

Data Path : Z:\HPCHEM1\BNA_E\DATA\BE103114\
 Data File : BE088456.D
 Acq On : 1 Nov 2014 18:07
 Operator : TP/JJ
 Sample : F4379-17
 Misc :
 ALS Vial : 31 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB38-1014

Quant Time: Nov 02 04:18:17 2014
 Quant Method : Z:\HPCHEM1\BNA_E\METHODS\SIM-PAH-BE103114.M
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION
 QLast Update : Sat Nov 01 00:42:07 2014
 Response via : Initial Calibration

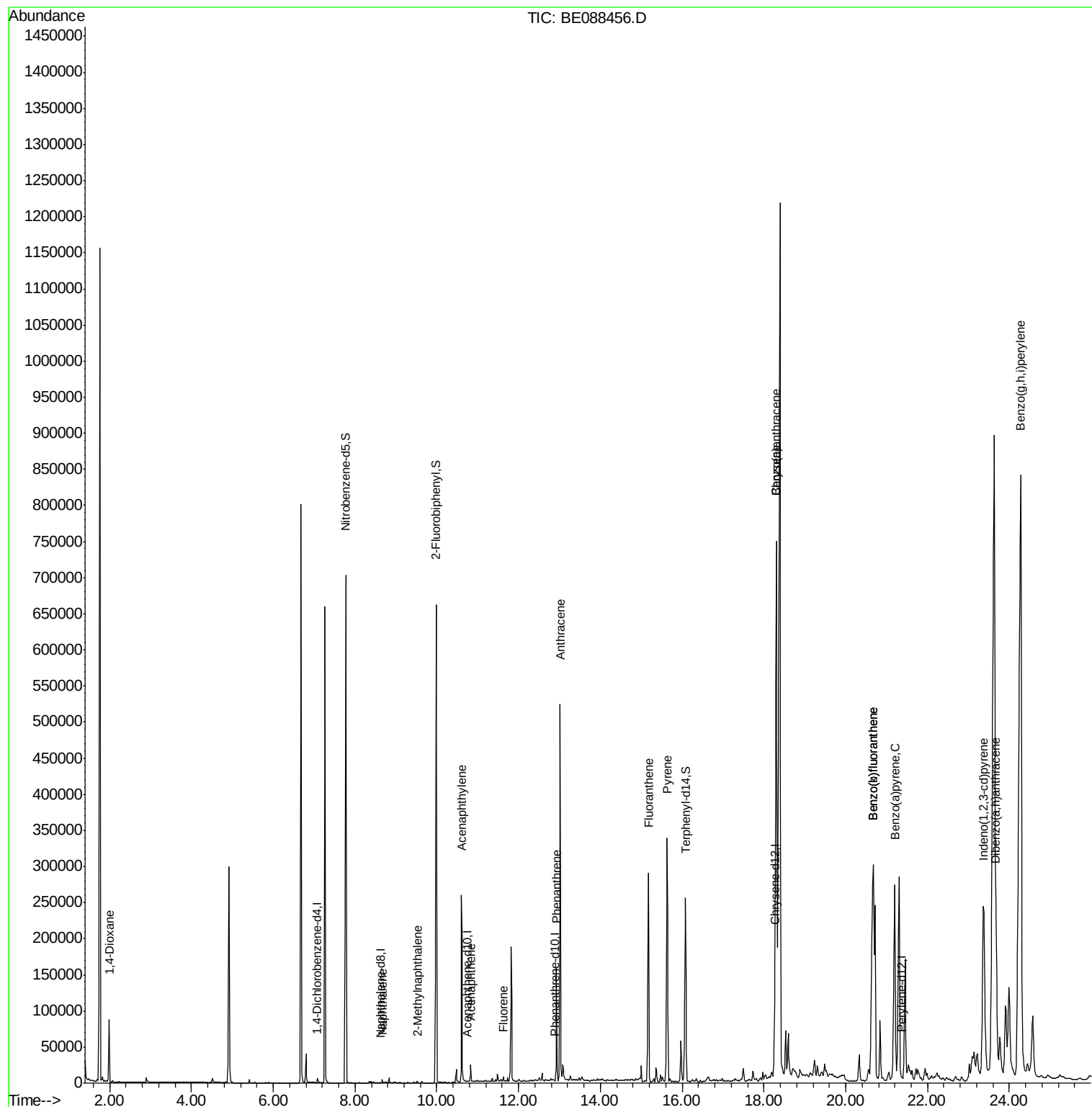
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.08	152	1716	5.00	ng	0.00
3) Naphthalene-d8	8.62	136	49	5.00	ng	-0.03
7) Acenaphthene-d10	10.74	164	23	5.00	ng	-0.05
12) Phenanthrene-d10	12.89	188	289	5.00	ng	-0.02
16) Chrysene-d12	18.26	240	602	5.00	ng	-0.05
22) Perylene-d12	21.37	264	1962	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.78	82	457659	127356.61	ng	0.00
8) 2-Fluorobiphenyl	9.99	172	557485	85994.80	ng	0.00
18) Terphenyl-d14	16.08	244	409431	3702.05	ng	0.00
Target Compounds						Qvalue
2) 1,4-Dioxane	1.99	88	2925	13.03	ng	# 1
5) Naphthalene	8.66	128	3675	362.41	ng	# 94
6) 2-Methylnaphthalene	9.52	142	1356	215.89	ng	# 94
9) Acenaphthylene	10.61	152	286856	7700.29	ng	99
10) Acenaphthene	10.83	154	3442	623.03	ng	# 87
11) Fluorene	11.63	166	3668	626.21	ng	89
13) Phenanthrene	12.93	178	208358	793.49	ng	98
14) Anthracene	13.02	178	545142	2570.69	ng	100
15) Fluoranthene	15.18	202	313454	7353.91	ng	99
17) Pyrene	15.63	202	393018	2001.70	ng	98
19) Benzo(a)anthracene	18.30	228	1107830	1954.81	ng	96
20) Chrysene	18.30	228	1107830	1991.53	ng	95
21) Indeno(1,2,3-cd)pyrene	23.36	276	472102	910.64	ng	# 85
23) Benzo(b)fluoranthene	20.67	252	897736	2086.62	ng	99
24) Benzo(k)fluoranthene	20.67	252	899071	1897.55	ng	99
25) Benzo(a)pyrene	21.20	252	490926	1188.47	ng	98
26) Dibenzo(a,h)anthracene	23.68	278	153498	400.13	ng	95
27) Benzo(g,h,i)perylene	24.28	276	2429044	1380.72	ng	95

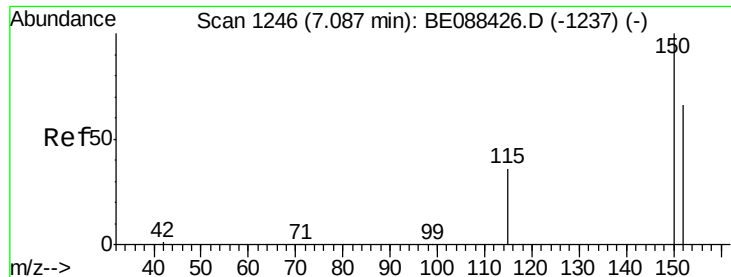
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.08 min Scan# 1245

Delta R.T. -0.01 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

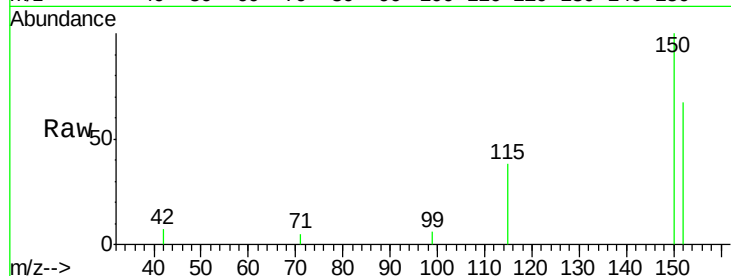
Tgt Ion:152 Resp: 1716

Ion Ratio Lower Upper

152 100

150 150.0 121.8 182.8

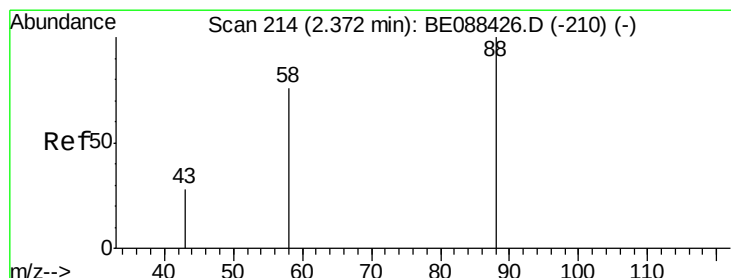
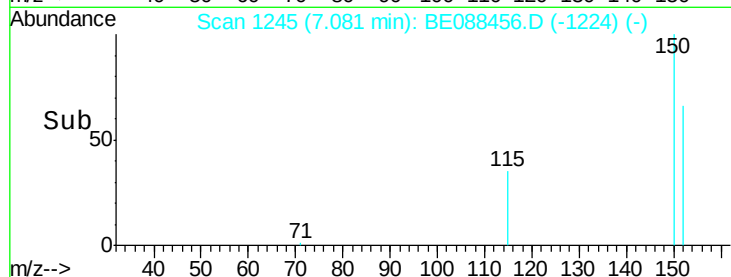
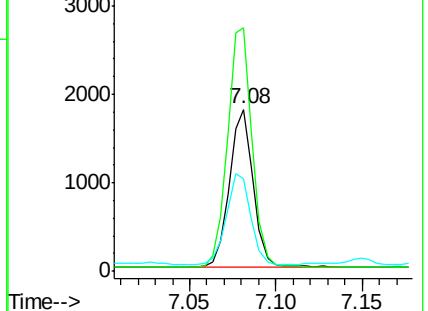
115 57.1 43.9 65.9



