

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF101915\
 Data File : BF082384.D
 Acq On : 20 Oct 2015 5:59
 Operator : UM/IZ
 Sample : G4051-09DL 5X
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK1-5-20151015DL

Quant Time: Oct 20 07:47:00 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 01:46:21 2015
 Response via : Initial Calibration

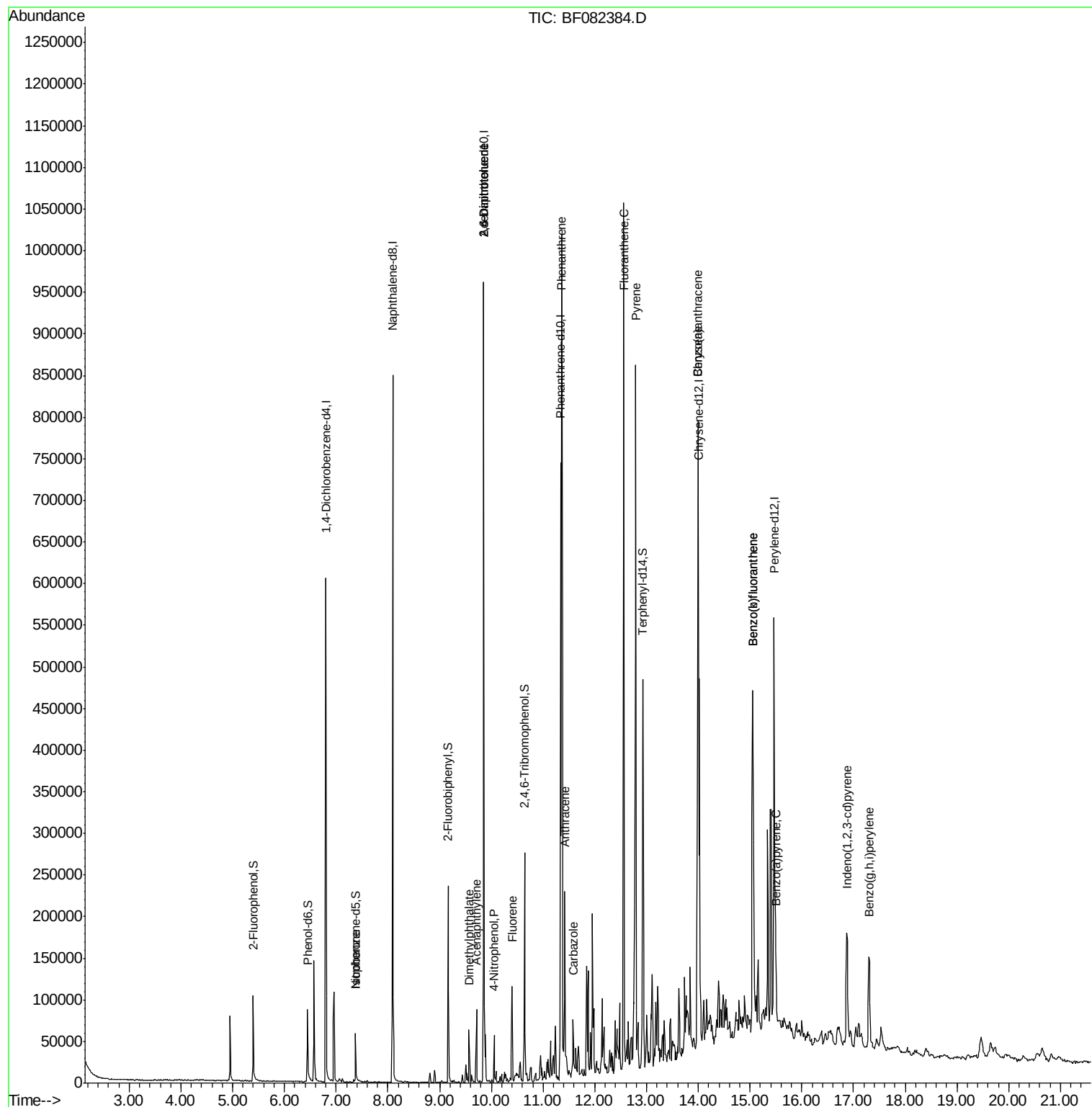
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.80	152	96504	20.00	ng	-0.03
21) Naphthalene-d8	8.09	136	379000	20.00	ng	-0.03
38) Acenaphthene-d10	9.85	164	187766	20.00	ng	-0.03
63) Phenanthrene-d10	11.34	188	317965	20.00	ng	-0.03
75) Chrysene-d12	14.00	240	243236	20.00	ng	-0.01
86) Perylene-d12	15.46	264	234828	20.00	ng	0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.39	112	39872	8.34	ng	-0.03
7) Phenol-d6	6.45	99	54407	8.74	ng	-0.03
23) Nitrobenzene-d5	7.37	82	29512	5.23	ng	-0.05
41) 2,4,6-Tribromophenol	10.64	330	28283	16.06	ng	-0.03
44) 2-Fluorobiphenyl	9.17	172	96317	8.51	ng	-0.05
78) Terphenyl-d14	12.93	244	147600	16.08	ng	-0.03
Target Compounds						Qvalue
25) Isophorone	7.37	82	24436	2.15	ng	# 66
48) Acenaphthylene	9.71	152	47828	2.72	ng	98
49) Dimethylphthalate	9.57	163	32936	2.49	ng	99
50) 2,6-Dinitrotoluene	9.85	165	24360	8.73	ng	# 32
55) 4-Nitrophenol	10.06	139	9051	5.40	ng	# 11
56) 2,4-Dinitrotoluene	9.85	165	24361	6.99	ng	# 23
57) Fluorene	10.40	166	38579	3.25	ng	95
70) Phenanthrene	11.36	178	467917	30.02	ng	99
71) Anthracene	11.42	178	121192	7.55	ng	98
72) Carbazole	11.58	167	41621	2.84	ng	98
74) Fluoranthene	12.56	202	555283	33.17	ng	96
77) Pyrene	12.79	202	442285	30.64	ng	98
80) Benzo(a)anthracene	13.99	228	212804	16.81	ng	95
82) Chrysene	13.99	228	212804	15.96	ng	98
85) Indeno(1,2,3-cd)pyrene	16.87	276	101716	9.60	ng	96
87) Benzo(b)fluoranthene	15.05	252	315260	22.07	ng	100
88) Benzo(k)fluoranthene	15.05	252	315260	26.25	ng	# 97
89) Benzo(a)pyrene	15.50	252	49930	4.07	ng	96
91) Benzo(g,h,i)perylene	17.30	276	94032	9.62	ng	98

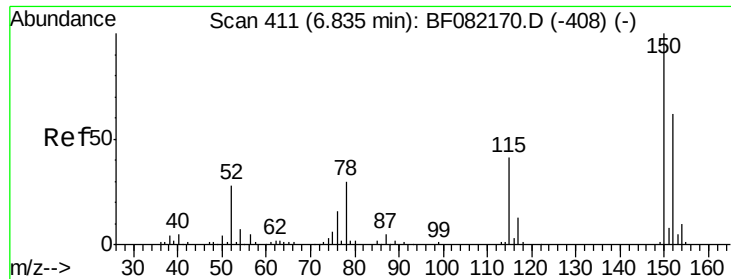
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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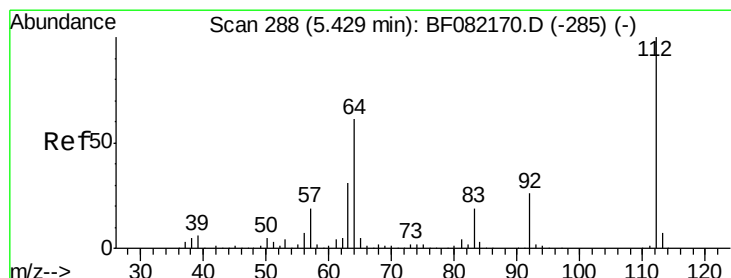
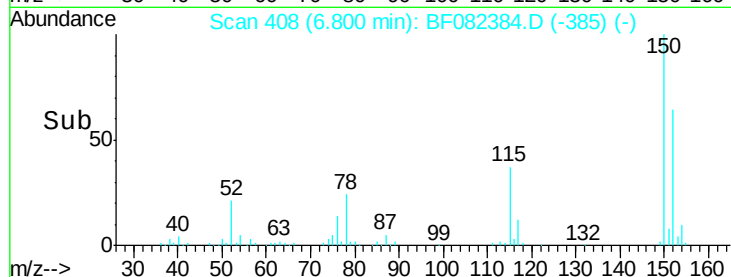
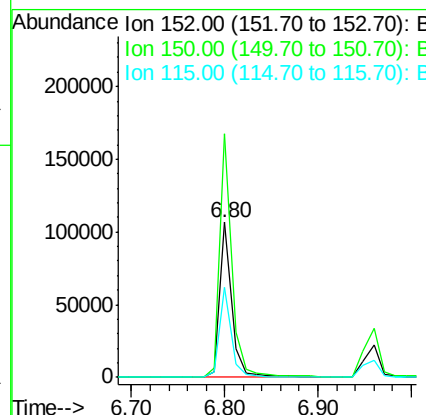
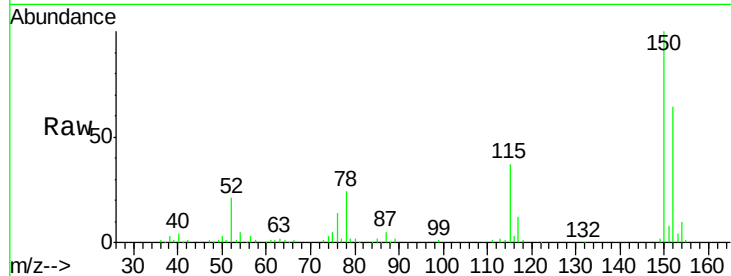




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.80 min Scan# 408
 Delta R.T. -0.03 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

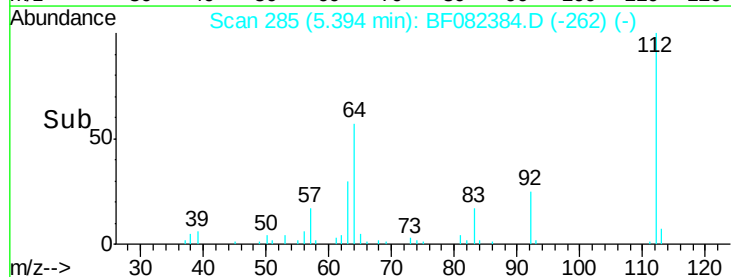
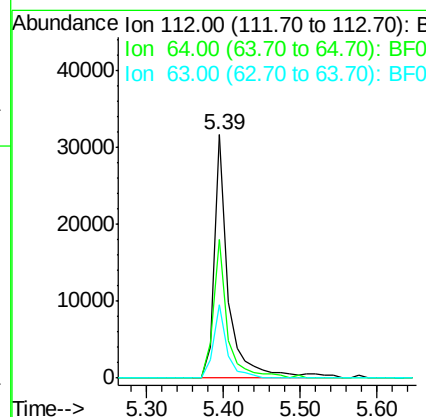
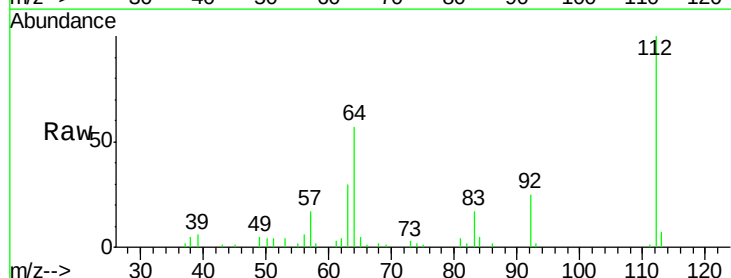
Instrument :
 BNA_F
 ClientSampleId :
 TK1-5-20151015DL

