

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE120117\
 Data File : BE094899.D
 Acq On : 1 Dec 2017 11:09
 Operator : SJ/JU
 Sample : I6298-15DL 100X
 Misc :
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SoilDL

Quant Time: Dec 01 14:13:25 2017
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\8270-SIM-BE113017.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Fri Dec 01 13:33:28 2017
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.49	152	7620	0.40	ng	0.00
7) Naphthalene-d8	11.33	136	17123	0.40	ng	0.00
13) Acenaphthene-d10	15.08	164	9891	0.40	ng	0.00
19) Phenanthrene-d10	17.77	188	24643	0.40	ng	0.00
27) Chrysene-d12	21.89	240	29732	0.40	ng	0.00
34) Perylene-d12	24.57	264	23089	0.40	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.96	112	10894	0.90	ng	0.00
5) Phenol-d6	7.59	99	17084	0.96	ng	0.00
8) Nitrobenzene-d5	9.66	82	7503	0.74	ng	0.00
11) 2-Methylnaphthalene-d10	12.85	152	6	0.00	ng	-0.02
14) 2,4,6-Tribromophenol	16.53	330	1632	0.71	ng	0.00
15) 2-Fluorobiphenyl	13.71	172	26018	0.61	ng	0.00
25) Fluoranthene-d10	19.75	212	73	0.00	ng	0.00
29) Terphenyl-d14	20.33	244	36403	0.66	ng	0.00

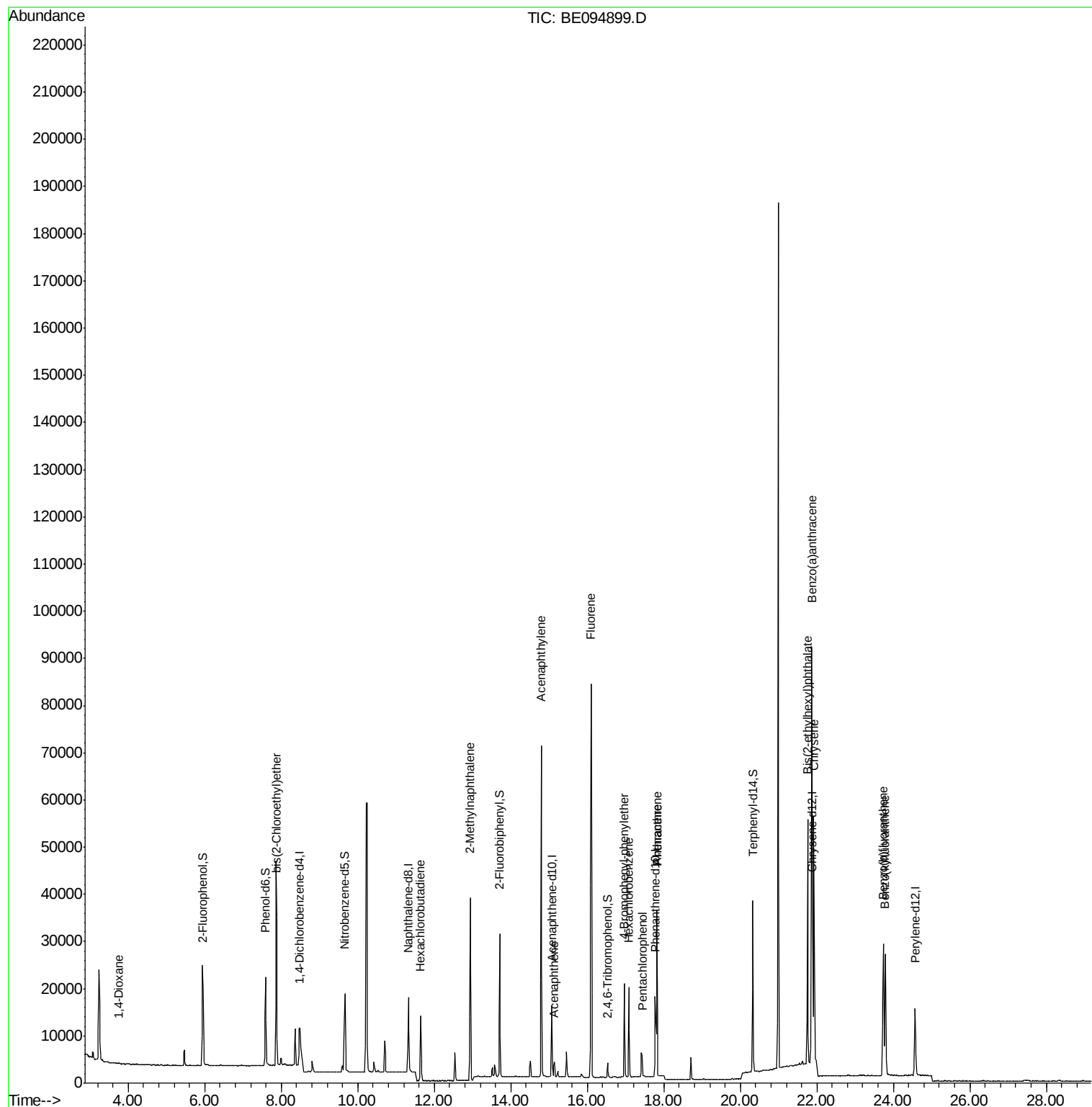
Target Compounds				Qvalue		
2) 1,4-Dioxane	3.74	88	218	0.027	ng	# 24
6) bis(2-Chloroethyl)ether	7.88	93	14305	0.808	ng	92
10) Hexachlorobutadiene	11.64	225	8965	1.058	ng	97
12) 2-Methylnaphthalene	12.94	142	39259	0.787	ng	98
16) Acenaphthylene	14.79	152	72981	1.306	ng	99
17) Acenaphthene	15.14	154	1735	0.048	ng	95
18) Fluorene	16.10	166	53551	1.165	ng	# 78
20) 4-Bromophenyl-phenylether	16.97	248	10143	0.738	ng	# 58
21) Hexachlorobenzene	17.09	284	14440	1.077	ng	# 79
22) Pentachlorophenol	17.43	266	3039	0.818	ng	# 71
23) Phenanthrene	17.82	178	35037	0.446	ng	99
24) Anthracene	17.82	178	35037	0.421	ng	# 94
30) Benzo(a)anthracene	21.87	228	89446	0.981	ng	# 61
31) Chrysene	21.92	228	49641	0.493	ng	# 64
32) Bis(2-ethylhexyl)phthalate	21.76	149	58622	0.388	ng	100
35) Benzo(b)fluoranthene	23.73	252	41838	0.496	ng	# 40
36) Benzo(k)fluoranthene	23.79	252	38230	0.445	ng	# 40

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

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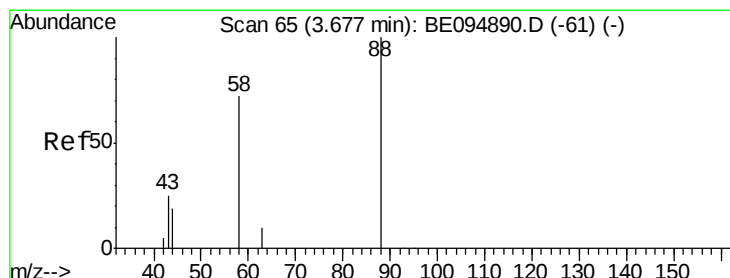
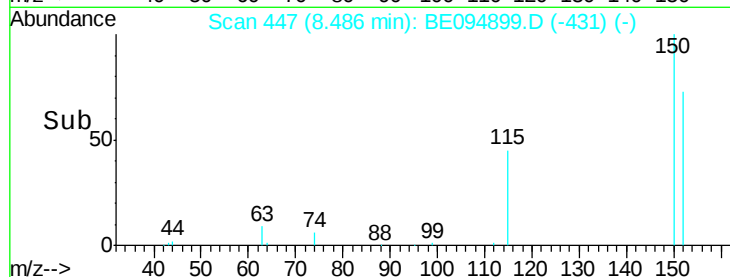
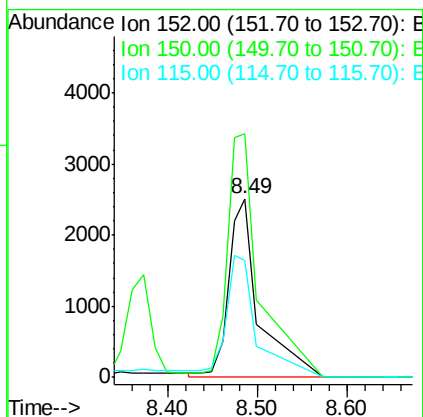
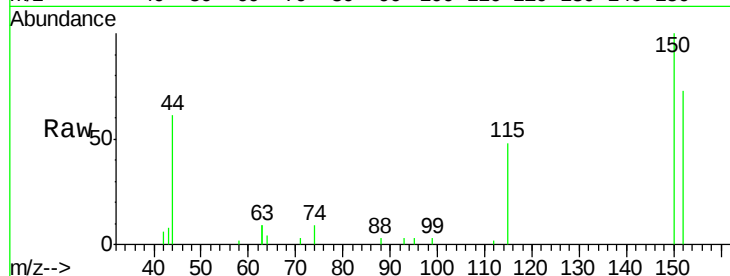


#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 8.49 min Scan# 447
Delta R.T. -0.00 min
Lab File: BE094899.D
Acq: 1 Dec 2017 11:09

Instrument :
BNA_E
ClientSampleId :
PT-BNA-SoilDL

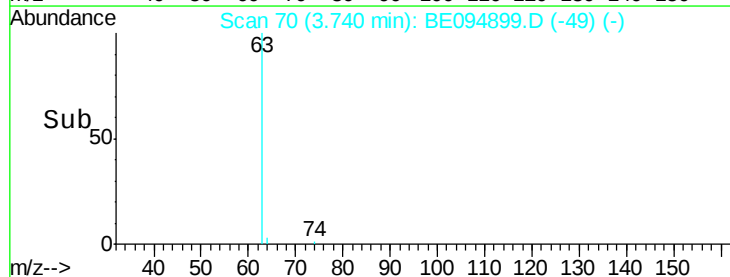
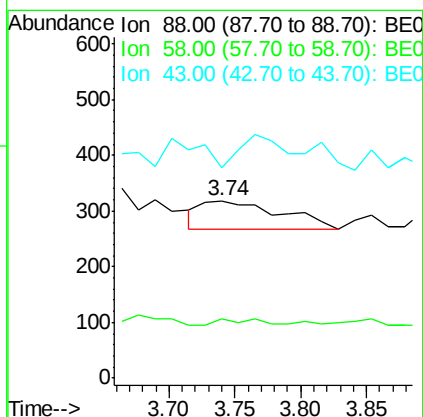
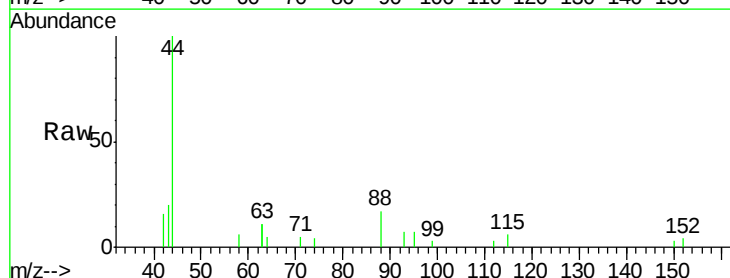
Tgt Ion: 152 Resp: 7620
Ion Ratio Lower Upper
152 100
150 136.3 117.2 175.8
115 65.2 57.0 85.6

