

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101223\
 Data File : BF135743.D
 Acq On : 12 Oct 2023 19:35
 Operator : CG\JU
 Sample : 04657-05
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 V-2(0-2IN)

Manual Integrations
 APPROVED

Reviewed By :Yogesh Patel 10/13/2023
 Supervised By :mohammad ahmed 10/13/2023

Quant Time: Oct 13 00:58:02 2023
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF091123.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Oct 11 02:43:17 2023
 Response via : Initial Calibration

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

Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.740	152	69084	20.000	ng	0.00
21) Naphthalene-d8	8.016	136	237513	20.000	ng	0.00
39) Acenaphthene-d10	9.775	164	112956	20.000	ng	0.00
64) Phenanthrene-d10	11.275	188	153373	20.000	ng	0.00
76) Chrysene-d12	13.939	240	108940	20.000	ng	0.00
86) Perylene-d12	15.415	264	94490	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.381	112	380694	89.627	ng	0.01
7) Phenol-d6	6.393	99	465796	86.243	ng	0.00
23) Nitrobenzene-d5	7.304	82	264662	60.540	ng	0.00
42) 2,4,6-Tribromophenol	10.575	330	69674	62.070	ng	0.00
45) 2-Fluorobiphenyl	9.092	172	419537	56.036	ng	0.00
79) Terphenyl-d14	12.869	244	276461	39.340	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.040	128	54337	4.709	ng	98
37) 2-Methylnaphthalene	8.734	142	18059	2.328	ng	95
49) Acenaphthylene	9.639	152	69287	6.619	ng	99
52) Acenaphthene	9.804	154	73372	11.866	ng	99
55) Dibenzofuran	9.981	168	48894	5.182	ng	95
58) Fluorene	10.328	166	71057	9.796	ng	98
71) Phenanthrene	11.304	178	938451	129.372	ng	99
72) Anthracene	11.351	178	219836	29.484	ng	99
73) Carbazole	11.510	167	149238	21.987	ng	99
75) Fluoranthene	12.510	202	1627198	215.281	ng	98
78) Pyrene	12.739	202	1486919	143.360	ng	99
81) Benzo(a)anthracene	13.933	228	797149	113.319	ng	96
83) Chrysene	13.969	228	639402	91.422	ng	98
84) Bis(2-ethylhexyl)phtha...	13.910	149	123101	32.850	ng	98
87) Indeno(1,2,3-cd)pyrene	16.915	276	354938	57.291	ng	95
88) Benzo(b)fluoranthene	14.992	252	868175m	169.728	ng	
89) Benzo(k)fluoranthene	15.016	252	240877m	47.672	ng	
90) Benzo(a)pyrene	15.363	252	559009	114.600	ng	99
91) Dibenzo(a,h)anthracene	16.915	278	83427m	16.458	ng	
92) Benzo(g,h,i)perylene	17.368	276	342505	64.696	ng	98

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

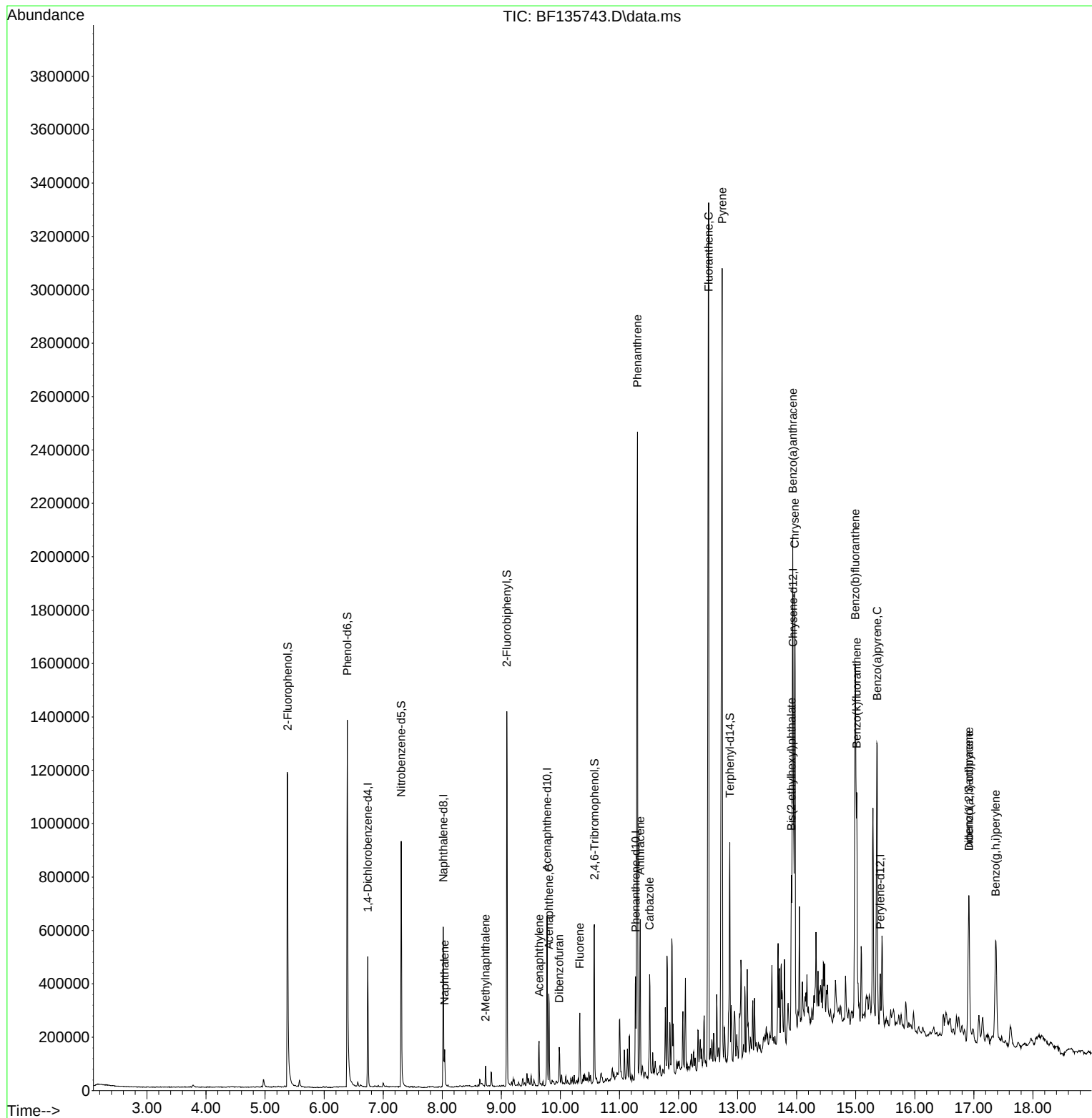
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101223\
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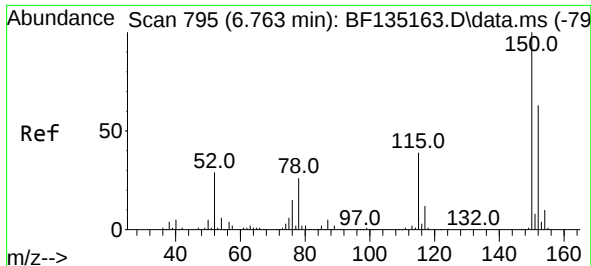
Instrument :
BNA_F
ClientSampleId :
V-2(0-2IN)

Quant Time: Oct 13 00:58:02 2023
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
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APPROVED

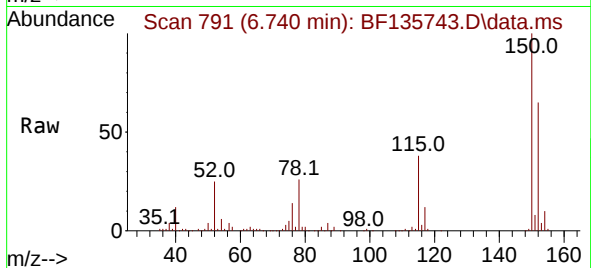
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.740 min Scan# 795
Delta R.T. 0.001 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

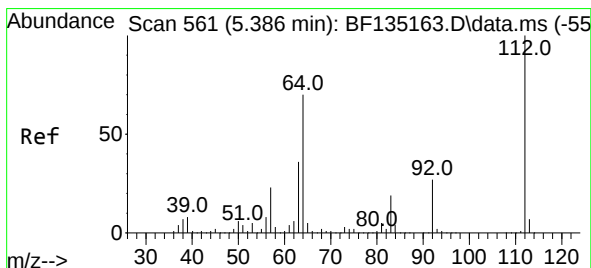
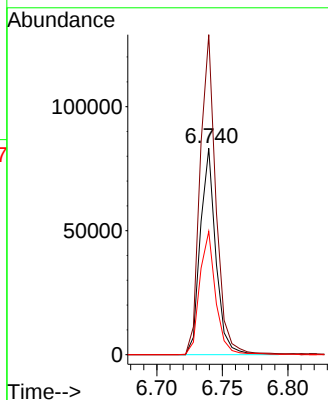
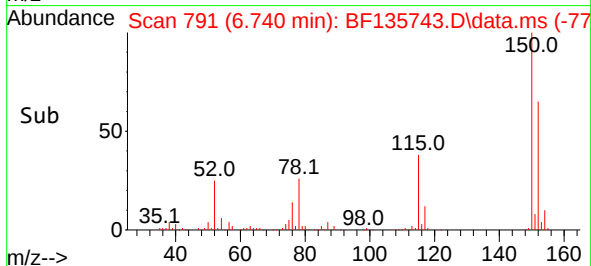
Instrument :
BNA_F
ClientSampleId :
V-2(0-2IN)



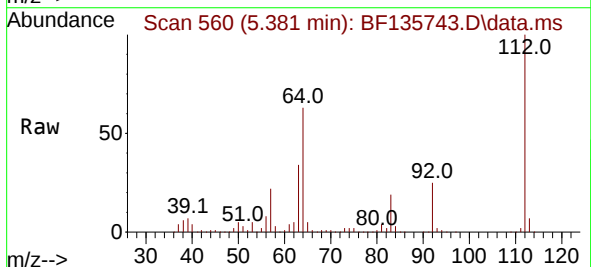
Tgt Ion:152 Resp: 69084
Ion Ratio Lower Upper
152 100
150 155.0 127.8 191.6
115 59.7 49.8 74.8

