

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102414\
 Data File : BE088238.D
 Acq On : 25 Oct 2014 8:22
 Operator : TP/JJ
 Sample : F4368-18
 Misc :
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS42-1014

Quant Time: Oct 27 13:48:29 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	26848	5.00	ng	0.00
3) Naphthalene-d8	8.68	136	109364	5.00	ng	0.00
7) Acenaphthene-d10	10.82	164	56855	5.00	ng	0.00
12) Phenanthrene-d10	12.94	188	110509	5.00	ng	0.00
16) Chrysene-d12	18.34	240	49977	5.00	ng	0.00
22) Perylene-d12	21.40	264	43188	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.81	82	441029	53.35	ng	0.02
8) 2-Fluorobiphenyl	10.02	172	556334	35.09	ng	0.00
18) Terphenyl-d14	16.13	244	463146	56.59	ng	0.02

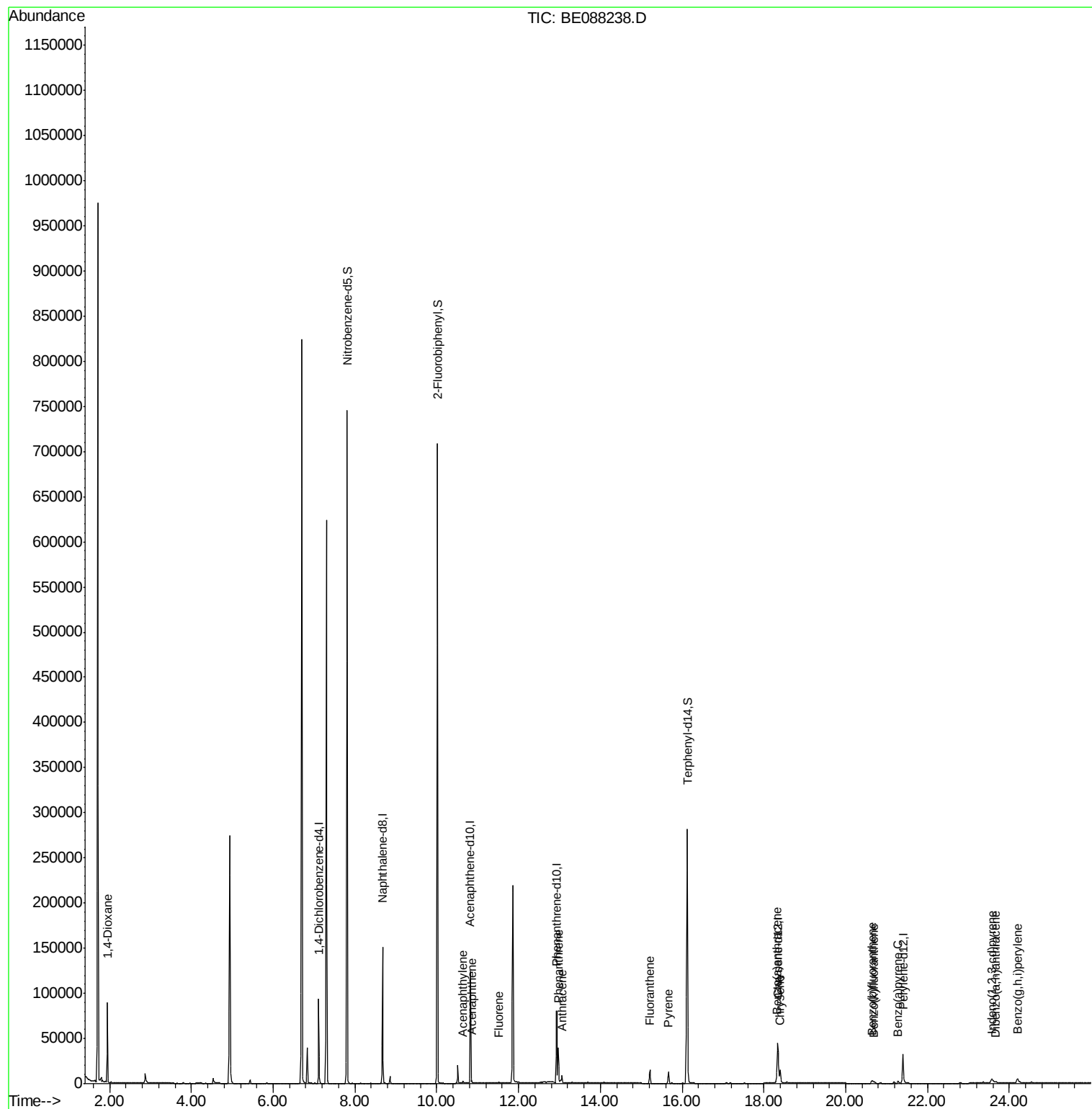
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) 1,4-Dioxane	1.95	88	2687	0.72	ng	# 1
9) Acenaphthylene	10.64	152	2179	0.03	ng	# 99
10) Acenaphthene	10.86	154	459	0.03	ng	# 81
11) Fluorene	11.52	166	534	0.04	ng	# 96
13) Phenanthrene	12.97	178	45346	0.43	ng	# 90
14) Anthracene	13.06	178	7396	0.09	ng	# 80
15) Fluoranthene	15.21	202	14499	0.90	ng	# 99
17) Pyrene	15.66	202	12361	0.90	ng	# 96
19) Benzo(a)anthracene	18.32	228	18569	0.47	ng	# 97
20) Chrysene	18.40	228	21430	0.48	ng	# 96
21) Indeno(1,2,3-cd)pyrene	23.58	276	12912	0.51	ng	# 76
23) Benzo(b)fluoranthene	20.64	252	5614	0.76	ng	# 92
24) Benzo(k)fluoranthene	20.70	252	2704	0.24	ng	# 89
25) Benzo(a)pyrene	21.28	252	3671	0.56	ng	# 93
26) Dibenzo(a,h)anthracene	23.66	278	794	0.30	ng	# 68
27) Benzo(g,h,i)perylene	24.20	276	12276	0.35	ng	# 91

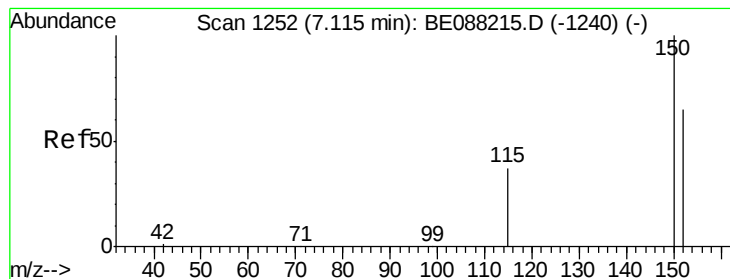
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.12 min Scan# 1252

Delta R.T. 0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

Instrument :

BNA_E

ClientSampleId :

YS19-SS42-1014

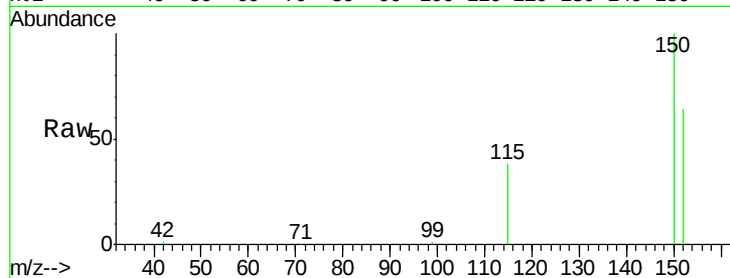
Tgt Ion:152 Resp: 26848

Ion Ratio Lower Upper

152 100

150 157.1 123.2 184.8

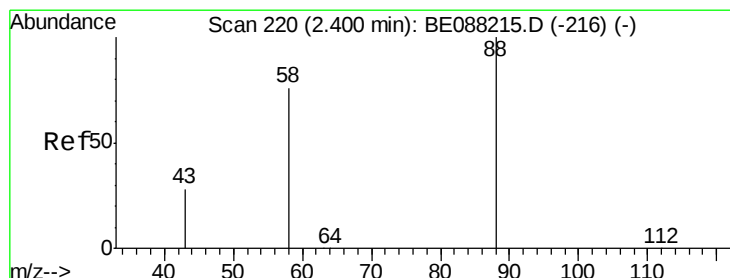
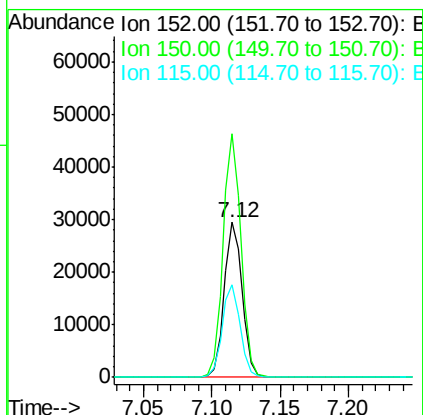
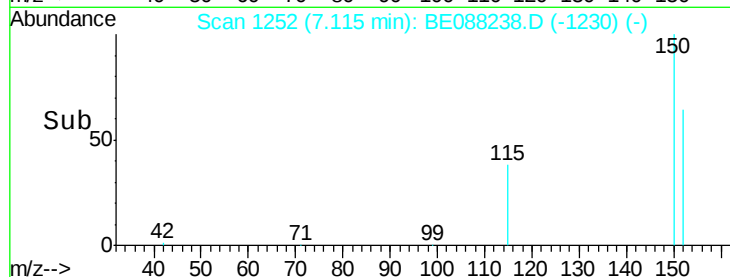
115 59.6 45.3 67.9



