

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE051519\
 Data File : BE099616.D
 Acq On : 15 May 2019 17:42
 Operator : JU/SJ
 Sample : K2551-12DL 20X
 Misc :
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SOILDL

Quant Time: May 16 12:12:13 2019
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE051419.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue May 14 19:30:50 2019
 Response via : Initial Calibration

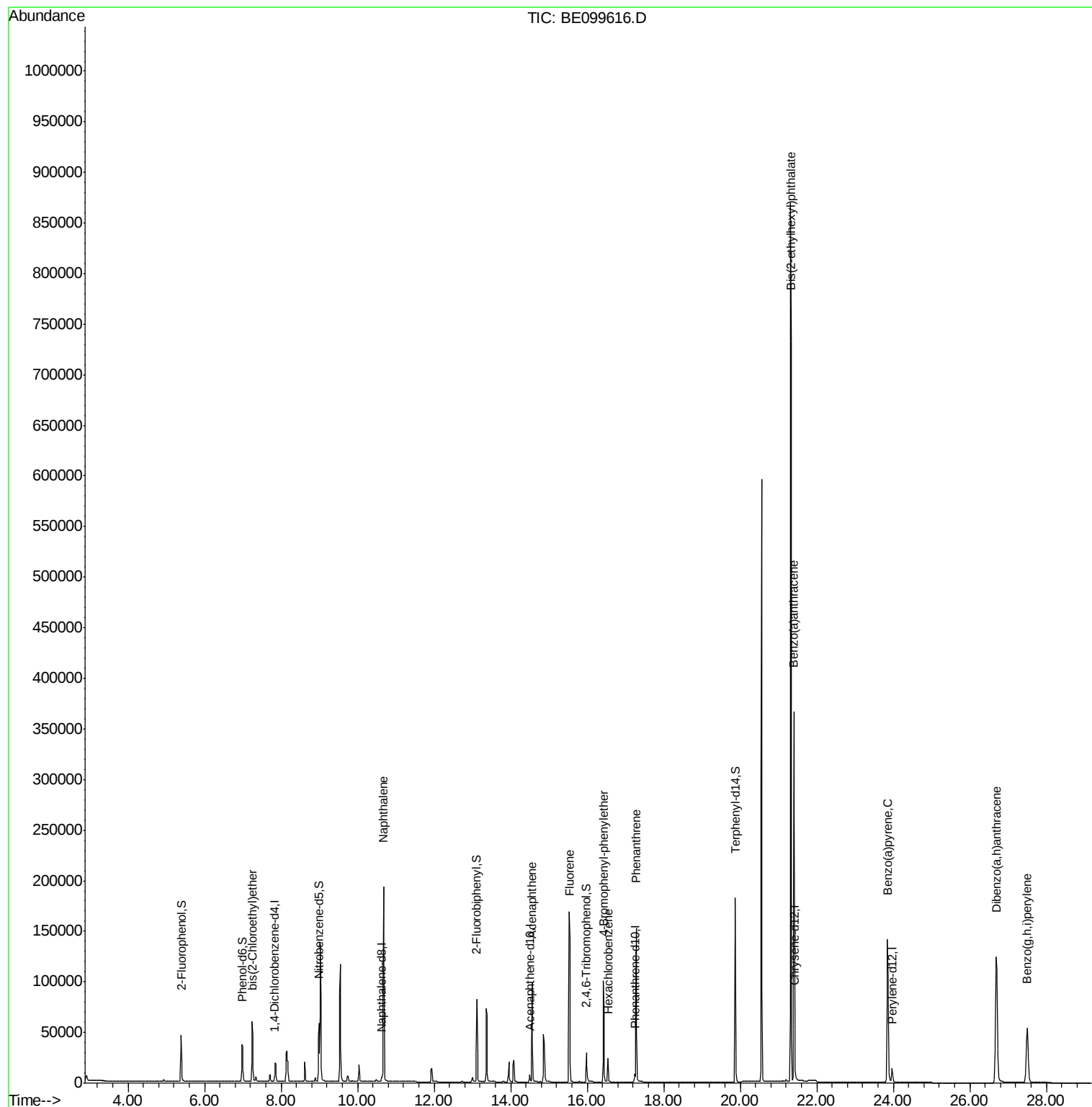
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.83	152	1853	0.40	ng	0.01
7) Naphthalene-d8	10.63	136	5734	0.40	ng	0.01
13) Acenaphthene-d10	14.50	164	3882	0.40	ng	0.02
19) Phenanthrene-d10	17.24	188	11629	0.40	ng	0.01
27) Chrysene-d12	21.43	240	17022	0.40	ng	0.01
34) Perylene-d12	23.97	264	19738	0.40	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.39	112	26939	5.12	ng	0.01
5) Phenol-d6	6.99	99	40207	6.03	ng	0.01
8) Nitrobenzene-d5	8.99	82	26266	4.73	ng	0.01
11) 2-Methylnaphthalene-d10	0.00	152	0d	0.00	ng	
14) 2,4,6-Tribromophenol	15.98	330	19280	7.26	ng	0.00
15) 2-Fluorobiphenyl	13.12	172	70942	4.75	ng	0.02
25) Fluoranthene-d10	0.00	212	0d	0.00	ng	
29) Terphenyl-d14	19.87	244	174451	5.69	ng	0.00
Target Compounds						Qvalue
6) bis(2-Chloroethyl)ether	7.25	93	24650	4.395	ng	93
9) Naphthalene	10.68	128	306525	5.024	ng	98
17) Acenaphthene	14.56	154	47270	4.569	ng	98
18) Fluorene	15.54	166	106706	7.189	ng	100
20) 4-Bromophenyl-phenylether	16.42	248	56478	8.423	ng	# 81
21) Hexachlorobenzene	16.54	284	23680	3.595	ng	99
23) Phenanthrene	17.28	178	161261	5.586	ng	100
30) Benzo(a)anthracene	21.40	228	361008	7.018	ng	99
32) Bis(2-ethylhexyl)phthalate	21.32	149	1134803	14.305	ng	100
37) Benzo(a)pyrene	23.85	252	243776	4.560	ng	# 93
38) Dibenzo(a,h)anthracene	26.69	278	253570	4.574	ng	98
39) Benzo(a,h,i)perylene	27.50	276	141035	2.530	ng	99

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

Data Path : Z:\SVOASRV\HPCHEM1\BNA E\DATA\BE051519\
Data File : BE099616.D
Acq On : 15 May 2019 17:42
Operator : JU/SJ
Sample : K2551-12DL 20X
Misc :
ALS Vial : 4 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleID :
PT-BNA-SOILDL

Quant Time: May 16 12:12:13 2019
Quant Method : Z:\SVOASRV\HPCHEM1\BNA E\METHODS\8270-SIM-BE051419.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
QLast Update : Tue May 14 19:30:50 2019
Response via : Initial Calibration



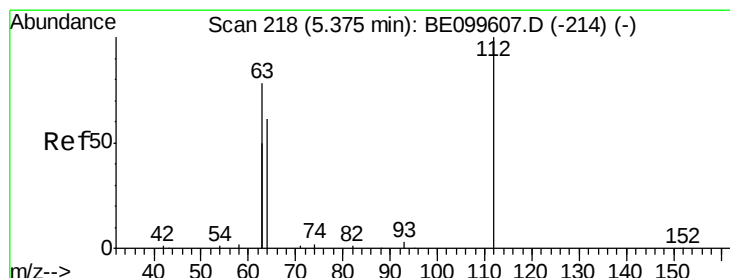
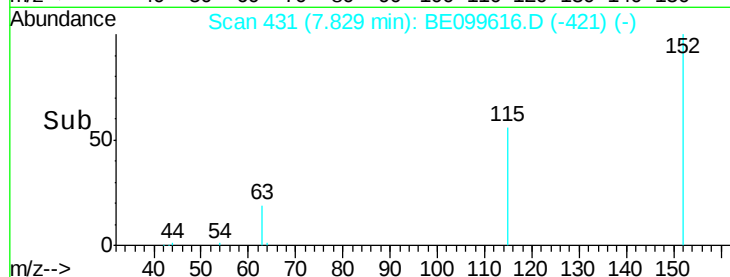
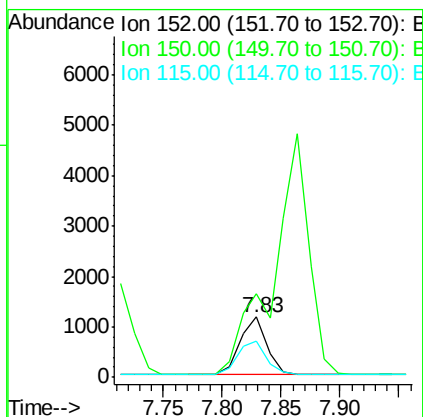
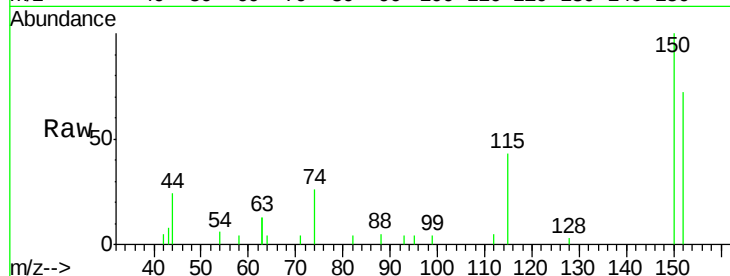


#1

1,4-Dichlorobenzene-d4
Concen: 0.400 ng
RT: 7.83 min Scan# 431
Delta R.T. 0.01 min
Lab File: BE099616.D
Acq: 15 May 2019 17:42

