

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
 Data File : BE088177.D
 Acq On : 22 Oct 2014 11:57
 Operator : TP/JJ
 Sample : F4303-12DL 10X
 Misc :
 ALS Vial : 35 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB03-1014DL

Quant Time: Oct 22 12:56:27 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

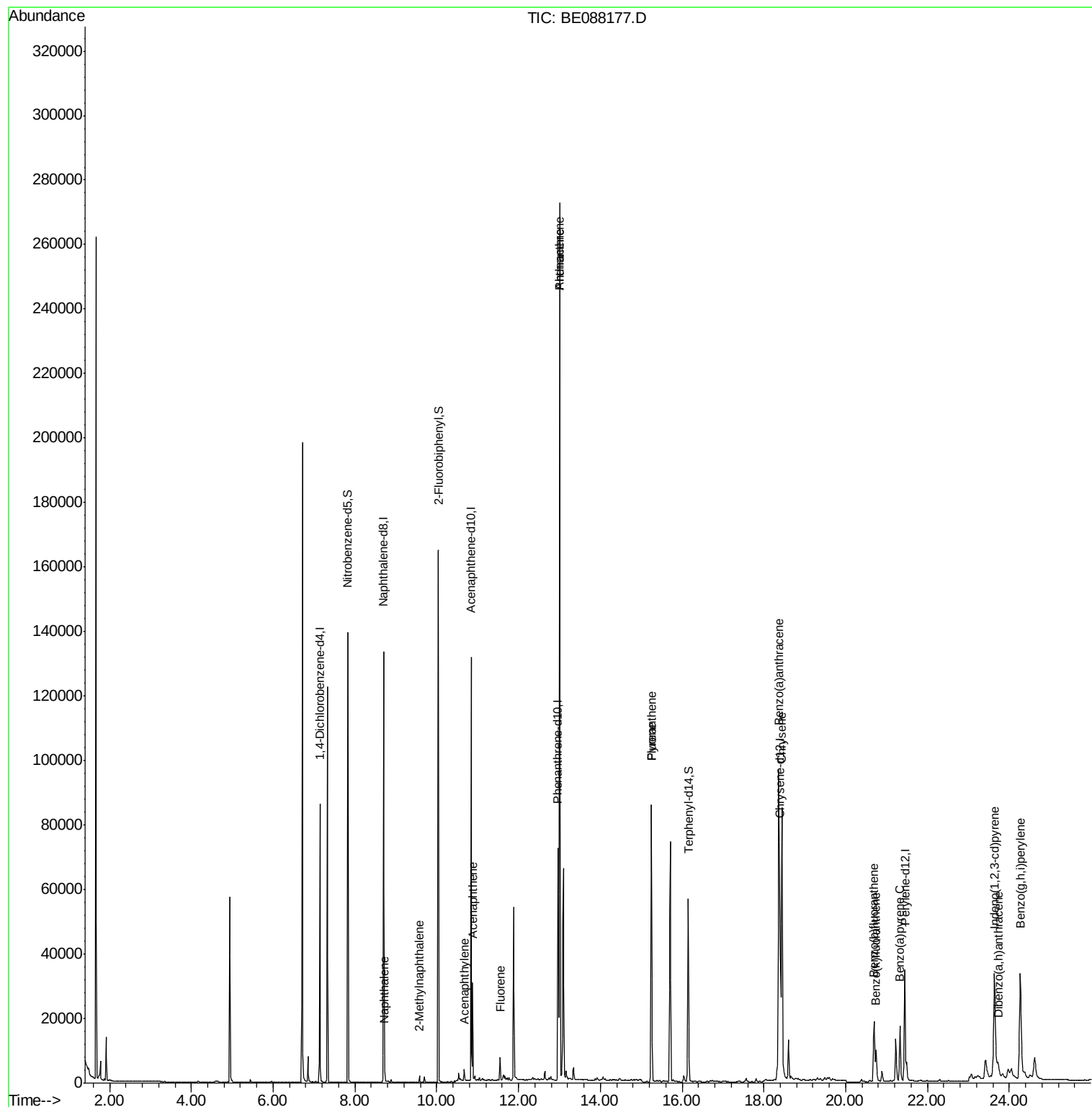
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	23554	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	96550	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	49756	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	90655	5.00	ng	0.00
16) Chrysene-d12	18.39	240	48343	5.00	ng	0.00
22) Perylene-d12	21.45	264	47257	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	59189	8.50	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	99796	7.26	ng	0.00
18) Terphenyl-d14	16.15	244	69815	8.97	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	2525	0.13	ng	97
6) 2-Methylnaphthalene	9.58	142	844	0.07	ng	# 93
9) Acenaphthylene	10.67	152	3392	0.04	ng	# 76
10) Acenaphthene	10.88	154	3799	0.32	ng	97
11) Fluorene	11.55	166	4294	0.35	ng	99
13) Phenanthrene	13.01	178	262011	3.87	ng	95
14) Anthracene	13.01	178	262011	3.70	ng	99
15) Fluoranthene	15.25	202	83373	4.83	ng	100
17) Pyrene	15.25	202	82703	6.29	ng	100
19) Benzo(a)anthracene	18.36	228	111218	2.59	ng	99
20) Chrysene	18.44	228	114959	2.73	ng	98
21) Indeno(1,2,3-cd)pyrene	23.64	276	69183	1.48	ng	# 88
23) Benzo(b)fluoranthene	20.69	252	33224	2.95	ng	98
24) Benzo(k)fluoranthene	20.74	252	13442	1.12	ng	97
25) Benzo(a)pyrene	21.33	252	23838	2.30	ng	97
26) Dibenzo(a,h)anthracene	23.73	278	3368	0.33	ng	# 90
27) Benzo(g,h,i)perylene	24.27	276	69830	1.55	ng	99

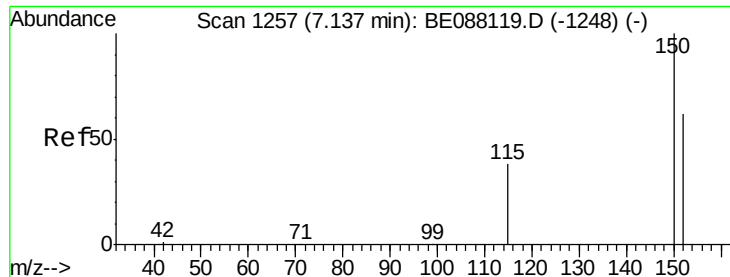
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088177.D

Acq: 22 Oct 2014 11:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

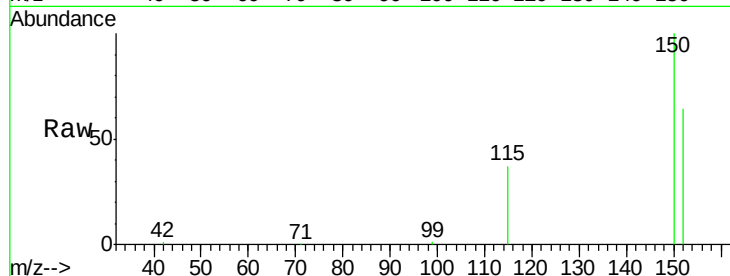
Tgt Ion:152 Resp: 23554

Ion Ratio Lower Upper

152 100

150 155.6 129.2 193.8

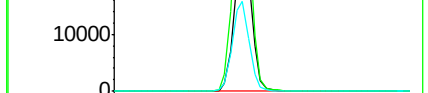
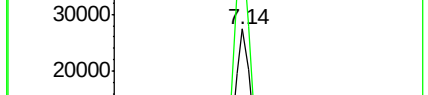
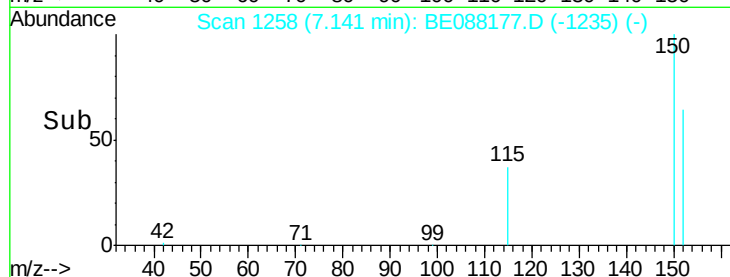
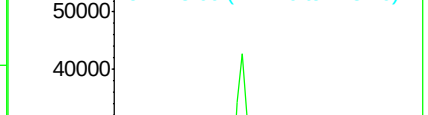
115 57.7 49.3 73.9



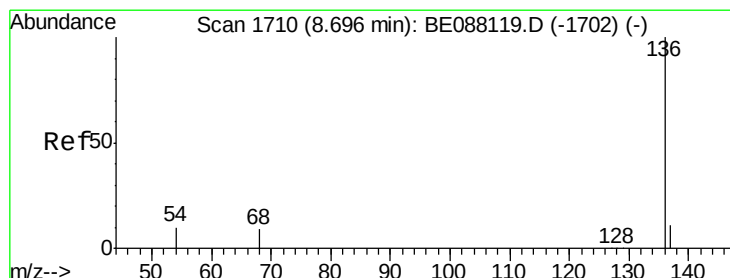
Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