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: 0.72 ng

RT: 1.95 min Scan# 121

Delta R.T. -0.45 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

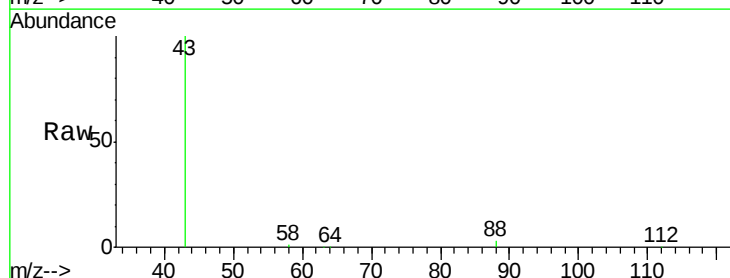
Tgt Ion: 88 Resp: 2687

Ion Ratio Lower Upper

88 100

58 27.5 59.0 88.4#

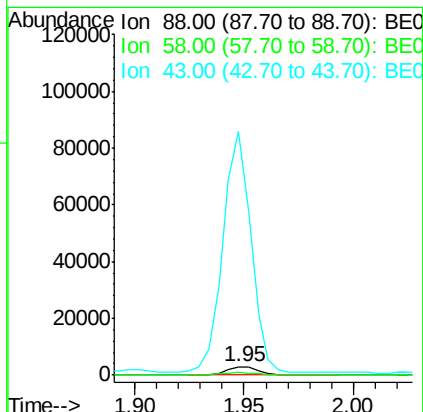
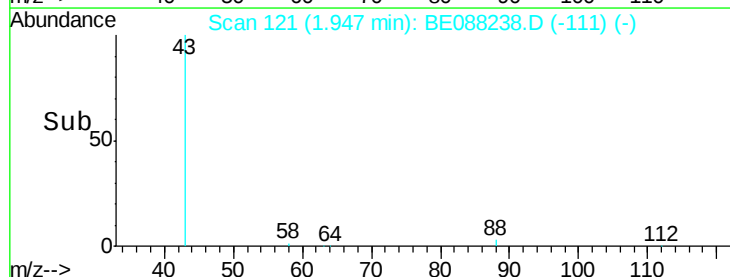
43 2833.0 21.9 32.9#

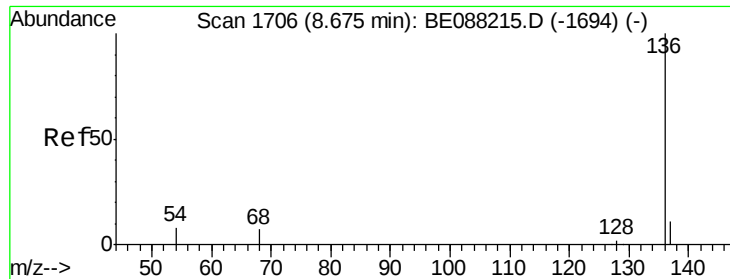


Abundance Ion 88.00 (87.70 to 88.70): BE0

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# 1706

Delta R.T. 0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

Instrument :

BNA_E

ClientSampleId :

YS19-SS42-1014

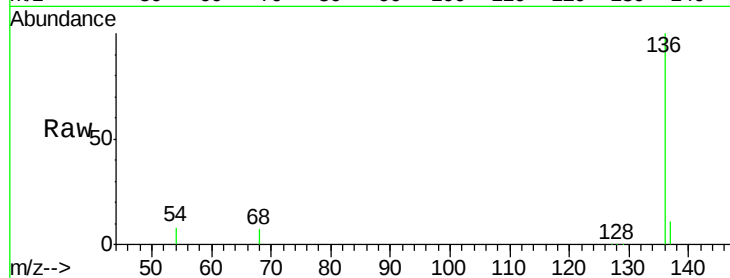
Tgt Ion: 136 Resp: 109364

Ion Ratio Lower Upper

136 100

137 10.9 8.7 13.1

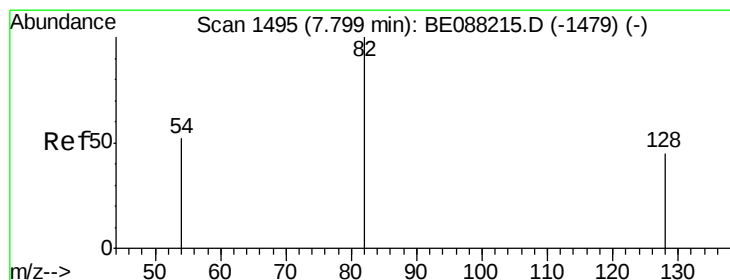
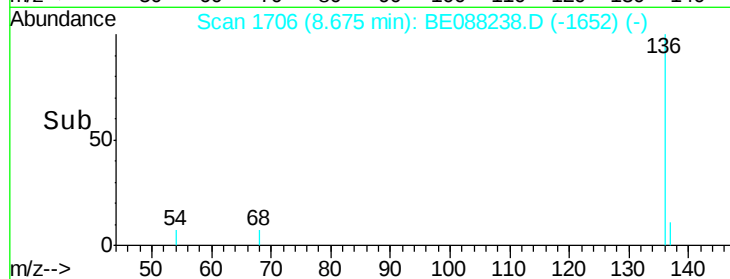
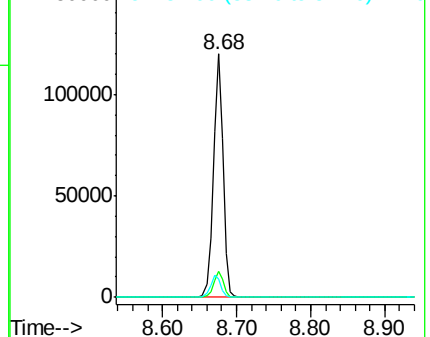
54 7.7 6.1 9.1



Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0



#4

Nitrobenzene-d5

Concen: 53.35 ng

RT: 7.81 min Scan# 1501

Delta R.T. 0.02 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

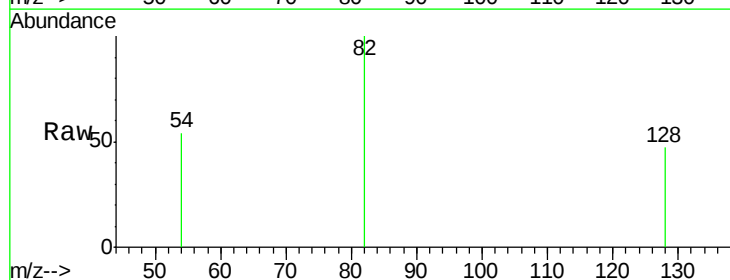
Tgt Ion: 82 Resp: 441029

Ion Ratio Lower Upper

82 100

128 46.6 36.2 54.2

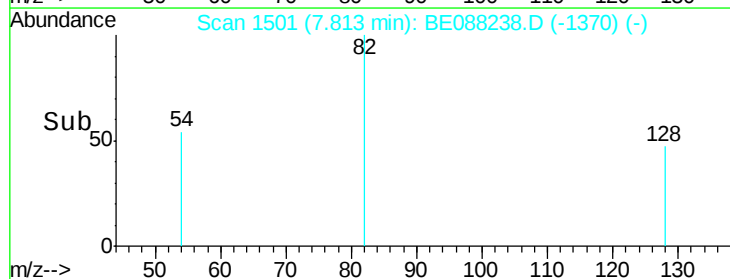
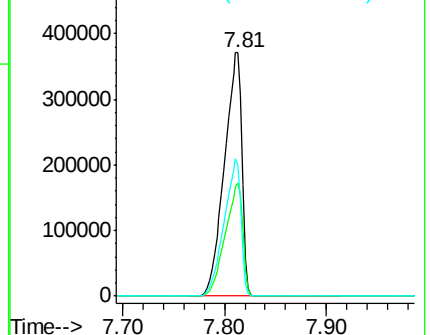
54 54.0 41.8 62.8

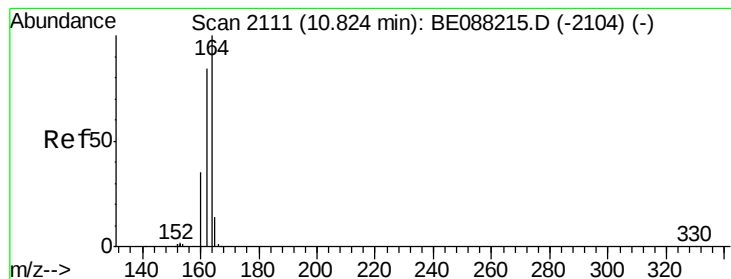


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.82 min Scan# 2111

Delta R.T. 0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

Instrument :

BNA_E

ClientSampleId :

