

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072418\
 Data File : BF107629.D
 Acq On : 24 Jul 2018 19:52
 Operator : JU/SJ
 Sample : J4098-02
 Misc :
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 GL-TOPSOIL-02

Quant Time: Jul 25 01:03:59 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	254926	20.00	ng	-0.01
21) Naphthalene-d8	8.25	136	941642	20.00	ng	-0.01
38) Acenaphthene-d10	10.01	164	356622	20.00	ng	-0.01
63) Phenanthrene-d10	11.50	188	639028	20.00	ng	-0.01
75) Chrysene-d12	14.15	240	471158	20.00	ng	-0.01
86) Perylene-d12	15.69	264	371064	20.00	ng	-0.01

System Monitoring Compounds

5) 2-Fluorophenol	5.61	112	1360960	85.84	ng	0.00
7) Phenol-d6	6.61	99	1664756	87.44	ng	0.00
23) Nitrobenzene-d5	7.53	82	997233	71.47	ng	-0.02
41) 2,4,6-Tribromophenol	10.81	330	345798	85.27	ng	-0.01
44) 2-Fluorobiphenyl	9.32	172	1509242	68.68	ng	-0.01
78) Terphenyl-d14	13.09	244	1187895	64.55	ng	-0.01

Target Compounds

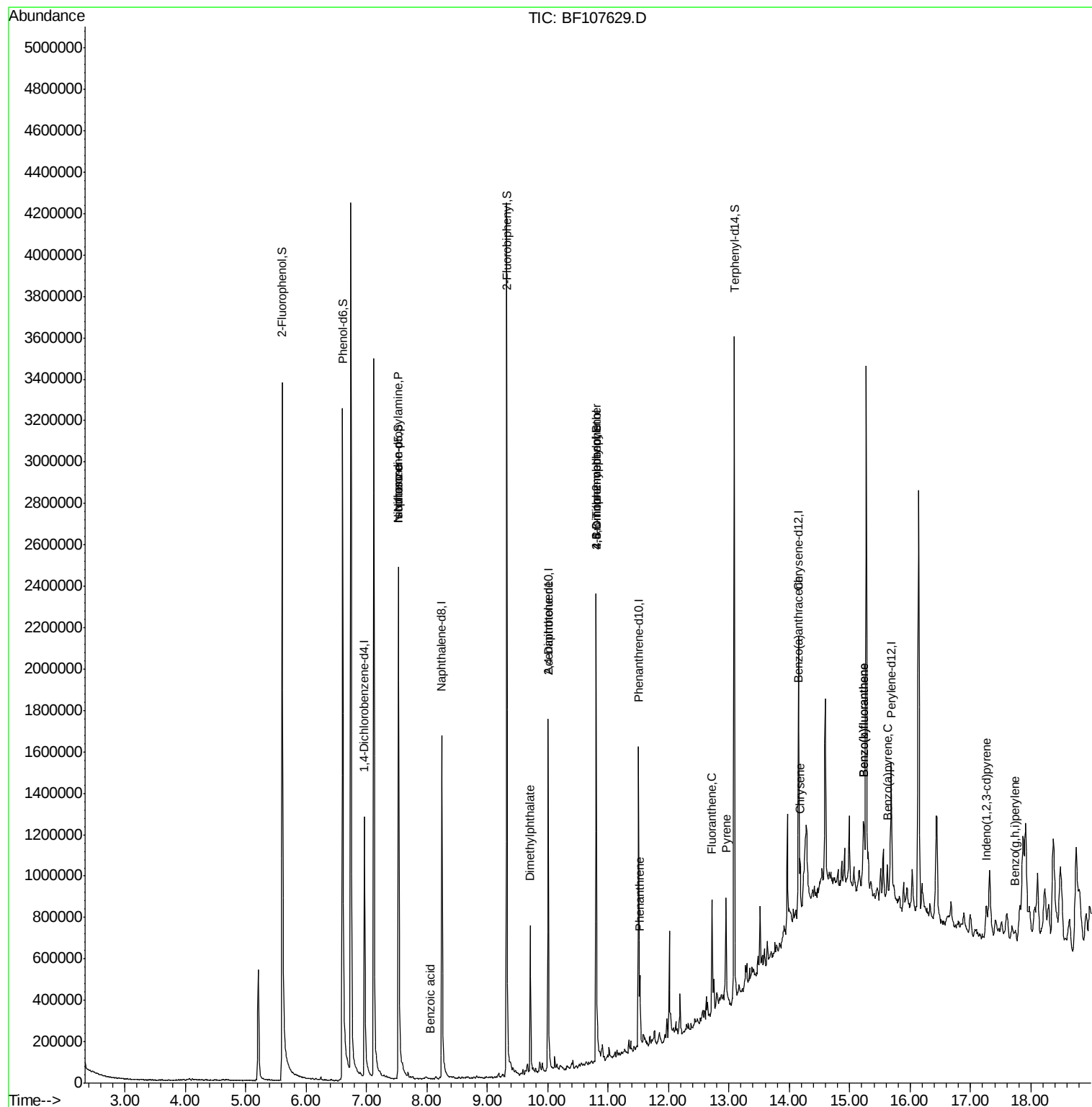
						Qvalue
19) n-Nitroso-di-n-propylamine	7.53	70	133216	10.831	ng	# 79
25) Isophorone	7.53	82	997226	33.473	ng	# 64
32) Benzoic acid	8.06	122	207	7.919	ng	# 81
49) Dimethylphthalate	9.71	163	280533	10.438	ng	99
56) 2,4-Dinitrotoluene	10.01	165	46577	7.231	ng	# 23
64) 4,6-Dinitro-2-methylphenol	10.80	198	468	8.805	ng	# 1
66) 4-Bromophenyl-phenylether	10.80	248	20504	2.726	ng	# 1
70) Phenanthrene	11.52	178	85762	2.754	ng	98
73) Di-n-butylphthalate	12.05	149	5351	Below Cal		# 82
74) Fluoranthene	12.72	202	254901	7.628	ng	98
77) Pyrene	12.95	202	233238	7.237	ng	97
80) Benzo(a)anthracene	14.14	228	119112	4.314	ng	97
81) 3,3'-Dichlorobenzidine	14.10	252	646	Below Cal		# 25
82) Chrysene	14.18	228	122246	4.609	ng	98
85) Indeno(1,2,3-cd)pyrene	17.26	276	55129	2.452	ng	# 92
87) Benzo(b)fluoranthene	15.23	252	183789	9.050	ng	# 82
88) Benzo(k)fluoranthene	15.23	252	183789	9.237	ng	# 85
89) Benzo(a)pyrene	15.62	252	90129	4.852	ng	# 87
91) Benzo(g,h,i)perylene	17.75	276	56158	3.545	ng	# 92

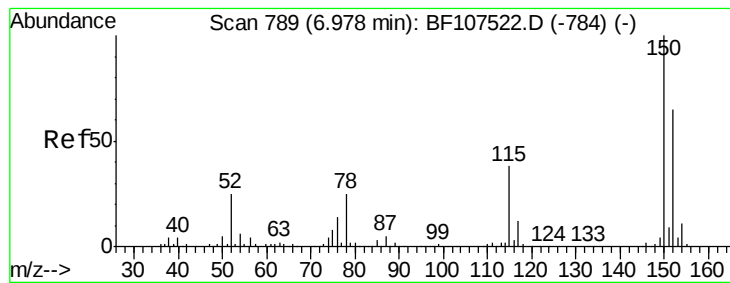
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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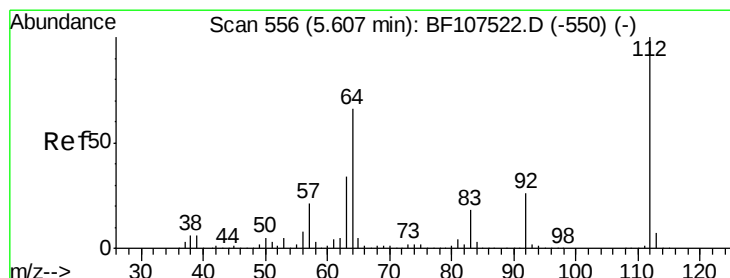
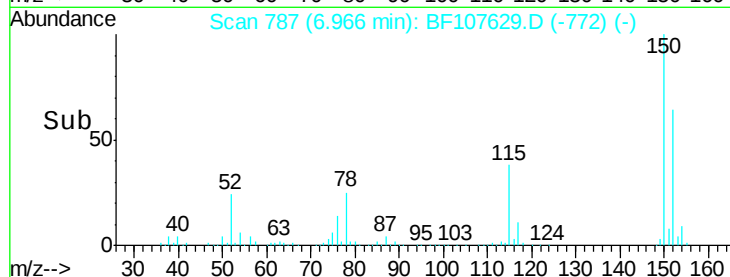
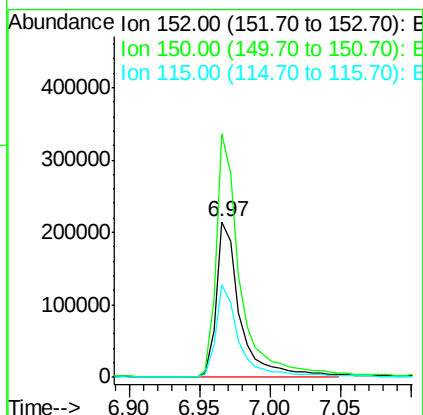
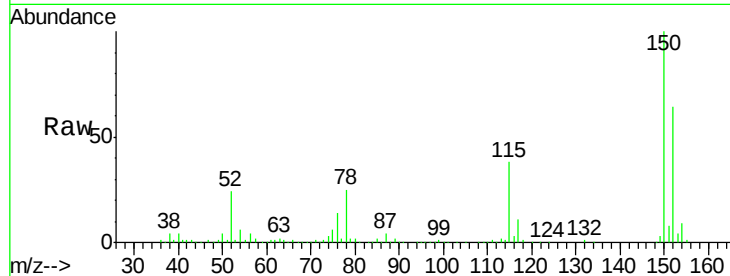




#1
 1,4-Dichlorobenzene-d4
 Concen: 20.000 ng
 RT: 6.97 min Scan# 787
 Delta R.T. -0.01 min
 Lab File: BF107629.D
 Acq: 24 Jul 2018 19:52

