

Data Path : Z:\HPCHEM1\BNA F\DATA\BF091517\
 Data File : BF098594.D
 Acq On : 16 Sep 2017 3:08
 Operator : SJ/JU
 Sample : I5205-02 2X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-STOCKPILE-OUTSIDE

Quant Time: Sep 16 04:24:47 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Sep 12 02:14:50 2017
 Response via : Initial Calibration

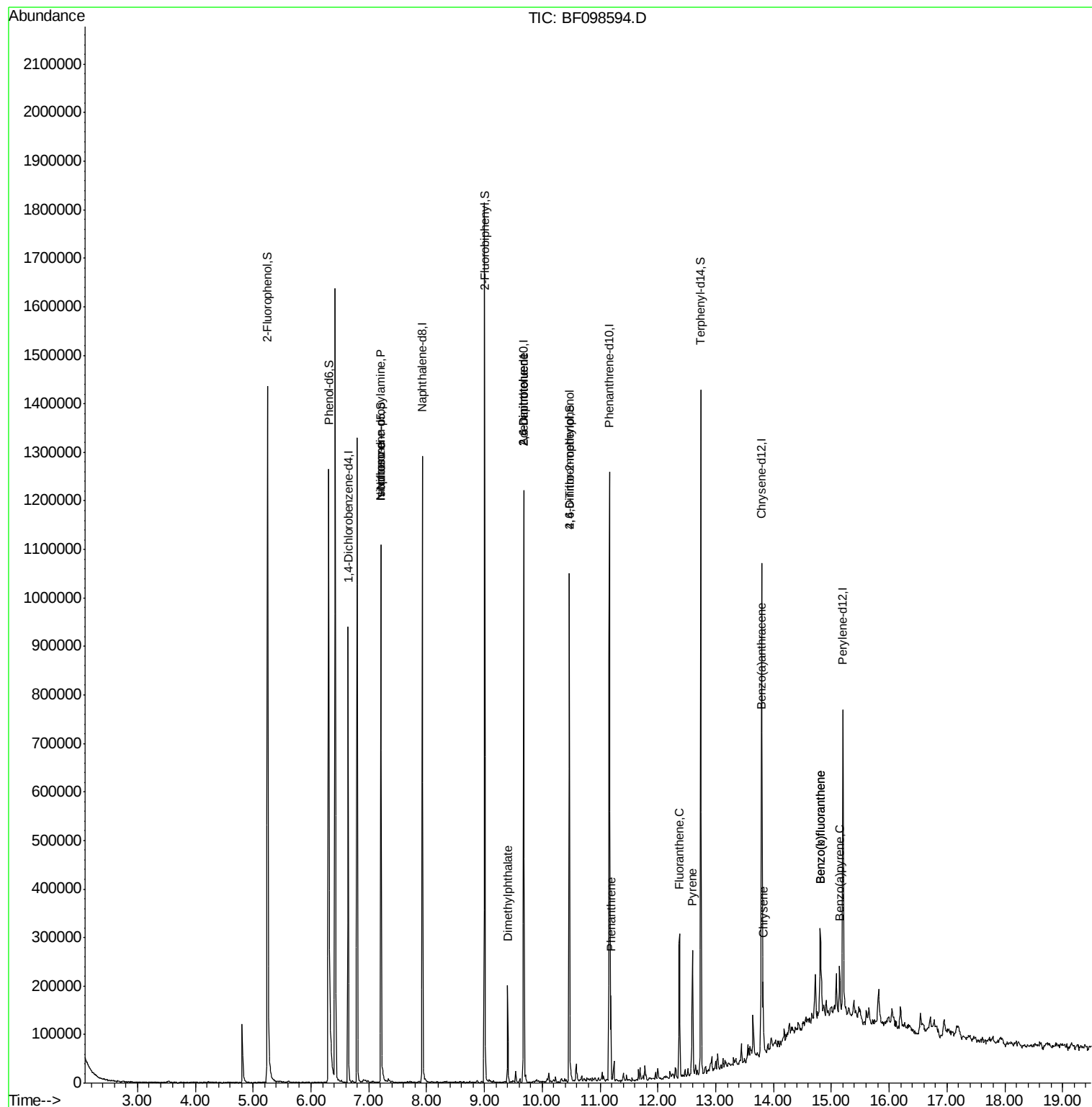
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.64	152	127344	20.00	ng	-0.03
21) Naphthalene-d8	7.93	136	541414	20.00	ng	-0.02
38) Acenaphthene-d10	9.68	164	236073	20.00	ng	-0.02
63) Phenanthrene-d10	11.16	188	411369	20.00	ng	-0.02
75) Chrysene-d12	13.80	240	291307	20.00	ng	-0.02
86) Perylene-d12	15.20	264	262318	20.00	ng	-0.02
System Monitoring Compounds						
5) 2-Fluorophenol	5.25	112	451471	52.42	ng	-0.03
7) Phenol-d6	6.30	99	549091	50.21	ng	-0.02
23) Nitrobenzene-d5	7.21	82	331590	34.14	ng	-0.03
41) 2,4,6-Tribromophenol	10.47	330	98302	62.39	ng	-0.02
44) 2-Fluorobiphenyl	9.00	172	510929	36.68	ng	-0.03
78) Terphenyl-d14	12.75	244	368805	27.33	ng	-0.02
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.21	70	44241	6.432	ng	# 83
25) Isophorone	7.21	82	331235	16.858	ng	# 67
49) Dimethylphthalate	9.40	163	76137	4.166	ng	99
50) 2,6-Dinitrotoluene	9.68	165	30579	8.146	ng	# 34
56) 2,4-Dinitrotoluene	9.68	165	30579	6.701	ng	# 34
64) 4,6-Dinitro-2-methylphenol	10.47	198	246	5.052	ng	# 1
70) Phenanthrene	11.19	178	61161	2.805	ng	97
74) Fluoranthene	12.37	202	119197	5.460	ng	97
77) Pyrene	12.60	202	105277	4.581	ng	96
80) Benzo(a)anthracene	13.79	228	47632	2.789	ng	99
82) Chrysene	13.82	228	51919	3.007	ng	99
87) Benzo(b)fluoranthene	14.81	252	93875	5.692	ng	98
88) Benzo(k)fluoranthene	14.81	252	93875	6.097	ng	97
89) Benzo(a)pyrene	15.14	252	41061	2.794	ng	98

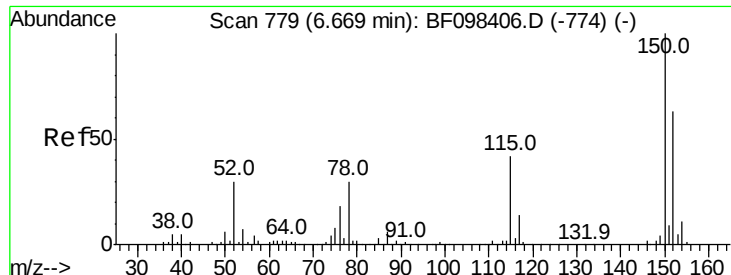
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA F\DATA\BF091517\
Data File : BF098594.D
Acq On : 16 Sep 2017 3:08
Operator : SJ/JU
Sample : I5205-02 2X
Misc :
ALS Vial : 23 Sample Multiplier: 1

Instrument :
BNA_F
ClientSampleId :
SOIL-STOCKPILE-OUTSIDE

Quant Time: Sep 16 04:24:47 2017
Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF091117.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue Sep 12 02:14:50 2017
Response via : Initial Calibration





#1

1,4-Dichlorobenzene-d4

Concen: 20.000 ng

RT: 6.64 min Scan# 774

Delta R.T. -0.03 min

Lab File: BF098594.D

Acq: 16 Sep 2017 3:08

Instrument :

BNA_F

ClientSampleId :

SOIL-STOCKPILE-OUTSIDE

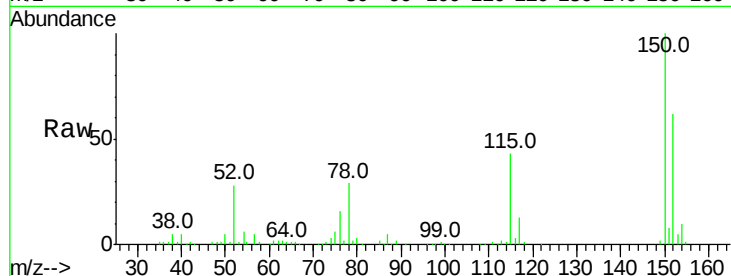
Tot Ion:152 Resp: 127344

Ion Ratio Lower Upper

152 100

150 160.4 126.2 189.2

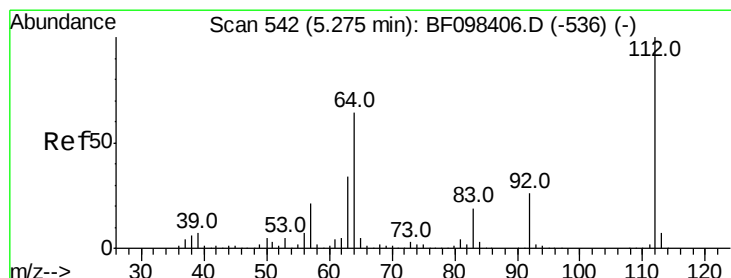
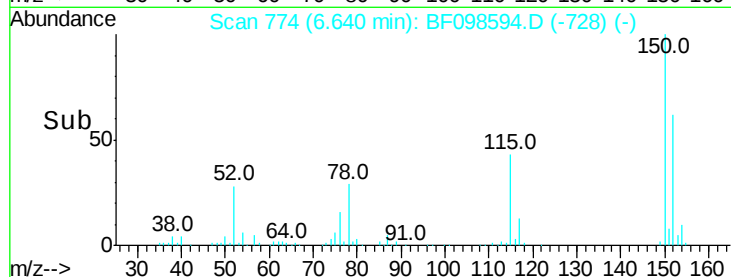
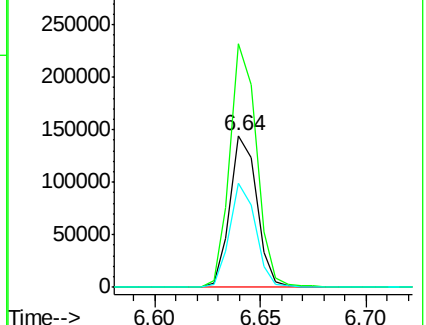
115 69.0 52.2 78.2