YS19-SS42-1014

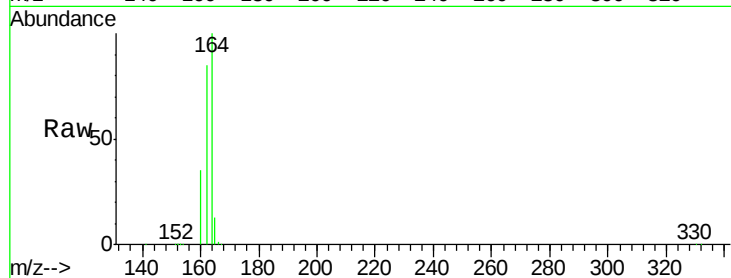
Tgt Ion:164 Resp: 56855

Ion Ratio Lower Upper

164 100

162 85.1 67.4 101.0

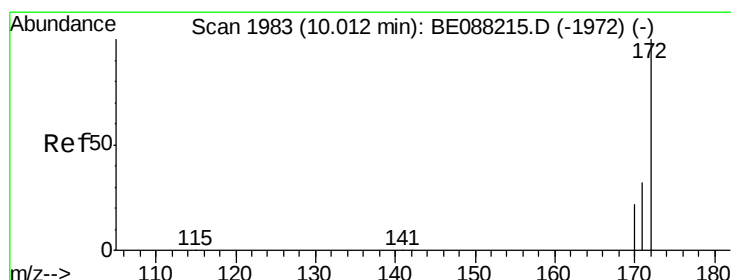
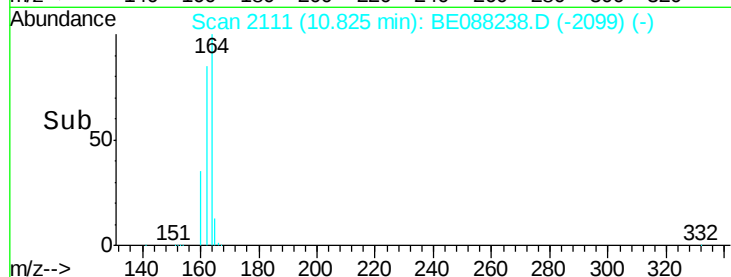
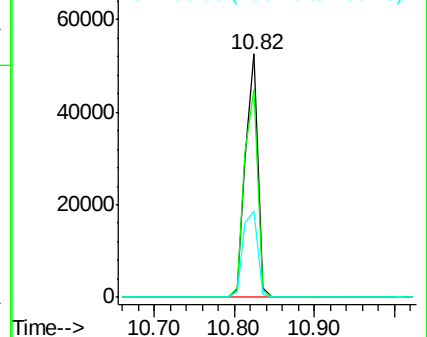
160 35.3 27.7 41.5



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



#8

2-Fluorobiphenyl

Concen: 35.09 ng

RT: 10.02 min Scan# 1985

Delta R.T. 0.01 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

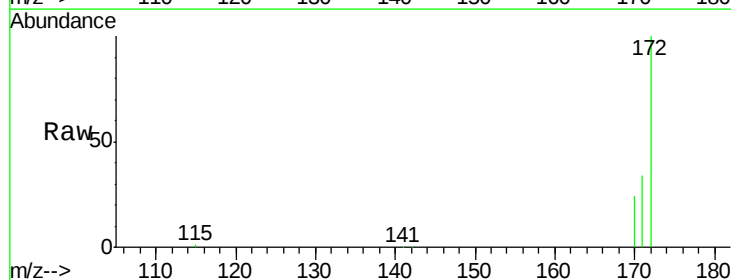
Tgt Ion:172 Resp: 556334

Ion Ratio Lower Upper

172 100

171 33.9 25.8 38.6

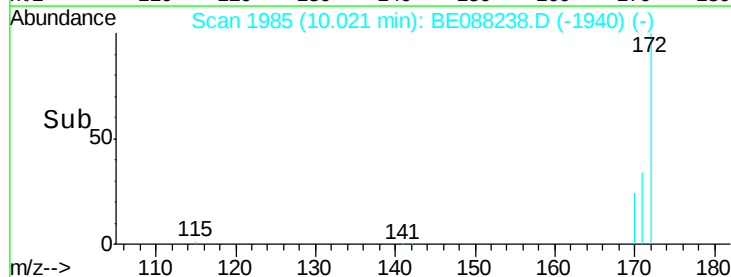
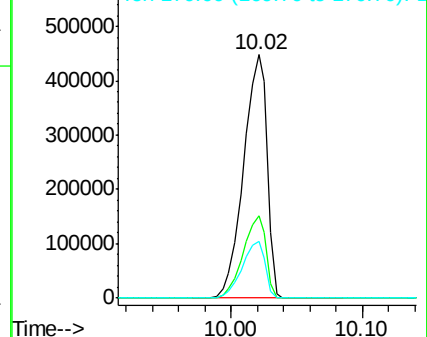
170 23.6 17.4 26.0

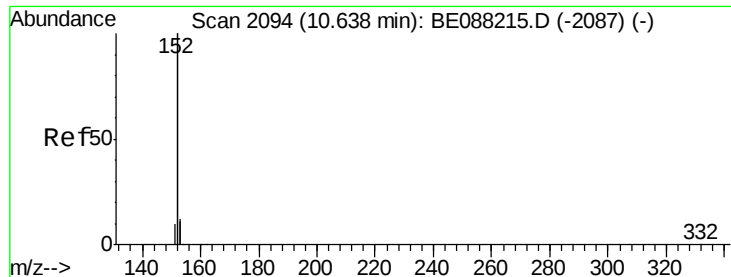


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.03 ng

RT: 10.64 min Scan# 2094

Delta R.T. 0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

Instrument :

BNA_E

ClientSampleId :

YS19-SS42-1014

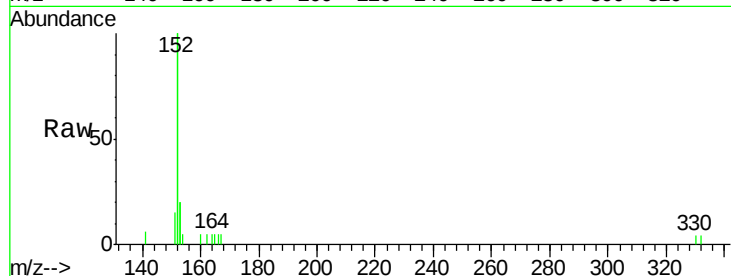
Tgt Ion:152 Resp: 2179

Ion Ratio Lower Upper

152 100

151 5.5 3.7 5.5

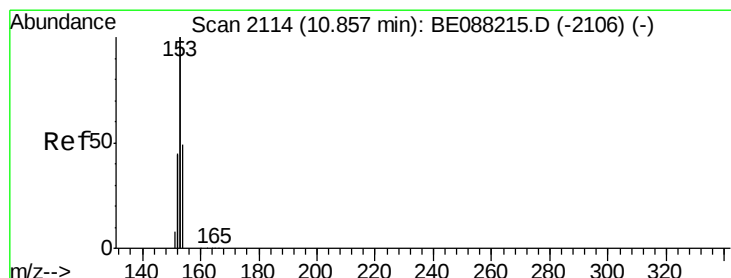
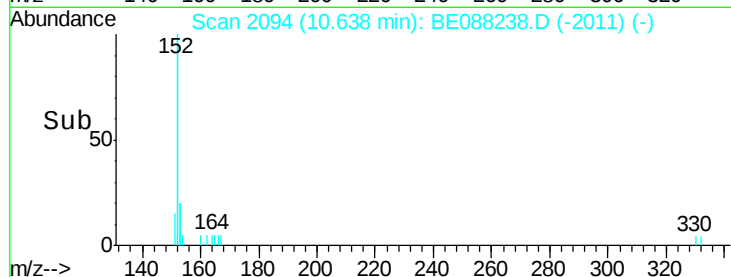
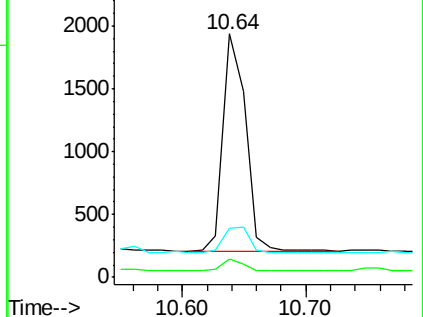
153 12.9 10.3 15.5



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: 0.03 ng

RT: 10.86 min Scan# 2114

Delta R.T. 0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

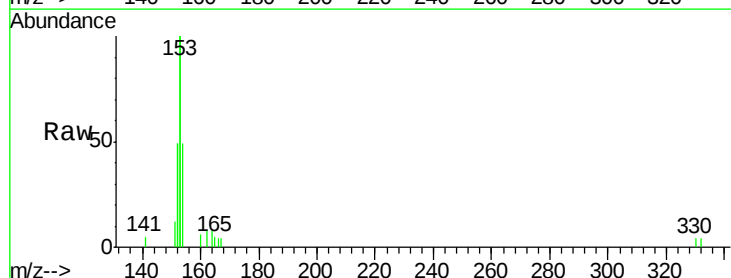
Tgt Ion:154 Resp: 459

Ion Ratio Lower Upper

154 100

153 441.8 326.0 489.0

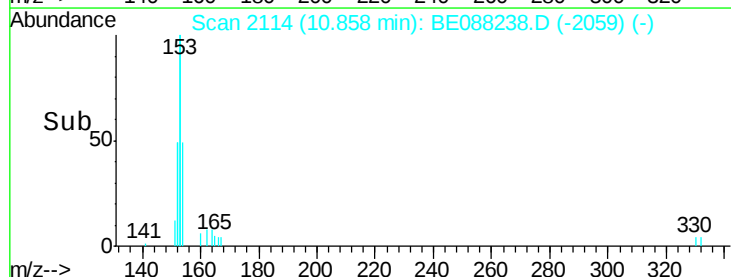
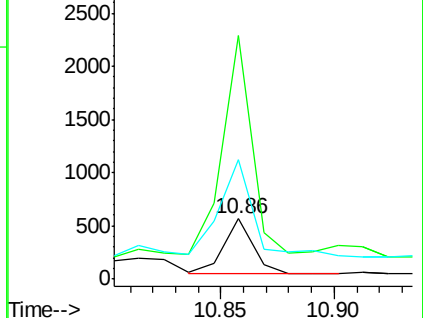
152 235.9 155.6 233.4#

