

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088162.D
 Acq On : 22 Oct 2014 3:32
 Operator : TP/JJ
 Sample : F4303-12DL 10X
 Misc : 1.5 TIME INT STD
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB03-1014DL

Quant Time: Oct 22 04:26:29 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE102014.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Tue Oct 21 02:11:14 2014
 Response via : Initial Calibration

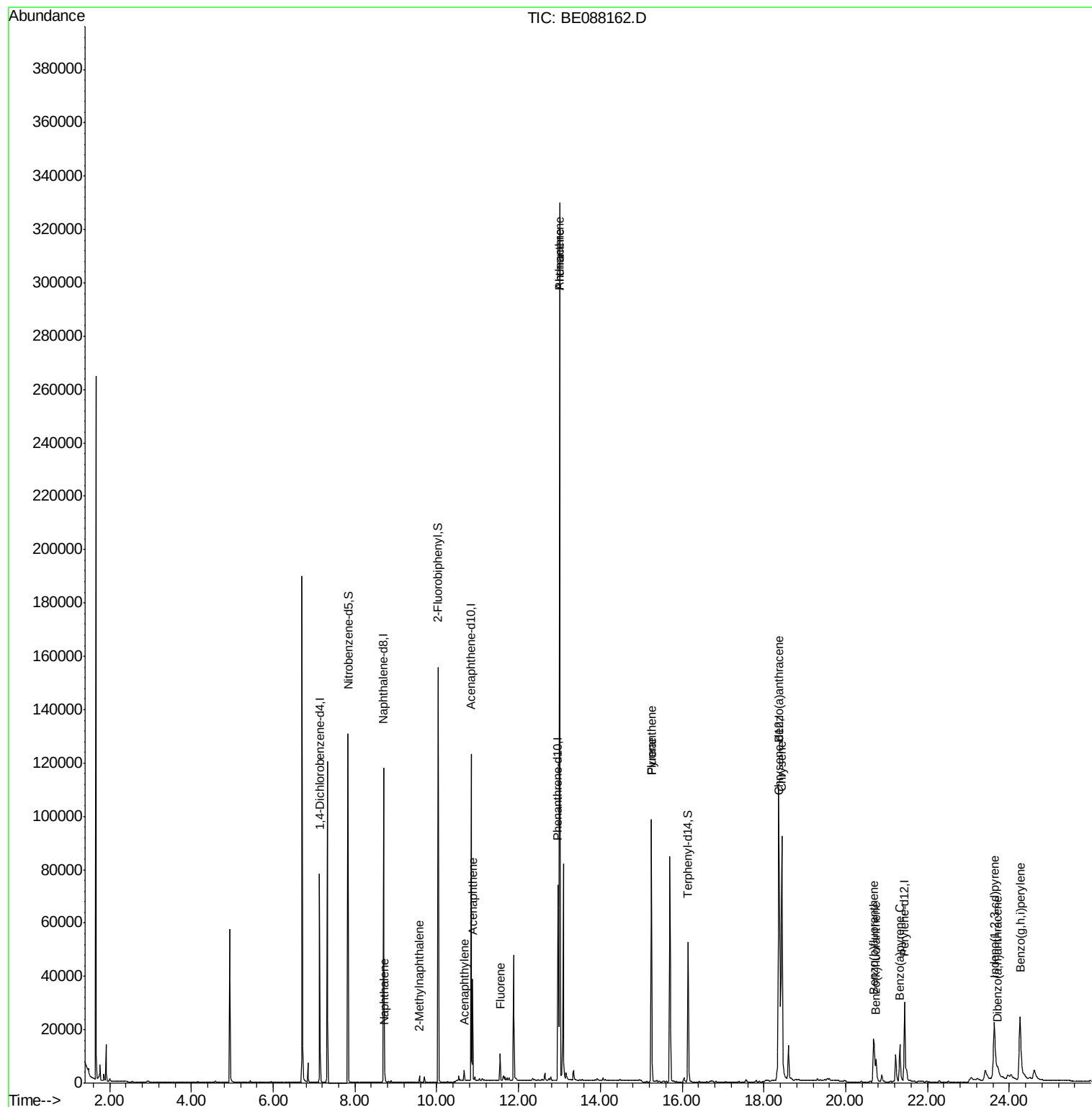
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	22361	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	88197	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	47555	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	75371	5.00	ng	0.00
16) Chrysene-d12	18.38	240	52833	5.00	ng	0.00
22) Perylene-d12	21.44	264	42444	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	55517	8.73	ng	0.00
8) 2-Fluorobiphenyl	10.03	172	88692	6.75	ng	0.00
18) Terphenyl-d14	16.15	244	66774	7.85	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	2766	0.15	ng	97
6) 2-Methylnaphthalene	9.57	142	1046	0.10	ng	96
9) Acenaphthylene	10.67	152	4330	0.06	ng	# 76
10) Acenaphthene	10.88	154	4818	0.43	ng	97
11) Fluorene	11.55	166	5669	0.48	ng	99
13) Phenanthrene	13.01	178	308843	5.59	ng	95
14) Anthracene	13.01	178	308843	5.25	ng	99
15) Fluoranthene	15.25	202	95441	6.65	ng	99
17) Pyrene	15.25	202	94895	6.61	ng	100
19) Benzo(a)anthracene	18.36	228	125040	2.66	ng	99
20) Chrysene	18.44	228	127421	2.76	ng	98
21) Indeno(1,2,3-cd)pyrene	23.63	276	56948	1.11	ng	# 85
23) Benzo(b)fluoranthene	20.69	252	29080	2.88	ng	98
24) Benzo(k)fluoranthene	20.74	252	13953	1.29	ng	98
25) Benzo(a)pyrene	21.32	252	20579	2.21	ng	97
26) Dibenzo(a,h)anthracene	23.72	278	2272	0.25	ng	# 89
27) Benzo(g,h,i)perylene	24.26	276	55768	1.38	ng	98

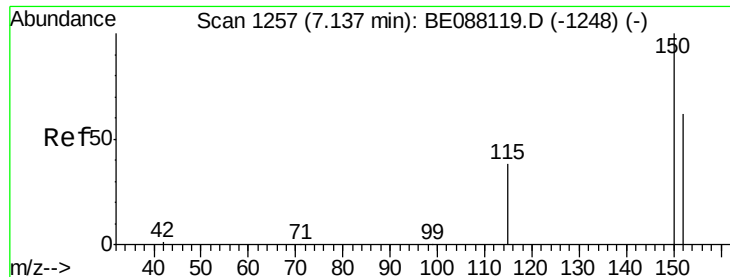
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

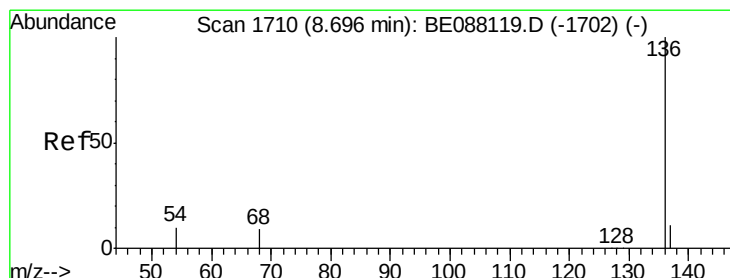
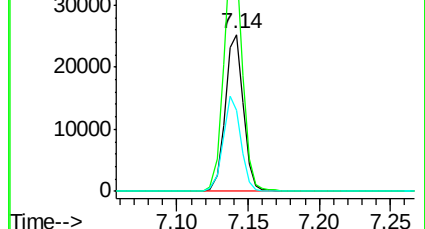
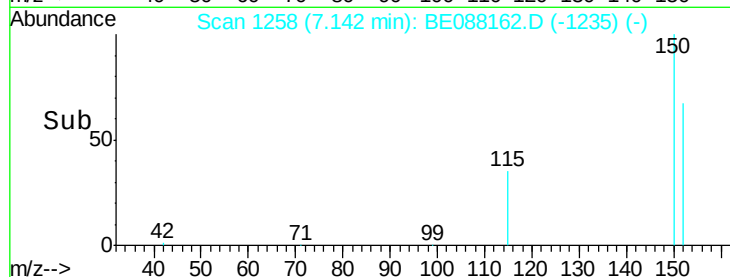
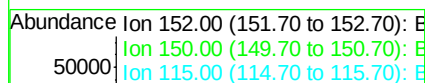
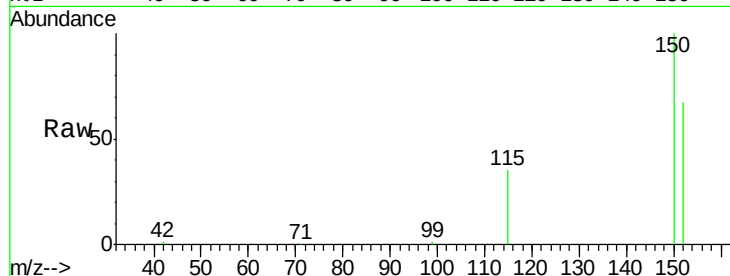
Tgt Ion:152 Resp: 22361

Ion Ratio Lower Upper

152 100

150 148.2 129.2 193.8

115 52.2 49.3 73.9



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.01 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

