

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080224\
 Data File : BF138750.D
 Acq On : 02 Aug 2024 16:42
 Operator : RC/JU
 Sample : P3414-03
 Misc :
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 PL-02-07312024-B

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 08/03/2024
 Supervised By :mohammad ahmed 08/03/2024

Quant Time: Aug 02 17:02:45 2024
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Jul 30 17:50:01 2024
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.845	152	46406	20.000	ng	0.00
21) Naphthalene-d8	8.128	136	157893	20.000	ng	0.00
39) Acenaphthene-d10	9.881	164	78797	20.000	ng	0.00
64) Phenanthrene-d10	11.369	188	155464	20.000	ng	0.00
76) Chrysene-d12	14.021	240	91131	20.000	ng	0.02
86) Perylene-d12	15.486	264	81559	20.000	ng	# 0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.475	112	292898	97.430	ng	0.00
7) Phenol-d6	6.487	99	348769	86.410	ng	0.00
23) Nitrobenzene-d5	7.410	82	210058	65.044	ng	0.00
42) 2,4,6-Tribromophenol	10.675	330	68415	105.995	ng	0.00
45) 2-Fluorobiphenyl	9.198	172	346620	66.093	ng	0.00
79) Terphenyl-d14	12.957	244	457998	84.144	ng	0.01
Target Compounds						Qvalue
31) Naphthalene	8.145	128	19988	2.405	ng	99
37) 2-Methylnaphthalene	8.839	142	15466	2.947	ng	98
38) 1-Methylnaphthalene	8.939	142	17368	3.377	ng	97
49) Acenaphthylene	9.739	152	79516	12.215	ng	97
52) Acenaphthene	9.910	154	45859	10.480	ng	99
55) Dibenzofuran	10.086	168	65167	10.550	ng	# 97
58) Fluorene	10.428	166	104226	21.188	ng	97
71) Phenanthrene	11.398	178	1246914	155.764	ng	99
72) Anthracene	11.445	178	364679	46.243	ng	99
73) Carbazole	11.604	167	41795	6.143	ng	93
75) Fluoranthene	12.598	202	1974060	264.149	ng	99
78) Pyrene	12.827	202	1758267	204.920	ng	97
81) Benzo(a)anthracene	14.010	228	821421	130.894	ng	96
83) Chrysene	14.045	228	605663	106.976	ng	96
87) Indeno(1,2,3-cd)pyrene	16.968	276	252169	43.144	ng	92
88) Benzo(b)fluoranthene	15.068	252	686223m	135.728	ng	
89) Benzo(k)fluoranthene	15.080	252	232507m	53.115	ng	
90) Benzo(a)pyrene	15.433	252	505875	118.954	ng	99
91) Dibenzo(a,h)anthracene	16.974	278	61304	12.777	ng	# 77
92) Benzo(g,h,i)perylene	17.421	276	228827	45.961	ng	99

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

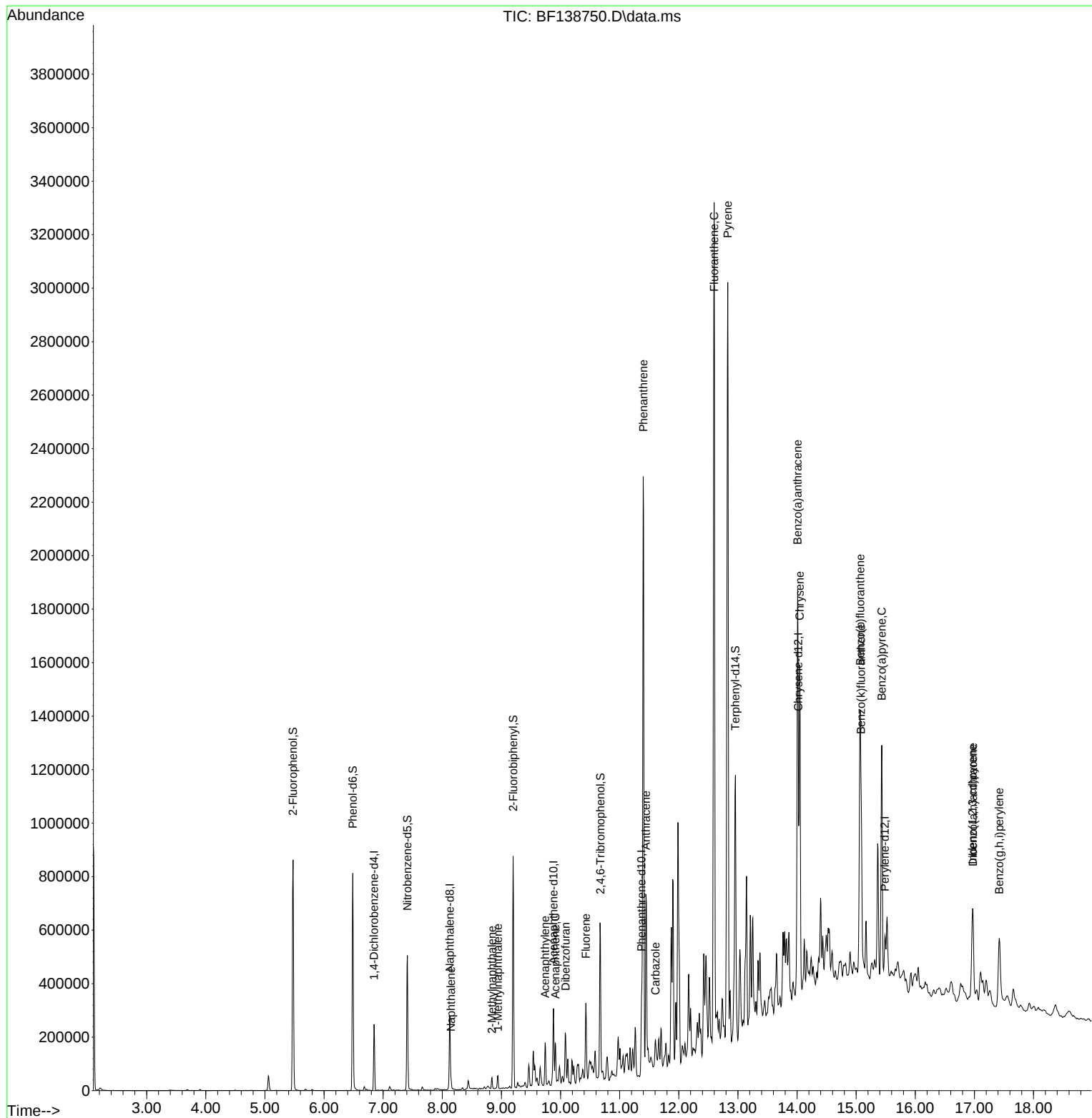
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF080224\
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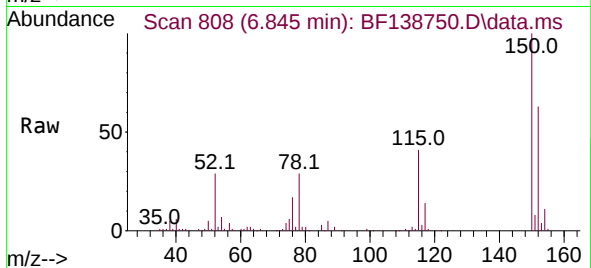
Quant Time: Aug 02 17:02:45 2024
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF073024.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Jul 30 17:50:01 2024
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.845 min Scan# 808
Delta R.T. 0.000 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

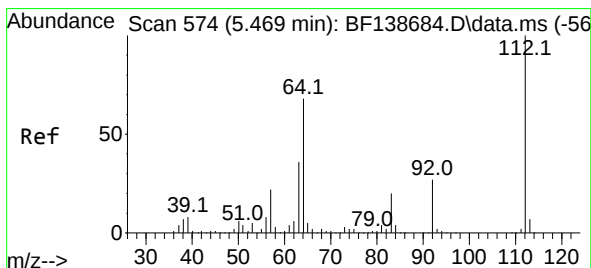
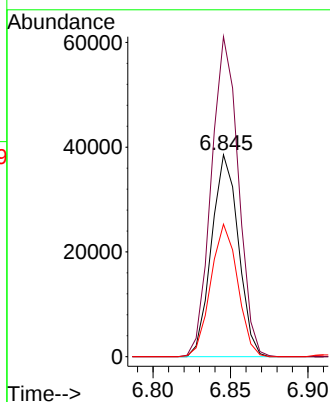
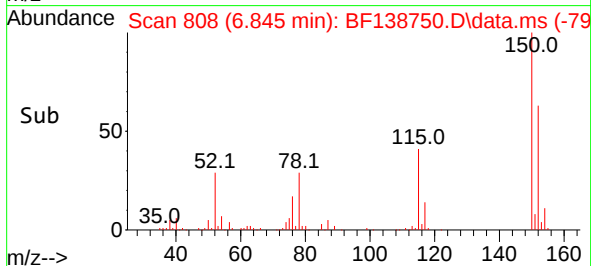
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-B



Tgt Ion:152 Resp: 46400
Ion Ratio Lower Upper
152 100
150 158.5 126.0 189.0
115 65.6 51.7 77.5

