

Data Path : Z:\HPCHEM1\BNA F\DATA\BF082517\
 Data File : BF098048.D
 Acq On : 25 Aug 2017 23:35
 Operator : SJ/JU
 Sample : I4938-01
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 IRON-LEAF-TOPSOIL

Quant Time: Aug 26 00:29:28 2017
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Aug 21 15:59:04 2017
 Response via : Initial Calibration

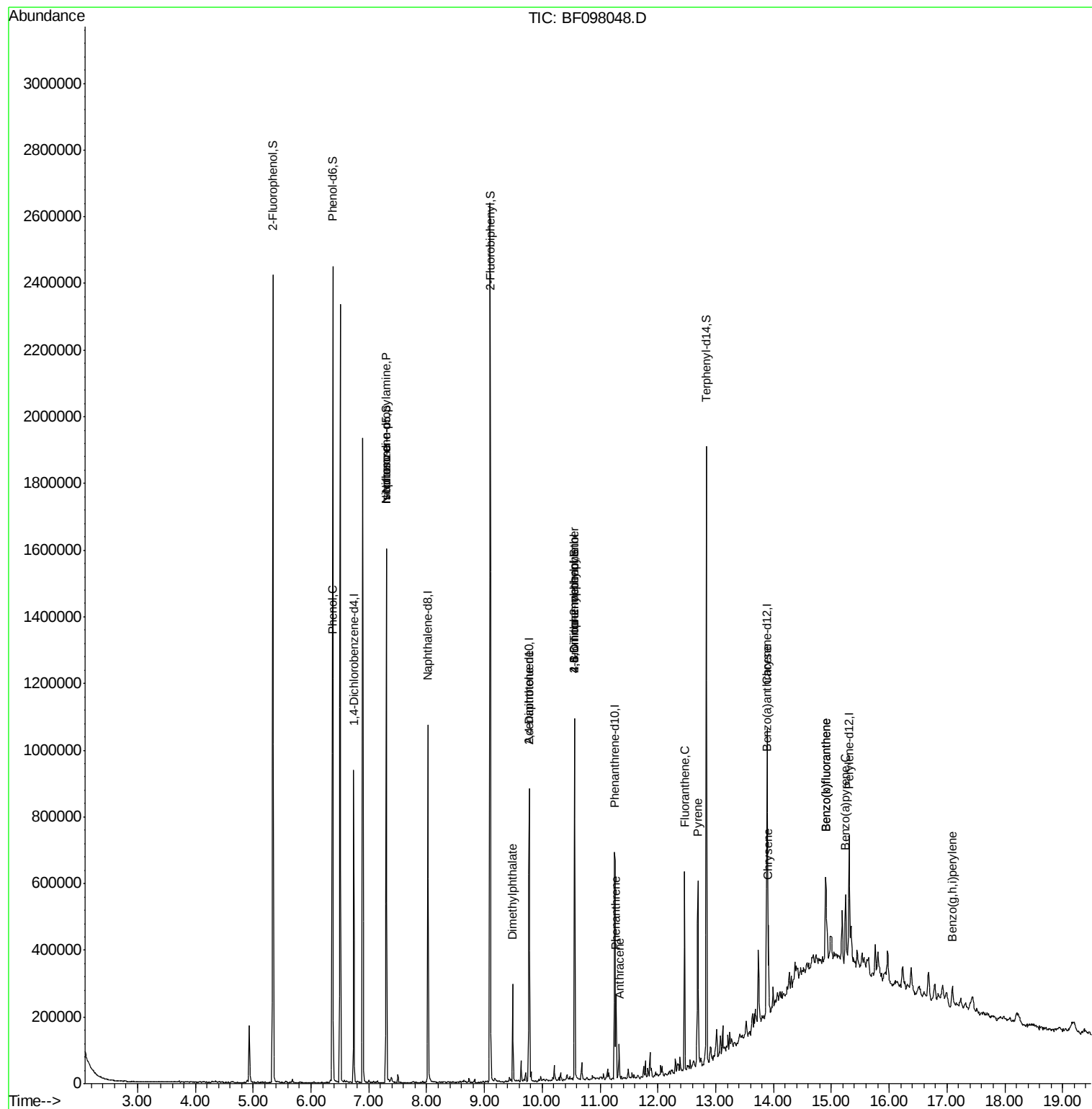
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.74	152	116046	20.00	ng	-0.01
21) Naphthalene-d8	8.02	136	422556	20.00	ng	-0.01
38) Acenaphthene-d10	9.77	164	152093	20.00	ng	-0.01
63) Phenanthrene-d10	11.25	188	248686	20.00	ng	-0.01
75) Chrysene-d12	13.89	240	248102	20.00	ng	-0.01
86) Perylene-d12	15.31	264	175213	20.00	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.35	112	683076	89.53	ng	0.00
7) Phenol-d6	6.37	99	913917	88.17	ng	-0.01
23) Nitrobenzene-d5	7.30	82	545178	70.09	ng	-0.02
41) 2,4,6-Tribromophenol	10.56	330	107041	81.11	ng	-0.02
44) 2-Fluorobiphenyl	9.10	172	753602	72.80	ng	-0.01
78) Terphenyl-d14	12.84	244	531249	44.65	ng	-0.01
Target Compounds						Qvalue
10) Phenol	6.39	94	26887	2.22	ng	93
19) n-Nitroso-di-n-propylamine	7.30	70	72639	10.24	ng	# 72
25) Isophorone	7.30	82	537803	33.25	ng	# 67
49) Dimethylphthalate	9.49	163	91714	8.25	ng	100
56) 2,4-Dinitrotoluene	9.77	165	19691	7.07	ng	# 34
64) 4,6-Dinitro-2-methylphenol	10.56	198	248	8.50	ng	# 1
66) 4-Bromophenyl-phenylether	10.56	248	7637	2.96	ng	# 1
70) Phenanthrene	11.27	178	86220	6.51	ng	97
71) Anthracene	11.33	178	36434	2.71	ng	98
74) Fluoranthene	12.46	202	211237	15.27	ng	98
77) Pyrene	12.69	202	213204	10.51	ng	97
80) Benzo(a)anthracene	13.87	228	114133	7.68	ng	95
82) Chrysene	13.91	228	106690	7.21	ng	97
87) Benzo(b)fluoranthene	14.90	252	180575	16.35	ng	97
88) Benzo(k)fluoranthene	14.90	252	180575	17.40	ng	96
89) Benzo(a)pyrene	15.24	252	95466	9.76	ng	97
91) Benzo(a,h,i)perylene	17.09	276	52750	6.35	ng	93

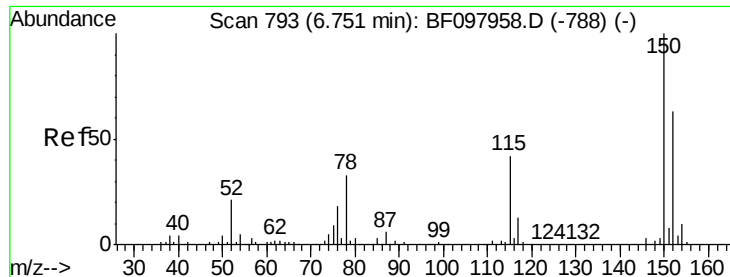
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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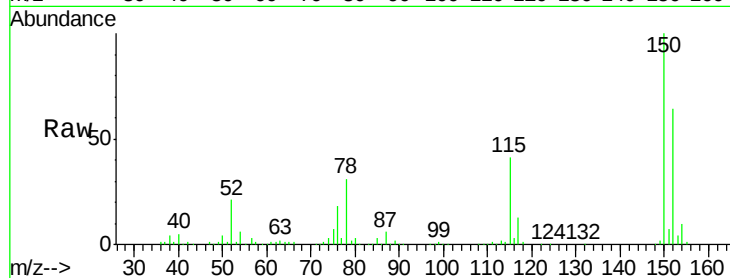


#1

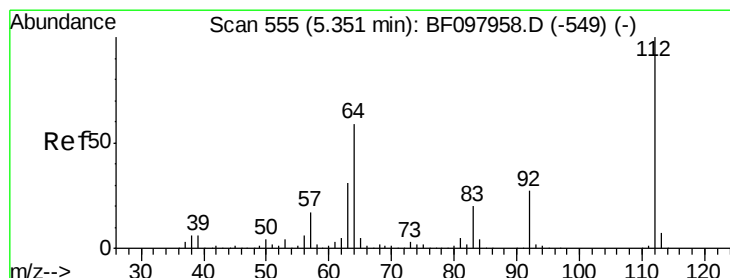
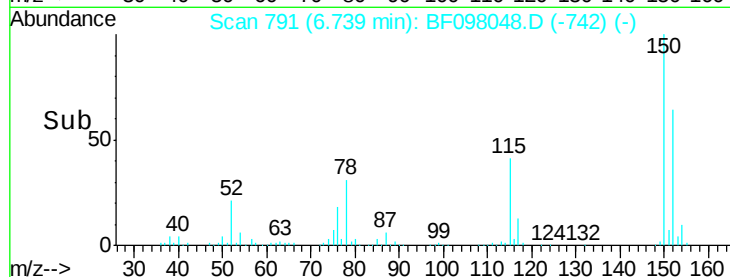
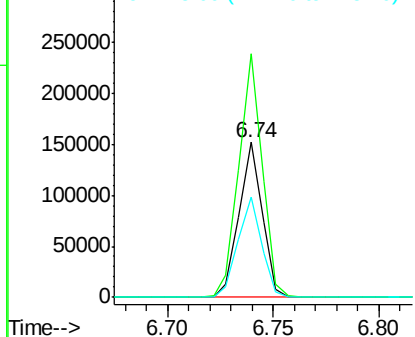
1,4-Dichlorobenzene-d4
 Concen: 20.00 ng
 RT: 6.74 min Scan# 791
 Delta R.T. -0.01 min
 Lab File: BF098048.D
 Acq: 25 Aug 2017 23:35

Instrument :
 BNA_F
 ClientSampleId :
 IRON-LEAF-TOPSOIL

Tot Ion:152 Resp: 116046
 Ion Ratio Lower Upper
 152 100
 150 157.2 126.2 189.2
 115 64.8 52.2 78.2



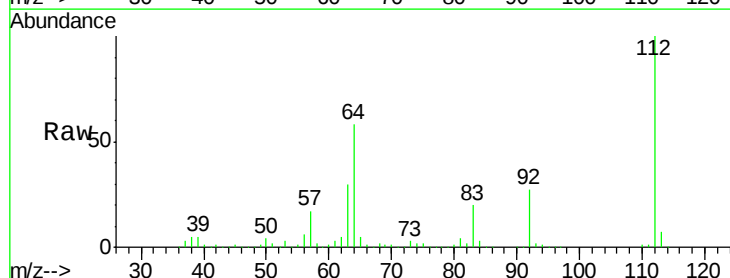
Abundance Ion 152.00 (151.70 to 152.70): E
 Ion 150.00 (149.70 to 150.70): E
 Ion 115.00 (114.70 to 115.70): E



