

Data Path : Z:\HPCHEM1\BNA E\DATA\BE040116\
 Data File : BE091588.D
 Acq On : 31 Mar 2016 18:39
 Operator : UM/SJ
 Sample : H1855-06MS
 Misc : LOO WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Apr 01 00:46:48 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	36435	5.00	ng	0.00
6) Naphthalene-d8	10.59	136	182054	5.00	ng	0.00
10) Acenaphthene-d10	14.42	164	111990	5.00	ng	-0.03
16) Phenanthrene-d10	17.16	188	270644	5.00	ng	-0.01
22) Chrysene-d12	21.31	240	378848	5.00	ng	-0.02
28) Perylene-d12	23.76	264	330471	5.00	ng	-0.03

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) 2-Fluorophenol	5.41	112	58898	6.17	ng	-0.02
5) Phenol-d6	6.97	99	92344	7.16	ng	-0.02
7) Nitrobenzene-d5	8.96	82	40320	3.30	ng	-0.02
11) 2,4,6-Tribromophenol	15.90	330	28413	5.73	ng	-0.02
12) 2-Fluorobiphenyl	13.05	172	113221	3.56	ng	-0.02
24) Terphenyl-d14	19.76	244	172570	3.59	ng	-0.02

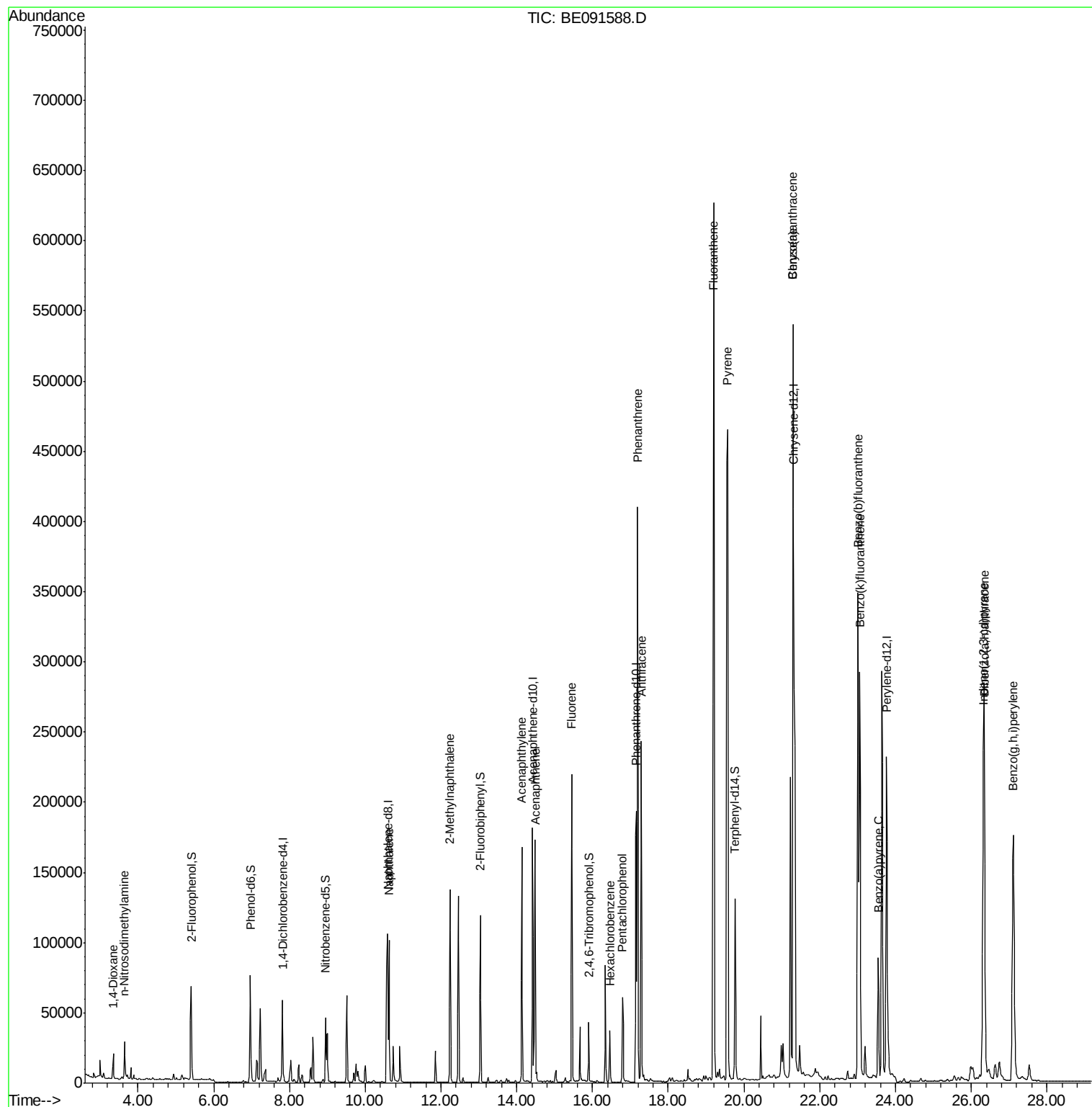
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	3.35	88	13339	3.09	ng	# 92
3) n-Nitrosodimethylamine	3.64	42	22503	3.40	ng	# 93
8) Naphthalene	10.63	128	139601	3.71	ng	97
9) 2-Methylnaphthalene	12.24	142	103960	4.23	ng	# 86
13) Acenaphthylene	14.14	152	208517	4.62	ng	98
14) Acenaphthene	14.49	154	116651	4.21	ng	94
15) Fluorene	15.46	166	148227	4.16	ng	100
17) Hexachlorobenzene	16.46	284	39676	3.99	ng	98
18) Pentachlorophenol	16.79	266	48532	8.68	ng	90
19) Phenanthrene	17.19	178	425065	6.71	ng	99
20) Anthracene	17.29	178	276073	4.72	ng	99
21) Fluoranthene	19.21	202	702656	9.41	ng	98
23) Pvrene	19.57	202	704214	9.12	ng	97
25) Benzo(a)anthracene	21.29	228	998224	11.22	ng	99
26) Chrysene	21.29	228	999110	13.13	ng	# 88
27) Indeno(1,2,3-cd)pyrene	26.32	276	470153	5.36	ng	98
29) Benzo(b)fluoranthene	23.01	252	551865	6.89	ng	97
30) Benzo(k)fluoranthene	23.06	252	407554	5.25	ng	95
31) Benzo(a)pvrene	23.54	252	130401	1.78	ng	98
32) Dibenzo(a,h)anthracene	26.35	278	307846	4.28	ng	97
33) Benzo(g,h,i)perylene	27.12	276	418873	5.71	ng	99

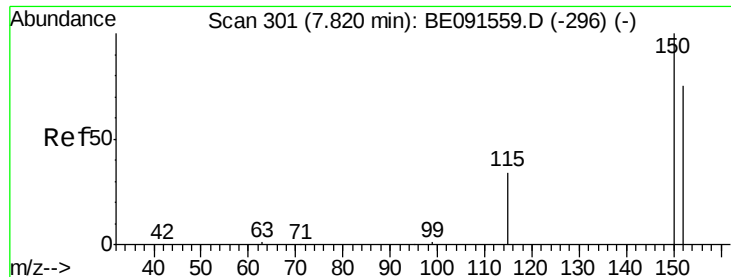
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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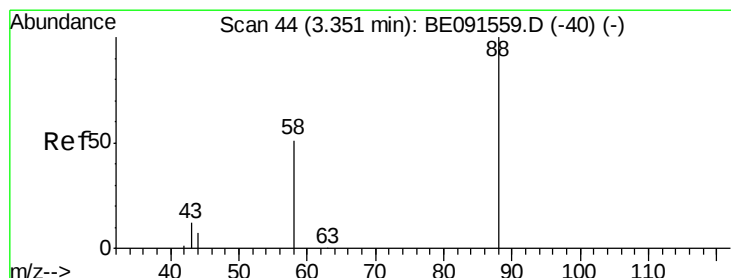
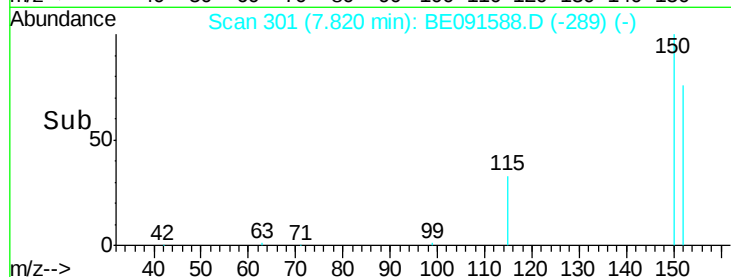
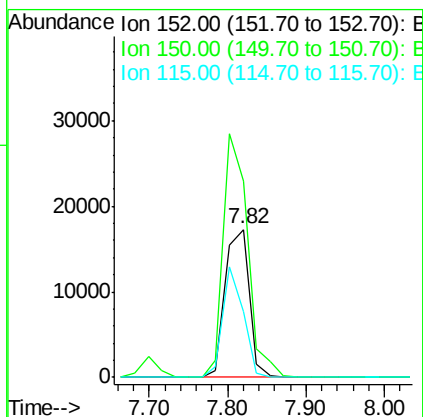
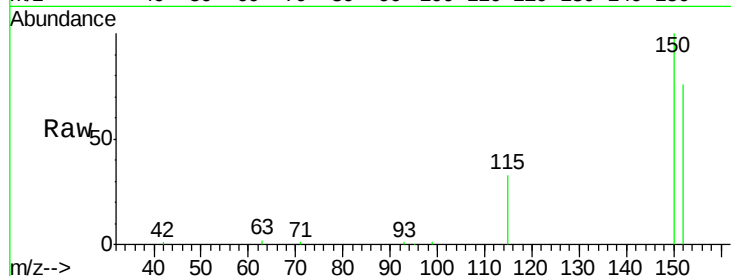


#1

1,4-Dichlorobenzene-d4
Concen: 5.00 ng
RT: 7.82 min Scan# 301
Delta R.T. 0.00 min
Lab File: BE091588.D
Acq: 31 Mar 2016 18:39

Instrument :
BNA_E
ClientSampleId :

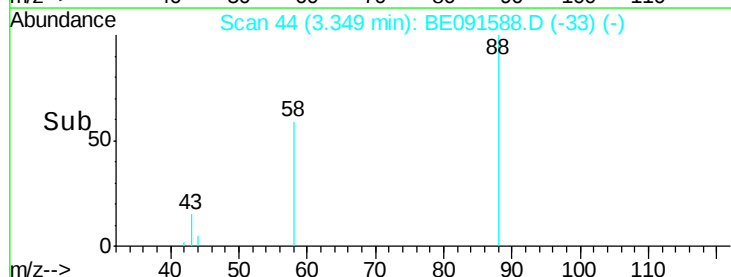
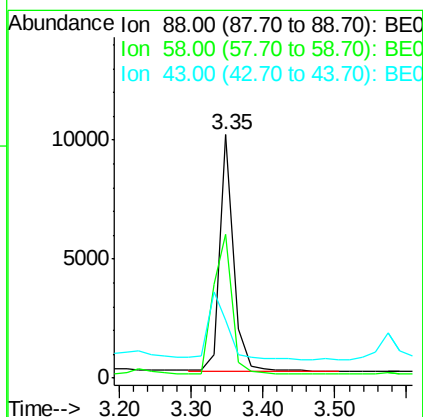
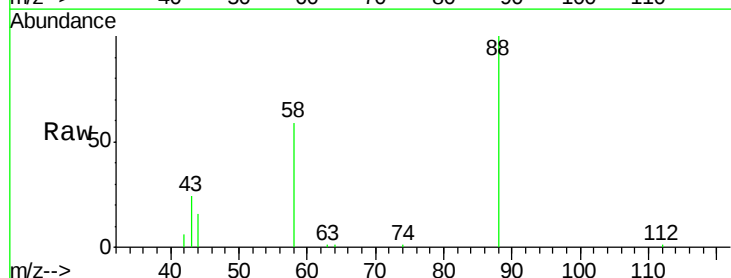
Tot Ion:152 Resp: 36435
Ion Ratio Lower Upper
152 100
150 132.3 122.2 183.2
115 44.0 45.9 68.9#