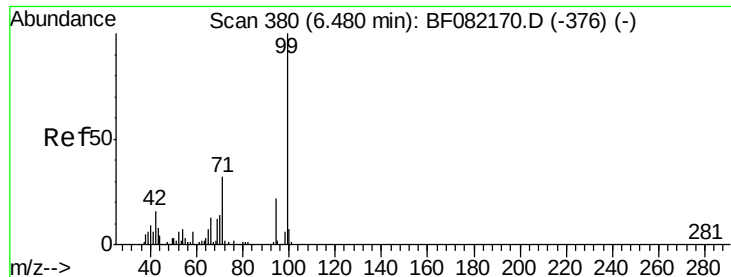
Tgt Ion:152 Resp: 96504
 Ion Ratio Lower Upper
 152 100
 150 157.1 129.0 193.4
 115 57.9 52.1 78.1



#5
 2-Fluorophenol
 Concen: 8.34 ng
 RT: 5.39 min Scan# 285
 Delta R.T. -0.03 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

Tgt Ion:112 Resp: 39872
 Ion Ratio Lower Upper
 112 100
 64 57.0 48.6 73.0
 63 29.9 25.1 37.7





#7

Phenol-d6

Concen: 8.74 ng

RT: 6.45 min Scan# 377

Delta R.T. -0.03 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Instrument :

BNA_F

ClientSampleId :

TK1-5-20151015DL

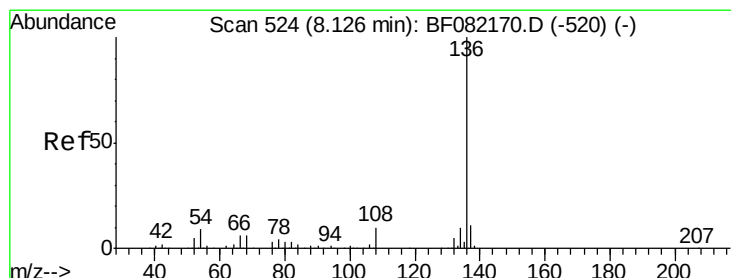
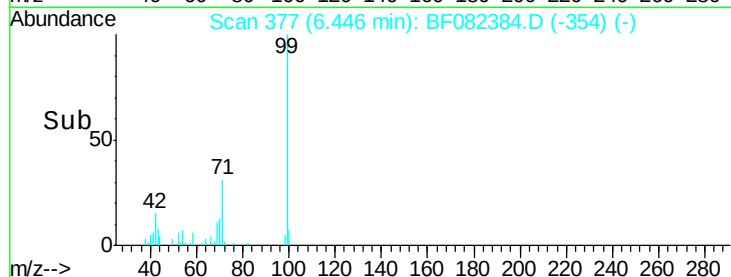
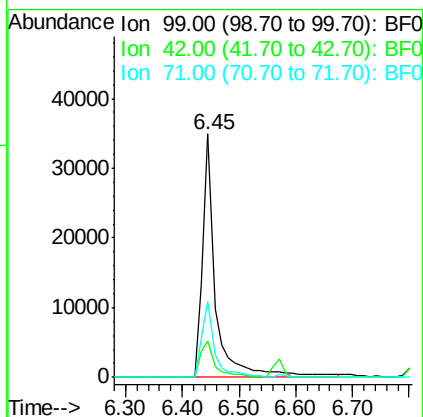
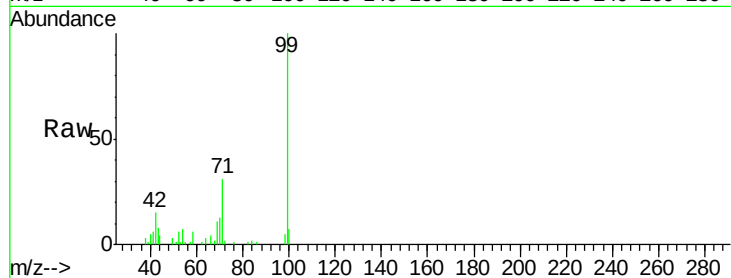
Tgt Ion: 99 Resp: 54407

Ion Ratio Lower Upper

99 100

42 14.6 13.2 19.8

71 30.9 25.6 38.4



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.09 min Scan# 521

Delta R.T. -0.03 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Tgt Ion: 136 Resp: 379000

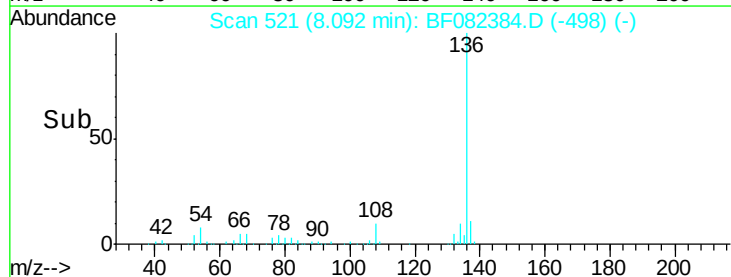
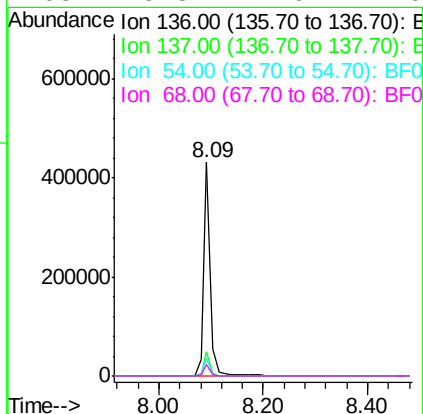
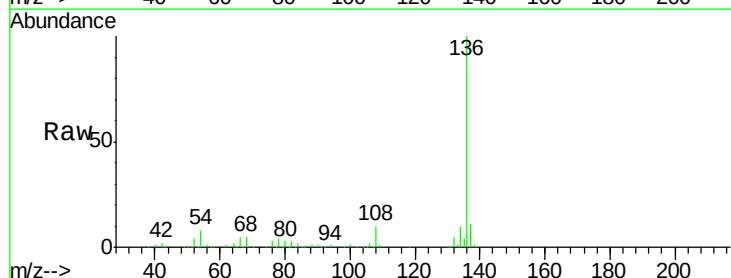
Ion Ratio Lower Upper

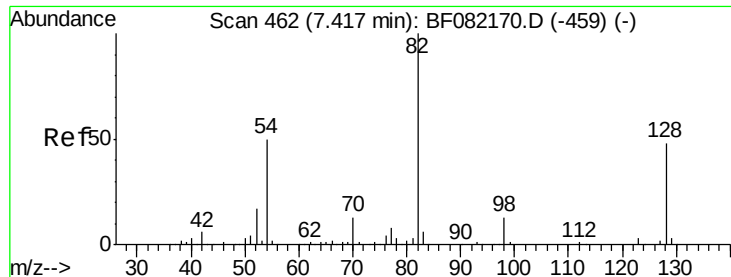
136 100

137 11.3 9.0 13.6

54 8.2 7.5 11.3

68 5.3 4.6 7.0

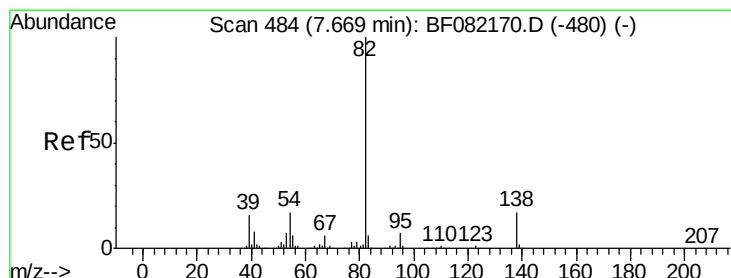
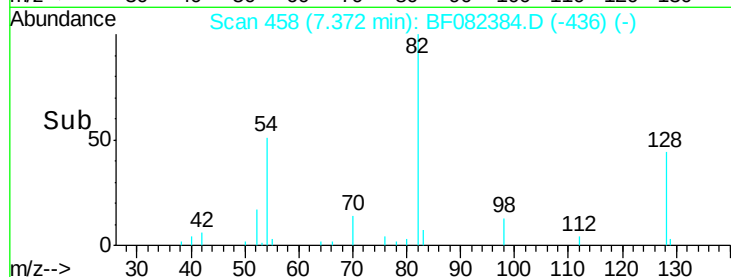
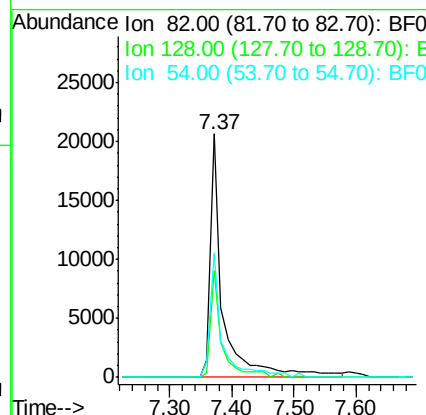
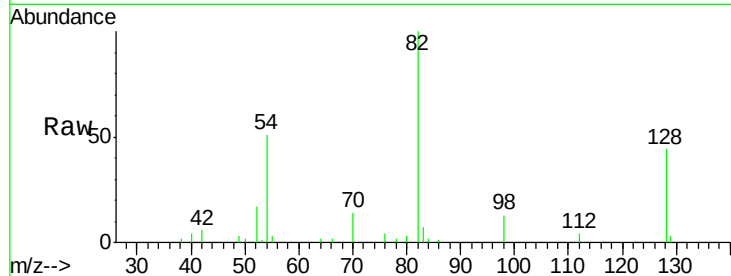




#23
 Nitrobenzene-d5
 Concen: 5.23 ng
 RT: 7.37 min Scan# 458
 Delta R.T. -0.05 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

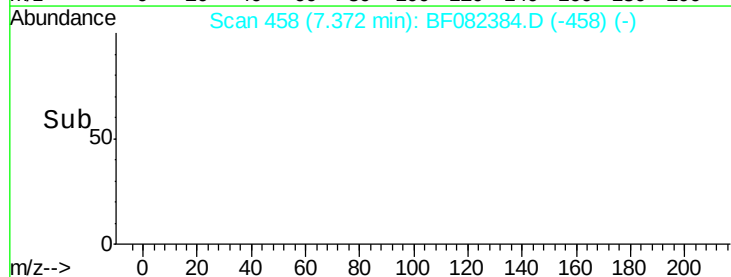
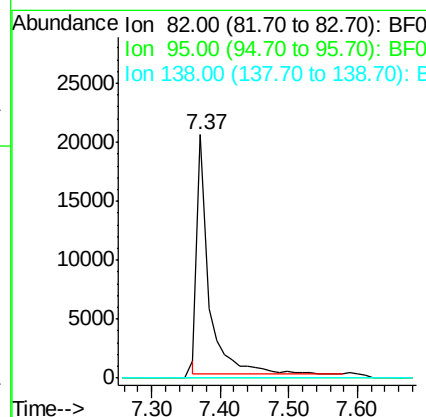
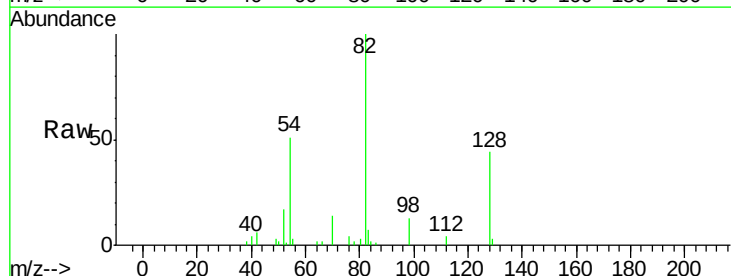
Instrument :
 BNA_F
 ClientSampleId :
 TK1-5-20151015DL

