

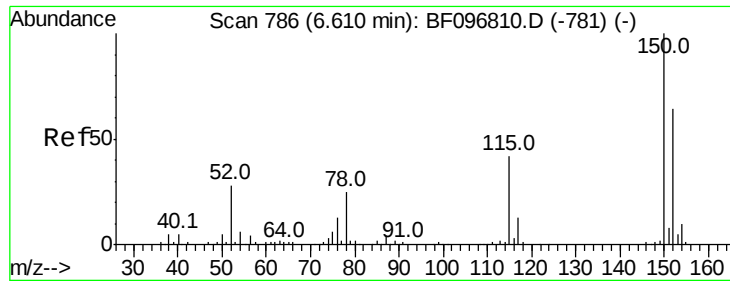
Data Path : Z:\HPCHEM1\BNA F\DATA\BF071717\
 Data File : BF096834.D
 Acq On : 17 Jul 2017 22:05
 Operator : SJ/JU
 Sample : I4216-07
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VITALE-TOPSOIL-1A

Quant Time: Jul 18 02:16:45 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF071317.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Thu Jul 13 14:49:34 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.61	152	100215	20.00	ng	-0.02
21) Naphthalene-d8	7.89	136	384348	20.00	ng	-0.03
38) Acenaphthene-d10	9.64	164	135532	20.00	ng	-0.03
63) Phenanthrene-d10	11.11	188	189942	20.00	ng	-0.04
75) Chrysene-d12	13.74	240	205326	20.00	ng	-0.04
86) Perylene-d12	15.11	264	166039	20.00	ng	-0.05
System Monitoring Compounds						
5) 2-Fluorophenol	5.23	112	811487	121.75	ng	0.00
7) Phenol-d6	6.27	99	946806	118.38	ng	-0.01
23) Nitrobenzene-d5	7.18	82	541542	87.27	ng	-0.02
41) 2,4,6-Tribromophenol	10.42	330	127046	109.82	ng	-0.04
44) 2-Fluorobiphenyl	8.97	172	801916	93.48	ng	-0.03
78) Terphenyl-d14	12.70	244	476583	40.25	ng	-0.04
Target Compounds						
19) n-Nitroso-di-n-propylamine	7.17	70	71478	14.834	ng	# 86
25) Isophorone	7.18	82	540433	46.818	ng	# 67
49) Dimethylphthalate	9.36	163	65065	6.376	ng	100
50) 2,6-Dinitrotoluene	9.64	165	16838	7.618	ng	# 34
56) 2,4-Dinitrotoluene	9.64	165	16838	5.928	ng	# 34
66) 4-Bromophenyl-phenylether	10.42	248	8085	4.169	ng	# 1
70) Phenanthrene	11.13	178	24838	2.405	ng	99
74) Fluoranthene	12.32	202	34343	3.474	ng	94
85) Indeno(1,2,3-cd)pyrene	16.40	276	5755	3.804	ng	# 80
87) Benzo(b)fluoranthene	14.73	252	23510	2.348	ng	# 88
88) Benzo(k)fluoranthene	14.73	252	23510	2.479	ng	# 90

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

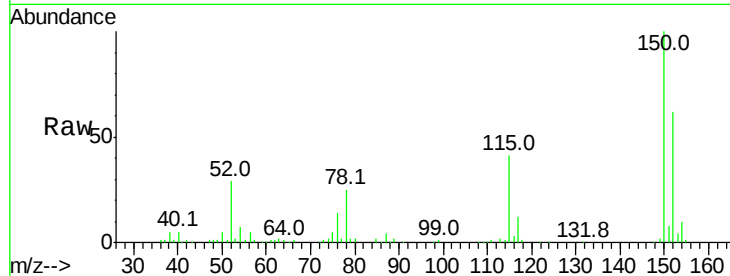


#1

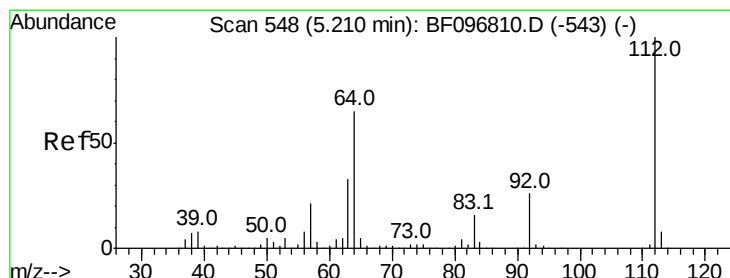
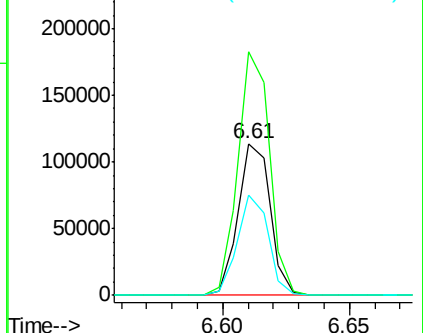
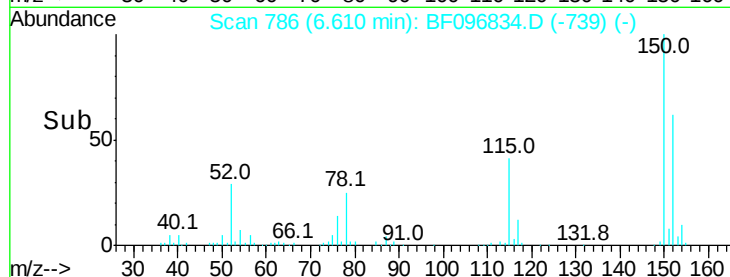
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.61 min Scan# 786
Delta R.T. -0.02 min
Lab File: BF096834.D
Acq: 17 Jul 2017 22:05

Instrument :
BNA_F
ClientSampleId :
VITALE-TOPSOIL-1A

Tot Ion:152 Resp: 100215
Ion Ratio Lower Upper
152 100
150 160.2 126.2 189.2
115 65.6 52.2 78.2



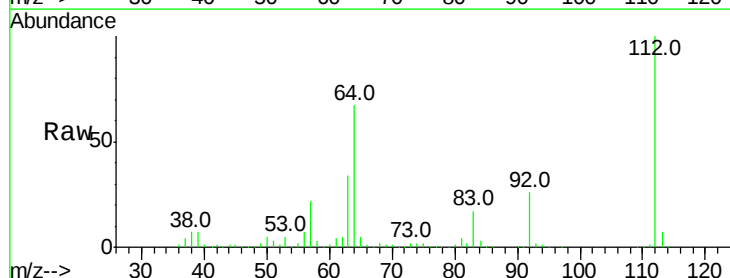
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



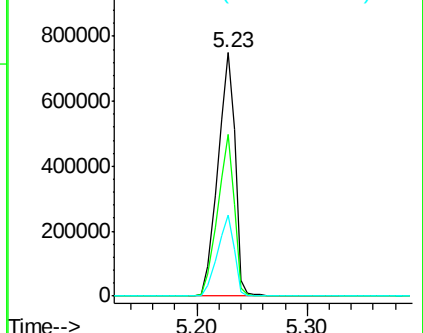
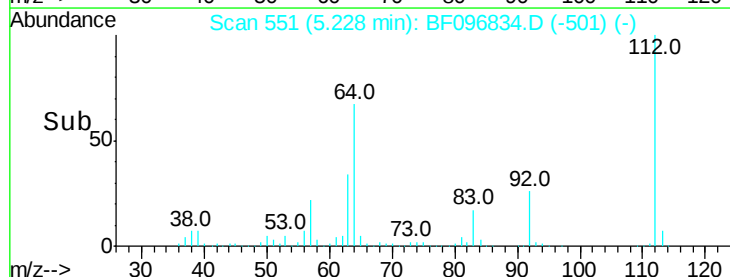
#5

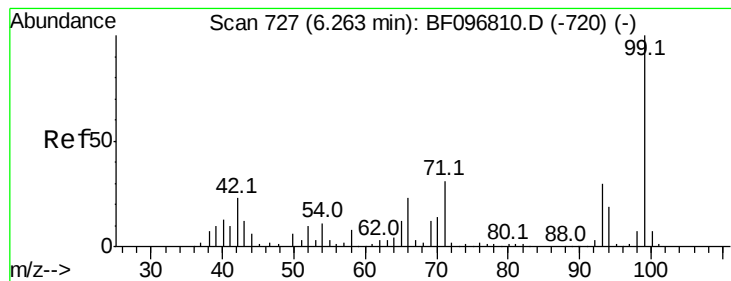
2-Fluorophenol
Concen: 121.752 ng
RT: 5.23 min Scan# 551
Delta R.T. -0.01 min
Lab File: BF096834.D
Acq: 17 Jul 2017 22:05

