

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030722\
 Data File : BF127222.D
 Acq On : 07 Mar 2022 14:33
 Operator : CG\JU
 Sample : N1731-02
 Misc :
 ALS Vial : 9 Sample Multiplier: 1

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

Manual Integrations
 APPROVED

Reviewed By : Christian Giraldo 03/08/2022
 Supervised By : Jagrut Upadhyay 03/08/2022

Quant Time: Mar 07 15:00:15 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	87291	20.000	ng	0.00
21) Naphthalene-d8	8.163	136	313748	20.000	ng	# 0.00
39) Acenaphthene-d10	9.922	164	134994	20.000	ng	0.00
64) Phenanthrene-d10	11.416	188	200496	20.000	ng	# 0.00
76) Chrysene-d12	14.063	240	134447	20.000	ng	# 0.00
86) Perylene-d12	15.557	264	124580	20.000	ng	0.01
System Monitoring Compounds						
5) 2-Fluorophenol	5.498	112	529388	93.733	ng	0.00
7) Phenol-d6	6.510	99	672039	88.184	ng	0.00
23) Nitrobenzene-d5	7.445	82	455098	65.473	ng	0.00
42) 2,4,6-Tribromophenol	10.716	330	133077	85.620	ng	0.00
45) 2-Fluorobiphenyl	9.239	172	566517	61.781	ng	0.00
79) Terphenyl-d14	12.998	244	396790	43.385	ng	0.00
Target Compounds						Qvalue
10) Phenol	6.522	94	18347	2.383	ng	# 69
31) Naphthalene	8.181	128	220962	13.491	ng	99
37) 2-Methylnaphthalene	8.875	142	48032	4.520	ng	97
38) 1-Methylnaphthalene	8.975	142	22173	2.179	ng	98
52) Acenaphthene	9.951	154	94700	11.303	ng	95
55) Dibenzofuran	10.128	168	118182	10.258	ng	94
58) Fluorene	10.469	166	153217	17.073	ng	99
71) Phenanthrene	11.445	178	1062266	94.658	ng	99
72) Anthracene	11.492	178	291978	26.135	ng	99
73) Carbazole	11.645	167	112685	10.999	ng	99
75) Fluoranthene	12.633	202	889005	83.432	ng	95
78) Pyrene	12.868	202	764887	65.484	ng	99
81) Benzo(a)anthracene	14.051	228	426423	47.046	ng	98
83) Chrysene	14.092	228	363464	42.643	ng	98
87) Indeno(1,2,3-cd)pyrene	17.062	276	140835	17.240	ng	# 81
88) Benzo(b)fluoranthene	15.115	252	406118m	48.537	ng	
89) Benzo(k)fluoranthene	15.139	252	135219m	16.755	ng	
90) Benzo(a)pyrene	15.492	252	294732m	45.096	ng	
91) Dibenzo(a,h)anthracene	17.074	278	38439	5.690	ng	# 91
92) Benzo(g,h,i)perylene	17.527	276	127192	19.096	ng	# 84

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

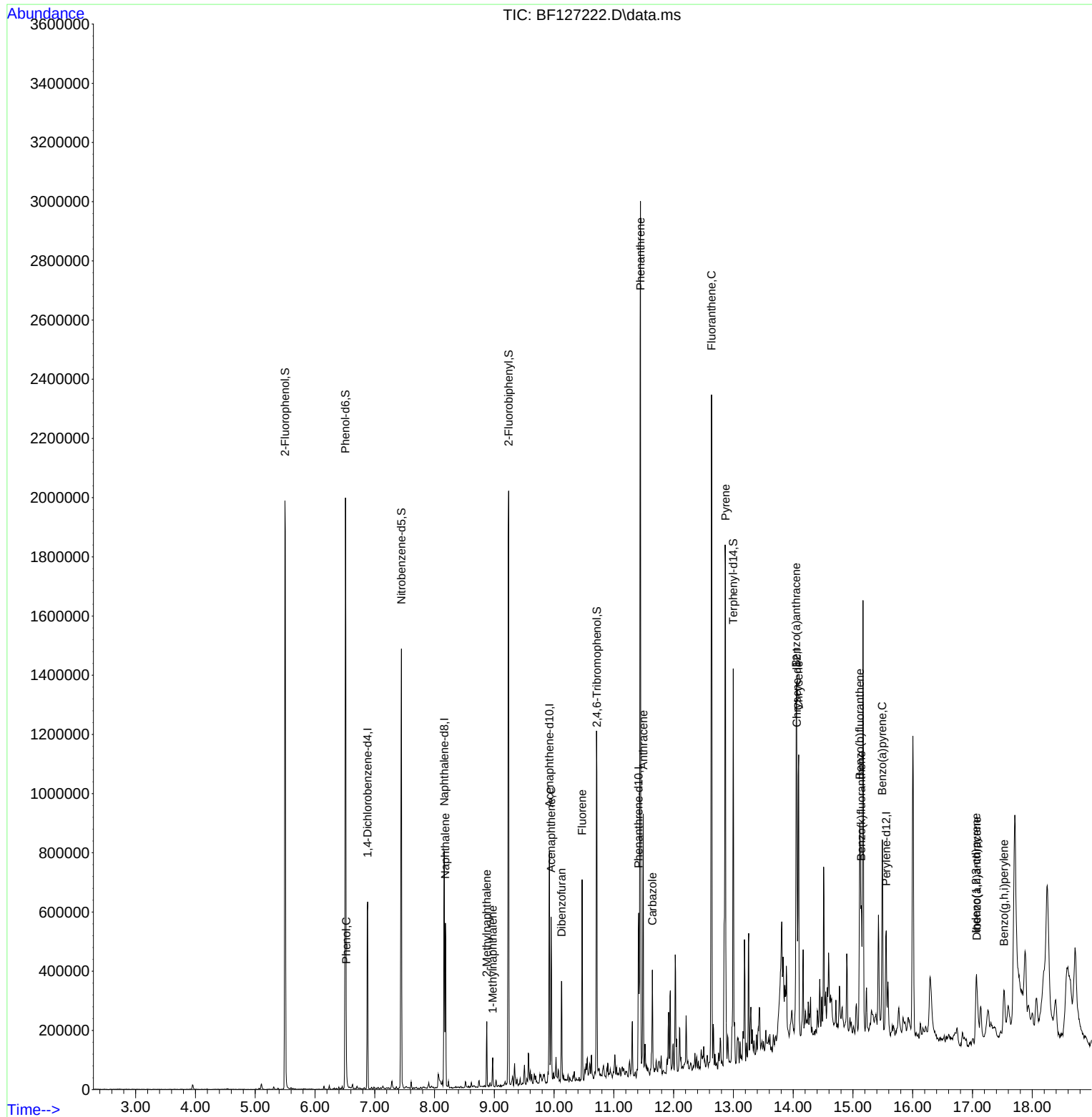
Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF030722\
Data File : BF127222.D
Acq On : 07 Mar 2022 14:33
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Sample : N1731-02
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ALS Vial : 9 Sample Multiplier: 1

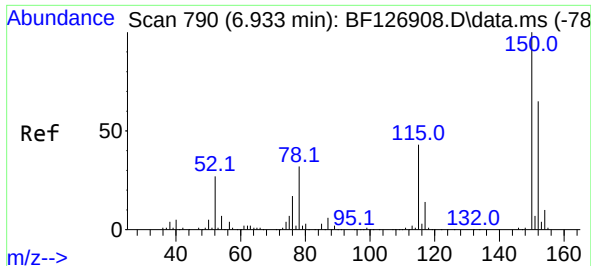
Instrument :
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ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01A

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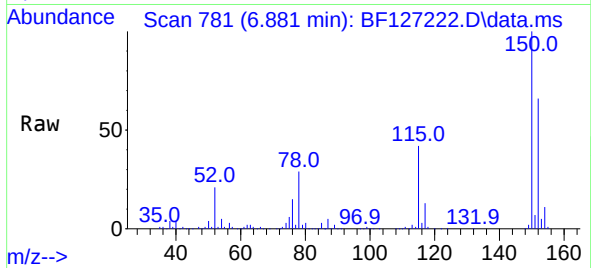
Quant Time: Mar 07 15:00:15 2022
Quant Method : Z:\svoasrv\HPCHEM1\BNA_F\Methods\8270-BF021622.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Sat Mar 05 02:16:58 2022
Response via : Initial Calibration





#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.881 min Scan# 71
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

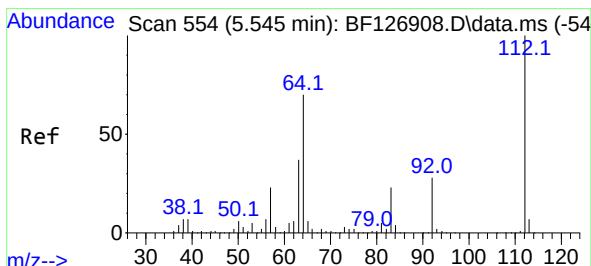
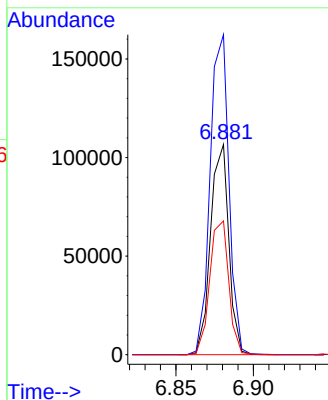
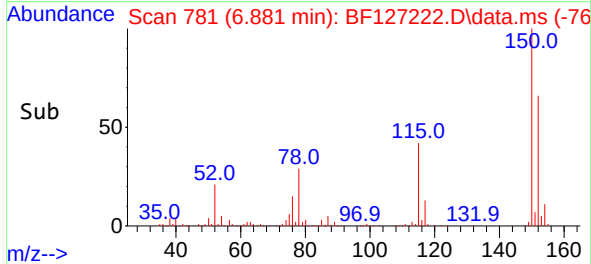
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01A



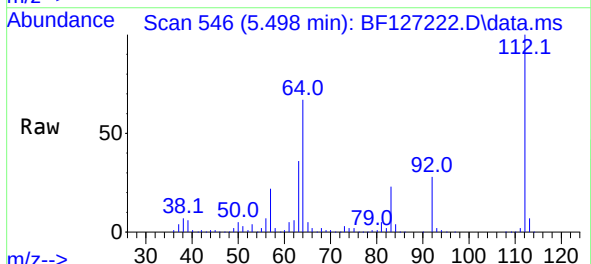
Tgt Ion:152 Resp: 8729
Ion Ratio Lower Upper
152 100
150 152.2 128.1 192.1
115 63.6 56.7 85.1

