

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081823\
 Data File : BF134858.D
 Acq On : 19 Aug 2023 00:48
 Operator : CG\JU
 Sample : 04075-02 10X
 Misc :
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB04-Z23-24

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/21/2023
 Supervised By :mohammad ahmed 08/21/2023

Quant Time: Aug 19 01:52:36 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	6.793	152	140409	20.000	ng	0.00
21) Naphthalene-d8	8.081	136	474620	20.000	ng	# 0.00
39) Acenaphthene-d10	9.828	164	220848	20.000	ng	0.00
64) Phenanthrene-d10	11.316	188	321164	20.000	ng	# 0.00
76) Chrysene-d12	13.969	240	295917	20.000	ng	# 0.00
86) Perylene-d12	15.433	264	212023	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.410	112	62321	6.747	ng	-0.02
7) Phenol-d6	6.422	99	80746	6.839	ng	-0.02
23) Nitrobenzene-d5	7.351	82	45416	5.980	ng	-0.02
42) 2,4,6-Tribromophenol	10.616	330	11669	5.183	ng	-0.01
45) 2-Fluorobiphenyl	9.145	172	86750	6.531	ng	-0.02
79) Terphenyl-d14	12.910	244	74070	4.413	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.122	128	7156229	300.007	ng	96
37) 2-Methylnaphthalene	8.798	142	2518475	159.286	ng	98
38) 1-Methylnaphthalene	8.898	142	1746715	118.804	ng	97
46) 1,1'-Biphenyl	9.251	154	524868	30.562	ng	99
49) Acenaphthylene	9.686	152	267356	13.217	ng	# 87
52) Acenaphthene	9.869	154	1132891	86.424	ng	99
55) Dibenzofuran	10.034	168	106972	5.733	ng	# 87
58) Fluorene	10.381	166	653701	48.094	ng	95
71) Phenanthrene	11.351	178	2080104	121.936	ng	100
72) Anthracene	11.398	178	701951	40.285	ng	99
75) Fluoranthene	12.539	202	996280	55.289	ng	98
78) Pyrene	12.769	202	1532366	59.844	ng	97
81) Benzo(a)anthracene	13.957	228	626029m	29.586	ng	
83) Chrysene	13.992	228	530945	25.755	ng	98
87) Indeno(1,2,3-cd)pyrene	16.915	276	100576	8.066	ng	# 94
88) Benzo(b)fluoranthene	15.010	252	310035m	23.976	ng	
89) Benzo(k)fluoranthene	15.033	252	89108m	6.918	ng	
90) Benzo(a)pyrene	15.374	252	329175	27.302	ng	# 97
91) Dibenzo(a,h)anthracene	16.933	278	26431	2.623	ng	94
92) Benzo(g,h,i)perylene	17.368	276	116937	11.376	ng	# 95

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

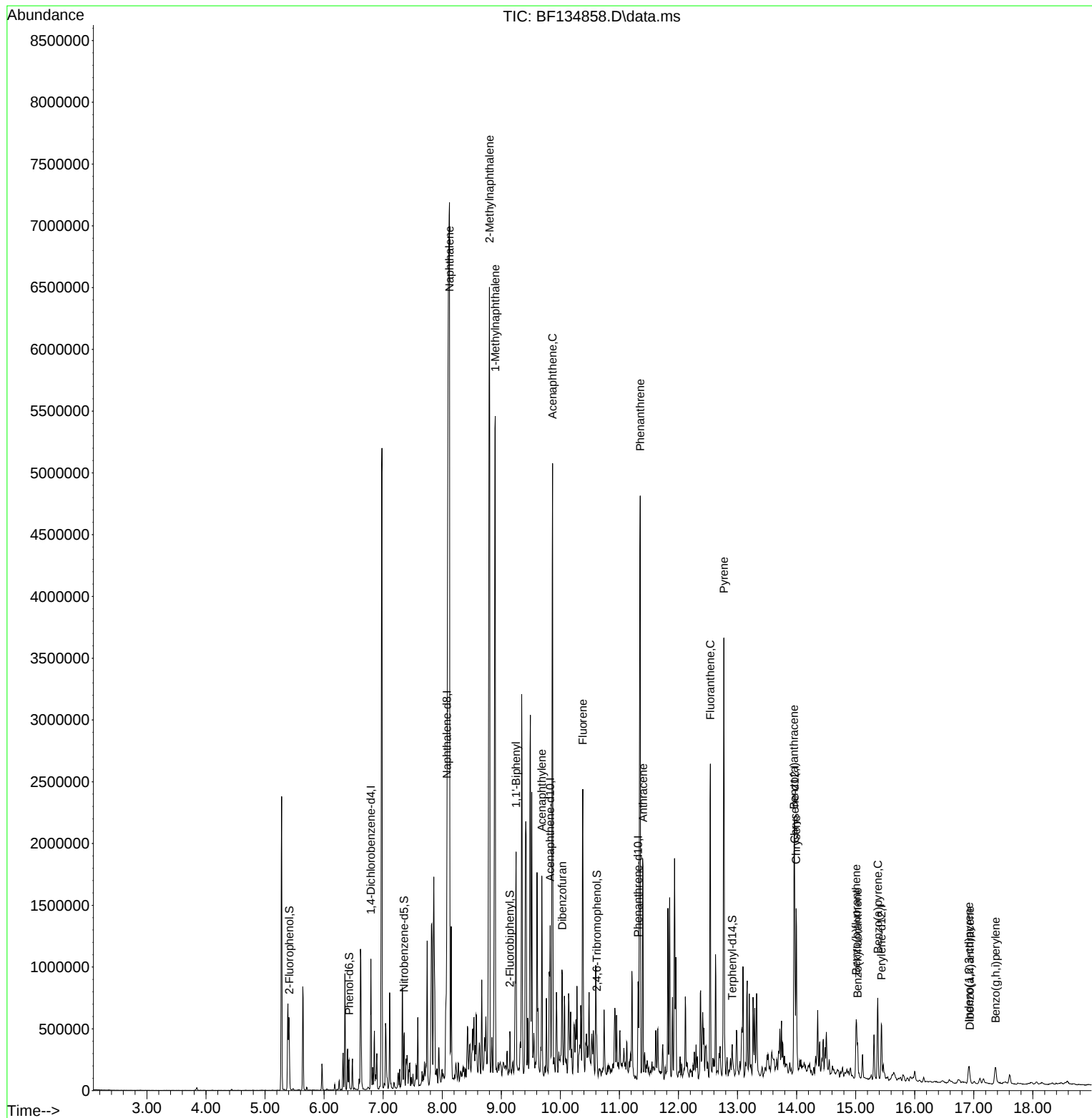
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF081823\
Data File : BF134858.D
Acq On : 19 Aug 2023 00:48
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Supervised By :mohammad ahmed 08/21/2023

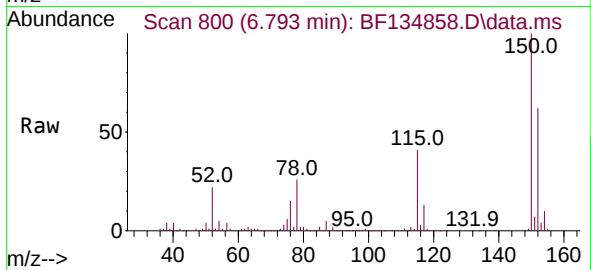
Quant Time: Aug 19 01:52:36 2023
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF080123.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Fri Aug 04 09:29:15 2023
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.793 min Scan# 800
Delta R.T. -0.005 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

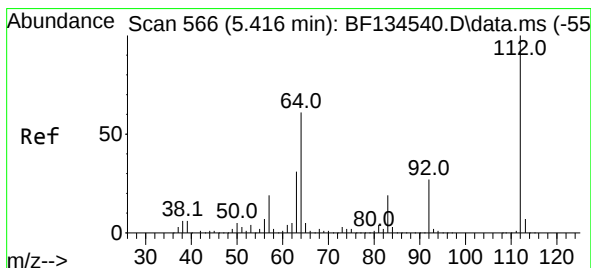
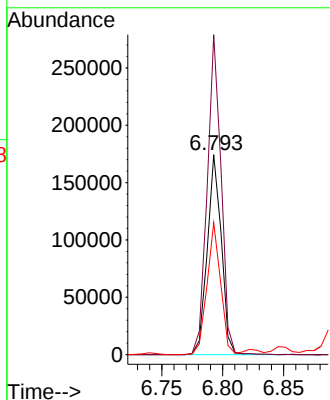
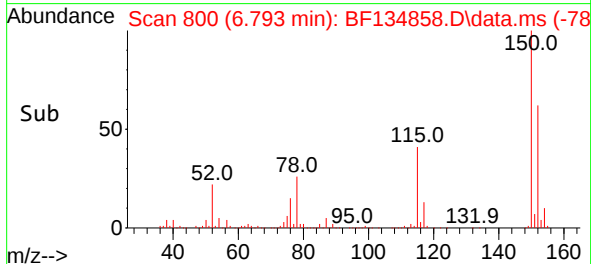
Instrument :
BNA_F
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NEVINS-SB04-Z23-24



Tgt Ion:152 Resp: 140409
Ion Ratio Lower Upper
152 100
150 160.0 128.3 192.5
115 65.9 52.4 78.6

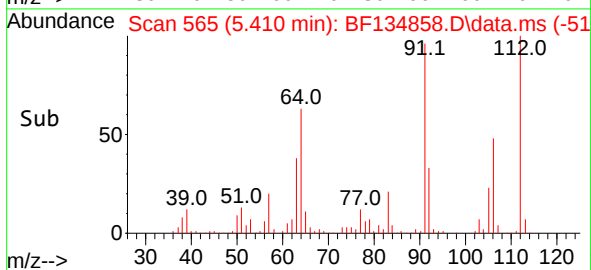
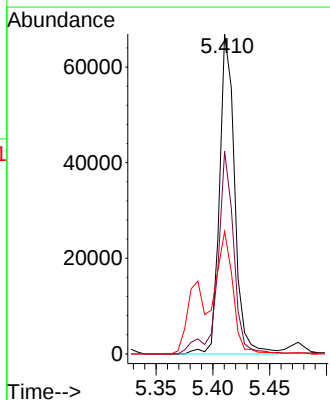
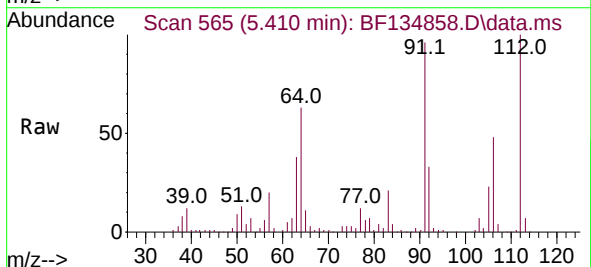
Manual Integrations
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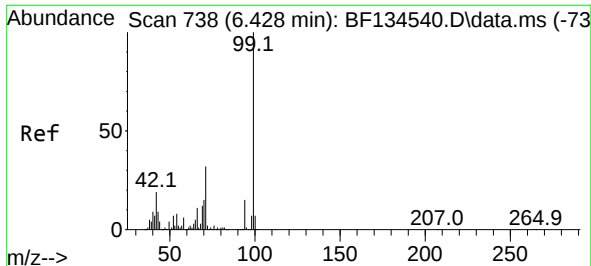
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023