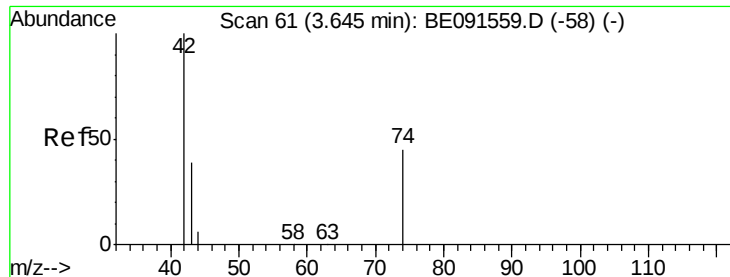


#2

1,4-Dioxane
Concen: 3.09 ng
RT: 3.35 min Scan# 44
Delta R.T. -0.02 min
Lab File: BE091588.D
Acq: 31 Mar 2016 18:39

Tgt Ion: 88 Resp: 13339
Ion Ratio Lower Upper
88 100
58 80.3 61.0 91.6
43 41.1 25.4 38.2#



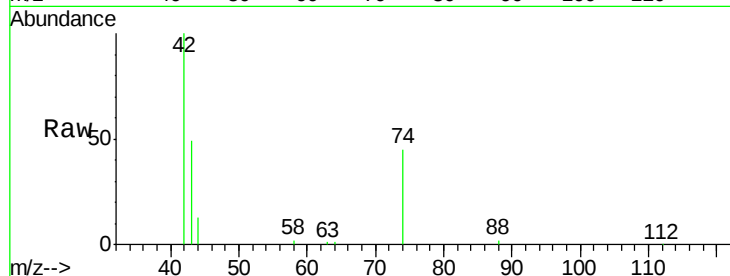


#3

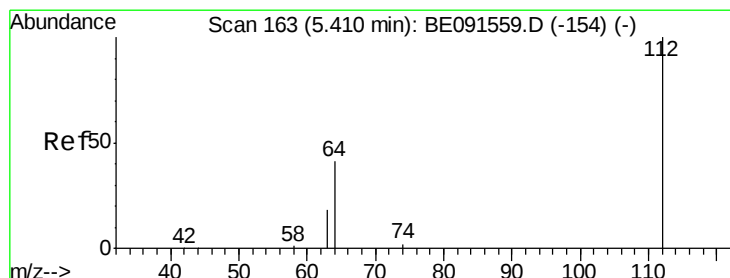
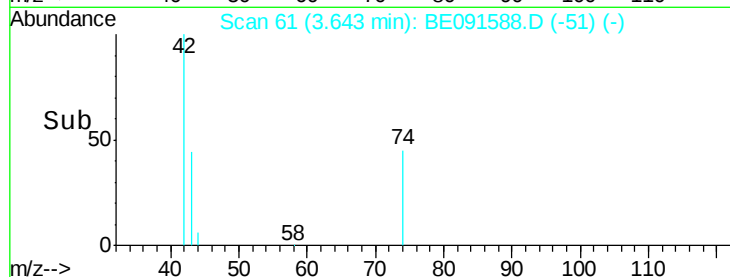
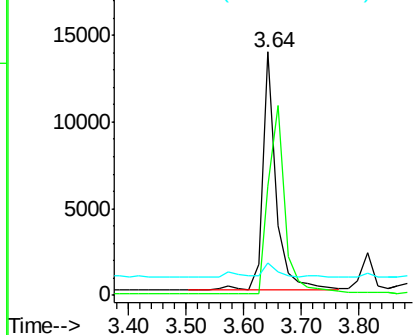
n-Nitrosodimethylamine
Concen: 3.40 ng
RT: 3.64 min Scan# 61
Delta R.T. -0.03 min
Lab File: BE091588.D
Acq: 31 Mar 2016 18:39

Instrument :
BNA_E
ClientSampleId :

Tot Ion: 42 Resp: 22503
Ion Ratio Lower Upper
42 100
74 98.3 84.3 126.5
44 5.6 6.7 10.1#



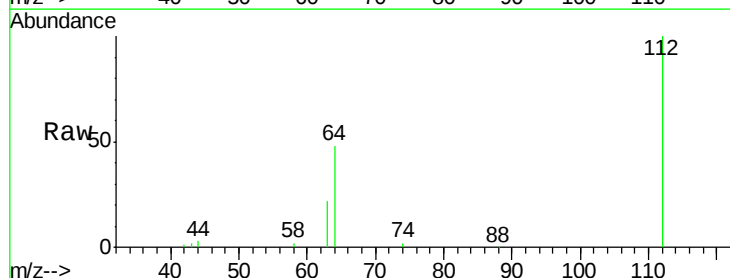
Abundance Ion 42.00 (41.70 to 42.70): BE0
Ion 74.00 (73.70 to 74.70): BE0
Ion 44.00 (43.70 to 44.70): BE0



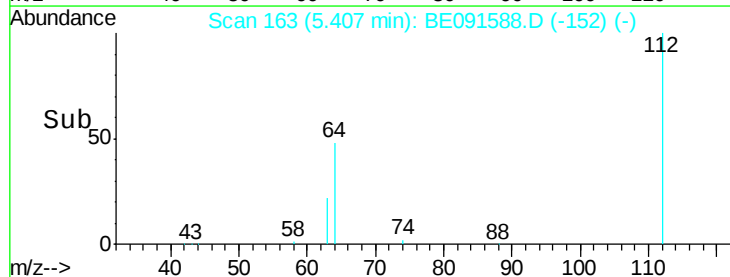
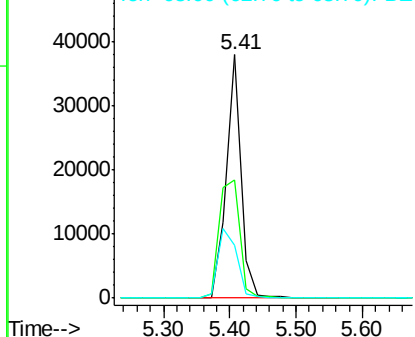
#4

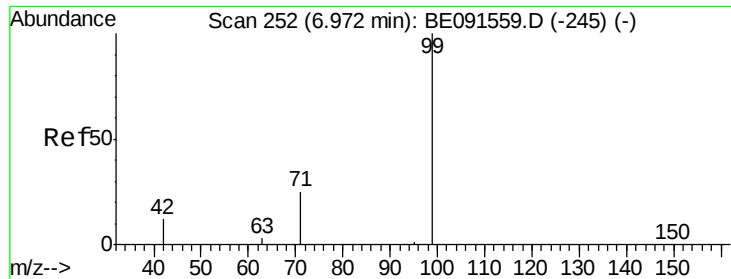
2-Fluorophenol
Concen: 6.17 ng
RT: 5.41 min Scan# 163
Delta R.T. -0.02 min
Lab File: BE091588.D
Acq: 31 Mar 2016 18:39

Tgt Ion: 112 Resp: 58898
Ion Ratio Lower Upper
112 100
64 67.1 53.3 79.9
63 36.2 29.8 44.8



Abundance Ion 112.00 (111.70 to 112.70): E
Ion 64.00 (63.70 to 64.70): BE0
Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 7.16 ng

RT: 6.97 min Scan# 252

Delta R.T. -0.02 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

Instrument :

BNA_E

ClientSampleId :

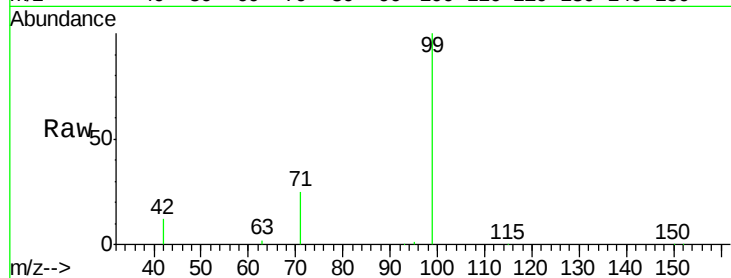
Tot Ion: 99 Resp: 92344

Ion Ratio Lower Upper

99 100

42 24.9 20.6 30.8

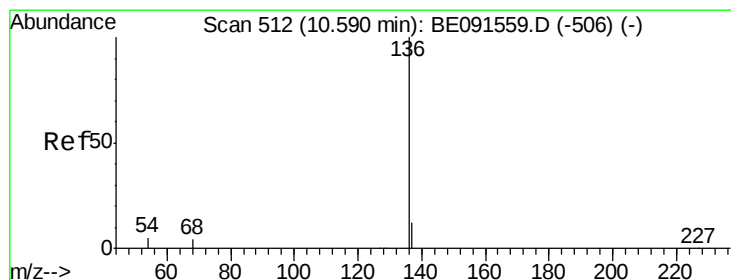
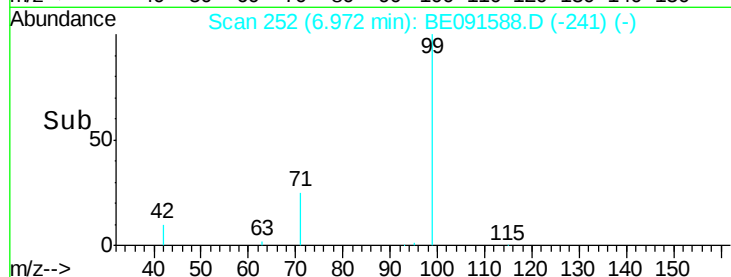
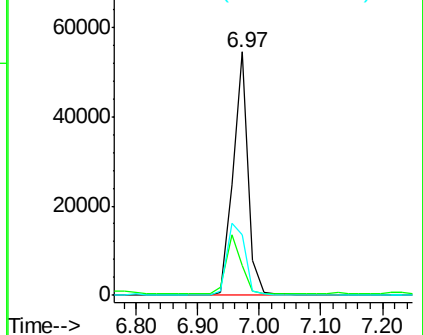
71 35.7 29.0 43.4



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: BE091588.D

Acq: 31 Mar 2016 18:39

Tgt Ion: 136 Resp: 182054

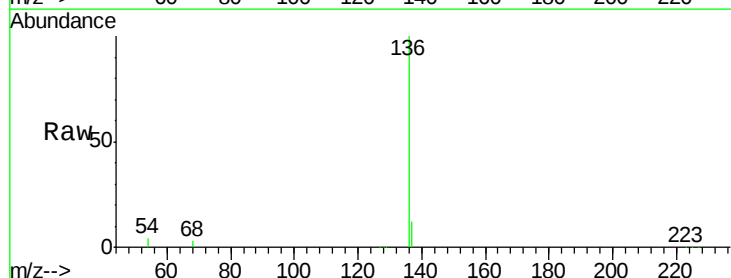
Ion Ratio Lower Upper

136 100

137 12.0 8.8 13.2

54 4.1 5.2 7.8#

68 3.4 4.1 6.1#

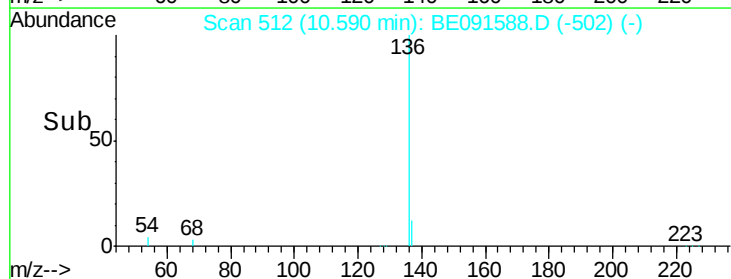
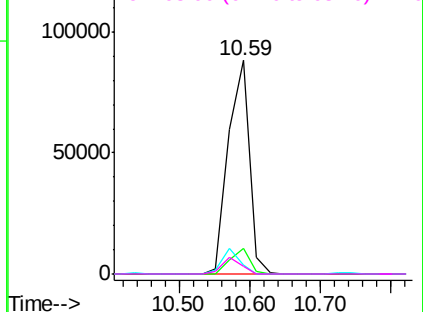


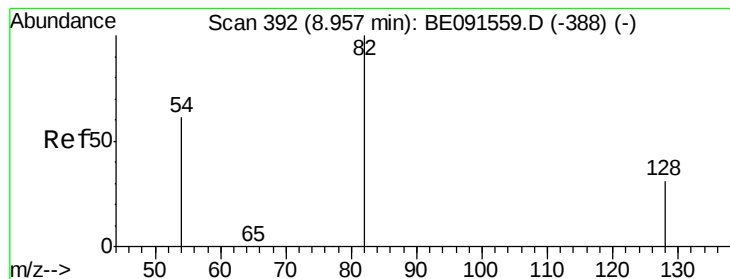
Abundance Ion 136.00 (135.70 to 136.70): E

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: 3.30 ng

RT: 8.96 min Scan# 392

Delta R.T. -0.02 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

Instrument :

BNA_E

ClientSampleId :

