

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030722\
 Data File : BF127221.D
 Acq On : 07 Mar 2022 14:02
 Operator : CG\JU
 Sample : N1731-01
 Misc :
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 VACLOT-TOPSOIL-GRILLO-01

Quant Time: Mar 07 14:59:51 2022
 Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF021622.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Mar 05 02:16:58 2022
 Response via : Initial Calibration

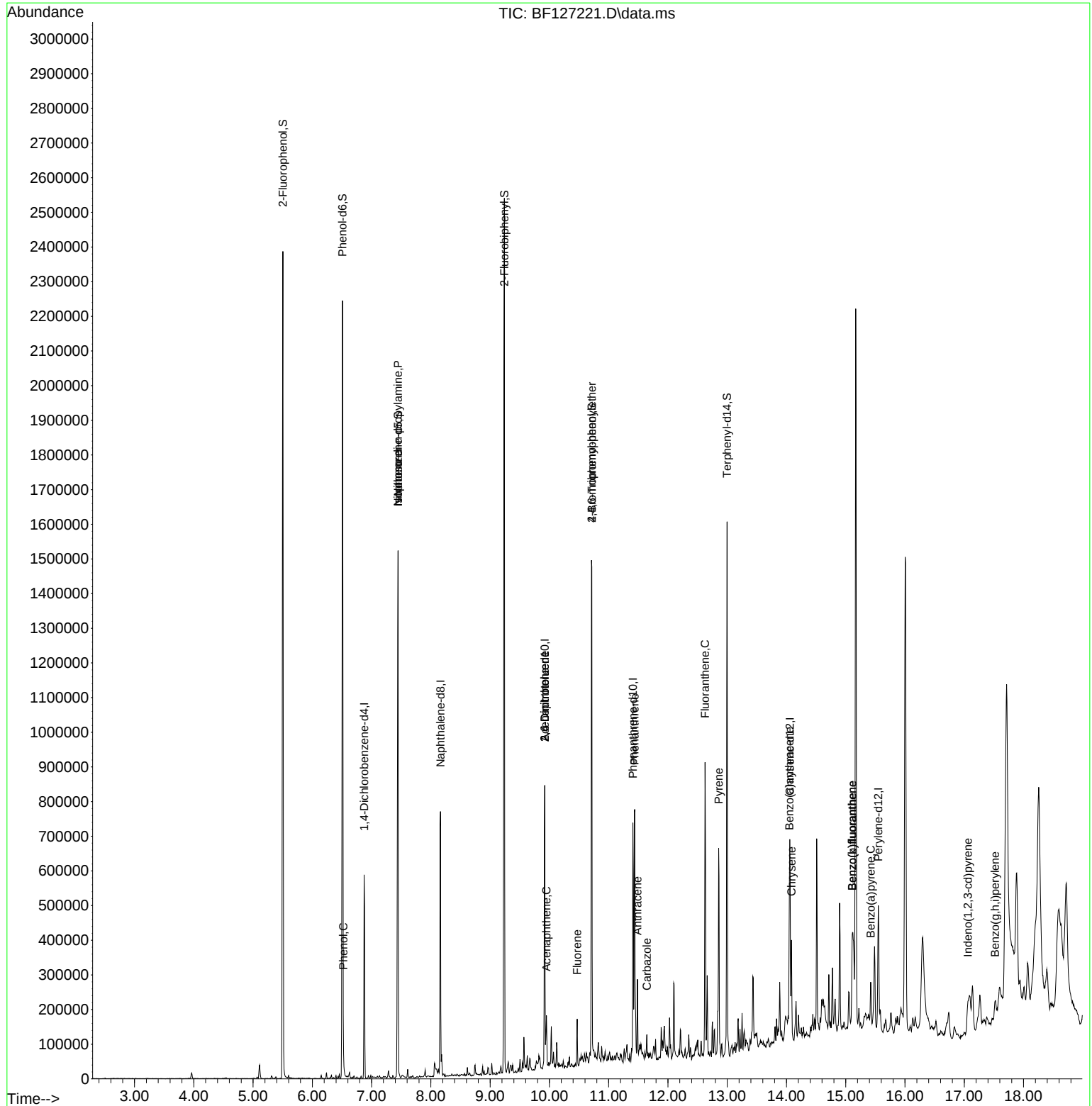
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.875	152	78328	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	317068	20.000	ng	# 0.00
39) Acenaphthene-d10	9.922	164	148303	20.000	ng	0.00
64) Phenanthrene-d10	11.410	188	223541	20.000	ng	# 0.00
76) Chrysene-d12	14.057	240	141811	20.000	ng	# 0.00
86) Perylene-d12	15.551	264	124804	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.504	112	591351	116.686	ng	0.00
7) Phenol-d6	6.510	99	743947	108.790	ng	0.00
23) Nitrobenzene-d5	7.445	82	481947	68.609	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	180054	105.448	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	681190	67.619	ng	0.00
79) Terphenyl-d14	12.998	244	460892	47.777	ng	0.00
Target Compounds						
10) Phenol	6.522	94	14427	2.088	ng	# 68
19) n-Nitroso-di-n-propyla...	7.445	70	66389	15.066	ng	# 78
25) Isophorone	7.445	82	480989	41.380	ng	# 69
51) 2,6-Dinitrotoluene	9.922	165	19940	9.246	ng	# 22
52) Acenaphthene	9.951	154	19830	2.154	ng	96
57) 2,4-Dinitrotoluene	9.922	165	19940	6.838	ng	# 16
58) Fluorene	10.469	166	30144	3.057	ng	98
67) 4-Bromophenyl-phenylether	10.716	248	10990	4.400	ng	# 1
71) Phenanthrene	11.439	178	261760	20.921	ng	98
72) Anthracene	11.486	178	73098	5.869	ng	99
73) Carbazole	11.645	167	24377	2.134	ng	96
75) Fluoranthene	12.627	202	279927	23.562	ng	95
78) Pyrene	12.857	202	231027	18.752	ng	99
81) Benzo(a)anthracene	14.051	228	119416	12.491	ng	97
83) Chrysene	14.086	228	108985	12.123	ng	97
87) Indeno(1,2,3-cd)pyrene	17.062	276	52620	6.430	ng	# 83
88) Benzo(b)fluoranthene	15.109	252	190217	22.693	ng	# 96
89) Benzo(k)fluoranthene	15.109	252	190217	23.527	ng	# 96
90) Benzo(a)pyrene	15.421	252	63773	9.740	ng	98
92) Benzo(g,h,i)perylene	17.521	276	52336	7.843	ng	# 86

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

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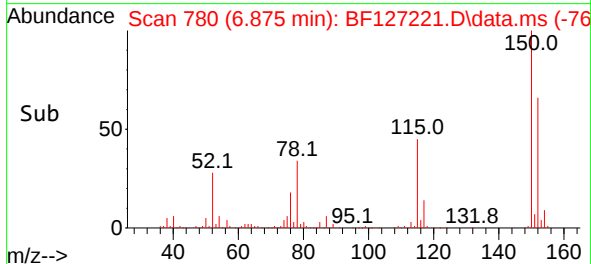
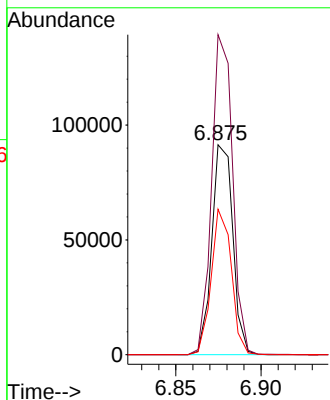
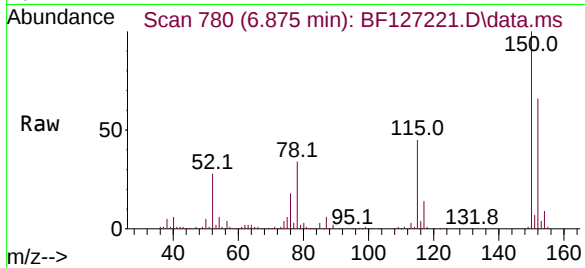




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.875 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF127221.D
Acq: 07 Mar 2022 14:02

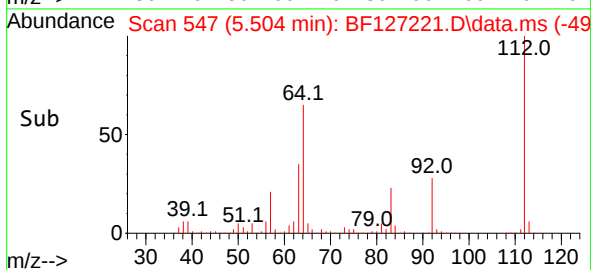
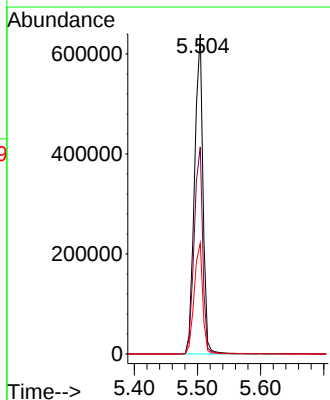
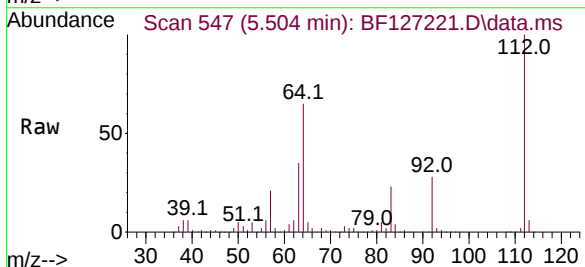
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01

Tgt Ion:152 Resp: 78328
Ion Ratio Lower Upper
152 100
150 152.5 128.1 192.1
115 69.3 56.7 85.1



#5
2-Fluorophenol
Concen: 116.686 ng
RT: 5.504 min Scan# 547
Delta R.T. 0.006 min
Lab File: BF127221.D
Acq: 07 Mar 2022 14:02

