

Data Path : Z:\svoasrv\HPCHEM1\BNA_F\Data\BF101821\
 Data File : BF125873.D
 Acq On : 18 Oct 2021 13:03
 Operator : JU/CG
 Sample : M4195-01DL 5X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_F
 ClientSampleId :
 HAR-SOILPILEDL

Quant Time: Oct 18 14:03:33 2021
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF100721.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 18 12:43:03 2021
 Response via : Initial Calibration

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

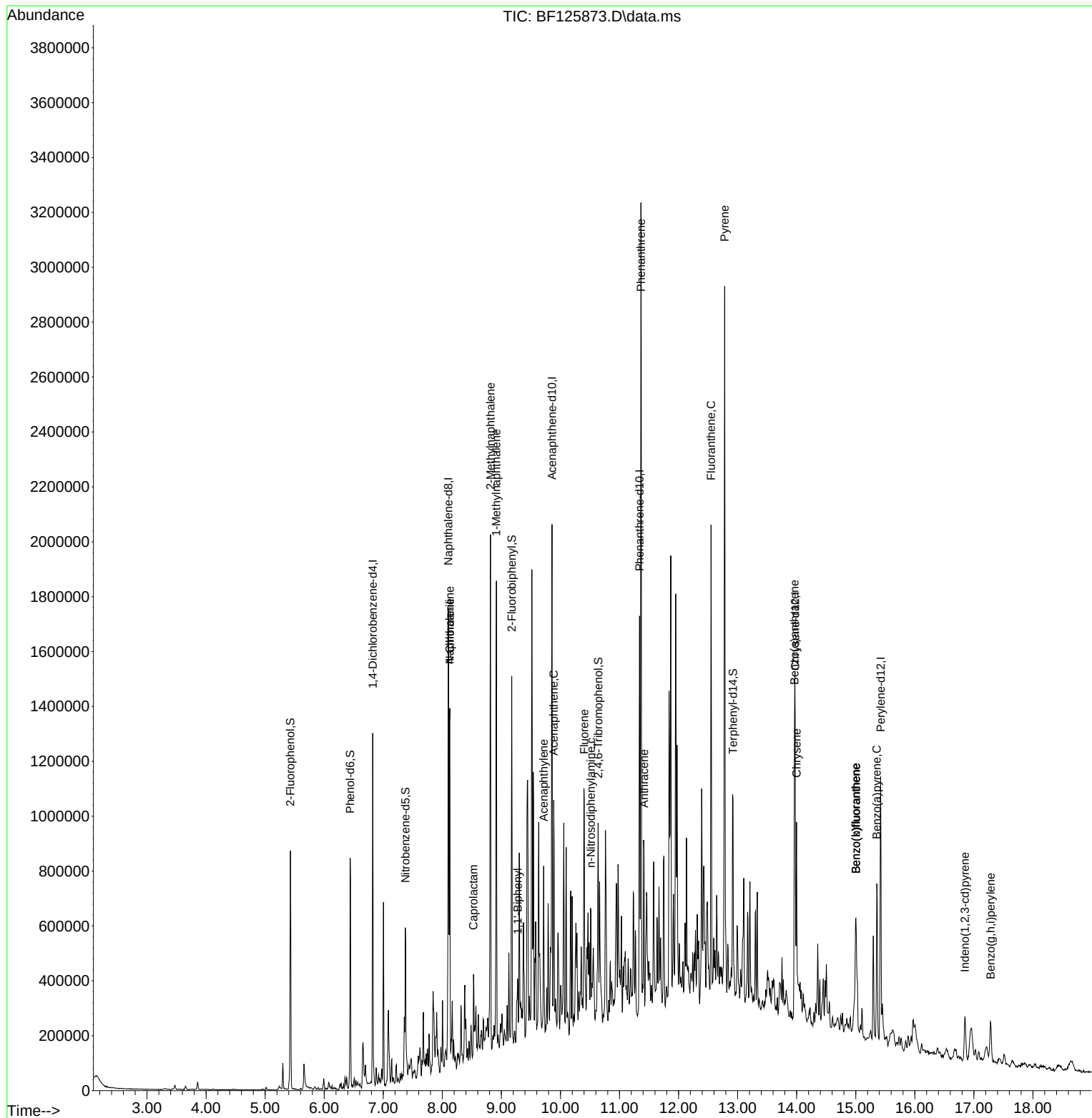
Internal Standards						
1) 1,4-Dichlorobenzene-d4	6.822	152	177699	20.000	ng	0.00
21) Naphthalene-d8	8.104	136	701286	20.000	ng	# 0.00
39) Acenaphthene-d10	9.857	164	360975	20.000	ng	0.00
64) Phenanthrene-d10	11.339	188	537366	20.000	ng	0.00
76) Chrysene-d12	13.974	240	334420	20.000	ng	0.00
86) Perylene-d12	15.421	264	399766	20.000	ng	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	5.428	112	241223	22.176	ng	-0.01
7) Phenol-d6	6.439	99	297619	21.254	ng	-0.02
23) Nitrobenzene-d5	7.375	82	170076	15.075	ng	-0.02
42) 2,4,6-Tribromophenol	10.639	330	62744	17.605	ng	0.00
45) 2-Fluorobiphenyl	9.175	172	354915	16.959	ng	0.00
79) Terphenyl-d14	12.921	244	243423	11.088	ng	0.00
Target Compounds						Qvalue
31) Naphthalene	8.128	128	581014	17.135	ng	98
33) 4-Chloroaniline	8.128	127	78302	5.518	ng	# 34
35) Caprolactam	8.528	113	7726	2.696	ng	# 83
37) 2-Methylnaphthalene	8.816	142	443833	20.211	ng	99
38) 1-Methylnaphthalene	8.916	142	434881	20.408	ng	97
46) 1,1'-Biphenyl	9.275	154	56491	2.129	ng	98
49) Acenaphthylene	9.716	152	98456	3.120	ng	# 88
52) Acenaphthene	9.886	154	126856	6.434	ng	95
58) Fluorene	10.404	166	218376	10.095	ng	100
66) n-Nitrosodiphenylamine	10.516	169	42269	2.306	ng	# 85
71) Phenanthrene	11.363	178	1113357	38.724	ng	98
72) Anthracene	11.416	178	248675	8.660	ng	100
75) Fluoranthene	12.551	202	545498	21.027	ng	95
78) Pyrene	12.780	202	1026052	30.200	ng	97
81) Benzo(a)anthracene	13.962	228	276919	12.763	ng	95
83) Chrysene	13.998	228	247381	11.535	ng	97
87) Indeno(1,2,3-cd)pyrene	16.851	276	100338	3.289	ng	94
88) Benzo(b)fluoranthene	15.004	252	300540	13.316	ng	97
89) Benzo(k)fluoranthene	15.004	252	300540	12.970	ng	# 96
90) Benzo(a)pyrene	15.356	252	274572	13.738	ng	98
92) Benzo(g,h,i)perylene	17.286	276	112737	4.386	ng	95

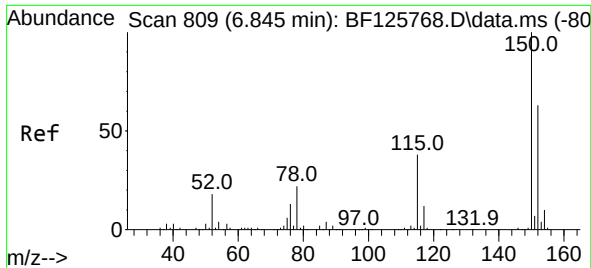
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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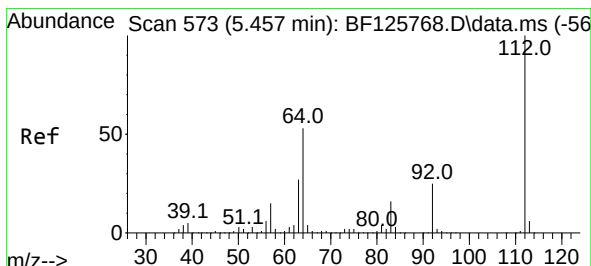
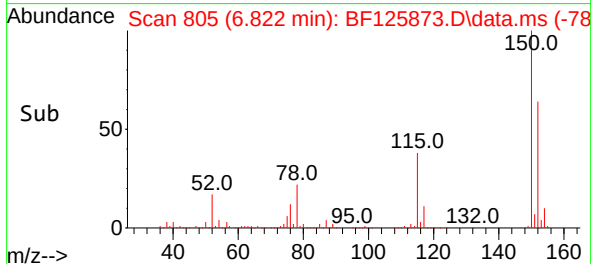
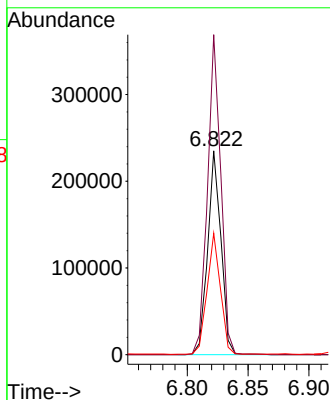
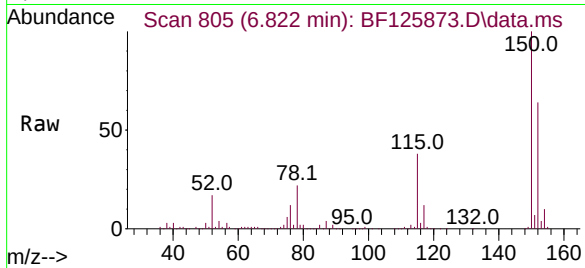




#1
1,4-Dichlorobenzene-d4
Concen: 20.000 ng
RT: 6.822 min Scan# 805
Delta R.T. -0.006 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

