

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF103018\
 Data File : BF110306.D
 Acq On : 30 Oct 2018 16:41
 Operator : JU/SJ
 Sample : J5724-06
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 DARK-SOIL(IN-BUCKET)

Quant Time: Oct 31 04:32:15 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF102318.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 29 17:29:00 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	107808	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	446287	20.00	ng	0.00
39) Acenaphthene-d10	10.01	164	195357	20.00	ng	0.00
64) Phenanthrene-d10	11.51	188	308917	20.00	ng	0.00
76) Chrysene-d12	14.16	240	216402	20.00	ng	0.00
87) Perylene-d12	15.69	264	179177	20.00	ng	0.00

System Monitoring Compounds						
5) 2-Fluorophenol	5.59	112	411958	62.23	ng	0.00
7) Phenol-d6	6.59	99	524858	61.98	ng	0.00
23) Nitrobenzene-d5	7.53	82	326360	43.37	ng	0.00
42) 2,4,6-Tribromophenol	10.80	330	102397	52.91	ng	0.00
45) 2-Fluorobiphenyl	9.32	172	503320	40.46	ng	0.00
79) Terphenyl-d14	13.09	244	338938	32.57	ng	0.00

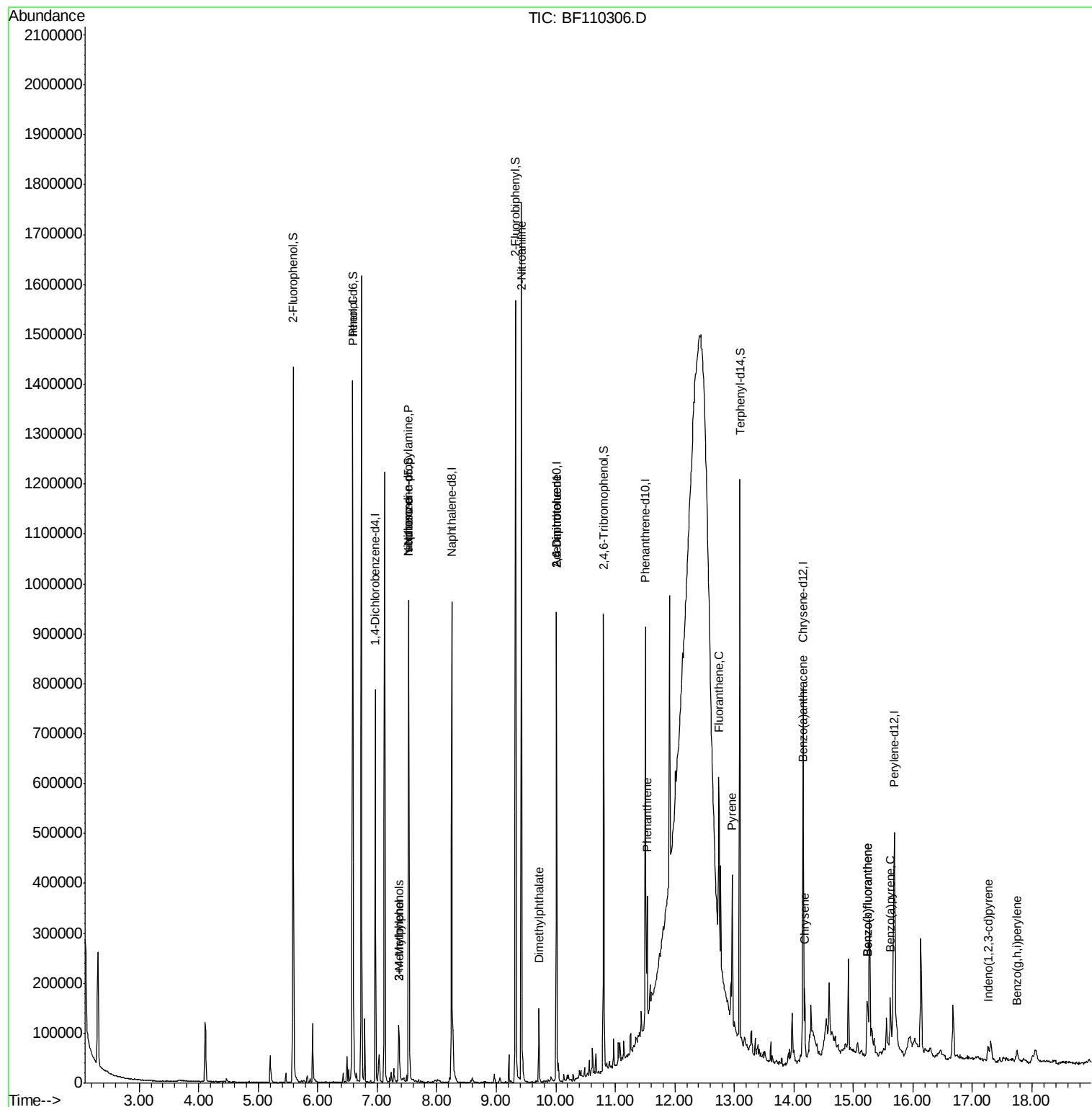
Target Compounds				Qvalue		
9) Benzaldehyde	6.52	77	1289	Below Cal	#	1
10) Phenol	6.60	94	47367	5.233	ng	# 70
17) 2-Methylphenol	7.36	107	40537	6.664	ng	# 58
19) n-Nitroso-di-n-propylamine	7.53	70	43631	8.032	ng	# 79
20) 3+4-Methylphenols	7.36	107	40537	5.156	ng	# 78
25) Isophorone	7.53	82	326357	25.445	ng	# 67
48) 2-Nitroaniline	9.42	65	27226	6.933	ng	# 16
50) Dimethylphthalate	9.72	163	56150	3.894	ng	# 98
51) 2,6-Dinitrotoluene	10.01	165	24616	7.925	ng	# 22
57) 2,4-Dinitrotoluene	10.01	165	24616	6.239	ng	# 18
71) Phenanthrene	11.53	178	88763	5.491	ng	# 97
75) Fluoranthene	12.74	202	130072	7.929	ng	# 98
77) Benzidine	13.09	184	4797	Below Cal		# 94
78) Pyrene	12.96	202	113646	7.325	ng	# 98
81) Benzo(a)anthracene	14.14	228	54942	4.281	ng	# 99
83) Chrysene	14.18	228	50010	4.103	ng	# 97
86) Indeno(1,2,3-cd)pyrene	17.26	276	21114	2.088	ng	# 99
88) Benzo(b)fluoranthene	15.23	252	77772	7.517	ng	# 95
89) Benzo(k)fluoranthene	15.23	252	77772	7.646	ng	# 94
90) Benzo(a)pyrene	15.62	252	39967	4.198	ng	# 96
92) Benzo(g,h,i)perylene	17.74	276	18824	2.325	ng	# 100

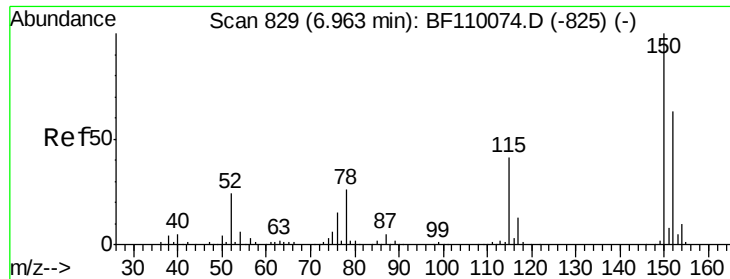
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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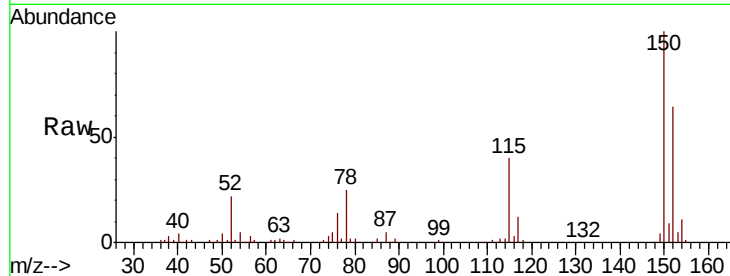




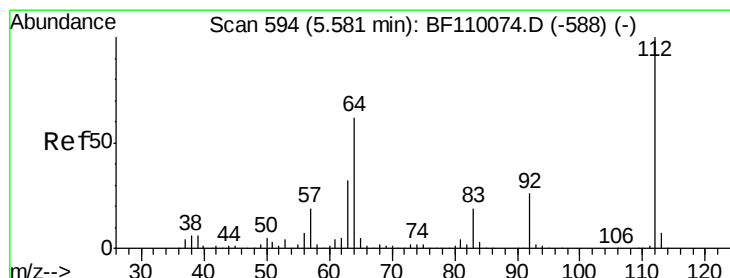
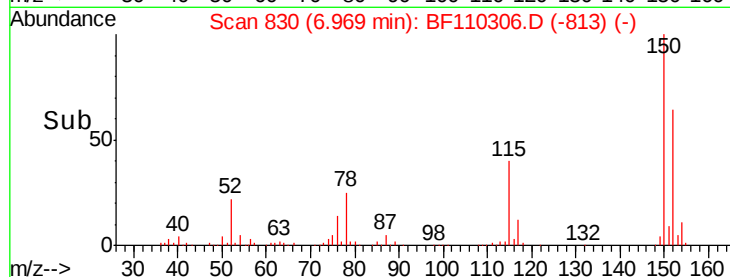
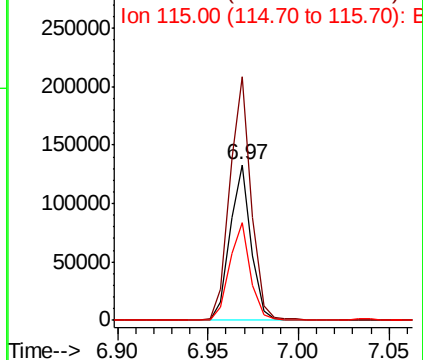
#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.97 min Scan# 830
 Delta R.T. -0.00 min
 Lab File: BF110306.D
 Acq: 30 Oct 2018 16:41

Instrument :
 BNA_F
 ClientSampleId :
 DARK-SOIL(IN-BUCKET)

Tgt Ion:152 Resp: 107808
 Ion Ratio Lower Upper
 152 100
 150 156.7 122.7 184.1
 115 62.7 49.1 73.7

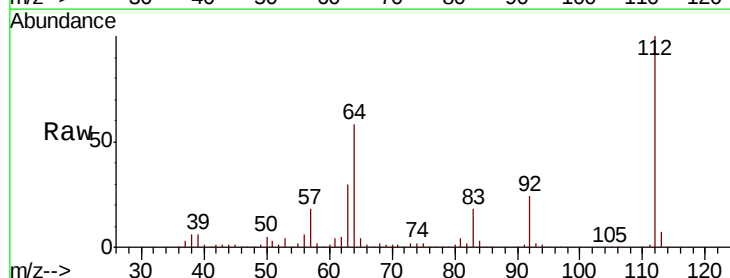


Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E

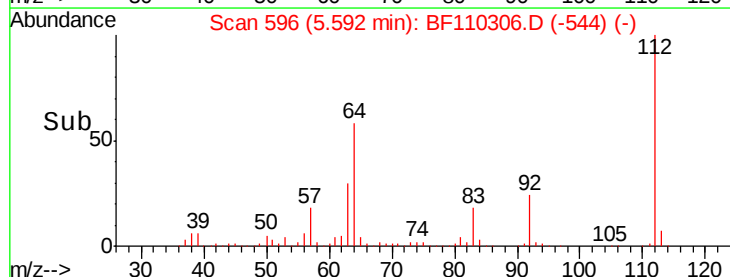
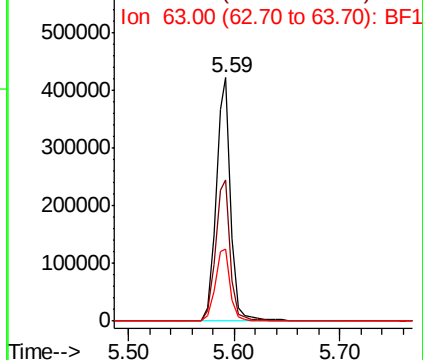