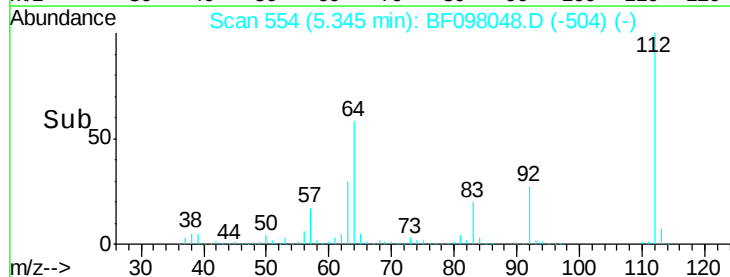
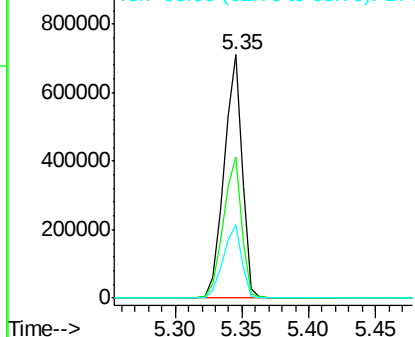
#5

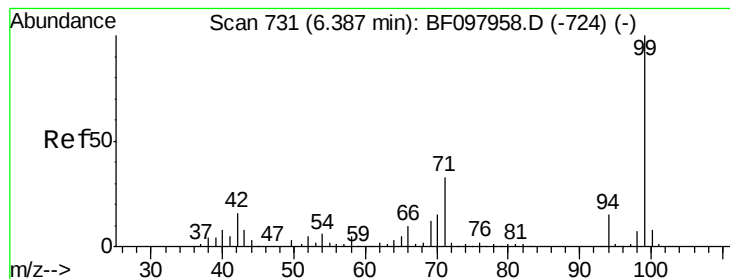
2-Fluorophenol
 Concen: 89.53 ng
 RT: 5.35 min Scan# 554
 Delta R.T. -0.01 min
 Lab File: BF098048.D
 Acq: 25 Aug 2017 23:35

Tgt Ion:112 Resp: 683076
 Ion Ratio Lower Upper
 112 100
 64 57.9 46.0 69.0
 63 30.0 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: 88.17 ng

RT: 6.37 min Scan# 729

Delta R.T. -0.01 min

Lab File: BF098048.D

Acq: 25 Aug 2017 23:35

Instrument :

BNA_F

ClientSampleId :

IRON-LEAF-TOPSOIL

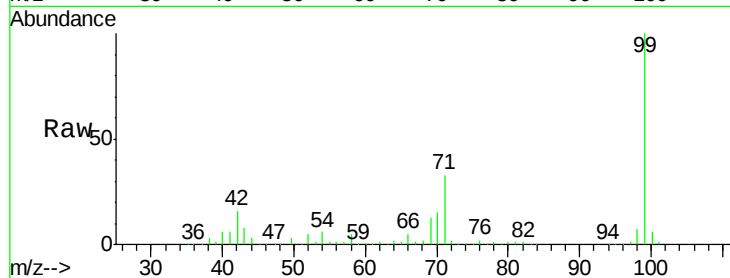
Tot Ion: 99 Resp: 913917

Ion Ratio Lower Upper

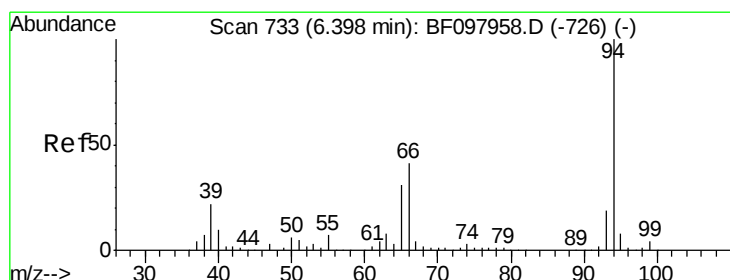
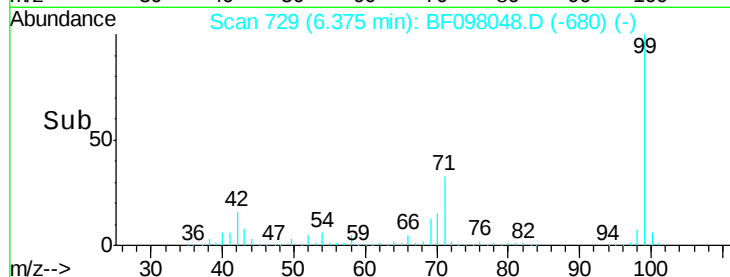
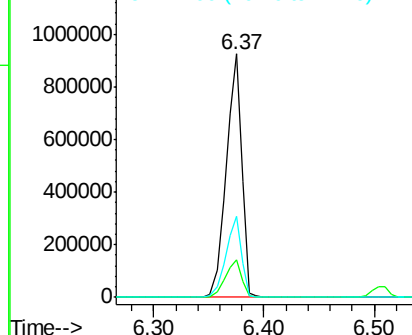
99 100

42 15.6 13.5 20.3

71 33.2 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



#10

Phenol

Concen: 2.22 ng

RT: 6.39 min Scan# 731

Delta R.T. -0.01 min

Lab File: BF098048.D

Acq: 25 Aug 2017 23:35

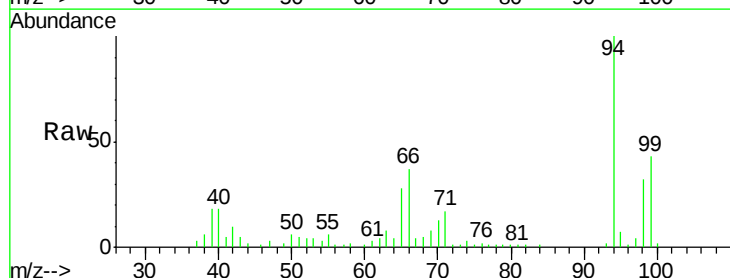
Tgt Ion: 94 Resp: 26887

Ion Ratio Lower Upper

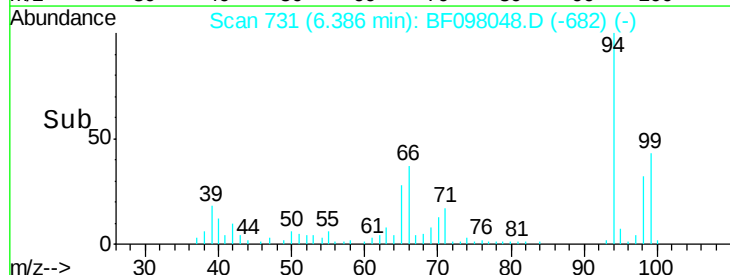
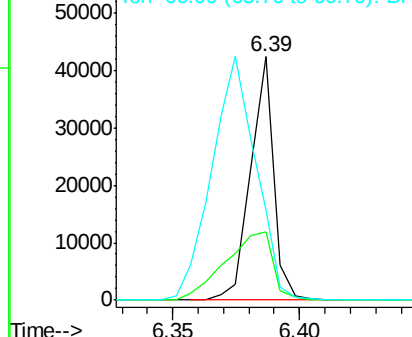
94 100

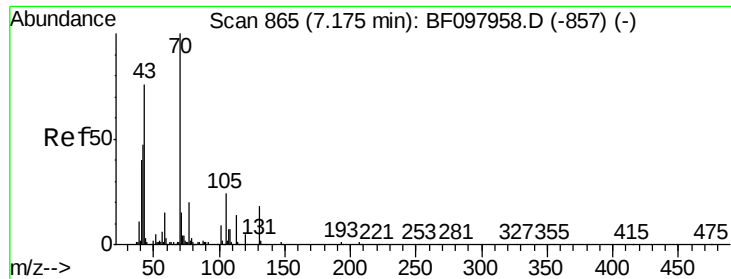
65 27.9 9.9 49.9

66 37.0 23.1 63.1



Abundance Ion 94.00 (93.70 to 94.70): BF0
Ion 65.00 (64.70 to 65.70): BF0
Ion 66.00 (65.70 to 66.70): BF0

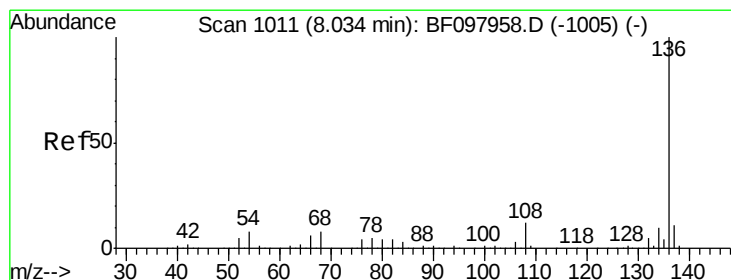
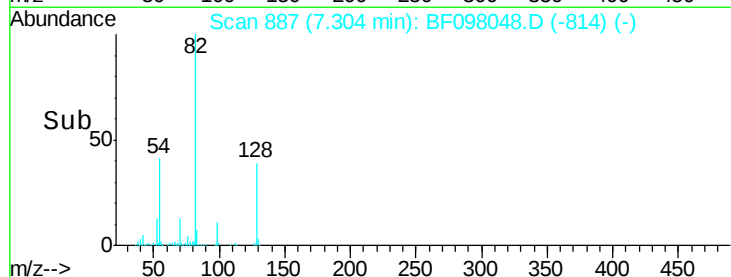
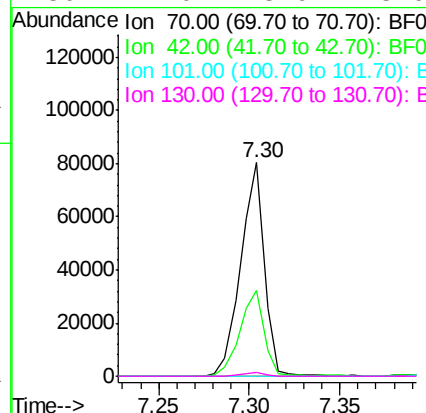
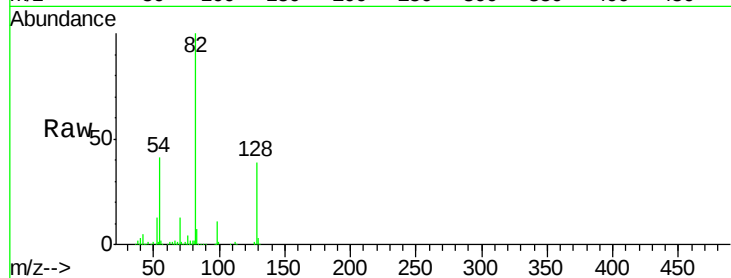




#19
n-Nitroso-di-n-propylamine
Concen: 10.24 ng
RT: 7.30 min Scan# 887
Delta R.T. 0.13 min
Lab File: BF098048.D
Acq: 25 Aug 2017 23:35