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: 52.418 ng

RT: 5.25 min Scan# 537

Delta R.T. -0.03 min

Lab File: BF098594.D

Acq: 16 Sep 2017 3:08

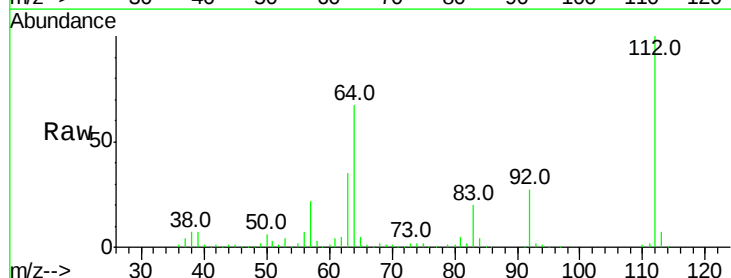
Tgt Ion:112 Resp: 451471

Ion Ratio Lower Upper

112 100

64 67.5 46.0 69.0

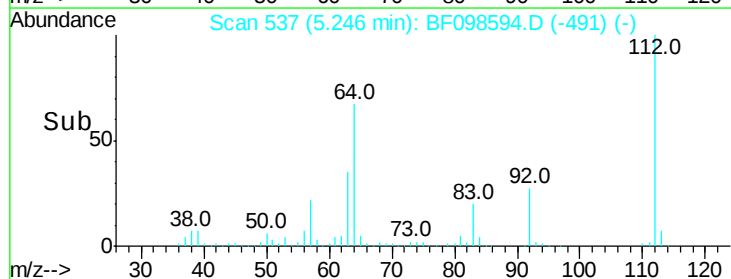
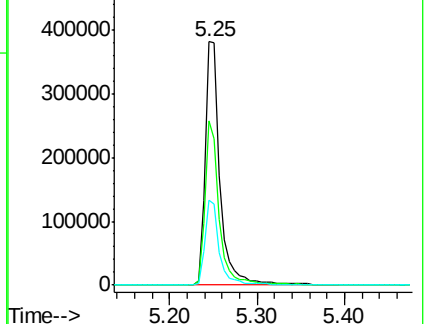
63 34.7 23.4 35.0

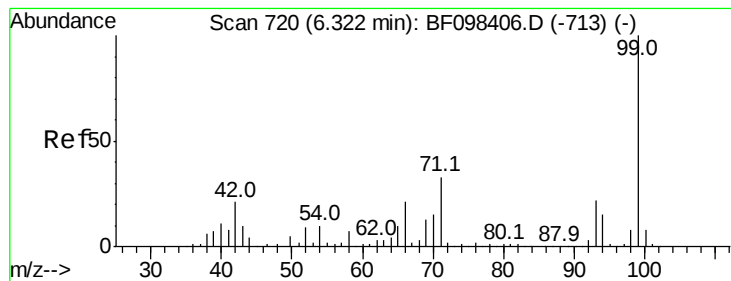


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#7

Phenol-d6

Concen: 50.212 ng

RT: 6.30 min Scan# 717

Delta R.T. -0.02 min

Lab File: BF098594.D

Acq: 16 Sep 2017 3:08

Instrument :

BNA_F

ClientSampleId :

SOIL-STOCKPILE-OUTSIDE

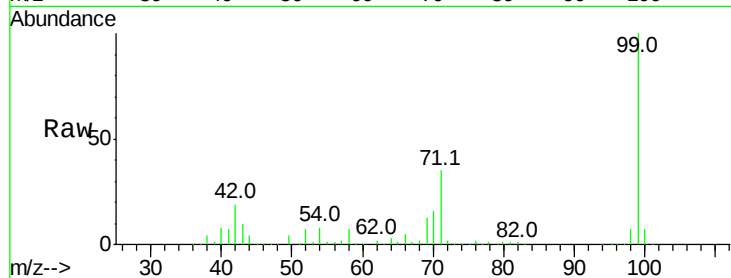
Tot Ion: 99 Resp: 549091

Ion Ratio Lower Upper

99 100

42 19.3 13.5 20.3

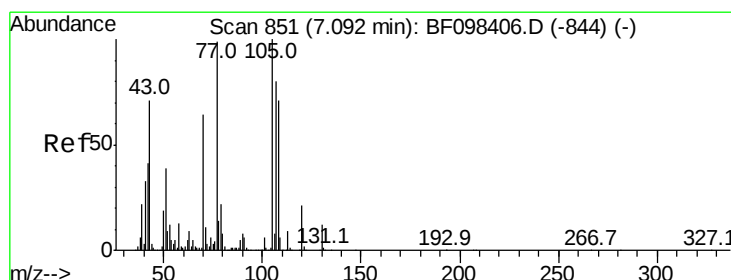
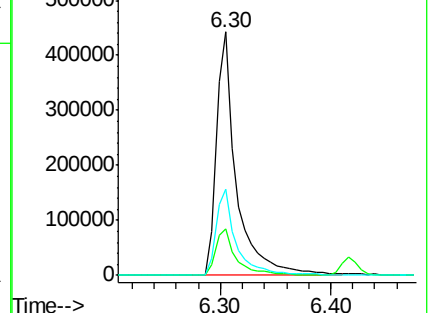
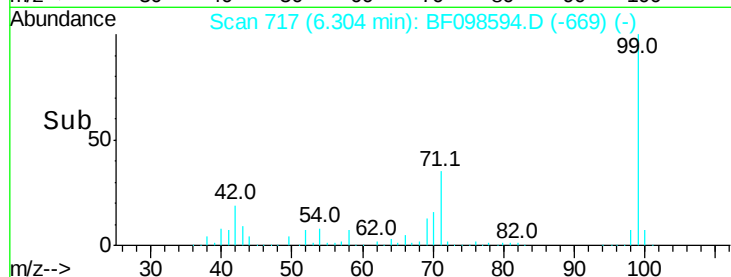
71 35.4 24.5 36.7



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



#19

n-Nitroso-di-n-propylamine

Concen: 6.432 ng

RT: 7.21 min Scan# 871

Delta R.T. 0.12 min

Lab File: BF098594.D

Acq: 16 Sep 2017 3:08

Tgt Ion: 70 Resp: 44241

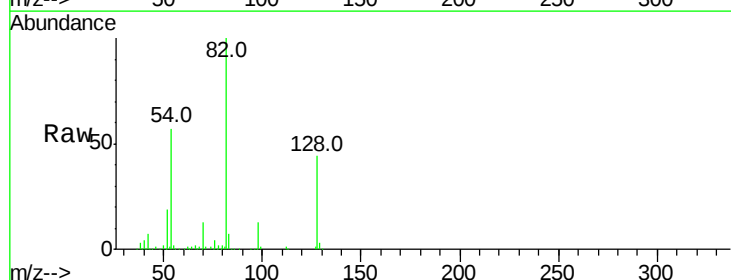
Ion Ratio Lower Upper

70 100

42 52.4 47.2 70.8

101 0.0 7.2 10.8#

130 2.2 15.9 23.9#

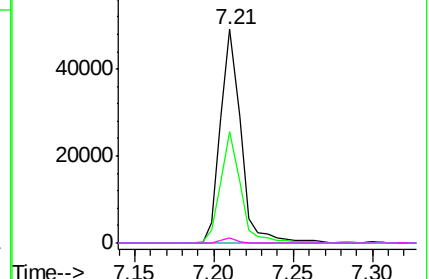
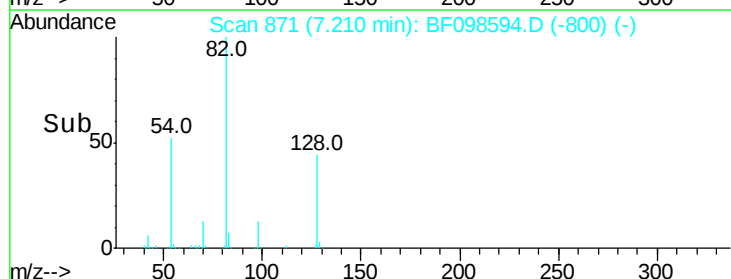


Abundance Ion 70.00 (69.70 to 70.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 101.00 (100.70 to 101.70): BF0

Ion 130.00 (129.70 to 130.70): BF0





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 7.93 min Scan# 993

Delta R.T. -0.02 min

Lab File: BF098594.D

Acq: 16 Sep 2017 3:08

Instrument :

BNA_F

ClientSampleId :

SOIL-STOCKPILE-OUTSIDE

Tot Ion:136 Resp: 541414

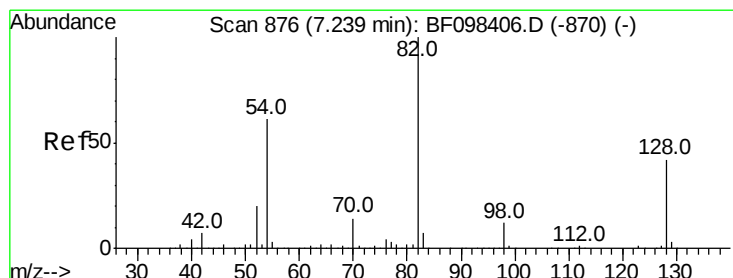
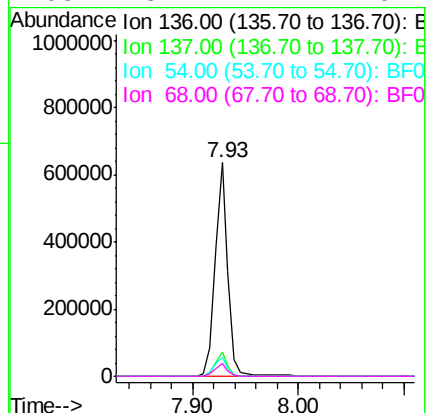
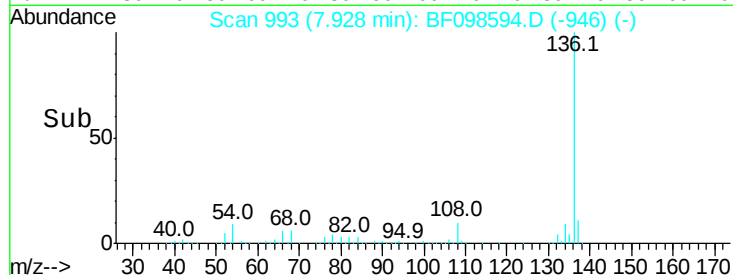
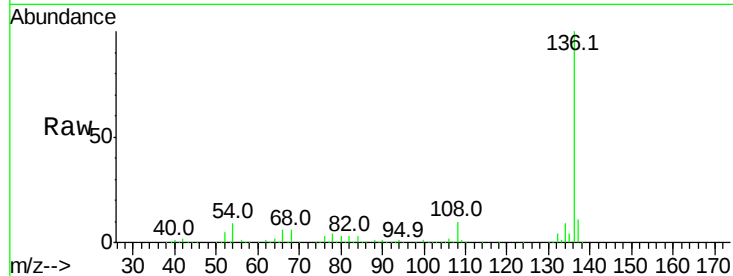
Ion Ratio Lower Upper