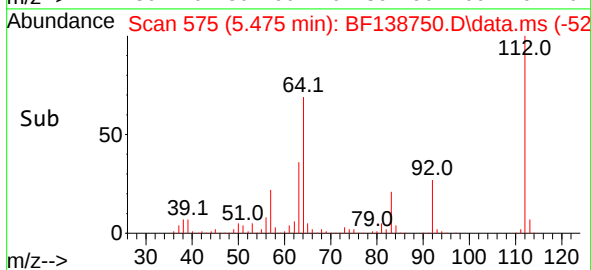
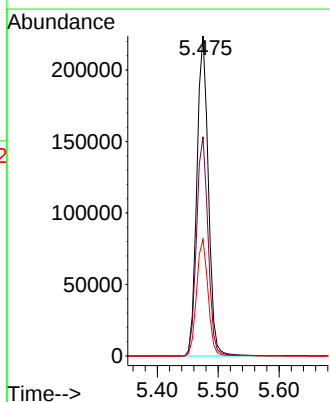
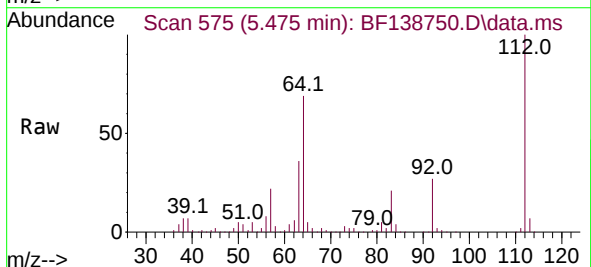
Manual Integrations
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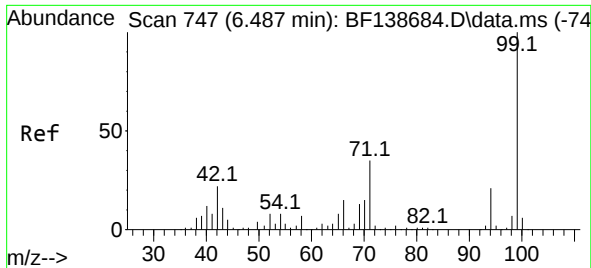
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#5
2-Fluorophenol
Concen: 97.430 ng
RT: 5.475 min Scan# 575
Delta R.T. 0.006 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

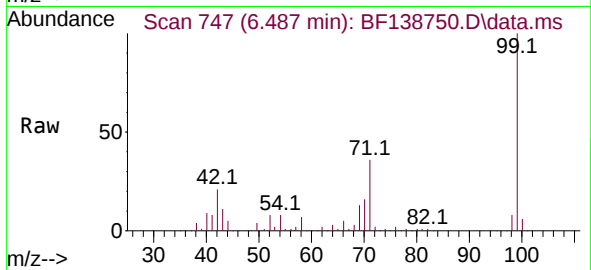
Tgt Ion:112 Resp: 292898
Ion Ratio Lower Upper
112 100
64 68.5 54.2 81.4
63 36.4 28.7 43.1





#7
Phenol-d6
Concen: 86.410 ng
RT: 6.487 min Scan# 747
Delta R.T. 0.000 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

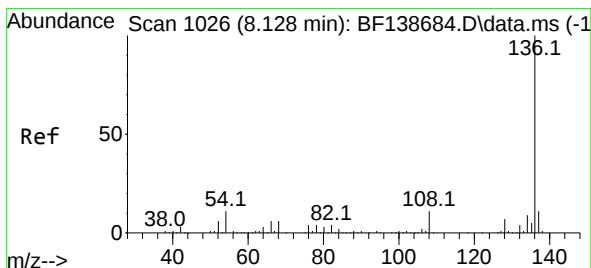
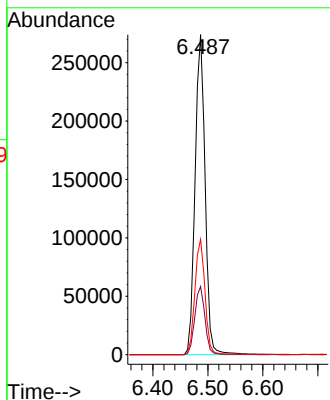
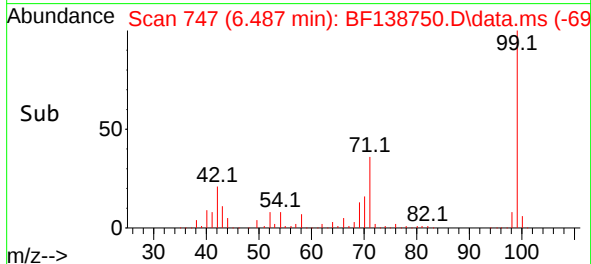
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-B



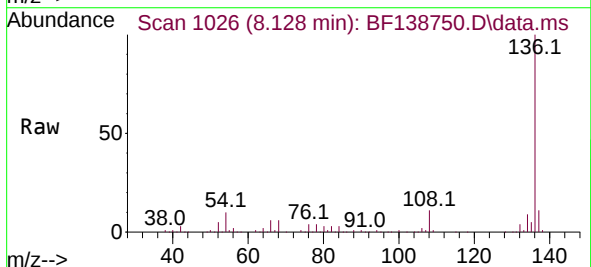
Tgt Ion: 99 Resp: 348769
Ion Ratio Lower Upper
99 100
42 21.3 17.4 26.0
71 36.1 28.1 42.1

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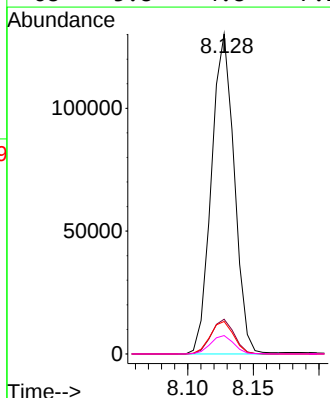
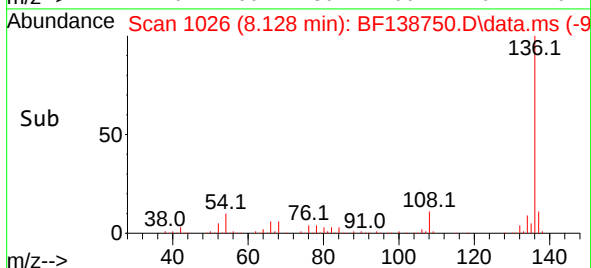
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.128 min Scan# 1026
Delta R.T. -0.000 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42



Tgt Ion:136 Resp: 157893
Ion Ratio Lower Upper
136 100
137 10.9 8.9 13.3
54 10.1 8.6 12.8
68 5.8 4.8 7.2





#23

Nitrobenzene-d5

Concen: 65.044 ng

RT: 7.410 min Scan# 904

Delta R.T. 0.000 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-B

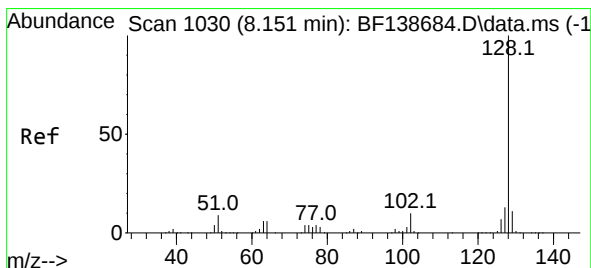
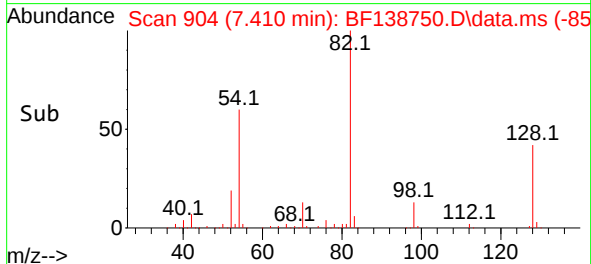
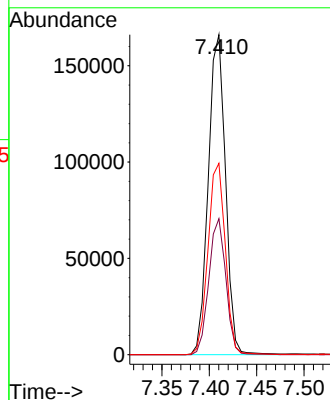
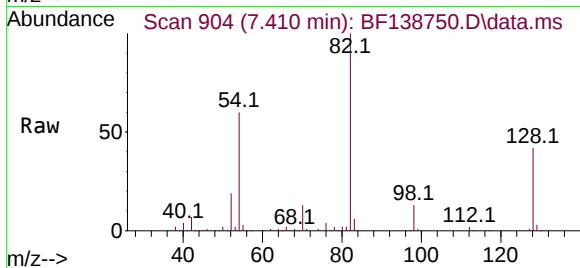
Tgt Ion: 82 Resp: 21058

Ion	Ratio	Lower	Upper
82	100		
128	42.5	32.8	49.2
54	59.8	48.3	72.5

Manual Integrations

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Supervised By :mohammad ahmed 08/03/2024



#31

Naphthalene

Concen: 2.405 ng

RT: 8.145 min Scan# 1029

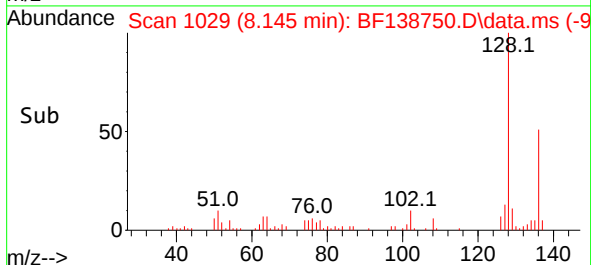
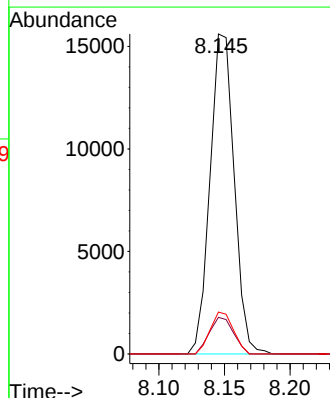
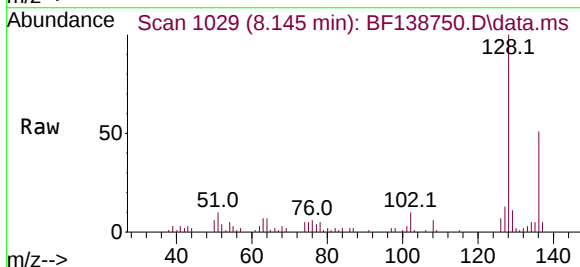
Delta R.T. -0.006 min

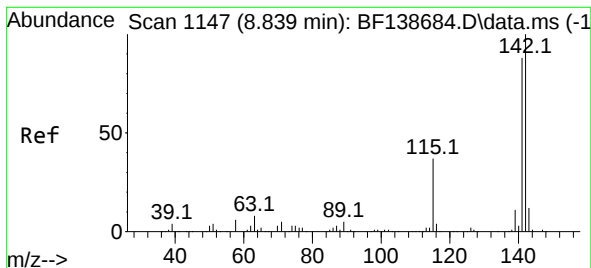
Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Tgt Ion:128 Resp: 19988