Time-->



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

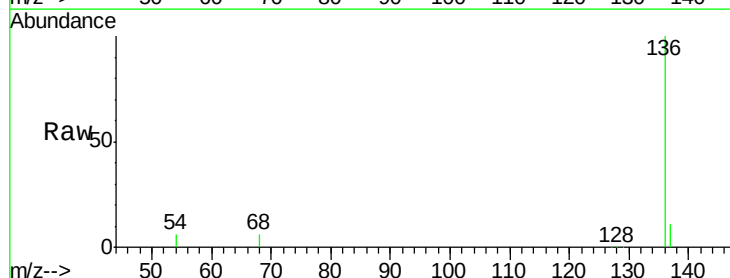
Tgt Ion:136 Resp: 96550

Ion Ratio Lower Upper

136 100

137 11.3 8.6 12.8

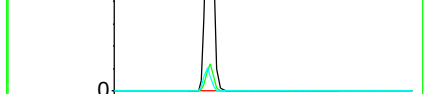
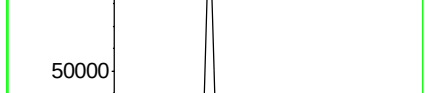
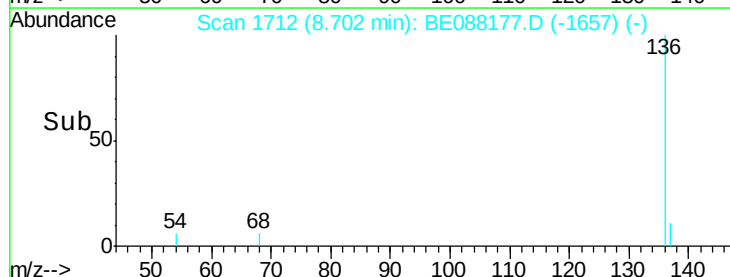
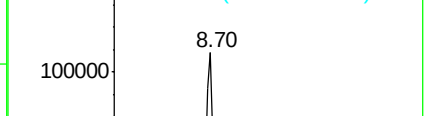
54 6.0 7.7 11.5#



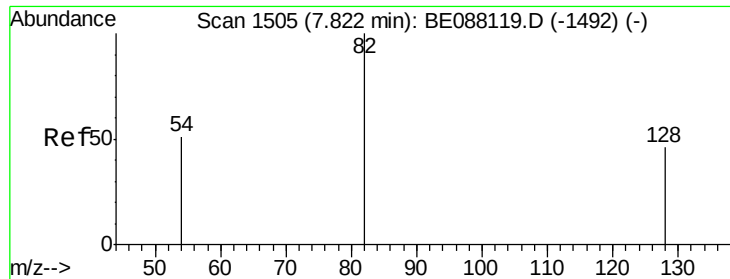
Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0



Time-->



#4

Nitrobenzene-d5

Concen: 8.50 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

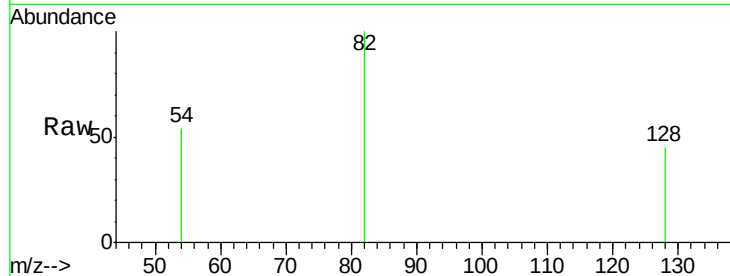
Tgt Ion: 82 Resp: 59189

Ion Ratio Lower Upper

82 100

128 45.2 37.1 55.7

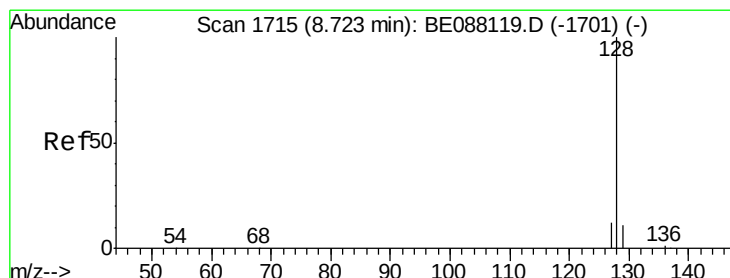
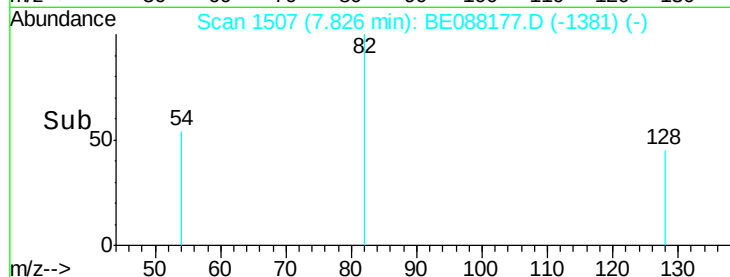
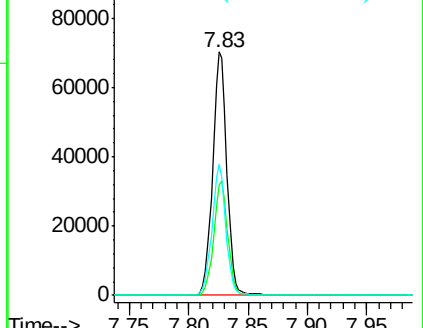
54 53.8 41.1 61.7



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: 0.13 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

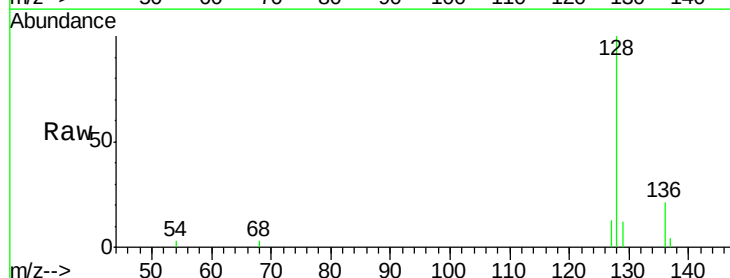
Tgt Ion: 128 Resp: 2525

Ion Ratio Lower Upper

128 100

129 11.9 8.9 13.3

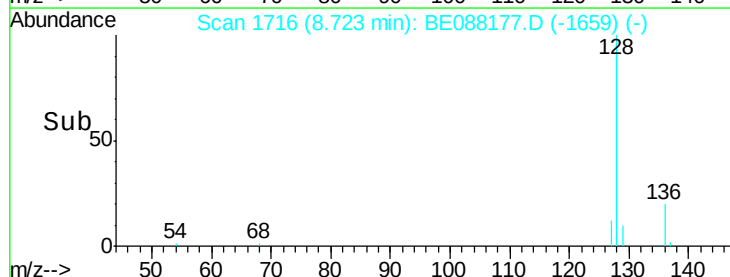
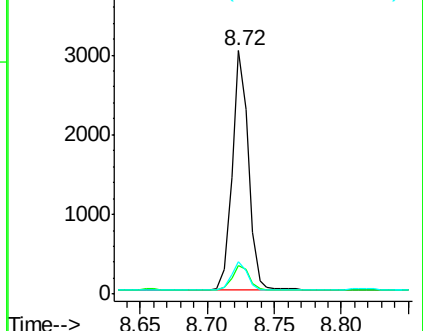
127 13.3 9.7 14.5

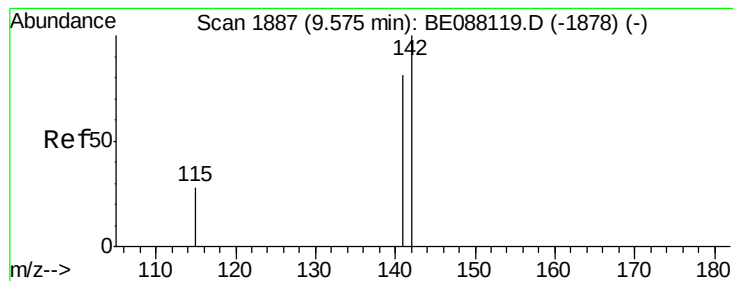


Abundance Ion 128.00 (127.70 to 128.70): E

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: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

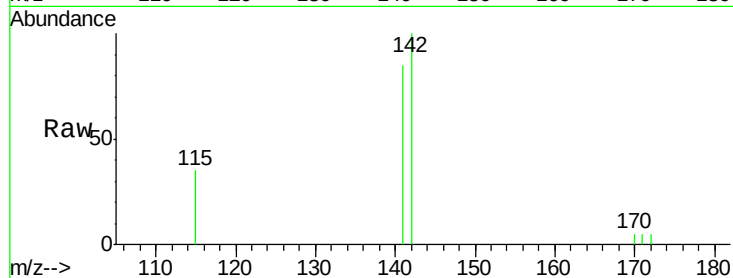
Tgt Ion:142 Resp: 844

Ion Ratio Lower Upper

142 100

141 84.6 64.6 97.0

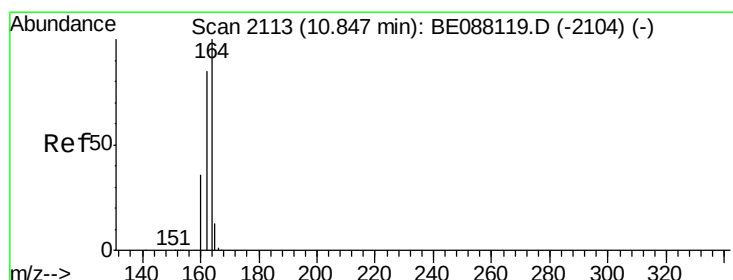
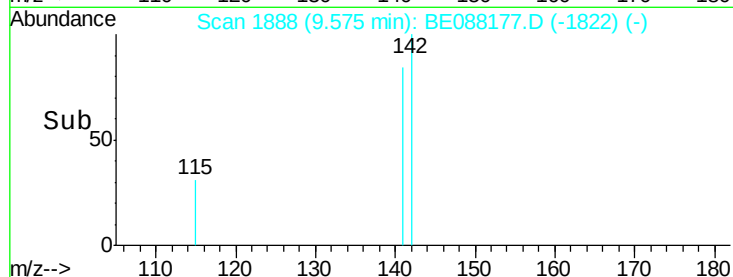
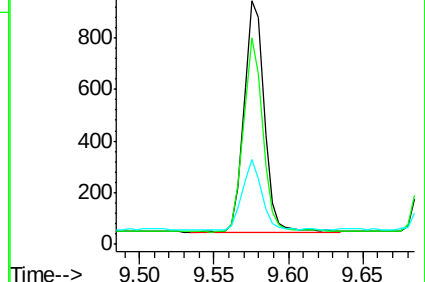
115 35.1 22.6 34.0#