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: 13.03 ng

RT: 1.99 min Scan# 130

Delta R.T. -0.38 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

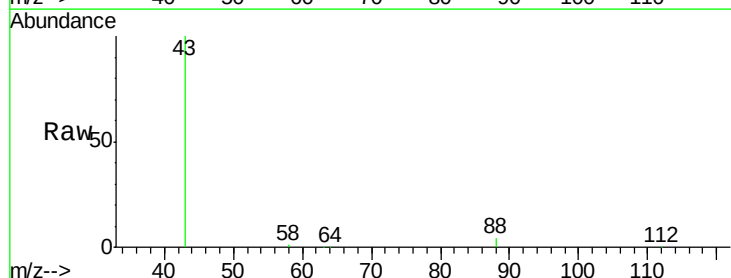
Tgt Ion: 88 Resp: 2925

Ion Ratio Lower Upper

88 100

58 24.2 59.1 88.7#

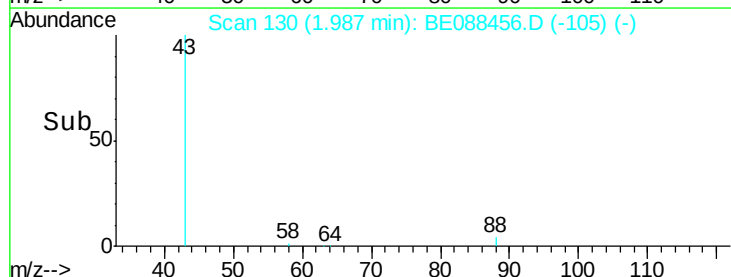
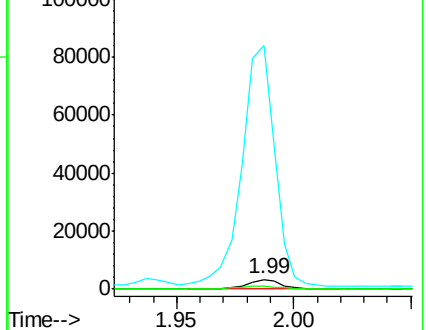
43 2801.4 21.9 32.9#

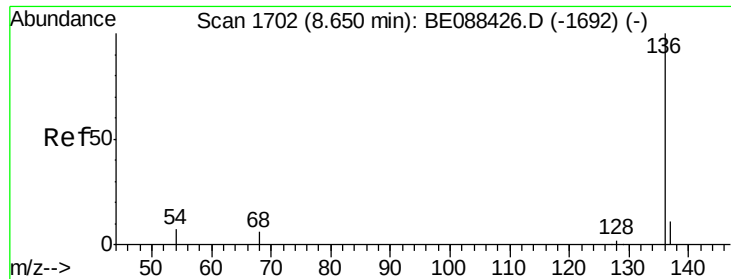


Abundance Ion 88.00 (87.70 to 88.70): BE0

Ion 58.00 (57.70 to 58.70): BE0

Ion 43.00 (42.70 to 43.70): BE0





#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.62 min Scan# 1697

Delta R.T. -0.03 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

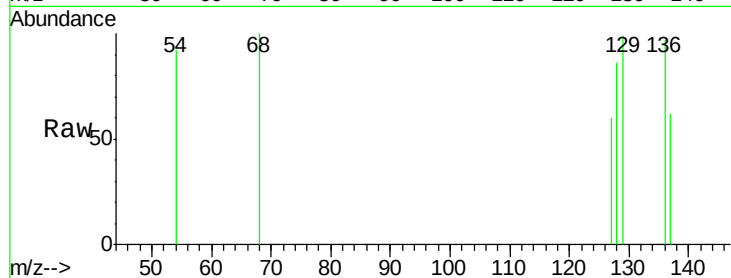
Tgt Ion:136 Resp: 49

Ion Ratio Lower Upper

136 100

137 64.0 8.8 13.2#

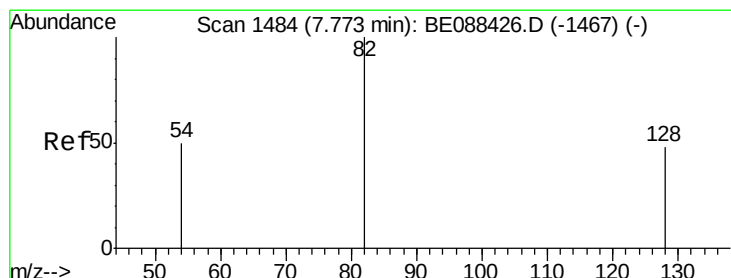
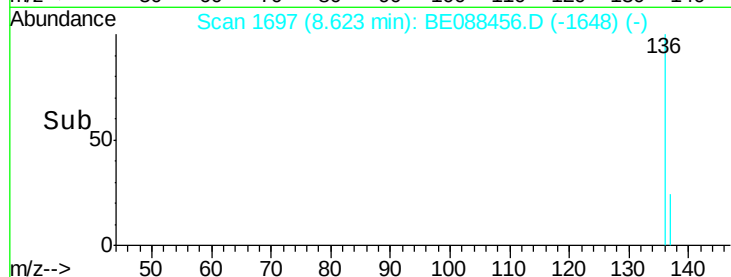
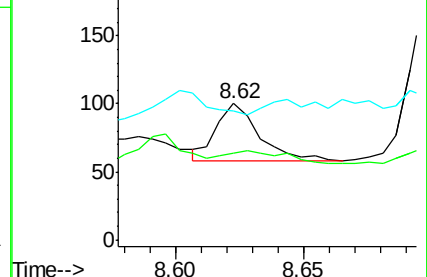
54 95.0 5.3 7.9#



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: 127356.61 ng

RT: 7.78 min Scan# 1486

Delta R.T. 0.00 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

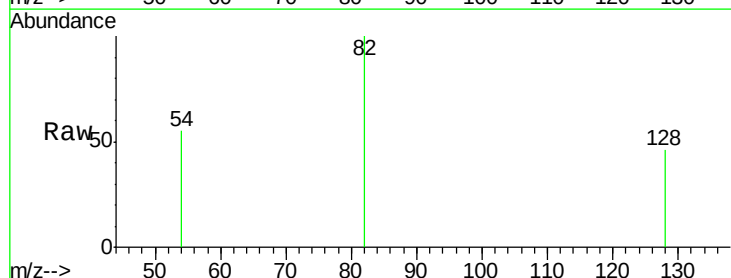
Tgt Ion: 82 Resp: 457659

Ion Ratio Lower Upper

82 100

128 46.5 38.4 57.6

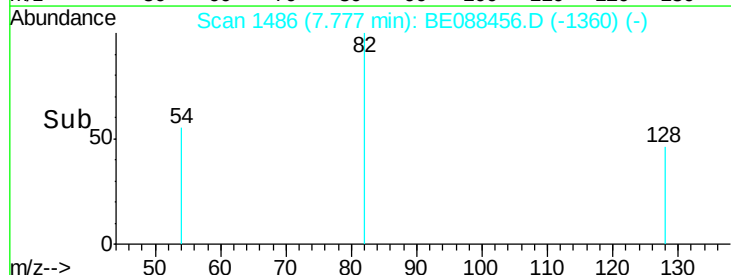
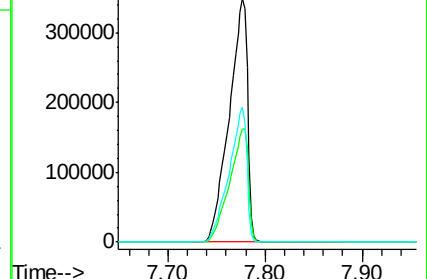
54 55.3 40.2 60.2

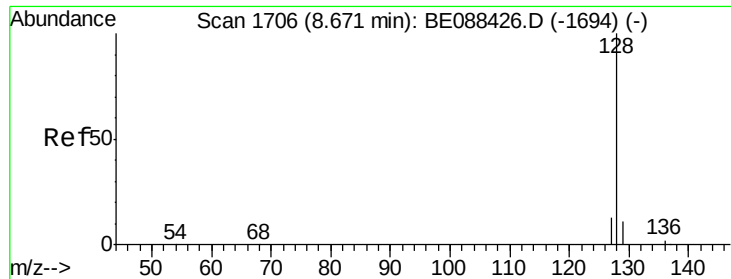


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 362.41 ng

RT: 8.66 min Scan# 1705

Delta R.T. -0.01 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

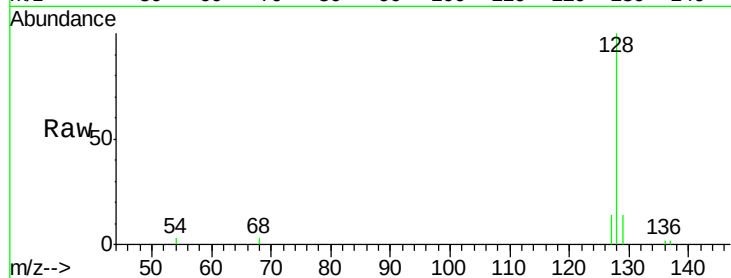
Tgt Ion:128 Resp: 3675

Ion Ratio Lower Upper

128 100

129 14.1 8.6 12.8#

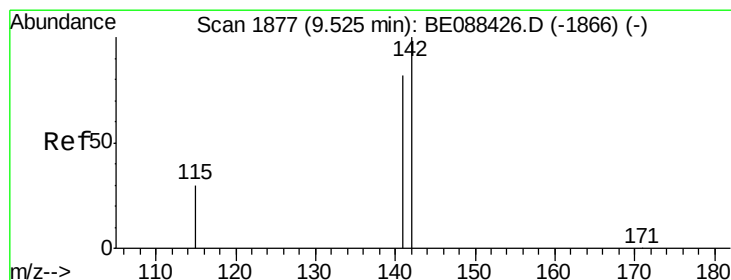
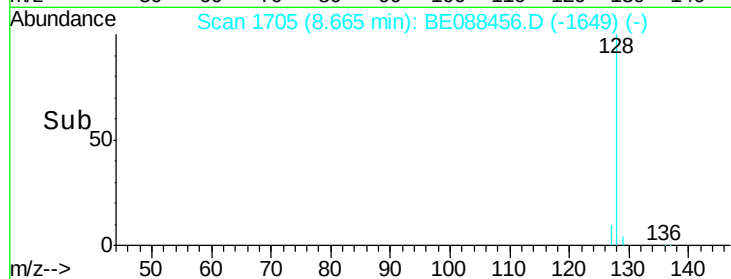
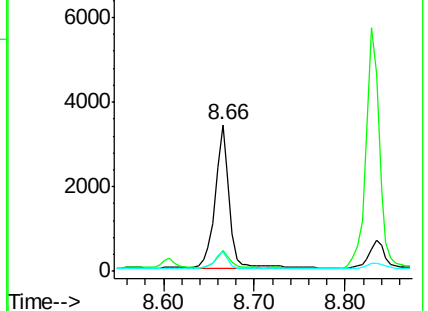
127 13.6 10.1 15.1



