

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101823\
 Data File : BF135868.D
 Acq On : 19 Oct 2023 01:59
 Operator : CG\JU
 Sample : 04767-03
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 Q-3(10-15)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/19/2023
 Supervised By :mohammad ahmed 10/20/2023

Quant Time: Oct 19 04:43:53 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF101323.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 17 01:22:00 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.740	152	80403	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	290758	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	133483	20.000	ng	-0.01
64) Phenanthrene-d10	11.275	188	204470	20.000	ng	0.00
76) Chrysene-d12	13.945	240	157825	20.000	ng	0.00
86) Perylene-d12	15.422	264	147773	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	461724	92.327	ng	0.00
7) Phenol-d6	6.393	99	594223	95.231	ng	0.00
23) Nitrobenzene-d5	7.305	82	371405	70.254	ng	-0.01
42) 2,4,6-Tribromophenol	10.575	330	116008	90.569	ng	-0.01
45) 2-Fluorobiphenyl	9.093	172	639281	74.880	ng	-0.01
79) Terphenyl-d14	12.869	244	528205	61.979	ng	-0.01
Target Compounds						
						Qvalue
31) Naphthalene	8.040	128	171507	12.093	ng	99
37) 2-Methylnaphthalene	8.734	142	36065	3.860	ng	94
38) 1-Methylnaphthalene	8.828	142	58454	6.783	ng	97
49) Acenaphthylene	9.640	152	231809	19.008	ng	99
52) Acenaphthene	9.804	154	55352	7.573	ng	100
55) Dibenzofuran	9.981	168	139446	12.644	ng	96
58) Fluorene	10.328	166	100938	11.690	ng	98
71) Phenanthrene	11.304	178	1239612	126.555	ng	99
72) Anthracene	11.351	178	496739	48.940	ng	100
73) Carbazole	11.516	167	62256	6.577	ng	99
75) Fluoranthene	12.504	202	1443817	132.810	ng	99
78) Pyrene	12.734	202	1359202	108.375	ng	99
81) Benzo(a)anthracene	13.934	228	864019	83.347	ng	96
83) Chrysene	13.975	228	669631	66.691	ng	97
87) Indeno(1,2,3-cd)pyrene	16.927	276	196200	24.367	ng	# 93
88) Benzo(b)fluoranthene	14.998	252	658154m	79.580	ng	
89) Benzo(k)fluoranthene	15.022	252	245505m	30.576	ng	
90) Benzo(a)pyrene	15.363	252	491476	63.197	ng	98
91) Dibenzo(a,h)anthracene	16.927	278	56094	8.498	ng	# 87
92) Benzo(g,h,i)perylene	17.386	276	174863	25.790	ng	97

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

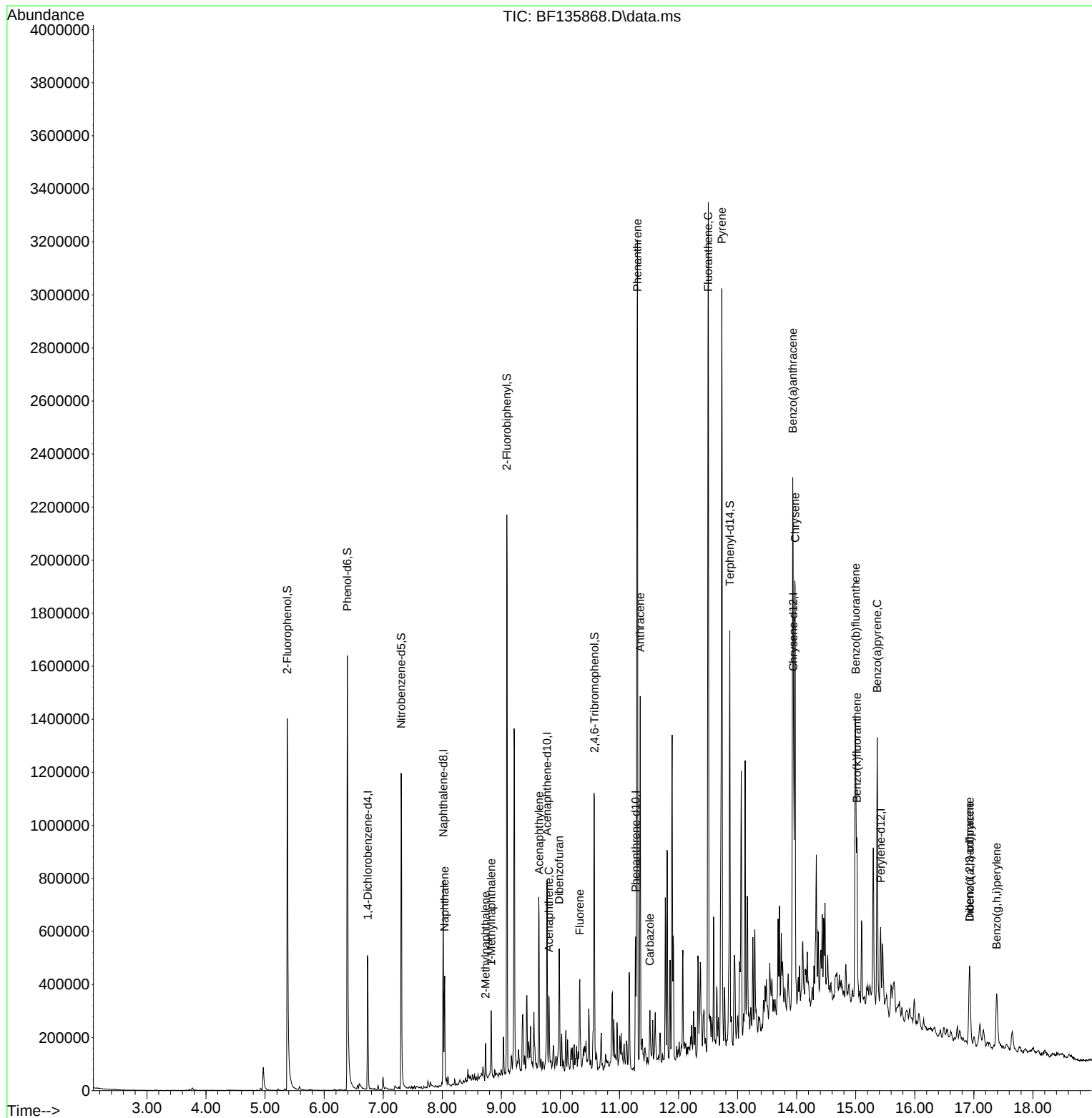
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101823\
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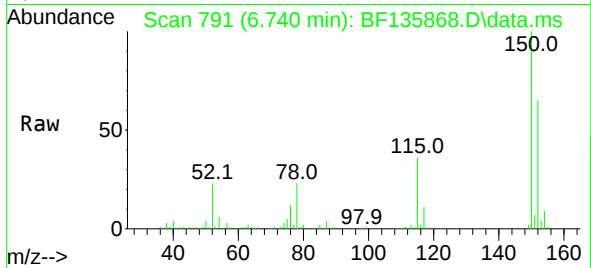
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.740 min Scan# 791
Delta R.T. -0.006 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59

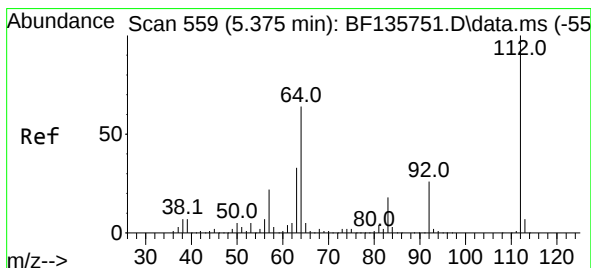
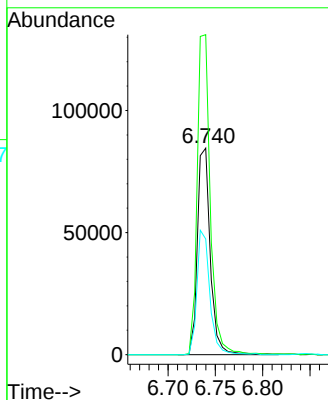
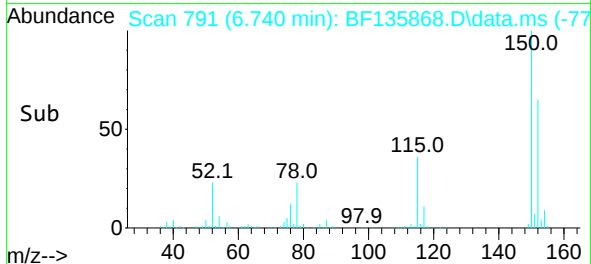
Instrument :
BNA_F
ClientSampleId :
Q-3(10-15)



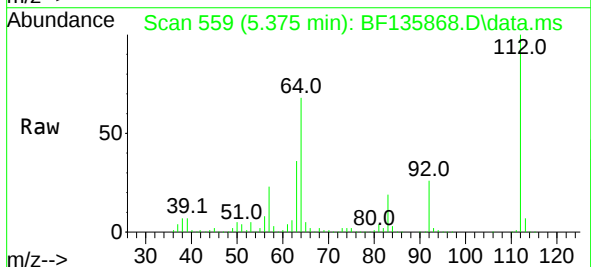
Tgt Ion:152 Resp: 80400
Ion Ratio Lower Upper
152 100
150 154.9 124.5 186.7
115 56.0 49.0 73.4

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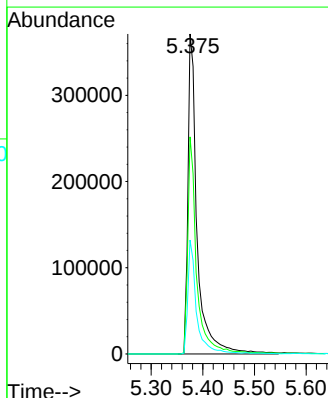
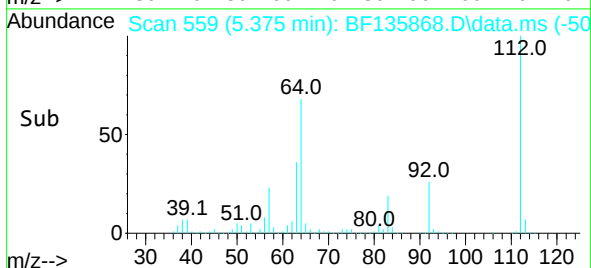
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023