#5
2-Fluorophenol
Concen: 6.747 ng
RT: 5.410 min Scan# 565
Delta R.T. -0.018 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

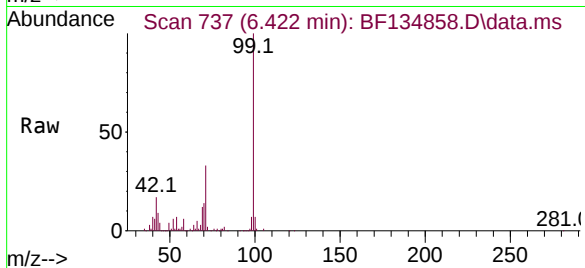
Tgt Ion:112 Resp: 62321
Ion Ratio Lower Upper
112 100
64 63.3 44.9 67.3
63 38.2 25.4 38.0#





#7
Phenol-d6
Concen: 6.839 ng
RT: 6.422 min Scan# 738
Delta R.T. -0.017 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

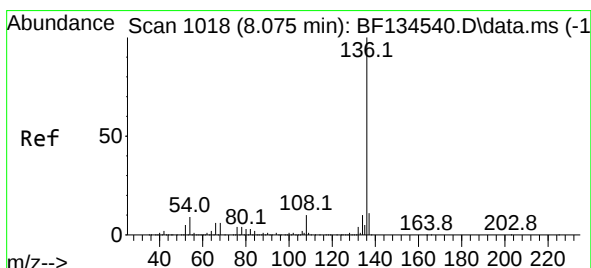
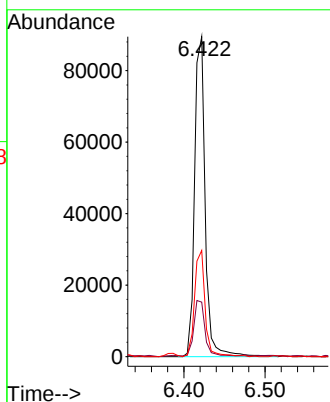
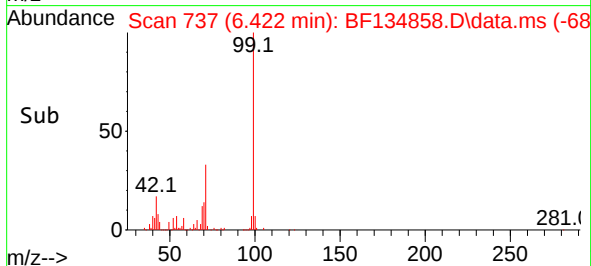
Instrument :
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NEVINS-SB04-Z23-24



Tgt Ion: 99 Resp: 80746
Ion Ratio Lower Upper
99 100
42 17.0 18.7 28.1#
71 33.2 36.4 54.6#

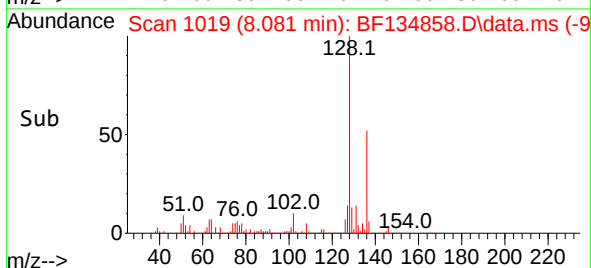
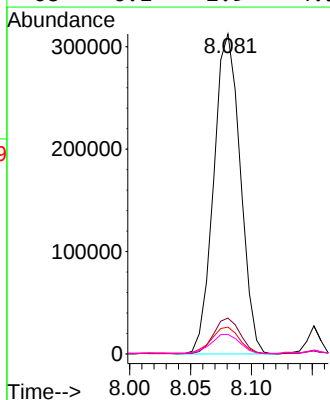
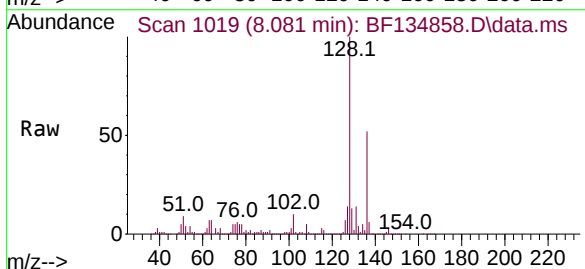
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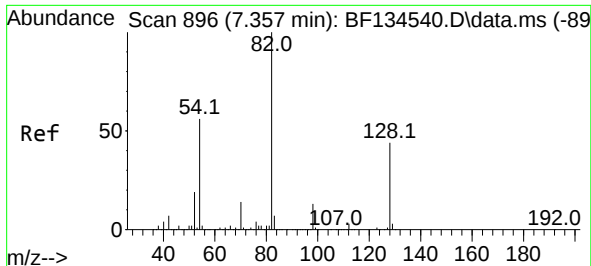
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.081 min Scan# 1019
Delta R.T. 0.000 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

Tgt Ion:136 Resp: 474620
Ion Ratio Lower Upper
136 100
137 11.2 8.4 12.6
54 8.4 5.2 7.8#
68 6.1 2.9 4.3#





#23

Nitrobenzene-d5

Concen: 5.980 ng

RT: 7.351 min Scan# 89

Delta R.T. -0.018 min

Lab File: BF134858.D

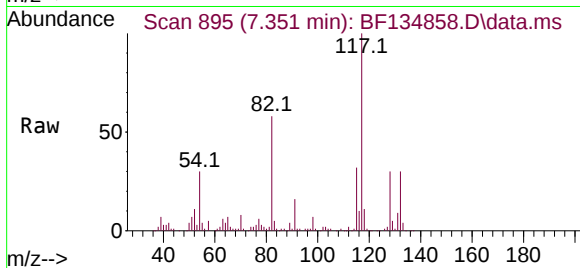
Acq: 19 Aug 2023 00:48

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z23-24



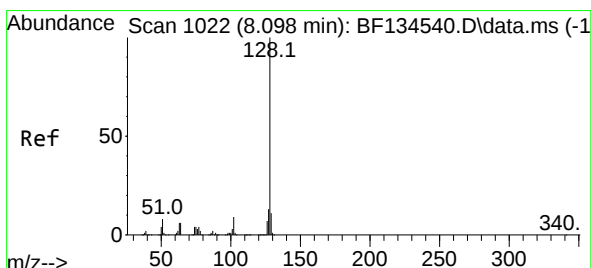
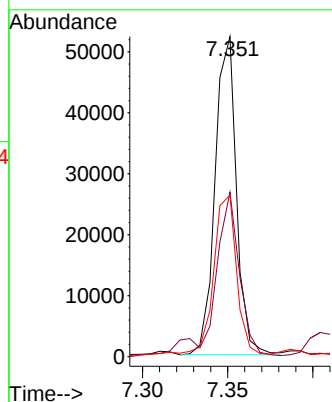
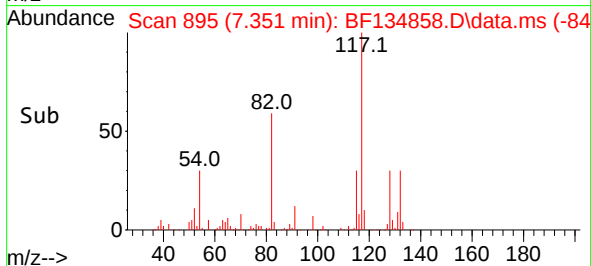
Tgt Ion:	82	Resp:	45416
Ion Ratio	Lower	Upper	
82	100		
128	51.4	34.3	51.5
54	50.5	43.8	65.6

Manual Integrations

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#31

Naphthalene

Concen: 300.007 ng

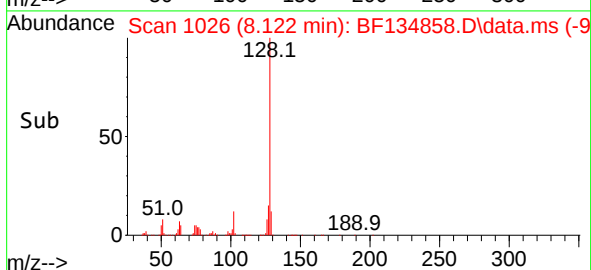
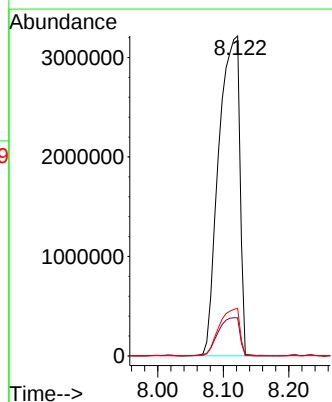
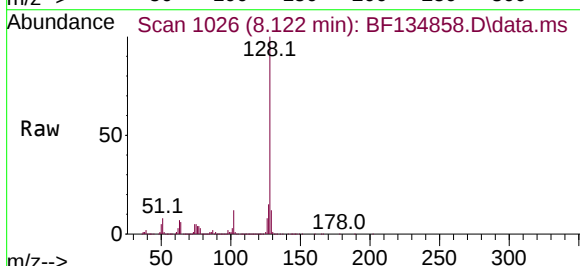
RT: 8.122 min Scan# 1026

