

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101623\
 Data File : BF135800.D
 Acq On : 17 Oct 2023 03:29
 Operator : CG\JU
 Sample : 04704-03 2X
 Misc :
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 R-2(5-10)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/17/2023
 Supervised By :mohammad ahmed 10/18/2023

Quant Time: Oct 17 04:12:52 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	6.734	152	109548	20.000	ng	-0.01
21) Naphthalene-d8	8.016	136	392142	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	172892	20.000	ng	-0.01
64) Phenanthrene-d10	11.280	188	286056	20.000	ng	0.00
76) Chrysene-d12	13.951	240	148613	20.000	ng	0.00
86) Perylene-d12	15.427	264	141480	20.000	ng	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.369	112	300303	44.073	ng	0.00
7) Phenol-d6	6.387	99	381649	44.891	ng	-0.01
23) Nitrobenzene-d5	7.304	82	220292	30.897	ng	-0.01
42) 2,4,6-Tribromophenol	10.575	330	65387	39.413	ng	-0.01
45) 2-Fluorobiphenyl	9.092	172	385196	34.834	ng	-0.01
79) Terphenyl-d14	12.874	244	325792	40.598	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.040	128	1462374	76.456	ng	99
37) 2-Methylnaphthalene	8.734	142	885619	70.277	ng	100
38) 1-Methylnaphthalene	8.839	142	1313258	112.987	ng	99
46) 1,1'-Biphenyl	9.198	154	549045	41.457	ng	98
49) Acenaphthylene	9.639	152	723740	45.820	ng	# 93
52) Acenaphthene	9.810	154	288961	30.521	ng	95
55) Dibenzofuran	9.986	168	273105	19.118	ng	# 92
58) Fluorene	10.333	166	1143210	102.223	ng	97
71) Phenanthrene	11.322	178	4167557	304.125	ng	98
72) Anthracene	11.363	178	890530	62.714	ng	100
73) Carbazole	11.516	167	90221	6.813	ng	# 94
75) Fluoranthene	12.516	202	2444563	160.731	ng	99
78) Pyrene	12.757	202	3209627	271.782	ng	95
81) Benzo(a)anthracene	13.939	228	1298471	133.020	ng	94
83) Chrysene	13.980	228	1212575	128.250	ng	95
87) Indeno(1,2,3-cd)pyrene	16.939	276	334961	43.451	ng	# 92
88) Benzo(b)fluoranthene	15.004	252	783925m	99.004	ng	
89) Benzo(k)fluoranthene	15.021	252	278297m	36.202	ng	
90) Benzo(a)pyrene	15.374	252	849781	114.130	ng	99
91) Dibenzo(a,h)anthracene	16.939	278	100665	15.929	ng	# 88
92) Benzo(g,h,i)perylene	17.398	276	356831	54.969	ng	98

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

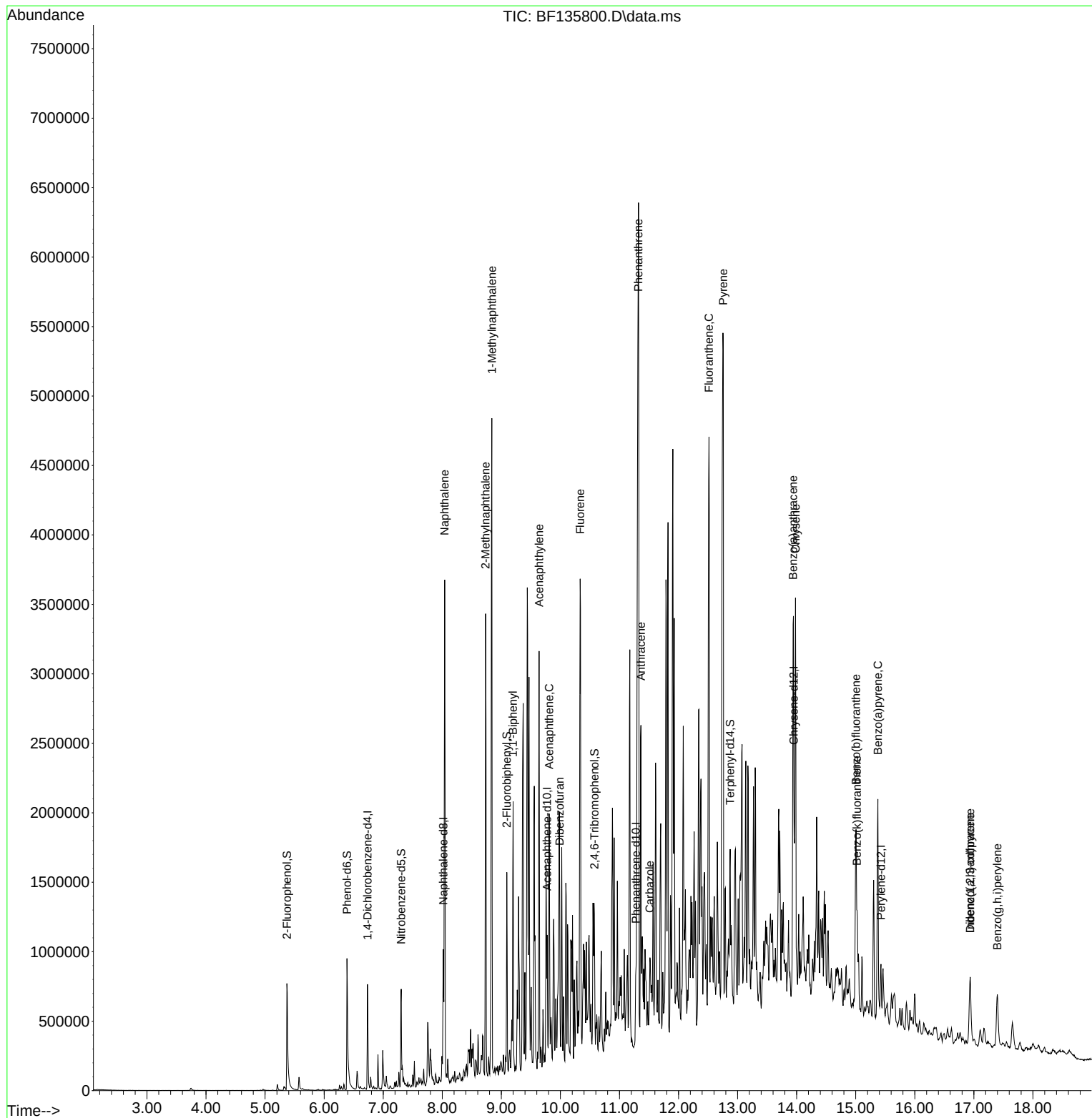
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101623\
Data File : BF135800.D
Acq On : 17 Oct 2023 03:29
Operator : CG\JU
Sample : 04704-03 2X
Misc :
ALS Vial : 22 Sample Multiplier: 1

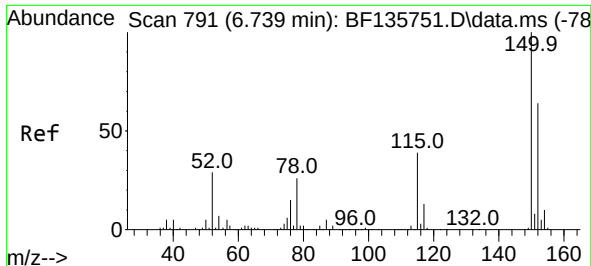
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)

Quant Time: Oct 17 04:12:52 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
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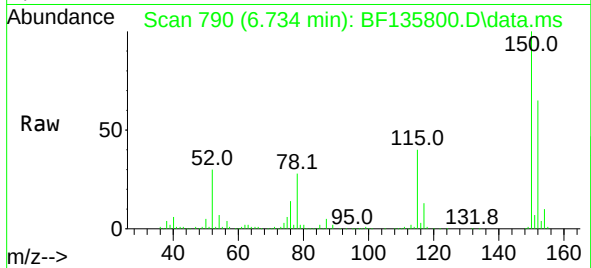
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/18/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.734 min Scan# 791
Delta R.T. -0.012 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29

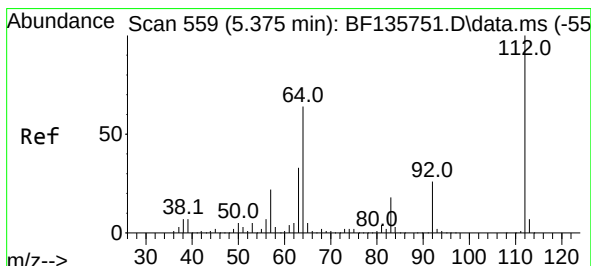
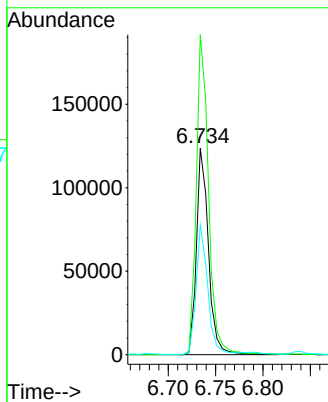
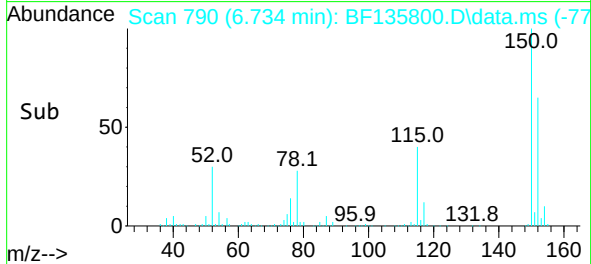
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)



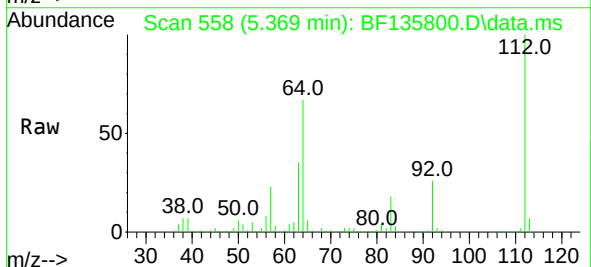
Tgt Ion:152 Resp: 109548
Ion Ratio Lower Upper
152 100
150 155.0 124.5 186.7
115 62.7 49.0 73.4

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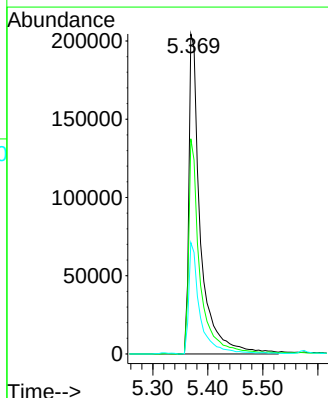
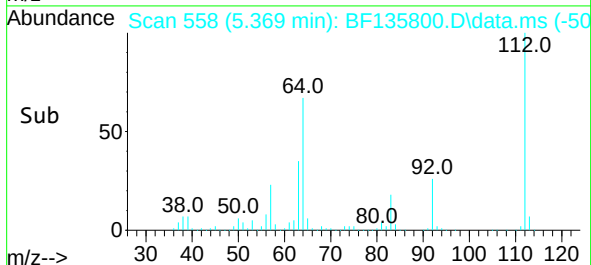
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/18/2023

