

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072018\
 Data File : BF107540.D
 Acq On : 20 Jul 2018 22:44
 Operator : JU/SJ
 Sample : J4057-17
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 LS-SOIL-5

Quant Time: Jul 21 01:35:37 2018
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF072018.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Jul 20 16:29:27 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	6.97	152	333369	20.00	ng	0.00
21) Naphthalene-d8	8.25	136	1288717	20.00	ng	0.00
38) Acenaphthene-d10	10.01	164	560120	20.00	ng	0.00
63) Phenanthrene-d10	11.51	188	995913	20.00	ng	0.00
75) Chrysene-d12	14.15	240	682708	20.00	ng	-0.01
86) Perylene-d12	15.69	264	809442	20.00	ng	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.61	112	1758899	84.83	ng	0.00
7) Phenol-d6	6.61	99	2170186	87.17	ng	0.00
23) Nitrobenzene-d5	7.54	82	1321564	69.21	ng	-0.01
41) 2,4,6-Tribromophenol	10.81	330	577335	90.64	ng	0.00
44) 2-Fluorobiphenyl	9.33	172	2160737	60.92	ng	0.00
78) Terphenyl-d14	13.09	244	1761134	66.04	ng	0.00

Target Compounds

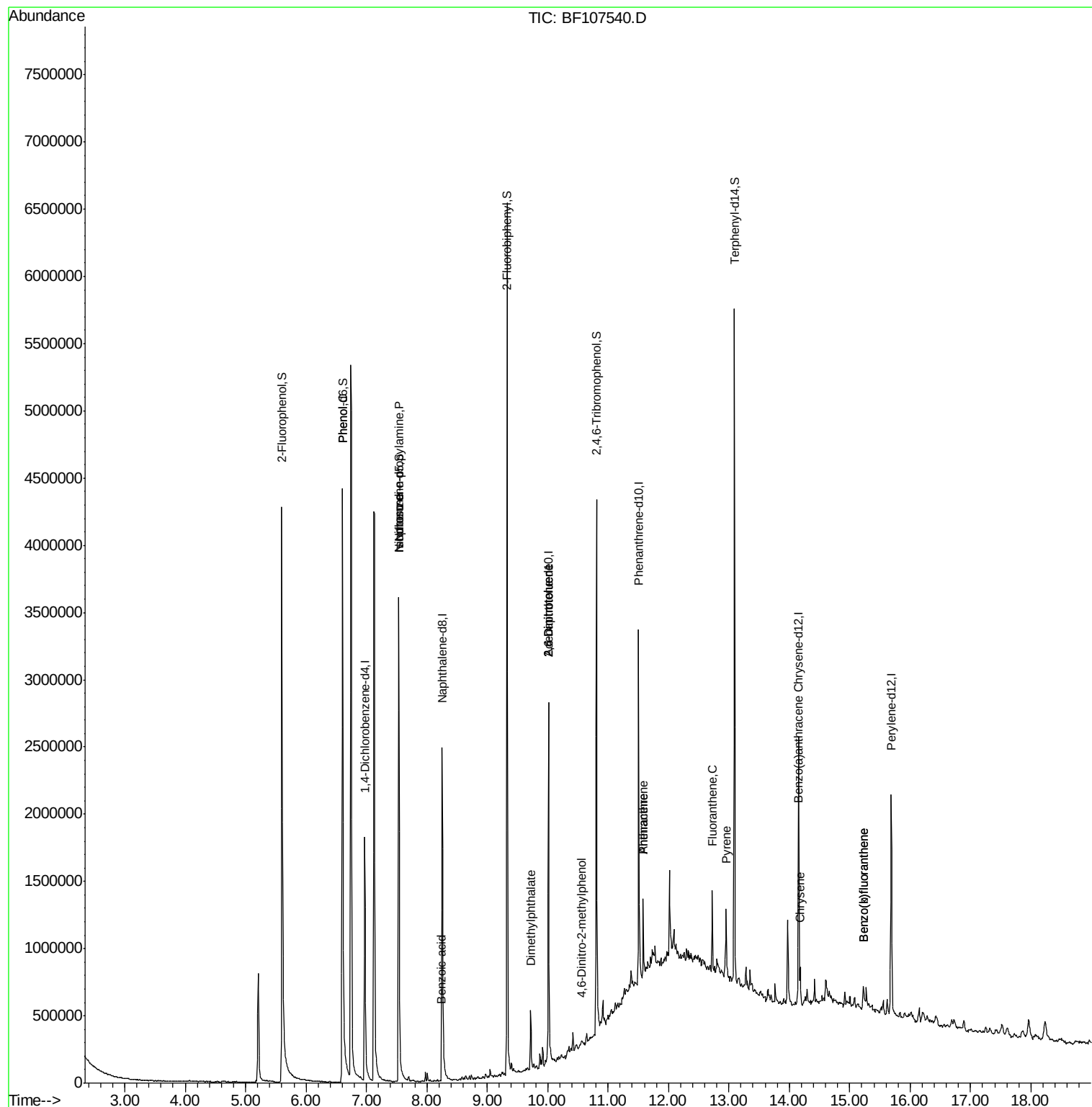
						Qvalue
9) Benzaldehyde	6.61	77	4175	Below Cal	#	1
10) Phenol	6.61	94	83654	2.857 ng	#	43
19) n-Nitroso-di-n-propylamine	7.54	70	177371	11.028 ng	#	79
25) Isophorone	7.54	82	1321556	32.413 ng	#	64
32) Benzoic acid	8.24	122	125	7.908 ng	#	31
49) Dimethylphthalate	9.72	163	160191	3.795 ng	#	99
50) 2,6-Dinitrotoluene	10.01	165	72664	8.670 ng	#	26
56) 2,4-Dinitrotoluene	10.01	165	72664	7.182 ng	#	23
64) 4,6-Dinitro-2-methylphenol	10.55	198	130	8.703 ng	#	1
70) Phenanthrene	11.58	178	232210	4.785 ng		99
71) Anthracene	11.58	178	232210	4.752 ng		99
73) Di-n-butylphthalate	12.05	149	7929	Below Cal	#	54
74) Fluoranthene	12.72	202	233907	4.492 ng		98
77) Pyrene	12.95	202	232786	4.985 ng		97
80) Benzo(a)anthracene	14.14	228	90698	2.267 ng		97
81) 3,3'-Dichlorobenzidine	14.10	252	567	Below Cal	#	1
82) Chrysene	14.18	228	115617	3.008 ng		98
87) Benzo(b)fluoranthene	15.23	252	121214	2.736 ng	#	88
88) Benzo(k)fluoranthene	15.23	252	121214	2.793 ng	#	91

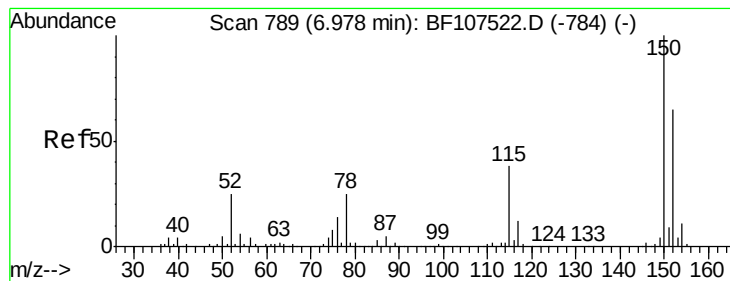
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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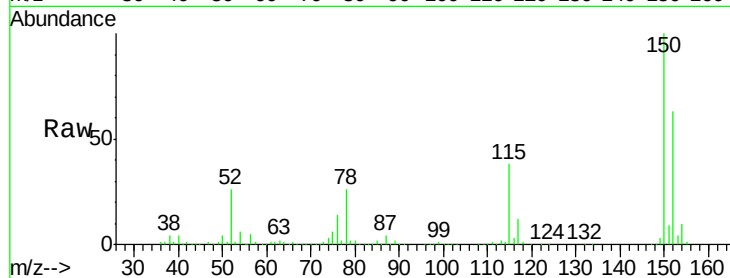


#1

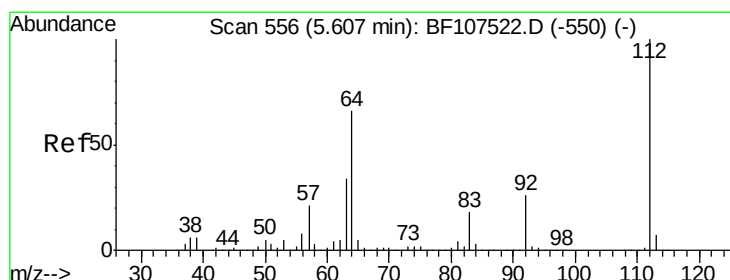
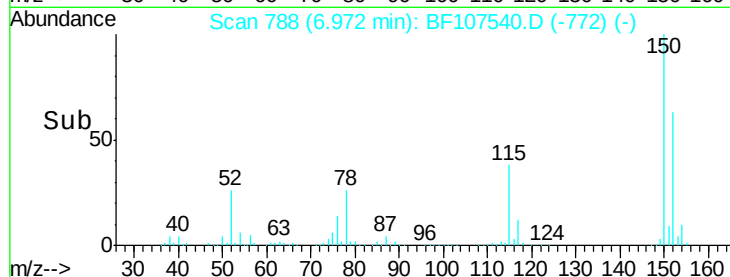
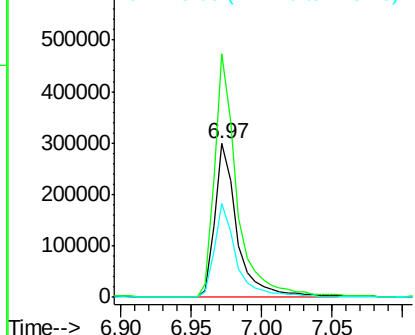
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.97 min Scan# 788
Delta R.T. -0.01 min
Lab File: BF107540.D
Acq: 20 Jul 2018 22:44

Instrument :
BNA_F
ClientSampleId :
LS-SOIL-5

Tgt Ion:152 Resp: 333369
Ion Ratio Lower Upper
152 100
150 158.1 124.6 186.8
115 60.7 50.1 75.1



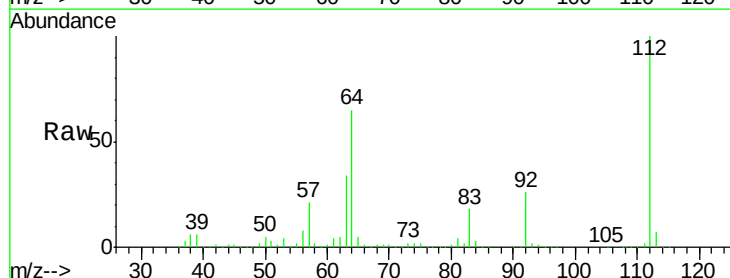
Abundance Ion 152.00 (151.70 to 152.70): E
Ion 150.00 (149.70 to 150.70): E
Ion 115.00 (114.70 to 115.70): E



