

Data Path : Z:\HPCHEM1\BNA E\DATA\BE032817\
 Data File : BE092853.D
 Acq On : 29 Mar 2017 1:48
 Operator : SJ/MA
 Sample : I2421-01
 Misc :
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :

Quant Time: Mar 29 04:59:19 2017
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\8270-SIM-BE032817.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Mar 28 14:58:05 2017
 Response via : Initial Calibration

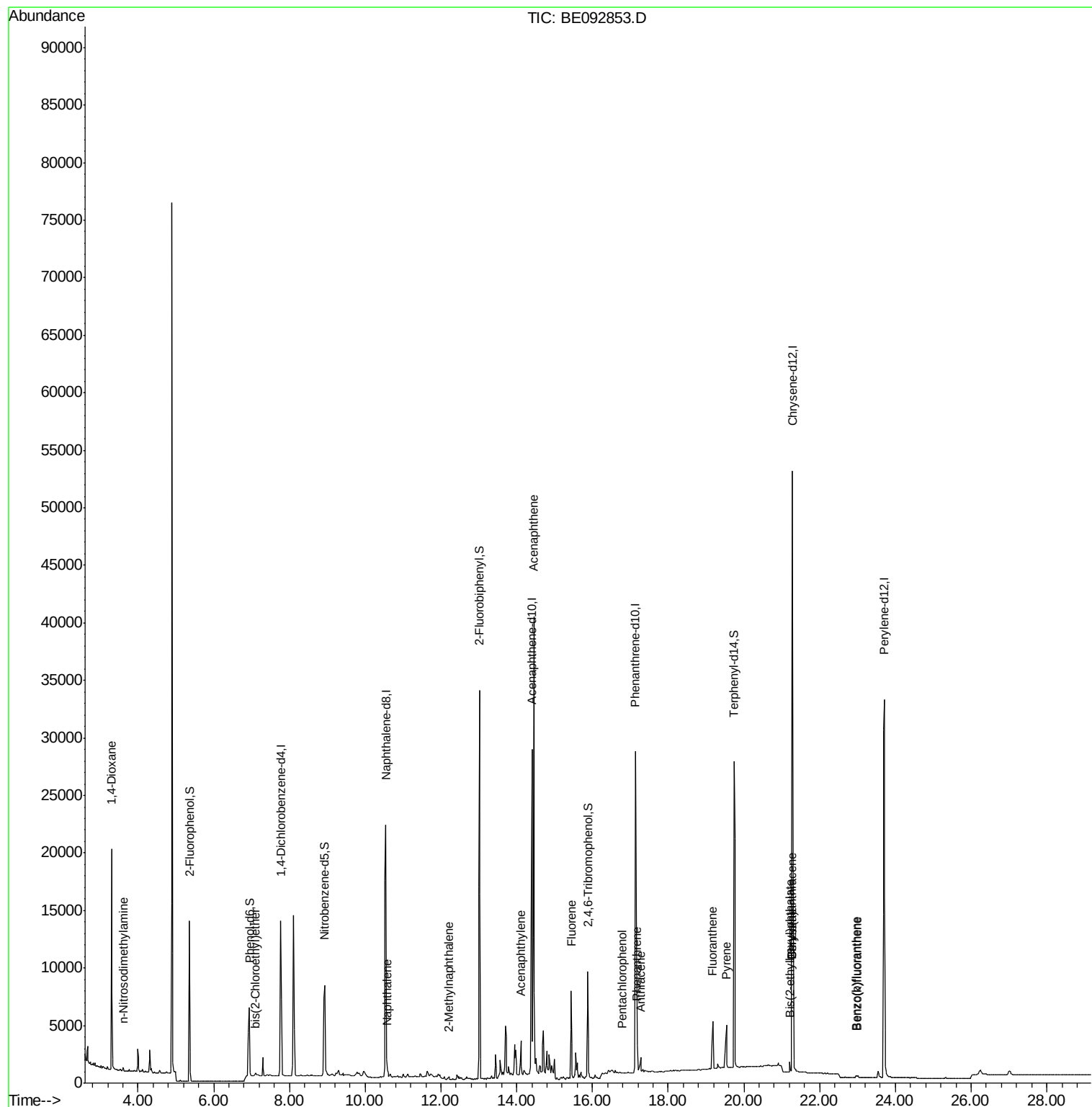
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.77	152	8236	5.00	ng	-0.02
7) Naphthalene-d8	10.55	136	36756	5.00	ng	0.00
12) Acenaphthene-d10	14.40	164	19123	5.00	ng	0.00
18) Phenanthrene-d10	17.13	188	43003	5.00	ng	-0.02
24) Chrysene-d12	21.28	240	54316	5.00	ng	-0.02
31) Perylene-d12	23.71	264	48831	5.00	ng	0.00
System Monitoring Compounds						
4) 2-Fluorophenol	5.36	112	9680	5.05	ng	0.00
5) Phenol-d6	6.94	99	9462	3.36	ng	0.00
8) Nitrobenzene-d5	8.92	82	10453	4.95	ng	0.00
13) 2,4,6-Tribromophenol	15.88	330	5378	18.00	ng	0.00
14) 2-Fluorobiphenyl	13.02	172	30877	4.90	ng	-0.01
26) Terphenyl-d14	19.74	244	39483	4.21	ng	-0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	3.31	88	10811	9.82	ng	97
3) n-Nitrosodimethylamine	3.61	42	52	0.05	ng	# 1
6) bis(2-Chloroethyl)ether	7.11	93	524	0.20	ng	# 54
9) Naphthalene	10.58	128	1102	0.14	ng	# 74
11) 2-Methylnaphthalene	12.21	142	195	0.04	ng	# 82
15) Acenaphthylene	14.11	152	2655	0.09	ng	# 3
16) Acenaphthene	14.45	154	7373	1.41	ng	91
17) Fluorene	15.44	166	5405	0.87	ng	95
20) Pentachlorophenol	16.79	266	17	0.26	ng	# 74
21) Phenanthrene	17.18	178	2601	0.25	ng	98
22) Anthracene	17.27	178	1664	0.17	ng	# 94
23) Fluoranthene	19.18	202	6059	0.13	ng	# 90
25) Pyrene	19.54	202	5013	0.09	ng	# 91
27) Benzo(a)anthracene	21.26	228	642	0.05	ng	# 68
28) Chrysene	21.26	228	642	0.05	ng	# 80
29) Bis(2-ethylhexyl)phthalate	21.21	149	901	0.28	ng	# 78
32) Benzo(b)fluoranthene	22.96	252	266	0.02	ng	# 23
33) Benzo(k)fluoranthene	23.01	252	247	0.02	ng	# 20

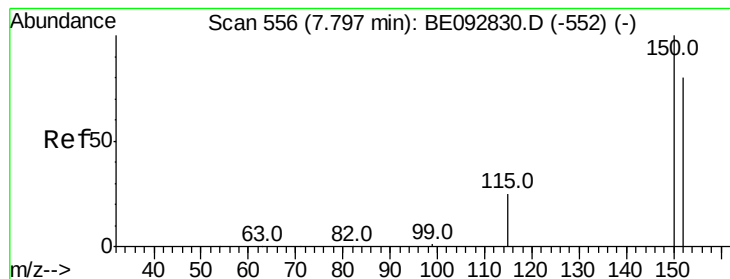
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.77 min Scan# 555

Delta R.T. -0.02 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

Instrument :

BNA_E

ClientSampleId :

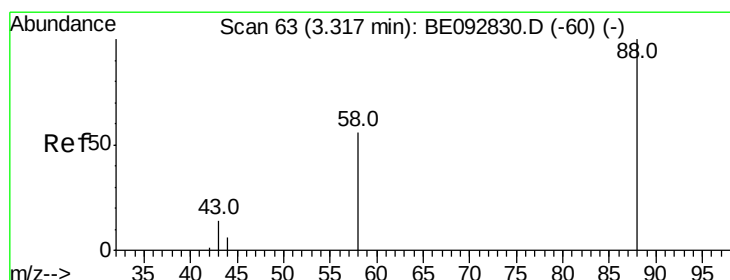
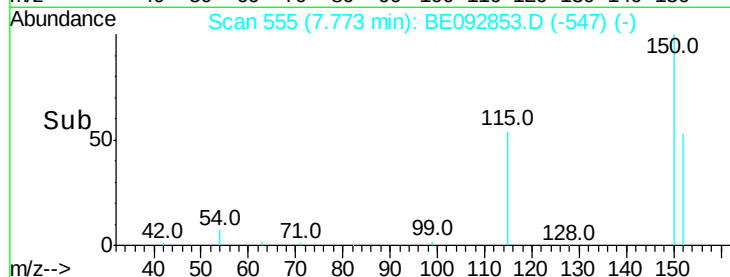
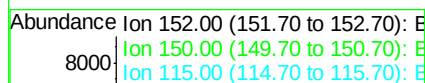
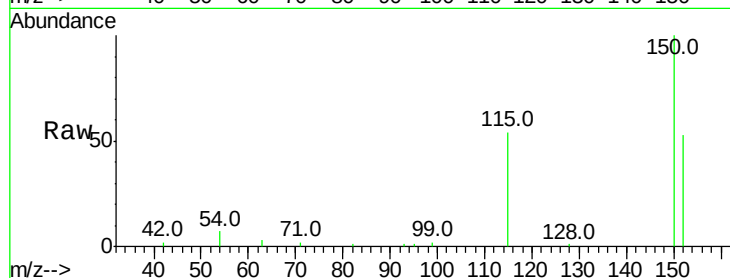
Tot Ion:152 Resp: 8236

Ion Ratio Lower Upper

152 100

150 187.7 106.0 159.0#

115 101.2 31.2 46.8#



#2

1,4-Dioxane

Concen: 9.82 ng

RT: 3.31 min Scan# 62

Delta R.T. -0.01 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

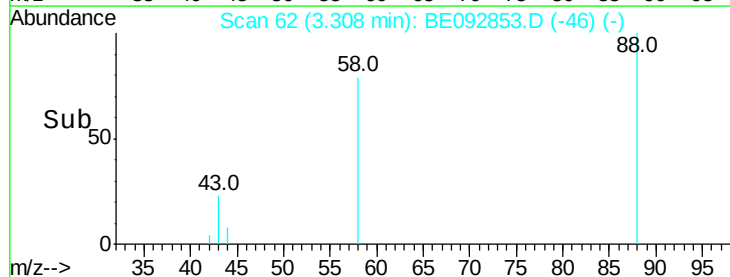
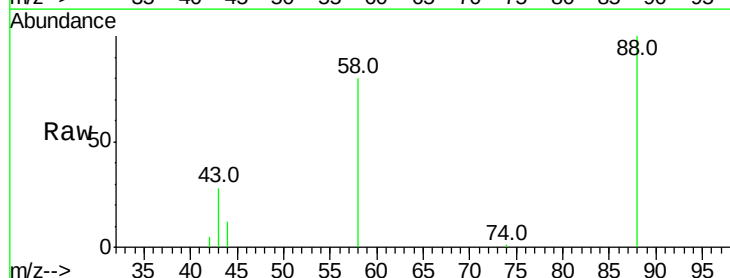
Tgt Ion: 88 Resp: 10811