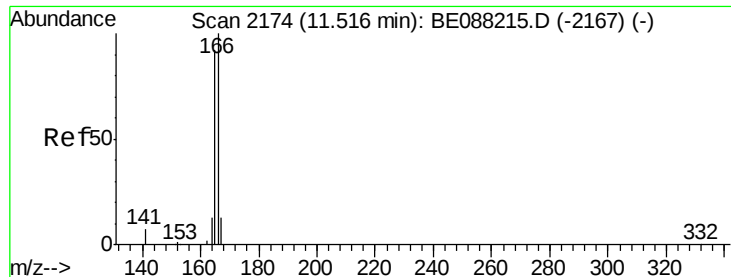


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

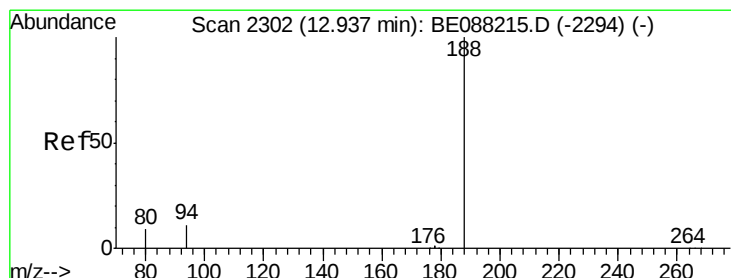
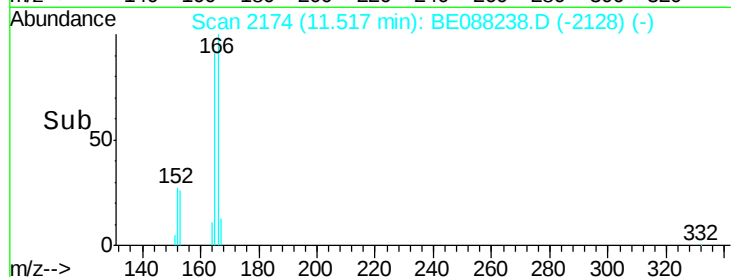
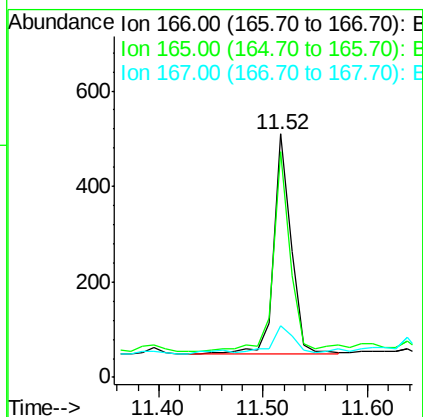
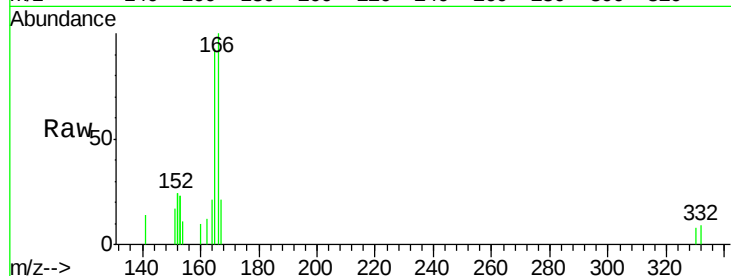




#11
Fluorene
 Concen: 0.04 ng
 RT: 11.52 min Scan# 2174
 Delta R.T. 0.00 min
 Lab File: BE088238.D
 Acq: 25 Oct 2014 8:22

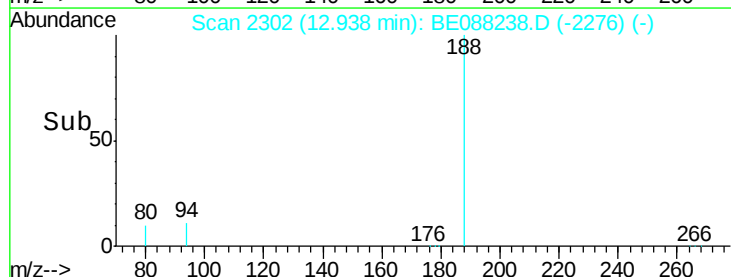
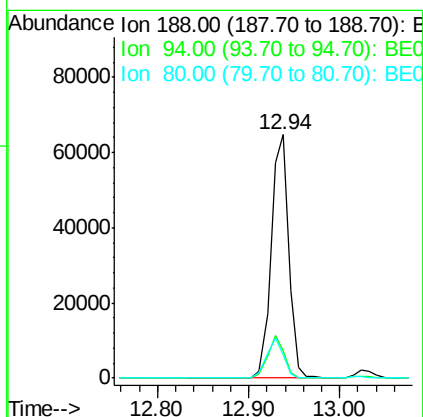
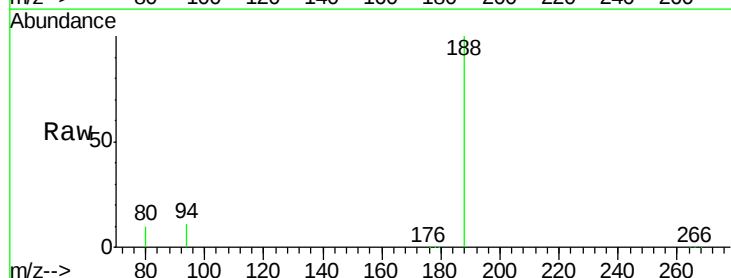
Instrument :
 BNA_E
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 YS19-SS42-1014

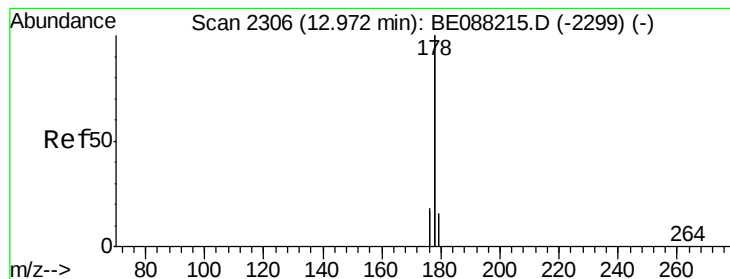
Tgt Ion:166 Resp: 534
 Ion Ratio Lower Upper
 166 100
 165 86.0 71.8 107.6
 167 15.2 10.7 16.1



#12
Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.94 min Scan# 2302
 Delta R.T. 0.00 min
 Lab File: BE088238.D
 Acq: 25 Oct 2014 8:22

Tgt Ion:188 Resp: 110509
 Ion Ratio Lower Upper
 188 100
 94 11.2 8.5 12.7
 80 9.8 7.4 11.0





#13

Phenanthrene

Concen: 0.43 ng

RT: 12.97 min Scan# 2306

Delta R.T. 0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

Instrument :

BNA_E

ClientSampleId :

YS19-SS42-1014

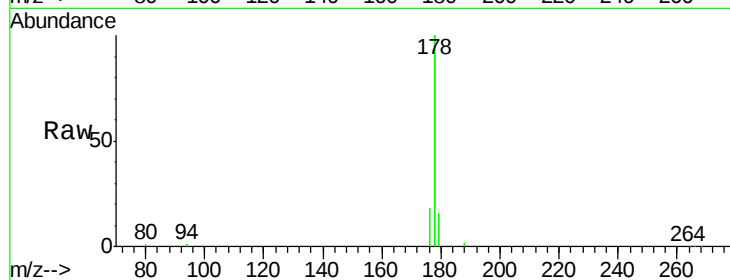
Tgt Ion:178 Resp: 45346

Ion Ratio Lower Upper

178 100

176 15.6 14.0 21.0

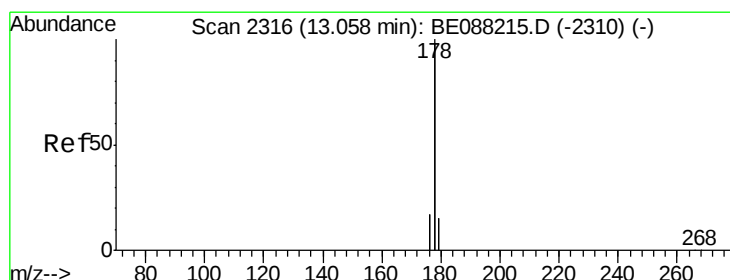
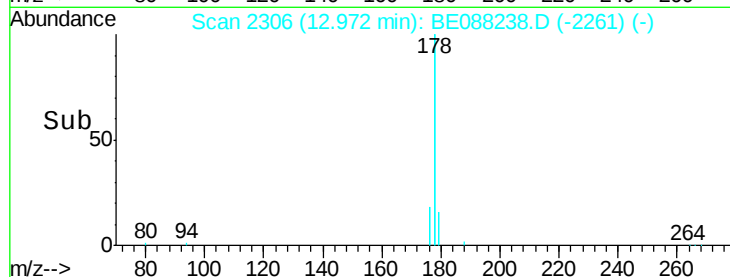
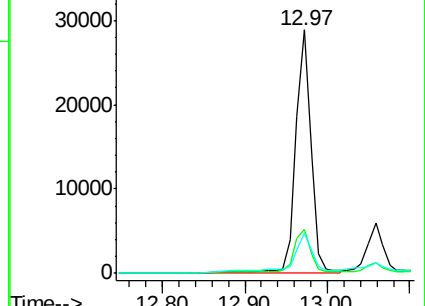
179 21.9 11.8 17.6#