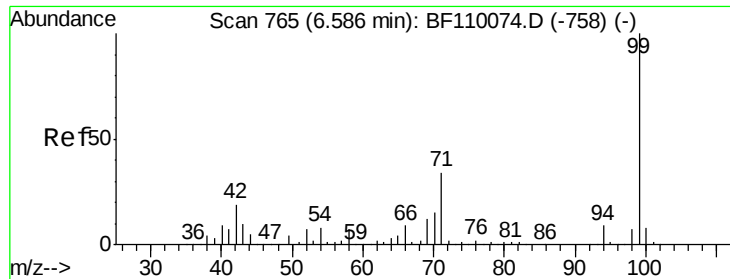
#5
 2-Fluorophenol
 Concen: 62.227 ng
 RT: 5.59 min Scan# 596
 Delta R.T. 0.01 min
 Lab File: BF110306.D
 Acq: 30 Oct 2018 16:41

Tgt Ion:112 Resp: 411958
 Ion Ratio Lower Upper
 112 100
 64 57.8 44.1 66.1
 63 29.8 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: 61.983 ng

RT: 6.59 min Scan# 765

Delta R.T. -0.01 min

Lab File: BF110306.D

Acq: 30 Oct 2018 16:41

Instrument :

BNA_F

ClientSampleId :

DARK-SOIL(IN-BUCKET)

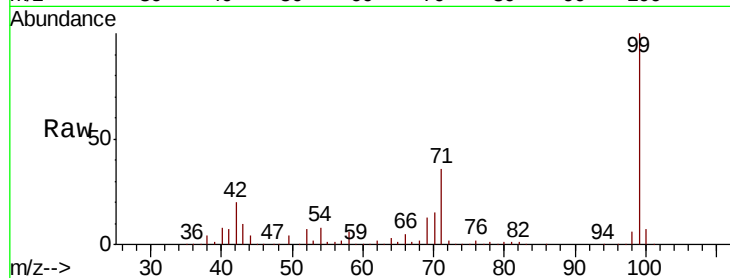
Tgt Ion: 99 Resp: 524858

Ion Ratio Lower Upper

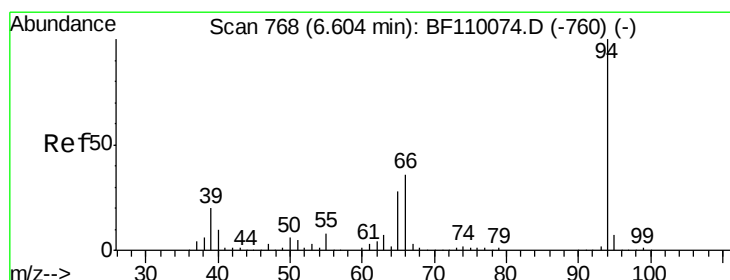
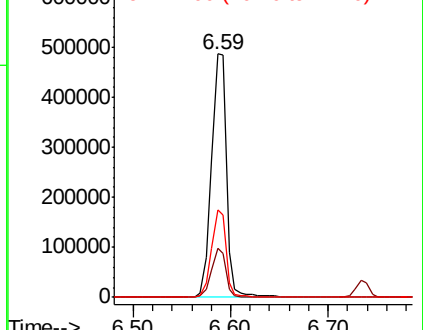
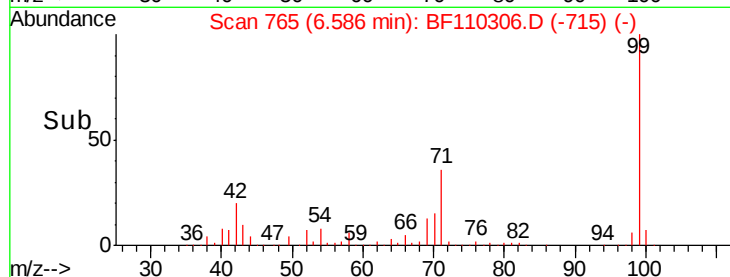
99 100

42 20.0 15.8 23.6

71 35.9 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



#10

Phenol

Concen: 5.233 ng

RT: 6.60 min Scan# 767

Delta R.T. -0.01 min

Lab File: BF110306.D

Acq: 30 Oct 2018 16:41

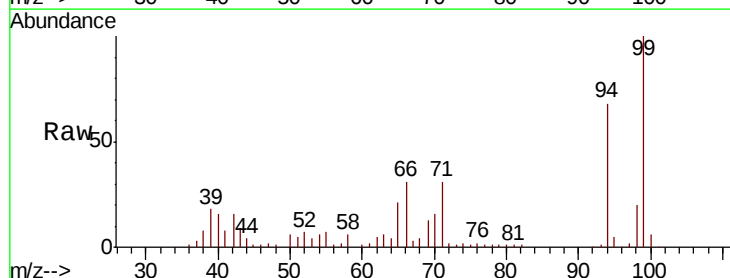
Tgt Ion: 94 Resp: 47367

Ion Ratio Lower Upper

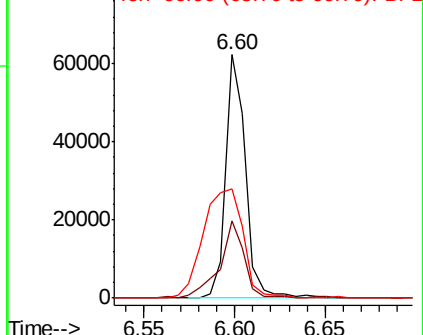
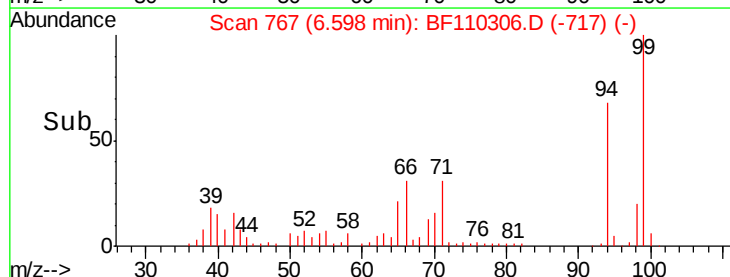
94 100

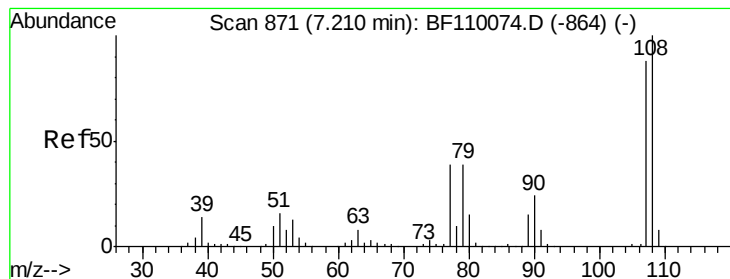
65 31.5 25.3 65.3

66 44.8 54.5 94.5#



Abundance Ion 94.00 (93.70 to 94.70): BF1
Ion 65.00 (64.70 to 65.70): BF1
Ion 66.00 (65.70 to 66.70): BF1





#17

2-Methylphenol

Concen: 6.664 ng

RT: 7.36 min Scan# 897

Delta R.T. 0.15 min

Lab File: BF110306.D

Acq: 30 Oct 2018 16:41

Instrument :

BNA_F

ClientSampleId :

DARK-SOIL(IN-BUCKET)

Tgt Ion:107 Resp: 40537

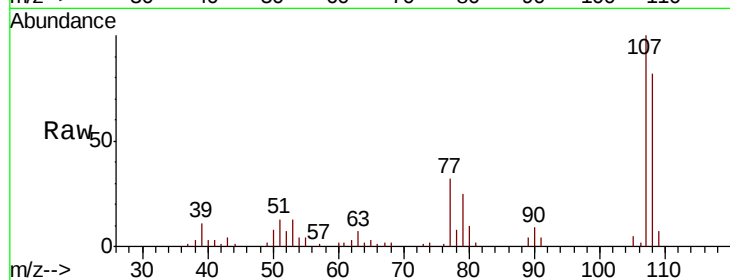
Ion Ratio Lower Upper

107 100

108 81.8 92.6 138.8#

77 32.0 59.4 89.2#

79 24.9 54.0 81.0#



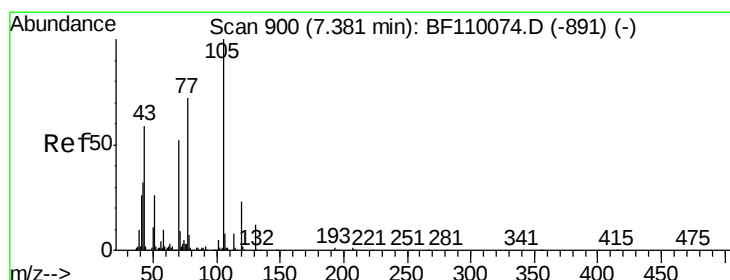
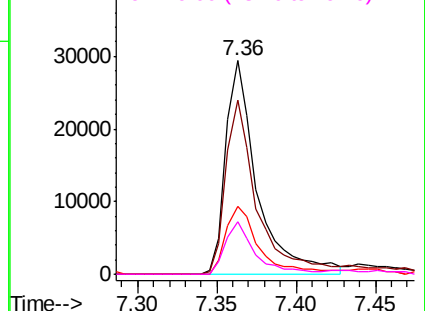
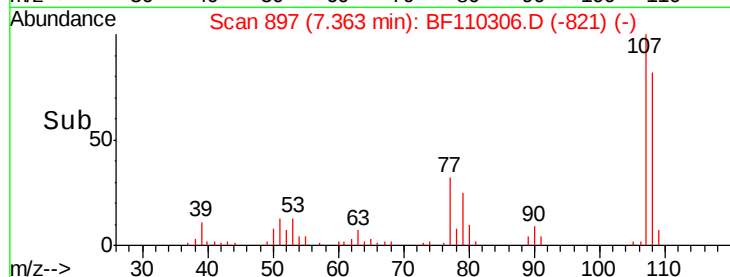
Abundance

Ion 107.00 (106.70 to 107.70): E

Ion 108.00 (107.70 to 108.70): E

Ion 77.00 (76.70 to 77.70): BF1

Ion 79.00 (78.70 to 79.70): BF1



#19

n-Nitroso-di-n-propylamine

Concen: 8.032 ng

RT: 7.53 min Scan# 925

Delta R.T. 0.15 min

Lab File: BF110306.D

Acq: 30 Oct 2018 16:41

Tgt Ion: 70 Resp: 43631

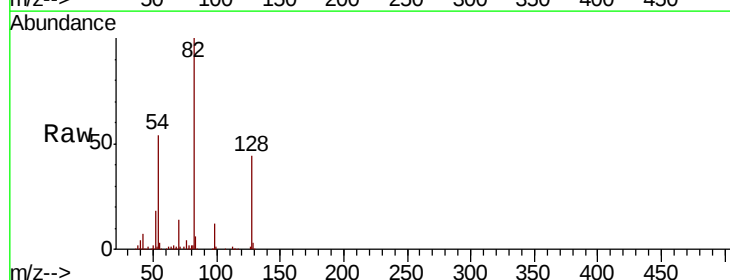
Ion Ratio Lower Upper

70 100

42 48.8 47.4 71.2

101 0.0 7.3 10.9#

130 2.5 16.2 24.2#



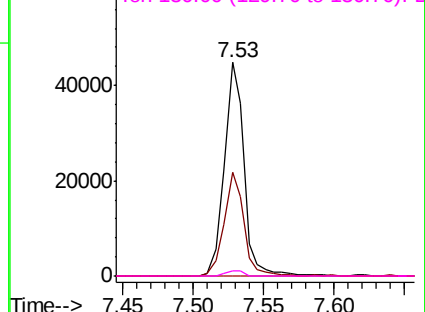
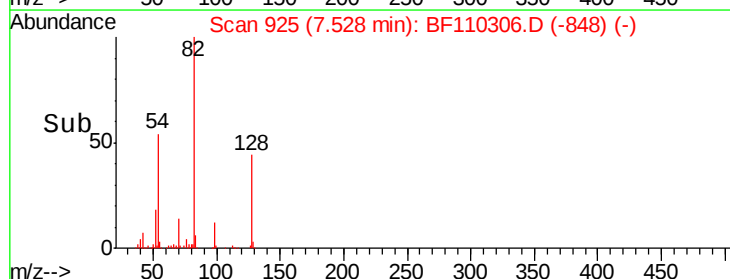
Abundance

