

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101015\
 Data File : BF082210.D
 Acq On : 11 Oct 2015 8:09
 Operator : UM/IZ
 Sample : G3921-07DL 10X
 Misc :
 ALS Vial : 43 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LS-COMP(1-8)DL

Quant Time: Oct 12 03:06:52 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 12 02:59:50 2015
 Response via : Initial Calibration

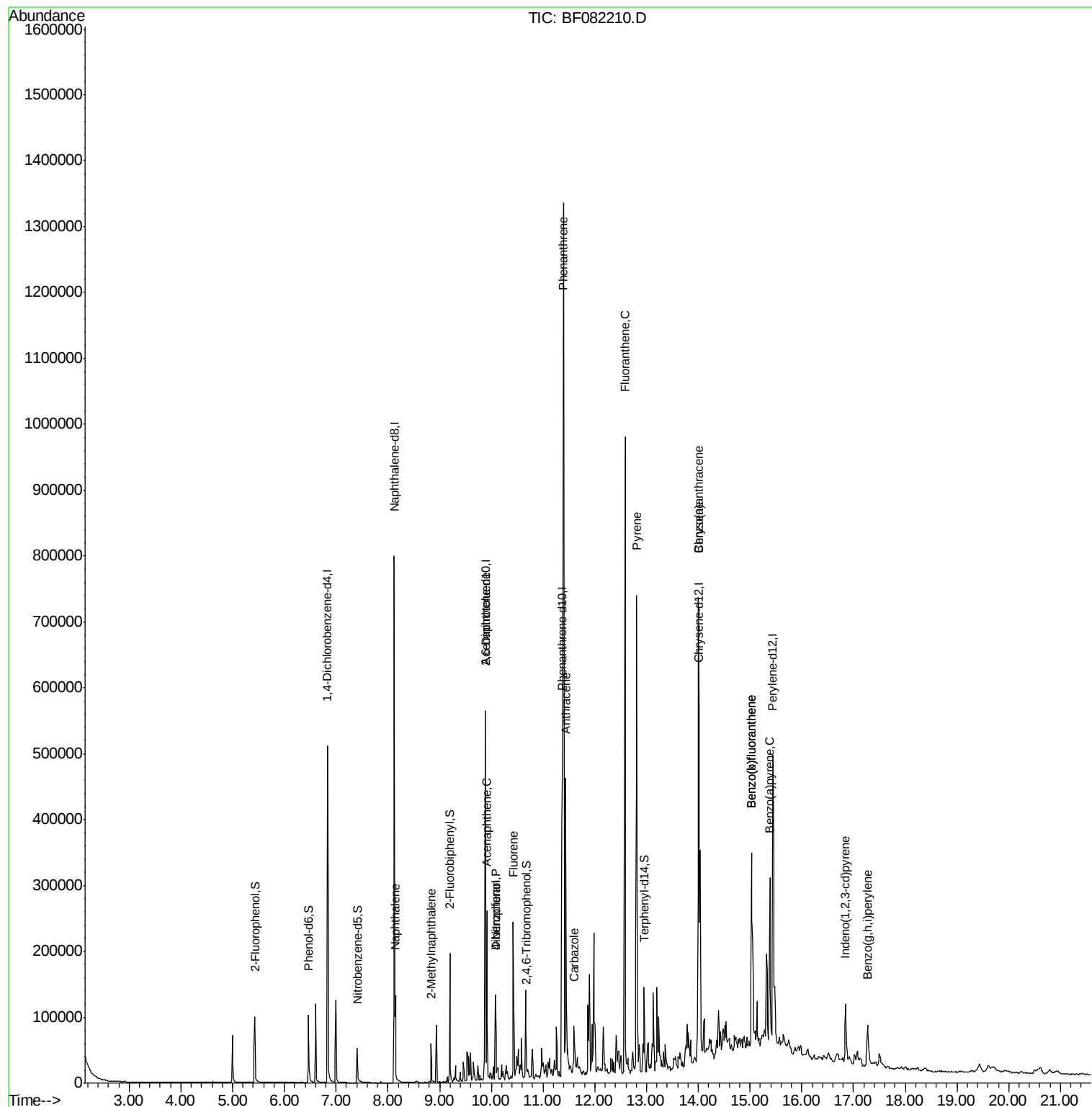
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.83	152	91832	20.00	ng	0.00
21) Naphthalene-d8	8.13	136	368952	20.00	ng	0.00
38) Acenaphthene-d10	9.89	164	167904	20.00	ng	0.00
63) Phenanthrene-d10	11.37	188	281240	20.00	ng	0.00
75) Chrysene-d12	14.01	240	234527	20.00	ng	0.00
86) Perylene-d12	15.44	264	225964	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.43	112	40767	8.96	ng	0.00
7) Phenol-d6	6.47	99	52945	8.94	ng	-0.01
23) Nitrobenzene-d5	7.41	82	28446	5.18	ng	-0.01
41) 2,4,6-Tribromophenol	10.67	330	10078	6.40	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	63933	6.31	ng	-0.01
78) Terphenyl-d14	12.95	244	43017	4.86	ng	-0.01
Target Compounds						Qvalue
31) Naphthalene	8.15	128	59323	3.71	ng	99
37) 2-Methylnaphthalene	8.83	142	22781	2.05	ng	97
50) 2,6-Dinitrotoluene	9.89	165	21693	8.70	ng	# 32
51) Acenaphthene	9.91	154	58907	6.25	ng	99
54) Dibenzofuran	10.08	168	68009	5.26	ng	97
55) 4-Nitrophenol	10.08	139	23433	16.85	ng	# 13
57) Fluorene	10.42	166	78570	7.39	ng	98
70) Phenanthrene	11.40	178	567299	41.15	ng	100
71) Anthracene	11.44	178	208048	14.65	ng	99
72) Carbazole	11.60	167	44013	3.40	ng	97
74) Fluoranthene	12.58	202	476819	32.20	ng	98
77) Pyrene	12.81	202	385194	27.68	ng	98
80) Benzo(a)anthracene	14.00	228	223842	18.34	ng	99
82) Chrysene	14.00	228	223842	17.41	ng	97
85) Indeno(1,2,3-cd)pyrene	16.85	276	64920	6.35	ng	96
87) Benzo(b)fluoranthene	15.03	252	235456	17.13	ng	98
88) Benzo(k)fluoranthene	15.03	252	235456	20.38	ng	98
89) Benzo(a)pyrene	15.38	252	133584	11.31	ng	98
91) Benzo(a,h,i)perylene	17.27	276	63701	6.77	ng	98

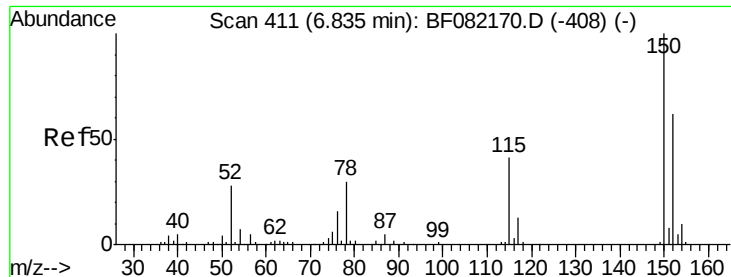
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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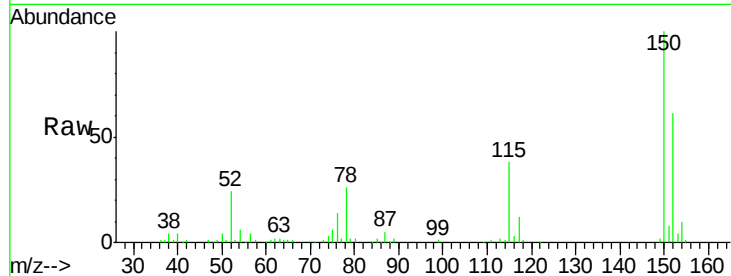


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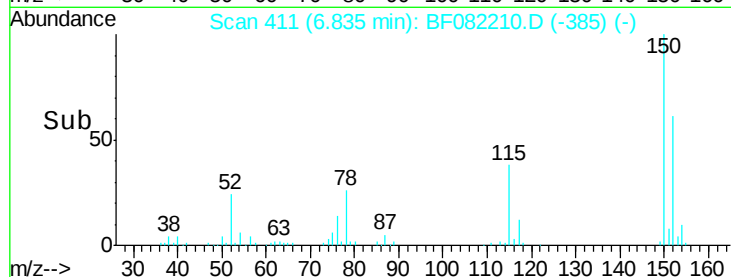
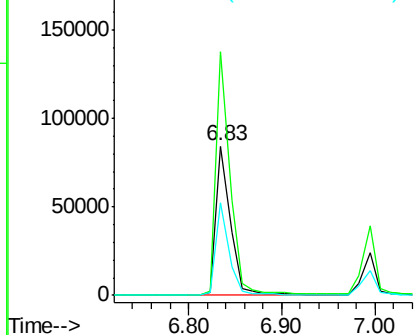
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.83 min Scan# 411
Delta R.T. 0.00 min
Lab File: BF082210.D
Acq: 11 Oct 2015 8:09

Instrument :
BNA_F
ClientSampleId :
LS-COMP(1-8)DL

Tot Ion:152 Resp: 91832
Ion Ratio Lower Upper
152 100
150 162.9 129.0 193.4
115 62.2 52.1 78.1



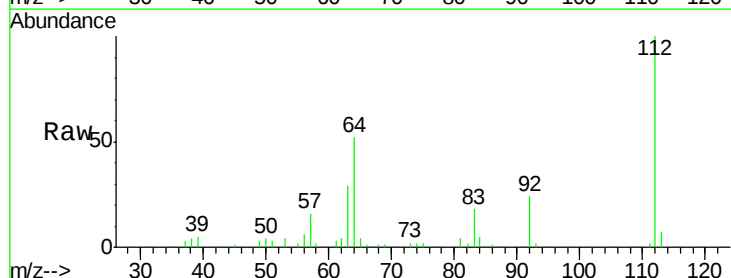
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



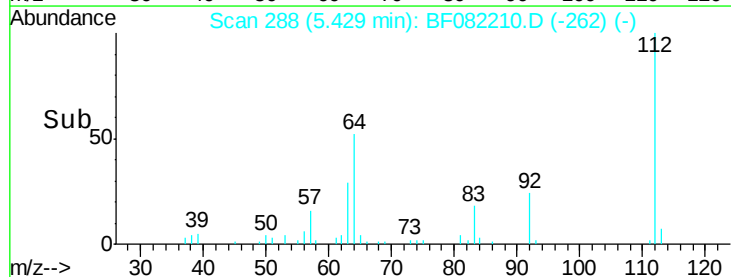
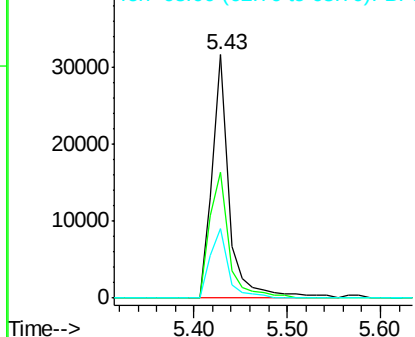
#5

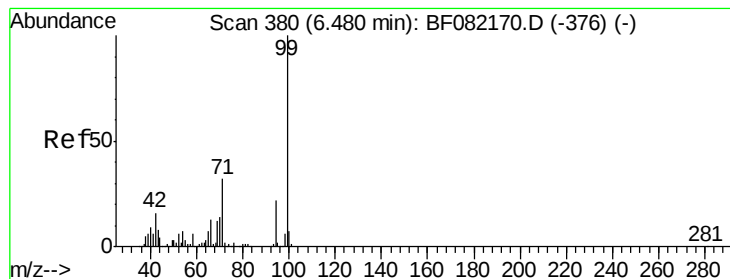
2-Fluorophenol
Concen: 8.96 ng
RT: 5.43 min Scan# 288
Delta R.T. 0.00 min
Lab File: BF082210.D
Acq: 11 Oct 2015 8:09

