

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011516\
 Data File : BF084502.D
 Acq On : 15 Jan 2016 20:30
 Operator : SJ/UM
 Sample : H1127-03
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL

Quant Time: Jan 16 02:57:46 2016
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF123115.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Jan 16 01:26:38 2016
 Response via : Initial Calibration

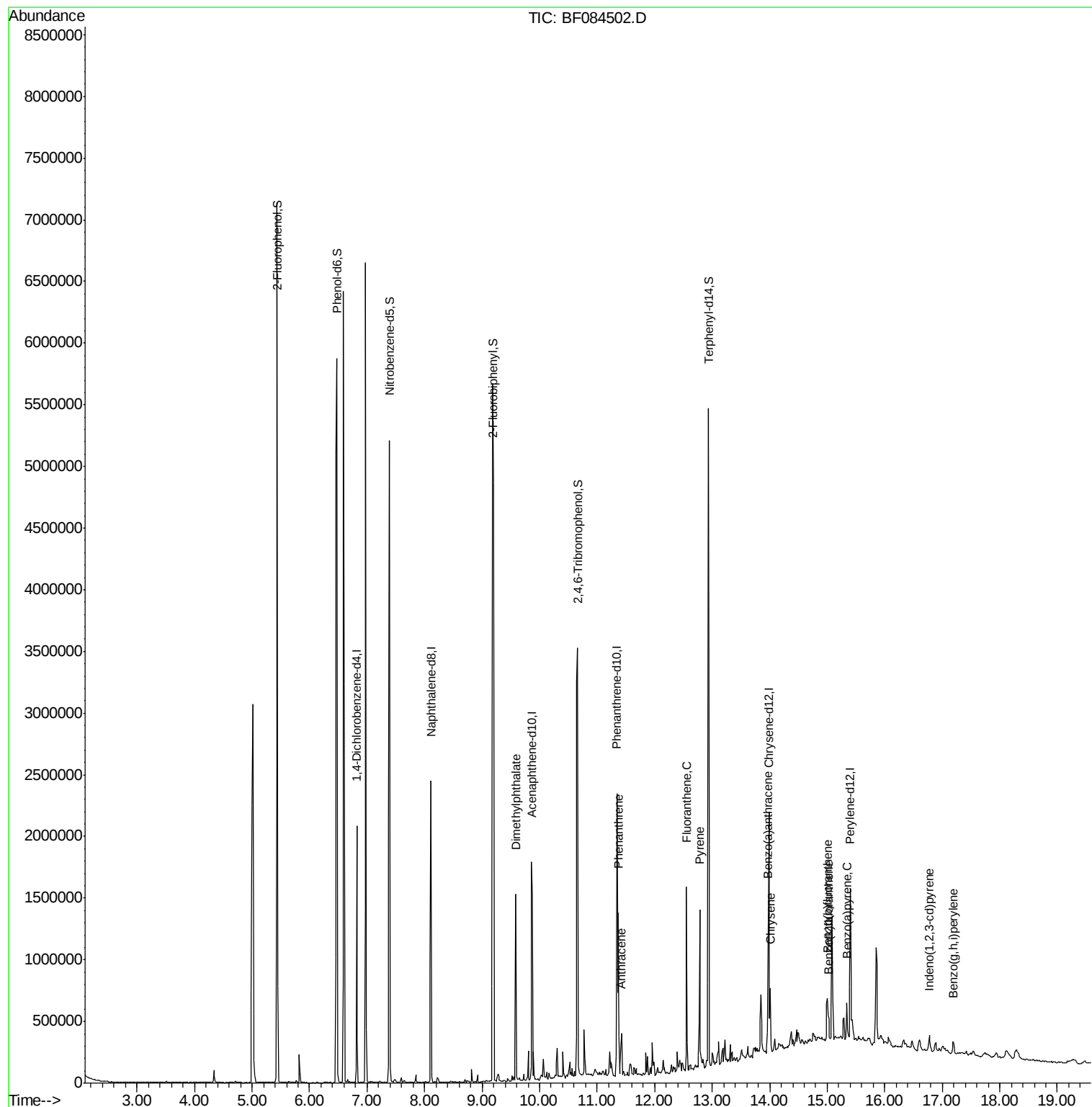
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.82	152	277818	20.00	ng	0.00
21) Naphthalene-d8	8.11	136	1168125	20.00	ng	0.00
38) Acenaphthene-d10	9.86	164	482352	20.00	ng	-0.01
63) Phenanthrene-d10	11.34	188	822878	20.00	ng	0.00
75) Chrysene-d12	13.98	240	635157	20.00	ng	0.00
86) Perylene-d12	15.40	264	566679	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.44	112	1965591	114.44	ng	0.01
7) Phenol-d6	6.48	99	2891038	134.02	ng	0.01
23) Nitrobenzene-d5	7.39	82	1724857	82.18	ng	0.00
41) 2,4,6-Tribromophenol	10.66	330	628830	129.13	ng	0.00
44) 2-Fluorobiphenyl	9.20	172	2616258	96.25	ng	0.00
78) Terphenyl-d14	12.93	244	1743871	61.29	ng	0.00
Target Compounds						Qvalue
49) Dimethylphthalate	9.58	163	542773	15.74	ng	# 90
70) Phenanthrene	11.37	178	491305	11.41	ng	99
71) Anthracene	11.42	178	166683	3.95	ng	96
74) Fluoranthene	12.56	202	554766	12.34	ng	99
77) Pyrene	12.78	202	512230	10.28	ng	99
80) Benzo(a)anthracene	13.97	228	259803	6.97	ng	96
82) Chrysene	14.01	228	161864	4.52	ng	97
85) Indeno(1,2,3-cd)pyrene	16.77	276	80811	2.84	ng	# 95
87) Benzo(b)fluoranthene	15.00	252	222147m	5.99	ng	
88) Benzo(k)fluoranthene	15.03	252	69729m	2.30	ng	
89) Benzo(a)pyrene	15.35	252	163573	5.20	ng	98
91) Benzo(a,h,i)perylene	17.20	276	83391	2.98	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: 6.82 min Scan# 414

Delta R.T. -0.00 min

Lab File: BF084502.D

Acq: 15 Jan 2016 20:30

Instrument :

BNA_F

ClientSampleId :

TOPSOIL

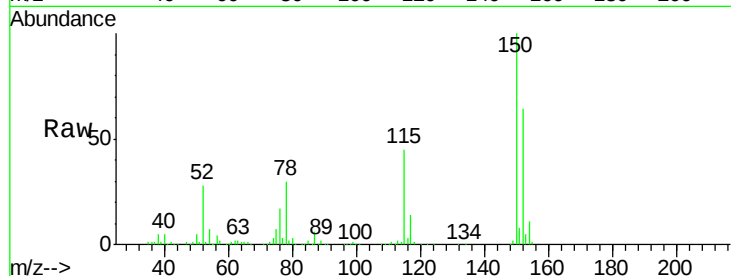
Tot Ion:152 Resp: 277818

Ion Ratio Lower Upper

152 100

150 156.0 123.0 184.4

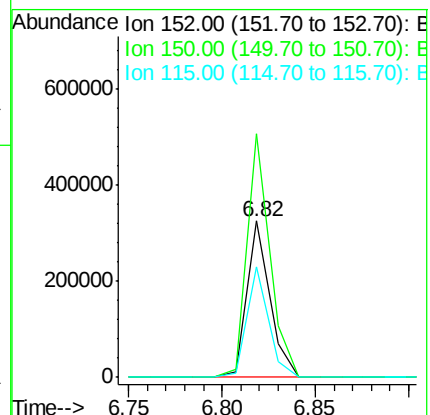
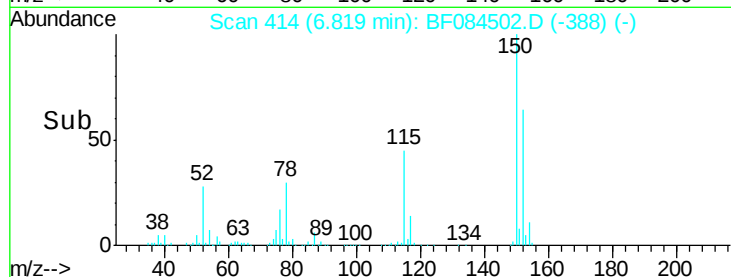
115 70.4 51.4 77.2