Manual Integrations
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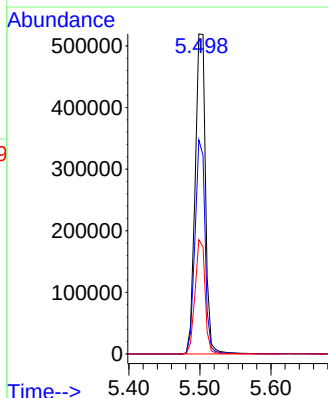
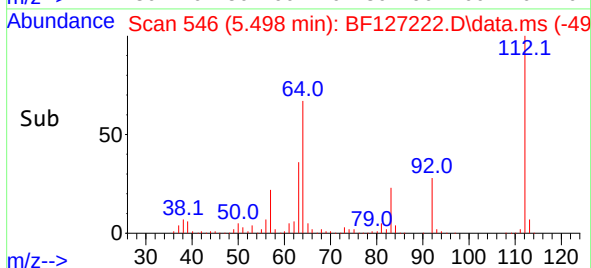
Reviewed By :Christian Giraldo 03/08/2022
Supervised By :Jagrut Upadhyay 03/08/2022

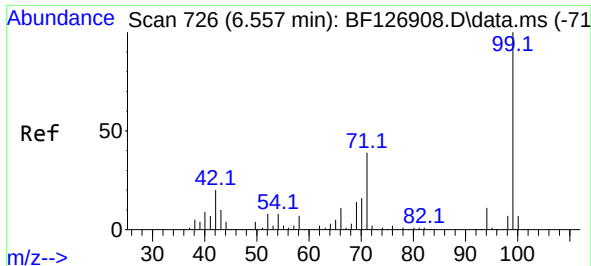


#5
2-Fluorophenol
Concen: 93.733 ng
RT: 5.498 min Scan# 546
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33



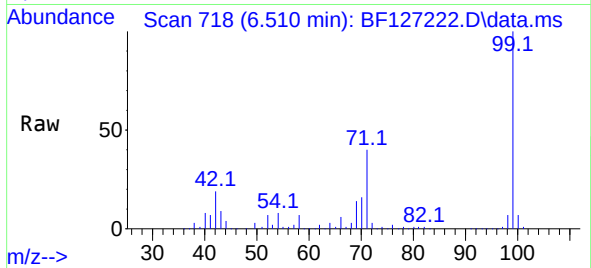
Tgt Ion:112 Resp: 529388
Ion Ratio Lower Upper
112 100
64 66.9 49.5 74.3
63 35.7 23.9 35.9





#7
Phenol-d6
Concen: 88.184 ng
RT: 6.510 min Scan# 71
Delta R.T. -0.006 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

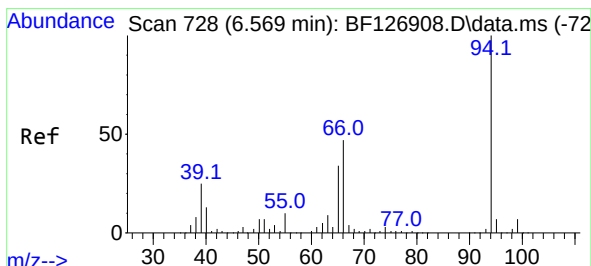
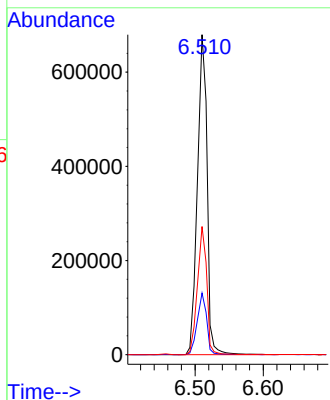
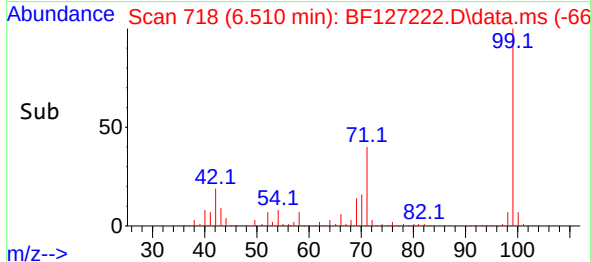
Instrument :
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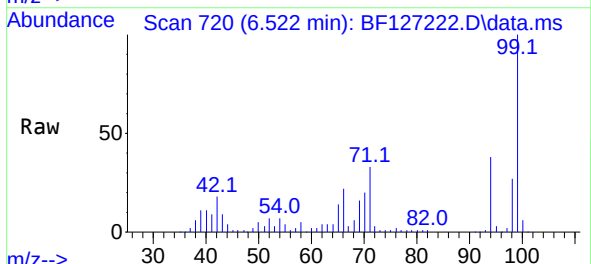
Tgt Ion: 99 Resp: 672039
Ion Ratio Lower Upper
99 100
42 19.3 14.2 21.4
71 40.1 24.3 36.5

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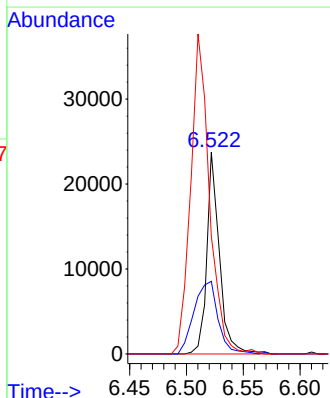
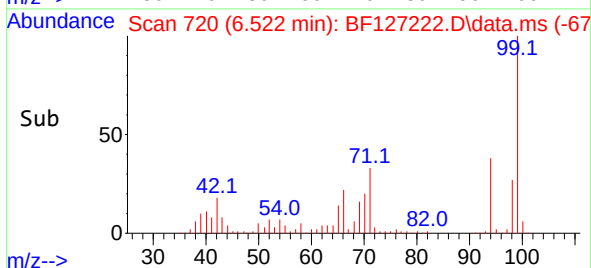
Reviewed By :Christian Giraldo 03/08/2022
Supervised By :Jagrut Upadhyay 03/08/2022

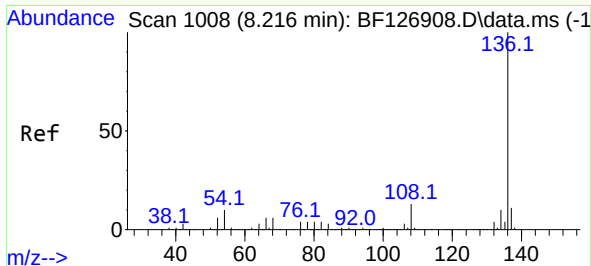


#10
Phenol
Concen: 2.383 ng
RT: 6.522 min Scan# 720
Delta R.T. -0.006 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33



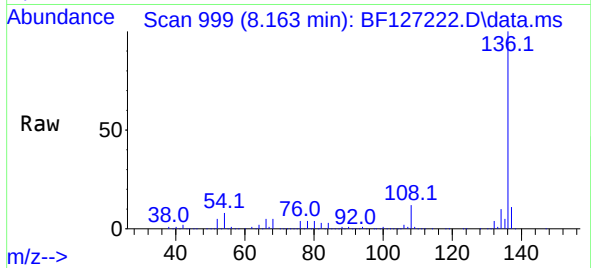
Tgt Ion: 94 Resp: 18347
Ion Ratio Lower Upper
94 100
65 36.0 7.2 47.2
66 58.3 14.5 54.5





#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.163 min Scan# 91
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

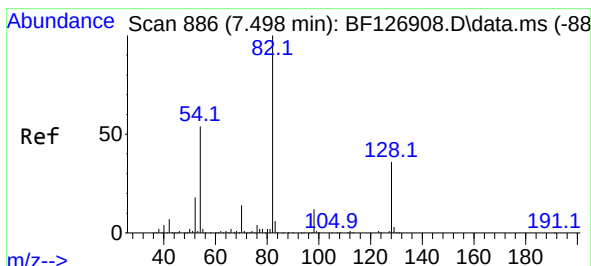
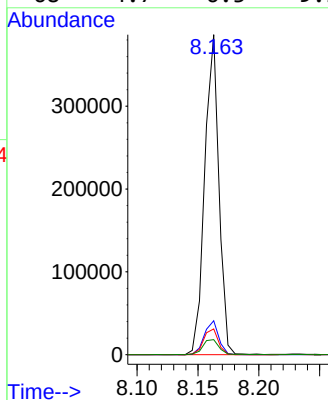
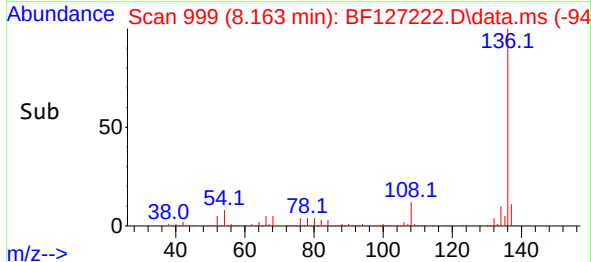
Instrument :
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Tgt Ion:136 Resp: 313748
Ion Ratio Lower Upper
136 100
137 10.6 8.6 13.0
54 8.0 7.8 11.6
68 4.7 6.3 9.5#

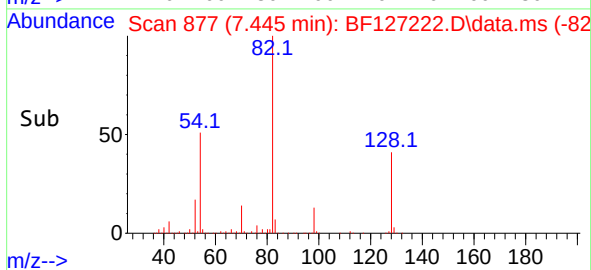
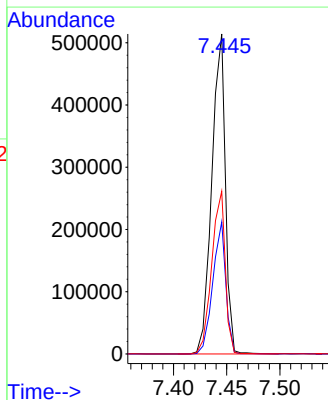
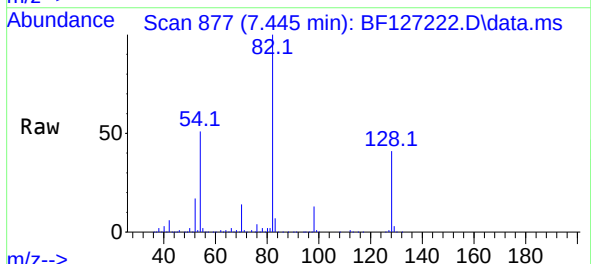
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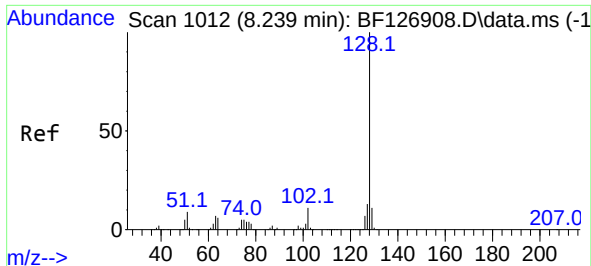
Reviewed By :Christian Giraldo 03/08/2022
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#23
Nitrobenzene-d5
Concen: 65.473 ng
RT: 7.445 min Scan# 877
Delta R.T. -0.006 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

