

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088237.D
 Acq On : 25 Oct 2014 7:50
 Operator : TP/JJ
 Sample : F4368-04
 Misc :
 ALS Vial : 29 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB33-1014

Quant Time: Oct 27 13:48:15 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	7.11	152	24492	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	97352	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	52138	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	104569	5.00	ng	0.00
16) Chrysene-d12	18.34	240	50932	5.00	ng	0.00
22) Perylene-d12	21.40	264	41477	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.81	82	422936	57.47	ng	0.01
8) 2-Fluorobiphenyl	10.02	172	485412	33.39	ng	0.00
18) Terphenyl-d14	16.13	244	411396	49.32	ng	0.02

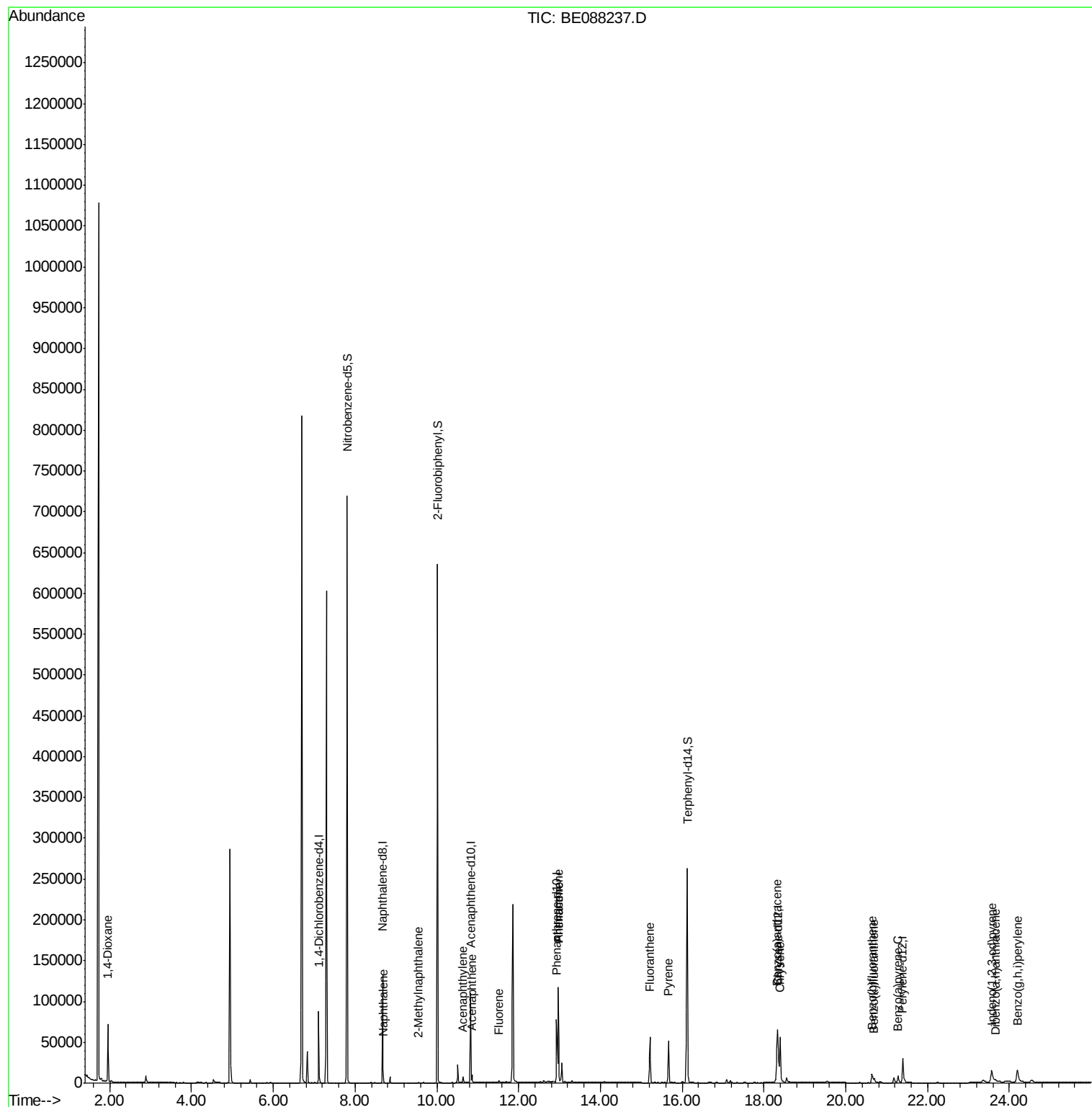
Target Compounds				Qvalue		
2) 1,4-Dioxane	1.96	88	2335	0.68	ng	# 1
5) Naphthalene	8.70	128	727	0.04	ng	# 86
6) 2-Methylnaphthalene	9.55	142	287	0.02	ng	# 90
9) Acenaphthylene	10.64	152	8010	0.10	ng	99
10) Acenaphthene	10.86	154	1152	0.09	ng	87
11) Fluorene	11.52	166	1360	0.11	ng	98
13) Phenanthrene	12.97	178	138100	1.37	ng	94
14) Anthracene	12.97	178	138100	1.85	ng	94
15) Fluoranthene	15.21	202	53601	3.50	ng	99
17) Pyrene	15.67	202	46839	3.35	ng	97
19) Benzo(a)anthracene	18.32	228	64944	1.62	ng	98
20) Chrysene	18.40	228	77867	1.71	ng	98
21) Indeno(1,2,3-cd)pyrene	23.57	276	36308	0.97	ng	# 71
23) Benzo(b)fluoranthene	20.64	252	19694	2.34	ng	98
24) Benzo(k)fluoranthene	20.70	252	8447	0.79	ng	96
25) Benzo(a)pyrene	21.28	252	11659	1.47	ng	98
26) Dibenzo(a,h)anthracene	23.66	278	1577	0.39	ng	# 84
27) Benzo(g,h,i)perylene	24.20	276	34103	1.03	ng	98

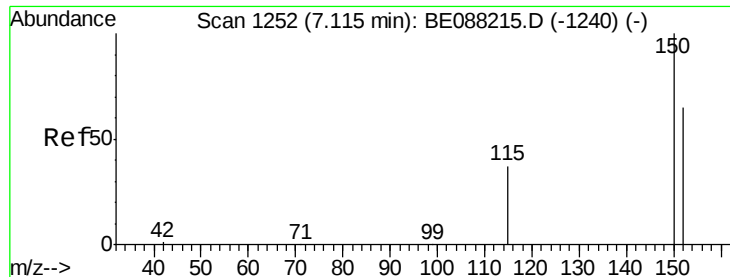
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.11 min Scan# 1252

Delta R.T. -0.00 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB33-1014

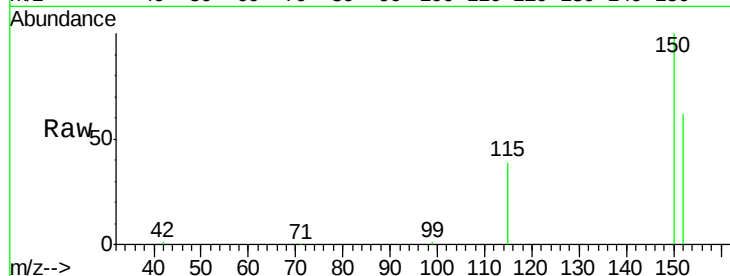
Tgt Ion:152 Resp: 24492

Ion Ratio Lower Upper

152 100

150 161.6 123.2 184.8

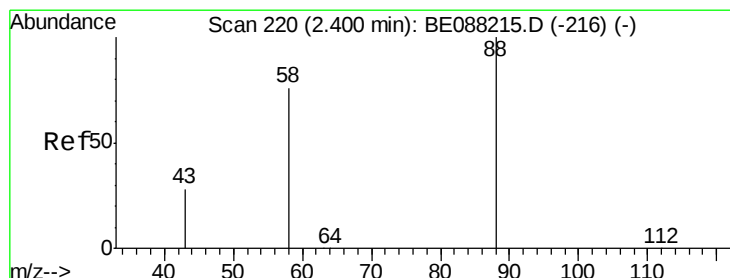
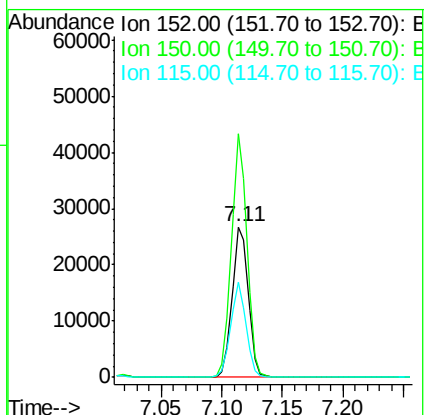
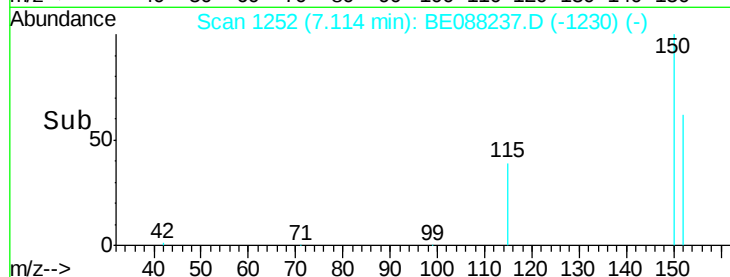
115 63.0 45.3 67.9