Tgt Ion:112 Resp: 591351
Ion Ratio Lower Upper
112 100
64 64.7 49.5 74.3
63 34.7 23.9 35.9





#7

Phenol-d6

Concen: 108.790 ng

RT: 6.510 min Scan# 71

Delta R.T. -0.006 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01

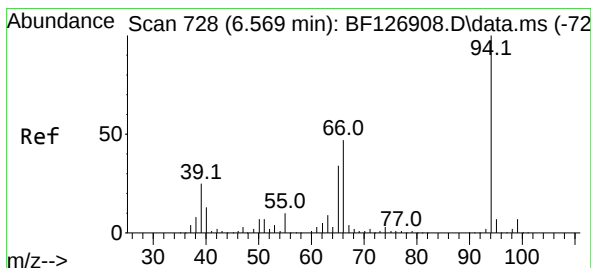
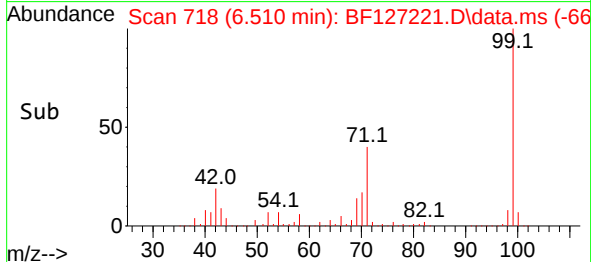
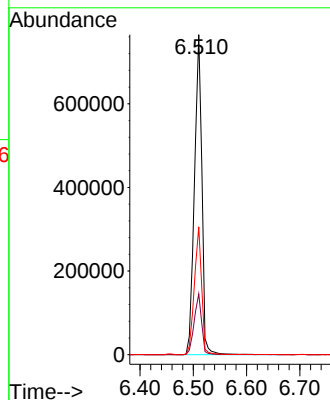
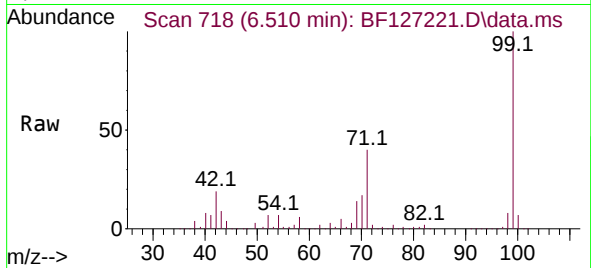
Tgt Ion: 99 Resp: 743947

Ion Ratio Lower Upper

99 100

42 19.0 14.2 21.4

71 40.0 24.3 36.5#



#10

Phenol

Concen: 2.088 ng

RT: 6.522 min Scan# 720

Delta R.T. -0.006 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

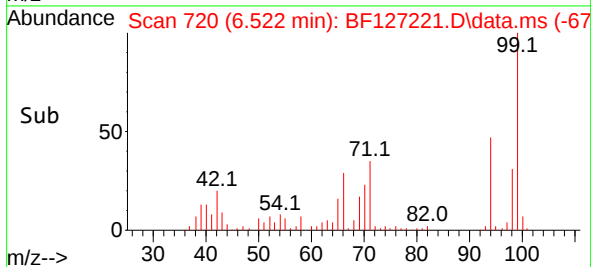
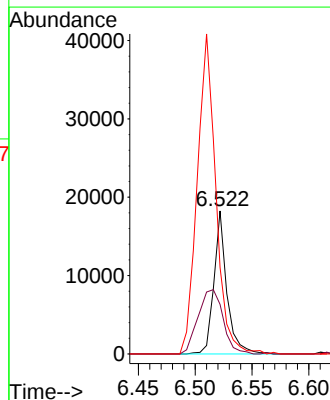
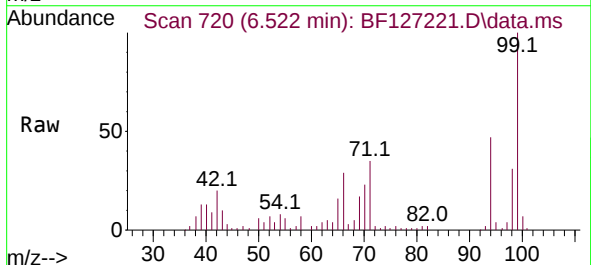
Tgt Ion: 94 Resp: 14427

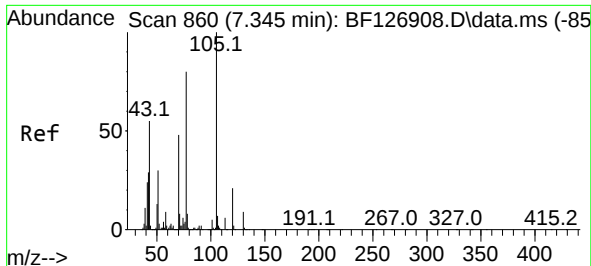
Ion Ratio Lower Upper

94 100

65 34.7 7.2 47.2

66 60.6 14.5 54.5#

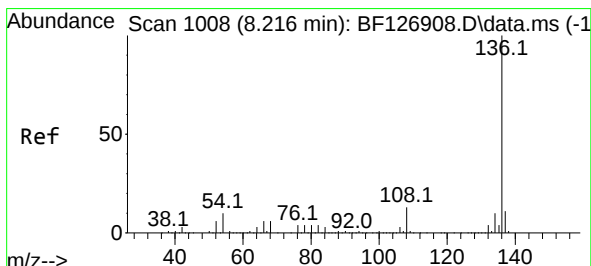
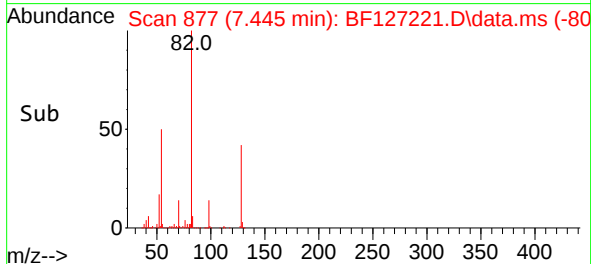
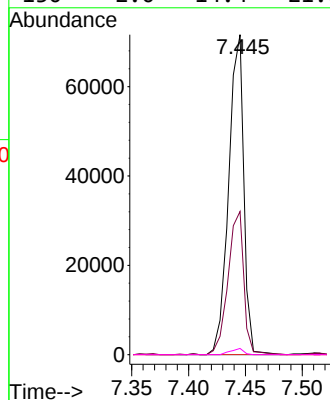
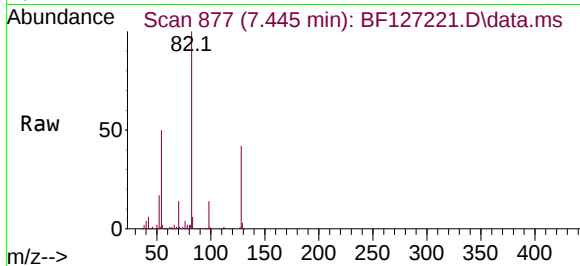




#19
n-Nitroso-di-n-propylamine
Concen: 15.066 ng
RT: 7.445 min Scan# 81
Delta R.T. 0.153 min
Lab File: BF127221.D
Acq: 07 Mar 2022 14:02

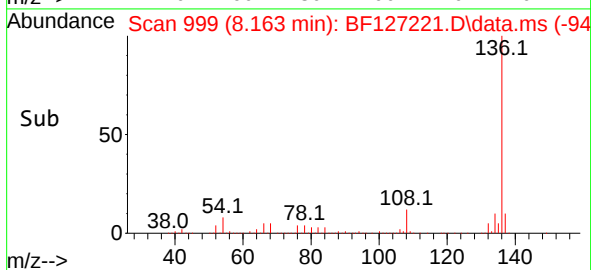
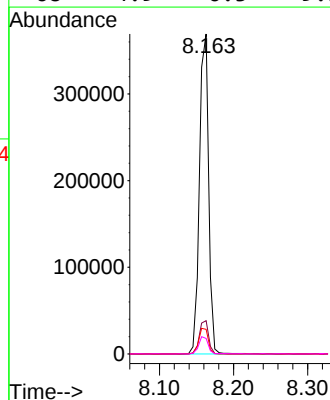
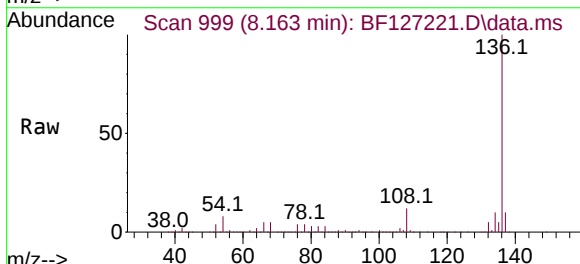
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01

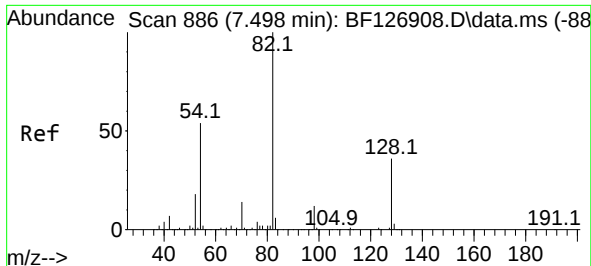
Tgt Ion: 70 Resp: 66389
Ion Ratio Lower Upper
70 100
42 44.8 45.8 68.8#
101 0.0 6.9 10.3#
130 2.0 14.4 21.6#



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 999
Delta R.T. -0.000 min
Lab File: BF127221.D
Acq: 07 Mar 2022 14:02

Tgt Ion:136 Resp: 317068
Ion Ratio Lower Upper
136 100
137 10.4 8.6 13.0
54 7.7 7.8 11.6#
68 4.9 6.3 9.5#

