

Data Path : Z:\HPCHEM1\BNA E\DATA\BE080416\
 Data File : BE092210.D
 Acq On : 5 Aug 2016 8:55
 Operator : UM/SJ
 Sample : H4288-23MSD
 Misc :
 ALS Vial : 25 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Aug 05 17:16:38 2016
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-PAH-BE080216.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Aug 02 16:59:37 2016
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	8.17	152	12699	5.00	ng	0.00
6) Naphthalene-d8	10.98	136	57085	5.00	ng	-0.01
10) Acenaphthene-d10	14.83	164	30606	5.00	ng	-0.02
16) Phenanthrene-d10	17.56	188	68420	5.00	ng	-0.02
22) Chrysene-d12	21.75	240	80672	5.00	ng	0.00
28) Perylene-d12	24.14	264	87143	5.00	ng	0.00

System Monitoring Compounds						
4) 2-Fluorophenol	5.69	112	13151	4.03	ng	0.00
5) Phenol-d6	7.35	99	11690	2.69	ng	0.00
7) Nitrobenzene-d5	9.34	82	15226	3.38	ng	-0.01
11) 2,4,6-Tribromophenol	16.32	330	8212	8.26	ng	-0.01
12) 2-Fluorobiphenyl	13.45	172	32150	3.31	ng	-0.01
24) Terphenyl-d14	20.19	244	45585	3.93	ng	-0.02

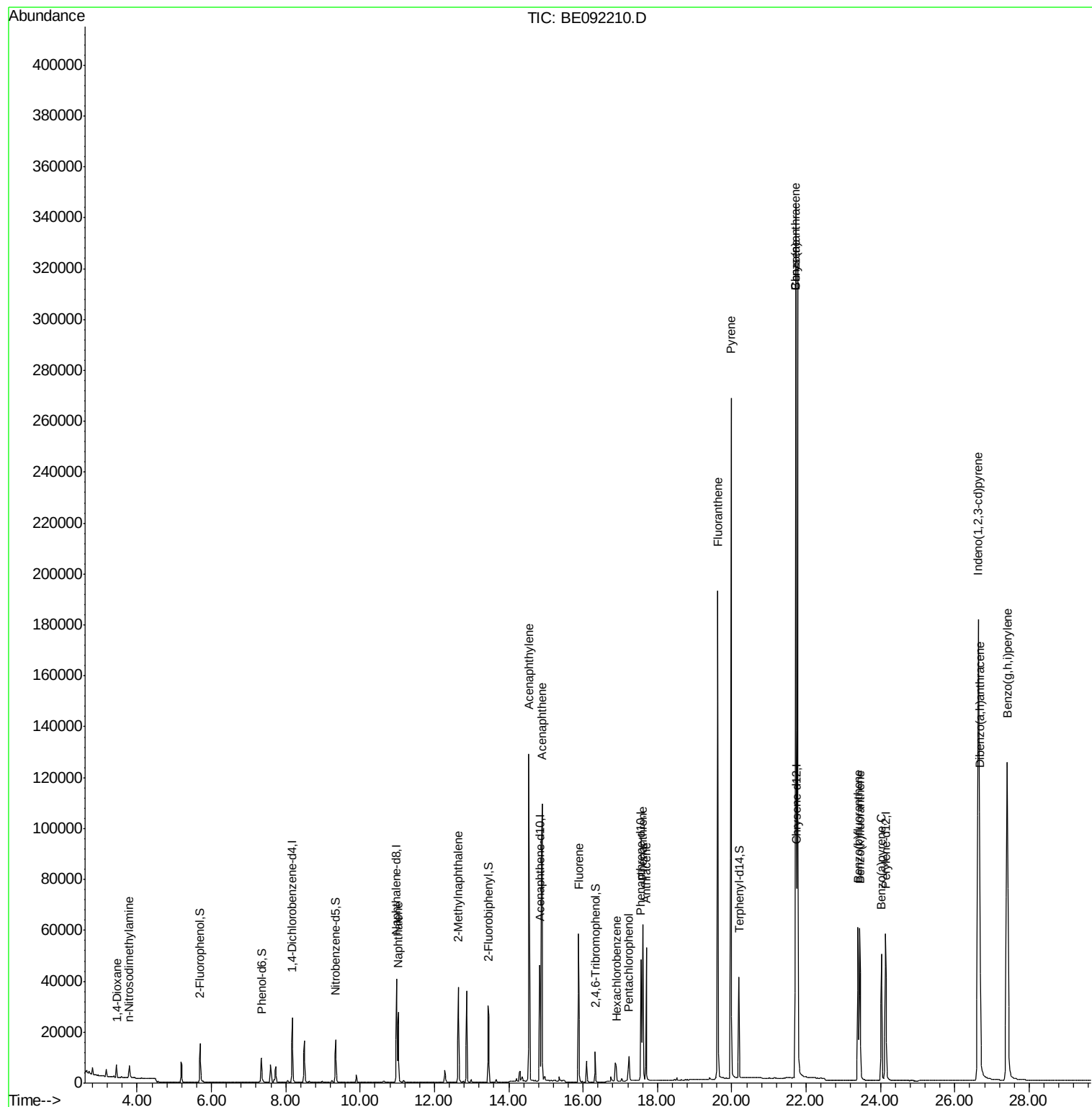
Target Compounds						Qvalue
2) 1,4-Dioxane	3.44	88	3227	1.87	ng	# 52
3) n-Nitrosodimethylamine	3.78	42	4526	1.94	ng	92
8) Naphthalene	11.03	128	41143	3.35	ng	95
9) 2-Methylnaphthalene	12.64	142	27948	3.45	ng	89
13) Acenaphthylene	14.54	152	180992	3.35	ng	98
14) Acenaphthene	14.90	154	28065	3.26	ng	# 92
15) Fluorene	15.88	166	36716	3.36	ng	100
17) Hexachlorobenzene	16.89	284	9279	2.77	ng	# 38
18) Pentachlorophenol	17.24	266	9051	7.21	ng	# 83
19) Phenanthrene	17.60	178	69766	3.74	ng	99
20) Anthracene	17.70	178	61734	3.39	ng	98
21) Fluoranthene	19.63	202	291034	3.48	ng	97
23) Pyrene	19.99	202	309440	3.67	ng	97
25) Benzo(a)anthracene	21.72	228	329526	3.72	ng	98
26) Chrysene	21.72	228	329526	3.71	ng	95
27) Indeno(1,2,3-cd)pyrene	26.63	276	381753	3.96	ng	100
29) Benzo(b)fluoranthene	23.40	252	84046	3.53	ng	98
30) Benzo(k)fluoranthene	23.45	252	81932	3.59	ng	96
31) Benzo(a)pyrene	24.02	252	78757	3.59	ng	95
32) Dibenzo(a,h)anthracene	26.67	278	79342	3.79	ng	# 92
33) Benzo(g,h,i)perylene	27.42	276	323845	3.63	ng	95

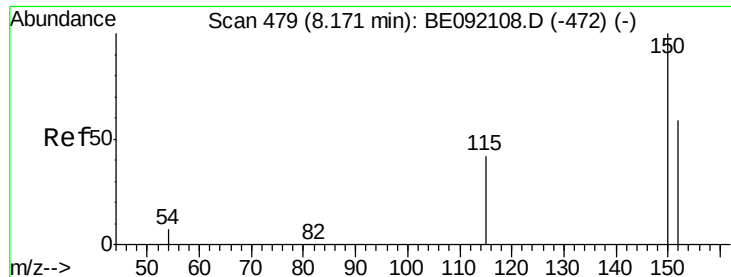
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 8.17 min Scan# 479

Delta R.T. -0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

ClientSampleId :

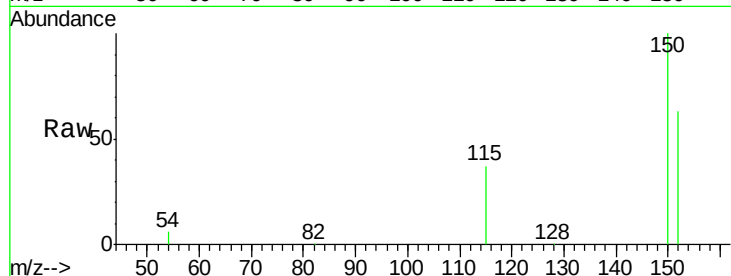
Tot Ion:152 Resp: 12699

Ion Ratio Lower Upper

152 100

150 157.6 106.0 159.0

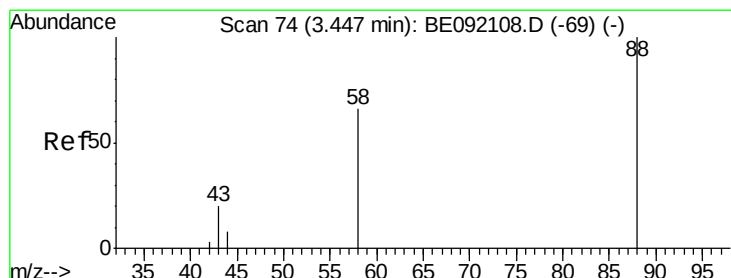
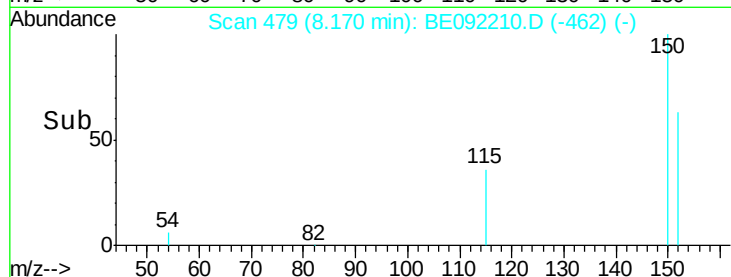
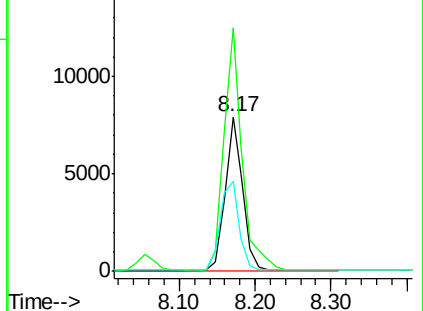
115 58.0 36.9 55.3#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#2

1,4-Dioxane

Concen: 1.87 ng

RT: 3.44 min Scan# 74

Delta R.T. -0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

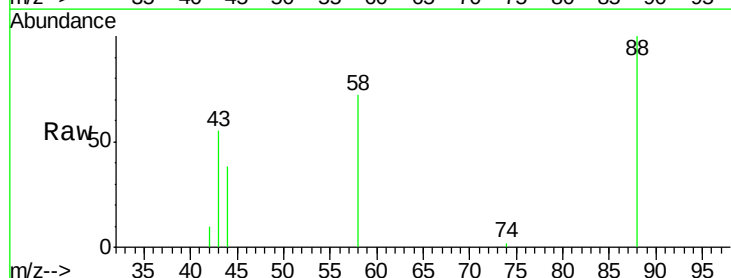
Tgt Ion: 88 Resp: 3227

Ion Ratio Lower Upper

88 100

58 88.9 62.1 93.1

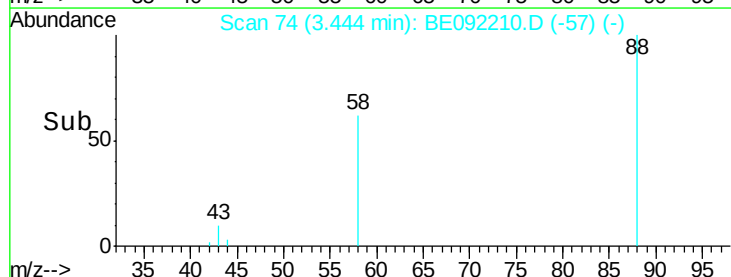
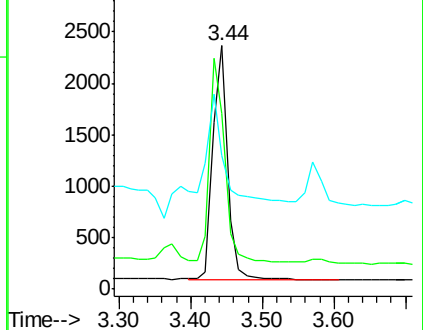
43 106.5 27.2 40.8#