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: 0.68 ng

RT: 1.96 min Scan# 124

Delta R.T. -0.44 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

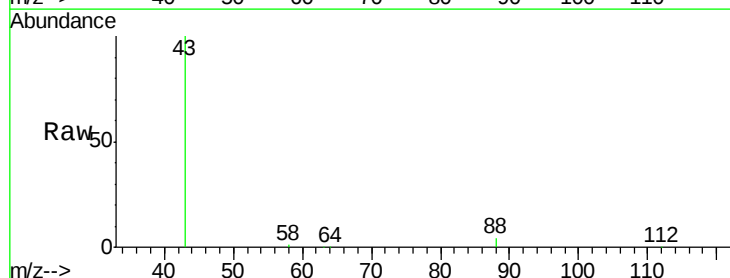
Tgt Ion: 88 Resp: 2335

Ion Ratio Lower Upper

88 100

58 26.6 59.0 88.4#

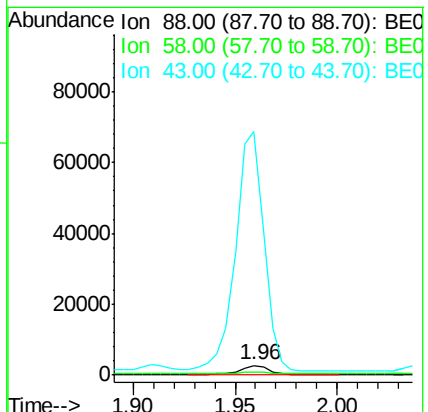
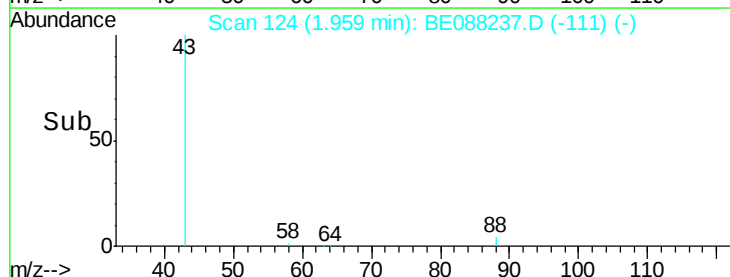
43 2814.0 21.9 32.9#

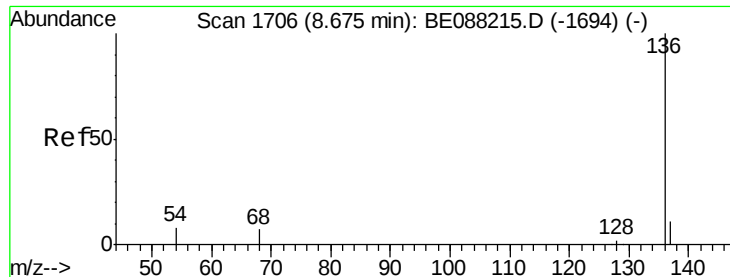


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: BE088237.D

Acq: 25 Oct 2014 7:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB33-1014

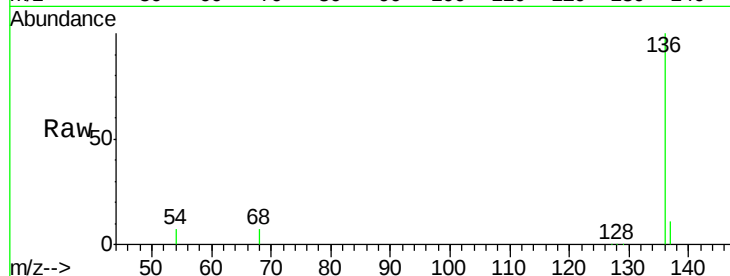
Tgt Ion: 136 Resp: 97352

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

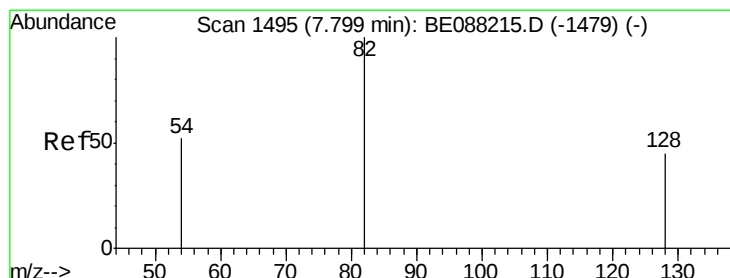
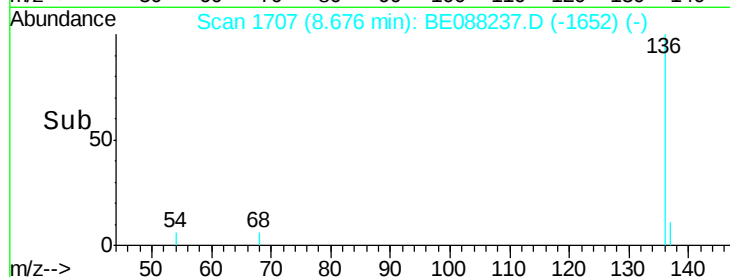
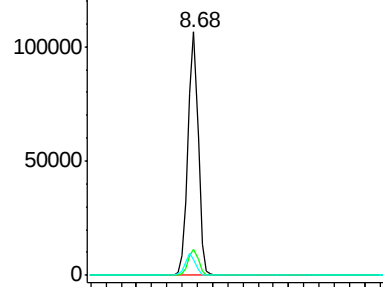
54 6.7 6.1 9.1



Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0



#4

Nitrobenzene-d5

Concen: 57.47 ng

RT: 7.81 min Scan# 1501

Delta R.T. 0.01 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

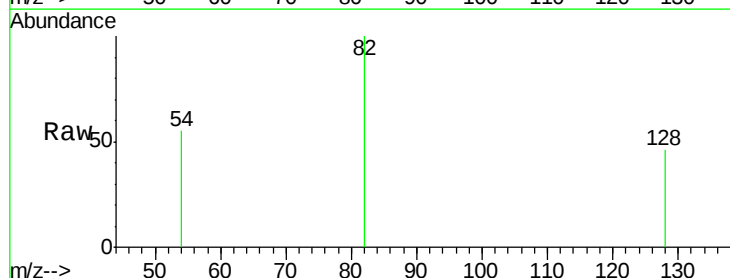
Tgt Ion: 82 Resp: 422936

Ion Ratio Lower Upper

82 100

128 45.8 36.2 54.2

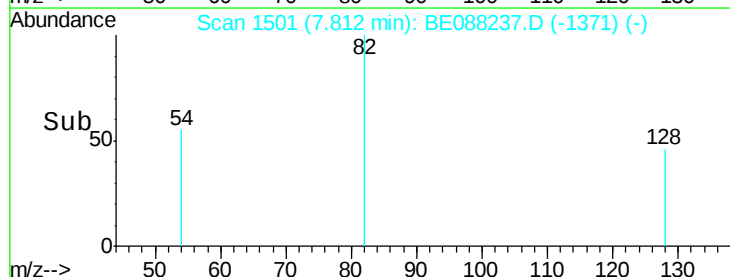
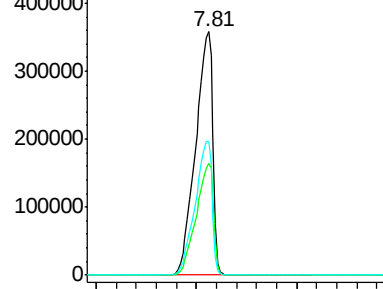
54 55.0 41.8 62.8

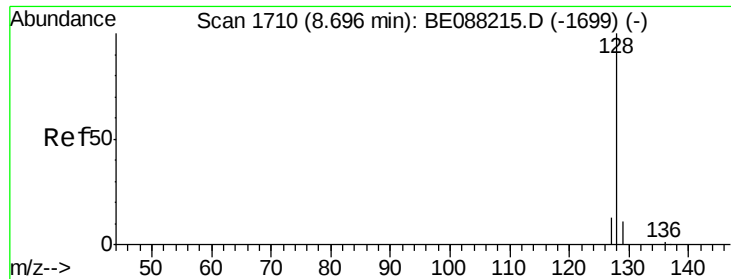


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 0.04 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.00 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB33-1014

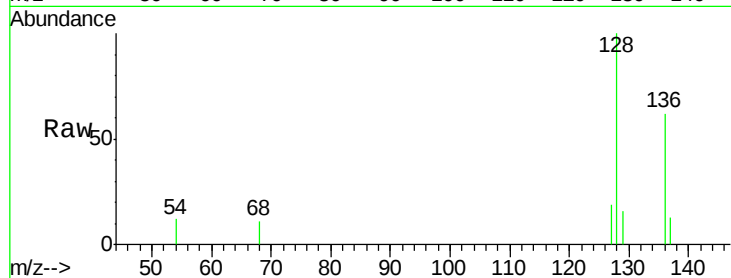
Tgt Ion:128 Resp: 727

Ion Ratio Lower Upper

128 100

129 16.1 8.6 12.8#

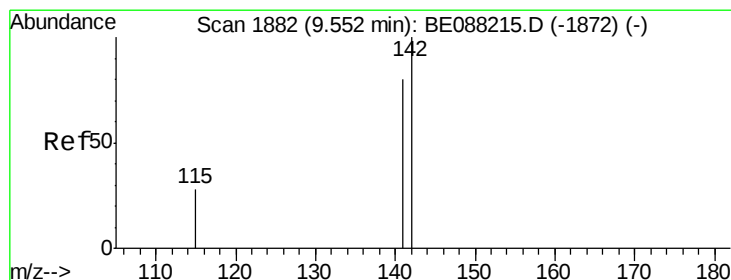
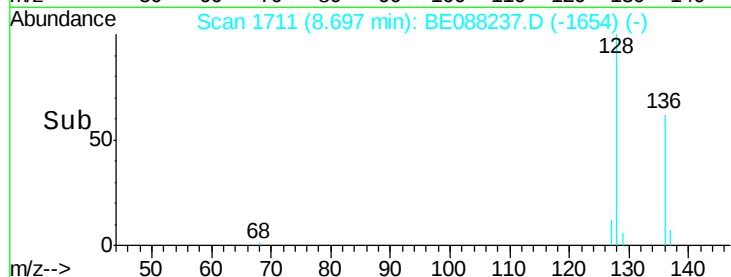
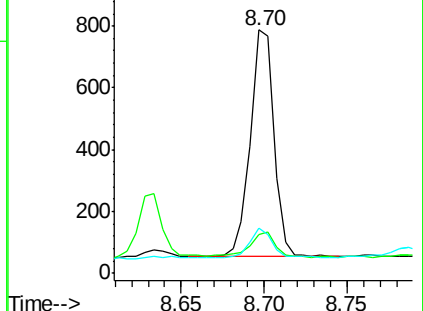
127 18.8 10.4 15.6#