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: 215.89 ng

RT: 9.52 min Scan# 1876

Delta R.T. -0.00 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

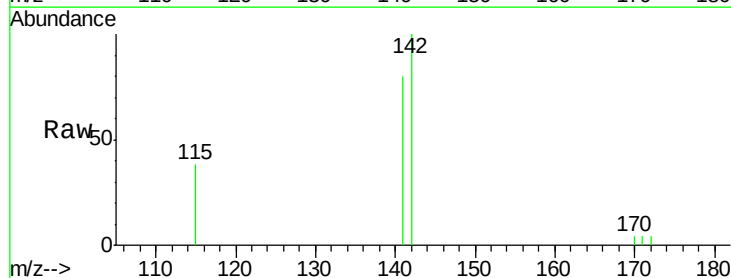
Tgt Ion:142 Resp: 1356

Ion Ratio Lower Upper

142 100

141 79.7 65.8 98.8

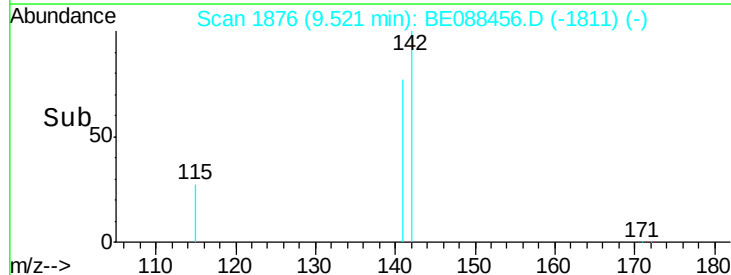
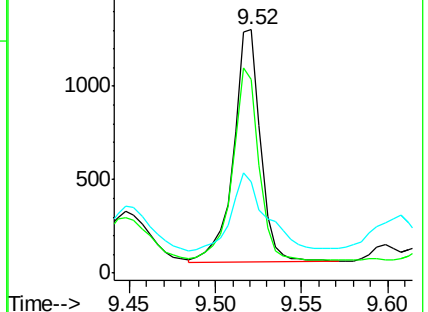
115 37.6 24.2 36.4#

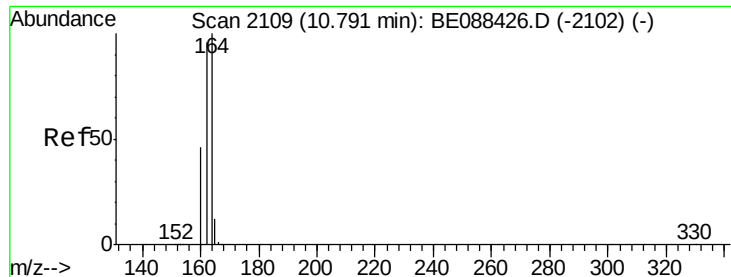


Abundance Ion 142.00 (141.70 to 142.70): E

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: 10.74 min Scan# 2104

Delta R.T. -0.05 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

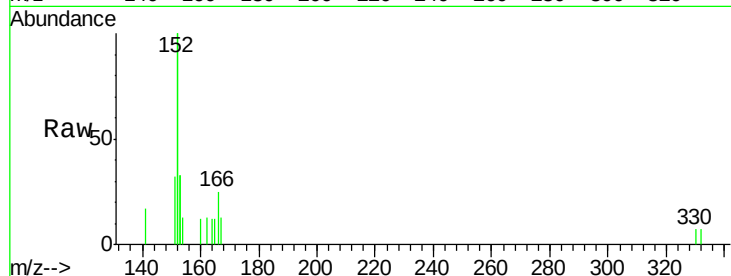
Tgt Ion:164 Resp: 23

Ion Ratio Lower Upper

164 100

162 109.1 77.0 115.4

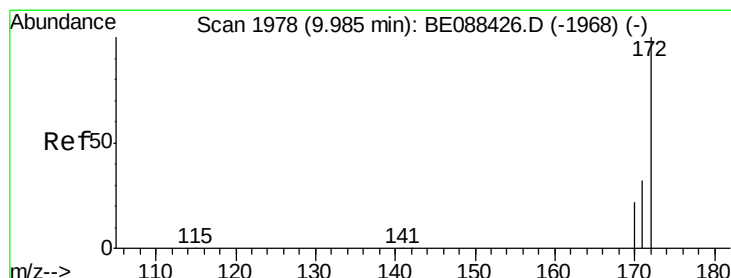
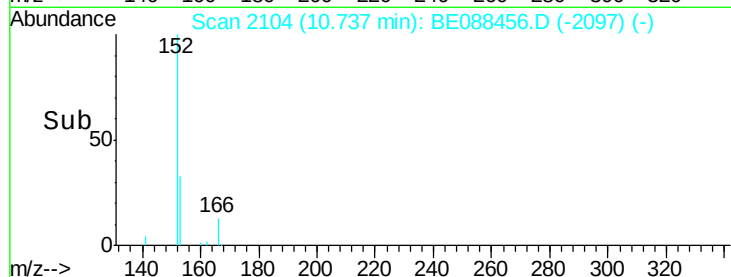
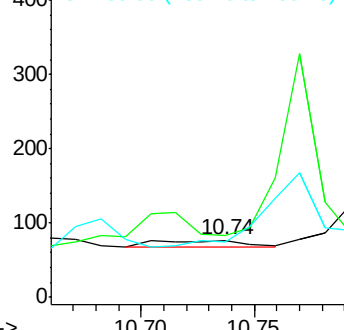
160 96.1 36.8 55.2#



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: 85994.80 ng

RT: 9.99 min Scan# 1978

Delta R.T. 0.00 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

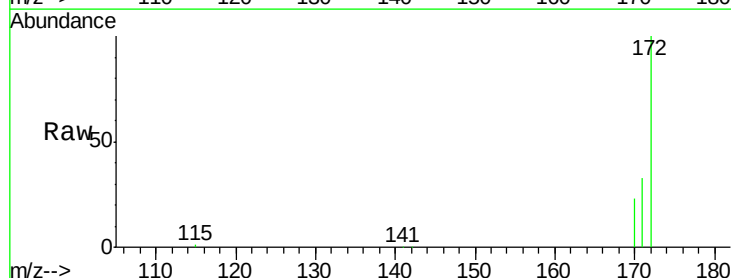
Tgt Ion:172 Resp: 557485

Ion Ratio Lower Upper

172 100

171 33.0 26.0 39.0

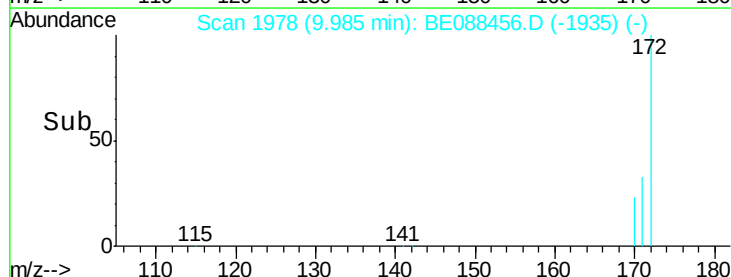
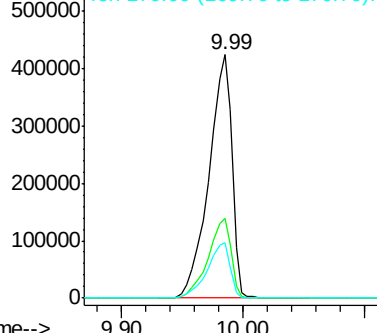
170 22.6 17.6 26.4

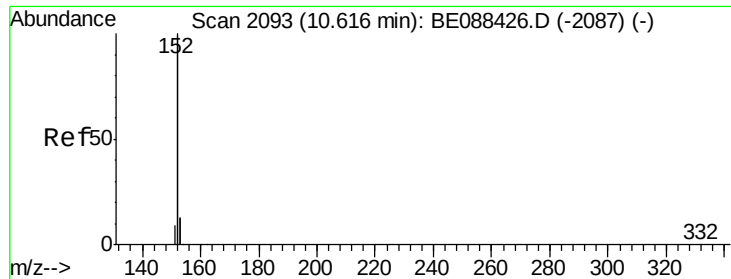


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 7700.29 ng

RT: 10.61 min Scan# 2092

Delta R.T. -0.01 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

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ClientSampleId :

YS19-SB38-1014

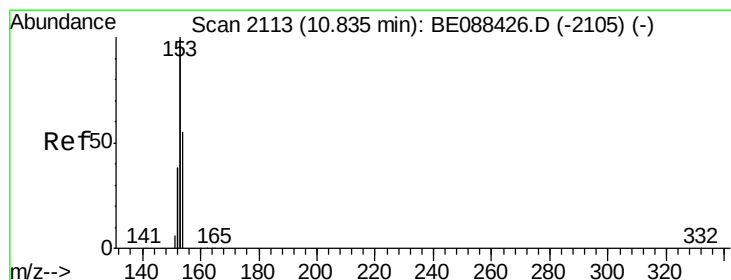
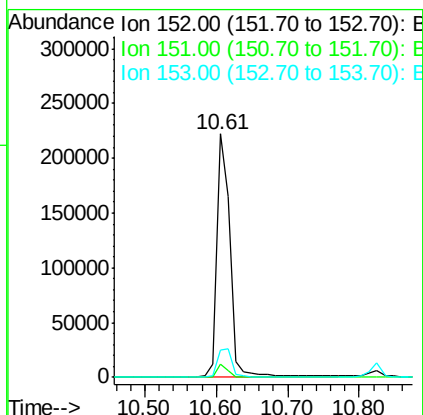
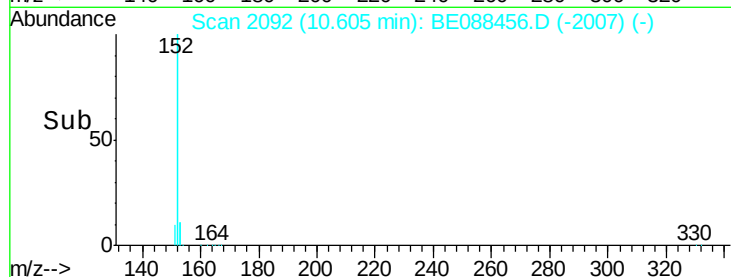
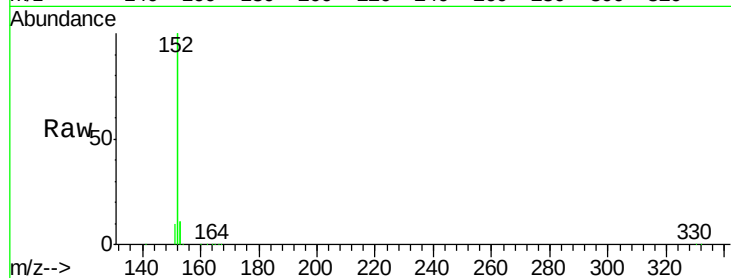
Tgt Ion:152 Resp: 286856

