

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE102114\
 Data File : BE088153.D
 Acq On : 21 Oct 2014 21:19
 Operator : TP/JJ
 Sample : F4351-14MS
 Misc :
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW10-1014MS

Quant Time: Oct 22 04:39:08 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	24661	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	99310	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	51779	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	101430	5.00	ng	0.00
16) Chrysene-d12	18.39	240	60337	5.00	ng	0.00
22) Perylene-d12	21.44	264	48185	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	43013	6.01	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	89373	6.25	ng	0.00
18) Terphenyl-d14	16.15	244	93012	9.58	ng	0.00

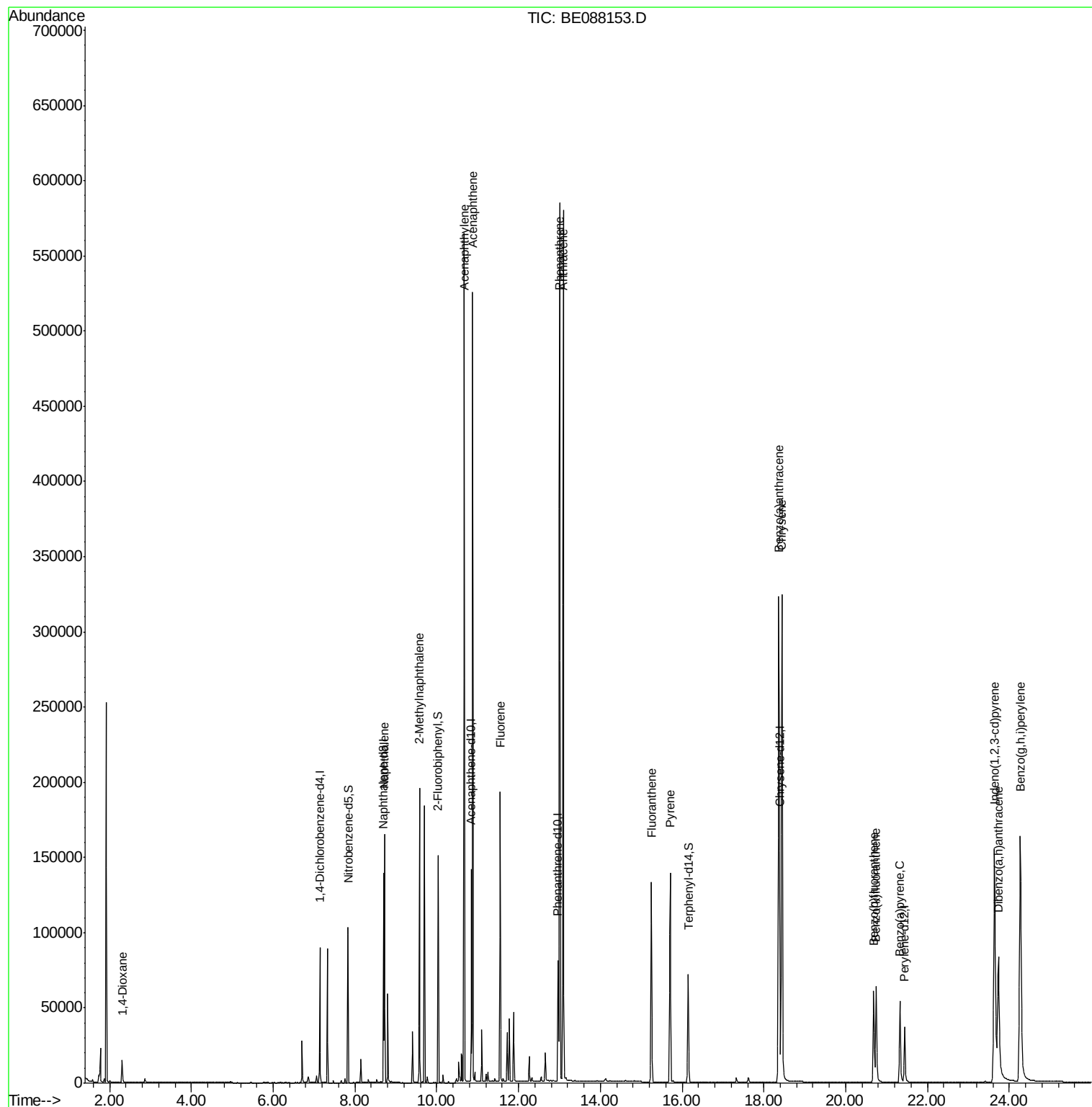
Target Compounds				Qvalue		
2) 1,4-Dioxane	2.31	88	8097	2.28	ng	# 86
5) Naphthalene	8.72	128	118609	5.79	ng	99
6) 2-Methylnaphthalene	9.58	142	79834	6.51	ng	95
9) Acenaphthylene	10.67	152	484203	6.14	ng	100
10) Acenaphthene	10.88	154	72580	5.96	ng	100
11) Fluorene	11.55	166	88397	6.85	ng	100
13) Phenanthrene	13.01	178	534524	7.25	ng	95
14) Anthracene	13.09	178	537626	6.79	ng	99
15) Fluoranthene	15.25	202	129428	6.71	ng	99
17) Pyrene	15.71	202	133774	8.15	ng	99
19) Benzo(a)anthracene	18.36	228	396848	7.40	ng	100
20) Chrysene	18.44	228	385744	7.33	ng	99
21) Indeno(1,2,3-cd)pyrene	23.64	276	287257	4.91	ng	# 88
23) Benzo(b)fluoranthene	20.69	252	86262	7.52	ng	99
24) Benzo(k)fluoranthene	20.75	252	91997	7.49	ng	99
25) Benzo(a)pyrene	21.32	252	81313	7.70	ng	99
26) Dibenzo(a,h)anthracene	23.74	278	75494	7.29	ng	97
27) Benzo(g,h,i)perylene	24.27	276	335525	7.33	ng	98

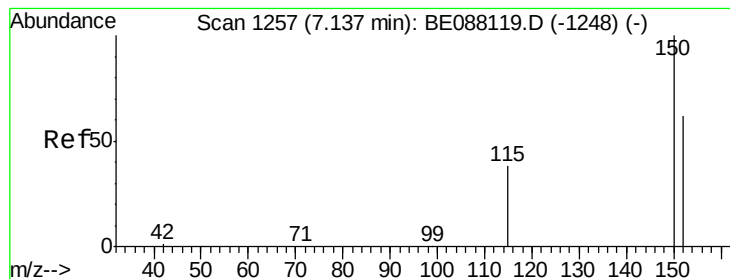
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088153.D

Acq: 21 Oct 2014 21:19

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014MS

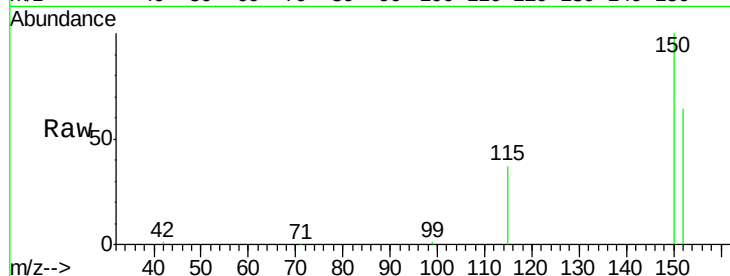
Tgt Ion:152 Resp: 24661

Ion Ratio Lower Upper

152 100

150 155.6 129.2 193.8

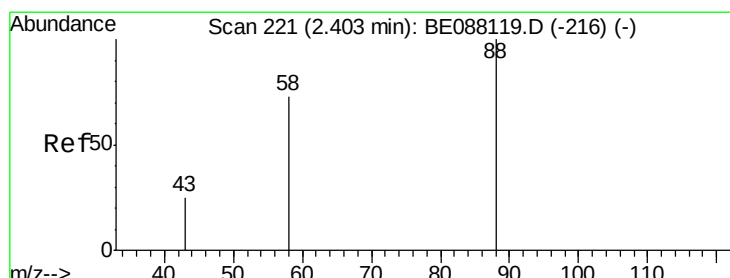
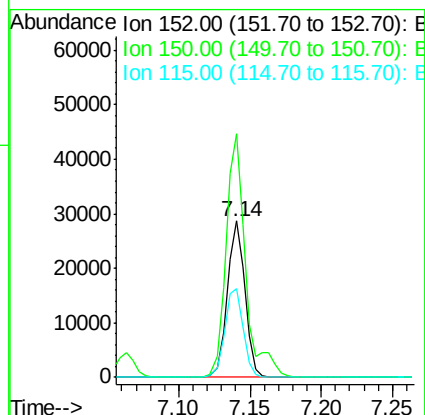
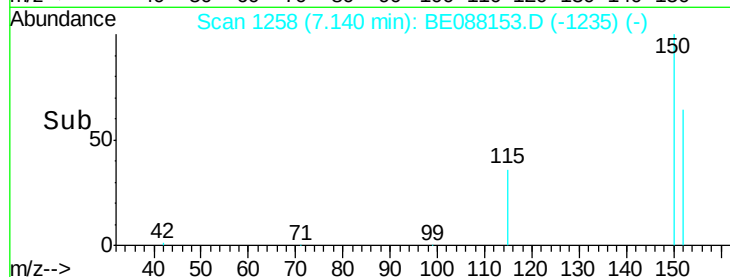
115 56.9 49.3 73.9