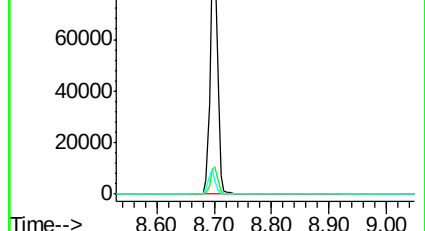
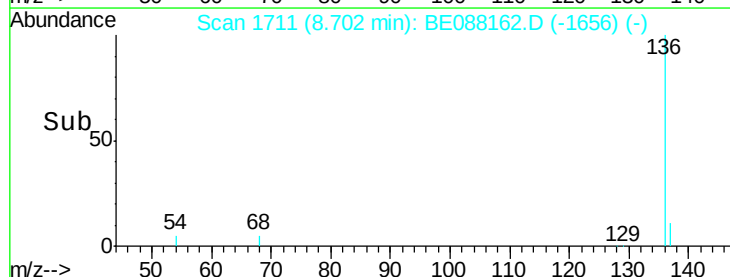
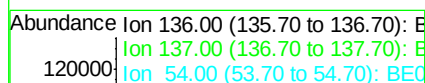
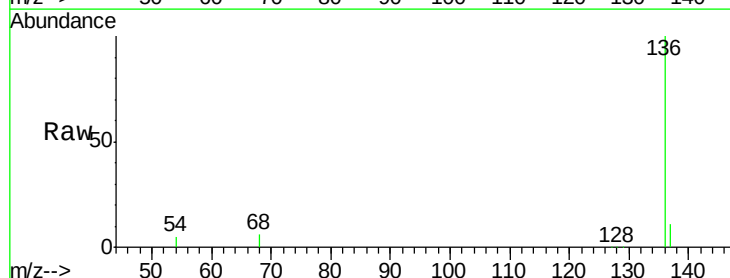
Tgt Ion:136 Resp: 88197

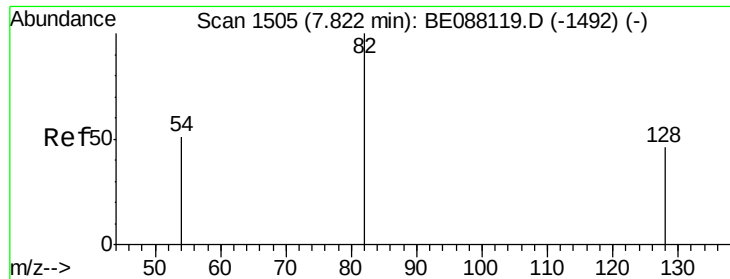
Ion Ratio Lower Upper

136 100

137 11.3 8.6 12.8

54 5.5 7.7 11.5#





#4

Nitrobenzene-d5

Concen: 8.73 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

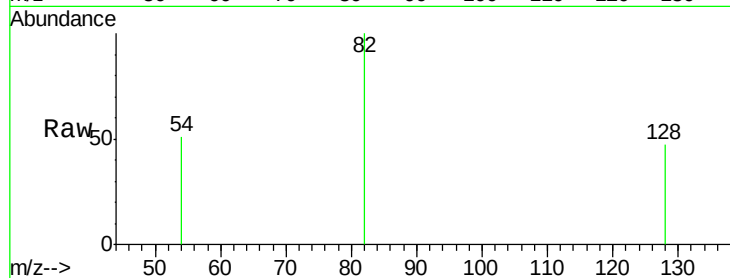
Tgt Ion: 82 Resp: 55517

Ion Ratio Lower Upper

82 100

128 47.5 37.1 55.7

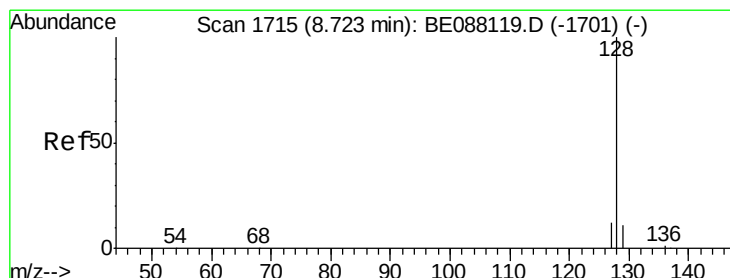
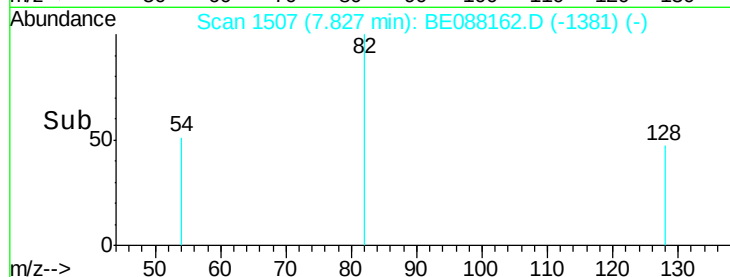
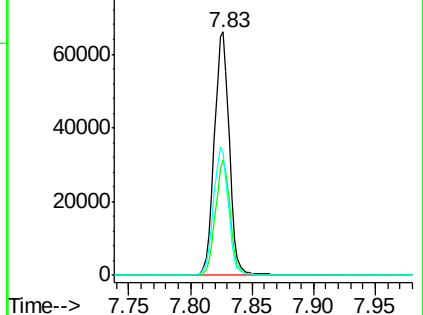
54 50.8 41.1 61.7



Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): BE0

Ion 54.00 (53.70 to 54.70): BE0



#5

Naphthalene

Concen: 0.15 ng

RT: 8.72 min Scan# 1715

Delta R.T. 0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

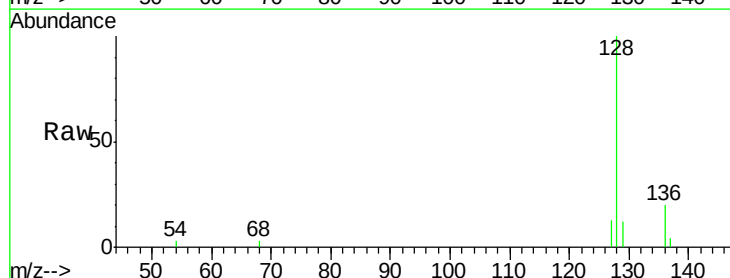
Tgt Ion: 128 Resp: 2766

Ion Ratio Lower Upper

128 100

129 12.1 8.9 13.3

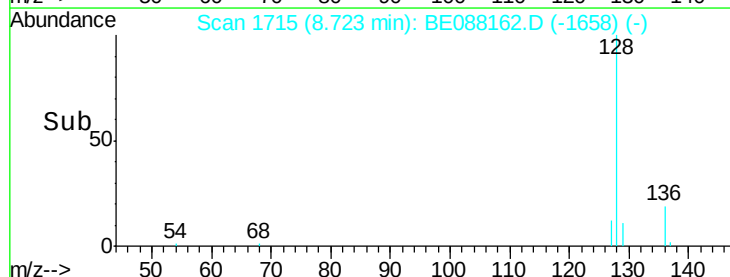
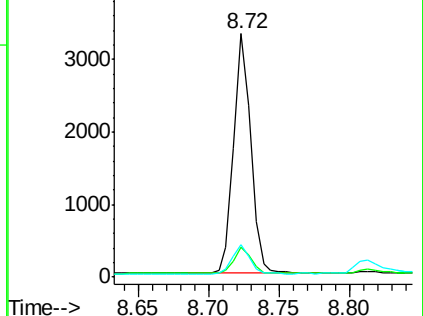
127 13.3 9.7 14.5

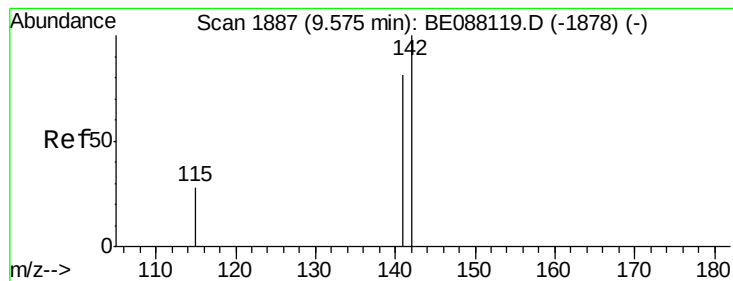


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#6

2-Methylnaphthalene

Concen: 0.10 ng

RT: 9.57 min Scan# 1887

Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

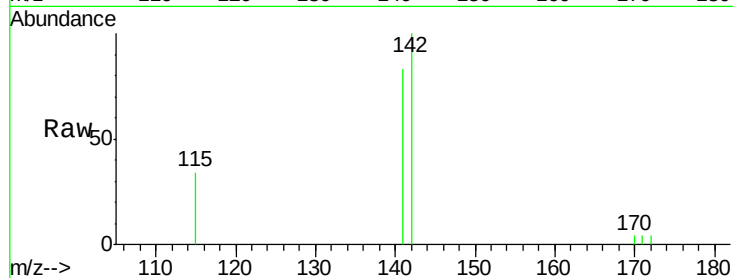
Tgt Ion:142 Resp: 1046

Ion Ratio Lower Upper

142 100

141 82.7 64.6 97.0

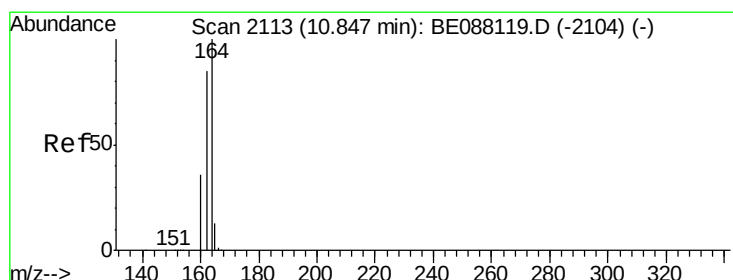
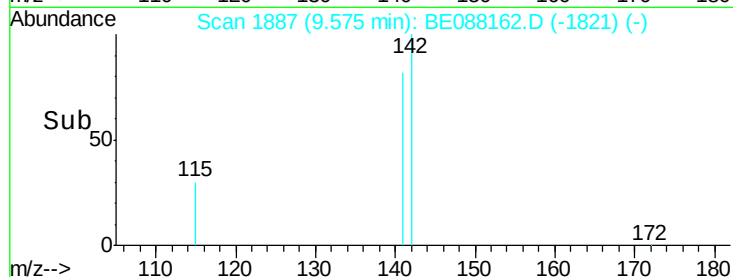
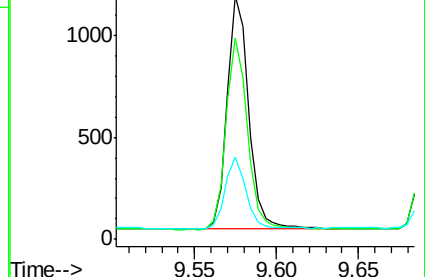
115 33.8 22.6 34.0