Manual Integrations
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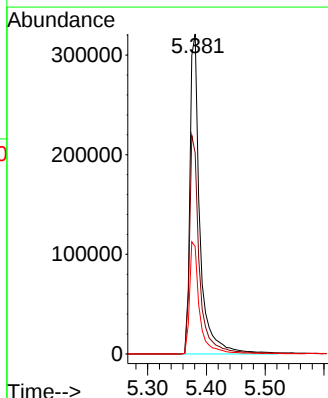
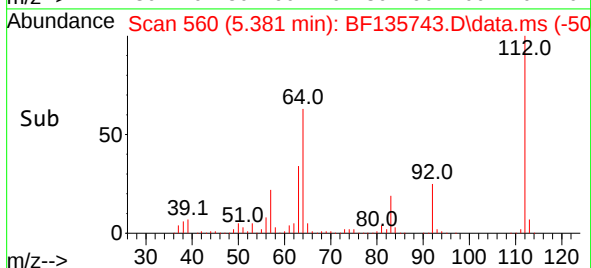
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#5
2-Fluorophenol
Concen: 89.627 ng
RT: 5.381 min Scan# 560
Delta R.T. 0.012 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35



Tgt Ion:112 Resp: 380694
Ion Ratio Lower Upper
112 100
64 62.8 55.9 83.9
63 33.5 29.0 43.6





#7

Phenol-d6

Concen: 86.243 ng

RT: 6.393 min Scan# 71

Delta R.T. 0.000 min

Lab File: BF135743.D

Acq: 12 Oct 2023 19:35

Instrument :

BNA_F

ClientSampleId :

V-2(0-2IN)

Tgt Ion: 99 Resp: 465790

Ion Ratio Lower Upper

99 100

42 22.7 17.9 26.9

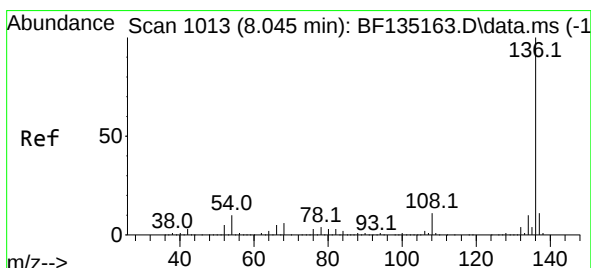
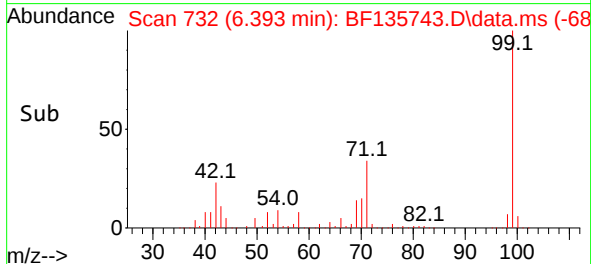
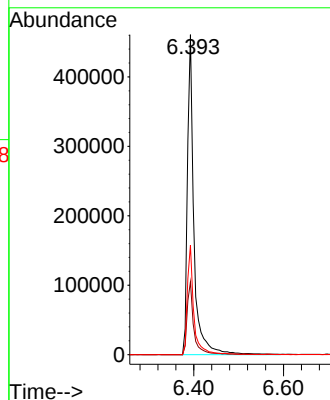
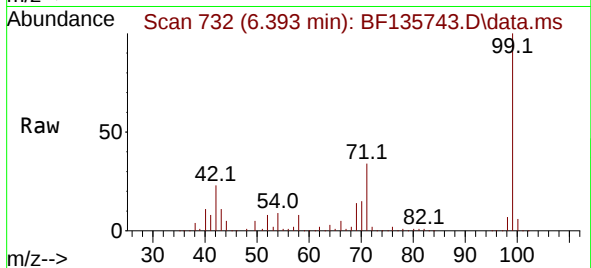
71 34.3 27.0 40.6

Manual Integrations

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Supervised By :mohammad ahmed 10/13/2023



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.016 min Scan# 1008

Delta R.T. -0.006 min

Lab File: BF135743.D

Acq: 12 Oct 2023 19:35

Tgt Ion:136 Resp: 237513

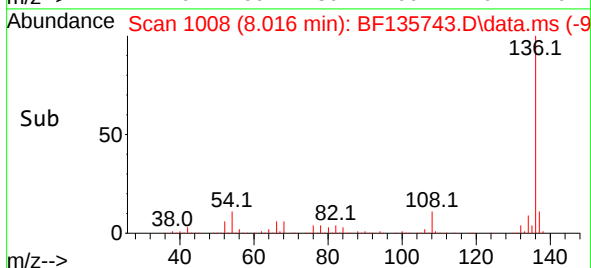
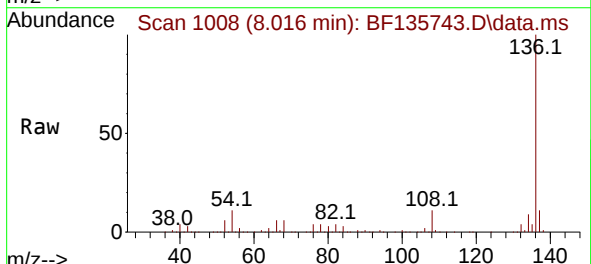
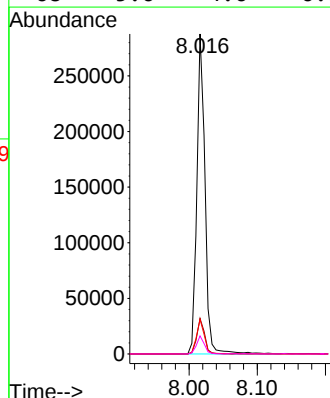
Ion Ratio Lower Upper

136 100

137 11.1 8.8 13.2

54 10.8 7.7 11.5

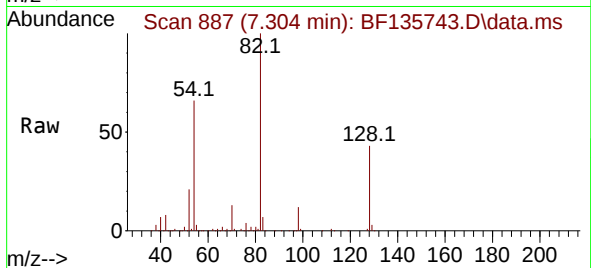
68 5.6 4.6 6.8





#23
Nitrobenzene-d5
Concen: 60.540 ng
RT: 7.304 min Scan# 887
Delta R.T. -0.006 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

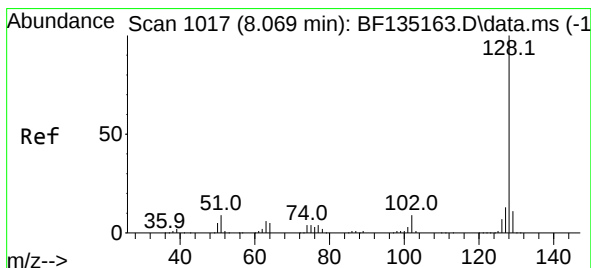
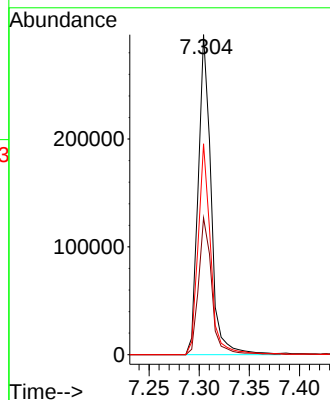
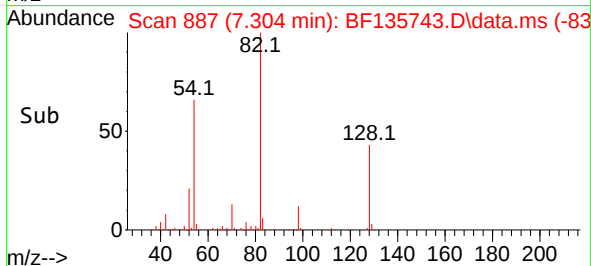
Instrument :
BNA_F
ClientSampleId :
V-2(0-2IN)



Tgt Ion: 82 Resp: 264662
Ion Ratio Lower Upper
82 100
128 42.8 35.8 53.6
54 65.9 50.6 76.0

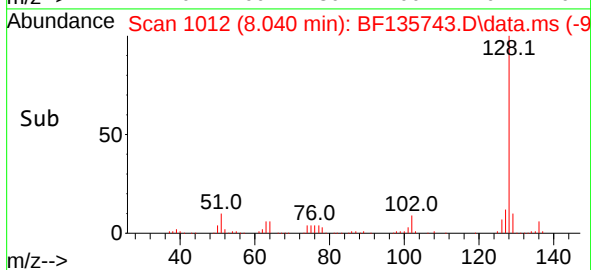
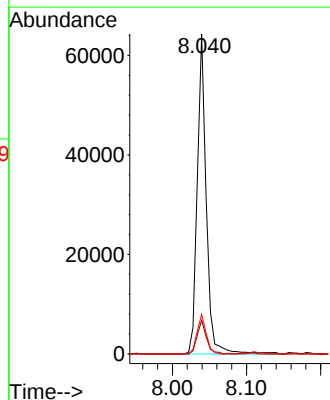
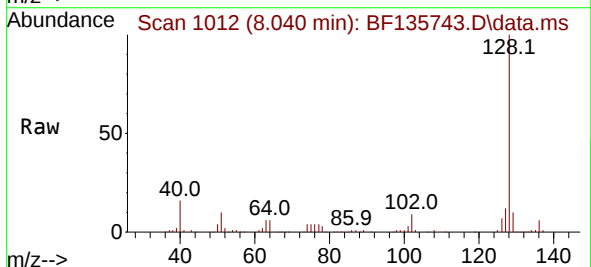
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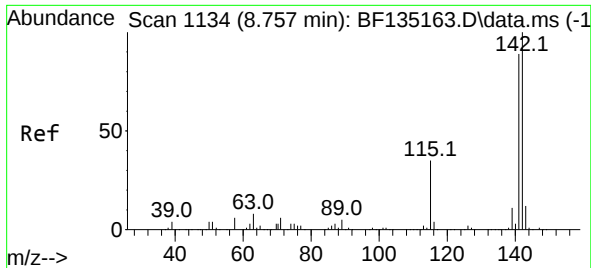
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#31
Naphthalene
Concen: 4.709 ng
RT: 8.040 min Scan# 1012
Delta R.T. 0.000 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Tgt Ion:128 Resp: 54337
Ion Ratio Lower Upper
128 100
129 10.5 8.7 13.1
127 12.3 10.7 16.1