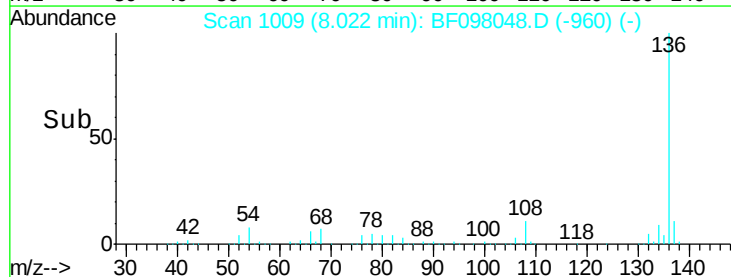
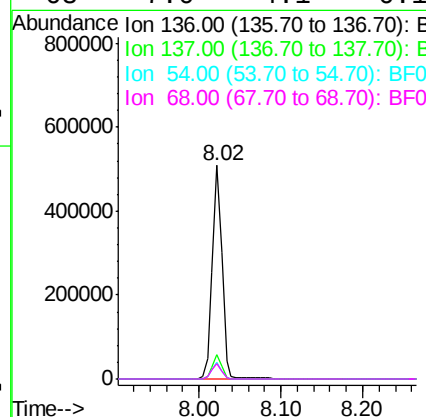
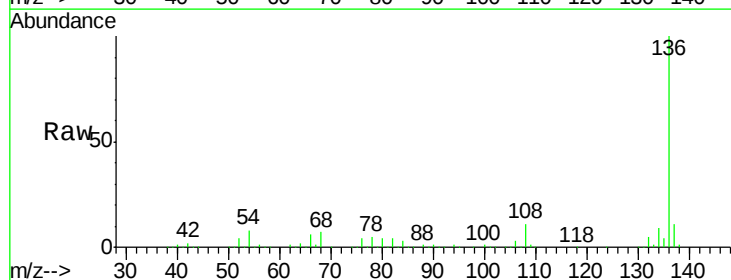
Instrument :
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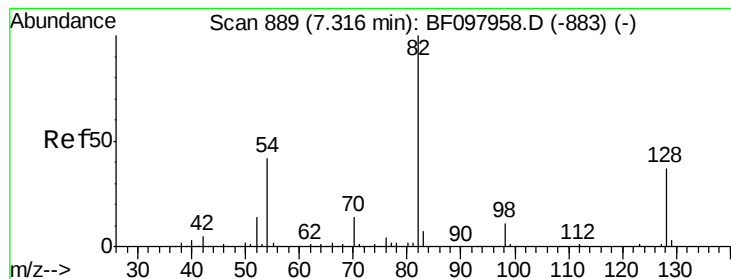
Tot Ion: 70 Resp: 72639
Ion Ratio Lower Upper
70 100
42 40.0 47.2 70.8#
101 0.0 7.2 10.8#
130 2.0 15.9 23.9#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 8.02 min Scan# 1009
Delta R.T. -0.01 min
Lab File: BF098048.D
Acq: 25 Aug 2017 23:35

Tgt Ion: 136 Resp: 422556
Ion Ratio Lower Upper
136 100
137 11.5 8.5 12.7
54 7.8 4.9 7.3#
68 7.0 4.1 6.1#





#23

Nitrobenzene-d5

Concen: 70.09 ng

RT: 7.30 min Scan# 887

Delta R.T. -0.02 min

Lab File: BF098048.D

Acq: 25 Aug 2017 23:35

Instrument :

BNA_F

ClientSampleId :

IRON-LEAF-TOPSOIL

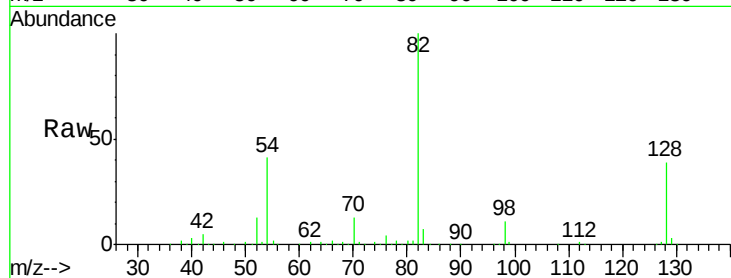
Tot Ion: 82 Resp: 545178

Ion Ratio Lower Upper

82 100

128 38.5 34.0 51.0

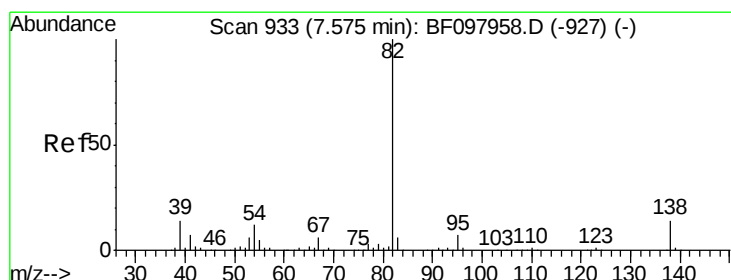
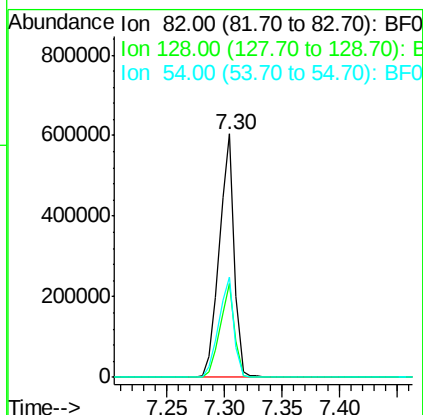
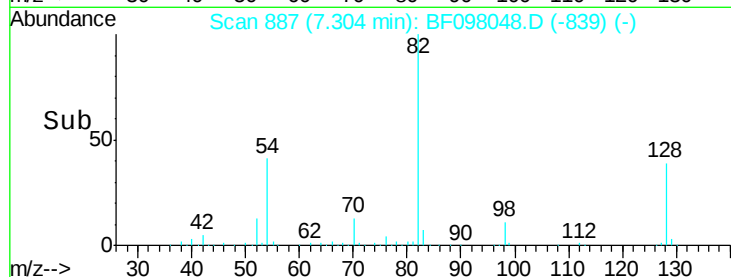
54 41.4 42.2 63.2#



Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 128.00 (127.70 to 128.70): BF0

Ion 54.00 (53.70 to 54.70): BF0



#25

Isophorone

Concen: 33.25 ng

RT: 7.30 min Scan# 887

Delta R.T. -0.28 min

Lab File: BF098048.D

Acq: 25 Aug 2017 23:35

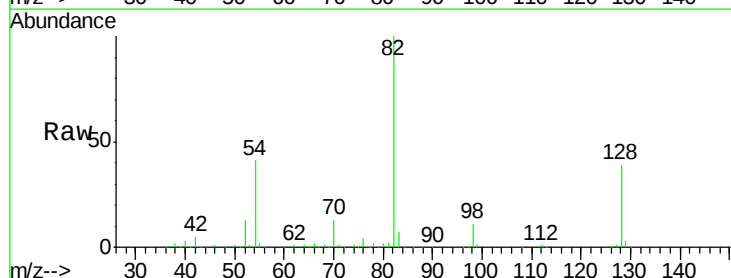
Tgt Ion: 82 Resp: 537803

Ion Ratio Lower Upper

82 100

95 0.0 5.3 7.9#

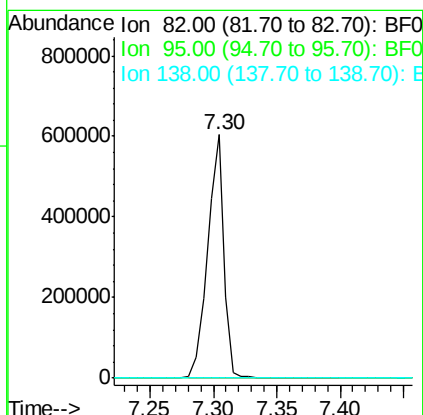
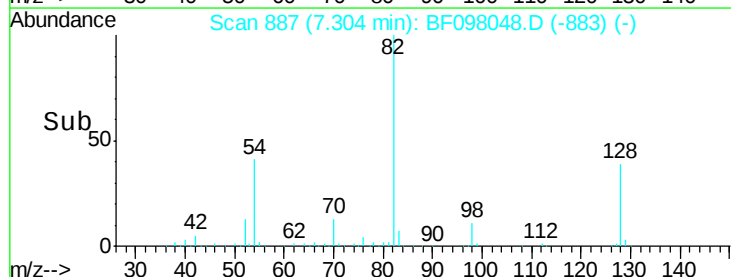
138 0.0 13.1 19.7#

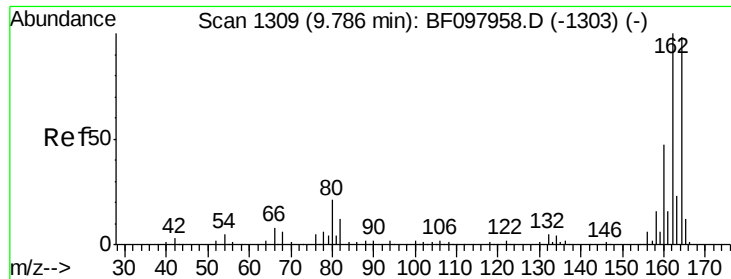


Abundance Ion 82.00 (81.70 to 82.70): BF0

Ion 95.00 (94.70 to 95.70): BF0

Ion 138.00 (137.70 to 138.70): BF0





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.77 min Scan# 1307

Delta R.T. -0.01 min

Lab File: BF098048.D

Acq: 25 Aug 2017 23:35

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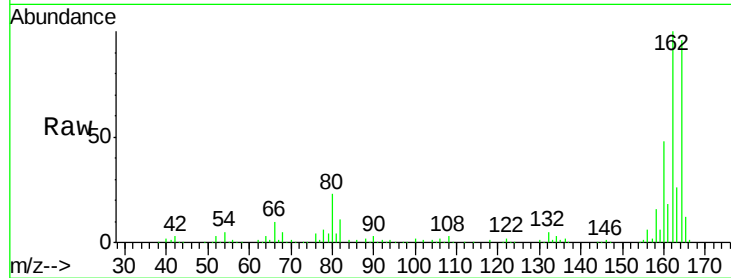
Tot Ion:164 Resp: 152093

Ion Ratio Lower Upper

164 100

162 104.4 82.6 123.8

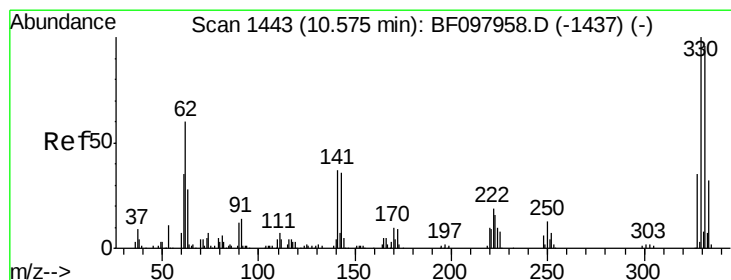
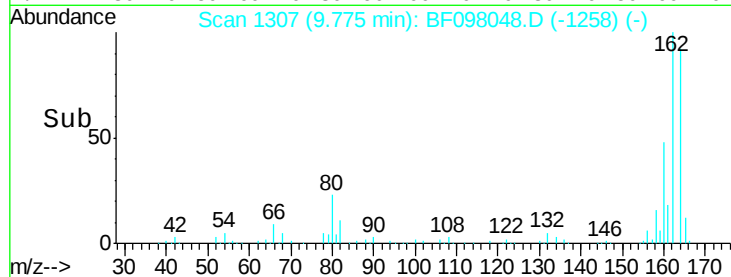
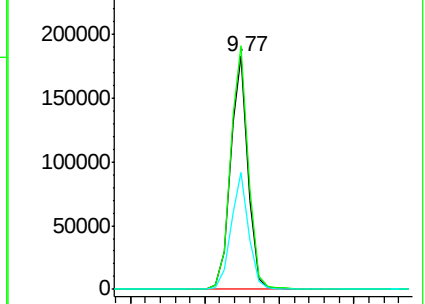
160 50.3 36.2 54.2