Instrument :
BNA_E
ClientSampleId :
PT-BNA-SOILD

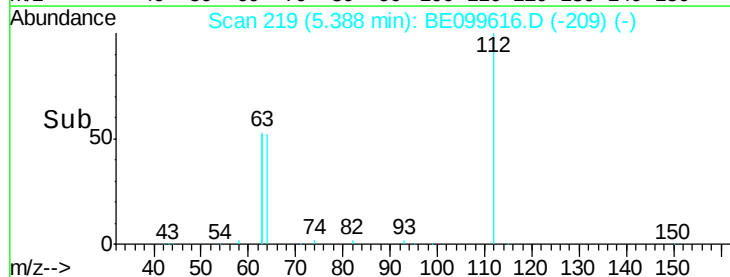
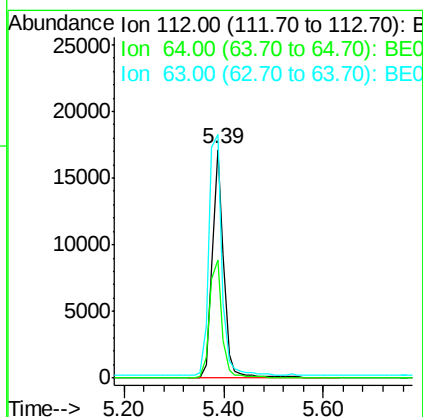
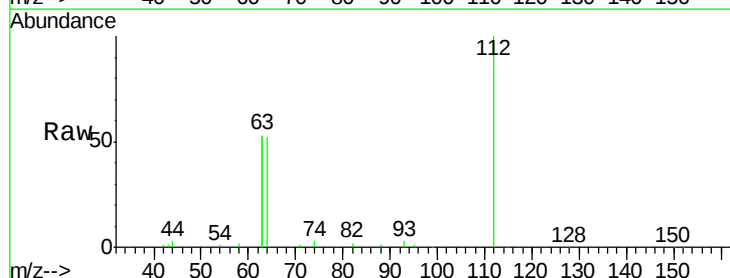
Tot Ion:152 Resp: 1853
Ion Ratio Lower Upper
152 100
150 137.9 110.1 165.1
115 59.0 46.2 69.4

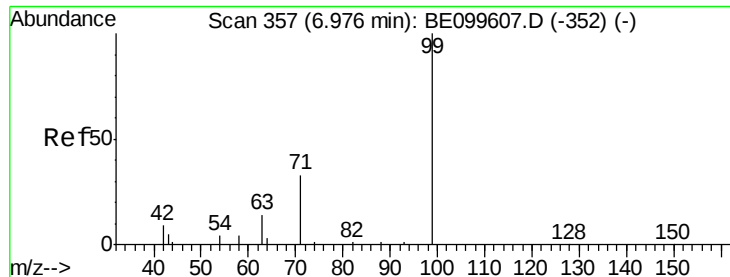


#4

2-Fluorophenol
Concen: 5.121 ng
RT: 5.39 min Scan# 219
Delta R.T. 0.01 min
Lab File: BE099616.D
Acq: 15 May 2019 17:42

Tgt Ion:112 Resp: 26939
Ion Ratio Lower Upper
112 100
64 56.1 43.7 65.5
63 120.7 94.0 141.0





#5

Phenol-d6

Concen: 6.030 ng

RT: 6.99 min Scan# 358

Delta R.T. 0.01 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILDL

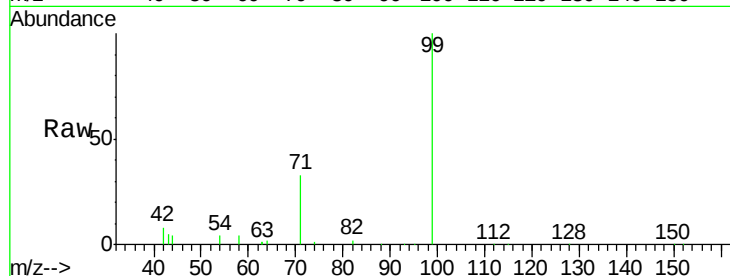
Tot Ion: 99 Resp: 40207

Ion Ratio Lower Upper

99 100

42 14.2 14.3 21.5#

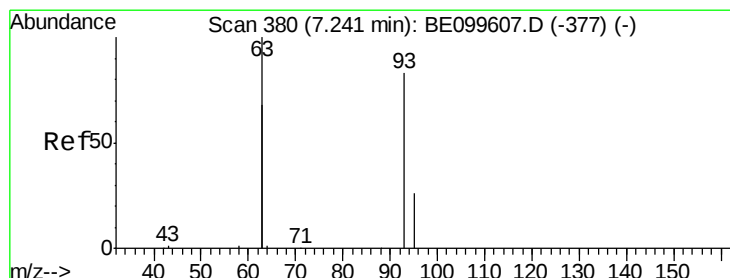
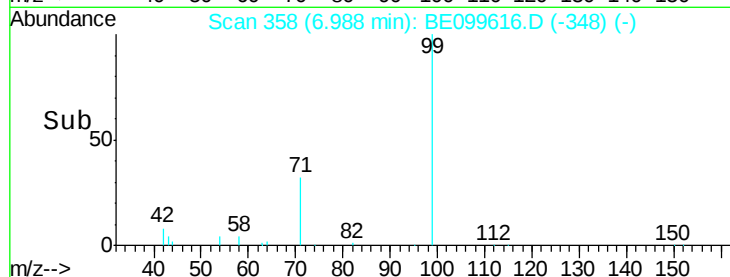
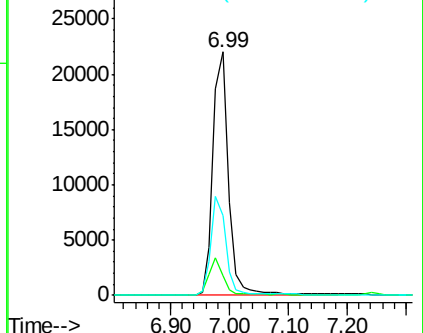
71 39.4 33.1 49.7



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 4.395 ng

RT: 7.25 min Scan# 381

Delta R.T. 0.01 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

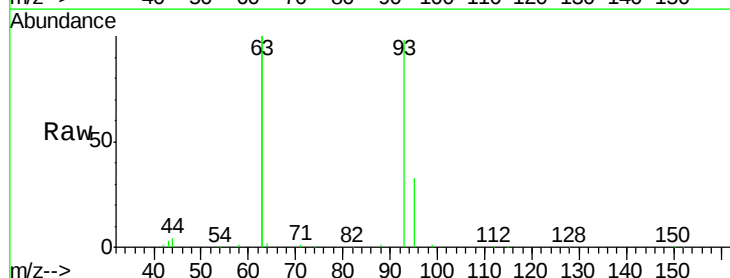
Tgt Ion: 93 Resp: 24650

Ion Ratio Lower Upper

93 100

63 265.4 201.0 301.4

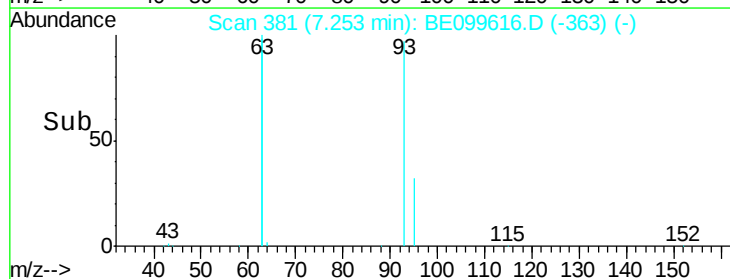
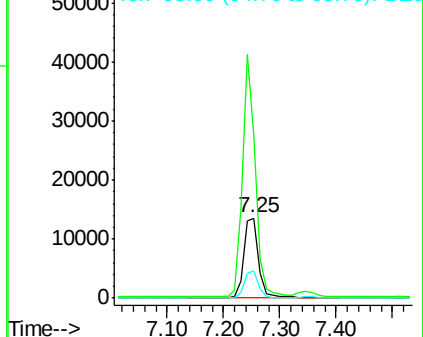
95 31.8 25.0 37.4

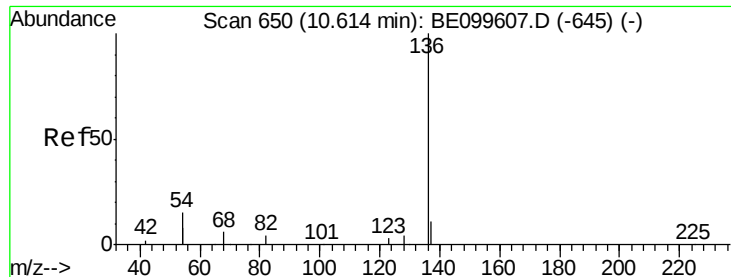


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.63 min Scan# 651

Delta R.T. 0.01 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILDL

Tot Ion:136 Resp: 5734

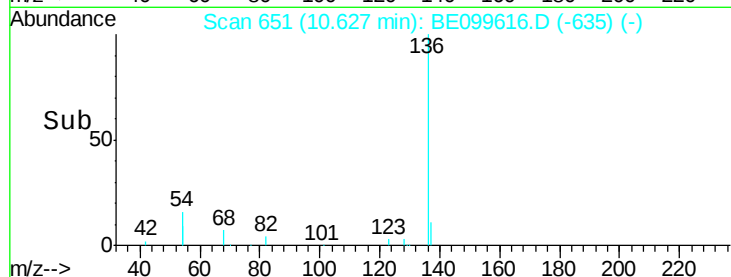
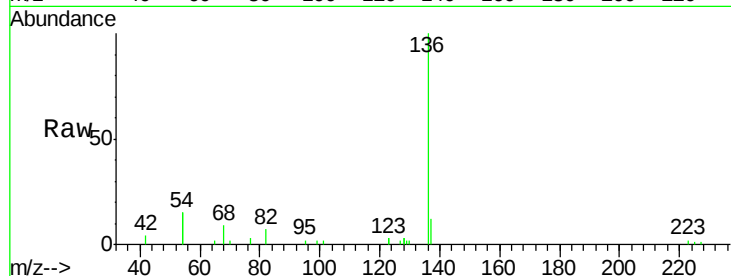
Ion Ratio Lower Upper