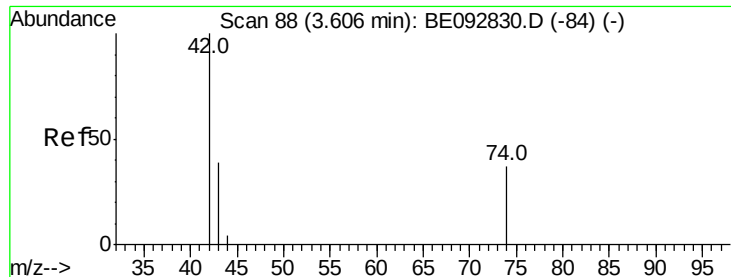
Ion Ratio Lower Upper

88 100

58 80.5 63.6 95.4

43 31.2 28.0 42.0





#3

n-Nitrosodimethylamine

Concen: 0.05 ng

RT: 3.61 min Scan# 88

Delta R.T. 0.00 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

Instrument :

BNA_E

ClientSampleId :

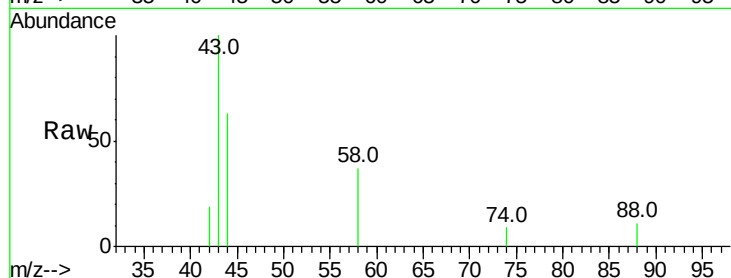
Tot Ion: 42 Resp: 52

Ion Ratio Lower Upper

42 100

74 1.9 86.0 129.0#

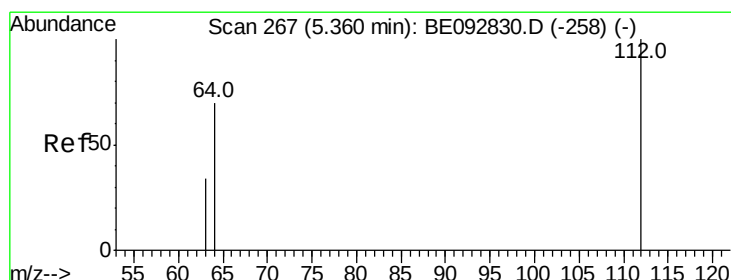
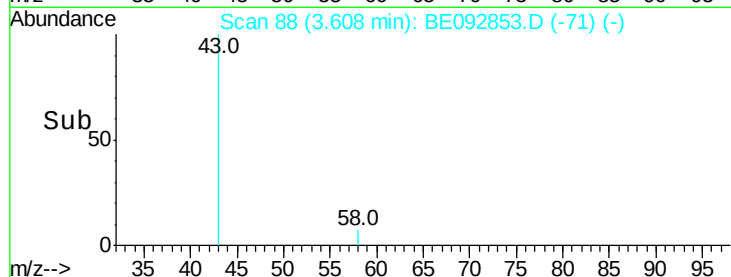
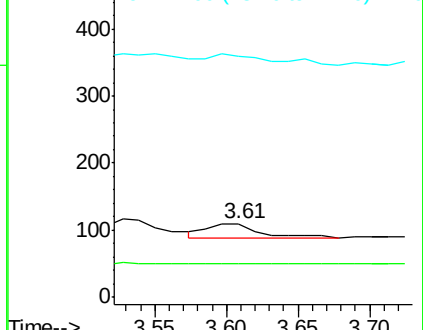
44 107.7 5.1 7.7#



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: 5.05 ng

RT: 5.36 min Scan# 267

Delta R.T. -0.00 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

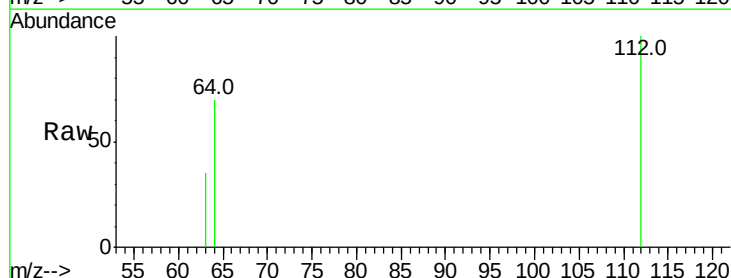
Tgt Ion: 112 Resp: 9680

Ion Ratio Lower Upper

112 100

64 68.8 53.5 80.3

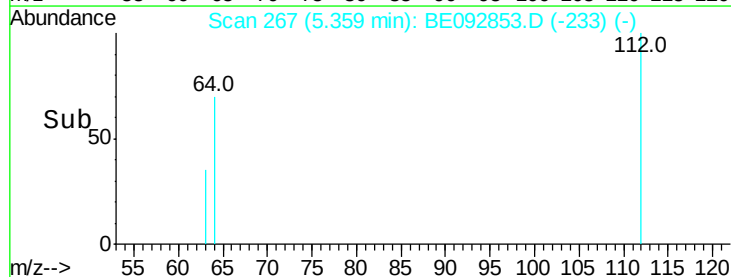
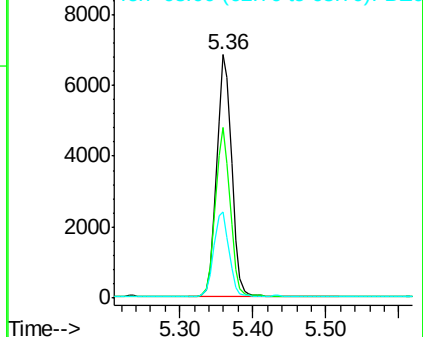
63 35.2 27.9 41.9

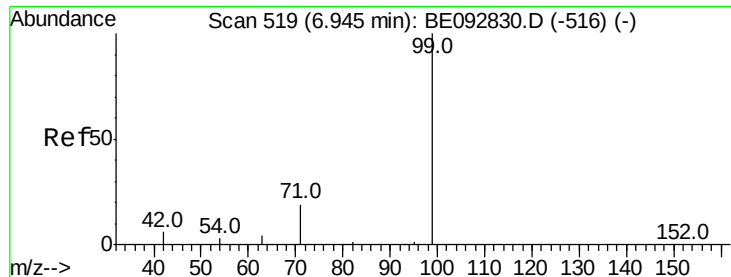


Abundance Ion 112.00 (111.70 to 112.70): E

Ion 64.00 (63.70 to 64.70): BE0

Ion 63.00 (62.70 to 63.70): BE0





#5

Phenol-d6

Concen: 3.36 ng

RT: 6.94 min Scan# 519

Delta R.T. -0.00 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

Instrument :

BNA_E

ClientSampleId :

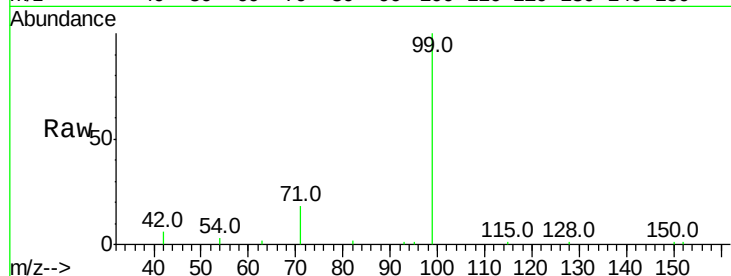
Tot Ion: 99 Resp: 9462

Ion Ratio Lower Upper

99 100

42 0.0 16.0 24.0#

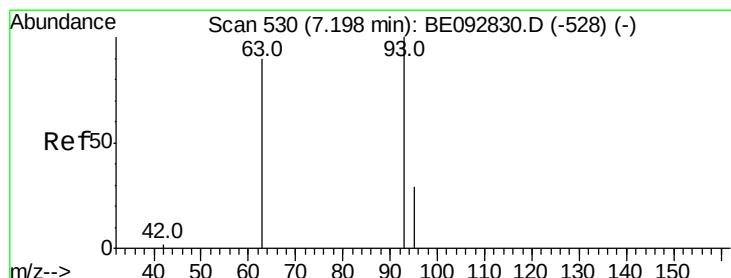
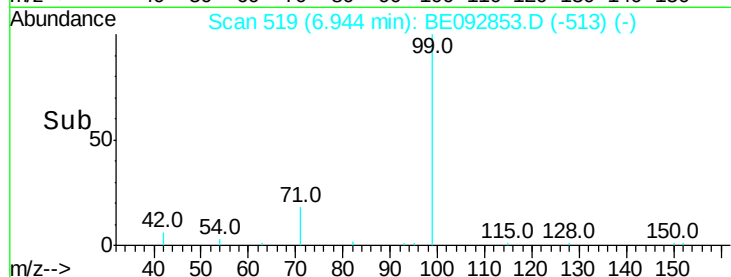
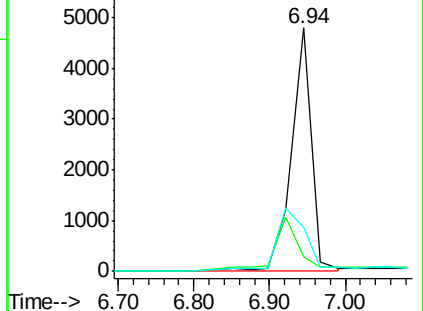
71 0.0 30.6 45.8#



Abundance Ion 99.00 (98.70 to 99.70): BE0

Ion 42.00 (41.70 to 42.70): BE0

Ion 71.00 (70.70 to 71.70): BE0



#6

bis(2-Chloroethyl)ether

Concen: 0.20 ng

RT: 7.11 min Scan# 526

Delta R.T. -0.09 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

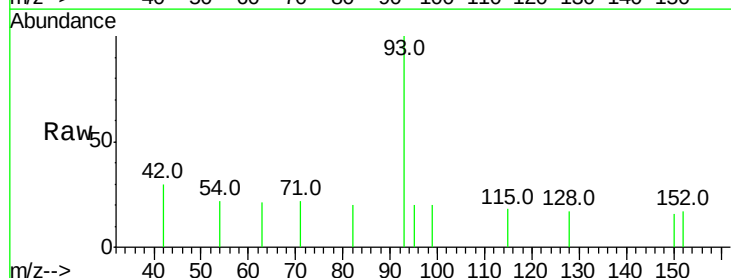
Tgt Ion: 93 Resp: 524

Ion Ratio Lower Upper

93 100

63 5.0 16.0 24.0#

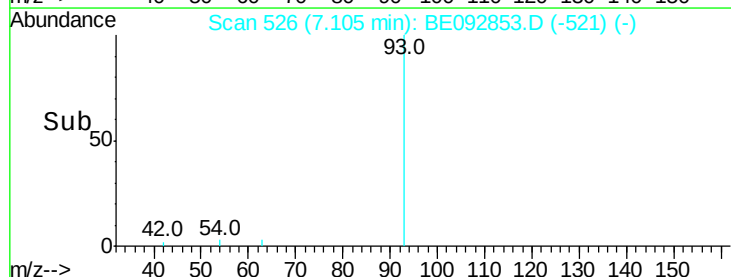
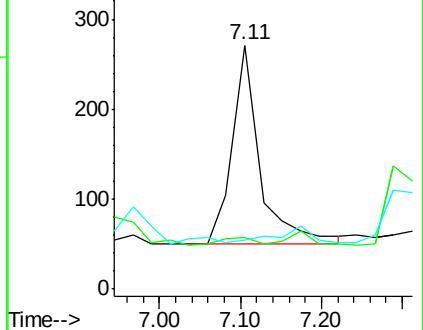
95 0.0 24.0 36.0#