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: 81.11 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.02 min

Lab File: BF098048.D

Acq: 25 Aug 2017 23:35

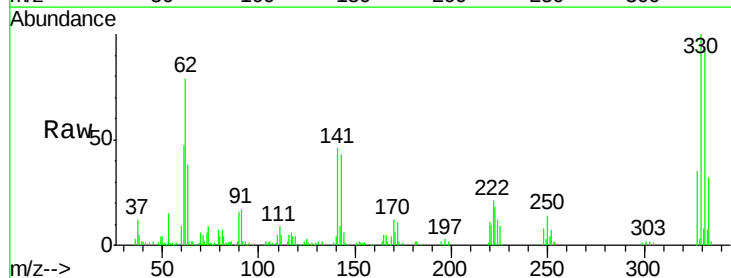
Tgt Ion:330 Resp: 107041

Ion Ratio Lower Upper

330 100

332 95.9 76.6 115.0

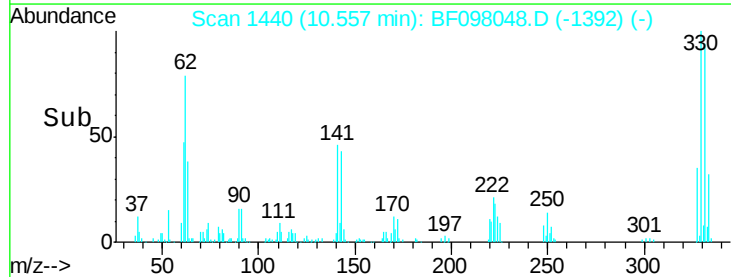
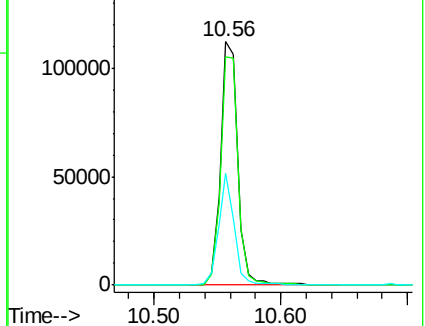
141 42.1 31.4 47.2

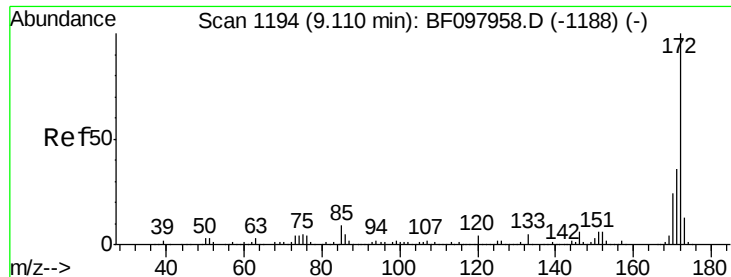


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

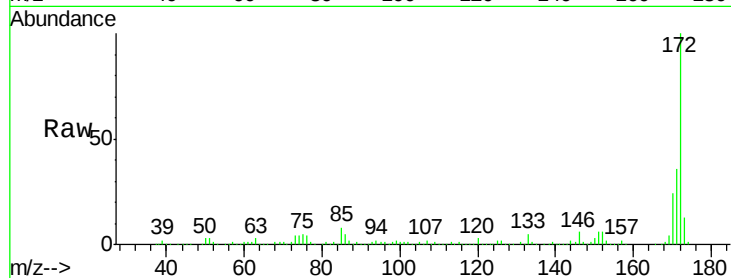




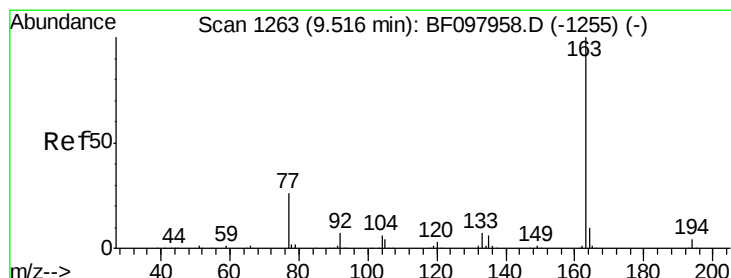
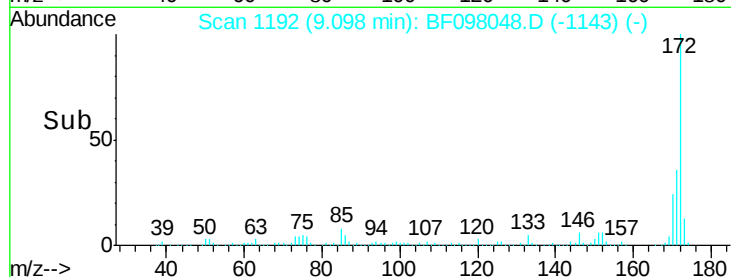
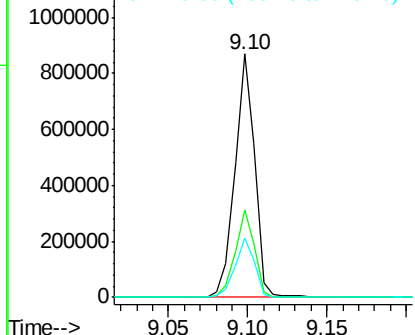
#44
2-Fluorobiphenyl
Concen: 72.80 ng
RT: 9.10 min Scan# 1192
Delta R.T. -0.01 min
Lab File: BF098048.D
Acq: 25 Aug 2017 23:35

Instrument :
BNA_F
ClientSampleId :
IRON-LEAF-TOPSOIL

Tot Ion:172 Resp: 753602
Ion Ratio Lower Upper
172 100
171 35.9 29.6 44.4
170 24.4 19.8 29.8

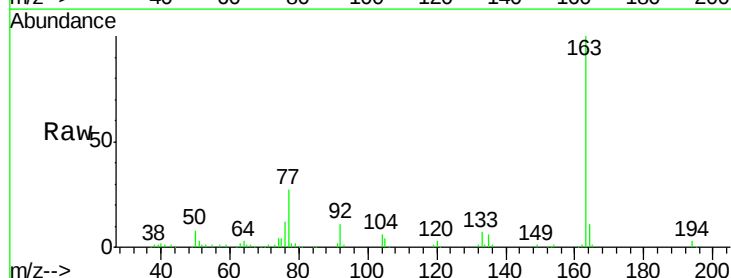


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

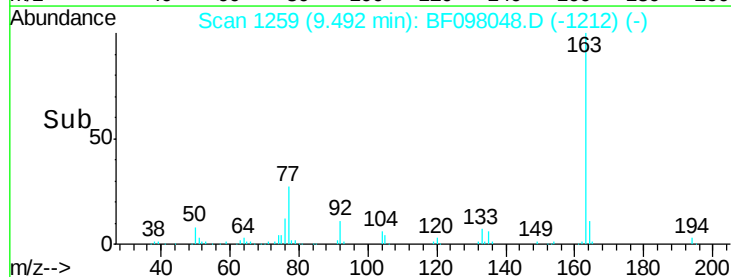
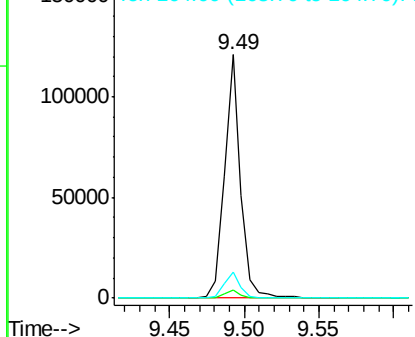


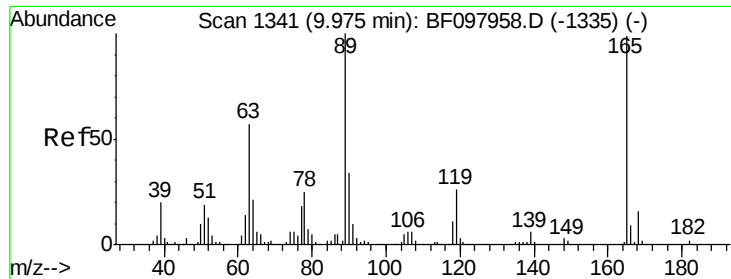
#49
Dimethylphthalate
Concen: 8.25 ng
RT: 9.49 min Scan# 1259
Delta R.T. -0.02 min
Lab File: BF098048.D
Acq: 25 Aug 2017 23:35

Tgt Ion:163 Resp: 91714
Ion Ratio Lower Upper
163 100
194 3.1 2.6 4.0
164 10.6 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

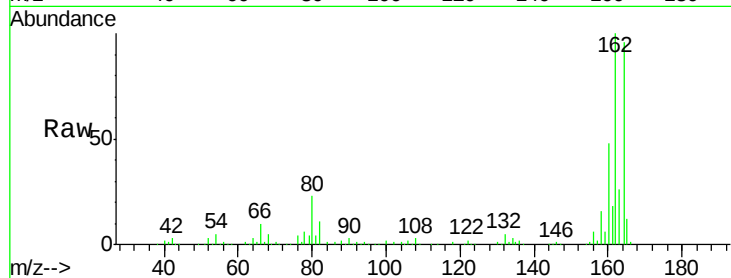




#56
 2,4-Dinitrotoluene
 Concen: 7.07 ng
 RT: 9.77 min Scan# 1307
 Delta R.T. -0.20 min
 Lab File: BF098048.D
 Acq: 25 Aug 2017 23:35

Instrument :
 BNA_F
 ClientSampleId :
 IRON-LEAF-TOPSOIL

Tot Ion	Ratio	Lower	Upper
165	100		
63	1.7	25.4	38.0#
89	2.0	46.4	69.6#
182	0.0	1.8	2.6#

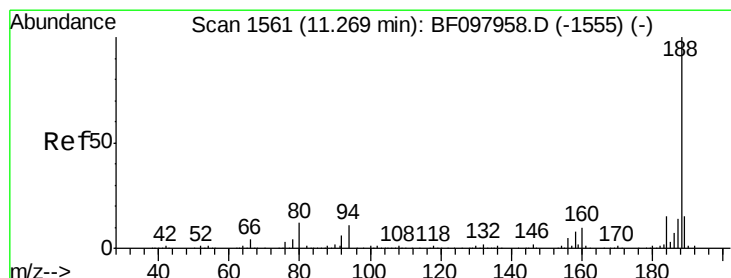
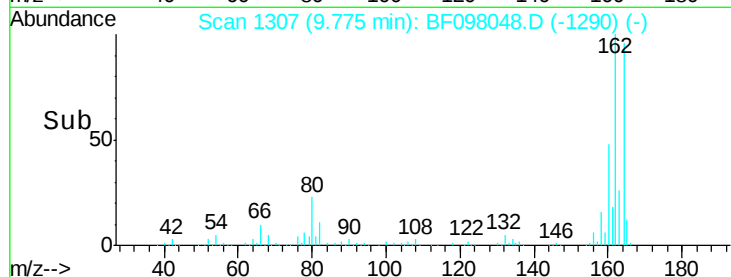
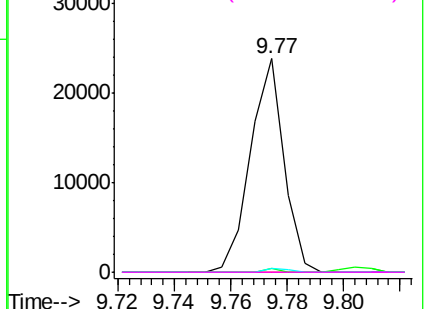