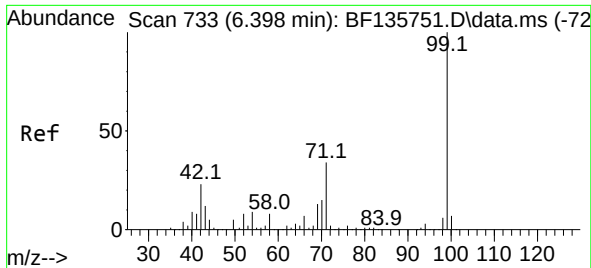


#5
2-Fluorophenol
Concen: 44.073 ng
RT: 5.369 min Scan# 558
Delta R.T. -0.006 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29



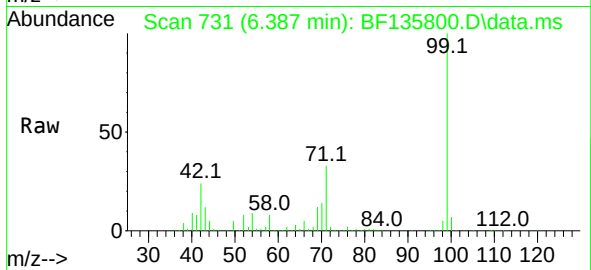
Tgt Ion:112 Resp: 300303
Ion Ratio Lower Upper
112 100
64 67.2 51.2 76.8
63 34.8 26.1 39.1





#7
Phenol-d6
Concen: 44.891 ng
RT: 6.387 min Scan# 71
Delta R.T. -0.012 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29

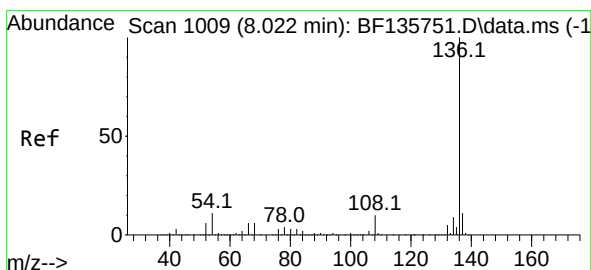
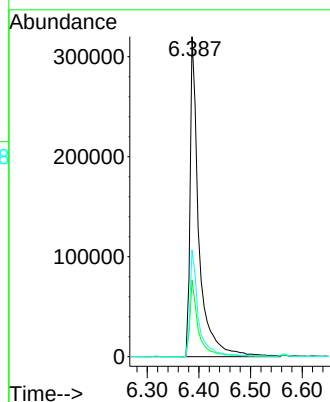
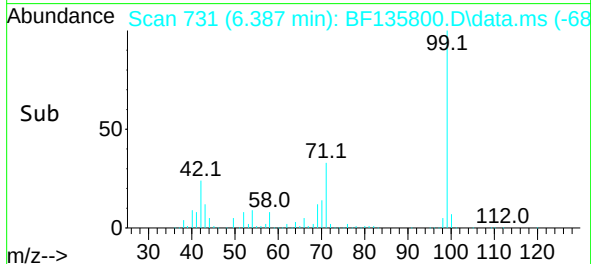
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)



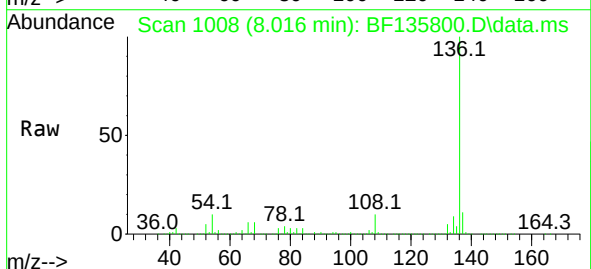
Tgt Ion: 99 Resp: 381649
Ion Ratio Lower Upper
99 100
42 23.9 18.4 27.6
71 33.4 27.2 40.8

Manual Integrations
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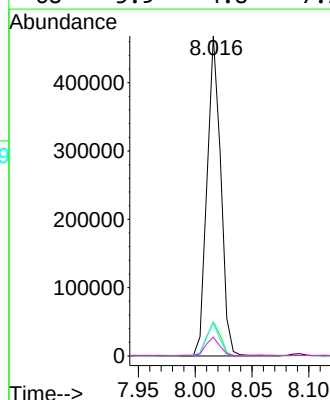
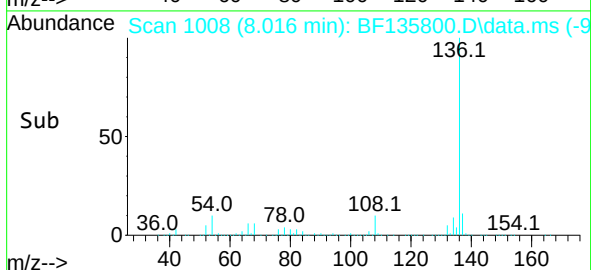
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/18/2023

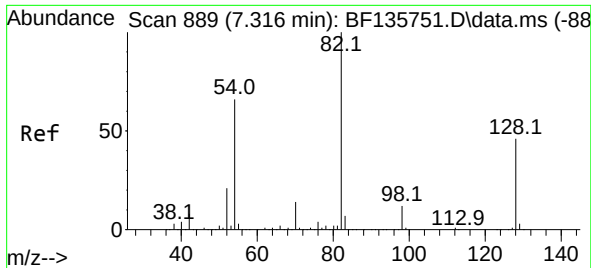


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29



Tgt Ion:136 Resp: 392142
Ion Ratio Lower Upper
136 100
137 10.6 8.6 12.8
54 10.3 8.5 12.7
68 5.9 4.8 7.2





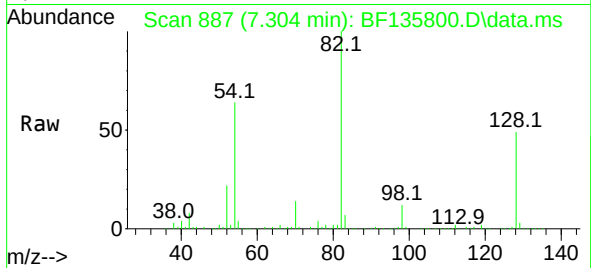
#23
Nitrobenzene-d5
Concen: 30.897 ng
RT: 7.304 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)

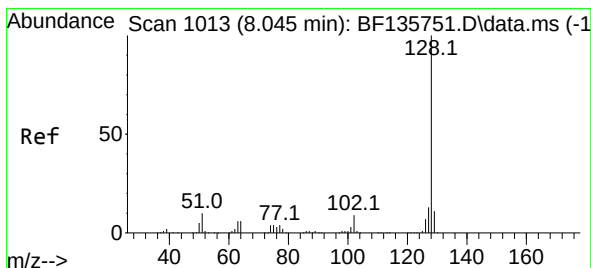
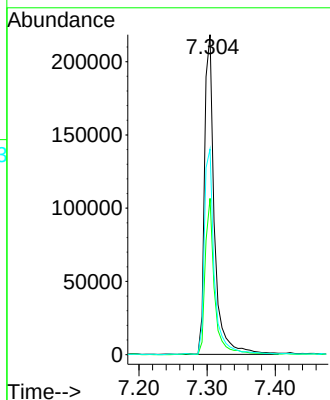
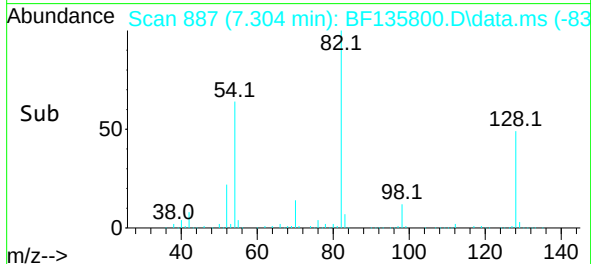


Tgt Ion: 82 Resp: 220292
Ion Ratio Lower Upper
82 100
128 48.9 37.0 55.6
54 64.3 52.8 79.2

Manual Integrations

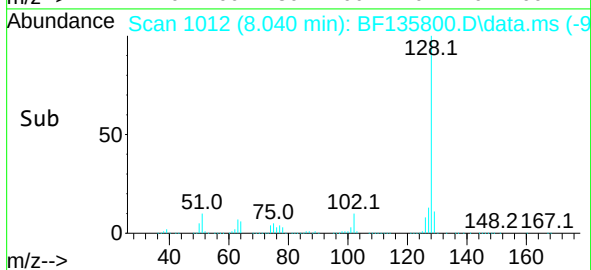
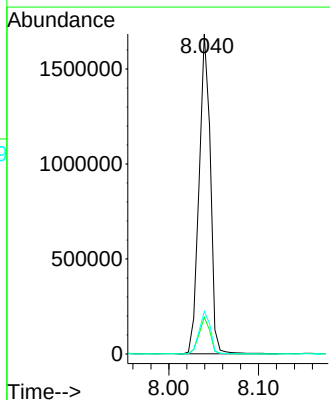
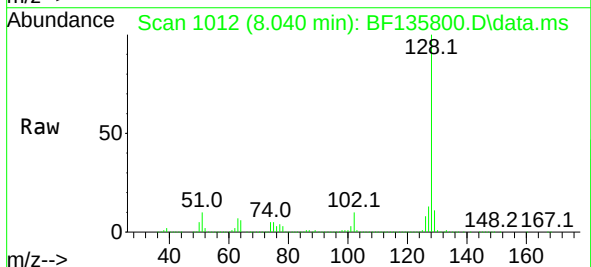
APPROVED

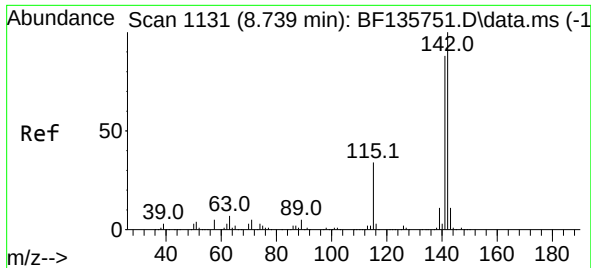
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/18/2023



#31
Naphthalene
Concen: 76.456 ng
RT: 8.040 min Scan# 1012
Delta R.T. -0.006 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29

Tgt Ion:128 Resp: 1462374
Ion Ratio Lower Upper
128 100
129 11.5 8.7 13.1
127 13.3 10.2 15.4