Tgt Ion:112 Resp: 811487
Ion Ratio Lower Upper
112 100
64 66.5 46.0 69.0
63 33.5 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: 118.376 ng

RT: 6.27 min Scan# 728

Delta R.T. -0.01 min

Lab File: BF096834.D

Acq: 17 Jul 2017 22:05

Instrument :

BNA_F

ClientSampleId :

VITALE-TOPSOIL-1A

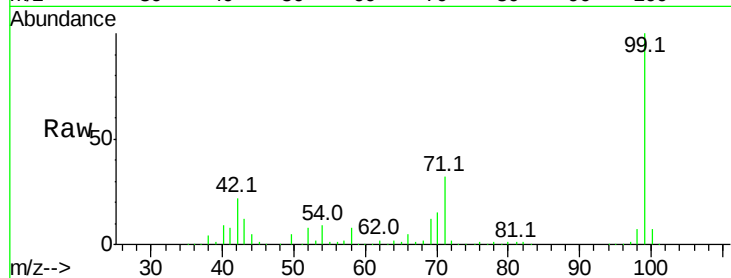
Tot Ion: 99 Resp: 946806

Ion Ratio Lower Upper

99 100

42 22.5 13.5 20.3#

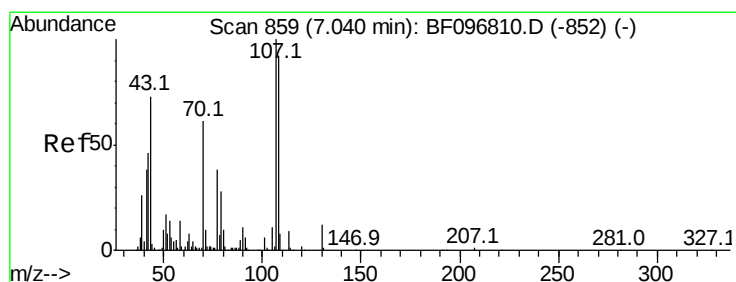
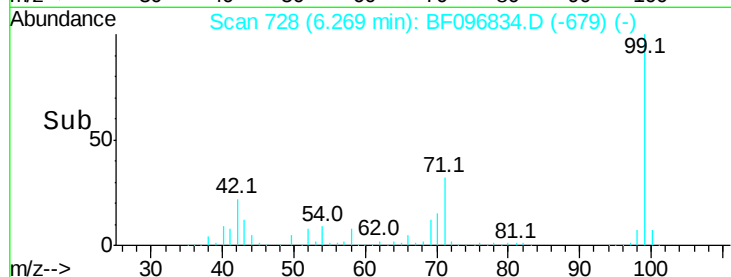
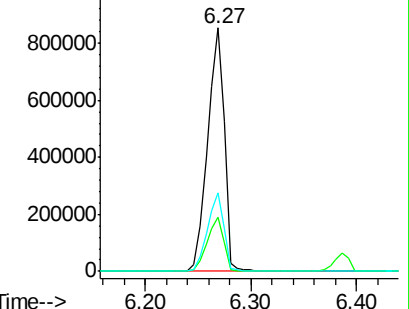
71 32.4 24.5 36.7



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: 14.834 ng

RT: 7.17 min Scan# 882

Delta R.T. 0.11 min

Lab File: BF096834.D

Acq: 17 Jul 2017 22:05

Tgt Ion: 70 Resp: 71478

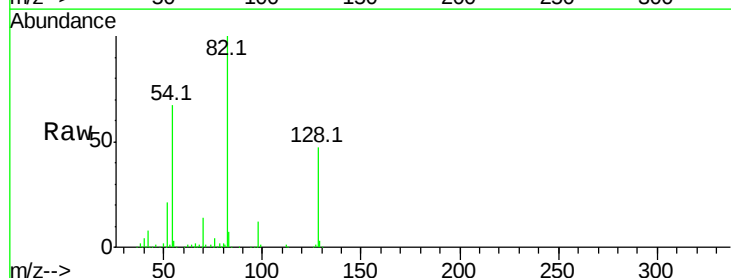
Ion Ratio Lower Upper

70 100

42 61.4 47.2 70.8

101 0.0 7.2 10.8#

130 1.6 15.9 23.9#

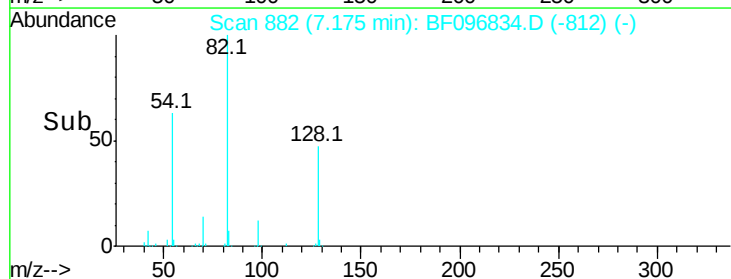
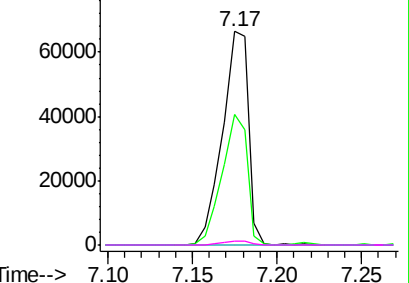


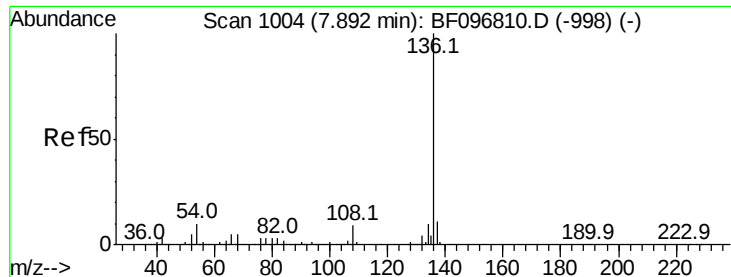
Abundance Ion 70.00 (69.70 to 70.70): BF0

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: 7.89 min Scan# 1004

Delta R.T. -0.03 min

Lab File: BF096834.D

Acq: 17 Jul 2017 22:05

Instrument :

BNA_F

ClientSampleId :

VITALE-TOPSOIL-1A

Tot Ion:136 Resp: 384348

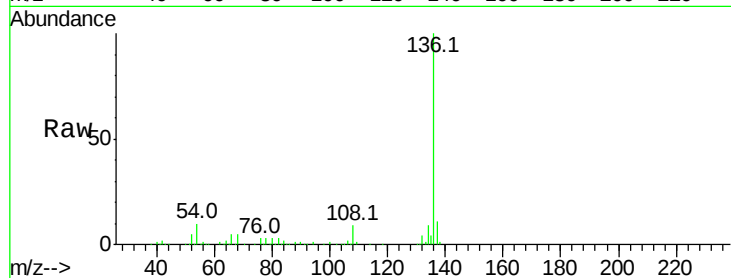
Ion Ratio Lower Upper

136 100

137 10.9 8.5 12.7

54 10.1 4.9 7.3#

68 4.8 4.1 6.1

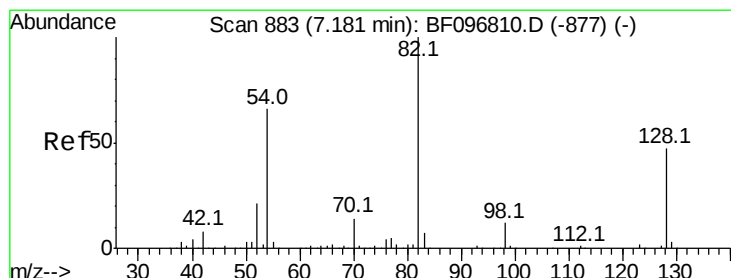
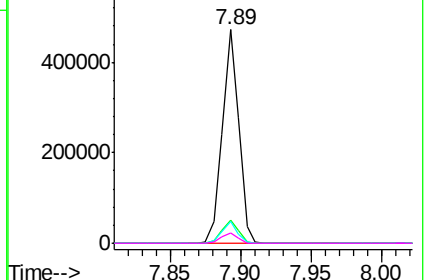
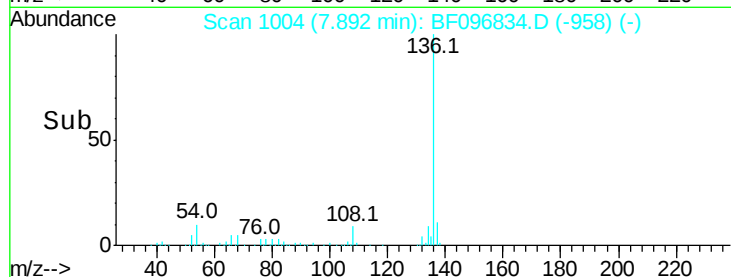


