

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF101218\
 Data File : BF109844.D
 Acq On : 12 Oct 2018 20:01
 Operator : JU/SJ
 Sample : J5457-01 2X
 Misc :
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 KG-SOIL

Quant Time: Oct 12 22:22:04 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100818.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 08 16:02:11 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.69	152	90235	20.00	ng	0.00
21) Naphthalene-d8	7.97	136	364909	20.00	ng	0.00
38) Acenaphthene-d10	9.72	164	149746	20.00	ng	0.00
63) Phenanthrene-d10	11.20	188	254003	20.00	ng	0.00
75) Chrysene-d12	13.88	240	108635	20.00	ng	0.05
86) Perylene-d12	15.31	264	106361	20.00	ng	0.08

System Monitoring Compounds

5) 2-Fluorophenol	5.30	112	155089	30.51	ng	-0.02
7) Phenol-d6	6.34	99	205082	30.20	ng	-0.02
23) Nitrobenzene-d5	7.26	82	117062	17.68	ng	-0.01
41) 2,4,6-Tribromophenol	10.51	330	41995	25.74	ng	0.00
44) 2-Fluorobiphenyl	9.05	172	242371	22.29	ng	-0.01
78) Terphenyl-d14	12.80	244	140084	24.96	ng	0.01

Target Compounds

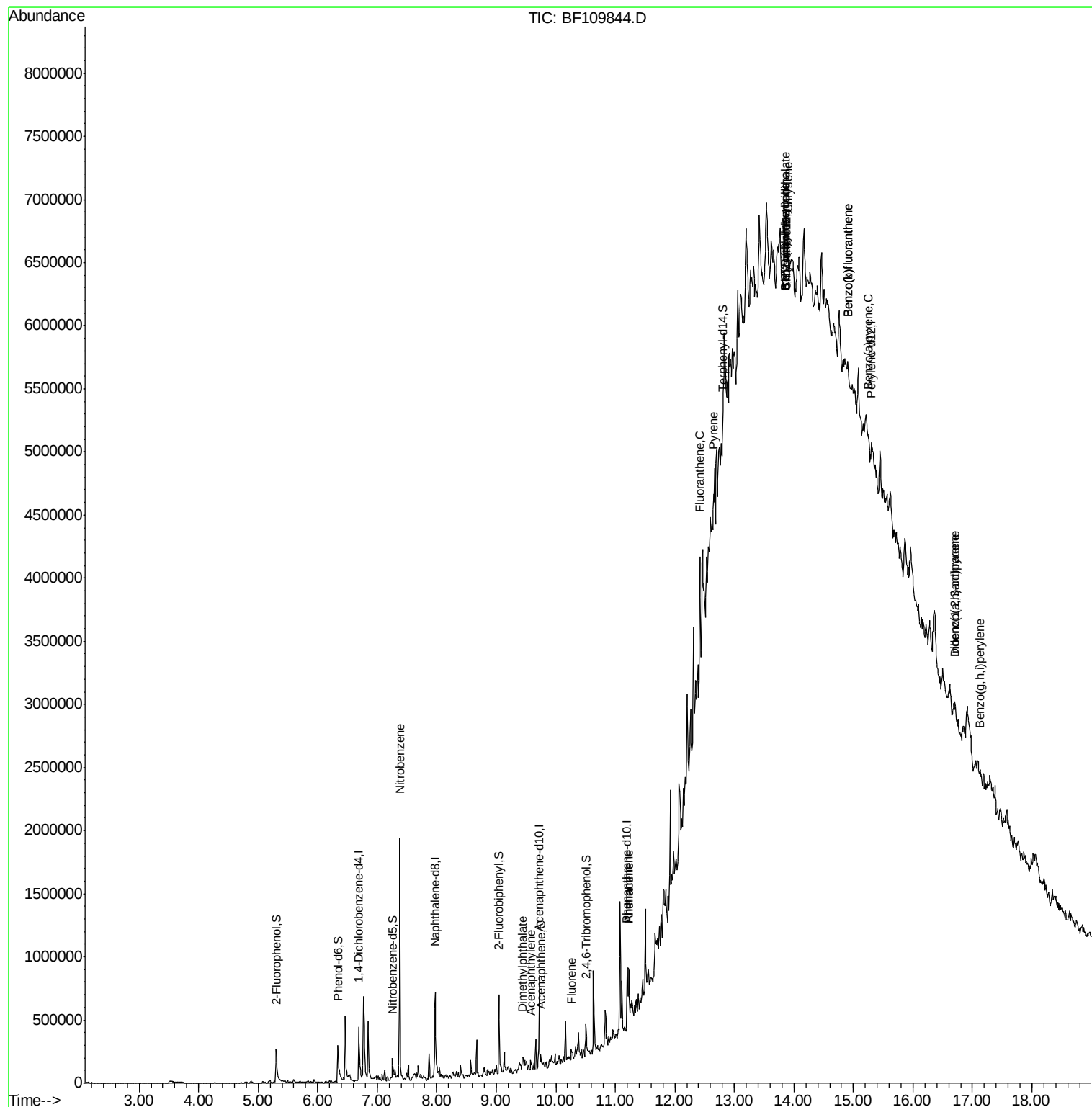
						Qvalue
24) Nitrobenzene	7.38	77	53335	7.743	ng	# 19
48) Acenaphthylene	9.58	152	39473	2.702	ng	96
49) Dimethylphthalate	9.44	163	24890	2.266	ng	# 96
51) Acenaphthene	9.75	154	18385	2.123	ng	98
57) Fluorene	10.27	166	34525	3.561	ng	# 98
70) Phenanthrene	11.23	178	202310	15.916	ng	99
71) Anthracene	11.23	178	202310	15.397	ng	99
74) Fluoranthene	12.42	202	366120	27.571	ng	97
77) Pyrene	12.65	202	279040	35.058	ng	96
80) Benzo(a)anthracene	13.87	228	114099	19.033	ng	# 88
81) 3,3'-Dichlorobenzidine	13.87	252	5770	2.390	ng	# 1
82) Chrysene	13.90	228	85956	13.650	ng	# 91
83) Bis(2-ethylhexyl)phthalate	13.86	149	36218	8.603	ng	# 68
85) Indeno(1,2,3-cd)pyrene	16.70	276	46824	10.389	ng	97
87) Benzo(b)fluoranthene	14.90	252	135597	23.070	ng	# 1
88) Benzo(k)fluoranthene	14.90	252	135597	22.961	ng	# 1
89) Benzo(a)pyrene	15.25	252	70063	13.136	ng	# 1
90) Dibenzo(a,h)anthracene	16.70	278	11220	2.561	ng	# 1
91) Benzo(g,h,i)perylene	17.12	276	41825	9.561	ng	# 51

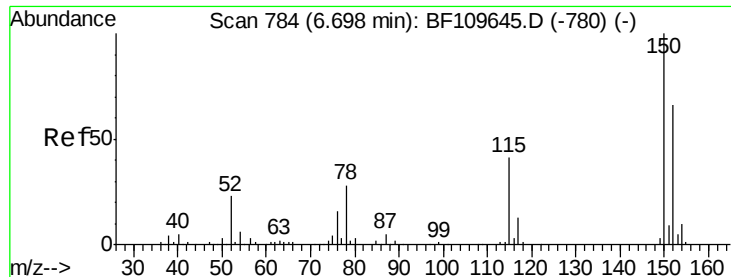
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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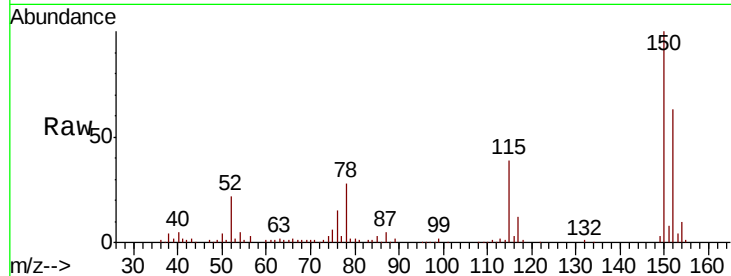


#1

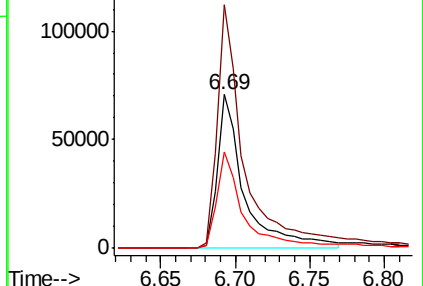
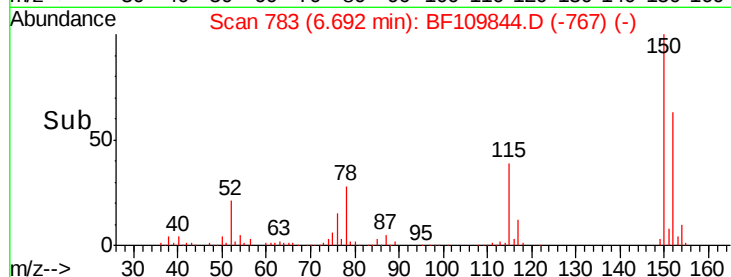
1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.69 min Scan# 783
 Delta R.T. -0.01 min
 Lab File: BF109844.D
 Acq: 12 Oct 2018 20:01

Instrument :
 BNA_F
 ClientSampleId :
 KG-SOIL

Tgt Ion:152 Resp: 90235
 Ion Ratio Lower Upper
 152 100
 150 158.3 122.7 184.1
 115 62.4 49.1 73.7



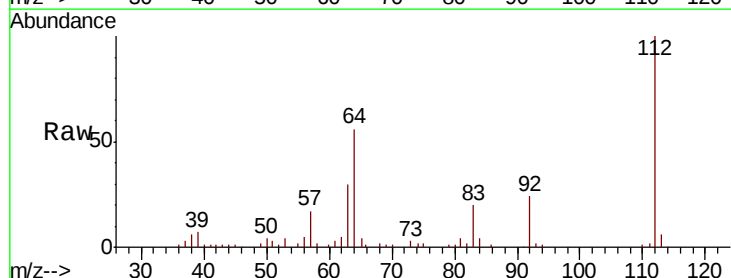
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



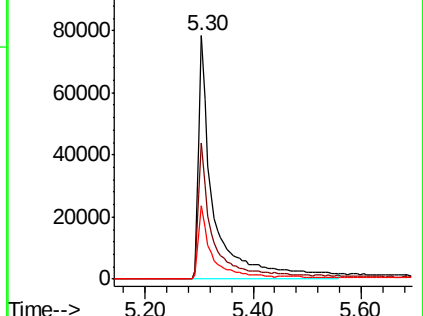
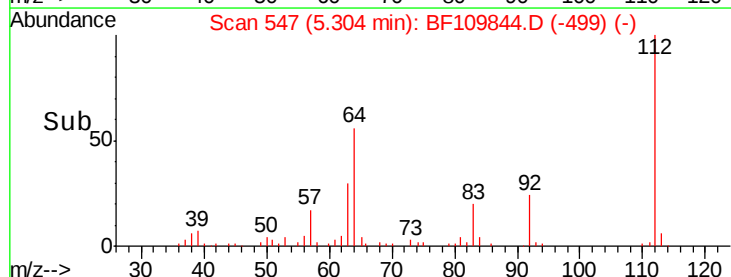
#5

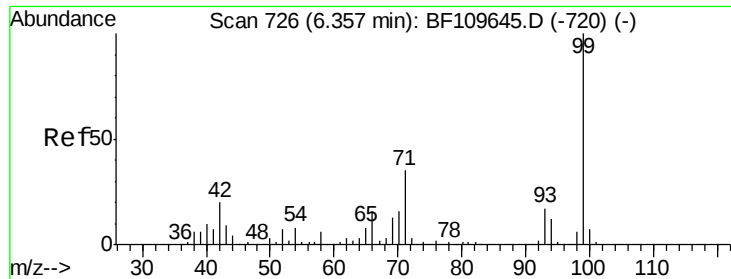
2-Fluorophenol
 Concen: 30.508 ng
 RT: 5.30 min Scan# 547
 Delta R.T. -0.02 min
 Lab File: BF109844.D
 Acq: 12 Oct 2018 20:01

