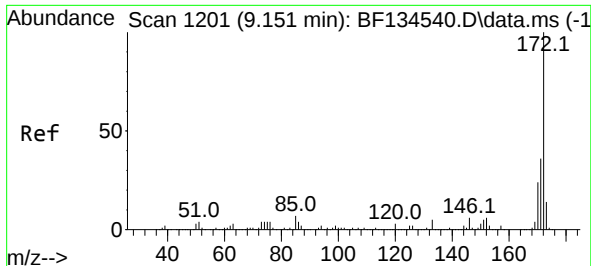


#42
2,4,6-Tribromophenol
Concen: 0.783 ng
RT: 10.616 min Scan# 1450
Delta R.T. -0.012 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54



Tgt Ion:330 Resp: 2508
Ion Ratio Lower Upper
330 100
332 96.5 78.8 118.2
141 102.7 25.4 38.2#





#45

2-Fluorobiphenyl

Concen: 1.201 ng

RT: 9.151 min Scan# 1201

Delta R.T. -0.012 min

Lab File: BF134659.D

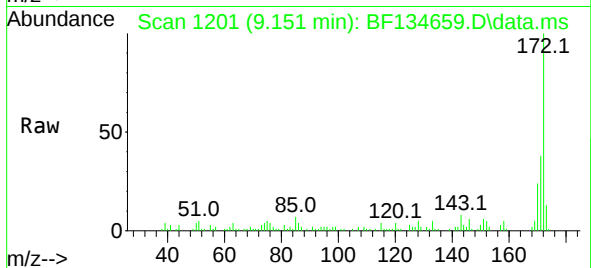
Acq: 07 Aug 2023 17:54

Instrument :

BNA_F

ClientSampleId :

DUP-01



Tgt Ion:172 Resp: 22698

Ion Ratio Lower Upper

172 100

171 38.3 28.8 43.2

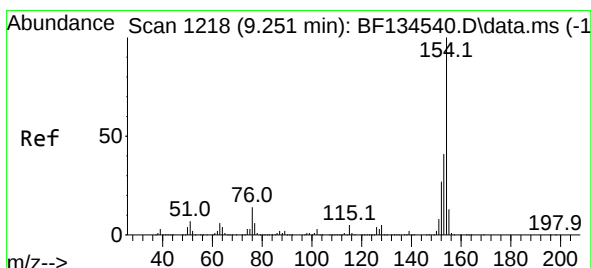
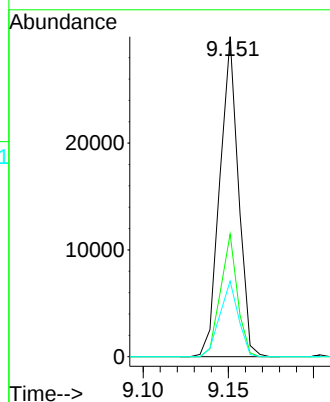
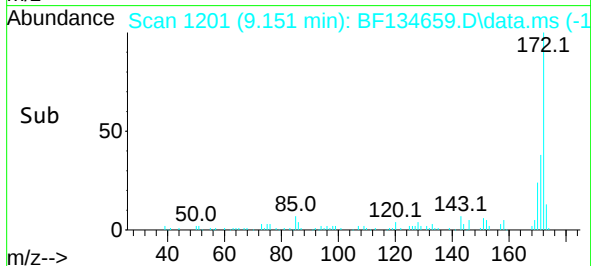
170 23.6 18.7 28.1

Manual Integrations

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Supervised By :mohammad ahmed 08/08/2023



#46

1,1'-Biphenyl

Concen: 16.394 ng

RT: 9.251 min Scan# 1218

Delta R.T. -0.012 min

Lab File: BF134659.D

Acq: 07 Aug 2023 17:54

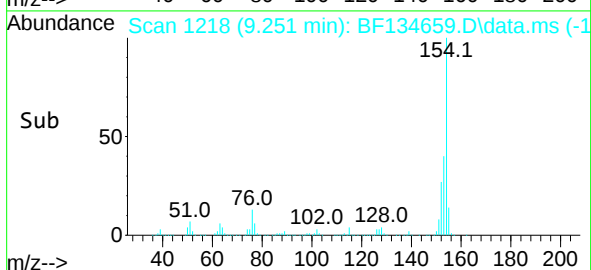
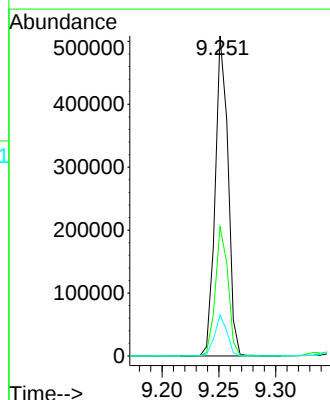
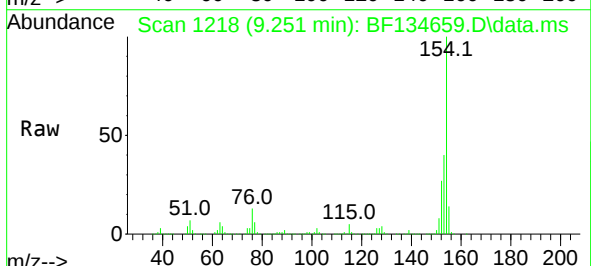
Tgt Ion:154 Resp: 400566

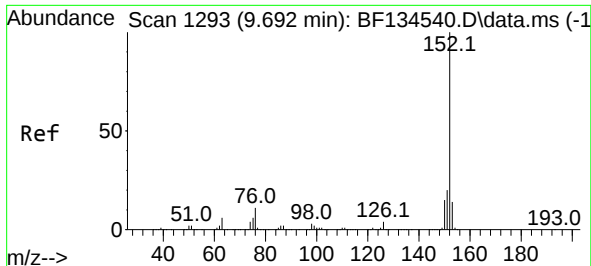
Ion Ratio Lower Upper

154 100

153 40.4 20.8 60.8

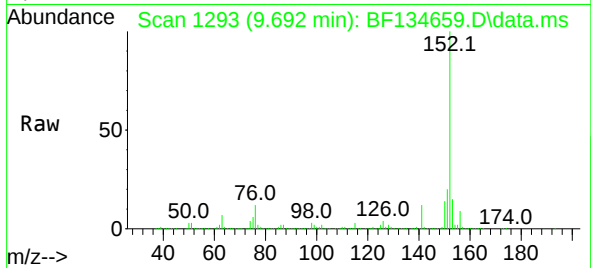
76 12.8 0.0 30.2





#49
Acenaphthylene
Concen: 25.381 ng
RT: 9.692 min Scan# 1293
Delta R.T. -0.006 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54

