

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101521\
 Data File : BF125869.D
 Acq On : 15 Oct 2021 18:38
 Operator : JU/CG
 Sample : M4195-03DL 2X
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HAR-SOILPILE DL

Quant Time: Oct 18 08:57:13 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100721.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Oct 15 15:00:46 2021
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

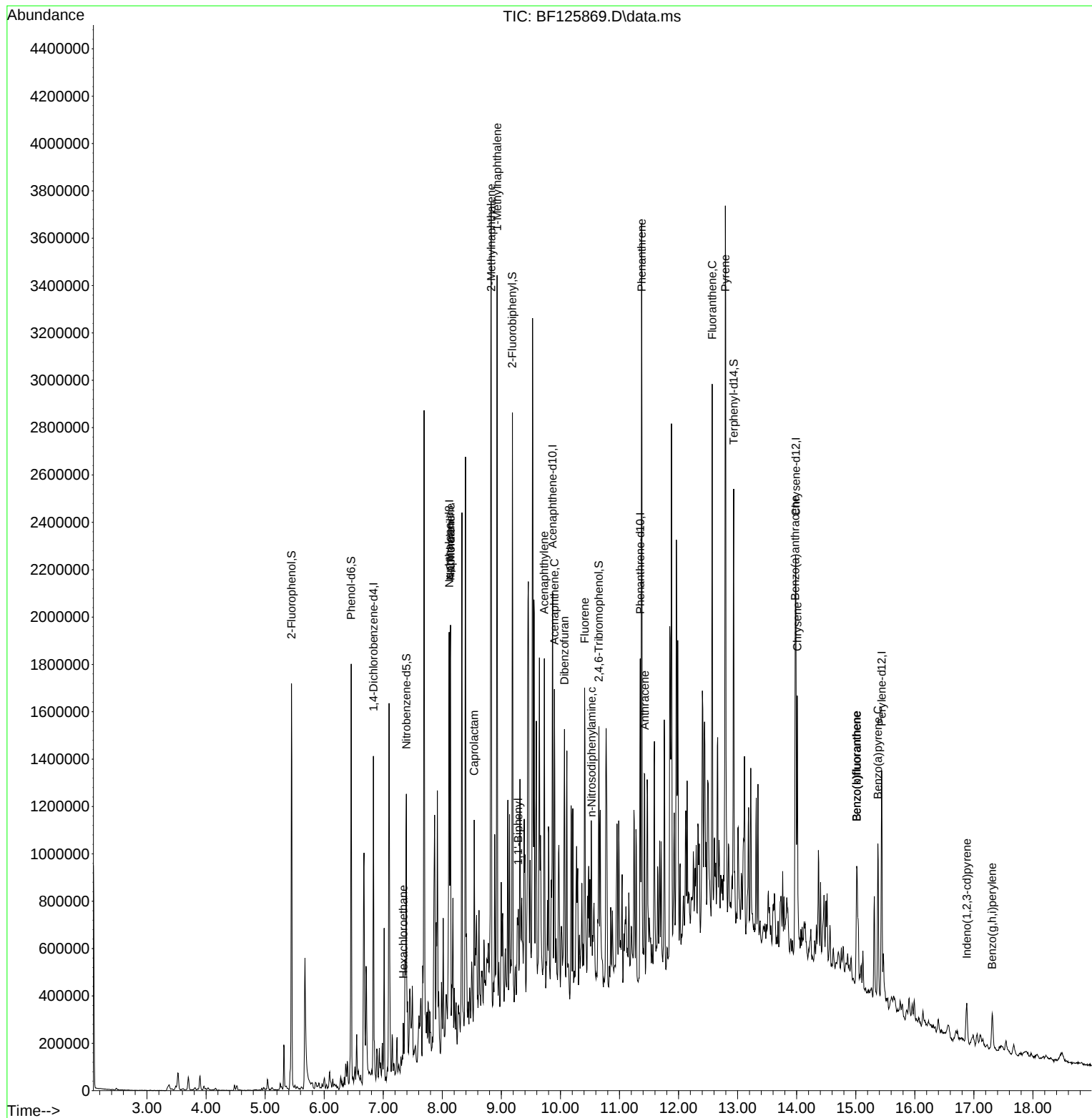
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.834	152	190932	20.000	ng	0.00
21) Naphthalene-d8	8.116	136	723381	20.000	ng	# 0.00
39) Acenaphthene-d10	9.869	164	353834	20.000	ng	0.00
64) Phenanthrene-d10	11.351	188	492247	20.000	ng	0.00
76) Chrysene-d12	13.986	240	437360	20.000	ng	0.00
86) Perylene-d12	15.439	264	420669	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.445	112	499825	42.765	ng	0.00
7) Phenol-d6	6.457	99	600504	39.912	ng	0.00
23) Nitrobenzene-d5	7.392	82	350533	30.121	ng	0.00
42) 2,4,6-Tribromophenol	10.651	330	103562	29.645	ng	0.00
45) 2-Fluorobiphenyl	9.186	172	674925	32.900	ng	0.00
79) Terphenyl-d14	12.933	244	581740	20.261	ng	0.00
Target Compounds						Qvalue
18) Hexachloroethane	7.339	117	29214	5.957	ng	# 10
31) Naphthalene	8.139	128	734887	21.011	ng	99
33) 4-Chloroaniline	8.139	127	93290	6.373	ng	# 32
35) Caprolactam	8.539	113	17872	6.046	ng	# 76
37) 2-Methylnaphthalene	8.828	142	590164	26.054	ng	100
38) 1-Methylnaphthalene	8.928	142	718612	32.694	ng	96
46) 1,1'-Biphenyl	9.286	154	75768	2.913	ng	97
49) Acenaphthylene	9.727	152	286134	9.250	ng	# 92
52) Acenaphthene	9.898	154	211391	10.938	ng	98
55) Dibenzofuran	10.069	168	68851	2.378	ng	# 57
58) Fluorene	10.410	166	310809	14.658	ng	99
66) n-Nitrosodiphenylamine	10.527	169	63718	3.795	ng	# 77
71) Phenanthrene	11.374	178	1198087	45.490	ng	97
72) Anthracene	11.427	178	360540	13.706	ng	100
75) Fluoranthene	12.568	202	714975	30.086	ng	96
78) Pyrene	12.792	202	1327550	29.878	ng	96
81) Benzo(a)anthracene	13.974	228	447563	15.773	ng	94
83) Chrysene	14.010	228	417576	14.889	ng	96
87) Indeno(1,2,3-cd)pyrene	16.880	276	103256	3.216	ng	95
88) Benzo(b)fluoranthene	15.015	252	415323	17.488	ng	98
89) Benzo(k)fluoranthene	15.015	252	415323	17.033	ng	# 97
90) Benzo(a)pyrene	15.374	252	319951	15.213	ng	98
92) Benzo(g,h,i)perylene	17.309	276	111167	4.110	ng	97

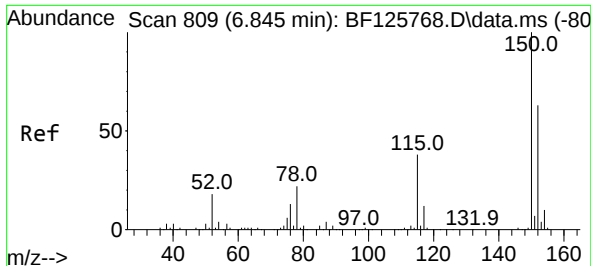
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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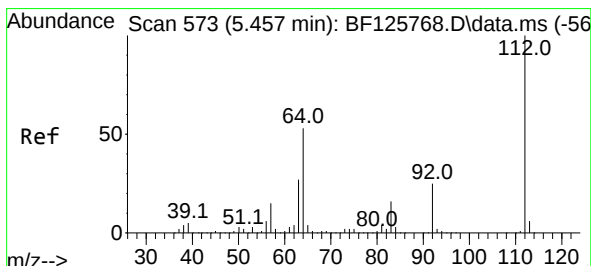
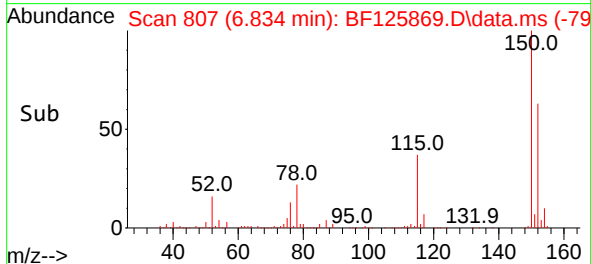
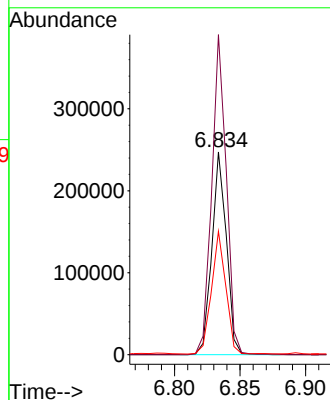
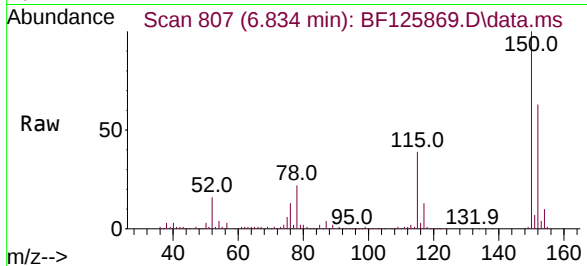




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.834 min Scan# 807
Delta R.T. -0.000 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

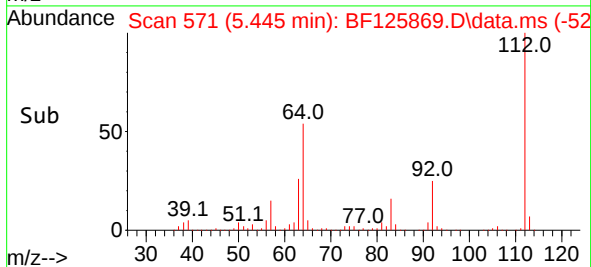
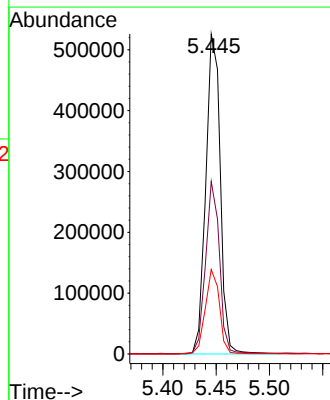
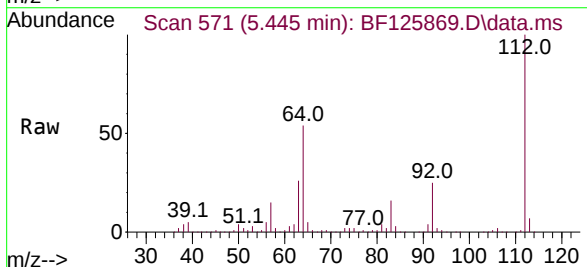
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ClientSampleId :
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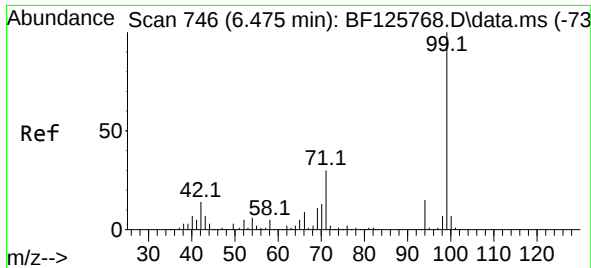
Tgt Ion:152 Resp: 190932
Ion Ratio Lower Upper
152 100
150 157.8 117.6 176.4
115 60.8 47.1 70.7



