

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF051916\
 Data File : BF087192.D
 Acq On : 19 May 2016 17:39
 Operator : UM/SJ
 Sample : H3161-01
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 SOIL-CUTTINGS

Quant Time: May 20 02:33:14 2016
 Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF051716.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 17 16:55:01 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.57	152	139442	20.00	ng	-0.03
21) Naphthalene-d8	7.85	136	567146	20.00	ng	-0.05
38) Acenaphthene-d10	9.60	164	271047	20.00	ng	-0.05
63) Phenanthrene-d10	11.07	188	463197	20.00	ng	-0.05
75) Chrysene-d12	13.70	240	300736	20.00	ng	-0.06
86) Perylene-d12	15.05	264	277141	20.00	ng	-0.06

System Monitoring Compounds						
5) 2-Fluorophenol	5.15	112	1036211	124.91	ng	-0.05
7) Phenol-d6	6.24	99	1449028	130.23	ng	-0.05
23) Nitrobenzene-d5	7.14	82	923170	81.12	ng	-0.05
41) 2,4,6-Tribromophenol	10.40	330	391524	130.72	ng	-0.05
44) 2-Fluorobiphenyl	8.94	172	1483689	90.66	ng	-0.05
78) Terphenyl-d14	12.66	244	1098851	82.65	ng	-0.05

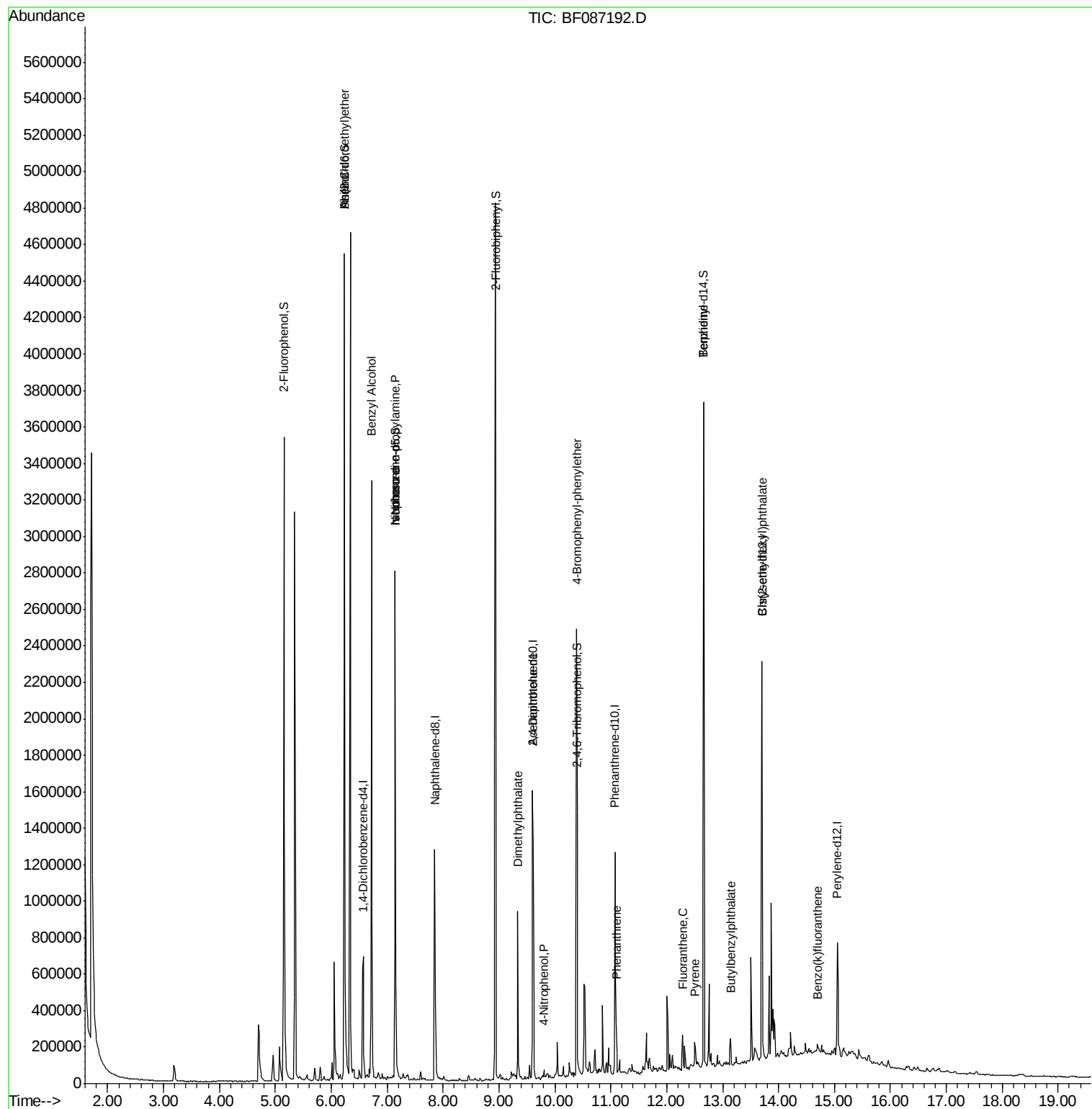
Target Compounds						Qvalue
6) Aniline	6.24	93	178859	12.66	ng	# 54
11) bis(2-Chloroethyl)ether	6.24	93	178859	17.03	ng	# 27
15) Benzyl Alcohol	6.72	79	18189	2.20	ng	# 41
19) n-Nitroso-di-n-propylamine	7.14	70	131197	15.51	ng	# 74
25) Isophorone	7.14	82	758927	36.43	ng	# 68
49) Dimethylphthalate	9.34	163	308490	14.92	ng	99
55) 4-Nitrophenol	9.80	139	4455	3.14	ng	# 33
56) 2,4-Dinitrotoluene	9.60	165	34395	5.98	ng	# 17
66) 4-Bromophenyl-phenylether	10.39	248	21983	4.62	ng	# 1
70) Phenanthrene	11.10	178	101119	4.03	ng	99
74) Fluoranthene	12.28	202	80804	3.21	ng	92
76) Benzidine	12.66	184	18007	2.55	ng	# 95
77) Pyrene	12.50	202	65480	3.01	ng	96
79) Butylbenzylphthalate	13.14	149	38239	4.17	ng	92
83) Bis(2-ethylhexyl)phthalate	13.70	149	315821	28.29	ng	97
88) Benzo(k)fluoranthene	14.70	252	28090	2.05	ng	# 86

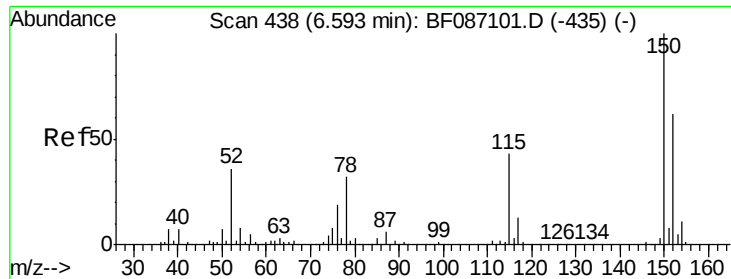
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 20.00 ng

RT: 6.57 min Scan# 436

Delta R.T. -0.03 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGS

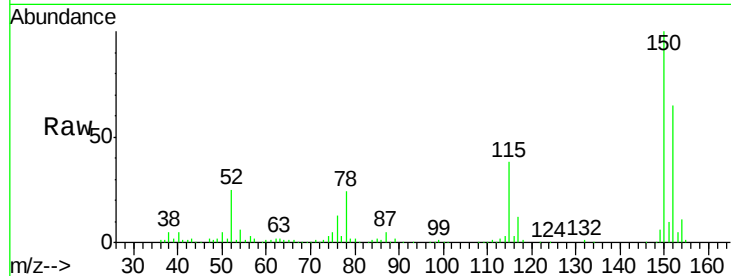
Tgt Ion:152 Resp: 139442

Ion Ratio Lower Upper

152 100

150 153.9 125.8 188.6

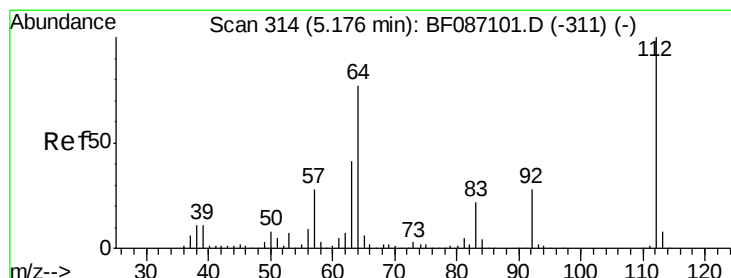
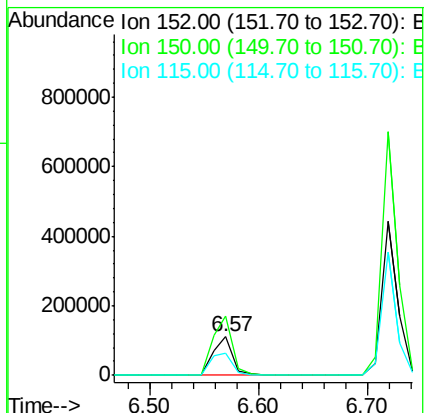
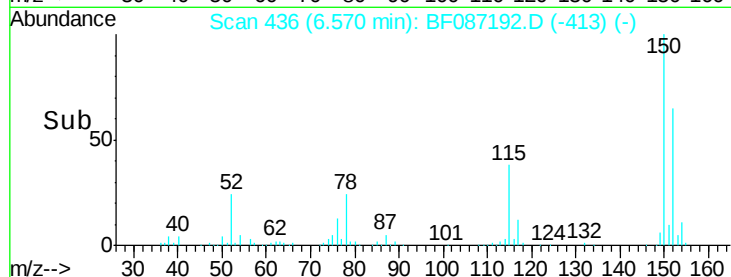
115 57.8 51.5 77.3