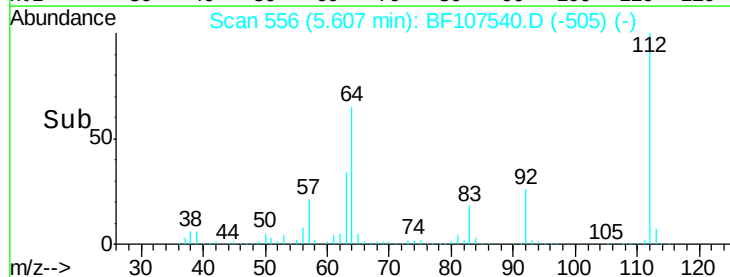
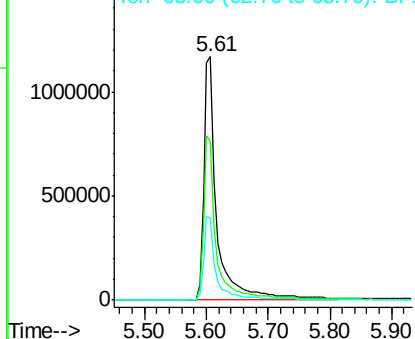
#5

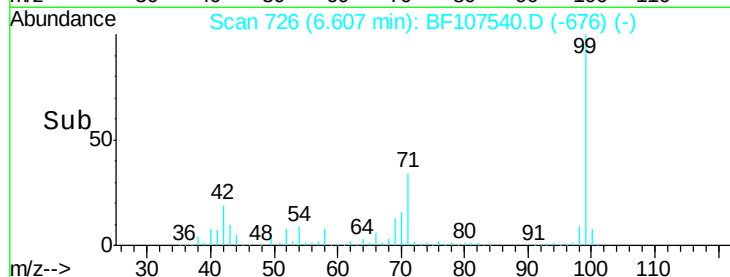
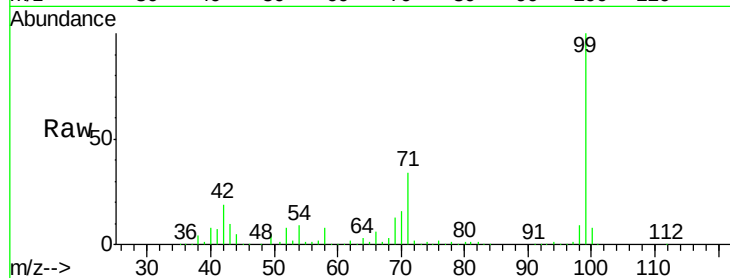
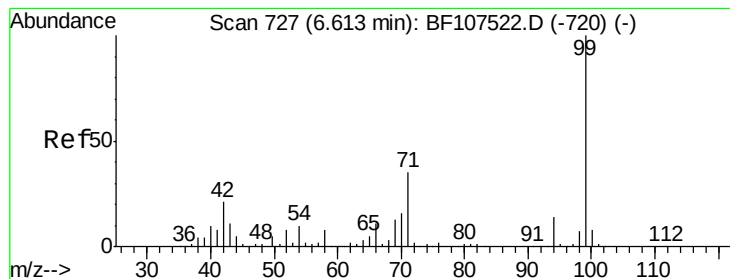
2-Fluorophenol
Concen: 84.830 ng
RT: 5.61 min Scan# 556
Delta R.T. 0.00 min
Lab File: BF107540.D
Acq: 20 Jul 2018 22:44

Tgt Ion:112 Resp: 1758899
Ion Ratio Lower Upper
112 100
64 65.3 47.9 71.9
63 34.1 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: 87.168 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

Instrument :

BNA_F

ClientSampleId :

LS-SOIL-5

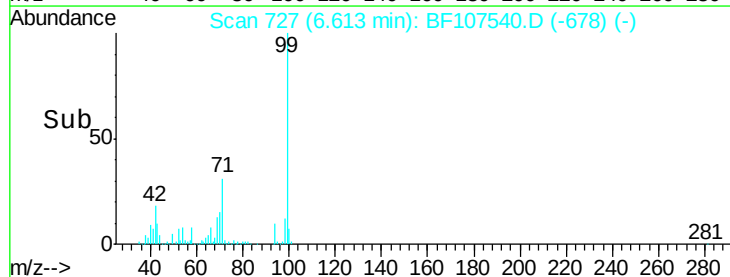
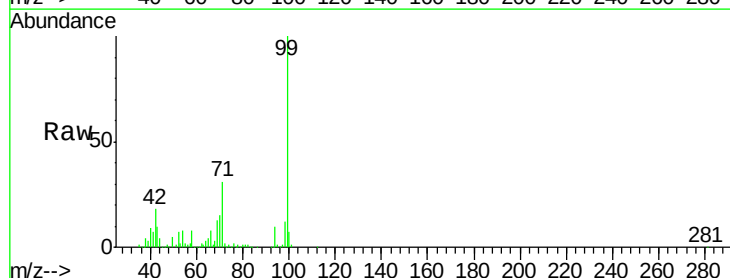
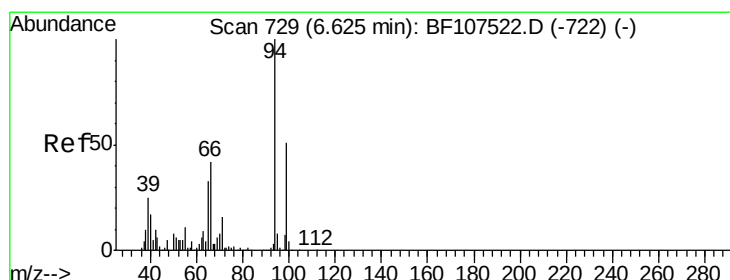
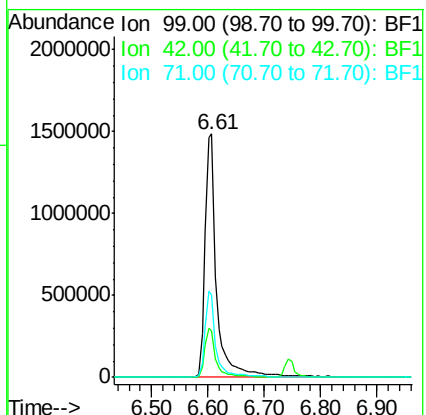
Tgt Ion: 99 Resp: 2170186

Ion Ratio Lower Upper

99 100

42 19.3 14.5 21.7

71 33.8 25.4 38.0



#10

Phenol

Concen: 2.857 ng

RT: 6.61 min Scan# 727

Delta R.T. -0.01 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

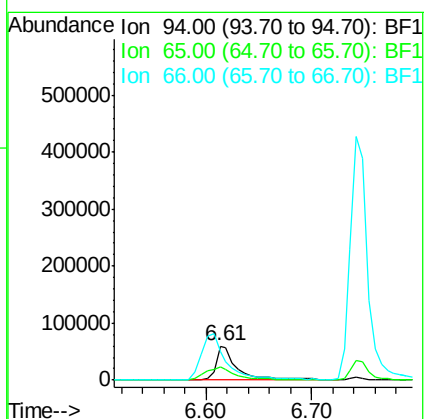
Tgt Ion: 94 Resp: 83654

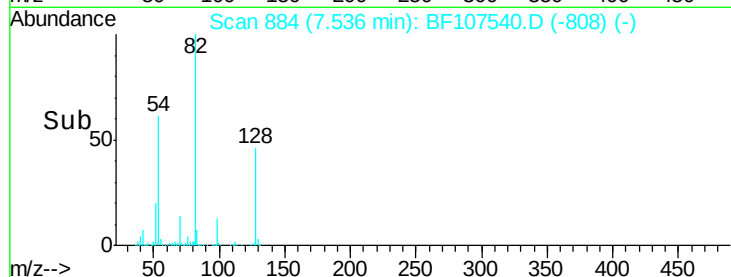
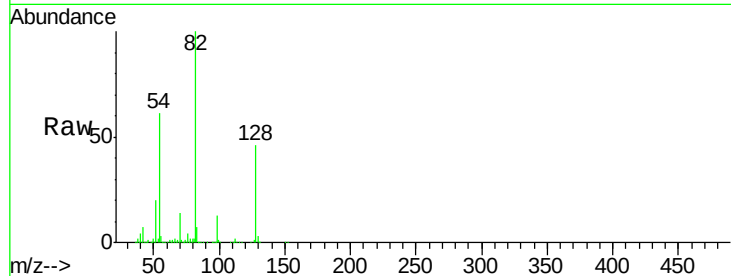
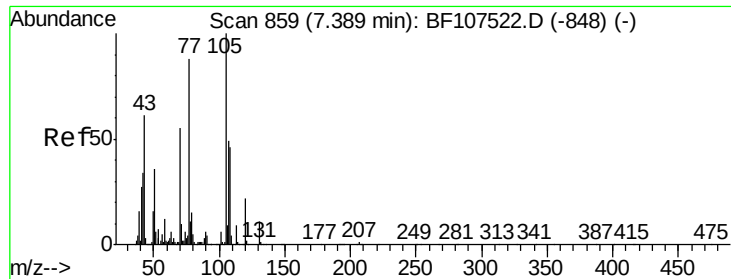
Ion Ratio Lower Upper

94 100

65 40.2 7.9 47.9

66 84.7 16.2 56.2#

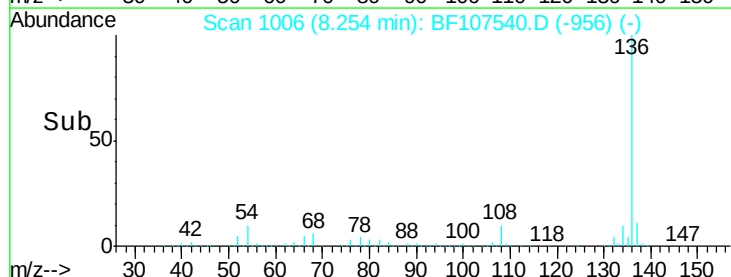
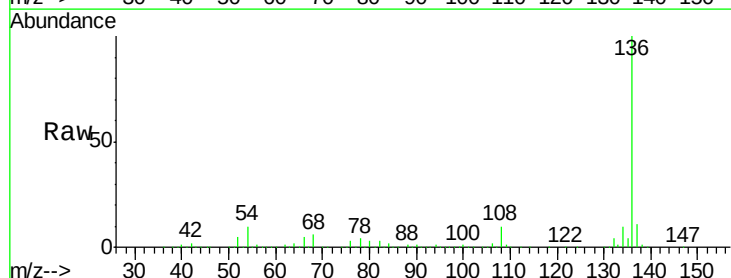
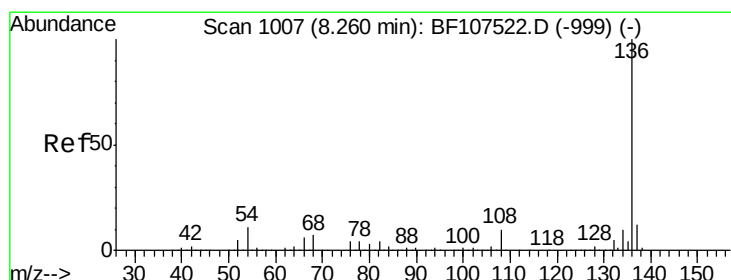
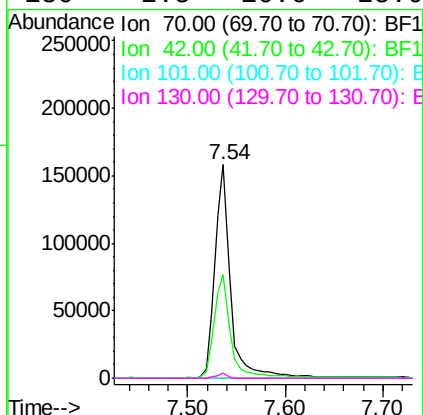




