

Data Path : Z:\HPCHEM1\BNA E\DATA\BE033116\
 Data File : BE091567.D
 Acq On : 30 Mar 2016 22:37
 Operator : UM/SJ
 Sample : H1953-02
 Misc :
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 31 00:52:26 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE033016.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Wed Mar 30 18:45:59 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.82	152	37393	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	178278	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	109996	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	273224	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	394191	5.00	ng	-0.02
28) Perylene-d12	23.76	264	321319	5.00	ng	-0.03

System Monitoring Compounds						
4) 2-Fluorophenol	5.41	112	26971	2.75	ng	-0.02
5) Phenol-d6	6.97	99	24696	1.87	ng	-0.02
7) Nitrobenzene-d5	8.96	82	42235	3.53	ng	-0.02
11) 2,4,6-Tribromophenol	15.90	330	35038	7.19	ng	-0.02
12) 2-Fluorobiphenyl	13.05	172	121430	3.88	ng	-0.02
24) Terphenyl-d14	19.76	244	273597	5.47	ng	-0.02

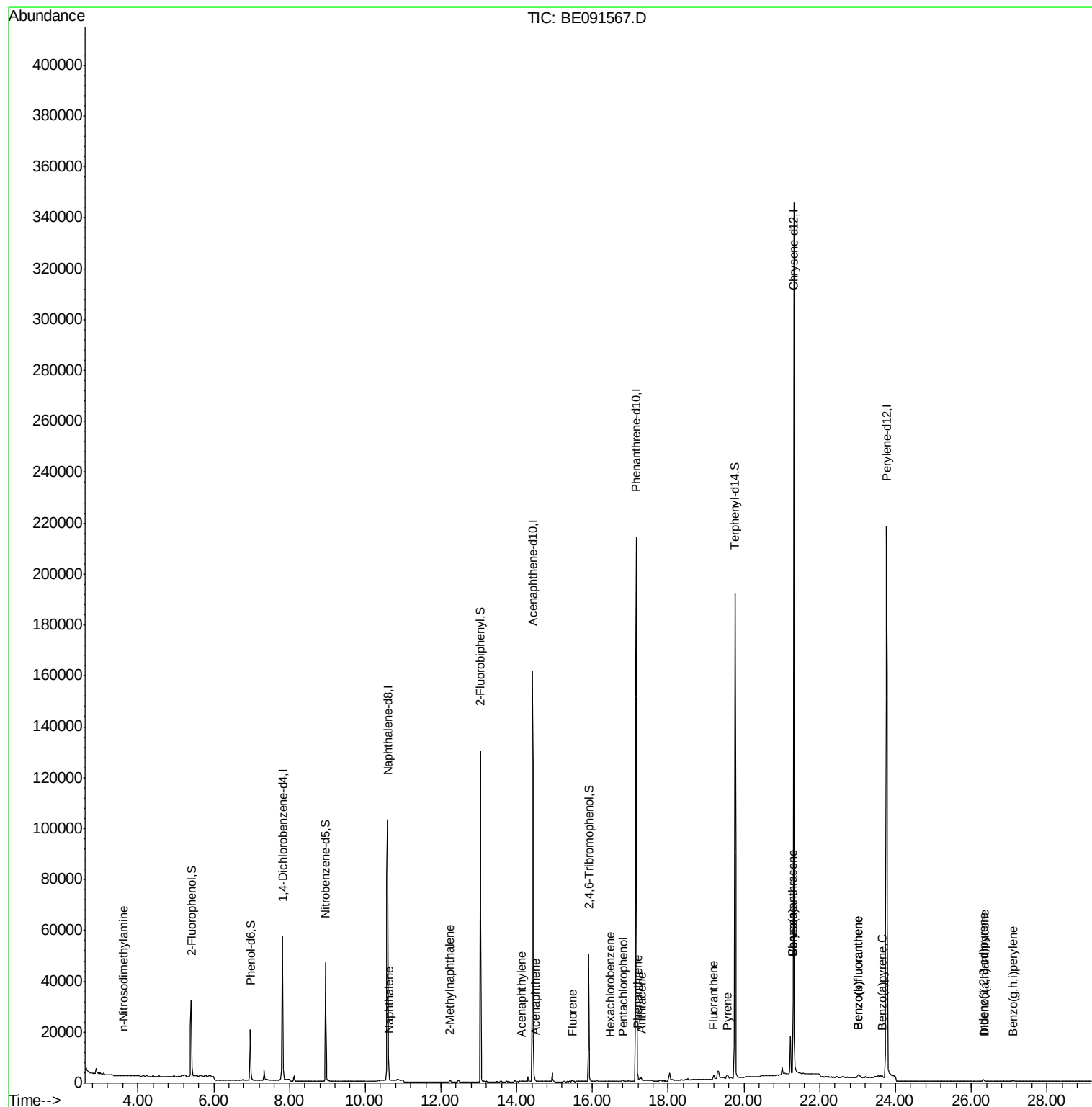
Target Compounds						Qvalue
3) n-Nitrosodimethylamine	3.63	42	80	0.01	ng	# 4
8) Naphthalene	10.63	128	911	0.02	ng	# 73
9) 2-Methylnaphthalene	12.24	142	644	0.03	ng	# 74
13) Acenaphthylene	14.14	152	635	0.01	ng	# 91
14) Acenaphthene	14.49	154	128	0.00	ng	# 32
15) Fluorene	15.47	166	397	0.01	ng	# 91
17) Hexachlorobenzene	16.46	284	23	0.00	ng	# 1
18) Pentachlorophenol	16.81	266	384	0.07	ng	# 85
19) Phenanthrene	17.19	178	2444	0.04	ng	# 88
20) Anthracene	17.29	178	1493	0.03	ng	# 98
21) Fluoranthene	19.21	202	1979	0.03	ng	# 90
23) Pyrene	19.57	202	1615	0.02	ng	# 93
25) Benzo(a)anthracene	21.29	228	3462	0.04	ng	# 66
26) Chrysene	21.29	228	3478	0.04	ng	# 64
27) Indeno(1,2,3-cd)pyrene	26.32	276	1047	0.01	ng	# 92
29) Benzo(b)fluoranthene	23.01	252	2720	0.03	ng	# 21
30) Benzo(k)fluoranthene	23.01	252	2720	0.04	ng	# 26
31) Benzo(a)pyrene	23.65	252	1038	0.01	ng	# 1
32) Dibenzo(a,h)anthracene	26.35	278	356	0.01	ng	# 1
33) Benzo(a,h,i)perylene	27.11	276	993	0.01	ng	# 45

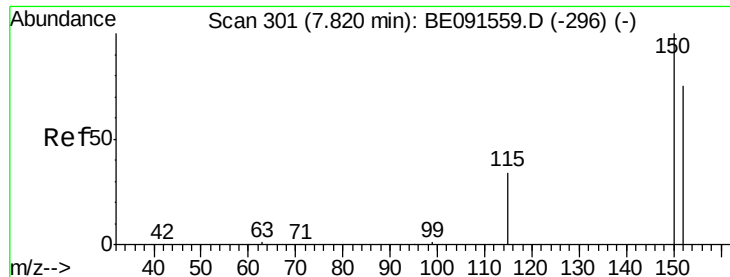
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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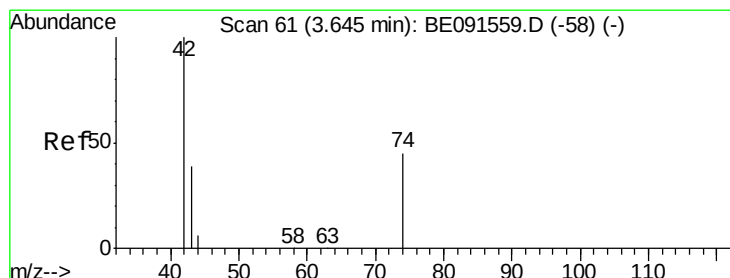
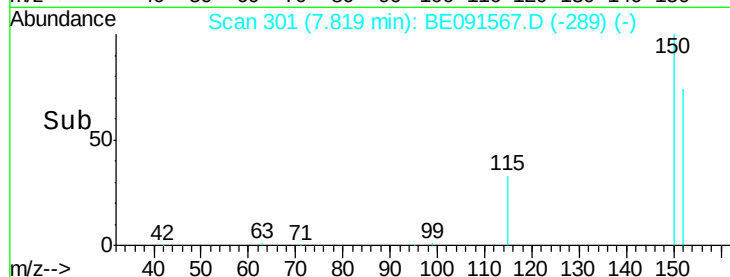
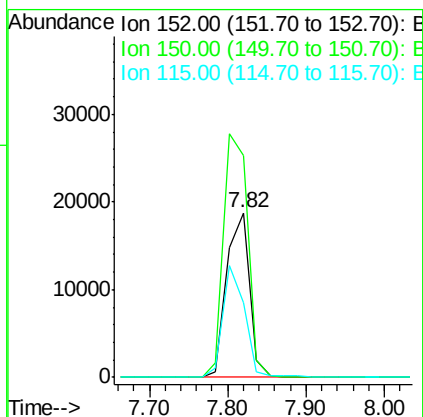
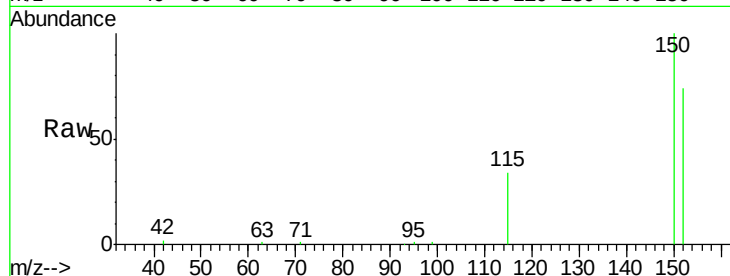


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.82 min Scan# 301
Delta R.T. 0.00 min
Lab File: BE091567.D
Acq: 30 Mar 2016 22:37

Instrument :
BNA_E
ClientSampleId :

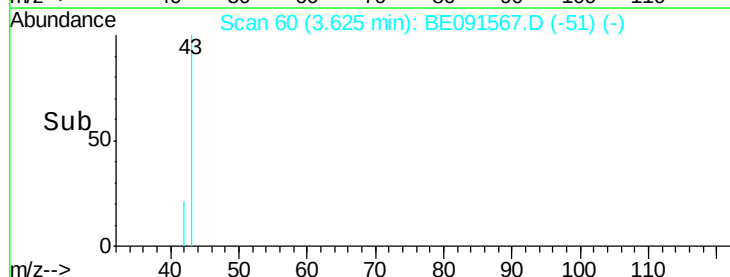
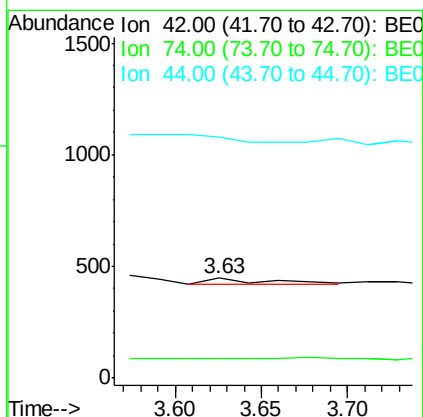
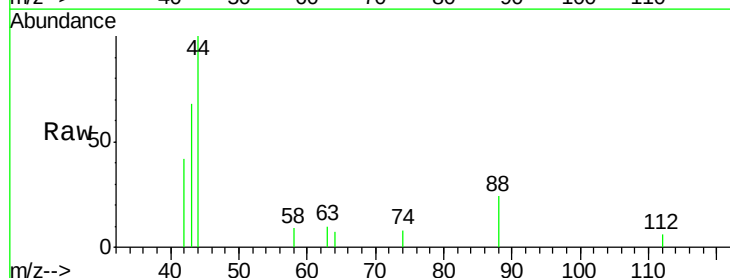
Tot Ion:152 Resp: 37393
Ion Ratio Lower Upper
152 100
150 134.3 122.2 183.2
115 45.4 45.9 68.9#

