

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101823\
 Data File : BF135867.D
 Acq On : 19 Oct 2023 01:29
 Operator : CG\JU
 Sample : 04767-02
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 E-1(0-5)

Manual Integrations
 APPROVED

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

Quant Time: Oct 19 02:12:18 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	100328	20.000	ng	-0.01
21) Naphthalene-d8	8.016	136	367442	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	174224	20.000	ng	-0.01
64) Phenanthrene-d10	11.269	188	274505	20.000	ng	-0.01
76) Chrysene-d12	13.939	240	184799	20.000	ng	-0.01
86) Perylene-d12	15.421	264	194135	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.375	112	518980	83.166	ng	0.00
7) Phenol-d6	6.393	99	638672	82.027	ng	0.00
23) Nitrobenzene-d5	7.304	82	391422	58.589	ng	-0.01
42) 2,4,6-Tribromophenol	10.575	330	128485	76.853	ng	-0.01
45) 2-Fluorobiphenyl	9.092	172	672581	60.358	ng	-0.01
79) Terphenyl-d14	12.869	244	518593	51.969	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.039	128	146546	8.177	ng	99
37) 2-Methylnaphthalene	8.734	142	33605	2.846	ng	93
38) 1-Methylnaphthalene	8.828	142	74470	6.838	ng	99
49) Acenaphthylene	9.633	152	179883	11.301	ng	97
52) Acenaphthene	9.804	154	67878	7.115	ng	99
55) Dibenzofuran	9.981	168	149701	10.399	ng	# 98
58) Fluorene	10.328	166	73038	6.481	ng	97
71) Phenanthrene	11.298	178	1030730	78.382	ng	99
72) Anthracene	11.351	178	419577	30.791	ng	99
73) Carbazole	11.516	167	58786	4.626	ng	99
75) Fluoranthene	12.504	202	1179383	80.808	ng	98
78) Pyrene	12.733	202	1176873	80.141	ng	100
81) Benzo(a)anthracene	13.933	228	605322	49.869	ng	96
83) Chrysene	13.969	228	518803m	44.128	ng	
87) Indeno(1,2,3-cd)pyrene	16.927	276	161408	15.259	ng	# 93
88) Benzo(b)fluoranthene	14.992	252	566939m	52.180	ng	
89) Benzo(k)fluoranthene	15.015	252	175634m	16.650	ng	
90) Benzo(a)pyrene	15.363	252	414370	40.558	ng	97
91) Dibenzo(a,h)anthracene	16.927	278	46138m	5.321	ng	
92) Benzo(g,h,i)perylene	17.386	276	142473	15.995	ng	98

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

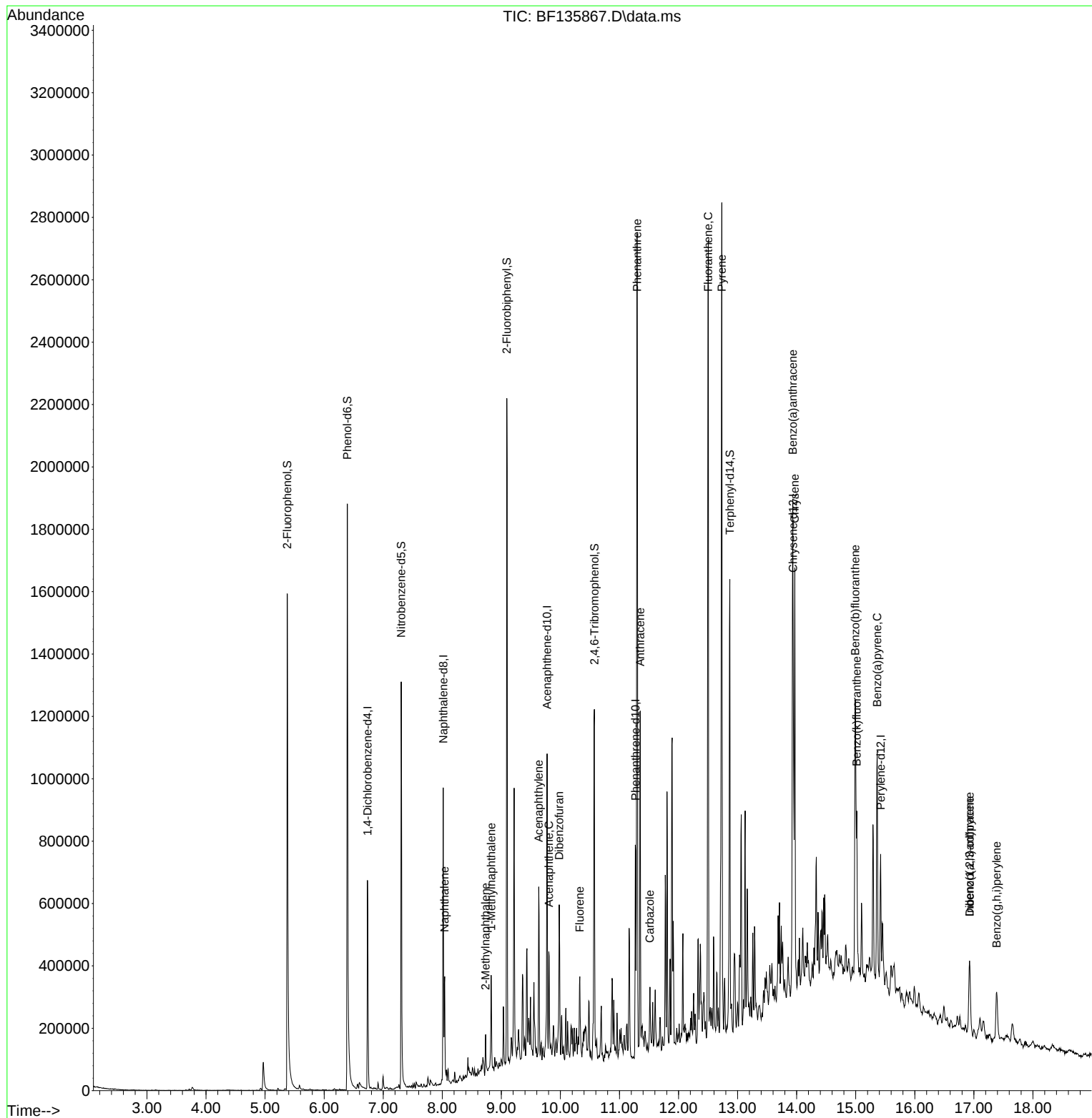
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101823\
Data File : BF135867.D
Acq On : 19 Oct 2023 01:29
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Misc :
ALS Vial : 13 Sample Multiplier: 1

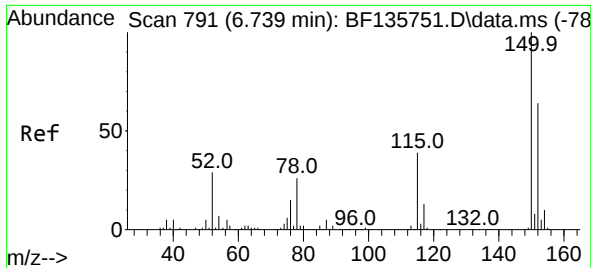
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)

Quant Time: Oct 19 02:12:18 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

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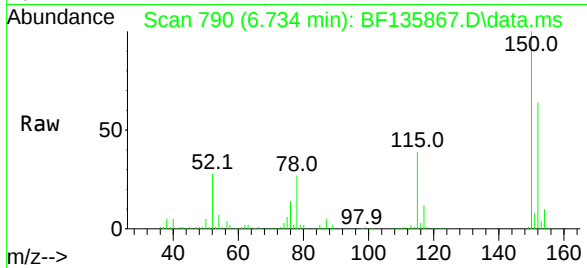
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.734 min Scan# 791
Delta R.T. -0.012 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29

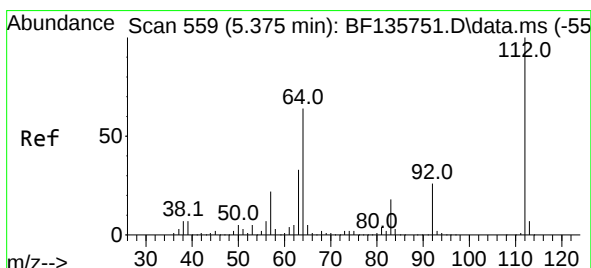
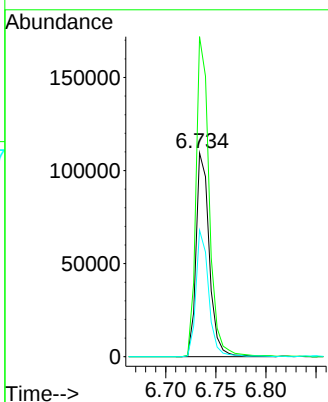
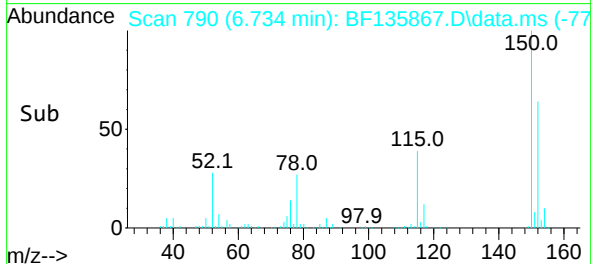
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)



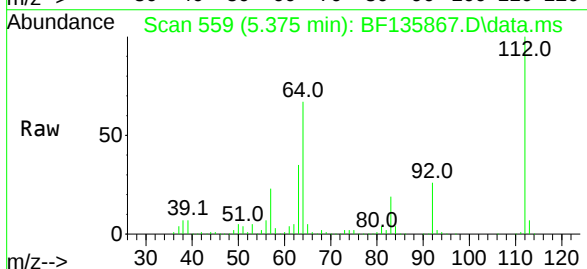
Tgt Ion:152 Resp: 100328
Ion Ratio Lower Upper
152 100
150 157.1 124.5 186.7
115 62.0 49.0 73.4

