

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030722\
 Data File : BF127223.D
 Acq On : 07 Mar 2022 15:31
 Operator : CG\JU
 Sample : N1731-02DL 2X
 Misc :
 ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Mar 07 16:17:10 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)

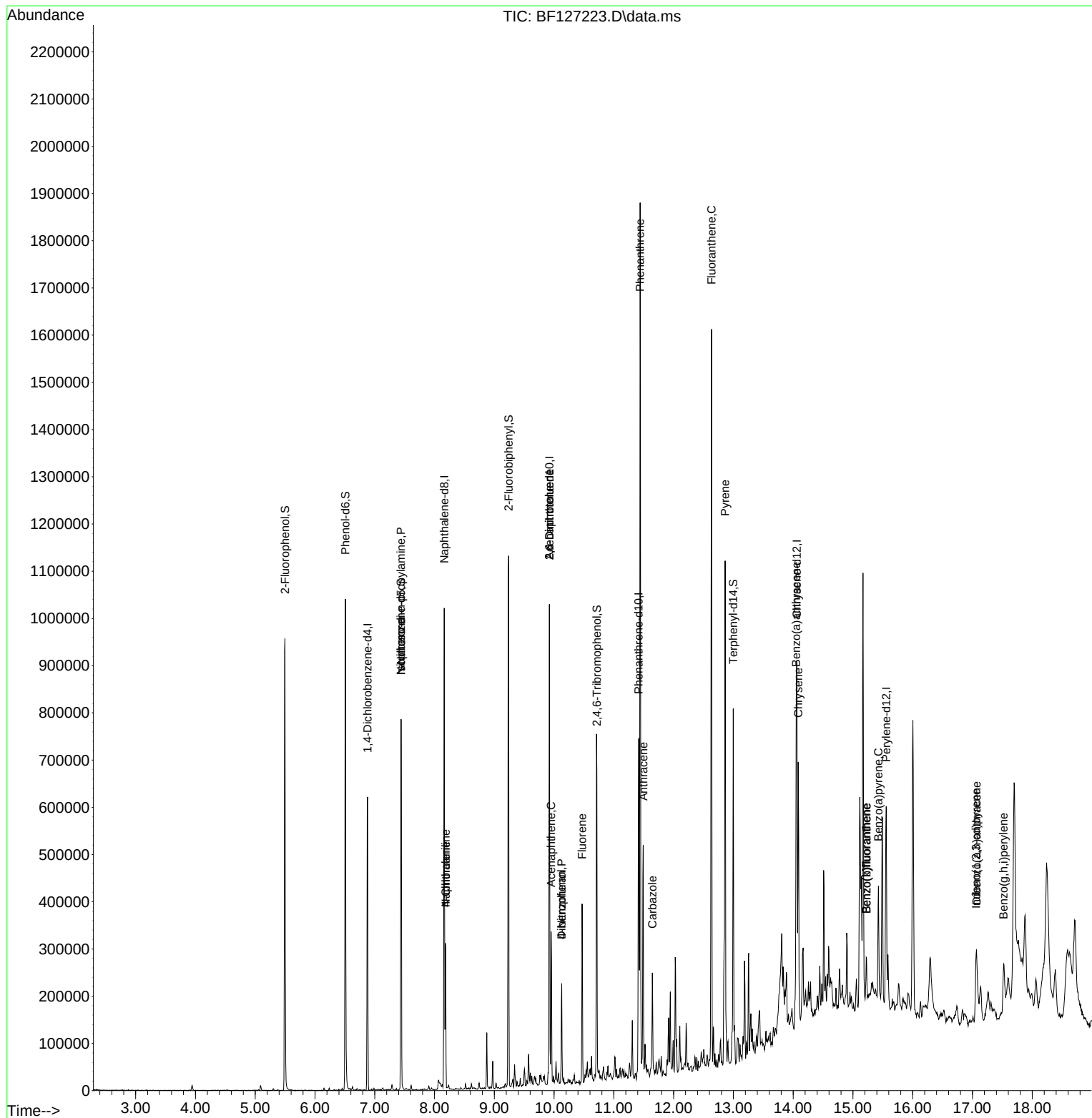
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.881	152	88437	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	378043	20.000	ng	# 0.00
39) Acenaphthene-d10	9.922	164	175288	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	245960	20.000	ng	# 0.00
76) Chrysene-d12	14.063	240	161538	20.000	ng	# 0.00
86) Perylene-d12	15.557	264	168156	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	244028	42.648	ng	0.00
7) Phenol-d6	6.510	99	316853	41.038	ng	0.00
23) Nitrobenzene-d5	7.440	82	226497	27.043	ng	-0.01
42) 2,4,6-Tribromophenol	10.716	330	77979	38.638	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	321047	26.963	ng	0.00
79) Terphenyl-d14	12.998	244	209751	19.088	ng	0.00
Target Compounds						Qvalue
19) n-Nitroso-di-n-propyla...	7.440	70	30107	6.051	ng	# 81
25) Isophorone	7.440	82	226495	16.343	ng	# 69
31) Naphthalene	8.187	128	124336	6.300	ng	99
33) 4-Chloroaniline	8.187	127	16678	2.147	ng	# 37
51) 2,6-Dinitrotoluene	9.922	165	24388	9.567	ng	# 22
52) Acenaphthene	9.951	154	56933	5.233	ng	97
55) Dibenzofuran	10.128	168	68183	4.558	ng	93
56) 4-Nitrophenol	10.128	139	30603	13.297	ng	# 7
57) 2,4-Dinitrotoluene	9.922	165	24388	7.076	ng	# 16
58) Fluorene	10.469	166	89468	7.678	ng	99
71) Phenanthrene	11.439	178	632696	45.958	ng	99
72) Anthracene	11.492	178	173988	12.695	ng	99
73) Carbazole	11.645	167	70080	5.576	ng	97
75) Fluoranthene	12.633	202	532715	40.753	ng	94
78) Pyrene	12.863	202	405908	28.923	ng	99
81) Benzo(a)anthracene	14.051	228	225299	20.688	ng	98
83) Chrysene	14.086	228	193666	18.911	ng	96
87) Indeno(1,2,3-cd)pyrene	17.062	276	96148	8.720	ng	# 83
88) Benzo(b)fluoranthene	15.227	252	41711	3.693	ng	96
89) Benzo(k)fluoranthene	15.227	252	41711	3.829	ng	96
90) Benzo(a)pyrene	15.427	252	119515	13.548	ng	96
91) Dibenzo(a,h)anthracene	17.068	278	25012	2.743	ng	96
92) Benzo(g,h,i)perylene	17.521	276	86673	9.641	ng	# 85

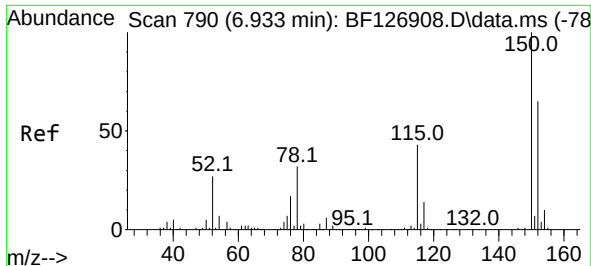
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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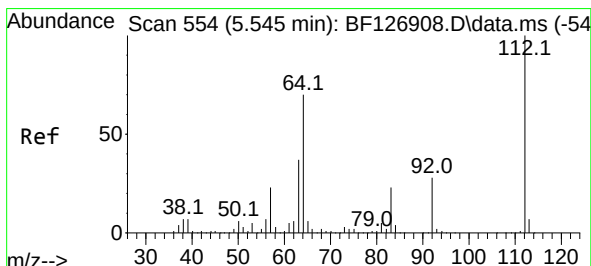
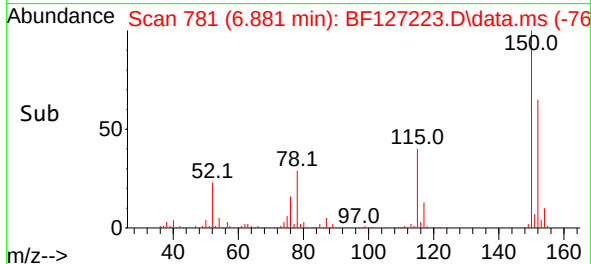
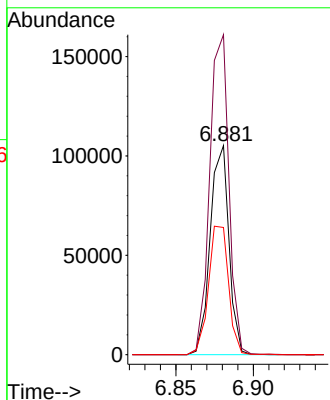
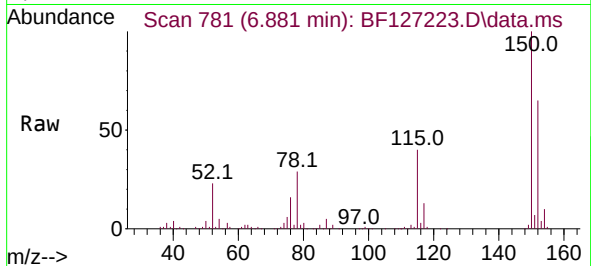




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

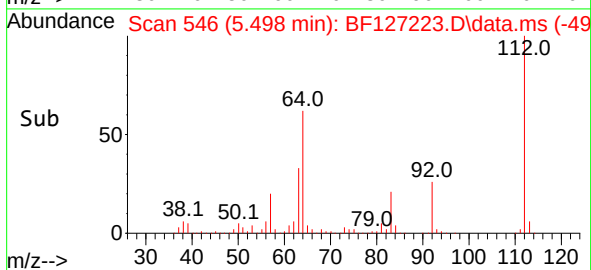
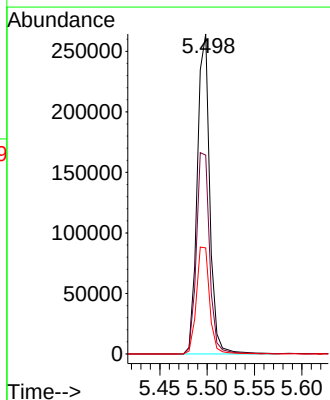
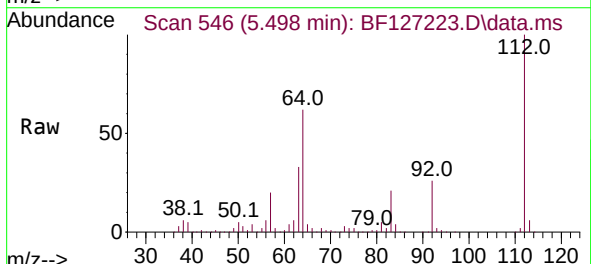
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01ADL

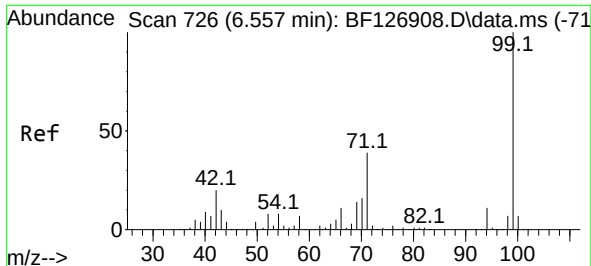
Tgt Ion:152 Resp: 88437
Ion Ratio Lower Upper
152 100
150 153.0 128.1 192.1
115 60.8 56.7 85.1