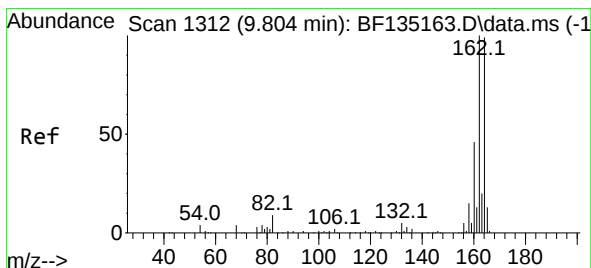
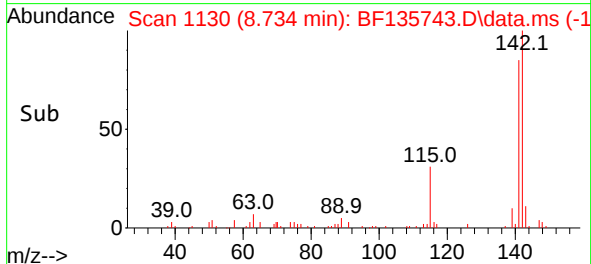
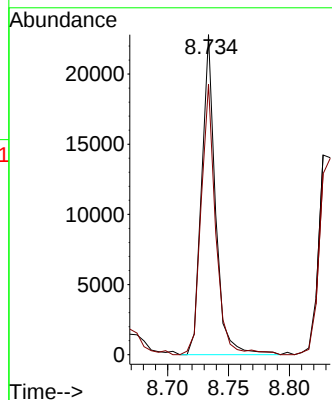
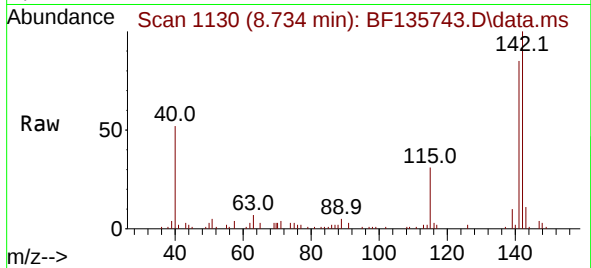
#37
2-Methylnaphthalene
Concen: 2.328 ng
RT: 8.734 min Scan# 1134
Delta R.T. 0.000 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Instrument :
BNA_F
ClientSampleId :
V-2(0-2IN)

Tgt Ion:142 Resp: 1805
Ion Ratio Lower Upper
142 100
141 84.5 71.0 106.6

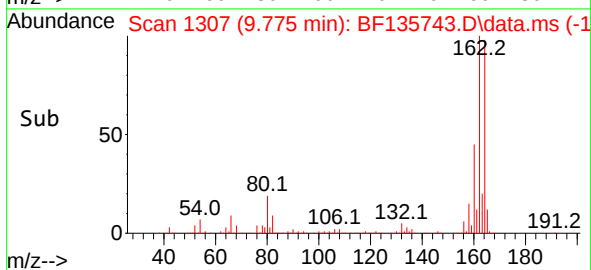
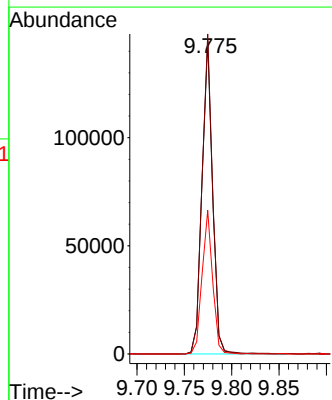
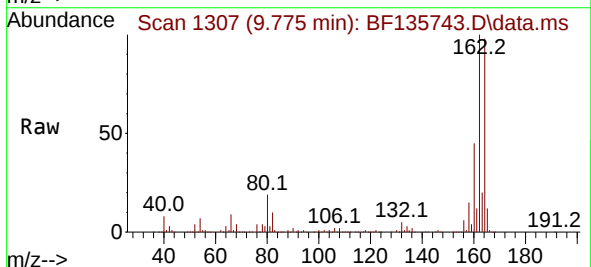
Manual Integrations
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Supervised By :mohammad ahmed 10/13/2023



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.775 min Scan# 1307
Delta R.T. -0.006 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Tgt Ion:164 Resp: 112956
Ion Ratio Lower Upper
164 100
162 102.1 81.0 121.4
160 45.8 37.0 55.4





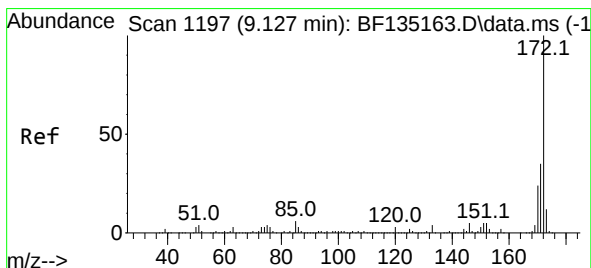
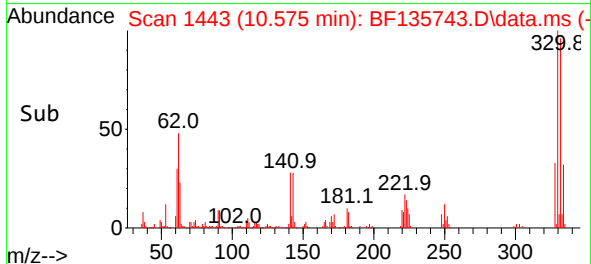
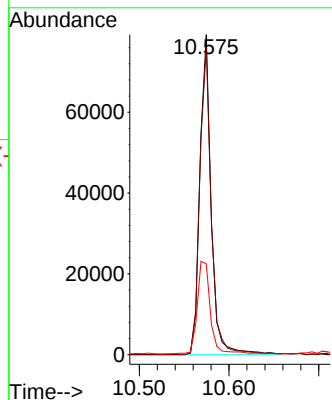
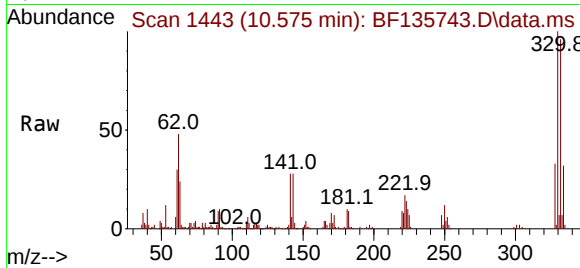
#42
2,4,6-Tribromophenol
Concen: 62.070 ng
RT: 10.575 min Scan# 1447
Delta R.T. 0.000 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Instrument :
BNA_F
ClientSampleId :
V-2(0-2IN)

Tgt Ion:330 Resp: 69674
Ion Ratio Lower Upper
330 100
332 97.6 77.3 115.9
141 33.6 25.8 38.8

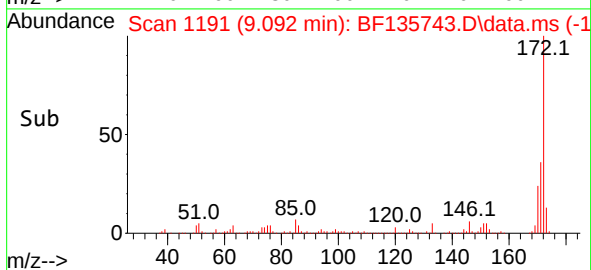
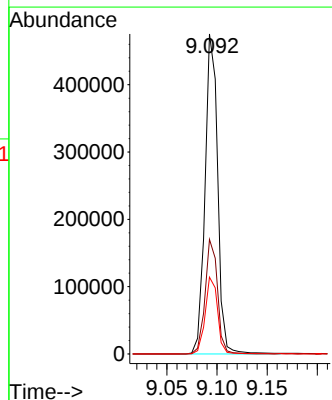
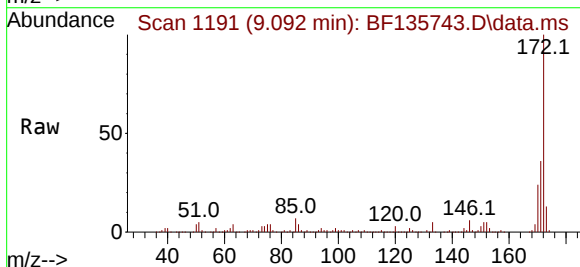
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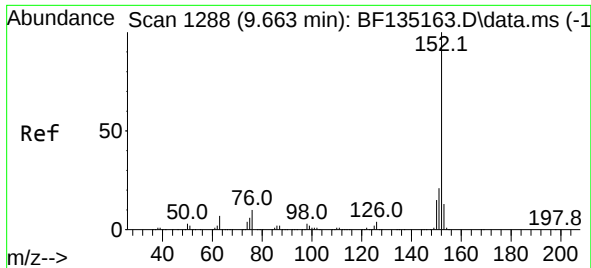
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#45
2-Fluorobiphenyl
Concen: 56.036 ng
RT: 9.092 min Scan# 1191
Delta R.T. -0.006 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Tgt Ion:172 Resp: 419537
Ion Ratio Lower Upper
172 100
171 35.8 28.4 42.6
170 24.0 19.0 28.4





