

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
 Data File : BE088170.D
 Acq On : 22 Oct 2014 8:01
 Operator : TP/JJ
 Sample : F4303-16DL 2X
 Misc :
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS06-1014DL

Quant Time: Oct 22 11:13:21 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	24839	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	96087	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	50038	5.00	ng	0.00
12) Phenanthrene-d10	12.97	188	95056	5.00	ng	0.00
16) Chrysene-d12	18.38	240	51868	5.00	ng	0.00
22) Perylene-d12	21.44	264	45328	5.00	ng	0.00

System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	248400	35.86	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	327559	23.70	ng	0.00
18) Terphenyl-d14	16.15	244	251486	30.13	ng	0.00

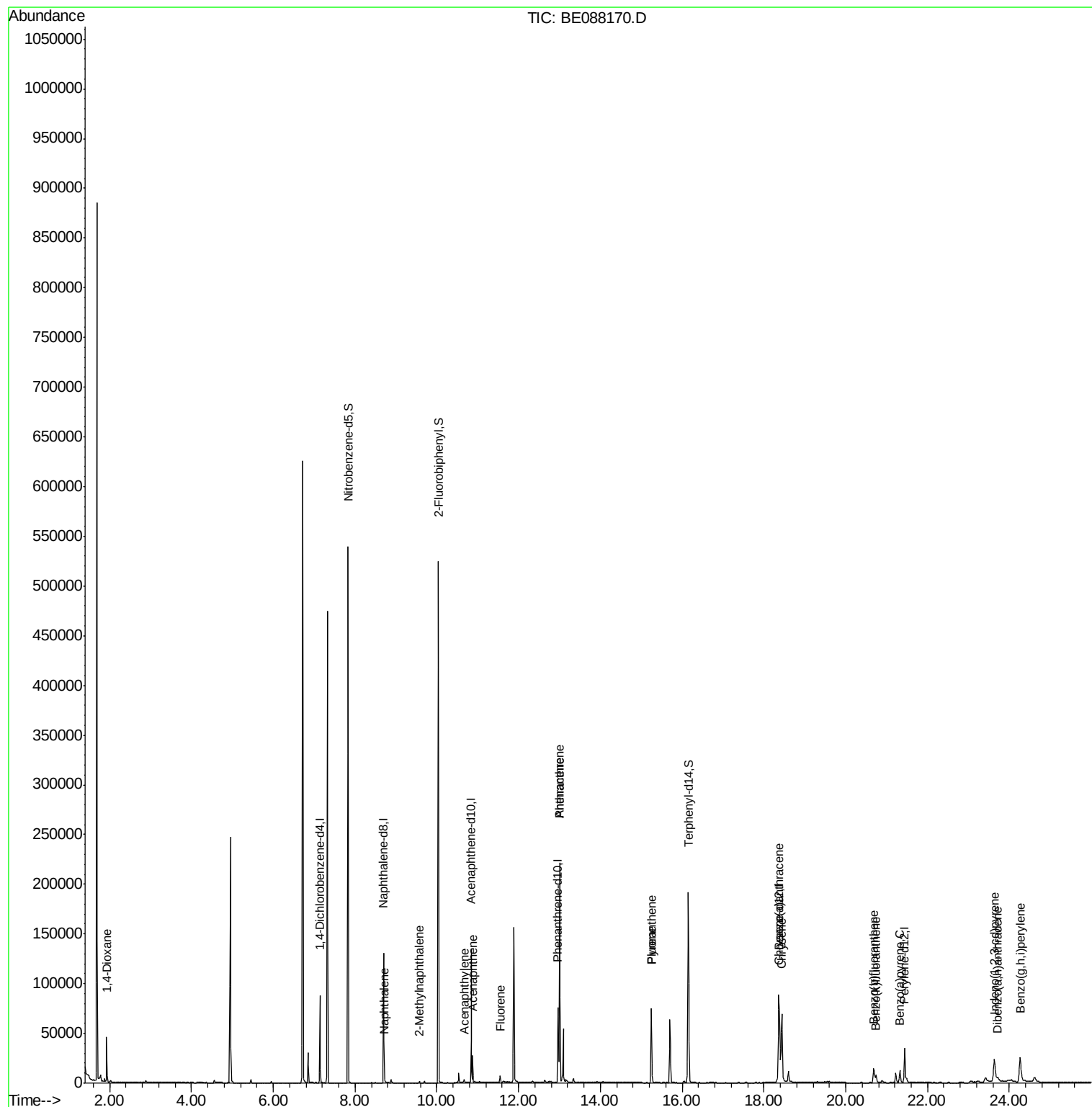
Target Compounds						Qvalue
2) 1,4-Dioxane	1.93	88	1459	0.41	ng	# 1
5) Naphthalene	8.72	128	2337	0.12	ng	97
6) 2-Methylnaphthalene	9.57	142	772	0.07	ng	# 95
9) Acenaphthylene	10.67	152	2952	0.04	ng	# 76
10) Acenaphthene	10.88	154	3442	0.29	ng	96
11) Fluorene	11.55	166	3517	0.28	ng	99
13) Phenanthrene	13.01	178	204708	2.82	ng	95
14) Anthracene	13.01	178	204708	2.76	ng	100
15) Fluoranthene	15.25	202	70005	3.87	ng	99
17) Pyrene	15.25	202	69773	4.95	ng	100
19) Benzo(a)anthracene	18.36	228	95971	2.08	ng	98
20) Chrysene	18.44	228	98117	2.17	ng	97
21) Indeno(1,2,3-cd)pyrene	23.64	276	52288	1.04	ng	# 83
23) Benzo(b)fluoranthene	20.69	252	25816	2.39	ng	98
24) Benzo(k)fluoranthene	20.74	252	11955	1.03	ng	97
25) Benzo(a)pyrene	21.32	252	18055	1.82	ng	98
26) Dibenzo(a,h)anthracene	23.72	278	2481	0.25	ng	# 89
27) Benzo(g,h,i)perylene	24.26	276	53912	1.25	ng	99

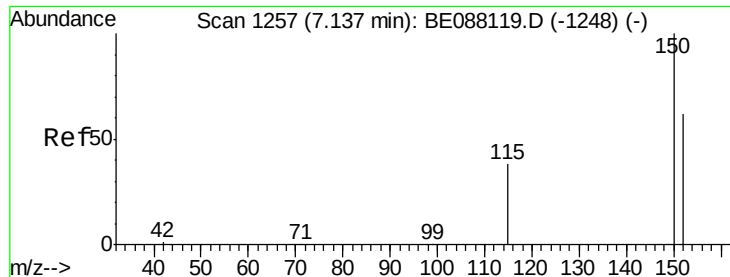
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
Data File : BE088170.D
Acq On : 22 Oct 2014 8:01
Operator : TP/JJ
Sample : F4303-16DL 2X
Misc :
ALS Vial : 28 Sample Multiplier: 1

Instrument :
BNA_E
ClientSampleId :
YS19-SS06-1014DL

Quant Time: Oct 22 11:13:21 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





#1

1,4-Dichlorobenzene-d4

Concen: 5.00 ng

RT: 7.14 min Scan# 1258

Delta R.T. 0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

YS19-SS06-1014DL

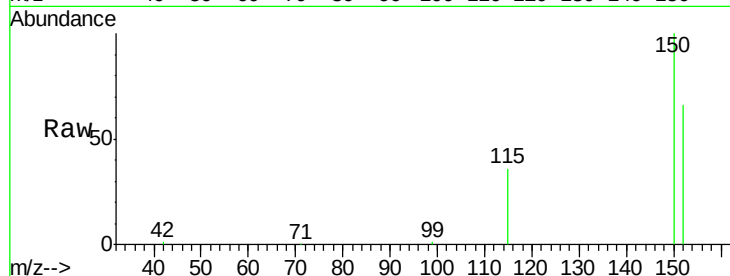
Tgt Ion: 152 Resp: 24839

Ion Ratio Lower Upper

152 100

150 150.7 129.2 193.8

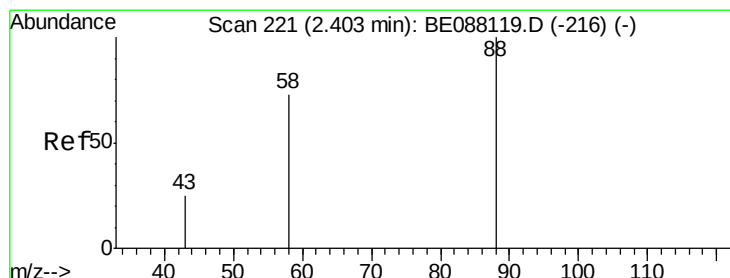
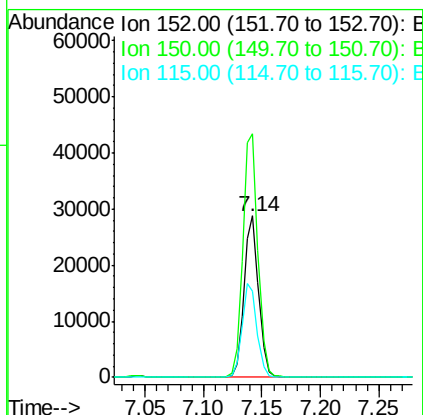
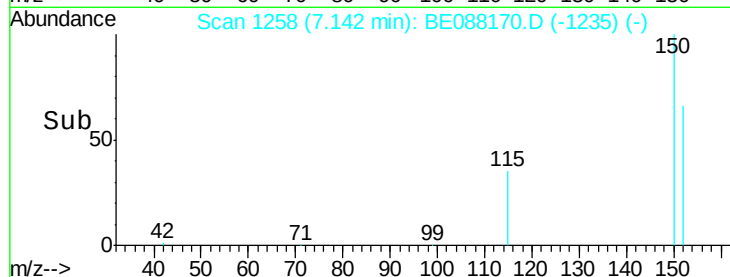
115 53.6 49.3 73.9