136 100

137 11.1 8.5 12.7

54 8.9 4.9 7.3#

68 5.7 4.1 6.1



#23

Nitrobenzene-d5

Concen: 34.144 ng

RT: 7.21 min Scan# 871

Delta R.T. -0.03 min

Lab File: BF098594.D

Acq: 16 Sep 2017 3:08

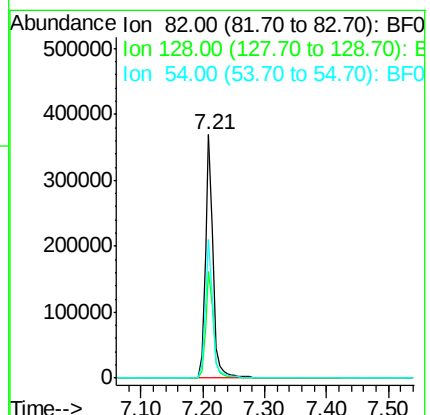
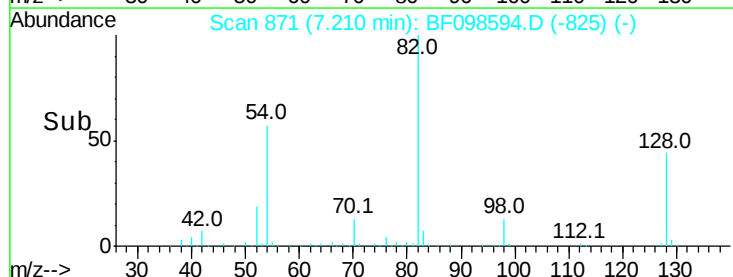
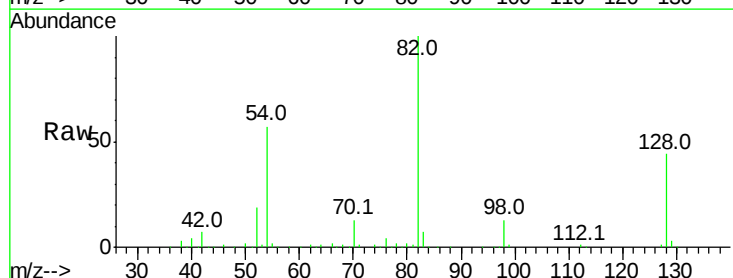
Tgt Ion: 82 Resp: 331590

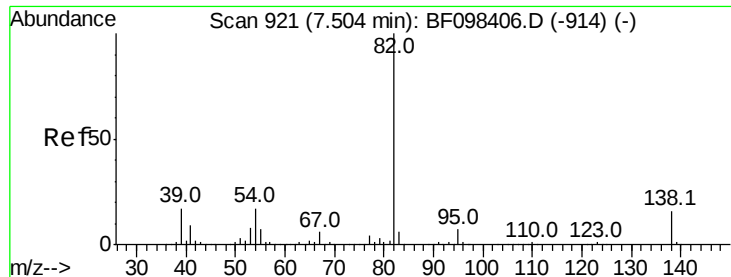
Ion Ratio Lower Upper

82 100

128 43.9 34.0 51.0

54 57.1 42.2 63.2





#25

Isophorone

Concen: 16.858 ng

RT: 7.21 min Scan# 871

Delta R.T. -0.29 min

Lab File: BF098594.D

Acq: 16 Sep 2017 3:08

Instrument :

BNA_F

ClientSampleId :

SOIL-STOCKPILE-OUTSIDE

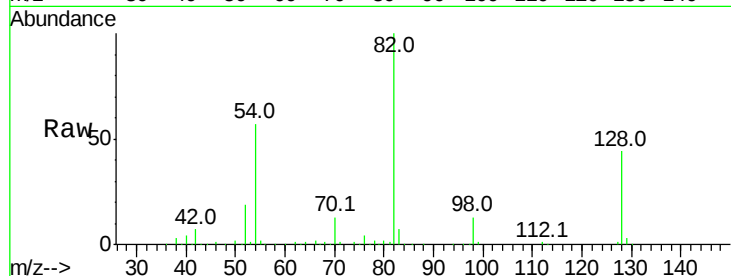
Tot Ion: 82 Resp: 331235

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

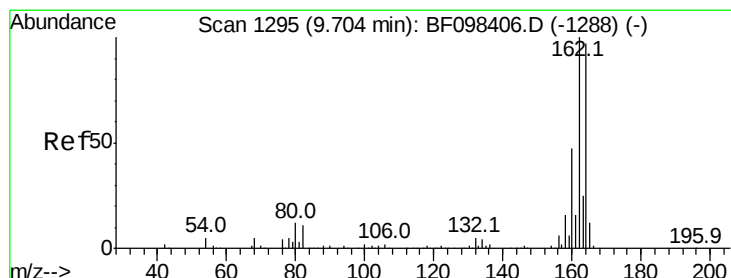
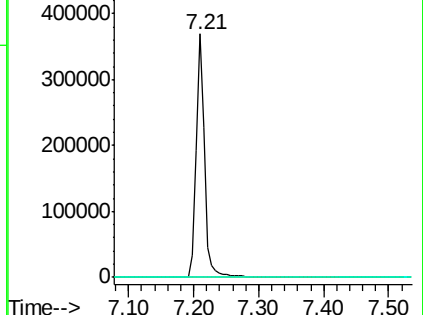
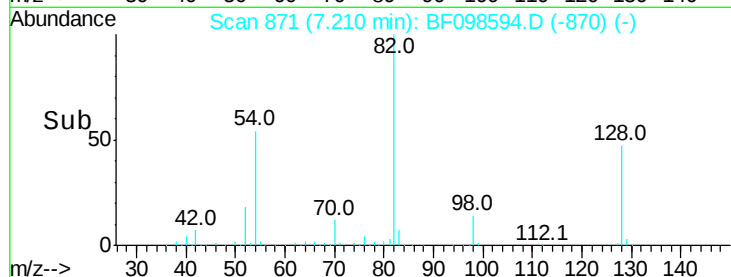
138 0.0 13.1 19.7#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.68 min Scan# 1291

Delta R.T. -0.02 min

Lab File: BF098594.D

Acq: 16 Sep 2017 3:08

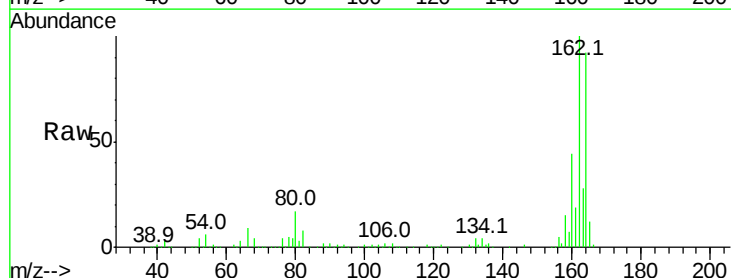
Tgt Ion:164 Resp: 236073

Ion Ratio Lower Upper

164 100

162 108.3 82.6 123.8

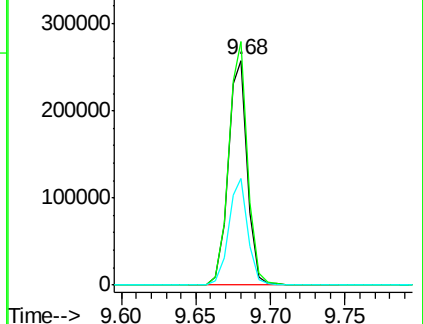
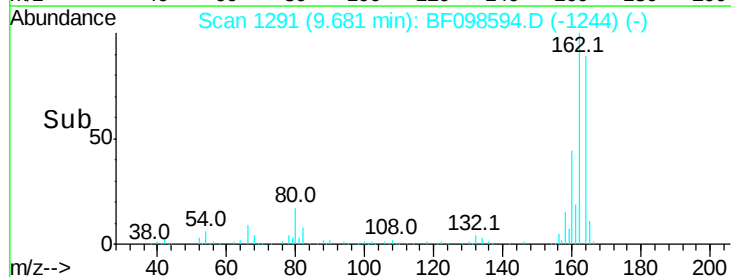
160 47.5 36.2 54.2

