

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF100620\
 Data File : BF121848.D
 Acq On : 6 Oct 2020 12:51
 Operator : JU/CG
 Sample : L4247-04DL 10X
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 B-18(5-7)DL

Quant Time: Oct 06 13:23:09 2020
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF091020.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Oct 01 14:29:14 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.76	152	121809	20.00	ng	0.00
21) Naphthalene-d8	8.05	136	485651	20.00	ng	-0.01
39) Acenaphthene-d10	9.80	164	245496	20.00	ng	-0.01
64) Phenanthrene-d10	11.28	188	433273	20.00	ng	-0.01
76) Chrysene-d12	13.92	240	258842	20.00	ng	-0.01
86) Perylene-d12	15.36	264	264978	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.38	112	62145	7.58	ng	0.00
7) Phenol-d6	6.40	99	84410	7.85	ng	-0.01
23) Nitrobenzene-d5	7.33	82	55448	6.13	ng	-0.01
42) 2,4,6-Tribromophenol	10.59	330	14914	4.89	ng	-0.02
45) 2-Fluorobiphenyl	9.12	172	112736	6.95	ng	-0.01
79) Terphenyl-d14	12.86	244	98192	7.69	ng	-0.02

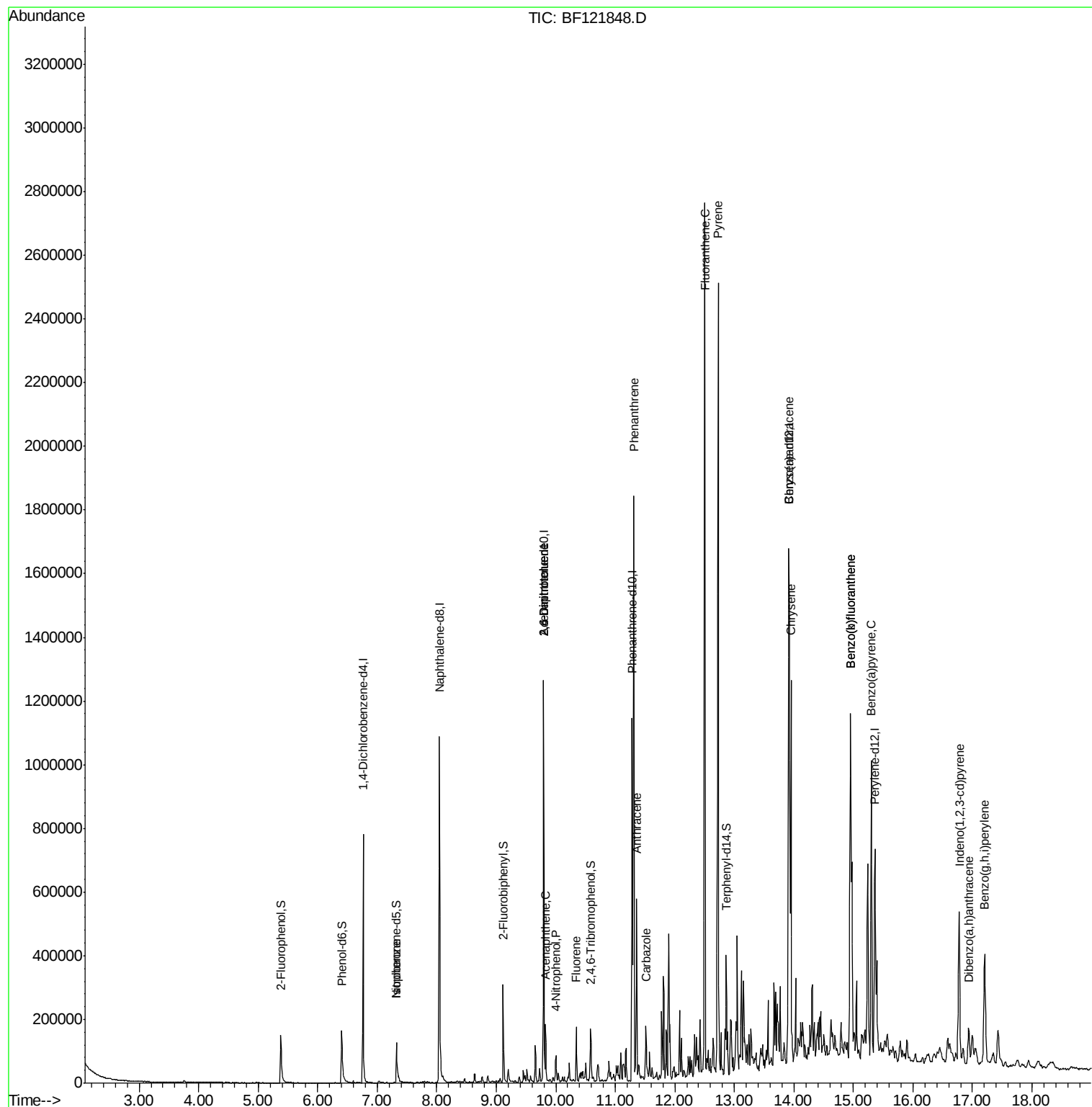
Target Compounds				Qvalue		
25) Isophorone	7.33	82	55447	3.045	ng	# 67
51) 2,6-Dinitrotoluene	9.80	165	31790	8.389	ng	# 20
52) Acenaphthene	9.83	154	33942	2.258	ng	98
56) 4-Nitrophenol	10.00	139	11001	3.142	ng	# 10
57) 2,4-Dinitrotoluene	9.80	165	31790	6.668	ng	# 20
58) Fluorene	10.35	166	46371	2.865	ng	98
71) Phenanthrene	11.31	178	660769	27.991	ng	100
72) Anthracene	11.36	178	206931	8.494	ng	98
73) Carbazole	11.52	167	58720	2.671	ng	97
75) Fluoranthene	12.50	202	1224874	48.607	ng	98
78) Pyrene	12.73	202	1023082	54.098	ng	100
81) Benzo(a)anthracene	13.92	228	537309	32.812	ng	99
83) Chrysene	13.95	228	451427	27.223	ng	98
87) Indeno(1,2,3-cd)pyrene	16.78	276	289359	16.768	ng	96
88) Benzo(b)fluoranthene	14.95	252	768547	43.386	ng	98
89) Benzo(k)fluoranthene	14.95	252	768547	47.378	ng	# 97
90) Benzo(a)pyrene	15.30	252	420727	27.941	ng	97
91) Dibenzo(a,h)anthracene	16.94	278	67329	4.687	ng	94
92) Benzo(a,h,i)perylene	17.20	276	271525	19.230	ng	99

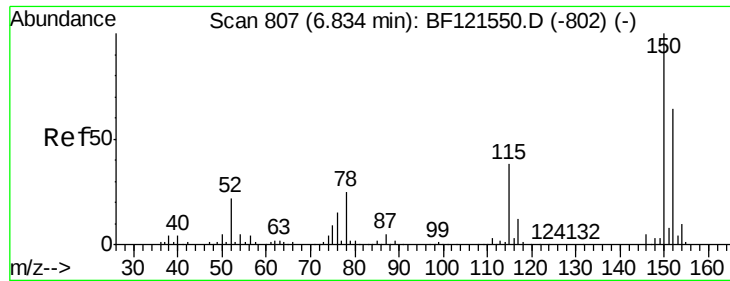
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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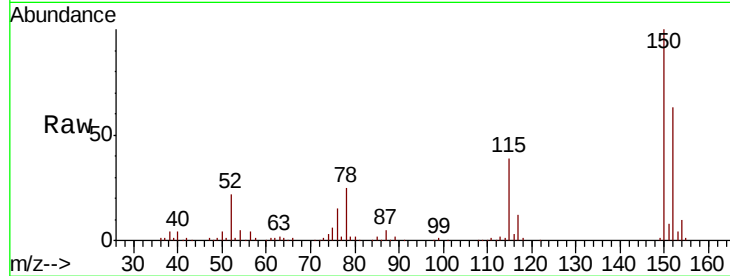


#1

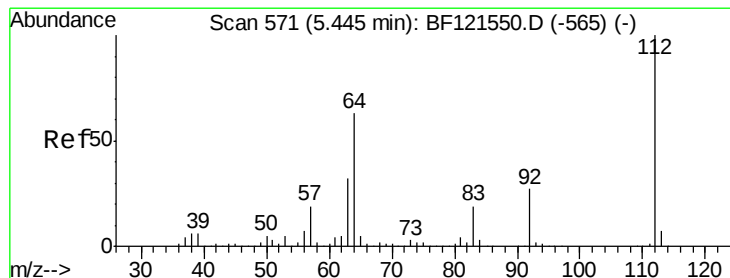
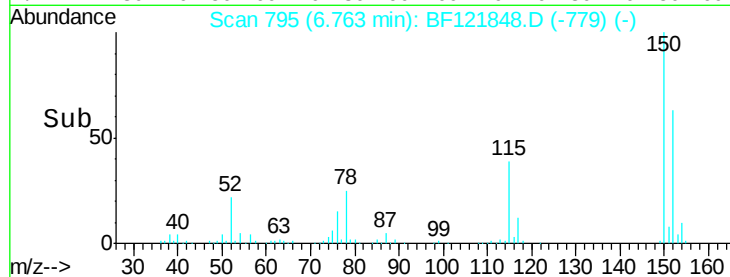
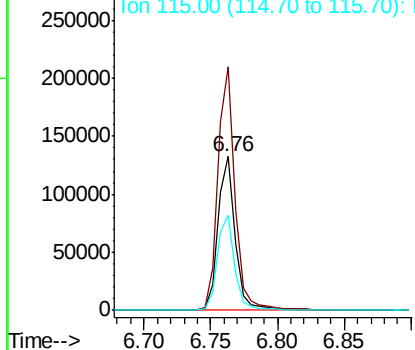
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.76 min Scan# 795
 Delta R.T. -0.01 min
 Lab File: BF121848.D
 Acq: 6 Oct 2020 12:51

Instrument :
 BNA_F
 ClientSampleId :
 B-18(5-7)DL

Tot Ion:152 Resp: 121809
 Ion Ratio Lower Upper
 152 100
 150 158.4 125.3 187.9
 115 61.8 51.9 77.9



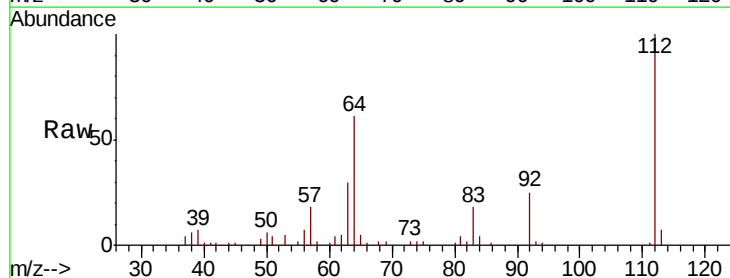
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



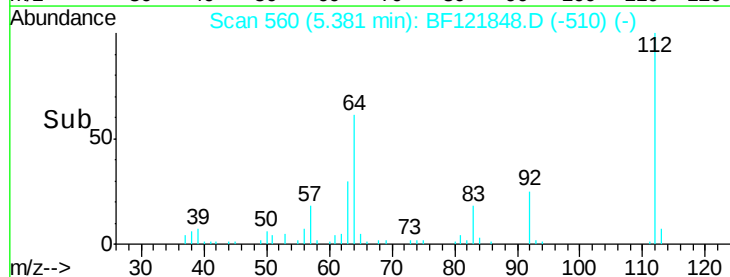
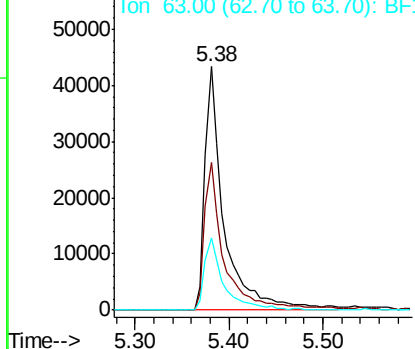
#5