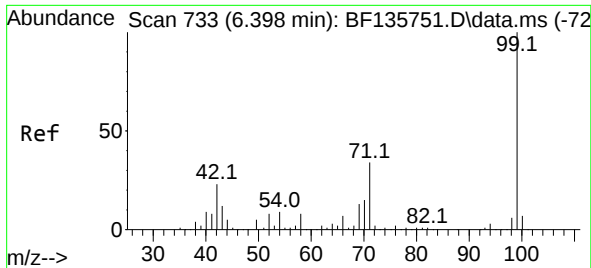


#5
2-Fluorophenol
Concen: 92.327 ng
RT: 5.375 min Scan# 559
Delta R.T. 0.000 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59



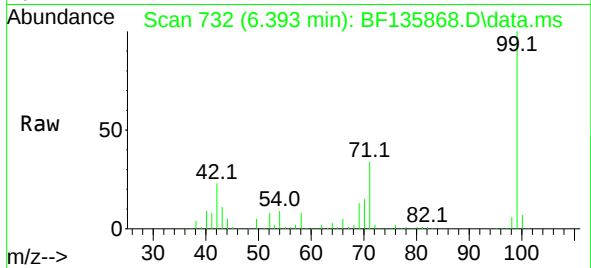
Tgt Ion:112 Resp: 461724
Ion Ratio Lower Upper
112 100
64 67.9 51.2 76.8
63 35.6 26.1 39.1





#7
Phenol-d6
Concen: 95.231 ng
RT: 6.393 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59

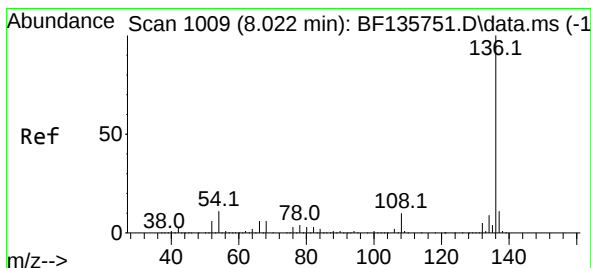
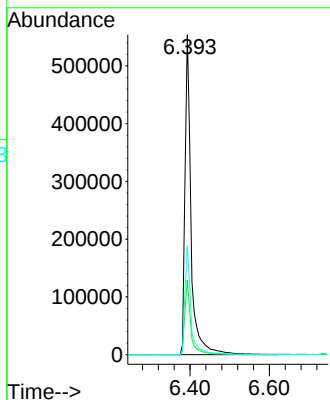
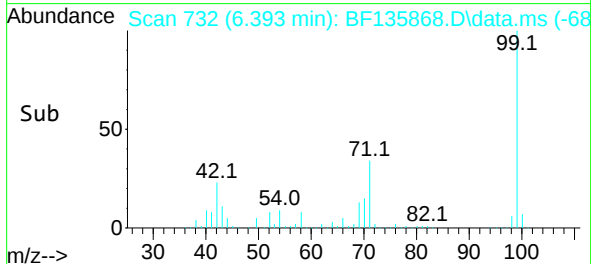
Instrument :
BNA_F
ClientSampleId :
Q-3(10-15)



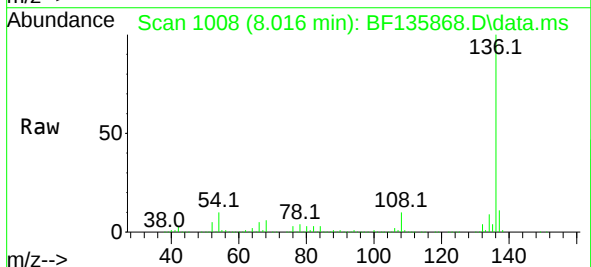
Tgt Ion: 99 Resp: 59422
Ion Ratio Lower Upper
99 100
42 23.3 18.4 27.6
71 34.1 27.2 40.8

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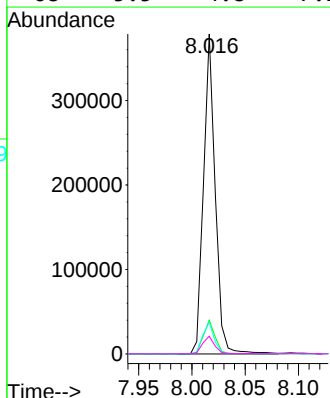
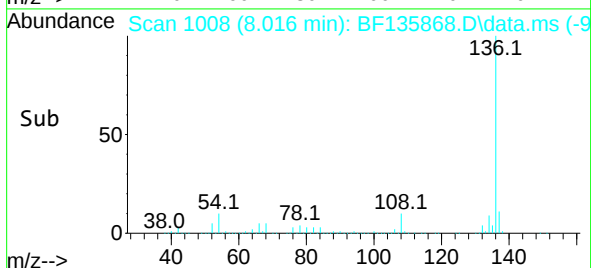
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023

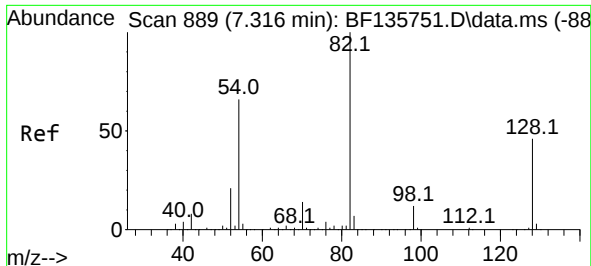


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59



Tgt Ion:136 Resp: 290758
Ion Ratio Lower Upper
136 100
137 10.6 8.6 12.8
54 9.8 8.5 12.7
68 5.5 4.8 7.2





#23

Nitrobenzene-d5

Concen: 70.254 ng

RT: 7.305 min Scan# 81

Delta R.T. -0.012 min

Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

Instrument :

BNA_F

ClientSampleId :

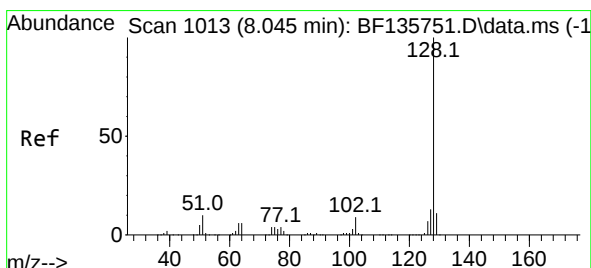
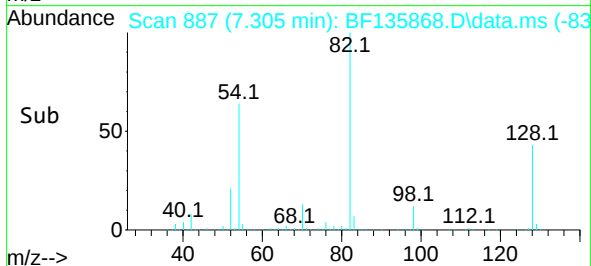
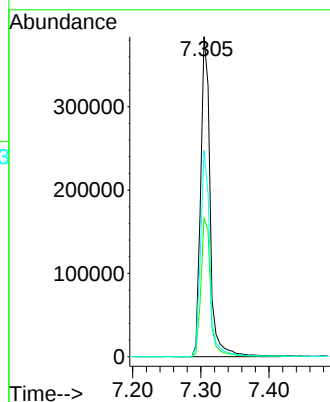
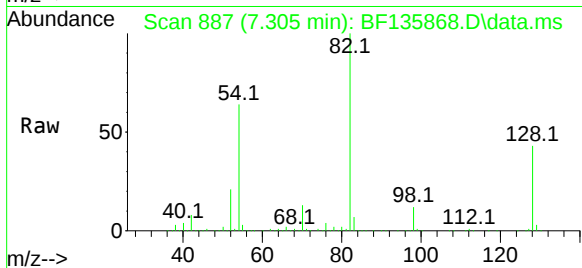
Q-3(10-15)

Tgt Ion: 82 Resp: 371405
 Ion Ratio Lower Upper
 82 100
 128 43.2 37.0 55.6
 54 64.4 52.8 79.2

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#31

Naphthalene

Concen: 12.093 ng

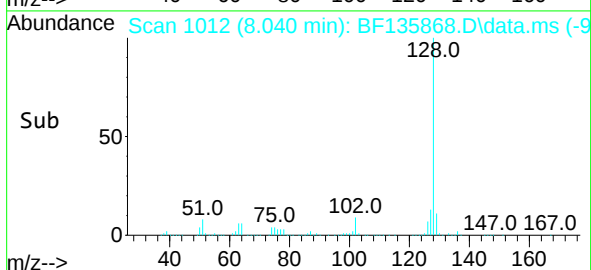
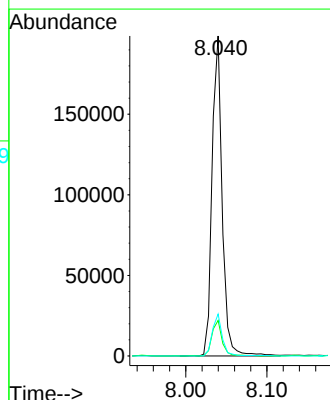
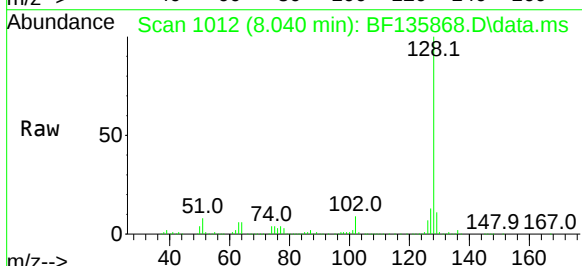
RT: 8.040 min Scan# 1012

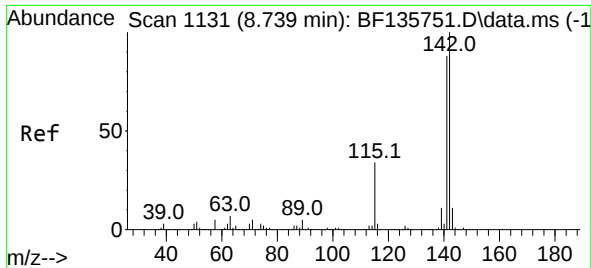
Delta R.T. -0.006 min

Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

Tgt Ion:128 Resp: 171507
 Ion Ratio Lower Upper
 128 100
 129 11.1 8.7 13.1
 127 13.1 10.2 15.4