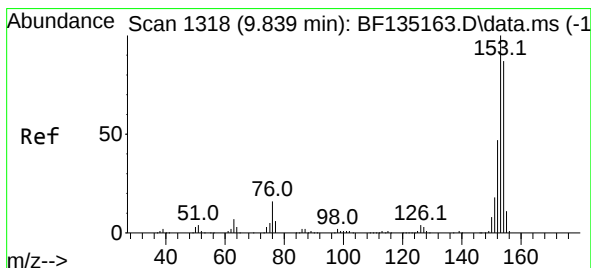
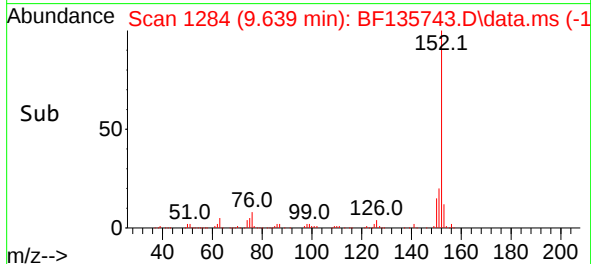
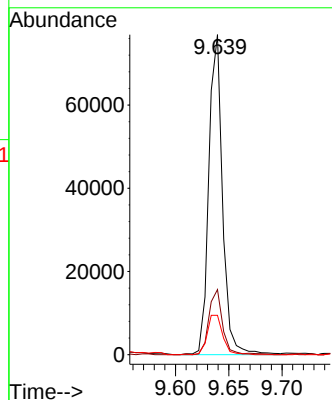
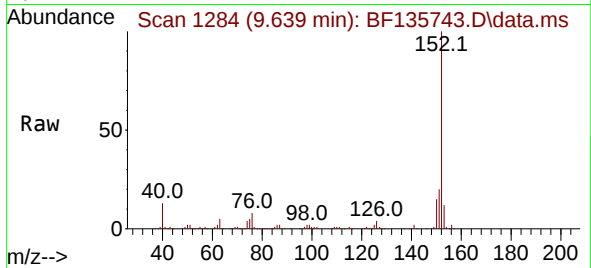
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Acenaphthylene
Concen: 6.619 ng
RT: 9.639 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Instrument :
BNA_F
ClientSampleId :
V-2(0-2IN)

Tgt Ion:152 Resp: 6928
Ion Ratio Lower Upper
152 100
151 20.3 16.4 24.6
153 12.3 10.4 15.6

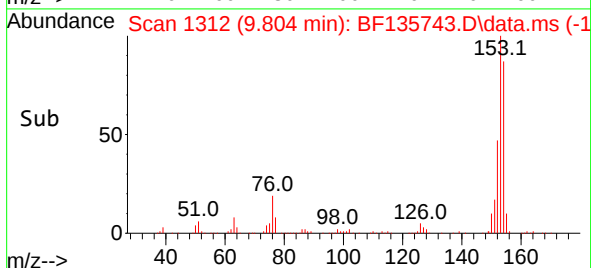
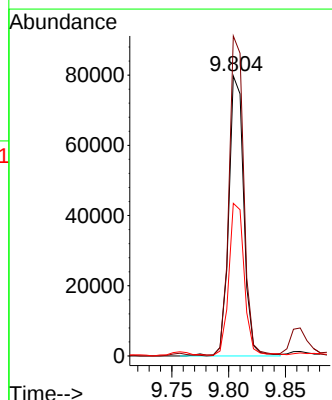
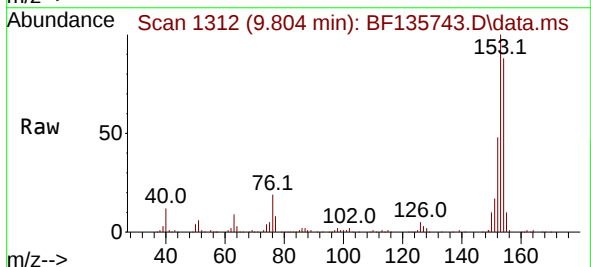
Manual Integrations
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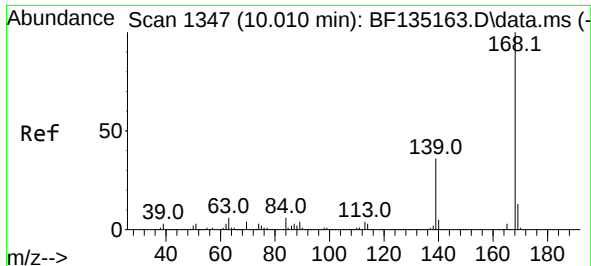
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#52
Acenaphthene
Concen: 11.866 ng
RT: 9.804 min Scan# 1312
Delta R.T. -0.012 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

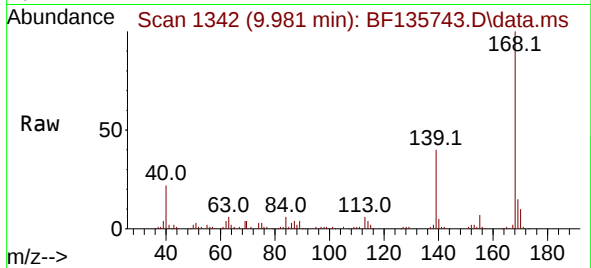
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Ion Ratio Lower Upper
154 100
153 114.3 92.1 138.1
152 54.5 43.1 64.7





#55
Dibenzenofuran
Concen: 5.182 ng
RT: 9.981 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

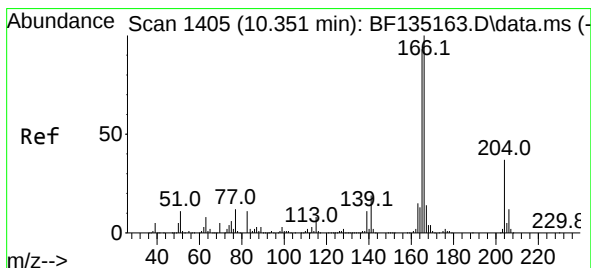
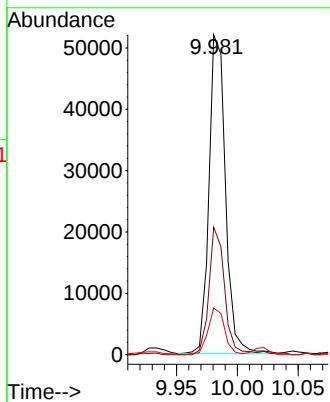
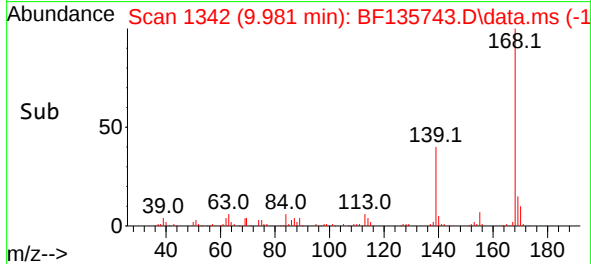
Instrument :
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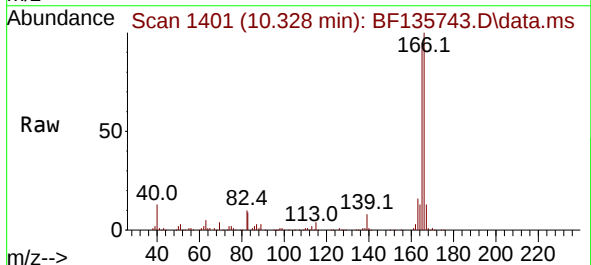
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Ion Ratio Lower Upper
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139 39.8 29.0 43.6
169 14.5 10.4 15.6

Manual Integrations
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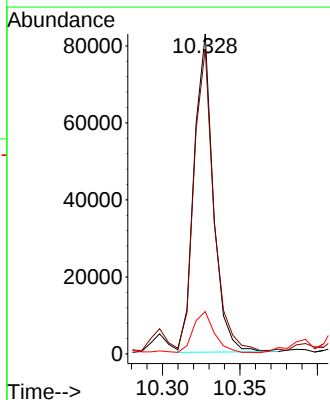
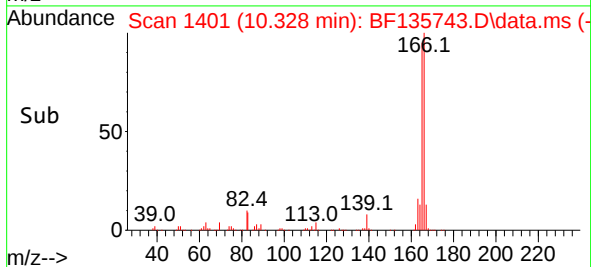
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023

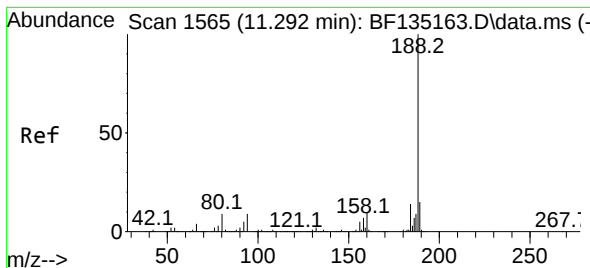


#58
Fluorene
Concen: 9.796 ng
RT: 10.328 min Scan# 1401
Delta R.T. -0.006 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35



Tgt Ion:166 Resp: 71057
Ion Ratio Lower Upper
166 100
165 95.3 74.3 111.5
167 13.3 10.9 16.3





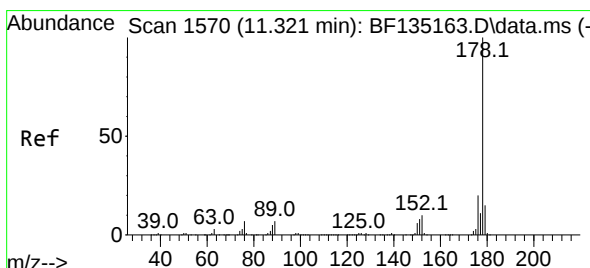
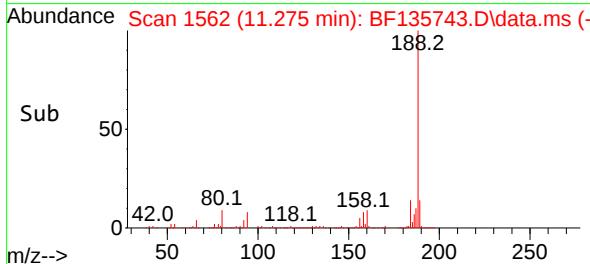
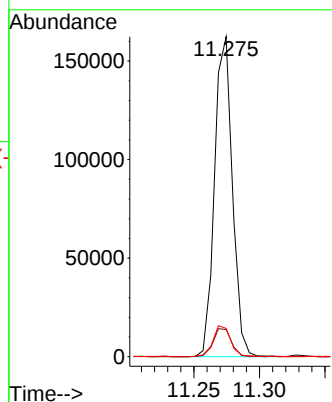
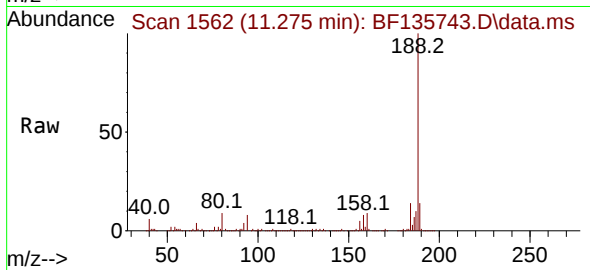
#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.275 min Scan# 1565
Delta R.T. 0.000 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Instrument :
BNA_F
ClientSampleId :
V-2(0-2IN)