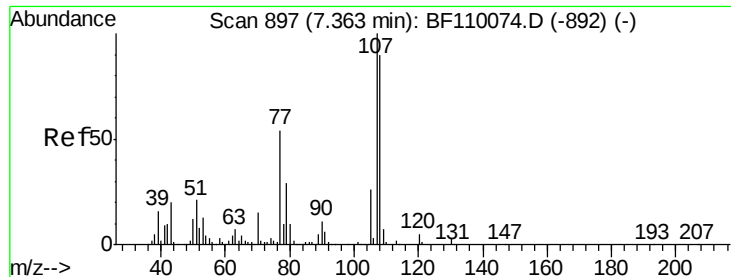
Ion 70.00 (69.70 to 70.70): BF1

Ion 42.00 (41.70 to 42.70): BF1

Ion 101.00 (100.70 to 101.70): E

Ion 130.00 (129.70 to 130.70): E

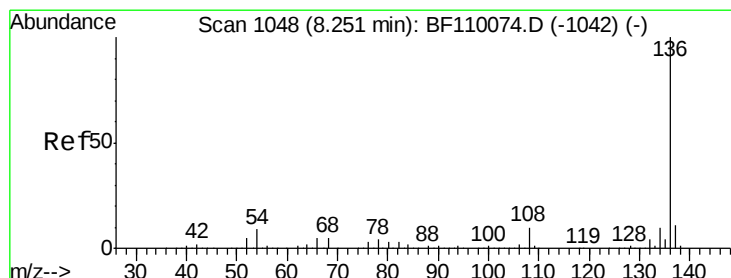
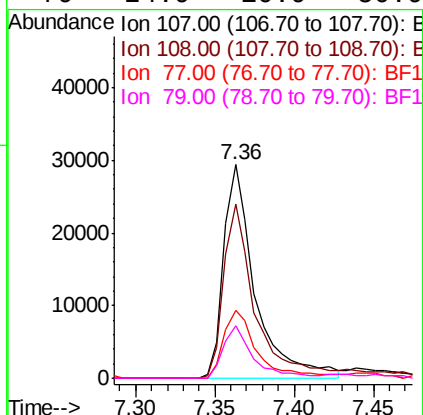
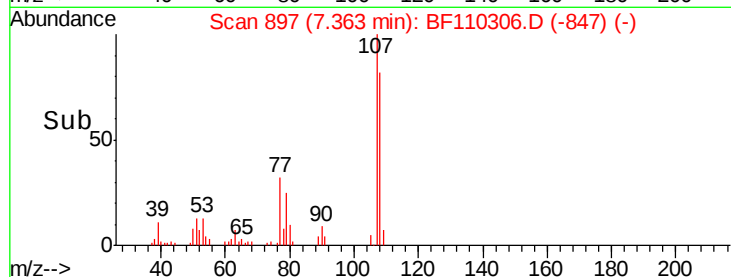
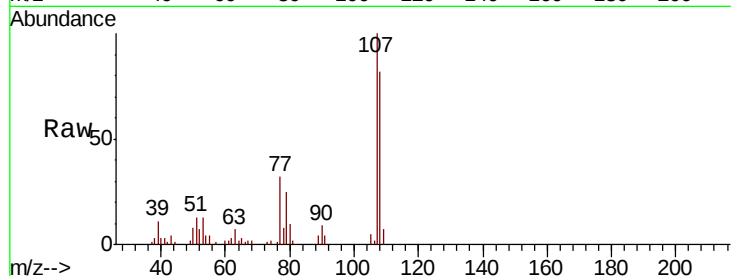




#20
3+4-Methylphenols
Concen: 5.156 ng
RT: 7.36 min Scan# 897
Delta R.T. -0.01 min
Lab File: BF110306.D
Acq: 30 Oct 2018 16:41

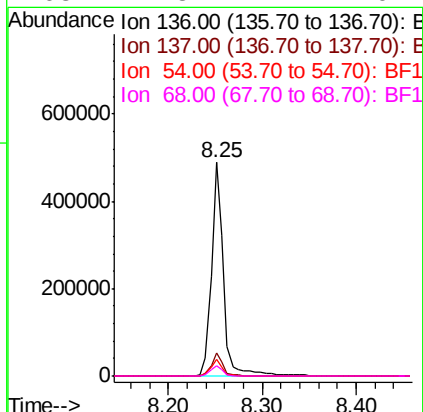
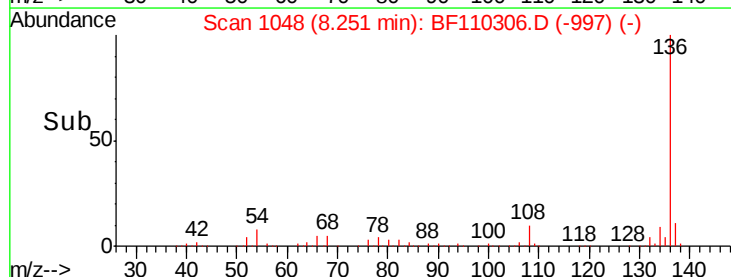
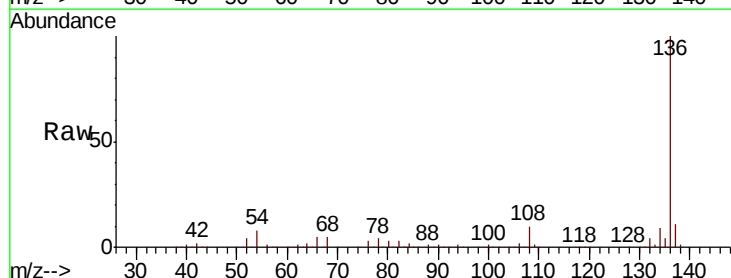
Instrument :
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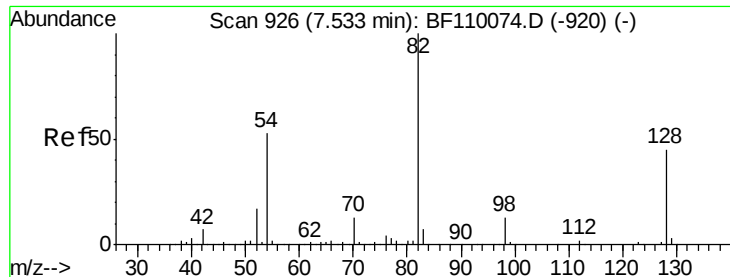
Tgt Ion:	107	Resp:	40537
Ion	Ratio	Lower	Upper
107	100		
108	81.8	71.4	111.4
77	32.0	47.3	87.3#
79	24.9	10.9	50.9



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.25 min Scan# 1048
Delta R.T. 0.00 min
Lab File: BF110306.D
Acq: 30 Oct 2018 16:41

Tgt Ion:	136	Resp:	446287
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.8	13.2
54	7.7	5.4	8.2
68	4.8	4.2	6.2

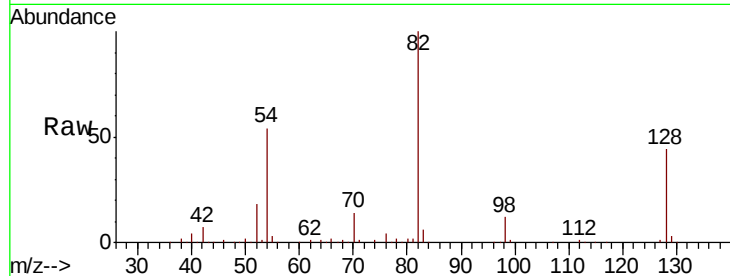




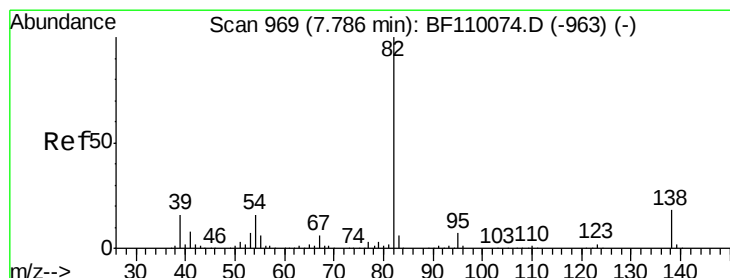
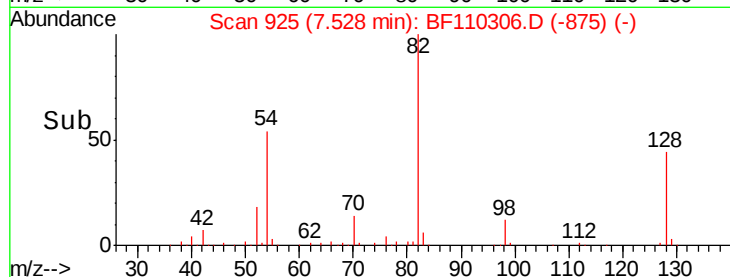
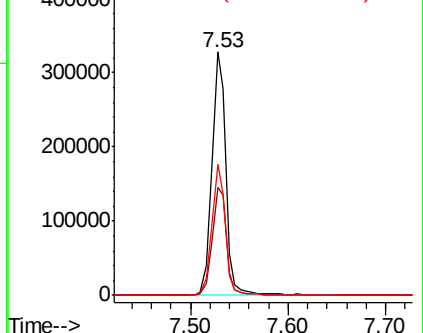
#23
Nitrobenzene-d5
Concen: 43.374 ng
RT: 7.53 min Scan# 925
Delta R.T. -0.01 min
Lab File: BF110306.D
Acq: 30 Oct 2018 16:41

Instrument :
BNA_F
ClientSampleId :
DARK-SOIL(IN-BUCKET)

Tgt Ion	Ratio	Lower	Upper
82	100		
128	44.5	34.2	51.2
54	53.7	38.6	58.0

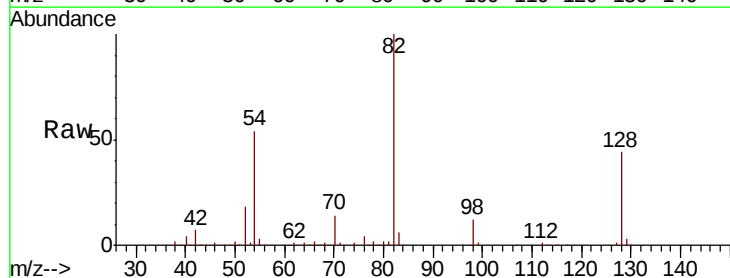


Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 128.00 (127.70 to 128.70): BF1
Ion 54.00 (53.70 to 54.70): BF1

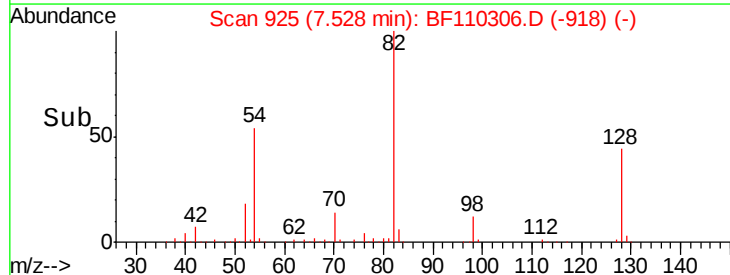
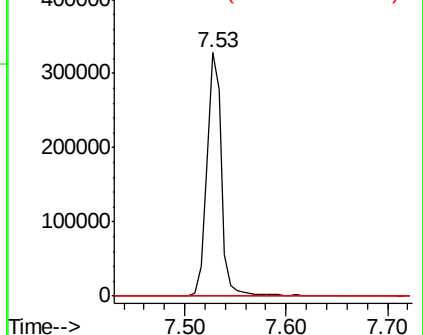