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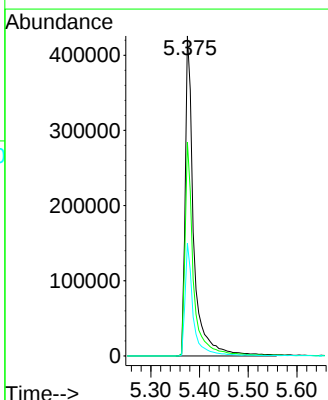
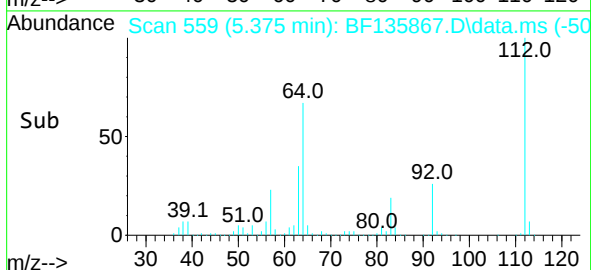
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023

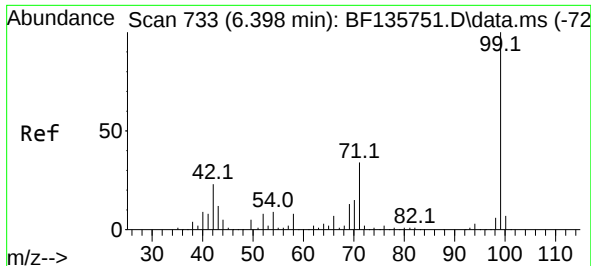


#5
2-Fluorophenol
Concen: 83.166 ng
RT: 5.375 min Scan# 559
Delta R.T. -0.000 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29



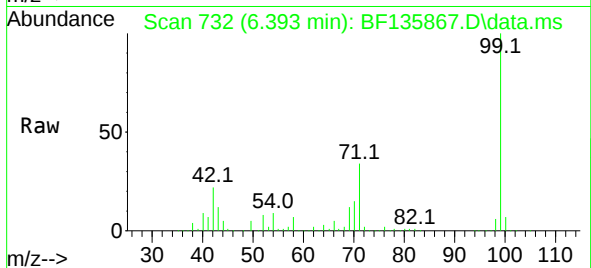
Tgt Ion:112 Resp: 518980
Ion Ratio Lower Upper
112 100
64 66.8 51.2 76.8
63 35.2 26.1 39.1





#7
Phenol-d6
Concen: 82.027 ng
RT: 6.393 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29

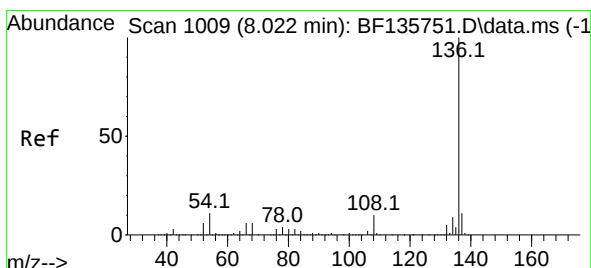
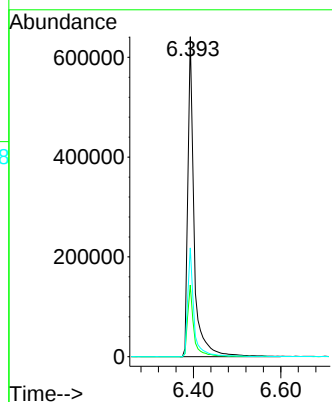
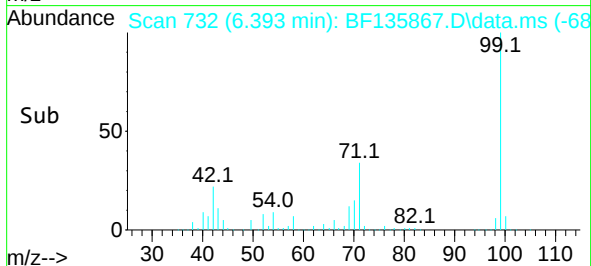
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)



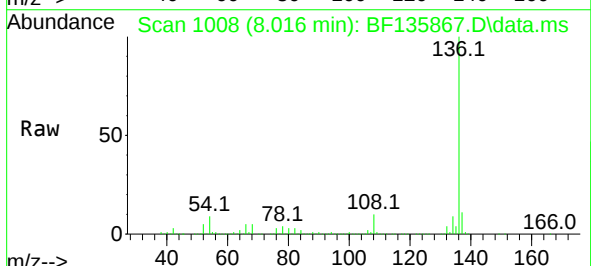
Tgt Ion: 99 Resp: 638672
Ion Ratio Lower Upper
99 100
42 22.4 18.4 27.6
71 34.0 27.2 40.8

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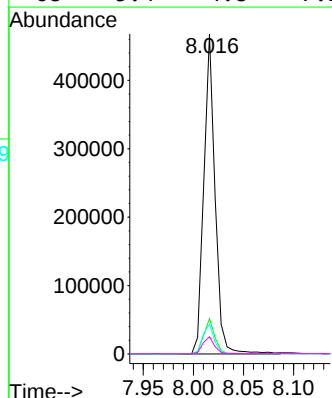
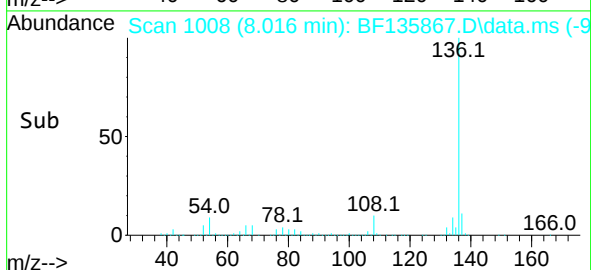
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023

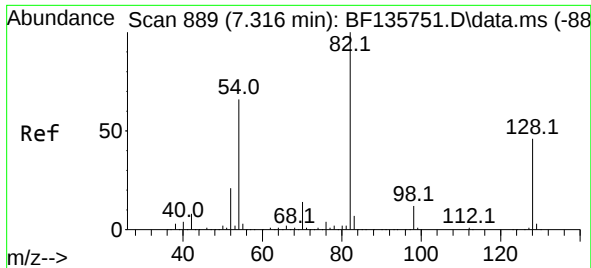


#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.016 min Scan# 1008
Delta R.T. -0.006 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29



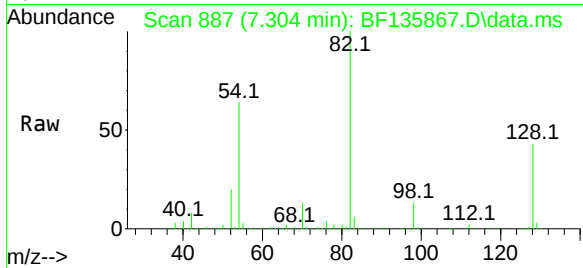
Tgt Ion:136 Resp: 367442
Ion Ratio Lower Upper
136 100
137 11.1 8.6 12.8
54 9.4 8.5 12.7
68 5.4 4.8 7.2





#23
Nitrobenzene-d5
Concen: 58.589 ng
RT: 7.304 min Scan# 81
Delta R.T. -0.012 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29

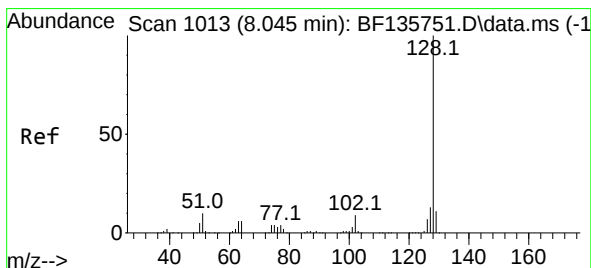
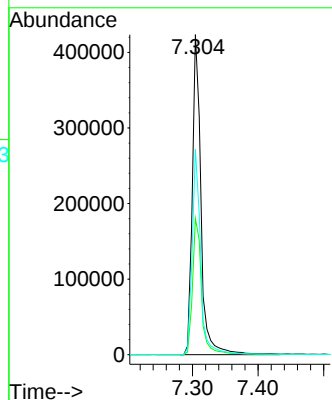
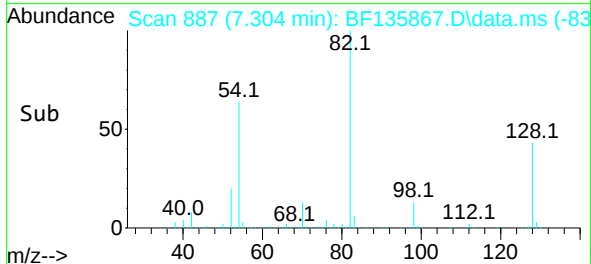
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)



Tgt Ion: 82 Resp: 39142
Ion Ratio Lower Upper
82 100
128 42.6 37.0 55.6
54 64.2 52.8 79.2

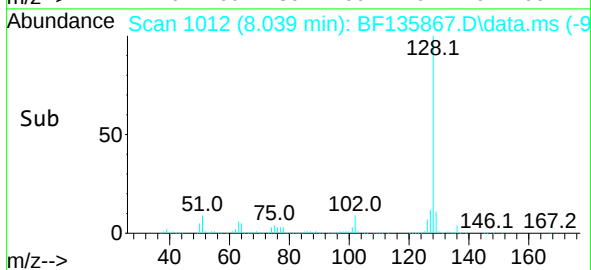
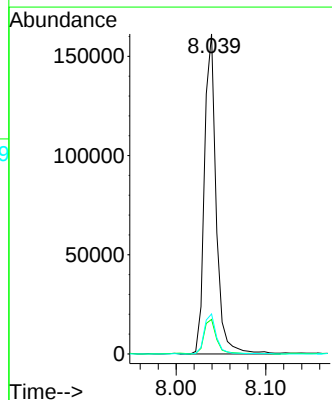
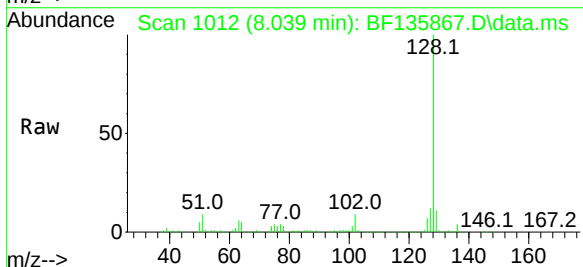
Manual Integrations
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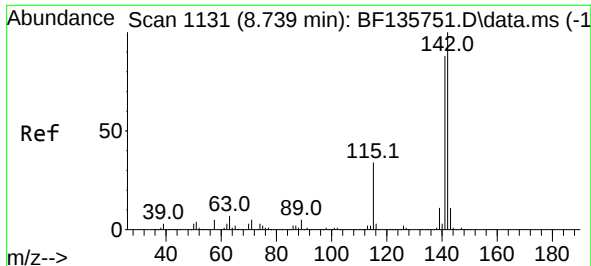
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023