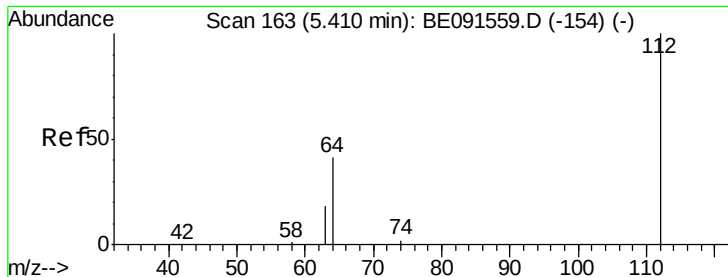


#3

n-Nitrosodimethylamine
Concen: 0.01 ng
RT: 3.63 min Scan# 60
Delta R.T. -0.05 min
Lab File: BE091567.D
Acq: 30 Mar 2016 22:37

Tgt Ion: 42 Resp: 80
Ion Ratio Lower Upper
42 100
74 0.0 84.3 126.5#
44 0.0 6.7 10.1#





#4

2-Fluorophenol

Concen: 2.75 ng

RT: 5.41 min Scan# 163

Delta R.T. -0.02 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

Instrument :

BNA_E

ClientSampled :

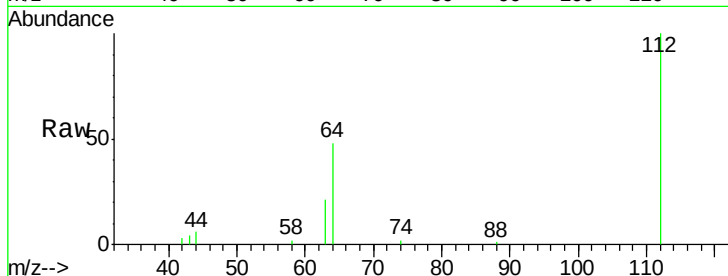
Tot Ion:112 Resp: 26971

Ion Ratio Lower Upper

112 100

64 67.5 53.3 79.9

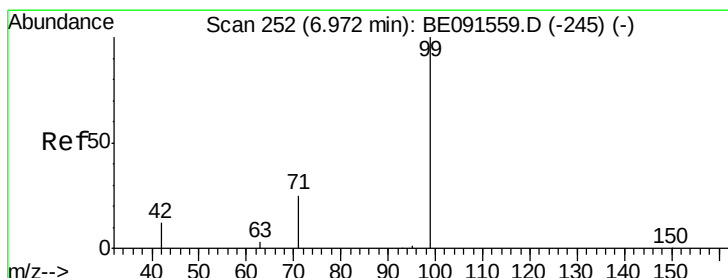
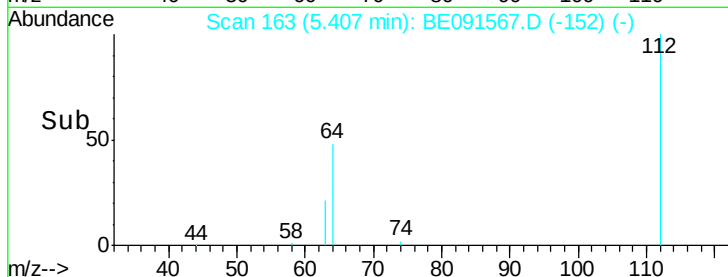
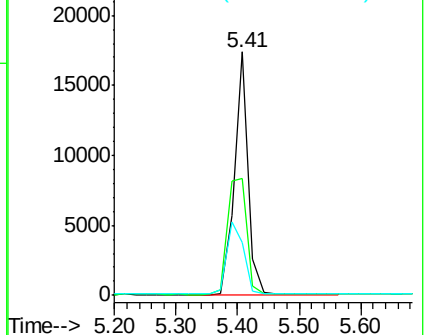
63 36.2 29.8 44.8



Abundance Ion 112.00 (111.70 to 112.70): BE0

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0



#5

Phenol-d6

Concen: 1.87 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

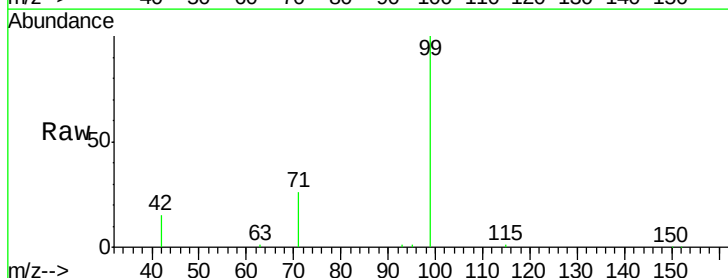
Tgt Ion: 99 Resp: 24696

Ion Ratio Lower Upper

99 100

42 24.5 20.6 30.8

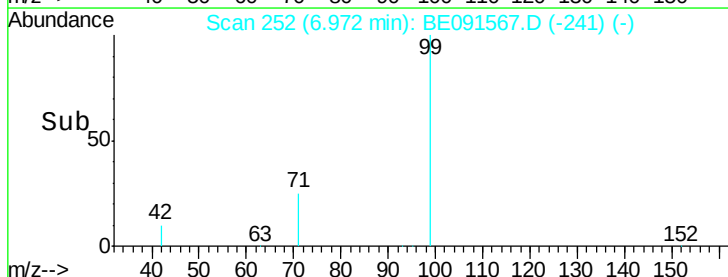
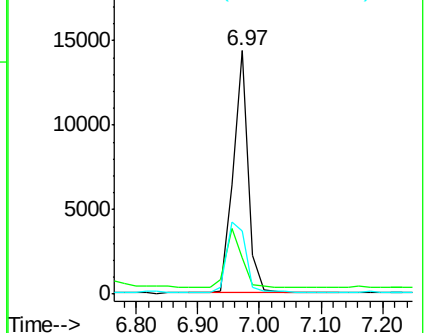
71 36.1 29.0 43.4

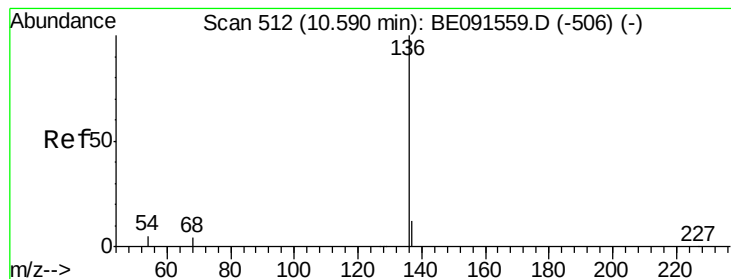


Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0





#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.59 min Scan# 512

Delta R.T. -0.00 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 178278

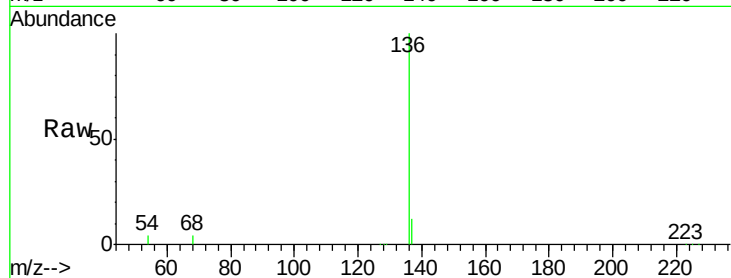
Ion Ratio Lower Upper

136 100

137 11.9 8.8 13.2

54 4.4 5.2 7.8#

68 3.7 4.1 6.1#

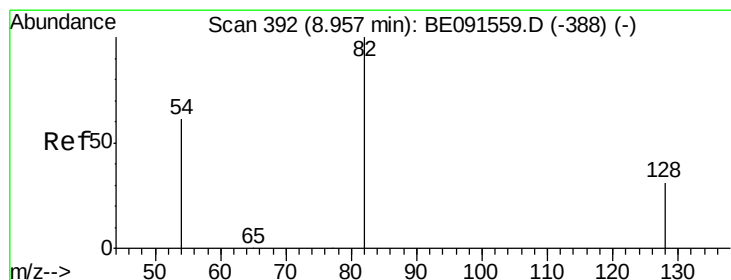
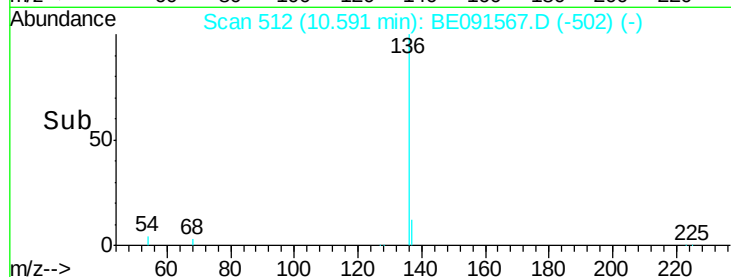
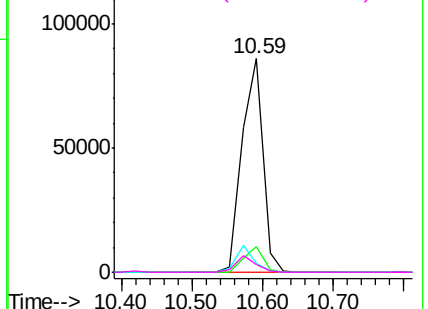


Abundance Ion 136.00 (135.70 to 136.70): E

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



#7

Nitrobenzene-d5

Concen: 3.53 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

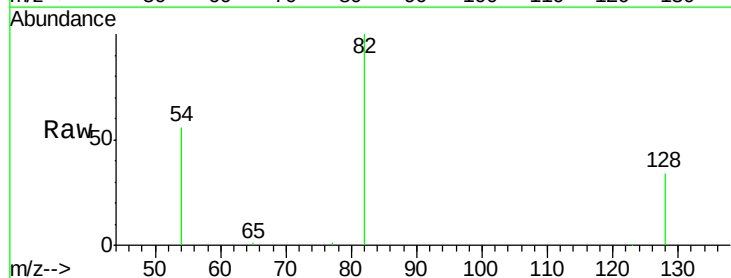
Tgt Ion: 82 Resp: 42235

Ion Ratio Lower Upper

82 100

128 33.7 23.5 35.3

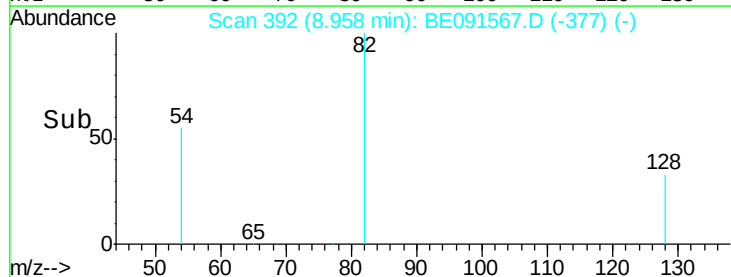
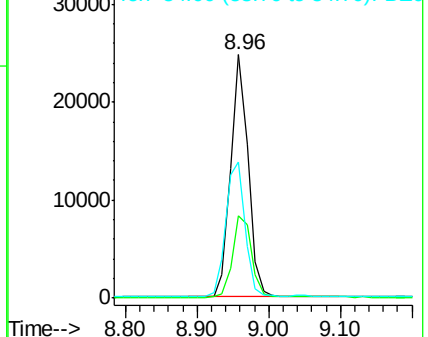
54 55.6 52.4 78.6

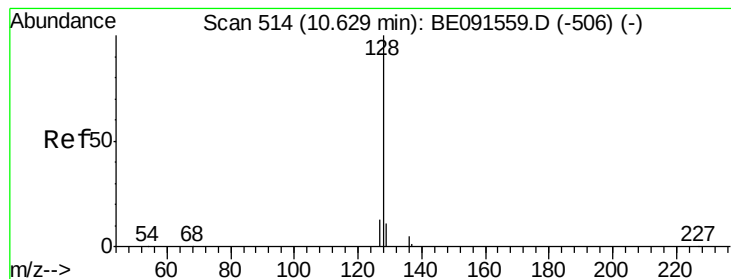


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#8

Naphthalene

Concen: 0.02 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

Instrument :

BNA_E

ClientSampleId :