#37

2-Methylnaphthalene

Concen: 3.860 ng

RT: 8.734 min Scan# 1131

Delta R.T. -0.006 min

Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

Instrument :

BNA_F

ClientSampleId :

Q-3(10-15)

Tgt Ion:142 Resp: 3606

Ion Ratio Lower Upper

142 100

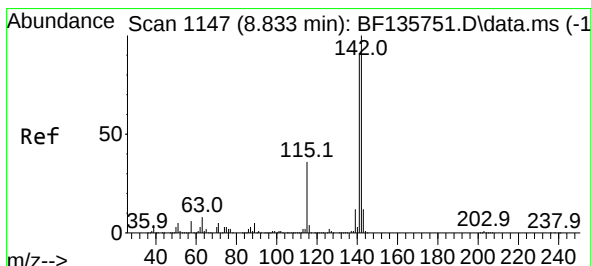
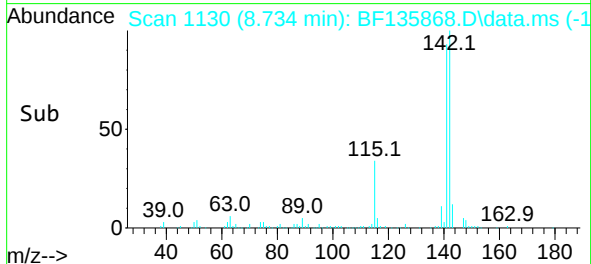
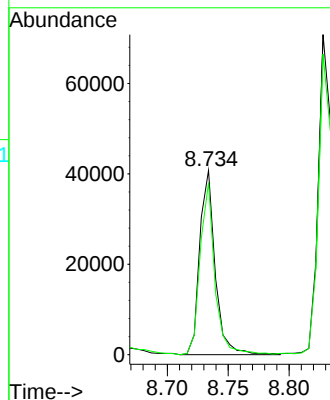
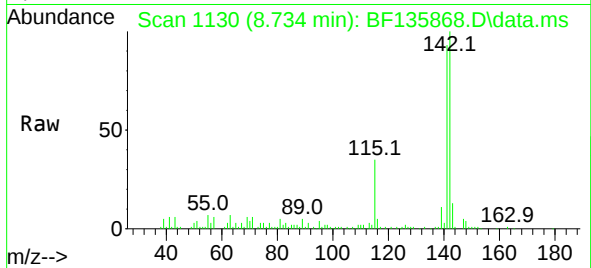
141 93.3 70.6 105.8

Manual Integrations

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Supervised By :mohammad ahmed 10/20/2023



#38

1-Methylnaphthalene

Concen: 6.783 ng

RT: 8.828 min Scan# 1146

Delta R.T. -0.012 min

Lab File: BF135868.D

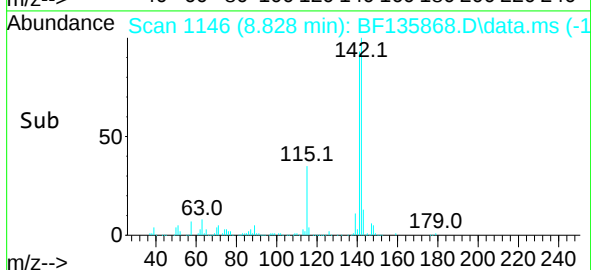
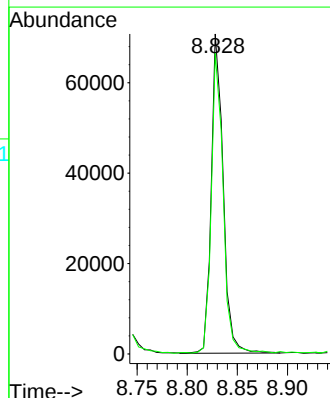
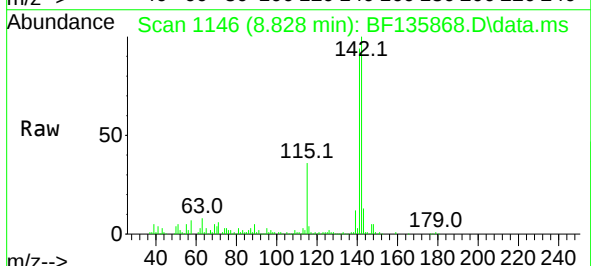
Acq: 19 Oct 2023 01:59

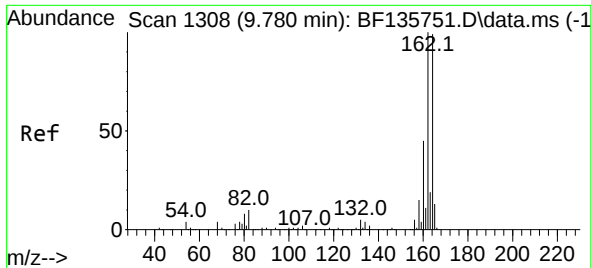
Tgt Ion:142 Resp: 58454

Ion Ratio Lower Upper

142 100

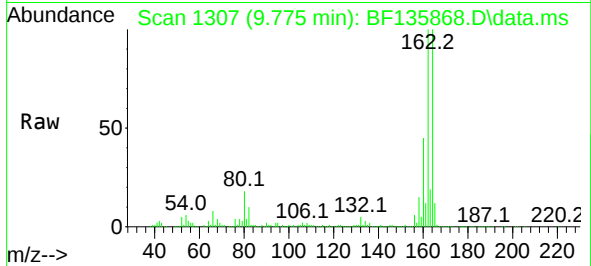
141 93.9 72.7 109.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59

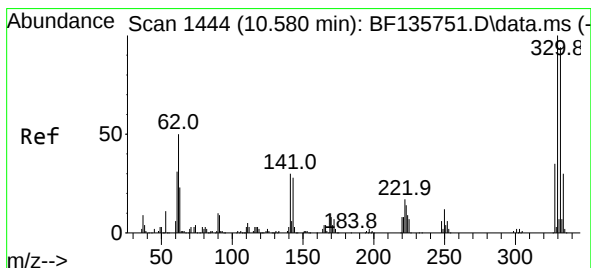
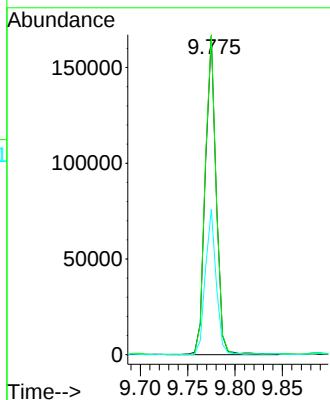
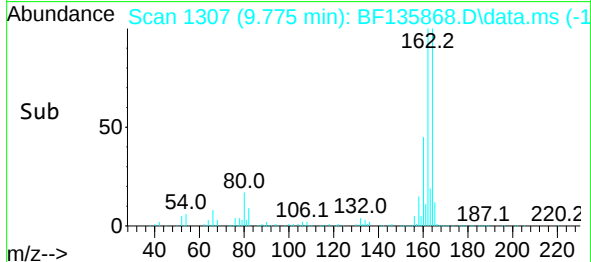
Instrument :
BNA_F
ClientSampleId :
Q-3(10-15)



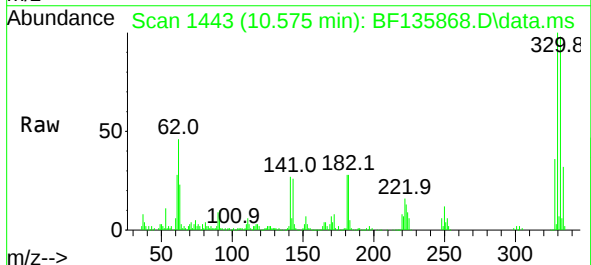
Tgt Ion:164 Resp: 13348
Ion Ratio Lower Upper
164 100
162 100.5 80.8 121.2
160 45.7 36.6 54.8

Manual Integrations
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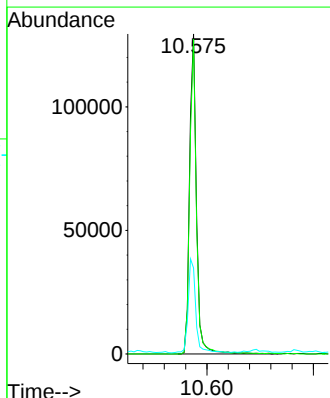
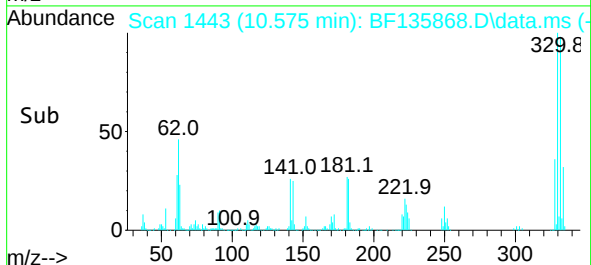
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023

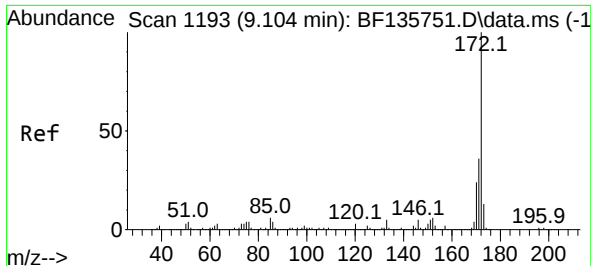


#42
2,4,6-Tribromophenol
Concen: 90.569 ng
RT: 10.575 min Scan# 1443
Delta R.T. -0.012 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59



Tgt Ion:330 Resp: 116008
Ion Ratio Lower Upper
330 100
332 95.6 75.0 112.4
141 32.1 25.8 38.6





#45

2-Fluorobiphenyl

Concen: 74.880 ng

RT: 9.093 min Scan# 1193

Delta R.T. -0.012 min

Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

Instrument :

BNA_F

ClientSampleId :