#37

2-Methylnaphthalene

Concen: 70.277 ng

RT: 8.734 min Scan# 1131

Delta R.T. -0.006 min

Lab File: BF135800.D

Acq: 17 Oct 2023 03:29

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)

Tgt Ion:142 Resp: 885619

Ion Ratio Lower Upper

142 100

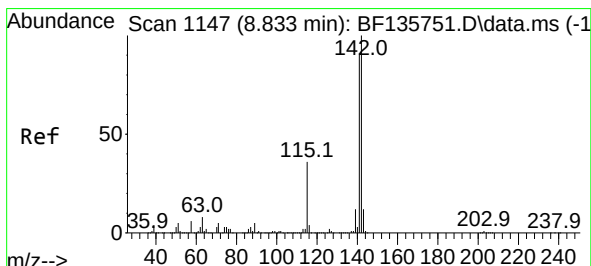
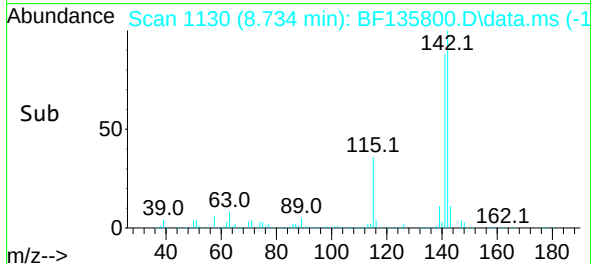
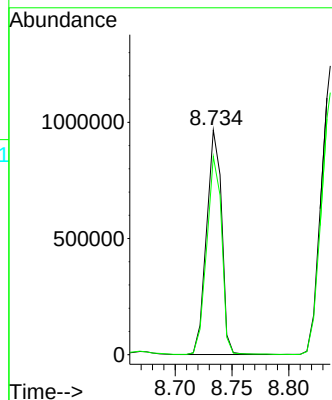
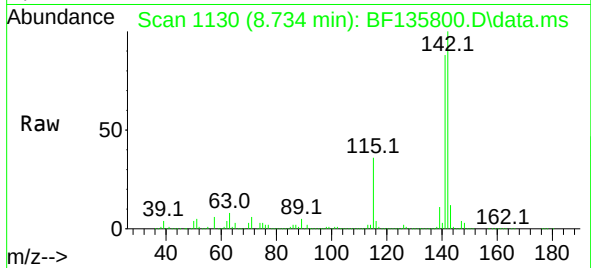
141 88.1 70.6 105.8

Manual Integrations

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Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/18/2023



#38

1-Methylnaphthalene

Concen: 112.987 ng

RT: 8.839 min Scan# 1148

Delta R.T. -0.000 min

Lab File: BF135800.D

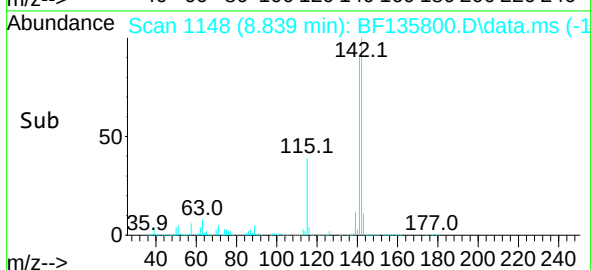
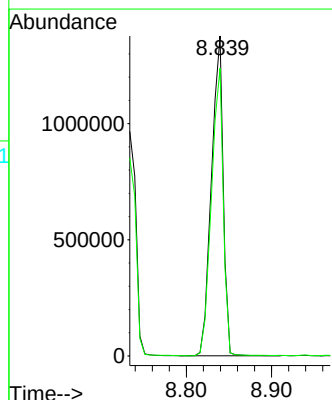
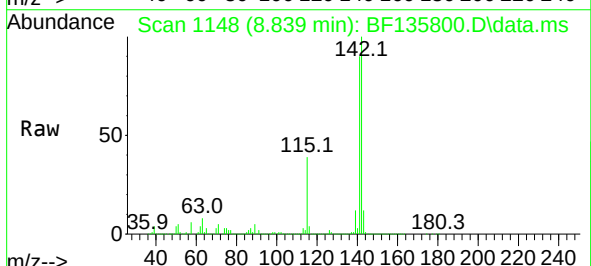
Acq: 17 Oct 2023 03:29

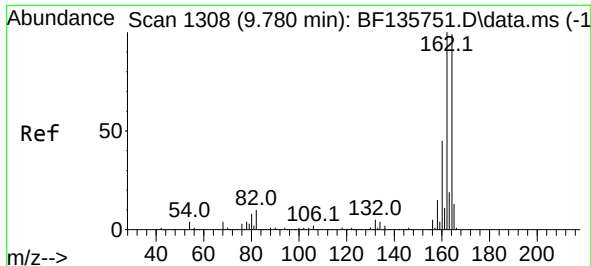
Tgt Ion:142 Resp: 1313258

Ion Ratio Lower Upper

142 100

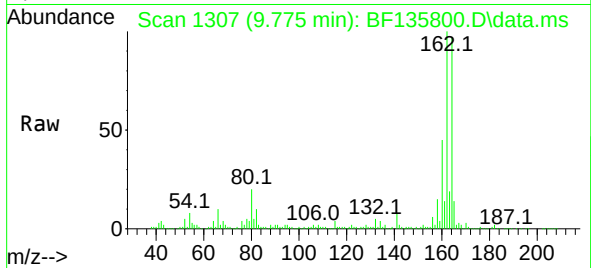
141 89.9 72.7 109.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29

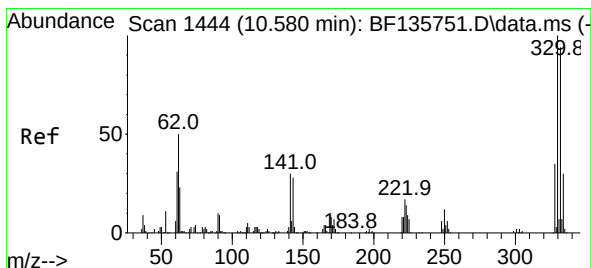
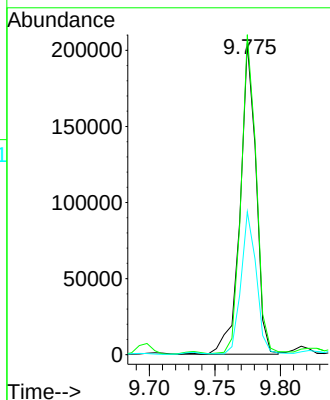
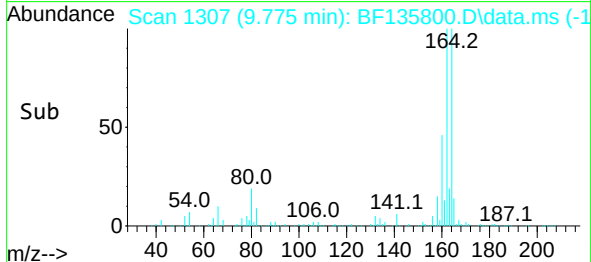
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)



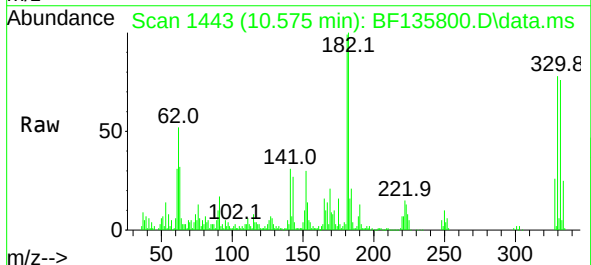
Tgt Ion:164 Resp: 172892
Ion Ratio Lower Upper
164 100
162 102.8 80.8 121.2
160 45.9 36.6 54.8

Manual Integrations
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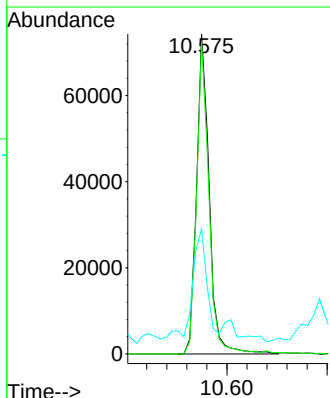
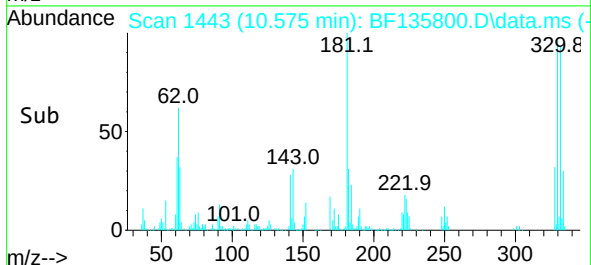
Reviewed By :Yogesh Patel 10/17/2023
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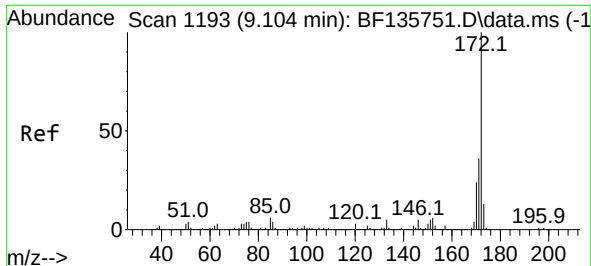


#42
2,4,6-Tribromophenol
Concen: 39.413 ng
RT: 10.575 min Scan# 1443
Delta R.T. -0.012 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29



Tgt Ion:330 Resp: 65387
Ion Ratio Lower Upper
330 100
332 94.1 75.0 112.4
141 38.7 25.8 38.6#





#45

2-Fluorobiphenyl

Concen: 34.834 ng

RT: 9.092 min Scan# 1193

Delta R.T. -0.012 min

Lab File: BF135800.D

Acq: 17 Oct 2023 03:29

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)