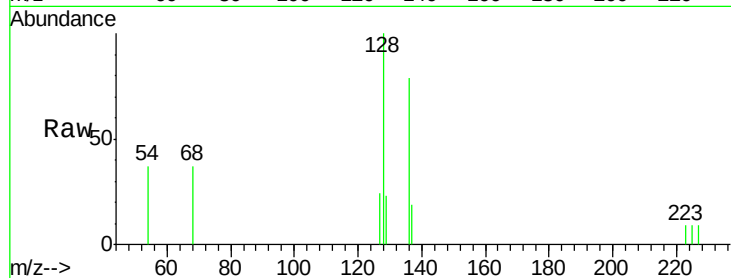
Tot Ion:128 Resp: 911

Ion Ratio Lower Upper

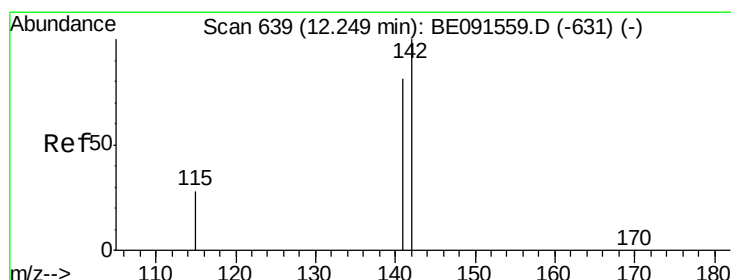
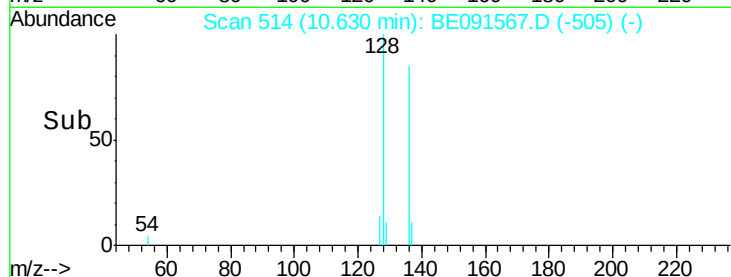
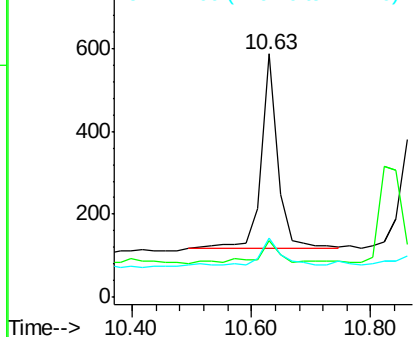
128 100

129 23.0 8.2 12.2#

127 24.2 11.8 17.8#



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



#9

2-Methylnaphthalene

Concen: 0.03 ng

RT: 12.24 min Scan# 638

Delta R.T. -0.02 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

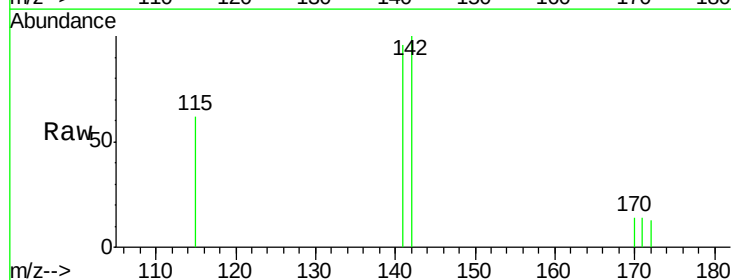
Tgt Ion:142 Resp: 644

Ion Ratio Lower Upper

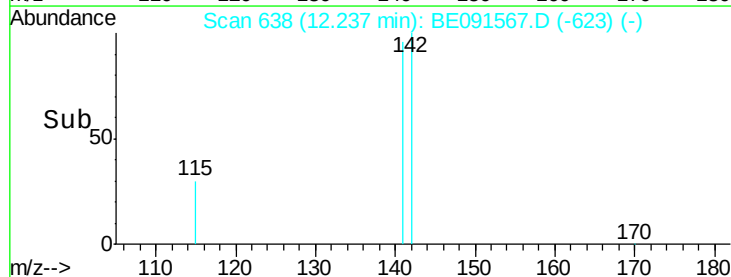
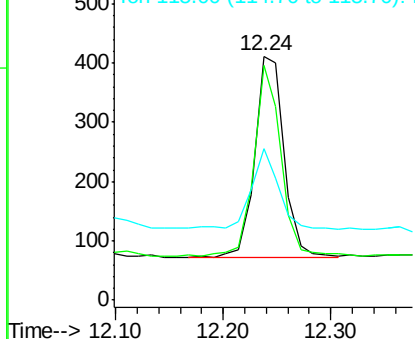
142 100

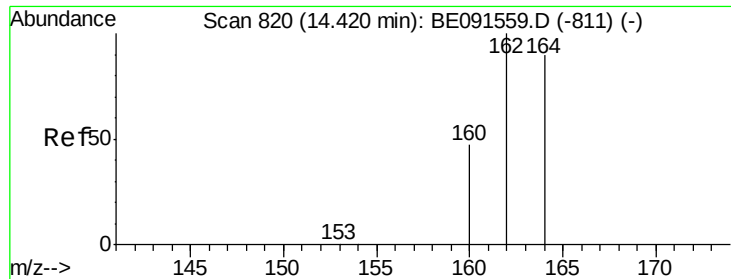
141 96.4 66.9 100.3

115 62.3 25.1 37.7#



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

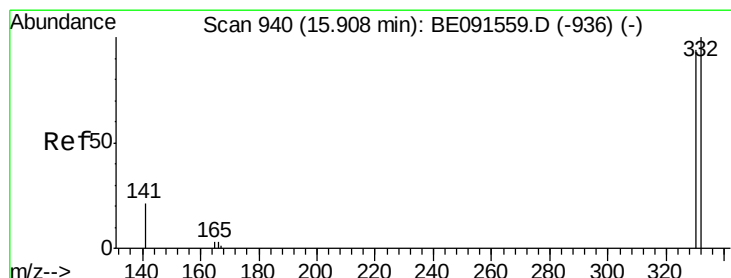
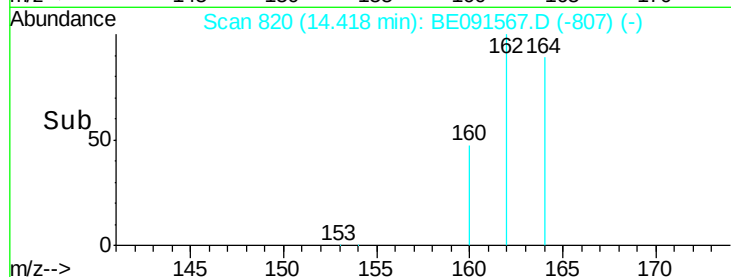
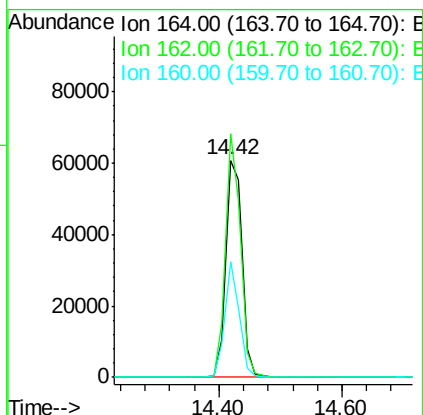
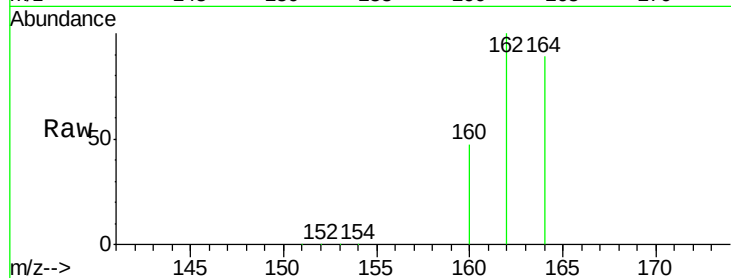




#10
Acenaphthene-d10
Concen: 5.00 ng
RT: 14.42 min Scan# 820
Delta R.T. -0.03 min
Lab File: BE091567.D
Acq: 30 Mar 2016 22:37

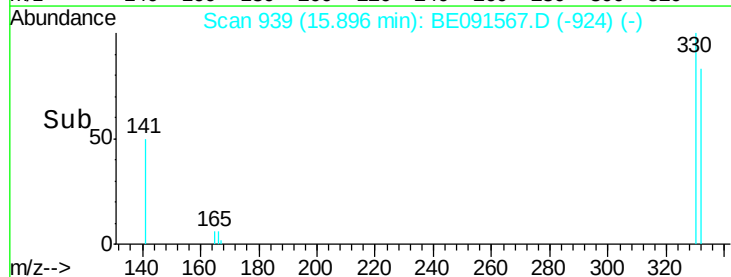
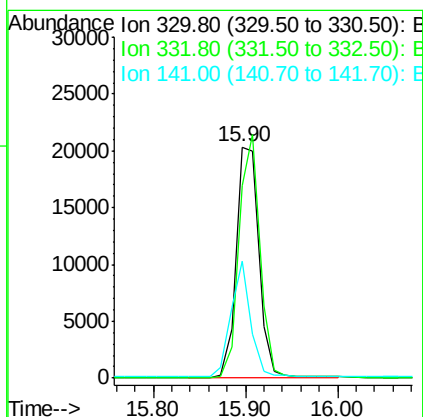
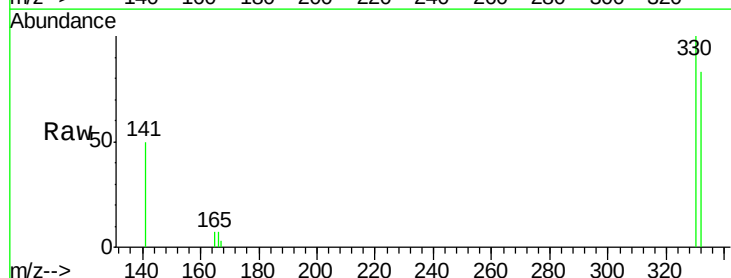
Instrument :
BNA_E
ClientSampleId :

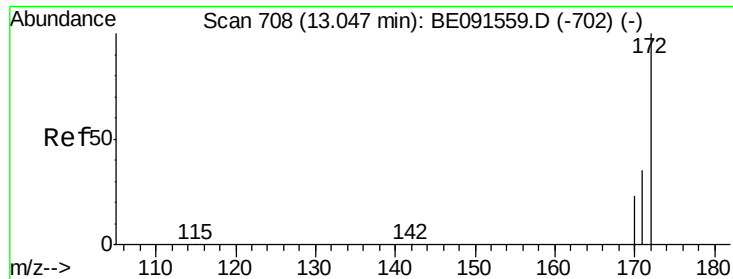
Tot Ion:164 Resp: 109996
Ion Ratio Lower Upper
164 100
162 112.0 84.4 126.6
160 53.2 37.7 56.5



#11
2,4,6-Tribromophenol
Concen: 7.19 ng
RT: 15.90 min Scan# 939
Delta R.T. -0.02 min
Lab File: BE091567.D
Acq: 30 Mar 2016 22:37

Tgt Ion:330 Resp: 35038
Ion Ratio Lower Upper
330 100
332 96.5 79.2 118.8
141 42.9 28.1 42.1#