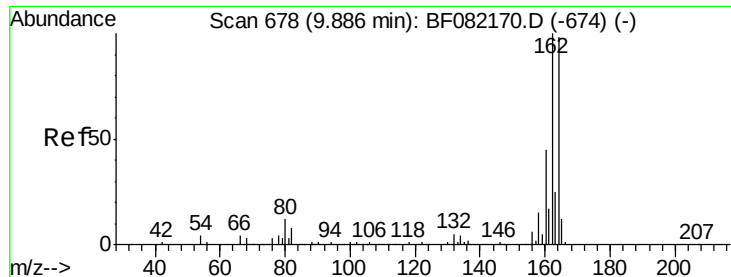
Tgt Ion: 82 Resp: 29512
 Ion Ratio Lower Upper
 82 100
 128 43.8 38.7 58.1
 54 51.4 40.1 60.1



#25
 Isophorone
 Concen: 2.15 ng
 RT: 7.37 min Scan# 458
 Delta R.T. -0.30 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

Tgt Ion: 82 Resp: 24436
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.6 8.4#
 138 0.0 13.6 20.4#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.85 min Scan# 675

Delta R.T. -0.03 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Instrument :

BNA_F

ClientSampleId :

TK1-5-20151015DL

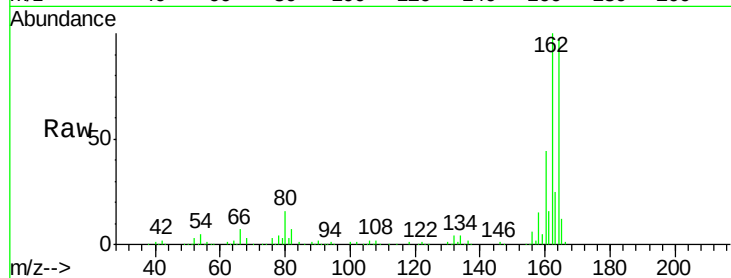
Tgt Ion:164 Resp: 187766

Ion Ratio Lower Upper

164 100

162 102.9 81.6 122.4

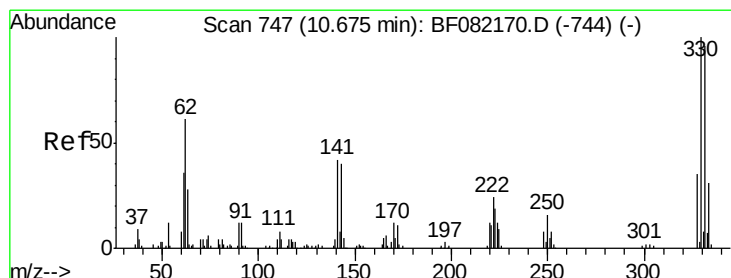
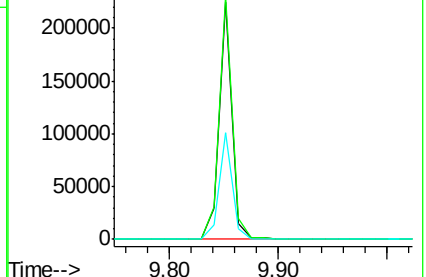
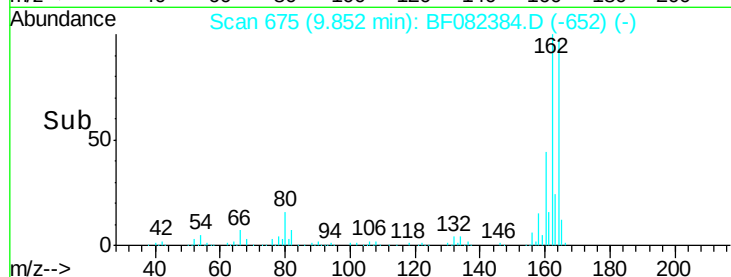
160 45.1 36.4 54.6



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



#41

2,4,6-Tribromophenol

Concen: 16.06 ng

RT: 10.64 min Scan# 744

Delta R.T. -0.03 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

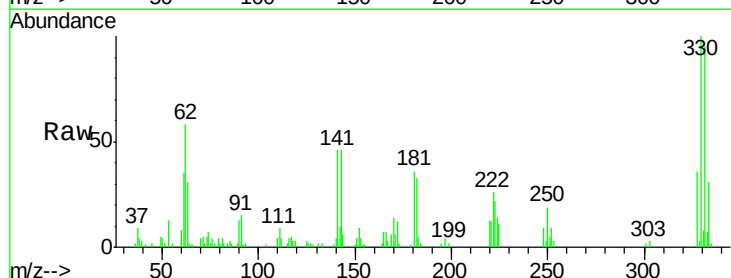
Tgt Ion:330 Resp: 28283

Ion Ratio Lower Upper

330 100

332 96.8 77.1 115.7

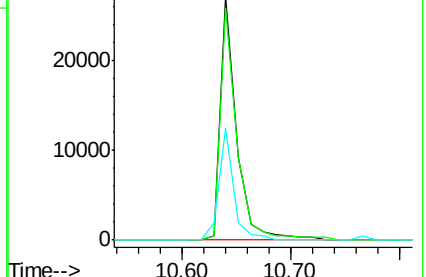
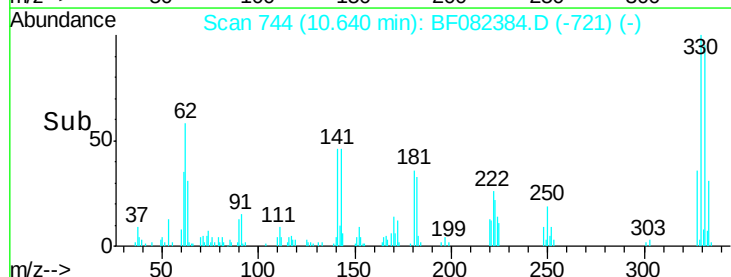
141 41.9 29.8 44.8

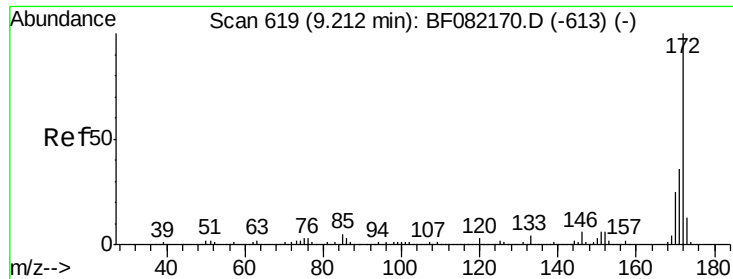


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

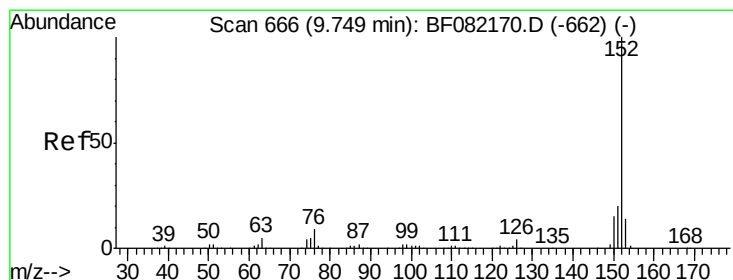
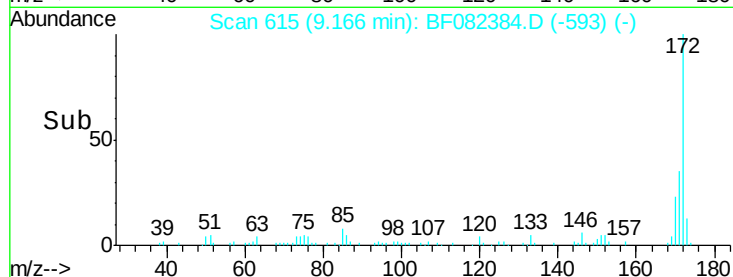
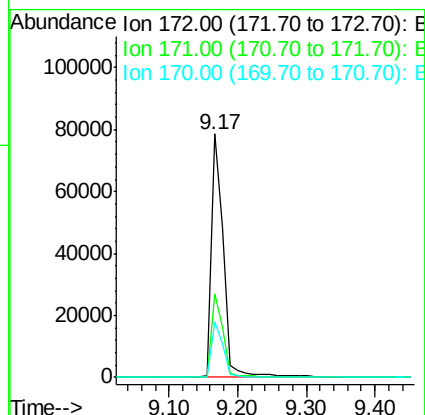
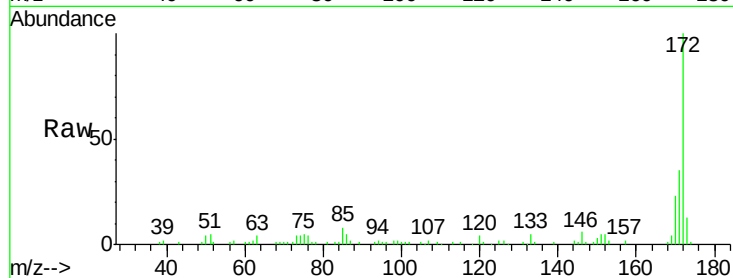




#44
 2-Fluorobiphenyl
 Concen: 8.51 ng
 RT: 9.17 min Scan# 615
 Delta R.T. -0.05 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

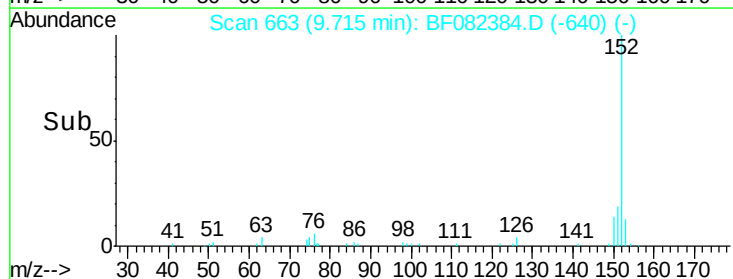
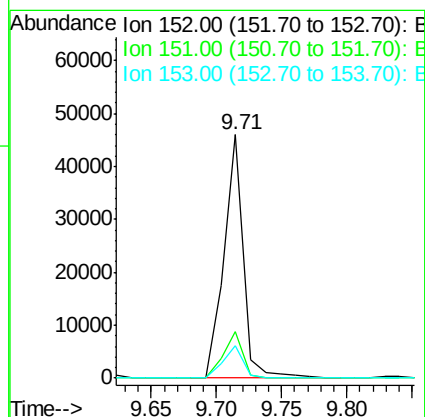
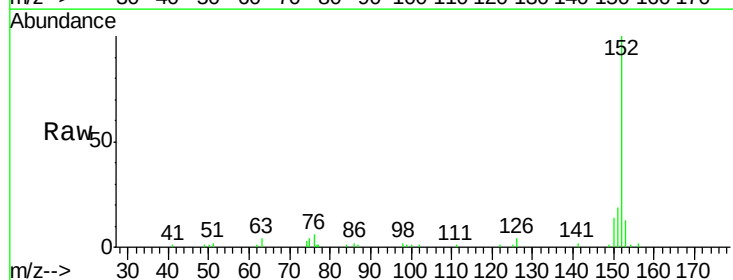
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 TK1-5-20151015DL

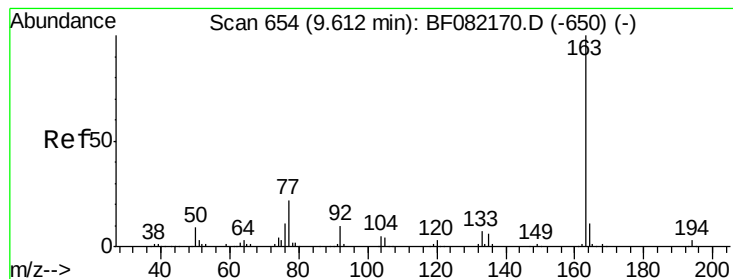
Tgt Ion:172 Resp: 96317
 Ion Ratio Lower Upper
 172 100
 171 34.6 28.6 42.8
 170 23.0 19.7 29.5