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: 124.91 ng

RT: 5.15 min Scan# 312

Delta R.T. -0.05 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

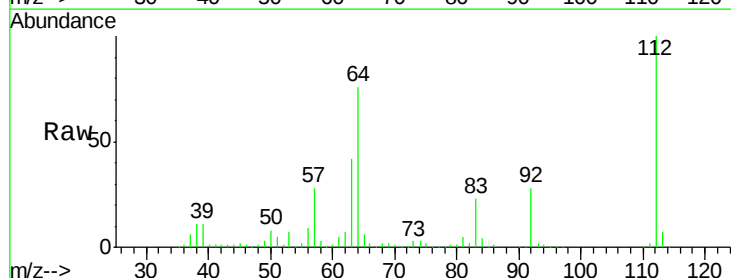
Tgt Ion:112 Resp: 1036211

Ion Ratio Lower Upper

112 100

64 76.3 52.1 78.1

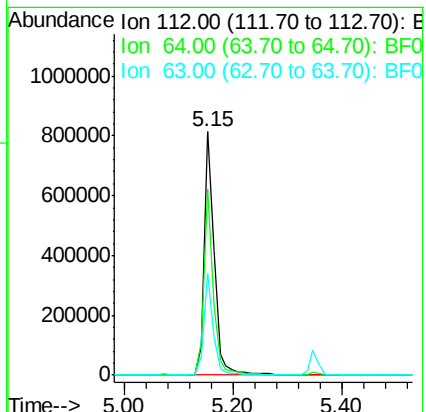
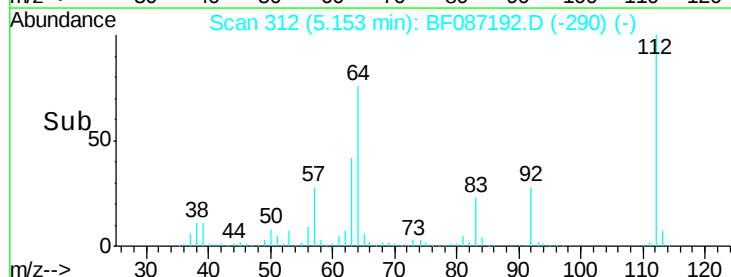
63 41.8 25.7 38.5#

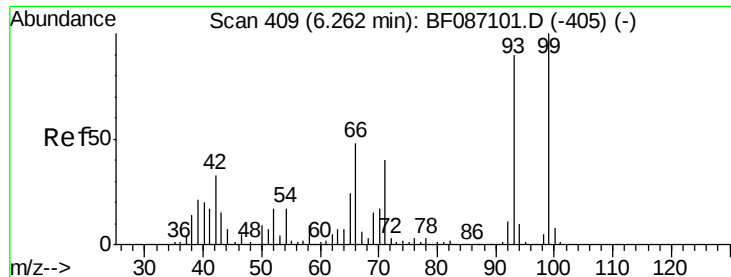


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BF0

Ion 63.00 (62.70 to 63.70): BF0





#6

Aniline

Concen: 12.66 ng

RT: 6.24 min Scan# 407

Delta R.T. -0.03 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGS

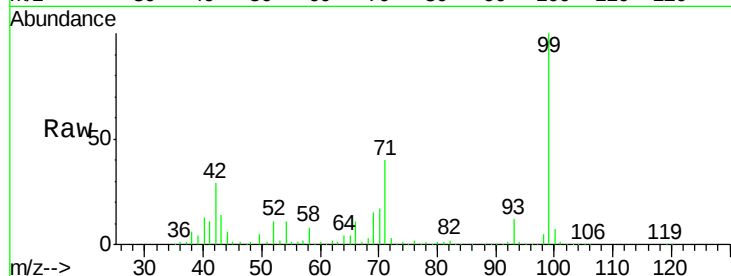
Tgt Ion: 93 Resp: 178859

Ion Ratio Lower Upper

93 100

66 94.0 39.0 58.6#

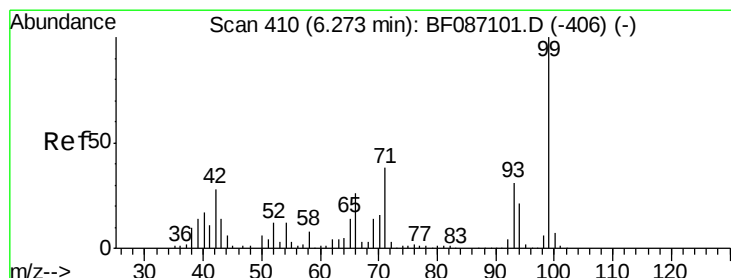
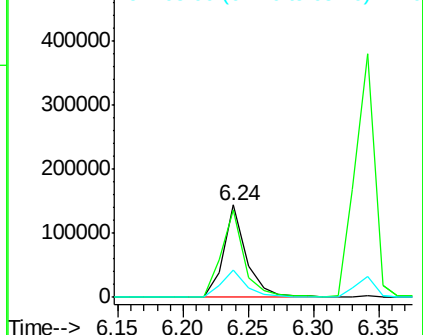
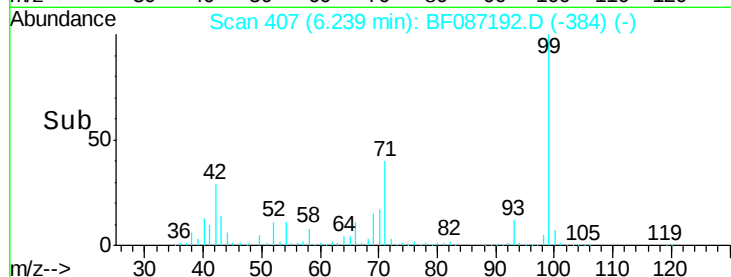
65 30.0 20.6 31.0



Abundance Ion 93.00 (92.70 to 93.70): BF0

Ion 66.00 (65.70 to 66.70): BF0

Ion 65.00 (64.70 to 65.70): BF0



#7

Phenol-d6

Concen: 130.23 ng

RT: 6.24 min Scan# 407

Delta R.T. -0.05 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

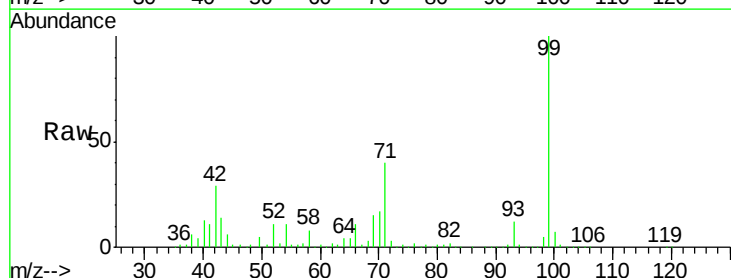
Tgt Ion: 99 Resp: 1449028

Ion Ratio Lower Upper

99 100

42 29.0 13.6 20.4#

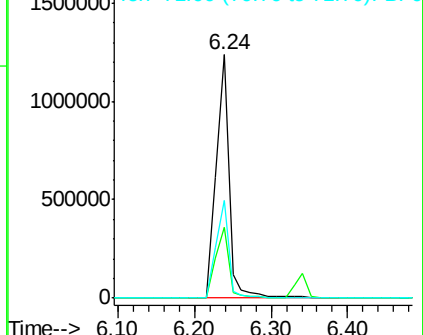
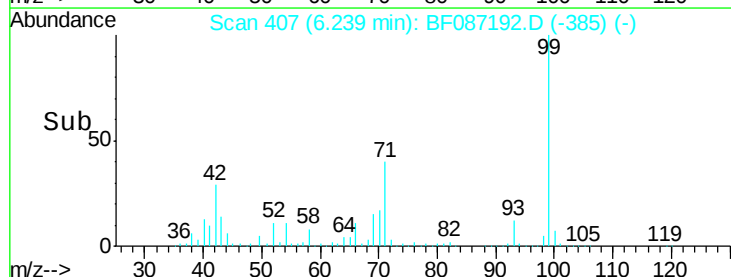
71 40.2 24.6 36.8#

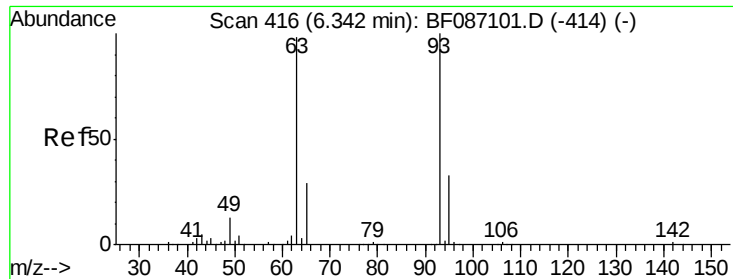


Abundance Ion 99.00 (98.70 to 99.70): BF0

Ion 42.00 (41.70 to 42.70): BF0

Ion 71.00 (70.70 to 71.70): BF0

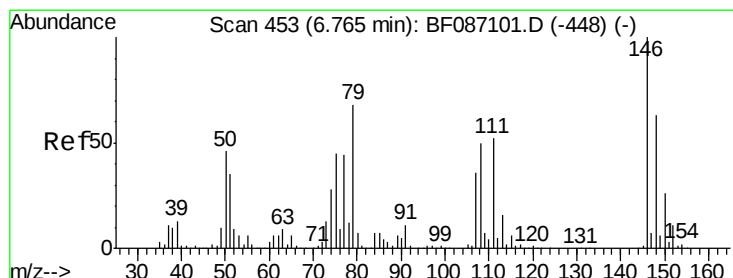
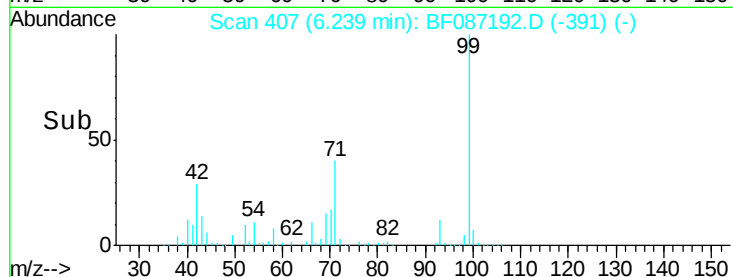
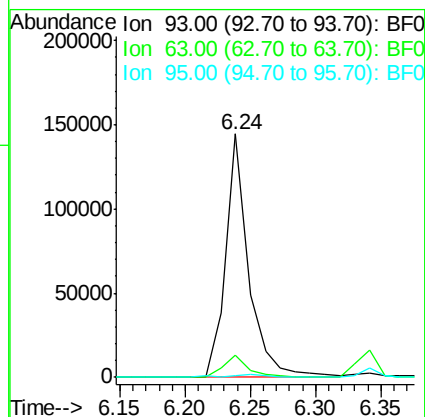
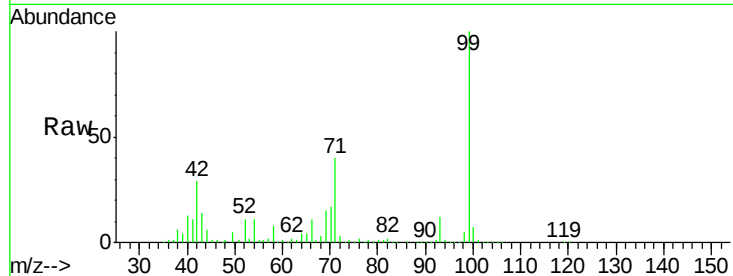




#11
bis(2-Chloroethyl)ether
Concen: 17.03 ng
RT: 6.24 min Scan# 407
Delta R.T. -0.11 min
Lab File: BF087192.D
Acq: 19 May 2016 17:39