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: 10.85 min Scan# 2113

Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

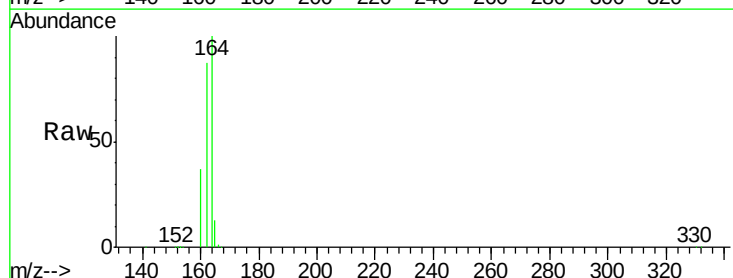
Tgt Ion:164 Resp: 47555

Ion Ratio Lower Upper

164 100

162 87.4 68.3 102.5

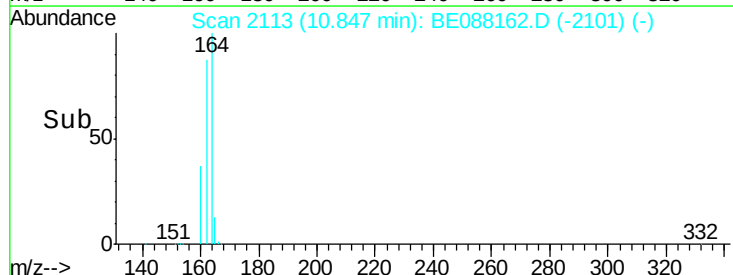
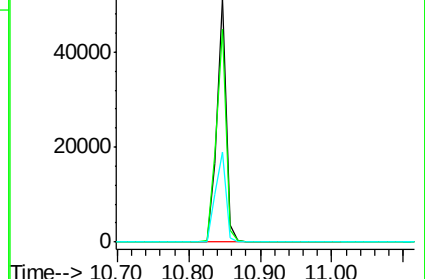
160 37.2 28.7 43.1

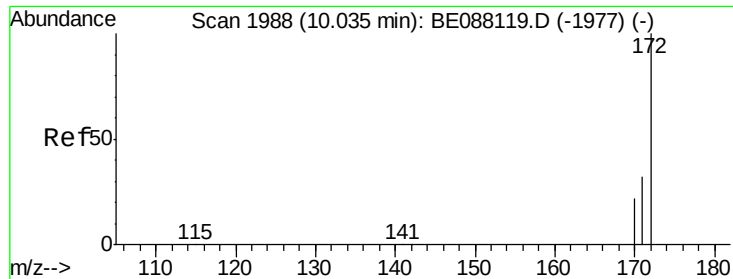


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#8

2-Fluorobiphenyl

Concen: 6.75 ng

RT: 10.03 min Scan# 1988

Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

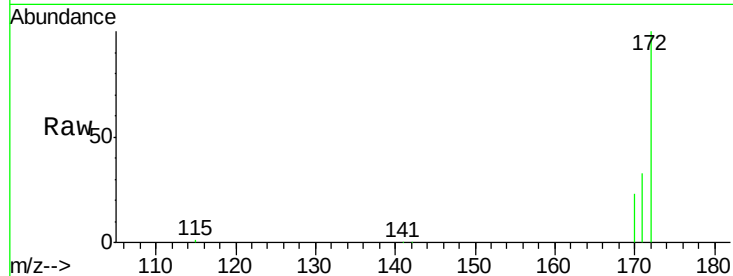
Tgt Ion:172 Resp: 88692

Ion Ratio Lower Upper

172 100

171 33.1 25.4 38.2

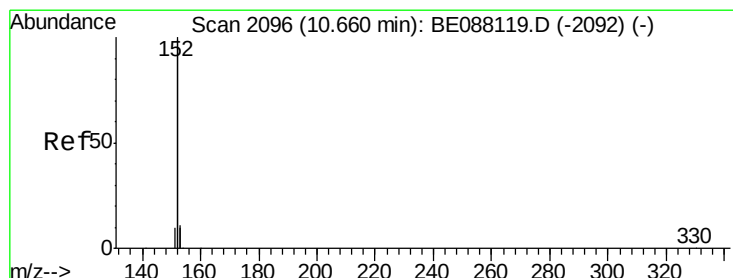
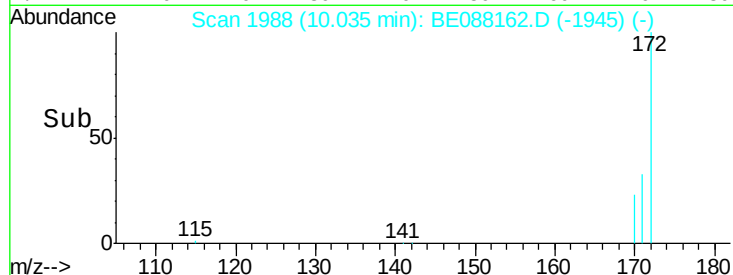
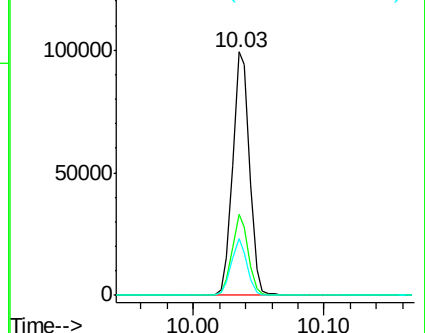
170 23.2 17.4 26.2



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: 0.06 ng

RT: 10.67 min Scan# 2097

Delta R.T. 0.01 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

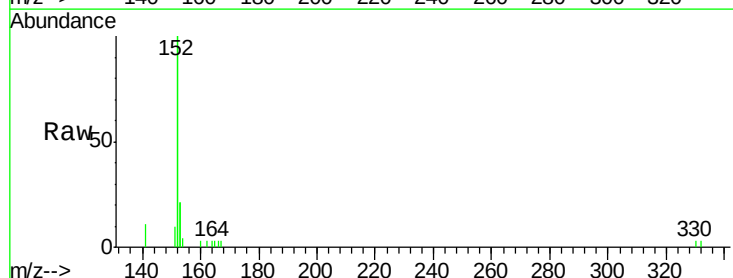
Tgt Ion:152 Resp: 4330

Ion Ratio Lower Upper

152 100

151 4.5 3.7 5.5

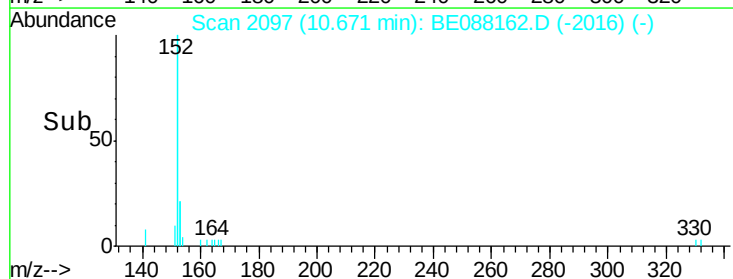
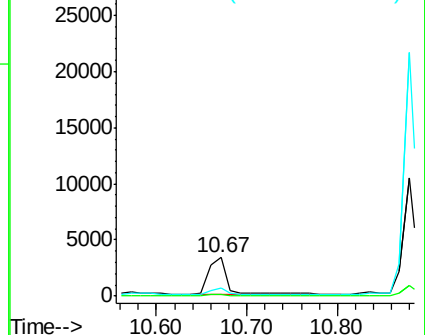
153 0.0 10.4 15.6#

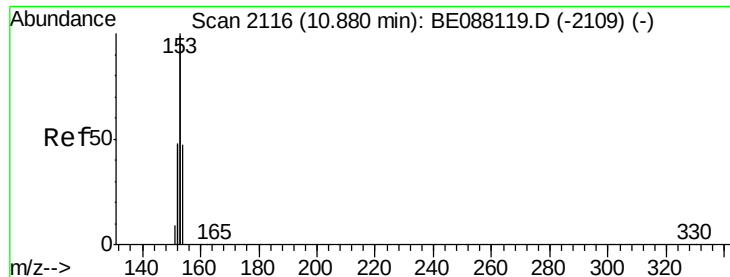


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#10

Acenaphthene

Concen: 0.43 ng

RT: 10.88 min Scan# 2116

Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

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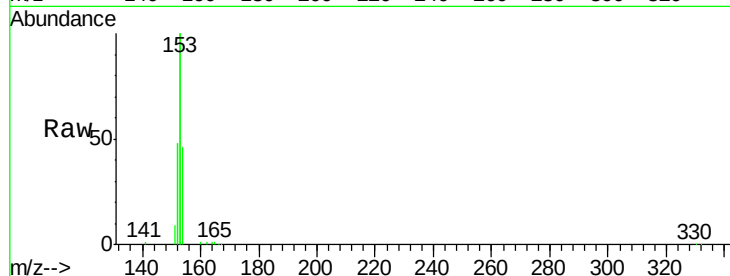
Tgt Ion:154 Resp: 4818