#48
 Acenaphthylene
 Concen: 2.72 ng
 RT: 9.71 min Scan# 663
 Delta R.T. -0.03 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

Tgt Ion:152 Resp: 47828
 Ion Ratio Lower Upper
 152 100
 151 18.9 16.4 24.6
 153 13.2 10.8 16.2





#49

Dimethylphthalate

Concen: 2.49 ng

RT: 9.57 min Scan# 650

Delta R.T. -0.05 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Instrument :

BNA_F

ClientSampleId :

TK1-5-20151015DL

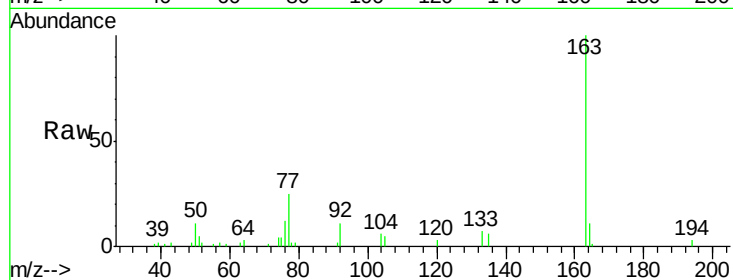
Tgt Ion:163 Resp: 32936

Ion Ratio Lower Upper

163 100

194 3.1 2.6 4.0

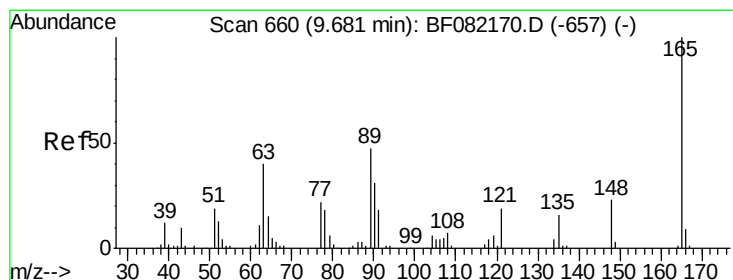
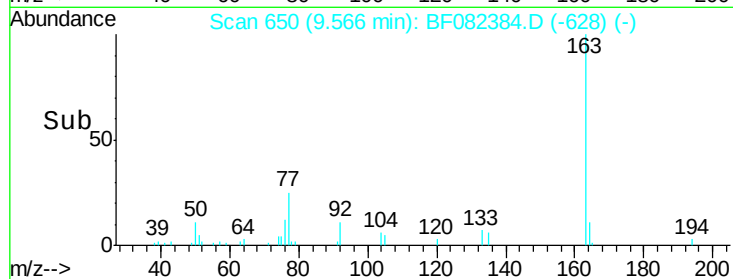
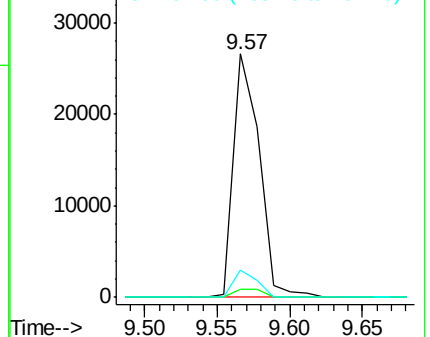
164 11.1 8.5 12.7



Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E



#50

2,6-Dinitrotoluene

Concen: 8.73 ng

RT: 9.85 min Scan# 675

Delta R.T. 0.17 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

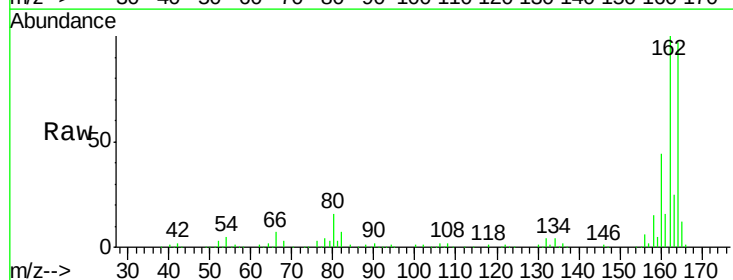
Tgt Ion:165 Resp: 24360

Ion Ratio Lower Upper

165 100

63 1.4 36.7 55.1#

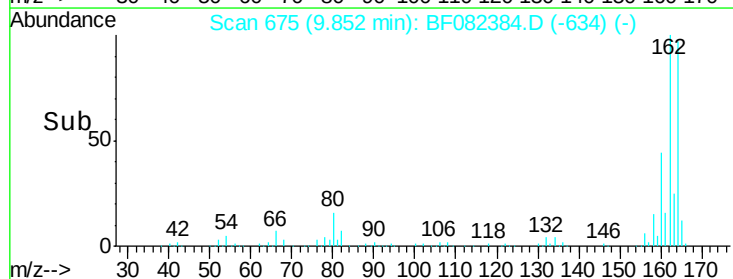
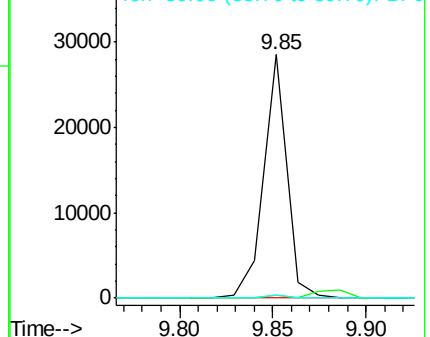
89 1.5 37.8 56.6#

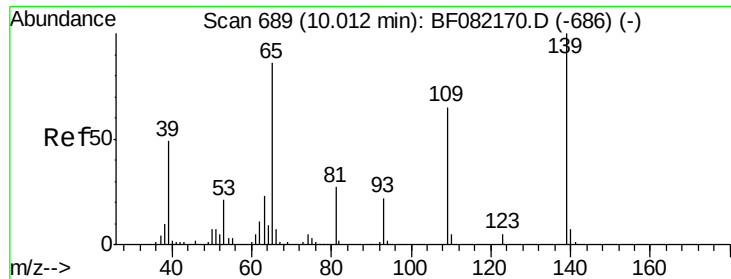


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0





#55

4-Nitrophenol

Concen: 5.40 ng

RT: 10.06 min Scan# 693

Delta R.T. 0.05 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Instrument :

BNA_F

ClientSampleId :

TK1-5-20151015DL

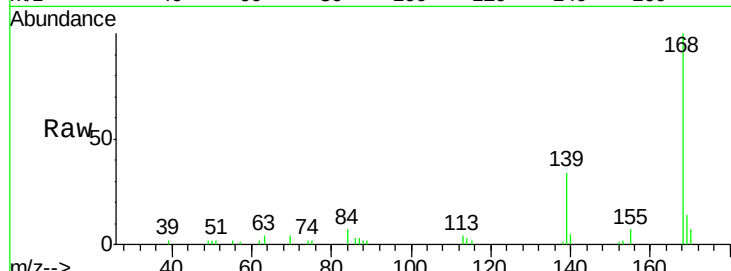
Tgt Ion:139 Resp: 9051

Ion Ratio Lower Upper

139 100

109 0.0 44.8 84.8#

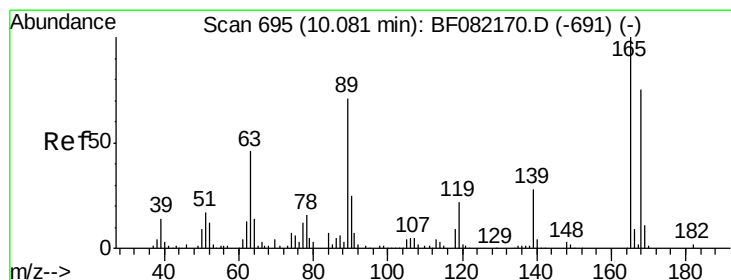
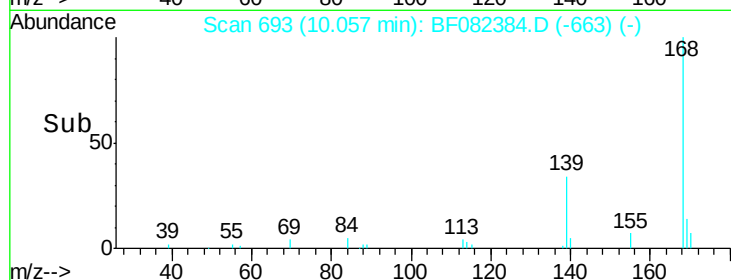
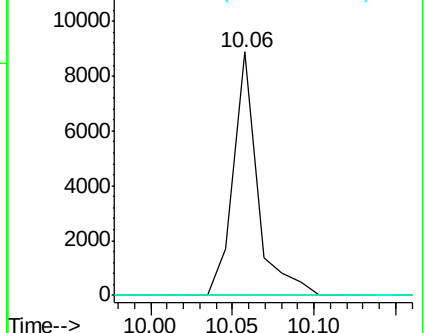
65 0.0 67.7 107.7#



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



#56

2,4-Dinitrotoluene

Concen: 6.99 ng

RT: 9.85 min Scan# 675

Delta R.T. -0.23 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Tgt Ion:165 Resp: 24361

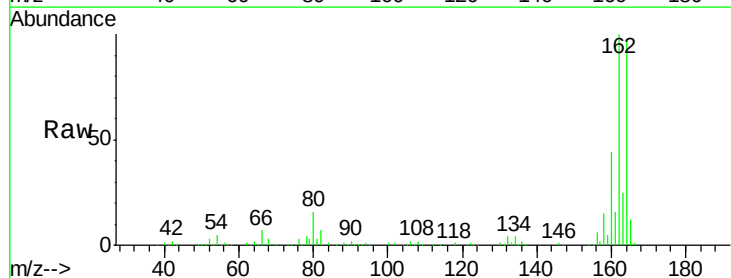
Ion Ratio Lower Upper

165 100

63 1.4 38.6 58.0#

89 1.5 57.0 85.6#

182 0.0 1.8 2.6#

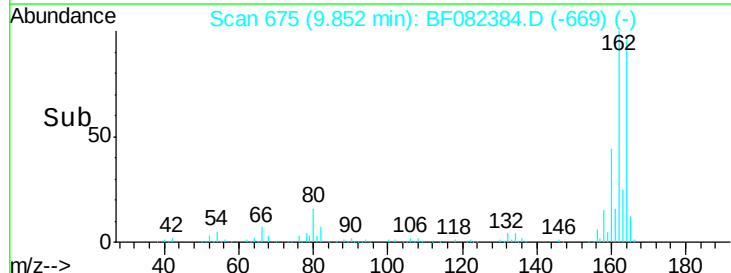
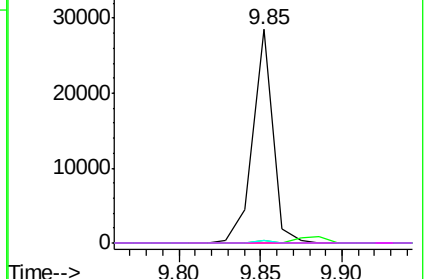


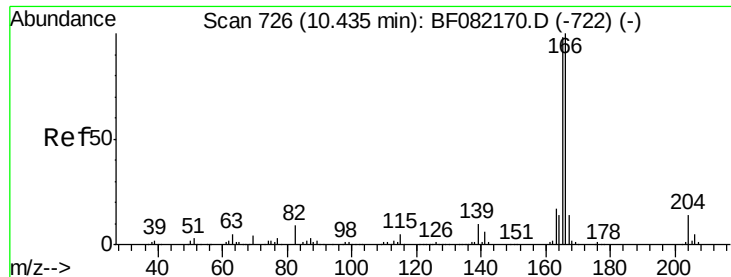
Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E