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: 0.09 ng

RT: 13.06 min Scan# 2316

Delta R.T. 0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

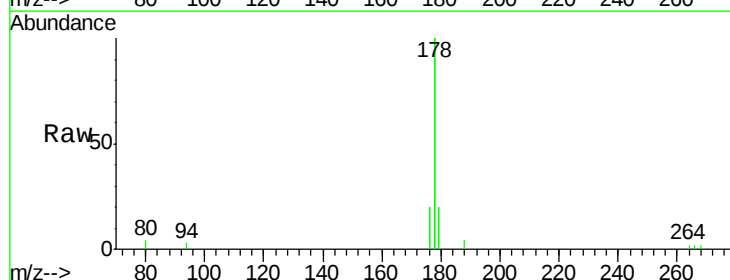
Tgt Ion:178 Resp: 7396

Ion Ratio Lower Upper

178 100

176 20.9 14.7 22.1

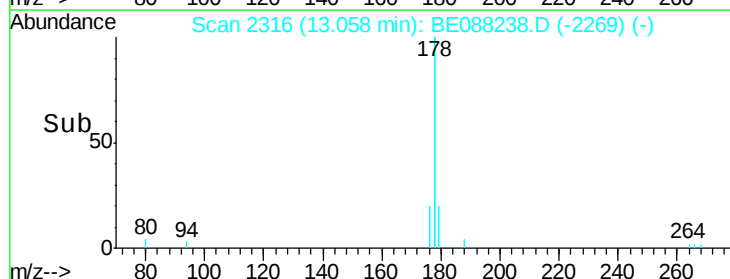
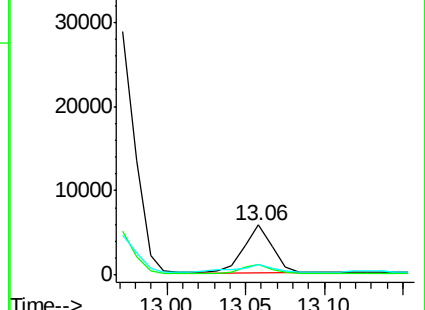
179 31.4 12.3 18.5#

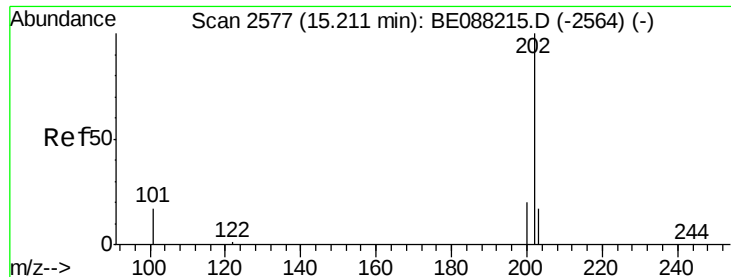


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.90 ng

RT: 15.21 min Scan# 2577

Delta R.T. 0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

Instrument :

BNA_E

ClientSampleId :

YS19-SS42-1014

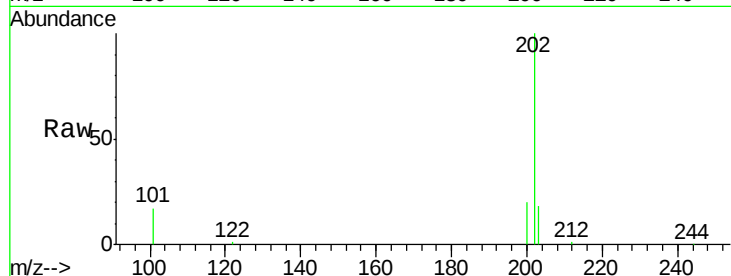
Tgt Ion:202 Resp: 14499

Ion Ratio Lower Upper

202 100

101 18.4 14.4 21.6

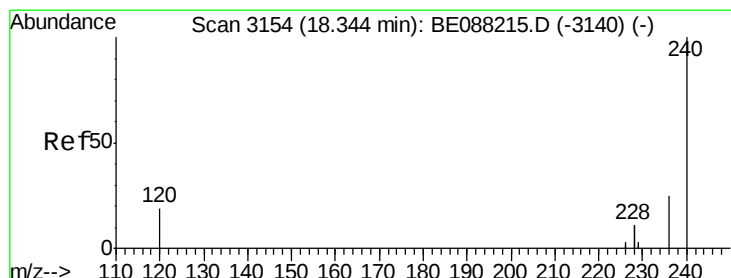
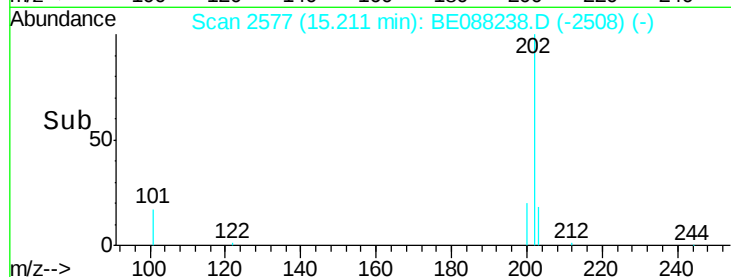
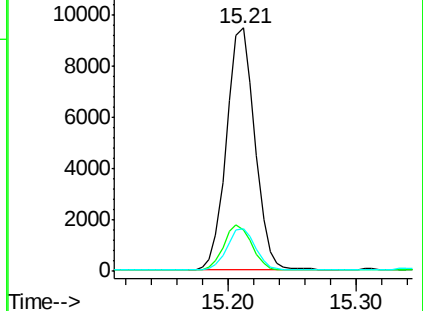
203 17.2 13.4 20.2



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# 3154

Delta R.T. 0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

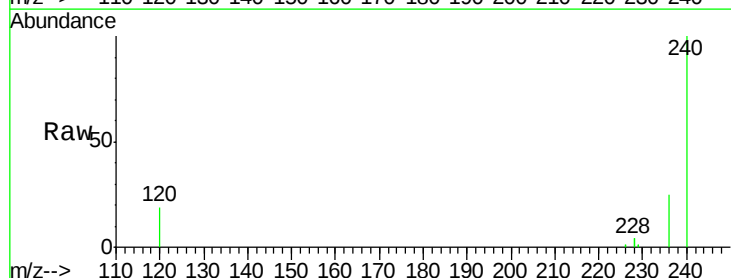
Tgt Ion:240 Resp: 49977

Ion Ratio Lower Upper

240 100

120 19.1 15.1 22.7

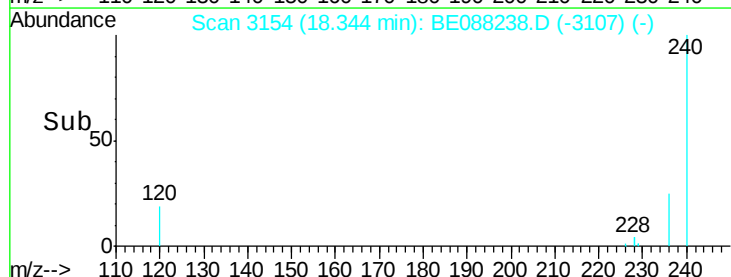
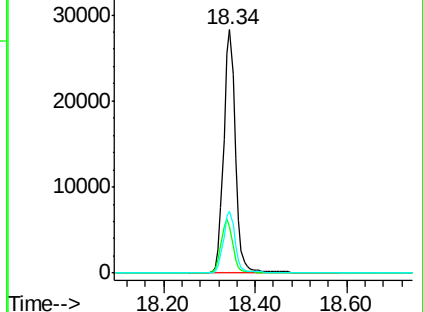
236 25.4 20.1 30.1

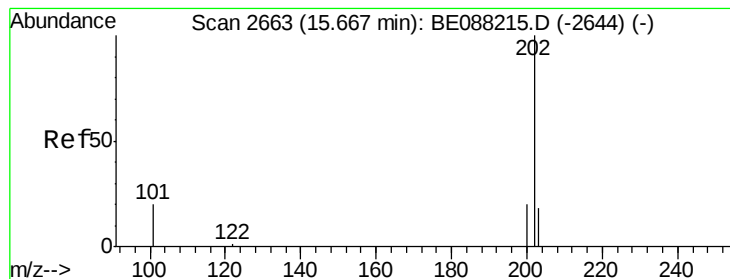


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#17

Pyrene

Concen: 0.90 ng

RT: 15.66 min Scan# 2662

Delta R.T. -0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

Instrument :

BNA_E

ClientSampleId :

