

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
 Data File : BE088168.D
 Acq On : 22 Oct 2014 6:55
 Operator : TP/JJ
 Sample : F4312-15 5X
 Misc :
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS02-1014

Quant Time: Oct 22 07:29:12 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	19973	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	76238	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	40220	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	64963	5.00	ng	0.00
16) Chrysene-d12	18.38	240	50582	5.00	ng	0.00
22) Perylene-d12	21.44	264	43679	5.00	ng	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
4) Nitrobenzene-d5	7.83	82	87671	15.95	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	130730	11.77	ng	0.00
18) Terphenyl-d14	16.15	244	103239	12.68	ng	0.00

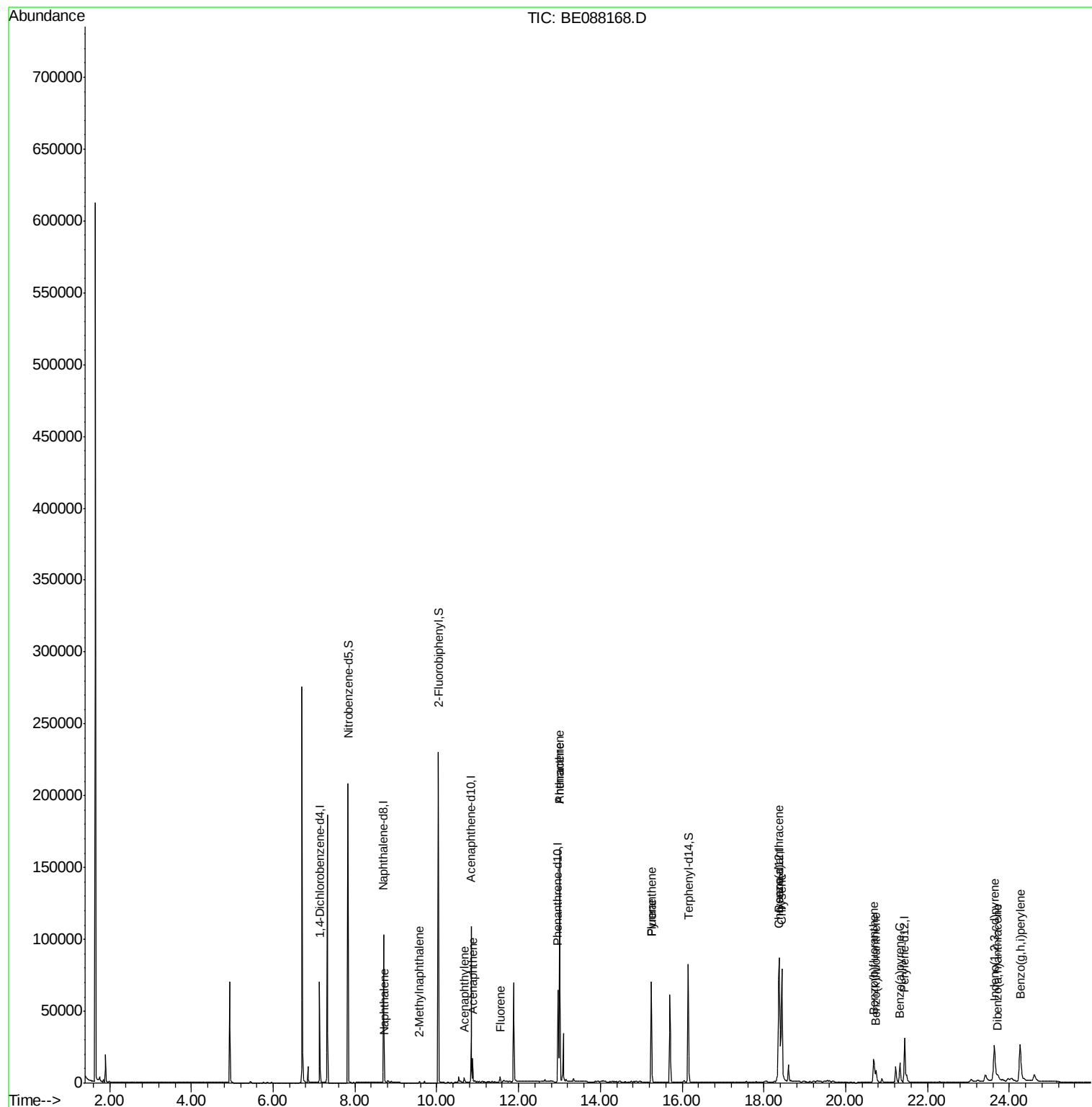
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
5) Naphthalene	8.72	128	973	0.06	ng	# 90
6) 2-Methylnaphthalene	9.58	142	399	0.04	ng	# 95
9) Acenaphthylene	10.67	152	2994	0.05	ng	98
10) Acenaphthene	10.88	154	2173	0.23	ng	93
11) Fluorene	11.55	166	2016	0.20	ng	98
13) Phenanthrene	13.01	178	155108	3.16	ng	# 95
14) Anthracene	13.01	178	155108	3.06	ng	99
15) Fluoranthene	15.25	202	64855	5.25	ng	99
17) Pyrene	15.25	202	64552	4.69	ng	100
19) Benzo(a)anthracene	18.36	228	99785	2.22	ng	99
20) Chrysene	18.44	228	106849	2.42	ng	97
21) Indeno(1,2,3-cd)pyrene	23.64	276	56628	1.16	ng	# 87
23) Benzo(b)fluoranthene	20.69	252	29757	2.86	ng	98
24) Benzo(k)fluoranthene	20.74	252	13410	1.20	ng	98
25) Benzo(a)pyrene	21.32	252	19873	2.08	ng	98
26) Dibenzo(a,h)anthracene	23.72	278	2581	0.27	ng	# 88
27) Benzo(g,h,i)perylene	24.26	276	57699	1.39	ng	99

(#) = 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: BE088168.D

Acq: 22 Oct 2014 6:55

Instrument :

BNA_E

ClientSampleId :

YS19-SS02-1014

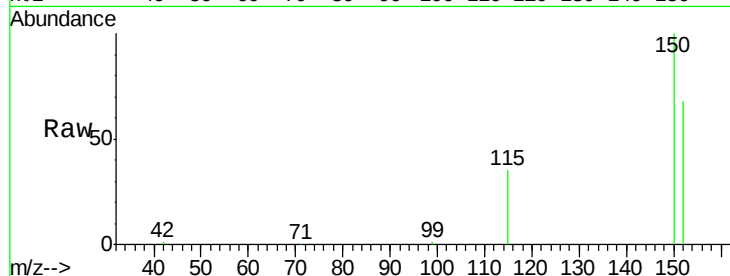
Tgt Ion:152 Resp: 19973

Ion Ratio Lower Upper

152 100

150 147.3 129.2 193.8

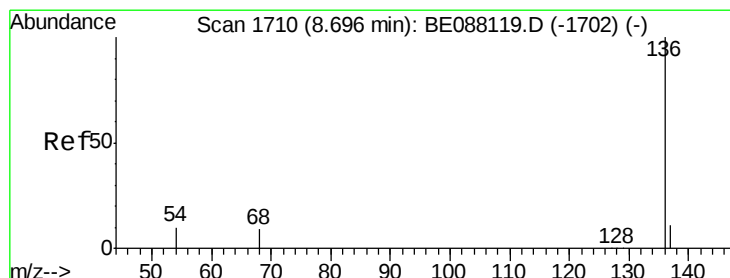
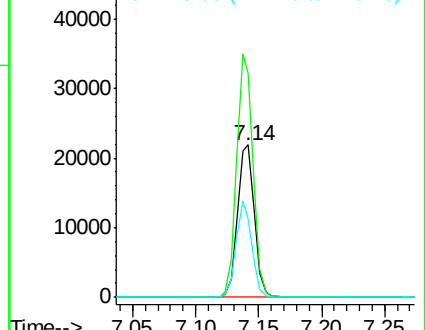
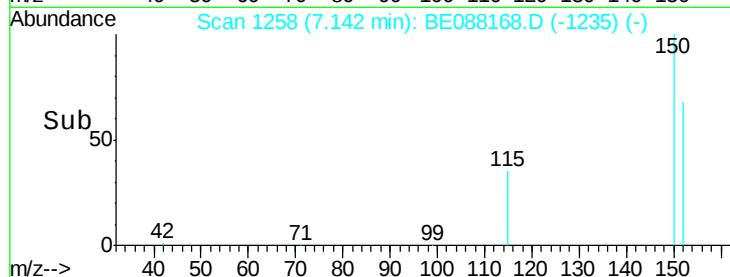
115 51.7 49.3 73.9