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: 0.41 ng

RT: 1.93 min Scan# 118

Delta R.T. -0.47 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

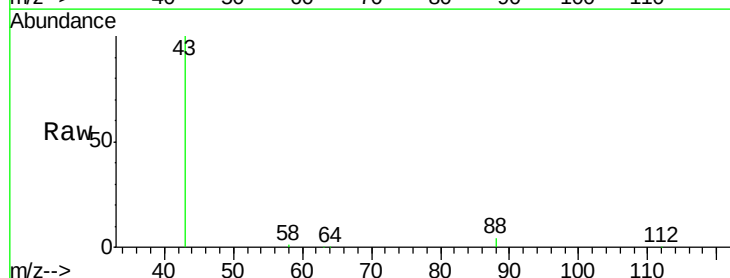
Tgt Ion: 88 Resp: 1459

Ion Ratio Lower Upper

88 100

58 24.0 59.5 89.3#

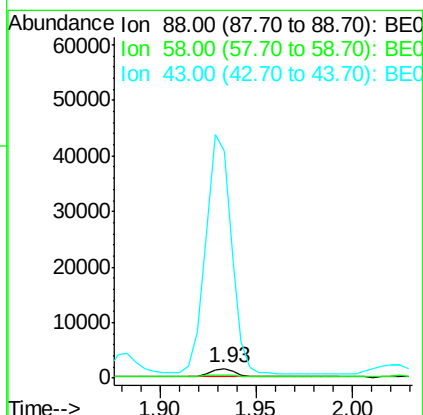
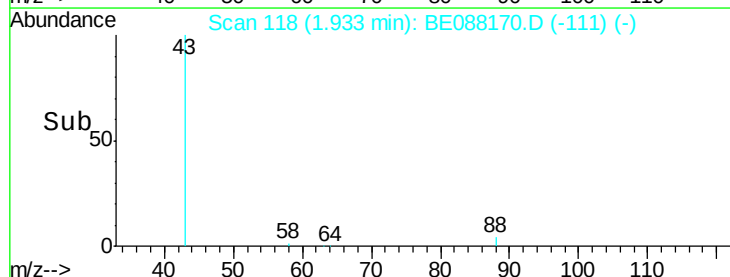
43 2705.0 21.2 31.8#

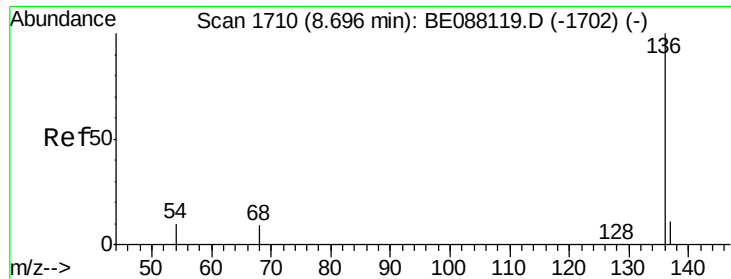


Abundance Ion 88.00 (87.70 to 88.70): BE0

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. 0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

YS19-SS06-1014DL

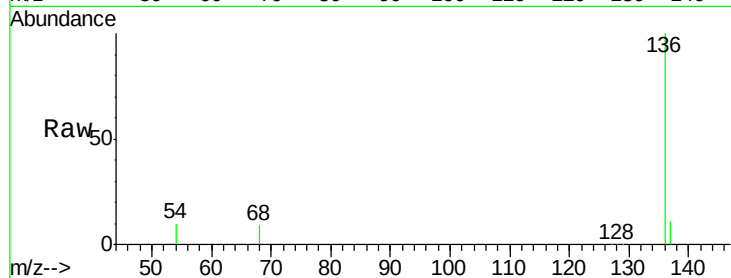
Tgt Ion: 136 Resp: 96087

Ion Ratio Lower Upper

136 100

137 10.6 8.6 12.8

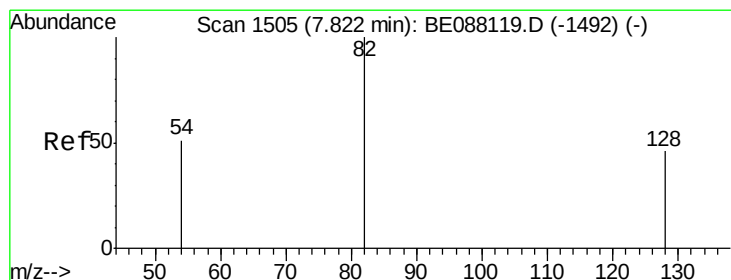
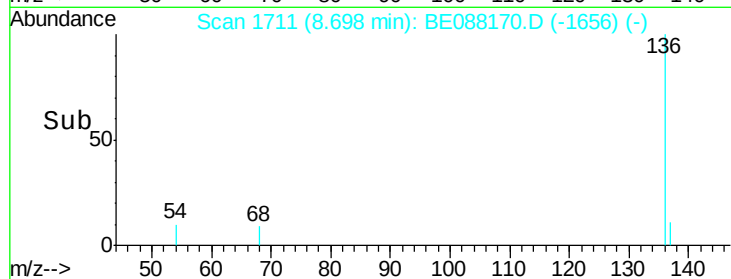
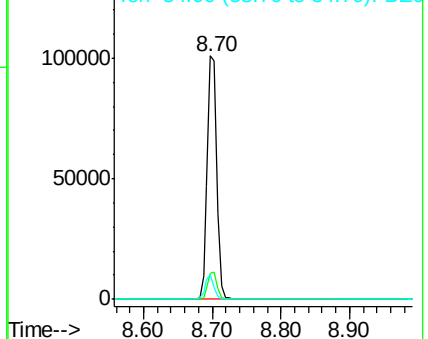
54 10.2 7.7 11.5



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: 35.86 ng

RT: 7.83 min Scan# 1509

Delta R.T. 0.01 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

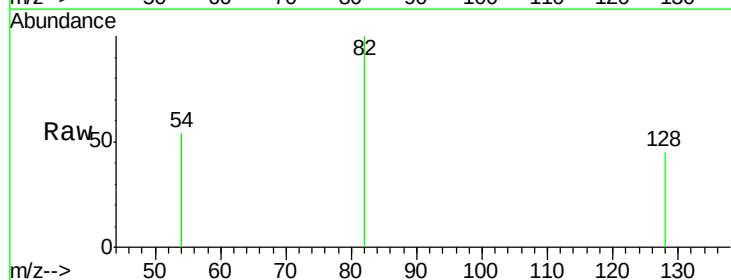
Tgt Ion: 82 Resp: 248400

Ion Ratio Lower Upper

82 100

128 45.4 37.1 55.7

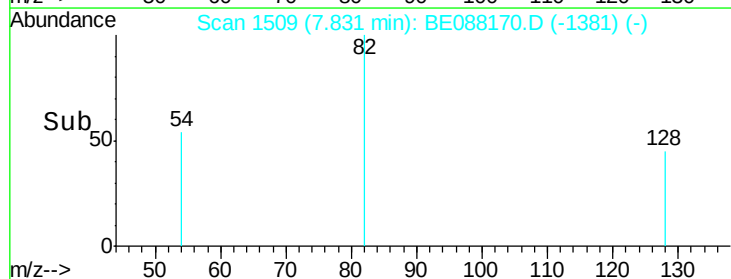
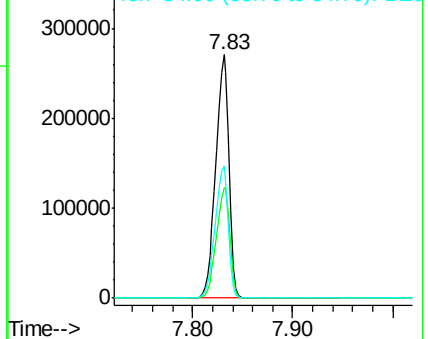
54 54.1 41.1 61.7

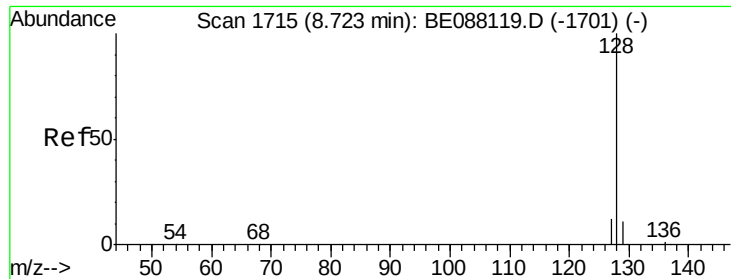


Abundance Ion 82.00 (81.70 to 82.70): BE0

Ion 128.00 (127.70 to 128.70): E

Ion 54.00 (53.70 to 54.70): BE0





#5

Naphthalene

Concen: 0.12 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

YS19-SS06-1014DL

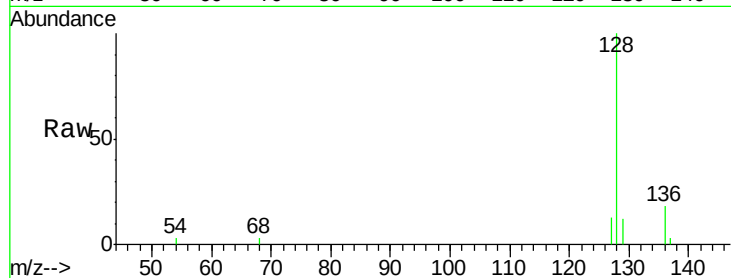
Tgt Ion:128 Resp: 2337

Ion Ratio Lower Upper

128 100

129 12.4 8.9 13.3

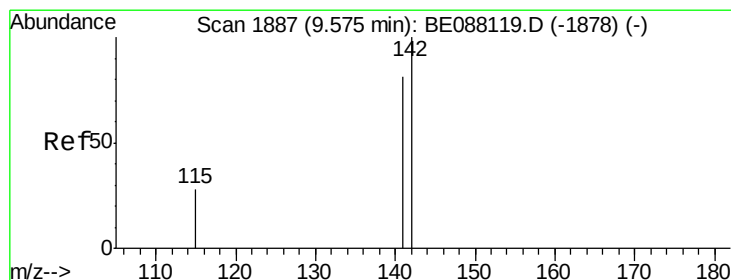
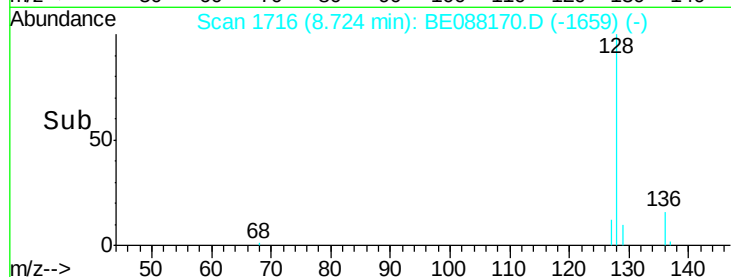
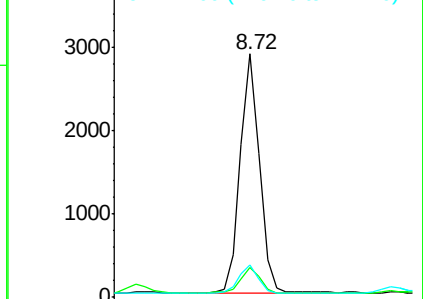
127 13.2 9.7 14.5