Tgt Ion:112 Resp: 155089
 Ion Ratio Lower Upper
 112 100
 64 55.9 44.1 66.1
 63 30.1 23.7 35.5



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





#7

Phenol-d6

Concen: 30.199 ng

RT: 6.34 min Scan# 723

Delta R.T. -0.02 min

Lab File: BF109844.D

Acq: 12 Oct 2018 20:01

Instrument :

BNA_F

ClientSampled :

KG-SOIL

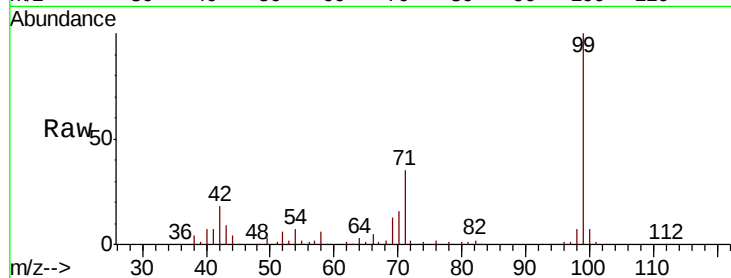
Tgt Ion: 99 Resp: 205082

Ion Ratio Lower Upper

99 100

42 18.2 15.8 23.6

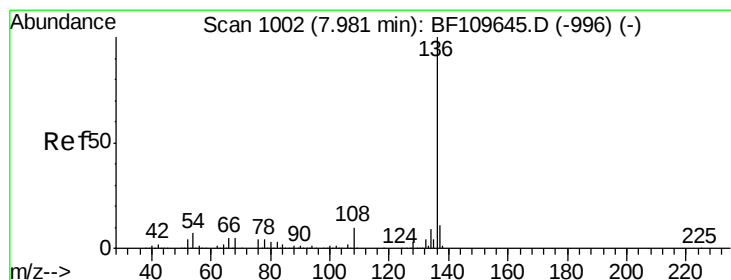
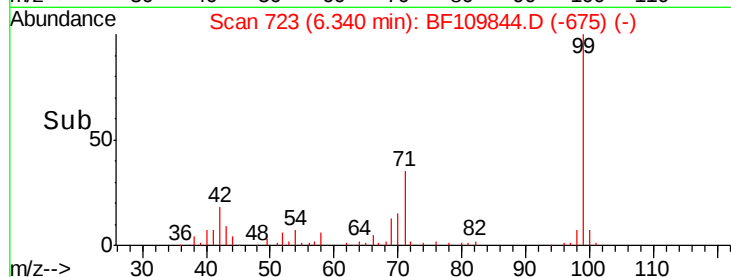
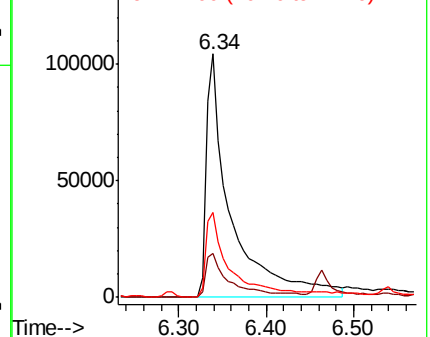
71 34.9 28.0 42.0



Abundance Ion 99.00 (98.70 to 99.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 71.00 (70.70 to 71.70): BF1



#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.97 min Scan# 1001

Delta R.T. -0.01 min

Lab File: BF109844.D

Acq: 12 Oct 2018 20:01

Tgt Ion: 136 Resp: 364909

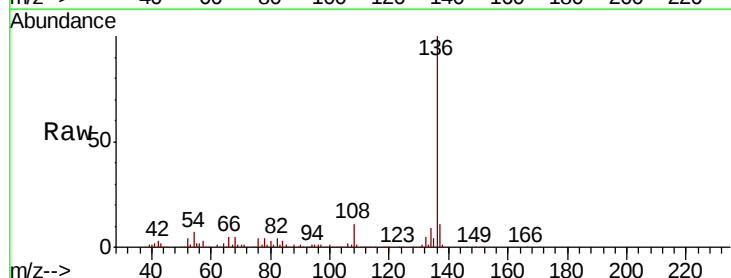
Ion Ratio Lower Upper

136 100

137 11.0 8.8 13.2

54 7.0 5.4 8.2

68 5.1 4.2 6.2

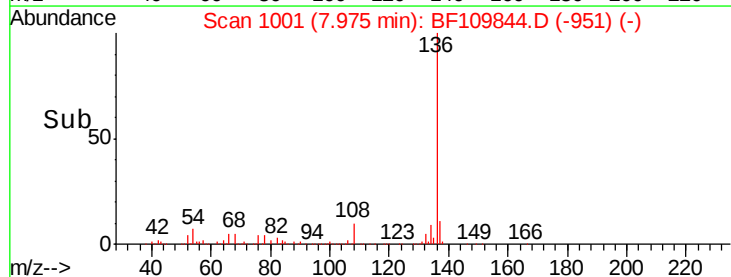
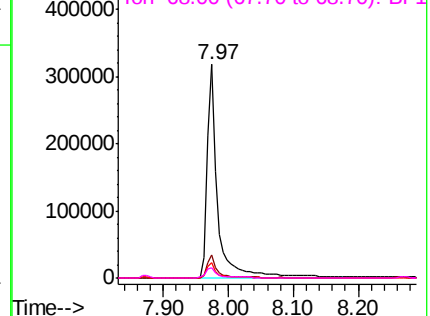


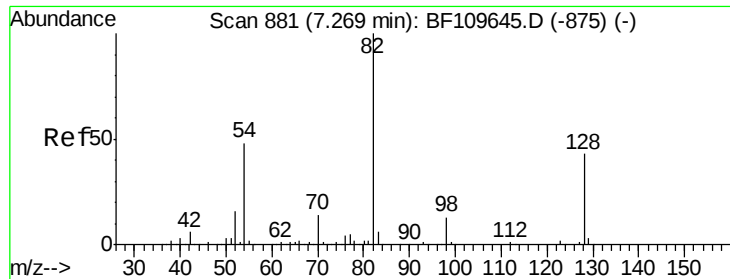
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1

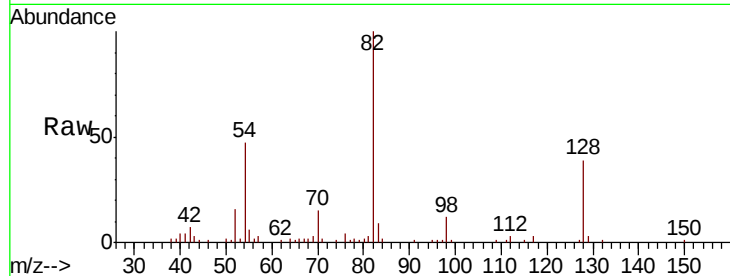




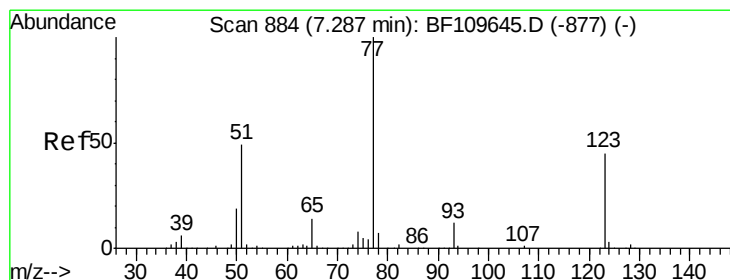
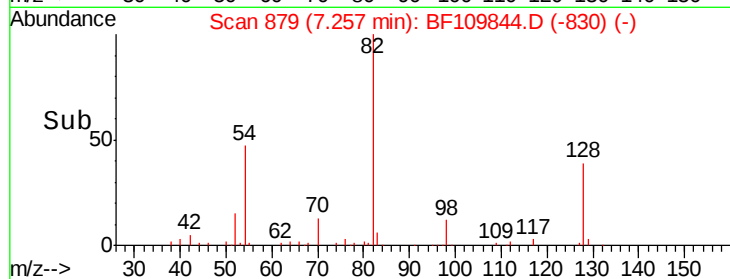
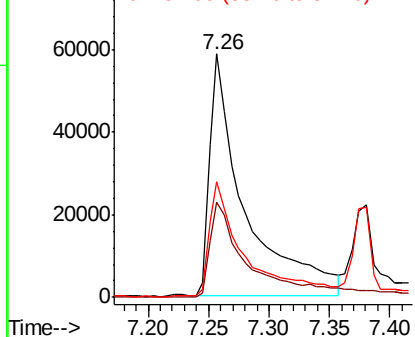
#23
Nitrobenzene-d5
Concen: 17.683 ng
RT: 7.26 min Scan# 879
Delta R.T. -0.01 min
Lab File: BF109844.D
Acq: 12 Oct 2018 20:01

Instrument :
BNA_F
ClientSampleId :
KG-SOIL

Tgt Ion	Ratio	Lower	Upper
82	100		
128	39.2	34.2	51.2
54	47.3	38.6	58.0

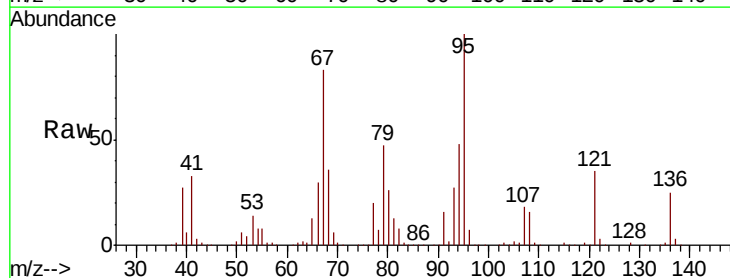


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

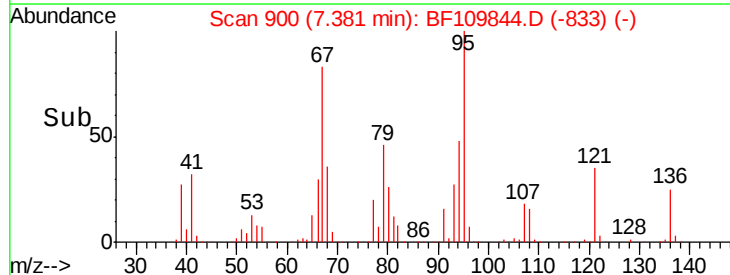
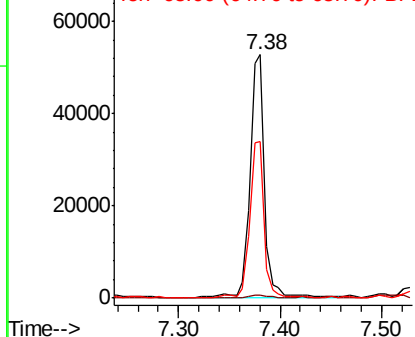


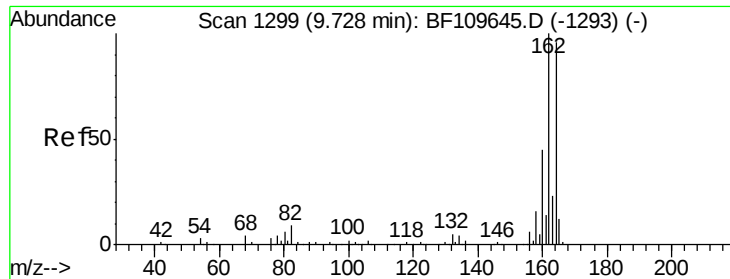
#24
Nitrobenzene
Concen: 7.743 ng
RT: 7.38 min Scan# 900
Delta R.T. 0.09 min
Lab File: BF109844.D
Acq: 12 Oct 2018 20:01