2-Fluorophenol
 Concen: 7.582 ng
 RT: 5.38 min Scan# 560
 Delta R.T. -0.01 min
 Lab File: BF121848.D
 Acq: 6 Oct 2020 12:51

Tgt Ion:112 Resp: 62145
 Ion Ratio Lower Upper
 112 100
 64 60.7 50.4 75.6
 63 29.5 25.8 38.6



Abundance Ion 112.00 (111.70 to 112.70): E
 Ion 64.00 (63.70 to 64.70): BF1
 Ion 63.00 (62.70 to 63.70): BF1





#7

Phenol-d6

Concen: 7.850 ng

RT: 6.40 min Scan# 734

Delta R.T. -0.01 min

Lab File: BF121848.D

Acq: 6 Oct 2020 12:51

Instrument :

BNA_F

ClientSampleId :

B-18(5-7)DL

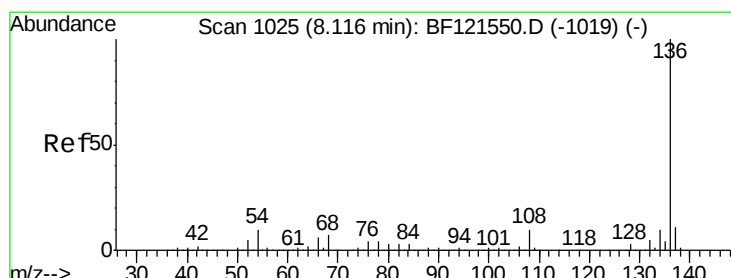
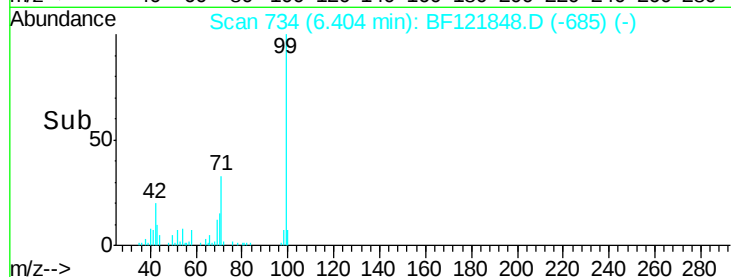
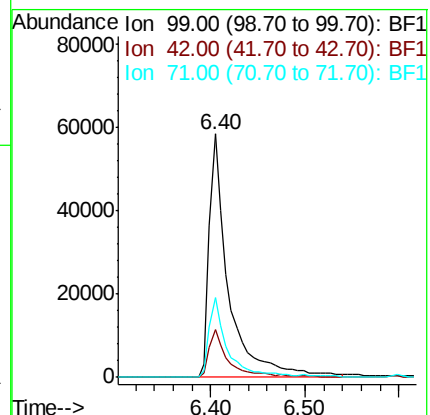
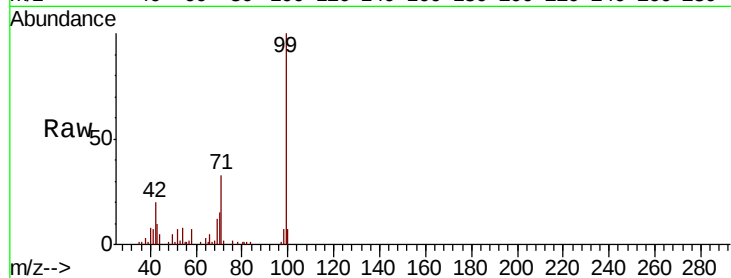
Tot Ion: 99 Resp: 84410

Ion Ratio Lower Upper

99 100

42 19.9 15.9 23.9

71 32.7 27.1 40.7



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.05 min Scan# 1013

Delta R.T. -0.01 min

Lab File: BF121848.D

Acq: 6 Oct 2020 12:51

Tgt Ion: 136 Resp: 485651

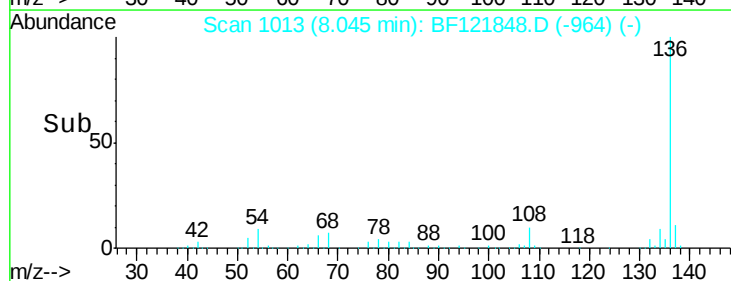
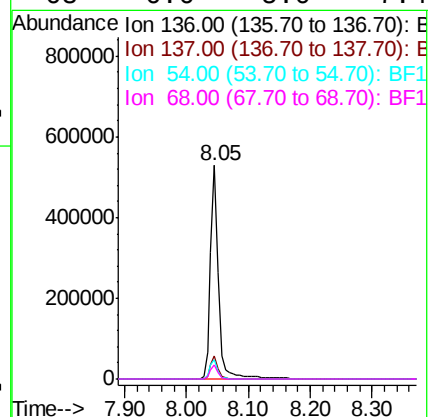
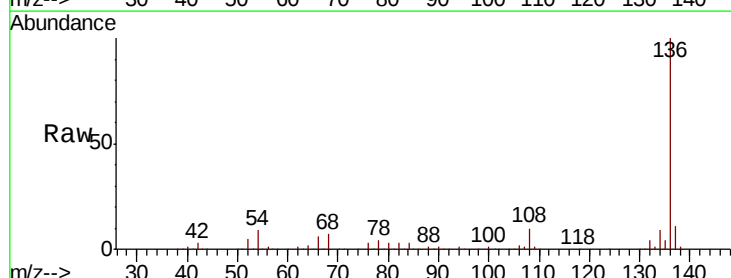
Ion Ratio Lower Upper

136 100

137 10.8 8.6 13.0

54 9.1 7.1 10.7

68 6.6 5.0 7.4

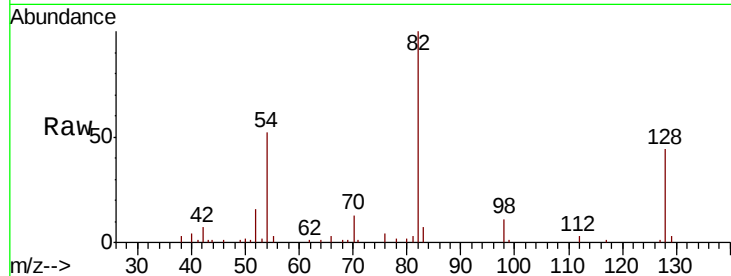




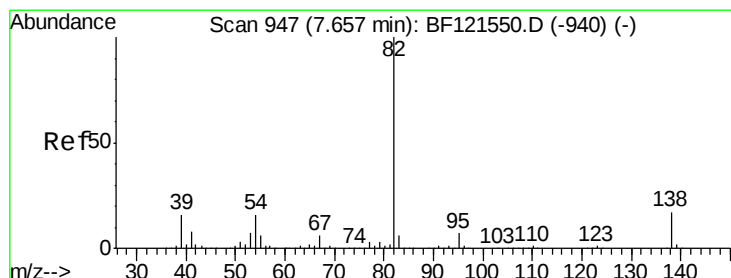
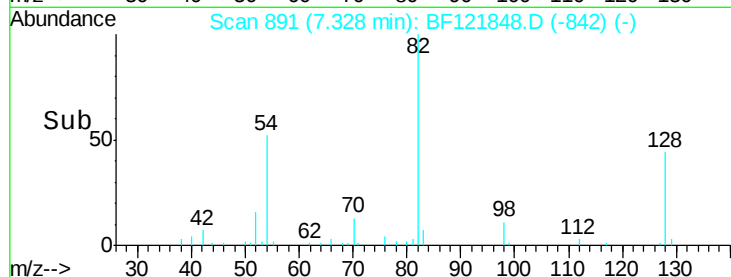
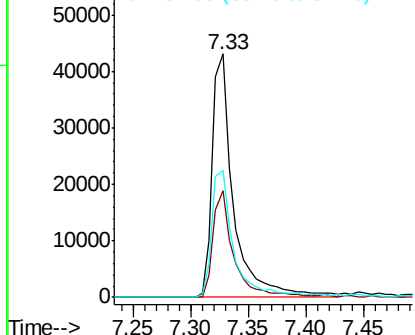
#23
Nitrobenzene-d5
Concen: 6.130 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.01 min
Lab File: BF121848.D
Acq: 6 Oct 2020 12:51

Instrument :
BNA_F
ClientSampleId :
B-18(5-7)DL

Tot Ion	82	Resp	55448
Ion Ratio	Lower	Upper	
82	100		
128	43.8	35.0	52.4
54	52.0	43.9	65.9

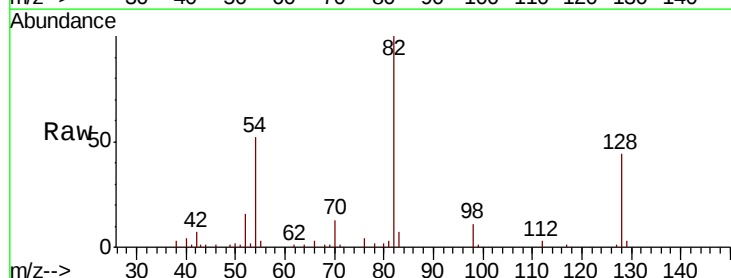


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

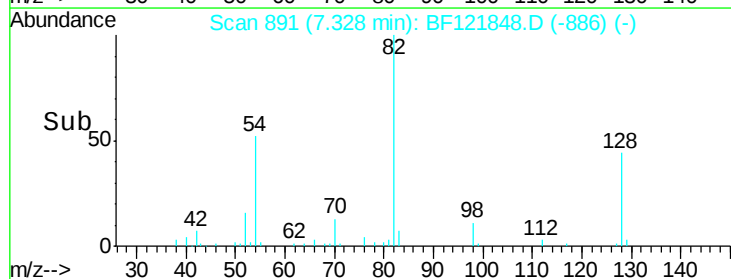
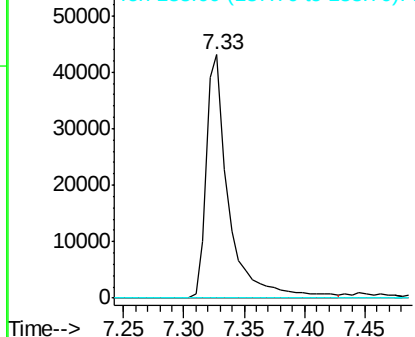


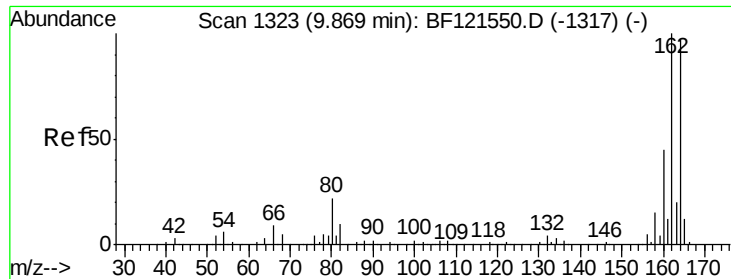
#25
Isophorone
Concen: 3.045 ng
RT: 7.33 min Scan# 891
Delta R.T. -0.27 min
Lab File: BF121848.D
Acq: 6 Oct 2020 12:51