Ion Ratio Lower Upper

152 100

151 4.6 4.4 6.6

153 13.2 10.5 15.7



#10

Acenaphthene

Concen: 623.03 ng

RT: 10.83 min Scan# 2112

Delta R.T. -0.01 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

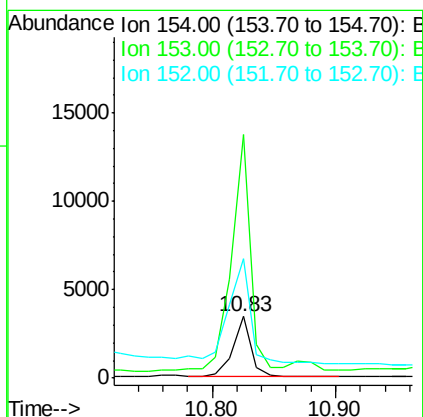
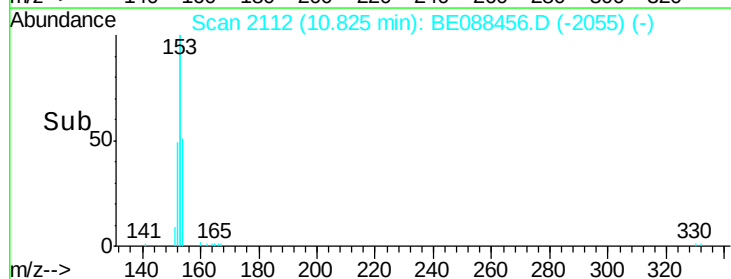
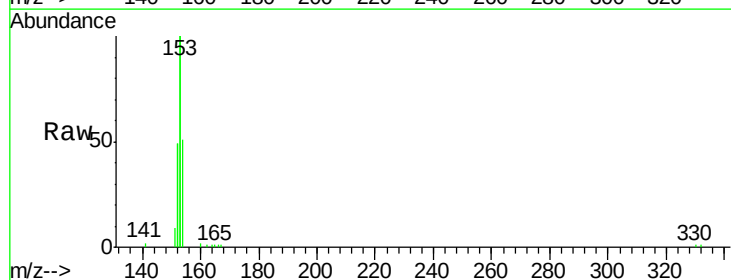
Tgt Ion:154 Resp: 3442

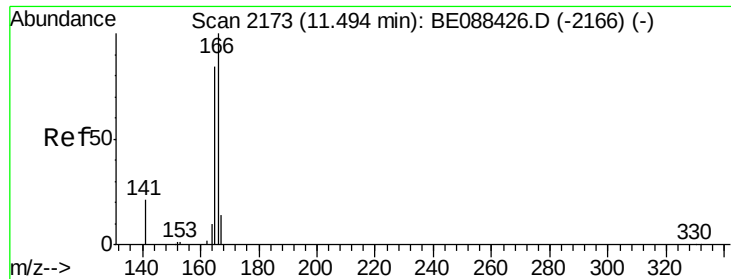
Ion Ratio Lower Upper

154 100

153 408.5 324.3 486.5

152 250.1 154.9 232.3#





#11

Fluorene

Concen: 626.21 ng

RT: 11.63 min Scan# 2185

Delta R.T. 0.13 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

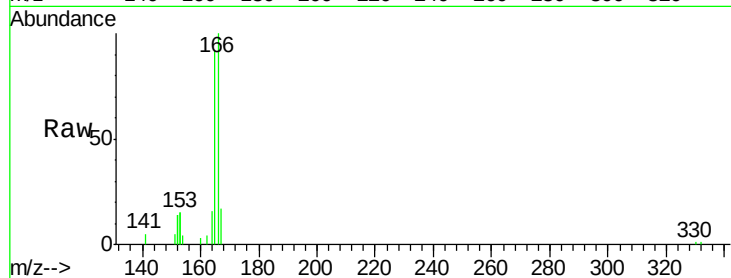
Tgt Ion:166 Resp: 3668

Ion Ratio Lower Upper

166 100

165 99.6 71.3 106.9

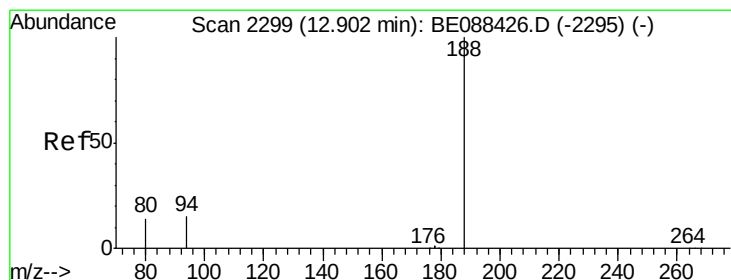
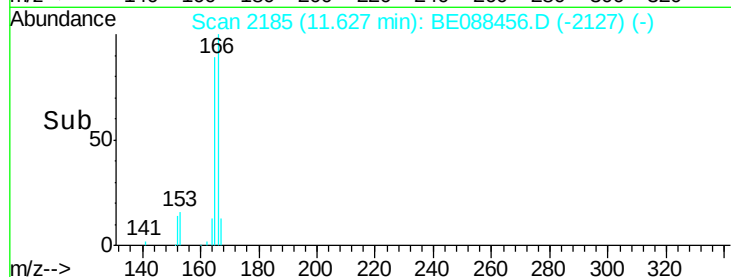
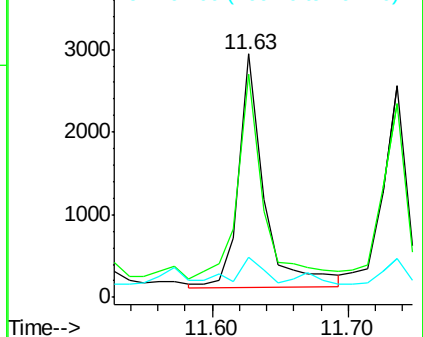
167 10.9 10.7 16.1



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: 12.89 min Scan# 2297

Delta R.T. -0.02 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

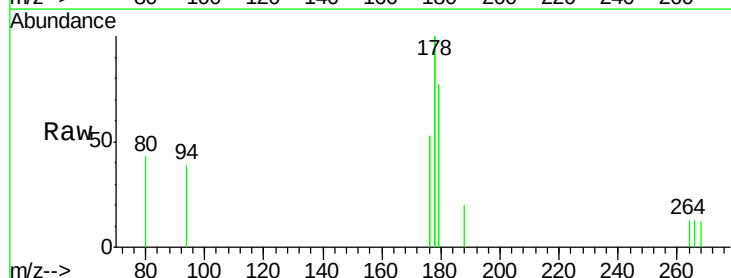
Tgt Ion:188 Resp: 289

Ion Ratio Lower Upper

188 100

94 198.8 11.8 17.8#

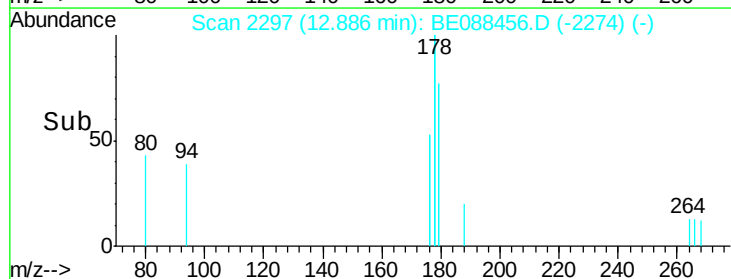
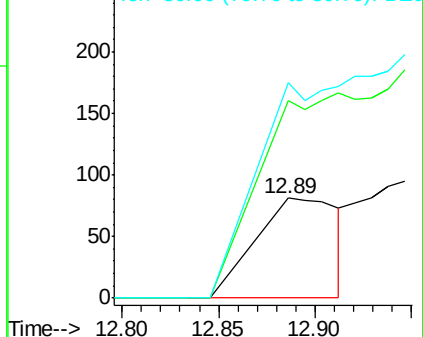
80 216.0 10.9 16.3#