#19
n-Nitroso-di-n-propylamine
Concen: 11.028 ng
RT: 7.54 min Scan# 884
Delta R.T. 0.15 min
Lab File: BF107540.D
Acq: 20 Jul 2018 22:44

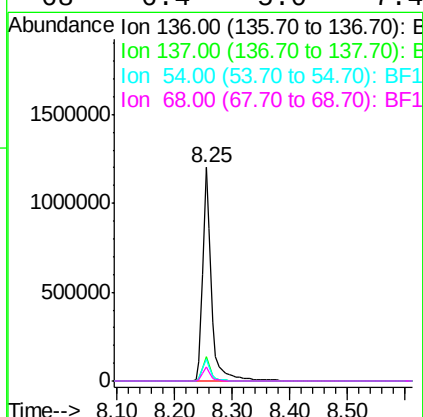
Instrument :
BNA_F
ClientSampleId :
LS-SOIL-5

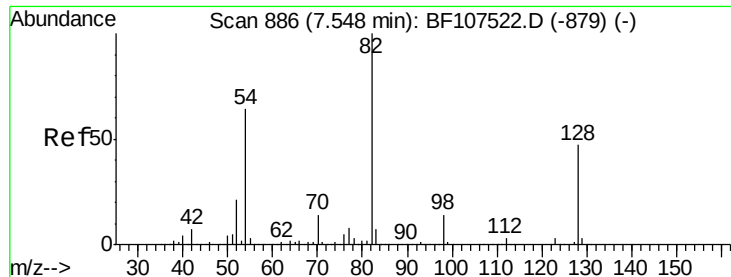
Tgt Ion: 70 Resp: 177371
Ion Ratio Lower Upper
70 100
42 48.9 47.5 71.3
101 0.0 7.4 11.2#
130 2.5 16.6 25.0#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.25 min Scan# 1006
Delta R.T. -0.01 min
Lab File: BF107540.D
Acq: 20 Jul 2018 22:44

Tgt Ion: 136 Resp: 1288717
Ion Ratio Lower Upper
136 100
137 11.2 8.9 13.3
54 10.3 6.6 9.8#
68 6.4 5.0 7.4





#23

Nitrobenzene-d5

Concen: 69.208 ng

RT: 7.54 min Scan# 884

Delta R.T. -0.01 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

Instrument :

BNA_F

ClientSampleId :

LS-SOIL-5

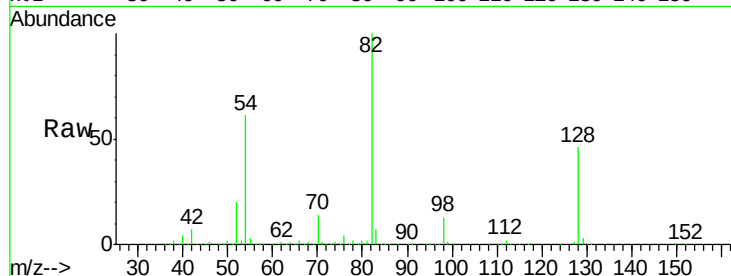
Tgt Ion: 82 Resp: 1321564

Ion Ratio Lower Upper

82 100

128 46.0 36.1 54.1

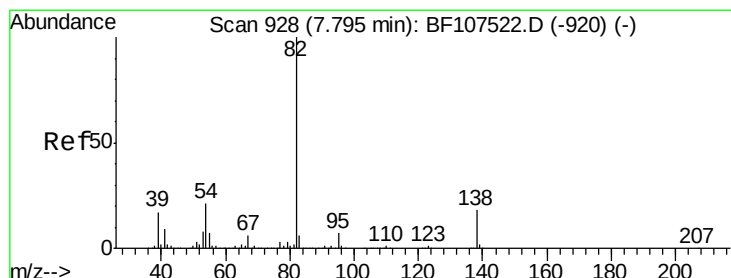
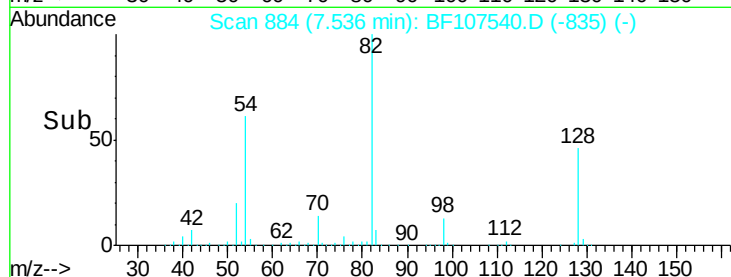
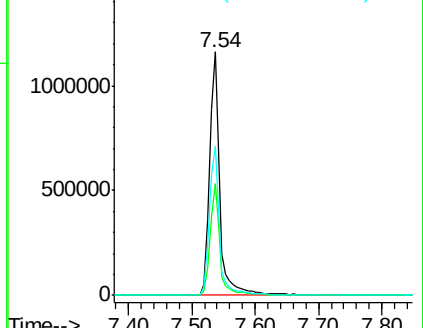
54 61.0 41.4 62.2



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: 32.413 ng

RT: 7.54 min Scan# 884

Delta R.T. -0.26 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

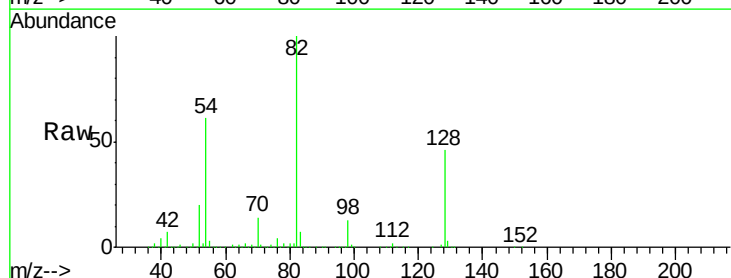
Tgt Ion: 82 Resp: 1321556

Ion Ratio Lower Upper

82 100

95 0.0 5.2 7.8#

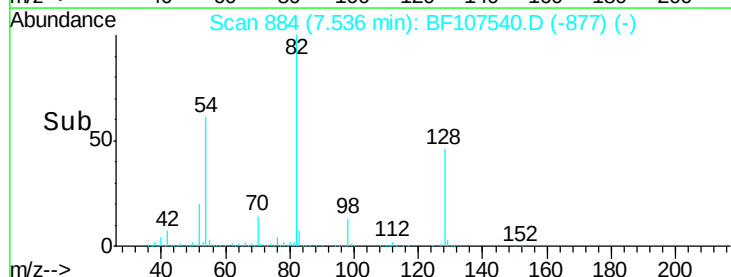
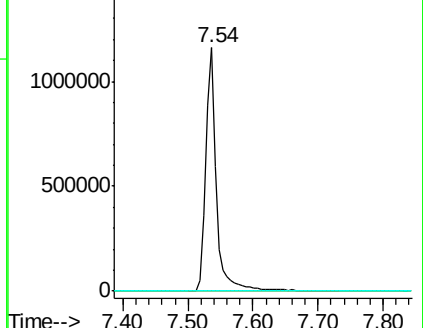
138 0.0 14.9 22.3#

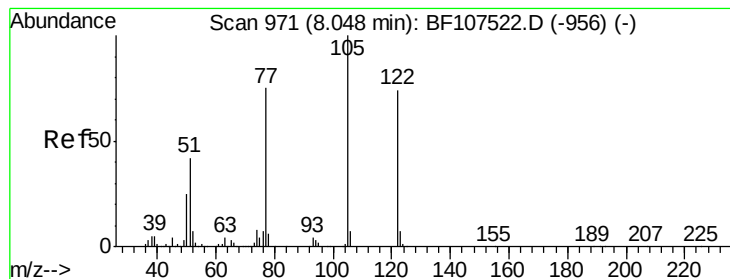


Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 95.00 (94.70 to 95.70): BF1

Ion 138.00 (137.70 to 138.70): BF1





#32

Benzoic acid

Concen: 7.908 ng

RT: 8.24 min Scan# 1003

Delta R.T. 0.19 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

Instrument :

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ClientSampleId :

LS-SOIL-5

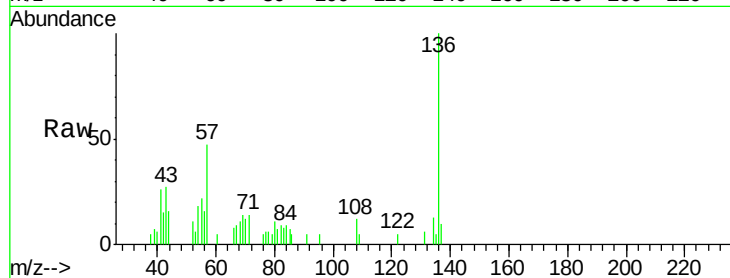
Tgt Ion:122 Resp: 125

Ion Ratio Lower Upper

122 100

105 0.0 101.1 141.1#

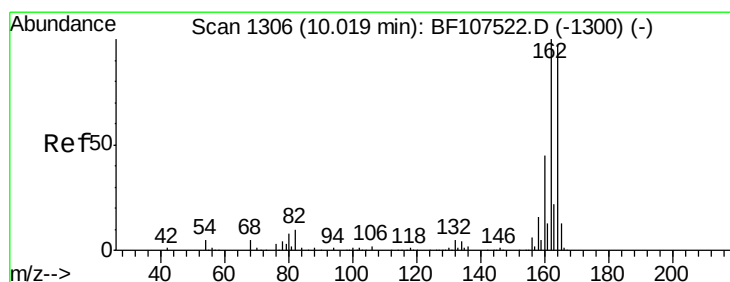
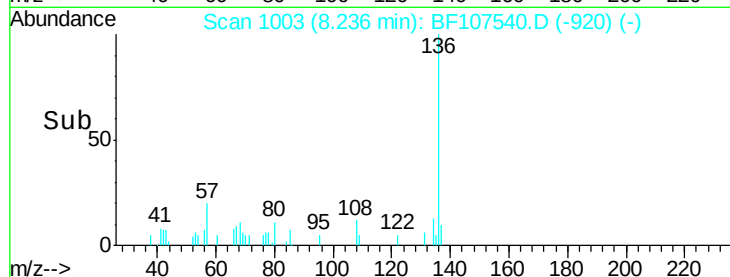
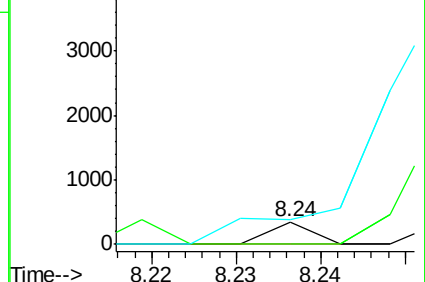
77 106.8 70.7 110.7