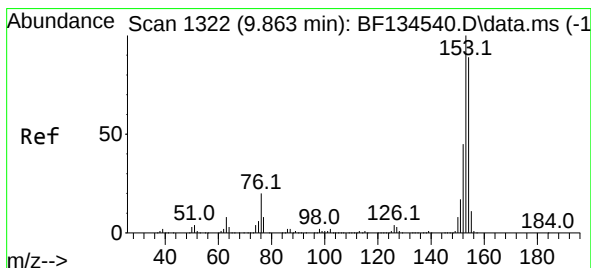
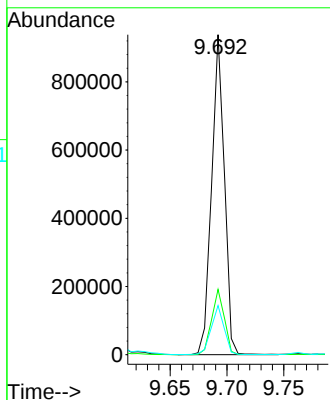
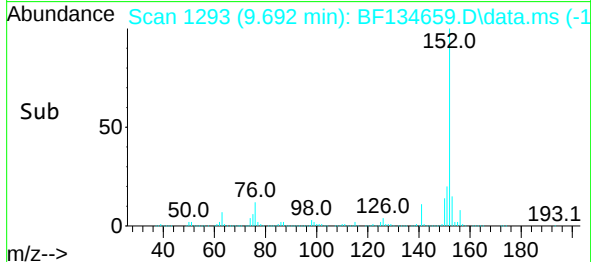
Instrument :
BNA_F
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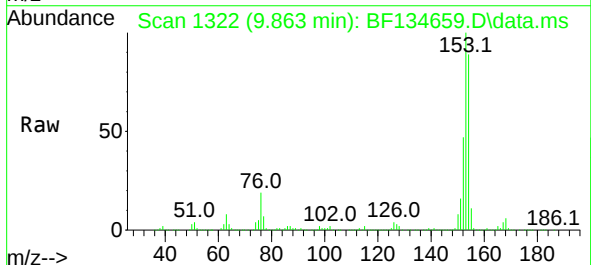
Tgt Ion:152 Resp: 73040
Ion Ratio Lower Upper
152 100
151 20.4 16.4 24.6
153 15.4 10.9 16.3

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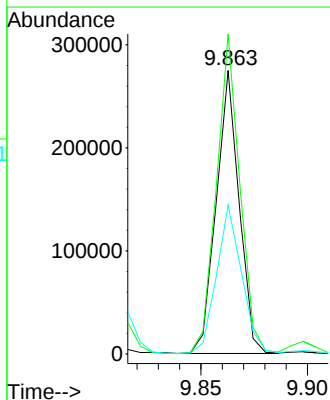
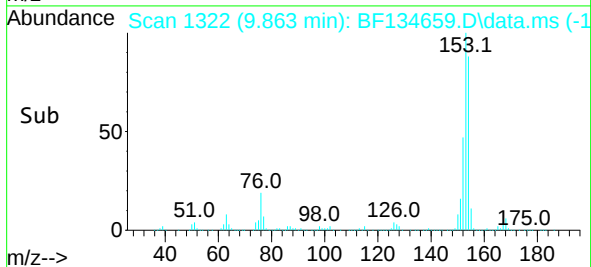
Reviewed By :Yogesh Patel 08/08/2023
Supervised By :mohammad ahmed 08/08/2023

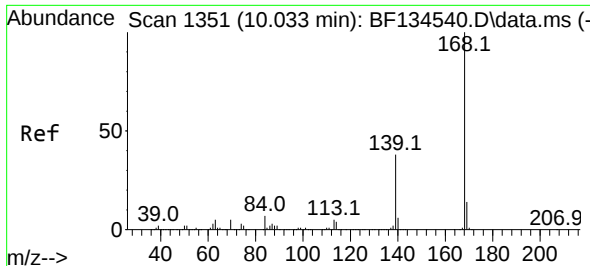


#52
Acenaphthene
Concen: 10.952 ng
RT: 9.863 min Scan# 1322
Delta R.T. -0.012 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54



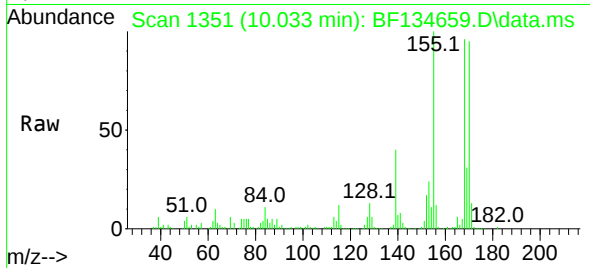
Tgt Ion:154 Resp: 204257
Ion Ratio Lower Upper
154 100
153 112.8 90.0 135.0
152 52.5 42.4 63.6





#55
Dibenzenofuran
Concen: 2.571 ng
RT: 10.033 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54

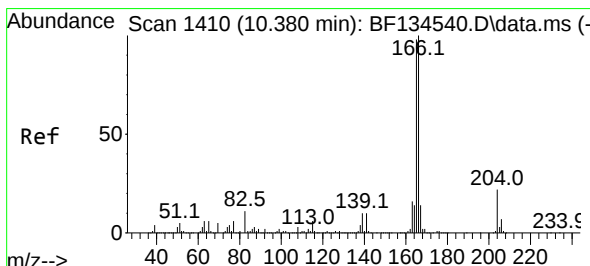
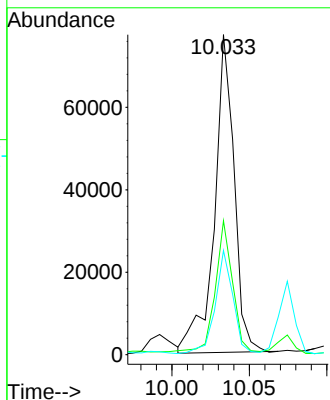
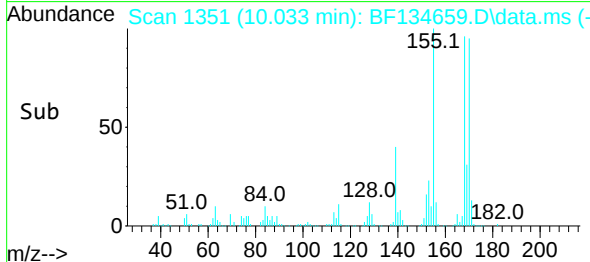
Instrument :
BNA_F
ClientSampleId :
DUP-01