#5
2-Fluorophenol
Concen: 42.765 ng
RT: 5.445 min Scan# 571
Delta R.T. -0.006 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

Tgt Ion:112 Resp: 499825
Ion Ratio Lower Upper
112 100
64 53.9 44.2 66.2
63 26.4 26.2 39.2

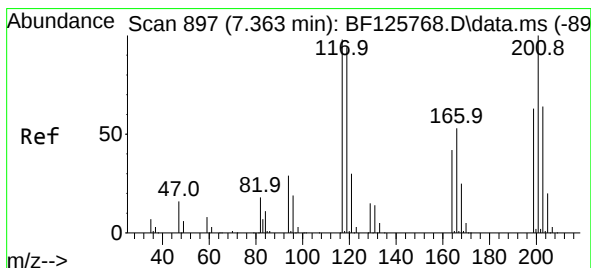
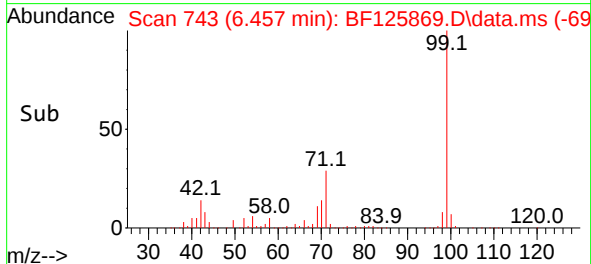
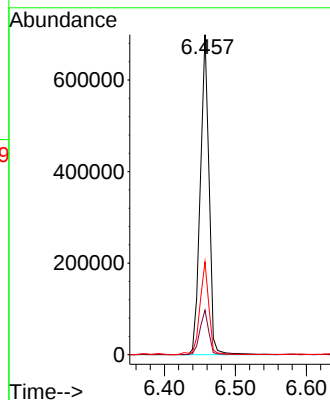
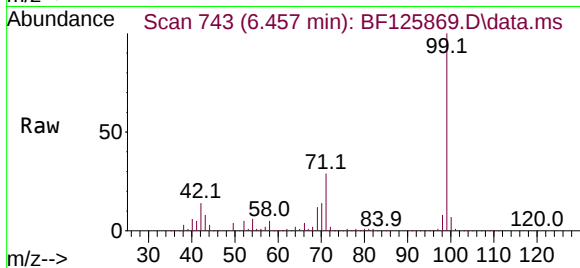




#7
Phenol-d6
Concen: 39.912 ng
RT: 6.457 min Scan# 743
Delta R.T. -0.006 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

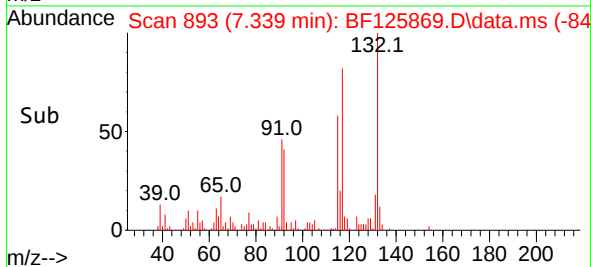
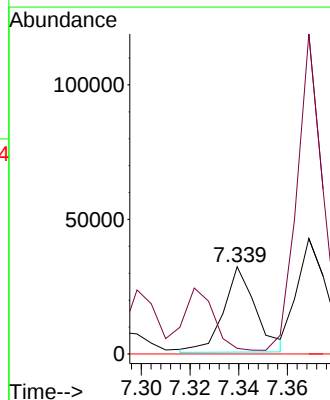
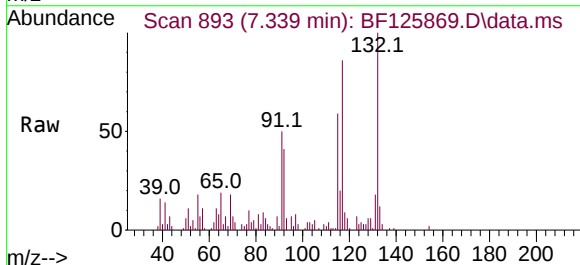
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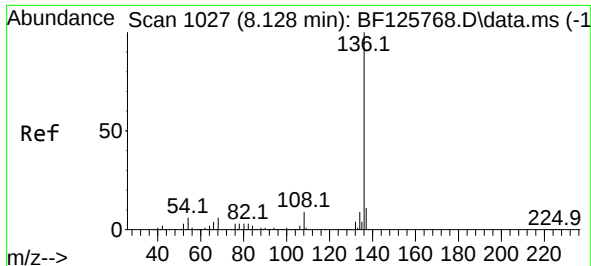
Tgt Ion: 99 Resp: 600504
Ion Ratio Lower Upper
99 100
42 13.9 23.5 35.3#
71 29.1 25.6 38.4



#18
Hexachloroethane
Concen: 5.957 ng
RT: 7.339 min Scan# 893
Delta R.T. -0.012 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

Tgt Ion: 117 Resp: 29214
Ion Ratio Lower Upper
117 100
119 6.5 73.4 110.2#
201 0.0 64.9 97.3#

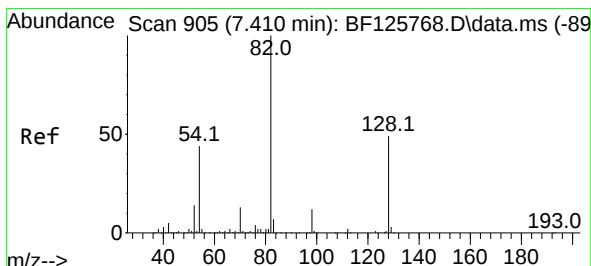
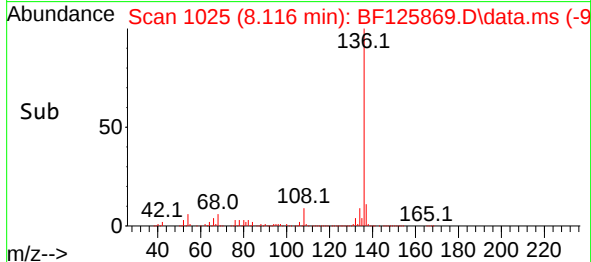
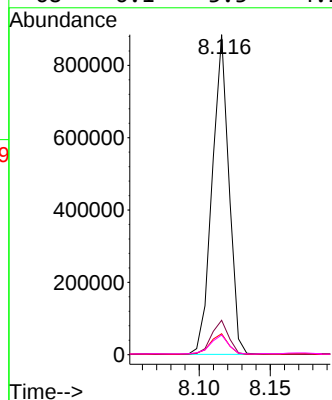
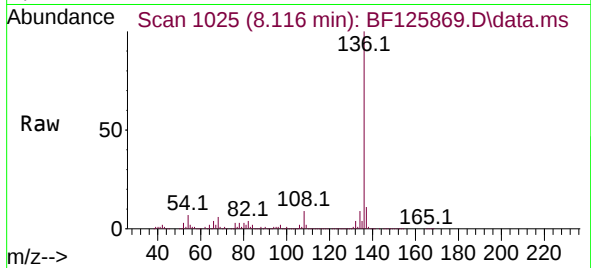




#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.116 min Scan# 1025
Delta R.T. -0.000 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

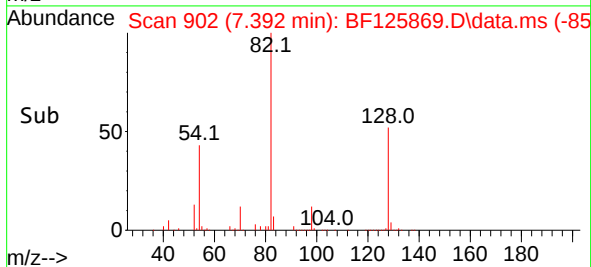
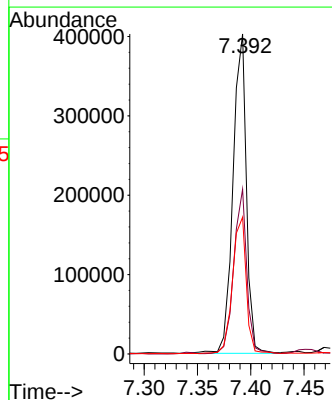
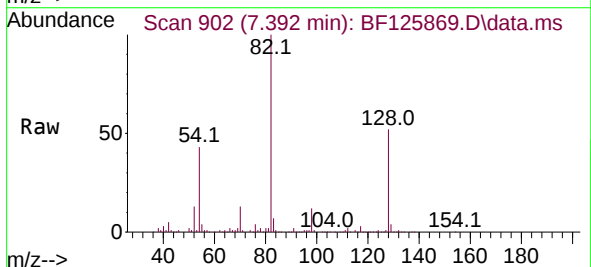
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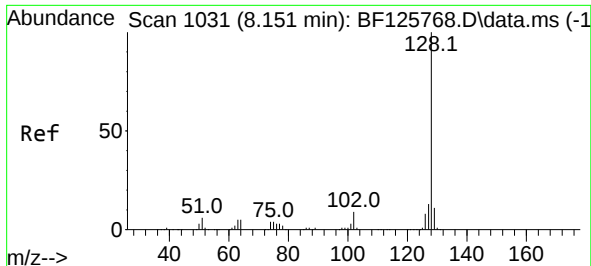
Tgt Ion:136 Resp: 723381
Ion Ratio Lower Upper
136 100
137 10.7 9.8 14.6
54 6.5 6.4 9.6
68 6.1 3.3 4.9#



#23
Nitrobenzene-d5
Concen: 30.121 ng
RT: 7.392 min Scan# 902
Delta R.T. -0.006 min
Lab File: BF125869.D
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Tgt Ion: 82 Resp: 350533
Ion Ratio Lower Upper
82 100
128 51.5 40.6 60.8
54 42.7 49.6 74.4#