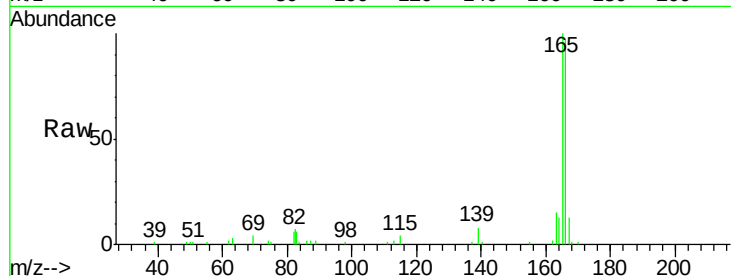




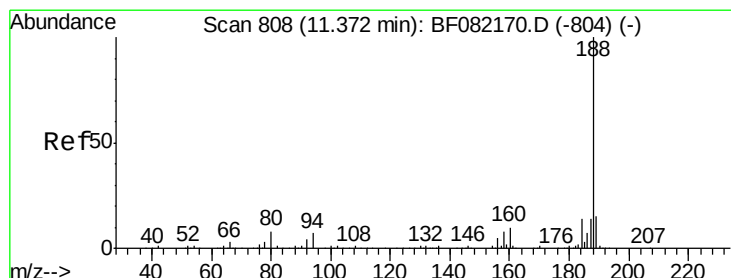
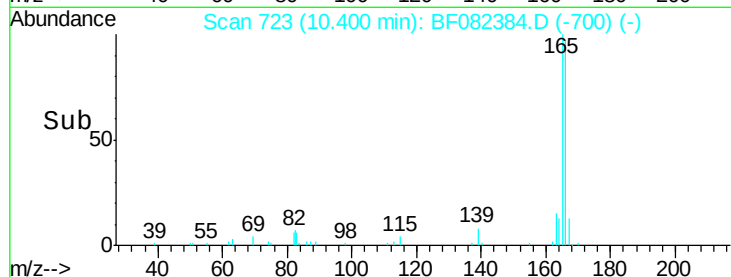
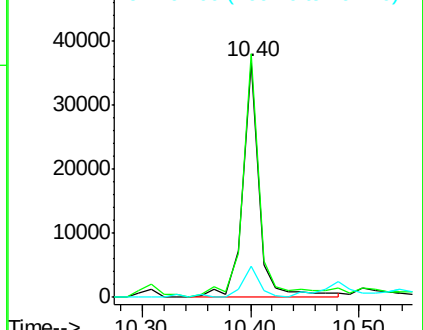
#57
 Fluorene
 Concen: 3.25 ng
 RT: 10.40 min Scan# 723
 Delta R.T. -0.03 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

Instrument :
 BNA_F
 ClientSampleId :
 TK1-5-20151015DL

Tgt Ion:166 Resp: 38579
 Ion Ratio Lower Upper
 166 100
 165 103.5 78.3 117.5
 167 13.5 10.8 16.2

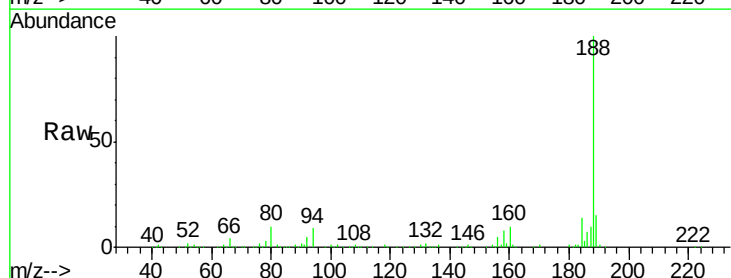


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

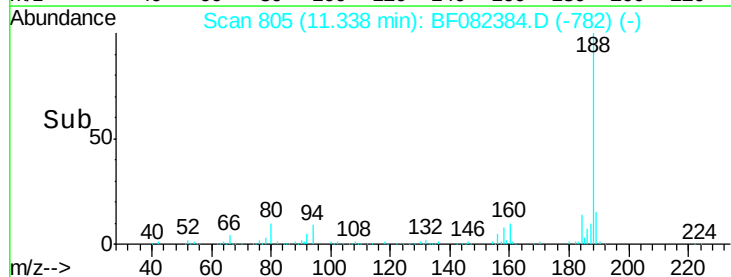
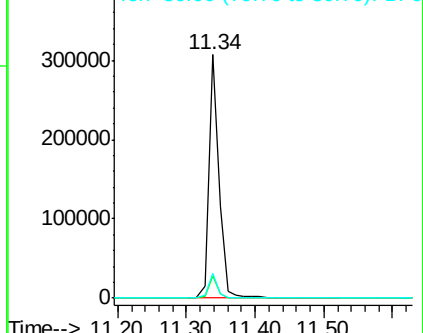


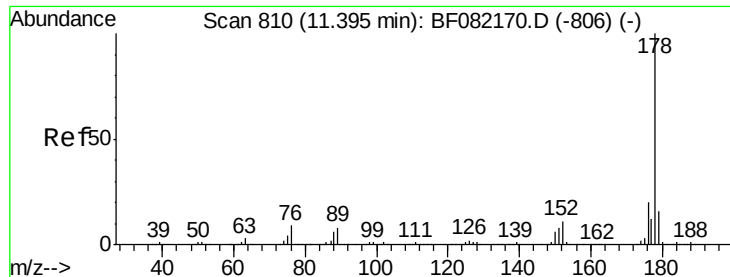
#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.34 min Scan# 805
 Delta R.T. -0.03 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

Tgt Ion:188 Resp: 317965
 Ion Ratio Lower Upper
 188 100
 94 9.2 5.8 8.6#
 80 10.1 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

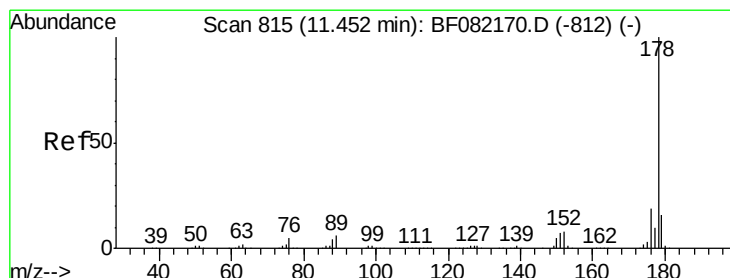
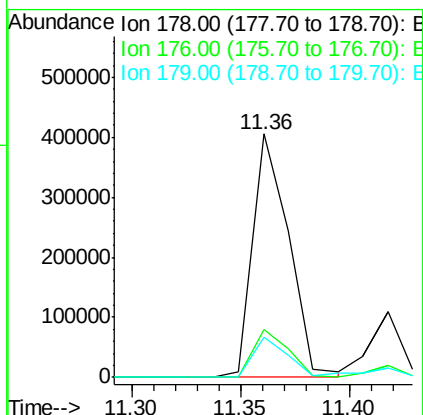
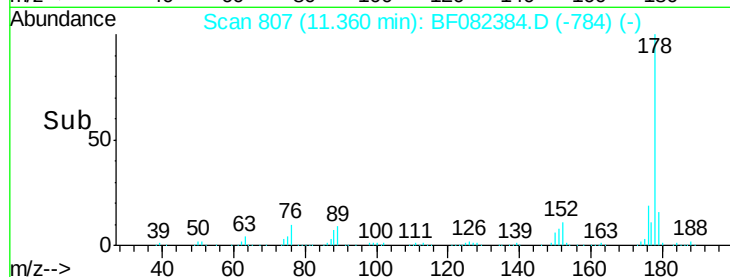
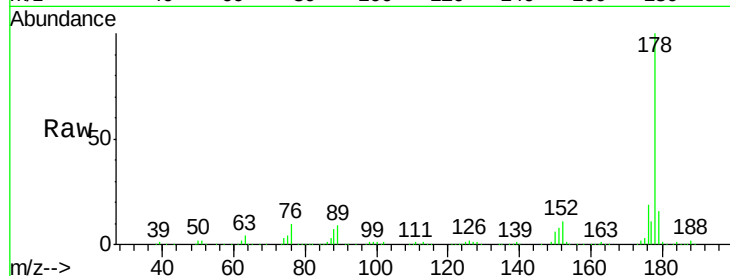




#70
Phenanthrene
Concen: 30.02 ng
RT: 11.36 min Scan# 807
Delta R.T. -0.03 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

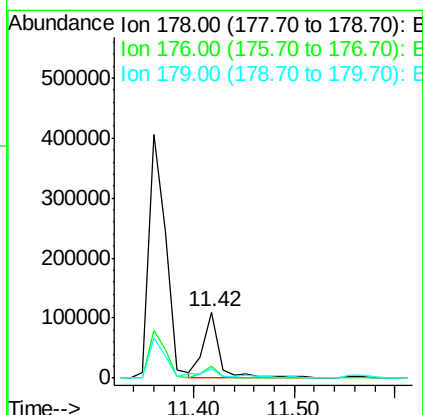
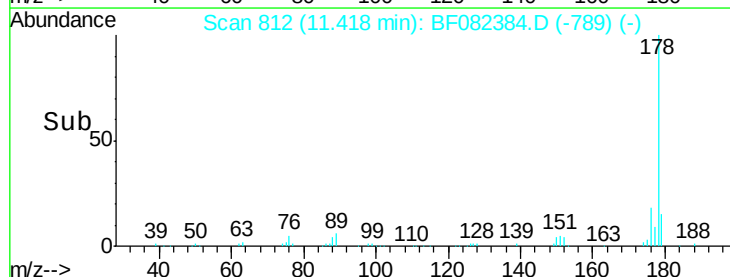
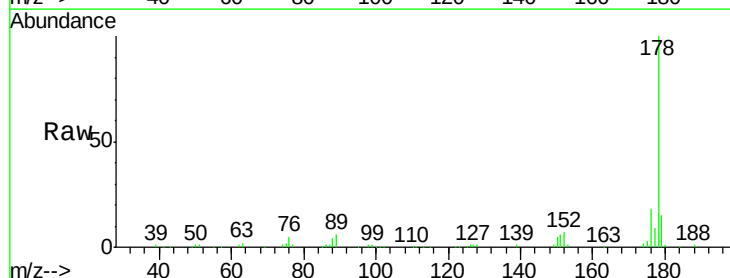
Instrument :
BNA_F
ClientSampleId :
TK1-5-20151015DL

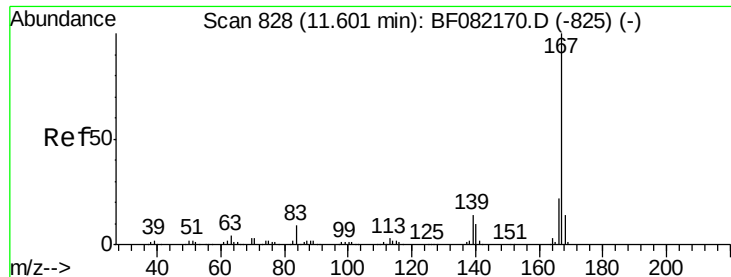
Tgt Ion:178 Resp: 467917
Ion Ratio Lower Upper
178 100
176 19.4 16.0 24.0
179 16.4 12.6 19.0



#71
Anthracene
Concen: 7.55 ng
RT: 11.42 min Scan# 812
Delta R.T. -0.03 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

Tgt Ion:178 Resp: 121192
Ion Ratio Lower Upper
178 100
176 18.0 15.4 23.0
179 15.0 12.5 18.7





#72

Carbazole

Concen: 2.84 ng

RT: 11.58 min Scan# 826

Delta R.T. -0.02 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Instrument :

BNA_F

ClientSampleId :