Q-3(10-15)

Tgt Ion:172 Resp: 63928

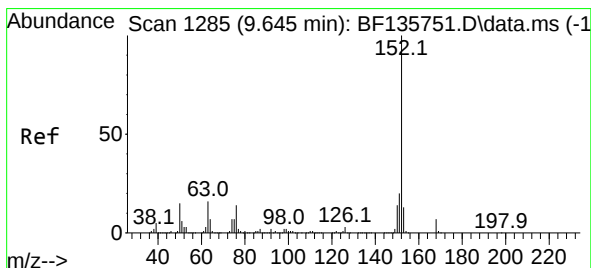
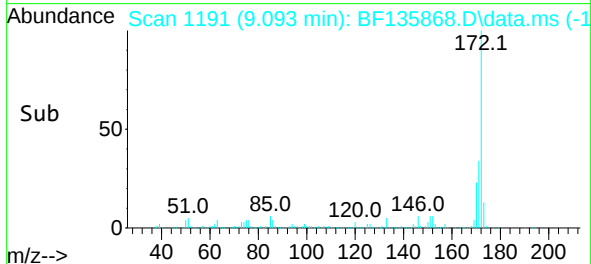
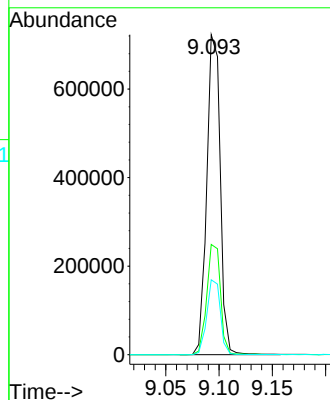
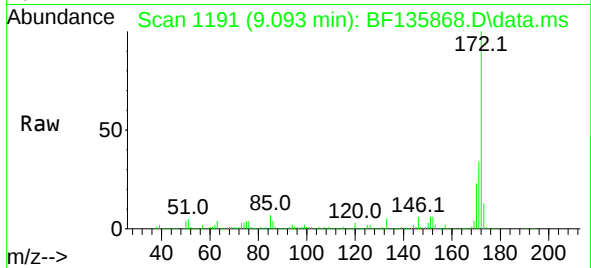
Ion	Ratio	Lower	Upper
172	100		
171	34.4	28.4	42.6
170	23.4	18.8	28.2

Manual Integrations

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Supervised By :mohammad ahmed 10/20/2023



#49

Acenaphthylene

Concen: 19.008 ng

RT: 9.640 min Scan# 1284

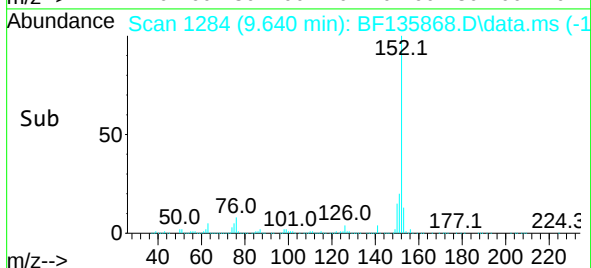
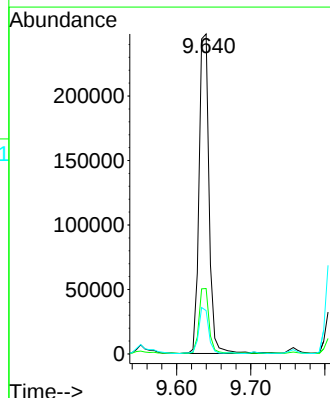
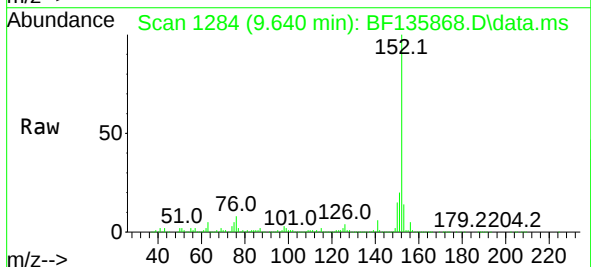
Delta R.T. -0.006 min

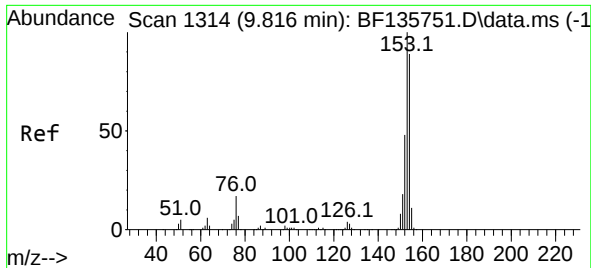
Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

Tgt Ion:152 Resp: 231809

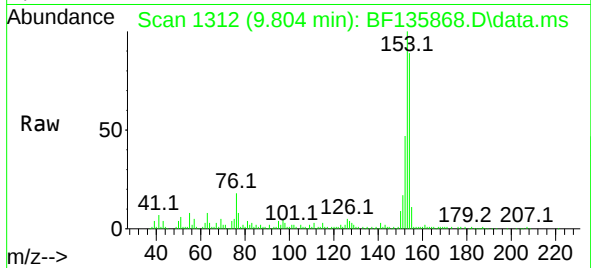
Ion	Ratio	Lower	Upper
152	100		
151	20.5	16.2	24.2
153	13.6	10.2	15.4





#52
Acenaphthene
Concen: 7.573 ng
RT: 9.804 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59

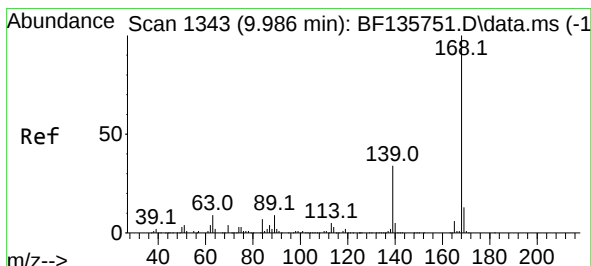
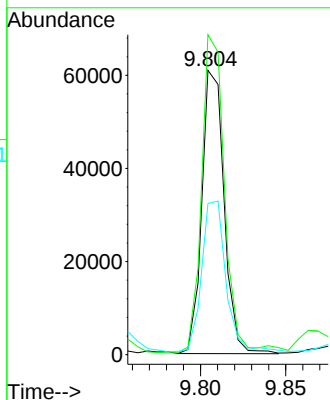
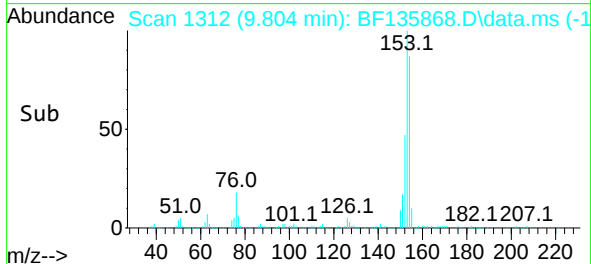
Instrument :
BNA_F
ClientSampleId :
Q-3(10-15)



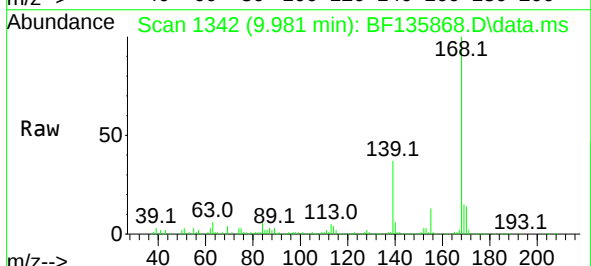
Tgt Ion:154 Resp: 55352
Ion Ratio Lower Upper
154 100
153 112.6 90.1 135.1
152 53.2 43.1 64.7

Manual Integrations
APPROVED

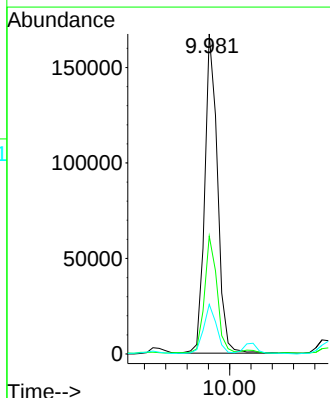
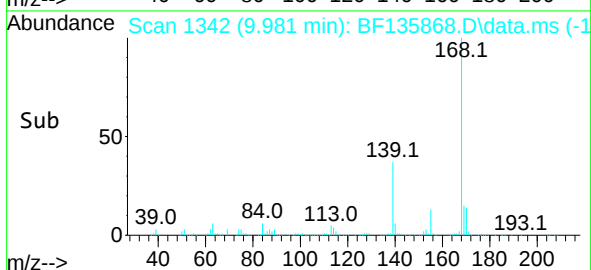
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023

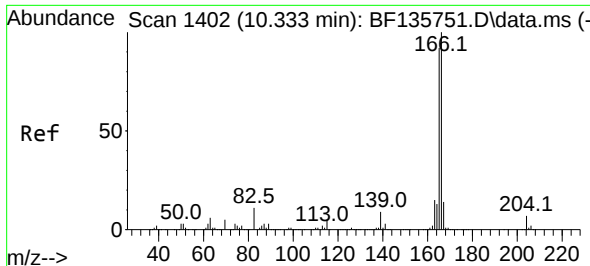


#55
Dibenzofuran
Concen: 12.644 ng
RT: 9.981 min Scan# 1342
Delta R.T. -0.012 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59



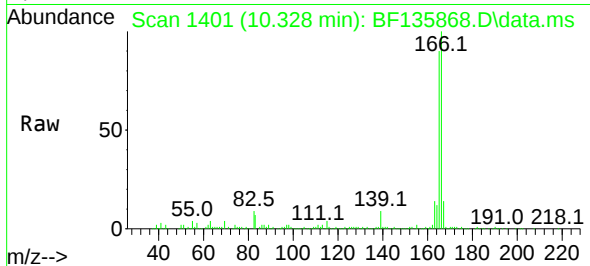
Tgt Ion:168 Resp: 139446
Ion Ratio Lower Upper
168 100
139 36.8 31.0 46.4
169 15.5 10.7 16.1





#58
Fluorene
Concen: 11.690 ng
RT: 10.328 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59