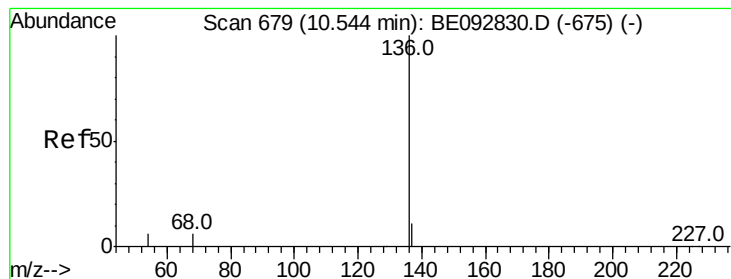


Abundance Ion 93.00 (92.70 to 93.70): BE0

Ion 63.00 (62.70 to 63.70): BE0

Ion 95.00 (94.70 to 95.70): BE0





#7

Naphthalene-d8

Concen: 5.00 ng

RT: 10.55 min Scan# 679

Delta R.T. 0.00 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

Instrument :

BNA_E

ClientSampleId :

Tot Ion:136 Resp: 36756

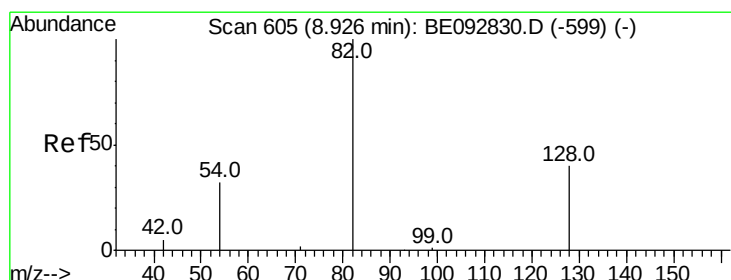
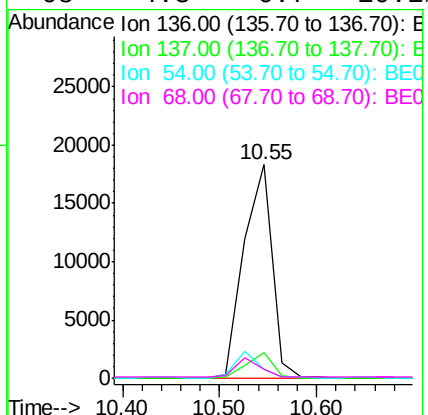
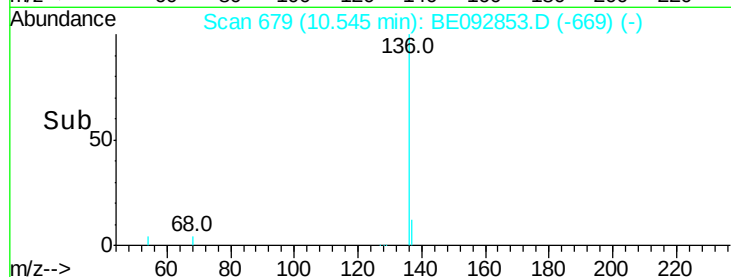
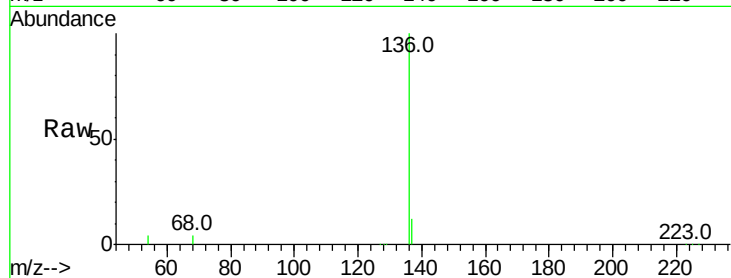
Ion Ratio Lower Upper

136 100

137 12.2 8.2 12.4

54 4.1 9.6 14.4#

68 4.3 6.7 10.1#



#8

Nitrobenzene-d5

Concen: 4.95 ng

RT: 8.92 min Scan# 605

Delta R.T. -0.00 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

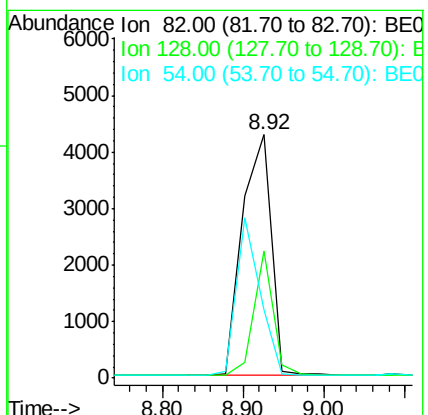
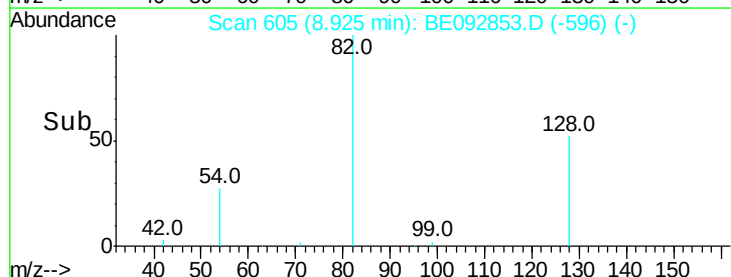
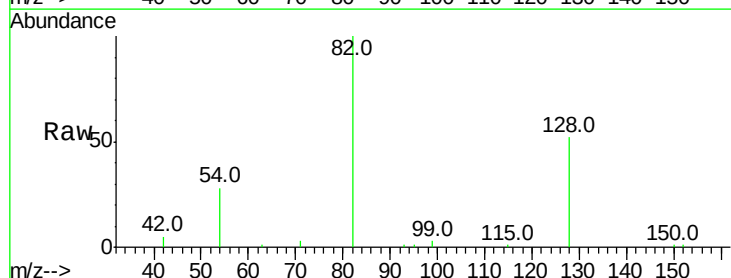
Tgt Ion: 82 Resp: 10453

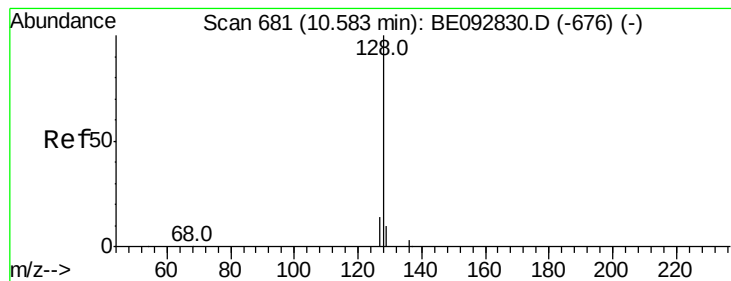
Ion Ratio Lower Upper

82 100

128 52.3 39.0 58.4

54 28.0 44.8 67.2#





#9

Naphthalene

Concen: 0.14 ng

RT: 10.58 min Scan# 681

Delta R.T. 0.00 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

Instrument :

BNA_E

ClientSampleId :

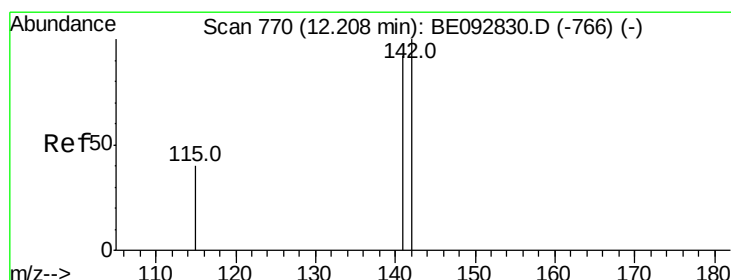
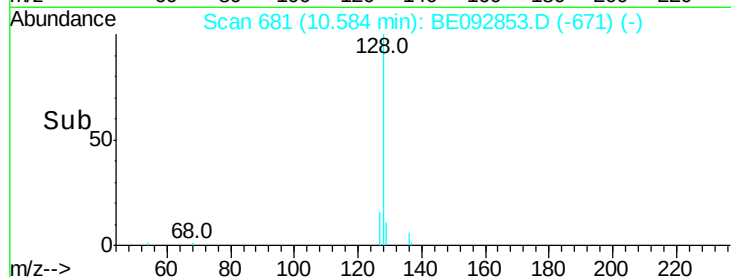
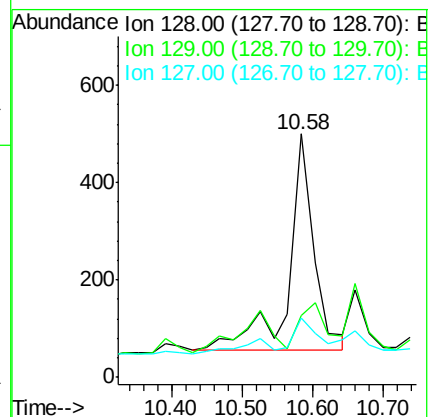
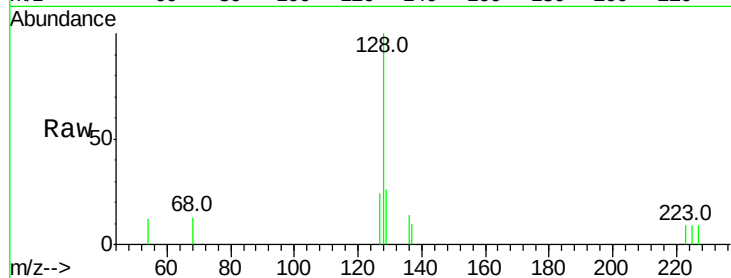
Tot Ion:128 Resp: 1102

Ion Ratio Lower Upper

128 100

129 25.6 11.2 16.8#

127 24.2 11.6 17.4#



#11

2-Methylnaphthalene

Concen: 0.04 ng

RT: 12.21 min Scan# 770

Delta R.T. 0.00 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

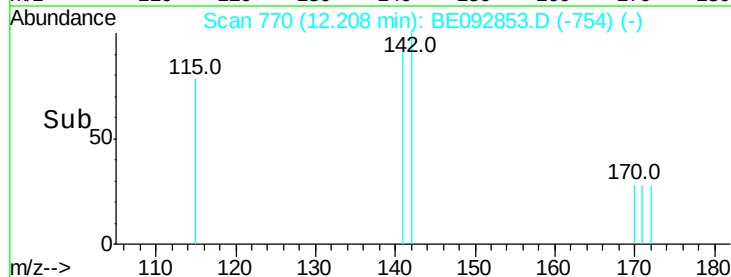
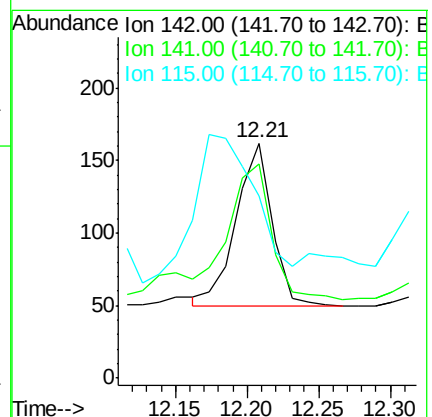
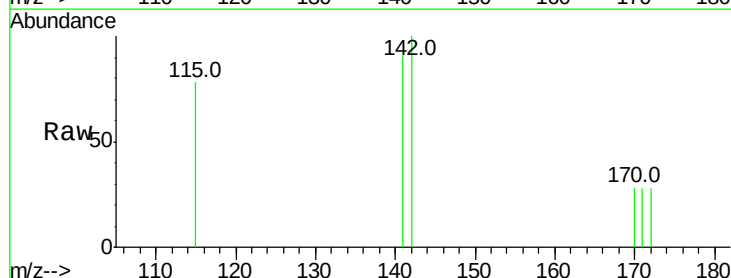
Tgt Ion:142 Resp: 195