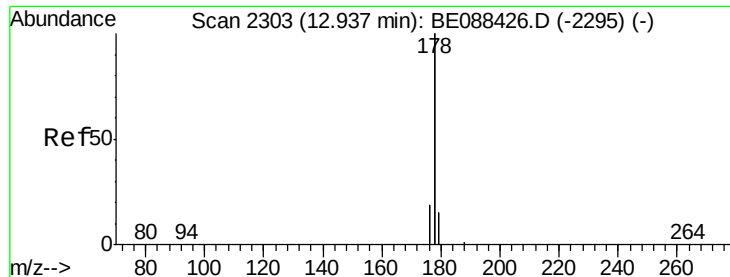


Abundance Ion 188.00 (187.70 to 188.70): E

Ion 94.00 (93.70 to 94.70): BE0

Ion 80.00 (79.70 to 80.70): BE0

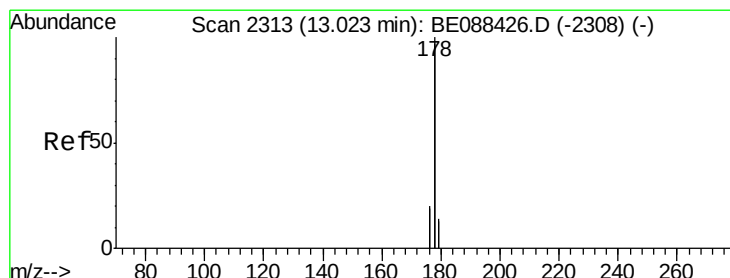
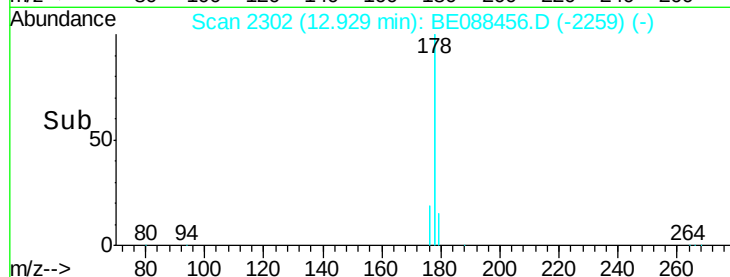
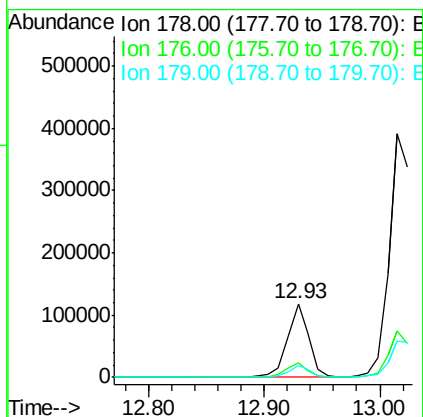
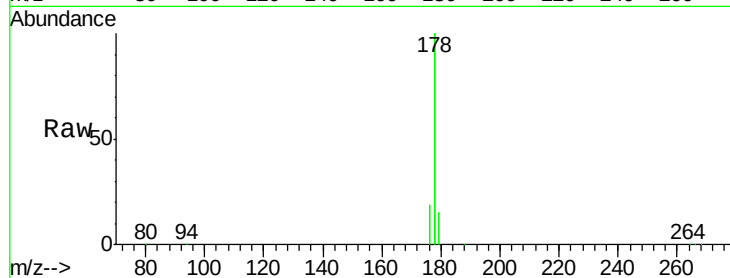




#13
Phenanthrene
Concen: 793.49 ng
RT: 12.93 min Scan# 2302
Delta R.T. -0.01 min
Lab File: BE088456.D
Acq: 1 Nov 2014 18:07

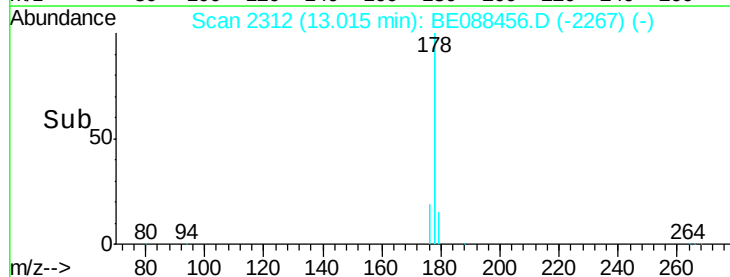
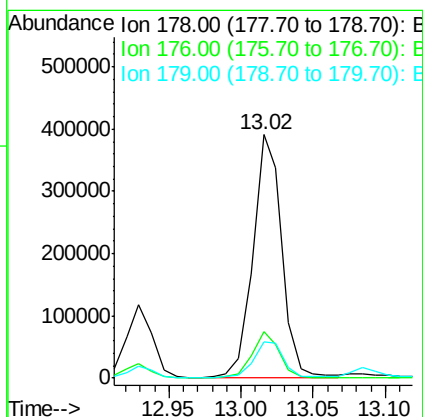
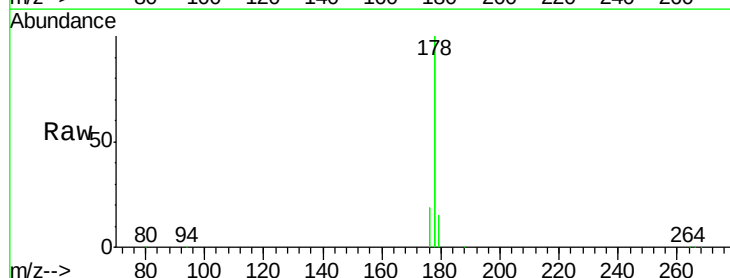
Instrument :
BNA_E
ClientSampleId :
YS19-SB38-1014

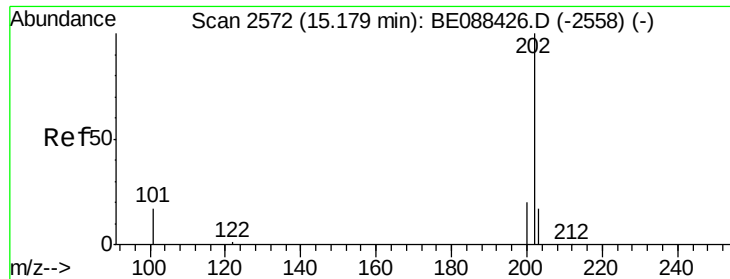
Tgt Ion:178 Resp: 208358
Ion Ratio Lower Upper
178 100
176 19.5 15.4 23.2
179 17.2 12.8 19.2



#14
Anthracene
Concen: 2570.69 ng
RT: 13.02 min Scan# 2312
Delta R.T. -0.01 min
Lab File: BE088456.D
Acq: 1 Nov 2014 18:07

Tgt Ion:178 Resp: 545142
Ion Ratio Lower Upper
178 100
176 18.6 15.0 22.4
179 15.7 12.5 18.7

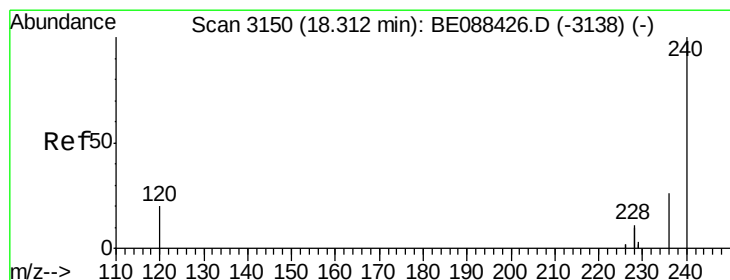
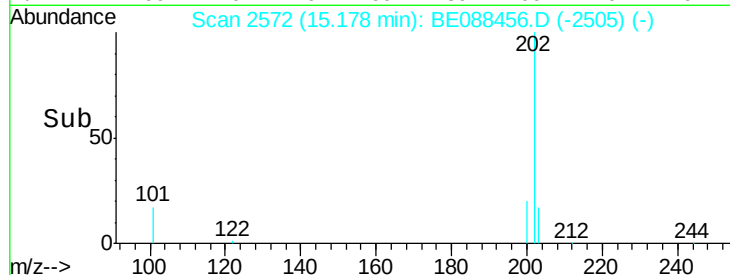
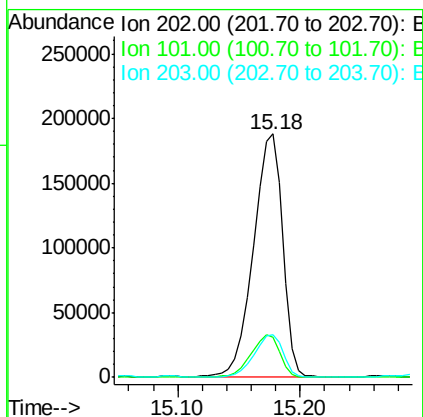
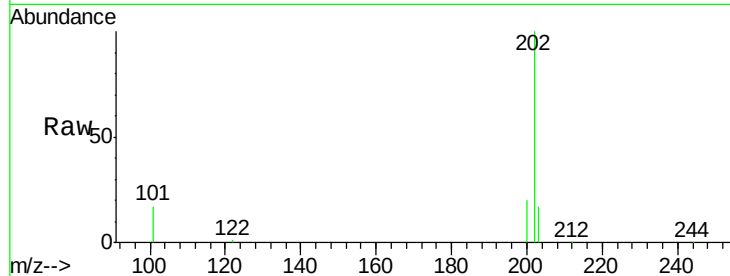




#15
 Fluoranthene
 Concen: 7353.91 ng
 RT: 15.18 min Scan# 2572
 Delta R.T. -0.00 min
 Lab File: BE088456.D
 Acq: 1 Nov 2014 18:07

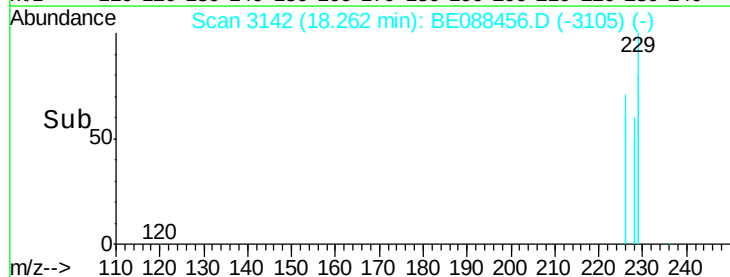
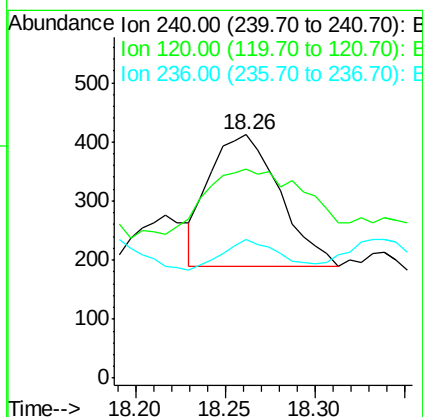
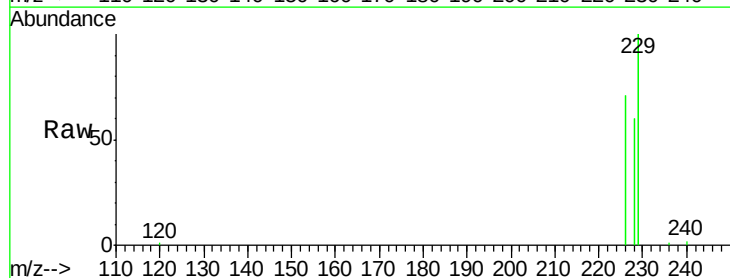
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB38-1014

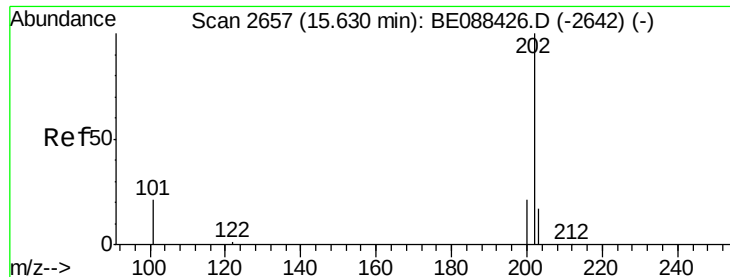
Tgt Ion: 202 Resp: 313454
 Ion Ratio Lower Upper
 202 100
 101 17.4 14.3 21.5
 203 17.4 13.6 20.4