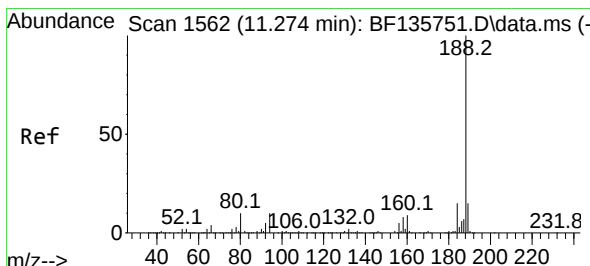
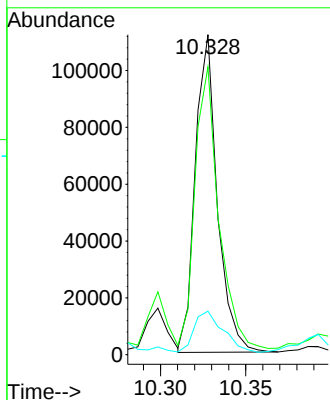
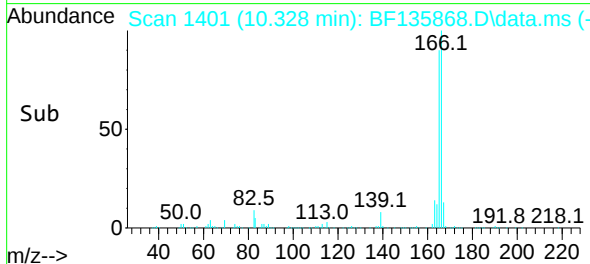
Instrument :
BNA_F
ClientSampleId :
Q-3(10-15)



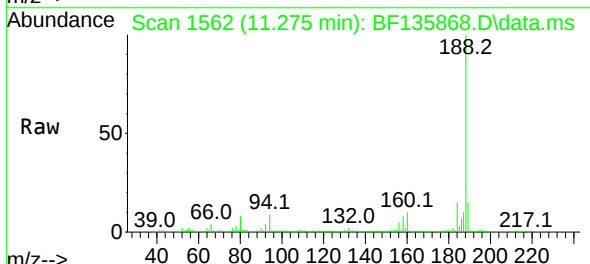
Tgt Ion:166 Resp: 100938
Ion Ratio Lower Upper
166 100
165 89.9 73.4 110.0
167 13.6 11.0 16.6

Manual Integrations
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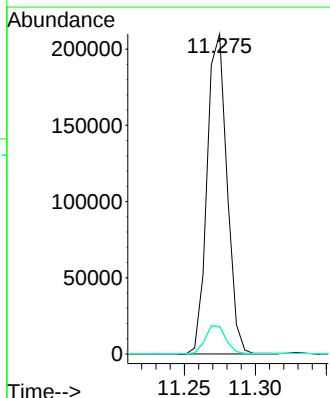
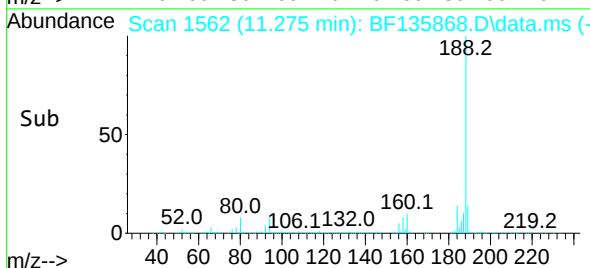
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023

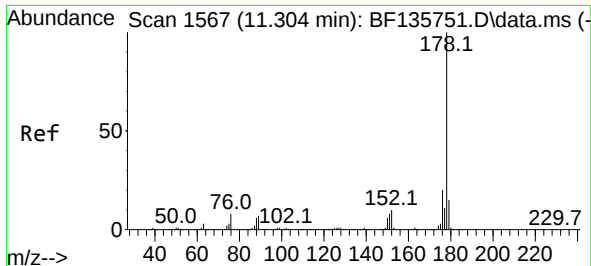


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.275 min Scan# 1562
Delta R.T. -0.006 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59



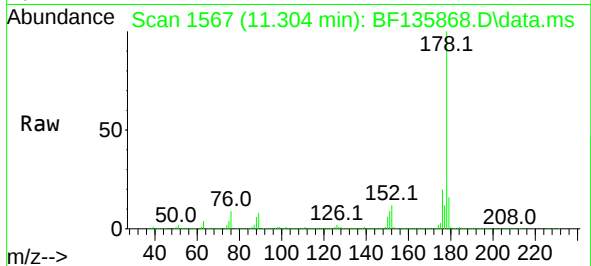
Tgt Ion:188 Resp: 204470
Ion Ratio Lower Upper
188 100
94 8.7 8.0 12.0
80 8.4 8.3 12.5





#71
Phenanthrene
Concen: 126.555 ng
RT: 11.304 min Scan# 1567
Delta R.T. 0.000 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59

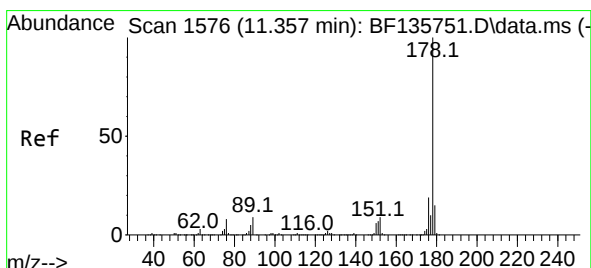
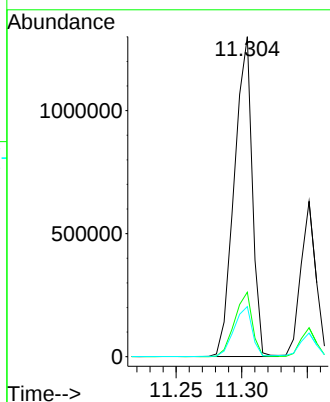
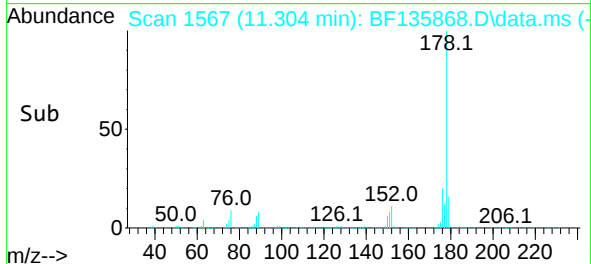
Instrument :
BNA_F
ClientSampleId :
Q-3(10-15)



Tgt Ion:178 Resp: 123961
Ion Ratio Lower Upper
178 100
176 20.1 16.0 24.0
179 15.7 12.2 18.4

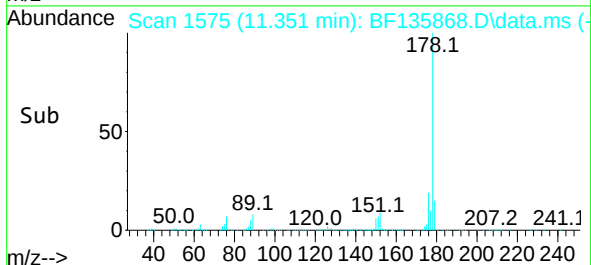
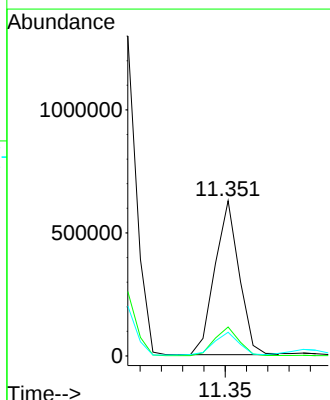
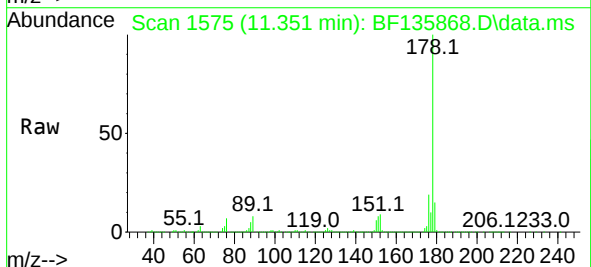
Manual Integrations
APPROVED

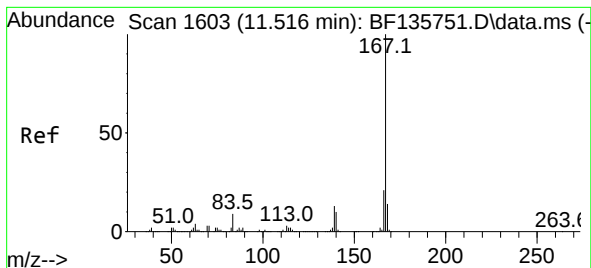
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023



#72
Anthracene
Concen: 48.940 ng
RT: 11.351 min Scan# 1575
Delta R.T. -0.006 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59

Tgt Ion:178 Resp: 496739
Ion Ratio Lower Upper
178 100
176 18.6 15.1 22.7
179 15.3 12.3 18.5





#73

Carbazole

Concen: 6.577 ng

RT: 11.516 min Scan# 1603

Delta R.T. -0.006 min

Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

Instrument :

BNA_F

ClientSampleId :

Q-3(10-15)

