

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061623\
 Data File : BF133807.D
 Acq On : 16 Jun 2023 15:20
 Operator : CG\JU
 Sample : 03186-01
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 OR-03-061323

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 06/19/2023
 Supervised By :mohammad ahmed 06/20/2023

Quant Time: Jun 16 15:43:53 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF060923.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jun 16 14:54:03 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.863	152	93434	20.000	ng	0.00
21) Naphthalene-d8	8.140	136	356595	20.000	ng	0.00
39) Acenaphthene-d10	9.898	164	170907	20.000	ng	0.00
64) Phenanthrene-d10	11.392	188	290364	20.000	ng	0.00
76) Chrysene-d12	14.057	240	150391	20.000	ng	0.00
86) Perylene-d12	15.563	264	124923	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.487	112	344033	64.102	ng	0.00
7) Phenol-d6	6.493	99	482942	69.130	ng	0.00
23) Nitrobenzene-d5	7.422	82	280807	42.891	ng	0.00
42) 2,4,6-Tribromophenol	10.692	330	147339	68.106	ng	0.00
45) 2-Fluorobiphenyl	9.216	172	638886	53.139	ng	0.00
79) Terphenyl-d14	12.986	244	599903	61.723	ng	0.00
Target Compounds						
						Qvalue
31) Naphthalene	8.163	128	141850	8.165	ng	99
37) 2-Methylnaphthalene	8.851	142	97718	8.095	ng	98
38) 1-Methylnaphthalene	8.951	142	63172	5.687	ng	99
46) 1,1'-Biphenyl	9.316	154	35612	2.584	ng	99
49) Acenaphthylene	9.757	152	40527	2.355	ng	97
52) Acenaphthene	9.928	154	162341	16.116	ng	100
55) Dibenzofuran	10.104	168	198406	12.908	ng	100
58) Fluorene	10.445	166	313317	26.656	ng	99
71) Phenanthrene	11.422	178	1812412	123.029	ng	98
72) Anthracene	11.469	178	657306	42.792	ng	99
73) Carbazole	11.622	167	106387	7.436	ng	97
75) Fluoranthene	12.622	202	2105116	134.564	ng	98
78) Pyrene	12.851	202	1869136	133.419	ng	99
81) Benzo(a)anthracene	14.045	228	762973	73.344	ng	97
83) Chrysene	14.080	228	560726	56.990	ng	97
87) Indeno(1,2,3-cd)pyrene	17.115	276	231741	26.964	ng	94
88) Benzo(b)fluoranthene	15.121	252	614962m	81.038	ng	
89) Benzo(k)fluoranthene	15.145	252	156707m	21.199	ng	
90) Benzo(a)pyrene	15.504	252	421723	59.880	ng	96
91) Dibenzo(a,h)anthracene	17.121	278	55398	7.786	ng	# 80
92) Benzo(g,h,i)perylene	17.586	276	215937	30.610	ng	97

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

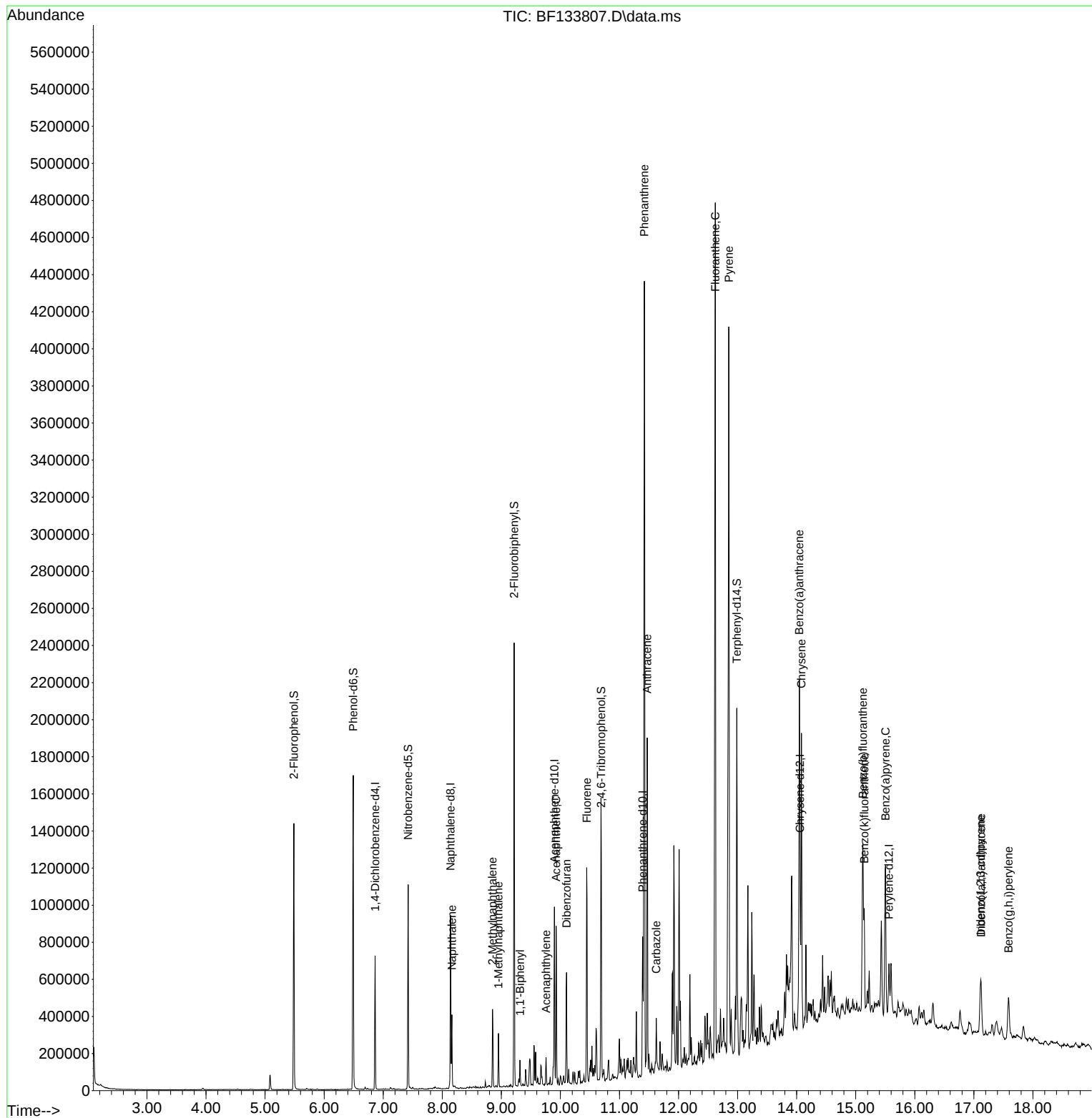
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF061623\
Data File : BF133807.D
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APPROVED

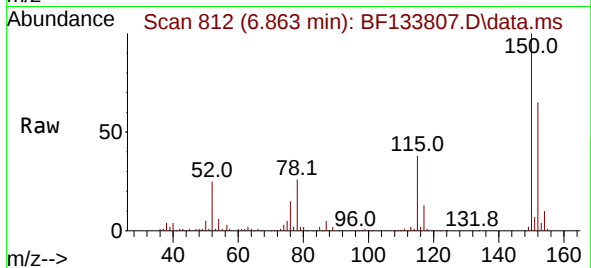
Reviewed By :Yogesh Patel 06/19/2023
Supervised By :mohammad ahmed 06/20/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.863 min Scan# 812
Delta R.T. 0.000 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

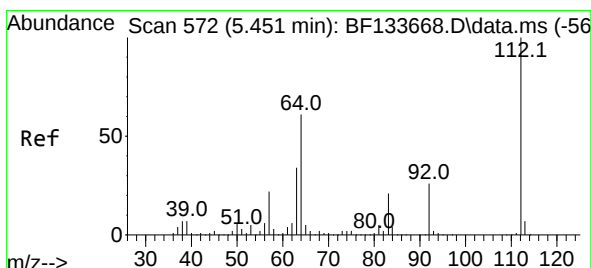
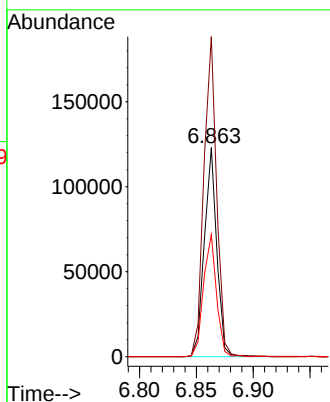
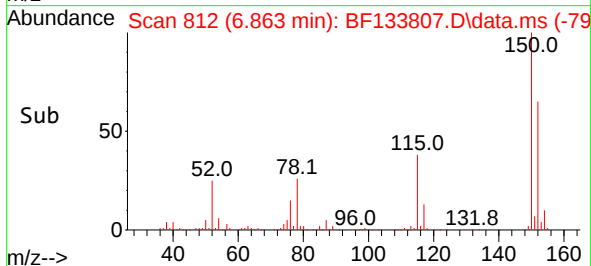
Instrument :
BNA_F
ClientSampleId :
OR-03-061323



Tgt Ion:152 Resp: 93434
Ion Ratio Lower Upper
152 100
150 153.0 124.3 186.5
115 58.5 48.5 72.7

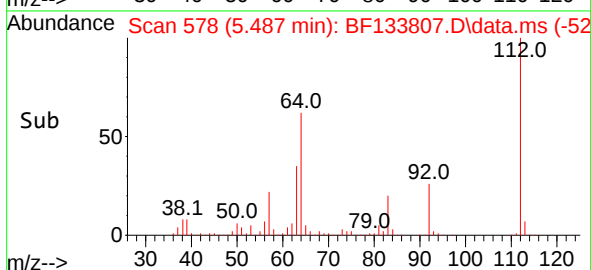
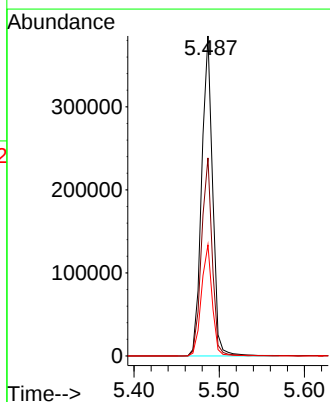
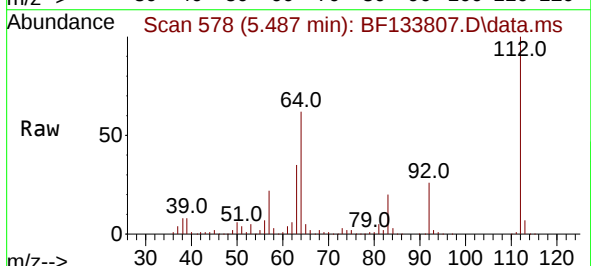
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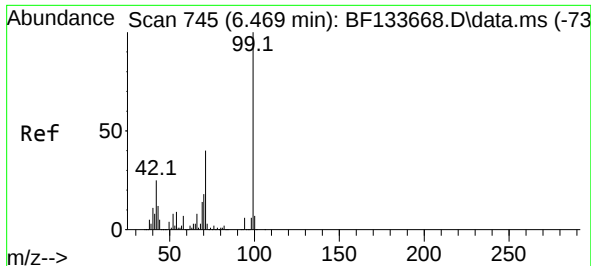
Reviewed By :Yogesh Patel 06/19/2023
Supervised By :mohammad ahmed 06/20/2023