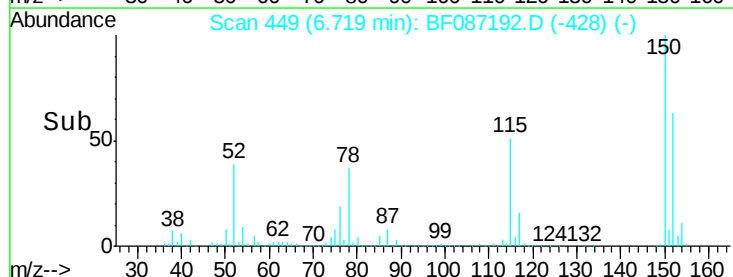
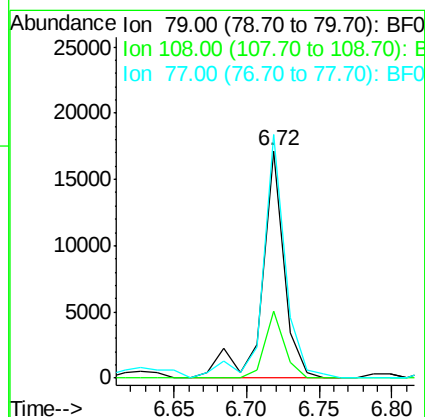
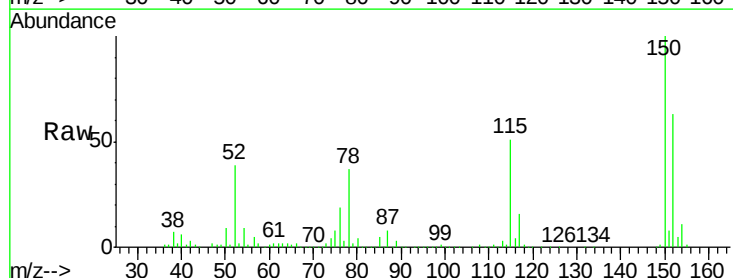
Instrument :
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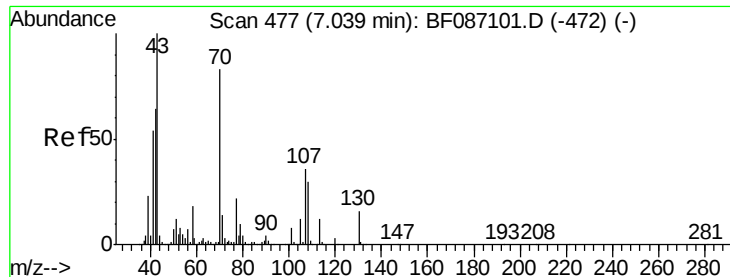
Tgt Ion: 93 Resp: 178859
Ion Ratio Lower Upper
93 100
63 8.9 58.0 98.0#
95 0.6 11.9 51.9#



#15
Benzyl Alcohol
Concen: 2.20 ng
RT: 6.72 min Scan# 449
Delta R.T. -0.06 min
Lab File: BF087192.D
Acq: 19 May 2016 17:39

Tgt Ion: 79 Resp: 18189
Ion Ratio Lower Upper
79 100
108 29.3 68.4 102.6#
77 107.0 50.6 76.0#

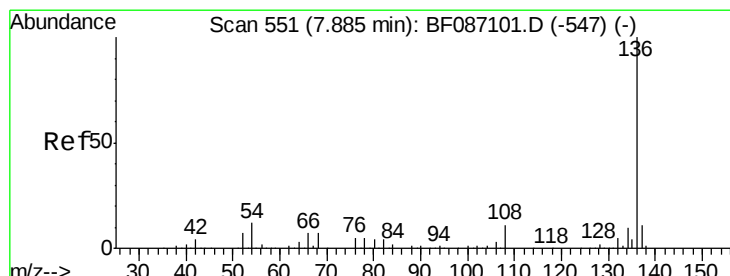
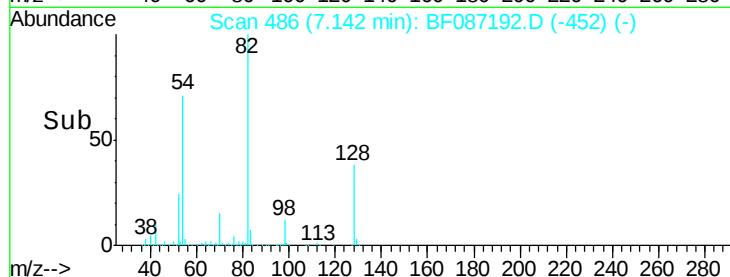
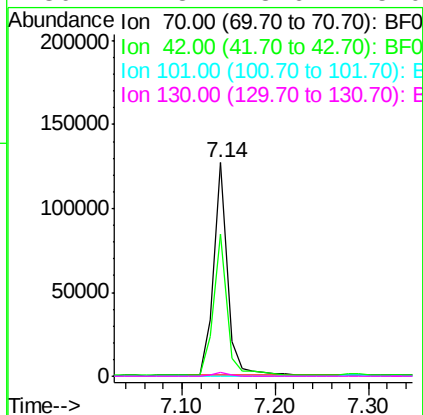
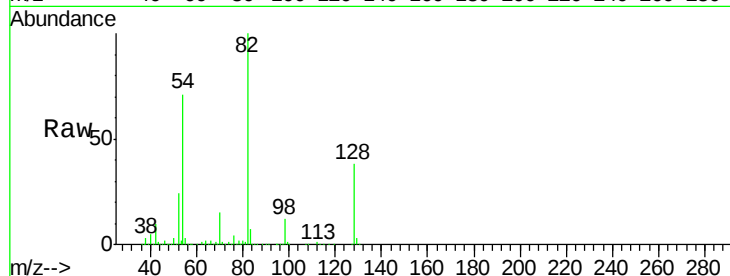




#19
n-Nitroso-di-n-propylamine
Concen: 15.51 ng
RT: 7.14 min Scan# 486
Delta R.T. 0.09 min
Lab File: BF087192.D
Acq: 19 May 2016 17:39

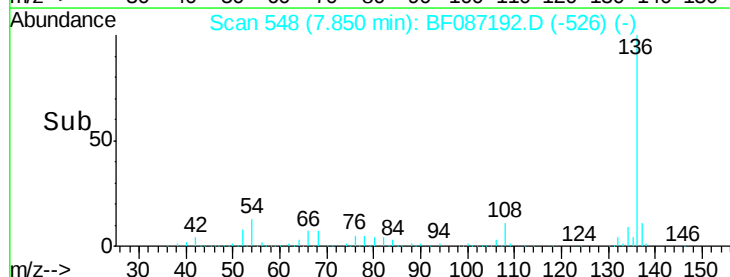
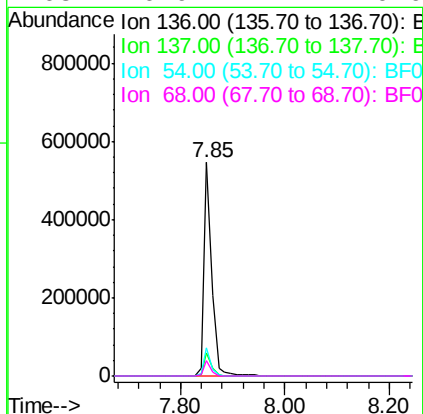
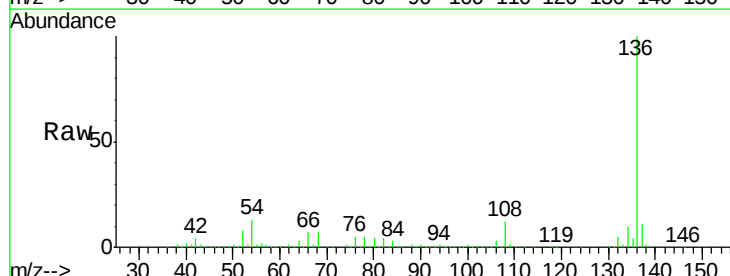
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS

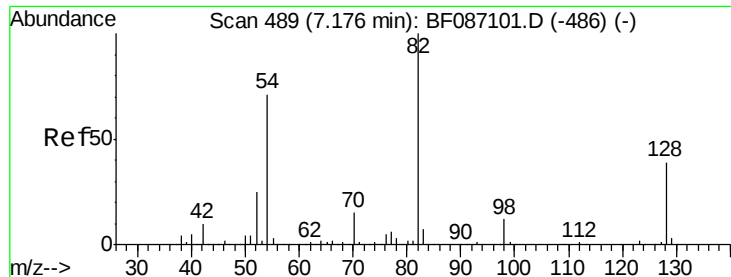
Tgt Ion: 70 Resp: 131197
Ion Ratio Lower Upper
70 100
42 66.8 43.1 64.7#
101 0.0 8.1 12.1#
130 1.8 18.6 28.0#



#21
Naphthalene-d8
Concen: 20.00 ng
RT: 7.85 min Scan# 548
Delta R.T. -0.05 min
Lab File: BF087192.D
Acq: 19 May 2016 17:39

Tgt Ion: 136 Resp: 567146
Ion Ratio Lower Upper
136 100
137 11.1 8.8 13.2
54 13.5 5.0 7.4#
68 6.9 4.4 6.6#

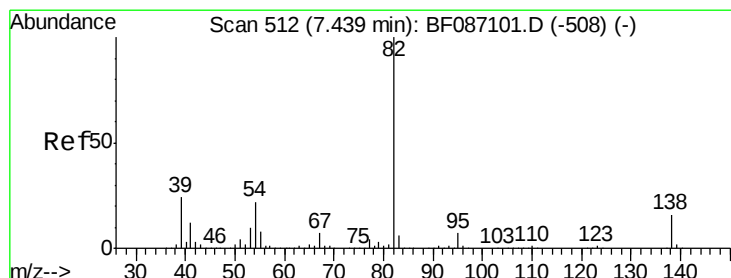
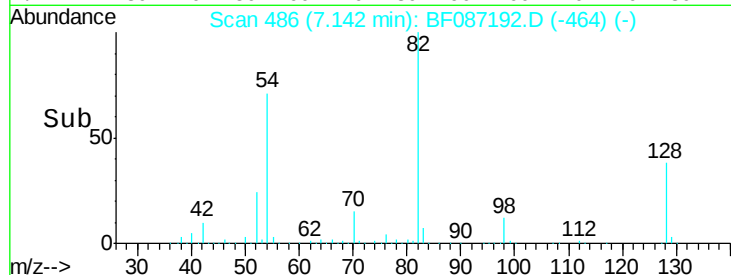
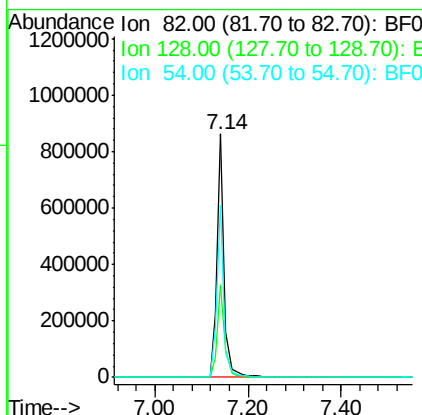
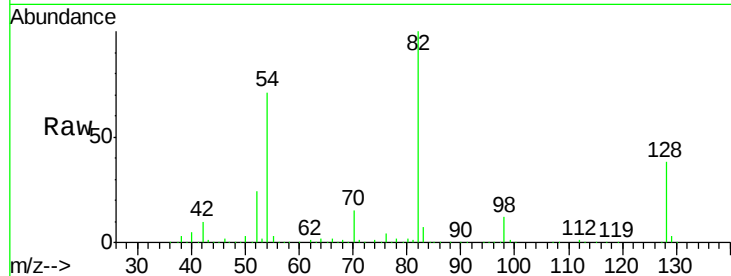