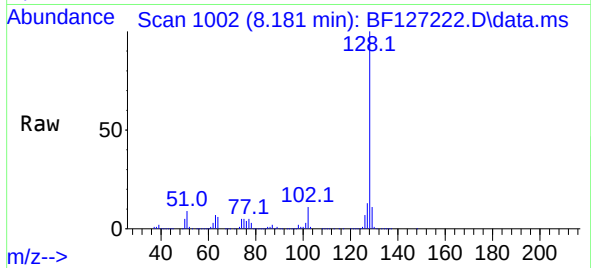
Tgt Ion: 82 Resp: 455098
Ion Ratio Lower Upper
82 100
128 41.2 32.7 49.1
54 50.9 41.7 62.5





#31
Naphthalene
Concen: 13.491 ng
RT: 8.181 min Scan# 1012
Delta R.T. -0.006 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

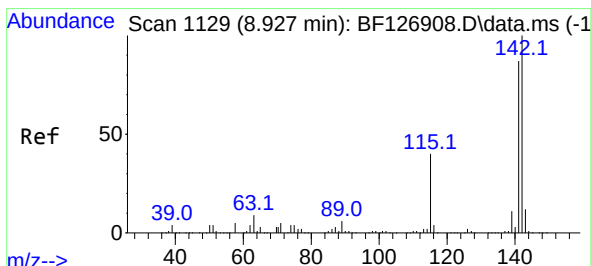
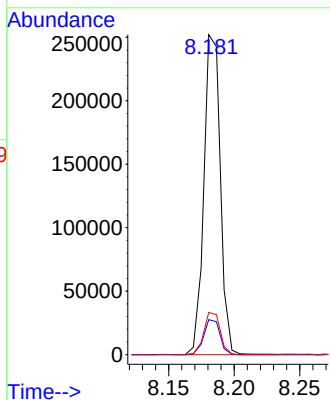
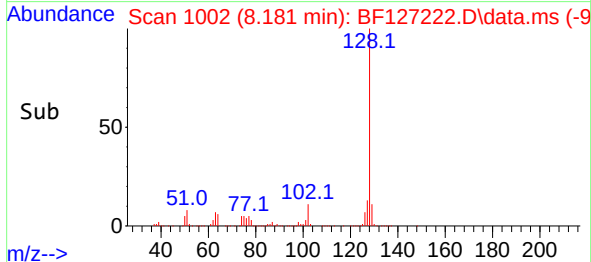
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Tgt Ion:128 Resp: 220962
Ion Ratio Lower Upper
128 100
129 11.0 8.6 13.0
127 13.2 10.3 15.5

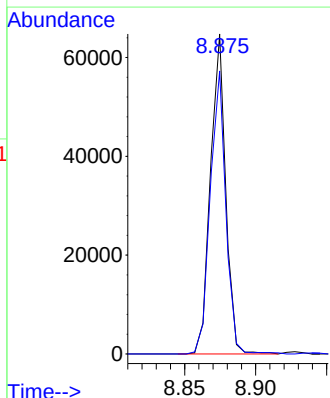
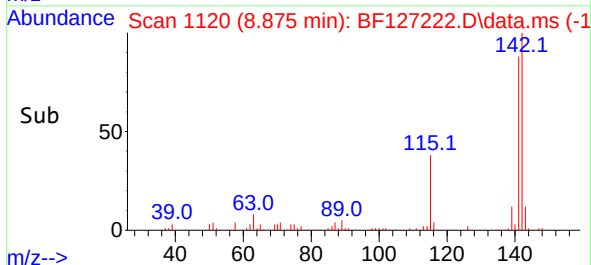
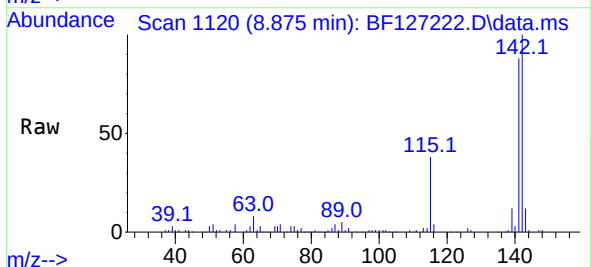
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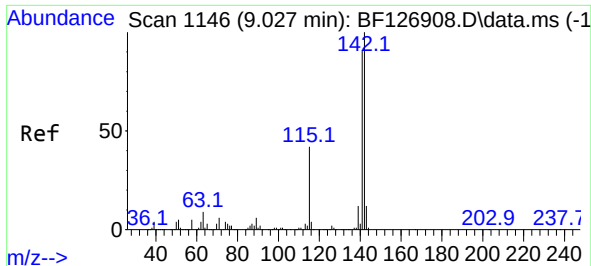
Reviewed By :Christian Giraldo 03/08/2022
Supervised By :Jagrut Upadhyay 03/08/2022



#37
2-Methylnaphthalene
Concen: 4.520 ng
RT: 8.875 min Scan# 1120
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

Tgt Ion:142 Resp: 48032
Ion Ratio Lower Upper
142 100
141 88.5 68.6 102.8





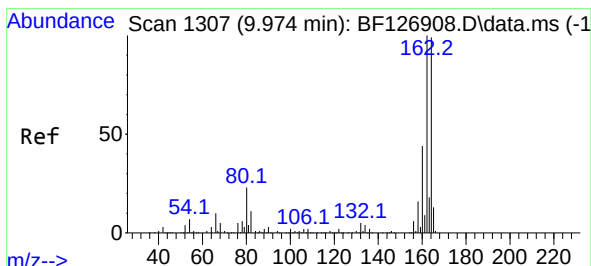
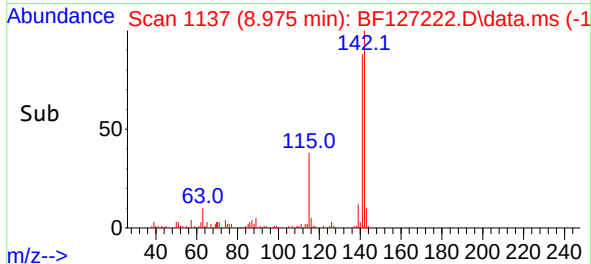
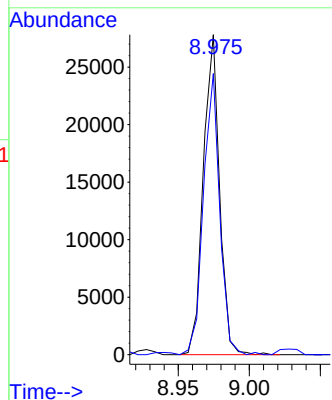
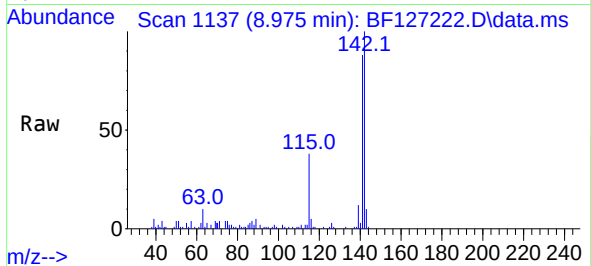
#38
1-Methylnaphthalene
Concen: 2.179 ng
RT: 8.975 min Scan# 1146
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

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

Tgt Ion:142 Resp: 2217
Ion Ratio Lower Upper
142 100
141 87.8 72.1 108.1

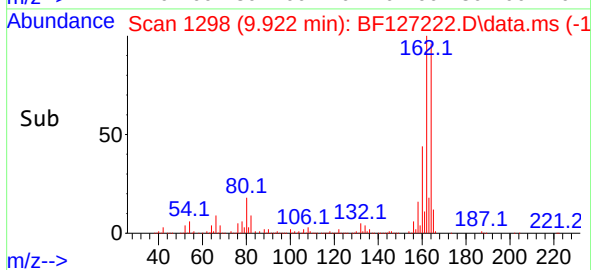
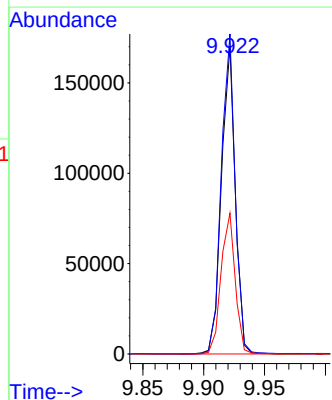
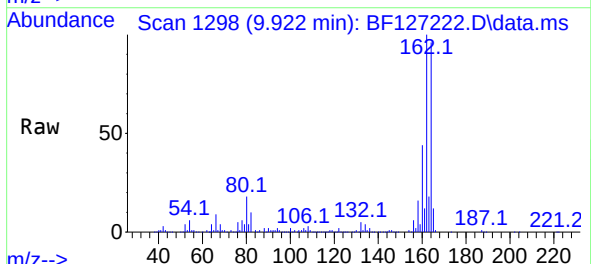
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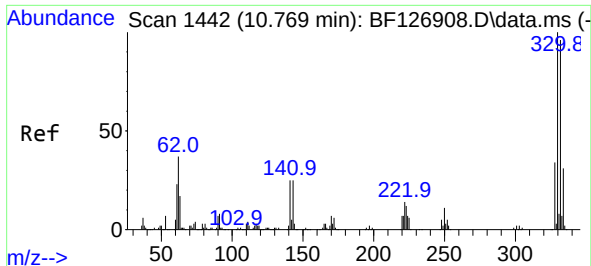
Reviewed By :Christian Giraldo 03/08/2022
Supervised By :Jagrut Upadhyay 03/08/2022