Tgt Ion:188 Resp: 15337
Ion Ratio Lower Upper
188 100
94 8.5 7.0 10.6
80 8.9 7.5 11.3

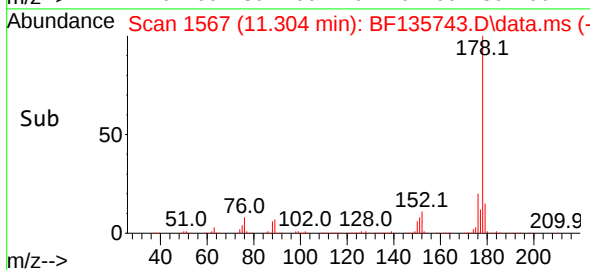
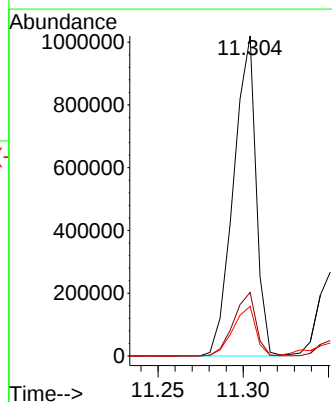
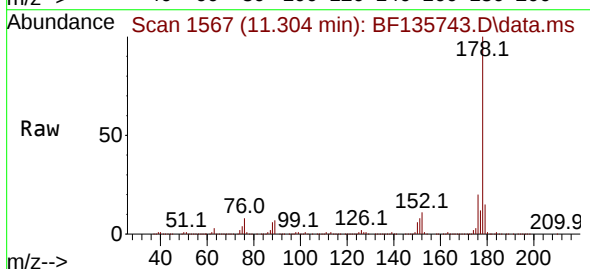
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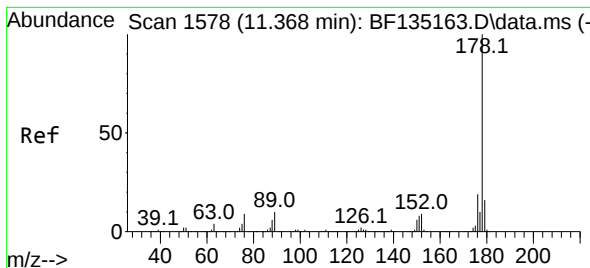
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#71
Phenanthrene
Concen: 129.372 ng
RT: 11.304 min Scan# 1567
Delta R.T. 0.006 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Tgt Ion:178 Resp: 938451
Ion Ratio Lower Upper
178 100
176 19.9 15.6 23.4
179 15.5 12.0 18.0





#72

Anthracene

Concen: 29.484 ng

RT: 11.351 min Scan# 11

Delta R.T. 0.000 min

Lab File: BF135743.D

Acq: 12 Oct 2023 19:35

Instrument :

BNA_F

ClientSampleId :

V-2(0-2IN)

Tgt Ion:178 Resp: 219830

Ion Ratio Lower Upper

178 100

176 18.5 15.4 23.2

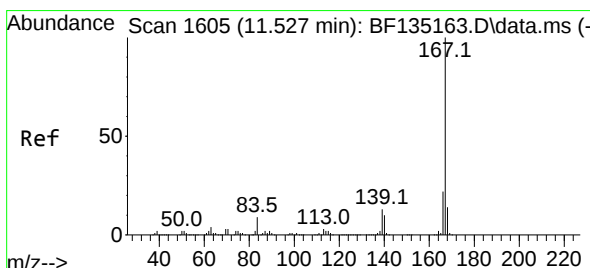
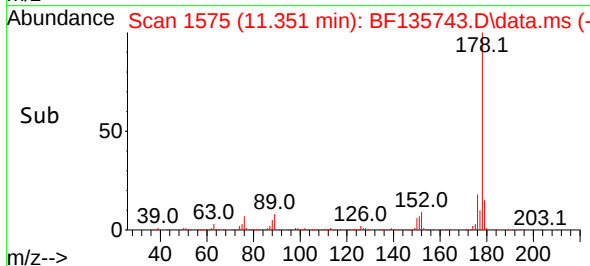
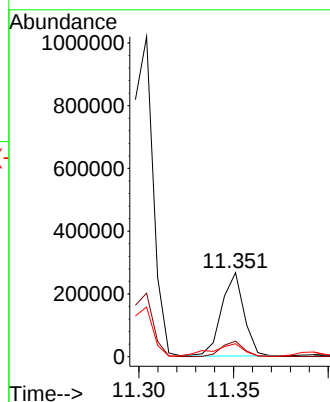
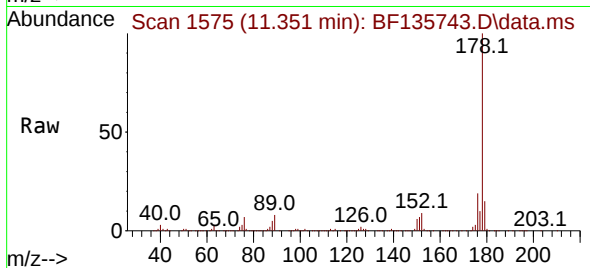
179 15.5 12.6 19.0

Manual Integrations

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Reviewed By :Yogesh Patel 10/13/2023

Supervised By :mohammad ahmed 10/13/2023



#73

Carbazole

Concen: 21.987 ng

RT: 11.510 min Scan# 1602

Delta R.T. -0.006 min

Lab File: BF135743.D

Acq: 12 Oct 2023 19:35

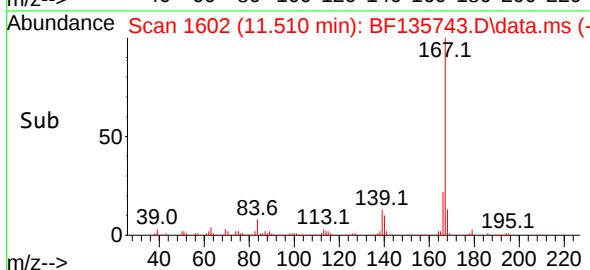
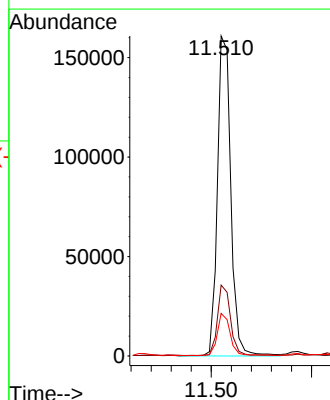
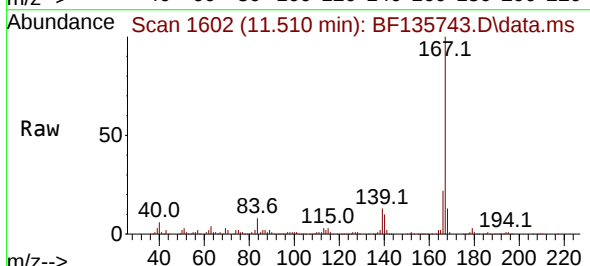
Tgt Ion:167 Resp: 149238

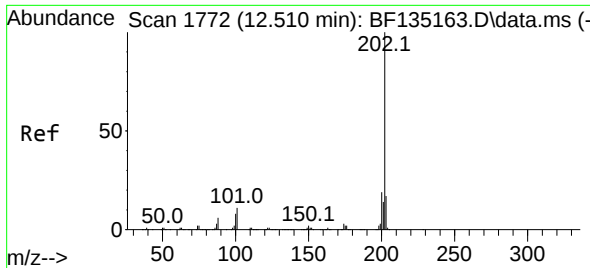
Ion Ratio Lower Upper

167 100

166 22.1 17.4 26.0

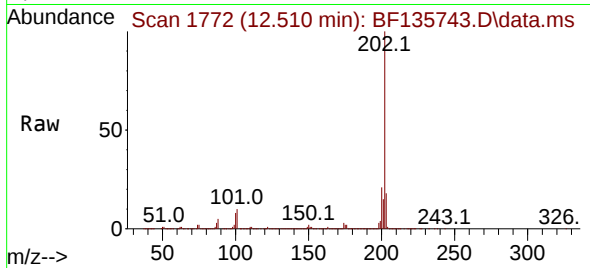
139 13.3 10.6 15.8





#75
Fluoranthene
Concen: 215.281 ng
RT: 12.510 min Scan# 11
Delta R.T. 0.012 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

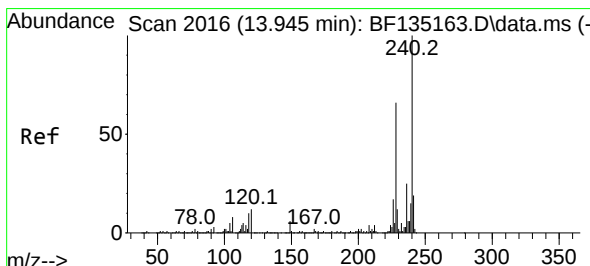
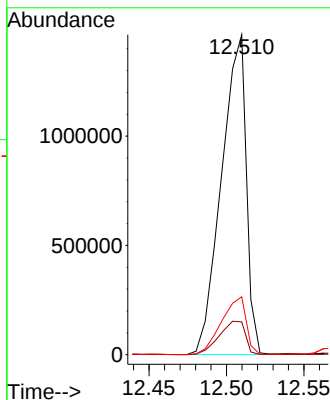
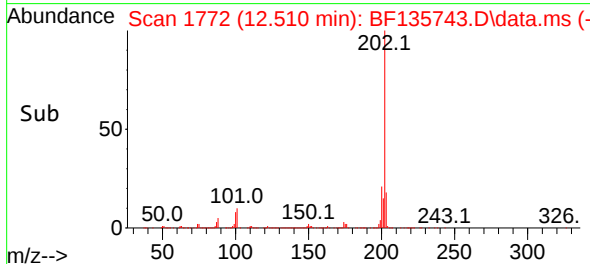
Instrument :
BNA_F
ClientSampleId :
V-2(0-2IN)