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: 114.44 ng

RT: 5.44 min Scan# 293

Delta R.T. 0.01 min

Lab File: BF084502.D

Acq: 15 Jan 2016 20:30

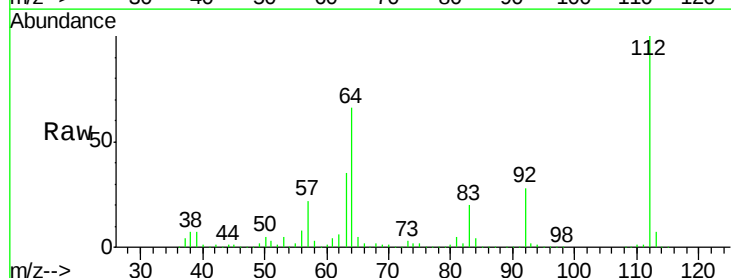
Tgt Ion:112 Resp: 1965591

Ion Ratio Lower Upper

112 100

64 66.5 36.6 55.0#

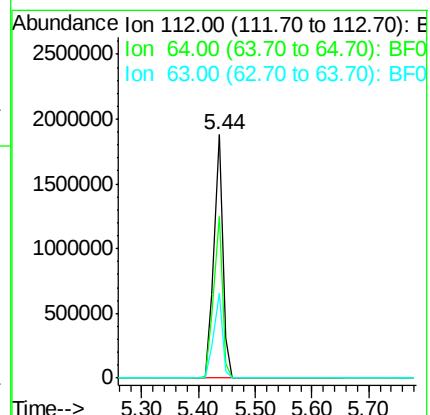
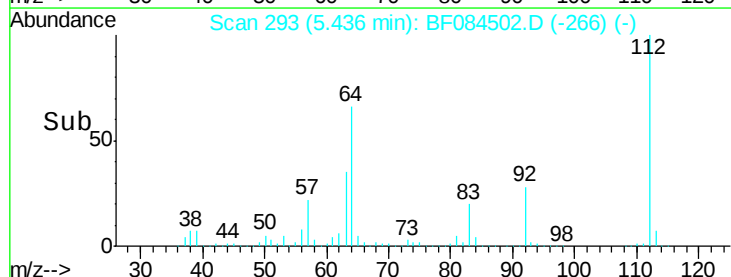
63 35.0 19.4 29.0#



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: 134.02 ng

RT: 6.48 min Scan# 384

Delta R.T. 0.01 min

Lab File: BF084502.D

Acq: 15 Jan 2016 20:30

Instrument :

BNA_F

ClientSampled :

TOPSOIL

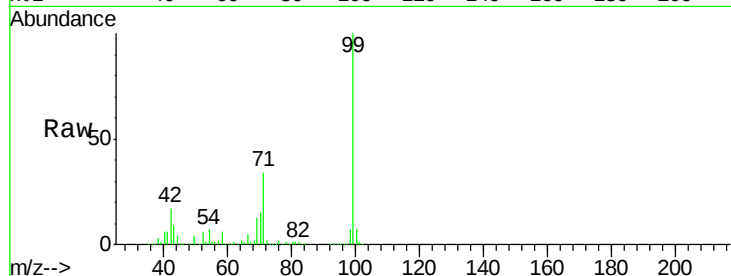
Tot Ion: 99 Resp: 2891038

Ion Ratio Lower Upper

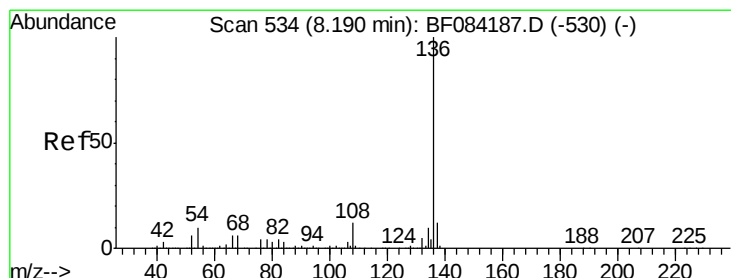
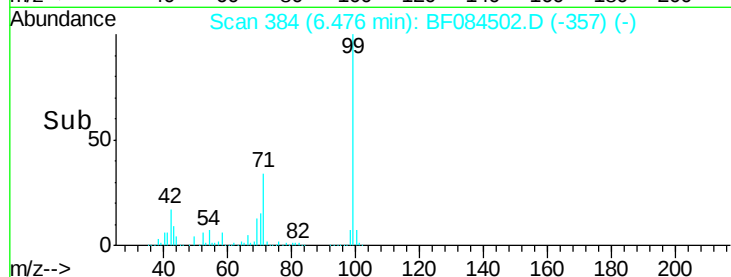
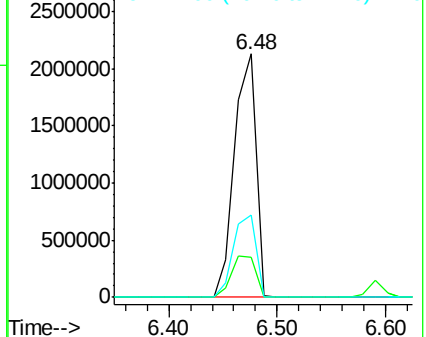
99 100

42 16.6 12.8 19.2

71 34.0 30.9 46.3



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: 8.11 min Scan# 527

Delta R.T. -0.00 min

Lab File: BF084502.D

Acq: 15 Jan 2016 20:30

Tgt Ion:136 Resp: 1168125

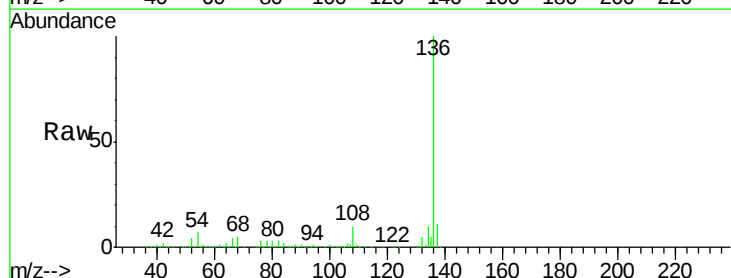
Ion Ratio Lower Upper

136 100

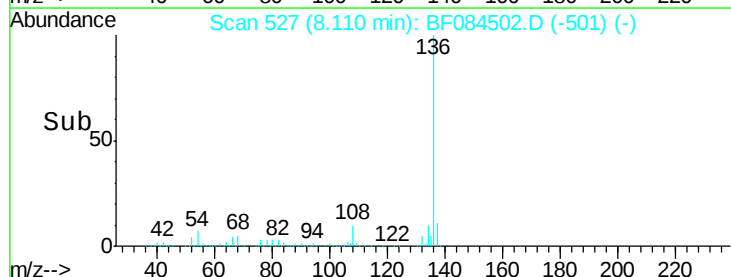
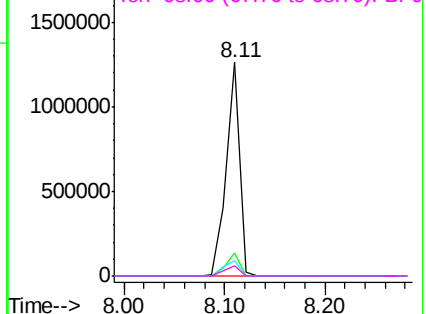
137 10.9 8.7 13.1

54 7.4 5.8 8.8

68 4.7 4.2 6.2



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

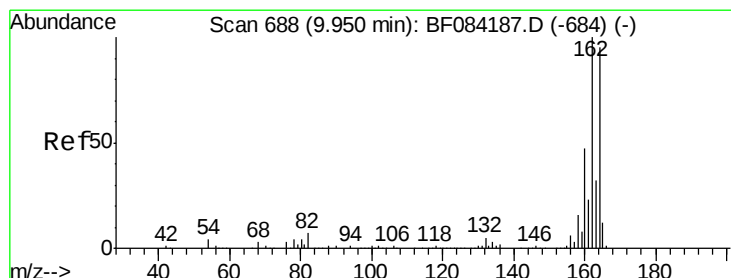
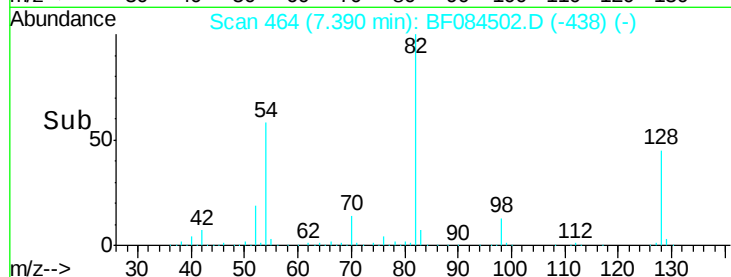
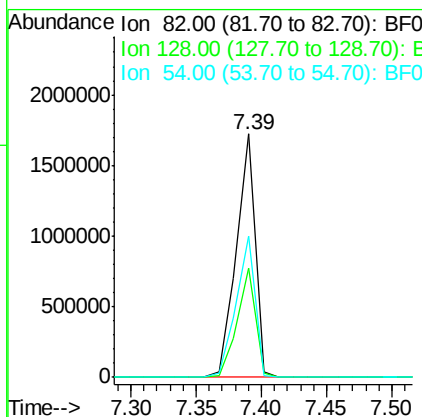
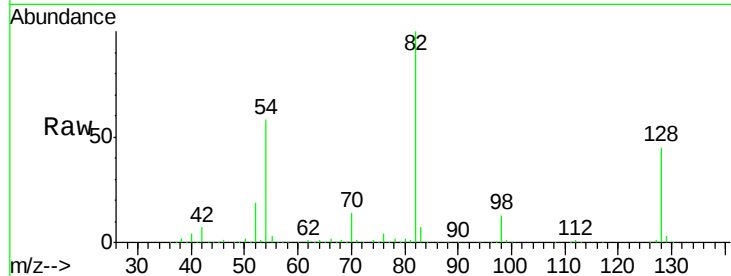