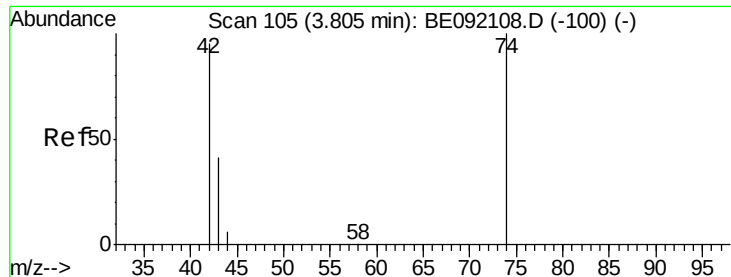


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0



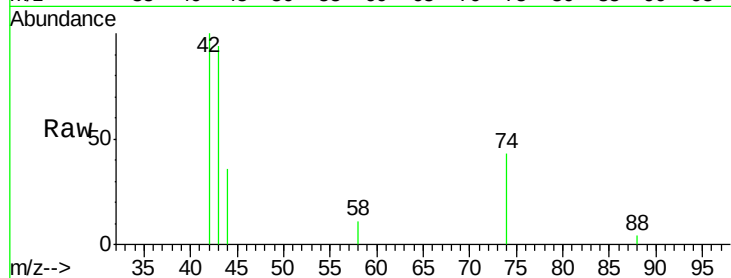


#3

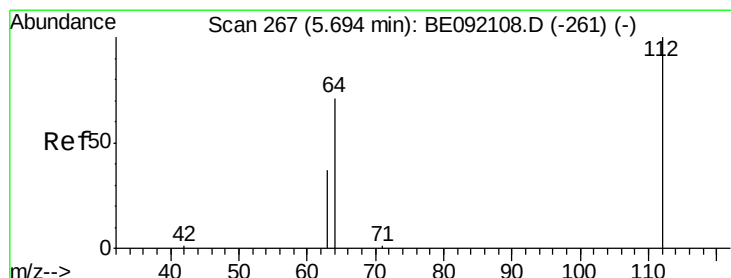
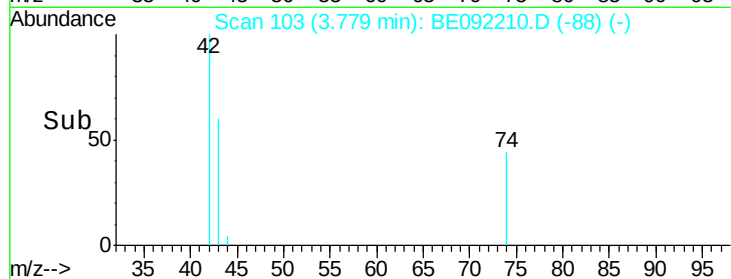
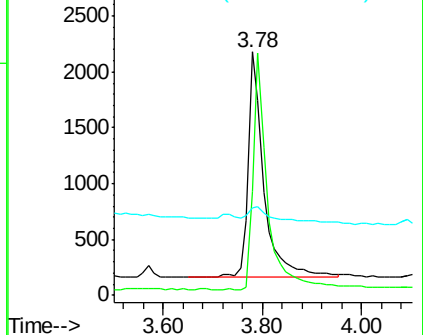
n-Nitrosodimethylamine
 Concen: 1.94 ng
 RT: 3.78 min Scan# 103
 Delta R.T. -0.03 min
 Lab File: BE092210.D
 Acq: 5 Aug 2016 8:55

Instrument :
 BNA_E
 ClientSampleId :

Tot Ion: 42 Resp: 4526
 Ion Ratio Lower Upper
 42 100
 74 95.0 82.8 124.2
 44 11.0 9.0 13.4



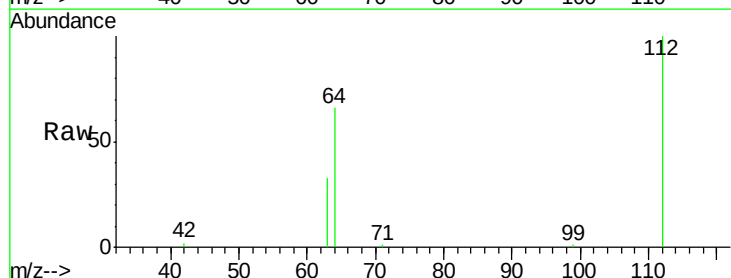
Abundance Ion 42.00 (41.70 to 42.70): BE0
 Ion 74.00 (73.70 to 74.70): BE0
 Ion 44.00 (43.70 to 44.70): BE0



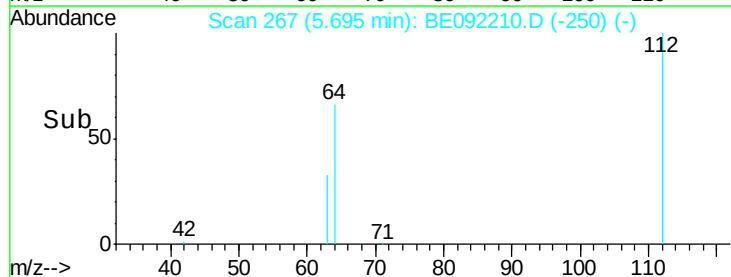
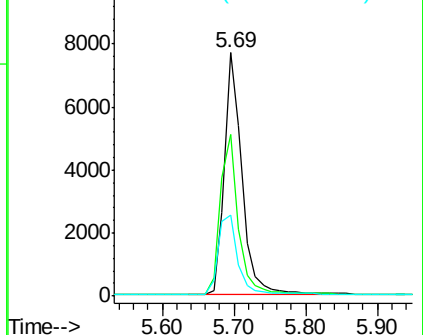
#4

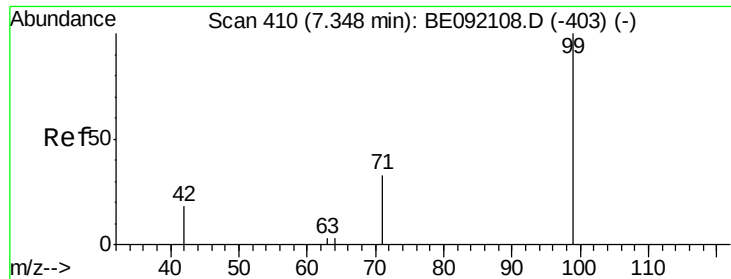
2-Fluorophenol
 Concen: 4.03 ng
 RT: 5.69 min Scan# 267
 Delta R.T. 0.00 min
 Lab File: BE092210.D
 Acq: 5 Aug 2016 8:55

Tgt Ion: 112 Resp: 13151
 Ion Ratio Lower Upper
 112 100
 64 67.6 55.9 83.9
 63 36.3 31.1 46.7



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: 2.69 ng

RT: 7.35 min Scan# 410

Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

ClientSampleId :

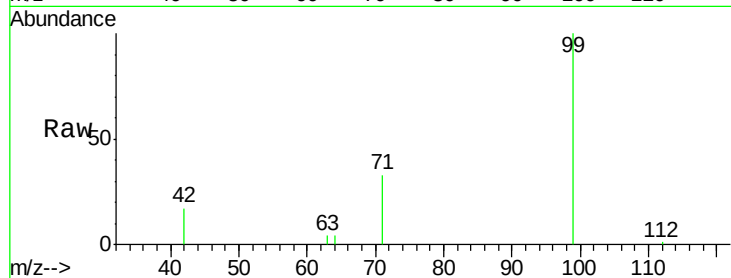
Tot Ion: 99 Resp: 11690

Ion Ratio Lower Upper

99 100

42 25.6 22.4 33.6

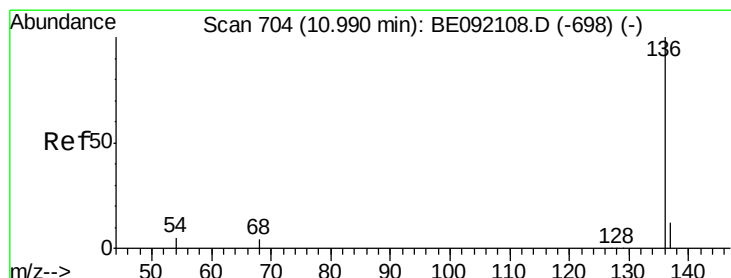
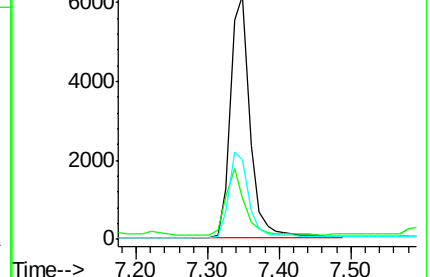
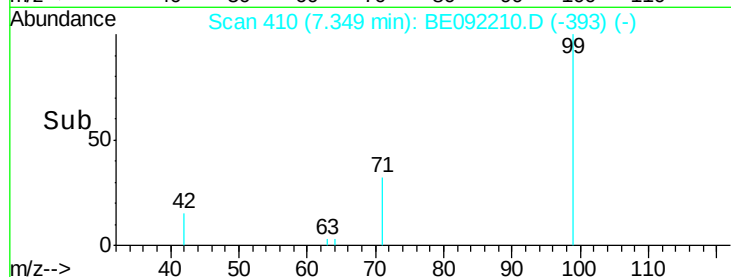
71 35.6 28.9 43.3



Abundance Ion 99.00 (98.70 to 99.70): BE092108.D (-403) (-)

Ion 42.00 (41.70 to 42.70): BE092108.D (-403) (-)

Ion 71.00 (70.70 to 71.70): BE092108.D (-403) (-)



#6

Naphthalene-d8

Concen: 5.00 ng

RT: 10.98 min Scan# 703

Delta R.T. -0.01 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Tgt Ion: 136 Resp: 57085

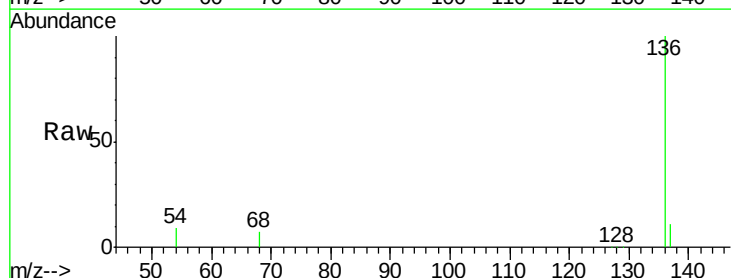
Ion Ratio Lower Upper

136 100

137 10.7 9.1 13.7

54 9.3 2.7 4.1#

68 6.7 2.2 3.4#

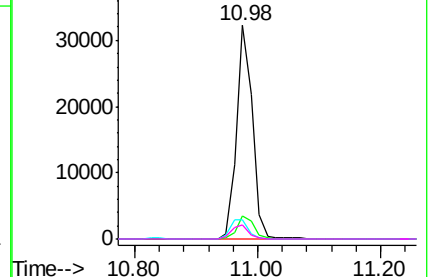
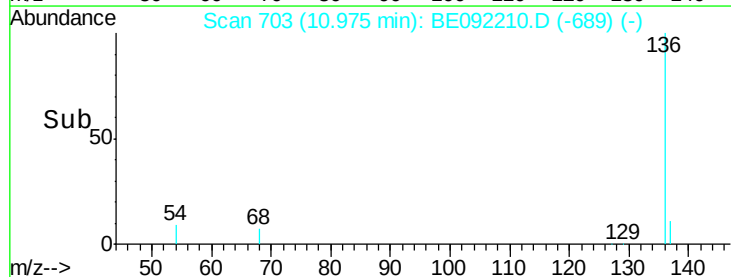


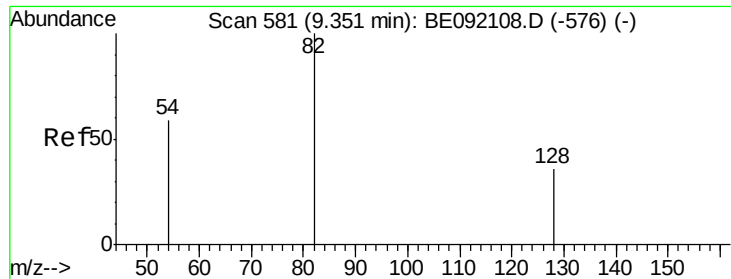
Abundance Ion 136.00 (135.70 to 136.70): BE092108.D (-698) (-)

Ion 137.00 (136.70 to 137.70): BE092108.D (-698) (-)

Ion 54.00 (53.70 to 54.70): BE092108.D (-698) (-)

Ion 68.00 (67.70 to 68.70): BE092108.D (-698) (-)





#7

Nitrobenzene-d5

Concen: 3.38 ng

RT: 9.34 min Scan# 580

Delta R.T. -0.01 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

ClientSampled :