136 100

137 12.4 9.7 14.5

54 30.8 23.8 35.8

68 8.5 6.2 9.2

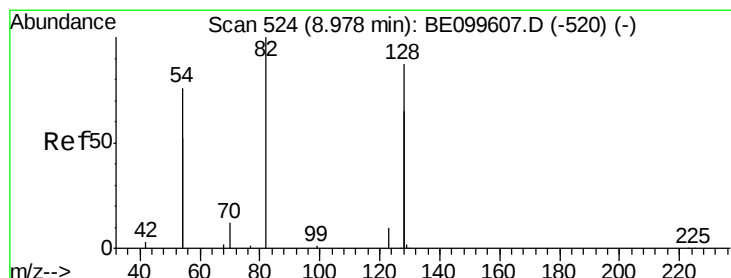
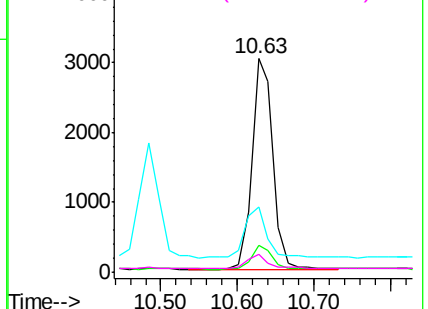


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0

Ion 68.00 (67.70 to 68.70): BE0



#8

Nitrobenzene-d5

Concen: 4.731 ng

RT: 8.99 min Scan# 525

Delta R.T. 0.01 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

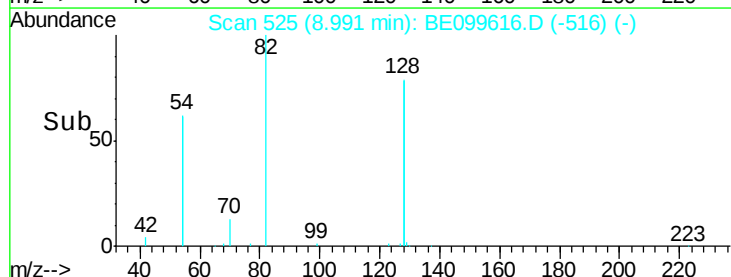
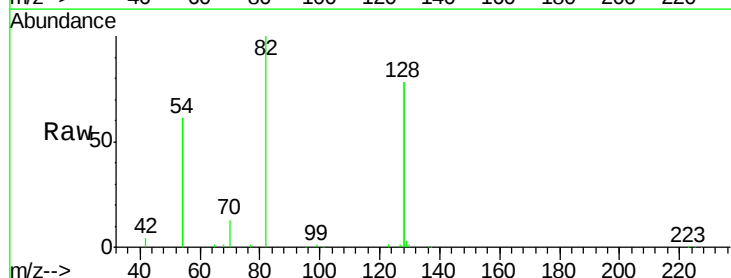
Tgt Ion: 82 Resp: 26266

Ion Ratio Lower Upper

82 100

128 155.1 131.4 197.2

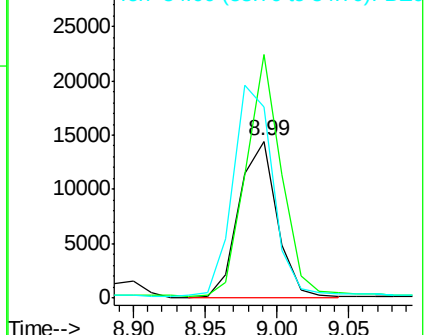
54 121.5 113.9 170.9

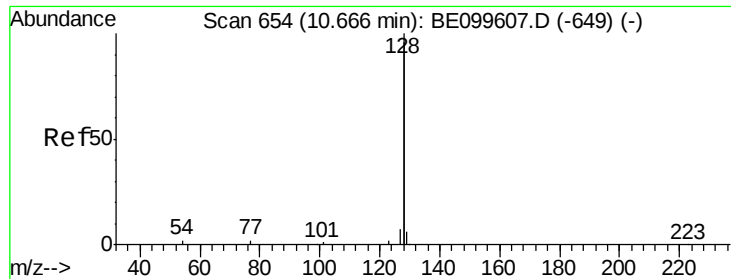


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#9

Naphthalene

Concen: 5.024 ng

RT: 10.68 min Scan# 655

Delta R.T. 0.01 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILDL

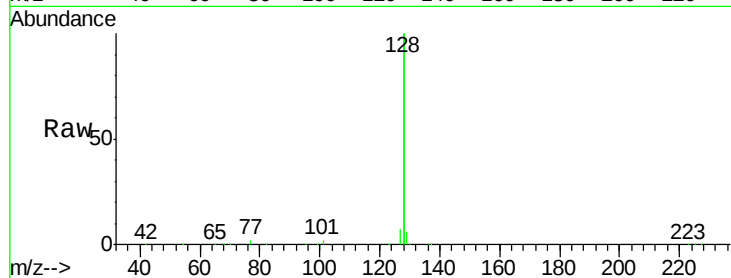
Tot Ion:128 Resp: 306525

Ion Ratio Lower Upper

128 100

129 2.8 2.6 4.0

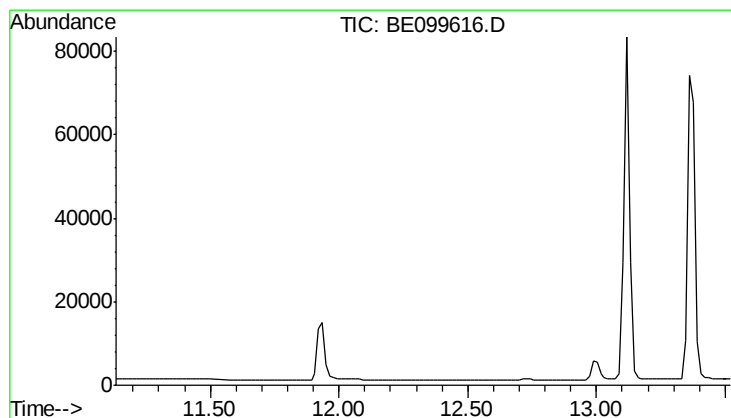
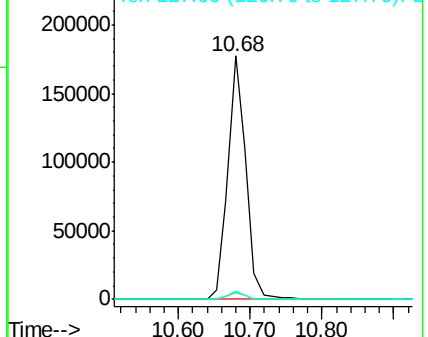
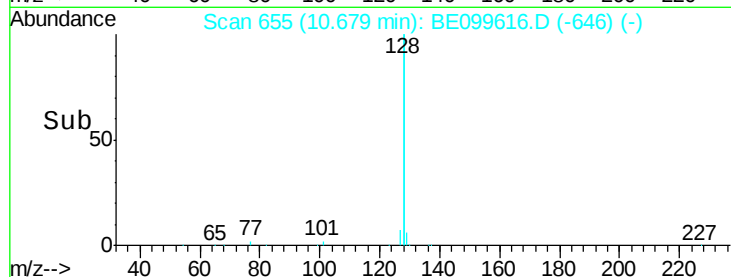
127 3.3 3.0 4.6