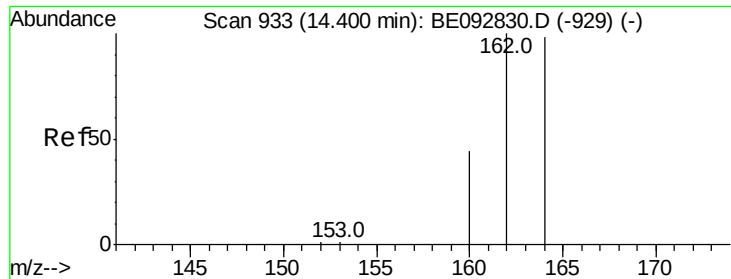
Ion Ratio Lower Upper

142 100

141 91.4 73.7 110.5

115 77.8 34.0 51.0#





#12

Acenaphthene-d10

Concen: 5.00 ng

RT: 14.40 min Scan# 933

Delta R.T. -0.00 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

Instrument :

BNA_E

ClientSampleId :

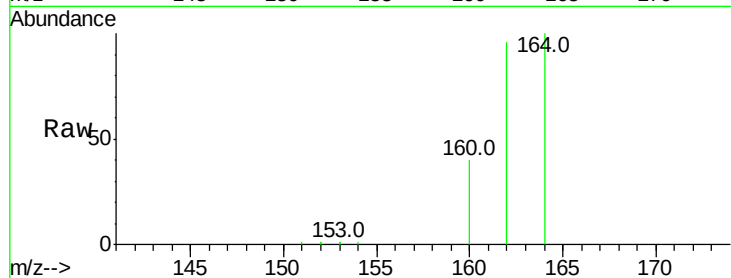
Tot Ion:164 Resp: 19123

Ion Ratio Lower Upper

164 100

162 95.7 71.4 107.0

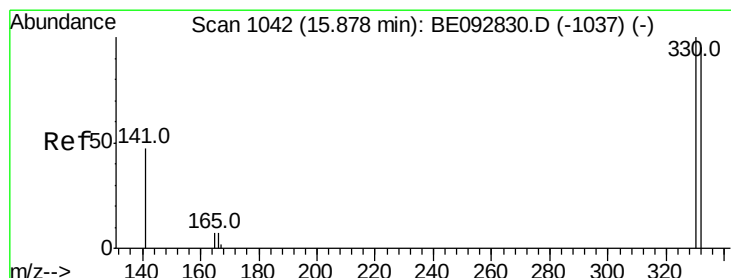
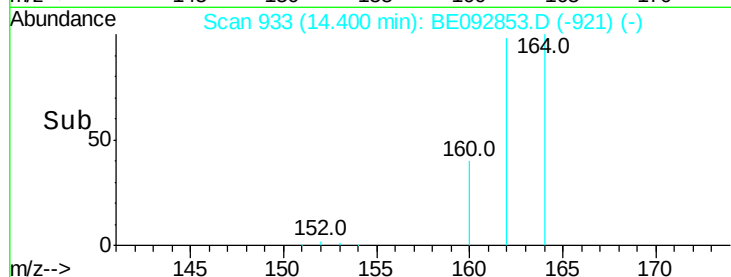
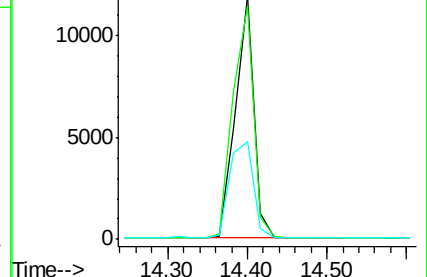
160 40.2 27.4 41.2



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#13

2,4,6-Tribromophenol

Concen: 18.00 ng

RT: 15.88 min Scan# 1042

Delta R.T. -0.00 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

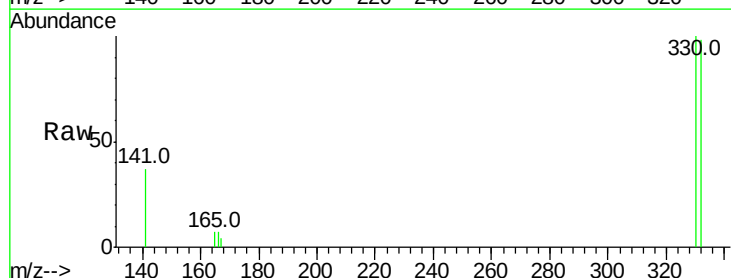
Tgt Ion:330 Resp: 5378

Ion Ratio Lower Upper

330 100

332 96.7 75.4 113.0

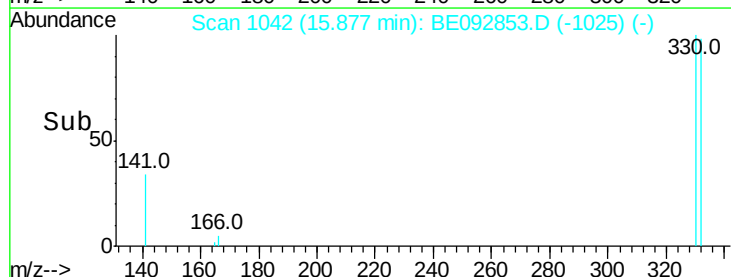
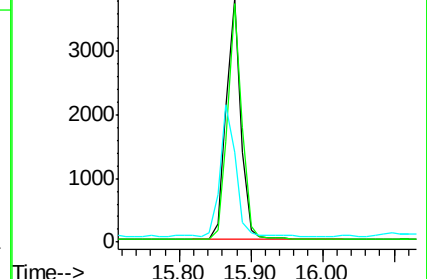
141 57.9 31.0 46.6#

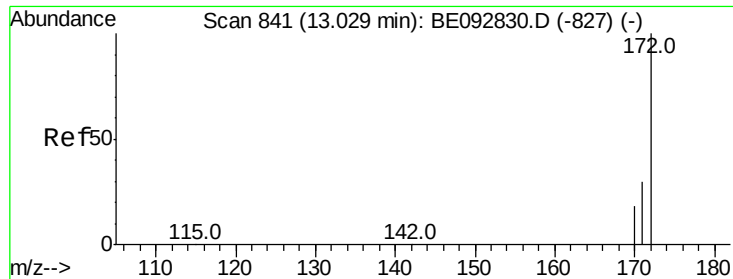


Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E

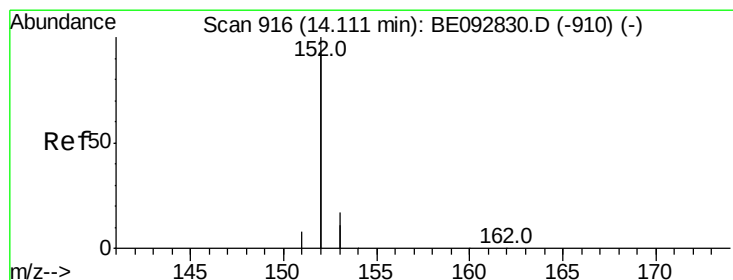
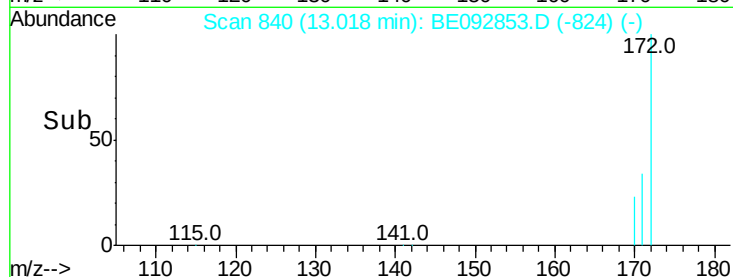
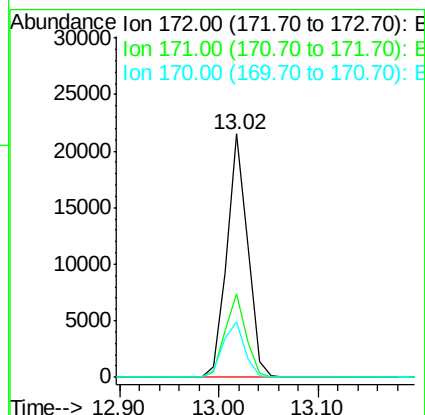
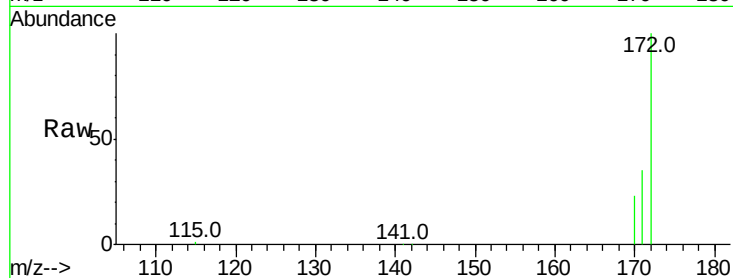




#14
2-Fluorobiphenyl
Concen: 4.90 ng
RT: 13.02 min Scan# 840
Delta R.T. -0.01 min
Lab File: BE092853.D
Acq: 29 Mar 2017 1:48

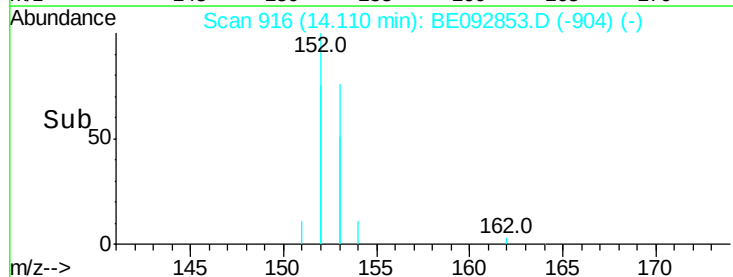
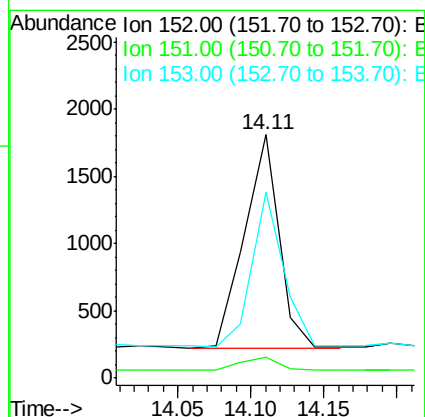
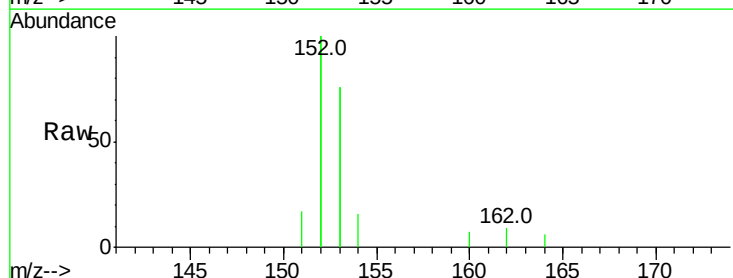
Instrument :
BNA_E
ClientSampled :