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF0

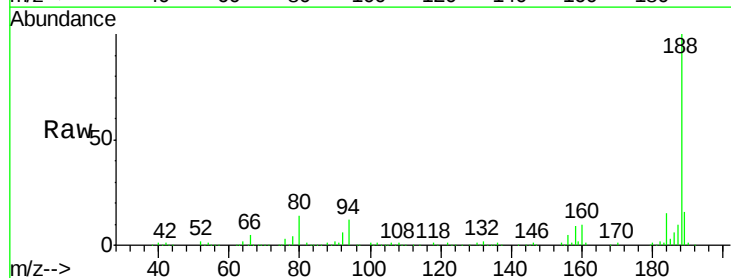
Ion 89.00 (88.70 to 89.70): BF0

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.00 ng
 RT: 11.25 min Scan# 1558
 Delta R.T. -0.01 min
 Lab File: BF098048.D
 Acq: 25 Aug 2017 23:35

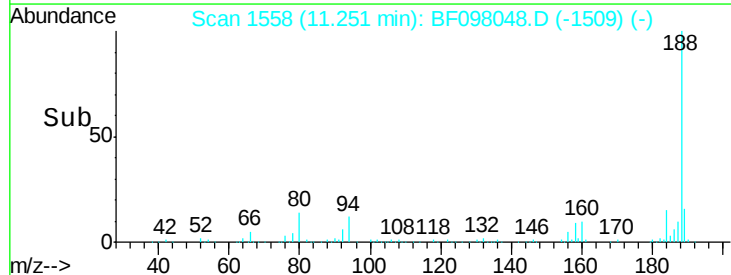
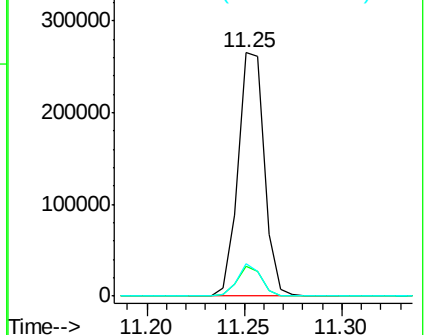
Tgt Ion	Ratio	Lower	Upper
188	100		
94	12.5	9.4	14.2
80	13.5	10.2	15.2

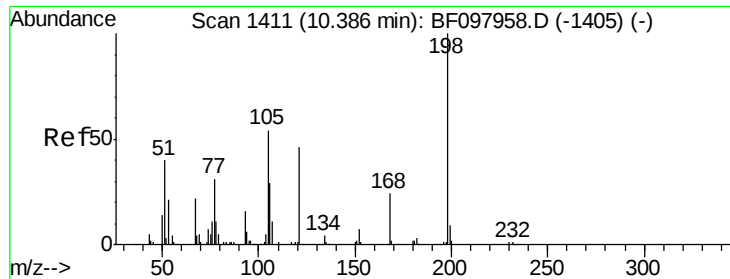


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF0

Ion 80.00 (79.70 to 80.70): BF0





#64

4,6-Dinitro-2-methylphenol

Concen: 8.50 ng

RT: 10.56 min Scan# 1440

Delta R.T. 0.18 min

Lab File: BF098048.D

Acq: 25 Aug 2017 23:35

Instrument :

BNA_F

ClientSampleId :

IRON-LEAF-TOPSOIL

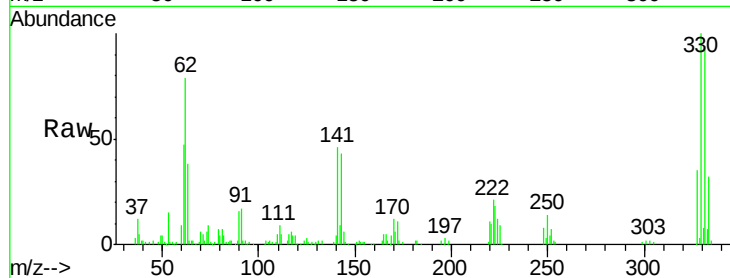
Tot Ion:198 Resp: 248

Ion Ratio Lower Upper

198 100

51 161.9 53.2 93.2#

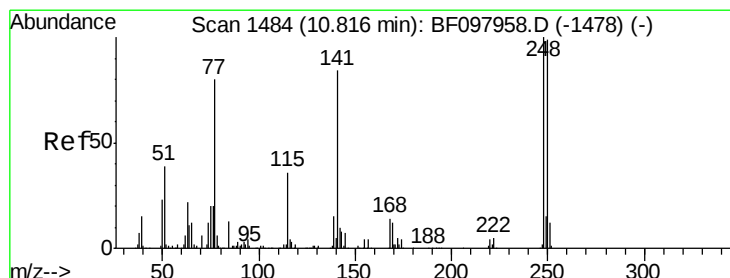
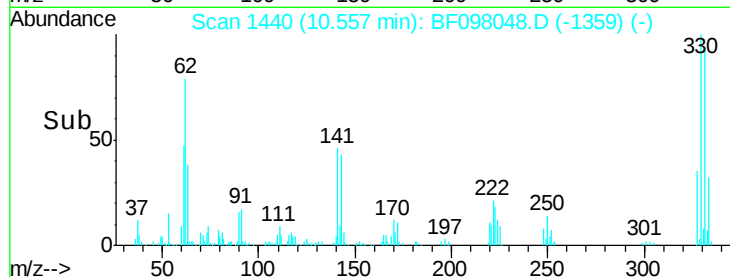
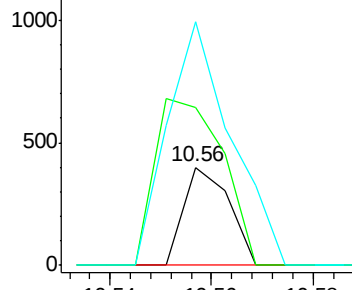
105 248.9 45.8 85.8#



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



#66

4-Bromophenyl-phenylether

Concen: 2.96 ng

RT: 10.56 min Scan# 1440

Delta R.T. -0.26 min

Lab File: BF098048.D

Acq: 25 Aug 2017 23:35

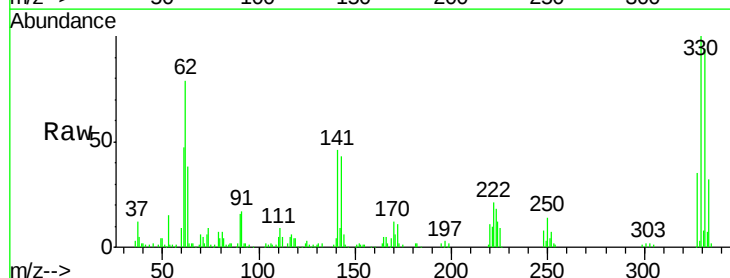
Tgt Ion:248 Resp: 7637

Ion Ratio Lower Upper

248 100

250 178.5 76.8 115.2#

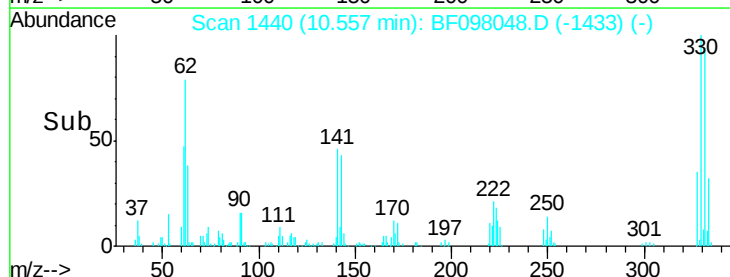
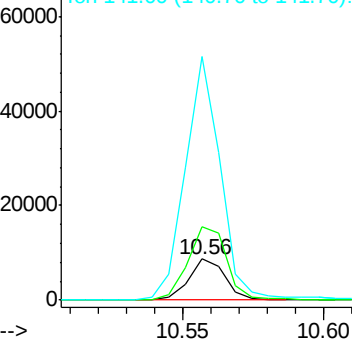
141 590.6 68.6 103.0#

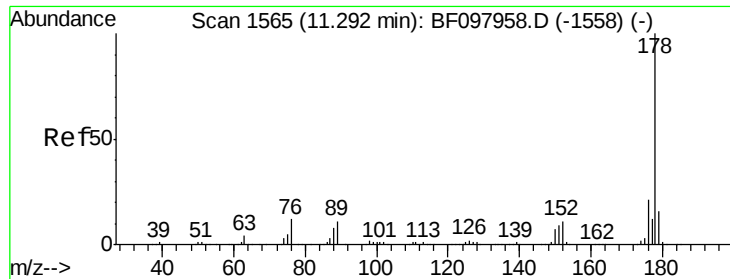


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

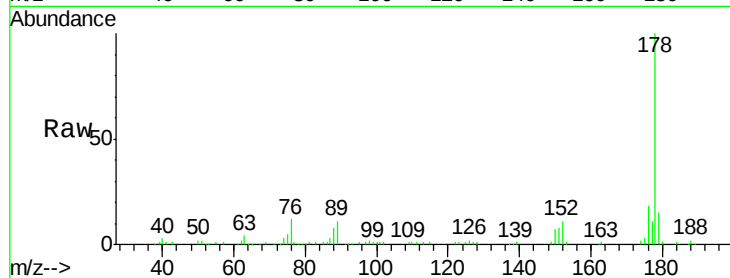




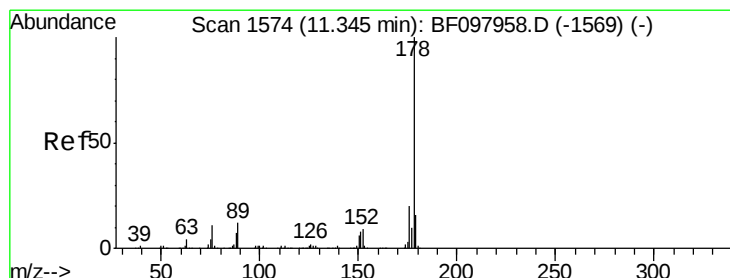
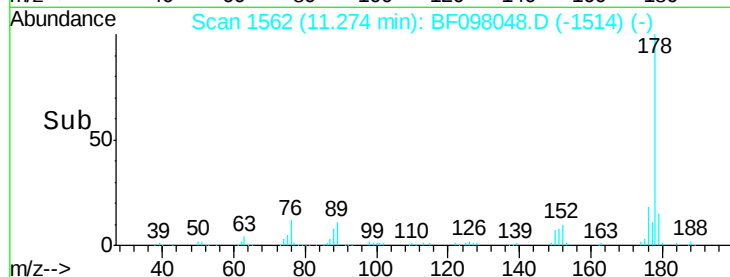
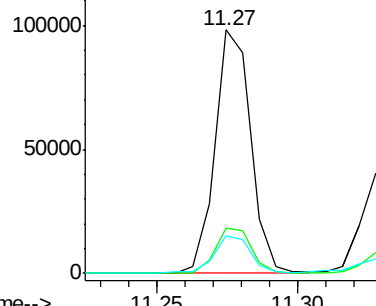
#70
Phenanthrene
Concen: 6.51 ng
RT: 11.27 min Scan# 1562
Delta R.T. -0.02 min
Lab File: BF098048.D
Acq: 25 Aug 2017 23:35