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



#6

2-Methylnaphthalene

Concen: 0.02 ng

RT: 9.55 min Scan# 1883

Delta R.T. 0.00 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

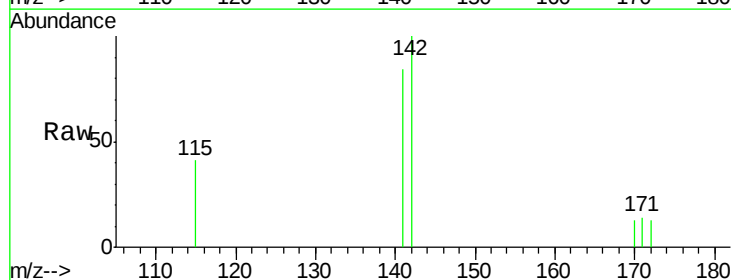
Tgt Ion:142 Resp: 287

Ion Ratio Lower Upper

142 100

141 83.8 63.7 95.5

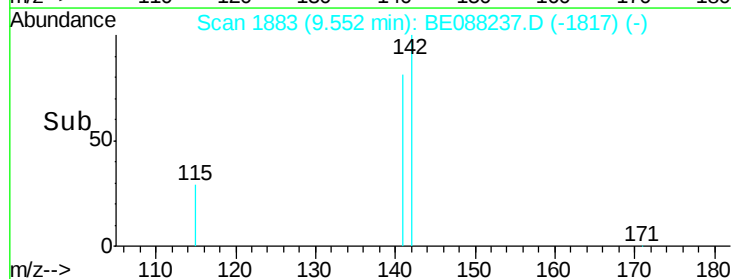
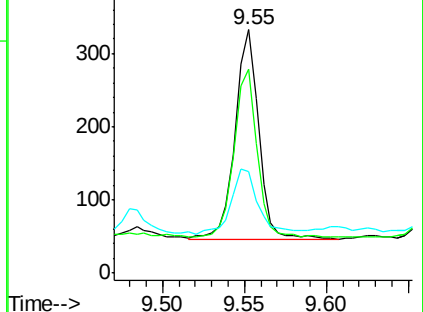
115 41.4 22.6 34.0#

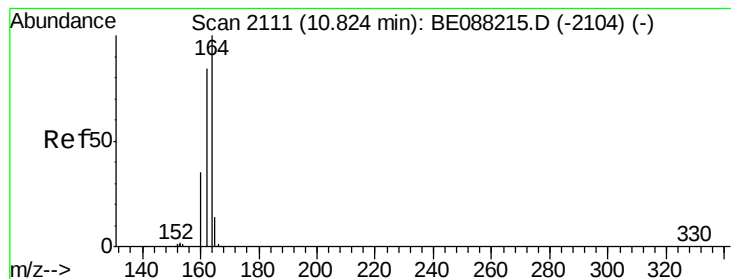


Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E

Ion 115.00 (114.70 to 115.70): E





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.82 min Scan# 2112

Delta R.T. 0.00 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB33-1014

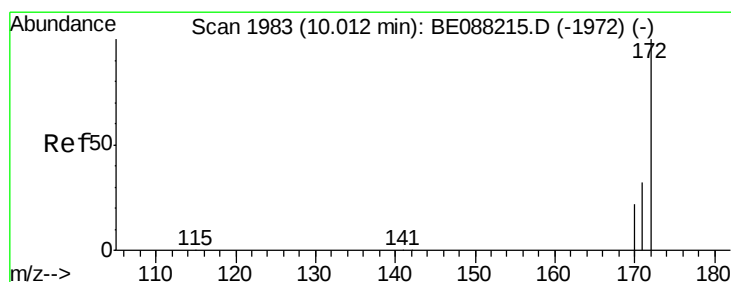
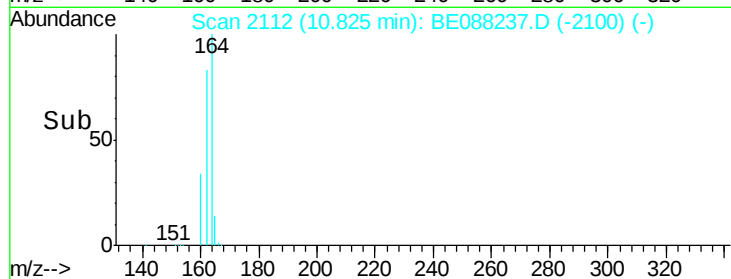
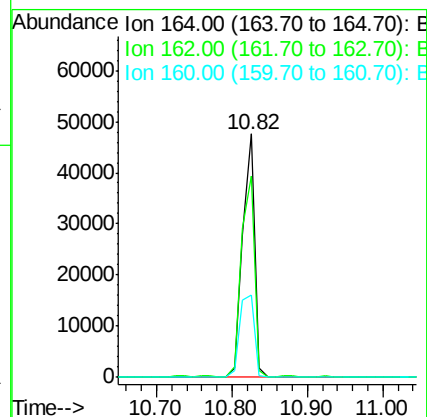
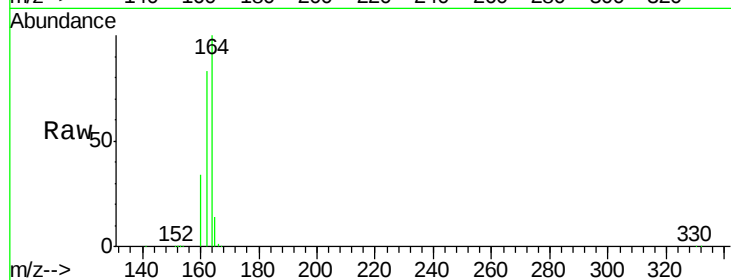
Tgt Ion:164 Resp: 52138

Ion Ratio Lower Upper

164 100

162 82.9 67.4 101.0

160 33.7 27.7 41.5



#8

2-Fluorobiphenyl

Concen: 33.39 ng

RT: 10.02 min Scan# 1986

Delta R.T. 0.01 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

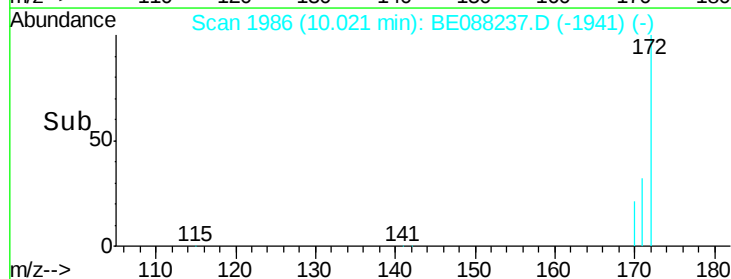
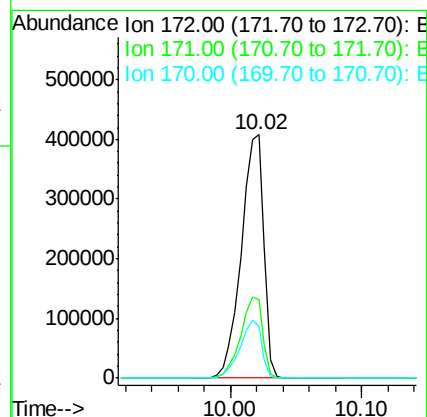
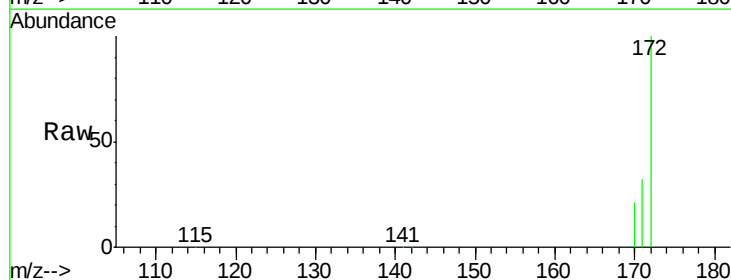
Tgt Ion:172 Resp: 485412

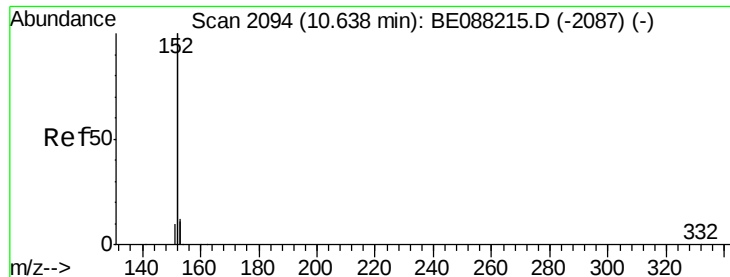
Ion Ratio Lower Upper

172 100

171 32.0 25.8 38.6

170 20.9 17.4 26.0





#9

Acenaphthylene

Concen: 0.10 ng

RT: 10.64 min Scan# 2095

Delta R.T. 0.00 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB33-1014

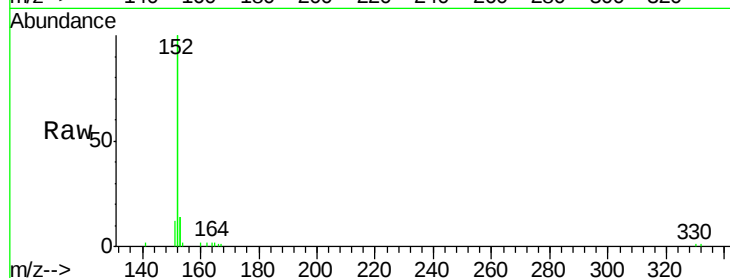
Tgt Ion:152 Resp: 8010

Ion Ratio Lower Upper

152 100

151 4.5 3.7 5.5

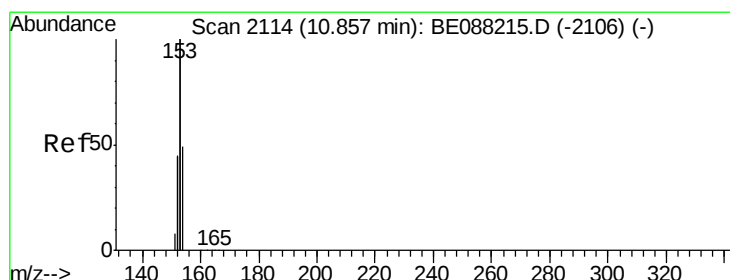
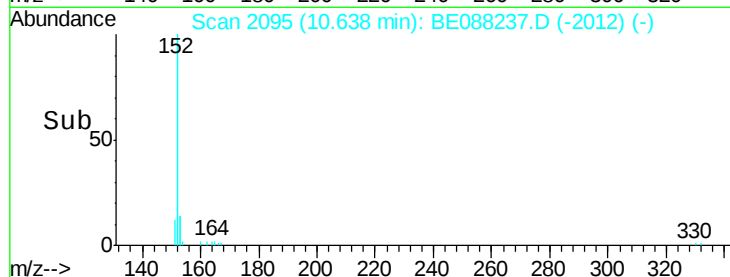
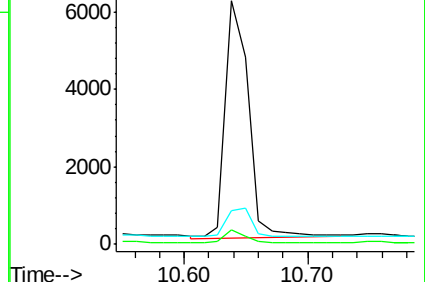
153 12.6 10.3 15.5