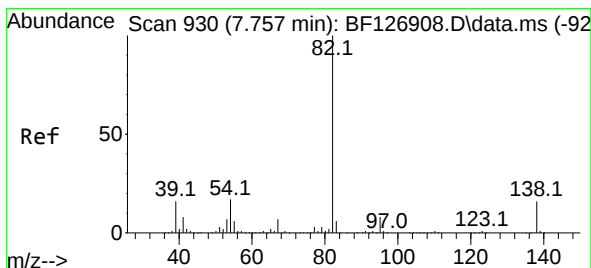
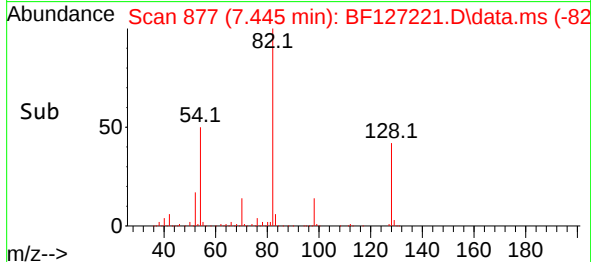
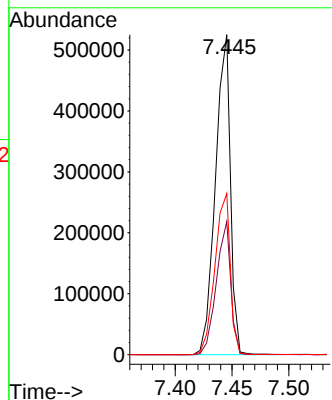
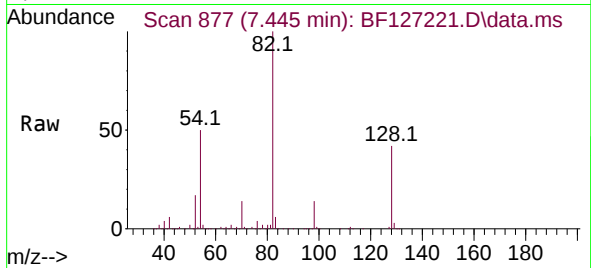




#23
Nitrobenzene-d5
Concen: 68.609 ng
RT: 7.445 min Scan# 81
Delta R.T. -0.006 min
Lab File: BF127221.D
Acq: 07 Mar 2022 14:02

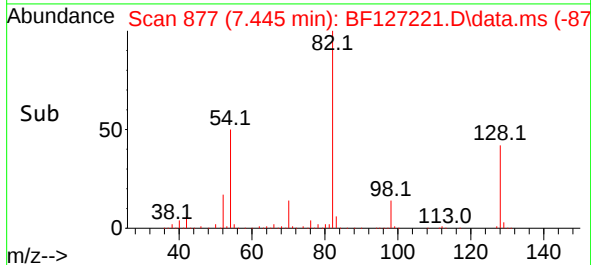
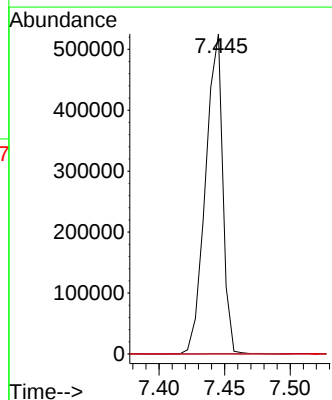
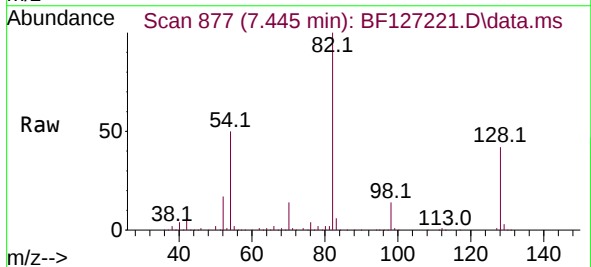
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01

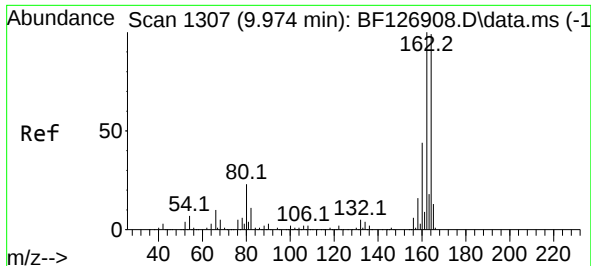
Tgt Ion: 82 Resp: 481947
Ion Ratio Lower Upper
82 100
128 41.6 32.7 49.1
54 50.3 41.7 62.5



#25
Isophorone
Concen: 41.380 ng
RT: 7.445 min Scan# 877
Delta R.T. -0.259 min
Lab File: BF127221.D
Acq: 07 Mar 2022 14:02

Tgt Ion: 82 Resp: 480989
Ion Ratio Lower Upper
82 100
95 0.0 5.0 7.4#
138 0.0 12.3 18.5#





#39

Acenaphthene-d10

Concen: 20.000 ng

RT: 9.922 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01

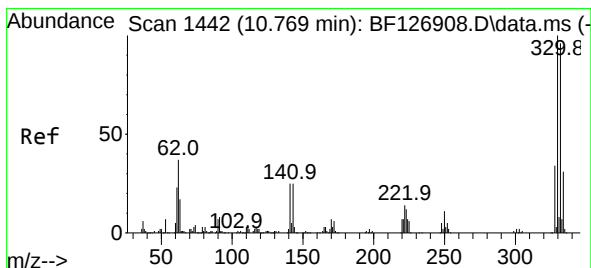
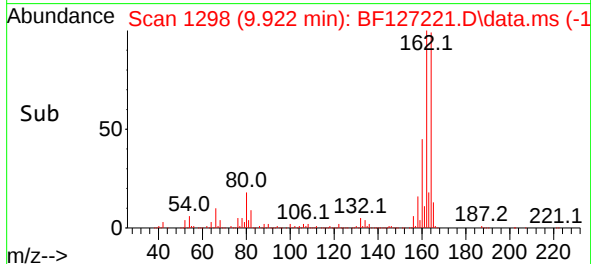
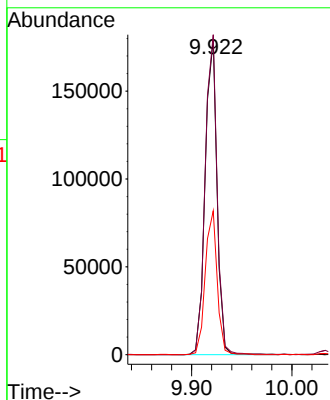
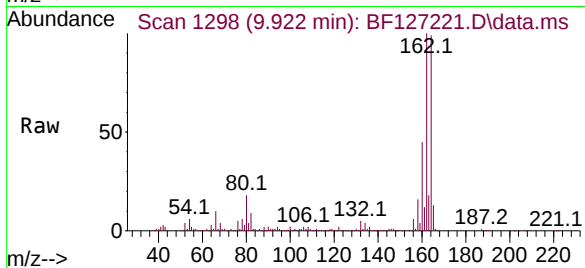
Tgt Ion:164 Resp: 148303

Ion Ratio Lower Upper

164 100

162 101.5 81.4 122.0

160 45.6 36.6 54.8



#42

2,4,6-Tribromophenol

Concen: 105.448 ng

RT: 10.716 min Scan# 1433

Delta R.T. -0.000 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

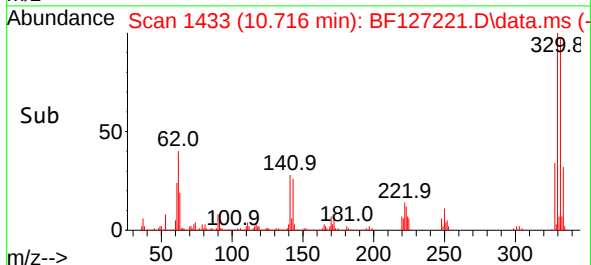
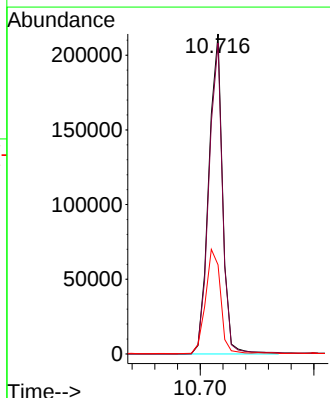
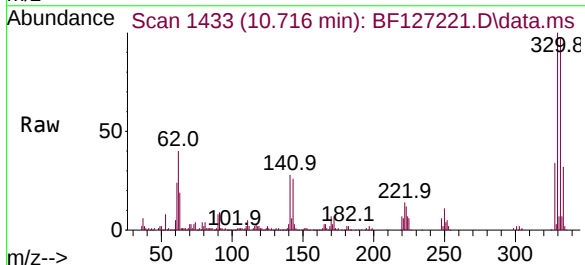
Tgt Ion:330 Resp: 180054

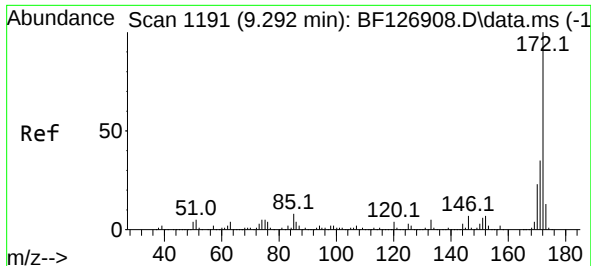
Ion Ratio Lower Upper

330 100

332 97.5 76.0 114.0

141 35.4 30.1 45.1





#45

2-Fluorobiphenyl

Concen: 67.619 ng

RT: 9.239 min Scan# 1191

Delta R.T. -0.000 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

Instrument :