Instrument :
BNA_F
ClientSampleId :
IRON-LEAF-TOPSOIL

Tot Ion:178 Resp: 86220
Ion Ratio Lower Upper
178 100
176 18.5 16.2 24.4
179 15.4 12.6 19.0

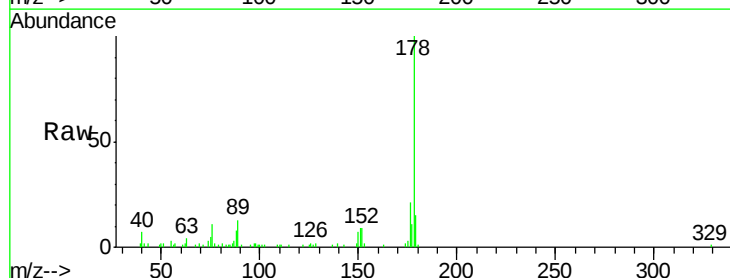


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

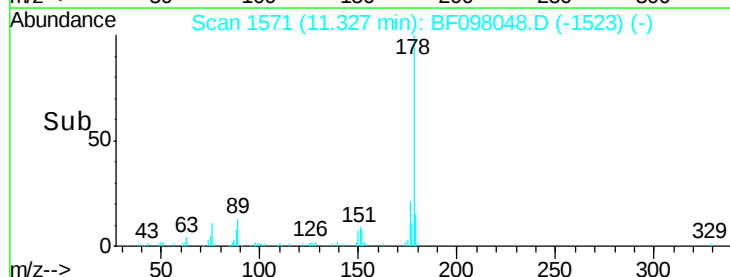
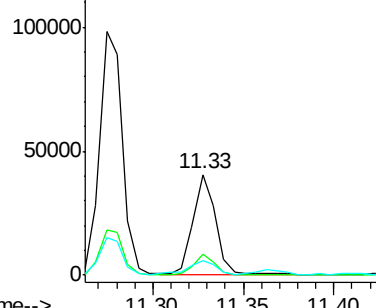


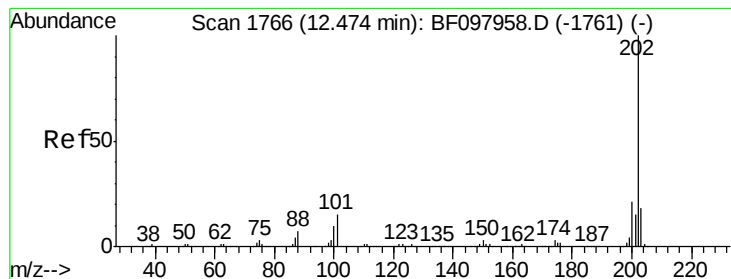
#71
Anthracene
Concen: 2.71 ng
RT: 11.33 min Scan# 1571
Delta R.T. -0.02 min
Lab File: BF098048.D
Acq: 25 Aug 2017 23:35

Tgt Ion:178 Resp: 36434
Ion Ratio Lower Upper
178 100
176 20.9 15.8 23.8
179 15.0 12.7 19.1



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: 15.27 ng

RT: 12.46 min Scan# 1764

Delta R.T. -0.01 min

Lab File: BF098048.D

Acq: 25 Aug 2017 23:35

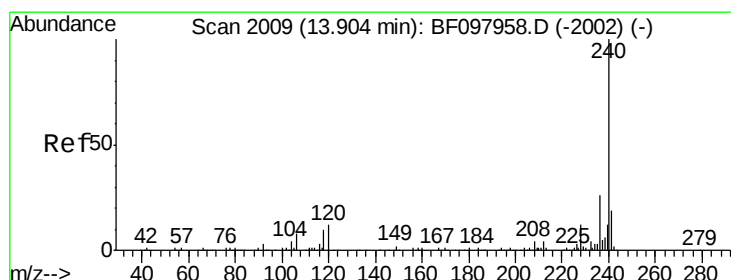
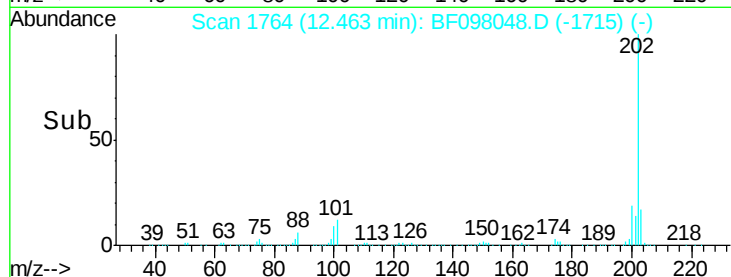
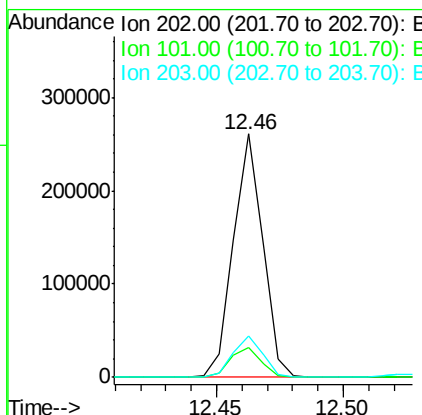
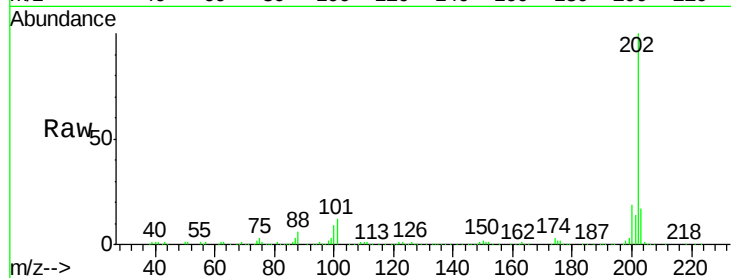
Instrument :

BNA_F

ClientSampleId :

IRON-LEAF-TOPSOIL

Tot Ion:	202	Resp:	211237
Ion	Ratio	Lower	Upper
202	100		
101	12.2	0.0	33.2
203	17.0	0.0	38.1



#75

Chrysene-d12

Concen: 20.00 ng

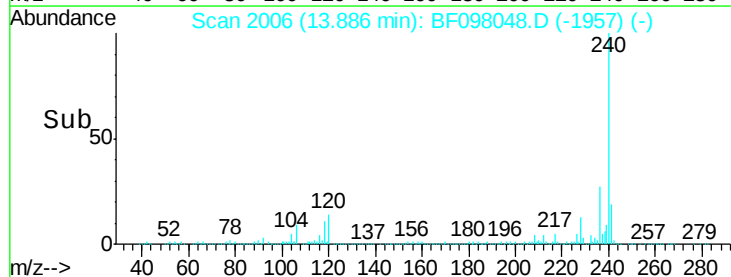
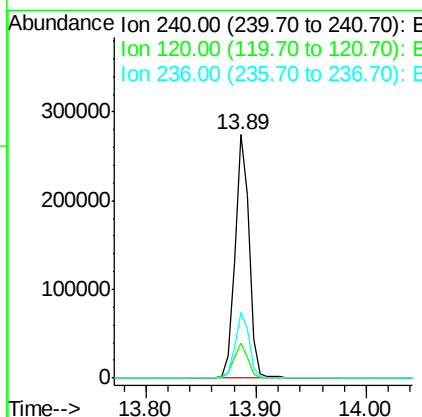
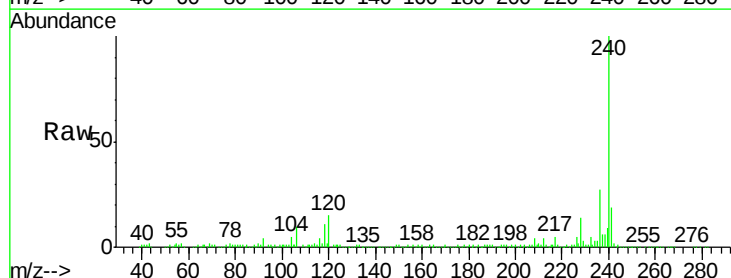
RT: 13.89 min Scan# 2006

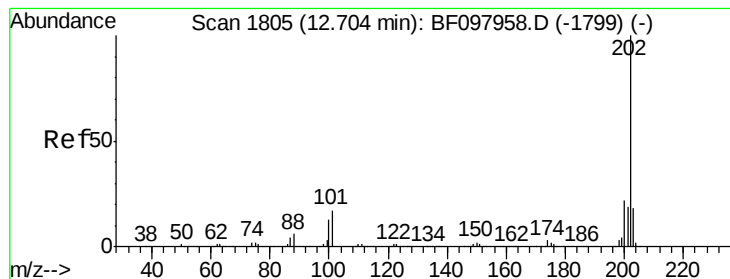
Delta R.T. -0.01 min

Lab File: BF098048.D

Acq: 25 Aug 2017 23:35

Tgt Ion:	240	Resp:	248102
Ion	Ratio	Lower	Upper
240	100		
120	14.5	5.8	8.8#
236	26.9	20.5	30.7





#77

Pvrene

Concen: 10.51 ng

RT: 12.69 min Scan# 1803

Delta R.T. -0.01 min

Lab File: BF098048.D

Acq: 25 Aug 2017 23:35

Instrument :

BNA_F

ClientSampleId :

IRON-LEAF-TOPSOIL

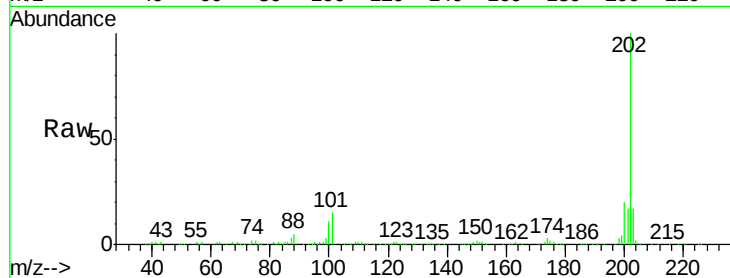
Tot Ion:202 Resp: 213204

Ion Ratio Lower Upper

202 100

200 20.3 17.6 26.4

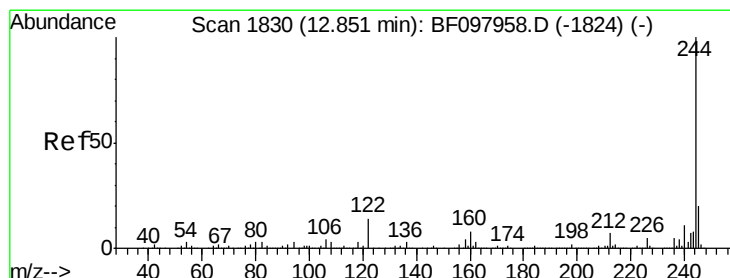
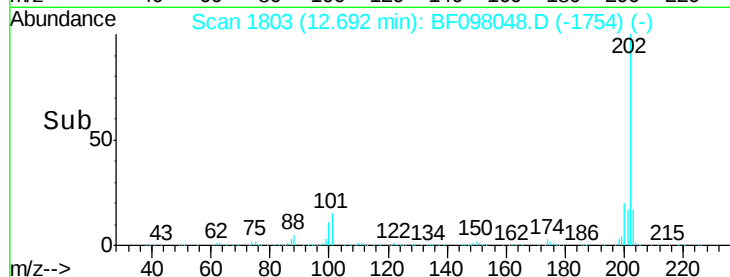
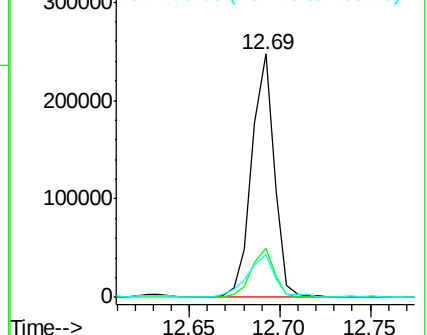
203 17.3 14.4 21.6



