

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088240.D
 Acq On : 25 Oct 2014 9:28
 Operator : TP/JJ
 Sample : F4368-03
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS33-1014

Quant Time: Oct 27 13:48:54 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102414.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Mon Oct 27 13:04:40 2014
 Response via : Initial Calibration

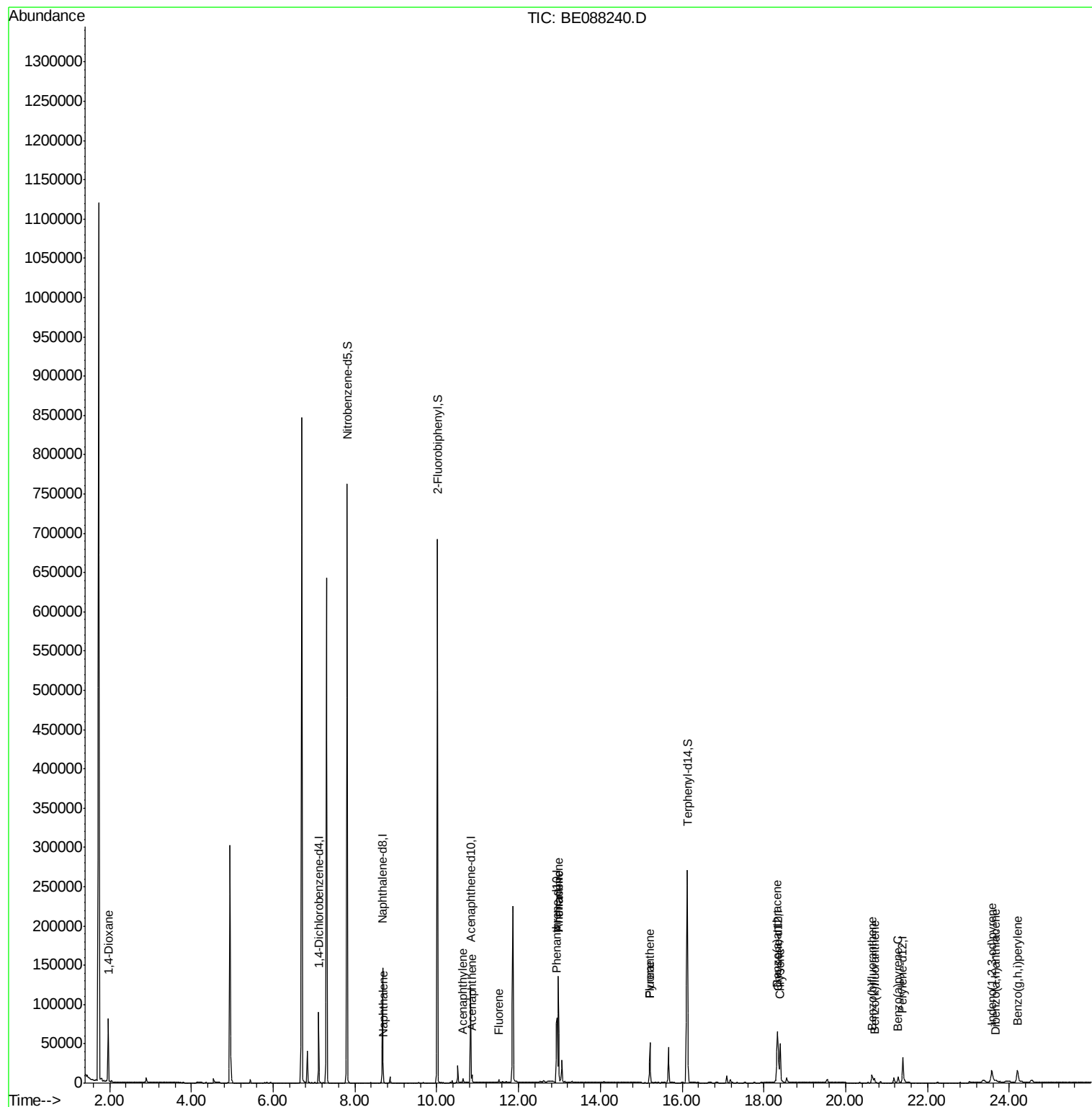
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.12	152	26841	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	108482	5.00	ng	0.00
7) Acenaphthene-d10	10.83	164	56733	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	112242	5.00	ng	0.00
16) Chrysene-d12	18.34	240	52216	5.00	ng	0.00
22) Perylene-d12	21.40	264	44494	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.81	82	471980	57.55	ng	0.02
8) 2-Fluorobiphenyl	10.02	172	547119	34.58	ng	0.00
18) Terphenyl-d14	16.13	244	444751	52.01	ng	0.02
Target Compounds						Qvalue
2) 1,4-Dioxane	1.97	88	2588	0.69	ng	# 1
5) Naphthalene	8.70	128	447	0.02	ng	# 79
9) Acenaphthylene	10.64	152	5540	0.07	ng	# 94
10) Acenaphthene	10.86	154	1226	0.09	ng	89
11) Fluorene	11.52	166	1614	0.12	ng	94
13) Phenanthrene	12.97	178	151945	1.40	ng	94
14) Anthracene	12.97	178	151945	1.90	ng	94
15) Fluoranthene	15.21	202	48543	2.96	ng	99
17) Pyrene	15.21	202	47968	3.35	ng	100
19) Benzo(a)anthracene	18.33	228	63779	1.55	ng	99
20) Chrysene	18.40	228	68404	1.47	ng	99
21) Indeno(1,2,3-cd)pyrene	23.57	276	34171	0.91	ng	# 75
23) Benzo(b)fluoranthene	20.64	252	17792	2.00	ng	98
24) Benzo(k)fluoranthene	20.70	252	7274	0.63	ng	96
25) Benzo(a)pyrene	21.28	252	11484	1.36	ng	98
26) Dibenzo(a,h)anthracene	23.67	278	1728	0.39	ng	# 86
27) Benzo(g,h,i)perylene	24.20	276	32614	0.91	ng	98

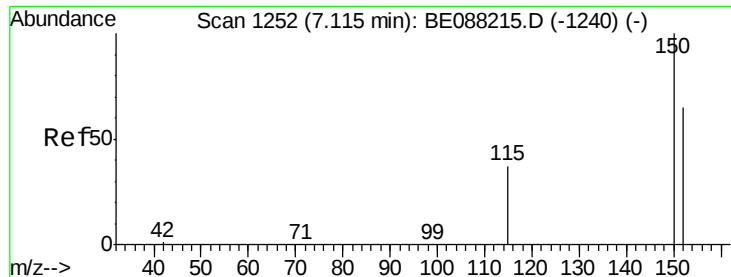
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.12 min Scan# 1253

Delta R.T. 0.00 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014

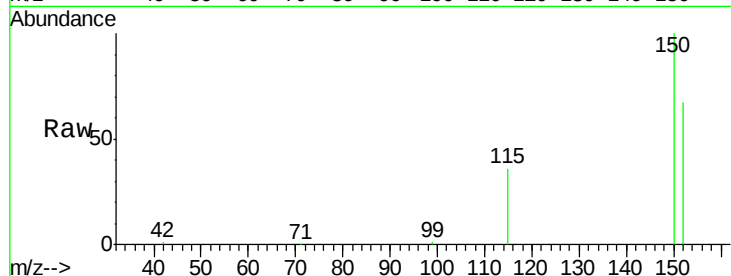
Tgt Ion:152 Resp: 26841

Ion Ratio Lower Upper

152 100

150 149.2 123.2 184.8

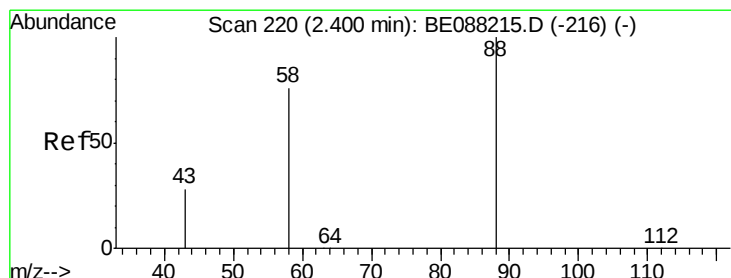
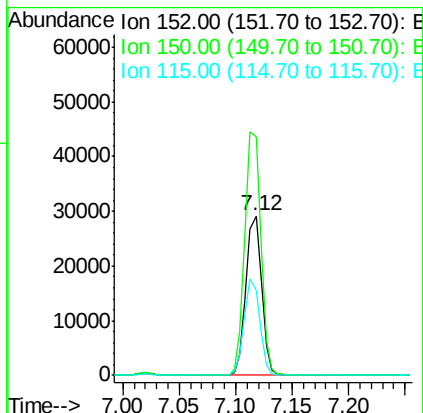
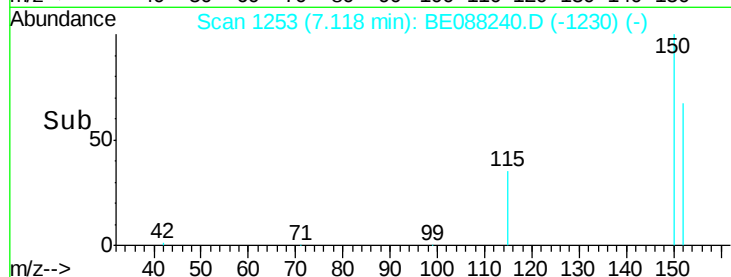
115 53.0 45.3 67.9