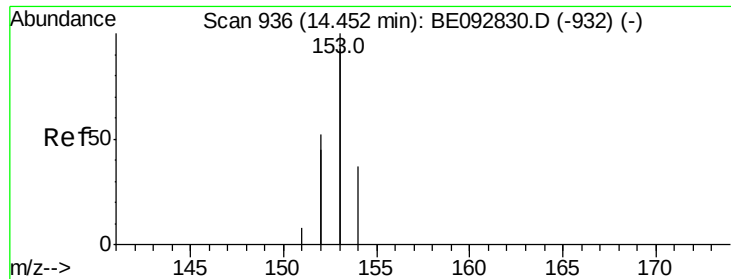
Tot Ion:172 Resp: 30877
Ion Ratio Lower Upper
172 100
171 34.5 30.1 45.1
170 22.9 21.8 32.6



#15
Acenaphthylene
Concen: 0.09 ng
RT: 14.11 min Scan# 916
Delta R.T. -0.00 min
Lab File: BE092853.D
Acq: 29 Mar 2017 1:48

Tgt Ion:152 Resp: 2655
Ion Ratio Lower Upper
152 100
151 6.8 3.9 5.9#
153 65.3 10.4 15.6#

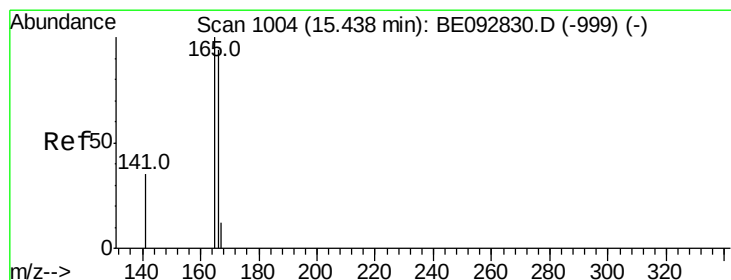
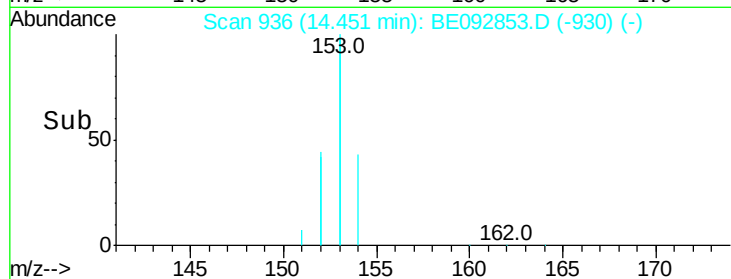
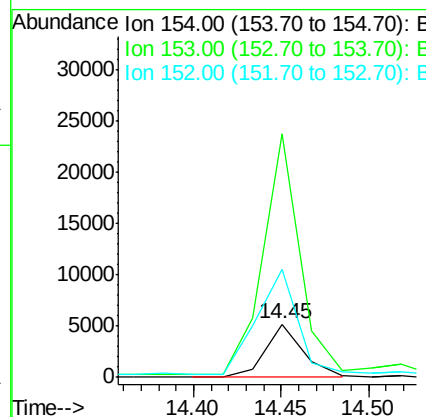
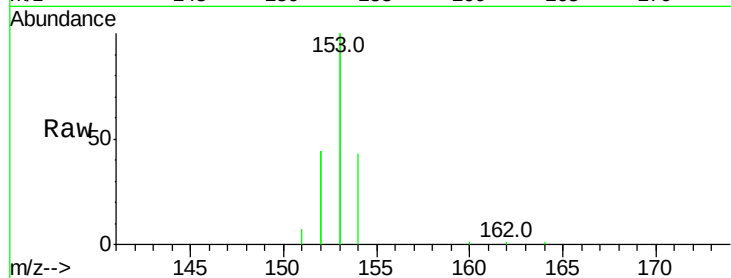




#16
Acenaphthene
Concen: 1.41 ng
RT: 14.45 min Scan# 936
Delta R.T. -0.00 min
Lab File: BE092853.D
Acq: 29 Mar 2017 1:48

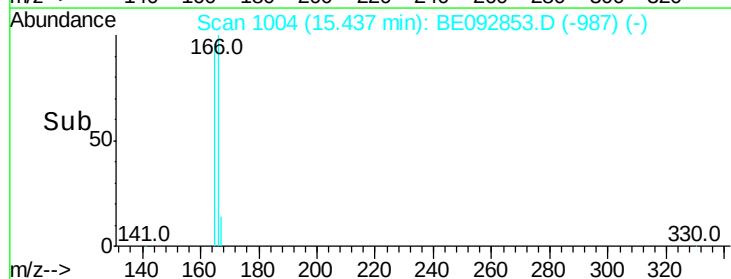
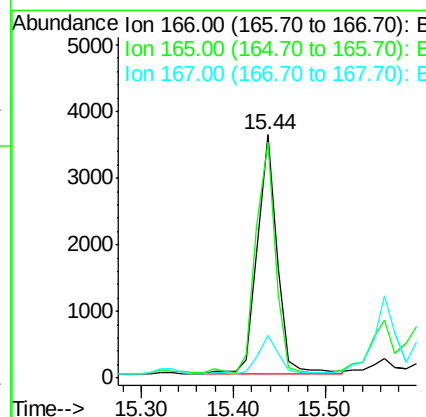
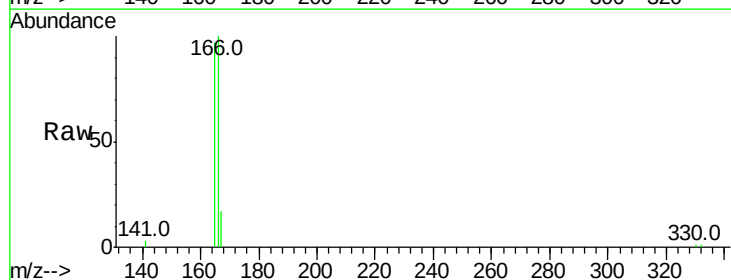
Instrument :
BNA_E
ClientSampleId :

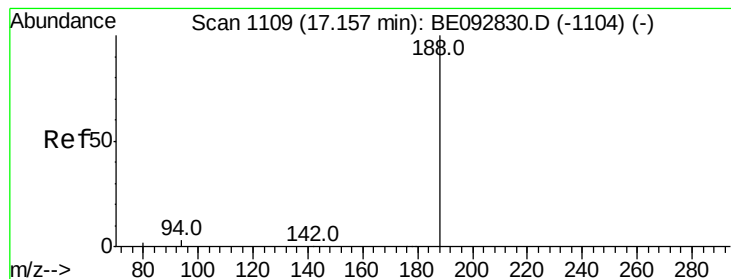
Tot Ion:154 Resp: 7373
Ion Ratio Lower Upper
154 100
153 465.4 350.8 526.2
152 223.5 171.1 256.7



#17
Fluorene
Concen: 0.87 ng
RT: 15.44 min Scan# 1004
Delta R.T. -0.00 min
Lab File: BE092853.D
Acq: 29 Mar 2017 1:48

Tgt Ion:166 Resp: 5405
Ion Ratio Lower Upper
166 100
165 93.4 78.2 117.4
167 15.8 11.0 16.4





#18

Phenanthrene-d10

Concen: 5.00 ng

RT: 17.13 min Scan# 1109

Delta R.T. -0.02 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

Instrument :

BNA_E

ClientSampled :

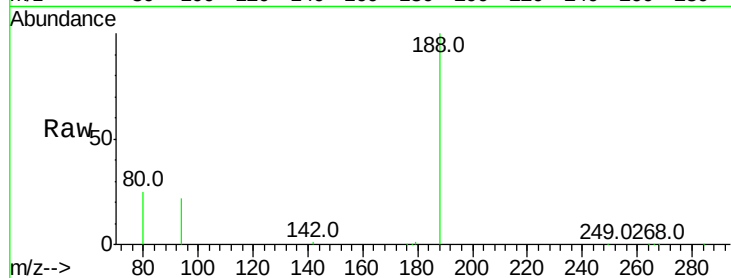
Tot Ion:188 Resp: 43003

Ion Ratio Lower Upper

188 100

94 22.3 3.2 4.8#

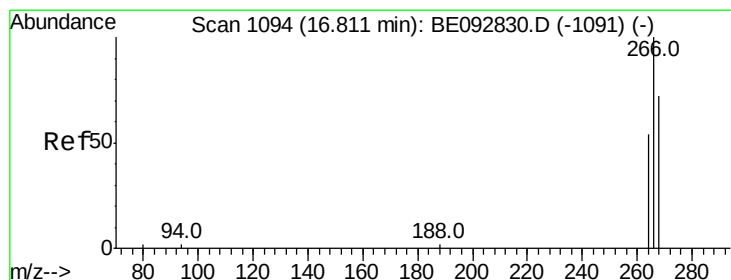
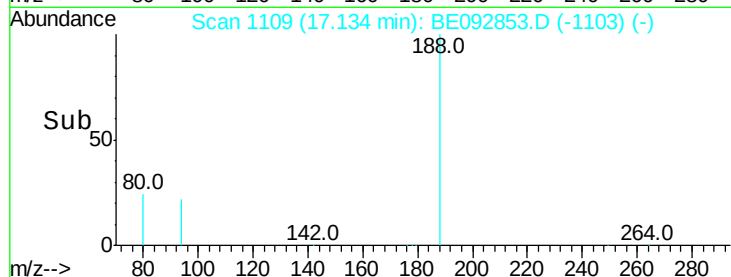
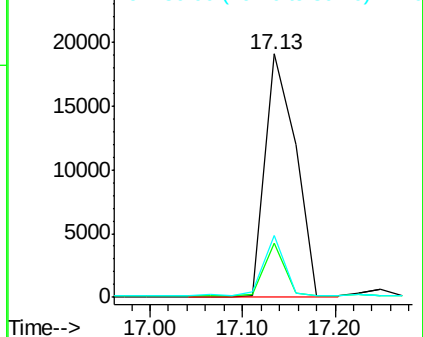
80 25.2 2.6 3.8#



Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0



#20

Pentachlorophenol

Concen: 0.26 ng

RT: 16.79 min Scan# 1094

Delta R.T. -0.02 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

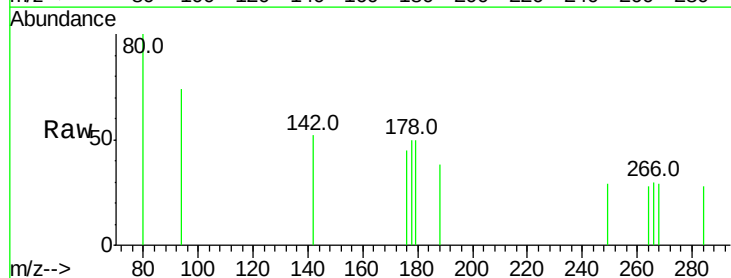
Tgt Ion:266 Resp: 17

Ion Ratio Lower Upper

266 100

268 97.9 62.5 93.7#

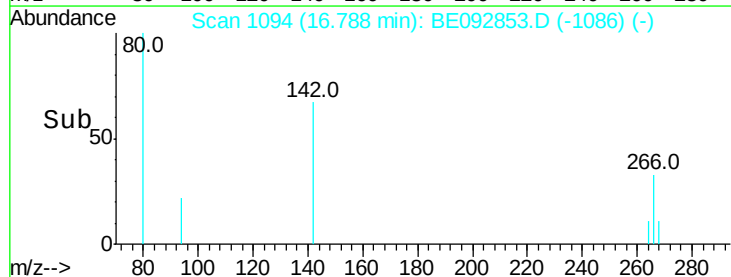
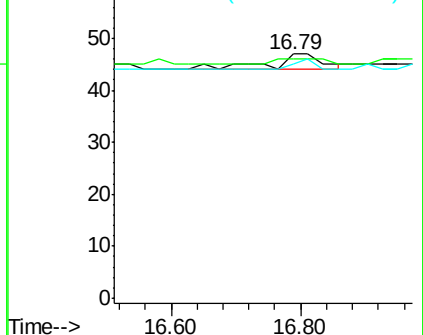
264 95.7 57.2 85.8#