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: 2.28 ng

RT: 2.31 min Scan# 200

Delta R.T. -0.10 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

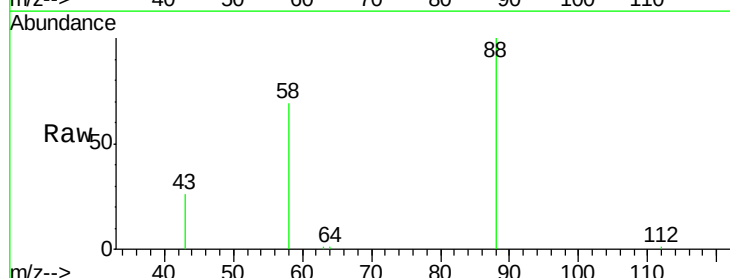
Tgt Ion: 88 Resp: 8097

Ion Ratio Lower Upper

88 100

58 75.0 59.5 89.3

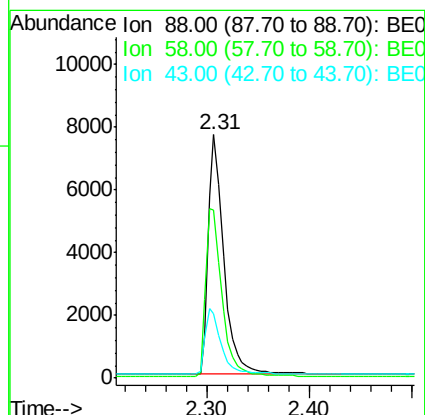
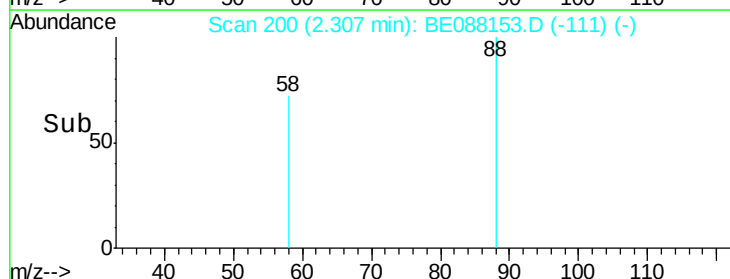
43 0.0 21.2 31.8#

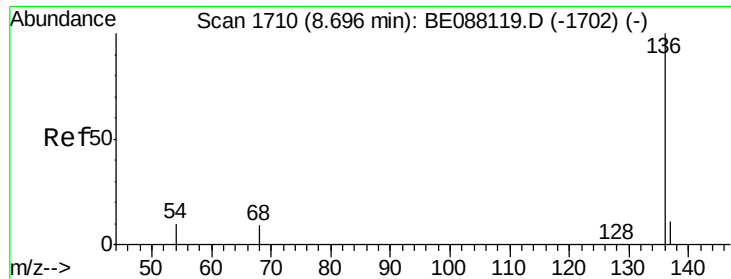


Abundance Ion 88.00 (87.70 to 88.70): BE0

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# 1711

Delta R.T. 0.01 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014MS

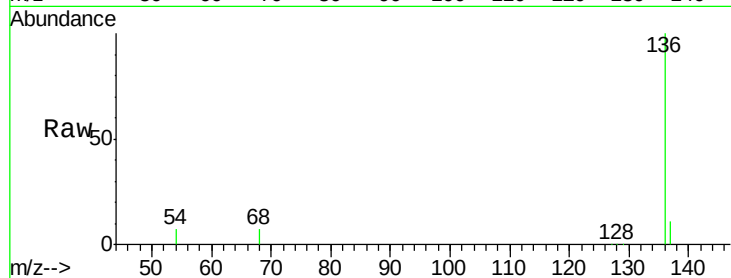
Tgt Ion: 136 Resp: 99310

Ion Ratio Lower Upper

136 100

137 11.0 8.6 12.8

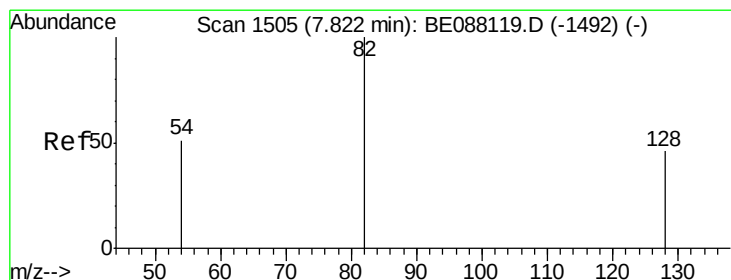
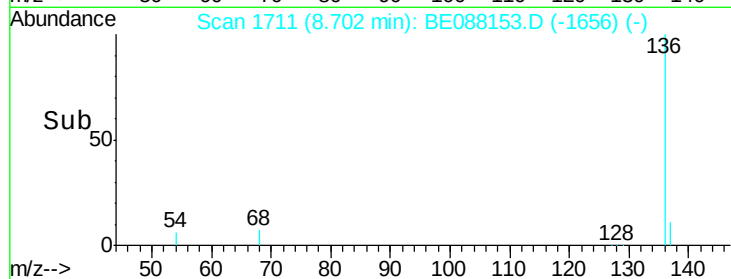
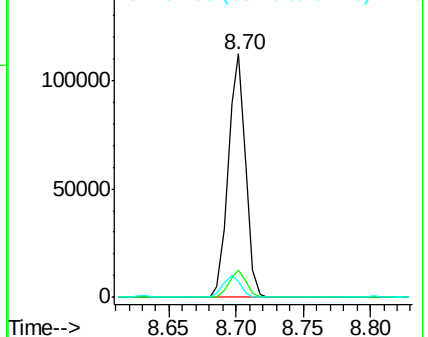
54 6.6 7.7 11.5#



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: 6.01 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

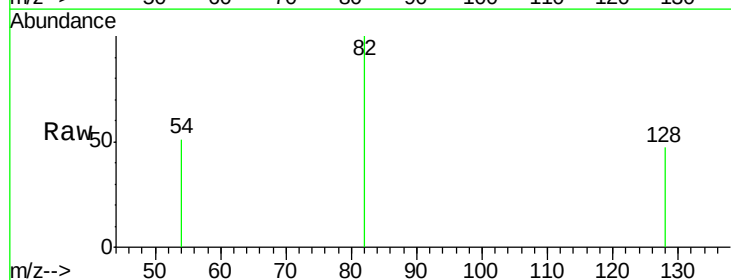
Tgt Ion: 82 Resp: 43013

Ion Ratio Lower Upper

82 100

128 47.5 37.1 55.7

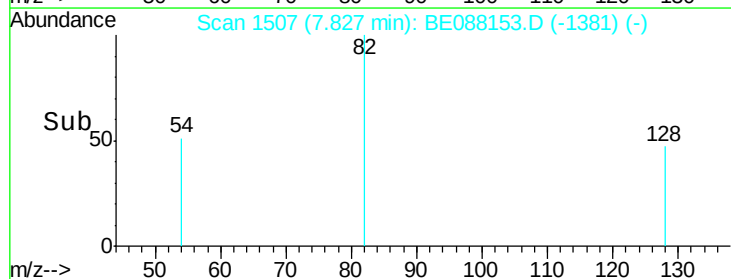
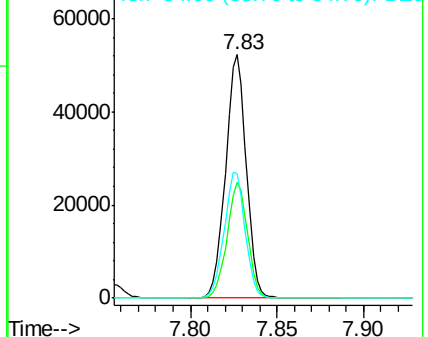
54 51.0 41.1 61.7

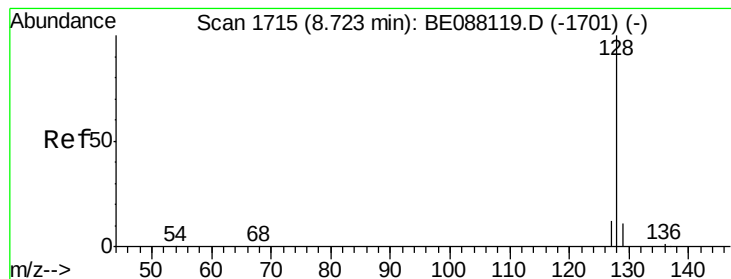


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 5.79 ng

RT: 8.72 min Scan# 1715

Delta R.T. 0.00 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014MS

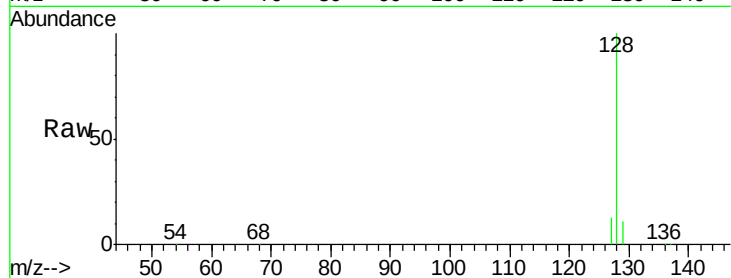
Tgt Ion:128 Resp: 118609

Ion Ratio Lower Upper

128 100

129 10.7 8.9 13.3

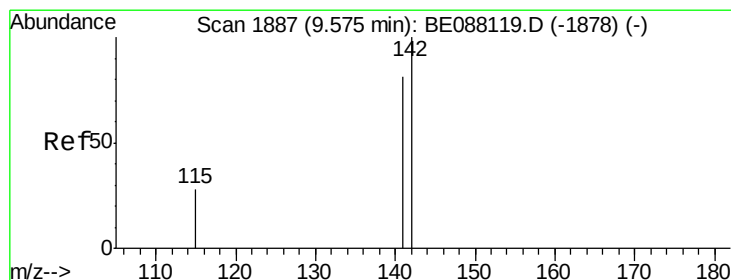
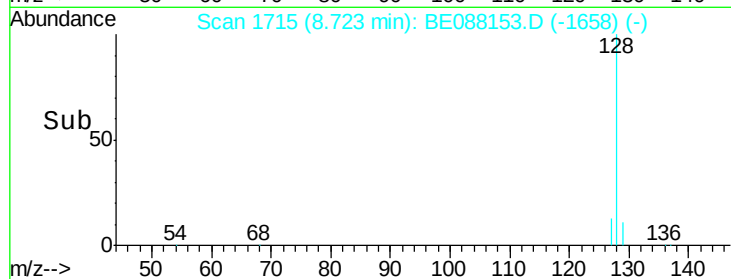
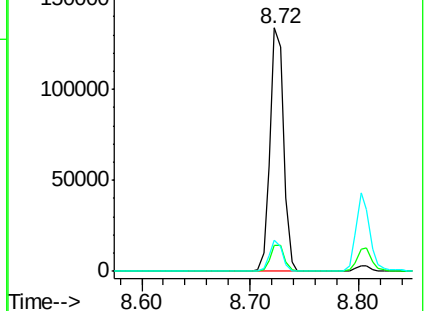
127 12.8 9.7 14.5



