

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101715\
 Data File : BF082332.D
 Acq On : 16 Oct 2015 18:18
 Operator : UM/IZ
 Sample : G4051-06 10X
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TK1-6-20151015

Quant Time: Oct 17 01:15:03 2015
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF101015.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Oct 17 01:08:23 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.89	152	53589	20.00	ng	0.06
21) Naphthalene-d8	8.18	136	244076	20.00	ng	0.06
38) Acenaphthene-d10	9.93	164	134748	20.00	ng	0.05
63) Phenanthrene-d10	11.42	188	277227	20.00	ng	0.05
75) Chrysene-d12	14.12	240	243136	20.00	ng	0.05
86) Perylene-d12	15.67	264	220110	20.00	ng	0.08

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
5) 2-Fluorophenol	5.50	112	15679	5.90	ng	0.07
7) Phenol-d6	6.54	99	18224	5.27	ng	0.06
23) Nitrobenzene-d5	7.46	82	10002	2.75	ng	0.05
41) 2,4,6-Tribromophenol	10.72	330	14639	11.58	ng	0.03
44) 2-Fluorobiphenyl	9.26	172	30662	3.77	ng	0.05
78) Terphenyl-d14	13.01	244	88615	9.66	ng	0.05

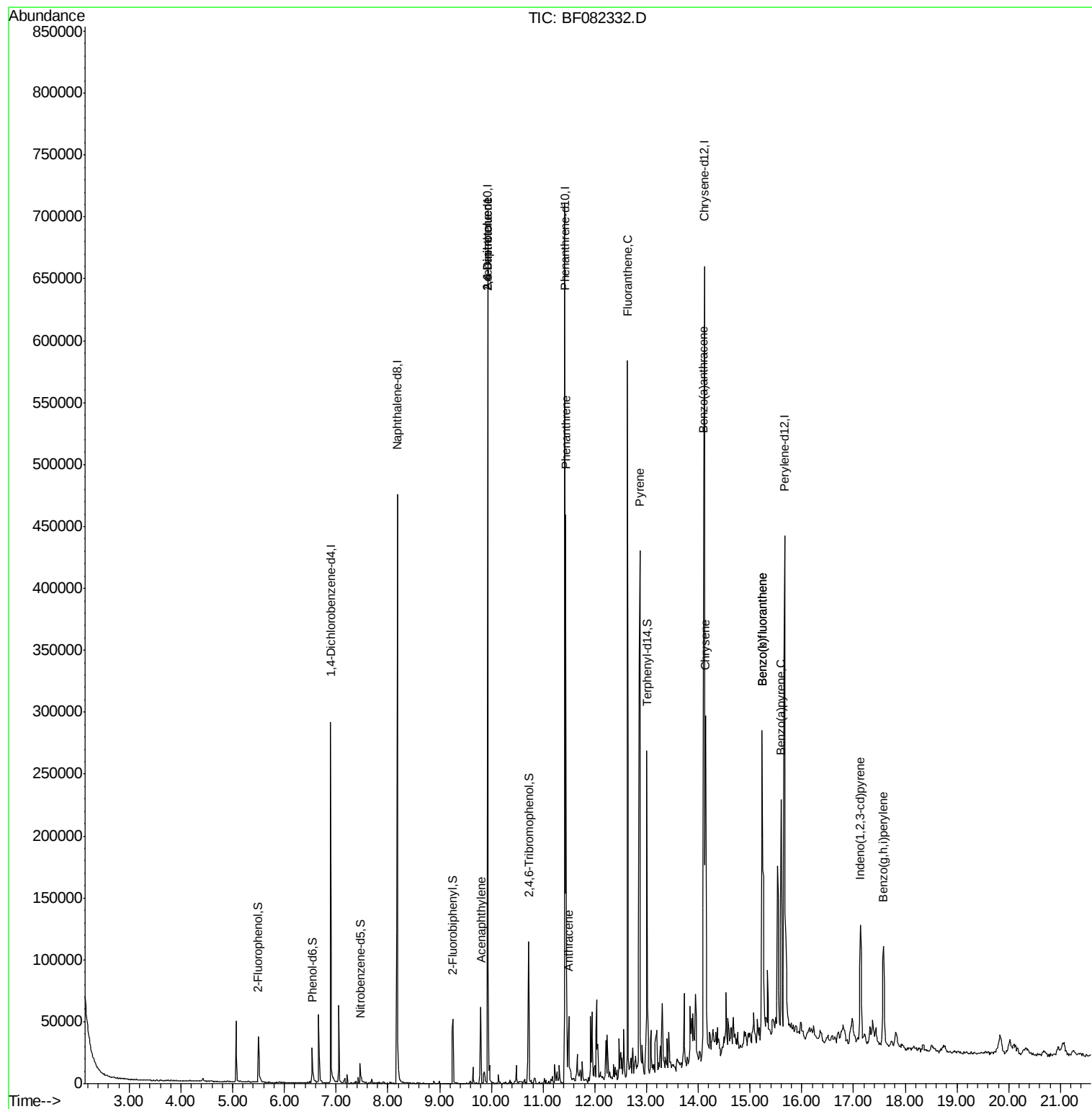
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
48) Acenaphthylene	9.79	152	29904	2.37	ng	98
50) 2,6-Dinitrotoluene	9.93	165	16426	8.20	ng	# 30
55) 4-Nitrophenol	10.14	139	1286	Below Cal		# 11
56) 2,4-Dinitrotoluene	9.93	165	16426	6.56	ng	# 21
70) Phenanthrene	11.44	178	177112	13.03	ng	99
71) Anthracene	11.50	178	35920	2.57	ng	98
74) Fluoranthene	12.63	202	277689	19.03	ng	97
77) Pyrene	12.87	202	243492	16.88	ng	97
80) Benzo(a)anthracene	14.10	228	109132	8.63	ng	96
82) Chrysene	14.14	228	99905	7.49	ng	99
85) Indeno(1,2,3-cd)pyrene	17.13	276	73549	6.94	ng	92
87) Benzo(b)fluoranthene	15.24	252	200097	14.94	ng	98
88) Benzo(k)fluoranthene	15.24	252	200097	17.78	ng	99
89) Benzo(a)pyrene	15.60	252	94907	8.25	ng	99
91) Benzo(a,h,i)perylene	17.58	276	72128	7.87	ng	97

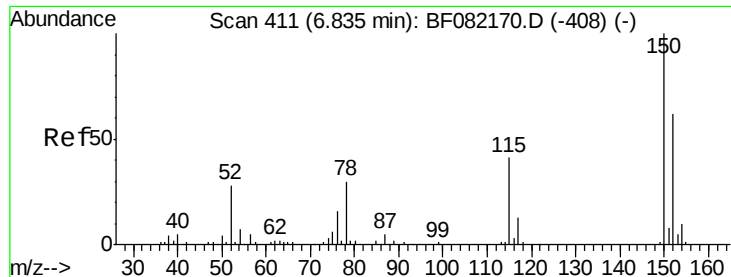
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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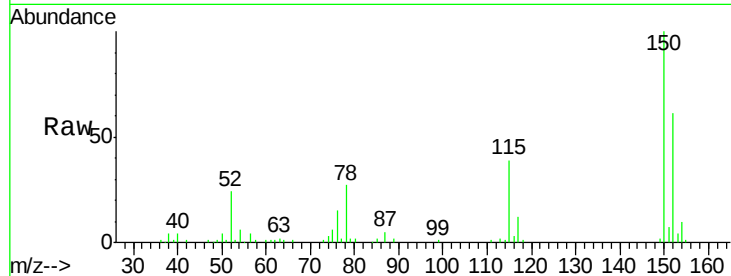


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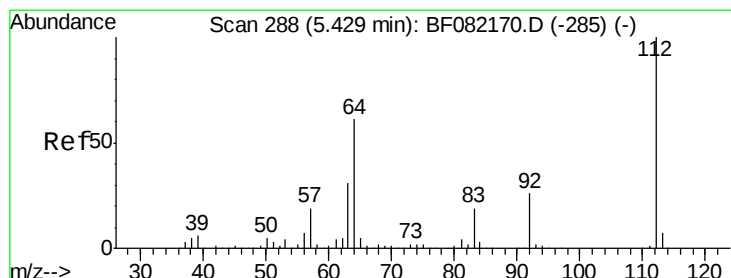
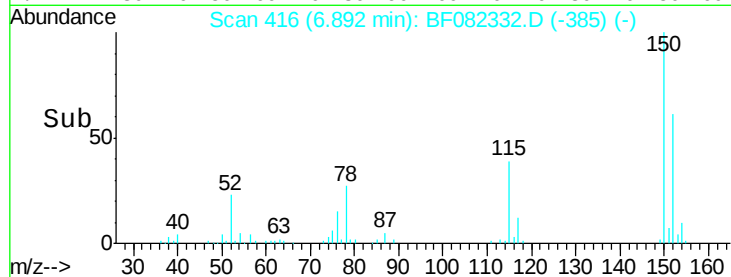
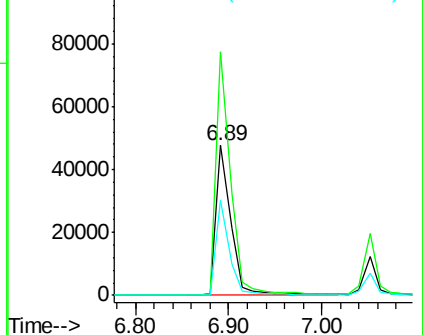
1,4-Dichlorobenzene-d4
Concen: 20.00 ng
RT: 6.89 min Scan# 416
Delta R.T. 0.06 min
Lab File: BF082332.D
Acq: 16 Oct 2015 18:18

Instrument :
BNA_F
ClientSampleId :
TK1-6-20151015

Tot Ion:152 Resp: 53589
Ion Ratio Lower Upper
152 100
150 162.7 129.0 193.4
115 63.5 52.1 78.1