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: BE088177.D

Acq: 22 Oct 2014 11:57

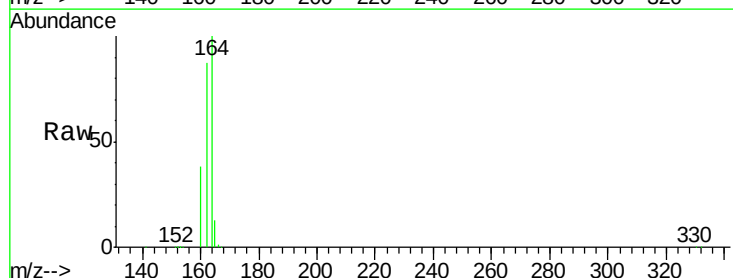
Tgt Ion:164 Resp: 49756

Ion Ratio Lower Upper

164 100

162 87.5 68.3 102.5

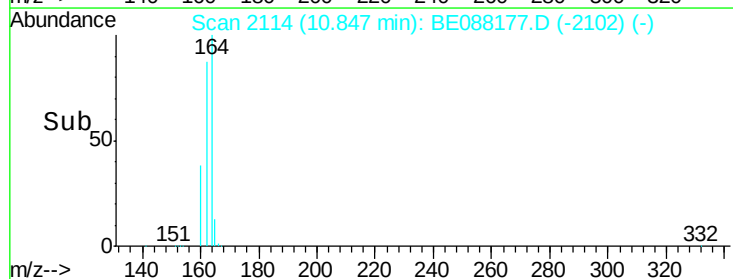
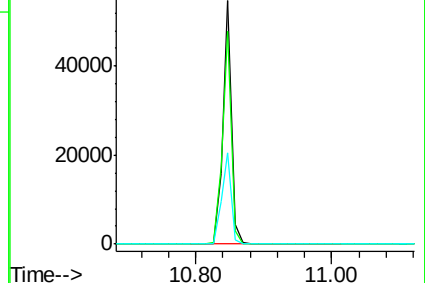
160 37.6 28.7 43.1

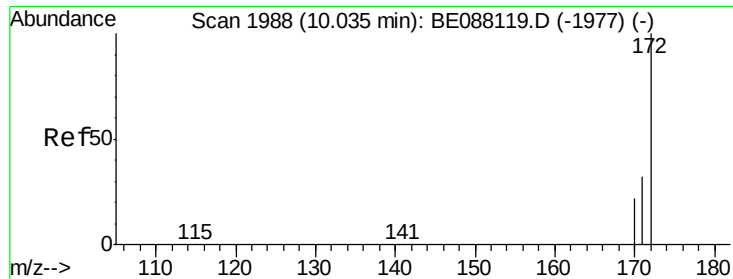


Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E





#8

2-Fluorobiphenyl

Concen: 7.26 ng

RT: 10.04 min Scan# 1990

Delta R.T. 0.00 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

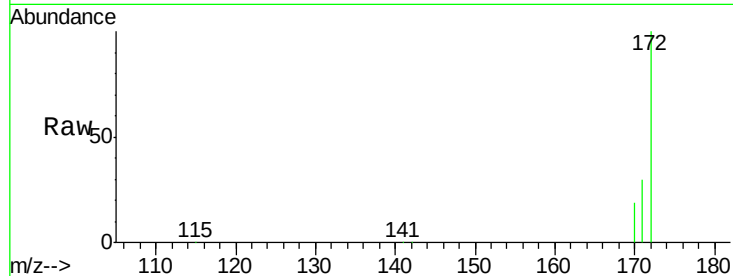
Tgt Ion:172 Resp: 99796

Ion Ratio Lower Upper

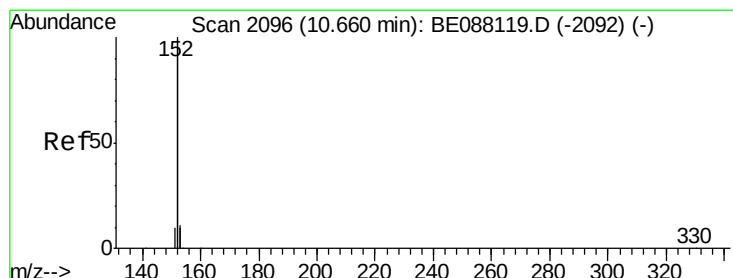
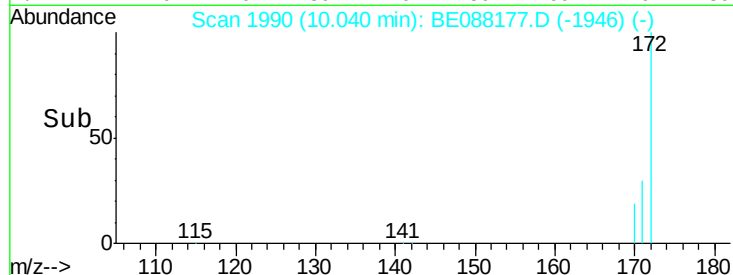
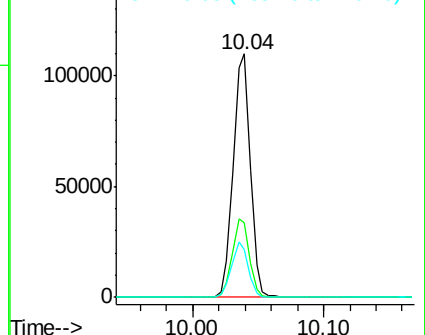
172 100

171 30.4 25.4 38.2

170 19.5 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: BE088177.D

Acq: 22 Oct 2014 11:57

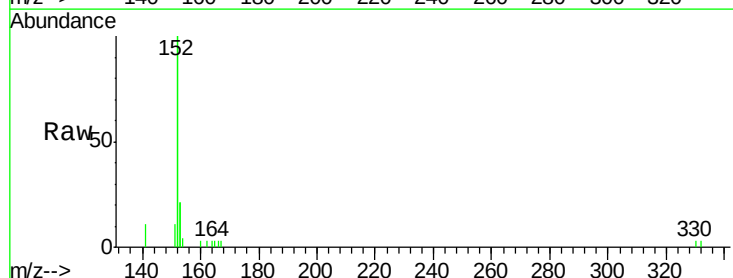
Tgt Ion:152 Resp: 3392

Ion Ratio Lower Upper

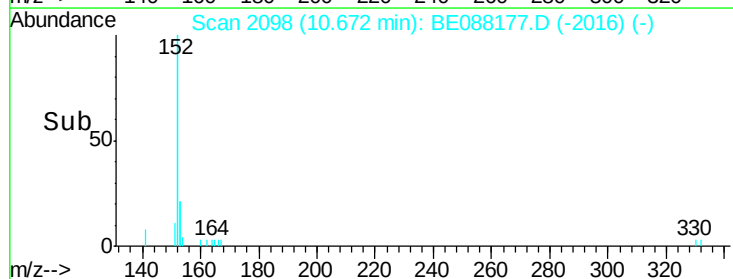
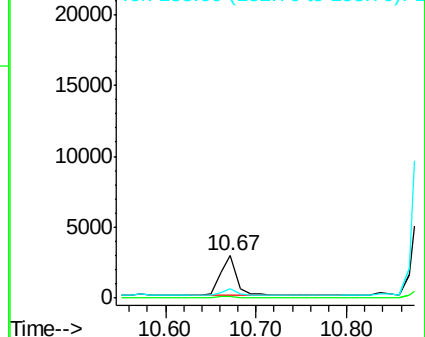
152 100

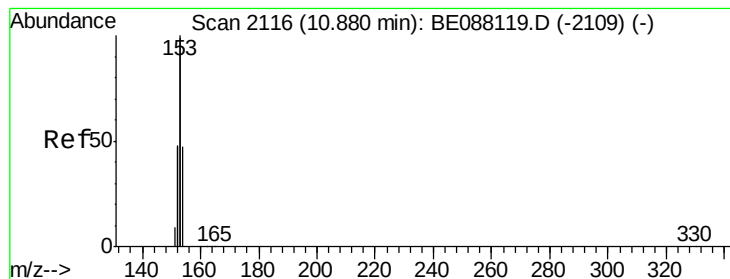
151 4.8 3.7 5.5

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: 0.32 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