#5
2-Fluorophenol
Concen: 42.648 ng
RT: 5.498 min Scan# 546
Delta R.T. -0.000 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

Tgt Ion:112 Resp: 244028
Ion Ratio Lower Upper
112 100
64 62.1 49.5 74.3
63 33.2 23.9 35.9

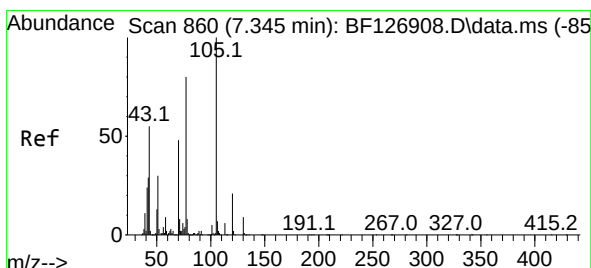
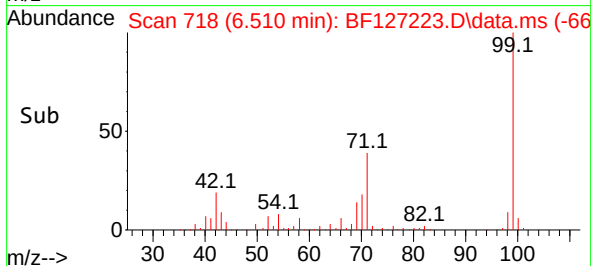
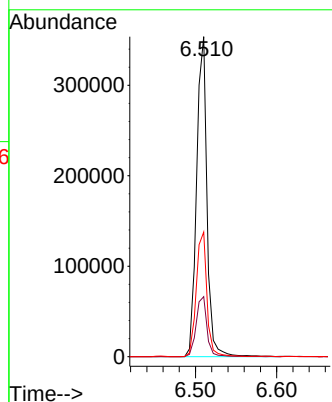
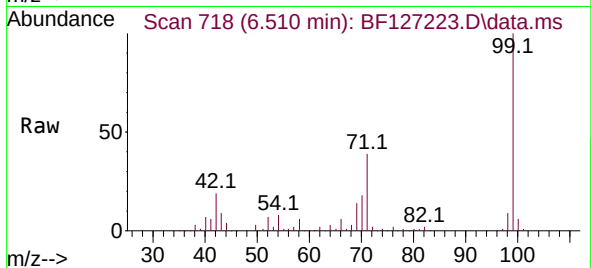




#7
Phenol-d6
Concen: 41.038 ng
RT: 6.510 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

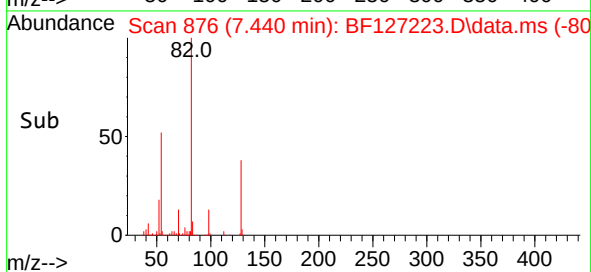
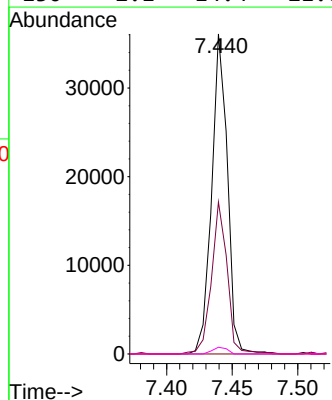
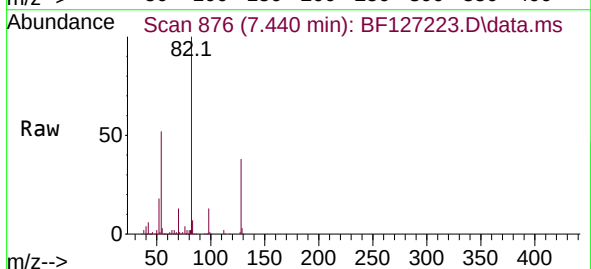
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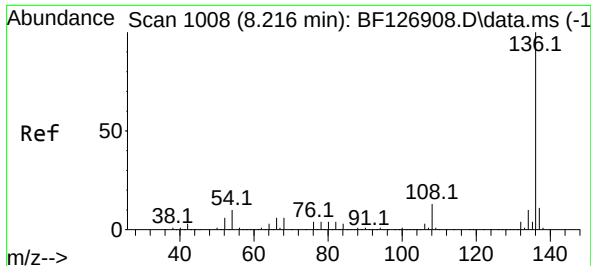
Tgt Ion: 99 Resp: 316853
Ion Ratio Lower Upper
99 100
42 18.8 14.2 21.4
71 38.9 24.3 36.5#



#19
n-Nitroso-di-n-propylamine
Concen: 6.051 ng
RT: 7.440 min Scan# 876
Delta R.T. 0.147 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

Tgt Ion: 70 Resp: 30107
Ion Ratio Lower Upper
70 100
42 47.5 45.8 68.8
101 0.0 6.9 10.3#
130 2.1 14.4 21.6#

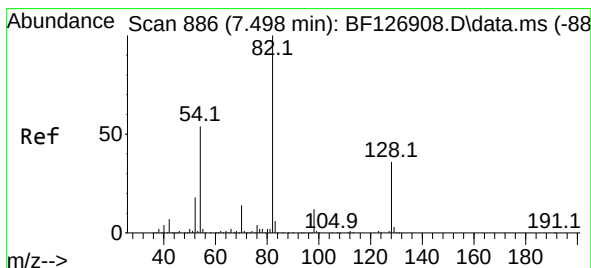
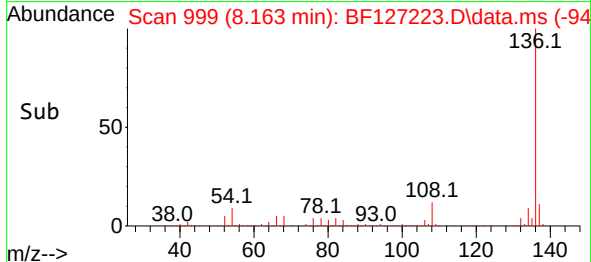
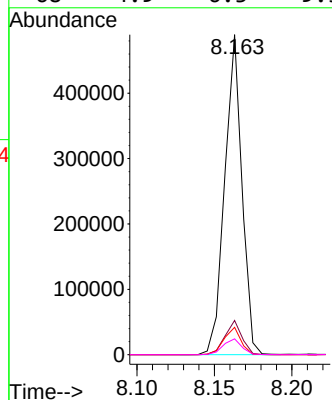
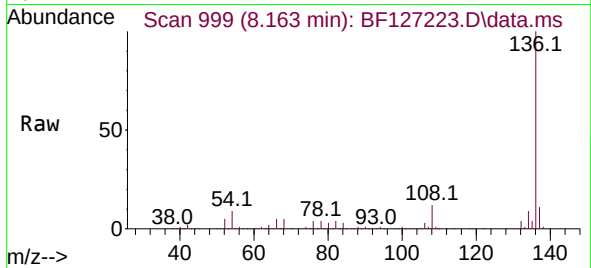




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 91
Delta R.T. -0.000 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

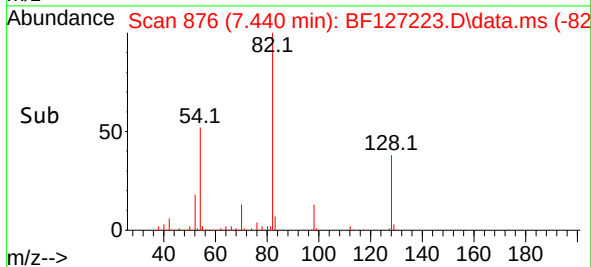
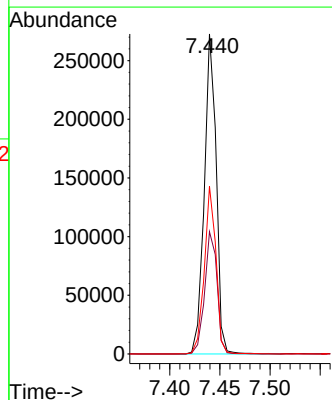
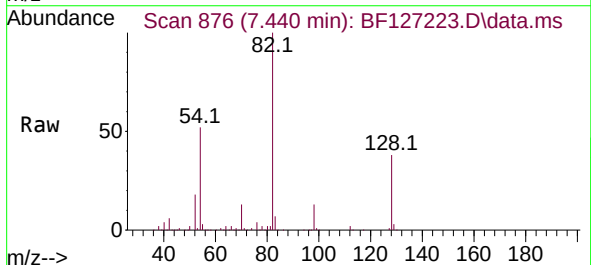
Instrument :
BNA_F
ClientSampleId :
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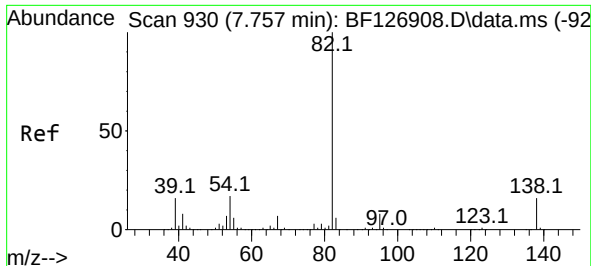
Tgt	Ion:136	Resp:	378043
Ion	Ratio	Lower	Upper
136	100		
137	10.7	8.6	13.0
54	8.5	7.8	11.6
68	4.9	6.3	9.5#



#23
Nitrobenzene-d5
Concen: 27.043 ng
RT: 7.440 min Scan# 876
Delta R.T. -0.012 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

Tgt Ion: 82	Resp: 226497
Ion Ratio	Lower Upper
82 100	
128 38.2	32.7 49.1
54 52.4	41.7 62.5