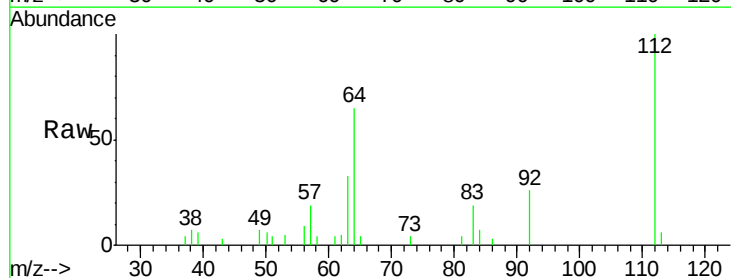
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



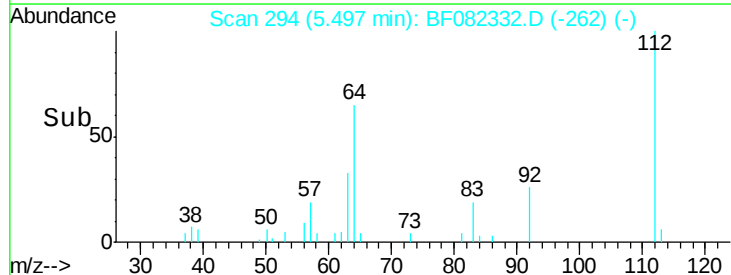
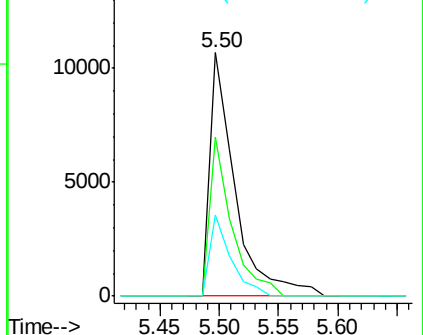
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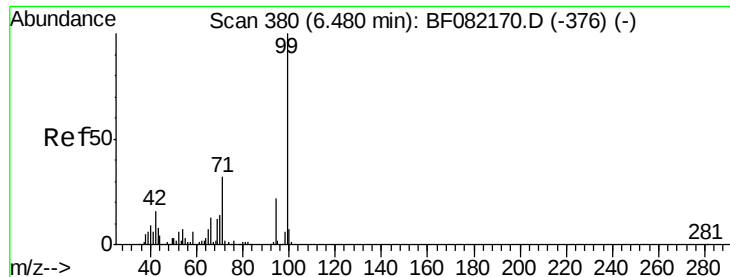
2-Fluorophenol
Concen: 5.90 ng
RT: 5.50 min Scan# 294
Delta R.T. 0.07 min
Lab File: BF082332.D
Acq: 16 Oct 2015 18:18

Tgt Ion:112 Resp: 15679
Ion Ratio Lower Upper
112 100
64 65.2 48.6 73.0
63 33.1 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: 5.27 ng

RT: 6.54 min Scan# 385

Delta R.T. 0.06 min

Lab File: BF082332.D

Acq: 16 Oct 2015 18:18

Instrument :

BNA_F

ClientSampleId :

TK1-6-20151015

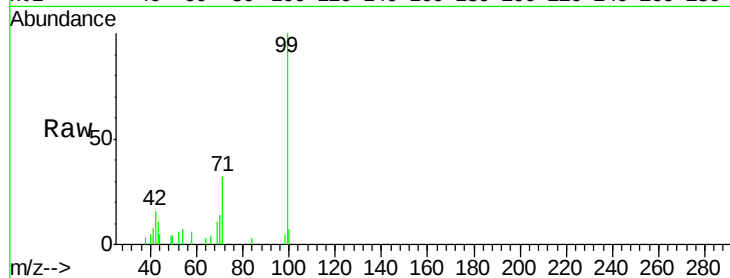
Tot Ion: 99 Resp: 18224

Ion Ratio Lower Upper

99 100

42 15.8 13.2 19.8

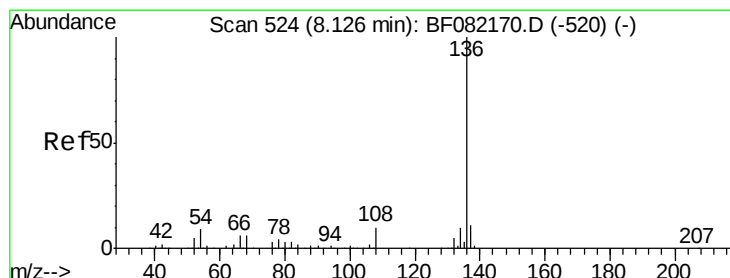
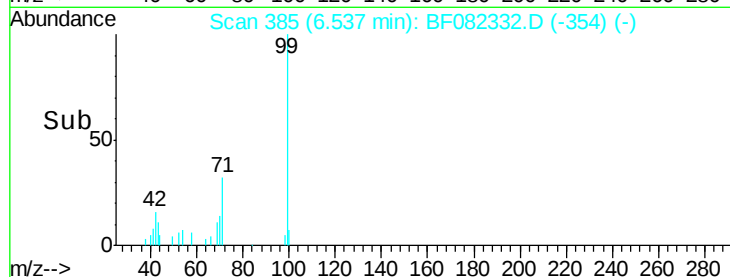
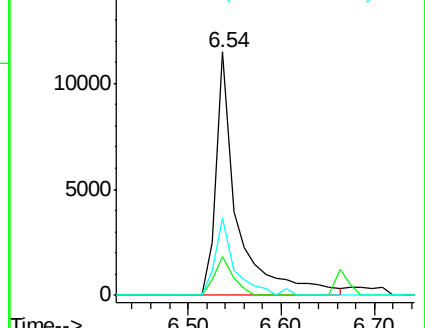
71 31.9 25.6 38.4



Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0



#21

Naphthalene-d8

Concen: 20.00 ng

RT: 8.18 min Scan# 529

Delta R.T. 0.06 min

Lab File: BF082332.D

Acq: 16 Oct 2015 18:18

Tgt Ion: 136 Resp: 244076

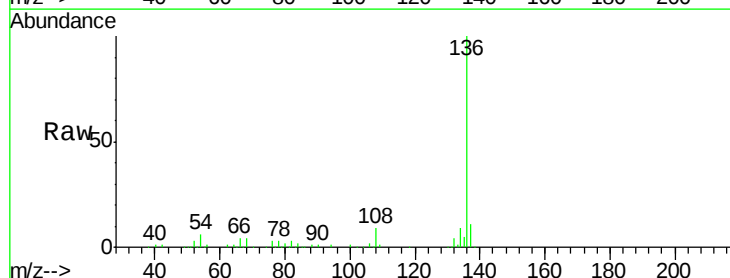
Ion Ratio Lower Upper

136 100

137 10.5 9.0 13.6

54 6.2 7.5 11.3#

68 4.4 4.6 7.0#

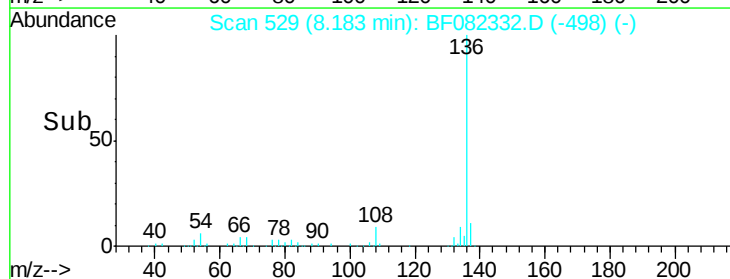
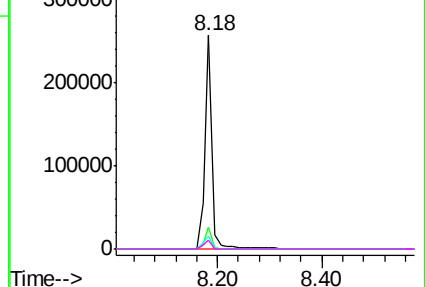


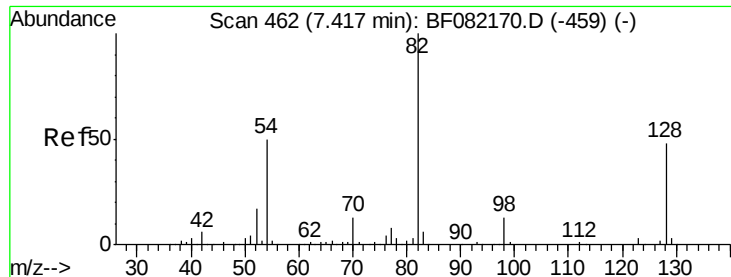
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0

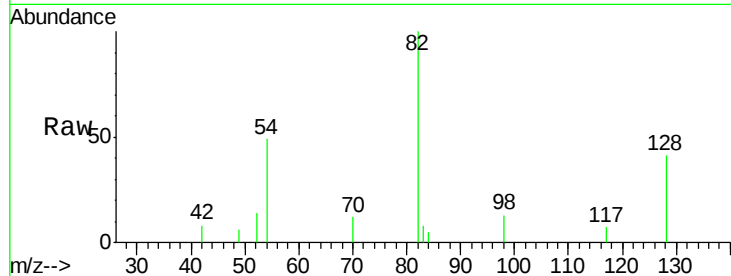




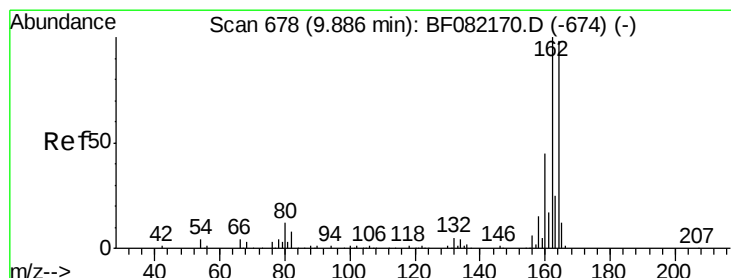
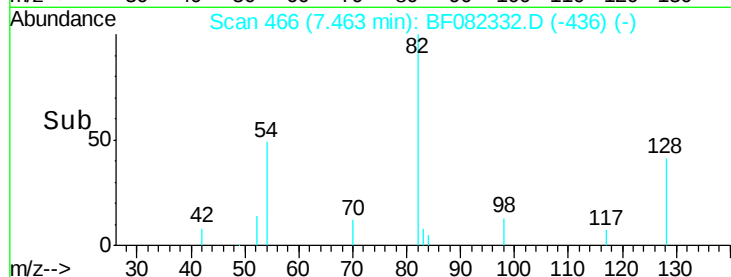
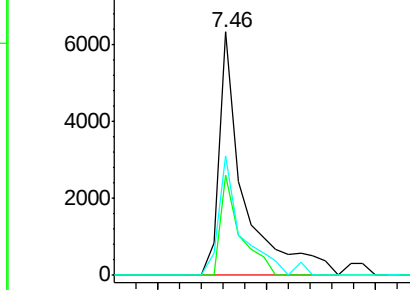
#23
 Nitrobenzene-d5
 Concen: 2.75 ng
 RT: 7.46 min Scan# 466
 Delta R.T. 0.05 min
 Lab File: BF082332.D
 Acq: 16 Oct 2015 18:18