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



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1711

Delta R.T. 0.01 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

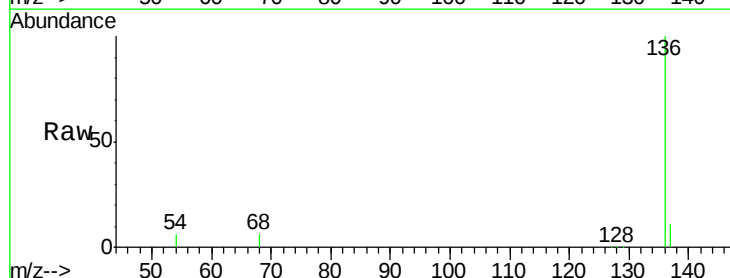
Tgt Ion:136 Resp: 76238

Ion Ratio Lower Upper

136 100

137 11.3 8.6 12.8

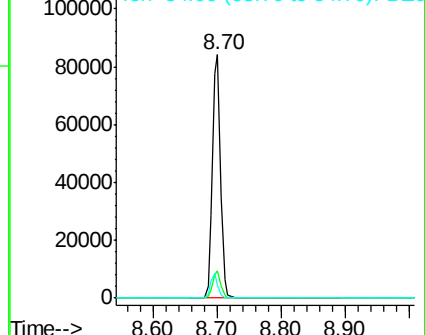
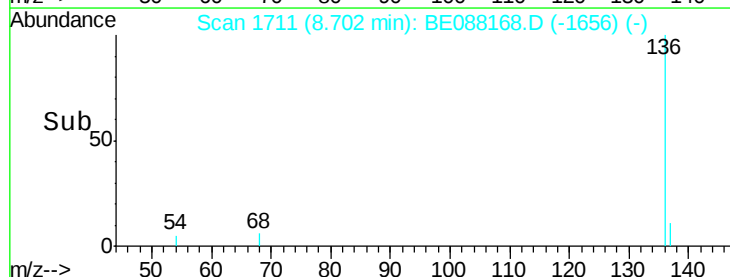
54 5.5 7.7 11.5#

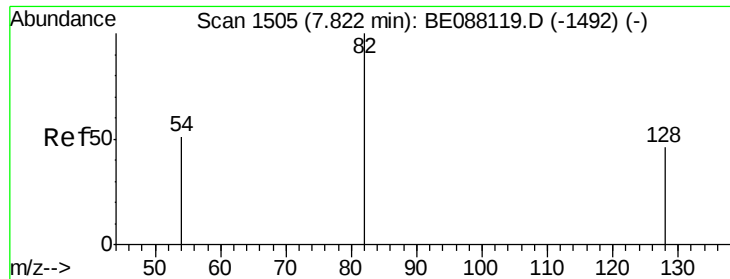


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 15.95 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

Instrument :

BNA_E

ClientSampleId :

YS19-SS02-1014

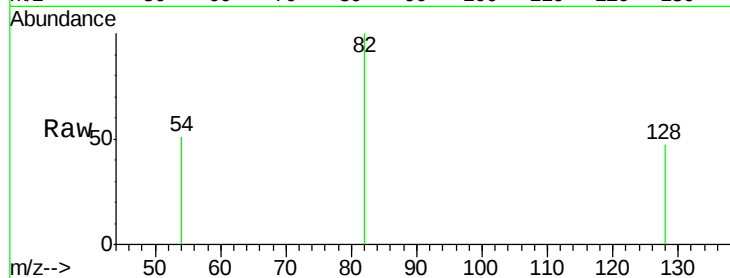
Tgt Ion: 82 Resp: 87671

Ion Ratio Lower Upper

82 100

128 47.3 37.1 55.7

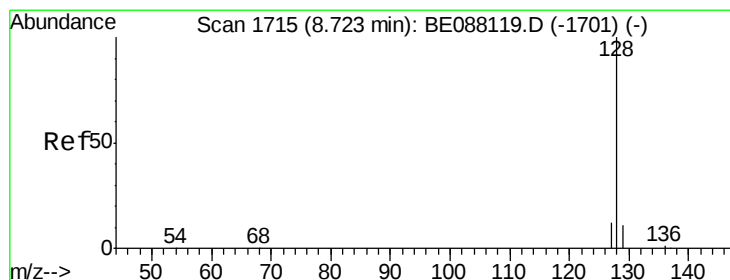
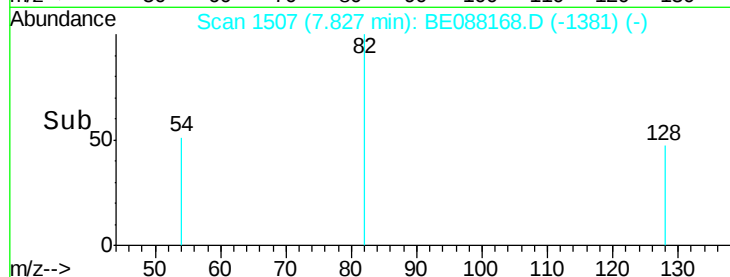
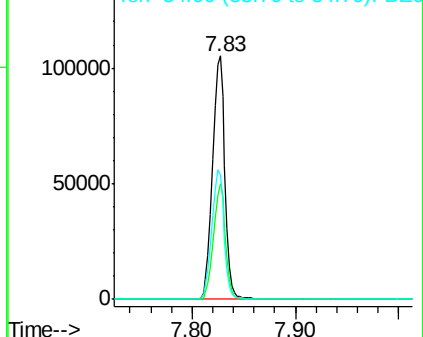
54 51.0 41.1 61.7



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: 0.06 ng

RT: 8.72 min Scan# 1715

Delta R.T. 0.00 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

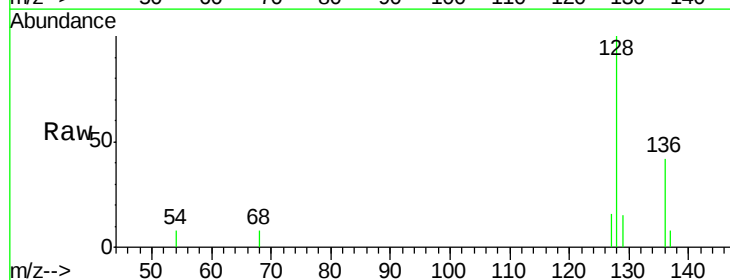
Tgt Ion: 128 Resp: 973

Ion Ratio Lower Upper

128 100

129 14.7 8.9 13.3#

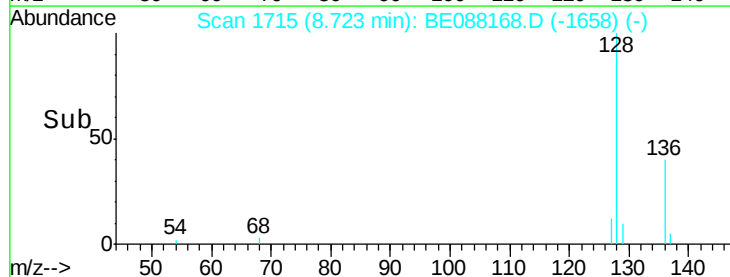
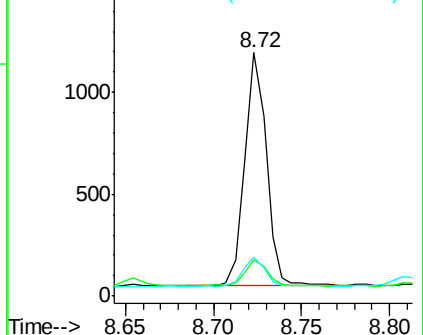
127 16.1 9.7 14.5#

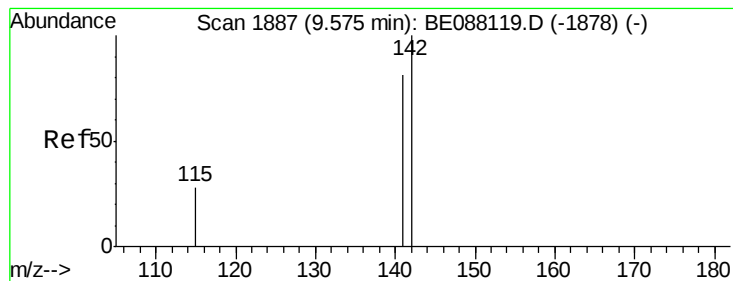


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#6

2-Methylnaphthalene

Concen: 0.04 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

Instrument :

BNA_E

ClientSampleId :

YS19-SS02-1014

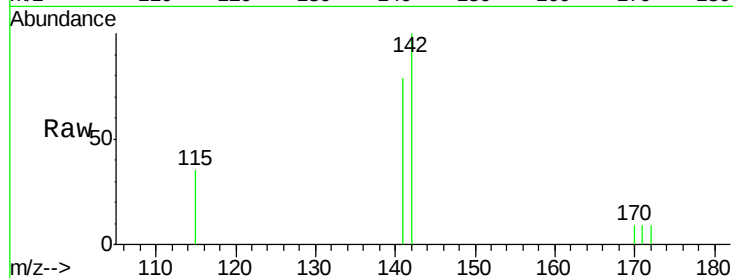
Tgt Ion:142 Resp: 399

Ion Ratio Lower Upper

142 100

141 78.8 64.6 97.0

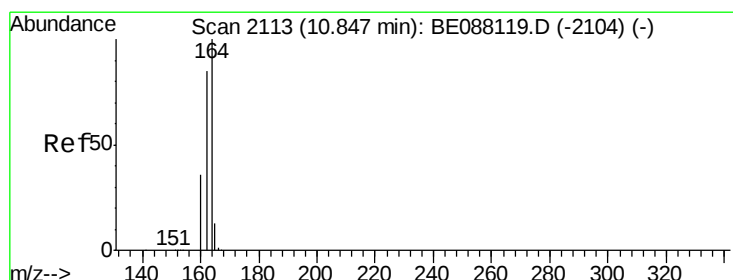
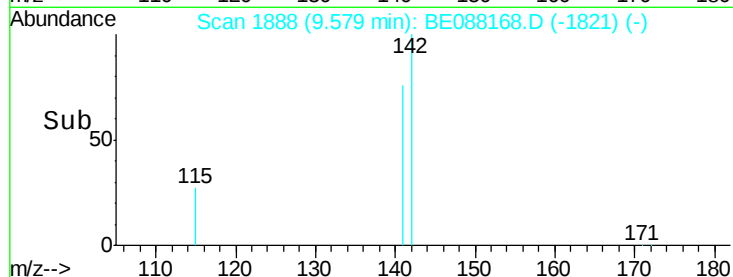
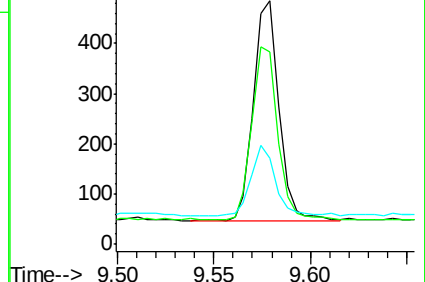
115 35.5 22.6 34.0#