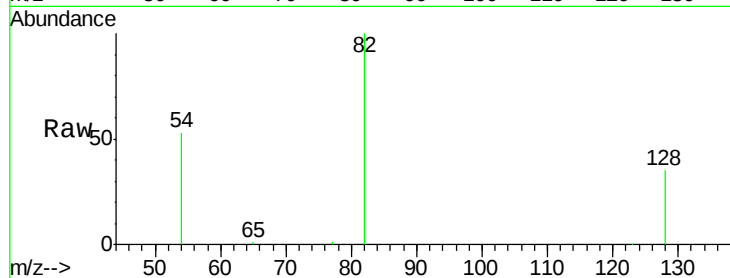
Tot Ion: 82 Resp: 40320

Ion Ratio Lower Upper

82 100

128 34.7 23.5 35.3

54 52.6 52.4 78.6

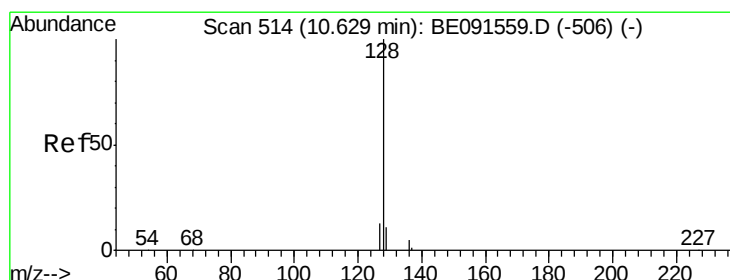
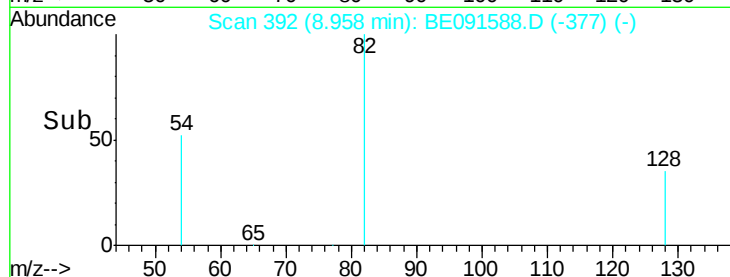


Abundance Ion 82.00 (81.70 to 82.70): BE091559.D (-388) (-)

Ion 128.00 (127.70 to 128.70): BE091559.D (-388) (-)

Ion 54.00 (53.70 to 54.70): BE091559.D (-388) (-)

Time-->



#8

Naphthalene

Concen: 3.71 ng

RT: 10.63 min Scan# 514

Delta R.T. -0.02 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

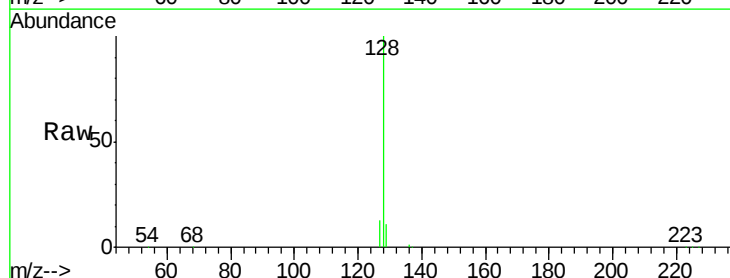
Tgt Ion: 128 Resp: 139601

Ion Ratio Lower Upper

128 100

129 11.0 8.2 12.2

127 13.1 11.8 17.8

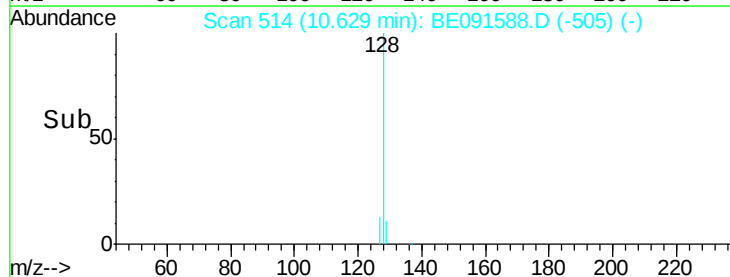


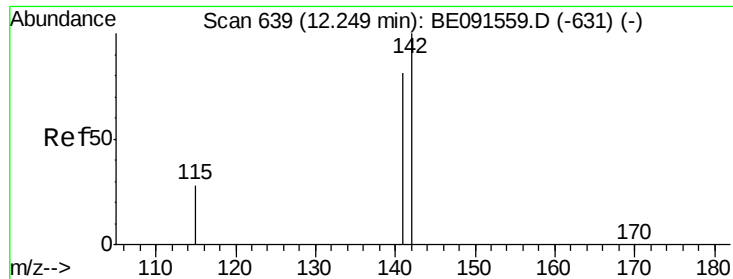
Abundance Ion 128.00 (127.70 to 128.70): BE091559.D (-506) (-)

Ion 129.00 (128.70 to 129.70): BE091559.D (-506) (-)

Ion 127.00 (126.70 to 127.70): BE091559.D (-506) (-)

Time-->





#9

2-Methylnaphthalene

Concen: 4.23 ng

RT: 12.24 min Scan# 638

Delta R.T. -0.02 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

Instrument :

BNA_E

ClientSampleId :

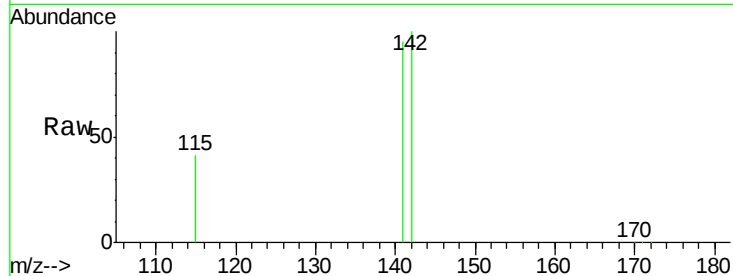
Tot Ion:142 Resp: 103960

Ion Ratio Lower Upper

142 100

141 94.9 66.9 100.3

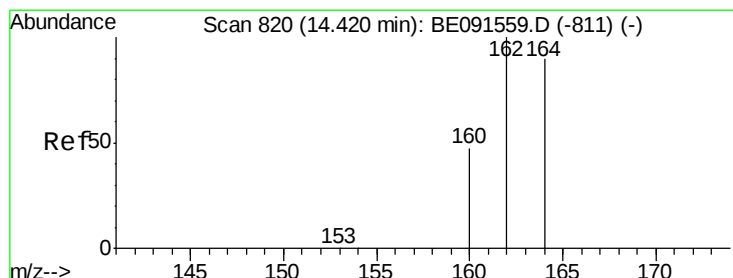
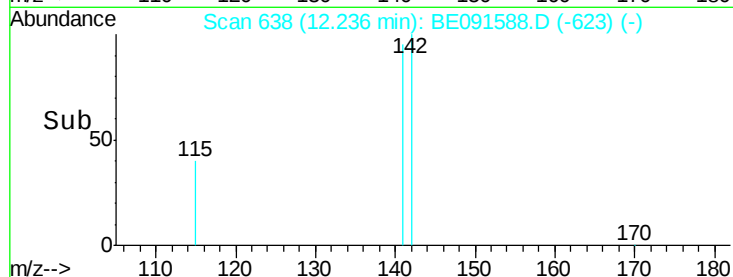
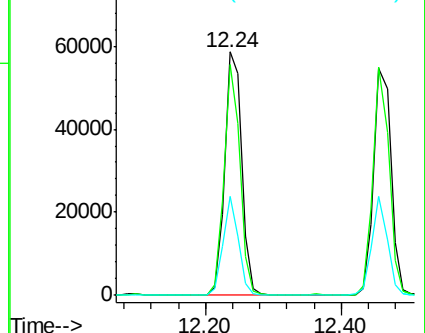
115 40.6 25.1 37.7#



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: BE091588.D

Acq: 31 Mar 2016 18:39

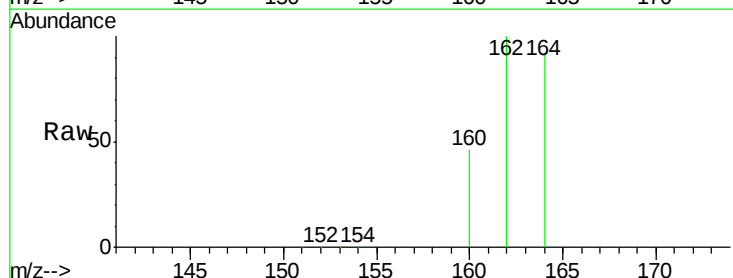
Tgt Ion:164 Resp: 111990

Ion Ratio Lower Upper

164 100

162 108.3 84.4 126.6

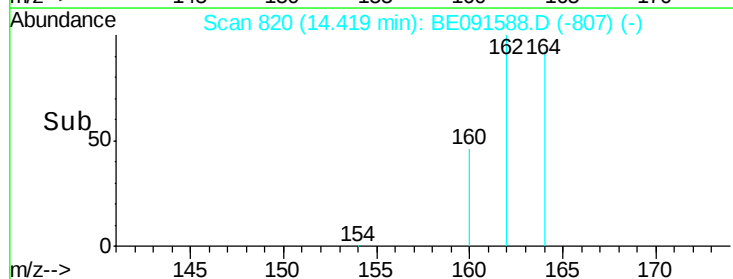
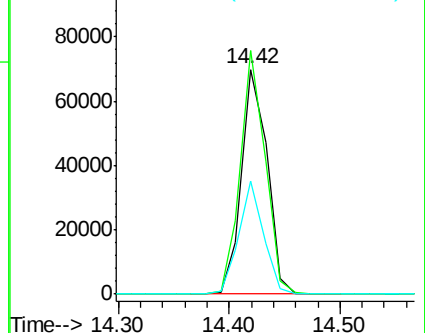
160 50.0 37.7 56.5

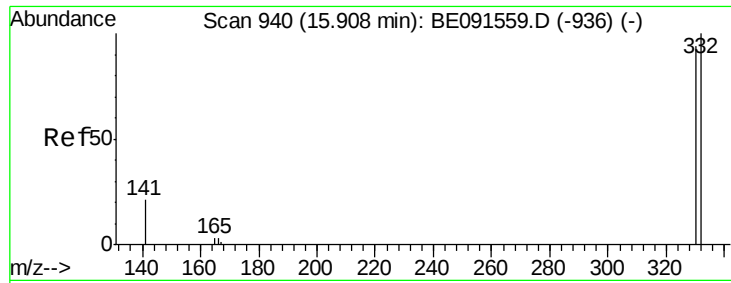


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

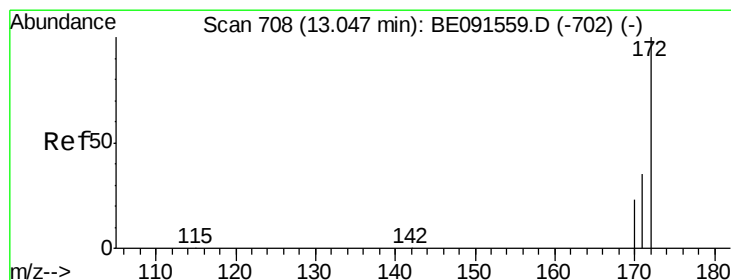
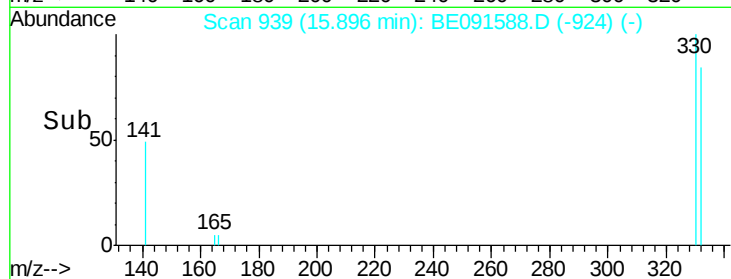
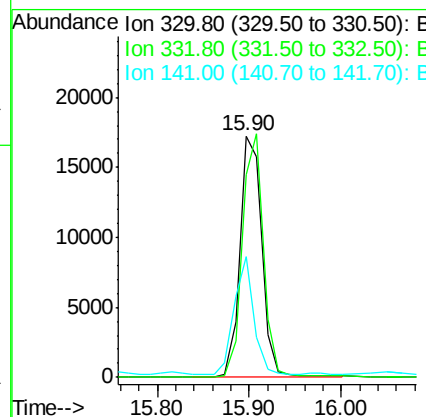
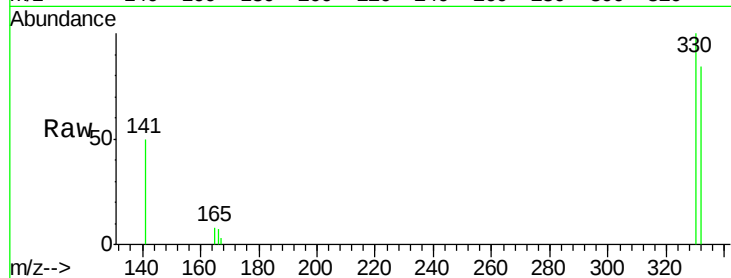