#23
Nitrobenzene-d5
Concen: 82.18 ng
RT: 7.39 min Scan# 464
Delta R.T. -0.00 min
Lab File: BF084502.D
Acq: 15 Jan 2016 20:30

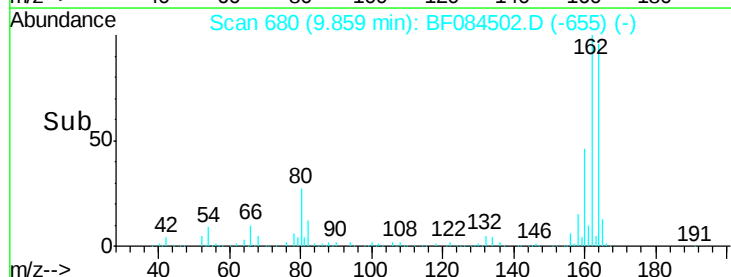
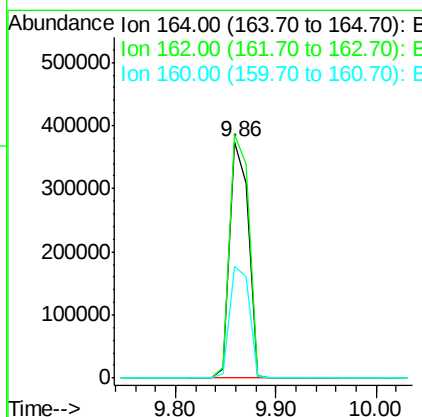
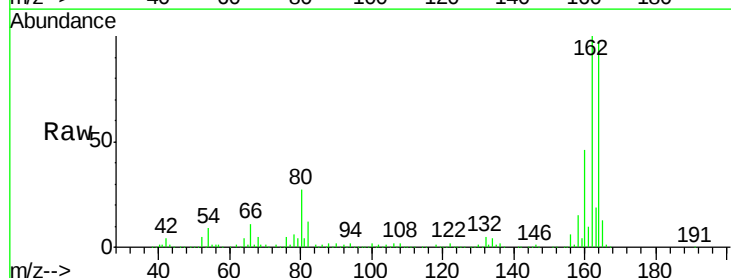
Instrument :
BNA_F
ClientSampleId :
TOPSOIL

Tot Ion: 82 Resp: 1724857
Ion Ratio Lower Upper
82 100
128 44.7 34.6 51.8
54 57.8 38.4 57.6#



#38
Acenaphthene-d10
Concen: 20.00 ng
RT: 9.86 min Scan# 680
Delta R.T. -0.01 min
Lab File: BF084502.D
Acq: 15 Jan 2016 20:30

Tgt Ion:164 Resp: 482352
Ion Ratio Lower Upper
164 100
162 103.2 85.1 127.7
160 47.2 37.5 56.3

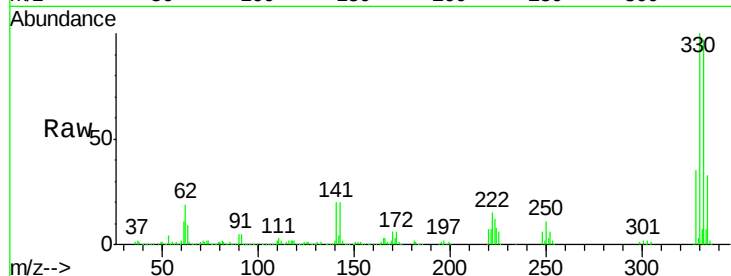




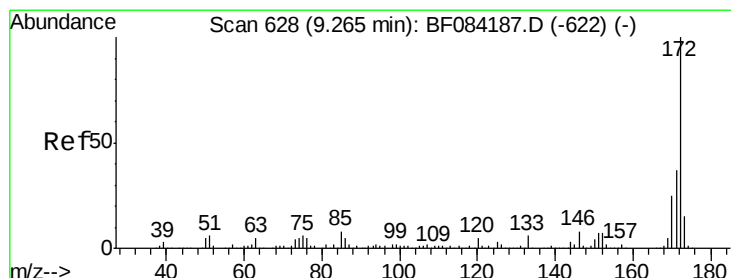
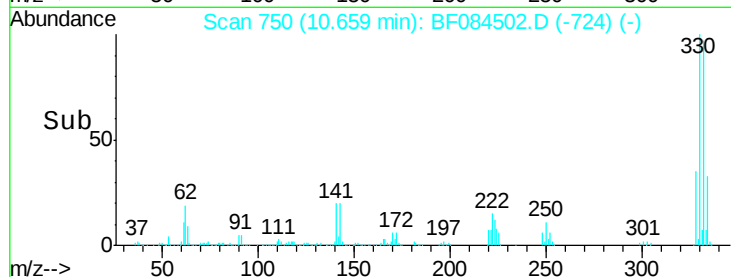
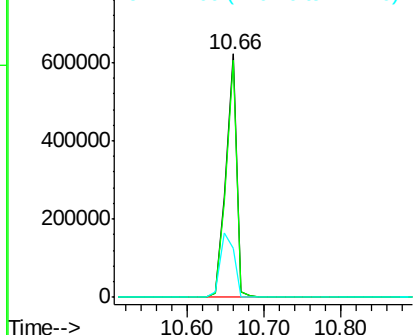
#41
 2,4,6-Tribromophenol
 Concen: 129.13 ng
 RT: 10.66 min Scan# 750
 Delta R.T. -0.00 min
 Lab File: BF084502.D
 Acq: 15 Jan 2016 20:30

Instrument :
 BNA_F
 ClientSampled :
 TOPSOIL

Tot Ion	Ratio	Lower	Upper
330	100		
332	96.6	76.6	114.8
141	33.4	27.8	41.6

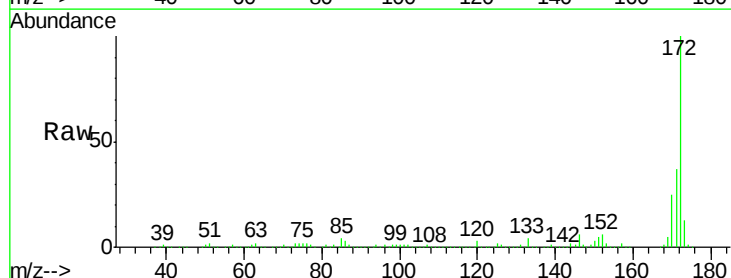


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

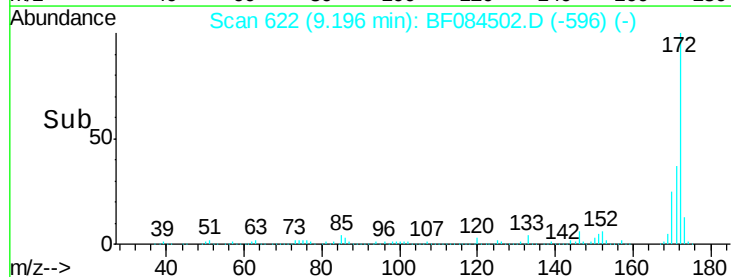
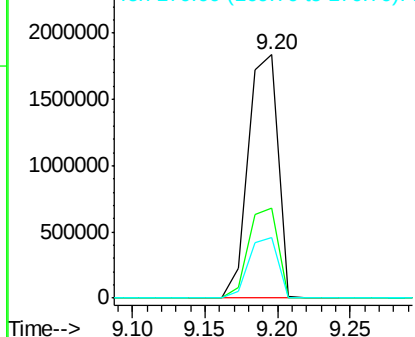


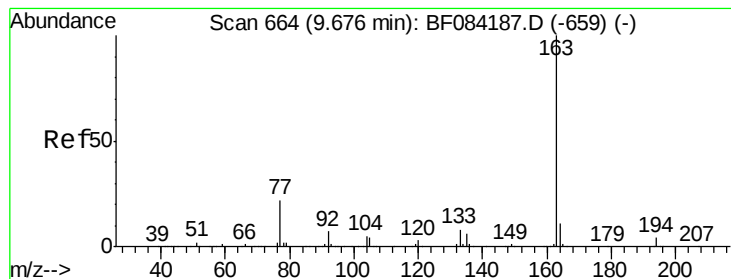
#44
 2-Fluorobiphenyl
 Concen: 96.25 ng
 RT: 9.20 min Scan# 622
 Delta R.T. -0.00 min
 Lab File: BF084502.D
 Acq: 15 Jan 2016 20:30