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: BE088168.D

Acq: 22 Oct 2014 6:55

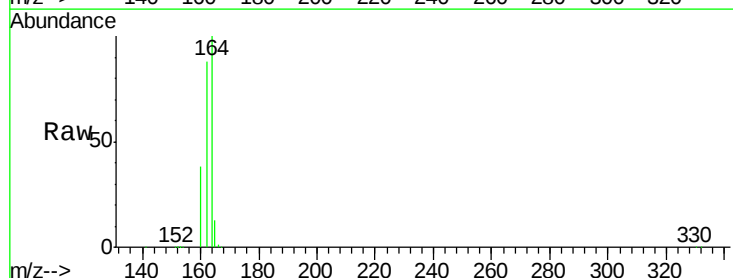
Tgt Ion:164 Resp: 40220

Ion Ratio Lower Upper

164 100

162 88.2 68.3 102.5

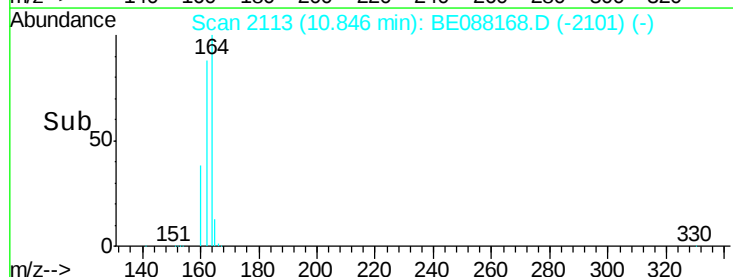
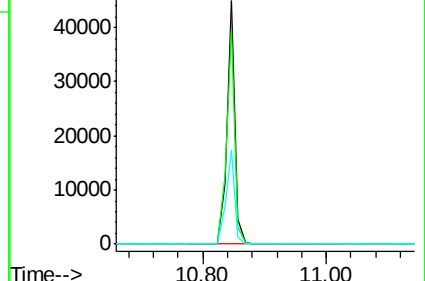
160 38.4 28.7 43.1



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

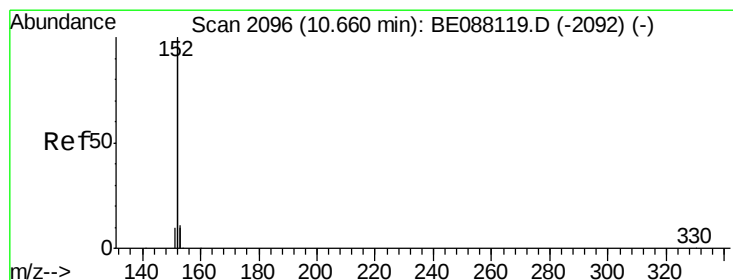
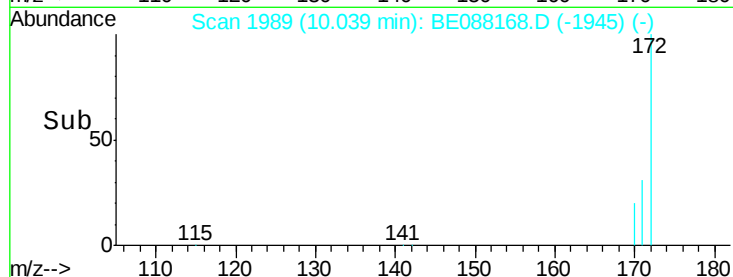
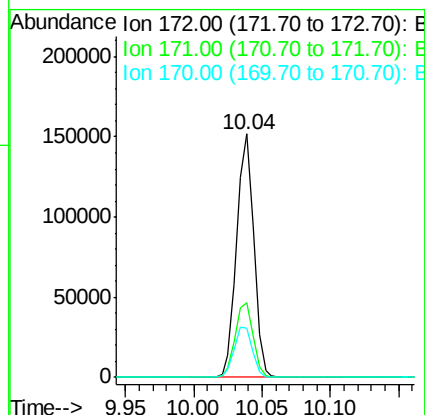
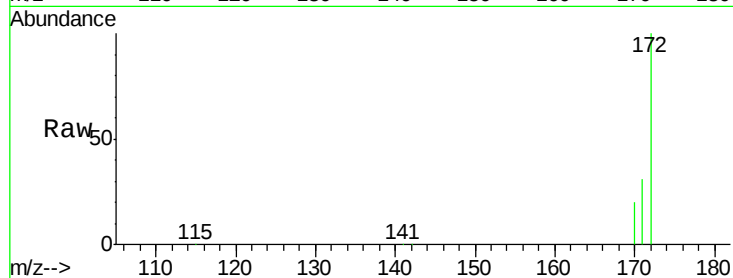




#8
2-Fluorobiphenyl
Concen: 11.77 ng
RT: 10.04 min Scan# 1989
Delta R.T. 0.00 min
Lab File: BE088168.D
Acq: 22 Oct 2014 6:55

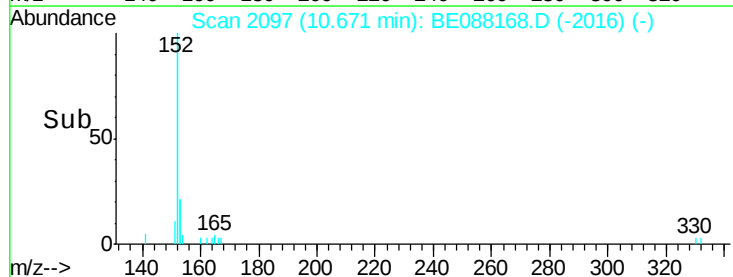
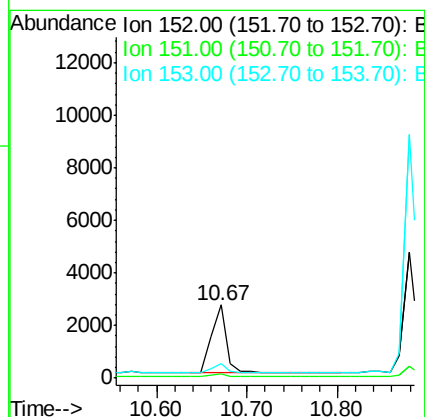
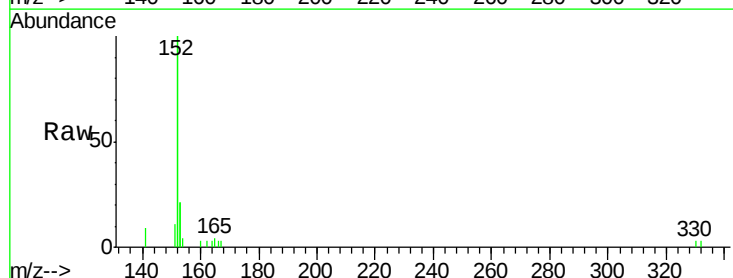
Instrument :
BNA_E
ClientSampleId :
YS19-SS02-1014

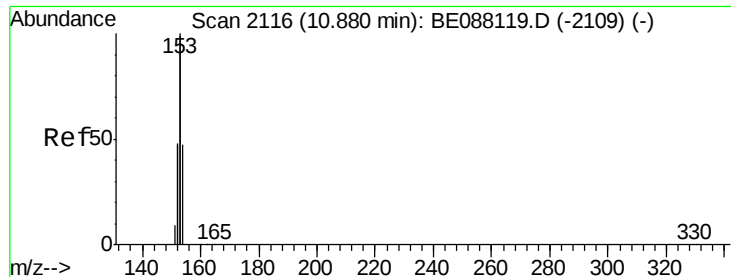
Tgt Ion:172 Resp: 130730
Ion Ratio Lower Upper
172 100
171 30.9 25.4 38.2
170 20.4 17.4 26.2



#9
Acenaphthylene
Concen: 0.05 ng
RT: 10.67 min Scan# 2097
Delta R.T. 0.01 min
Lab File: BE088168.D
Acq: 22 Oct 2014 6:55

Tgt Ion:152 Resp: 2994
Ion Ratio Lower Upper
152 100
151 4.6 3.7 5.5
153 14.1 10.4 15.6





#10

Acenaphthene

Concen: 0.23 ng

RT: 10.88 min Scan# 2116

Delta R.T. -0.00 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

Instrument :

BNA_E

ClientSampleId :