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 44.65 ng

RT: 12.84 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BF098048.D

Acq: 25 Aug 2017 23:35

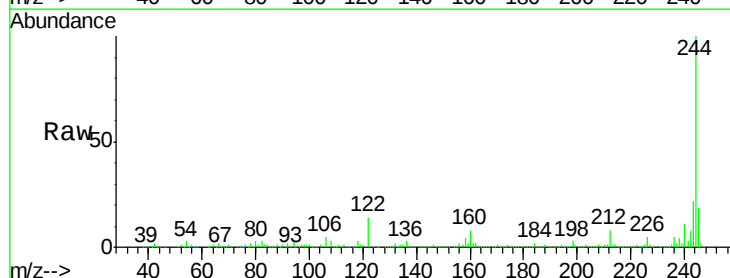
Tgt Ion:244 Resp: 531249

Ion Ratio Lower Upper

244 100

212 7.6 6.0 9.0

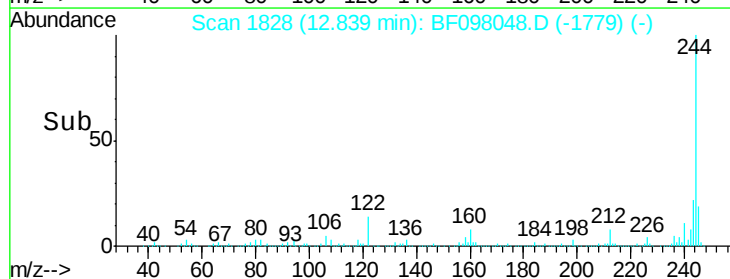
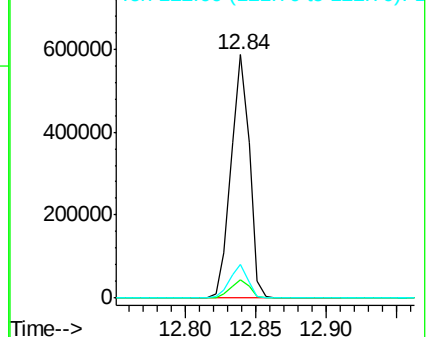
122 13.9 10.3 15.5

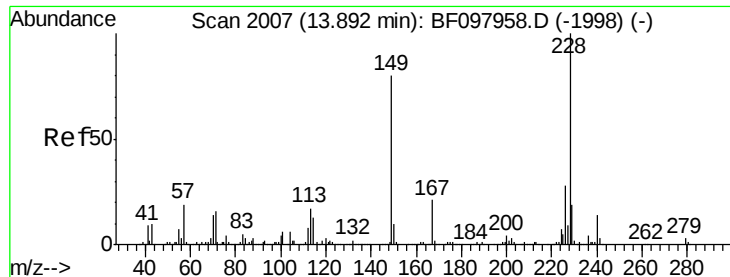


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

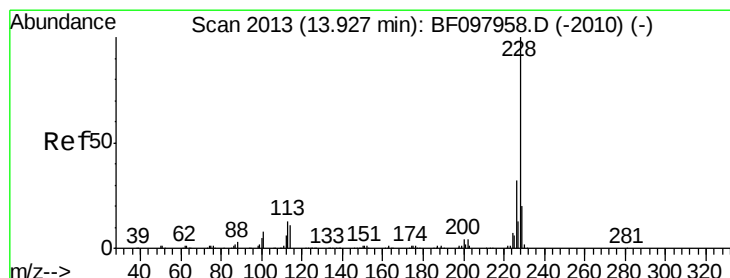
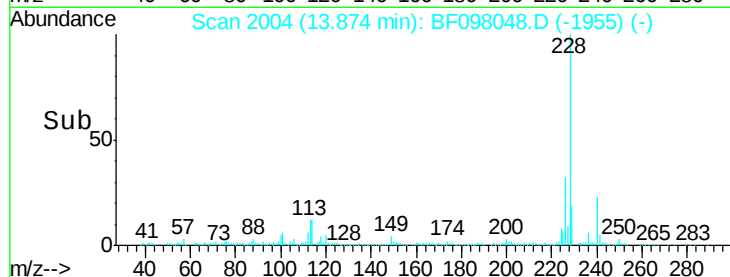
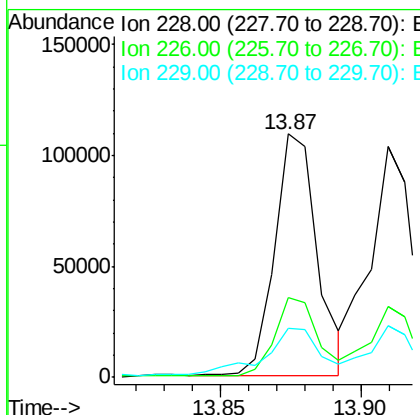
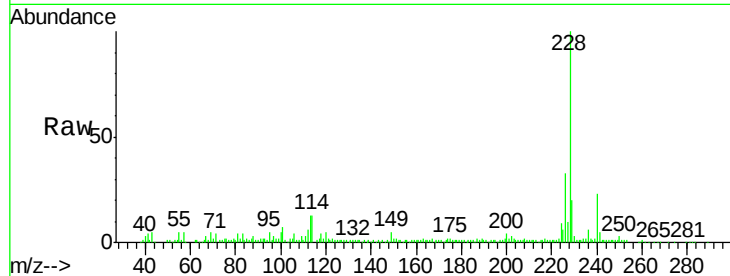




#80
Benzo(a)anthracene
Concen: 7.68 ng
RT: 13.87 min Scan# 2004
Delta R.T. -0.01 min
Lab File: BF098048.D
Acq: 25 Aug 2017 23:35

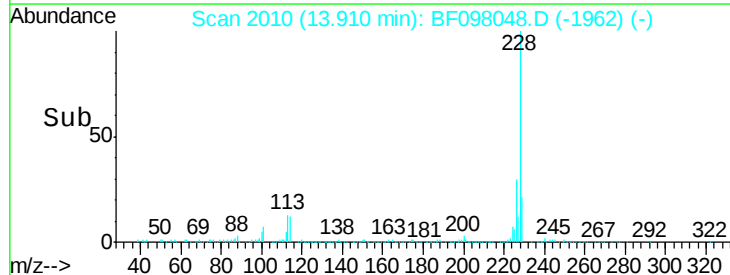
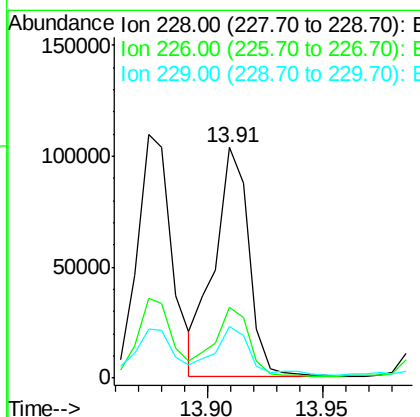
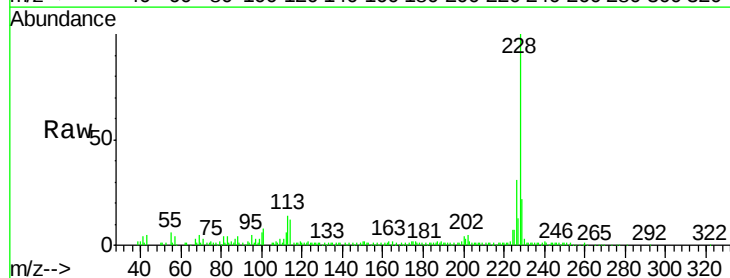
Instrument :
BNA_F
ClientSampleId :
IRON-LEAF-TOPSOIL

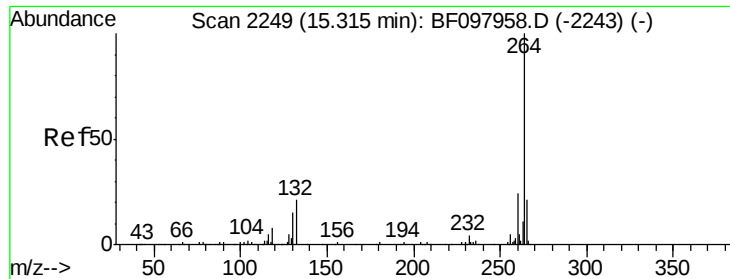
Tot Ion:228 Resp: 114133
Ion Ratio Lower Upper
228 100
226 33.0 22.6 33.8
229 20.4 16.3 24.5



#82
Chrysene
Concen: 7.21 ng
RT: 13.91 min Scan# 2010
Delta R.T. -0.02 min
Lab File: BF098048.D
Acq: 25 Aug 2017 23:35

Tgt Ion:228 Resp: 106690
Ion Ratio Lower Upper
228 100
226 30.7 24.9 37.3
229 22.2 15.8 23.6

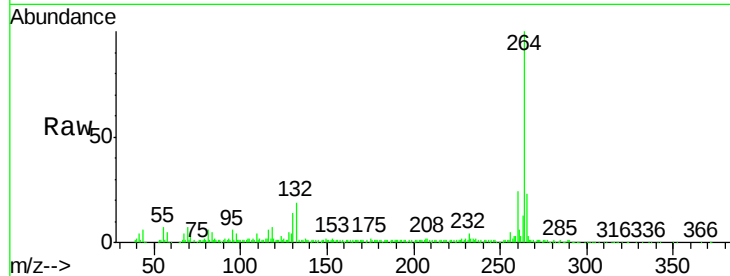




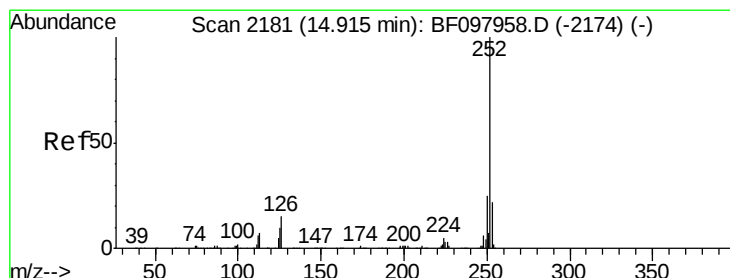
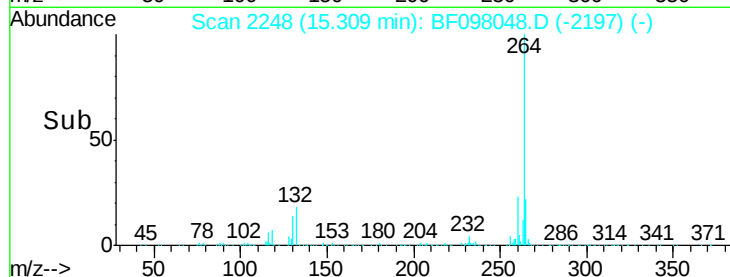
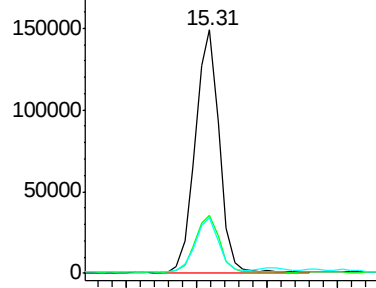
#86
Pervlene-d12
Concen: 20.00 ng
RT: 15.31 min Scan# 2248
Delta R.T. -0.00 min
Lab File: BF098048.D
Acq: 25 Aug 2017 23:35