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: 0.07 ng

RT: 9.57 min Scan# 1888

Delta R.T. -0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

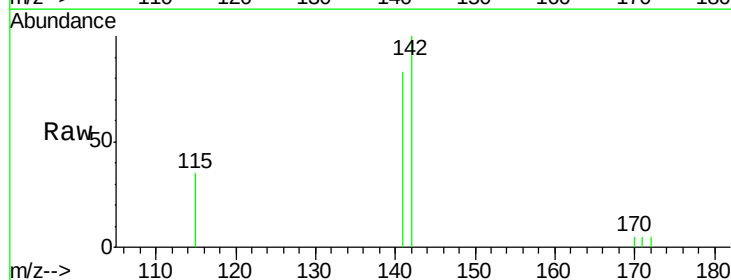
Tgt Ion:142 Resp: 772

Ion Ratio Lower Upper

142 100

141 83.2 64.6 97.0

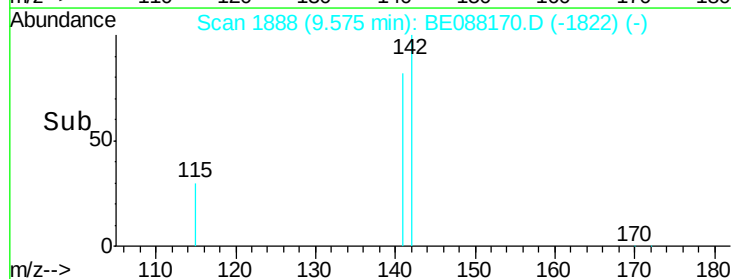
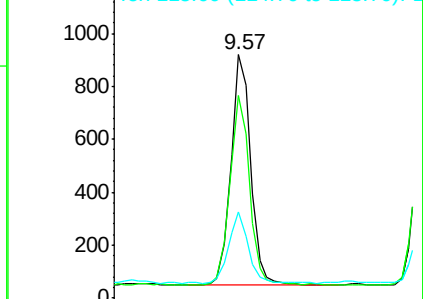
115 35.1 22.6 34.0#

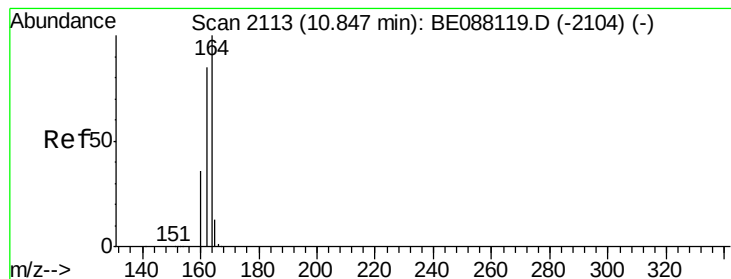


Abundance Ion 142.00 (141.70 to 142.70): E

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: BE088170.D

Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

YS19-SS06-1014DL

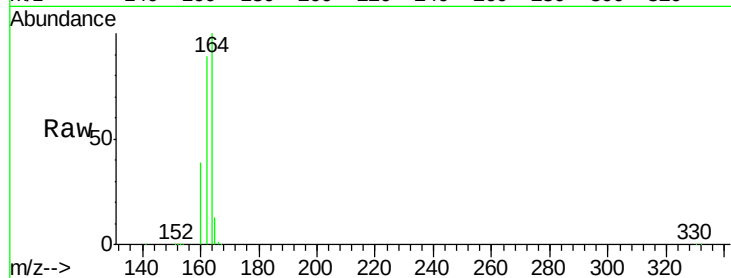
Tgt Ion:164 Resp: 50038

Ion Ratio Lower Upper

164 100

162 88.9 68.3 102.5

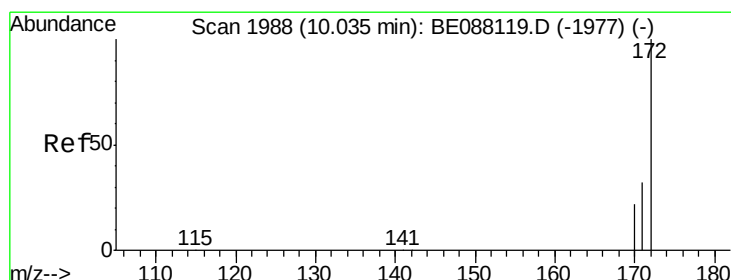
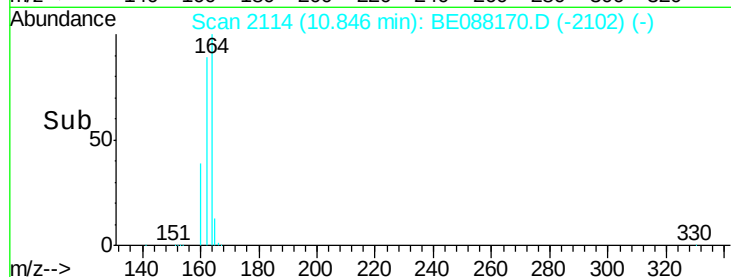
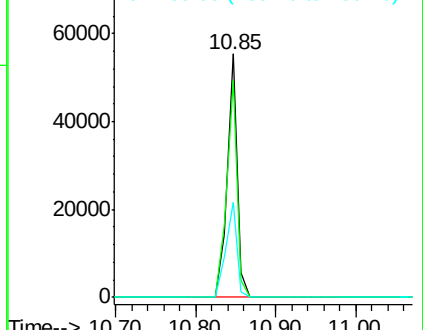
160 39.2 28.7 43.1



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#8

2-Fluorobiphenyl

Concen: 23.70 ng

RT: 10.04 min Scan# 1990

Delta R.T. 0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

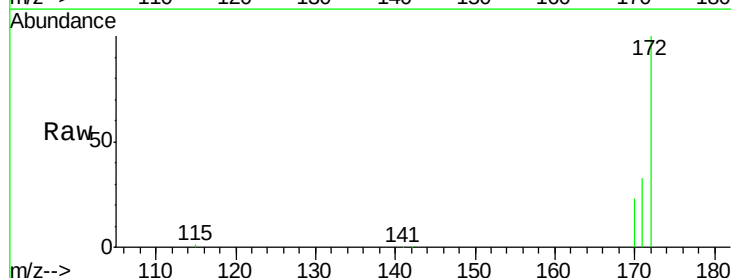
Tgt Ion:172 Resp: 327559

Ion Ratio Lower Upper

172 100

171 33.0 25.4 38.2

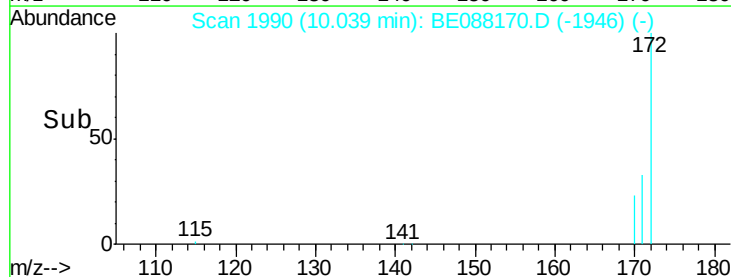
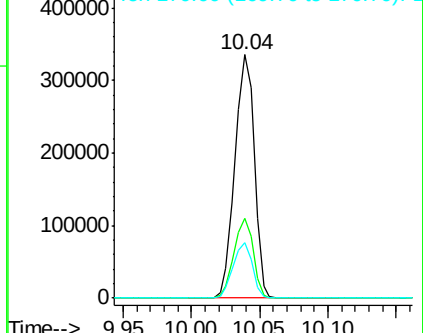
170 22.8 17.4 26.2

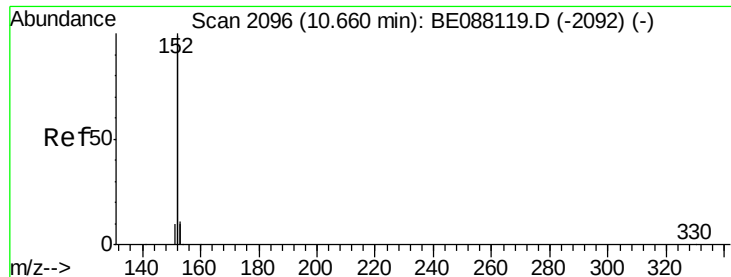


Abundance Ion 172.00 (171.70 to 172.70): E

Ion 171.00 (170.70 to 171.70): E

Ion 170.00 (169.70 to 170.70): E





#9

Acenaphthylene

Concen: 0.04 ng

RT: 10.67 min Scan# 2098

Delta R.T. 0.01 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

YS19-SS06-1014DL

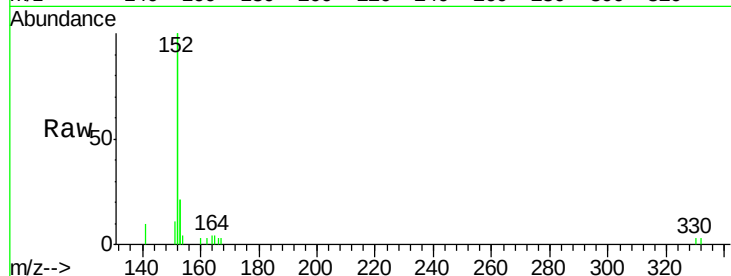
Tgt Ion:152 Resp: 2952

Ion Ratio Lower Upper

152 100

151 5.0 3.7 5.5

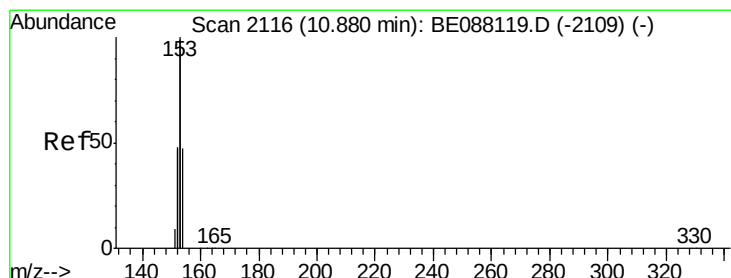
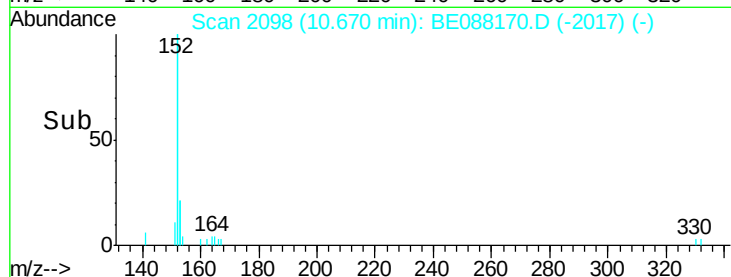
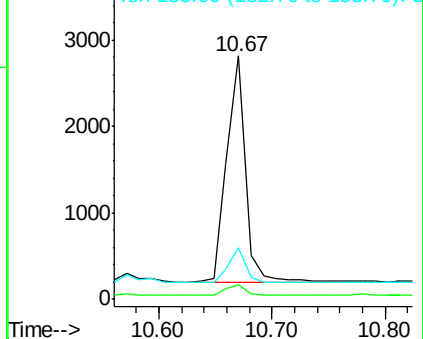
153 0.0 10.4 15.6#