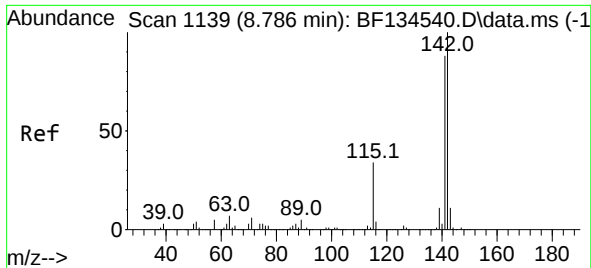
Delta R.T. 0.018 min

Lab File: BF134858.D

Acq: 19 Aug 2023 00:48

Tgt Ion:	128	Resp:	7156229
Ion Ratio	Lower	Upper	
128	100		
129	11.9	8.4	12.6
127	14.8	10.7	16.1





#37

2-Methylnaphthalene

Concen: 159.286 ng

RT: 8.798 min Scan# 1141

Delta R.T. 0.006 min

Lab File: BF134858.D

Acq: 19 Aug 2023 00:48

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z23-24

Tgt Ion:142 Resp: 2518475

Ion Ratio Lower Upper

142 100

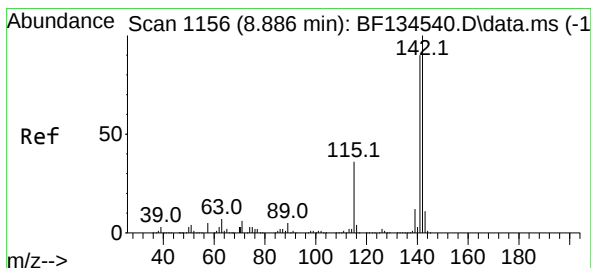
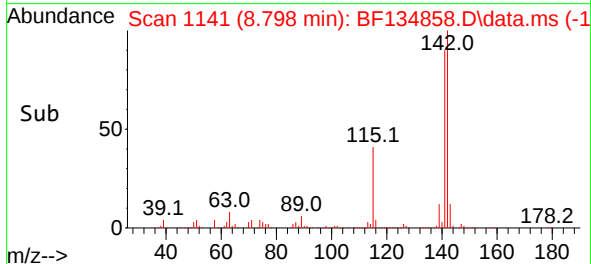
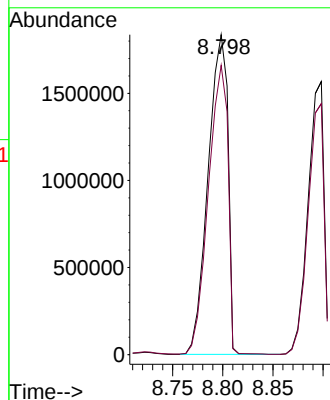
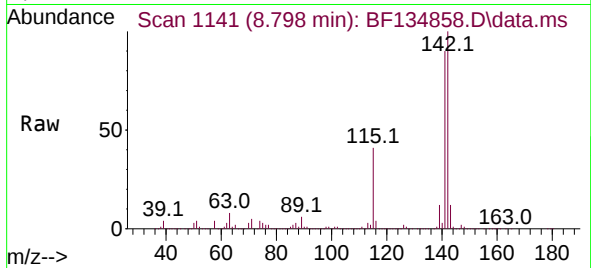
141 90.4 70.8 106.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2023

Supervised By :mohammad ahmed 08/21/2023



#38

1-Methylnaphthalene

Concen: 118.804 ng

RT: 8.898 min Scan# 1158

Delta R.T. 0.006 min

Lab File: BF134858.D

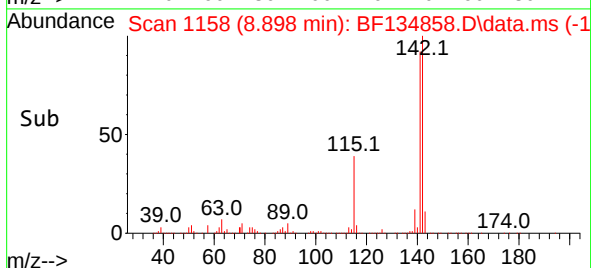
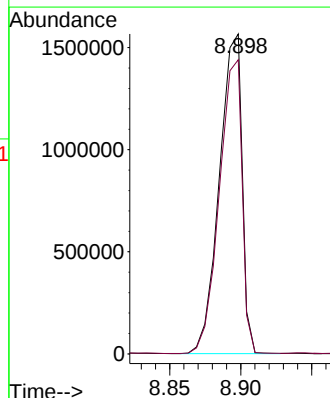
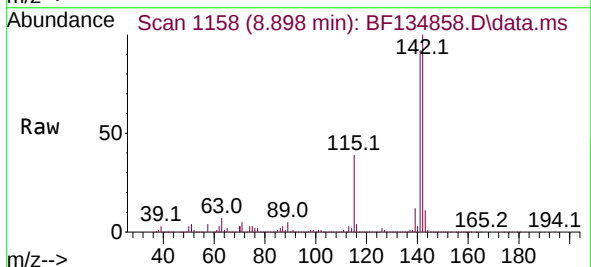
Acq: 19 Aug 2023 00:48

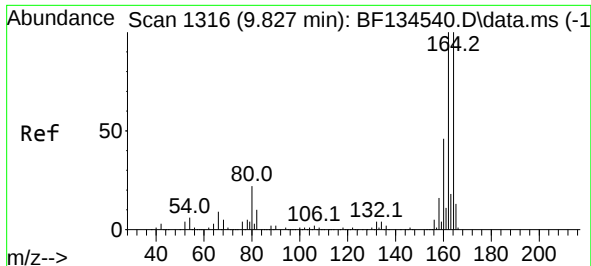
Tgt Ion:142 Resp: 1746715

Ion Ratio Lower Upper

142 100

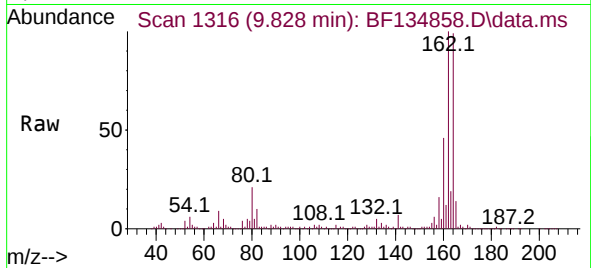
141 91.9 71.4 107.2





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.828 min Scan# 1316
Delta R.T. -0.006 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

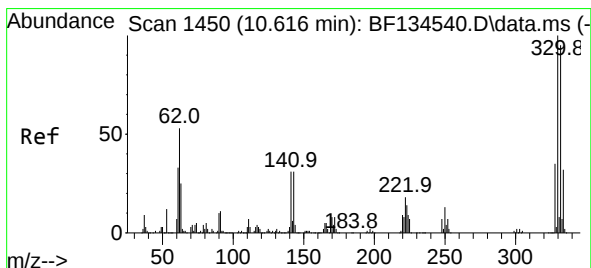
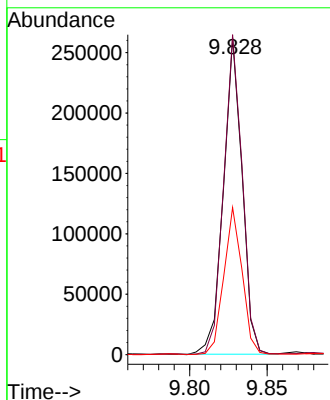
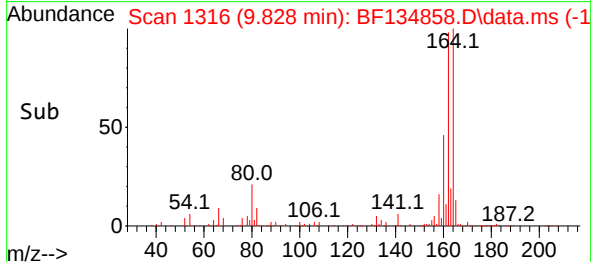
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z23-24



Tgt Ion:164 Resp: 220848
Ion Ratio Lower Upper
164 100
162 101.0 82.6 123.8
160 46.4 37.2 55.8

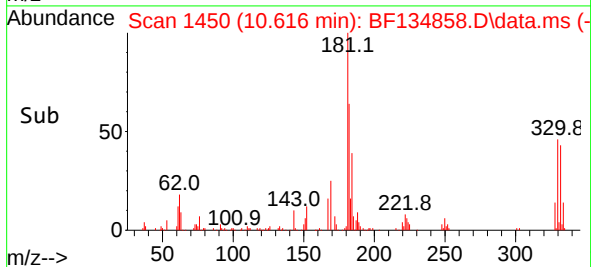
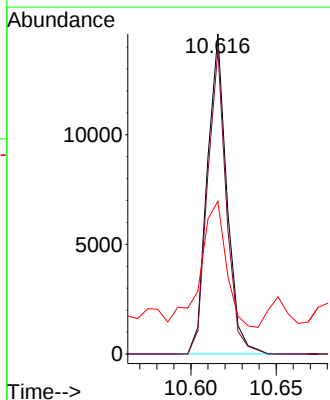
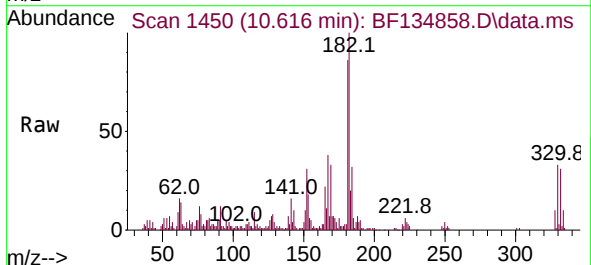
Manual Integrations
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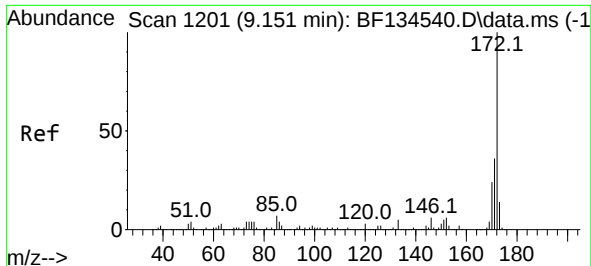
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023



#42
2,4,6-Tribromophenol
Concen: 5.183 ng
RT: 10.616 min Scan# 1450
Delta R.T. -0.012 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