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#11

2-Methylnaphthalene-d10

Concen: 0.000 ng

Expected RT: 12.22 min

Lab File: BE099616.D

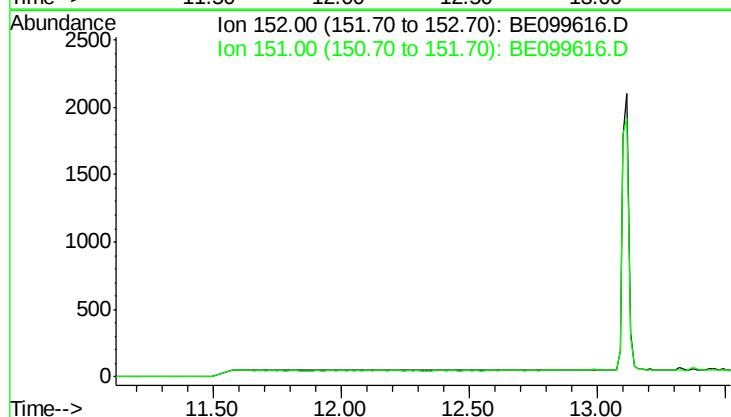
Acq: 15 May 2019 17:42

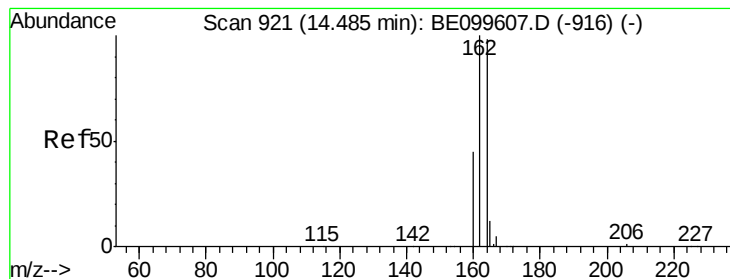
Tgt Ion: 152

Sig Exp Ratio

152 100

151 19.1





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.50 min Scan# 922

Delta R.T. 0.02 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILD

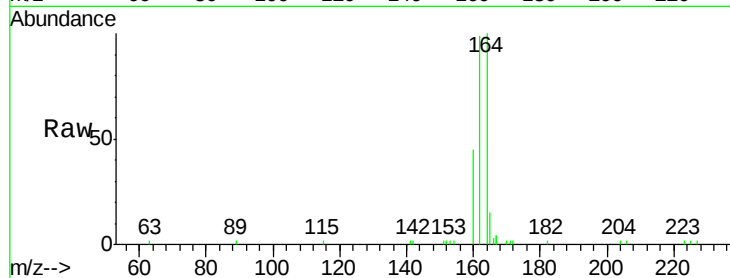
Tot Ion:164 Resp: 3882

Ion Ratio Lower Upper

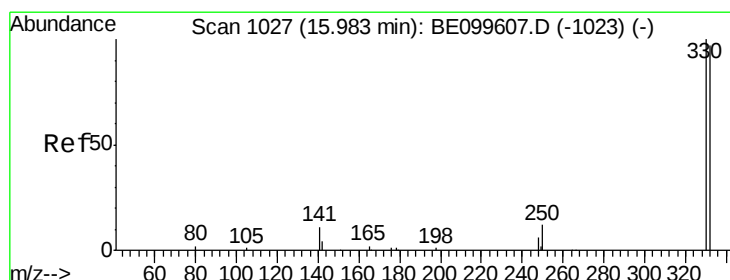
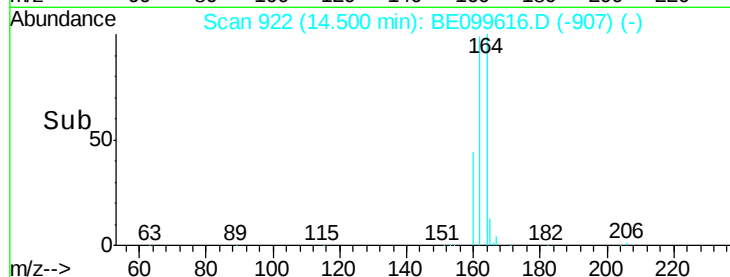
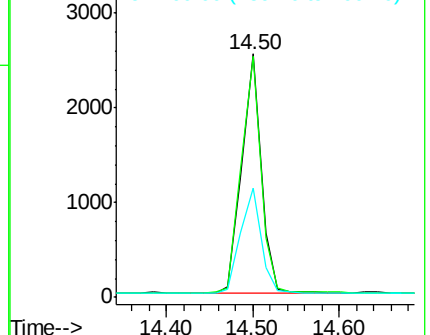
164 100

162 99.1 81.4 122.0

160 44.7 37.4 56.2



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: 7.260 ng

RT: 15.98 min Scan# 1027

Delta R.T. -0.00 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

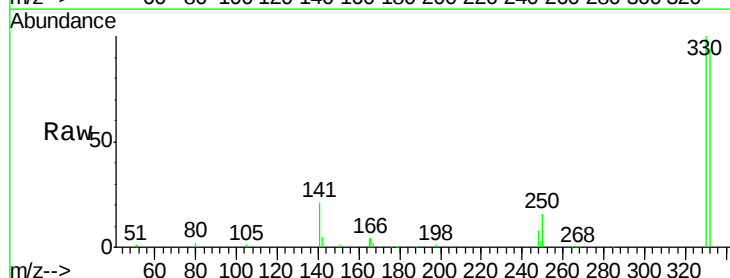
Tgt Ion:330 Resp: 19280

Ion Ratio Lower Upper

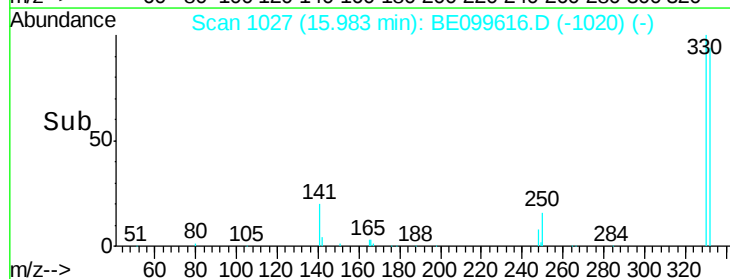
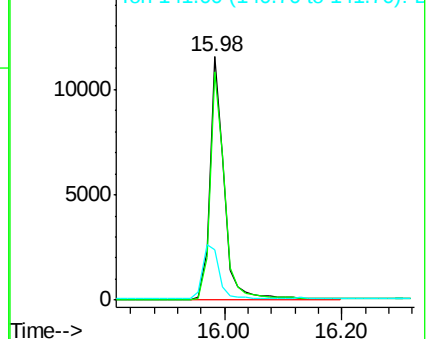
330 100

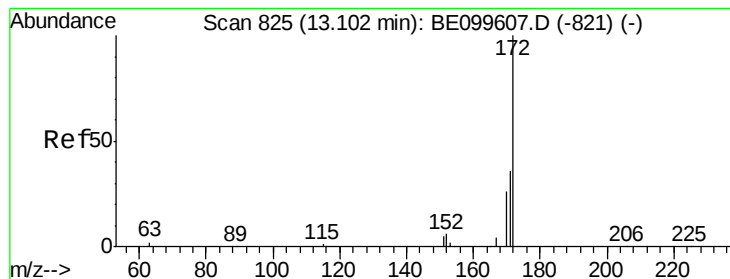
332 96.3 73.8 110.8

141 26.2 21.0 31.6



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

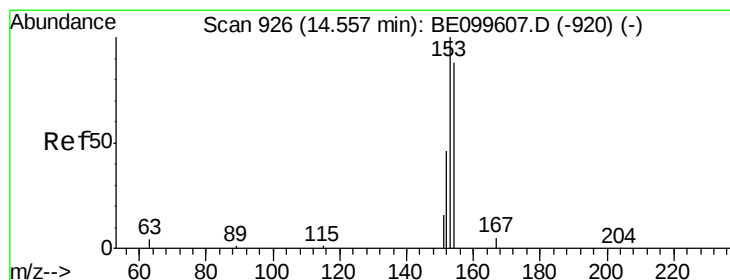
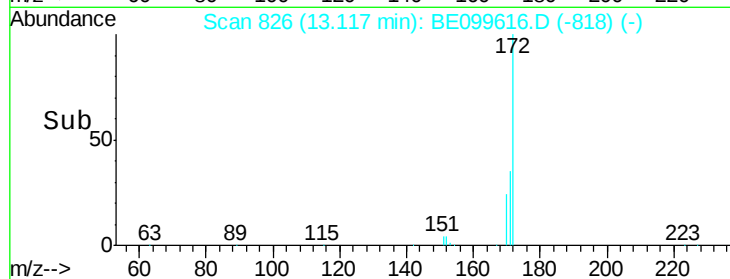
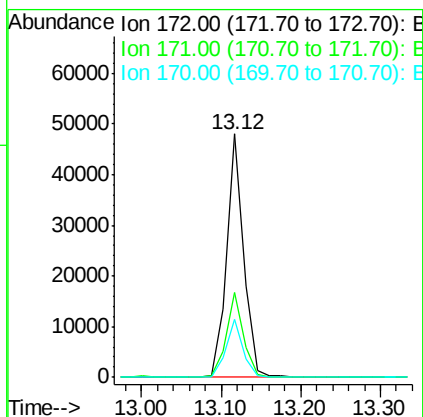
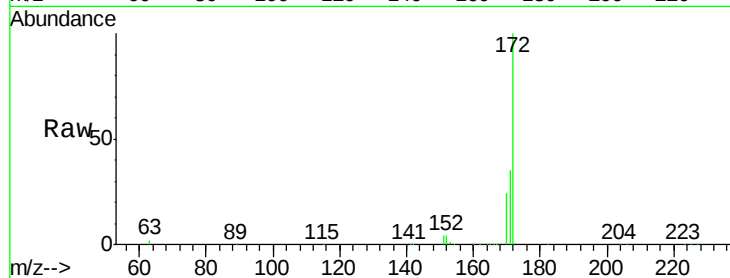




#15
2-Fluorobiphenyl
Concen: 4.746 ng
RT: 13.12 min Scan# 826
Delta R.T. 0.02 min
Lab File: BE099616.D
Acq: 15 May 2019 17:42

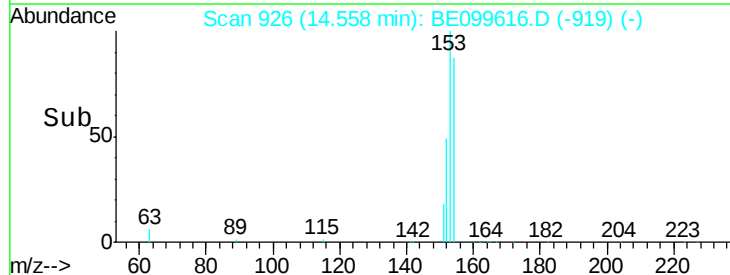
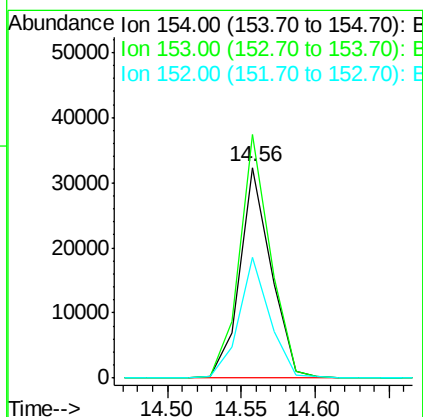
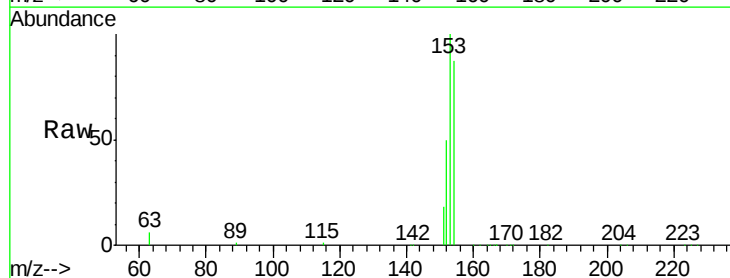
Instrument :
BNA_E
ClientSampleId :
PT-BNA-SOILD