Tgt Ion:112 Resp: 40767
Ion Ratio Lower Upper
112 100
64 51.9 48.6 73.0
63 28.8 25.1 37.7



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BF0
Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 8.94 ng

RT: 6.47 min Scan# 379

Delta R.T. -0.01 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

Instrument :

BNA_F

ClientSampleId :

LS-COMP(1-8)DL

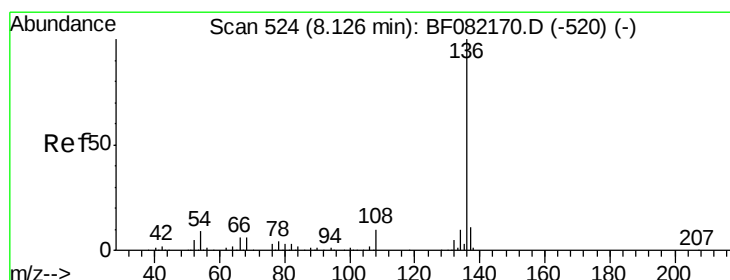
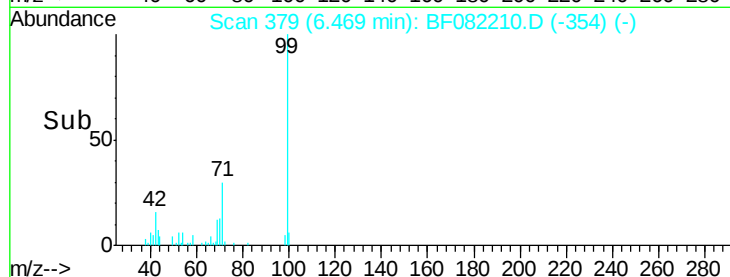
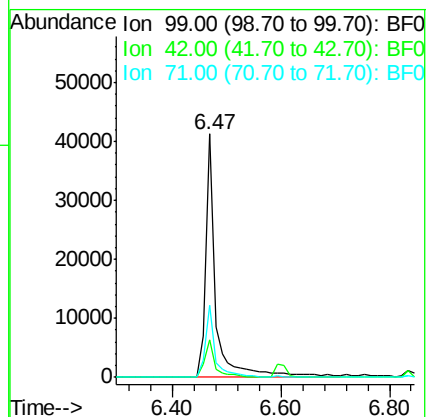
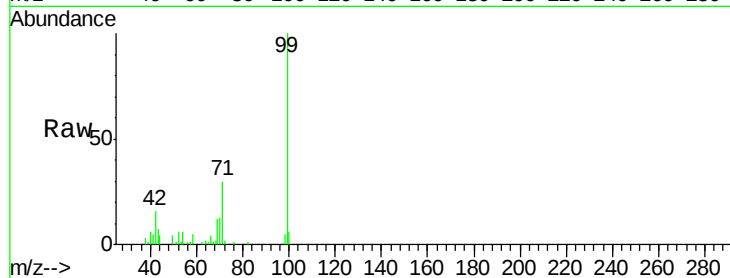
Tot Ion: 99 Resp: 52945

Ion Ratio Lower Upper

99 100

42 15.6 13.2 19.8

71 29.8 25.6 38.4



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.13 min Scan# 524

Delta R.T. 0.00 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

Tgt Ion: 136 Resp: 368952

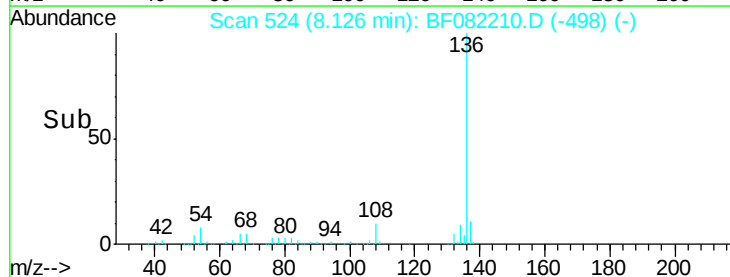
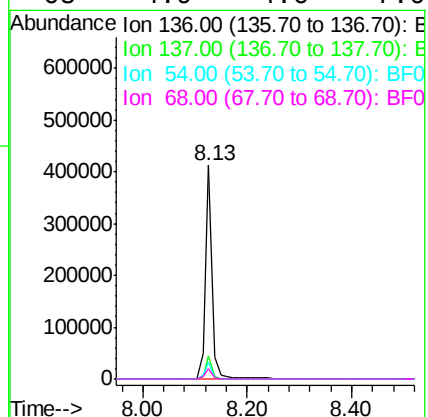
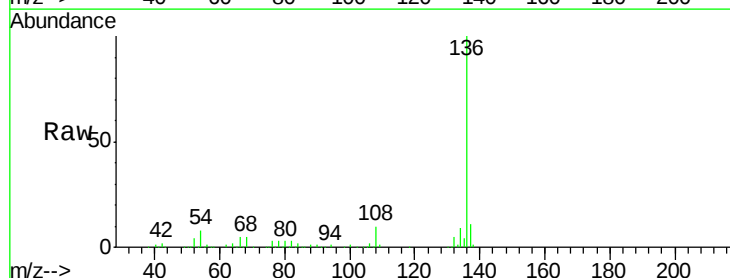
Ion Ratio Lower Upper

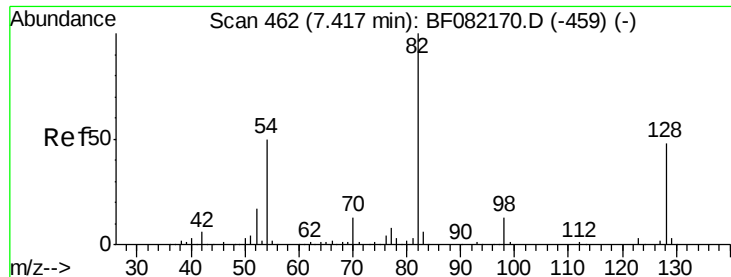
136 100

137 10.7 9.0 13.6

54 7.7 7.5 11.3

68 4.9 4.6 7.0

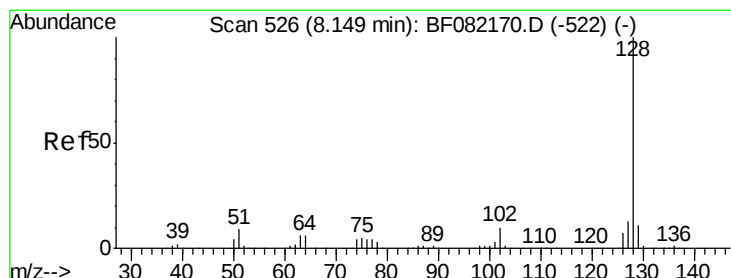
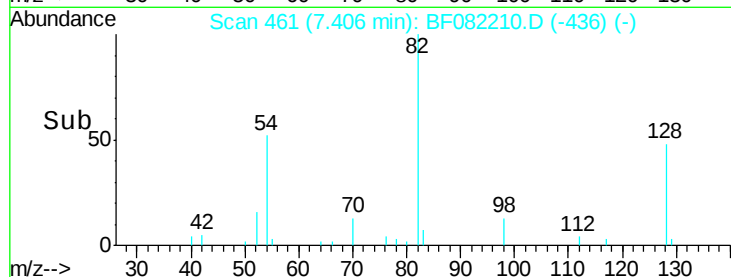
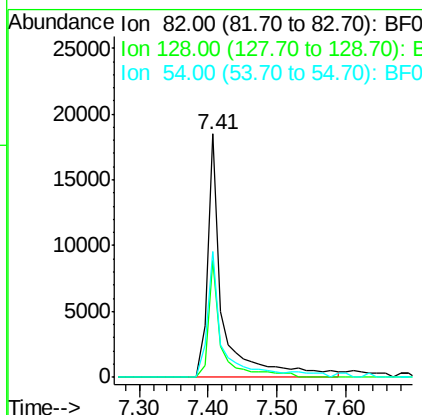
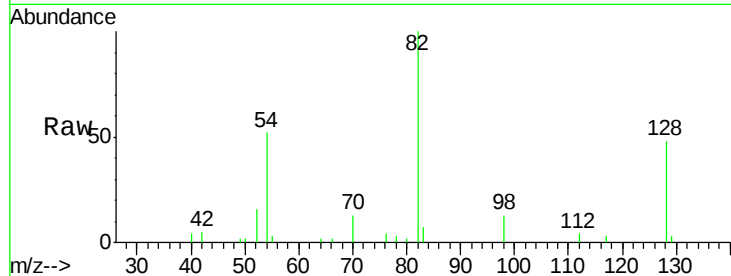




#23
 Nitrobenzene-d5
 Concen: 5.18 ng
 RT: 7.41 min Scan# 461
 Delta R.T. -0.01 min
 Lab File: BF082210.D
 Acq: 11 Oct 2015 8:09

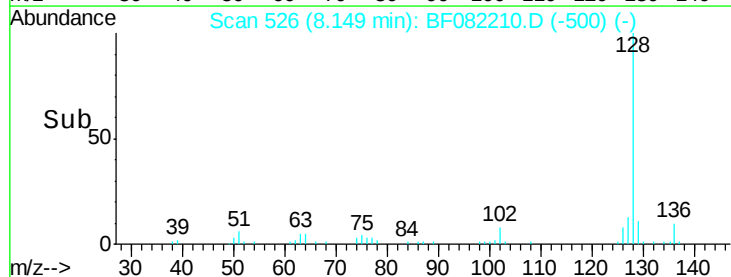
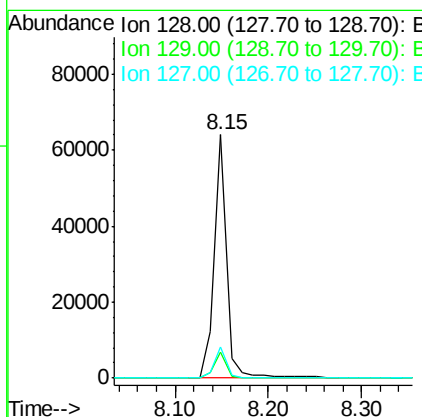
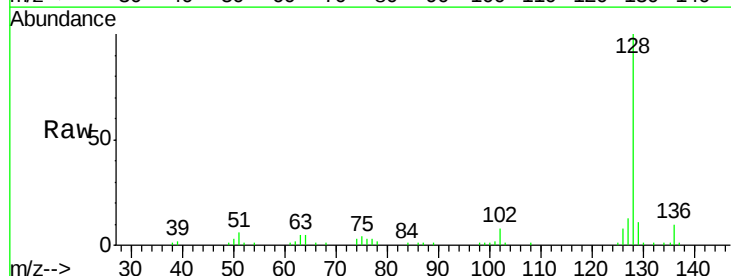
Instrument :
 BNA_F
 ClientSampleId :
 LS-COMP(1-8)DL

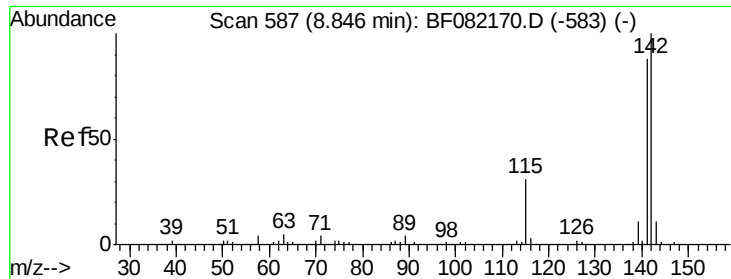
Tot Ion	82	Resp	28446
Ion Ratio	Lower	Upper	
82	100		
128	48.1	38.7	58.1
54	51.8	40.1	60.1