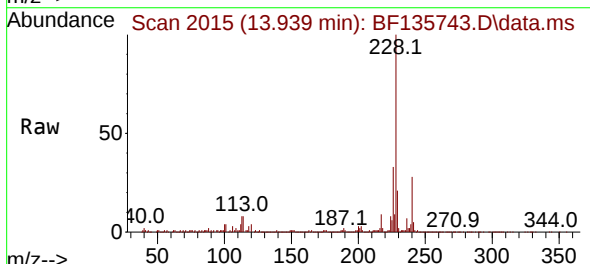
Tgt Ion:202 Resp: 1627198
Ion Ratio Lower Upper
202 100
101 10.3 0.0 31.3
203 18.1 0.0 37.4

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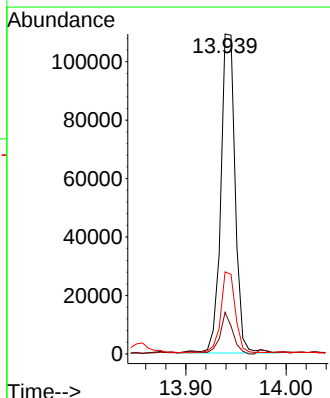
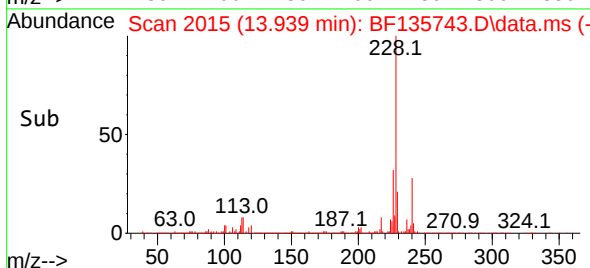
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023

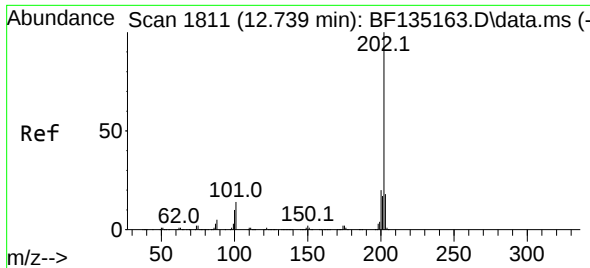


#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.939 min Scan# 2015
Delta R.T. 0.000 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35



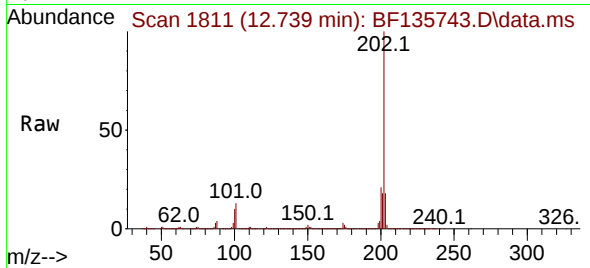
Tgt Ion:240 Resp: 108940
Ion Ratio Lower Upper
240 100
120 13.0 9.4 14.2
236 25.7 19.8 29.8





#78
Pyrene
Concen: 143.360 ng
RT: 12.739 min Scan# 1811
Delta R.T. 0.012 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

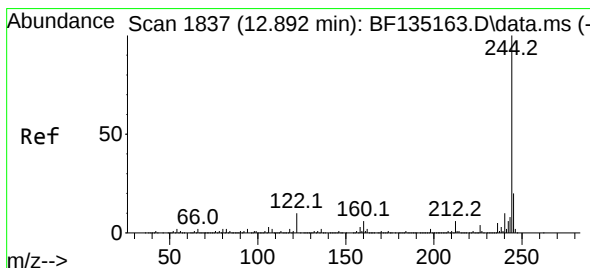
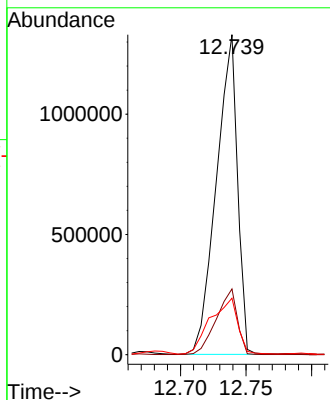
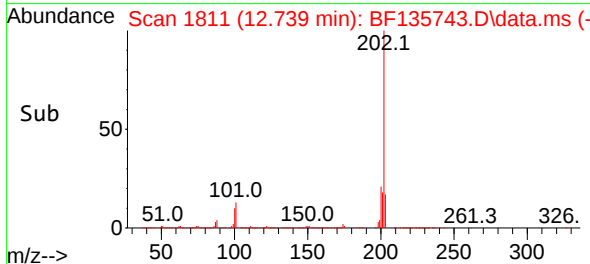
Instrument :
BNA_F
ClientSampleId :
V-2(0-2IN)



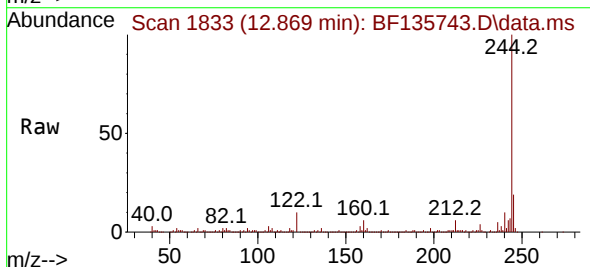
Tgt Ion:202 Resp: 1486919
Ion Ratio Lower Upper
202 100
200 20.6 16.2 24.2
203 17.7 14.2 21.4

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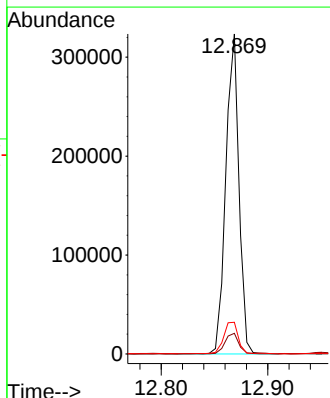
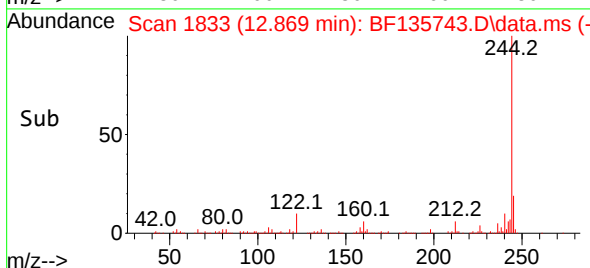
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023

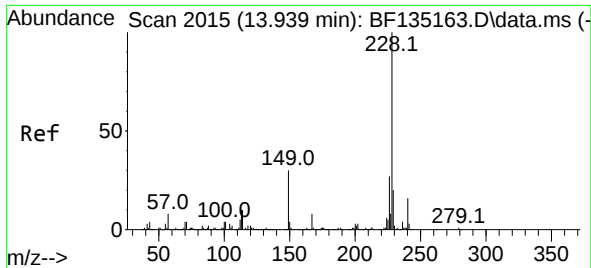


#79
Terphenyl-d14
Concen: 39.340 ng
RT: 12.869 min Scan# 1833
Delta R.T. 0.000 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35



Tgt Ion:244 Resp: 276461
Ion Ratio Lower Upper
244 100
212 6.5 5.1 7.7
122 9.9 7.9 11.9





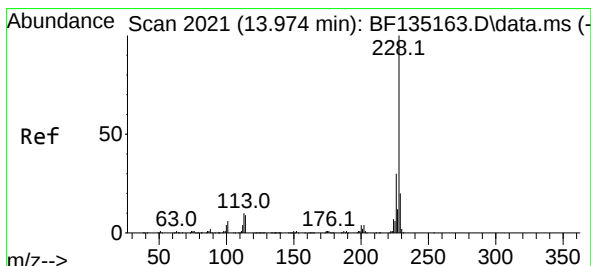
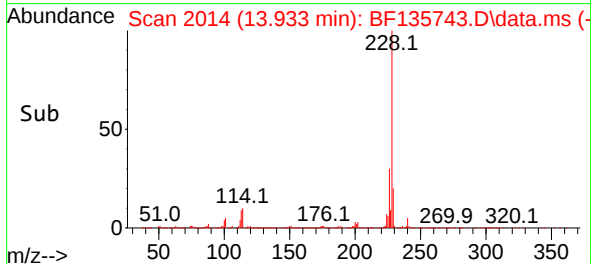
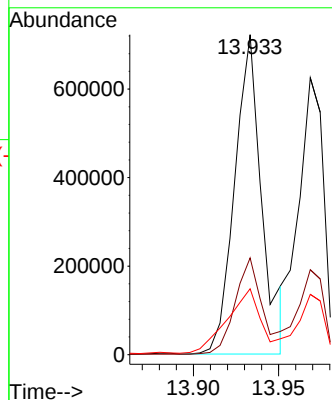
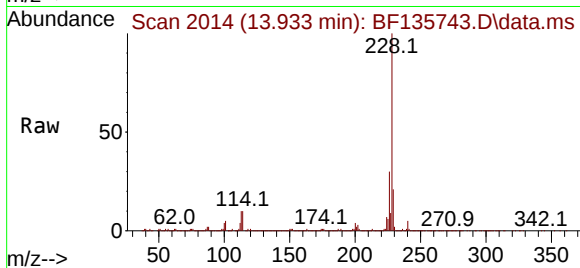
#81
Benzo(a)anthracene
Concen: 113.319 ng
RT: 13.933 min Scan# 2015
Delta R.T. 0.006 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Instrument :
BNA_F
ClientSampleId :
V-2(0-2IN)