Tgt Ion	Ratio	Lower	Upper
172	100		
171	36.8	28.9	43.3
170	24.7	18.6	27.8



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





#49

Dimethylphthalate

Concen: 15.74 ng

RT: 9.58 min Scan# 656

Delta R.T. -0.01 min

Lab File: BF084502.D

Acq: 15 Jan 2016 20:30

Instrument :

BNA_F

ClientSampleId :

TOPSOIL

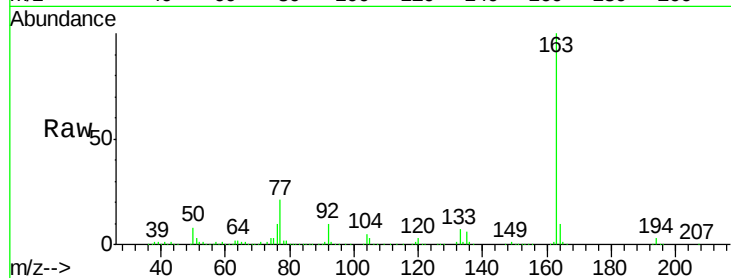
Tot Ion:163 Resp: 542773

Ion Ratio Lower Upper

163 100

194 3.0 8.0 12.0#

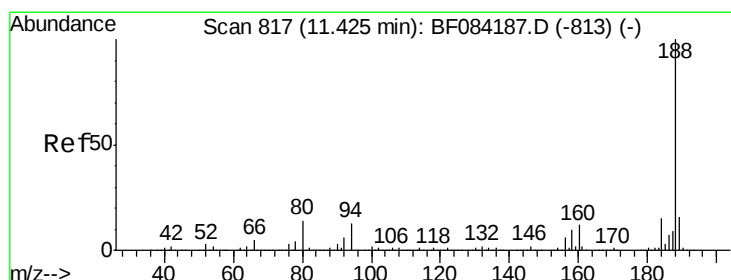
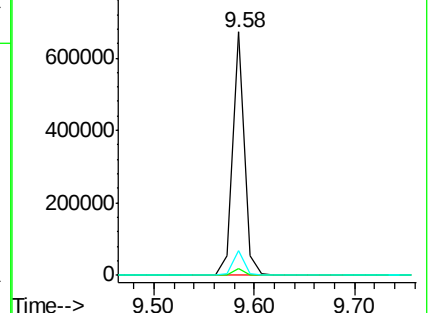
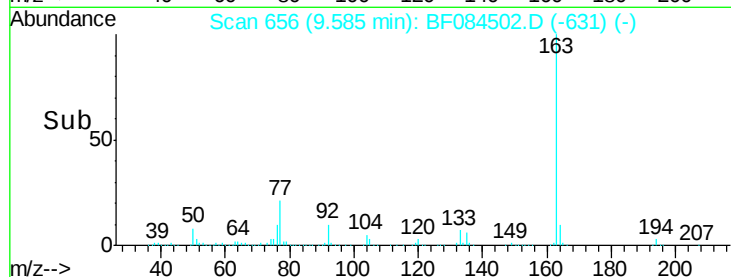
164 10.2 8.0 12.0



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



#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.34 min Scan# 810

Delta R.T. -0.00 min

Lab File: BF084502.D

Acq: 15 Jan 2016 20:30

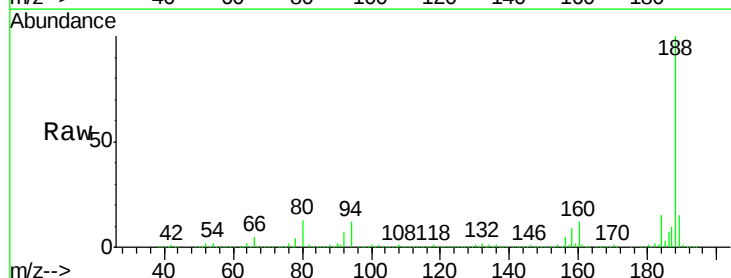
Tgt Ion:188 Resp: 822878

Ion Ratio Lower Upper

188 100

94 12.4 9.0 13.4

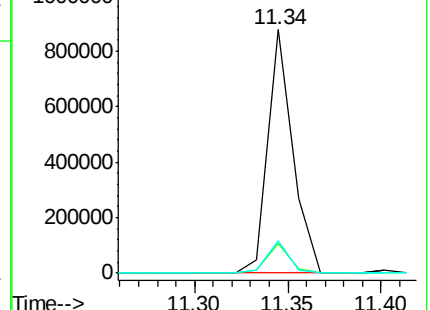
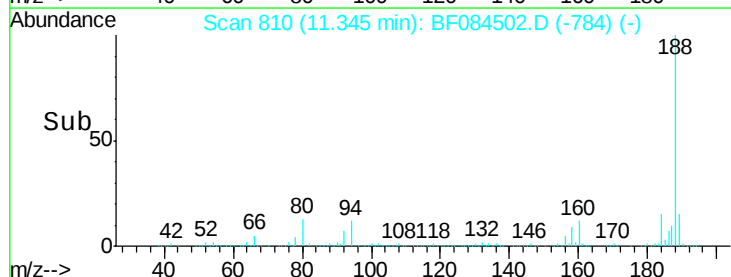
80 13.1 9.6 14.4

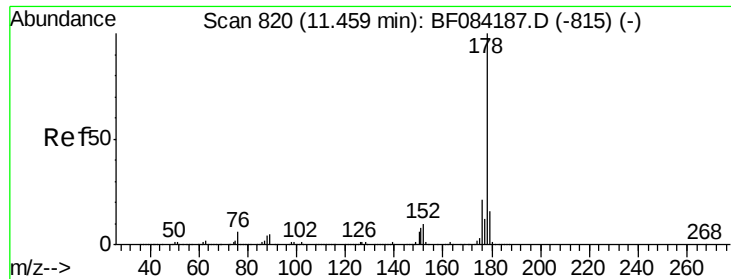


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0

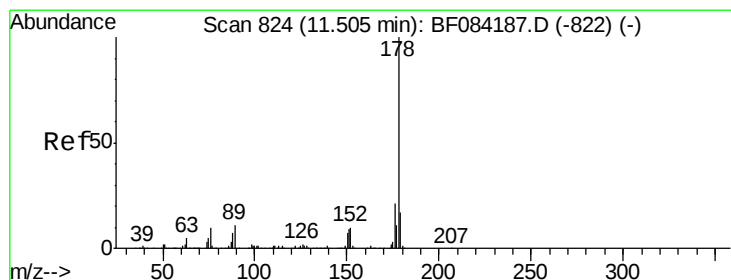
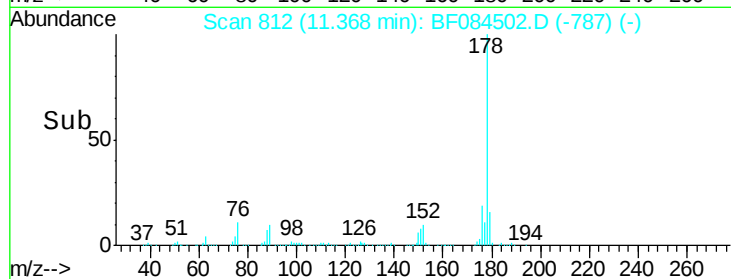
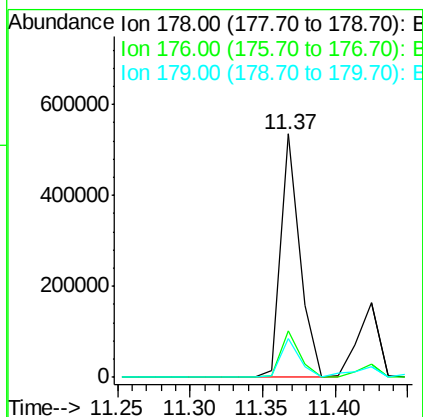
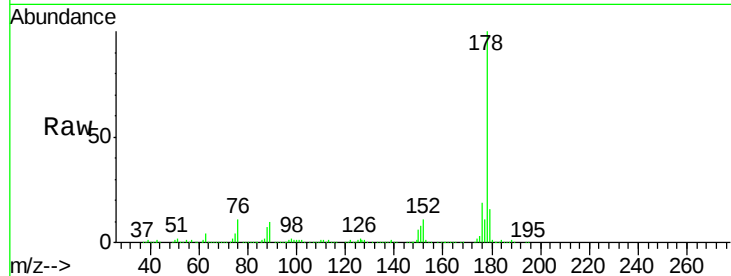




#70
Phenanthrene
Concen: 11.41 ng
RT: 11.37 min Scan# 812
Delta R.T. -0.01 min
Lab File: BF084502.D
Acq: 15 Jan 2016 20:30