Ion Ratio Lower Upper

154 100

153 402.7 327.8 491.6

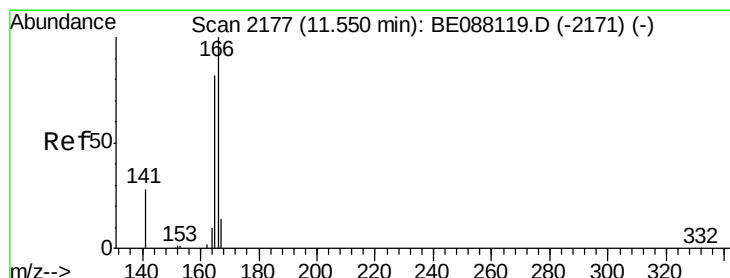
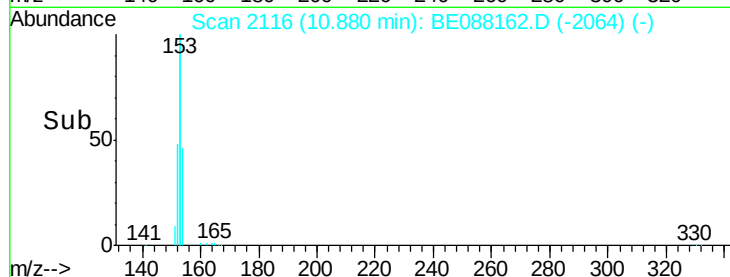
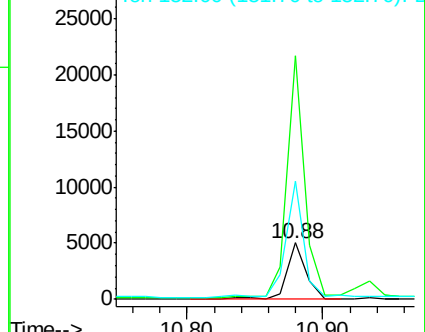
152 199.9 157.6 236.4



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: 0.48 ng

RT: 11.55 min Scan# 2177

Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

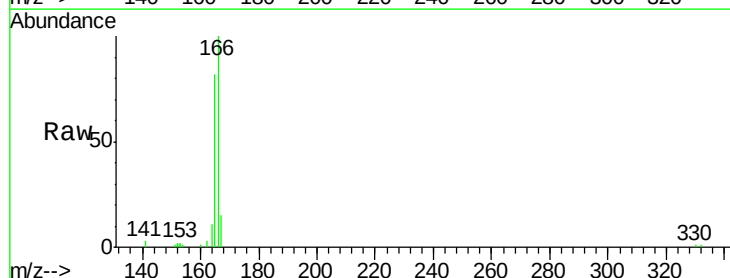
Tgt Ion:166 Resp: 5669

Ion Ratio Lower Upper

166 100

165 90.0 71.4 107.2

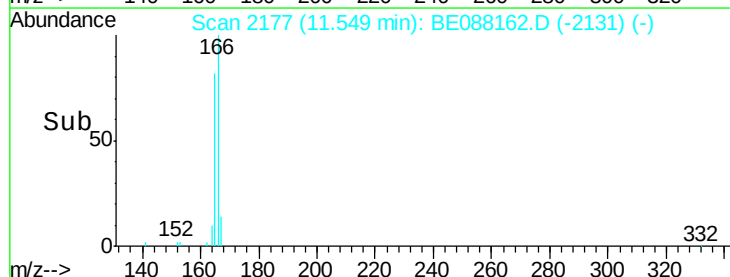
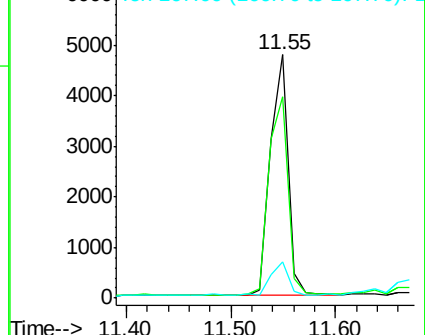
167 14.1 10.6 16.0

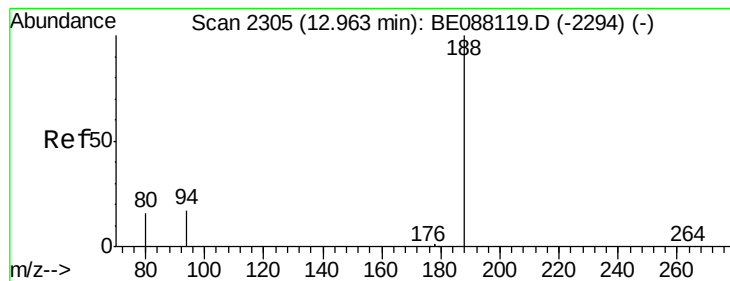


Abundance Ion 166.00 (165.70 to 166.70): E

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: 12.96 min Scan# 2305

Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Instrument :

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ClientSampleId :

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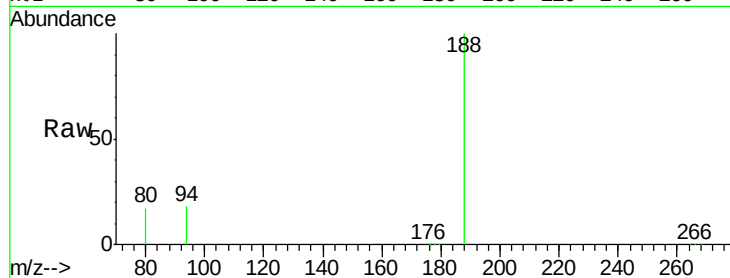
Tgt Ion:188 Resp: 75371

Ion Ratio Lower Upper

188 100

94 17.7 13.9 20.9

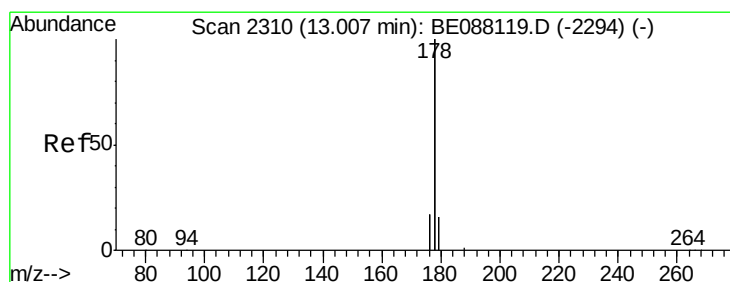
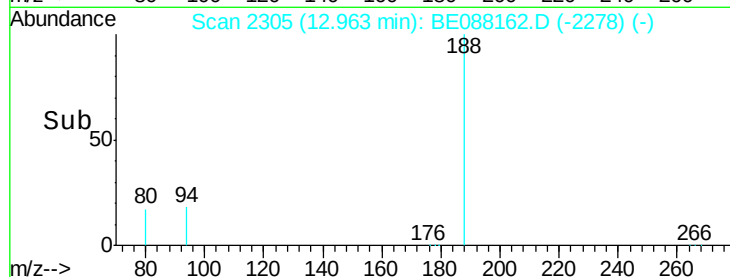
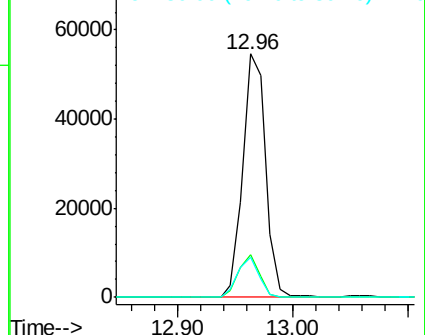
80 16.7 12.9 19.3



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: 5.59 ng

RT: 13.01 min Scan# 2310

Delta R.T. 0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

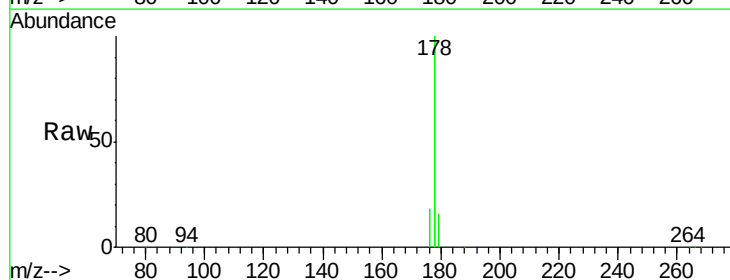
Tgt Ion:178 Resp: 308843

Ion Ratio Lower Upper

178 100

176 18.6 12.5 18.7

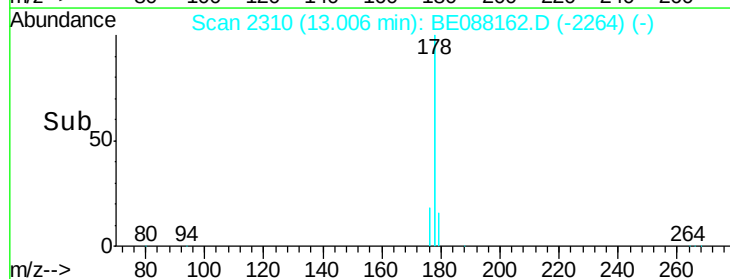
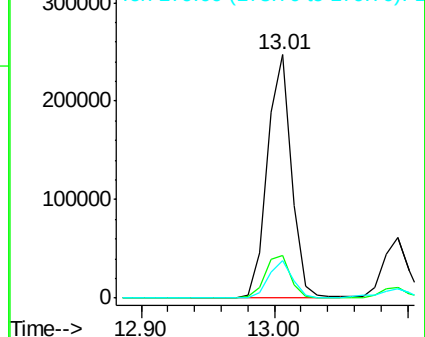
179 15.3 13.5 20.3

