

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
 Data File : BE088174.D
 Acq On : 22 Oct 2014 10:15
 Operator : TP/JJ
 Sample : F4312-11 2X
 Misc :
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB27-1014

Quant Time: Oct 22 11:25:21 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

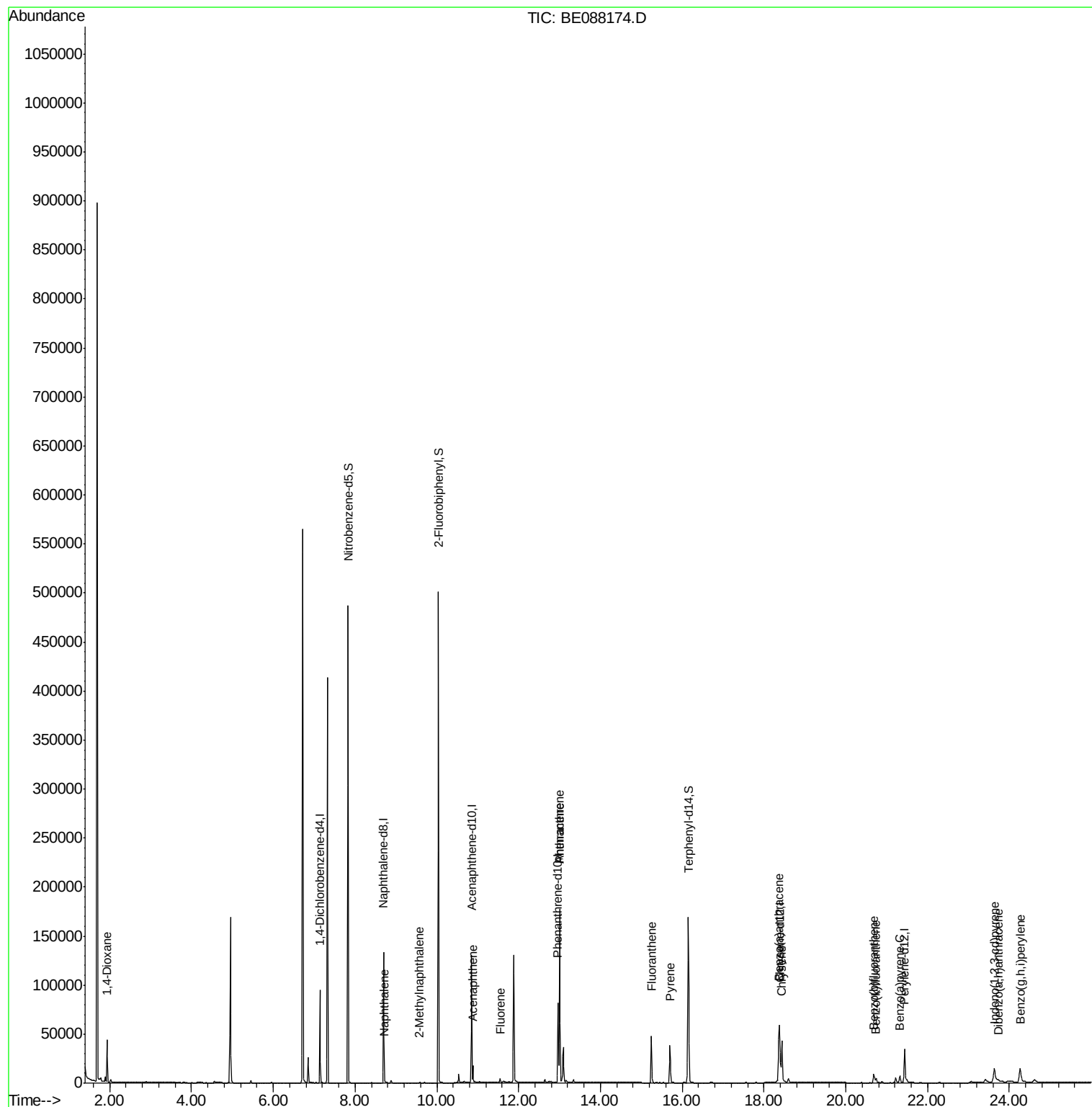
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	25627	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	97109	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	50813	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	78762	5.00	ng	0.00
16) Chrysene-d12	18.38	240	49728	5.00	ng	0.00
22) Perylene-d12	21.44	264	46621	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	216446	30.92	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	305885	21.79	ng	0.00
18) Terphenyl-d14	16.15	244	229586	28.69	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	1.94	88	1398	0.38	ng	# 1
5) Naphthalene	8.72	128	886	0.04	ng	# 90
6) 2-Methylnaphthalene	9.58	142	357	0.03	ng	# 93
10) Acenaphthene	10.88	154	2156	0.18	ng	89
11) Fluorene	11.55	166	2151	0.17	ng	99
13) Phenanthrene	13.01	178	168062	2.80	ng	95
14) Anthracene	13.01	178	168062	2.73	ng	100
15) Fluoranthene	15.25	202	44810	2.99	ng	99
17) Pyrene	15.70	202	35460	2.62	ng	96
19) Benzo(a)anthracene	18.36	228	56889	1.29	ng	98
20) Chrysene	18.44	228	60544	1.40	ng	97
21) Indeno(1,2,3-cd)pyrene	23.64	276	31228	0.65	ng	# 89
23) Benzo(b)fluoranthene	20.69	252	15885	1.43	ng	97
24) Benzo(k)fluoranthene	20.74	252	6791	0.57	ng	96
25) Benzo(a)pyrene	21.32	252	10609	1.04	ng	97
26) Dibenzo(a,h)anthracene	23.73	278	1566	0.16	ng	# 85
27) Benzo(g,h,i)perylene	24.26	276	30995	0.70	ng	98

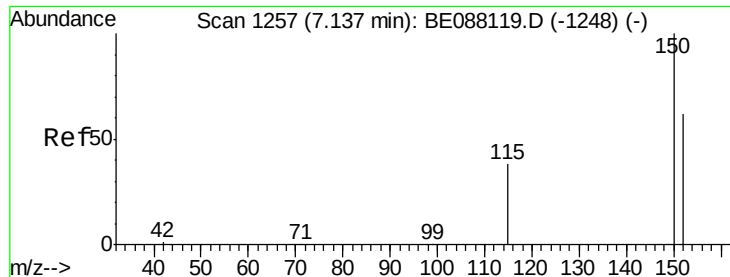
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088174.D

Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

ClientSampleId :

YS19-SB27-1014

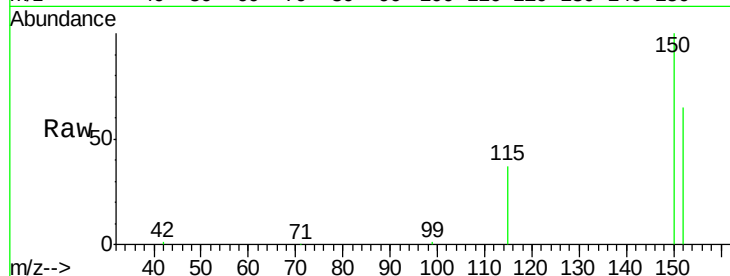
Tgt Ion:152 Resp: 25627

Ion Ratio Lower Upper

152 100

150 154.8 129.2 193.8

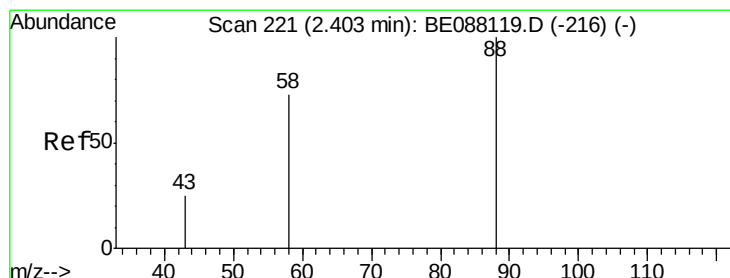
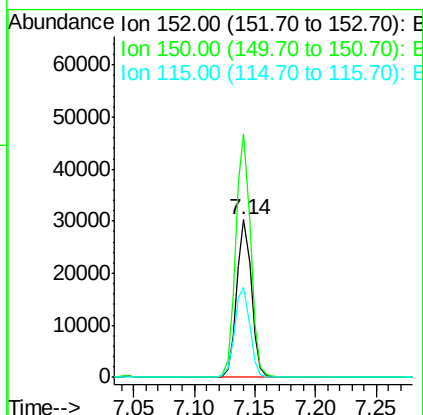
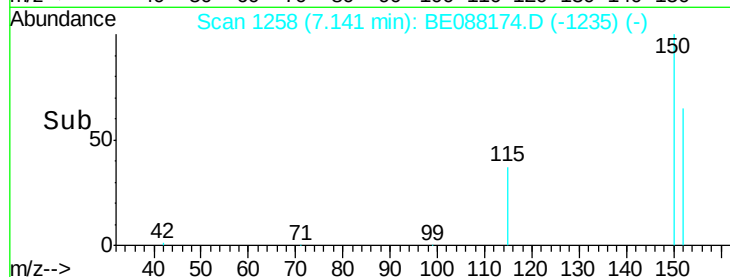
115 57.6 49.3 73.9