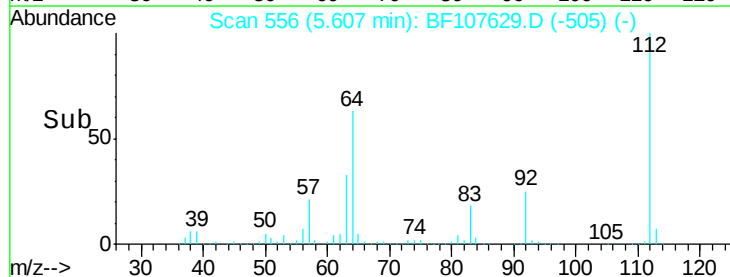
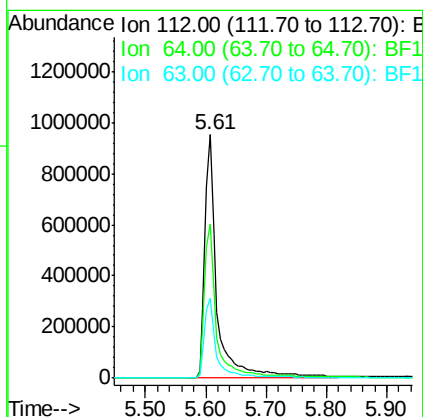
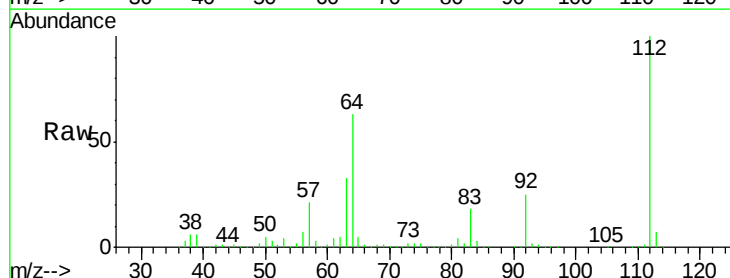
Instrument :
 BNA_F
 ClientSampleId :
 GL-TOPSOIL-02

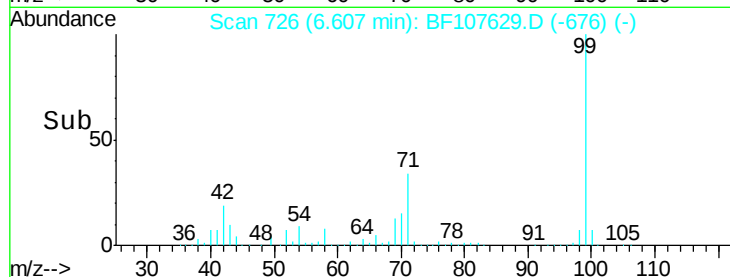
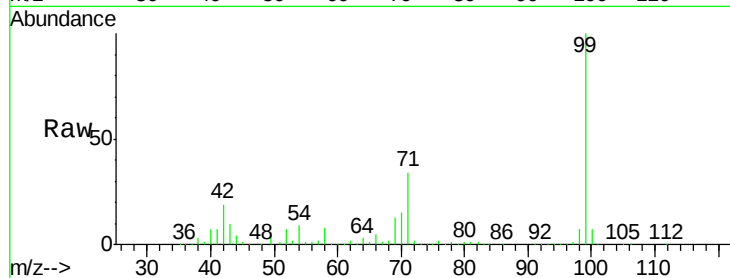
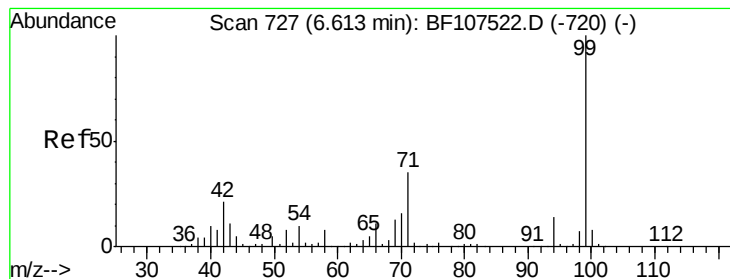
Tgt Ion:152 Resp: 254926
 Ion Ratio Lower Upper
 152 100
 150 156.8 124.6 186.8
 115 59.7 50.1 75.1



#5
 2-Fluorophenol
 Concen: 85.835 ng
 RT: 5.61 min Scan# 556
 Delta R.T. 0.00 min
 Lab File: BF107629.D
 Acq: 24 Jul 2018 19:52

Tgt Ion:112 Resp: 1360960
 Ion Ratio Lower Upper
 112 100
 64 63.3 47.9 71.9
 63 32.7 23.7 35.5





#7

Phenol-d6

Concen: 87.442 ng

RT: 6.61 min Scan# 726

Delta R.T. -0.01 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-02

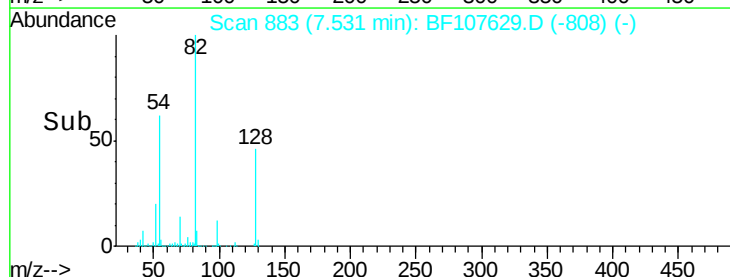
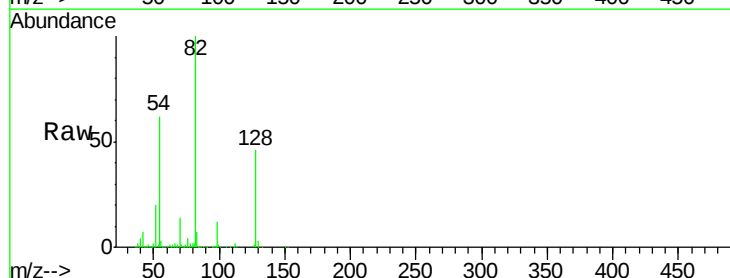
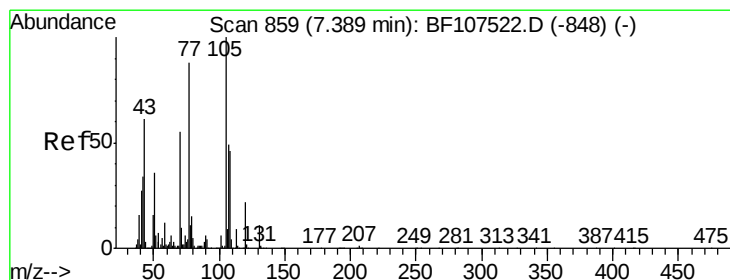
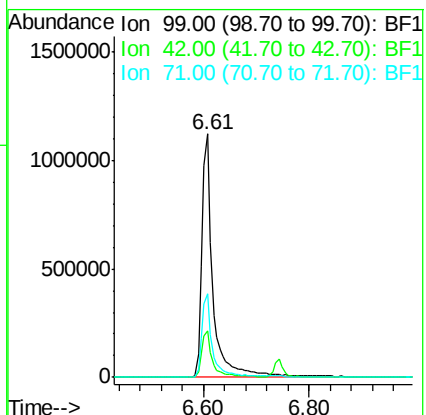
Tgt Ion: 99 Resp: 1664756

Ion Ratio Lower Upper

99 100

42 19.2 14.5 21.7

71 34.2 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 10.831 ng

RT: 7.53 min Scan# 883

Delta R.T. 0.14 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

Tgt Ion: 70 Resp: 133216

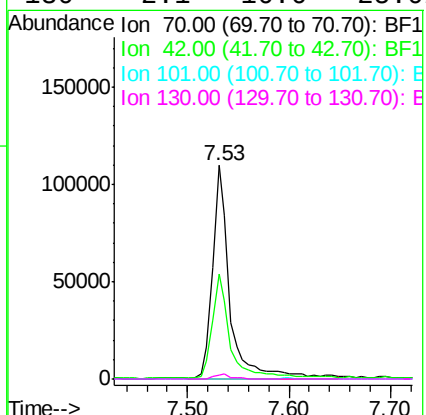
Ion Ratio Lower Upper

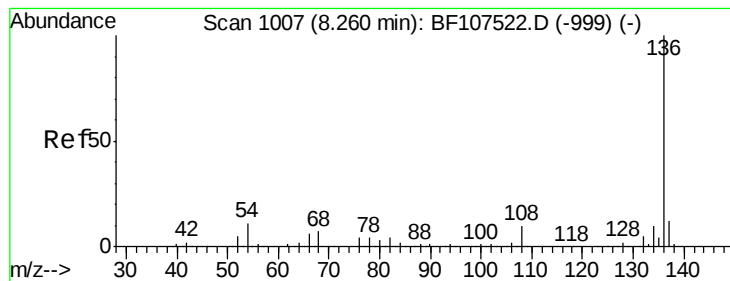
70 100

42 49.2 47.5 71.3

101 0.0 7.4 11.2#

130 2.1 16.6 25.0#





#21

Naphthalene-d8

Concen: 20.000 ng

RT: 8.25 min Scan# 1005

Delta R.T. -0.01 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-02

Tgt Ion: 136 Resp: 941642

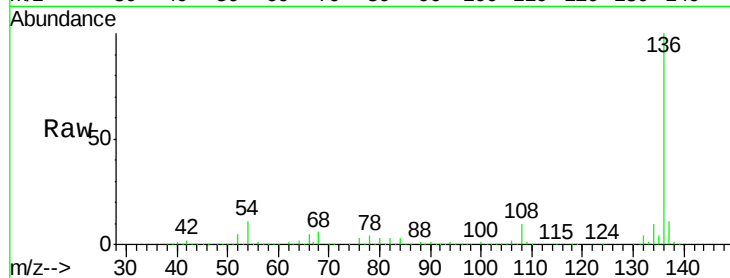
Ion Ratio Lower Upper

136 100

137 11.3 8.9 13.3

54 10.6 6.6 9.8#

68 6.0 5.0 7.4

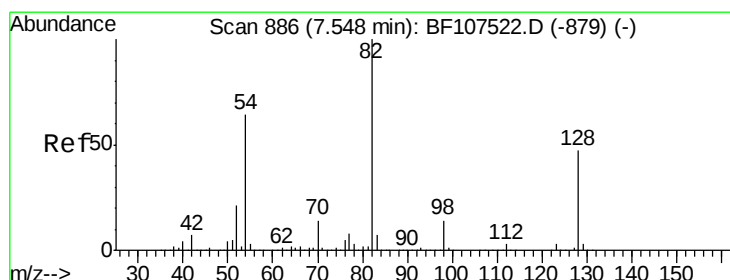
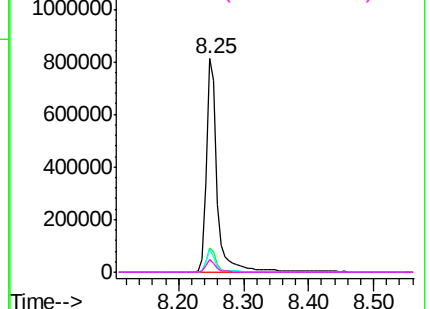
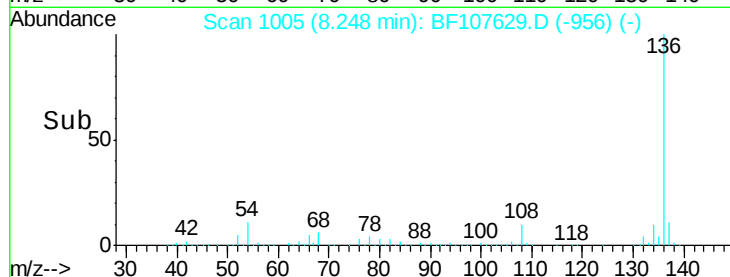


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BF1

Ion 68.00 (67.70 to 68.70): BF1



#23

Nitrobenzene-d5

Concen: 71.472 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.02 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