YS19-SS02-1014

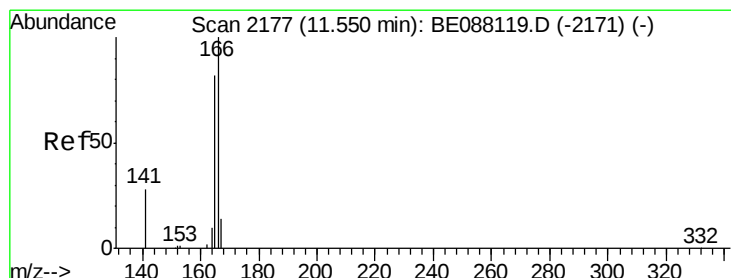
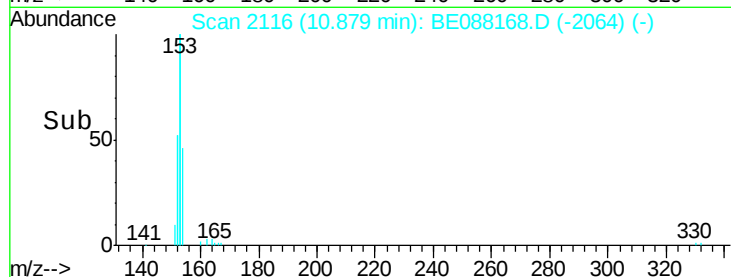
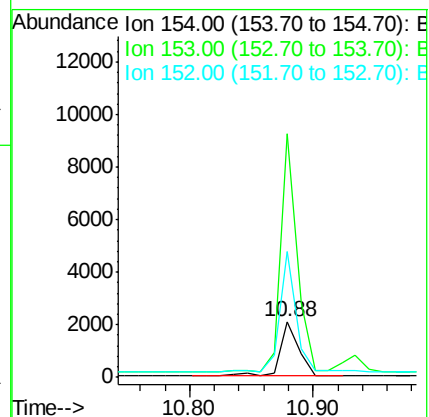
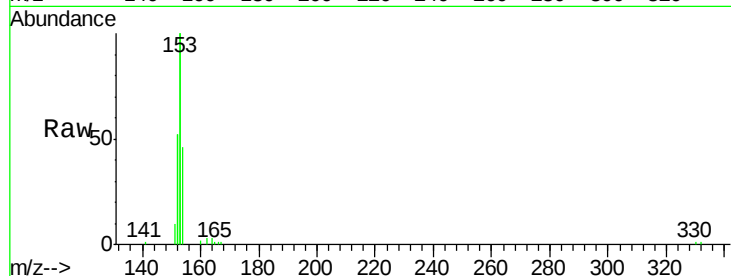
Tgt Ion:154 Resp: 2173

Ion Ratio Lower Upper

154 100

153 386.3 327.8 491.6

152 196.4 157.6 236.4



#11

Fluorene

Concen: 0.20 ng

RT: 11.55 min Scan# 2177

Delta R.T. -0.00 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

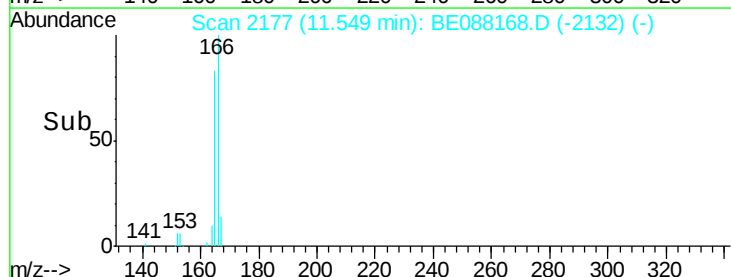
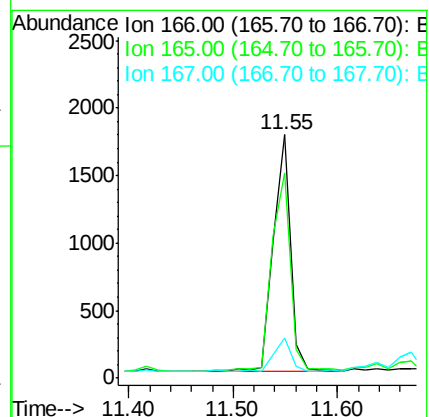
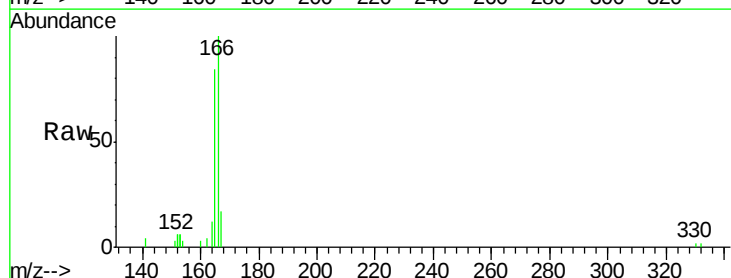
Tgt Ion:166 Resp: 2016

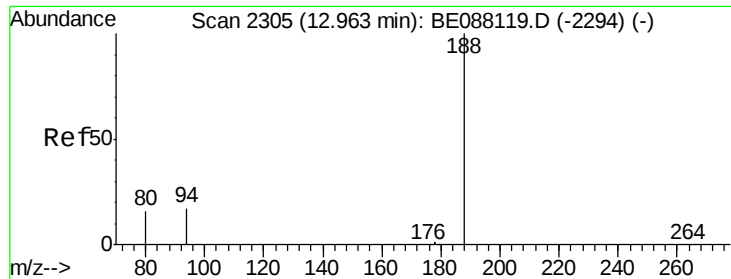
Ion Ratio Lower Upper

166 100

165 90.9 71.4 107.2

167 14.0 10.6 16.0

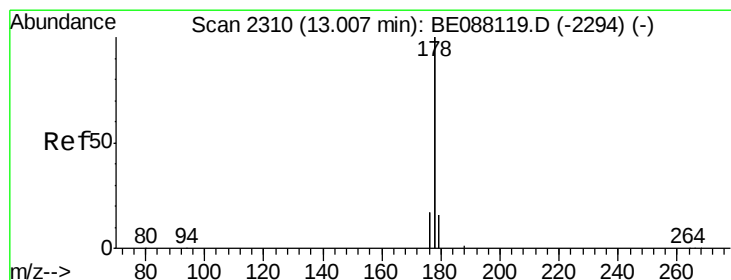
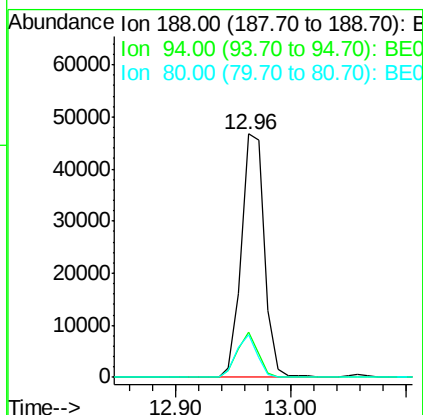
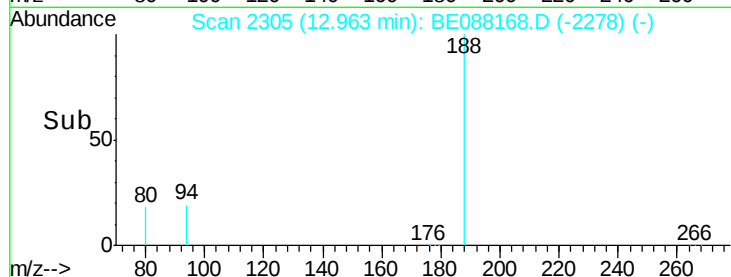
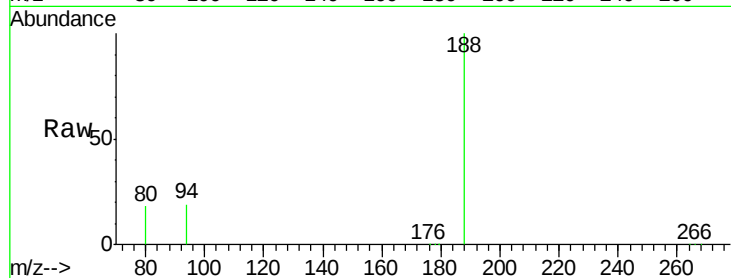




#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2305
Delta R.T. -0.00 min
Lab File: BE088168.D
Acq: 22 Oct 2014 6:55

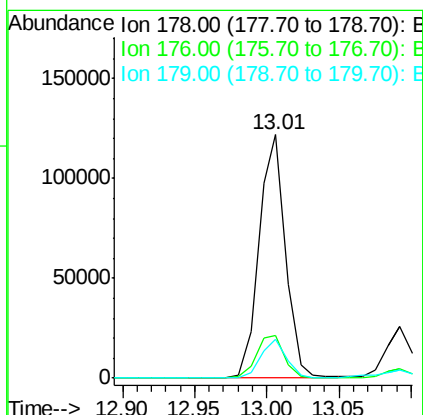
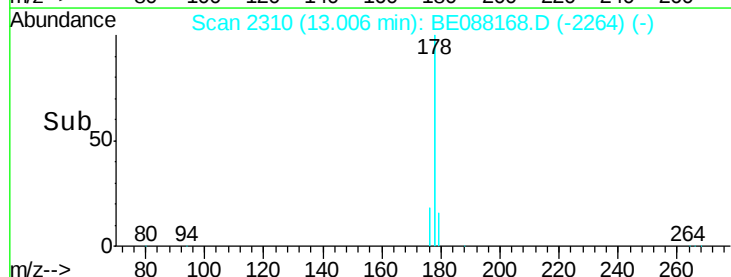
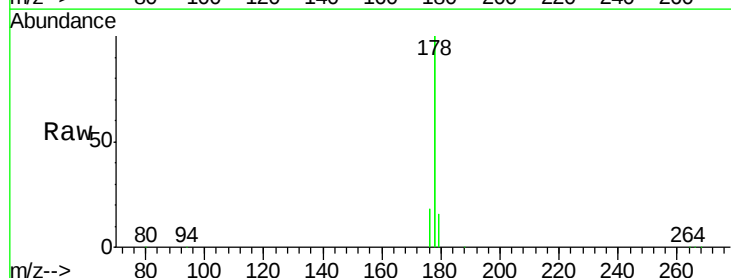
Instrument :
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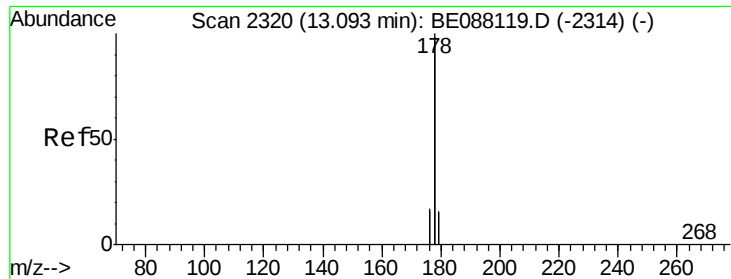
Tgt Ion:188 Resp: 64963
Ion Ratio Lower Upper
188 100
94 18.6 13.9 20.9
80 17.6 12.9 19.3