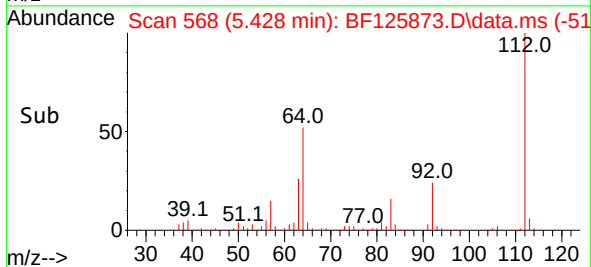
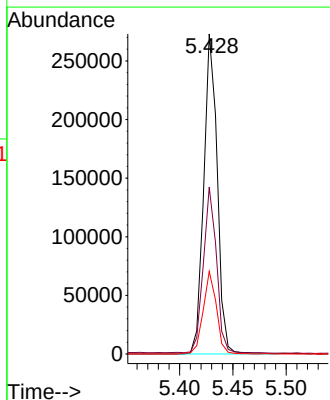
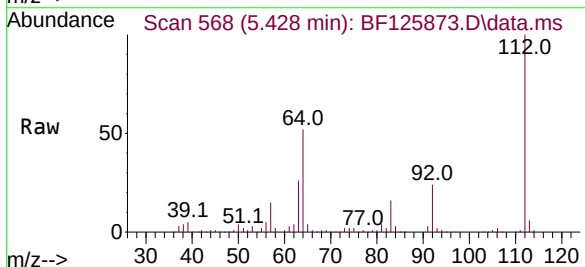
Instrument :
BNA_F
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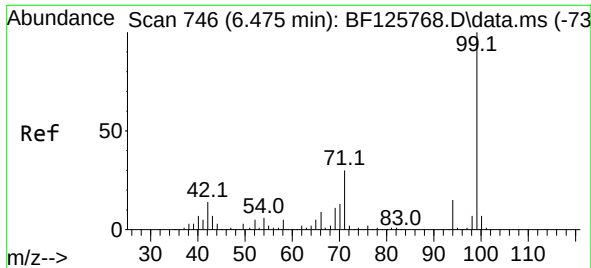
Tgt Ion:152 Resp: 177699
Ion Ratio Lower Upper
152 100
150 156.9 117.6 176.4
115 59.5 47.1 70.7



#5
2-Fluorophenol
Concen: 22.176 ng
RT: 5.428 min Scan# 568
Delta R.T. -0.012 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

Tgt Ion:112 Resp: 241223
Ion Ratio Lower Upper
112 100
64 52.2 44.2 66.2
63 25.8 26.2 39.2#

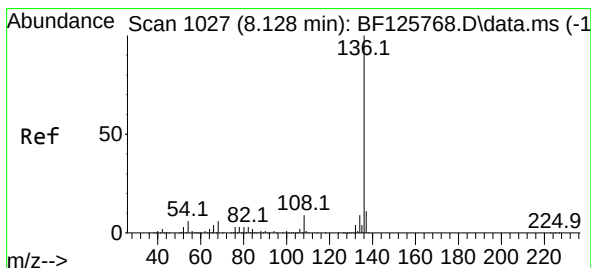
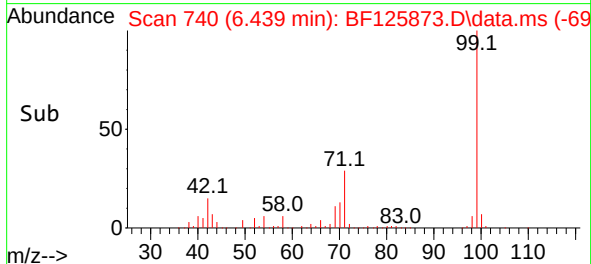
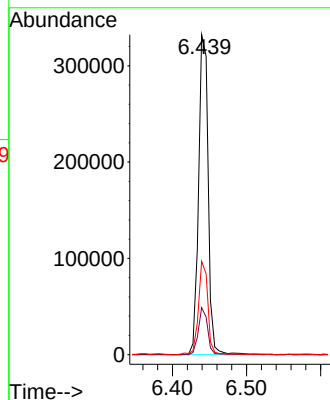
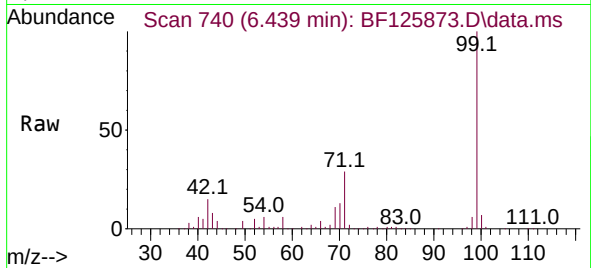




#7
Phenol-d6
Concen: 21.254 ng
RT: 6.439 min Scan# 740
Delta R.T. -0.018 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

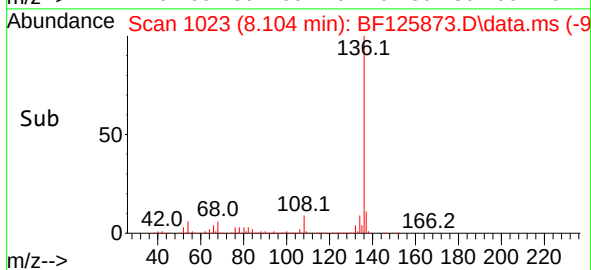
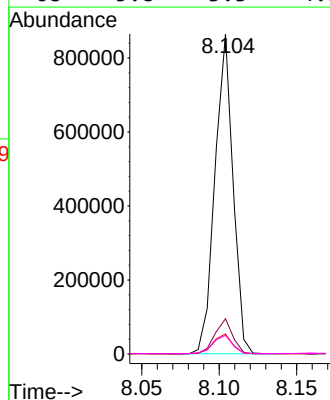
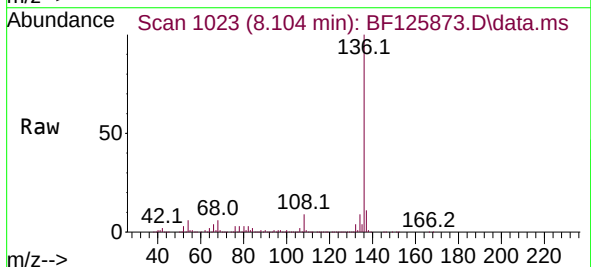
Instrument :
BNA_F
ClientSampleId :
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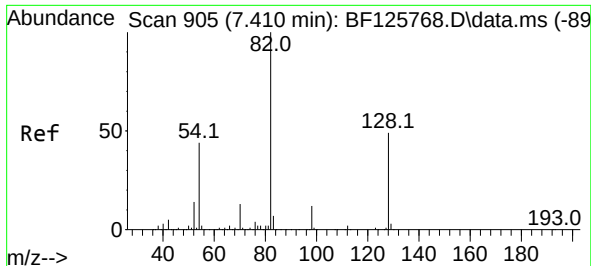
Tgt Ion: 99 Resp: 297619
Ion Ratio Lower Upper
99 100
42 14.7 23.5 35.3#
71 29.2 25.6 38.4



#21
Naphthalene-d8
Concen: 20.000 ng
RT: 8.104 min Scan# 1023
Delta R.T. -0.006 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

Tgt Ion: 136 Resp: 701286
Ion Ratio Lower Upper
136 100
137 11.0 9.8 14.6
54 6.3 6.4 9.6#
68 5.8 3.3 4.9#





#23

Nitrobenzene-d5

Concen: 15.075 ng

RT: 7.375 min Scan# 899

Delta R.T. -0.018 min

Lab File: BF125873.D

Acq: 18 Oct 2021 13:03

Instrument :

BNA_F

ClientSampleId :

HAR-SOILPILEDL

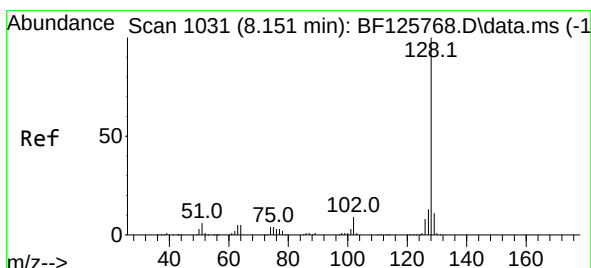
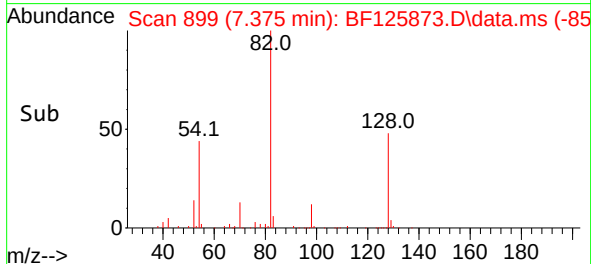
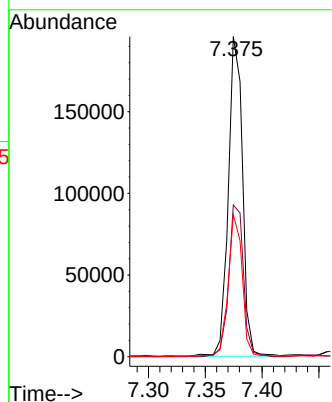
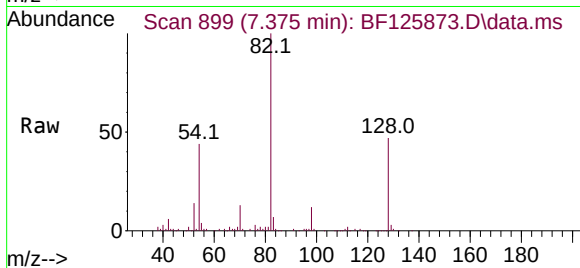
Tgt Ion: 82 Resp: 170076

Ion Ratio Lower Upper

82 100

128 47.4 40.6 60.8

54 44.4 49.6 74.4#



#31

Naphthalene

Concen: 17.135 ng

RT: 8.128 min Scan# 1027

Delta R.T. -0.000 min

Lab File: BF125873.D

Acq: 18 Oct 2021 13:03

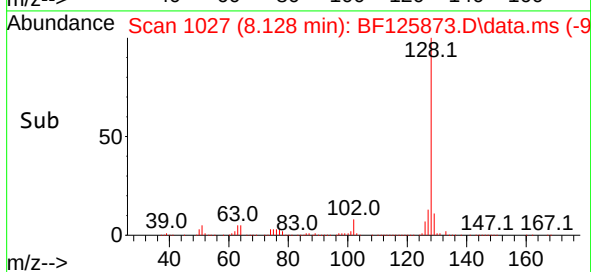
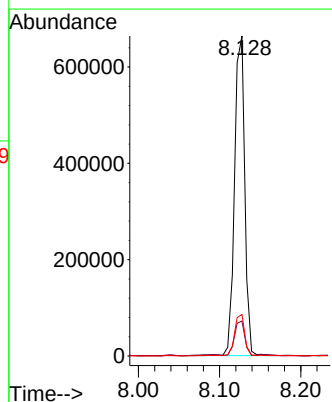
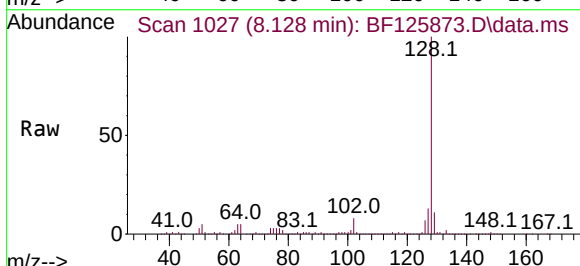
Tgt Ion:128 Resp: 581014