#31
 Naphthalene
 Concen: 3.71 ng
 RT: 8.15 min Scan# 526
 Delta R.T. 0.00 min
 Lab File: BF082210.D
 Acq: 11 Oct 2015 8:09

Tgt Ion	128	Resp	59323
Ion Ratio	Lower	Upper	
128	100		
129	10.8	9.1	13.7
127	12.9	10.7	16.1

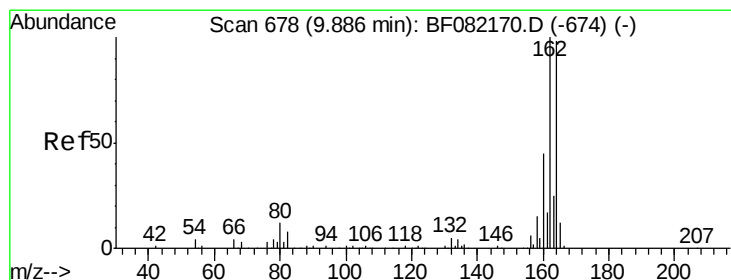
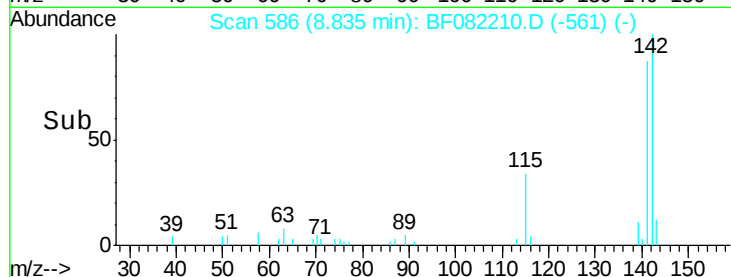
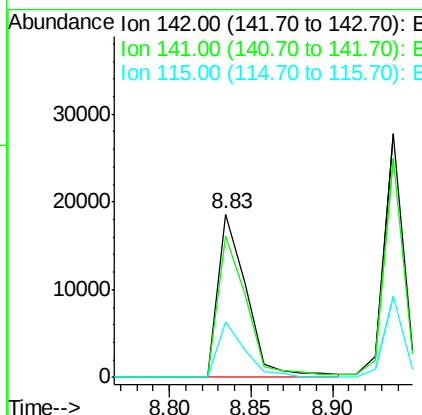
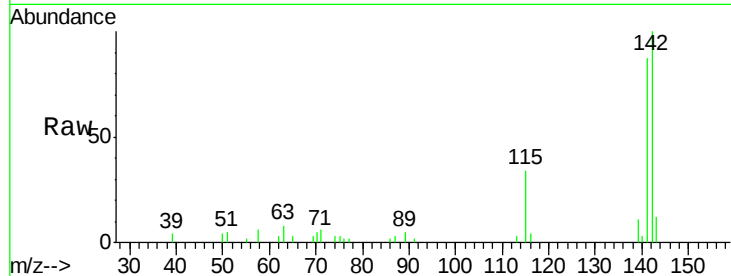




#37
2-Methylnaphthalene
Concen: 2.05 ng
RT: 8.83 min Scan# 586
Delta R.T. -0.01 min
Lab File: BF082210.D
Acq: 11 Oct 2015 8:09

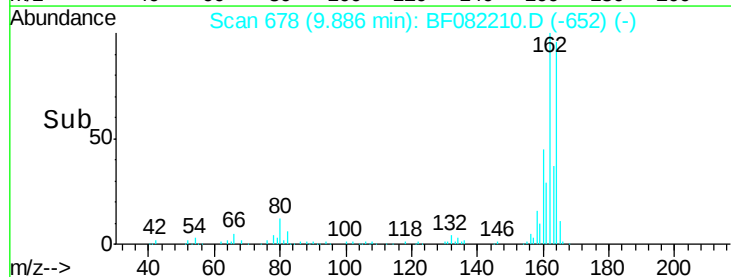
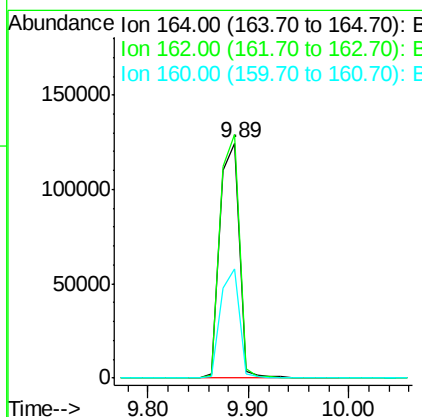
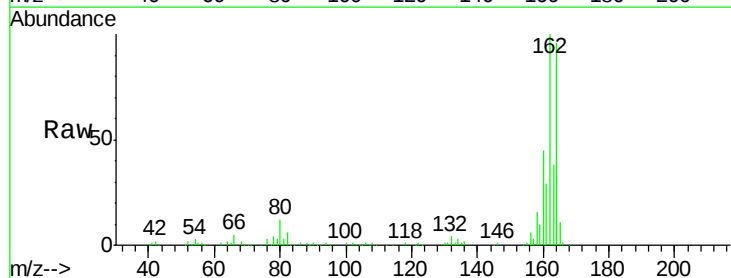
Instrument :
BNA_F
ClientSampleId :
LS-COMP(1-8)DL

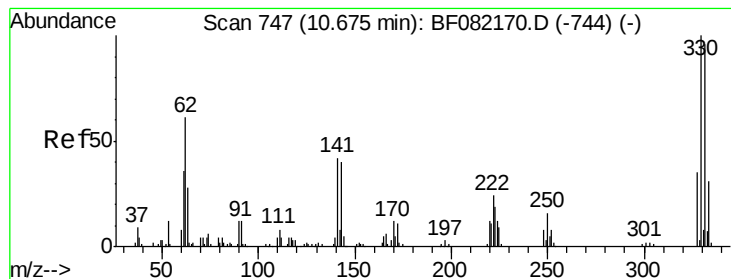
Tot Ion:142 Resp: 22781
Ion Ratio Lower Upper
142 100
141 86.7 70.4 105.6
115 34.2 24.6 37.0



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.89 min Scan# 678
Delta R.T. 0.00 min
Lab File: BF082210.D
Acq: 11 Oct 2015 8:09

Tgt Ion:164 Resp: 167904
Ion Ratio Lower Upper
164 100
162 103.6 81.6 122.4
160 46.7 36.4 54.6





#41

2,4,6-Tribromophenol

Concen: 6.40 ng

RT: 10.67 min Scan# 747

Delta R.T. 0.00 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

Instrument :

BNA_F

ClientSampleId :

LS-COMP(1-8)DL

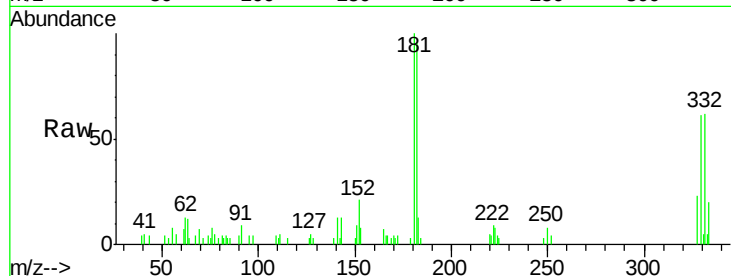
Tot Ion:330 Resp: 10078

Ion Ratio Lower Upper

330 100

332 94.1 77.1 115.7

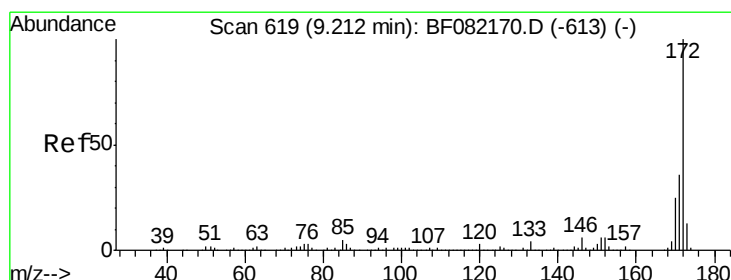
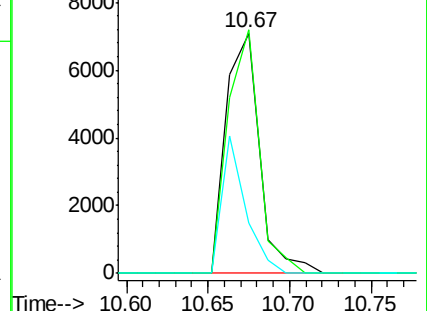
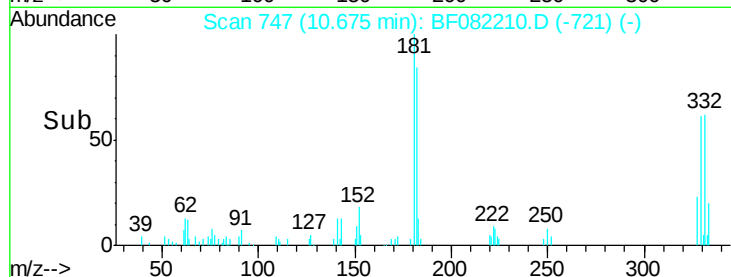
141 40.6 29.8 44.8



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



#44

2-Fluorobiphenyl

Concen: 6.31 ng

RT: 9.20 min Scan# 618

Delta R.T. -0.01 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

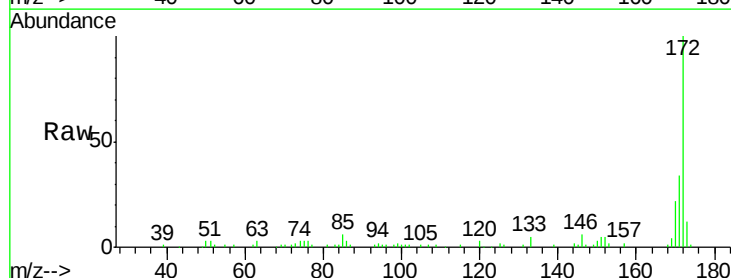
Tgt Ion:172 Resp: 63933

Ion Ratio Lower Upper

172 100

171 34.1 28.6 42.8

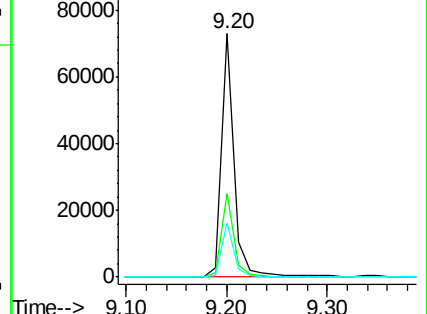
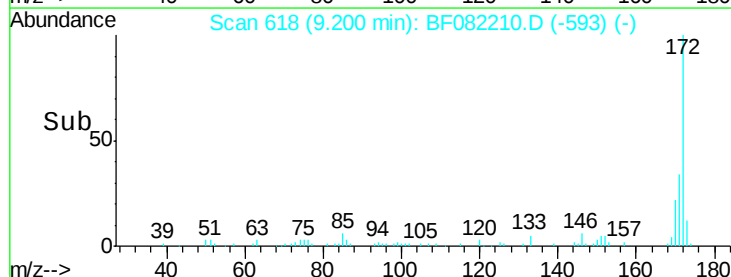
170 22.3 19.7 29.5