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF0

Ion 68.00 (67.70 to 68.70): BF0



#23

Nitrobenzene-d5

Concen: 87.274 ng

RT: 7.18 min Scan# 883

Delta R.T. -0.02 min

Lab File: BF096834.D

Acq: 17 Jul 2017 22:05

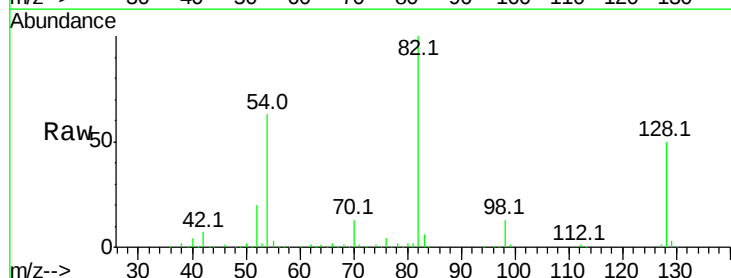
Tgt Ion: 82 Resp: 541542

Ion Ratio Lower Upper

82 100

128 49.5 34.0 51.0

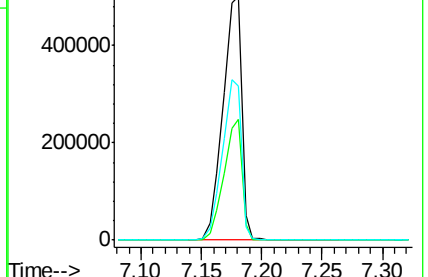
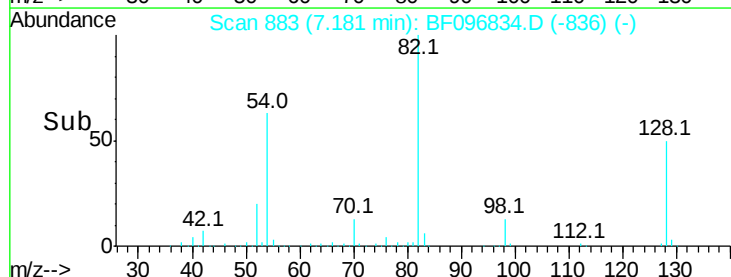
54 63.4 42.2 63.2#

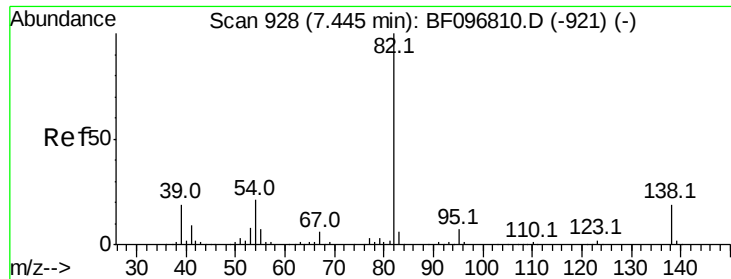


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 46.818 ng

RT: 7.18 min Scan# 883

Delta R.T. -0.29 min

Lab File: BF096834.D

Acq: 17 Jul 2017 22:05

Instrument :

BNA_F

ClientSampleId :

VITALE-TOPSOIL-1A

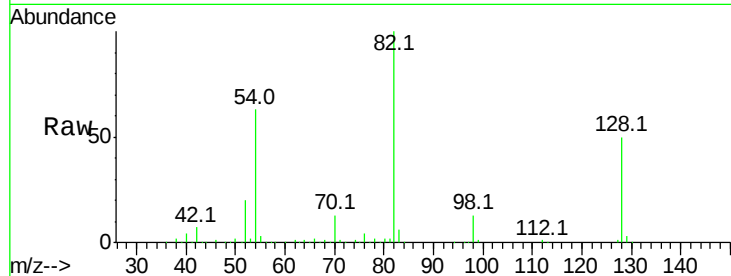
Tot Ion: 82 Resp: 540433

Ion Ratio Lower Upper

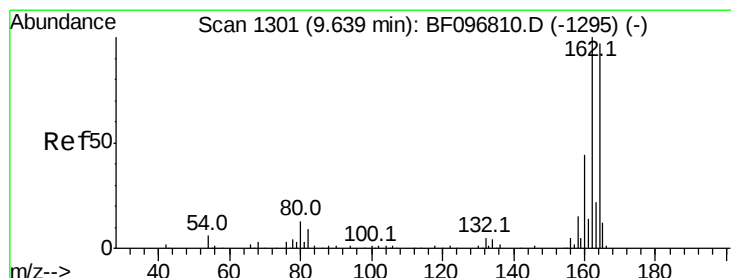
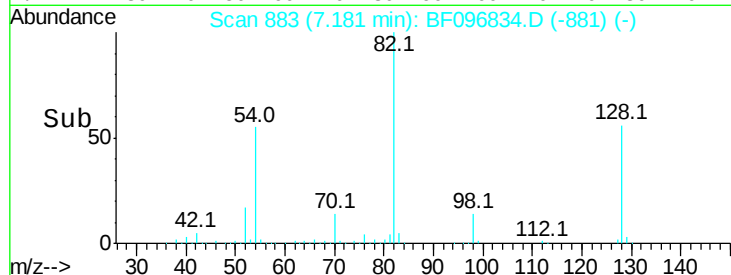
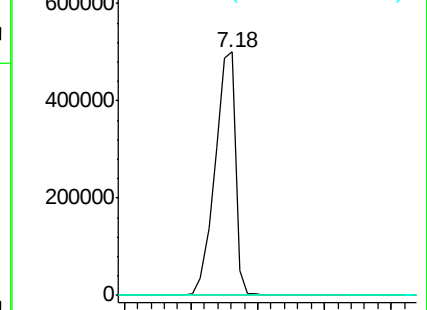
82 100

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): E



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.64 min Scan# 1301

Delta R.T. -0.03 min

Lab File: BF096834.D

Acq: 17 Jul 2017 22:05

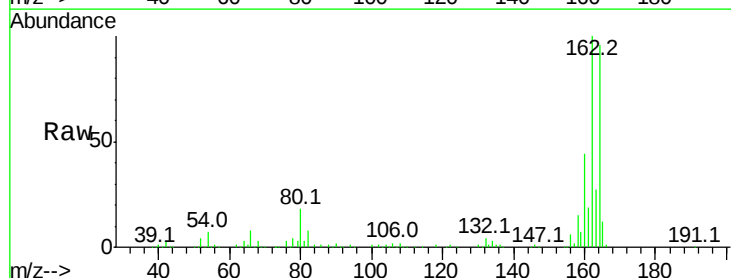
Tgt Ion:164 Resp: 135532

Ion Ratio Lower Upper

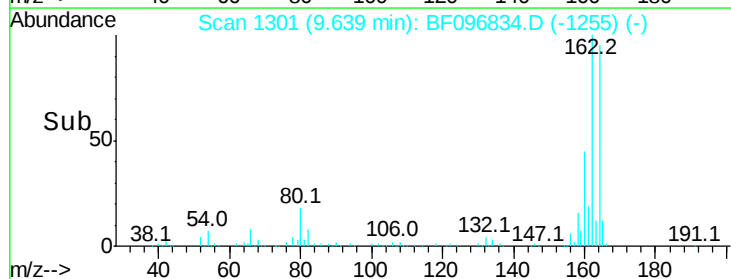
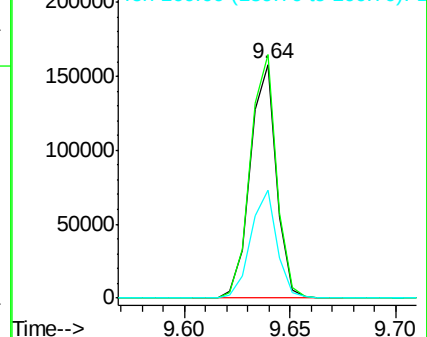
164 100