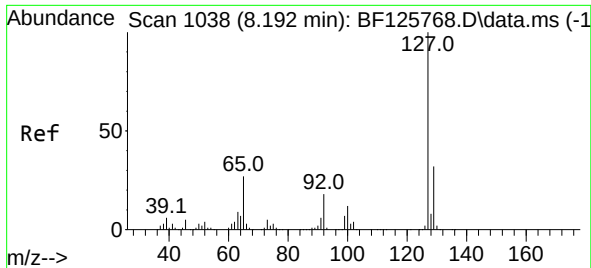
Ion Ratio Lower Upper

128 100

129 10.9 9.4 14.0

127 13.0 10.9 16.3

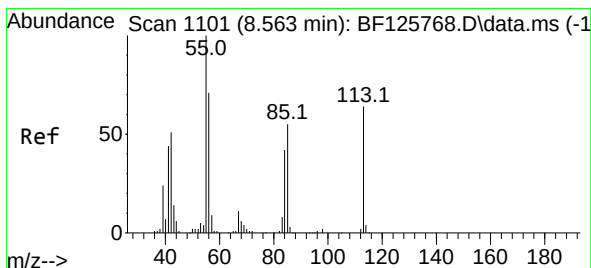
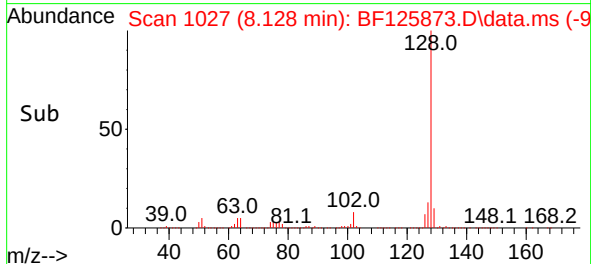
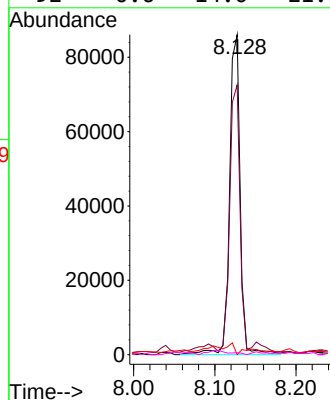
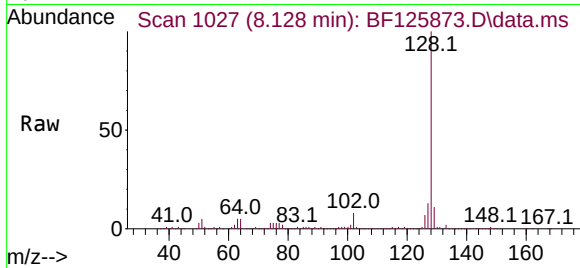




#33
4-Chloroaniline
Concen: 5.518 ng
RT: 8.128 min Scan# 1027
Delta R.T. -0.047 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

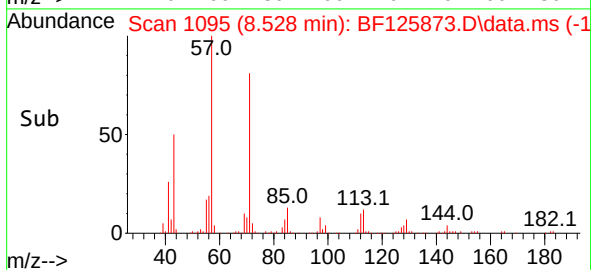
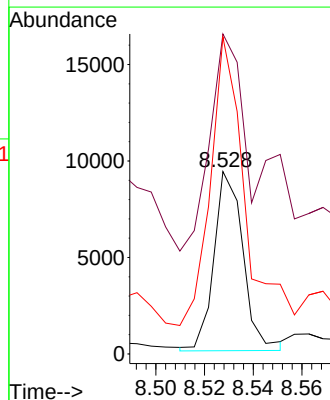
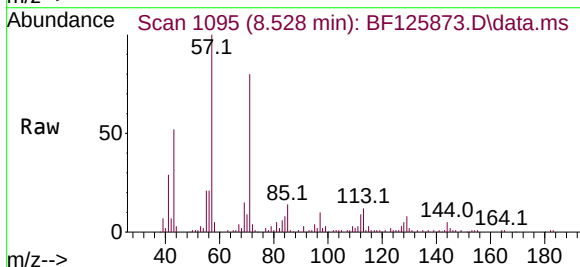
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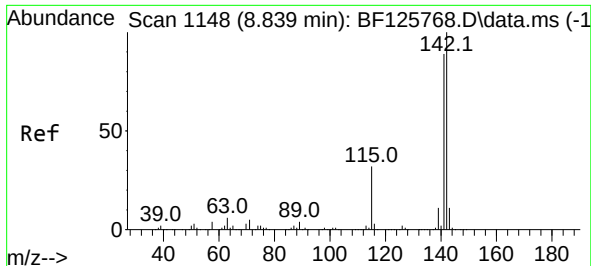
Tgt Ion:	127	Resp:	78302
Ion Ratio	Lower	Upper	
127	100		
129	84.3	25.7	38.5#
65	0.0	21.2	31.8#
92	0.6	14.0	21.0#



#35
Caprolactam
Concen: 2.696 ng
RT: 8.528 min Scan# 1095
Delta R.T. -0.018 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

Tgt Ion:	113	Resp:	7726
Ion Ratio	Lower	Upper	
113	100		
55	175.4	154.1	194.1
56	173.7	108.7	148.7#





#37

2-Methylnaphthalene

Concen: 20.211 ng

RT: 8.816 min Scan# 1144

Delta R.T. -0.006 min

Lab File: BF125873.D

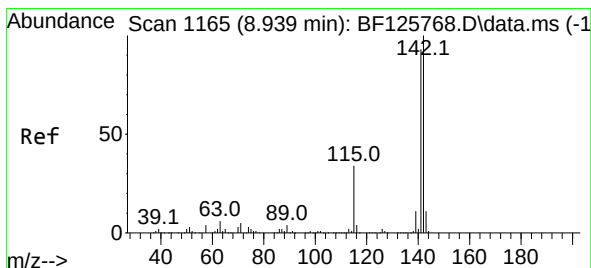
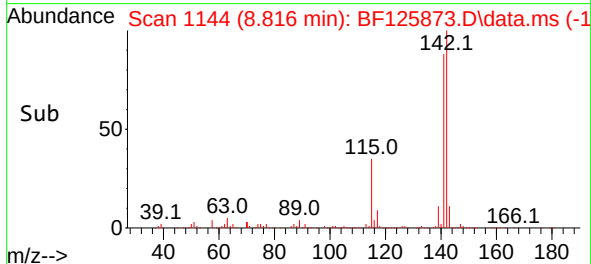
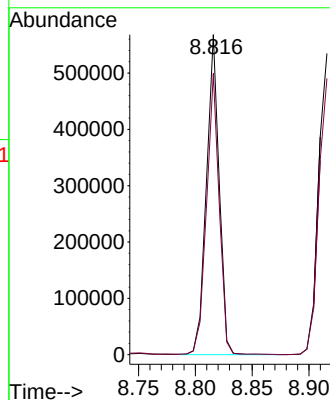
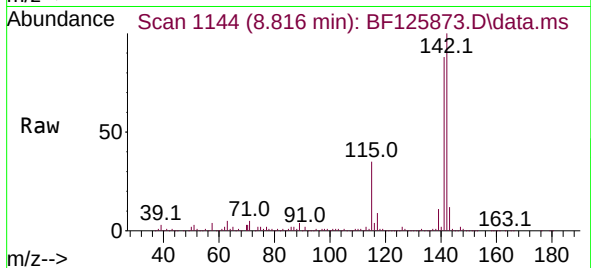
Acq: 18 Oct 2021 13:03

Tgt Ion:142 Resp: 443833

Ion Ratio Lower Upper

142 100

141 87.9 71.2 106.8



#38

1-Methylnaphthalene

Concen: 20.408 ng

RT: 8.916 min Scan# 1161

Delta R.T. -0.000 min

Lab File: BF125873.D

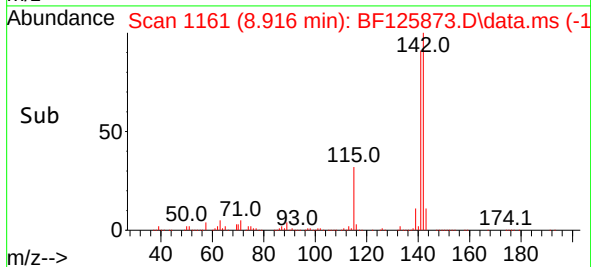
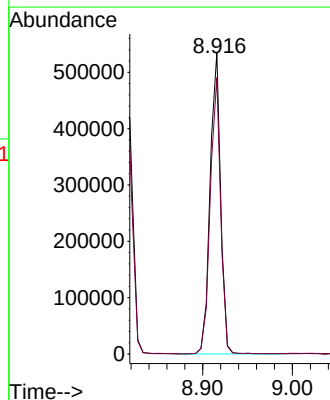
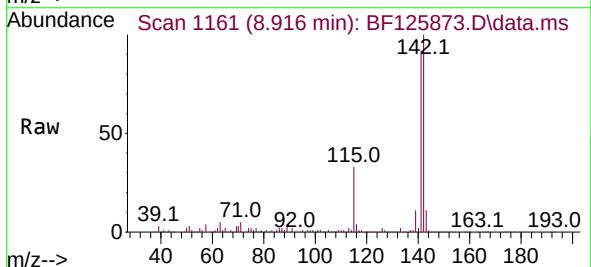
Acq: 18 Oct 2021 13:03