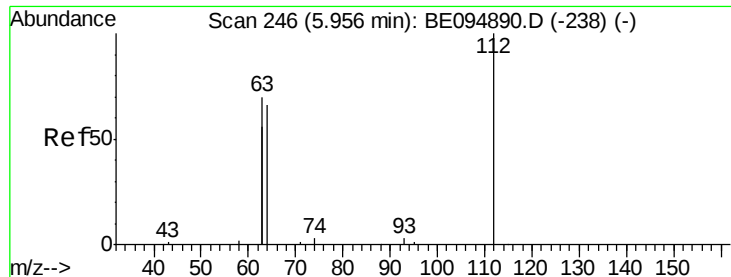


#2

1,4-Dioxane
Concen: 0.027 ng
RT: 3.74 min Scan# 70
Delta R.T. 0.06 min
Lab File: BE094899.D
Acq: 1 Dec 2017 11:09

Tgt Ion: 88 Resp: 218
Ion Ratio Lower Upper
88 100
58 11.0 63.2 94.8#
43 0.0 41.2 61.8#





#4

2-Fluorophenol

Concen: 0.903 ng

RT: 5.96 min Scan# 246

Delta R.T. -0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

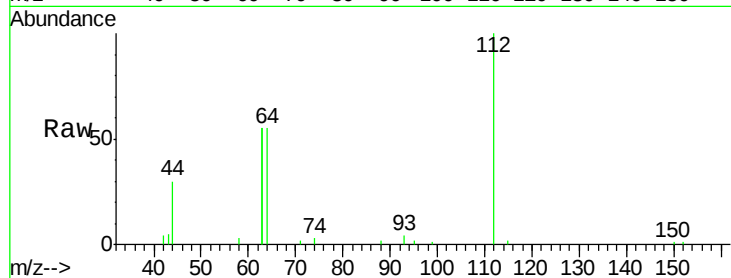
Tgt Ion: 112 Resp: 10894

Ion Ratio Lower Upper

112 100

64 79.1 60.1 90.1

63 168.1 116.8 175.2



Abundance Ion 112.00 (111.70 to 112.70): BE094899.D (-230) (-)

15000

Ion 64.00 (63.70 to 64.70): BE094899.D (-230) (-)

10000

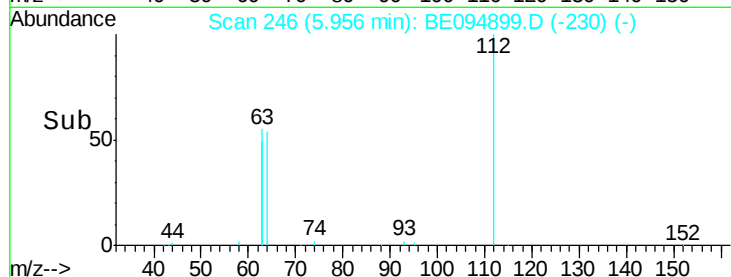
Ion 63.00 (62.70 to 63.70): BE094899.D (-230) (-)

5000

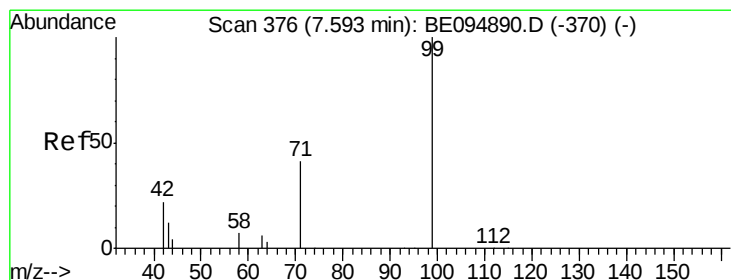
5.96

0

Time-->



Time-->



#5

Phenol-d6

Concen: 0.956 ng

RT: 7.59 min Scan# 376

Delta R.T. -0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

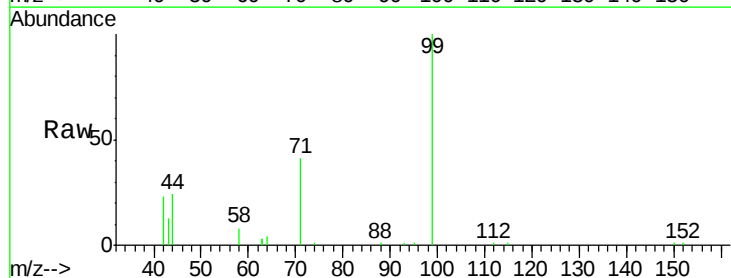
Tgt Ion: 99 Resp: 17084

Ion Ratio Lower Upper

99 100

42 24.7 20.2 30.2

71 40.6 28.4 42.6



Abundance Ion 99.00 (98.70 to 99.70): BE094899.D (-360) (-)

10000

Ion 42.00 (41.70 to 42.70): BE094899.D (-360) (-)

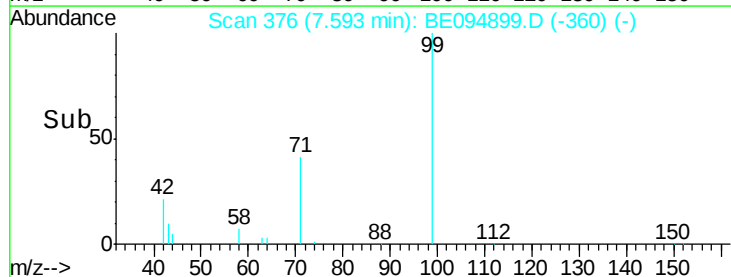
5000

Ion 71.00 (70.70 to 71.70): BE094899.D (-360) (-)

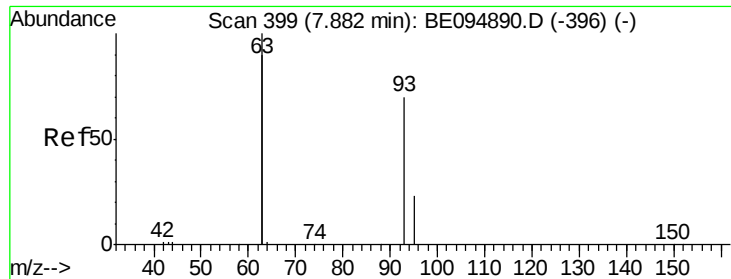
7.59

0

Time-->



Time-->



#6

bis(2-Chloroethyl)ether

Concen: 0.808 ng

RT: 7.88 min Scan# 399

Delta R.T. -0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

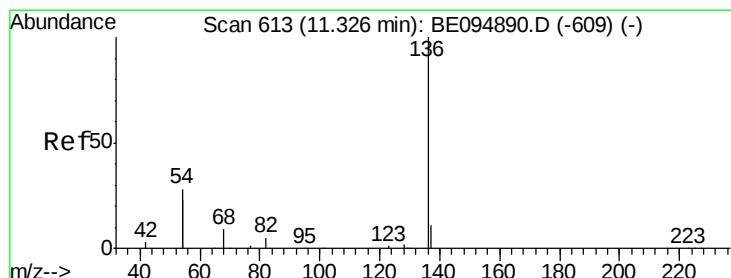
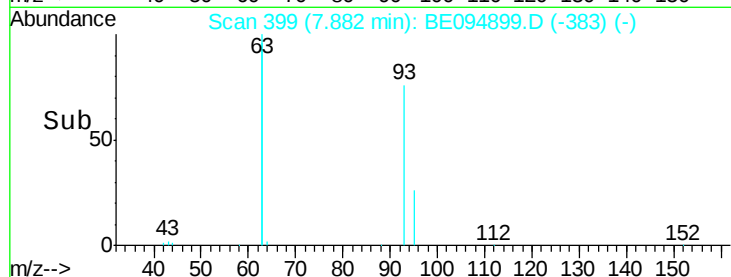
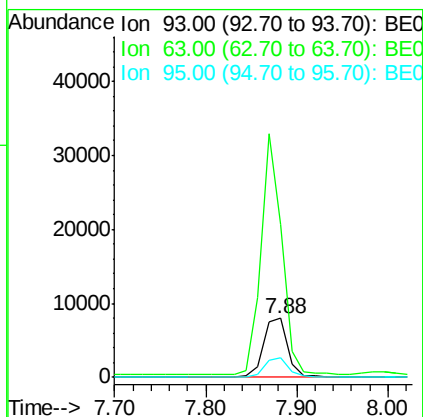
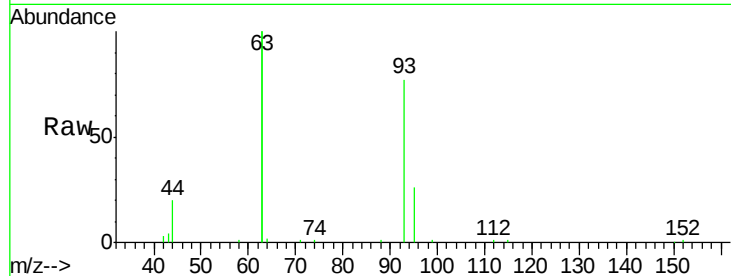
Tgt Ion: 93 Resp: 14305

Ion Ratio Lower Upper

93 100

63 361.7 275.3 412.9

95 32.1 25.2 37.8



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 11.33 min Scan# 613

Delta R.T. -0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

Tgt Ion: 136 Resp: 17123

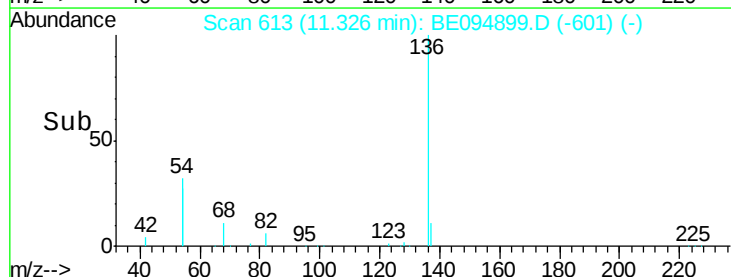
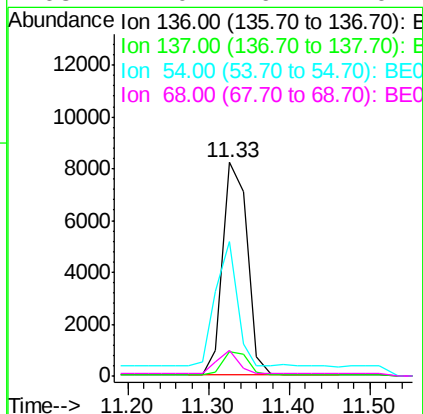
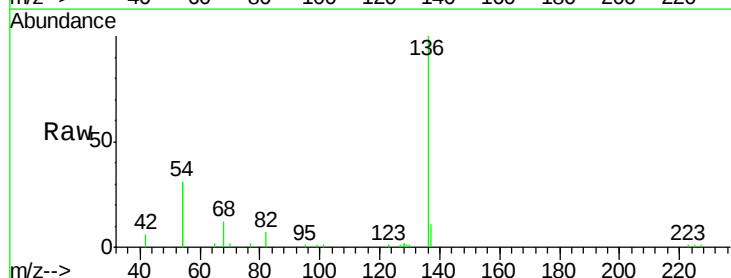
Ion Ratio Lower Upper

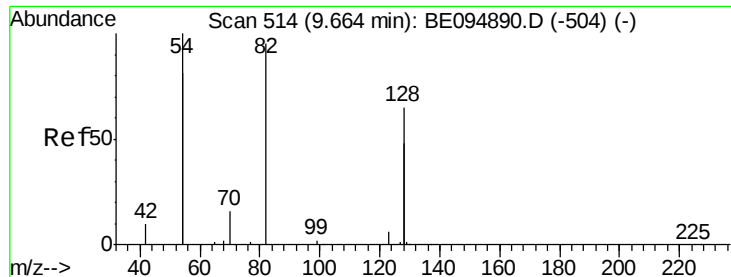
136 100

137 11.3 9.5 14.3

54 62.9 29.1 43.7#

68 12.0 6.2 9.2#





#8

Nitrobenzene-d5

Concen: 0.740 ng

RT: 9.66 min Scan# 514

Delta R.T. -0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

Instrument :