Tgt Ion	Ratio	Lower	Upper
77	100		
123	1.3	35.7	53.5#
65	64.4	10.7	16.1#



Abundance Ion 77.00 (76.70 to 77.70): BF1
Ion 123.00 (122.70 to 123.70): BF1
Ion 65.00 (64.70 to 65.70): BF1

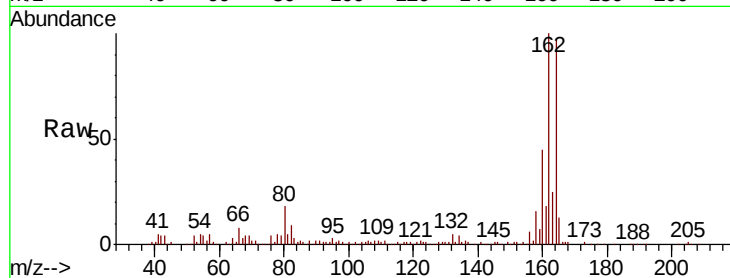




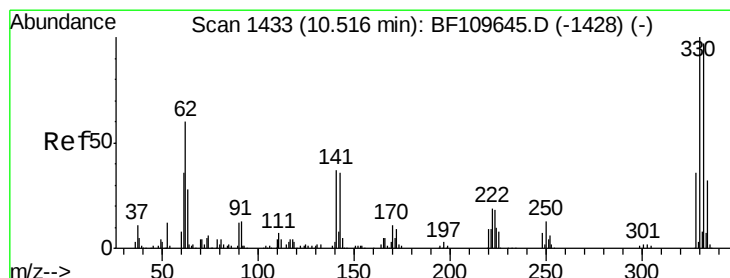
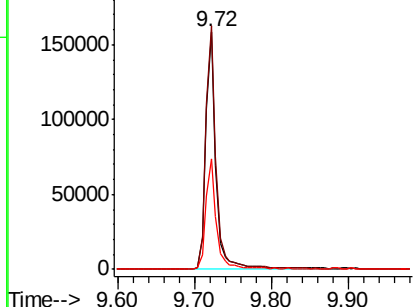
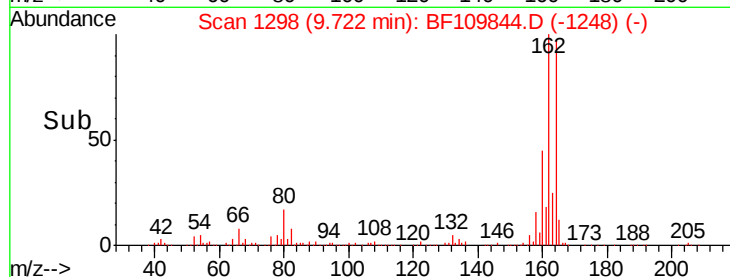
#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 9.72 min Scan# 1298
 Delta R.T. -0.01 min
 Lab File: BF109844.D
 Acq: 12 Oct 2018 20:01

Instrument :
 BNA_F
 ClientSampleId :
 KG-SOIL

Tgt Ion:164 Resp: 149746
 Ion Ratio Lower Upper
 164 100
 162 102.6 83.0 124.6
 160 46.5 37.0 55.6

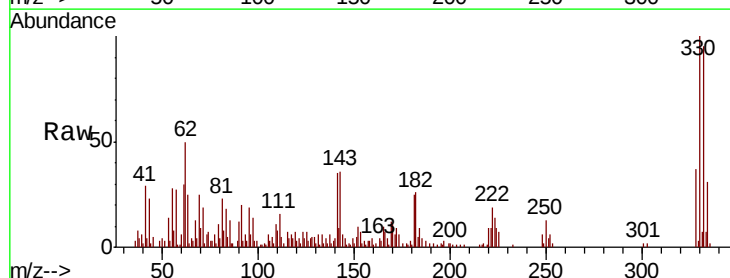


Abundance Ion 164.00 (163.70 to 164.70): E
 Ion 162.00 (161.70 to 162.70): E
 Ion 160.00 (159.70 to 160.70): E

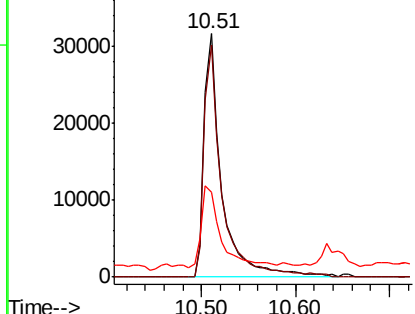
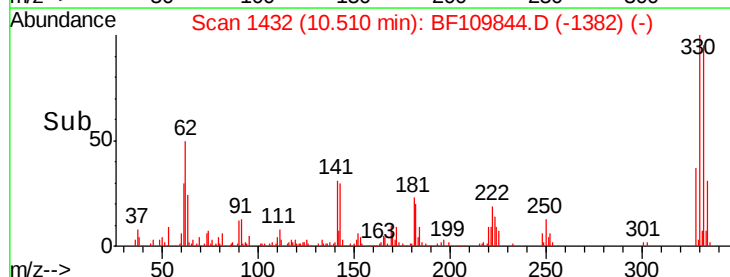


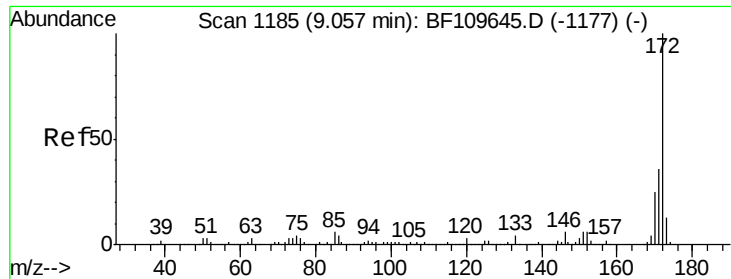
#41
 2,4,6-Tribromophenol
 Concen: 25.738 ng
 RT: 10.51 min Scan# 1432
 Delta R.T. -0.01 min
 Lab File: BF109844.D
 Acq: 12 Oct 2018 20:01

Tgt Ion:330 Resp: 41995
 Ion Ratio Lower Upper
 330 100
 332 96.7 77.1 115.7
 141 37.6 27.0 40.4



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

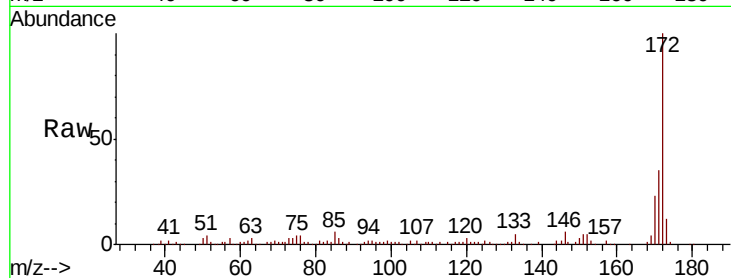




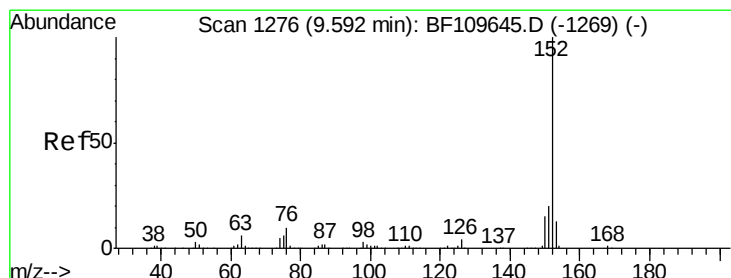
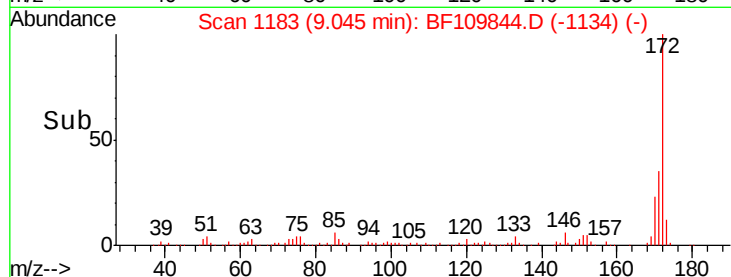
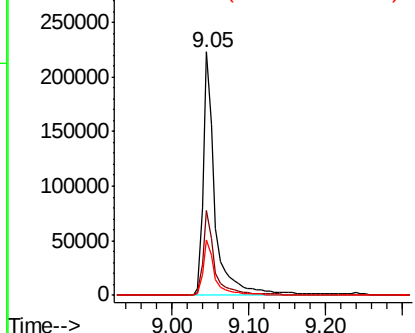
#44
2-Fluorobiphenyl
Concen: 22.291 ng
RT: 9.05 min Scan# 1183
Delta R.T. -0.01 min
Lab File: BF109844.D
Acq: 12 Oct 2018 20:01

Instrument :
BNA_F
ClientSampleId :
KG-SOIL

Tgt Ion:172 Resp: 242371
Ion Ratio Lower Upper
172 100
171 34.7 28.6 43.0
170 22.8 19.7 29.5

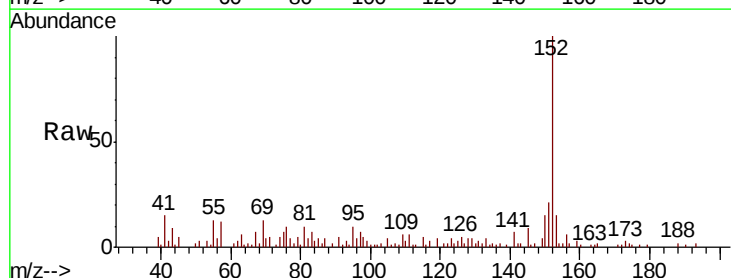


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

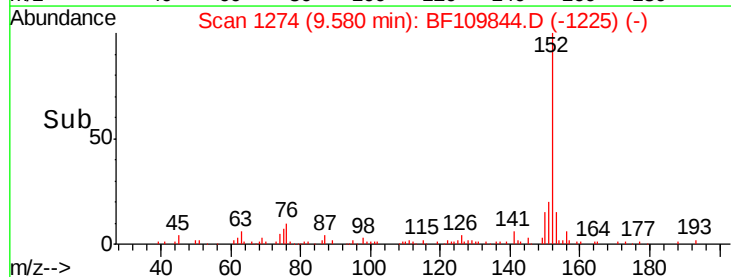
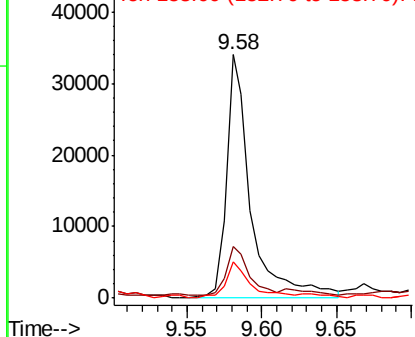


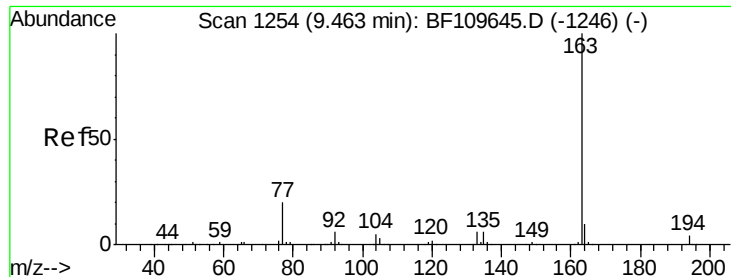
#48
Acenaphthylene
Concen: 2.702 ng
RT: 9.58 min Scan# 1274
Delta R.T. -0.01 min
Lab File: BF109844.D
Acq: 12 Oct 2018 20:01