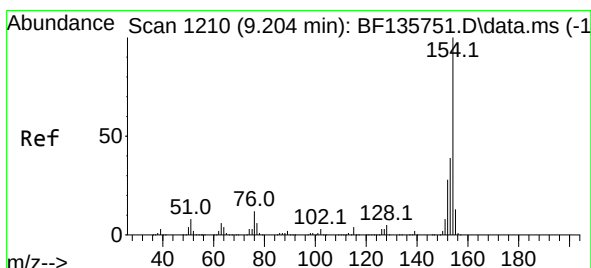
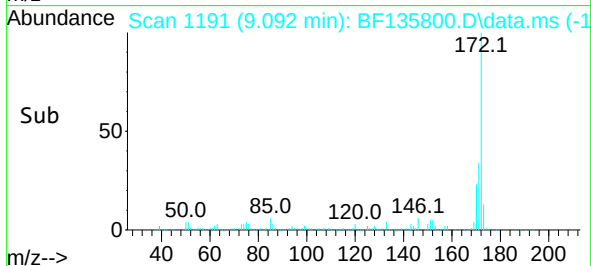
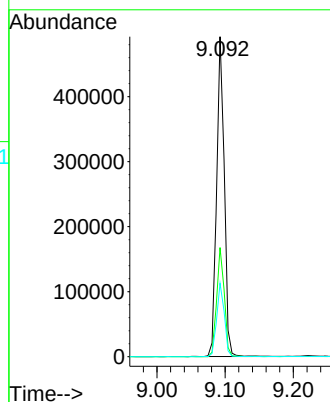
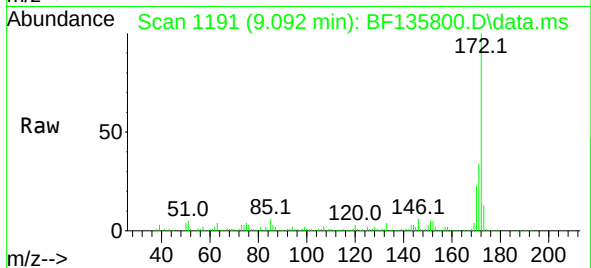
Tgt Ion:172	Resp: 385190
Ion Ratio	Lower Upper
172 100	
171 34.1	28.4 42.6
170 22.9	18.8 28.2

Manual Integrations

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Supervised By :mohammad ahmed 10/18/2023



#46

1,1'-Biphenyl

Concen: 41.457 ng

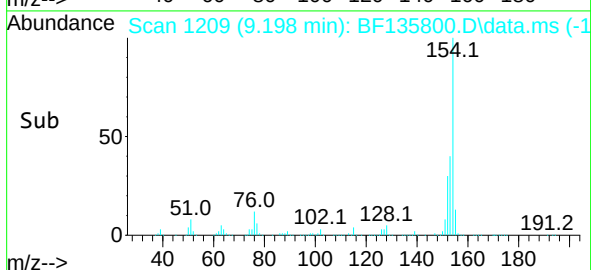
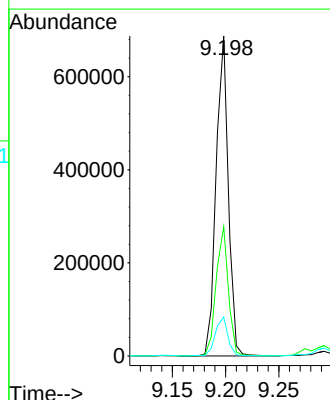
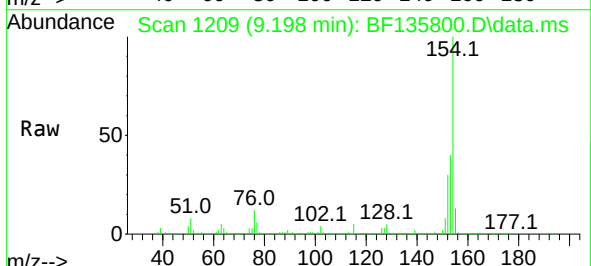
RT: 9.198 min Scan# 1209

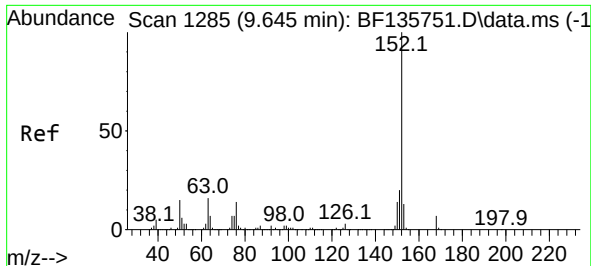
Delta R.T. -0.006 min

Lab File: BF135800.D

Acq: 17 Oct 2023 03:29

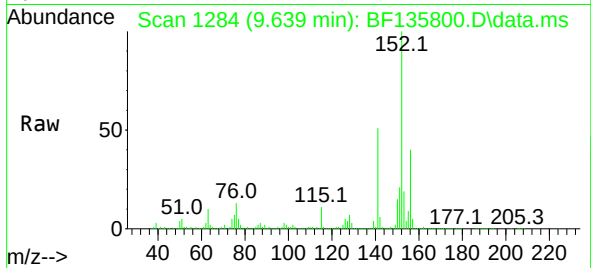
Tgt Ion:154	Resp: 549045
Ion Ratio	Lower Upper
154 100	
153 40.4	19.4 59.4
76 12.2	0.0 31.7





#49
Acenaphthylene
Concen: 45.820 ng
RT: 9.639 min Scan# 1284
Delta R.T. -0.006 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29

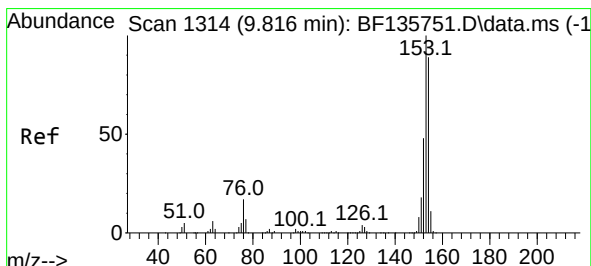
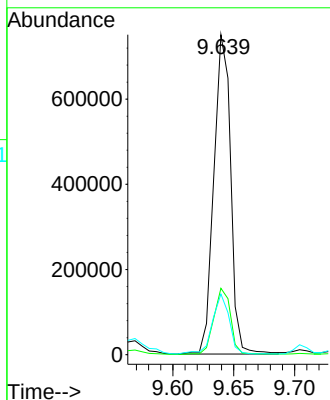
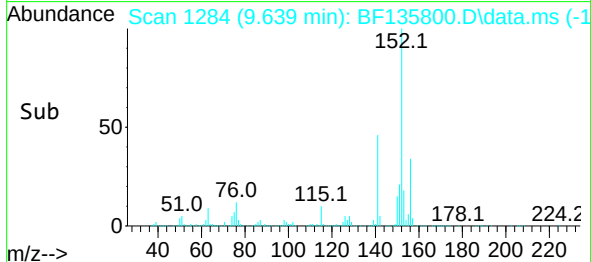
Instrument :
BNA_F
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R-2(5-10)



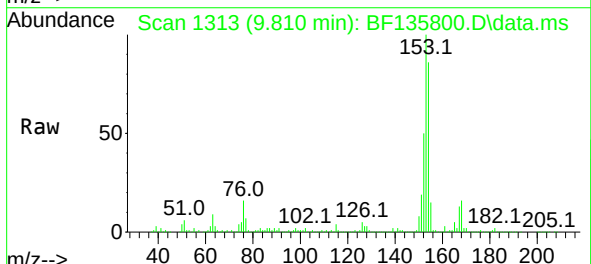
Tgt Ion:152 Resp: 723740
Ion Ratio Lower Upper
152 100
151 20.7 16.2 24.2
153 19.0 10.2 15.4

Manual Integrations
APPROVED

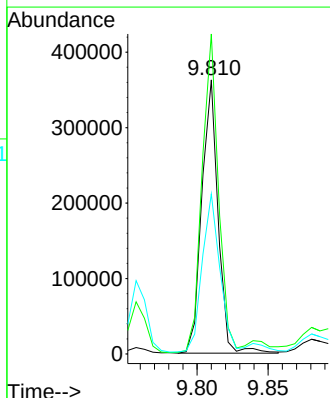
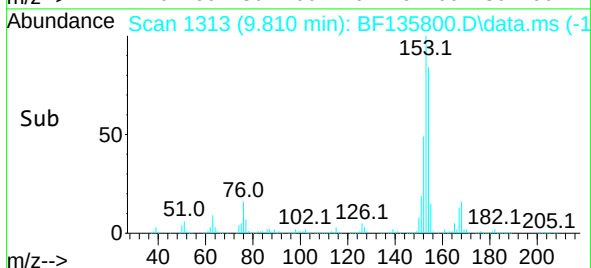
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/18/2023

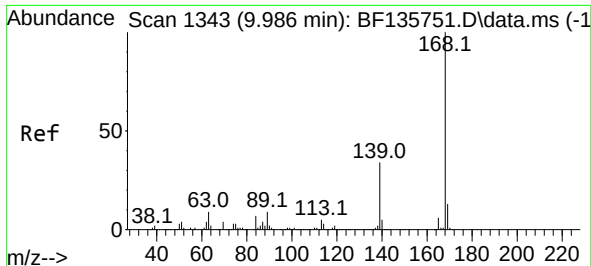


#52
Acenaphthene
Concen: 30.521 ng
RT: 9.810 min Scan# 1313
Delta R.T. -0.006 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29



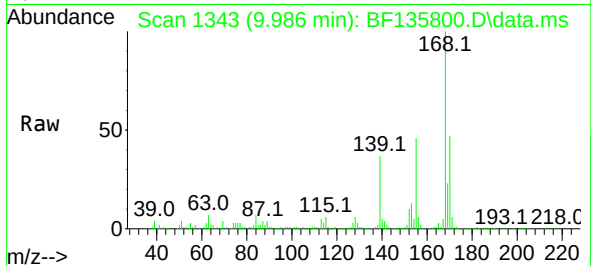
Tgt Ion:154 Resp: 288961
Ion Ratio Lower Upper
154 100
153 116.8 90.1 135.1
152 58.4 43.1 64.7





#55
Dibenzenofuran
Concen: 19.118 ng
RT: 9.986 min Scan# 1343
Delta R.T. -0.006 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29

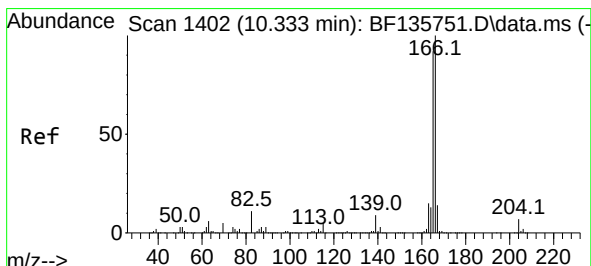
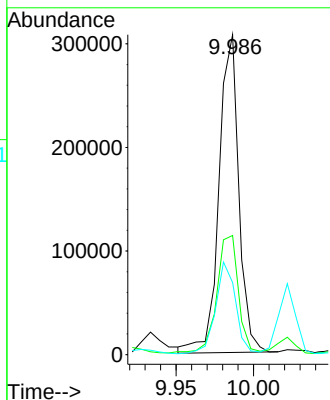
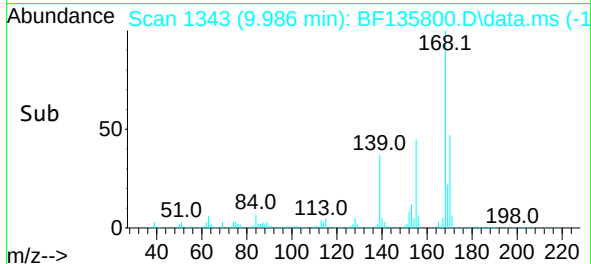
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)