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: 0.69 ng

RT: 1.97 min Scan# 125

Delta R.T. -0.43 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

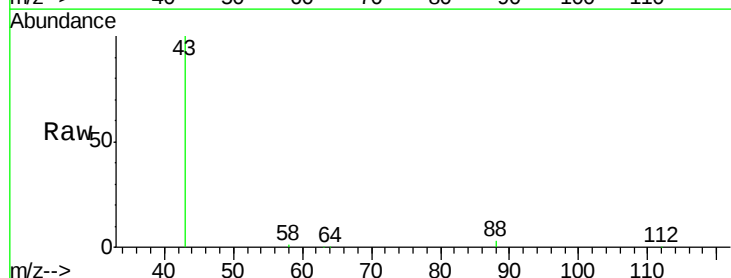
Tgt Ion: 88 Resp: 2588

Ion Ratio Lower Upper

88 100

58 25.2 59.0 88.4#

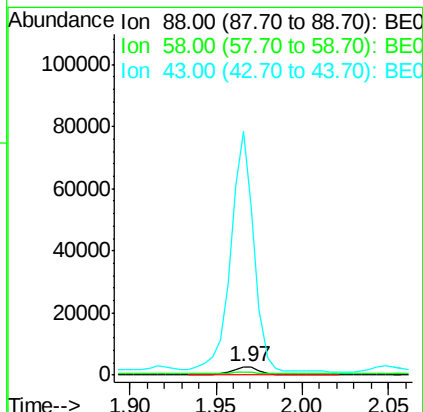
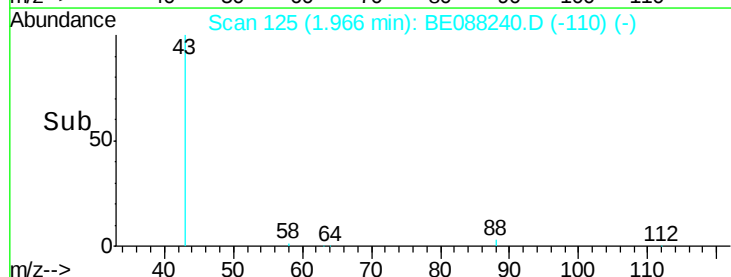
43 2781.6 21.9 32.9#

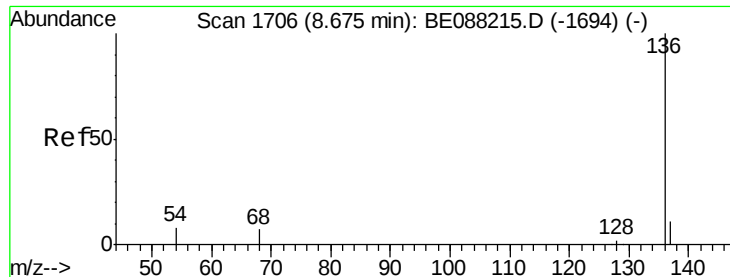


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0

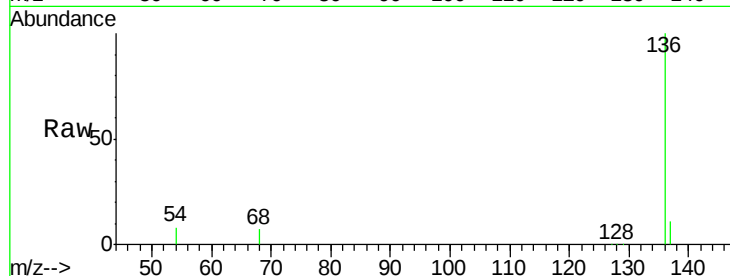




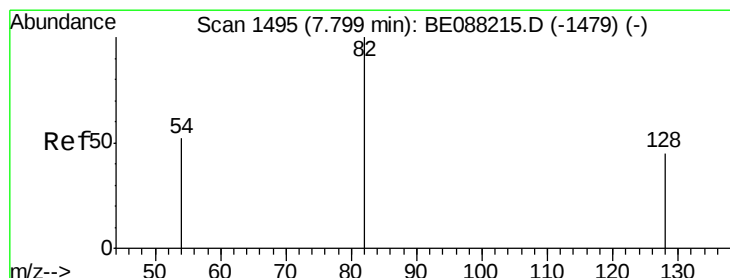
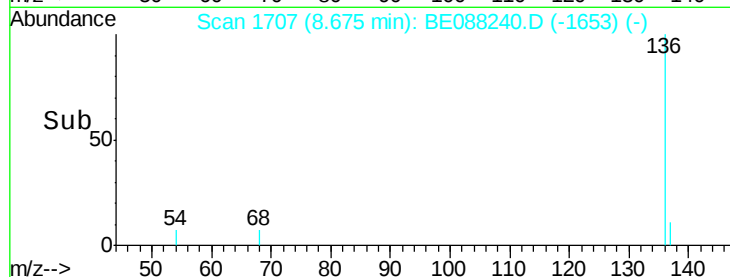
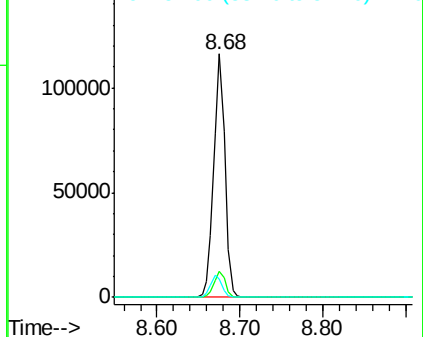
#3
Naphthalene-d8
Concen: 5.00 ng
RT: 8.68 min Scan# 1707
Delta R.T. 0.00 min
Lab File: BE088240.D
Acq: 25 Oct 2014 9:28

Instrument :
BNA_E
ClientSampleId :
YS19-SS33-1014

Tgt Ion: 136 Resp: 108482
Ion Ratio Lower Upper
136 100
137 10.9 8.7 13.1
54 7.7 6.1 9.1

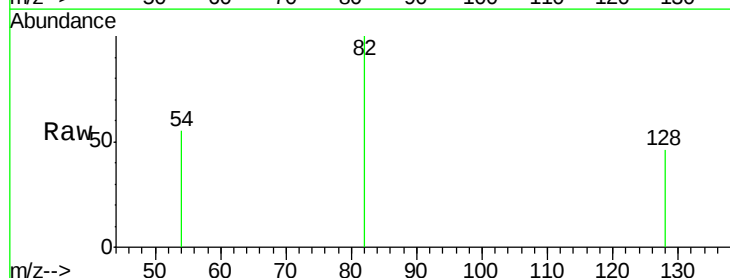


Abundance Ion 136.00 (135.70 to 136.70): BE088240.D (-1653) (-)
Ion 137.00 (136.70 to 137.70): BE088240.D (-1653) (-)
Ion 54.00 (53.70 to 54.70): BE088240.D (-1653) (-)

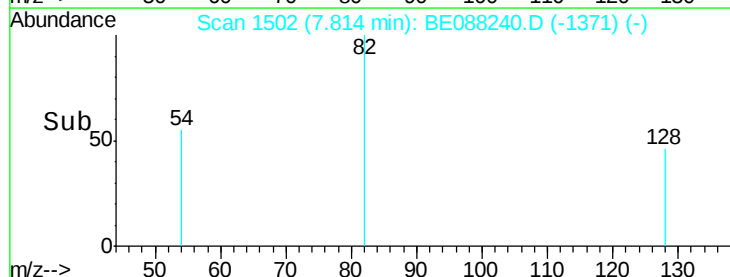
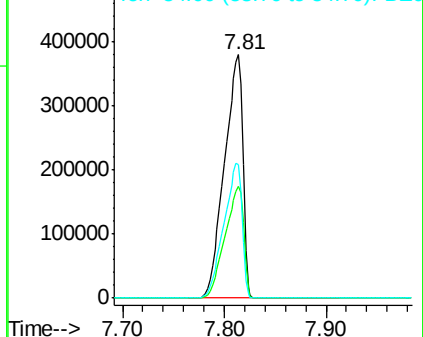


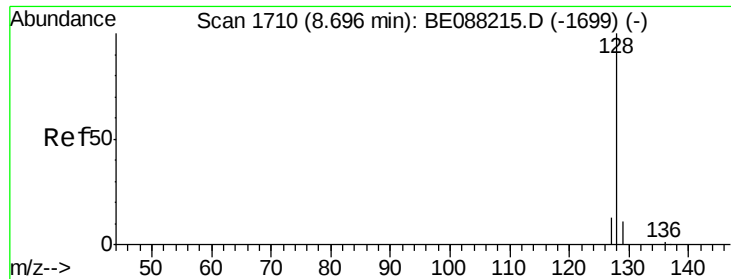
#4
Nitrobenzene-d5
Concen: 57.55 ng
RT: 7.81 min Scan# 1502
Delta R.T. 0.02 min
Lab File: BE088240.D
Acq: 25 Oct 2014 9:28

Tgt Ion: 82 Resp: 471980
Ion Ratio Lower Upper
82 100
128 45.8 36.2 54.2
54 54.8 41.8 62.8



Abundance Ion 82.00 (81.70 to 82.70): BE088240.D (-1371) (-)
Ion 128.00 (127.70 to 128.70): BE088240.D (-1371) (-)
Ion 54.00 (53.70 to 54.70): BE088240.D (-1371) (-)