TK1-5-20151015DL

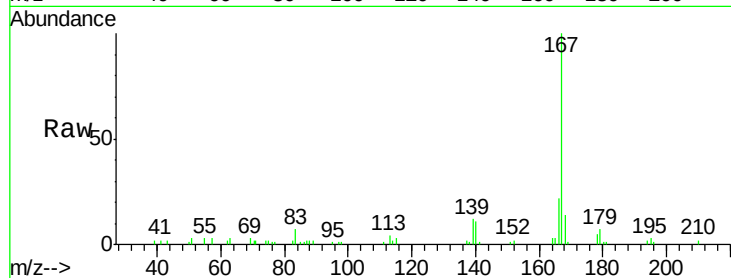
Tgt Ion:167 Resp: 41621

Ion Ratio Lower Upper

167 100

166 21.7 17.3 25.9

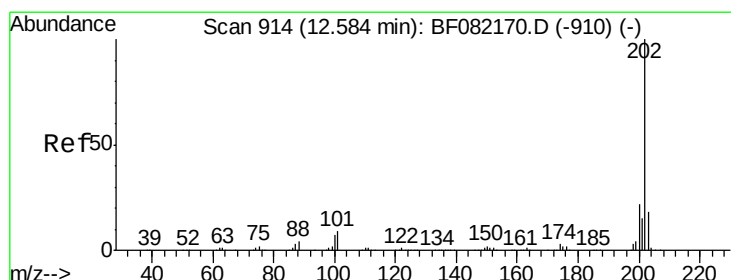
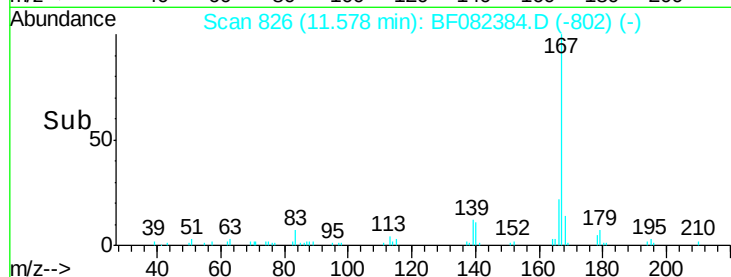
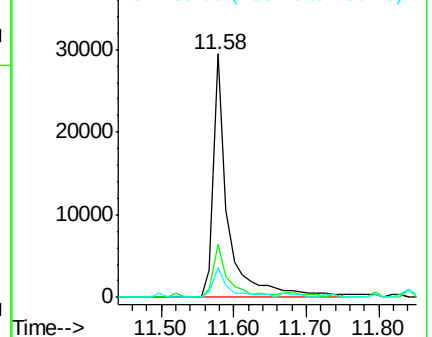
139 12.4 11.2 16.8



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: 33.17 ng

RT: 12.56 min Scan# 912

Delta R.T. -0.02 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

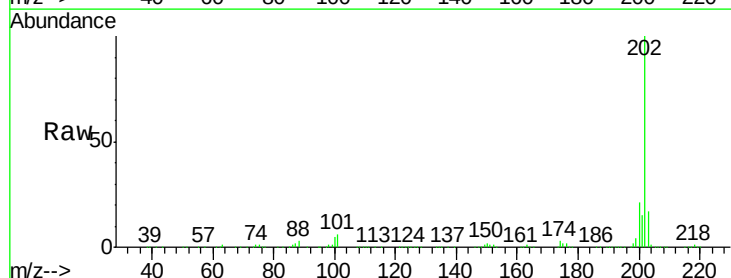
Tgt Ion:202 Resp: 555283

Ion Ratio Lower Upper

202 100

101 6.5 0.0 29.3

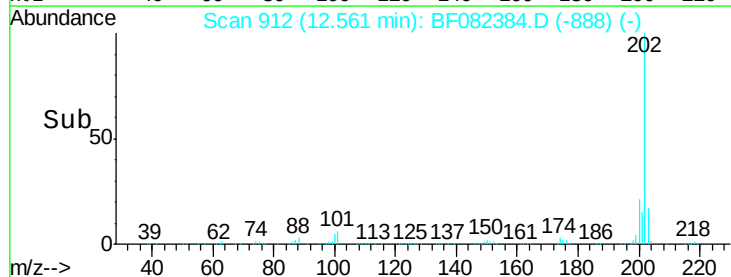
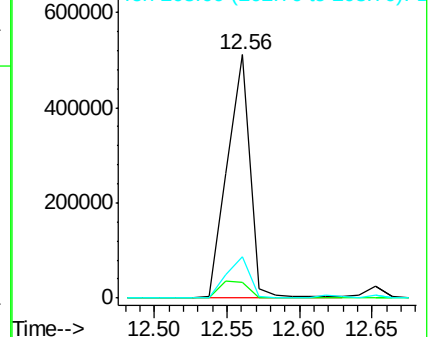
203 17.1 0.0 37.8

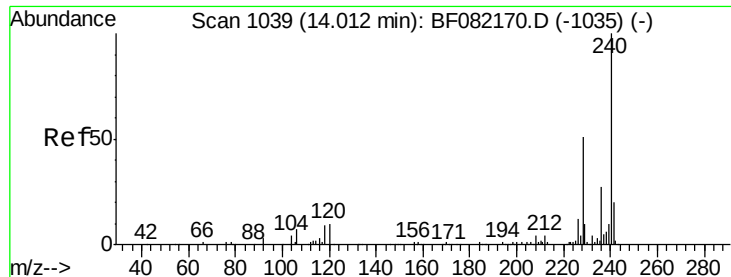


Abundance Ion 202.00 (201.70 to 202.70): E

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: 14.00 min Scan# 1038

Delta R.T. -0.01 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Instrument :

BNA_F

ClientSampleId :

TK1-5-20151015DL

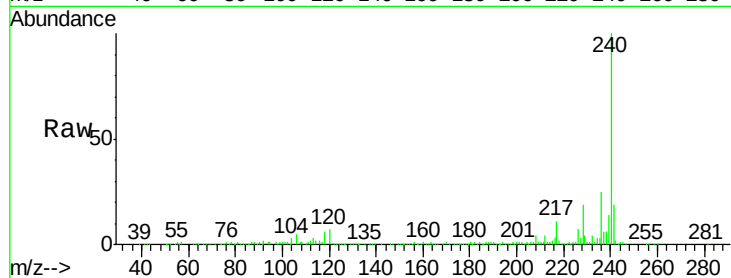
Tgt Ion:240 Resp: 243236

Ion Ratio Lower Upper

240 100

120 7.4 8.1 12.1#

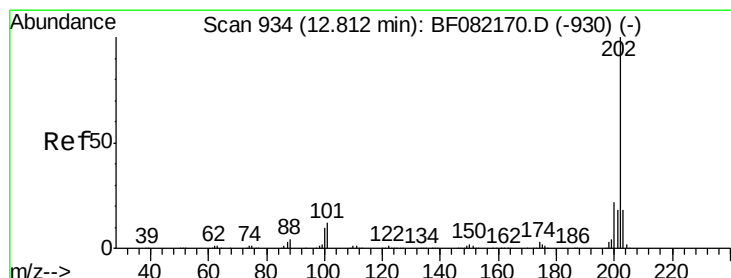
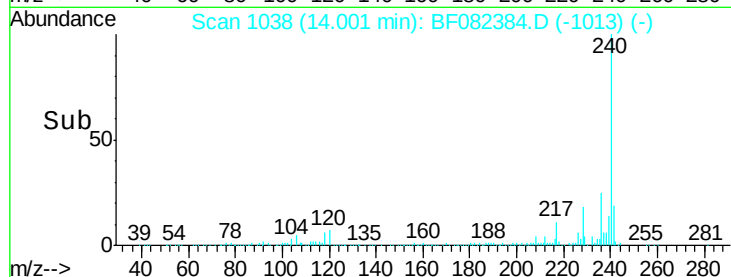
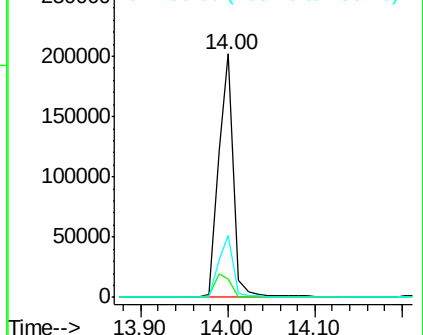
236 25.3 21.3 31.9



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: 30.64 ng

RT: 12.79 min Scan# 932

Delta R.T. -0.02 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

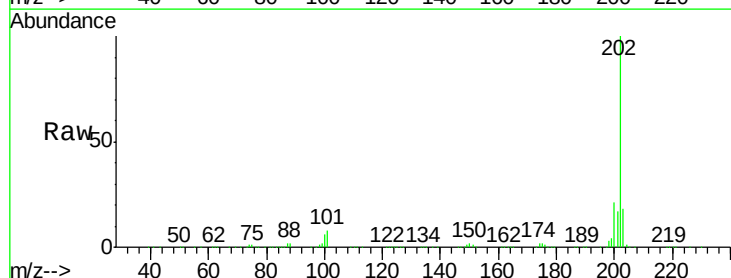
Tgt Ion:202 Resp: 442285

Ion Ratio Lower Upper

202 100

200 21.3 17.9 26.9

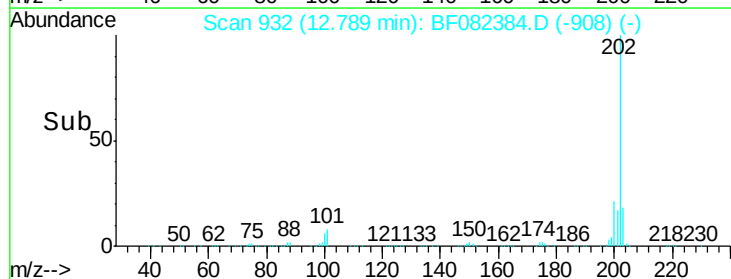
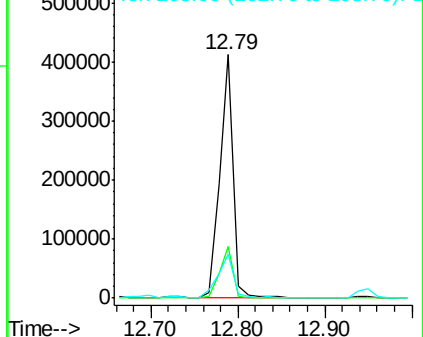
203 17.9 14.5 21.7