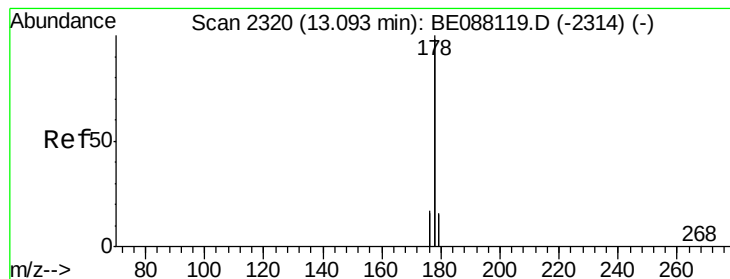


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#14

Anthracene

Concen: 5.25 ng

RT: 13.01 min Scan# 2310

Delta R.T. -0.09 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

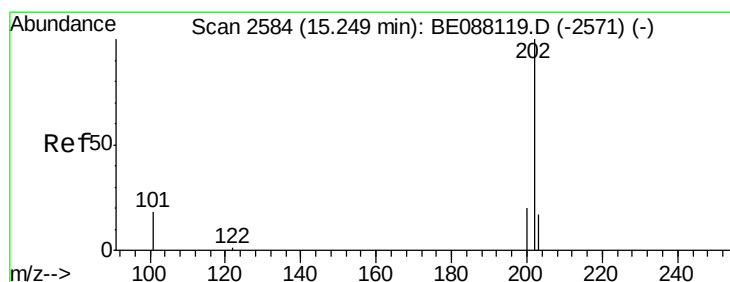
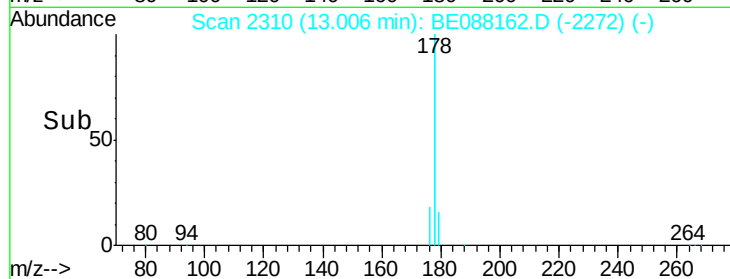
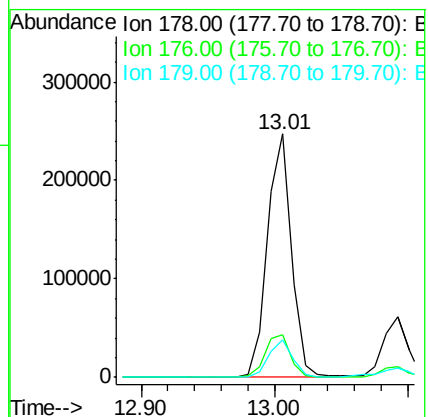
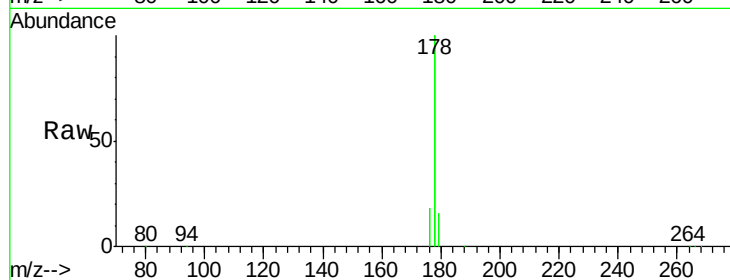
Tgt Ion:178 Resp: 308843

Ion Ratio Lower Upper

178 100

176 18.6 14.6 21.8

179 15.3 12.5 18.7



#15

Fluoranthene

Concen: 6.65 ng

RT: 15.25 min Scan# 2584

Delta R.T. 0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

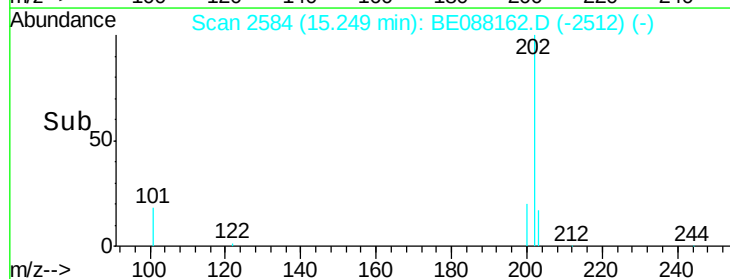
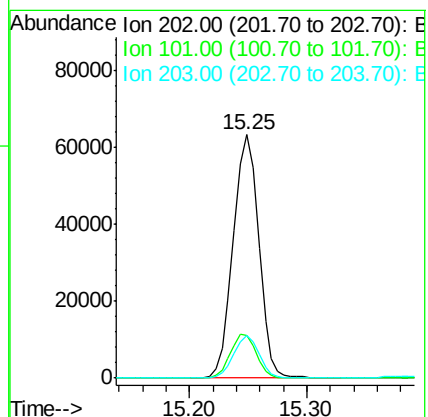
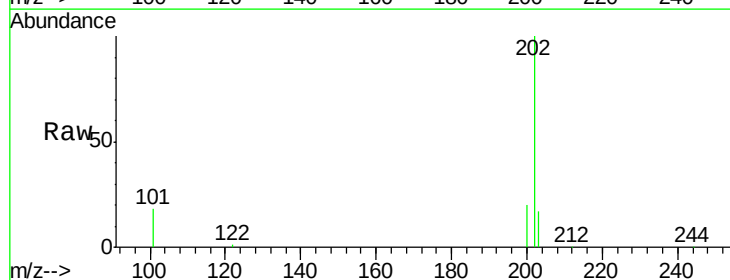
Tgt Ion:202 Resp: 95441

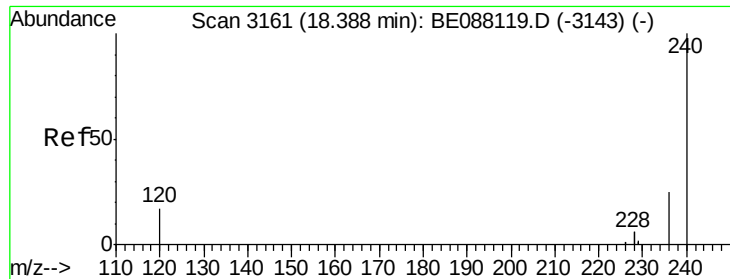
Ion Ratio Lower Upper

202 100

101 18.3 14.8 22.2

203 17.2 13.5 20.3

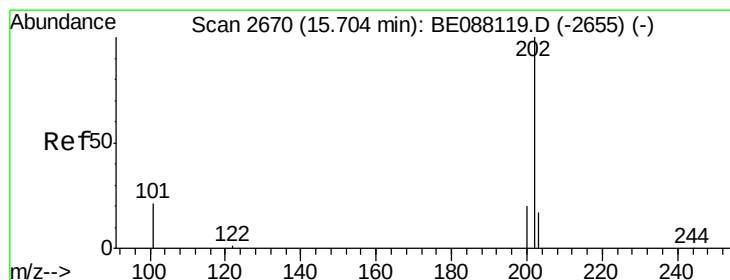
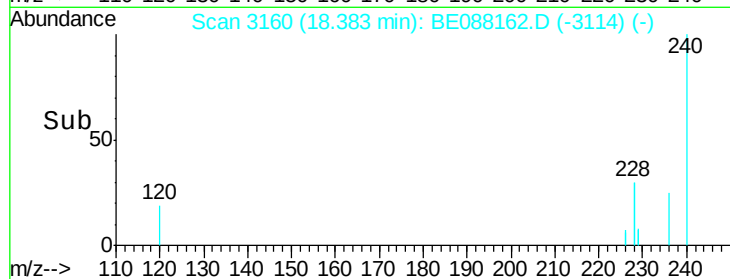
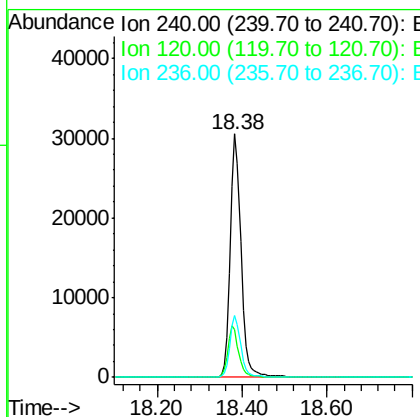
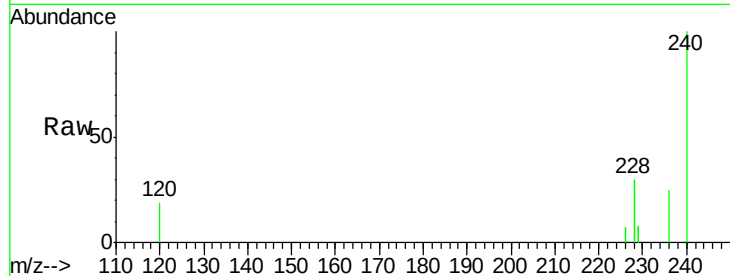




#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.38 min Scan# 3160
Delta R.T. -0.01 min
Lab File: BE088162.D
Acq: 22 Oct 2014 3:32