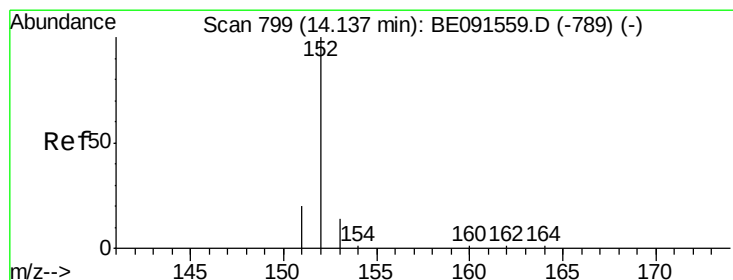
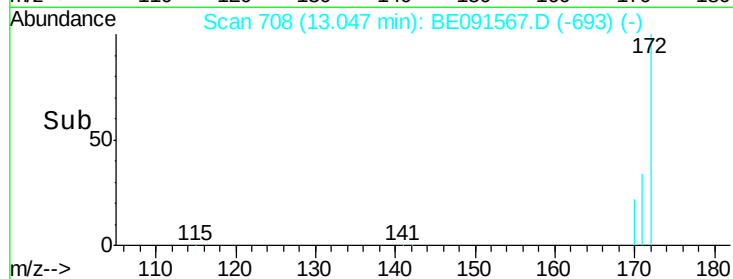
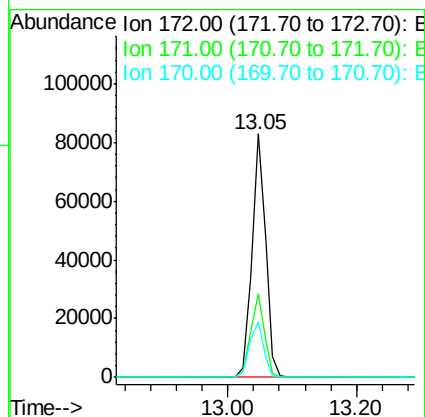
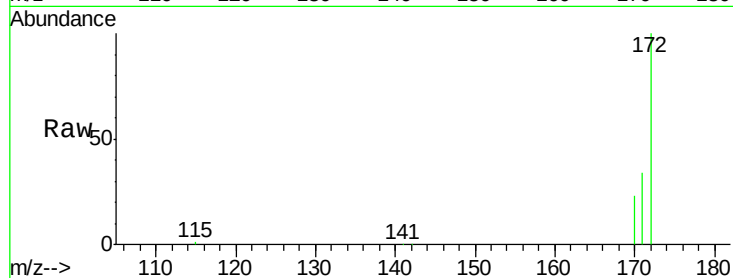




#12
2-Fluorobiphenyl
Concen: 3.88 ng
RT: 13.05 min Scan# 708
Delta R.T. -0.02 min
Lab File: BE091567.D
Acq: 30 Mar 2016 22:37

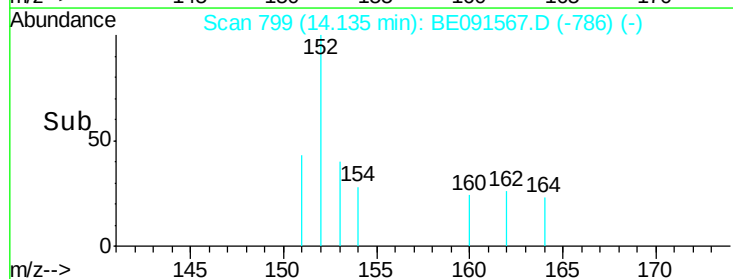
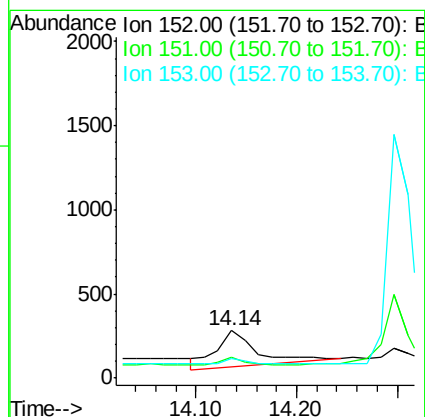
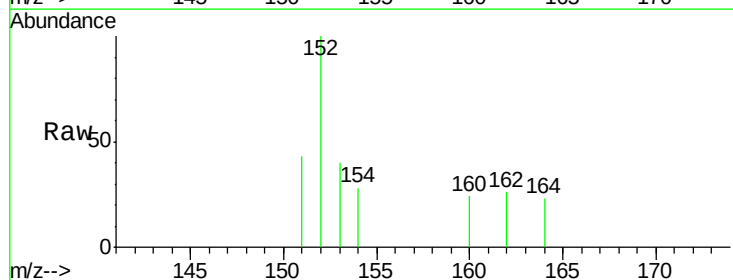
Instrument :
BNA_E
ClientSampleId :

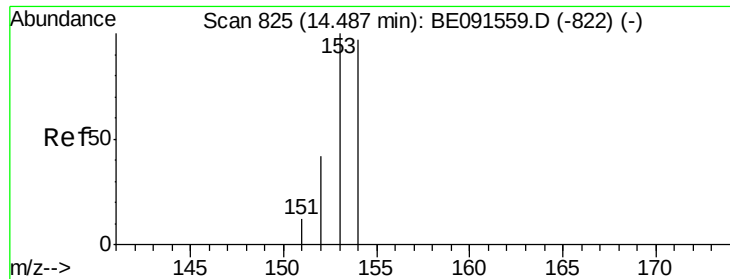
Tot Ion:172 Resp: 121430
Ion Ratio Lower Upper
172 100
171 34.1 29.8 44.8
170 22.5 21.4 32.2



#13
Acenaphthylene
Concen: 0.01 ng
RT: 14.14 min Scan# 799
Delta R.T. -0.01 min
Lab File: BE091567.D
Acq: 30 Mar 2016 22:37

Tgt Ion:152 Resp: 635
Ion Ratio Lower Upper
152 100
151 24.3 16.3 24.5
153 17.5 11.1 16.7#





#14

Acenaphthene

Concen: 0.00 ng

RT: 14.49 min Scan# 825

Delta R.T. -0.01 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

Instrument :

BNA_E

ClientSampled :

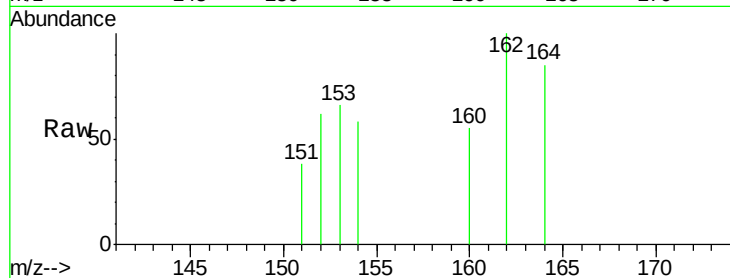
Tot Ion:154 Resp: 128

Ion Ratio Lower Upper

154 100

153 155.5 87.3 130.9#

152 136.7 42.9 64.3#

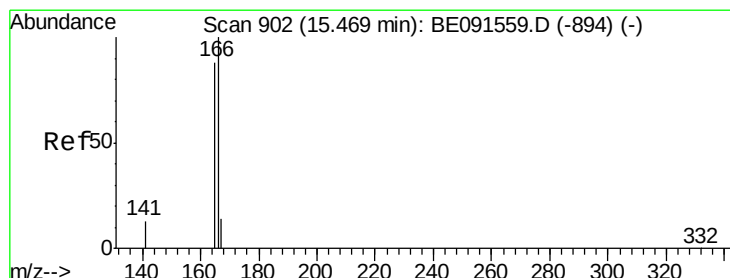
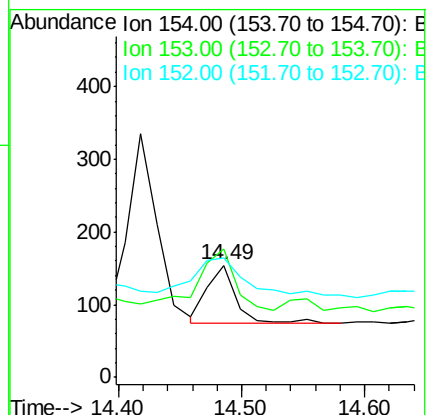
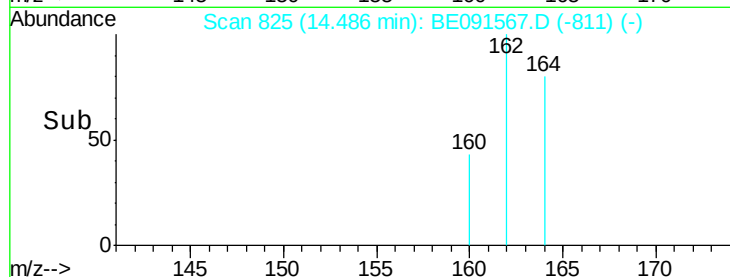


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Time--> 14.40 14.50 14.60



#15

Fluorene

Concen: 0.01 ng

RT: 15.47 min Scan# 902

Delta R.T. -0.01 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

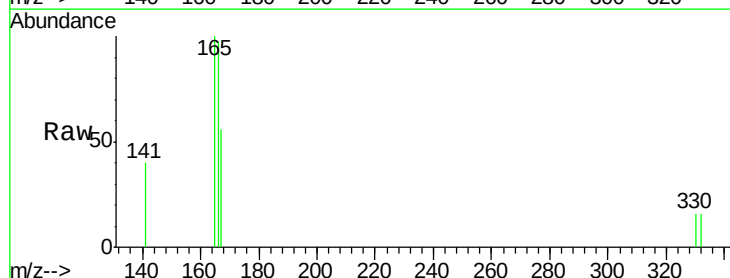
Tgt Ion:166 Resp: 397

Ion Ratio Lower Upper

166 100

165 96.2 79.2 118.8

167 34.5 10.8 16.2#

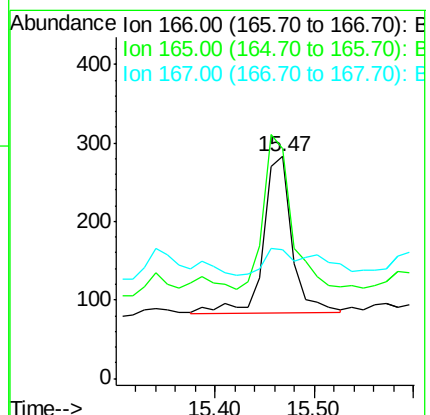
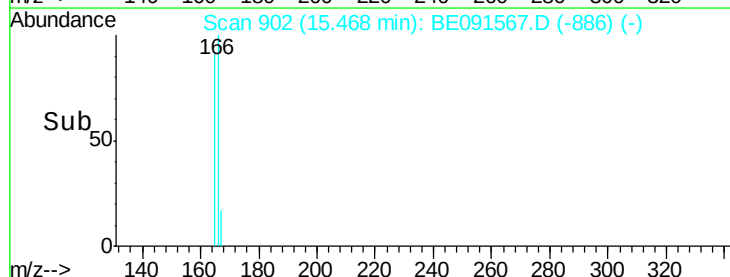


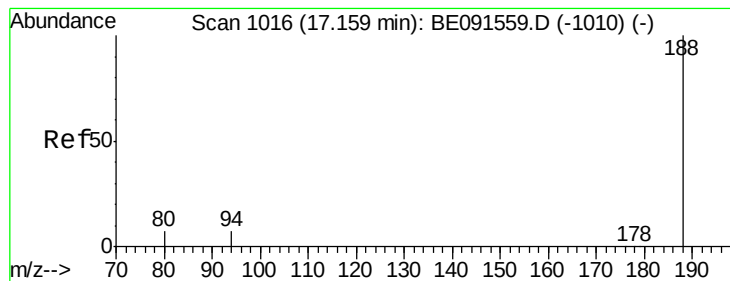
Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

Time--> 15.40 15.50





#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.16 min Scan# 1017

Delta R.T. -0.01 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

Instrument :

BNA_E

ClientSampleId :