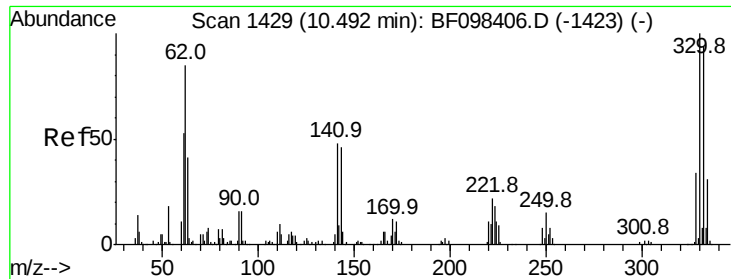


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

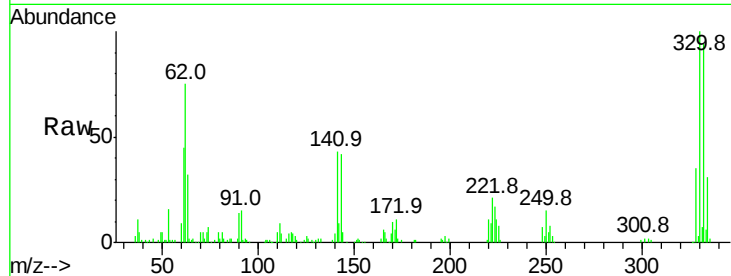




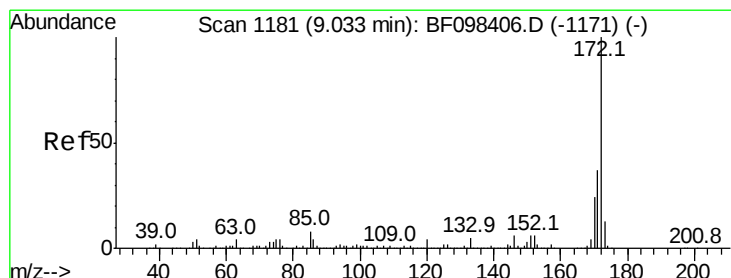
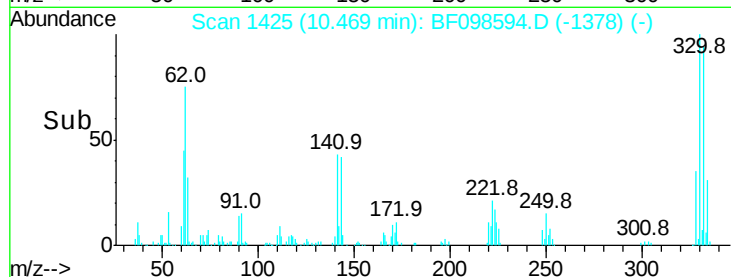
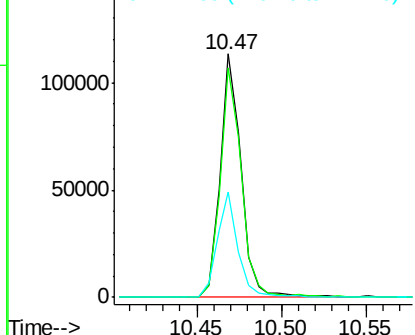
#41
 2,4,6-Tribromophenol
 Concen: 62.390 ng
 RT: 10.47 min Scan# 1425
 Delta R.T. -0.02 min
 Lab File: BF098594.D
 Acq: 16 Sep 2017 3:08

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-STOCKPILE-OUTSIDE

Tot Ion:330 Resp: 98302
 Ion Ratio Lower Upper
 330 100
 332 96.4 76.6 115.0
 141 43.4 31.4 47.2

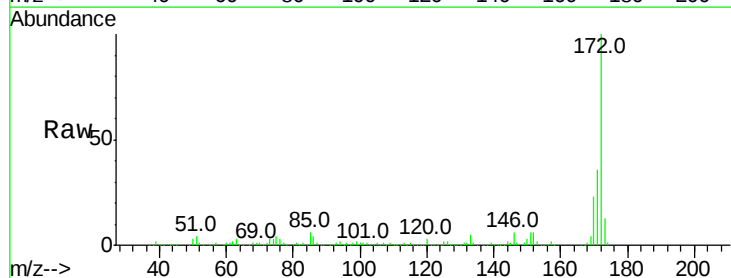


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

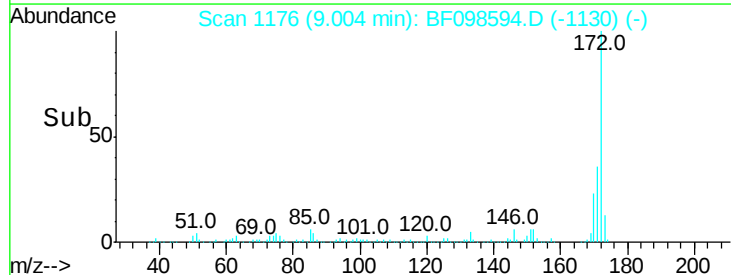
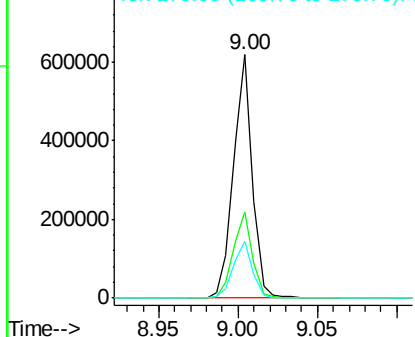


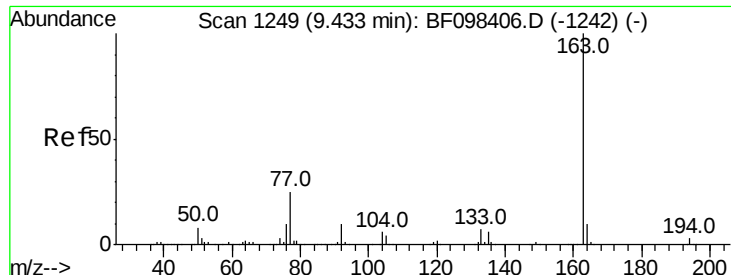
#44
 2-Fluorobiphenyl
 Concen: 36.683 ng
 RT: 9.00 min Scan# 1176
 Delta R.T. -0.03 min
 Lab File: BF098594.D
 Acq: 16 Sep 2017 3:08

Tgt Ion:172 Resp: 510929
 Ion Ratio Lower Upper
 172 100
 171 35.7 29.6 44.4
 170 23.3 19.8 29.8



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

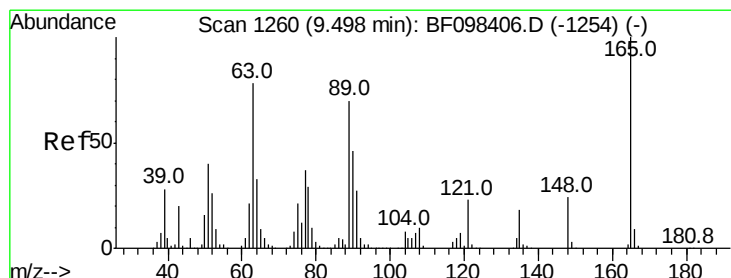
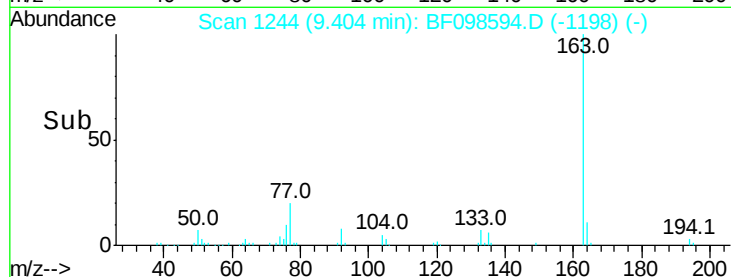
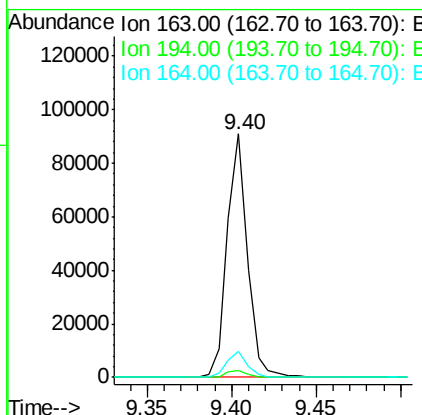
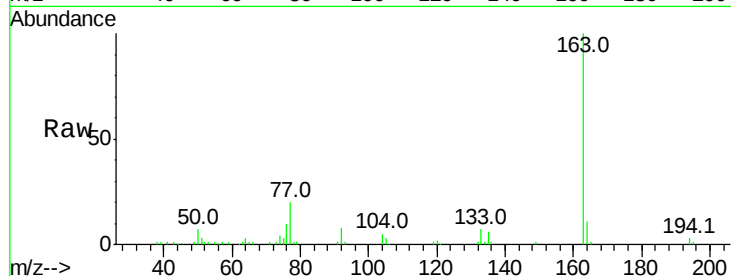




#49
Dimethylphthalate
Concen: 4.166 ng
RT: 9.40 min Scan# 1244
Delta R.T. -0.03 min
Lab File: BF098594.D
Acq: 16 Sep 2017 3:08

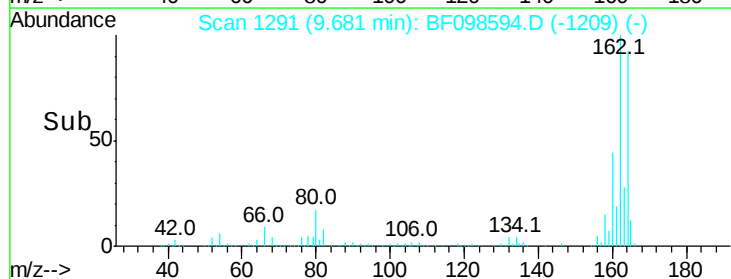
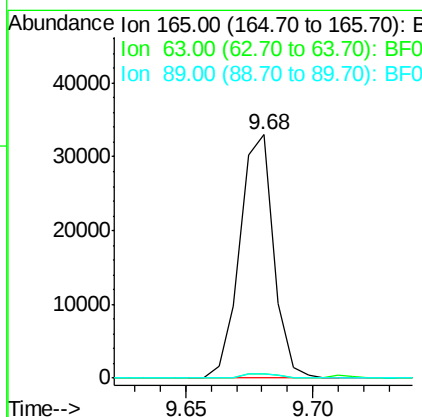
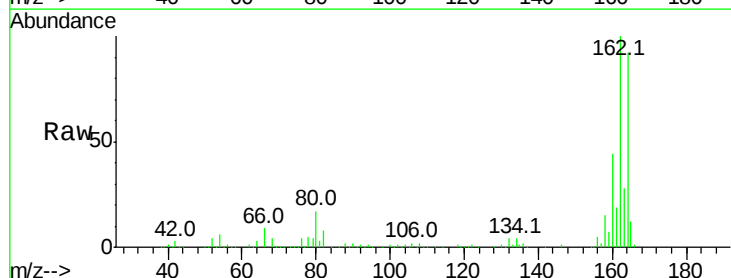
Instrument :
BNA_F
ClientSampleId :
SOIL-STOCKPILE-OUTSIDE