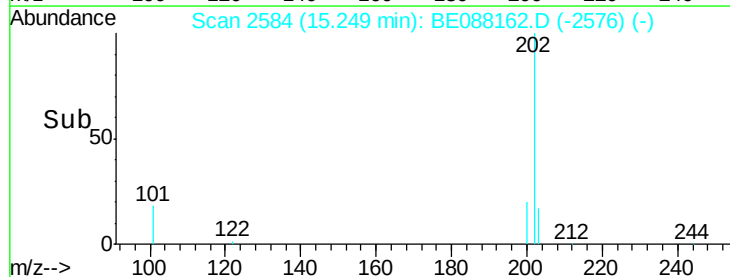
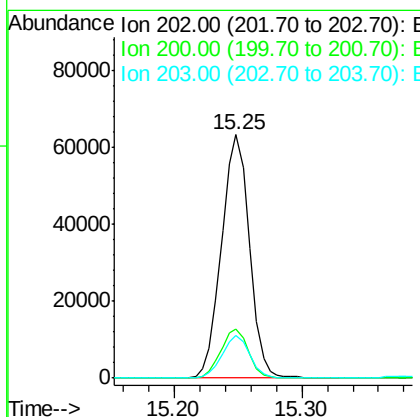
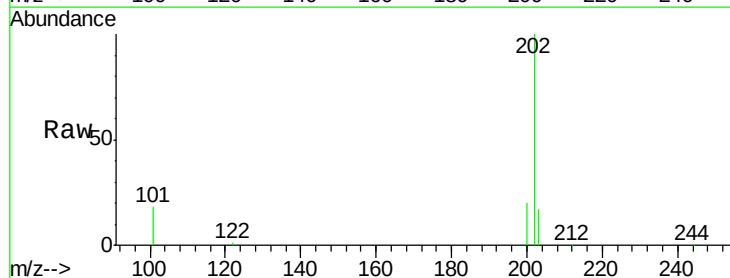
Instrument :
BNA_E
ClientSampleId :
YS19-SB03-1014DL

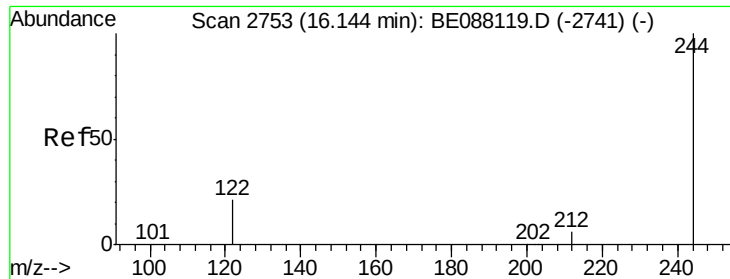
Tgt Ion:240 Resp: 52833
Ion Ratio Lower Upper
240 100
120 19.5 13.9 20.9
236 25.5 19.9 29.9



#17
Pyrene
Concen: 6.61 ng
RT: 15.25 min Scan# 2584
Delta R.T. -0.46 min
Lab File: BE088162.D
Acq: 22 Oct 2014 3:32

Tgt Ion:202 Resp: 94895
Ion Ratio Lower Upper
202 100
200 20.1 16.1 24.1
203 17.3 13.9 20.9





#18

Terphenyl-d14

Concen: 7.85 ng

RT: 16.15 min Scan# 2754

Delta R.T. 0.01 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

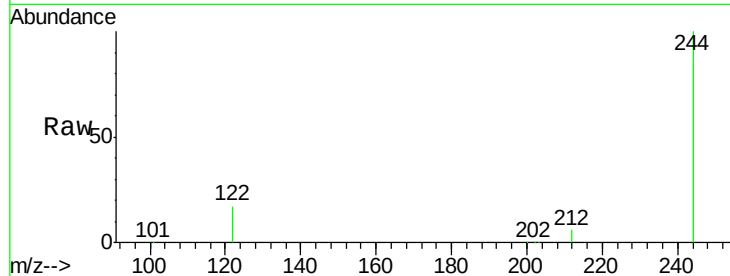
Tgt Ion:244 Resp: 66774

Ion Ratio Lower Upper

244 100

212 6.3 5.4 8.0

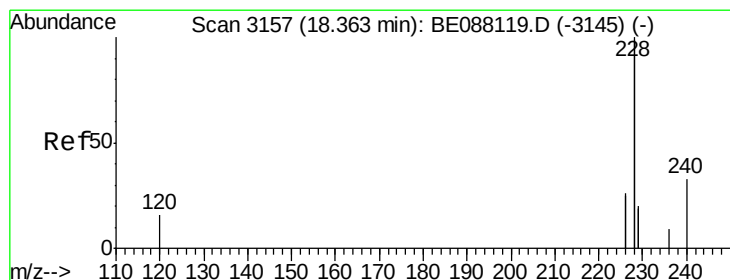
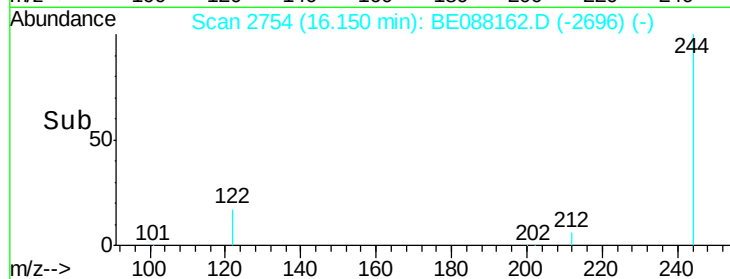
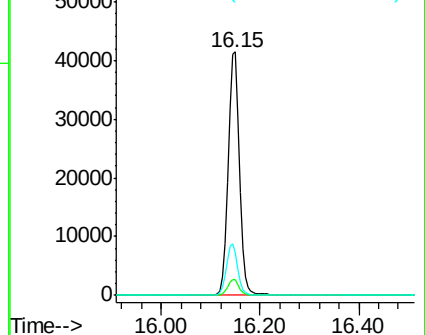
122 17.4 17.5 26.3#



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: 2.66 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

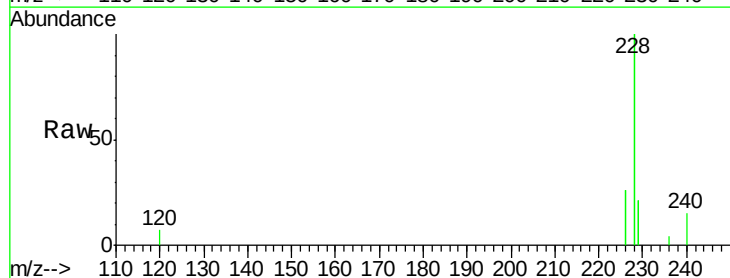
Tgt Ion:228 Resp: 125040

Ion Ratio Lower Upper

228 100

226 25.9 20.8 31.2

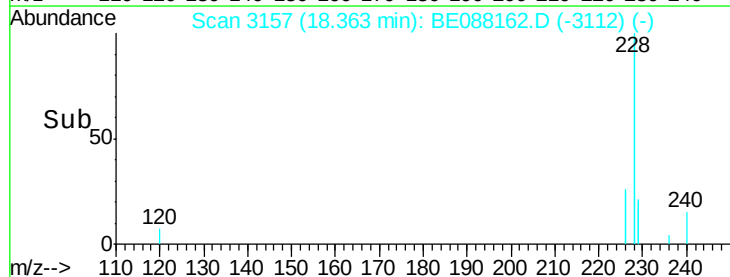
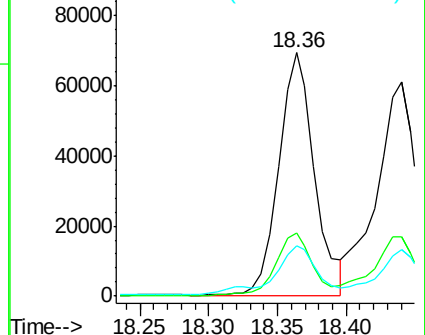
229 20.6 15.6 23.4

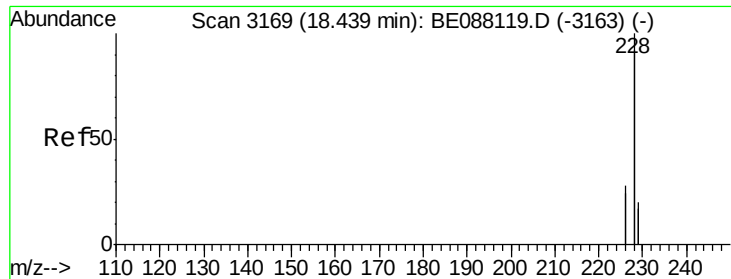


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 2.76 ng

RT: 18.44 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

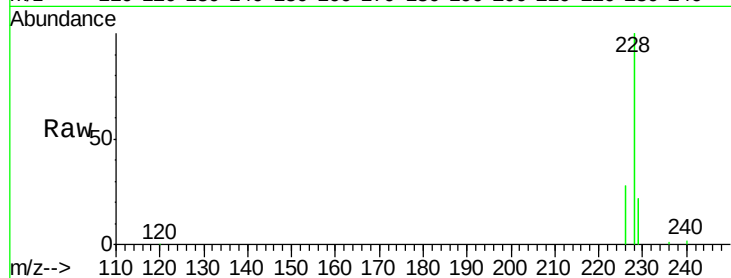
Tgt Ion:228 Resp: 127421

Ion Ratio Lower Upper

228 100

226 27.9 22.7 34.1

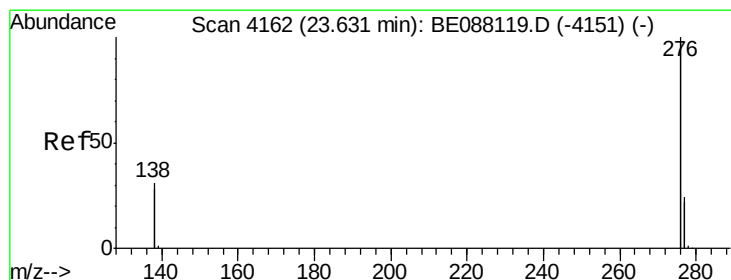
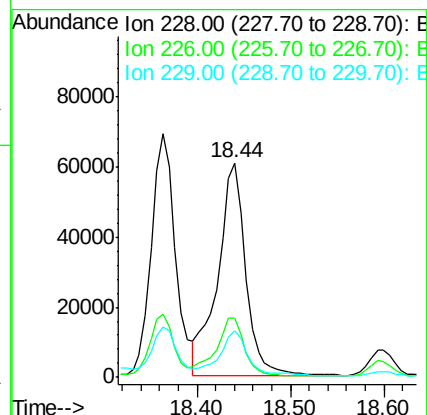
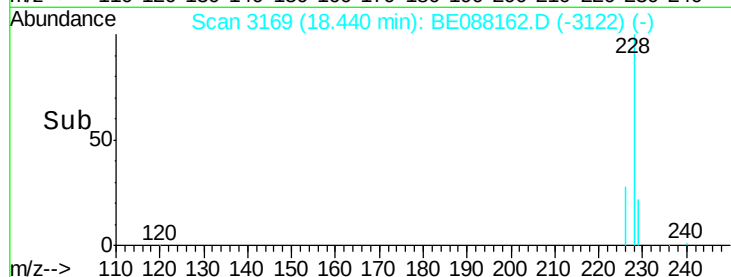
229 21.8 15.8 23.6