Tgt Ion:152 Resp: 39473
Ion Ratio Lower Upper
152 100
151 21.2 15.8 23.8
153 15.0 10.4 15.6



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

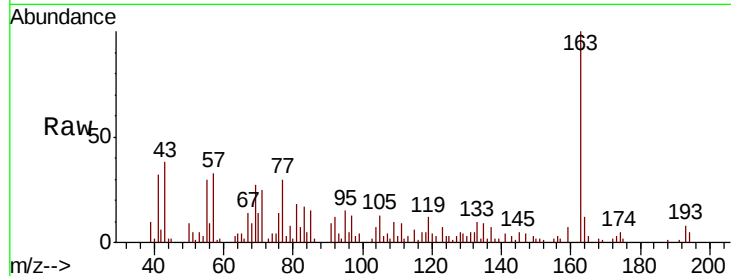




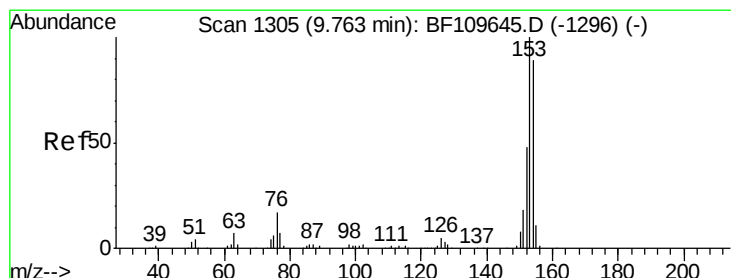
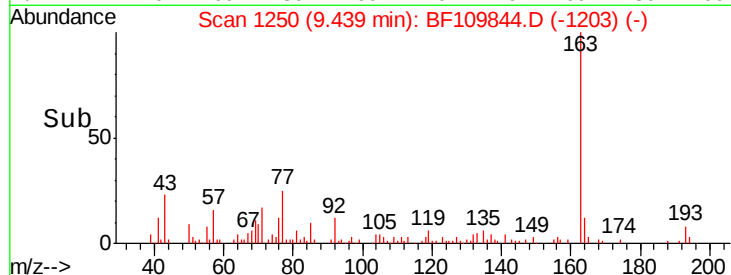
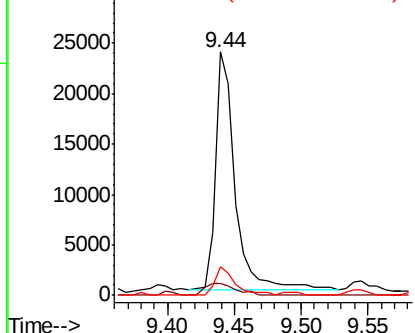
#49
Dimethylphthalate
Concen: 2.266 ng
RT: 9.44 min Scan# 1250
Delta R.T. -0.02 min
Lab File: BF109844.D
Acq: 12 Oct 2018 20:01

Instrument :
BNA_F
ClientSampleId :
KG-SOIL

Tgt Ion:163 Resp: 24890
Ion Ratio Lower Upper
163 100
194 5.1 3.2 4.8#
164 11.5 8.1 12.1

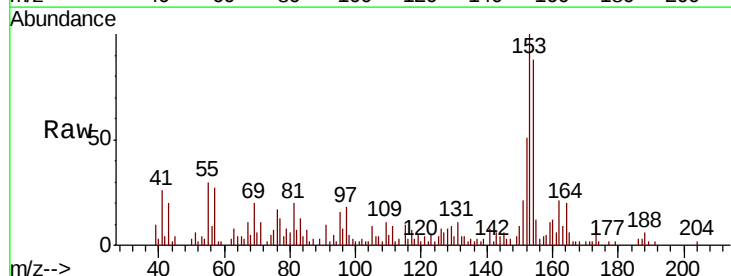


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

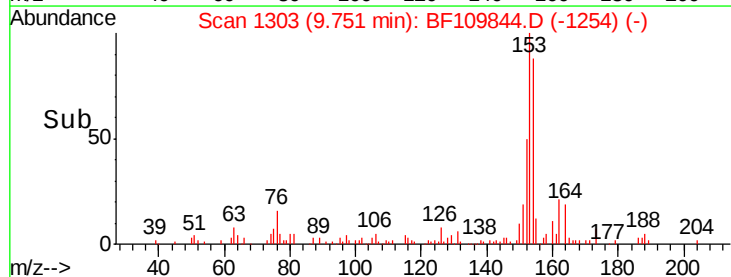
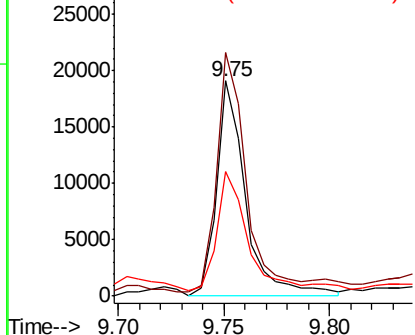


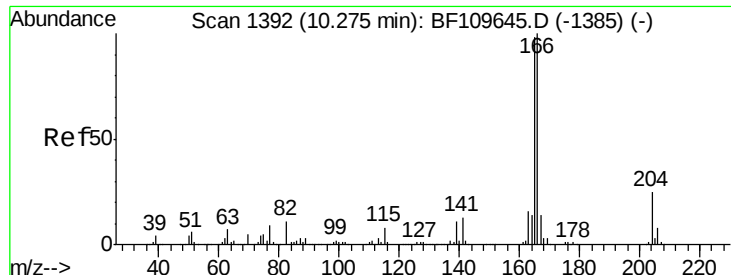
#51
Acenaphthene
Concen: 2.123 ng
RT: 9.75 min Scan# 1303
Delta R.T. -0.01 min
Lab File: BF109844.D
Acq: 12 Oct 2018 20:01

Tgt Ion:154 Resp: 18385
Ion Ratio Lower Upper
154 100
153 113.1 90.1 135.1
152 58.1 43.4 65.2



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

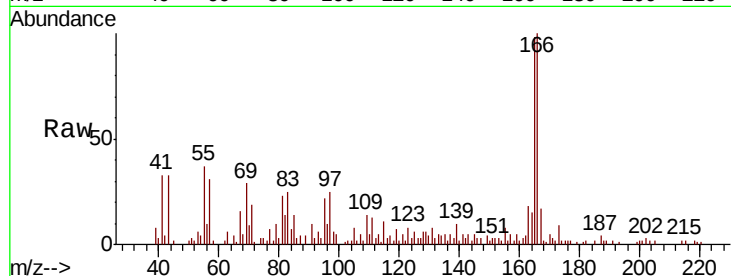




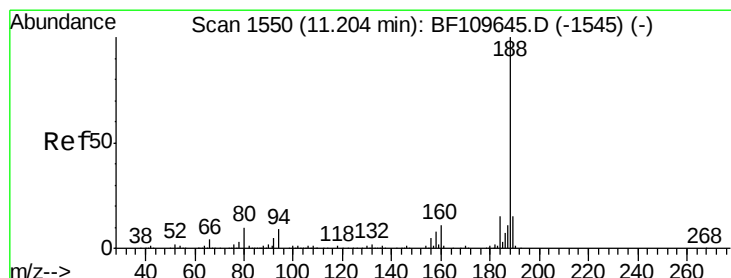
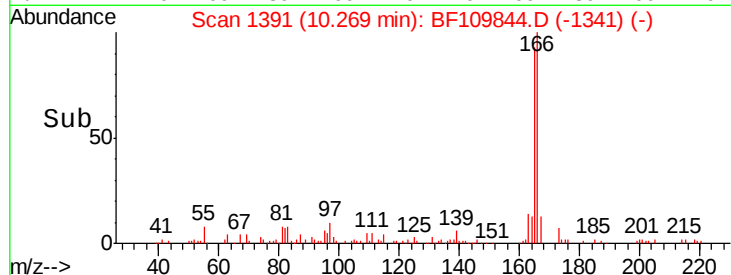
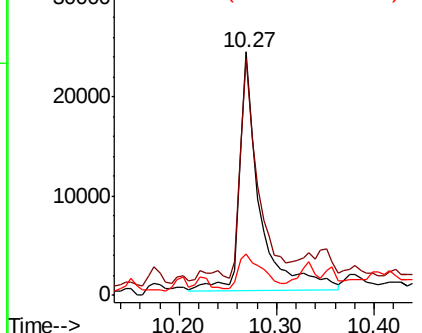
#57
Fluorene
 Concen: 3.561 ng
 RT: 10.27 min Scan# 1391
 Delta R.T. -0.01 min
 Lab File: BF109844.D
 Acq: 12 Oct 2018 20:01

Instrument :
 BNA_F
 ClientSampleId :
 KG-SOIL

Tgt Ion:166 Resp: 34525
 Ion Ratio Lower Upper
 166 100
 165 97.6 78.6 117.8
 167 17.1 10.8 16.2#

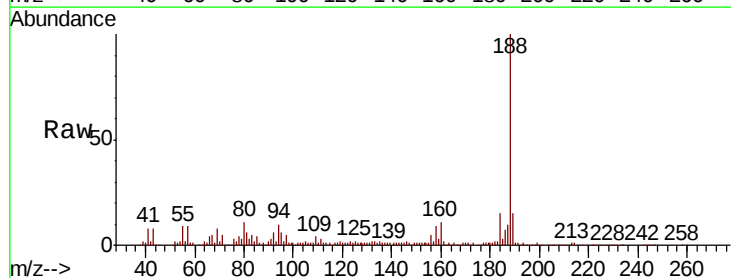


Abundance Ion 166.00 (165.70 to 166.70): E
 Ion 165.00 (164.70 to 165.70): E
 Ion 167.00 (166.70 to 167.70): E

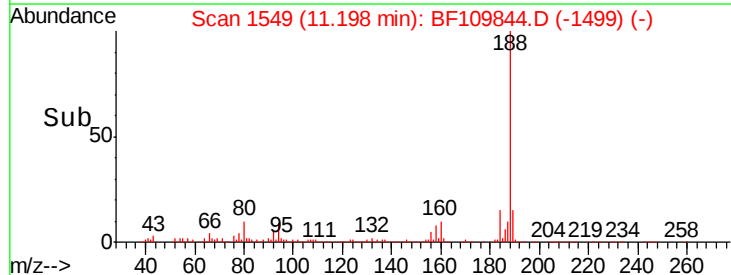
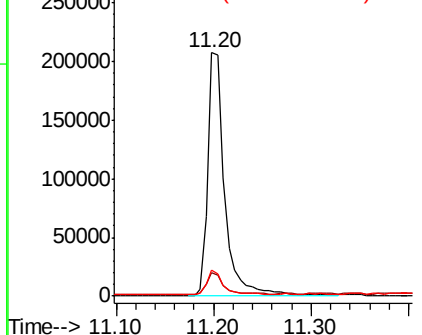


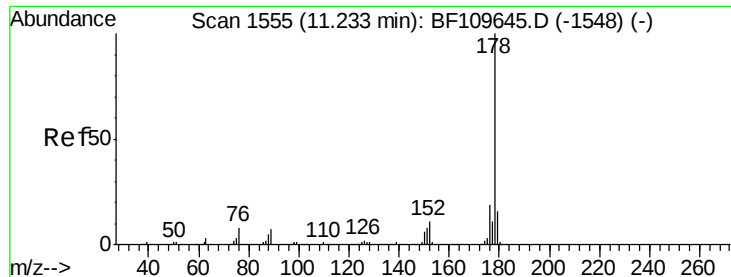
#63
Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.20 min Scan# 1549
 Delta R.T. -0.01 min
 Lab File: BF109844.D
 Acq: 12 Oct 2018 20:01