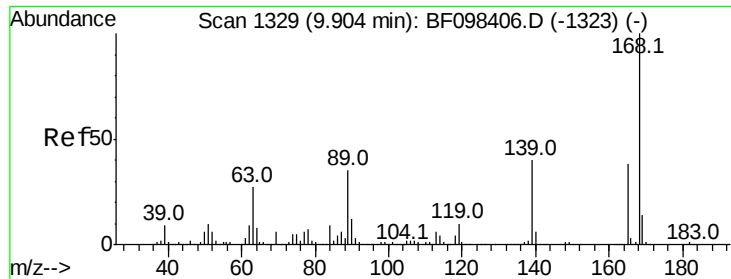
Tot Ion	Ratio	Lower	Upper
163	100		
194	3.0	2.6	4.0
164	10.8	8.4	12.6



#50
2,6-Dinitrotoluene
Concen: 8.146 ng
RT: 9.68 min Scan# 1291
Delta R.T. 0.18 min
Lab File: BF098594.D
Acq: 16 Sep 2017 3:08

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.6	34.3	51.5#
89	1.9	37.1	55.7#

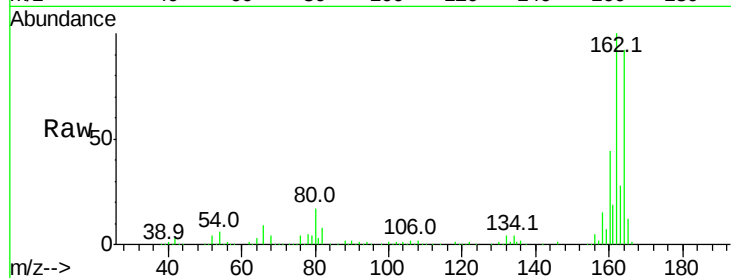




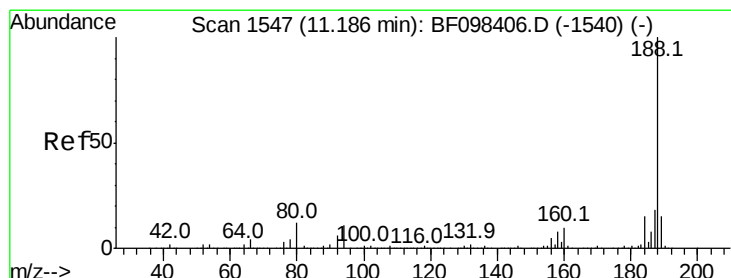
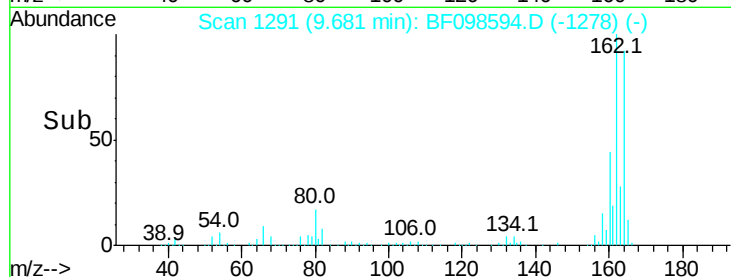
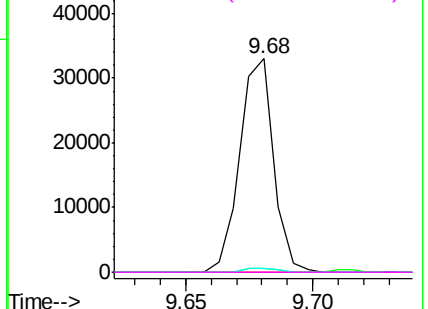
#56
 2,4-Dinitrotoluene
 Concen: 6.701 ng
 RT: 9.68 min Scan# 1291
 Delta R.T. -0.22 min
 Lab File: BF098594.D
 Acq: 16 Sep 2017 3:08

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-STOCKPILE-OUTSIDE

Tot Ion:165 Resp: 30579
 Ion Ratio Lower Upper
 165 100
 63 1.6 25.4 38.0#
 89 1.9 46.4 69.6#
 182 0.0 1.8 2.6#

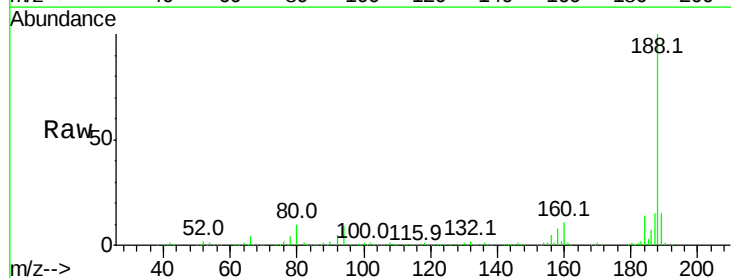


Abundance Ion 165.00 (164.70 to 165.70): E

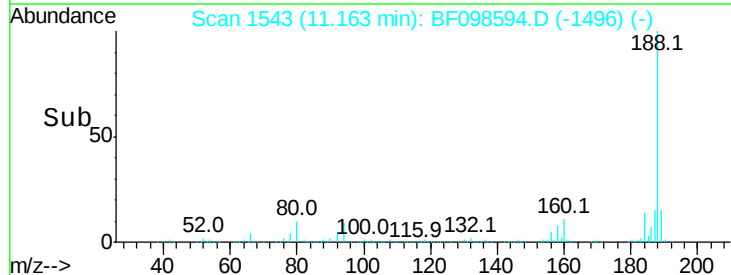
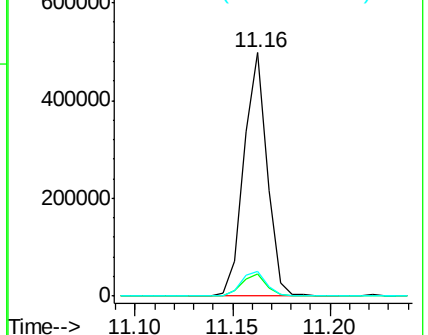


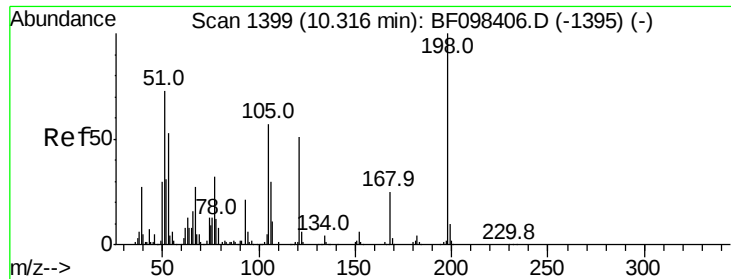
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.16 min Scan# 1543
 Delta R.T. -0.02 min
 Lab File: BF098594.D
 Acq: 16 Sep 2017 3:08

Tgt Ion:188 Resp: 411369
 Ion Ratio Lower Upper
 188 100
 94 9.3 9.4 14.2#
 80 10.0 10.2 15.2#



Abundance Ion 188.00 (187.70 to 188.70): E





#64

4,6-Dinitro-2-methylphenol

Concen: 5.052 ng

RT: 10.47 min Scan# 1425

Delta R.T. 0.15 min

Lab File: BF098594.D

Acq: 16 Sep 2017 3:08

Instrument :

BNA_F

ClientSampleId :

SOIL-STOCKPILE-OUTSIDE

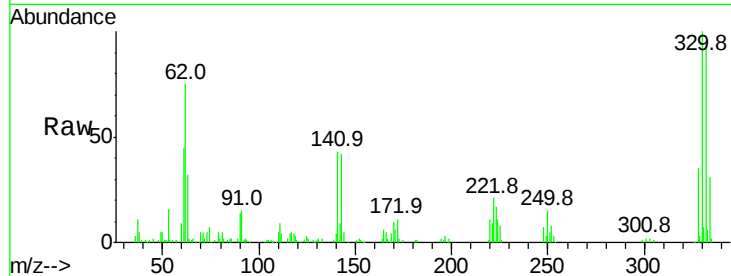
Tot Ion:198 Resp: 246

Ion Ratio Lower Upper

198 100

51 170.8 53.2 93.2#

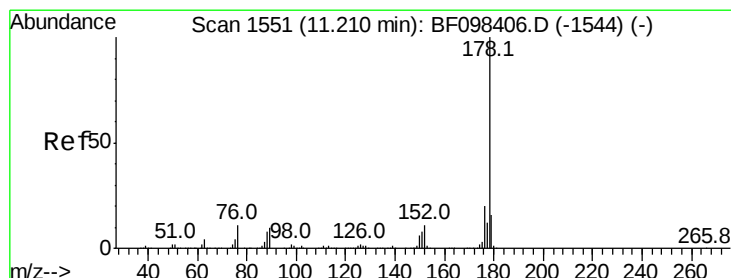
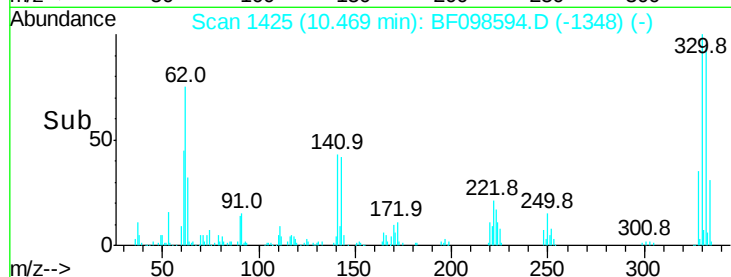
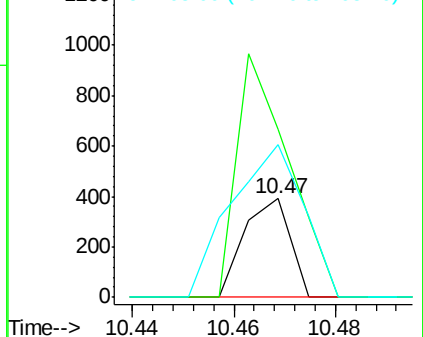
105 154.7 45.8 85.8#