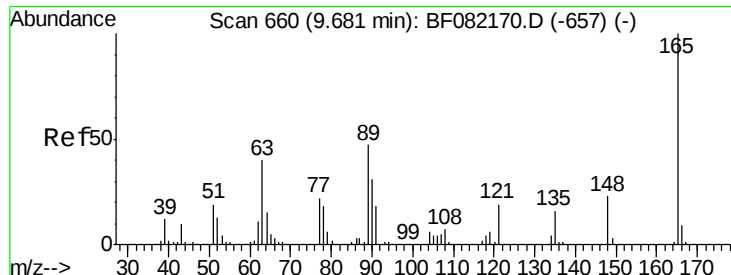


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E

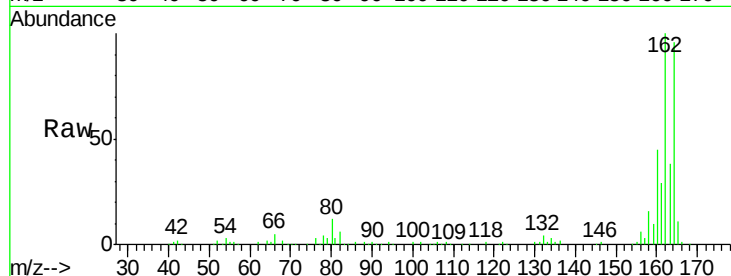




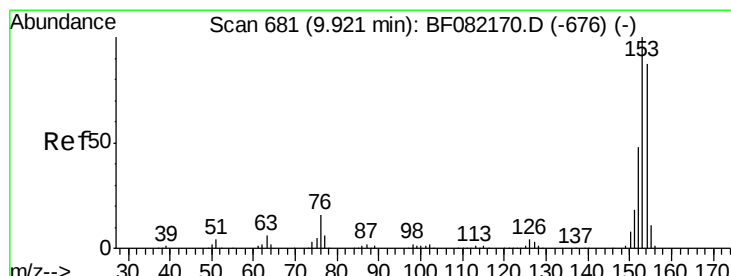
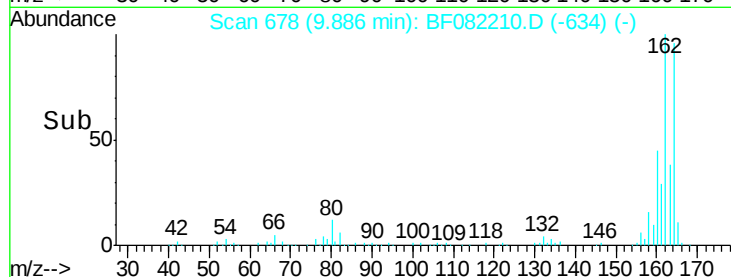
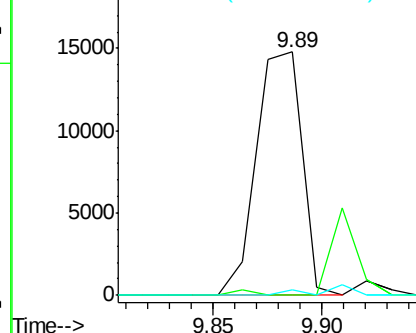
#50
 2,6-Dinitrotoluene
 Concen: 8.70 ng
 RT: 9.89 min Scan# 678
 Delta R.T. 0.21 min
 Lab File: BF082210.D
 Acq: 11 Oct 2015 8:09

Instrument :
 BNA_F
 ClientSampleId :
 LS-COMP(1-8)DL

Tot Ion	Ratio	Lower	Upper
165	100		
63	0.0	36.7	55.1#
89	2.0	37.8	56.6#

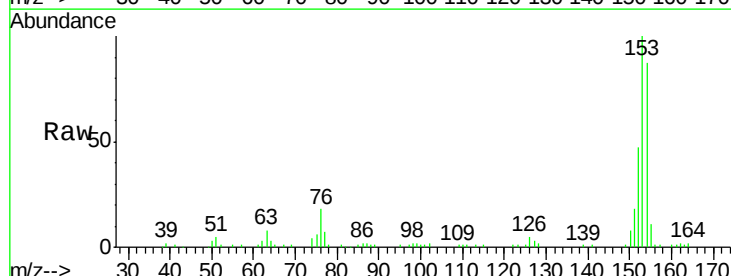


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0

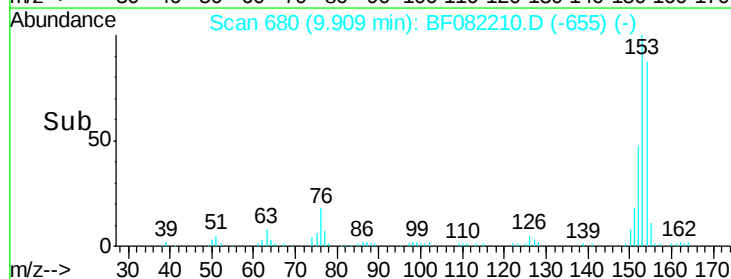
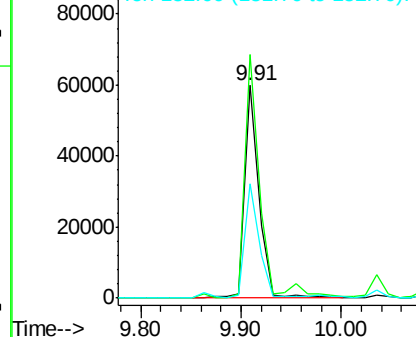


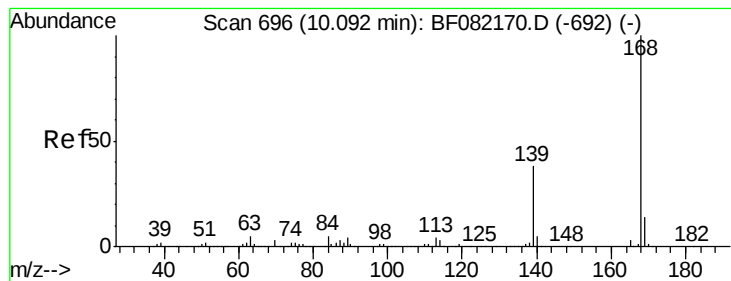
#51
 Acenaphthene
 Concen: 6.25 ng
 RT: 9.91 min Scan# 680
 Delta R.T. -0.01 min
 Lab File: BF082210.D
 Acq: 11 Oct 2015 8:09

Tgt Ion	Ratio	Lower	Upper
154	100		
153	114.5	91.4	137.2
152	54.0	44.3	66.5



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





#54

Dibenzofuran

Concen: 5.26 ng

RT: 10.08 min Scan# 695

Delta R.T. -0.01 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

Instrument :

BNA_F

ClientSampleId :

LS-COMP(1-8)DL

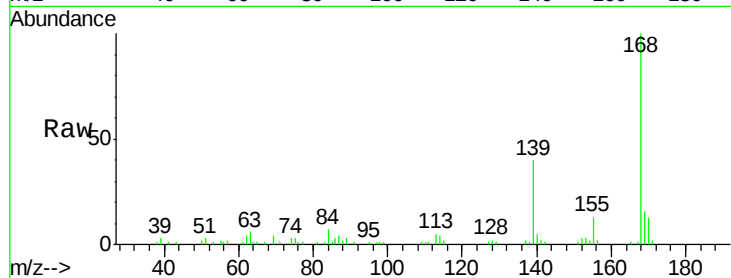
Tot Ion:168 Resp: 68009

Ion Ratio Lower Upper

168 100

139 40.2 31.0 46.6

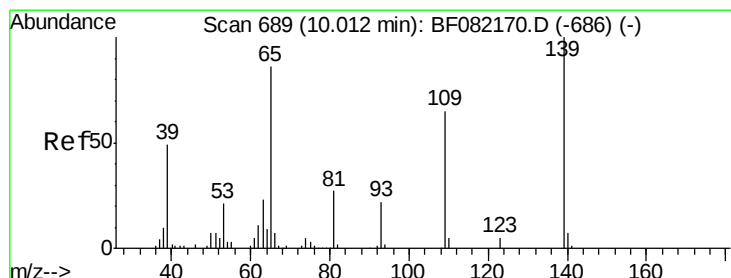
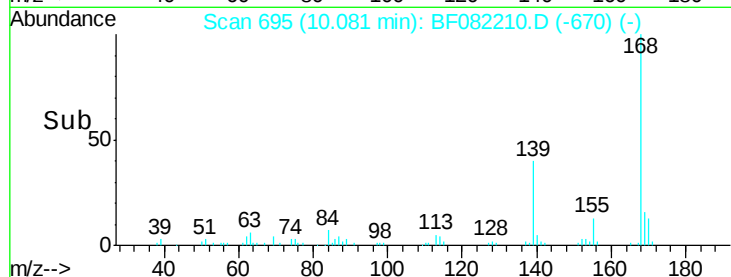
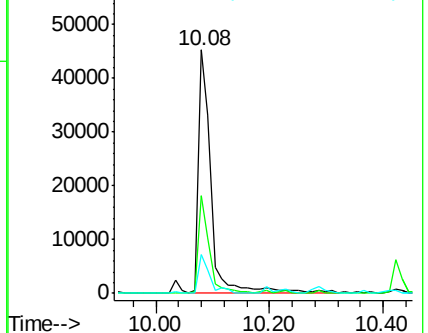
169 16.0 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 169.00 (168.70 to 169.70): E



#55

4-Nitrophenol

Concen: 16.85 ng

RT: 10.08 min Scan# 695

Delta R.T. 0.07 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

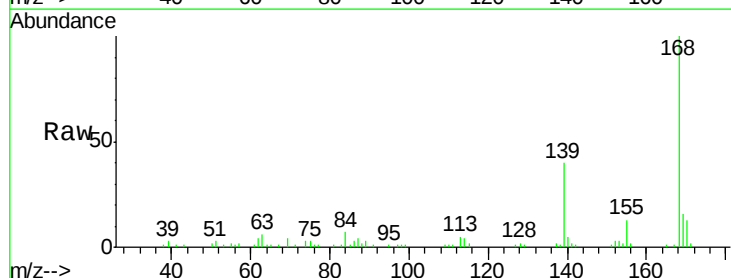
Tgt Ion:139 Resp: 23433

Ion Ratio Lower Upper

139 100

109 2.2 44.8 84.8#

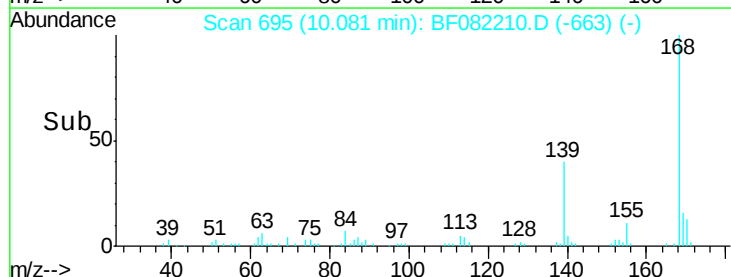
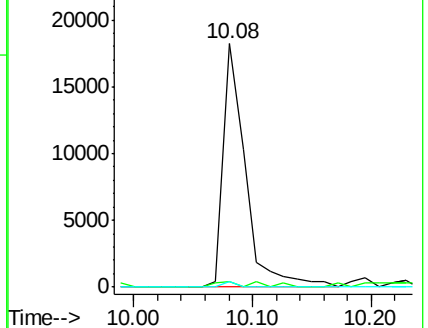
65 2.4 67.7 107.7#