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: 0.38 ng

RT: 1.94 min Scan# 119

Delta R.T. -0.47 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

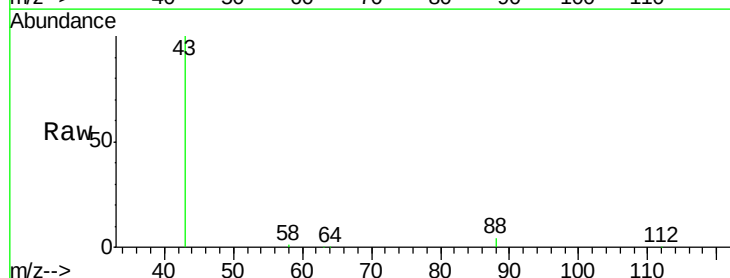
Tgt Ion: 88 Resp: 1398

Ion Ratio Lower Upper

88 100

58 24.5 59.5 89.3#

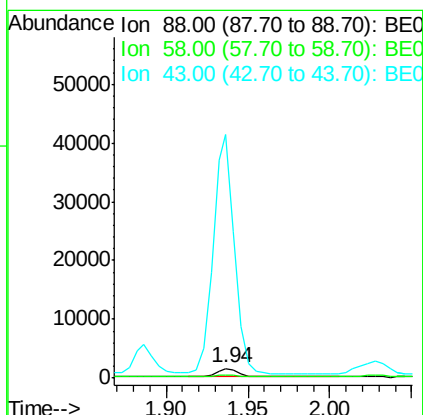
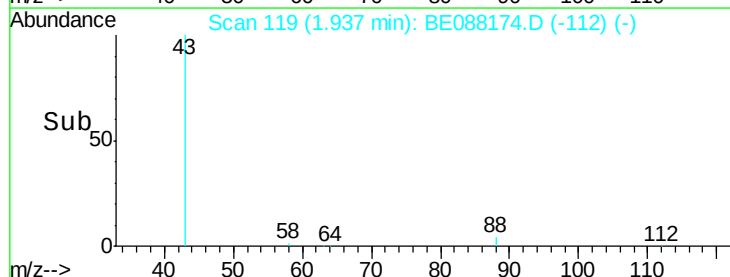
43 2637.7 21.2 31.8#

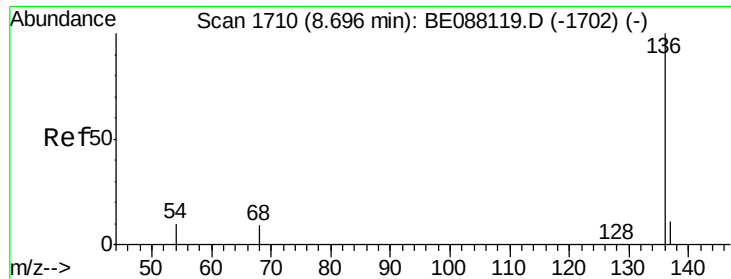


Abundance Ion 88.00 (87.70 to 88.70): BE0

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: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

ClientSampleId :

YS19-SB27-1014

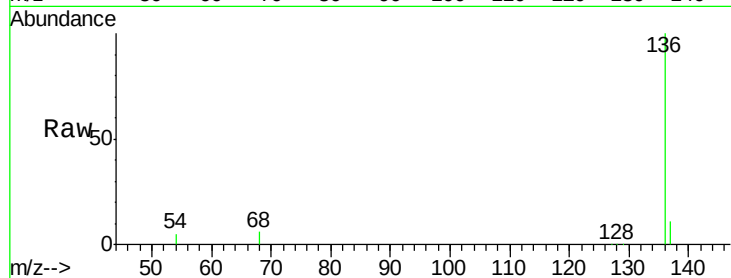
Tgt Ion:136 Resp: 97109

Ion Ratio Lower Upper

136 100

137 11.4 8.6 12.8

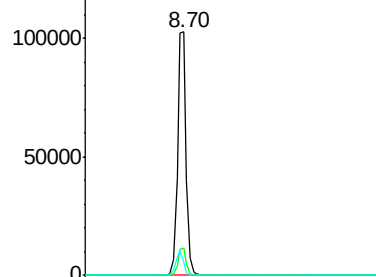
54 5.5 7.7 11.5#



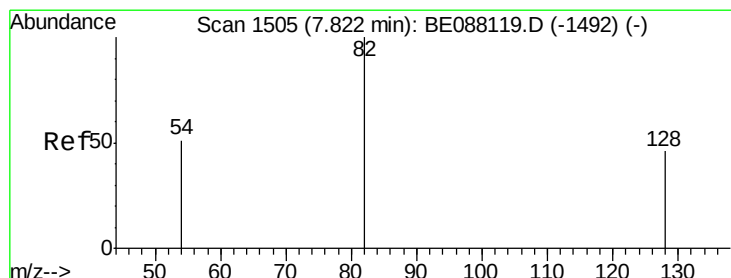
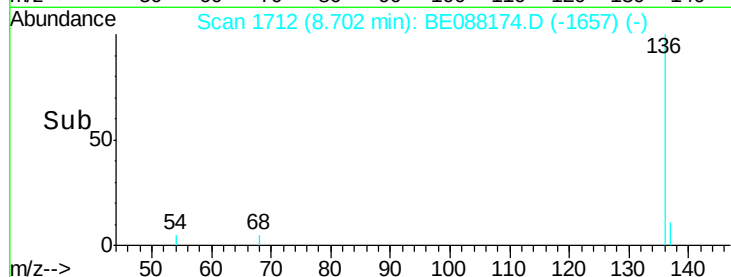
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0



Time-->



#4

Nitrobenzene-d5

Concen: 30.92 ng

RT: 7.83 min Scan# 1509

Delta R.T. 0.01 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

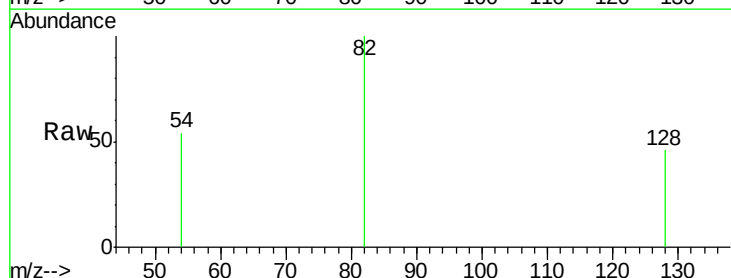
Tgt Ion: 82 Resp: 216446

Ion Ratio Lower Upper

82 100

128 46.1 37.1 55.7

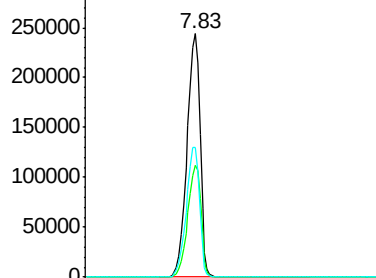
54 53.5 41.1 61.7



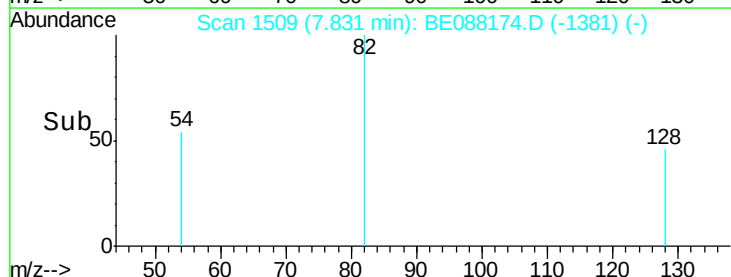
Abundance Ion 82.00 (81.70 to 82.70): BE0

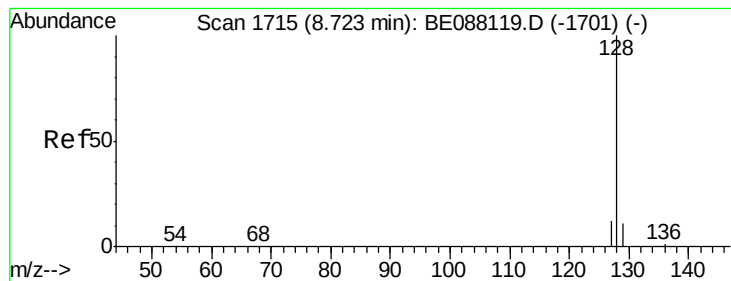
Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0



Time-->





#5

Naphthalene

Concen: 0.04 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

ClientSampleId :

YS19-SB27-1014

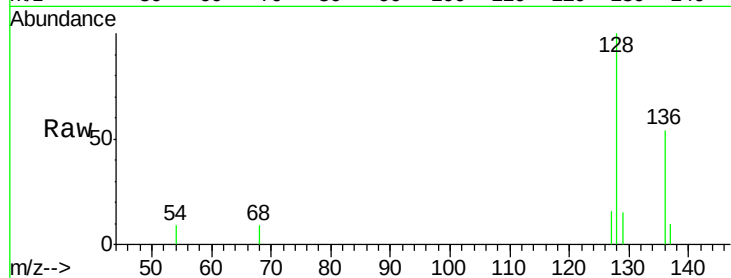
Tgt Ion:128 Resp: 886

Ion Ratio Lower Upper

128 100

129 15.3 8.9 13.3#

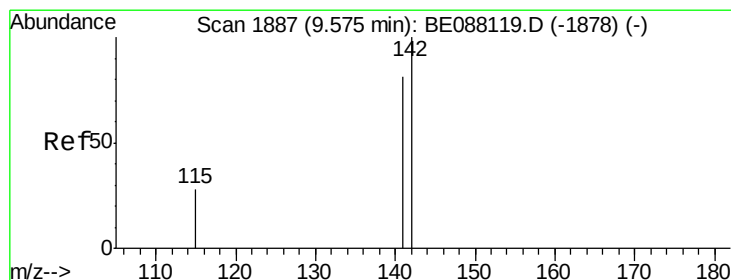
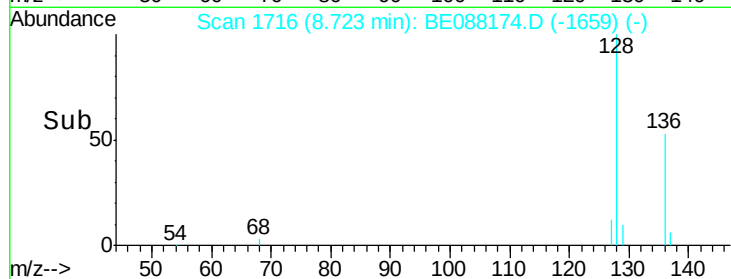
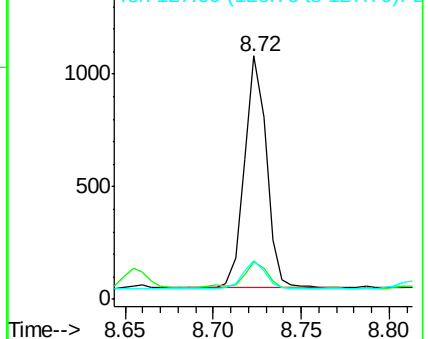
127 16.0 9.7 14.5#