#5

Naphthalene

Concen: 0.02 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014

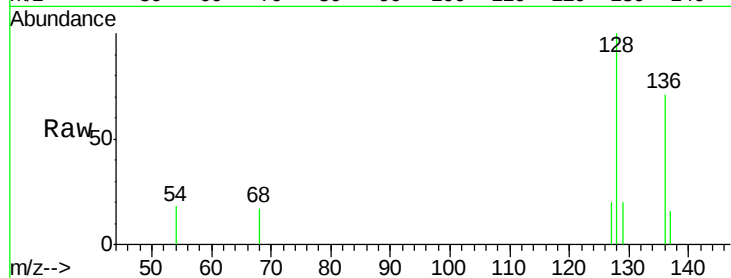
Tgt Ion:128 Resp: 447

Ion Ratio Lower Upper

128 100

129 20.1 8.6 12.8#

127 19.9 10.4 15.6#



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E

8.70

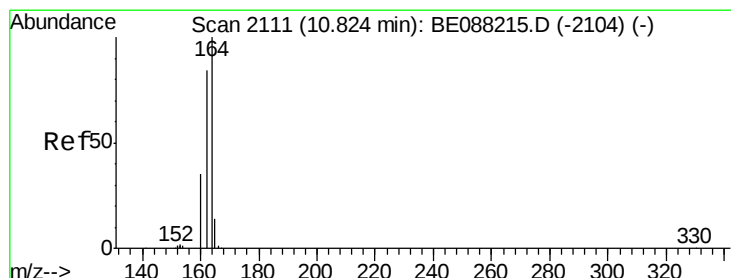
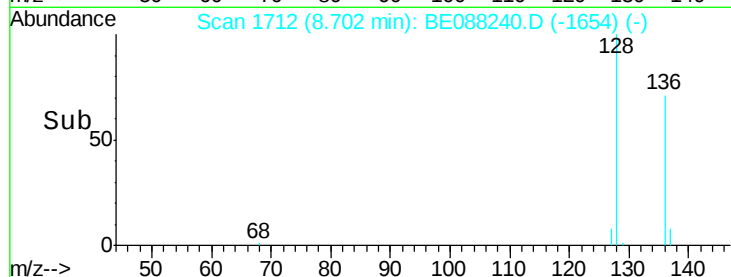
400

200

0

8.65 8.70 8.75

Time-->



#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.83 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

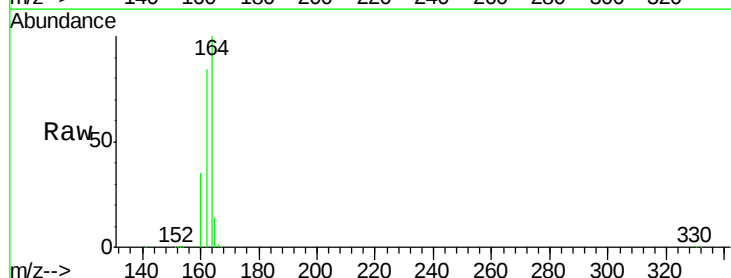
Tgt Ion:164 Resp: 56733

Ion Ratio Lower Upper

164 100

162 84.2 67.4 101.0

160 34.8 27.7 41.5



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

10.83

60000

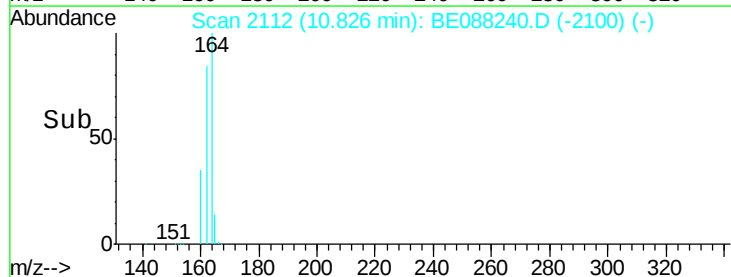
40000

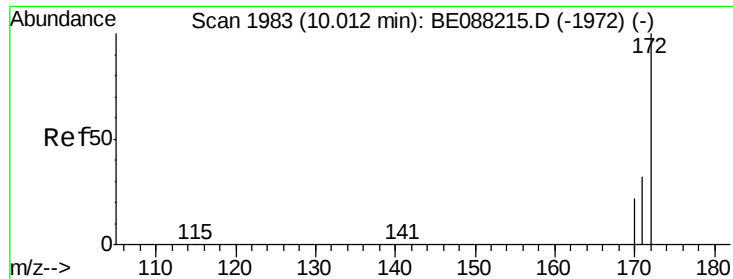
20000

0

10.70 10.80 10.90 11.00

Time-->





#8

2-Fluorobiphenyl

Concen: 34.58 ng

RT: 10.02 min Scan# 1986

Delta R.T. 0.01 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014

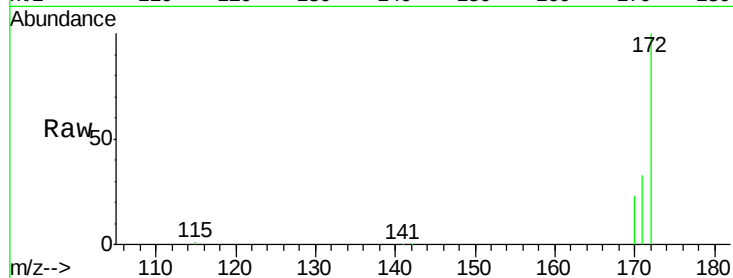
Tgt Ion:172 Resp: 547119

Ion Ratio Lower Upper

172 100

171 33.3 25.8 38.6

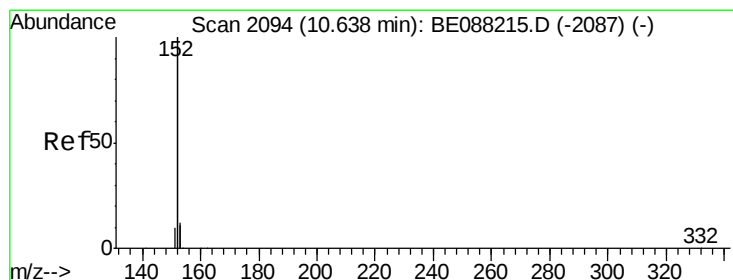
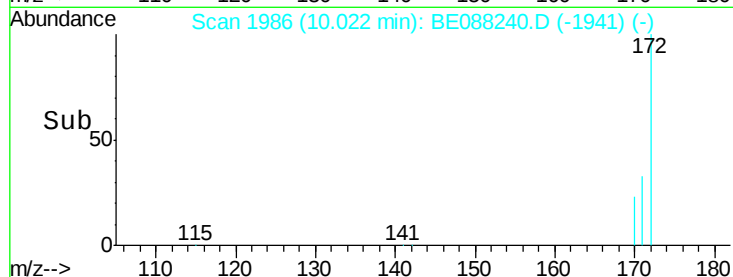
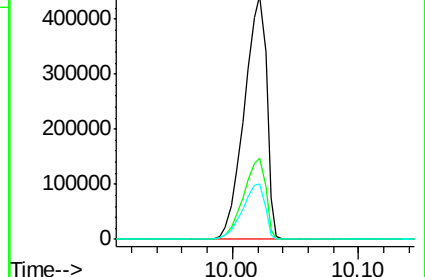
170 22.8 17.4 26.0



Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E



#9

Acenaphthylene

Concen: 0.07 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

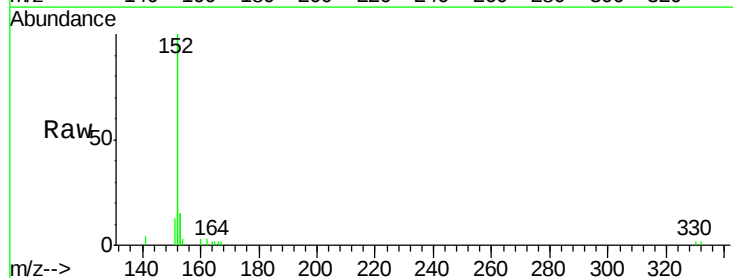
Tgt Ion:152 Resp: 5540

Ion Ratio Lower Upper

152 100

151 9.2 3.7 5.5#

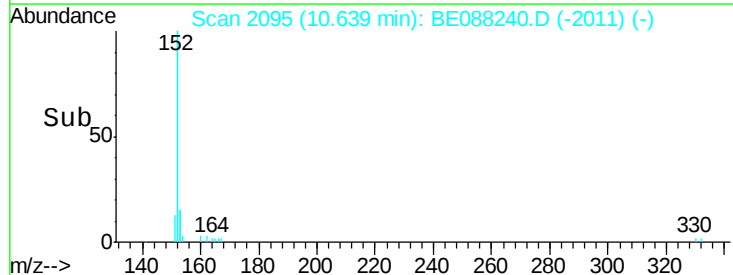
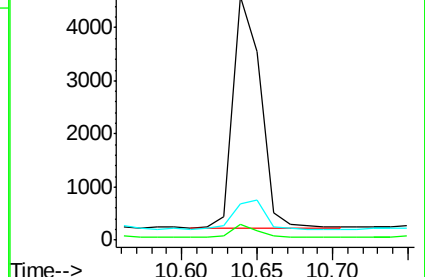
153 14.0 10.3 15.5