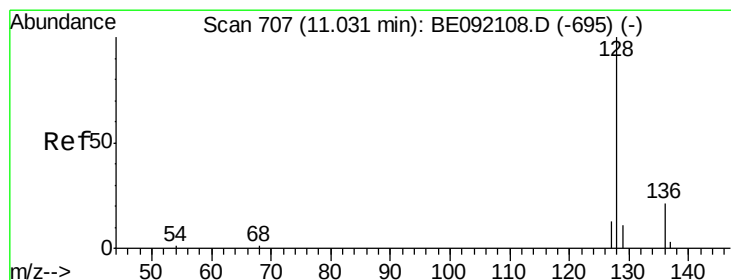
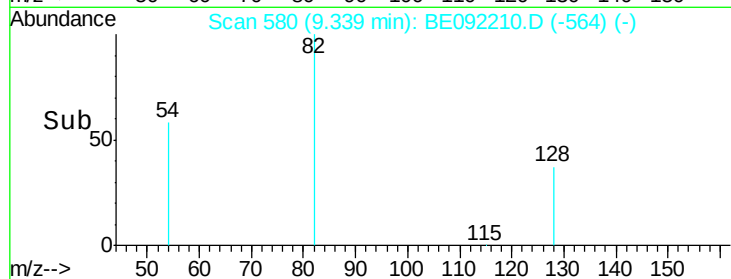
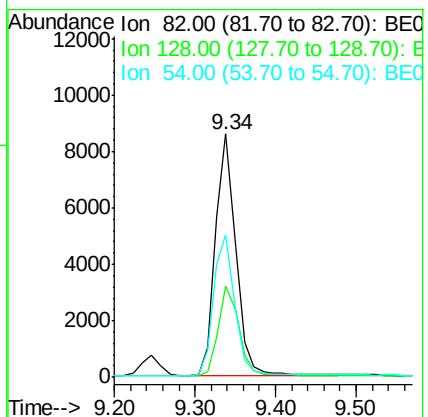
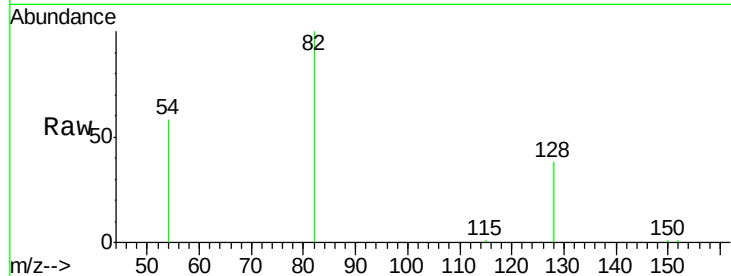
Tot Ion: 82 Resp: 15226

Ion Ratio Lower Upper

82 100

128 37.7 33.0 49.4

54 58.4 42.6 63.8



#8

Naphthalene

Concen: 3.35 ng

RT: 11.03 min Scan# 707

Delta R.T. -0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

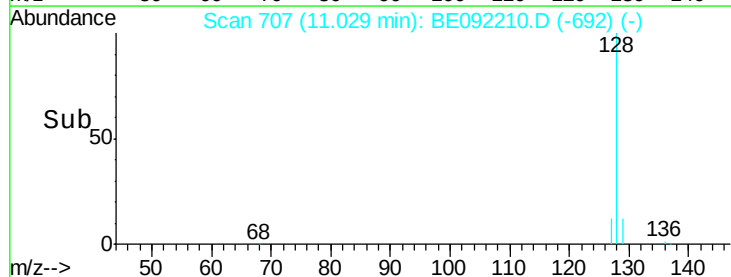
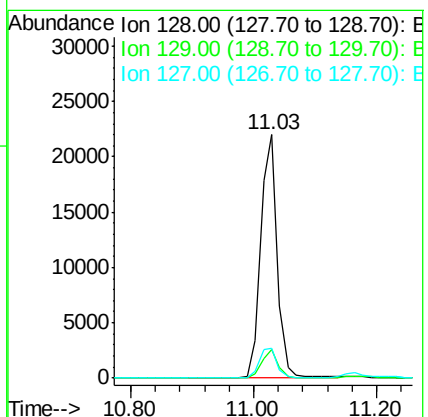
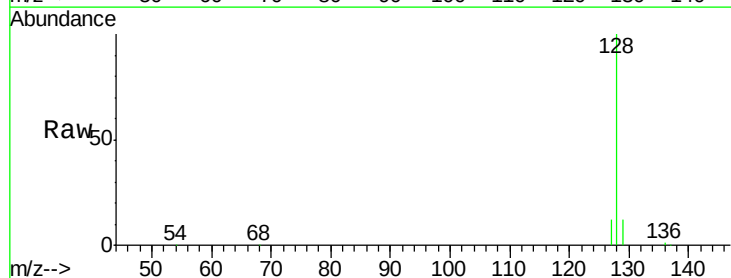
Tgt Ion: 128 Resp: 41143

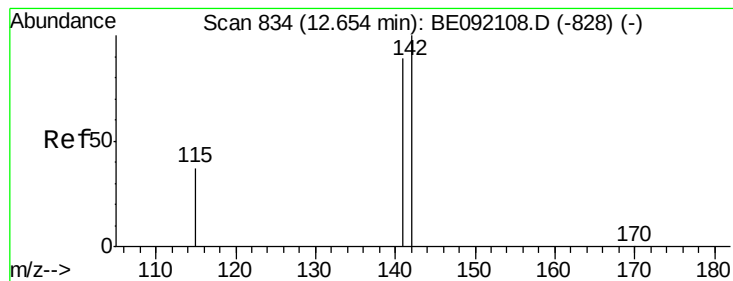
Ion Ratio Lower Upper

128 100

129 11.8 11.1 16.7

127 12.1 11.3 16.9





#9

2-Methylnaphthalene

Concen: 3.45 ng

RT: 12.64 min Scan# 833

Delta R.T. -0.01 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

ClientSampleId :

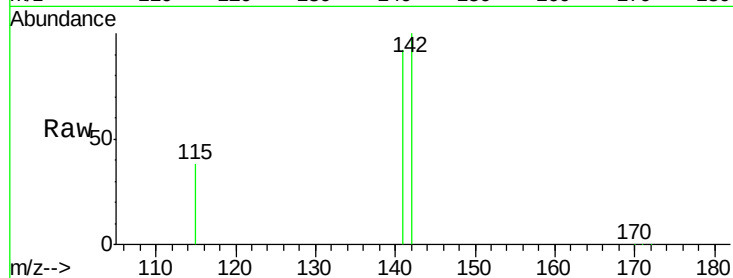
Tot Ion:142 Resp: 27948

Ion Ratio Lower Upper

142 100

141 92.4 65.1 97.7

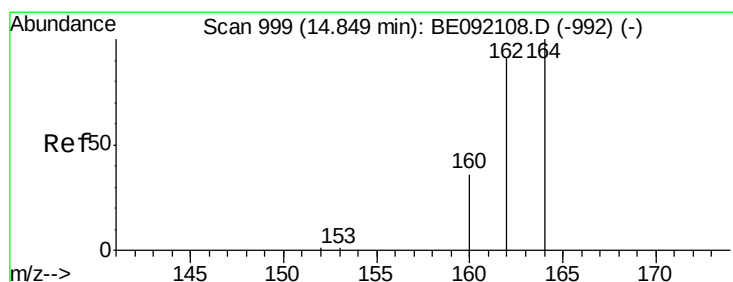
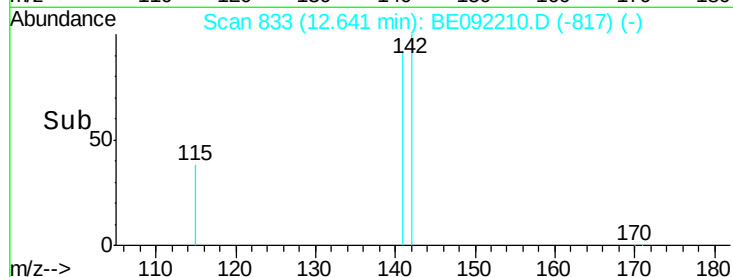
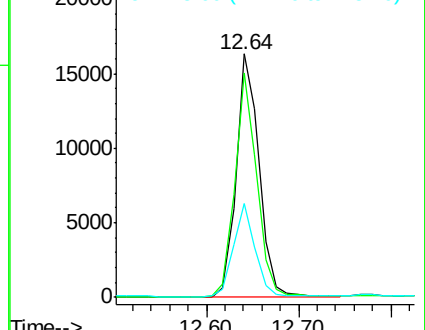
115 38.3 27.0 40.4



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: 14.83 min Scan# 998

Delta R.T. -0.02 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

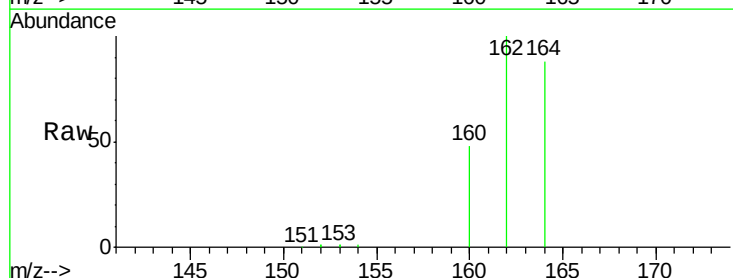
Tgt Ion:164 Resp: 30606

Ion Ratio Lower Upper

164 100

162 113.2 69.5 104.3#

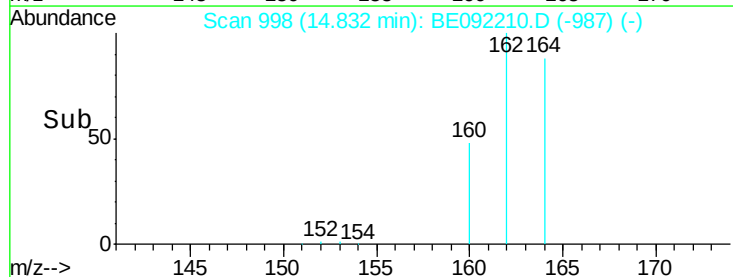
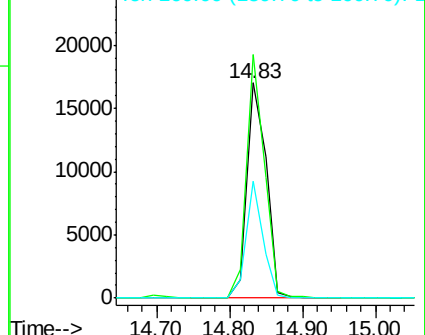
160 54.1 27.6 41.4#

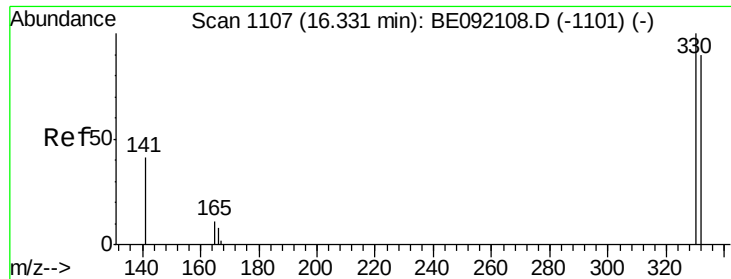


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E

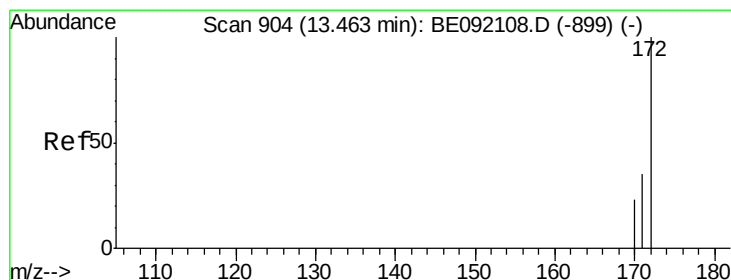
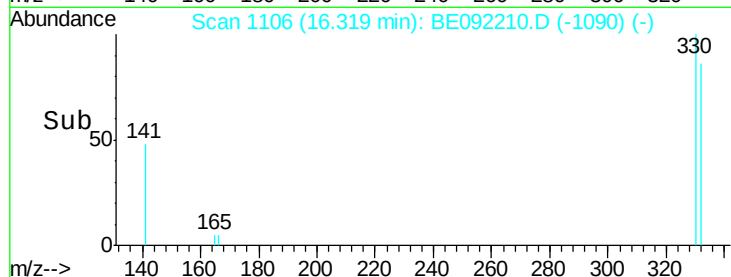
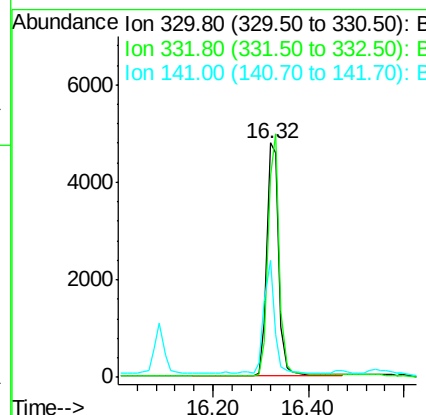
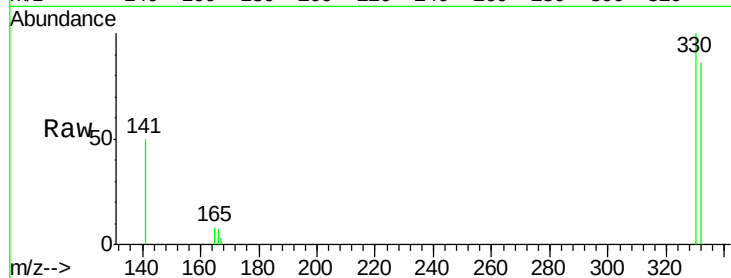