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E



#10

Acenaphthene

Concen: 0.29 ng

RT: 10.88 min Scan# 2117

Delta R.T. -0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

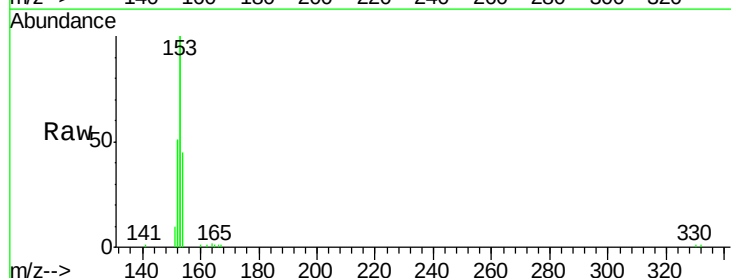
Tgt Ion:154 Resp: 3442

Ion Ratio Lower Upper

154 100

153 396.2 327.8 491.6

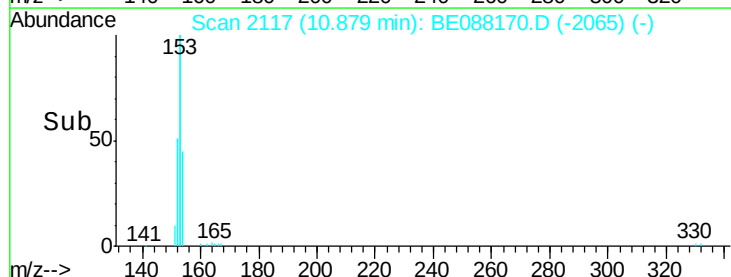
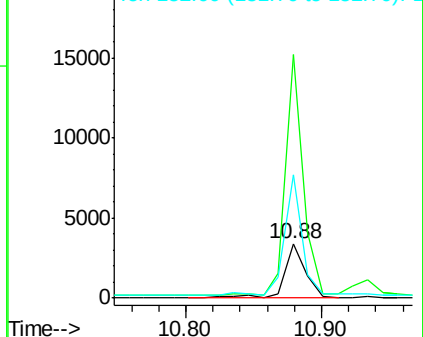
152 198.5 157.6 236.4

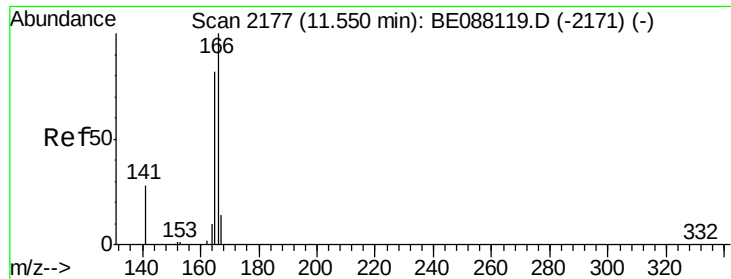


Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

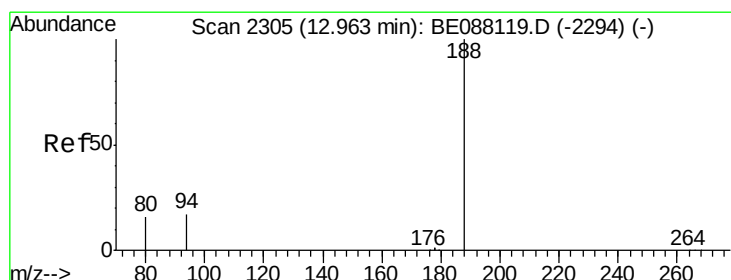
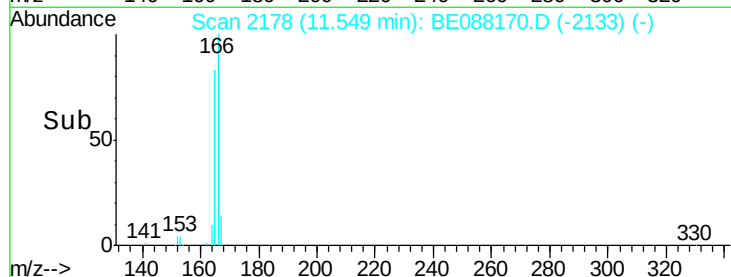
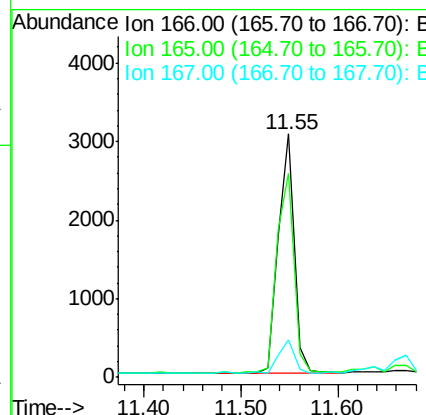
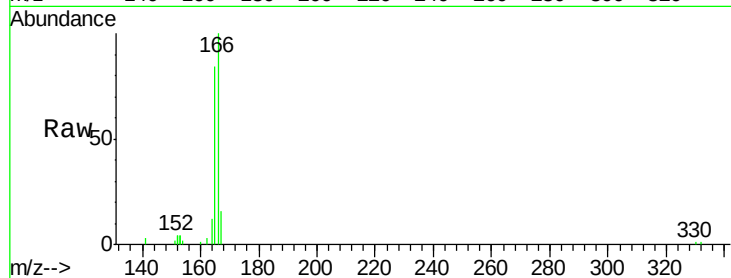




#11
 Fluorene
 Concen: 0.28 ng
 RT: 11.55 min Scan# 2178
 Delta R.T. -0.00 min
 Lab File: BE088170.D
 Acq: 22 Oct 2014 8:01

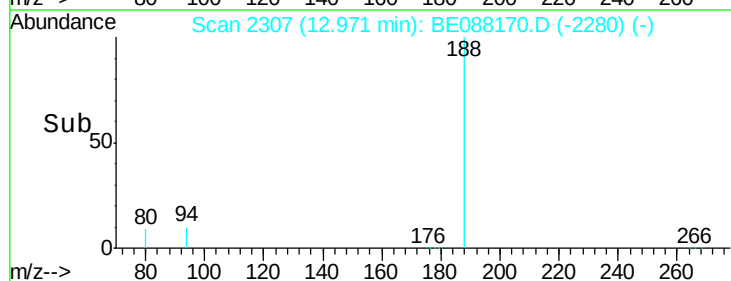
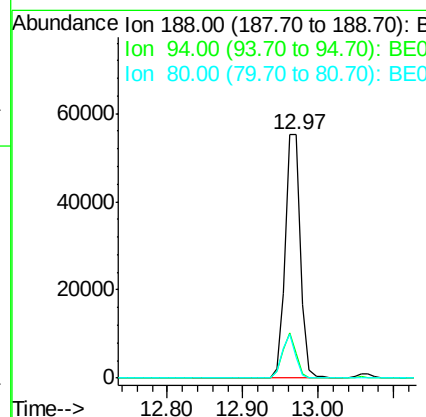
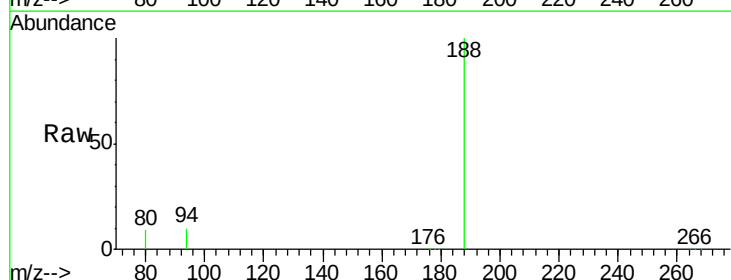
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS06-1014DL

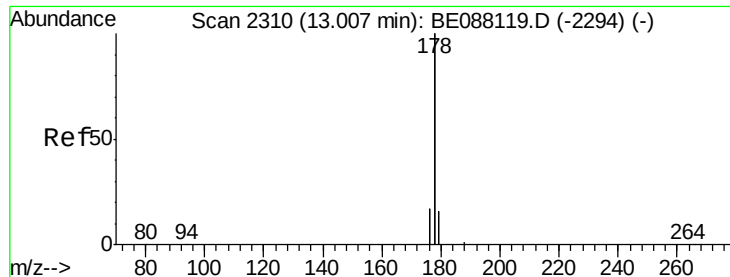
Tgt Ion:166 Resp: 3517
 Ion Ratio Lower Upper
 166 100
 165 90.2 71.4 107.2
 167 13.8 10.6 16.0



#12
 Phenanthrene-d10
 Concen: 5.00 ng
 RT: 12.97 min Scan# 2307
 Delta R.T. 0.01 min
 Lab File: BE088170.D
 Acq: 22 Oct 2014 8:01

Tgt Ion:188 Resp: 95056
 Ion Ratio Lower Upper
 188 100
 94 10.0 13.9 20.9#
 80 8.6 12.9 19.3#