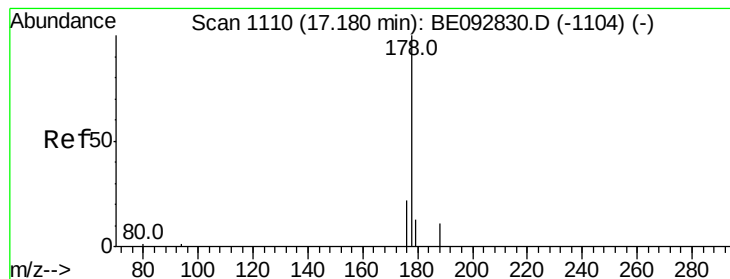


Abundance Ion 265.70 (265.40 to 266.40): E

Ion 268.00 (267.70 to 268.70): E

Ion 264.00 (263.70 to 264.70): E





#21

Phenanthrene

Concen: 0.25 ng

RT: 17.18 min Scan# 1111

Delta R.T. 0.00 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

Instrument :

BNA_E

ClientSampleId :

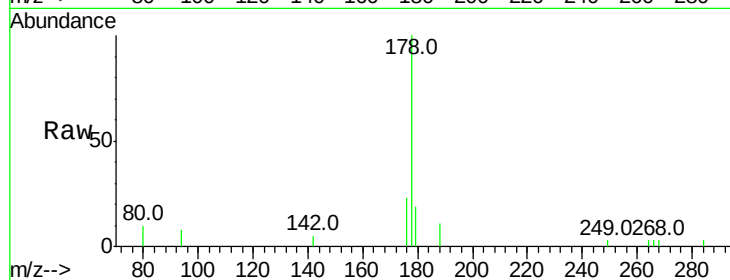
Tot Ion:178 Resp: 2601

Ion Ratio Lower Upper

178 100

176 21.0 15.8 23.8

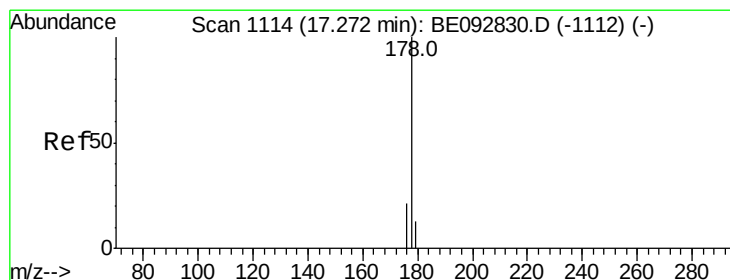
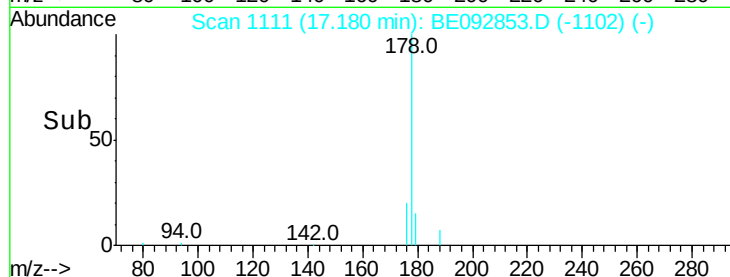
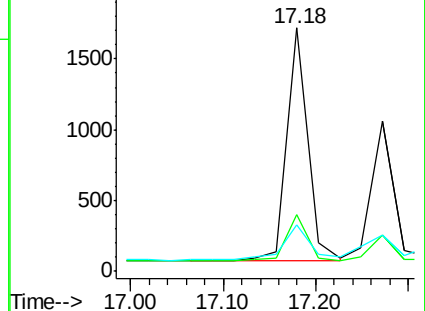
179 20.3 16.0 24.0



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



#22

Anthracene

Concen: 0.17 ng

RT: 17.27 min Scan# 1115

Delta R.T. 0.00 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

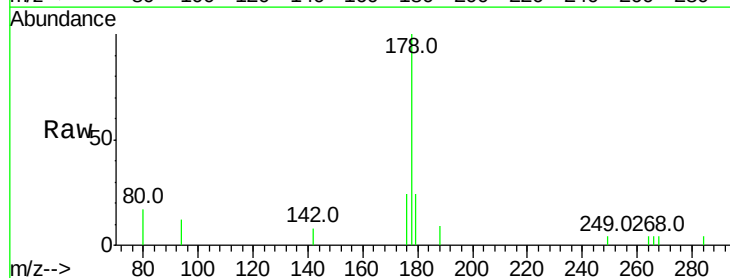
Tgt Ion:178 Resp: 1664

Ion Ratio Lower Upper

178 100

176 17.6 15.0 22.4

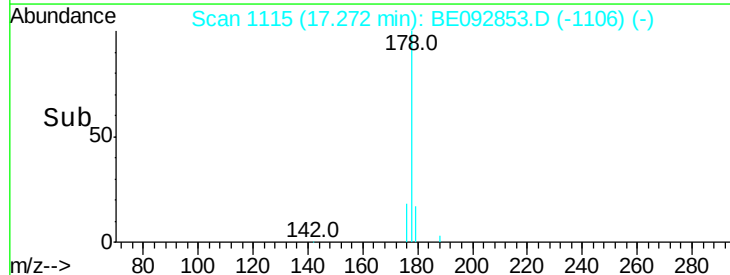
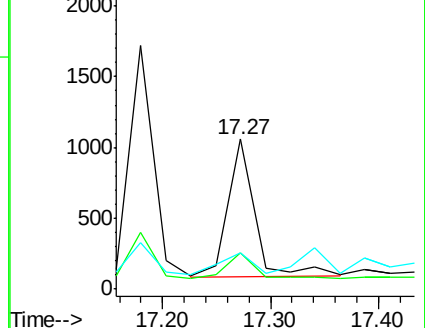
179 19.6 12.2 18.2#

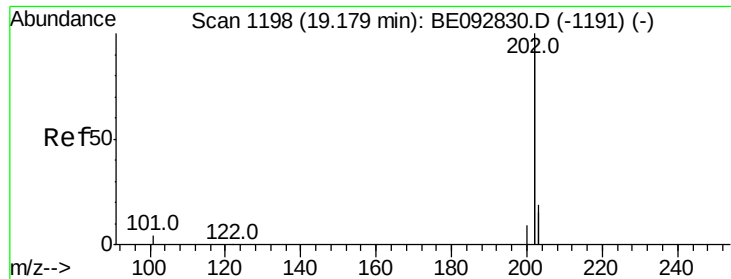


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#23

Fluoranthene

Concen: 0.13 ng

RT: 19.18 min Scan# 1199

Delta R.T. 0.00 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

Instrument :

BNA_E

ClientSampleId :

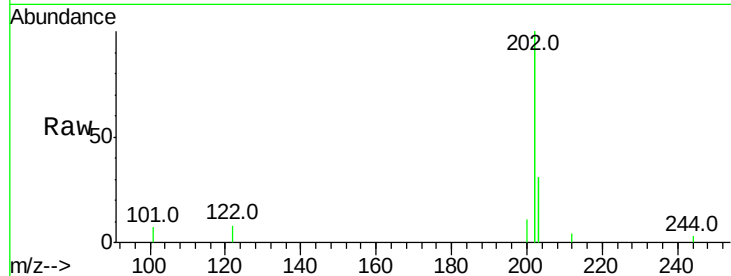
Tot Ion:202 Resp: 6059

Ion Ratio Lower Upper

202 100

101 4.9 2.2 3.4#

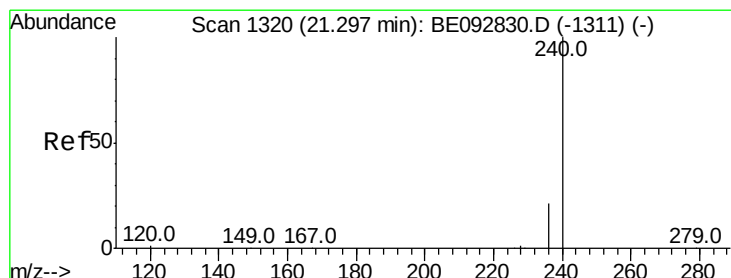
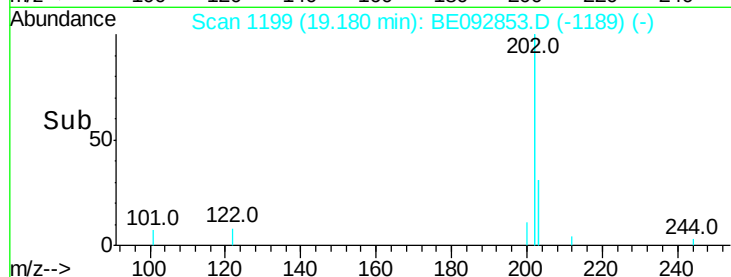
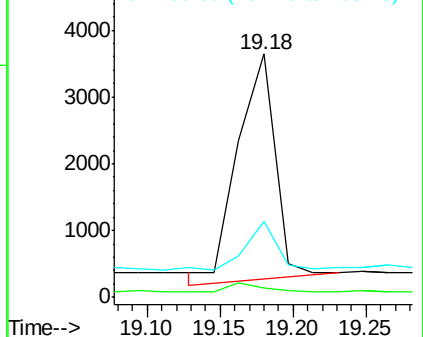
203 21.8 13.7 20.5#



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



#24

Chrysene-d12

Concen: 5.00 ng

RT: 21.28 min Scan# 1320

Delta R.T. -0.02 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

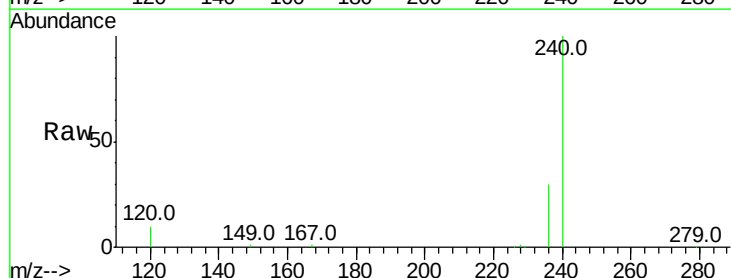
Tgt Ion:240 Resp: 54316

Ion Ratio Lower Upper

240 100

120 9.5 2.6 4.0#

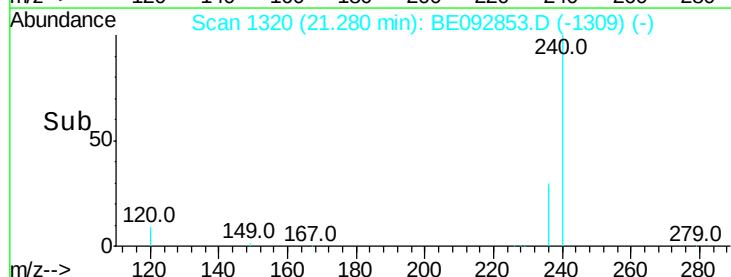
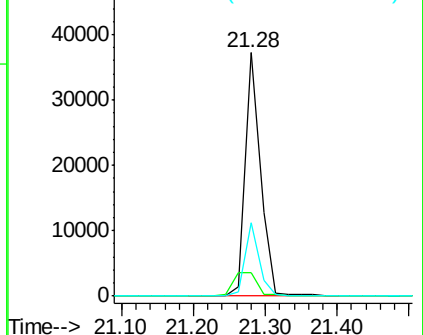
236 30.3 24.6 37.0