#11
 2,4,6-Tribromophenol
 Concen: 8.26 ng
 RT: 16.32 min Scan# 1106
 Delta R.T. -0.01 min
 Lab File: BE092210.D
 Acq: 5 Aug 2016 8:55

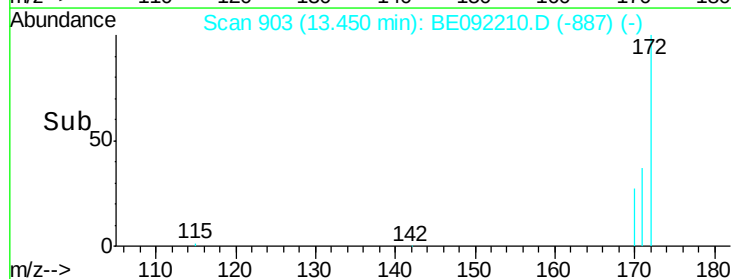
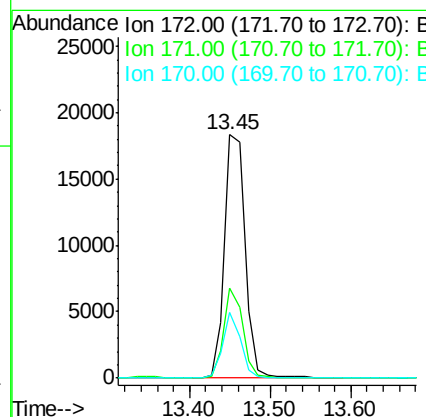
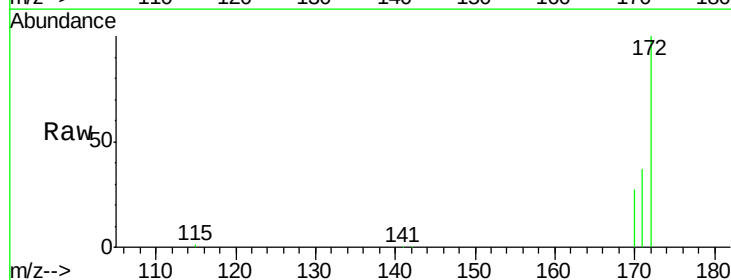
Instrument :
 BNA_E
 ClientSampleId :

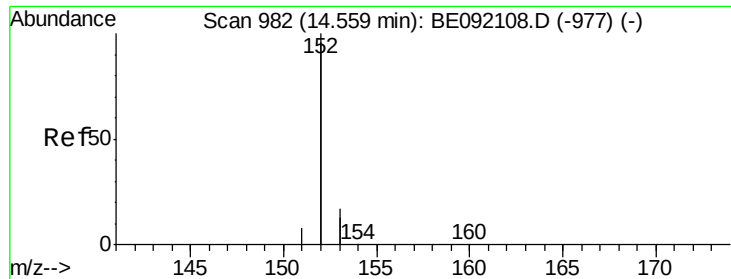
Tot Ion:330 Resp: 8212
 Ion Ratio Lower Upper
 330 100
 332 97.1 74.2 111.4
 141 44.0 139.8 209.8#



#12
 2-Fluorobiphenyl
 Concen: 3.31 ng
 RT: 13.45 min Scan# 903
 Delta R.T. -0.01 min
 Lab File: BE092210.D
 Acq: 5 Aug 2016 8:55

Tgt Ion:172 Resp: 32150
 Ion Ratio Lower Upper
 172 100
 171 37.1 30.3 45.5
 170 27.1 21.6 32.4

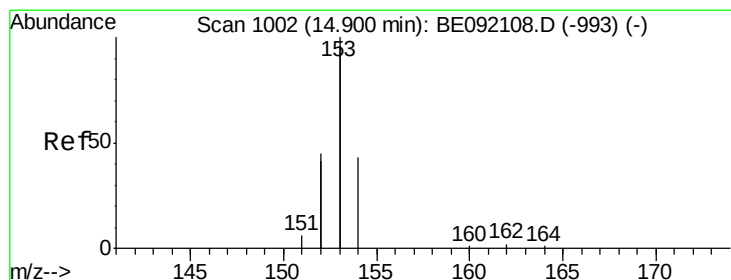
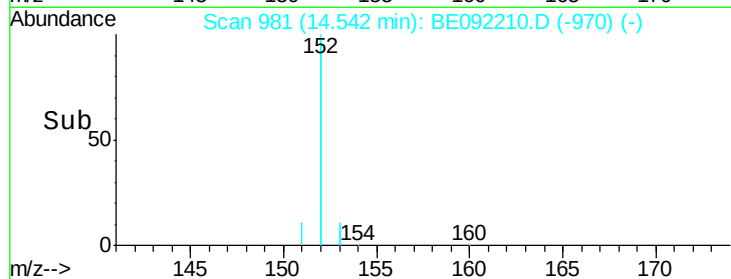
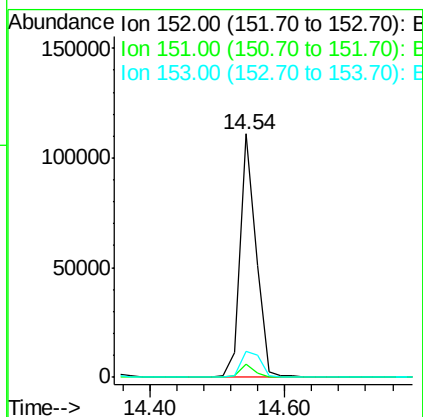
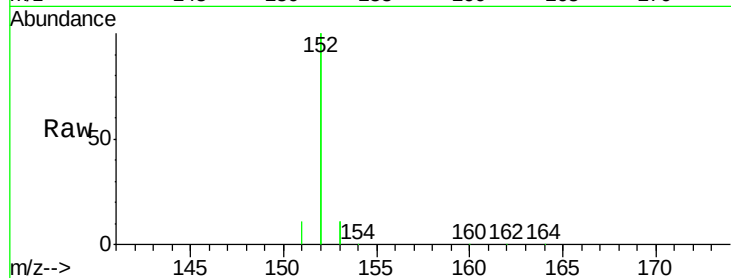




#13
Acenaphthylene
Concen: 3.35 ng
RT: 14.54 min Scan# 981
Delta R.T. -0.02 min
Lab File: BE092210.D
Acq: 5 Aug 2016 8:55

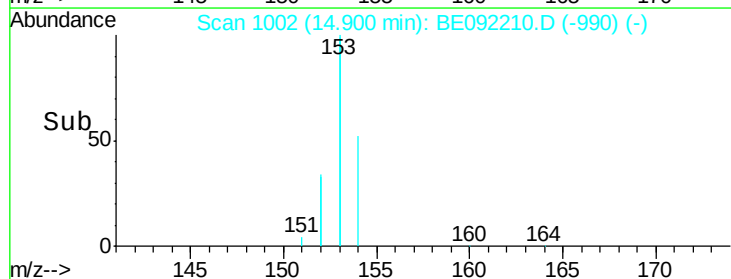
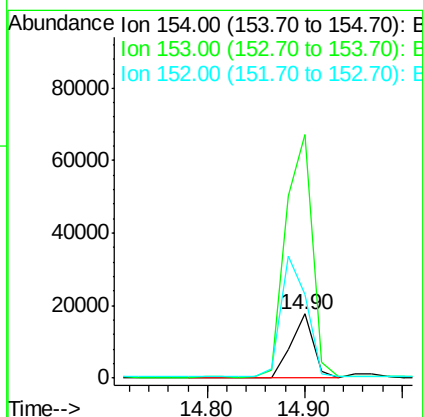
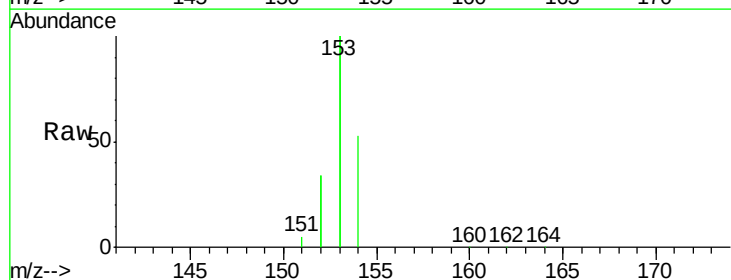
Instrument :
BNA_E
ClientSampled :

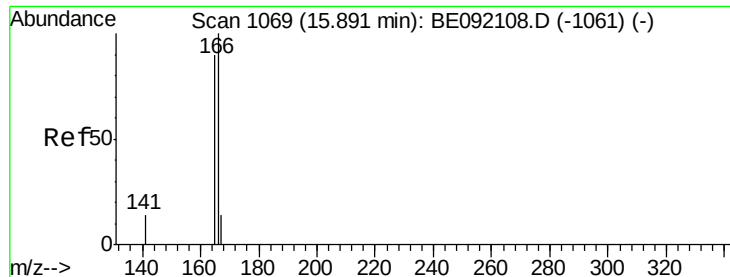
Tot Ion:152 Resp: 180992
Ion Ratio Lower Upper
152 100
151 4.9 4.0 6.0
153 13.1 9.6 14.4



#14
Acenaphthene
Concen: 3.26 ng
RT: 14.90 min Scan# 1002
Delta R.T. 0.00 min
Lab File: BE092210.D
Acq: 5 Aug 2016 8:55

Tgt Ion:154 Resp: 28065
Ion Ratio Lower Upper
154 100
153 451.7 345.1 517.7
152 217.9 0.0 0.0#





#15

Fluorene

Concen: 3.36 ng

RT: 15.88 min Scan# 1068

Delta R.T. -0.01 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

ClientSampleId :

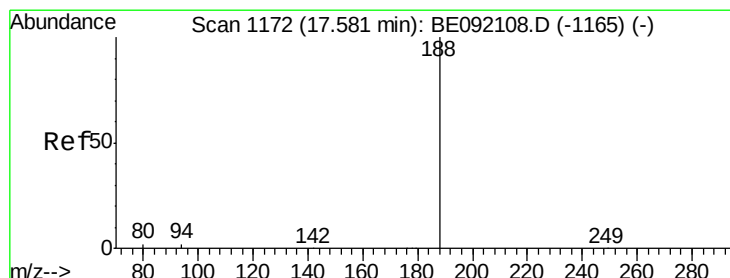
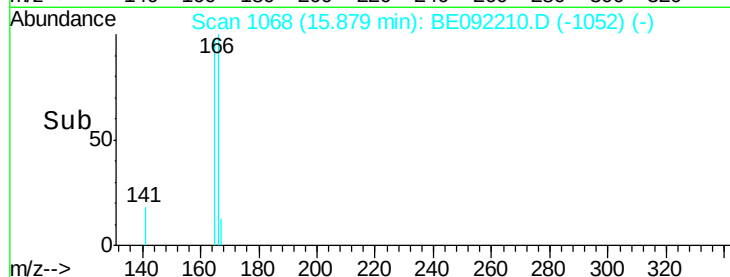
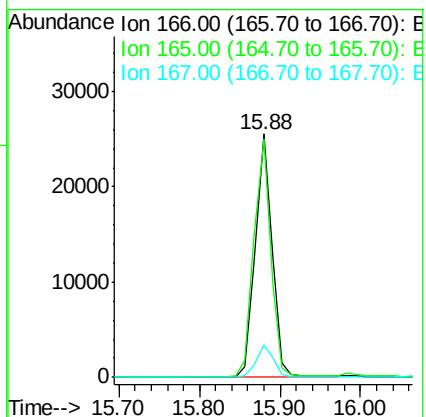
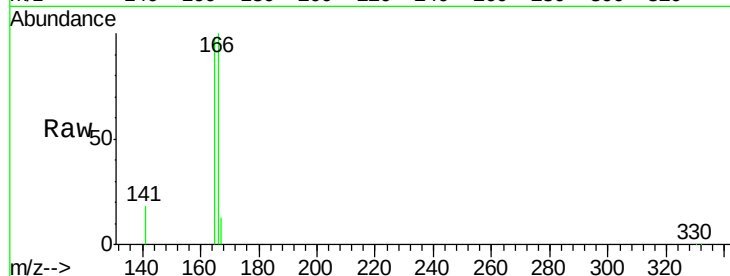
Tot Ion:166 Resp: 36716