Instrument :
 BNA_F
 ClientSampleId :
 TK1-6-20151015

Tot Ion: 82 Resp: 10002
 Ion Ratio Lower Upper
 82 100
 128 41.2 38.7 58.1
 54 49.0 40.1 60.1

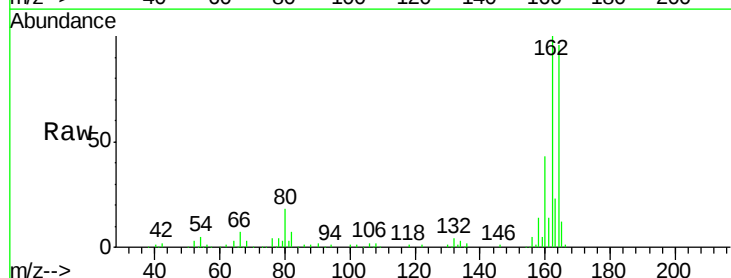


Abundance Ion 82.00 (81.70 to 82.70): BF0
 Ion 128.00 (127.70 to 128.70): E
 Ion 54.00 (53.70 to 54.70): BF0

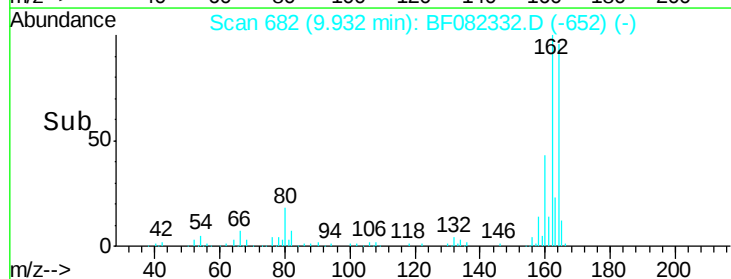
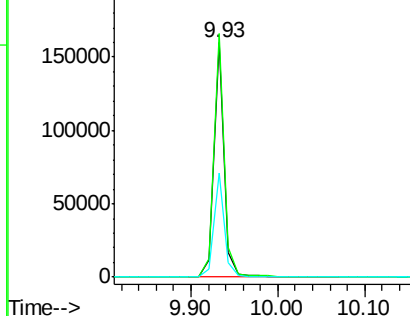


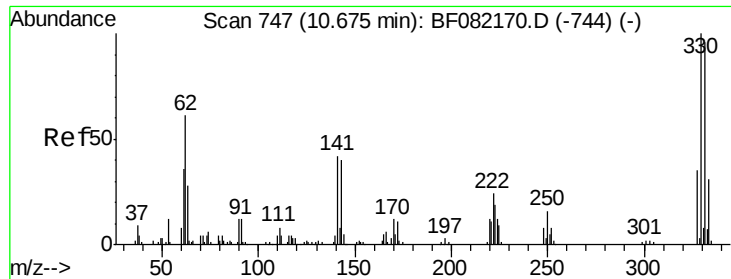
#38
 Acenaphthene-d10
 Concen: 20.00 ng
 RT: 9.93 min Scan# 682
 Delta R.T. 0.05 min
 Lab File: BF082332.D
 Acq: 16 Oct 2015 18:18

Tgt Ion:164 Resp: 134748
 Ion Ratio Lower Upper
 164 100
 162 103.8 81.6 122.4
 160 44.2 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

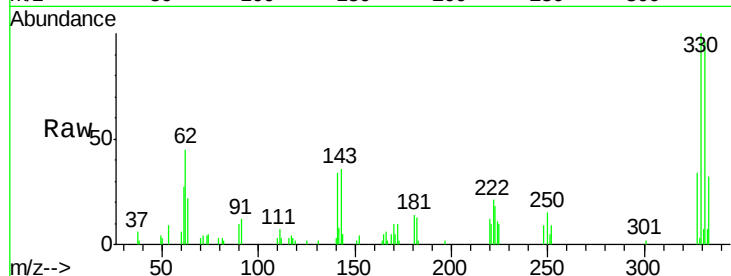




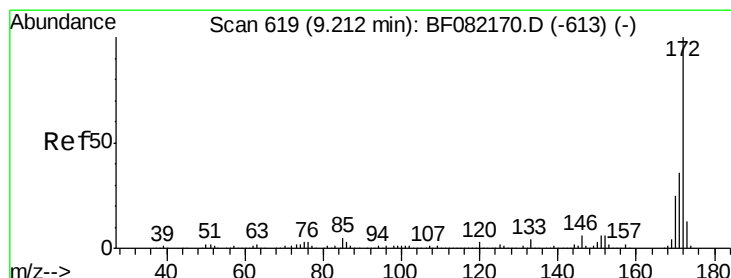
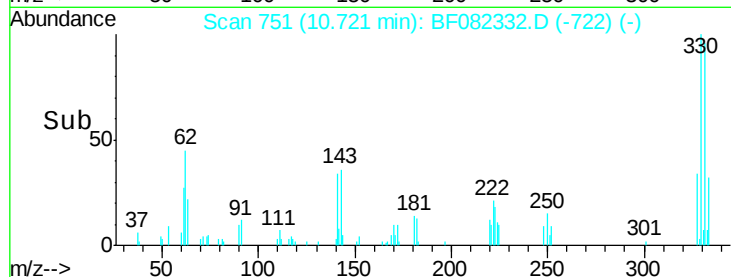
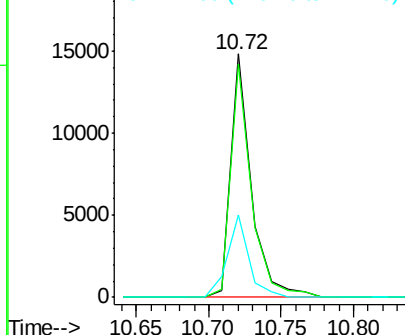
#41
 2,4,6-Tribromophenol
 Concen: 11.58 ng
 RT: 10.72 min Scan# 751
 Delta R.T. 0.03 min
 Lab File: BF082332.D
 Acq: 16 Oct 2015 18:18

Instrument :
 BNA_F
 ClientSampleId :
 TK1-6-20151015

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	77.1	115.7
141	35.3	29.8	44.8

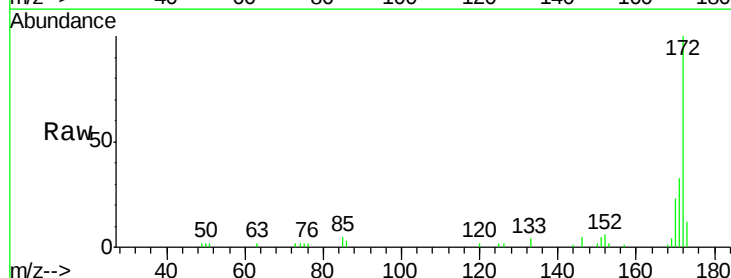


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

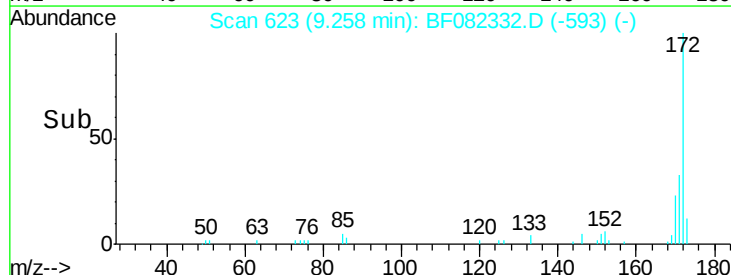
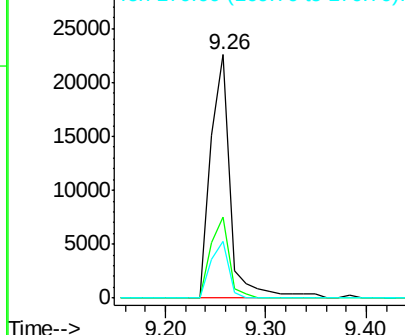


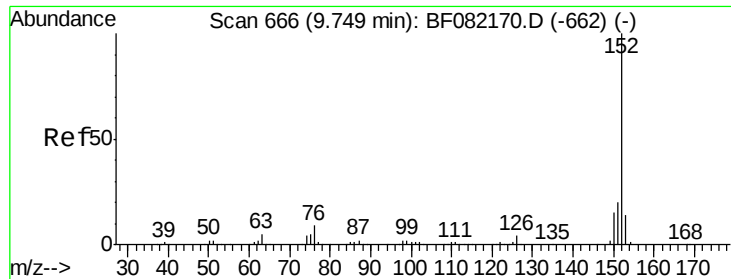
#44
 2-Fluorobiphenyl
 Concen: 3.77 ng
 RT: 9.26 min Scan# 623
 Delta R.T. 0.05 min
 Lab File: BF082332.D
 Acq: 16 Oct 2015 18:18

Tgt Ion	Ratio	Lower	Upper
172	100		
171	33.1	28.6	42.8
170	23.3	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





#48

Acenaphthylene

Concen: 2.37 ng

RT: 9.79 min Scan# 670

Delta R.T. 0.05 min

Lab File: BF082332.D

Acq: 16 Oct 2015 18:18

Instrument :

BNA_F

ClientSampleId :