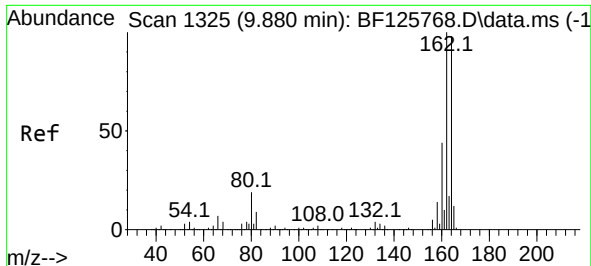
Tgt Ion:142 Resp: 434881

Ion Ratio Lower Upper

142 100

141 91.7 76.0 114.0

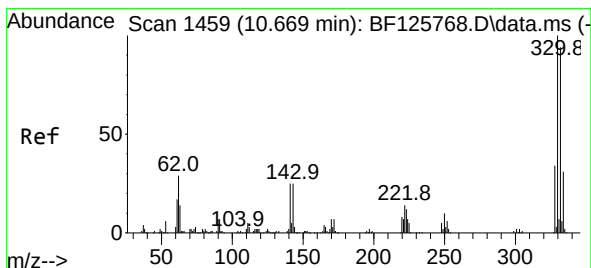
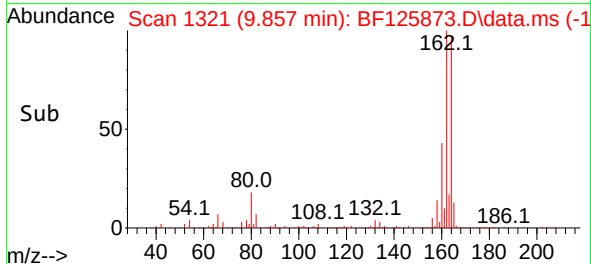
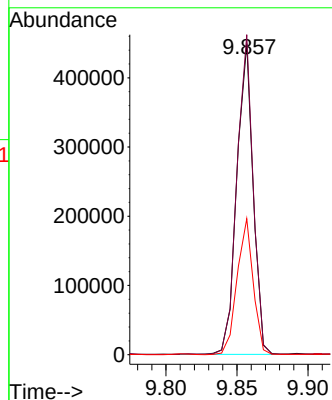
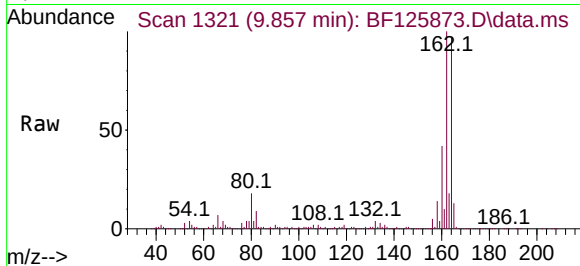




#39
Acenaphthene-d10
Concen: 20.000 ng
RT: 9.857 min Scan# 1321
Delta R.T. -0.006 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

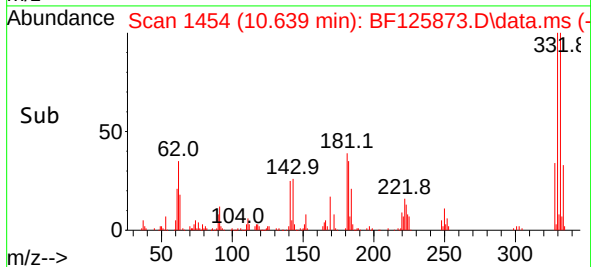
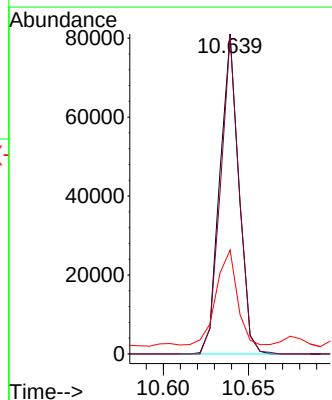
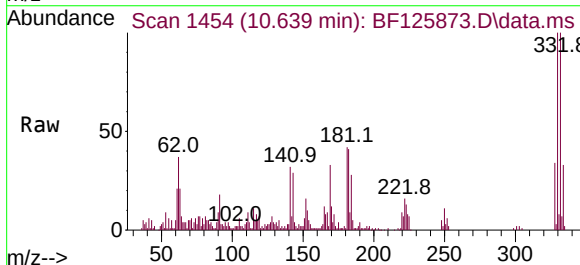
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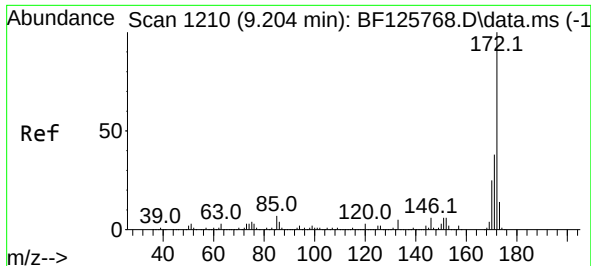
Tgt Ion:164 Resp: 360975
Ion Ratio Lower Upper
164 100
162 102.9 81.3 121.9
160 43.7 38.0 57.0



#42
2,4,6-Tribromophenol
Concen: 17.605 ng
RT: 10.639 min Scan# 1454
Delta R.T. -0.006 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

Tgt Ion:330 Resp: 62744
Ion Ratio Lower Upper
330 100
332 97.0 76.2 114.4
141 34.7 44.6 66.8#

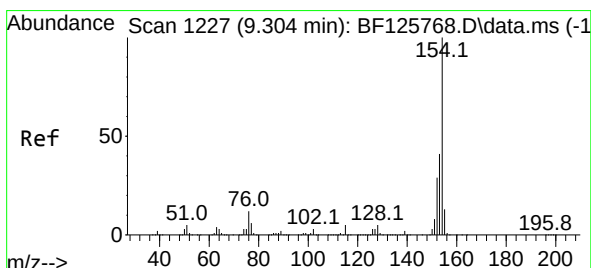
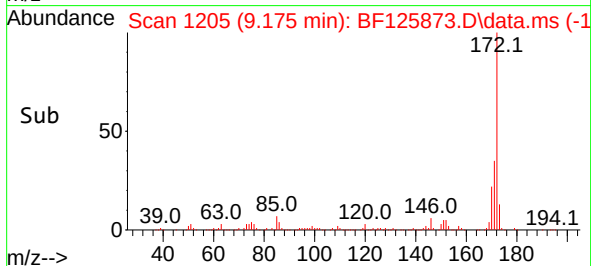
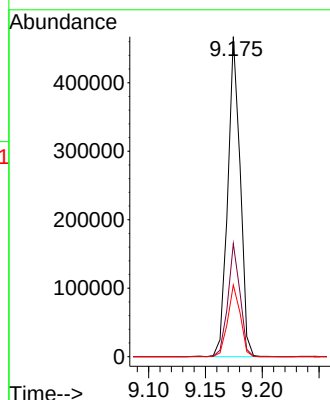
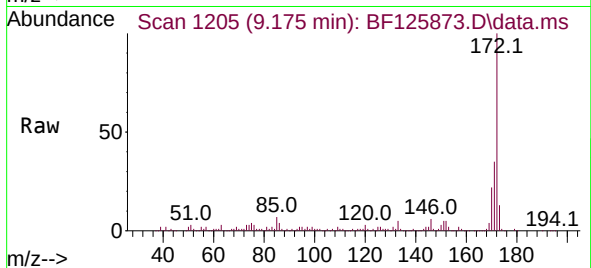




#45
2-Fluorobiphenyl
Concen: 16.959 ng
RT: 9.175 min Scan# 1205
Delta R.T. -0.006 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

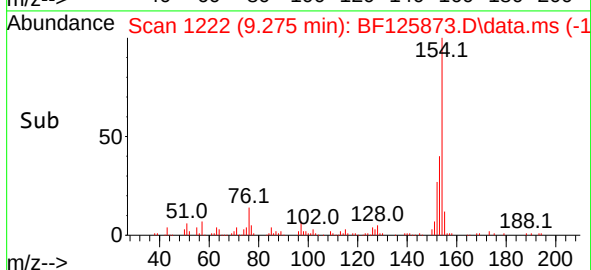
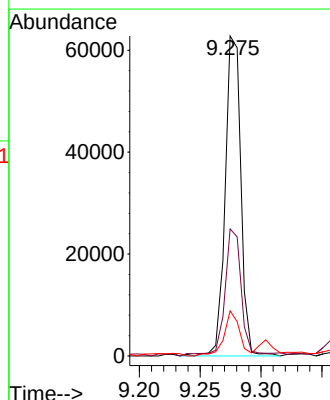
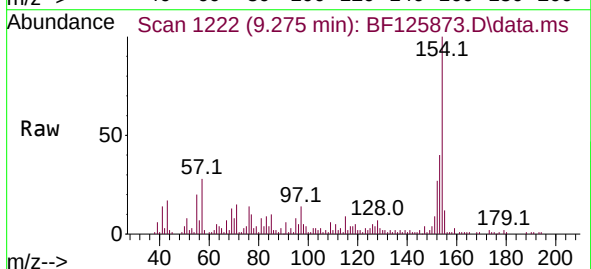
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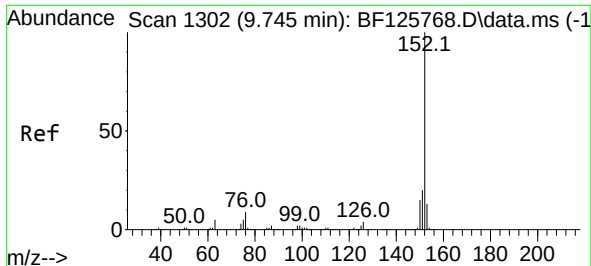
Tgt Ion:172 Resp: 354915
Ion Ratio Lower Upper
172 100
171 35.4 26.5 39.7
170 22.4 18.8 28.2



#46
1,1'-Biphenyl
Concen: 2.129 ng
RT: 9.275 min Scan# 1222
Delta R.T. -0.006 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

Tgt Ion:154 Resp: 56491
Ion Ratio Lower Upper
154 100
153 39.7 20.0 60.0
76 14.1 0.0 30.3





#49

Acenaphthylene

Concen: 3.120 ng

RT: 9.716 min Scan# 1297

Delta R.T. -0.006 min

Lab File: BF125873.D

Acq: 18 Oct 2021 13:03

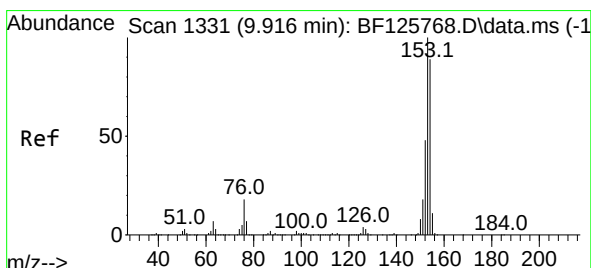
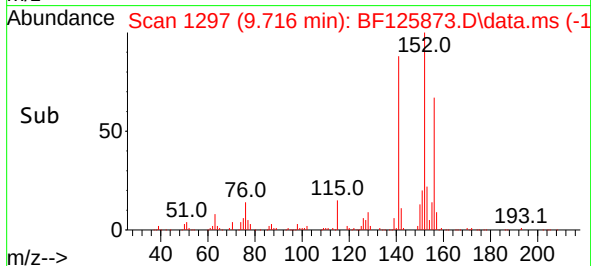
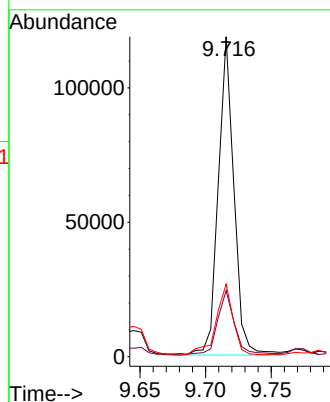
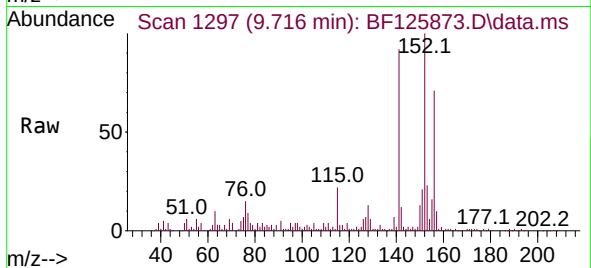
Tgt Ion:	152	Resp:	98456
Ion Ratio	Lower	Upper	
152	100		
151	20.6	15.7	23.5
153	22.7	9.8	14.8