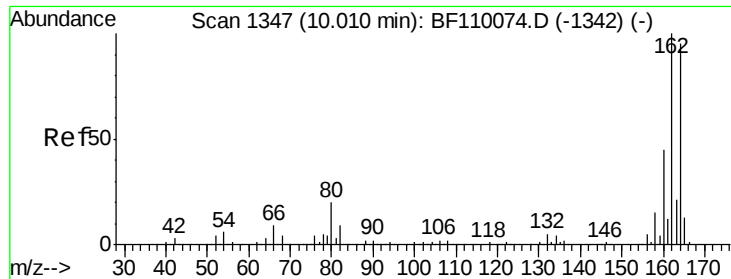
#25
Isophorone
Concen: 25.445 ng
RT: 7.53 min Scan# 925
Delta R.T. -0.26 min
Lab File: BF110306.D
Acq: 30 Oct 2018 16:41

Tgt Ion	Ratio	Lower	Upper
82	100		
95	0.0	5.7	8.5#
138	0.0	13.2	19.8#



Abundance Ion 82.00 (81.70 to 82.70): BF1
Ion 95.00 (94.70 to 95.70): BF1
Ion 138.00 (137.70 to 138.70): BF1





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1347

Delta R.T. -0.01 min

Lab File: BF110306.D

Acq: 30 Oct 2018 16:41

Instrument :

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ClientSampleId :

DARK-SOIL(IN-BUCKET)

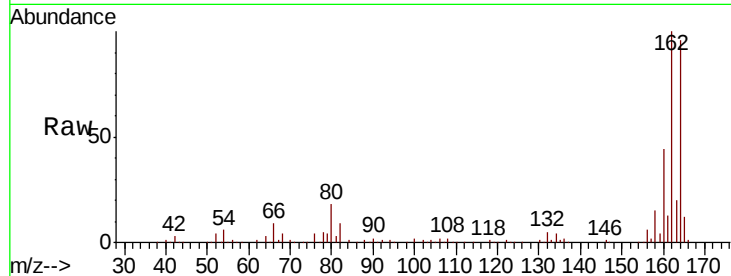
Tgt Ion:164 Resp: 195357

Ion Ratio Lower Upper

164 100

162 103.9 83.0 124.6

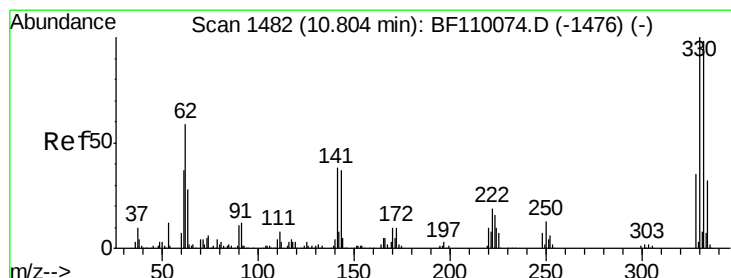
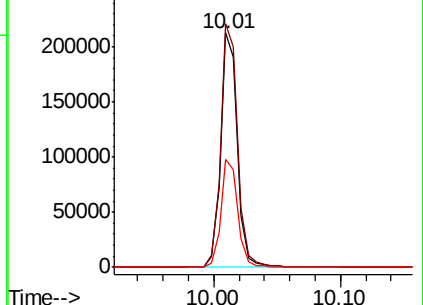
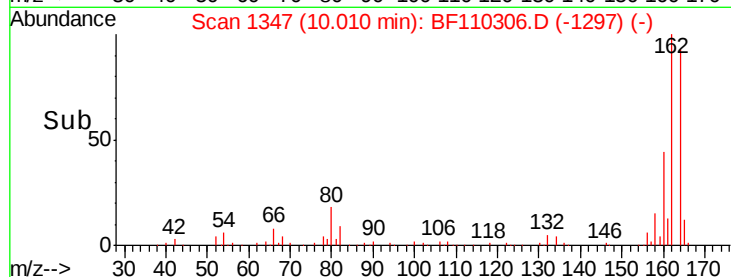
160 46.2 37.0 55.6



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



#42

2,4,6-Tribromophenol

Concen: 52.914 ng

RT: 10.80 min Scan# 1482

Delta R.T. -0.01 min

Lab File: BF110306.D

Acq: 30 Oct 2018 16:41

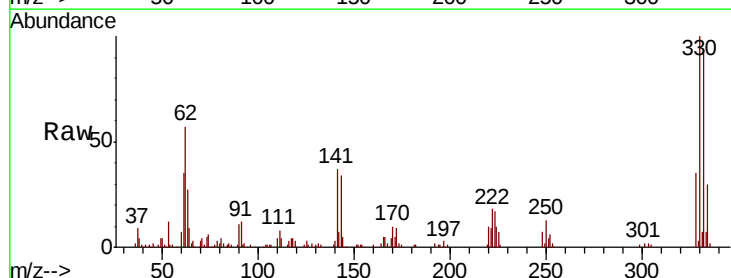
Tgt Ion:330 Resp: 102397

Ion Ratio Lower Upper

330 100

332 95.6 77.1 115.7

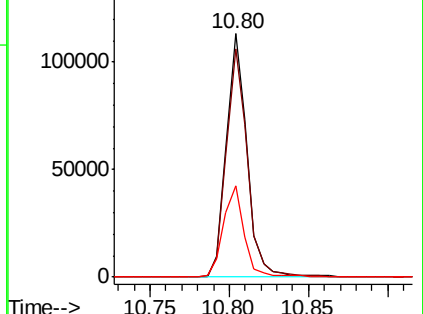
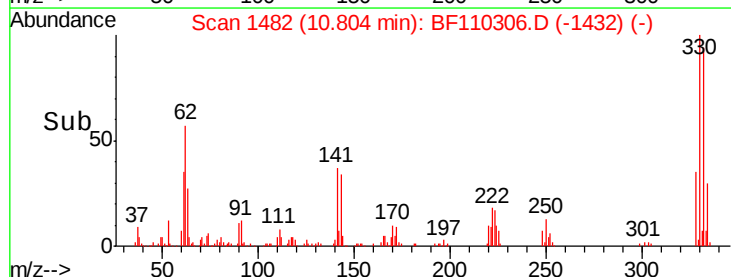
141 37.8 27.0 40.4

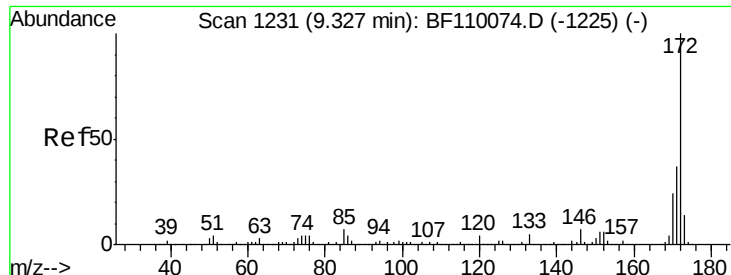


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

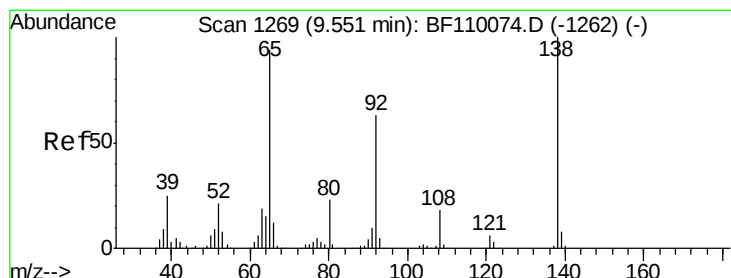
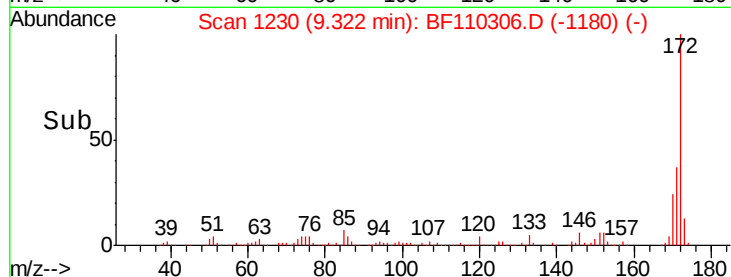
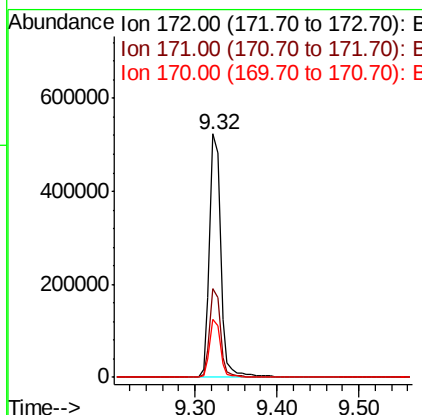
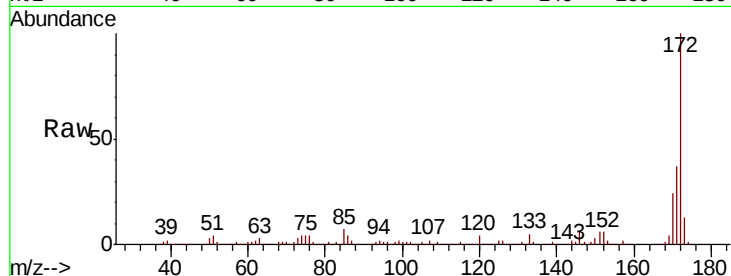




#45
 2-Fluorobiphenyl
 Concen: 40.456 ng
 RT: 9.32 min Scan# 1230
 Delta R.T. -0.01 min
 Lab File: BF110306.D
 Acq: 30 Oct 2018 16:41

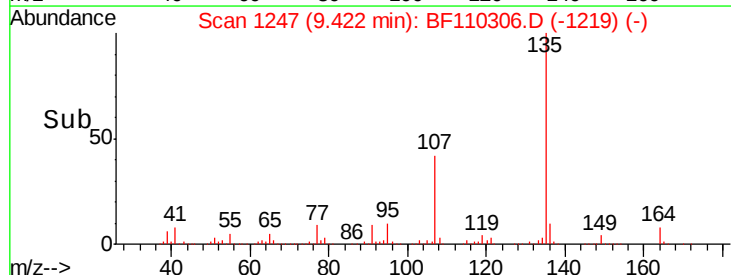
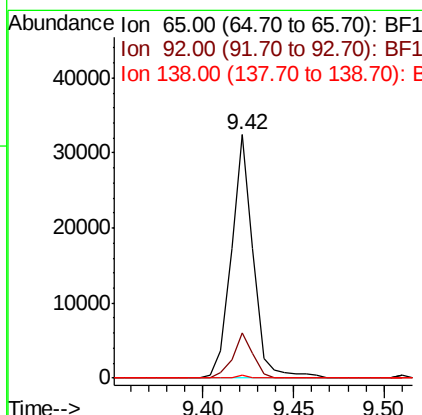
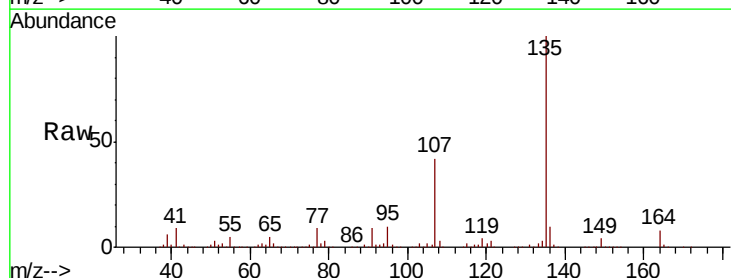
Instrument :
 BNA_F
 ClientSampleId :
 DARK-SOIL(IN-BUCKET)