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: 0.03 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

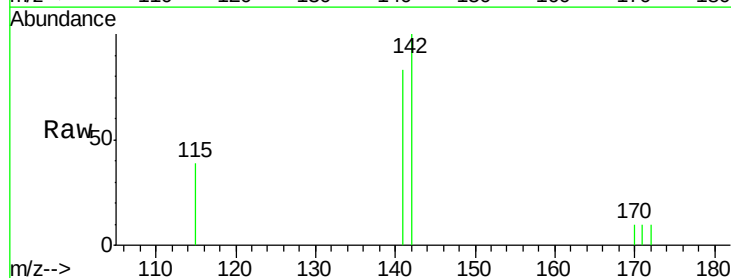
Tgt Ion:142 Resp: 357

Ion Ratio Lower Upper

142 100

141 83.4 64.6 97.0

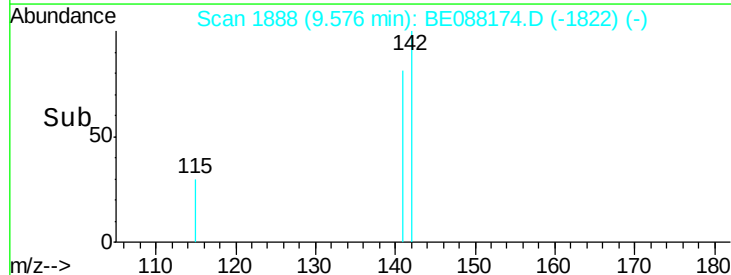
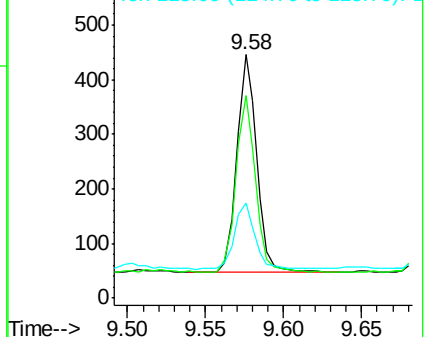
115 39.0 22.6 34.0#

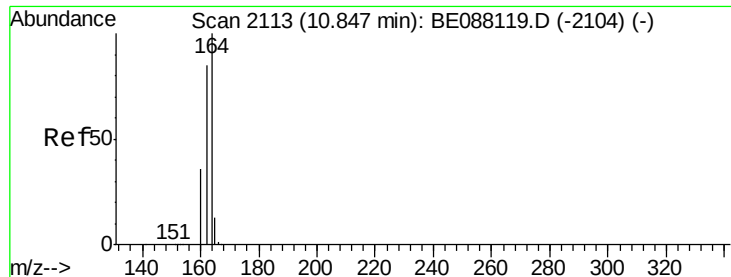


Abundance Ion 142.00 (141.70 to 142.70): E

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# 2114

Delta R.T. 0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

ClientSampleId :

YS19-SB27-1014

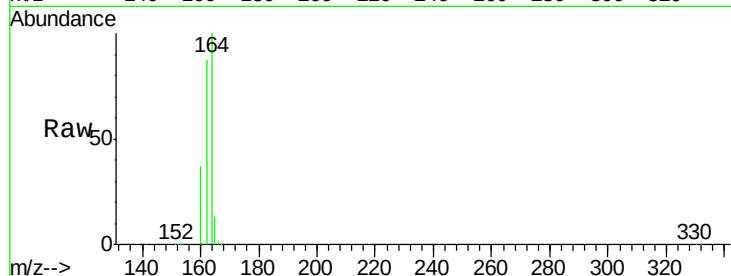
Tgt Ion:164 Resp: 50813

Ion Ratio Lower Upper

164 100

162 87.1 68.3 102.5

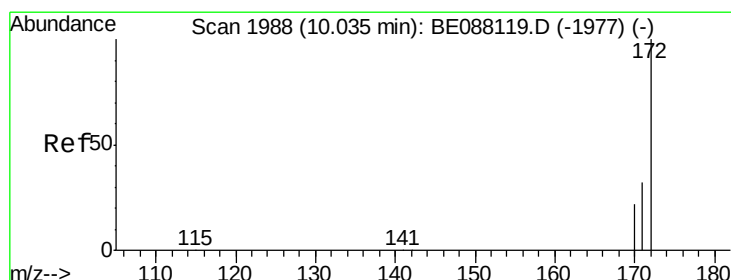
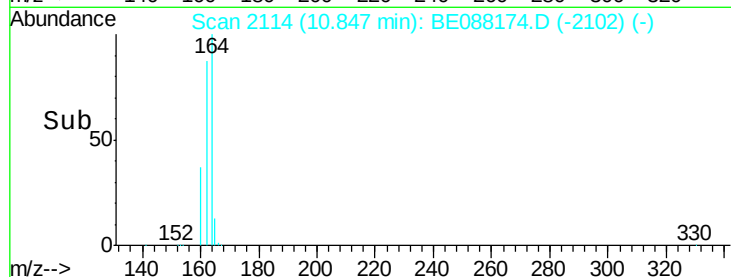
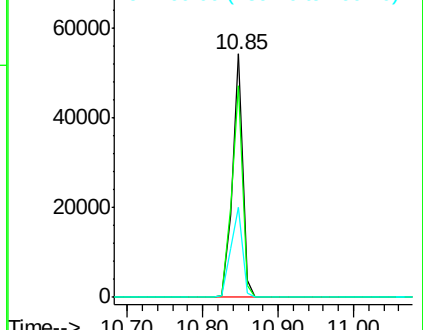
160 37.1 28.7 43.1



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: 21.79 ng

RT: 10.04 min Scan# 1990

Delta R.T. 0.01 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

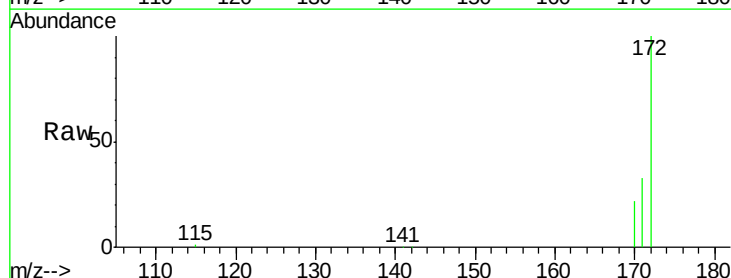
Tgt Ion:172 Resp: 305885

Ion Ratio Lower Upper

172 100

171 32.7 25.4 38.2

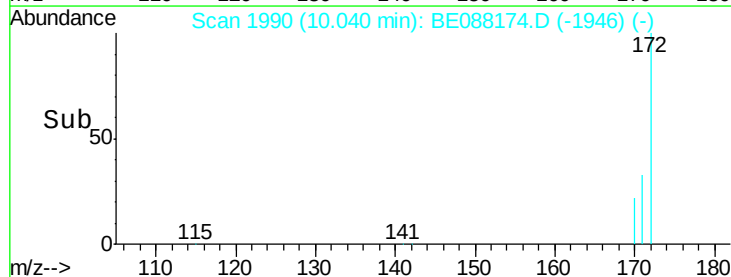
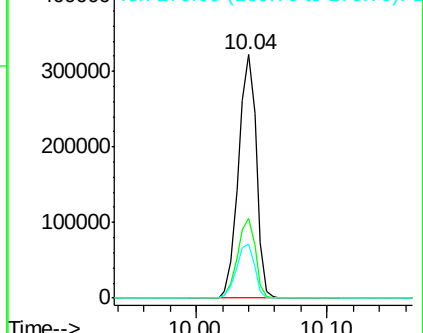
170 22.4 17.4 26.2

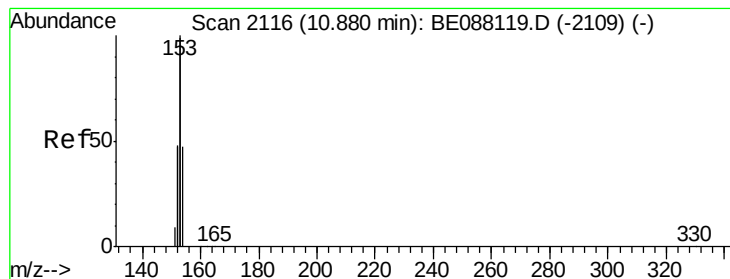


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#10

Acenaphthene

Concen: 0.18 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

Instrument :

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ClientSampleId :