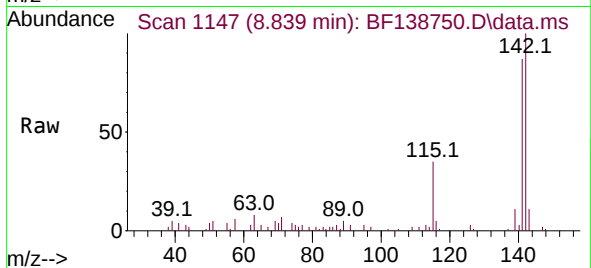
Ion	Ratio	Lower	Upper
128	100		
129	11.4	8.7	13.1
127	13.1	10.6	16.0





#37
2-Methylnaphthalene
Concen: 2.947 ng
RT: 8.839 min Scan# 1147
Delta R.T. 0.000 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

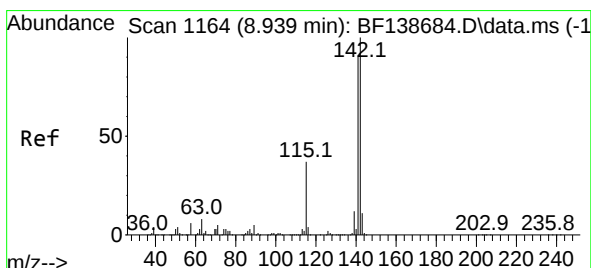
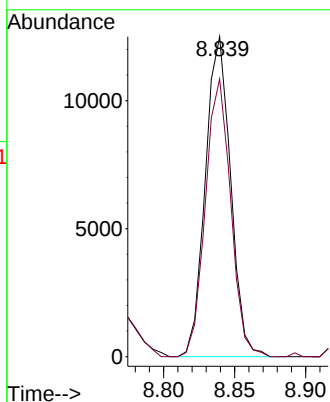
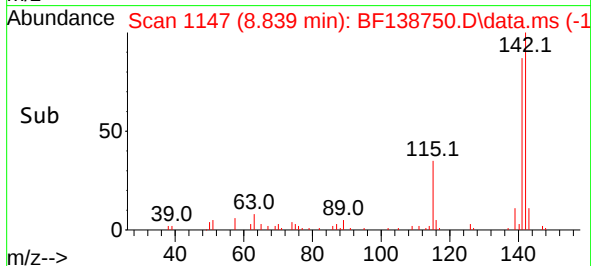
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-B



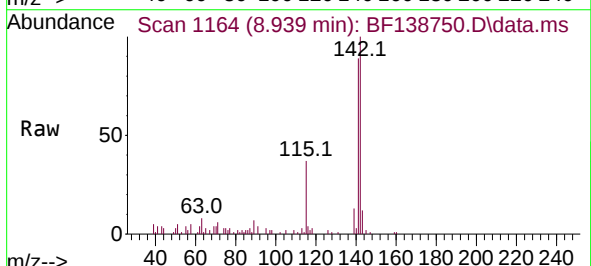
Tgt Ion:142 Resp: 1546
Ion Ratio Lower Upper
142 100
141 86.8 70.8 106.2

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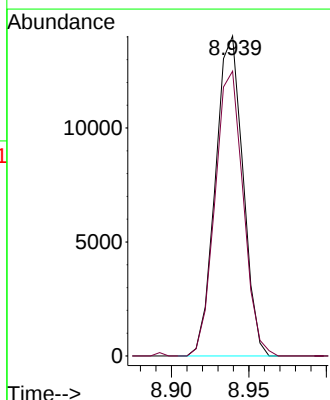
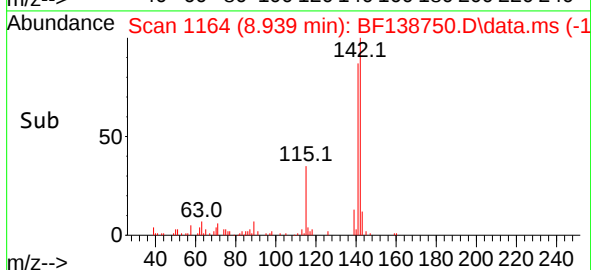
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024

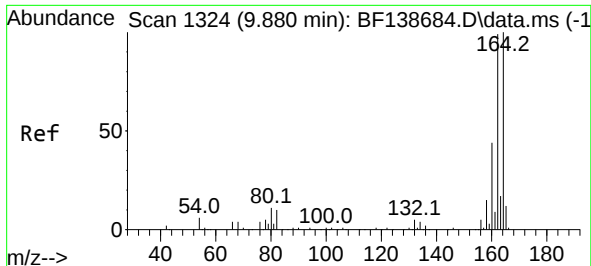


#38
1-Methylnaphthalene
Concen: 3.377 ng
RT: 8.939 min Scan# 1164
Delta R.T. 0.000 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42



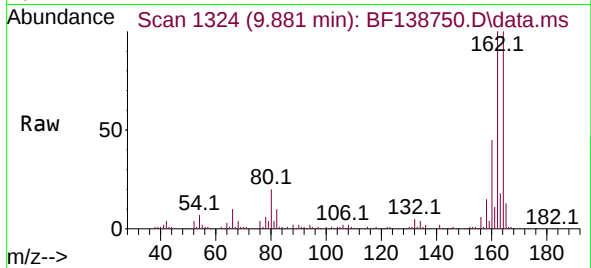
Tgt Ion:142 Resp: 17368
Ion Ratio Lower Upper
142 100
141 89.0 73.1 109.7





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.881 min Scan# 11
Delta R.T. 0.001 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

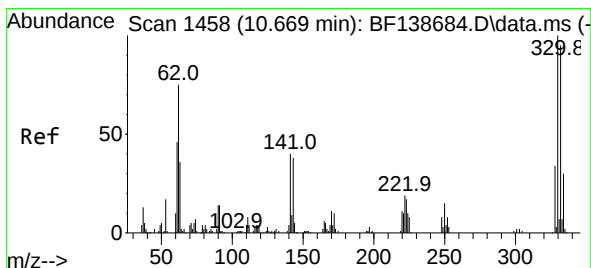
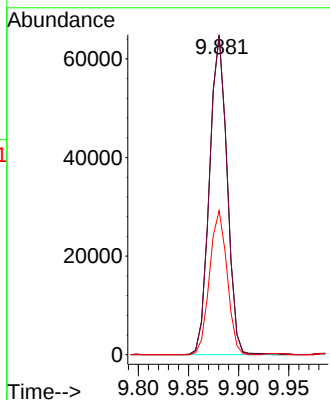
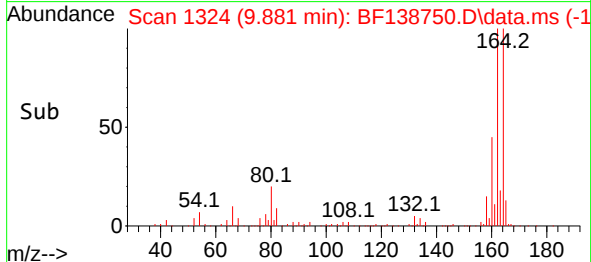
Instrument :
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ClientSampleId :
PL-02-07312024-B



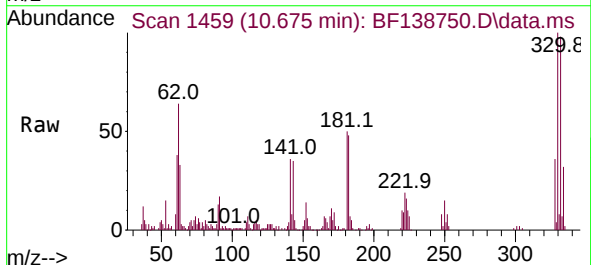
Tgt Ion:164 Resp: 7879
Ion Ratio Lower Upper
164 100
162 100.3 79.4 119.0
160 45.1 35.1 52.7

Manual Integrations
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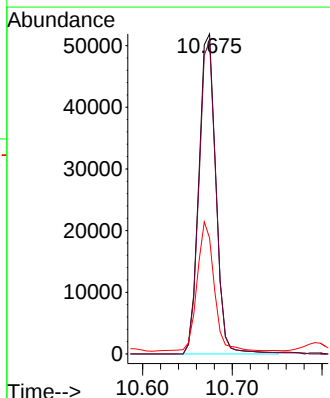
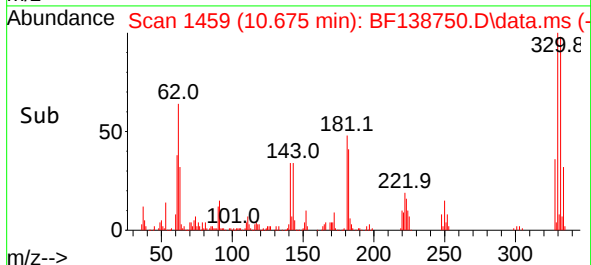
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024

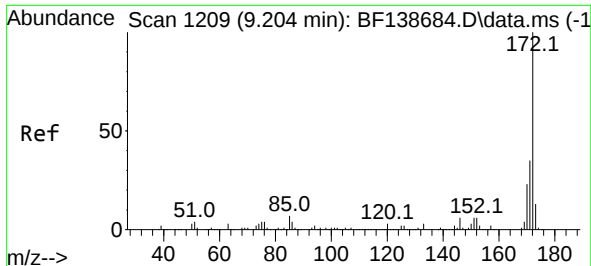


#42
2,4,6-Tribromophenol
Concen: 105.995 ng
RT: 10.675 min Scan# 1459
Delta R.T. 0.006 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42



Tgt Ion:330 Resp: 68415
Ion Ratio Lower Upper
330 100
332 97.5 76.4 114.6
141 40.6 31.1 46.7