#31
Naphthalene
Concen: 8.177 ng
RT: 8.039 min Scan# 1012
Delta R.T. -0.006 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29

Tgt Ion:128 Resp: 146546
Ion Ratio Lower Upper
128 100
129 10.8 8.7 13.1
127 12.5 10.2 15.4





#37

2-Methylnaphthalene

Concen: 2.846 ng

RT: 8.734 min Scan# 1131

Delta R.T. -0.006 min

Lab File: BF135867.D

Acq: 19 Oct 2023 01:29

Instrument :

BNA_F

ClientSampleId :

E-1(0-5)

Tgt Ion:142 Resp: 3360

Ion Ratio Lower Upper

142 100

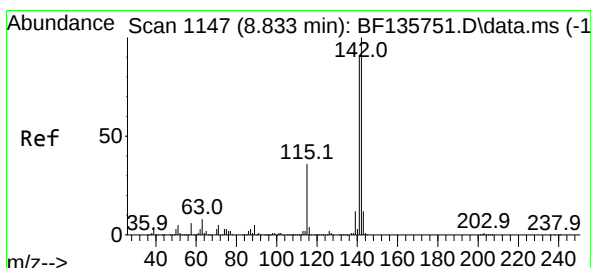
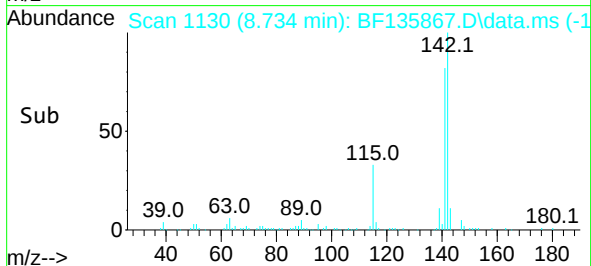
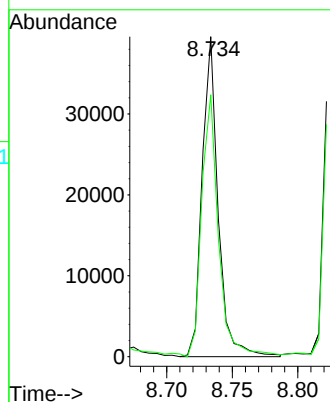
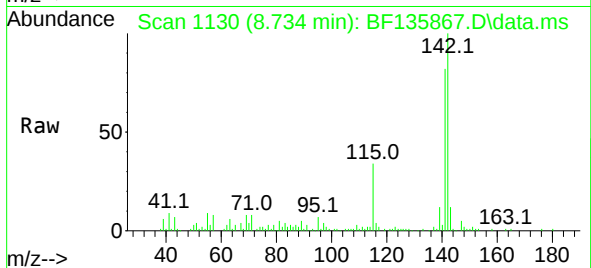
141 81.9 70.6 105.8

Manual Integrations

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Reviewed By :Yogesh Patel 10/19/2023

Supervised By :mohammad ahmed 10/20/2023



#38

1-Methylnaphthalene

Concen: 6.838 ng

RT: 8.828 min Scan# 1146

Delta R.T. -0.012 min

Lab File: BF135867.D

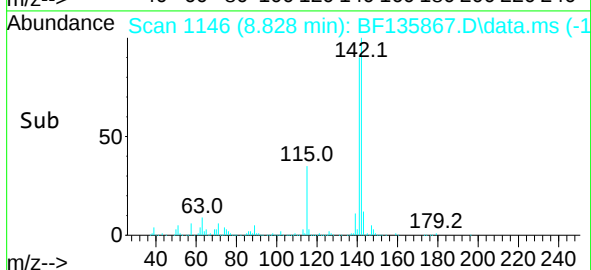
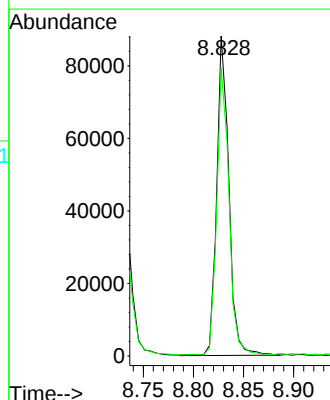
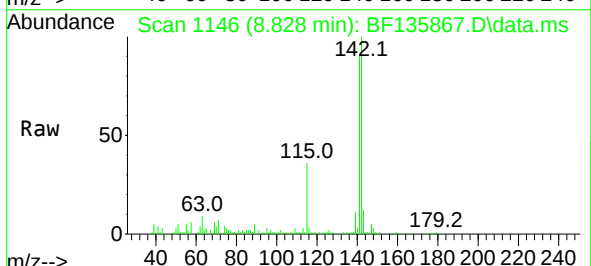
Acq: 19 Oct 2023 01:29

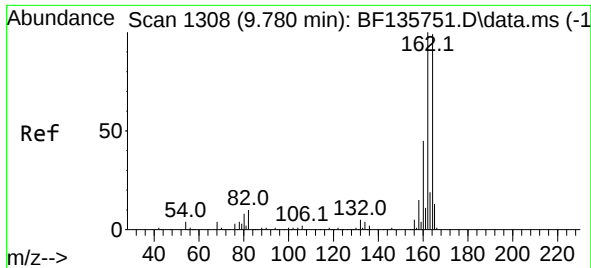
Tgt Ion:142 Resp: 74470

Ion Ratio Lower Upper

142 100

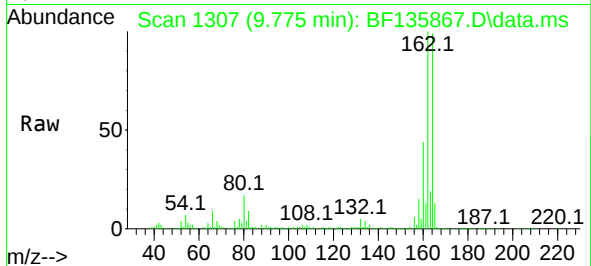
141 90.1 72.7 109.1





#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29

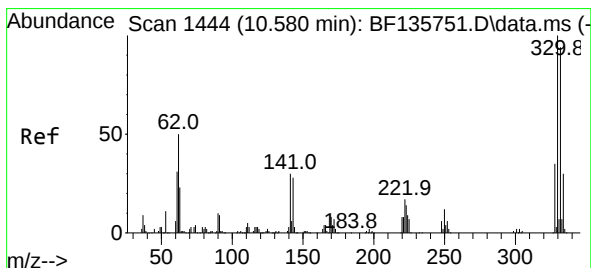
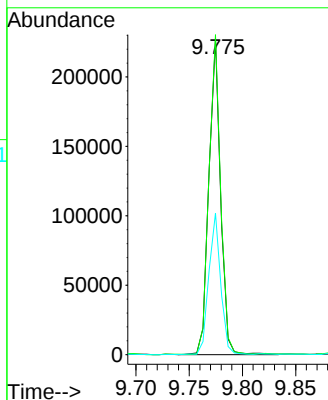
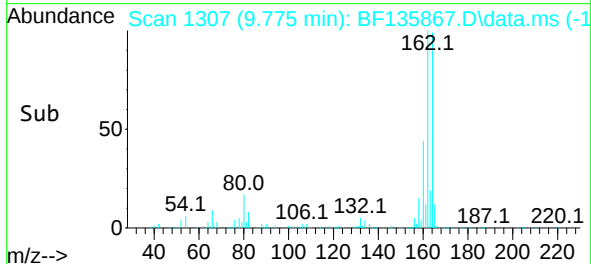
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)



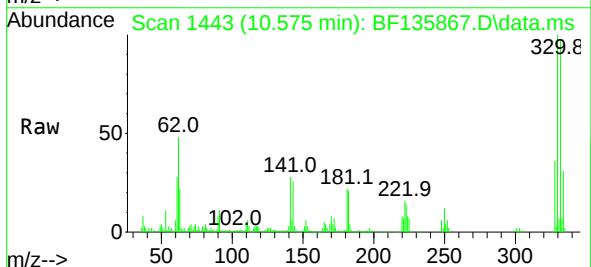
Tgt Ion:164 Resp: 174224
Ion Ratio Lower Upper
164 100
162 101.4 80.8 121.2
160 44.9 36.6 54.8

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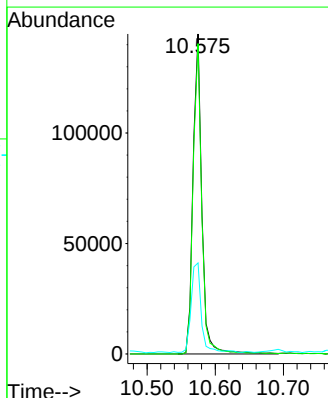
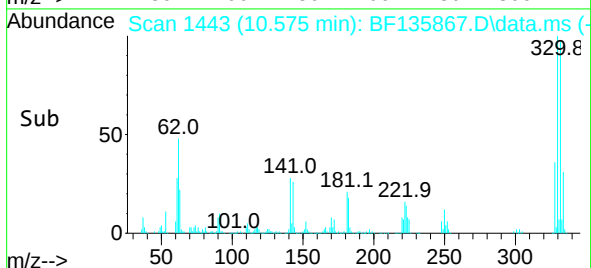
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023

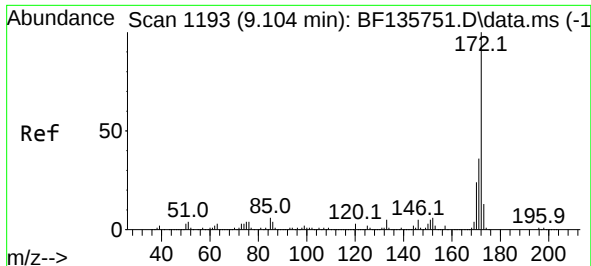


#42
2,4,6-Tribromophenol
Concen: 76.853 ng
RT: 10.575 min Scan# 1443
Delta R.T. -0.012 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29



Tgt Ion:330 Resp: 128485
Ion Ratio Lower Upper
330 100
332 95.3 75.0 112.4
141 31.5 25.8 38.6





#45

2-Fluorobiphenyl

Concen: 60.358 ng

RT: 9.092 min Scan# 1193

Delta R.T. -0.012 min

Lab File: BF135867.D

Acq: 19 Oct 2023 01:29

Instrument :

BNA_F

ClientSampleId :

E-1(0-5)