YS19-SB27-1014

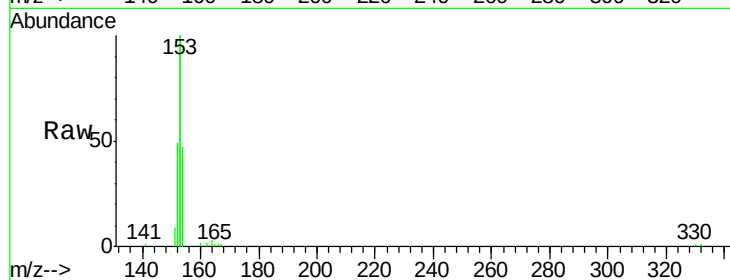
Tgt Ion:154 Resp: 2156

Ion Ratio Lower Upper

154 100

153 372.9 327.8 491.6

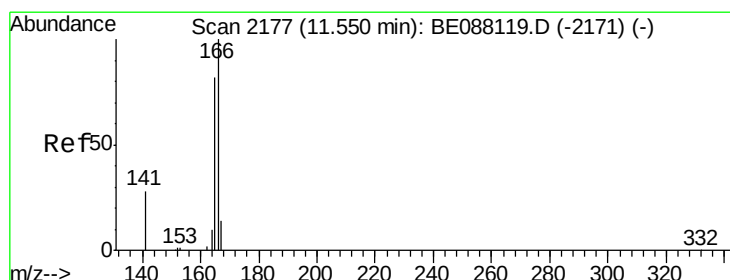
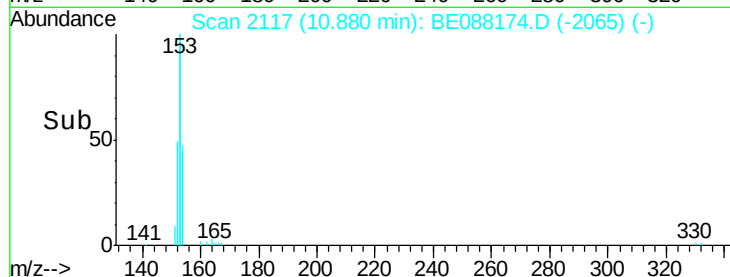
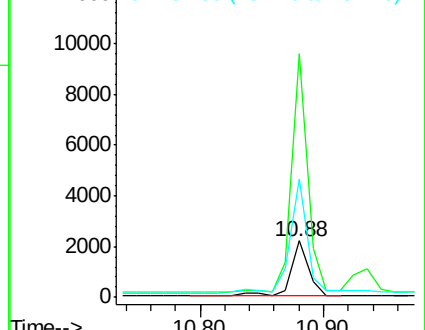
152 195.3 157.6 236.4



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: 0.17 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

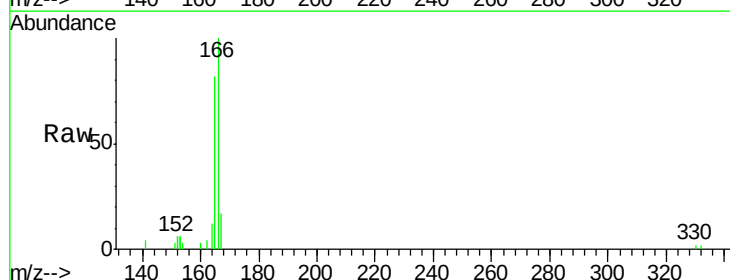
Tgt Ion:166 Resp: 2151

Ion Ratio Lower Upper

166 100

165 88.7 71.4 107.2

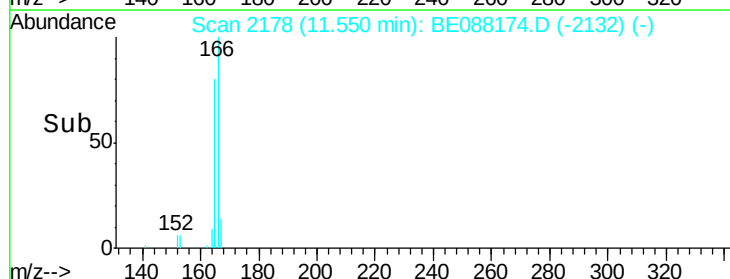
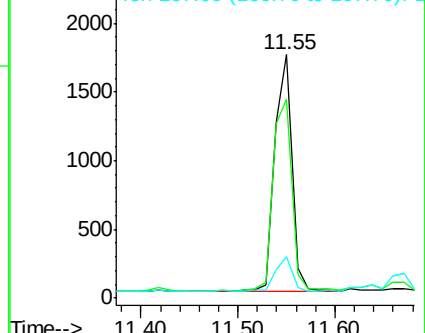
167 13.9 10.6 16.0

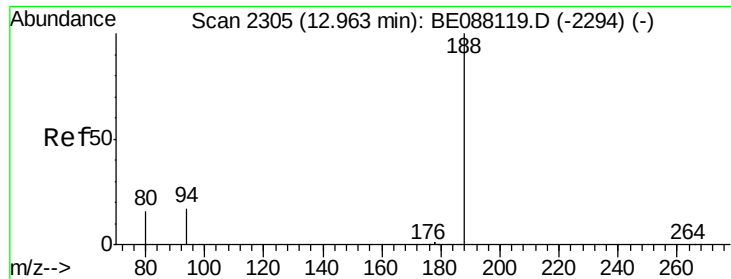


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

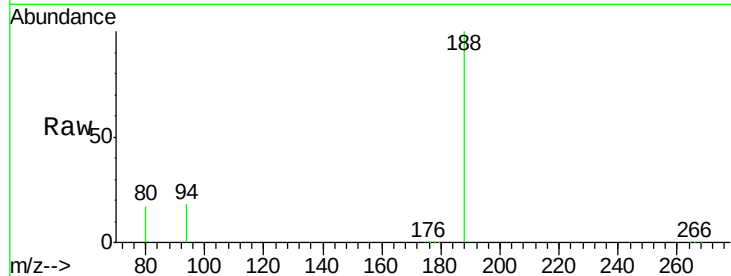




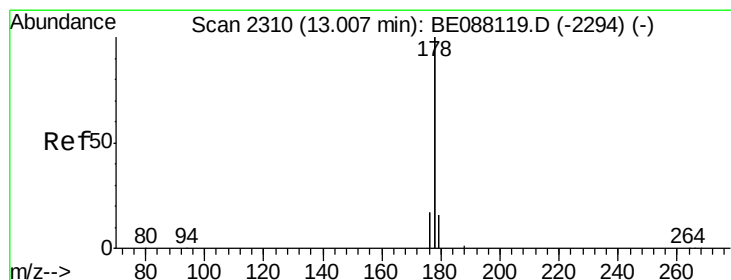
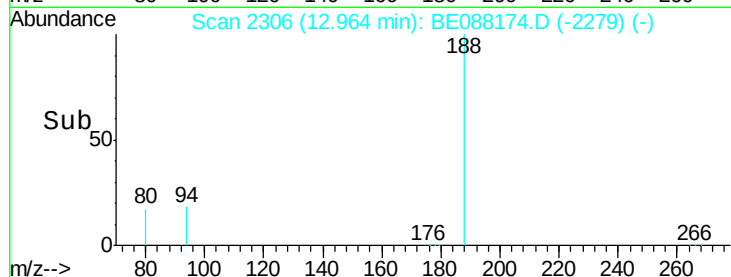
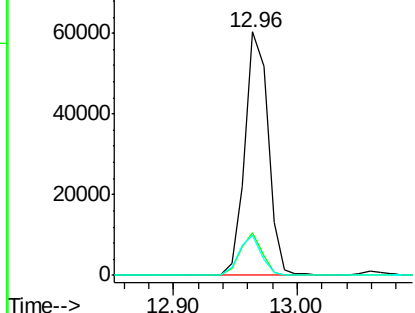
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2306
Delta R.T. 0.00 min
Lab File: BE088174.D
Acq: 22 Oct 2014 10:15

Instrument :
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YS19-SB27-1014

Tgt Ion:188 Resp: 78762
Ion Ratio Lower Upper
188 100
94 17.7 13.9 20.9
80 16.7 12.9 19.3

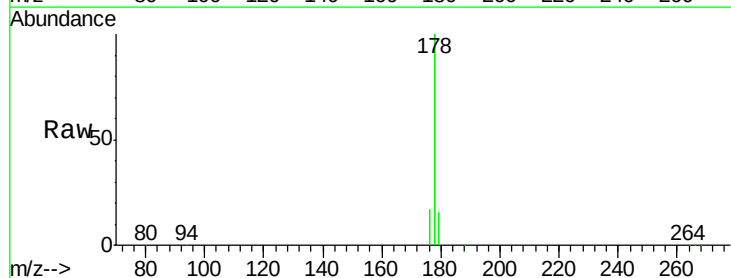


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

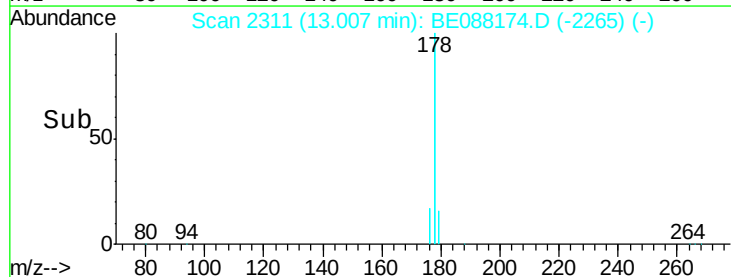
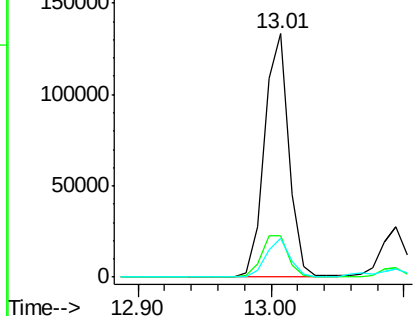