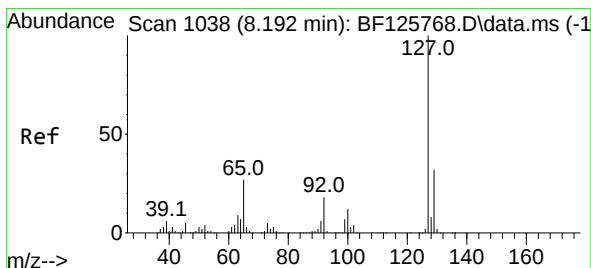
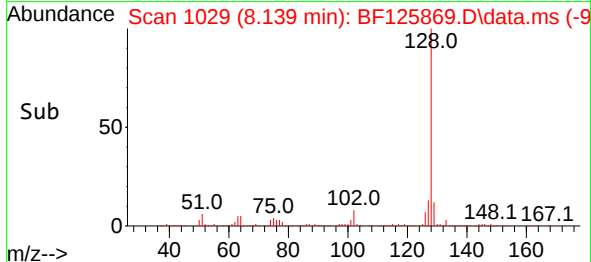
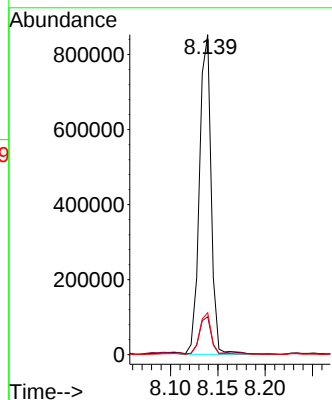
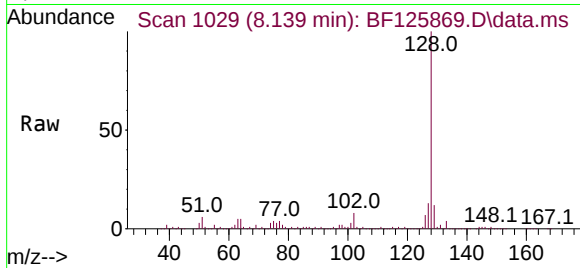




#31
Naphthalene
Concen: 21.011 ng
RT: 8.139 min Scan# 1029
Delta R.T. -0.000 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

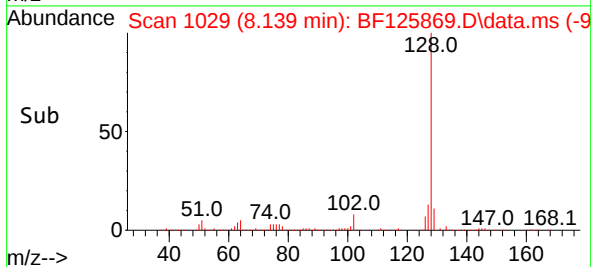
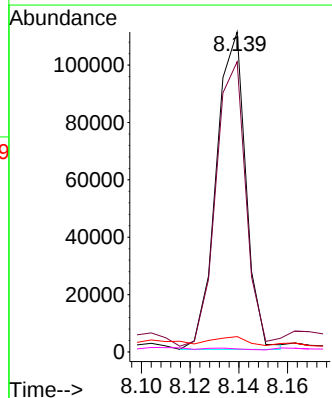
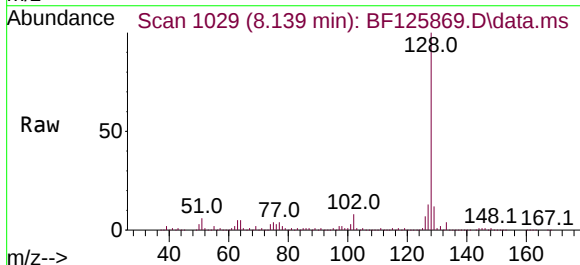
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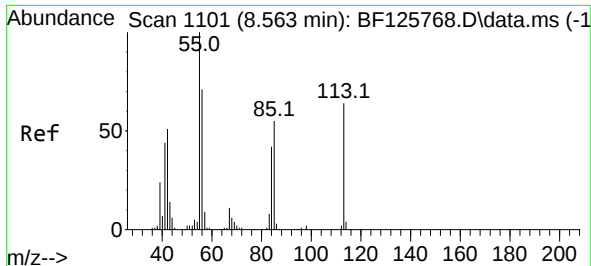
Tgt Ion:128 Resp: 734887
Ion Ratio Lower Upper
128 100
129 11.9 9.4 14.0
127 13.1 10.9 16.3



#33
4-Chloroaniline
Concen: 6.373 ng
RT: 8.139 min Scan# 1029
Delta R.T. -0.047 min
Lab File: BF125869.D
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Tgt Ion:127 Resp: 93290
Ion Ratio Lower Upper
127 100
129 90.7 25.7 38.5#
65 4.8 21.2 31.8#
92 1.0 14.0 21.0#

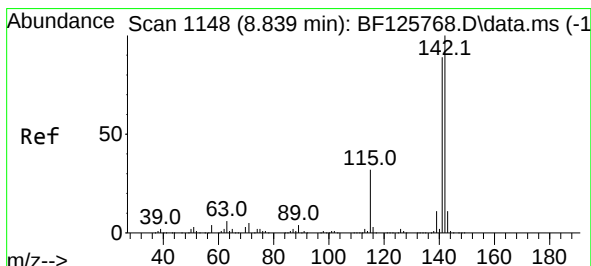
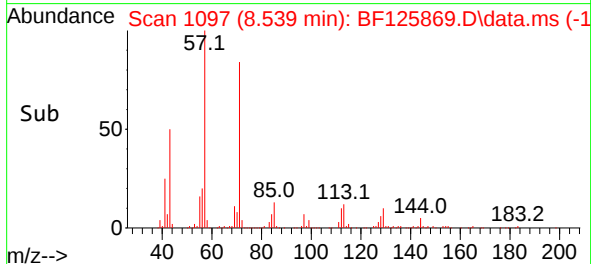
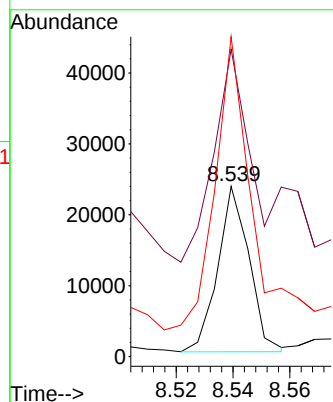
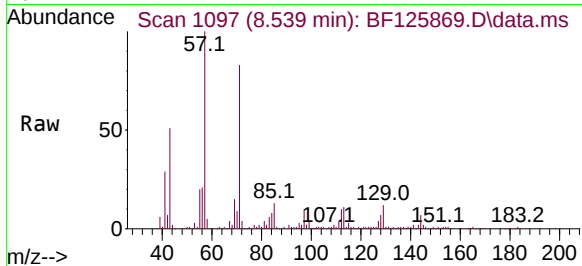




#35
Caprolactam
Concen: 6.046 ng
RT: 8.539 min Scan# 1097
Delta R.T. -0.018 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

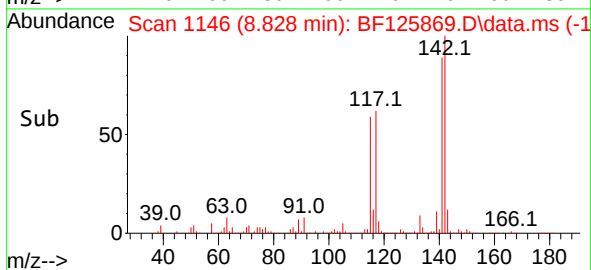
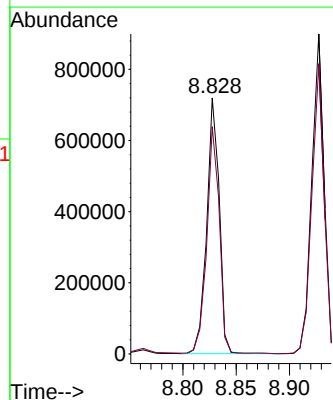
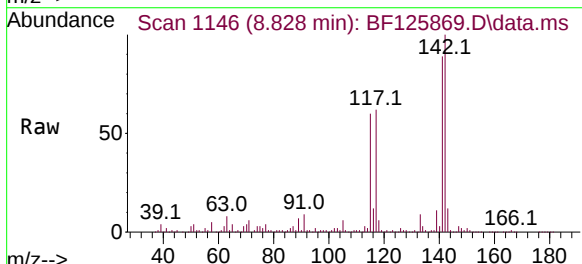
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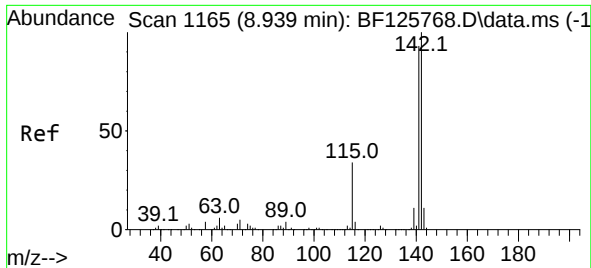
Tgt Ion:113 Resp: 17872
Ion Ratio Lower Upper
113 100
55 180.6 154.1 194.1
56 187.9 108.7 148.7#



#37
2-Methylnaphthalene
Concen: 26.054 ng
RT: 8.828 min Scan# 1146
Delta R.T. -0.000 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

Tgt Ion:142 Resp: 590164
Ion Ratio Lower Upper
142 100
141 88.8 71.2 106.8

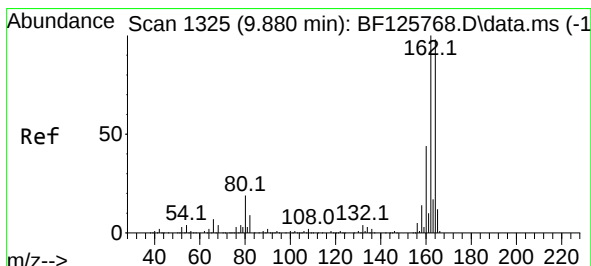
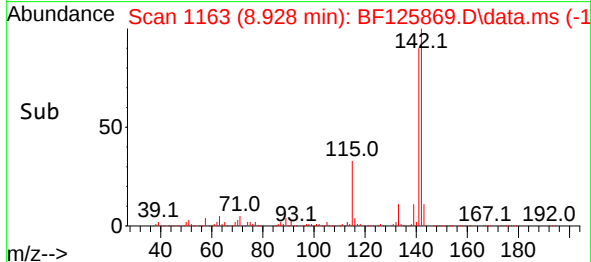
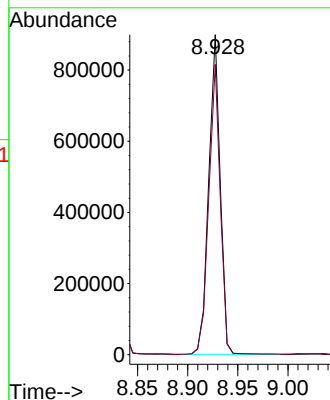
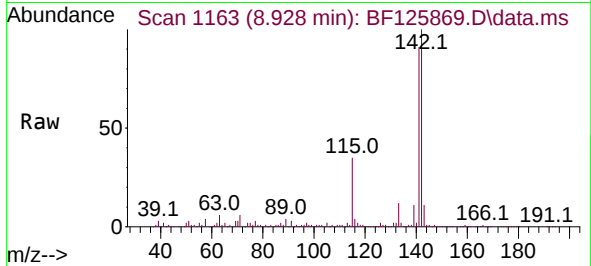




#38
1-Methylnaphthalene
Concen: 32.694 ng
RT: 8.928 min Scan# 1163
Delta R.T. -0.000 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