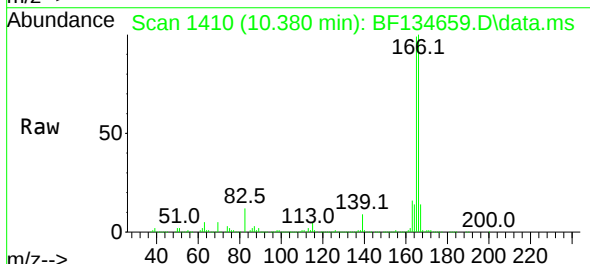
Tgt Ion:168 Resp: 6825
Ion Ratio Lower Upper
168 100
139 41.9 33.4 50.2
169 32.5 10.6 15.8

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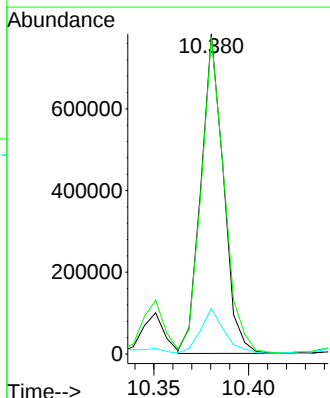
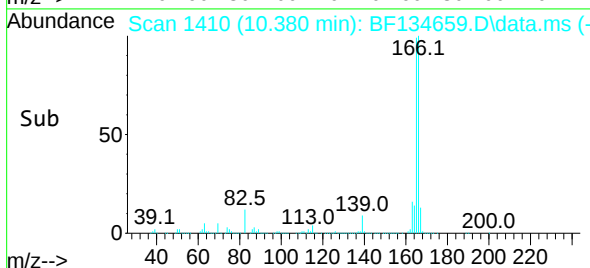
Reviewed By :Yogesh Patel 08/08/2023
Supervised By :mohammad ahmed 08/08/2023

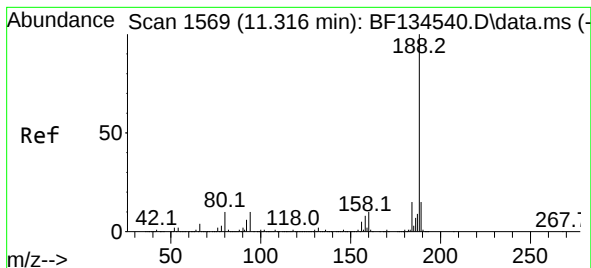


#58
Fluorene
Concen: 33.390 ng
RT: 10.380 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54



Tgt Ion:166 Resp: 645681
Ion Ratio Lower Upper
166 100
165 99.1 74.5 111.7
167 14.2 10.6 16.0





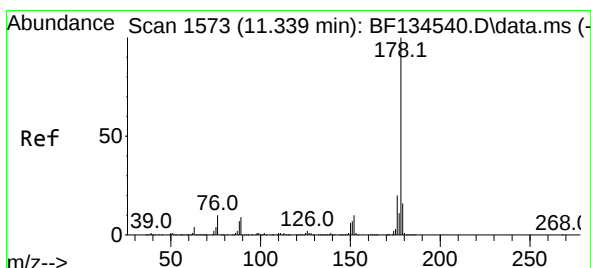
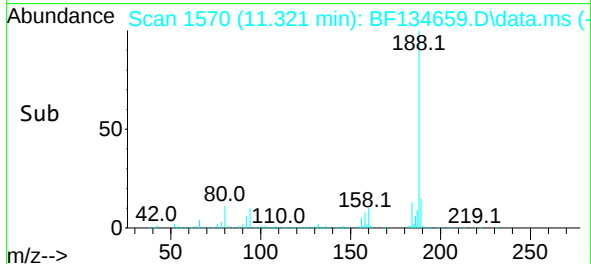
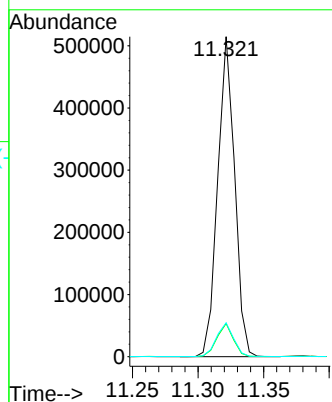
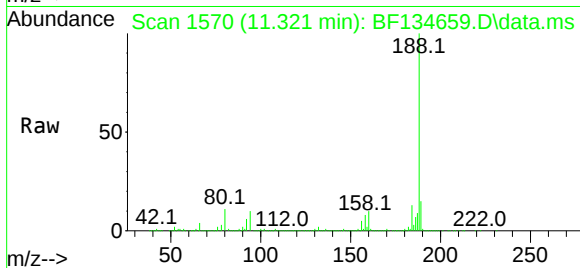
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.321 min Scan# 1570
Delta R.T. -0.000 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54

Instrument :
BNA_F
ClientSampleId :
DUP-01

Tgt Ion:188 Resp: 46213
Ion Ratio Lower Upper
188 100
94 10.4 5.1 7.7
80 10.6 6.6 9.8

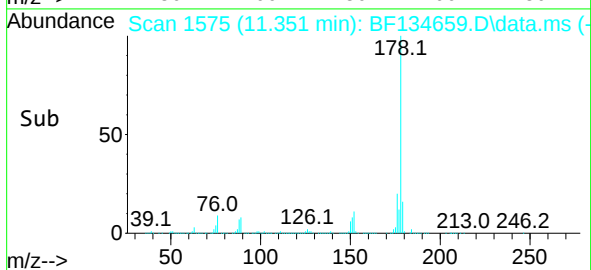
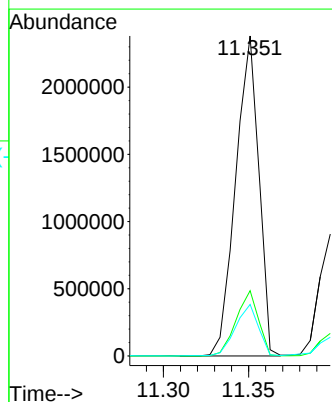
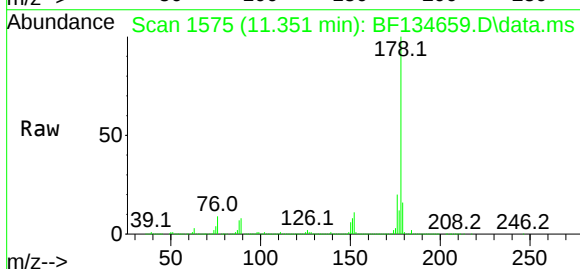
Manual Integrations
APPROVED

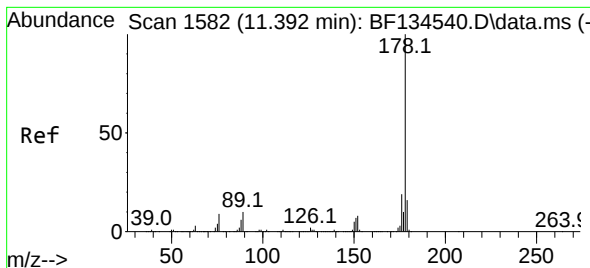
Reviewed By :Yogesh Patel 08/08/2023
Supervised By :mohammad ahmed 08/08/2023