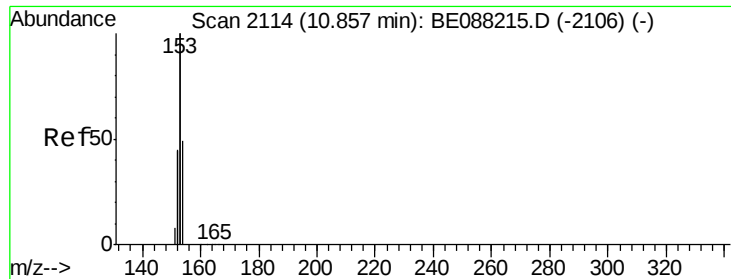


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#10

Acenaphthene

Concen: 0.09 ng

RT: 10.86 min Scan# 2115

Delta R.T. 0.00 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014

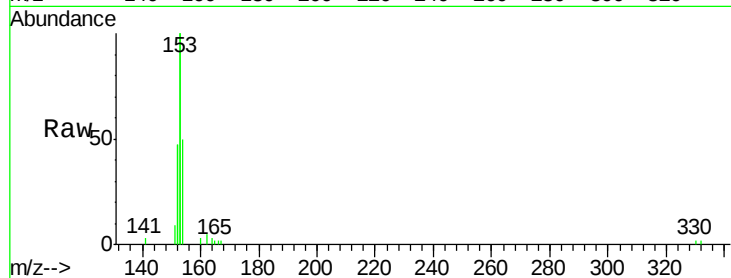
Tgt Ion:154 Resp: 1226

Ion Ratio Lower Upper

154 100

153 424.8 326.0 489.0

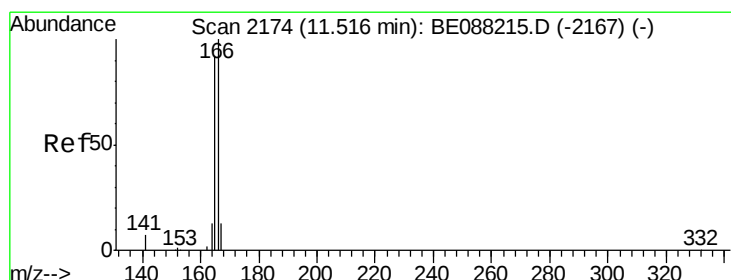
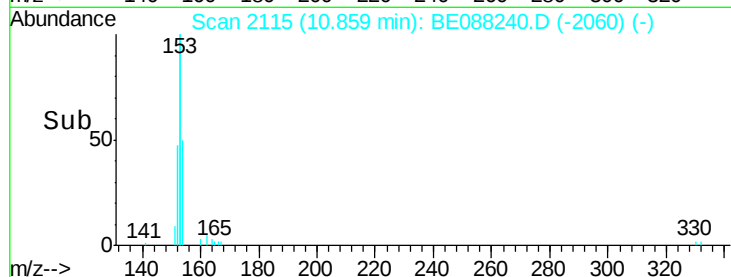
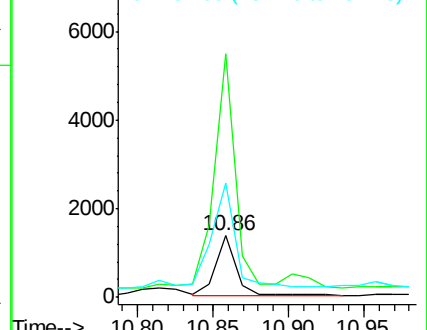
152 223.2 155.6 233.4



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



#11

Fluorene

Concen: 0.12 ng

RT: 11.52 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

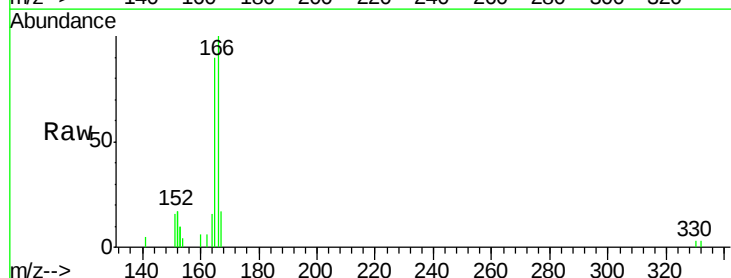
Tgt Ion:166 Resp: 1614

Ion Ratio Lower Upper

166 100

165 83.8 71.8 107.6

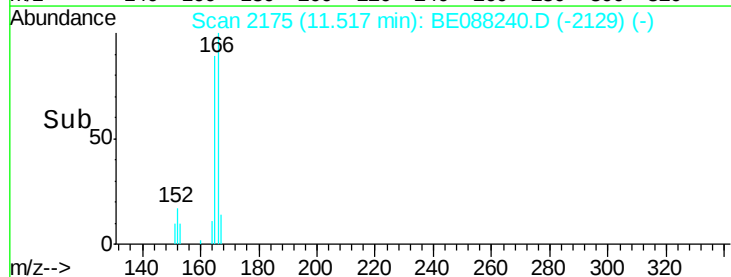
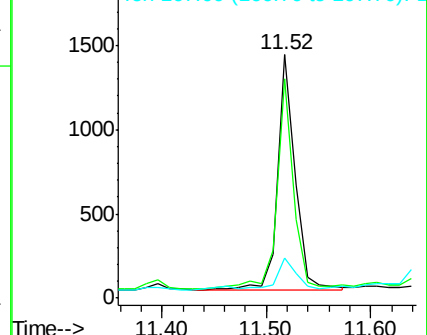
167 14.2 10.7 16.1

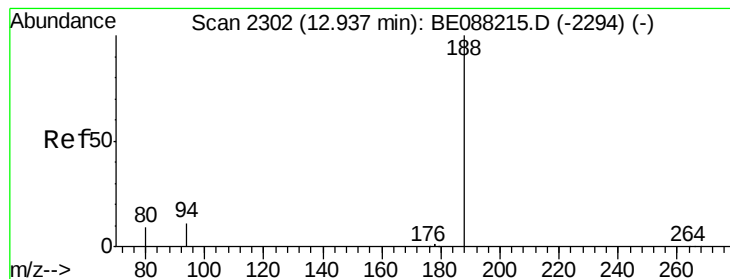


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E





#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.94 min Scan# 2303

Delta R.T. 0.00 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014

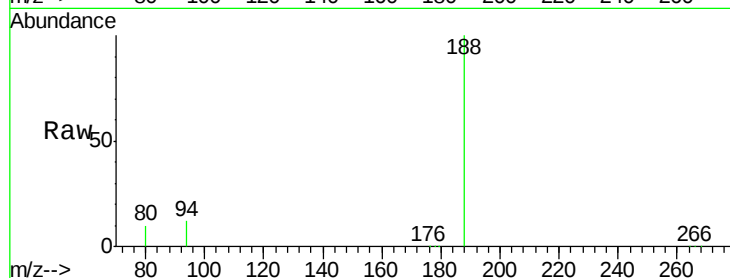
Tgt Ion:188 Resp: 112242

Ion Ratio Lower Upper

188 100

94 11.7 8.5 12.7

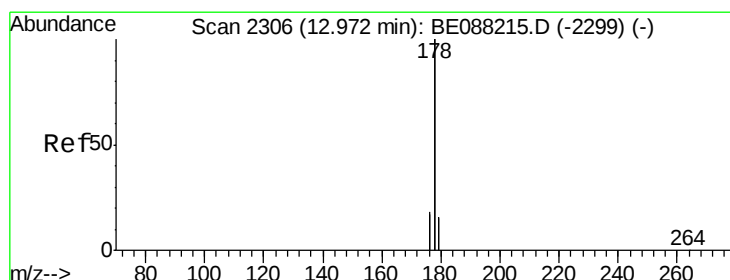
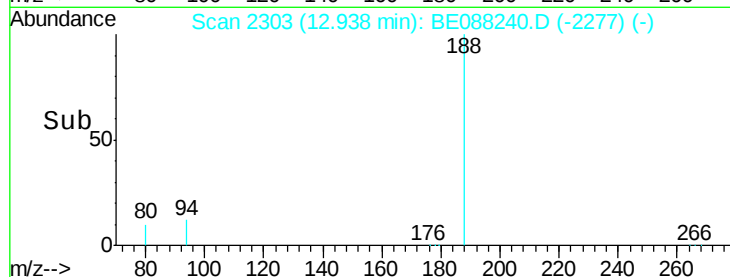
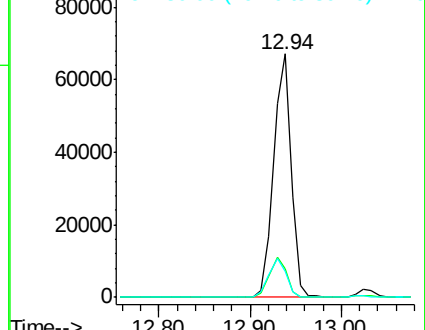
80 10.4 7.4 11.0



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



#13

Phenanthrene

Concen: 1.40 ng

RT: 12.97 min Scan# 2307

Delta R.T. 0.00 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

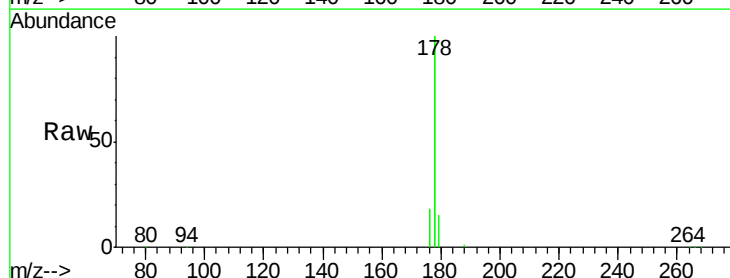
Tgt Ion:178 Resp: 151945

Ion Ratio Lower Upper

178 100

176 14.9 14.0 21.0

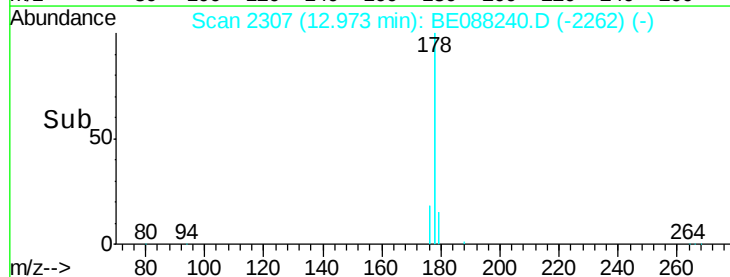
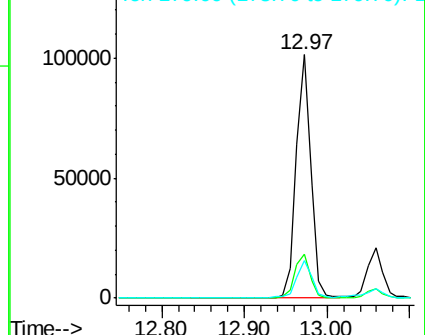
179 17.3 11.8 17.6