Tgt Ion:172 Resp: 67258

Ion Ratio Lower Upper

172 100

171 35.0 28.4 42.6

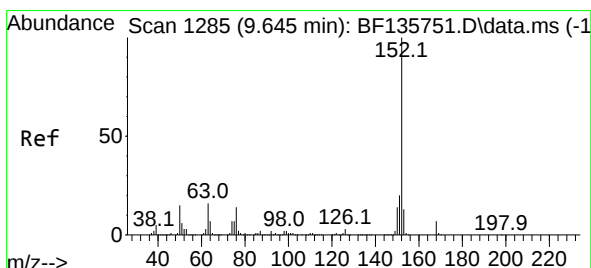
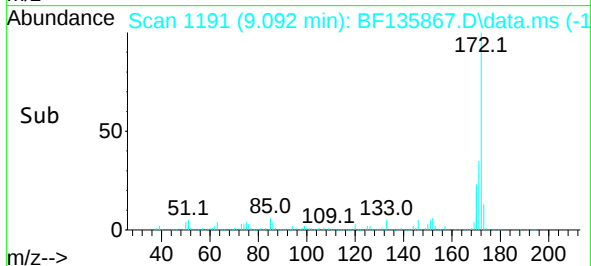
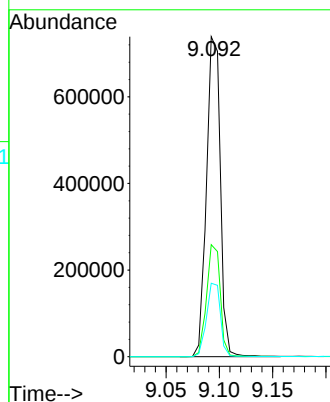
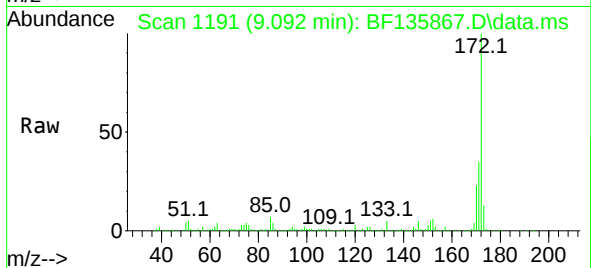
170 23.0 18.8 28.2

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/19/2023

Supervised By :mohammad ahmed 10/20/2023



#49

Acenaphthylene

Concen: 11.301 ng

RT: 9.633 min Scan# 1283

Delta R.T. -0.012 min

Lab File: BF135867.D

Acq: 19 Oct 2023 01:29

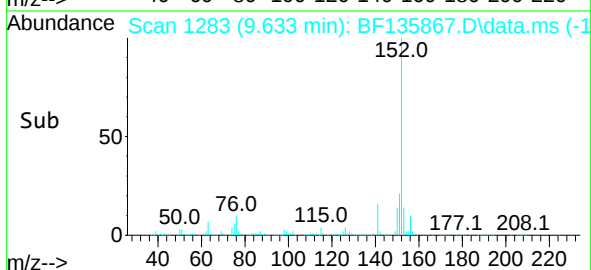
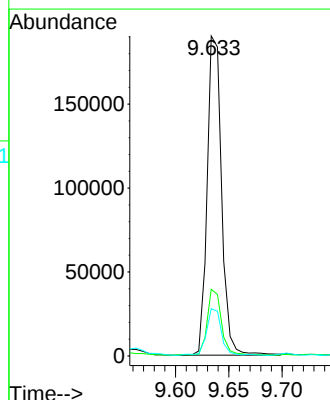
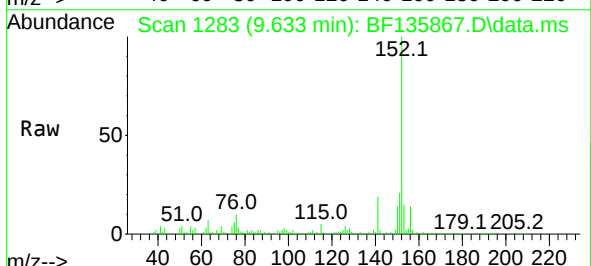
Tgt Ion:152 Resp: 179883

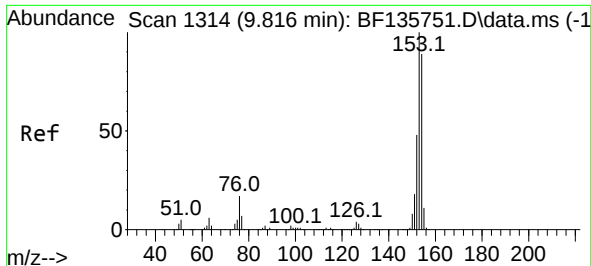
Ion Ratio Lower Upper

152 100

151 20.9 16.2 24.2

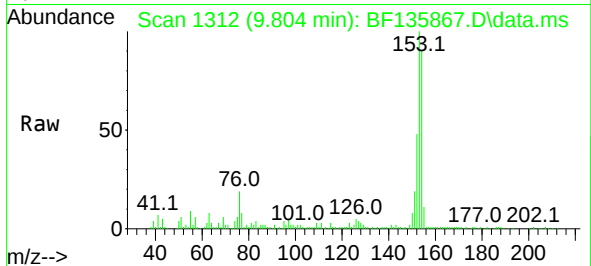
153 14.7 10.2 15.4





#52
Acenaphthene
Concen: 7.115 ng
RT: 9.804 min Scan# 11
Delta R.T. -0.012 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29

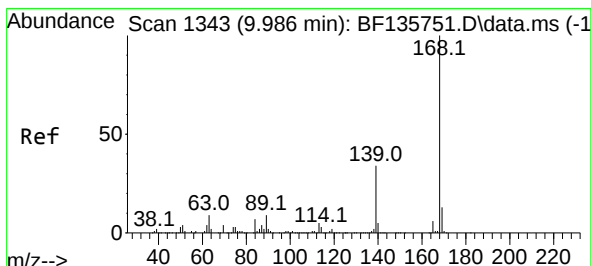
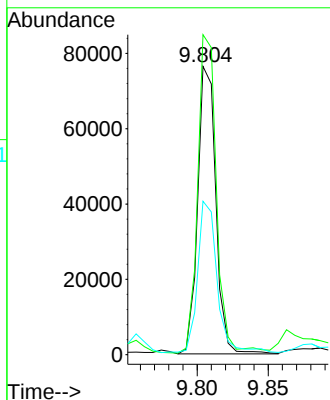
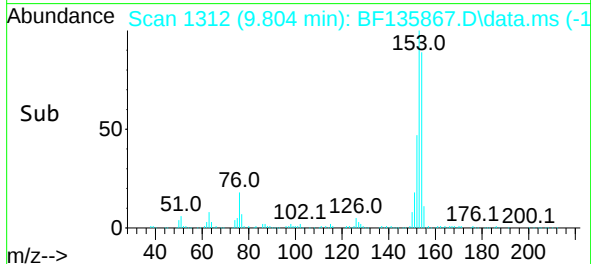
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)



Tgt Ion:154 Resp: 67878
Ion Ratio Lower Upper
154 100
153 111.0 90.1 135.1
152 53.2 43.1 64.7

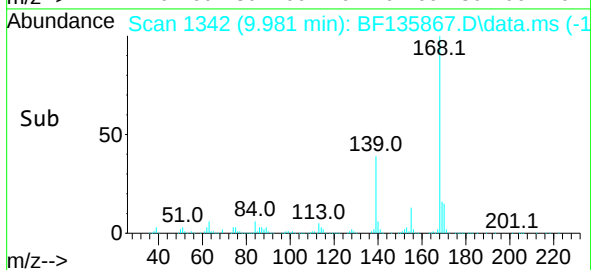
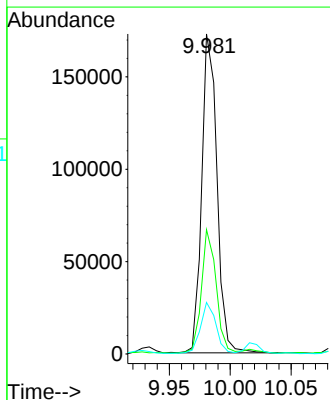
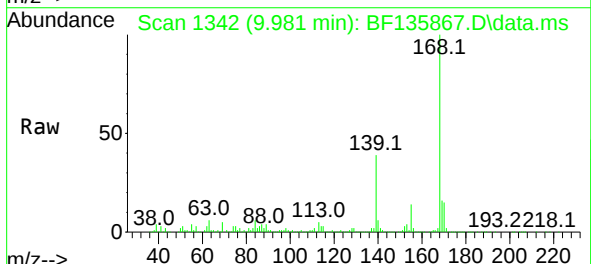
Manual Integrations
APPROVED

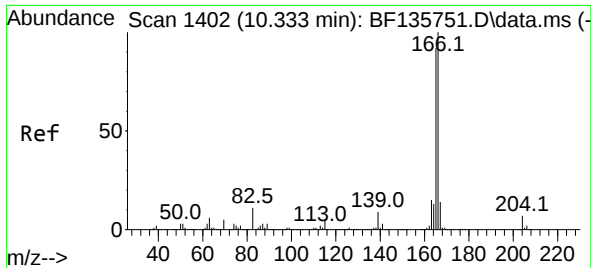
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023



#55
Dibenzofuran
Concen: 10.399 ng
RT: 9.981 min Scan# 1342
Delta R.T. -0.012 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29

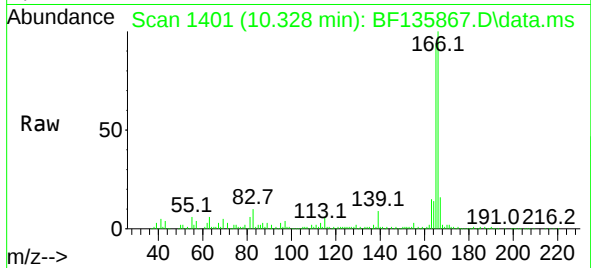
Tgt Ion:168 Resp: 149701
Ion Ratio Lower Upper
168 100
139 38.9 31.0 46.4
169 16.1 10.7 16.1#





#58
Fluorene
Concen: 6.481 ng
RT: 10.328 min Scan# 1402
Delta R.T. -0.012 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29