Abundance Ion 122.00 (121.70 to 122.70): E

Ion 105.00 (104.70 to 105.70): E

Ion 77.00 (76.70 to 77.70): BF1



#38

Acenaphthene-d10

Concen: 20.000 ng

RT: 10.01 min Scan# 1305

Delta R.T. -0.01 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

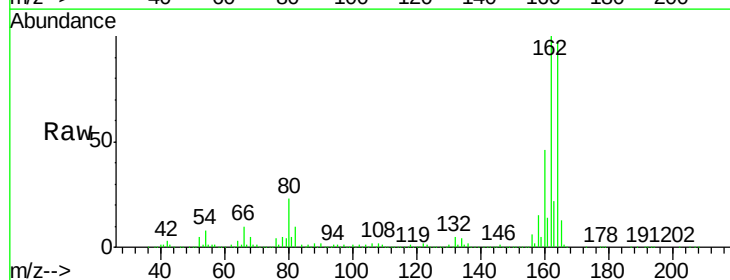
Tgt Ion:164 Resp: 560120

Ion Ratio Lower Upper

164 100

162 103.5 86.1 129.1

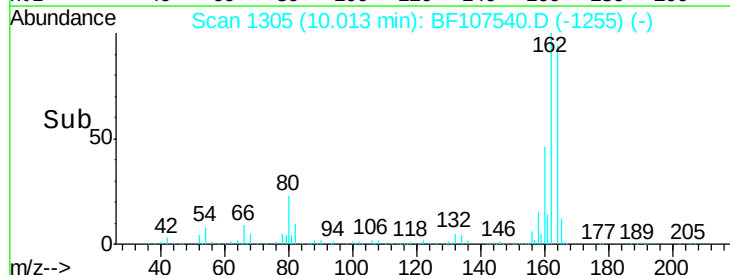
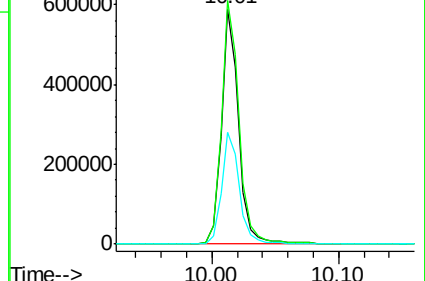
160 47.7 38.3 57.5

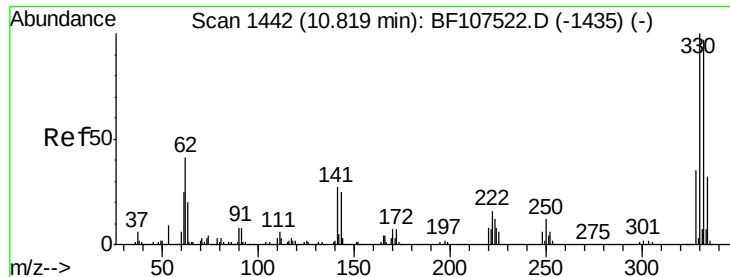


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

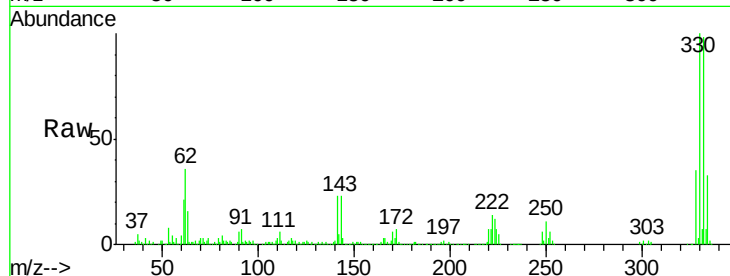




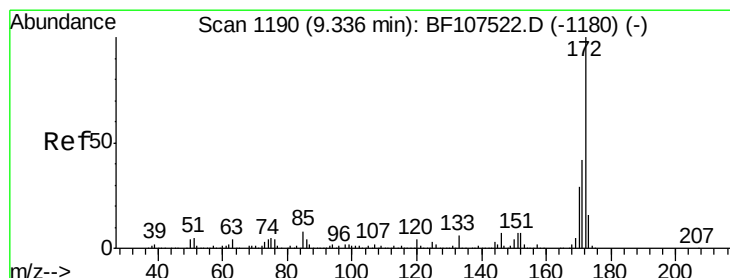
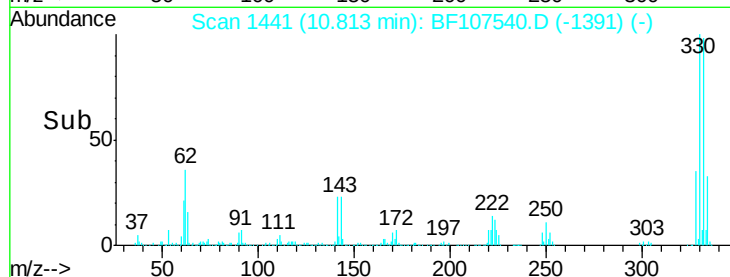
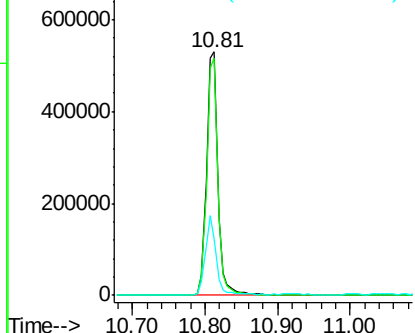
#41
 2,4,6-Tribromophenol
 Concen: 90.641 ng
 RT: 10.81 min Scan# 1441
 Delta R.T. -0.01 min
 Lab File: BF107540.D
 Acq: 20 Jul 2018 22:44

Instrument :
 BNA_F
 ClientSampleId :
 LS-SOIL-5

Tgt Ion:330 Resp: 577335
 Ion Ratio Lower Upper
 330 100
 332 95.9 77.0 115.6
 141 30.4 29.9 44.9

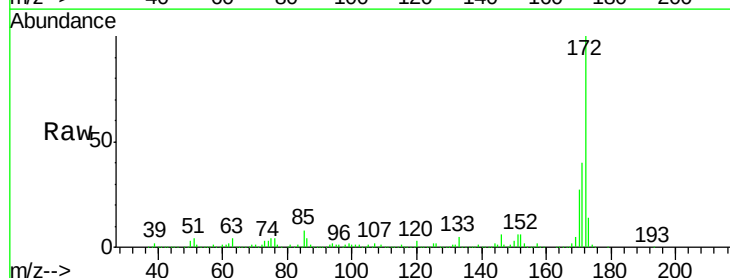


Abundance Ion 329.80 (329.50 to 330.50): E
 Ion 331.80 (331.50 to 332.50): E
 Ion 141.00 (140.70 to 141.70): E

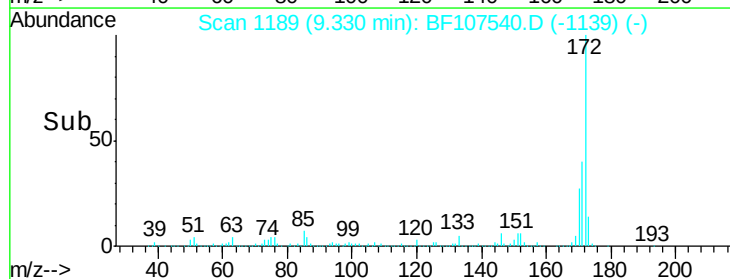
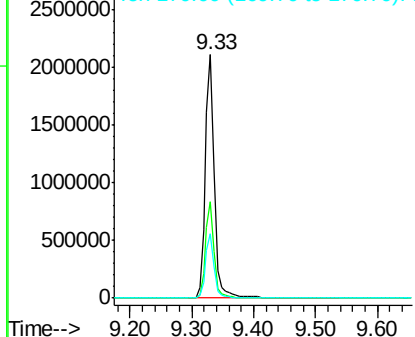


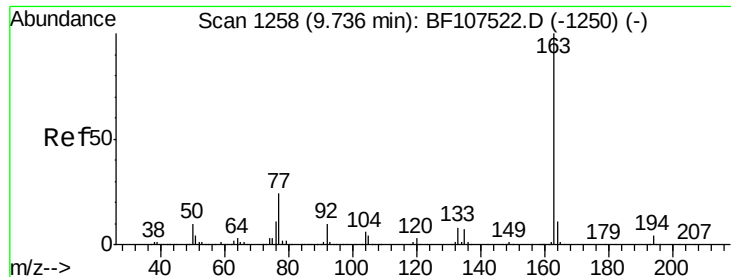
#44
 2-Fluorobiphenyl
 Concen: 60.922 ng
 RT: 9.33 min Scan# 1189
 Delta R.T. -0.01 min
 Lab File: BF107540.D
 Acq: 20 Jul 2018 22:44

Tgt Ion:172 Resp: 2160737
 Ion Ratio Lower Upper
 172 100
 171 39.8 29.7 44.5
 170 26.6 19.6 29.4



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: 3.795 ng

RT: 9.72 min Scan# 1255

Delta R.T. -0.02 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

Instrument :

BNA_F

ClientSampleId :