TK1-6-20151015

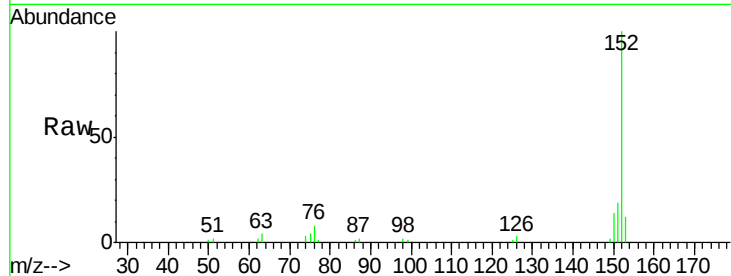
Tot Ion:152 Resp: 29904

Ion Ratio Lower Upper

152 100

151 19.4 16.4 24.6

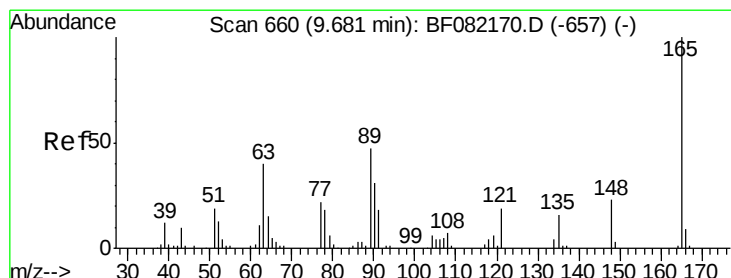
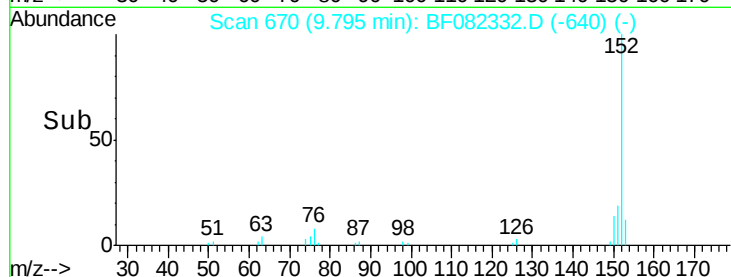
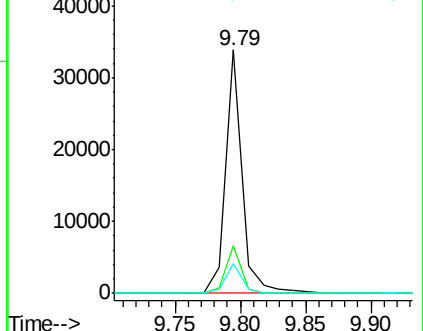
153 12.4 10.8 16.2



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#50

2,6-Dinitrotoluene

Concen: 8.20 ng

RT: 9.93 min Scan# 682

Delta R.T. 0.25 min

Lab File: BF082332.D

Acq: 16 Oct 2015 18:18

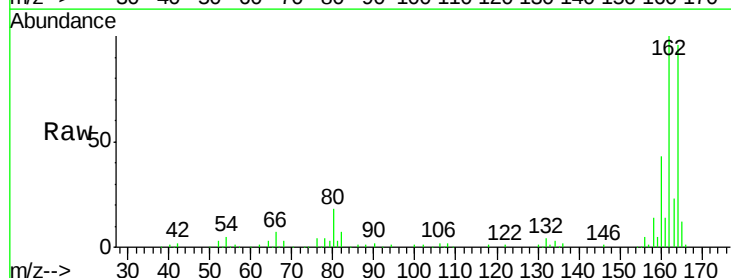
Tgt Ion:165 Resp: 16426

Ion Ratio Lower Upper

165 100

63 0.0 36.7 55.1#

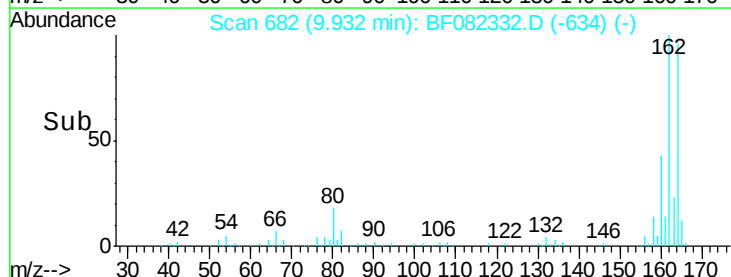
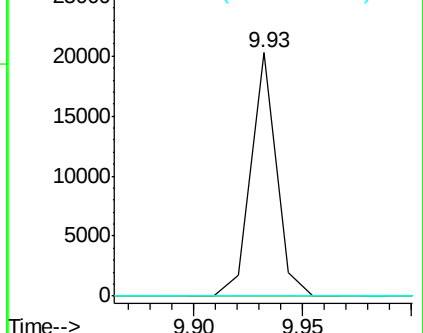
89 0.0 37.8 56.6#

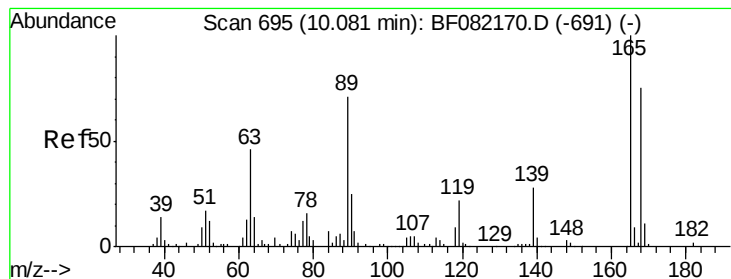


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

Ion 89.00 (88.70 to 89.70): BF0

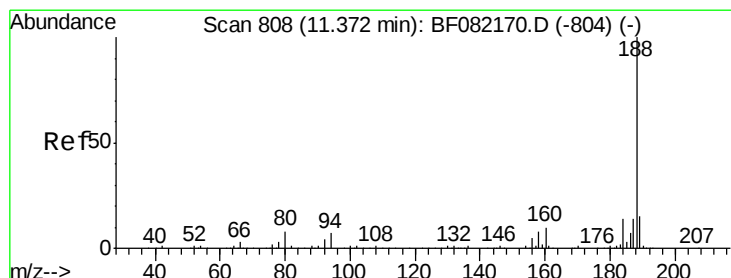
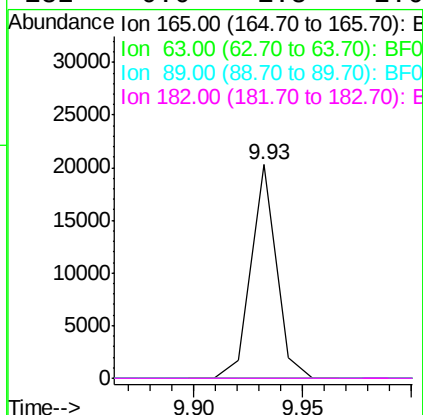
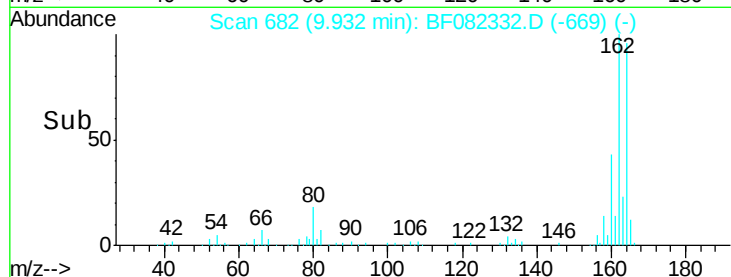
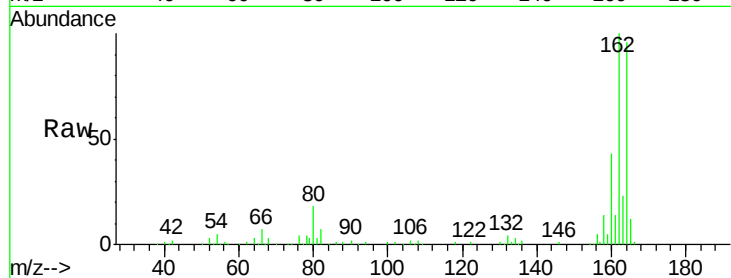




#56
 2,4-Dinitrotoluene
 Concen: 6.56 ng
 RT: 9.93 min Scan# 682
 Delta R.T. -0.15 min
 Lab File: BF082332.D
 Acq: 16 Oct 2015 18:18

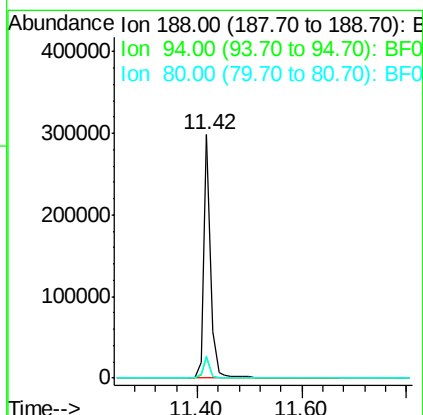
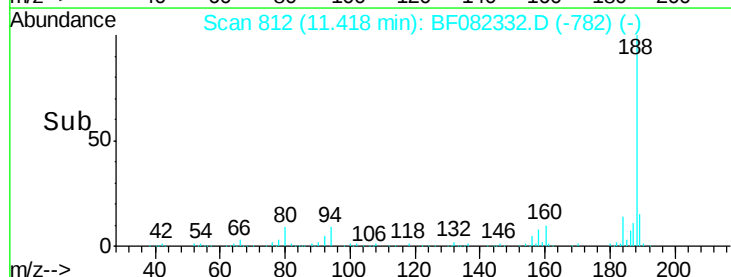
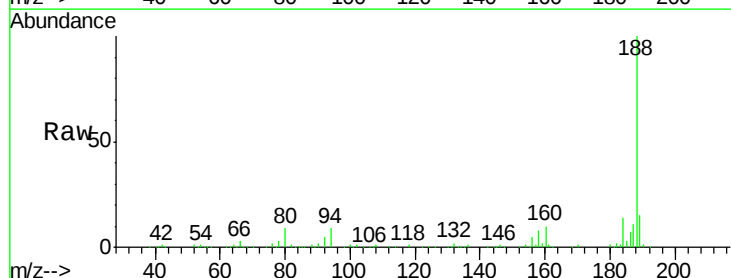
Instrument :
 BNA_F
 ClientSampleId :
 TK1-6-20151015