#71
Phenanthrene
Concen: 91.573 ng
RT: 11.351 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54

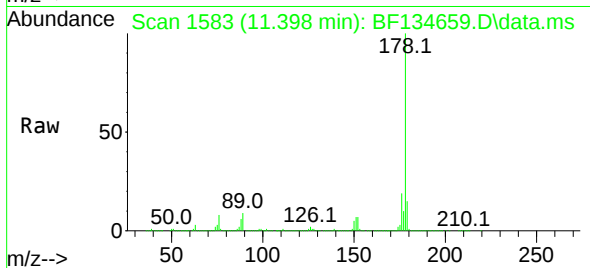
Tgt Ion:178 Resp: 2247833
Ion Ratio Lower Upper
178 100
176 20.4 15.8 23.6
179 16.1 12.7 19.1





#72
 Anthracene
 Concen: 28.115 ng
 RT: 11.398 min Scan# 1582
 Delta R.T. -0.006 min
 Lab File: BF134659.D
 Acq: 07 Aug 2023 17:54

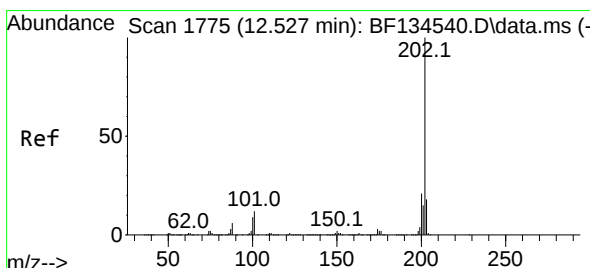
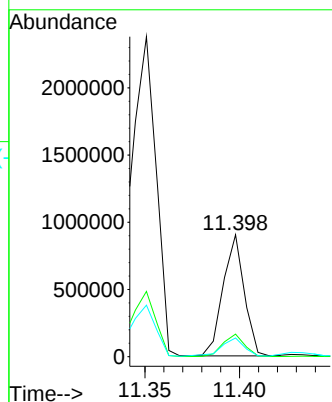
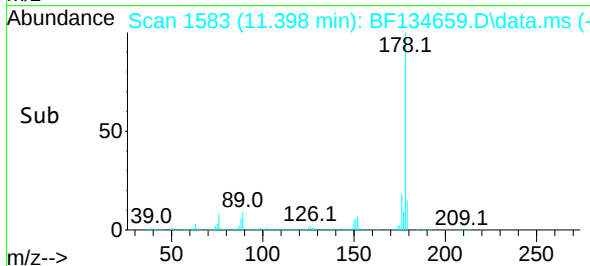
Instrument :
 BNA_F
 ClientSampleId :
 DUP-01



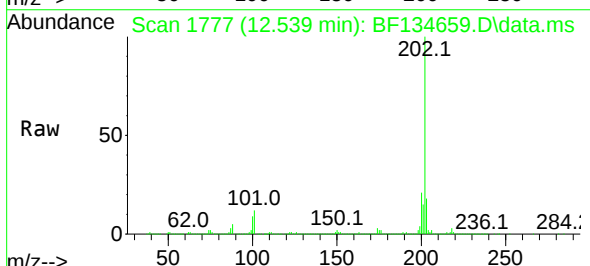
Tgt Ion:178 Resp: 704944
 Ion Ratio Lower Upper
 178 100
 176 18.5 14.6 21.8
 179 15.3 12.3 18.5

Manual Integrations
 APPROVED

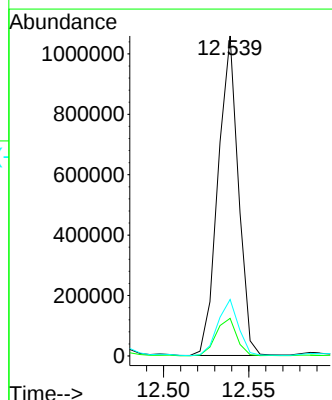
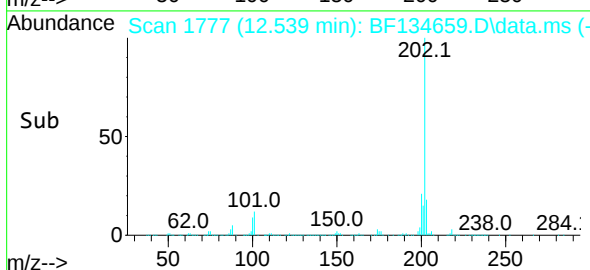
Reviewed By :Yogesh Patel 08/08/2023
 Supervised By :mohammad ahmed 08/08/2023

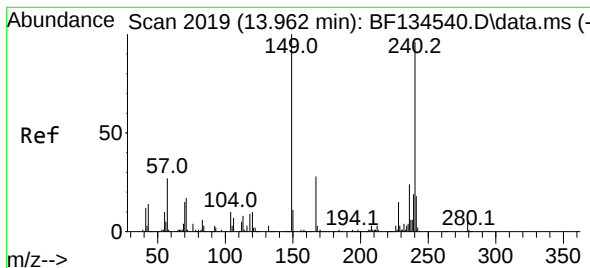


#75
 Fluoranthene
 Concen: 33.825 ng
 RT: 12.539 min Scan# 1777
 Delta R.T. -0.000 min
 Lab File: BF134659.D
 Acq: 07 Aug 2023 17:54



Tgt Ion:202 Resp: 877060
 Ion Ratio Lower Upper
 202 100
 101 11.7 0.0 28.5
 203 17.7 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.968 min Scan# 2019

Delta R.T. -0.006 min

Lab File: BF134659.D

Acq: 07 Aug 2023 17:54

Instrument :

BNA_F

ClientSampleId :