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: 1.11 ng

RT: 23.63 min Scan# 4162

Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

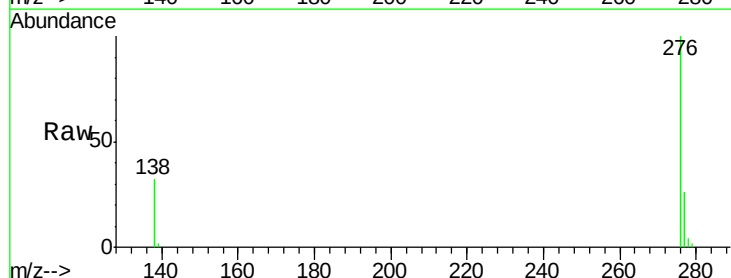
Tgt Ion:276 Resp: 56948

Ion Ratio Lower Upper

276 100

138 29.6 18.5 27.7#

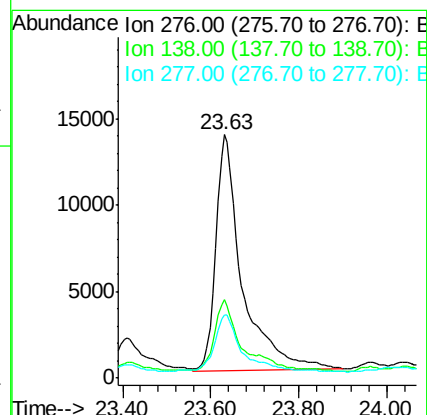
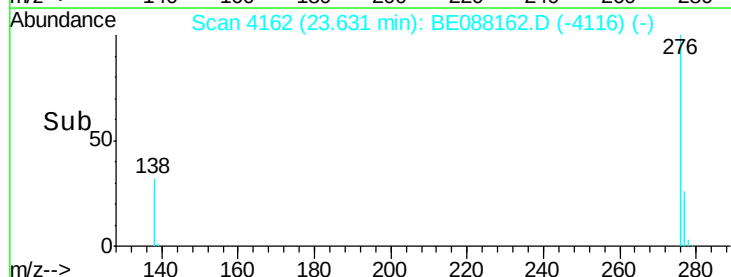
277 26.1 14.6 21.8#

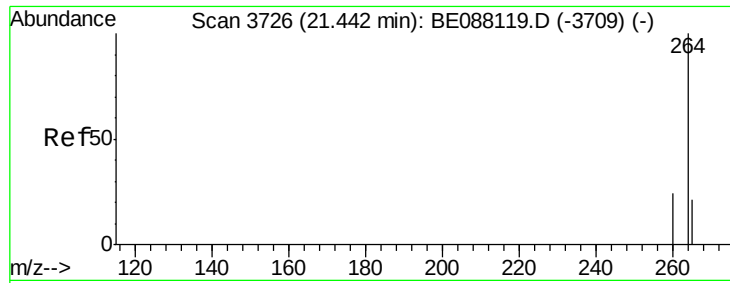


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

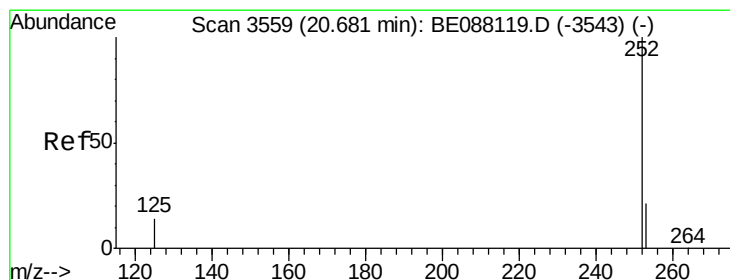
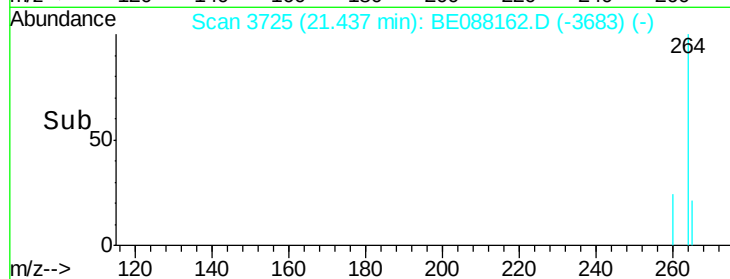
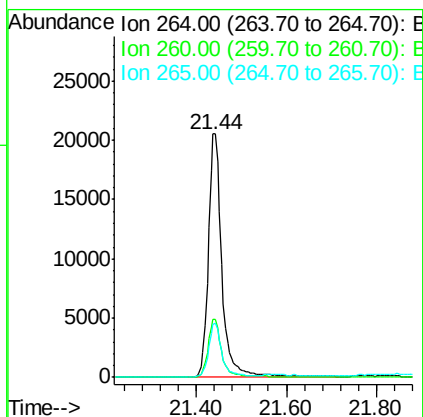
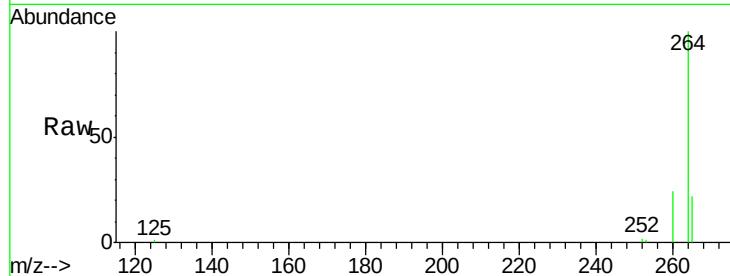




#22
Perylene-d12
 Concen: 5.00 ng
 RT: 21.44 min Scan# 3725
 Delta R.T. -0.00 min
 Lab File: BE088162.D
 Acq: 22 Oct 2014 3:32

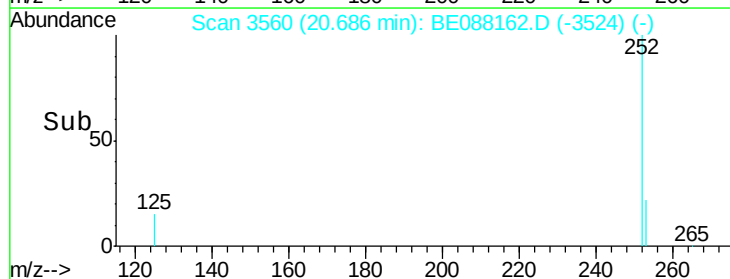
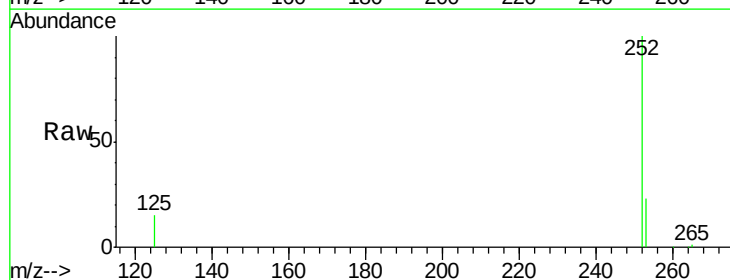
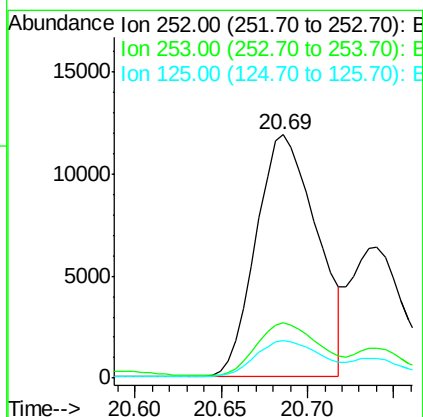
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB03-1014DL

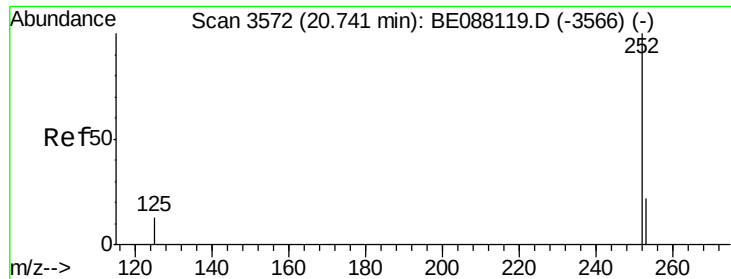
Tgt Ion: 264 Resp: 42444
 Ion Ratio Lower Upper
 264 100
 260 23.9 19.0 28.4
 265 21.7 17.2 25.8