#13
Phenanthrene
Concen: 3.16 ng
RT: 13.01 min Scan# 2310
Delta R.T. 0.00 min
Lab File: BE088168.D
Acq: 22 Oct 2014 6:55

Tgt Ion:178 Resp: 155108
Ion Ratio Lower Upper
178 100
176 18.8 12.5 18.7#
179 15.7 13.5 20.3





#14

Anthracene

Concen: 3.06 ng

RT: 13.01 min Scan# 2310

Delta R.T. -0.09 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

Instrument :

BNA_E

ClientSampleId :

YS19-SS02-1014

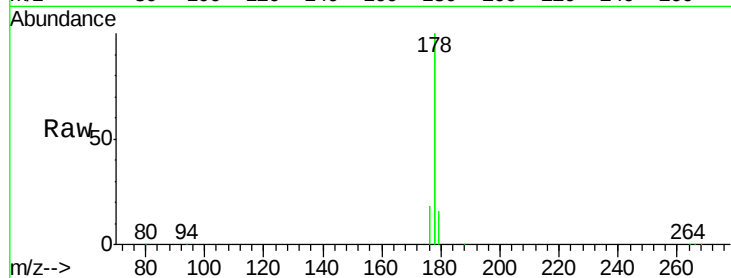
Tgt Ion:178 Resp: 155108

Ion Ratio Lower Upper

178 100

176 18.8 14.6 21.8

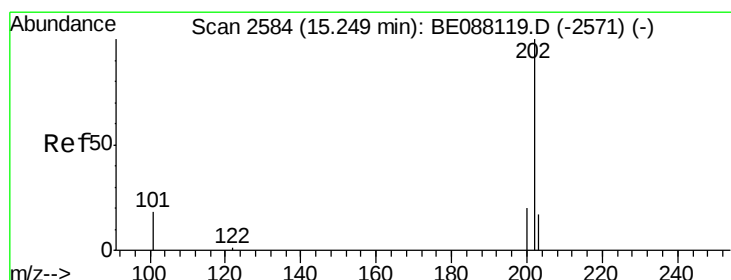
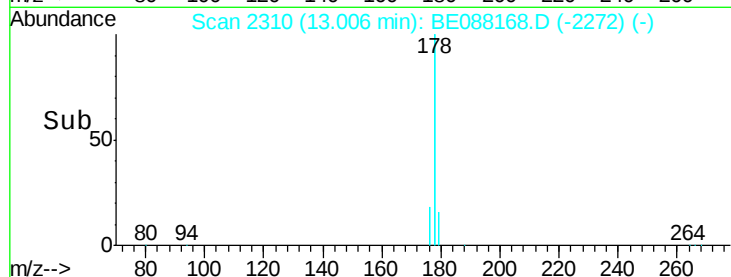
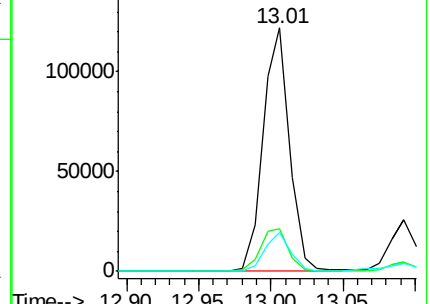
179 15.7 12.5 18.7



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: 5.25 ng

RT: 15.25 min Scan# 2584

Delta R.T. -0.00 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

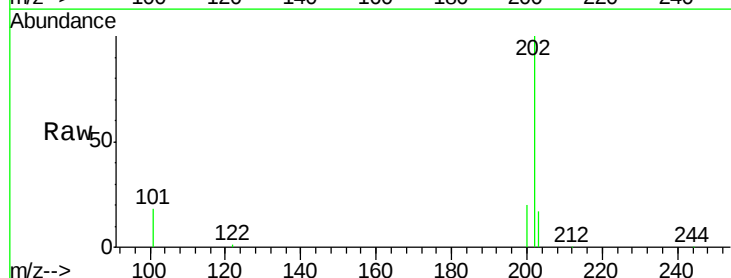
Tgt Ion:202 Resp: 64855

Ion Ratio Lower Upper

202 100

101 18.2 14.8 22.2

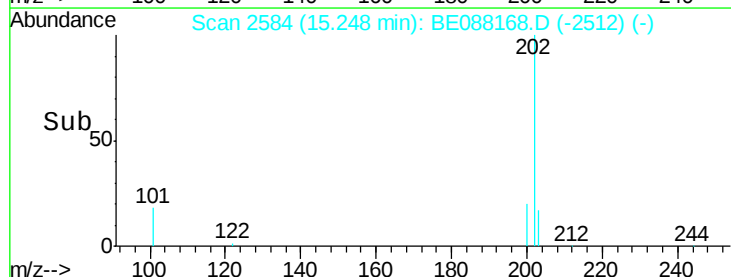
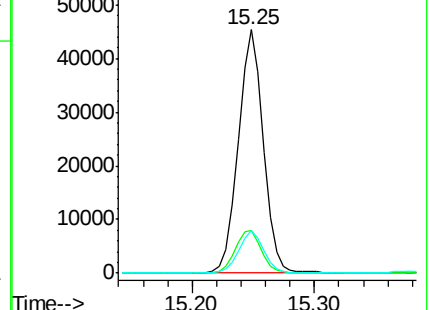
203 17.2 13.5 20.3

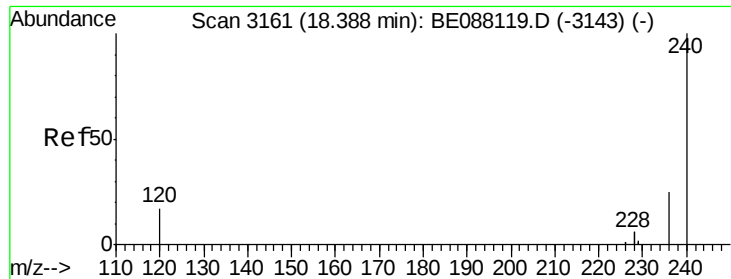


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E

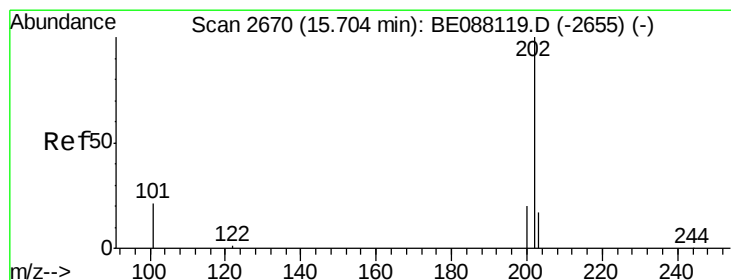
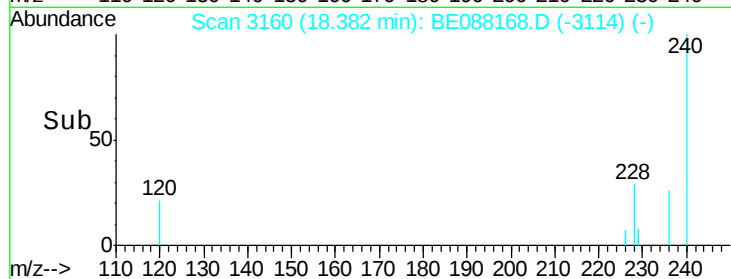
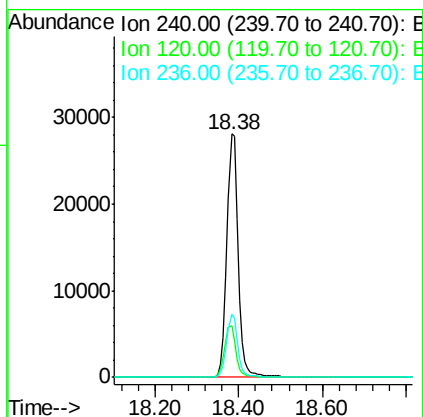
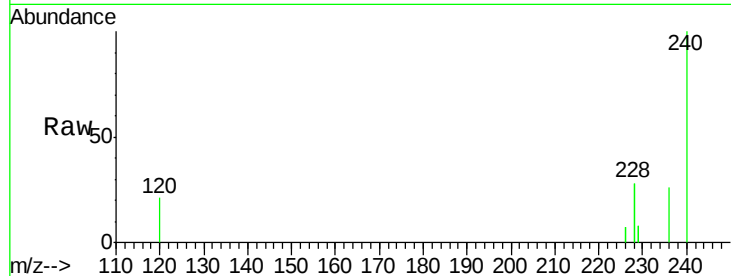