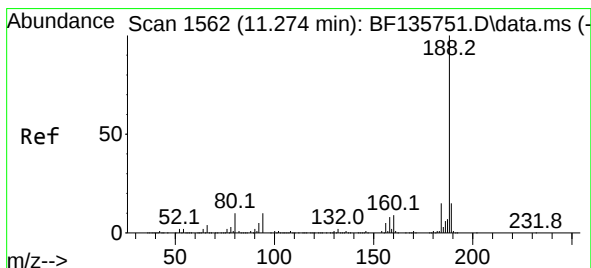
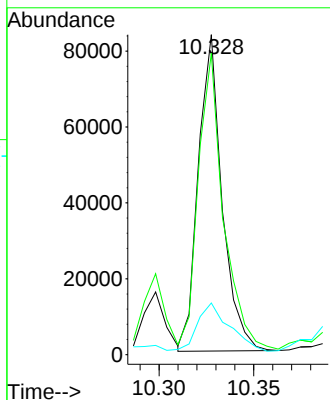
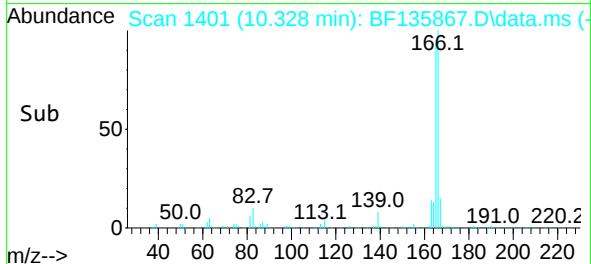
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)



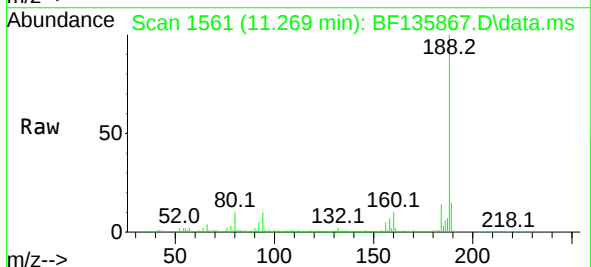
Tgt Ion:166 Resp: 73038
Ion Ratio Lower Upper
166 100
165 94.2 73.4 110.0
167 16.1 11.0 16.6

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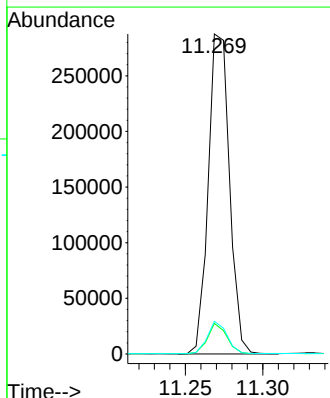
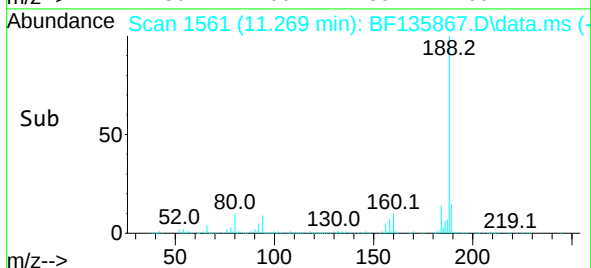
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023

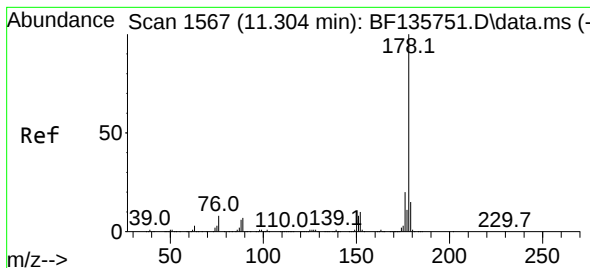


#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.269 min Scan# 1561
Delta R.T. -0.012 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29



Tgt Ion:188 Resp: 274505
Ion Ratio Lower Upper
188 100
94 9.6 8.0 12.0
80 10.2 8.3 12.5





#71

Phenanthrene

Concen: 78.382 ng

RT: 11.298 min Scan# 1566

Delta R.T. -0.006 min

Lab File: BF135867.D

Acq: 19 Oct 2023 01:29

Instrument :

BNA_F

ClientSampleId :

E-1(0-5)

Tgt Ion:178 Resp: 1030730

Ion Ratio Lower Upper

178 100

176 19.8 16.0 24.0

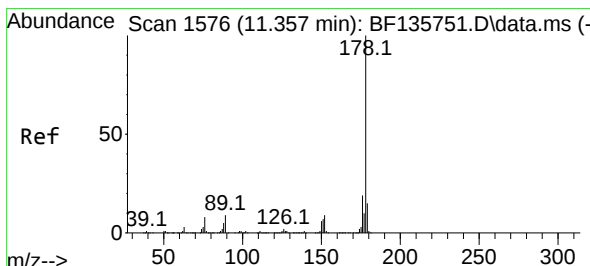
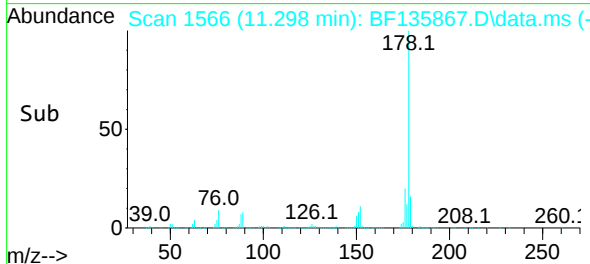
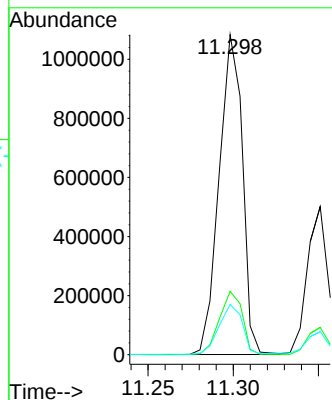
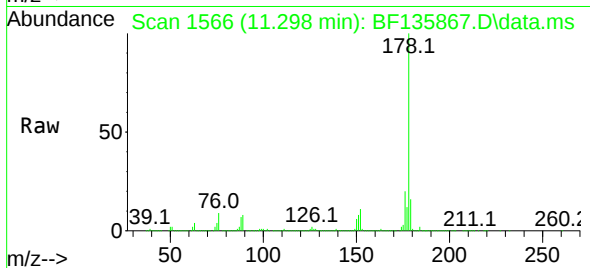
179 15.7 12.2 18.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/19/2023

Supervised By :mohammad ahmed 10/20/2023



#72

Anthracene

Concen: 30.791 ng

RT: 11.351 min Scan# 1575

Delta R.T. -0.006 min

Lab File: BF135867.D

Acq: 19 Oct 2023 01:29

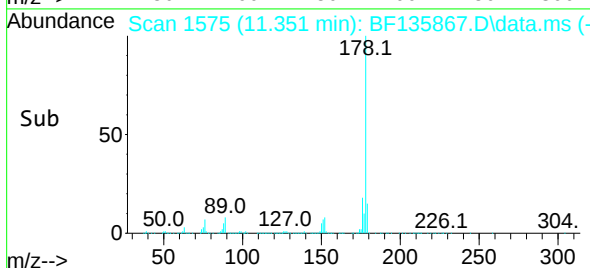
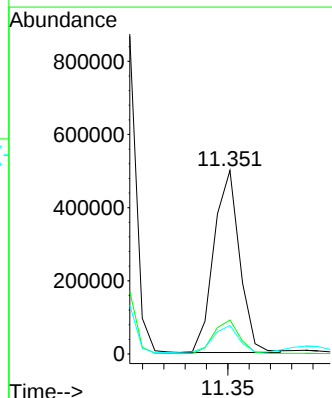
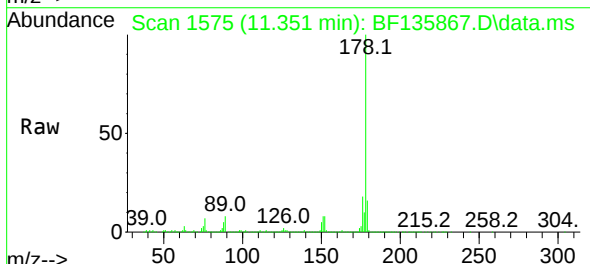
Tgt Ion:178 Resp: 419577

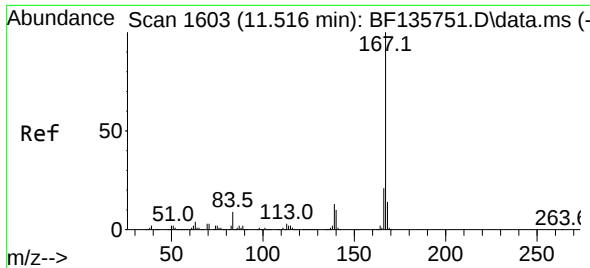
Ion Ratio Lower Upper

178 100

176 18.5 15.1 22.7

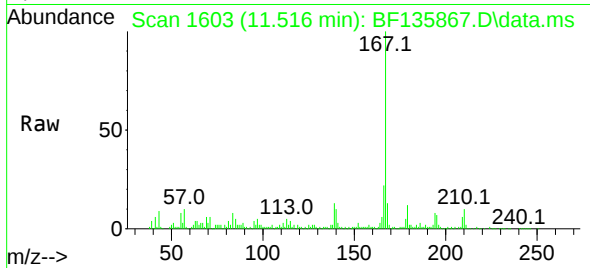
179 15.6 12.3 18.5





#73
 Carbazole
 Concen: 4.626 ng
 RT: 11.516 min Scan# 1603
 Delta R.T. -0.006 min
 Lab File: BF135867.D
 Acq: 19 Oct 2023 01:29

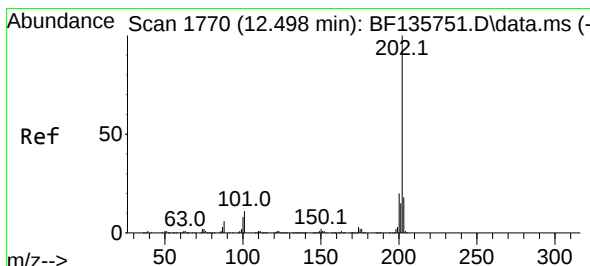
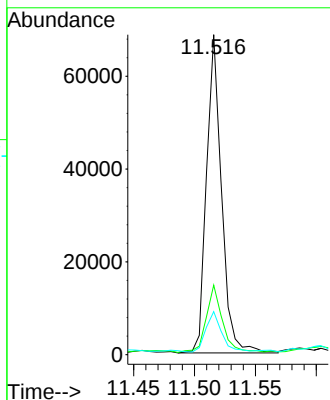
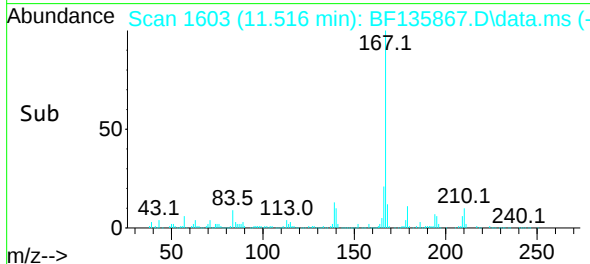
Instrument :
 BNA_F
 ClientSampleId :
 E-1(0-5)