Tgt Ion:228 Resp: 797149
Ion Ratio Lower Upper
228 100
226 30.3 21.7 32.5
229 20.6 15.8 23.8

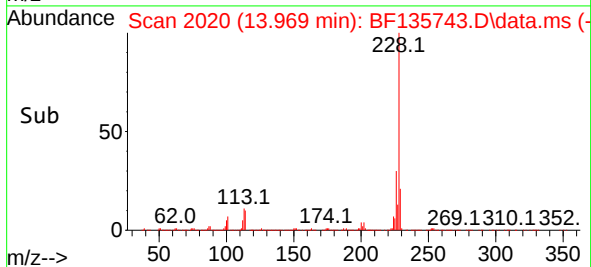
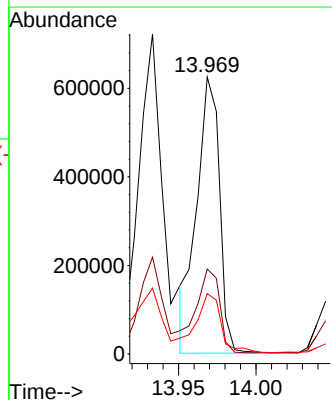
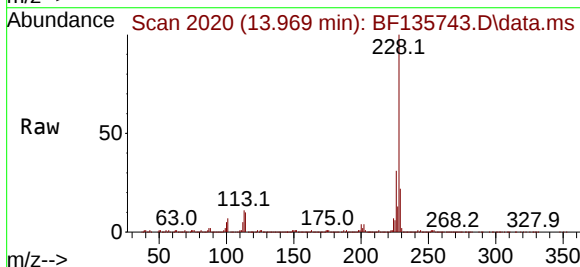
Manual Integrations
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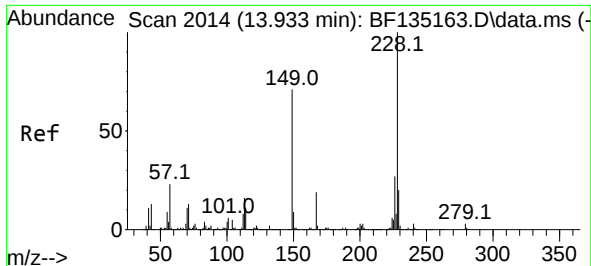
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#83
Chrysene
Concen: 91.422 ng
RT: 13.969 min Scan# 2020
Delta R.T. 0.006 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Tgt Ion:228 Resp: 639402
Ion Ratio Lower Upper
228 100
226 30.7 24.3 36.5
229 21.8 16.0 24.0





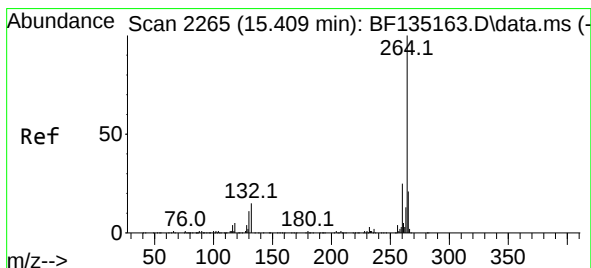
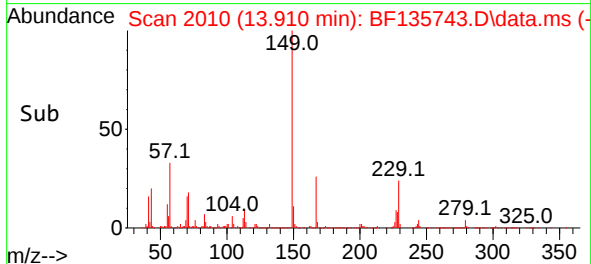
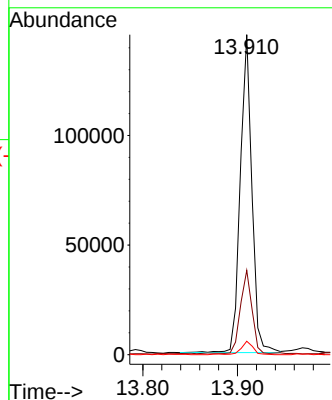
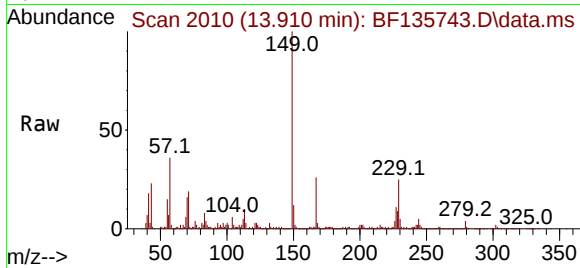
#84
Bis(2-ethylhexyl)phthalate
Concen: 32.850 ng
RT: 13.910 min Scan# 2010
Delta R.T. 0.000 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Instrument :
BNA_F
ClientSampleId :
V-2(0-2IN)

Tgt Ion:149 Resp: 12310
Ion Ratio Lower Upper
149 100
167 26.4 21.9 32.9
279 4.2 3.3 4.9

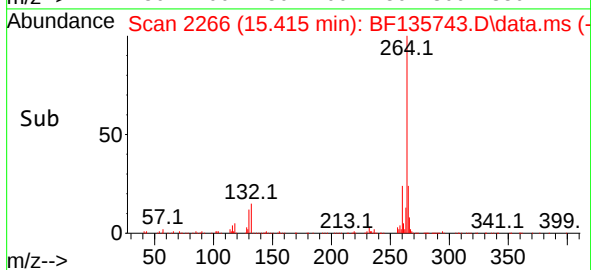
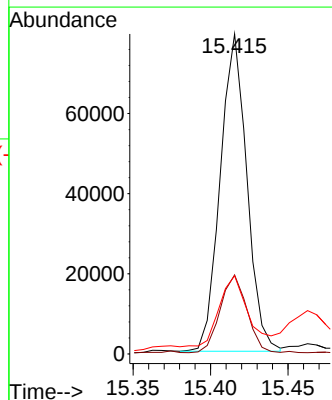
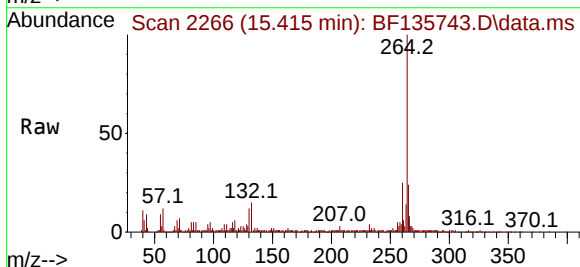
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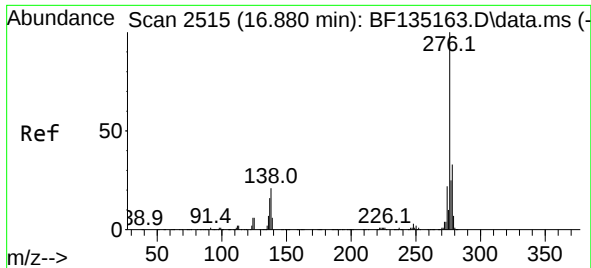
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#86
Perylene-d12
Concen: 20.000 ng
RT: 15.415 min Scan# 2266
Delta R.T. 0.012 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Tgt Ion:264 Resp: 94490
Ion Ratio Lower Upper
264 100
260 24.7 19.8 29.6
265 24.5 17.0 25.4





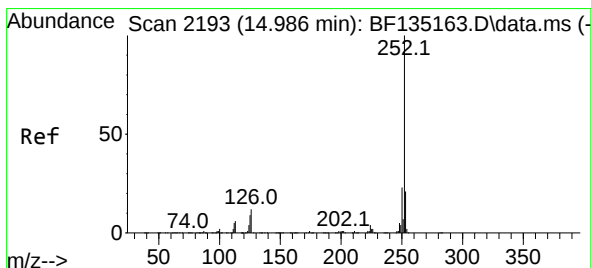
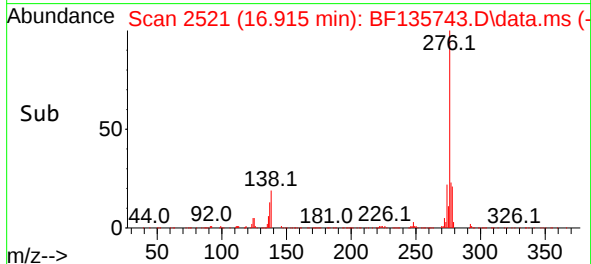
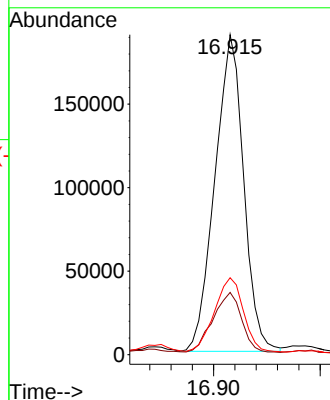
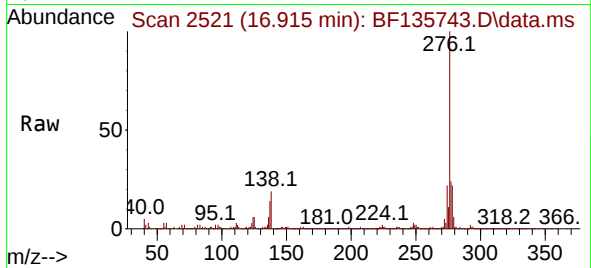
#87
Indeno(1,2,3-cd)pyrene
Concen: 57.291 ng
RT: 16.915 min Scan# 2194
Delta R.T. 0.012 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Instrument :
BNA_F
ClientSampleId :
V-2(0-2IN)

Tgt Ion:276 Resp: 354938
Ion Ratio Lower Upper
276 100
138 19.5 19.2 28.8
277 24.2 19.7 29.5