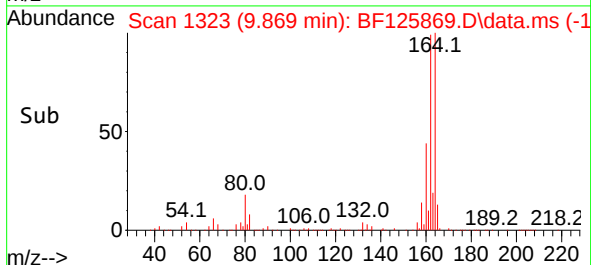
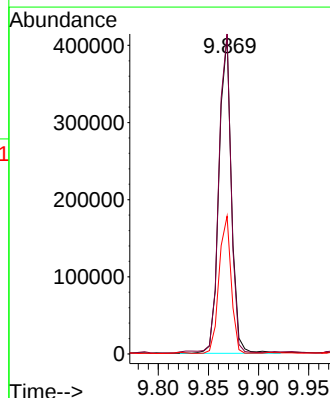
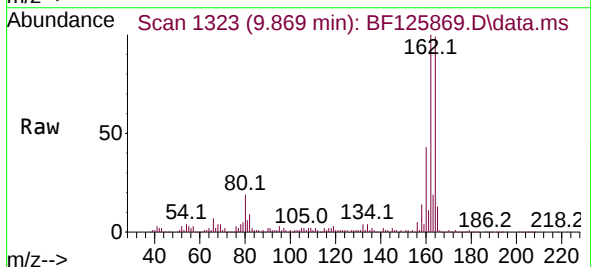
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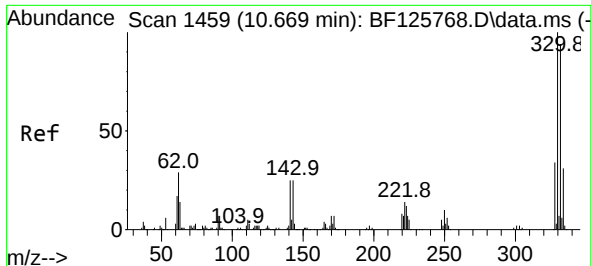
Tgt Ion:142 Resp: 718612
Ion Ratio Lower Upper
142 100
141 90.7 76.0 114.0



#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.869 min Scan# 1323
Delta R.T. -0.000 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

Tgt Ion:164 Resp: 353834
Ion Ratio Lower Upper
164 100
162 100.9 81.3 121.9
160 43.5 38.0 57.0

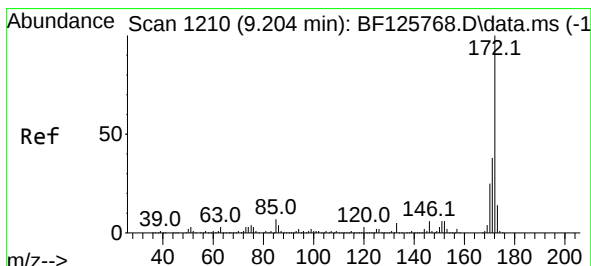
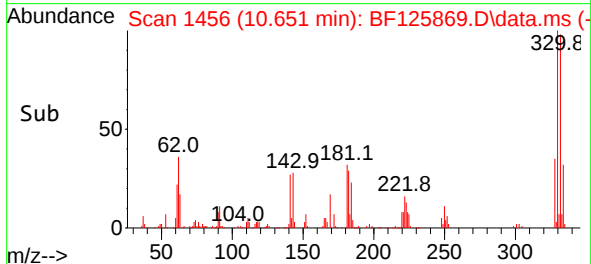
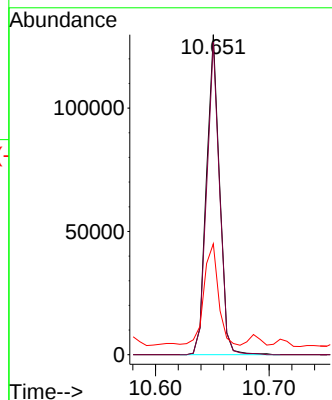
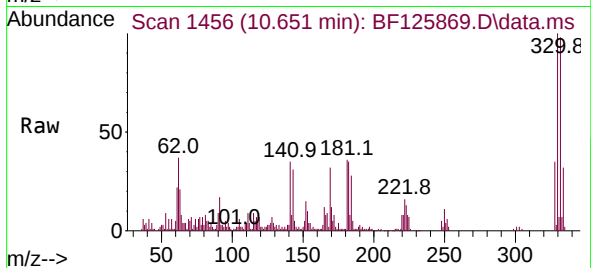




#42
2,4,6-Tribromophenol
Concen: 29.645 ng
RT: 10.651 min Scan# 1456
Delta R.T. -0.006 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

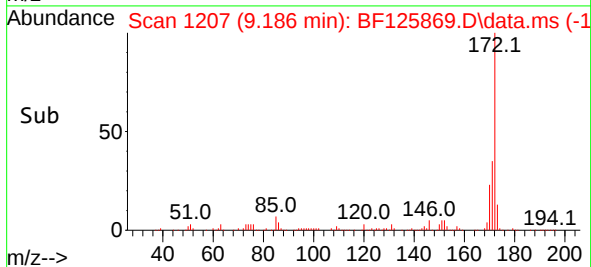
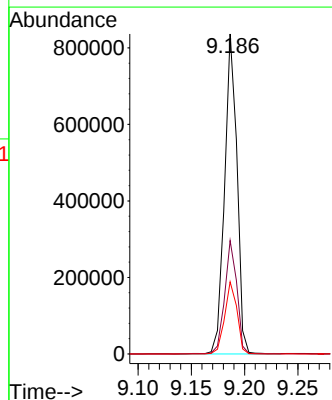
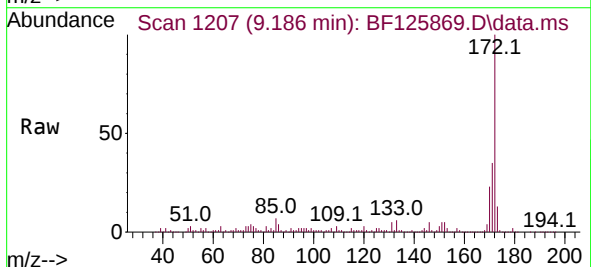
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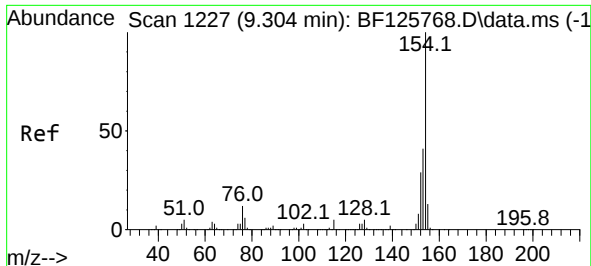
Tgt Ion:330 Resp: 103562
Ion Ratio Lower Upper
330 100
332 96.1 76.2 114.4
141 34.9 44.6 66.8#



#45
2-Fluorobiphenyl
Concen: 32.900 ng
RT: 9.186 min Scan# 1207
Delta R.T. -0.006 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

Tgt Ion:172 Resp: 674925
Ion Ratio Lower Upper
172 100
171 35.4 26.5 39.7
170 22.5 18.8 28.2

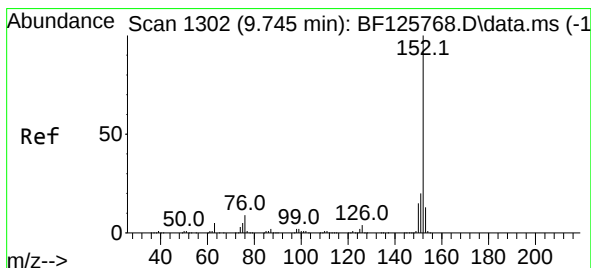
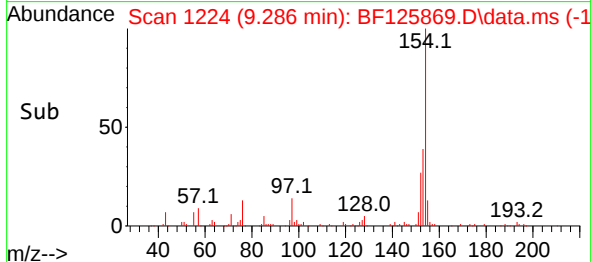
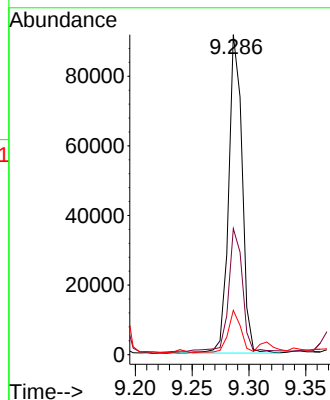
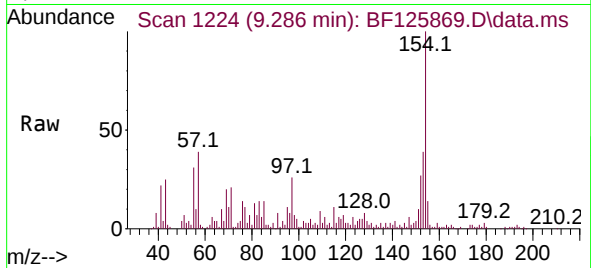




#46
1,1'-Biphenyl
Concen: 2.913 ng
RT: 9.286 min Scan# 1224
Delta R.T. -0.006 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

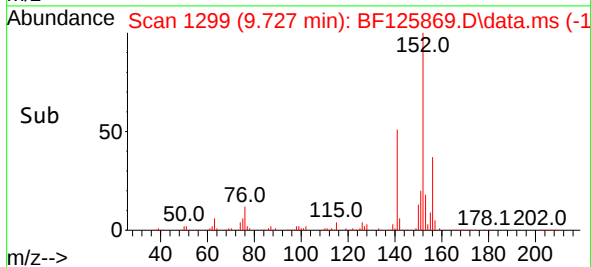
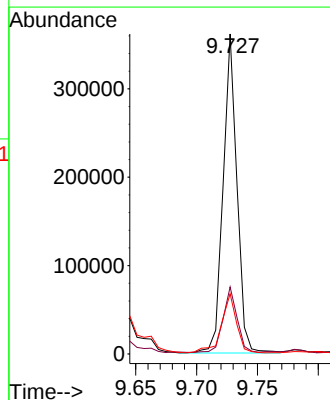
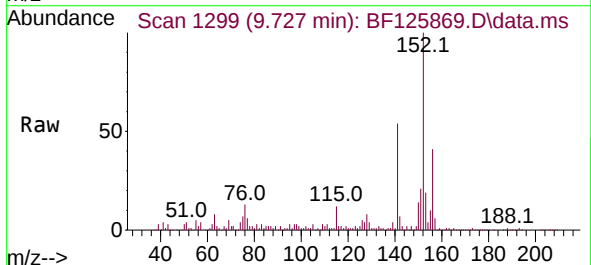
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE DL