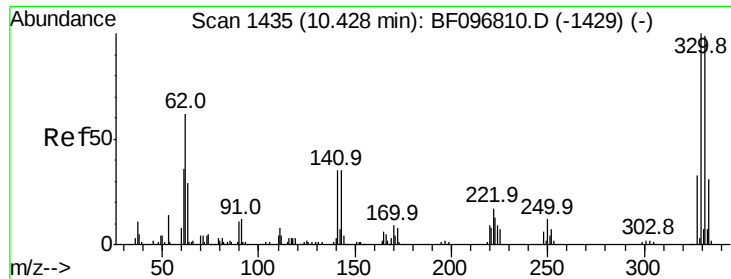
162 104.1 82.6 123.8

160 46.3 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

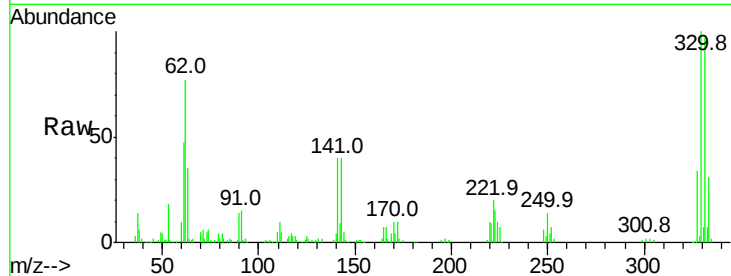




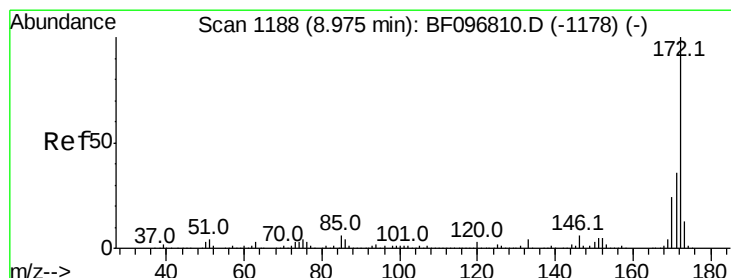
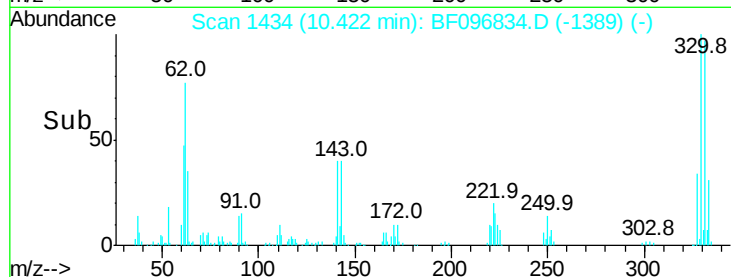
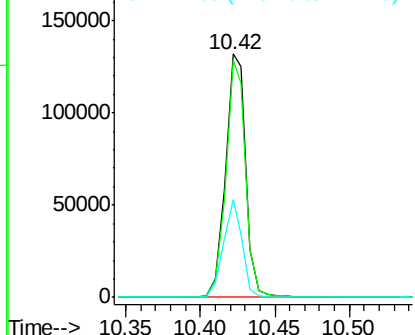
#41
 2,4,6-Tribromophenol
 Concen: 109.818 ng
 RT: 10.42 min Scan# 1434
 Delta R.T. -0.04 min
 Lab File: BF096834.D
 Acq: 17 Jul 2017 22:05

Instrument :
 BNA_F
 ClientSampleId :
 VITALE-TOPSOIL-1A

Tot Ion:330 Resp: 127046
 Ion Ratio Lower Upper
 330 100
 332 94.6 76.6 115.0
 141 37.2 31.4 47.2

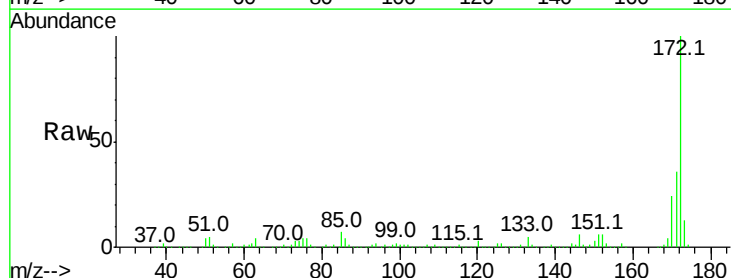


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

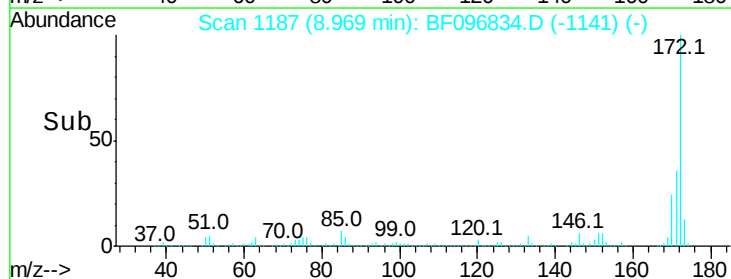
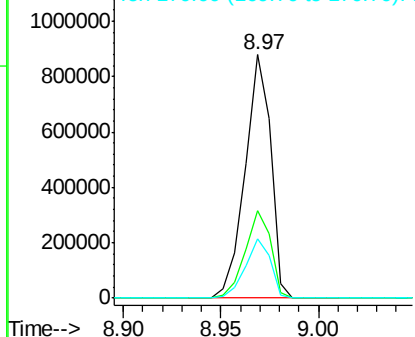


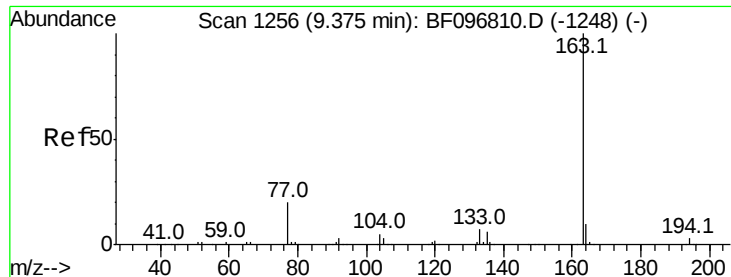
#44
 2-Fluorobiphenyl
 Concen: 93.481 ng
 RT: 8.97 min Scan# 1187
 Delta R.T. -0.03 min
 Lab File: BF096834.D
 Acq: 17 Jul 2017 22:05

Tgt Ion:172 Resp: 801916
 Ion Ratio Lower Upper
 172 100
 171 36.2 29.6 44.4
 170 24.4 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

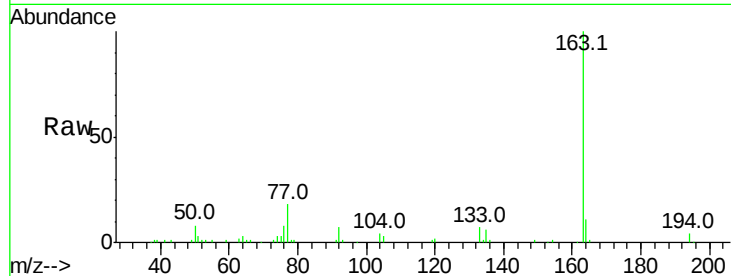




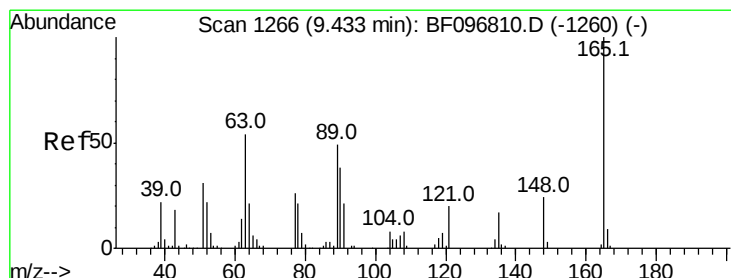
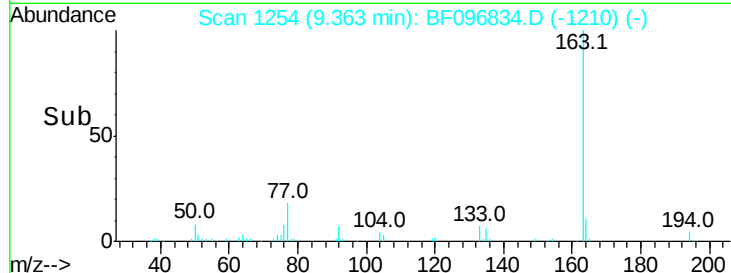
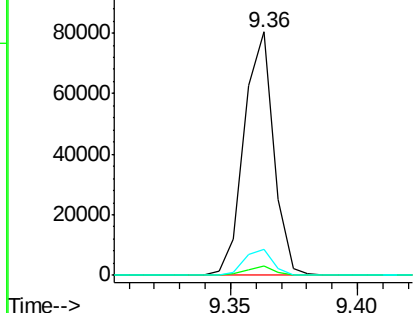
#49
Dimethylphthalate
Concen: 6.376 ng
RT: 9.36 min Scan# 1254
Delta R.T. -0.04 min
Lab File: BF096834.D
Acq: 17 Jul 2017 22:05