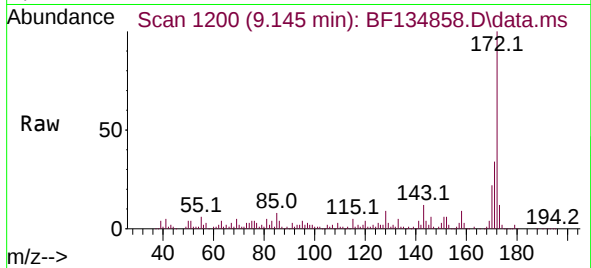
Tgt Ion:330 Resp: 11669
Ion Ratio Lower Upper
330 100
332 91.8 78.8 118.2
141 51.5 25.4 38.2#





#45
2-Fluorobiphenyl
Concen: 6.531 ng
RT: 9.145 min Scan# 1200
Delta R.T. -0.018 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

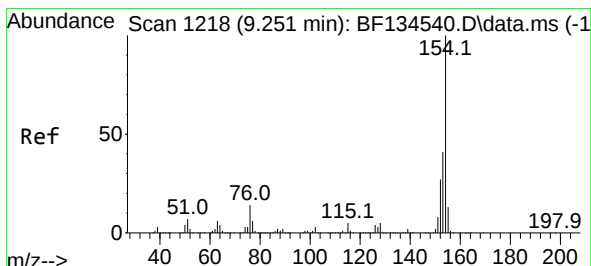
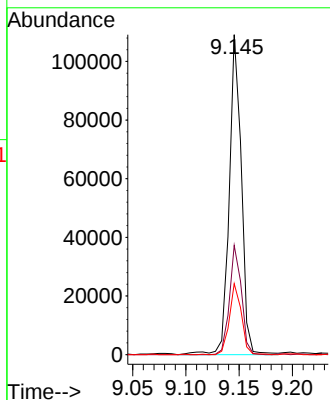
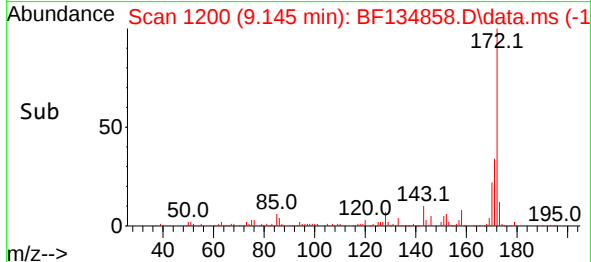
Instrument :
BNA_F
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NEVINS-SB04-Z23-24



Tgt Ion:172 Resp: 86750
Ion Ratio Lower Upper
172 100
171 34.1 28.8 43.2
170 22.2 18.7 28.1

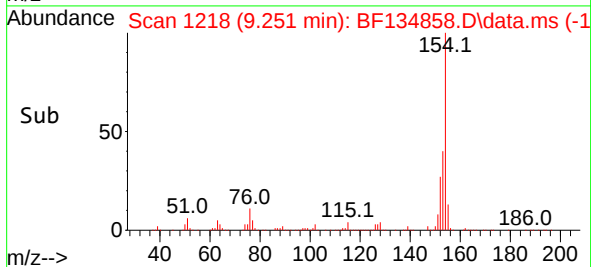
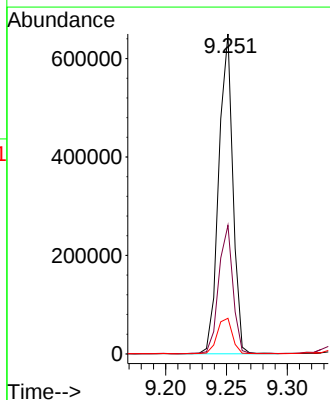
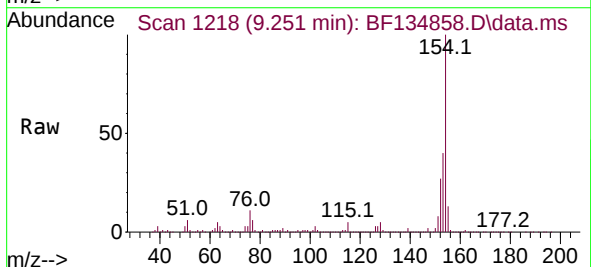
Manual Integrations
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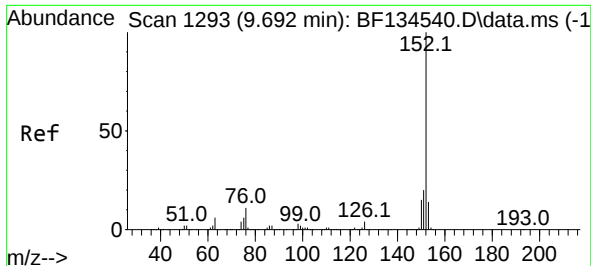
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023



#46
1,1'-Biphenyl
Concen: 30.562 ng
RT: 9.251 min Scan# 1218
Delta R.T. -0.012 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

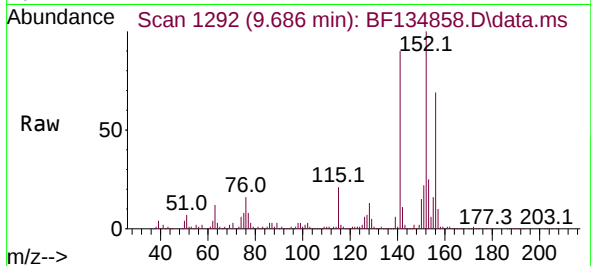
Tgt Ion:154 Resp: 524868
Ion Ratio Lower Upper
154 100
153 40.2 20.8 60.8
76 11.1 0.0 30.2





#49
Acenaphthylene
Concen: 13.217 ng
RT: 9.686 min Scan# 1292
Delta R.T. -0.012 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

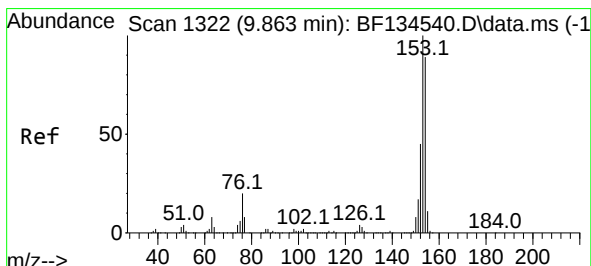
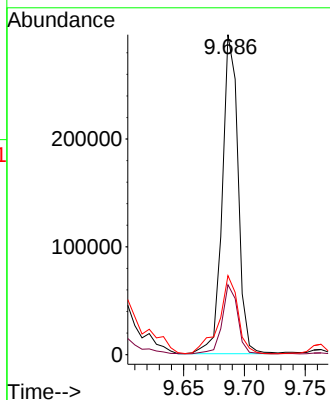
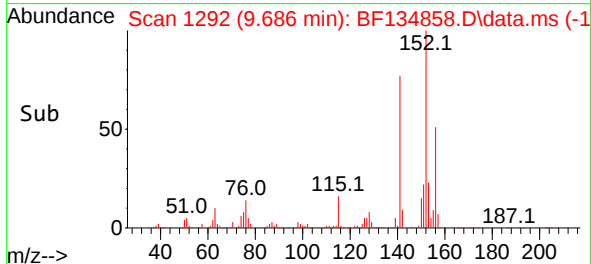
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z23-24



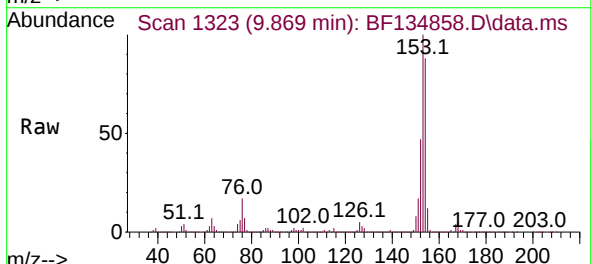
Tgt Ion:152 Resp: 267356
Ion Ratio Lower Upper
152 100
151 21.8 16.4 24.6
153 24.7 10.9 16.3

Manual Integrations
APPROVED

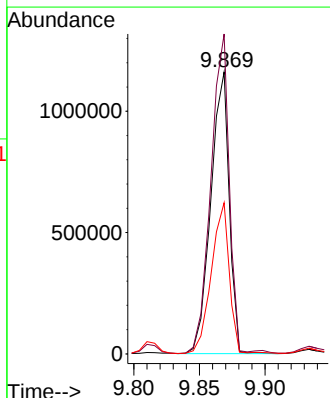
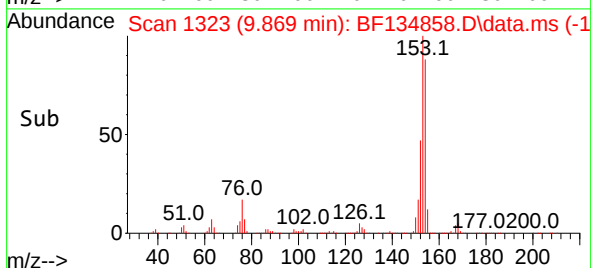
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023

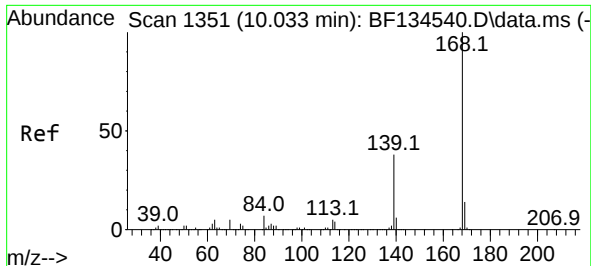


#52
Acenaphthene
Concen: 86.424 ng
RT: 9.869 min Scan# 1323
Delta R.T. -0.006 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48



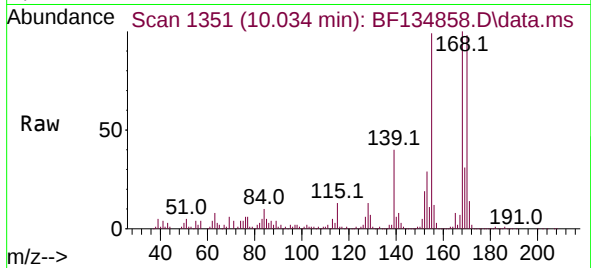
Tgt Ion:154 Resp: 1132891
Ion Ratio Lower Upper
154 100
153 113.5 90.0 135.0
152 53.6 42.4 63.6





#55
Dibenzofuran
Concen: 5.733 ng
RT: 10.034 min Scan# 1351
Delta R.T. -0.012 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