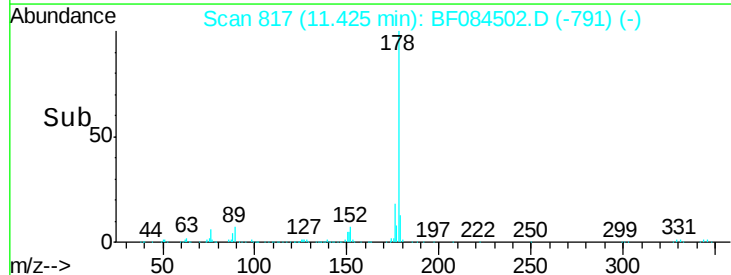
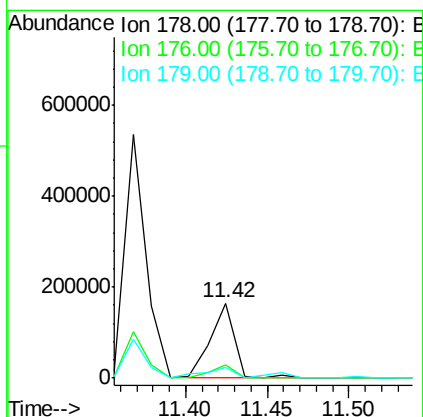
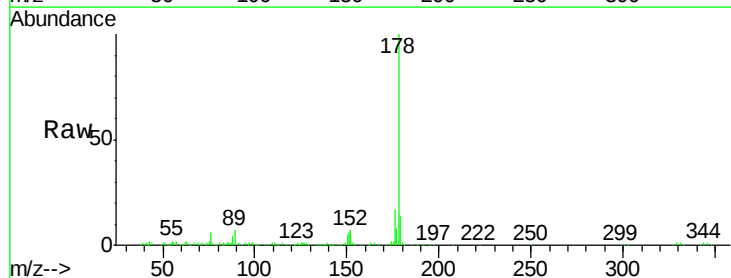
Instrument :
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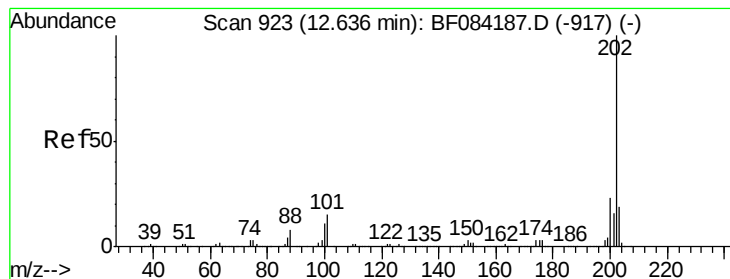
Tot Ion:178 Resp: 491305
Ion Ratio Lower Upper
178 100
176 19.0 15.3 22.9
179 15.7 12.0 18.0



#71
Anthracene
Concen: 3.95 ng
RT: 11.42 min Scan# 817
Delta R.T. -0.00 min
Lab File: BF084502.D
Acq: 15 Jan 2016 20:30

Tgt Ion:178 Resp: 166683
Ion Ratio Lower Upper
178 100
176 17.5 15.4 23.0
179 14.0 12.5 18.7





#74

Fluoranthene

Concen: 12.34 ng

RT: 12.56 min Scan# 916

Delta R.T. -0.00 min

Lab File: BF084502.D

Acq: 15 Jan 2016 20:30

Instrument :

BNA_F

ClientSampleId :

TOPSOIL

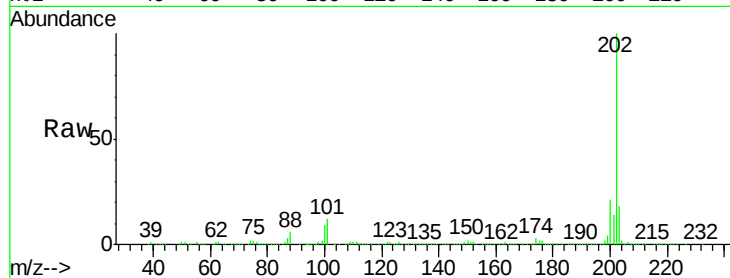
Tot Ion:202 Resp: 554766

Ion Ratio Lower Upper

202 100

101 12.2 0.0 32.8

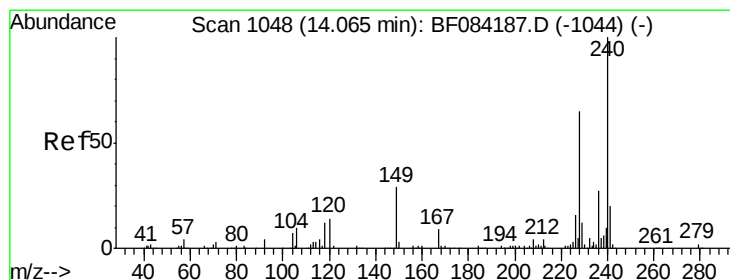
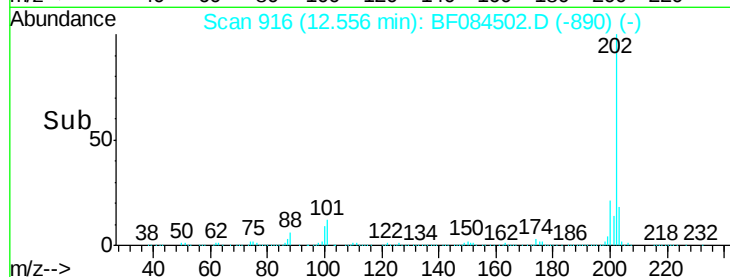
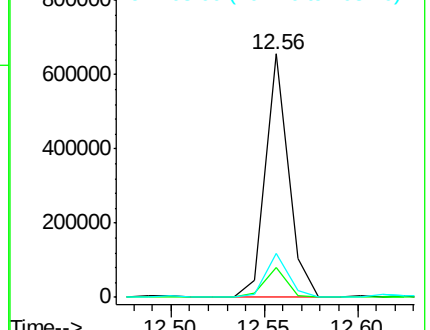
203 17.9 0.0 37.9



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: 13.98 min Scan# 1041

Delta R.T. -0.00 min

Lab File: BF084502.D

Acq: 15 Jan 2016 20:30

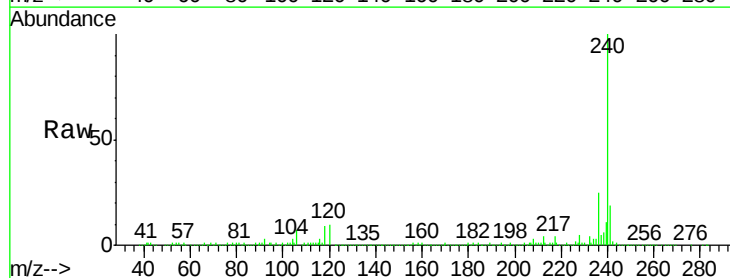
Tgt Ion:240 Resp: 635157

Ion Ratio Lower Upper

240 100

120 10.4 9.5 14.3

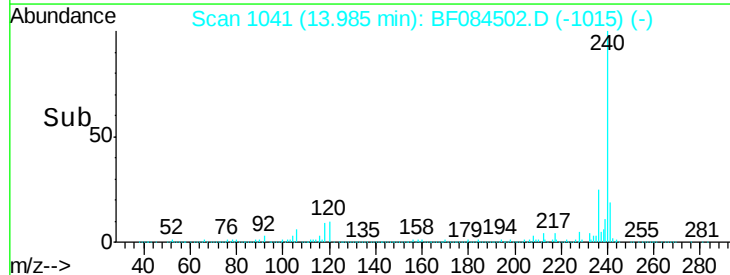
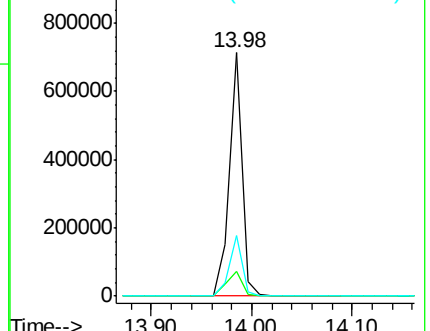
236 25.0 20.6 31.0

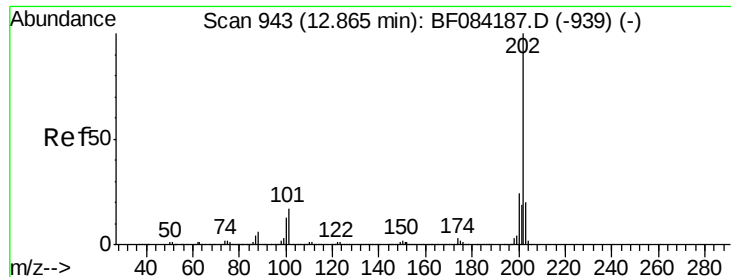


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 10.28 ng

RT: 12.78 min Scan# 936

Delta R.T. -0.00 min

Lab File: BF084502.D

Acq: 15 Jan 2016 20:30

Instrument :