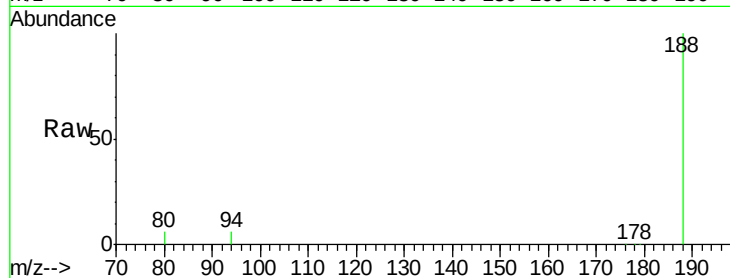
Tot Ion:188 Resp: 273224

Ion Ratio Lower Upper

188 100

94 6.2 5.4 8.2

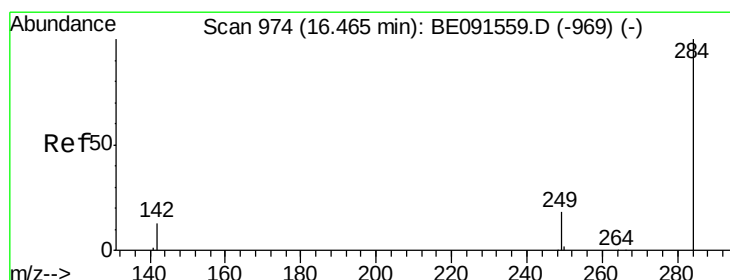
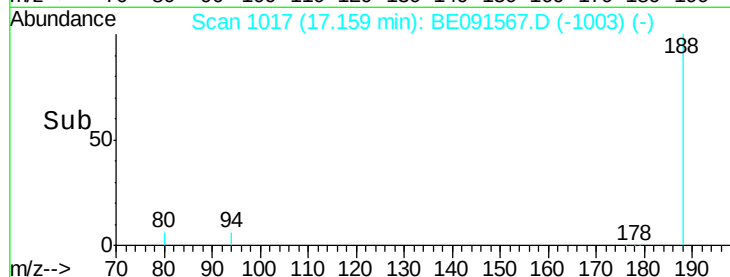
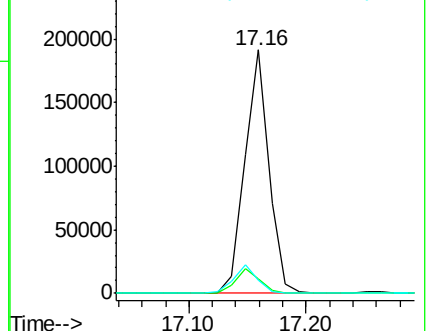
80 5.6 5.0 7.4



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



#17

Hexachlorobenzene

Concen: 0.00 ng

RT: 16.46 min Scan# 974

Delta R.T. -0.02 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

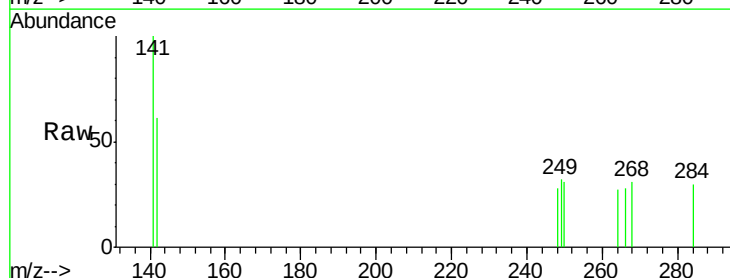
Tgt Ion:284 Resp: 23

Ion Ratio Lower Upper

284 100

142 252.2 31.0 46.4#

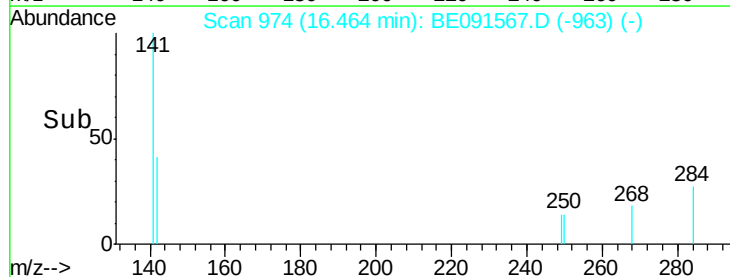
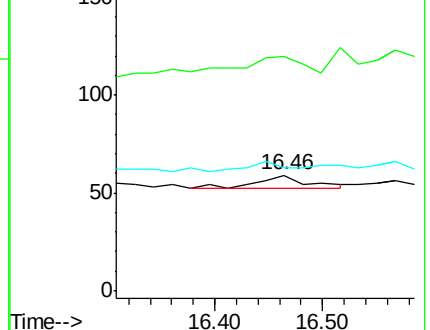
249 52.2 25.8 38.8#

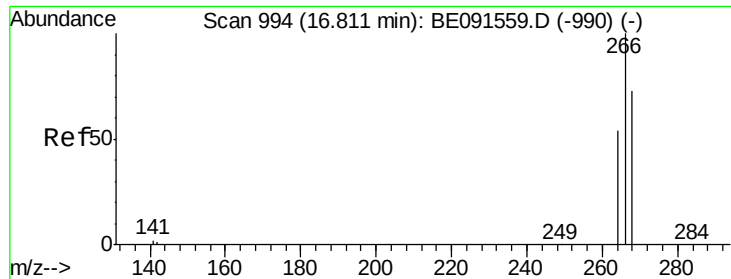


Abundance Ion 283.80 (283.50 to 284.50): E

Ion 142.00 (141.70 to 142.70): E

Ion 249.00 (248.70 to 249.70): E

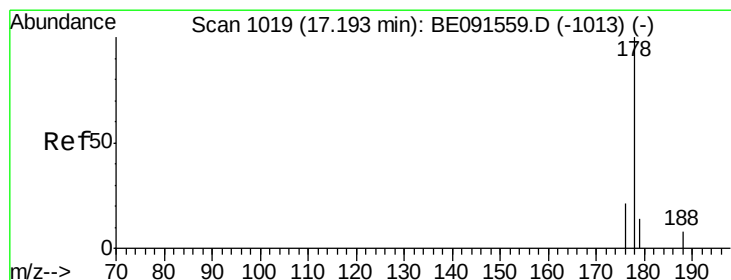
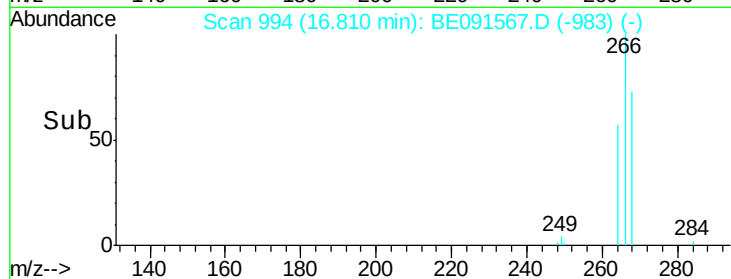
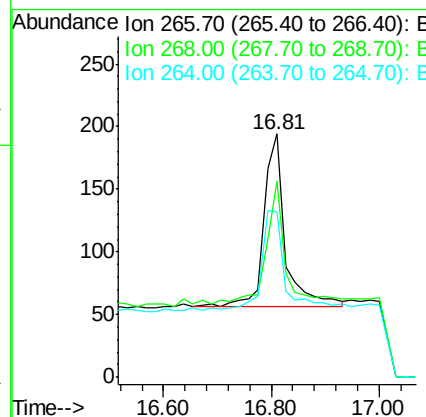
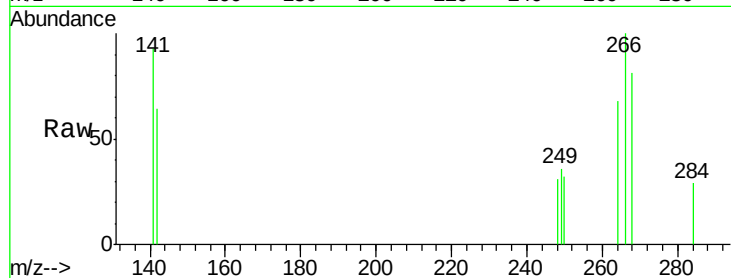




#18
 Pentachlorophenol
 Concen: 0.07 ng
 RT: 16.81 min Scan# 994
 Delta R.T. -0.02 min
 Lab File: BE091567.D
 Acq: 30 Mar 2016 22:37

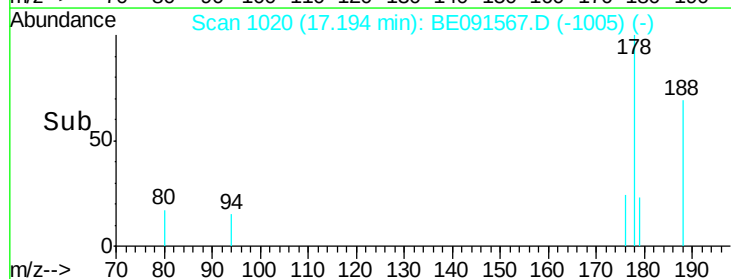
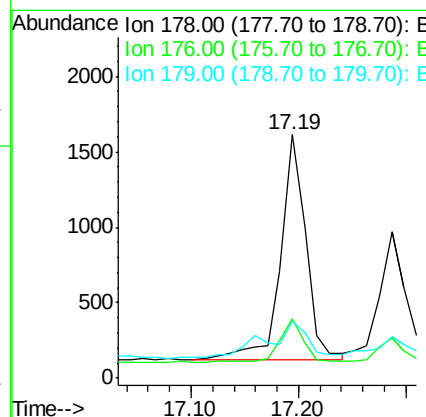
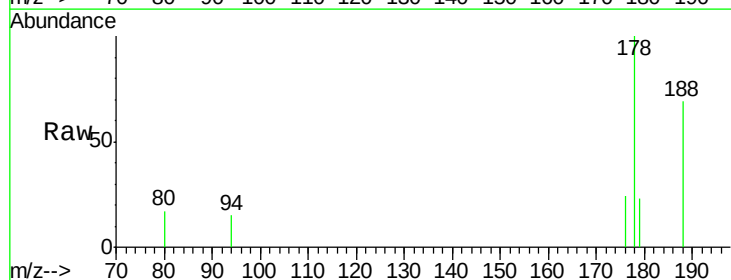
Instrument :
 BNA_E
 ClientSampleId :

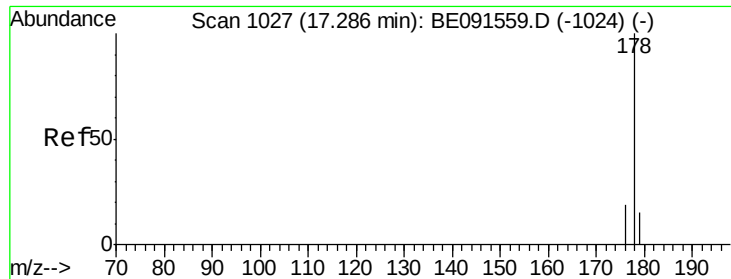
Tot Ion:266 Resp: 384
 Ion Ratio Lower Upper
 266 100
 268 80.9 48.2 72.2#
 264 68.0 52.1 78.1



#19
 Phenanthrene
 Concen: 0.04 ng
 RT: 17.19 min Scan# 1020
 Delta R.T. -0.01 min
 Lab File: BE091567.D
 Acq: 30 Mar 2016 22:37

Tgt Ion:178 Resp: 2444
 Ion Ratio Lower Upper
 178 100
 176 16.7 15.5 23.3
 179 24.1 13.1 19.7#