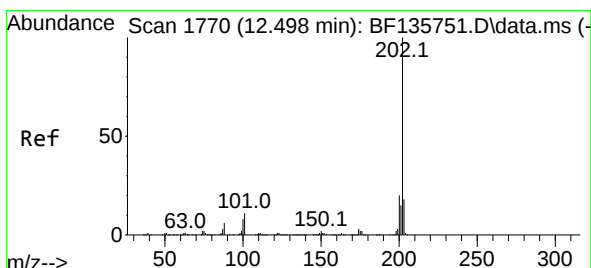
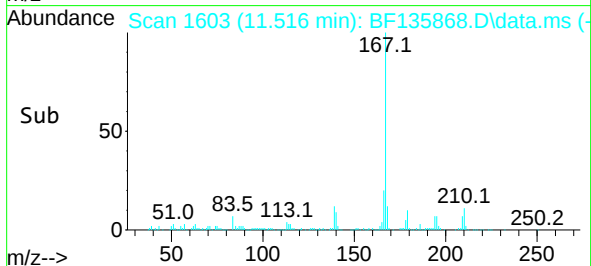
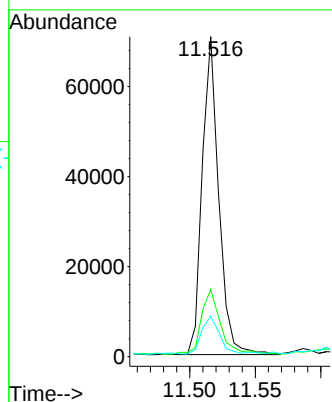
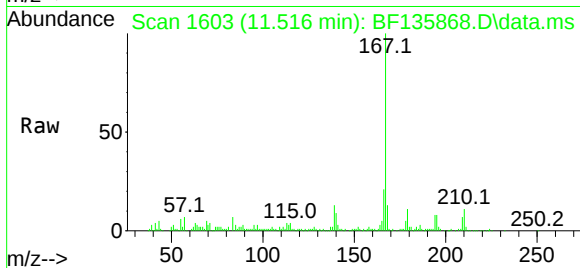
Tgt Ion:167	Resp: 62250
Ion Ratio	Lower Upper
167 100	
166 21.0	17.1 25.7
139 12.7	10.2 15.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/19/2023

Supervised By :mohammad ahmed 10/20/2023



#75

Fluoranthene

Concen: 132.810 ng

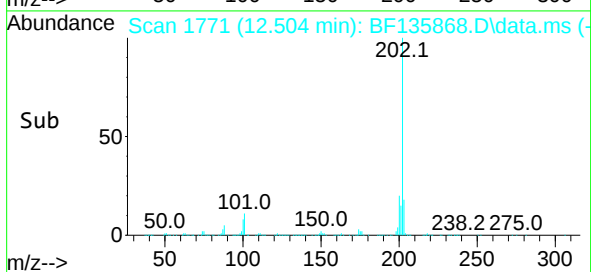
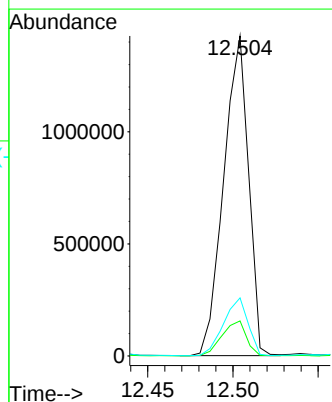
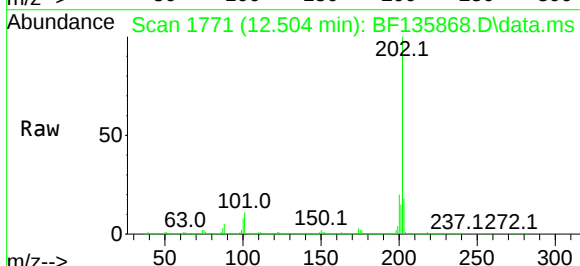
RT: 12.504 min Scan# 1771

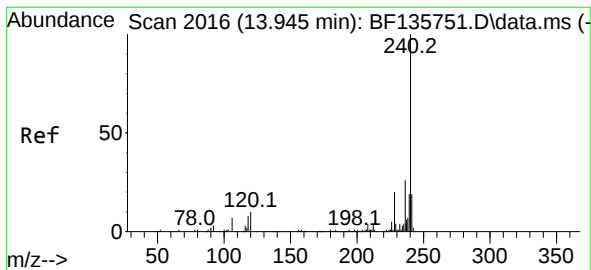
Delta R.T. 0.000 min

Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

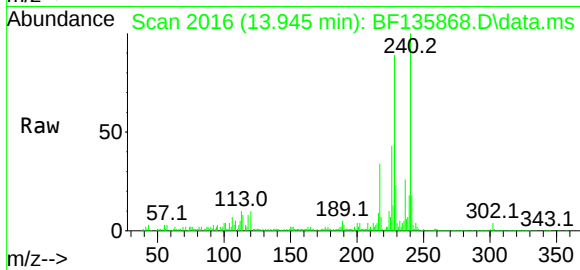
Tgt Ion:202	Resp: 1443817		
Ion Ratio	Lower	Upper	
202 100			
101 11.0	0.0	31.5	
203 18.2	0.0	38.3	





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.945 min Scan# 2016
Delta R.T. -0.006 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59

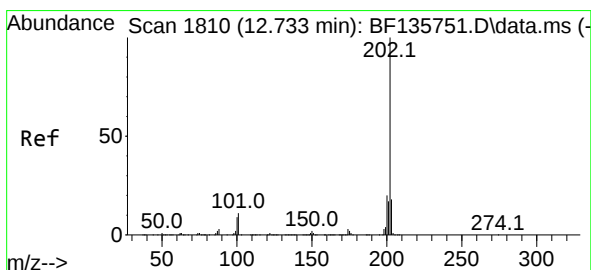
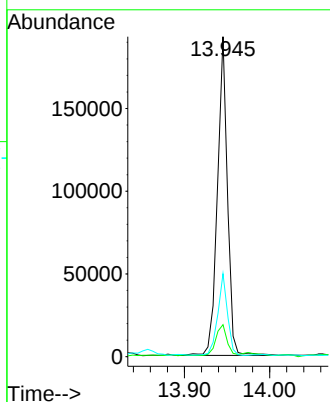
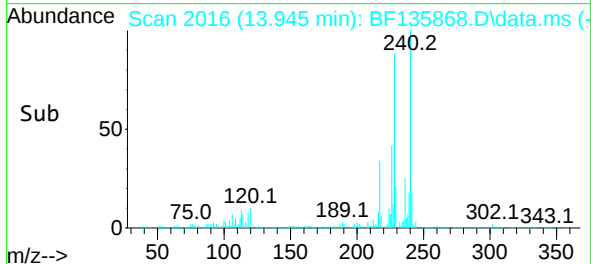
Instrument :
BNA_F
ClientSampleId :
Q-3(10-15)



Tgt Ion:240 Resp: 157825
Ion Ratio Lower Upper
240 100
120 10.0 8.2 12.2
236 25.9 21.2 31.8

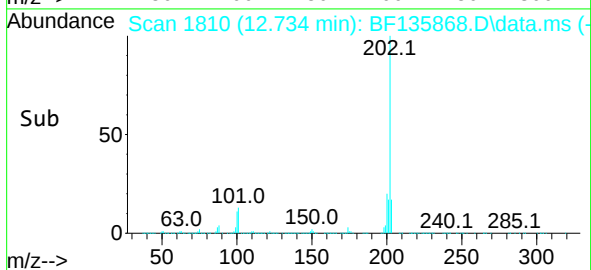
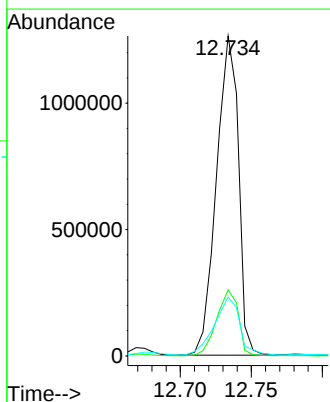
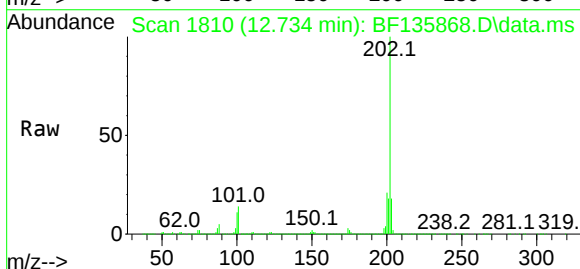
Manual Integrations
APPROVED

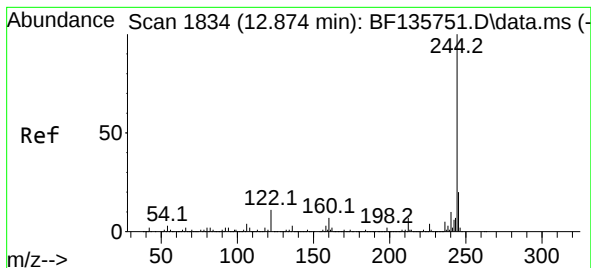
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023



#78
Pyrene
Concen: 108.375 ng
RT: 12.734 min Scan# 1810
Delta R.T. 0.000 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59

Tgt Ion:202 Resp: 1359202
Ion Ratio Lower Upper
202 100
200 20.6 16.1 24.1
203 18.4 14.2 21.2





#79

Terphenyl-d14

Concen: 61.979 ng

RT: 12.869 min Scan# 1833

Delta R.T. -0.012 min

Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

Instrument :

BNA_F

ClientSampleId :

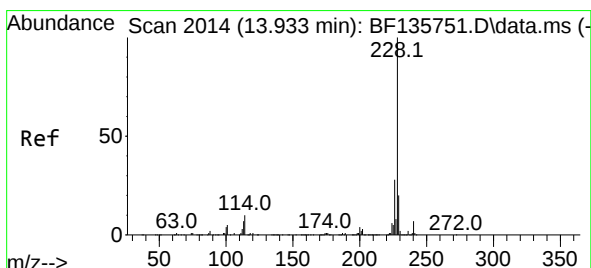
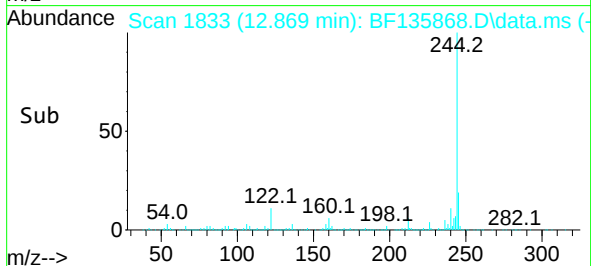
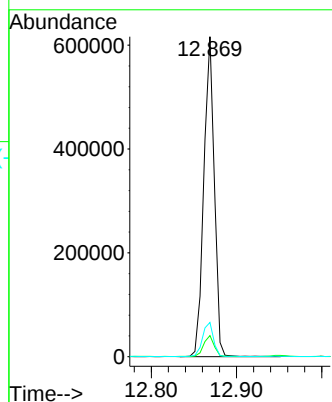
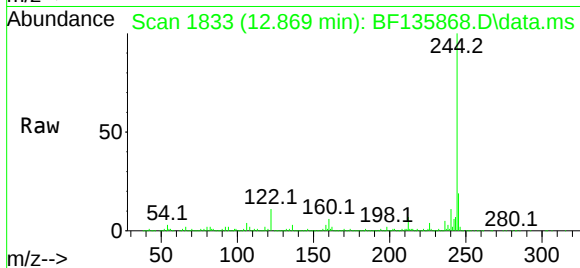
Q-3(10-15)