#5
2-Fluorophenol
Concen: 64.102 ng
RT: 5.487 min Scan# 578
Delta R.T. -0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

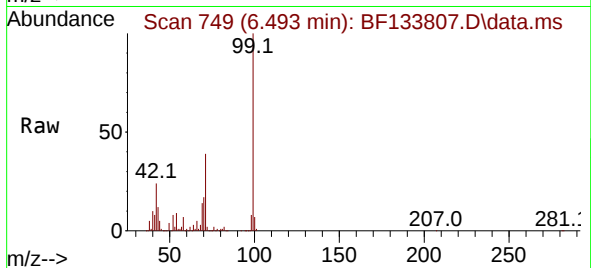
Tgt Ion:112 Resp: 344033
Ion Ratio Lower Upper
112 100
64 61.9 49.0 73.4
63 34.7 26.8 40.2





#7
Phenol-d6
Concen: 69.130 ng
RT: 6.493 min Scan# 745
Delta R.T. -0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

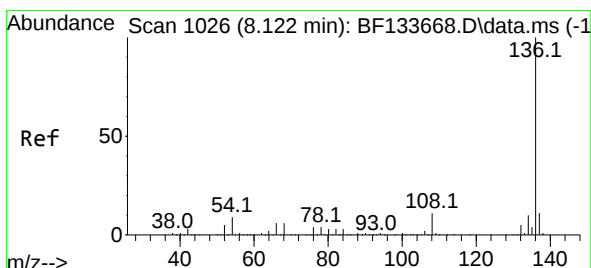
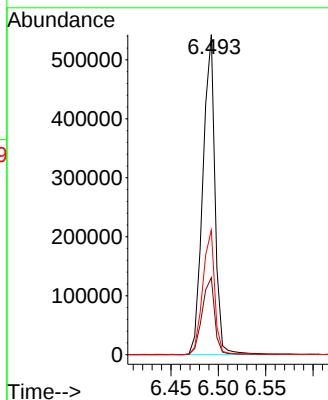
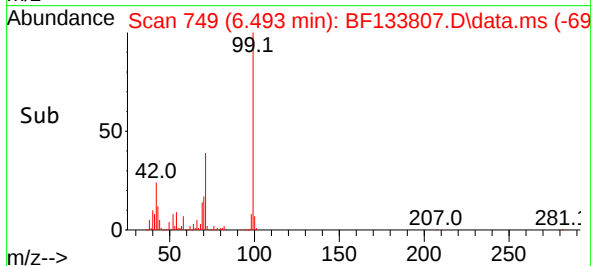
Instrument :
BNA_F
ClientSampleId :
OR-03-061323



Tgt Ion: 99 Resp: 482942
Ion Ratio Lower Upper
99 100
42 24.0 19.9 29.9
71 38.9 32.2 48.4

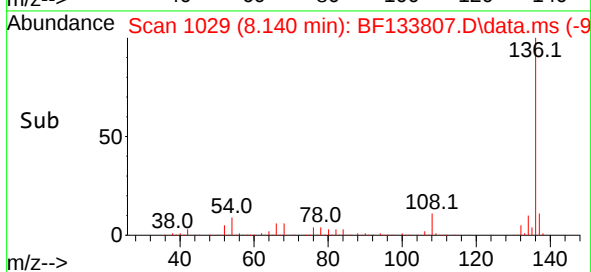
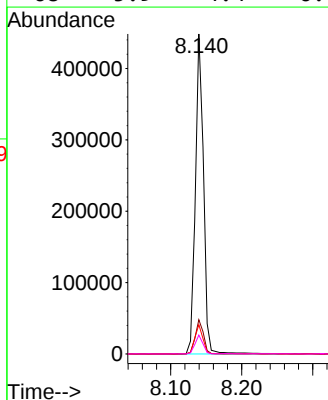
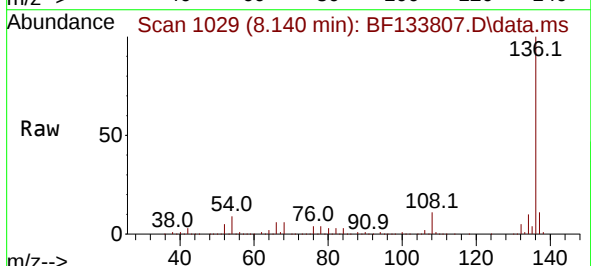
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Reviewed By :Yogesh Patel 06/19/2023
Supervised By :mohammad ahmed 06/20/2023



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.140 min Scan# 1029
Delta R.T. -0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

Tgt Ion:136 Resp: 356595
Ion Ratio Lower Upper
136 100
137 10.7 8.8 13.2
54 9.1 7.4 11.0
68 5.9 4.4 6.6





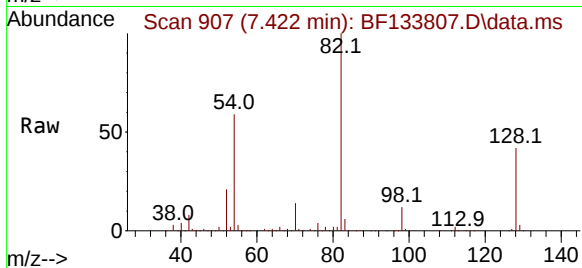
#23
Nitrobenzene-d5
Concen: 42.891 ng
RT: 7.422 min Scan# 905
Delta R.T. -0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

Instrument :

BNA_F

ClientSampleId :

OR-03-061323

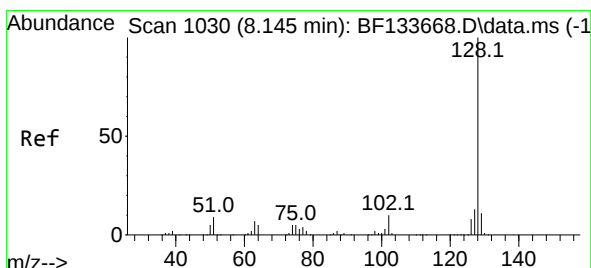
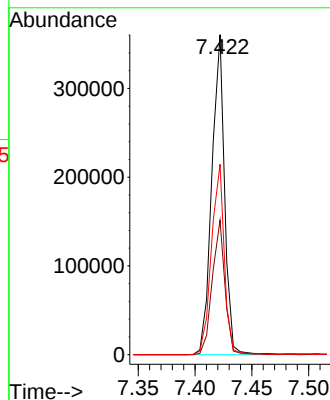
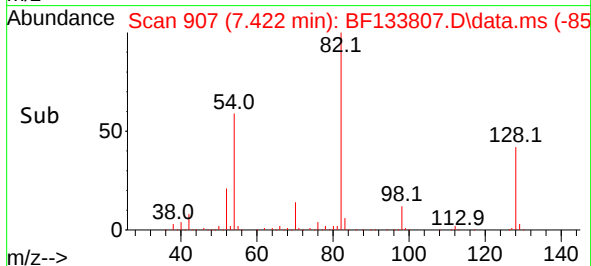


Tgt Ion: 82 Resp: 28080
Ion Ratio Lower Upper
82 100
128 42.0 34.2 51.2
54 59.5 46.5 69.7

Manual Integrations

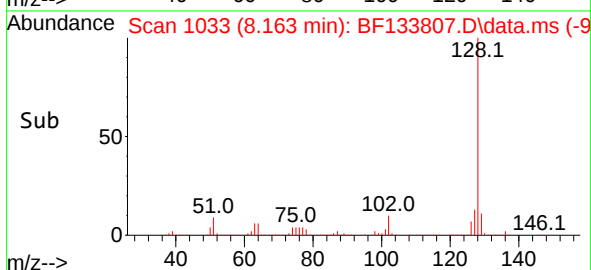
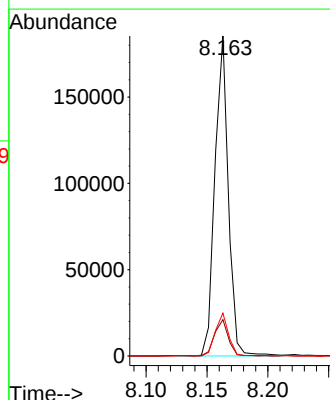
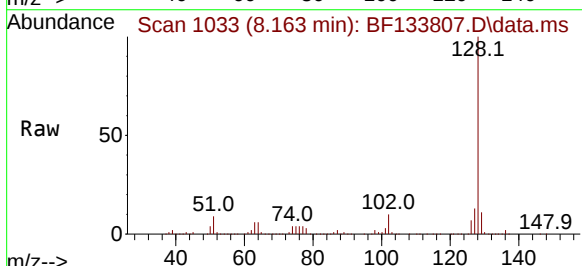
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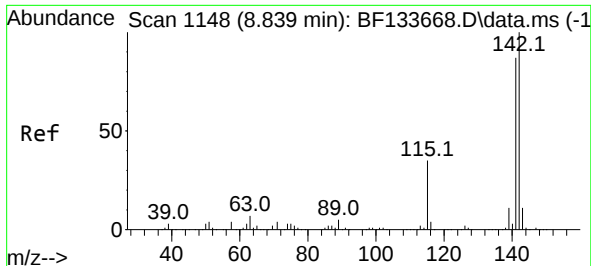
Reviewed By :Yogesh Patel 06/19/2023
Supervised By :mohammad ahmed 06/20/2023



#31
Naphthalene
Concen: 8.165 ng
RT: 8.163 min Scan# 1033
Delta R.T. -0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

Tgt Ion:128 Resp: 141850
Ion Ratio Lower Upper
128 100
129 11.4 8.9 13.3
127 13.4 10.5 15.7