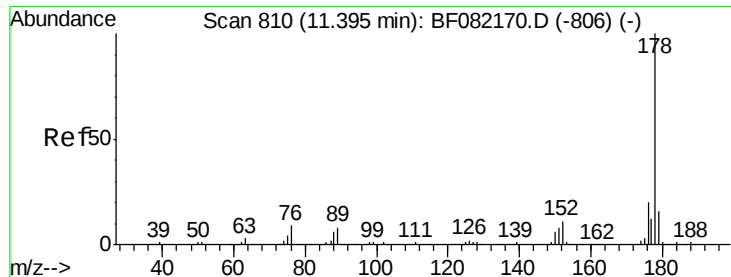
Tot Ion:	165	Resp:	16426
Ion	Ratio	Lower	Upper
165	100		
63	0.0	38.6	58.0#
89	0.0	57.0	85.6#
182	0.0	1.8	2.6#



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.42 min Scan# 812
 Delta R.T. 0.05 min
 Lab File: BF082332.D
 Acq: 16 Oct 2015 18:18

Tgt Ion:	188	Resp:	277227
Ion	Ratio	Lower	Upper
188	100		
94	8.6	5.8	8.6
80	9.3	6.4	9.6

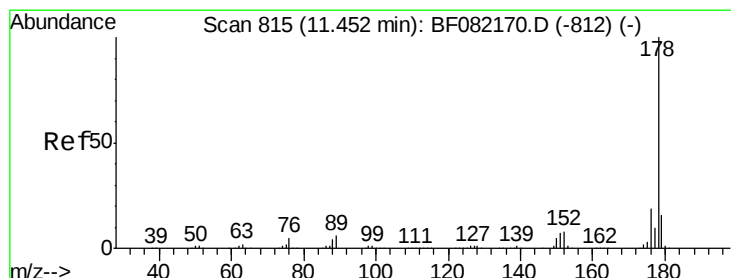
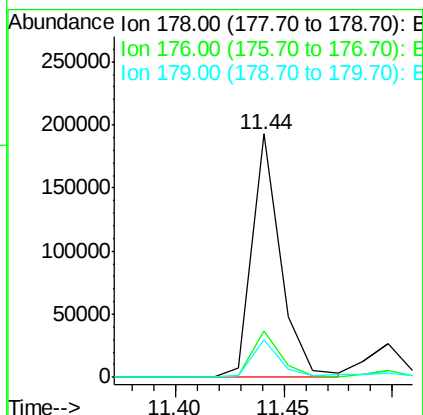
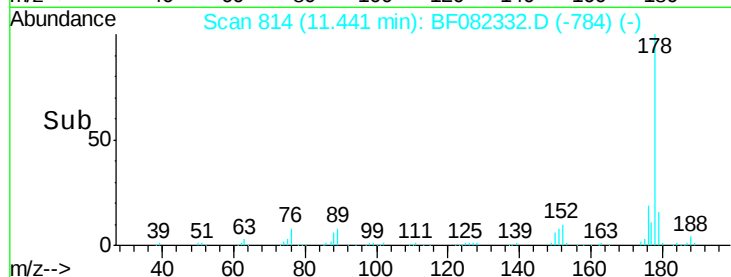
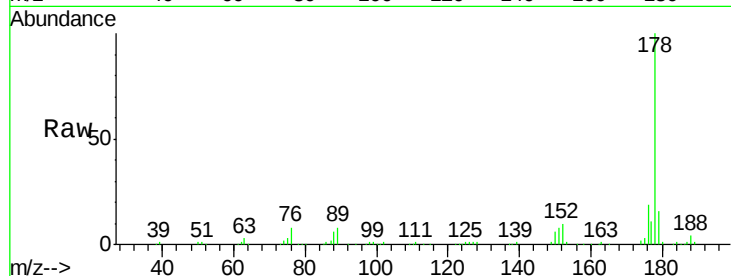




#70
Phenanthrene
Concen: 13.03 ng
RT: 11.44 min Scan# 814
Delta R.T. 0.05 min
Lab File: BF082332.D
Acq: 16 Oct 2015 18:18

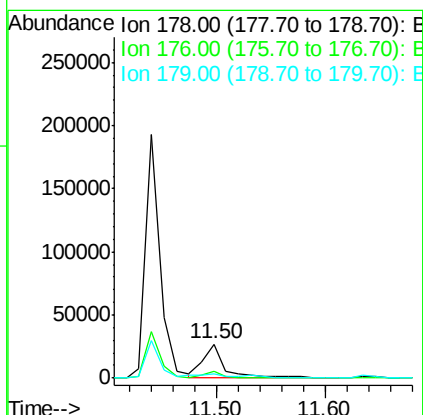
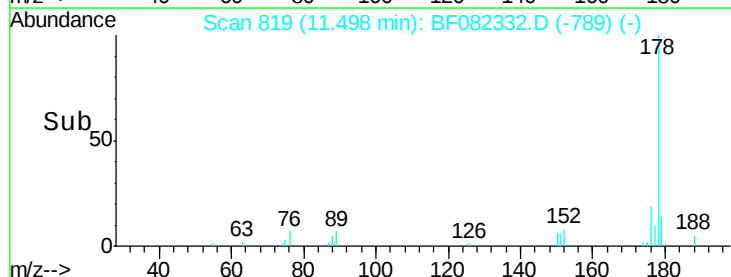
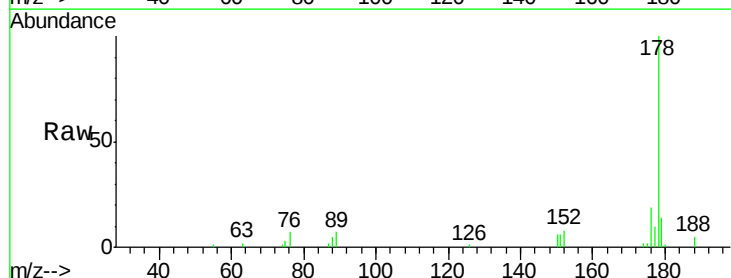
Instrument :
BNA_F
ClientSampleId :
TK1-6-20151015

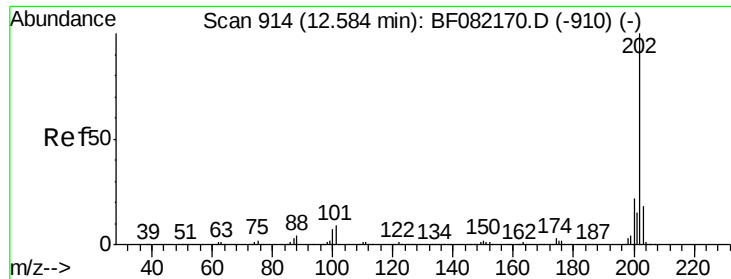
Tot Ion:178 Resp: 177112
Ion Ratio Lower Upper
178 100
176 19.0 16.0 24.0
179 15.6 12.6 19.0



#71
Anthracene
Concen: 2.57 ng
RT: 11.50 min Scan# 819
Delta R.T. 0.05 min
Lab File: BF082332.D
Acq: 16 Oct 2015 18:18

Tgt Ion:178 Resp: 35920
Ion Ratio Lower Upper
178 100
176 18.6 15.4 23.0
179 14.3 12.5 18.7





#74

Fluoranthene

Concen: 19.03 ng

RT: 12.63 min Scan# 918

Delta R.T. 0.03 min

Lab File: BF082332.D

Acq: 16 Oct 2015 18:18

Instrument :

BNA_F

ClientSampleId :

TK1-6-20151015

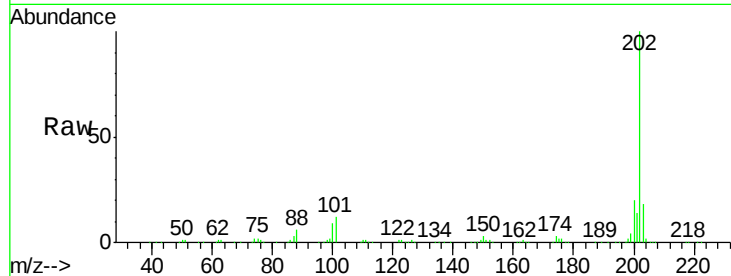
Tot Ion:202 Resp: 277689

Ion Ratio Lower Upper

202 100

101 12.0 0.0 29.3

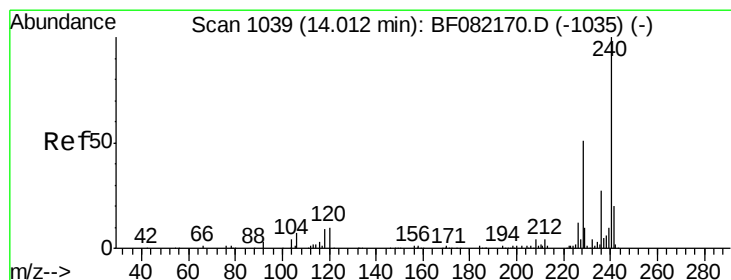
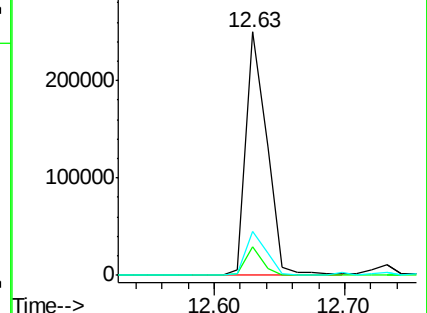
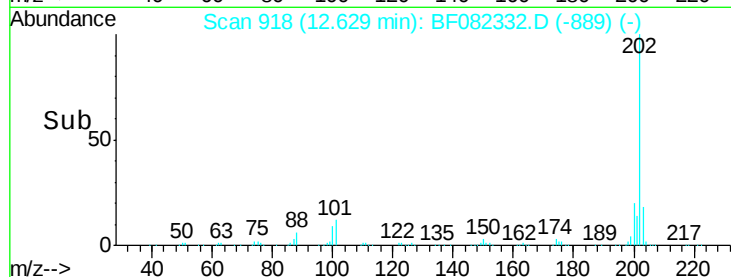
203 17.9 0.0 37.8