#16
 Chrysene-d12
 Concen: 5.00 ng
 RT: 18.26 min Scan# 3142
 Delta R.T. -0.05 min
 Lab File: BE088456.D
 Acq: 1 Nov 2014 18:07

Tgt Ion: 240 Resp: 602
 Ion Ratio Lower Upper
 240 100
 120 86.2 16.4 24.6#
 236 57.3 20.5 30.7#

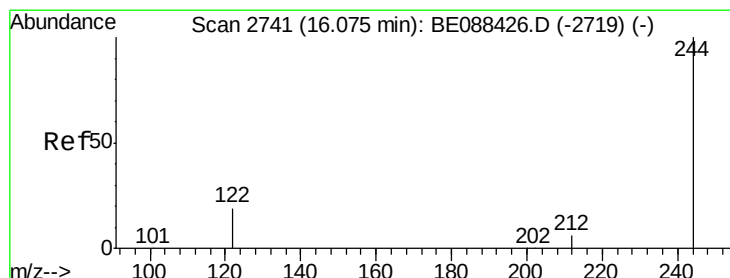
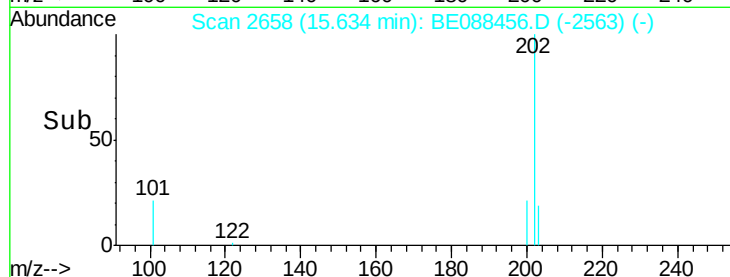
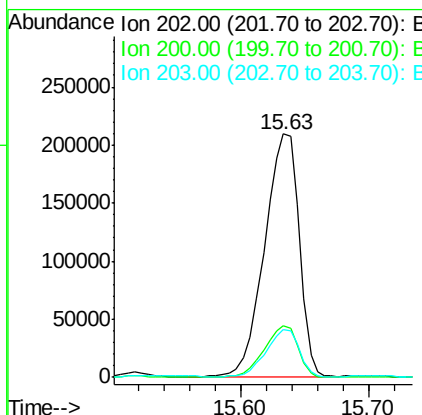
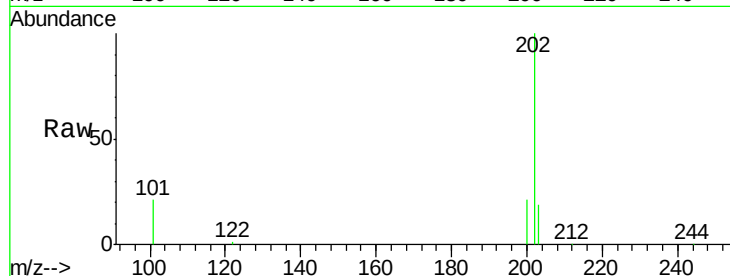




#17
 Pyrene
 Concen: 2001.70 ng
 RT: 15.63 min Scan# 2658
 Delta R.T. 0.00 min
 Lab File: BE088456.D
 Acq: 1 Nov 2014 18:07

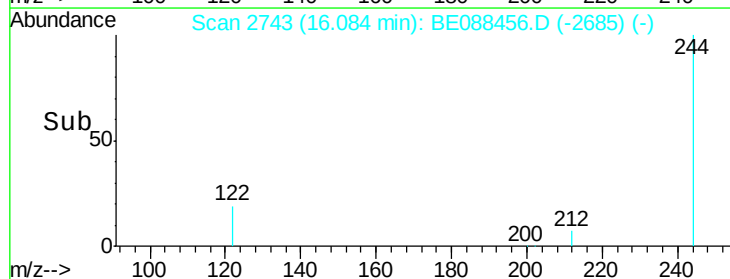
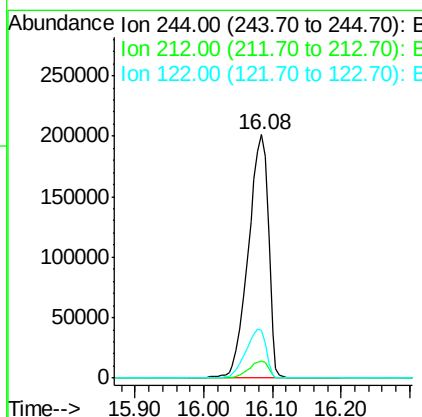
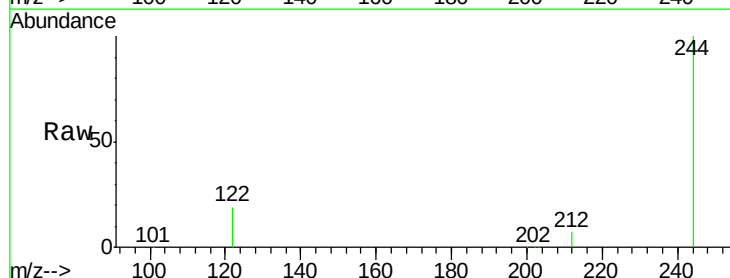
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB38-1014

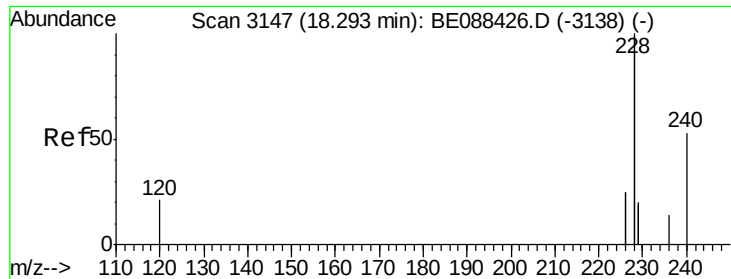
Tgt Ion: 202 Resp: 393018
 Ion Ratio Lower Upper
 202 100
 200 20.7 16.1 24.1
 203 18.7 13.8 20.8



#18
 Terphenyl-d14
 Concen: 3702.05 ng
 RT: 16.08 min Scan# 2743
 Delta R.T. 0.01 min
 Lab File: BE088456.D
 Acq: 1 Nov 2014 18:07

Tgt Ion: 244 Resp: 409431
 Ion Ratio Lower Upper
 244 100
 212 7.1 5.5 8.3
 122 19.4 15.6 23.4





#19

Benzo(a)anthracene

Concen: 1954.81 ng

RT: 18.30 min Scan# 3148

Delta R.T. 0.01 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

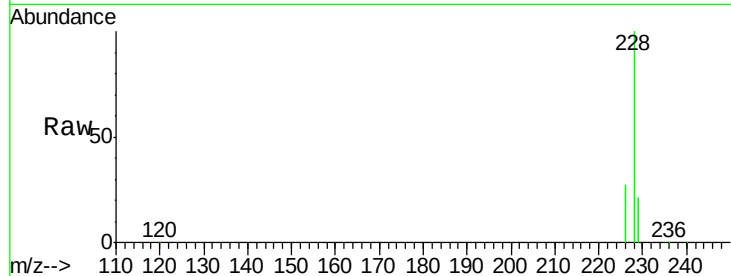
Tgt Ion:228 Resp: 1107830

Ion Ratio Lower Upper

228 100

226 26.9 19.8 29.6

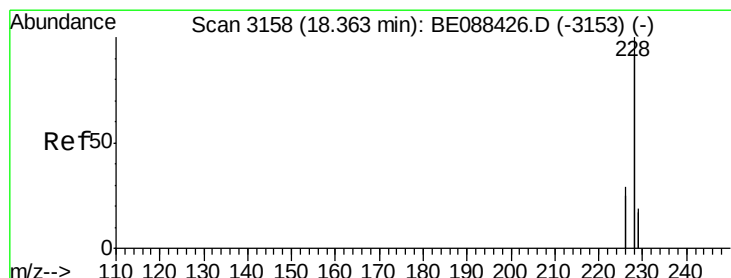
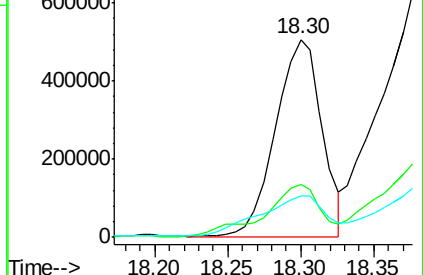
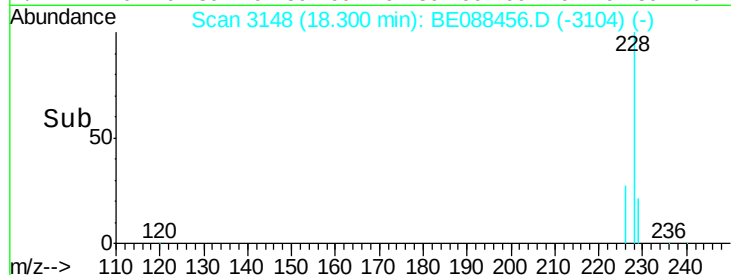
229 21.2 16.0 24.0



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: 1991.53 ng

RT: 18.30 min Scan# 3148

Delta R.T. -0.06 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

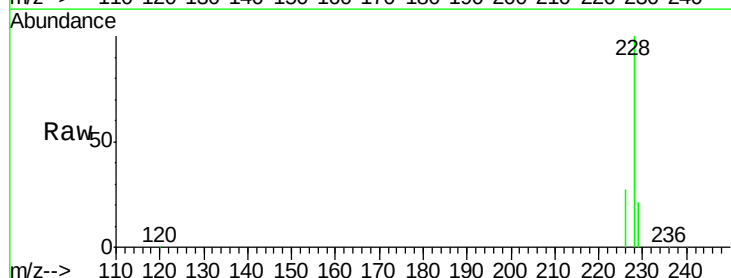
Tgt Ion:228 Resp: 1107830

Ion Ratio Lower Upper

228 100

226 26.9 23.6 35.4

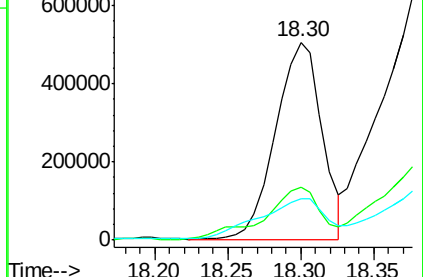
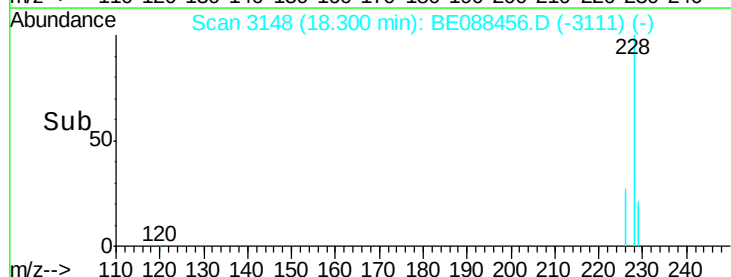
229 21.2 15.4 23.2