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ClientSampleId :

TOPSOIL

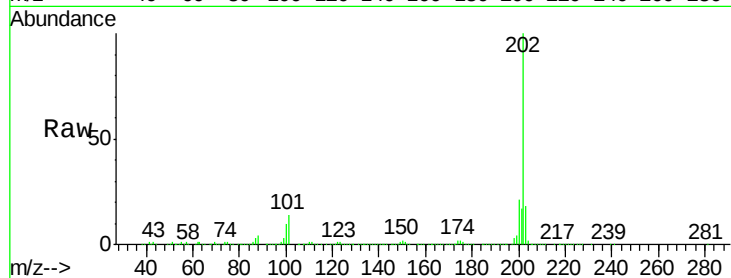
Tot Ion:202 Resp: 512230

Ion Ratio Lower Upper

202 100

200 20.8 17.2 25.8

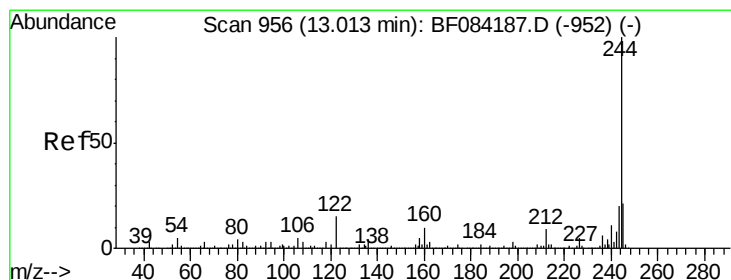
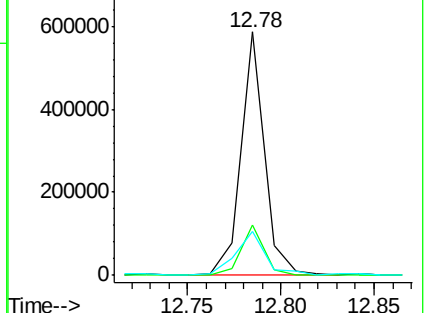
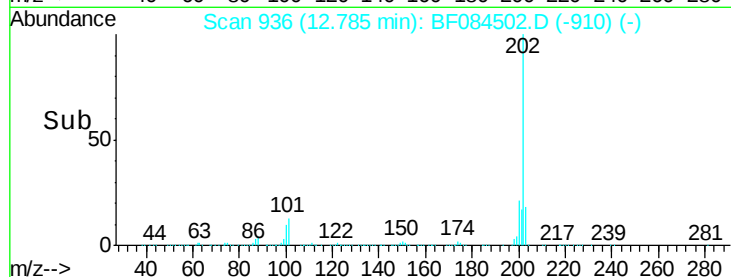
203 18.0 14.3 21.5



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: 61.29 ng

RT: 12.93 min Scan# 949

Delta R.T. -0.00 min

Lab File: BF084502.D

Acq: 15 Jan 2016 20:30

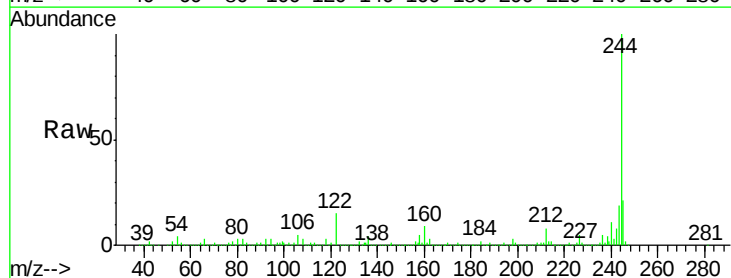
Tgt Ion:244 Resp: 1743871

Ion Ratio Lower Upper

244 100

212 7.7 5.7 8.5

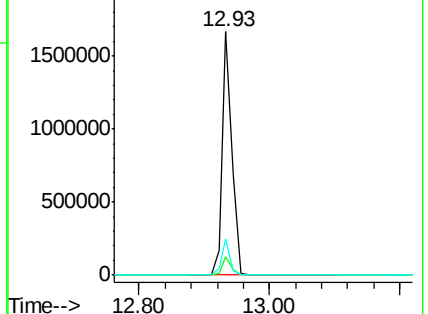
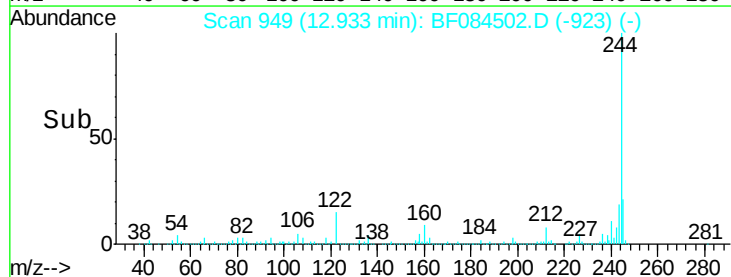
122 14.9 7.4 11.0#

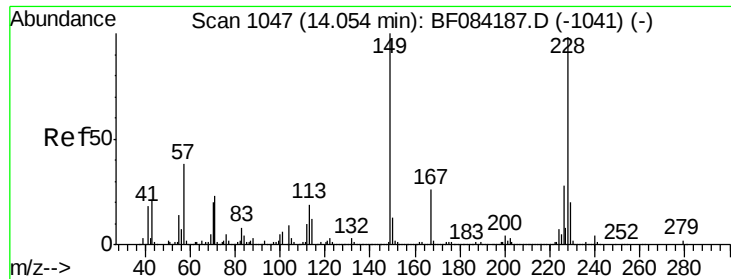


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

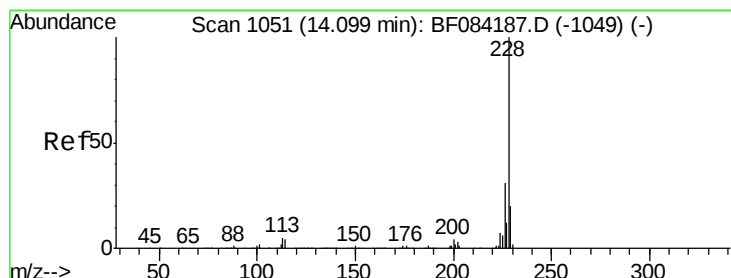
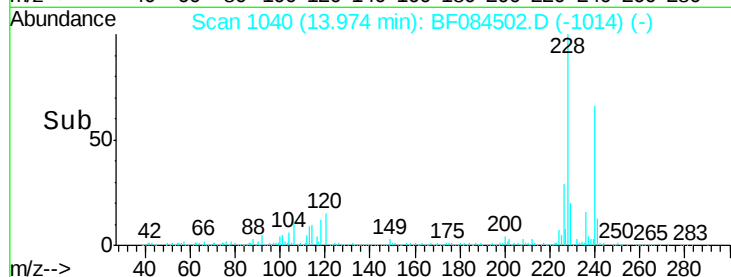
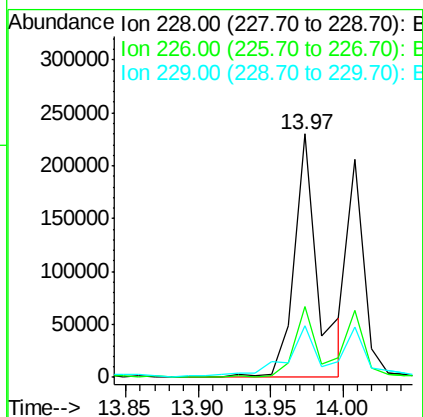




#80
Benzo(a)anthracene
Concen: 6.97 ng
RT: 13.97 min Scan# 1040
Delta R.T. -0.00 min
Lab File: BF084502.D
Acq: 15 Jan 2016 20:30