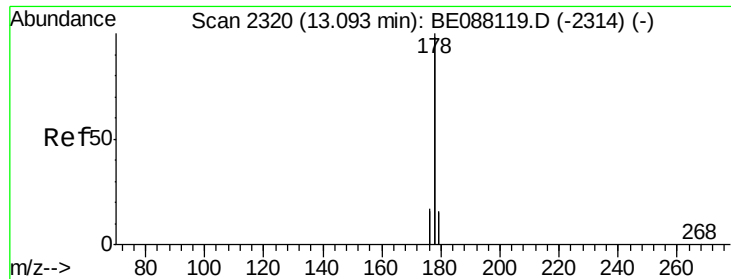
#13
Phenanthrene
Concen: 2.80 ng
RT: 13.01 min Scan# 2311
Delta R.T. 0.00 min
Lab File: BE088174.D
Acq: 22 Oct 2014 10:15

Tgt Ion:178 Resp: 168062
Ion Ratio Lower Upper
178 100
176 18.4 12.5 18.7
179 15.7 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

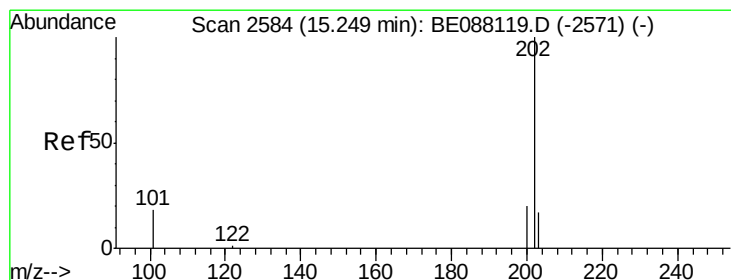
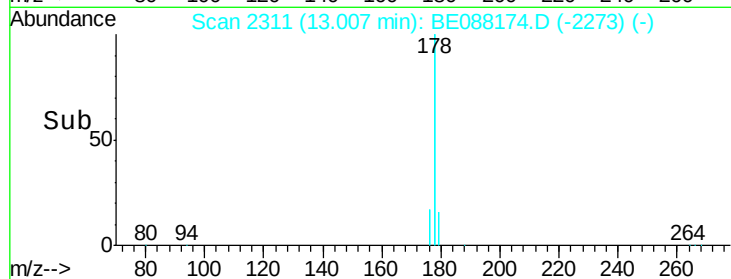
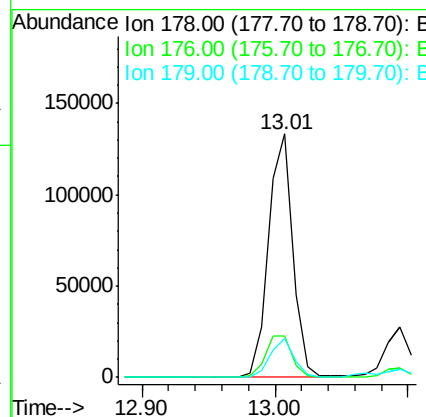
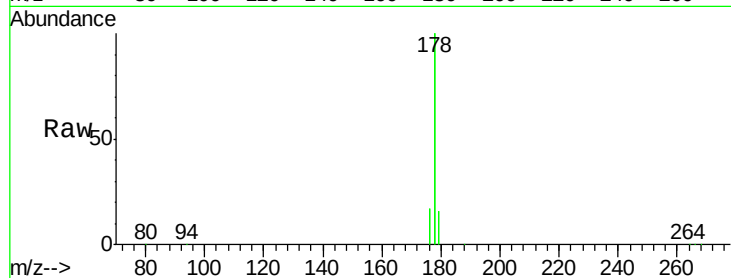




#14
 Anthracene
 Concen: 2.73 ng
 RT: 13.01 min Scan# 2311
 Delta R.T. -0.09 min
 Lab File: BE088174.D
 Acq: 22 Oct 2014 10:15

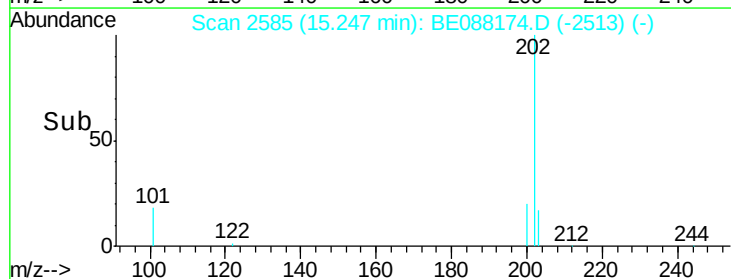
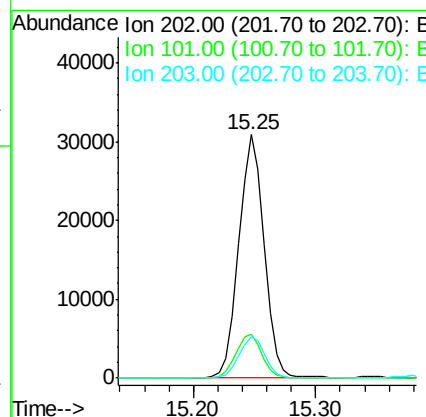
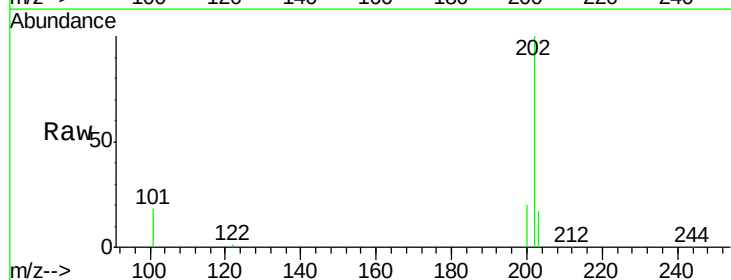
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB27-1014

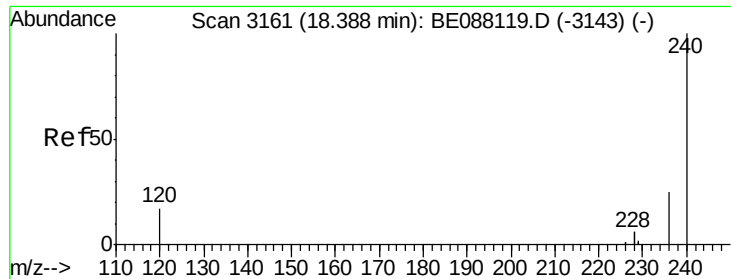
Tgt Ion:178 Resp: 168062
 Ion Ratio Lower Upper
 178 100
 176 18.4 14.6 21.8
 179 15.7 12.5 18.7



#15
 Fluoranthene
 Concen: 2.99 ng
 RT: 15.25 min Scan# 2585
 Delta R.T. -0.00 min
 Lab File: BE088174.D
 Acq: 22 Oct 2014 10:15

Tgt Ion:202 Resp: 44810
 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# 3161

Delta R.T. -0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

ClientSampleId :

YS19-SB27-1014

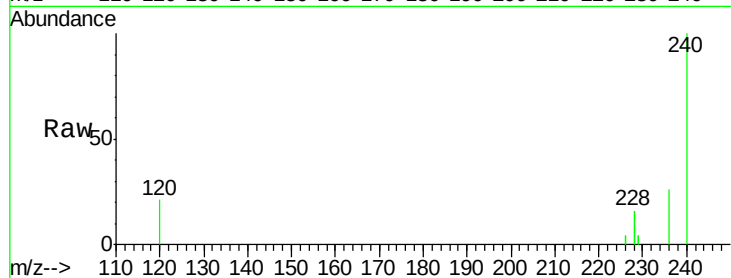
Tgt Ion:240 Resp: 49728

Ion Ratio Lower Upper

240 100

120 20.8 13.9 20.9

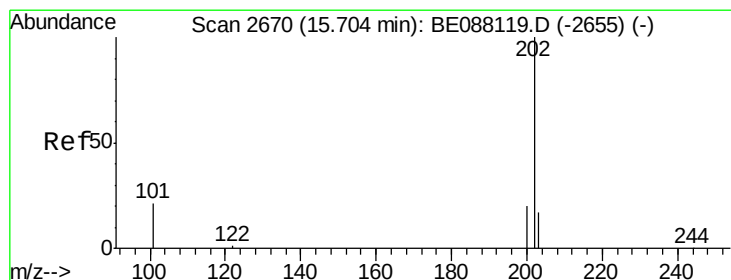
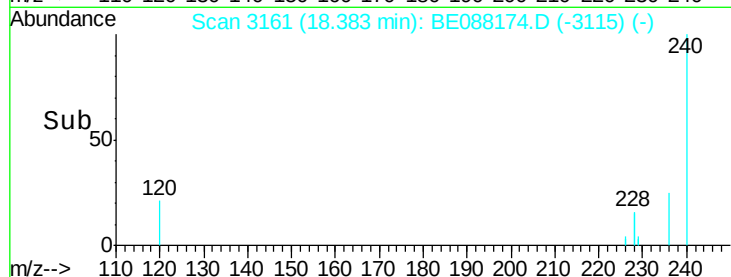
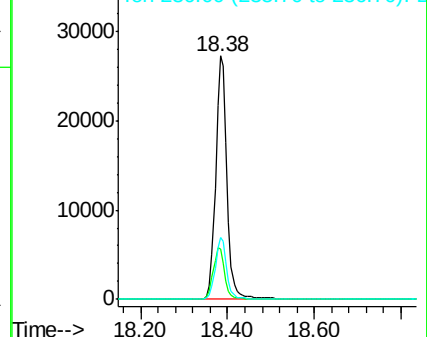
236 25.6 19.9 29.9