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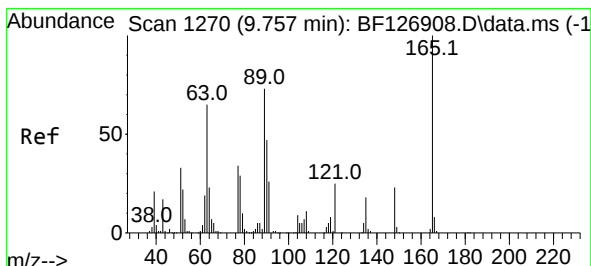
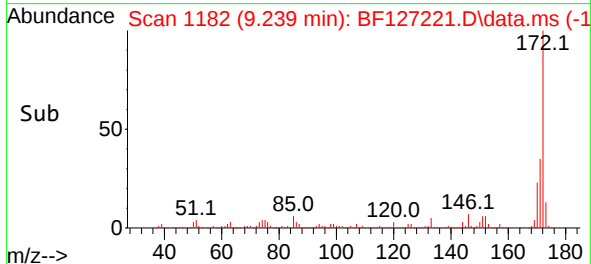
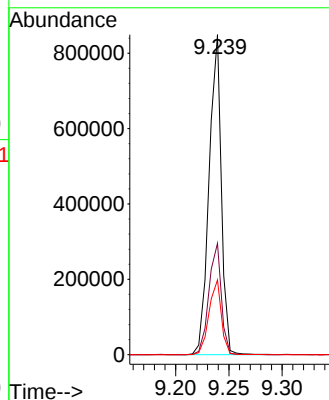
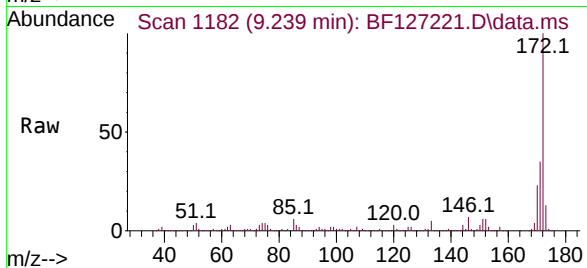
Tgt Ion:172 Resp: 681190

Ion Ratio Lower Upper

172 100

171 34.8 28.3 42.5

170 23.4 19.0 28.6



#51

2,6-Dinitrotoluene

Concen: 9.246 ng

RT: 9.922 min Scan# 1298

Delta R.T. 0.212 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

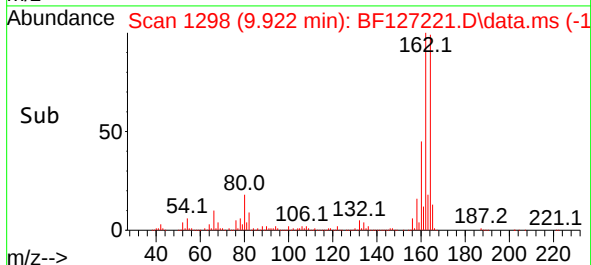
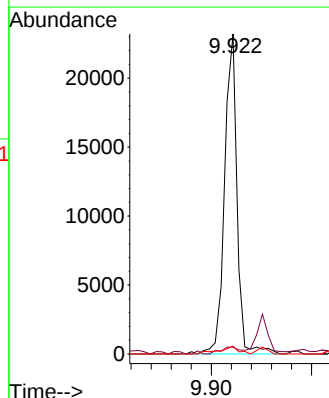
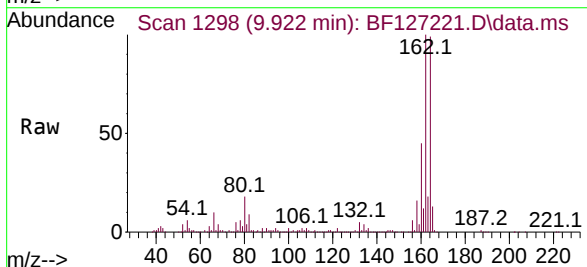
Tgt Ion:165 Resp: 19940

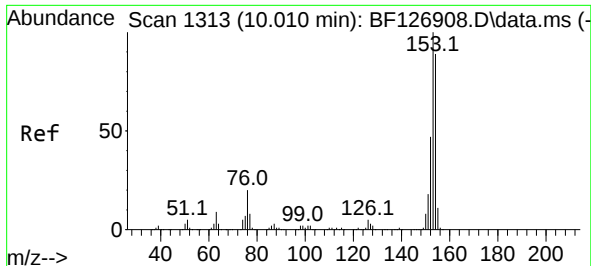
Ion Ratio Lower Upper

165 100

63 2.1 48.4 72.6#

89 2.4 50.5 75.7#

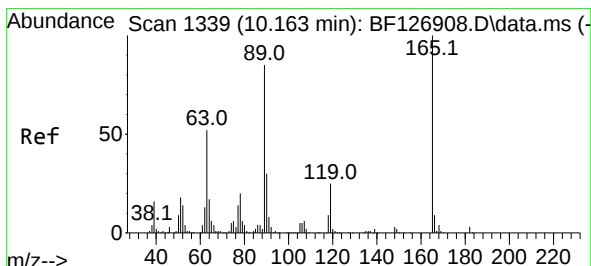
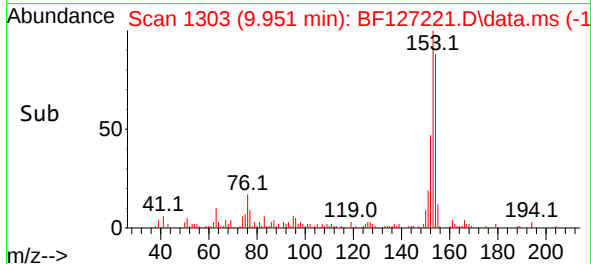
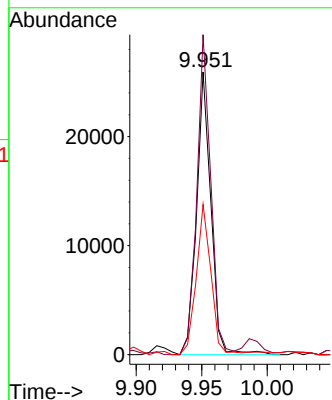
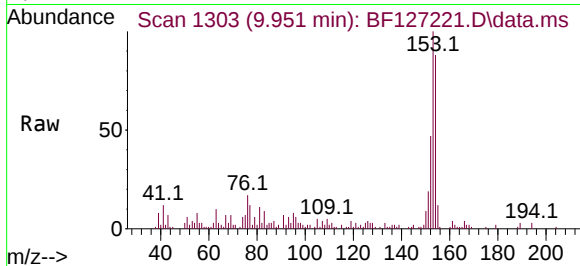




#52
Acenaphthene
Concen: 2.154 ng
RT: 9.951 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF127221.D
Acq: 07 Mar 2022 14:02

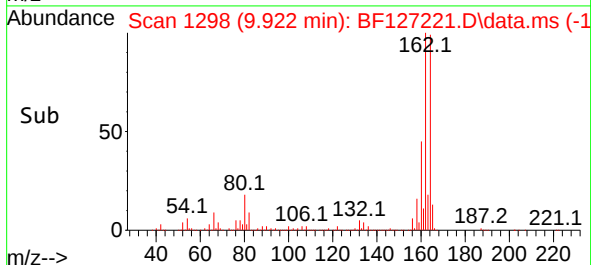
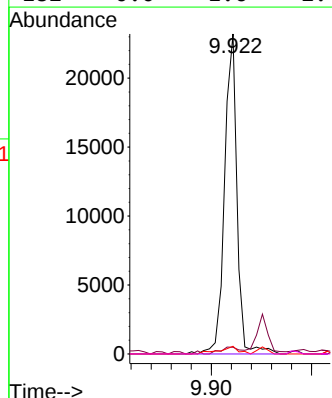
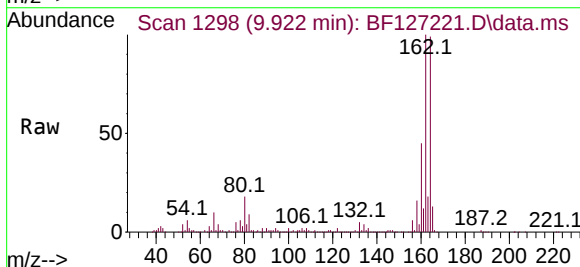
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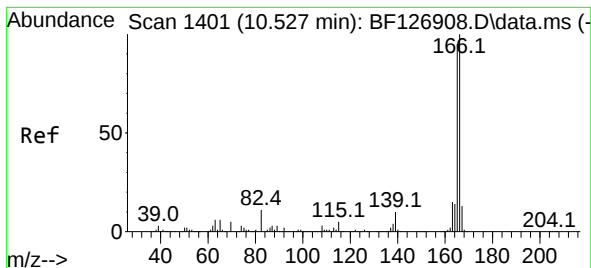
Tgt Ion:154 Resp: 19830
Ion Ratio Lower Upper
154 100
153 113.2 87.8 131.6
152 53.1 39.4 59.2



#57
2,4-Dinitrotoluene
Concen: 6.838 ng
RT: 9.922 min Scan# 1298
Delta R.T. -0.194 min
Lab File: BF127221.D
Acq: 07 Mar 2022 14:02

Tgt Ion:165 Resp: 19940
Ion Ratio Lower Upper
165 100
63 2.1 43.0 64.6#
89 2.4 71.0 106.4#
182 0.0 1.6 2.4#