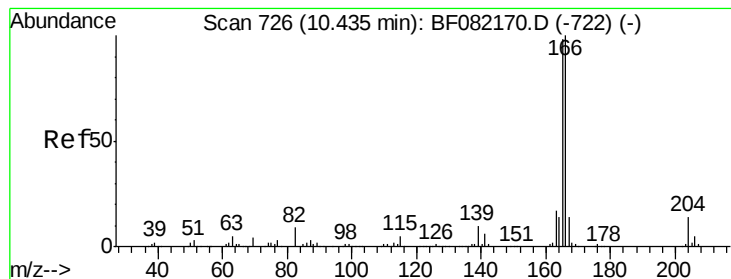


Abundance Ion 139.00 (138.70 to 139.70): E

Ion 109.00 (108.70 to 109.70): E

Ion 65.00 (64.70 to 65.70): BF0





#57

Fluorene

Concen: 7.39 ng

RT: 10.42 min Scan# 725

Delta R.T. -0.01 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

Instrument :

BNA_F

ClientSampleId :

LS-COMP(1-8)DL

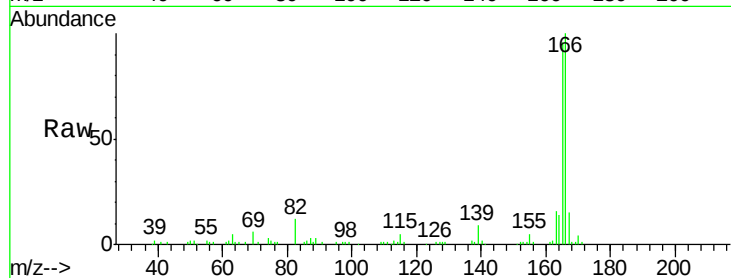
Tot Ion:166 Resp: 78570

Ion Ratio Lower Upper

166 100

165 96.5 78.3 117.5

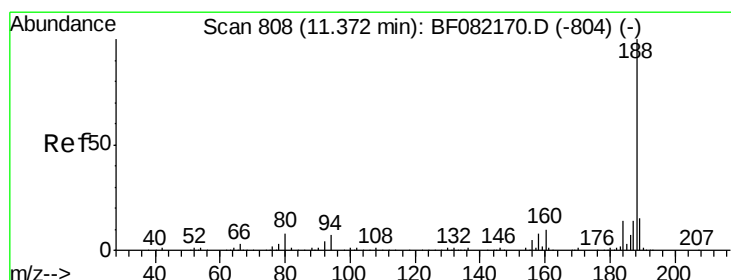
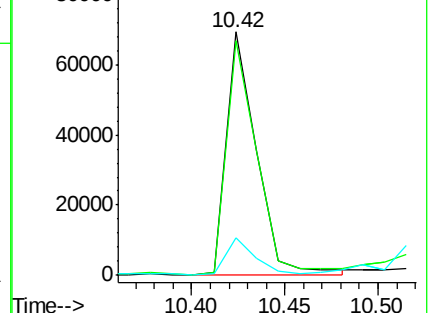
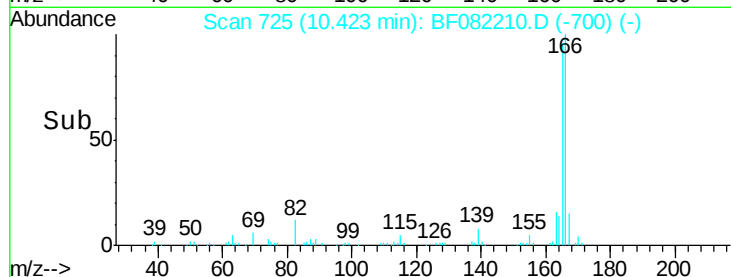
167 15.4 10.8 16.2



Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.37 min Scan# 808

Delta R.T. 0.00 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

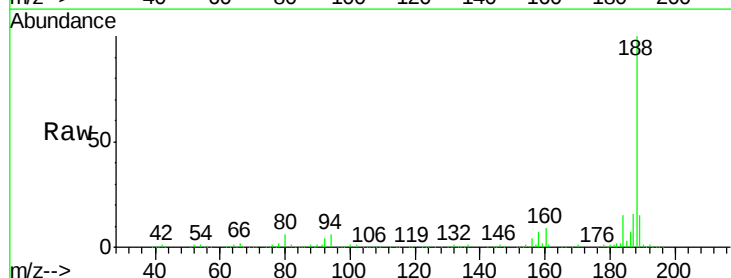
Tgt Ion:188 Resp: 281240

Ion Ratio Lower Upper

188 100

94 6.1 5.8 8.6

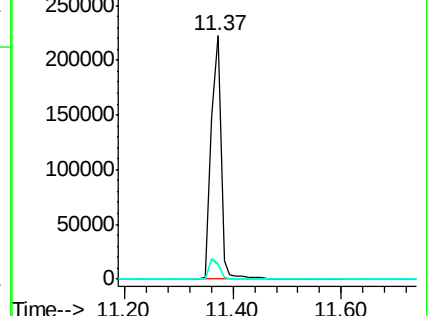
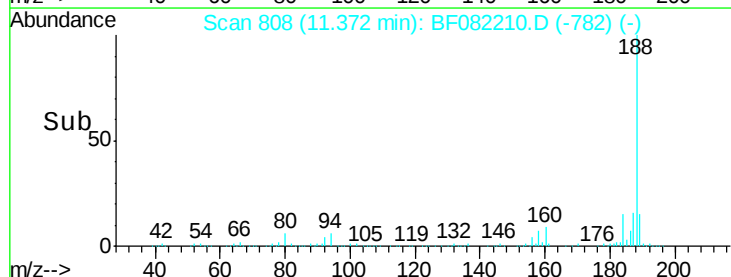
80 6.3 6.4 9.6#

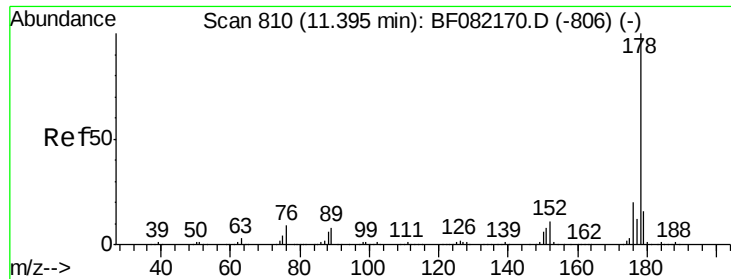


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#70

Phenanthrene

Concen: 41.15 ng

RT: 11.40 min Scan# 810

Delta R.T. 0.00 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

Instrument :

BNA_F

ClientSampleId :

LS-COMP(1-8)DL

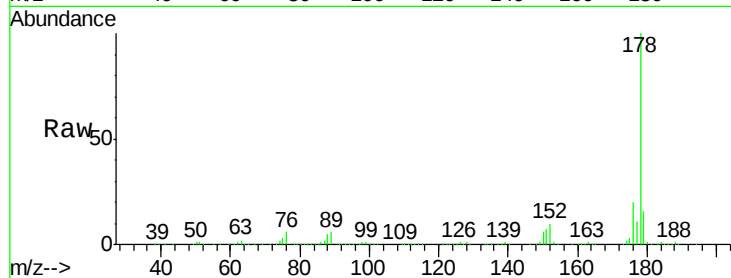
Tot Ion:178 Resp: 567299

Ion Ratio Lower Upper

178 100

176 20.0 16.0 24.0

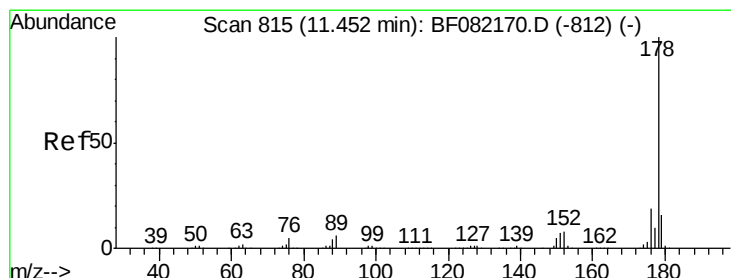
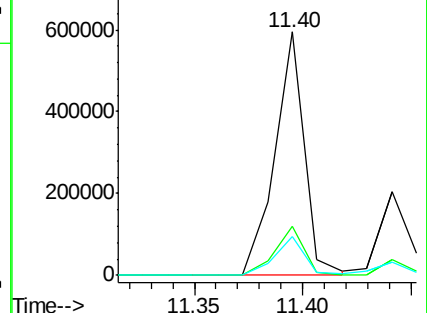
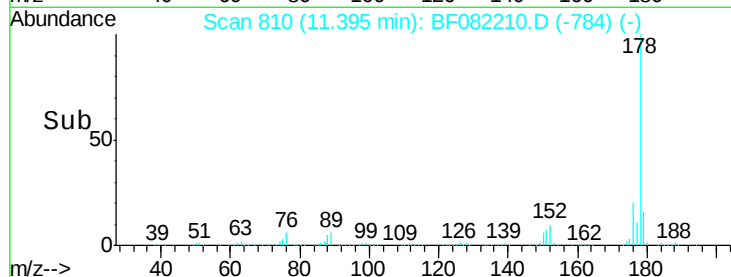
179 15.7 12.6 19.0



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



#71

Anthracene

Concen: 14.65 ng

RT: 11.44 min Scan# 814

Delta R.T. -0.01 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

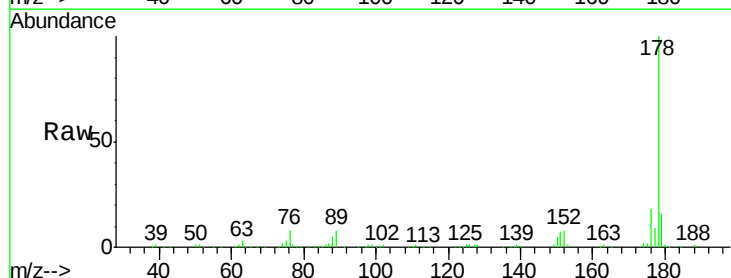
Tgt Ion:178 Resp: 208048

Ion Ratio Lower Upper

178 100

176 18.4 15.4 23.0

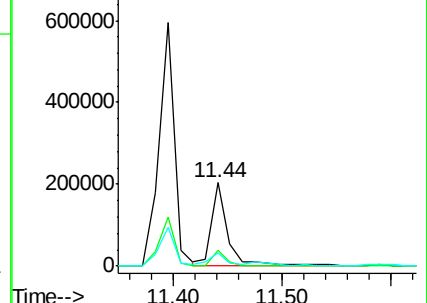
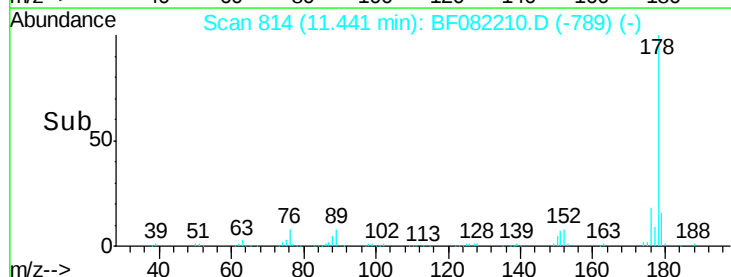
179 15.7 12.5 18.7

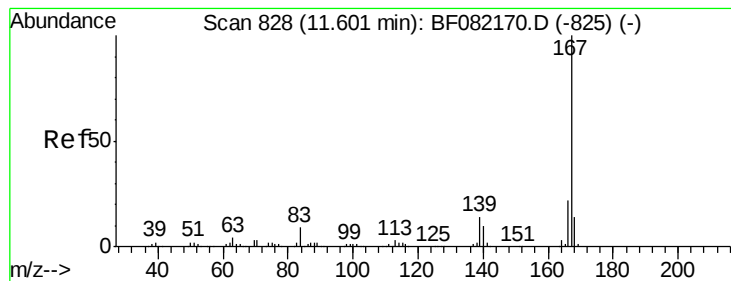


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#72

Carbazole

Concen: 3.40 ng

RT: 11.60 min Scan# 828

Delta R.T. 0.00 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

Instrument :