Instrument :
BNA_F
ClientSampleId :
IRON-LEAF-TOPSOIL

Tot Ion:264 Resp: 175213
Ion Ratio Lower Upper
264 100
260 24.0 19.5 29.3
265 22.8 17.2 25.8

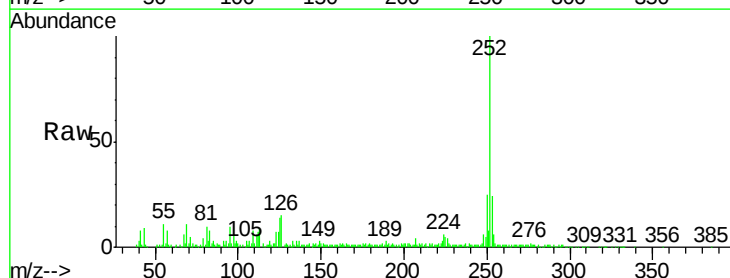


Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

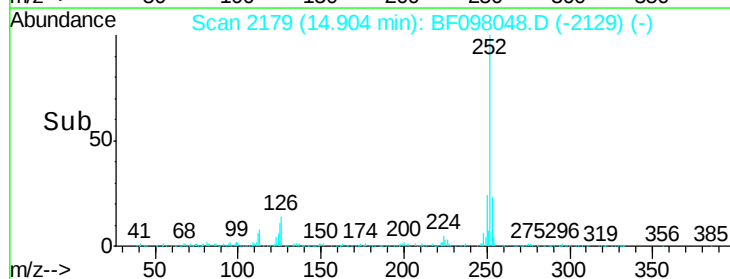
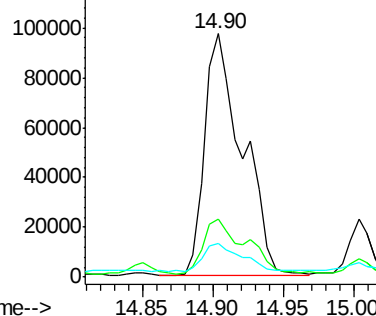


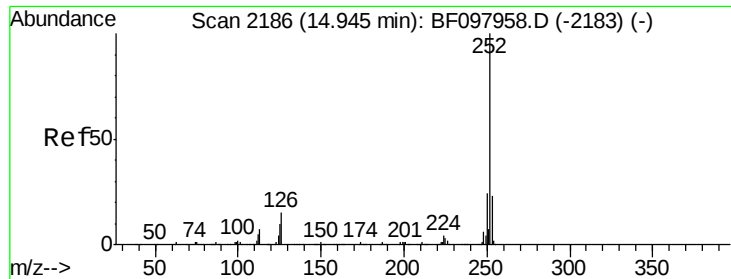
#87
Benzo(b)fluoranthene
Concen: 16.35 ng
RT: 14.90 min Scan# 2179
Delta R.T. -0.01 min
Lab File: BF098048.D
Acq: 25 Aug 2017 23:35

Tgt Ion:252 Resp: 180575
Ion Ratio Lower Upper
252 100
253 23.9 18.1 27.1
125 13.6 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

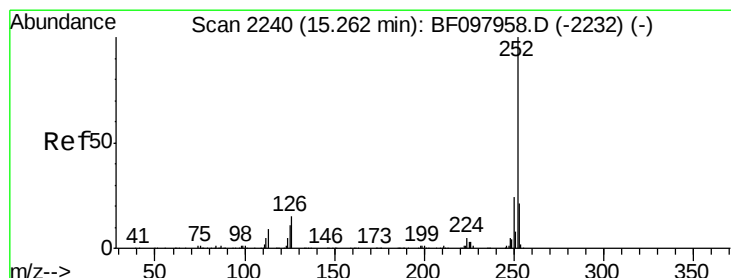
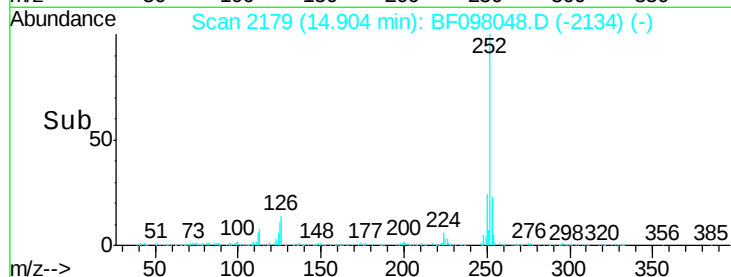
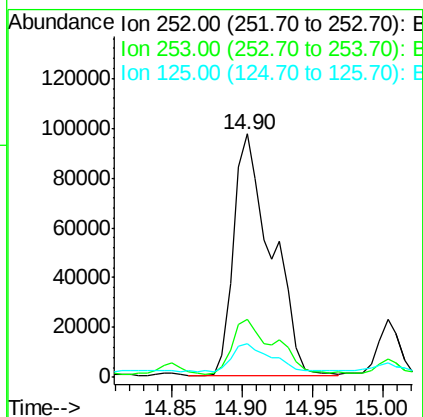
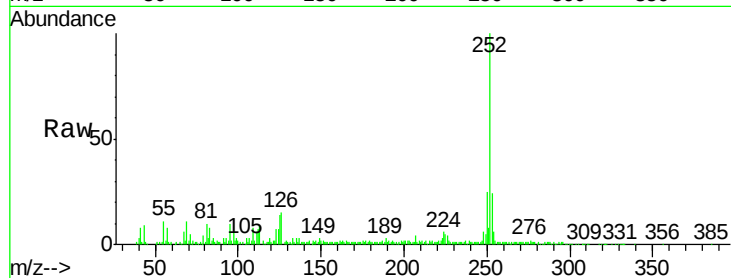




#88
Benzo(k)fluoranthene
Concen: 17.40 ng
RT: 14.90 min Scan# 2179
Delta R.T. -0.04 min
Lab File: BF098048.D
Acq: 25 Aug 2017 23:35

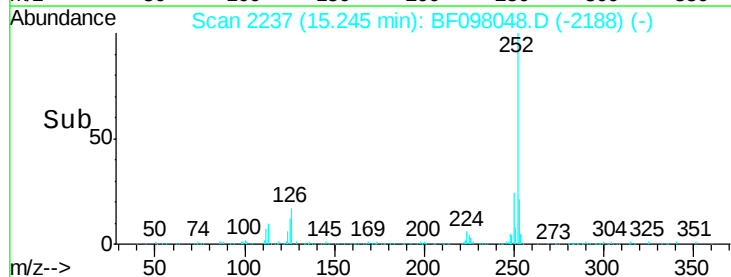
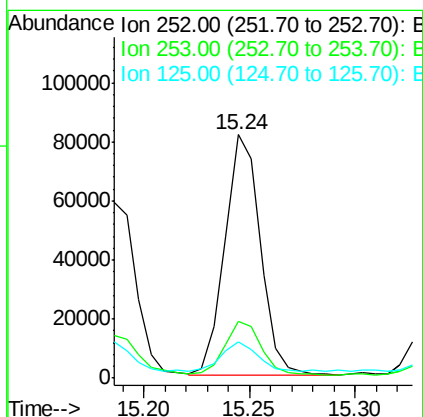
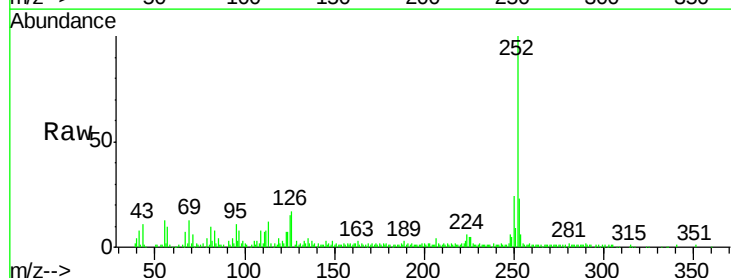
Instrument :
BNA_F
ClientSampleId :
IRON-LEAF-TOPSOIL

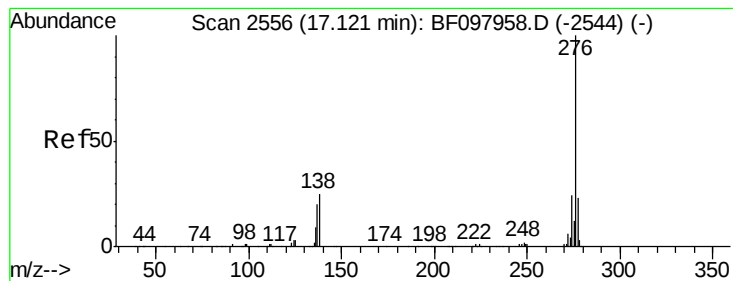
Tot Ion	Ratio	Lower	Upper
252	100		
253	23.9	18.4	27.6
125	13.6	13.1	19.7



#89
Benzo(a)pyrene
Concen: 9.76 ng
RT: 15.24 min Scan# 2237
Delta R.T. -0.01 min
Lab File: BF098048.D
Acq: 25 Aug 2017 23:35

Tgt Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	14.7	11.0	16.4





#91

Benzo(a,h,i)perylene

Concen: 6.35 ng

RT: 17.09 min Scan# 2551

Delta R.T. -0.02 min

Lab File: BF098048.D

Acq: 25 Aug 2017 23:35

Instrument :

BNA_F

ClientSampleId :

IRON-LEAF-TOPSOIL

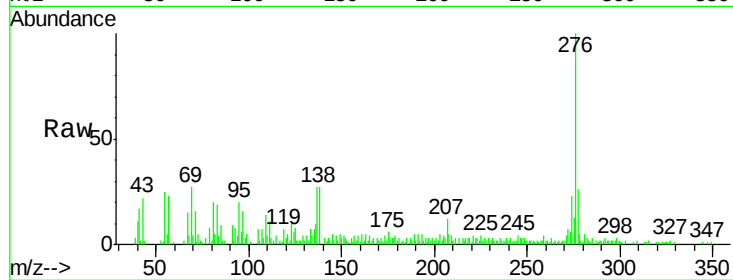
Tot Ion:276 Resp: 52750

Ion Ratio Lower Upper

276 100

277 25.6 18.6 28.0

138 27.1 25.4 38.0



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