#58

Fluorene

Concen: 3.057 ng

RT: 10.469 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01

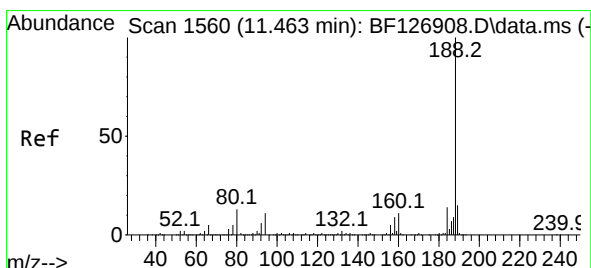
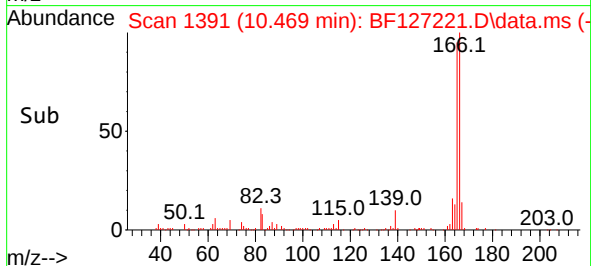
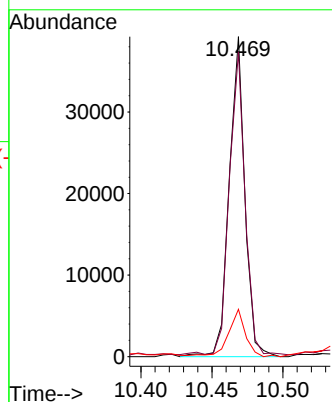
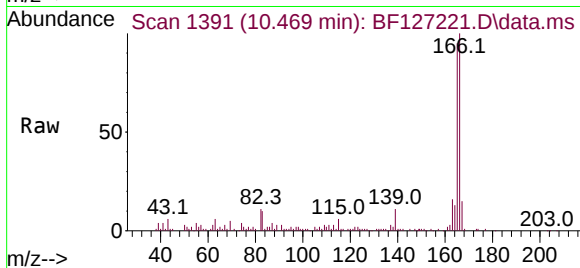
Tgt Ion:166 Resp: 30144

Ion Ratio Lower Upper

166 100

165 95.2 77.7 116.5

167 14.8 10.7 16.1



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.410 min Scan# 1551

Delta R.T. -0.006 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

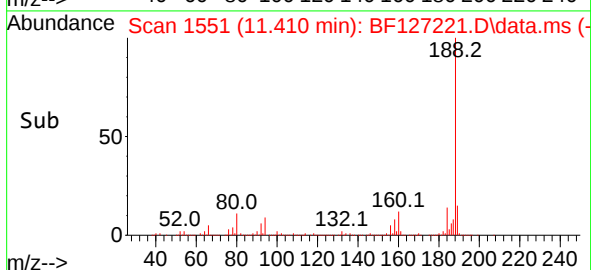
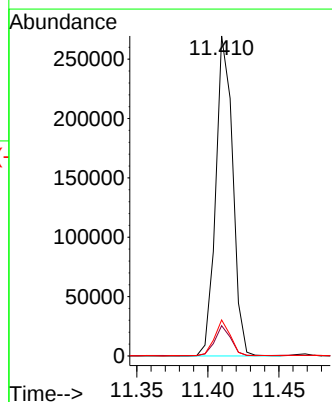
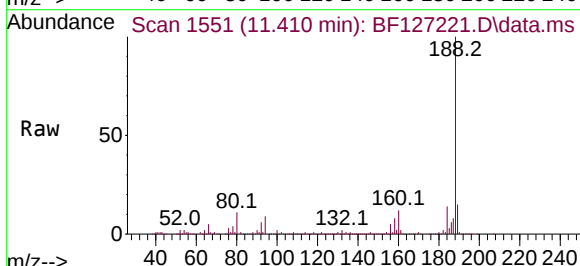
Tgt Ion:188 Resp: 223541

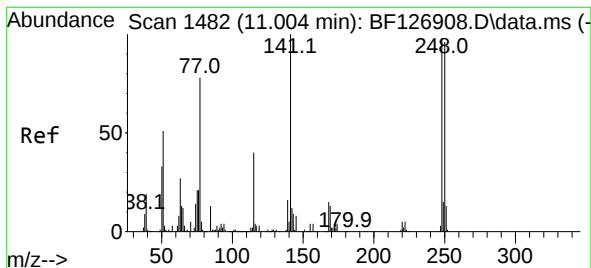
Ion Ratio Lower Upper

188 100

94 9.5 10.1 15.1#

80 11.2 11.8 17.6#

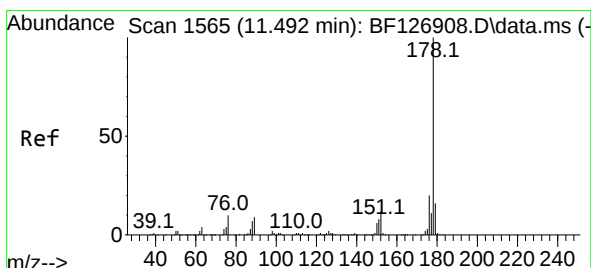
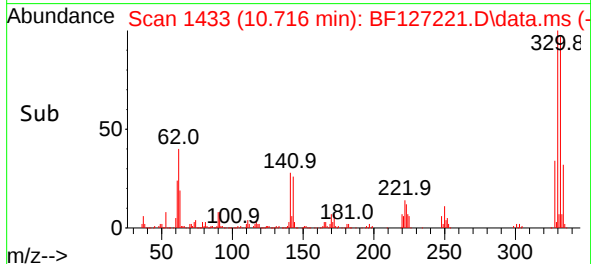
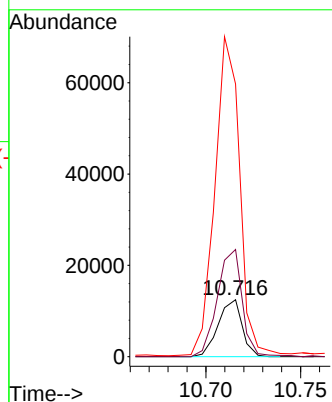
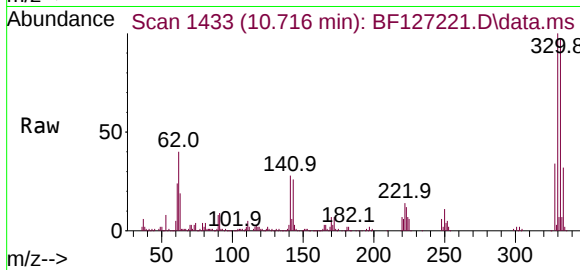




#67
4-Bromophenyl-phenylether
Concen: 4.400 ng
RT: 10.716 min Scan# 1482
Delta R.T. -0.241 min
Lab File: BF127221.D
Acq: 07 Mar 2022 14:02

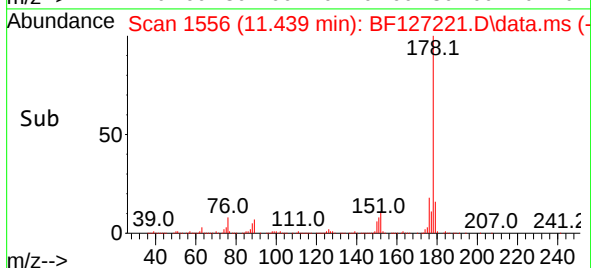
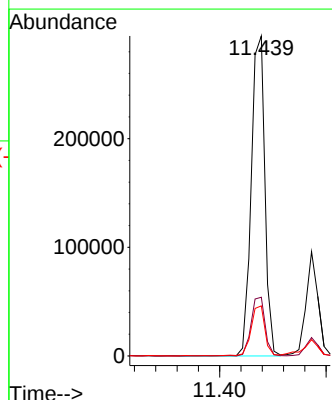
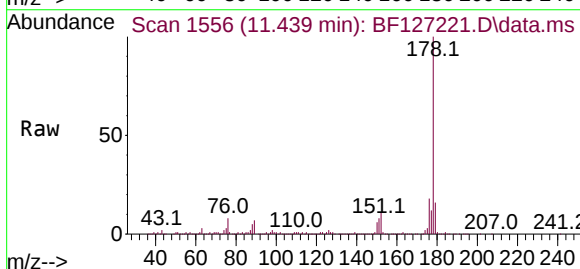
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01

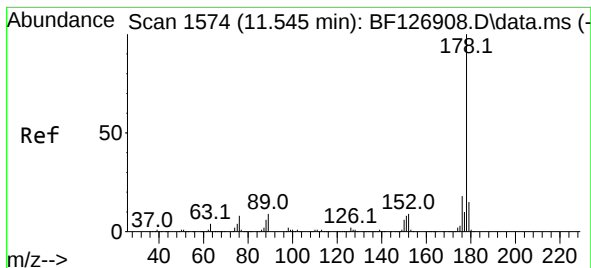
Tgt Ion:248 Resp: 10990
Ion Ratio Lower Upper
248 100
250 188.0 76.2 114.4#
141 478.4 66.2 99.4#



#71
Phenanthrene
Concen: 20.921 ng
RT: 11.439 min Scan# 1556
Delta R.T. -0.000 min
Lab File: BF127221.D
Acq: 07 Mar 2022 14:02

Tgt Ion:178 Resp: 261760
Ion Ratio Lower Upper
178 100
176 18.4 15.7 23.5
179 15.6 12.3 18.5





#72

Anthracene

Concen: 5.869 ng

RT: 11.486 min Scan# 1591

Delta R.T. -0.006 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01

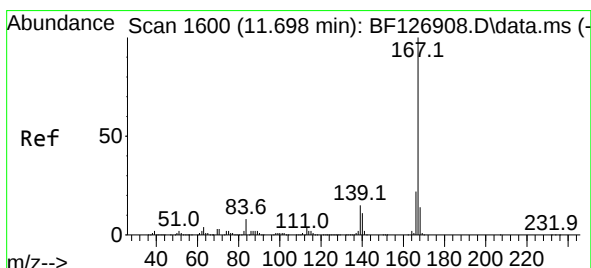
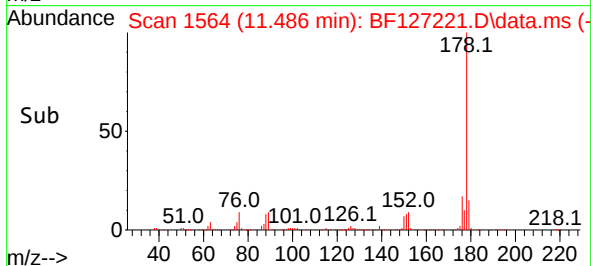
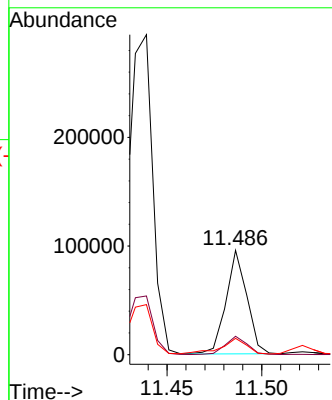
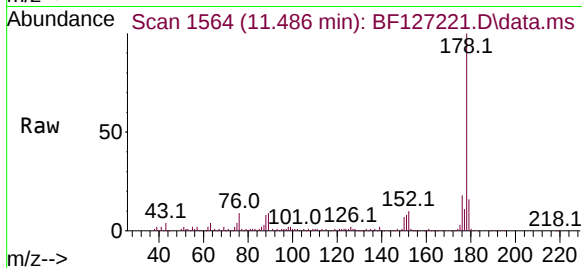
Tgt Ion:178 Resp: 73098