#23
 Nitrobenzene-d5
 Concen: 81.12 ng
 RT: 7.14 min Scan# 486
 Delta R.T. -0.05 min
 Lab File: BF087192.D
 Acq: 19 May 2016 17:39

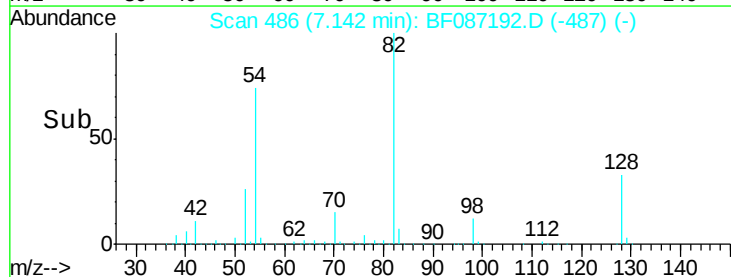
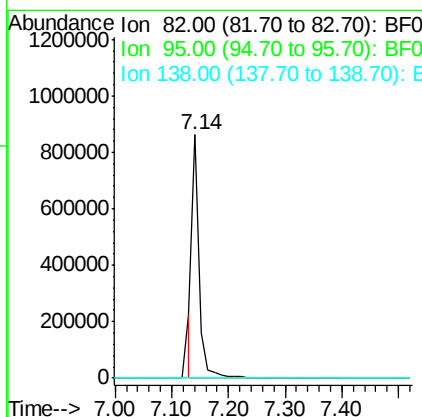
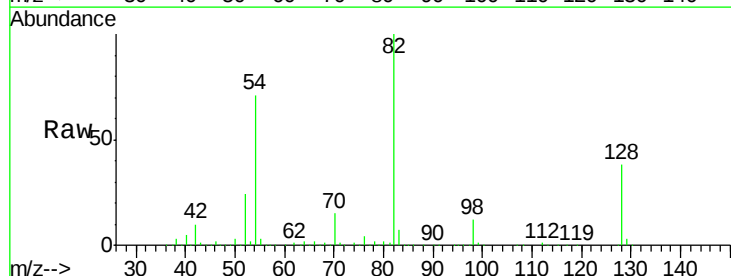
Instrument :
 BNA_F
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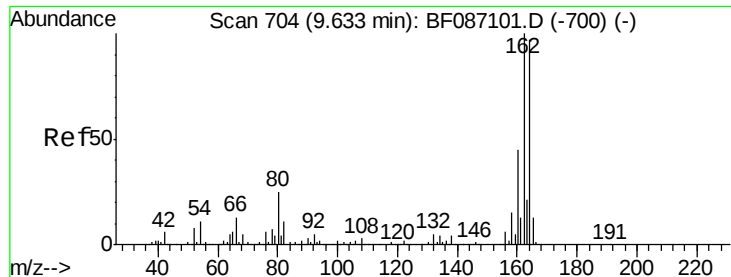
Tgt Ion: 82 Resp: 923170
 Ion Ratio Lower Upper
 82 100
 128 38.0 40.6 61.0#
 54 70.7 38.1 57.1#



#25
 Isophorone
 Concen: 36.43 ng
 RT: 7.14 min Scan# 486
 Delta R.T. -0.31 min
 Lab File: BF087192.D
 Acq: 19 May 2016 17:39

Tgt Ion: 82 Resp: 758927
 Ion Ratio Lower Upper
 82 100
 95 0.0 5.1 7.7#
 138 0.0 12.4 18.6#





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.60 min Scan# 701

Delta R.T. -0.05 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGS

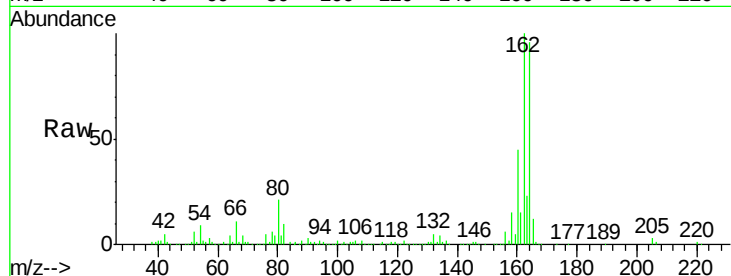
Tgt Ion:164 Resp: 271047

Ion Ratio Lower Upper

164 100

162 104.1 82.8 124.2

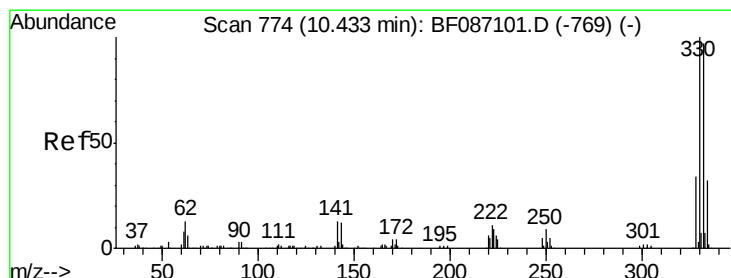
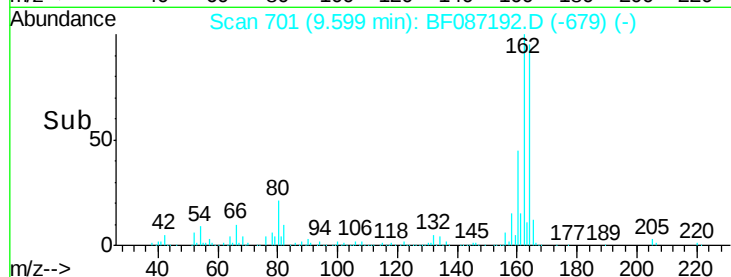
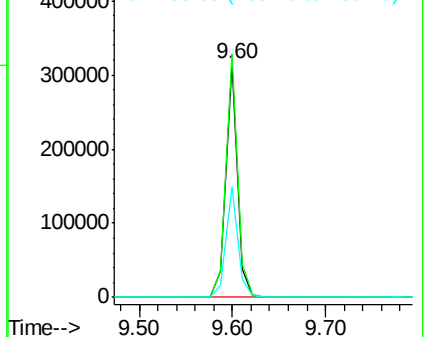
160 47.0 36.9 55.3



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: 130.72 ng

RT: 10.40 min Scan# 771

Delta R.T. -0.05 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

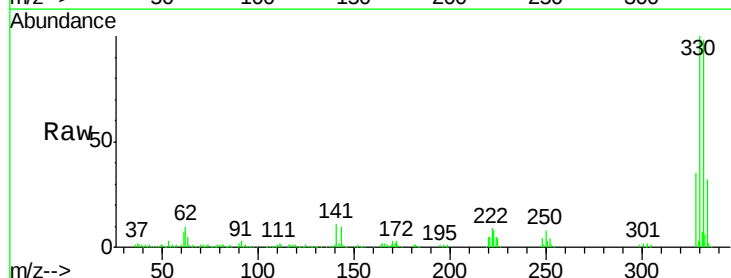
Tgt Ion:330 Resp: 391524

Ion Ratio Lower Upper

330 100

332 97.2 79.0 118.4

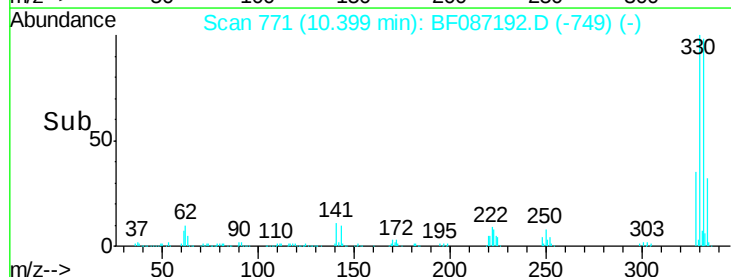
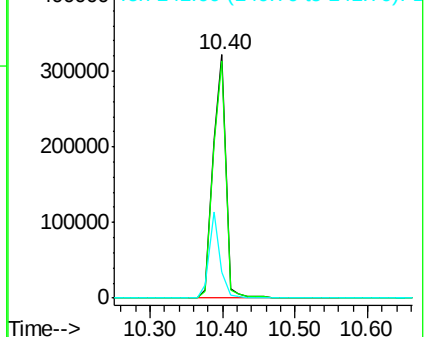
141 31.1 31.2 46.8#

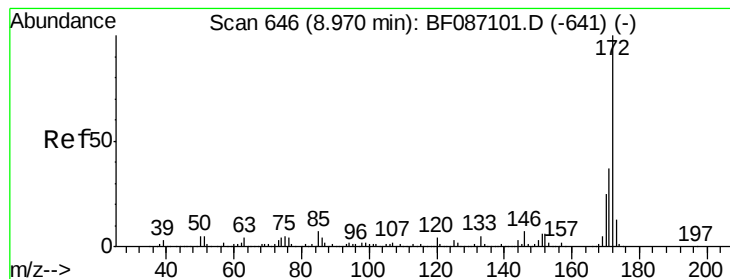


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E





#44

2-Fluorobiphenyl

Concen: 90.66 ng

RT: 8.94 min Scan# 643

Delta R.T. -0.05 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

Instrument :

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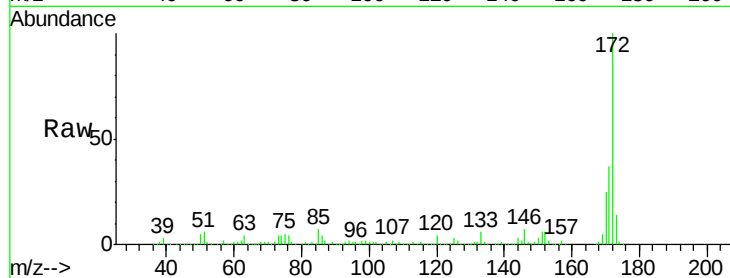
Tgt Ion:172 Resp: 1483689