BNA_F

ClientSampleId :

LS-COMP(1-8)DL

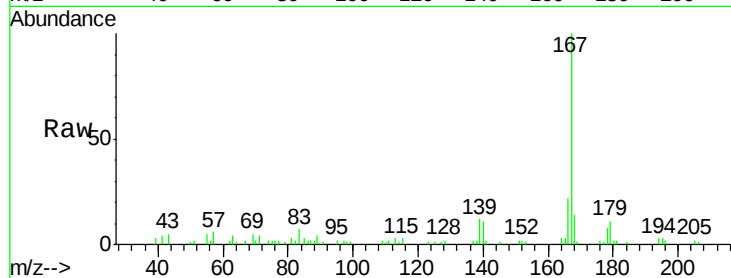
Tot Ion:167 Resp: 44013

Ion Ratio Lower Upper

167 100

166 22.3 17.3 25.9

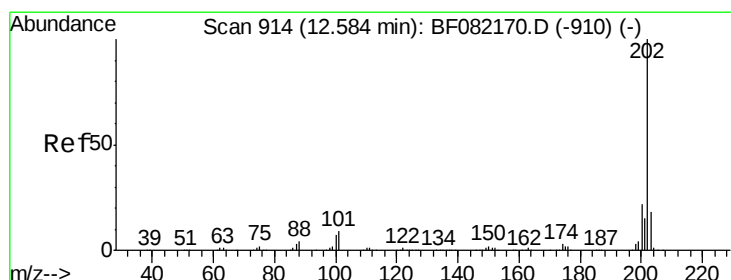
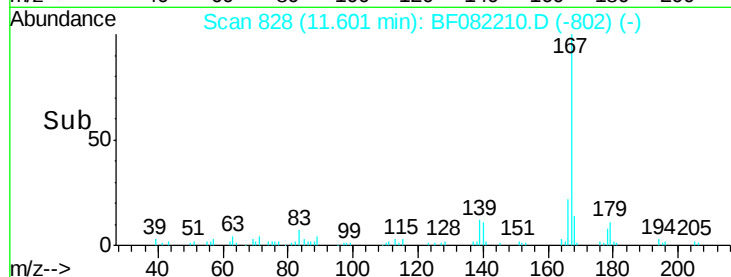
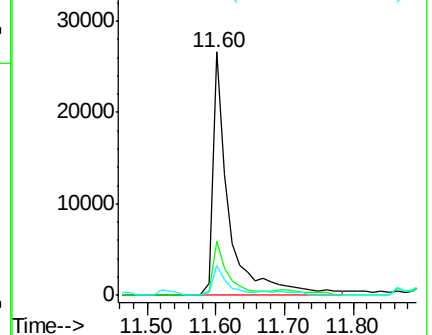
139 12.3 11.2 16.8



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



#74

Fluoranthene

Concen: 32.20 ng

RT: 12.58 min Scan# 914

Delta R.T. 0.00 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

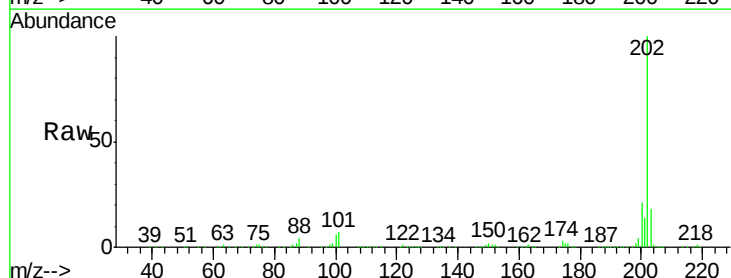
Tgt Ion:202 Resp: 476819

Ion Ratio Lower Upper

202 100

101 7.3 0.0 29.3

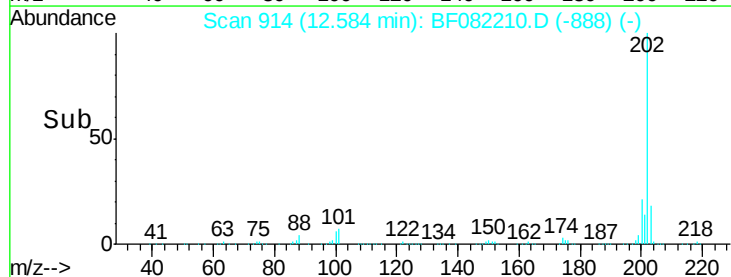
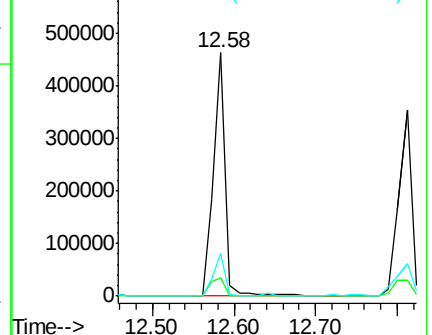
203 17.8 0.0 37.8

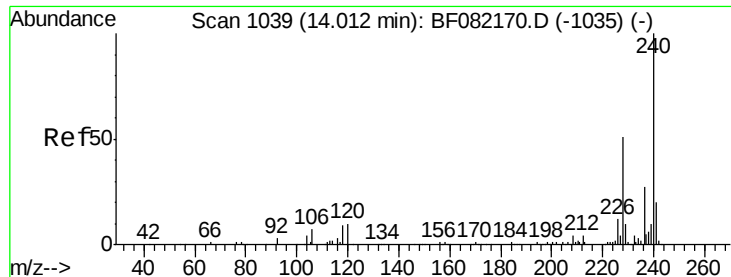


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.01 min Scan# 1039

Delta R.T. 0.00 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

Instrument :

BNA_F

ClientSampleId :

LS-COMP(1-8)DL

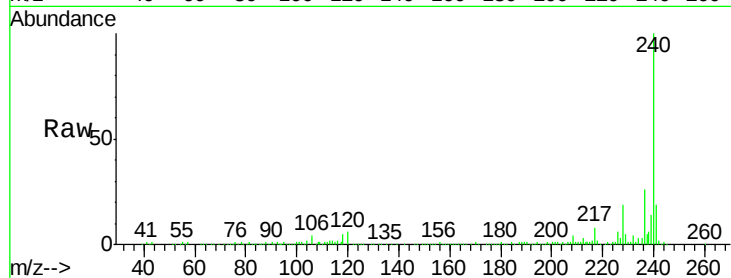
Tot Ion:240 Resp: 234527

Ion Ratio Lower Upper

240 100

120 6.0 8.1 12.1#

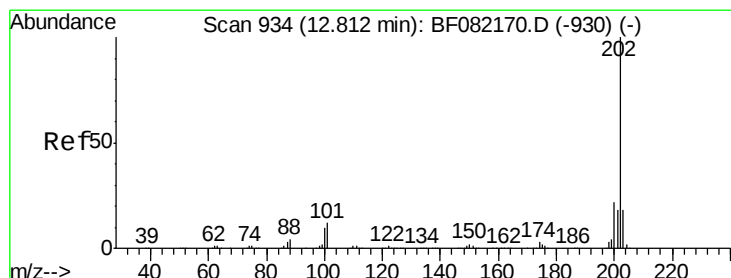
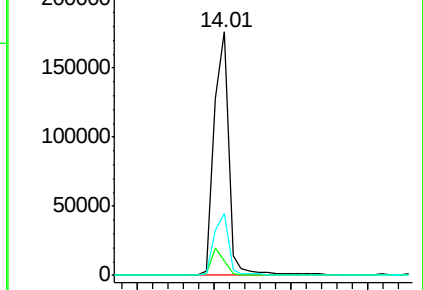
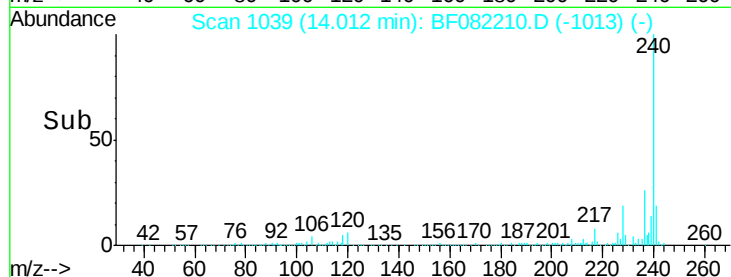
236 25.5 21.3 31.9



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 27.68 ng

RT: 12.81 min Scan# 934

Delta R.T. 0.00 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

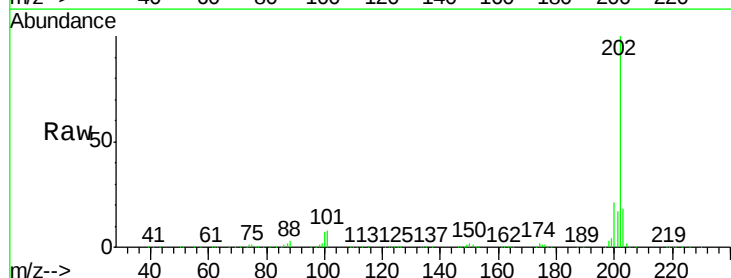
Tgt Ion:202 Resp: 385194

Ion Ratio Lower Upper

202 100

200 21.4 17.9 26.9

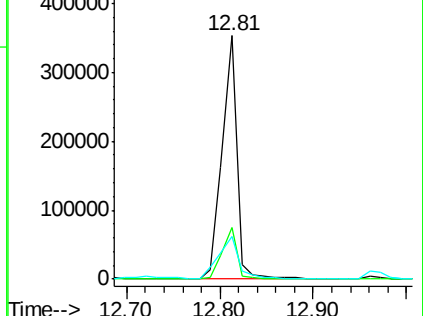
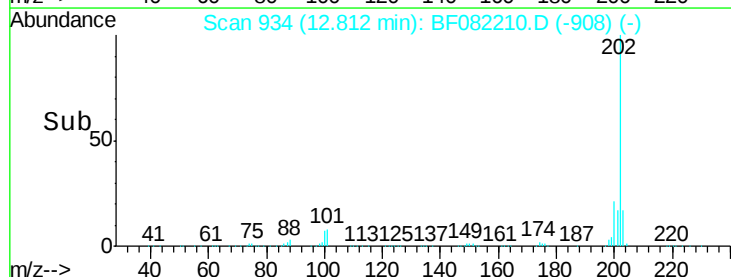
203 17.6 14.5 21.7

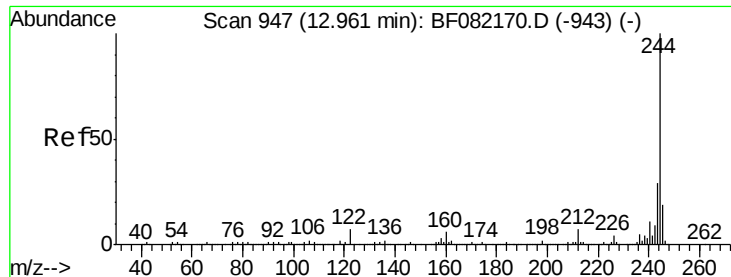


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 4.86 ng

RT: 12.95 min Scan# 946

Delta R.T. -0.01 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

Instrument :

BNA_F

ClientSampleId :