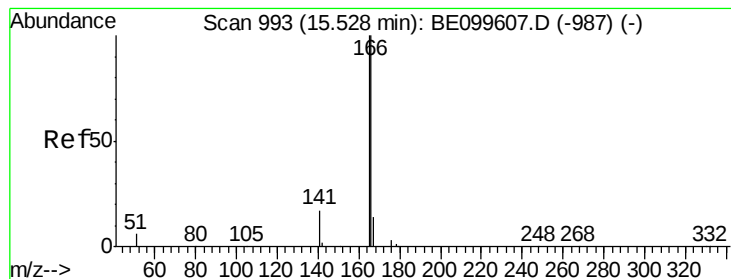
Tot Ion:172 Resp: 70942
Ion Ratio Lower Upper
172 100
171 35.0 29.4 44.2
170 24.0 21.5 32.3



#17
Acenaphthene
Concen: 4.569 ng
RT: 14.56 min Scan# 926
Delta R.T. 0.00 min
Lab File: BE099616.D
Acq: 15 May 2019 17:42

Tgt Ion:154 Resp: 47270
Ion Ratio Lower Upper
154 100
153 114.7 94.1 141.1
152 56.7 46.5 69.7





#18

Fluorene

Concen: 7.189 ng

RT: 15.54 min Scan# 994

Delta R.T. 0.01 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILDL

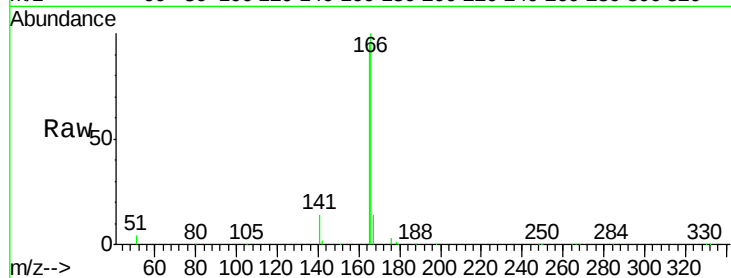
Tot Ion:166 Resp: 106706

Ion Ratio Lower Upper

166 100

165 99.5 79.8 119.8

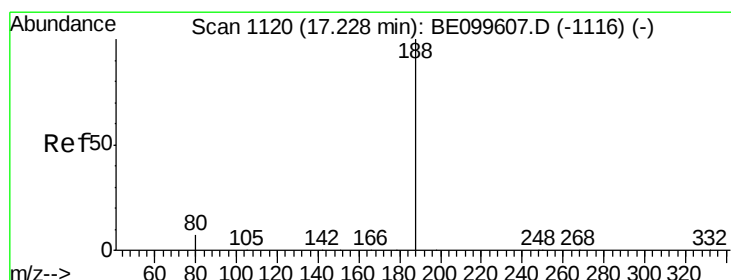
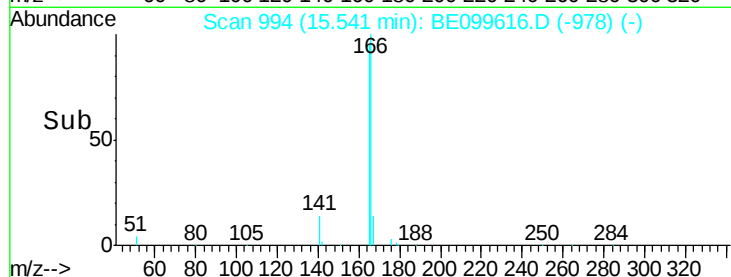
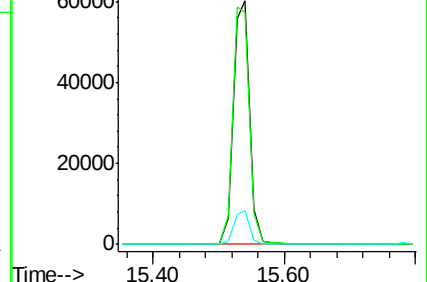
167 13.6 11.2 16.8



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: 17.24 min Scan# 1121

Delta R.T. 0.01 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

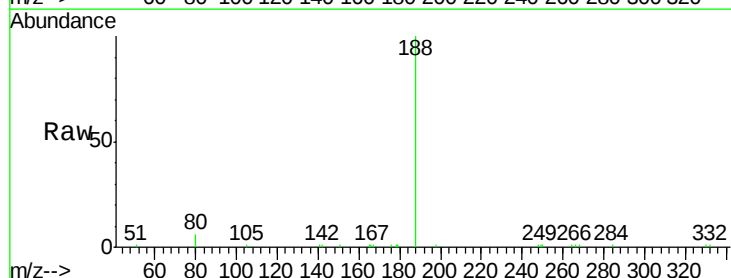
Tgt Ion:188 Resp: 11629

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

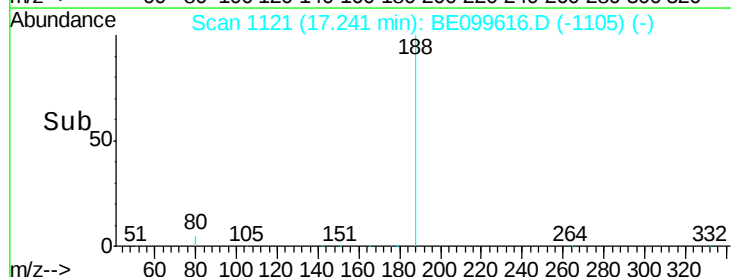
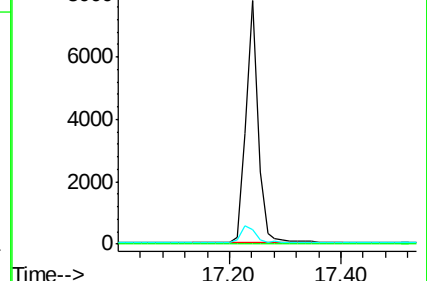
80 5.8 6.4 9.6#

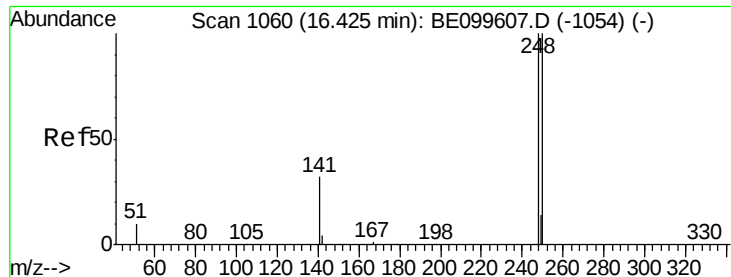


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

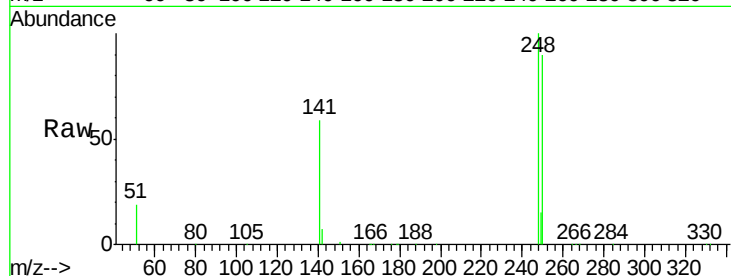




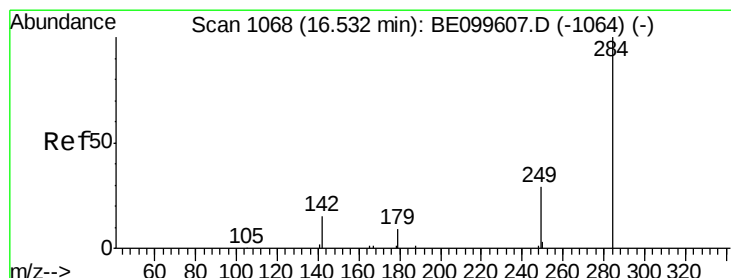
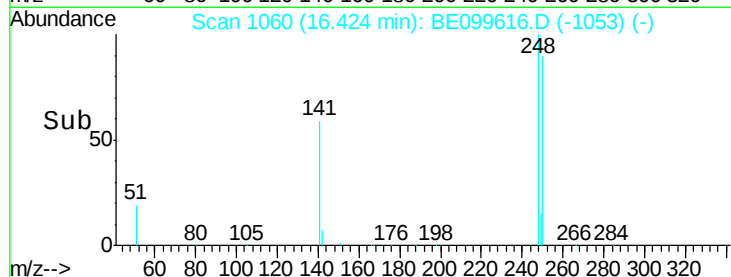
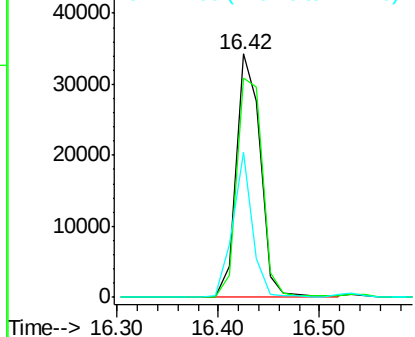
#20
4-Bromophenyl-phenylether
Concen: 8.423 ng
RT: 16.42 min Scan# 1060
Delta R.T. -0.00 min
Lab File: BE099616.D
Acq: 15 May 2019 17:42

Instrument :
BNA_E
ClientSampleId :
PT-BNA-SOILD

Tot Ion:248 Resp: 56478
Ion Ratio Lower Upper
248 100
250 90.1 80.4 120.6
141 59.4 27.8 41.8#