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: 14.12 min Scan# 1048

Delta R.T. 0.05 min

Lab File: BF082332.D

Acq: 16 Oct 2015 18:18

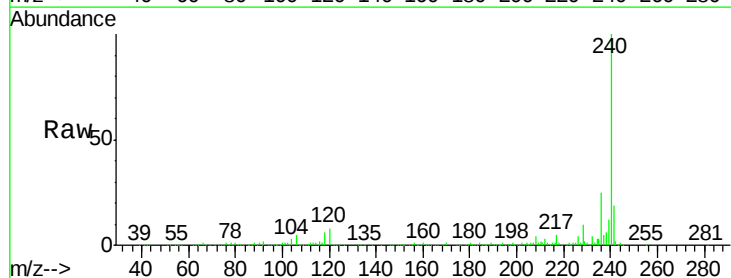
Tgt Ion:240 Resp: 243136

Ion Ratio Lower Upper

240 100

120 7.6 8.1 12.1#

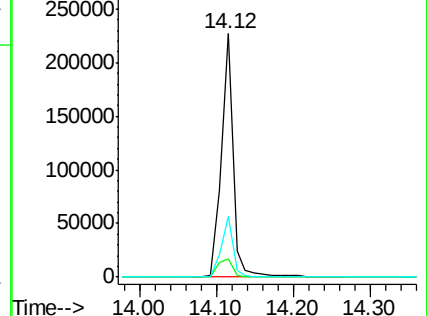
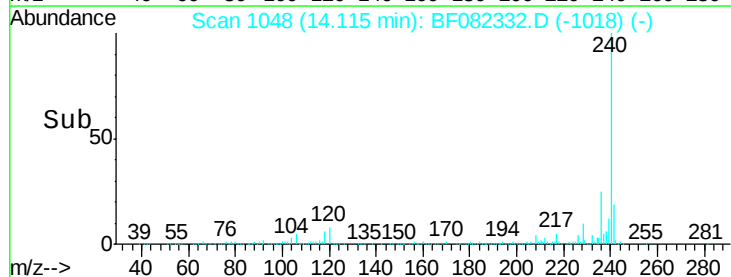
236 24.9 21.3 31.9

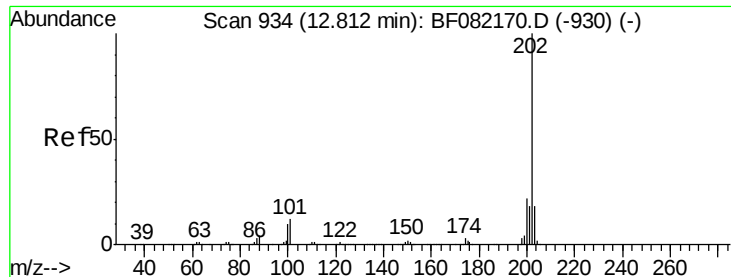


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 16.88 ng

RT: 12.87 min Scan# 939

Delta R.T. 0.05 min

Lab File: BF082332.D

Acq: 16 Oct 2015 18:18

Instrument :

BNA_F

ClientSampleId :

TK1-6-20151015

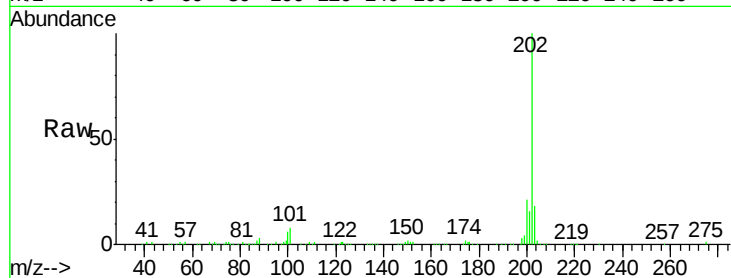
Tot Ion:202 Resp: 243492

Ion Ratio Lower Upper

202 100

200 20.5 17.9 26.9

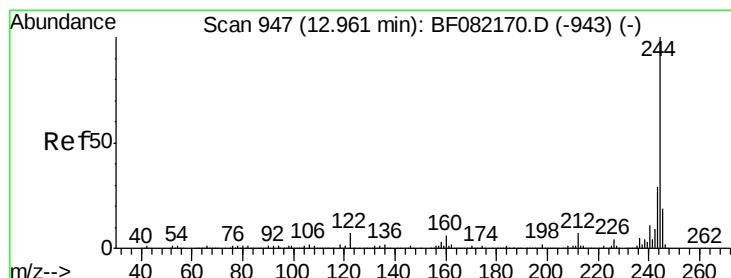
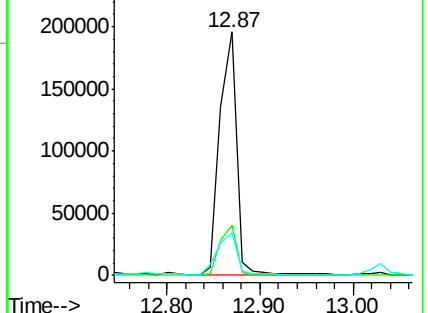
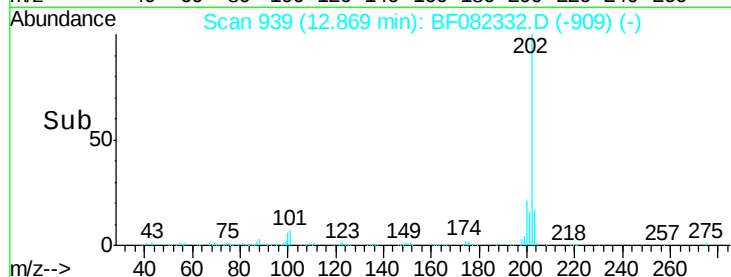
203 17.5 14.5 21.7



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: 9.66 ng

RT: 13.01 min Scan# 951

Delta R.T. 0.05 min

Lab File: BF082332.D

Acq: 16 Oct 2015 18:18

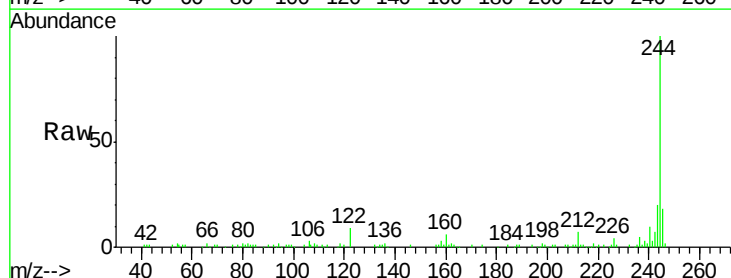
Tgt Ion:244 Resp: 88615

Ion Ratio Lower Upper

244 100

212 6.8 5.8 8.6

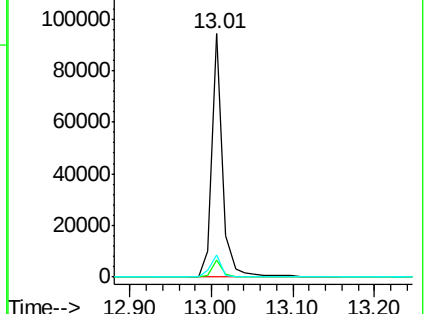
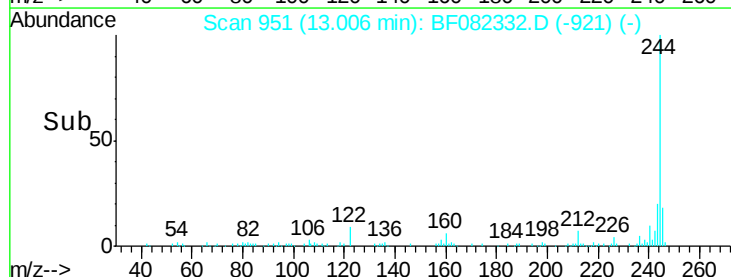
122 9.1 5.9 8.9#

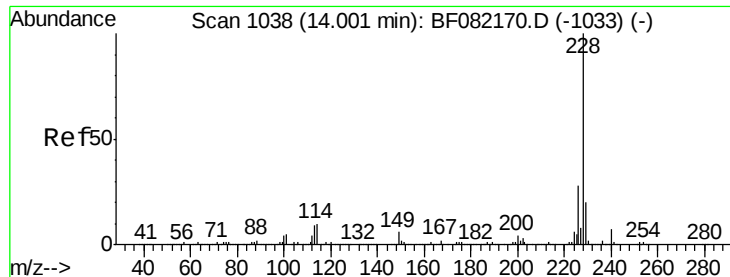


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#80

Benzo(a)anthracene

Concen: 8.63 ng

RT: 14.10 min Scan# 1047

Delta R.T. 0.05 min

Lab File: BF082332.D

Acq: 16 Oct 2015 18:18

Instrument :

BNA_F

ClientSampleId :