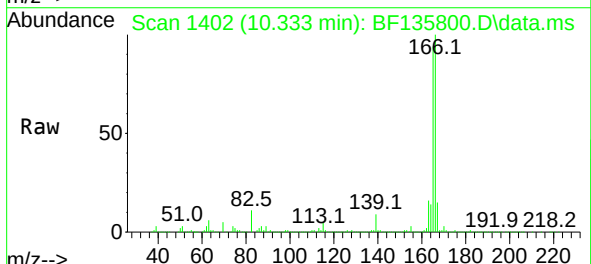
Tgt Ion:168 Resp: 27310
Ion Ratio Lower Upper
168 100
139 37.2 31.0 46.4
169 22.6 10.7 16.1

Manual Integrations
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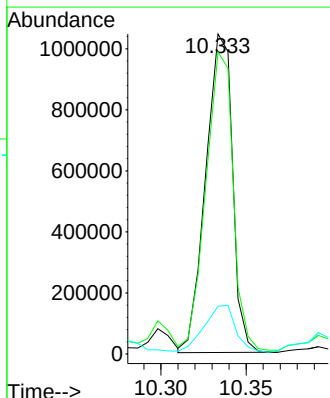
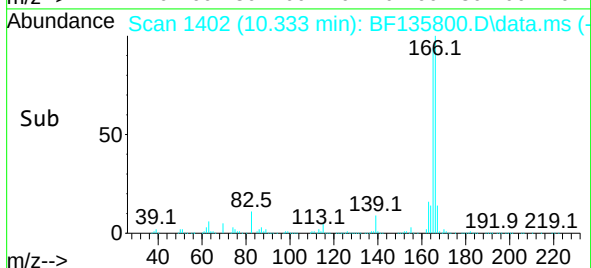
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/18/2023

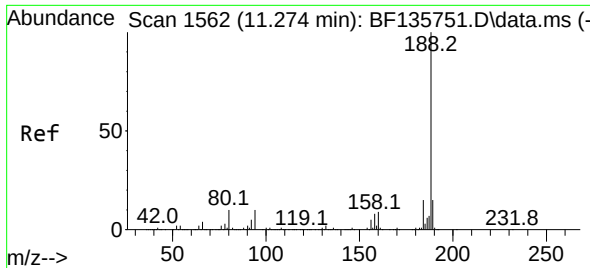


#58
Fluorene
Concen: 102.223 ng
RT: 10.333 min Scan# 1402
Delta R.T. -0.006 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29



Tgt Ion:166 Resp: 1143210
Ion Ratio Lower Upper
166 100
165 94.3 73.4 110.0
167 14.9 11.0 16.6





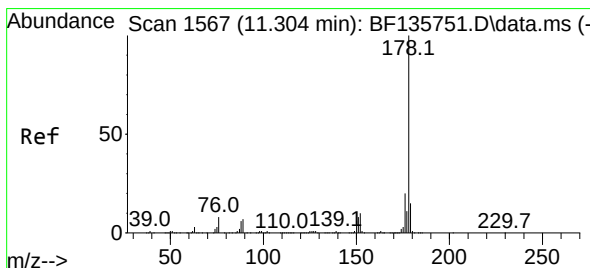
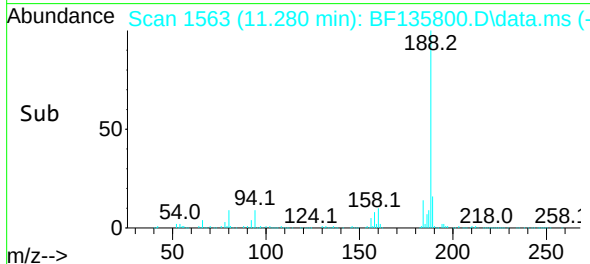
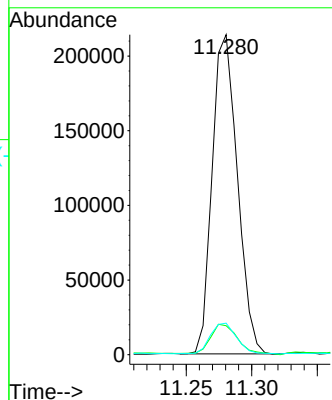
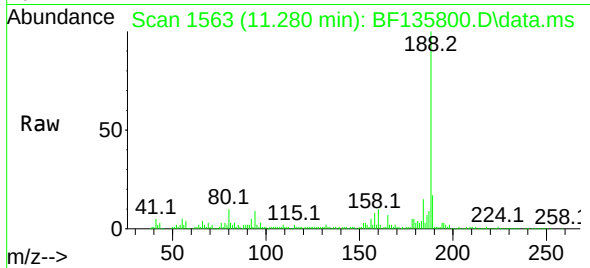
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.280 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29

Instrument :
BNA_F
ClientSampleId :
R-2(5-10)

Tgt Ion:188 Resp: 286050
Ion Ratio Lower Upper
188 100
94 9.0 8.0 12.0
80 9.8 8.3 12.5

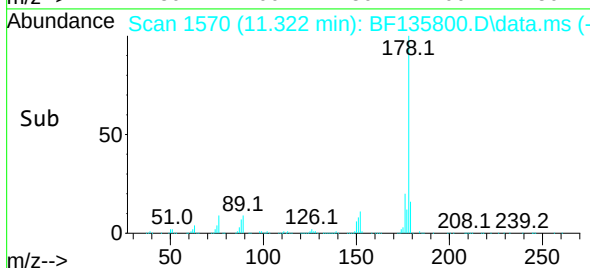
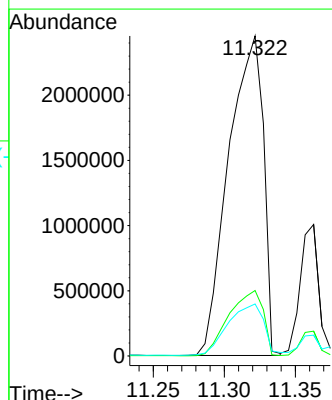
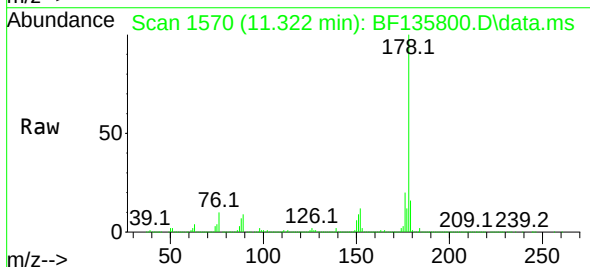
Manual Integrations
APPROVED

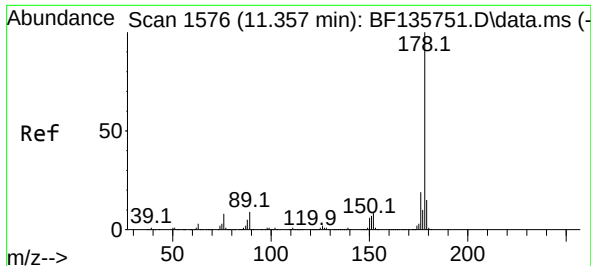
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/18/2023



#71
Phenanthrene
Concen: 304.125 ng
RT: 11.322 min Scan# 1570
Delta R.T. 0.018 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29

Tgt Ion:178 Resp: 4167557
Ion Ratio Lower Upper
178 100
176 20.4 16.0 24.0
179 16.3 12.2 18.4





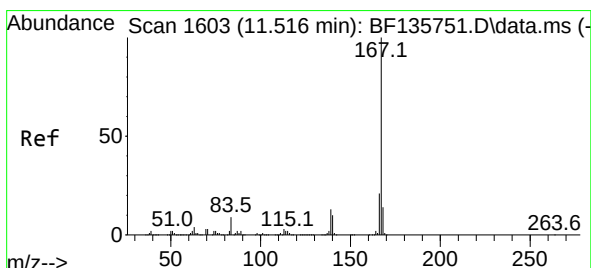
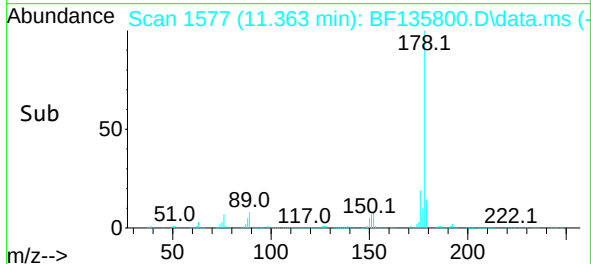
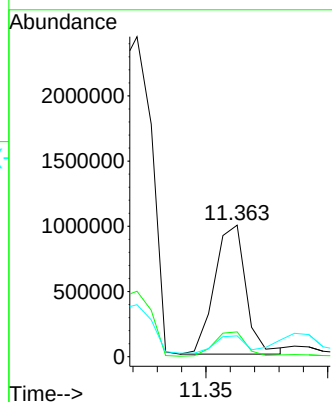
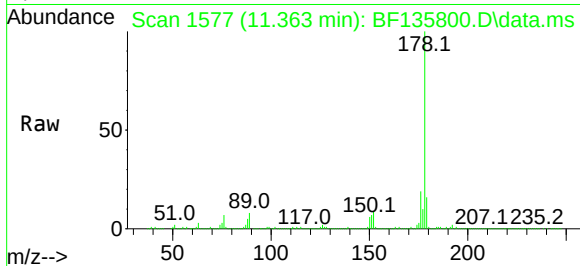
#72
 Anthracene
 Concen: 62.714 ng
 RT: 11.363 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: BF135800.D
 Acq: 17 Oct 2023 03:29

Instrument :
 BNA_F
 ClientSampleId :
 R-2(5-10)

Tgt Ion:178 Resp: 890530
 Ion Ratio Lower Upper
 178 100
 176 18.9 15.1 22.7
 179 15.8 12.3 18.5