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.922 min Scan# 1298
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

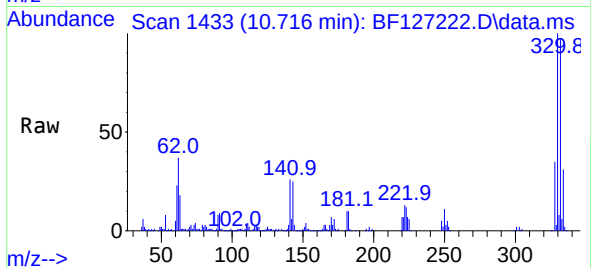
Tgt Ion:164 Resp: 134994
Ion Ratio Lower Upper
164 100
162 103.9 81.4 122.0
160 45.7 36.6 54.8





#42
2,4,6-Tribromophenol
Concen: 85.620 ng
RT: 10.716 min Scan# 1442
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

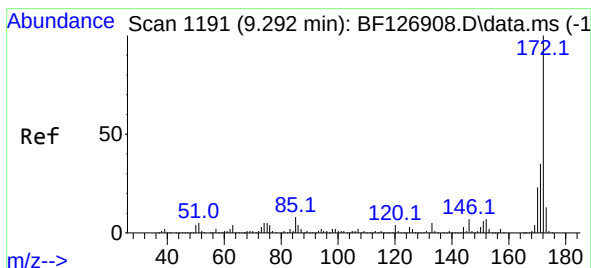
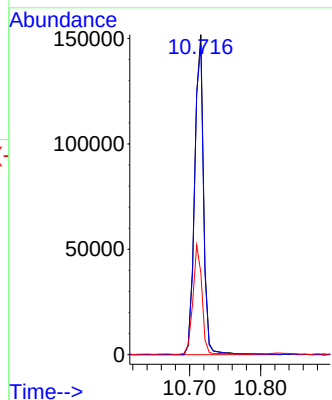
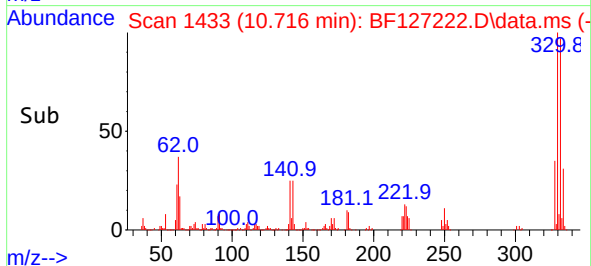
Instrument :
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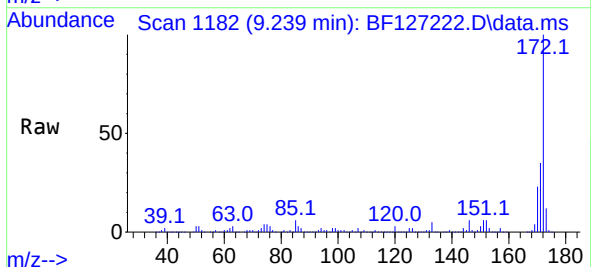
Tgt Ion:330 Resp: 133072
Ion Ratio Lower Upper
330 100
332 96.6 76.0 114.0
141 33.8 30.1 45.1

Manual Integrations
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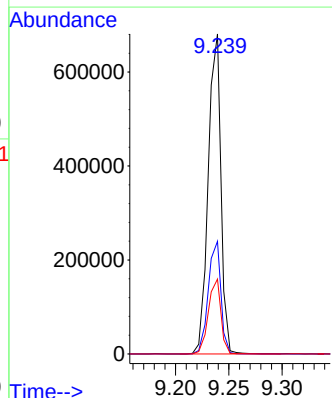
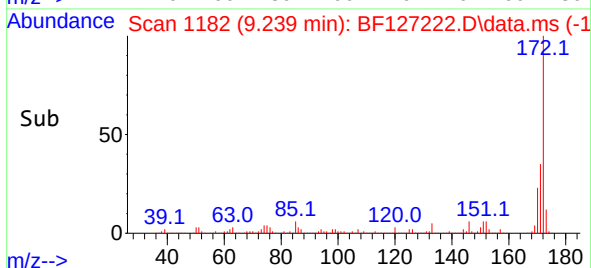
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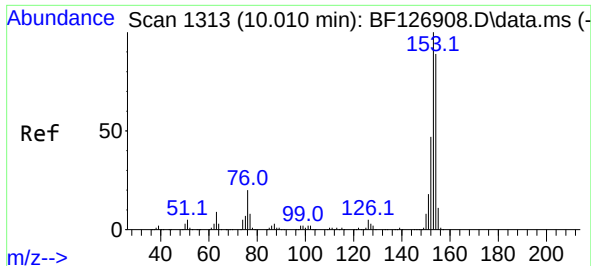


#45
2-Fluorobiphenyl
Concen: 61.781 ng
RT: 9.239 min Scan# 1182
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33



Tgt Ion:172 Resp: 566517
Ion Ratio Lower Upper
172 100
171 35.2 28.3 42.5
170 23.4 19.0 28.6





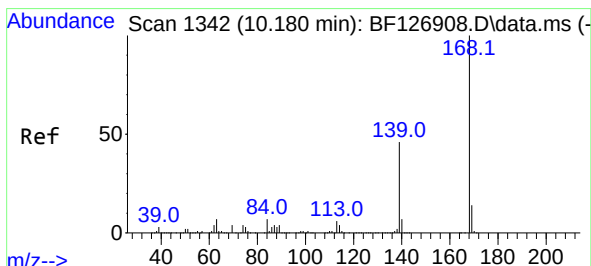
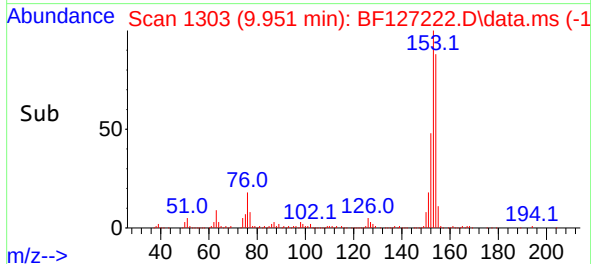
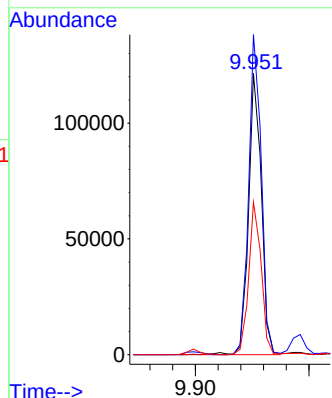
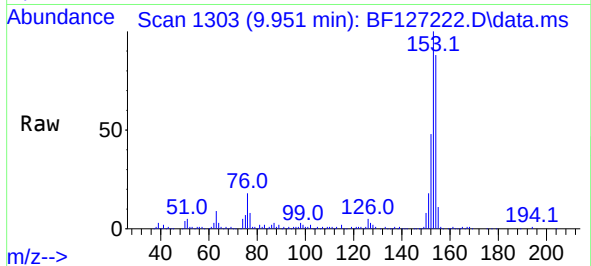
#52
Acenaphthene
Concen: 11.303 ng
RT: 9.951 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

Instrument :
BNA_F
ClientSampleId :
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Tgt Ion:154 Resp: 94700
Ion Ratio Lower Upper
154 100
153 113.8 87.8 131.6
152 54.2 39.4 59.2

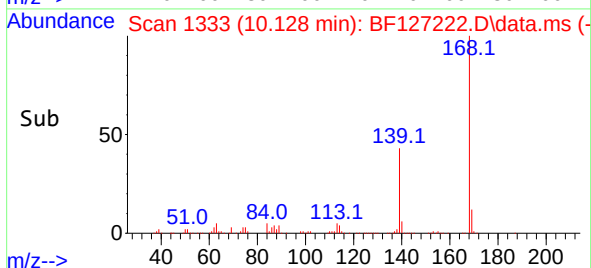
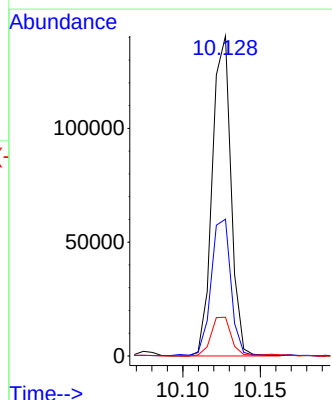
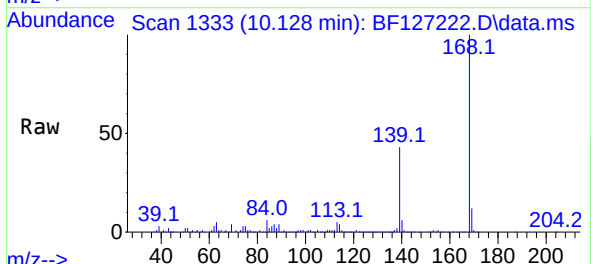
Manual Integrations
APPROVED

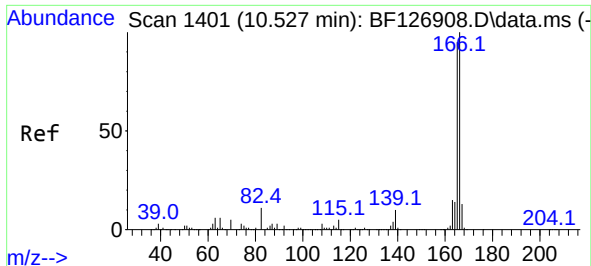
Reviewed By :Christian Giraldo 03/08/2022
Supervised By :Jagrut Upadhyay 03/08/2022



#55
Dibenzofuran
Concen: 10.258 ng
RT: 10.128 min Scan# 1333
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

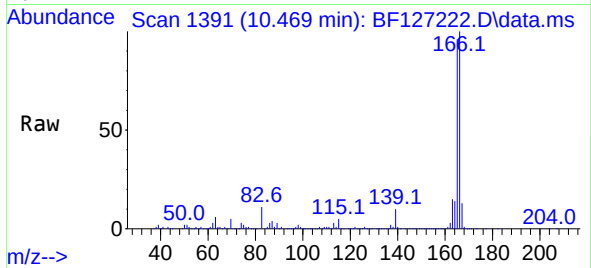
Tgt Ion:168 Resp: 118182
Ion Ratio Lower Upper
168 100
139 42.7 30.6 46.0
169 12.1 10.0 15.0