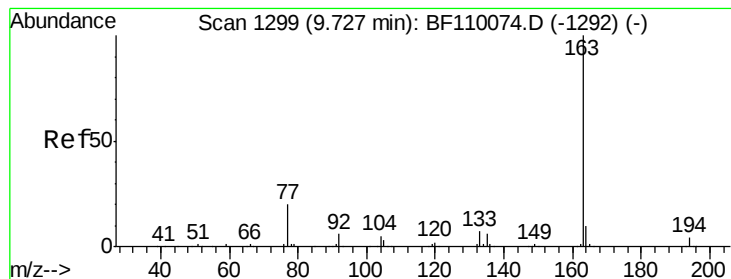
Tgt Ion: 172 Resp: 503320
 Ion Ratio Lower Upper
 172 100
 171 36.6 28.6 43.0
 170 23.7 19.7 29.5



#48
 2-Nitroaniline
 Concen: 6.933 ng
 RT: 9.42 min Scan# 1247
 Delta R.T. -0.14 min
 Lab File: BF110306.D
 Acq: 30 Oct 2018 16:41

Tgt Ion: 65 Resp: 27226
 Ion Ratio Lower Upper
 65 100
 92 18.8 54.6 81.8#
 138 1.3 80.3 120.5#





#50

Dimethylphthalate

Concen: 3.894 ng

RT: 9.72 min Scan# 1297

Delta R.T. -0.01 min

Lab File: BF110306.D

Acq: 30 Oct 2018 16:41

Instrument :

BNA_F

ClientSampleId :

DARK-SOIL(IN-BUCKET)

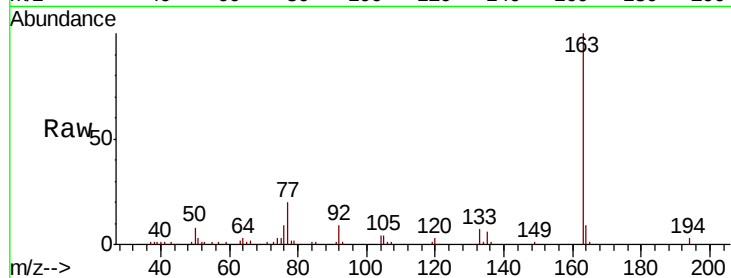
Tgt Ion:163 Resp: 56150

Ion Ratio Lower Upper

163 100

194 3.4 3.2 4.8

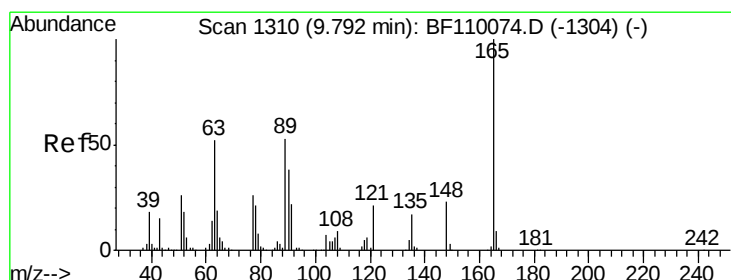
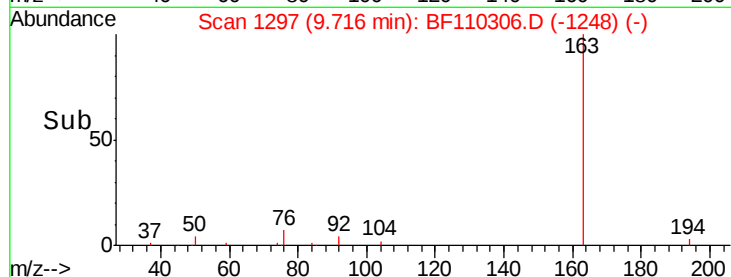
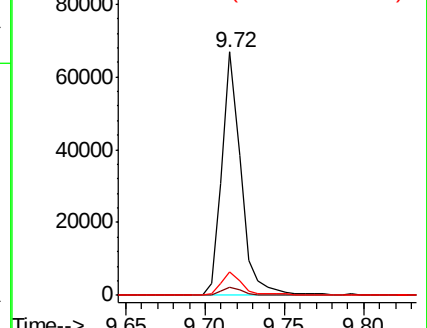
164 9.4 8.1 12.1



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

2,6-Dinitrotoluene

Concen: 7.925 ng

RT: 10.01 min Scan# 1347

Delta R.T. 0.22 min

Lab File: BF110306.D

Acq: 30 Oct 2018 16:41

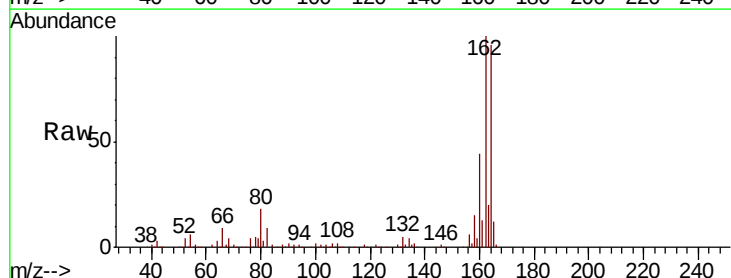
Tgt Ion:165 Resp: 24616

Ion Ratio Lower Upper

165 100

63 0.0 48.9 73.3#

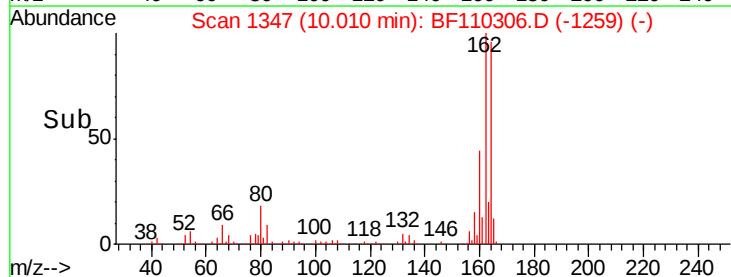
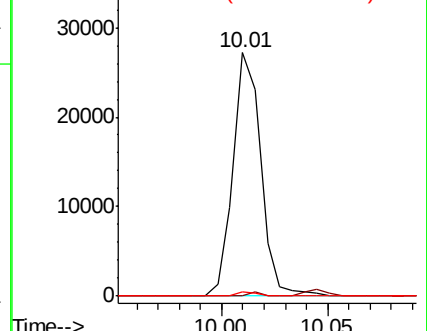
89 1.7 46.6 69.8#

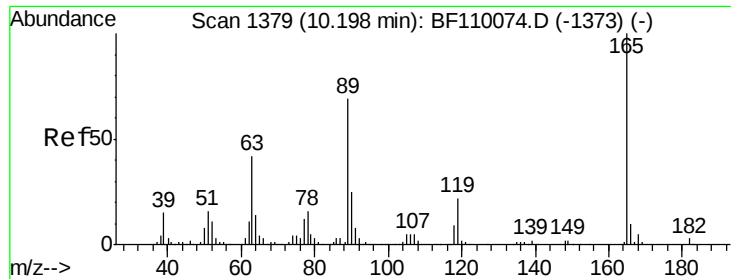


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

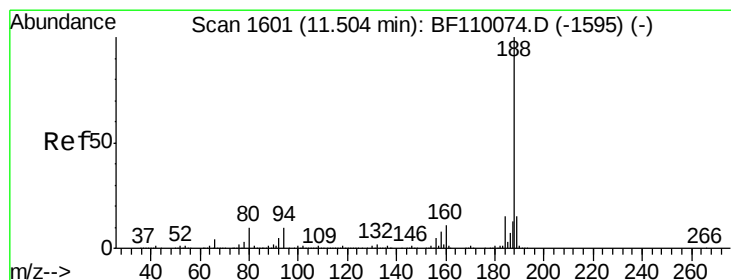
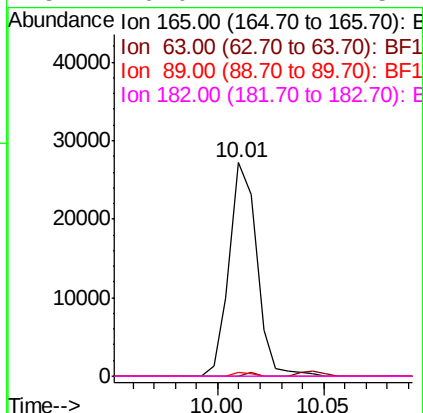
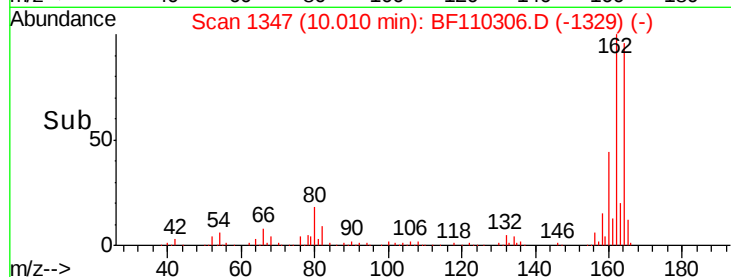
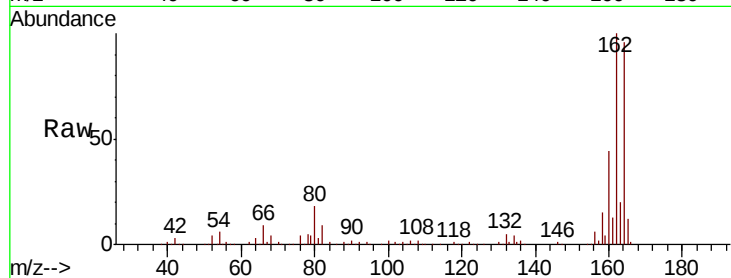




#57
2,4-Dinitrotoluene
Concen: 6.239 ng
RT: 10.01 min Scan# 1347
Delta R.T. -0.19 min
Lab File: BF110306.D
Acq: 30 Oct 2018 16:41

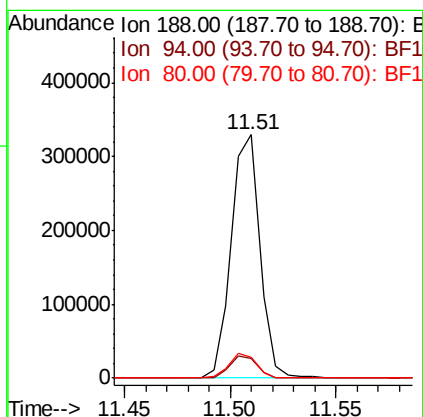
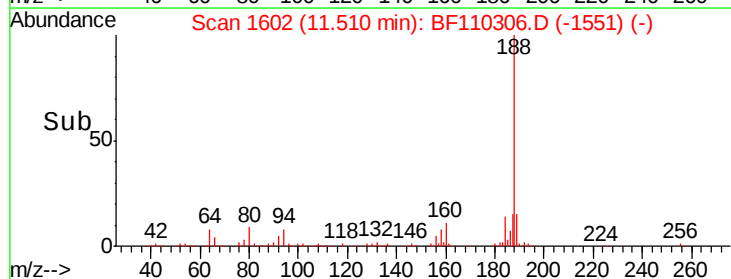
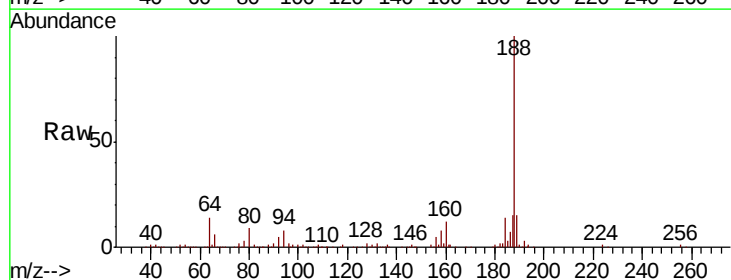
Instrument :
BNA_F
ClientSampleId :
DARK-SOIL(IN-BUCKET)