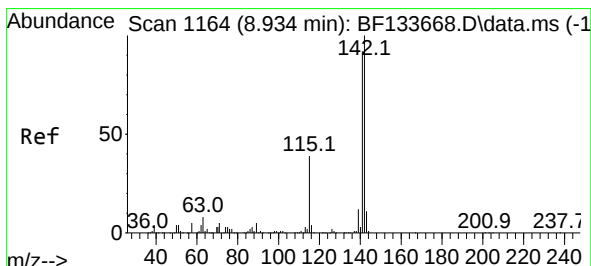
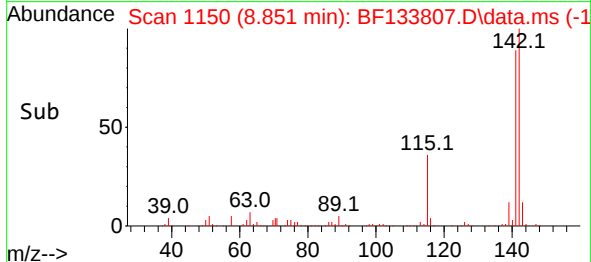
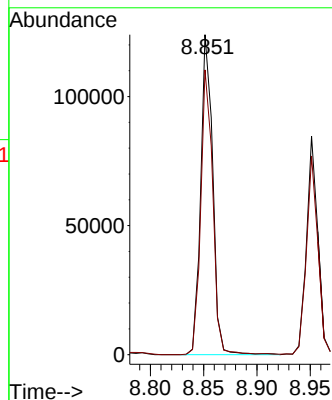
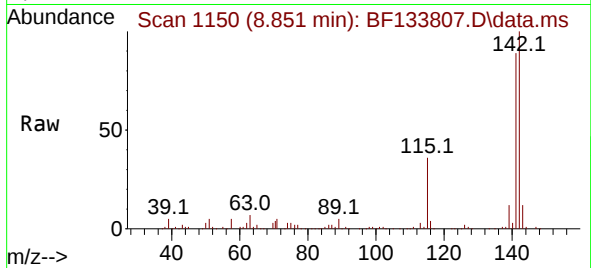
#37
2-Methylnaphthalene
Concen: 8.095 ng
RT: 8.851 min Scan# 1148
Delta R.T. -0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

Instrument :
BNA_F
ClientSampleId :
OR-03-061323

Tgt Ion:142 Resp: 97718
Ion Ratio Lower Upper
142 100
141 89.0 69.8 104.8

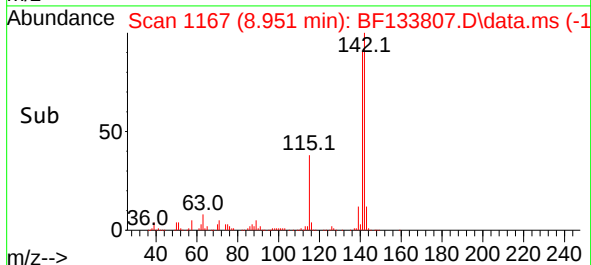
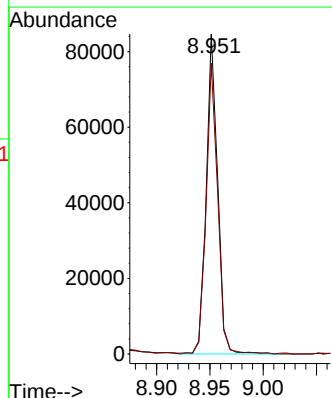
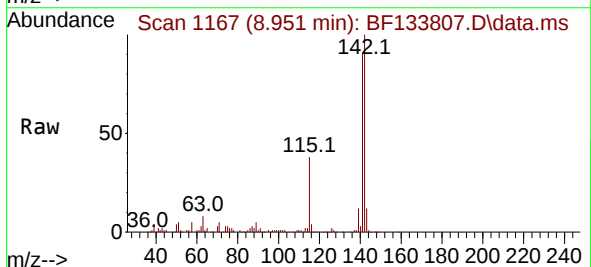
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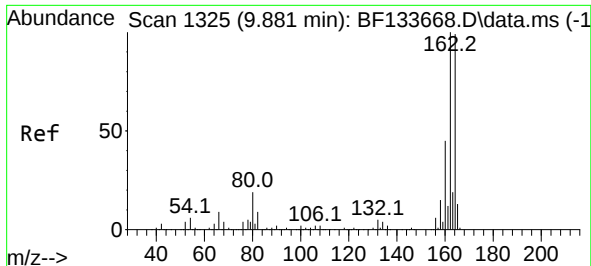
Reviewed By :Yogesh Patel 06/19/2023
Supervised By :mohammad ahmed 06/20/2023



#38
1-Methylnaphthalene
Concen: 5.687 ng
RT: 8.951 min Scan# 1167
Delta R.T. -0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

Tgt Ion:142 Resp: 63172
Ion Ratio Lower Upper
142 100
141 90.9 73.4 110.0





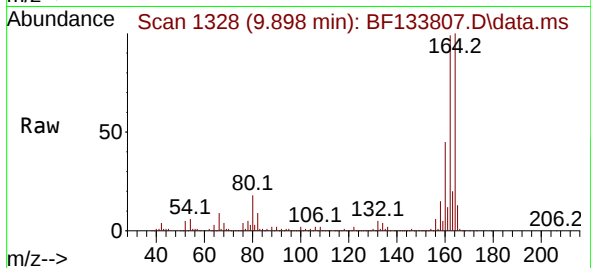
#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.898 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

Instrument :

BNA_F

ClientSampleId :

OR-03-061323



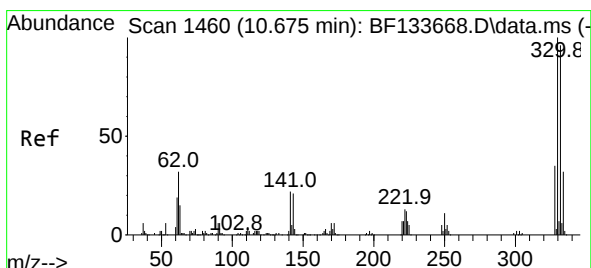
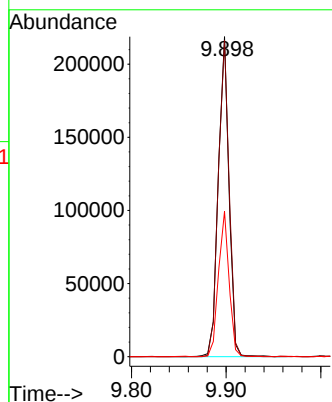
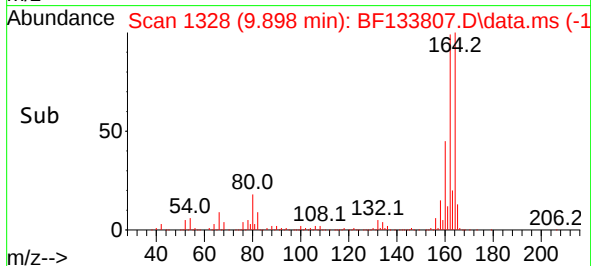
Tgt Ion:164 Resp: 17090
Ion Ratio Lower Upper
164 100
162 98.9 80.8 121.2
160 45.4 36.7 55.1

Manual Integrations

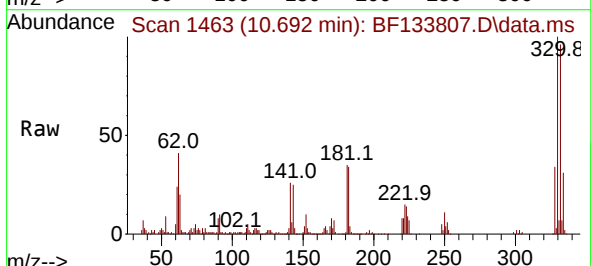
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Reviewed By :Yogesh Patel 06/19/2023

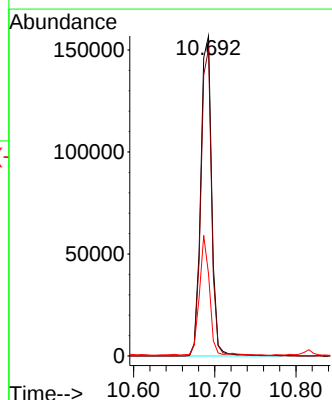
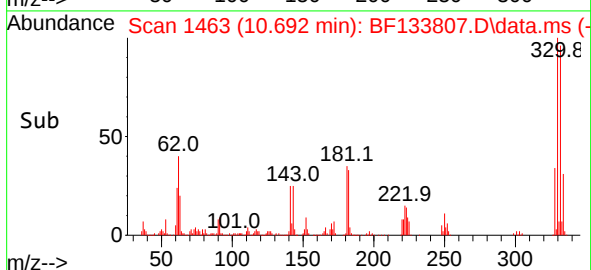
Supervised By :mohammad ahmed 06/20/2023

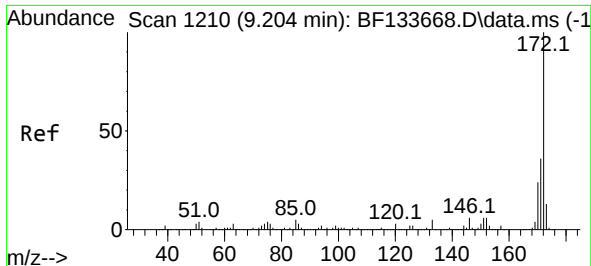


#42
2,4,6-Tribromophenol
Concen: 68.106 ng
RT: 10.692 min Scan# 1463
Delta R.T. 0.000 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20



Tgt Ion:330 Resp: 147339
Ion Ratio Lower Upper
330 100
332 93.5 77.2 115.8
141 33.6 24.9 37.3





#45

2-Fluorobiphenyl

Concen: 53.139 ng

RT: 9.216 min Scan# 1212

Delta R.T. -0.006 min

Lab File: BF133807.D

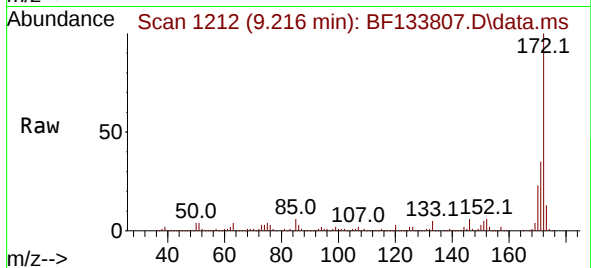
Acq: 16 Jun 2023 15:20

Instrument :

BNA_F

ClientSampleId :

OR-03-061323



Tgt Ion:172 Resp: 63888

Ion Ratio Lower Upper

172 100

171 34.8 28.6 43.0

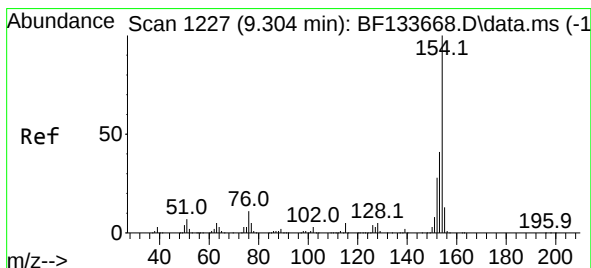
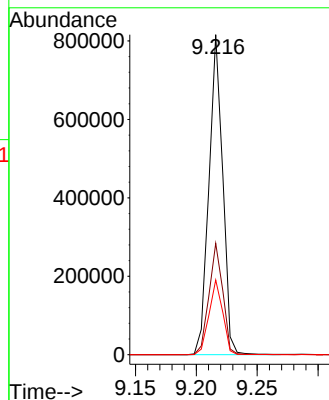
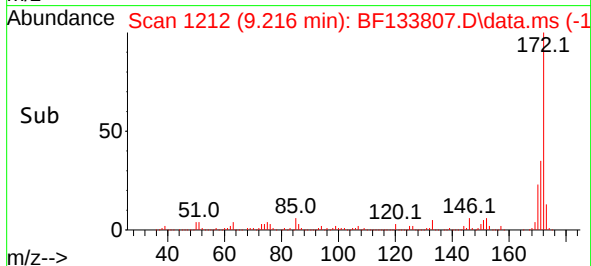
170 23.4 19.1 28.7