#11
 2,4,6-Tribromophenol
 Concen: 5.73 ng
 RT: 15.90 min Scan# 939
 Delta R.T. -0.02 min
 Lab File: BE091588.D
 Acq: 31 Mar 2016 18:39

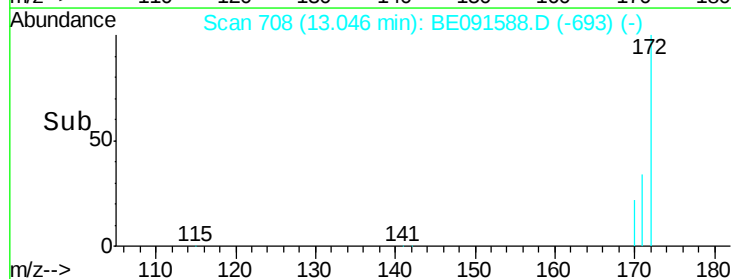
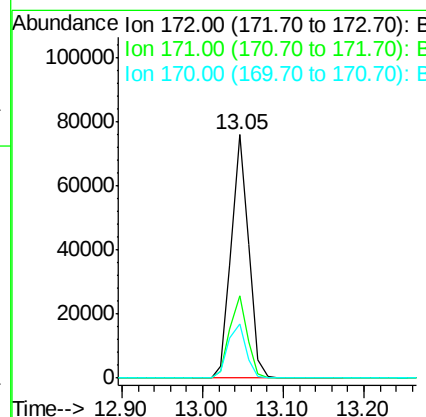
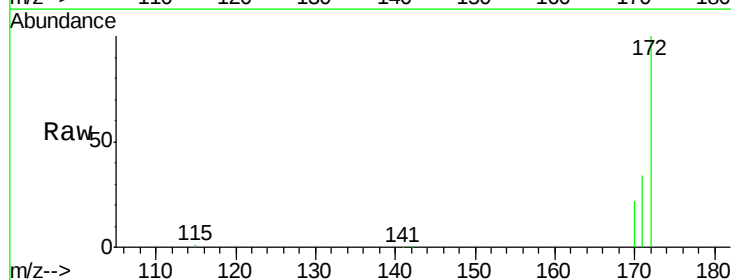
Instrument :
 BNA_E
 ClientSampleId :

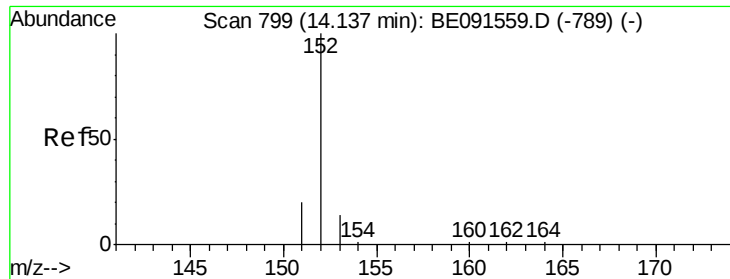
Tot Ion:330 Resp: 28413
 Ion Ratio Lower Upper
 330 100
 332 96.5 79.2 118.8
 141 44.1 28.1 42.1#



#12
 2-Fluorobiphenyl
 Concen: 3.56 ng
 RT: 13.05 min Scan# 708
 Delta R.T. -0.02 min
 Lab File: BE091588.D
 Acq: 31 Mar 2016 18:39

Tgt Ion:172 Resp: 113221
 Ion Ratio Lower Upper
 172 100
 171 34.1 29.8 44.8
 170 22.5 21.4 32.2





#13

Acenaphthylene

Concen: 4.62 ng

RT: 14.14 min Scan# 799

Delta R.T. -0.01 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

Instrument :

BNA_E

ClientSampleId :

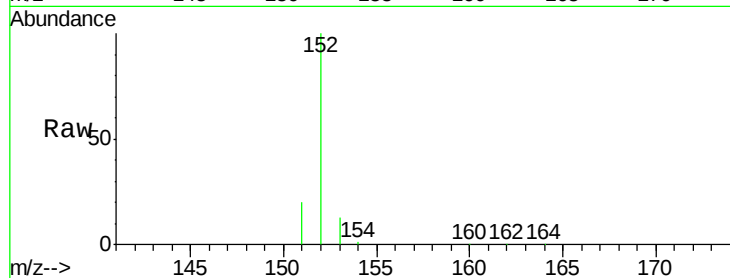
Tot Ion:152 Resp: 208517

Ion Ratio Lower Upper

152 100

151 20.3 16.3 24.5

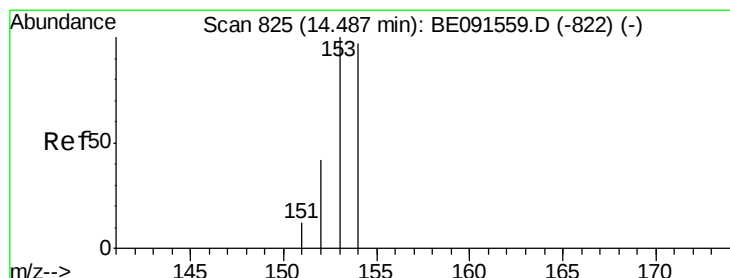
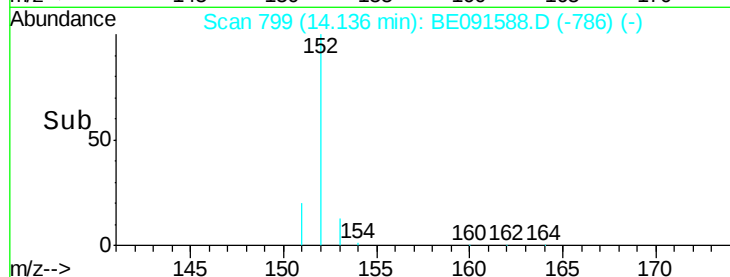
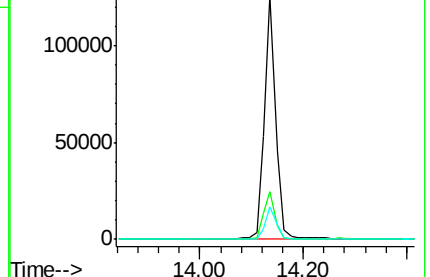
153 12.1 11.1 16.7



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



#14

Acenaphthene

Concen: 4.21 ng

RT: 14.49 min Scan# 825

Delta R.T. -0.01 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

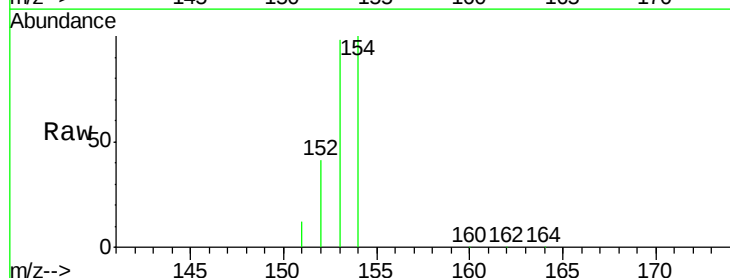
Tgt Ion:154 Resp: 116651

Ion Ratio Lower Upper

154 100

153 102.3 87.3 130.9

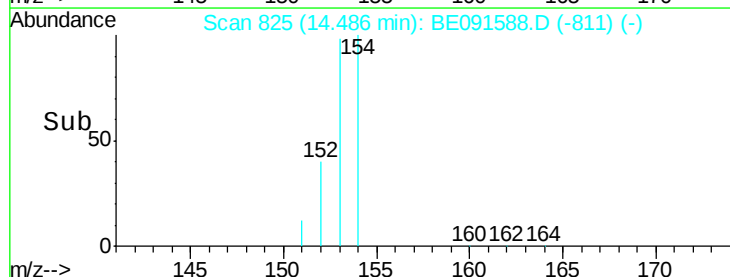
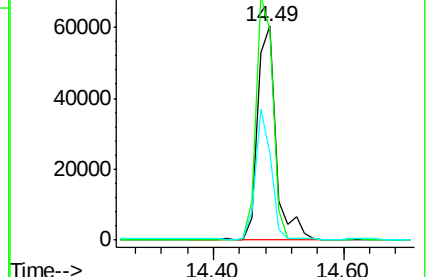
152 50.3 42.9 64.3

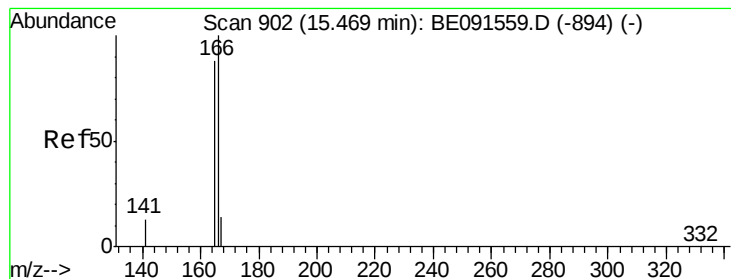


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#15

Fluorene

Concen: 4.16 ng

RT: 15.46 min Scan# 901

Delta R.T. -0.02 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

Instrument :

BNA_E

ClientSampleId :

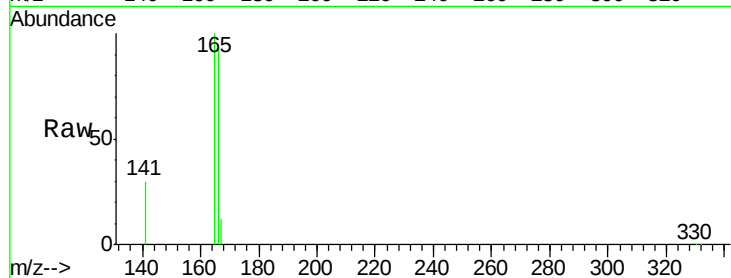
Tot Ion:166 Resp: 148227

Ion Ratio Lower Upper

166 100

165 99.0 79.2 118.8

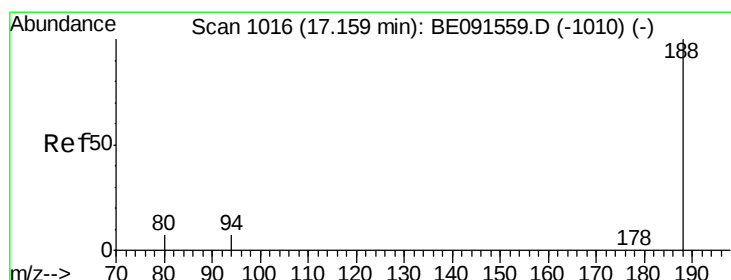
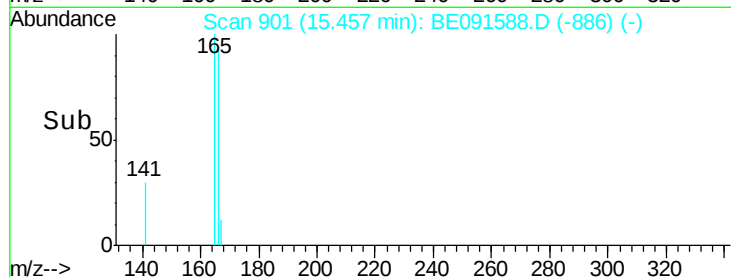
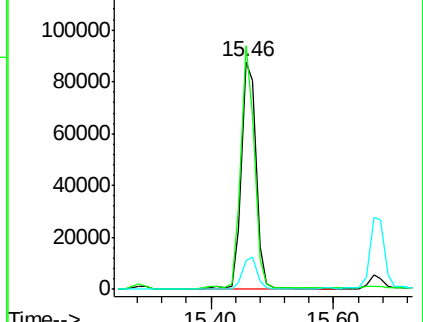
167 13.5 10.8 16.2