Ion Ratio Lower Upper

166 100

165 98.6 78.6 118.0

167 13.5 11.1 16.7



#16

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.56 min Scan# 1171

Delta R.T. -0.02 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

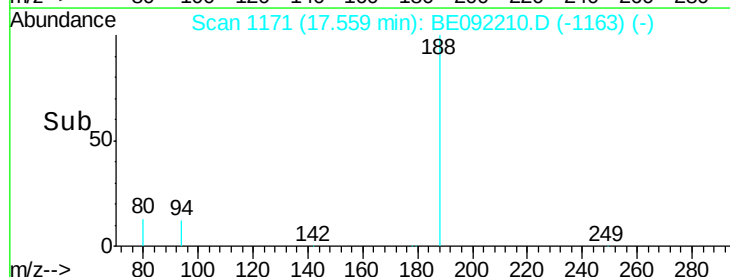
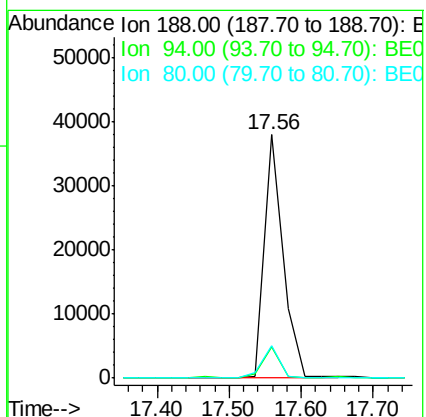
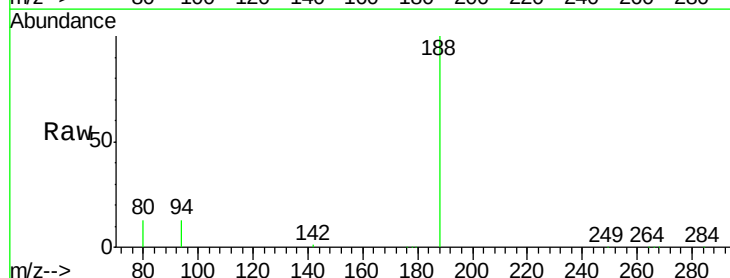
Tgt Ion:188 Resp: 68420

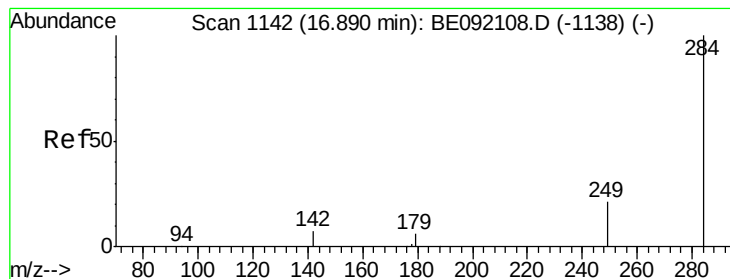
Ion Ratio Lower Upper

188 100

94 12.8 3.9 5.9#

80 13.1 3.4 5.0#





#17

Hexachlorobenzene

Concen: 2.77 ng

RT: 16.89 min Scan# 1142

Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

ClientSampleId :

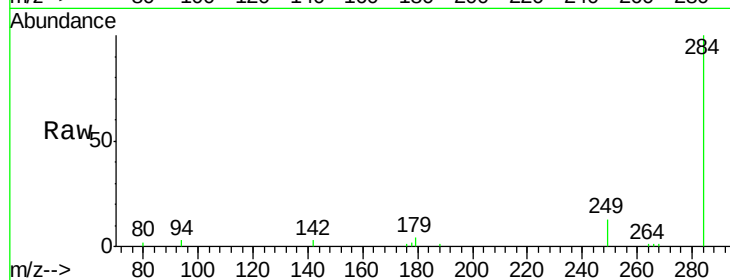
Tot Ion:284 Resp: 9279

Ion Ratio Lower Upper

284 100

142 0.0 33.3 49.9#

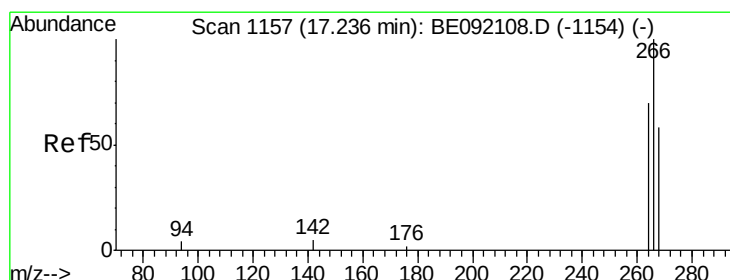
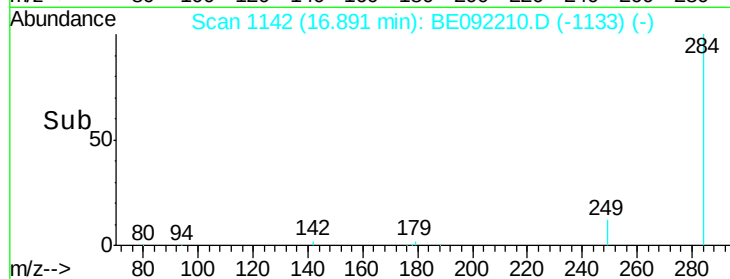
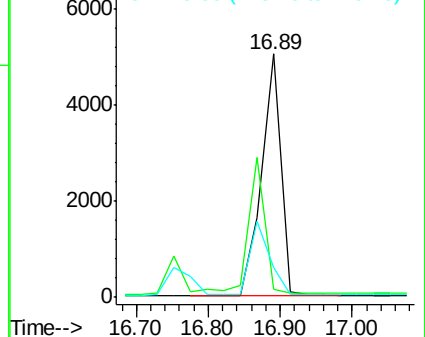
249 0.0 25.4 38.0#



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



#18

Pentachlorophenol

Concen: 7.21 ng

RT: 17.24 min Scan# 1157

Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

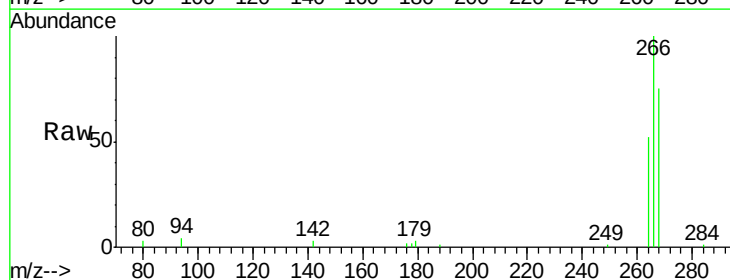
Tgt Ion:266 Resp: 9051

Ion Ratio Lower Upper

266 100

268 75.1 62.7 94.1

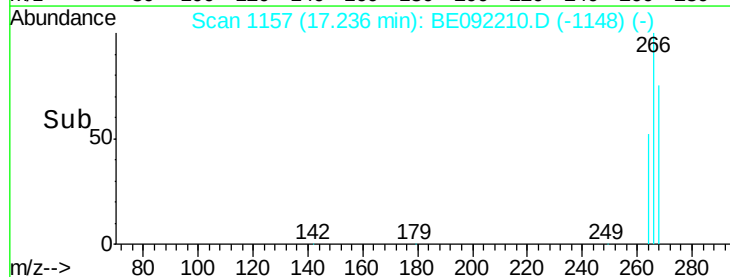
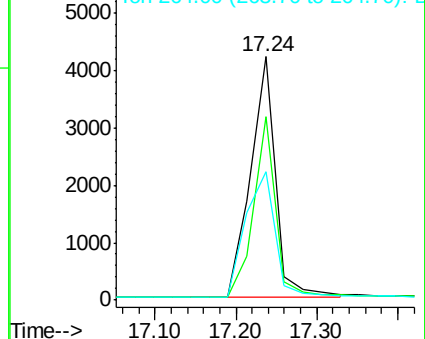
264 52.5 63.5 95.3#

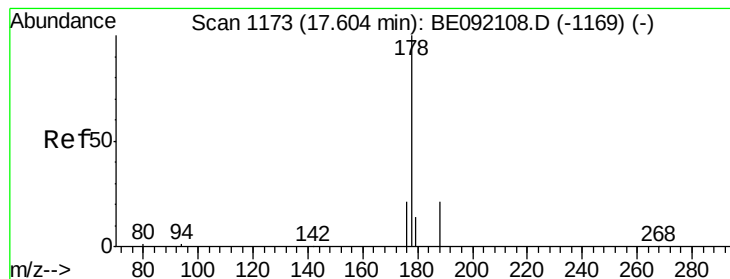


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#19

Phenanthrene

Concen: 3.74 ng

RT: 17.60 min Scan# 1173

Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

ClientSampleId :

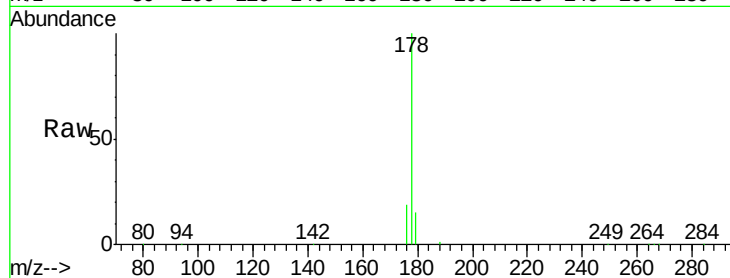
Tot Ion:178 Resp: 69766

Ion Ratio Lower Upper

178 100

176 19.6 15.4 23.0

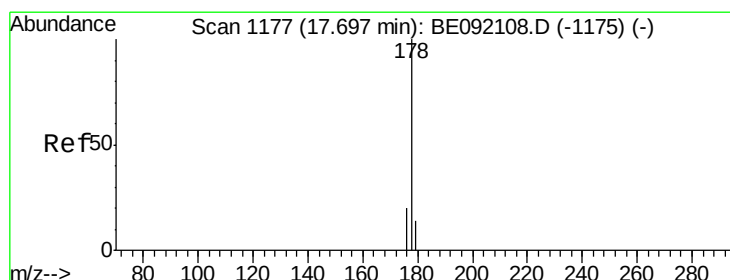
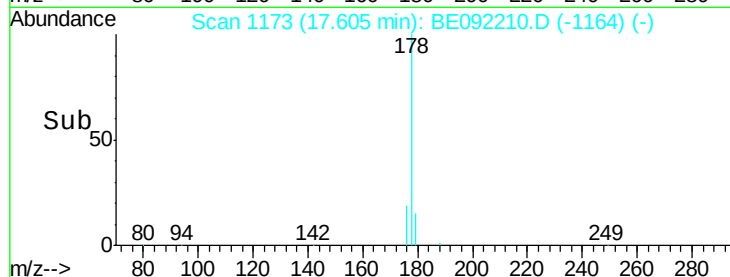
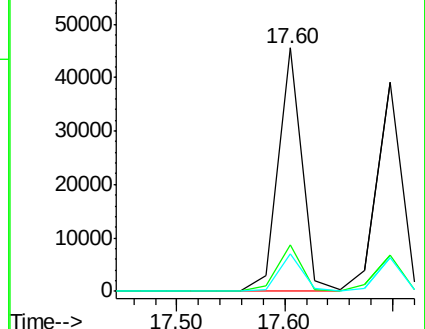
179 15.1 12.7 19.1