Manual Integrations

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Reviewed By :Yogesh Patel 06/19/2023

Supervised By :mohammad ahmed 06/20/2023



#46

1,1'-Biphenyl

Concen: 2.584 ng

RT: 9.316 min Scan# 1229

Delta R.T. -0.006 min

Lab File: BF133807.D

Acq: 16 Jun 2023 15:20

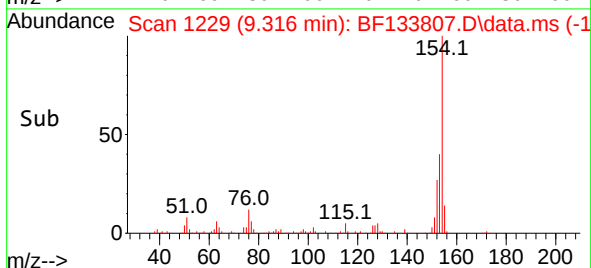
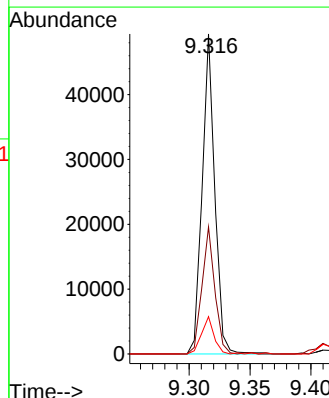
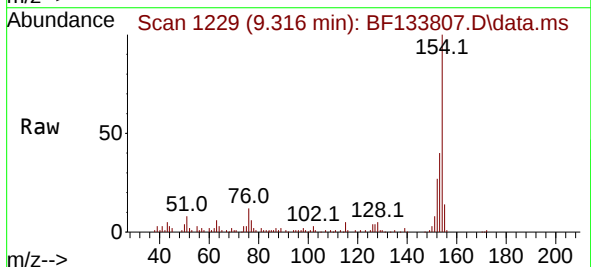
Tgt Ion:154 Resp: 35612

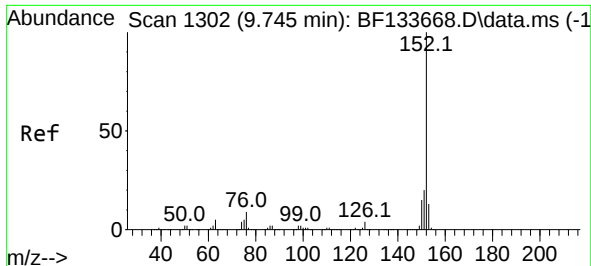
Ion Ratio Lower Upper

154 100

153 39.7 20.6 60.6

76 11.6 0.0 31.0





#49

Acenaphthylene

Concen: 2.355 ng

RT: 9.757 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF133807.D

Acq: 16 Jun 2023 15:20

Instrument :

BNA_F

ClientSampleId :

OR-03-061323

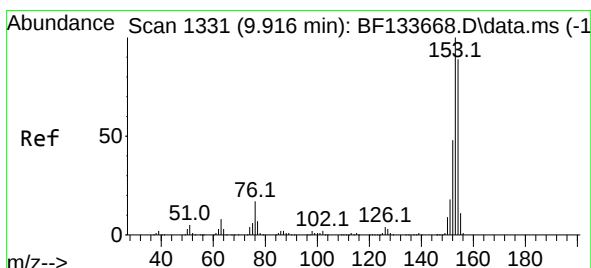
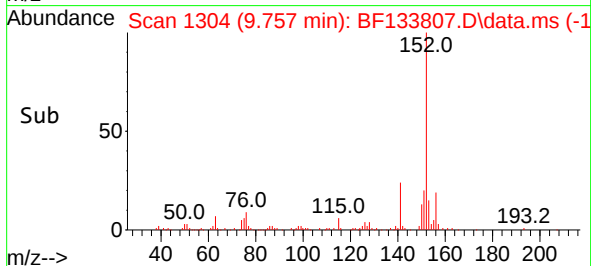
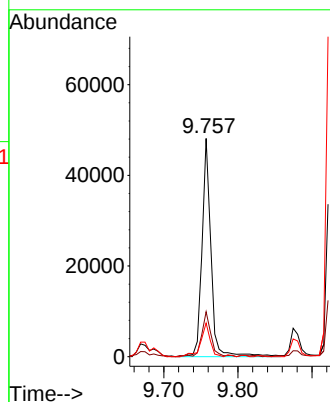
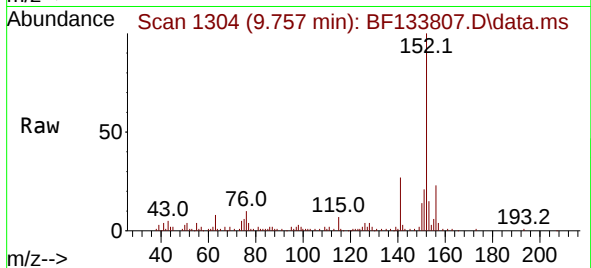
Tgt Ion:152	Resp:	4052
Ion Ratio	Lower	Upper
152	100	
151	20.6	16.2 24.4
153	15.4	10.4 15.6

Manual Integrations

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Reviewed By :Yogesh Patel 06/19/2023

Supervised By :mohammad ahmed 06/20/2023



#52

Acenaphthene

Concen: 16.116 ng

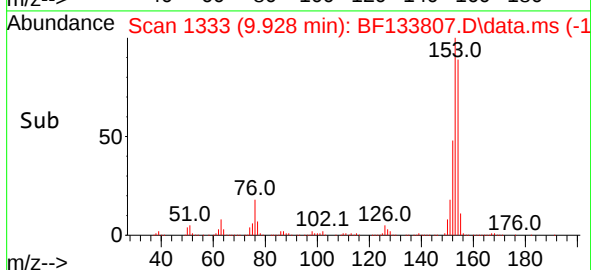
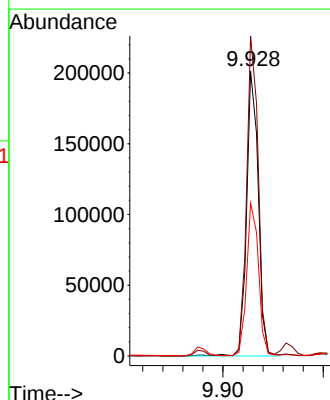
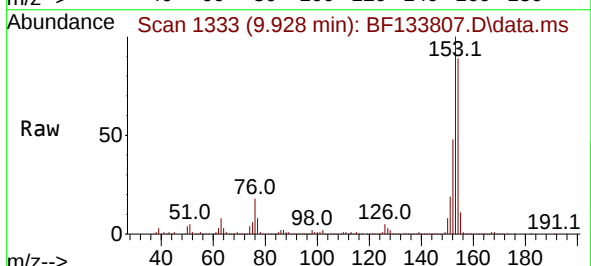
RT: 9.928 min Scan# 1333

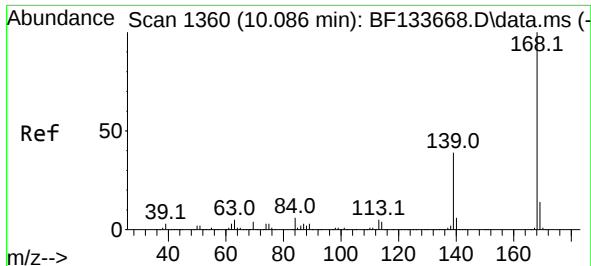
Delta R.T. -0.012 min

Lab File: BF133807.D

Acq: 16 Jun 2023 15:20

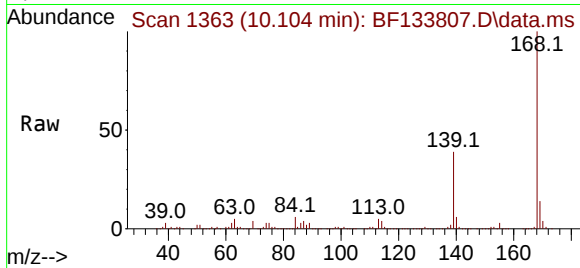
Tgt Ion:154	Resp:	162341
Ion Ratio	Lower	Upper
154	100	
153	112.3	89.8 134.8
152	53.7	43.4 65.2





#55
Dibenzenofuran
Concen: 12.908 ng
RT: 10.104 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

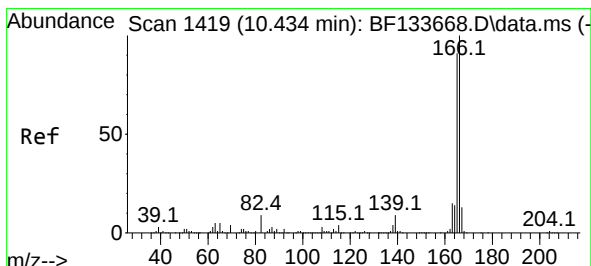
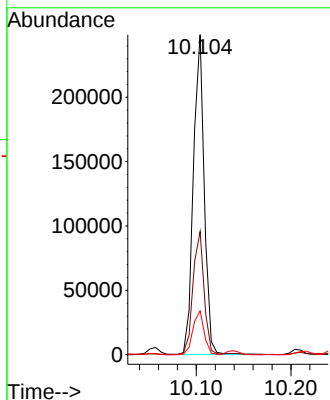
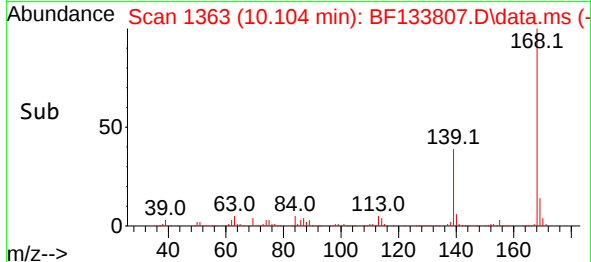
Instrument :
BNA_F
ClientSampleId :
OR-03-061323