DUP-01

Tgt Ion:240 Resp: 380770

Ion Ratio Lower Upper

240 100

120 12.3 6.6 10.0

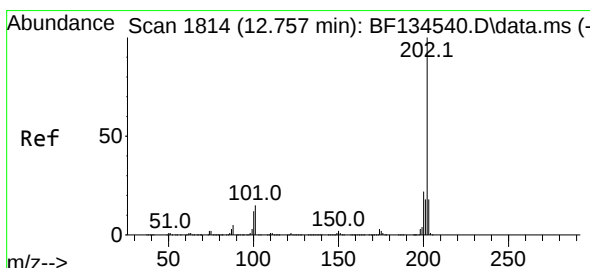
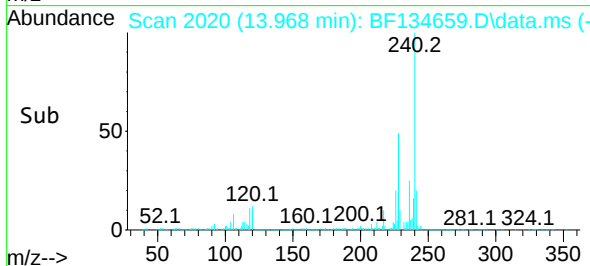
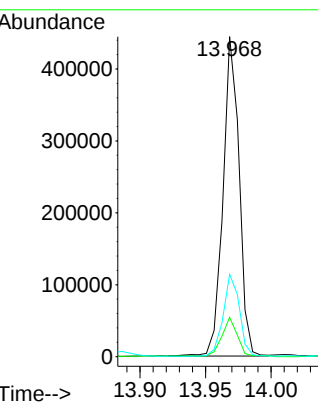
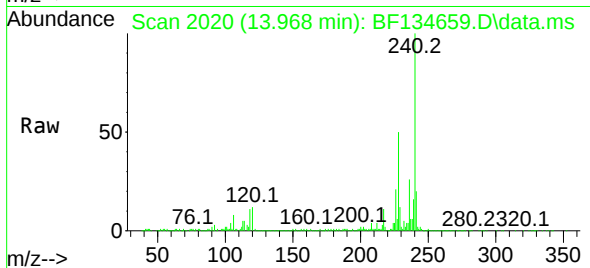
236 25.8 20.2 30.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/08/2023

Supervised By :mohammad ahmed 08/08/2023



#78

Pyrene

Concen: 45.365 ng

RT: 12.768 min Scan# 1816

Delta R.T. -0.000 min

Lab File: BF134659.D

Acq: 07 Aug 2023 17:54

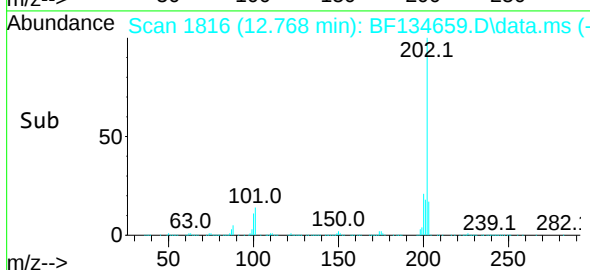
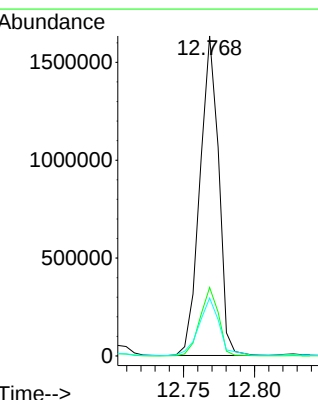
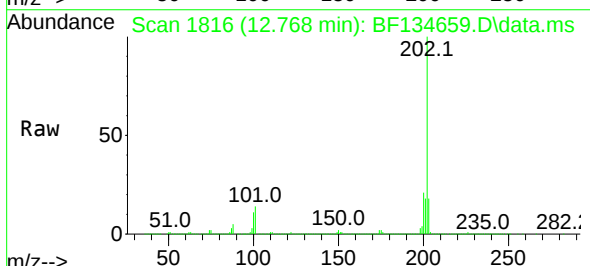
Tgt Ion:202 Resp: 1494743

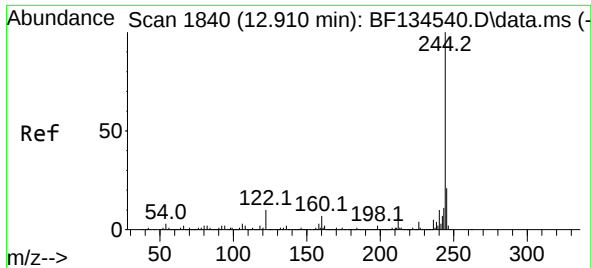
Ion Ratio Lower Upper

202 100

200 21.4 15.8 23.8

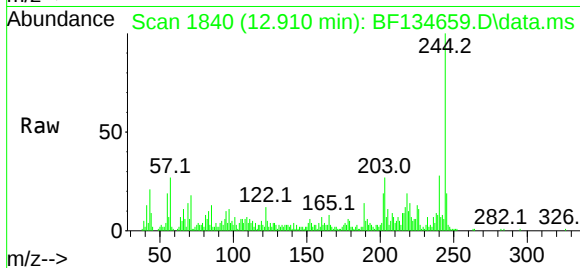
203 18.1 13.5 20.3





#79
 Terphenyl-d14
 Concen: 0.909 ng
 RT: 12.910 min Scan# 1840
 Delta R.T. -0.012 min
 Lab File: BF134659.D
 Acq: 07 Aug 2023 17:54

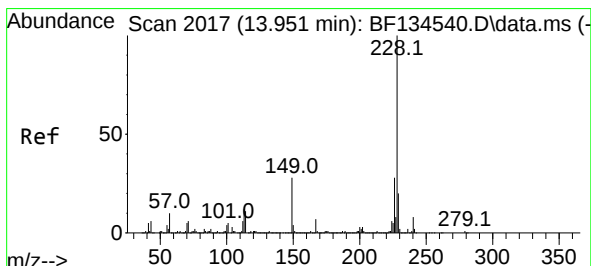
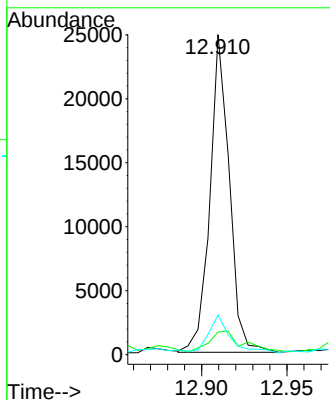
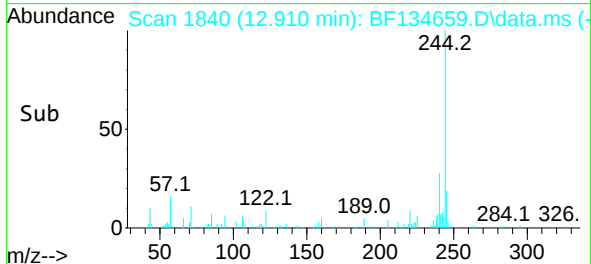
Instrument :
 BNA_F
 ClientSampleId :
 DUP-01



Tgt Ion:244 Resp: 19638
 Ion Ratio Lower Upper
 244 100
 212 7.0 5.6 8.4
 122 12.4 8.0 12.0