#45

2-Fluorobiphenyl

Concen: 66.093 ng

RT: 9.198 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF138750.D

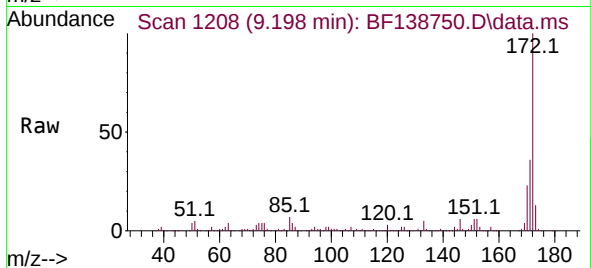
Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-B



Tgt Ion:172 Resp: 346620

Ion Ratio Lower Upper

172 100

171 35.6 28.3 42.5

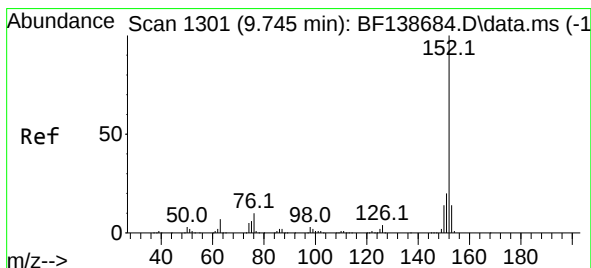
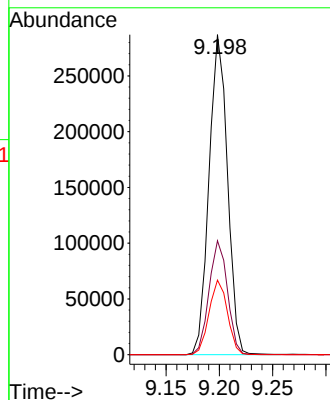
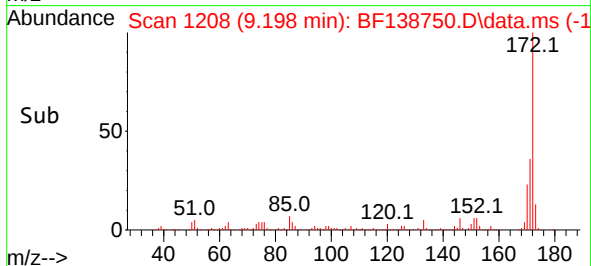
170 23.3 18.8 28.2

Manual Integrations

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Reviewed By :Yogesh Patel 08/03/2024

Supervised By :mohammad ahmed 08/03/2024



#49

Acenaphthylene

Concen: 12.215 ng

RT: 9.739 min Scan# 1300

Delta R.T. -0.006 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

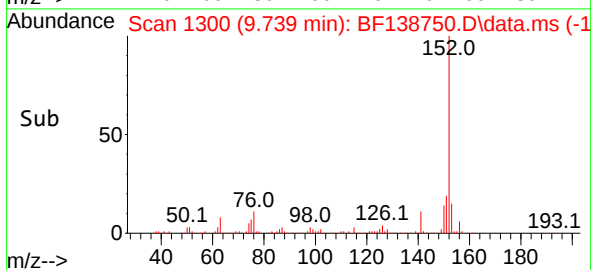
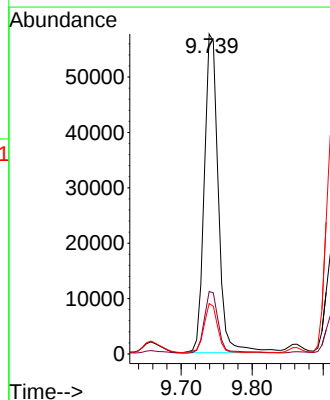
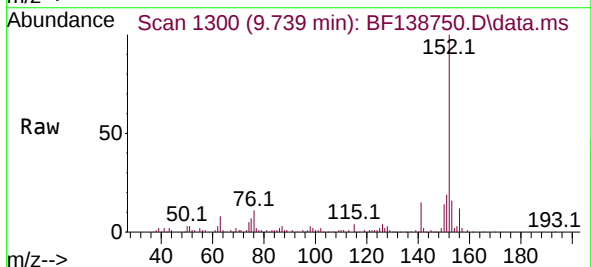
Tgt Ion:152 Resp: 79516

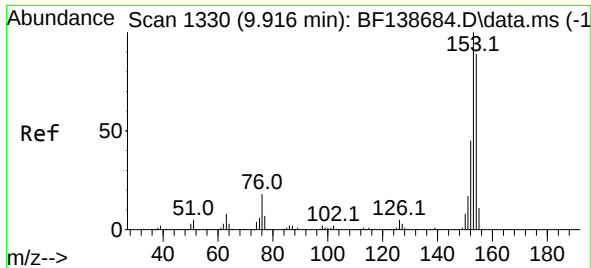
Ion Ratio Lower Upper

152 100

151 19.5 16.0 24.0

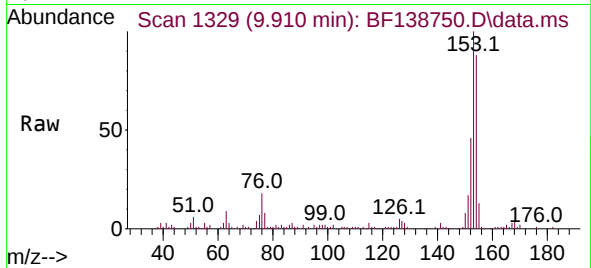
153 15.7 11.0 16.4





#52
Acenaphthene
Concen: 10.480 ng
RT: 9.910 min Scan# 1330
Delta R.T. -0.006 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

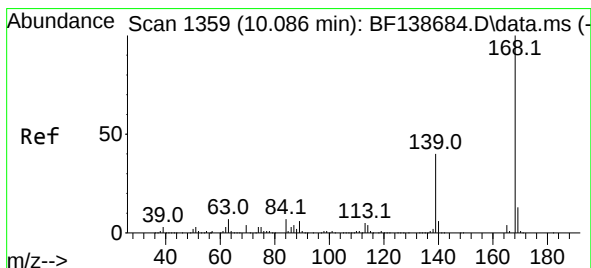
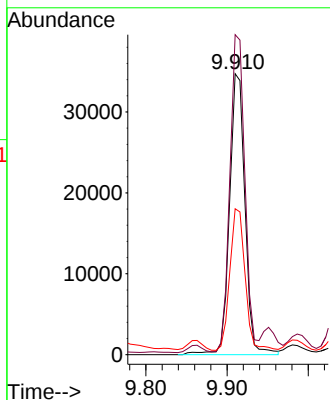
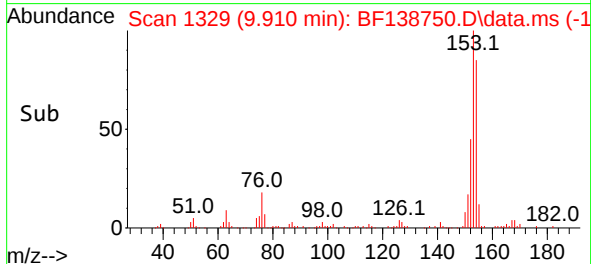
Instrument :
BNA_F
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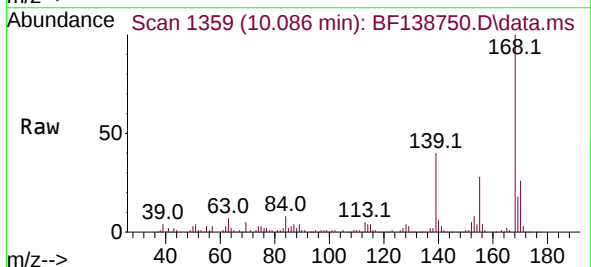
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Ion Ratio Lower Upper
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153 113.9 89.9 134.9
152 51.9 40.6 60.8

Manual Integrations
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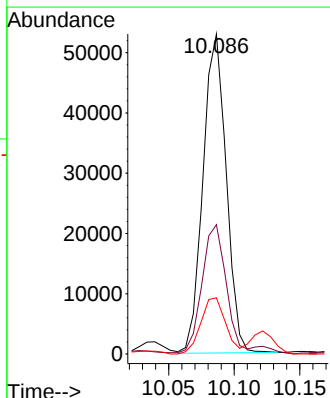
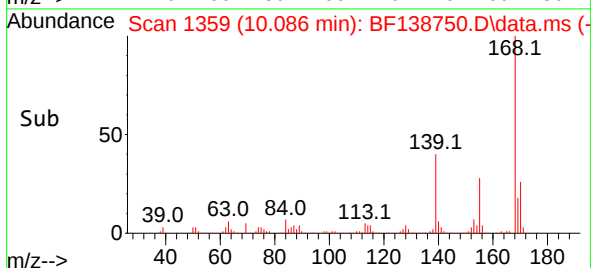
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024

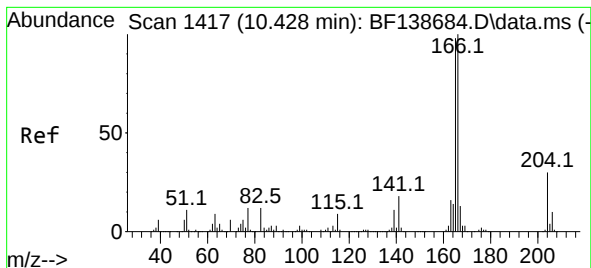


#55
Dibenzofuran
Concen: 10.550 ng
RT: 10.086 min Scan# 1359
Delta R.T. 0.000 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42



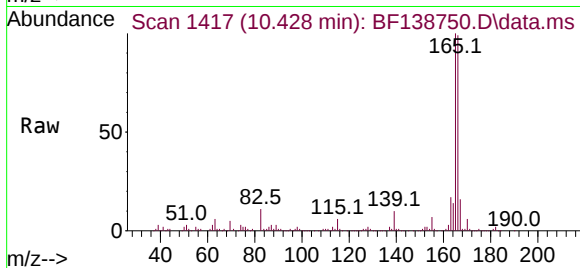
Tgt Ion:168 Resp: 65167
Ion Ratio Lower Upper
168 100
139 40.4 32.6 49.0
169 17.5 10.7 16.1#





#58
Fluorene
Concen: 21.188 ng
RT: 10.428 min Scan# 1417
Delta R.T. 0.000 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