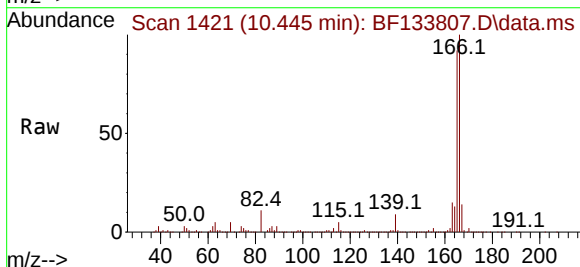
Tgt Ion:168 Resp: 198400
Ion Ratio Lower Upper
168 100
139 38.5 30.9 46.3
169 13.7 10.9 16.3

Manual Integrations
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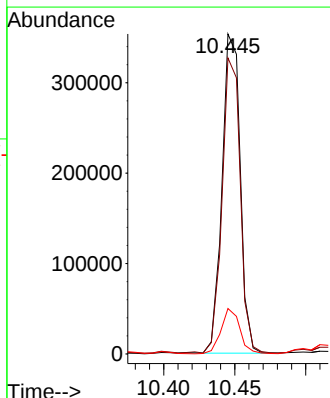
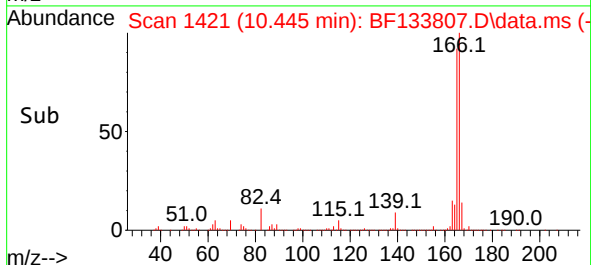
Reviewed By :Yogesh Patel 06/19/2023
Supervised By :mohammad ahmed 06/20/2023

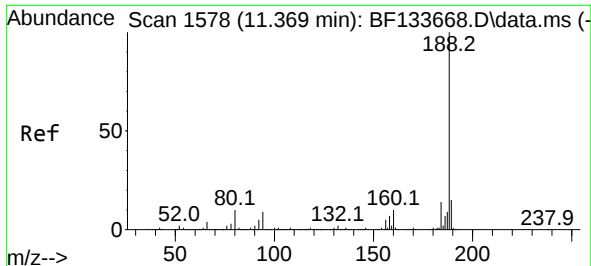


#58
Fluorene
Concen: 26.656 ng
RT: 10.445 min Scan# 1421
Delta R.T. -0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20



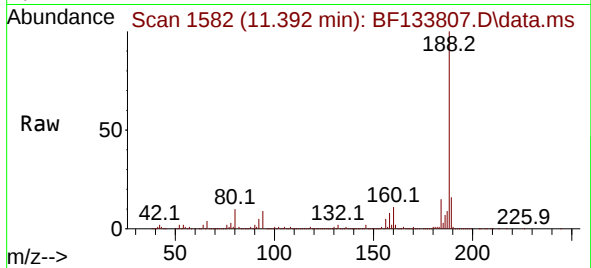
Tgt Ion:166 Resp: 313317
Ion Ratio Lower Upper
166 100
165 92.5 73.1 109.7
167 14.2 10.5 15.7





#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.392 min Scan# 1582
Delta R.T. 0.000 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

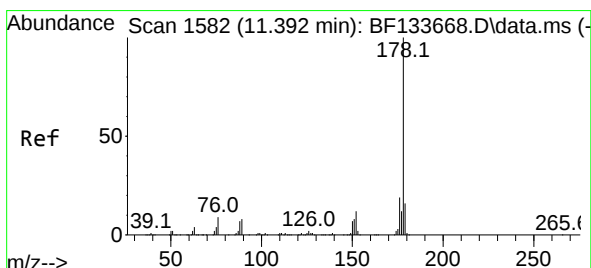
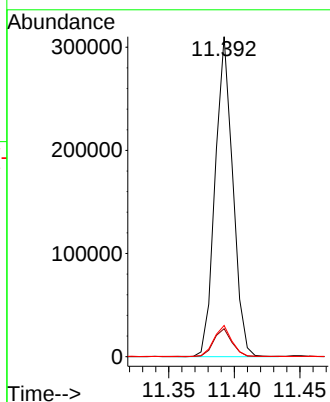
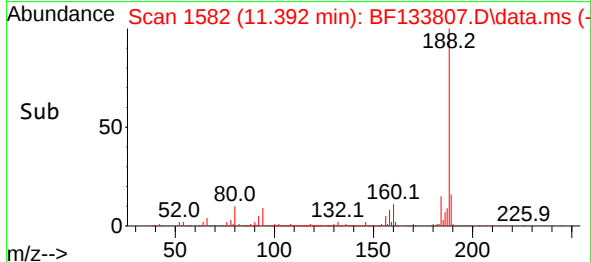
Instrument :
BNA_F
ClientSampleId :
OR-03-061323



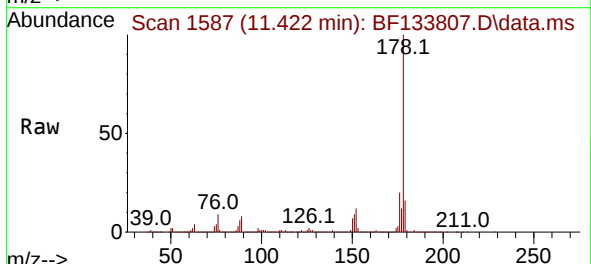
Tgt Ion:188 Resp: 290364
Ion Ratio Lower Upper
188 100
94 8.8 6.8 10.2
80 9.8 7.8 11.6

Manual Integrations
APPROVED

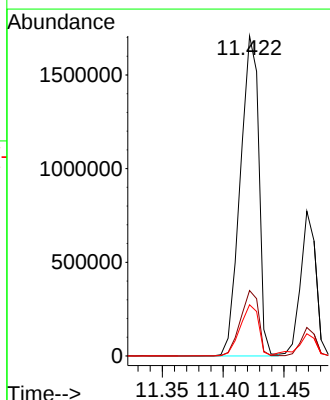
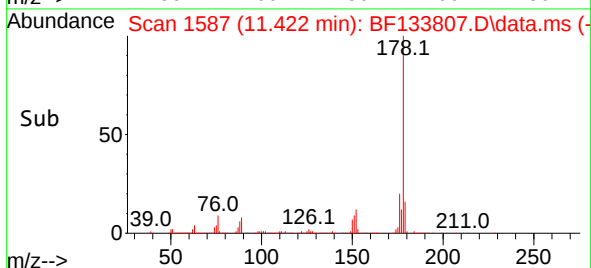
Reviewed By :Yogesh Patel 06/19/2023
Supervised By :mohammad ahmed 06/20/2023

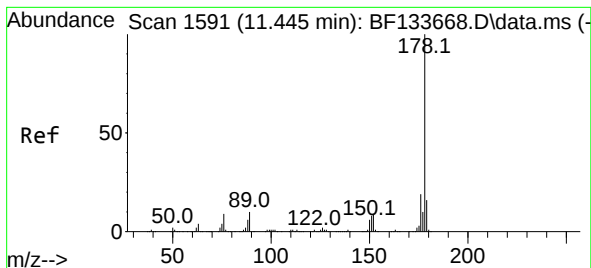


#71
Phenanthrene
Concen: 123.029 ng
RT: 11.422 min Scan# 1587
Delta R.T. 0.000 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20



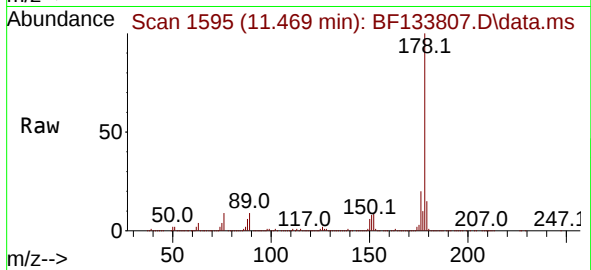
Tgt Ion:178 Resp: 1812412
Ion Ratio Lower Upper
178 100
176 20.4 15.6 23.4
179 16.0 12.4 18.6





#72
 Anthracene
 Concen: 42.792 ng
 RT: 11.469 min Scan# 1146
 Delta R.T. 0.000 min
 Lab File: BF133807.D
 Acq: 16 Jun 2023 15:20

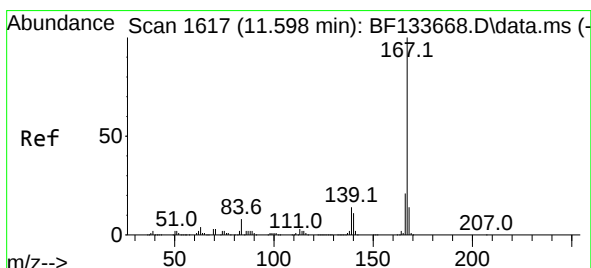
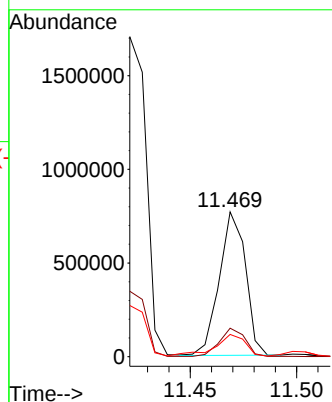
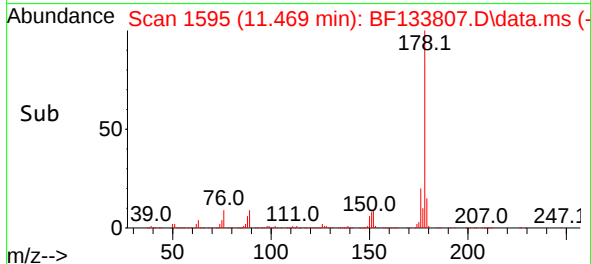
Instrument :
 BNA_F
 ClientSampleId :
 OR-03-061323



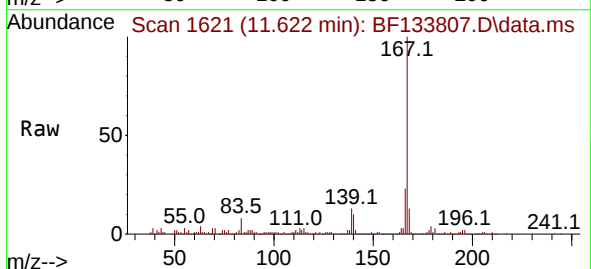
Tgt Ion:178 Resp: 657300
 Ion Ratio Lower Upper
 178 100
 176 19.7 15.1 22.7
 179 15.4 12.6 18.8