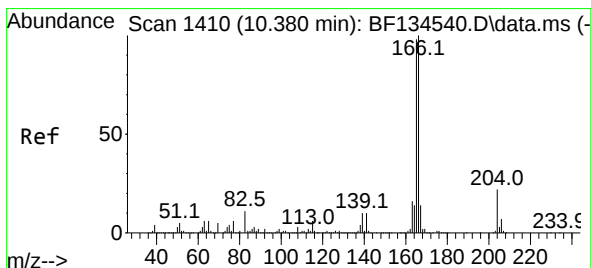
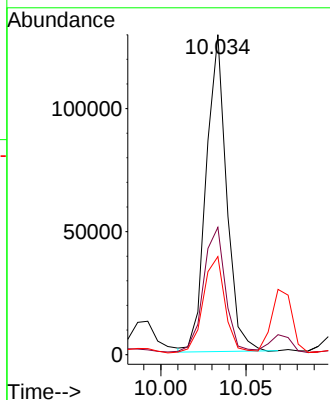
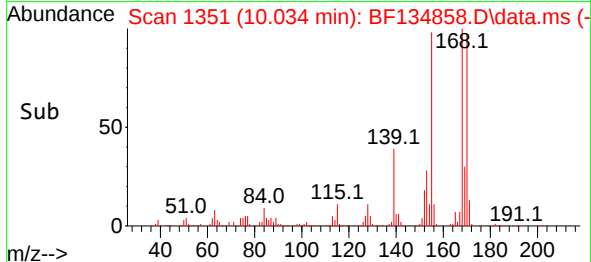
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z23-24



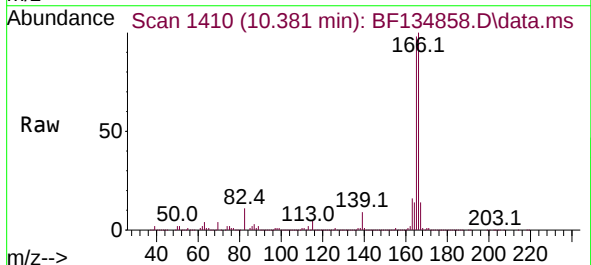
Tgt Ion:168 Resp: 106972
Ion Ratio Lower Upper
168 100
139 39.8 33.4 50.2
169 30.6 10.6 15.8

Manual Integrations
APPROVED

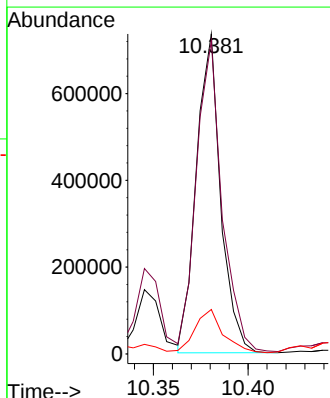
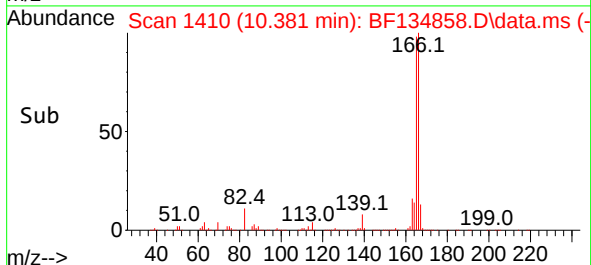
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023

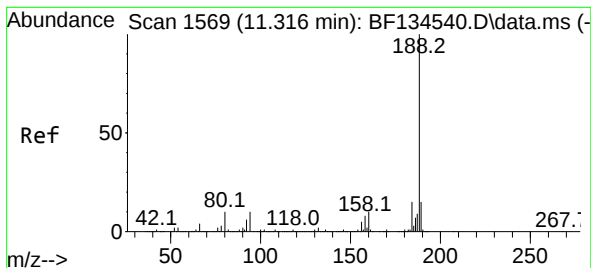


#58
Fluorene
Concen: 48.094 ng
RT: 10.381 min Scan# 1410
Delta R.T. -0.006 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48



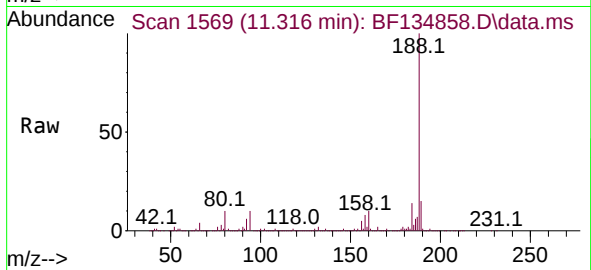
Tgt Ion:166 Resp: 653701
Ion Ratio Lower Upper
166 100
165 97.9 74.5 111.7
167 13.9 10.6 16.0





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.316 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

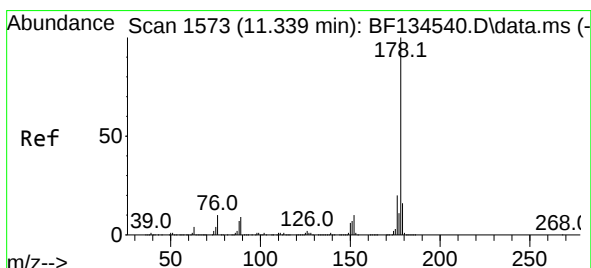
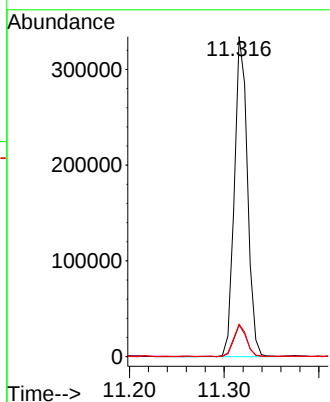
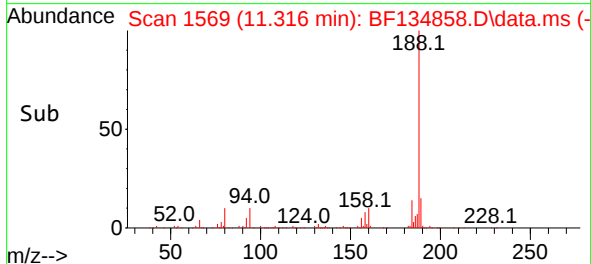
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z23-24



Tgt Ion:188 Resp: 321164
Ion Ratio Lower Upper
188 100
94 9.8 5.1 7.7
80 10.2 6.6 9.8

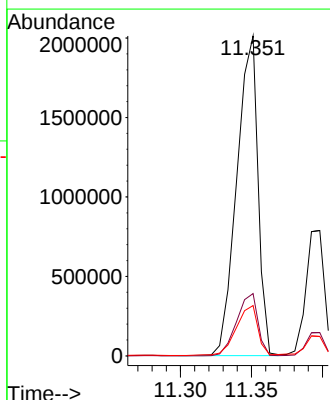
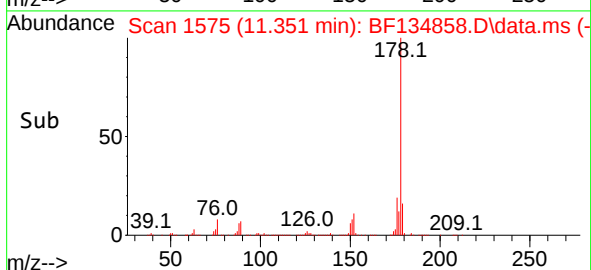
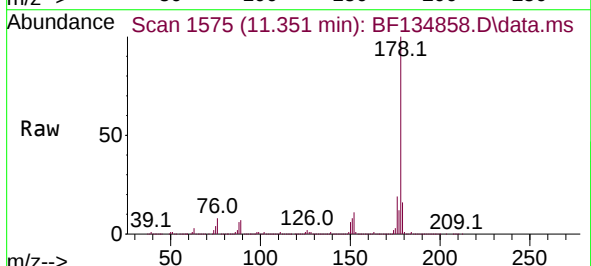
Manual Integrations
APPROVED

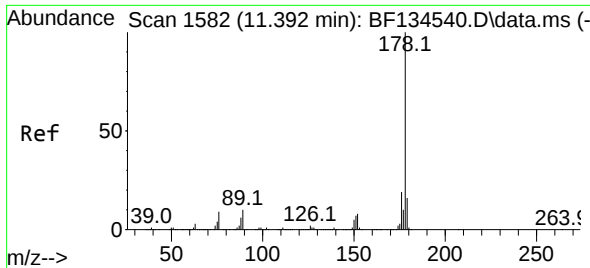
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023



#71
Phenanthrene
Concen: 121.936 ng
RT: 11.351 min Scan# 1575
Delta R.T. 0.000 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

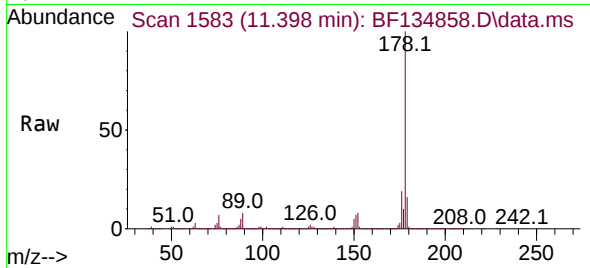
Tgt Ion:178 Resp: 2080104
Ion Ratio Lower Upper
178 100
176 19.5 15.8 23.6
179 15.7 12.7 19.1





#72
 Anthracene
 Concen: 40.285 ng
 RT: 11.398 min Scan# 1582
 Delta R.T. -0.006 min
 Lab File: BF134858.D
 Acq: 19 Aug 2023 00:48

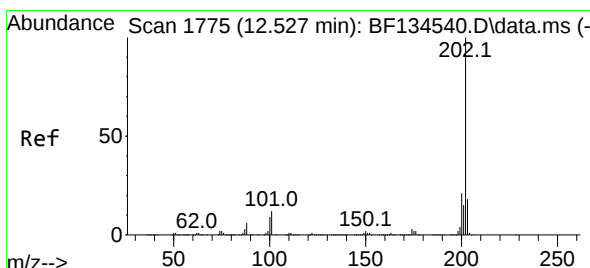
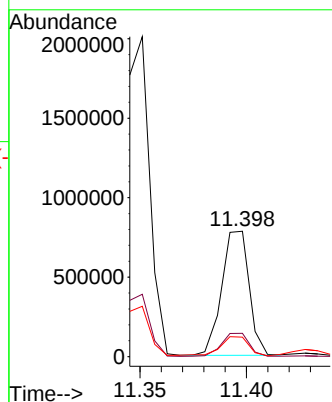
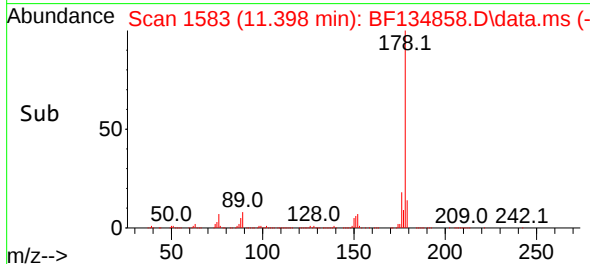
Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB04-Z23-24