Ion Ratio Lower Upper

172 100

171 36.8 29.0 43.6

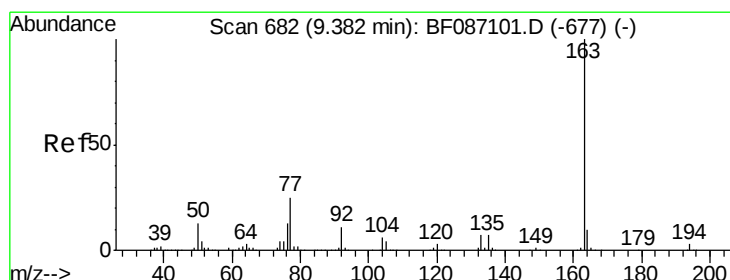
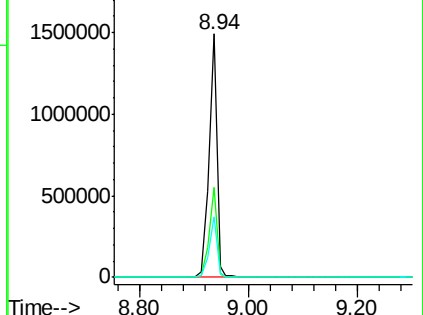
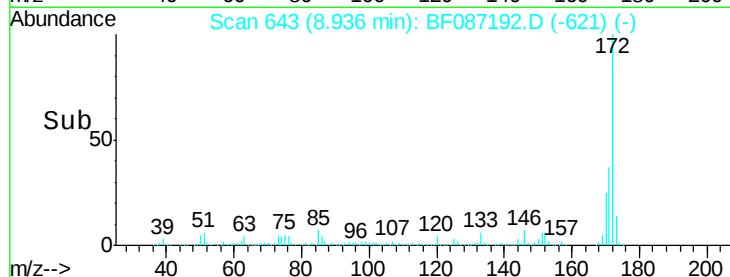
170 25.0 19.8 29.8



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: 14.92 ng

RT: 9.34 min Scan# 678

Delta R.T. -0.06 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

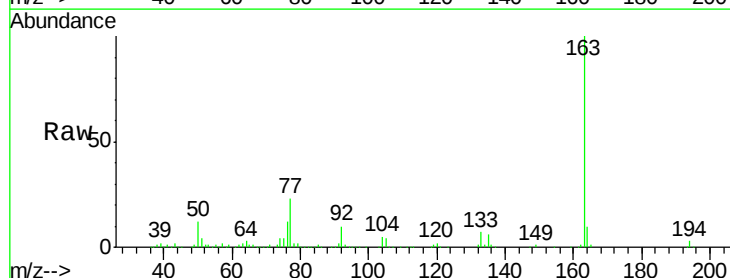
Tgt Ion:163 Resp: 308490

Ion Ratio Lower Upper

163 100

194 3.1 2.6 4.0

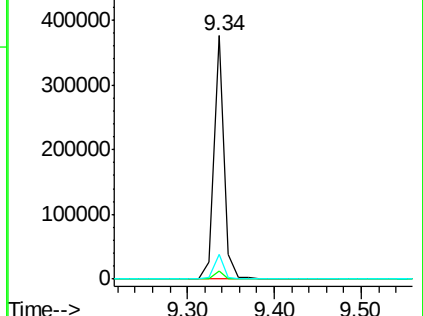
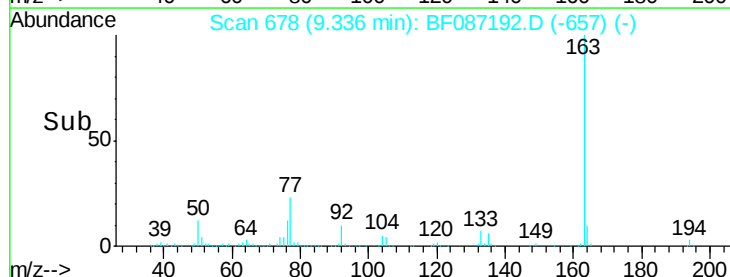
164 10.1 8.2 12.4

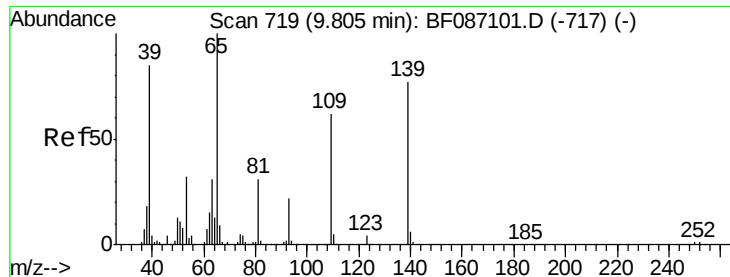


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

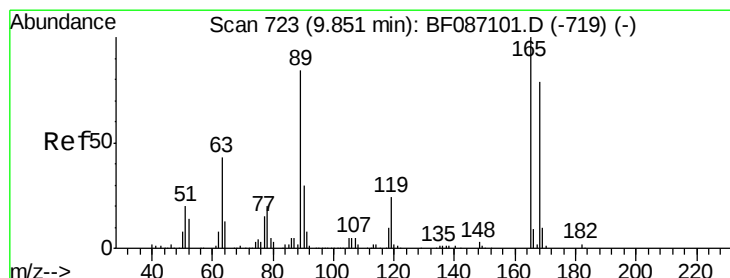
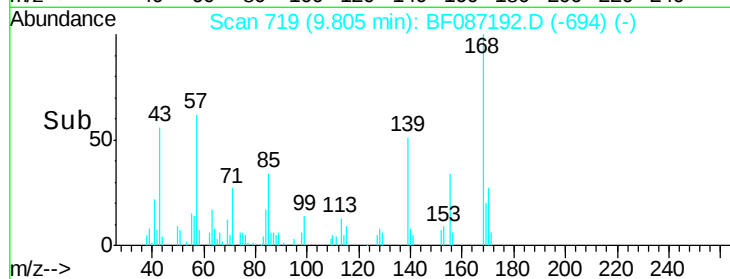
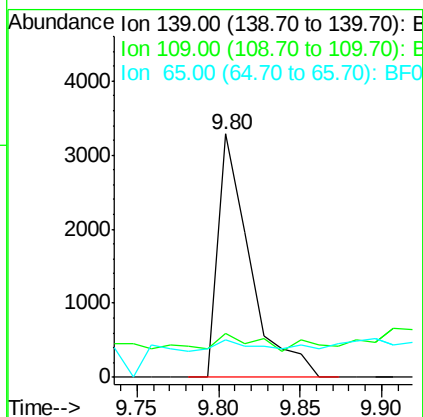
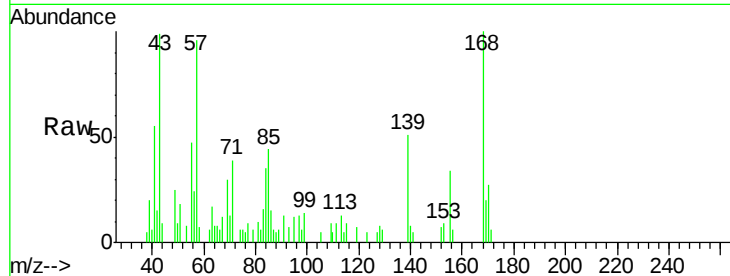




#55
4-Nitrophenol
Concen: 3.14 ng
RT: 9.80 min Scan# 719
Delta R.T. -0.01 min
Lab File: BF087192.D
Acq: 19 May 2016 17:39

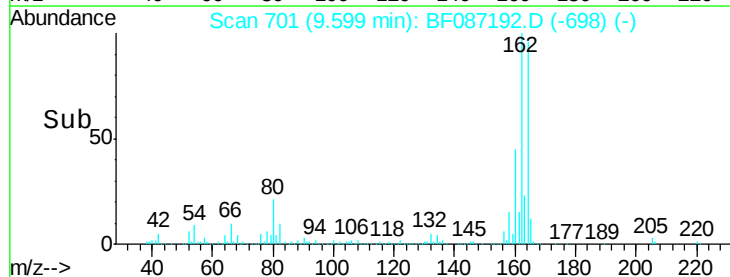
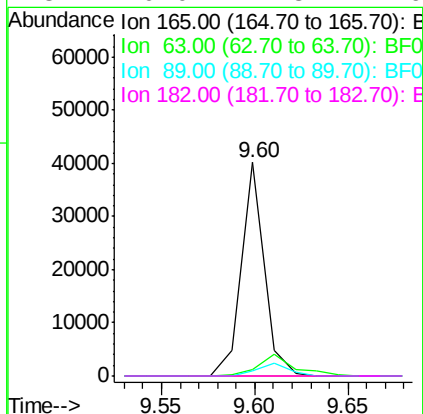
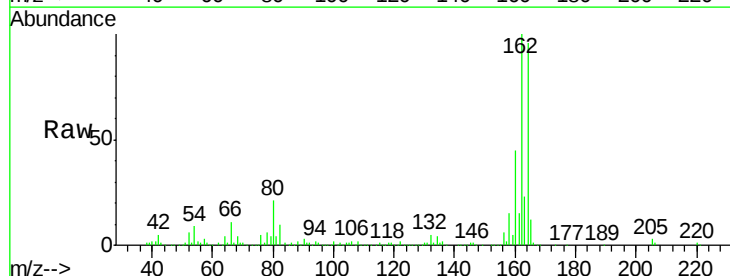
Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS

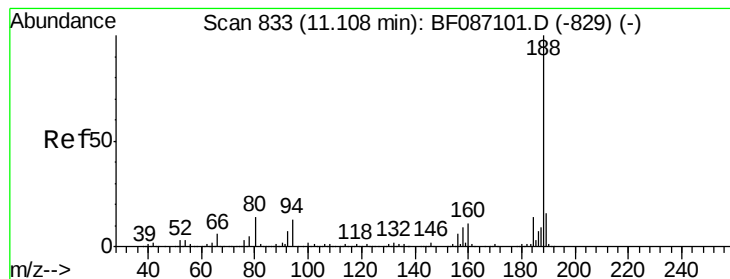
Tgt Ion	Ratio	Lower	Upper
139	100		
109	17.9	36.9	76.9#
65	15.4	64.0	104.0#



#56
2,4-Dinitrotoluene
Concen: 5.98 ng
RT: 9.60 min Scan# 701
Delta R.T. -0.26 min
Lab File: BF087192.D
Acq: 19 May 2016 17:39

Tgt Ion	Ratio	Lower	Upper
165	100		
63	2.9	44.3	66.5#
89	2.5	70.0	105.0#
182	0.0	1.8	2.6#