Tgt Ion:167 Resp: 58780
 Ion Ratio Lower Upper
 167 100
 166 21.8 17.1 25.7
 139 13.5 10.2 15.4

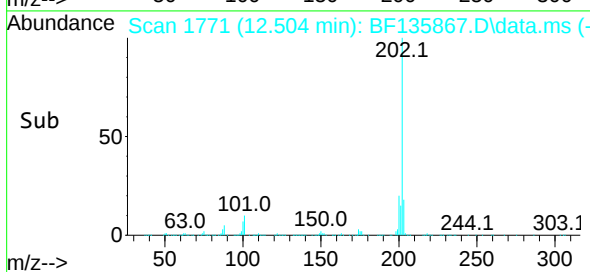
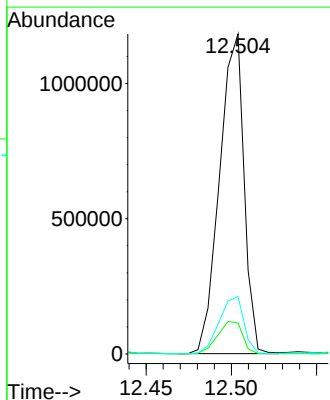
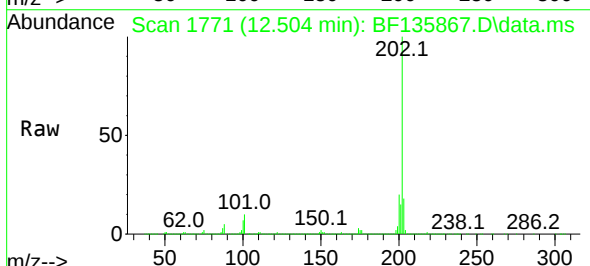
Manual Integrations
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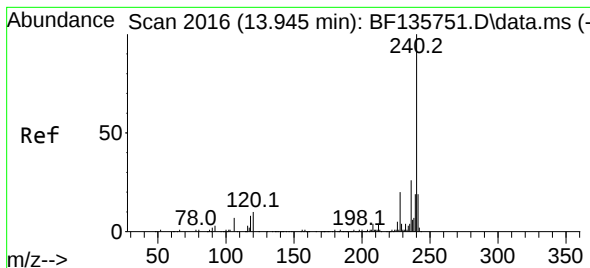
Reviewed By :Yogesh Patel 10/19/2023
 Supervised By :mohammad ahmed 10/20/2023



#75
 Fluoranthene
 Concen: 80.808 ng
 RT: 12.504 min Scan# 1771
 Delta R.T. -0.000 min
 Lab File: BF135867.D
 Acq: 19 Oct 2023 01:29

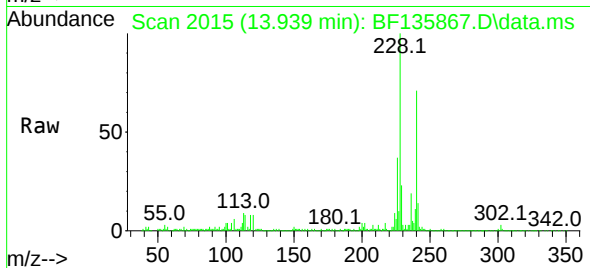
Tgt Ion:202 Resp: 1179383
 Ion Ratio Lower Upper
 202 100
 101 9.7 0.0 31.5
 203 18.0 0.0 38.3





#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2016
Delta R.T. -0.012 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29

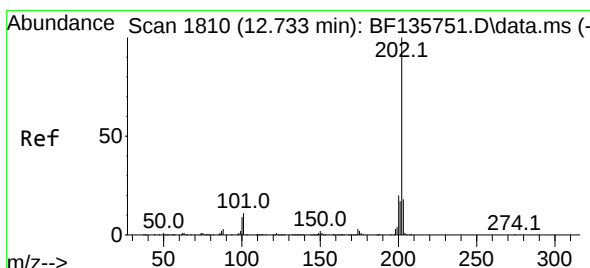
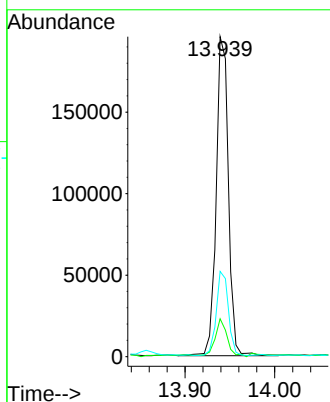
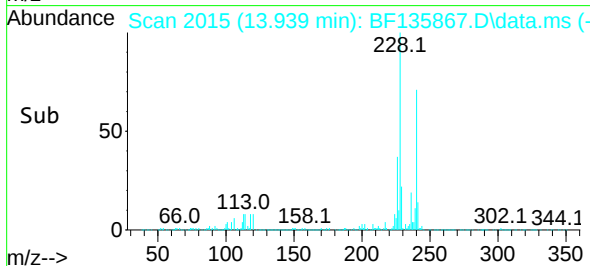
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)



Tgt Ion:240 Resp: 184799
Ion Ratio Lower Upper
240 100
120 11.9 8.2 12.2
236 26.7 21.2 31.8

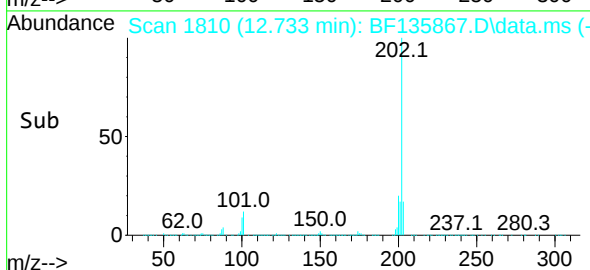
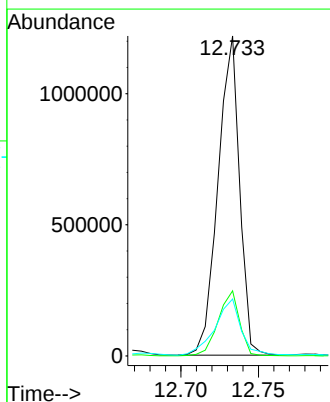
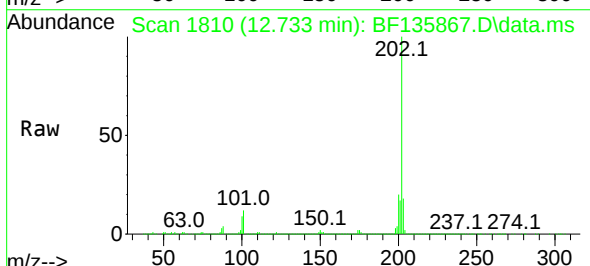
Manual Integrations
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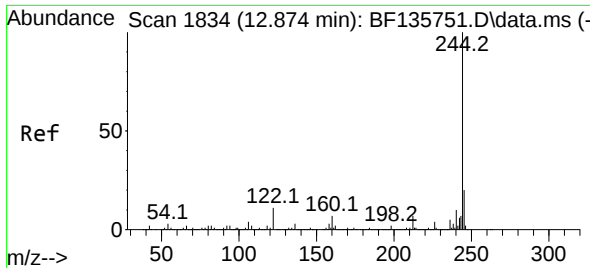
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023



#78
Pyrene
Concen: 80.141 ng
RT: 12.733 min Scan# 1810
Delta R.T. -0.000 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29

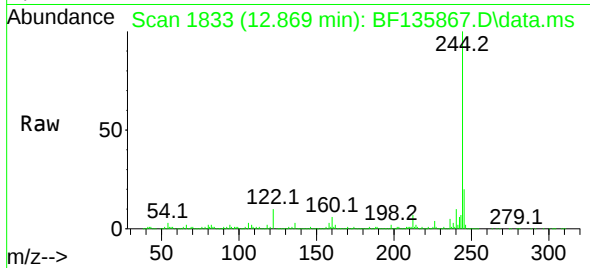
Tgt Ion:202 Resp: 1176873
Ion Ratio Lower Upper
202 100
200 20.3 16.1 24.1
203 17.8 14.2 21.2





#79
 Terphenyl-d14
 Concen: 51.969 ng
 RT: 12.869 min Scan# 1833
 Delta R.T. -0.012 min
 Lab File: BF135867.D
 Acq: 19 Oct 2023 01:29

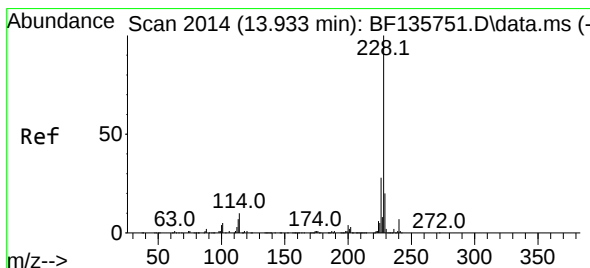
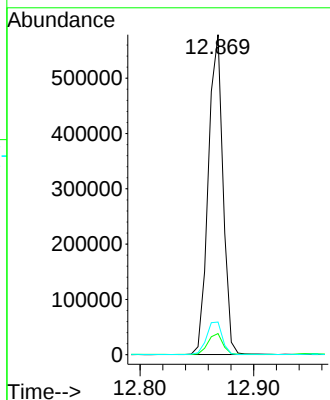
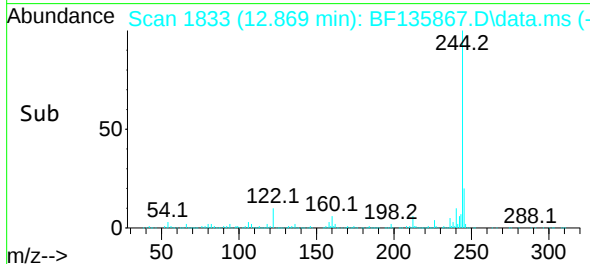
Instrument :
 BNA_F
 ClientSampleId :
 E-1(0-5)