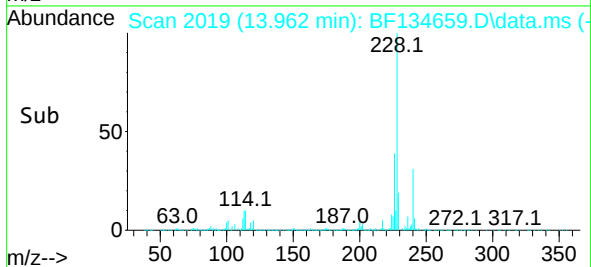
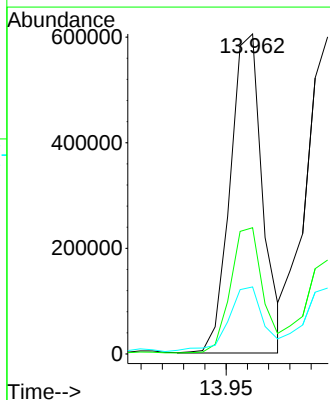
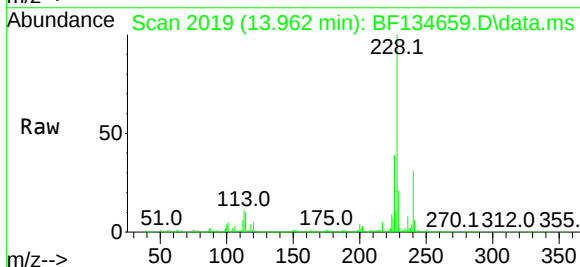
Manual Integrations
 APPROVED

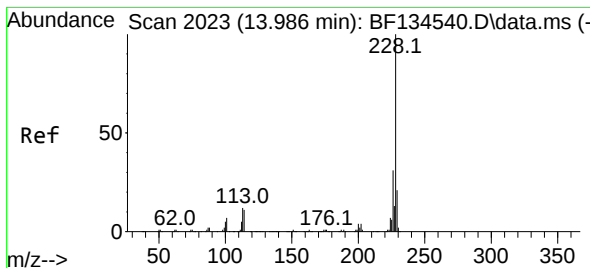
Reviewed By :Yogesh Patel 08/08/2023
 Supervised By :mohammad ahmed 08/08/2023



#81
 Benzo(a)anthracene
 Concen: 23.513 ng m
 RT: 13.962 min Scan# 2019
 Delta R.T. -0.000 min
 Lab File: BF134659.D
 Acq: 07 Aug 2023 17:54

Tgt Ion:228 Resp: 640206
 Ion Ratio Lower Upper
 228 100
 226 39.5 22.3 33.5#
 229 21.0 15.8 23.6





#83

Chrysene

Concen: 22.422 ng

RT: 13.998 min Scan# 20

Delta R.T. -0.000 min

Lab File: BF134659.D

Acq: 07 Aug 2023 17:54

Instrument :

BNA_F

ClientSampleId :

DUP-01

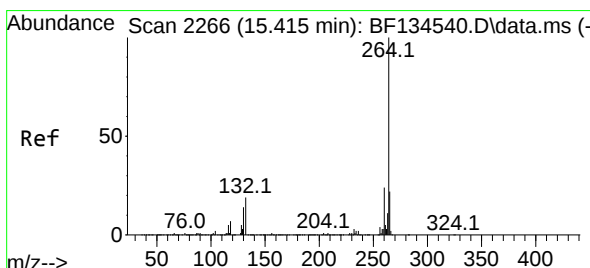
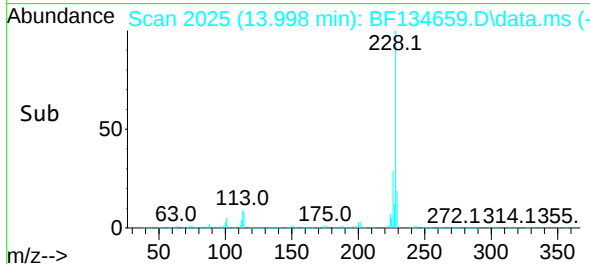
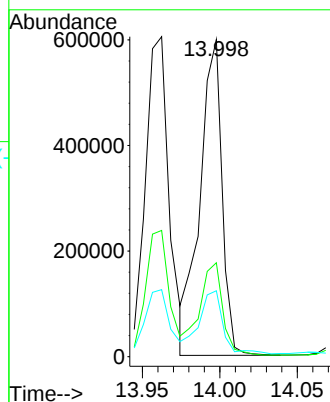
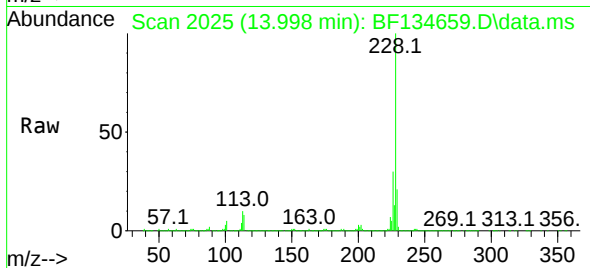
Tgt Ion:228 Resp: 594784
 Ion Ratio Lower Upper
 228 100
 226 29.6 24.5 36.7
 229 20.8 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/08/2023

Supervised By :mohammad ahmed 08/08/2023



#86

Perylene-d12

Concen: 20.000 ng

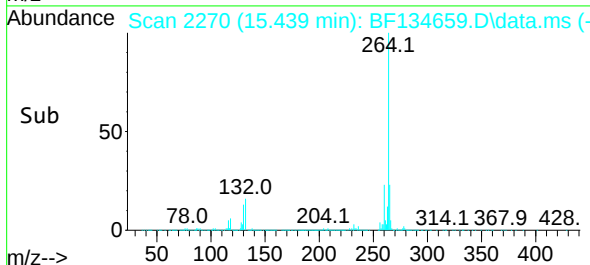
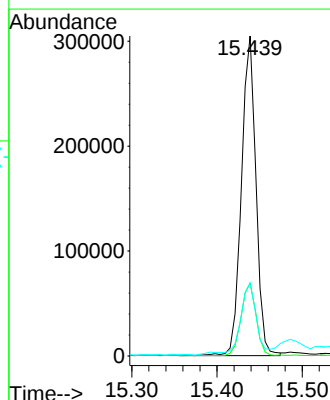
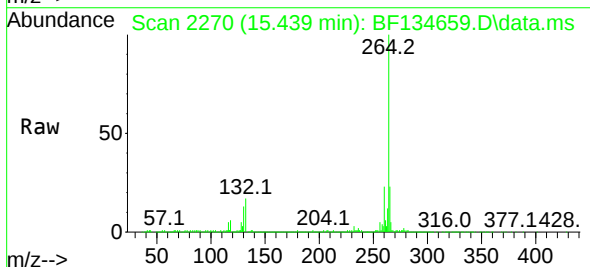
RT: 15.439 min Scan# 2270

