

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
 Data File : BE088163.D
 Acq On : 22 Oct 2014 4:05
 Operator : TP/JJ
 Sample : F4303-01DL 10X
 Misc :
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS01-1014

Quant Time: Oct 22 05:07:53 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

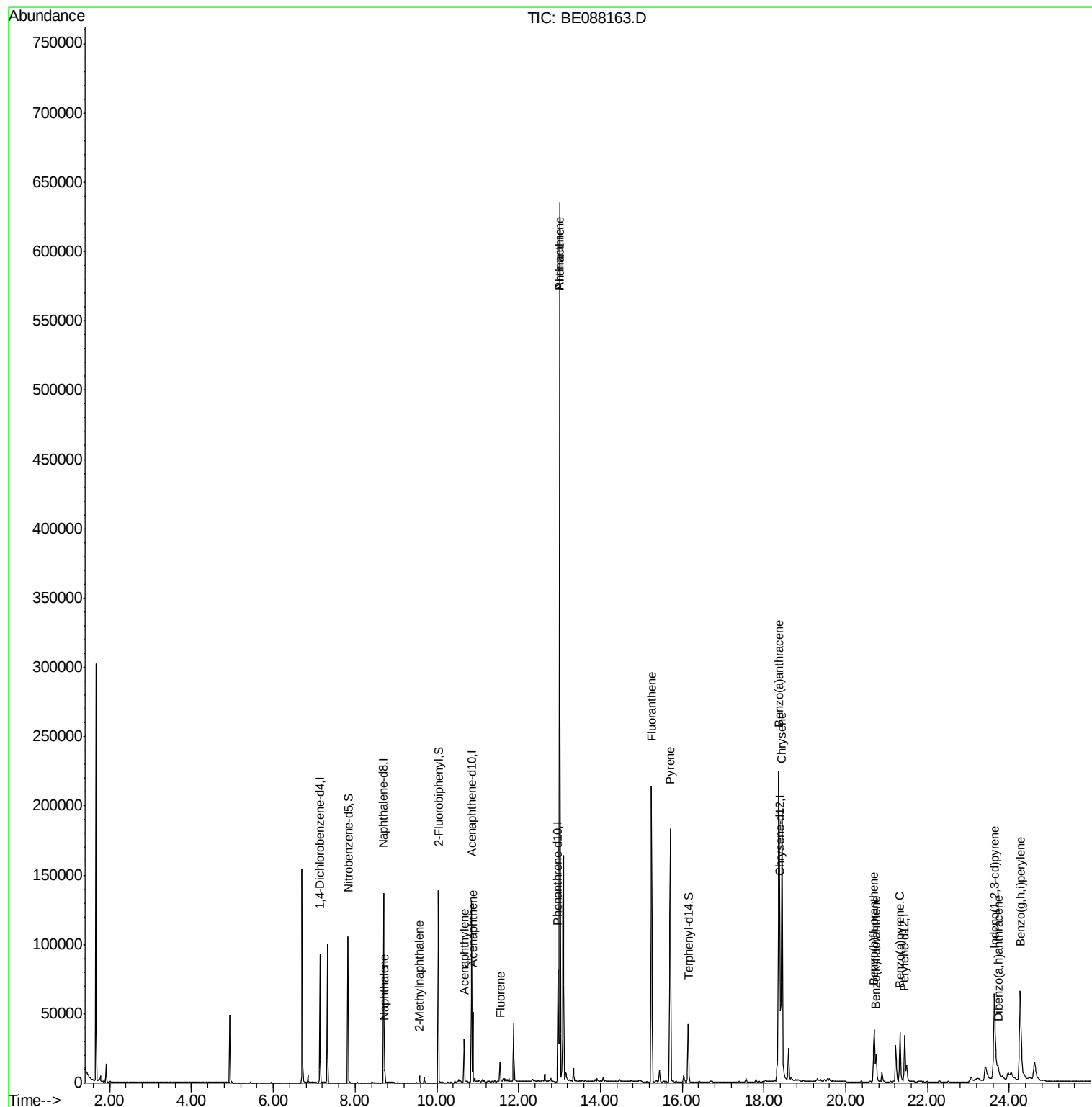
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	25695	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	100982	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	52659	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	81678	5.00	ng	0.00
16) Chrysene-d12	18.39	240	53671	5.00	ng	0.00
22) Perylene-d12	21.44	264	47229	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	44502	6.11	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	76654	5.27	ng	0.00
18) Terphenyl-d14	16.15	244	53867	6.24	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	8515	0.41	ng	99
6) 2-Methylnaphthalene	9.58	142	2020	0.16	ng	99
9) Acenaphthylene	10.67	152	33540	0.42	ng	99
10) Acenaphthene	10.88	154	6250	0.50	ng	95
11) Fluorene	11.55	166	9381	0.71	ng	97
13) Phenanthrene	13.01	178	625927	10.65	ng	# 94
14) Anthracene	13.01	178	625927	9.82	ng	99
15) Fluoranthene	15.25	202	206615	13.29	ng	99
17) Pyrene	15.71	202	176409	12.09	ng	97
19) Benzo(a)anthracene	18.36	228	276388	5.79	ng	99
20) Chrysene	18.44	228	268479	5.73	ng	98
21) Indeno(1,2,3-cd)pyrene	23.64	276	138909	2.67	ng	# 84
23) Benzo(b)fluoranthene	20.69	252	67458	6.00	ng	98
24) Benzo(k)fluoranthene	20.74	252	28552	2.37	ng	98
25) Benzo(a)pyrene	21.33	252	52903	5.11	ng	97
26) Dibenzo(a,h)anthracene	23.73	278	5825	0.57	ng	# 95
27) Benzo(g,h,i)perylene	24.27	276	140747	3.14	ng	99