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: BE088237.D

Acq: 25 Oct 2014 7:50

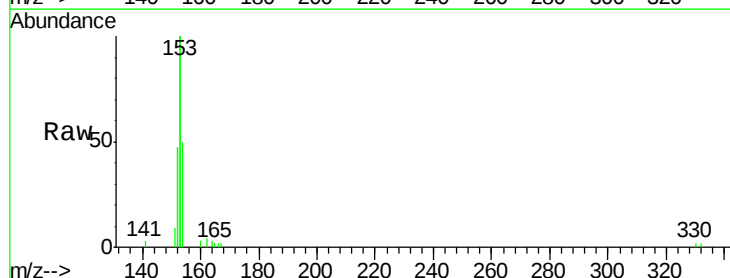
Tgt Ion:154 Resp: 1152

Ion Ratio Lower Upper

154 100

153 432.8 326.0 489.0

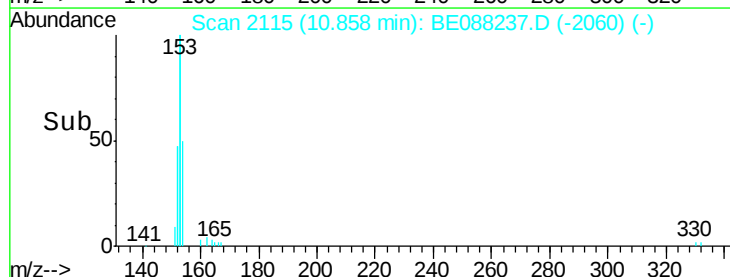
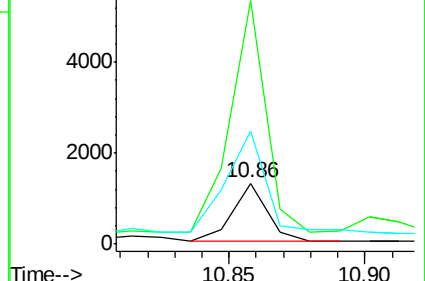
152 223.6 155.6 233.4

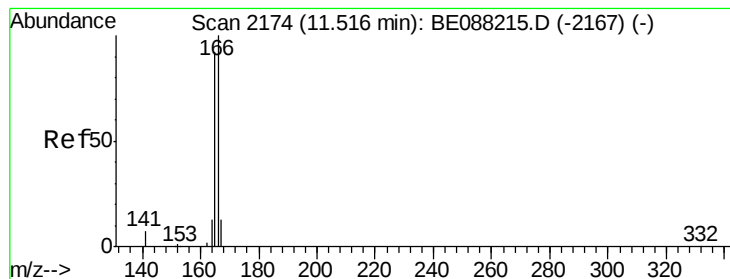


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 0.11 ng

RT: 11.52 min Scan# 2175

Delta R.T. 0.00 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

Instrument :

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ClientSampleId :

YS19-SB33-1014

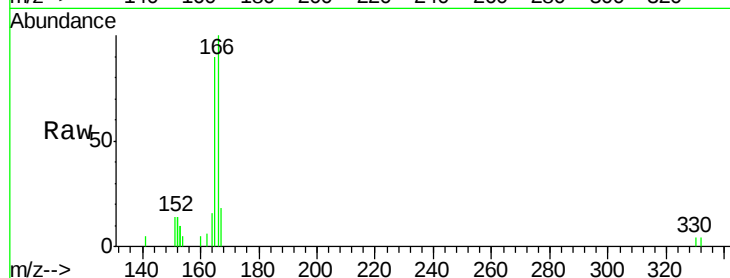
Tgt Ion:166 Resp: 1360

Ion Ratio Lower Upper

166 100

165 87.6 71.8 107.6

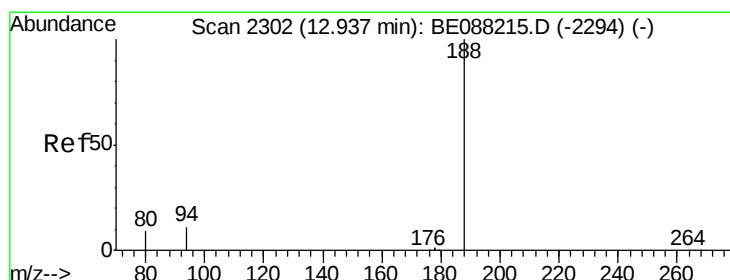
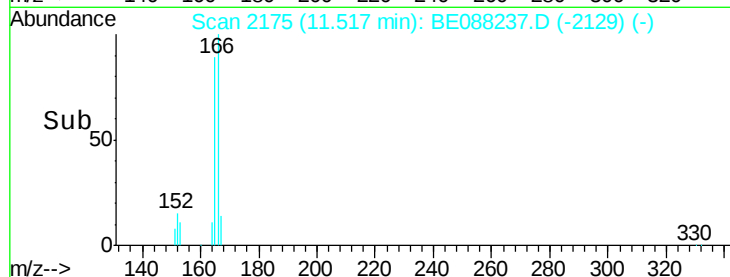
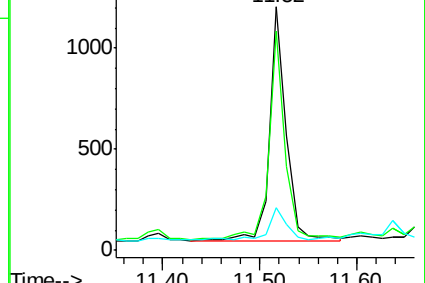
167 14.1 10.7 16.1



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: BE088237.D

Acq: 25 Oct 2014 7:50

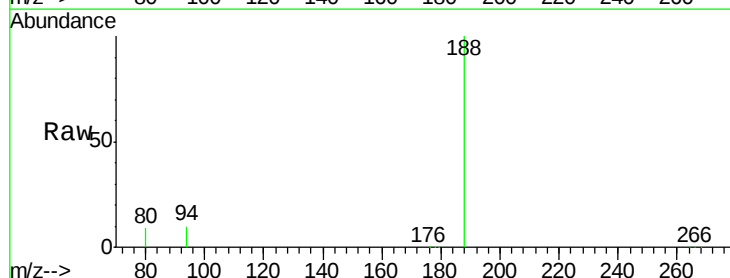
Tgt Ion:188 Resp: 104569

Ion Ratio Lower Upper

188 100

94 10.3 8.5 12.7

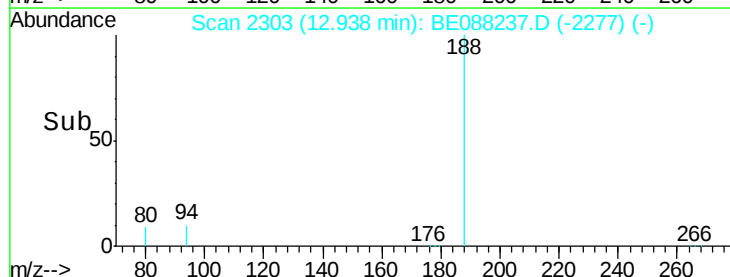
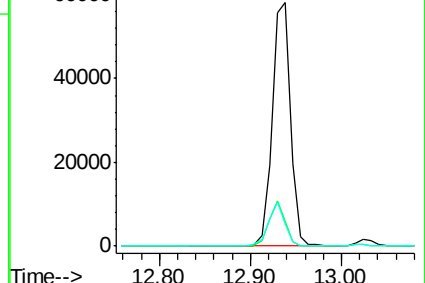
80 9.1 7.4 11.0

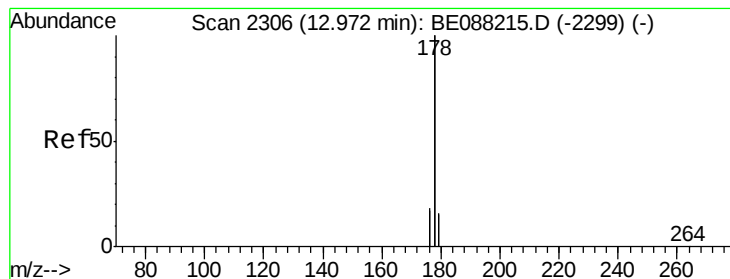


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0





#13

Phenanthrene

Concen: 1.37 ng

RT: 12.97 min Scan# 2307

Delta R.T. 0.00 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

Instrument :