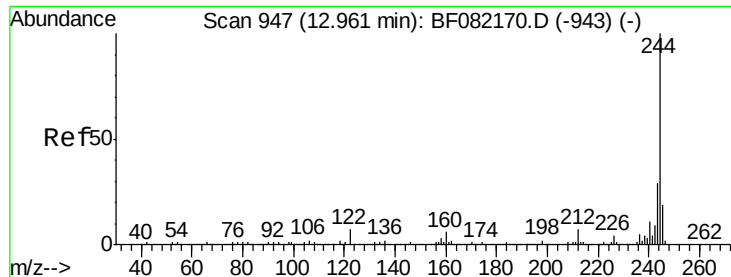


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

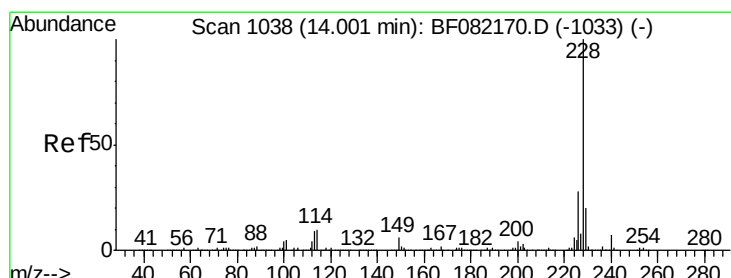
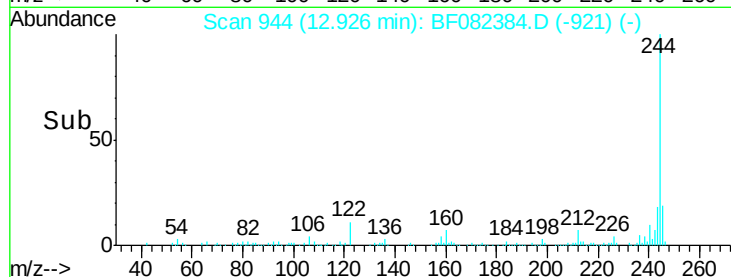
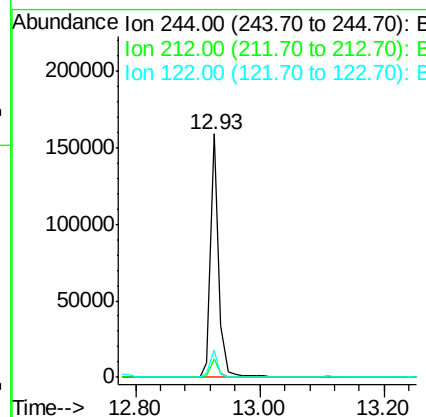
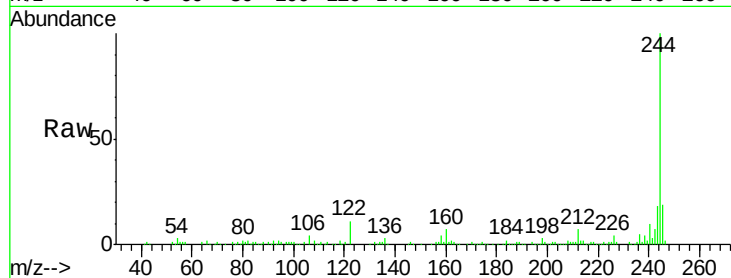




#78
 Terphenyl-d14
 Concen: 16.08 ng
 RT: 12.93 min Scan# 944
 Delta R.T. -0.03 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

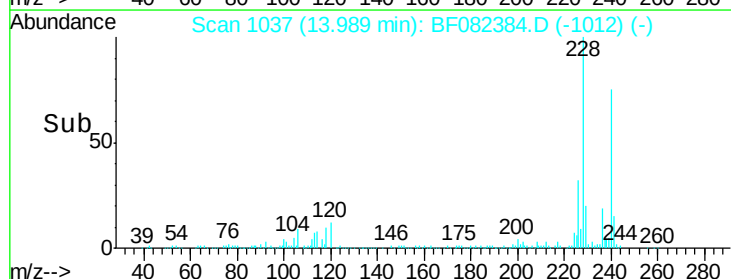
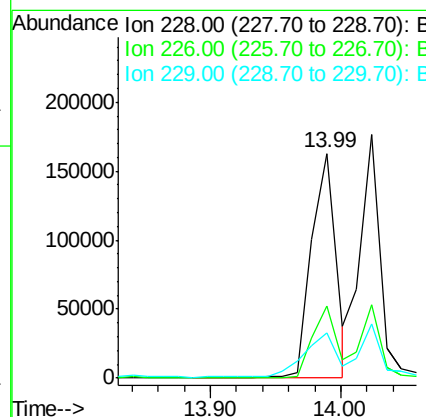
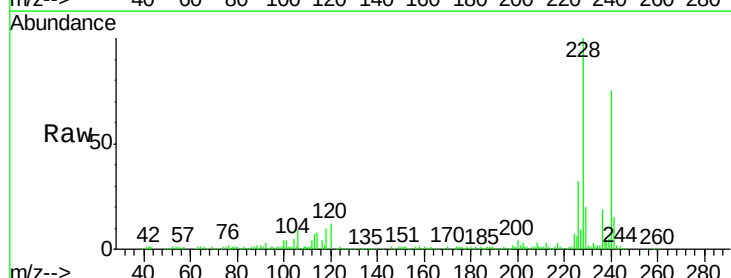
Instrument :
 BNA_F
 ClientSampleId :
 TK1-5-20151015DL

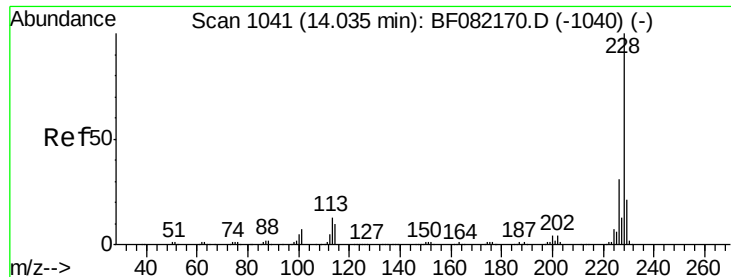
Tgt Ion:244 Resp: 147600
 Ion Ratio Lower Upper
 244 100
 212 7.5 5.8 8.6
 122 11.3 5.9 8.9#



#80
 Benzo(a)anthracene
 Concen: 16.81 ng
 RT: 13.99 min Scan# 1037
 Delta R.T. -0.01 min
 Lab File: BF082384.D
 Acq: 20 Oct 2015 5:59

Tgt Ion:228 Resp: 212804
 Ion Ratio Lower Upper
 228 100
 226 32.3 22.3 33.5
 229 20.2 16.2 24.2





#82

Chrysene

Concen: 15.96 ng

RT: 13.99 min Scan# 1037

Delta R.T. -0.05 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

Instrument :

BNA_F

ClientSampleId :

TK1-5-20151015DL

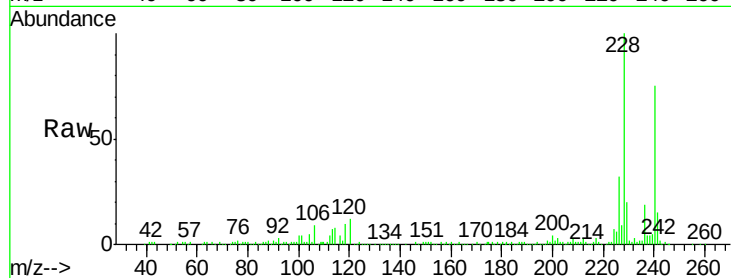
Tgt Ion:228 Resp: 212804

Ion Ratio Lower Upper

228 100

226 32.3 24.4 36.6

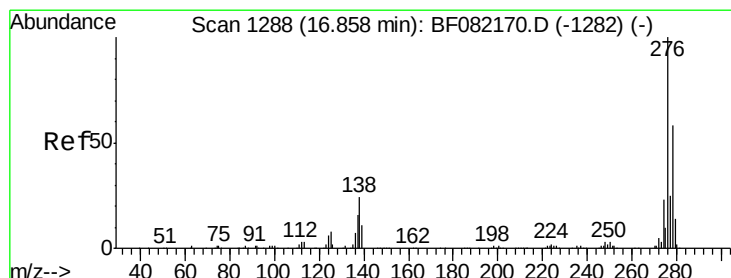
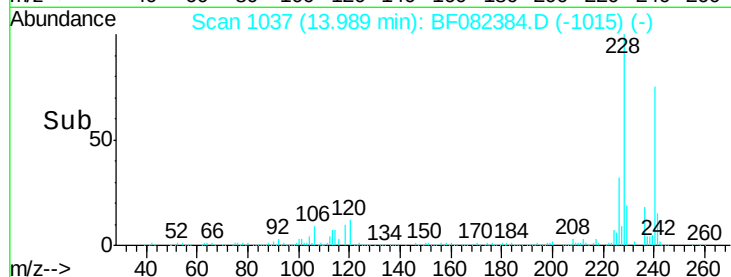
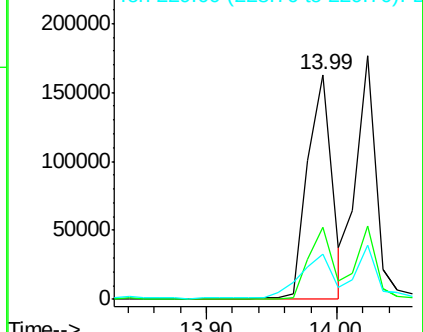
229 20.2 16.3 24.5



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: 9.60 ng

RT: 16.87 min Scan# 1289

Delta R.T. 0.01 min

Lab File: BF082384.D

Acq: 20 Oct 2015 5:59

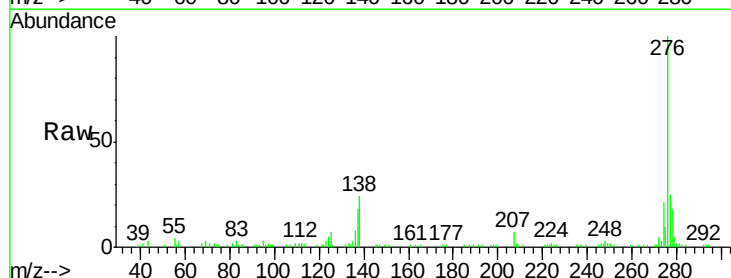
Tgt Ion:276 Resp: 101716

Ion Ratio Lower Upper

276 100

138 22.6 19.7 29.5

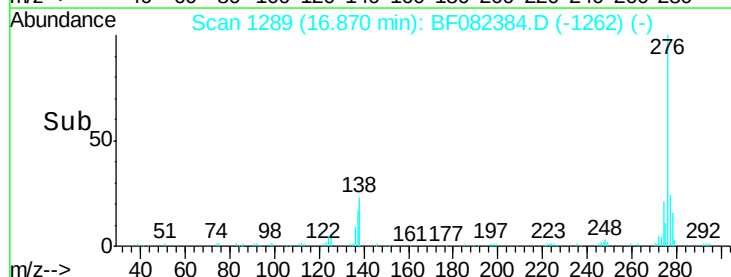
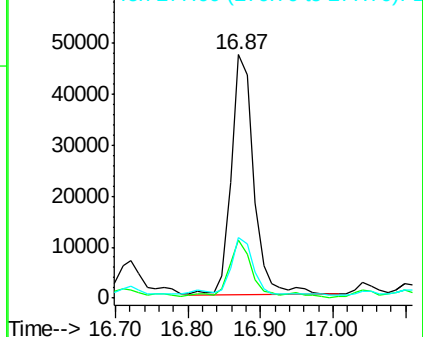
277 23.4 20.1 30.1

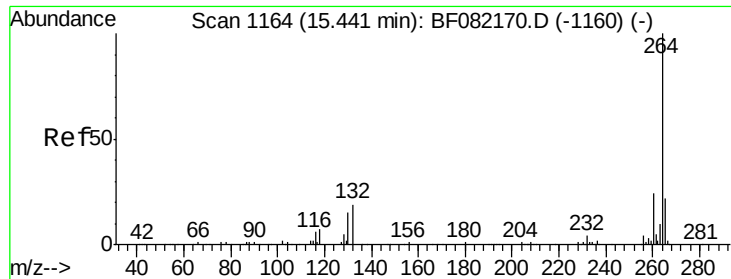


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

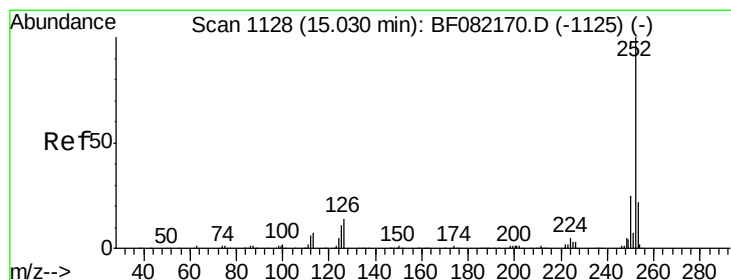
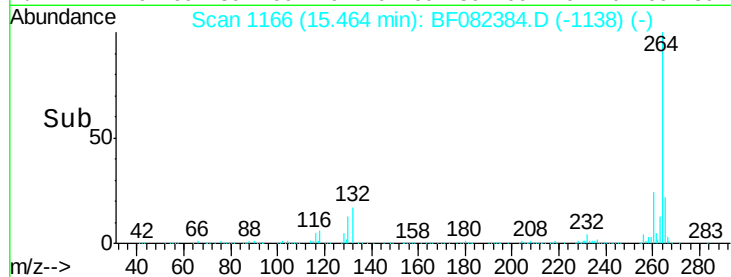
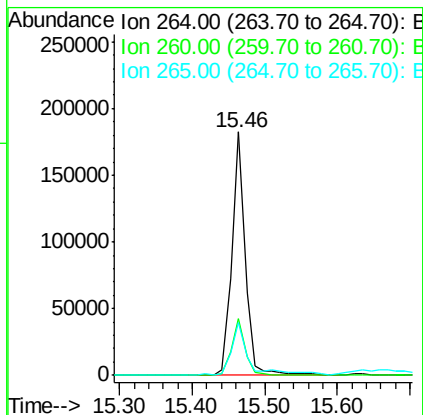
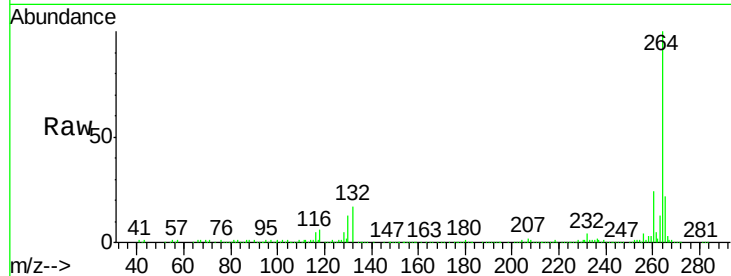