Tgt Ion:178 Resp: 701953
 Ion Ratio Lower Upper
 178 100
 176 18.6 14.6 21.8
 179 15.5 12.3 18.5

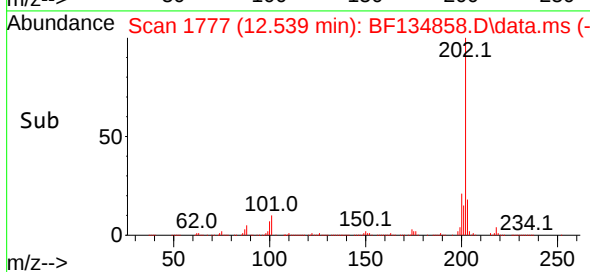
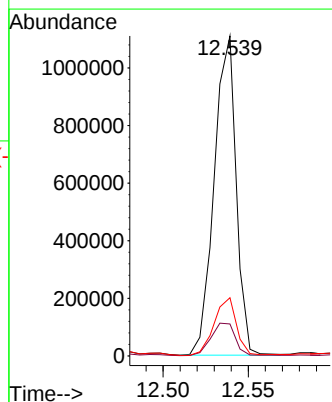
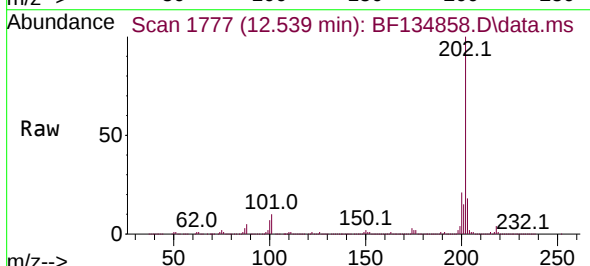
Manual Integrations
 APPROVED

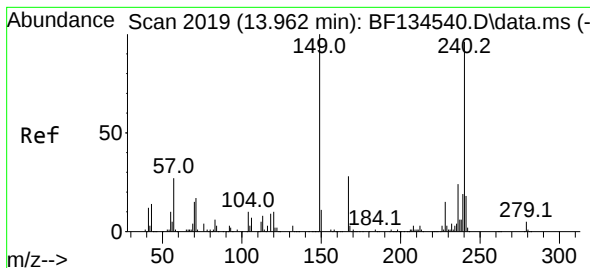
Reviewed By :Yogesh Patel 08/21/2023
 Supervised By :mohammad ahmed 08/21/2023



#75
 Fluoranthene
 Concen: 55.289 ng
 RT: 12.539 min Scan# 1777
 Delta R.T. 0.000 min
 Lab File: BF134858.D
 Acq: 19 Aug 2023 00:48

Tgt Ion:202 Resp: 996280
 Ion Ratio Lower Upper
 202 100
 101 10.0 0.0 28.5
 203 18.2 0.0 37.5





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.969 min Scan# 2019

Delta R.T. -0.006 min

Lab File: BF134858.D

Acq: 19 Aug 2023 00:48

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z23-24

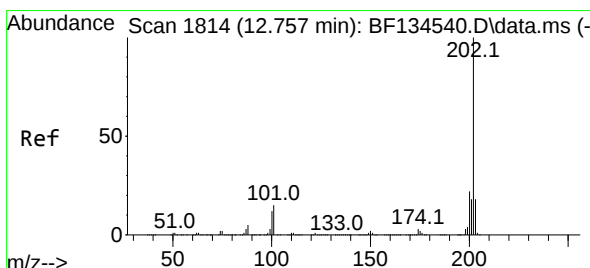
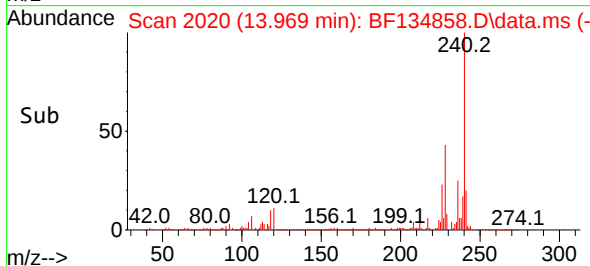
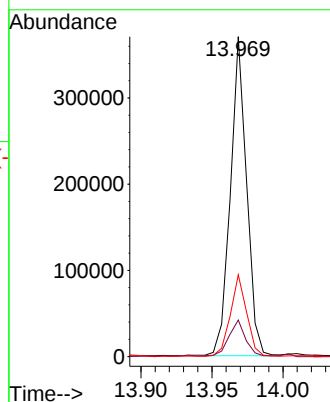
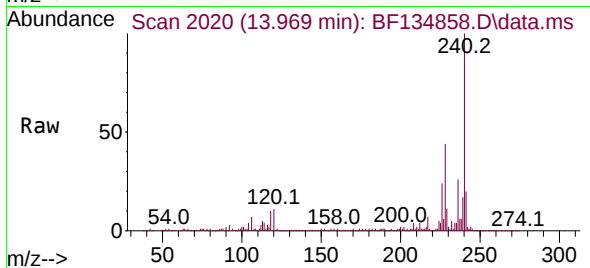
Tgt Ion:240 Resp: 295917
 Ion Ratio Lower Upper
 240 100
 120 11.4 6.6 10.0
 236 25.6 20.2 30.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2023

Supervised By :mohammad ahmed 08/21/2023



#78

Pyrene

Concen: 59.844 ng

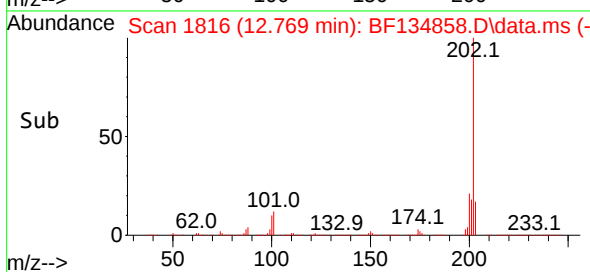
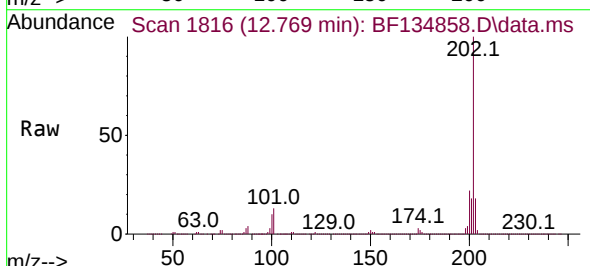
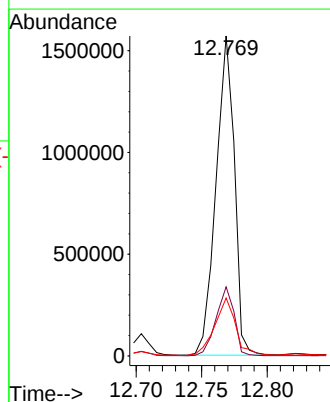
RT: 12.769 min Scan# 1816

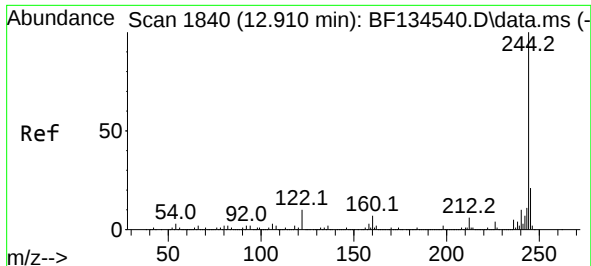
Delta R.T. 0.000 min

Lab File: BF134858.D

Acq: 19 Aug 2023 00:48

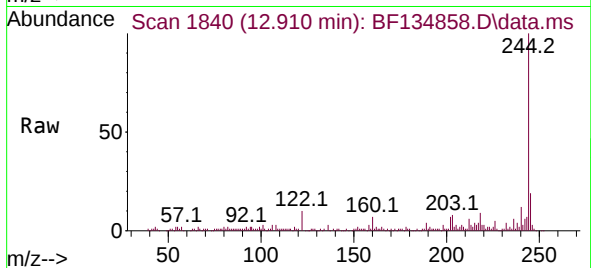
Tgt Ion:202 Resp: 1532366
 Ion Ratio Lower Upper
 202 100
 200 21.6 15.8 23.8
 203 18.1 13.5 20.3





#79
 Terphenyl-d14
 Concen: 4.413 ng
 RT: 12.910 min Scan# 1840
 Delta R.T. -0.012 min
 Lab File: BF134858.D
 Acq: 19 Aug 2023 00:48

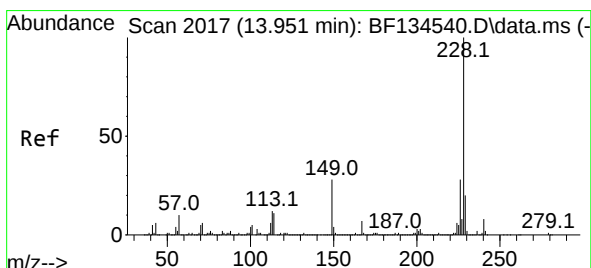
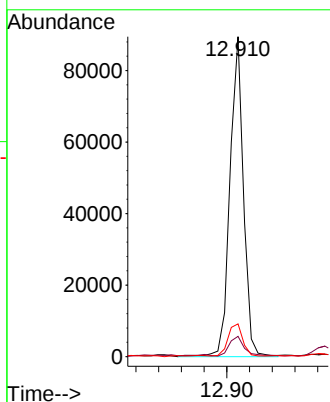
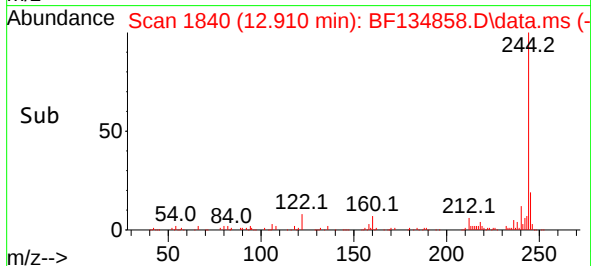
Instrument :
 BNA_F
 ClientSampleId :
 NEVINS-SB04-Z23-24