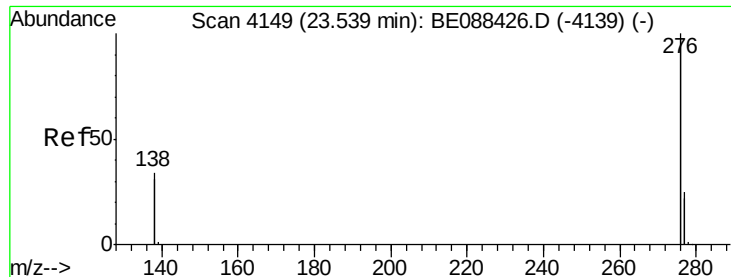


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E

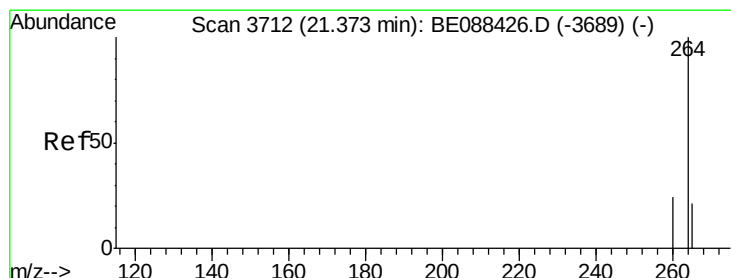
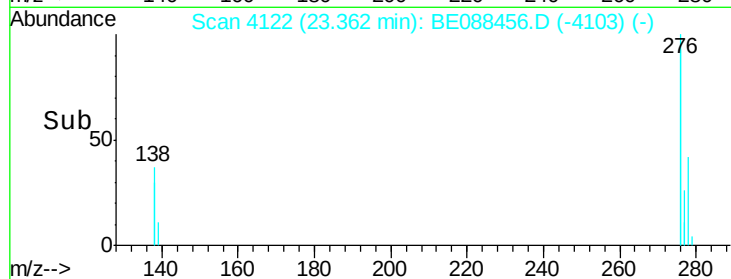
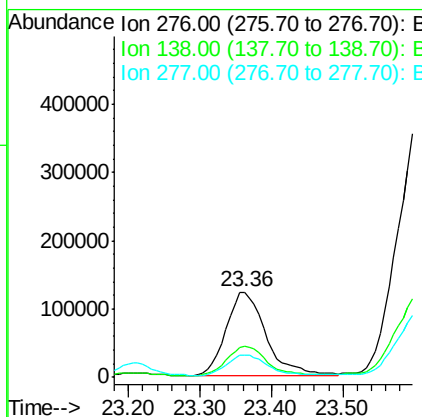
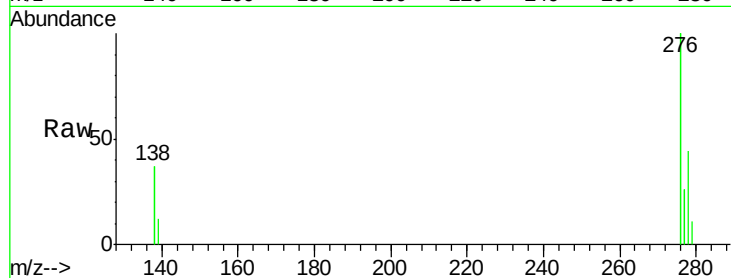




#21
 Indeno(1,2,3-cd)pyrene
 Concen: 910.64 ng
 RT: 23.36 min Scan# 4122
 Delta R.T. -0.18 min
 Lab File: BE088456.D
 Acq: 1 Nov 2014 18:07

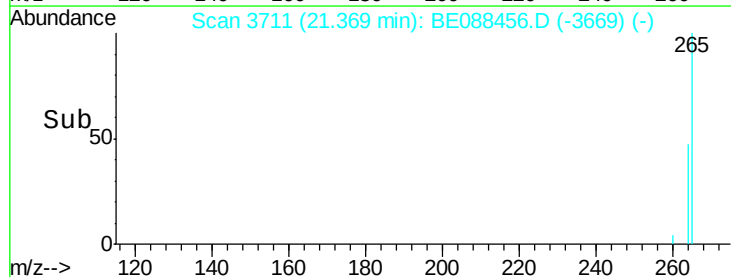
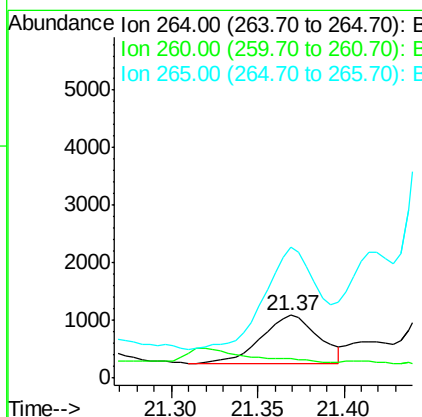
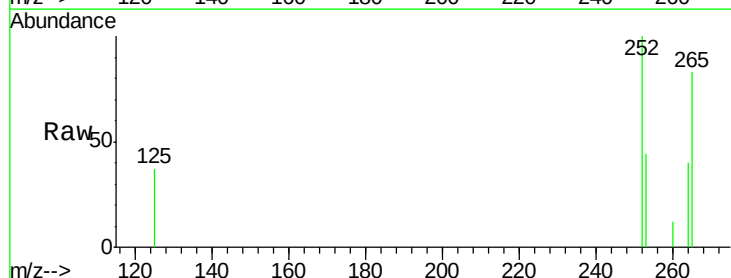
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB38-1014

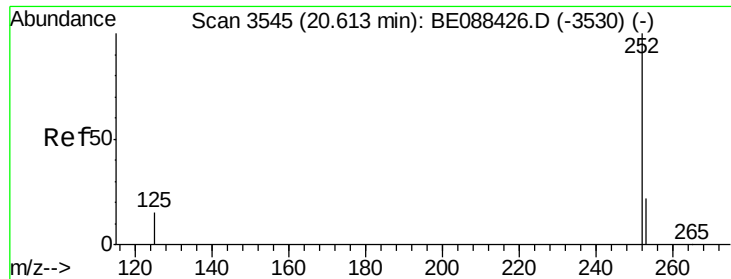
Tgt Ion: 276 Resp: 472102
 Ion Ratio Lower Upper
 276 100
 138 33.5 20.2 30.2#
 277 24.0 14.8 22.2#



#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.37 min Scan# 3711
 Delta R.T. -0.00 min
 Lab File: BE088456.D
 Acq: 1 Nov 2014 18:07

Tgt Ion: 264 Resp: 1962
 Ion Ratio Lower Upper
 264 100
 260 30.6 18.9 28.3#
 265 206.8 17.2 25.8#





#23

Benzo(b)fluoranthene

Concen: 2086.62 ng

RT: 20.67 min Scan# 3558

Delta R.T. 0.06 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014

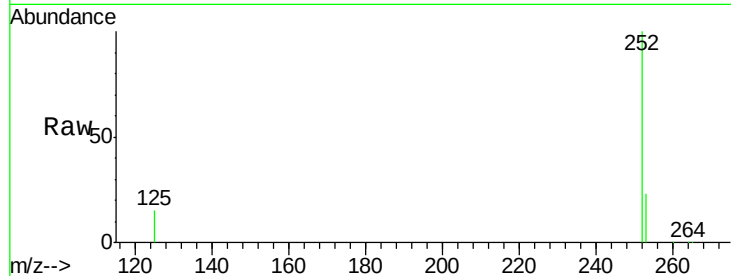
Tgt Ion:252 Resp: 897736

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.8

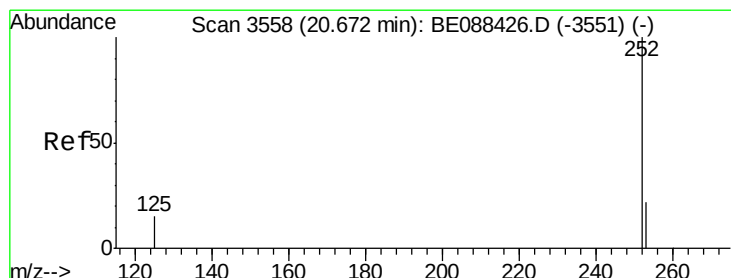
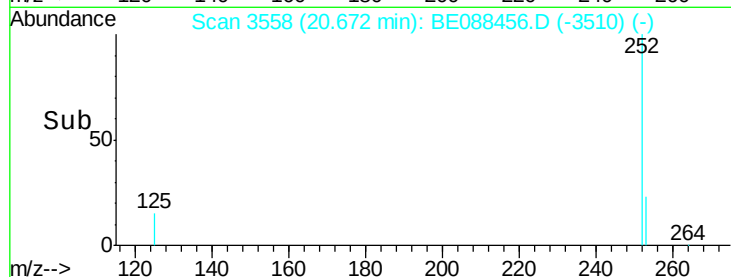
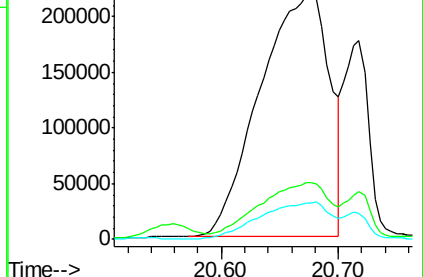
125 15.0 12.3 18.5