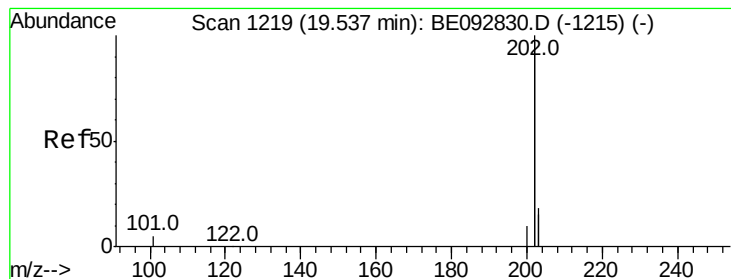


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#25

Pvrene

Concen: 0.09 ng

RT: 19.54 min Scan# 1220

Delta R.T. 0.00 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

Instrument :

BNA_E

ClientSampleId :

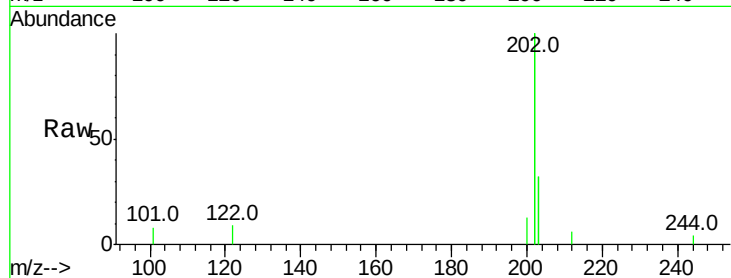
Tot Ion:202 Resp: 5013

Ion Ratio Lower Upper

202 100

200 5.4 4.2 6.4

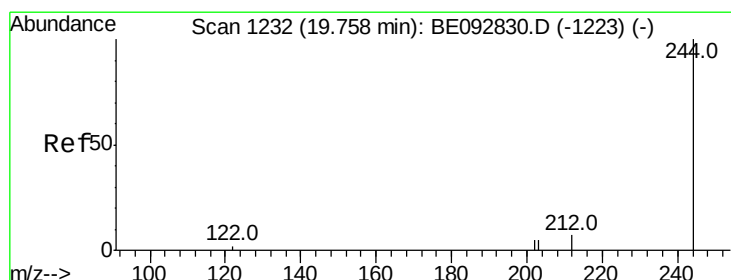
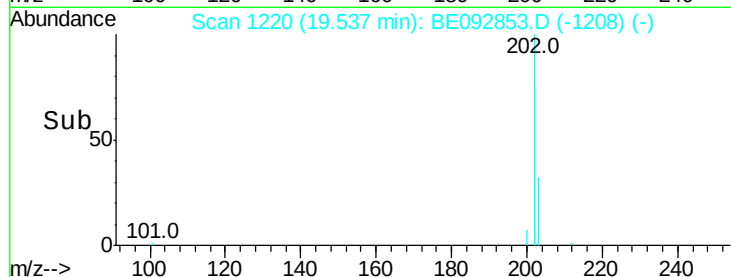
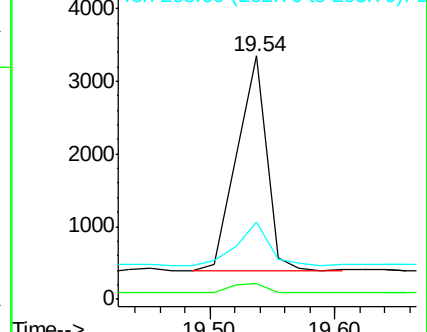
203 22.2 13.9 20.9#



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



#26

Terphenyl-d14

Concen: 4.21 ng

RT: 19.74 min Scan# 1232

Delta R.T. -0.02 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

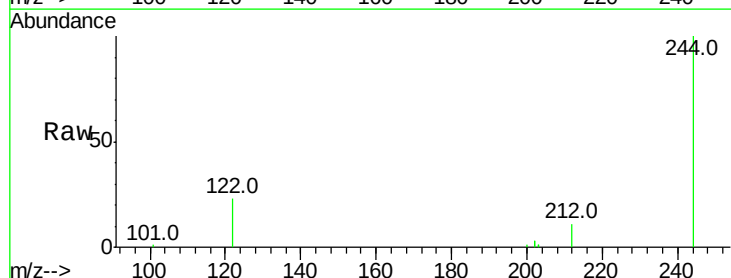
Tgt Ion:244 Resp: 39483

Ion Ratio Lower Upper

244 100

212 11.0 6.7 10.1#

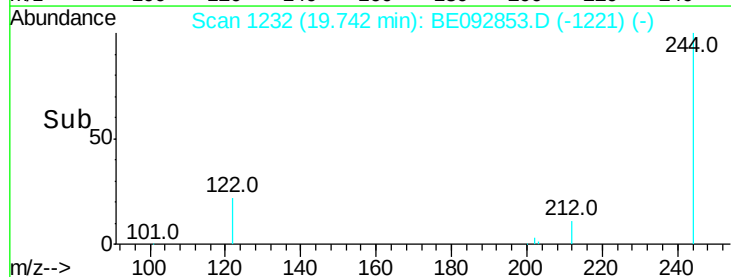
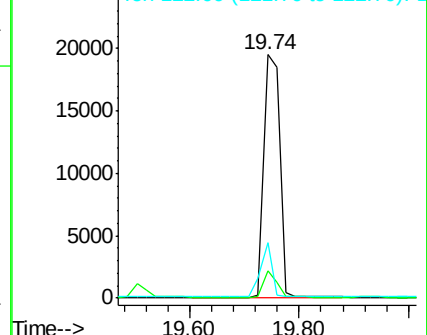
122 22.9 3.6 5.4#

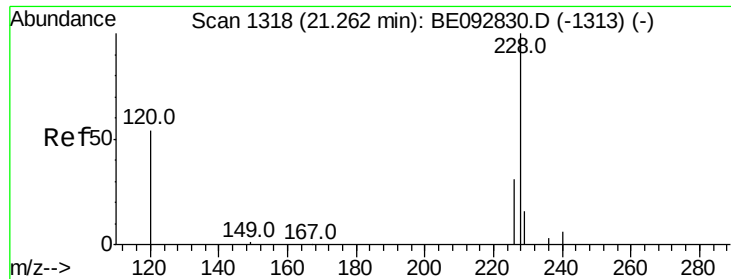


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E

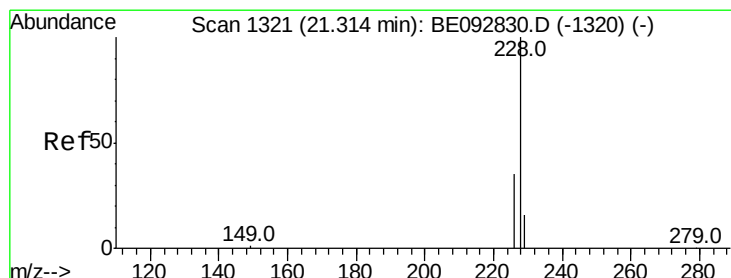
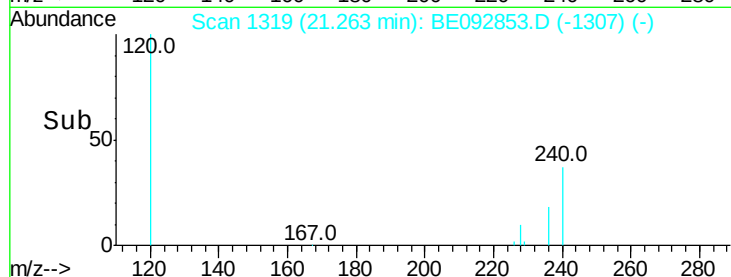
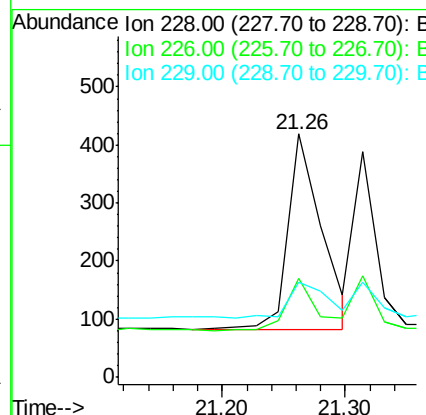
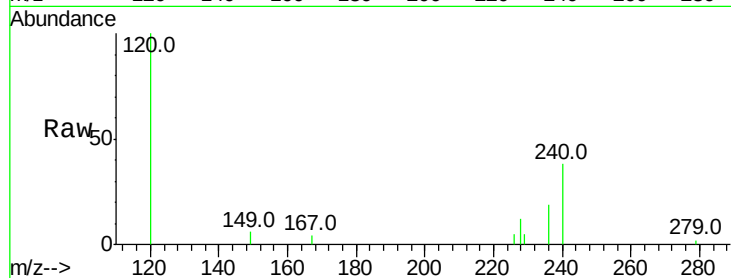




#27
Benzo(a)anthracene
Concen: 0.05 ng
RT: 21.26 min Scan# 1319
Delta R.T. 0.00 min
Lab File: BE092853.D
Acq: 29 Mar 2017 1:48

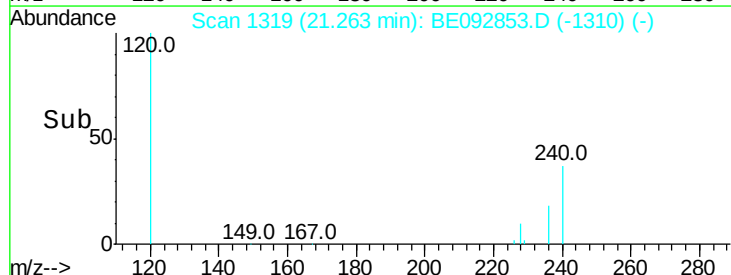
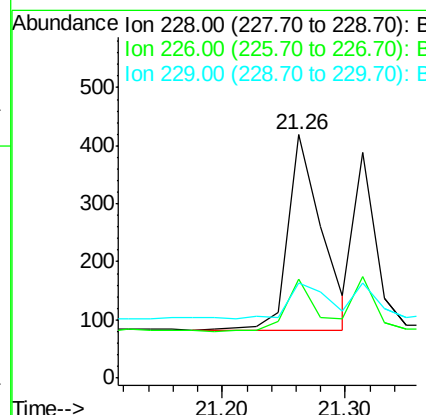
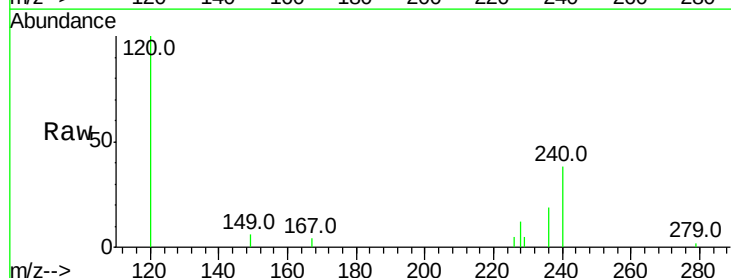
Instrument :
BNA_E
ClientSampleId :