BNA_E

ClientSampleID :

PT-BNA-SoilDL

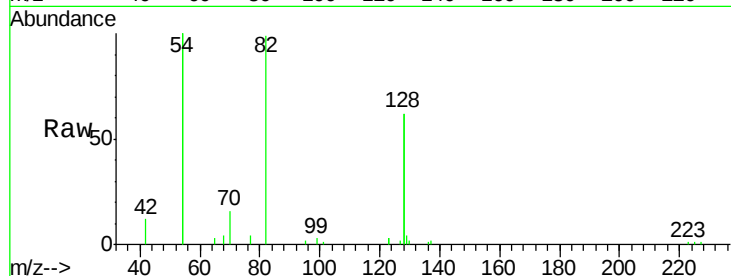
Tgt Ion: 82 Resp: 7503

Ion Ratio Lower Upper

82 100

128 125.0 150.0 225.0#

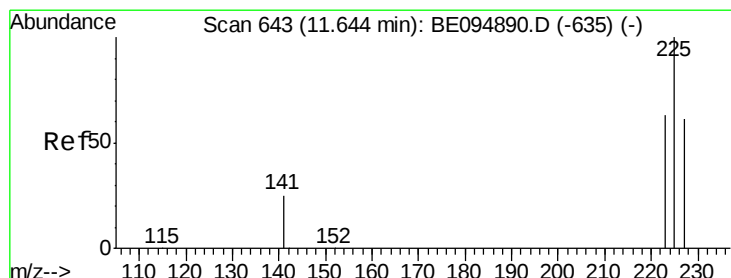
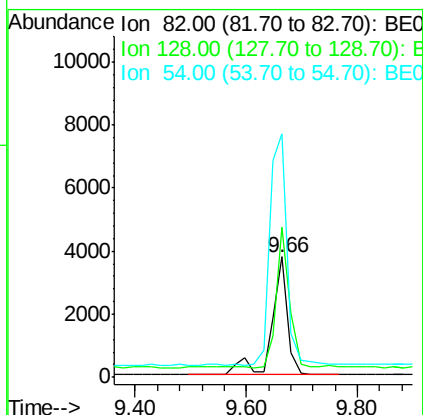
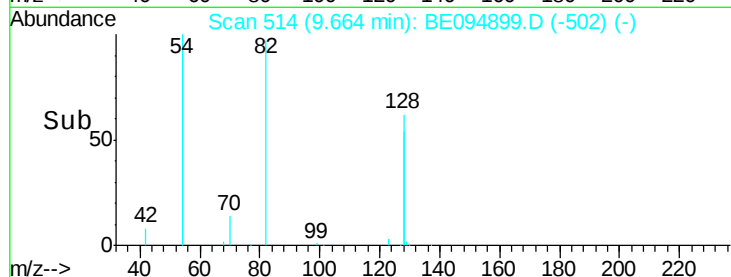
54 202.3 154.2 231.4



Abundance Ion 82.00 (81.70 to 82.70): BE094899.D (-504) (-)

Ion 128.00 (127.70 to 128.70): BE094899.D (-504) (-)

Ion 54.00 (53.70 to 54.70): BE094899.D (-504) (-)



#10

Hexachlorobutadiene

Concen: 1.058 ng

RT: 11.64 min Scan# 643

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

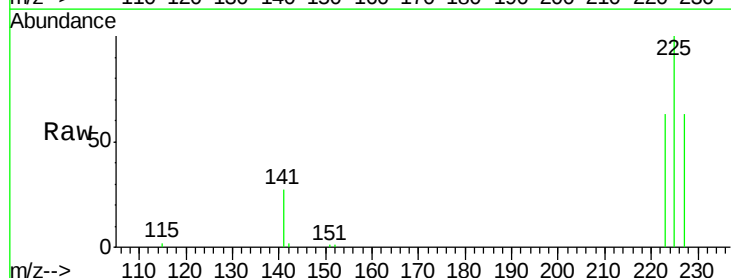
Tgt Ion: 225 Resp: 8965

Ion Ratio Lower Upper

225 100

223 62.4 53.0 79.6

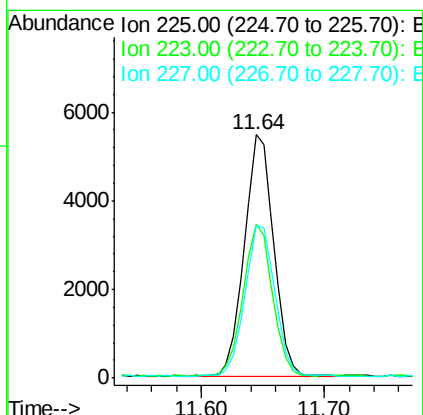
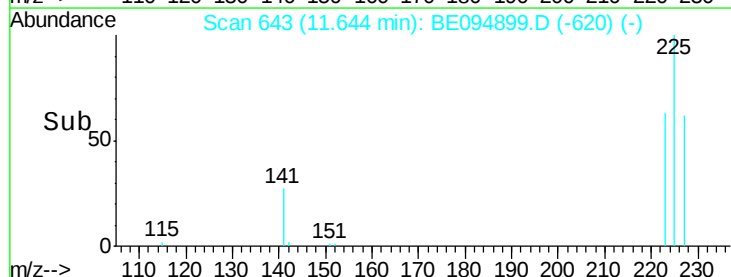
227 63.9 51.4 77.2

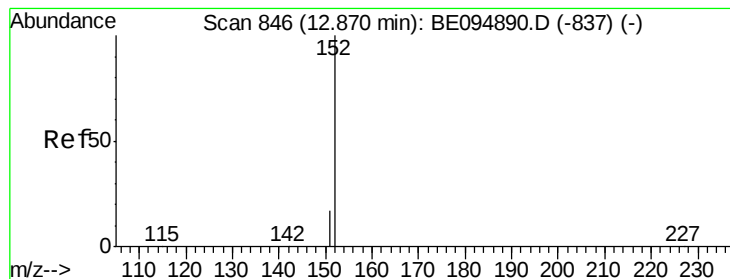


Abundance Ion 225.00 (224.70 to 225.70): BE094899.D (-635) (-)

Ion 223.00 (222.70 to 223.70): BE094899.D (-635) (-)

Ion 227.00 (226.70 to 227.70): BE094899.D (-635) (-)





#11

2-Methylnaphthalene-d10

Concen: 0.000 ng

RT: 12.85 min Scan# 843

Delta R.T. -0.02 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

Instrument :

BNA_E

ClientSampleId :

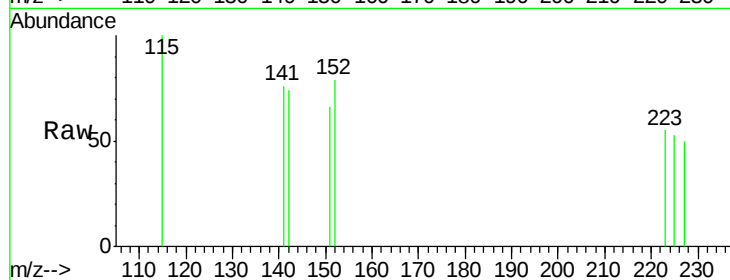
PT-BNA-SoilDL

Tgt Ion:152 Resp: 6

Ion Ratio Lower Upper

152 100

151 100.0 15.4 23.0#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

12.85

60

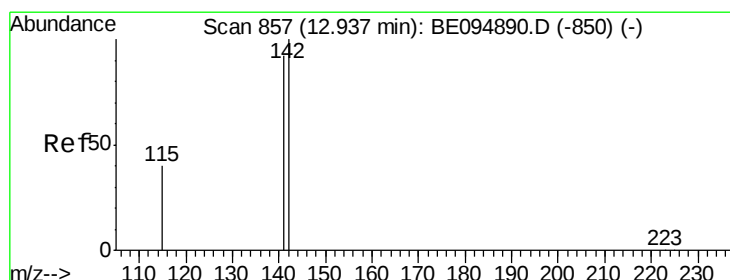
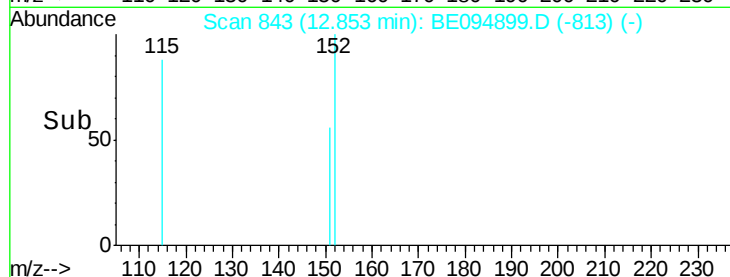
40