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: 1897.55 ng

RT: 20.67 min Scan# 3558

Delta R.T. 0.00 min

Lab File: BE088456.D

Acq: 1 Nov 2014 18:07

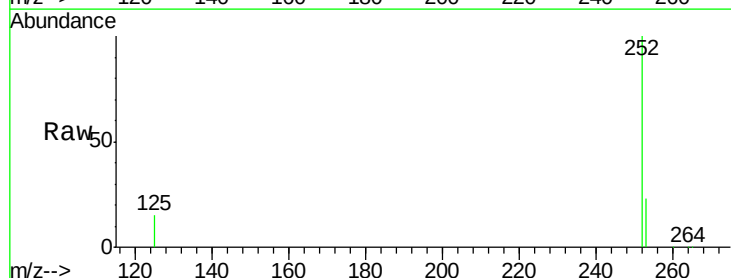
Tgt Ion:252 Resp: 899071

Ion Ratio Lower Upper

252 100

253 23.1 17.8 26.8

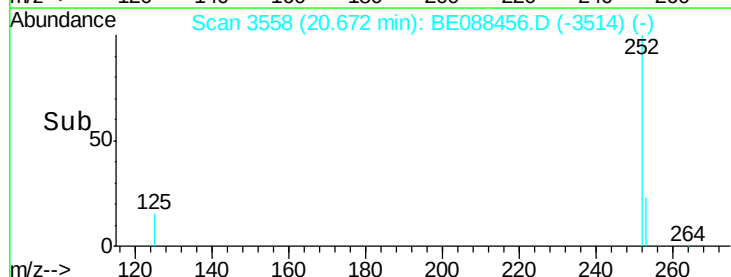
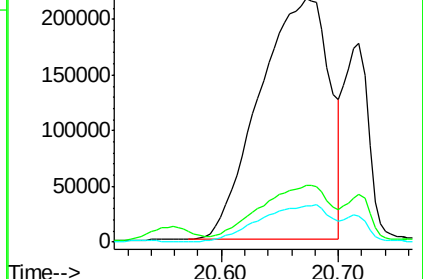
125 15.0 12.2 18.4

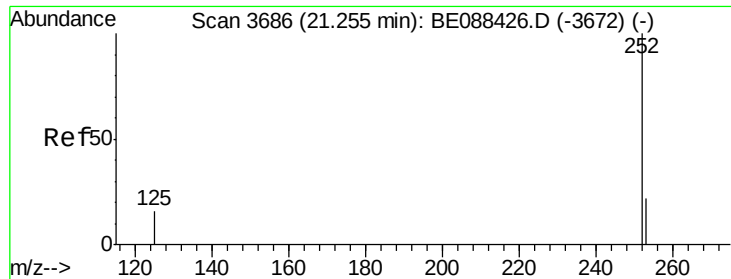


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

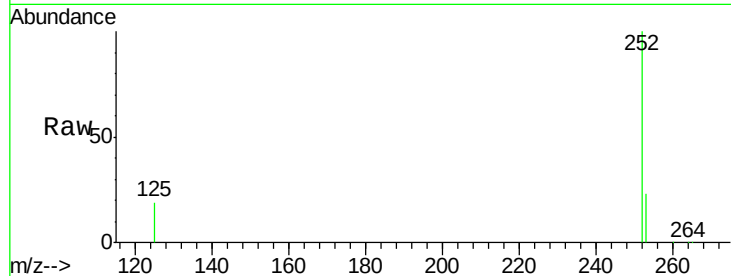




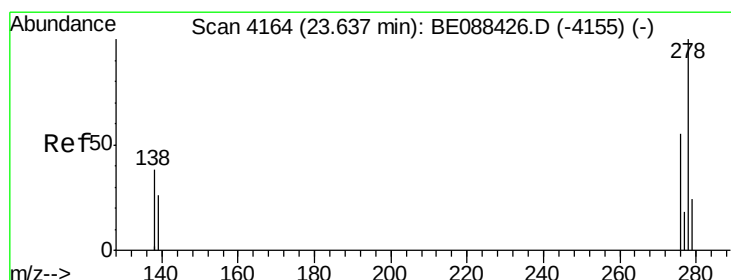
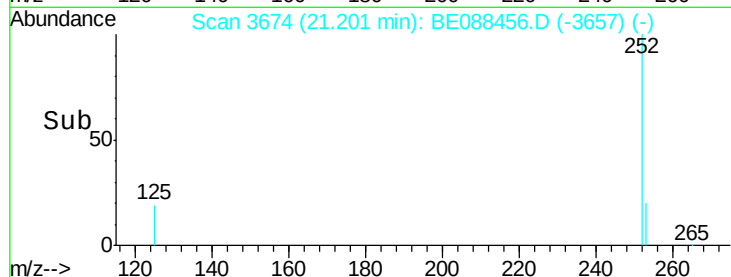
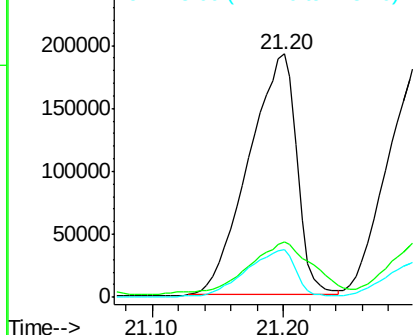
#25
Benzo(a)pyrene
Concen: 1188.47 ng
RT: 21.20 min Scan# 3674
Delta R.T. -0.05 min
Lab File: BE088456.D
Acq: 1 Nov 2014 18:07

Instrument :
BNA_E
ClientSampleId :
YS19-SB38-1014

Tgt Ion: 252 Resp: 490926
Ion Ratio Lower Upper
252 100
253 22.6 18.2 27.4
125 19.4 13.7 20.5

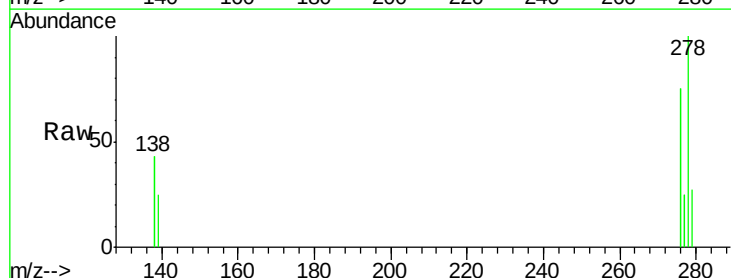


Abundance Ion 252.00 (251.70 to 252.70): E
Ion 253.00 (252.70 to 253.70): E
Ion 125.00 (124.70 to 125.70): E

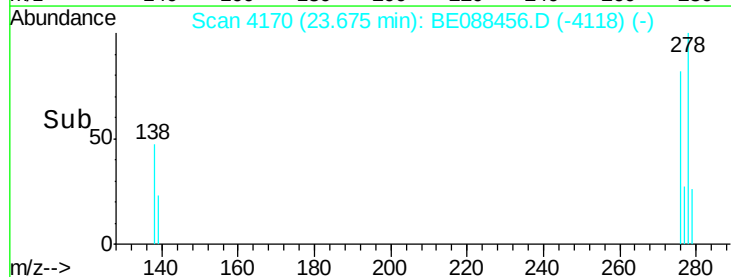
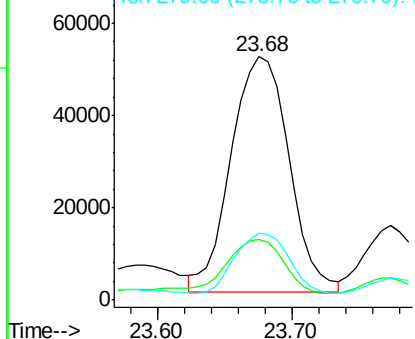


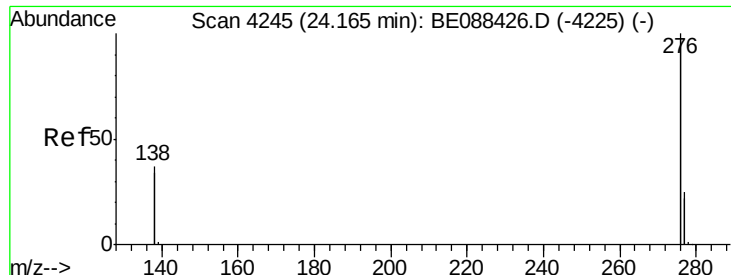
#26
Dibenzo(a,h)anthracene
Concen: 400.13 ng
RT: 23.68 min Scan# 4170
Delta R.T. 0.04 min
Lab File: BE088456.D
Acq: 1 Nov 2014 18:07

Tgt Ion: 278 Resp: 153498
Ion Ratio Lower Upper
278 100
139 24.9 22.1 33.1
279 27.2 19.7 29.5



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: 1380.72 ng

RT: 24.28 min Scan# 4263

Delta R.T. 0.12 min

Lab File: BE088456.D

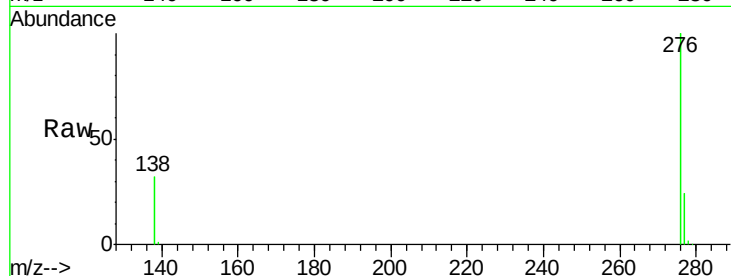
Acq: 1 Nov 2014 18:07

Instrument :

BNA_E

ClientSampleId :

YS19-SB38-1014



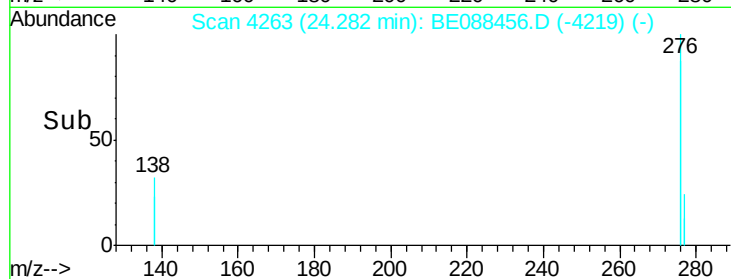
Tgt Ion:276 Resp: 2429044

Ion Ratio Lower Upper

276 100

277 23.7 19.8 29.6

138 32.1 29.3 43.9



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