#58
Fluorene
Concen: 17.073 ng
RT: 10.469 min Scan# 11
Delta R.T. -0.006 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

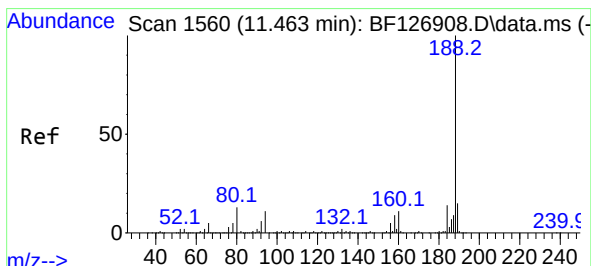
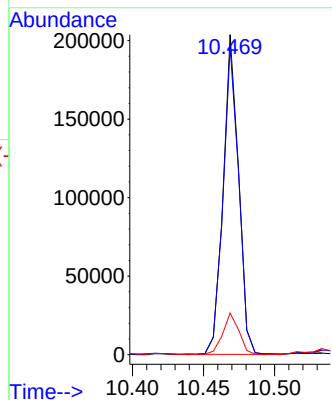
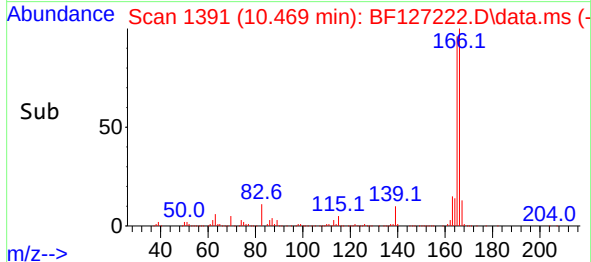
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01A



Tgt Ion:166 Resp: 15321
Ion Ratio Lower Upper
166 100
165 96.4 77.7 116.5
167 13.0 10.7 16.1

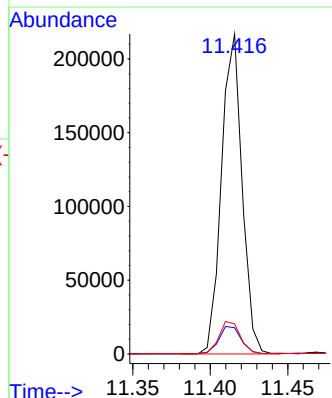
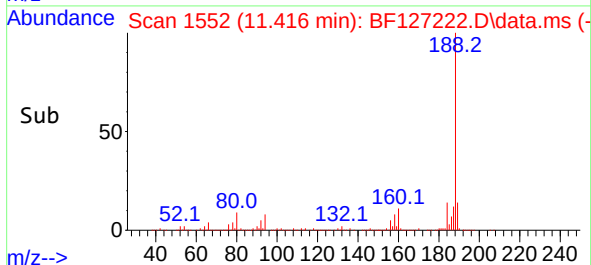
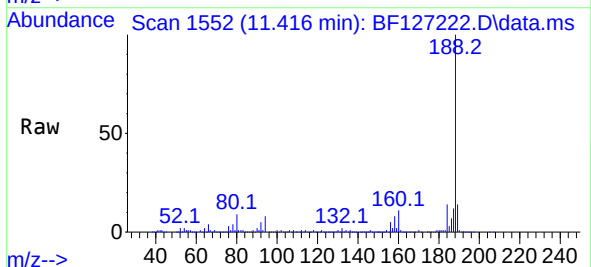
Manual Integrations
APPROVED

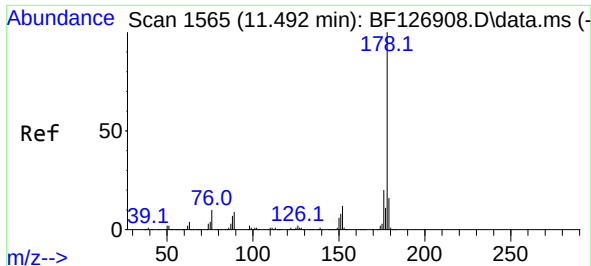
Reviewed By :Christian Giraldo 03/08/2022
Supervised By :Jagrut Upadhyay 03/08/2022



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.416 min Scan# 1552
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

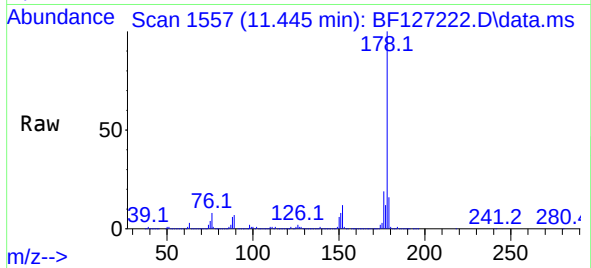
Tgt Ion:188 Resp: 200496
Ion Ratio Lower Upper
188 100
94 8.2 10.1 15.1#
80 9.4 11.8 17.6#





#71
Phenanthrene
Concen: 94.658 ng
RT: 11.445 min Scan# 11
Delta R.T. 0.006 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

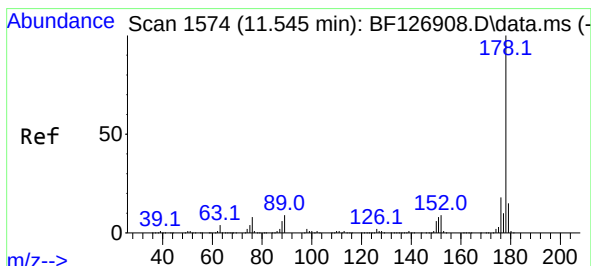
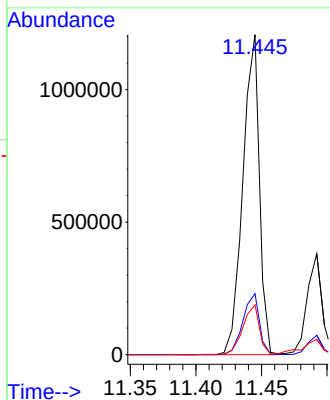
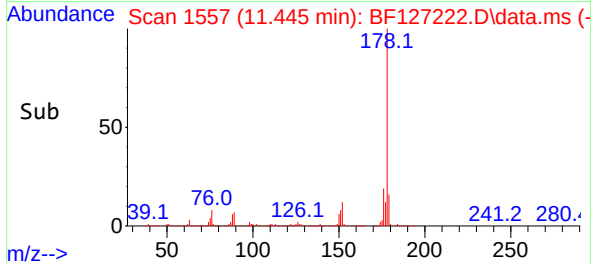
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01A



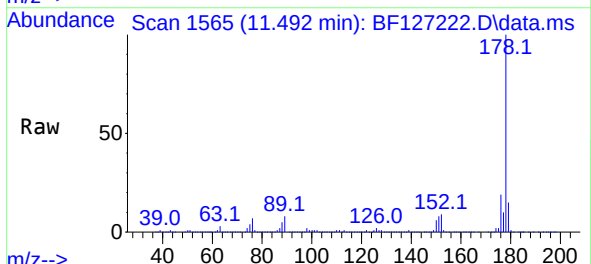
Tgt Ion:178 Resp: 1062260
Ion Ratio Lower Upper
178 100
176 19.1 15.7 23.5
179 15.6 12.3 18.5

Manual Integrations
APPROVED

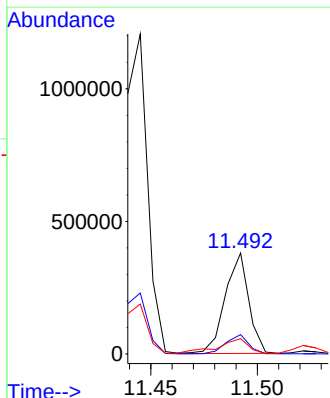
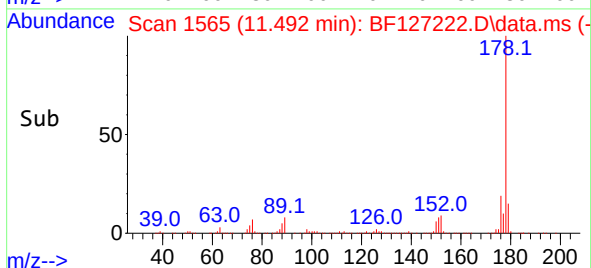
Reviewed By :Christian Giraldo 03/08/2022
Supervised By :Jagrut Upadhyay 03/08/2022

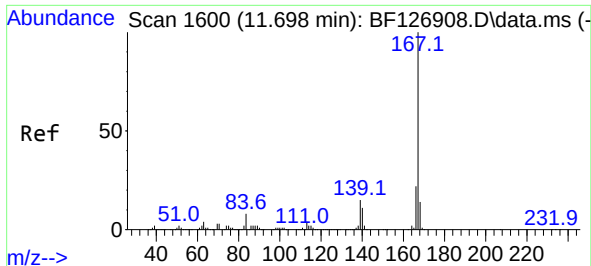


#72
Anthracene
Concen: 26.135 ng
RT: 11.492 min Scan# 1565
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33



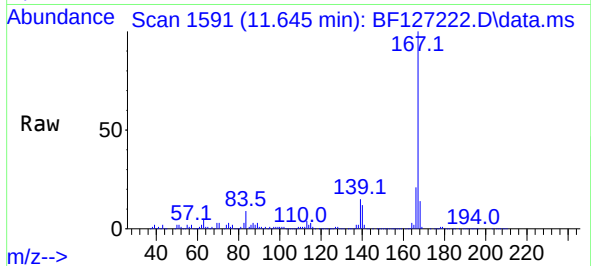
Tgt Ion:178 Resp: 291978
Ion Ratio Lower Upper
178 100
176 19.2 15.0 22.6
179 15.3 12.5 18.7





#73
 Carbazole
 Concen: 10.999 ng
 RT: 11.645 min Scan# 11268
 Delta R.T. -0.006 min
 Lab File: BF127222.D
 Acq: 07 Mar 2022 14:33