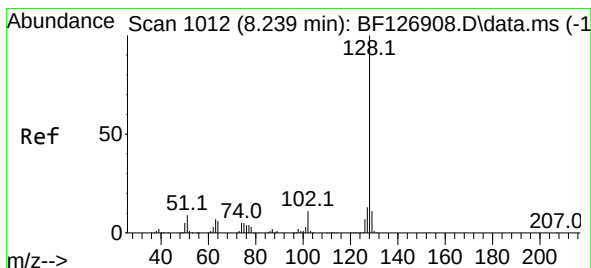
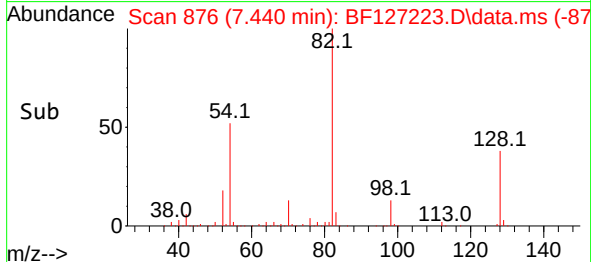
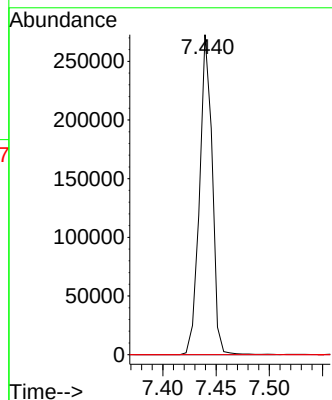
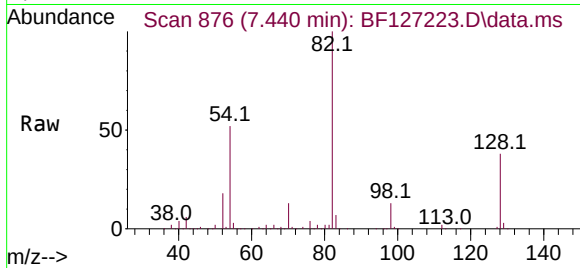




#25
Isophorone
Concen: 16.343 ng
RT: 7.440 min Scan# 81
Delta R.T. -0.265 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

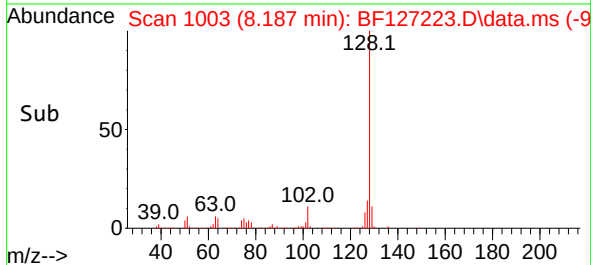
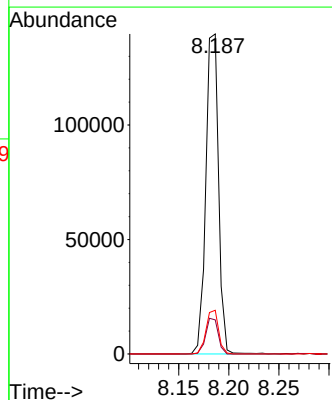
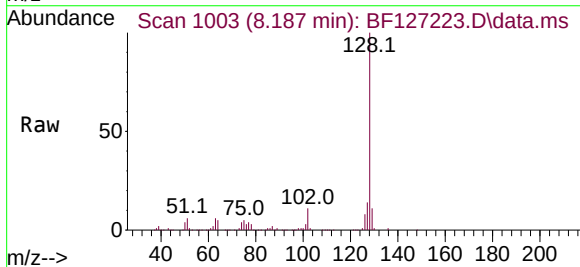
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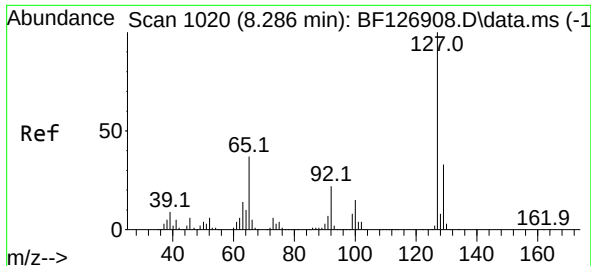
Tgt Ion: 82 Resp: 226495
Ion Ratio Lower Upper
82 100
95 0.0 5.0 7.4#
138 0.0 12.3 18.5#



#31
Naphthalene
Concen: 6.300 ng
RT: 8.187 min Scan# 1003
Delta R.T. -0.000 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

Tgt Ion: 128 Resp: 124336
Ion Ratio Lower Upper
128 100
129 10.6 8.6 13.0
127 13.6 10.3 15.5

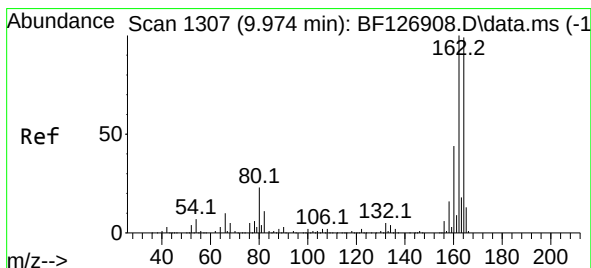
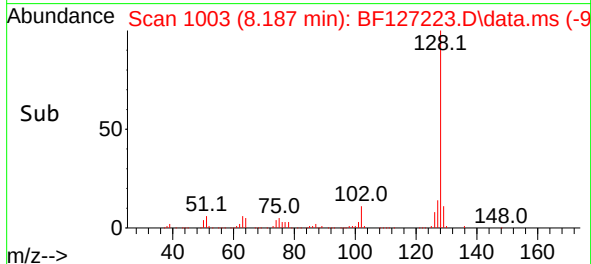
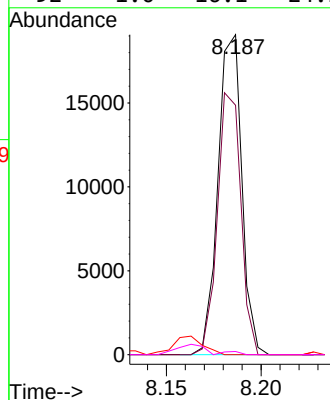
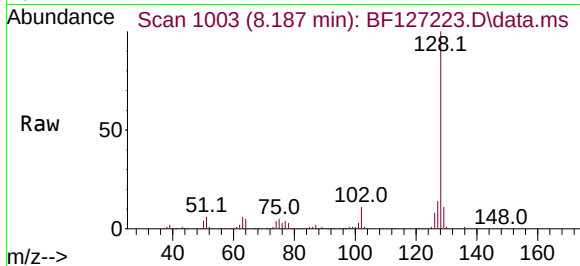




#33
4-Chloroaniline
Concen: 2.147 ng
RT: 8.187 min Scan# 11
Delta R.T. -0.047 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

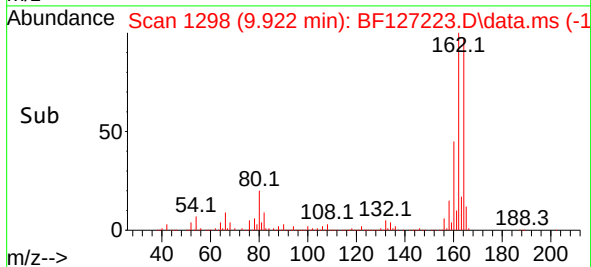
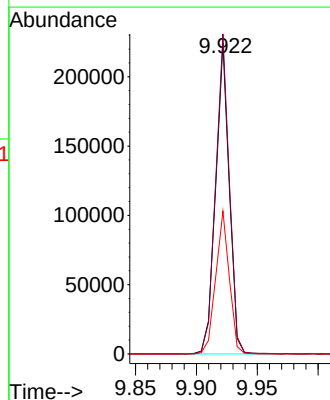
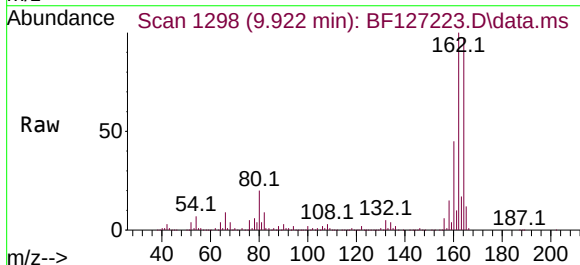
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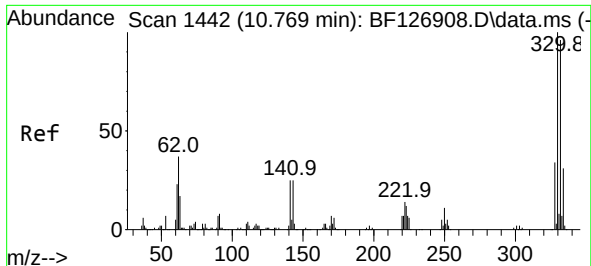
Tgt Ion:127	Resp:	16678
Ion Ratio	Lower	Upper
127	100	
129	78.0	26.5 39.7#
65	0.0	26.6 39.8#
92	1.0	16.1 24.1#



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1298
Delta R.T. -0.000 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

Tgt Ion:164	Resp:	175288
Ion Ratio	Lower	Upper
164	100	
162	103.1	81.4 122.0
160	46.0	36.6 54.8

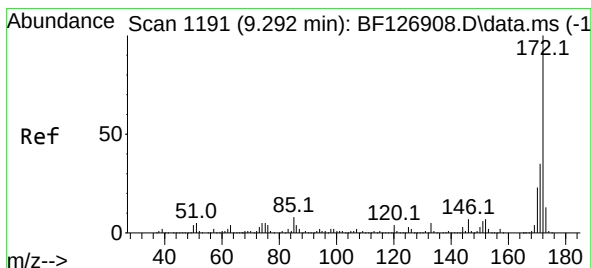
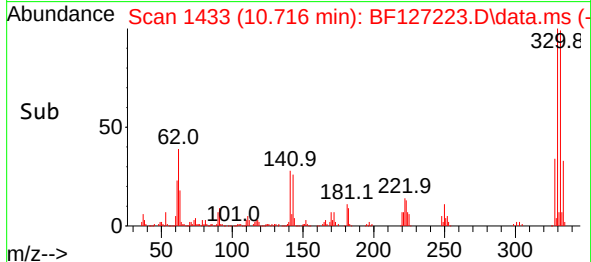
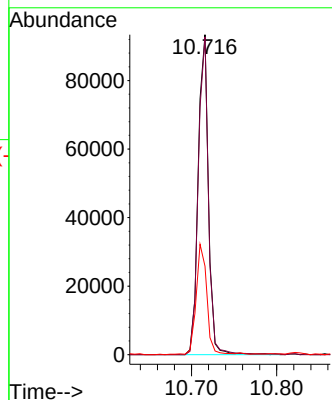
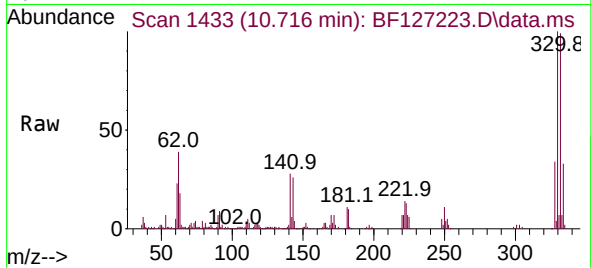




#42
2,4,6-Tribromophenol
Concen: 38.638 ng
RT: 10.716 min Scan# 1442
Delta R.T. -0.000 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