Tgt Ion	82	Resp	55447
Ion Ratio	Lower	Upper	
82	100		
95	0.0	5.4	8.0#
138	0.0	13.4	20.0#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1

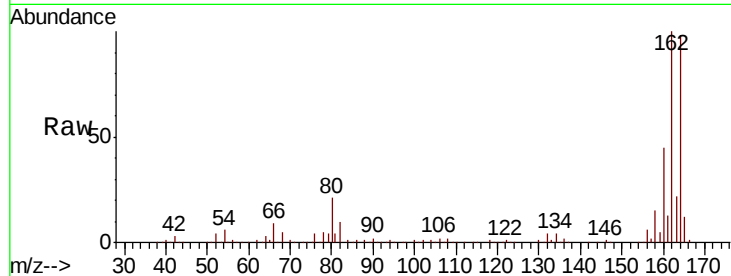




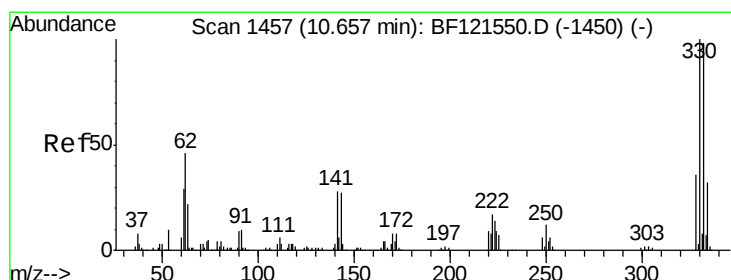
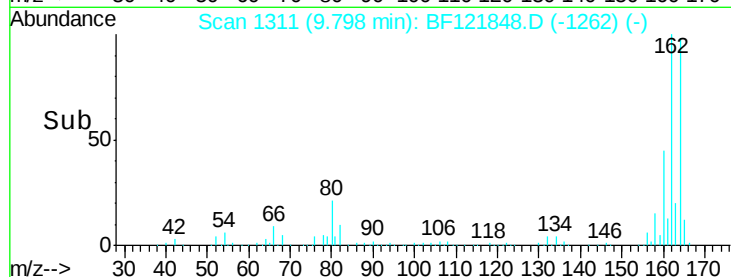
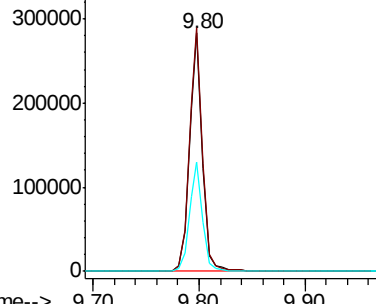
#39
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.80 min Scan# 1311
 Delta R.T. -0.01 min
 Lab File: BF121848.D
 Acq: 6 Oct 2020 12:51

Instrument :
 BNA_F
 ClientSampleId :
 B-18(5-7)DL

Tot Ion:164 Resp: 245496
 Ion Ratio Lower Upper
 164 100
 162 102.1 83.2 124.8
 160 45.8 37.5 56.3

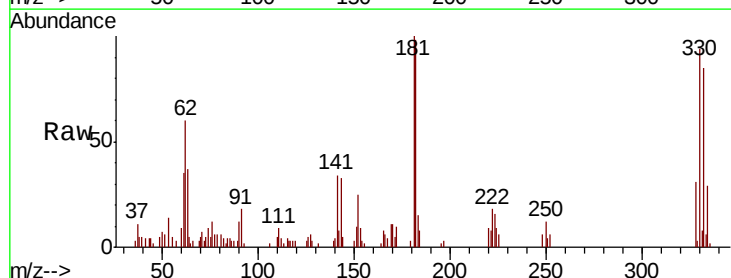


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

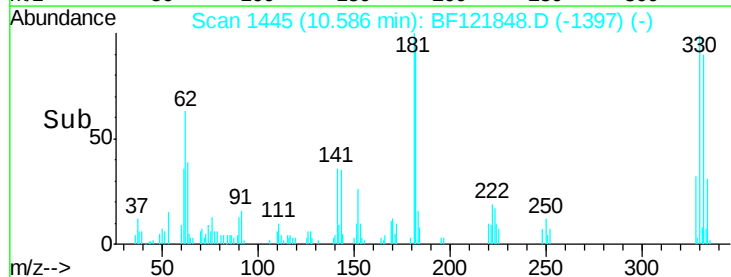
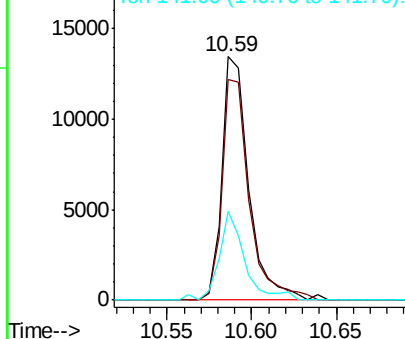


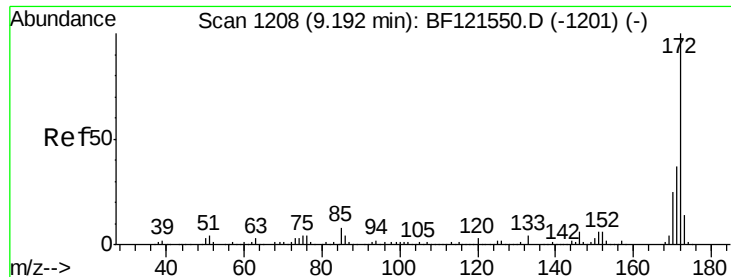
#42
 2,4,6-Tribromophenol
 Concen: 4.888 ng
 RT: 10.59 min Scan# 1445
 Delta R.T. -0.02 min
 Lab File: BF121848.D
 Acq: 6 Oct 2020 12:51

Tgt Ion:330 Resp: 14914
 Ion Ratio Lower Upper
 330 100
 332 92.5 77.3 115.9
 141 35.1 22.3 33.5#



Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

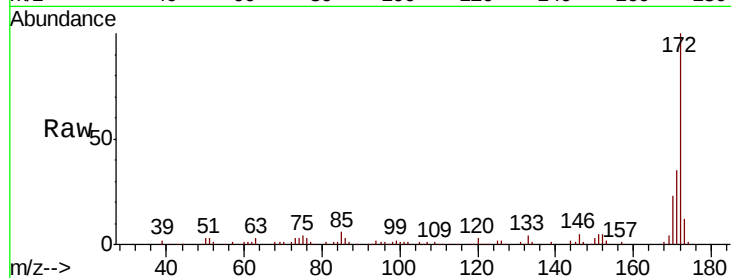




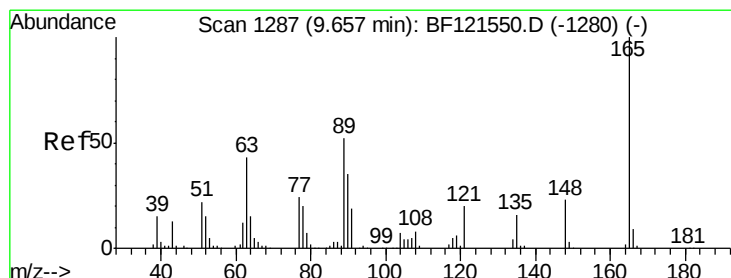
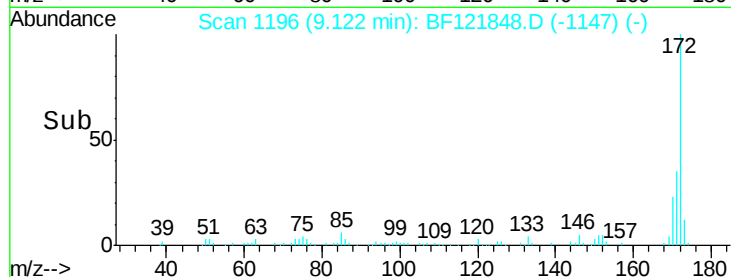
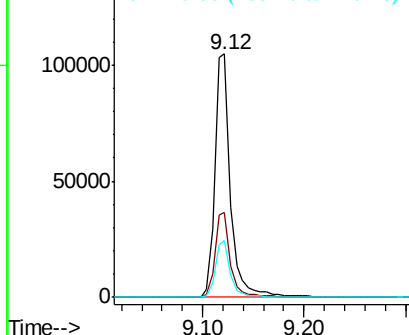
#45
2-Fluorobiphenyl
Concen: 6.955 ng
RT: 9.12 min Scan# 1196
Delta R.T. -0.01 min
Lab File: BF121848.D
Acq: 6 Oct 2020 12:51

Instrument :
BNA_F
ClientSampled :
B-18(5-7)DL

Tot Ion:172 Resp: 112736
Ion Ratio Lower Upper
172 100
171 34.9 29.1 43.7
170 23.1 19.8 29.6

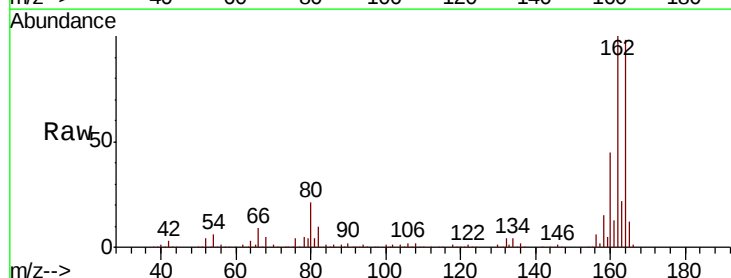


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

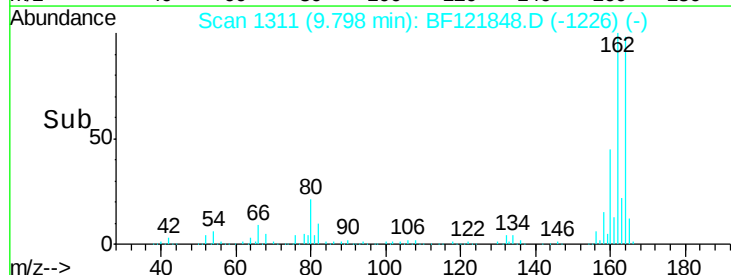
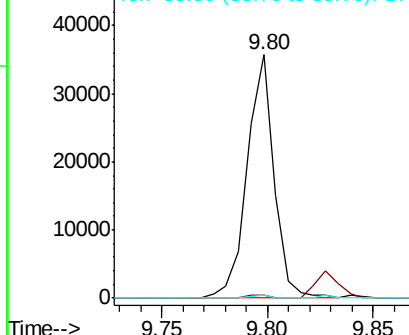


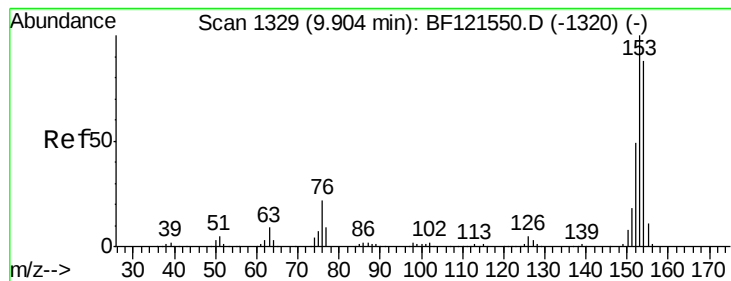
#51
2,6-Dinitrotoluene
Concen: 8.389 ng
RT: 9.80 min Scan# 1311
Delta R.T. 0.20 min
Lab File: BF121848.D
Acq: 6 Oct 2020 12:51