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: 2.62 ng

RT: 15.70 min Scan# 2671

Delta R.T. -0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

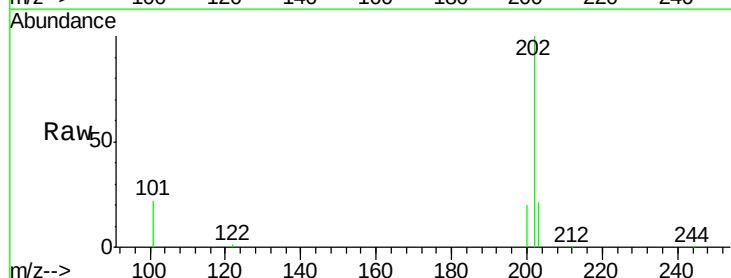
Tgt Ion:202 Resp: 35460

Ion Ratio Lower Upper

202 100

200 20.4 16.1 24.1

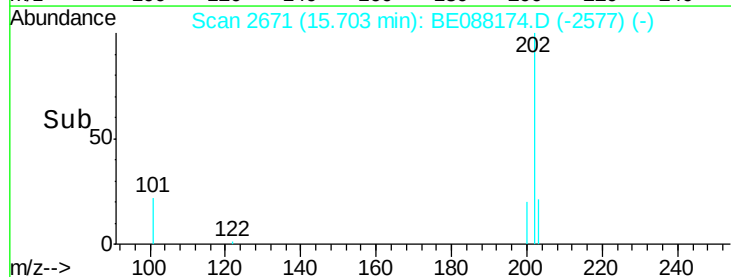
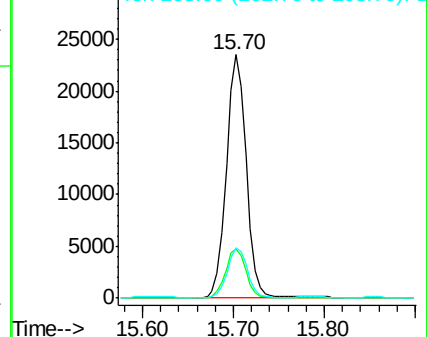
203 20.7 13.9 20.9

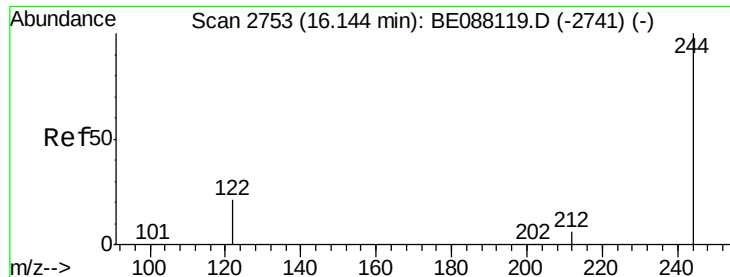


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Terphenyl-d14

Concen: 28.69 ng

RT: 16.15 min Scan# 2756

Delta R.T. 0.01 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

ClientSampleId :

YS19-SB27-1014

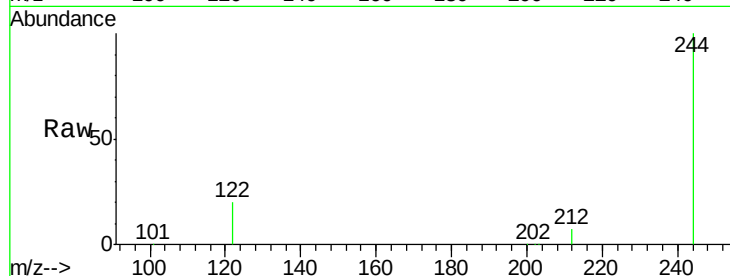
Tgt Ion:244 Resp: 229586

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

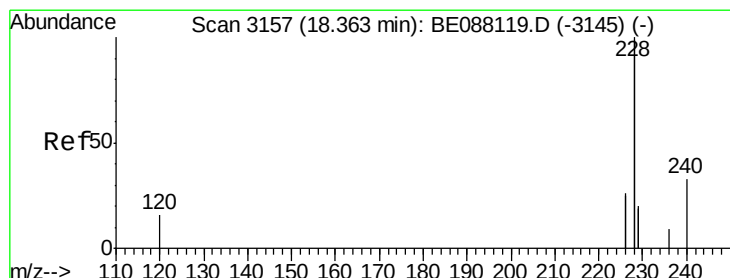
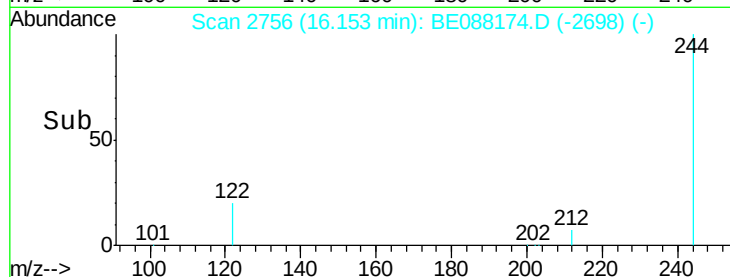
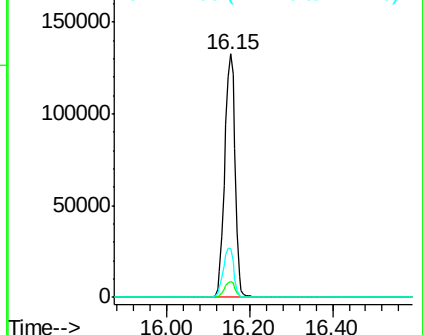
122 20.2 17.5 26.3



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: 1.29 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

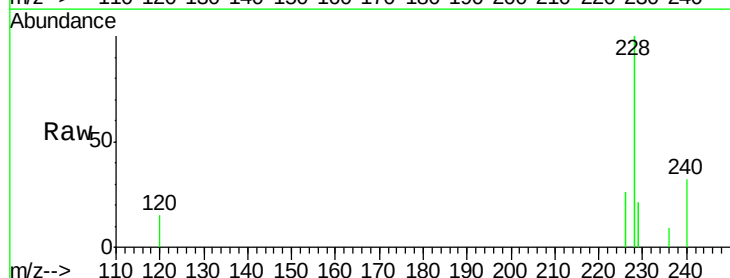
Tgt Ion:228 Resp: 56889

Ion Ratio Lower Upper

228 100

226 25.5 20.8 31.2

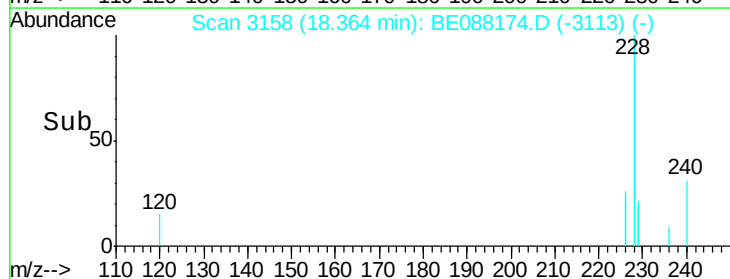
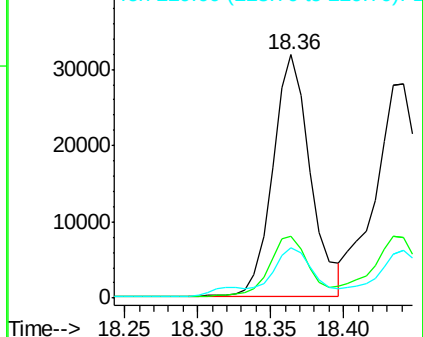
229 20.8 15.6 23.4

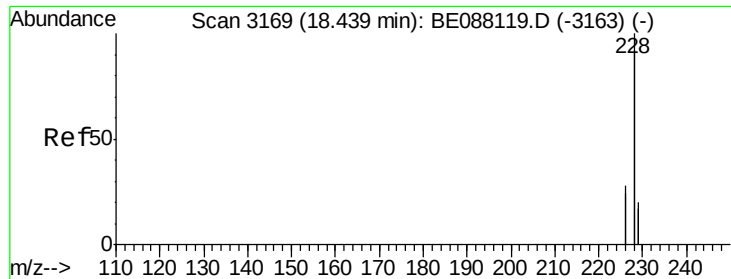


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 1.40 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

ClientSampleId :