Ion Ratio Lower Upper

178 100

176 17.7 15.0 22.6

179 15.7 12.5 18.7



#73

Carbazole

Concen: 2.134 ng

RT: 11.645 min Scan# 1591

Delta R.T. -0.006 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

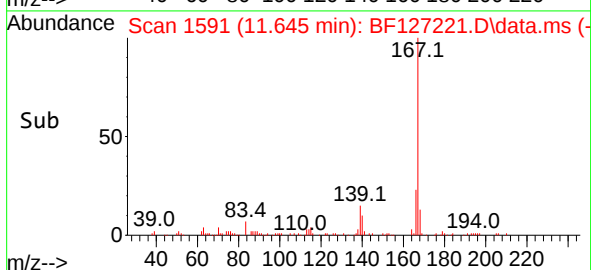
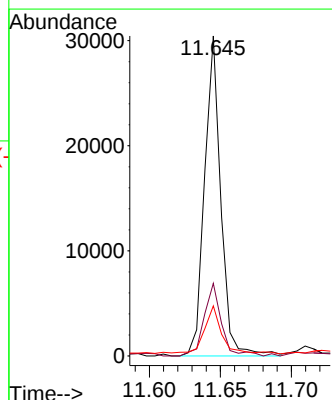
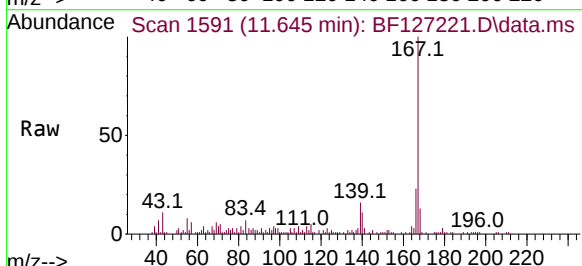
Tgt Ion:167 Resp: 24377

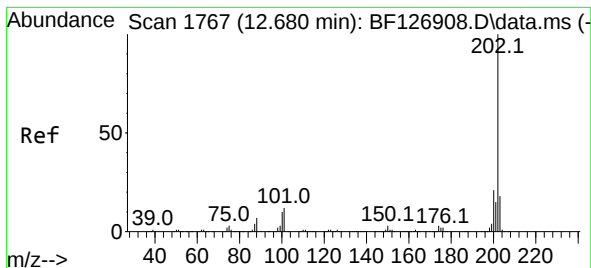
Ion Ratio Lower Upper

167 100

166 22.7 16.9 25.3

139 15.6 11.3 16.9





#75

Fluoranthene

Concen: 23.562 ng

RT: 12.627 min Scan# 11

Delta R.T. -0.006 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01

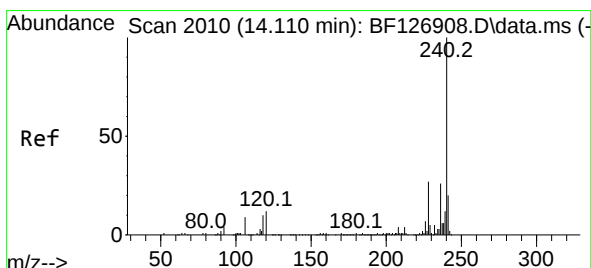
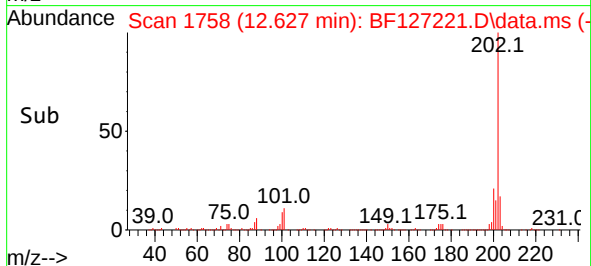
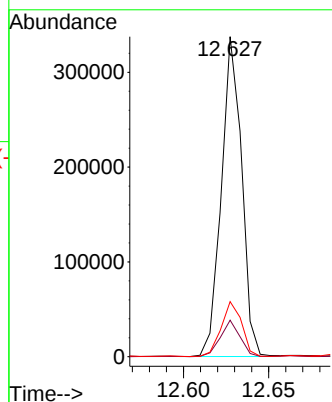
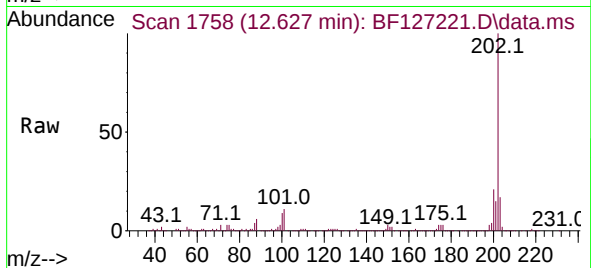
Tgt Ion:202 Resp: 279927

Ion Ratio Lower Upper

202 100

101 11.4 0.0 35.7

203 17.2 0.0 37.1



#76

Chrysene-d12

Concen: 20.000 ng

RT: 14.057 min Scan# 2001

Delta R.T. -0.006 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

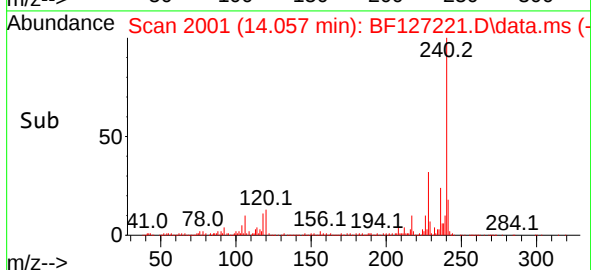
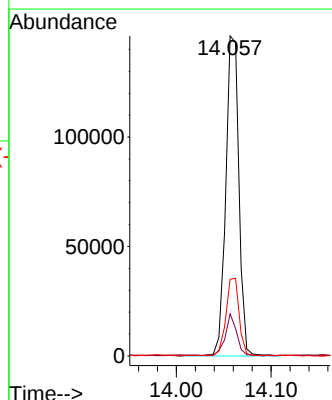
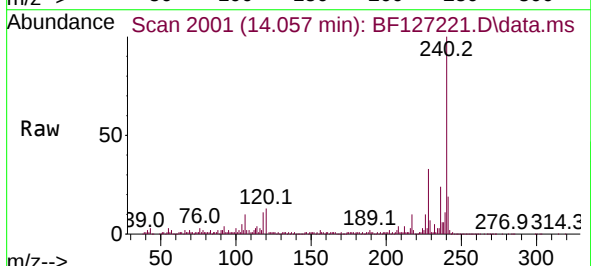
Tgt Ion:240 Resp: 141811

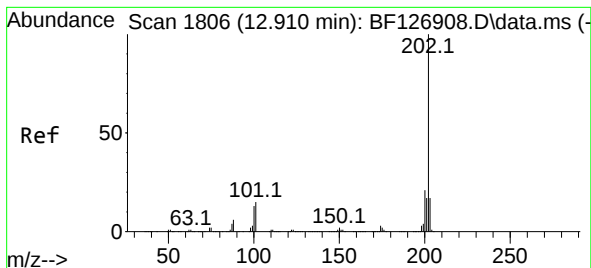
Ion Ratio Lower Upper

240 100

120 13.1 14.4 21.6#

236 23.9 20.5 30.7





#78

Pyrene

Concen: 18.752 ng

RT: 12.857 min Scan# 1

Delta R.T. -0.006 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01

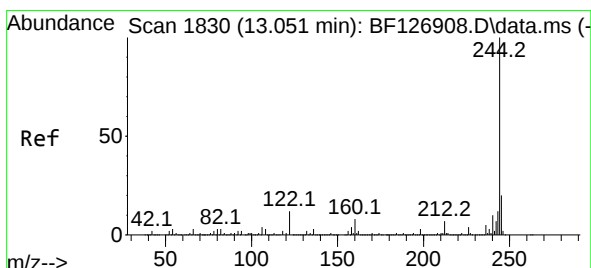
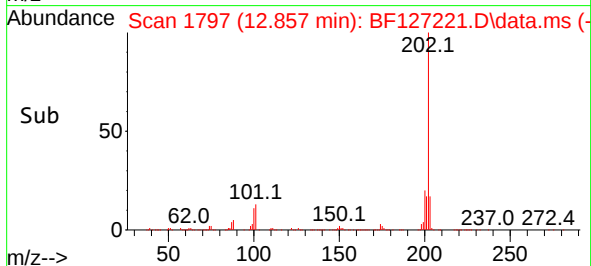
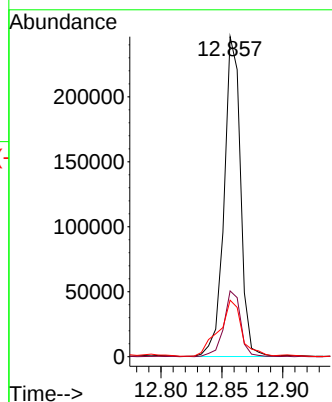
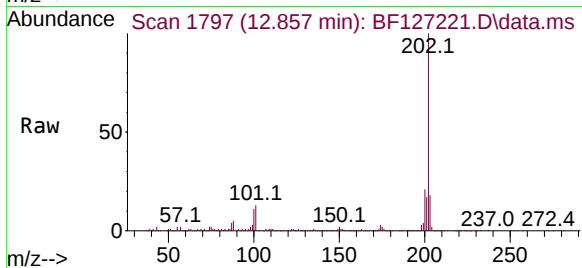
Tgt Ion:202 Resp: 231027