Tgt Ion:244 Resp: 52820
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.6 8.4
 122 10.7 9.0 13.6

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/19/2023
 Supervised By :mohammad ahmed 10/20/2023



#81

Benzo(a)anthracene

Concen: 83.347 ng

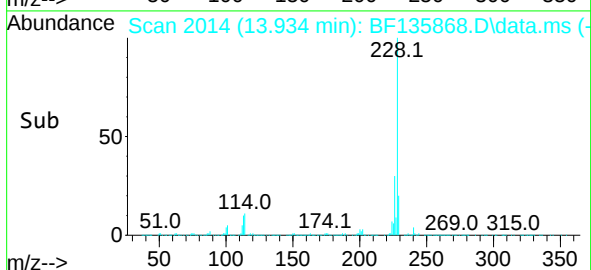
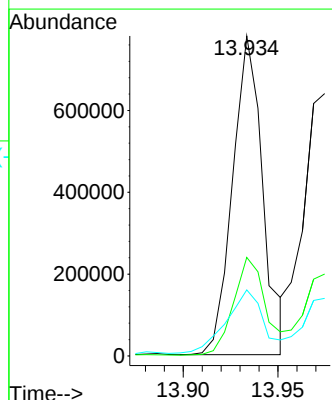
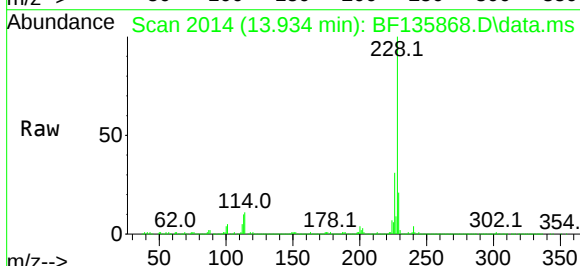
RT: 13.934 min Scan# 2014

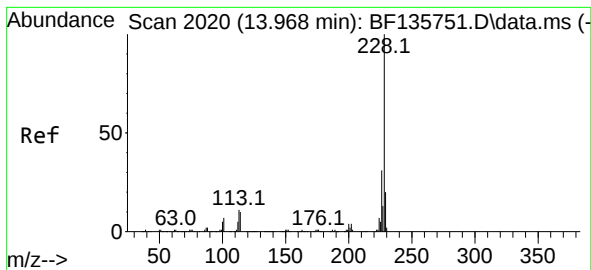
Delta R.T. -0.006 min

Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

Tgt Ion:228 Resp: 864019
 Ion Ratio Lower Upper
 228 100
 226 30.8 22.2 33.2
 229 20.6 16.1 24.1





#83

Chrysene

Concen: 66.691 ng

RT: 13.975 min Scan# 20

Delta R.T. 0.000 min

Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

Instrument :

BNA_F

ClientSampleId :

Q-3(10-15)

Tgt Ion:228 Resp: 66963

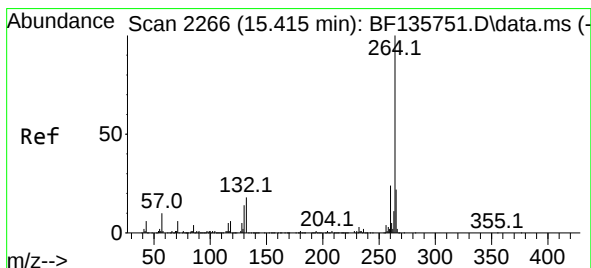
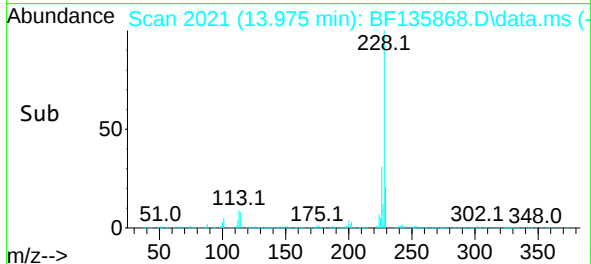
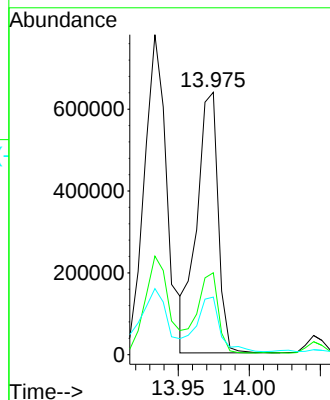
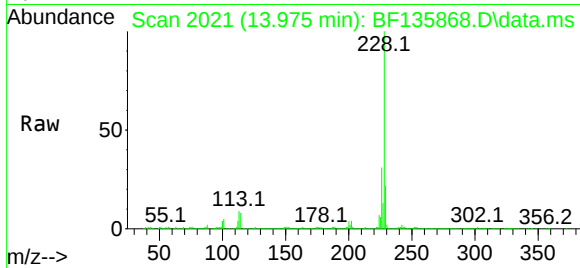
Ion	Ratio	Lower	Upper
228	100		
226	31.2	24.4	36.6
229	21.9	15.7	23.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/19/2023

Supervised By :mohammad ahmed 10/20/2023



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.422 min Scan# 2267

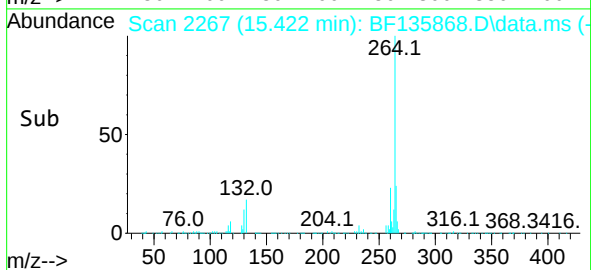
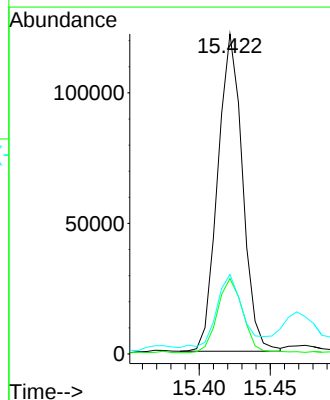
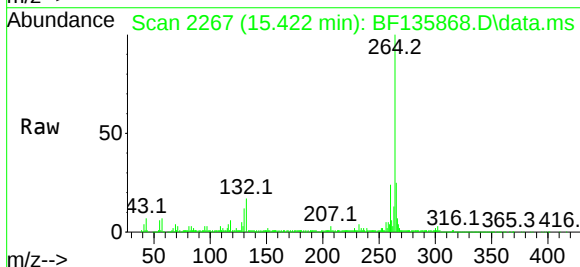
Delta R.T. 0.000 min

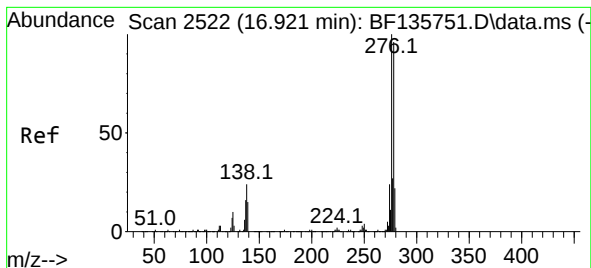
Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

Tgt Ion:264 Resp: 147773

Ion	Ratio	Lower	Upper
264	100		
260	23.5	19.2	28.8
265	24.8	17.4	26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 24.367 ng

RT: 16.927 min Scan# 2195

Delta R.T. -0.006 min

Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

Instrument :

BNA_F

ClientSampleId :

Q-3(10-15)

Tgt Ion:276 Resp: 196200

Ion Ratio Lower Upper

276 100

138 19.3 19.8 29.6

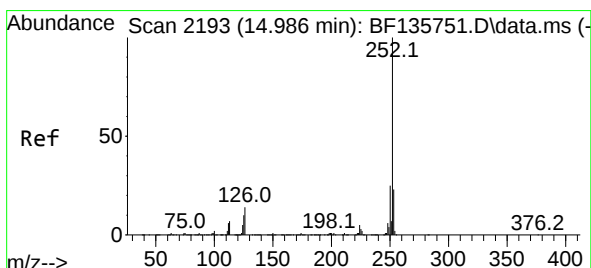
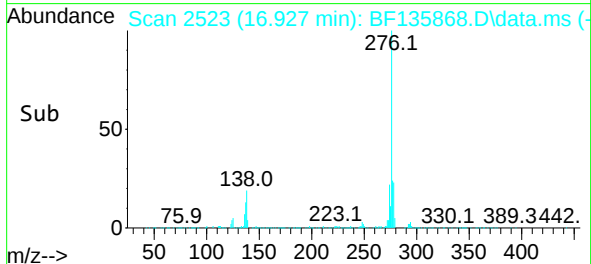
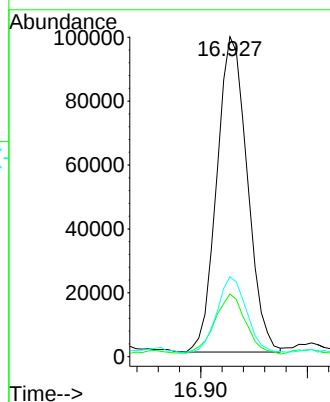
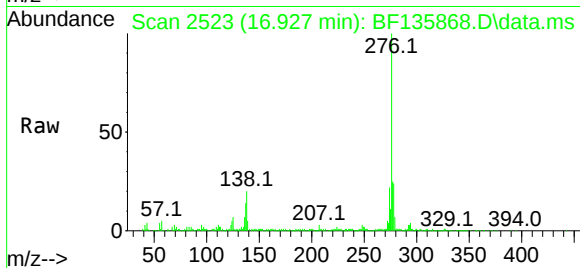
277 23.5 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/19/2023