Instrument :
BNA_F
ClientSampleId :
VITALE-TOPSOIL-1A

Tot Ion:163 Resp: 65065
Ion Ratio Lower Upper
163 100
194 3.8 2.6 4.0
164 10.5 8.4 12.6

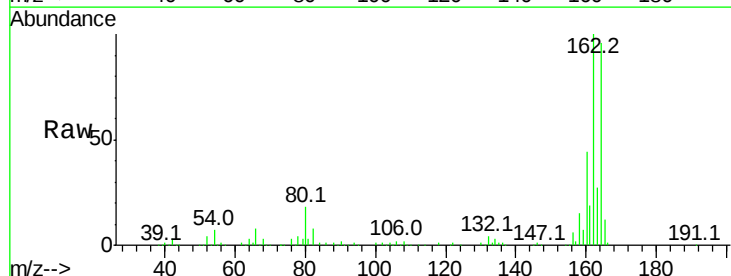


Abundance Ion 163.00 (162.70 to 163.70): E
Ion 194.00 (193.70 to 194.70): E
Ion 164.00 (163.70 to 164.70): E

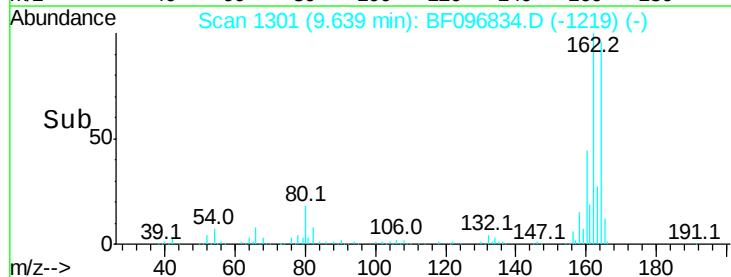
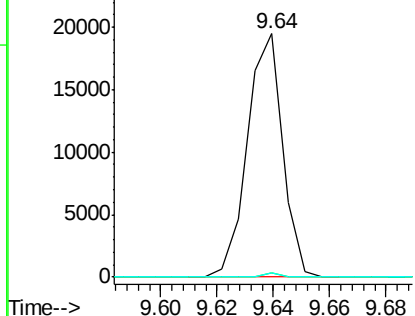


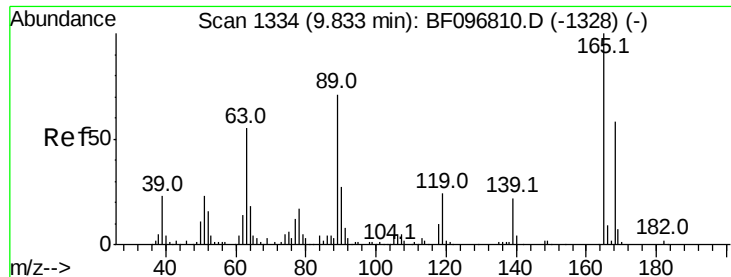
#50
2,6-Dinitrotoluene
Concen: 7.618 ng
RT: 9.64 min Scan# 1301
Delta R.T. 0.18 min
Lab File: BF096834.D
Acq: 17 Jul 2017 22:05

Tgt Ion:165 Resp: 16838
Ion Ratio Lower Upper
165 100
63 1.8 34.3 51.5#
89 1.8 37.1 55.7#



Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF0
Ion 89.00 (88.70 to 89.70): BF0

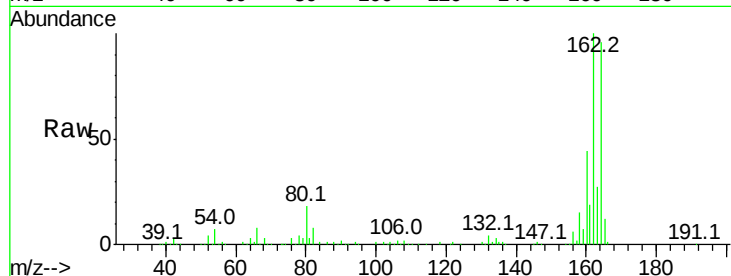




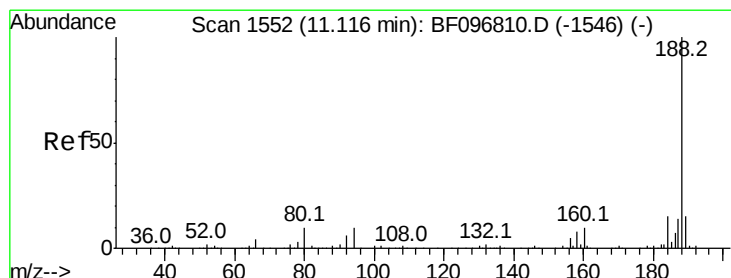
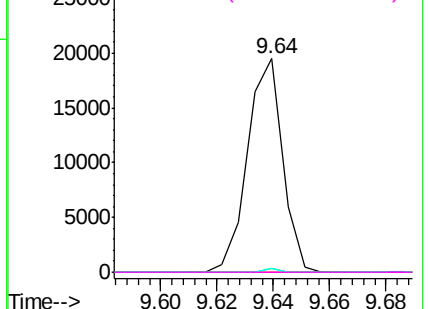
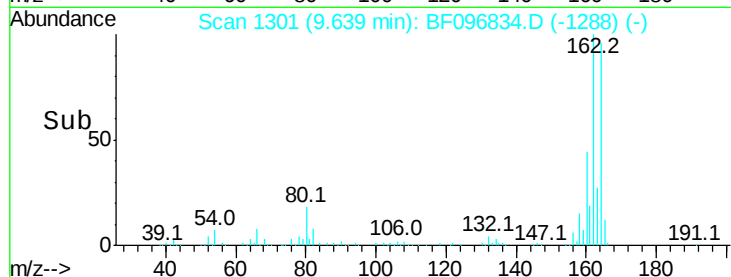
#56
 2,4-Dinitrotoluene
 Concen: 5.928 ng
 RT: 9.64 min Scan# 1301
 Delta R.T. -0.22 min
 Lab File: BF096834.D
 Acq: 17 Jul 2017 22:05

Instrument :
 BNA_F
 ClientSampleId :
 VITALE-TOPSOIL-1A

Tot Ion:165 Resp: 16838
 Ion Ratio Lower Upper
 165 100
 63 1.8 25.4 38.0#
 89 1.8 46.4 69.6#
 182 0.0 1.8 2.6#

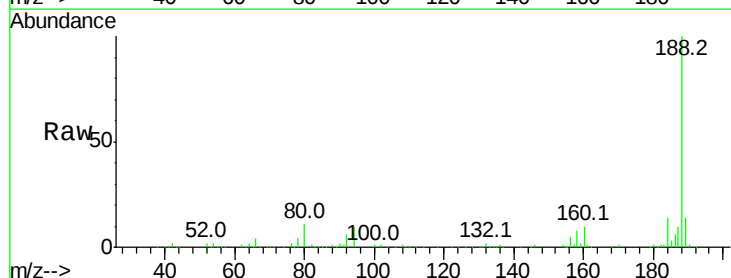


Abundance Ion 165.00 (164.70 to 165.70): E
 Ion 63.00 (62.70 to 63.70): BF0
 Ion 89.00 (88.70 to 89.70): BF0
 Ion 182.00 (181.70 to 182.70): E

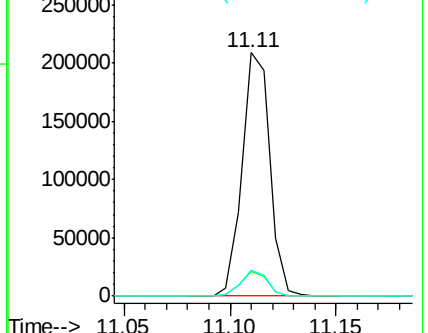
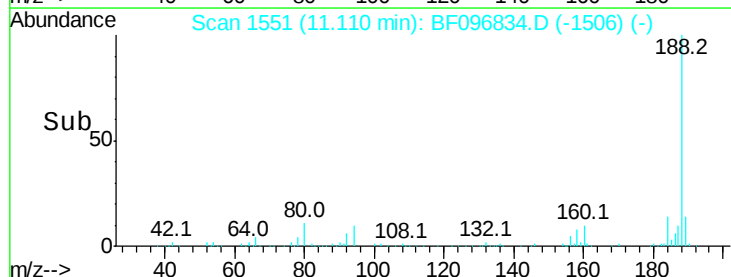