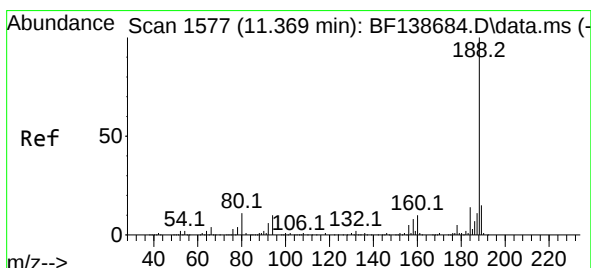
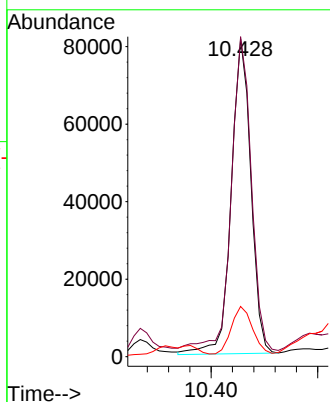
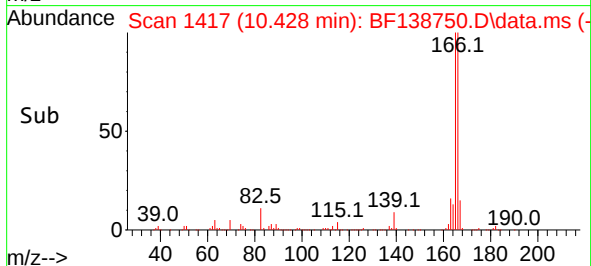
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-B



Tgt Ion:166 Resp: 104220
Ion Ratio Lower Upper
166 100
165 100.7 78.4 117.6
167 15.8 10.6 16.0

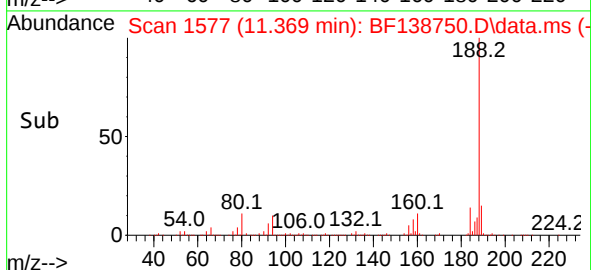
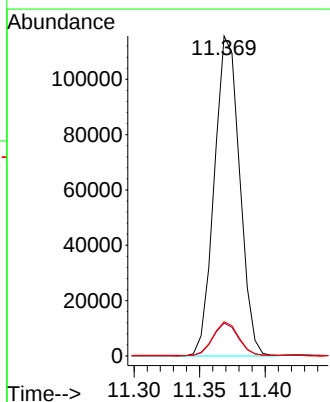
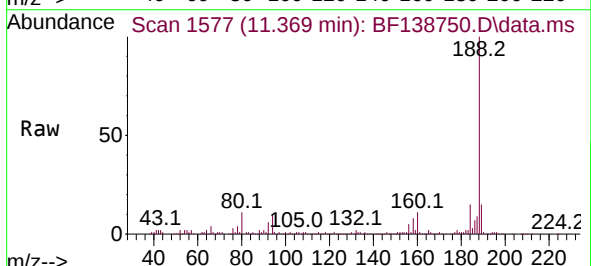
Manual Integrations
APPROVED

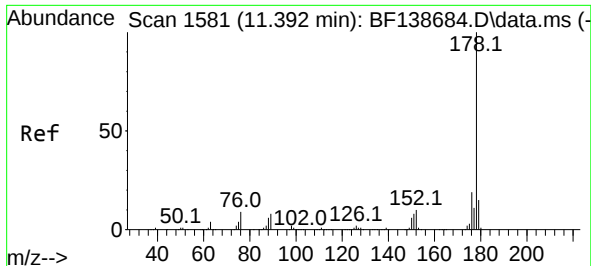
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.369 min Scan# 1577
Delta R.T. 0.000 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

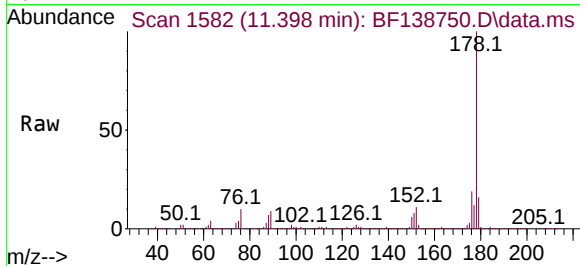
Tgt Ion:188 Resp: 155464
Ion Ratio Lower Upper
188 100
94 10.3 7.6 11.4
80 10.7 8.6 12.8





#71
Phenanthrene
Concen: 155.764 ng
RT: 11.398 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

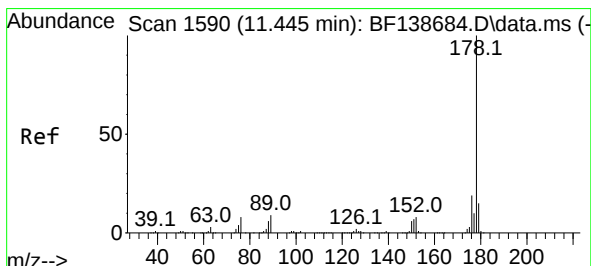
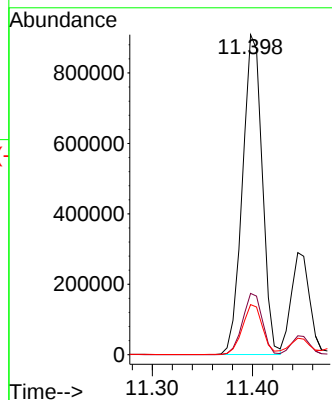
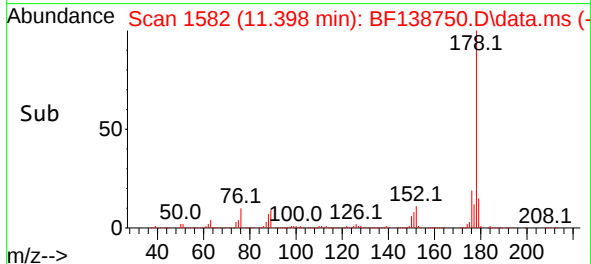
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-B



Tgt Ion:178 Resp: 1246914
Ion Ratio Lower Upper
178 100
176 19.2 15.4 23.0
179 15.7 12.2 18.2

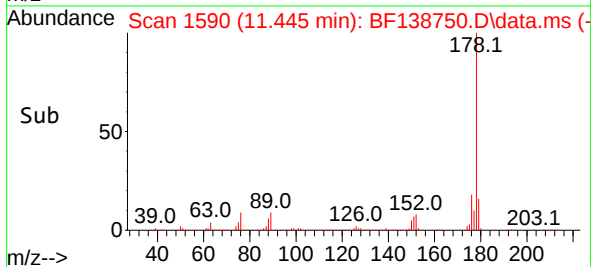
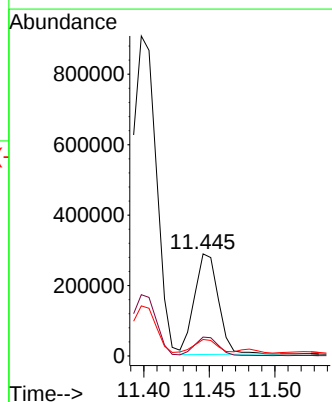
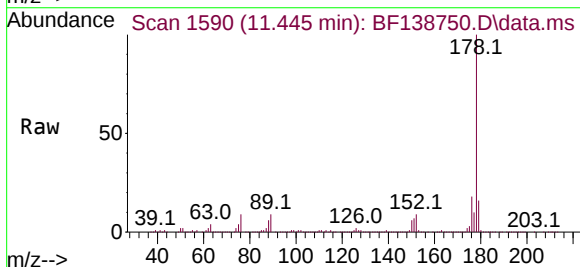
Manual Integrations
APPROVED

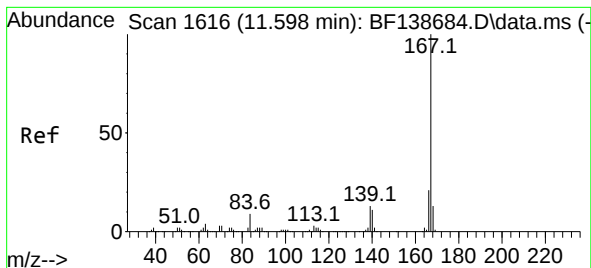
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#72
Anthracene
Concen: 46.243 ng
RT: 11.445 min Scan# 1590
Delta R.T. 0.000 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

Tgt Ion:178 Resp: 364679
Ion Ratio Lower Upper
178 100
176 18.4 14.9 22.3
179 16.1 12.4 18.6





#73

Carbazole

Concen: 6.143 ng

RT: 11.604 min Scan# 1617

Delta R.T. 0.006 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-B

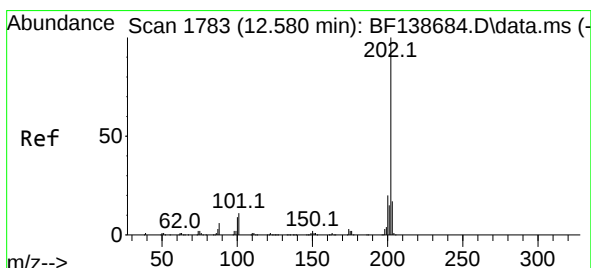
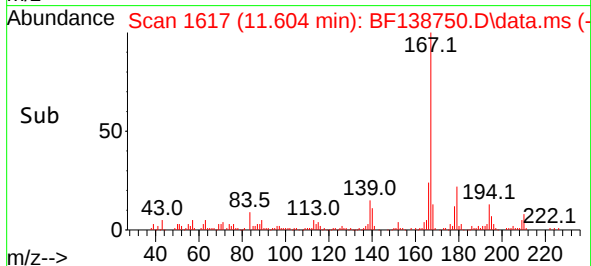
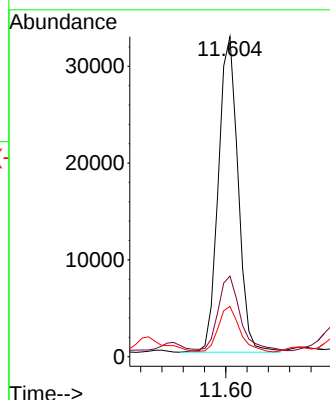
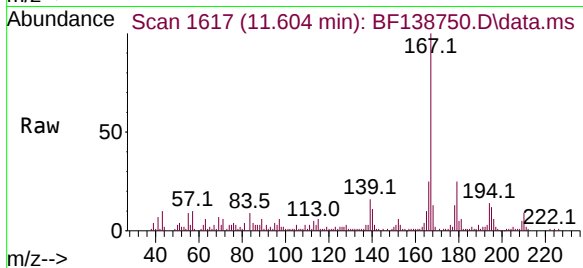
Tgt Ion:167	Resp: 4179
Ion Ratio	Lower Upper
167 100	
166 25.2	17.2 25.8
139 15.7	10.6 16.0