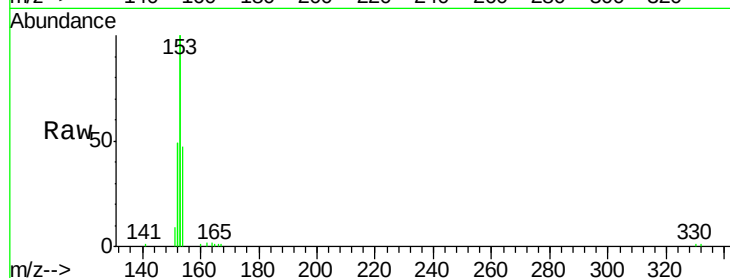
Tgt Ion:154 Resp: 3799

Ion Ratio Lower Upper

154 100

153 398.5 327.8 491.6

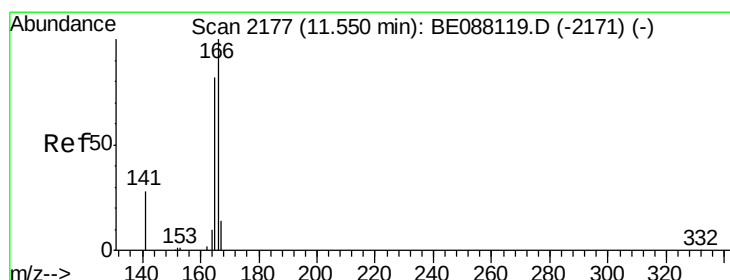
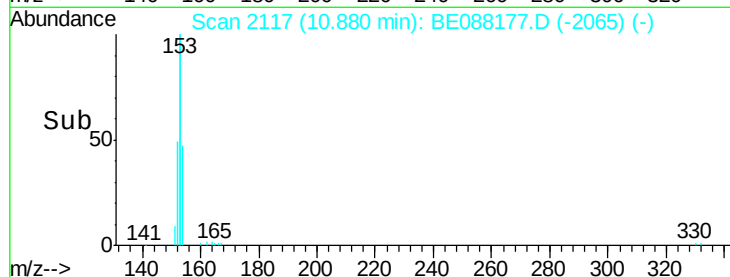
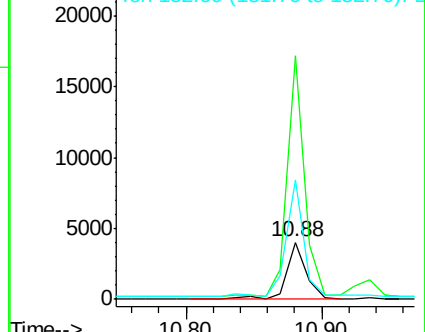
152 197.9 157.6 236.4



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: 0.35 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

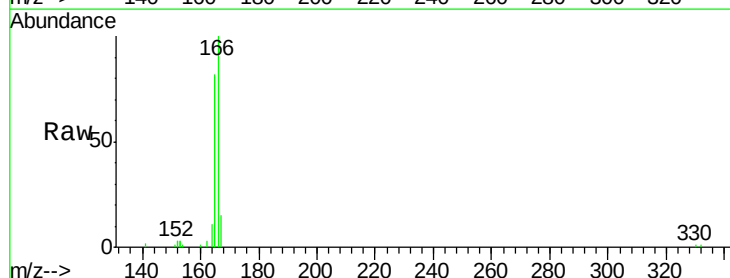
Tgt Ion:166 Resp: 4294

Ion Ratio Lower Upper

166 100

165 90.4 71.4 107.2

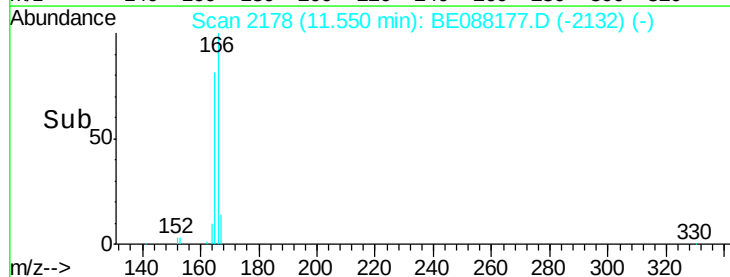
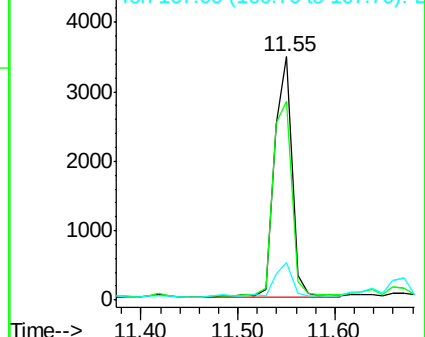
167 14.3 10.6 16.0

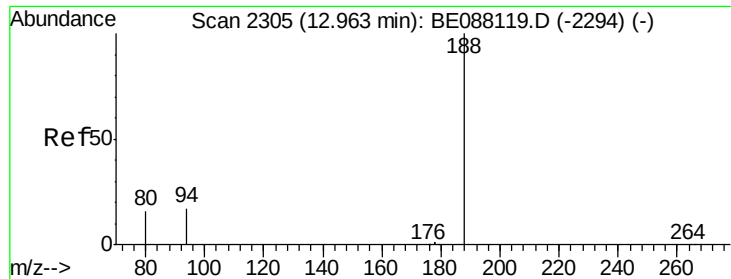


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

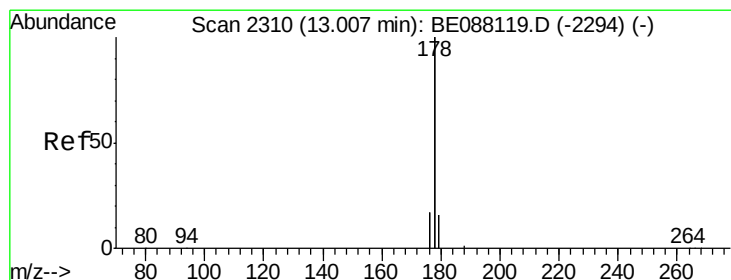
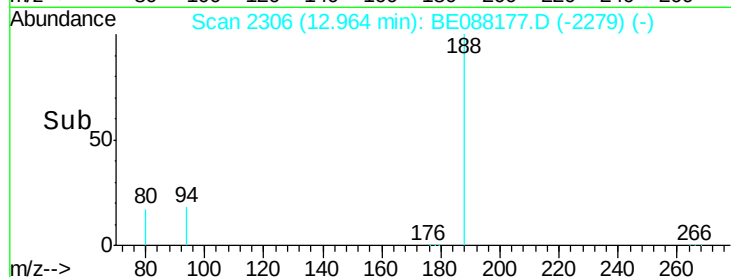
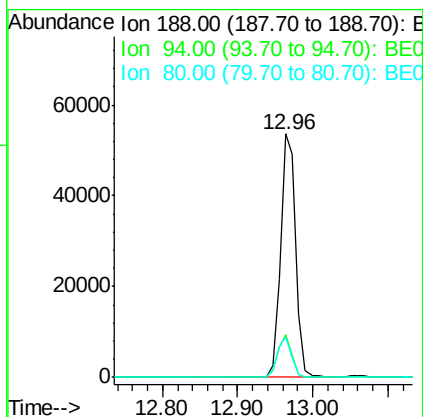
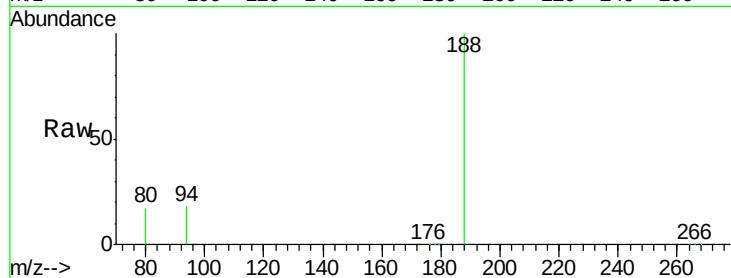




#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2306
Delta R.T. 0.00 min
Lab File: BE088177.D
Acq: 22 Oct 2014 11:57

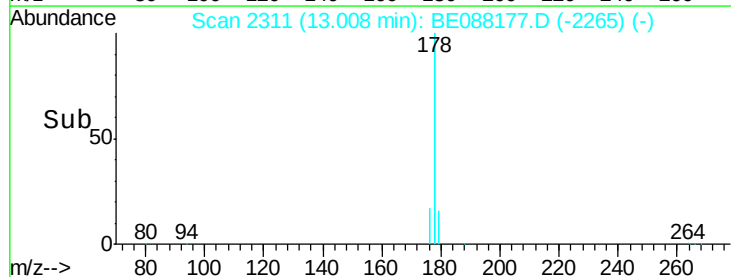
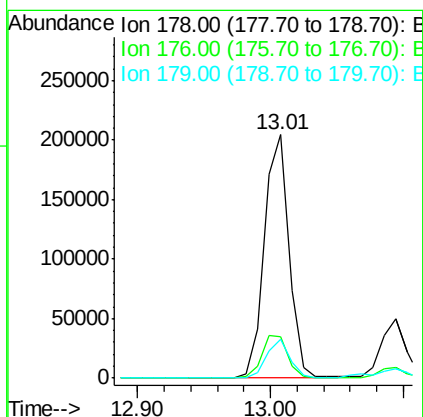
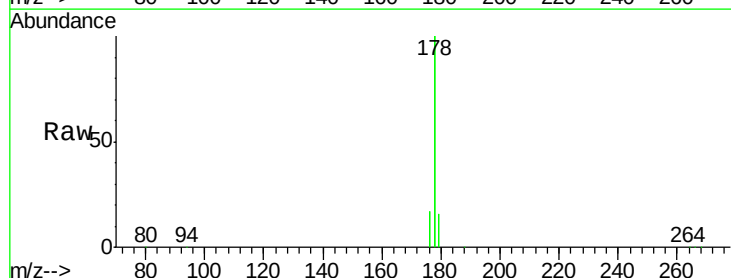
Instrument :
BNA_E
ClientSampleId :
YS19-SB03-1014DL