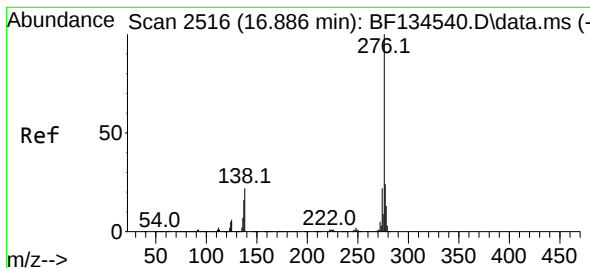
Delta R.T. -0.000 min

Lab File: BF134659.D

Acq: 07 Aug 2023 17:54

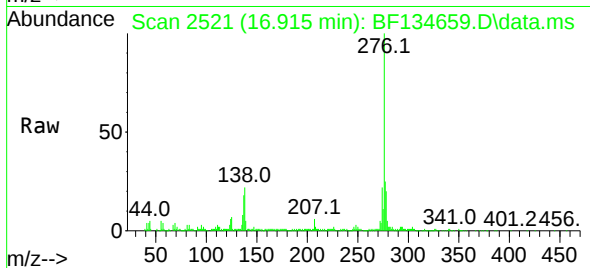
Tgt Ion:264 Resp: 361617
 Ion Ratio Lower Upper
 264 100
 260 22.8 18.4 27.6
 265 22.8 15.8 23.8





#87
Indeno(1,2,3-cd)pyrene
Concen: 6.165 ng
RT: 16.915 min Scan# 2197
Delta R.T. -0.012 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54

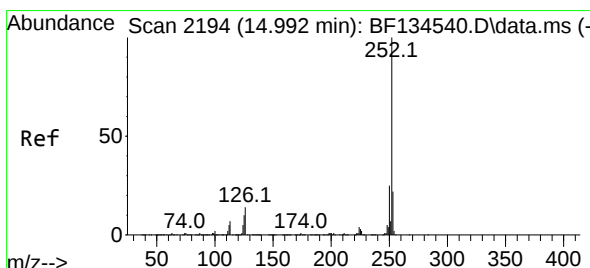
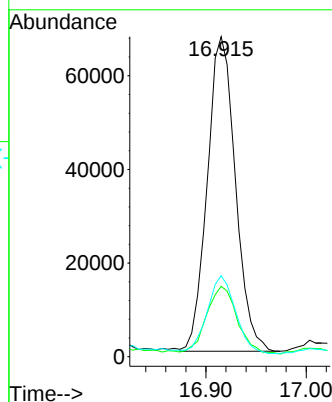
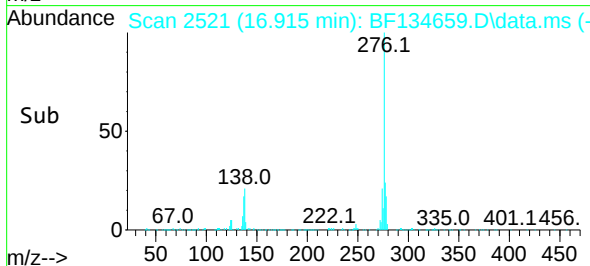
Instrument :
BNA_F
ClientSampleId :
DUP-01



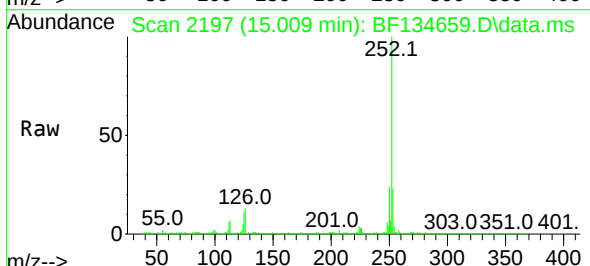
Tgt Ion:276 Resp: 131125
Ion Ratio Lower Upper
276 100
138 23.6 14.2 21.4
277 24.8 19.9 29.9

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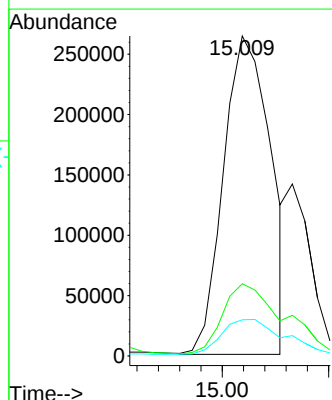
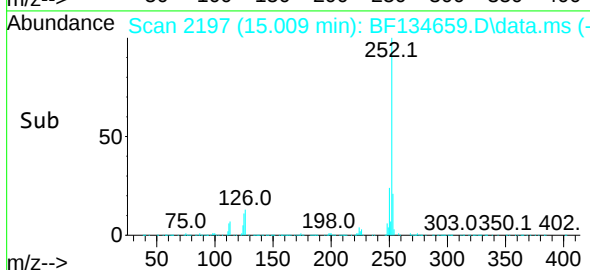
Reviewed By :Yogesh Patel 08/08/2023
Supervised By :mohammad ahmed 08/08/2023

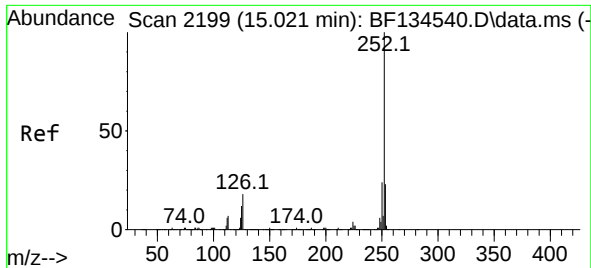


#88
Benzo(b)fluoranthene
Concen: 18.453 ng m
RT: 15.009 min Scan# 2197
Delta R.T. -0.000 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54



Tgt Ion:252 Resp: 406966
Ion Ratio Lower Upper
252 100
253 22.6 17.3 25.9
125 11.3 6.0 9.0





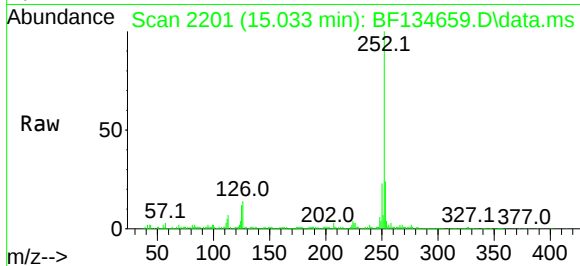
#89
Benzo(k)fluoranthene
Concen: 5.048 ng m
RT: 15.033 min Scan# 2199
Delta R.T. -0.006 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54

Instrument :

BNA_F

ClientSampleId :