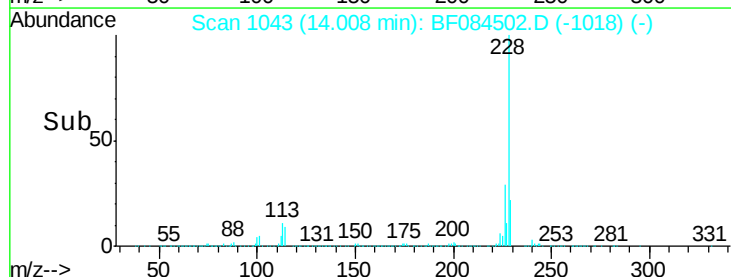
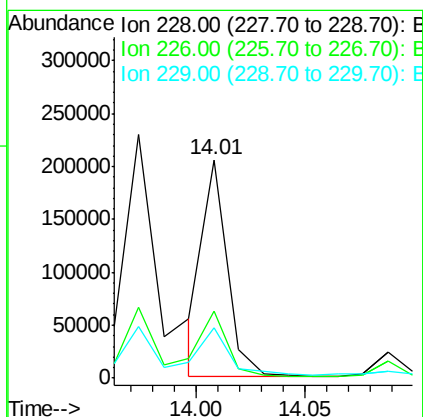
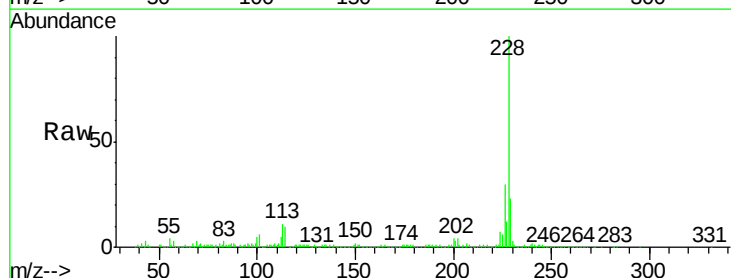
Instrument :
BNA_F
ClientSampleId :
TOPSOIL

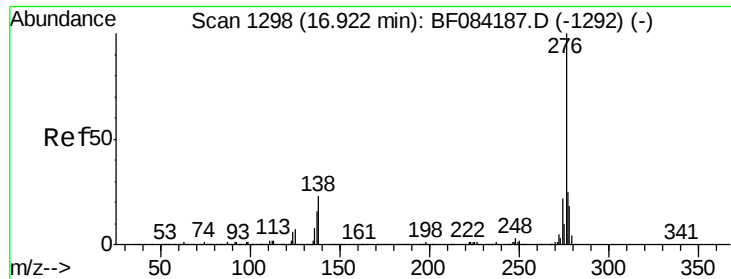
Tot Ion:228 Resp: 259803
Ion Ratio Lower Upper
228 100
226 29.1 21.8 32.6
229 21.4 15.8 23.8



#82
Chrysene
Concen: 4.52 ng
RT: 14.01 min Scan# 1043
Delta R.T. -0.01 min
Lab File: BF084502.D
Acq: 15 Jan 2016 20:30

Tgt Ion:228 Resp: 161864
Ion Ratio Lower Upper
228 100
226 30.4 24.3 36.5
229 23.3 16.1 24.1

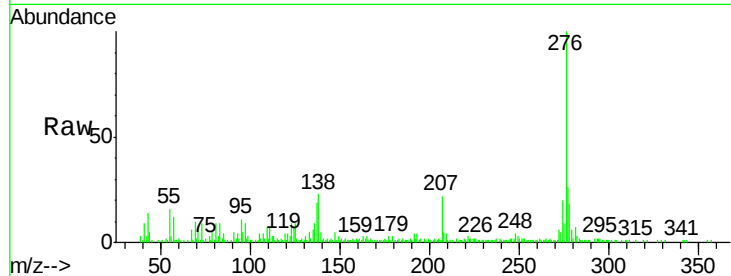




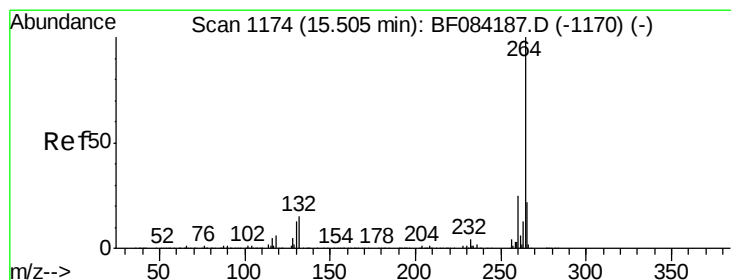
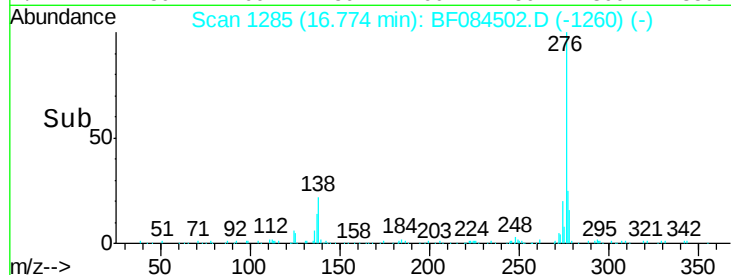
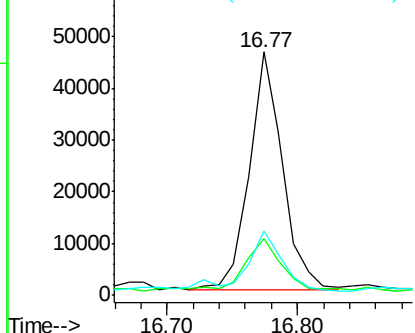
#85
 Indeno(1,2,3-cd)pyrene
 Concen: 2.84 ng
 RT: 16.77 min Scan# 1285
 Delta R.T. -0.01 min
 Lab File: BF084502.D
 Acq: 15 Jan 2016 20:30

Instrument :
 BNA_F
 ClientSampleId :
 TOPSOIL

Tot Ion:276 Resp: 80811
 Ion Ratio Lower Upper
 276 100
 138 25.6 20.6 30.8
 277 30.3 20.1 30.1#

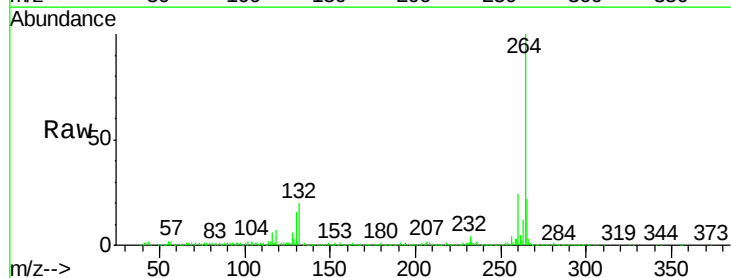


Abundance Ion 276.00 (275.70 to 276.70): E
 Ion 138.00 (137.70 to 138.70): E
 Ion 277.00 (276.70 to 277.70): E

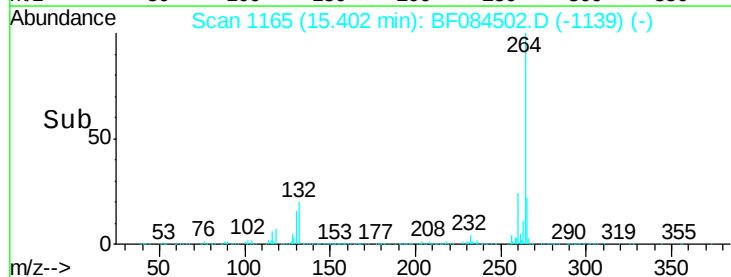
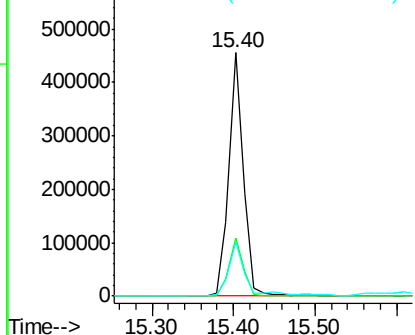


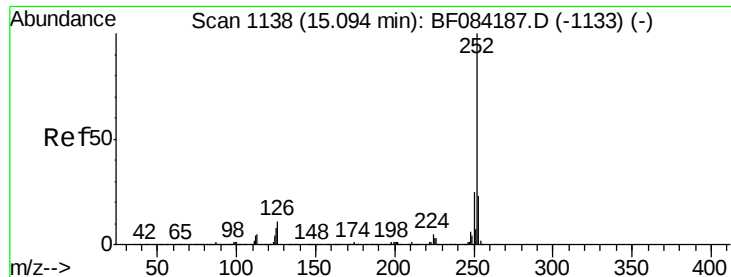
#86
 Perylene-d12
 Concen: 20.00 ng
 RT: 15.40 min Scan# 1165
 Delta R.T. -0.00 min
 Lab File: BF084502.D
 Acq: 15 Jan 2016 20:30

Tgt Ion:264 Resp: 566679
 Ion Ratio Lower Upper
 264 100
 260 23.6 19.4 29.2
 265 22.2 17.8 26.6



Abundance Ion 264.00 (263.70 to 264.70): E
 Ion 260.00 (259.70 to 260.70): E
 Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 5.99 ng m

RT: 15.00 min Scan# 1130

Delta R.T. -0.00 min

Lab File: BF084502.D

Acq: 15 Jan 2016 20:30

Instrument :

BNA_F

ClientSampleId :