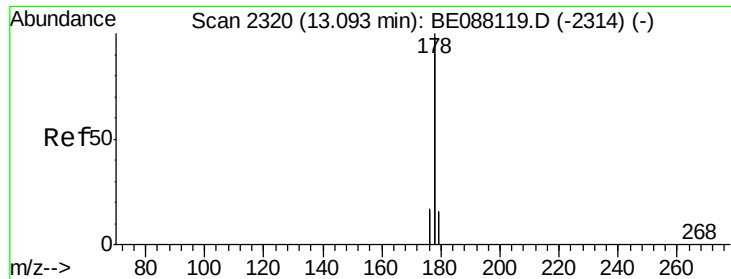
Tgt Ion:188 Resp: 90655
Ion Ratio Lower Upper
188 100
94 17.5 13.9 20.9
80 16.6 12.9 19.3



#13
Phenanthrene
Concen: 3.87 ng
RT: 13.01 min Scan# 2311
Delta R.T. 0.00 min
Lab File: BE088177.D
Acq: 22 Oct 2014 11:57

Tgt Ion:178 Resp: 262011
Ion Ratio Lower Upper
178 100
176 18.5 12.5 18.7
179 15.3 13.5 20.3





#14

Anthracene

Concen: 3.70 ng

RT: 13.01 min Scan# 2311

Delta R.T. -0.09 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

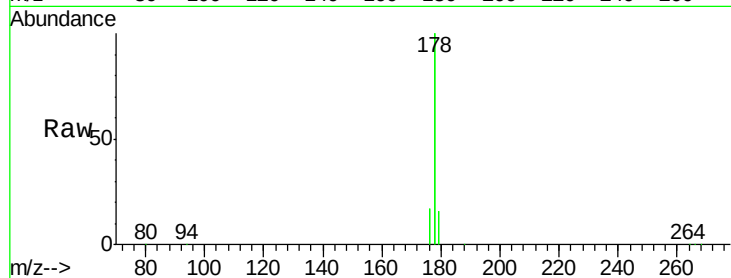
Tgt Ion:178 Resp: 262011

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

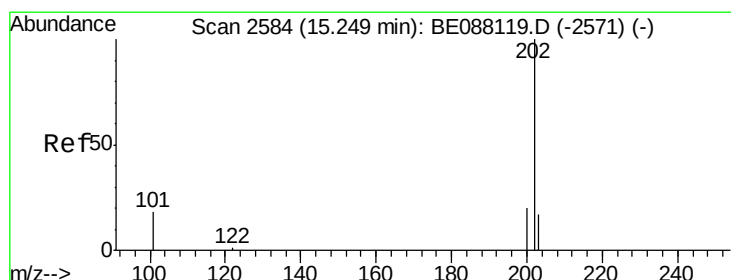
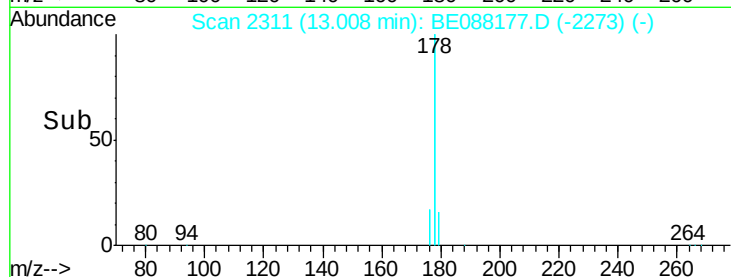
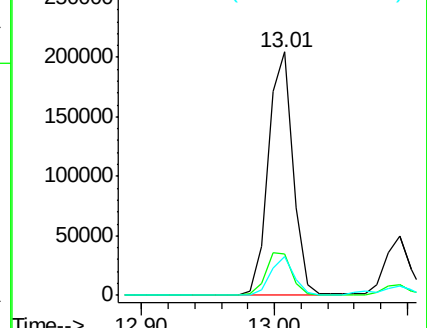
179 15.3 12.5 18.7



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: 4.83 ng

RT: 15.25 min Scan# 2586

Delta R.T. 0.00 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

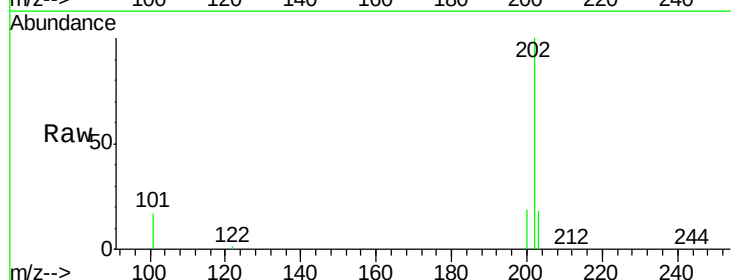
Tgt Ion:202 Resp: 83373

Ion Ratio Lower Upper

202 100

101 18.4 14.8 22.2

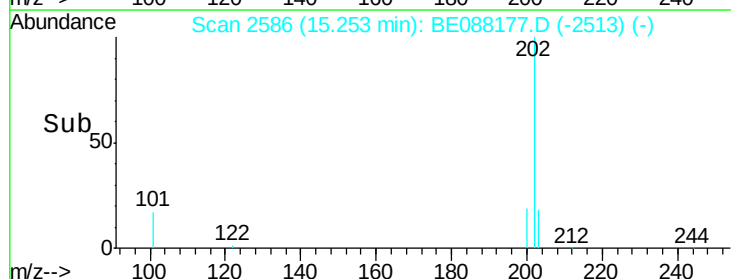
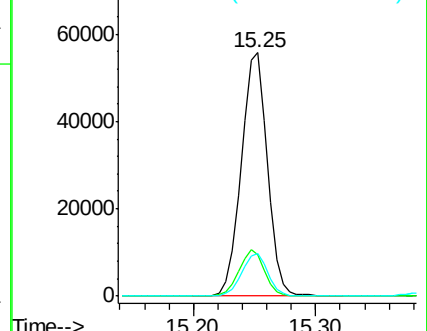
203 17.2 13.5 20.3

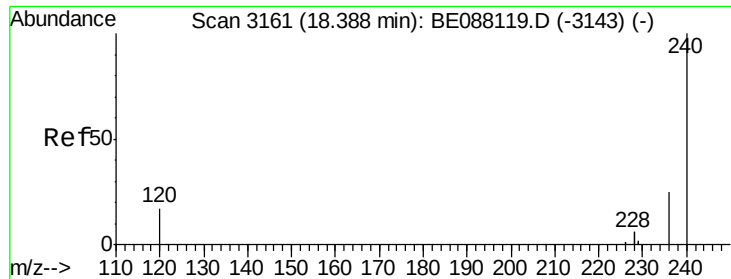


Abundance Ion 202.00 (201.70 to 202.70): E

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: 18.39 min Scan# 3162

Delta R.T. 0.00 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

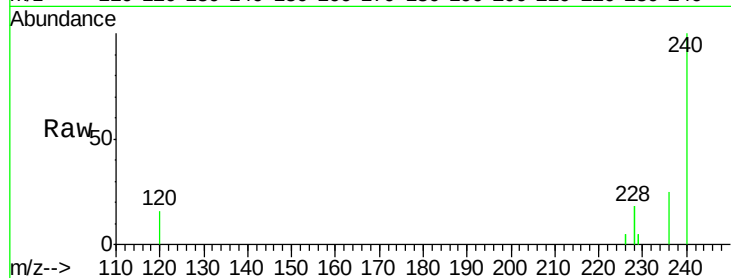
Tgt Ion:240 Resp: 48343

Ion Ratio Lower Upper

240 100

120 15.9 13.9 20.9

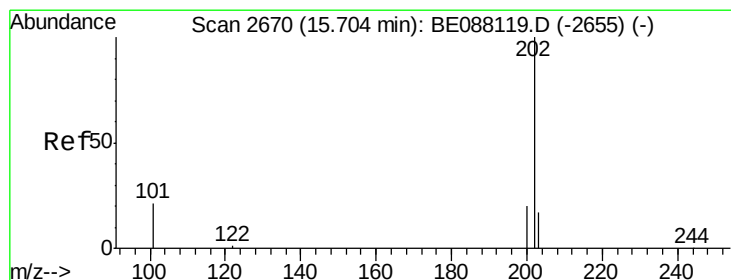
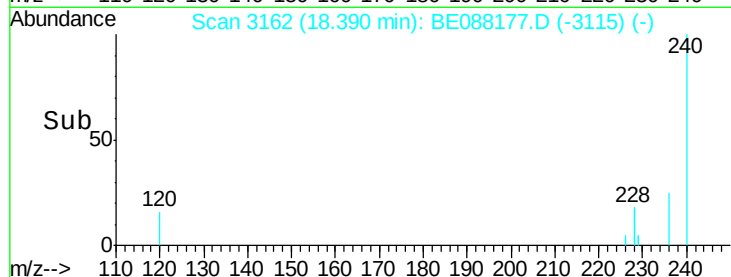
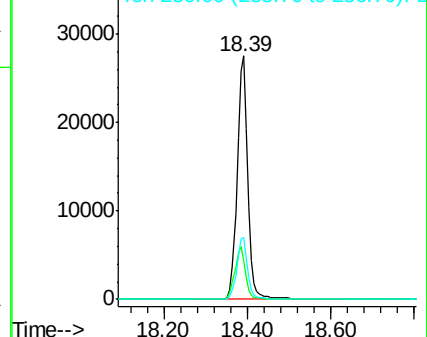
236 25.1 19.9 29.9