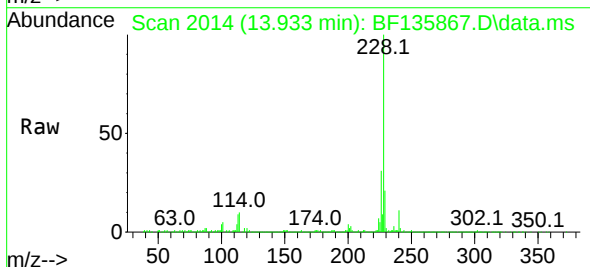
Tgt Ion:244 Resp: 51859
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.6 8.4
 122 10.2 9.0 13.6

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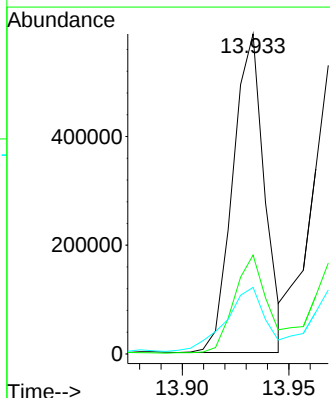
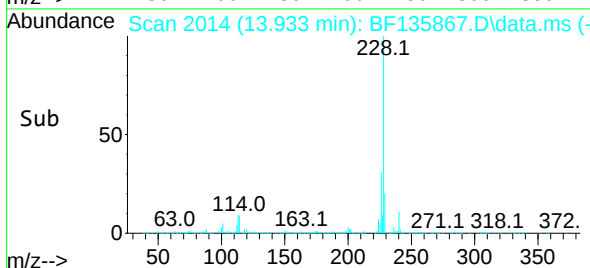
Reviewed By :Yogesh Patel 10/19/2023
 Supervised By :mohammad ahmed 10/20/2023

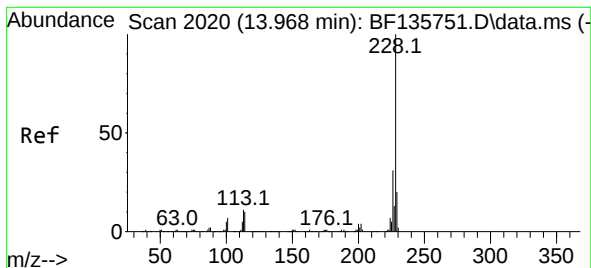


#81
 Benzo(a)anthracene
 Concen: 49.869 ng
 RT: 13.933 min Scan# 2014
 Delta R.T. -0.006 min
 Lab File: BF135867.D
 Acq: 19 Oct 2023 01:29



Tgt Ion:228 Resp: 605322
 Ion Ratio Lower Upper
 228 100
 226 30.9 22.2 33.2
 229 20.8 16.1 24.1





#83

Chrysene

Concen: 44.128 ng m

RT: 13.969 min Scan# 20

Delta R.T. -0.006 min

Lab File: BF135867.D

Acq: 19 Oct 2023 01:29

Instrument :

BNA_F

ClientSampleId :

E-1(0-5)

Tgt Ion:228 Resp: 51880

Ion Ratio Lower Upper

228 100

226 31.5 24.4 36.6

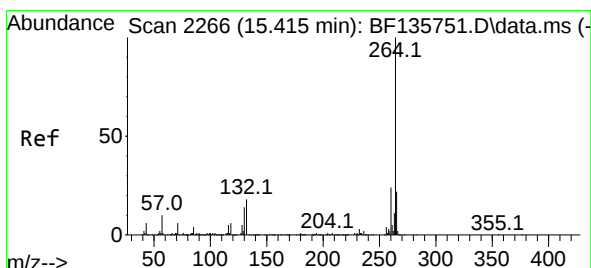
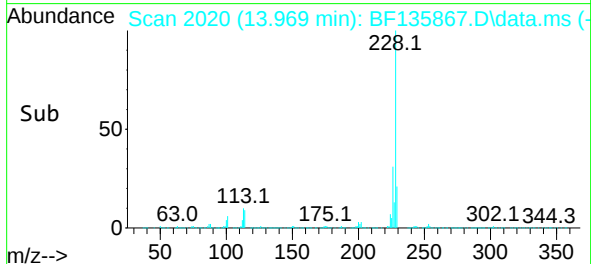
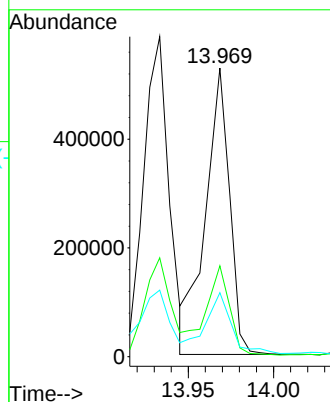
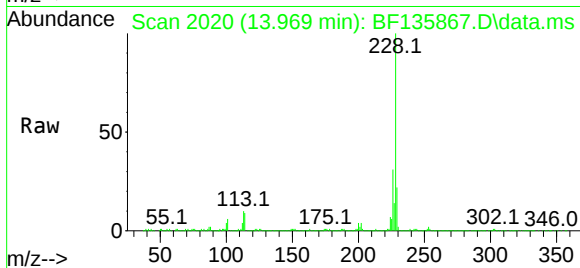
229 22.2 15.7 23.5

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: 15.421 min Scan# 2267

Delta R.T. -0.000 min

Lab File: BF135867.D

Acq: 19 Oct 2023 01:29

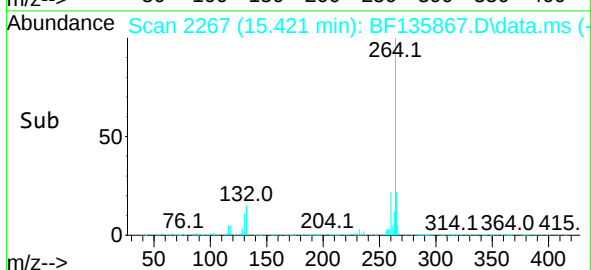
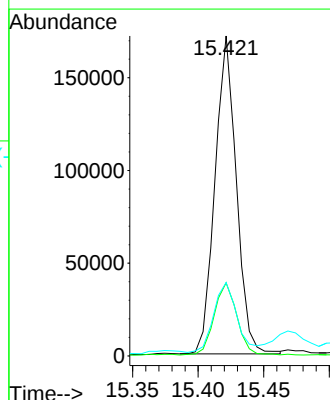
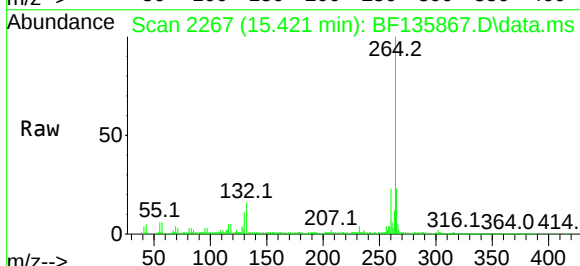
Tgt Ion:264 Resp: 194135

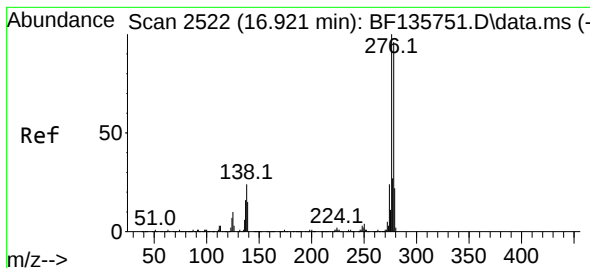
Ion Ratio Lower Upper

264 100

260 22.9 19.2 28.8

265 22.9 17.4 26.2





#87

Indeno(1,2,3-cd)pyrene

Concen: 15.259 ng

RT: 16.927 min Scan# 2194

Delta R.T. -0.006 min

Lab File: BF135867.D

Acq: 19 Oct 2023 01:29

Instrument :

BNA_F

ClientSampleId :

E-1(0-5)

Tgt Ion:276 Resp: 161408

Ion Ratio Lower Upper

276 100

138 18.8 19.8 29.6

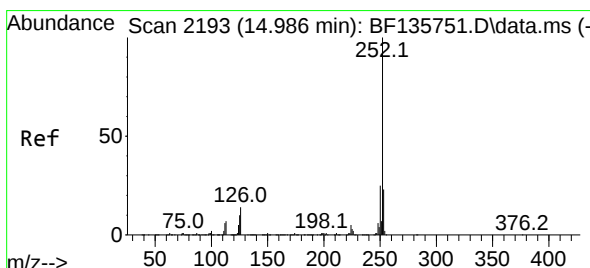
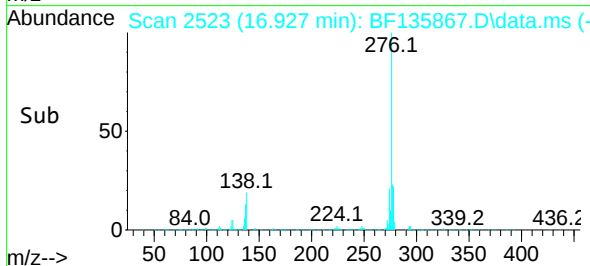
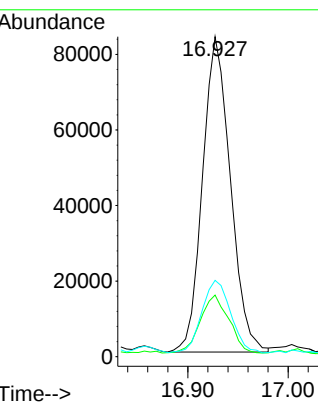
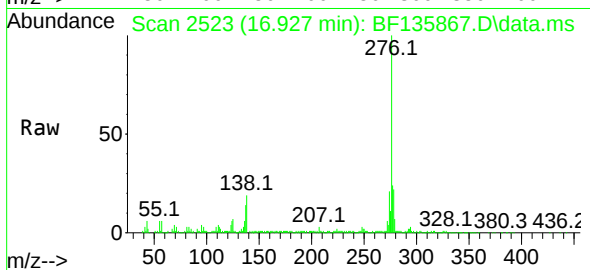
277 23.9 20.2 30.4