TOPSOIL

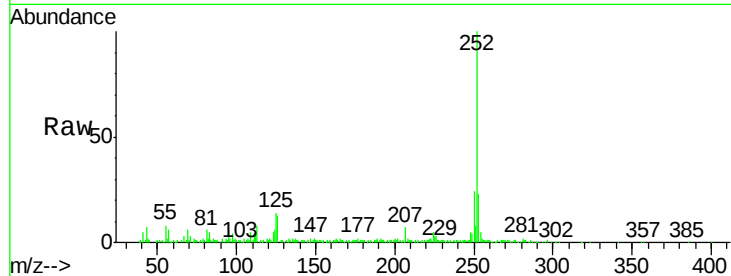
Tot Ion:252 Resp: 222147

Ion Ratio Lower Upper

252 100

253 22.5 17.3 25.9

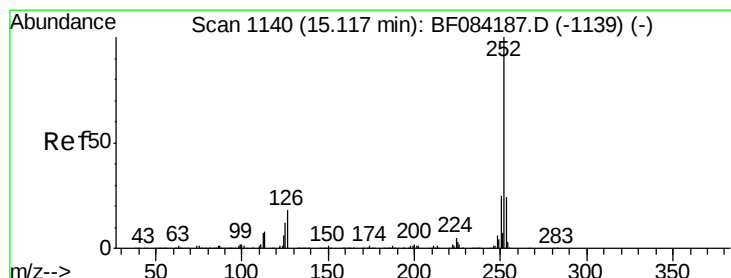
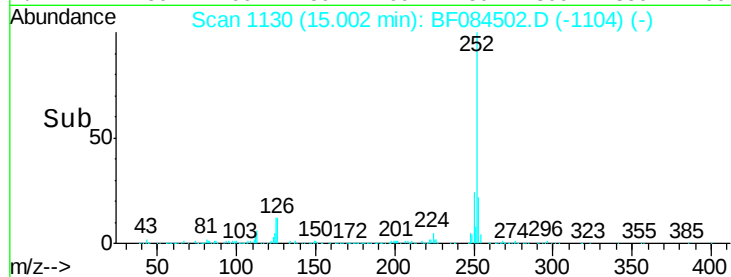
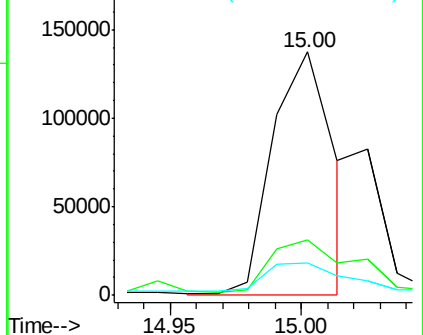
125 13.6 6.5 9.7#



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



#88

Benzo(k)fluoranthene

Concen: 2.30 ng m

RT: 15.03 min Scan# 1132

Delta R.T. -0.00 min

Lab File: BF084502.D

Acq: 15 Jan 2016 20:30

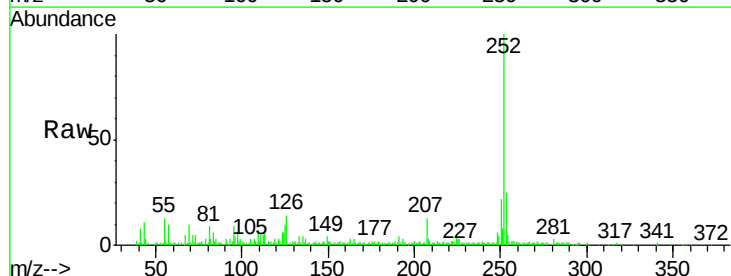
Tgt Ion:252 Resp: 69729

Ion Ratio Lower Upper

252 100

253 24.7 18.1 27.1

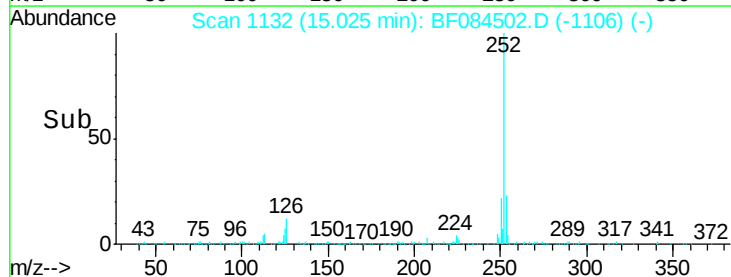
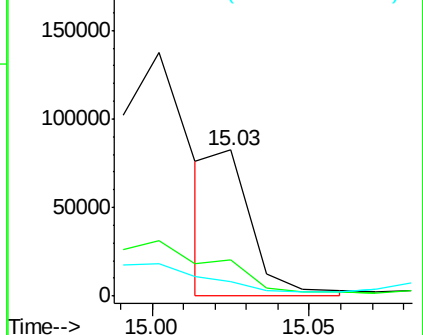
125 9.8 9.0 13.6

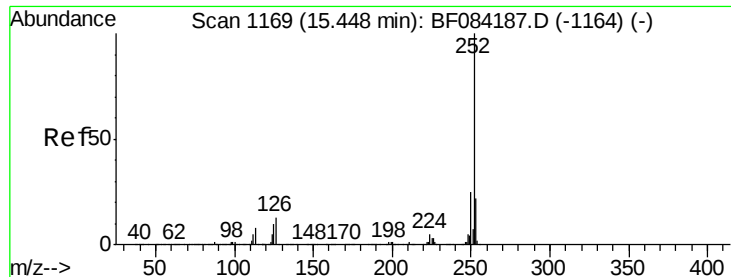


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

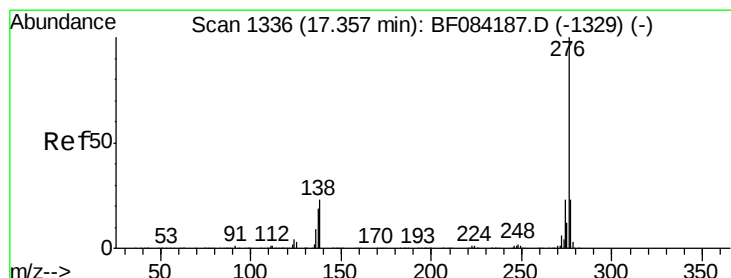
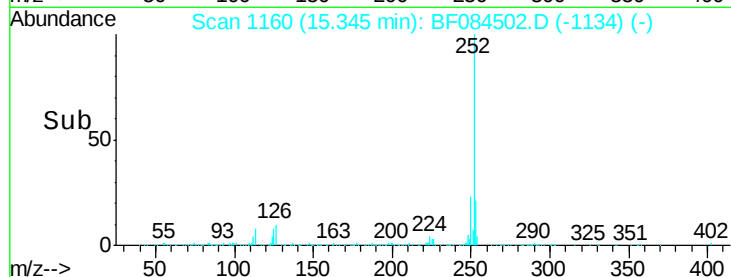
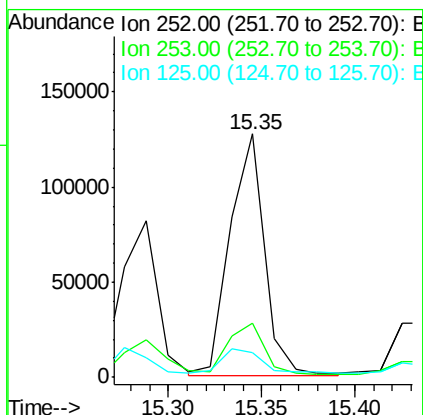
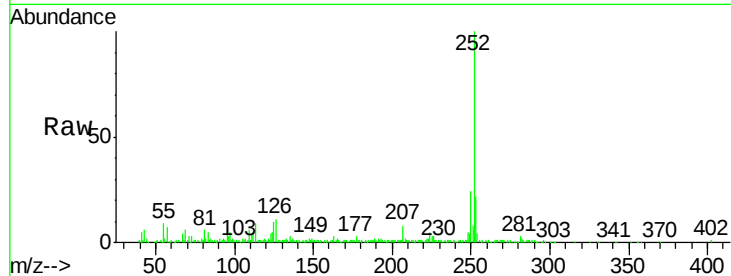




#89
Benzo(a)pyrene
Concen: 5.20 ng
RT: 15.35 min Scan# 1160
Delta R.T. -0.00 min
Lab File: BF084502.D
Acq: 15 Jan 2016 20:30

Instrument :
BNA_F
ClientSampleId :
TOPSOIL

Tot Ion:252 Resp: 163573
Ion Ratio Lower Upper
252 100
253 22.4 17.3 25.9
125 10.1 7.0 10.4



#91
Benzo(g,h,i)perylene
Concen: 2.98 ng
RT: 17.20 min Scan# 1322
Delta R.T. -0.01 min
Lab File: BF084502.D
Acq: 15 Jan 2016 20:30

Tgt Ion:276 Resp: 83391
Ion Ratio Lower Upper
276 100
277 22.9 18.8 28.2
138 21.0 17.8 26.6