LS-COMP(1-8)DL

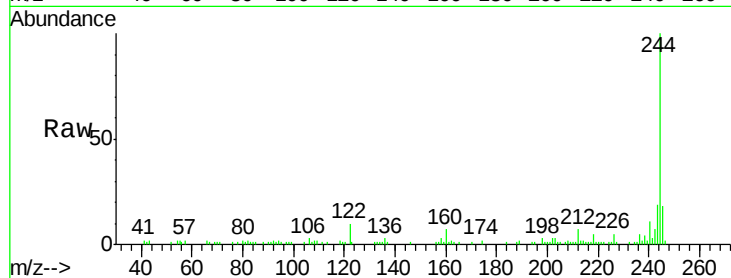
Tot Ion:244 Resp: 43017

Ion Ratio Lower Upper

244 100

212 6.7 5.8 8.6

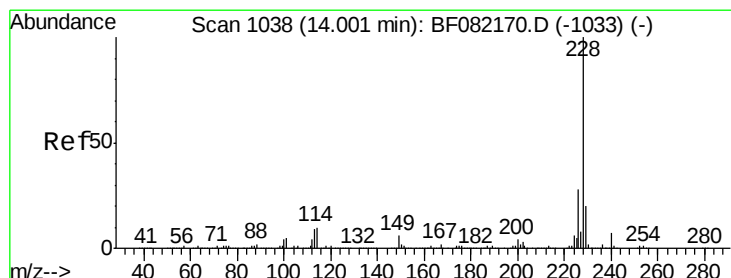
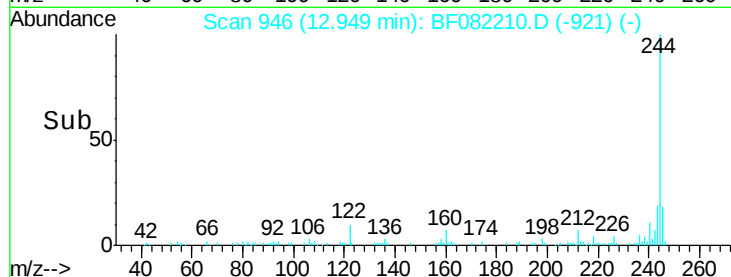
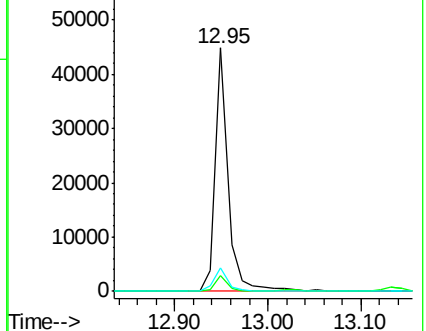
122 9.6 5.9 8.9#



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



#80

Benzo(a)anthracene

Concen: 18.34 ng

RT: 14.00 min Scan# 1038

Delta R.T. 0.00 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

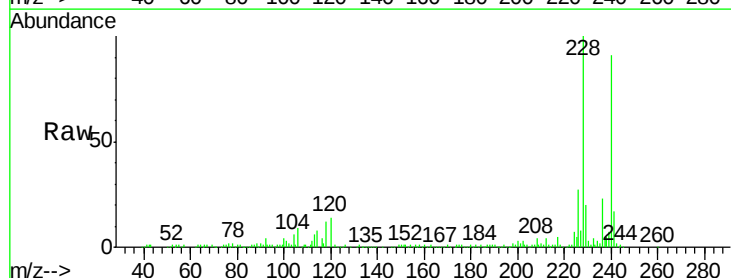
Tgt Ion:228 Resp: 223842

Ion Ratio Lower Upper

228 100

226 27.5 22.3 33.5

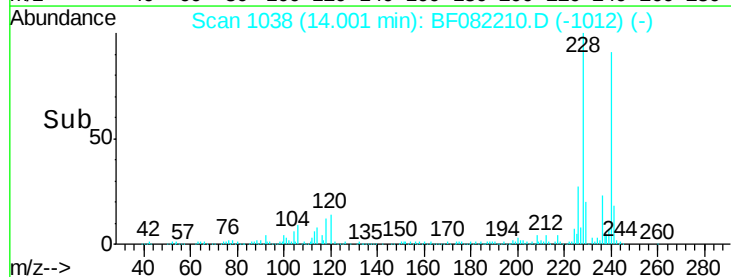
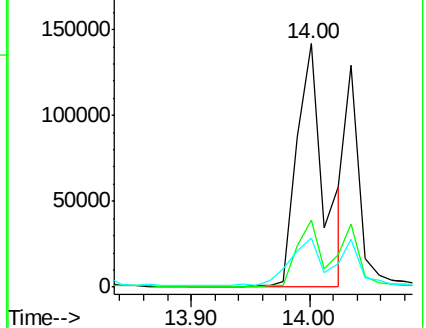
229 20.3 16.2 24.2

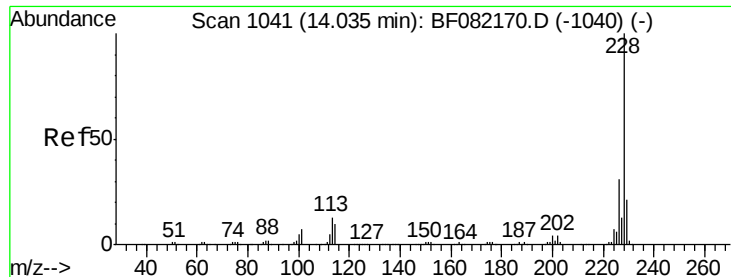


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 17.41 ng

RT: 14.00 min Scan# 1038

Delta R.T. -0.03 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

Instrument :

BNA_F

ClientSampleId :

LS-COMP(1-8)DL

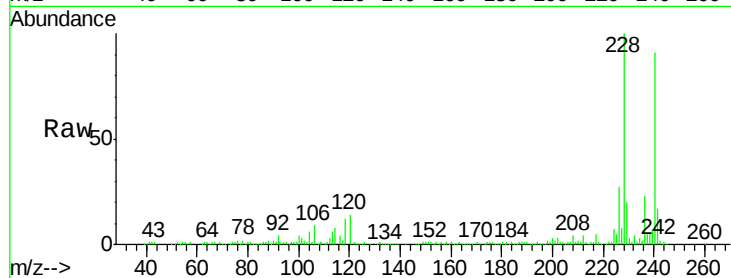
Tot Ion:228 Resp: 223842

Ion Ratio Lower Upper

228 100

226 27.5 24.4 36.6

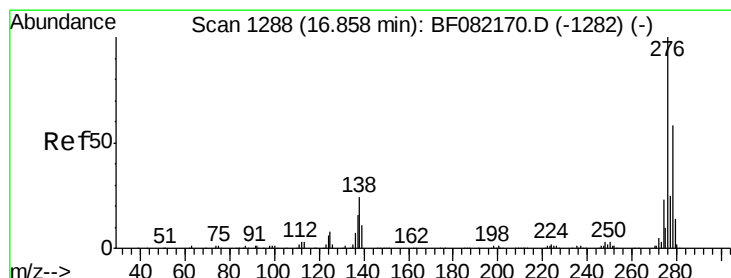
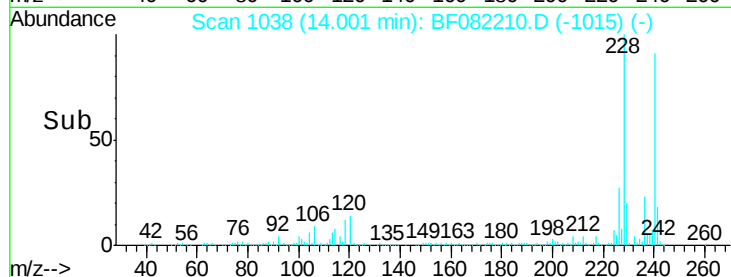
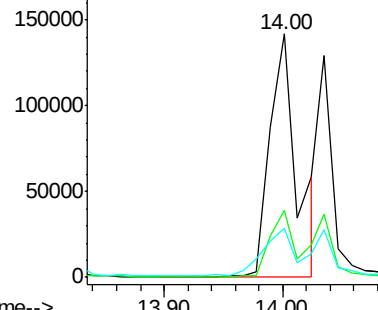
229 20.3 16.3 24.5



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 6.35 ng

RT: 16.85 min Scan# 1287

Delta R.T. -0.01 min

Lab File: BF082210.D

Acq: 11 Oct 2015 8:09

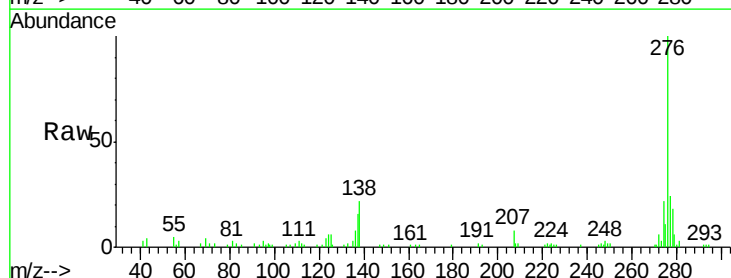
Tgt Ion:276 Resp: 64920

Ion Ratio Lower Upper

276 100

138 22.8 19.7 29.5

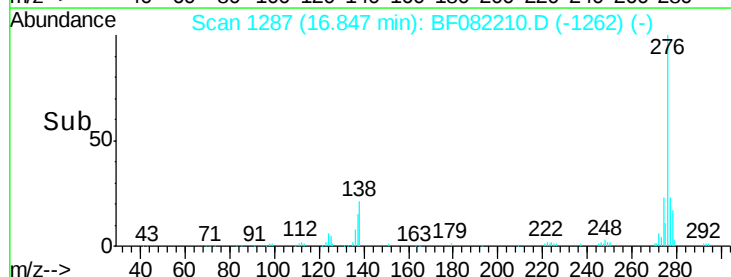
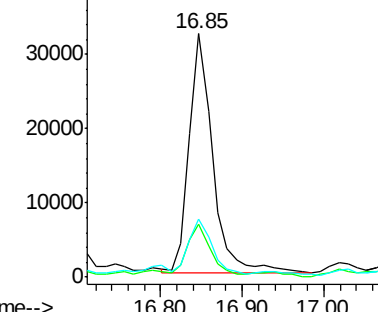
277 23.2 20.1 30.1

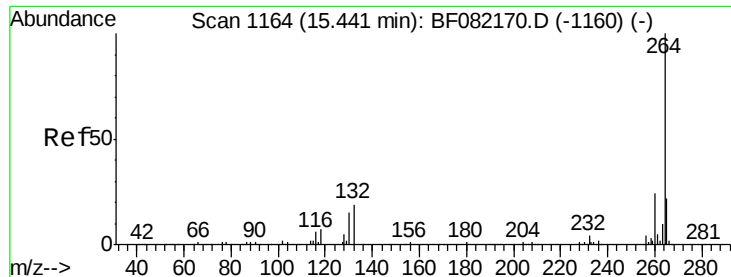


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

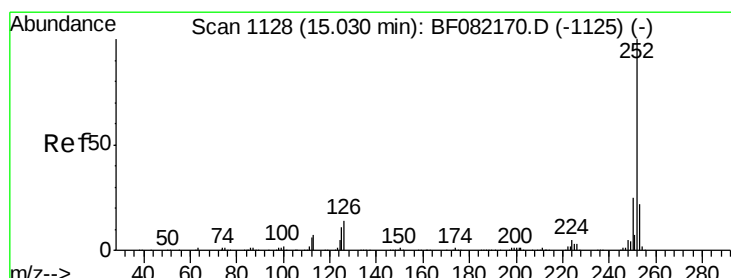
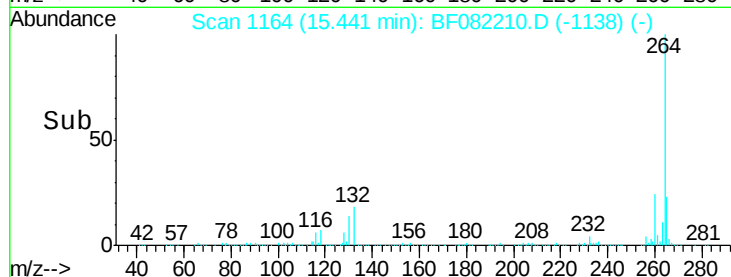
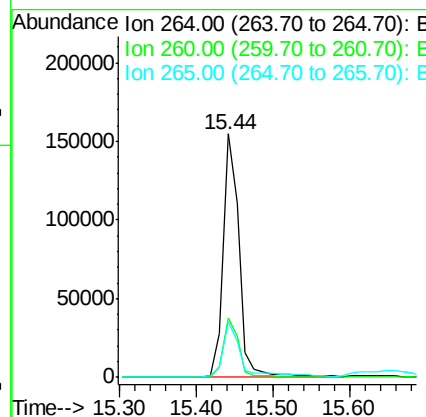
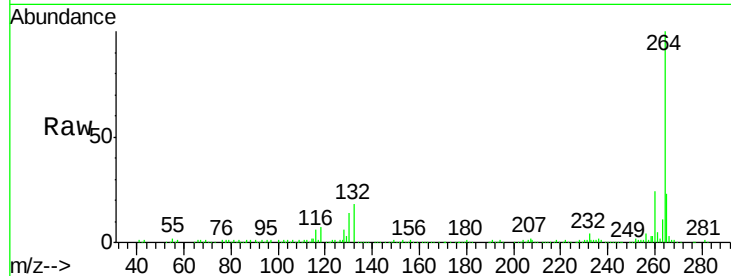