Instrument :

BNA_F

ClientSampleId :

HAR-SOILPILEDL



#52

Acenaphthene

Concen: 6.434 ng

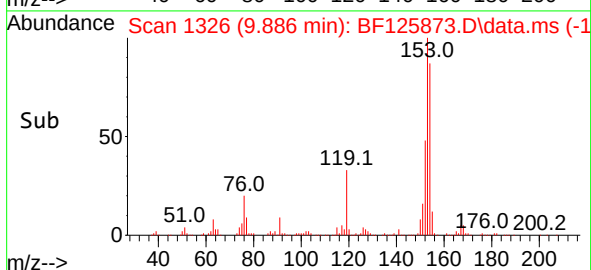
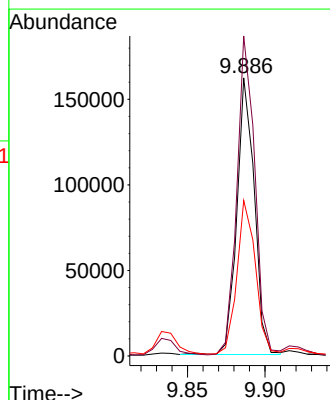
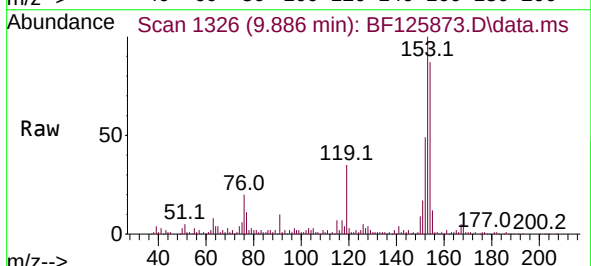
RT: 9.886 min Scan# 1326

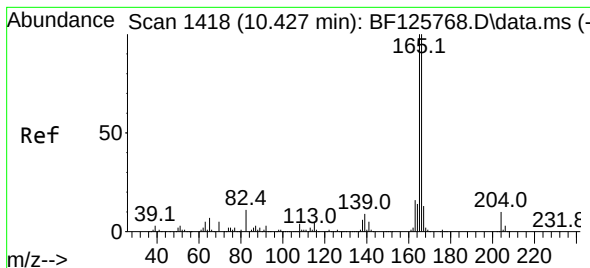
Delta R.T. -0.006 min

Lab File: BF125873.D

Acq: 18 Oct 2021 13:03

Tgt Ion:	154	Resp:	126856
Ion Ratio	Lower	Upper	
154	100		
153	115.1	89.4	134.2
152	55.9	40.5	60.7





#58

Fluorene

Concen: 10.095 ng

RT: 10.404 min Scan# 1414

Delta R.T. -0.006 min

Lab File: BF125873.D

Acq: 18 Oct 2021 13:03

Instrument :

BNA_F

ClientSampleId :

HAR-SOILPILEDL

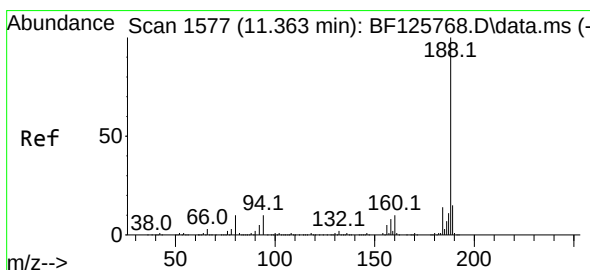
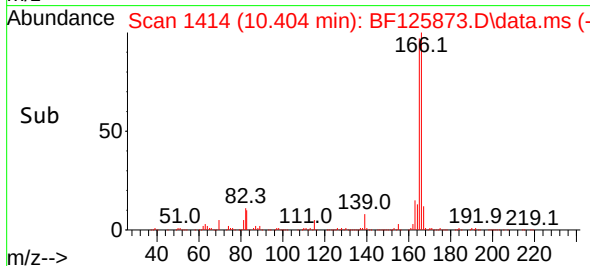
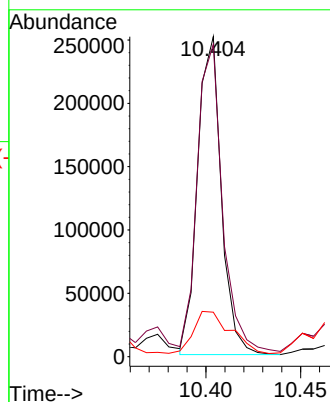
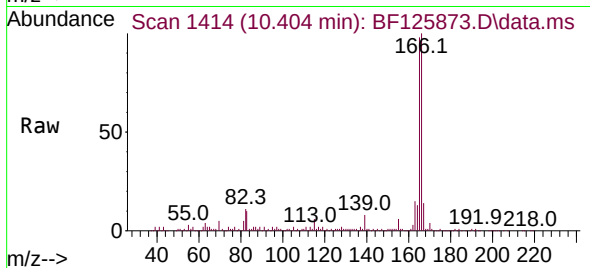
Tgt Ion:166 Resp: 218376

Ion Ratio Lower Upper

166 100

165 97.6 78.1 117.1

167 13.9 11.1 16.7



#64

Phenanthrene-d10

Concen: 20.000 ng

RT: 11.339 min Scan# 1573

Delta R.T. -0.000 min

Lab File: BF125873.D

Acq: 18 Oct 2021 13:03

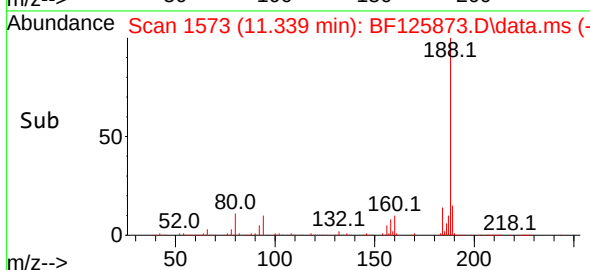
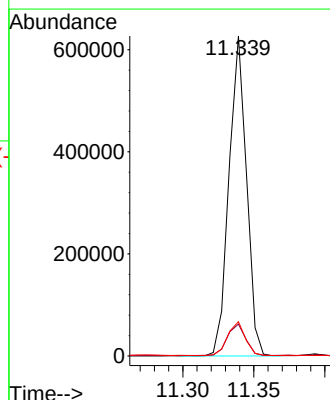
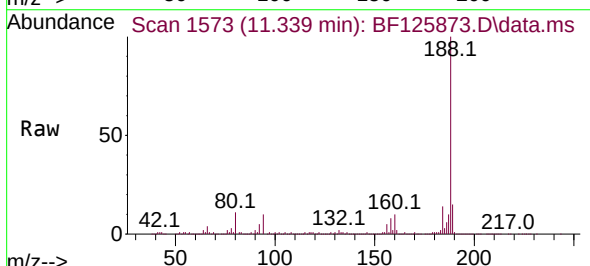
Tgt Ion:188 Resp: 537366

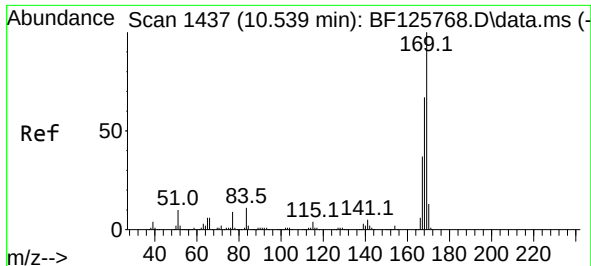
Ion Ratio Lower Upper

188 100

94 10.0 6.7 10.1

80 10.7 7.5 11.3

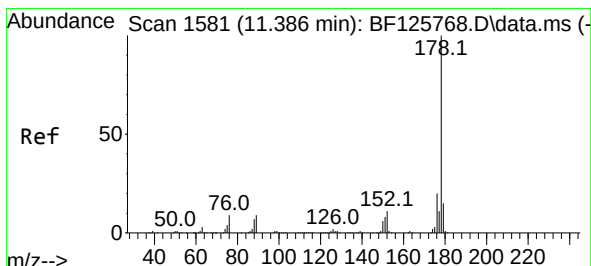
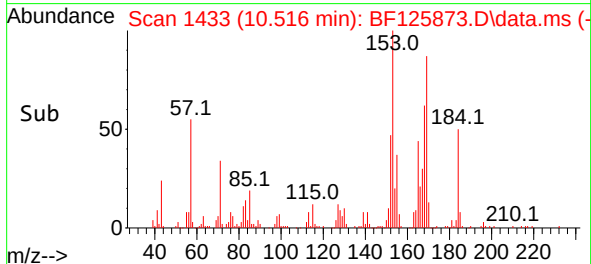
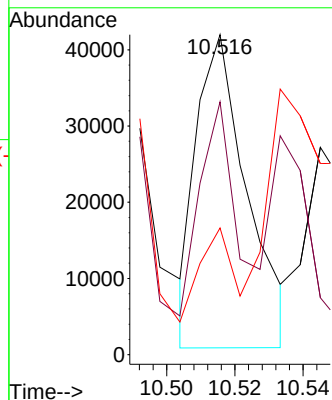
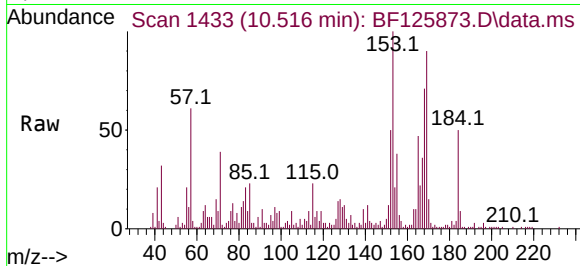




#66
n-Nitrosodiphenylamine
Concen: 2.306 ng
RT: 10.516 min Scan# 1433
Delta R.T. -0.000 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