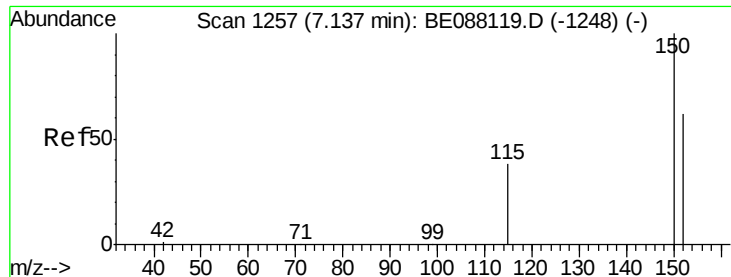
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: BE088163.D

Acq: 22 Oct 2014 4:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS01-1014

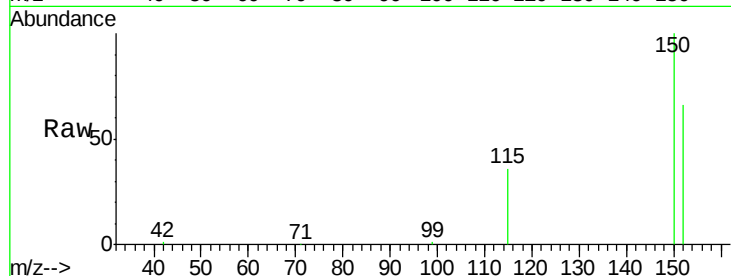
Tgt Ion:152 Resp: 25695

Ion Ratio Lower Upper

152 100

150 152.6 129.2 193.8

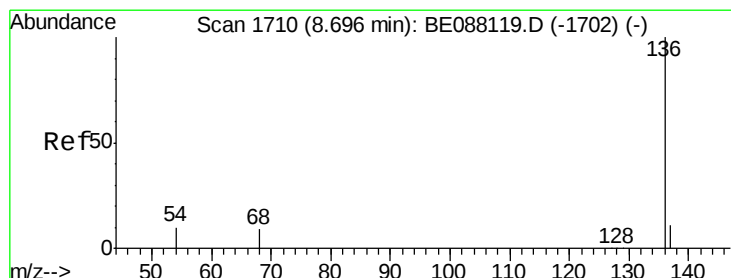
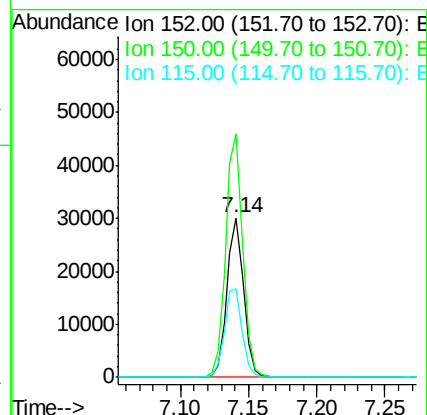
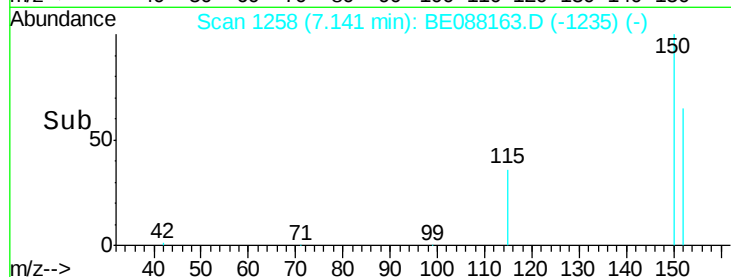
115 55.4 49.3 73.9