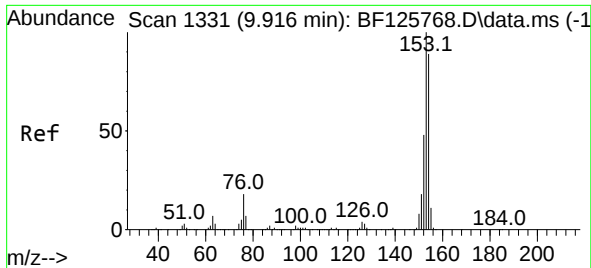
Tgt Ion:154	Resp:	75768
Ion Ratio	Lower	Upper
154	100	
153	39.4	20.0 60.0
76	13.9	0.0 30.3



#49
Acenaphthylene
Concen: 9.250 ng
RT: 9.727 min Scan# 1299
Delta R.T. -0.006 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

Tgt Ion:152	Resp:	286134
Ion Ratio	Lower	Upper
152	100	
151	20.9	15.7 23.5
153	18.8	9.8 14.8#

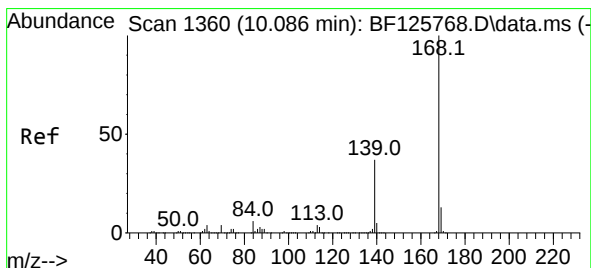
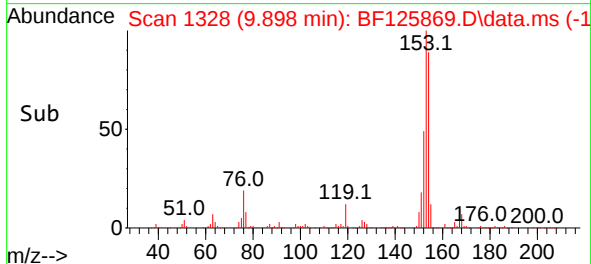
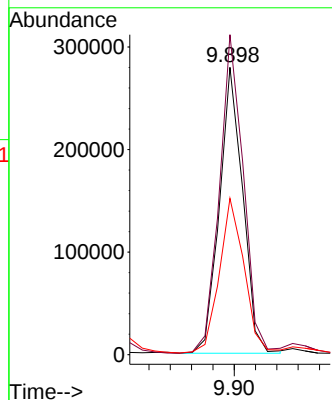
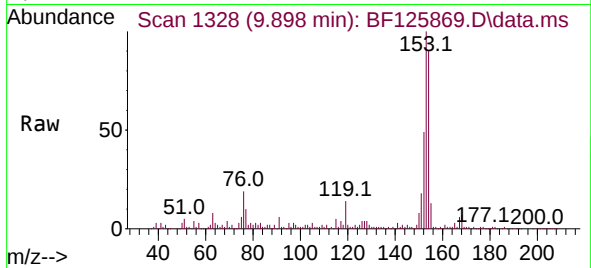




#52
Acenaphthene
Concen: 10.938 ng
RT: 9.898 min Scan# 1328
Delta R.T. -0.006 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

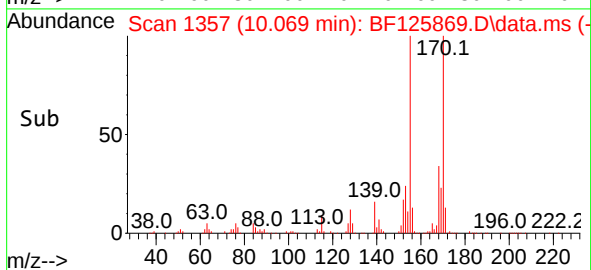
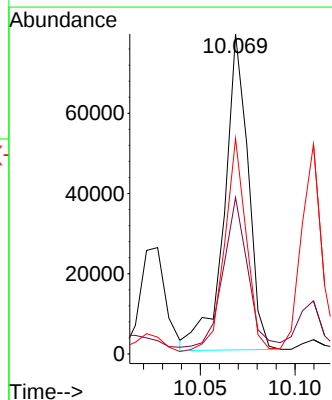
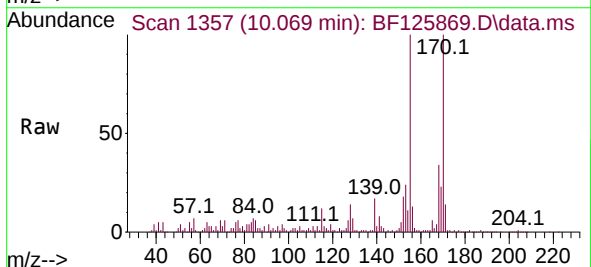
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE DL

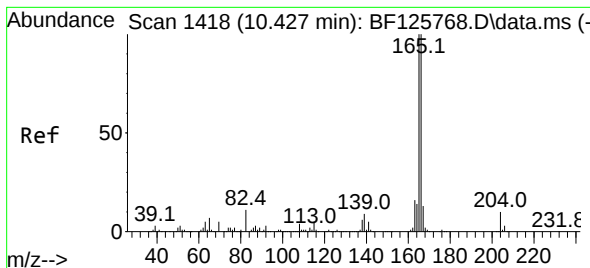
Tgt Ion:154 Resp: 211391
Ion Ratio Lower Upper
154 100
153 111.3 89.4 134.2
152 54.4 40.5 60.7



#55
Dibenzofuran
Concen: 2.378 ng
RT: 10.069 min Scan# 1357
Delta R.T. -0.006 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

Tgt Ion:168 Resp: 68851
Ion Ratio Lower Upper
168 100
139 48.9 32.7 49.1
169 67.4 11.2 16.8#

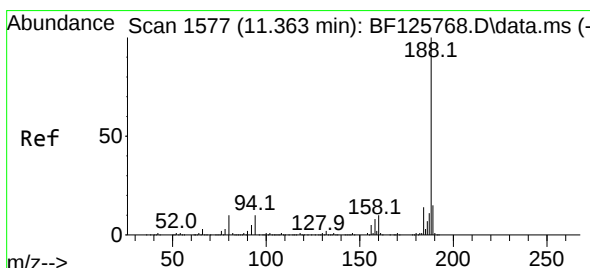
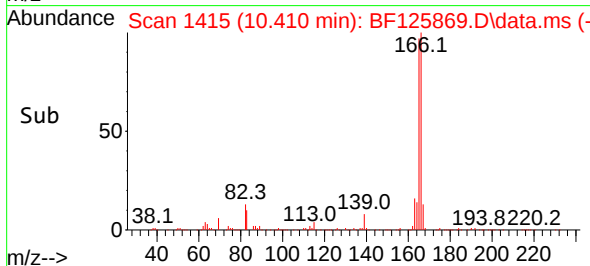
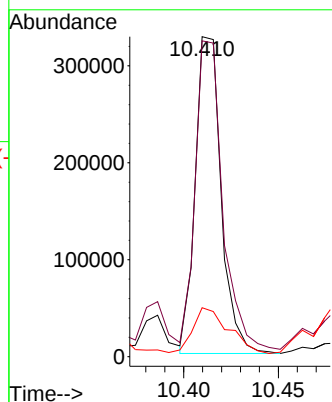
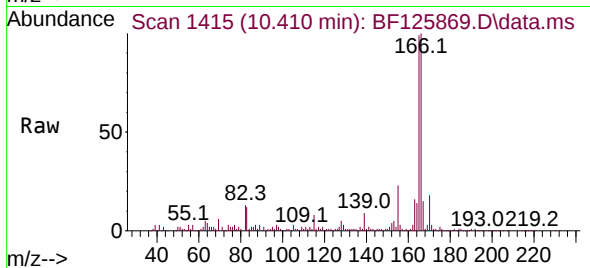




#58
Fluorene
Concen: 14.658 ng
RT: 10.410 min Scan# 1415
Delta R.T. -0.006 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

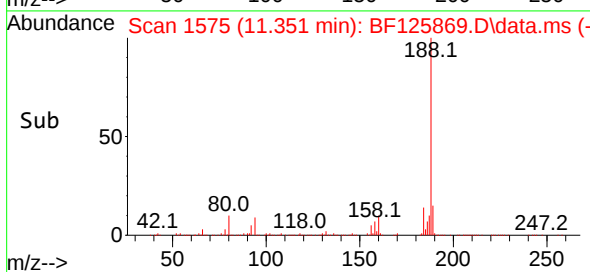
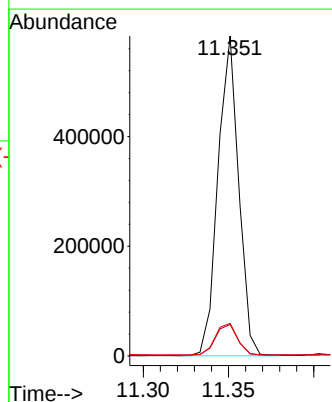
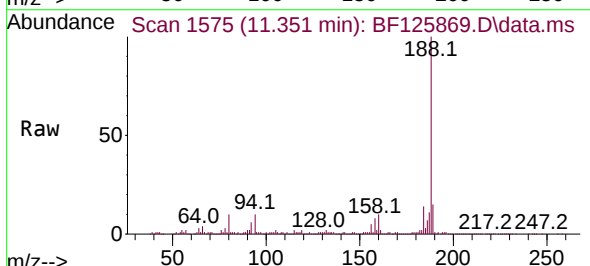
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE DL

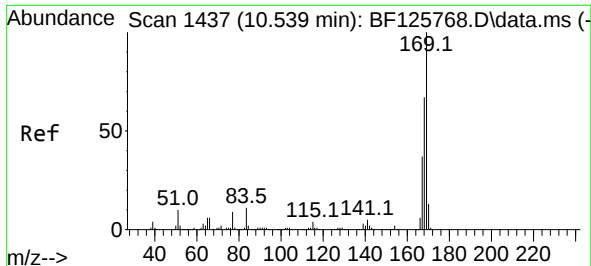
Tgt Ion:166 Resp: 310809
Ion Ratio Lower Upper
166 100
165 98.7 78.1 117.1
167 15.3 11.1 16.7



#64
Phenanthrene-d10
Concen: 20.000 ng
RT: 11.351 min Scan# 1575
Delta R.T. -0.000 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

Tgt Ion:188 Resp: 492247
Ion Ratio Lower Upper
188 100
94 9.9 6.7 10.1
80 10.2 7.5 11.3