LS-SOIL-5

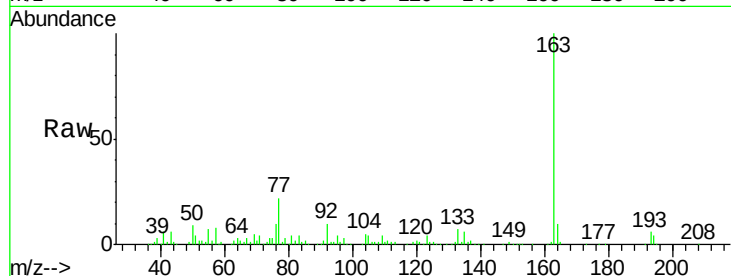
Tgt Ion:163 Resp: 160191

Ion Ratio Lower Upper

163 100

194 4.2 2.7 4.1#

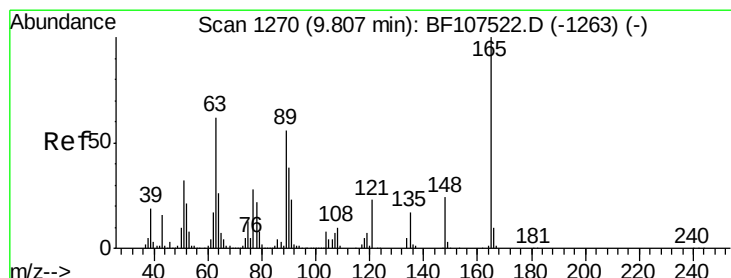
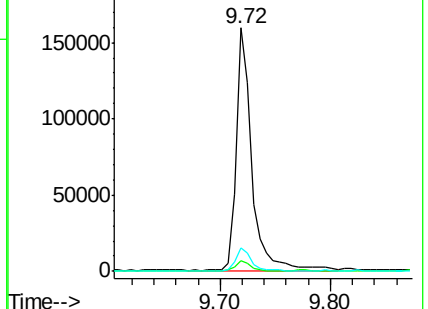
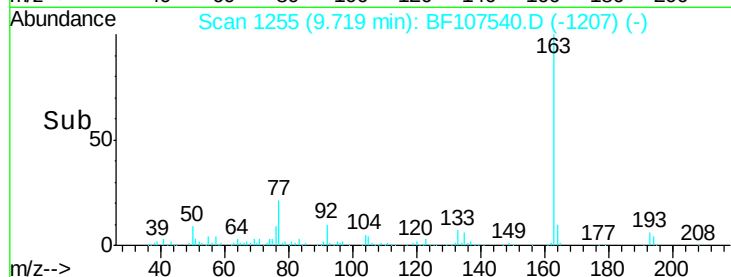
164 9.9 8.2 12.2



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: 8.670 ng

RT: 10.01 min Scan# 1305

Delta R.T. 0.21 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

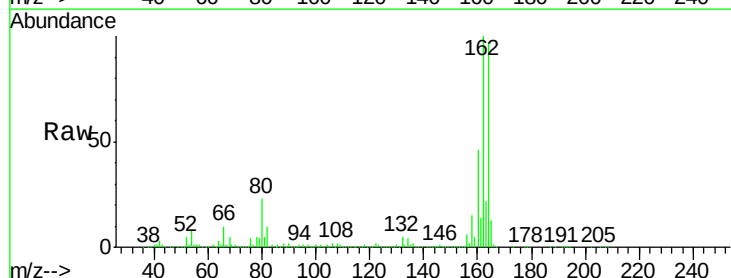
Tgt Ion:165 Resp: 72664

Ion Ratio Lower Upper

165 100

63 1.6 44.7 67.1#

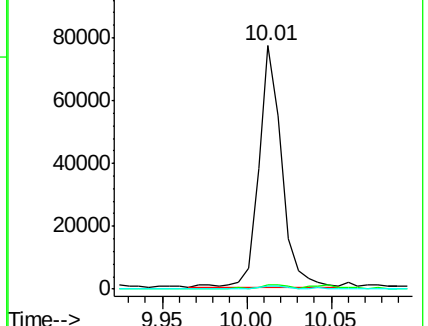
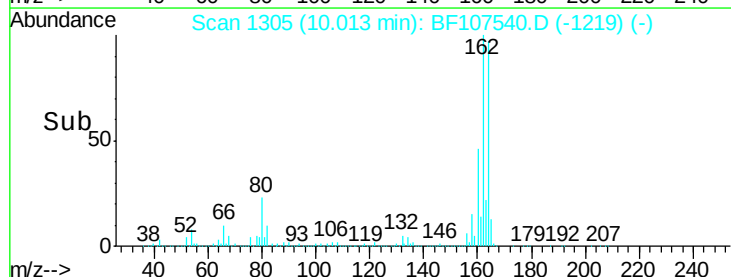
89 1.3 44.0 66.0#

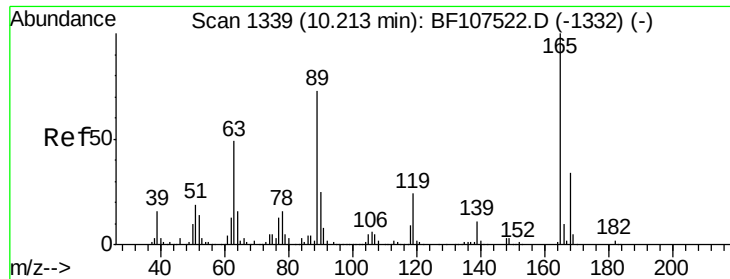


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

Ion 89.00 (88.70 to 89.70): BF1

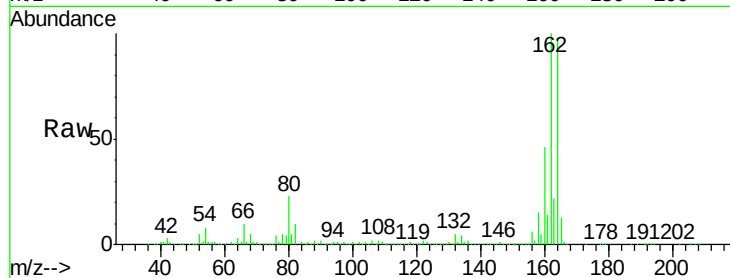




#56
 2,4-Dinitrotoluene
 Concen: 7.182 ng
 RT: 10.01 min Scan# 1305
 Delta R.T. -0.20 min
 Lab File: BF107540.D
 Acq: 20 Jul 2018 22:44

Instrument :
 BNA_F
 ClientSampleId :
 LS-SOIL-5

Tgt Ion	Ratio	Lower	Upper
165	100		
63	1.6	36.4	54.6#
89	1.3	57.8	86.6#
182	0.0	1.6	2.4#

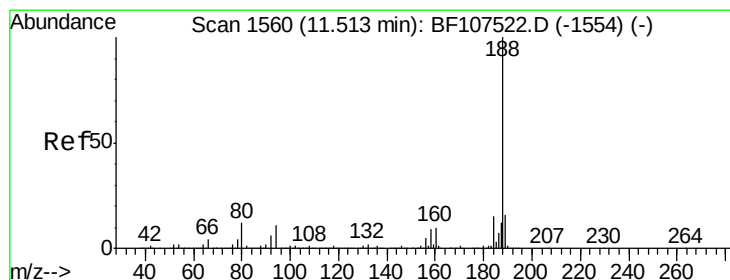
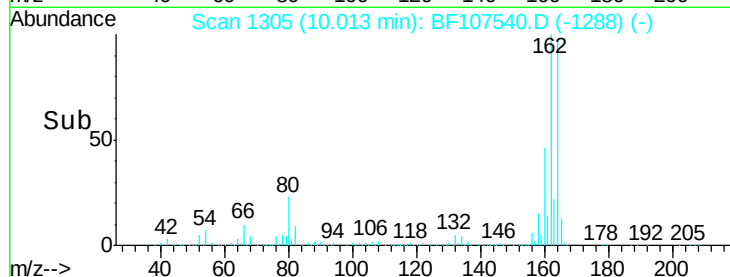
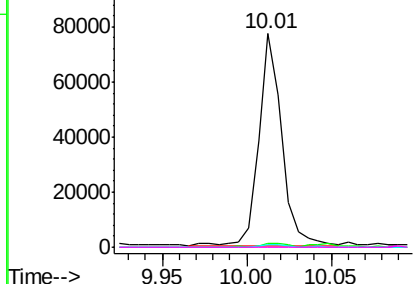


Abundance Ion 165.00 (164.70 to 165.70): E

Ion 63.00 (62.70 to 63.70): BF1

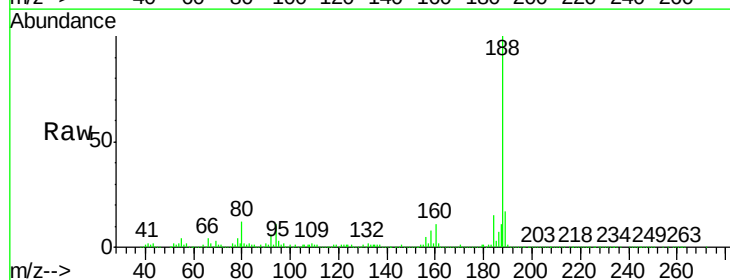
Ion 89.00 (88.70 to 89.70): BF1

Ion 182.00 (181.70 to 182.70): E



#63
 Phenanthrene-d10
 Concen: 20.000 ng
 RT: 11.51 min Scan# 1559
 Delta R.T. -0.01 min
 Lab File: BF107540.D
 Acq: 20 Jul 2018 22:44

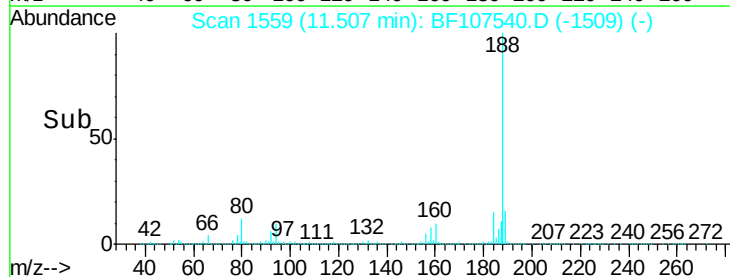
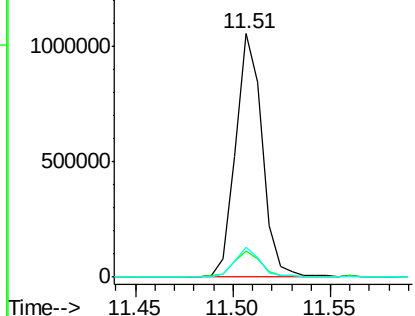
Tgt Ion	Ratio	Lower	Upper
188	100		
94	10.7	8.5	12.7
80	12.0	9.2	13.8