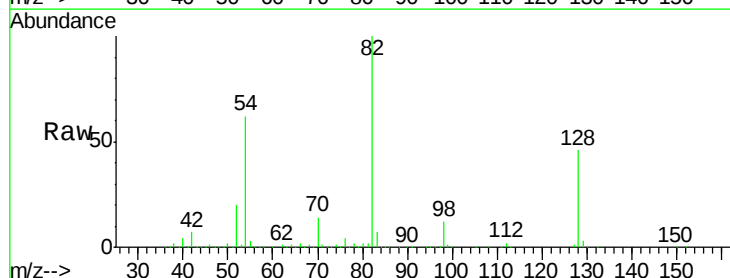
Tgt Ion: 82 Resp: 997233

Ion Ratio Lower Upper

82 100

128 45.7 36.1 54.1

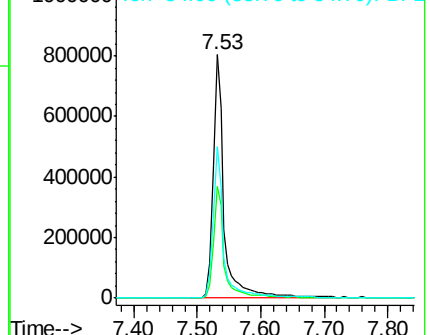
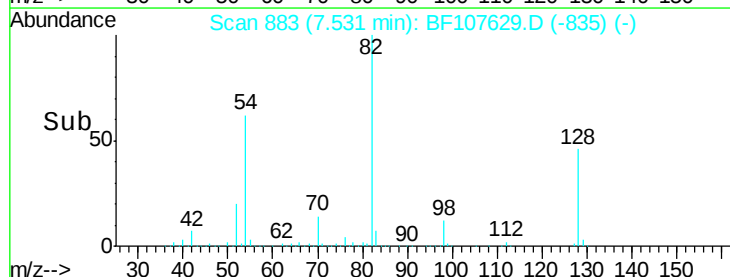
54 62.3 41.4 62.2#



Abundance Ion 82.00 (81.70 to 82.70): BF1

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BF1





#25

Isophorone

Concen: 33.473 ng

RT: 7.53 min Scan# 883

Delta R.T. -0.26 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-02

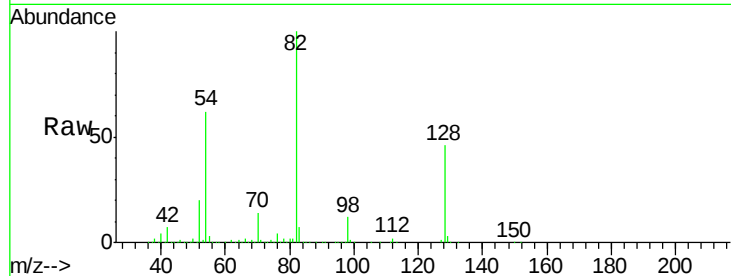
Tgt Ion: 82 Resp: 997226

Ion Ratio Lower Upper

82 100

95 0.1 5.2 7.8#

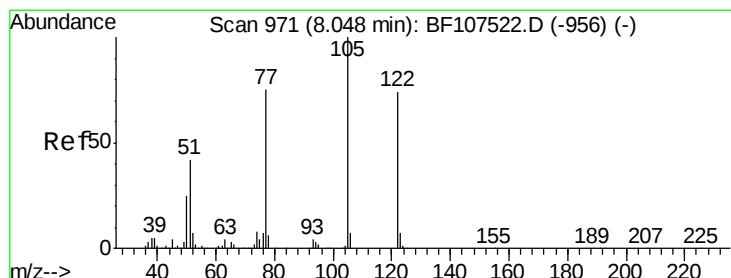
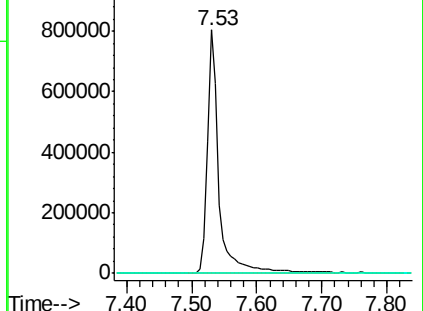
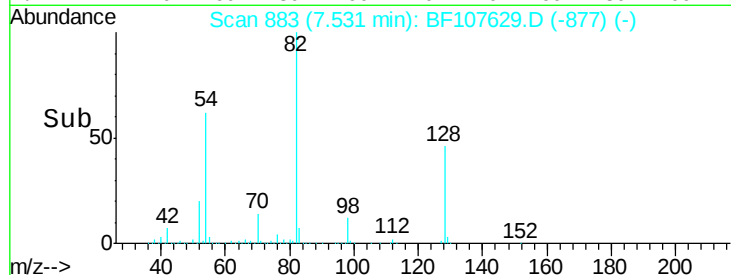
138 0.0 14.9 22.3#



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: 7.919 ng

RT: 8.06 min Scan# 973

Delta R.T. 0.01 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

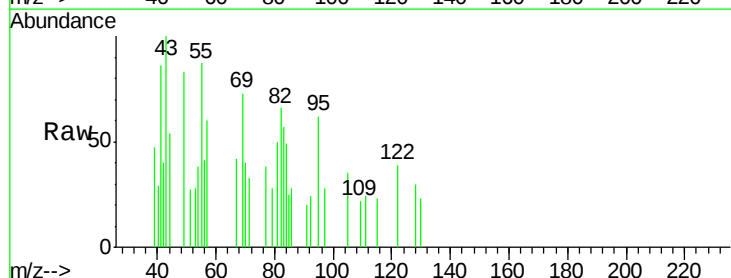
Tgt Ion: 122 Resp: 207

Ion Ratio Lower Upper

122 100

105 88.7 101.1 141.1#

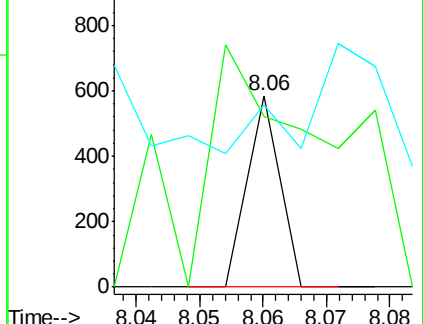
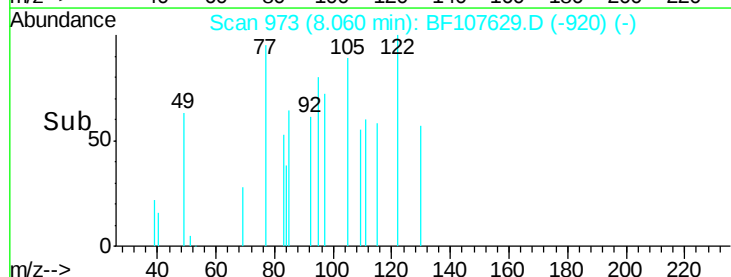
77 95.2 70.7 110.7

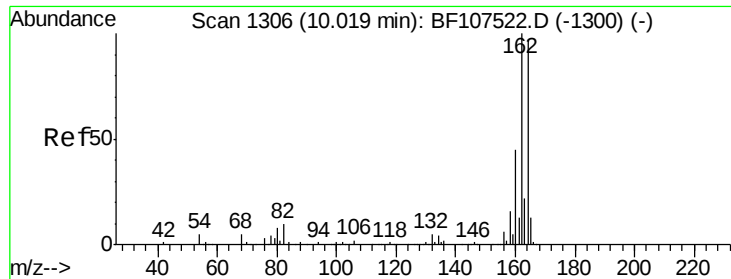


Abundance Ion 122.00 (121.70 to 122.70): BF1

Ion 105.00 (104.70 to 105.70): BF1

Ion 77.00 (76.70 to 77.70): BF1

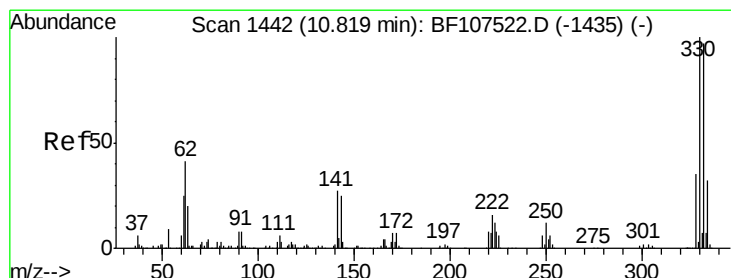
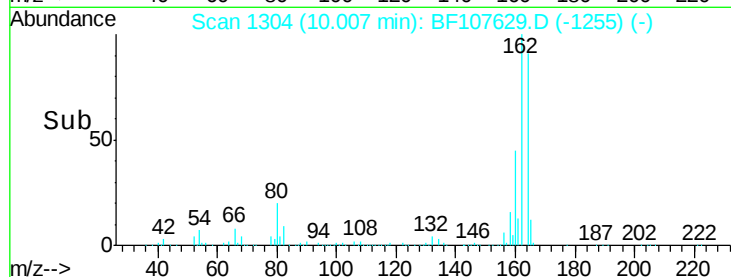
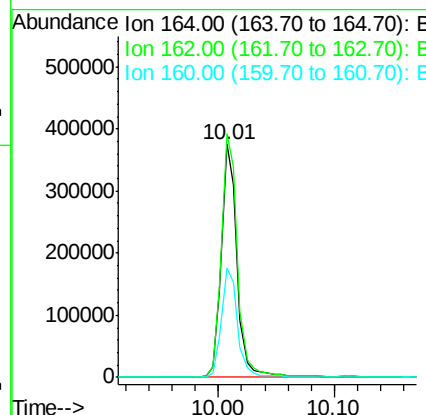
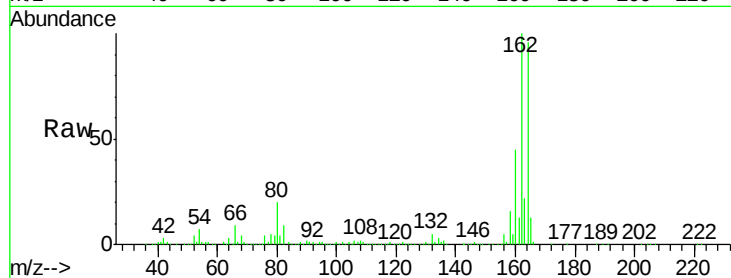




#38
 Acenaphthene-d10
 Concen: 20.000 ng
 RT: 10.01 min Scan# 1304
 Delta R.T. -0.01 min
 Lab File: BF107629.D
 Acq: 24 Jul 2018 19:52