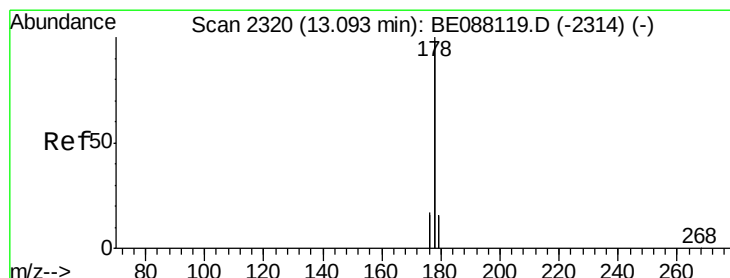
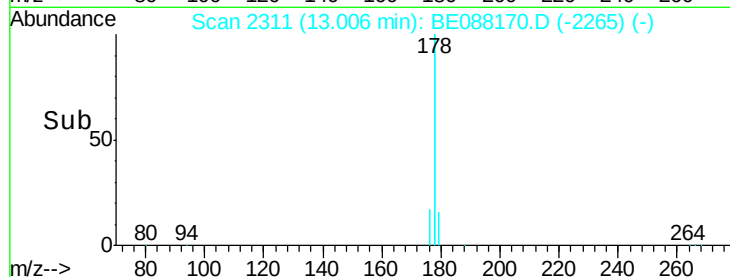
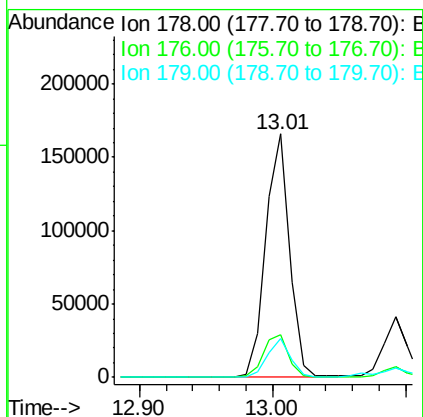
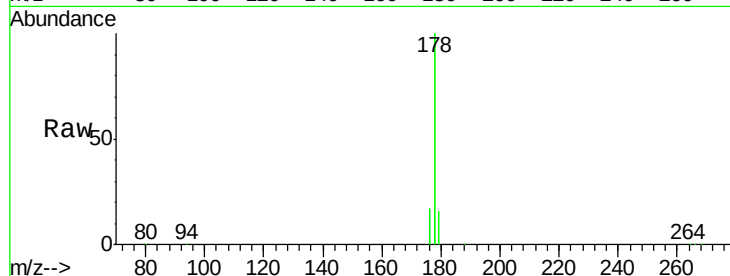




#13
Phenanthrene
Concen: 2.82 ng
RT: 13.01 min Scan# 2311
Delta R.T. -0.00 min
Lab File: BE088170.D
Acq: 22 Oct 2014 8:01

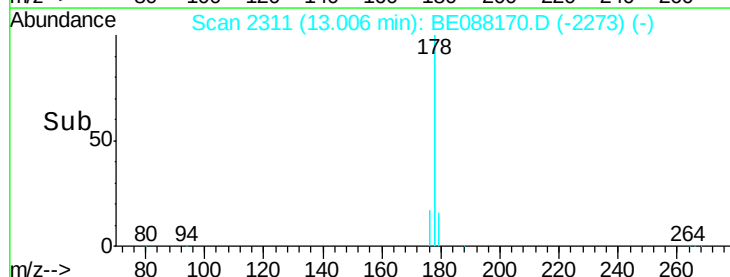
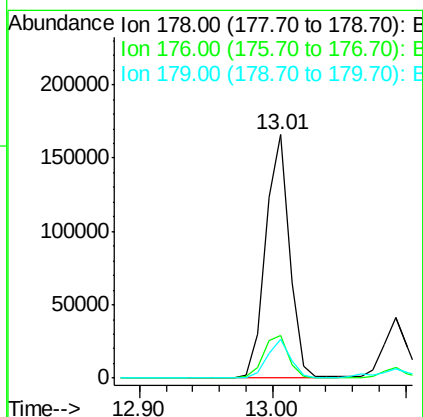
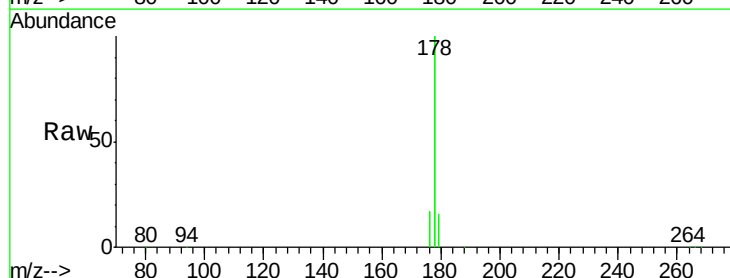
Instrument :
BNA_E
ClientSampleId :
YS19-SS06-1014DL

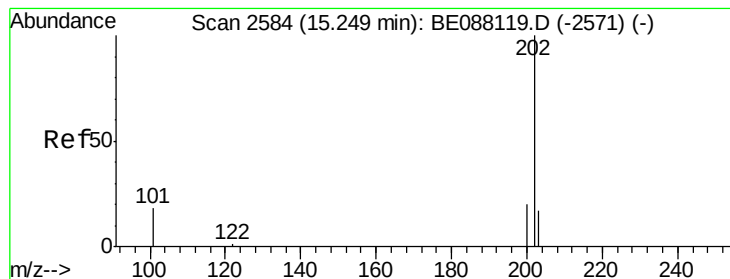
Tgt Ion:178 Resp: 204708
Ion Ratio Lower Upper
178 100
176 18.5 12.5 18.7
179 15.6 13.5 20.3



#14
Anthracene
Concen: 2.76 ng
RT: 13.01 min Scan# 2311
Delta R.T. -0.09 min
Lab File: BE088170.D
Acq: 22 Oct 2014 8:01

Tgt Ion:178 Resp: 204708
Ion Ratio Lower Upper
178 100
176 18.5 14.6 21.8
179 15.6 12.5 18.7





#15

Fluoranthene

Concen: 3.87 ng

RT: 15.25 min Scan# 2585

Delta R.T. -0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

YS19-SS06-1014DL

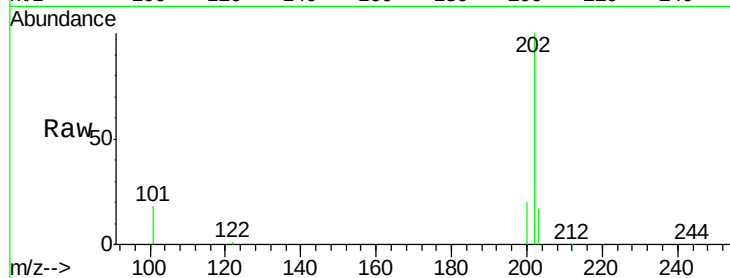
Tgt Ion: 202 Resp: 70005

Ion Ratio Lower Upper

202 100

101 18.3 14.8 22.2

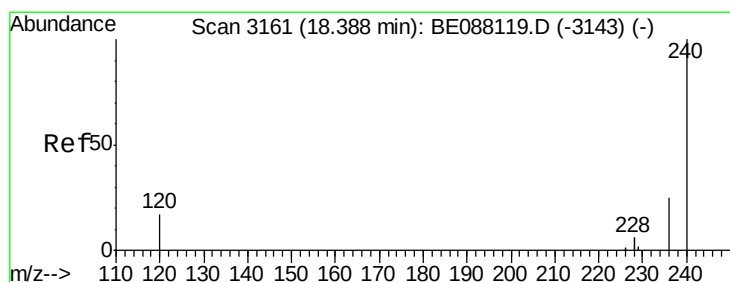
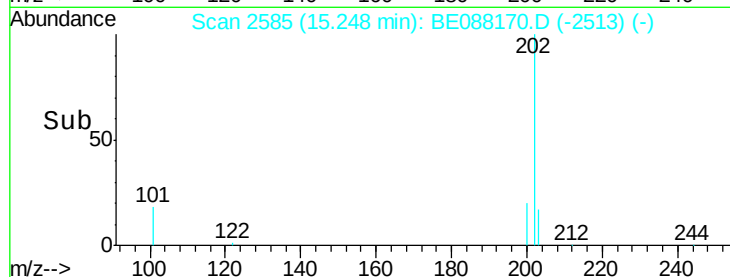
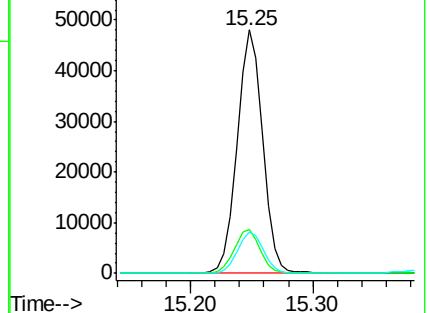
203 17.3 13.5 20.3



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# 3161

Delta R.T. -0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

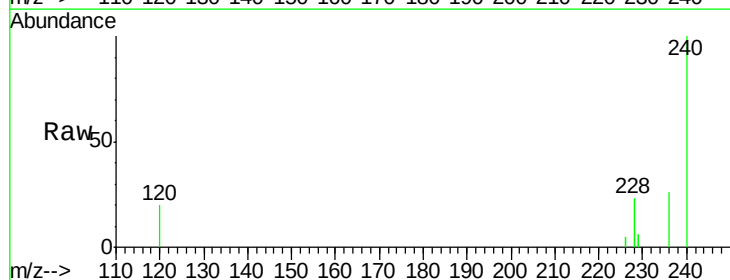
Tgt Ion: 240 Resp: 51868

Ion Ratio Lower Upper

240 100

120 19.6 13.9 20.9

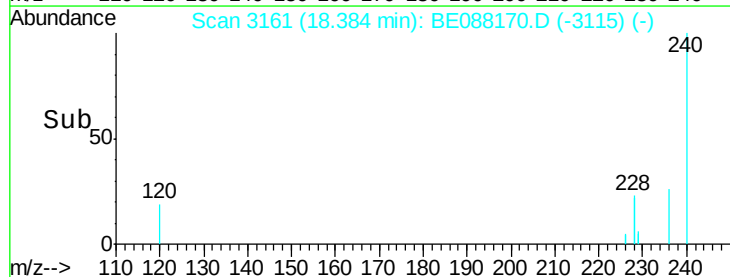
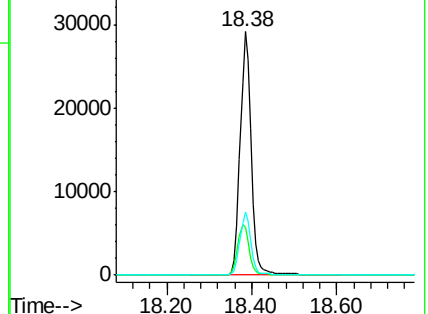
236 25.7 19.9 29.9