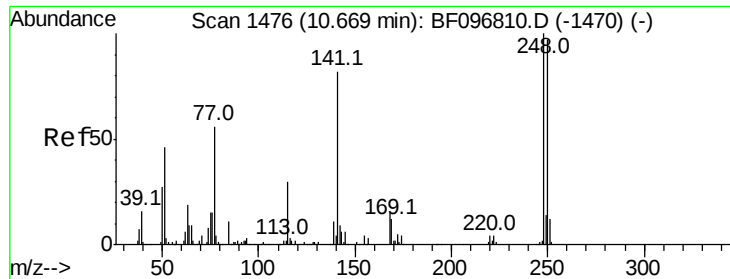
#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.11 min Scan# 1551
 Delta R.T. -0.04 min
 Lab File: BF096834.D
 Acq: 17 Jul 2017 22:05

Tgt Ion:188 Resp: 189942
 Ion Ratio Lower Upper
 188 100
 94 10.3 9.4 14.2
 80 10.8 10.2 15.2



Abundance Ion 188.00 (187.70 to 188.70): E
 Ion 94.00 (93.70 to 94.70): BF0
 Ion 80.00 (79.70 to 80.70): BF0

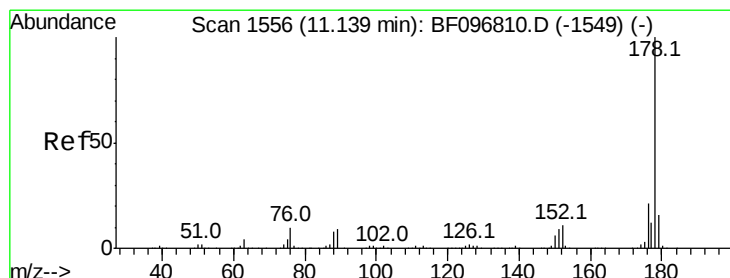
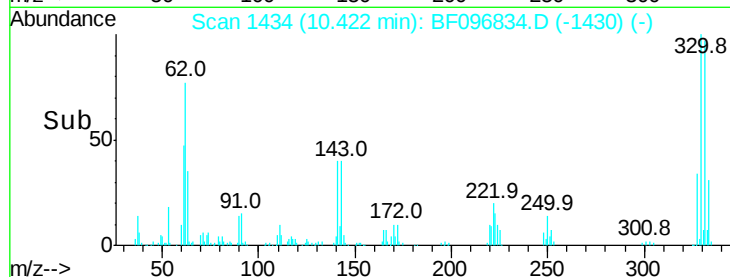
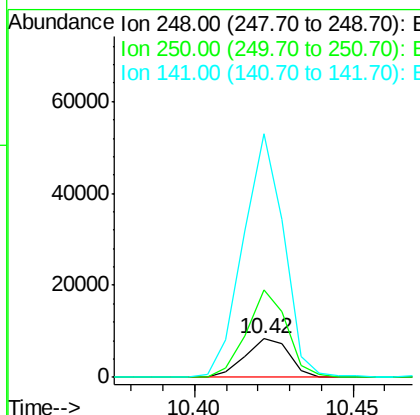
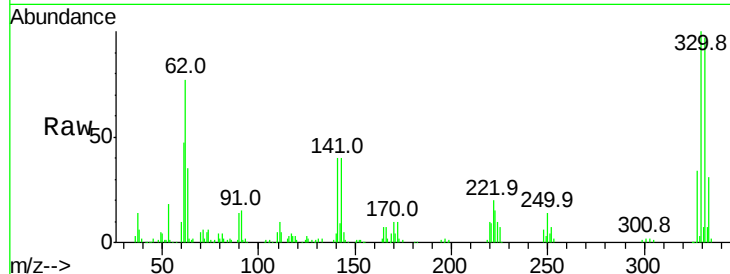




#66
 4-Bromophenyl-phenylether
 Concen: 4.169 ng
 RT: 10.42 min Scan# 1434
 Delta R.T. -0.28 min
 Lab File: BF096834.D
 Acq: 17 Jul 2017 22:05

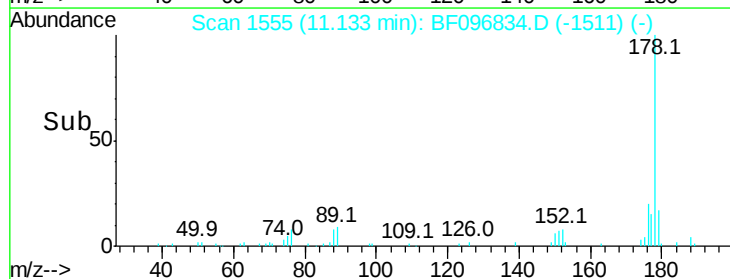
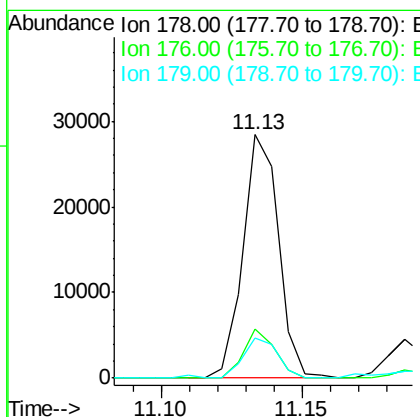
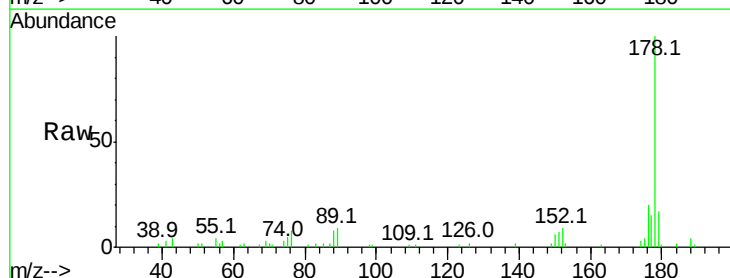
Instrument :
 BNA_F
 ClientSampleId :
 VITALE-TOPSOIL-1A

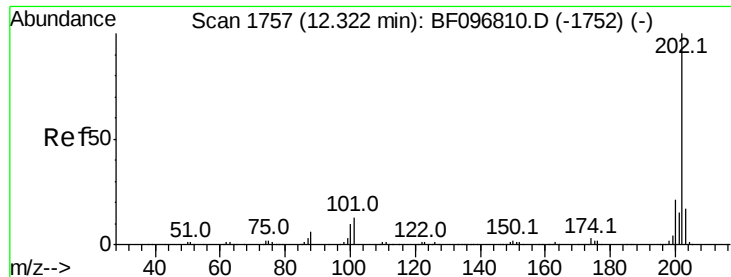
Tot Ion:248 Resp: 8085
 Ion Ratio Lower Upper
 248 100
 250 226.3 76.8 115.2#
 141 630.3 68.6 103.0#



#70
 Phenanthrene
 Concen: 2.405 ng
 RT: 11.13 min Scan# 1555
 Delta R.T. -0.04 min
 Lab File: BF096834.D
 Acq: 17 Jul 2017 22:05

Tgt Ion:178 Resp: 24838
 Ion Ratio Lower Upper
 178 100
 176 20.1 16.2 24.4
 179 16.6 12.6 19.0

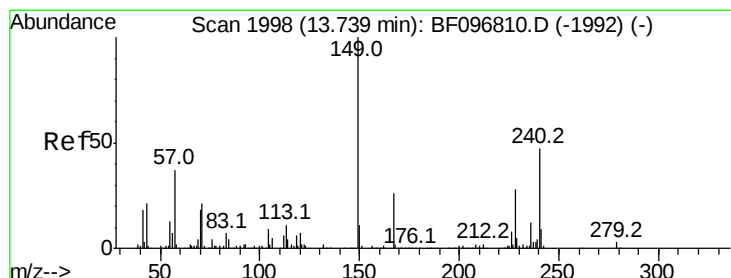
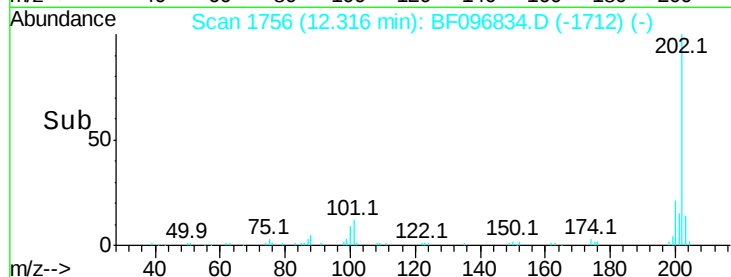
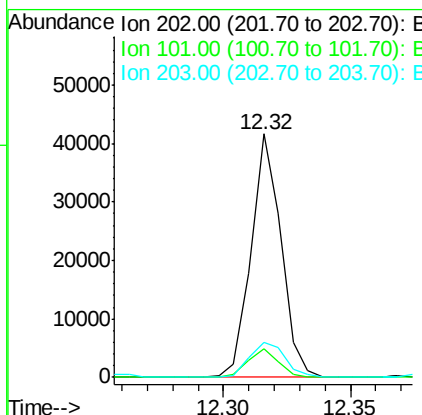
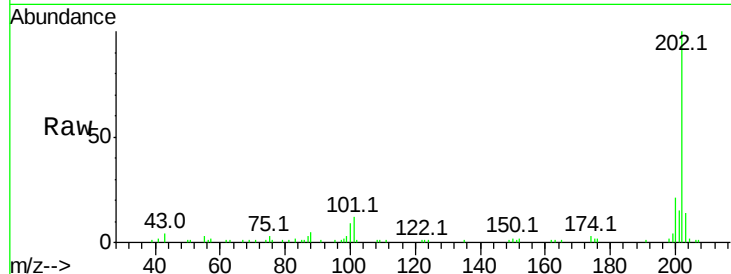