Manual Integrations
 APPROVED

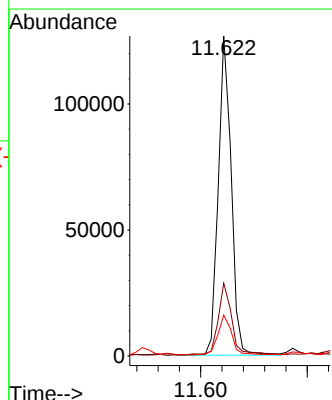
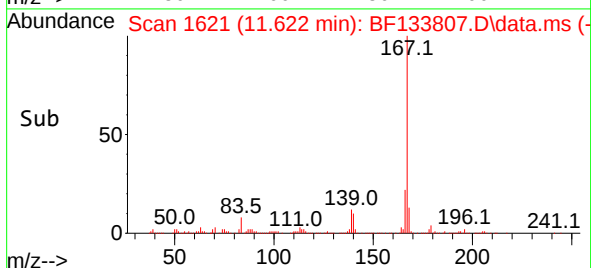
Reviewed By :Yogesh Patel 06/19/2023
 Supervised By :mohammad ahmed 06/20/2023

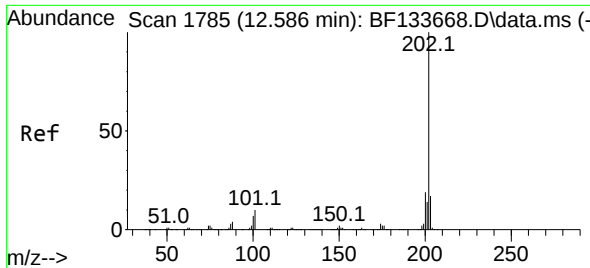


#73
 Carbazole
 Concen: 7.436 ng
 RT: 11.622 min Scan# 1621
 Delta R.T. -0.006 min
 Lab File: BF133807.D
 Acq: 16 Jun 2023 15:20



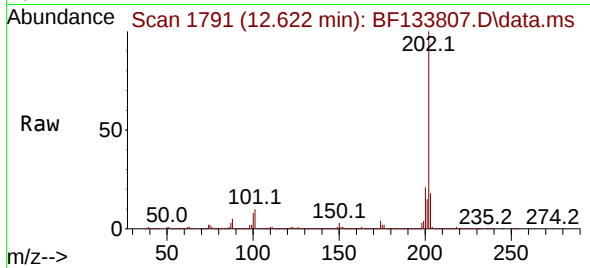
Tgt Ion:167 Resp: 106387
 Ion Ratio Lower Upper
 167 100
 166 22.8 17.0 25.6
 139 12.8 11.2 16.8





#75
Fluoranthene
Concen: 134.564 ng
RT: 12.622 min Scan# 1791
Delta R.T. 0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

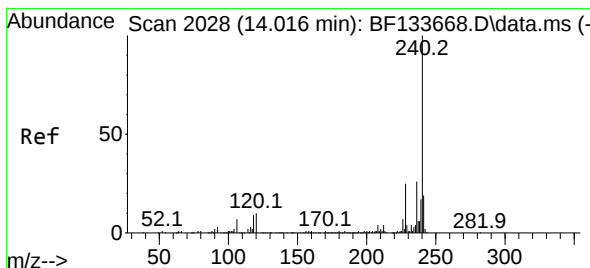
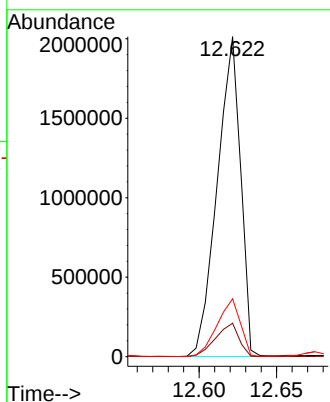
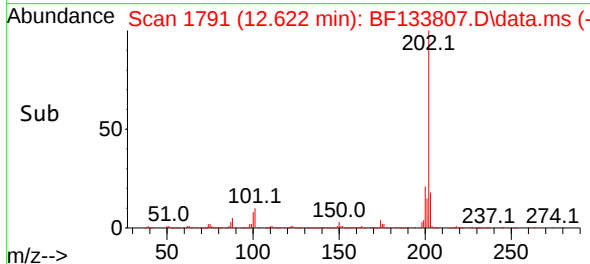
Instrument :
BNA_F
ClientSampleId :
OR-03-061323



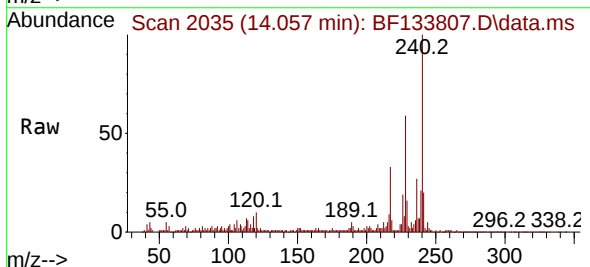
Tgt Ion:202 Resp: 2105110
Ion Ratio Lower Upper
202 100
101 10.5 0.0 29.6
203 18.1 0.0 37.4

Manual Integrations
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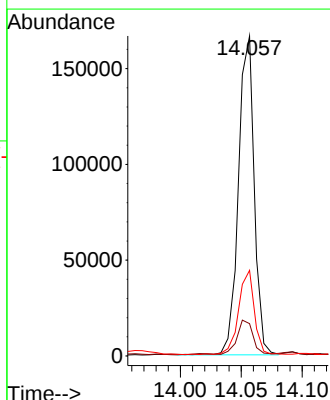
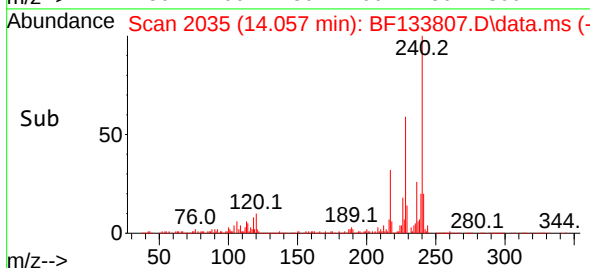
Reviewed By :Yogesh Patel 06/19/2023
Supervised By :mohammad ahmed 06/20/2023

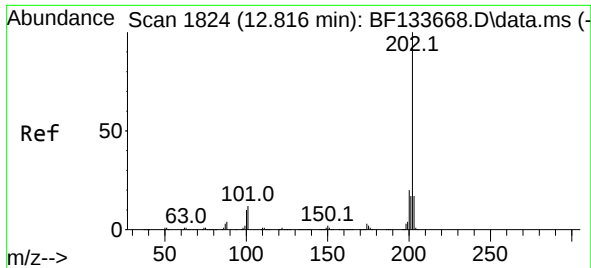


#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.057 min Scan# 2035
Delta R.T. 0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20



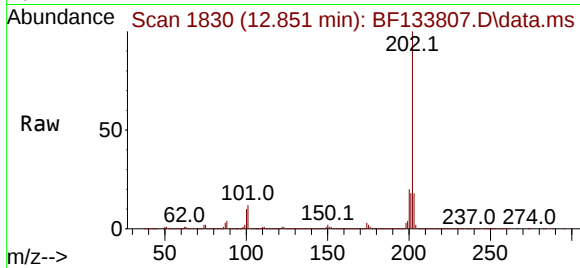
Tgt Ion:240 Resp: 150391
Ion Ratio Lower Upper
240 100
120 10.1 8.1 12.1
236 26.7 20.5 30.7





#78
Pyrene
Concen: 133.419 ng
RT: 12.851 min Scan# 1830
Delta R.T. 0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

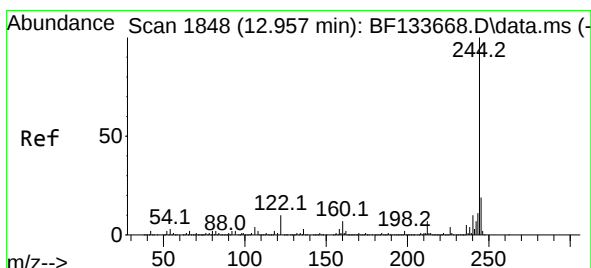
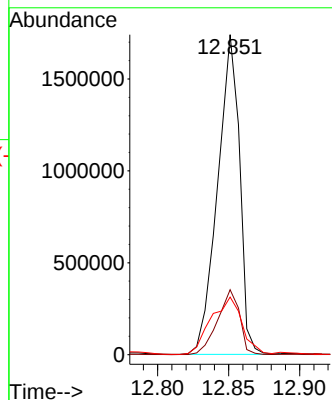
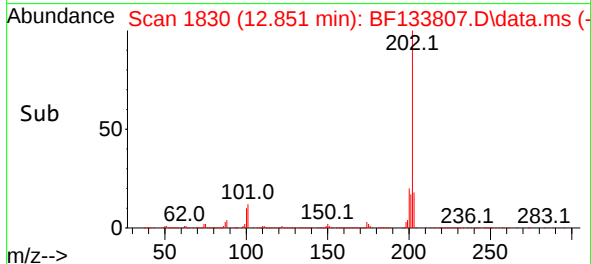
Instrument :
BNA_F
ClientSampleId :
OR-03-061323



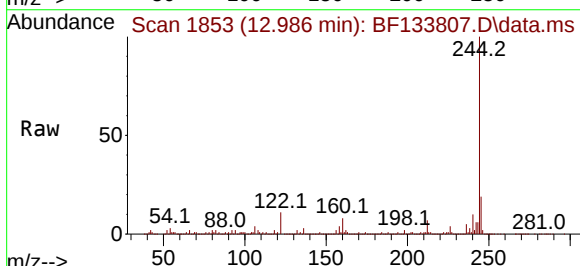
Tgt Ion:202 Resp: 1869130
Ion Ratio Lower Upper
202 100
200 20.3 16.2 24.2
203 18.0 13.9 20.9

Manual Integrations
APPROVED

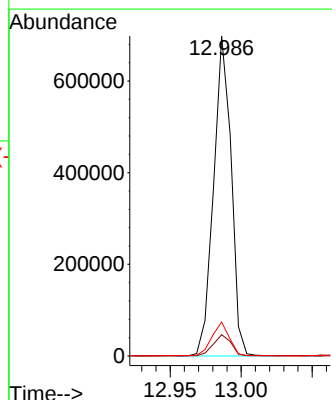
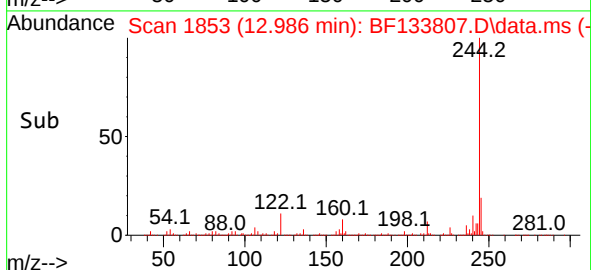
Reviewed By :Yogesh Patel 06/19/2023
Supervised By :mohammad ahmed 06/20/2023