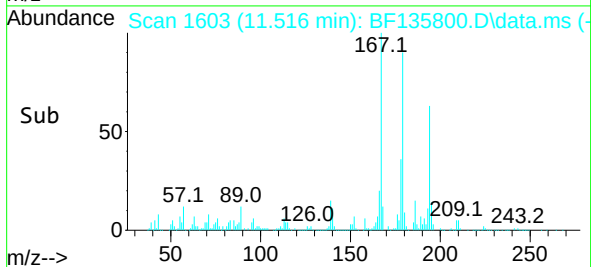
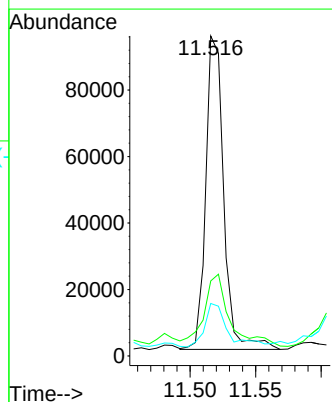
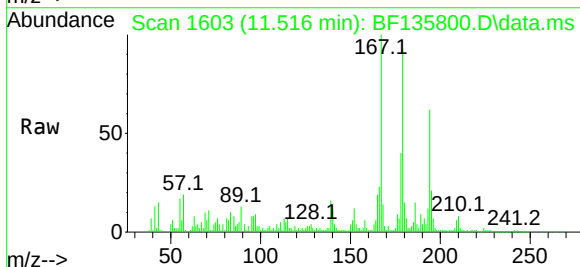
Manual Integrations
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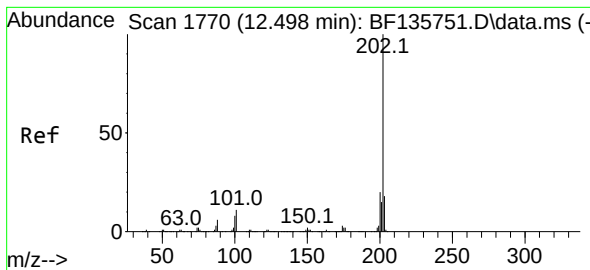
Reviewed By :Yogesh Patel 10/17/2023
 Supervised By :mohammad ahmed 10/18/2023



#73
 Carbazole
 Concen: 6.813 ng
 RT: 11.516 min Scan# 1603
 Delta R.T. -0.006 min
 Lab File: BF135800.D
 Acq: 17 Oct 2023 03:29

Tgt Ion:167 Resp: 90221
 Ion Ratio Lower Upper
 167 100
 166 23.4 17.1 25.7
 139 16.4 10.2 15.4#





#75

Fluoranthene

Concen: 160.731 ng

RT: 12.516 min Scan# 11

Delta R.T. 0.012 min

Lab File: BF135800.D

Acq: 17 Oct 2023 03:29

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)

Tgt Ion:202 Resp: 244456

Ion Ratio Lower Upper

202 100

101 11.8 0.0 31.5

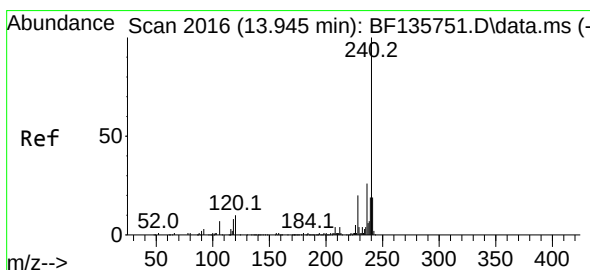
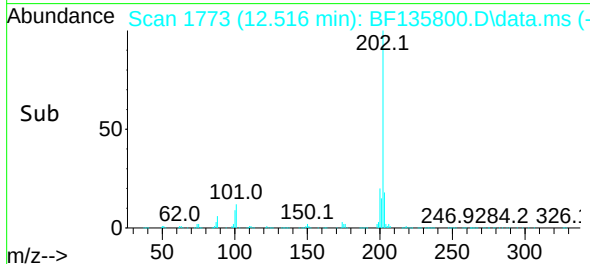
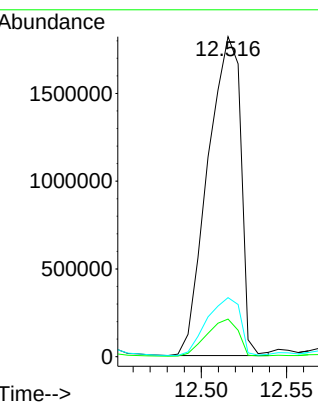
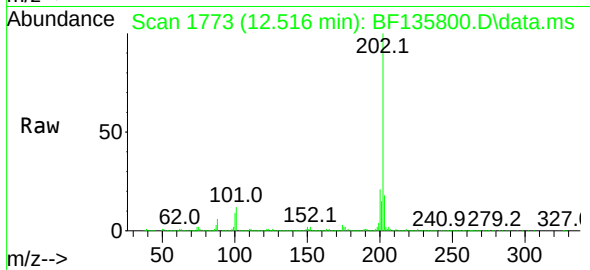
203 18.5 0.0 38.3

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/18/2023



#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.951 min Scan# 2017

Delta R.T. -0.000 min

Lab File: BF135800.D

Acq: 17 Oct 2023 03:29

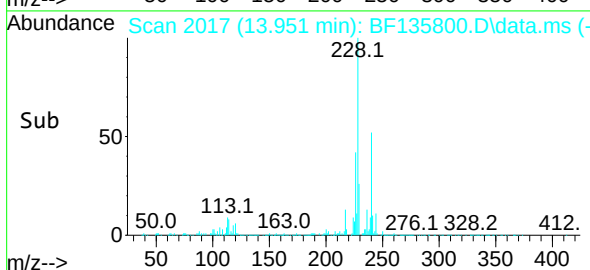
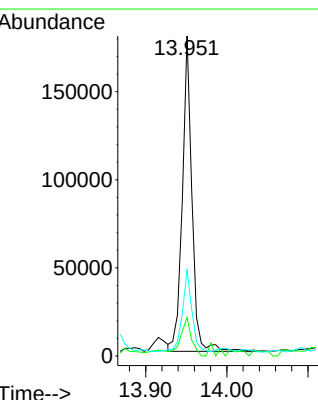
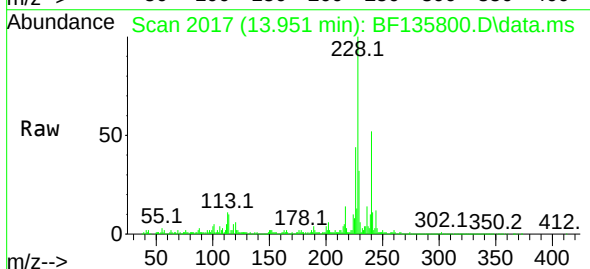
Tgt Ion:240 Resp: 148613

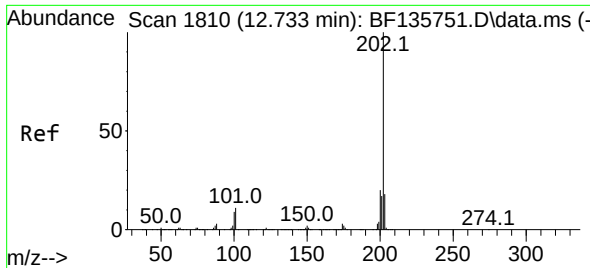
Ion Ratio Lower Upper

240 100

120 12.0 8.2 12.2

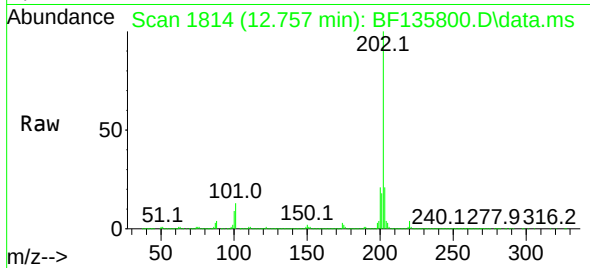
236 26.9 21.2 31.8





#78
Pyrene
Concen: 271.782 ng
RT: 12.757 min Scan# 1814
Delta R.T. 0.023 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29

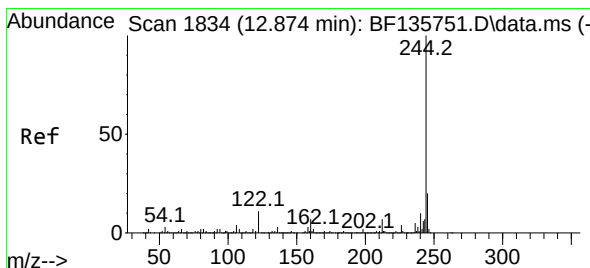
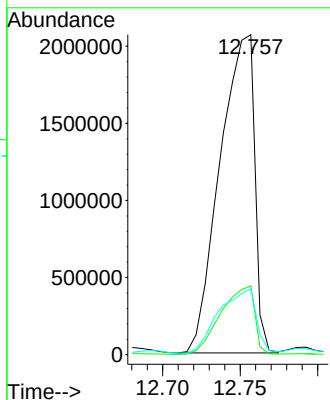
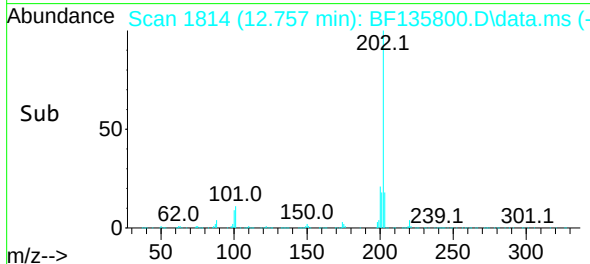
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)



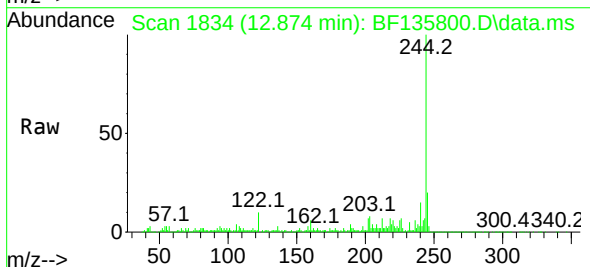
Tgt Ion:202 Resp: 320962
Ion Ratio Lower Upper
202 100
200 21.5 16.1 24.1
203 20.6 14.2 21.2

Manual Integrations
APPROVED

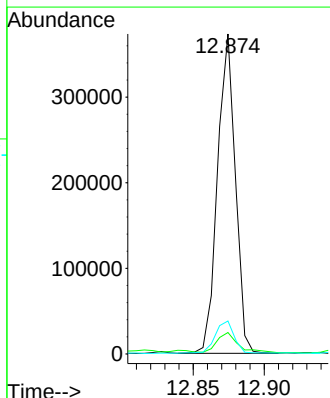
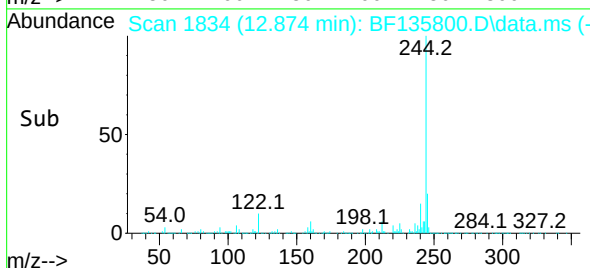
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/18/2023