YS19-SB27-1014

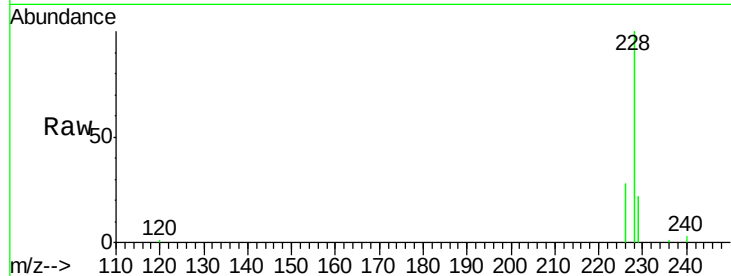
Tgt Ion:228 Resp: 60544

Ion Ratio Lower Upper

228 100

226 28.2 22.7 34.1

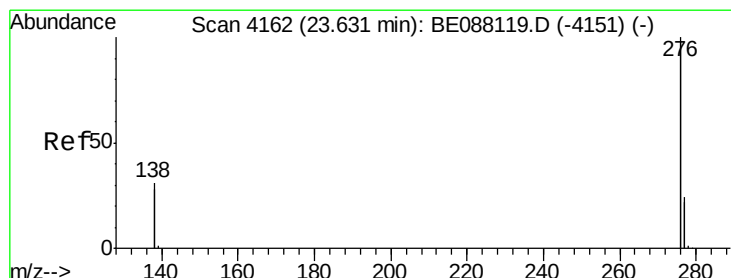
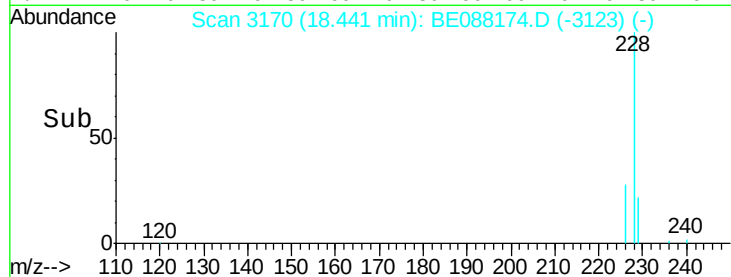
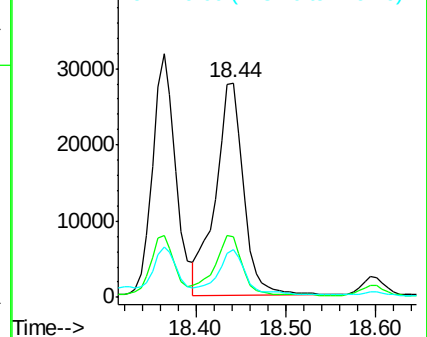
229 22.4 15.8 23.6



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: 0.65 ng

RT: 23.64 min Scan# 4164

Delta R.T. 0.01 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

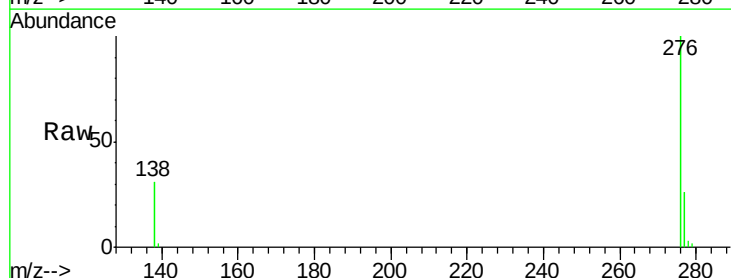
Tgt Ion:276 Resp: 31228

Ion Ratio Lower Upper

276 100

138 27.1 18.5 27.7

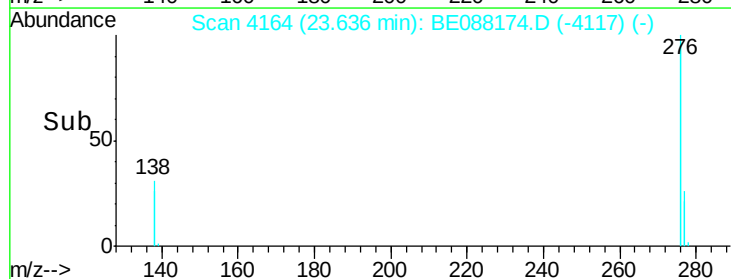
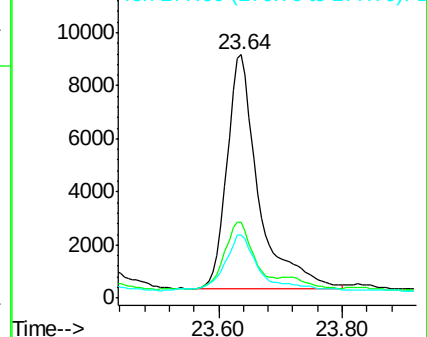
277 25.1 14.6 21.8#

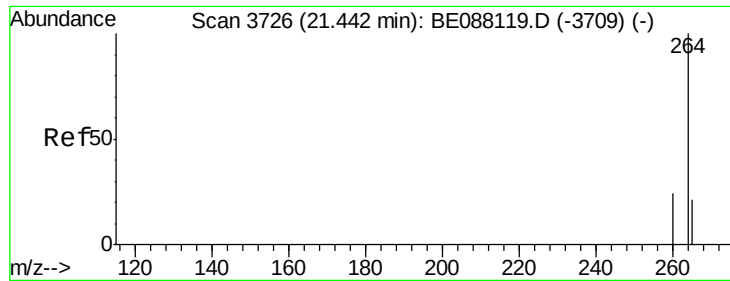


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

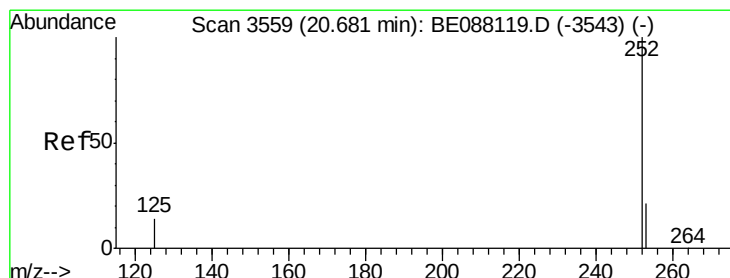
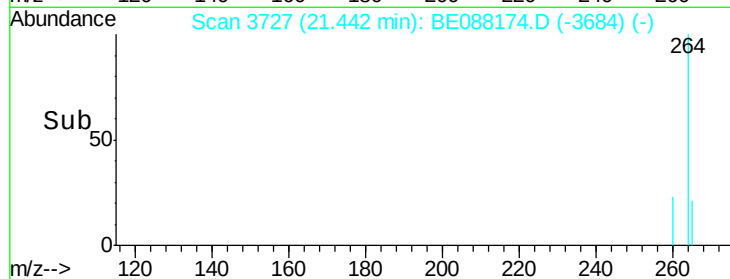
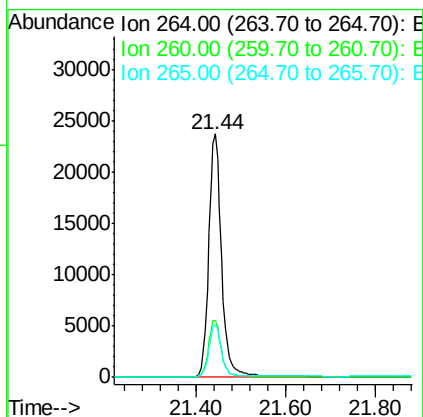
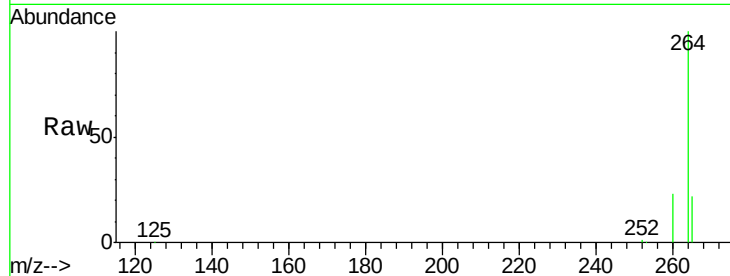




#22
Perylene-d12
 Concen: 5.00 ng
 RT: 21.44 min Scan# 3727
 Delta R.T. 0.00 min
 Lab File: BE088174.D
 Acq: 22 Oct 2014 10:15

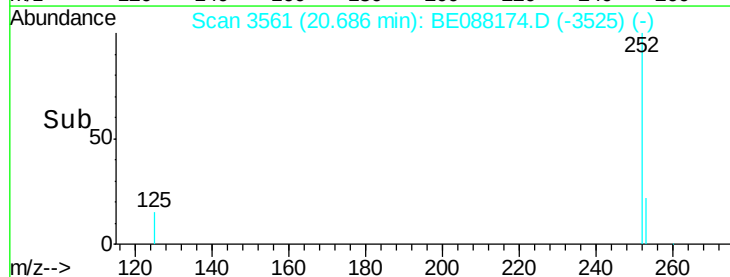
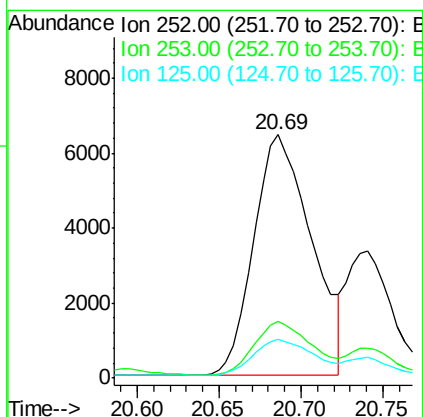
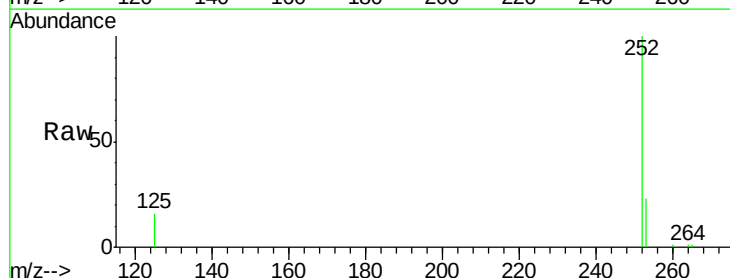
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB27-1014

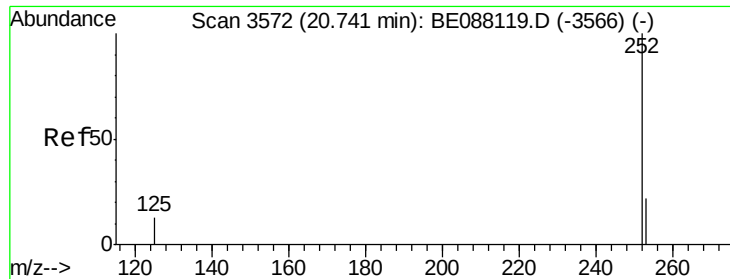
Tgt Ion: 264 Resp: 46621
 Ion Ratio Lower Upper
 264 100
 260 23.3 19.0 28.4
 265 21.6 17.2 25.8