BNA_E

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YS19-SB33-1014

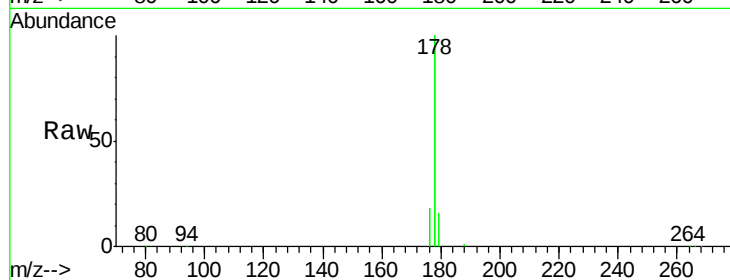
Tgt Ion:178 Resp: 138100

Ion Ratio Lower Upper

178 100

176 15.4 14.0 21.0

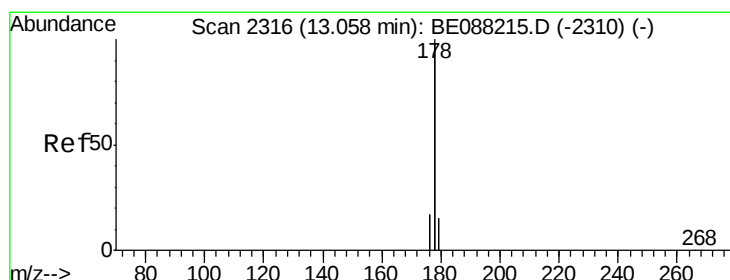
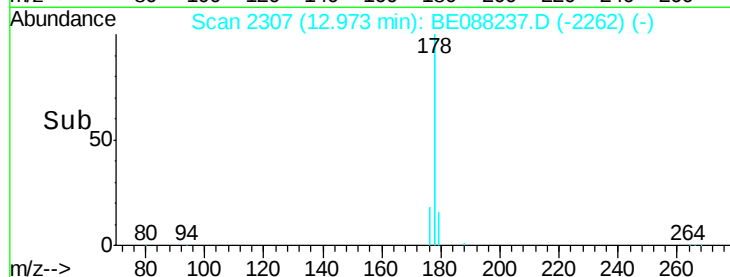
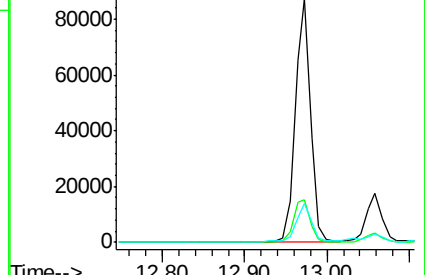
179 17.5 11.8 17.6



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: 1.85 ng

RT: 12.97 min Scan# 2307

Delta R.T. -0.09 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

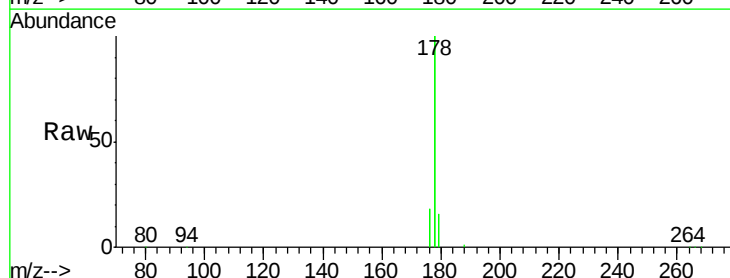
Tgt Ion:178 Resp: 138100

Ion Ratio Lower Upper

178 100

176 15.4 14.7 22.1

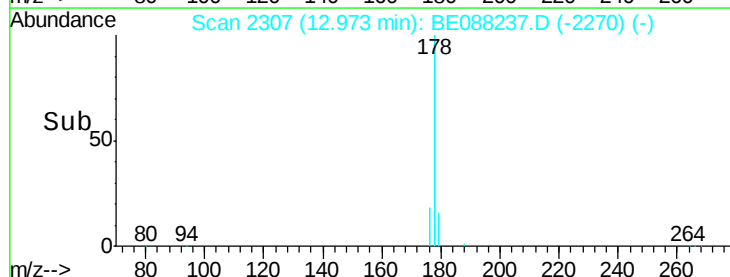
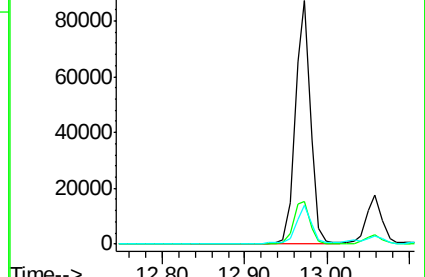
179 17.5 12.3 18.5

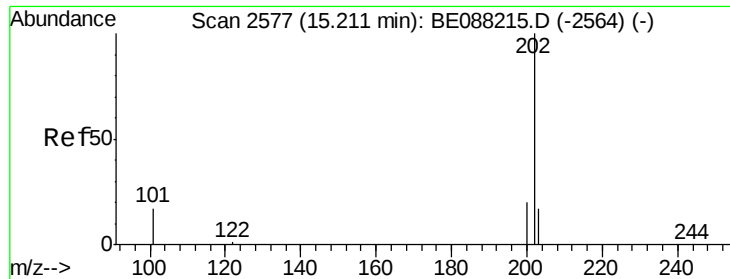


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

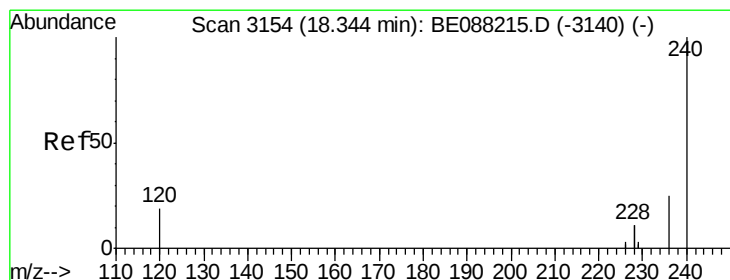
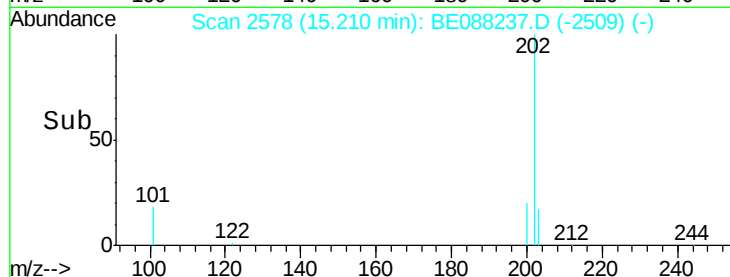
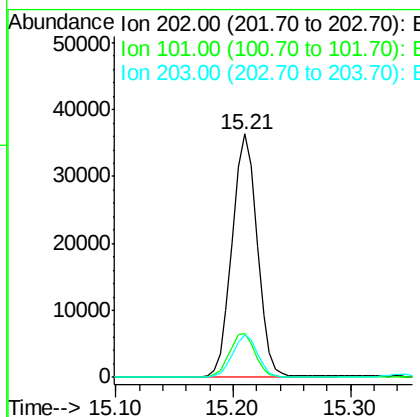
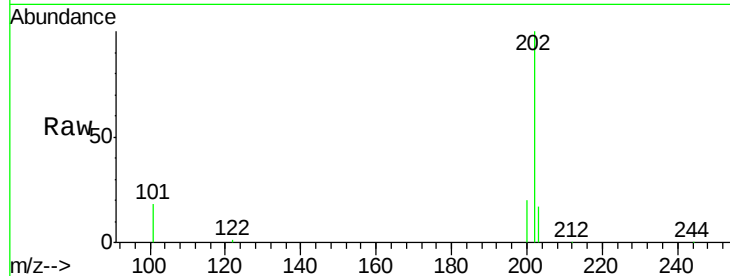




#15
 Fluoranthene
 Concen: 3.50 ng
 RT: 15.21 min Scan# 2578
 Delta R.T. -0.00 min
 Lab File: BE088237.D
 Acq: 25 Oct 2014 7:50

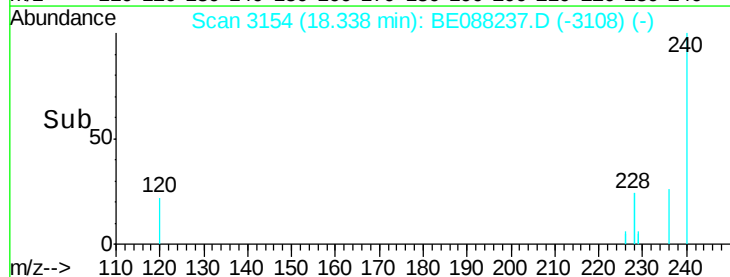
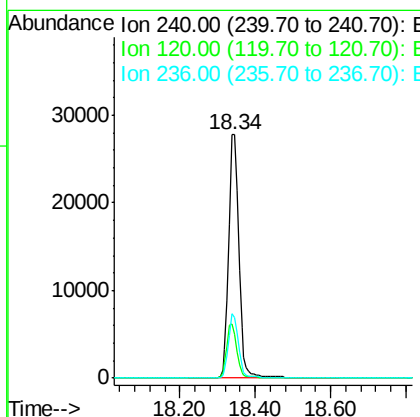
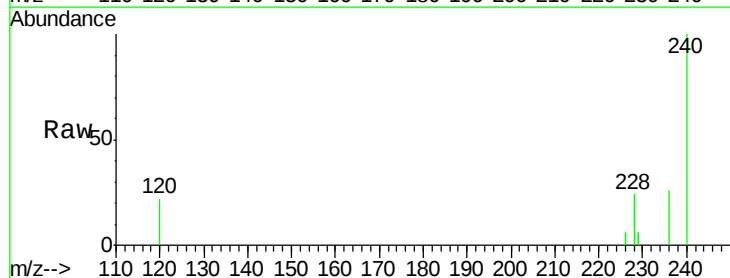
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB33-1014