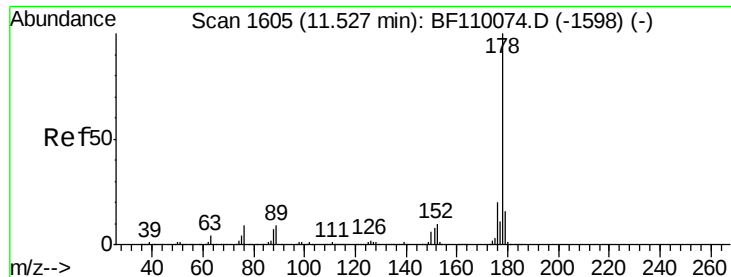
Tgt Ion	Ratio	Lower	Upper
165	100		
63	0.0	44.8	67.2#
89	1.7	62.2	93.4#
182	0.0	2.1	3.1#



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.51 min Scan# 1602
Delta R.T. -0.00 min
Lab File: BF110306.D
Acq: 30 Oct 2018 16:41

Tgt Ion	Ratio	Lower	Upper
188	100		
94	8.1	7.2	10.8
80	8.8	7.9	11.9

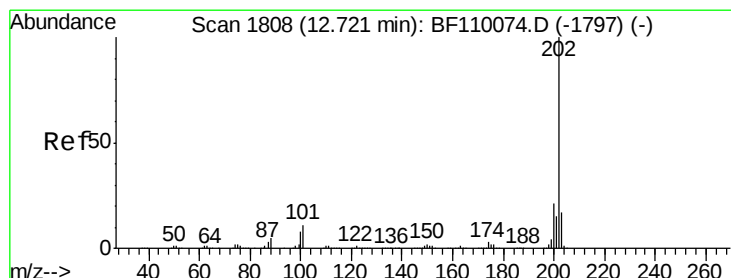
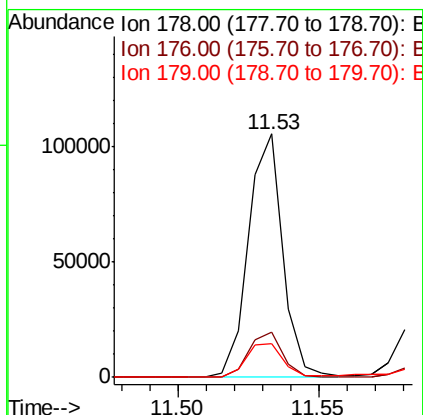
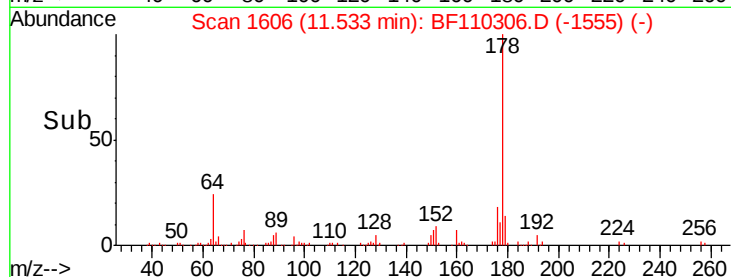
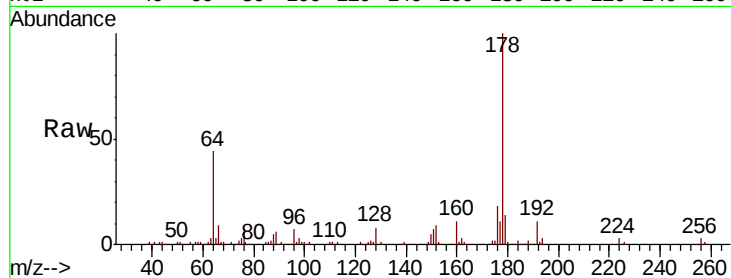




#71
Phenanthrene
Concen: 5.491 ng
RT: 11.53 min Scan# 1606
Delta R.T. 0.00 min
Lab File: BF110306.D
Acq: 30 Oct 2018 16:41

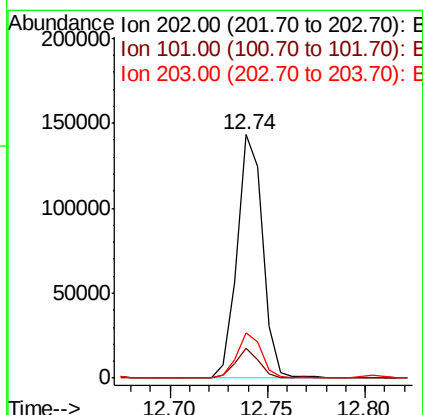
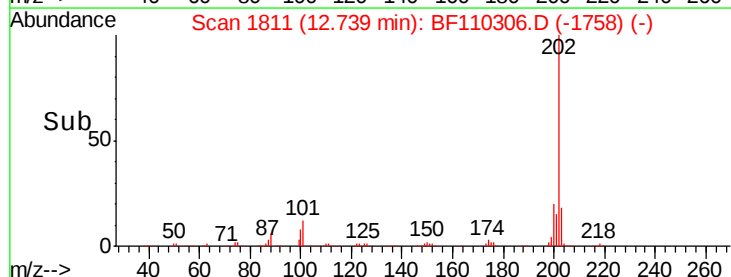
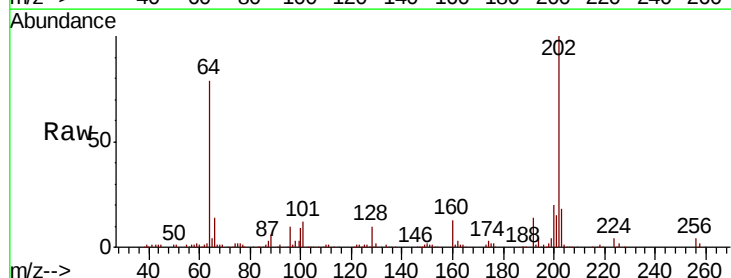
Instrument :
BNA_F
ClientSampleId :
DARK-SOIL(IN-BUCKET)

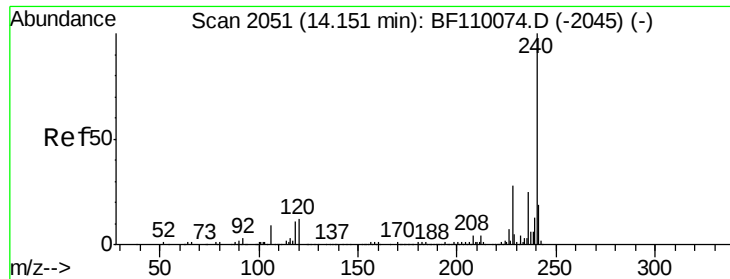
Tgt Ion:178 Resp: 88763
Ion Ratio Lower Upper
178 100
176 18.4 15.5 23.3
179 14.0 12.5 18.7



#75
Fluoranthene
Concen: 7.929 ng
RT: 12.74 min Scan# 1811
Delta R.T. 0.01 min
Lab File: BF110306.D
Acq: 30 Oct 2018 16:41

Tgt Ion:202 Resp: 130072
Ion Ratio Lower Upper
202 100
101 12.3 0.0 31.4
203 18.5 0.0 37.7

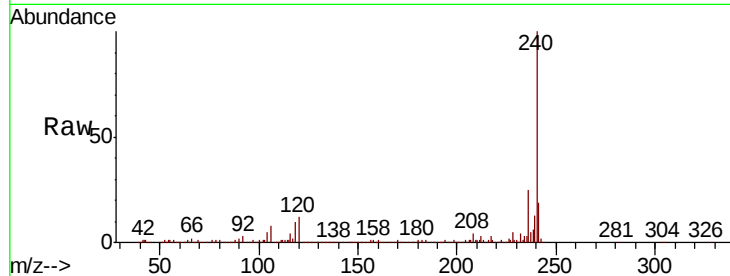




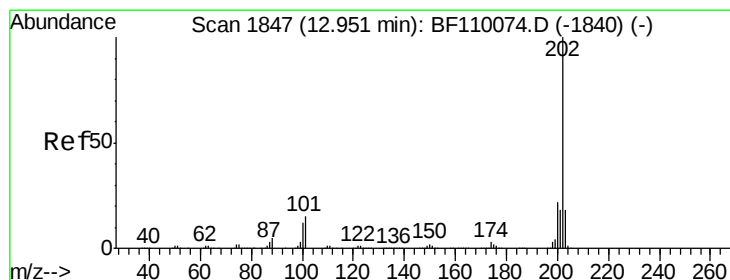
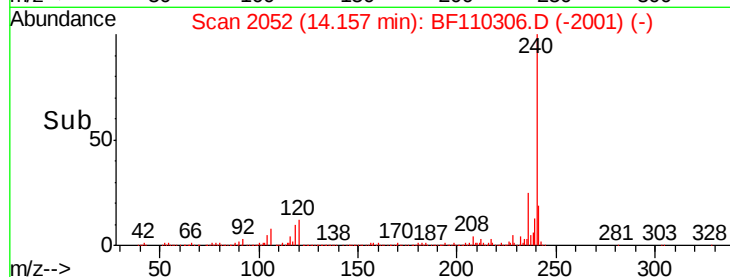
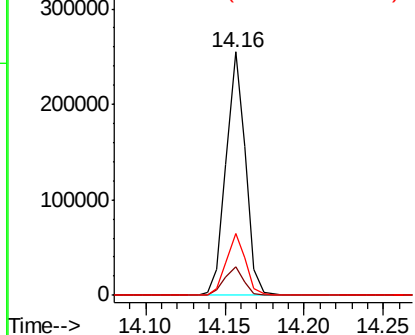
#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.16 min Scan# 2052
Delta R.T. -0.00 min
Lab File: BF110306.D
Acq: 30 Oct 2018 16:41

Instrument :
BNA_F
ClientSampleId :
DARK-SOIL(IN-BUCKET)

Tgt Ion:240 Resp: 216402
Ion Ratio Lower Upper
240 100
120 11.5 8.3 12.5
236 25.2 21.2 31.8

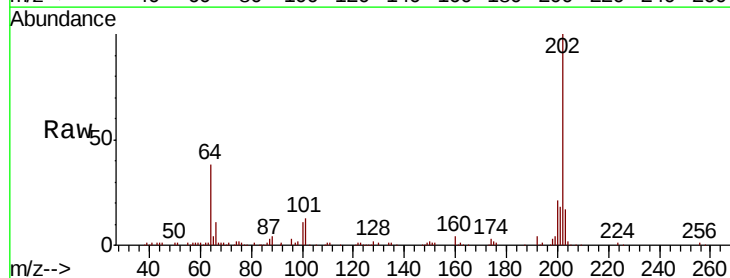


Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E

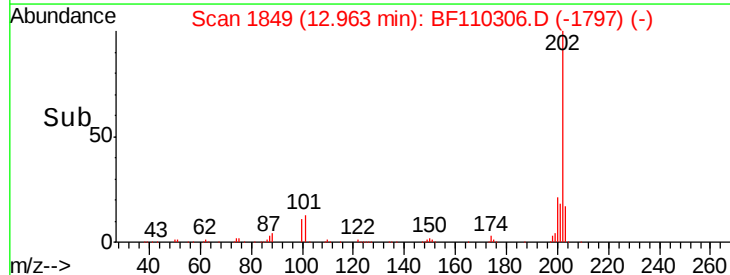
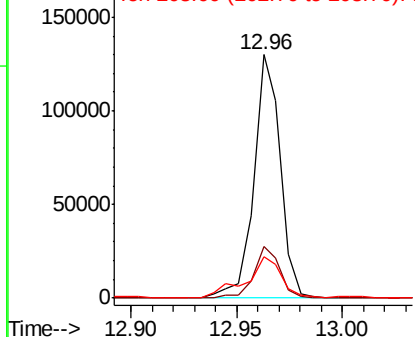


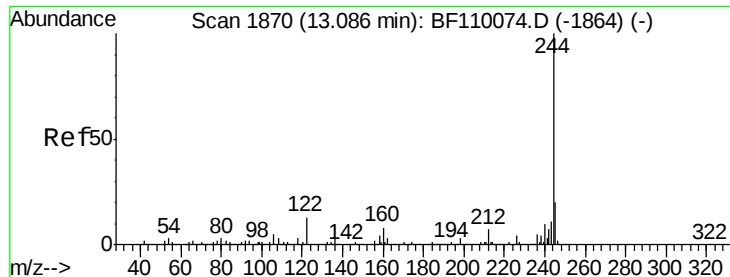
#78
Pyrene
Concen: 7.325 ng
RT: 12.96 min Scan# 1849
Delta R.T. 0.01 min
Lab File: BF110306.D
Acq: 30 Oct 2018 16:41