YS19-SS42-1014

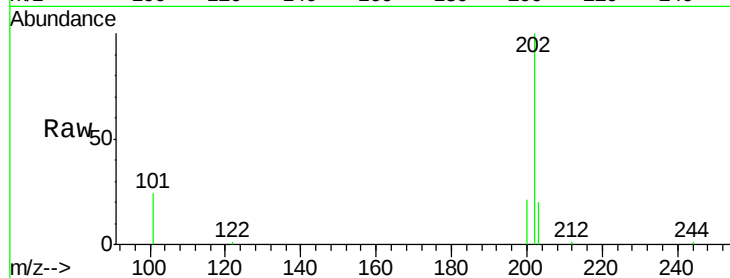
Tgt Ion: 202 Resp: 12361

Ion Ratio Lower Upper

202 100

200 20.4 16.2 24.2

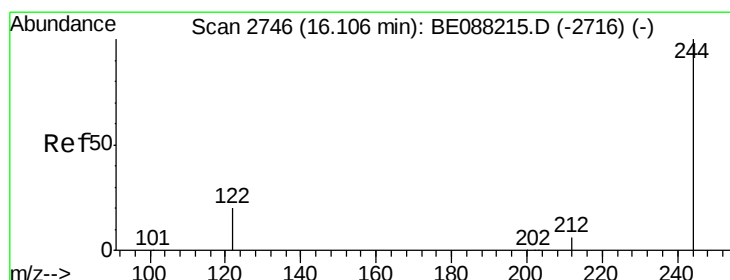
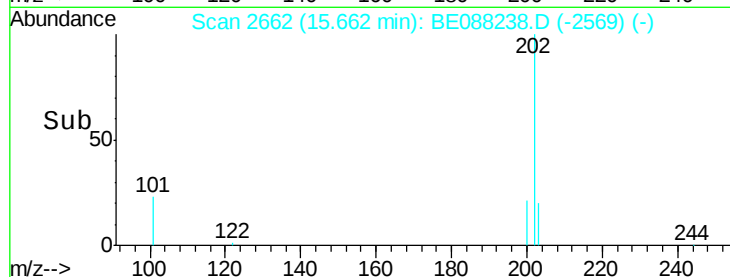
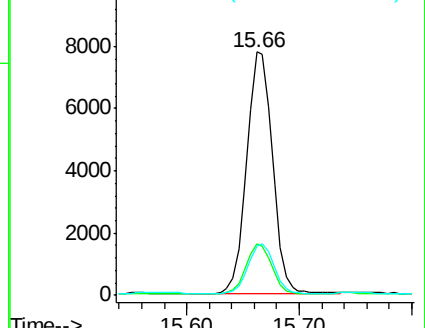
203 20.5 13.8 20.8



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: 56.59 ng

RT: 16.13 min Scan# 2750

Delta R.T. 0.02 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

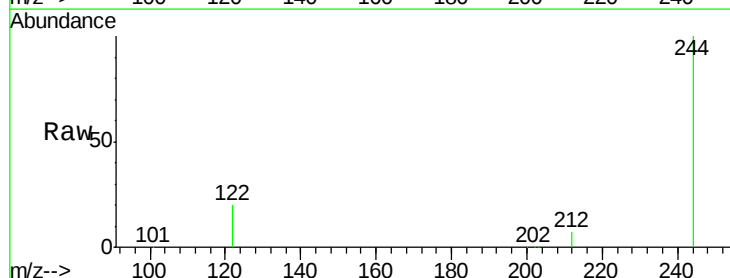
Tgt Ion: 244 Resp: 463146

Ion Ratio Lower Upper

244 100

212 6.8 5.4 8.2

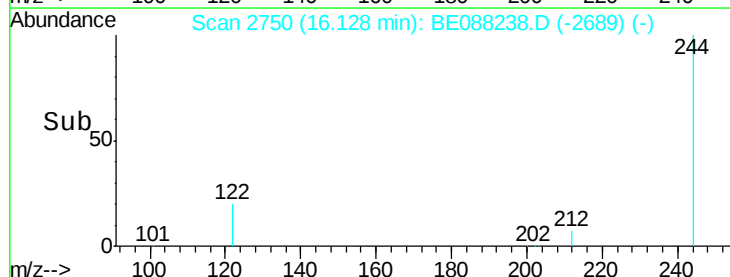
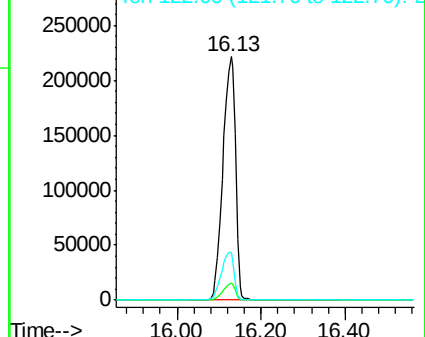
122 19.7 16.7 25.1

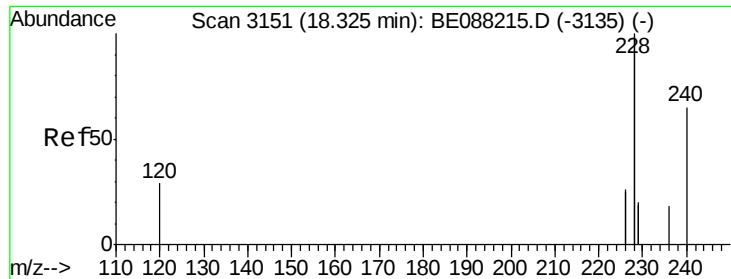


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 0.47 ng

RT: 18.32 min Scan# 3150

Delta R.T. -0.01 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

Instrument :

BNA_E

ClientSampleId :

YS19-SS42-1014

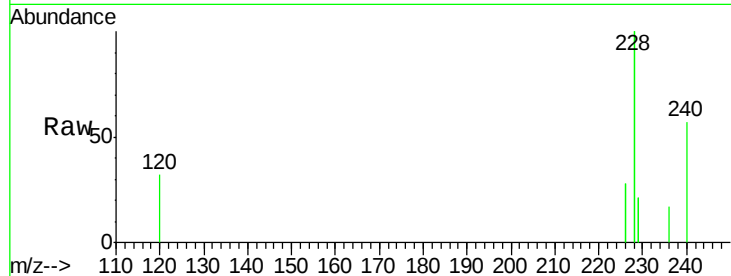
Tgt Ion:228 Resp: 18569

Ion Ratio Lower Upper

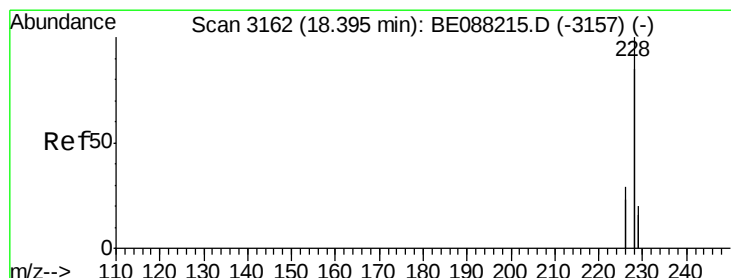
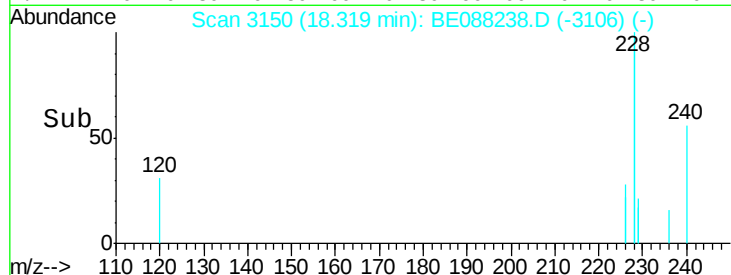
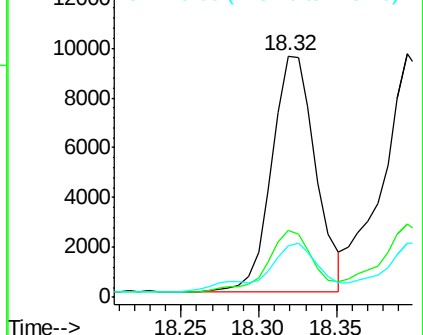
228 100

226 27.5 20.5 30.7

229 21.3 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: 0.48 ng

RT: 18.40 min Scan# 3162

Delta R.T. 0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

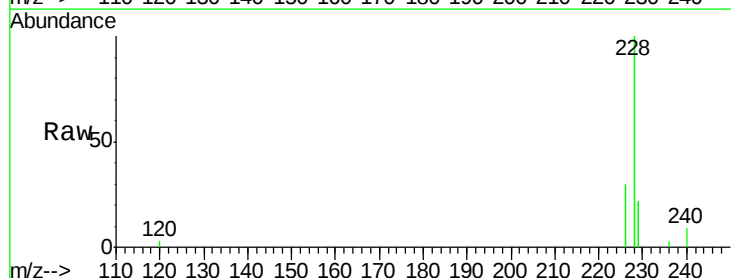
Tgt Ion:228 Resp: 21430

Ion Ratio Lower Upper

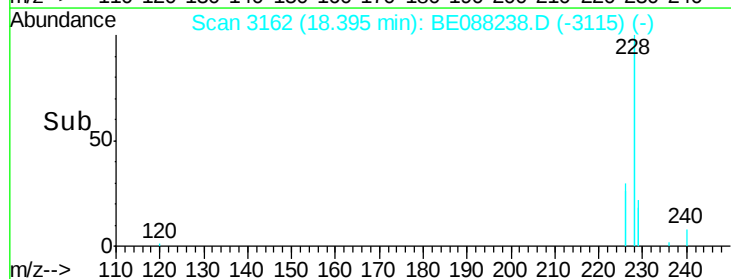
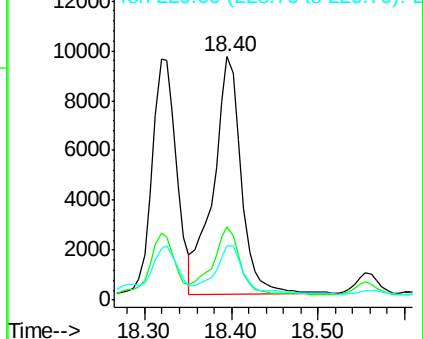
228 100

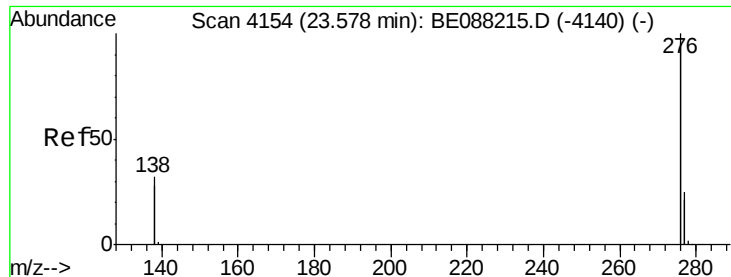
226 30.4 23.3 34.9

229 22.3 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: 0.51 ng

RT: 23.58 min Scan# 4154

Delta R.T. 0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

Instrument :