Tgt Ion:165 Resp: 31790
Ion Ratio Lower Upper
165 100
63 1.1 51.8 77.6#
89 1.3 49.0 73.6#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1





#52

Acenaphthene

Concen: 2.258 ng

RT: 9.83 min Scan# 1316

Delta R.T. -0.02 min

Lab File: BF121848.D

Acq: 6 Oct 2020 12:51

Instrument :

BNA_F

ClientSampleId :

B-18(5-7)DL

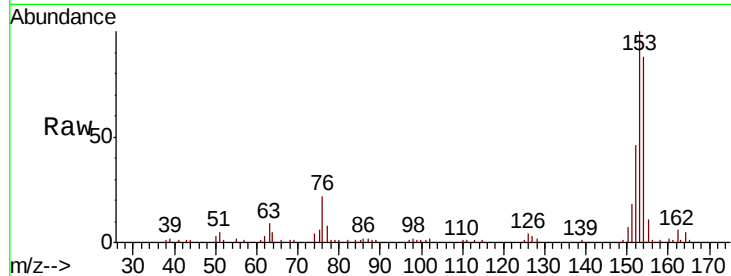
Tot Ion:154 Resp: 33942

Ion Ratio Lower Upper

154 100

153 113.3 89.8 134.8

152 51.7 43.2 64.8



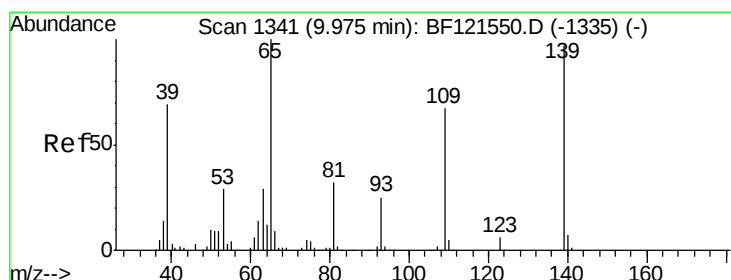
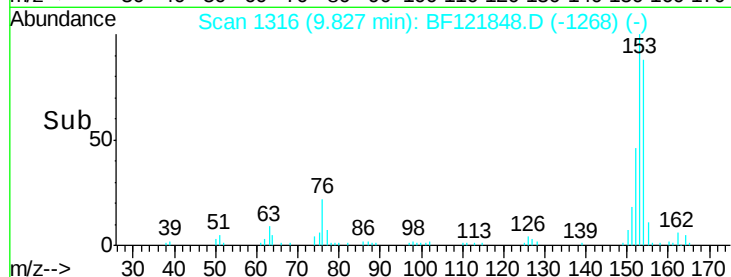
Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

9.83

Time-->



#56

4-Nitrophenol

Concen: 3.142 ng

RT: 10.00 min Scan# 1346

Delta R.T. 0.06 min

Lab File: BF121848.D

Acq: 6 Oct 2020 12:51

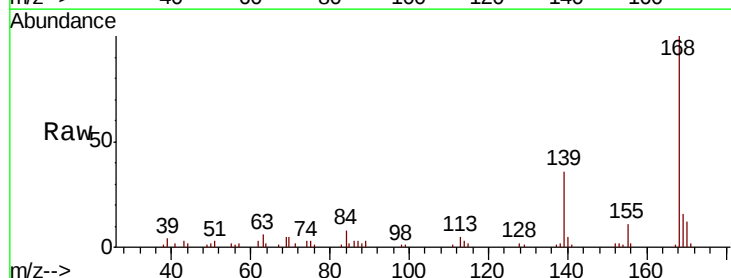
Tgt Ion:139 Resp: 11001

Ion Ratio Lower Upper

139 100

109 0.0 45.4 85.4#

65 0.0 68.4 108.4#



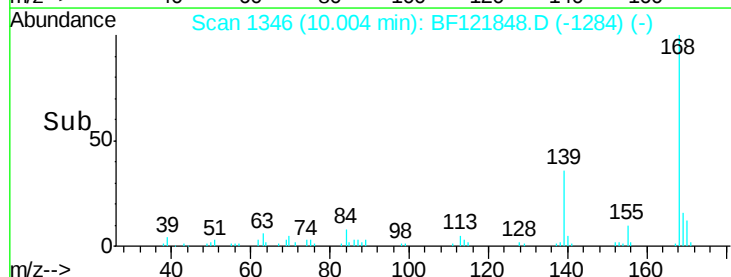
Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF1

10.00

Time-->

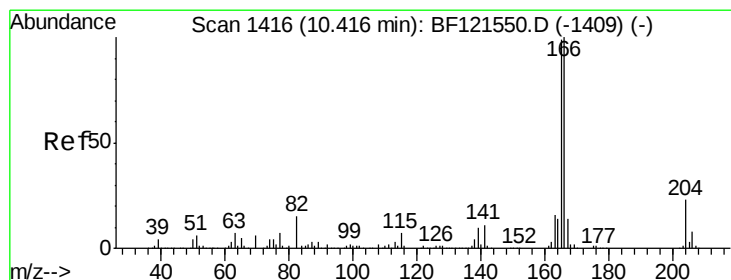
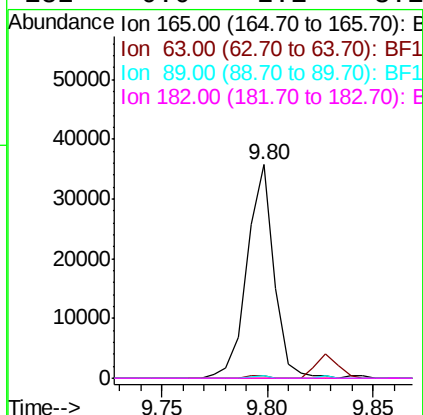
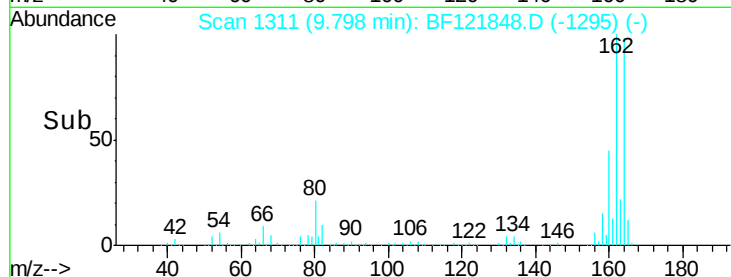
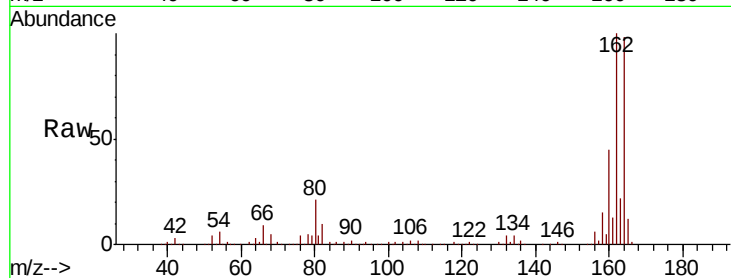




#57
2,4-Dinitrotoluene
Concen: 6.668 ng
RT: 9.80 min Scan# 1311
Delta R.T. -0.21 min
Lab File: BF121848.D
Acq: 6 Oct 2020 12:51

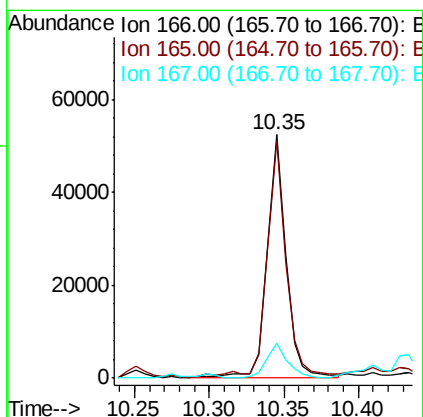
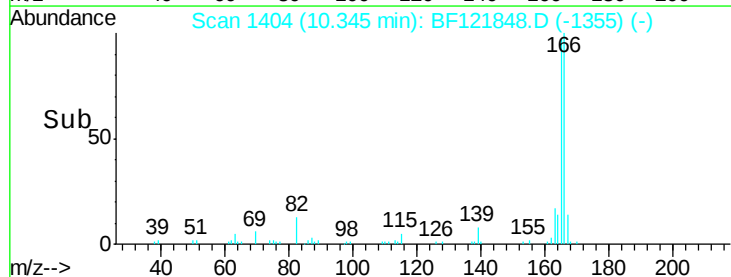
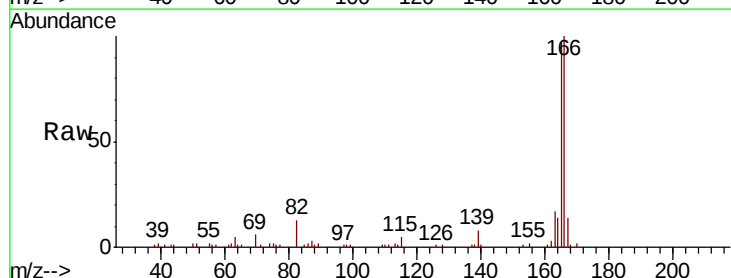
Instrument :
BNA_F
ClientSampleId :
B-18(5-7)DL

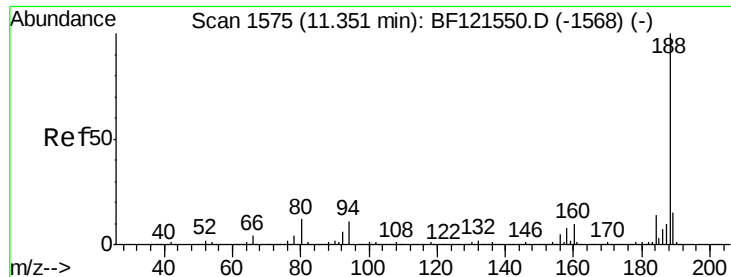
Tot Ion	Ratio	Lower	Upper
165	100		
63	1.1	41.3	61.9#
89	1.3	61.8	92.8#
182	0.0	2.1	3.1#



#58
Fluorene
Concen: 2.865 ng
RT: 10.35 min Scan# 1404
Delta R.T. -0.01 min
Lab File: BF121848.D
Acq: 6 Oct 2020 12:51

Tgt Ion	Ratio	Lower	Upper
166	100		
165	97.3	79.1	118.7
167	14.2	11.0	16.6





#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.28 min Scan# 1563

Delta R.T. -0.01 min

Lab File: BF121848.D

Acq: 6 Oct 2020 12:51

Instrument :

BNA_F

ClientSampleId :