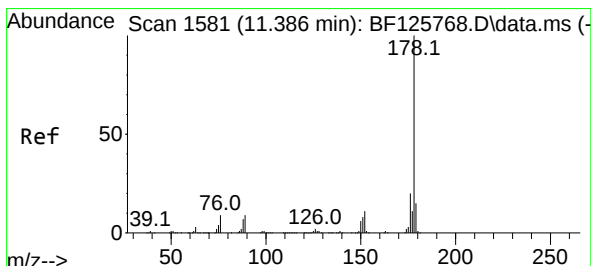
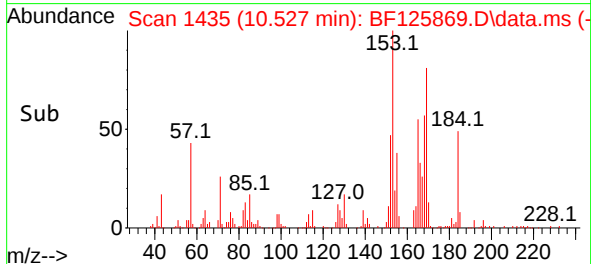
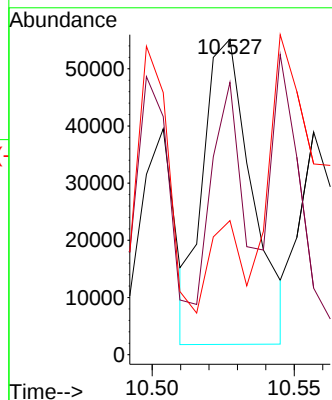
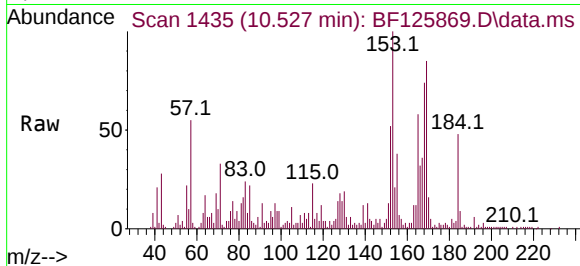




#66
n-Nitrosodiphenylamine
Concen: 3.795 ng
RT: 10.527 min Scan# 1435
Delta R.T. -0.000 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

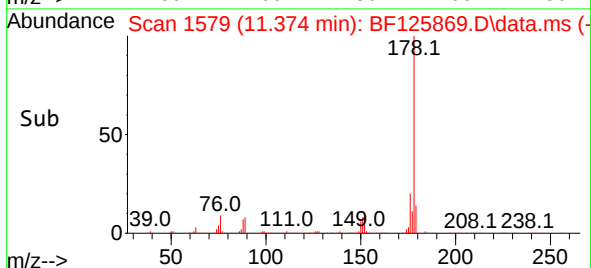
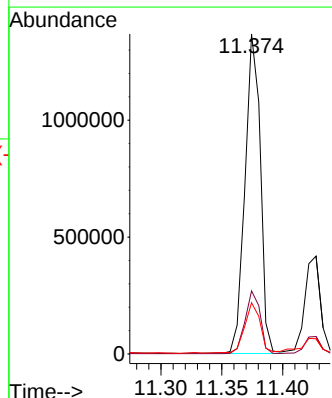
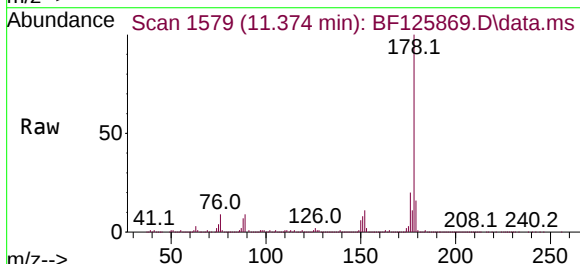
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE DL

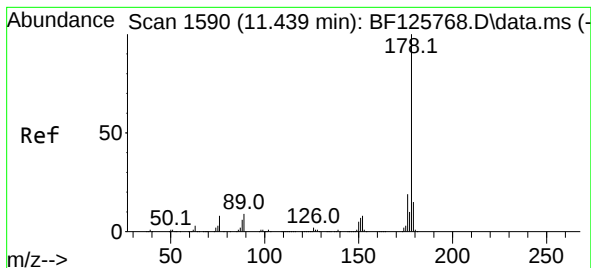
Tgt Ion:169 Resp: 63718
Ion Ratio Lower Upper
169 100
168 86.3 50.8 76.2#
167 42.5 28.8 43.2



#71
Phenanthrene
Concen: 45.490 ng
RT: 11.374 min Scan# 1579
Delta R.T. -0.000 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

Tgt Ion:178 Resp: 1198087
Ion Ratio Lower Upper
178 100
176 19.7 14.7 22.1
179 16.0 11.5 17.3





#72

Anthracene

Concen: 13.706 ng

RT: 11.427 min Scan# 1588

Delta R.T. -0.000 min

Lab File: BF125869.D

Acq: 15 Oct 2021 18:38

Tgt Ion:178 Resp: 360540

Ion Ratio Lower Upper

178 100

176 17.8 14.3 21.5

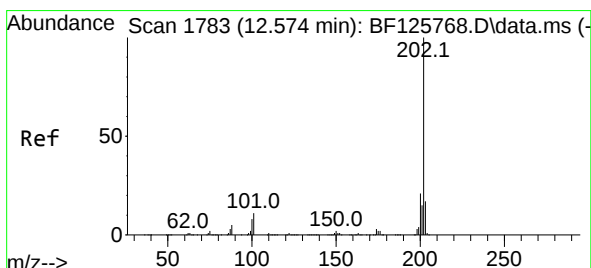
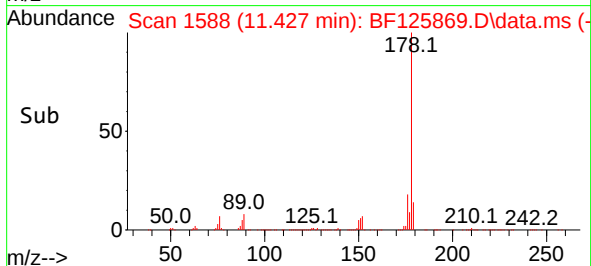
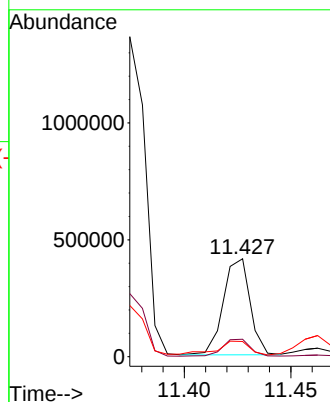
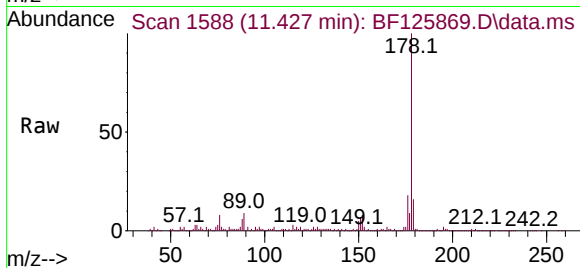
179 15.6 12.2 18.4

Instrument :

BNA_F

ClientSampleId :

HAR-SOILPILE DL



#75

Fluoranthene

Concen: 30.086 ng

RT: 12.568 min Scan# 1782

Delta R.T. 0.006 min

Lab File: BF125869.D

Acq: 15 Oct 2021 18:38

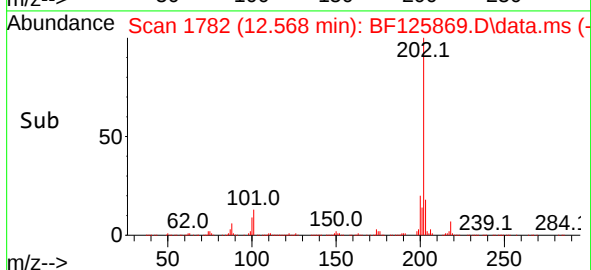
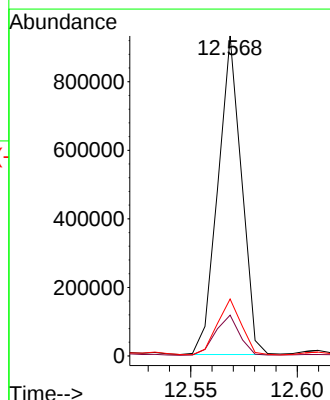
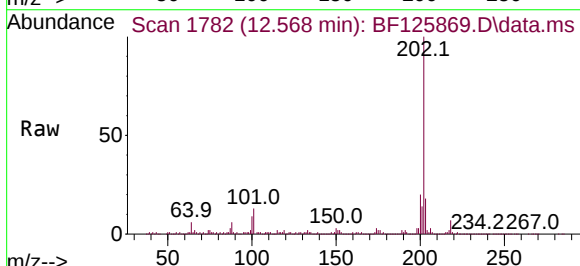
Tgt Ion:202 Resp: 714975

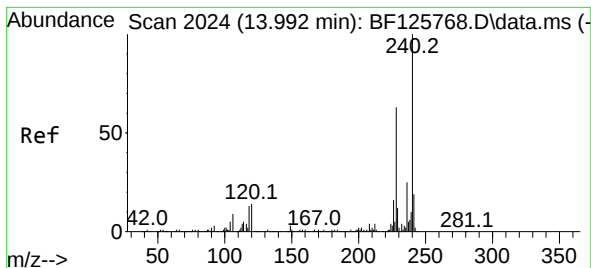
Ion Ratio Lower Upper

202 100

101 12.7 0.0 30.7

203 17.8 0.0 36.3





#76

Chrysene-d12

Concen: 20.000 ng

RT: 13.986 min Scan# 2023

Delta R.T. -0.000 min

Lab File: BF125869.D

Acq: 15 Oct 2021 18:38

Tgt Ion:240 Resp: 437360

Ion Ratio Lower Upper

240 100

120 13.1 10.8 16.2

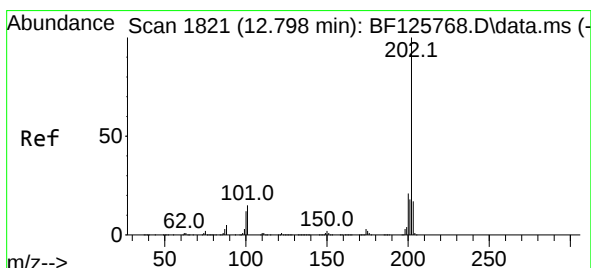
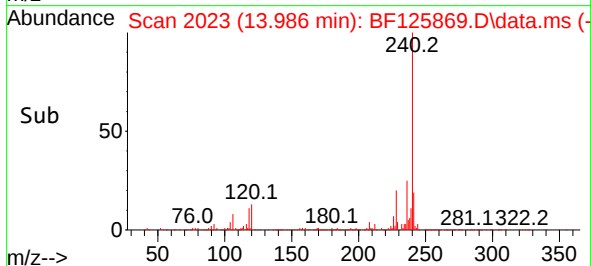
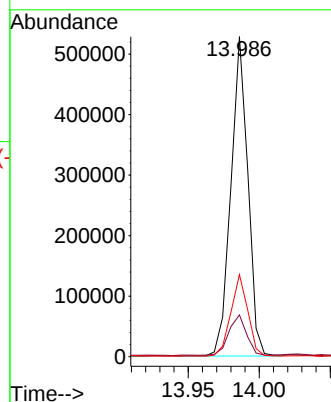
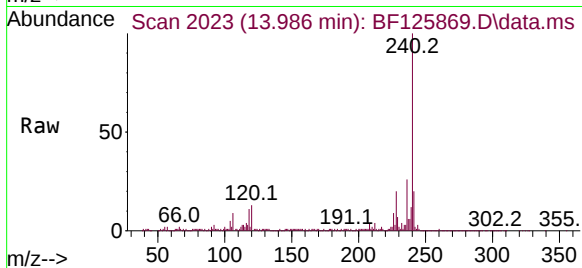
236 25.7 21.6 32.4