TK1-6-20151015

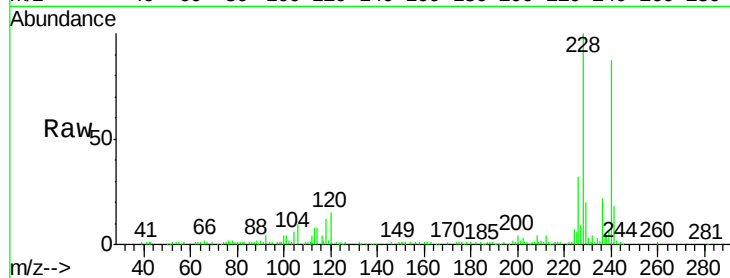
Tot Ion:228 Resp: 109132

Ion Ratio Lower Upper

228 100

226 31.9 22.3 33.5

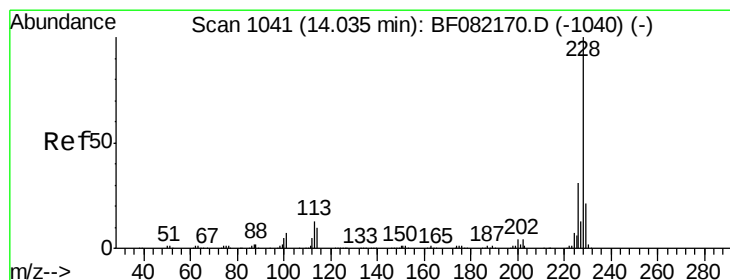
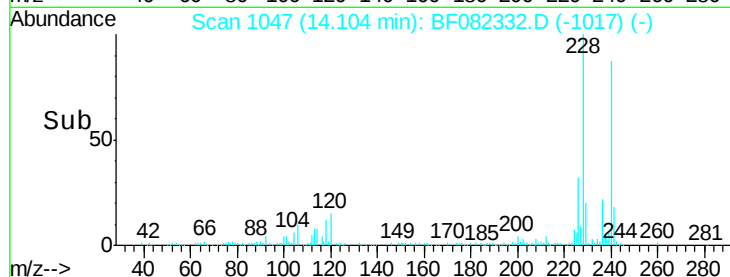
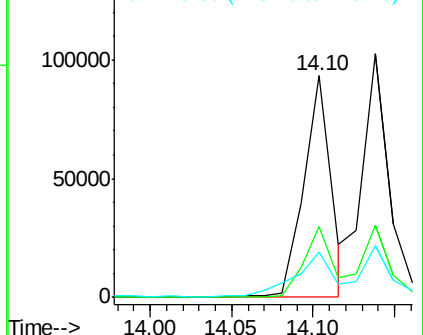
229 20.3 16.2 24.2



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: 7.49 ng

RT: 14.14 min Scan# 1050

Delta R.T. 0.05 min

Lab File: BF082332.D

Acq: 16 Oct 2015 18:18

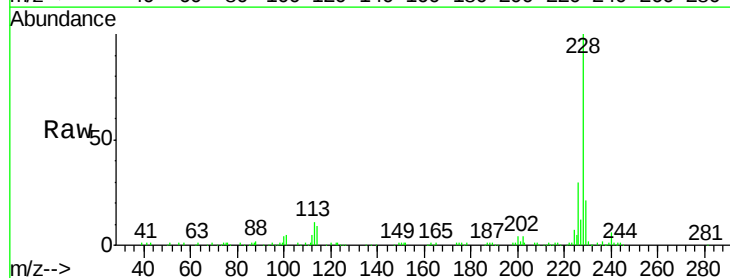
Tgt Ion:228 Resp: 99905

Ion Ratio Lower Upper

228 100

226 29.6 24.4 36.6

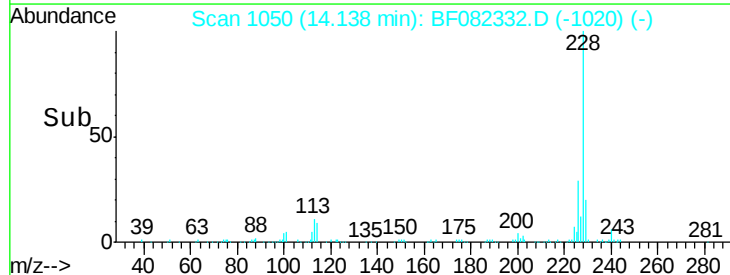
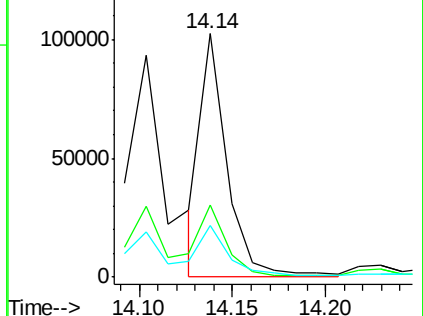
229 21.0 16.3 24.5

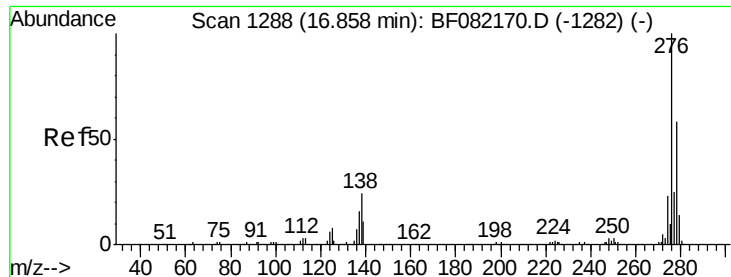


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

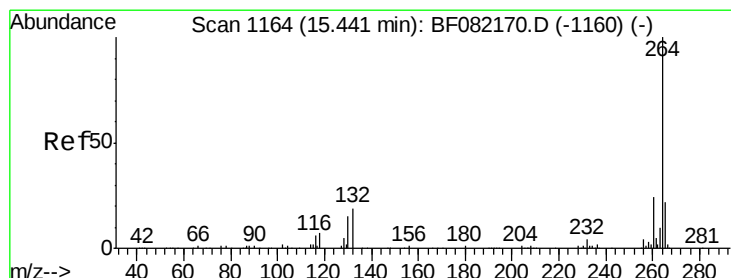
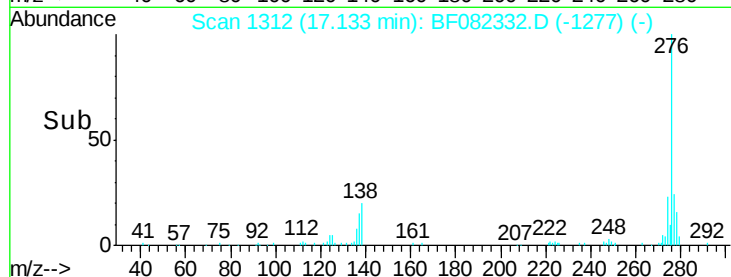
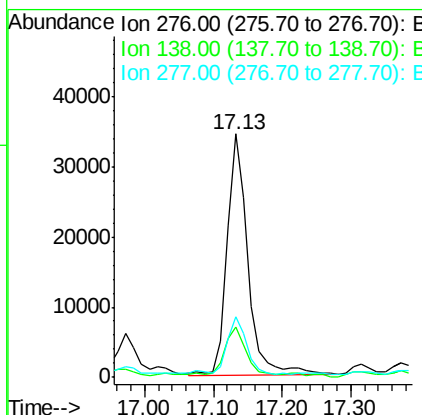
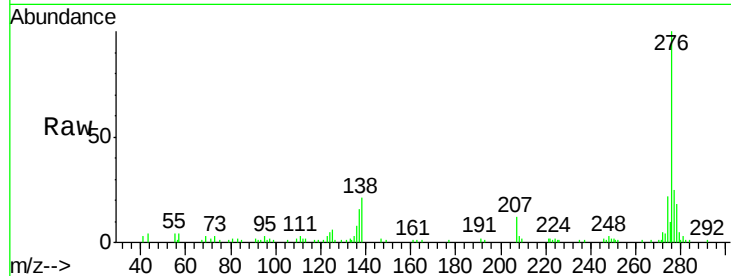




#85
Indeno(1,2,3-cd)pyrene
Concen: 6.94 ng
RT: 17.13 min Scan# 1312
Delta R.T. 0.10 min
Lab File: BF082332.D
Acq: 16 Oct 2015 18:18

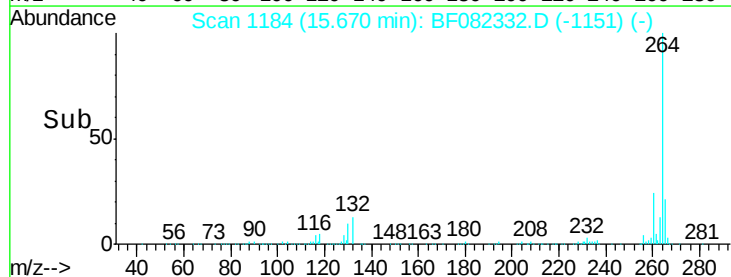
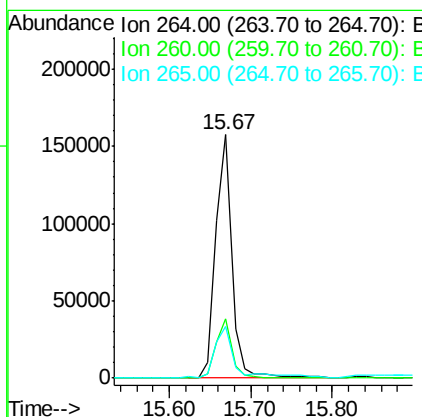
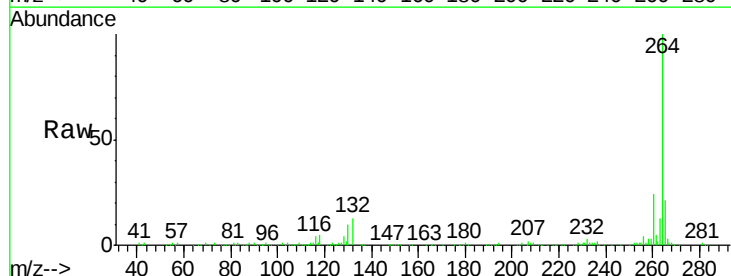
Instrument :
BNA_F
ClientSampleId :
TK1-6-20151015

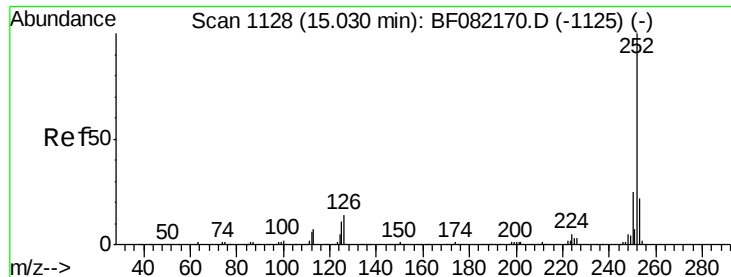
Tot Ion:276 Resp: 73549
Ion Ratio Lower Upper
276 100
138 20.0 19.7 29.5
277 21.7 20.1 30.1



#86
Perylene-d12
Concen: 20.00 ng
RT: 15.67 min Scan# 1184
Delta R.T. 0.08 min
Lab File: BF082332.D
Acq: 16 Oct 2015 18:18