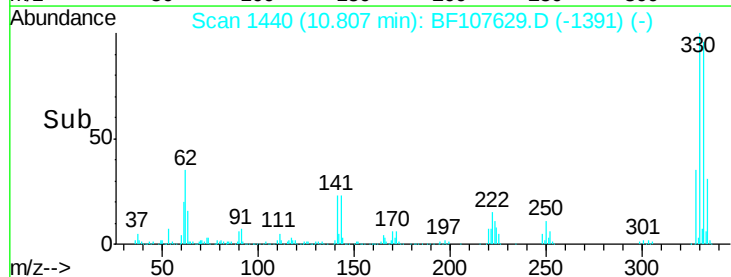
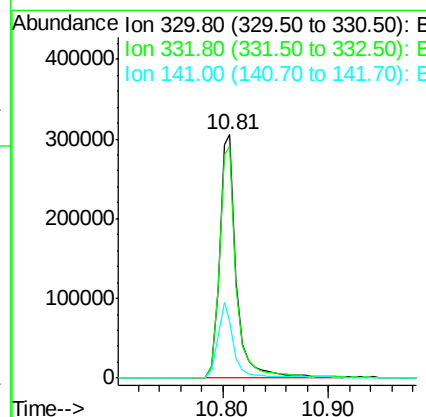
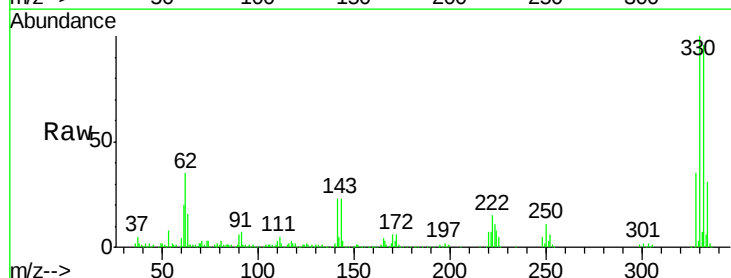
Instrument :
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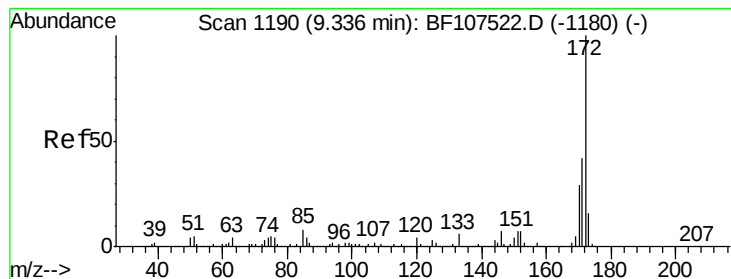
Tgt Ion:164 Resp: 356622
 Ion Ratio Lower Upper
 164 100
 162 104.6 86.1 129.1
 160 47.1 38.3 57.5



#41
 2,4,6-Tribromophenol
 Concen: 85.270 ng
 RT: 10.81 min Scan# 1440
 Delta R.T. -0.01 min
 Lab File: BF107629.D
 Acq: 24 Jul 2018 19:52

Tgt Ion:330 Resp: 345798
 Ion Ratio Lower Upper
 330 100
 332 95.9 77.0 115.6
 141 28.8 29.9 44.9#





#44

2-Fluorobiphenyl

Concen: 68.679 ng

RT: 9.32 min Scan# 1188

Delta R.T. -0.01 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-02

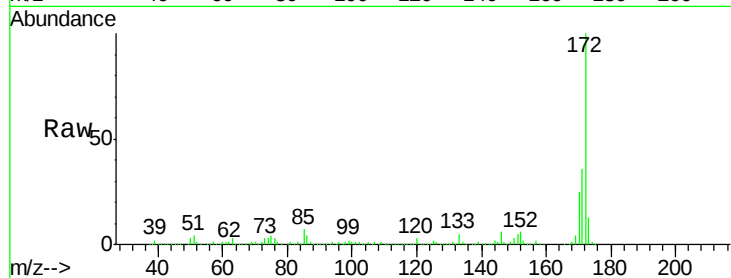
Tgt Ion:172 Resp: 1509242

Ion Ratio Lower Upper

172 100

171 36.5 29.7 44.5

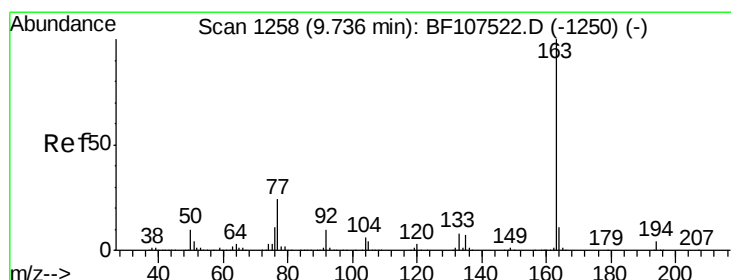
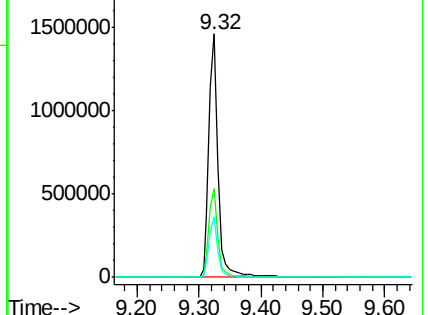
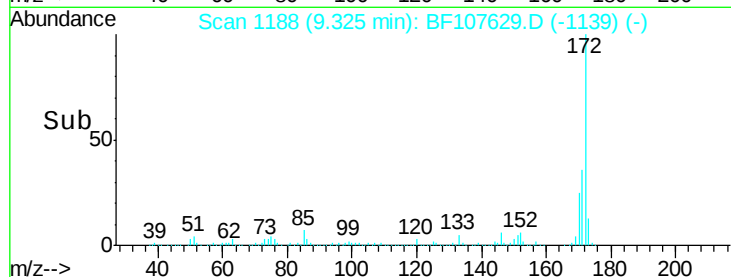
170 25.0 19.6 29.4



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: 10.438 ng

RT: 9.71 min Scan# 1254

Delta R.T. -0.02 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

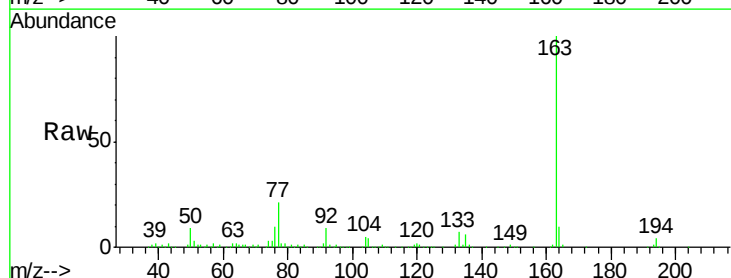
Tgt Ion:163 Resp: 280533

Ion Ratio Lower Upper

163 100

194 3.7 2.7 4.1

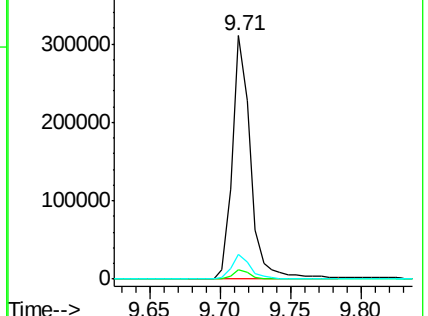
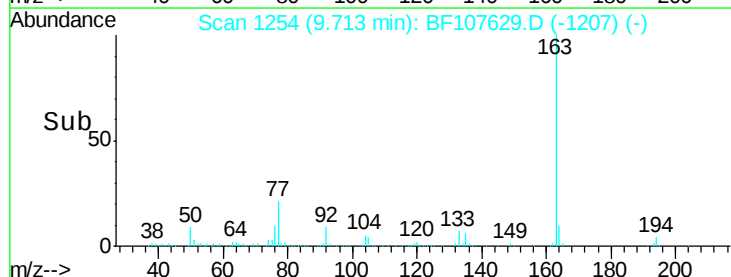
164 9.9 8.2 12.2

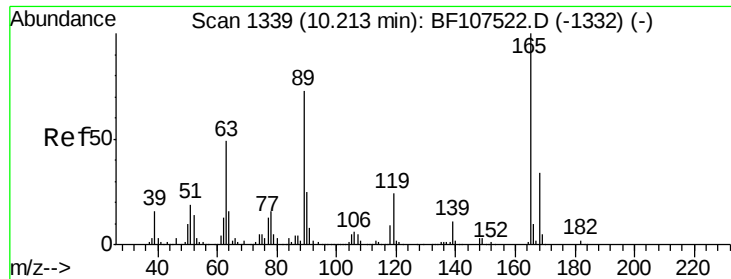


Abundance Ion 163.00 (162.70 to 163.70): E

Ion 194.00 (193.70 to 194.70): E

Ion 164.00 (163.70 to 164.70): E

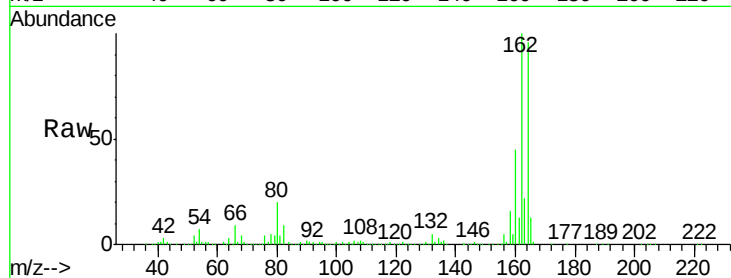




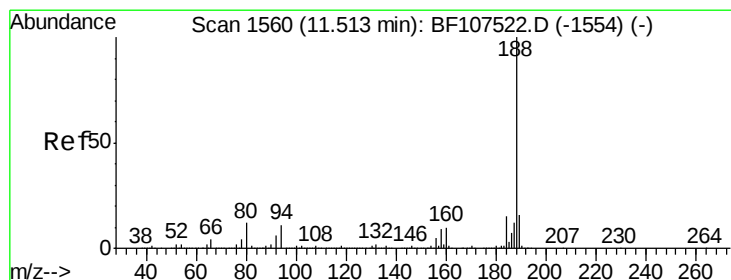
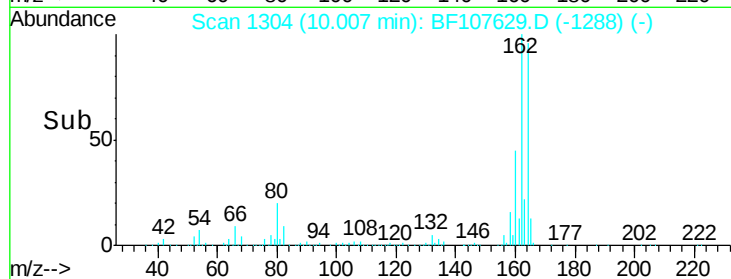
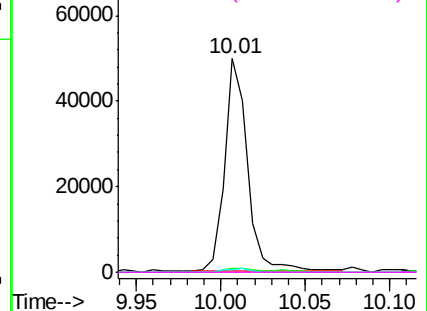
#56
2,4-Dinitrotoluene
Concen: 7.231 ng
RT: 10.01 min Scan# 1304
Delta R.T. -0.21 min
Lab File: BF107629.D
Acq: 24 Jul 2018 19:52