B-18(5-7)DL

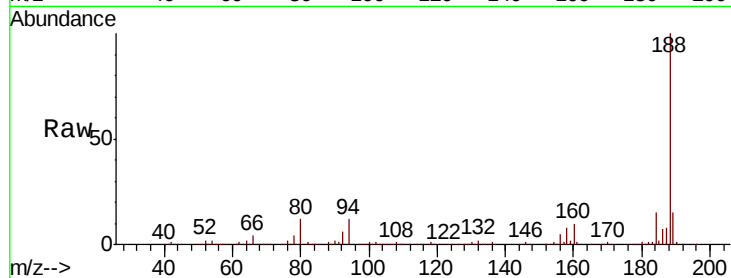
Tot Ion:188 Resp: 433273

Ion Ratio Lower Upper

188 100

94 11.5 8.3 12.5

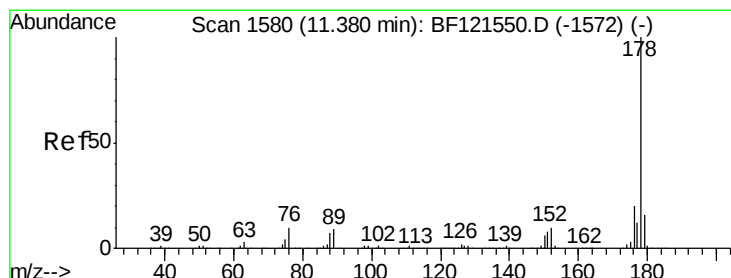
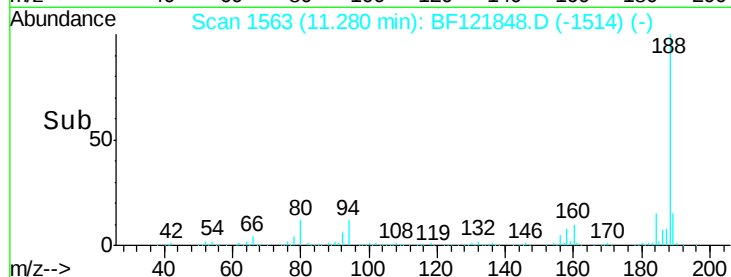
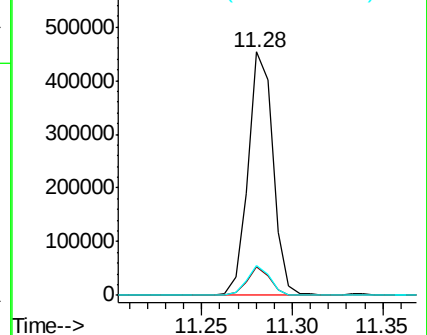
80 12.4 9.1 13.7



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1



#71

Phenanthrene

Concen: 27.991 ng

RT: 11.31 min Scan# 1568

Delta R.T. -0.01 min

Lab File: BF121848.D

Acq: 6 Oct 2020 12:51

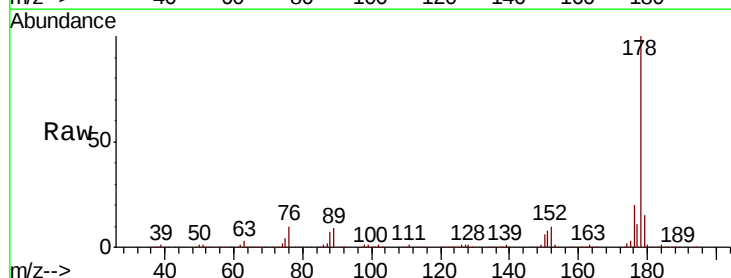
Tgt Ion:178 Resp: 660769

Ion Ratio Lower Upper

178 100

176 19.7 15.9 23.9

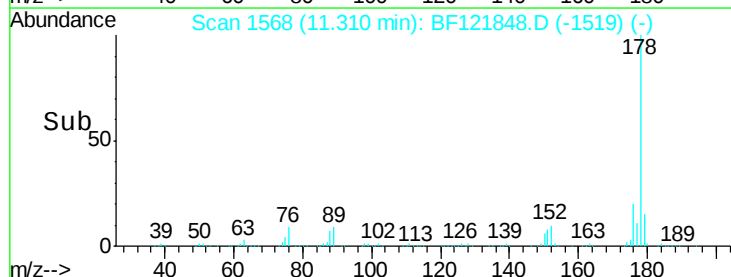
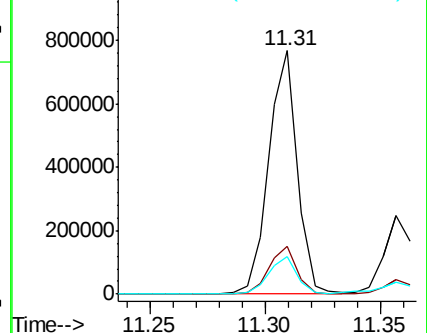
179 15.2 12.2 18.4

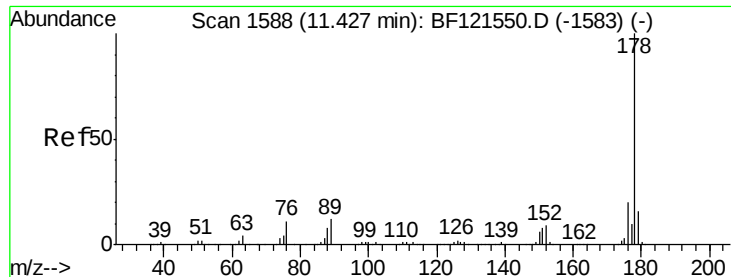


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Anthracene

Concen: 8.494 ng

RT: 11.36 min Scan# 1576

Delta R.T. -0.01 min

Lab File: BF121848.D

Acq: 6 Oct 2020 12:51

Instrument :

BNA_F

ClientSampleId :

B-18(5-7)DL

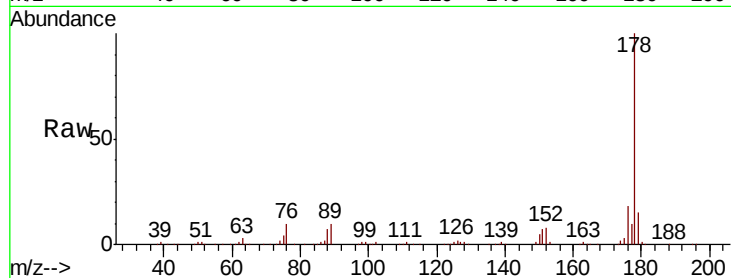
Tot Ion:178 Resp: 206931

Ion Ratio Lower Upper

178 100

176 18.1 15.7 23.5

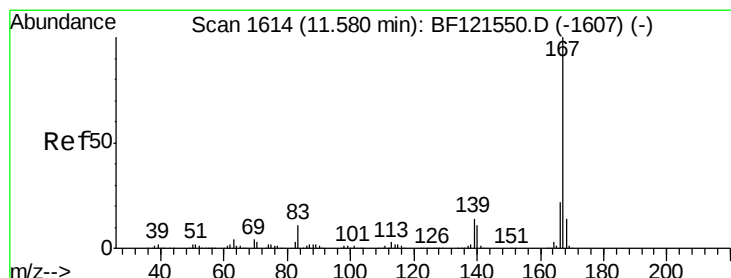
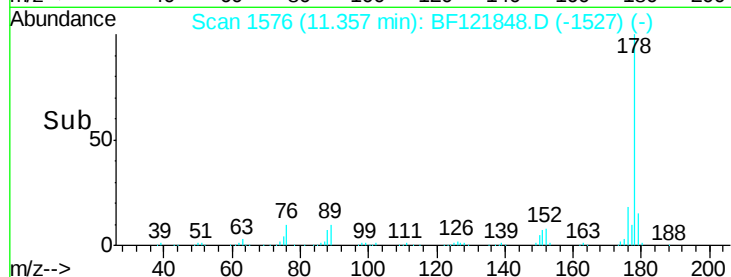
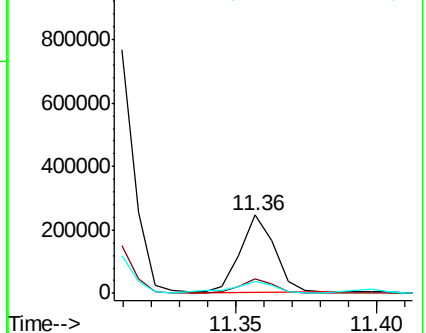
179 15.5 12.7 19.1



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#73

Carbazole

Concen: 2.671 ng

RT: 11.52 min Scan# 1603

Delta R.T. -0.01 min

Lab File: BF121848.D

Acq: 6 Oct 2020 12:51

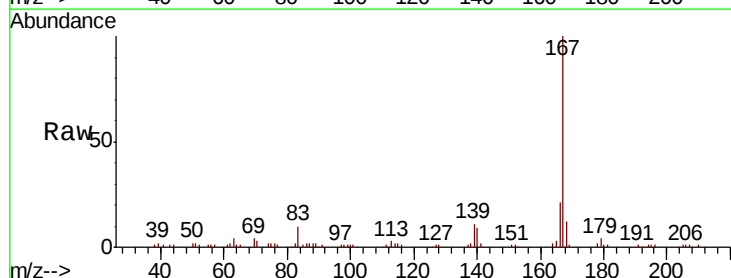
Tgt Ion:167 Resp: 58720

Ion Ratio Lower Upper

167 100

166 21.1 17.8 26.6

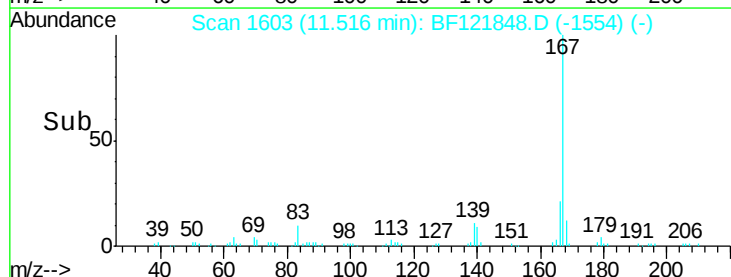
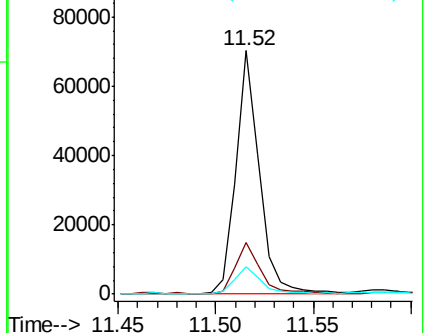
139 11.4 10.8 16.2

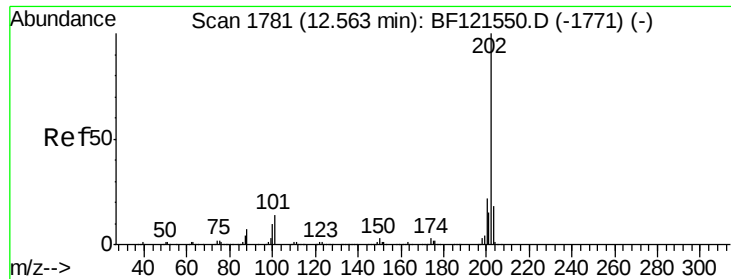


Abundance Ion 167.00 (166.70 to 167.70): E

Ion 166.00 (165.70 to 166.70): E

Ion 139.00 (138.70 to 139.70): E

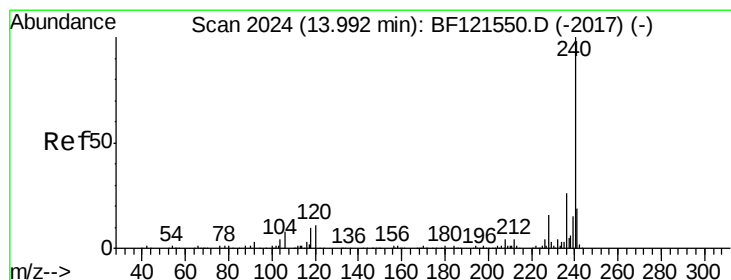
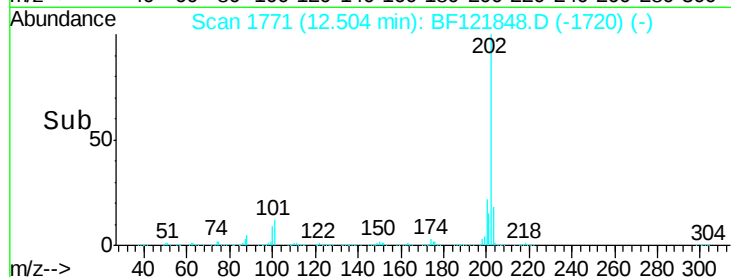
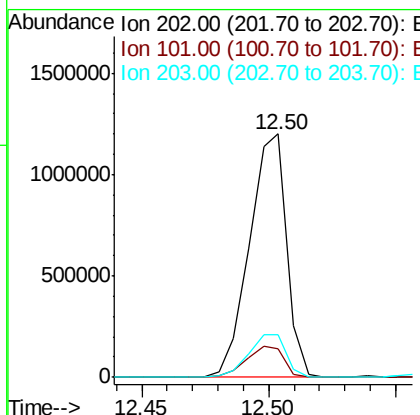
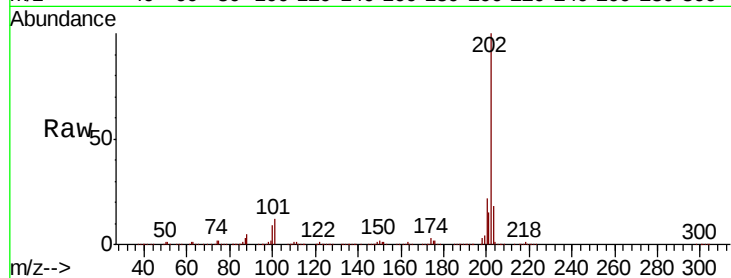