Ion Ratio Lower Upper

202 100

200 20.5 16.6 24.8

203 17.6 13.8 20.8



#79

Terphenyl-d14

Concen: 47.777 ng

RT: 12.998 min Scan# 1821

Delta R.T. -0.000 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

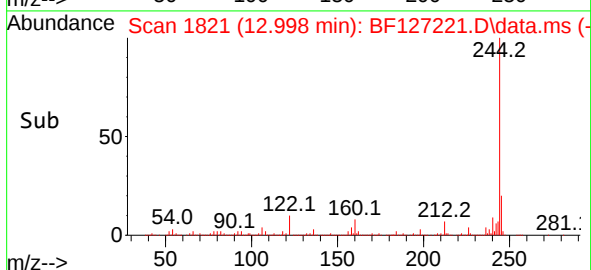
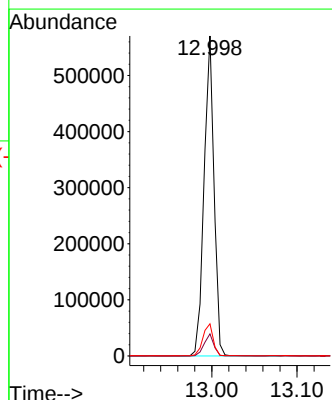
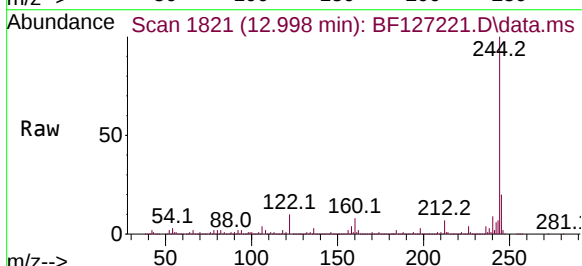
Tgt Ion:244 Resp: 460892

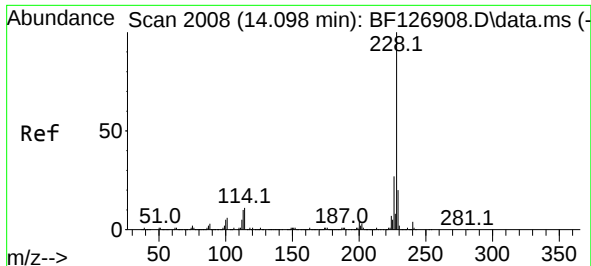
Ion Ratio Lower Upper

244 100

212 6.9 5.0 7.4

122 10.0 13.3 19.9#

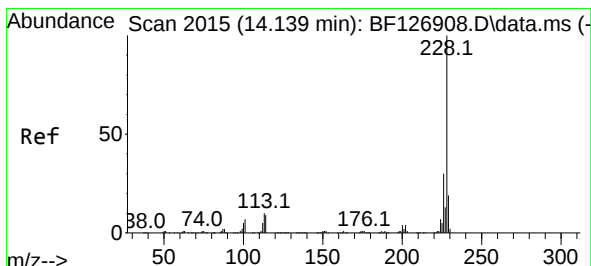
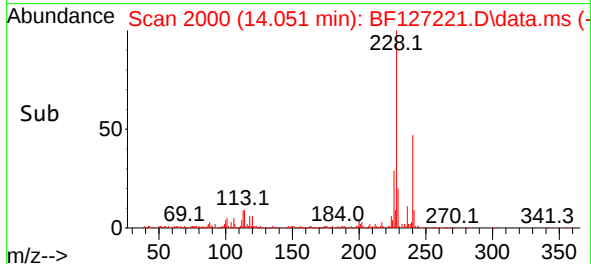
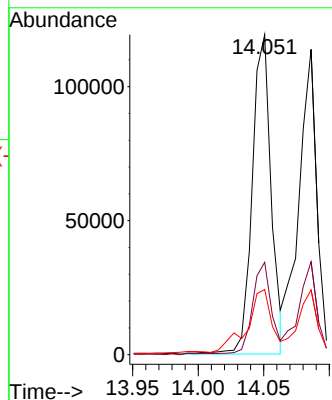
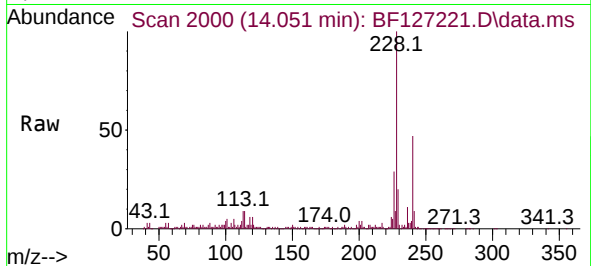




#81
Benzo(a)anthracene
Concen: 12.491 ng
RT: 14.051 min Scan# 2000
Delta R.T. -0.000 min
Lab File: BF127221.D
Acq: 07 Mar 2022 14:02

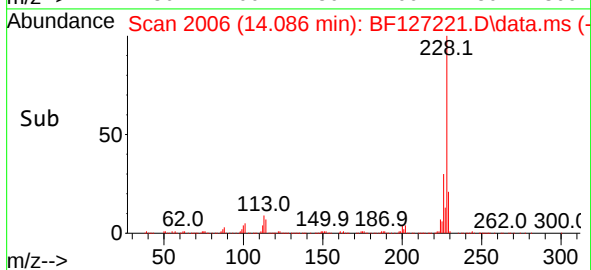
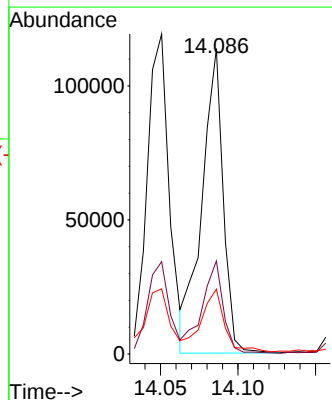
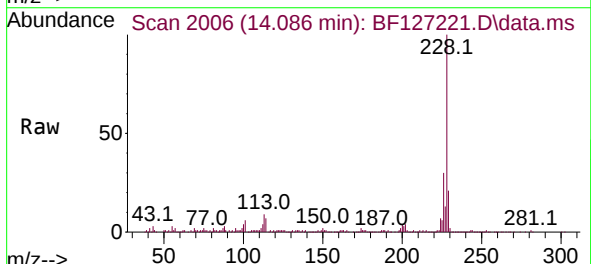
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01

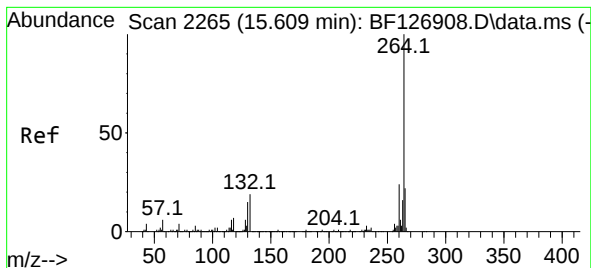
Tgt Ion:228 Resp: 119416
Ion Ratio Lower Upper
228 100
226 28.8 21.4 32.0
229 20.4 15.4 23.2



#83
Chrysene
Concen: 12.123 ng
RT: 14.086 min Scan# 2006
Delta R.T. -0.000 min
Lab File: BF127221.D
Acq: 07 Mar 2022 14:02

Tgt Ion:228 Resp: 108985
Ion Ratio Lower Upper
228 100
226 30.4 23.7 35.5
229 21.2 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.551 min Scan# 21

Delta R.T. 0.006 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01

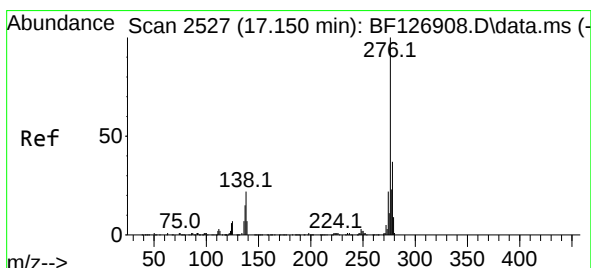
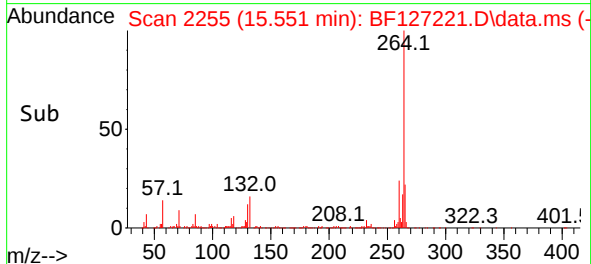
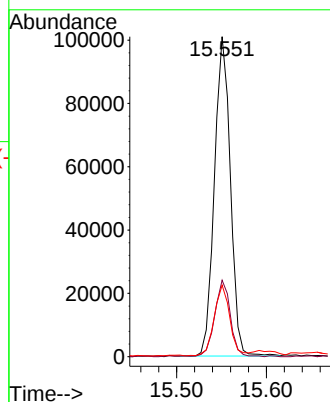
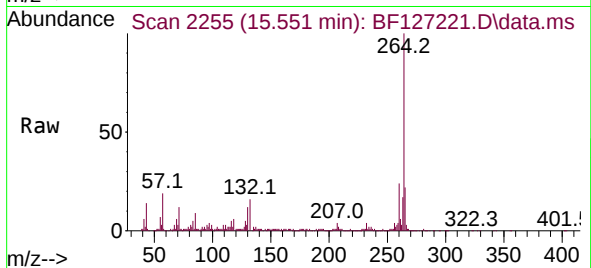
Tgt Ion:264 Resp: 124804