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



#20

Anthracene

Concen: 3.39 ng

RT: 17.70 min Scan# 1177

Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

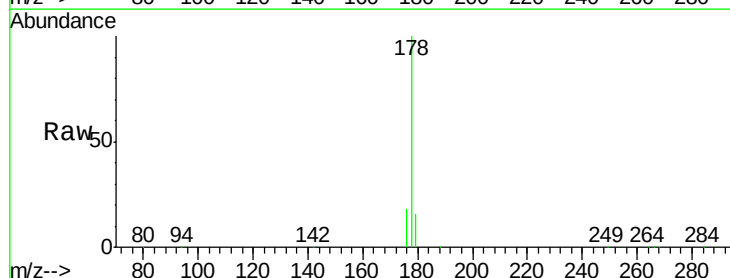
Tgt Ion:178 Resp: 61734

Ion Ratio Lower Upper

178 100

176 18.2 15.2 22.8

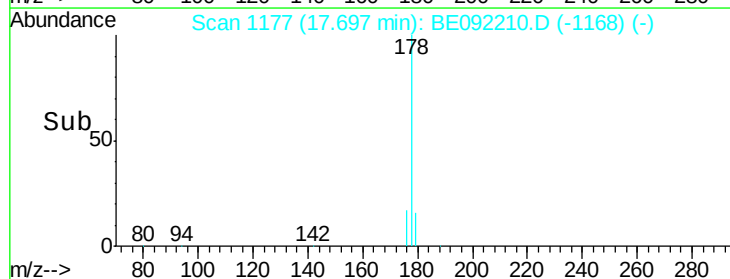
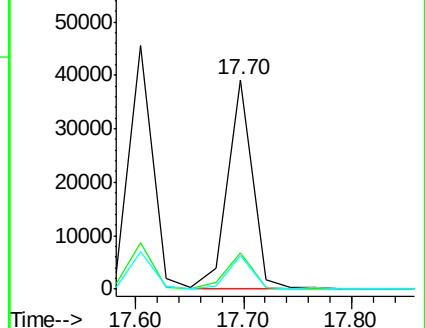
179 15.8 12.2 18.4

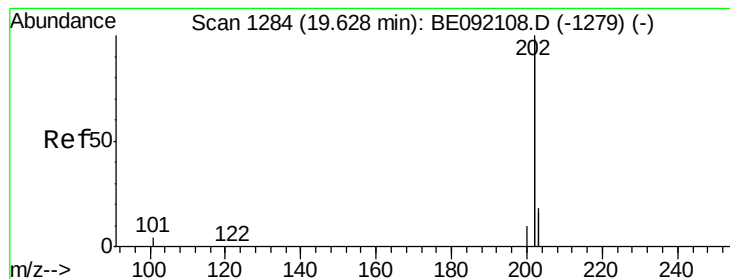


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#21

Fluoranthene

Concen: 3.48 ng

RT: 19.63 min Scan# 1284

Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

ClientSampleId :

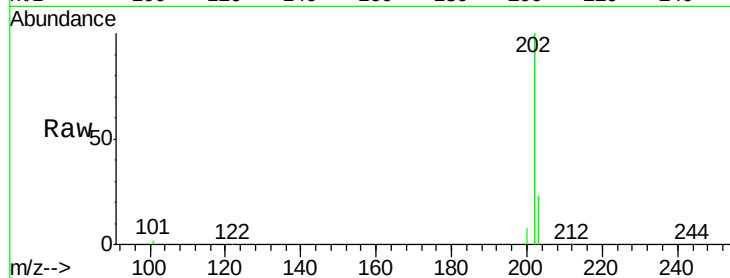
Tot Ion:202 Resp: 291034

Ion Ratio Lower Upper

202 100

101 3.0 2.2 3.2

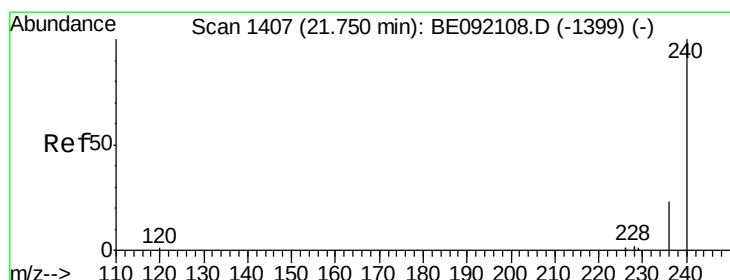
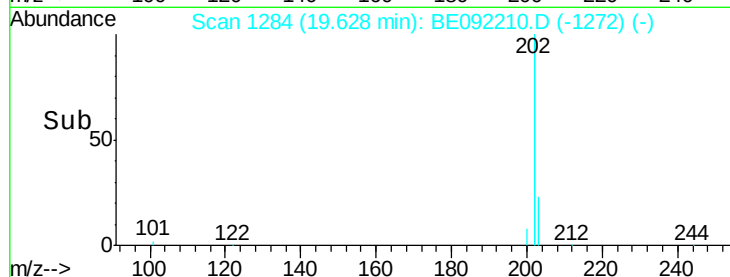
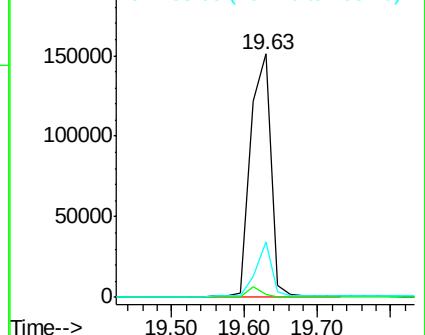
203 17.6 13.0 19.4



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: 21.75 min Scan# 1407

Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

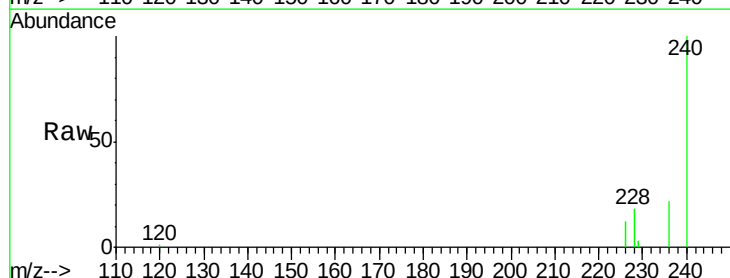
Tgt Ion:240 Resp: 80672

Ion Ratio Lower Upper

240 100

120 1.4 0.6 1.0#

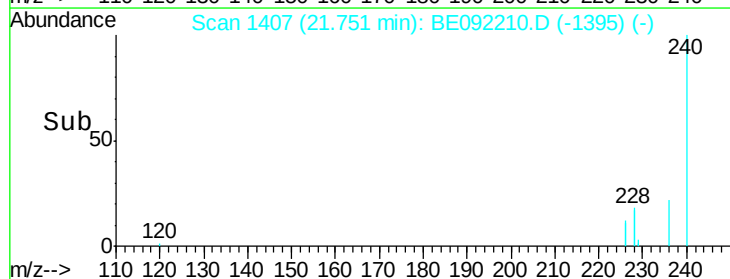
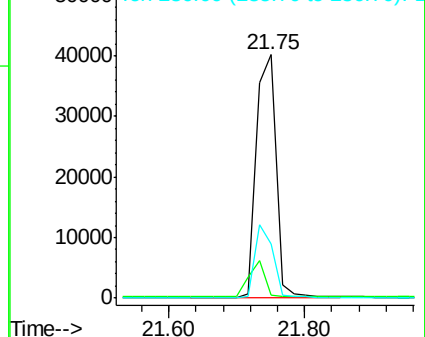
236 22.1 18.2 27.4

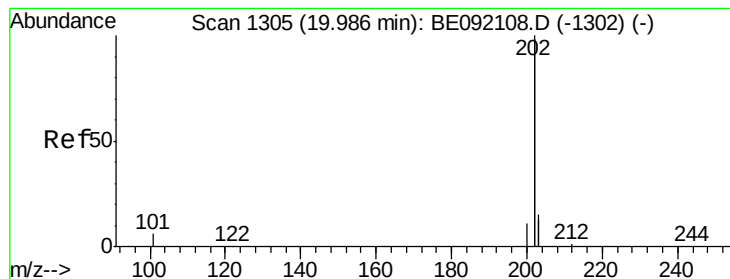


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#23

Pvrene

Concen: 3.67 ng

RT: 19.99 min Scan# 1305

Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

ClientSampled :

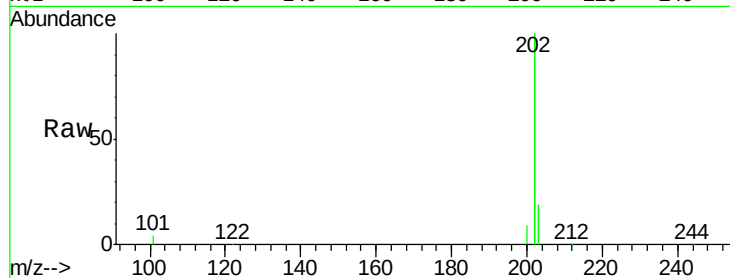
Tot Ion:202 Resp: 309440

Ion Ratio Lower Upper

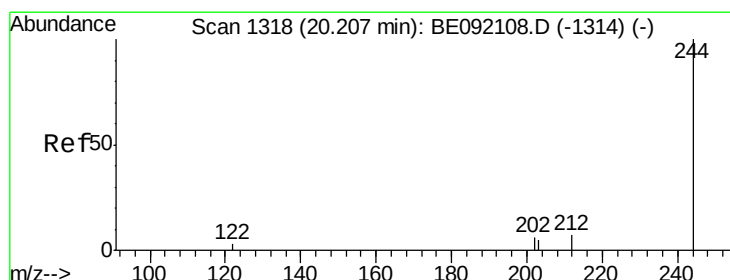
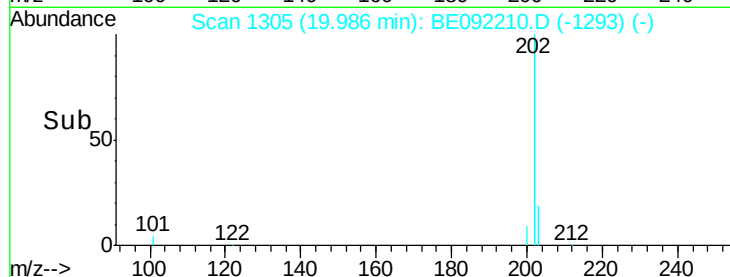
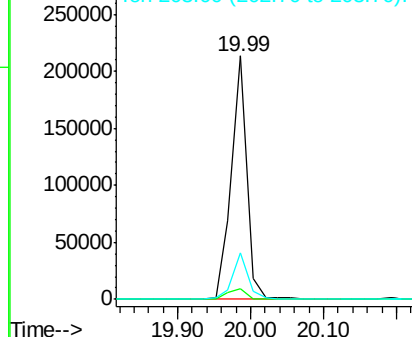
202 100

200 5.3 4.4 6.6

203 18.3 13.4 20.0



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: 3.93 ng

RT: 20.19 min Scan# 1317

Delta R.T. -0.02 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

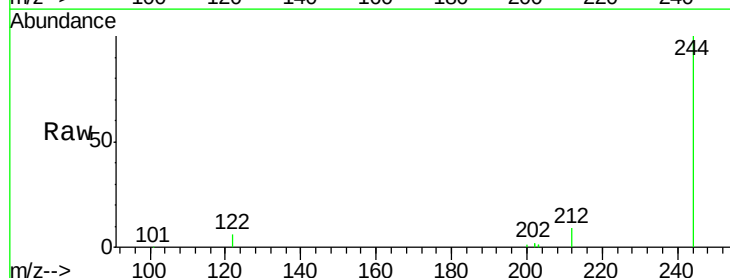
Tgt Ion:244 Resp: 45585

Ion Ratio Lower Upper

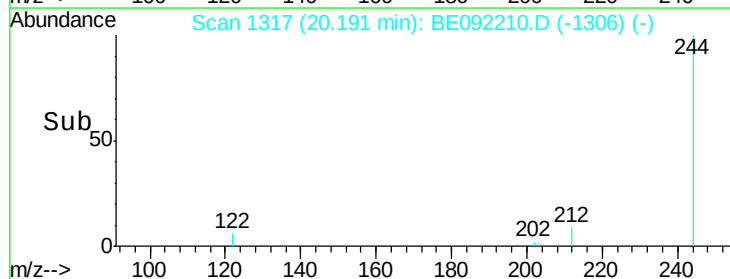
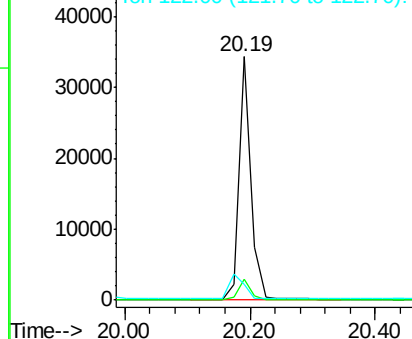
244 100