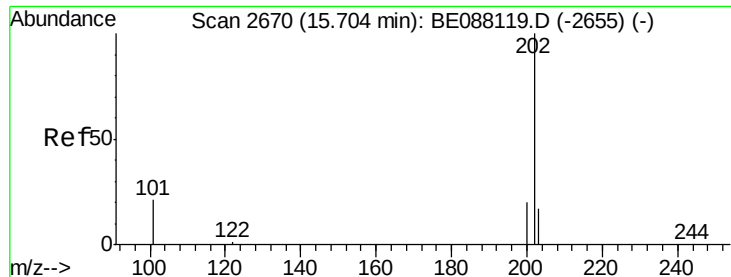


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E

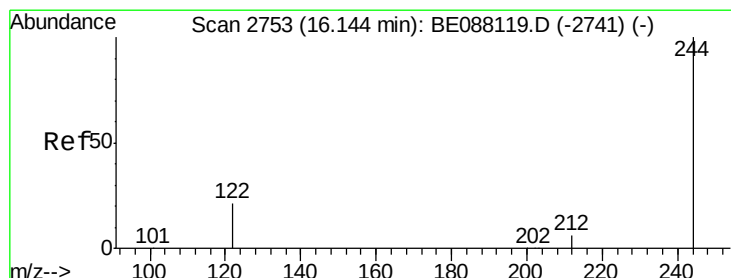
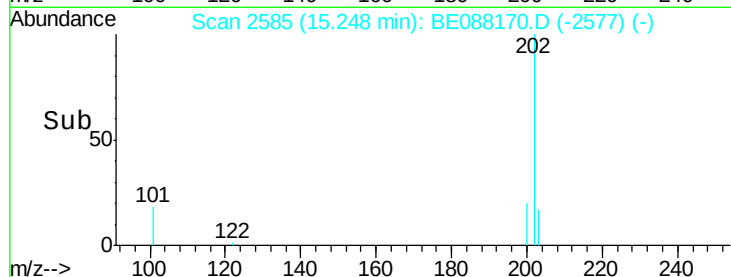
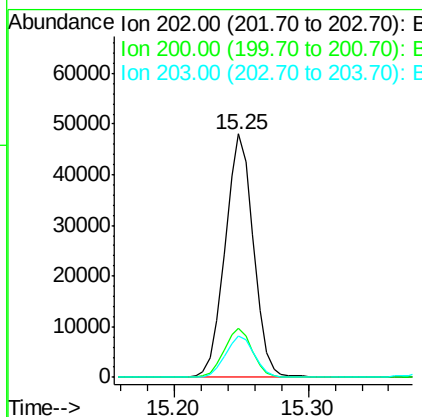
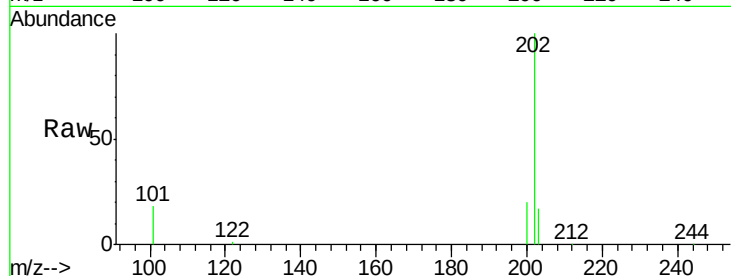




#17
Pyrene
 Concen: 4.95 ng
 RT: 15.25 min Scan# 2585
 Delta R.T. -0.46 min
 Lab File: BE088170.D
 Acq: 22 Oct 2014 8:01

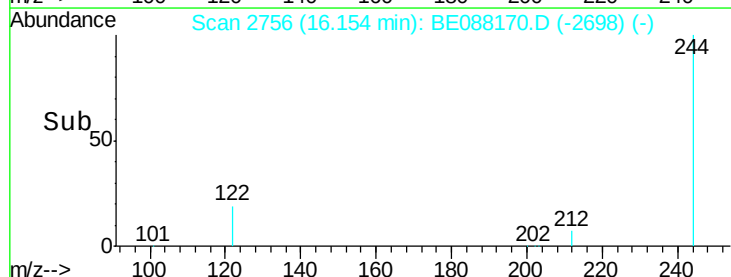
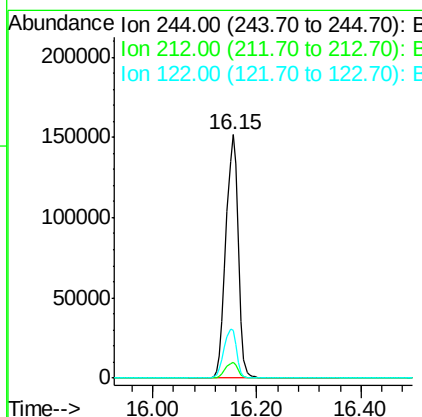
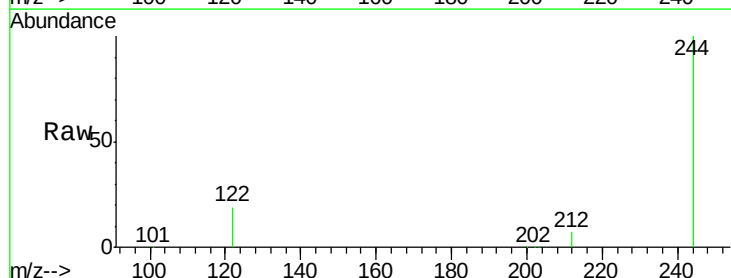
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS06-1014DL

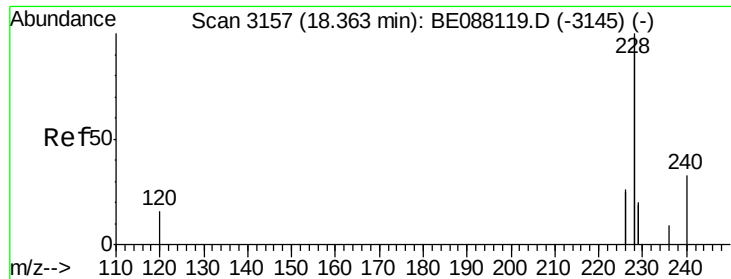
Tgt Ion: 202 Resp: 69773
 Ion Ratio Lower Upper
 202 100
 200 20.0 16.1 24.1
 203 17.3 13.9 20.9



#18
Terphenyl-d14
 Concen: 30.13 ng
 RT: 16.15 min Scan# 2756
 Delta R.T. 0.01 min
 Lab File: BE088170.D
 Acq: 22 Oct 2014 8:01

Tgt Ion: 244 Resp: 251486
 Ion Ratio Lower Upper
 244 100
 212 6.6 5.4 8.0
 122 19.4 17.5 26.3





#19

Benzo(a)anthracene

Concen: 2.08 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

YS19-SS06-1014DL

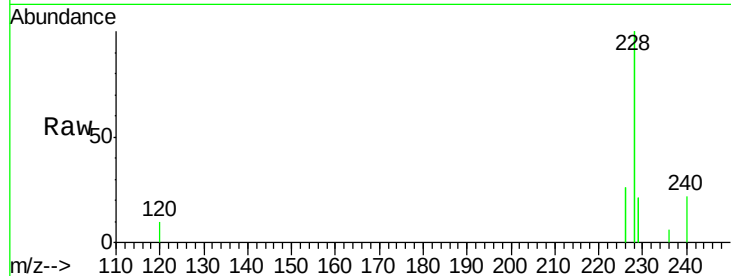
Tgt Ion:228 Resp: 95971

Ion Ratio Lower Upper

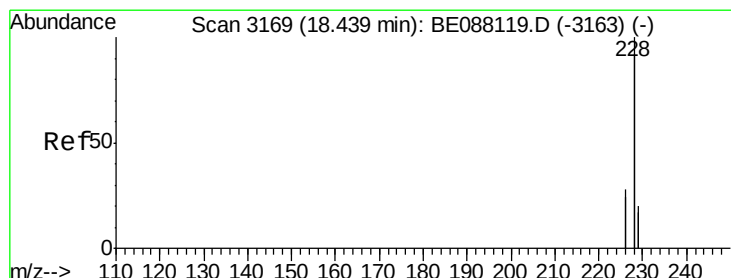
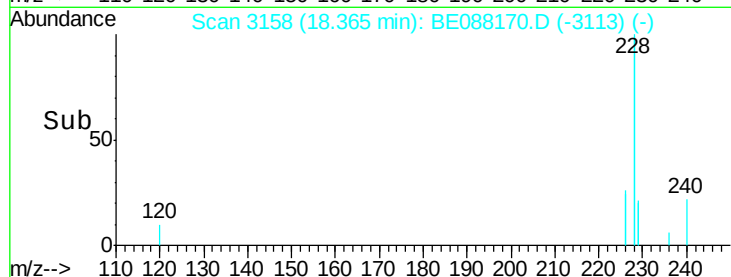
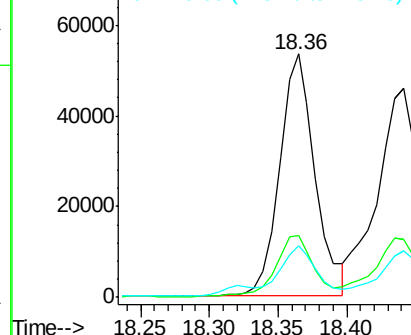
228 100

226 25.5 20.8 31.2

229 21.1 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: 2.17 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