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: 6.29 ng

RT: 15.25 min Scan# 2586

Delta R.T. -0.45 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

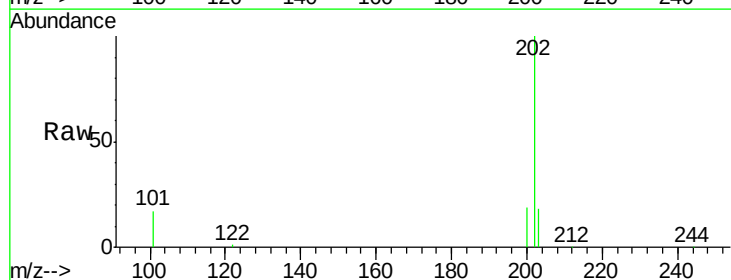
Tgt Ion:202 Resp: 82703

Ion Ratio Lower Upper

202 100

200 20.0 16.1 24.1

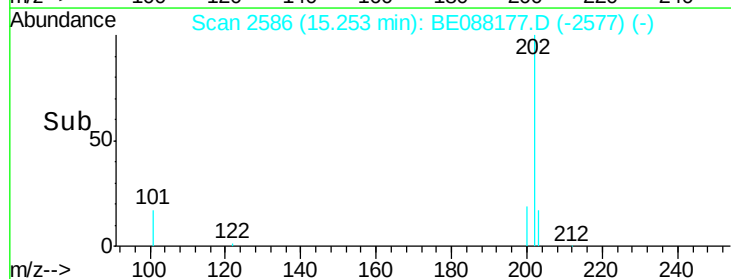
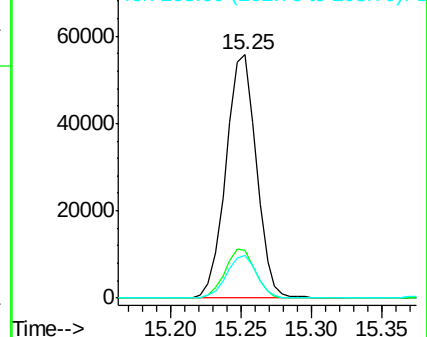
203 17.2 13.9 20.9

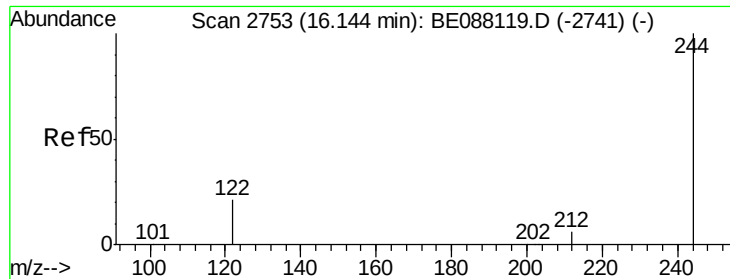


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Terphenyl-d14

Concen: 8.97 ng

RT: 16.15 min Scan# 2755

Delta R.T. 0.00 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

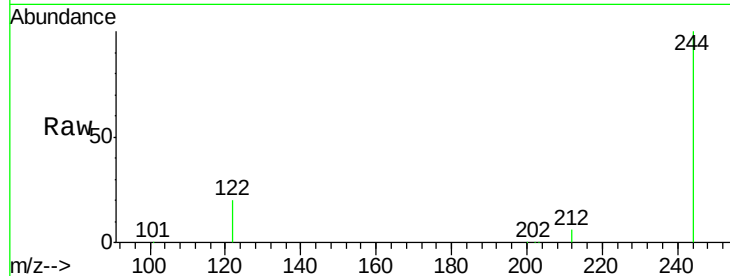
Tgt Ion:244 Resp: 69815

Ion Ratio Lower Upper

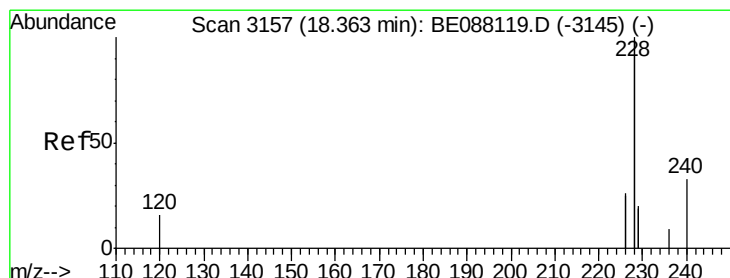
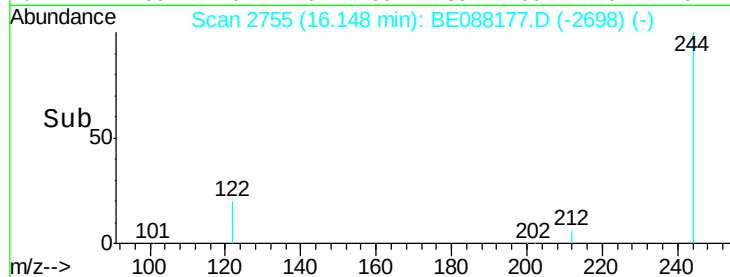
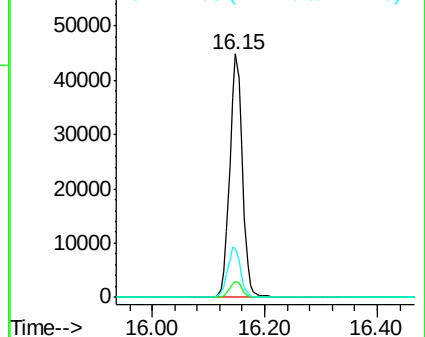
244 100

212 6.4 5.4 8.0

122 20.1 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: 2.59 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

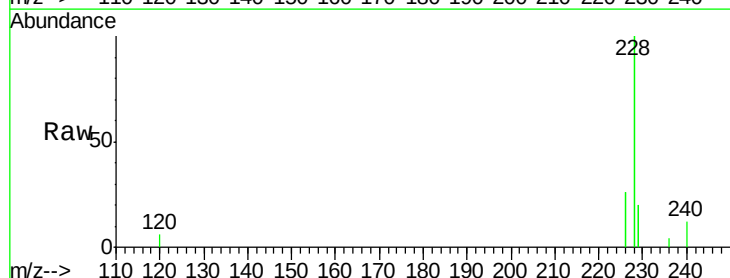
Tgt Ion:228 Resp: 111218

Ion Ratio Lower Upper

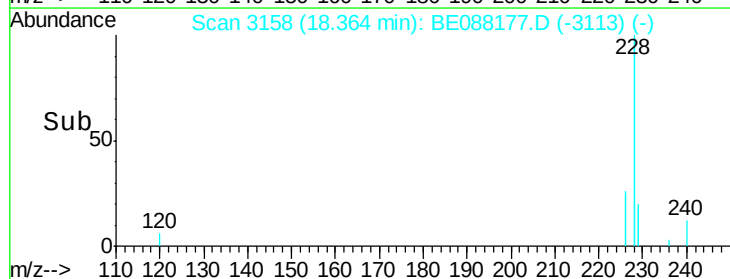
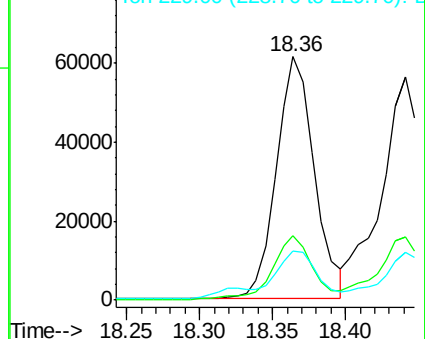
228 100

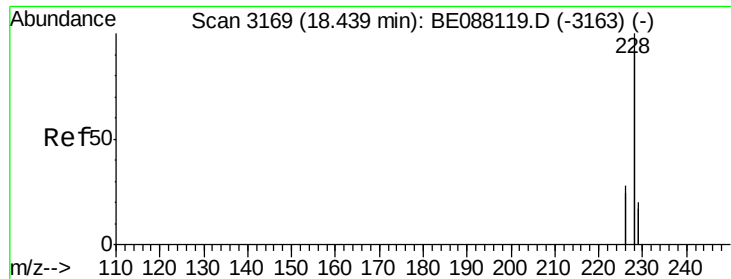
226 26.4 20.8 31.2

229 20.2 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: 2.73 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

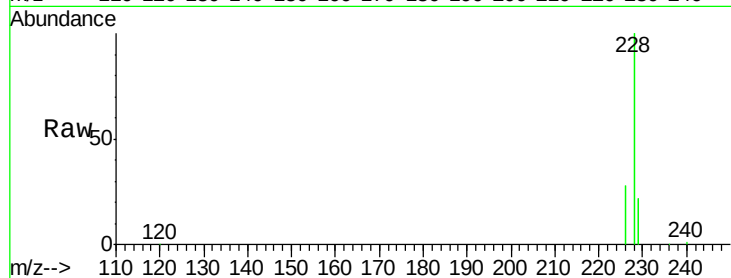
Tgt Ion:228 Resp: 114959

Ion Ratio Lower Upper

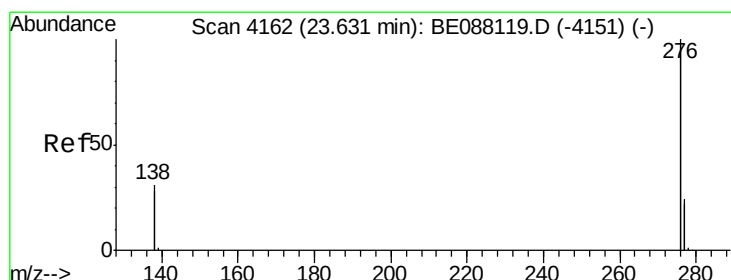
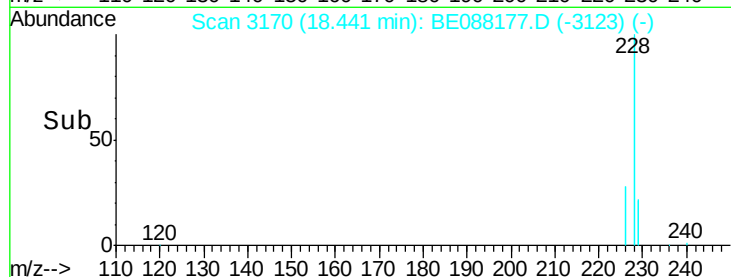
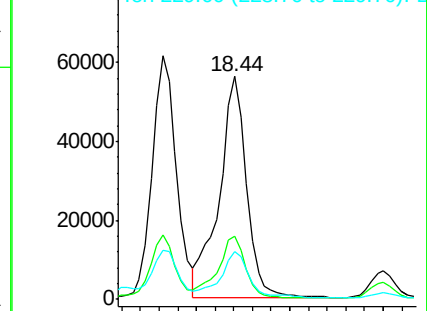
228 100