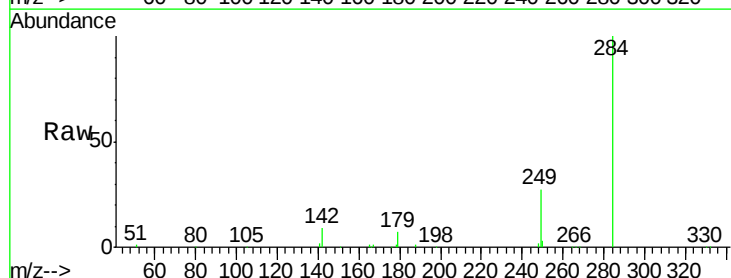


Abundance Ion 248.00 (247.70 to 248.70): E
Ion 250.00 (249.70 to 250.70): E
Ion 141.00 (140.70 to 141.70): E

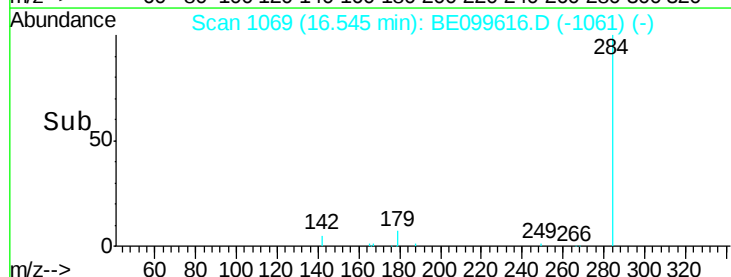
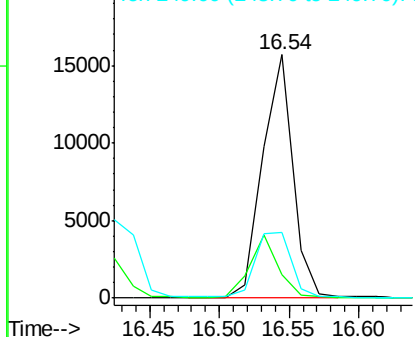


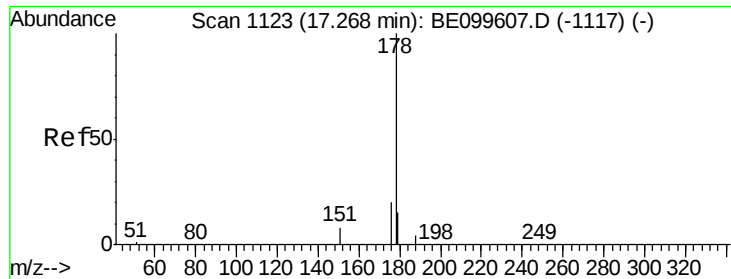
#21
Hexachlorobenzene
Concen: 3.595 ng
RT: 16.54 min Scan# 1069
Delta R.T. 0.01 min
Lab File: BE099616.D
Acq: 15 May 2019 17:42

Tgt Ion:284 Resp: 23680
Ion Ratio Lower Upper
284 100
142 23.5 19.4 29.2
249 31.4 24.6 37.0



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





#23

Phenanthrene

Concen: 5.586 ng

RT: 17.28 min Scan# 1124

Delta R.T. 0.01 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILDL

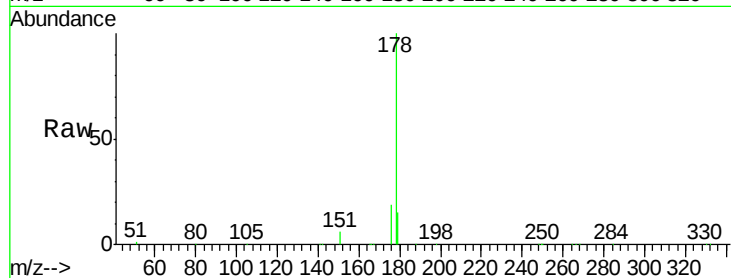
Tot Ion:178 Resp: 161261

Ion Ratio Lower Upper

178 100

176 19.5 15.7 23.5

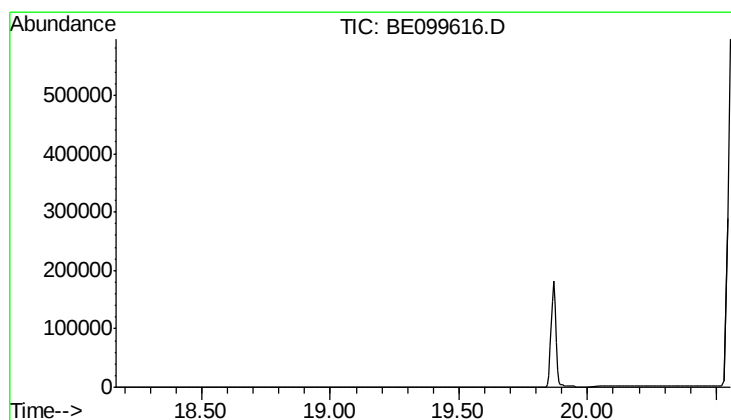
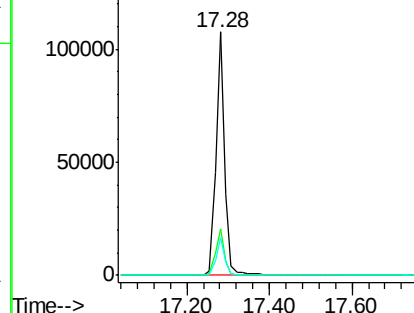
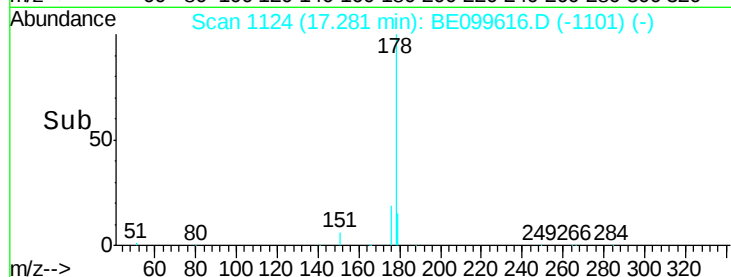
179 15.4 12.2 18.2



Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E



#25

Fluoranthene-d10

Concen: 0.000 ng

Expected RT: 19.27 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

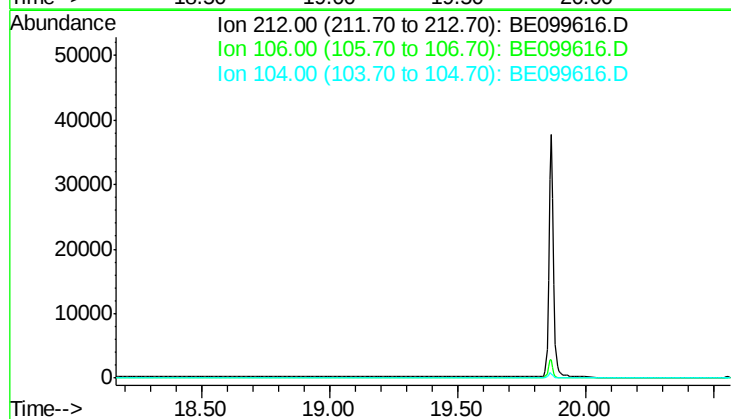
Tgt Ion: 212

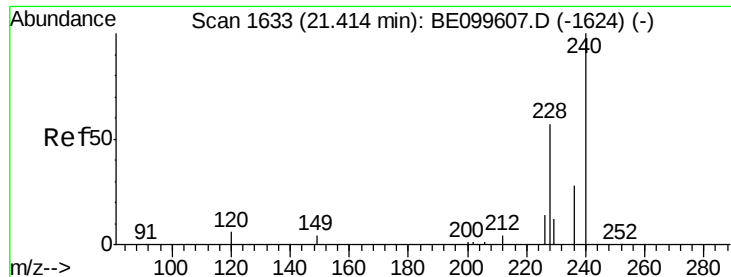
Sig Exp Ratio

212 100

106 1.8

104 1.1

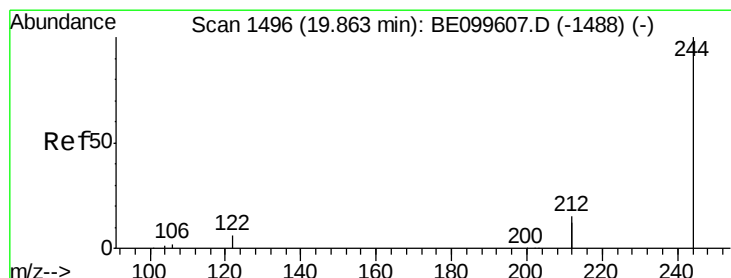
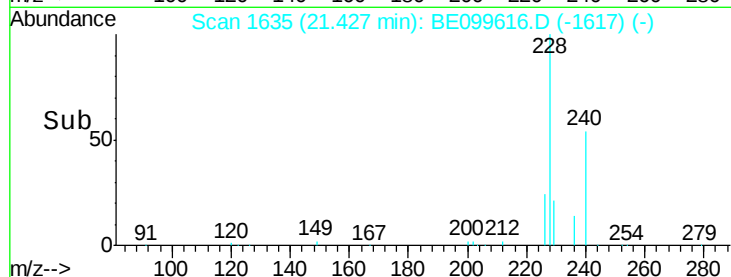
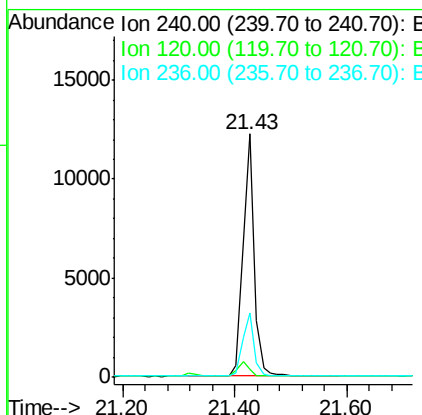
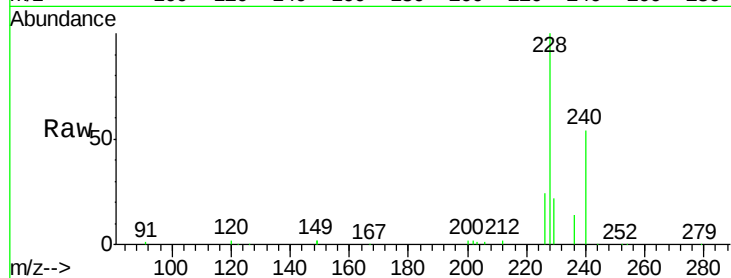