20

0

Time-->

12.84 12.85 12.86



#12

2-Methylnaphthalene

Concen: 0.787 ng

RT: 12.94 min Scan# 858

Delta R.T. 0.01 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

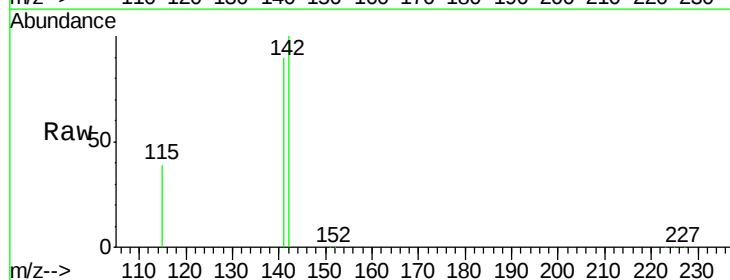
Tgt Ion:142 Resp: 39259

Ion Ratio Lower Upper

142 100

141 90.0 70.4 105.6

115 38.6 31.7 47.5



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E

20000

15000

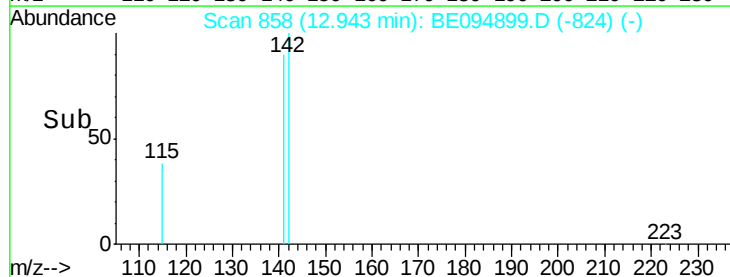
10000

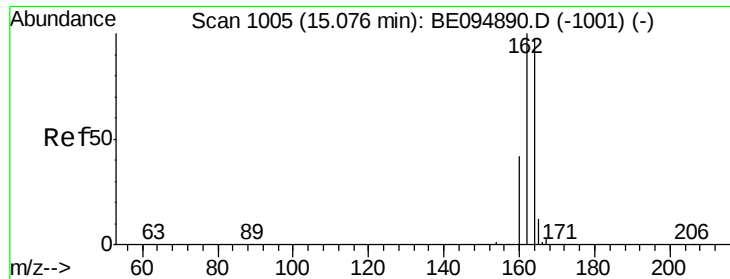
5000

0

Time-->

12.90 12.94 13.00 13.10





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 15.08 min Scan# 1005

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

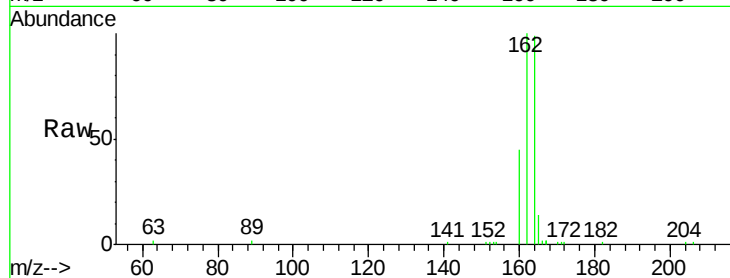
Tgt Ion:164 Resp: 9891

Ion Ratio Lower Upper

164 100

162 101.1 83.1 124.7

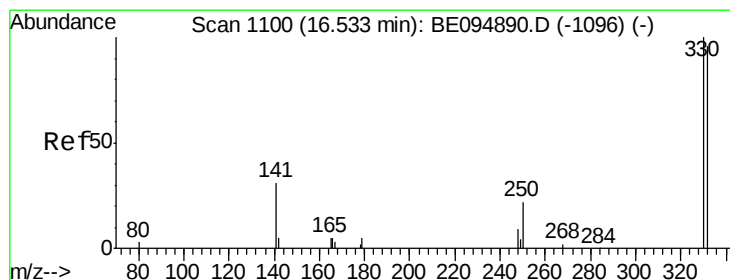
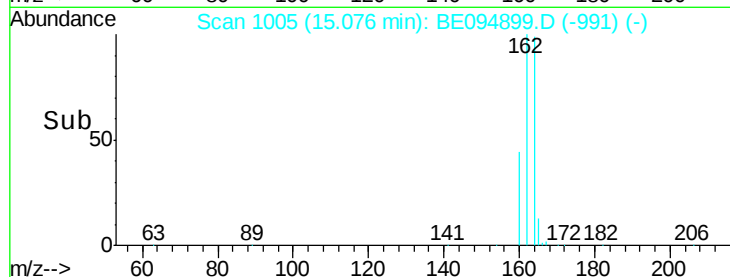
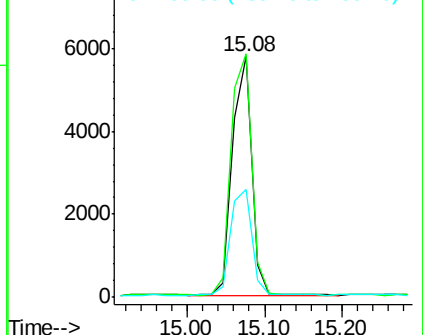
160 45.0 37.1 55.7



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#14

2,4,6-Tribromophenol

Concen: 0.708 ng

RT: 16.53 min Scan# 1100

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

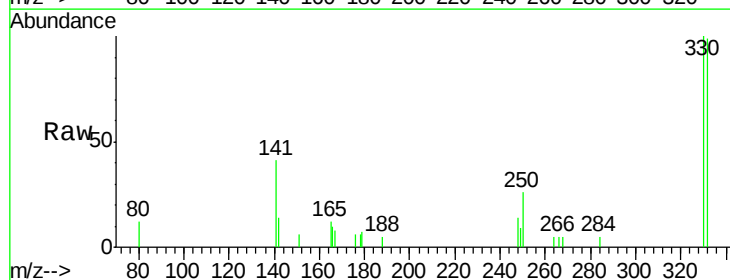
Tgt Ion:330 Resp: 1632

Ion Ratio Lower Upper

330 100

332 102.8 152.7 229.1#

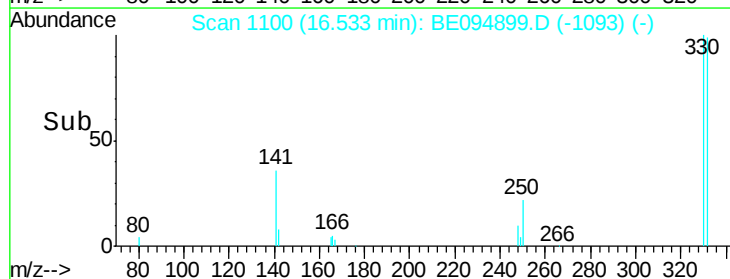
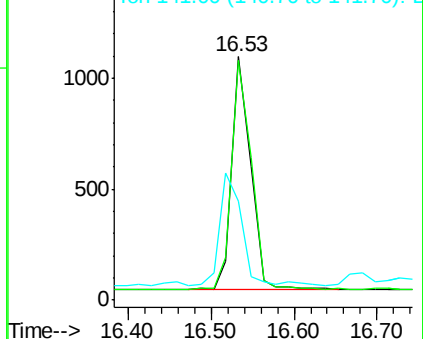
141 55.8 33.7 50.5#

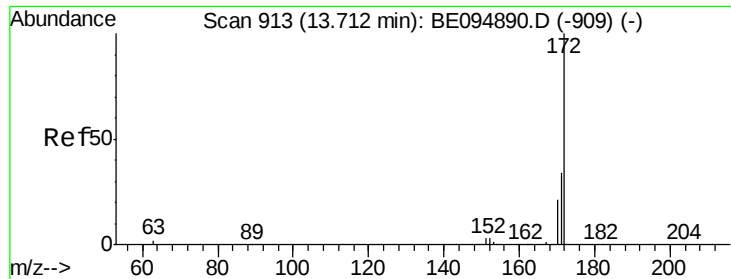


Abundance Ion 330.00 (329.70 to 330.70): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

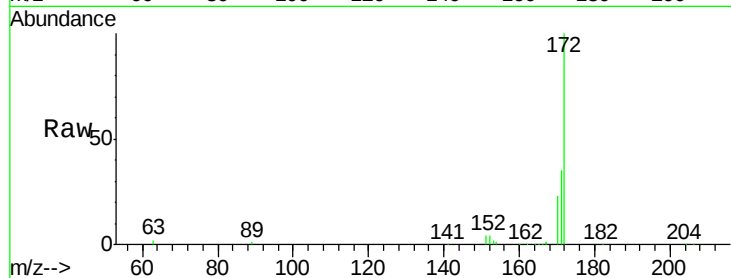




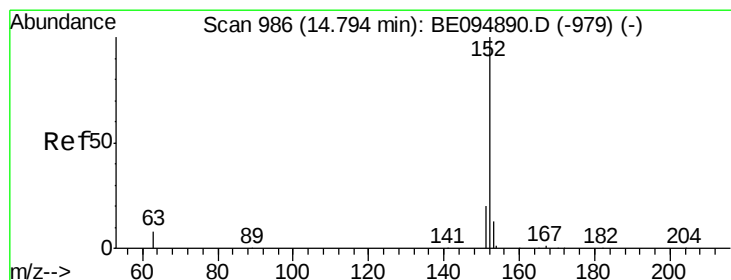
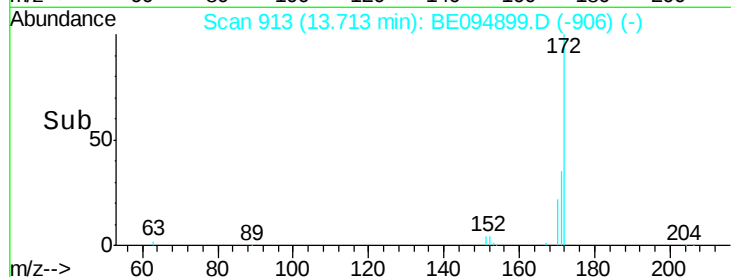
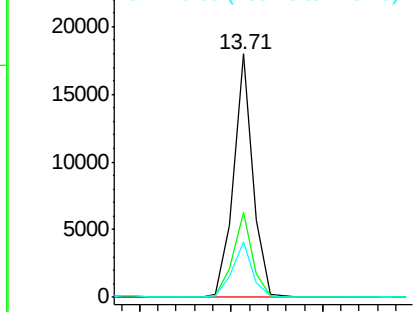
#15
2-Fluorobiphenyl
Concen: 0.614 ng
RT: 13.71 min Scan# 913
Delta R.T. 0.00 min
Lab File: BE094899.D
Acq: 1 Dec 2017 11:09

Instrument :
BNA_E
ClientSampleId :
PT-BNA-SoilDL

Tgt Ion:172 Resp: 26018
Ion Ratio Lower Upper
172 100
171 34.8 29.9 44.9
170 22.7 21.8 32.8

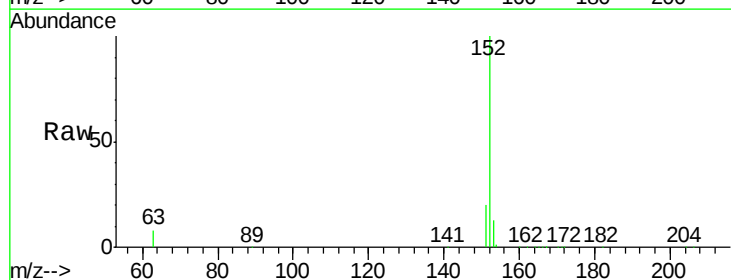


Abundance Ion 172.00 (171.70 to 172.70): E
Ion 171.00 (170.70 to 171.70): E
Ion 170.00 (169.70 to 170.70): E

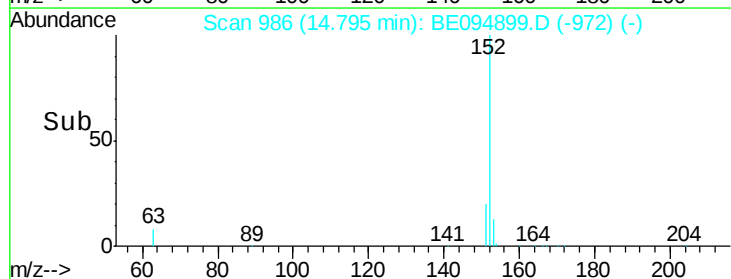
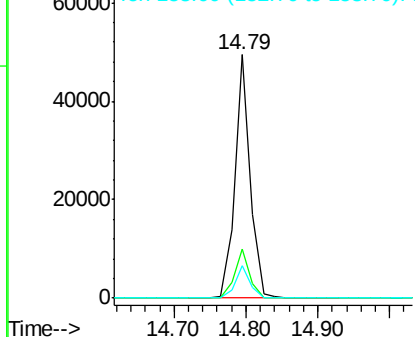


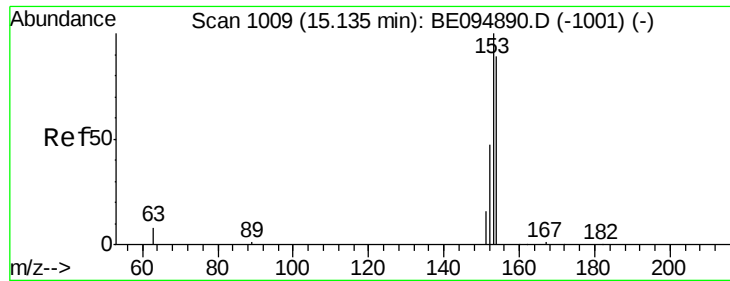
#16
Acenaphthylene
Concen: 1.306 ng
RT: 14.79 min Scan# 986
Delta R.T. 0.00 min
Lab File: BE094899.D
Acq: 1 Dec 2017 11:09

Tgt Ion:152 Resp: 72981
Ion Ratio Lower Upper
152 100
151 19.9 15.7 23.5
153 12.9 10.5 15.7



Abundance Ion 152.00 (151.70 to 152.70): E
Ion 151.00 (150.70 to 151.70): E
Ion 153.00 (152.70 to 153.70): E