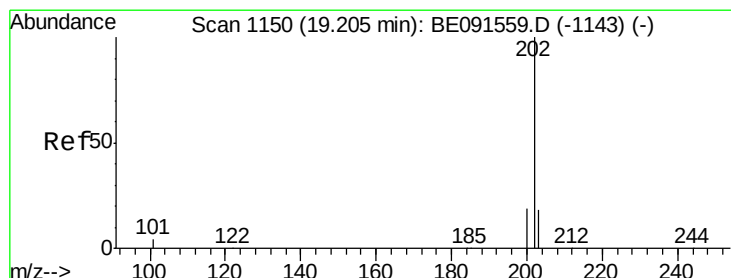
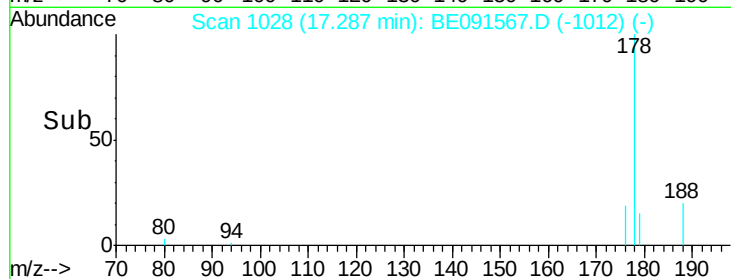
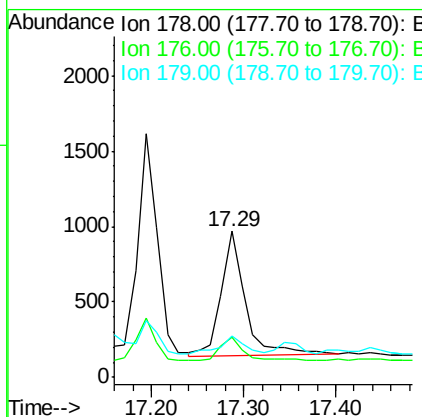
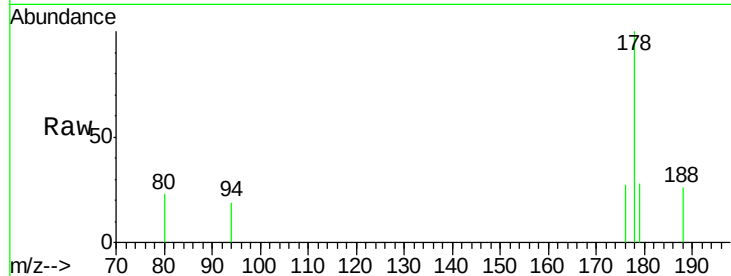




#20
 Anthracene
 Concen: 0.03 ng
 RT: 17.29 min Scan# 1028
 Delta R.T. -0.01 min
 Lab File: BE091567.D
 Acq: 30 Mar 2016 22:37

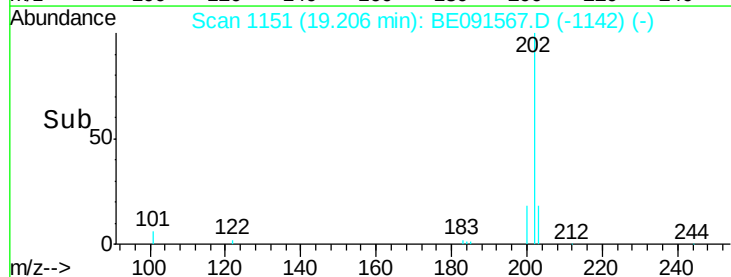
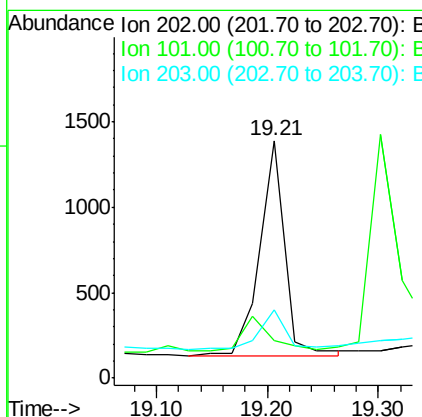
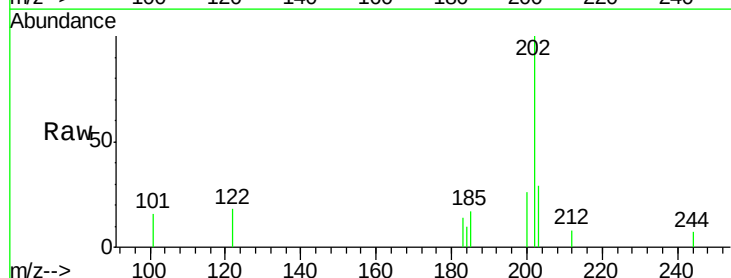
Instrument :
 BNA_E
 ClientSampleId :

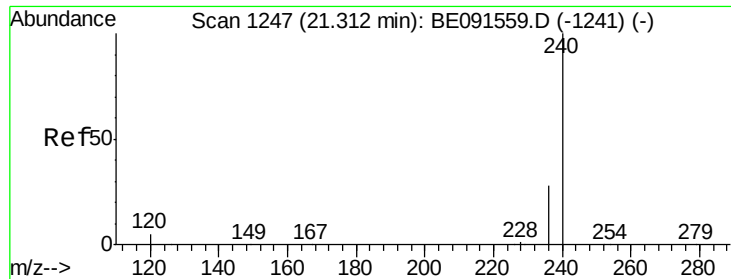
Tot Ion:178 Resp: 1493
 Ion Ratio Lower Upper
 178 100
 176 18.0 14.9 22.3
 179 16.8 12.2 18.4



#21
 Fluoranthene
 Concen: 0.03 ng
 RT: 19.21 min Scan# 1151
 Delta R.T. -0.02 min
 Lab File: BE091567.D
 Acq: 30 Mar 2016 22:37

Tgt Ion:202 Resp: 1979
 Ion Ratio Lower Upper
 202 100
 101 18.3 8.3 12.5#
 203 18.6 13.9 20.9

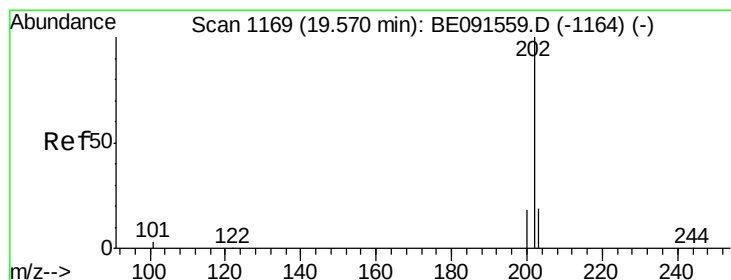
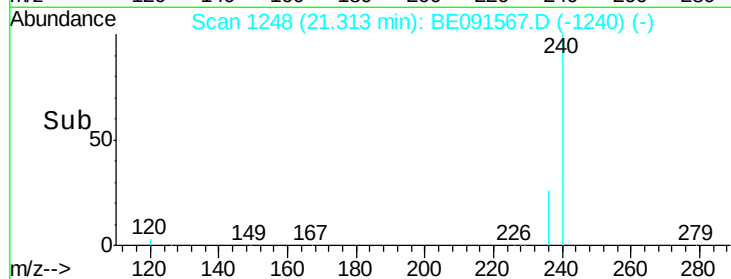
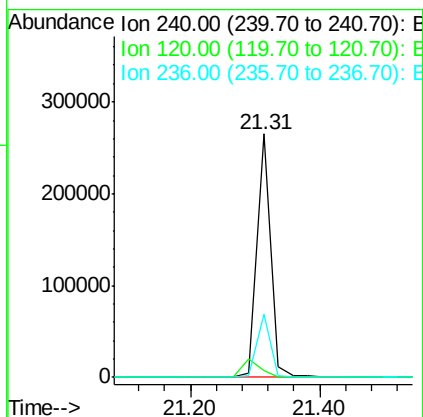
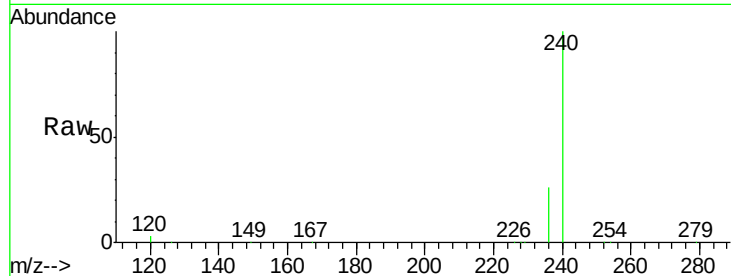




#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.31 min Scan# 1248
Delta R.T. -0.02 min
Lab File: BE091567.D
Acq: 30 Mar 2016 22:37

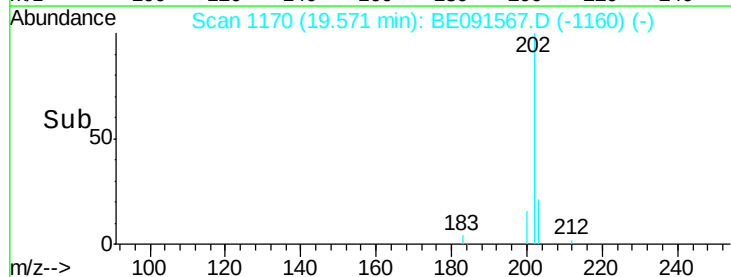
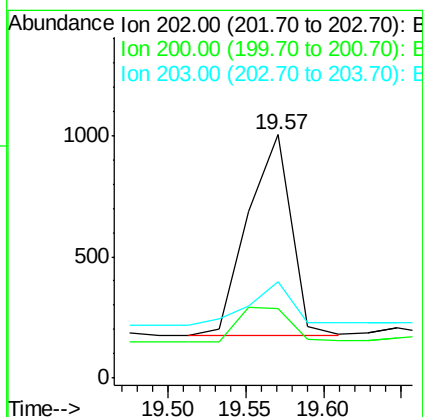
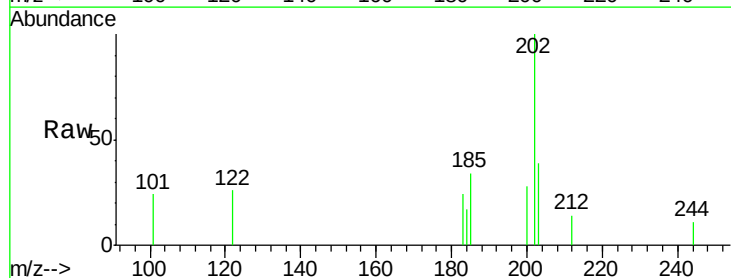
Instrument :
BNA_E
ClientSampleId :

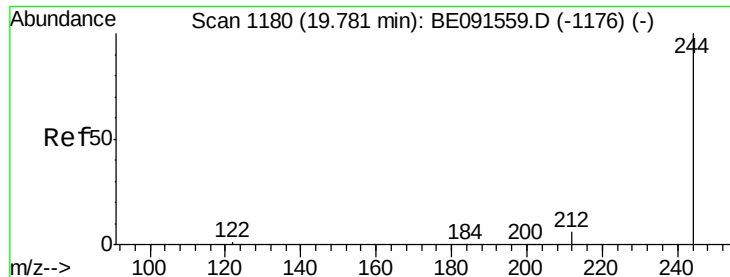
Tot Ion:240 Resp: 394191
Ion Ratio Lower Upper
240 100
120 2.7 4.0 6.0#
236 26.1 23.0 34.4



#23
Pyrene
Concen: 0.02 ng
RT: 19.57 min Scan# 1170
Delta R.T. 0.00 min
Lab File: BE091567.D
Acq: 30 Mar 2016 22:37

Tgt Ion:202 Resp: 1615
Ion Ratio Lower Upper
202 100
200 21.7 16.4 24.6
203 23.3 14.6 21.8#





#24

Terphenyl-d14

Concen: 5.47 ng

RT: 19.76 min Scan# 1180

Delta R.T. -0.02 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

Instrument :

BNA_E

ClientSampleId :

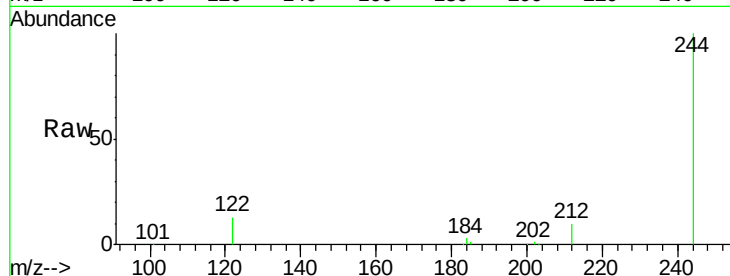
Tot Ion:244 Resp: 273597

Ion Ratio Lower Upper

244 100

212 10.0 5.8 8.8#

122 12.9 1.8 2.8#



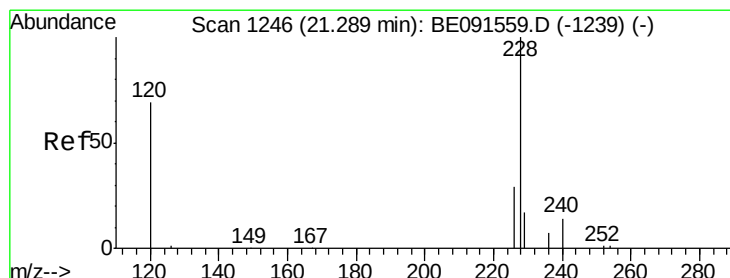
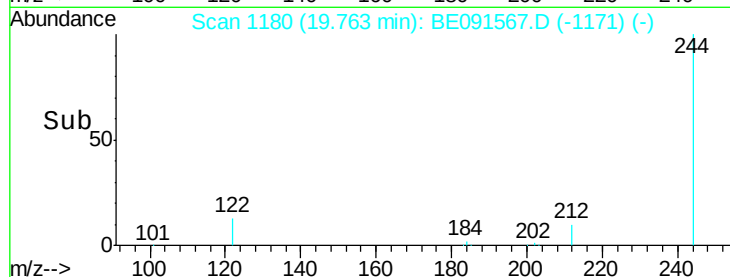
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