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: 6.51 ng

RT: 9.58 min Scan# 1887

Delta R.T. 0.00 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

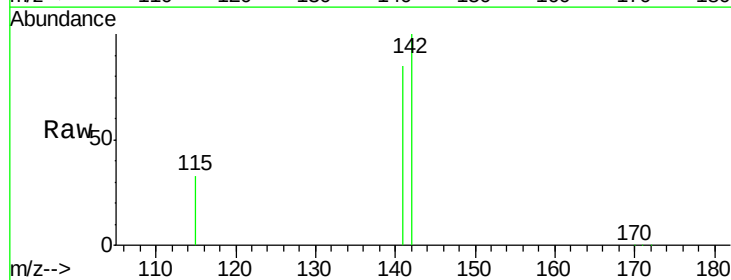
Tgt Ion:142 Resp: 79834

Ion Ratio Lower Upper

142 100

141 84.7 64.6 97.0

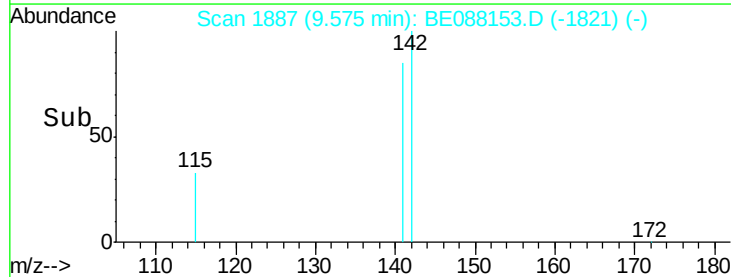
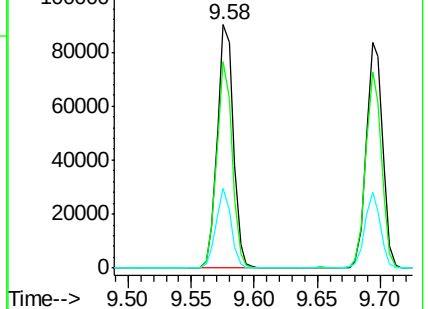
115 32.6 22.6 34.0

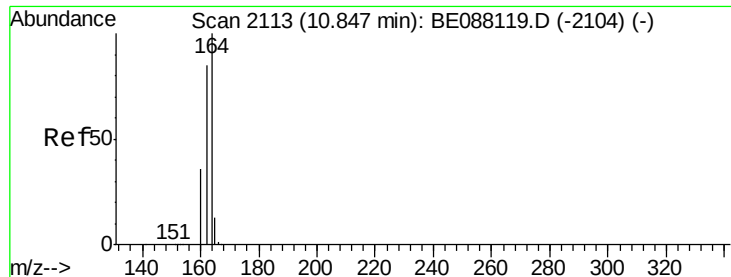


Abundance Ion 142.00 (141.70 to 142.70): E

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: BE088153.D

Acq: 21 Oct 2014 21:19

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014MS

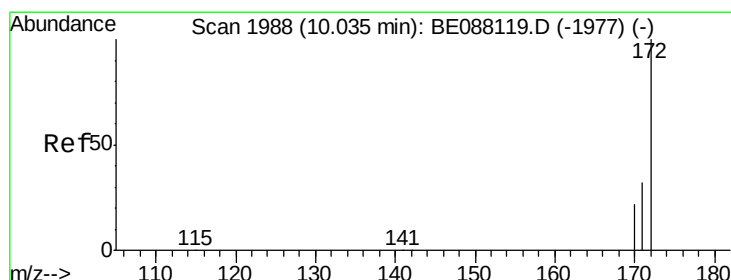
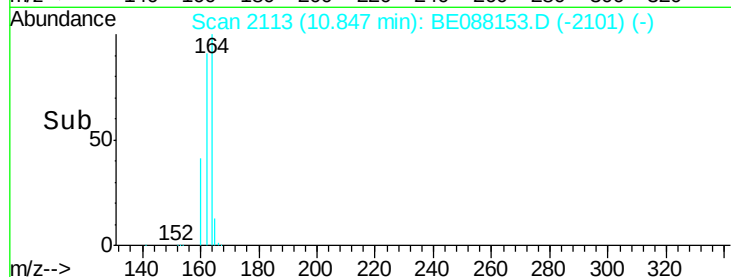
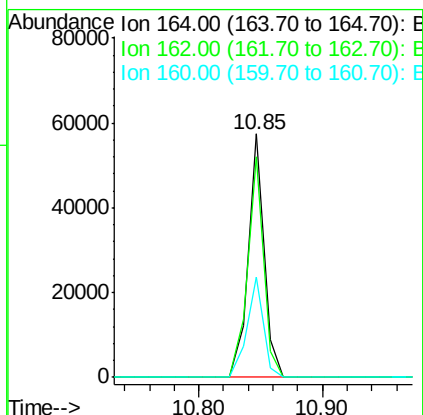
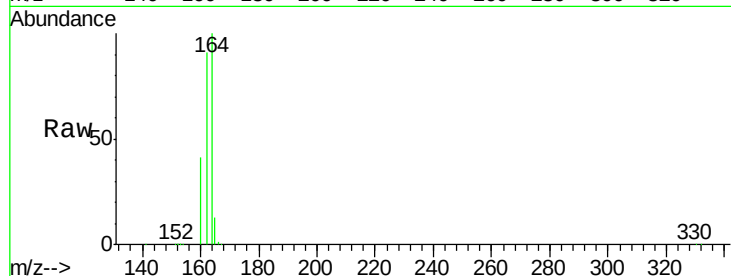
Tgt Ion:164 Resp: 51779

Ion Ratio Lower Upper

164 100

162 90.7 68.3 102.5

160 41.1 28.7 43.1



#8

2-Fluorobiphenyl

Concen: 6.25 ng

RT: 10.04 min Scan# 1988

Delta R.T. 0.00 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

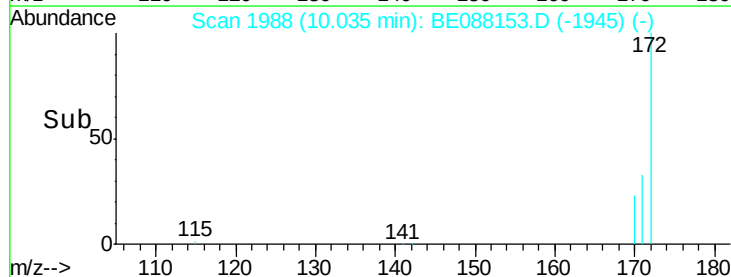
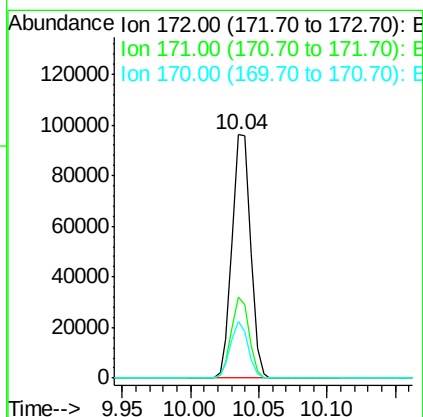
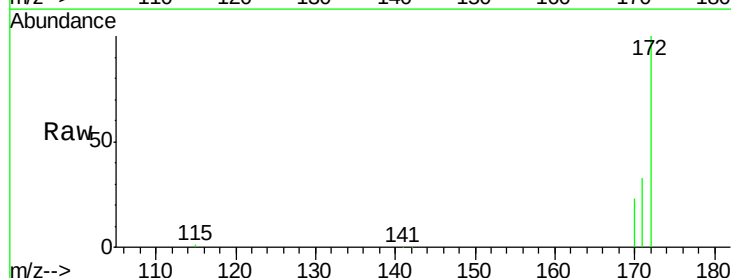
Tgt Ion:172 Resp: 89373

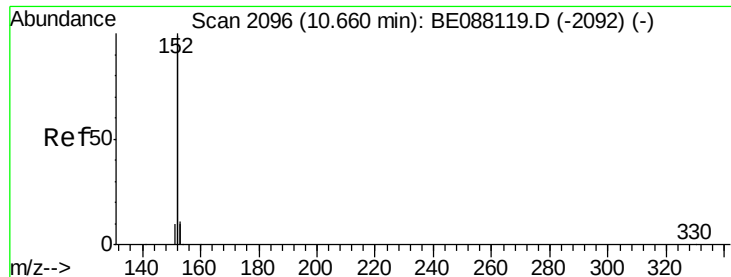
Ion Ratio Lower Upper

172 100

171 33.2 25.4 38.2

170 23.4 17.4 26.2





#9

Acenaphthylene

Concen: 6.14 ng

RT: 10.67 min Scan# 2097

Delta R.T. 0.01 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014MS

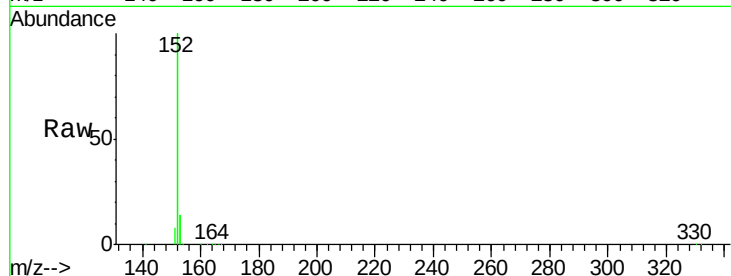
Tgt Ion:152 Resp: 484203

Ion Ratio Lower Upper

152 100

151 4.6 3.7 5.5

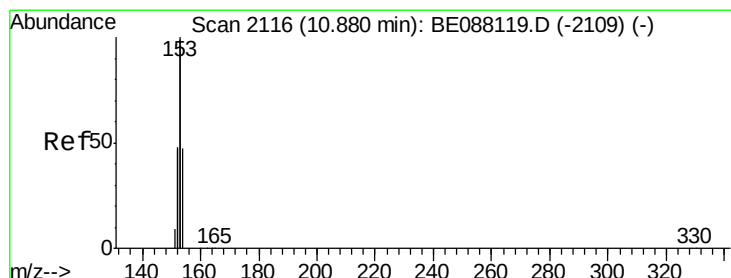
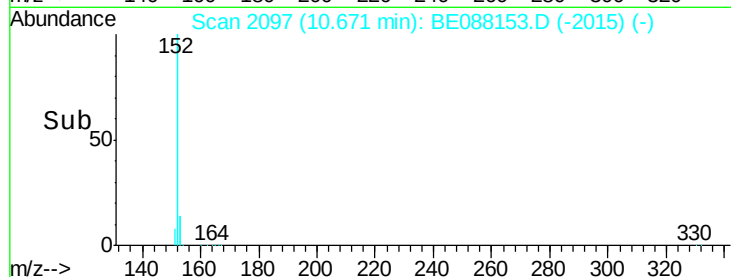
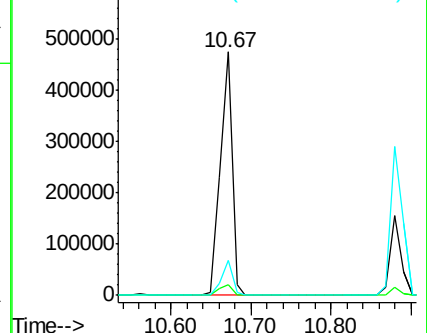
153 13.1 10.4 15.6