Instrument :
BNA_F
ClientSampleId :
GL-TOPSOIL-02

Tgt Ion:165 Resp: 46577
Ion Ratio Lower Upper
165 100
63 1.9 36.4 54.6#
89 1.1 57.8 86.6#
182 0.0 1.6 2.4#

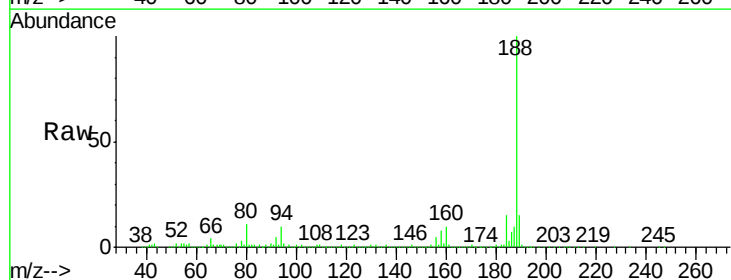


Abundance Ion 165.00 (164.70 to 165.70): E
Ion 63.00 (62.70 to 63.70): BF1
Ion 89.00 (88.70 to 89.70): BF1
Ion 182.00 (181.70 to 182.70): E

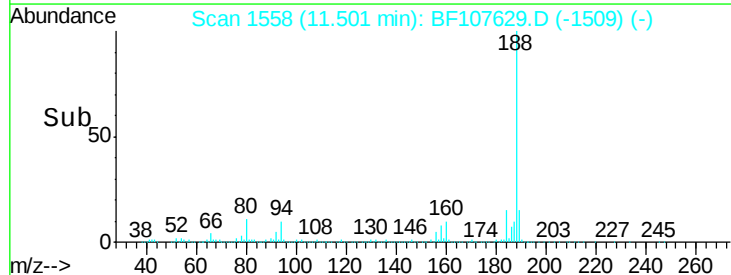
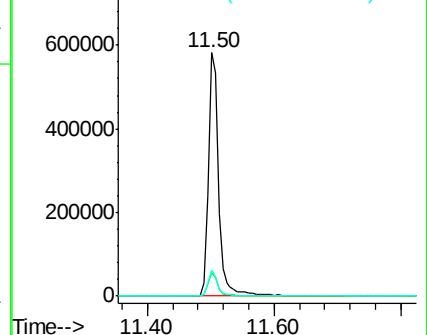


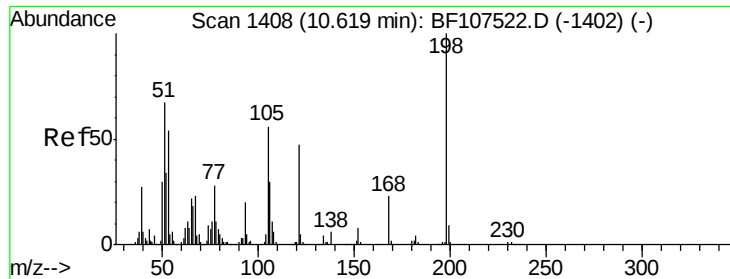
#63
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.50 min Scan# 1558
Delta R.T. -0.01 min
Lab File: BF107629.D
Acq: 24 Jul 2018 19:52

Tgt Ion:188 Resp: 639028
Ion Ratio Lower Upper
188 100
94 9.8 8.5 12.7
80 10.6 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: 8.805 ng

RT: 10.80 min Scan# 1439

Delta R.T. 0.18 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

Instrument :

BNA_F

ClientSampled :

GL-TOPSOIL-02

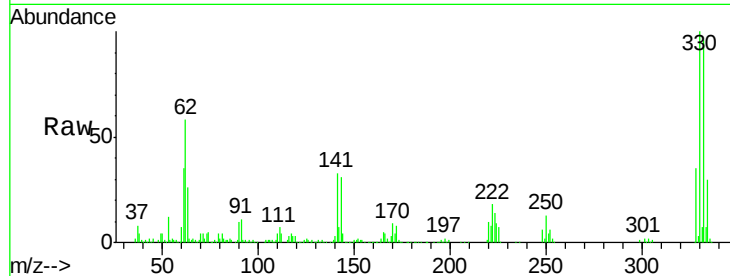
Tgt Ion:198 Resp: 468

Ion Ratio Lower Upper

198 100

51 370.0 37.7 77.7#

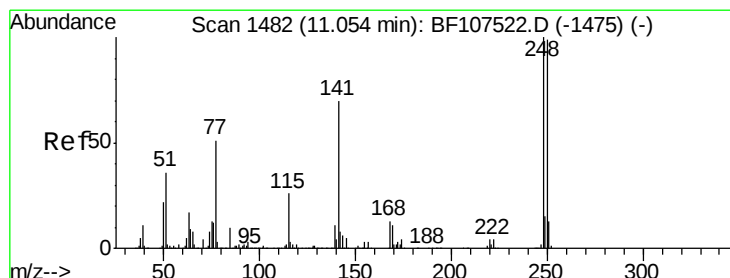
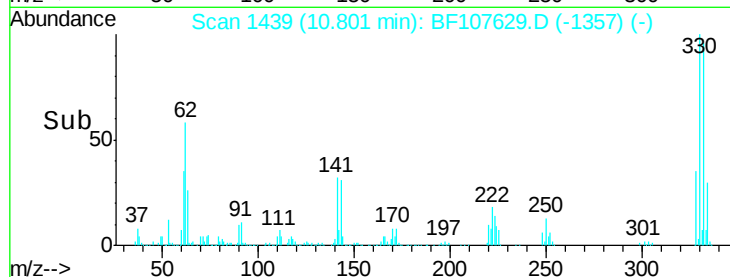
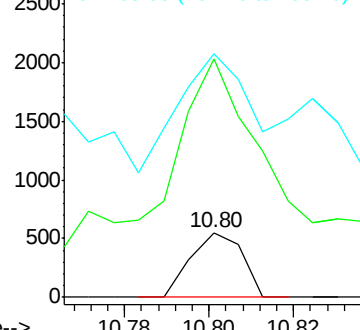
105 377.1 36.3 76.3#



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



#66

4-Bromophenyl-phenylether

Concen: 2.726 ng

RT: 10.80 min Scan# 1439

Delta R.T. -0.25 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

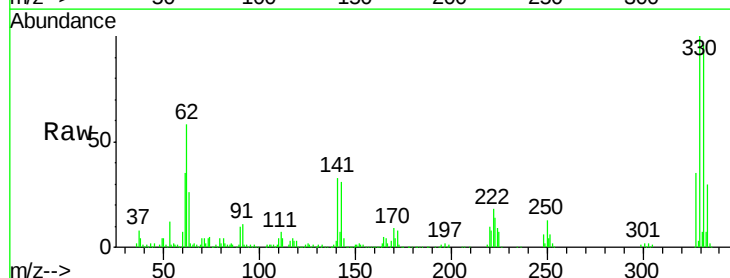
Tgt Ion:248 Resp: 20504

Ion Ratio Lower Upper

248 100

250 201.0 76.9 115.3#

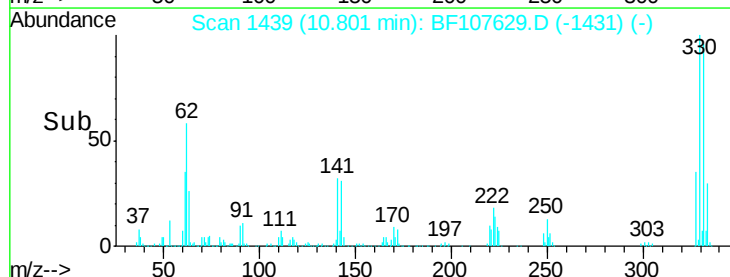
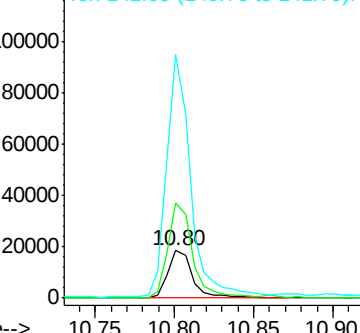
141 511.2 74.4 111.6#

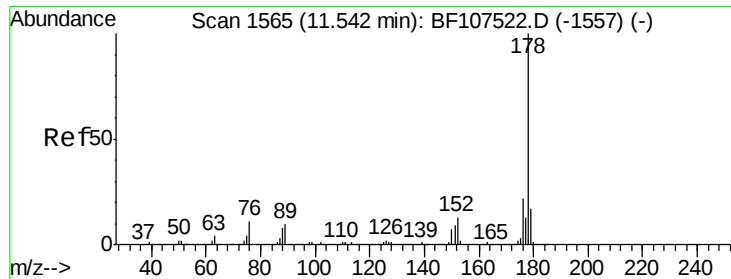


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#70

Phenanthrene

Concen: 2.754 ng

RT: 11.52 min Scan# 1562

Delta R.T. -0.02 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-02

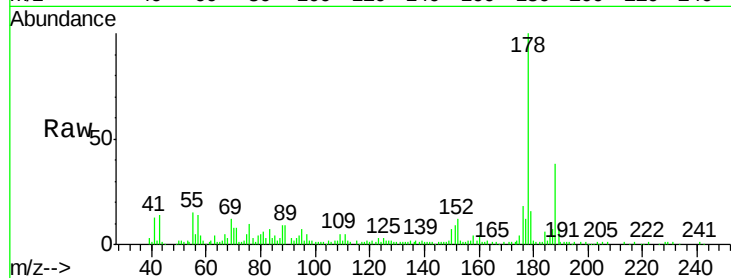
Tgt Ion:178 Resp: 85762

Ion Ratio Lower Upper

178 100

176 18.0 15.8 23.8

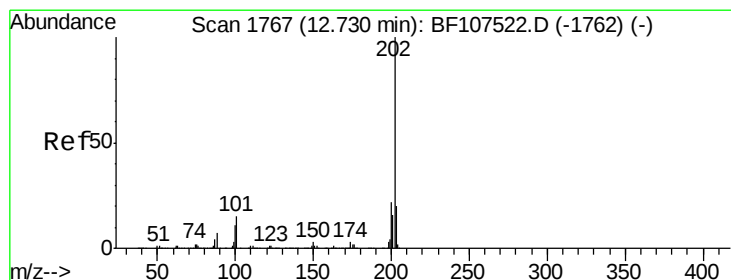
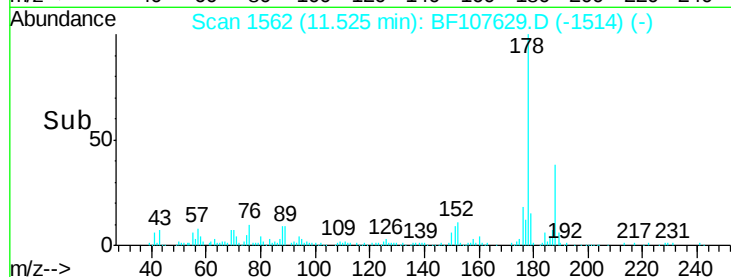
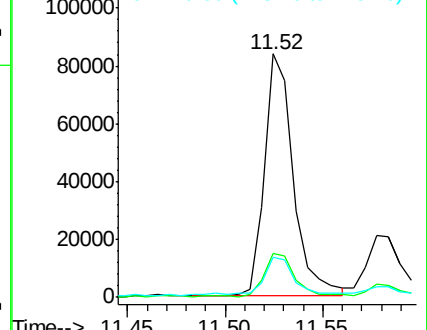
179 16.2 13.0 19.6