19.76

Time-->



#25

Benzo(a)anthracene

Concen: 0.04 ng

RT: 21.29 min Scan# 1247

Delta R.T. -0.02 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

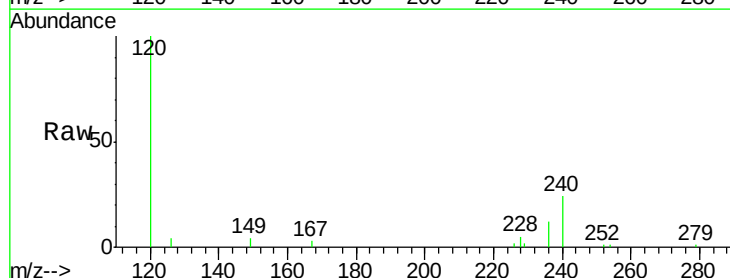
Tgt Ion:228 Resp: 3462

Ion Ratio Lower Upper

228 100

226 42.1 24.0 36.0#

229 41.2 13.8 20.6#



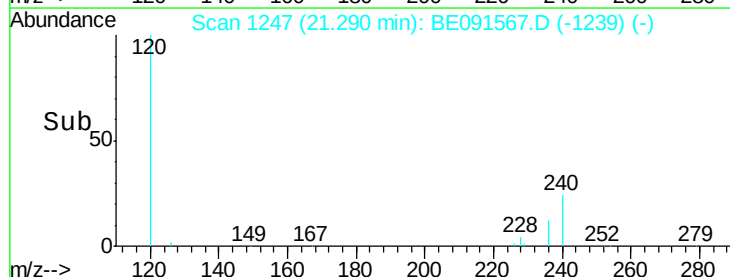
Abundance Ion 228.00 (227.70 to 228.70): E

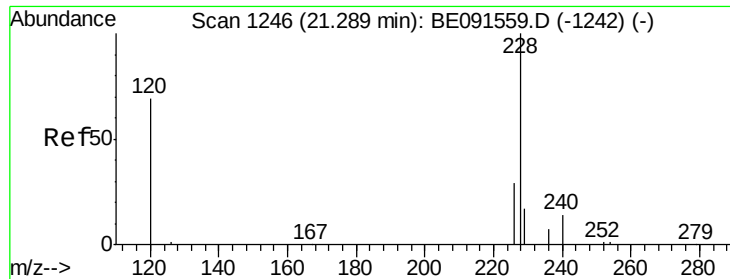
Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

21.29

Time-->





#26

Chrysene

Concen: 0.04 ng

RT: 21.29 min Scan# 1247

Delta R.T. -0.07 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

Instrument :

BNA_E

ClientSampleId :

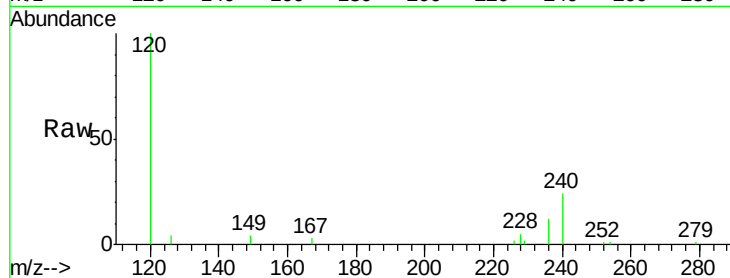
Tot Ion:228 Resp: 3478

Ion Ratio Lower Upper

228 100

226 42.1 18.9 28.3#

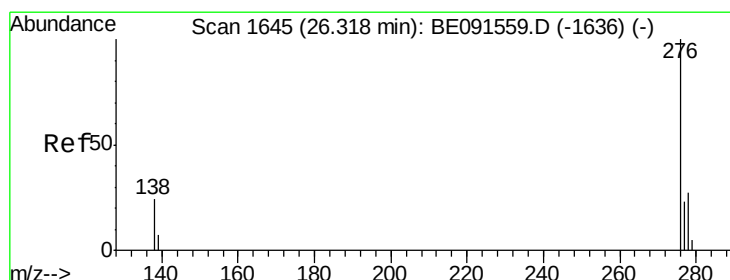
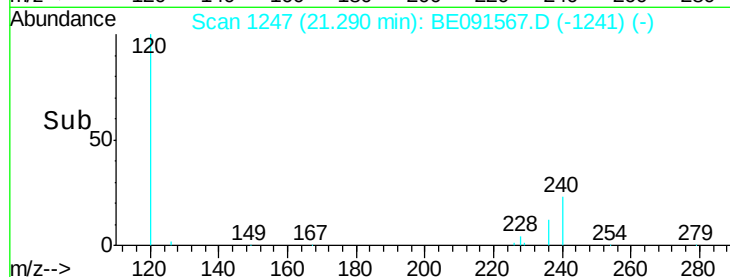
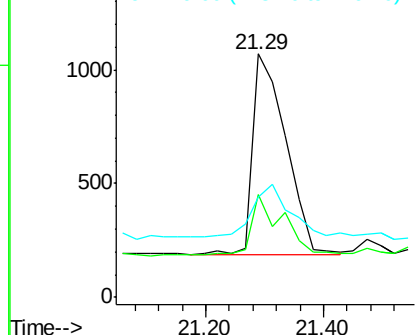
229 41.2 19.1 28.7#



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



#27

Indeno(1,2,3-cd)pyrene

Concen: 0.01 ng

RT: 26.32 min Scan# 1646

Delta R.T. -0.06 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

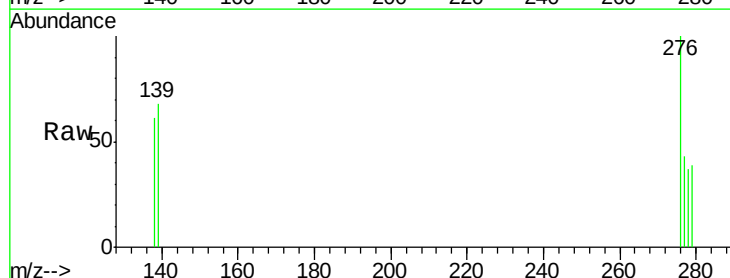
Tgt Ion:276 Resp: 1047

Ion Ratio Lower Upper

276 100

138 32.0 20.2 30.4#

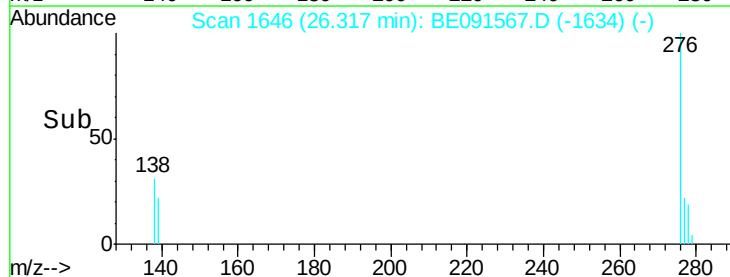
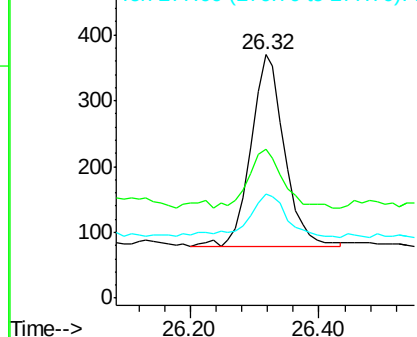
277 23.0 19.8 29.8

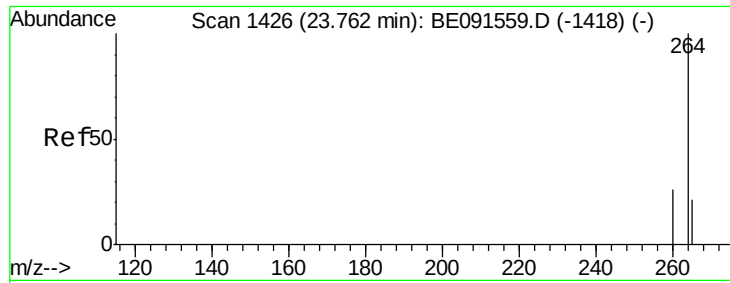


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

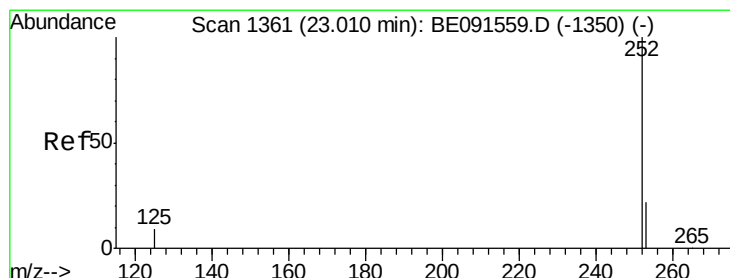
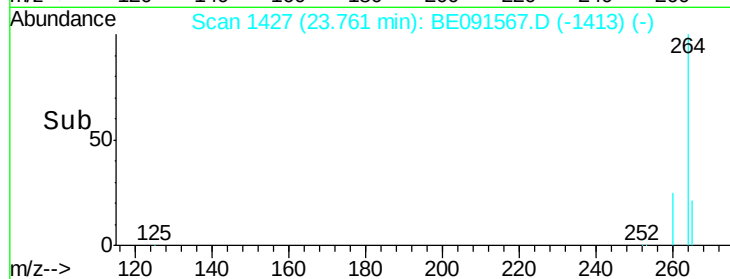
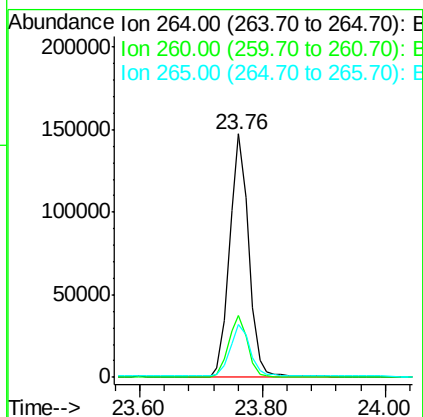
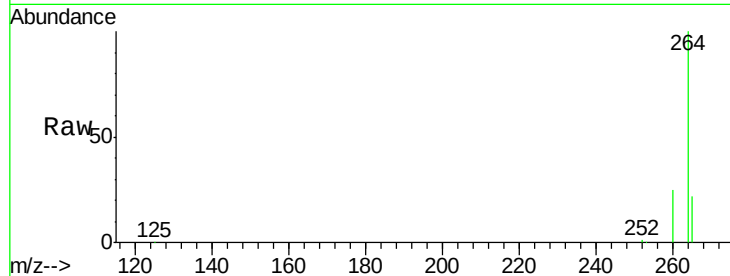




#28
Pervlene-d12
Concen: 5.00 ng
RT: 23.76 min Scan# 1427
Delta R.T. -0.03 min
Lab File: BE091567.D
Acq: 30 Mar 2016 22:37