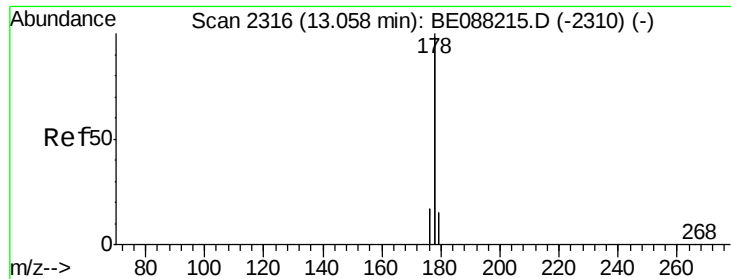


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#14

Anthracene

Concen: 1.90 ng

RT: 12.97 min Scan# 2307

Delta R.T. -0.09 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014

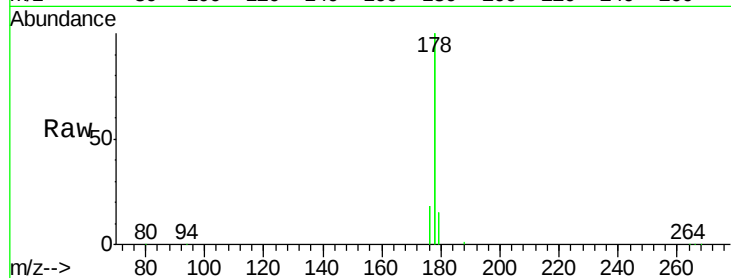
Tgt Ion:178 Resp: 151945

Ion Ratio Lower Upper

178 100

176 14.9 14.7 22.1

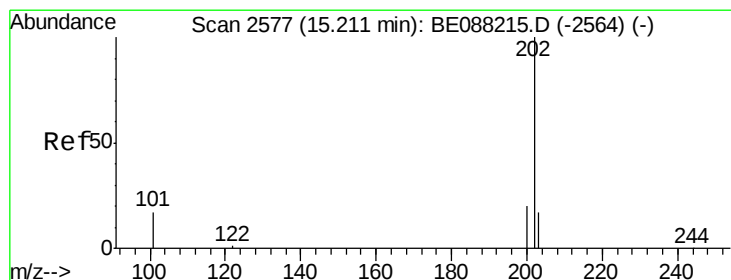
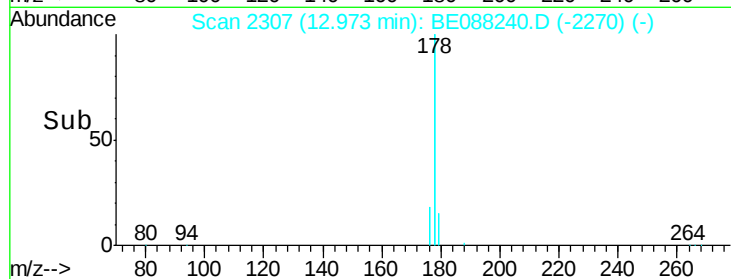
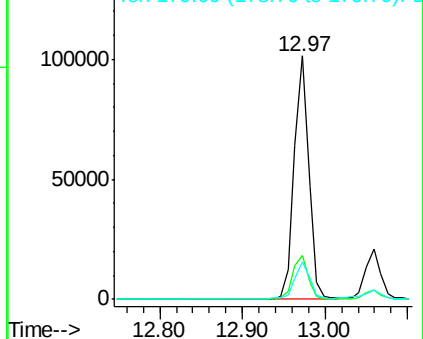
179 17.3 12.3 18.5



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



#15

Fluoranthene

Concen: 2.96 ng

RT: 15.21 min Scan# 2578

Delta R.T. -0.00 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

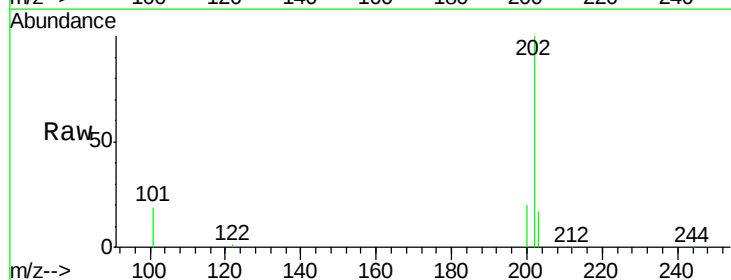
Tgt Ion:202 Resp: 48543

Ion Ratio Lower Upper

202 100

101 18.3 14.4 21.6

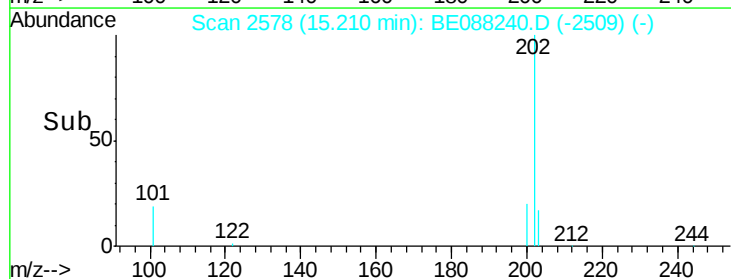
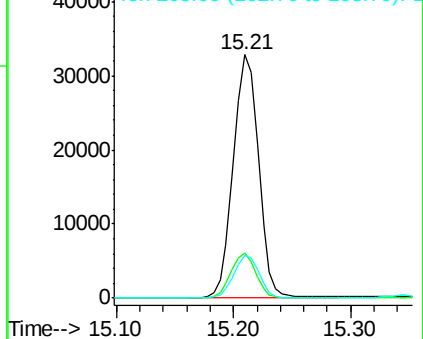
203 17.3 13.4 20.2

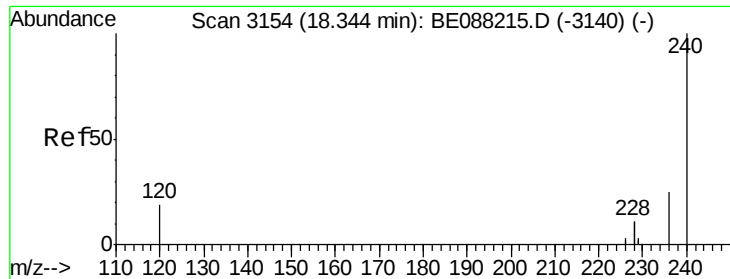


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E





#16

Chrysene-d12

Concen: 5.00 ng

RT: 18.34 min Scan# 3155

Delta R.T. 0.00 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014

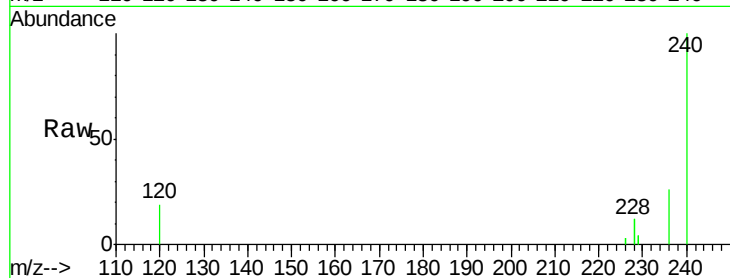
Tgt Ion:240 Resp: 52216

Ion Ratio Lower Upper

240 100

120 19.3 15.1 22.7

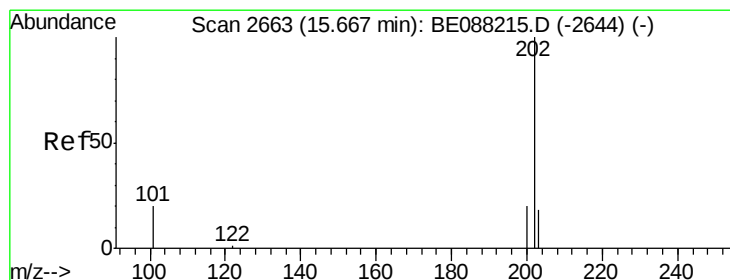
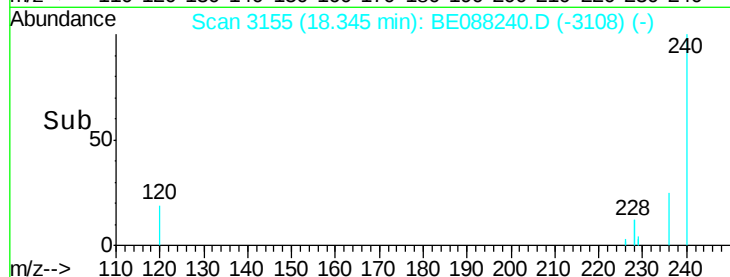
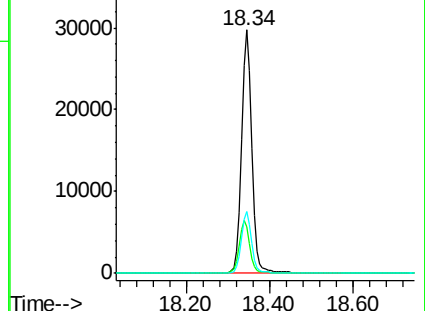
236 25.6 20.1 30.1