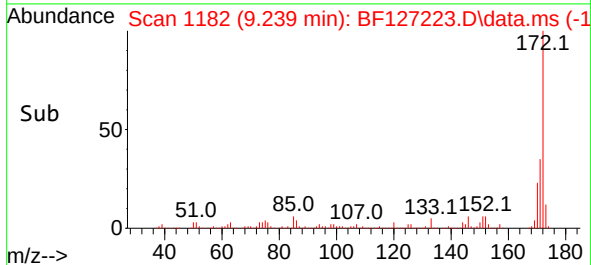
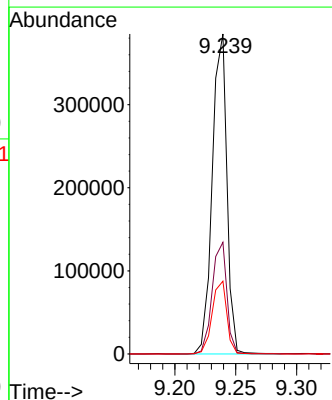
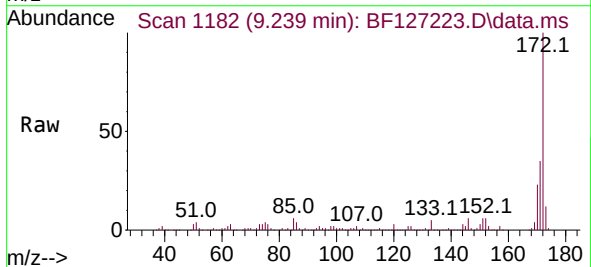
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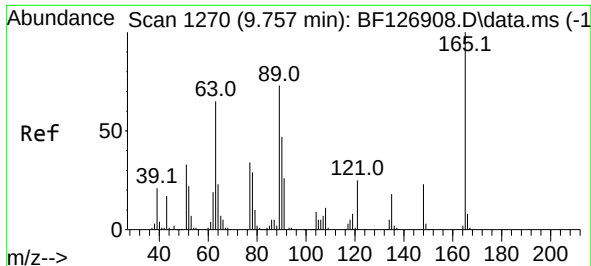
Tgt Ion: 330 Resp: 77979
Ion Ratio Lower Upper
330 100
332 98.0 76.0 114.0
141 36.2 30.1 45.1



#45
2-Fluorobiphenyl
Concen: 26.963 ng
RT: 9.239 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

Tgt Ion: 172 Resp: 321047
Ion Ratio Lower Upper
172 100
171 34.9 28.3 42.5
170 22.8 19.0 28.6

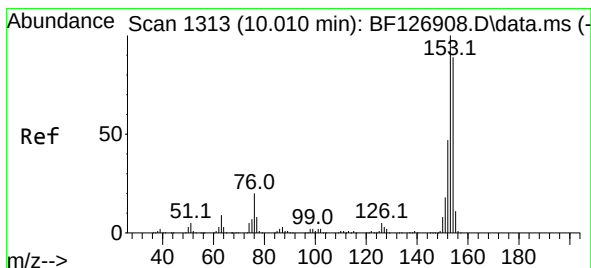
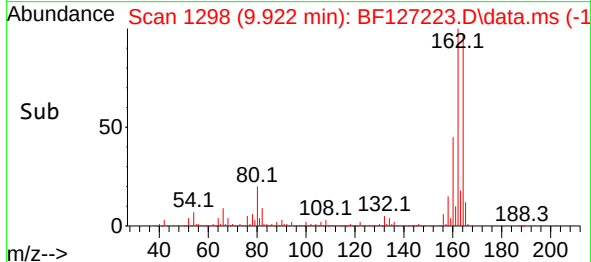
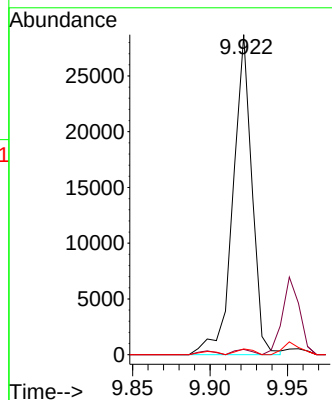
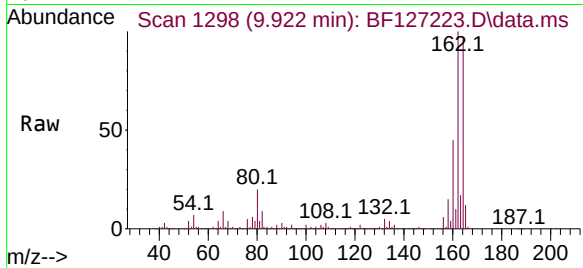




#51
2,6-Dinitrotoluene
Concen: 9.567 ng
RT: 9.922 min Scan# 1303
Delta R.T. 0.212 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

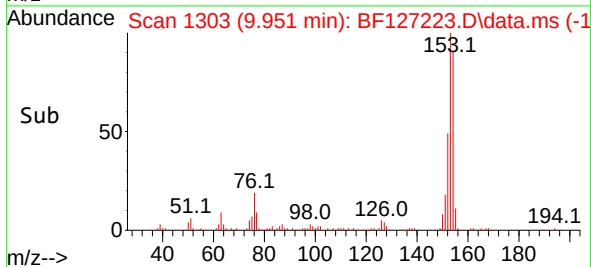
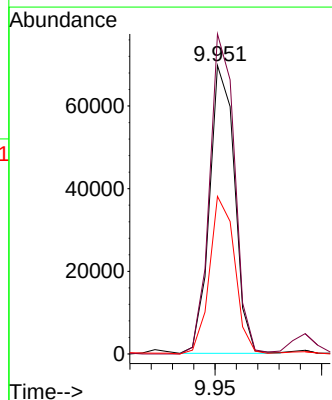
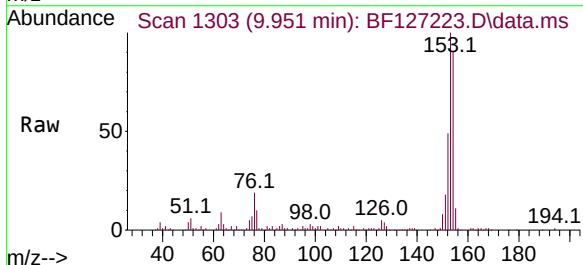
Instrument :
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VACLOT-TOPSOIL-GRILLO-01ADL

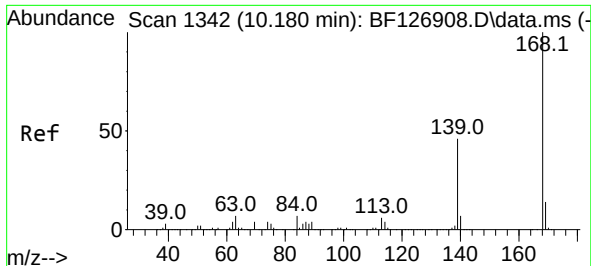
Tgt Ion:165 Resp: 24388
Ion Ratio Lower Upper
165 100
63 1.7 48.4 72.6#
89 1.8 50.5 75.7#



#52
Acenaphthene
Concen: 5.233 ng
RT: 9.951 min Scan# 1303
Delta R.T. -0.006 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

Tgt Ion:154 Resp: 56933
Ion Ratio Lower Upper
154 100
153 110.9 87.8 131.6
152 54.6 39.4 59.2

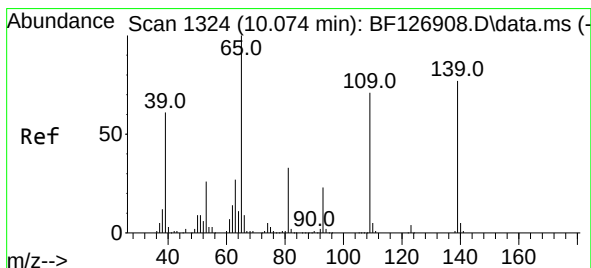
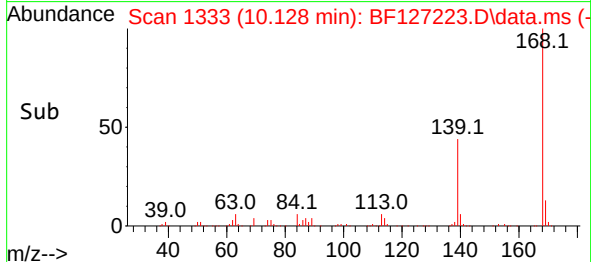
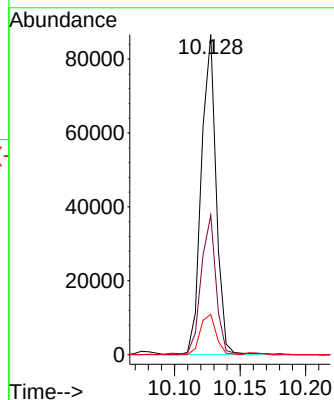
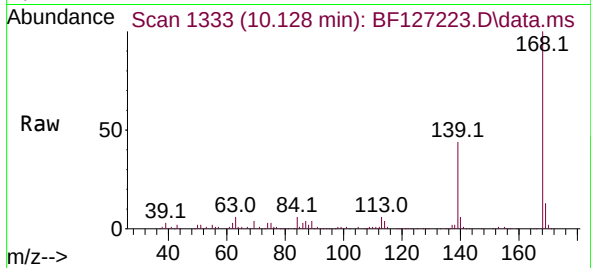




#55
Dibenzenofuran
Concen: 4.558 ng
RT: 10.128 min Scan# 1333
Delta R.T. 0.000 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

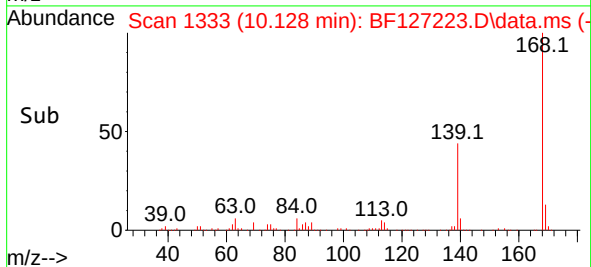
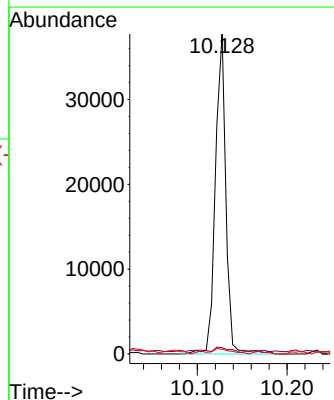
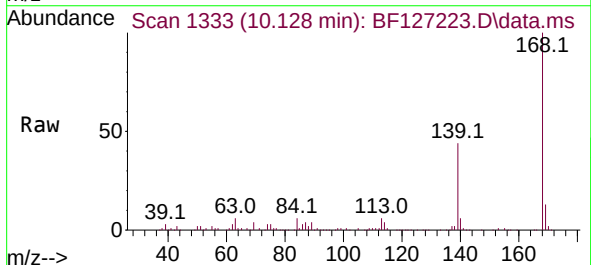
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01ADL

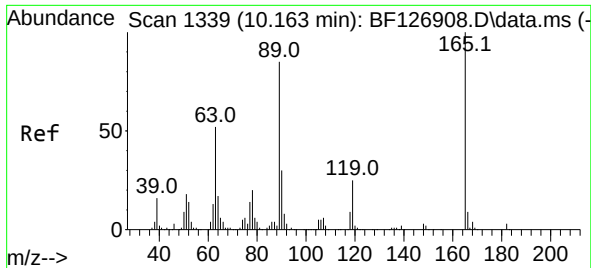
Tgt Ion:168 Resp: 68183
Ion Ratio Lower Upper
168 100
139 43.6 30.6 46.0
169 12.6 10.0 15.0