#75
 Fluoranthene
 Concen: 48.607 ng
 RT: 12.50 min Scan# 1771
 Delta R.T. 0.00 min
 Lab File: BF121848.D
 Acq: 6 Oct 2020 12:51

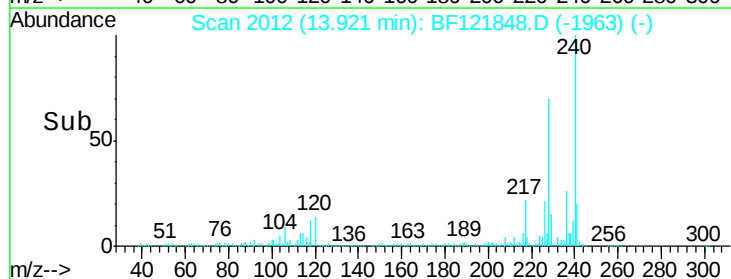
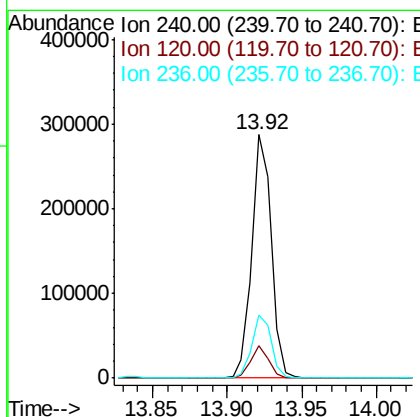
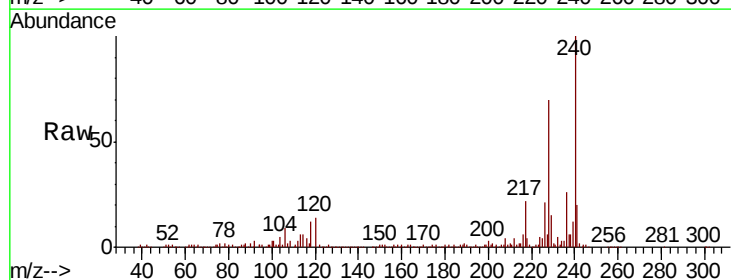
Instrument :
 BNA_F
 ClientSampleId :
 B-18(5-7)DL

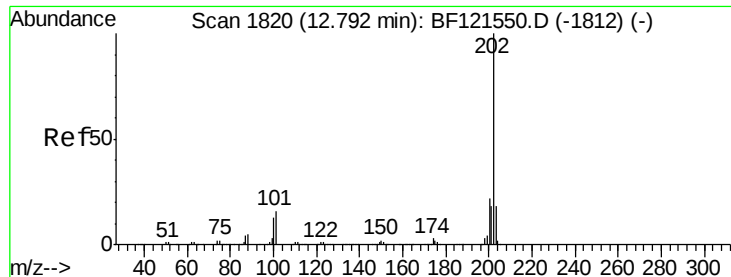
Tot Ion:202 Resp: 1224874
 Ion Ratio Lower Upper
 202 100
 101 11.6 0.0 33.4
 203 17.7 0.0 37.9



#76
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.92 min Scan# 2012
 Delta R.T. -0.01 min
 Lab File: BF121848.D
 Acq: 6 Oct 2020 12:51

Tgt Ion:240 Resp: 258842
 Ion Ratio Lower Upper
 240 100
 120 13.5 9.2 13.8
 236 25.7 20.9 31.3





#78

Pvrene

Concen: 54.098 ng

RT: 12.73 min Scan# 1809

Delta R.T. -0.01 min

Lab File: BF121848.D

Acq: 6 Oct 2020 12:51

Instrument :

BNA_F

ClientSampleId :

B-18(5-7)DL

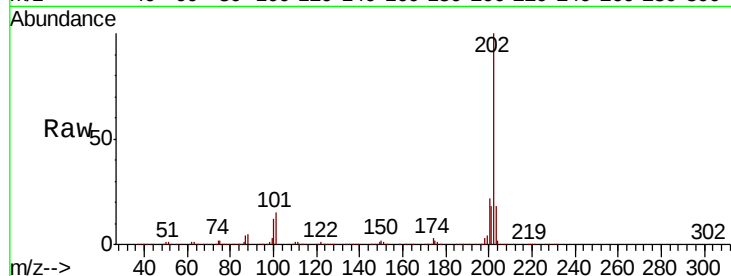
Tot Ion:202 Resp: 1023082

Ion Ratio Lower Upper

202 100

200 22.1 17.4 26.2

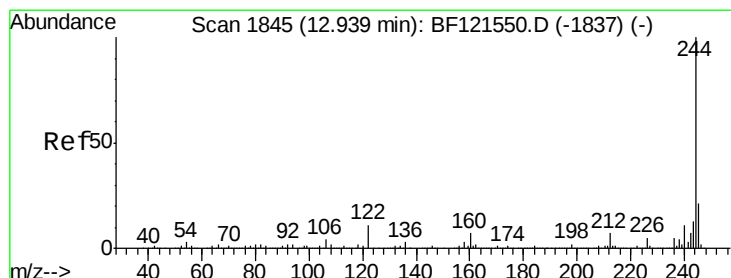
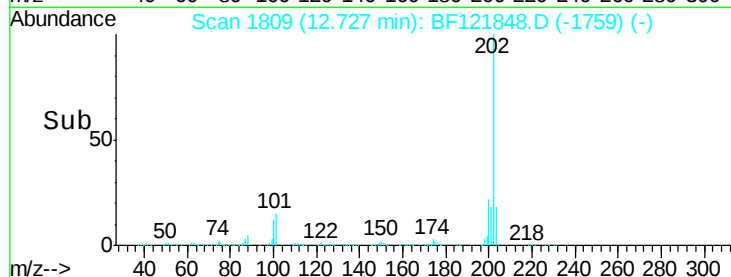
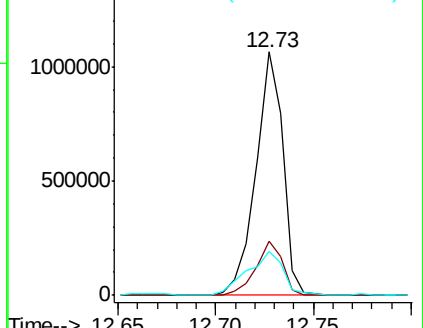
203 18.2 14.6 21.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#79

Terphenyl-d14

Concen: 7.685 ng

RT: 12.86 min Scan# 1832

Delta R.T. -0.02 min

Lab File: BF121848.D

Acq: 6 Oct 2020 12:51

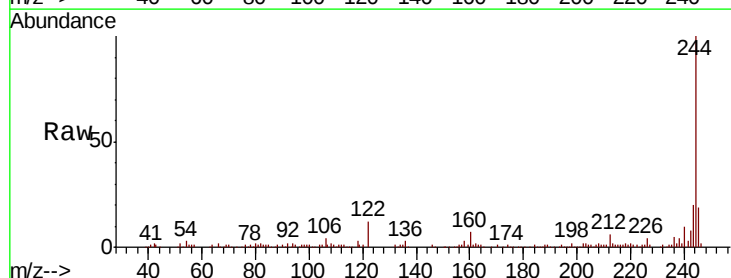
Tgt Ion:244 Resp: 98192

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.2

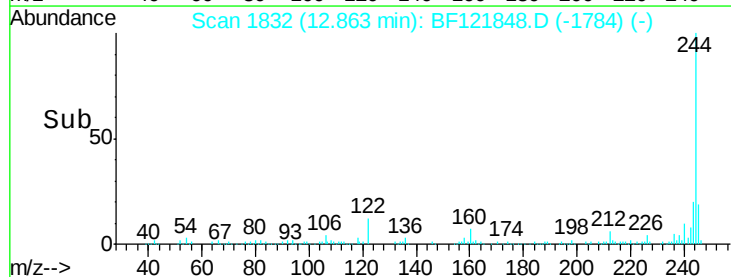
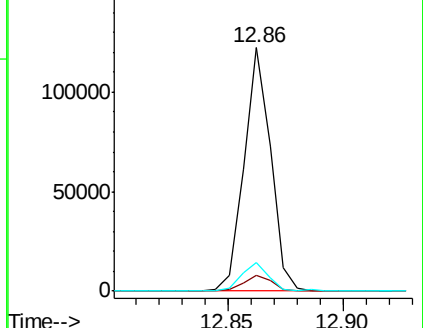
122 11.7 8.1 12.1

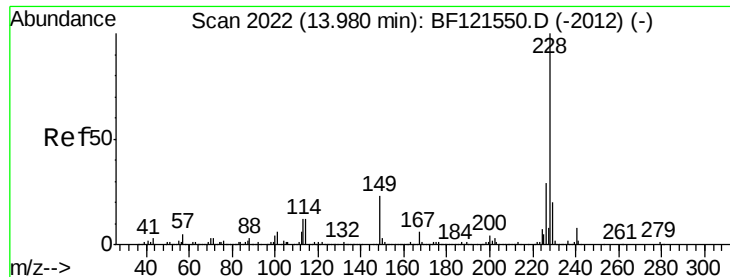


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#81

Benzo(a)anthracene

Concen: 32.812 ng

RT: 13.92 min Scan# 2011

Delta R.T. -0.01 min

Lab File: BF121848.D

Acq: 6 Oct 2020 12:51

Instrument :

BNA_F

ClientSampleId :