#17

Acenaphthene

Concen: 0.048 ng

RT: 15.14 min Scan# 1009

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

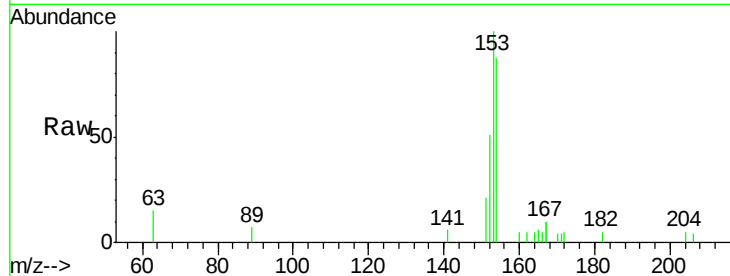
Tgt Ion:154 Resp: 1735

Ion Ratio Lower Upper

154 100

153 115.6 89.2 133.8

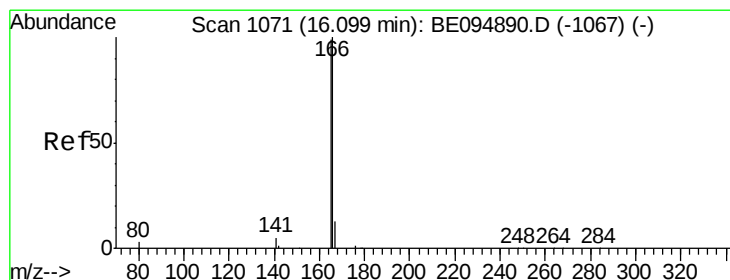
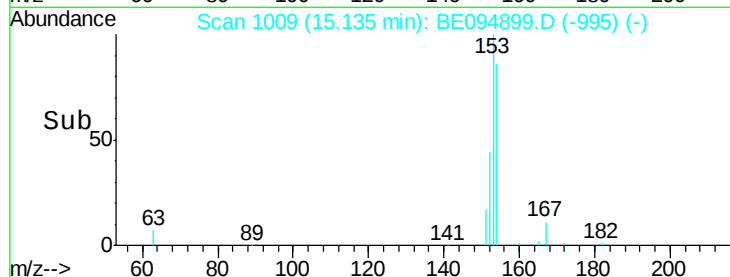
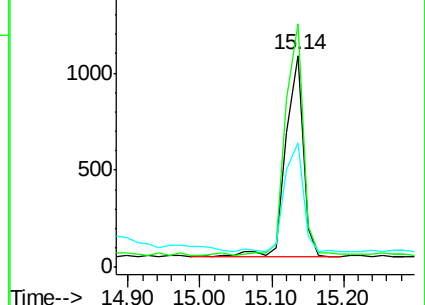
152 57.2 42.0 63.0



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#18

Fluorene

Concen: 1.165 ng

RT: 16.10 min Scan# 1071

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

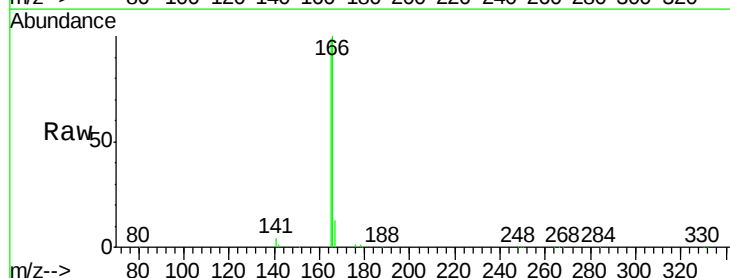
Tgt Ion:166 Resp: 53551

Ion Ratio Lower Upper

166 100

165 100.5 77.8 116.6

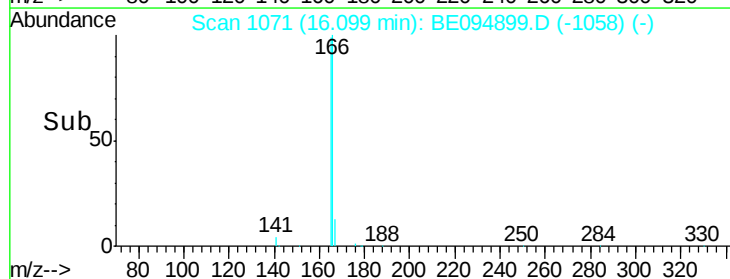
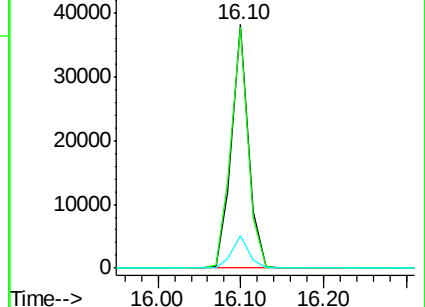
167 13.2 42.4 63.6#

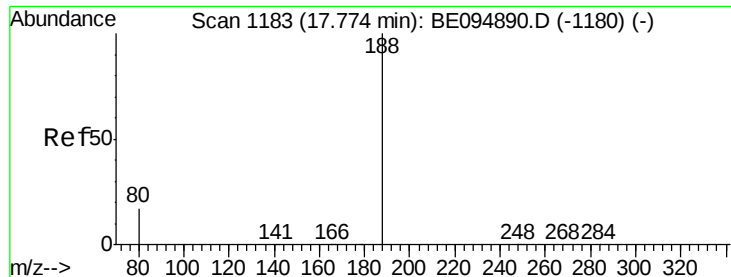


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.77 min Scan# 1183

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

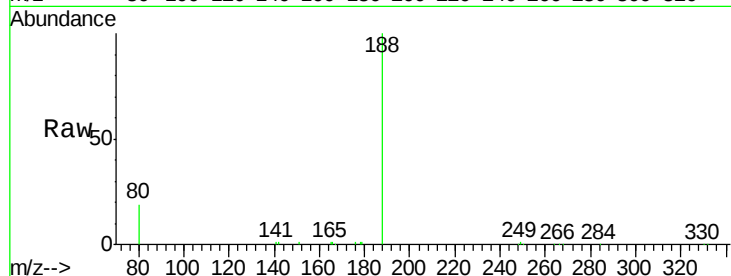
Tgt Ion:188 Resp: 24643

Ion Ratio Lower Upper

188 100

94 0.0 3.9 5.9#

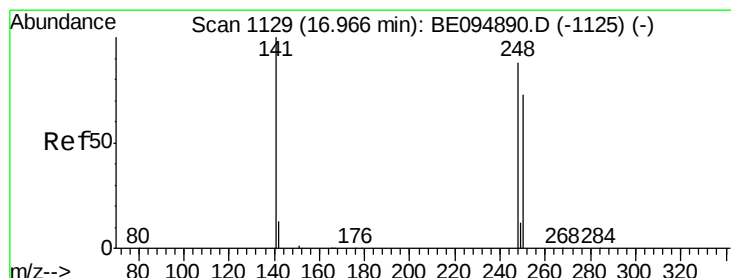
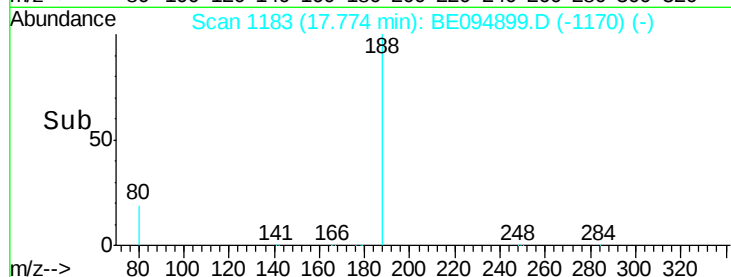
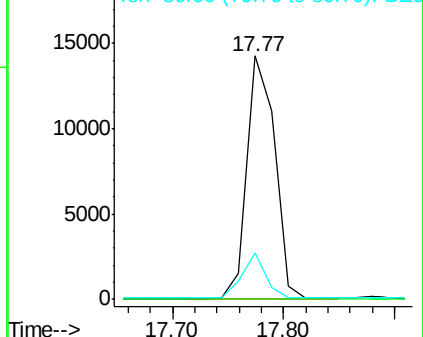
80 19.3 3.6 5.4#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

4-Bromophenyl-phenylether

Concen: 0.738 ng

RT: 16.97 min Scan# 1129

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

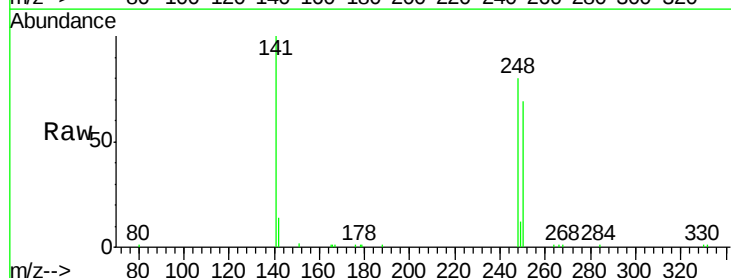
Tgt Ion:248 Resp: 10143

Ion Ratio Lower Upper

248 100

250 86.1 62.7 94.1

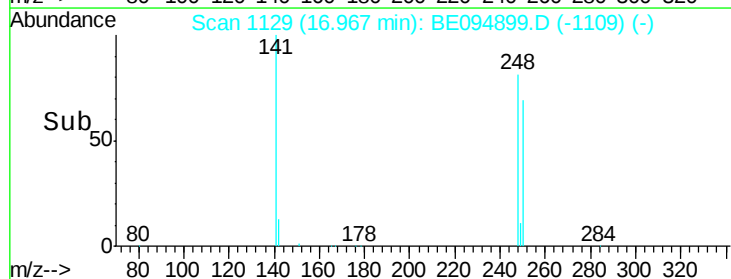
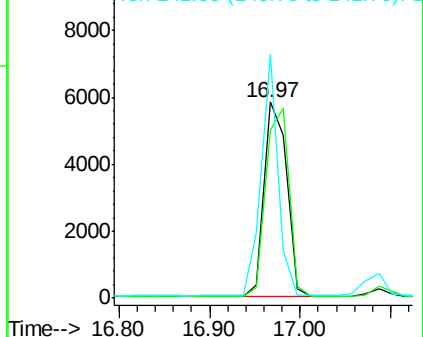
141 124.4 48.2 72.2#