Tgt Ion:188 Resp: 254003
 Ion Ratio Lower Upper
 188 100
 94 9.7 7.2 10.8
 80 10.5 7.9 11.9



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF1
 Ion 80.00 (79.70 to 80.70): BF1

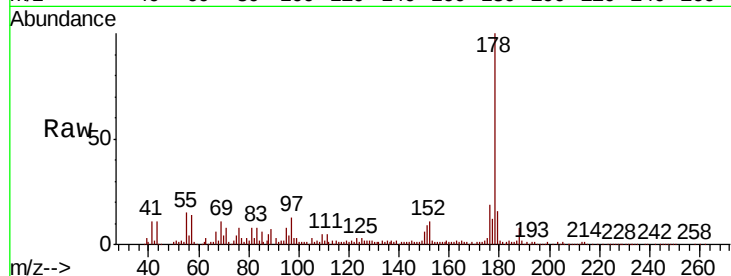




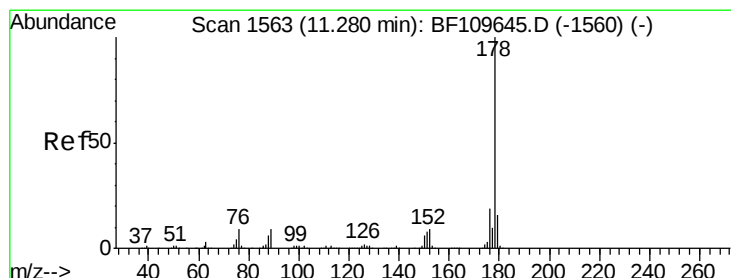
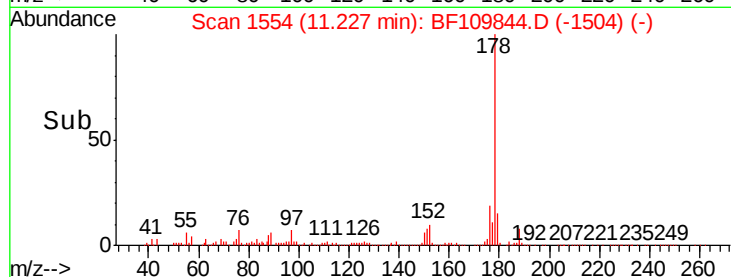
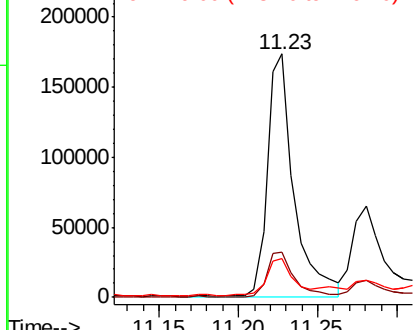
#70
Phenanthrene
Concen: 15.916 ng
RT: 11.23 min Scan# 1554
Delta R.T. -0.01 min
Lab File: BF109844.D
Acq: 12 Oct 2018 20:01

Instrument :
BNA_F
ClientSampleId :
KG-SOIL

Tgt Ion:178 Resp: 202310
Ion Ratio Lower Upper
178 100
176 18.8 15.5 23.3
179 16.0 12.5 18.7

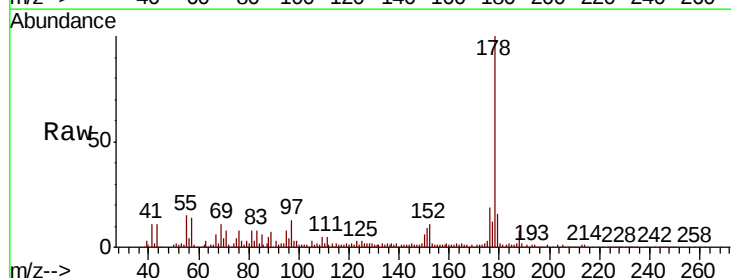


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

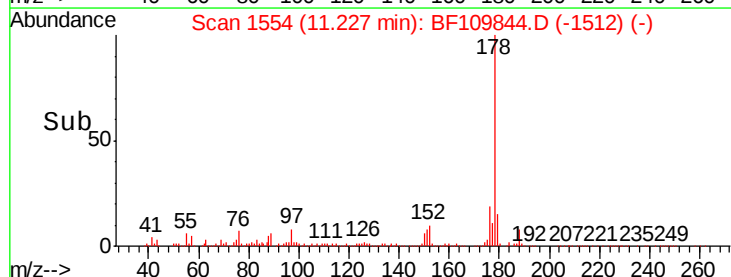
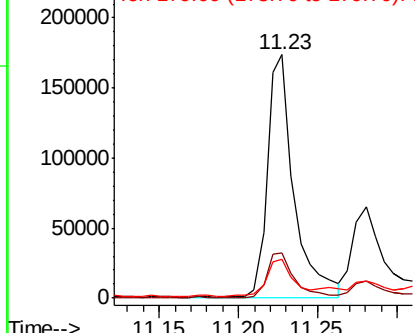


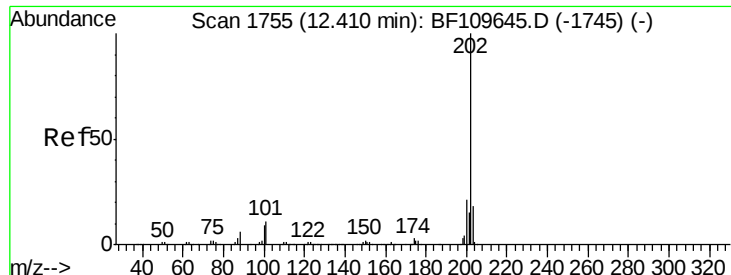
#71
Anthracene
Concen: 15.397 ng
RT: 11.23 min Scan# 1554
Delta R.T. -0.05 min
Lab File: BF109844.D
Acq: 12 Oct 2018 20:01

Tgt Ion:178 Resp: 202310
Ion Ratio Lower Upper
178 100
176 18.8 15.4 23.2
179 16.0 12.6 18.8



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

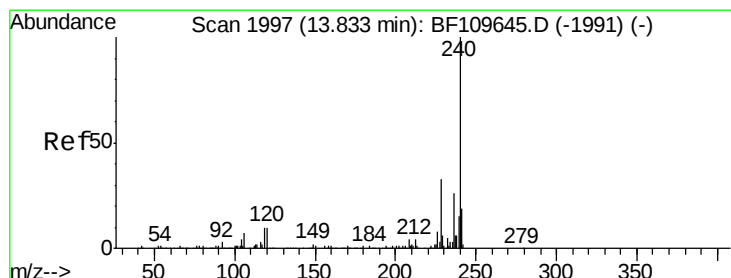
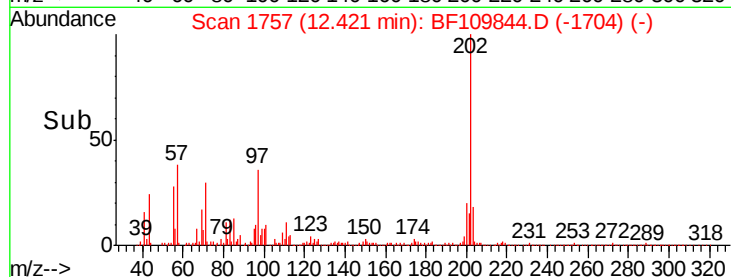
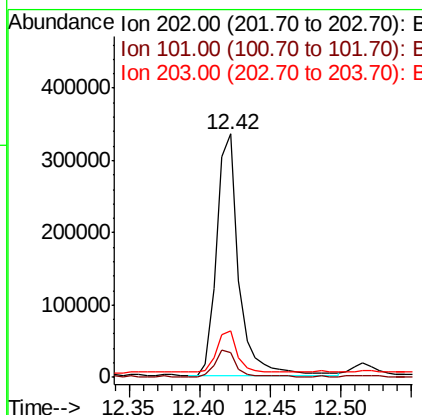
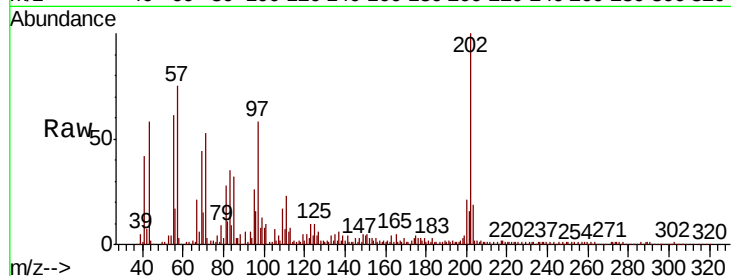




#74
 Fluoranthene
 Concen: 27.571 ng
 RT: 12.42 min Scan# 1757
 Delta R.T. 0.01 min
 Lab File: BF109844.D
 Acq: 12 Oct 2018 20:01

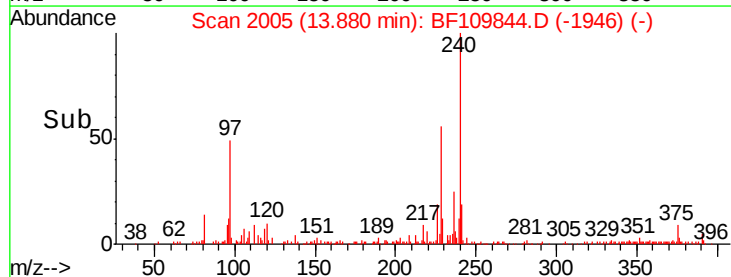
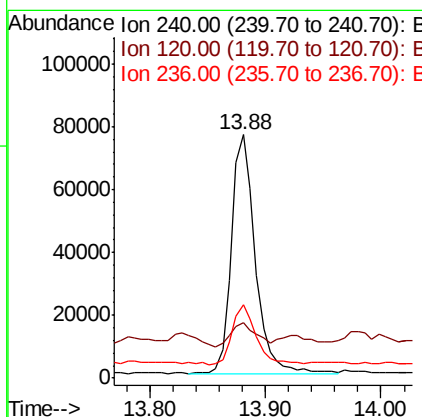
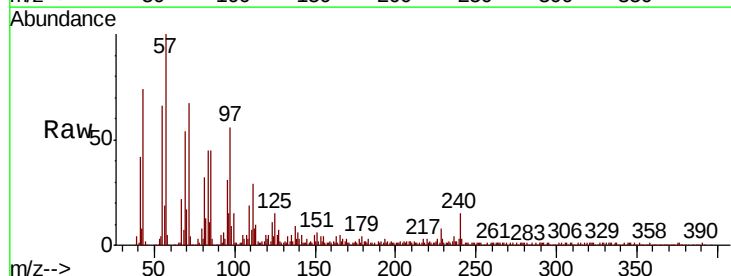
Instrument :
 BNA_F
 ClientSampleId :
 KG-SOIL

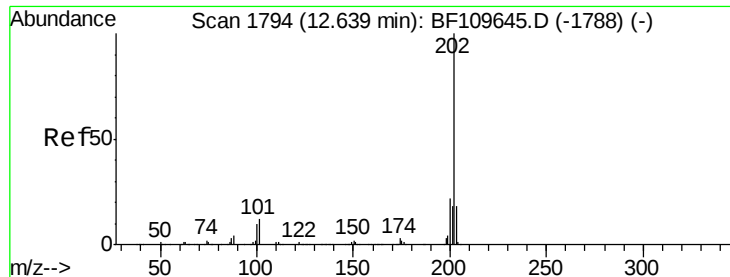
Tgt Ion	Ratio	Lower	Upper
202	100		
101	10.3	0.0	31.4
203	19.2	0.0	37.7



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.88 min Scan# 2005
 Delta R.T. 0.05 min
 Lab File: BF109844.D
 Acq: 12 Oct 2018 20:01