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: 5.96 ng

RT: 10.88 min Scan# 2116

Delta R.T. -0.00 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

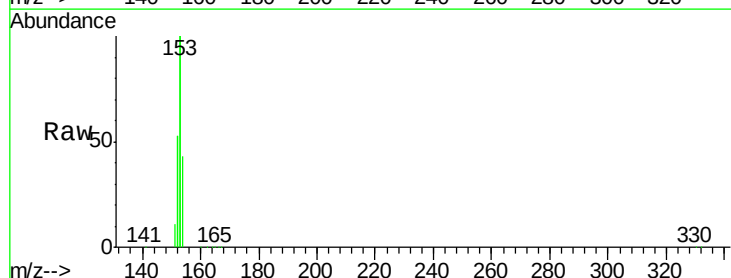
Tgt Ion:154 Resp: 72580

Ion Ratio Lower Upper

154 100

153 410.9 327.8 491.6

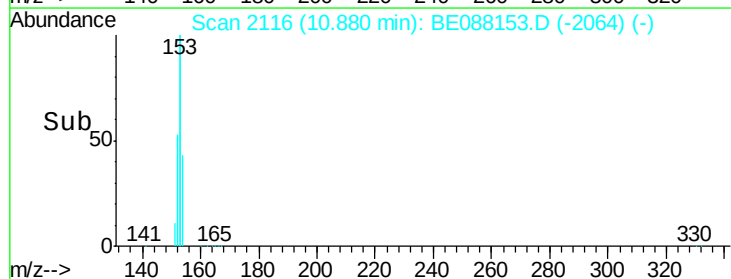
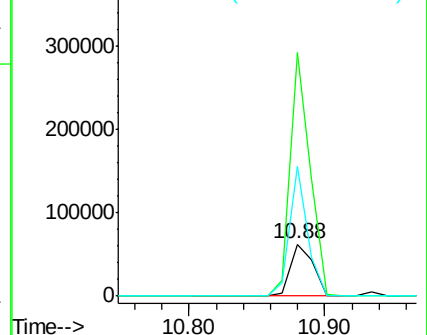
152 197.8 157.6 236.4

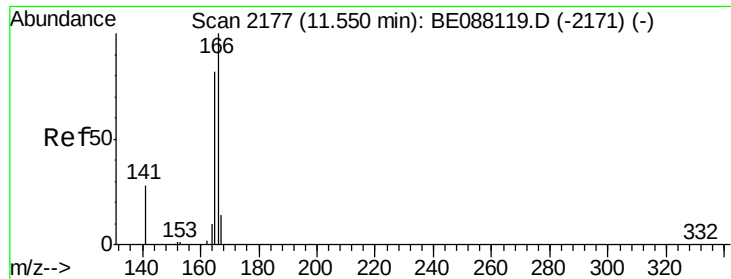


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E





#11

Fluorene

Concen: 6.85 ng

RT: 11.55 min Scan# 2177

Delta R.T. -0.00 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

Instrument :

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ClientSampleId :

YS19-SW10-1014MS

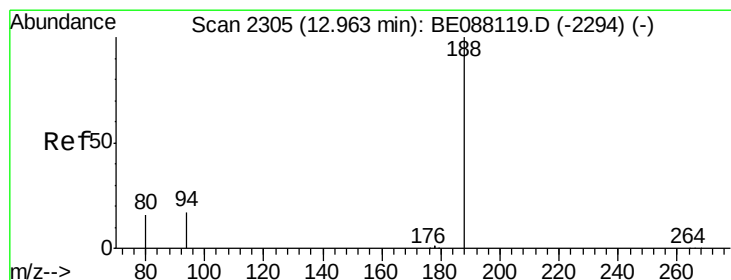
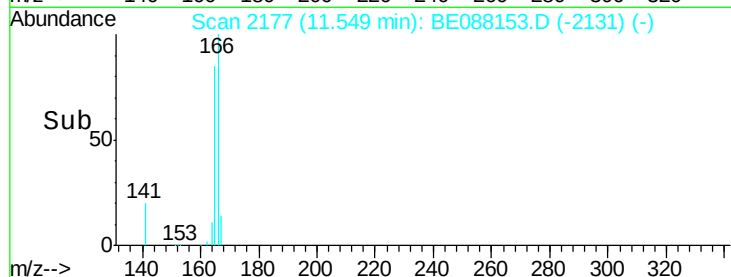
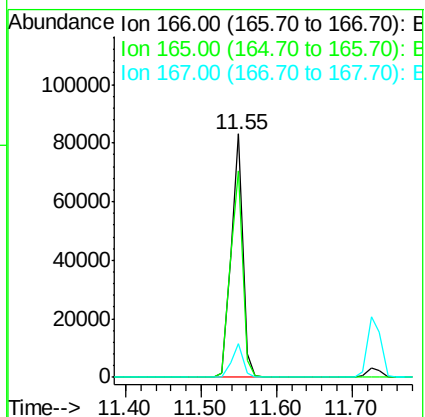
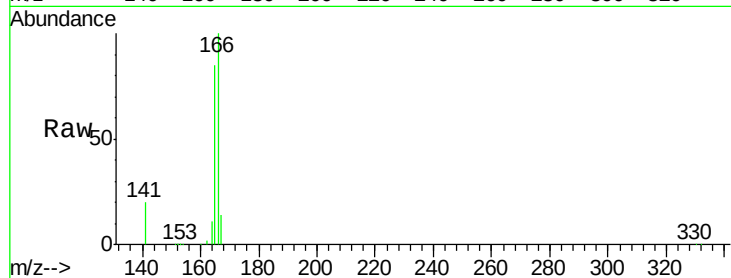
Tgt Ion:166 Resp: 88397

Ion Ratio Lower Upper

166 100

165 89.6 71.4 107.2

167 13.5 10.6 16.0



#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.97 min Scan# 2306

Delta R.T. 0.01 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

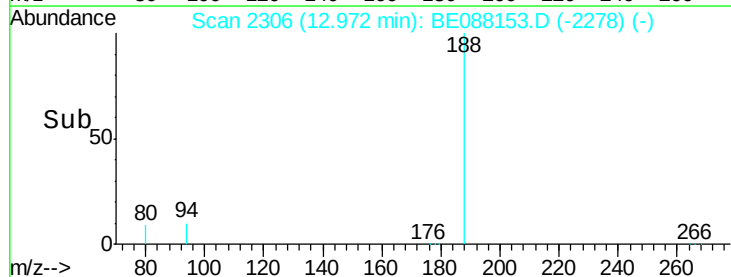
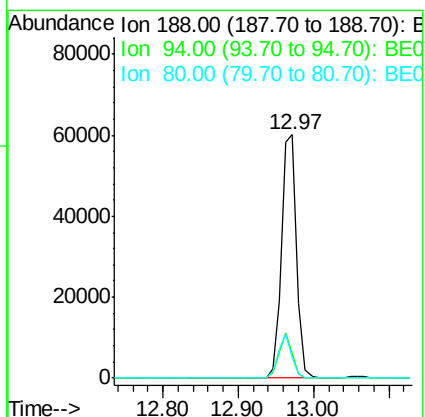
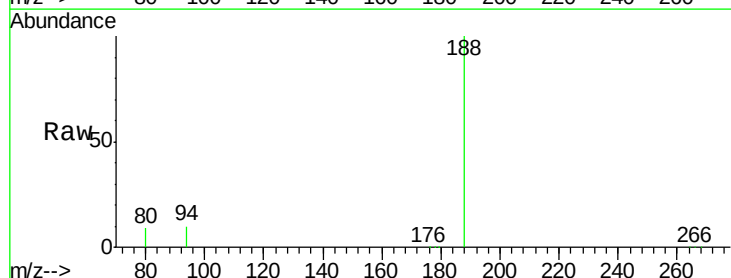
Tgt Ion:188 Resp: 101430