#56
4-Nitrophenol
Concen: 13.297 ng
RT: 10.128 min Scan# 1333
Delta R.T. 0.082 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

Tgt Ion:139 Resp: 30603
Ion Ratio Lower Upper
139 100
109 1.9 44.1 84.1#
65 1.5 85.5 125.5#

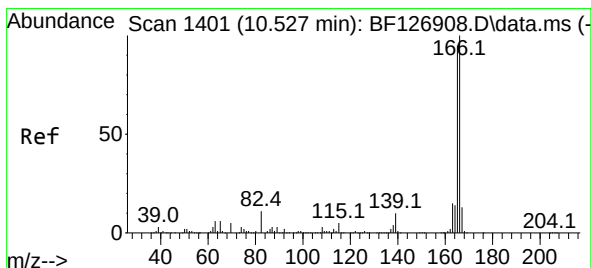
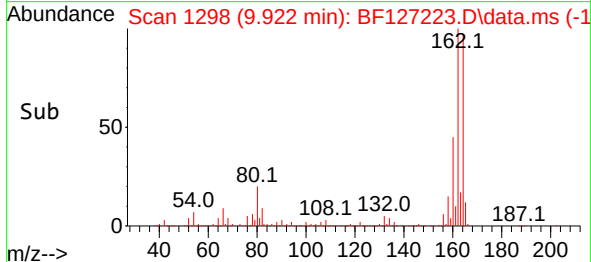
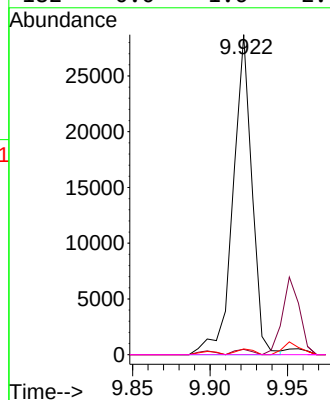
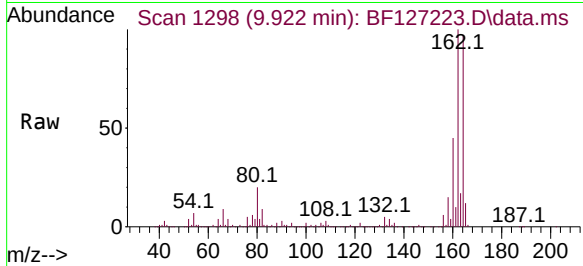




#57
2,4-Dinitrotoluene
Concen: 7.076 ng
RT: 9.922 min Scan# 1391
Delta R.T. -0.194 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

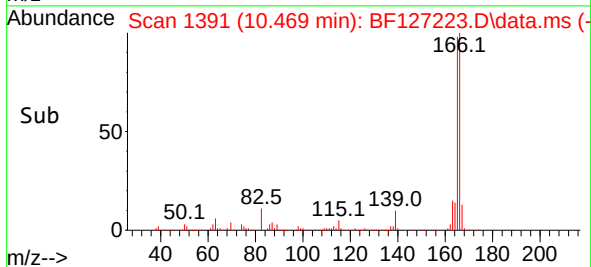
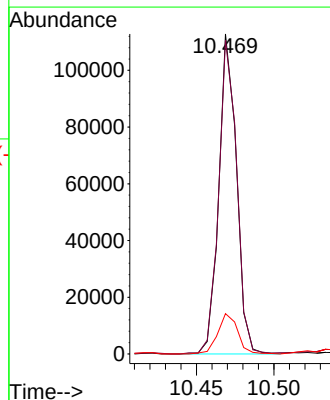
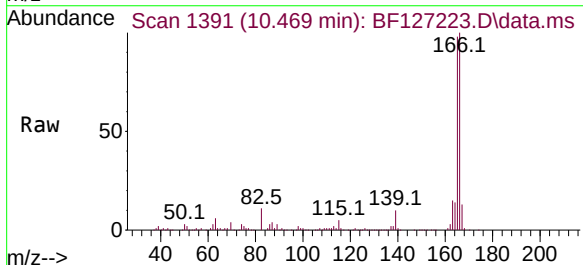
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01ADL

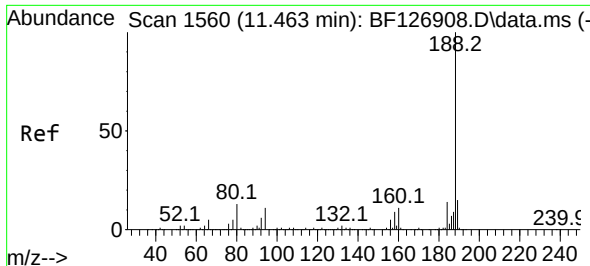
Tgt Ion:165 Resp: 24388
Ion Ratio Lower Upper
165 100
63 1.7 43.0 64.6#
89 1.8 71.0 106.4#
182 0.0 1.6 2.4#



#58
Fluorene
Concen: 7.678 ng
RT: 10.469 min Scan# 1391
Delta R.T. -0.006 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

Tgt Ion:166 Resp: 89468
Ion Ratio Lower Upper
166 100
165 98.1 77.7 116.5
167 12.6 10.7 16.1

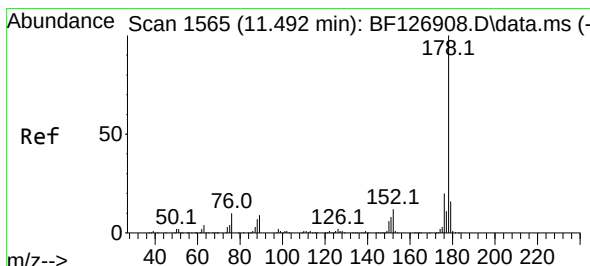
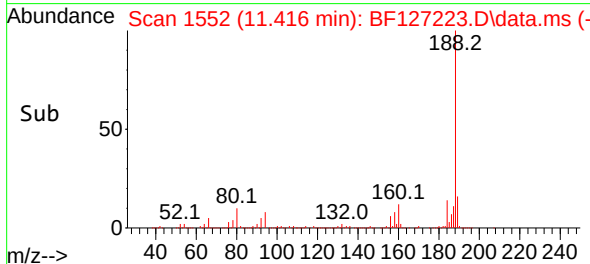
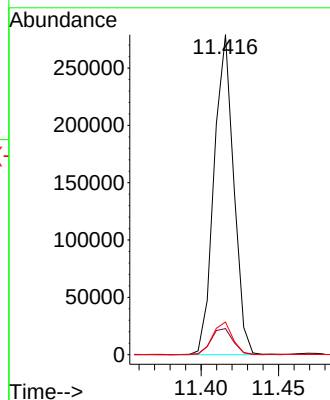
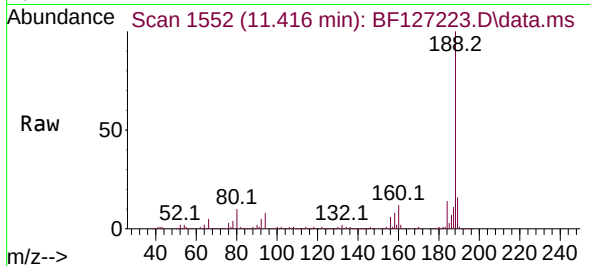




#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

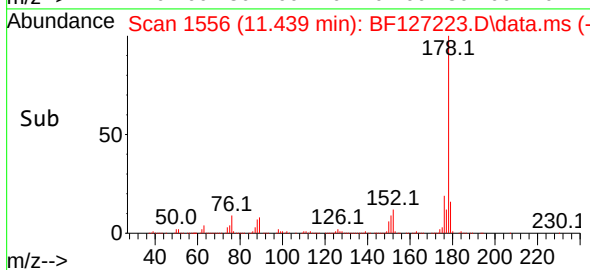
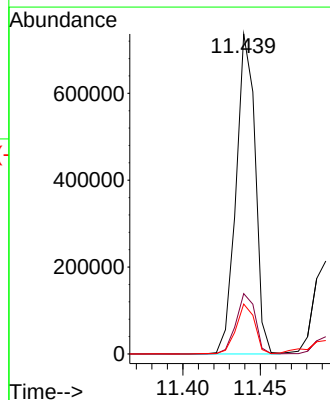
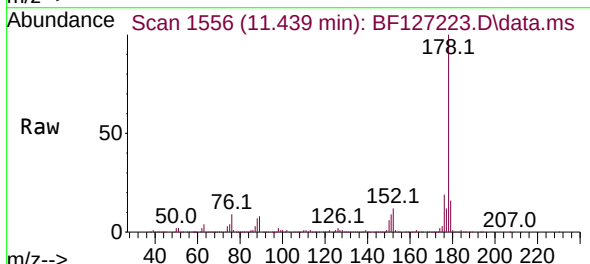
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01ADL

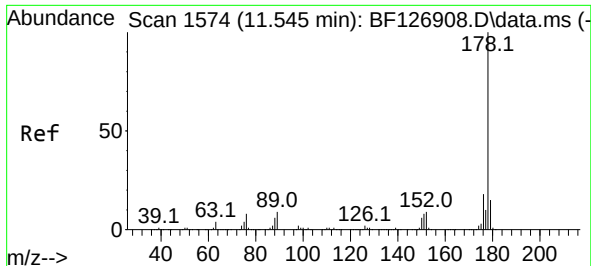
Tgt Ion:188 Resp: 245960
Ion Ratio Lower Upper
188 100
94 8.2 10.1 15.1#
80 10.2 11.8 17.6#



#71
Phenanthrene
Concen: 45.958 ng
RT: 11.439 min Scan# 1556
Delta R.T. -0.000 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

Tgt Ion:178 Resp: 632696
Ion Ratio Lower Upper
178 100
176 18.9 15.7 23.5
179 15.6 12.3 18.5

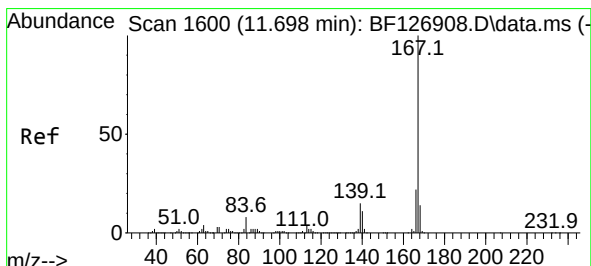
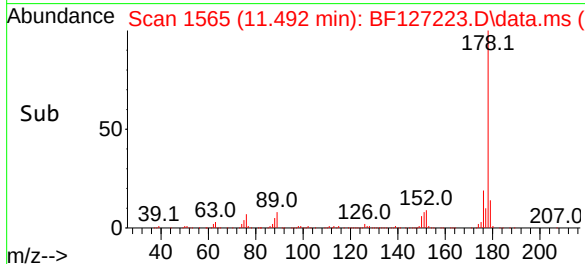
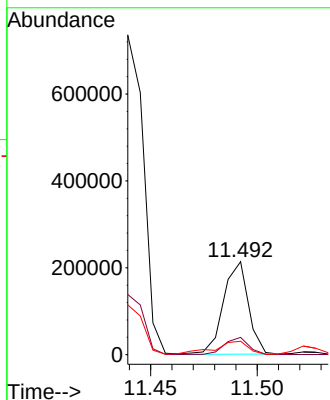
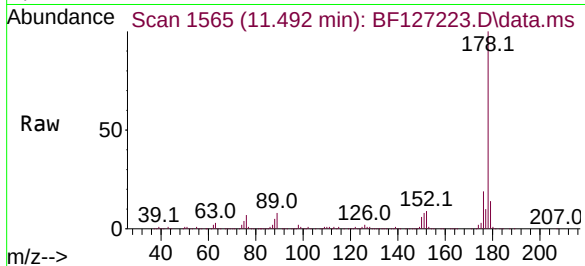