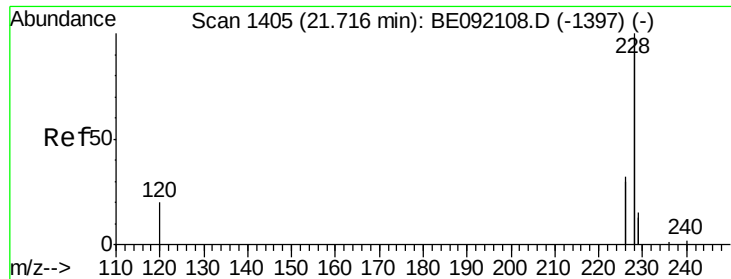
212 8.8 9.1 13.7#

122 6.3 11.0 16.4#



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: 3.72 ng

RT: 21.72 min Scan# 1405

Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

ClientSampleId :

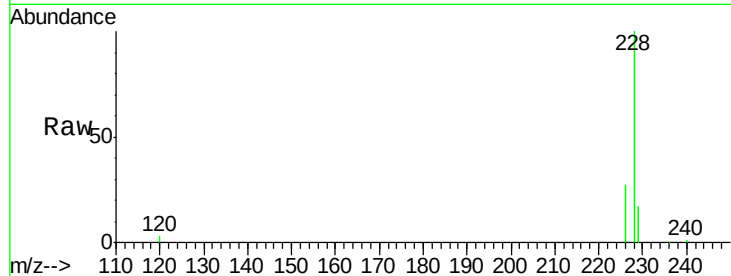
Tot Ion:228 Resp: 329526

Ion Ratio Lower Upper

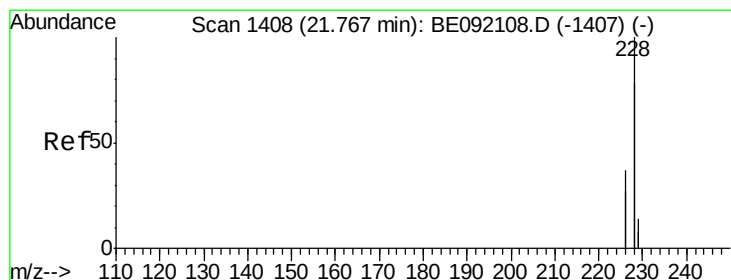
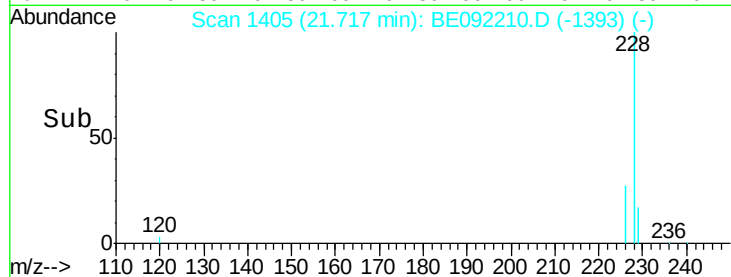
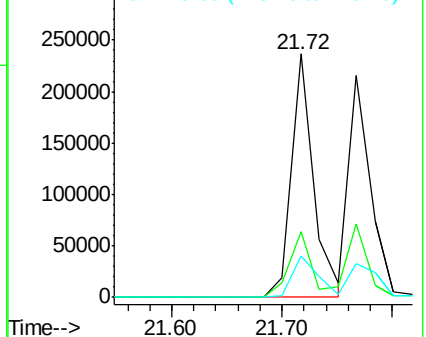
228 100

226 27.0 22.1 33.1

229 17.2 15.1 22.7



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



#26

Chrysene

Concen: 3.71 ng

RT: 21.72 min Scan# 1405

Delta R.T. -0.05 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

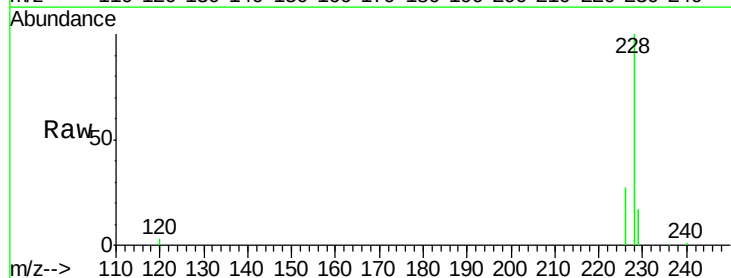
Tgt Ion:228 Resp: 329526

Ion Ratio Lower Upper

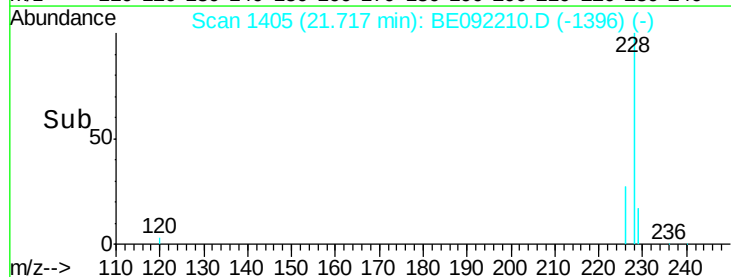
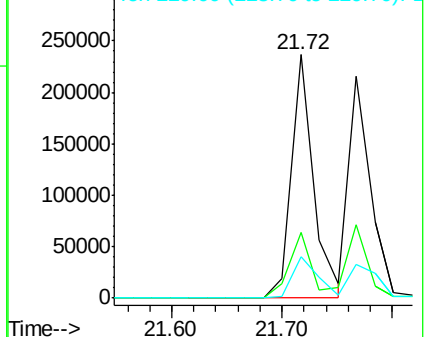
228 100

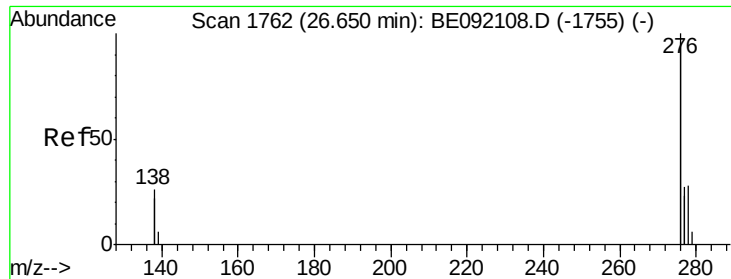
226 27.0 22.3 33.5

229 17.2 16.9 25.3



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

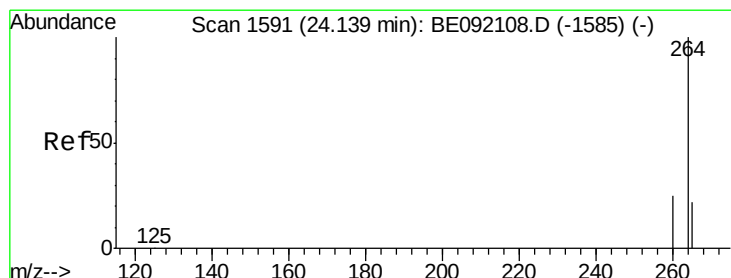
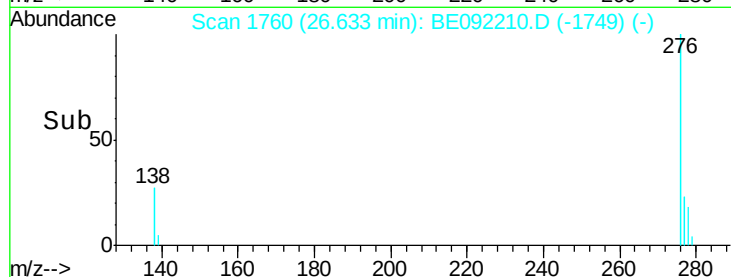
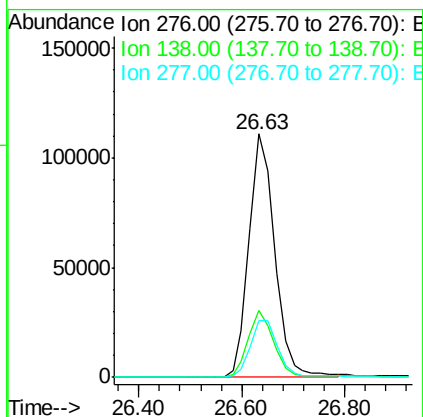
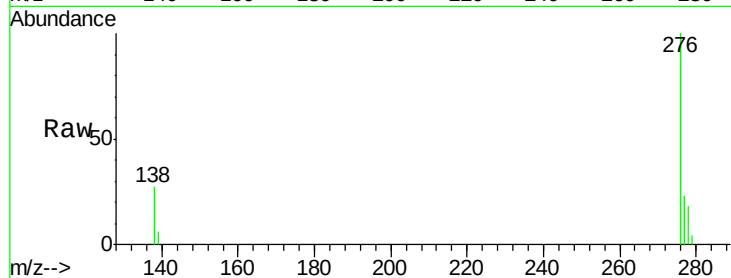




#27
 Indeno(1,2,3-cd)pyrene
 Concen: 3.96 ng
 RT: 26.63 min Scan# 1760
 Delta R.T. -0.02 min
 Lab File: BE092210.D
 Acq: 5 Aug 2016 8:55

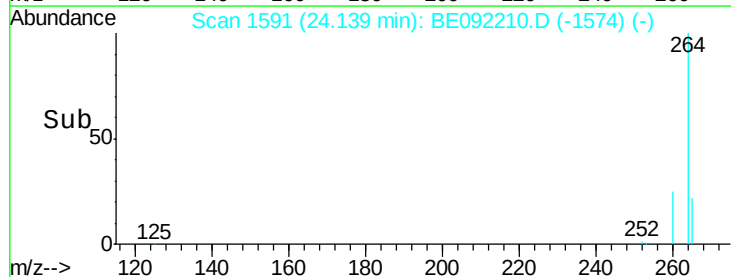
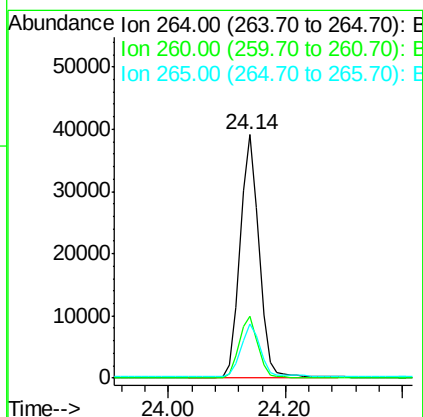
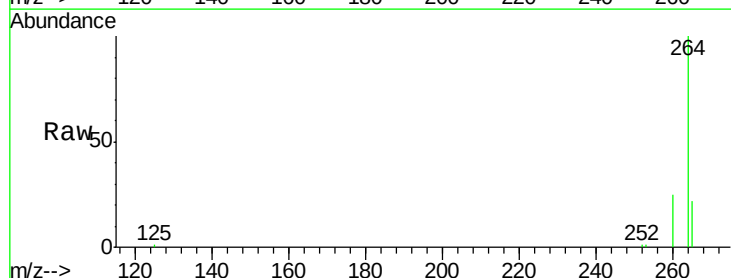
Instrument :
 BNA_E
 ClientSampleId :

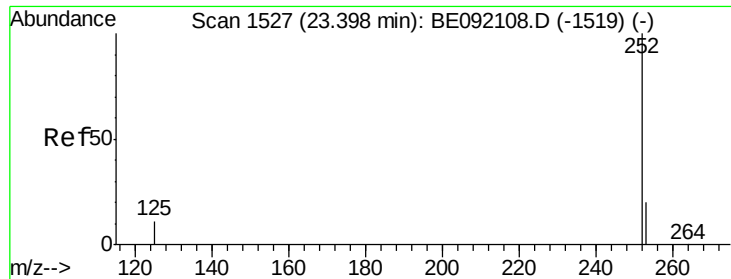
Tot Ion:276 Resp: 381753
 Ion Ratio Lower Upper
 276 100
 138 26.9 21.2 31.8
 277 24.8 19.8 29.8



#28
 Perylene-d12
 Concen: 5.00 ng
 RT: 24.14 min Scan# 1591
 Delta R.T. 0.00 min
 Lab File: BE092210.D
 Acq: 5 Aug 2016 8:55

Tgt Ion:264 Resp: 87143
 Ion Ratio Lower Upper
 264 100
 260 25.4 20.8 31.2
 265 22.3 16.6 25.0





#29

Benzo(b)fluoranthene

Concen: 3.53 ng

RT: 23.40 min Scan# 1527

Delta R.T. 0.00 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

ClientSampleId :