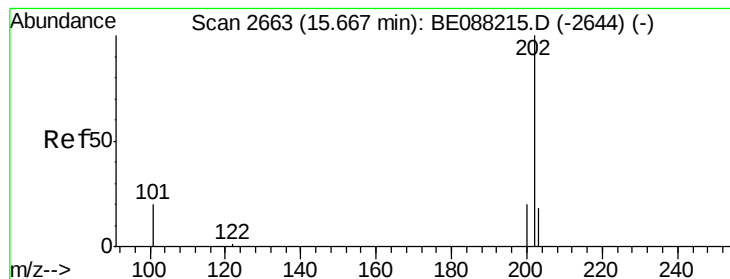
Tgt Ion: 202 Resp: 53601
 Ion Ratio Lower Upper
 202 100
 101 18.2 14.4 21.6
 203 17.2 13.4 20.2



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.34 min Scan# 3154
 Delta R.T. -0.01 min
 Lab File: BE088237.D
 Acq: 25 Oct 2014 7:50

Tgt Ion: 240 Resp: 50932
 Ion Ratio Lower Upper
 240 100
 120 22.5 15.1 22.7
 236 26.2 20.1 30.1





#17

Pyrene

Concen: 3.35 ng

RT: 15.67 min Scan# 2664

Delta R.T. -0.00 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB33-1014

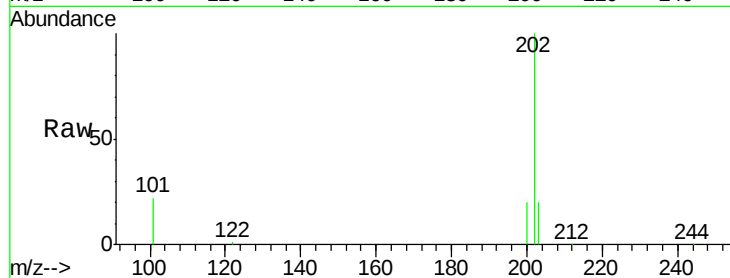
Tgt Ion: 202 Resp: 46839

Ion Ratio Lower Upper

202 100

200 20.3 16.2 24.2

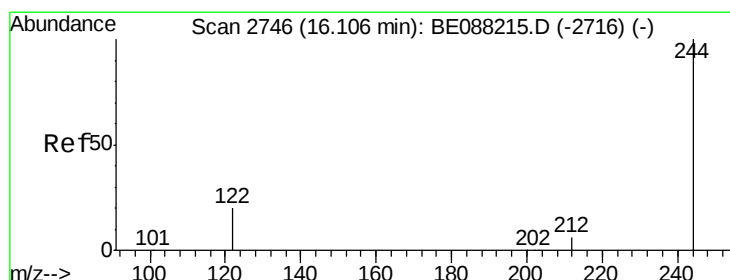
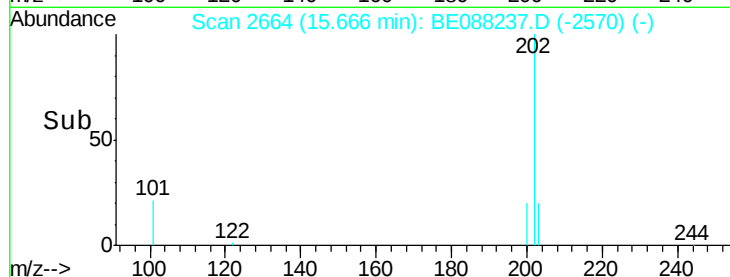
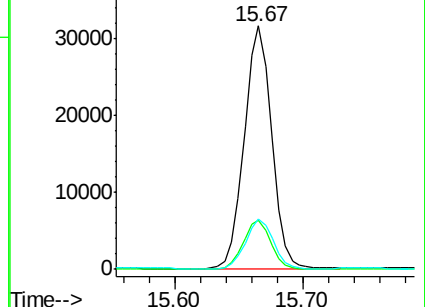
203 20.4 13.8 20.8



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: 49.32 ng

RT: 16.13 min Scan# 2751

Delta R.T. 0.02 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

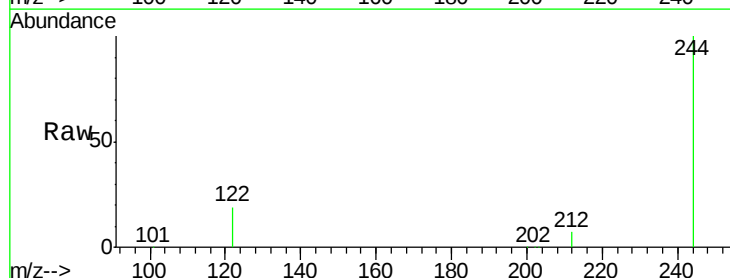
Tgt Ion: 244 Resp: 411396

Ion Ratio Lower Upper

244 100

212 6.7 5.4 8.2

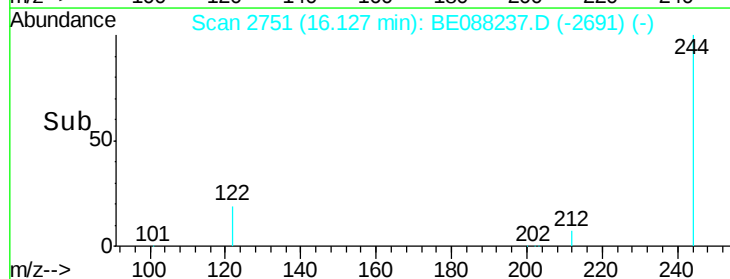
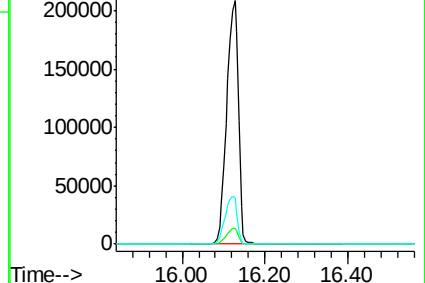
122 18.9 16.7 25.1

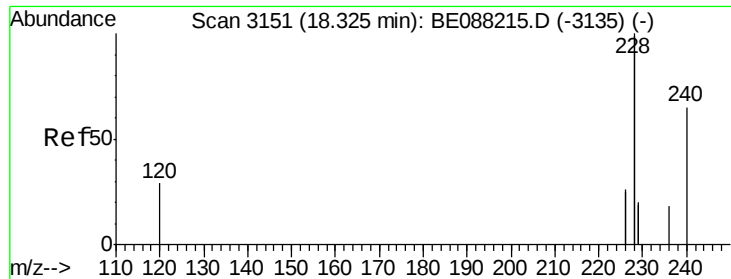


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 1.62 ng

RT: 18.32 min Scan# 3151

Delta R.T. -0.01 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB33-1014

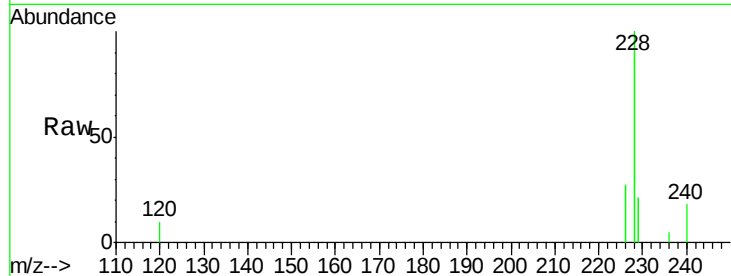
Tgt Ion:228 Resp: 64944

Ion Ratio Lower Upper

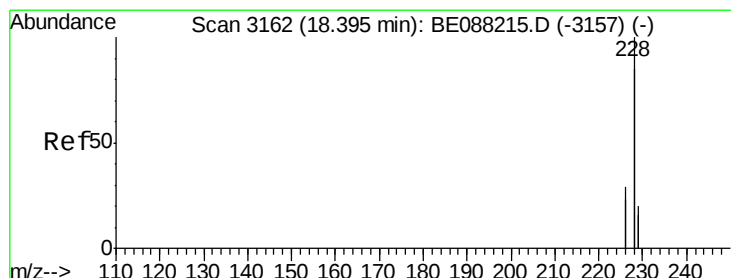
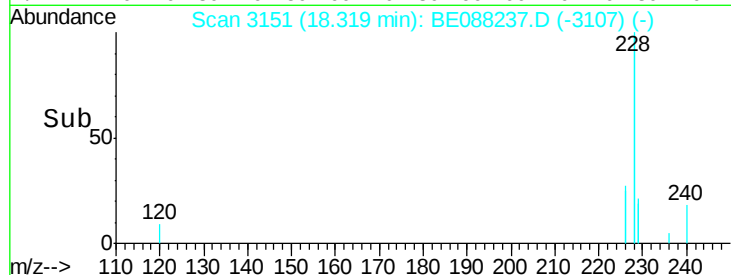
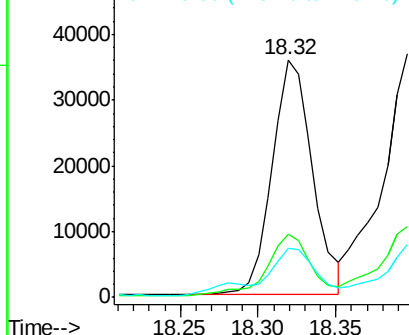
228 100

226 26.7 20.5 30.7

229 20.6 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: 1.71 ng

RT: 18.40 min Scan# 3163

Delta R.T. 0.00 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

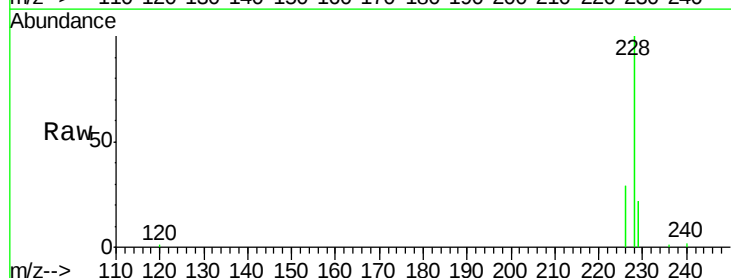
Tgt Ion:228 Resp: 77867

Ion Ratio Lower Upper

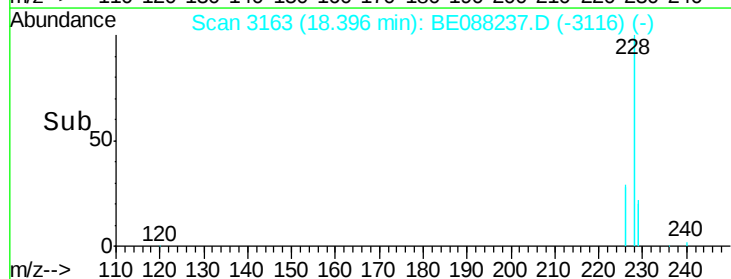
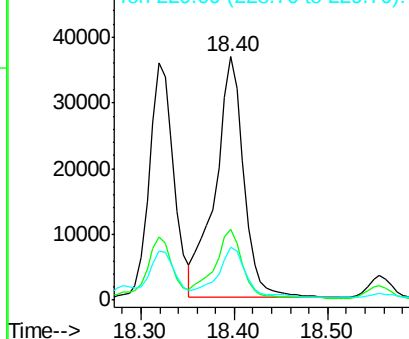
228 100