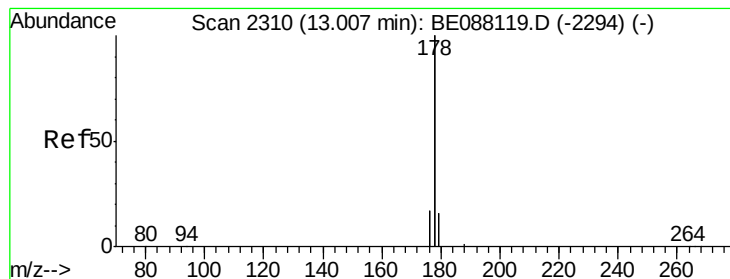
Ion Ratio Lower Upper

188 100

94 10.0 13.9 20.9#

80 8.8 12.9 19.3#





#13

Phenanthrene

Concen: 7.25 ng

RT: 13.01 min Scan# 2310

Delta R.T. 0.00 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014MS

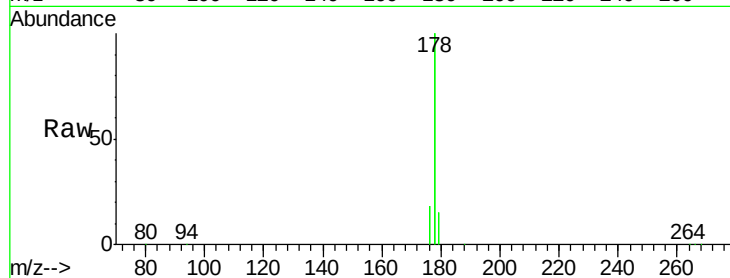
Tgt Ion:178 Resp: 534524

Ion Ratio Lower Upper

178 100

176 18.6 12.5 18.7

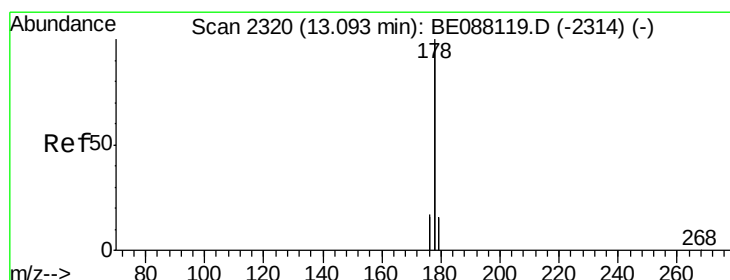
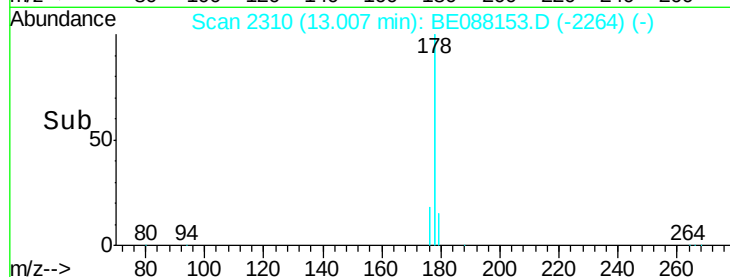
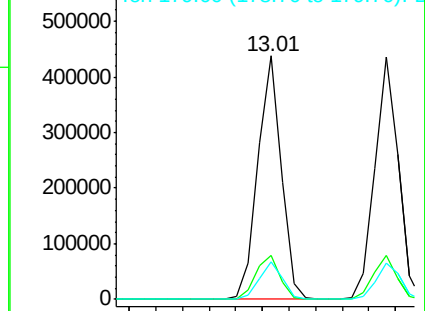
179 15.3 13.5 20.3



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: 6.79 ng

RT: 13.09 min Scan# 2320

Delta R.T. -0.00 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

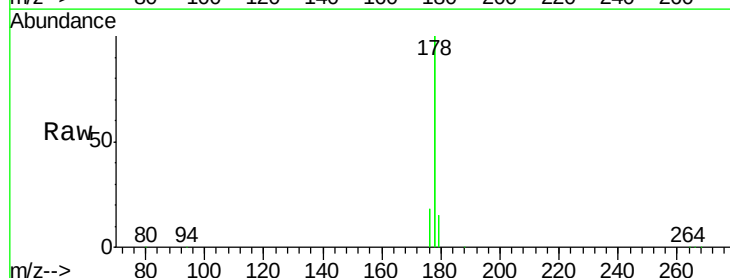
Tgt Ion:178 Resp: 537626

Ion Ratio Lower Upper

178 100

176 18.0 14.6 21.8

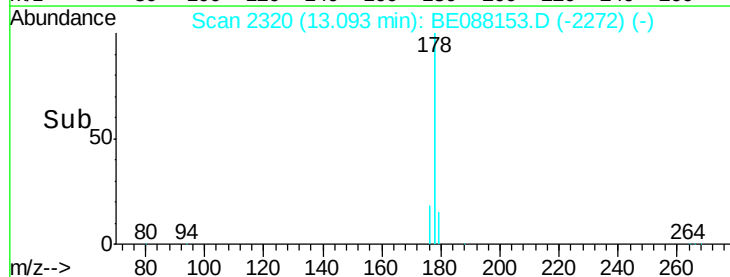
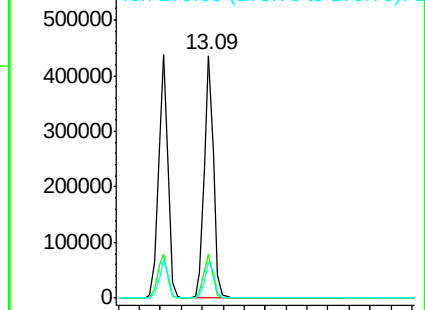
179 15.2 12.5 18.7

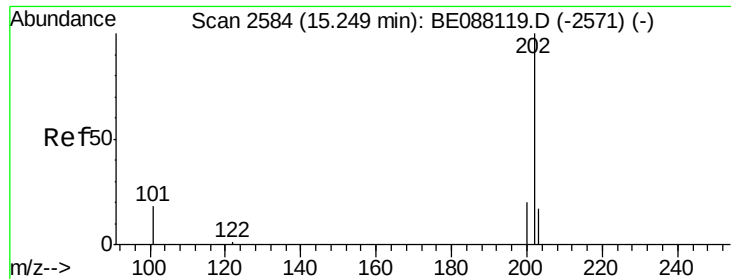


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

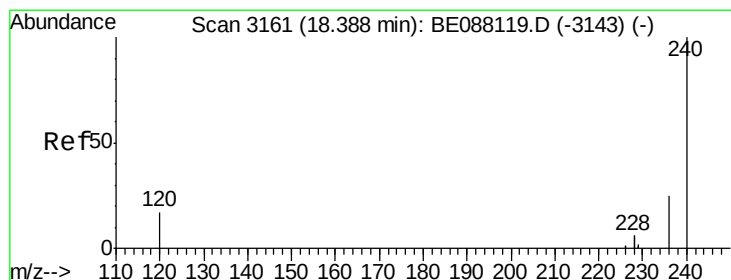
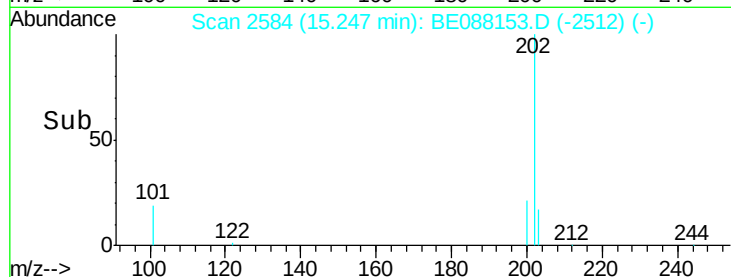
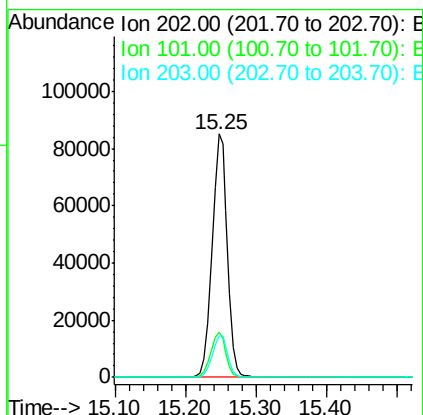
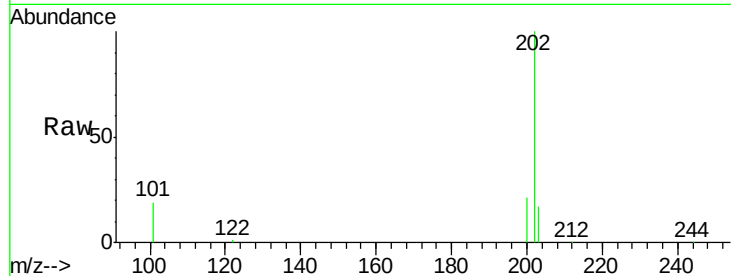




#15
 Fluoranthene
 Concen: 6.71 ng
 RT: 15.25 min Scan# 2584
 Delta R.T. -0.00 min
 Lab File: BE088153.D
 Acq: 21 Oct 2014 21:19

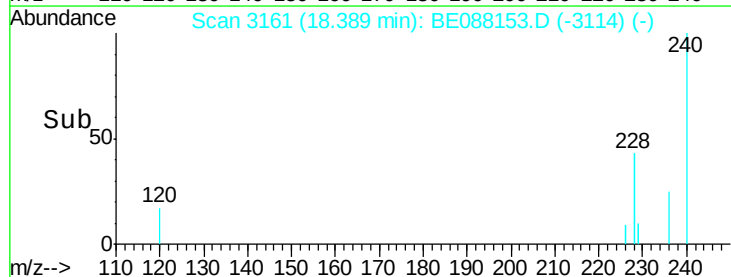
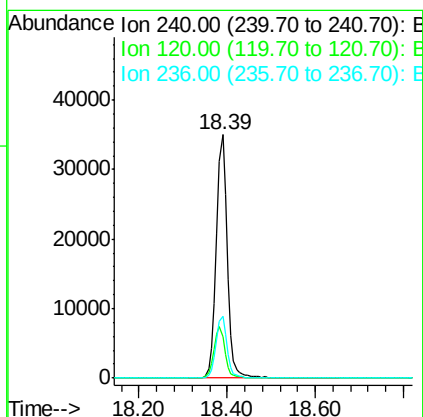
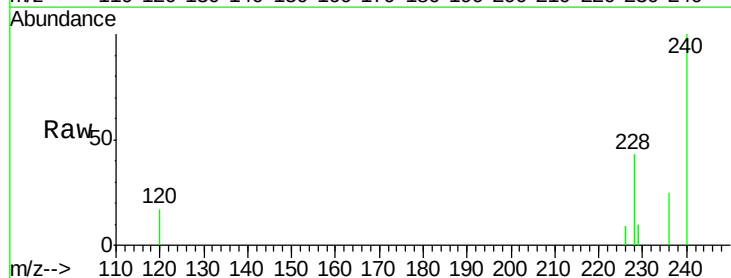
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SW10-1014MS