#74
 Fluoranthene
 Concen: 3.474 ng
 RT: 12.32 min Scan# 1756
 Delta R.T. -0.04 min
 Lab File: BF096834.D
 Acq: 17 Jul 2017 22:05

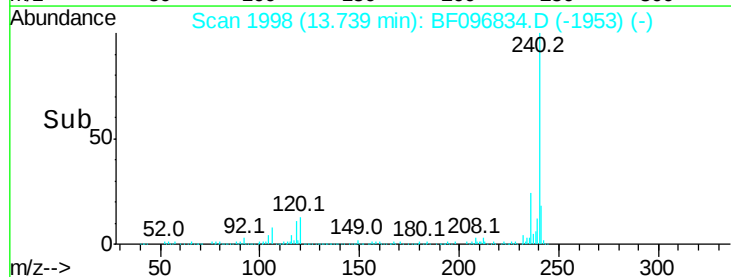
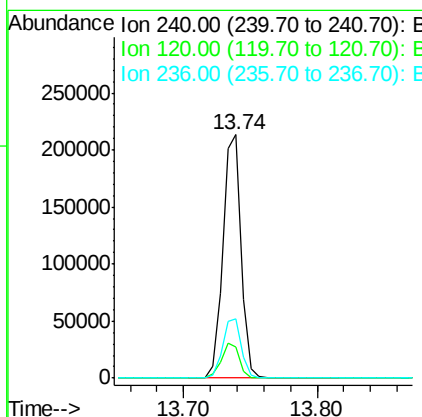
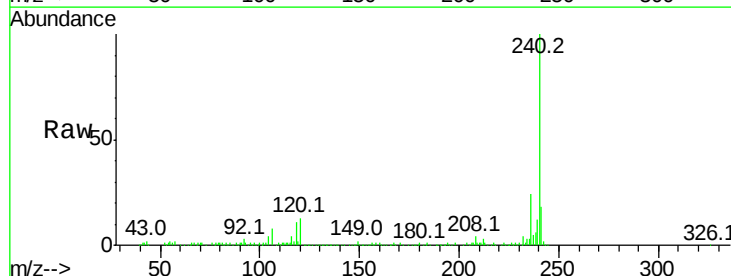
Instrument :
 BNA_F
 ClientSampleId :
 VITALE-TOPSOIL-1A

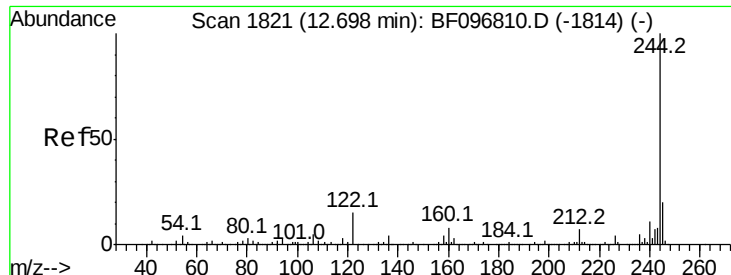
Tot Ion:202 Resp: 34343
 Ion Ratio Lower Upper
 202 100
 101 11.8 0.0 33.2
 203 14.5 0.0 38.1



#75
 Chrysene-d12
 Concen: 20.000 ng
 RT: 13.74 min Scan# 1998
 Delta R.T. -0.04 min
 Lab File: BF096834.D
 Acq: 17 Jul 2017 22:05

Tgt Ion:240 Resp: 205326
 Ion Ratio Lower Upper
 240 100
 120 12.8 5.8 8.8#
 236 24.5 20.5 30.7





#78

Terphenyl-d14

Concen: 40.254 ng

RT: 12.70 min Scan# 1821

Delta R.T. -0.04 min

Lab File: BF096834.D

Acq: 17 Jul 2017 22:05

Instrument :

BNA_F

ClientSampleId :

VITALE-TOPSOIL-1A

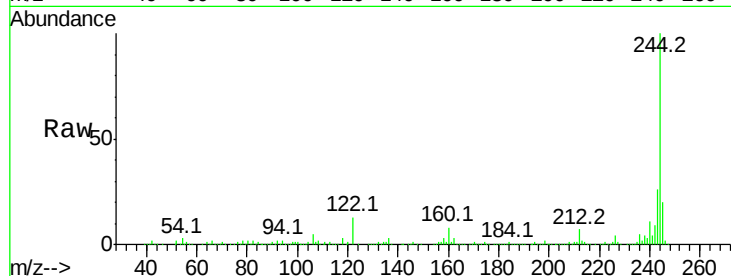
Tot Ion:244 Resp: 476583

Ion Ratio Lower Upper

244 100

212 7.0 6.0 9.0

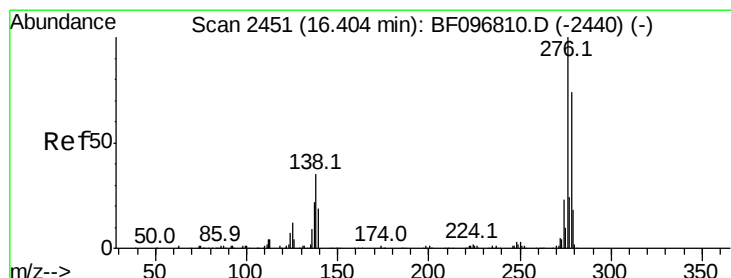
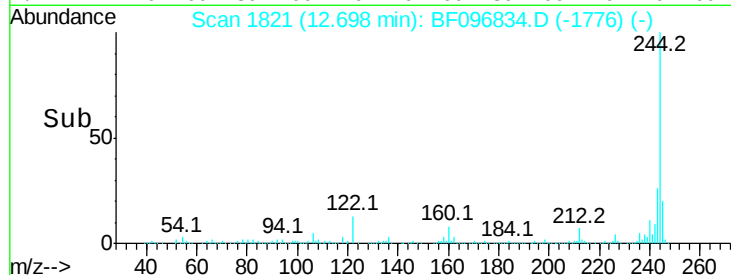
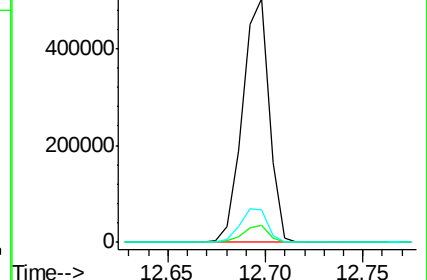
122 13.4 10.3 15.5



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



#85

Indeno(1,2,3-cd)pyrene

Concen: 3.804 ng

RT: 16.40 min Scan# 2450

Delta R.T. -0.07 min

Lab File: BF096834.D

Acq: 17 Jul 2017 22:05

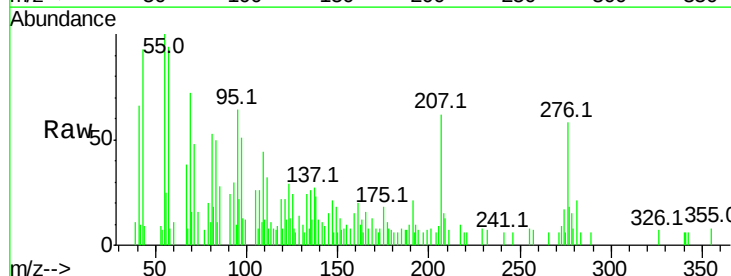
Tgt Ion:276 Resp: 5755

Ion Ratio Lower Upper

276 100

138 53.1 27.8 41.6#

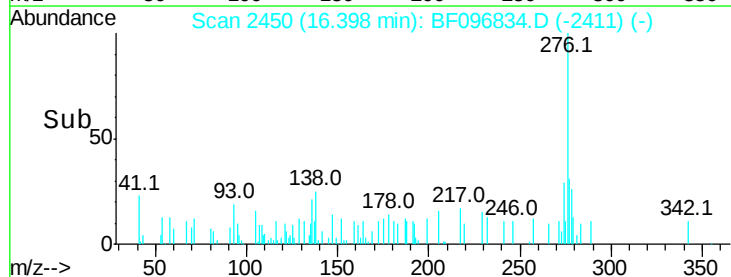
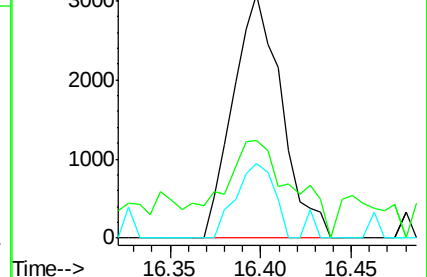
277 24.0 20.2 30.4