226 28.5 22.7 34.1

229 21.6 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: 1.48 ng

RT: 23.64 min Scan# 4164

Delta R.T. 0.01 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

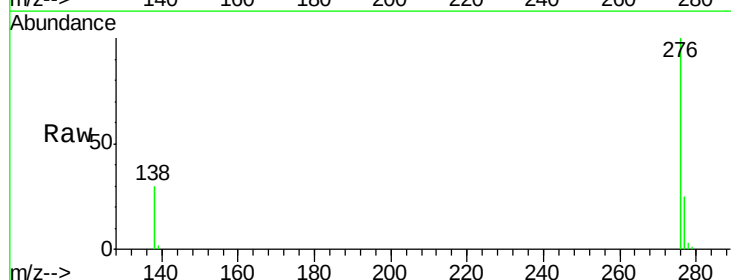
Tgt Ion:276 Resp: 69183

Ion Ratio Lower Upper

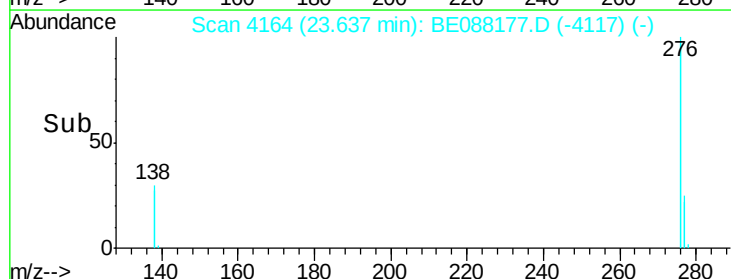
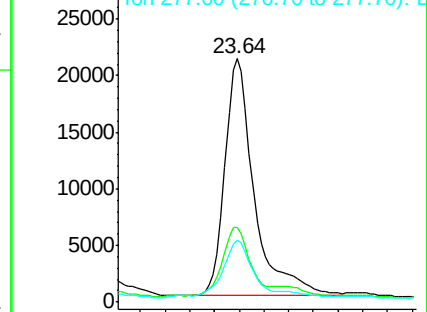
276 100

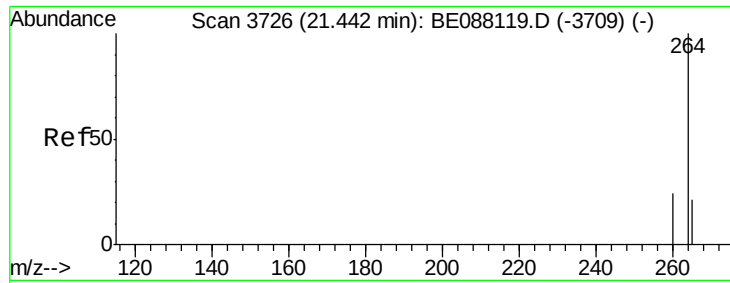
138 27.0 18.5 27.7

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

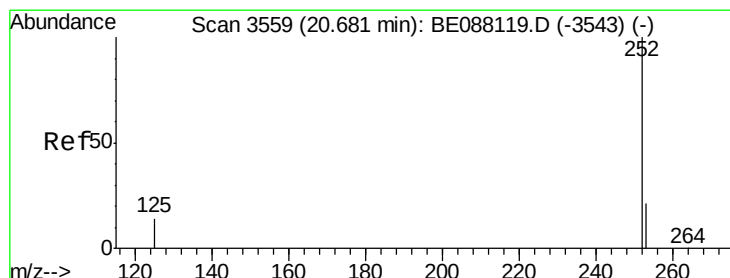
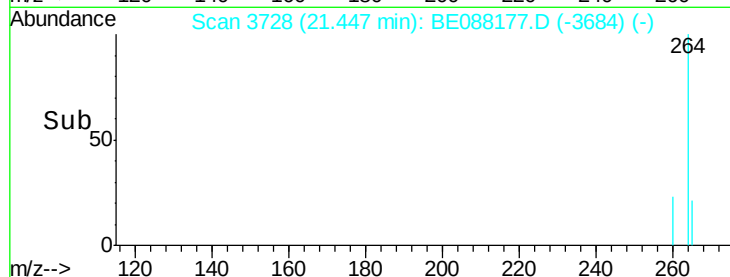
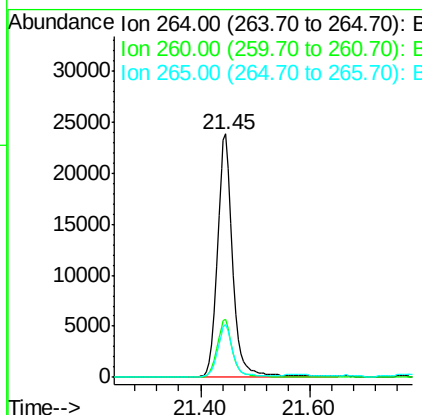
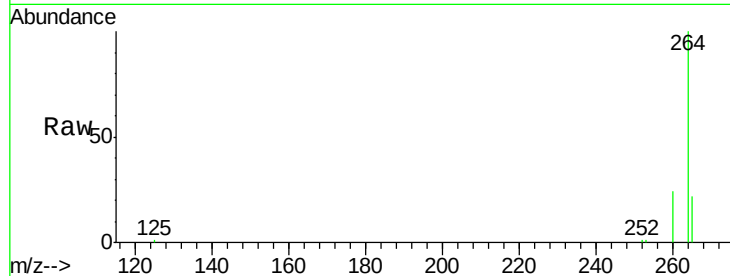




#22
Perylene-d12
 Concen: 5.00 ng
 RT: 21.45 min Scan# 3728
 Delta R.T. 0.00 min
 Lab File: BE088177.D
 Acq: 22 Oct 2014 11:57

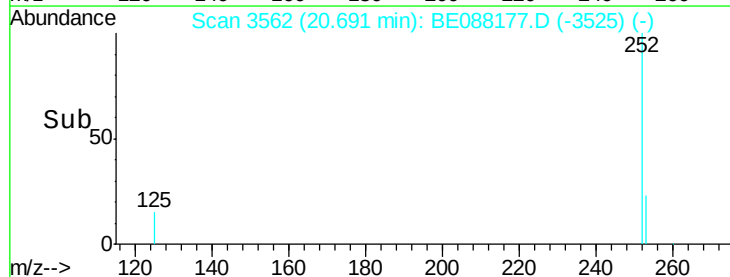
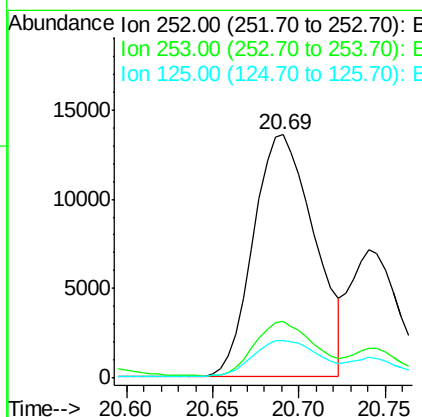
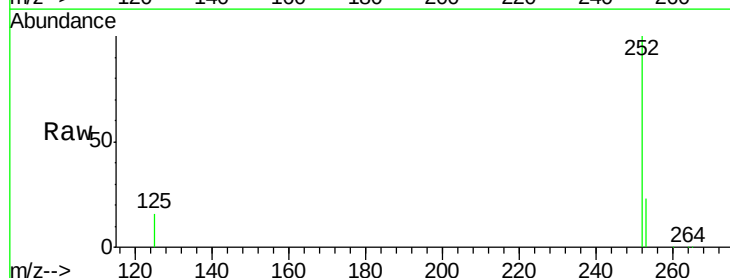
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SB03-1014DL

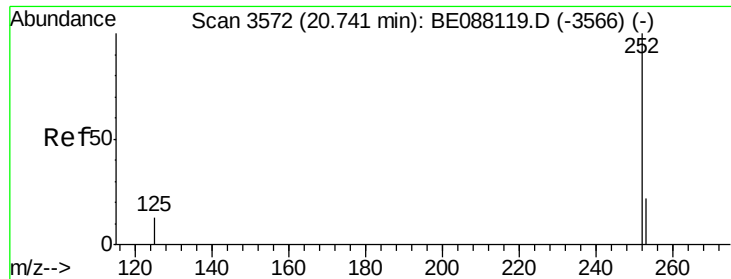
Tgt Ion: 264 Resp: 47257
 Ion Ratio Lower Upper
 264 100
 260 23.6 19.0 28.4
 265 21.7 17.2 25.8