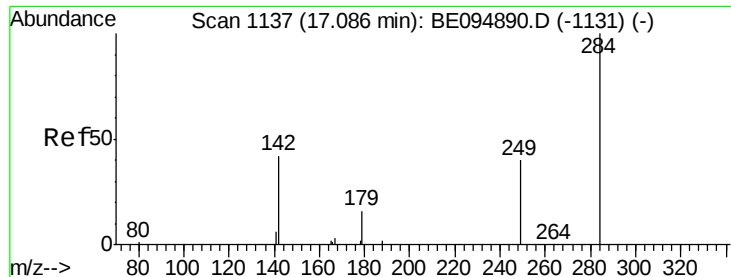


Abundance Ion 248.00 (247.70 to 248.70): E

Ion 250.00 (249.70 to 250.70): E

Ion 141.00 (140.70 to 141.70): E





#21

Hexachlorobenzene

Concen: 1.077 ng

RT: 17.09 min Scan# 1137

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

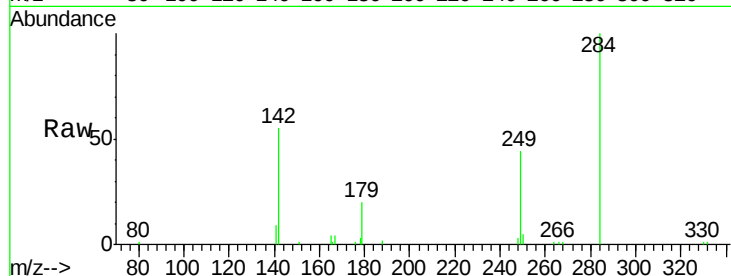
Tgt Ion:284 Resp: 14440

Ion Ratio Lower Upper

284 100

142 46.1 22.1 33.1#

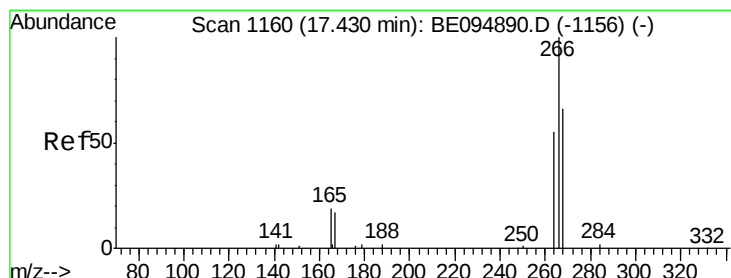
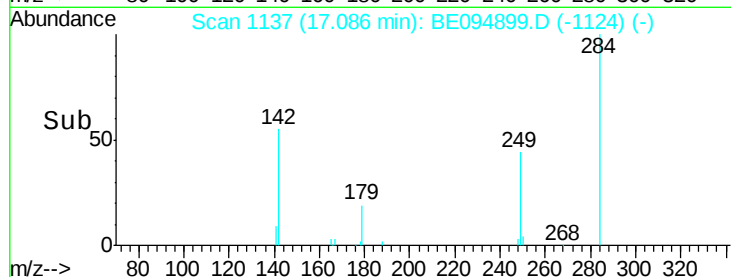
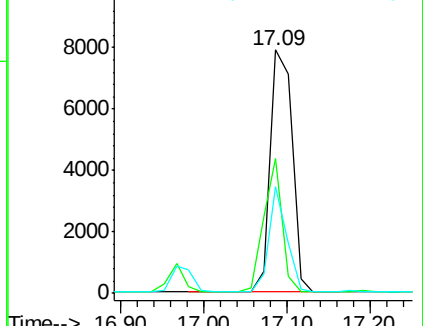
249 35.5 34.8 52.2



Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E



#22

Pentachlorophenol

Concen: 0.818 ng

RT: 17.43 min Scan# 1160

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

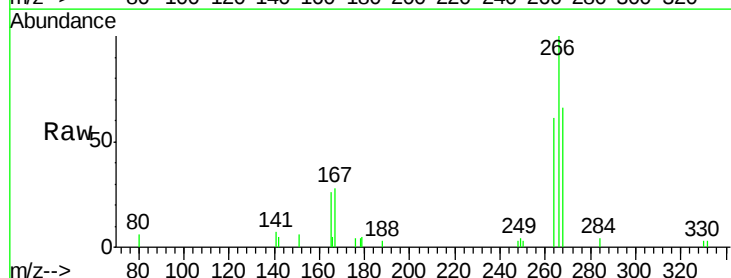
Tgt Ion:266 Resp: 3039

Ion Ratio Lower Upper

266 100

264 60.7 72.5 108.7#

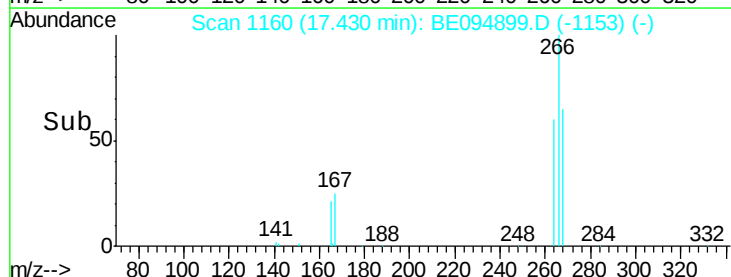
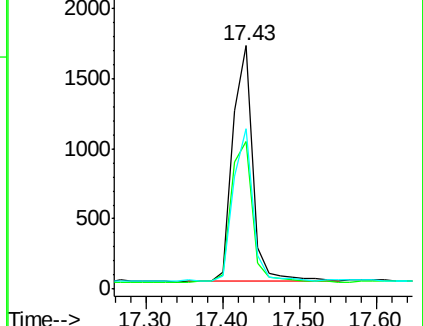
268 66.1 73.8 110.6#

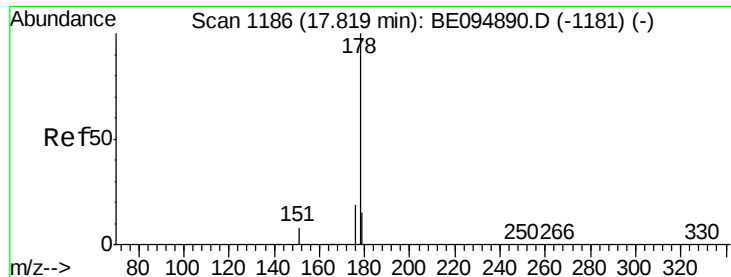


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E





#23

Phenanthrene

Concen: 0.446 ng

RT: 17.82 min Scan# 1186

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

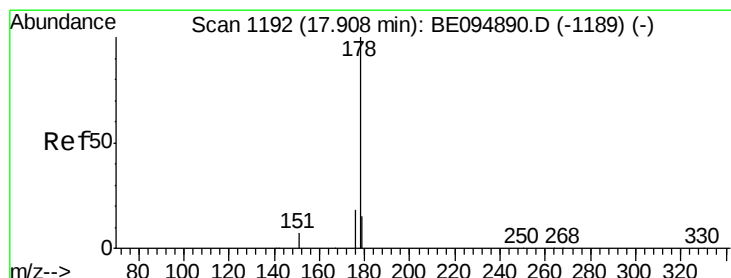
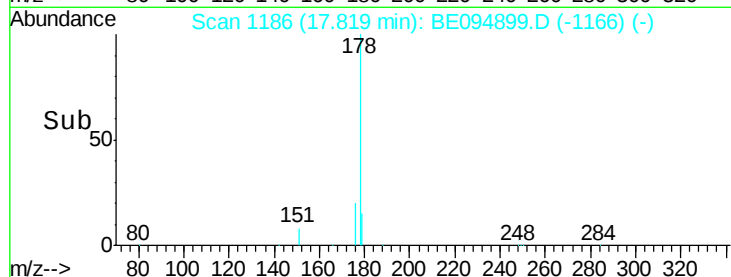
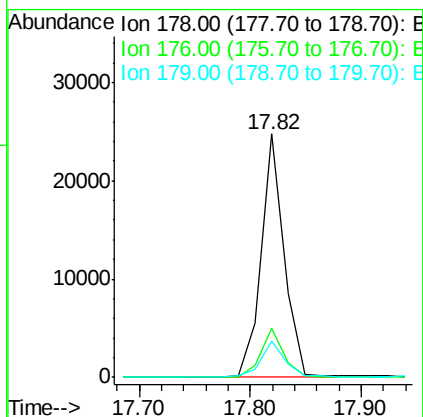
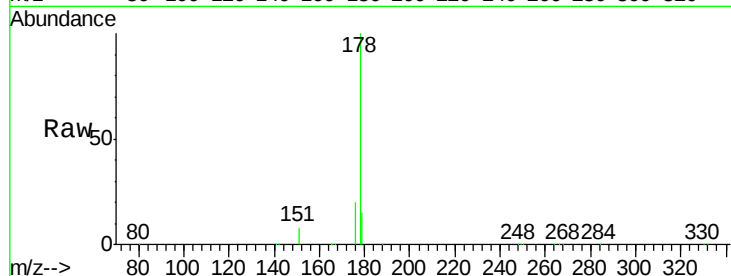
Tgt Ion:178 Resp: 35037

Ion Ratio Lower Upper

178 100

176 19.4 15.1 22.7

179 14.9 11.8 17.6



#24

Anthracene

Concen: 0.421 ng

RT: 17.82 min Scan# 1186

Delta R.T. -0.09 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

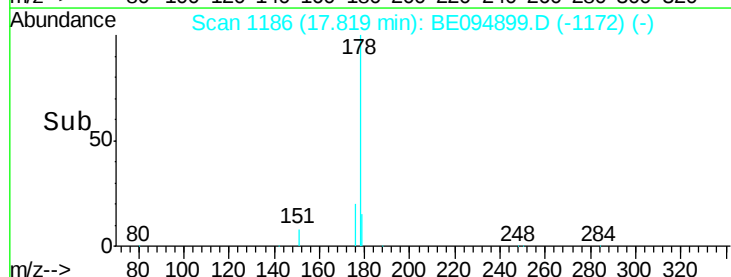
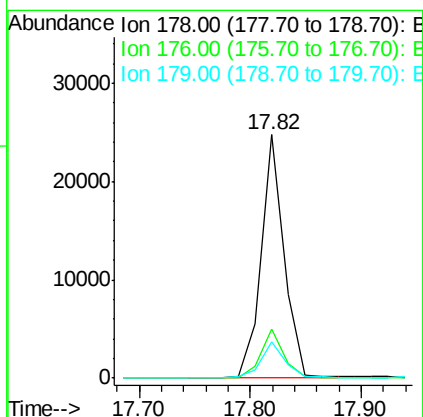
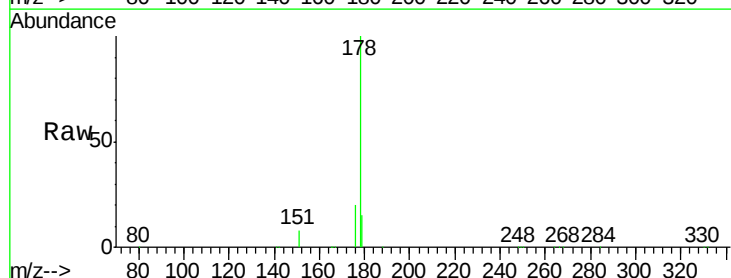
Tgt Ion:178 Resp: 35037

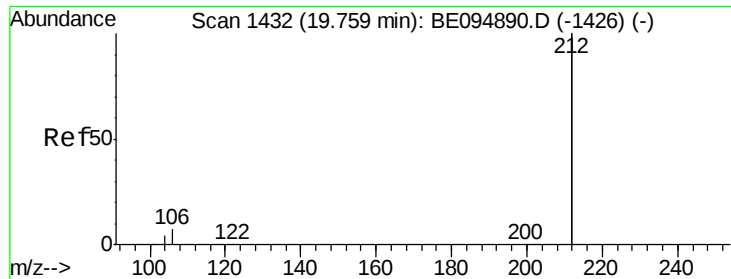
Ion Ratio Lower Upper

178 100

176 19.4 12.8 19.2#

179 14.9 13.0 19.6

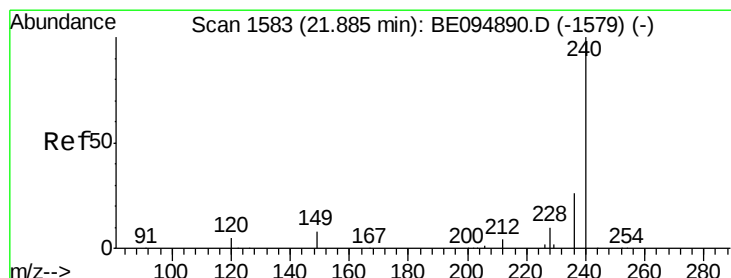
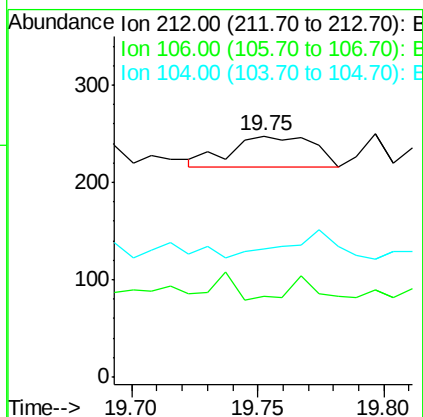
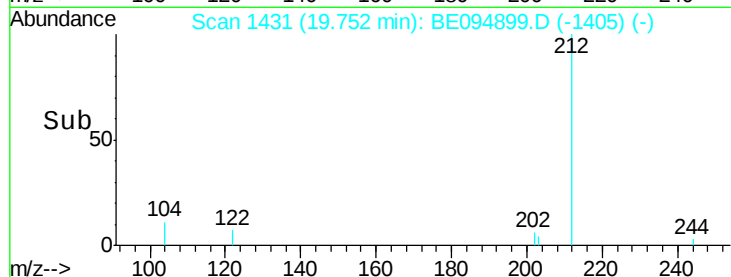
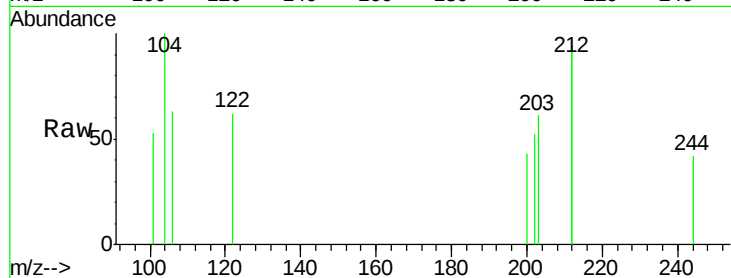