Tgt Ion:264 Resp: 220110
Ion Ratio Lower Upper
264 100
260 24.2 19.0 28.6
265 21.4 17.3 25.9





#87

Benzo(b)fluoranthene

Concen: 14.94 ng

RT: 15.24 min Scan# 1146

Delta R.T. 0.07 min

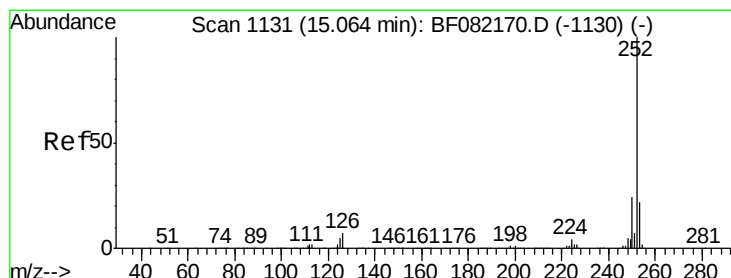
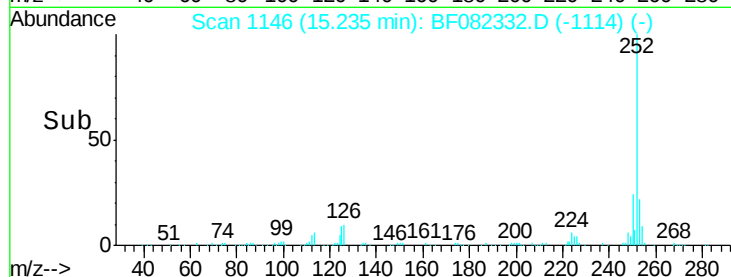
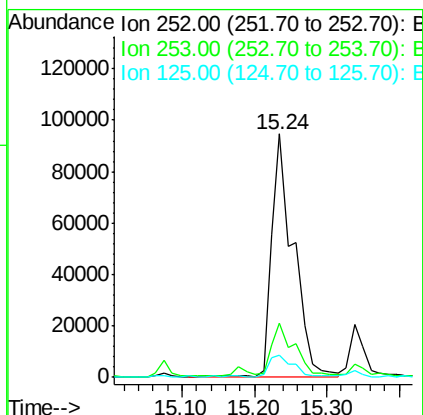
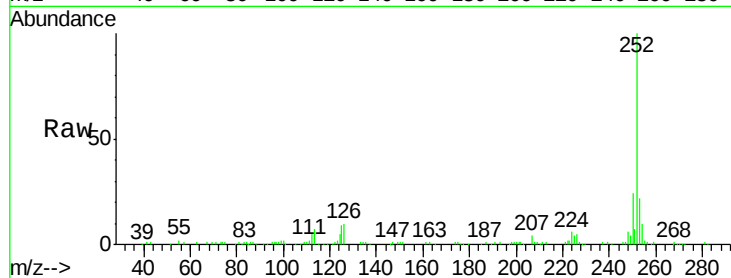
Lab File: BF082332.D

Acq: 16 Oct 2015 18:18

Instrument :
BNA_F
ClientSampleId :
TK1-6-20151015

Tot Ion:252 Resp: 200097

Ion	Ratio	Lower	Upper
252	100		
253	22.2	18.0	27.0
125	9.3	8.6	12.8



#88

Benzo(k)fluoranthene

Concen: 17.78 ng

RT: 15.24 min Scan# 1146

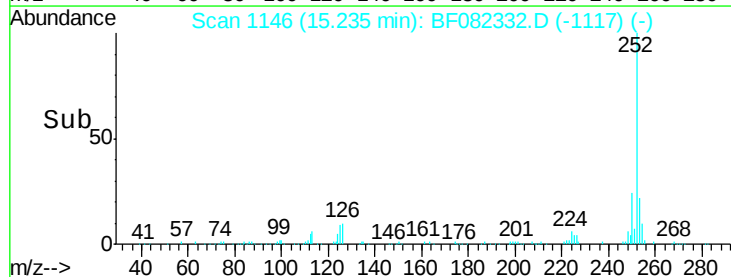
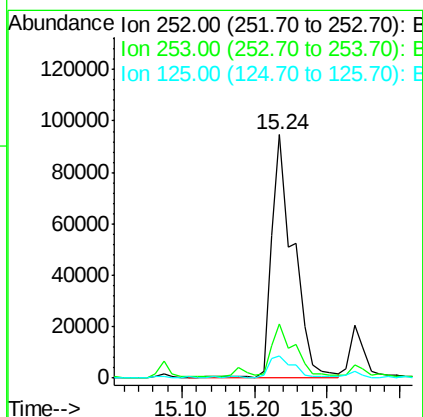
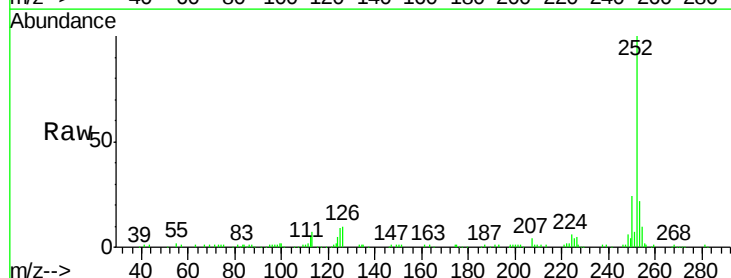
Delta R.T. 0.03 min

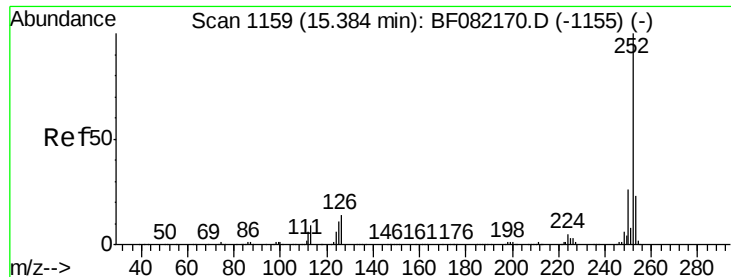
Lab File: BF082332.D

Acq: 16 Oct 2015 18:18

Tgt Ion:252 Resp: 200097

Ion	Ratio	Lower	Upper
252	100		
253	22.2	17.8	26.6
125	9.3	6.7	10.1

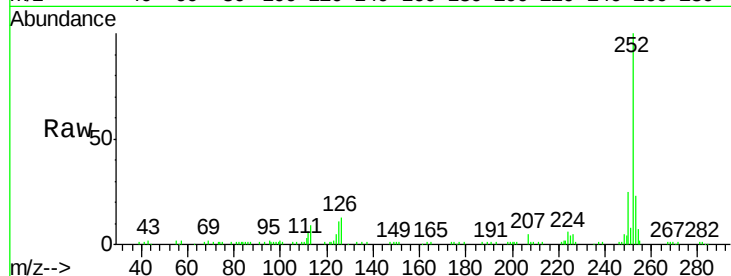




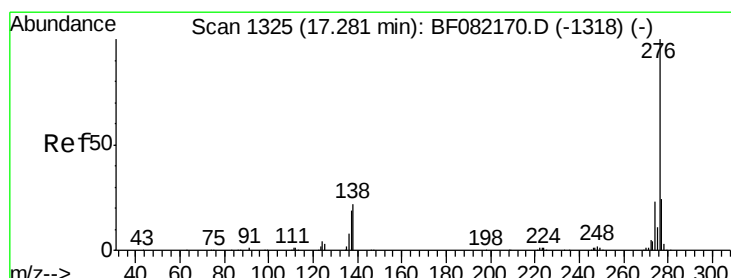
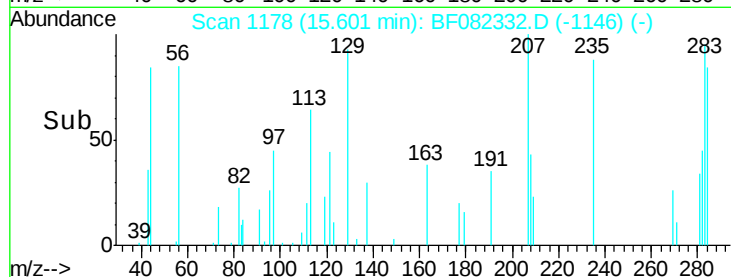
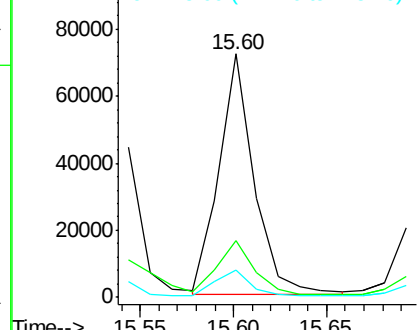
#89
Benzo(a)pyrene
Concen: 8.25 ng
RT: 15.60 min Scan# 1178
Delta R.T. 0.07 min
Lab File: BF082332.D
Acq: 16 Oct 2015 18:18

Instrument :
BNA_F
ClientSampleId :
TK1-6-20151015

Tot Ion:252 Resp: 94907
Ion Ratio Lower Upper
252 100
253 23.1 18.2 27.2
125 11.0 8.9 13.3

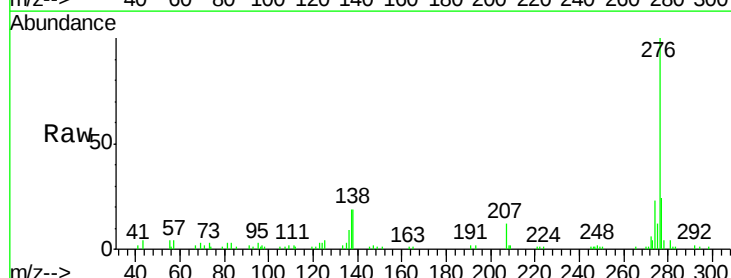


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



#91
Benzo(g,h,i)perylene
Concen: 7.87 ng
RT: 17.58 min Scan# 1351
Delta R.T. 0.11 min
Lab File: BF082332.D
Acq: 16 Oct 2015 18:18

Tgt Ion:276 Resp: 72128
Ion Ratio Lower Upper
276 100
277 24.1 18.8 28.2
138 19.2 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