#23
Benzo(b)fluoranthene
 Concen: 2.95 ng
 RT: 20.69 min Scan# 3562
 Delta R.T. 0.01 min
 Lab File: BE088177.D
 Acq: 22 Oct 2014 11:57

Tgt Ion: 252 Resp: 33224
 Ion Ratio Lower Upper
 252 100
 253 23.1 17.4 26.0
 125 15.5 11.8 17.8





#24

Benzo(k)fluoranthene

Concen: 1.12 ng

RT: 20.74 min Scan# 3573

Delta R.T. 0.00 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

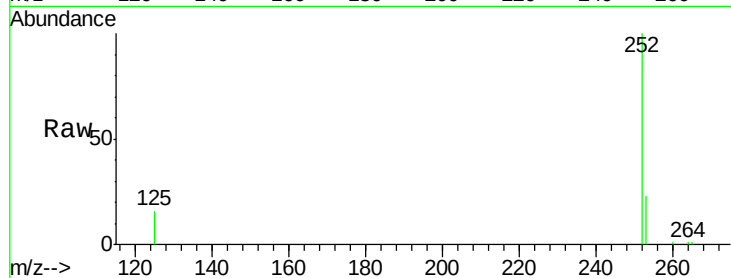
Tgt Ion:252 Resp: 13442

Ion Ratio Lower Upper

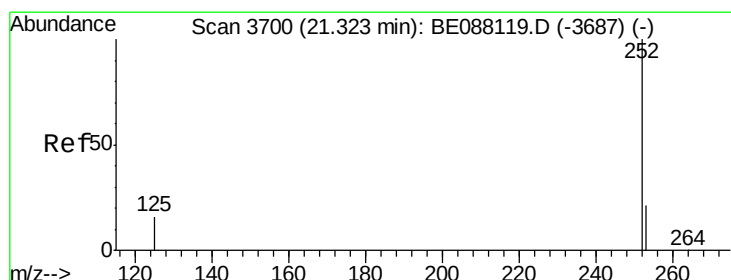
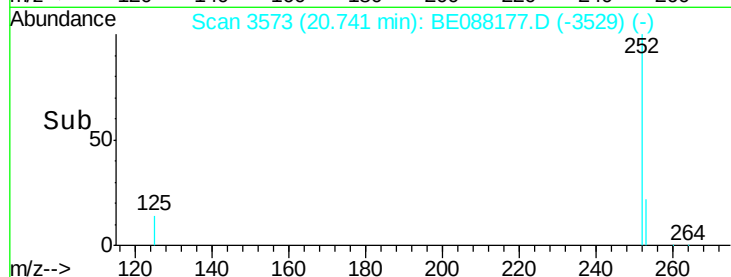
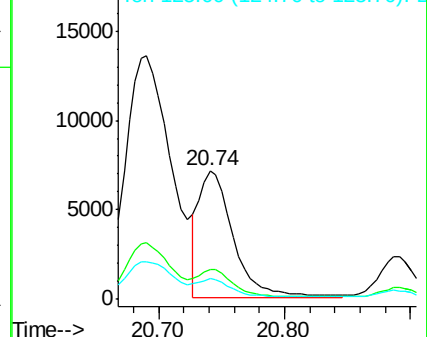
252 100

253 23.3 17.6 26.4

125 15.7 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: 2.30 ng

RT: 21.33 min Scan# 3702

Delta R.T. 0.00 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

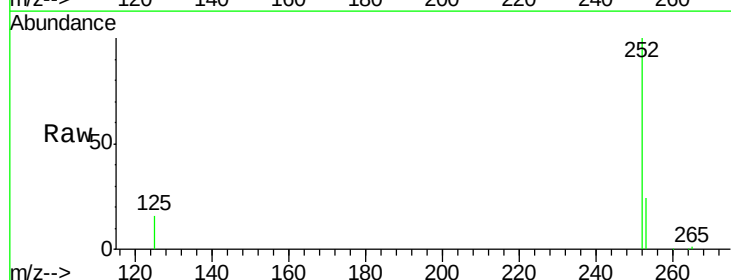
Tgt Ion:252 Resp: 23838

Ion Ratio Lower Upper

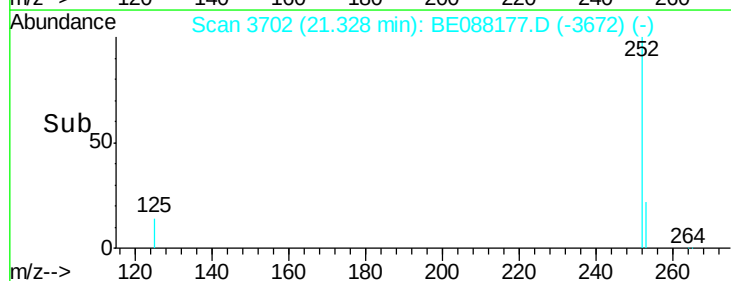
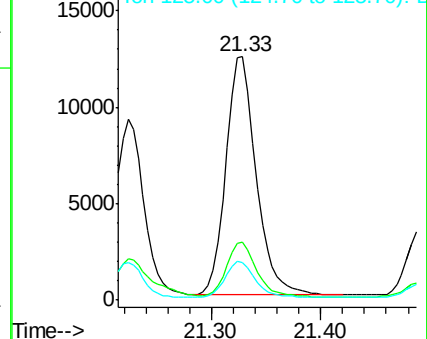
252 100

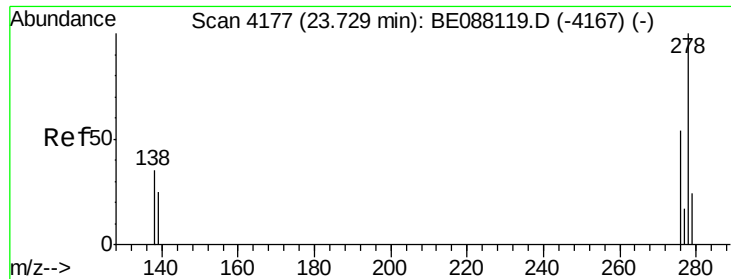
253 23.6 17.5 26.3

125 15.6 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: 0.33 ng

RT: 23.73 min Scan# 4178

Delta R.T. -0.00 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

Instrument :

BNA_E

ClientSampleId :

YS19-SB03-1014DL

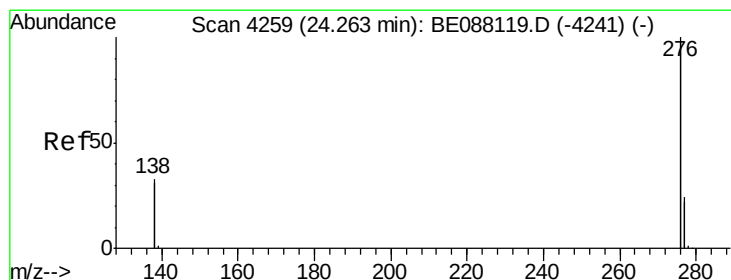
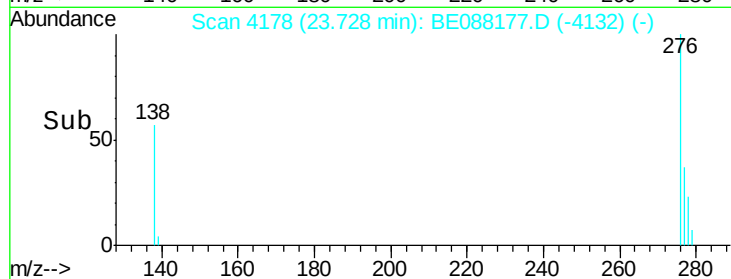
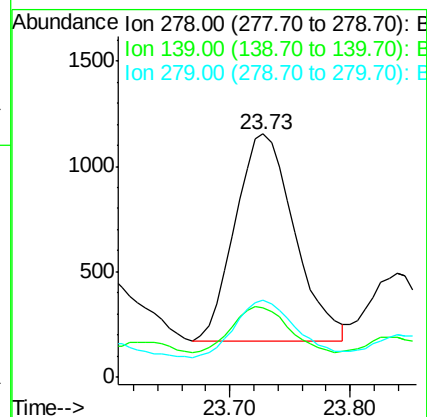
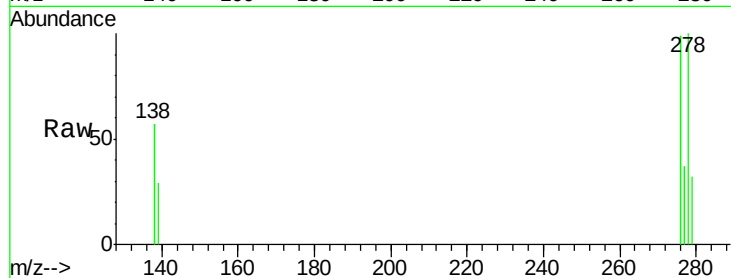
Tgt Ion: 278 Resp: 3368

Ion Ratio Lower Upper

278 100

139 28.8 20.9 31.3

279 31.8 19.8 29.8#



#27

Benzo(g,h,i)perylene

Concen: 1.55 ng

RT: 24.27 min Scan# 4261

Delta R.T. 0.01 min

Lab File: BE088177.D

Acq: 22 Oct 2014 11:57

Tgt Ion: 276 Resp: 69830

Ion Ratio Lower Upper

276 100

277 24.6 19.2 28.8

138 32.9 26.6 40.0