#27
 Chrysene-d12
 Concen: 0.400 ng
 RT: 21.43 min Scan# 1635
 Delta R.T. 0.01 min
 Lab File: BE099616.D
 Acq: 15 May 2019 17:42

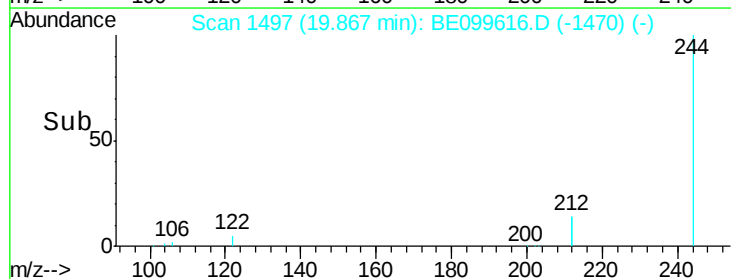
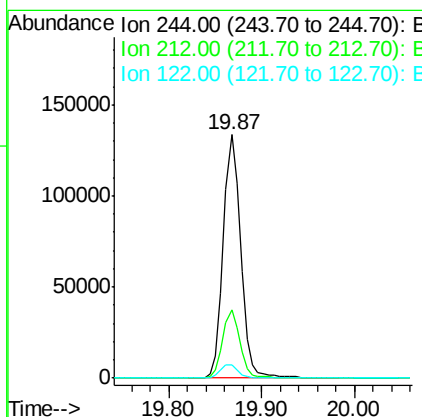
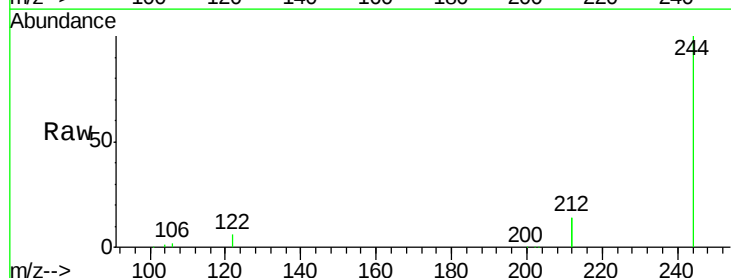
Instrument :
 BNA_E
 ClientSampleId :
 PT-BNA-SOILD

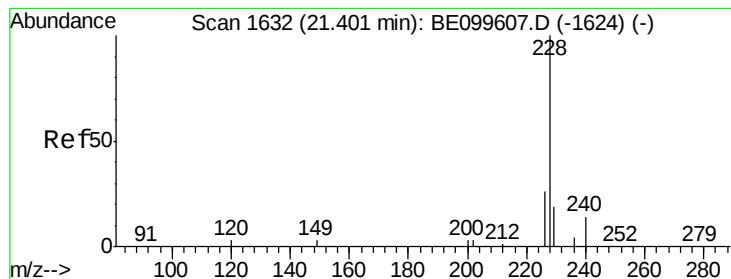
Tot Ion:240 Resp: 17022
 Ion Ratio Lower Upper
 240 100
 120 3.1 5.7 8.5#
 236 26.2 22.8 34.2



#29
 Terphenyl-d14
 Concen: 5.694 ng
 RT: 19.87 min Scan# 1497
 Delta R.T. 0.00 min
 Lab File: BE099616.D
 Acq: 15 May 2019 17:42

Tgt Ion:244 Resp: 174451
 Ion Ratio Lower Upper
 244 100
 212 28.2 23.8 35.6
 122 5.5 5.0 7.6





#30

Benzo(a)anthracene

Concen: 7.018 ng

RT: 21.40 min Scan# 1633

Delta R.T. 0.00 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILDL

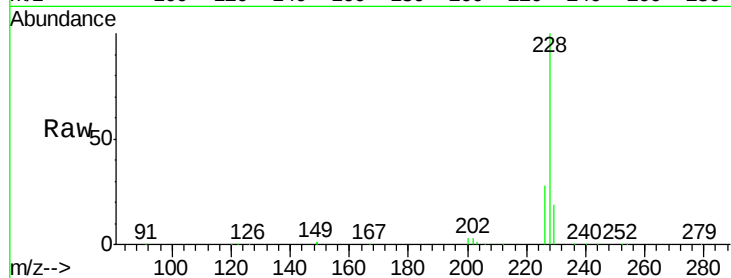
Tot Ion:228 Resp: 361008

Ion Ratio Lower Upper

228 100

226 27.7 21.4 32.2

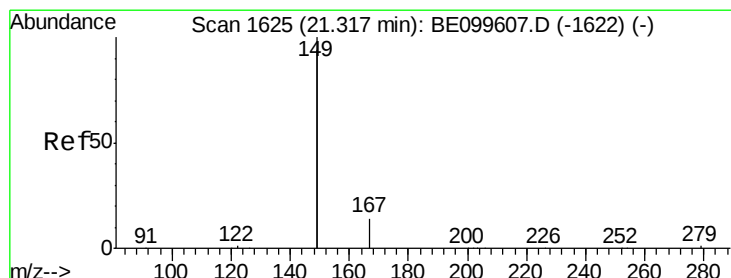
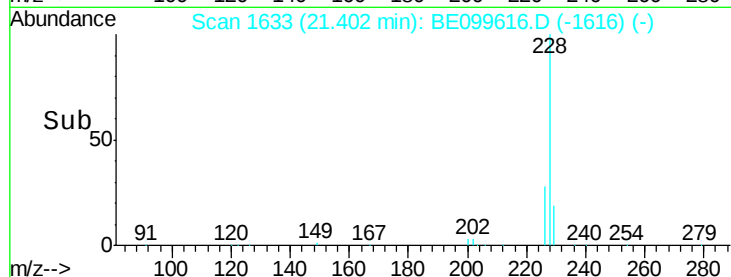
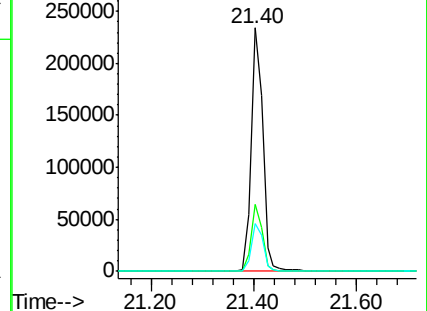
229 19.4 15.8 23.8



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: 14.305 ng

RT: 21.32 min Scan# 1626

Delta R.T. 0.00 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

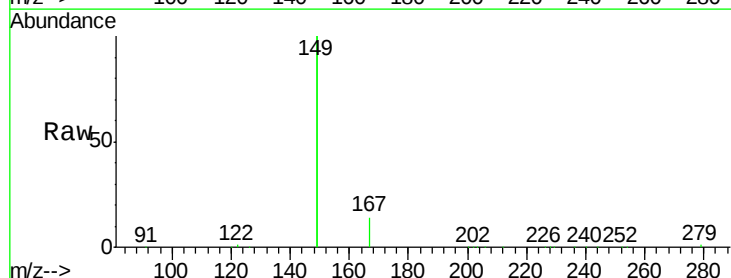
Tgt Ion:149 Resp: 1134803

Ion Ratio Lower Upper

149 100

167 7.5 6.0 9.0

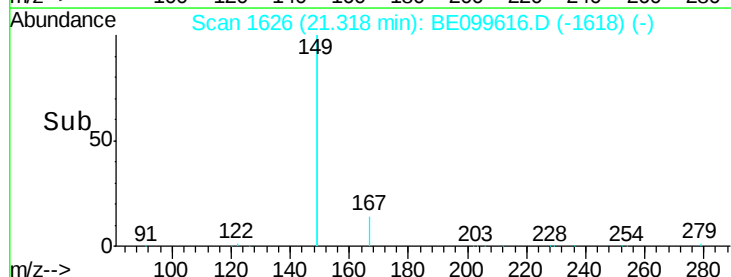
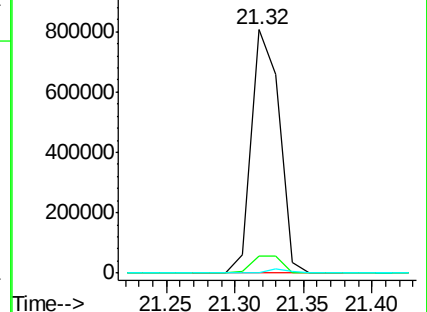
279 1.5 1.1 1.7