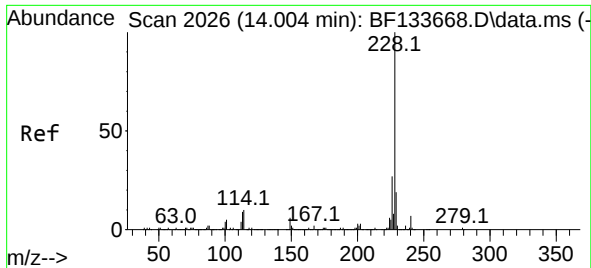


#79
Terphenyl-d14
Concen: 61.723 ng
RT: 12.986 min Scan# 1853
Delta R.T. -0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20



Tgt Ion:244 Resp: 599903
Ion Ratio Lower Upper
244 100
212 6.7 5.4 8.2
122 10.6 8.1 12.1





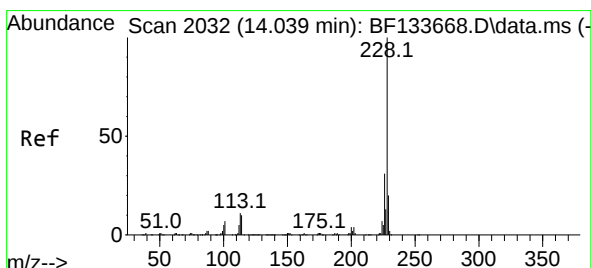
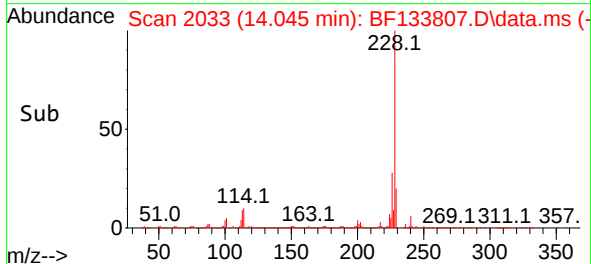
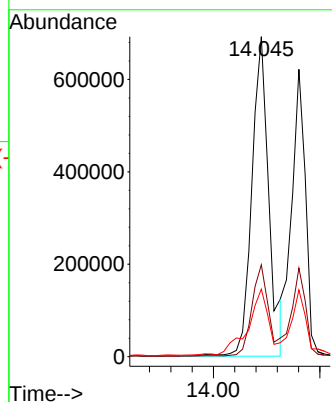
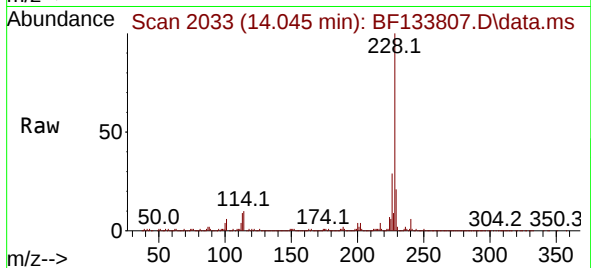
#81
Benzo(a)anthracene
Concen: 73.344 ng
RT: 14.045 min Scan# 2026
Delta R.T. 0.000 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

Instrument :
BNA_F
ClientSampleId :
OR-03-061323

Tgt Ion:228 Resp: 76297
Ion Ratio Lower Upper
228 100
226 28.7 21.7 32.5
229 21.1 15.4 23.2

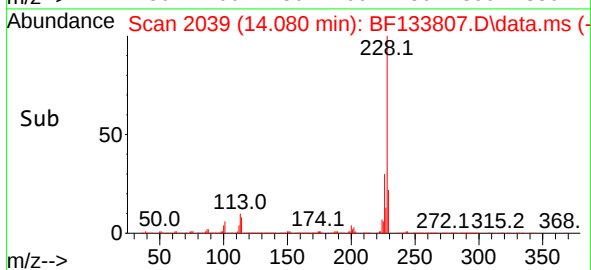
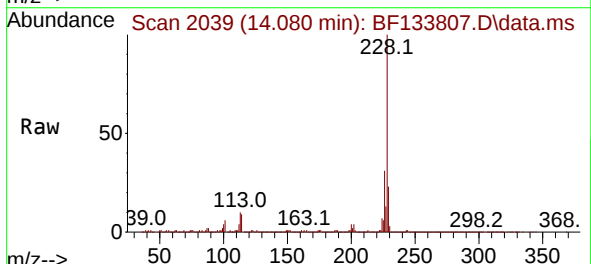
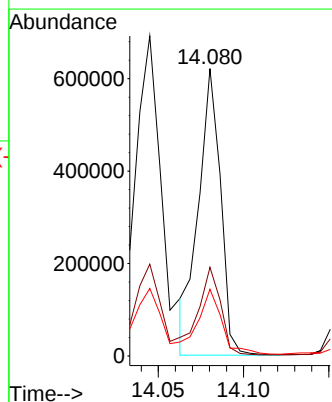
Manual Integrations
APPROVED

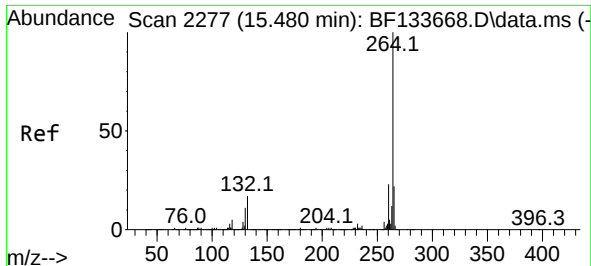
Reviewed By :Yogesh Patel 06/19/2023
Supervised By :mohammad ahmed 06/20/2023



#83
Chrysene
Concen: 56.990 ng
RT: 14.080 min Scan# 2039
Delta R.T. 0.000 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

Tgt Ion:228 Resp: 560726
Ion Ratio Lower Upper
228 100
226 30.9 25.0 37.6
229 23.2 15.8 23.8





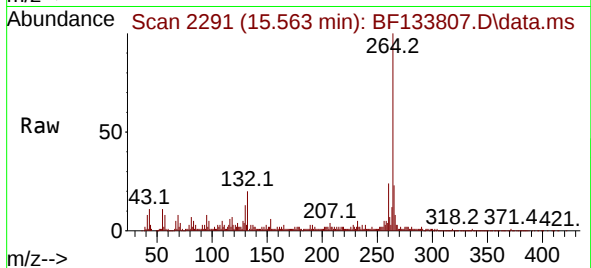
#86
Perylene-d12
Concen: 20.000 ng
RT: 15.563 min Scan# 21
Delta R.T. 0.000 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

Instrument :

BNA_F

ClientSampleId :

OR-03-061323

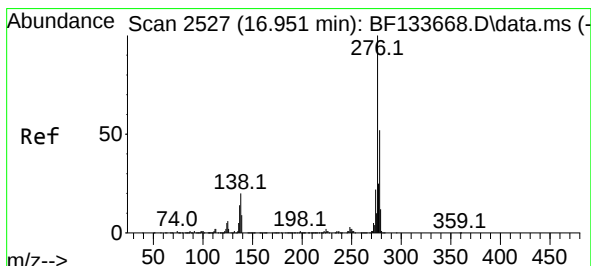
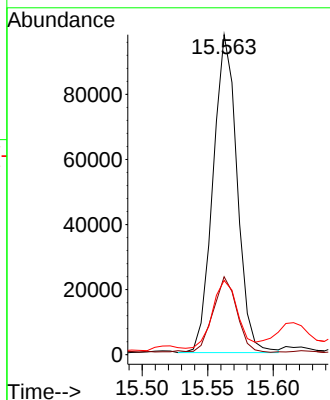
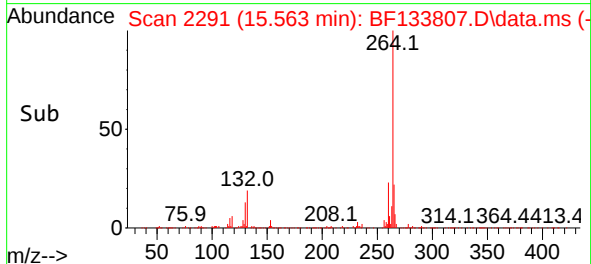


Tgt Ion:264 Resp: 12492
Ion Ratio Lower Upper
264 100
260 24.4 18.2 27.2
265 23.2 17.8 26.6

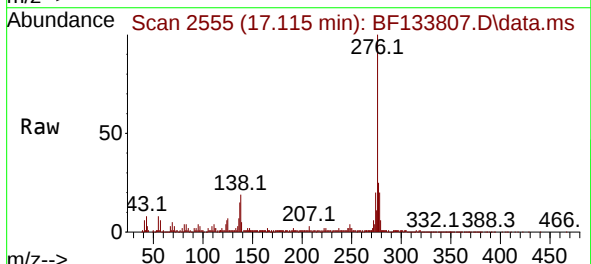
Manual Integrations

APPROVED

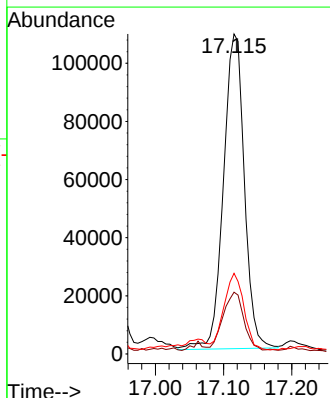
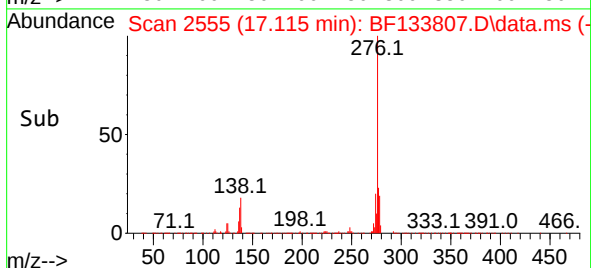
Reviewed By :Yogesh Patel 06/19/2023
Supervised By :mohammad ahmed 06/20/2023

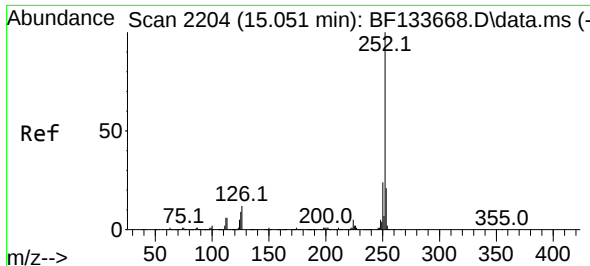


#87
Indeno(1,2,3-cd)pyrene
Concen: 26.964 ng
RT: 17.115 min Scan# 2555
Delta R.T. 0.000 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20



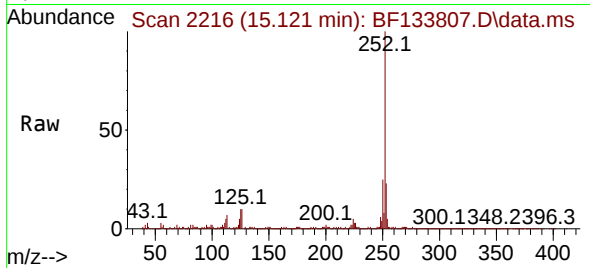
Tgt Ion:276 Resp: 231741
Ion Ratio Lower Upper
276 100
138 18.2 17.9 26.9
277 23.2 20.3 30.5