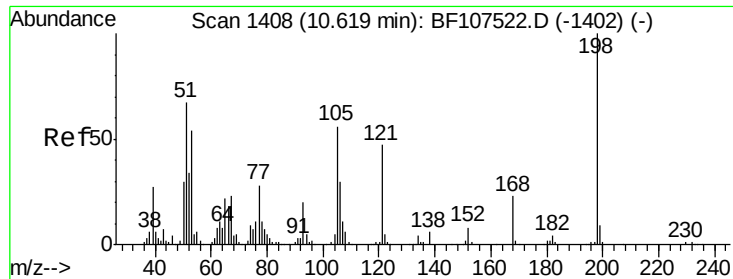


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BF1

Ion 80.00 (79.70 to 80.70): BF1

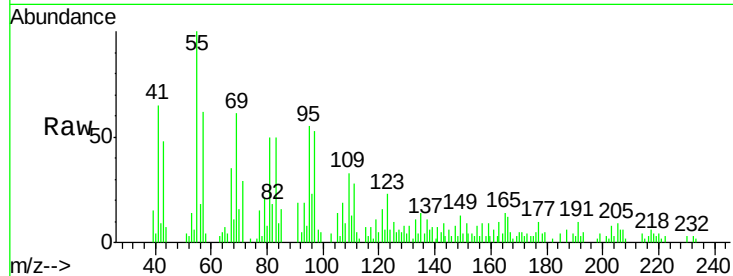




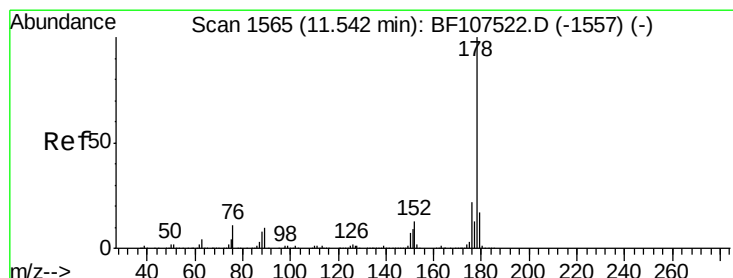
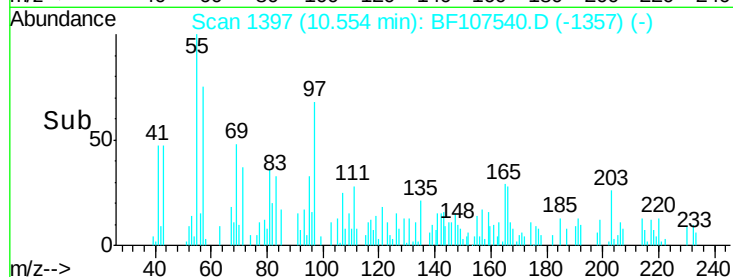
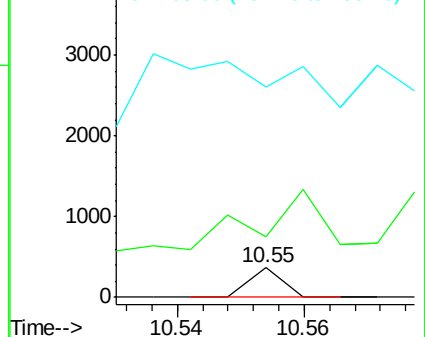
#64
 4,6-Dinitro-2-methylphenol
 Concen: 8.703 ng
 RT: 10.55 min Scan# 1397
 Delta R.T. -0.06 min
 Lab File: BF107540.D
 Acq: 20 Jul 2018 22:44

Instrument :
 BNA_F
 ClientSampleId :
 LS-SOIL-5

Tgt Ion:198 Resp: 130
 Ion Ratio Lower Upper
 198 100
 51 203.0 37.7 77.7#
 105 707.6 36.3 76.3#

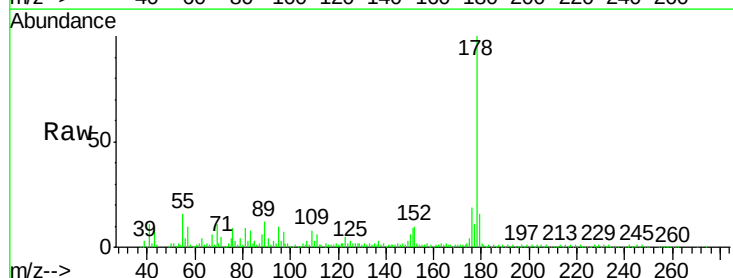


Abundance Ion 198.00 (197.70 to 198.70): E
 Ion 51.00 (50.70 to 51.70): BF1
 Ion 105.00 (104.70 to 105.70): E

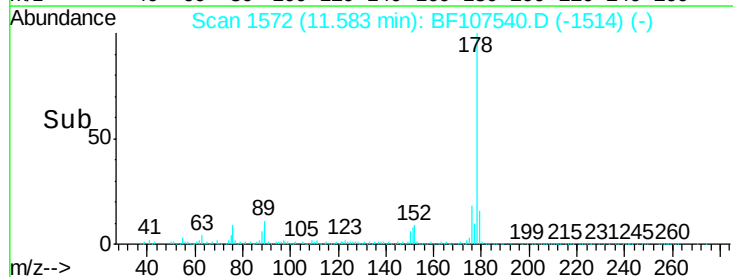
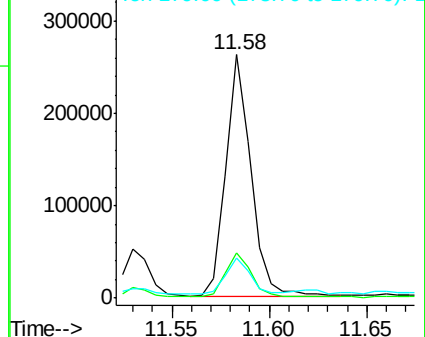


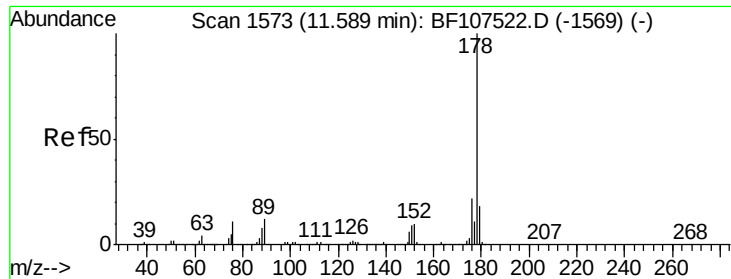
#70
 Phenanthrene
 Concen: 4.785 ng
 RT: 11.58 min Scan# 1572
 Delta R.T. 0.04 min
 Lab File: BF107540.D
 Acq: 20 Jul 2018 22:44

Tgt Ion:178 Resp: 232210
 Ion Ratio Lower Upper
 178 100
 176 18.8 15.8 23.8
 179 16.4 13.0 19.6



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: 4.752 ng

RT: 11.58 min Scan# 1572

Delta R.T. -0.01 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

Instrument :

BNA_F

ClientSampleId :

LS-SOIL-5

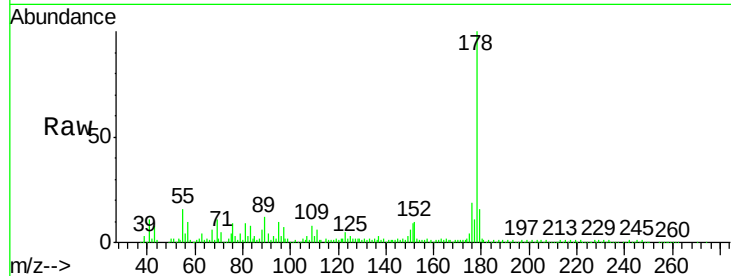
Tgt Ion:178 Resp: 232210

Ion Ratio Lower Upper

178 100

176 18.8 15.4 23.2

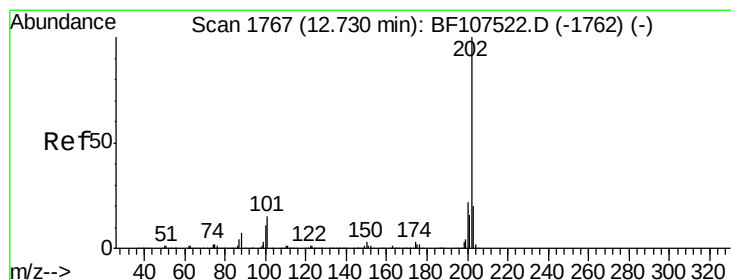
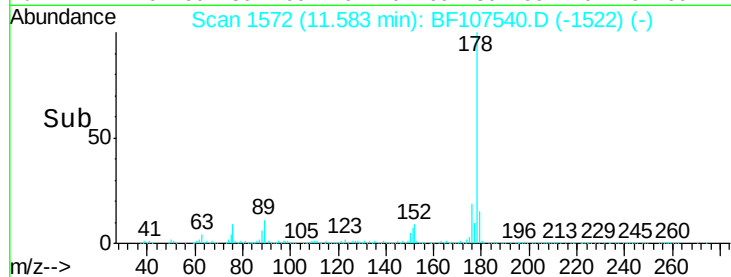
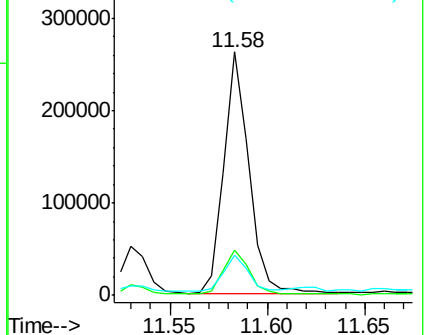
179 16.4 12.6 19.0



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



#74

Fluoranthene

Concen: 4.492 ng

RT: 12.72 min Scan# 1766

Delta R.T. -0.01 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

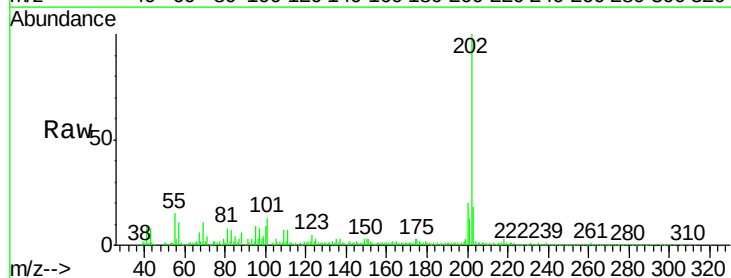
Tgt Ion:202 Resp: 233907

Ion Ratio Lower Upper

202 100

101 12.6 0.0 34.1

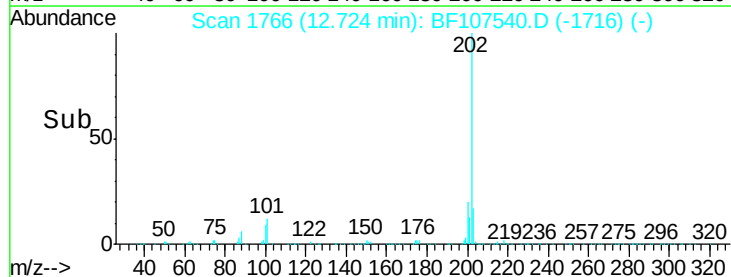
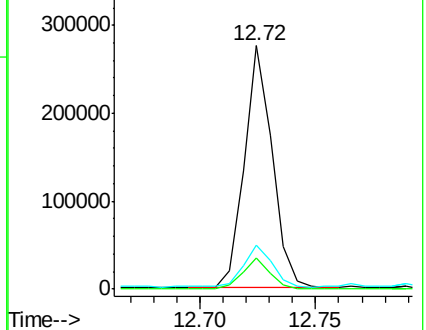
203 18.0 0.0 38.1