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



#74

Fluoranthene

Concen: 7.628 ng

RT: 12.72 min Scan# 1765

Delta R.T. -0.01 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

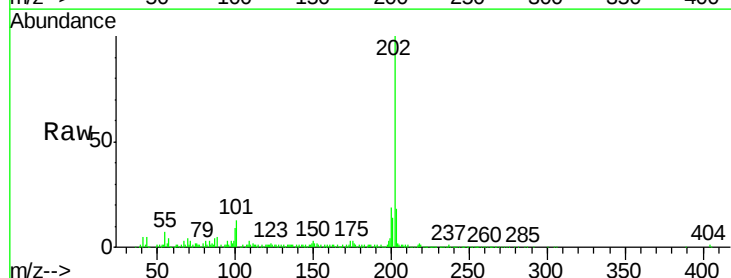
Tgt Ion:202 Resp: 254901

Ion Ratio Lower Upper

202 100

101 12.9 0.0 34.1

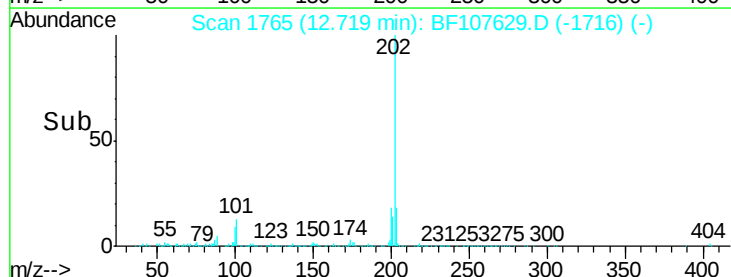
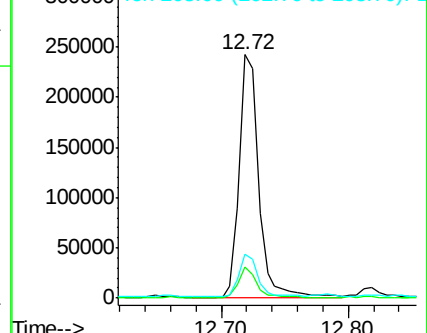
203 17.9 0.0 38.1

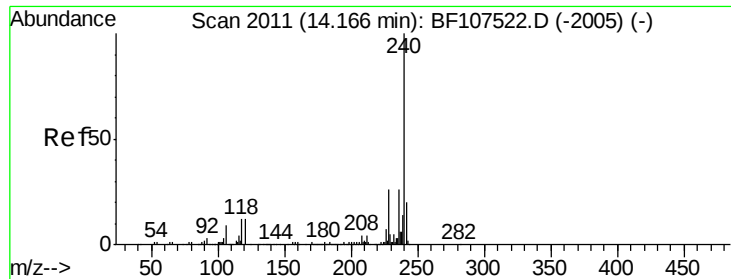


Abundance Ion 202.00 (201.70 to 202.70): E

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: BF107629.D

Acq: 24 Jul 2018 19:52

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-02

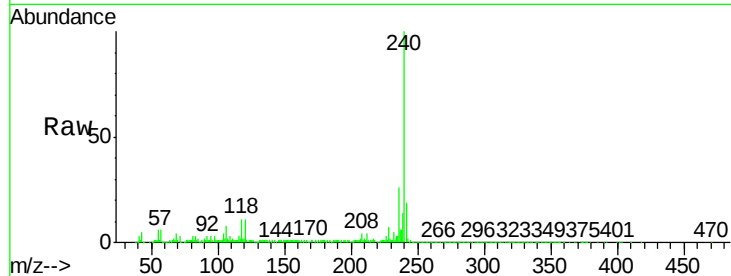
Tgt Ion:240 Resp: 471158

Ion Ratio Lower Upper

240 100

120 11.1 9.5 14.3

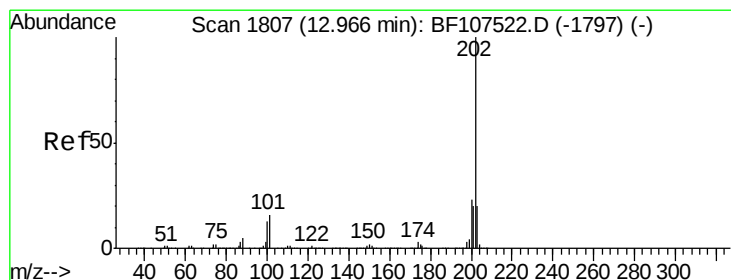
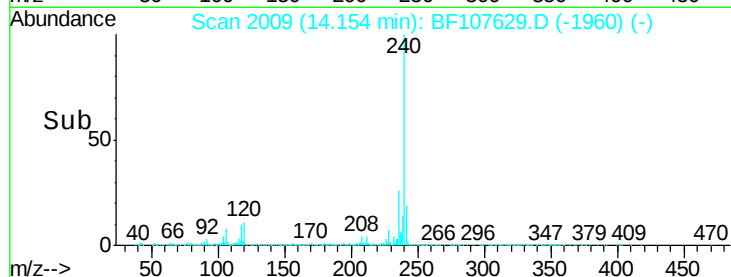
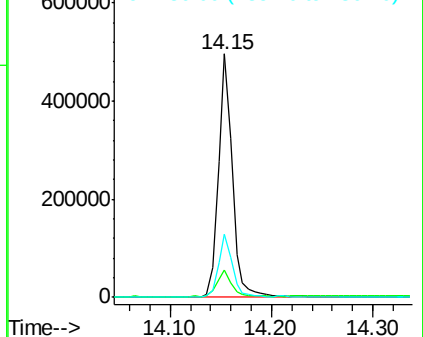
236 25.7 20.7 31.1



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: 7.237 ng

RT: 12.95 min Scan# 1805

Delta R.T. -0.01 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

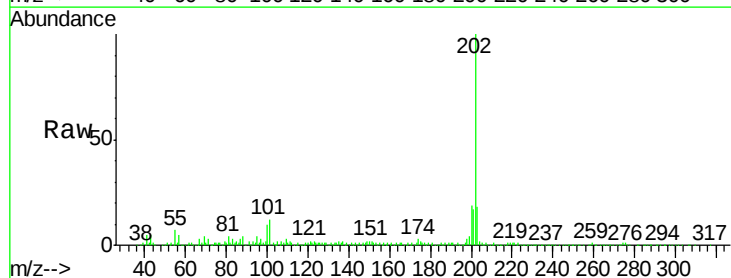
Tgt Ion:202 Resp: 233238

Ion Ratio Lower Upper

202 100

200 19.2 17.4 26.2

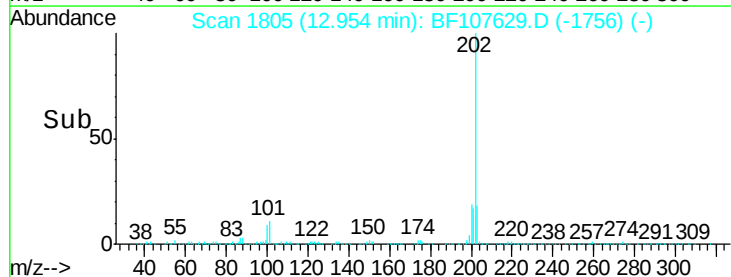
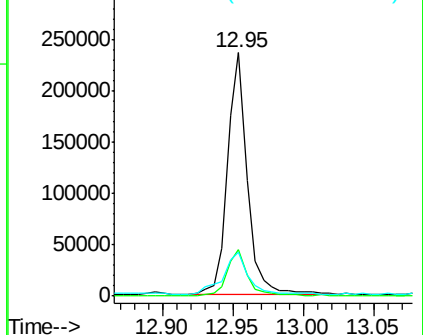
203 18.2 14.3 21.5

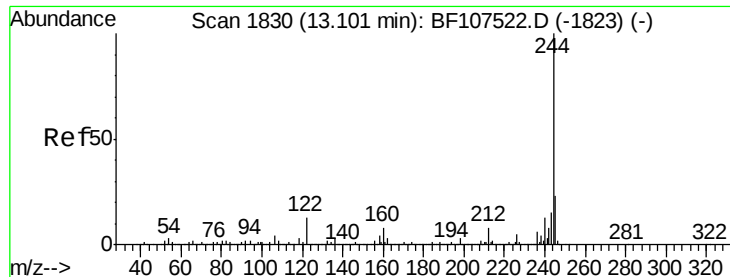


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#78

Terphenyl-d14

Concen: 64.546 ng

RT: 13.09 min Scan# 1828

Delta R.T. -0.01 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-02

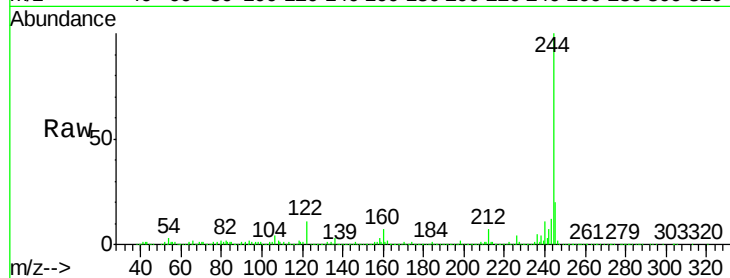
Tgt Ion:244 Resp: 1187895

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.0

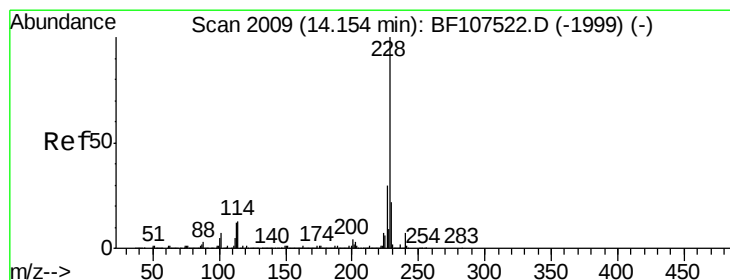
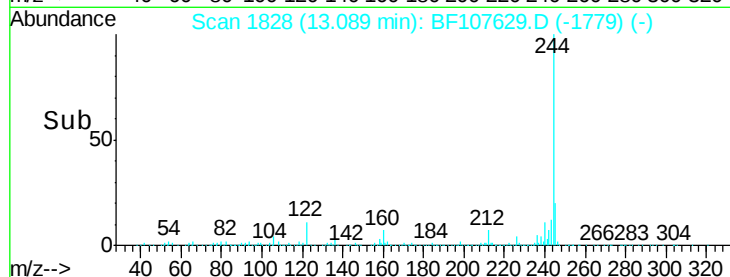
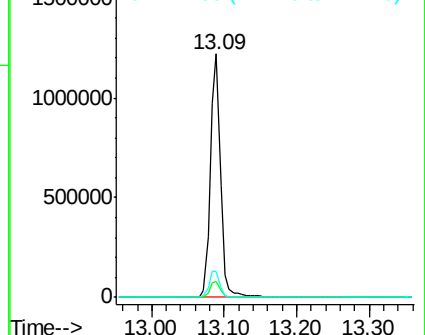
122 10.8 11.0 16.4#