#86
Perylene-d12
Concen: 20.00 ng
RT: 15.46 min Scan# 1166
Delta R.T. 0.02 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

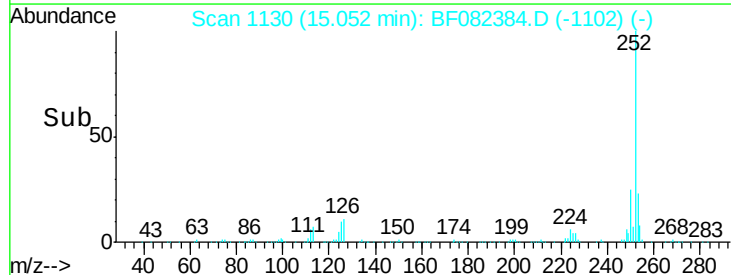
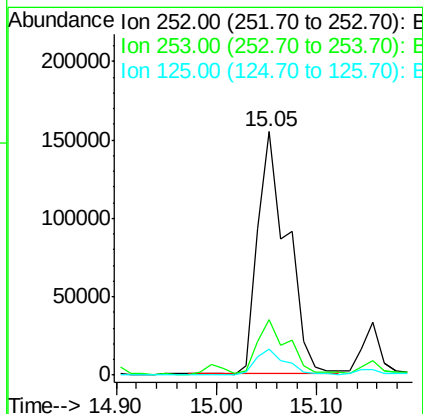
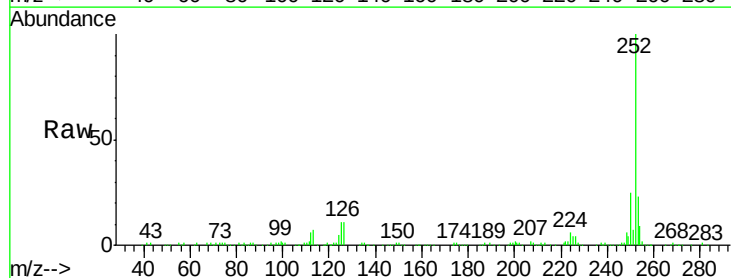
Instrument :
BNA_F
ClientSampleId :
TK1-5-20151015DL

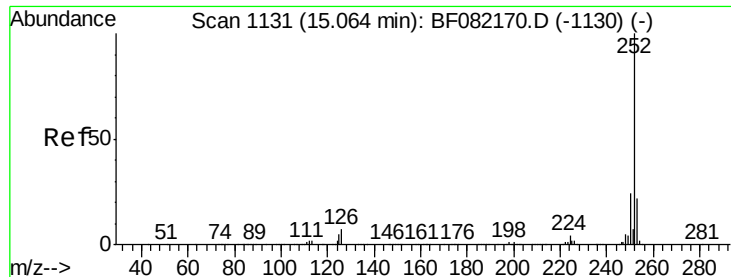
Tgt Ion: 264 Resp: 234828
Ion Ratio Lower Upper
264 100
260 23.5 19.0 28.6
265 21.7 17.3 25.9



#87
Benzo(b)fluoranthene
Concen: 22.07 ng
RT: 15.05 min Scan# 1130
Delta R.T. 0.02 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

Tgt Ion: 252 Resp: 315260
Ion Ratio Lower Upper
252 100
253 22.9 18.0 27.0
125 10.7 8.6 12.8

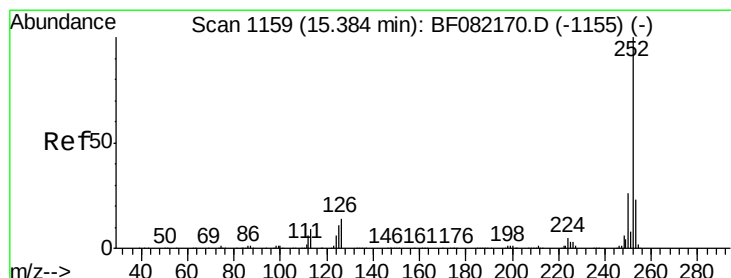
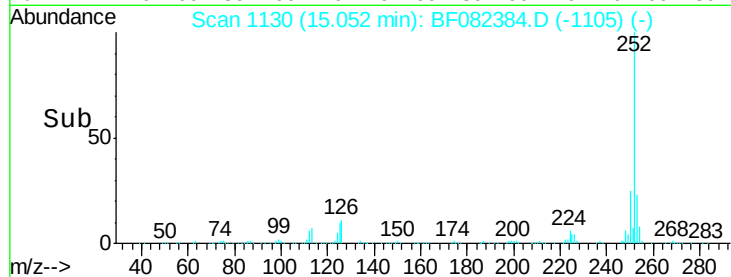
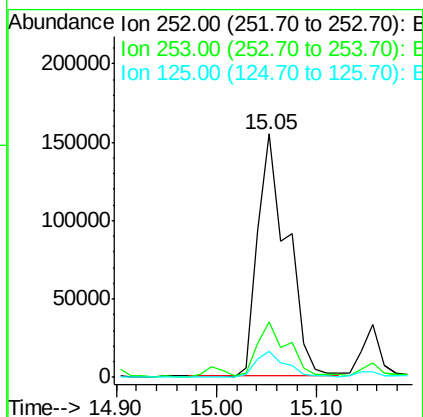
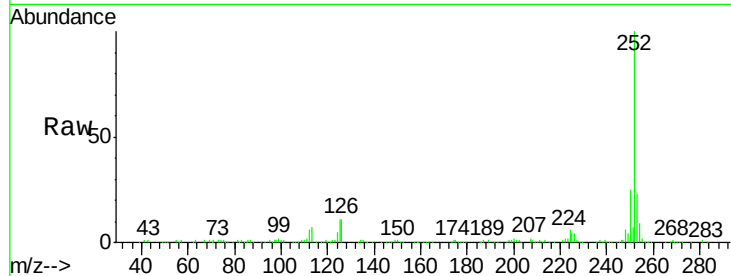




#88
Benzo(k)fluoranthene
Concen: 26.25 ng
RT: 15.05 min Scan# 1130
Delta R.T. -0.01 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

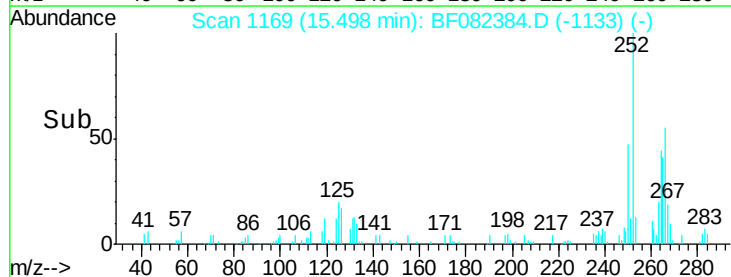
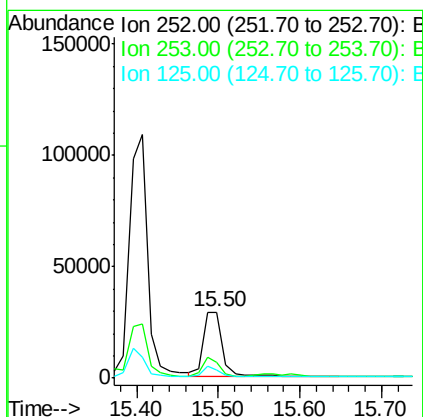
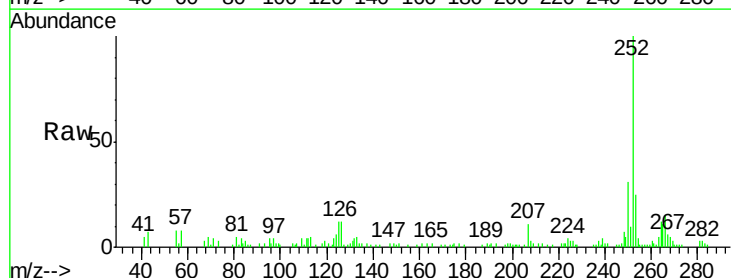
Instrument :
BNA_F
ClientSampleId :
TK1-5-20151015DL

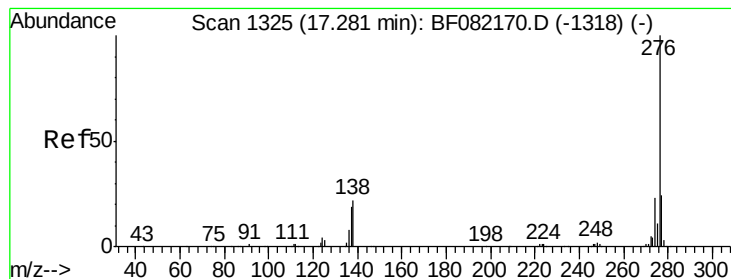
Tgt Ion	Ratio	Lower	Upper
252	100		
253	22.9	17.8	26.6
125	10.7	6.7	10.1#



#89
Benzo(a)pyrene
Concen: 4.07 ng
RT: 15.50 min Scan# 1169
Delta R.T. 0.11 min
Lab File: BF082384.D
Acq: 20 Oct 2015 5:59

Tgt Ion	Ratio	Lower	Upper
252	100		
253	24.9	18.2	27.2
125	11.7	8.9	13.3





#91

Benzo(g,h,i)perylene

Concen: 9.62 ng

RT: 17.30 min Scan# 1327

Delta R.T. 0.02 min

Lab File: BF082384.D

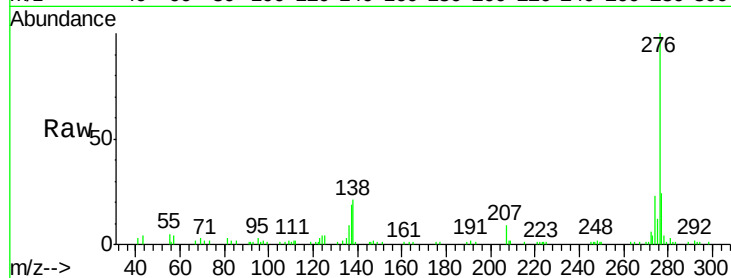
Acq: 20 Oct 2015 5:59

Instrument :

BNA_F

ClientSampleId :

TK1-5-20151015DL



Tgt Ion:	276	Resp:	94032
Ion	Ratio	Lower	Upper
276	100		
277	24.5	18.8	28.2
138	21.0	17.4	26.2