Supervised By :mohammad ahmed 10/20/2023



#88

Benzo(b)fluoranthene

Concen: 79.580 ng m

RT: 14.998 min Scan# 2195

Delta R.T. 0.006 min

Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

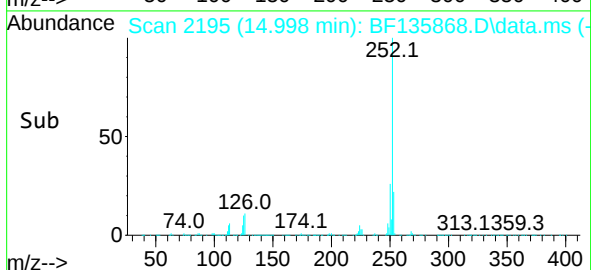
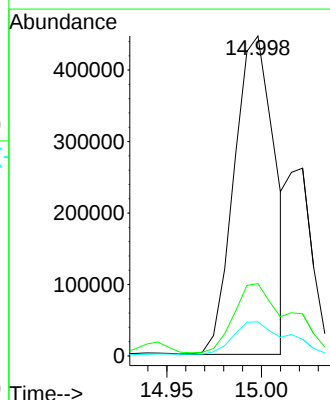
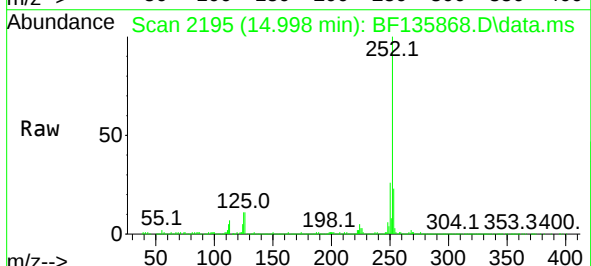
Tgt Ion:252 Resp: 658154

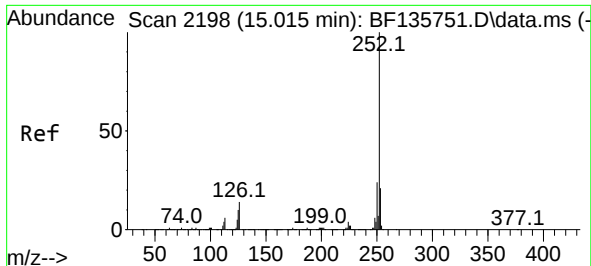
Ion Ratio Lower Upper

252 100

253 22.6 18.2 27.2

125 10.7 8.2 12.2





#89

Benzo(k)fluoranthene

Concen: 30.576 ng m

RT: 15.022 min Scan# 2198

Delta R.T. 0.000 min

Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

Instrument :

BNA_F

ClientSampleId :

Q-3(10-15)

Tgt Ion:252 Resp: 245508

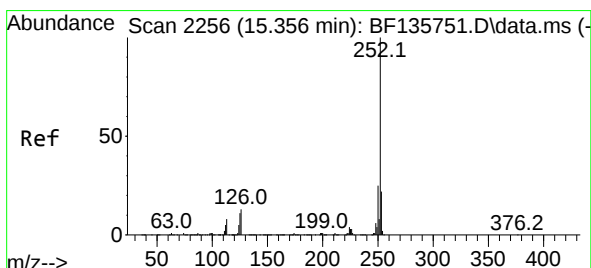
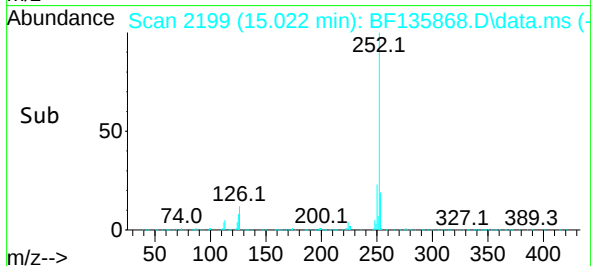
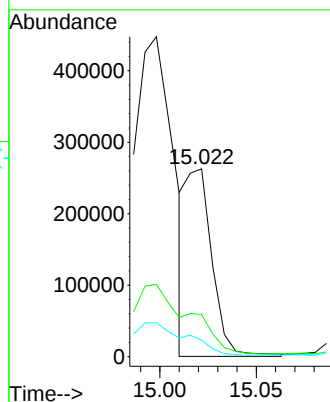
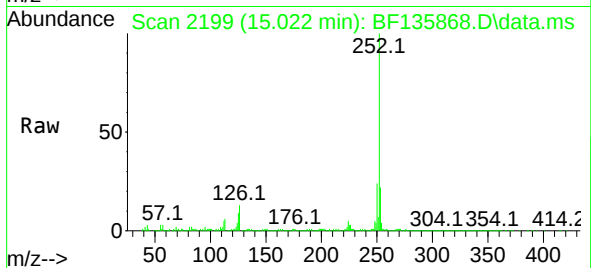
Ion	Ratio	Lower	Upper
252	100		
253	22.4	17.4	26.0
125	8.9	8.3	12.5

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/19/2023

Supervised By :mohammad ahmed 10/20/2023



#90

Benzo(a)pyrene

Concen: 63.197 ng

RT: 15.363 min Scan# 2257

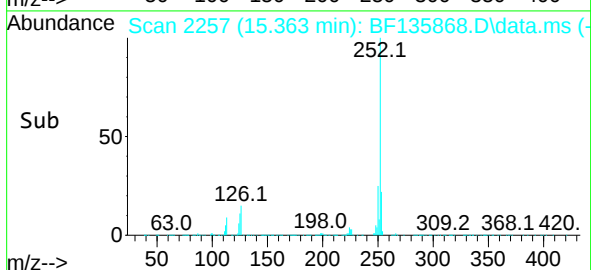
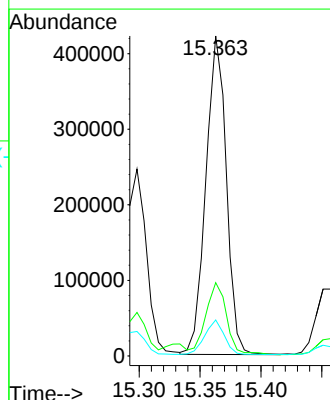
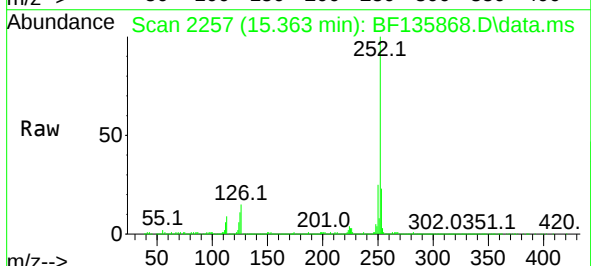
Delta R.T. 0.000 min

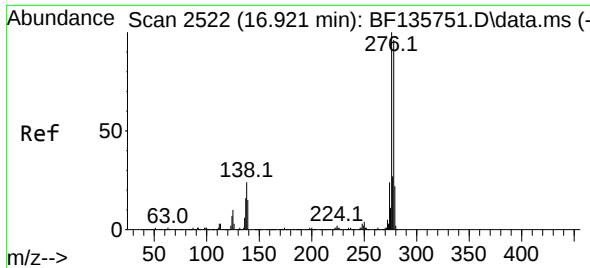
Lab File: BF135868.D

Acq: 19 Oct 2023 01:59

Tgt Ion:252 Resp: 491476

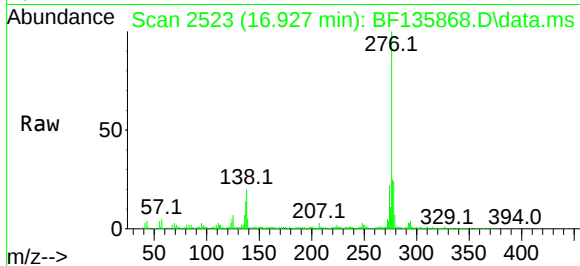
Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.4	26.2
125	11.3	8.8	13.2





#91
Dibenzo(a,h)anthracene
Concen: 8.498 ng
RT: 16.927 min Scan# 21
Delta R.T. -0.012 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59

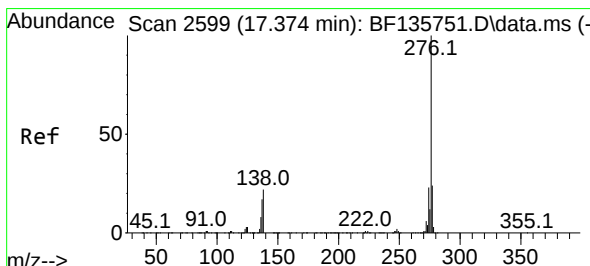
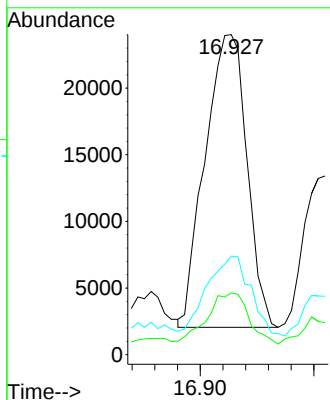
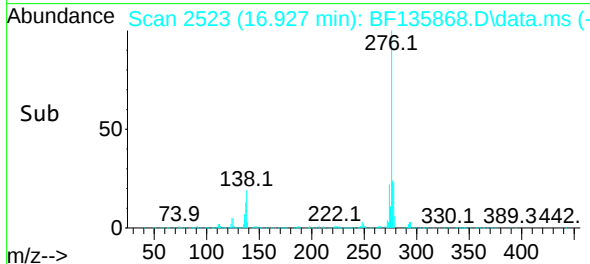
Instrument :
BNA_F
ClientSampleId :
Q-3(10-15)



Tgt Ion:278 Resp: 56094
Ion Ratio Lower Upper
278 100
139 19.3 12.5 18.7
279 30.8 18.6 27.8

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023



#92
Benzo(g,h,i)perylene
Concen: 25.790 ng
RT: 17.386 min Scan# 2601
Delta R.T. 0.000 min
Lab File: BF135868.D
Acq: 19 Oct 2023 01:59

Tgt Ion:276 Resp: 174863
Ion Ratio Lower Upper
276 100
277 25.7 19.4 29.2
138 20.6 17.3 25.9