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



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.16 min Scan# 1017

Delta R.T. -0.01 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

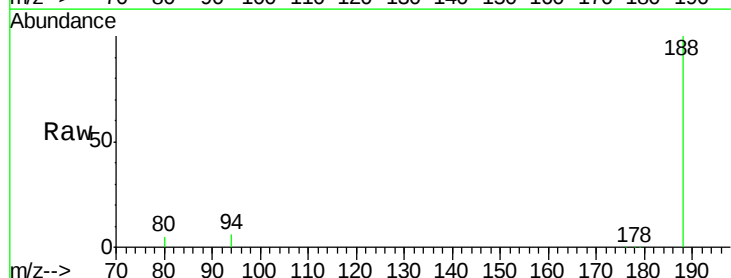
Tgt Ion:188 Resp: 270644

Ion Ratio Lower Upper

188 100

94 5.5 5.4 8.2

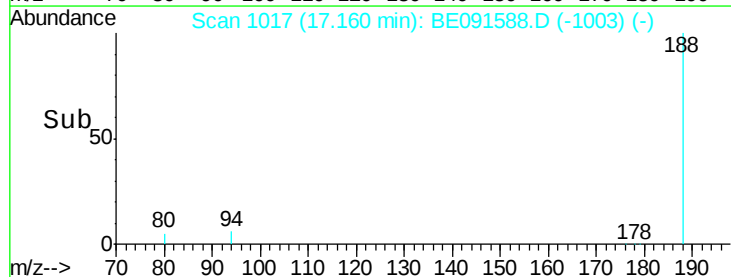
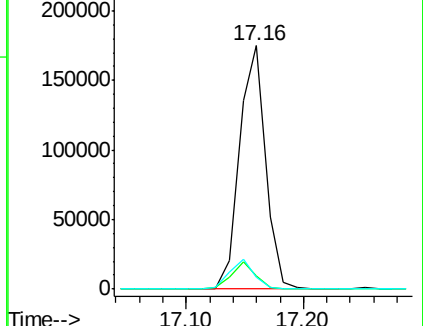
80 4.7 5.0 7.4#

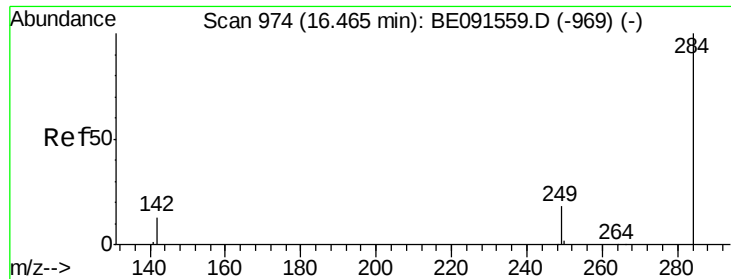


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

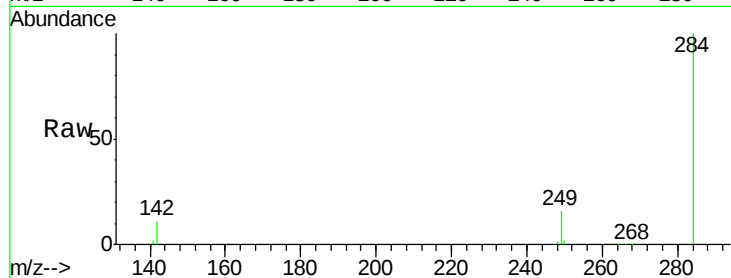




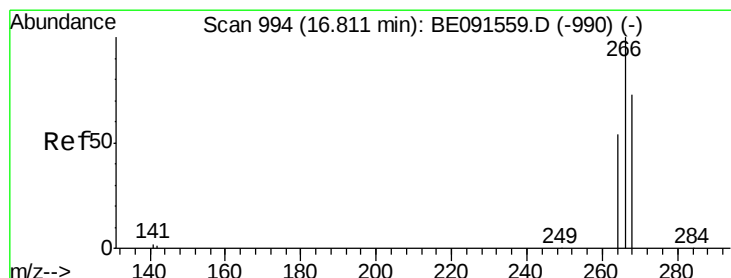
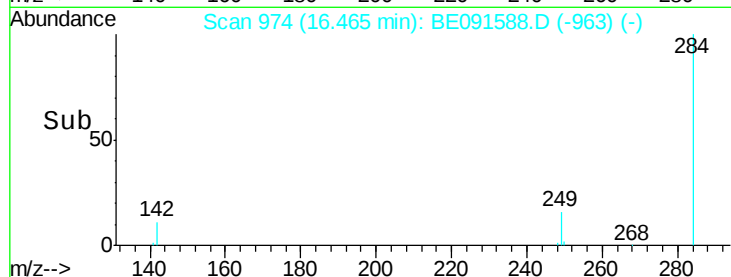
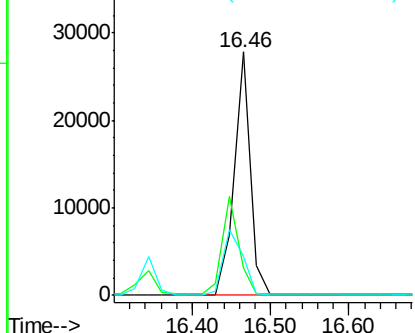
#17
Hexachlorobenzene
Concen: 3.99 ng
RT: 16.46 min Scan# 974
Delta R.T. -0.02 min
Lab File: BE091588.D
Acq: 31 Mar 2016 18:39

Instrument :
BNA_E
ClientSampleId :

Tot Ion:284 Resp: 39676
Ion Ratio Lower Upper
284 100
142 40.5 31.0 46.4
249 32.0 25.8 38.8

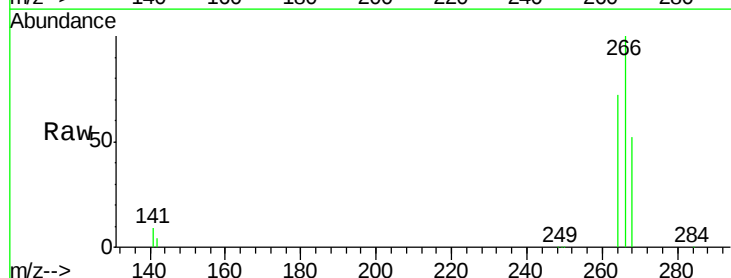


Abundance Ion 283.80 (283.50 to 284.50): E
Ion 142.00 (141.70 to 142.70): E
Ion 249.00 (248.70 to 249.70): E

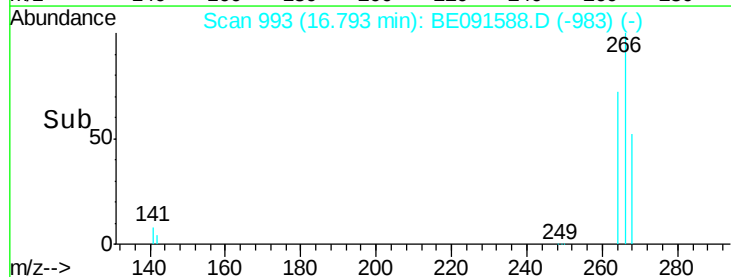
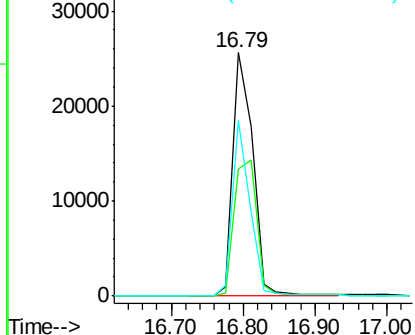


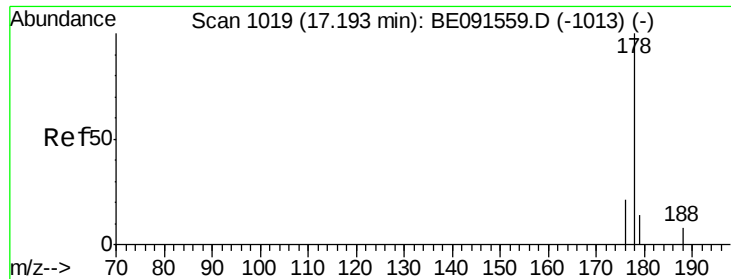
#18
Pentachlorophenol
Concen: 8.68 ng
RT: 16.79 min Scan# 993
Delta R.T. -0.03 min
Lab File: BE091588.D
Acq: 31 Mar 2016 18:39

Tgt Ion:266 Resp: 48532
Ion Ratio Lower Upper
266 100
268 52.3 48.2 72.2
264 72.4 52.1 78.1



Abundance Ion 265.70 (265.40 to 266.40): E
Ion 268.00 (267.70 to 268.70): E
Ion 264.00 (263.70 to 264.70): E





#19

Phenanthrene

Concen: 6.71 ng

RT: 17.19 min Scan# 1020

Delta R.T. -0.01 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

Instrument :

BNA_E

ClientSampleId :

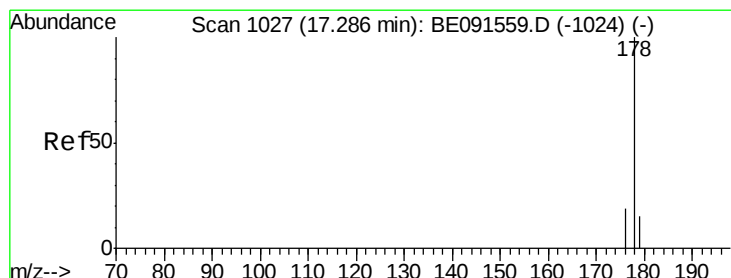
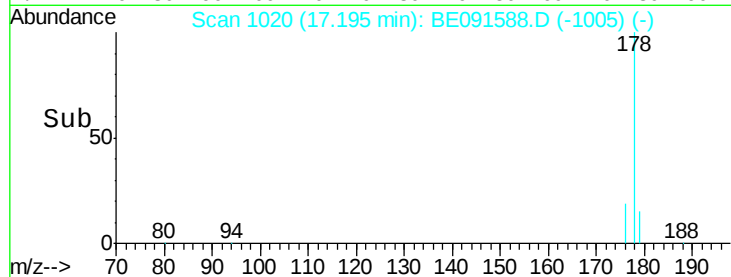
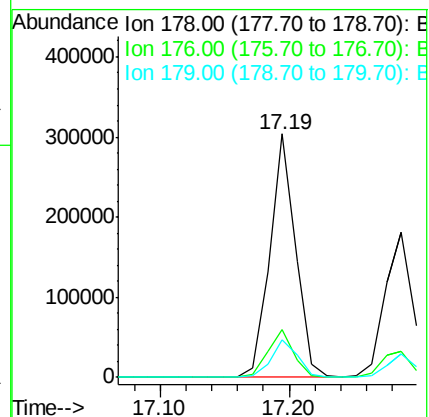
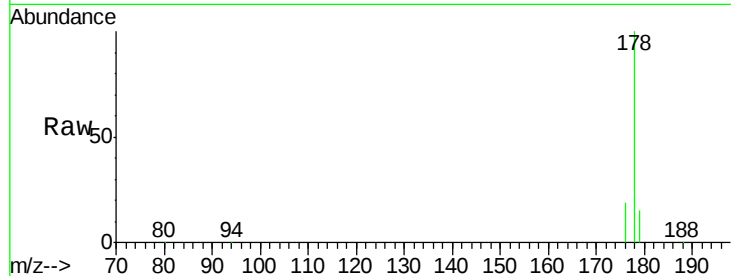
Tot Ion:178 Resp: 425065

Ion Ratio Lower Upper

178 100

176 19.5 15.5 23.3

179 15.6 13.1 19.7



#20

Anthracene

Concen: 4.72 ng

RT: 17.29 min Scan# 1028

Delta R.T. -0.01 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

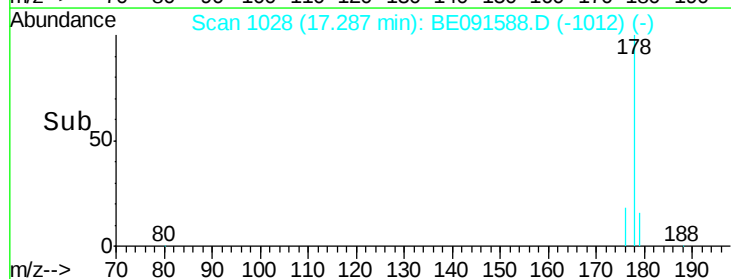
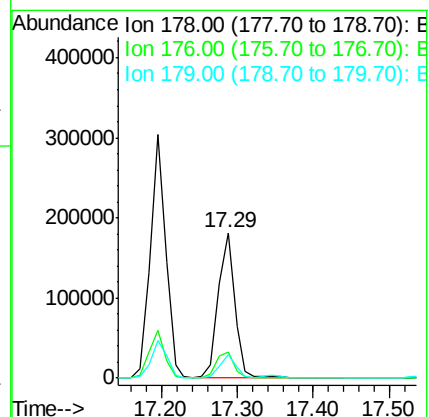
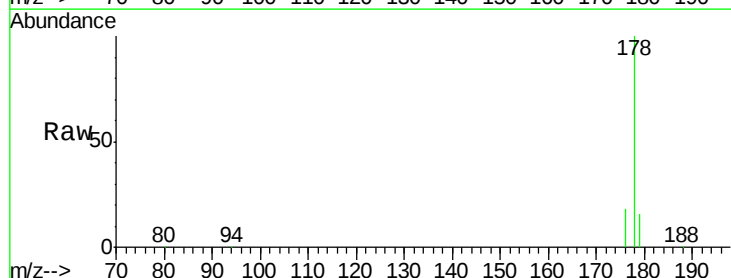
Tgt Ion:178 Resp: 276073