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



#17

Pyrene

Concen: 3.35 ng

RT: 15.21 min Scan# 2578

Delta R.T. -0.46 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

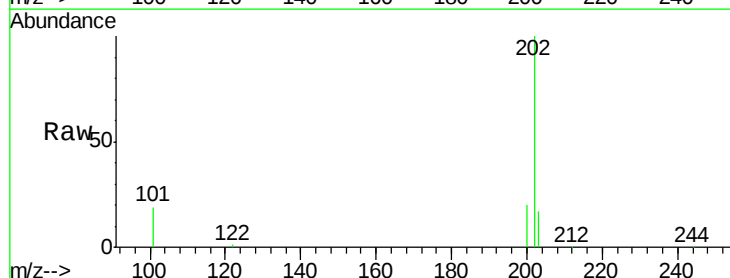
Tgt Ion:202 Resp: 47968

Ion Ratio Lower Upper

202 100

200 20.1 16.2 24.2

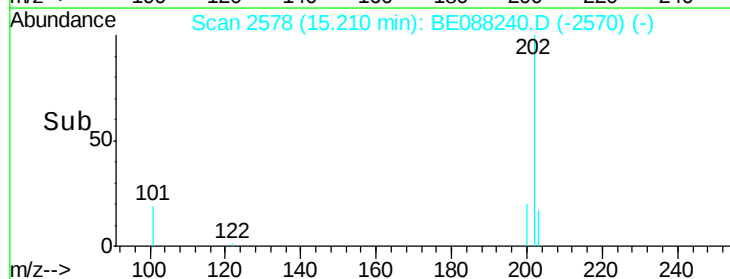
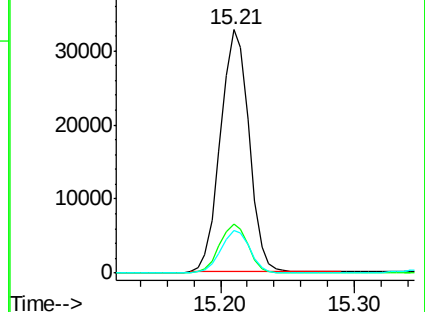
203 17.4 13.8 20.8

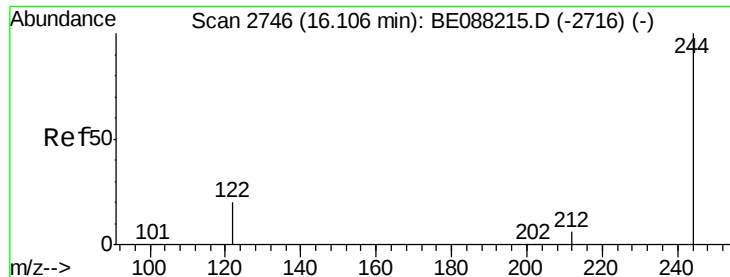


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Terphenyl-d14

Concen: 52.01 ng

RT: 16.13 min Scan# 2751

Delta R.T. 0.02 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014

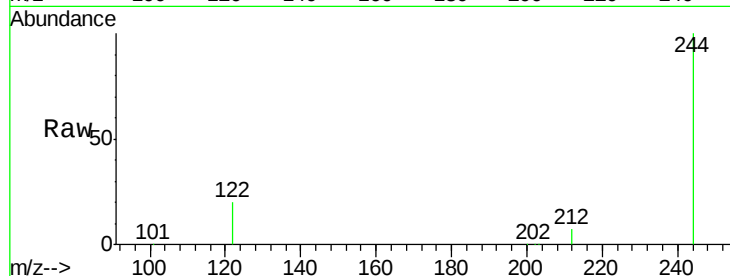
Tgt Ion:244 Resp: 444751

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.2

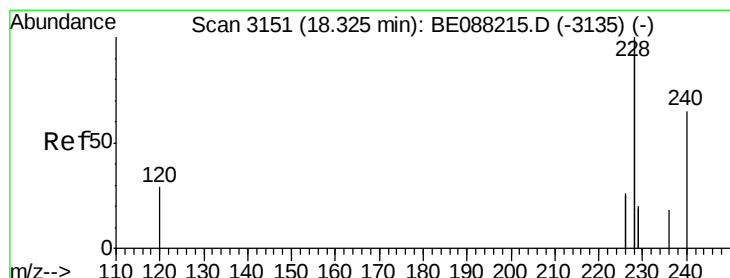
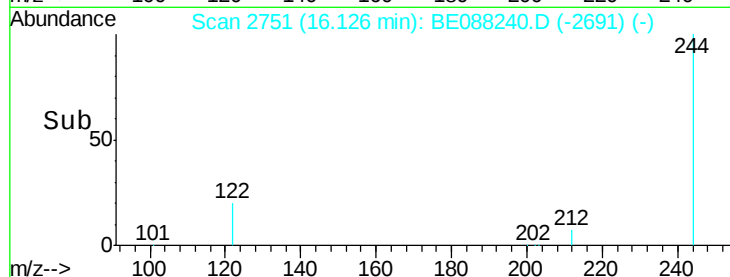
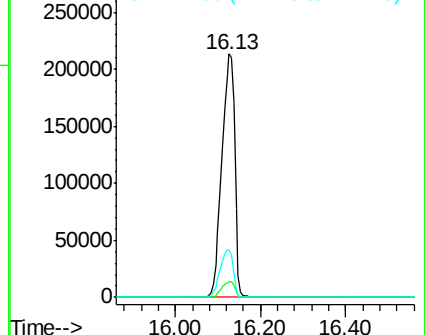
122 19.7 16.7 25.1



Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E



#19

Benzo(a)anthracene

Concen: 1.55 ng

RT: 18.33 min Scan# 3152

Delta R.T. 0.00 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

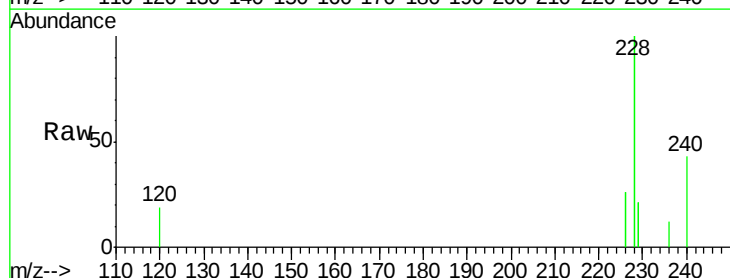
Tgt Ion:228 Resp: 63779

Ion Ratio Lower Upper

228 100

226 25.5 20.5 30.7

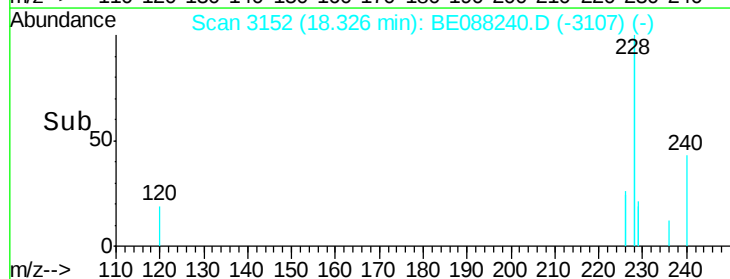
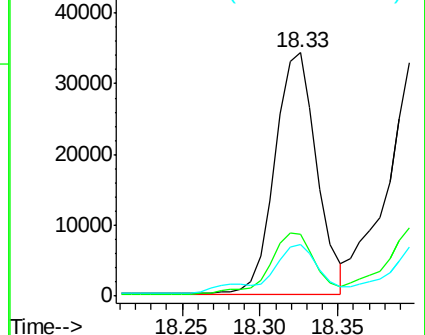
229 21.0 16.1 24.1

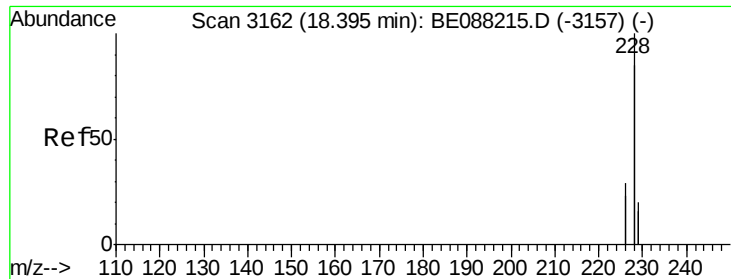


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 1.47 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014

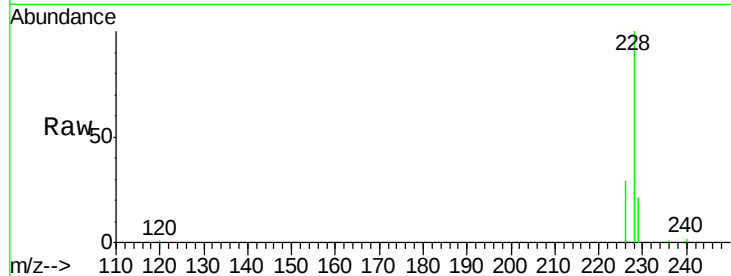
Tgt Ion:228 Resp: 68404

Ion Ratio Lower Upper

228 100

226 29.1 23.3 34.9

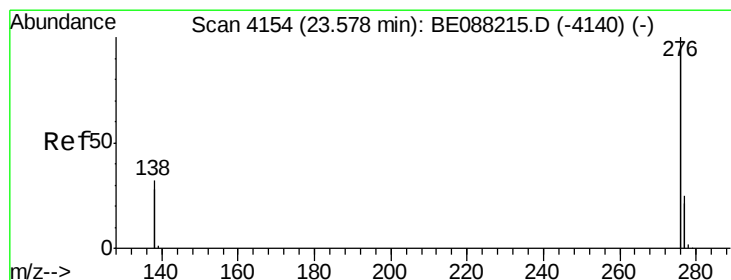
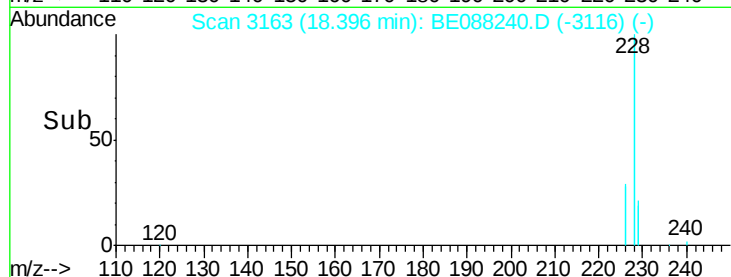
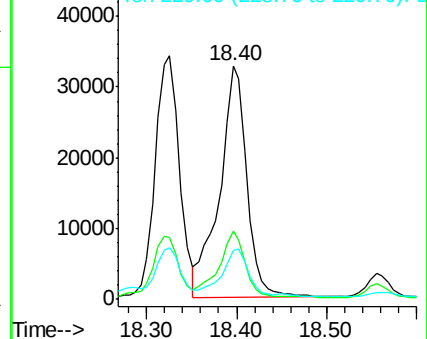
229 20.8 15.6 23.4



Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#21

Indeno(1,2,3-cd)pyrene

Concen: 0.91 ng

RT: 23.57 min Scan# 4154

Delta R.T. -0.01 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

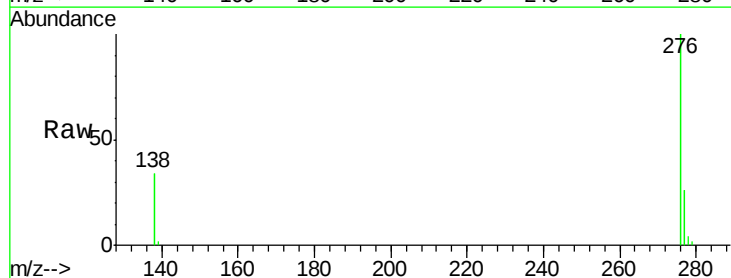
Tgt Ion:276 Resp: 34171

Ion Ratio Lower Upper

276 100

138 27.3 13.9 20.9#

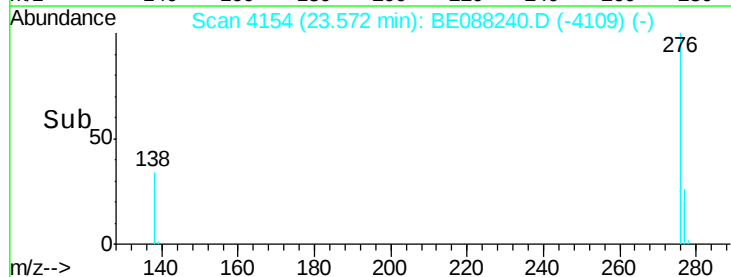
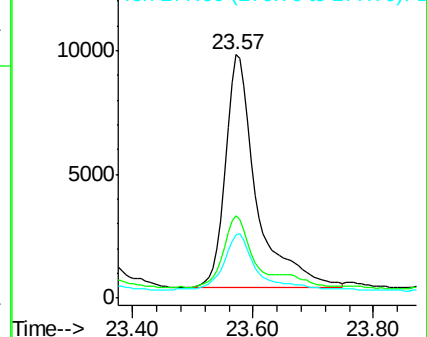
277 25.0 10.7 16.1#

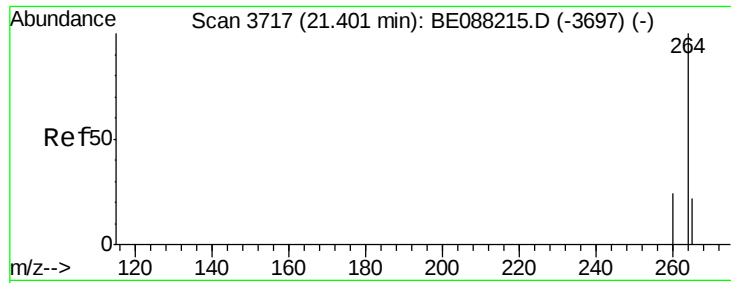


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

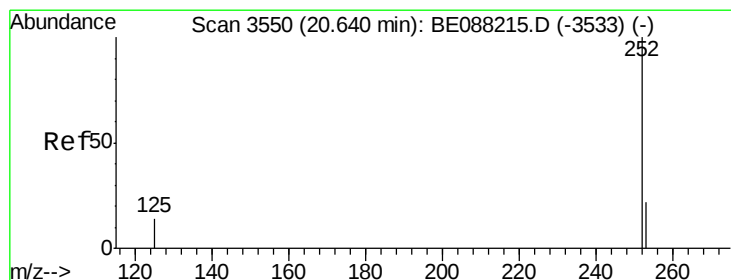
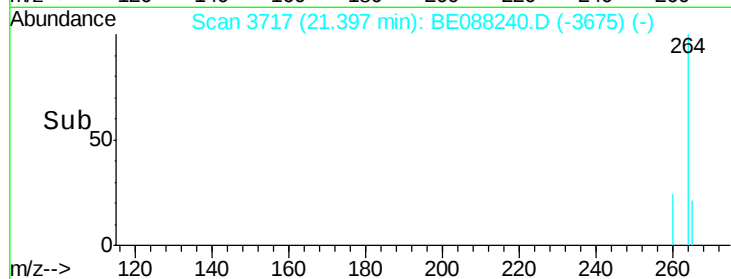
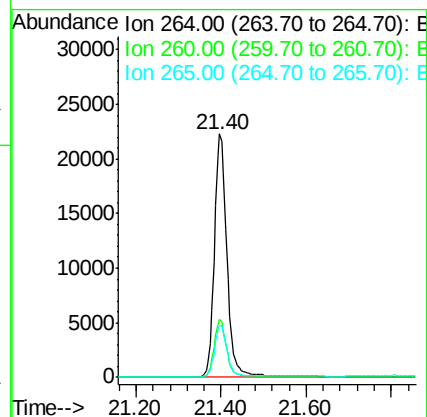
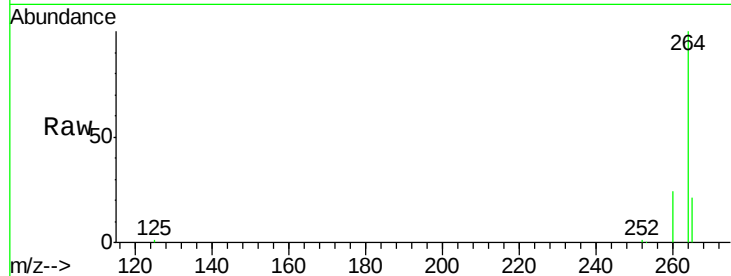




#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.40 min Scan# 3717
 Delta R.T. -0.00 min
 Lab File: BE088240.D
 Acq: 25 Oct 2014 9:28

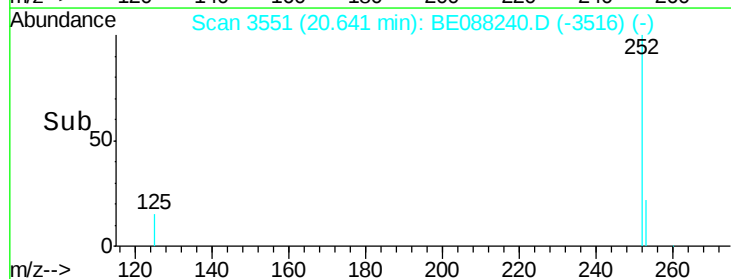
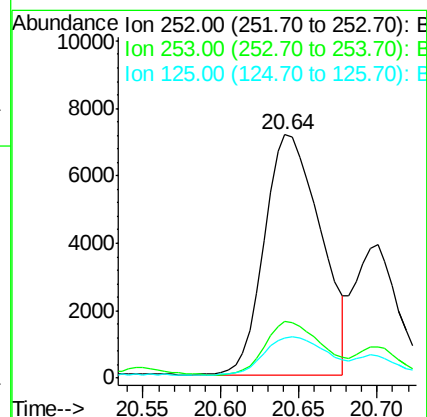
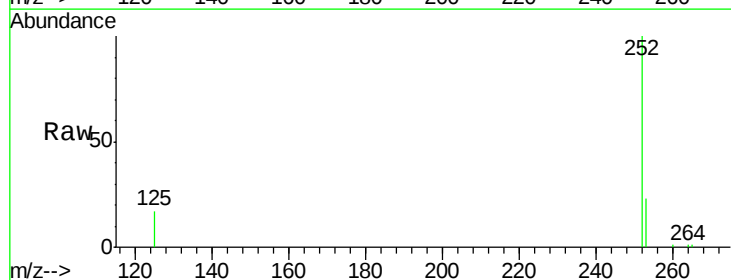
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS33-1014

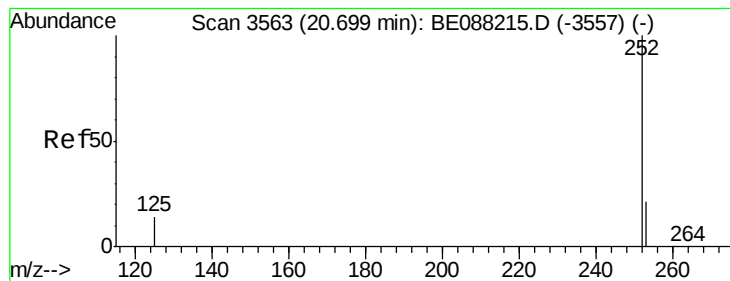
Tgt Ion: 264 Resp: 44494
 Ion Ratio Lower Upper
 264 100
 260 23.7 19.0 28.4
 265 21.3 17.4 26.2