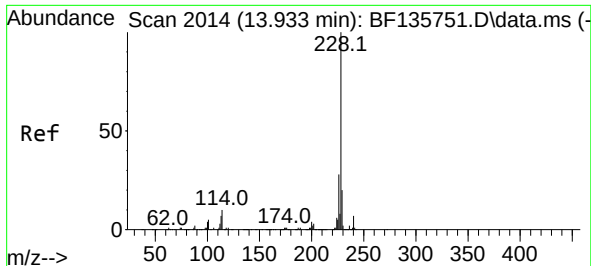


#79
Terphenyl-d14
Concen: 40.598 ng
RT: 12.874 min Scan# 1834
Delta R.T. -0.006 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29



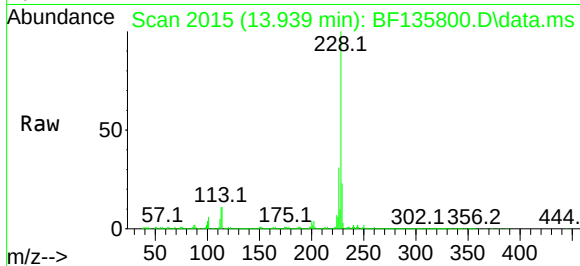
Tgt Ion:244 Resp: 325792
Ion Ratio Lower Upper
244 100
212 6.7 5.6 8.4
122 10.3 9.0 13.6





#81
Benzo(a)anthracene
Concen: 133.020 ng
RT: 13.939 min Scan# 2014
Delta R.T. -0.000 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29

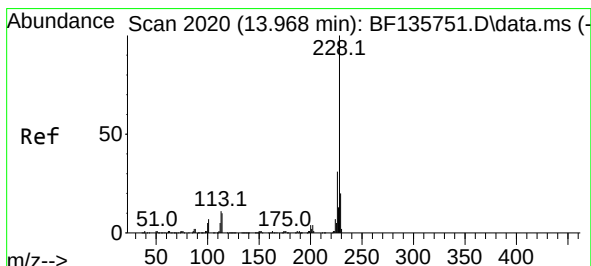
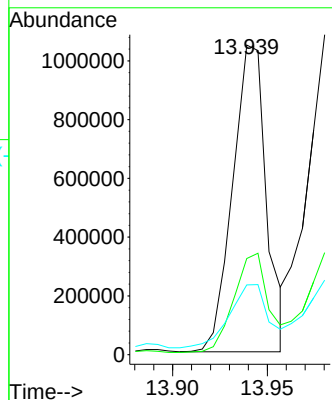
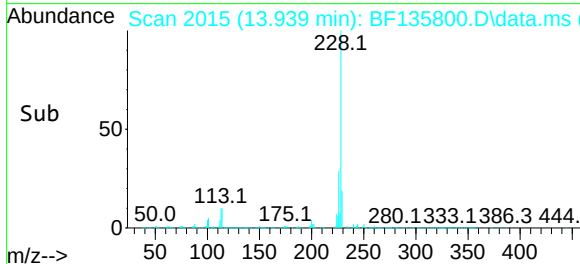
Instrument :
BNA_F
ClientSampleId :
R-2(5-10)



Tgt Ion:228 Resp: 129847
Ion Ratio Lower Upper
228 100
226 31.0 22.2 33.2
229 22.5 16.1 24.1

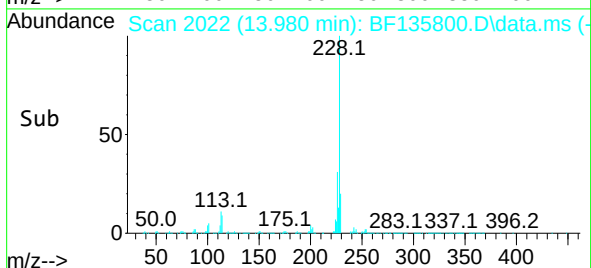
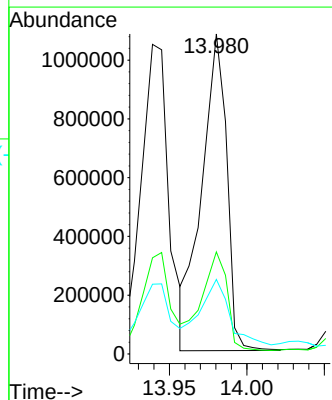
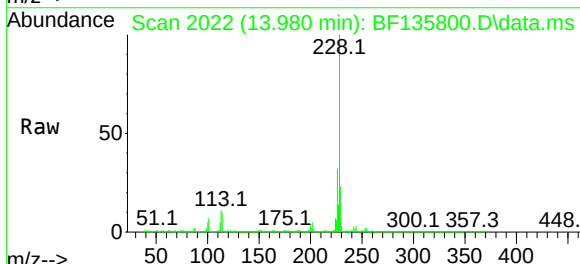
Manual Integrations
APPROVED

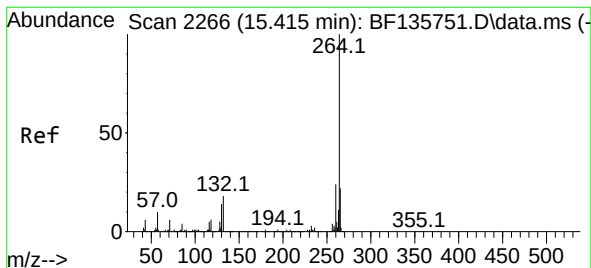
Reviewed By :Yogesh Patel 10/17/2023
Supervised By :mohammad ahmed 10/18/2023



#83
Chrysene
Concen: 128.250 ng
RT: 13.980 min Scan# 2022
Delta R.T. 0.006 min
Lab File: BF135800.D
Acq: 17 Oct 2023 03:29

Tgt Ion:228 Resp: 1212575
Ion Ratio Lower Upper
228 100
226 31.9 24.4 36.6
229 23.3 15.7 23.5





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.427 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF135800.D

Acq: 17 Oct 2023 03:29

Instrument :

BNA_F

ClientSampleId :

R-2(5-10)

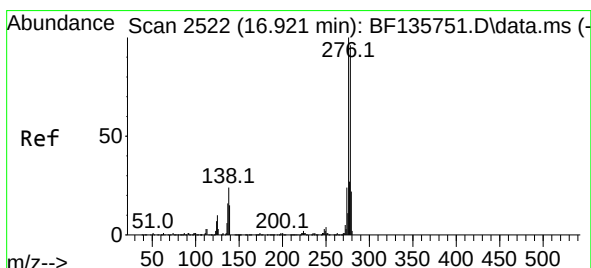
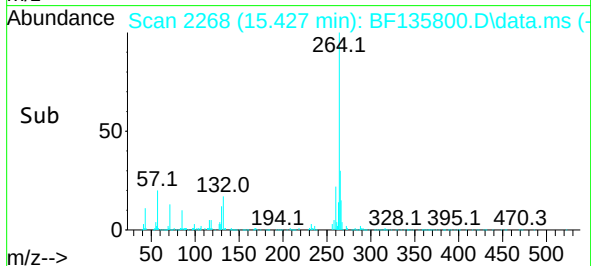
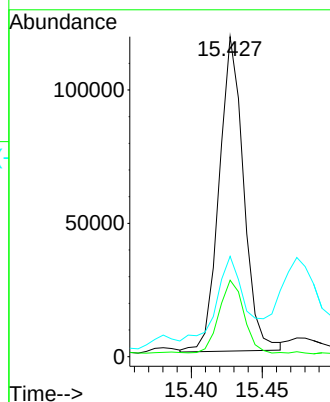
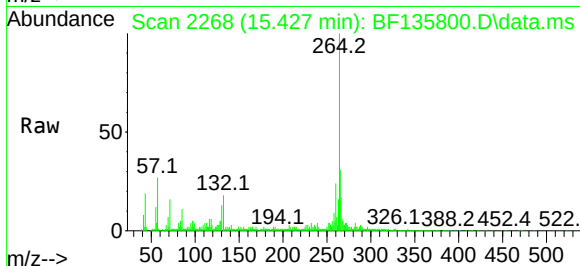
Tgt Ion:	264	Resp:	141480
Ion Ratio	Lower	Upper	
264	100		
260	23.9	19.2	28.8
265	31.3	17.4	26.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/18/2023



#87

Indeno(1,2,3-cd)pyrene

Concen: 43.451 ng

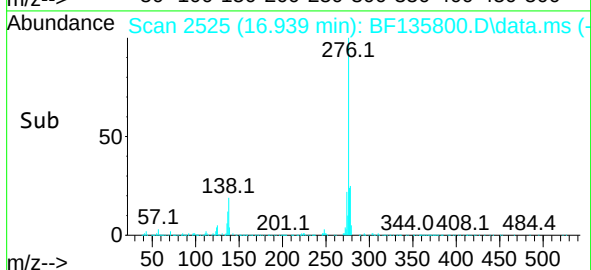
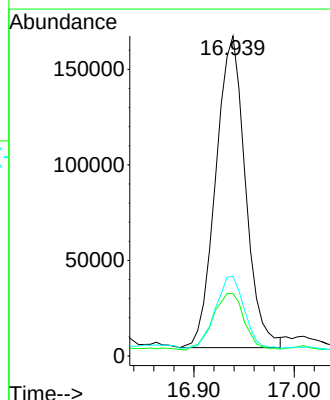
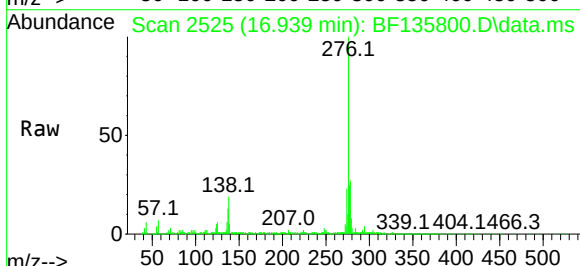
RT: 16.939 min Scan# 2525

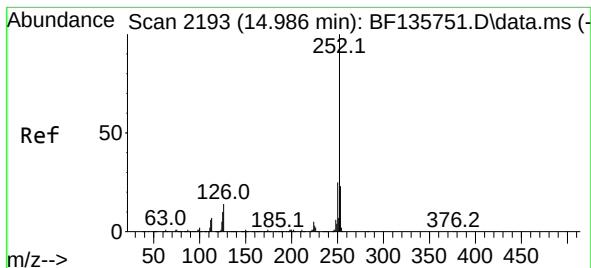
Delta R.T. 0.006 min

Lab File: BF135800.D

Acq: 17 Oct 2023 03:29

Tgt Ion:	276	Resp:	334961
Ion Ratio	Lower	Upper	
276	100		
138	19.2	19.8	29.6
277	22.5	20.2	30.4





#88

Benzo(b)fluoranthene

Concen: 99.004 ng m

RT: 15.004 min Scan# 2196

Delta R.T. 0.012 min

Lab File: BF135800.D

Acq: 17 Oct 2023 03:29

Instrument :

BNF

ClientSampleId :

R-2(5-10)