Ion Ratio Lower Upper

264 100

260 23.9 19.2 28.8

265 22.4 17.4 26.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 6.430 ng

RT: 17.062 min Scan# 2512

Delta R.T. 0.006 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

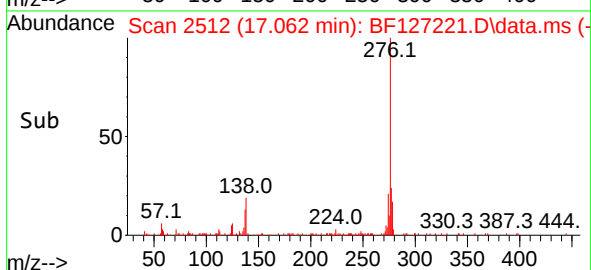
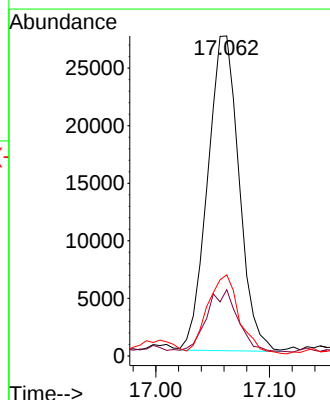
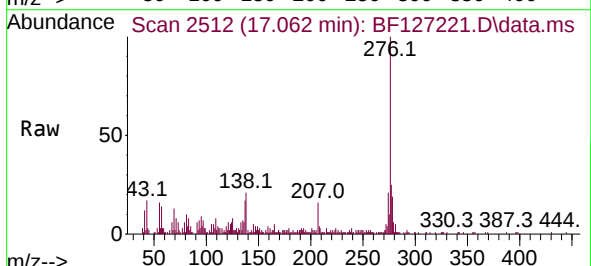
Tgt Ion:276 Resp: 52620

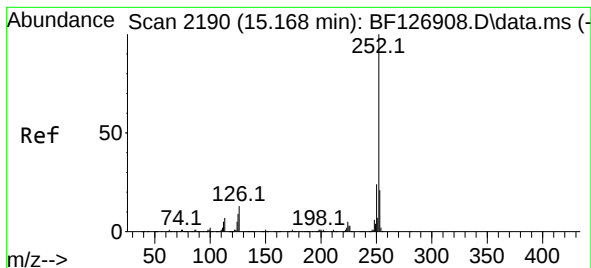
Ion Ratio Lower Upper

276 100

138 19.8 29.2 43.8#

277 25.4 19.8 29.8





#88

Benzo(b)fluoranthene

Concen: 22.693 ng

RT: 15.109 min Scan# 2180

Delta R.T. -0.000 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01

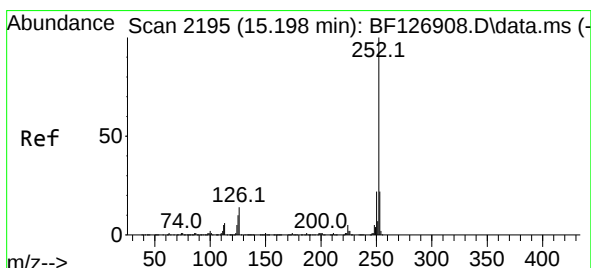
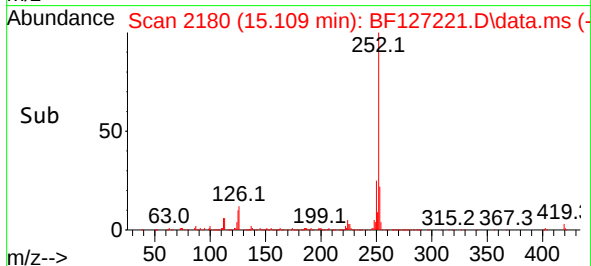
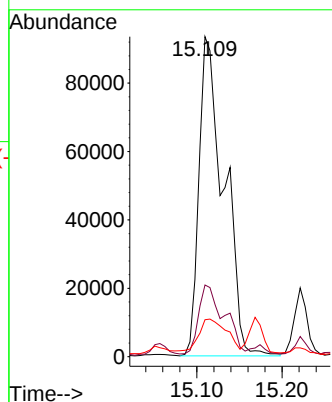
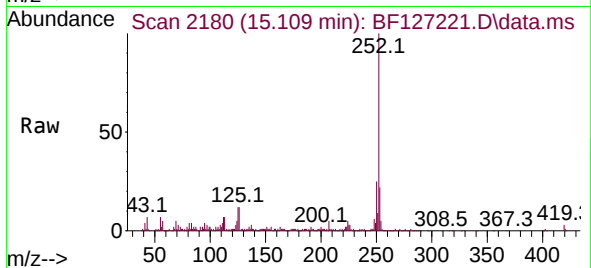
Tgt Ion:252 Resp: 190217

Ion Ratio Lower Upper

252 100

253 22.4 17.8 26.8

125 11.6 12.4 18.6#



#89

Benzo(k)fluoranthene

Concen: 23.527 ng

RT: 15.109 min Scan# 2180

Delta R.T. -0.030 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

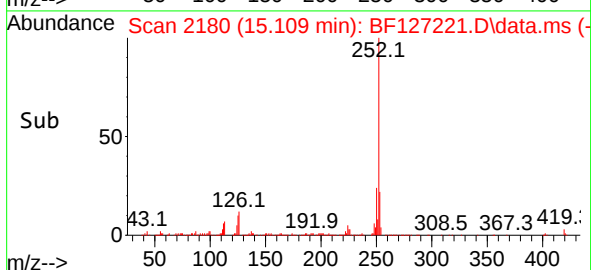
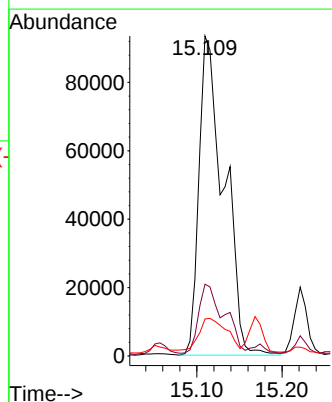
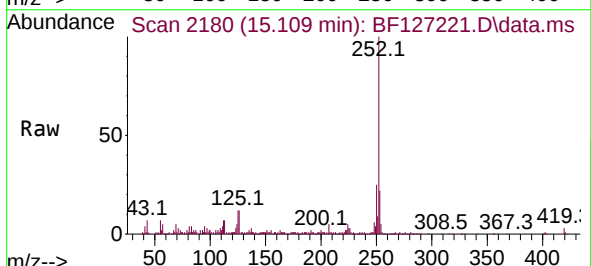
Tgt Ion:252 Resp: 190217

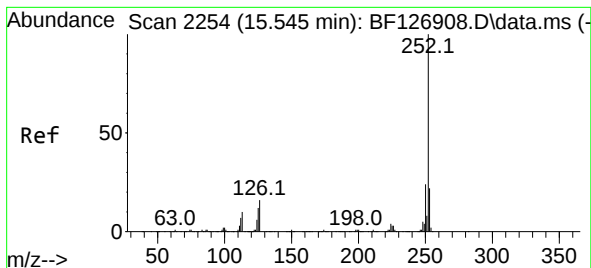
Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

125 11.6 11.8 17.6#





#90

Benzo(a)pyrene

Concen: 9.740 ng

RT: 15.421 min Scan# 21

Delta R.T. -0.065 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01

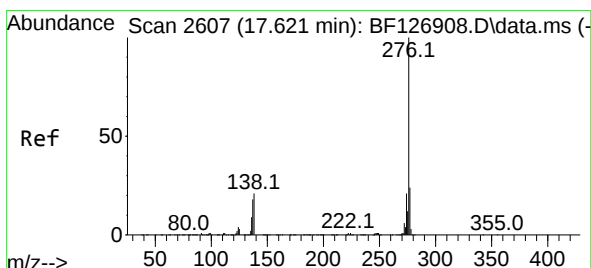
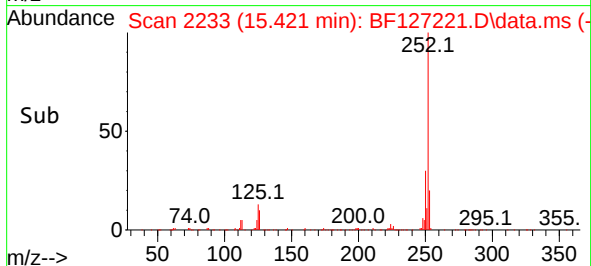
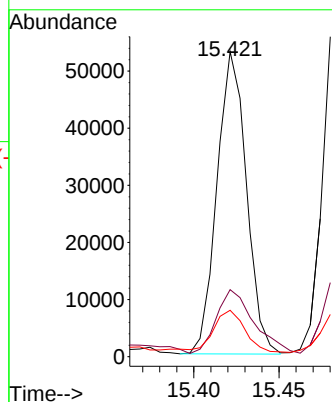
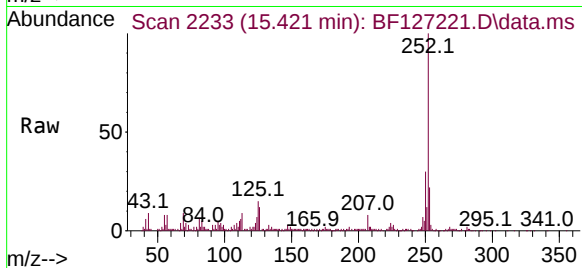
Tgt Ion:252 Resp: 63773

Ion Ratio Lower Upper

252 100

253 22.0 17.1 25.7

125 15.2 13.0 19.6



#92

Benzo(g,h,i)perylene

Concen: 7.843 ng

RT: 17.521 min Scan# 2590

Delta R.T. -0.000 min

Lab File: BF127221.D

Acq: 07 Mar 2022 14:02

Tgt Ion:276 Resp: 52336

Ion Ratio Lower Upper

276 100

277 26.5 18.5 27.7

138 21.5 25.9 38.9#