#23
 Benzo(b)fluoranthene
 Concen: 2.00 ng
 RT: 20.64 min Scan# 3551
 Delta R.T. 0.00 min
 Lab File: BE088240.D
 Acq: 25 Oct 2014 9:28

Tgt Ion: 252 Resp: 17792
 Ion Ratio Lower Upper
 252 100
 253 23.1 17.9 26.9
 125 16.7 12.2 18.2





#24

Benzo(k)fluoranthene

Concen: 0.63 ng

RT: 20.70 min Scan# 3564

Delta R.T. 0.00 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

Instrument :

BNA_E

ClientSampleId :

YS19-SS33-1014

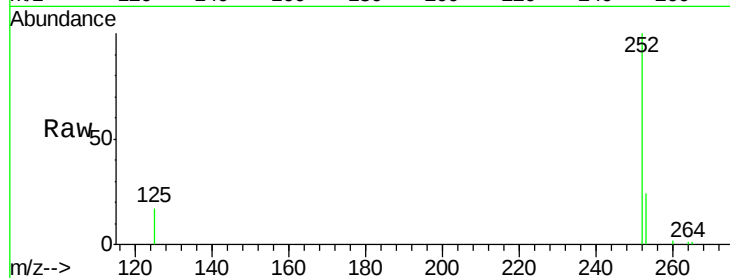
Tgt Ion: 252 Resp: 7274

Ion Ratio Lower Upper

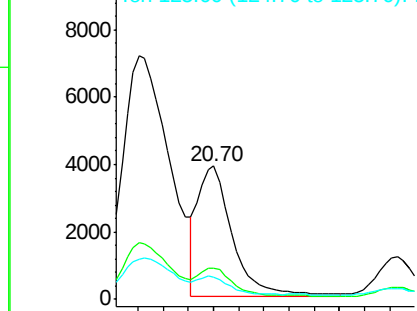
252 100

253 23.8 17.6 26.4

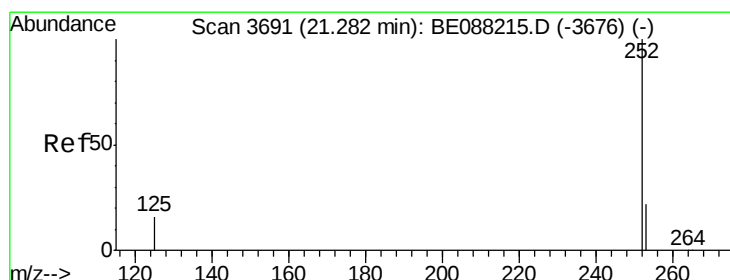
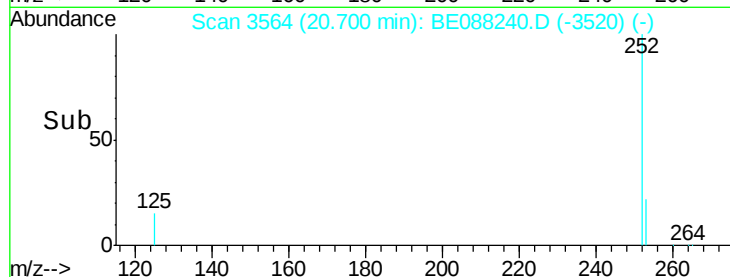
125 16.7 12.1 18.1



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



Time-->



#25

Benzo(a)pyrene

Concen: 1.36 ng

RT: 21.28 min Scan# 3691

Delta R.T. -0.00 min

Lab File: BE088240.D

Acq: 25 Oct 2014 9:28

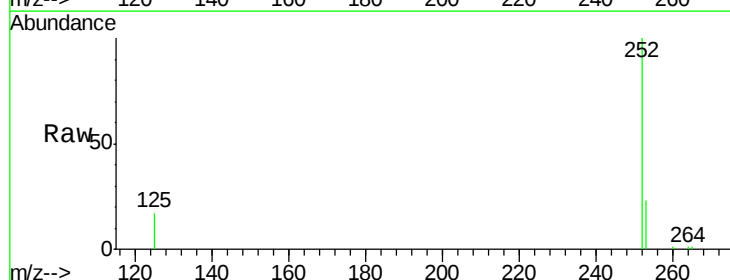
Tgt Ion: 252 Resp: 11484

Ion Ratio Lower Upper

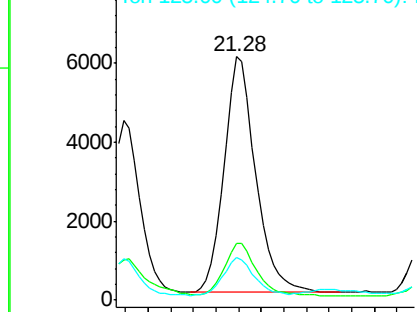
252 100

253 23.3 17.8 26.8

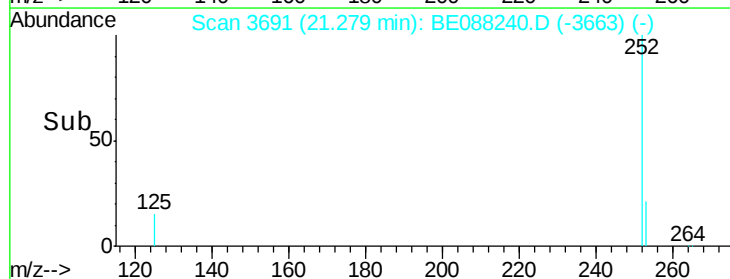
125 17.4 13.5 20.3

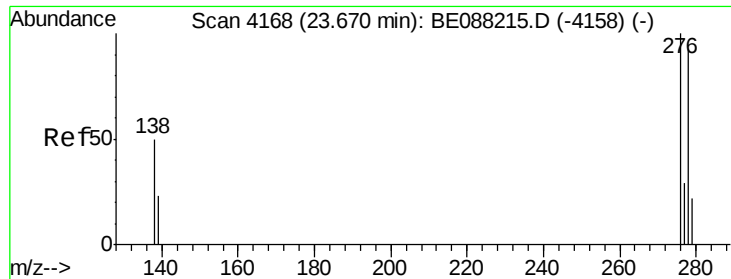


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->

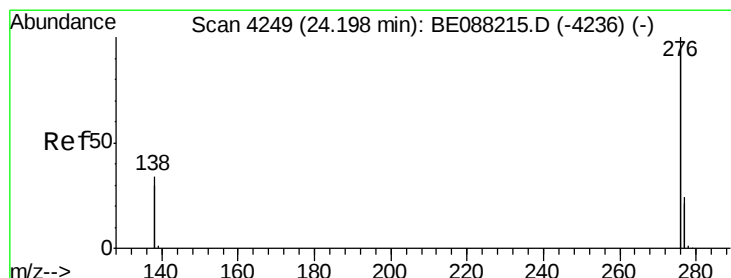
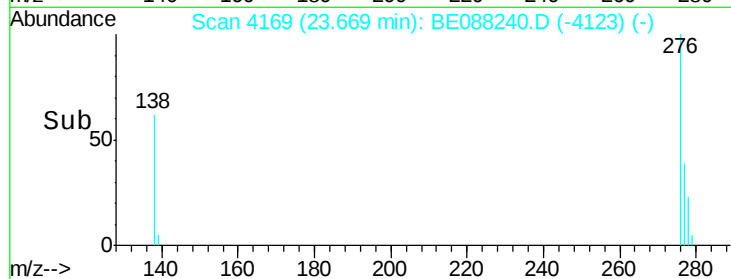
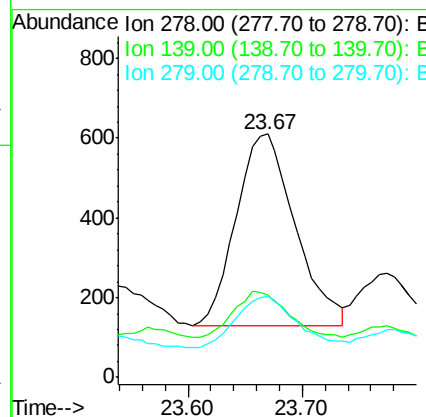
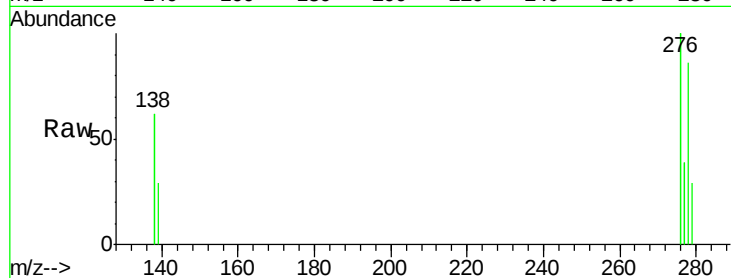




#26
Dibenzo(a,h)anthracene
Concen: 0.39 ng
RT: 23.67 min Scan# 4169
Delta R.T. 0.00 min
Lab File: BE088240.D
Acq: 25 Oct 2014 9:28

Instrument :
BNA_E
ClientSampleId :
YS19-SS33-1014

Tgt Ion: 278 Resp: 1728
Ion Ratio Lower Upper
278 100
139 33.7 22.1 33.1#
279 33.4 20.2 30.2#



#27
Benzo(g,h,i)perylene
Concen: 0.91 ng
RT: 24.20 min Scan# 4250
Delta R.T. -0.00 min
Lab File: BE088240.D
Acq: 25 Oct 2014 9:28

Tgt Ion: 276 Resp: 32614
Ion Ratio Lower Upper
276 100
277 25.7 19.4 29.2
138 35.2 27.3 40.9