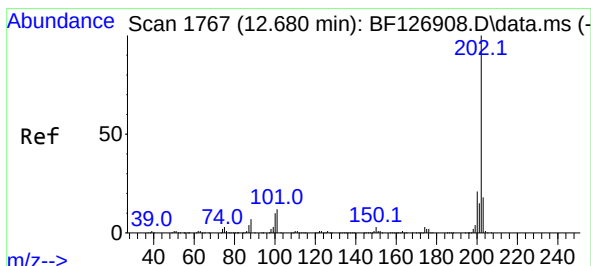
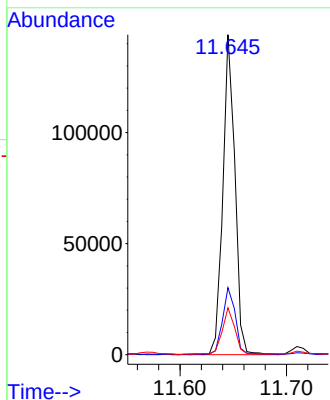
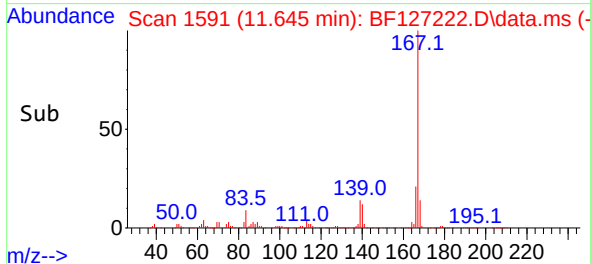
Instrument : BNA_F
 ClientSampleId : VACLOT-TOPSOIL-GRILLO-01A



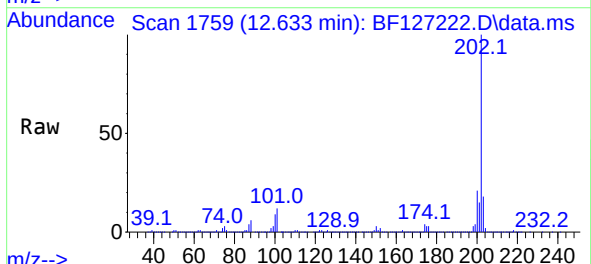
Tgt Ion:167 Resp: 11268
 Ion Ratio Lower Upper
 167 100
 166 20.9 16.9 25.3
 139 14.7 11.3 16.9

Manual Integrations
 APPROVED

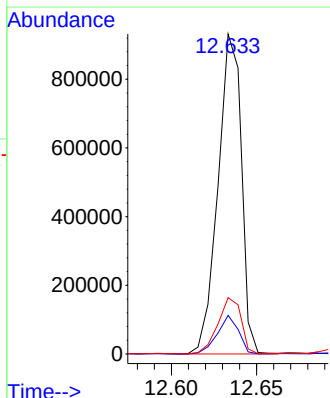
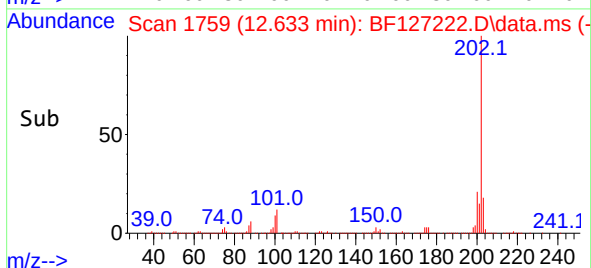
Reviewed By :Christian Giraldo 03/08/2022
 Supervised By :Jagrut Upadhyay 03/08/2022

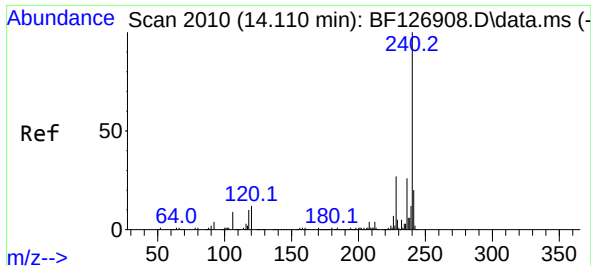


#75
 Fluoranthene
 Concen: 83.432 ng
 RT: 12.633 min Scan# 1759
 Delta R.T. -0.000 min
 Lab File: BF127222.D
 Acq: 07 Mar 2022 14:33



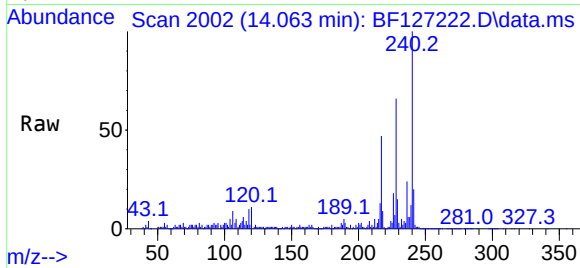
Tgt Ion:202 Resp: 889005
 Ion Ratio Lower Upper
 202 100
 101 12.0 0.0 35.7
 203 17.6 0.0 37.1





#76
Chrysene-d12
Concen: 20.000 ng
RT: 14.063 min Scan# 2010
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

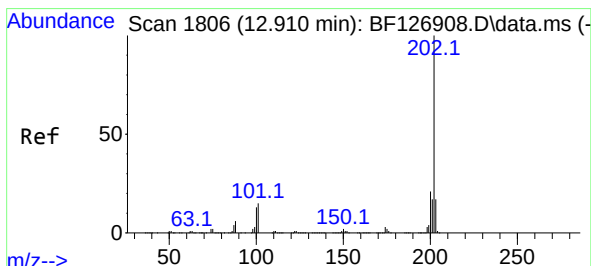
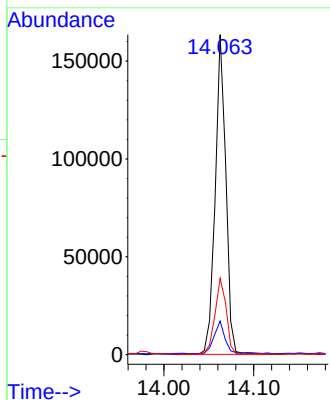
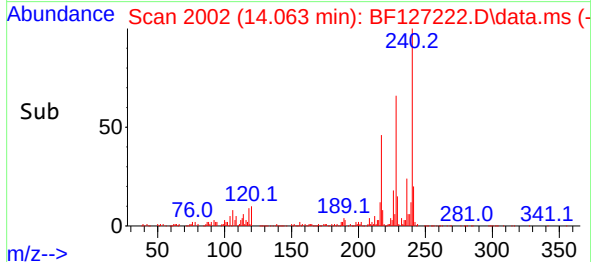
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01A



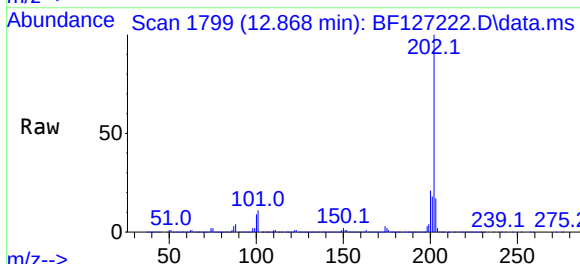
Tgt Ion:240 Resp: 13444
Ion Ratio Lower Upper
240 100
120 10.5 14.4 21.6
236 23.8 20.5 30.7

Manual Integrations
APPROVED

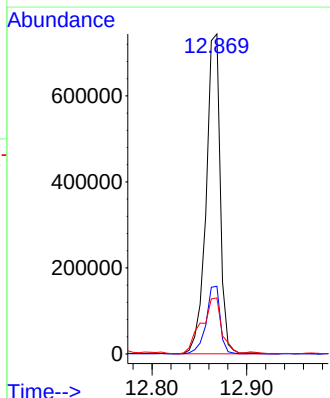
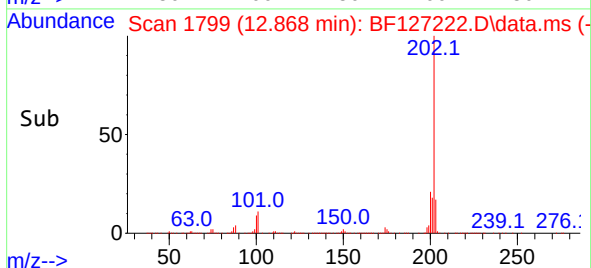
Reviewed By :Christian Giraldo 03/08/2022
Supervised By :Jagrut Upadhyay 03/08/2022

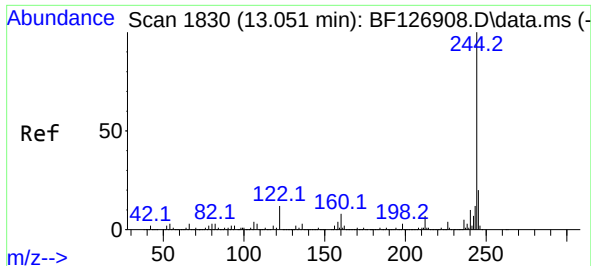


#78
Pyrene
Concen: 65.484 ng
RT: 12.868 min Scan# 1799
Delta R.T. 0.006 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33



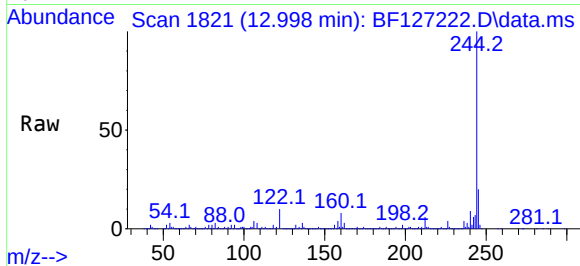
Tgt Ion:202 Resp: 764887
Ion Ratio Lower Upper
202 100
200 21.2 16.6 24.8
203 17.5 13.8 20.8





#79
Terphenyl-d14
Concen: 43.385 ng
RT: 12.998 min Scan# 11
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

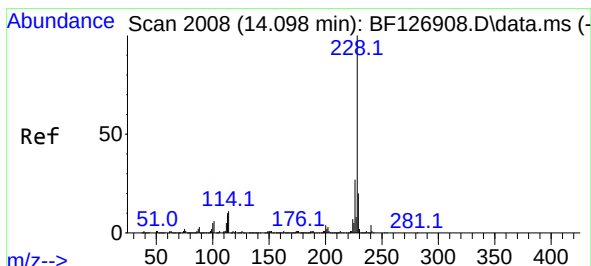
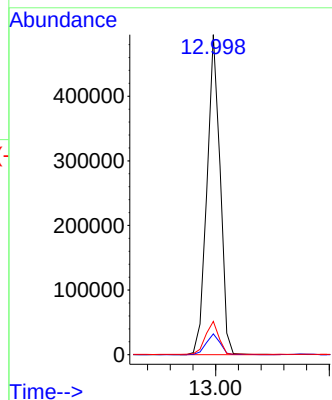
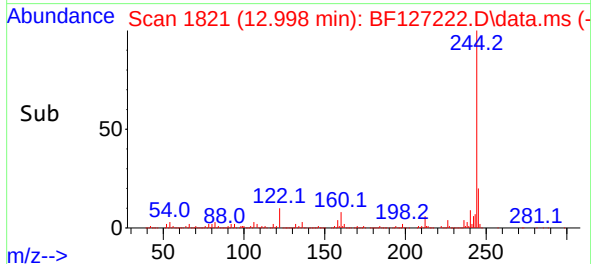
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01A