DUP-01

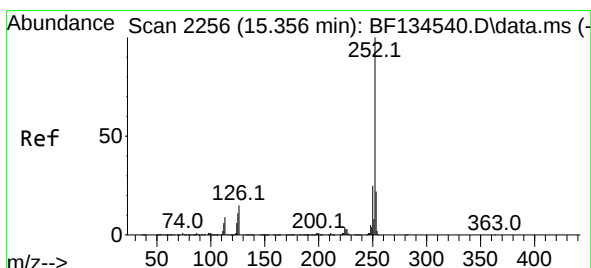
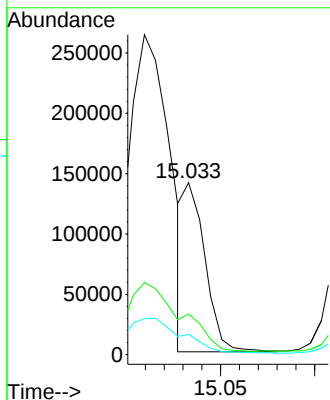
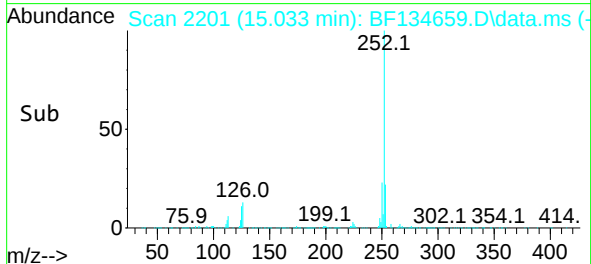


Tgt Ion:252 Resp: 110900
Ion Ratio Lower Upper
252 100
253 23.7 17.9 26.9
125 11.8 6.3 9.5

Manual Integrations

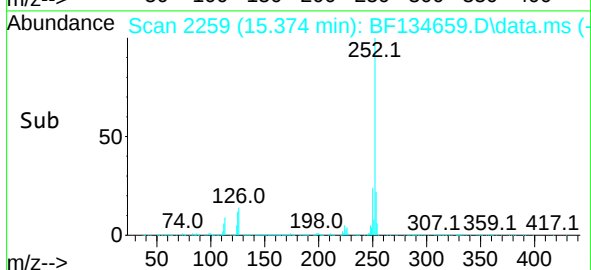
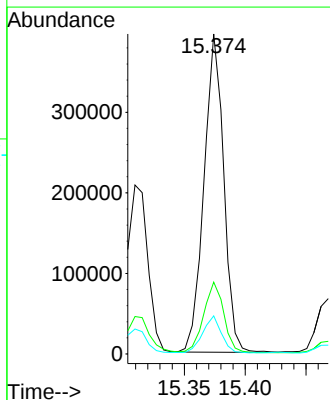
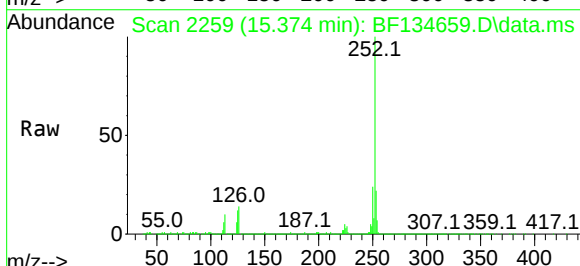
APPROVED

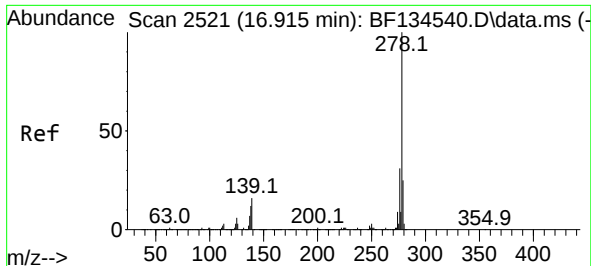
Reviewed By :Yogesh Patel 08/08/2023
Supervised By :mohammad ahmed 08/08/2023



#90
Benzo(a)pyrene
Concen: 21.707 ng
RT: 15.374 min Scan# 2259
Delta R.T. -0.006 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54

Tgt Ion:252 Resp: 446372
Ion Ratio Lower Upper
252 100
253 22.5 17.0 25.4
125 11.9 6.2 9.4





#91
Dibenzo(a,h)anthracene
Concen: 2.460 ng
RT: 16.933 min Scan# 21
Delta R.T. -0.018 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54

Instrument :

BNA_F

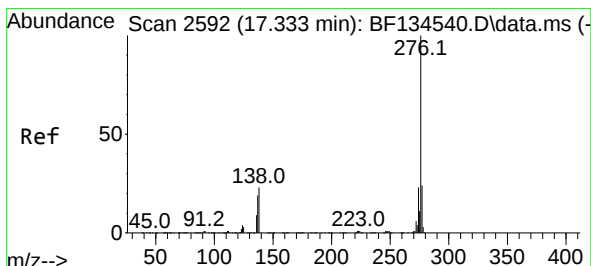
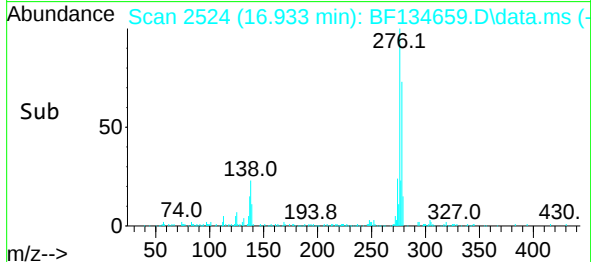
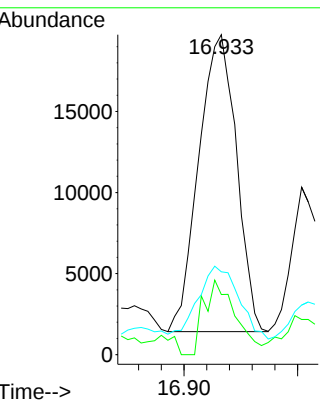
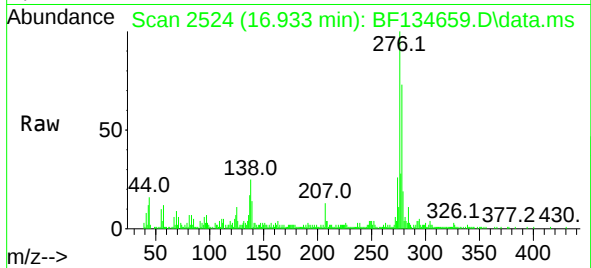
ClientSampleId :

DUP-01

Tgt Ion:278 Resp: 4228
Ion Ratio Lower Upper
278 100
139 18.8 10.0 15.0
279 25.9 19.7 29.5

Manual Integrations
APPROVED

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



#92
Benzo(g,h,i)perylene
Concen: 8.131 ng
RT: 17.362 min Scan# 2597
Delta R.T. -0.012 min
Lab File: BF134659.D
Acq: 07 Aug 2023 17:54

Tgt Ion:276 Resp: 142550
Ion Ratio Lower Upper
276 100
277 25.4 19.0 28.6
138 22.8 12.2 18.2