B-18(5-7)DL

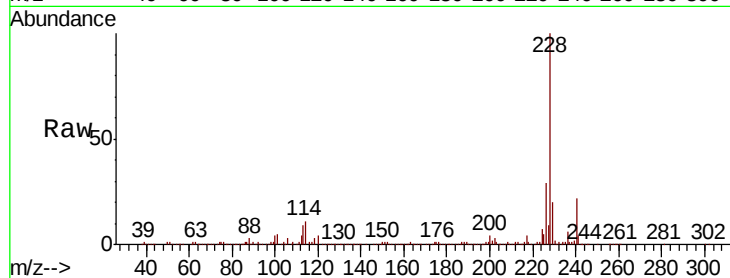
Tot Ion:228 Resp: 537309

Ion Ratio Lower Upper

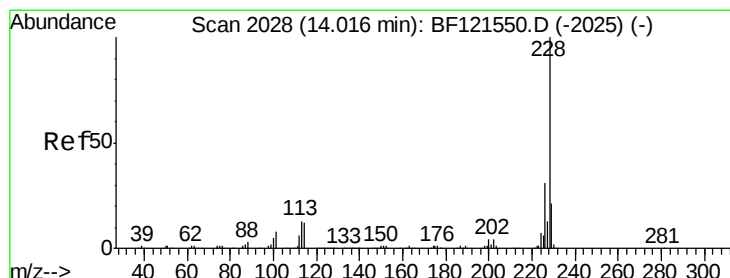
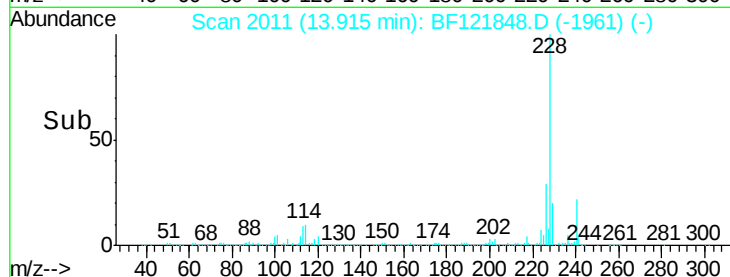
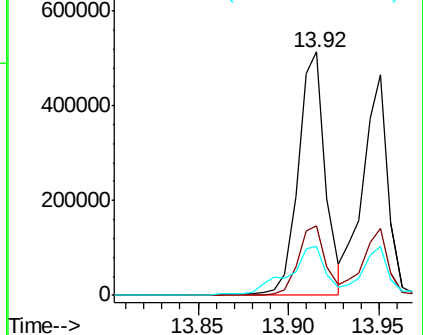
228 100

226 28.8 22.3 33.5

229 20.1 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E



#83

Chrysene

Concen: 27.223 ng

RT: 13.95 min Scan# 2017

Delta R.T. -0.01 min

Lab File: BF121848.D

Acq: 6 Oct 2020 12:51

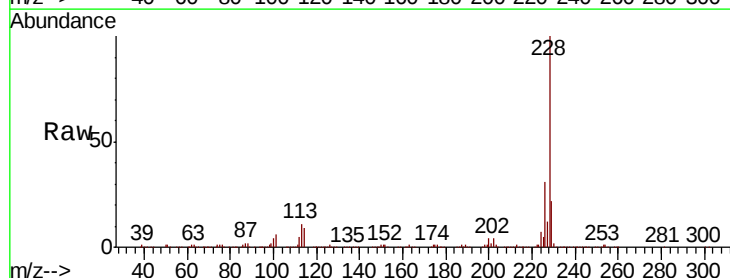
Tgt Ion:228 Resp: 451427

Ion Ratio Lower Upper

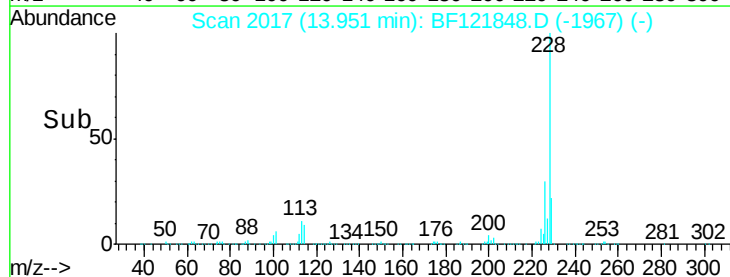
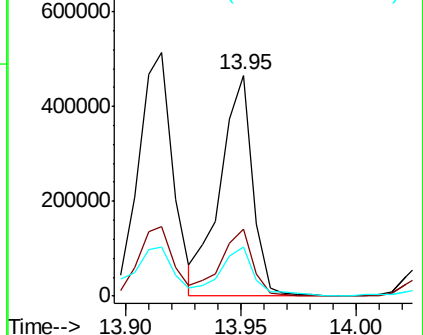
228 100

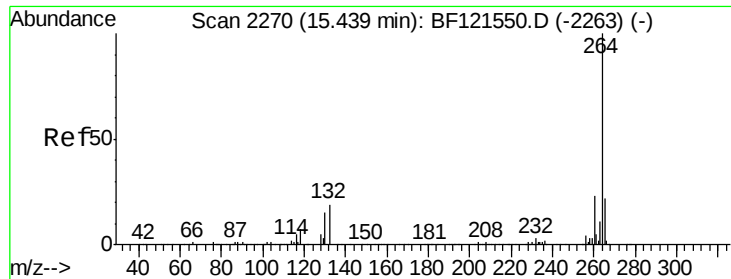
226 30.6 24.6 37.0

229 22.4 15.9 23.9



Abundance Ion 228.00 (227.70 to 228.70): E
Ion 226.00 (225.70 to 226.70): E
Ion 229.00 (228.70 to 229.70): E

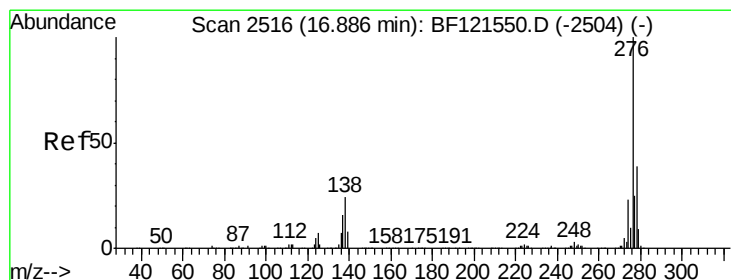
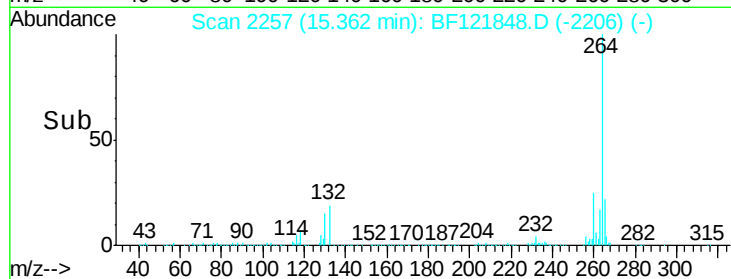
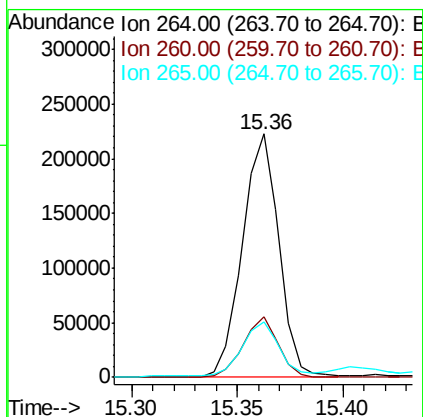
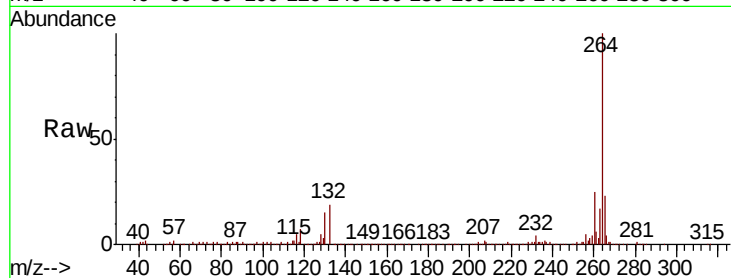




#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.36 min Scan# 2257
Delta R.T. 0.00 min
Lab File: BF121848.D
Acq: 6 Oct 2020 12:51

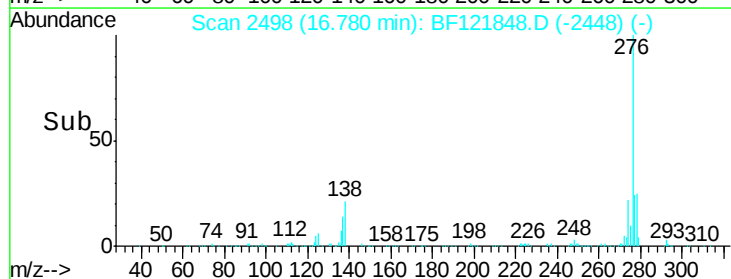
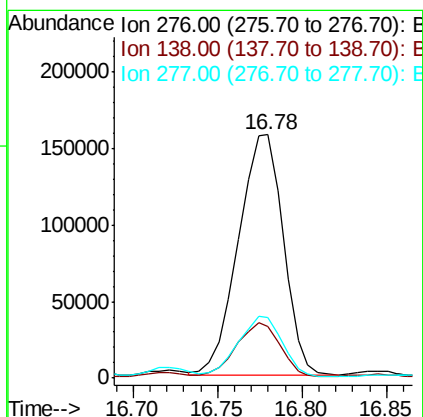
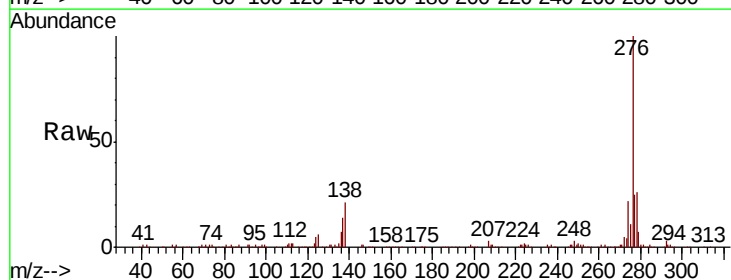
Instrument :
BNA_F
ClientSampleId :
B-18(5-7)DL

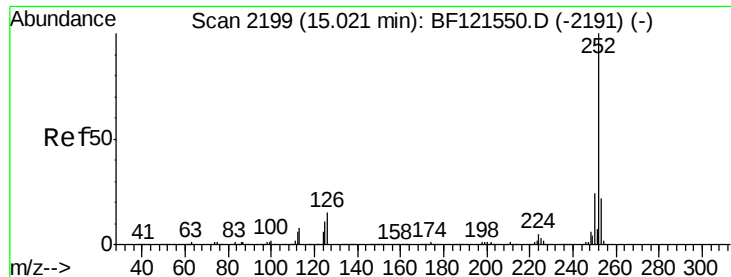
Tot Ion:264 Resp: 264978
Ion Ratio Lower Upper
264 100
260 24.7 18.7 28.1
265 22.5 17.3 25.9



#87
Indeno(1,2,3-cd)pyrene
Concen: 16.768 ng
RT: 16.78 min Scan# 2498
Delta R.T. -0.01 min
Lab File: BF121848.D
Acq: 6 Oct 2020 12:51

Tgt Ion:276 Resp: 289359
Ion Ratio Lower Upper
276 100
138 22.2 19.9 29.9
277 24.6 20.4 30.6