#72
 Anthracene
 Concen: 12.695 ng
 RT: 11.492 min Scan# 1591
 Delta R.T. 0.000 min
 Lab File: BF127223.D
 Acq: 07 Mar 2022 15:31

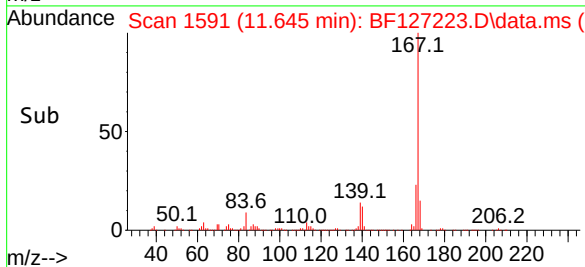
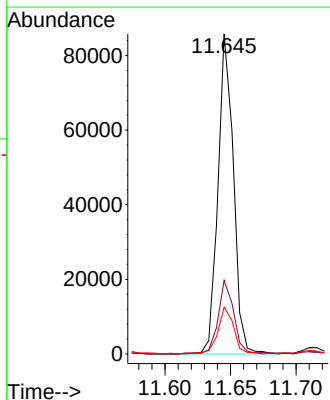
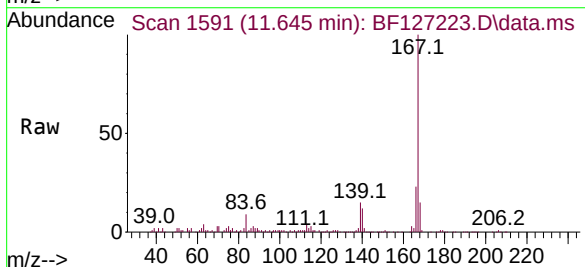
Instrument :
 BNA_F
 ClientSampleId :
 VACLOT-TOPSOIL-GRILLO-01ADL

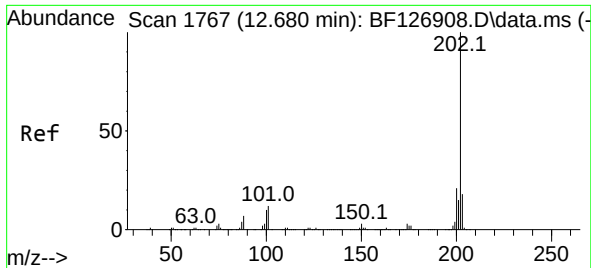
Tgt Ion:178 Resp: 173988
 Ion Ratio Lower Upper
 178 100
 176 18.6 15.0 22.6
 179 14.5 12.5 18.7



#73
 Carbazole
 Concen: 5.576 ng
 RT: 11.645 min Scan# 1591
 Delta R.T. -0.006 min
 Lab File: BF127223.D
 Acq: 07 Mar 2022 15:31

Tgt Ion:167 Resp: 70080
 Ion Ratio Lower Upper
 167 100
 166 23.0 16.9 25.3
 139 14.6 11.3 16.9

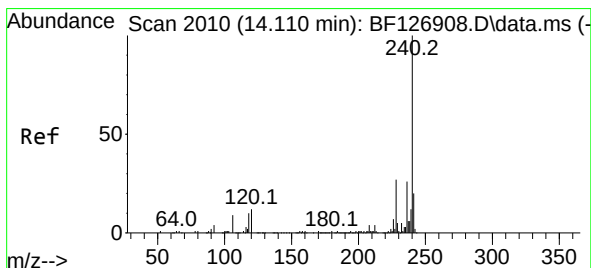
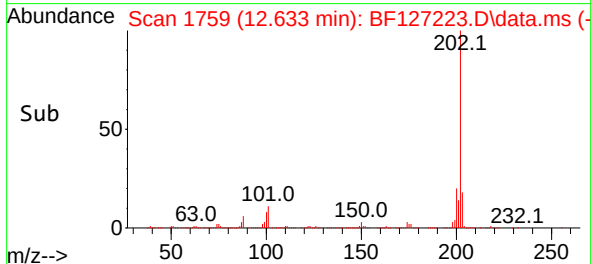
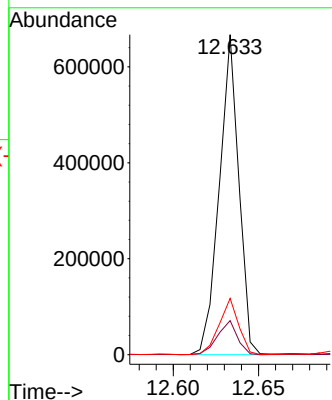
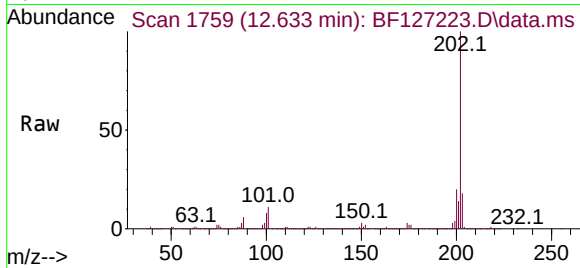




#75
Fluoranthene
Concen: 40.753 ng
RT: 12.633 min Scan# 11
Delta R.T. 0.000 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

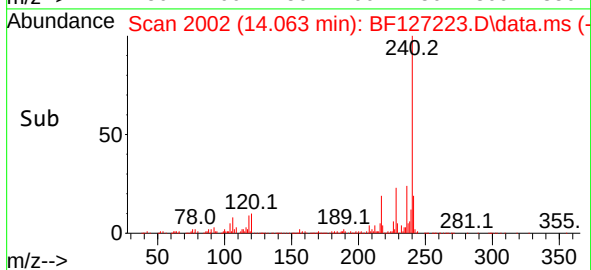
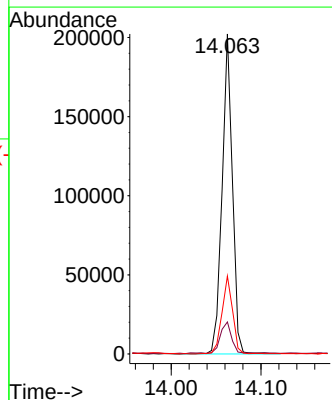
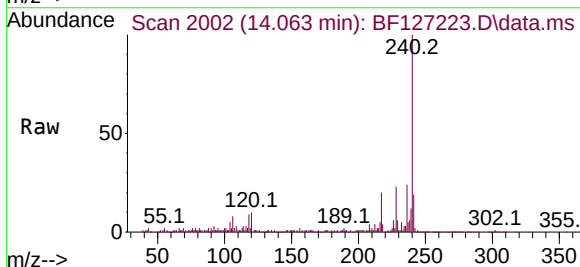
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01ADL

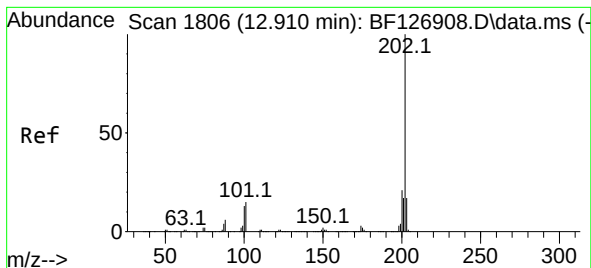
Tgt Ion:202 Resp: 532715
Ion Ratio Lower Upper
202 100
101 10.7 0.0 35.7
203 17.6 0.0 37.1



#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2002
Delta R.T. -0.000 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

Tgt Ion:240 Resp: 161538
Ion Ratio Lower Upper
240 100
120 10.0 14.4 21.6#
236 24.4 20.5 30.7





#78

Pyrene

Concen: 28.923 ng

RT: 12.863 min Scan# 11

Delta R.T. -0.000 min

Lab File: BF127223.D

Acq: 07 Mar 2022 15:31

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01ADL

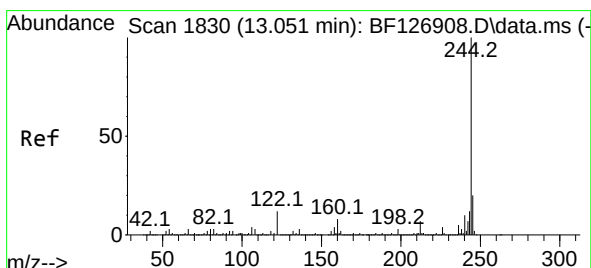
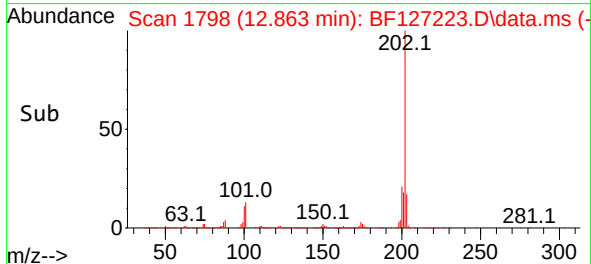
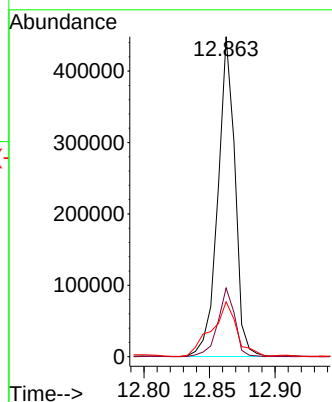
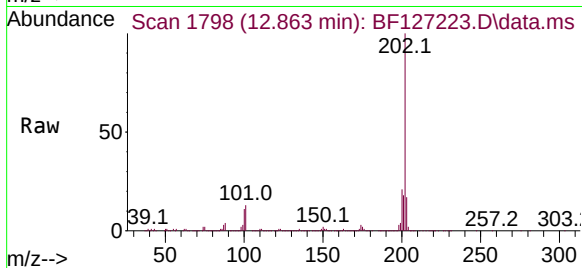
Tgt Ion:202 Resp: 405908