#63

Phenanthrene-d10

Concen: 20.00 ng

RT: 11.07 min Scan# 830

Delta R.T. -0.05 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGS

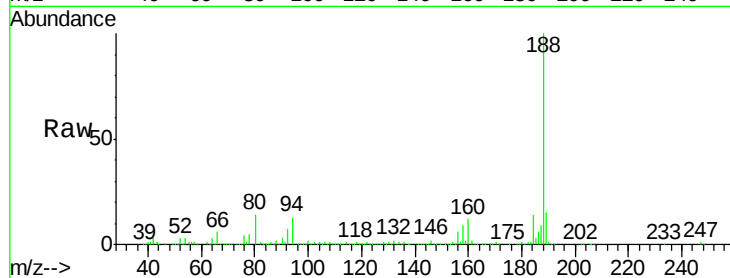
Tgt Ion:188 Resp: 463197

Ion Ratio Lower Upper

188 100

94 12.6 6.8 10.2#

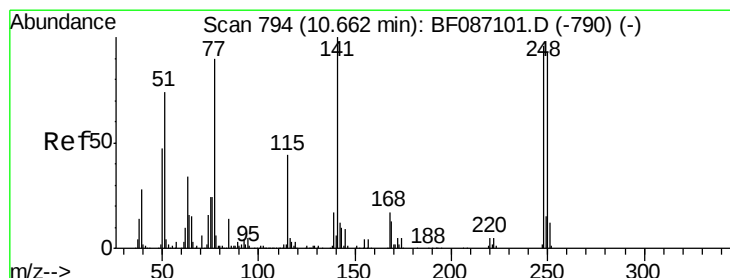
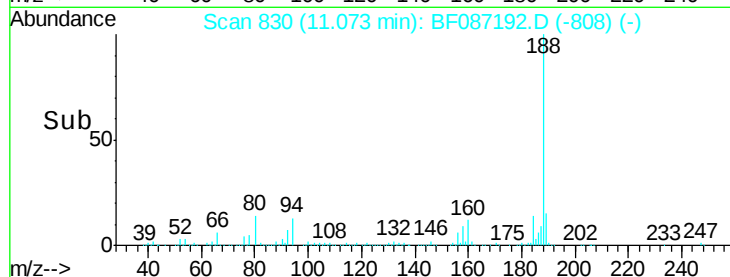
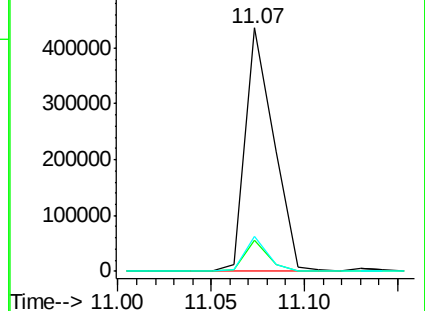
80 14.3 7.1 10.7#



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: 4.62 ng

RT: 10.39 min Scan# 770

Delta R.T. -0.29 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

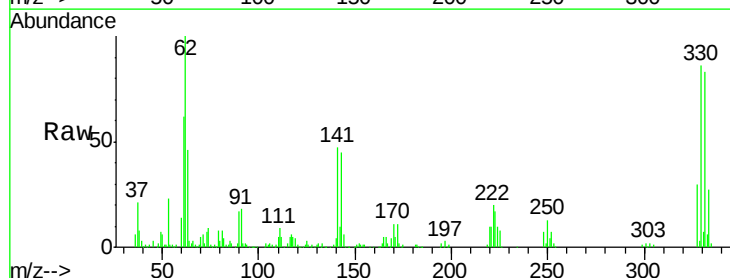
Tgt Ion:248 Resp: 21983

Ion Ratio Lower Upper

248 100

250 198.0 78.6 117.8#

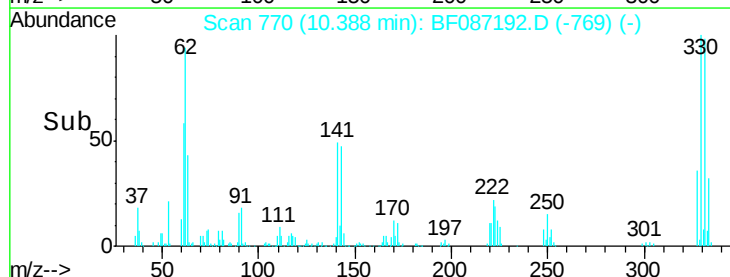
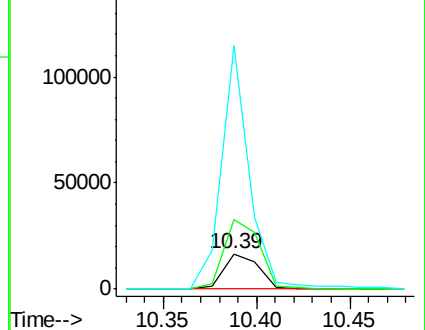
141 694.4 76.0 114.0#

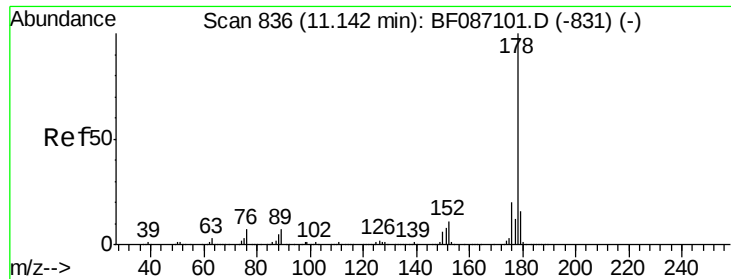


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E

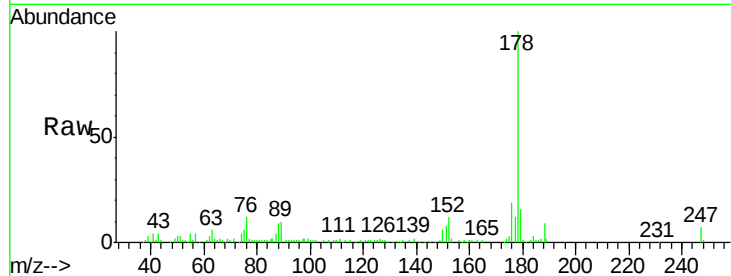




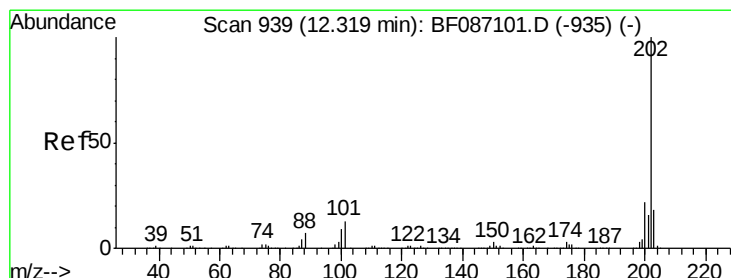
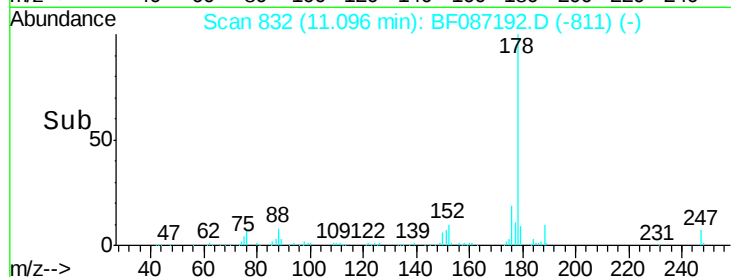
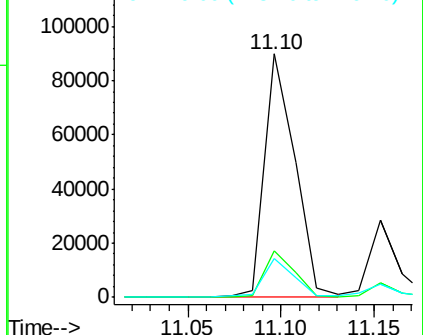
#70
Phenanthrene
Concen: 4.03 ng
RT: 11.10 min Scan# 832
Delta R.T. -0.06 min
Lab File: BF087192.D
Acq: 19 May 2016 17:39

Instrument :
BNA_F
ClientSampleId :
SOIL-CUTTINGS

Tgt Ion:178 Resp: 101119
Ion Ratio Lower Upper
178 100
176 19.0 16.0 24.0
179 15.9 12.6 18.8

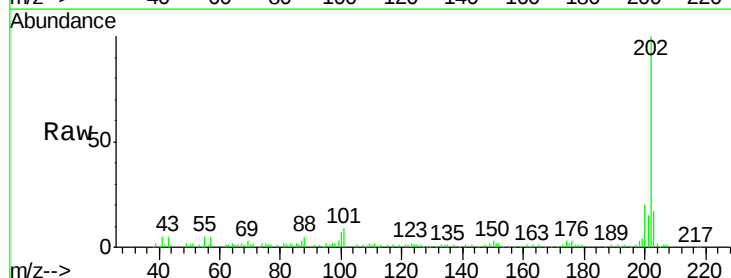


Abundance Ion 178.00 (177.70 to 178.70): E
Ion 176.00 (175.70 to 176.70): E
Ion 179.00 (178.70 to 179.70): E

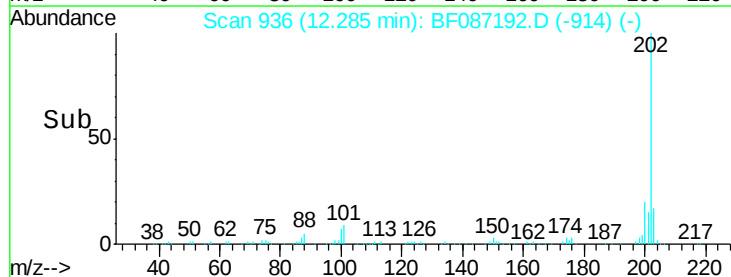
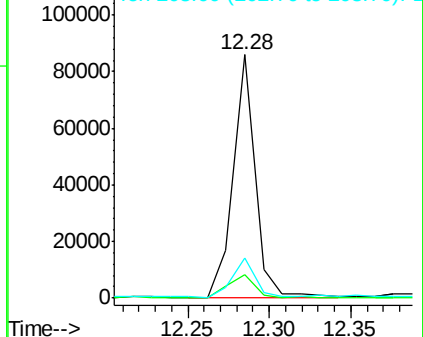