#16
Chrysene-d12
Concen: 5.00 ng
RT: 18.38 min Scan# 3160
Delta R.T. -0.01 min
Lab File: BE088168.D
Acq: 22 Oct 2014 6:55

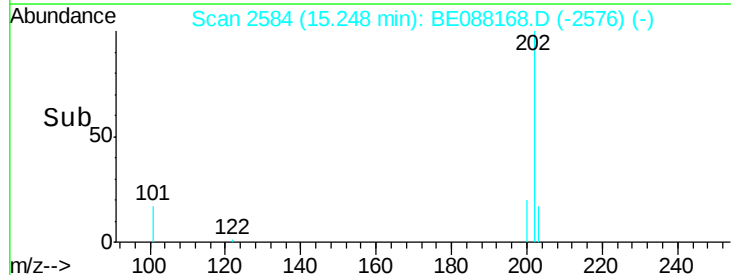
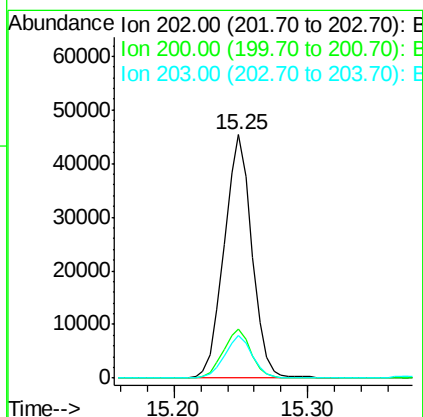
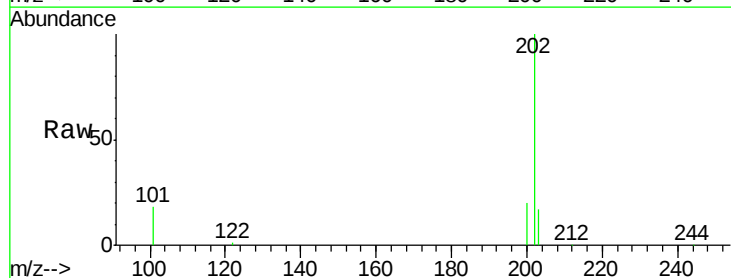
Instrument :
BNA_E
ClientSampleId :
YS19-SS02-1014

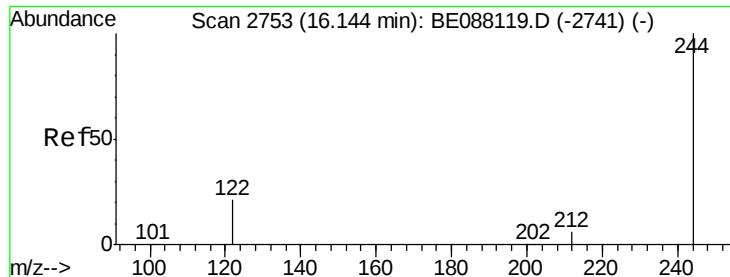
Tgt Ion: 240 Resp: 50582
Ion Ratio Lower Upper
240 100
120 21.3 13.9 20.9#
236 25.9 19.9 29.9



#17
Pyrene
Concen: 4.69 ng
RT: 15.25 min Scan# 2584
Delta R.T. -0.46 min
Lab File: BE088168.D
Acq: 22 Oct 2014 6:55

Tgt Ion: 202 Resp: 64552
Ion Ratio Lower Upper
202 100
200 20.0 16.1 24.1
203 17.3 13.9 20.9





#18

Terphenyl-d14

Concen: 12.68 ng

RT: 16.15 min Scan# 2754

Delta R.T. 0.00 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

Instrument :

BNA_E

ClientSampleId :

YS19-SS02-1014

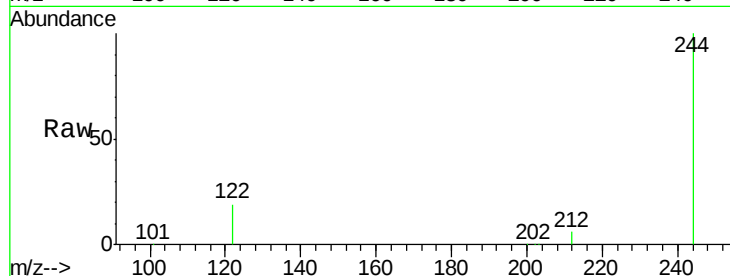
Tgt Ion:244 Resp: 103239

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.0

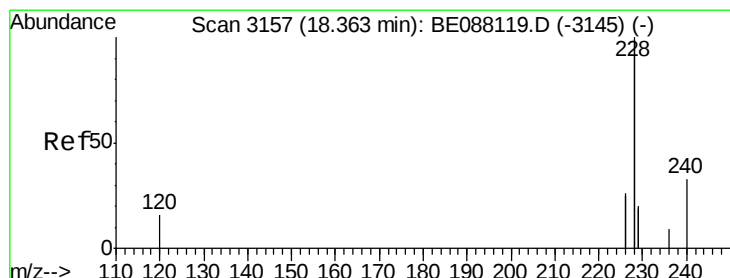
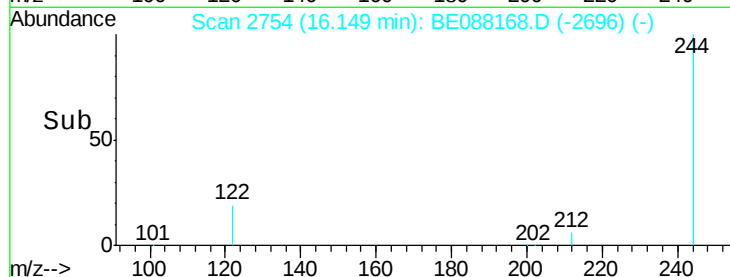
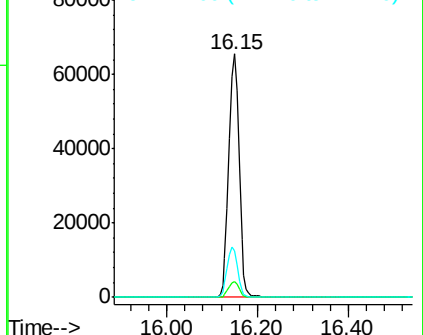
122 19.2 17.5 26.3



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: 2.22 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

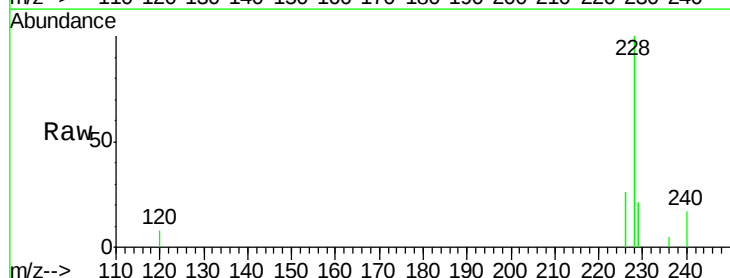
Tgt Ion:228 Resp: 99785

Ion Ratio Lower Upper

228 100

226 26.2 20.8 31.2

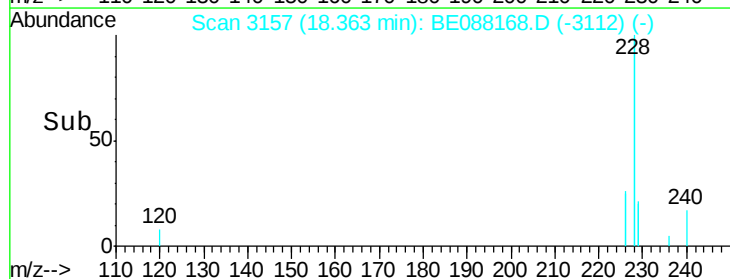
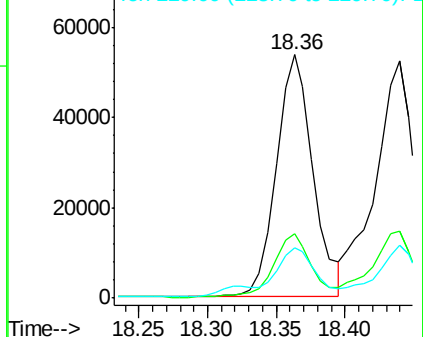
229 20.7 15.6 23.4

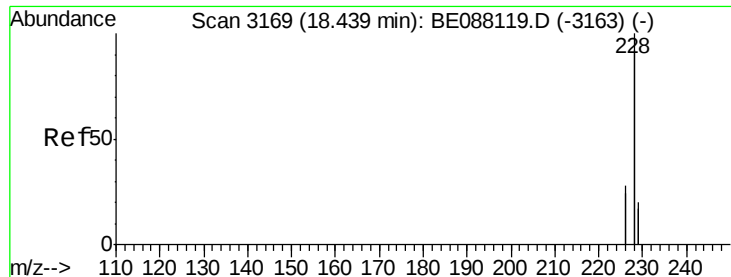


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 2.42 ng

RT: 18.44 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

Instrument :

BNA_E

ClientSampleId :