Abundance Ion 198.00 (197.70 to 198.70): E

Ion 51.00 (50.70 to 51.70): BF0

Ion 105.00 (104.70 to 105.70): E



#70

Phenanthrene

Concen: 2.805 ng

RT: 11.19 min Scan# 1547

Delta R.T. -0.02 min

Lab File: BF098594.D

Acq: 16 Sep 2017 3:08

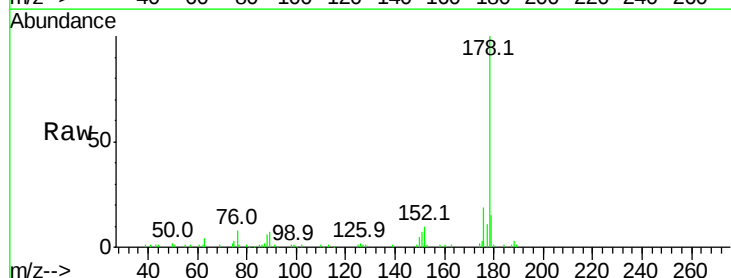
Tgt Ion:178 Resp: 61161

Ion Ratio Lower Upper

178 100

176 18.6 16.2 24.4

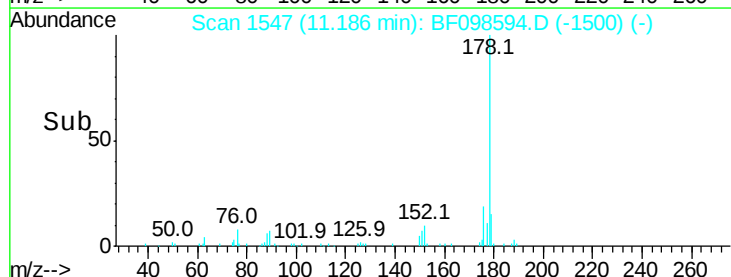
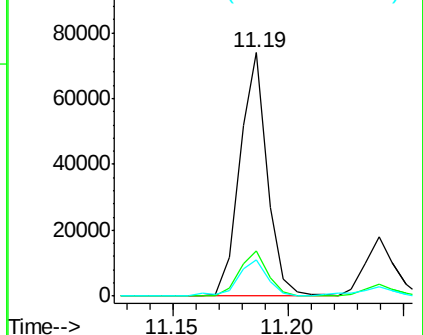
179 15.0 12.6 19.0

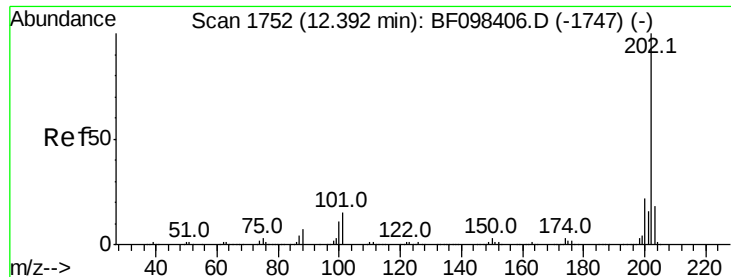


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#74

Fluoranthene

Concen: 5.460 ng

RT: 12.37 min Scan# 1749

Delta R.T. -0.02 min

Lab File: BF098594.D

Acq: 16 Sep 2017 3:08

Instrument :

BNA_F

ClientSampleId :

SOIL-STOCKPILE-OUTSIDE

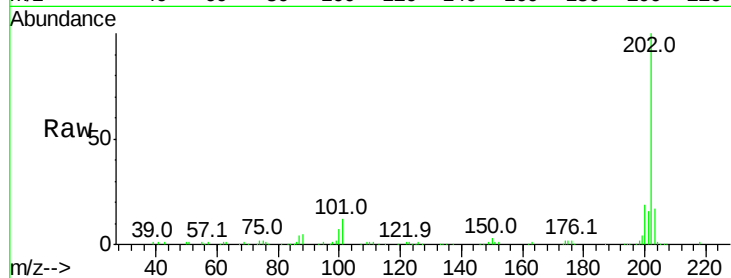
Tot Ion:202 Resp: 119197

Ion Ratio Lower Upper

202 100

101 11.6 0.0 33.2

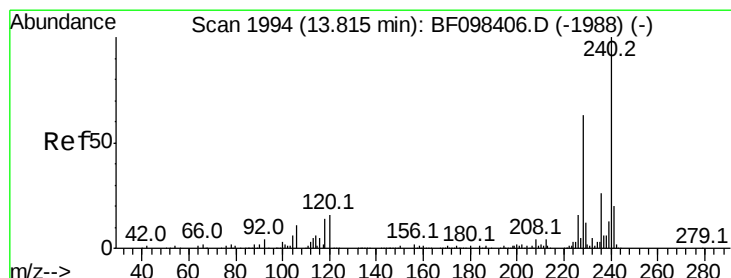
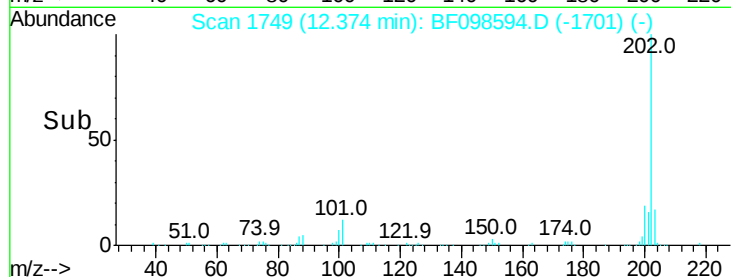
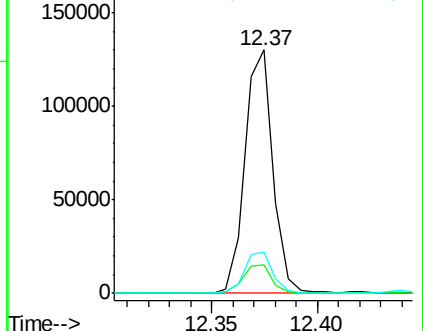
203 17.2 0.0 38.1



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: 20.000 ng

RT: 13.80 min Scan# 1991

Delta R.T. -0.02 min

Lab File: BF098594.D

Acq: 16 Sep 2017 3:08

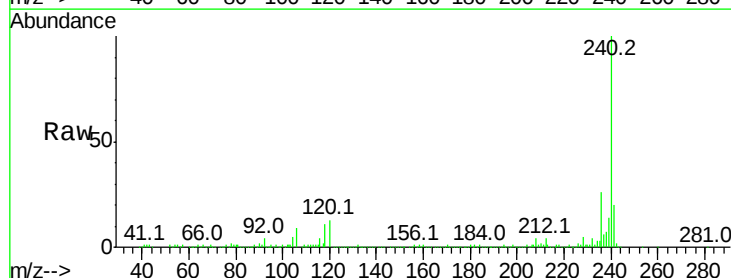
Tgt Ion:240 Resp: 291307

Ion Ratio Lower Upper

240 100

120 13.0 5.8 8.8#

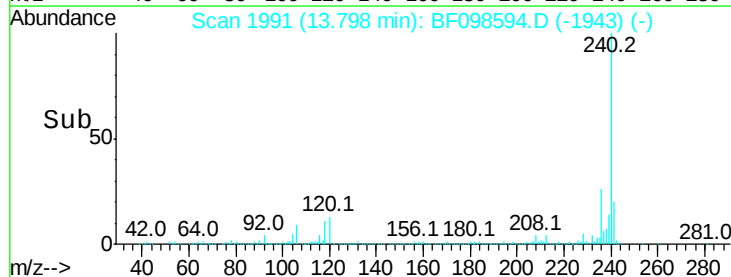
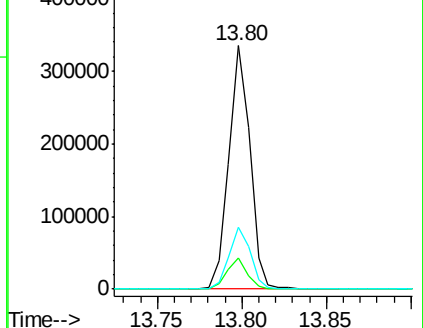
236 25.7 20.5 30.7