Instrument :

BNA_F

ClientSampleId :

HAR-SOILPILE DL



#78

Pyrene

Concen: 29.878 ng

RT: 12.792 min Scan# 1820

Delta R.T. -0.000 min

Lab File: BF125869.D

Acq: 15 Oct 2021 18:38

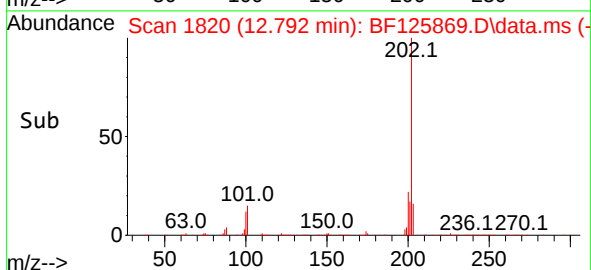
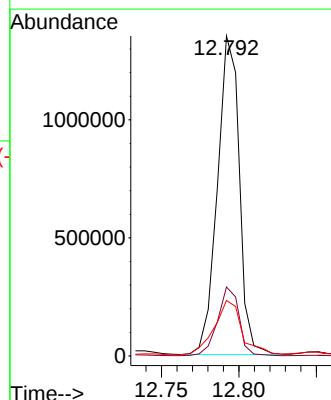
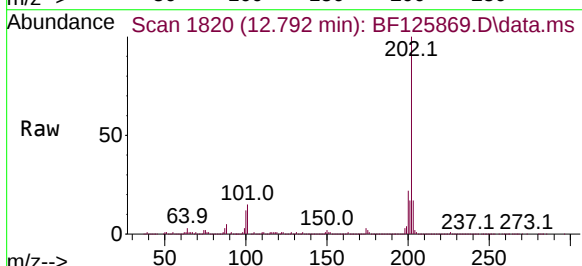
Tgt Ion:202 Resp: 1327550

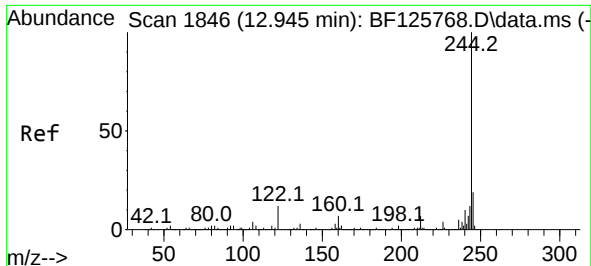
Ion Ratio Lower Upper

202 100

200 21.6 15.3 22.9

203 17.4 13.4 20.0

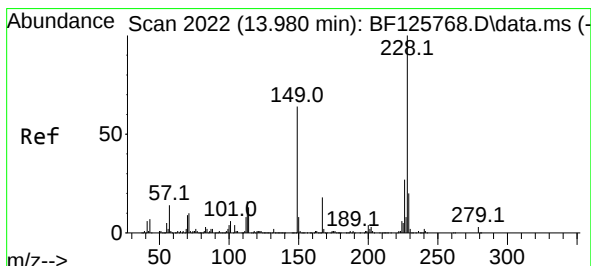
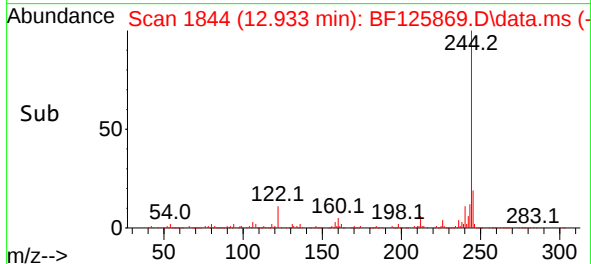
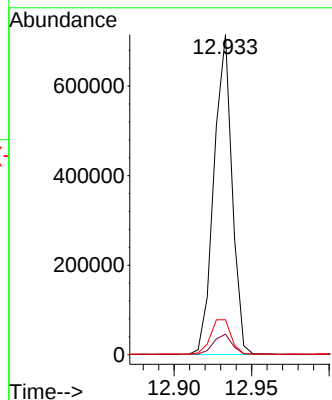
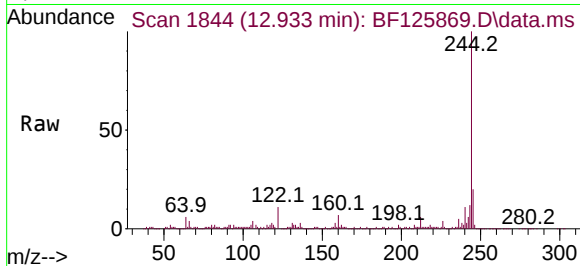




#79
Terphenyl-d14
Concen: 20.261 ng
RT: 12.933 min Scan# 1844
Delta R.T. -0.000 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

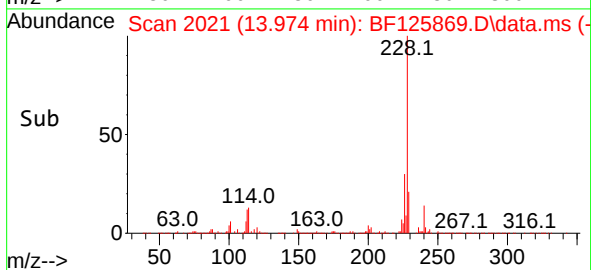
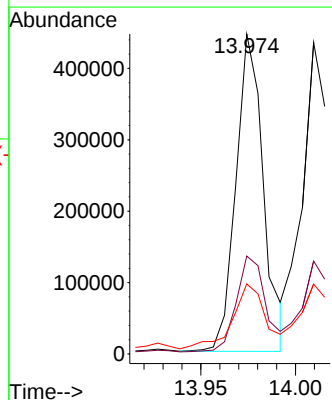
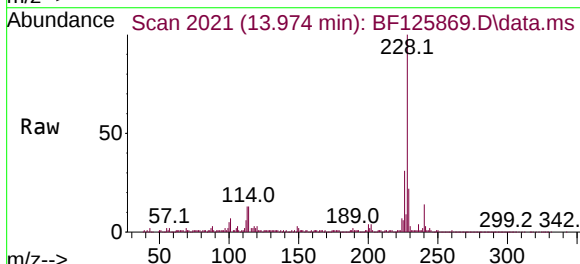
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE DL

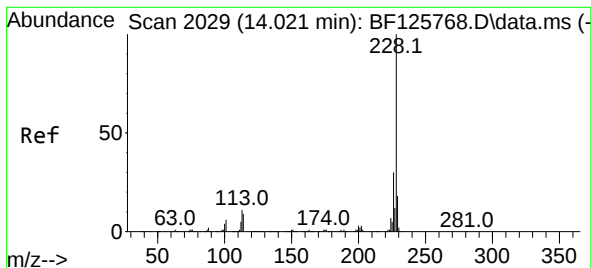
Tgt Ion:244 Resp: 581740
Ion Ratio Lower Upper
244 100
212 6.4 5.9 8.9
122 10.9 9.0 13.4



#81
Benzo(a)anthracene
Concen: 15.773 ng
RT: 13.974 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

Tgt Ion:228 Resp: 447563
Ion Ratio Lower Upper
228 100
226 30.6 21.6 32.4
229 21.9 15.6 23.4





#83

Chrysene

Concen: 14.889 ng

RT: 14.010 min Scan# 2027

Delta R.T. -0.000 min

Lab File: BF125869.D

Acq: 15 Oct 2021 18:38

Tgt Ion:228 Resp: 417576

Ion Ratio Lower Upper

228 100

226 29.8 22.6 34.0

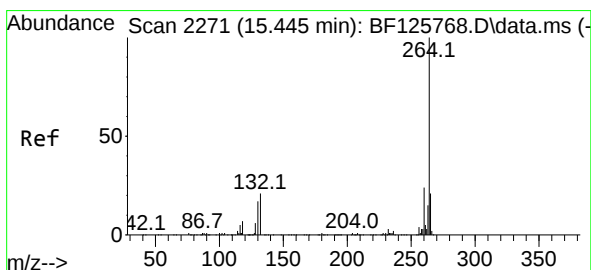
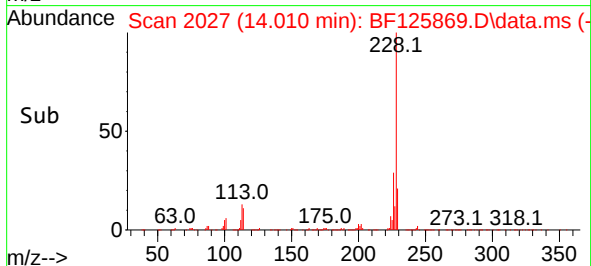
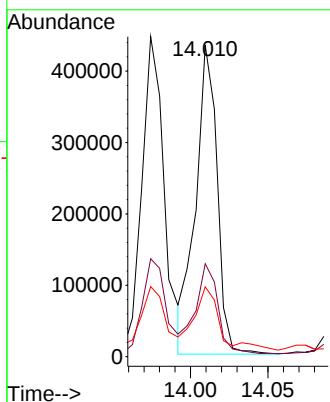
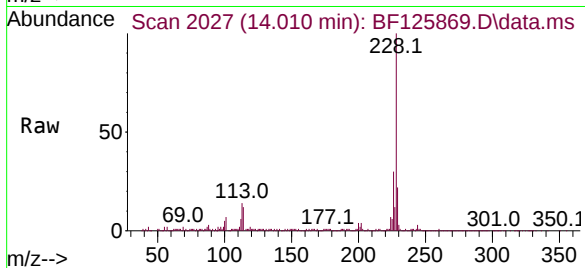
229 22.4 15.9 23.9

Instrument :

BNA_F

ClientSampleId :

HAR-SOILPILE DL



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.439 min Scan# 2270

Delta R.T. 0.006 min

Lab File: BF125869.D

Acq: 15 Oct 2021 18:38

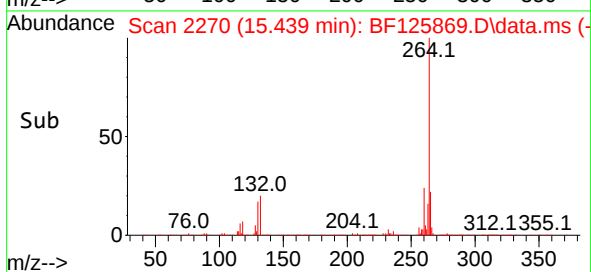
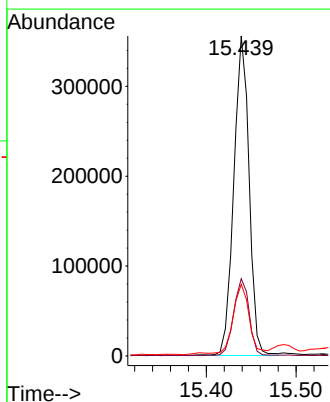
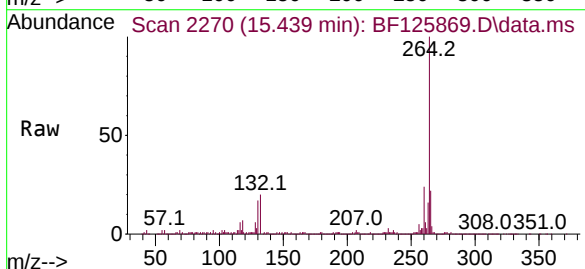
Tgt Ion:264 Resp: 420669