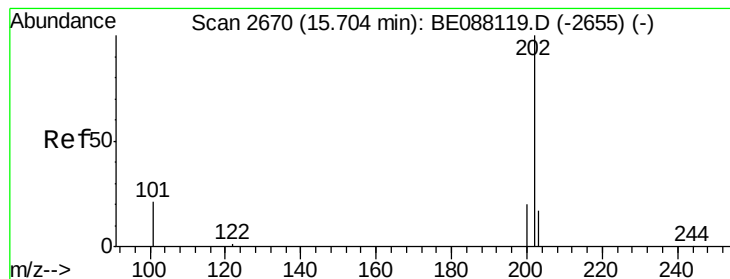
Tgt Ion: 202 Resp: 129428
 Ion Ratio Lower Upper
 202 100
 101 18.3 14.8 22.2
 203 17.2 13.5 20.3



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.39 min Scan# 3161
 Delta R.T. 0.00 min
 Lab File: BE088153.D
 Acq: 21 Oct 2014 21:19

Tgt Ion: 240 Resp: 60337
 Ion Ratio Lower Upper
 240 100
 120 16.8 13.9 20.9
 236 25.2 19.9 29.9





#17

Pyrene

Concen: 8.15 ng

RT: 15.71 min Scan# 2671

Delta R.T. 0.00 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014MS

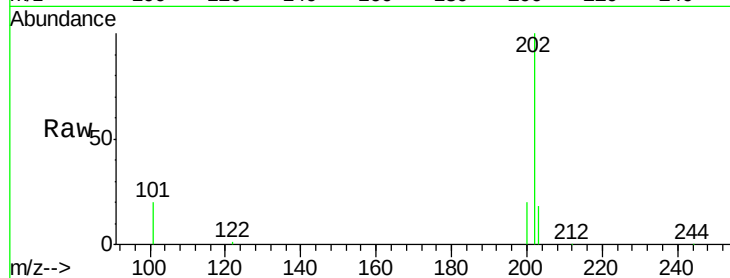
Tgt Ion: 202 Resp: 133774

Ion Ratio Lower Upper

202 100

200 20.1 16.1 24.1

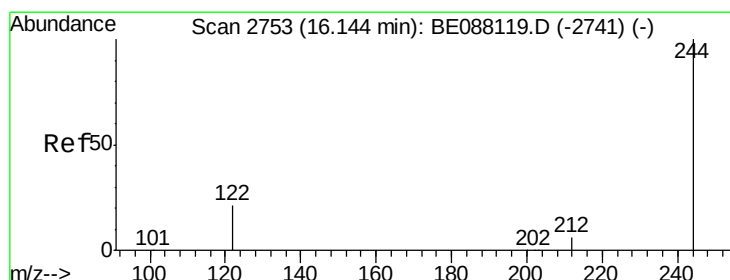
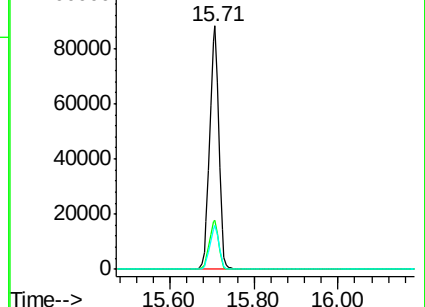
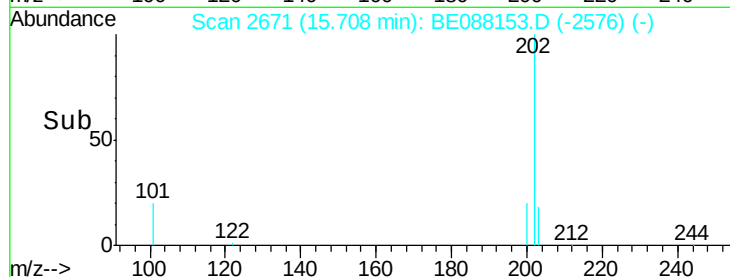
203 18.0 13.9 20.9



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: 9.58 ng

RT: 16.15 min Scan# 2754

Delta R.T. 0.00 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

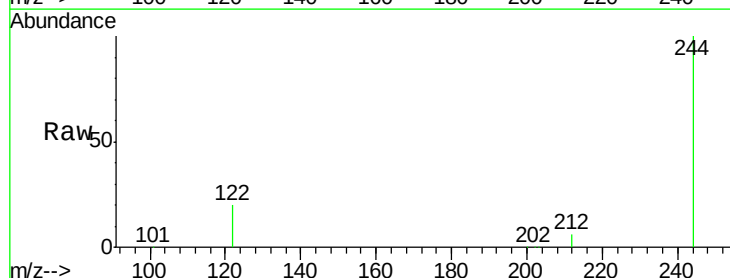
Tgt Ion: 244 Resp: 93012

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.0

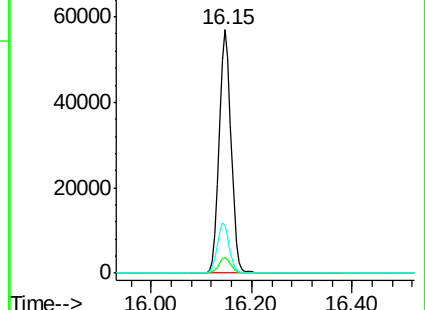
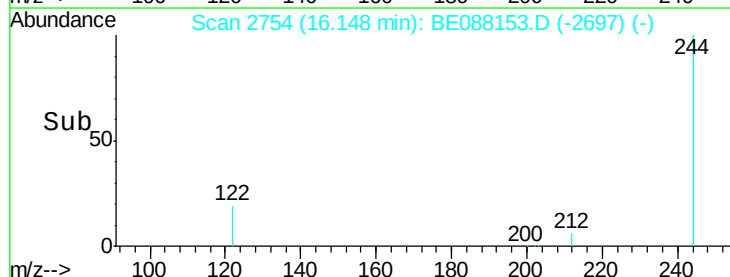
122 19.6 17.5 26.3

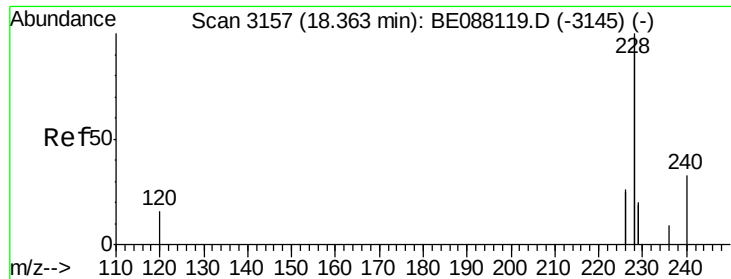


Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E





#19

Benzo(a)anthracene

Concen: 7.40 ng

RT: 18.36 min Scan# 3157

Delta R.T. 0.00 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014MS

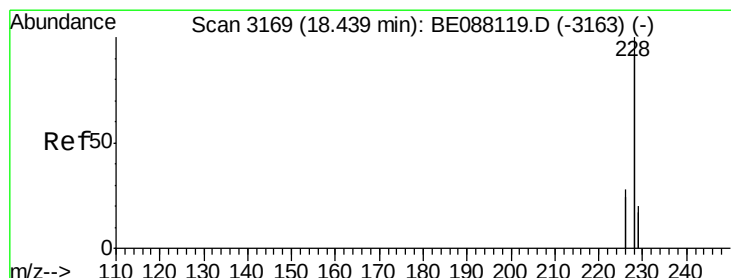
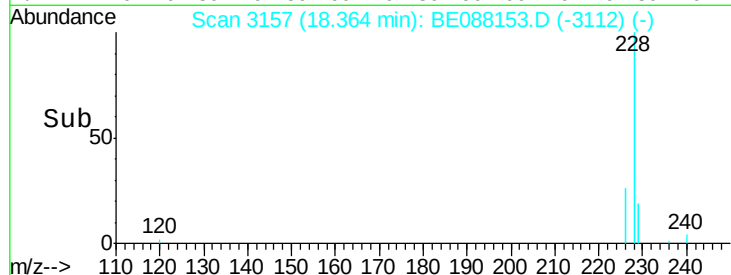
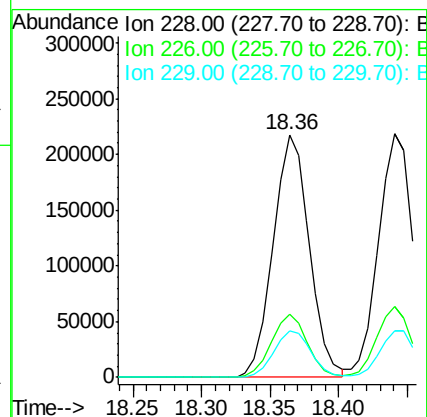
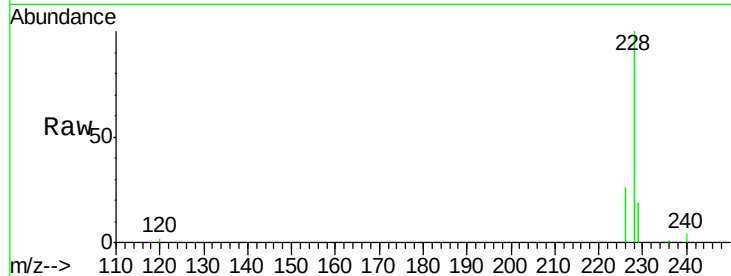
Tgt Ion:228 Resp: 396848