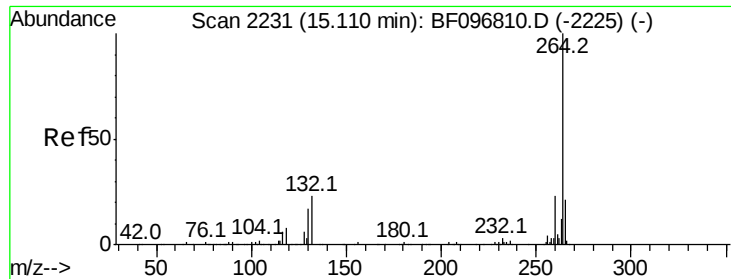


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

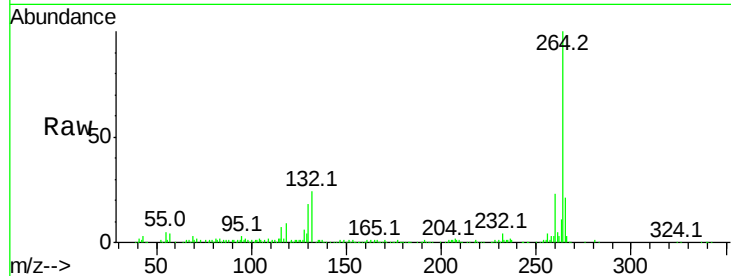




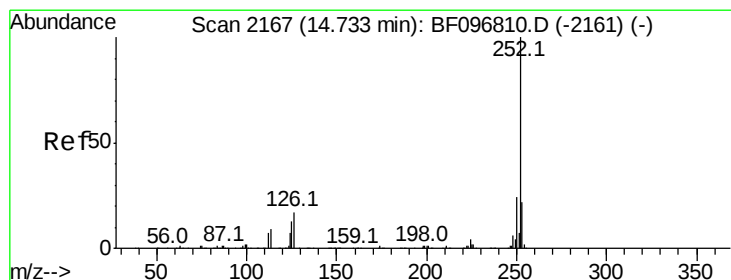
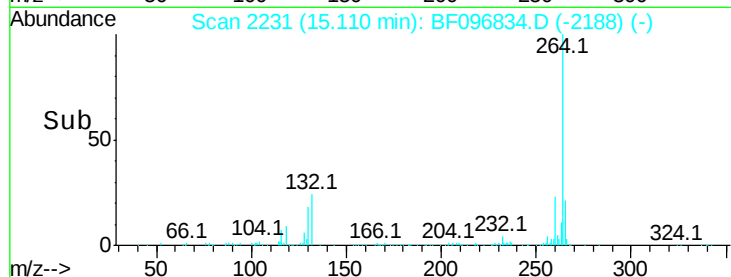
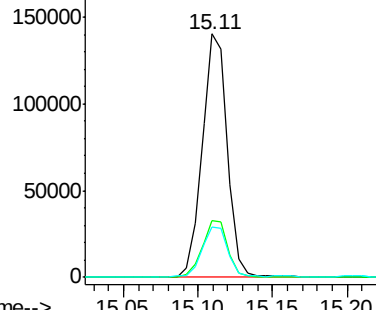
#86
Pervlene-d12
Concen: 20.000 ng
RT: 15.11 min Scan# 2231
Delta R.T. -0.05 min
Lab File: BF096834.D
Acq: 17 Jul 2017 22:05

Instrument :
BNA_F
ClientSampleId :
VITALE-TOPSOIL-1A

Tot Ion:264 Resp: 166039
Ion Ratio Lower Upper
264 100
260 23.2 19.5 29.3
265 20.7 17.2 25.8

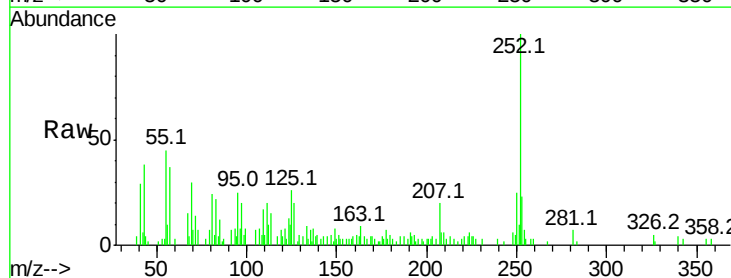


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

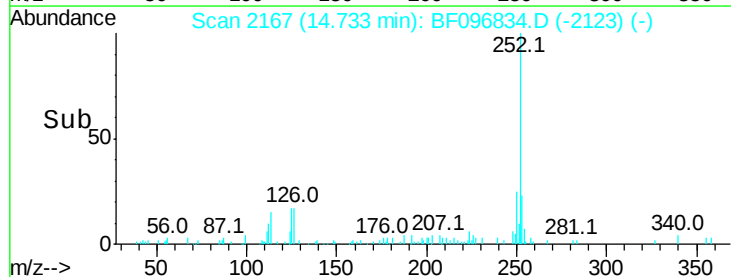
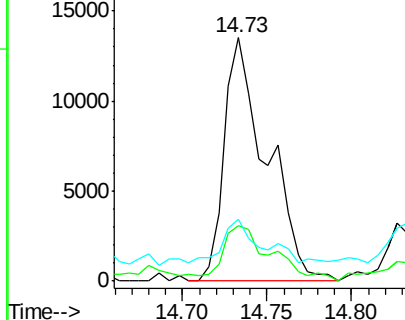


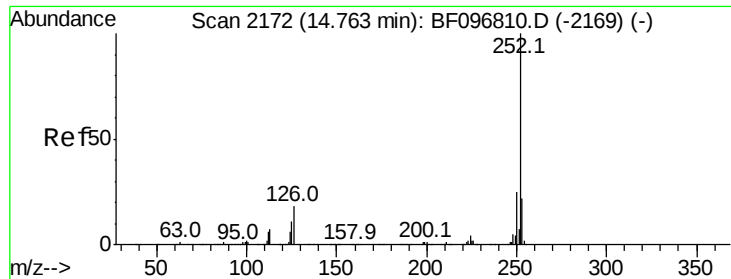
#87
Benzo(b)fluoranthene
Concen: 2.348 ng
RT: 14.73 min Scan# 2167
Delta R.T. -0.04 min
Lab File: BF096834.D
Acq: 17 Jul 2017 22:05

Tgt Ion:252 Resp: 23510
Ion Ratio Lower Upper
252 100
253 22.5 18.1 27.1
125 25.6 9.8 14.8#



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





#88

Benzo(k)fluoranthene

Concen: 2.479 ng

RT: 14.73 min Scan# 2167

Delta R.T. -0.06 min

Lab File: BF096834.D

Acq: 17 Jul 2017 22:05

Instrument :

BNA_F

ClientSampleId :

VITALE-TOPSOIL-1A

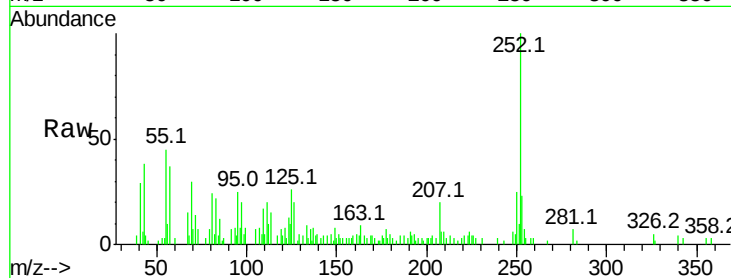
Tot Ion:252 Resp: 23510

Ion Ratio Lower Upper

252 100

253 22.5 18.4 27.6

125 25.6 13.1 19.7#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