#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.44 min Scan# 1164
Delta R.T. 0.00 min
Lab File: BF082210.D
Acq: 11 Oct 2015 8:09

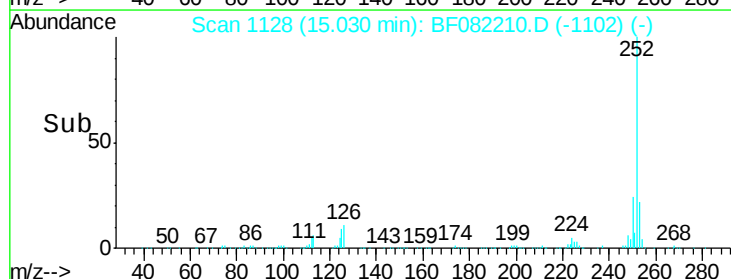
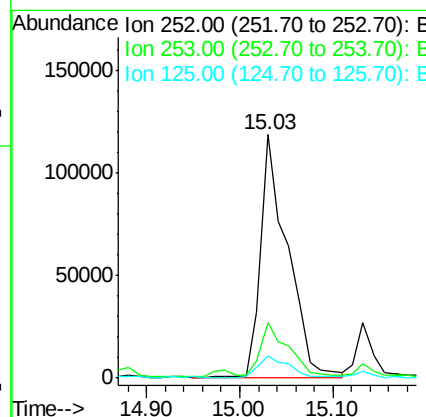
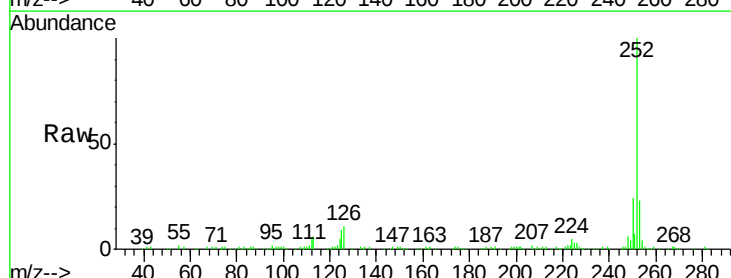
Instrument :
BNA_F
ClientSampleId :
LS-COMP(1-8)DL

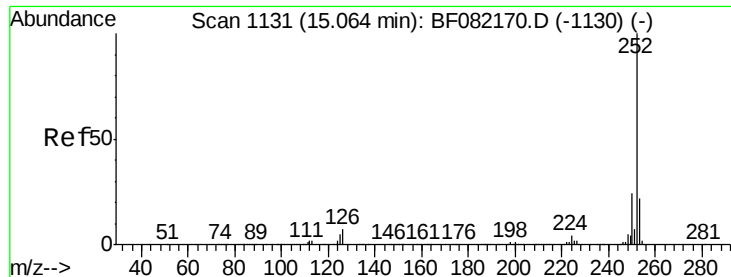
Tot Ion:264 Resp: 225964
Ion Ratio Lower Upper
264 100
260 24.4 19.0 28.6
265 22.5 17.3 25.9



#87
Benzo(b)fluoranthene
Concen: 17.13 ng
RT: 15.03 min Scan# 1128
Delta R.T. 0.00 min
Lab File: BF082210.D
Acq: 11 Oct 2015 8:09

Tgt Ion:252 Resp: 235456
Ion Ratio Lower Upper
252 100
253 22.9 18.0 27.0
125 9.4 8.6 12.8

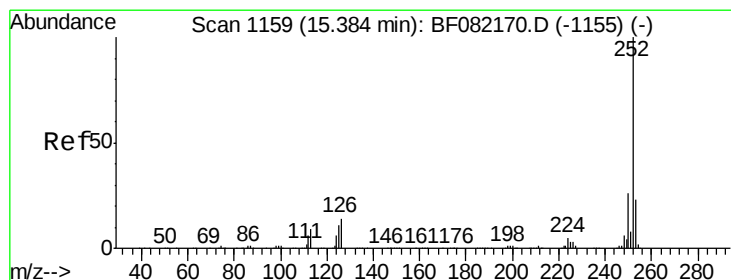
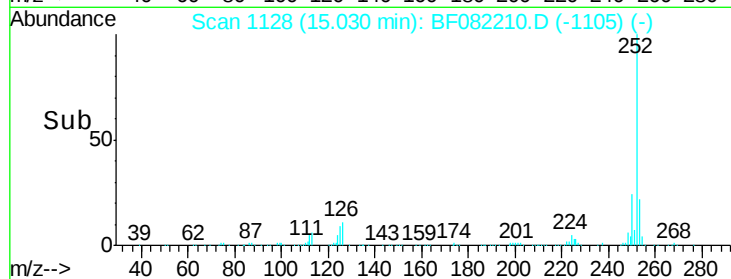
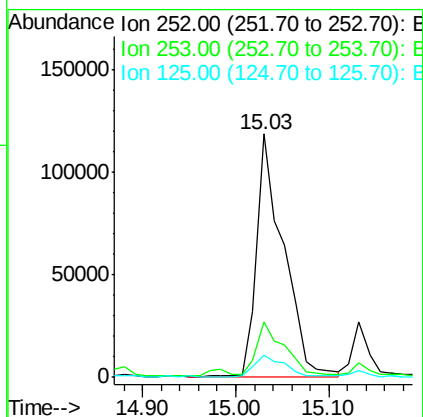
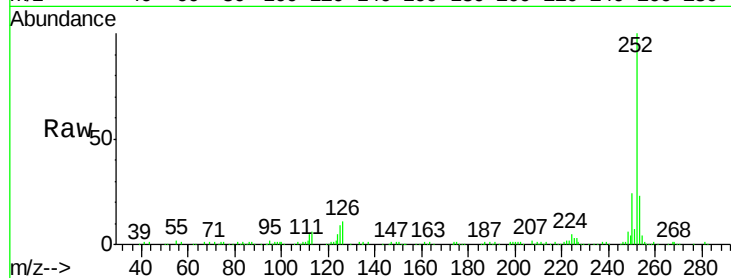




#88
Benzo(k)fluoranthene
Concen: 20.38 ng
RT: 15.03 min Scan# 1128
Delta R.T. -0.03 min
Lab File: BF082210.D
Acq: 11 Oct 2015 8:09

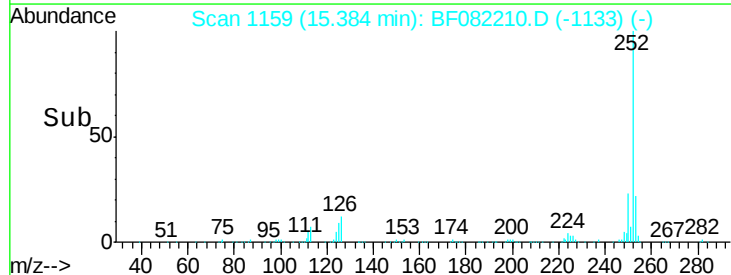
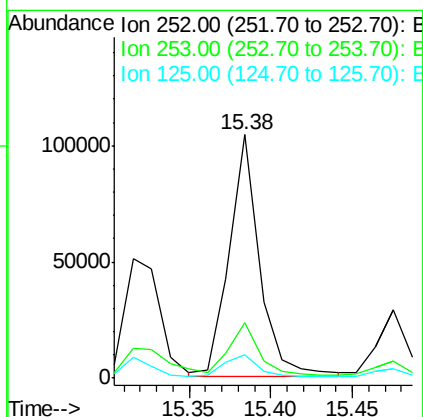
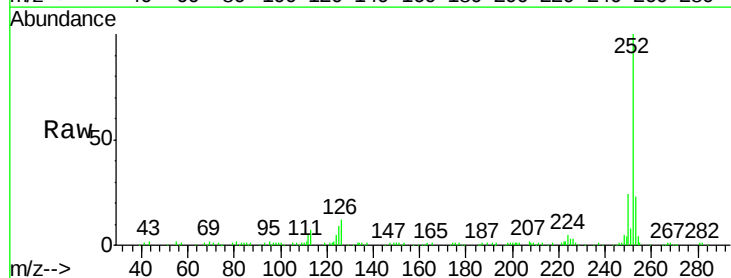
Instrument :
BNA_F
ClientSampleId :
LS-COMP(1-8)DL

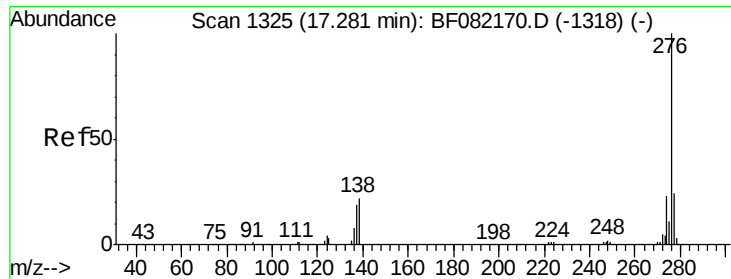
Tot Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.6
125	9.4	6.7	10.1



#89
Benzo(a)pyrene
Concen: 11.31 ng
RT: 15.38 min Scan# 1159
Delta R.T. 0.00 min
Lab File: BF082210.D
Acq: 11 Oct 2015 8:09

Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	18.2	27.2
125	9.5	8.9	13.3

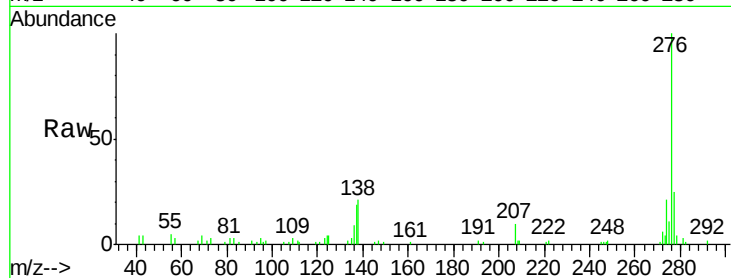




#91
 Benzo(a,h,i)perylene
 Concen: 6.77 ng
 RT: 17.27 min Scan# 1324
 Delta R.T. -0.01 min
 Lab File: BF082210.D
 Acq: 11 Oct 2015 8:09

Instrument :
 BNA_F
 ClientSampleId :
 LS-COMP(1-8)DL

Tot Ion	Ratio	Lower	Upper
276	100		
277	24.7	18.8	28.2
138	21.4	17.4	26.2



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