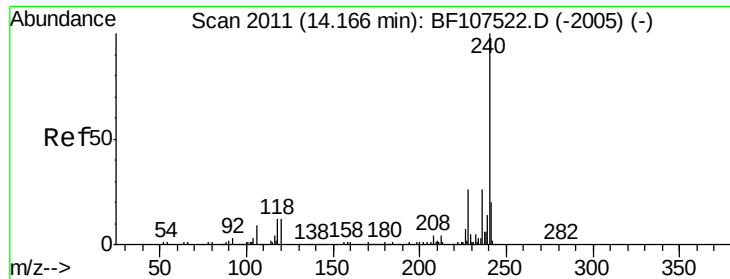


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#75

Chrysene-d12

Concen: 20.000 ng

RT: 14.15 min Scan# 2009

Delta R.T. -0.01 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

Instrument :

BNA_F

ClientSampleId :

LS-SOIL-5

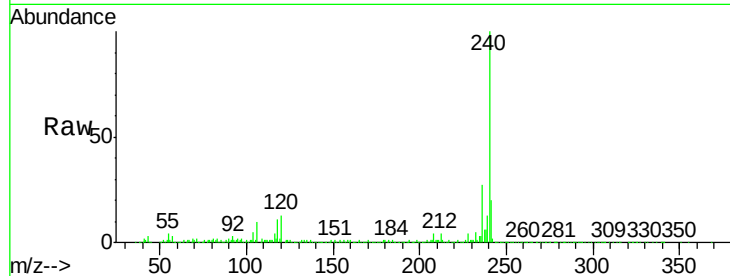
Tgt Ion:240 Resp: 682708

Ion Ratio Lower Upper

240 100

120 13.0 9.5 14.3

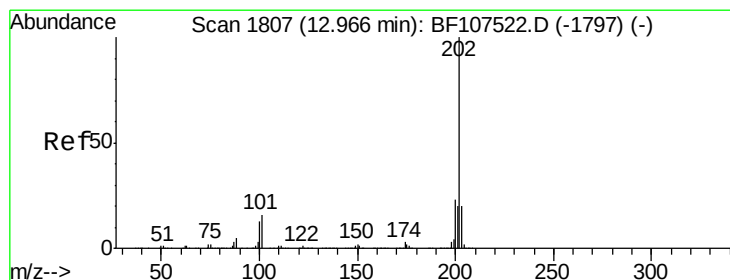
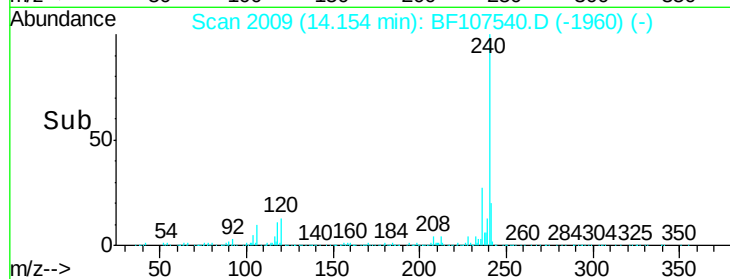
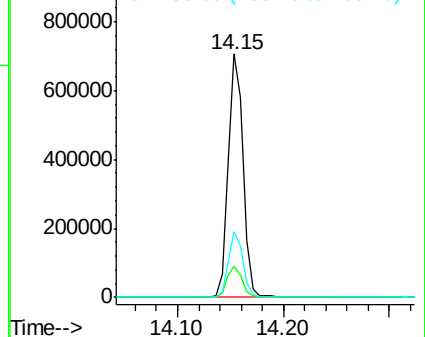
236 26.8 20.7 31.1



Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E



#77

Pyrene

Concen: 4.985 ng

RT: 12.95 min Scan# 1805

Delta R.T. -0.01 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

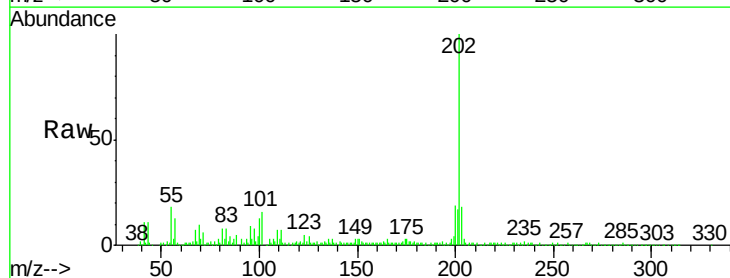
Tgt Ion:202 Resp: 232786

Ion Ratio Lower Upper

202 100

200 19.3 17.4 26.2

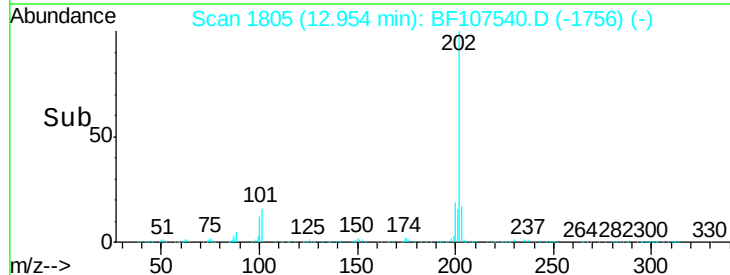
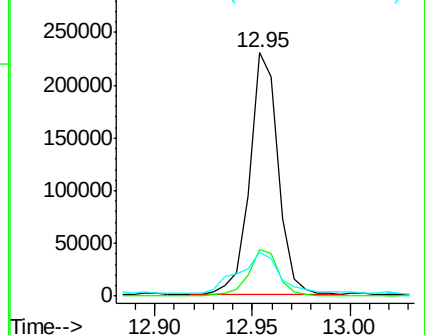
203 18.1 14.3 21.5

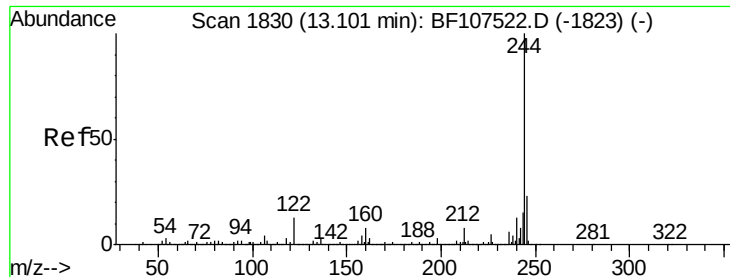


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 66.041 ng

RT: 13.09 min Scan# 1829

Delta R.T. -0.01 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

Instrument :

BNA_F

ClientSampleId :

LS-SOIL-5

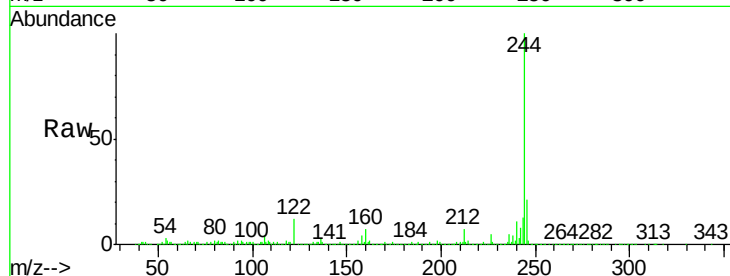
Tgt Ion:244 Resp: 1761134

Ion Ratio Lower Upper

244 100

212 7.2 5.4 8.0

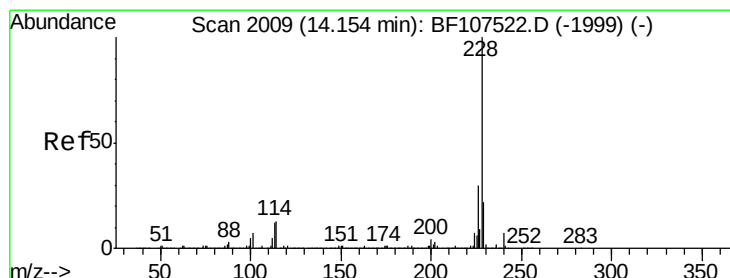
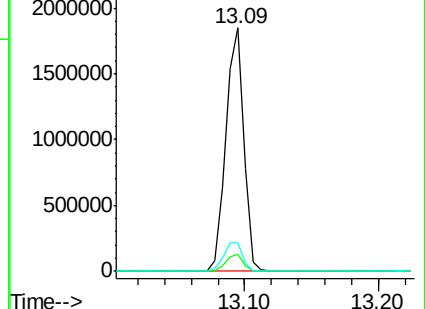
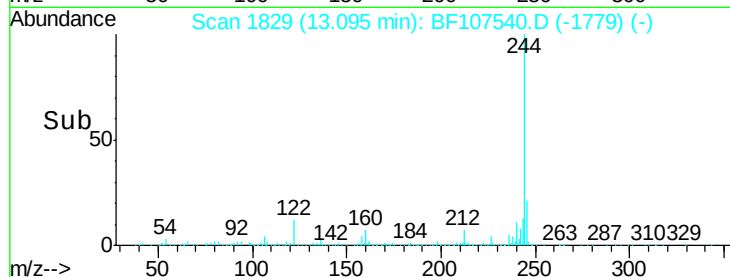
122 11.9 11.0 16.4



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: 2.267 ng

RT: 14.14 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

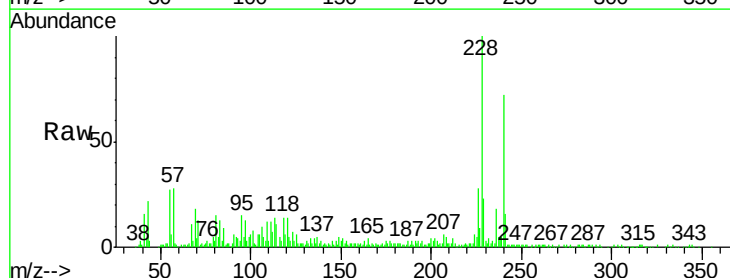
Tgt Ion:228 Resp: 90698

Ion Ratio Lower Upper

228 100

226 28.0 22.6 33.8

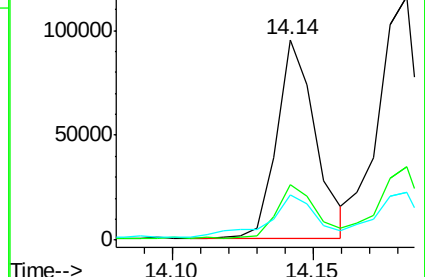
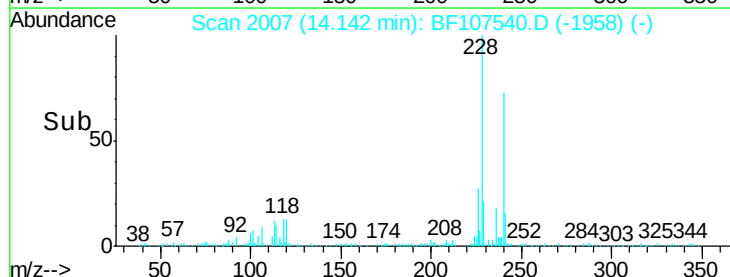
229 22.7 15.8 23.6