#88
Benzo(b)fluoranthene
Concen: 81.038 ng m
RT: 15.121 min Scan# 211
Delta R.T. 0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

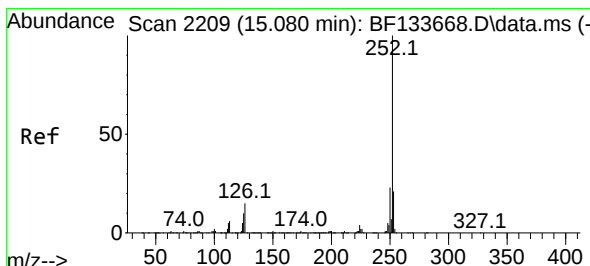
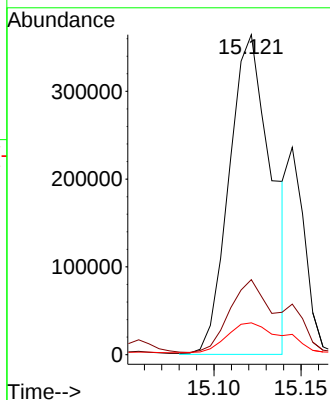
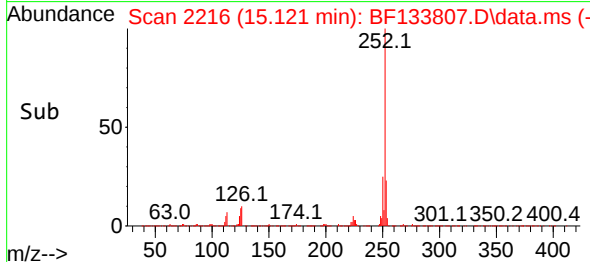
Instrument :
BNA_F
ClientSampleId :
OR-03-061323



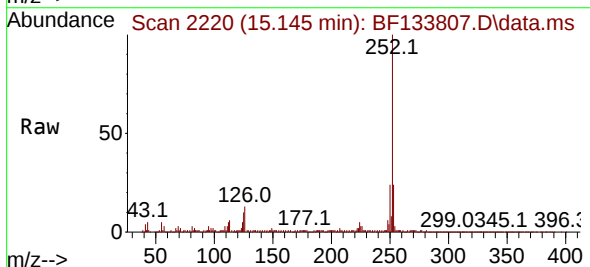
Tgt Ion:252 Resp: 614962
Ion Ratio Lower Upper
252 100
253 23.4 17.0 25.6
125 9.9 7.3 10.9

Manual Integrations
APPROVED

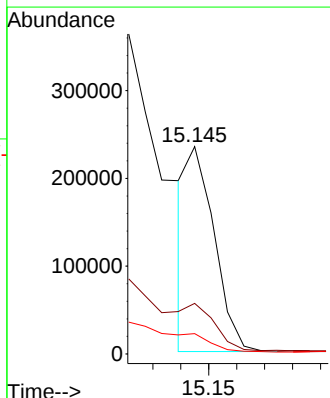
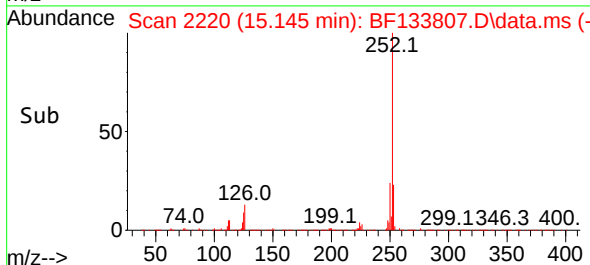
Reviewed By :Yogesh Patel 06/19/2023
Supervised By :mohammad ahmed 06/20/2023

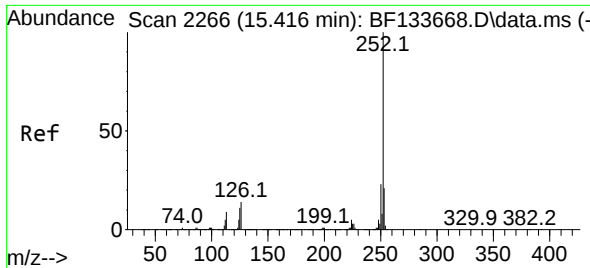


#89
Benzo(k)fluoranthene
Concen: 21.199 ng m
RT: 15.145 min Scan# 2220
Delta R.T. 0.000 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20



Tgt Ion:252 Resp: 156707
Ion Ratio Lower Upper
252 100
253 24.4 17.0 25.4
125 9.8 7.8 11.6





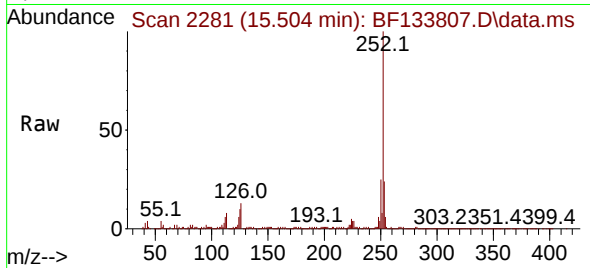
#90
Benzo(a)pyrene
Concen: 59.880 ng
RT: 15.504 min Scan# 21
Delta R.T. 0.006 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

Instrument :

BNA_F

ClientSampleId :

OR-03-061323

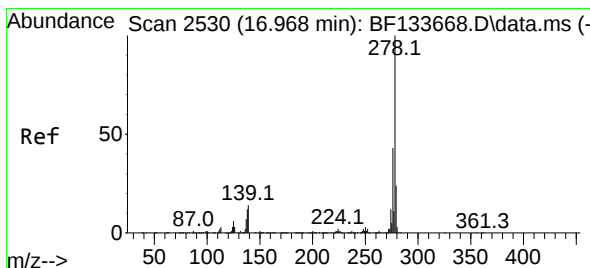
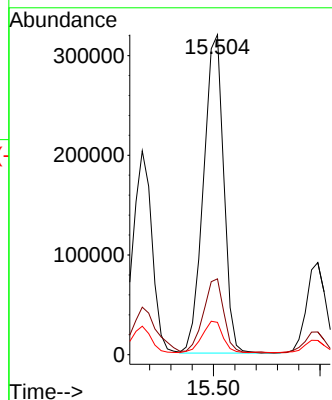
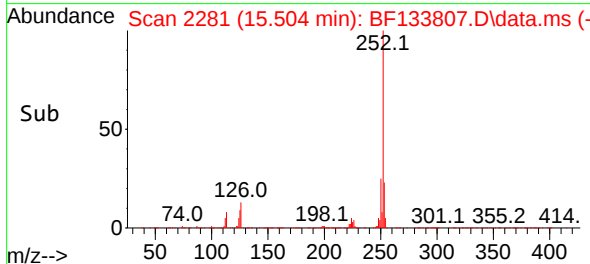


Tgt Ion:252 Resp: 42172
Ion Ratio Lower Upper
252 100
253 23.7 17.1 25.7
125 10.1 8.6 13.0

Manual Integrations

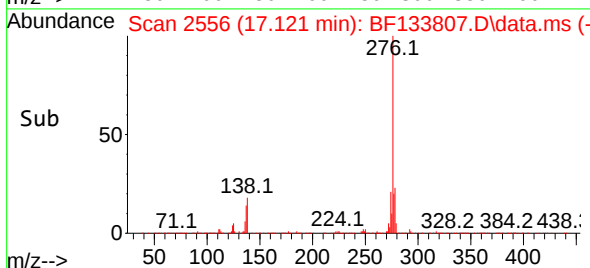
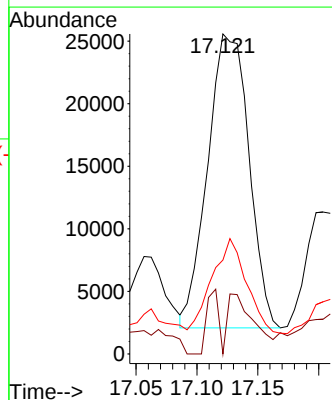
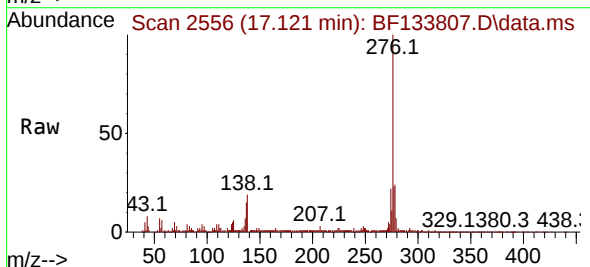
APPROVED

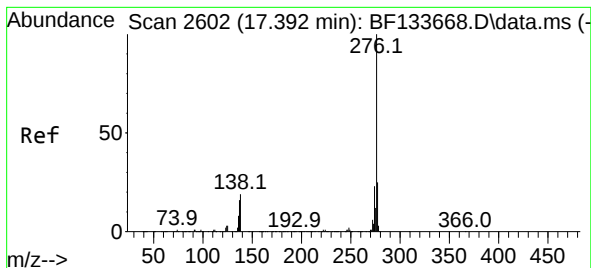
Reviewed By :Yogesh Patel 06/19/2023
Supervised By :mohammad ahmed 06/20/2023



#91
Dibenzo(a,h)anthracene
Concen: 7.786 ng
RT: 17.121 min Scan# 2556
Delta R.T. -0.018 min
Lab File: BF133807.D
Acq: 16 Jun 2023 15:20

Tgt Ion:278 Resp: 55398
Ion Ratio Lower Upper
278 100
139 0.0 11.4 17.2#
279 29.4 19.0 28.4#





#92

Benzo(g,h,i)perylene

Concen: 30.610 ng

RT: 17.586 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF133807.D

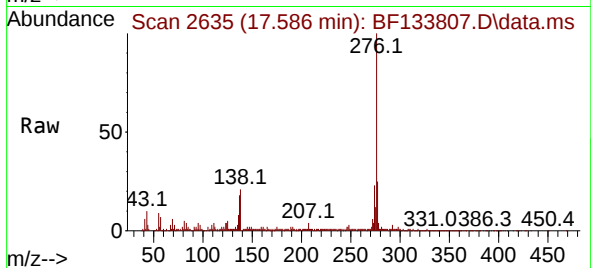
Acq: 16 Jun 2023 15:20

Instrument :

BNA_F

ClientSampleId :

OR-03-061323



Tgt Ion:276 Resp: 21593

Ion Ratio Lower Upper

276 100

277 25.1 19.8 29.8

138 21.1 15.0 22.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 06/19/2023

Supervised By :mohammad ahmed 06/20/2023