BNA_E

ClientSampleId :

YS19-SS42-1014

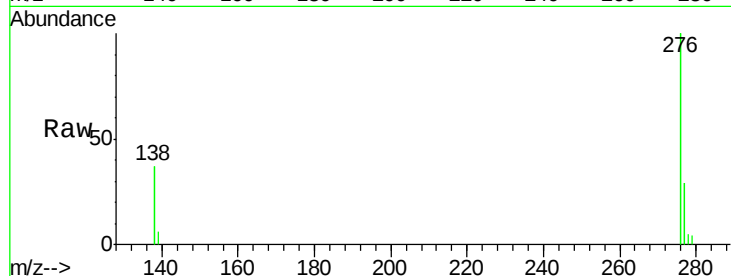
Tgt Ion:276 Resp: 12912

Ion Ratio Lower Upper

276 100

138 26.2 13.9 20.9#

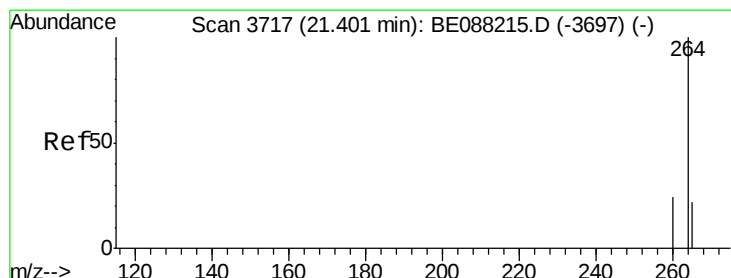
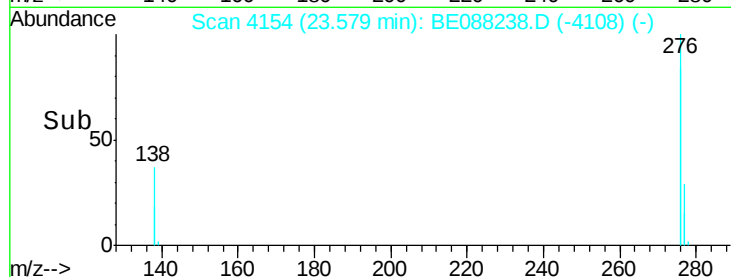
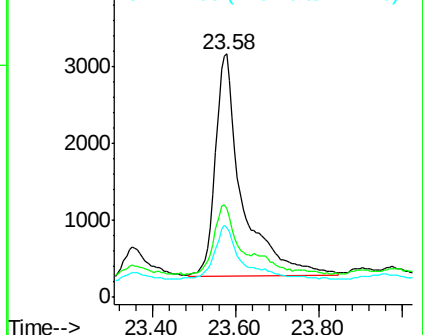
277 25.4 10.7 16.1#



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: BE088238.D

Acq: 25 Oct 2014 8:22

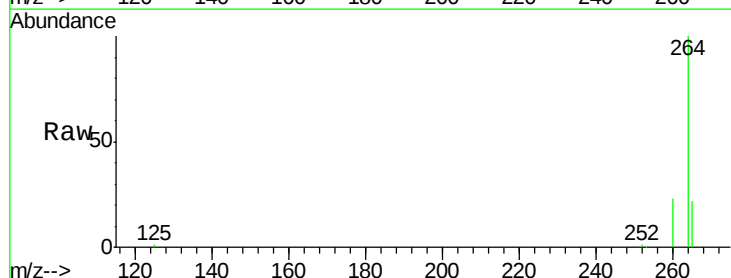
Tgt Ion:264 Resp: 43188

Ion Ratio Lower Upper

264 100

260 23.3 19.0 28.4

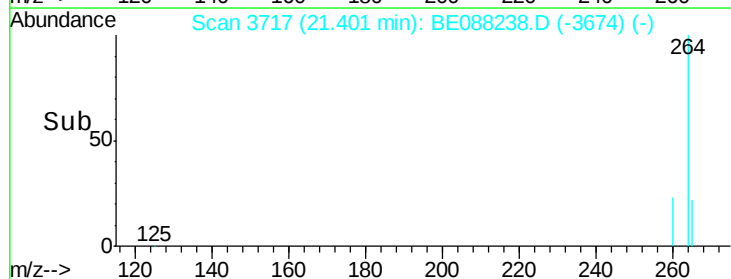
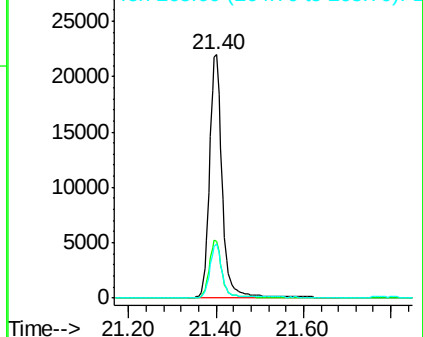
265 22.0 17.4 26.2

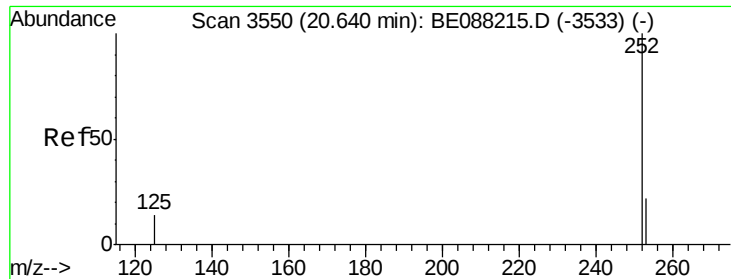


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 0.76 ng

RT: 20.64 min Scan# 3550

Delta R.T. 0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

Instrument :

BNA_E

ClientSampleId :

YS19-SS42-1014

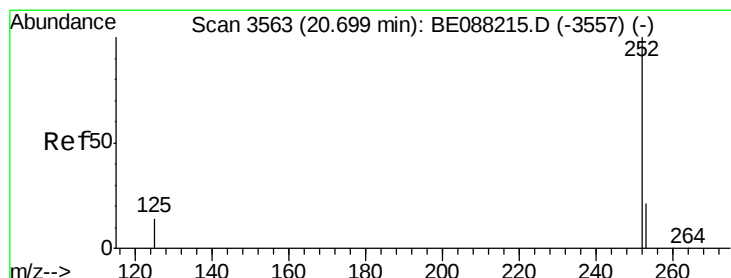
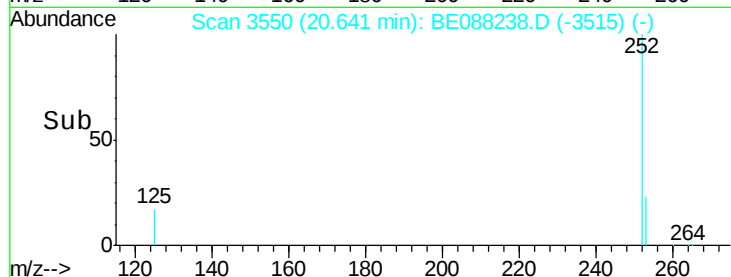
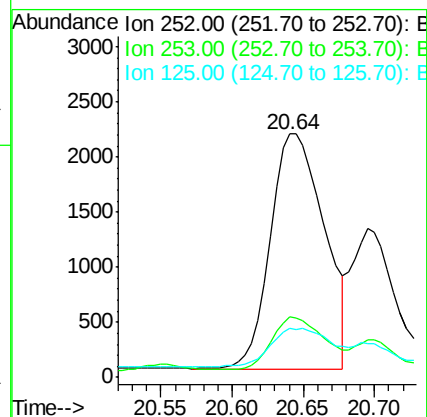
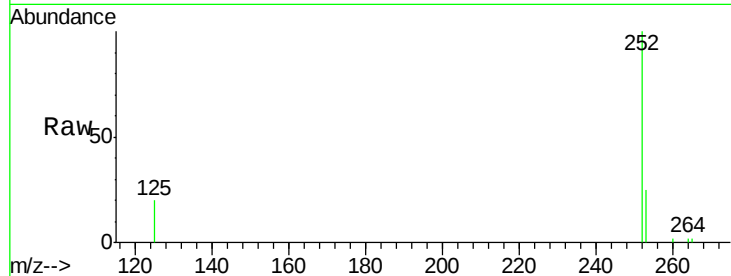
Tgt Ion: 252 Resp: 5614