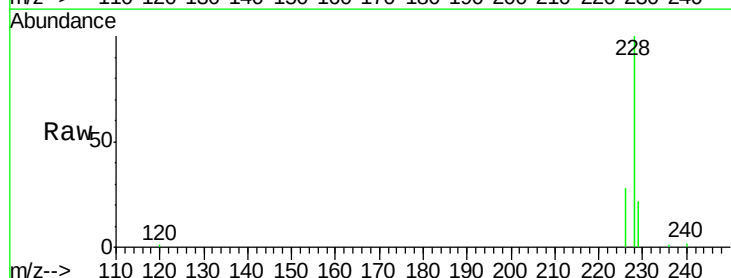
Tgt Ion:228 Resp: 98117

Ion Ratio Lower Upper

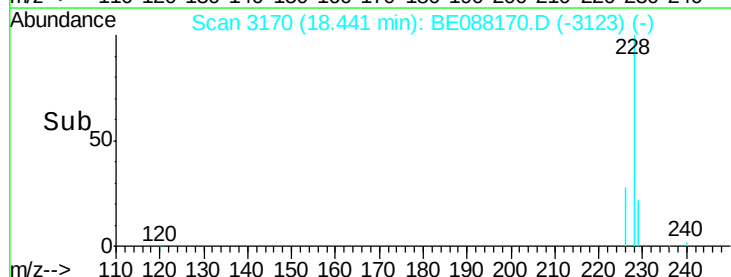
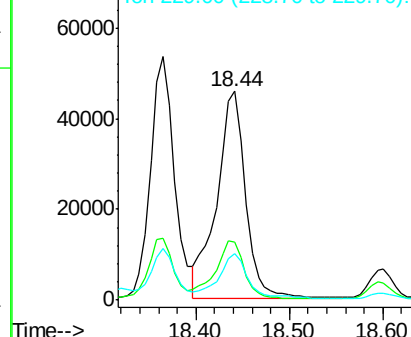
228 100

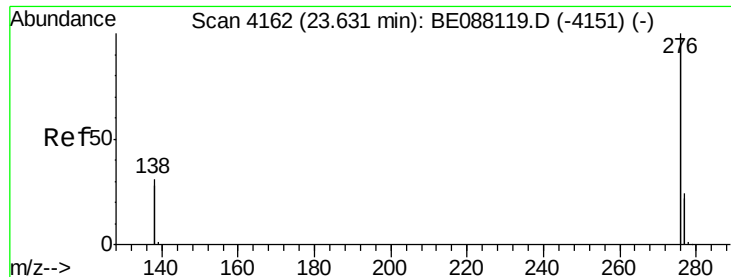
226 28.0 22.7 34.1

229 22.2 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: 1.04 ng

RT: 23.64 min Scan# 4164

Delta R.T. 0.01 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

YS19-SS06-1014DL

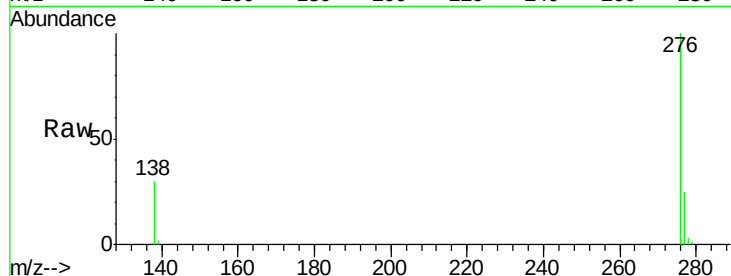
Tgt Ion:276 Resp: 52288

Ion Ratio Lower Upper

276 100

138 31.3 18.5 27.7#

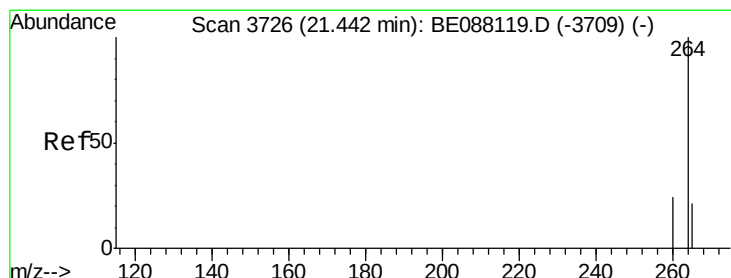
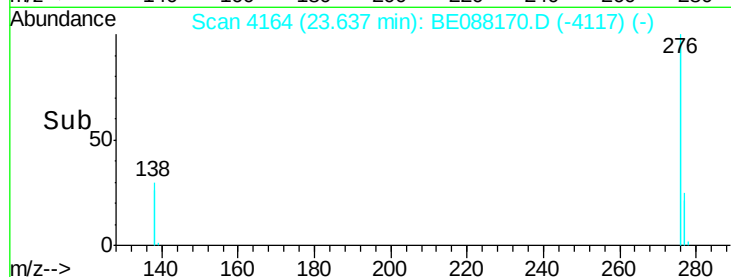
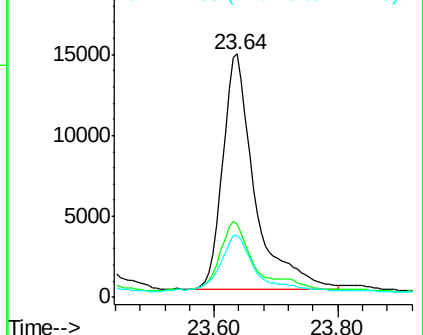
277 25.5 14.6 21.8#



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: BE088170.D

Acq: 22 Oct 2014 8:01

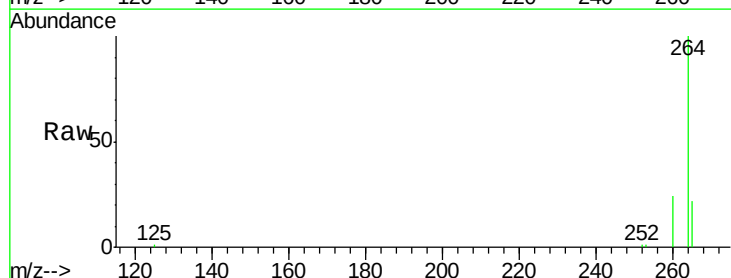
Tgt Ion:264 Resp: 45328

Ion Ratio Lower Upper

264 100

260 23.6 19.0 28.4

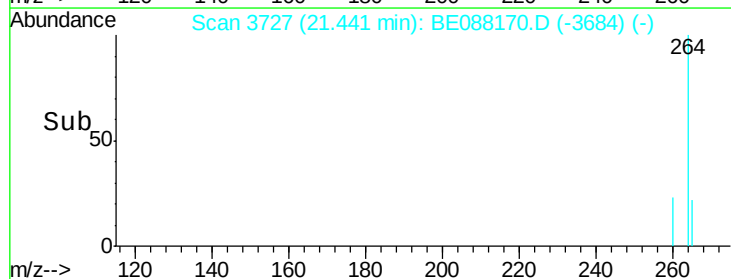
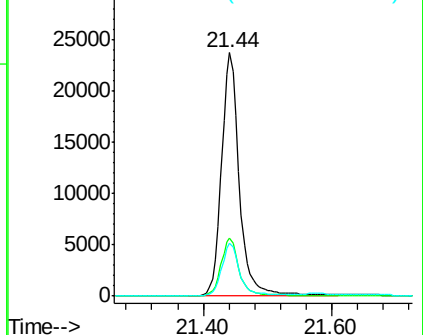
265 21.8 17.2 25.8

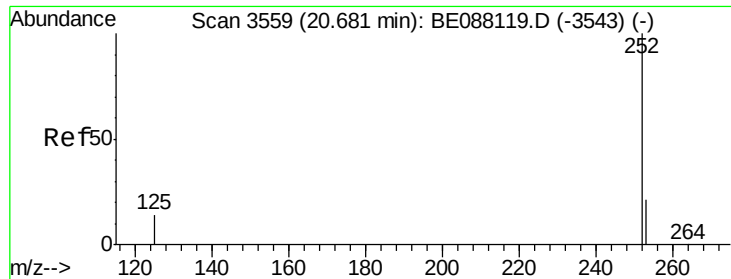


Abundance Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#23

Benzo(b)fluoranthene

Concen: 2.39 ng

RT: 20.69 min Scan# 3561

Delta R.T. 0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

YS19-SS06-1014DL

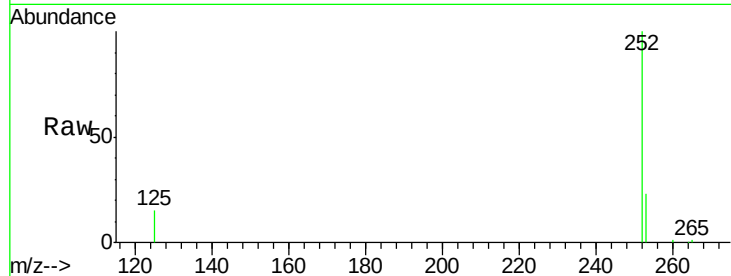
Tgt Ion: 252 Resp: 25816

Ion Ratio Lower Upper

252 100

253 22.7 17.4 26.0

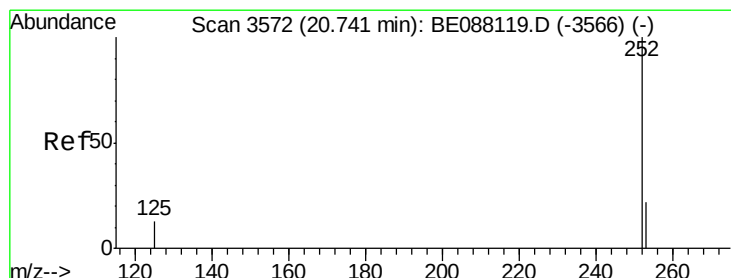
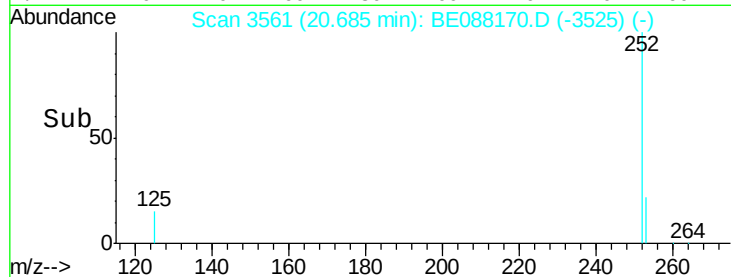
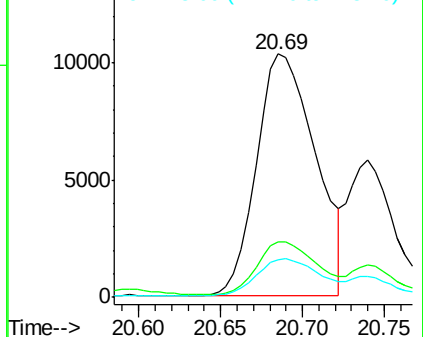
125 15.5 11.8 17.8