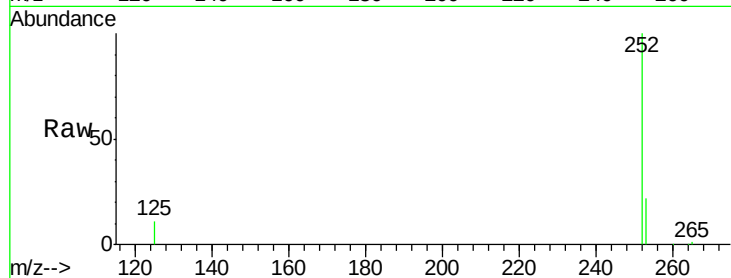
Tot Ion:252 Resp: 84046

Ion Ratio Lower Upper

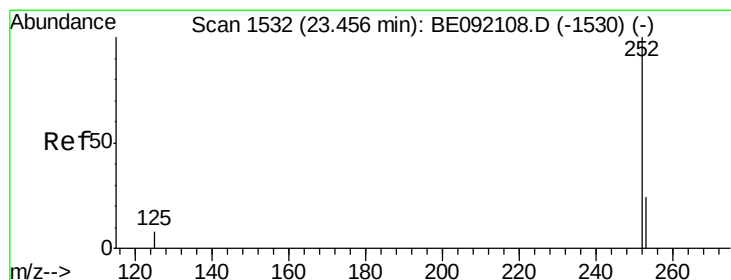
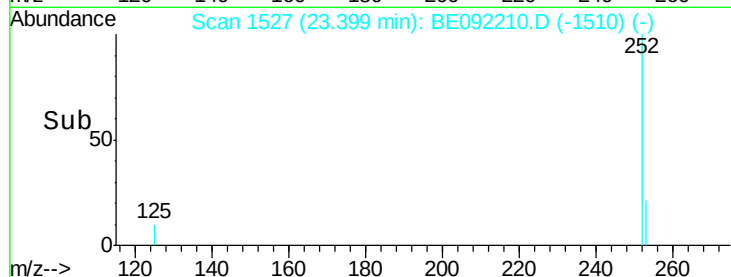
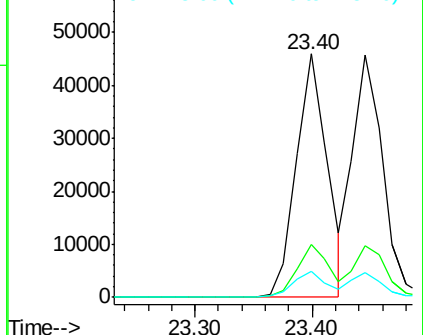
252 100

253 21.7 17.4 26.0

125 10.5 10.2 15.2



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



#30

Benzo(k)fluoranthene

Concen: 3.59 ng

RT: 23.45 min Scan# 1531

Delta R.T. -0.01 min

Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

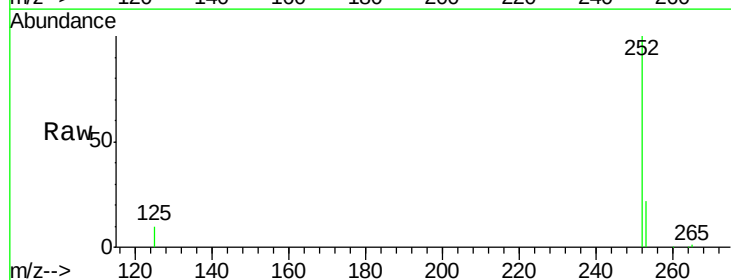
Tgt Ion:252 Resp: 81932

Ion Ratio Lower Upper

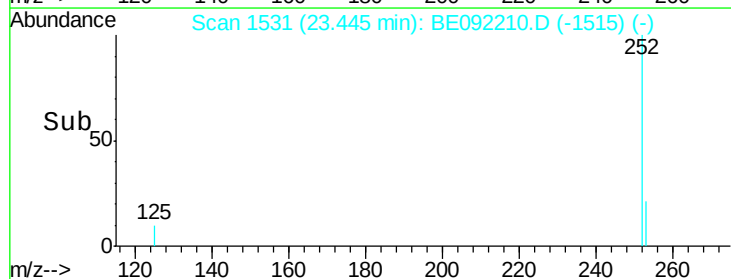
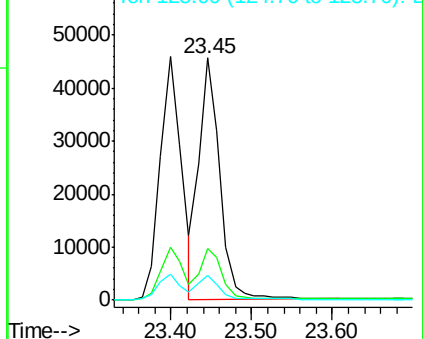
252 100

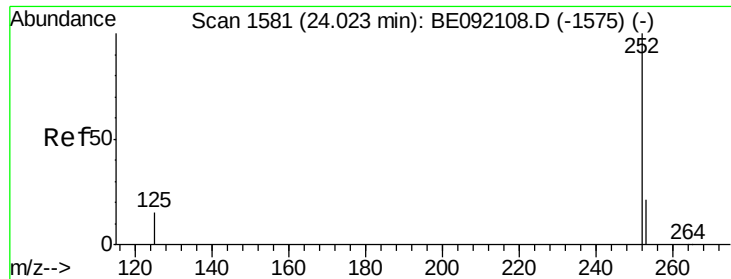
253 21.5 19.4 29.0

125 10.5 8.9 13.3



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

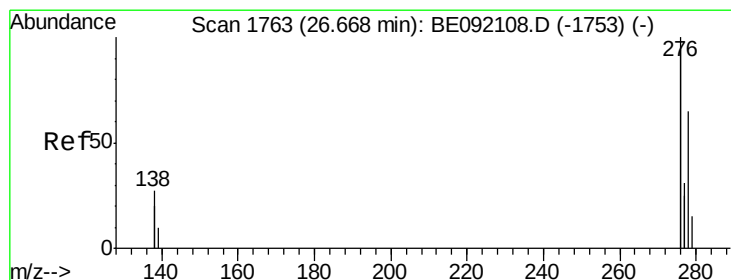
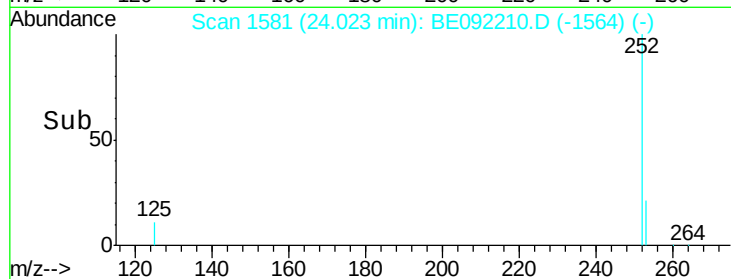
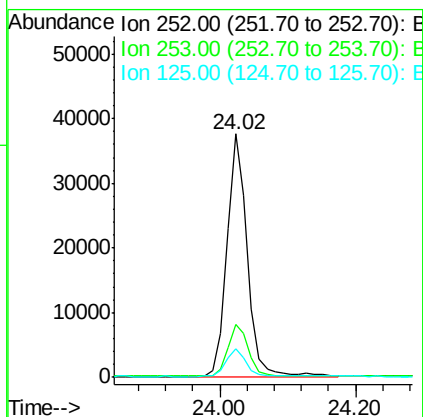
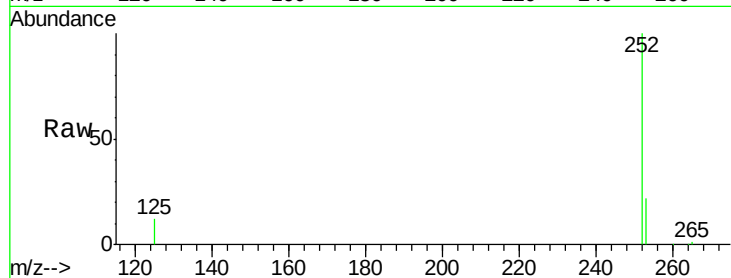




#31
Benzo(a)pyrene
Concen: 3.59 ng
RT: 24.02 min Scan# 1581
Delta R.T. 0.00 min
Lab File: BE092210.D
Acq: 5 Aug 2016 8:55

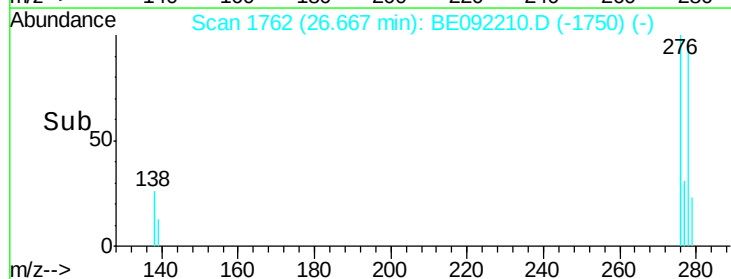
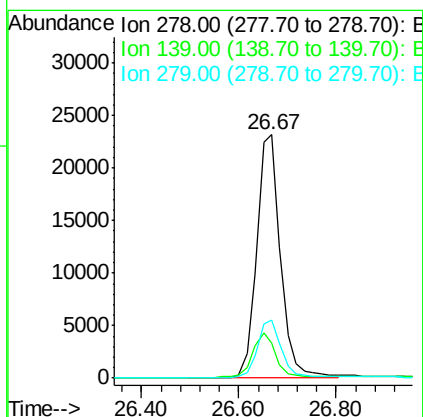
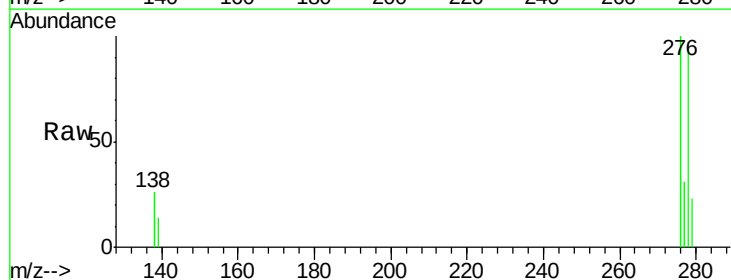
Instrument :
BNA_E
ClientSampleId :

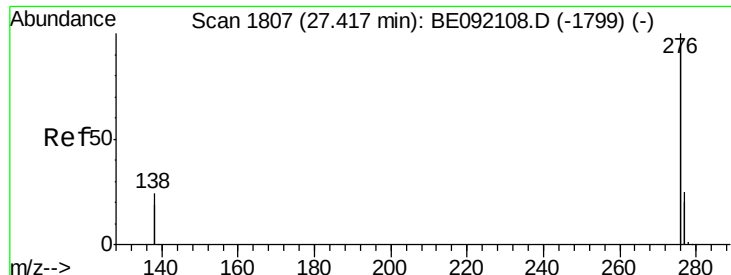
Tot Ion:252 Resp: 78757
Ion Ratio Lower Upper
252 100
253 21.8 19.8 29.8
125 11.7 10.4 15.6



#32
Dibenzo(a,h)anthracene
Concen: 3.79 ng
RT: 26.67 min Scan# 1762
Delta R.T. -0.00 min
Lab File: BE092210.D
Acq: 5 Aug 2016 8:55

Tgt Ion:278 Resp: 79342
Ion Ratio Lower Upper
278 100
139 14.2 16.7 25.1#
279 24.1 20.3 30.5





#33

Benzo(a,h,i)perylene

Concen: 3.63 ng

RT: 27.42 min Scan# 1806

Delta R.T. -0.00 min

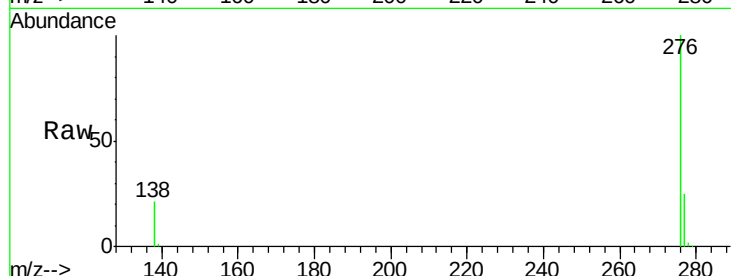
Lab File: BE092210.D

Acq: 5 Aug 2016 8:55

Instrument :

BNA_E

ClientSampleId :



Tot Ion: 276 Resp: 323845

Ion Ratio Lower Upper

276 100

277 24.8 19.5 29.3

138 21.1 20.8 31.2