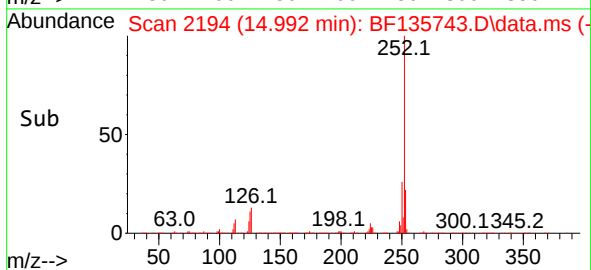
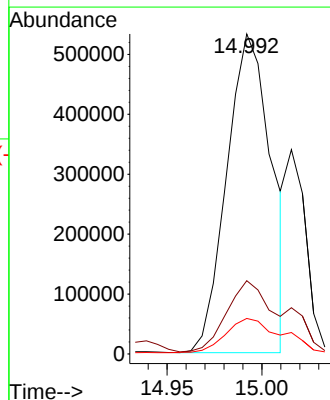
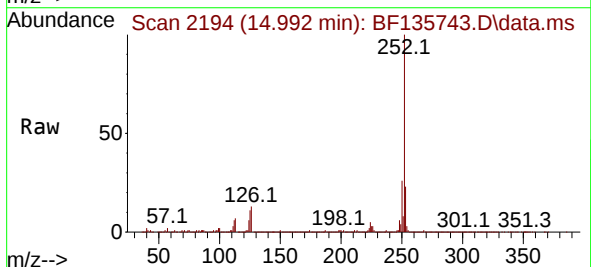
Manual Integrations
APPROVED

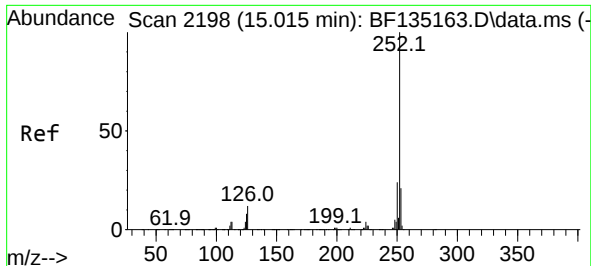
Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#88
Benzo(b)fluoranthene
Concen: 169.728 ng m
RT: 14.992 min Scan# 2194
Delta R.T. 0.012 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Tgt Ion:252 Resp: 868175
Ion Ratio Lower Upper
252 100
253 22.9 17.2 25.8
125 11.1 7.1 10.7#





#89

Benzo(k)fluoranthene

Concen: 47.672 ng m

RT: 15.016 min Scan# 2198

Delta R.T. 0.012 min

Lab File: BF135743.D

Acq: 12 Oct 2023 19:35

Instrument :

BNA_F

ClientSampleId :

V-2(0-2IN)

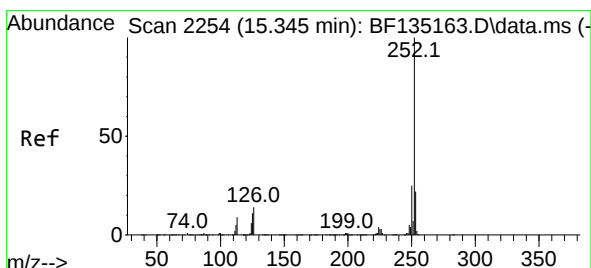
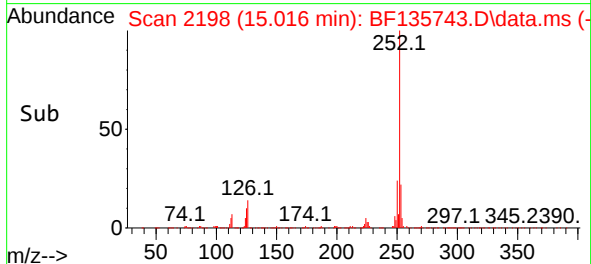
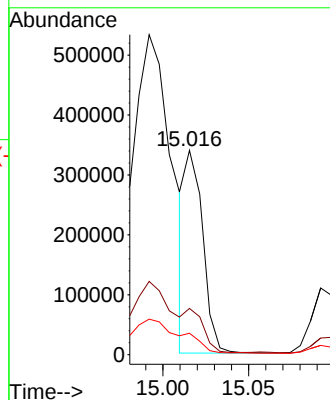
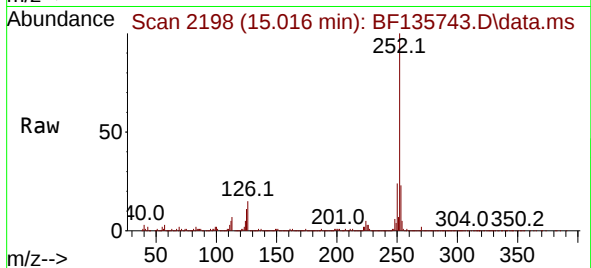
Tgt Ion:252 Resp: 24087
 Ion Ratio Lower Upper
 252 100
 253 22.6 17.4 26.0
 125 10.5 7.2 10.8

Manual Integrations

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Reviewed By :Yogesh Patel 10/13/2023

Supervised By :mohammad ahmed 10/13/2023



#90

Benzo(a)pyrene

Concen: 114.600 ng

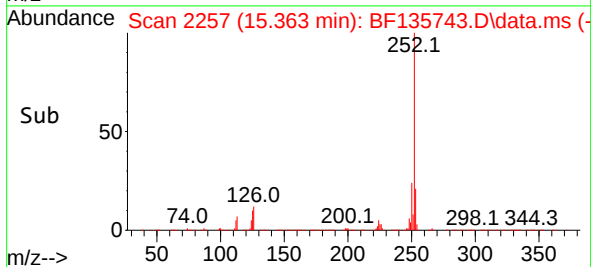
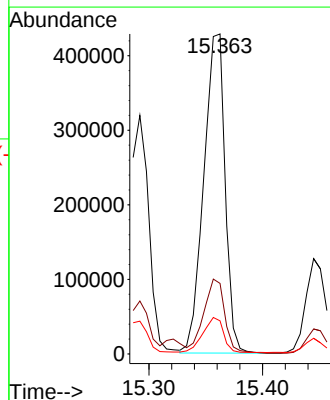
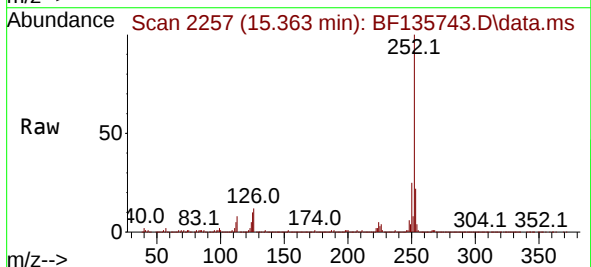
RT: 15.363 min Scan# 2257

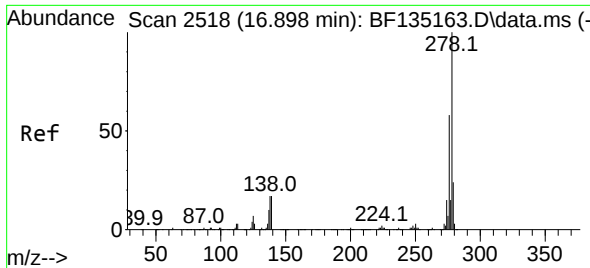
Delta R.T. 0.018 min

Lab File: BF135743.D

Acq: 12 Oct 2023 19:35

Tgt Ion:252 Resp: 559009
 Ion Ratio Lower Upper
 252 100
 253 22.1 17.5 26.3
 125 10.3 9.2 13.8





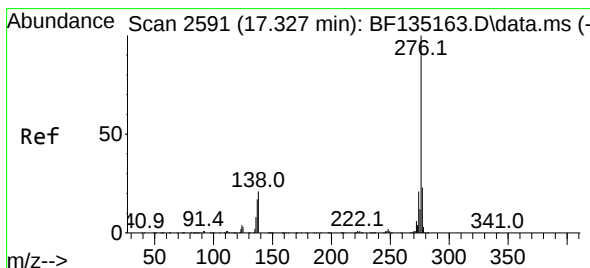
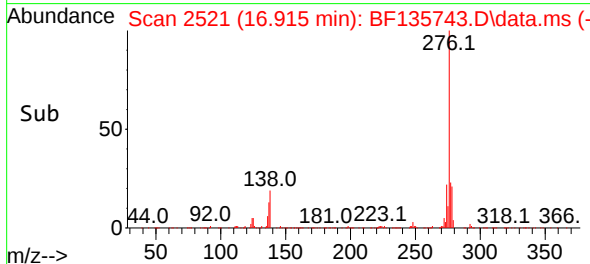
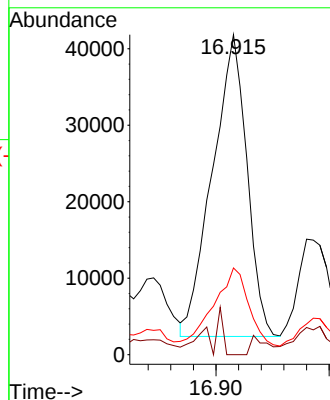
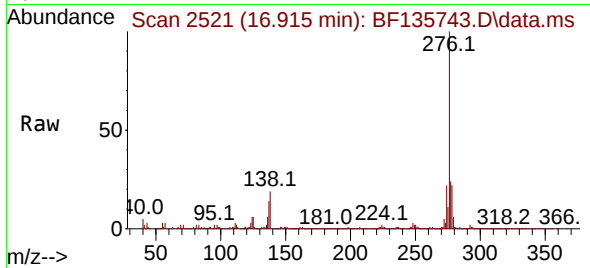
#91
Dibenzo(a,h)anthracene
Concen: 16.458 ng m
RT: 16.915 min Scan# 2521
Delta R.T. 0.006 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Instrument :
BNA_F
ClientSampleId :
V-2(0-2IN)

Tgt Ion:278 Resp: 8342
Ion Ratio Lower Upper
278 100
139 0.0 13.4 20.0
279 27.1 19.0 28.6

Manual Integrations
APPROVED

Reviewed By :Yogesh Patel 10/13/2023
Supervised By :mohammad ahmed 10/13/2023



#92
Benzo(g,h,i)perylene
Concen: 64.696 ng
RT: 17.368 min Scan# 2598
Delta R.T. 0.018 min
Lab File: BF135743.D
Acq: 12 Oct 2023 19:35

Tgt Ion:276 Resp: 342505
Ion Ratio Lower Upper
276 100
277 24.0 18.8 28.2
138 20.1 16.9 25.3