Tgt Ion	Ratio	Lower	Upper
240	100		
120	22.7	8.3	12.5#
236	30.3	21.2	31.8

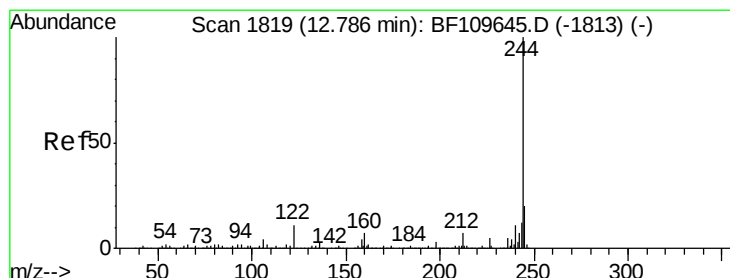
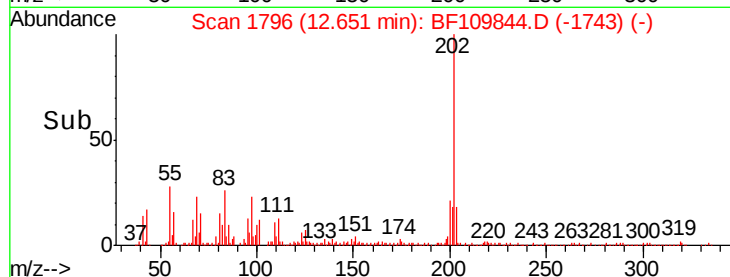
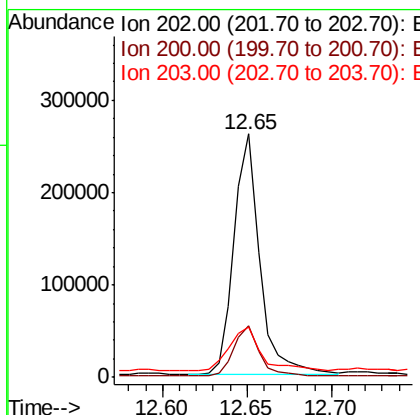
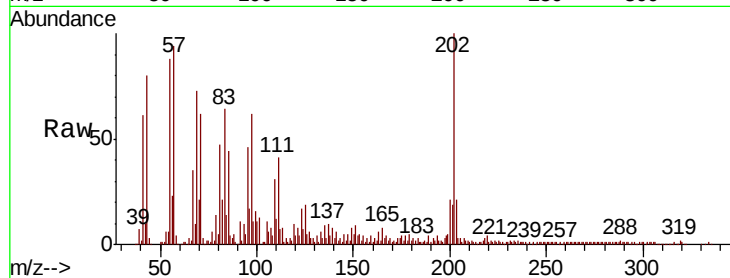




#77
 Pyrene
 Concen: 35.058 ng
 RT: 12.65 min Scan# 1796
 Delta R.T. 0.01 min
 Lab File: BF109844.D
 Acq: 12 Oct 2018 20:01

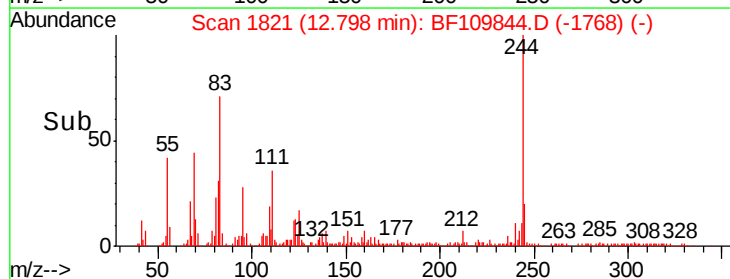
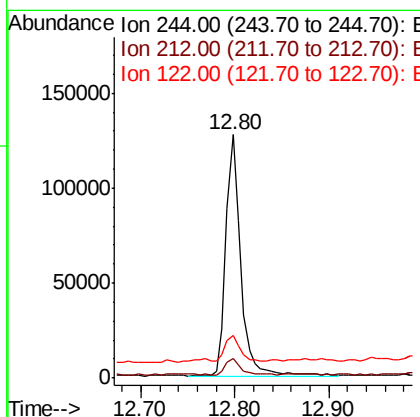
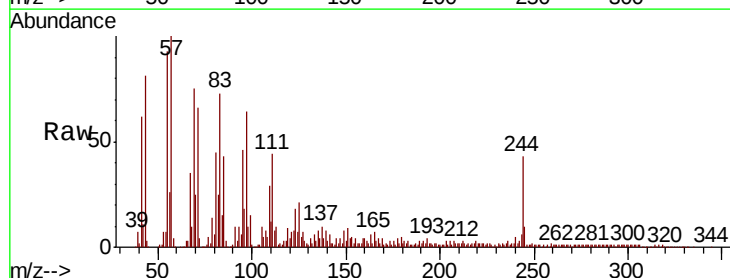
Instrument :
 BNA_F
 ClientSampleId :
 KG-SOIL

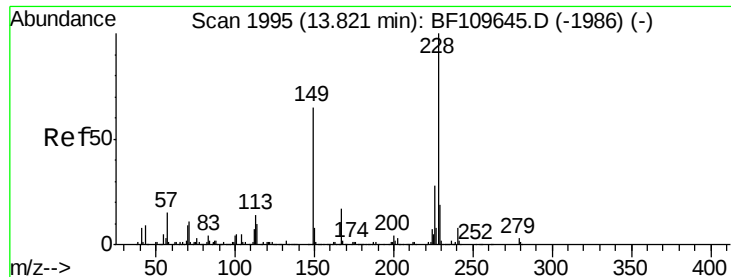
Tgt Ion	Ratio	Lower	Upper
202	100		
200	21.2	17.8	26.6
203	20.6	14.2	21.4



#78
 Terphenyl-d14
 Concen: 24.962 ng
 RT: 12.80 min Scan# 1821
 Delta R.T. 0.01 min
 Lab File: BF109844.D
 Acq: 12 Oct 2018 20:01

Tgt Ion	Ratio	Lower	Upper
244	100		
212	8.0	5.8	8.8
122	17.6	8.7	13.1#





#80

Benzo(a)anthracene

Concen: 19.033 ng

RT: 13.87 min Scan# 2003

Delta R.T. 0.05 min

Lab File: BF109844.D

Acq: 12 Oct 2018 20:01

Instrument :

BNA_F

ClientSampleId :

KG-SOIL

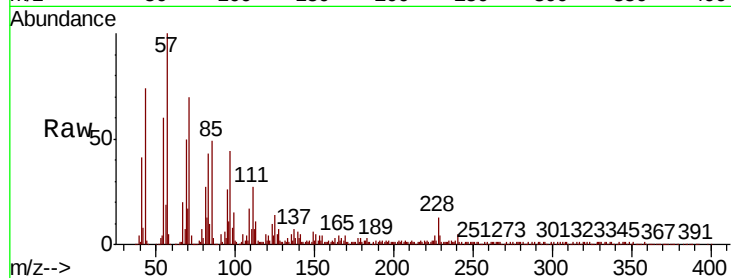
Tgt Ion:228 Resp: 114099

Ion Ratio Lower Upper

228 100

226 31.5 22.1 33.1

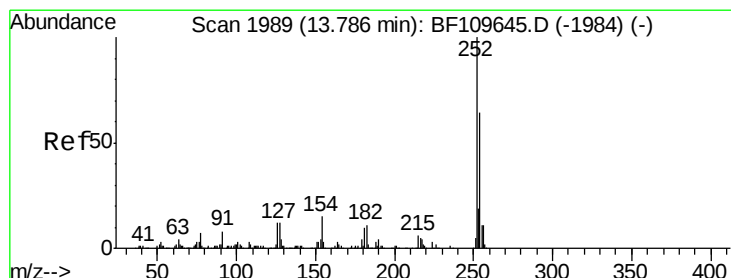
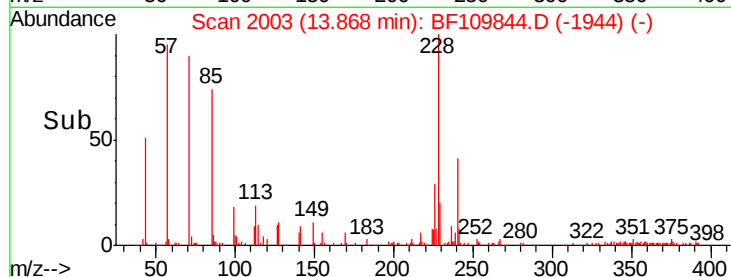
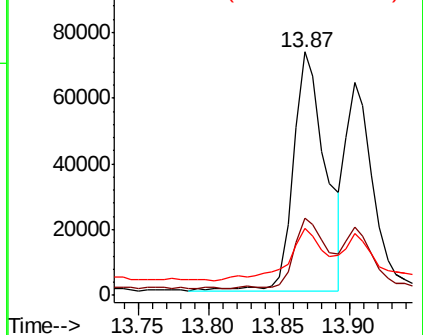
229 27.5 15.6 23.4#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#81

3,3'-Dichlorobenzidine

Concen: 2.390 ng

RT: 13.87 min Scan# 2003

Delta R.T. 0.08 min

Lab File: BF109844.D

Acq: 12 Oct 2018 20:01

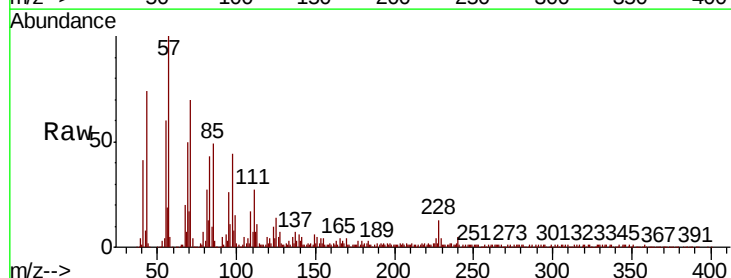
Tgt Ion:252 Resp: 5770

Ion Ratio Lower Upper

252 100

254 35.8 51.3 76.9#

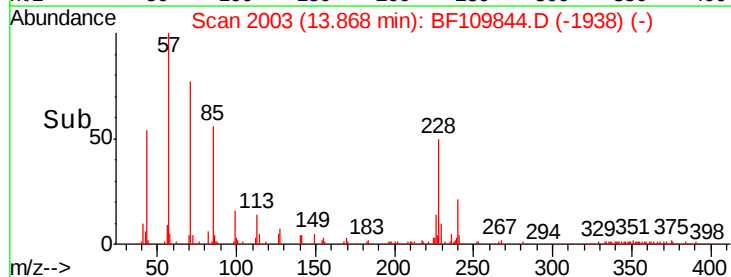
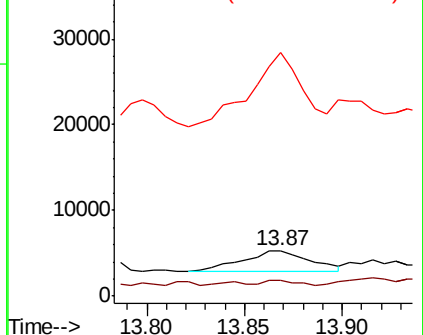
126 534.1 9.4 14.2#

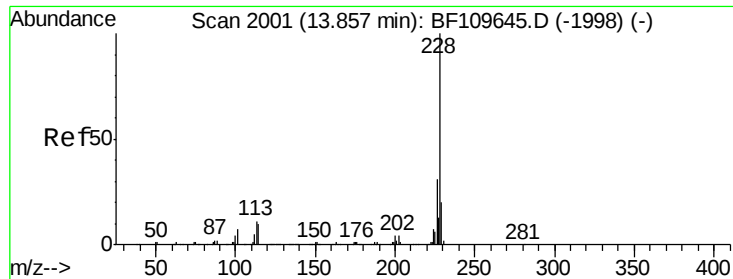


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 254.00 (253.70 to 254.70): E