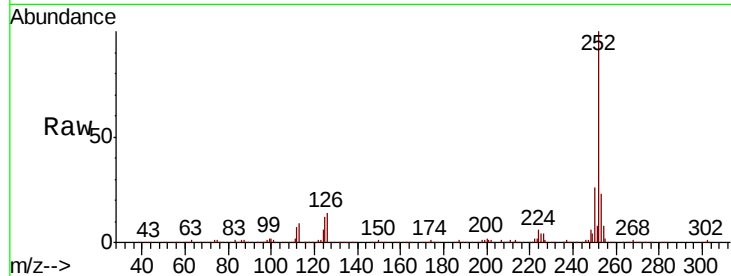




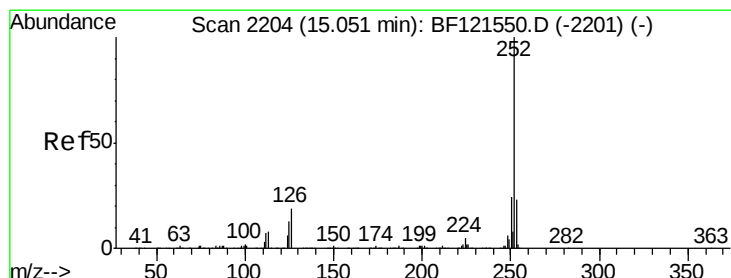
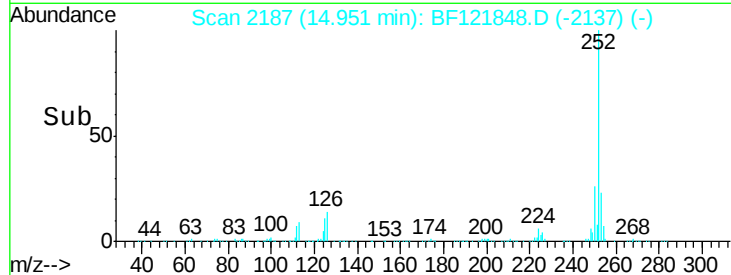
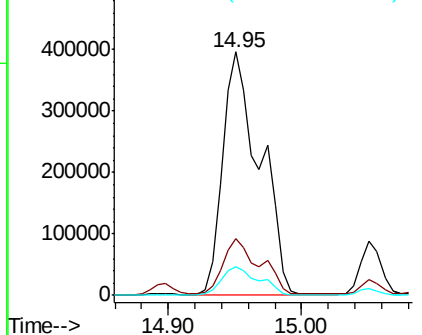
#88
Benzo(b)fluoranthene
Concen: 43.386 ng
RT: 14.95 min Scan# 2187
Delta R.T. -0.01 min
Lab File: BF121848.D
Acq: 6 Oct 2020 12:51

Instrument :
BNA_F
ClientSampleId :
B-18(5-7)DL

Tot Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.2	27.2
125	11.6	8.0	12.0

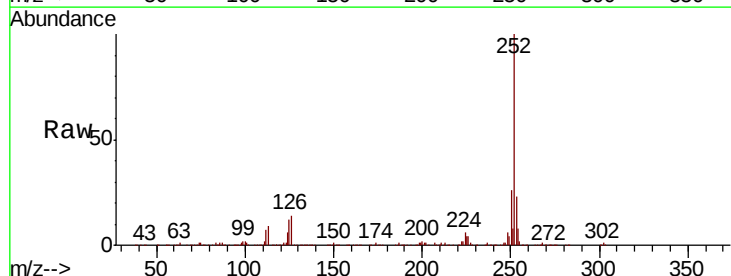


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

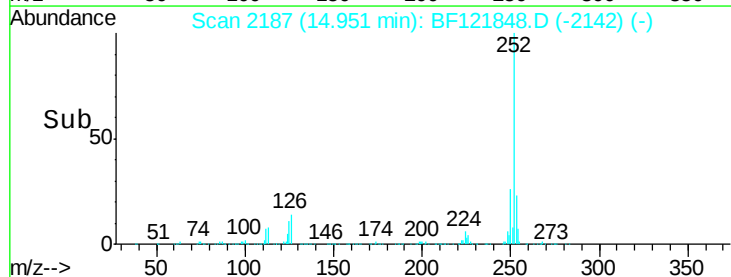
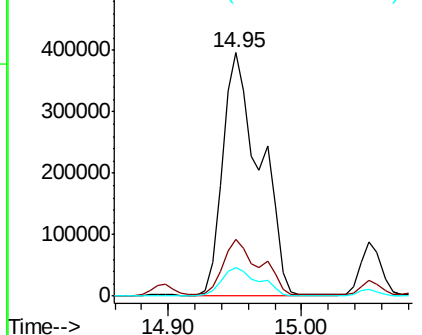


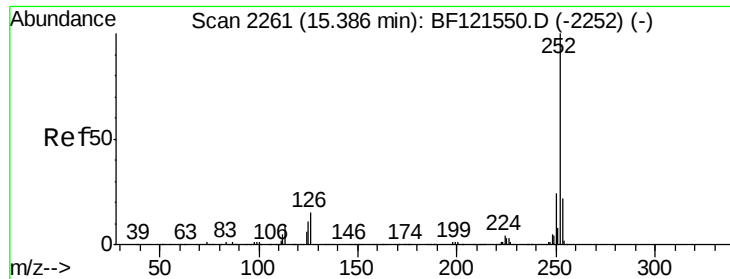
#89
Benzo(k)fluoranthene
Concen: 47.378 ng
RT: 14.95 min Scan# 2187
Delta R.T. -0.04 min
Lab File: BF121848.D
Acq: 6 Oct 2020 12:51

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.8	26.6
125	11.6	7.7	11.5



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E





#90

Benzo(a)pyrene

Concen: 27.941 ng

RT: 15.30 min Scan# 2247

Delta R.T. -0.01 min

Lab File: BF121848.D

Acq: 6 Oct 2020 12:51

Instrument :

BNA_F

ClientSampleId :

B-18(5-7)DL

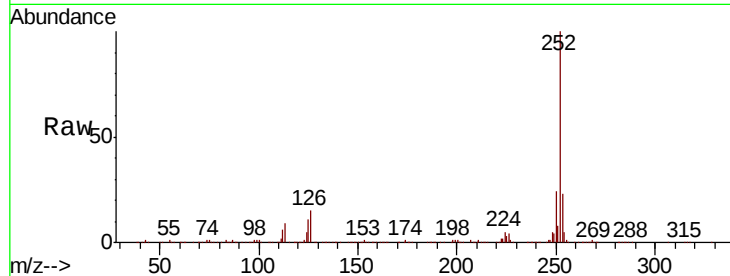
Tot Ion:252 Resp: 420727

Ion Ratio Lower Upper

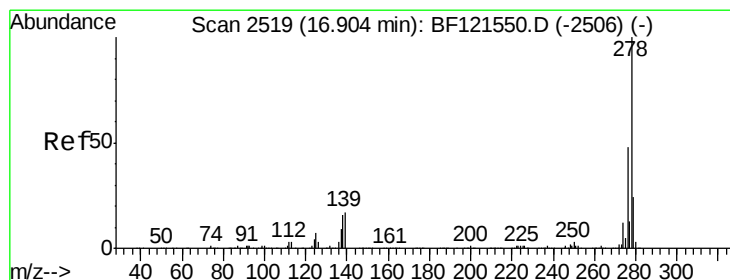
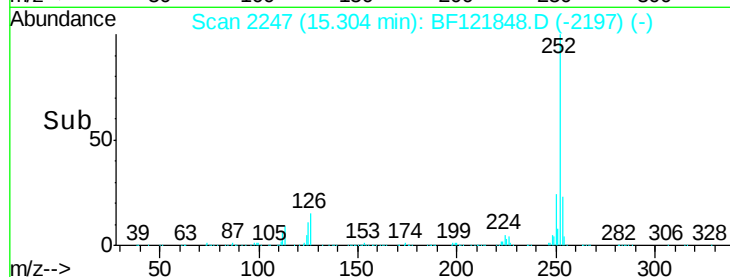
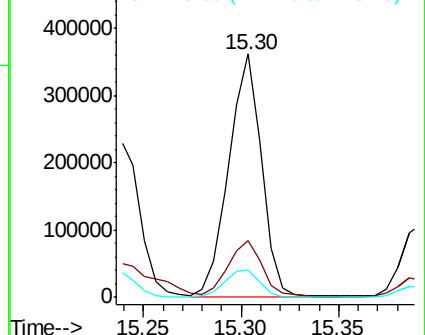
252 100

253 23.4 17.3 25.9

125 11.1 8.6 13.0



Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91

Dibenzo(a,h)anthracene

Concen: 4.687 ng

RT: 16.94 min Scan# 2525

Delta R.T. 0.14 min

Lab File: BF121848.D

Acq: 6 Oct 2020 12:51

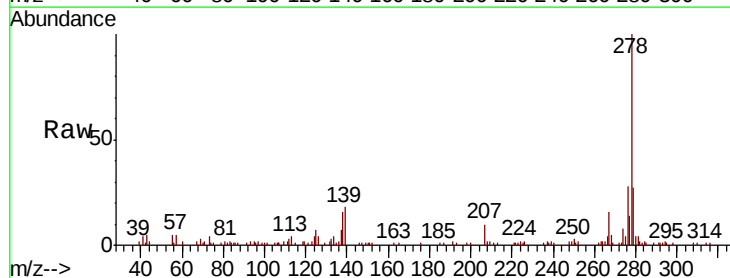
Tgt Ion:278 Resp: 67329

Ion Ratio Lower Upper

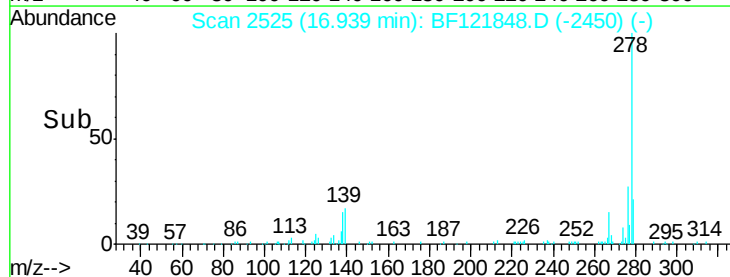
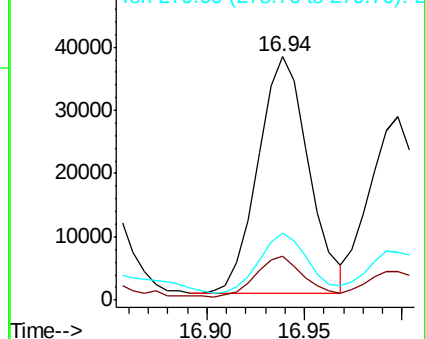
278 100

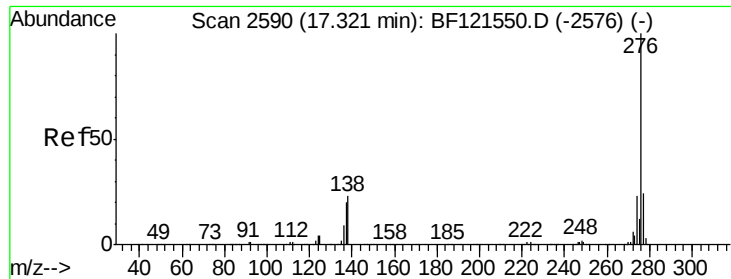
139 18.2 13.0 19.4

279 27.4 19.0 28.4



Abundance Ion 278.00 (277.70 to 278.70): E
Ion 139.00 (138.70 to 139.70): E
Ion 279.00 (278.70 to 279.70): E

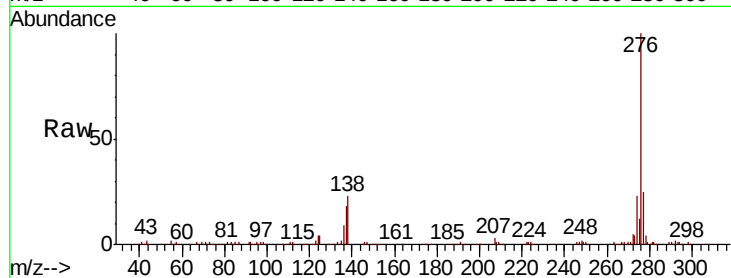




#92
 Benzo(a,h,i)perylene
 Concen: 19.230 ng
 RT: 17.20 min Scan# 2570
 Delta R.T. -0.01 min
 Lab File: BF121848.D
 Acq: 6 Oct 2020 12:51

Instrument :
 BNA_F
 ClientSampleId :
 B-18(5-7)DL

Tot Ion	Ion	Ratio	Lower	Upper
276	100			
277	24.9	19.4	29.2	
138	22.5	17.8	26.6	



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