Ion Ratio Lower Upper

228 100

226 25.9 20.8 31.2

229 19.4 15.6 23.4



#20

Chrysene

Concen: 7.33 ng

RT: 18.44 min Scan# 3169

Delta R.T. 0.00 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

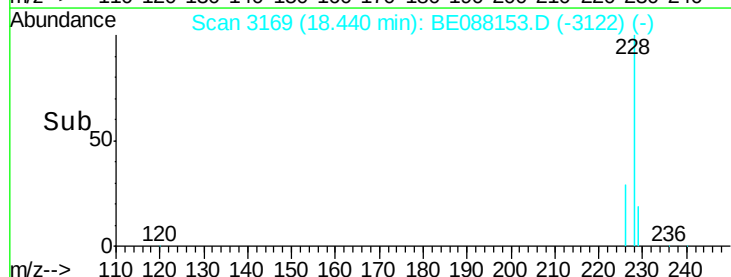
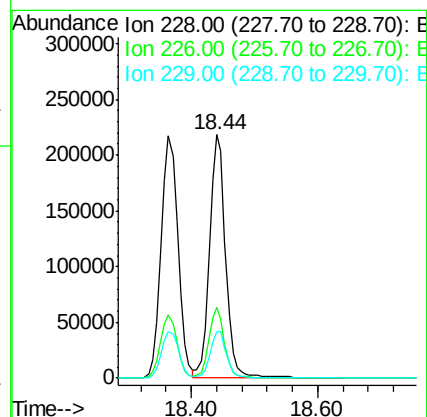
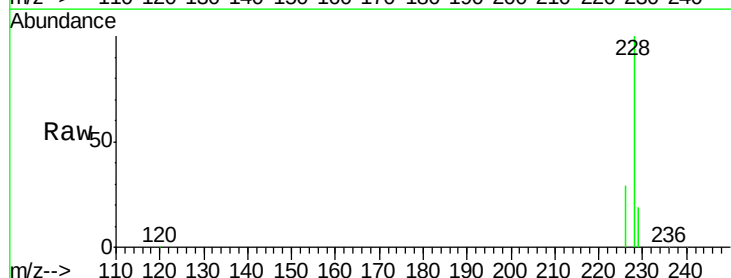
Tgt Ion:228 Resp: 385744

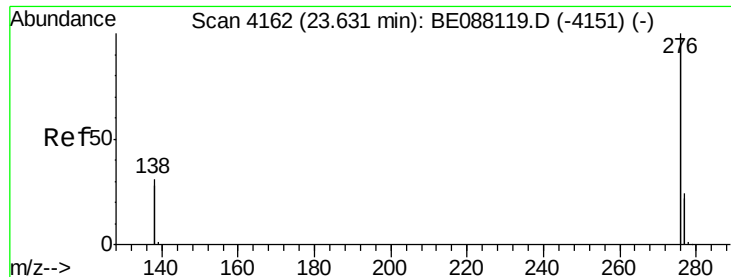
Ion Ratio Lower Upper

228 100

226 29.1 22.7 34.1

229 19.2 15.8 23.6





#21

Indeno(1,2,3-cd)pyrene

Concen: 4.91 ng

RT: 23.64 min Scan# 4163

Delta R.T. 0.01 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014MS

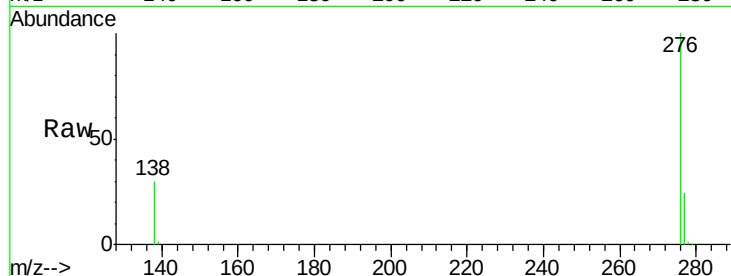
Tgt Ion: 276 Resp: 287257

Ion Ratio Lower Upper

276 100

138 29.2 18.5 27.7#

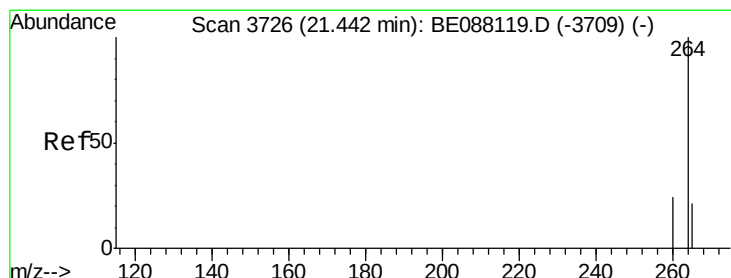
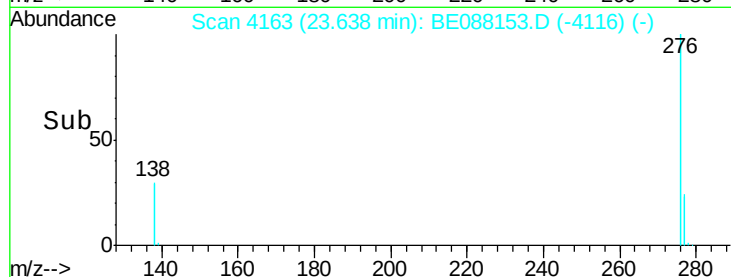
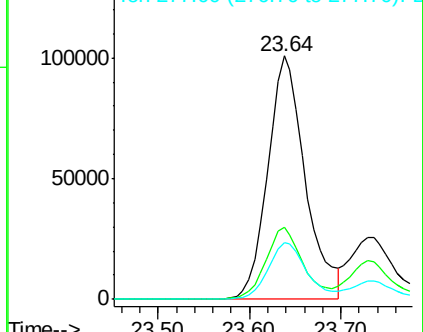
277 23.7 14.6 21.8#



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: BE088153.D

Acq: 21 Oct 2014 21:19

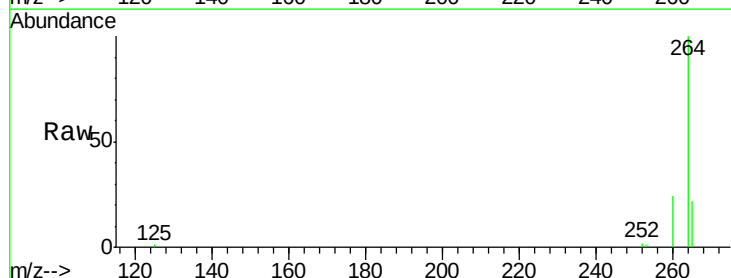
Tgt Ion: 264 Resp: 48185

Ion Ratio Lower Upper

264 100

260 23.8 19.0 28.4

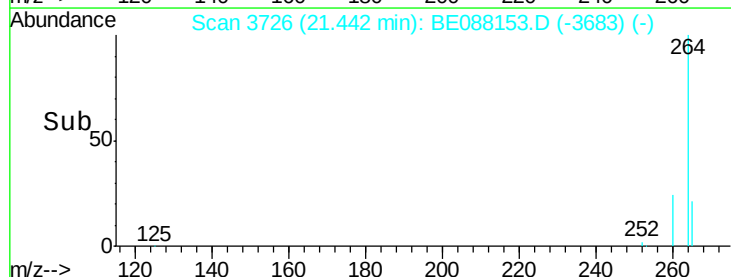
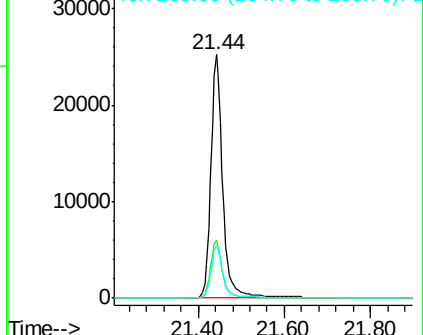
265 21.6 17.2 25.8

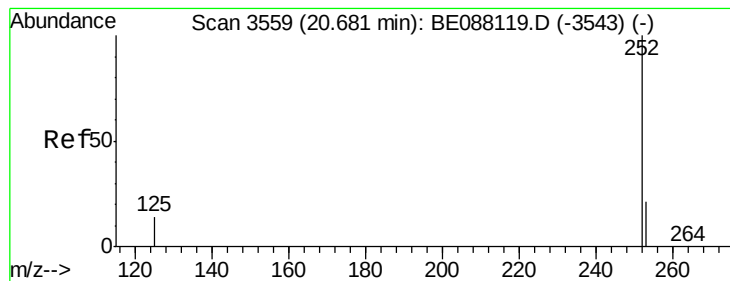


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 7.52 ng

RT: 20.69 min Scan# 3560

Delta R.T. 0.00 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014MS

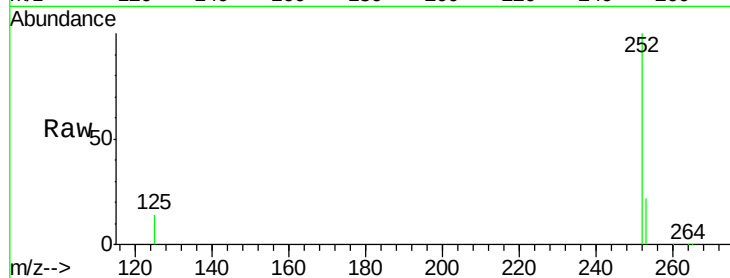
Tgt Ion:252 Resp: 86262

Ion Ratio Lower Upper

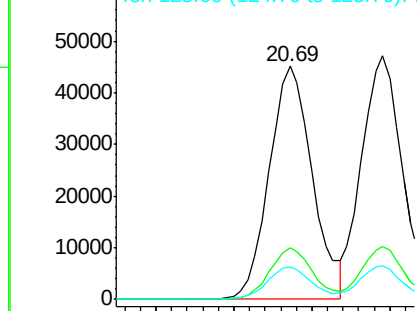
252 100

253 21.9 17.4 26.0

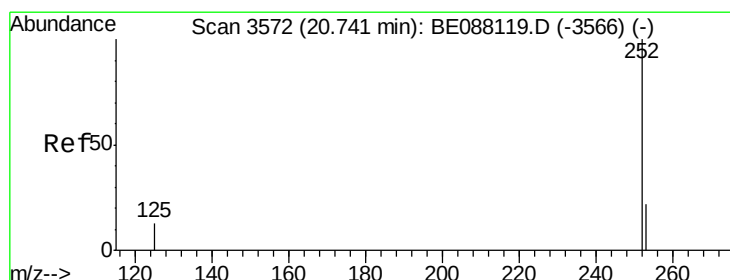
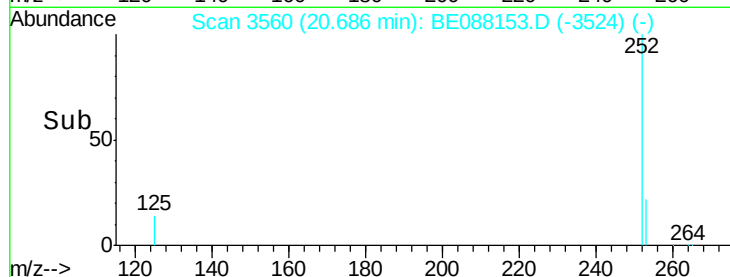
125 14.0 11.8 17.8