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2024

Supervised By :mohammad ahmed 08/03/2024



#75

Fluoranthene

Concen: 264.149 ng

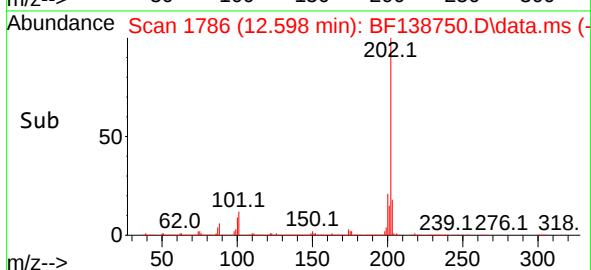
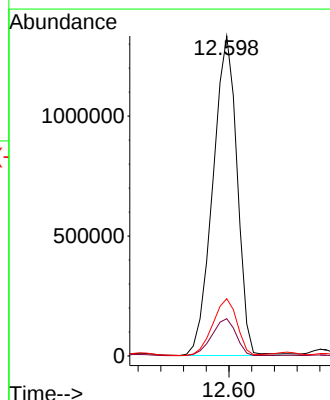
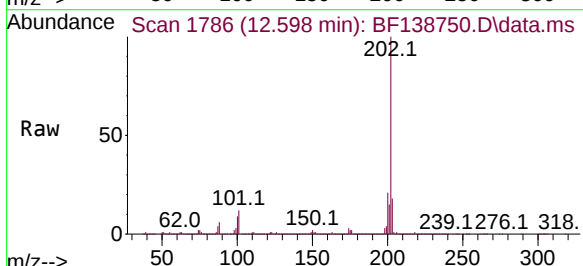
RT: 12.598 min Scan# 1786

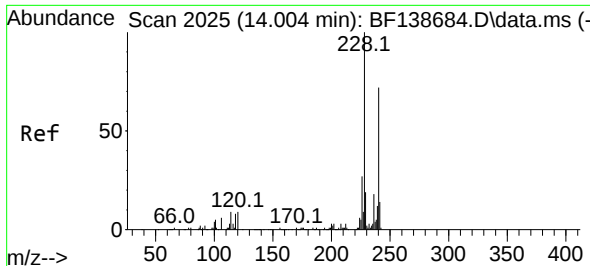
Delta R.T. 0.018 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Tgt Ion:202	Resp: 1974060
Ion Ratio	Lower Upper
202 100	
101 11.6	0.0 31.2
203 17.9	0.0 37.3





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.021 min Scan# 2025
Delta R.T. 0.018 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

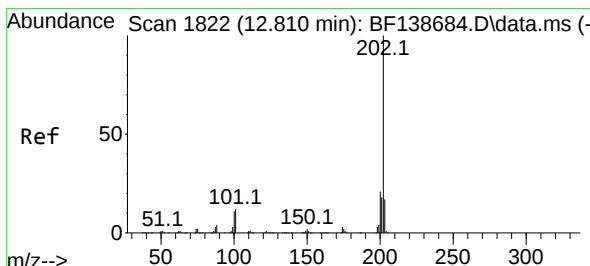
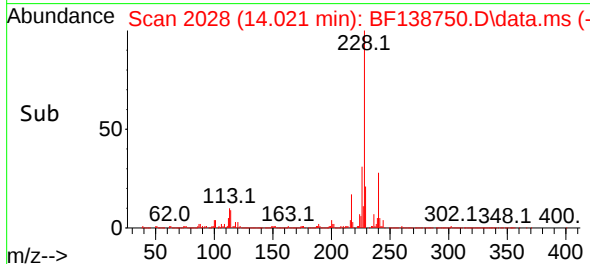
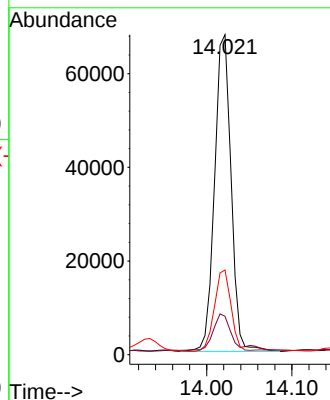
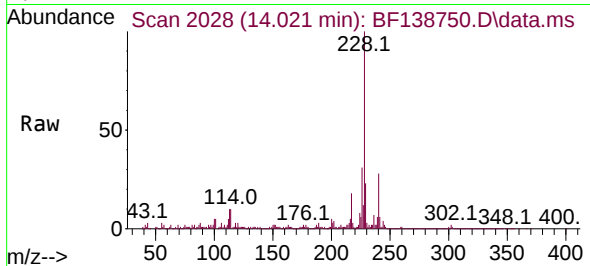
PL-02-07312024-B

Tgt Ion:240 Resp: 9113
Ion Ratio Lower Upper
240 100
120 12.0 10.2 15.4
236 26.4 19.8 29.8

Manual Integrations

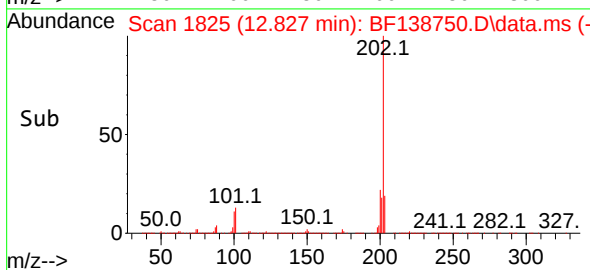
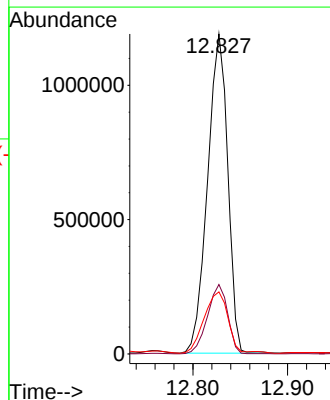
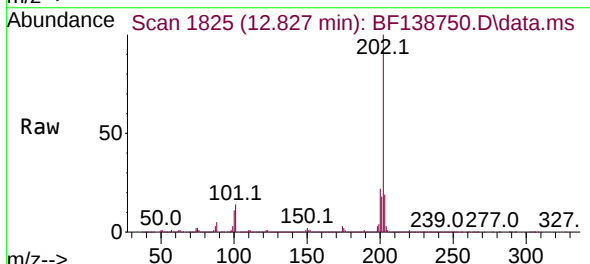
APPROVED

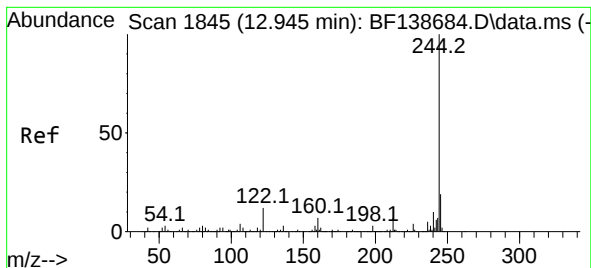
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#78
Pyrene
Concen: 204.920 ng
RT: 12.827 min Scan# 1825
Delta R.T. 0.018 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

Tgt Ion:202 Resp: 1758267
Ion Ratio Lower Upper
202 100
200 21.7 16.8 25.2
203 19.4 13.8 20.6





#79

Terphenyl-d14

Concen: 84.144 ng

RT: 12.957 min Scan# 11

Delta R.T. 0.012 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-B

Tgt Ion:244 Resp: 457998

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.2

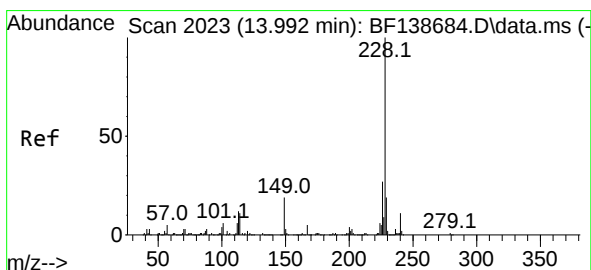
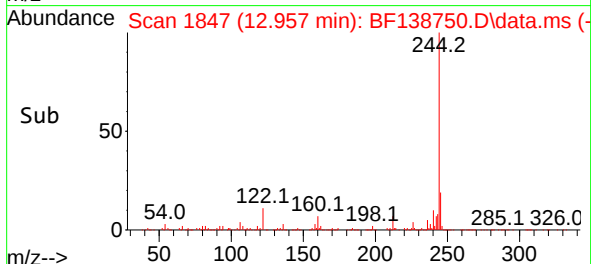
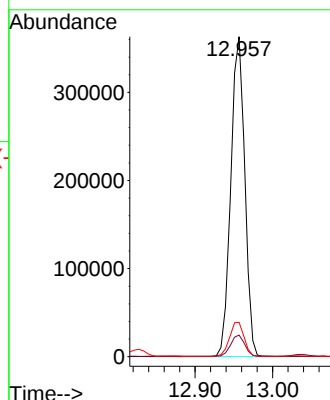
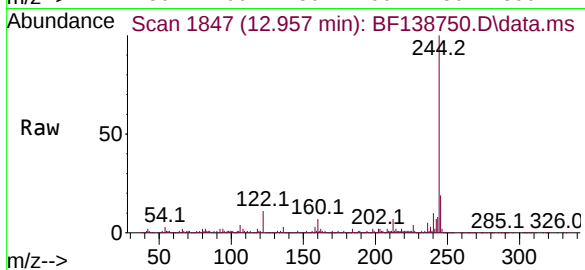
122 10.7 9.6 14.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2024