#23
Benzo(b)fluoranthene
 Concen: 2.88 ng
 RT: 20.69 min Scan# 3560
 Delta R.T. 0.00 min
 Lab File: BE088162.D
 Acq: 22 Oct 2014 3:32

Tgt Ion: 252 Resp: 29080
 Ion Ratio Lower Upper
 252 100
 253 22.6 17.4 26.0
 125 15.3 11.8 17.8





#24

Benzo(k)fluoranthene

Concen: 1.29 ng

RT: 20.74 min Scan# 3572

Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

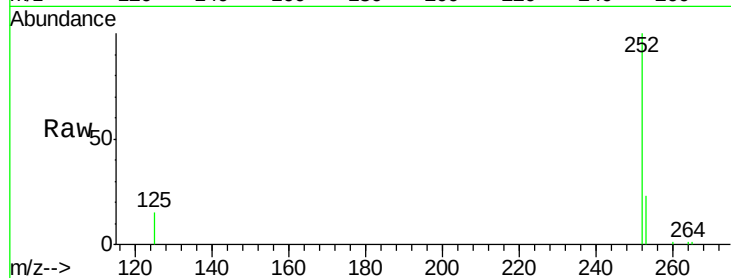
Tgt Ion:252 Resp: 13953

Ion Ratio Lower Upper

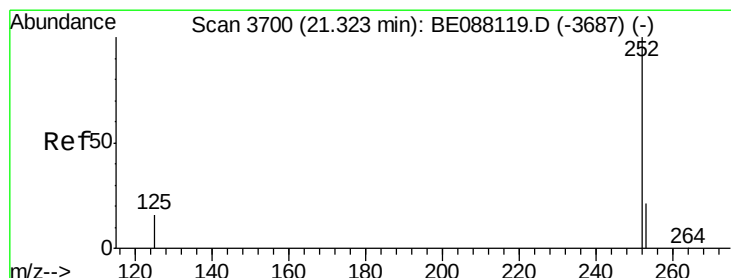
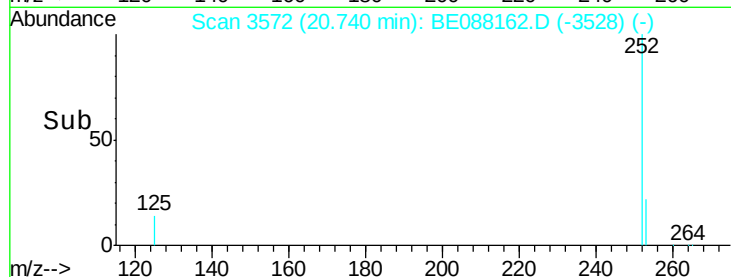
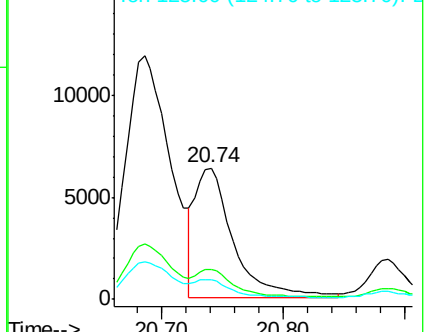
252 100

253 23.1 17.6 26.4

125 15.2 11.5 17.3



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



#25

Benzo(a)pyrene

Concen: 2.21 ng

RT: 21.32 min Scan# 3700

Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

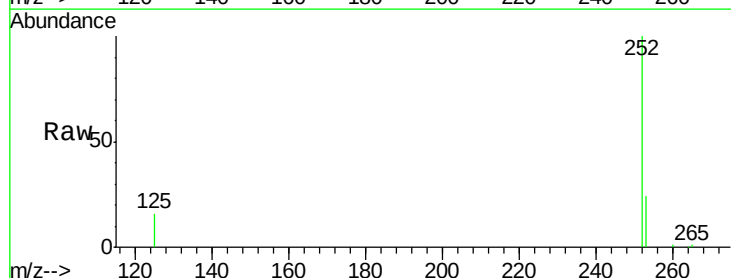
Tgt Ion:252 Resp: 20579

Ion Ratio Lower Upper

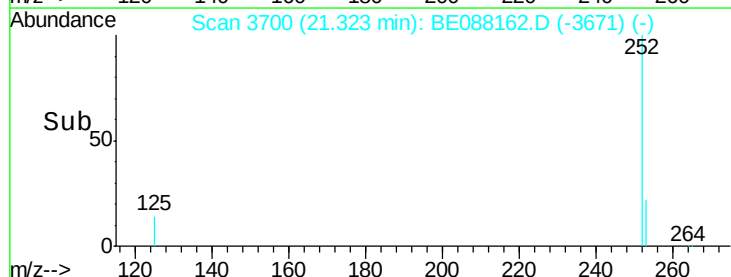
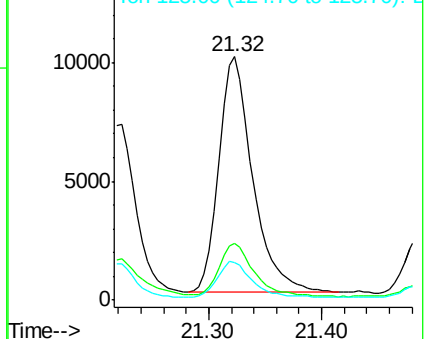
252 100

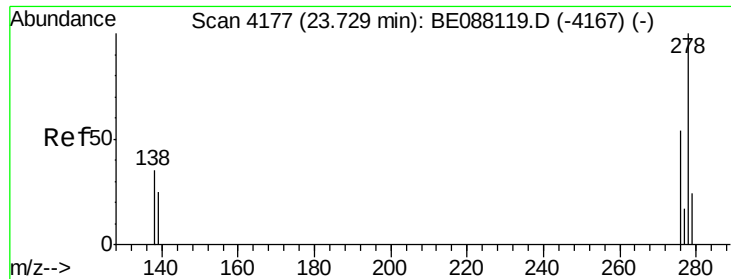
253 23.6 17.5 26.3

125 15.6 13.0 19.6



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: 0.25 ng

RT: 23.72 min Scan# 4176

Delta R.T. -0.01 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

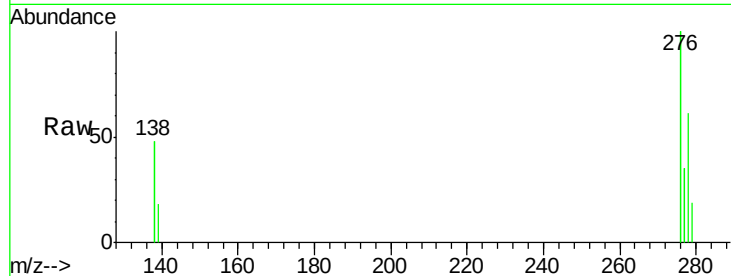
Tgt Ion: 278 Resp: 2272

Ion Ratio Lower Upper

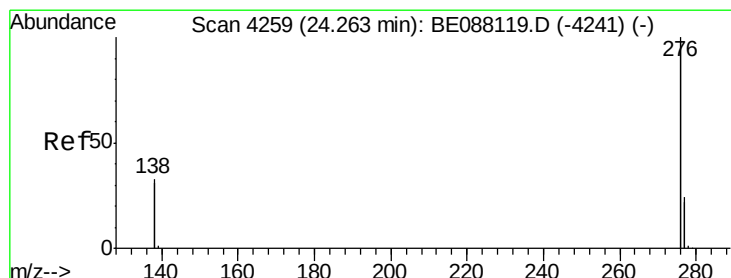
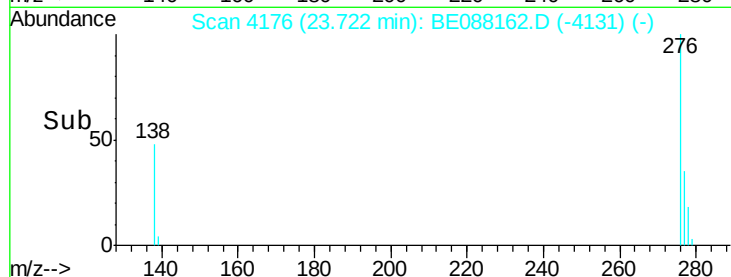
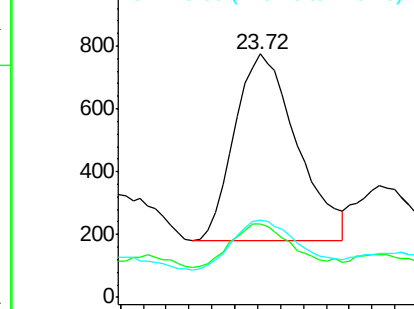
278 100

139 30.2 20.9 31.3

279 31.7 19.8 29.8#



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: 1.38 ng

RT: 24.26 min Scan# 4259

Delta R.T. -0.00 min

Lab File: BE088162.D

Acq: 22 Oct 2014 3:32

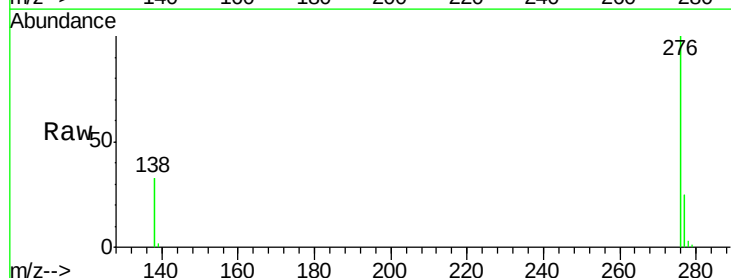
Tgt Ion: 276 Resp: 55768

Ion Ratio Lower Upper

276 100

277 25.2 19.2 28.8

138 32.6 26.6 40.0



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