Tgt Ion:202 Resp: 113646
Ion Ratio Lower Upper
202 100
200 21.2 17.8 26.6
203 17.2 14.2 21.4



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





#79

Terphenyl-d14

Concen: 32.573 ng

RT: 13.09 min Scan# 1871

Delta R.T. -0.00 min

Lab File: BF110306.D

Acq: 30 Oct 2018 16:41

Instrument :

BNA_F

ClientSampleId :

DARK-SOIL(IN-BUCKET)

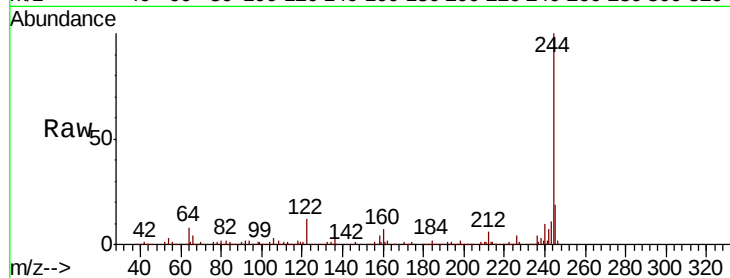
Tgt Ion:244 Resp: 338938

Ion Ratio Lower Upper

244 100

212 6.5 5.8 8.8

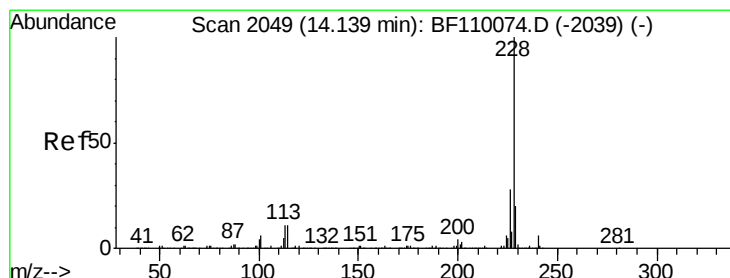
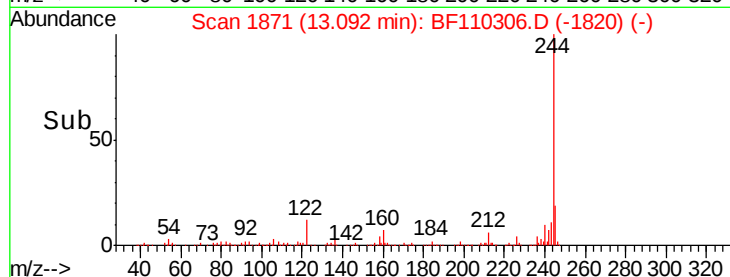
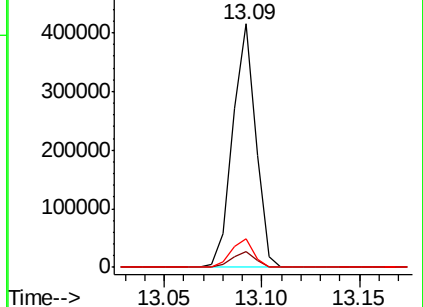
122 11.6 8.7 13.1



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



#81

Benzo(a)anthracene

Concen: 4.281 ng

RT: 14.14 min Scan# 2050

Delta R.T. 0.00 min

Lab File: BF110306.D

Acq: 30 Oct 2018 16:41

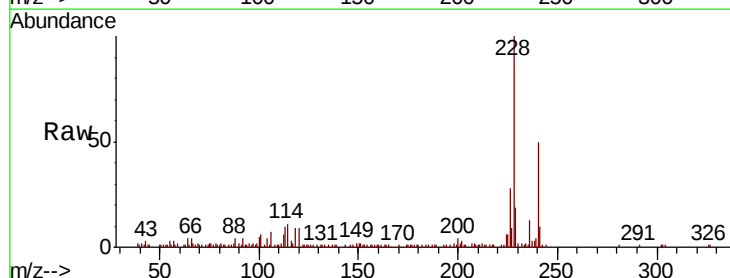
Tgt Ion:228 Resp: 54942

Ion Ratio Lower Upper

228 100

226 28.0 22.1 33.1

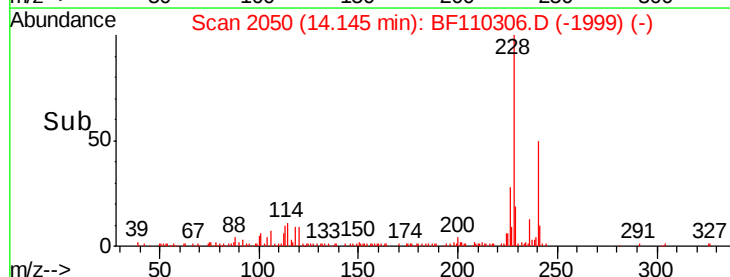
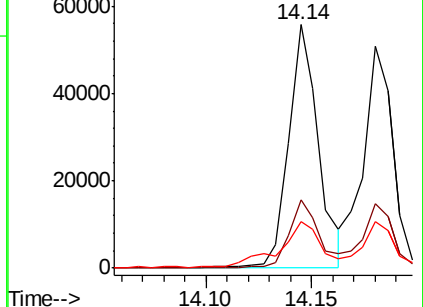
229 19.3 15.6 23.4

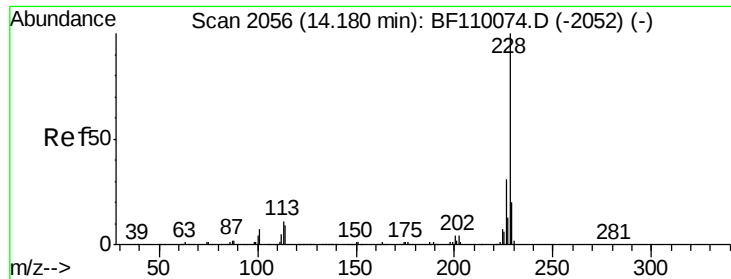


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#83

Chrysene

Concen: 4.103 ng

RT: 14.18 min Scan# 2056

Delta R.T. -0.01 min

Lab File: BF110306.D

Acq: 30 Oct 2018 16:41

Instrument :

BNA_F

ClientSampleId :

DARK-SOIL(IN-BUCKET)

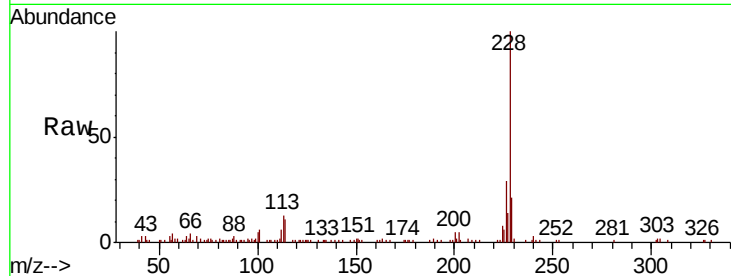
Tgt Ion:228 Resp: 50010

Ion Ratio Lower Upper

228 100

226 29.0 24.7 37.1

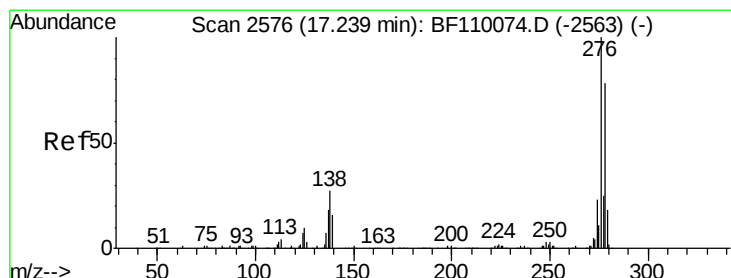
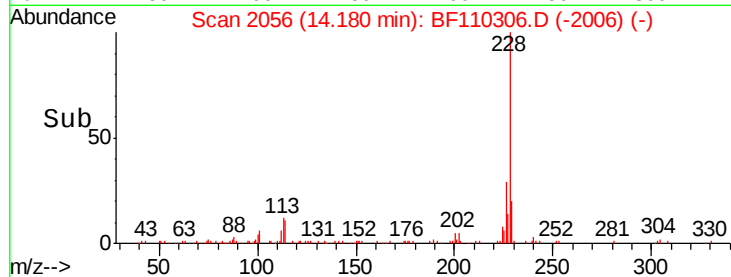
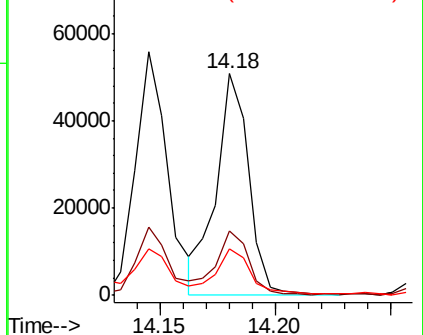
229 20.8 15.9 23.9



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



#86

Indeno(1,2,3-cd)pyrene

Concen: 2.088 ng

RT: 17.26 min Scan# 2580

Delta R.T. -0.00 min

Lab File: BF110306.D

Acq: 30 Oct 2018 16:41

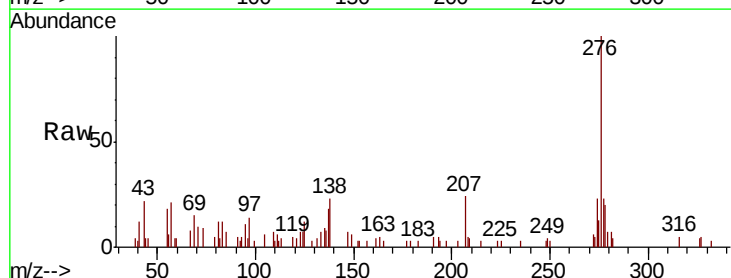
Tgt Ion:276 Resp: 21114

Ion Ratio Lower Upper

276 100

138 24.1 18.5 27.7

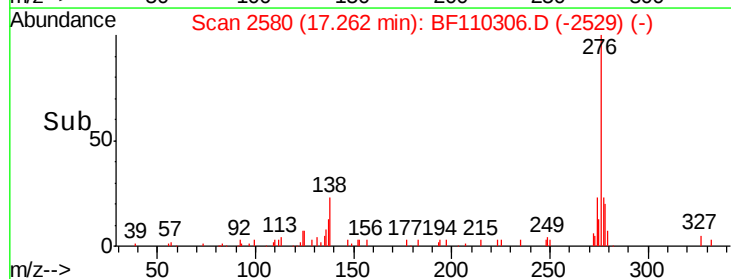
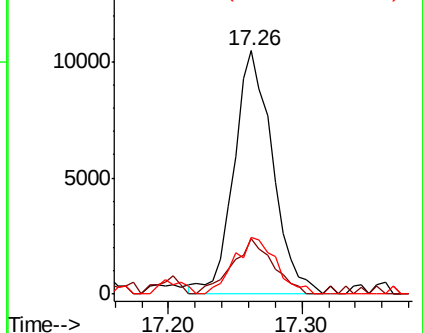
277 25.1 20.0 30.0