Ion Ratio Lower Upper

202 100

200 21.5 16.6 24.8

203 17.2 13.8 20.8



#79

Terphenyl-d14

Concen: 19.088 ng

RT: 12.998 min Scan# 1821

Delta R.T. 0.000 min

Lab File: BF127223.D

Acq: 07 Mar 2022 15:31

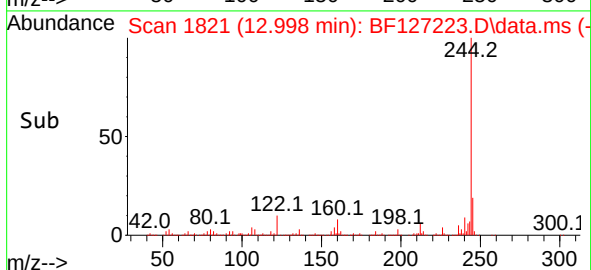
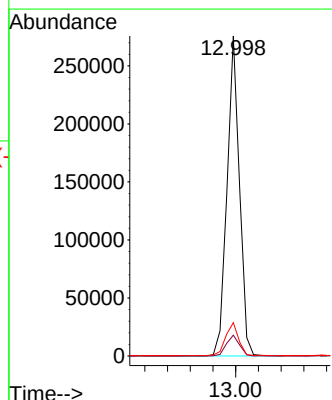
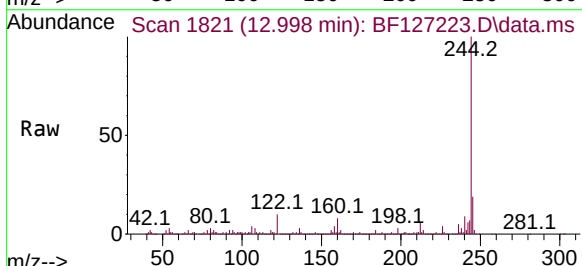
Tgt Ion:244 Resp: 209751

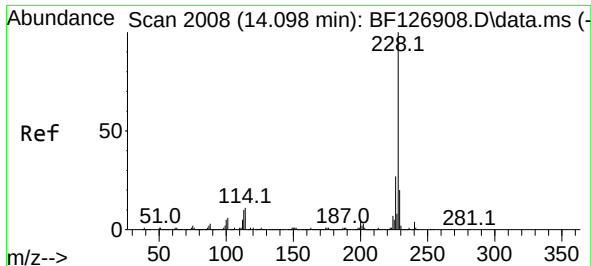
Ion Ratio Lower Upper

244 100

212 6.5 5.0 7.4

122 10.4 13.3 19.9#

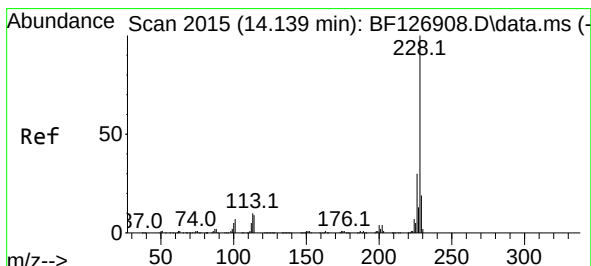
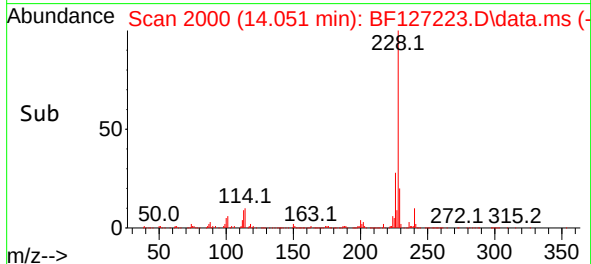
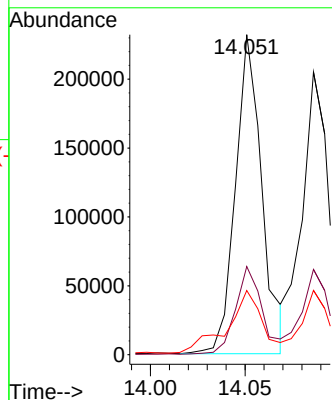
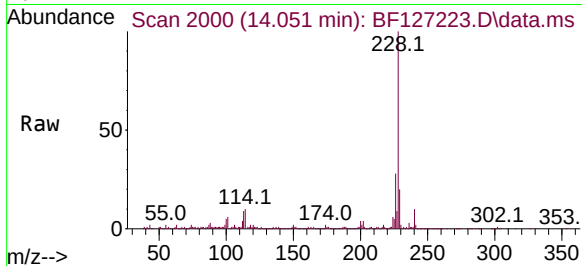




#81
Benzo(a)anthracene
Concen: 20.688 ng
RT: 14.051 min Scan# 2000
Delta R.T. -0.000 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

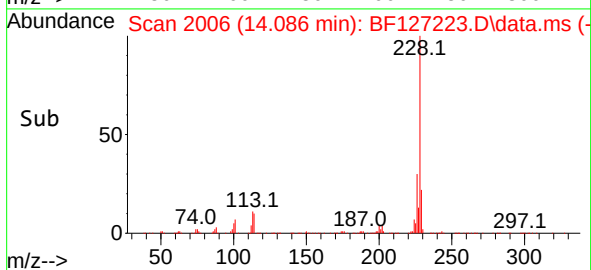
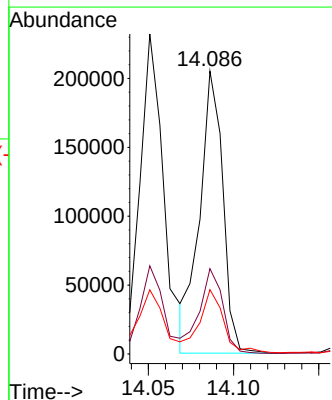
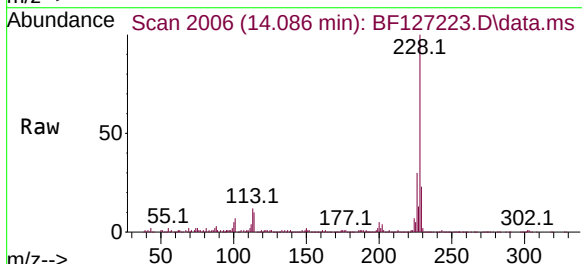
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01ADL

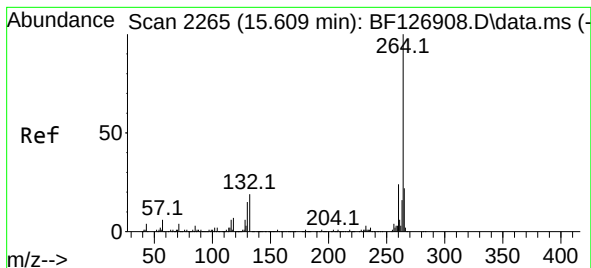
Tgt Ion:228 Resp: 225299
Ion Ratio Lower Upper
228 100
226 27.6 21.4 32.0
229 20.1 15.4 23.2



#83
Chrysene
Concen: 18.911 ng
RT: 14.086 min Scan# 2006
Delta R.T. -0.000 min
Lab File: BF127223.D
Acq: 07 Mar 2022 15:31

Tgt Ion:228 Resp: 193666
Ion Ratio Lower Upper
228 100
226 30.2 23.7 35.5
229 22.8 15.5 23.3





#86

Perylene-d12

Concen: 20.000 ng

RT: 15.557 min Scan# 21

Delta R.T. 0.012 min

Lab File: BF127223.D

Acq: 07 Mar 2022 15:31

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01ADL

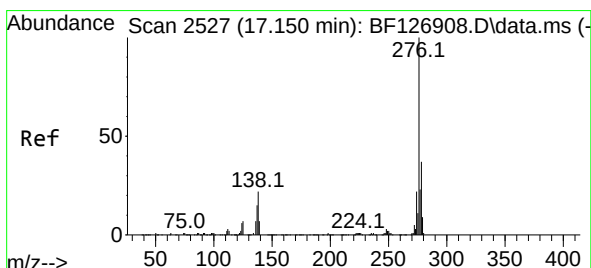
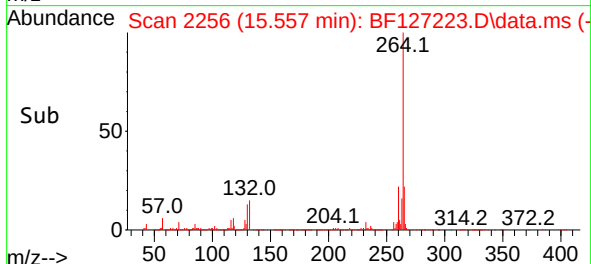
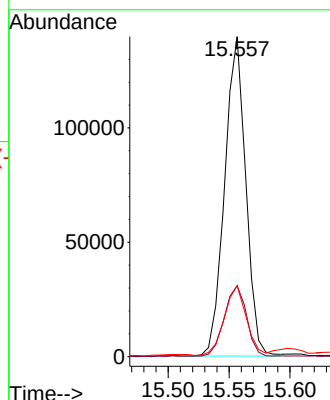
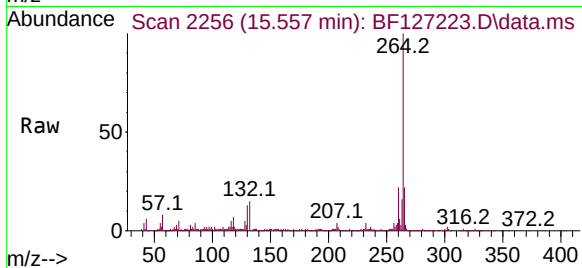
Tgt Ion:264 Resp: 168156

Ion Ratio Lower Upper

264 100

260 22.2 19.2 28.8

265 22.1 17.4 26.2



#87

Indeno(1,2,3-cd)pyrene

Concen: 8.720 ng

RT: 17.062 min Scan# 2512

Delta R.T. 0.006 min

Lab File: BF127223.D

Acq: 07 Mar 2022 15:31

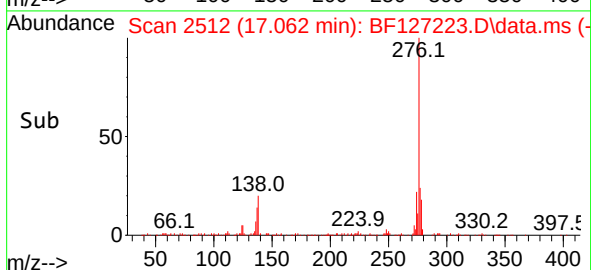
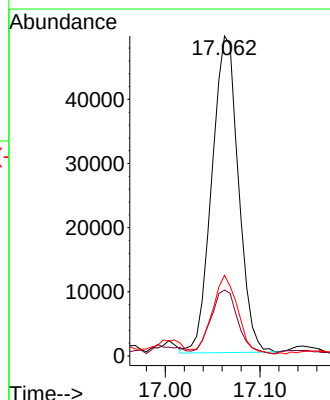
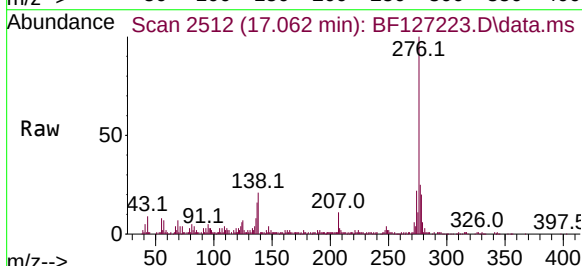
Tgt Ion:276 Resp: 96148