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: 1.03 ng

RT: 20.74 min Scan# 3573

Delta R.T. -0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

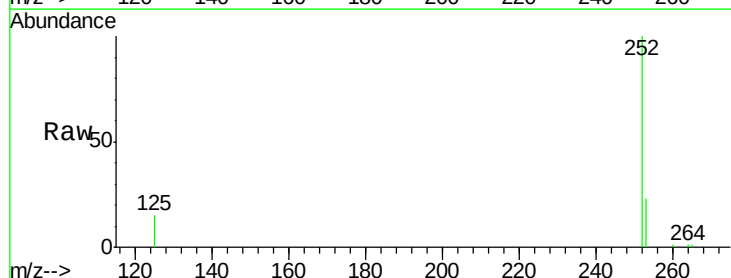
Tgt Ion: 252 Resp: 11955

Ion Ratio Lower Upper

252 100

253 23.4 17.6 26.4

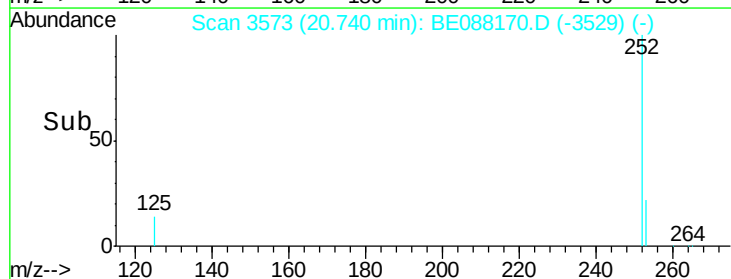
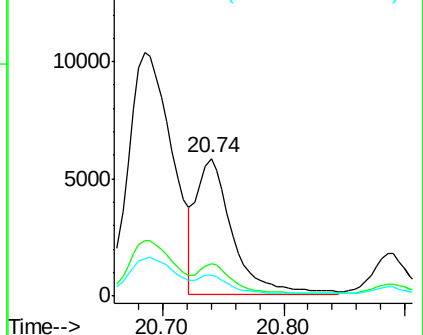
125 15.3 11.5 17.3

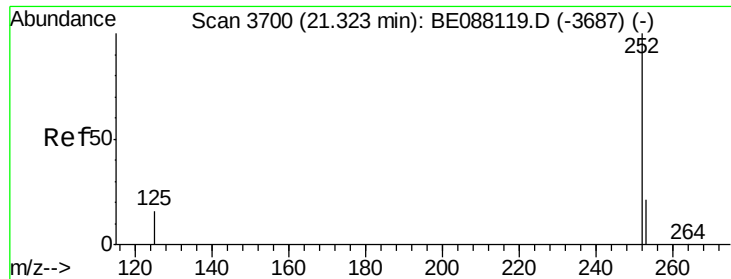


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#25

Benzo(a)pyrene

Concen: 1.82 ng

RT: 21.32 min Scan# 3701

Delta R.T. -0.00 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

YS19-SS06-1014DL

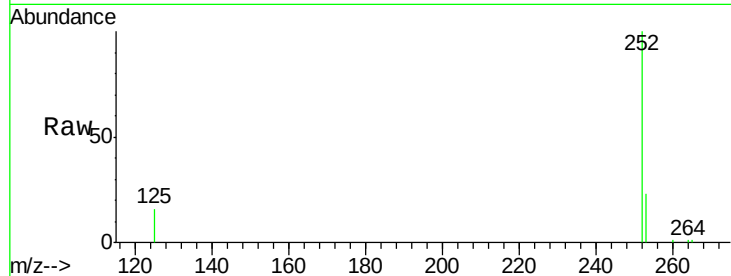
Tgt Ion: 252 Resp: 18055

Ion Ratio Lower Upper

252 100

253 23.4 17.5 26.3

125 15.9 13.0 19.6

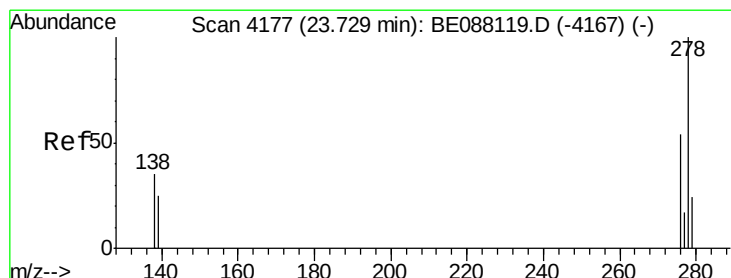
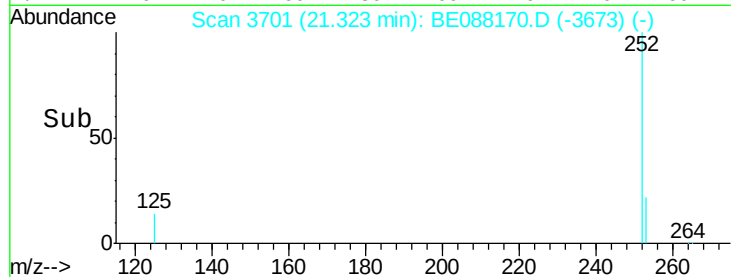
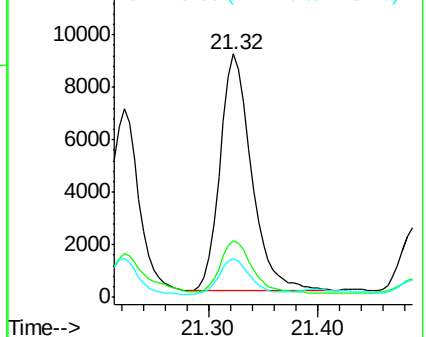


Abundance

Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#26

Dibenzo(a,h)anthracene

Concen: 0.25 ng

RT: 23.72 min Scan# 4177

Delta R.T. -0.01 min

Lab File: BE088170.D

Acq: 22 Oct 2014 8:01

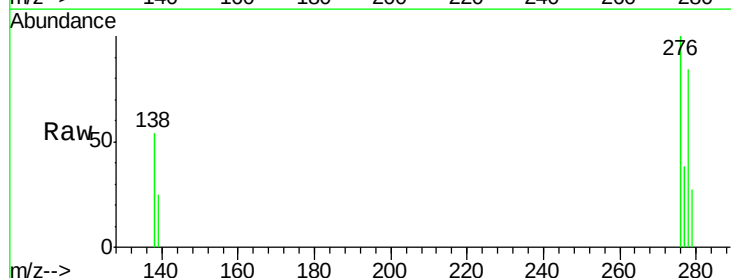
Tgt Ion: 278 Resp: 2481

Ion Ratio Lower Upper

278 100

139 30.4 20.9 31.3

279 31.8 19.8 29.8#

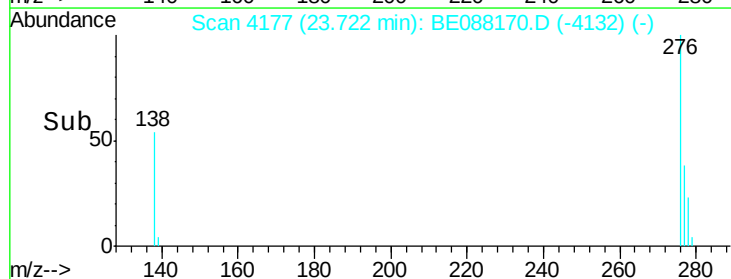
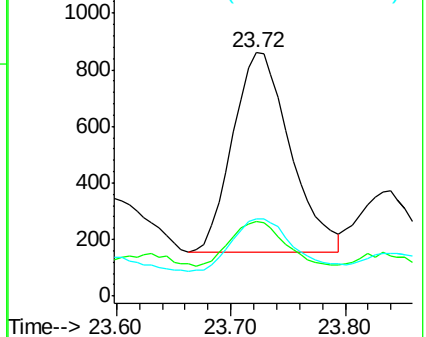


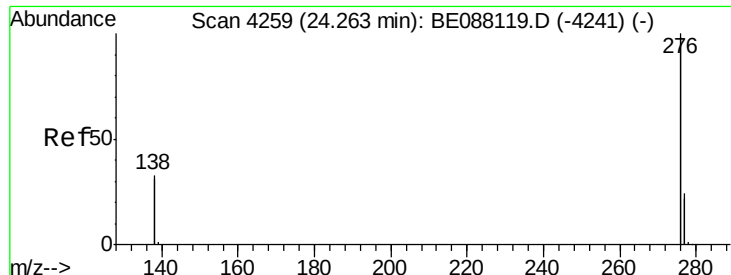
Abundance

Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E





#27

Benzo(g,h,i)perylene

Concen: 1.25 ng

RT: 24.26 min Scan# 4260

Delta R.T. -0.00 min

Lab File: BE088170.D

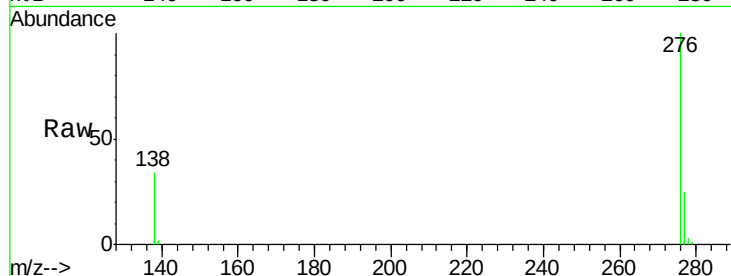
Acq: 22 Oct 2014 8:01

Instrument :

BNA_E

ClientSampleId :

YS19-SS06-1014DL



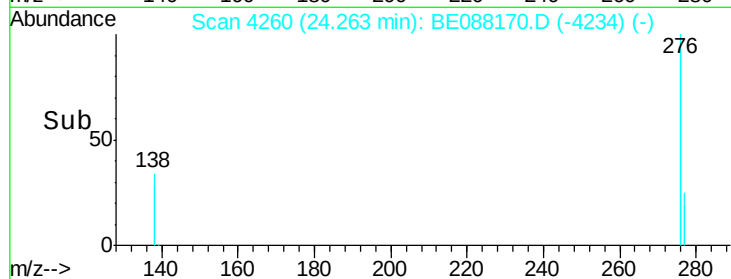
Tgt Ion: 276 Resp: 53912

Ion Ratio Lower Upper

276 100

277 24.5 19.2 28.8

138 34.2 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