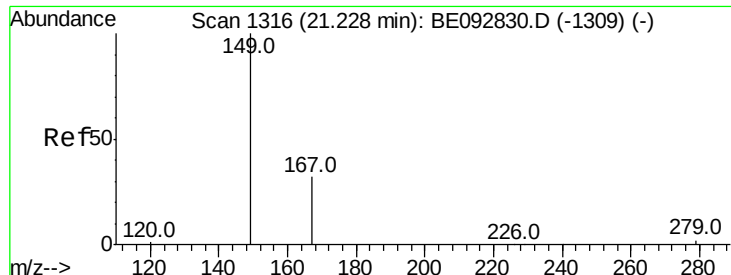
Tot Ion:228 Resp: 642
Ion Ratio Lower Upper
228 100
226 40.6 23.6 35.4#
229 39.1 13.3 19.9#



#28
Chrysene
Concen: 0.05 ng
RT: 21.26 min Scan# 1319
Delta R.T. -0.05 min
Lab File: BE092853.D
Acq: 29 Mar 2017 1:48

Tgt Ion:228 Resp: 642
Ion Ratio Lower Upper
228 100
226 40.6 36.3 54.5
229 39.1 10.6 16.0#





#29

Bis(2-ethylhexyl)phthalate

Concen: 0.28 ng

RT: 21.21 min Scan# 1316

Delta R.T. -0.02 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

Instrument :

BNA_E

ClientSampled :

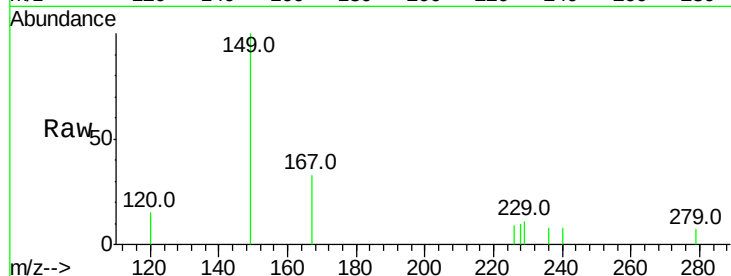
Tot Ion:149 Resp: 901

Ion Ratio Lower Upper

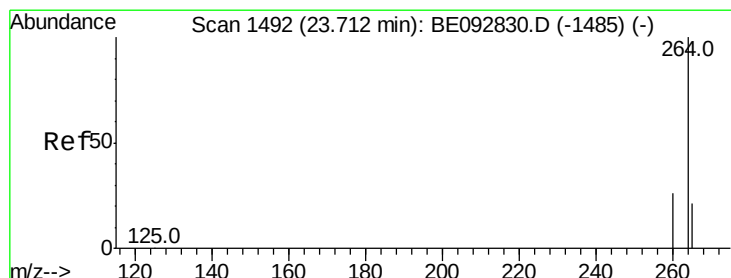
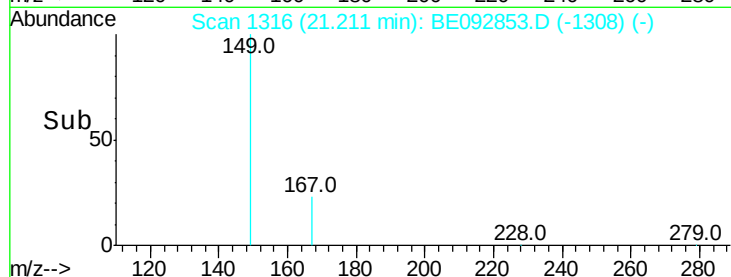
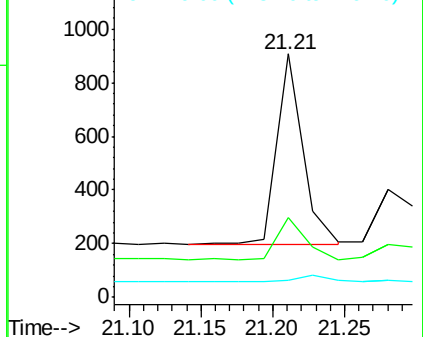
149 100

167 24.4 16.0 24.0#

279 4.3 16.0 24.0#



Abundance Ion 149.00 (148.70 to 149.70): E
Ion 167.00 (166.70 to 167.70): E
Ion 279.00 (278.70 to 279.70): E



#31

Perylene-d12

Concen: 5.00 ng

RT: 23.71 min Scan# 1493

Delta R.T. -0.00 min

Lab File: BE092853.D

Acq: 29 Mar 2017 1:48

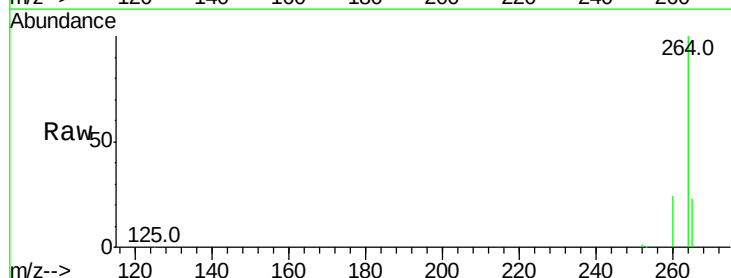
Tgt Ion:264 Resp: 48831

Ion Ratio Lower Upper

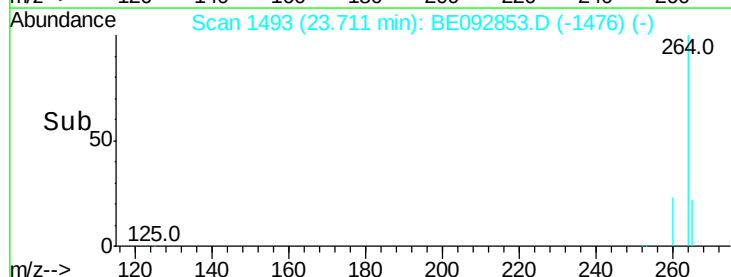
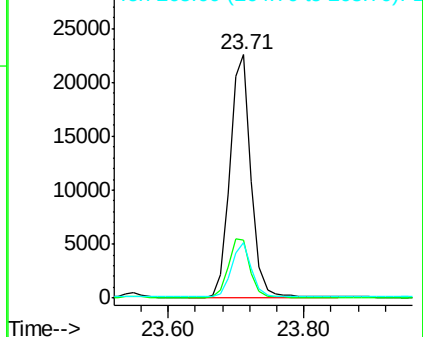
264 100

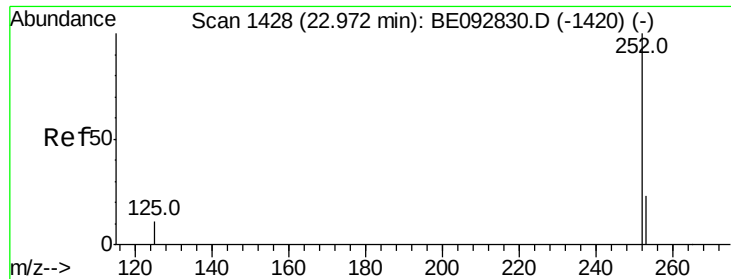
260 23.6 20.1 30.1

265 22.8 17.9 26.9



Abundance Ion 264.00 (263.70 to 264.70): E
Ion 260.00 (259.70 to 260.70): E
Ion 265.00 (264.70 to 265.70): E

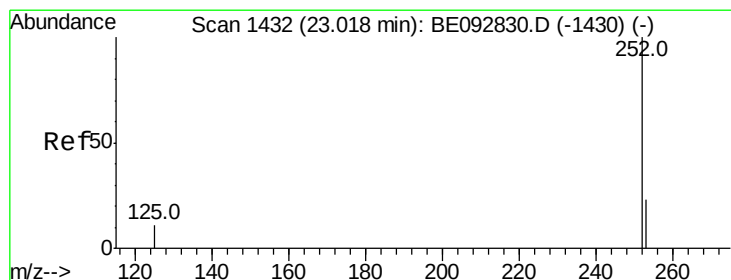
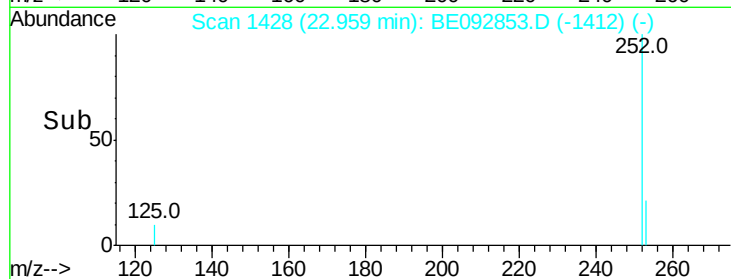
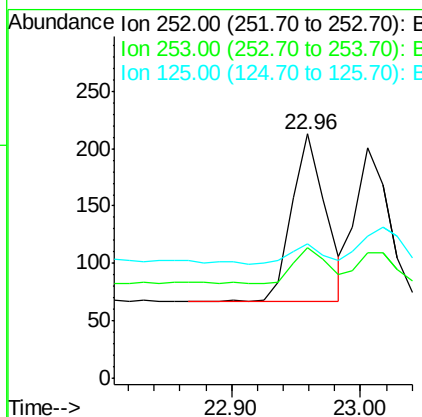
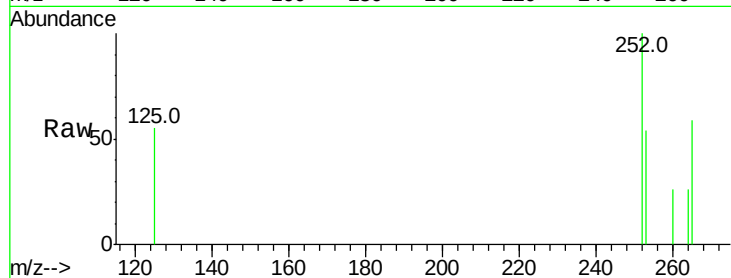




#32
Benzo(b)fluoranthene
Concen: 0.02 ng
RT: 22.96 min Scan# 1428
Delta R.T. -0.01 min
Lab File: BE092853.D
Acq: 29 Mar 2017 1:48

Instrument :
BNA_E
ClientSampleId :

Tot Ion:252 Resp: 266
Ion Ratio Lower Upper
252 100
253 53.5 18.7 28.1#
125 54.9 10.5 15.7#



#33
Benzo(k)fluoranthene
Concen: 0.02 ng
RT: 23.01 min Scan# 1432
Delta R.T. -0.01 min
Lab File: BE092853.D
Acq: 29 Mar 2017 1:48

Tgt Ion:252 Resp: 247
Ion Ratio Lower Upper
252 100
253 54.2 20.3 30.5#
125 61.7 9.6 14.4#