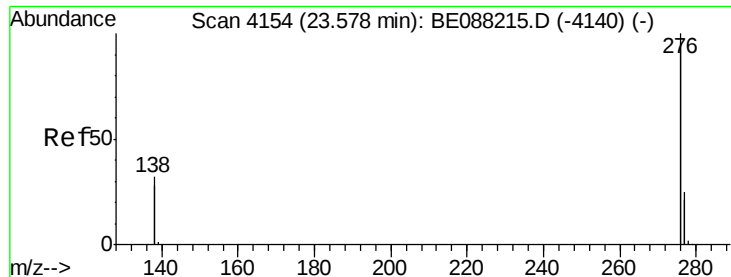
226 29.0 23.3 34.9

229 21.6 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: 0.97 ng

RT: 23.57 min Scan# 4154

Delta R.T. -0.01 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB33-1014

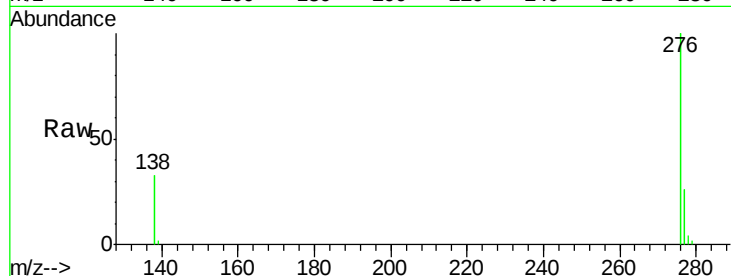
Tgt Ion:276 Resp: 36308

Ion Ratio Lower Upper

276 100

138 31.4 13.9 20.9#

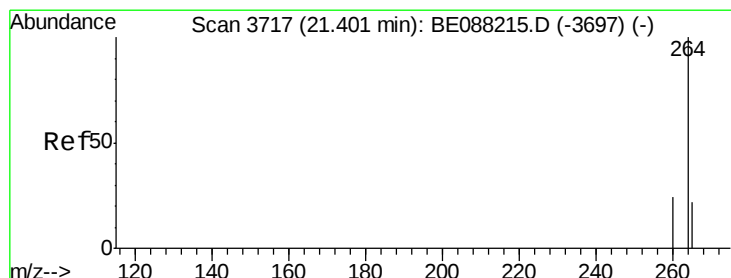
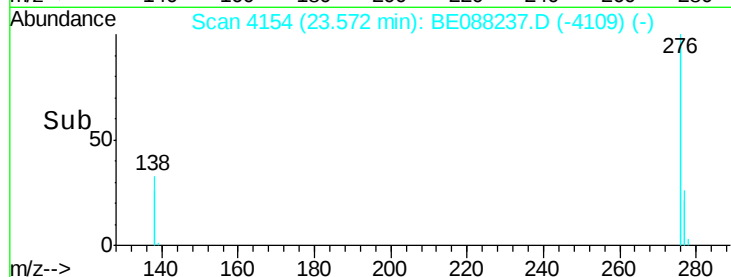
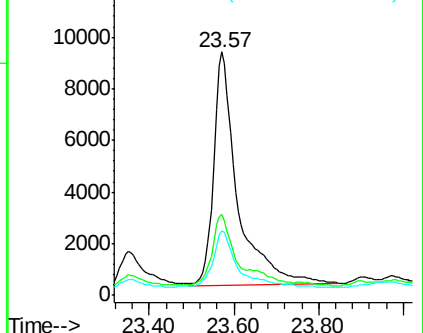
277 23.8 10.7 16.1#



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: BE088237.D

Acq: 25 Oct 2014 7:50

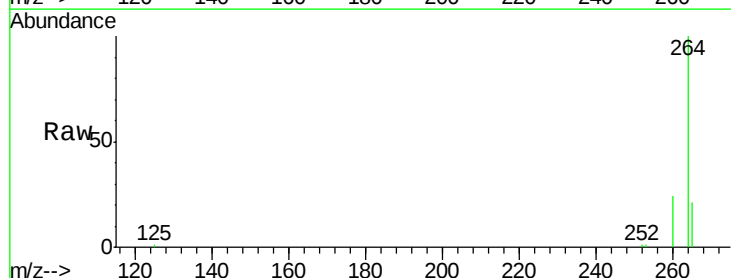
Tgt Ion:264 Resp: 41477

Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.4

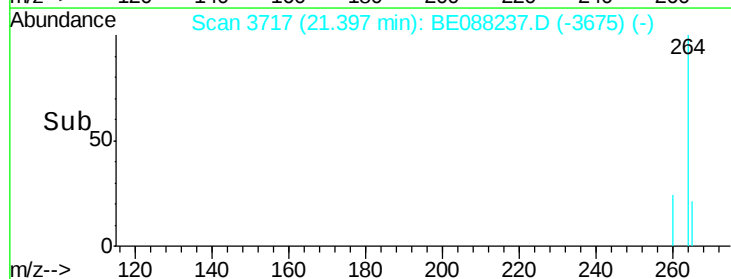
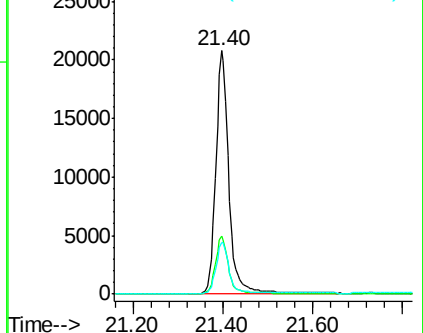
265 21.5 17.4 26.2

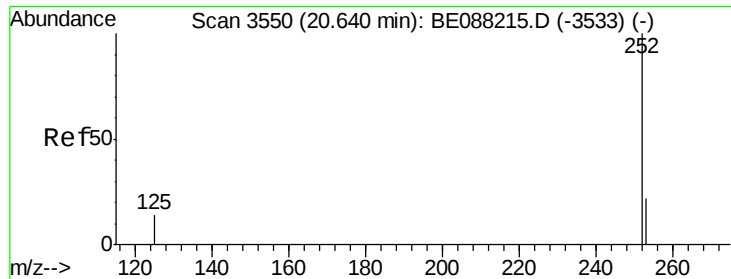


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 2.34 ng

RT: 20.64 min Scan# 3551

Delta R.T. 0.00 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB33-1014

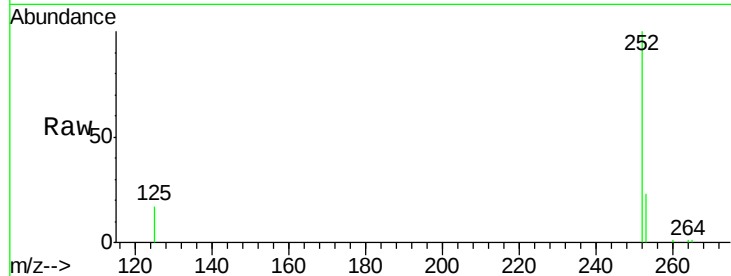
Tgt Ion:252 Resp: 19694

Ion Ratio Lower Upper

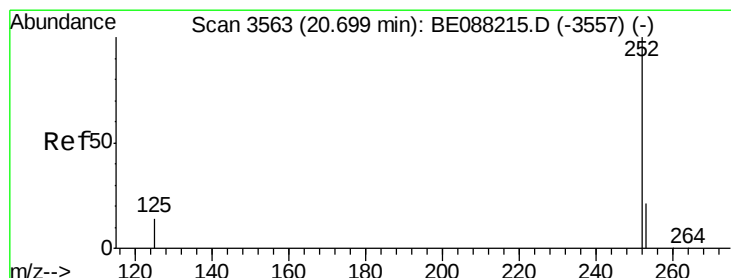
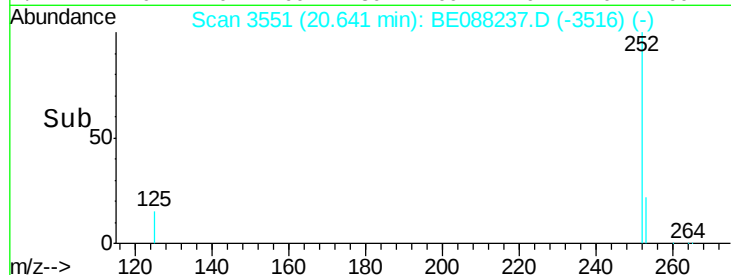
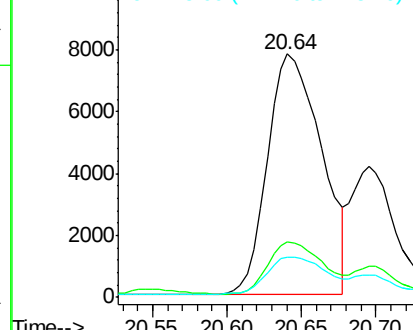
252 100