#25
 Fluoranthene-d10
 Concen: 0.000 ng
 RT: 19.75 min Scan# 1431
 Delta R.T. -0.01 min
 Lab File: BE094899.D
 Acq: 1 Dec 2017 11:09

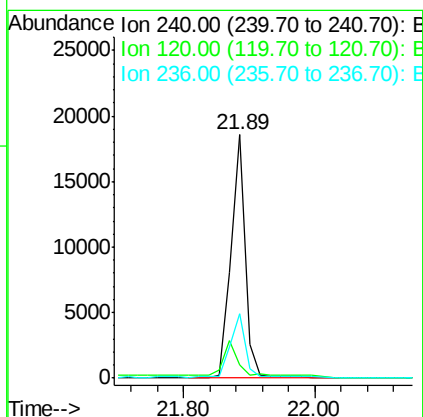
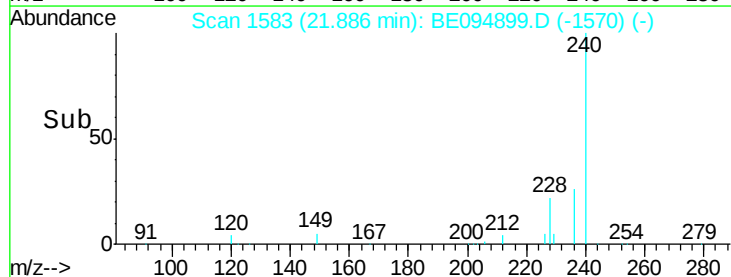
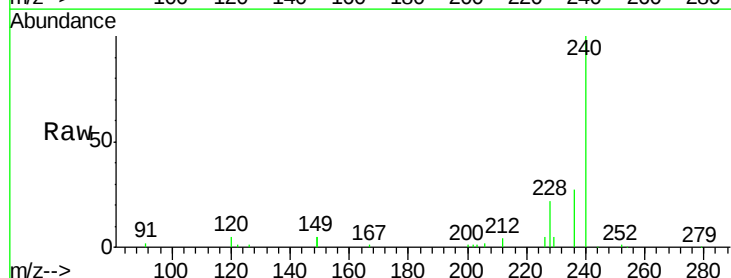
Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SoilDL

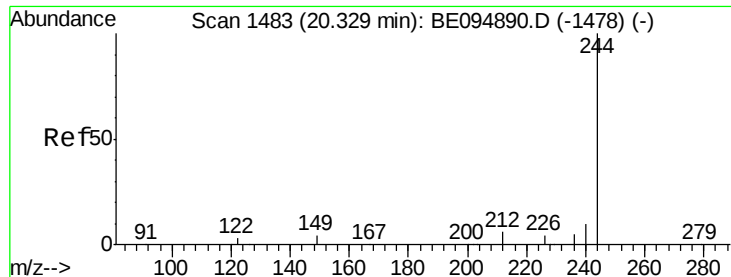
Tgt Ion: 212 Resp: 73
 Ion Ratio Lower Upper
 212 100
 106 17.8 2.8 4.2#
 104 0.0 1.6 2.4#



#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.89 min Scan# 1583
 Delta R.T. 0.00 min
 Lab File: BE094899.D
 Acq: 1 Dec 2017 11:09

Tgt Ion: 240 Resp: 29732
 Ion Ratio Lower Upper
 240 100
 120 5.3 5.5 8.3#
 236 26.7 20.7 31.1





#29

Terphenyl-d14

Concen: 0.663 ng

RT: 20.33 min Scan# 1483

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

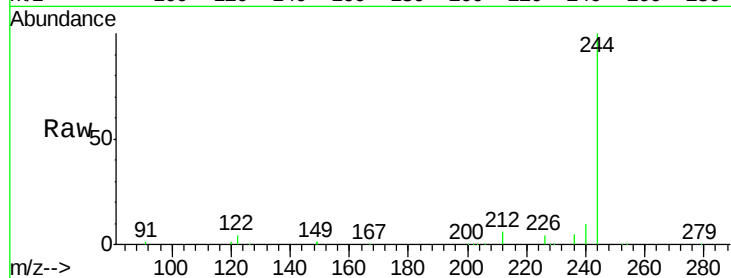
Tgt Ion:244 Resp: 36403

Ion Ratio Lower Upper

244 100

212 6.4 25.4 38.0#

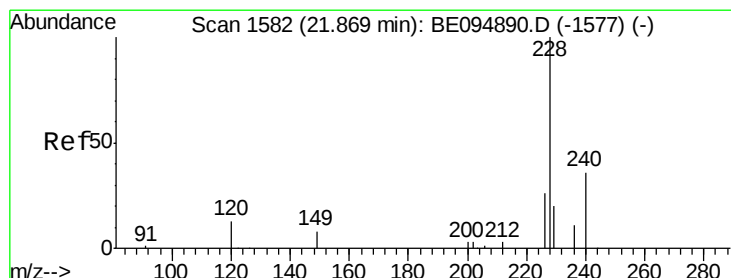
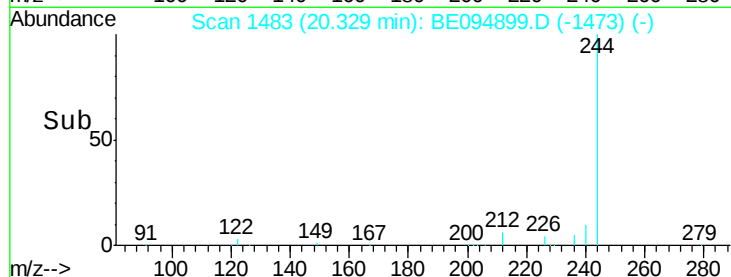
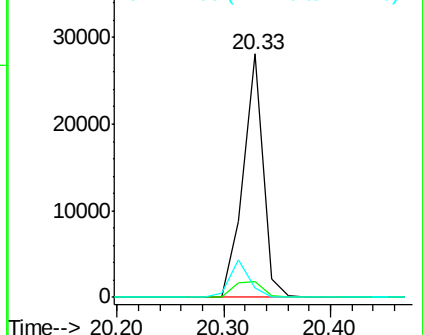
122 3.7 8.1 12.1#



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#30

Benzo(a)anthracene

Concen: 0.981 ng

RT: 21.87 min Scan# 1582

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

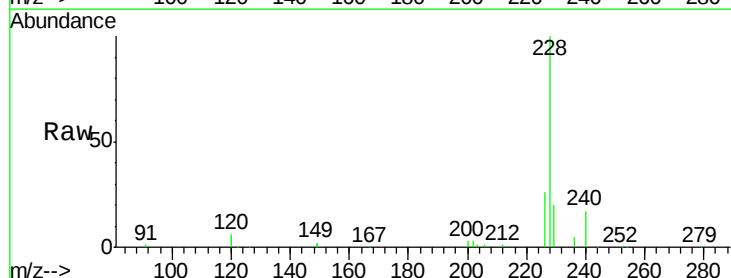
Tgt Ion:228 Resp: 89446

Ion Ratio Lower Upper

228 100

226 26.0 40.0 60.0#

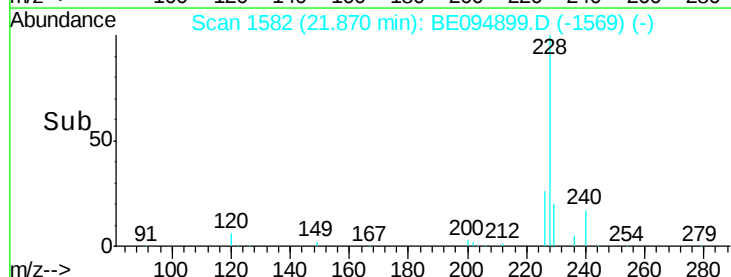
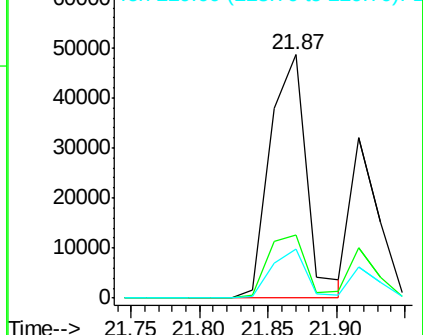
229 20.2 40.0 60.0#

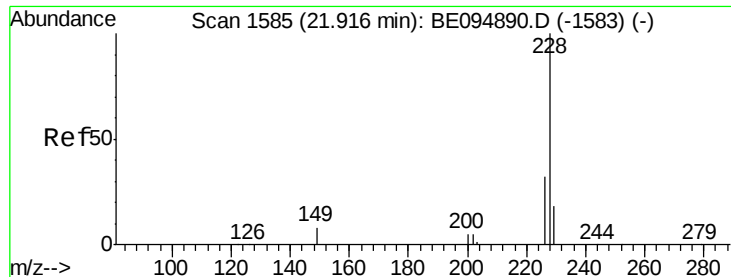


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#31

Chrysene

Concen: 0.493 ng

RT: 21.92 min Scan# 1585

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

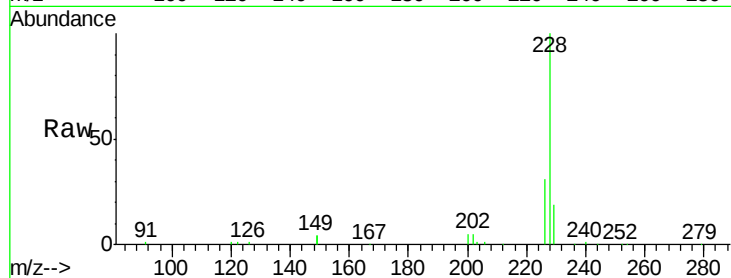
Tgt Ion: 228 Resp: 49641

Ion Ratio Lower Upper

228 100

226 31.3 40.0 60.0#

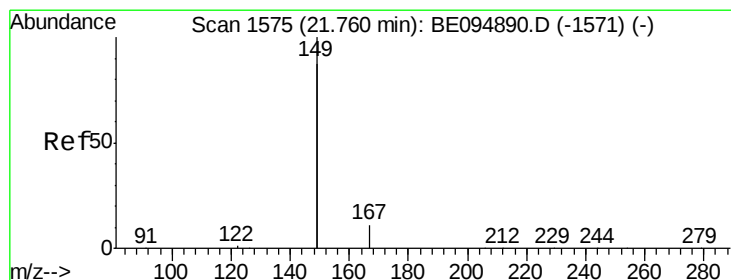
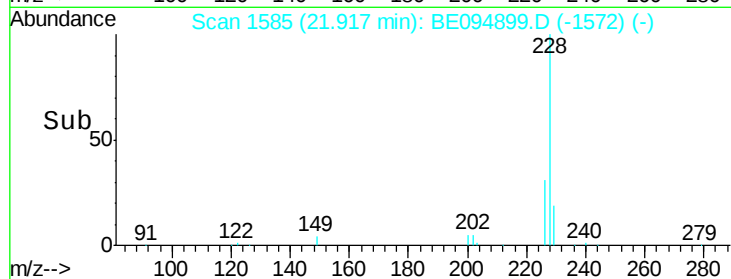
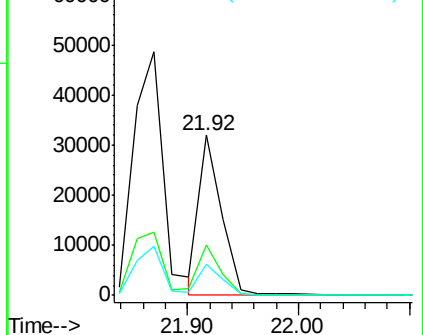
229 19.1 40.0 60.0#