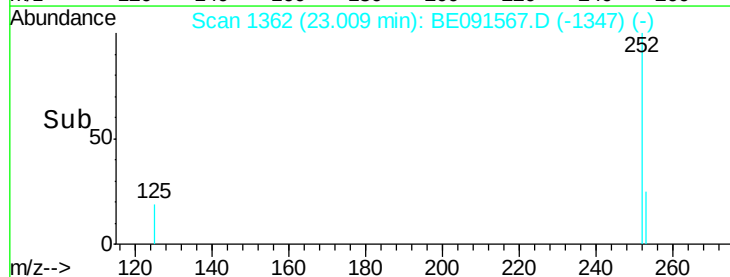
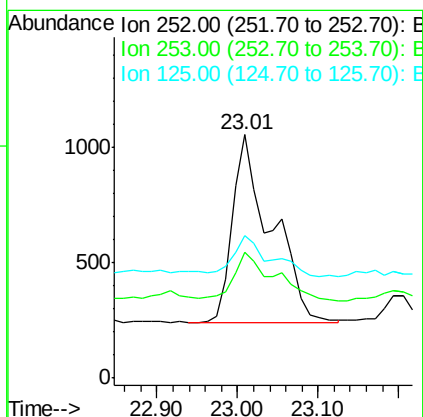
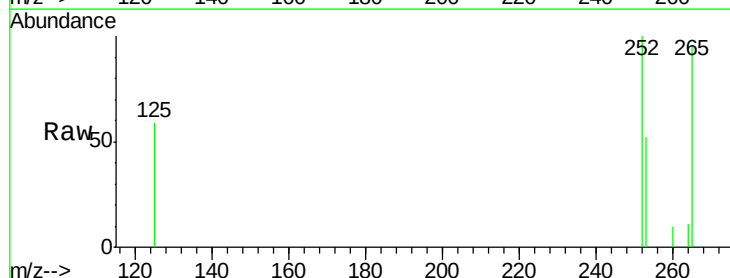
Instrument :
BNA_E
ClientSampleId :

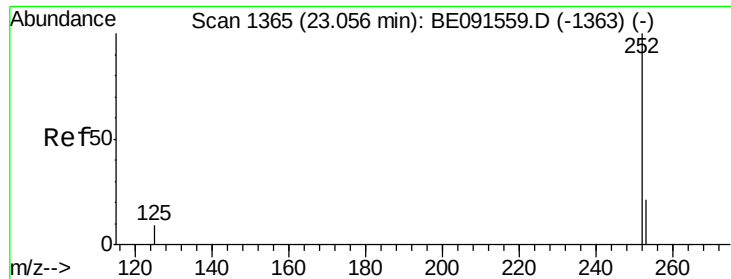
Tot Ion:264 Resp: 321319
Ion Ratio Lower Upper
264 100
260 25.4 20.1 30.1
265 21.8 18.3 27.5



#29
Benzo(b)fluoranthene
Concen: 0.03 ng
RT: 23.01 min Scan# 1362
Delta R.T. -0.02 min
Lab File: BE091567.D
Acq: 30 Mar 2016 22:37

Tgt Ion:252 Resp: 2720
Ion Ratio Lower Upper
252 100
253 51.7 18.7 28.1#
125 58.7 9.8 14.6#





#30

Benzo(k)fluoranthene

Concen: 0.04 ng

RT: 23.01 min Scan# 1362

Delta R.T. -0.07 min

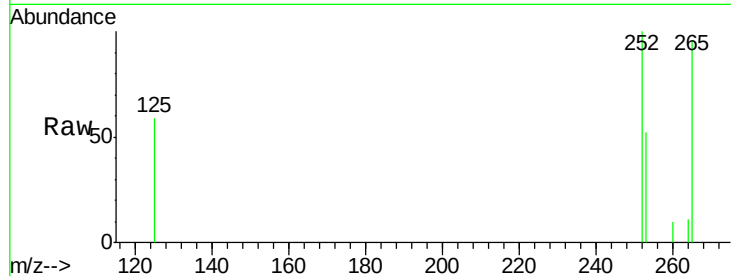
Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

Instrument :

BNA_E

ClientSampleId :



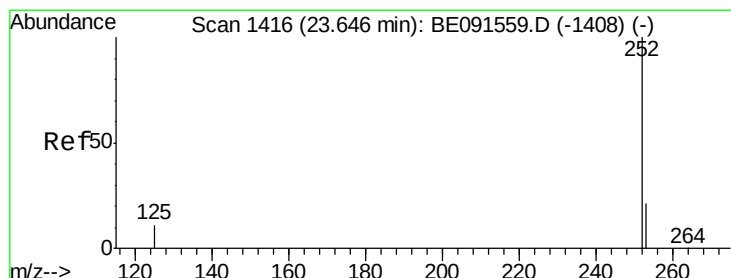
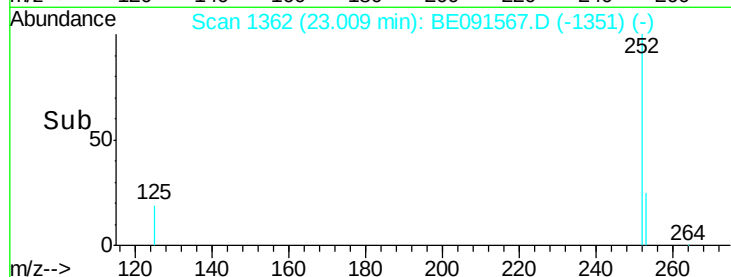
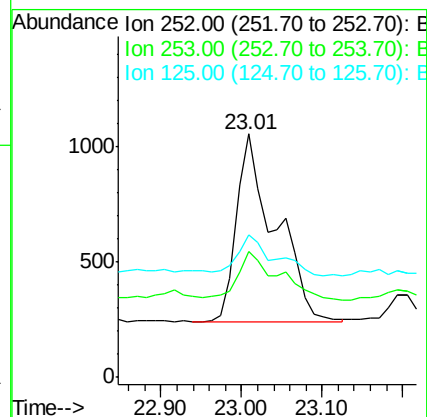
Tot Ion:252 Resp: 2720

Ion Ratio Lower Upper

252 100

253 51.7 20.2 30.4#

125 58.7 9.4 14.2#



#31

Benzo(a)pyrene

Concen: 0.01 ng

RT: 23.65 min Scan# 1417

Delta R.T. -0.03 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

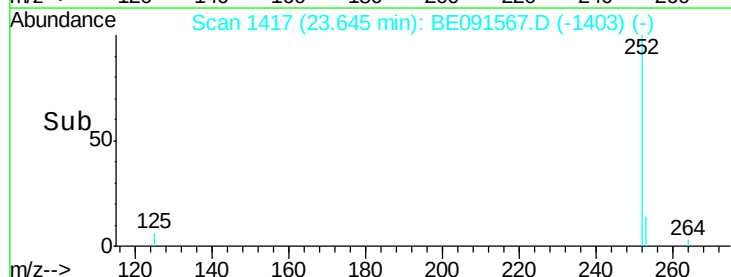
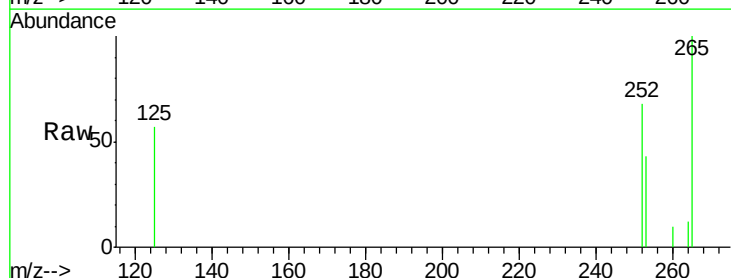
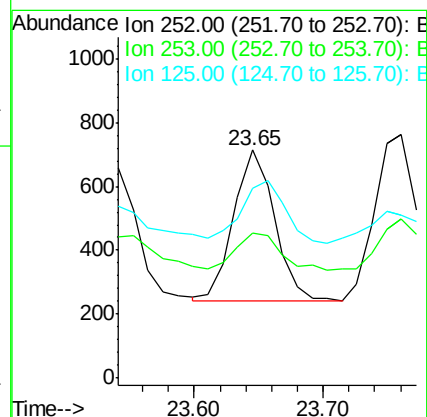
Tgt Ion:252 Resp: 1038

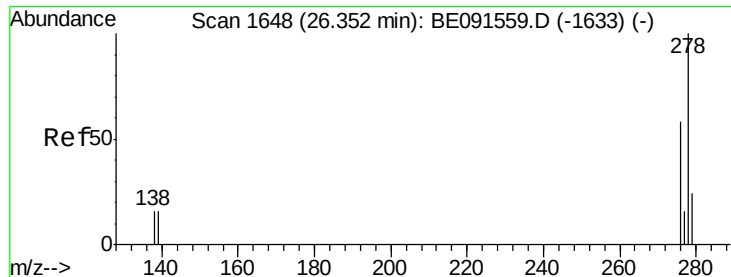
Ion Ratio Lower Upper

252 100

253 63.4 19.4 29.0#

125 83.2 11.4 17.2#





#32

Dibenzo(a,h)anthracene

Concen: 0.01 ng

RT: 26.35 min Scan# 1649

Delta R.T. -0.05 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

Instrument :

BNA_E

ClientSampled :

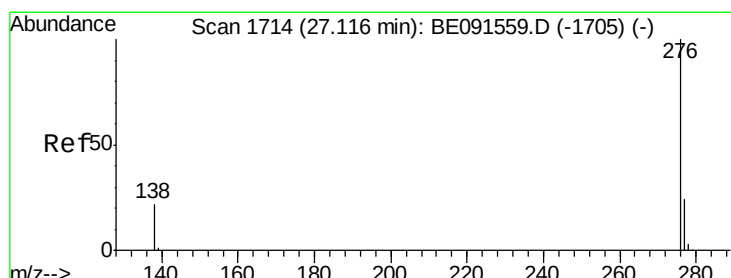
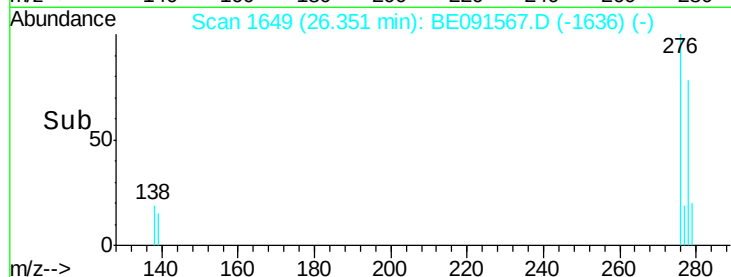
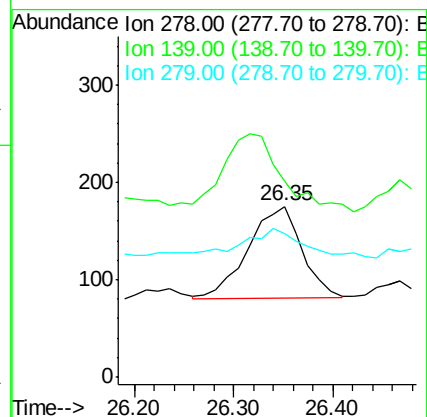
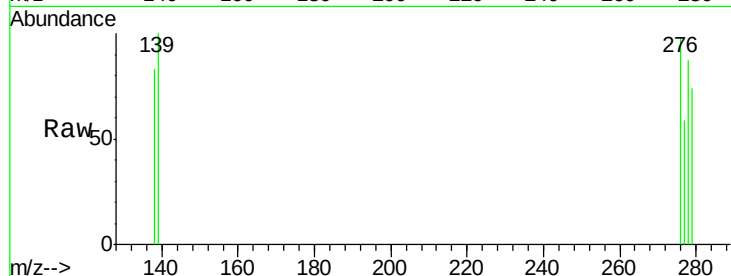
Tot Ion:278 Resp: 356

Ion Ratio Lower Upper

278 100

139 114.9 14.2 21.4#

279 84.6 19.6 29.4#



#33

Benzo(g,h,i)perylene

Concen: 0.01 ng

RT: 27.11 min Scan# 1715

Delta R.T. -0.05 min

Lab File: BE091567.D

Acq: 30 Mar 2016 22:37

Tgt Ion:276 Resp: 993

Ion Ratio Lower Upper

276 100

277 44.7 19.4 29.2#

138 56.8 18.2 27.4#