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: 4.314 ng

RT: 14.14 min Scan# 2007

Delta R.T. -0.01 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

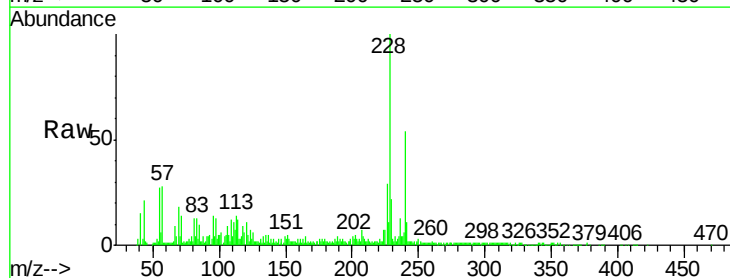
Tgt Ion:228 Resp: 119112

Ion Ratio Lower Upper

228 100

226 29.2 22.6 33.8

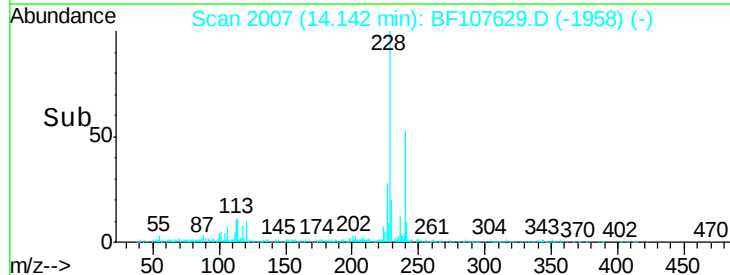
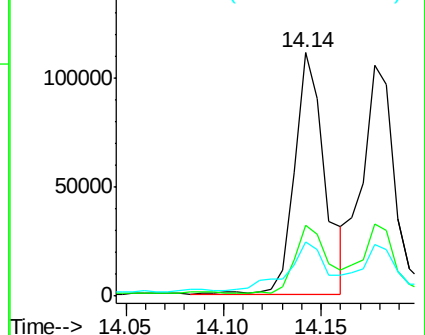
229 22.0 15.8 23.6

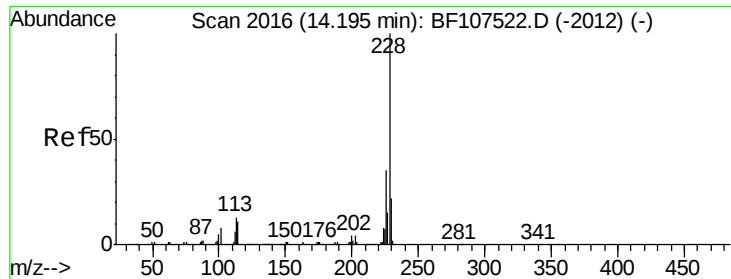


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#82

Chrysene

Concen: 4.609 ng

RT: 14.18 min Scan# 2013

Delta R.T. -0.02 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-02

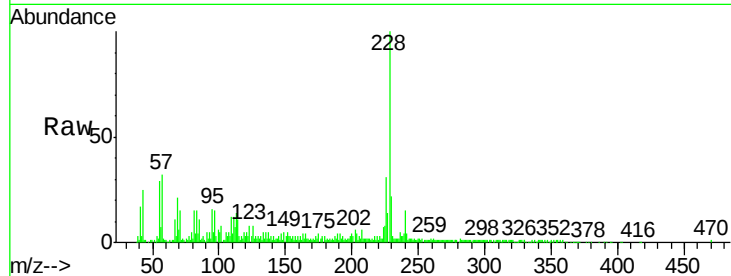
Tgt Ion: 228 Resp: 122246

Ion Ratio Lower Upper

228 100

226 31.5 25.0 37.6

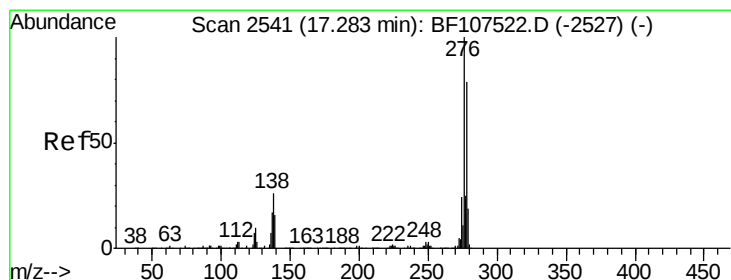
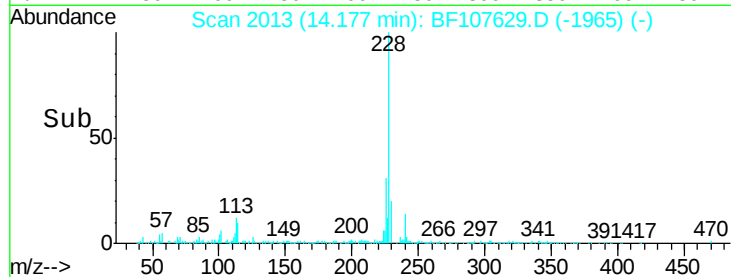
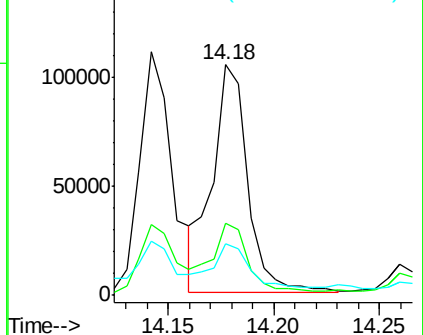
229 22.2 16.2 24.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#85

Indeno(1,2,3-cd)pyrene

Concen: 2.452 ng

RT: 17.26 min Scan# 2537

Delta R.T. -0.02 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

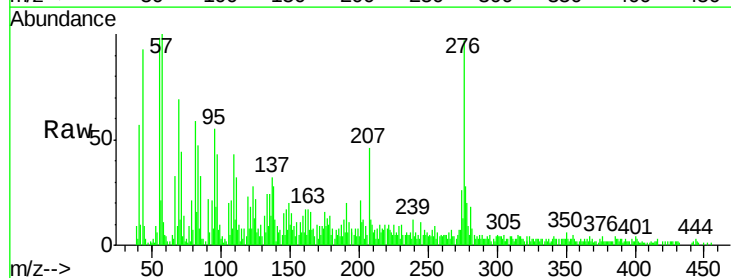
Tgt Ion: 276 Resp: 55129

Ion Ratio Lower Upper

276 100

138 23.8 25.0 37.6#

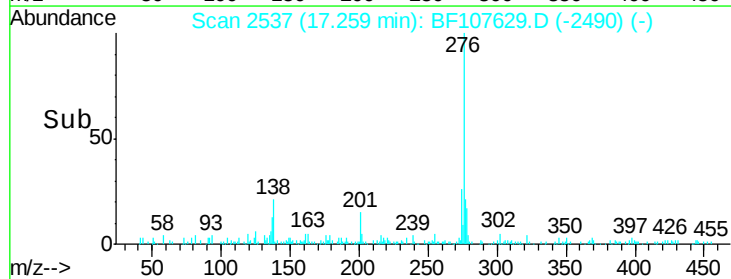
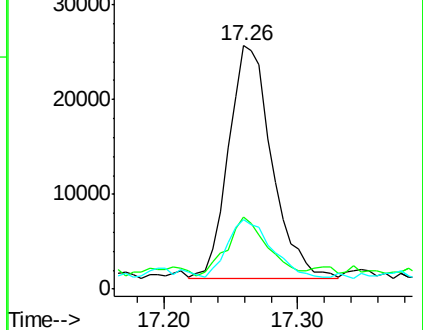
277 25.2 20.1 30.1

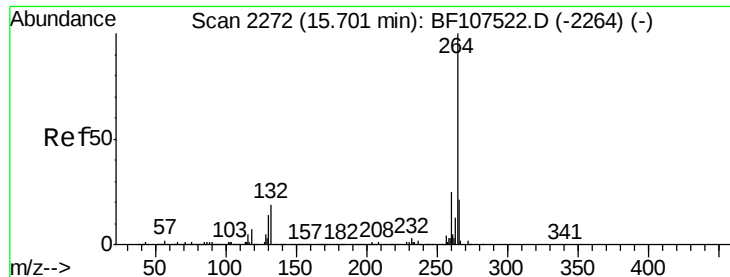


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

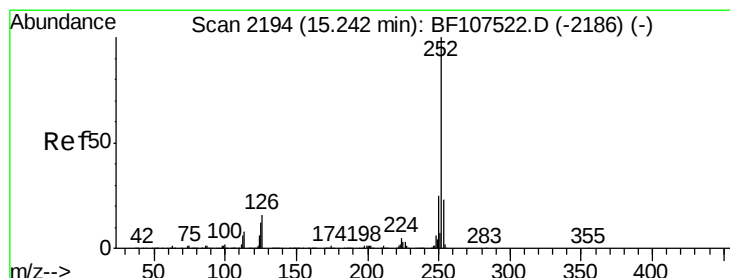
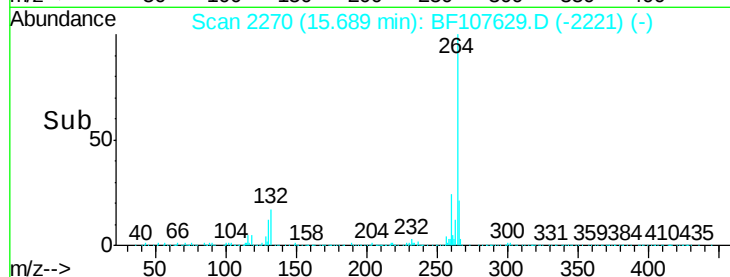
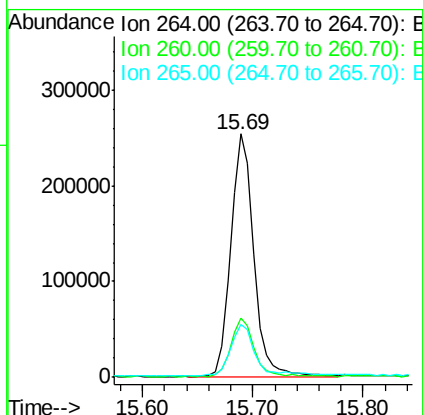
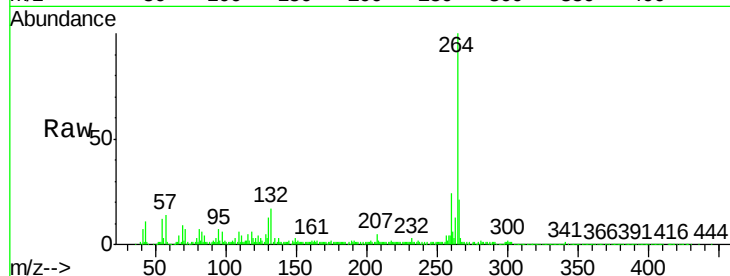