Ion 126.00 (125.70 to 126.70): E





#82

Chrysene

Concen: 13.650 ng

RT: 13.90 min Scan# 2009

Delta R.T. 0.05 min

Lab File: BF109844.D

Acq: 12 Oct 2018 20:01

Instrument :

BNA_F

ClientSampleId :

KG-SOIL

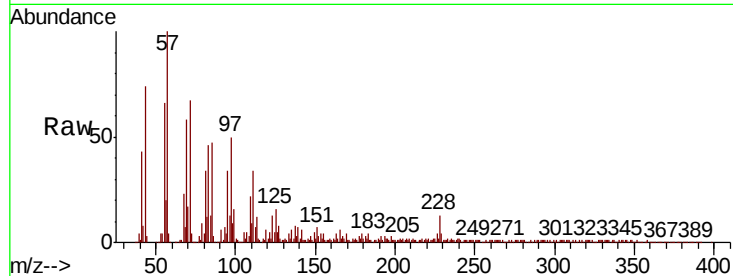
Tgt Ion:228 Resp: 85956

Ion Ratio Lower Upper

228 100

226 31.8 24.7 37.1

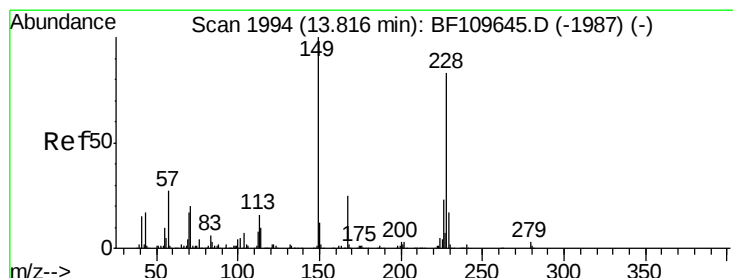
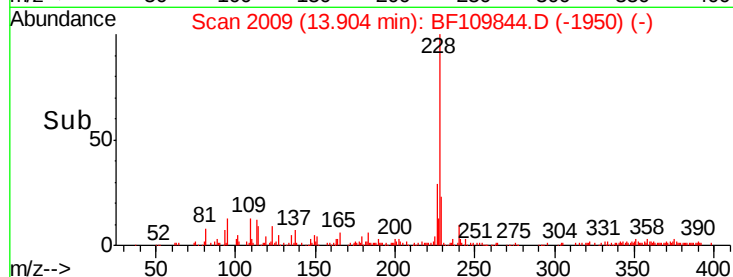
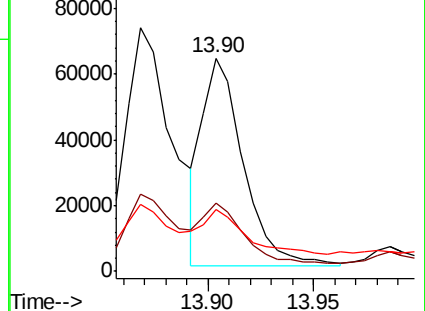
229 29.0 15.9 23.9#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 8.603 ng

RT: 13.86 min Scan# 2001

Delta R.T. 0.04 min

Lab File: BF109844.D

Acq: 12 Oct 2018 20:01

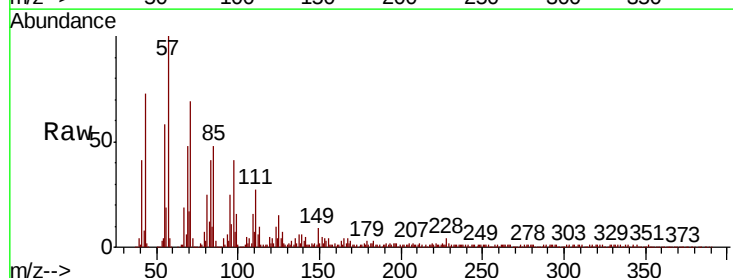
Tgt Ion:149 Resp: 36218

Ion Ratio Lower Upper

149 100

167 42.1 19.8 29.8#

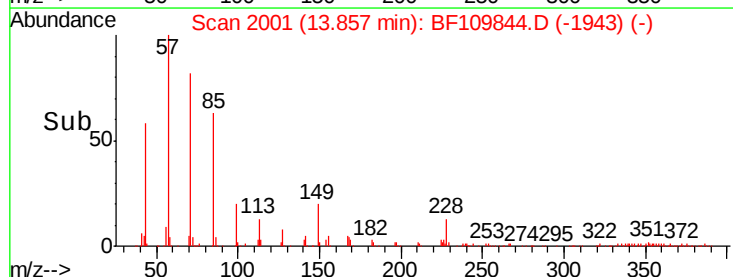
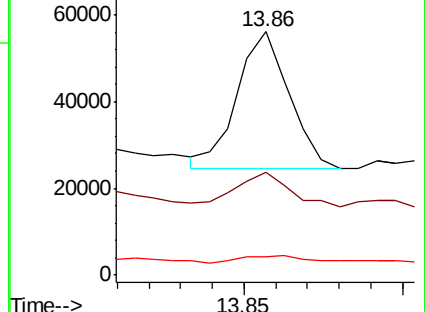
279 7.8 2.7 4.1#

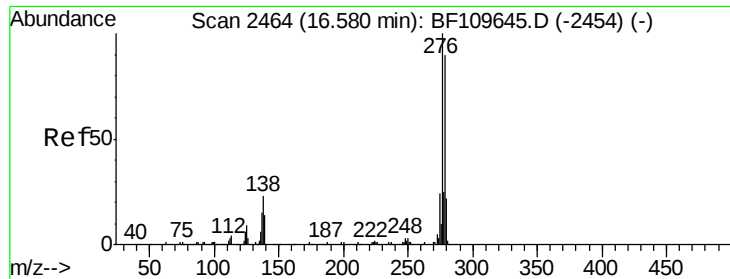


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#85

Indeno(1,2,3-cd)pyrene

Concen: 10.389 ng

RT: 16.70 min Scan# 2484

Delta R.T. 0.12 min

Lab File: BF109844.D

Acq: 12 Oct 2018 20:01

Instrument :

BNA_F

ClientSampleId :

KG-SOIL

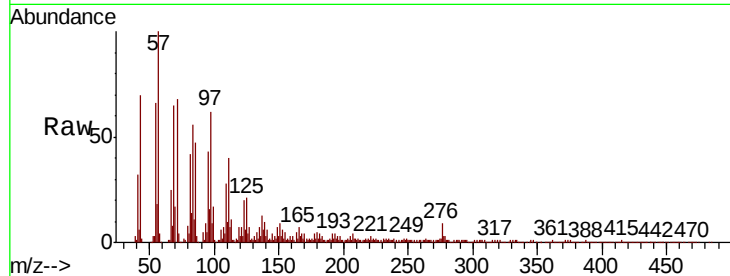
Tgt Ion:276 Resp: 46824

Ion Ratio Lower Upper

276 100

138 23.0 18.5 27.7

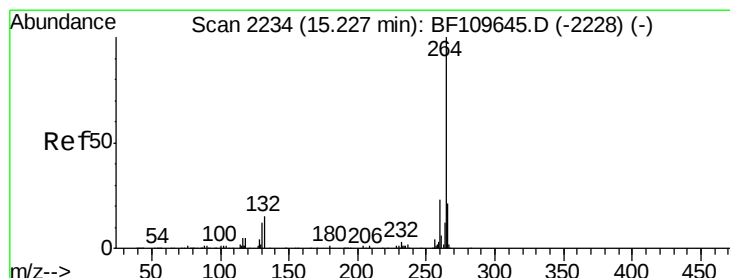
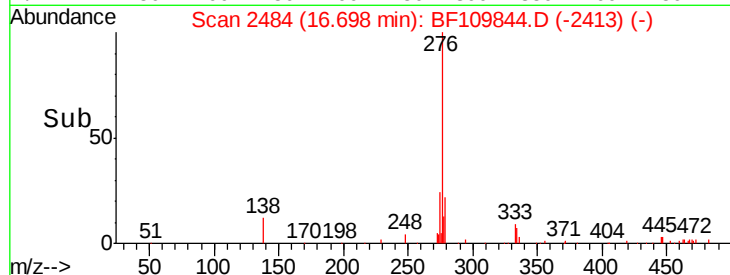
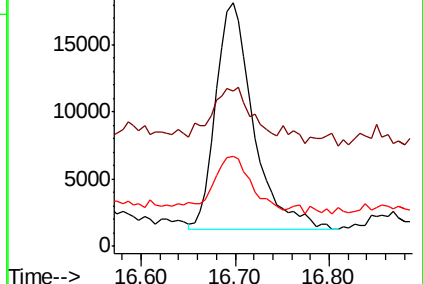
277 22.0 20.0 30.0



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: 20.000 ng

RT: 15.31 min Scan# 2248

Delta R.T. 0.08 min

Lab File: BF109844.D

Acq: 12 Oct 2018 20:01

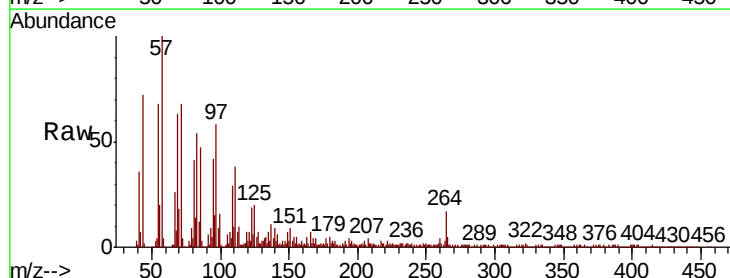
Tgt Ion:264 Resp: 106361

Ion Ratio Lower Upper

264 100

260 24.9 18.7 28.1

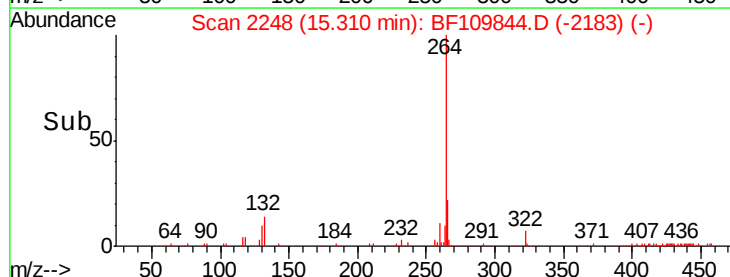
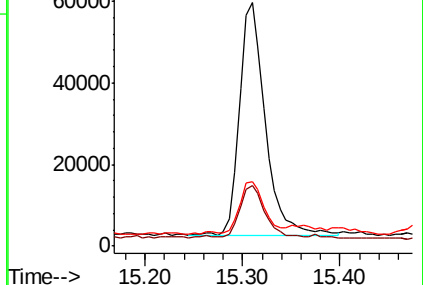
265 26.7 16.7 25.1#

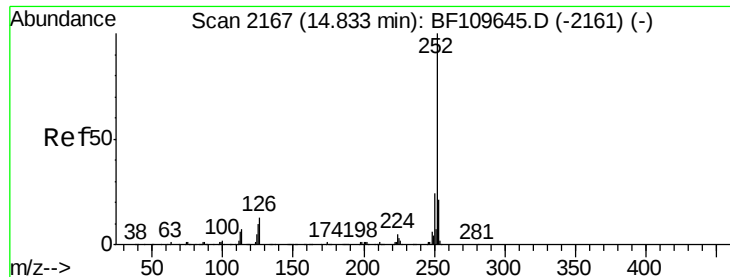


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 23.070 ng

RT: 14.90 min Scan# 2179

Delta R.T. 0.07 min

Lab File: BF109844.D

Acq: 12 Oct 2018 20:01

Instrument :

BNA_F

ClientSampleId :