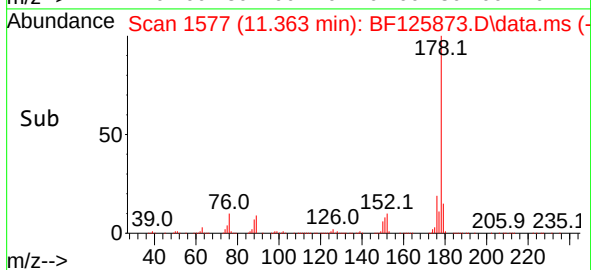
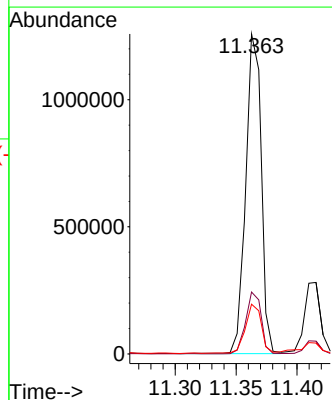
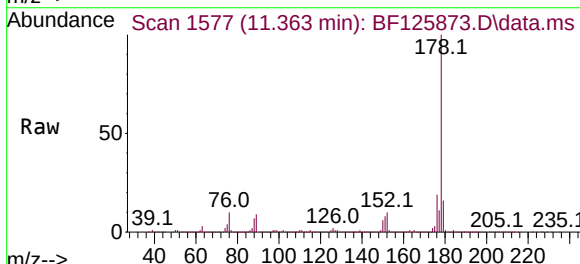
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILEDL

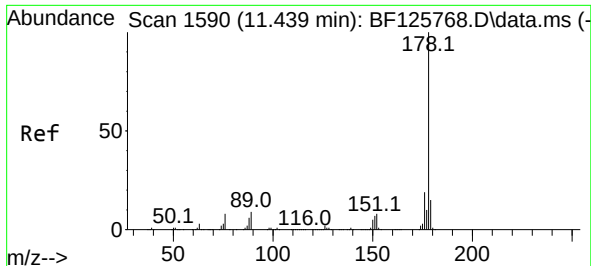
Tgt Ion:169 Resp: 42269
Ion Ratio Lower Upper
169 100
168 79.0 50.8 76.2#
167 39.6 28.8 43.2



#71
Phenanthrene
Concen: 38.724 ng
RT: 11.363 min Scan# 1577
Delta R.T. -0.006 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

Tgt Ion:178 Resp: 1113357
Ion Ratio Lower Upper
178 100
176 19.3 14.7 22.1
179 15.6 11.5 17.3

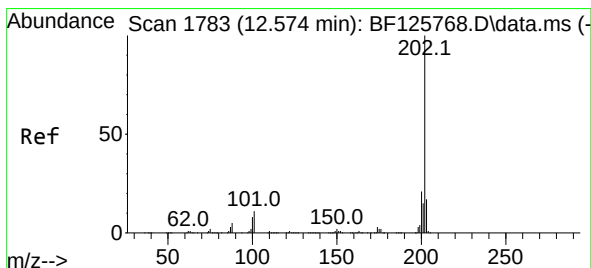
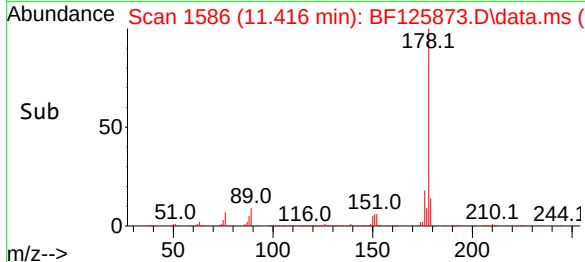
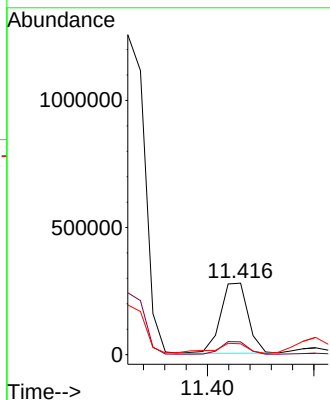
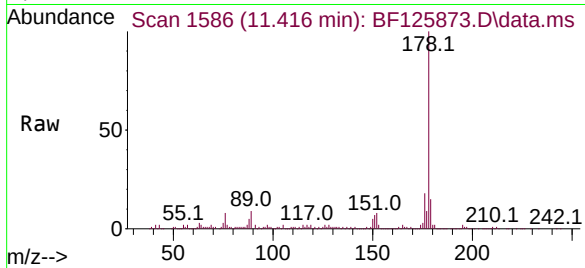




#72
 Anthracene
 Concen: 8.660 ng
 RT: 11.416 min Scan# 1586
 Delta R.T. -0.006 min
 Lab File: BF125873.D
 Acq: 18 Oct 2021 13:03

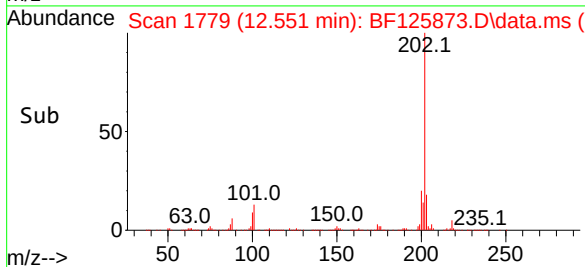
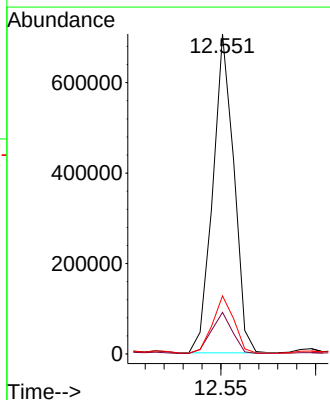
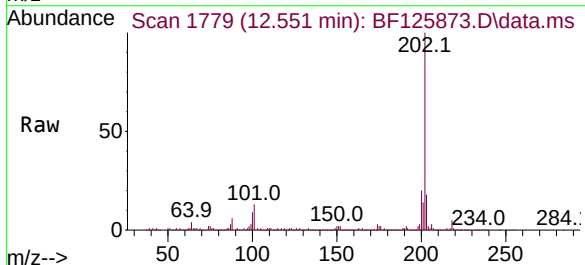
Instrument :
 BNA_F
 ClientSampleId :
 HAR-SOILPILEDL

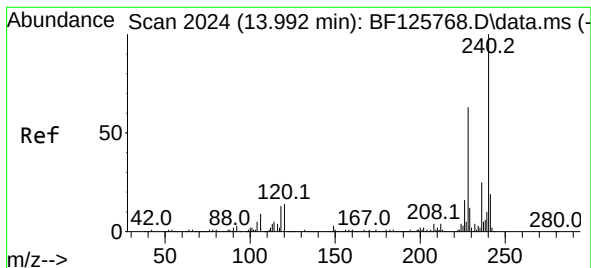
Tgt Ion:178 Resp: 248675
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.3 21.5
 179 15.2 12.2 18.4



#75
 Fluoranthene
 Concen: 21.027 ng
 RT: 12.551 min Scan# 1779
 Delta R.T. -0.000 min
 Lab File: BF125873.D
 Acq: 18 Oct 2021 13:03

Tgt Ion:202 Resp: 545498
 Ion Ratio Lower Upper
 202 100
 101 13.0 0.0 30.7
 203 18.2 0.0 36.3

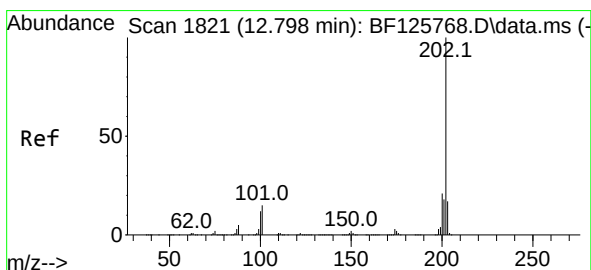
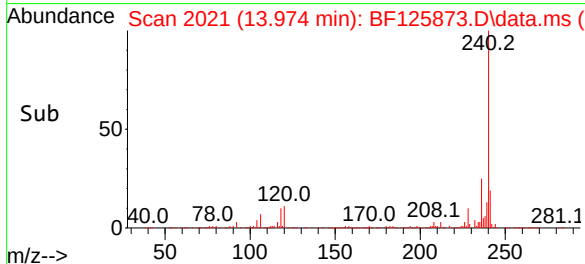
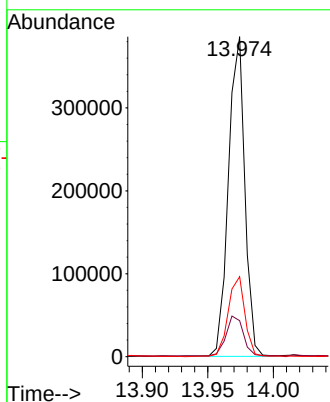
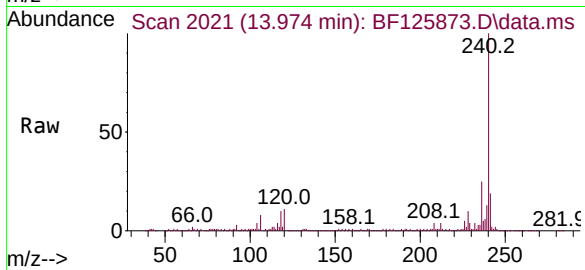




#76
Chrysene-d12
Concen: 20.000 ng
RT: 13.974 min Scan# 2021
Delta R.T. -0.000 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

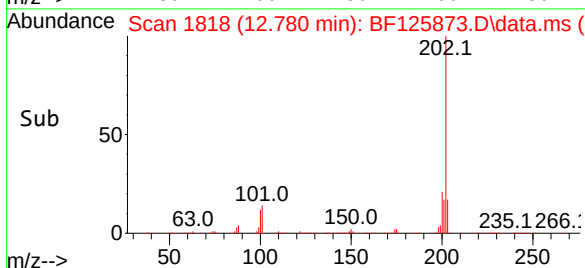
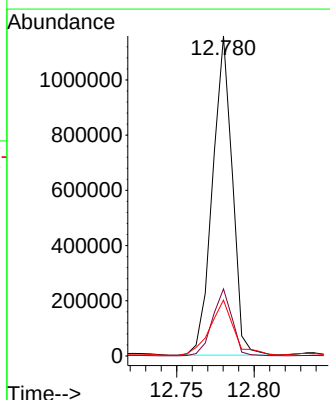
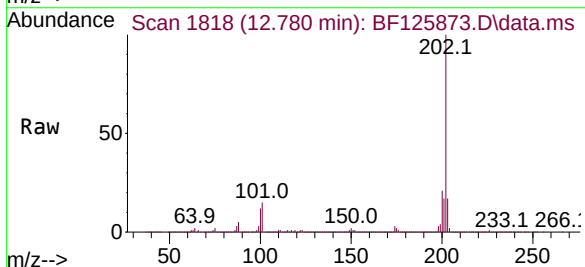
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILEDL