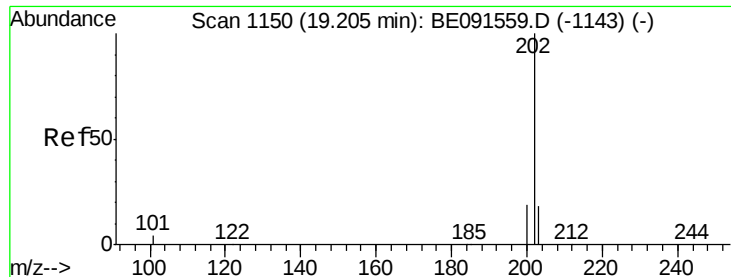
Ion Ratio Lower Upper

178 100

176 19.0 14.9 22.3

179 15.4 12.2 18.4

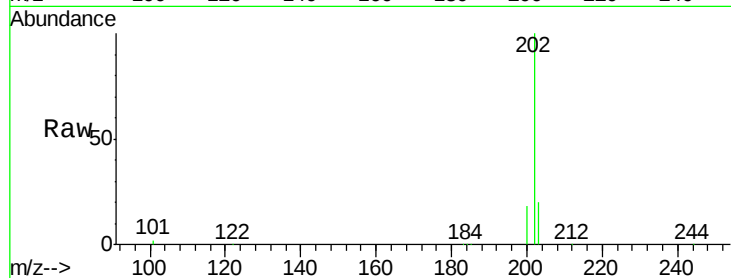




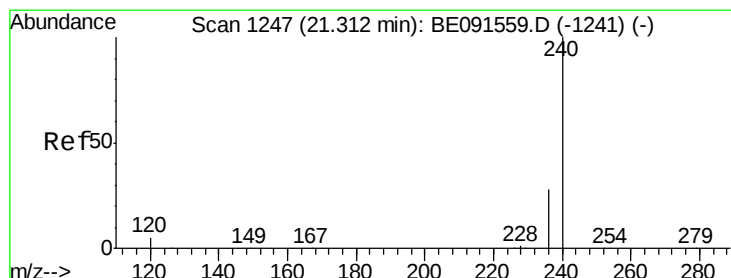
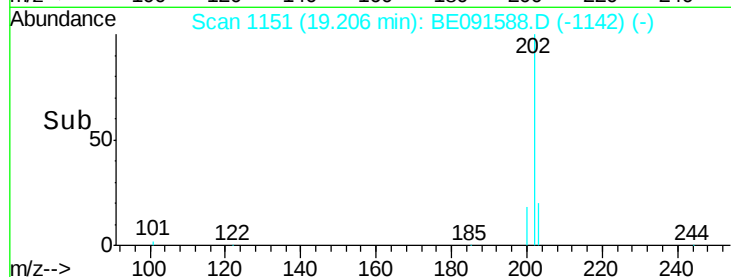
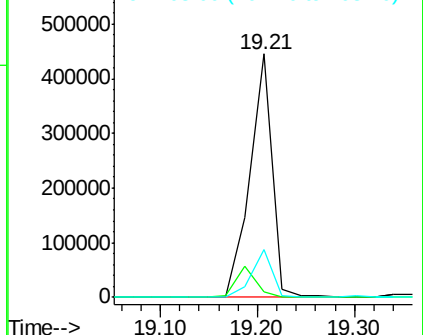
#21
Fluoranthene
Concen: 9.41 ng
RT: 19.21 min Scan# 1151
Delta R.T. -0.02 min
Lab File: BE091588.D
Acq: 31 Mar 2016 18:39

Instrument :
BNA_E
ClientSampleId :

Tot Ion:202 Resp: 702656
Ion Ratio Lower Upper
202 100
101 11.6 8.3 12.5
203 18.2 13.9 20.9

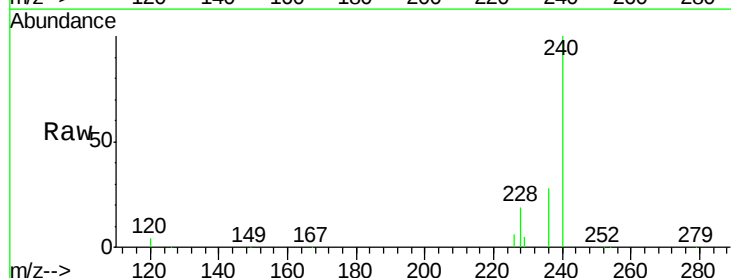


Abundance Ion 202.00 (201.70 to 202.70): E
Ion 101.00 (100.70 to 101.70): E
Ion 203.00 (202.70 to 203.70): E

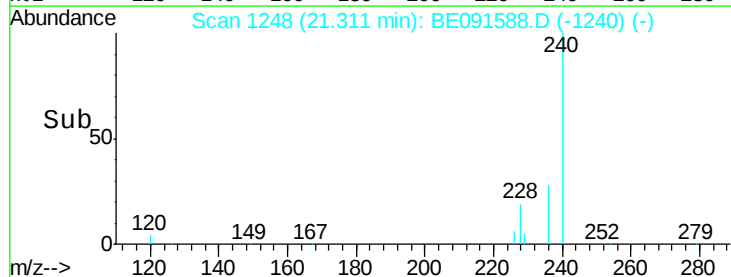
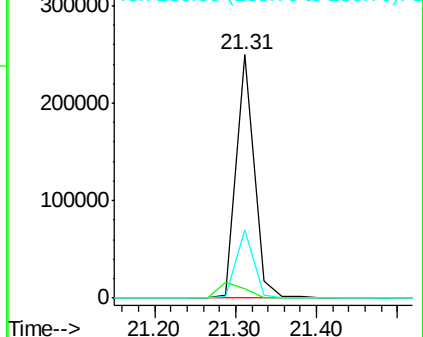


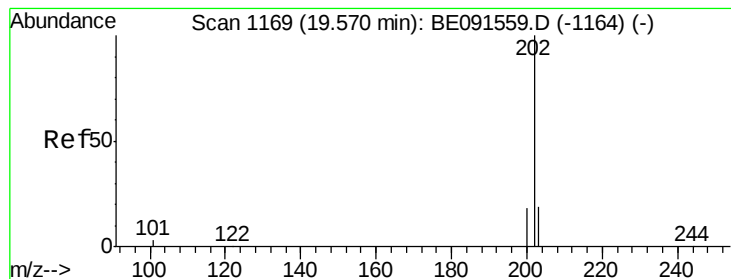
#22
Chrysene-d12
Concen: 5.00 ng
RT: 21.31 min Scan# 1248
Delta R.T. -0.02 min
Lab File: BE091588.D
Acq: 31 Mar 2016 18:39

Tgt Ion:240 Resp: 378848
Ion Ratio Lower Upper
240 100
120 4.0 4.0 6.0
236 27.9 23.0 34.4



Abundance Ion 240.00 (239.70 to 240.70): E
Ion 120.00 (119.70 to 120.70): E
Ion 236.00 (235.70 to 236.70): E





#23

Pvrene

Concen: 9.12 ng

RT: 19.57 min Scan# 1170

Delta R.T. 0.00 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

Instrument :

BNA_E

ClientSampleId :

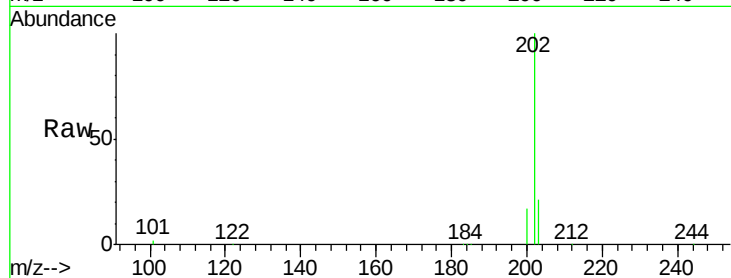
Tot Ion:202 Resp: 704214

Ion Ratio Lower Upper

202 100

200 21.2 16.4 24.6

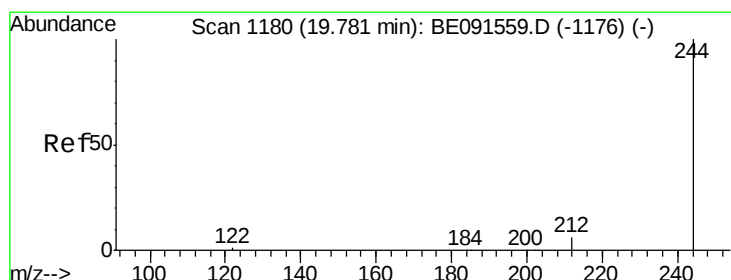
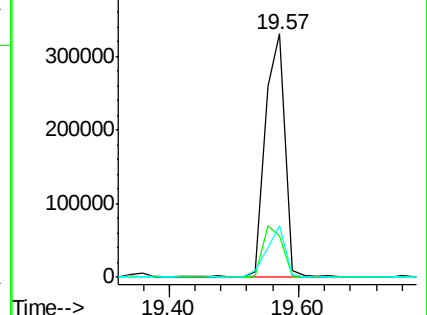
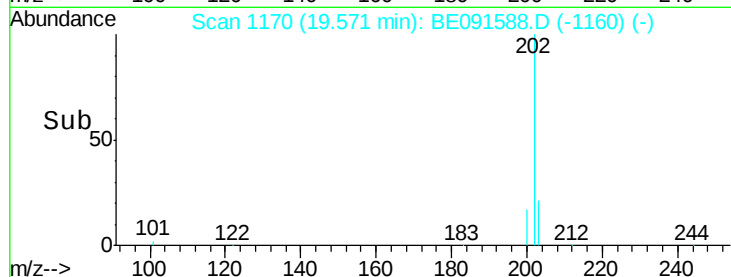
203 20.3 14.6 21.8



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#24

Terphenyl-d14

Concen: 3.59 ng

RT: 19.76 min Scan# 1180

Delta R.T. -0.02 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

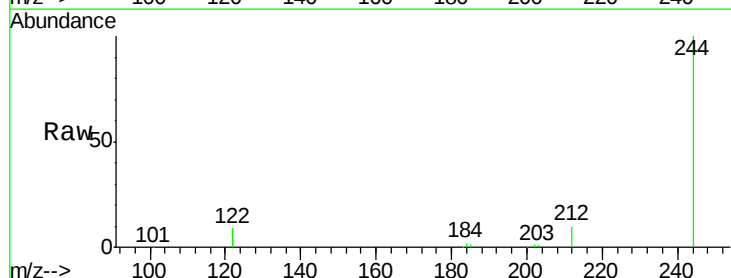
Tgt Ion:244 Resp: 172570

Ion Ratio Lower Upper

244 100

212 9.8 5.8 8.8#

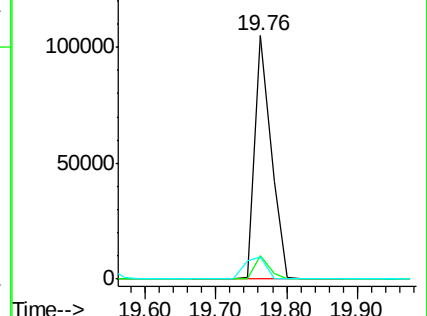
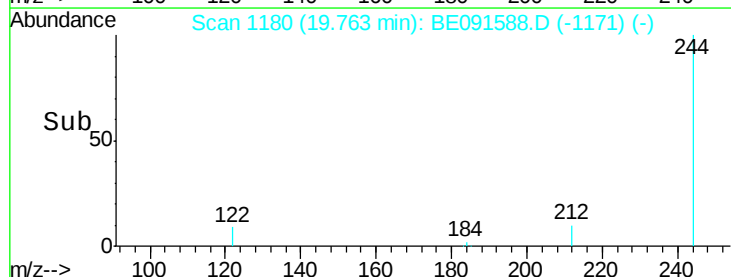
122 9.3 1.8 2.8#