#86
Perylene-d12
Concen: 20.000 ng
RT: 15.69 min Scan# 2270
Delta R.T. -0.01 min
Lab File: BF107629.D
Acq: 24 Jul 2018 19:52

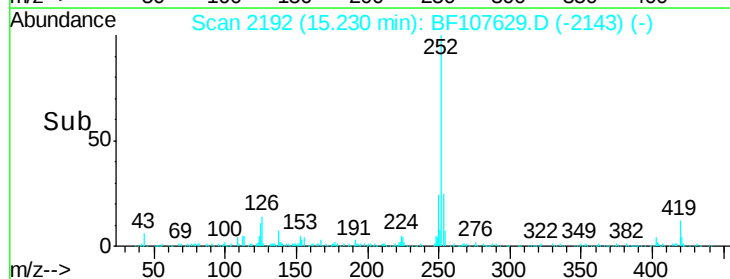
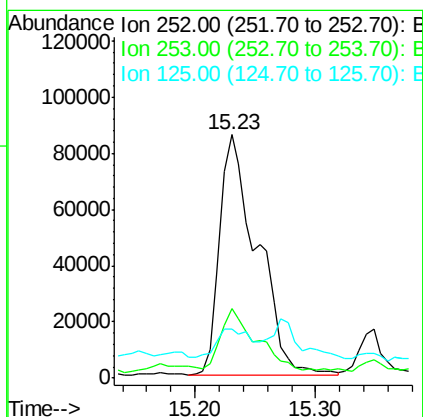
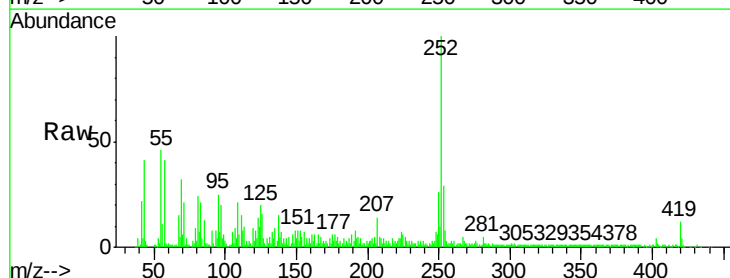
Instrument :
BNA_F
ClientSampleId :
GL-TOPSOIL-02

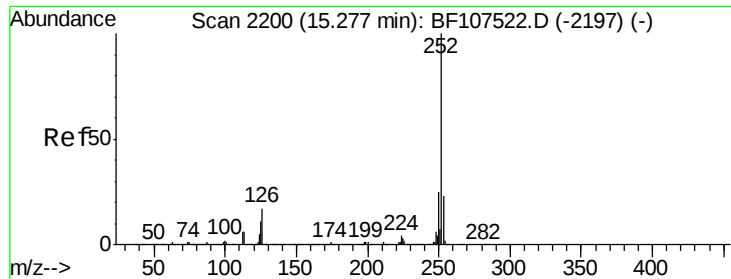
Tgt Ion:264 Resp: 371064
Ion Ratio Lower Upper
264 100
260 24.1 19.2 28.8
265 21.5 17.5 26.3



#87
Benzo(b)fluoranthene
Concen: 9.050 ng
RT: 15.23 min Scan# 2192
Delta R.T. -0.01 min
Lab File: BF107629.D
Acq: 24 Jul 2018 19:52

Tgt Ion:252 Resp: 183789
Ion Ratio Lower Upper
252 100
253 28.5 17.0 25.6#
125 20.2 9.0 13.6#

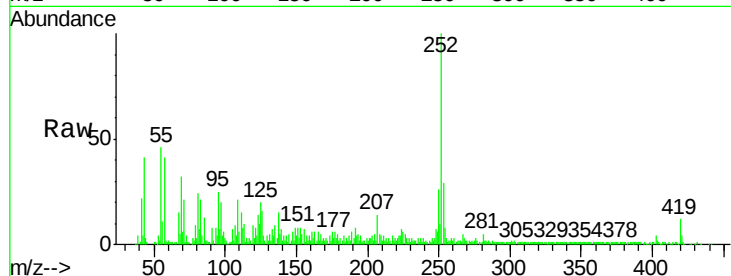




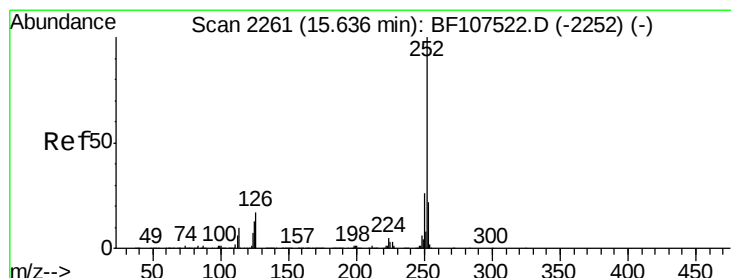
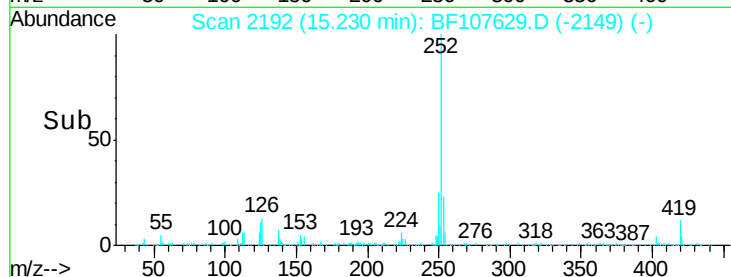
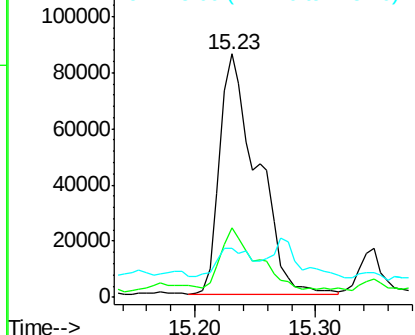
#88
Benzo(k)fluoranthene
Concen: 9.237 ng
RT: 15.23 min Scan# 2192
Delta R.T. -0.05 min
Lab File: BF107629.D
Acq: 24 Jul 2018 19:52

Instrument :
BNA_F
ClientSampleId :
GL-TOPSOIL-02

Tgt Ion:252 Resp: 183789
Ion Ratio Lower Upper
252 100
253 28.5 17.9 26.9#
125 20.2 10.2 15.2#

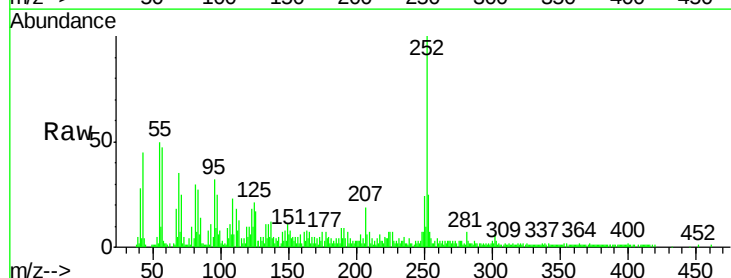


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

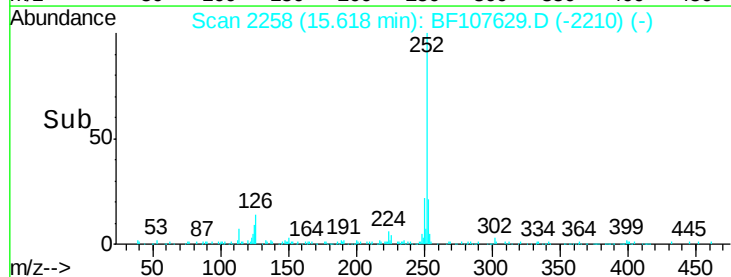
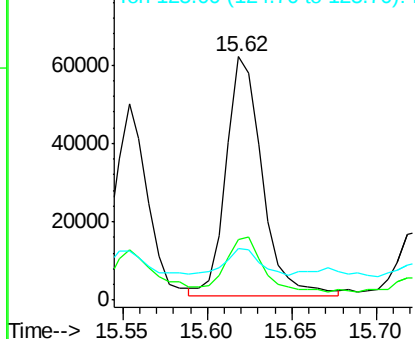


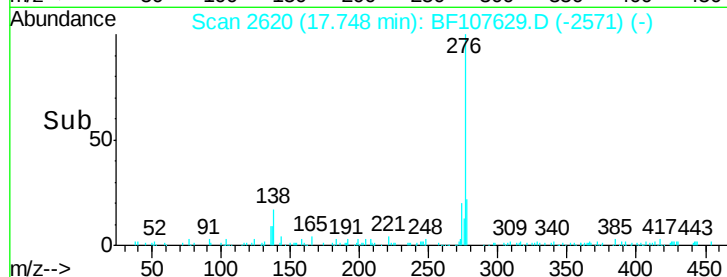
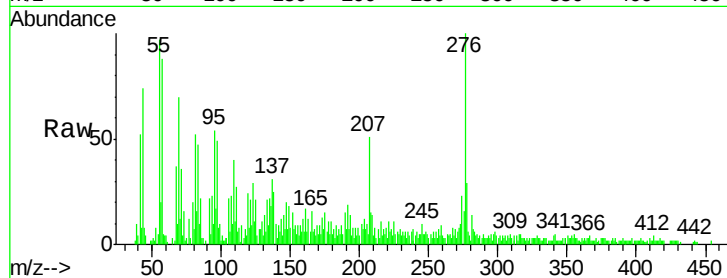
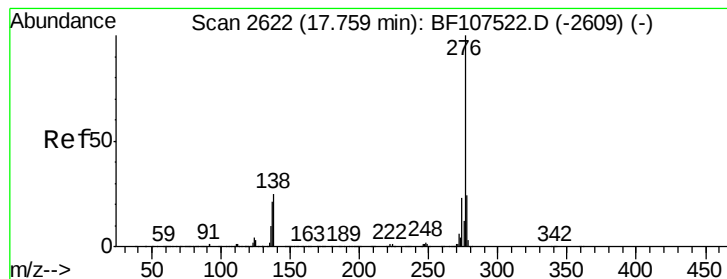
#89
Benzo(a)pyrene
Concen: 4.852 ng
RT: 15.62 min Scan# 2258
Delta R.T. -0.02 min
Lab File: BF107629.D
Acq: 24 Jul 2018 19:52

Tgt Ion:252 Resp: 90129
Ion Ratio Lower Upper
252 100
253 25.0 17.1 25.7
125 21.3 9.8 14.6#



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





#91

Benzo(g,h,i)perylene

Concen: 3.545 ng

RT: 17.75 min Scan# 2620

Delta R.T. -0.01 min

Lab File: BF107629.D

Acq: 24 Jul 2018 19:52

Instrument :

BNA_F

ClientSampleId :

GL-TOPSOIL-02

Tgt Ion: 276 Resp: 56158

Ion Ratio Lower Upper

276 100

277 29.1 17.9 26.9#

138 25.3 21.8 32.8