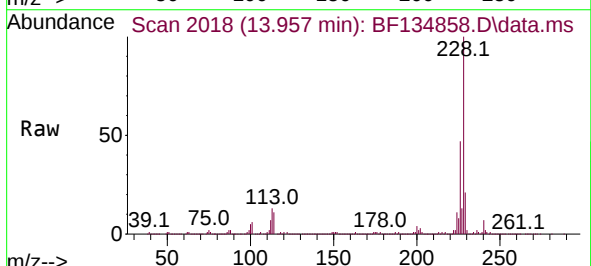
Tgt Ion:244 Resp: 74076
 Ion Ratio Lower Upper
 244 100
 212 6.3 5.6 8.4
 122 10.2 8.0 12.0

Manual Integrations
 APPROVED

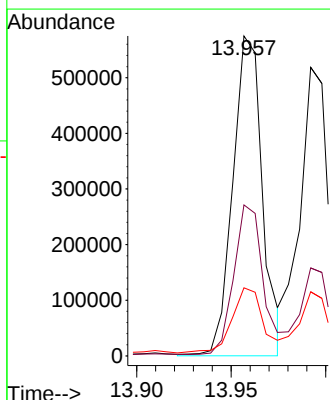
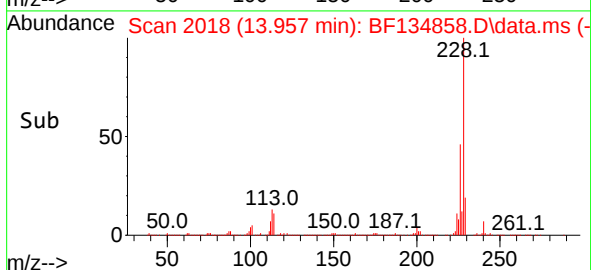
Reviewed By :Yogesh Patel 08/21/2023
 Supervised By :mohammad ahmed 08/21/2023

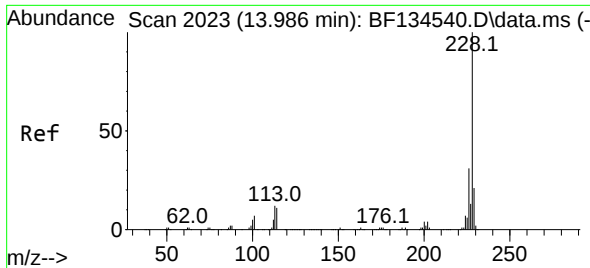


#81
 Benzo(a)anthracene
 Concen: 29.586 ng m
 RT: 13.957 min Scan# 2018
 Delta R.T. -0.006 min
 Lab File: BF134858.D
 Acq: 19 Aug 2023 00:48



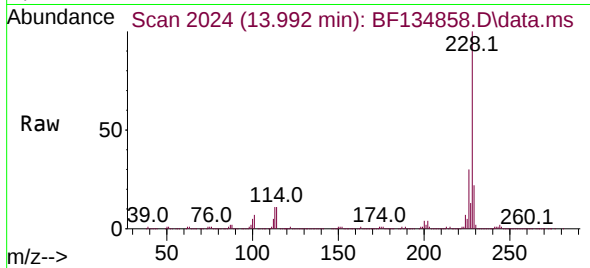
Tgt Ion:228 Resp: 626029
 Ion Ratio Lower Upper
 228 100
 226 47.2 22.3 33.5#
 229 21.3 15.8 23.6





#83
Chrysene
Concen: 25.755 ng
RT: 13.992 min Scan# 2024
Delta R.T. -0.006 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

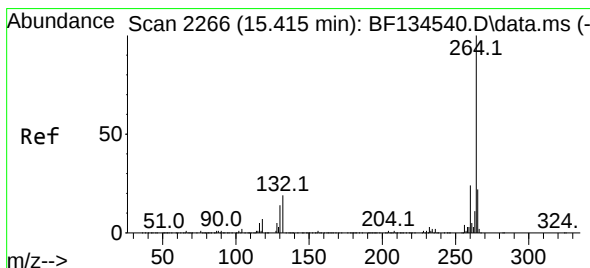
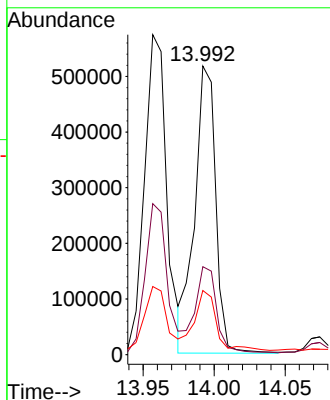
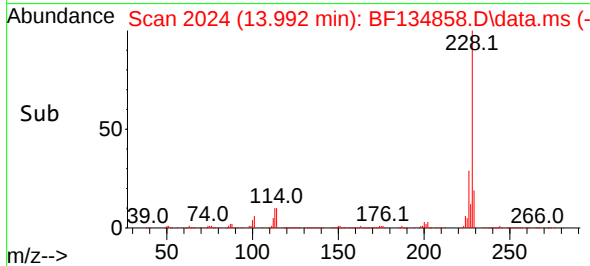
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z23-24



Tgt Ion:228 Resp: 530945
Ion Ratio Lower Upper
228 100
226 30.5 24.5 36.7
229 22.2 15.8 23.8

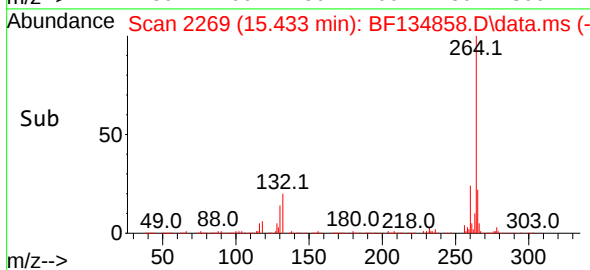
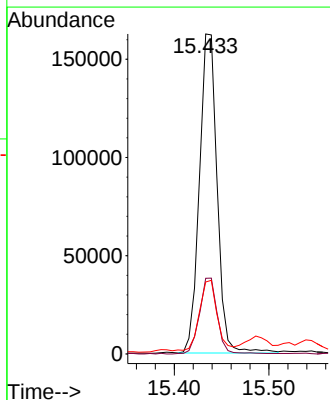
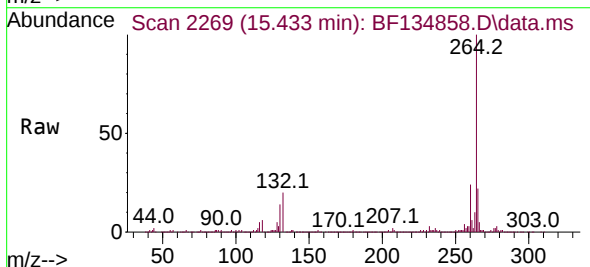
Manual Integrations
APPROVED

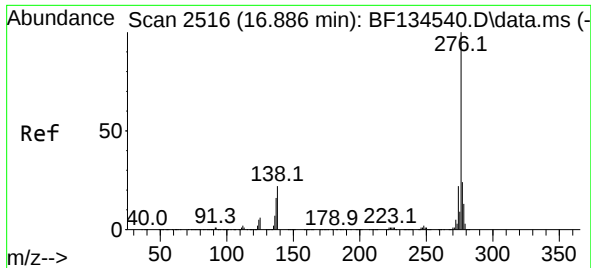
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.433 min Scan# 2269
Delta R.T. -0.006 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

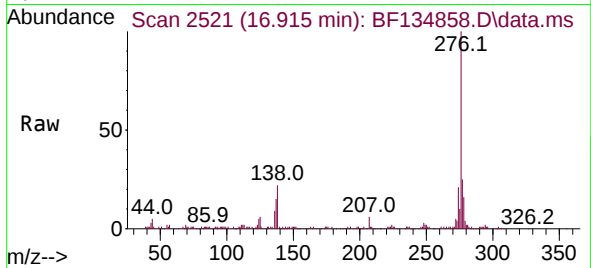
Tgt Ion:264 Resp: 212023
Ion Ratio Lower Upper
264 100
260 23.6 18.4 27.6
265 22.5 15.8 23.8





#87
Indeno(1,2,3-cd)pyrene
Concen: 8.066 ng
RT: 16.915 min Scan# 2197
Delta R.T. -0.012 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

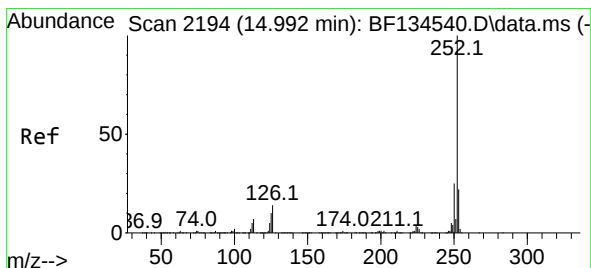
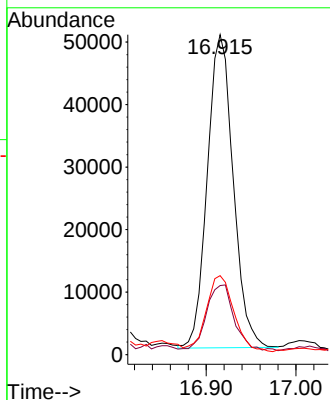
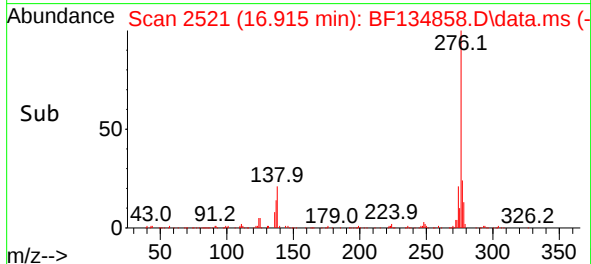
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z23-24