Supervised By :mohammad ahmed 08/03/2024



#81

Benzo(a)anthracene

Concen: 130.894 ng

RT: 14.010 min Scan# 2026

Delta R.T. 0.018 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

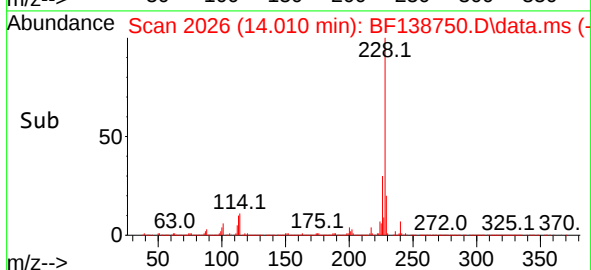
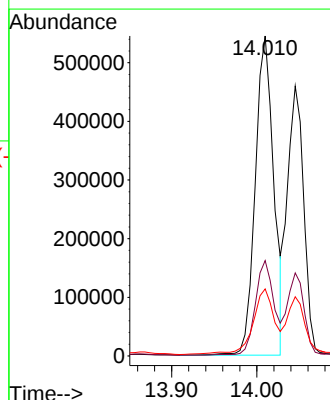
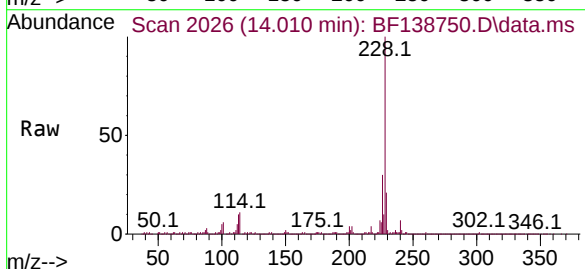
Tgt Ion:228 Resp: 821421

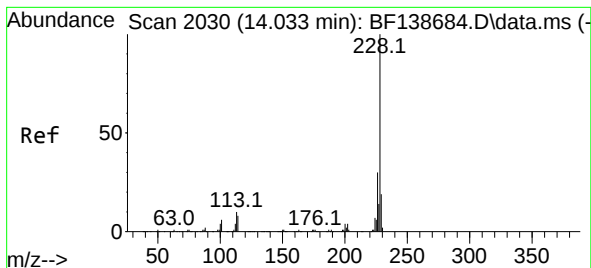
Ion Ratio Lower Upper

228 100

226 29.8 22.1 33.1

229 20.9 15.4 23.0





#83

Chrysene

Concen: 106.976 ng

RT: 14.045 min Scan# 2030

Delta R.T. 0.012 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

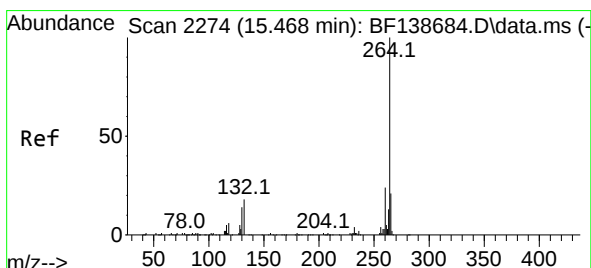
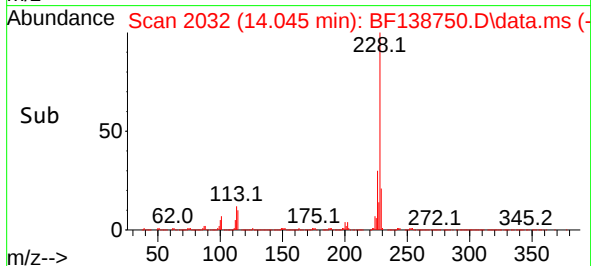
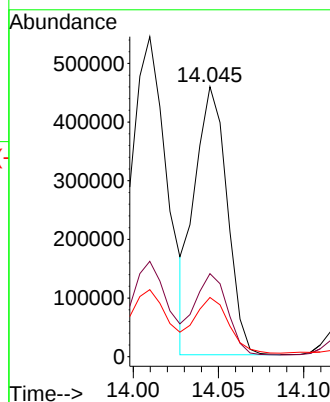
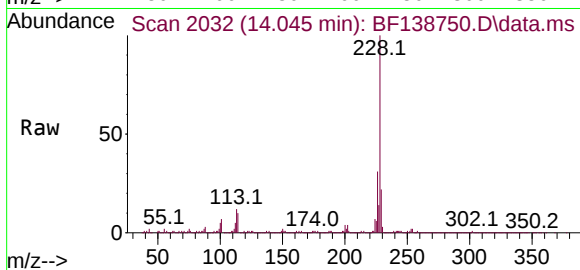
PL-02-07312024-B

Tgt Ion:228	Resp: 60566
Ion Ratio	Lower Upper
228 100	
226 30.8	23.7 35.5
229 21.9	15.0 22.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#86

Perylene-d12

Concen: 20.000 ng

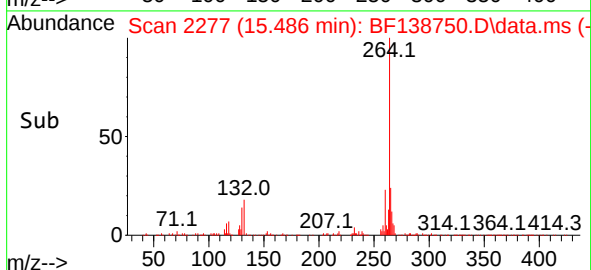
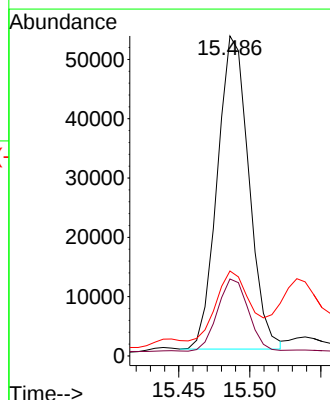
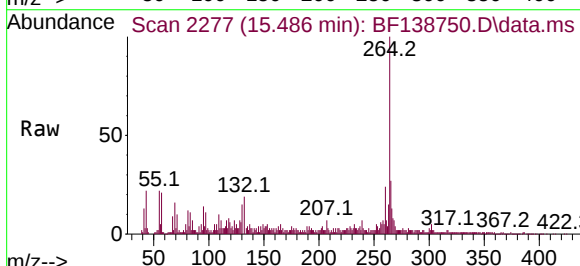
RT: 15.486 min Scan# 2277

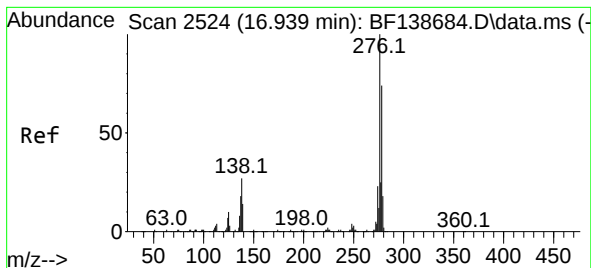
Delta R.T. 0.018 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Tgt Ion:264	Resp: 81559
Ion Ratio	Lower Upper
264 100	
260 24.0	19.0 28.6
265 26.5	17.0 25.6





#87

Indeno(1,2,3-cd)pyrene

Concen: 43.144 ng

RT: 16.968 min Scan# 21

Delta R.T. 0.029 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

PL-02-07312024-B

Tgt Ion:276 Resp: 252169

Ion Ratio Lower Upper

276 100

138 22.1 21.8 32.8

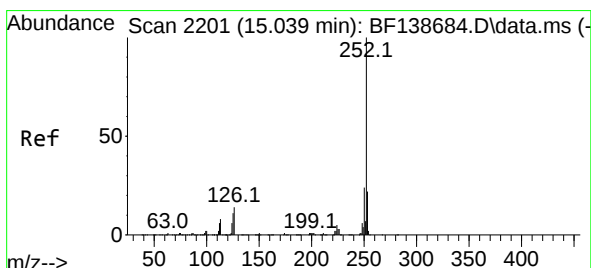
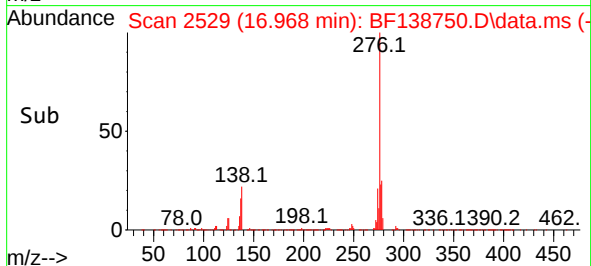
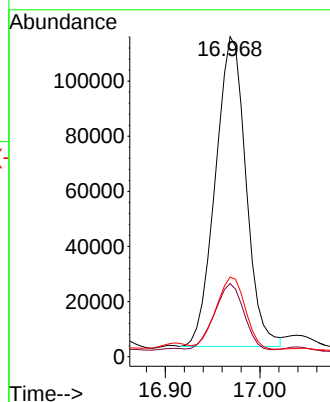
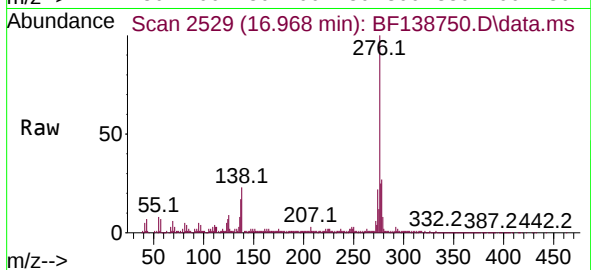
277 22.9 20.6 30.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2024