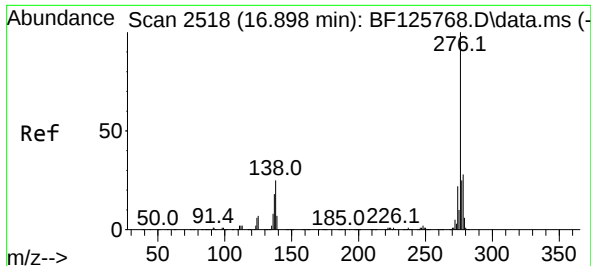
Ion Ratio Lower Upper

264 100

260 24.1 19.6 29.4

265 22.4 17.2 25.8

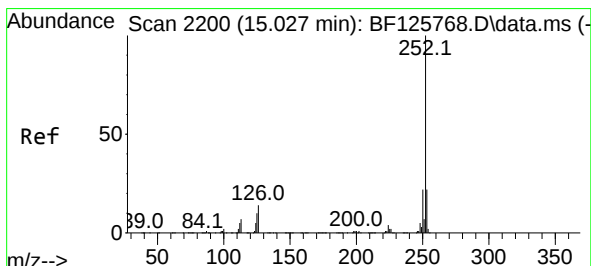
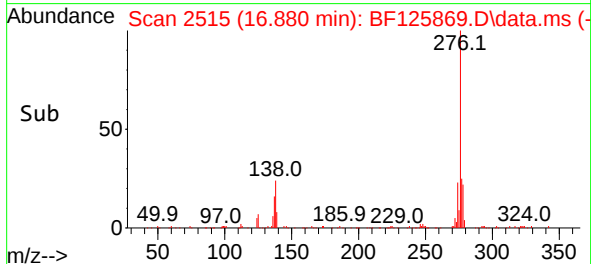
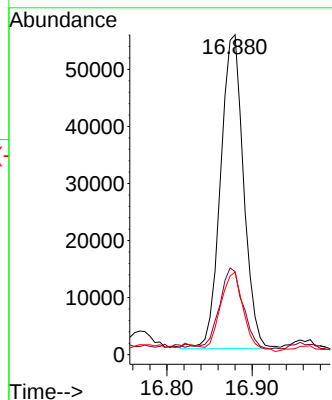
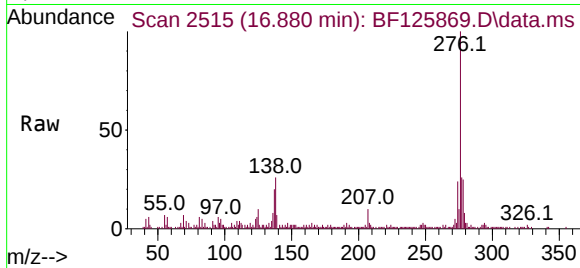




#87
Indeno(1,2,3-cd)pyrene
Concen: 3.216 ng
RT: 16.880 min Scan# 2515
Delta R.T. -0.000 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

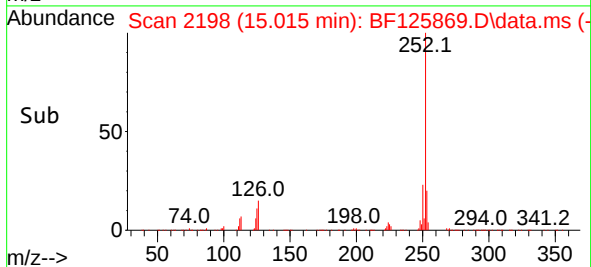
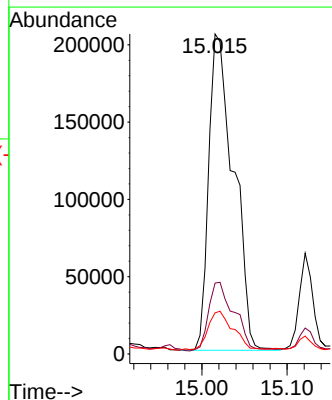
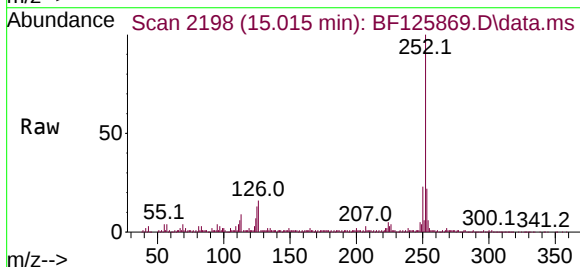
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE DL

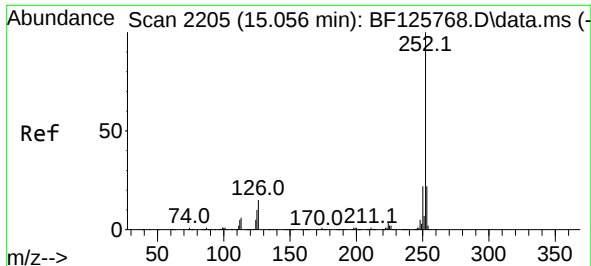
Tgt Ion:276 Resp: 103256
Ion Ratio Lower Upper
276 100
138 26.3 24.1 36.1
277 25.1 18.8 28.2



#88
Benzo(b)fluoranthene
Concen: 17.488 ng
RT: 15.015 min Scan# 2198
Delta R.T. -0.000 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

Tgt Ion:252 Resp: 415323
Ion Ratio Lower Upper
252 100
253 22.2 16.8 25.2
125 12.8 9.8 14.8

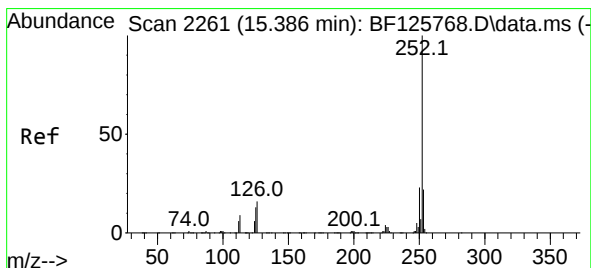
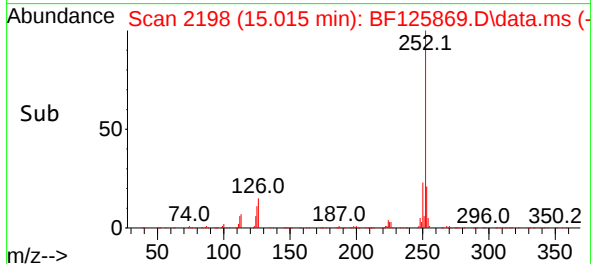
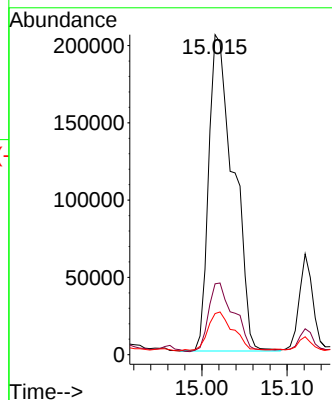
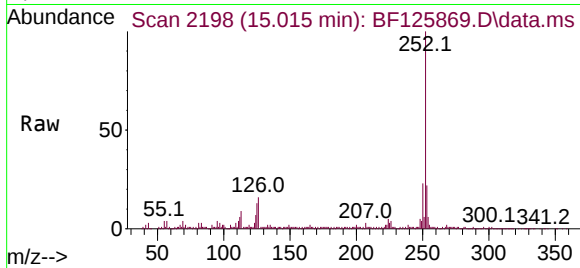




#89
Benzo(k)fluoranthene
Concen: 17.033 ng
RT: 15.015 min Scan# 2198
Delta R.T. -0.030 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

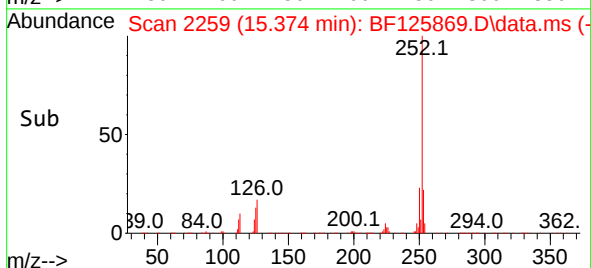
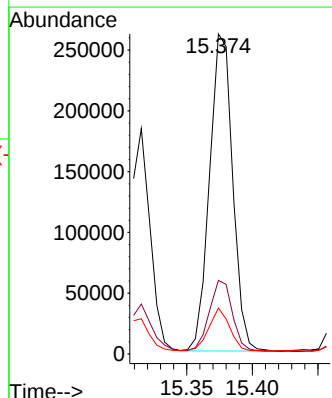
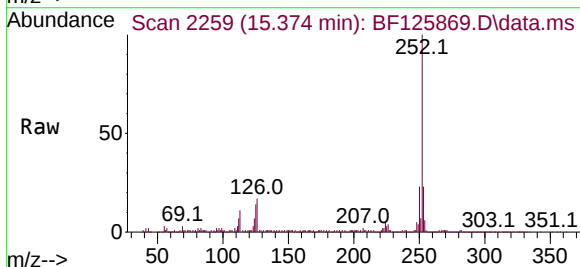
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILE DL

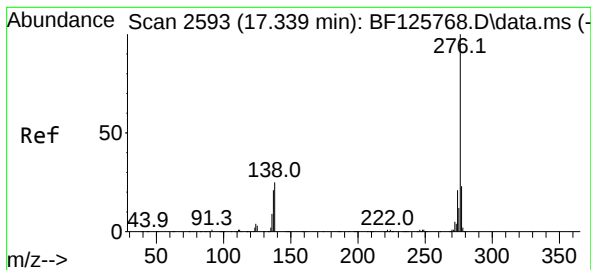
Tgt Ion:252 Resp: 415323
Ion Ratio Lower Upper
252 100
253 22.2 17.8 26.8
125 12.8 7.2 10.8#



#90
Benzo(a)pyrene
Concen: 15.213 ng
RT: 15.374 min Scan# 2259
Delta R.T. -0.000 min
Lab File: BF125869.D
Acq: 15 Oct 2021 18:38

Tgt Ion:252 Resp: 319951
Ion Ratio Lower Upper
252 100
253 23.0 18.4 27.6
125 14.3 9.9 14.9





#92
 Benzo(g,h,i)perylene
 Concen: 4.110 ng
 RT: 17.309 min Scan# 2588
 Delta R.T. -0.012 min
 Lab File: BF125869.D
 Acq: 15 Oct 2021 18:38

Instrument :
 BNA_F
 ClientSampleId :
 HAR-SOILPILE DL

Tgt Ion:	276	Resp:	111167
Ion Ratio	Lower	Upper	
276	100		
277	26.1	22.0	33.0
138	26.2	22.2	33.4