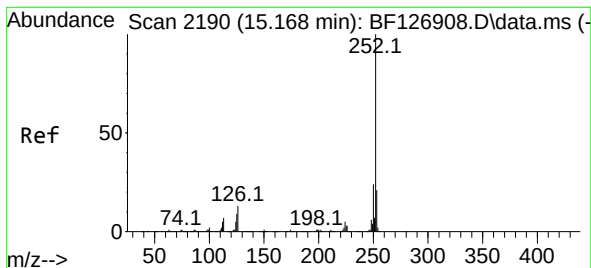
Ion Ratio Lower Upper

276 100

138 20.3 29.2 43.8#

277 23.9 19.8 29.8





#88

Benzo(b)fluoranthene

Concen: 3.693 ng

RT: 15.227 min Scan# 21

Delta R.T. 0.118 min

Lab File: BF127223.D

Acq: 07 Mar 2022 15:31

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01ADL

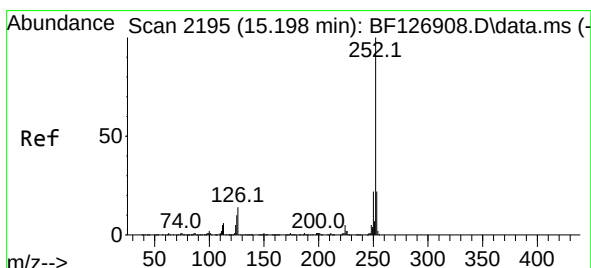
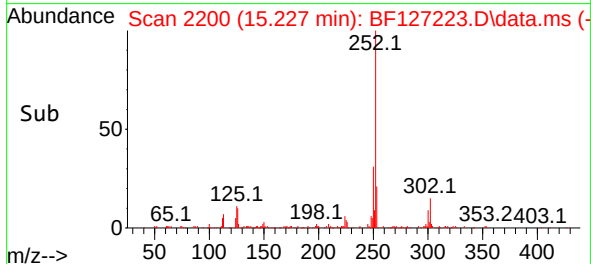
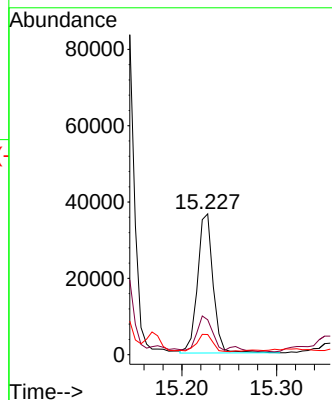
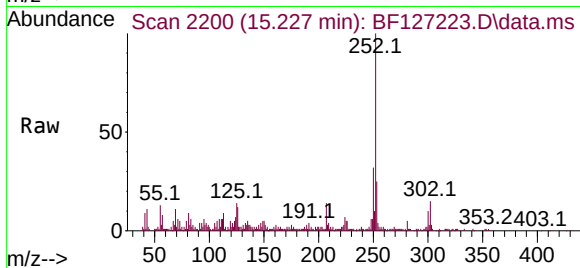
Tgt Ion:252 Resp: 41711

Ion Ratio Lower Upper

252 100

253 24.8 17.8 26.8

125 14.4 12.4 18.6



#89

Benzo(k)fluoranthene

Concen: 3.829 ng

RT: 15.227 min Scan# 2200

Delta R.T. 0.088 min

Lab File: BF127223.D

Acq: 07 Mar 2022 15:31

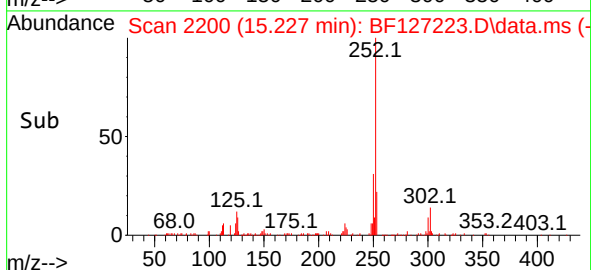
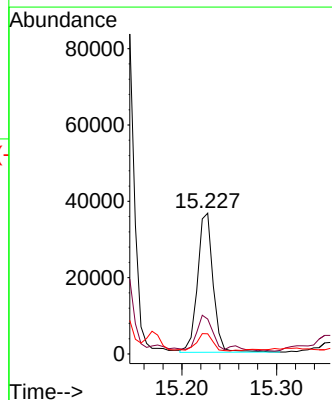
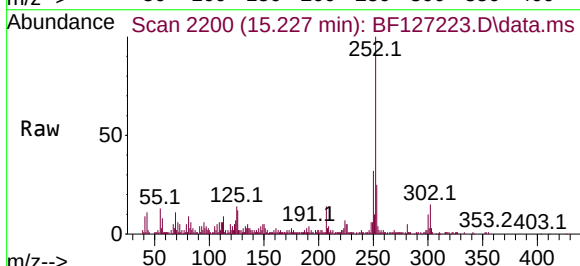
Tgt Ion:252 Resp: 41711

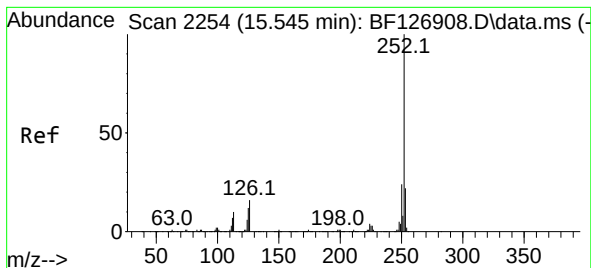
Ion Ratio Lower Upper

252 100

253 24.8 17.5 26.3

125 14.4 11.8 17.6





#90

Benzo(a)pyrene

Concen: 13.548 ng

RT: 15.427 min Scan# 21

Delta R.T. -0.059 min

Lab File: BF127223.D

Acq: 07 Mar 2022 15:31

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01ADL

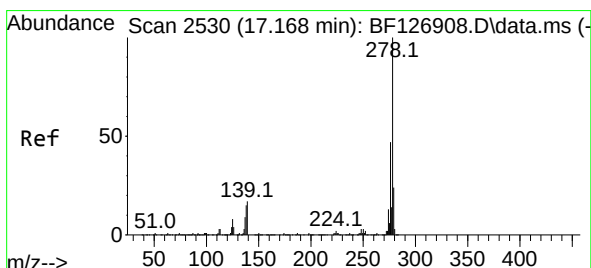
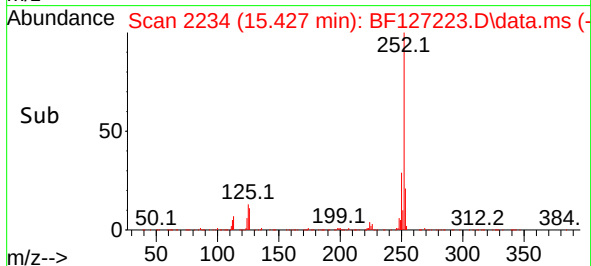
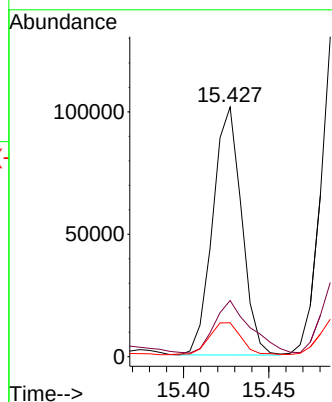
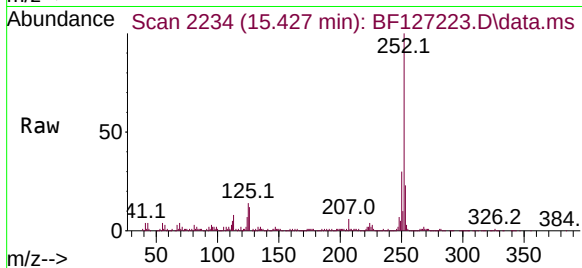
Tgt Ion:252 Resp: 119515

Ion Ratio Lower Upper

252 100

253 22.5 17.1 25.7

125 13.6 13.0 19.6



#91

Dibenzo(a,h)anthracene

Concen: 2.743 ng

RT: 17.068 min Scan# 2513

Delta R.T. -0.006 min

Lab File: BF127223.D

Acq: 07 Mar 2022 15:31

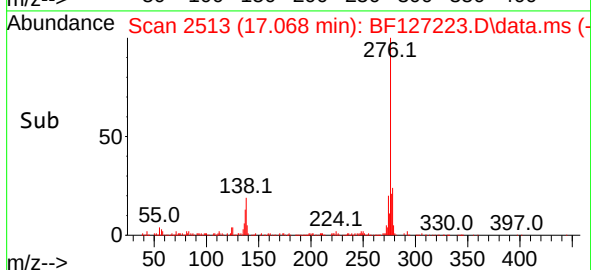
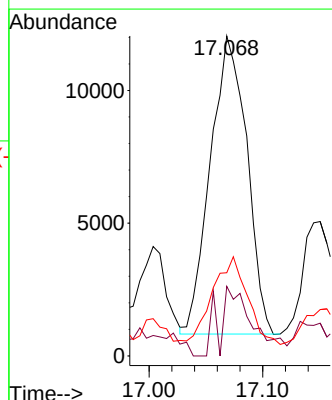
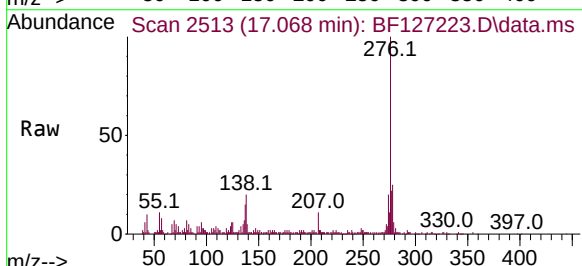
Tgt Ion:278 Resp: 25012

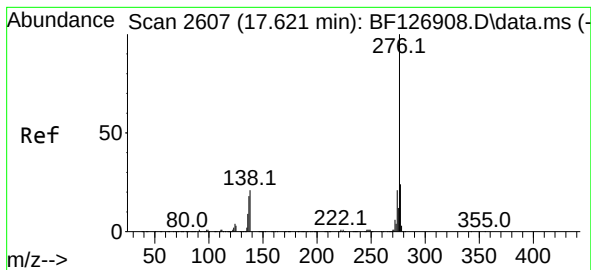
Ion Ratio Lower Upper

278 100

139 21.8 18.0 27.0

279 26.0 18.6 27.8





#92

Benzo(g,h,i)perylene

Concen: 9.641 ng

RT: 17.521 min Scan# 21

Delta R.T. -0.000 min

Lab File: BF127223.D

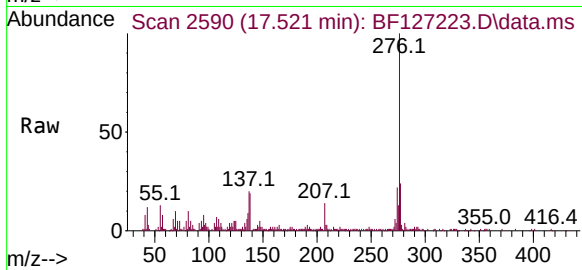
Acq: 07 Mar 2022 15:31

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01ADL



Tgt Ion:276 Resp: 86673

Ion Ratio Lower Upper

276 100

277 24.1 18.5 27.7

138 19.0 25.9 38.9#