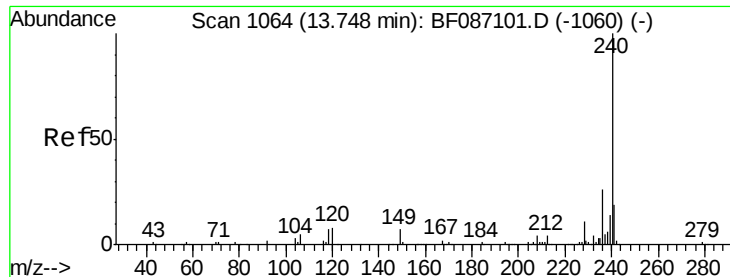
#74
Fluoranthene
Concen: 3.21 ng
RT: 12.28 min Scan# 936
Delta R.T. -0.05 min
Lab File: BF087192.D
Acq: 19 May 2016 17:39

Tgt Ion:202 Resp: 80804
Ion Ratio Lower Upper
202 100
101 9.4 0.0 35.4
203 16.5 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.00 ng

RT: 13.70 min Scan# 1060

Delta R.T. -0.06 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGS

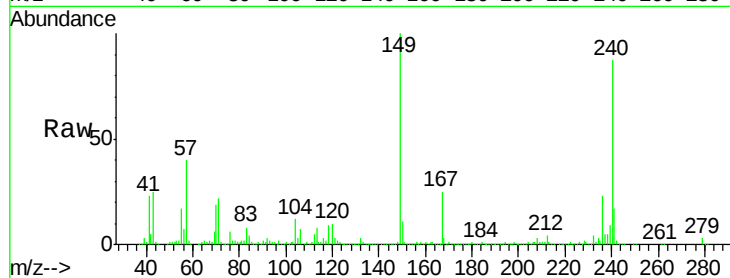
Tgt Ion:240 Resp: 300736

Ion Ratio Lower Upper

240 100

120 11.7 11.2 16.8

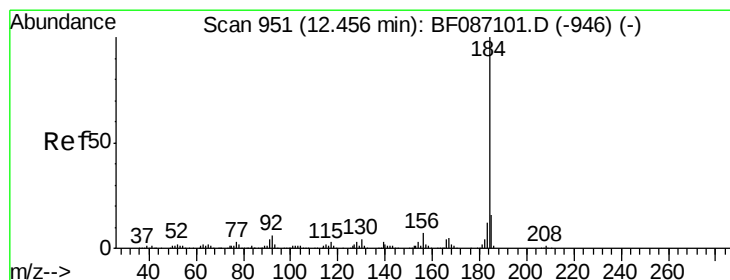
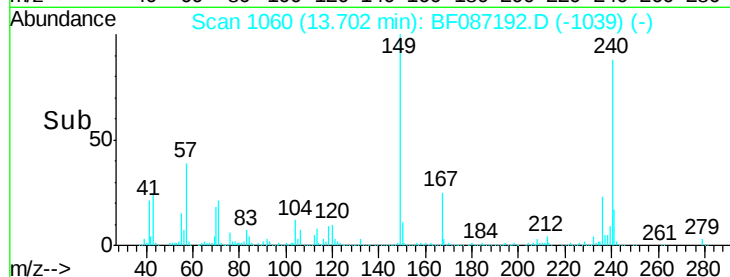
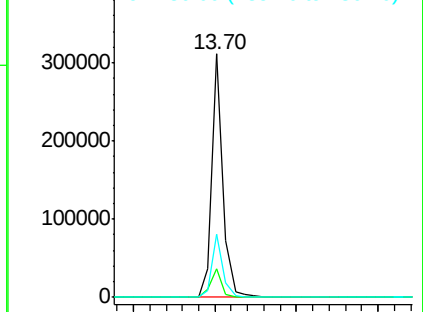
236 26.0 21.2 31.8



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



#76

Benzidine

Concen: 2.55 ng

RT: 12.66 min Scan# 969

Delta R.T. 0.20 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

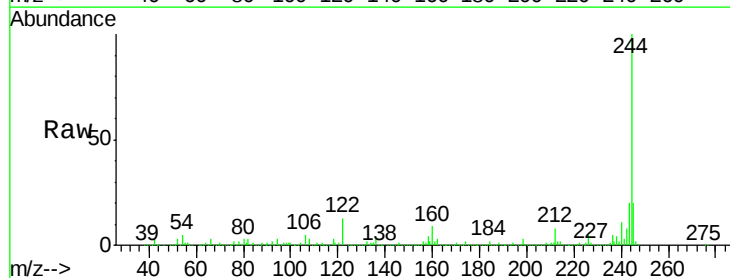
Tgt Ion:184 Resp: 18007

Ion Ratio Lower Upper

184 100

185 18.7 13.6 20.4

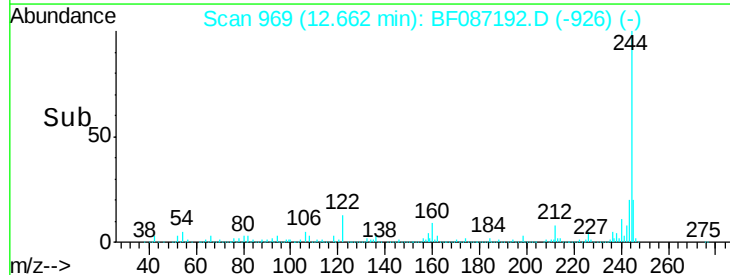
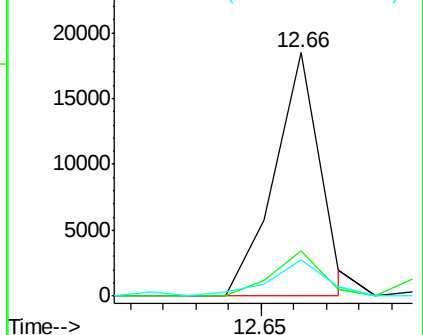
183 14.8 9.8 14.6#

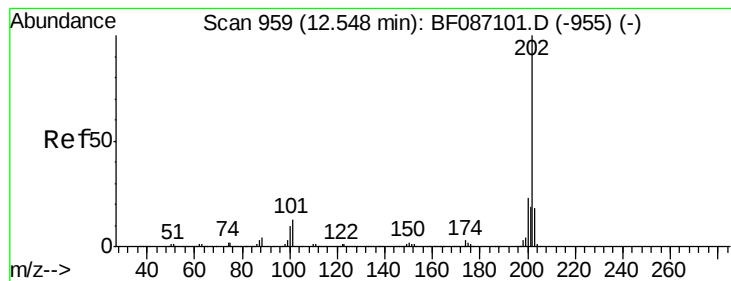


Abundance Ion 184.00 (183.70 to 184.70): E

Ion 185.00 (184.70 to 185.70): E

Ion 183.00 (182.70 to 183.70): E





#77

Pyrene

Concen: 3.01 ng

RT: 12.50 min Scan# 955

Delta R.T. -0.06 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGS

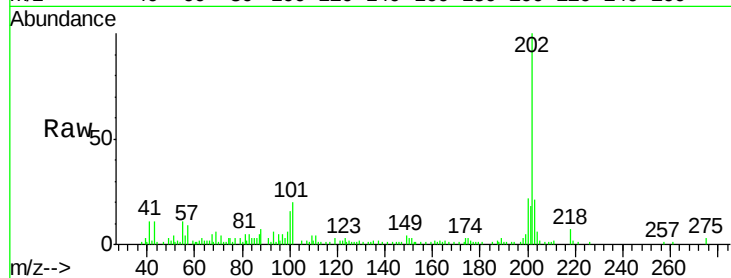
Tgt Ion:202 Resp: 65480

Ion Ratio Lower Upper

202 100

200 21.8 17.7 26.5

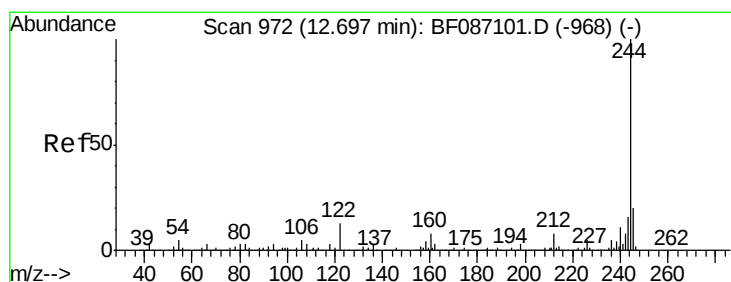
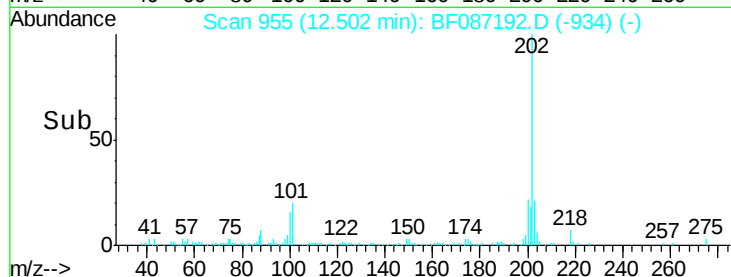
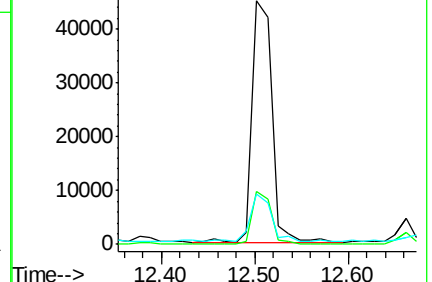
203 20.9 14.2 21.4



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



#78

Terphenyl-d14

Concen: 82.65 ng

RT: 12.66 min Scan# 969

Delta R.T. -0.05 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

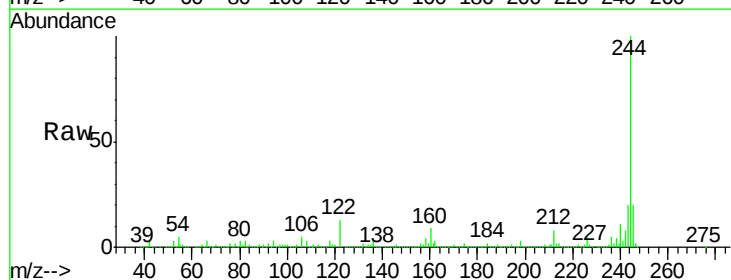
Tgt Ion:244 Resp: 1098851

Ion Ratio Lower Upper

244 100

212 8.0 6.2 9.2

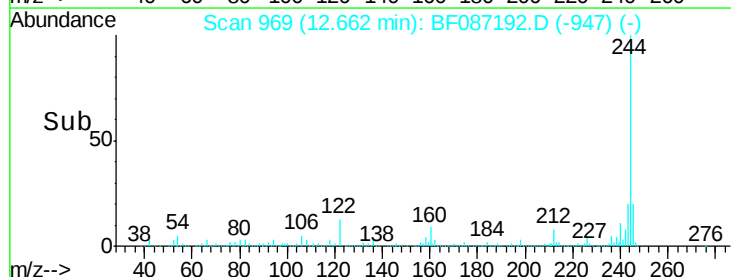
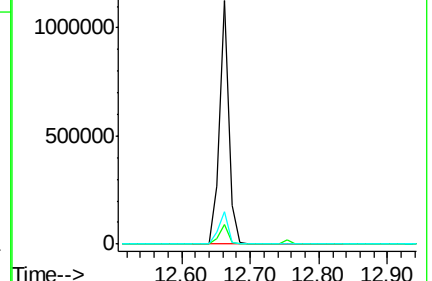
122 13.3 12.0 18.0