Tgt Ion:244 Resp: 396790
Ion Ratio Lower Upper
244 100
212 6.5 5.0 7.4
122 10.4 13.3 19.9

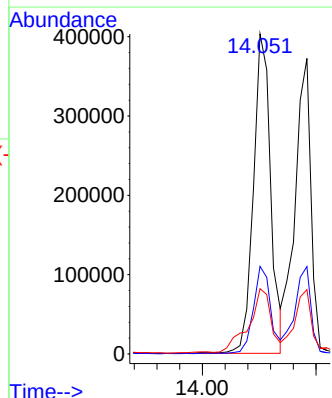
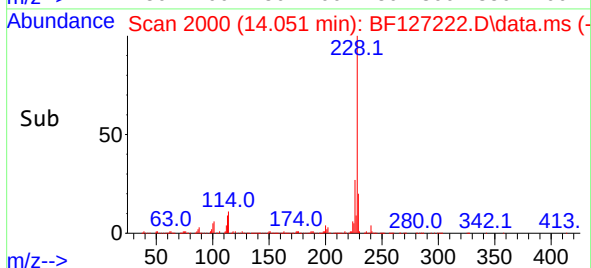
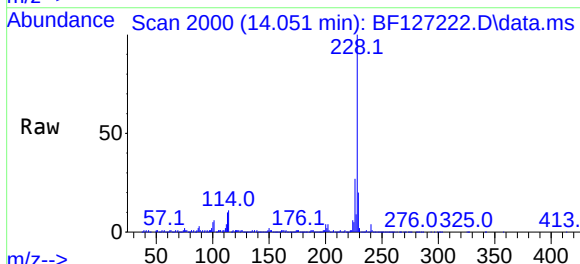
Manual Integrations
APPROVED

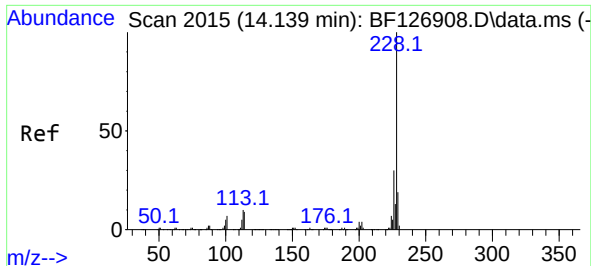
Reviewed By :Christian Giraldo 03/08/2022
Supervised By :Jagrut Upadhyay 03/08/2022



#81
Benzo(a)anthracene
Concen: 47.046 ng
RT: 14.051 min Scan# 2000
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

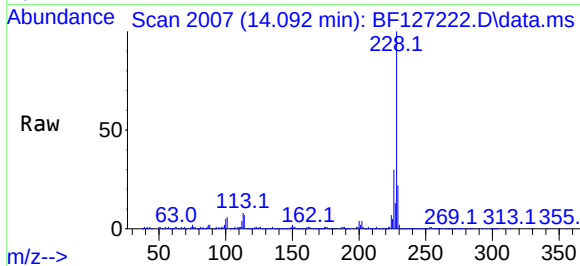
Tgt Ion:228 Resp: 426423
Ion Ratio Lower Upper
228 100
226 27.3 21.4 32.0
229 20.4 15.4 23.2





#83
Chrysene
Concen: 42.643 ng
RT: 14.092 min Scan# 2015
Delta R.T. 0.006 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

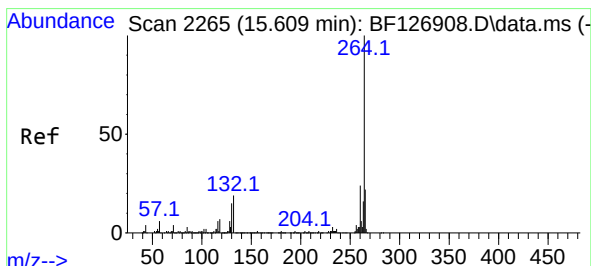
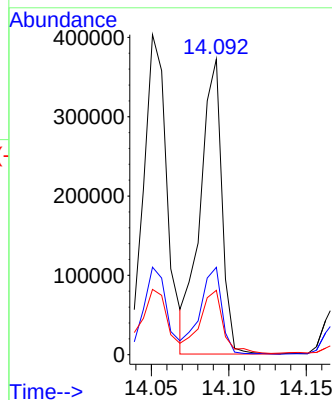
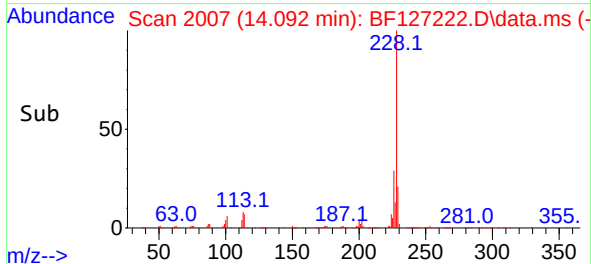
Instrument :
BNA_F
ClientSampleId :
VACLOT-TOPSOIL-GRILLO-01A



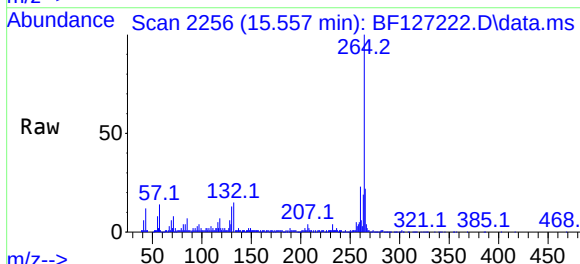
Tgt Ion:228 Resp: 363464
Ion Ratio Lower Upper
228 100
226 29.6 23.7 35.5
229 21.8 15.5 23.3

Manual Integrations
APPROVED

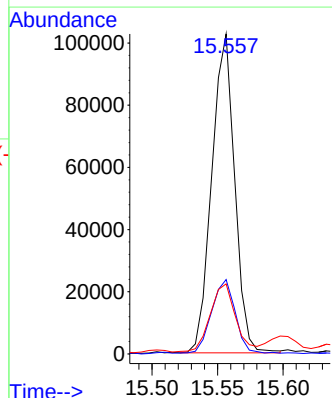
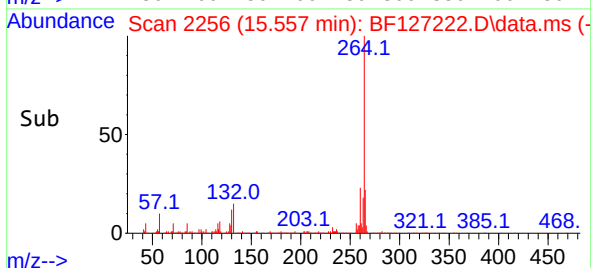
Reviewed By :Christian Giraldo 03/08/2022
Supervised By :Jagrut Upadhyay 03/08/2022

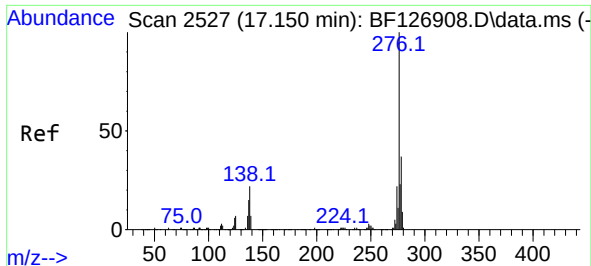


#86
Perylene-d12
Concen: 20.000 ng
RT: 15.557 min Scan# 2256
Delta R.T. 0.012 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33



Tgt Ion:264 Resp: 124580
Ion Ratio Lower Upper
264 100
260 23.2 19.2 28.8
265 21.9 17.4 26.2





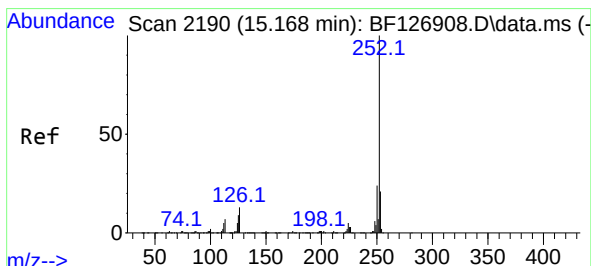
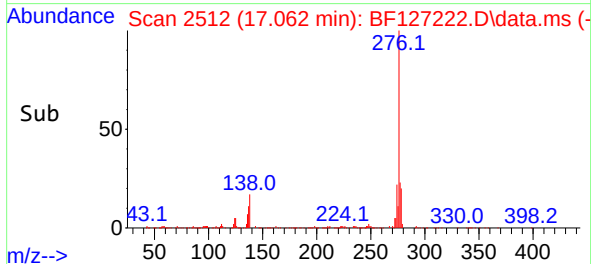
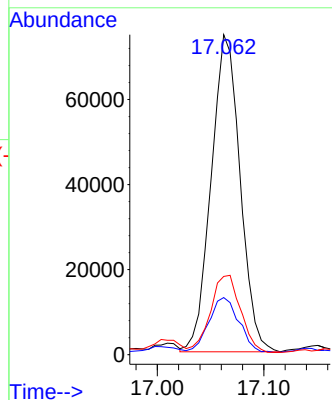
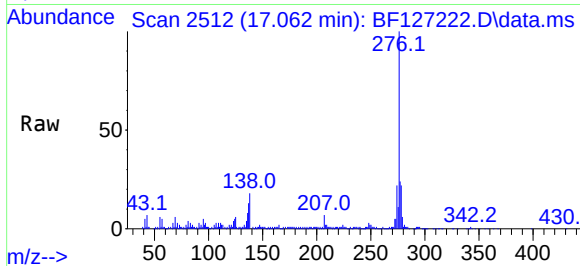
#87
Indeno(1,2,3-cd)pyrene
Concen: 17.240 ng
RT: 17.062 min Scan# 2181
Delta R.T. 0.006 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

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

Tgt Ion:276 Resp: 140835
Ion Ratio Lower Upper
276 100
138 18.0 29.2 43.8
277 25.2 19.8 29.8