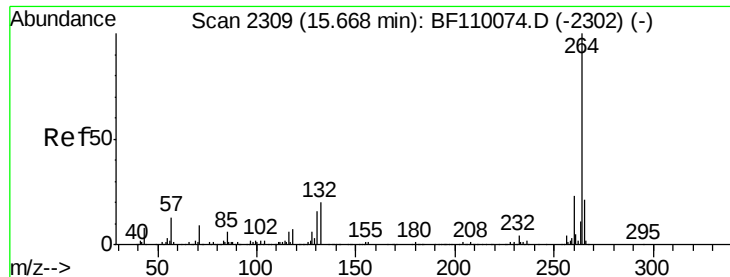


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

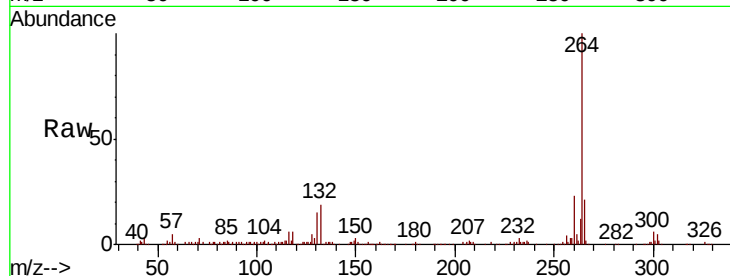




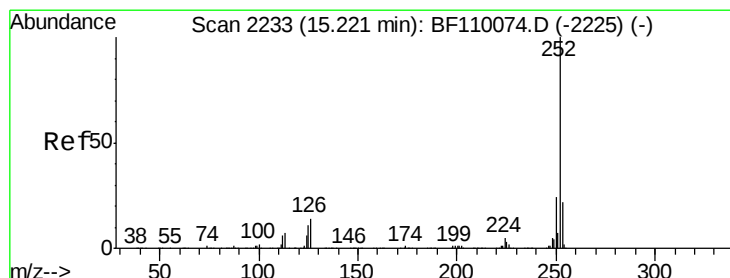
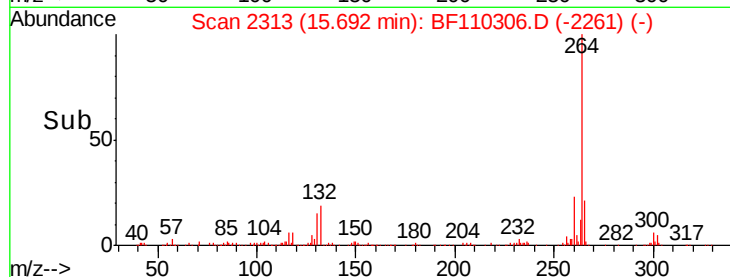
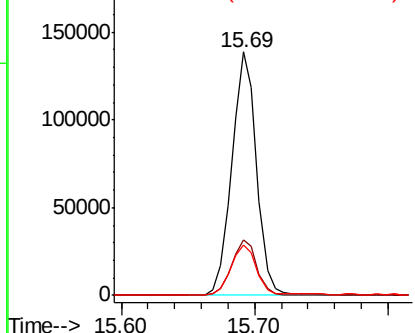
#87
Perylene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2313
Delta R.T. 0.01 min
Lab File: BF110306.D
Acq: 30 Oct 2018 16:41

Instrument :
BNA_F
ClientSampleId :
DARK-SOIL(IN-BUCKET)

Tgt Ion:264 Resp: 179177
Ion Ratio Lower Upper
264 100
260 22.5 18.7 28.1
265 20.8 16.7 25.1

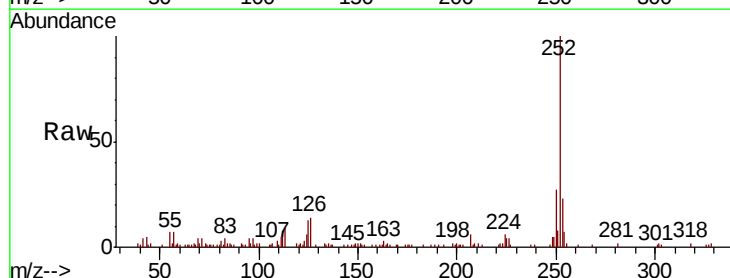


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

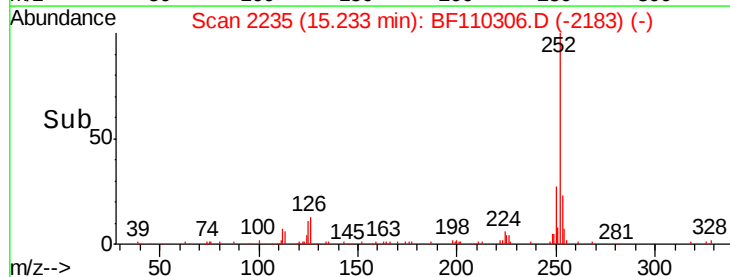
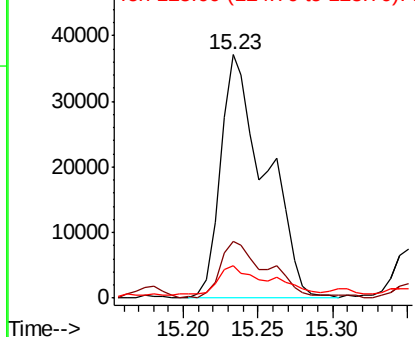


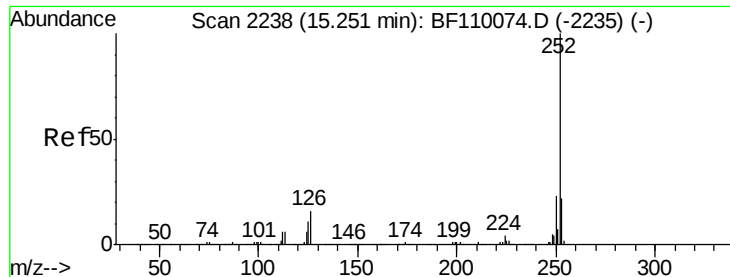
#88
Benzo(b)fluoranthene
Concen: 7.517 ng
RT: 15.23 min Scan# 2235
Delta R.T. 0.01 min
Lab File: BF110306.D
Acq: 30 Oct 2018 16:41

Tgt Ion:252 Resp: 77772
Ion Ratio Lower Upper
252 100
253 23.1 17.2 25.8
125 13.1 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

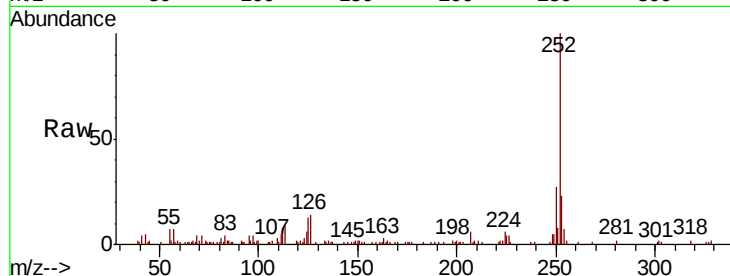




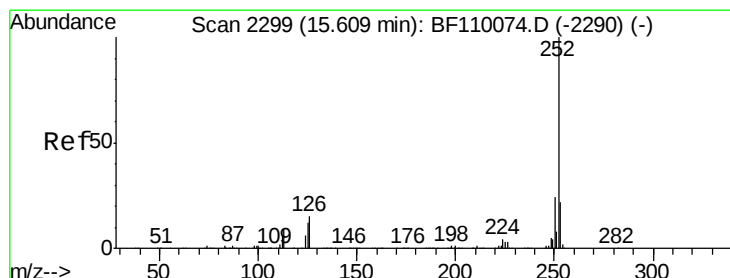
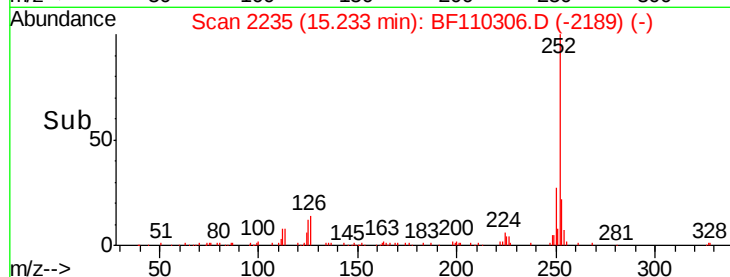
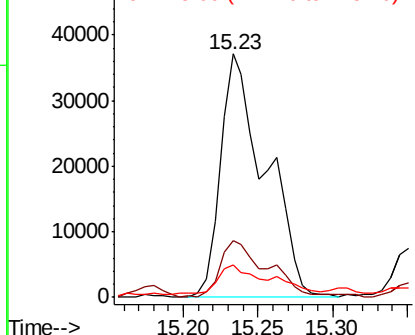
#89
Benzo(k)fluoranthene
Concen: 7.646 ng
RT: 15.23 min Scan# 2235
Delta R.T. -0.03 min
Lab File: BF110306.D
Acq: 30 Oct 2018 16:41

Instrument :
BNA_F
ClientSampleId :
DARK-SOIL(IN-BUCKET)

Tgt Ion:252 Resp: 77772
Ion Ratio Lower Upper
252 100
253 23.1 17.2 25.8
125 13.1 7.4 11.0#

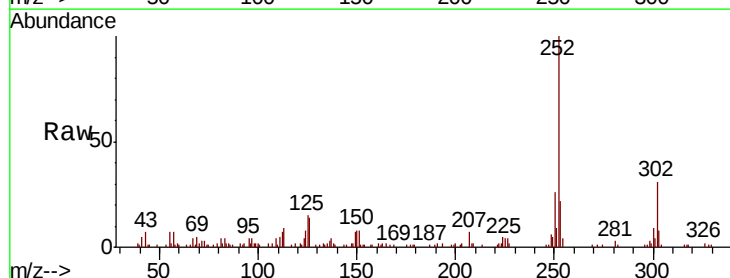


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

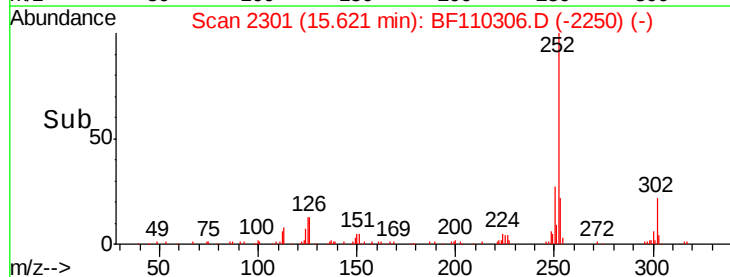
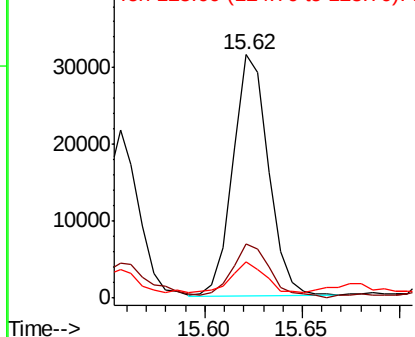


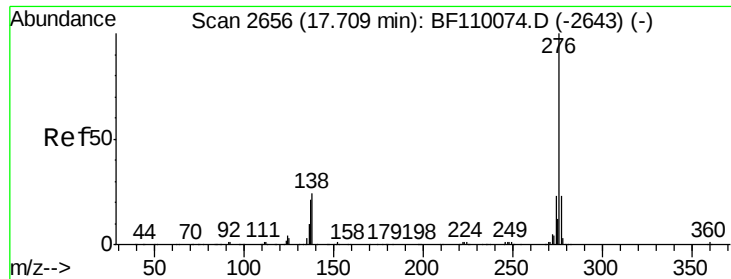
#90
Benzo(a)pyrene
Concen: 4.198 ng
RT: 15.62 min Scan# 2301
Delta R.T. 0.00 min
Lab File: BF110306.D
Acq: 30 Oct 2018 16:41

Tgt Ion:252 Resp: 39967
Ion Ratio Lower Upper
252 100
253 22.1 18.2 27.4
125 14.7 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





#92
 Benzo(g,h,i)perylene
 Concen: 2.325 ng
 RT: 17.74 min Scan# 2662
 Delta R.T. 0.01 min
 Lab File: BF110306.D
 Acq: 30 Oct 2018 16:41

Instrument :
 BNA_F
 ClientSampleId :
 DARK-SOIL(IN-BUCKET)

Tgt Ion:	276	Resp:	18824
Ion	Ratio	Lower	Upper
276	100		
277	23.5	18.8	28.2
138	19.6	16.0	24.0