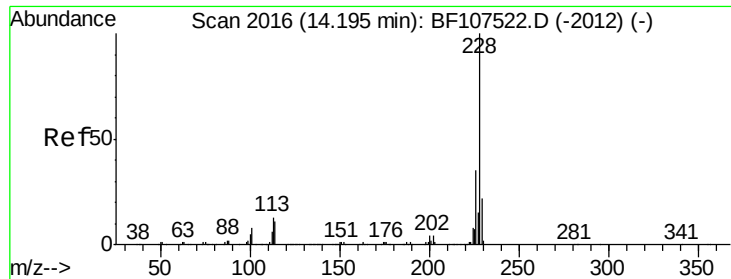


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 3.008 ng

RT: 14.18 min Scan# 2014

Delta R.T. -0.01 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

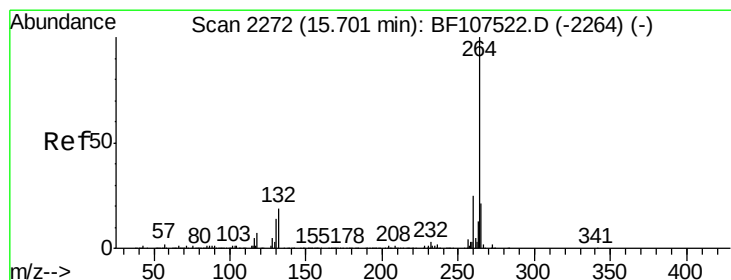
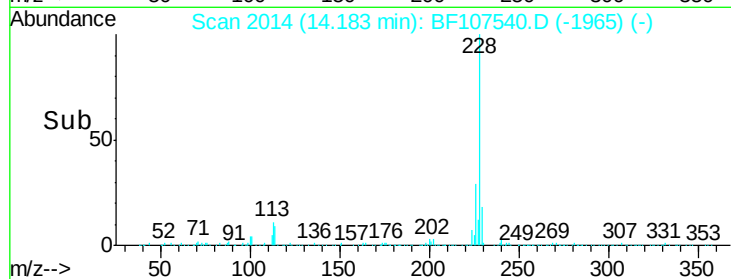
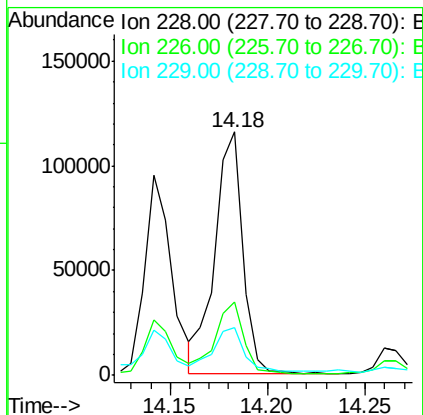
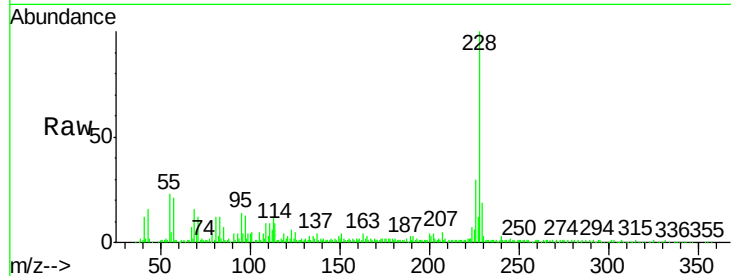
Instrument :

BNA_F

ClientSampleId :

LS-SOIL-5

Tgt Ion:	228	Resp:	115617
Ion	Ratio	Lower	Upper
228	100		
226	30.0	25.0	37.6
229	19.5	16.2	24.4



#86

Perylene-d12

Concen: 20.000 ng

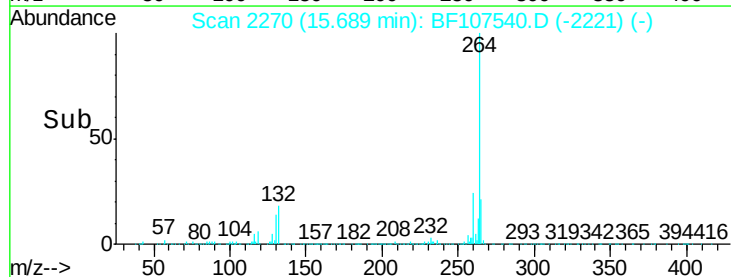
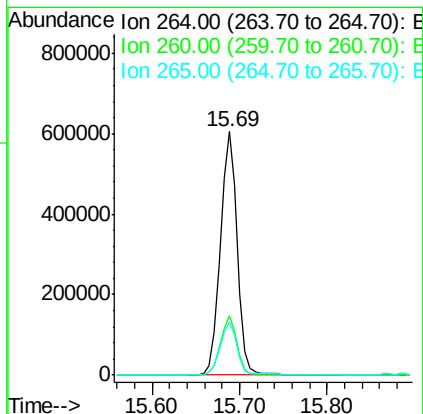
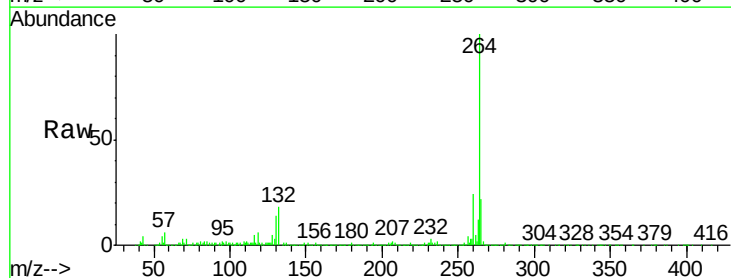
RT: 15.69 min Scan# 2270

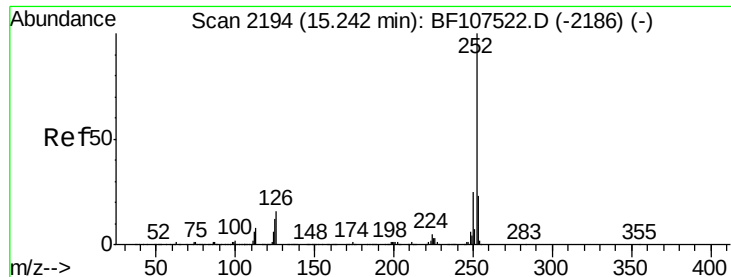
Delta R.T. -0.01 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

Tgt Ion:	264	Resp:	809442
Ion	Ratio	Lower	Upper
264	100		
260	24.2	19.2	28.8
265	21.6	17.5	26.3





#87

Benzo(b)fluoranthene

Concen: 2.736 ng

RT: 15.23 min Scan# 2192

Delta R.T. -0.01 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

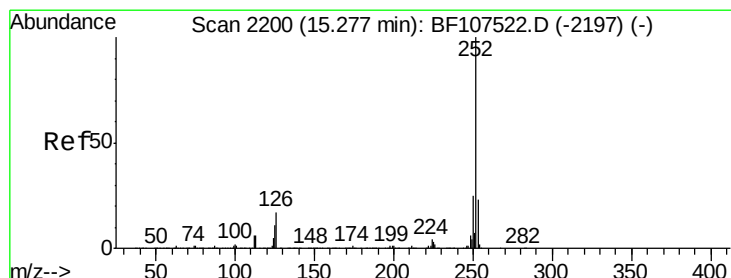
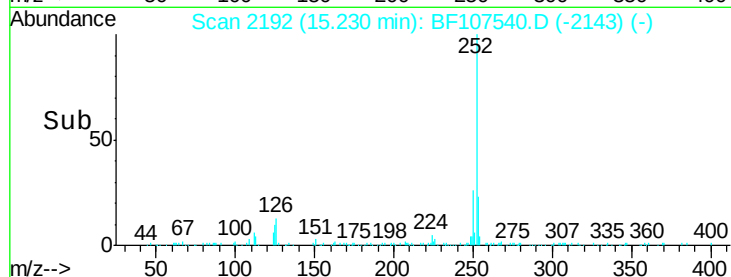
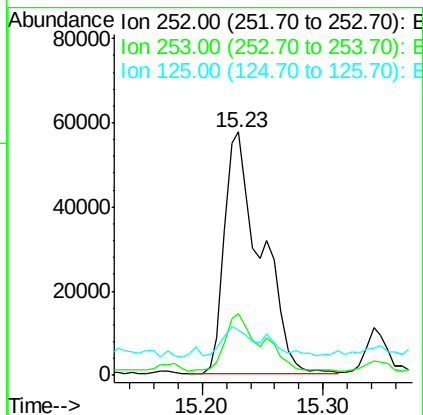
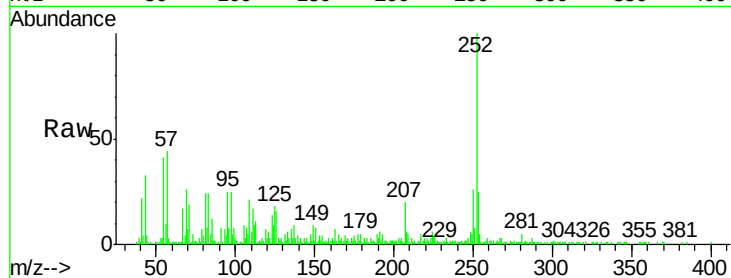
Instrument :

BNA_F

ClientSampleId :

LS-SOIL-5

Tgt Ion:	252	Resp:	121214
Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.0	25.6
125	18.4	9.0	13.6#



#88

Benzo(k)fluoranthene

Concen: 2.793 ng

RT: 15.23 min Scan# 2192

Delta R.T. -0.05 min

Lab File: BF107540.D

Acq: 20 Jul 2018 22:44

Tgt Ion:	252	Resp:	121214
Ion	Ratio	Lower	Upper
252	100		
253	25.4	17.9	26.9
125	18.4	10.2	15.2#