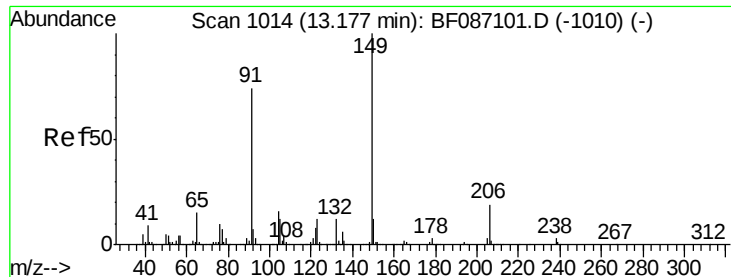


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#79

Butylbenzylphthalate

Concen: 4.17 ng

RT: 13.14 min Scan# 1011

Delta R.T. -0.05 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGS

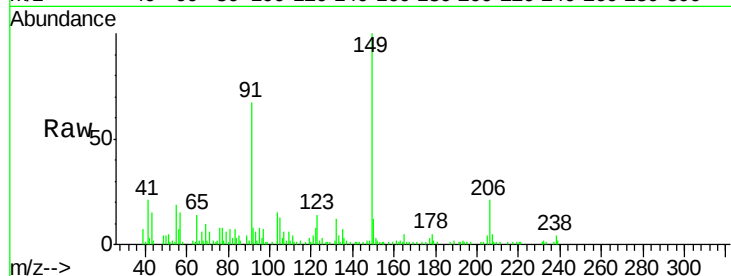
Tgt Ion:149 Resp: 38239

Ion Ratio Lower Upper

149 100

91 67.3 48.0 72.0

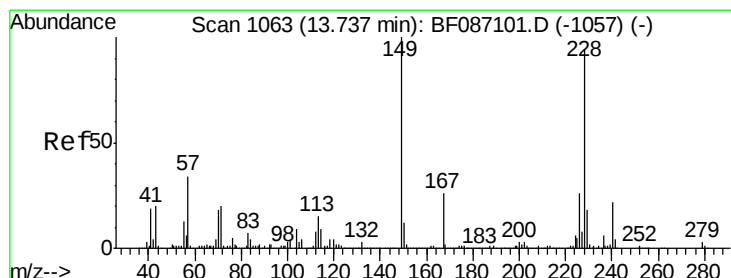
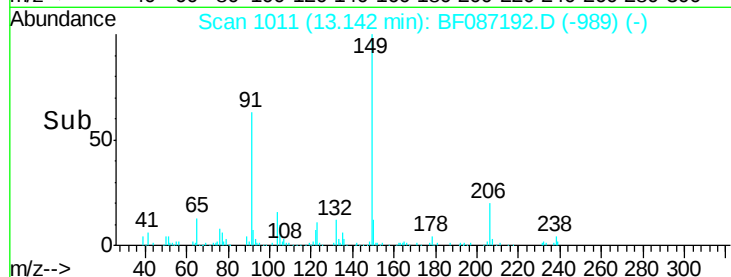
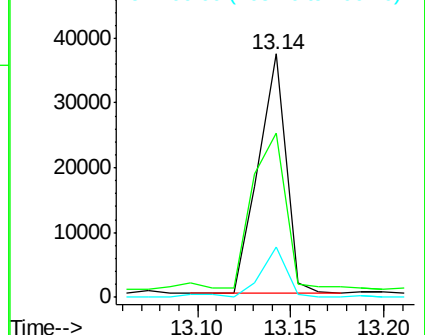
206 20.5 15.8 23.6



Abundance Ion 149.00 (148.70 to 149.70): E

Ion 91.00 (90.70 to 91.70): BF0

Ion 206.00 (205.70 to 206.70): E



#83

Bis(2-ethylhexyl)phthalate

Concen: 28.29 ng

RT: 13.70 min Scan# 1060

Delta R.T. -0.05 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

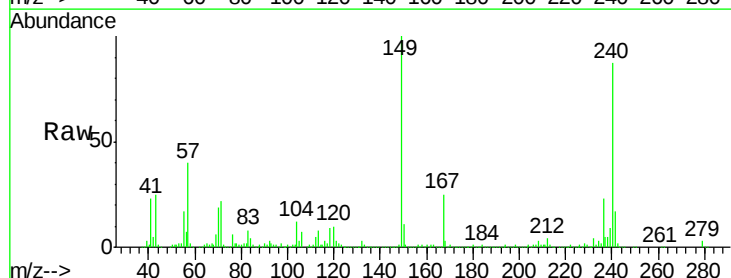
Tgt Ion:149 Resp: 315821

Ion Ratio Lower Upper

149 100

167 25.3 21.8 32.6

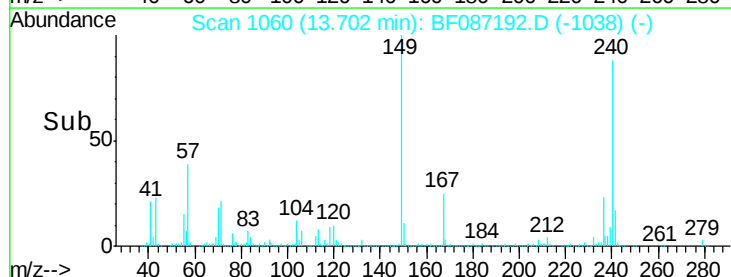
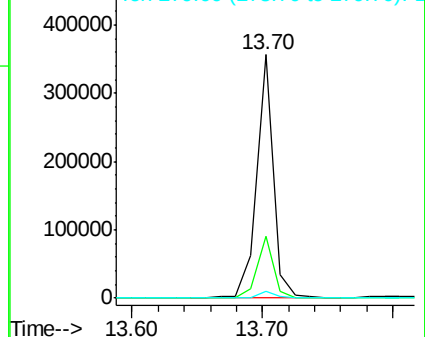
279 2.8 2.6 4.0

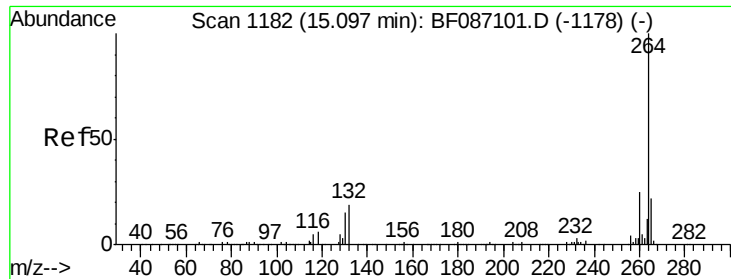


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E





#86

Perylene-d12

Concen: 20.00 ng

RT: 15.05 min Scan# 1178

Delta R.T. -0.06 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

Instrument :

BNA_F

ClientSampleId :

SOIL-CUTTINGS

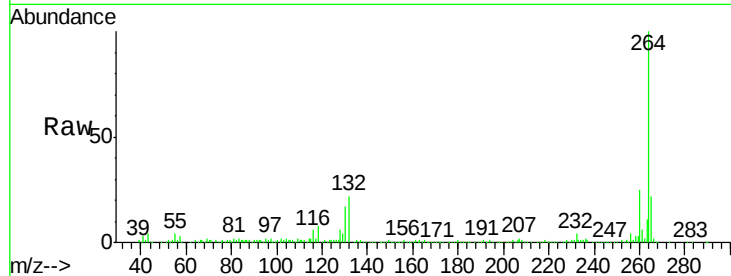
Tgt Ion:264 Resp: 277141

Ion Ratio Lower Upper

264 100

260 24.6 19.5 29.3

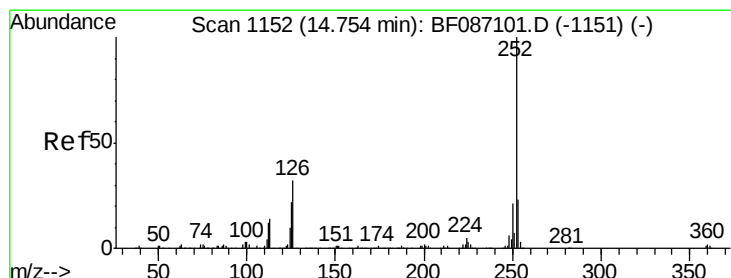
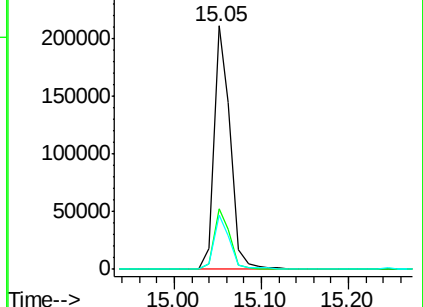
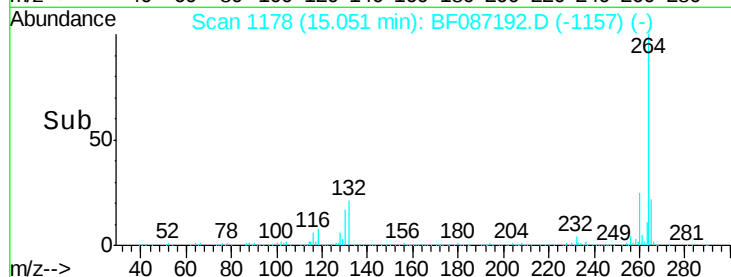
265 22.4 17.3 25.9



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(k)fluoranthene

Concen: 2.05 ng

RT: 14.70 min Scan# 1147

Delta R.T. -0.08 min

Lab File: BF087192.D

Acq: 19 May 2016 17:39

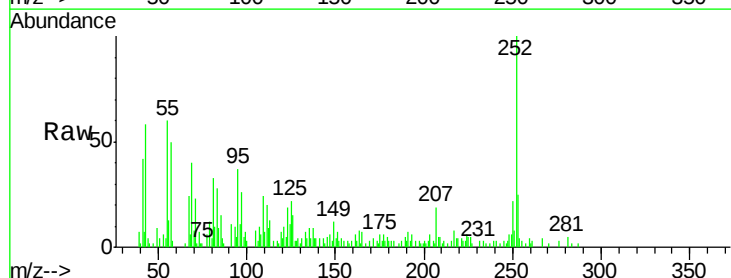
Tgt Ion:252 Resp: 28090

Ion Ratio Lower Upper

252 100

253 25.4 17.8 26.6

125 22.0 9.1 13.7#



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