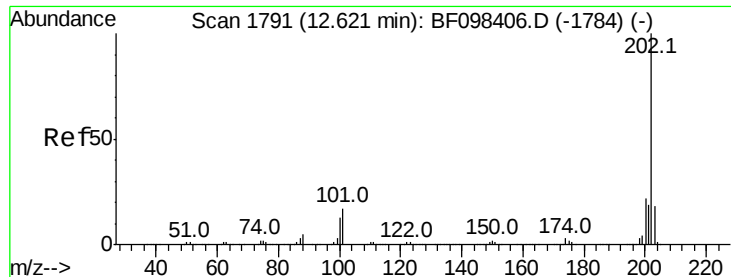


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

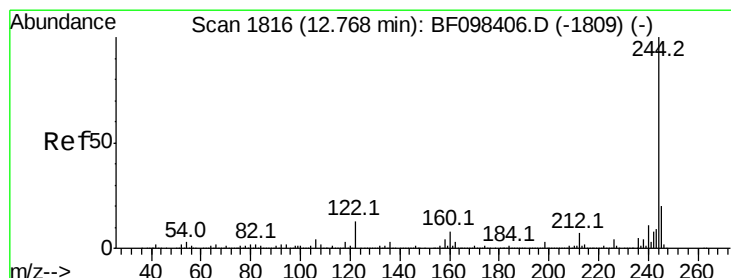
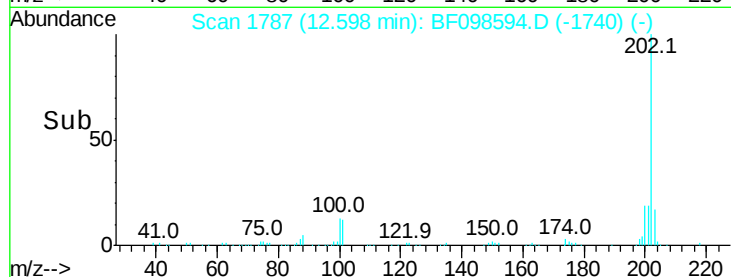
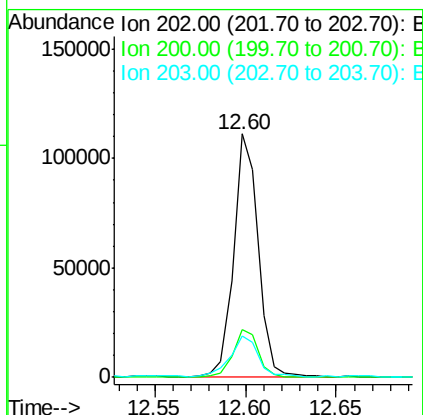
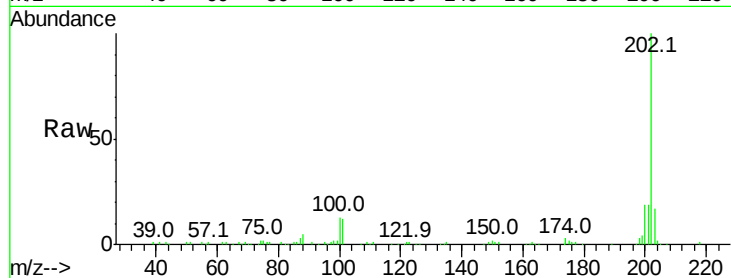




#77
Pvrene
Concen: 4.581 ng
RT: 12.60 min Scan# 1787
Delta R.T. -0.02 min
Lab File: BF098594.D
Acq: 16 Sep 2017 3:08

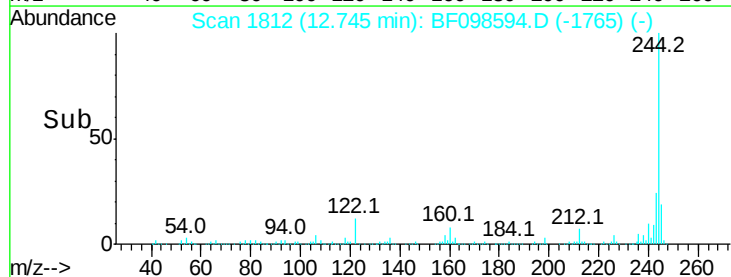
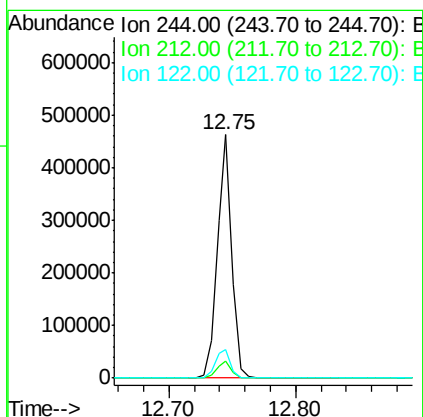
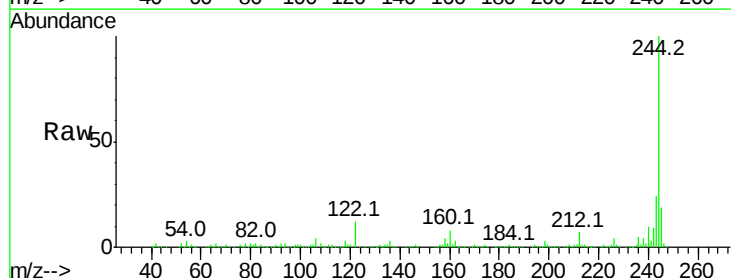
Instrument :
BNA_F
ClientSampleId :
SOIL-STOCKPILE-OUTSIDE

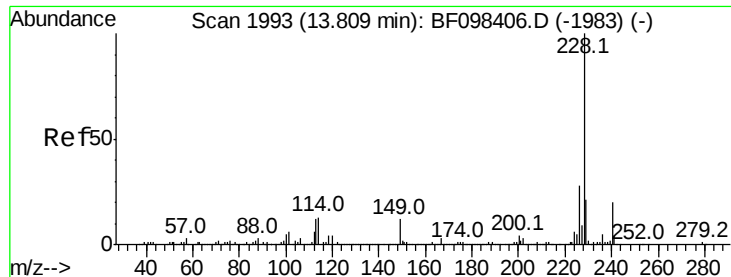
Tot Ion:202 Resp: 105277
Ion Ratio Lower Upper
202 100
200 19.5 17.6 26.4
203 17.0 14.4 21.6



#78
Terphenyl-d14
Concen: 27.327 ng
RT: 12.75 min Scan# 1812
Delta R.T. -0.02 min
Lab File: BF098594.D
Acq: 16 Sep 2017 3:08

Tgt Ion:244 Resp: 368805
Ion Ratio Lower Upper
244 100
212 7.2 6.0 9.0
122 11.9 10.3 15.5





#80

Benzo(a)anthracene

Concen: 2.789 ng

RT: 13.79 min Scan# 1989

Delta R.T. -0.02 min

Lab File: BF098594.D

Acq: 16 Sep 2017 3:08

Instrument :

BNA_F

ClientSampleId :

SOIL-STOCKPILE-OUTSIDE

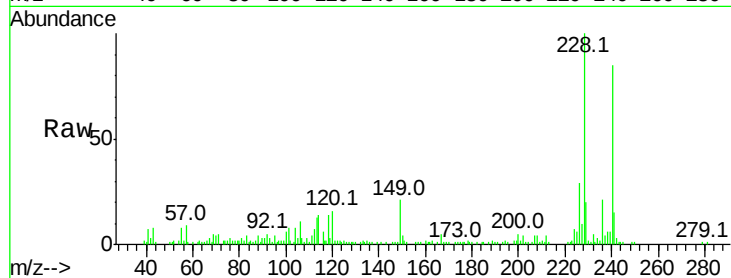
Tot Ion:228 Resp: 47632

Ion Ratio Lower Upper

228 100

226 29.1 22.6 33.8

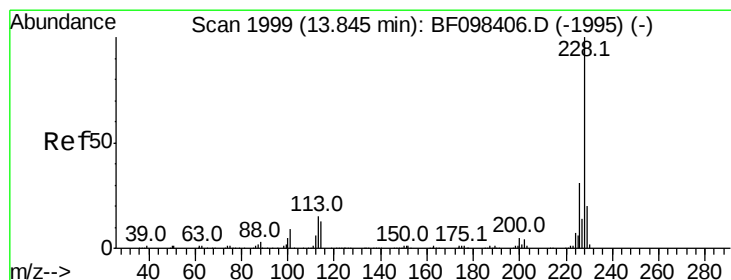
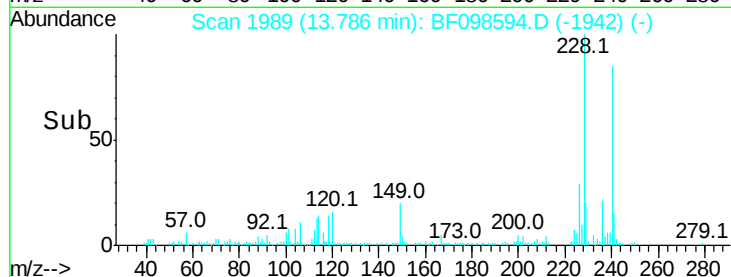
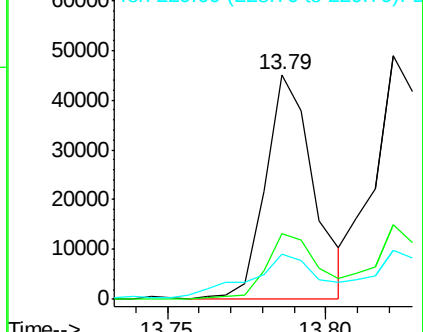
229 20.3 16.3 24.5



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#82

Chrysene

Concen: 3.007 ng

RT: 13.82 min Scan# 1995

Delta R.T. -0.02 min

Lab File: BF098594.D

Acq: 16 Sep 2017 3:08

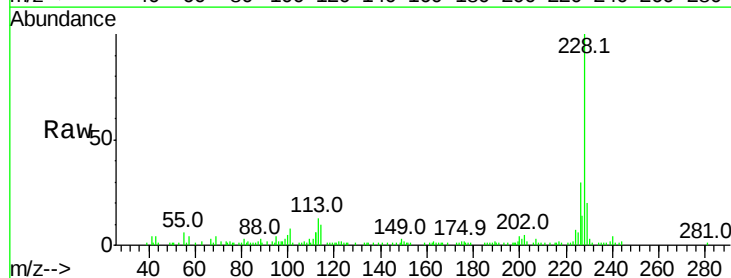
Tgt Ion:228 Resp: 51919

Ion Ratio Lower Upper

228 100

226 30.5 24.9 37.3

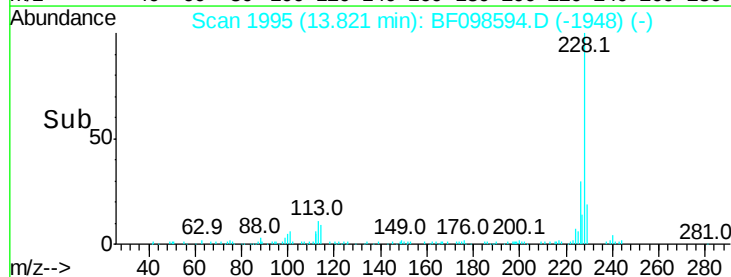
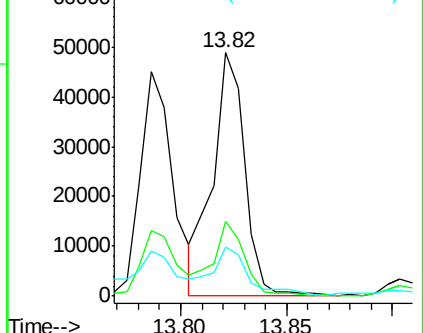
229 20.2 15.8 23.6