#23
Benzo(b)fluoranthene
 Concen: 1.43 ng
 RT: 20.69 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: BE088174.D
 Acq: 22 Oct 2014 10:15

Tgt Ion: 252 Resp: 15885
 Ion Ratio Lower Upper
 252 100
 253 23.1 17.4 26.0
 125 15.7 11.8 17.8





#24

Benzo(k)fluoranthene

Concen: 0.57 ng

RT: 20.74 min Scan# 3573

Delta R.T. 0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

Instrument :

BNA_E

ClientSampleId :

YS19-SB27-1014

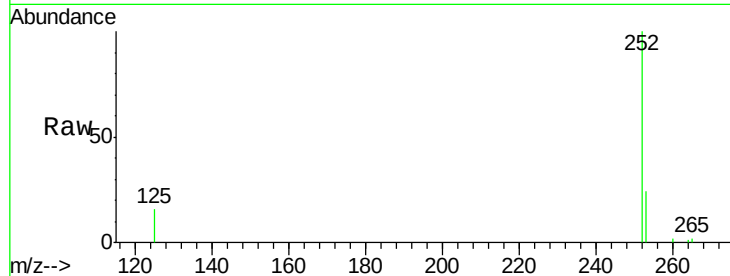
Tgt Ion: 252 Resp: 6791

Ion Ratio Lower Upper

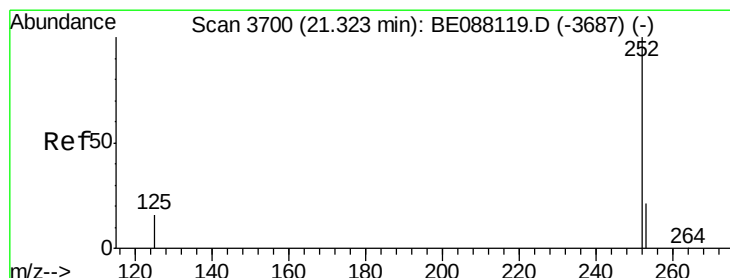
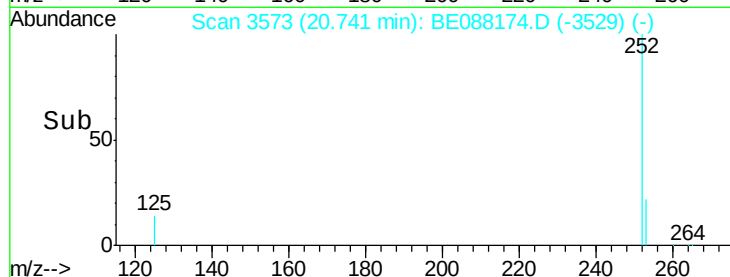
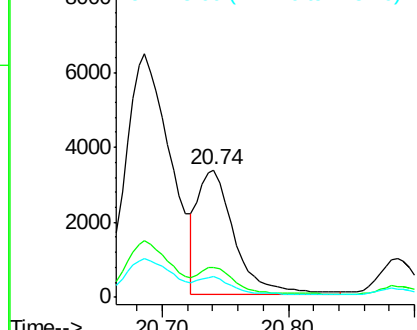
252 100

253 23.7 17.6 26.4

125 16.1 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: 1.04 ng

RT: 21.32 min Scan# 3701

Delta R.T. 0.00 min

Lab File: BE088174.D

Acq: 22 Oct 2014 10:15

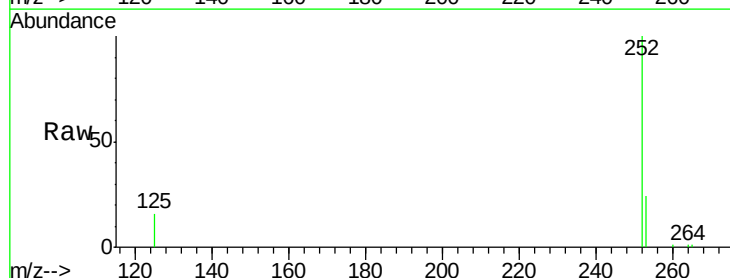
Tgt Ion: 252 Resp: 10609

Ion Ratio Lower Upper

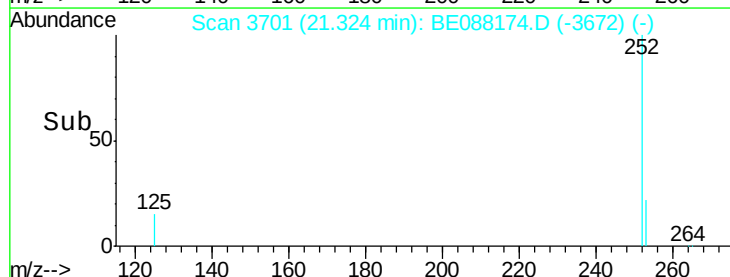
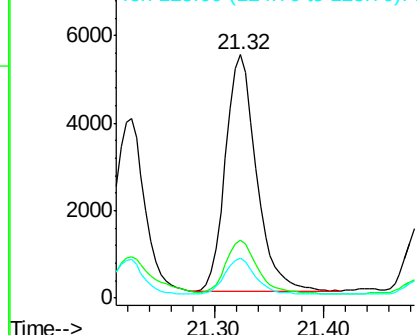
252 100

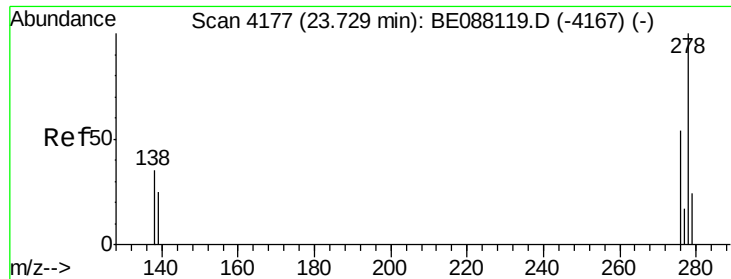
253 24.0 17.5 26.3

125 16.3 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

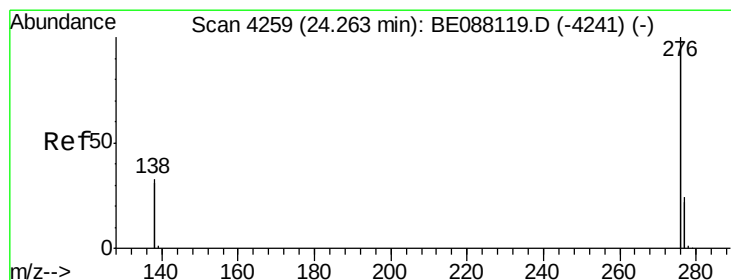
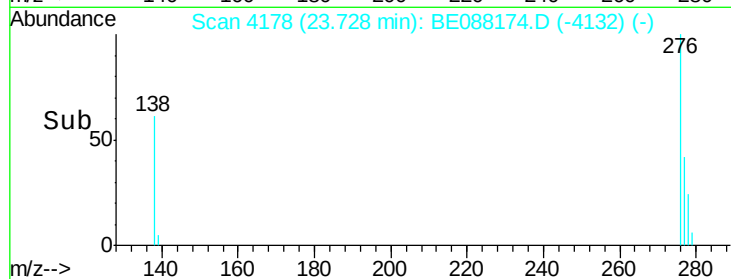
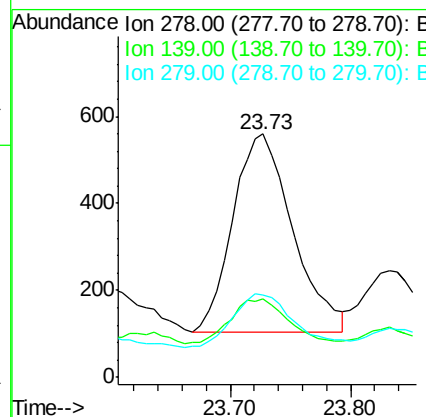
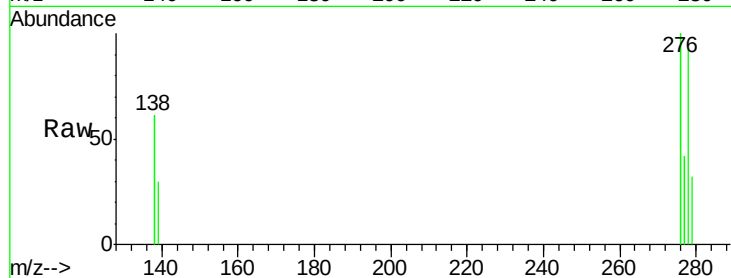




#26
Dibenzo(a,h)anthracene
Concen: 0.16 ng
RT: 23.73 min Scan# 4178
Delta R.T. -0.00 min
Lab File: BE088174.D
Acq: 22 Oct 2014 10:15

Instrument :
BNA_E
ClientSampleId :
YS19-SB27-1014

Tgt Ion: 278 Resp: 1566
Ion Ratio Lower Upper
278 100
139 32.1 20.9 31.3#
279 33.9 19.8 29.8#



#27
Benzo(g,h,i)perylene
Concen: 0.70 ng
RT: 24.26 min Scan# 4260
Delta R.T. -0.00 min
Lab File: BE088174.D
Acq: 22 Oct 2014 10:15

Tgt Ion: 276 Resp: 30995
Ion Ratio Lower Upper
276 100
277 25.7 19.2 28.8
138 33.8 26.6 40.0