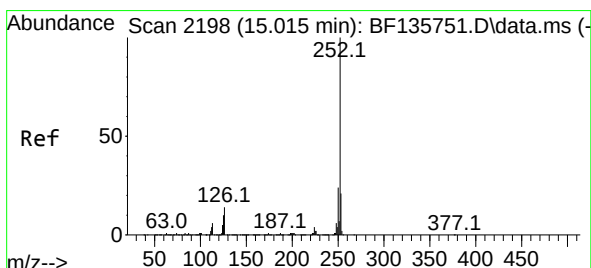
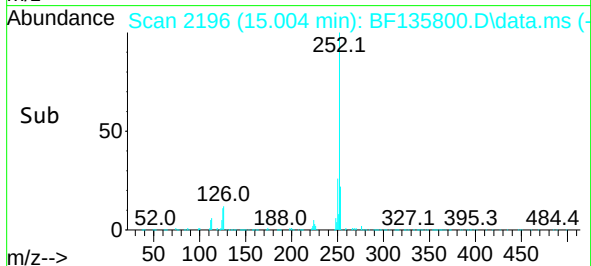
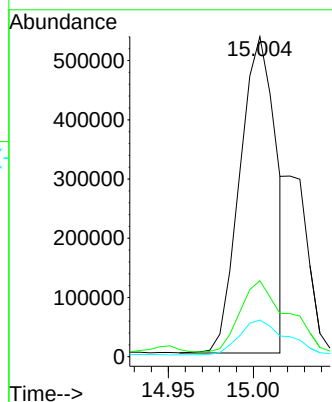
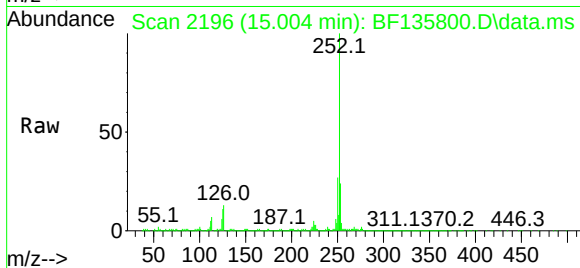
Tgt Ion:252 Resp: 783925
 Ion Ratio Lower Upper
 252 100
 253 23.8 18.2 27.2
 125 11.4 8.2 12.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/17/2023

Supervised By :mohammad ahmed 10/18/2023



#89

Benzo(k)fluoranthene

Concen: 36.202 ng m

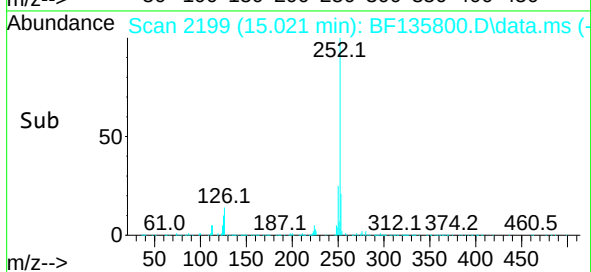
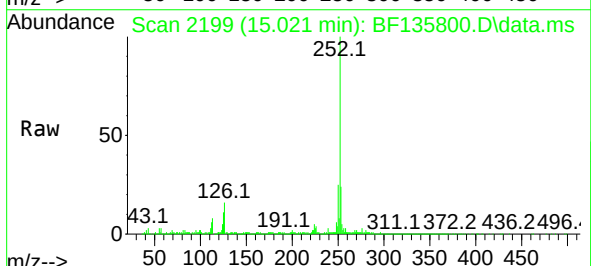
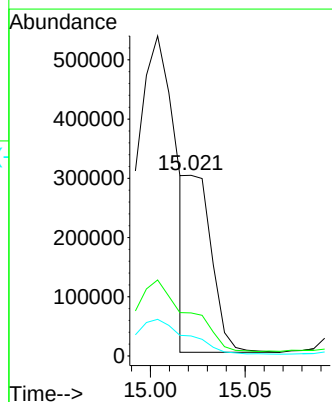
RT: 15.021 min Scan# 2199

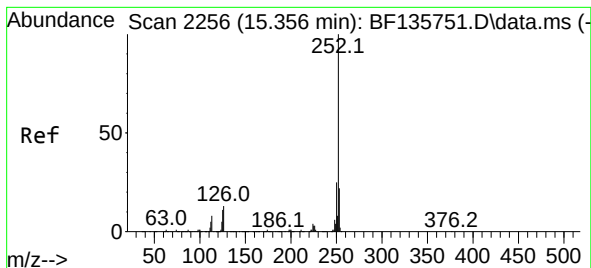
Delta R.T. -0.000 min

Lab File: BF135800.D

Acq: 17 Oct 2023 03:29

Tgt Ion:252 Resp: 278297
 Ion Ratio Lower Upper
 252 100
 253 23.9 17.4 26.0
 125 11.1 8.3 12.5





#90

Benzo(a)pyrene

Concen: 114.130 ng

RT: 15.374 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF135800.D

Acq: 17 Oct 2023 03:29

Instrument :

BNA_F

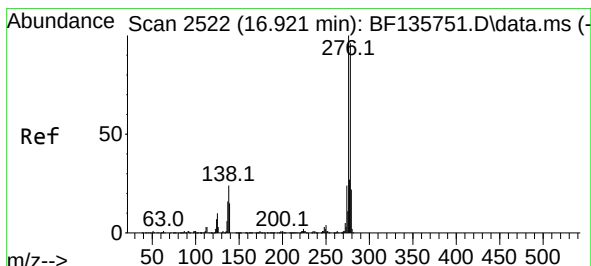
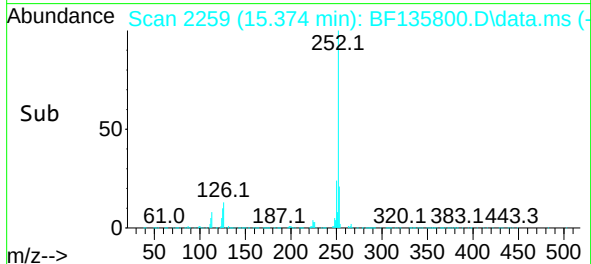
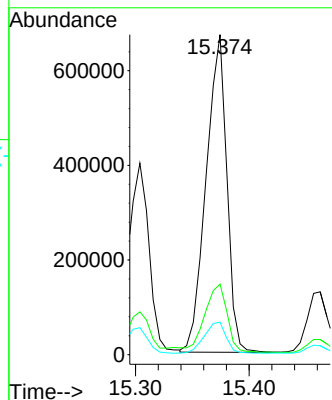
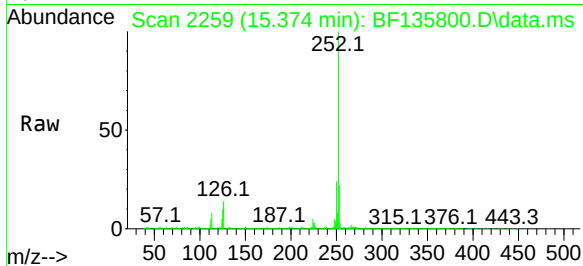
ClientSampleId :

R-2(5-10)

Tgt Ion:252 Resp: 84978
 Ion Ratio Lower Upper
 252 100
 253 22.0 17.4 26.2
 125 10.1 8.8 13.2

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/17/2023
 Supervised By :mohammad ahmed 10/18/2023



#91

Dibenzo(a,h)anthracene

Concen: 15.929 ng

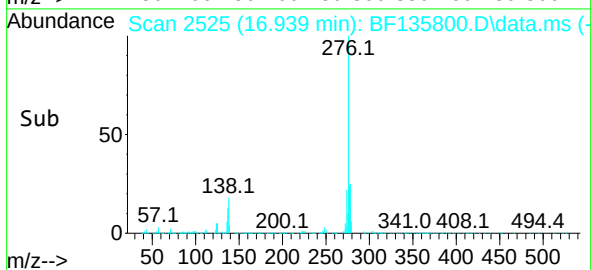
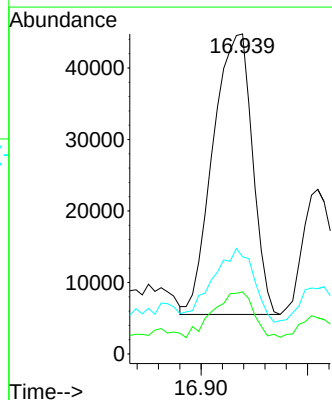
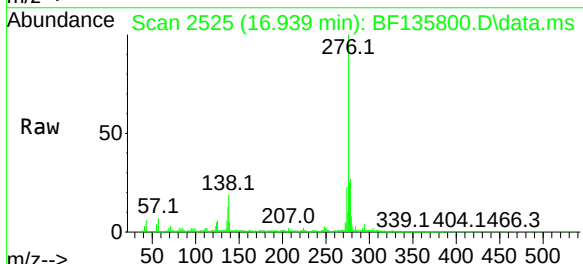
RT: 16.939 min Scan# 2525

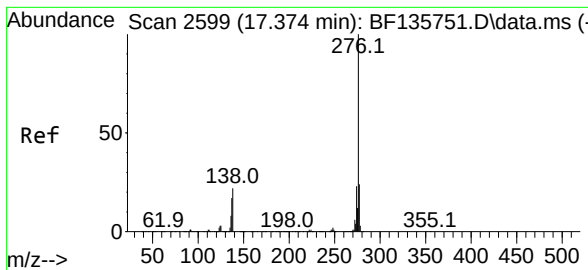
Delta R.T. -0.000 min

Lab File: BF135800.D

Acq: 17 Oct 2023 03:29

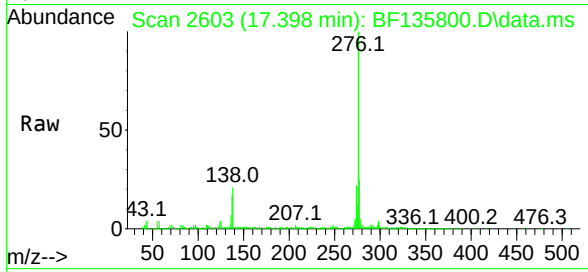
Tgt Ion:278 Resp: 100665
 Ion Ratio Lower Upper
 278 100
 139 19.4 12.5 18.7#
 279 30.4 18.6 27.8#





#92
 Benzo(g,h,i)perylene
 Concen: 54.969 ng
 RT: 17.398 min Scan# 20
 Delta R.T. 0.012 min
 Lab File: BF135800.D
 Acq: 17 Oct 2023 03:29

Instrument :
 BNA_F
 ClientSampleId :
 R-2(5-10)



Tgt Ion: 276 Resp: 35683

Ion	Ratio	Lower	Upper
276	100		
277	25.1	19.4	29.2
138	20.9	17.3	25.9

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/17/2023
 Supervised By :mohammad ahmed 10/18/2023