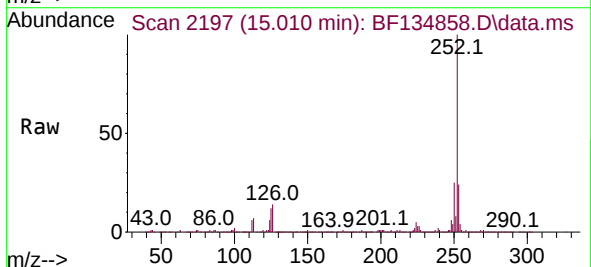
Tgt Ion: 276 Resp: 100576
Ion Ratio Lower Upper
276 100
138 22.6 14.2 21.4
277 25.9 19.9 29.9

Manual Integrations
APPROVED

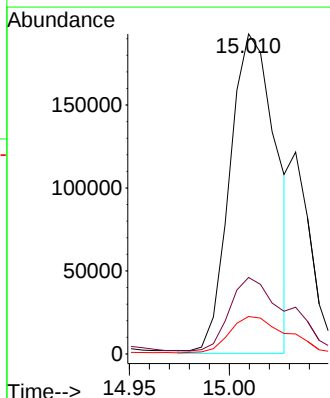
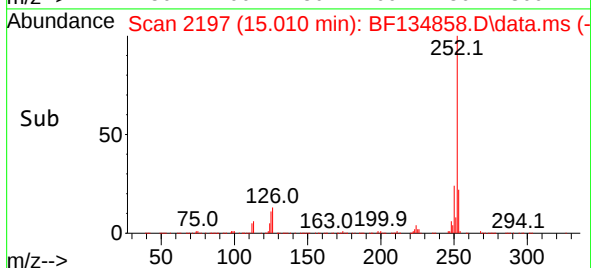
Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023

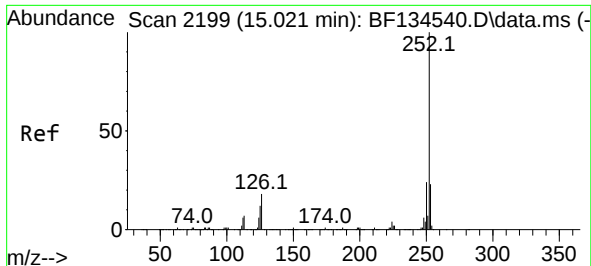


#88
Benzo(b)fluoranthene
Concen: 23.976 ng m
RT: 15.010 min Scan# 2197
Delta R.T. 0.000 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48



Tgt Ion: 252 Resp: 310035
Ion Ratio Lower Upper
252 100
253 23.9 17.3 25.9
125 11.7 6.0 9.0





#89

Benzo(k)fluoranthene

Concen: 6.918 ng m

RT: 15.033 min Scan# 21

Delta R.T. -0.006 min

Lab File: BF134858.D

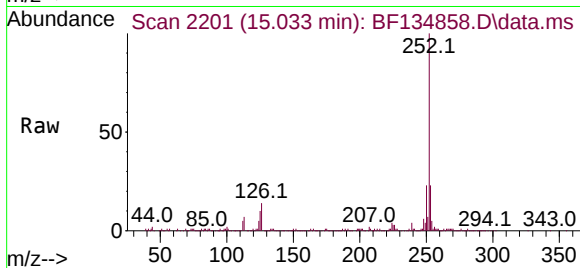
Acq: 19 Aug 2023 00:48

Instrument :

BNA_F

ClientSampleId :

NEVINS-SB04-Z23-24



Tgt Ion:252 Resp: 89108

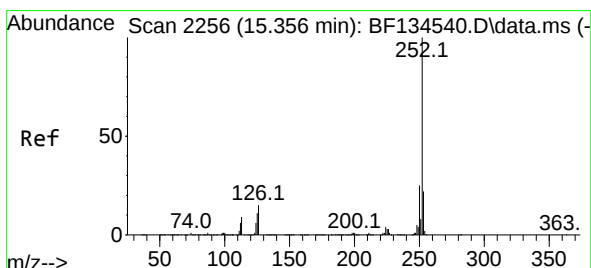
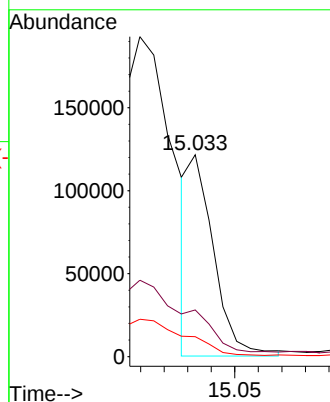
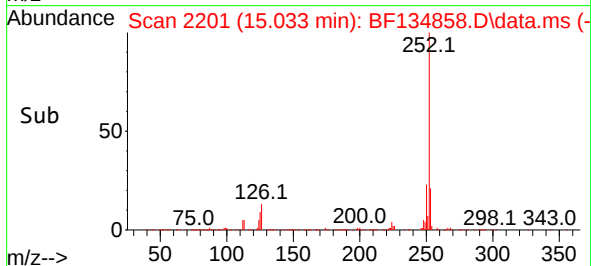
Ion	Ratio	Lower	Upper
252	100		
253	23.1	17.9	26.9
125	9.9	6.3	9.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/21/2023

Supervised By :mohammad ahmed 08/21/2023



#90

Benzo(a)pyrene

Concen: 27.302 ng

RT: 15.374 min Scan# 2259

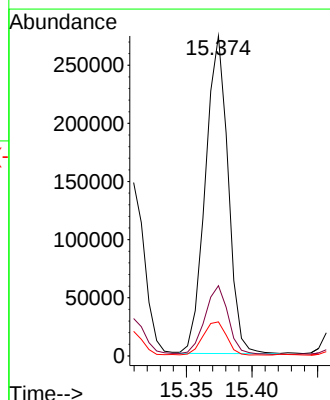
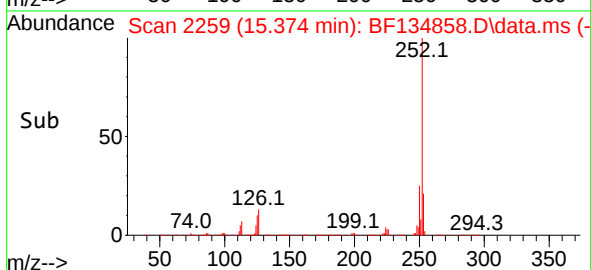
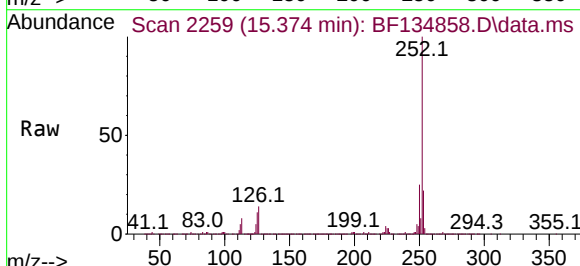
Delta R.T. -0.006 min

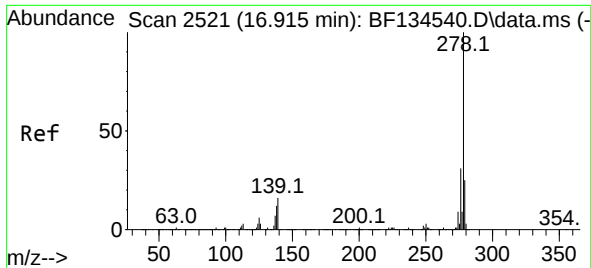
Lab File: BF134858.D

Acq: 19 Aug 2023 00:48

Tgt Ion:252 Resp: 329175

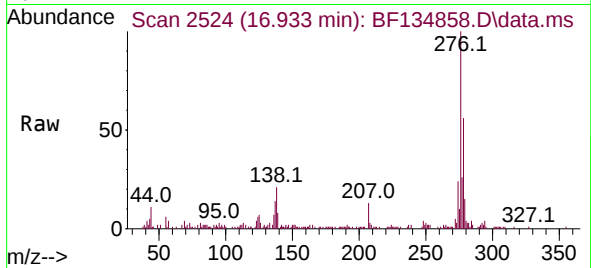
Ion	Ratio	Lower	Upper
252	100		
253	21.9	17.0	25.4
125	10.6	6.2	9.4





#91
Dibenzo(a,h)anthracene
Concen: 2.623 ng
RT: 16.933 min Scan# 2521
Delta R.T. -0.017 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

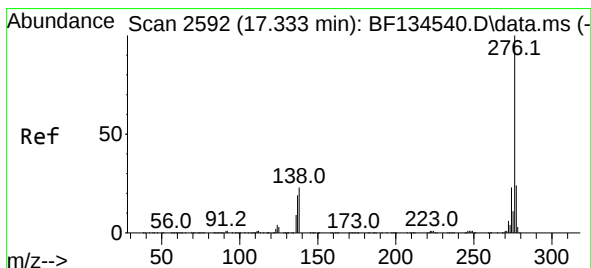
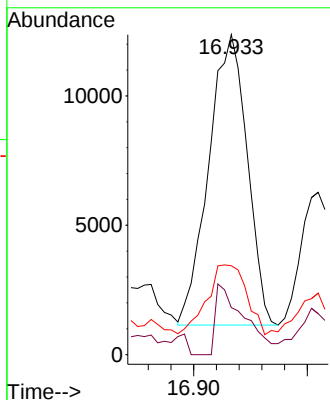
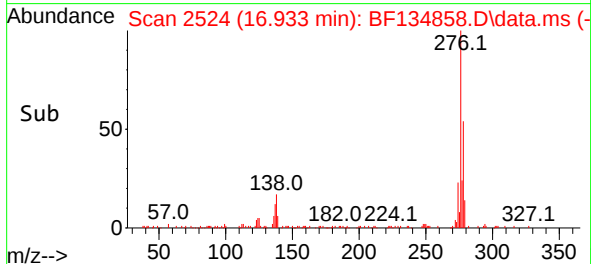
Instrument :
BNA_F
ClientSampleId :
NEVINS-SB04-Z23-24



Tgt Ion:278 Resp: 26431
Ion Ratio Lower Upper
278 100
139 14.7 10.0 15.0
279 27.8 19.7 29.5

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 08/21/2023
Supervised By :mohammad ahmed 08/21/2023



#92
Benzo(g,h,i)perylene
Concen: 11.376 ng
RT: 17.368 min Scan# 2598
Delta R.T. -0.006 min
Lab File: BF134858.D
Acq: 19 Aug 2023 00:48

Tgt Ion:276 Resp: 116937
Ion Ratio Lower Upper
276 100
277 23.8 19.0 28.6
138 20.6 12.2 18.2#