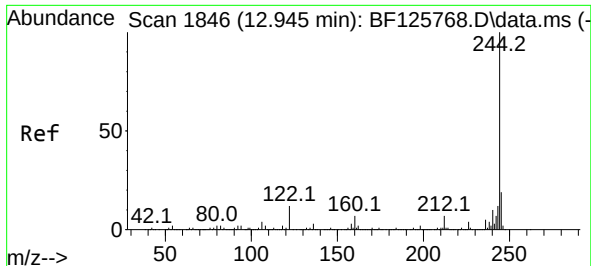
Tgt Ion:240 Resp: 334420
Ion Ratio Lower Upper
240 100
120 11.2 10.8 16.2
236 25.0 21.6 32.4



#78
Pyrene
Concen: 30.200 ng
RT: 12.780 min Scan# 1818
Delta R.T. -0.000 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

Tgt Ion:202 Resp: 1026052
Ion Ratio Lower Upper
202 100
200 20.9 15.3 22.9
203 17.4 13.4 20.0

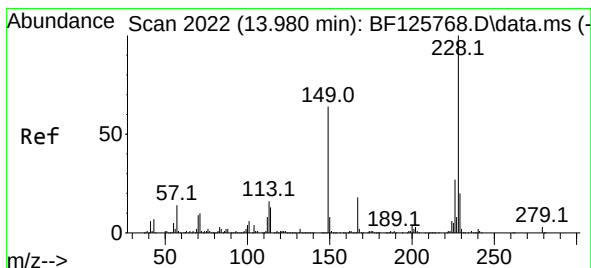
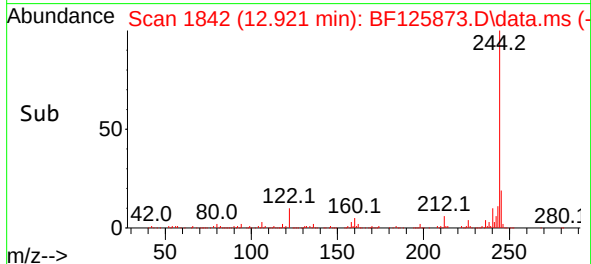
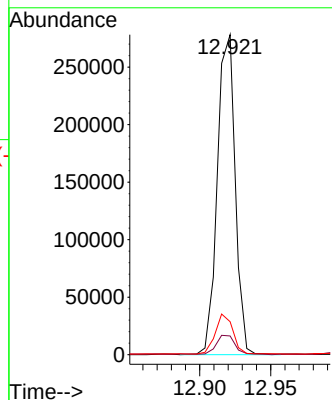
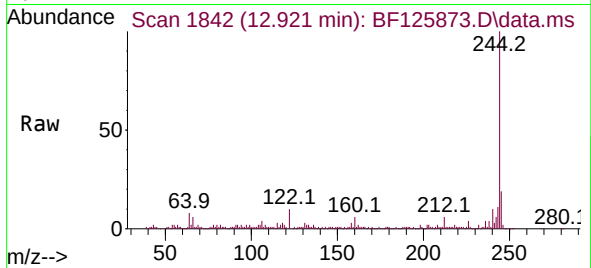




#79
 Terphenyl-d14
 Concen: 11.088 ng
 RT: 12.921 min Scan# 1842
 Delta R.T. -0.000 min
 Lab File: BF125873.D
 Acq: 18 Oct 2021 13:03

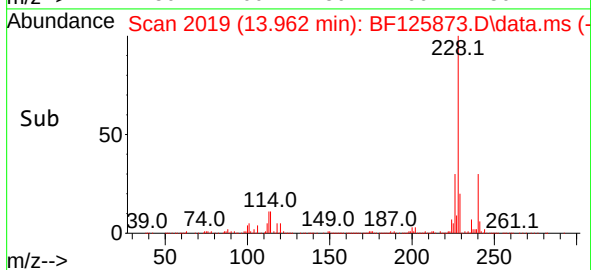
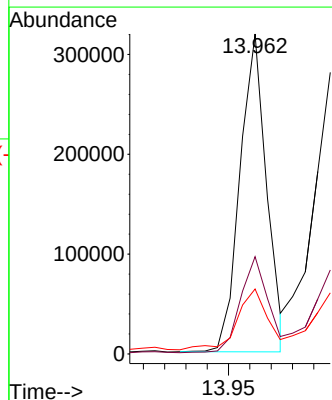
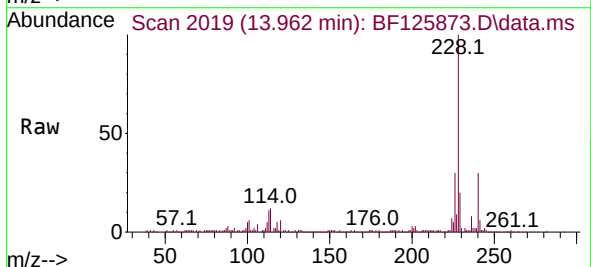
Instrument :
 BNA_F
 ClientSampleId :
 HAR-SOILPILEDL

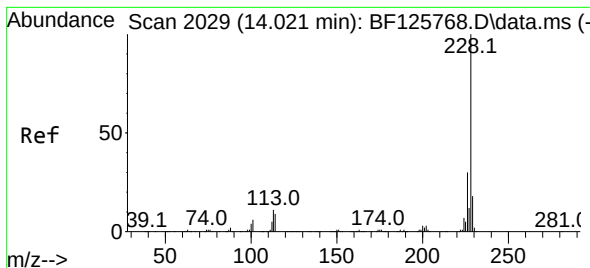
Tgt Ion:244 Resp: 243423
 Ion Ratio Lower Upper
 244 100
 212 5.8 5.9 8.9#
 122 10.3 9.0 13.4



#81
 Benzo(a)anthracene
 Concen: 12.763 ng
 RT: 13.962 min Scan# 2019
 Delta R.T. -0.000 min
 Lab File: BF125873.D
 Acq: 18 Oct 2021 13:03

Tgt Ion:228 Resp: 276919
 Ion Ratio Lower Upper
 228 100
 226 30.4 21.6 32.4
 229 20.3 15.6 23.4





#83

Chrysene

Concen: 11.535 ng

RT: 13.998 min Scan# 2025

Delta R.T. -0.006 min

Lab File: BF125873.D

Acq: 18 Oct 2021 13:03

Instrument :

BNA_F

ClientSampleId :

HAR-SOILPILEDL

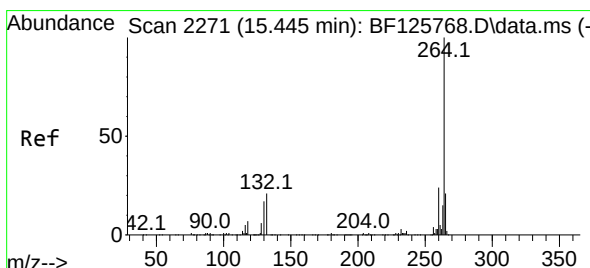
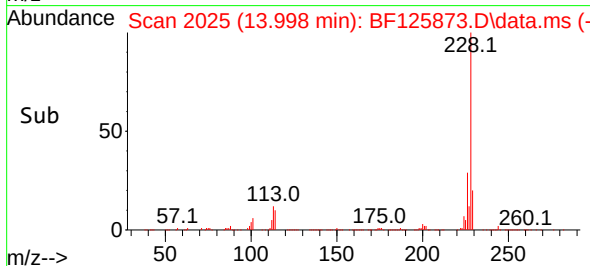
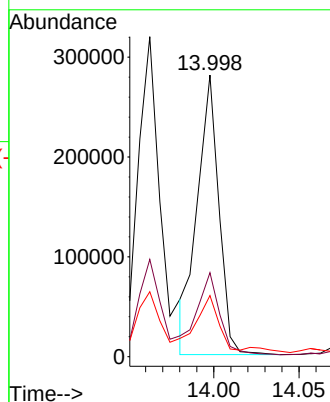
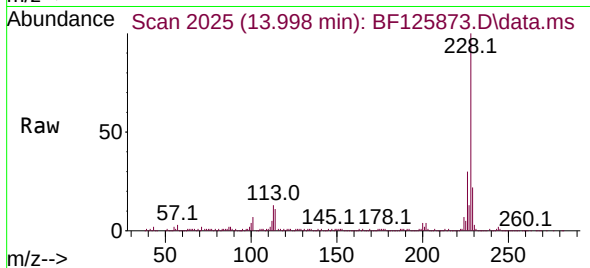
Tgt Ion:228 Resp: 247381

Ion Ratio Lower Upper

228 100

226 29.8 22.6 34.0

229 21.7 15.9 23.9



#86

Perylene-d12

Concen: 20.000 ng

RT: 15.421 min Scan# 2267

Delta R.T. -0.000 min

Lab File: BF125873.D

Acq: 18 Oct 2021 13:03

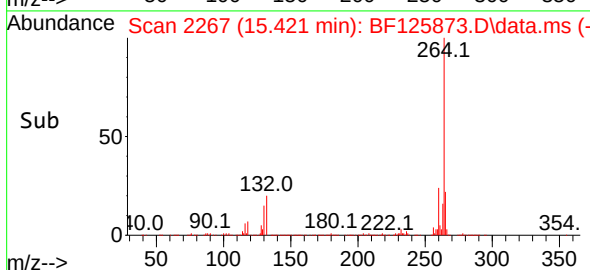
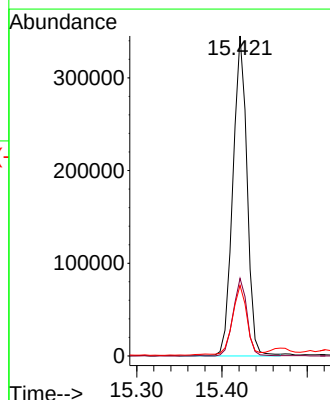
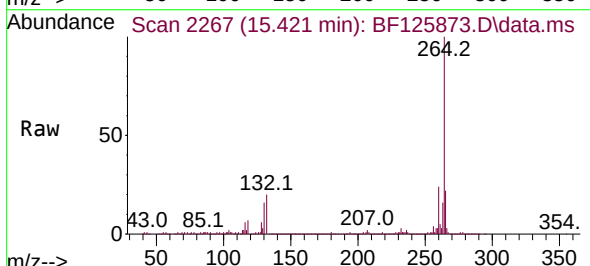
Tgt Ion:264 Resp: 399766