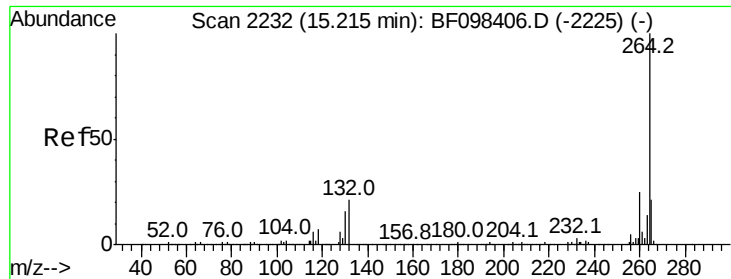


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



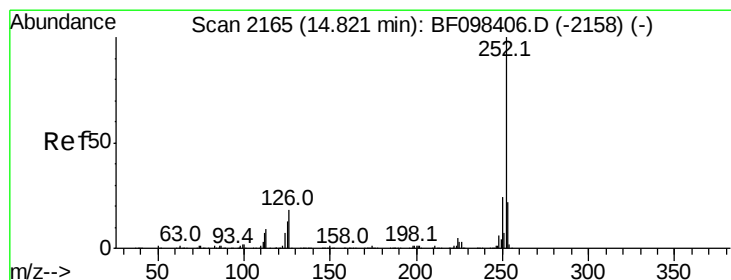
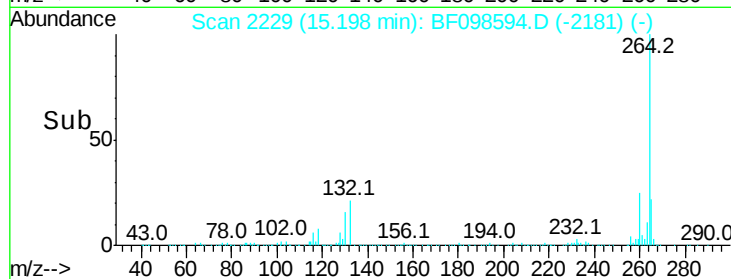
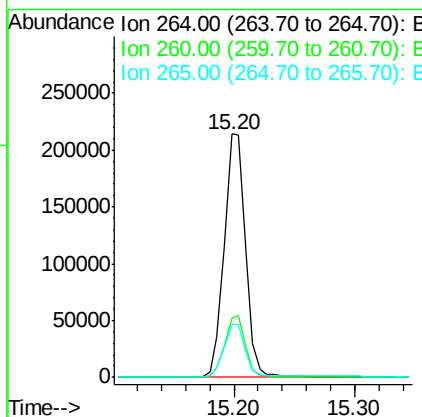
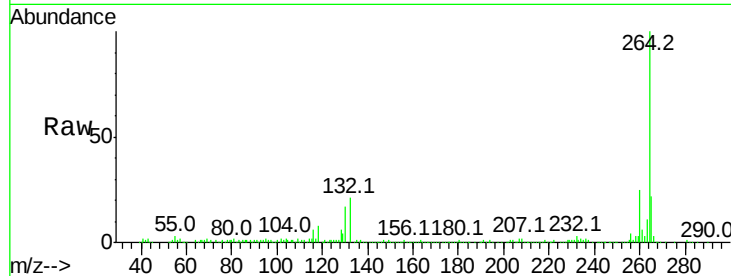


#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.20 min Scan# 2229
Delta R.T. -0.02 min
Lab File: BF098594.D
Acq: 16 Sep 2017 3:08

Instrument :
BNA_F
ClientSampleId :
SOIL-STOCKPILE-OUTSIDE

Tot Ion:264 Resp: 262318

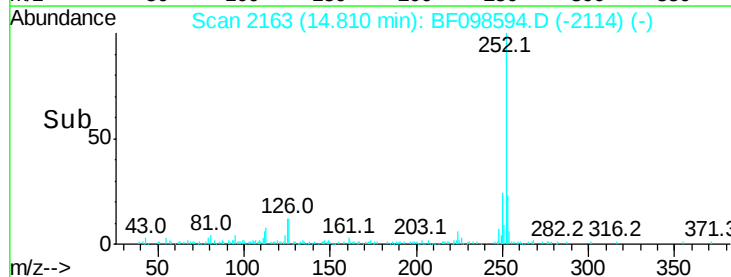
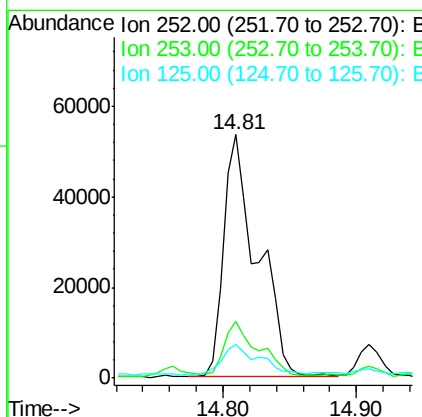
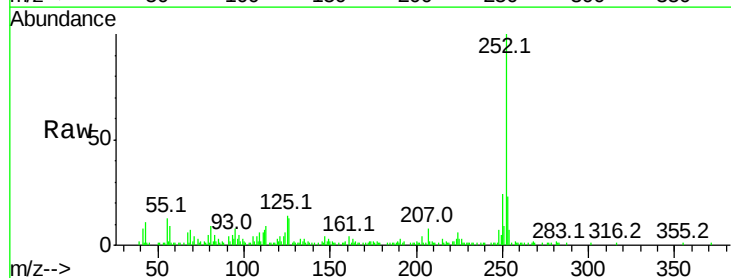
Ion	Ratio	Lower	Upper
264	100		
260	24.5	19.5	29.3
265	21.9	17.2	25.8

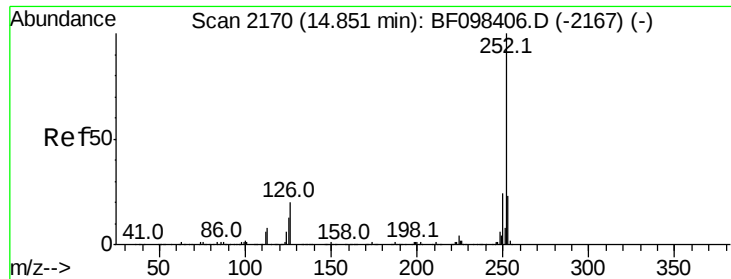


#87
Benzo(b)fluoranthene
Concen: 5.692 ng
RT: 14.81 min Scan# 2163
Delta R.T. -0.01 min
Lab File: BF098594.D
Acq: 16 Sep 2017 3:08

Tgt Ion:252 Resp: 93875

Ion	Ratio	Lower	Upper
252	100		
253	23.3	18.1	27.1
125	13.9	9.8	14.8

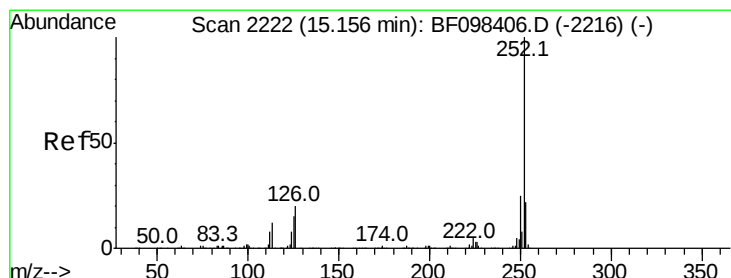
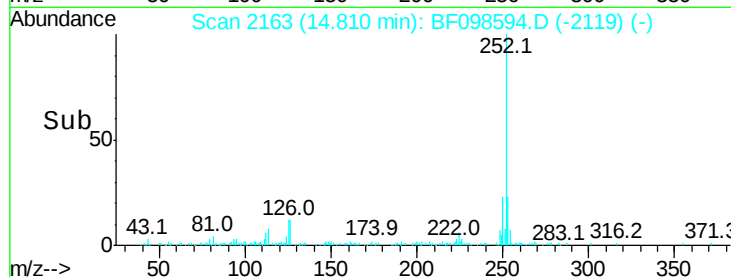
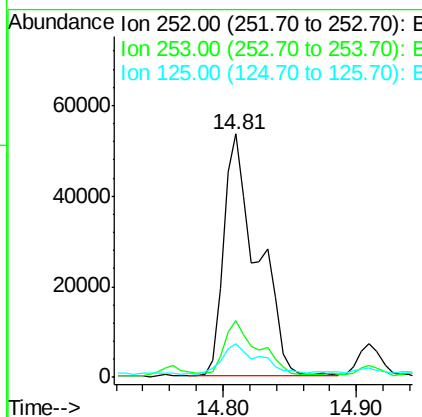
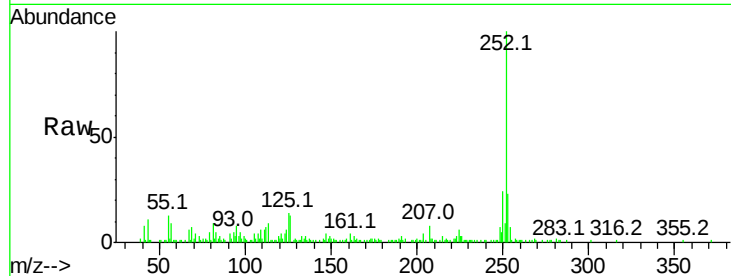




#88
Benzo(k)fluoranthene
Concen: 6.097 ng
RT: 14.81 min Scan# 2163
Delta R.T. -0.04 min
Lab File: BF098594.D
Acq: 16 Sep 2017 3:08

Instrument :
BNA_F
ClientSampleId :
SOIL-STOCKPILE-OUTSIDE

Tot Ion:252 Resp: 93875
Ion Ratio Lower Upper
252 100
253 23.3 18.4 27.6
125 13.9 13.1 19.7



#89
Benzo(a)pyrene
Concen: 2.794 ng
RT: 15.14 min Scan# 2220
Delta R.T. -0.01 min
Lab File: BF098594.D
Acq: 16 Sep 2017 3:08

Tgt Ion:252 Resp: 41061
Ion Ratio Lower Upper
252 100
253 23.4 17.5 26.3
125 13.3 11.0 16.4