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/19/2023

Supervised By :mohammad ahmed 10/20/2023



#88

Benzo(b)fluoranthene

Concen: 52.180 ng m

RT: 14.992 min Scan# 2194

Delta R.T. -0.000 min

Lab File: BF135867.D

Acq: 19 Oct 2023 01:29

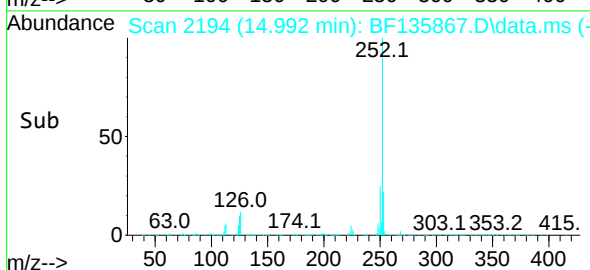
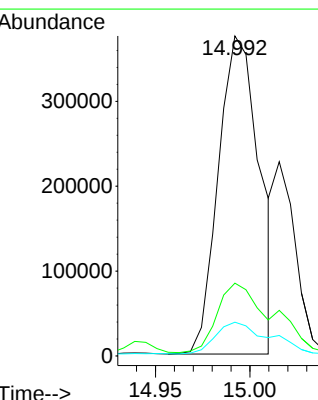
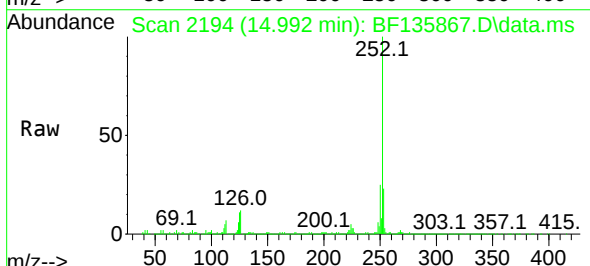
Tgt Ion:252 Resp: 566939

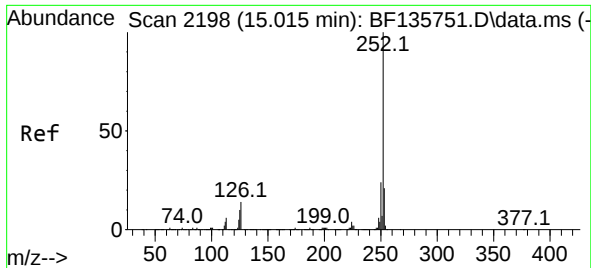
Ion Ratio Lower Upper

252 100

253 22.7 18.2 27.2

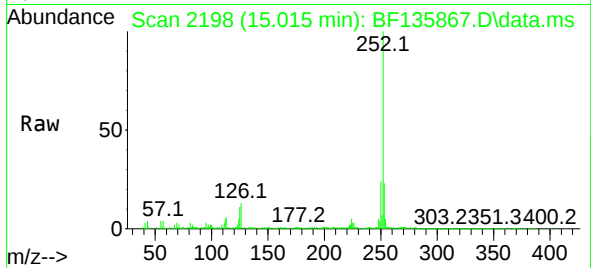
125 10.5 8.2 12.2





#89
Benzo(k)fluoranthene
Concen: 16.650 ng m
RT: 15.015 min Scan# 2198
Delta R.T. -0.006 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29

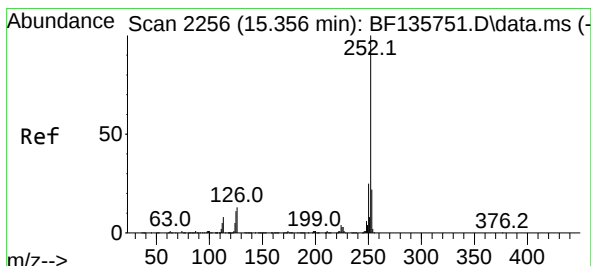
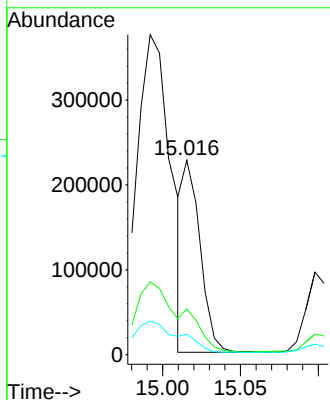
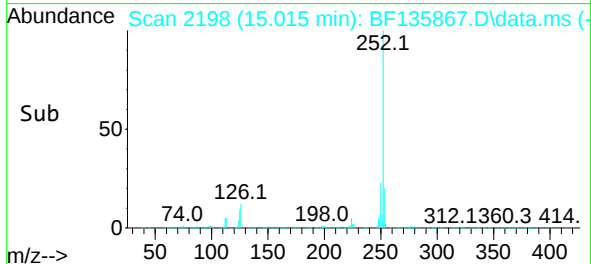
Instrument :
BNA_F
ClientSampleId :
E-1(0-5)



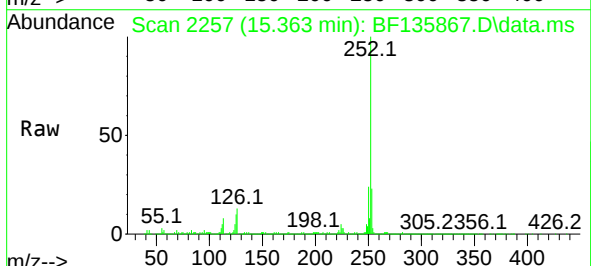
Tgt Ion:252 Resp: 175634
Ion Ratio Lower Upper
252 100
253 23.5 17.4 26.0
125 10.5 8.3 12.5

Manual Integrations
APPROVED

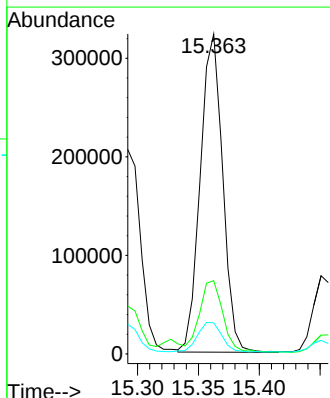
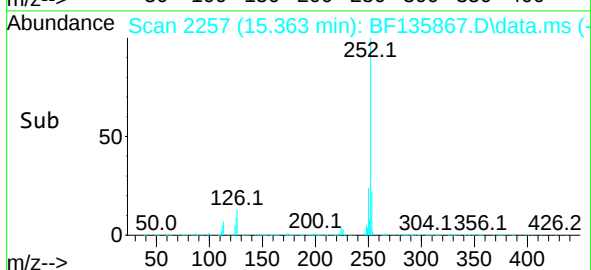
Reviewed By :Yogesh Patel 10/19/2023
Supervised By :mohammad ahmed 10/20/2023

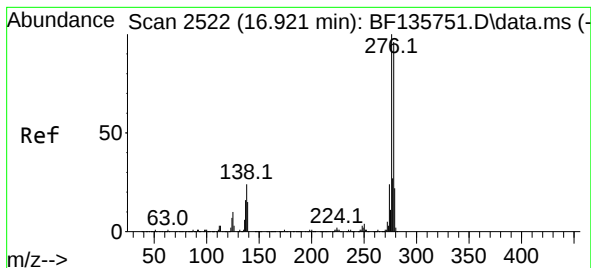


#90
Benzo(a)pyrene
Concen: 40.558 ng
RT: 15.363 min Scan# 2257
Delta R.T. -0.000 min
Lab File: BF135867.D
Acq: 19 Oct 2023 01:29



Tgt Ion:252 Resp: 414370
Ion Ratio Lower Upper
252 100
253 22.9 17.4 26.2
125 9.8 8.8 13.2





#91

Dibenzo(a,h)anthracene

Concen: 5.321 ng m

RT: 16.927 min Scan# 2

Delta R.T. -0.012 min

Lab File: BF135867.D

Acq: 19 Oct 2023 01:29

Instrument :

BNA_F

ClientSampleId :

E-1(0-5)

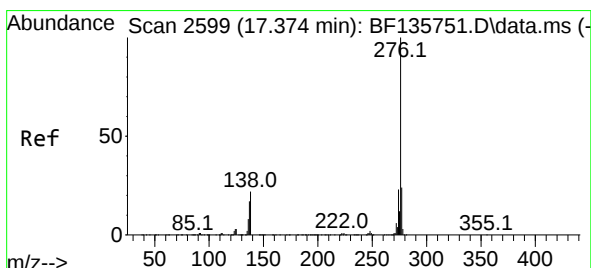
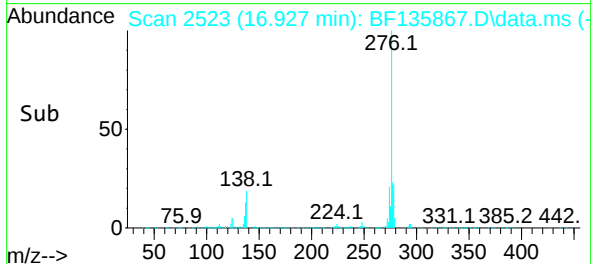
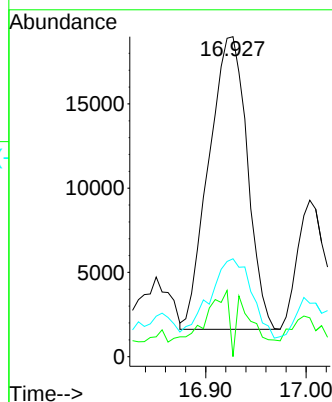
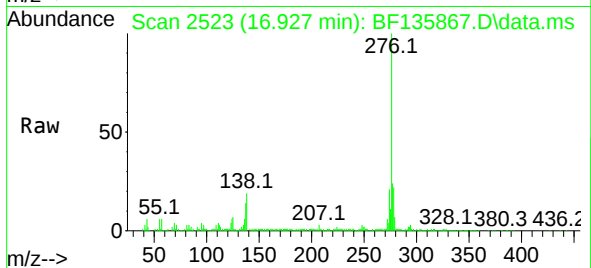
Tgt Ion:278 Resp: 46138
 Ion Ratio Lower Upper
 278 100
 139 0.0 12.5 18.7
 279 30.6 18.6 27.8

Manual Integrations

APPROVED

Reviewed By :Yogesh Patel 10/19/2023

Supervised By :mohammad ahmed 10/20/2023



#92

Benzo(g,h,i)perylene

Concen: 15.995 ng

RT: 17.386 min Scan# 2601

Delta R.T. -0.000 min

Lab File: BF135867.D

Acq: 19 Oct 2023 01:29

Tgt Ion:276 Resp: 142473
 Ion Ratio Lower Upper
 276 100
 277 24.6 19.4 29.2
 138 19.5 17.3 25.9