Supervised By :mohammad ahmed 08/03/2024



#88

Benzo(b)fluoranthene

Concen: 135.728 ng m

RT: 15.068 min Scan# 2206

Delta R.T. 0.029 min

Lab File: BF138750.D

Acq: 02 Aug 2024 16:42

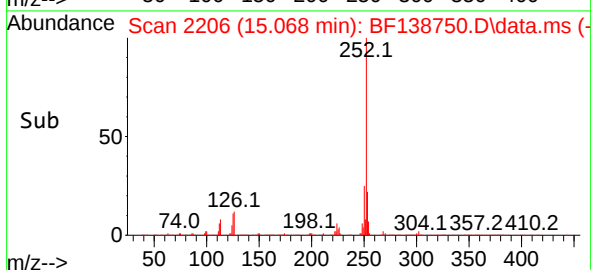
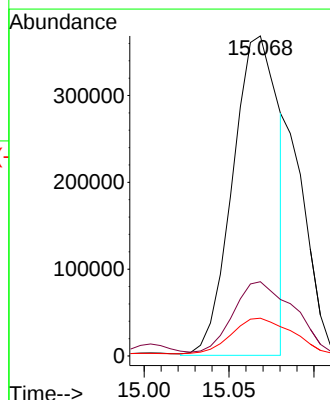
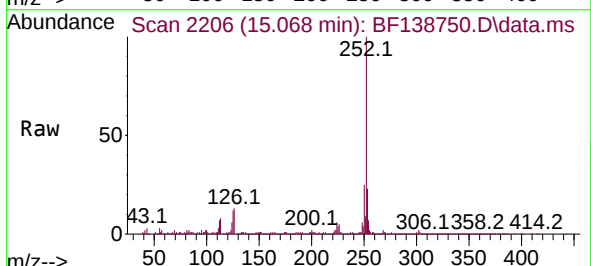
Tgt Ion:252 Resp: 686223

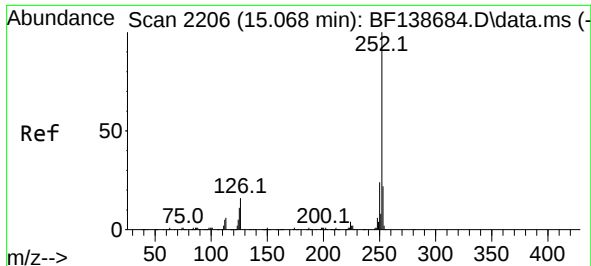
Ion Ratio Lower Upper

252 100

253 23.2 17.5 26.3

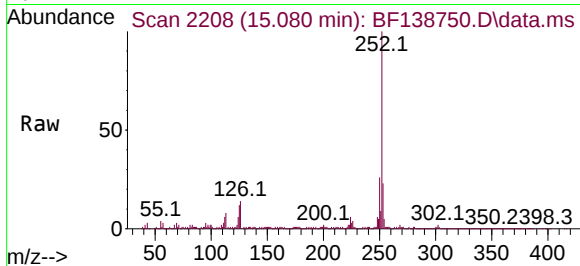
125 11.8 8.9 13.3





#89
Benzo(k)fluoranthene
Concen: 53.115 ng m
RT: 15.080 min Scan# 21
Delta R.T. 0.012 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

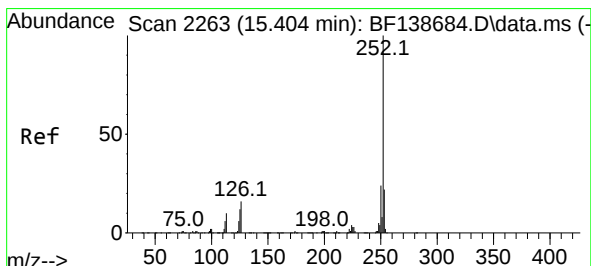
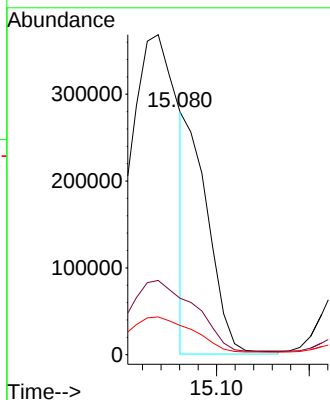
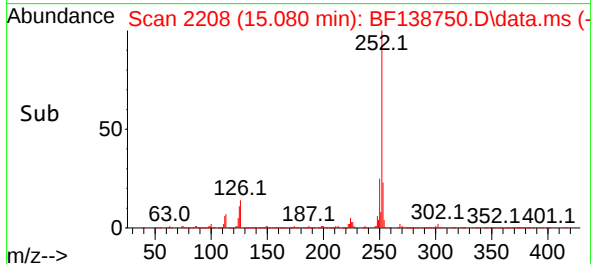
Instrument :
BNA_F
ClientSampleId :
PL-02-07312024-B



Tgt Ion:252 Resp: 23250
Ion Ratio Lower Upper
252 100
253 23.3 17.4 26.0
125 12.1 8.6 13.0

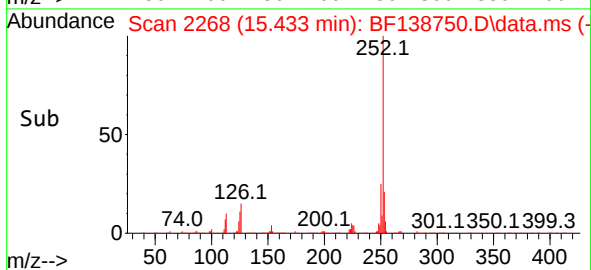
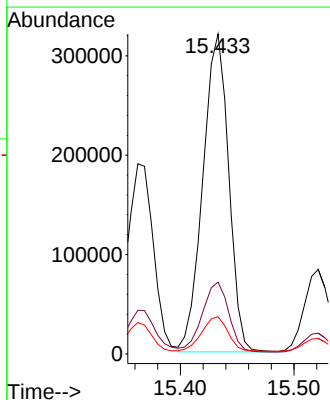
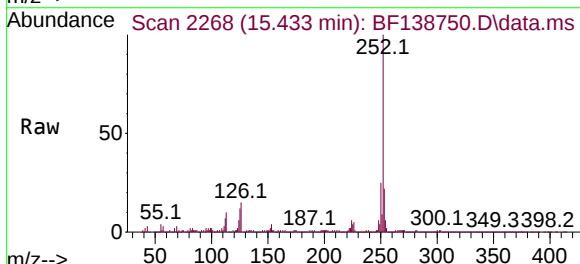
Manual Integrations
APPROVED

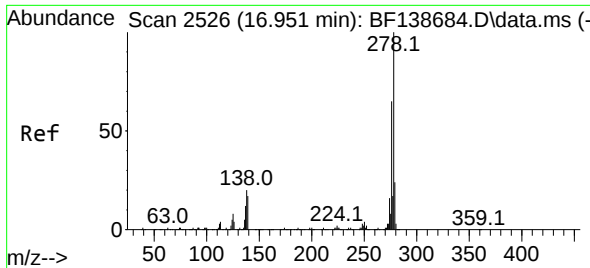
Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#90
Benzo(a)pyrene
Concen: 118.954 ng
RT: 15.433 min Scan# 2268
Delta R.T. 0.029 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

Tgt Ion:252 Resp: 505875
Ion Ratio Lower Upper
252 100
253 22.5 17.3 25.9
125 11.6 9.5 14.3





#91
Dibenzo(a,h)anthracene
Concen: 12.777 ng
RT: 16.974 min Scan# 2530
Delta R.T. 0.024 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

Instrument :

BNA_F

ClientSampleId :

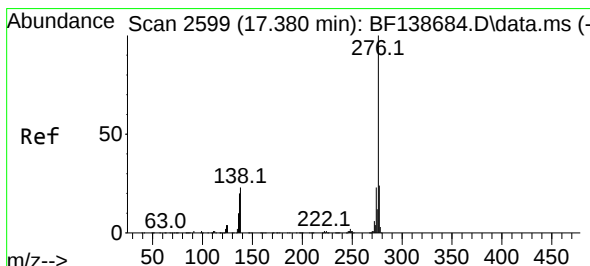
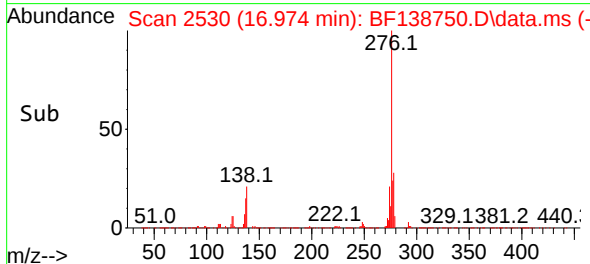
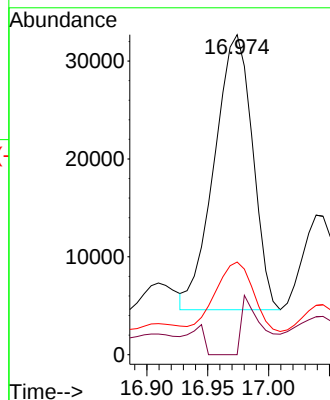
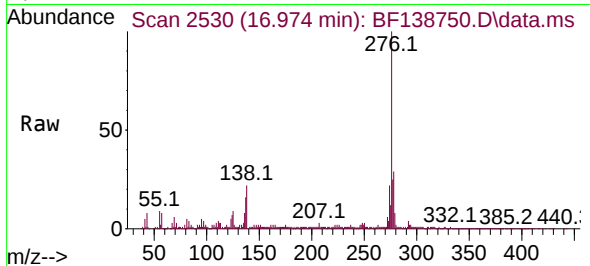
PL-02-07312024-B

Tgt Ion:278 Resp: 61304
Ion Ratio Lower Upper
278 100
139 0.0 14.0 21.0
279 29.0 19.0 28.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 08/03/2024
Supervised By :mohammad ahmed 08/03/2024



#92
Benzo(g,h,i)perylene
Concen: 45.961 ng
RT: 17.421 min Scan# 2606
Delta R.T. 0.041 min
Lab File: BF138750.D
Acq: 02 Aug 2024 16:42

Tgt Ion:276 Resp: 228827
Ion Ratio Lower Upper
276 100
277 24.5 19.0 28.4
138 22.7 18.5 27.7