KG-SOIL

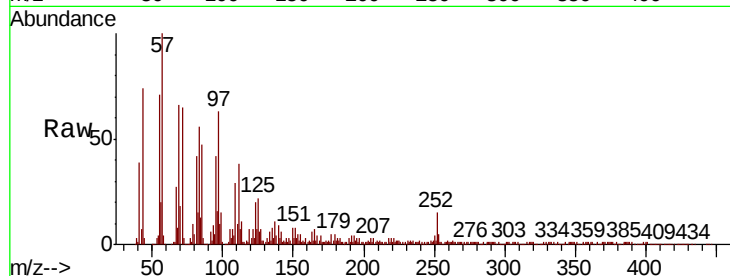
Tgt Ion:252 Resp: 135597

Ion Ratio Lower Upper

252 100

253 31.3 17.2 25.8#

125 143.0 8.2 12.4#

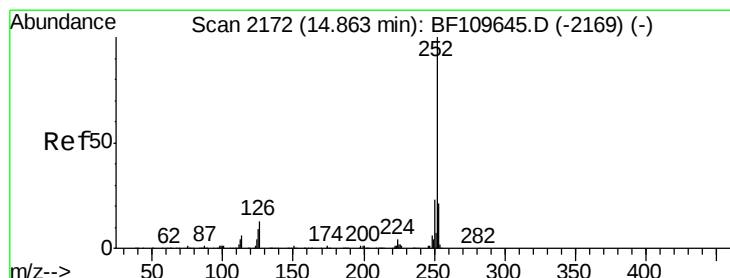
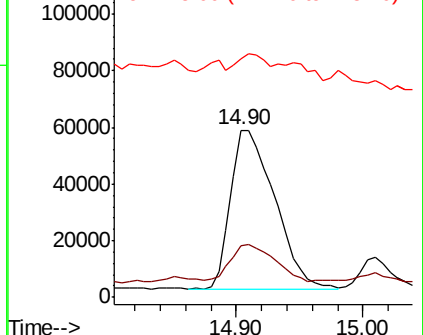
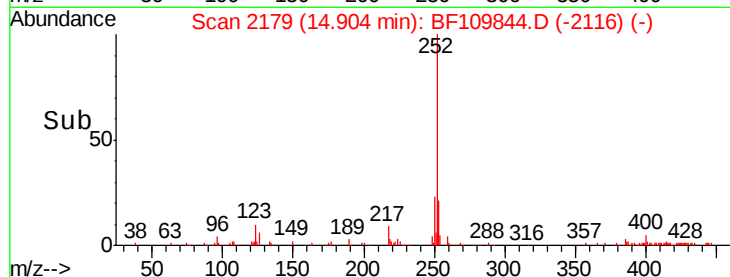


Abundance

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: 22.961 ng

RT: 14.90 min Scan# 2179

Delta R.T. 0.04 min

Lab File: BF109844.D

Acq: 12 Oct 2018 20:01

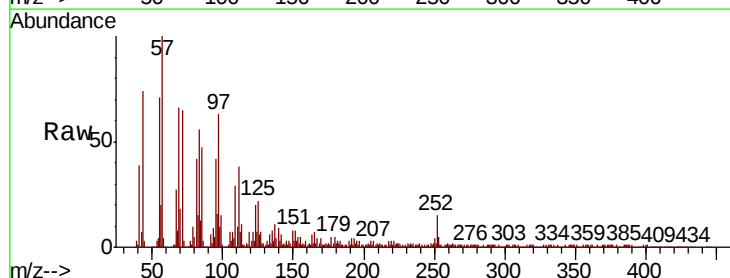
Tgt Ion:252 Resp: 135597

Ion Ratio Lower Upper

252 100

253 31.3 17.2 25.8#

125 143.0 7.4 11.0#

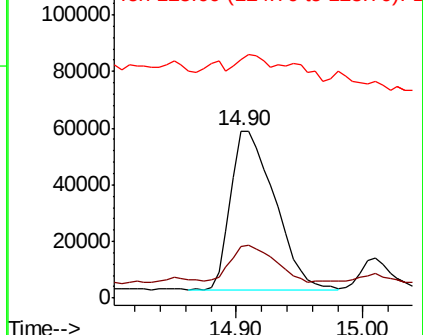
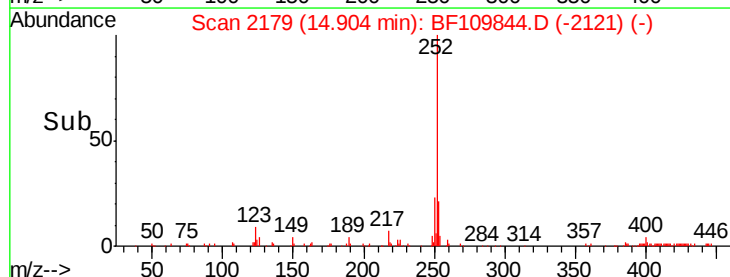


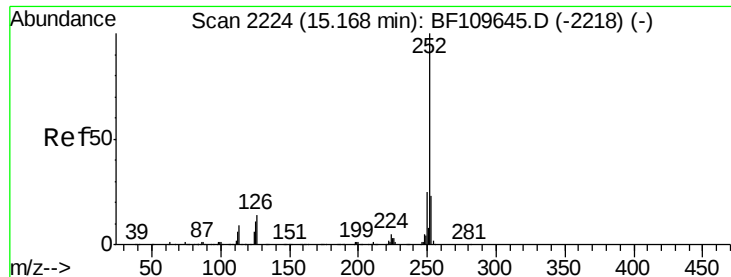
Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 13.136 ng

RT: 15.25 min Scan# 2238

Delta R.T. 0.08 min

Lab File: BF109844.D

Acq: 12 Oct 2018 20:01

Instrument :

BNA_F

ClientSampleId :

KG-SOIL

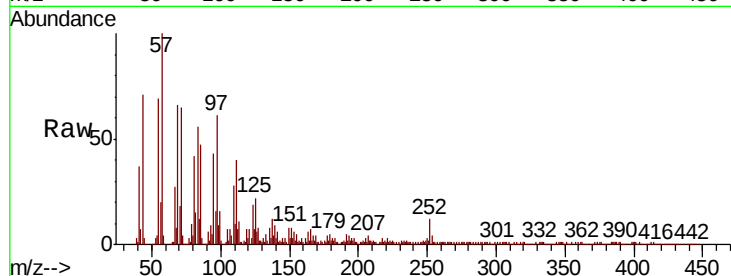
Tgt Ion:252 Resp: 70063

Ion Ratio Lower Upper

252 100

253 32.3 18.2 27.4#

125 191.6 9.0 13.6#

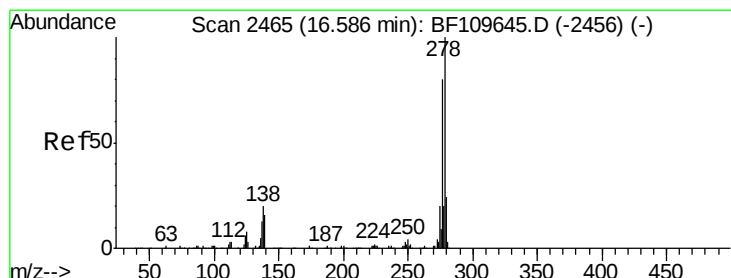
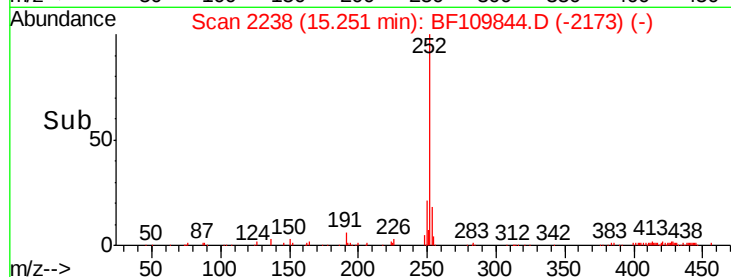
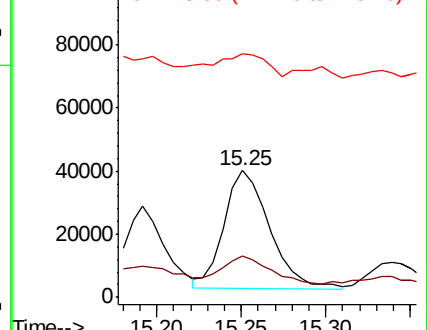


Abundance

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



#90

Dibenzo(a,h)anthracene

Concen: 2.561 ng

RT: 16.70 min Scan# 2484

Delta R.T. 0.11 min

Lab File: BF109844.D

Acq: 12 Oct 2018 20:01

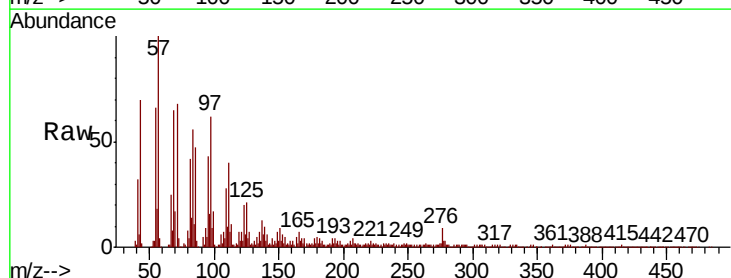
Tgt Ion:278 Resp: 11220

Ion Ratio Lower Upper

278 100

139 323.1 12.7 19.1#

279 41.4 19.0 28.4#

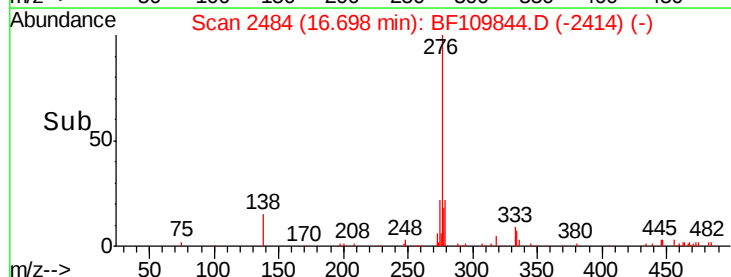
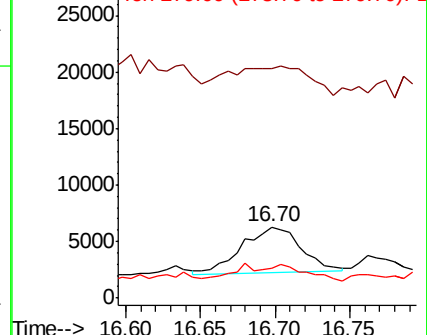


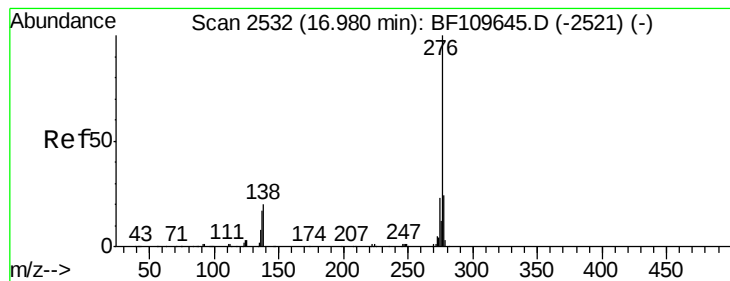
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#91

Benzo(g,h,i)perylene

Concen: 9.561 ng

RT: 17.12 min Scan# 2555

Delta R.T. 0.14 min

Lab File: BF109844.D

Acq: 12 Oct 2018 20:01

Instrument :

BNA_F

ClientSampleId :

KG-SOIL

Tgt Ion:276 Resp: 41825

Ion Ratio Lower Upper

276 100

277 34.6 18.8 28.2#

138 56.7 16.0 24.0#