YS19-SS02-1014

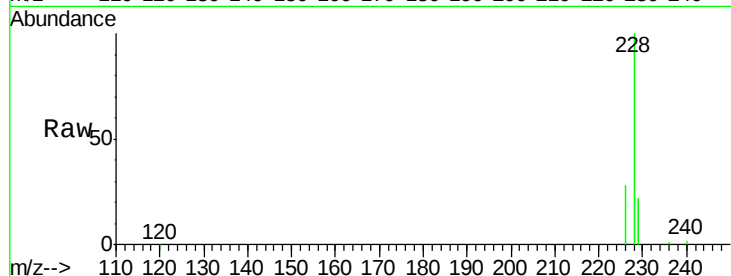
Tgt Ion:228 Resp: 106849

Ion Ratio Lower Upper

228 100

226 28.1 22.7 34.1

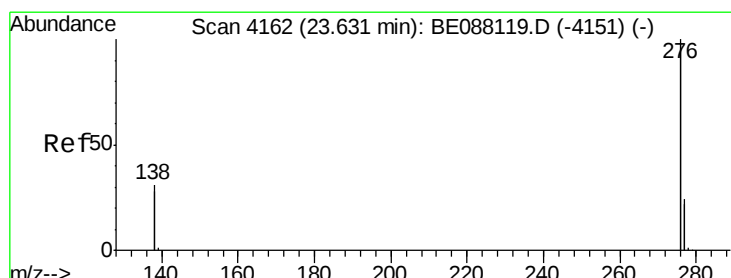
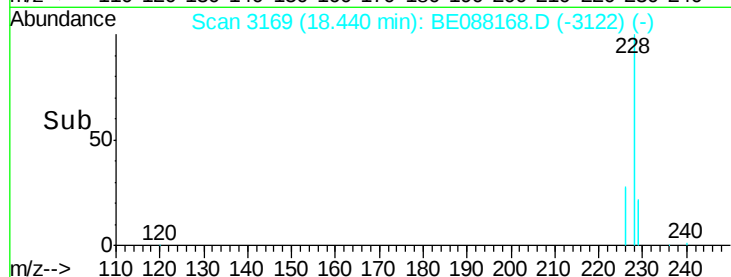
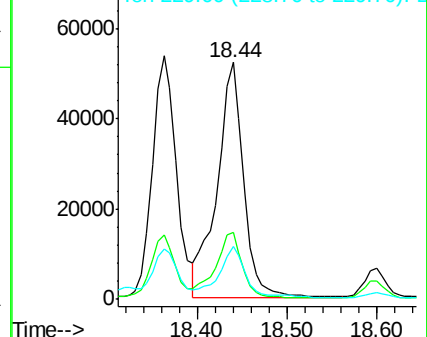
229 22.1 15.8 23.6



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: 1.16 ng

RT: 23.64 min Scan# 4163

Delta R.T. 0.01 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

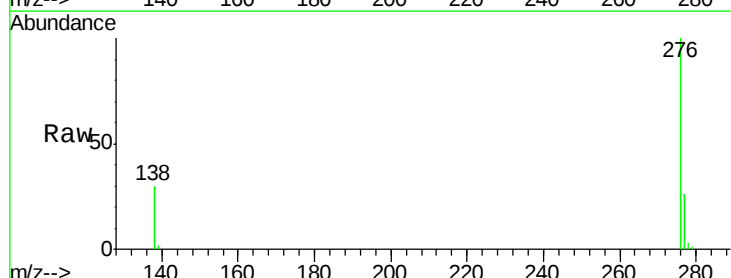
Tgt Ion:276 Resp: 56628

Ion Ratio Lower Upper

276 100

138 26.8 18.5 27.7

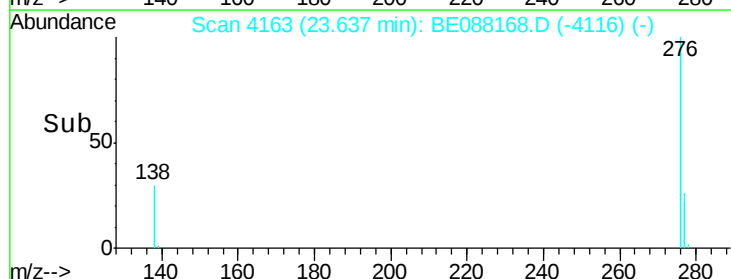
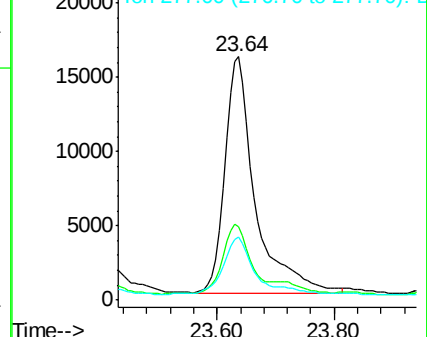
277 27.3 14.6 21.8#

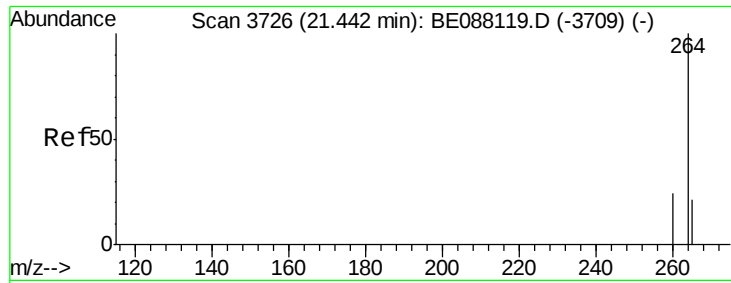


Abundance Ion 276.00 (275.70 to 276.70): E

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# 3726

Delta R.T. -0.00 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

Instrument :

BNA_E

ClientSampleId :

YS19-SS02-1014

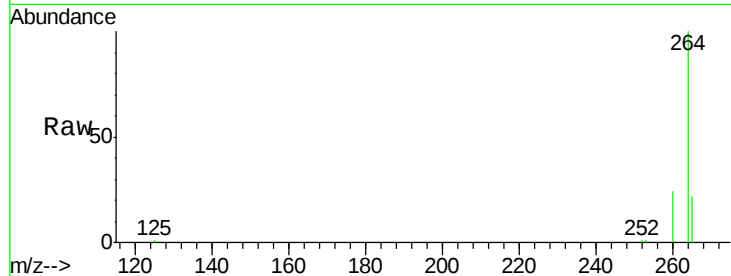
Tgt Ion:264 Resp: 43679

Ion Ratio Lower Upper

264 100

260 24.2 19.0 28.4

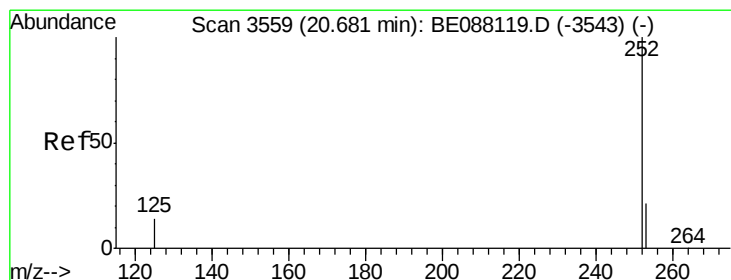
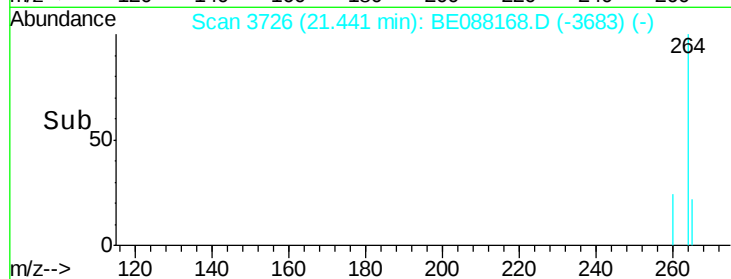
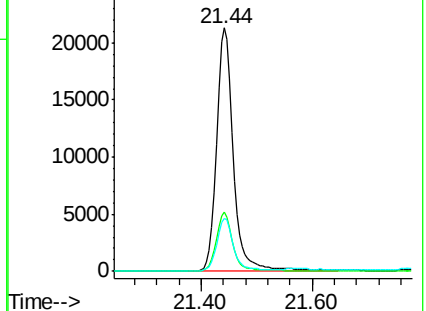
265 21.8 17.2 25.8



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: 2.86 ng

RT: 20.69 min Scan# 3560

Delta R.T. 0.00 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

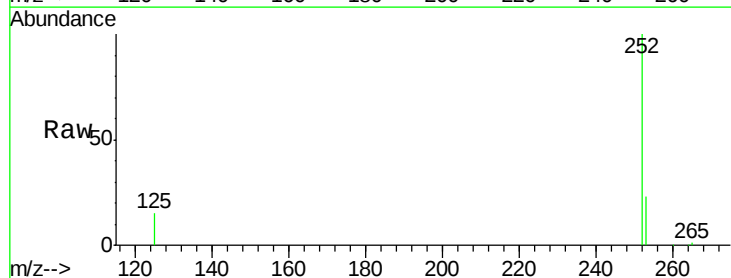
Tgt Ion:252 Resp: 29757

Ion Ratio Lower Upper

252 100

253 22.8 17.4 26.0

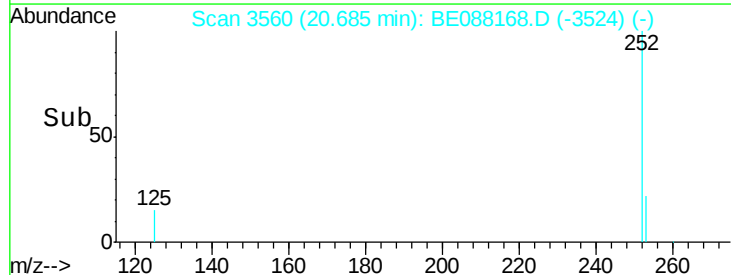
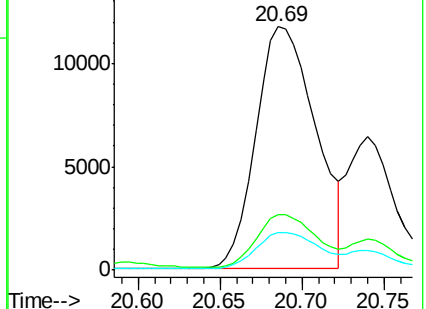
125 15.3 11.8 17.8