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



Time-->



#24

Benzo(k)fluoranthene

Concen: 7.49 ng

RT: 20.75 min Scan# 3573

Delta R.T. 0.00 min

Lab File: BE088153.D

Acq: 21 Oct 2014 21:19

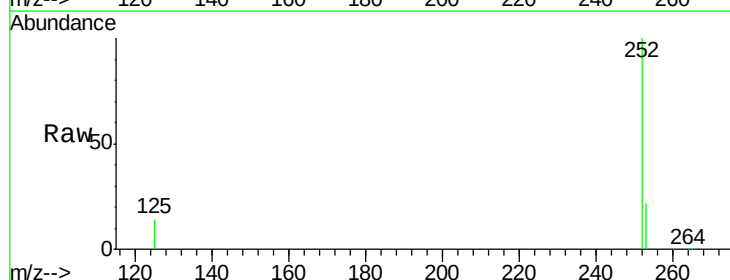
Tgt Ion:252 Resp: 91997

Ion Ratio Lower Upper

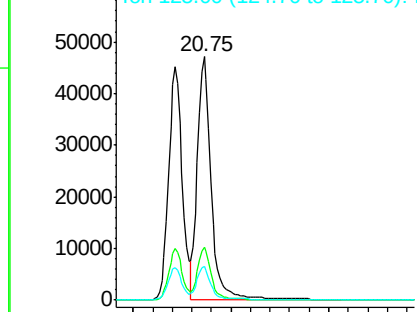
252 100

253 21.9 17.6 26.4

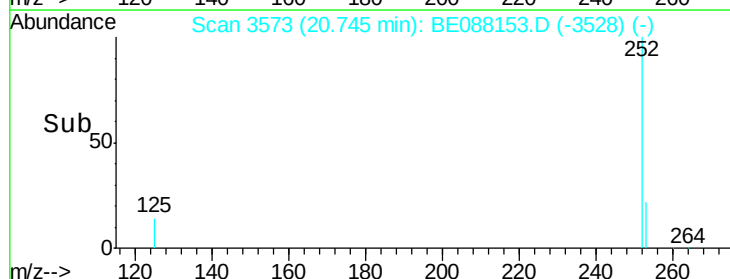
125 13.8 11.5 17.3

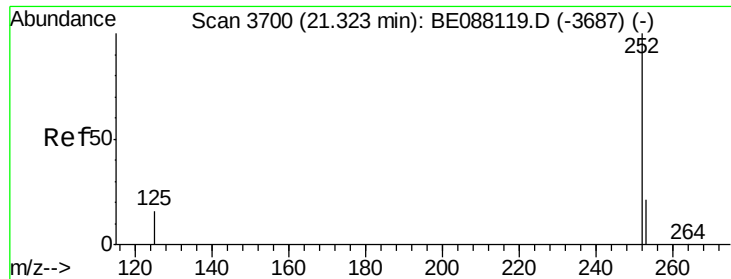


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E



Time-->

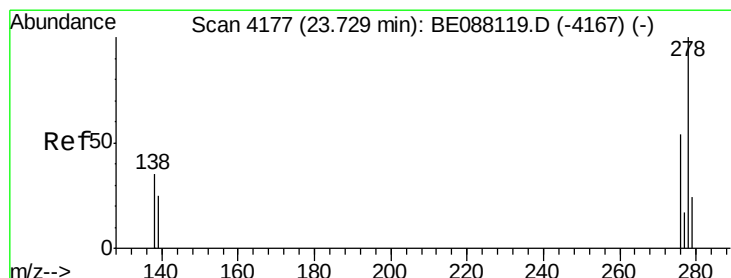
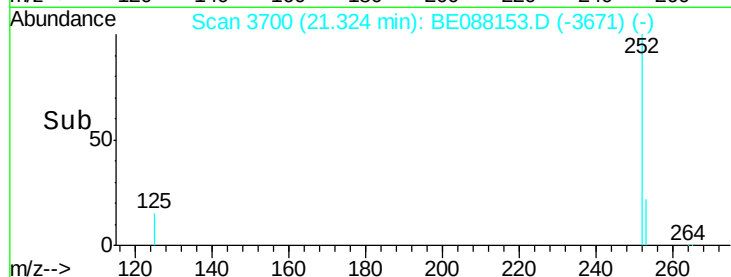
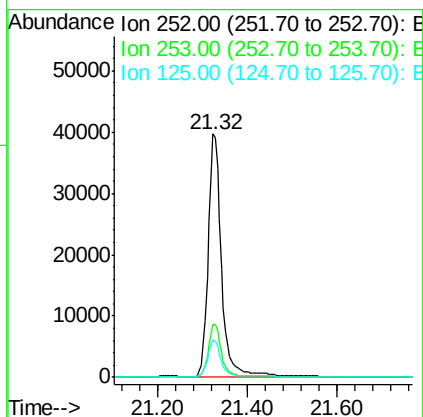
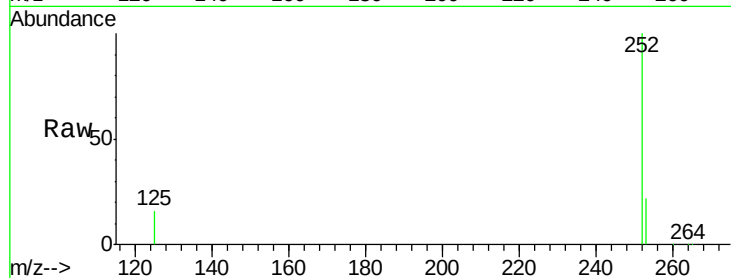




#25
Benzo(a)pyrene
Concen: 7.70 ng
RT: 21.32 min Scan# 3700
Delta R.T. 0.00 min
Lab File: BE088153.D
Acq: 21 Oct 2014 21:19

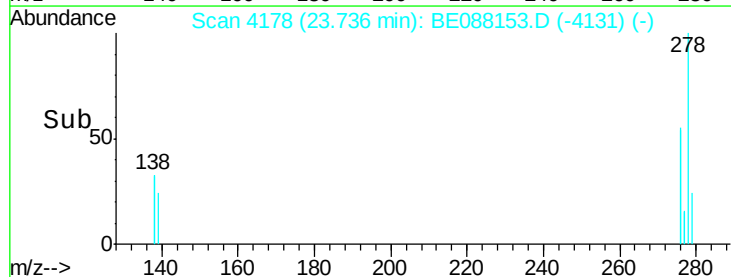
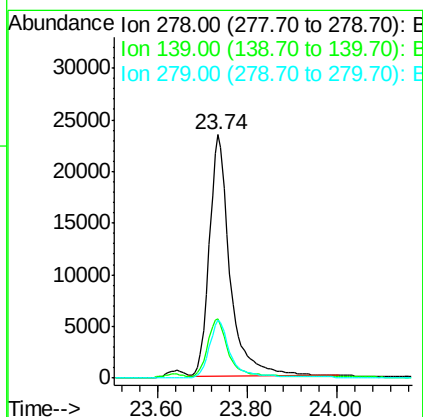
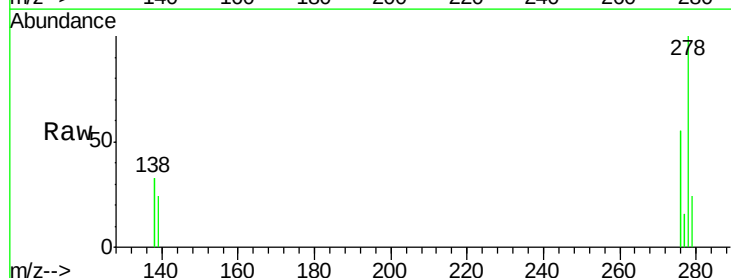
Instrument :
BNA_E
ClientSampleId :
YS19-SW10-1014MS

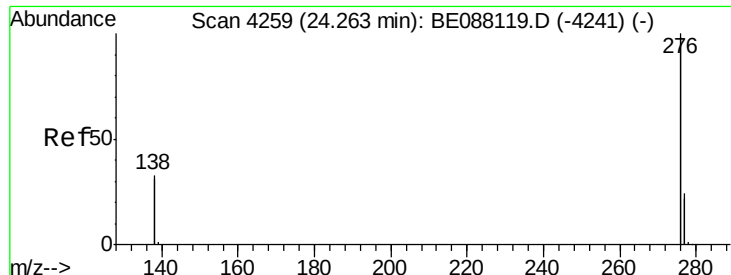
Tgt Ion: 252 Resp: 81313
Ion Ratio Lower Upper
252 100
253 21.7 17.5 26.3
125 15.6 13.0 19.6



#26
Dibenzo(a,h)anthracene
Concen: 7.29 ng
RT: 23.74 min Scan# 4178
Delta R.T. 0.01 min
Lab File: BE088153.D
Acq: 21 Oct 2014 21:19

Tgt Ion: 278 Resp: 75494
Ion Ratio Lower Upper
278 100
139 24.5 20.9 31.3
279 23.9 19.8 29.8





#27

Benzo(g,h,i)perylene

Concen: 7.33 ng

RT: 24.27 min Scan# 4260

Delta R.T. 0.01 min

Lab File: BE088153.D

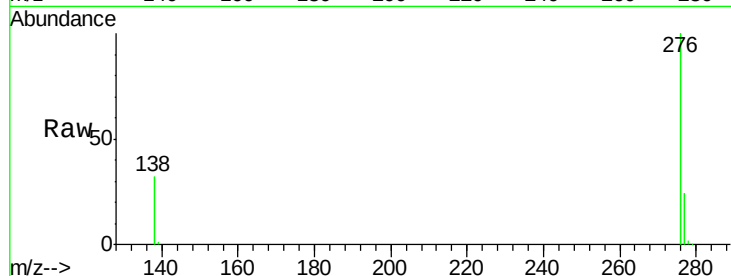
Acq: 21 Oct 2014 21:19

Instrument :

BNA_E

ClientSampleId :

YS19-SW10-1014MS



Tgt Ion: 276 Resp: 33525

Ion Ratio Lower Upper

276 100

277 23.6 19.2 28.8

138 31.8 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