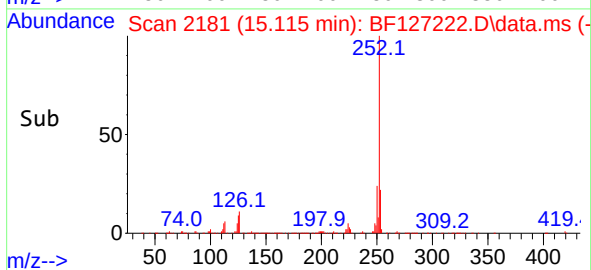
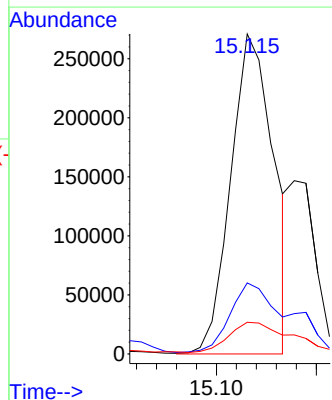
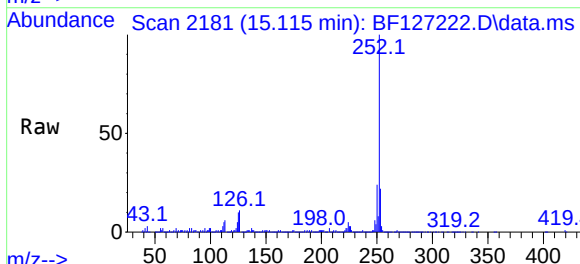
Manual Integrations
APPROVED

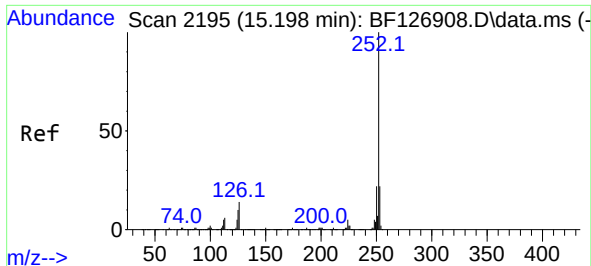
Reviewed By :Christian Giraldo 03/08/2022
Supervised By :Jagrut Upadhyay 03/08/2022



#88
Benzo(b)fluoranthene
Concen: 48.537 ng m
RT: 15.115 min Scan# 2181
Delta R.T. 0.006 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

Tgt Ion:252 Resp: 406118
Ion Ratio Lower Upper
252 100
253 22.2 17.8 26.8
125 9.9 12.4 18.6#





#89

Benzo(k)fluoranthene

Concen: 16.755 ng m

RT: 15.139 min Scan# 2195

Delta R.T. -0.000 min

Lab File: BF127222.D

Acq: 07 Mar 2022 14:33

Instrument :

BNA_F

ClientSampleId :

VACLOT-TOPSOIL-GRILLO-01A

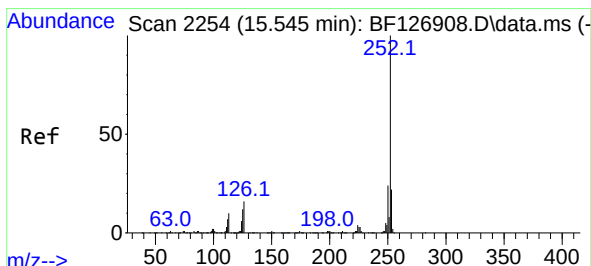
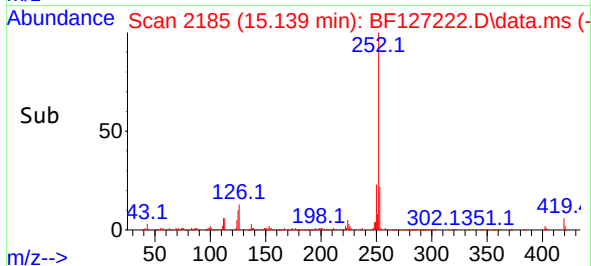
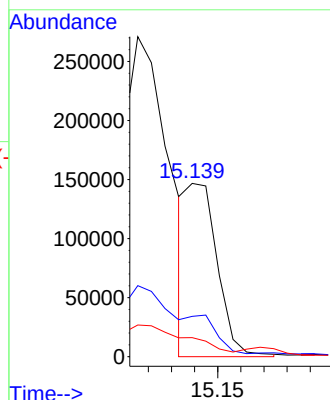
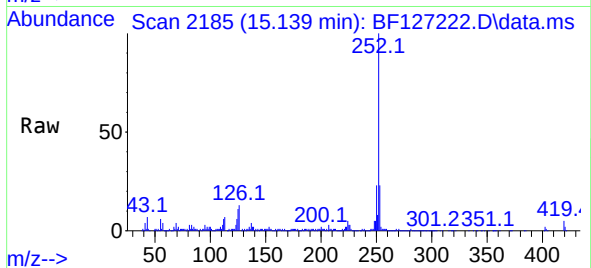
Tgt Ion:252 Resp: 135219

Ion	Ratio	Lower	Upper
252	100		
253	23.3	17.5	26.3
125	11.0	11.8	17.6

Manual Integrations

APPROVED

Reviewed By :Christian Giraldo 03/08/2022
Supervised By :Jagrut Upadhyay 03/08/2022



#90

Benzo(a)pyrene

Concen: 45.096 ng m

RT: 15.492 min Scan# 2245

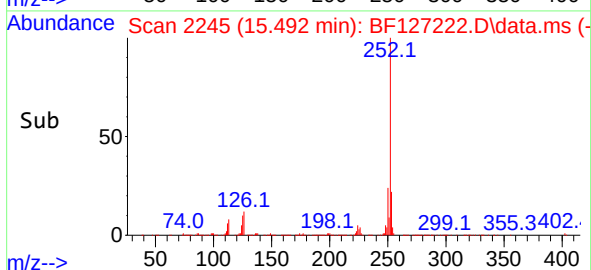
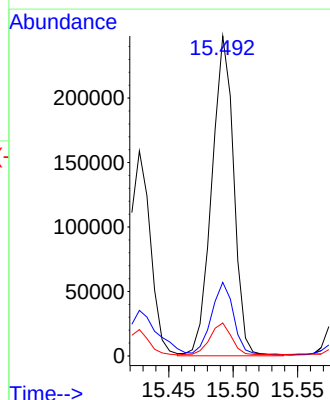
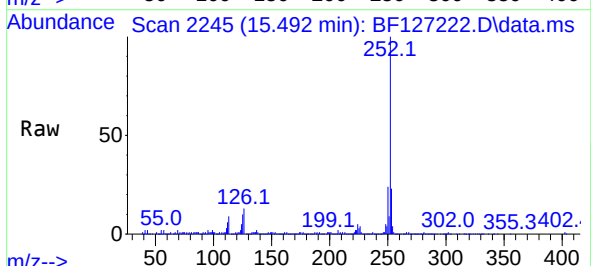
Delta R.T. 0.006 min

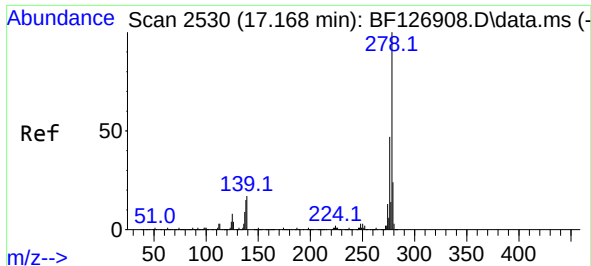
Lab File: BF127222.D

Acq: 07 Mar 2022 14:33

Tgt Ion:252 Resp: 294732

Ion	Ratio	Lower	Upper
252	100		
253	23.0	17.1	25.7
125	10.3	13.0	19.6





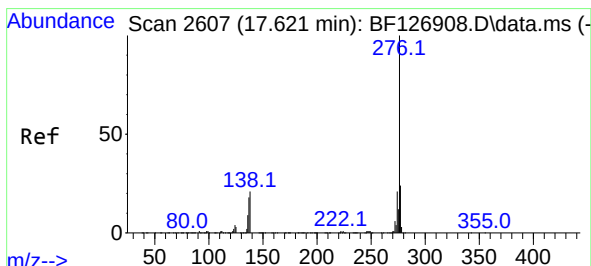
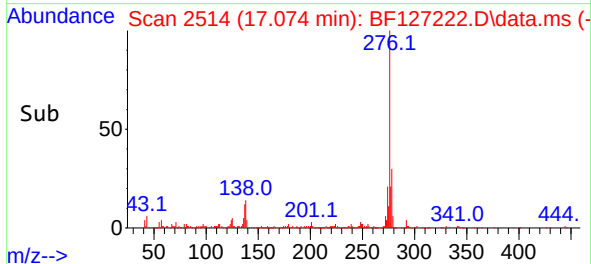
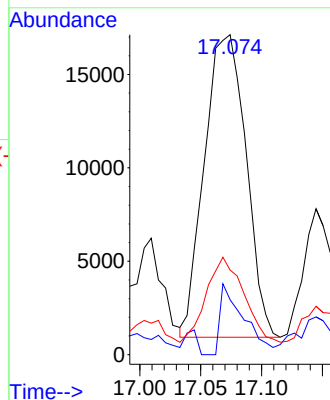
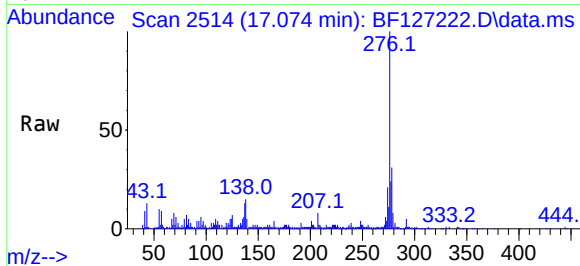
#91
Dibenzo(a,h)anthracene
Concen: 5.690 ng
RT: 17.074 min Scan# 2514
Delta R.T. -0.000 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

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

Tgt Ion:278 Resp: 38439
Ion Ratio Lower Upper
278 100
139 17.1 18.0 27.0
279 26.5 18.6 27.8

Manual Integrations
APPROVED

Reviewed By :Christian Giraldo 03/08/2022
Supervised By :Jagrut Upadhyay 03/08/2022



#92
Benzo(g,h,i)perylene
Concen: 19.096 ng
RT: 17.527 min Scan# 2591
Delta R.T. 0.006 min
Lab File: BF127222.D
Acq: 07 Mar 2022 14:33

Tgt Ion:276 Resp: 127192
Ion Ratio Lower Upper
276 100
277 21.8 18.5 27.7
138 18.3 25.9 38.9