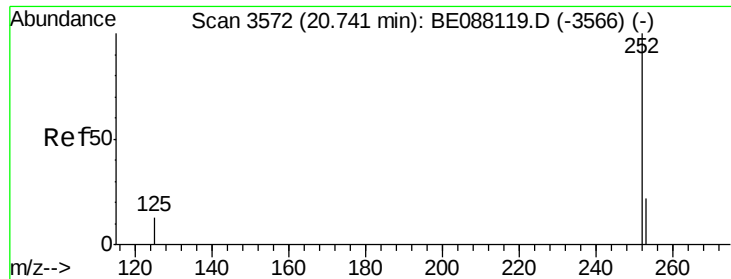


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#24

Benzo(k)fluoranthene

Concen: 1.20 ng

RT: 20.74 min Scan# 3572

Delta R.T. -0.00 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

Instrument :

BNA_E

ClientSampleId :

YS19-SS02-1014

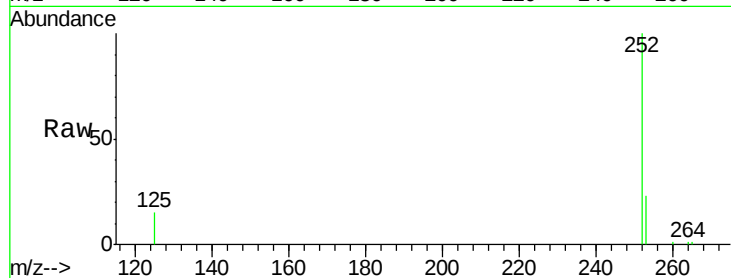
Tgt Ion:252 Resp: 13410

Ion Ratio Lower Upper

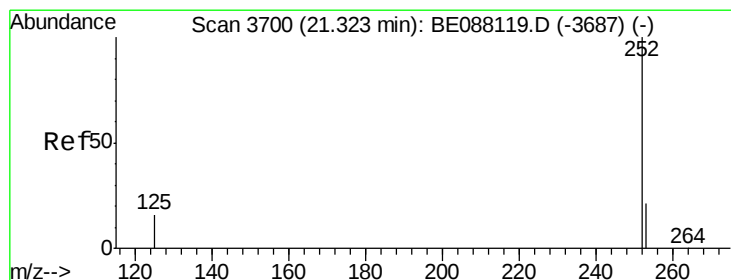
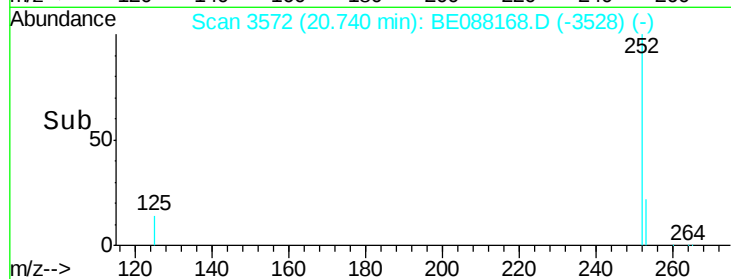
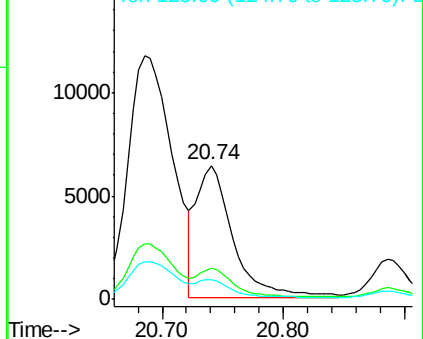
252 100

253 22.9 17.6 26.4

125 15.0 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: 2.08 ng

RT: 21.32 min Scan# 3700

Delta R.T. -0.00 min

Lab File: BE088168.D

Acq: 22 Oct 2014 6:55

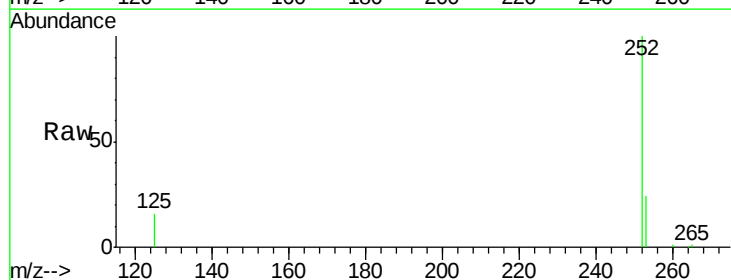
Tgt Ion:252 Resp: 19873

Ion Ratio Lower Upper

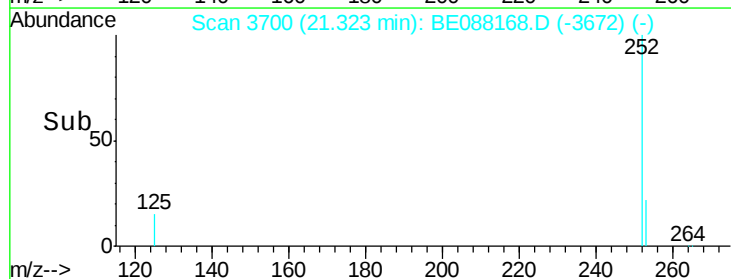
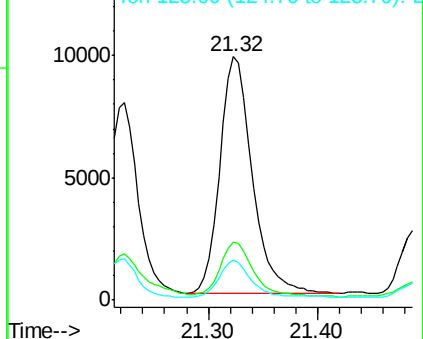
252 100

253 23.6 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

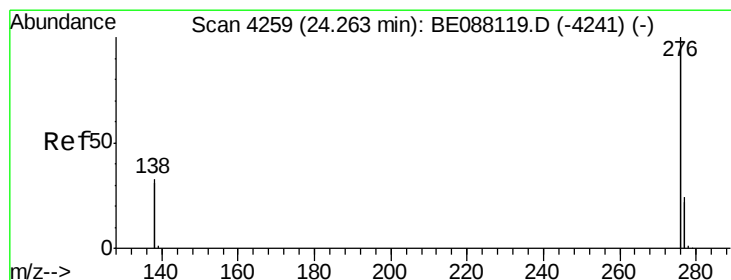
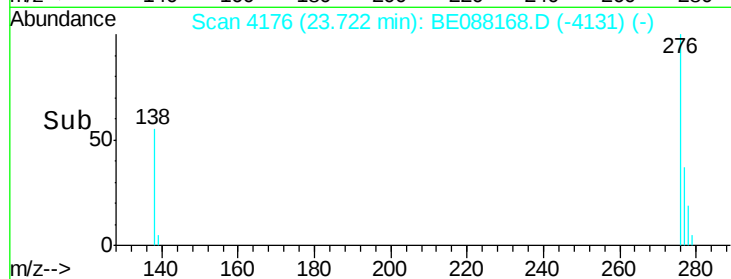
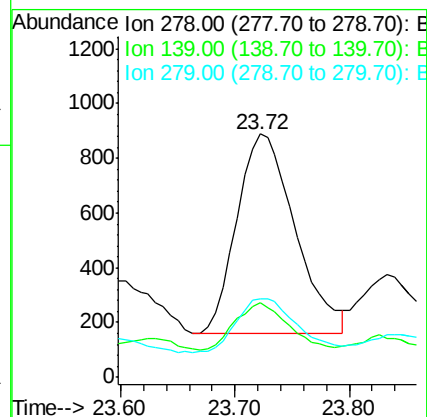
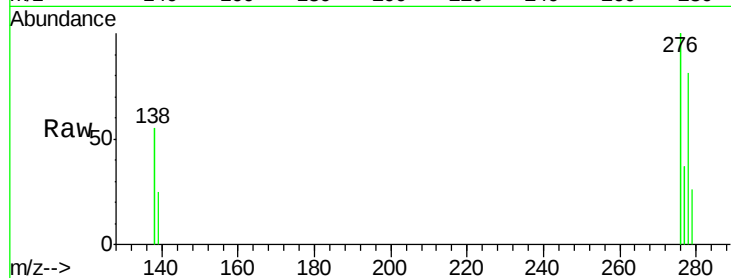




#26
Dibenzo(a,h)anthracene
Concen: 0.27 ng
RT: 23.72 min Scan# 4176
Delta R.T. -0.01 min
Lab File: BE088168.D
Acq: 22 Oct 2014 6:55

Instrument :
BNA_E
ClientSampleId :
YS19-SS02-1014

Tgt Ion: 278 Resp: 2581
Ion Ratio Lower Upper
278 100
139 30.8 20.9 31.3
279 32.2 19.8 29.8#



#27
Benzo(g,h,i)perylene
Concen: 1.39 ng
RT: 24.26 min Scan# 4259
Delta R.T. -0.00 min
Lab File: BE088168.D
Acq: 22 Oct 2014 6:55

Tgt Ion: 276 Resp: 57699
Ion Ratio Lower Upper
276 100
277 25.0 19.2 28.8
138 33.5 26.6 40.0