Ion Ratio Lower Upper

252 100

253 24.7 17.9 26.9

125 20.1 12.2 18.2#



#24

Benzo(k)fluoranthene

Concen: 0.24 ng

RT: 20.70 min Scan# 3562

Delta R.T. -0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

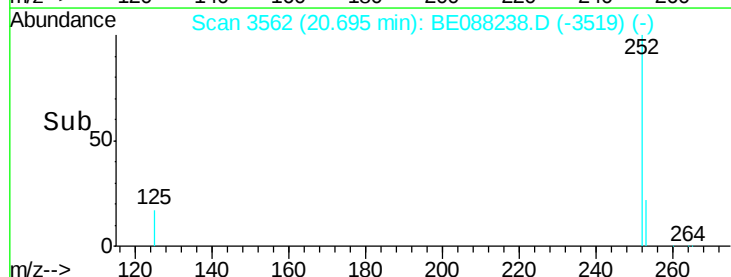
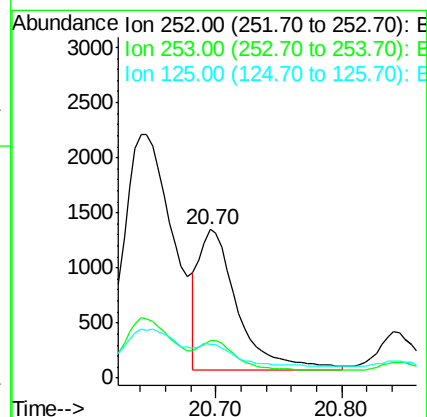
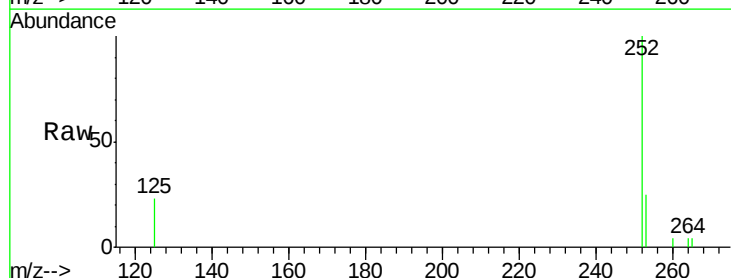
Tgt Ion: 252 Resp: 2704

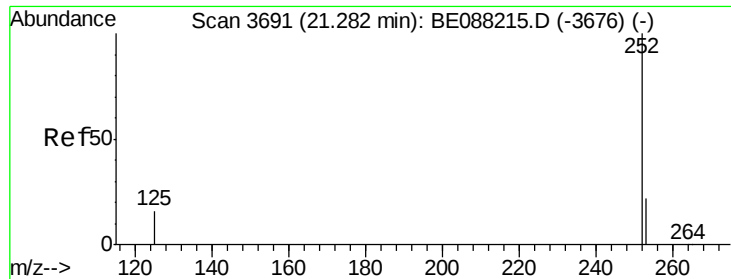
Ion Ratio Lower Upper

252 100

253 25.2 17.6 26.4

125 22.6 12.1 18.1#





#25

Benzo(a)pyrene

Concen: 0.56 ng

RT: 21.28 min Scan# 3690

Delta R.T. -0.00 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

Instrument :

BNA_E

ClientSampleId :

YS19-SS42-1014

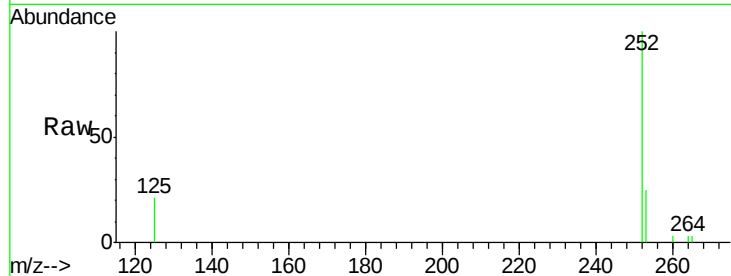
Tgt Ion: 252 Resp: 3671

Ion Ratio Lower Upper

252 100

253 25.0 17.8 26.8

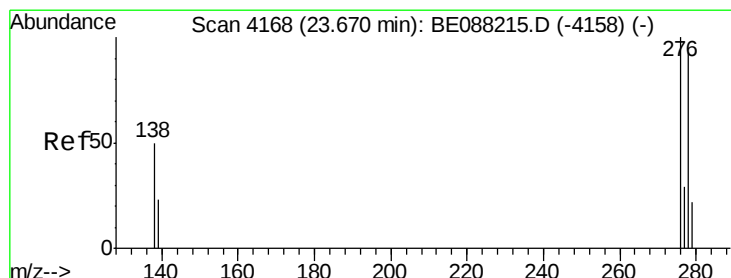
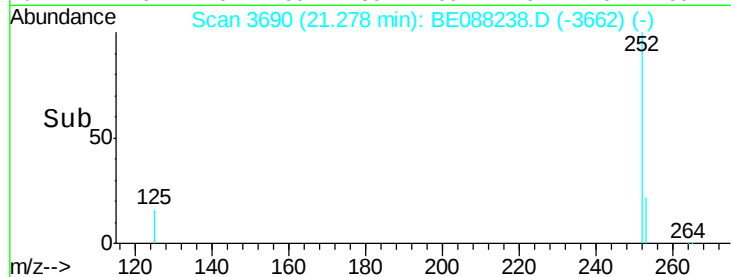
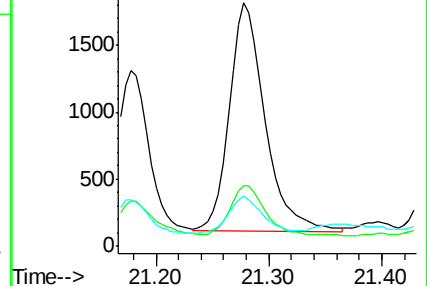
125 20.6 13.5 20.3#



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: 0.30 ng

RT: 23.66 min Scan# 4167

Delta R.T. -0.01 min

Lab File: BE088238.D

Acq: 25 Oct 2014 8:22

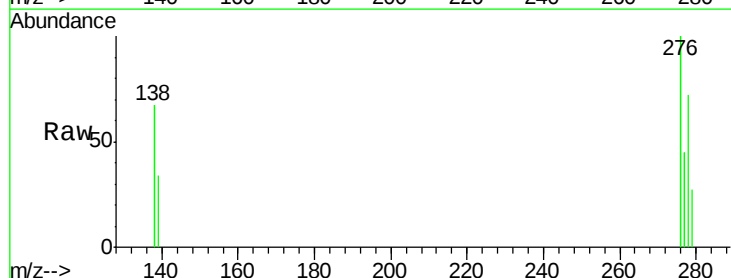
Tgt Ion: 278 Resp: 794

Ion Ratio Lower Upper

278 100

139 47.6 22.1 33.1#

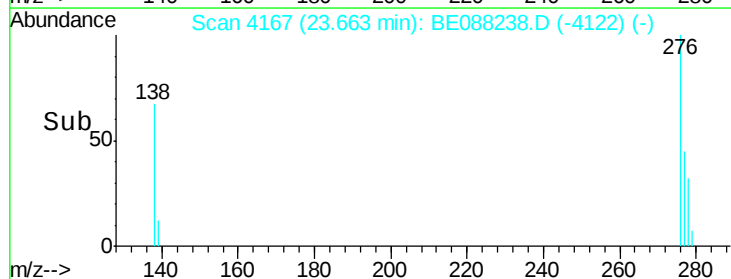
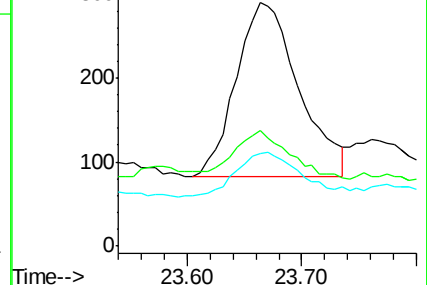
279 37.9 20.2 30.2#

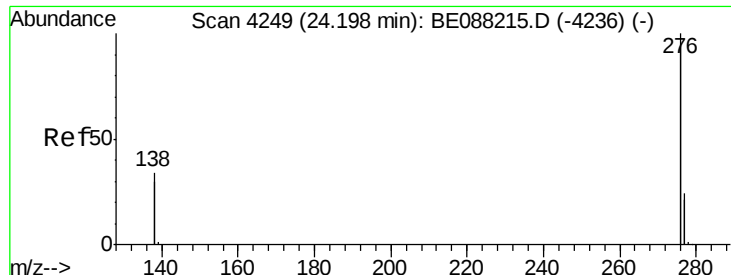


Abundance Ion 278.00 (277.70 to 278.70): E

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: 0.35 ng

RT: 24.20 min Scan# 4249

Delta R.T. 0.00 min

Lab File: BE088238.D

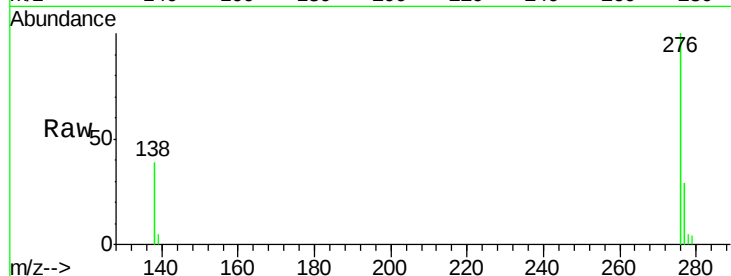
Acq: 25 Oct 2014 8:22

Instrument :

BNA_E

ClientSampleId :

YS19-SS42-1014



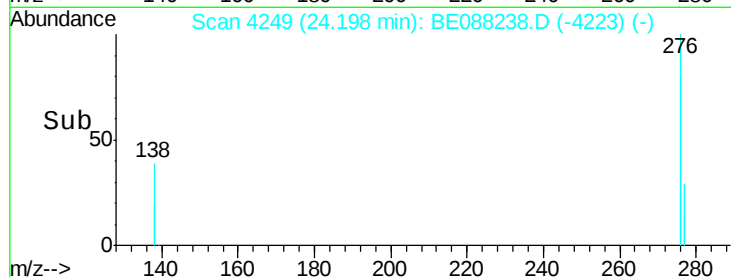
Tgt Ion: 276 Resp: 12276

Ion Ratio Lower Upper

276 100

277 29.1 19.4 29.2

138 39.3 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