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#32

Bis(2-ethylhexyl)phthalate

Concen: 0.388 ng

RT: 21.76 min Scan# 1575

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

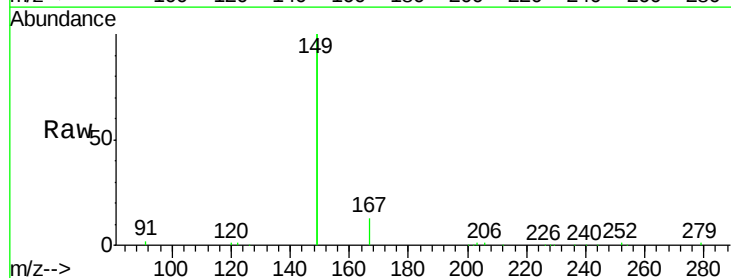
Tgt Ion: 149 Resp: 58622

Ion Ratio Lower Upper

149 100

167 6.7 5.4 8.0

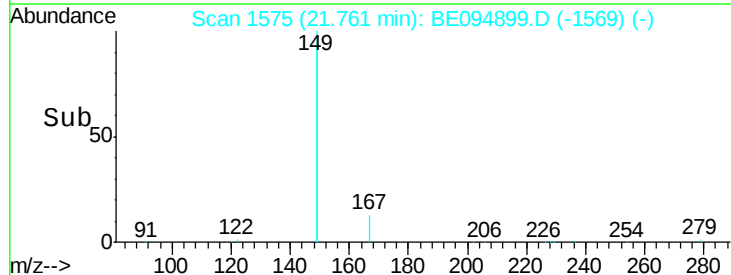
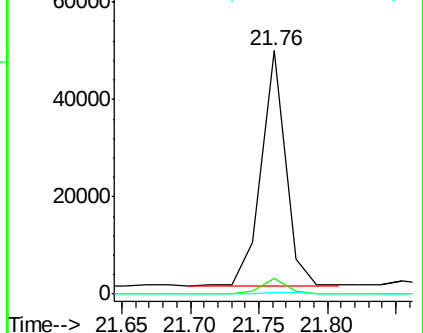
279 0.8 0.7 1.1

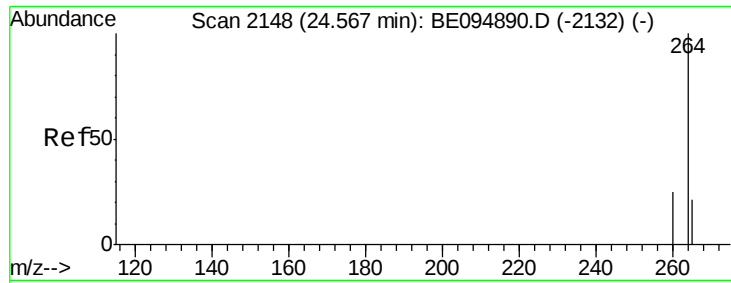


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

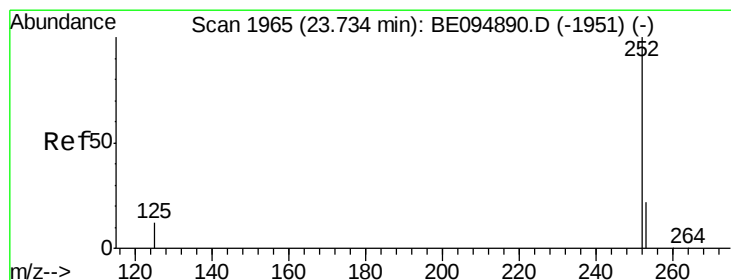
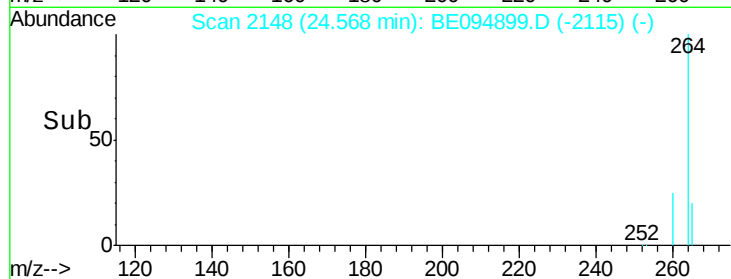
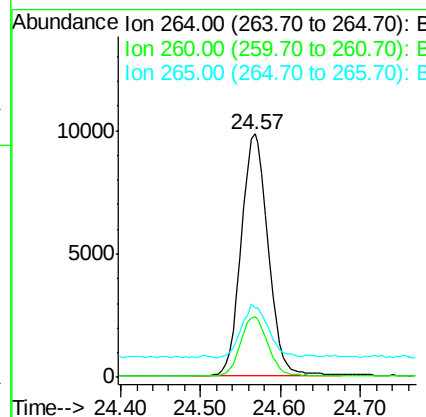
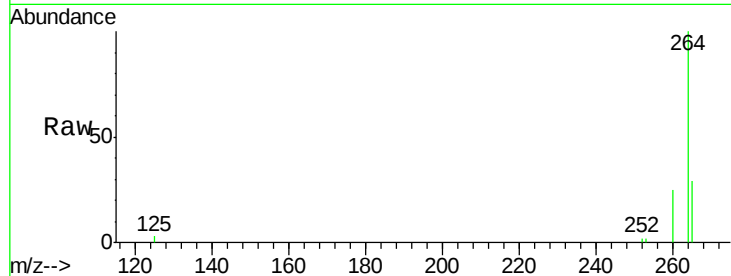




#34
Perylene-d12
Concen: 0.400 ng
RT: 24.57 min Scan# 2148
Delta R.T. 0.00 min
Lab File: BE094899.D
Acq: 1 Dec 2017 11:09

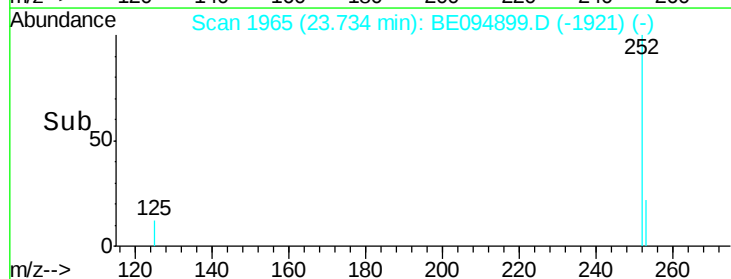
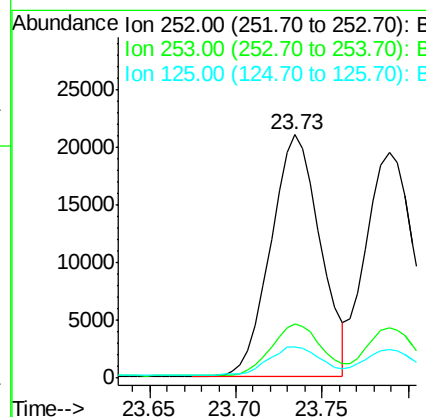
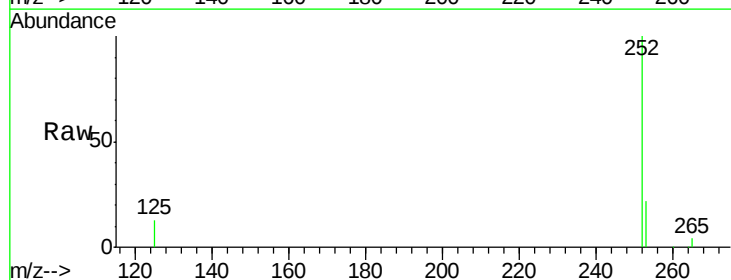
Instrument :
BNA_E
ClientSampleId :
PT-BNA-SoilDL

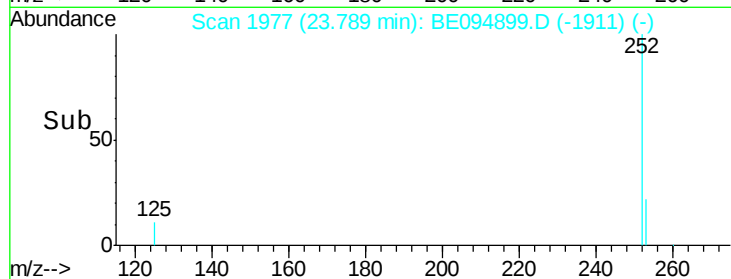
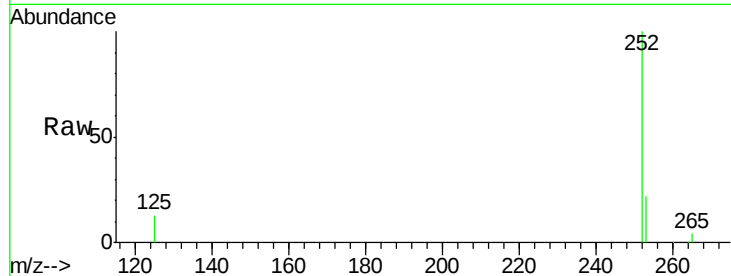
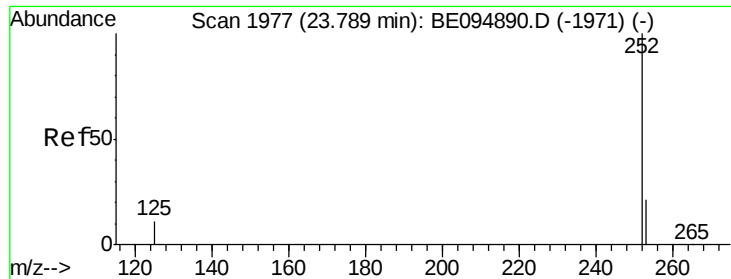
Tgt Ion: 264 Resp: 23089
Ion Ratio Lower Upper
264 100
260 25.1 20.5 30.7
265 28.8 22.8 34.2



#35
Benzo(b)fluoranthene
Concen: 0.496 ng
RT: 23.73 min Scan# 1965
Delta R.T. 0.00 min
Lab File: BE094899.D
Acq: 1 Dec 2017 11:09

Tgt Ion: 252 Resp: 41838
Ion Ratio Lower Upper
252 100
253 22.4 48.0 72.0#
125 12.9 56.0 84.0#





#36

Benzo(k)fluoranthene

Concen: 0.445 ng

RT: 23.79 min Scan# 1977

Delta R.T. 0.00 min

Lab File: BE094899.D

Acq: 1 Dec 2017 11:09

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SoilDL

Tgt Ion: 252 Resp: 38230

Ion Ratio Lower Upper

252 100

253 22.4 48.0 72.0#

125 12.8 56.0 84.0#