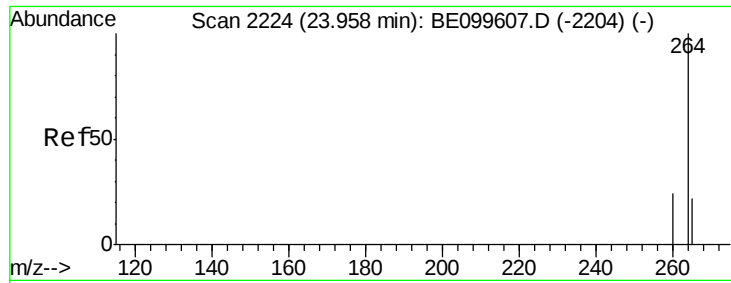


Abundance Ion 149.00 (148.70 to 149.70): E

Ion 167.00 (166.70 to 167.70): E

Ion 279.00 (278.70 to 279.70): E

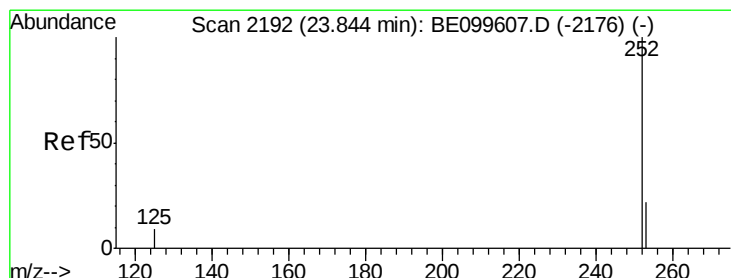
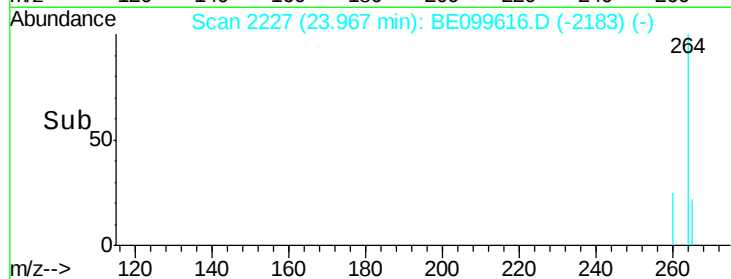
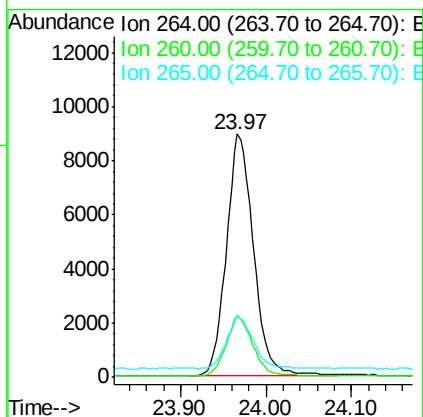
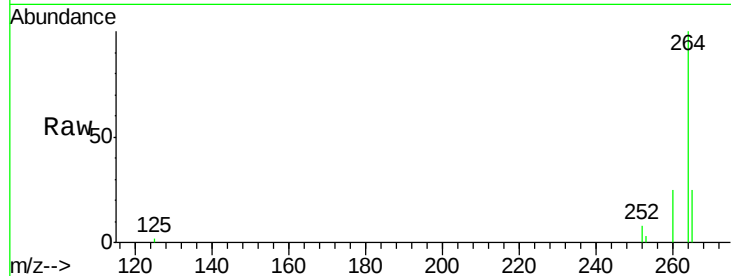




#34
Pervlene-d12
Concen: 0.400 ng
RT: 23.97 min Scan# 2227
Delta R.T. 0.01 min
Lab File: BE099616.D
Acq: 15 May 2019 17:42

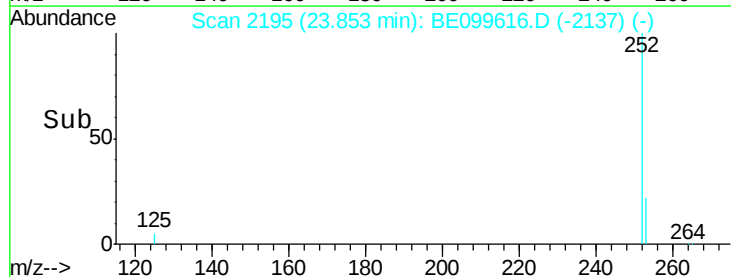
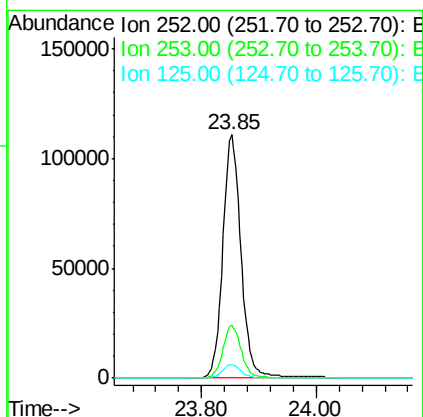
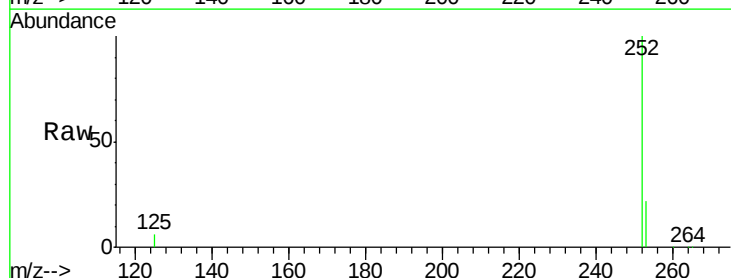
Instrument :
BNA_E
ClientSampleId :
PT-BNA-SOILD

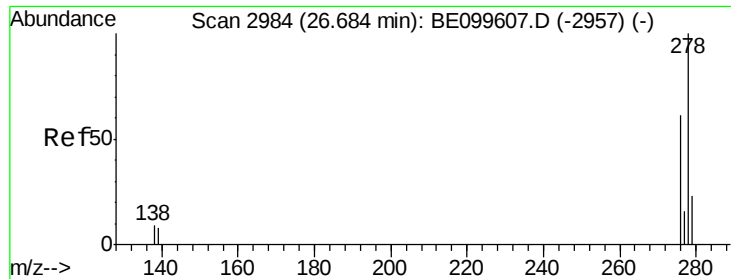
Tot Ion:264 Resp: 19738
Ion Ratio Lower Upper
264 100
260 25.2 19.7 29.5
265 25.3 21.2 31.8



#37
Benzo(a)pyrene
Concen: 4.560 ng
RT: 23.85 min Scan# 2195
Delta R.T. 0.01 min
Lab File: BE099616.D
Acq: 15 May 2019 17:42

Tgt Ion:252 Resp: 243776
Ion Ratio Lower Upper
252 100
253 22.0 19.0 28.6
125 5.6 8.8 13.2#





#38

Dibenzo(a,h)anthracene

Concen: 4.574 ng

RT: 26.69 min Scan# 2988

Delta R.T. 0.01 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

Instrument :

BNA_E

ClientSampleId :

PT-BNA-SOILDL

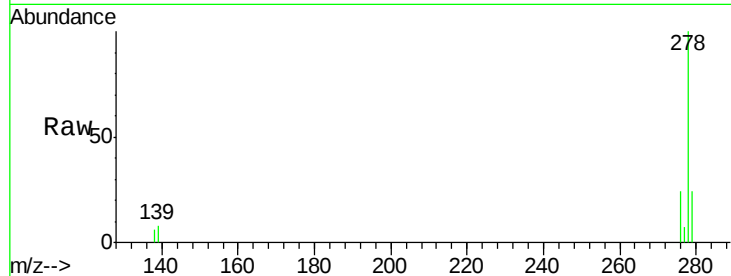
Tot Ion:278 Resp: 253570

Ion Ratio Lower Upper

278 100

139 8.0 7.9 11.9

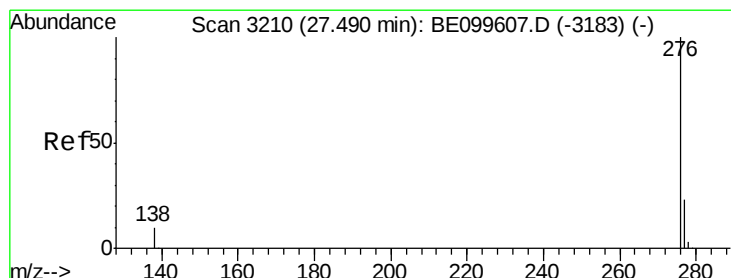
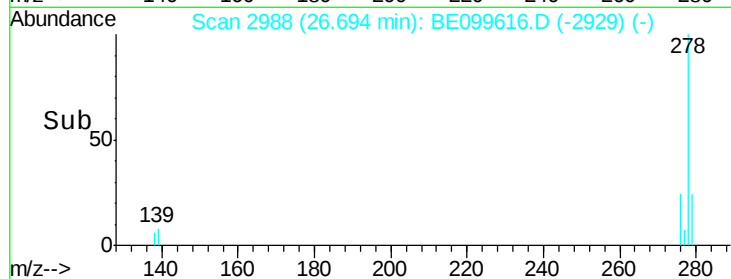
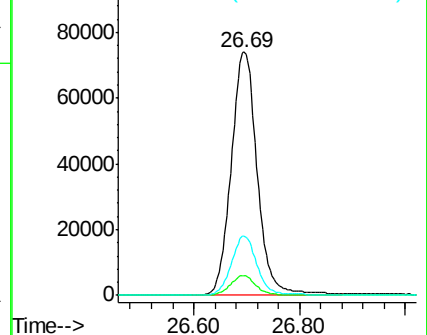
279 24.3 19.5 29.3



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E



#39

Benzo(g,h,i)perylene

Concen: 2.530 ng

RT: 27.50 min Scan# 3214

Delta R.T. 0.01 min

Lab File: BE099616.D

Acq: 15 May 2019 17:42

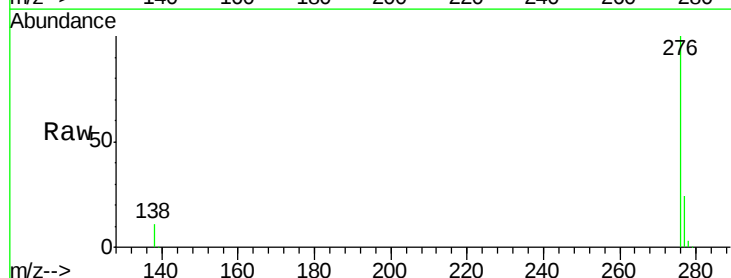
Tgt Ion:276 Resp: 141035

Ion Ratio Lower Upper

276 100

277 23.7 19.3 28.9

138 10.7 9.1 13.7



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