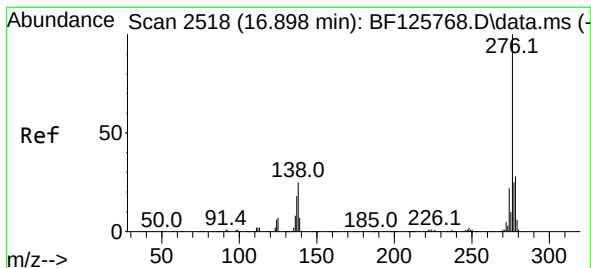
Ion Ratio Lower Upper

264 100

260 24.3 19.6 29.4

265 22.0 17.2 25.8





#87

Indeno(1,2,3-cd)pyrene

Concen: 3.289 ng

RT: 16.851 min Scan# 2510

Delta R.T. -0.012 min

Lab File: BF125873.D

Acq: 18 Oct 2021 13:03

Tgt Ion:276 Resp: 100338

Ion Ratio Lower Upper

276 100

138 24.5 24.1 36.1

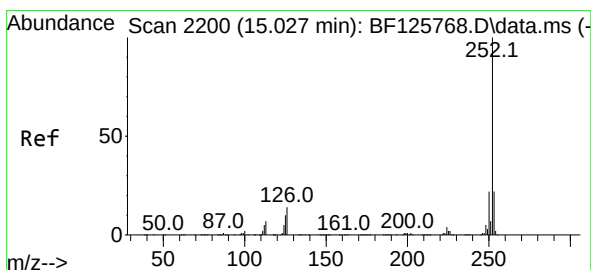
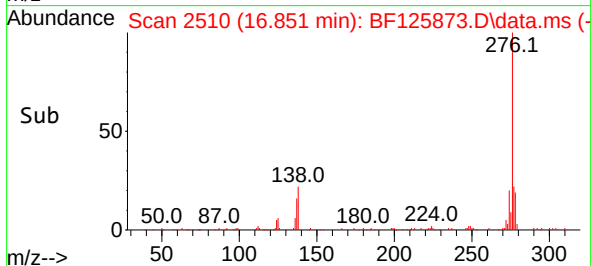
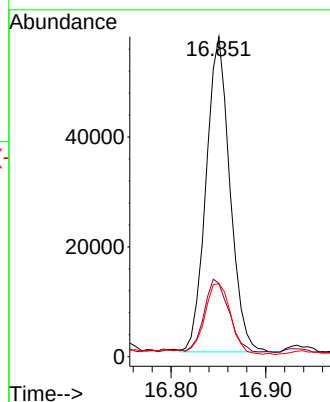
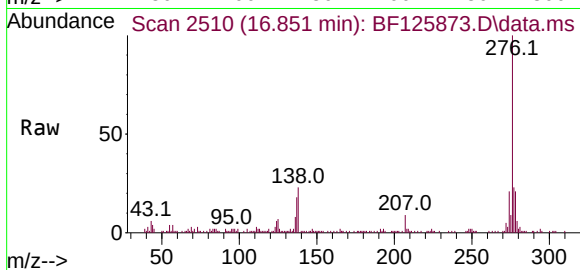
277 24.2 18.8 28.2

Instrument :

BNA_F

ClientSampleId :

HAR-SOILPILEDL



#88

Benzo(b)fluoranthene

Concen: 13.316 ng

RT: 15.004 min Scan# 2196

Delta R.T. -0.000 min

Lab File: BF125873.D

Acq: 18 Oct 2021 13:03

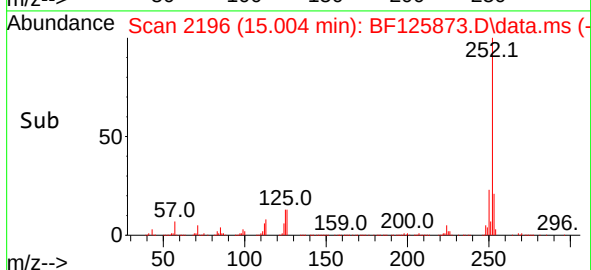
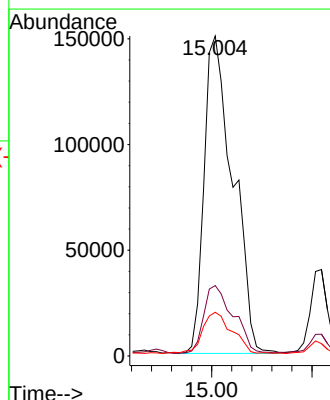
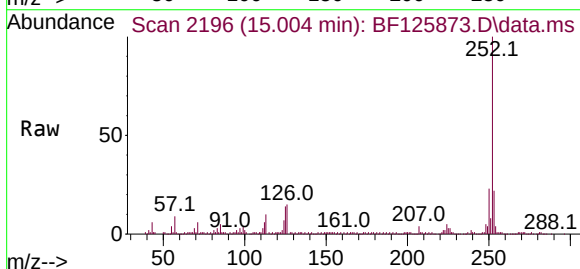
Tgt Ion:252 Resp: 300540

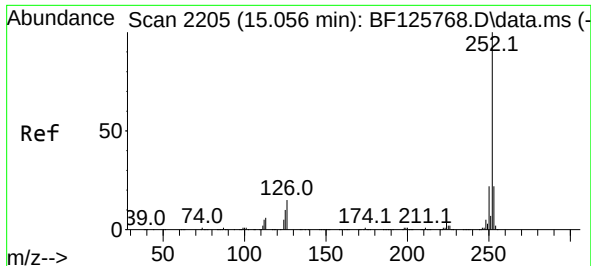
Ion Ratio Lower Upper

252 100

253 22.0 16.8 25.2

125 13.7 9.8 14.8

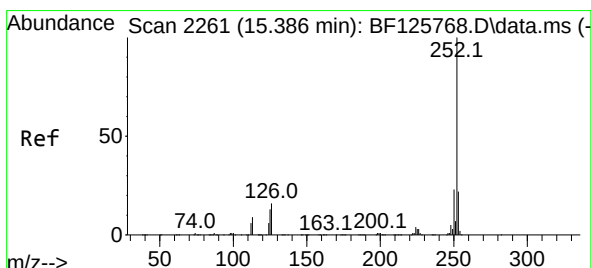
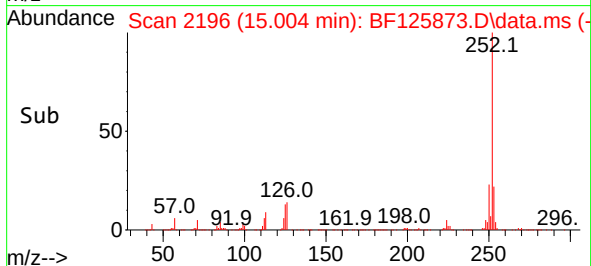
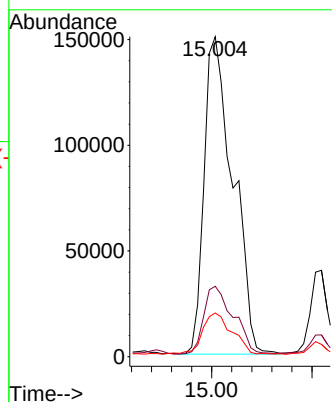
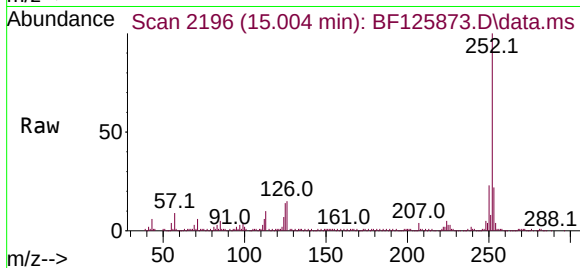




#89
Benzo(k)fluoranthene
Concen: 12.970 ng
RT: 15.004 min Scan# 2196
Delta R.T. -0.024 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

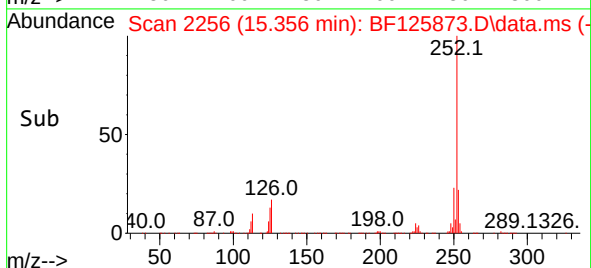
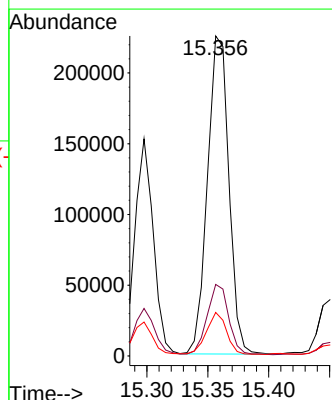
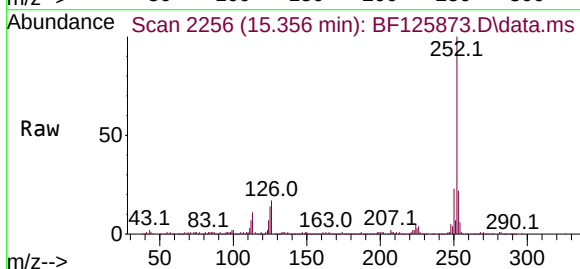
Instrument :
BNA_F
ClientSampleId :
HAR-SOILPILEDL

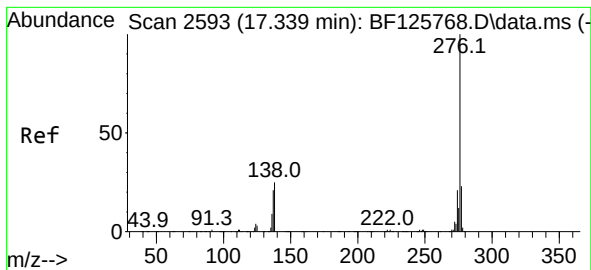
Tgt Ion:252 Resp: 300540
Ion Ratio Lower Upper
252 100
253 22.0 17.8 26.8
125 13.7 7.2 10.8#



#90
Benzo(a)pyrene
Concen: 13.738 ng
RT: 15.356 min Scan# 2256
Delta R.T. -0.006 min
Lab File: BF125873.D
Acq: 18 Oct 2021 13:03

Tgt Ion:252 Resp: 274572
Ion Ratio Lower Upper
252 100
253 22.4 18.4 27.6
125 13.6 9.9 14.9





#92
 Benzo(g,h,i)perylene
 Concen: 4.386 ng
 RT: 17.286 min Scan# 2584
 Delta R.T. -0.012 min
 Lab File: BF125873.D
 Acq: 18 Oct 2021 13:03

Instrument :
 BNA_F
 ClientSampleId :
 HAR-SOILPILEDL

Tgt Ion:276 Resp: 112737
 Ion Ratio Lower Upper
 276 100
 277 22.9 22.0 33.0
 138 26.7 22.2 33.4