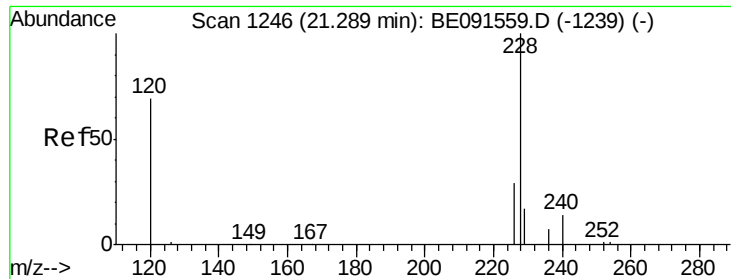


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

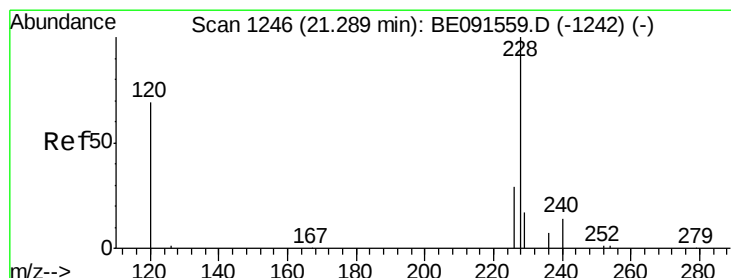
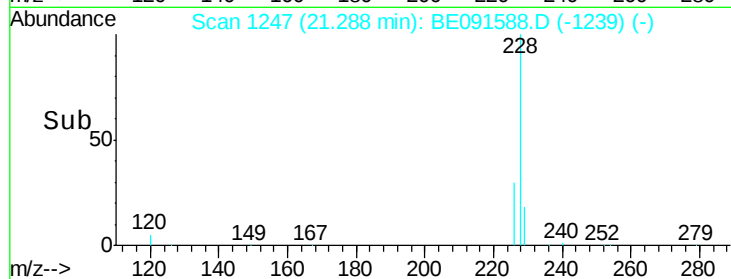
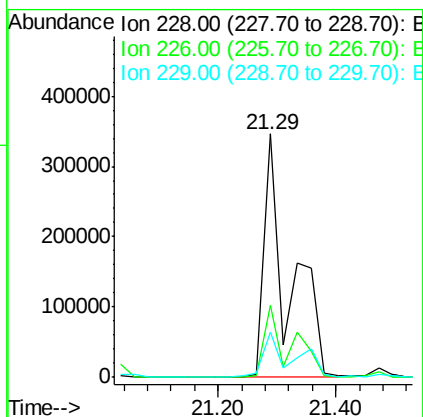
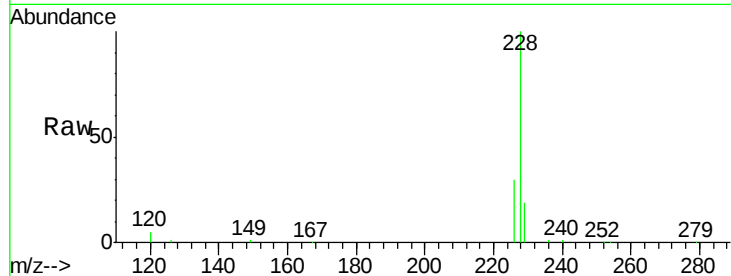




#25
Benzo(a)anthracene
Concen: 11.22 ng
RT: 21.29 min Scan# 1247
Delta R.T. -0.02 min
Lab File: BE091588.D
Acq: 31 Mar 2016 18:39

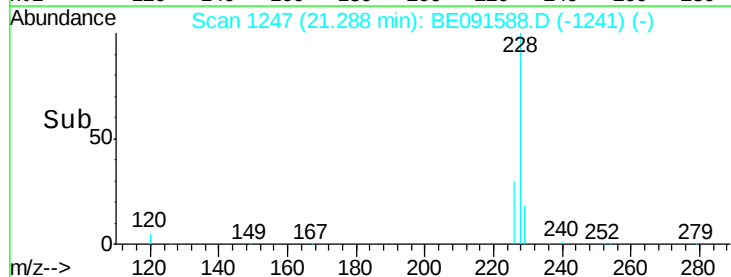
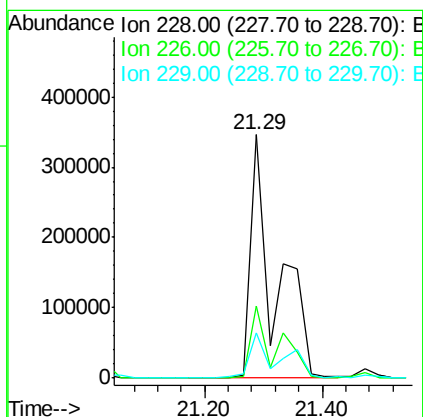
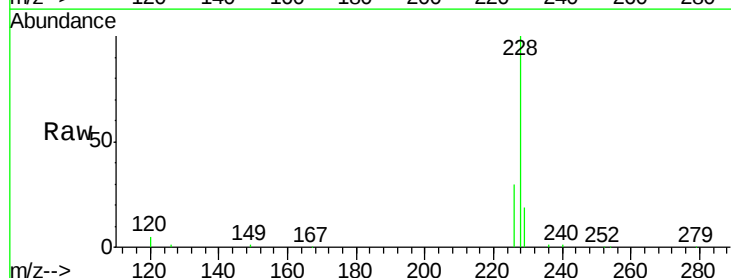
Instrument :
BNA_E
ClientSampleId :

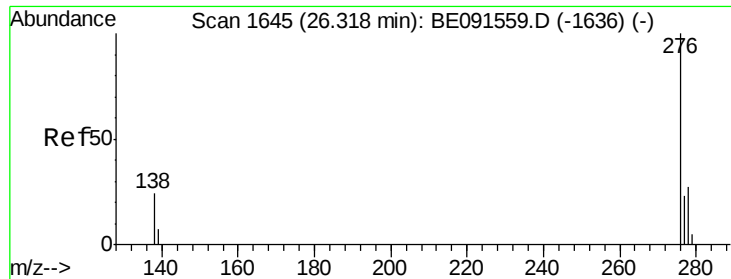
Tot Ion:228 Resp: 998224
Ion Ratio Lower Upper
228 100
226 29.8 24.0 36.0
229 18.5 13.8 20.6



#26
Chrysene
Concen: 13.13 ng
RT: 21.29 min Scan# 1247
Delta R.T. -0.07 min
Lab File: BE091588.D
Acq: 31 Mar 2016 18:39

Tgt Ion:228 Resp: 999110
Ion Ratio Lower Upper
228 100
226 29.8 18.9 28.3#
229 18.5 19.1 28.7#

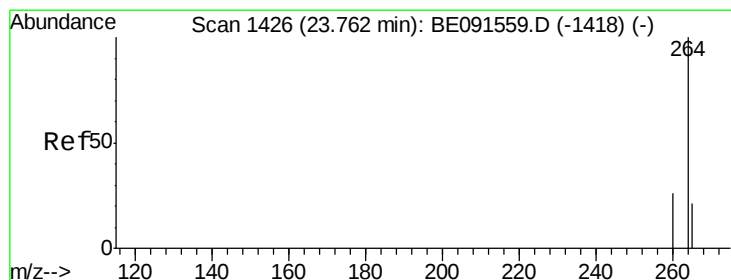
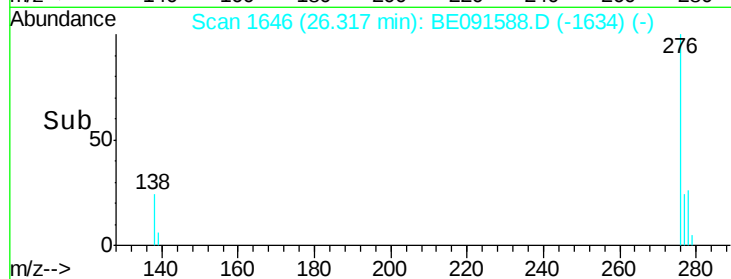
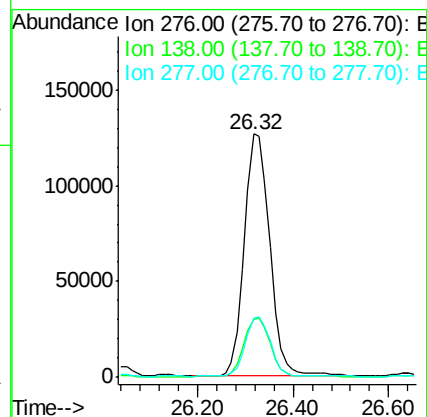
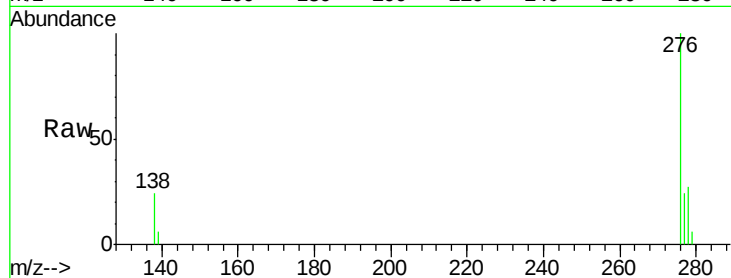




#27
 Indeno(1,2,3-cd)pyrene
 Concen: 5.36 ng
 RT: 26.32 min Scan# 1646
 Delta R.T. -0.06 min
 Lab File: BE091588.D
 Acq: 31 Mar 2016 18:39

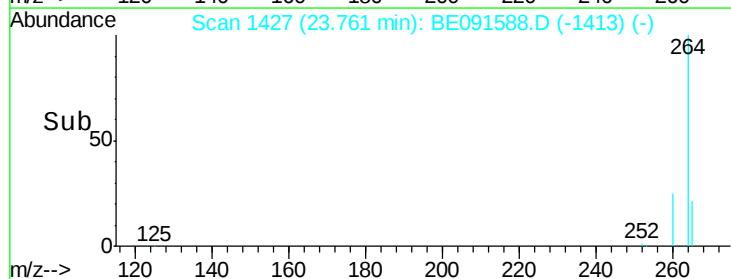
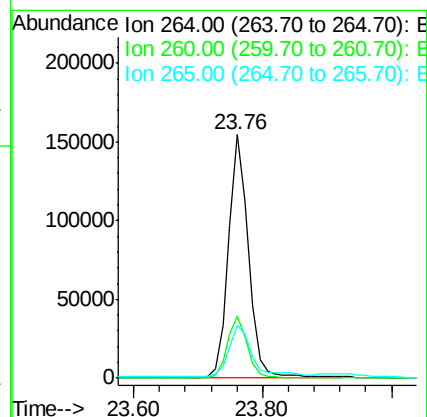
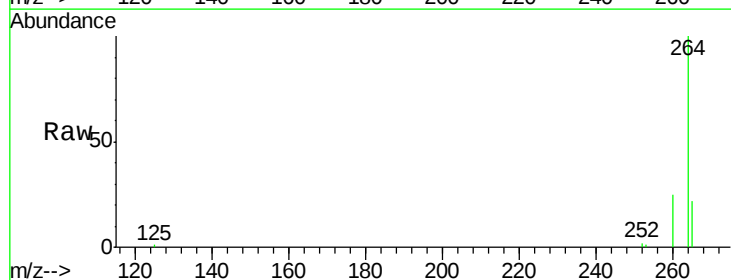
Instrument :
 BNA_E
 ClientSampleId :

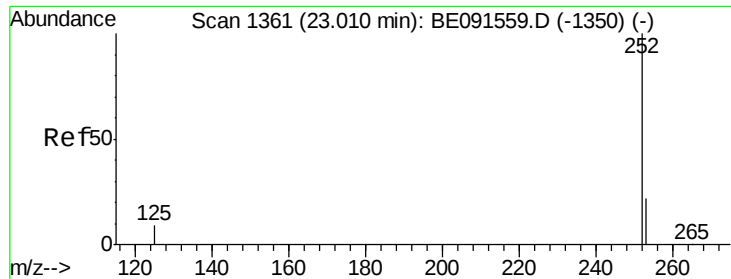
Tot Ion:276 Resp: 470153
 Ion Ratio Lower Upper
 276 100
 138 24.4 20.2 30.4
 277 23.8 19.8 29.8



#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 23.76 min Scan# 1427
 Delta R.T. -0.03 min
 Lab File: BE091588.D
 Acq: 31 Mar 2016 18:39

Tgt Ion:264 Resp: 330471
 Ion Ratio Lower Upper
 264 100
 260 25.2 20.1 30.1
 265 21.9 18.3 27.5