253 23.0 17.9 26.9

125 16.6 12.2 18.2



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



#24

Benzo(k)fluoranthene

Concen: 0.79 ng

RT: 20.70 min Scan# 3563

Delta R.T. -0.00 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

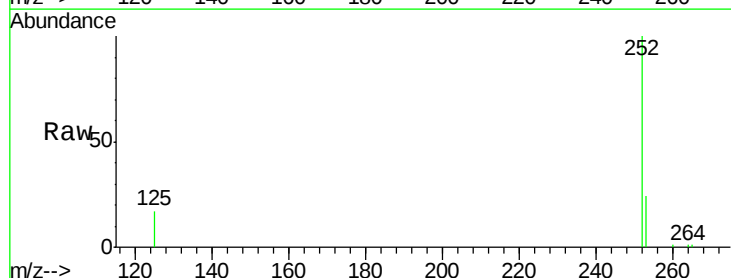
Tgt Ion:252 Resp: 8447

Ion Ratio Lower Upper

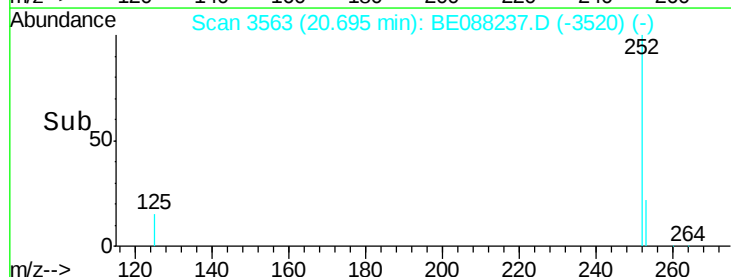
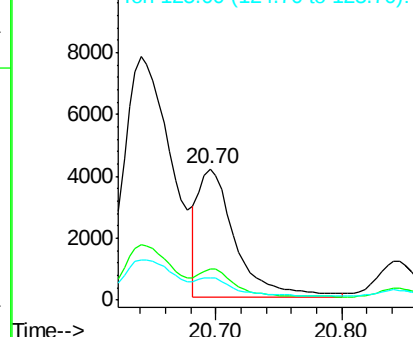
252 100

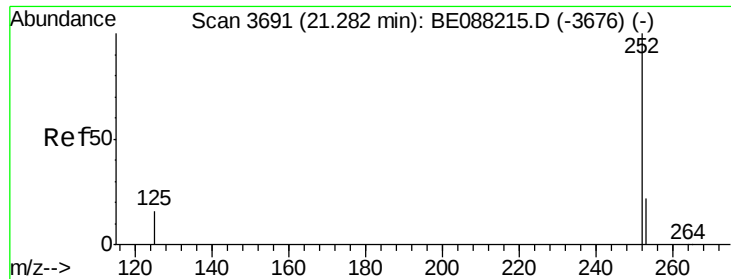
253 23.9 17.6 26.4

125 17.3 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





#25

Benzo(a)pyrene

Concen: 1.47 ng

RT: 21.28 min Scan# 3691

Delta R.T. -0.00 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB33-1014

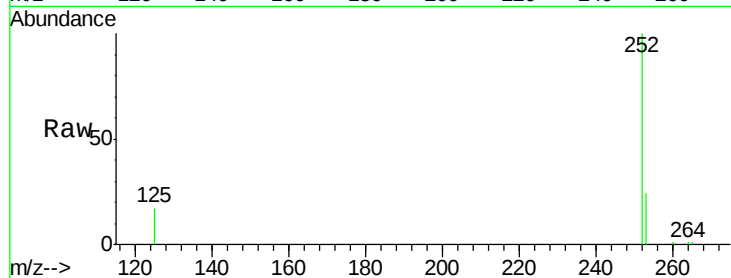
Tgt Ion: 252 Resp: 11659

Ion Ratio Lower Upper

252 100

253 24.0 17.8 26.8

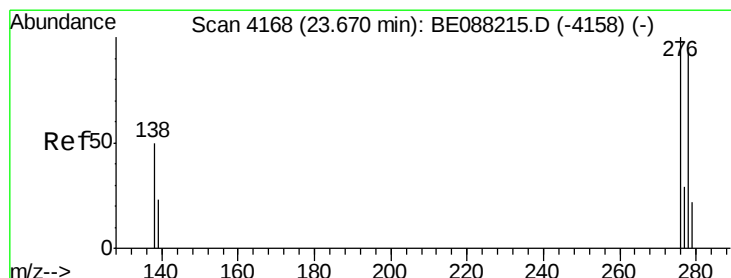
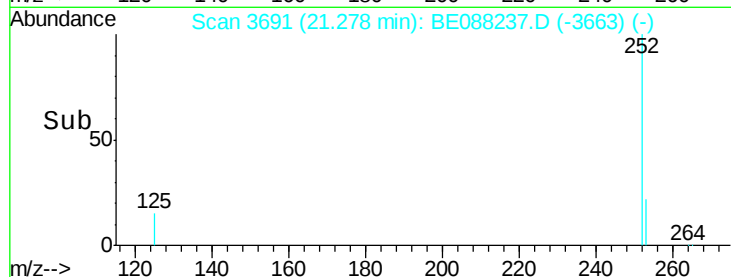
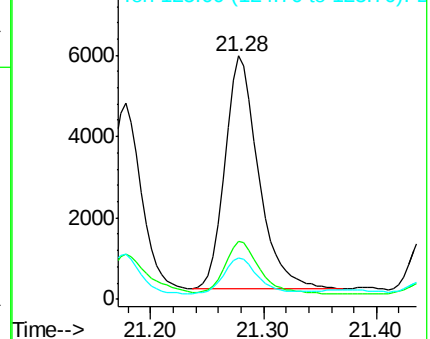
125 17.2 13.5 20.3



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



#26

Dibenzo(a,h)anthracene

Concen: 0.39 ng

RT: 23.66 min Scan# 4168

Delta R.T. -0.01 min

Lab File: BE088237.D

Acq: 25 Oct 2014 7:50

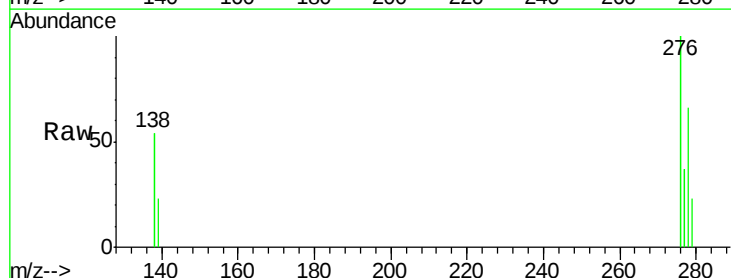
Tgt Ion: 278 Resp: 1577

Ion Ratio Lower Upper

278 100

139 34.5 22.1 33.1#

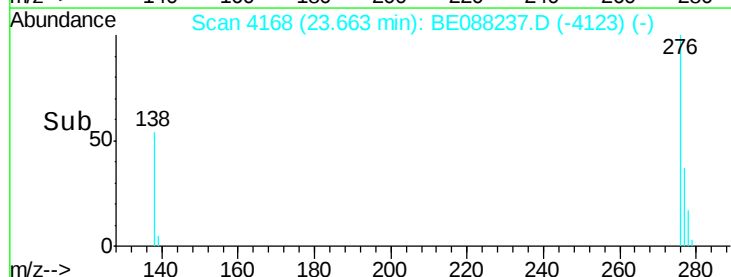
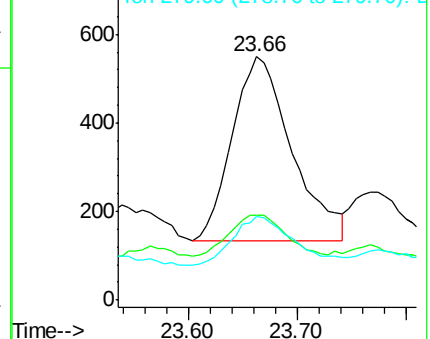
279 34.4 20.2 30.2#

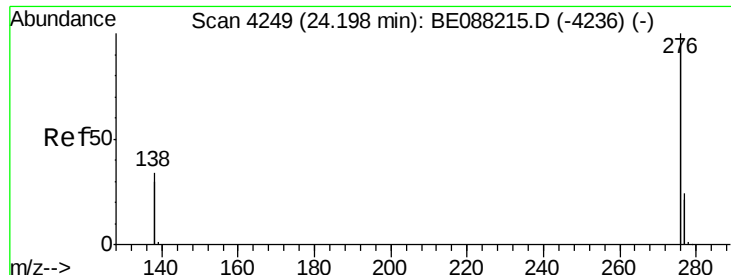


Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 1.03 ng

RT: 24.20 min Scan# 4250

Delta R.T. -0.00 min

Lab File: BE088237.D

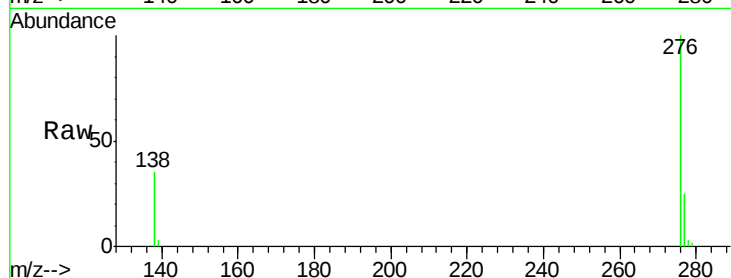
Acq: 25 Oct 2014 7:50

Instrument :

BNA_E

ClientSampleId :

YS19-SB33-1014



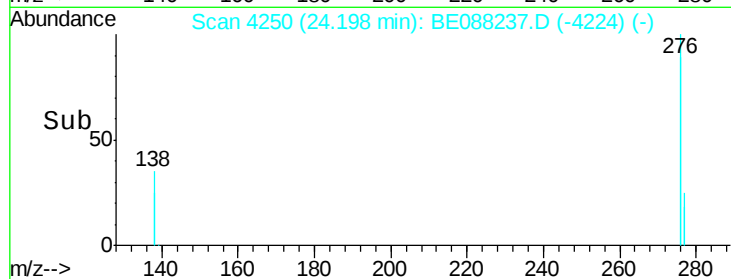
Tgt Ion: 276 Resp: 34103

Ion Ratio Lower Upper

276 100

277 25.4 19.4 29.2

138 34.8 27.3 40.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