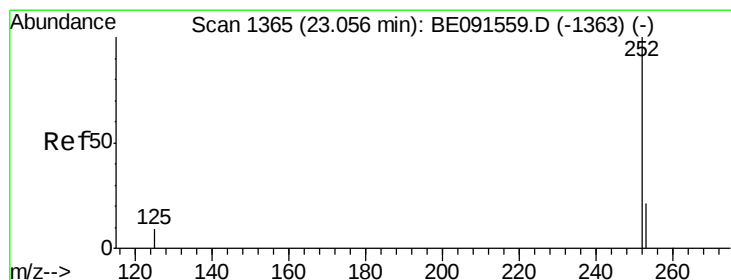
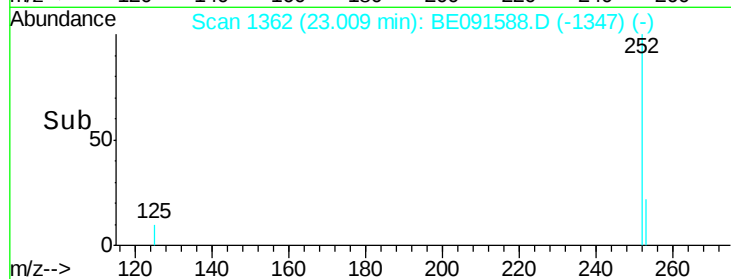
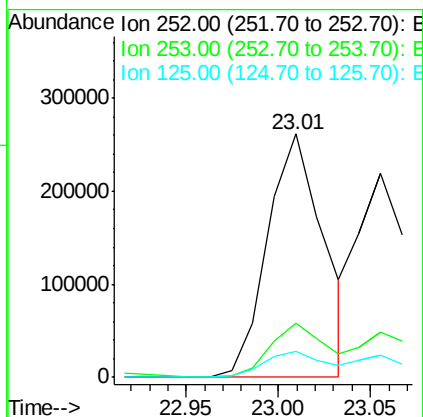
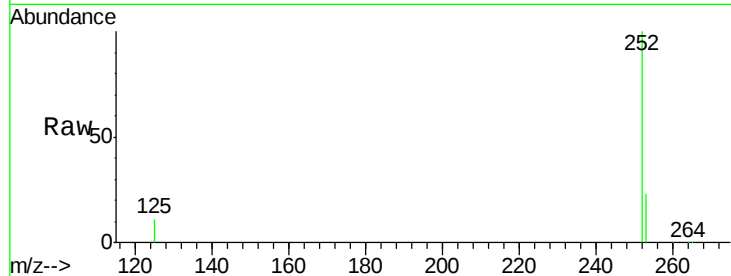




#29
Benzo(b)fluoranthene
Concen: 6.89 ng
RT: 23.01 min Scan# 1362
Delta R.T. -0.02 min
Lab File: BE091588.D
Acq: 31 Mar 2016 18:39

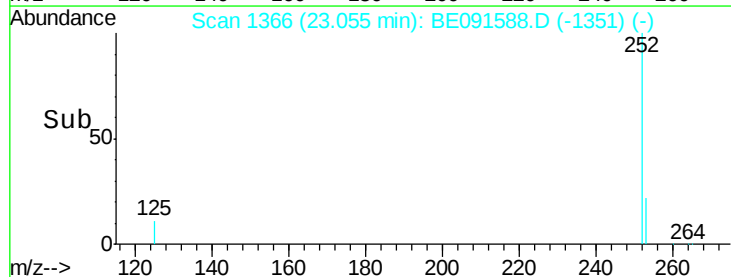
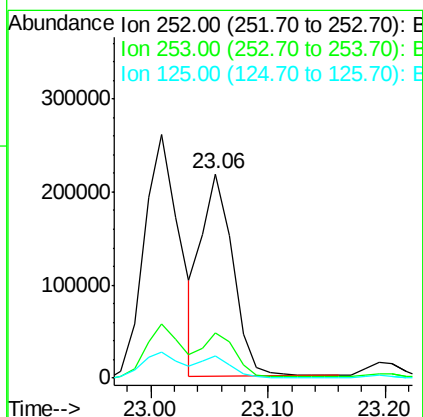
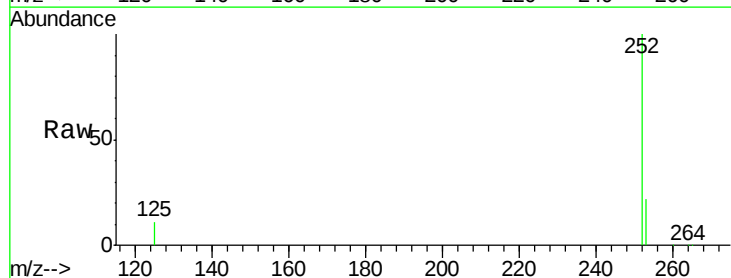
Instrument :
BNA_E
ClientSampleId :

Tot Ion:252 Resp: 551865
Ion Ratio Lower Upper
252 100
253 22.5 18.7 28.1
125 10.7 9.8 14.6



#30
Benzo(k)fluoranthene
Concen: 5.25 ng
RT: 23.06 min Scan# 1366
Delta R.T. -0.02 min
Lab File: BE091588.D
Acq: 31 Mar 2016 18:39

Tgt Ion:252 Resp: 407554
Ion Ratio Lower Upper
252 100
253 22.0 20.2 30.4
125 10.8 9.4 14.2





#31

Benzo(a)pyrene

Concen: 1.78 ng

RT: 23.54 min Scan# 1408

Delta R.T. -0.14 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

Instrument :

BNA_E

ClientSampleId :

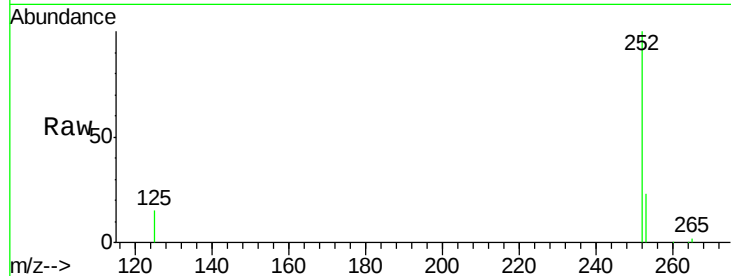
Tot Ion:252 Resp: 130401

Ion Ratio Lower Upper

252 100

253 22.7 19.4 29.0

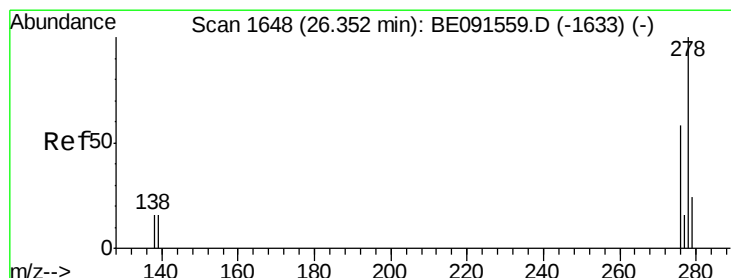
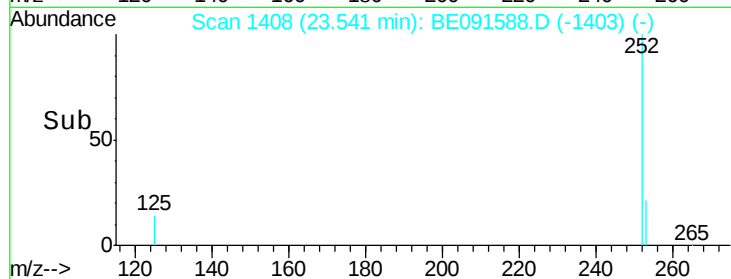
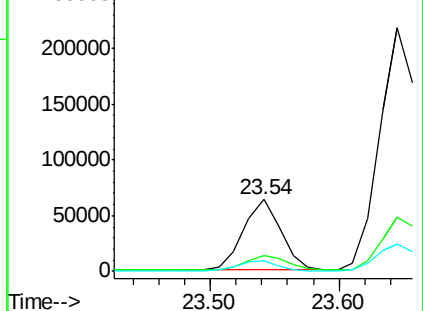
125 14.7 11.4 17.2



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#32

Dibenzo(a,h)anthracene

Concen: 4.28 ng

RT: 26.35 min Scan# 1649

Delta R.T. -0.05 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

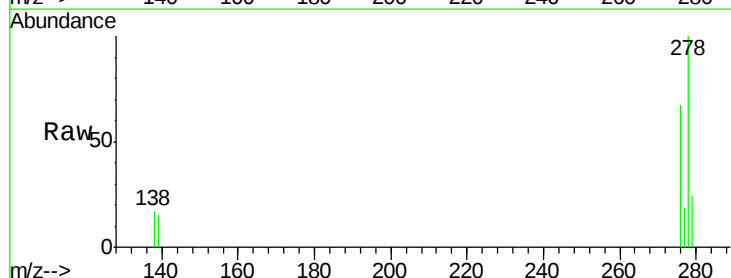
Tgt Ion:278 Resp: 307846

Ion Ratio Lower Upper

278 100

139 15.5 14.2 21.4

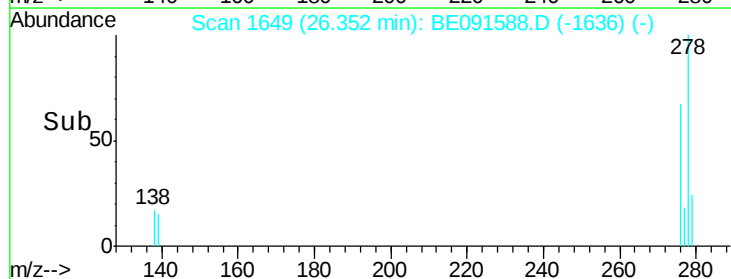
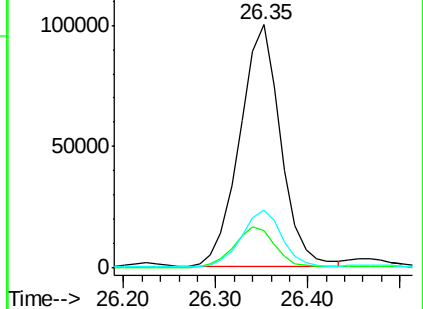
279 24.1 19.6 29.4

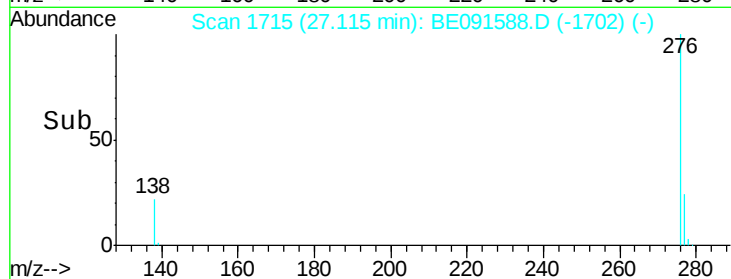
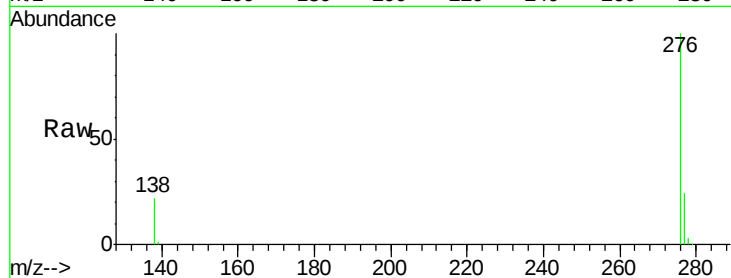
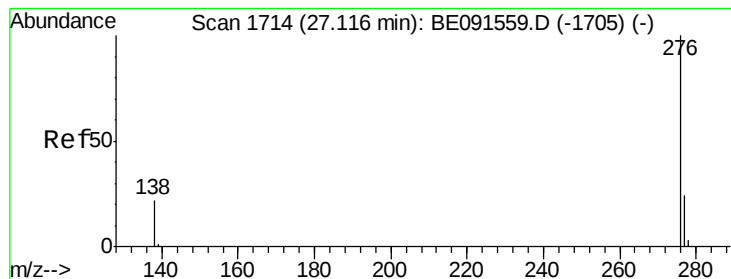


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#33

Benzo(a,h,i)perylene

Concen: 5.71 ng

RT: 27.12 min Scan# 1715

Delta R.T. -0.05 min

Lab File: BE091588.D

Acq: 31 Mar 2016 18:39

Instrument :

BNA_E

ClientSampleId :

Tot Ion: 276 Resp: 418873

Ion Ratio Lower Upper

276 100

277 24.0 19.4 29.2

138 21.8 18.2 27.4