Abundance Ion 152.00 (151.70 to 152.70): E

Ion 150.00 (149.70 to 150.70): E

Ion 115.00 (114.70 to 115.70): E



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

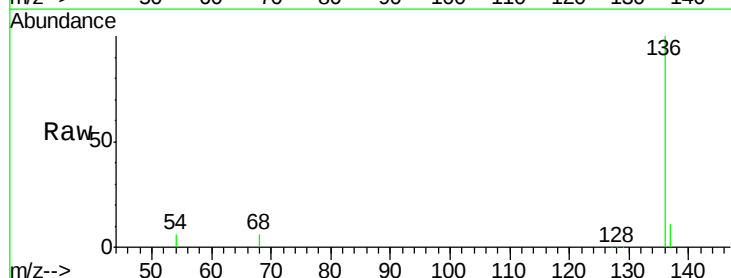
Tgt Ion:136 Resp: 100982

Ion Ratio Lower Upper

136 100

137 11.3 8.6 12.8

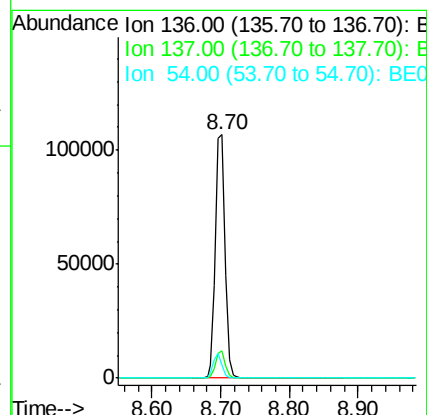
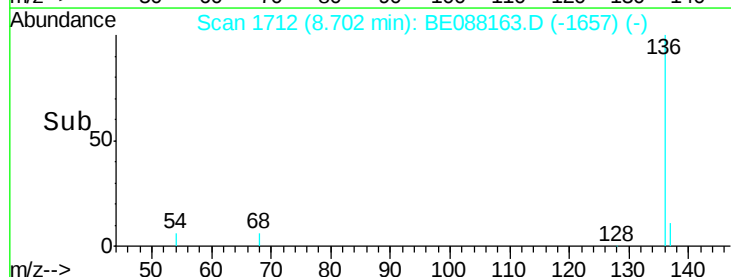
54 5.6 7.7 11.5#

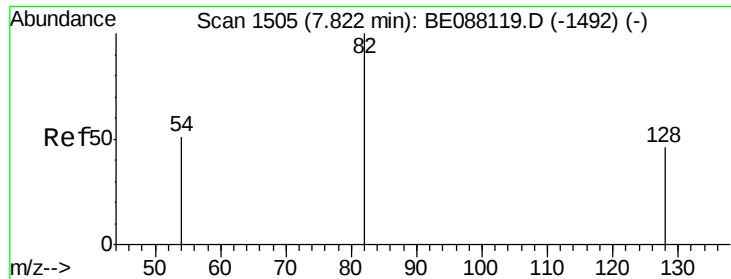


Abundance Ion 136.00 (135.70 to 136.70): E

Ion 137.00 (136.70 to 137.70): E

Ion 54.00 (53.70 to 54.70): BE0





#4

Nitrobenzene-d5

Concen: 6.11 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS01-1014

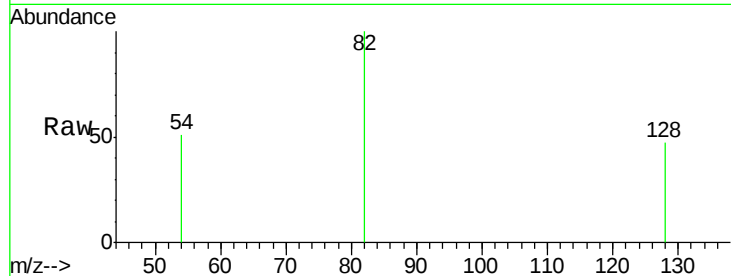
Tgt Ion: 82 Resp: 44502

Ion Ratio Lower Upper

82 100

128 47.4 37.1 55.7

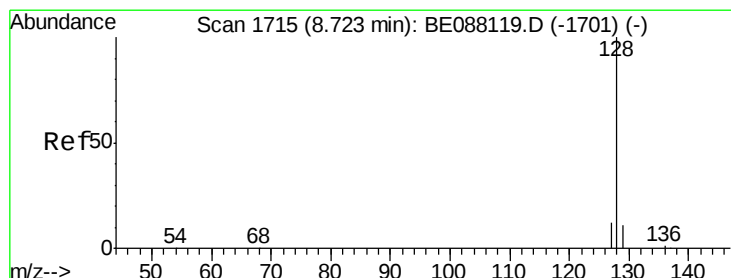
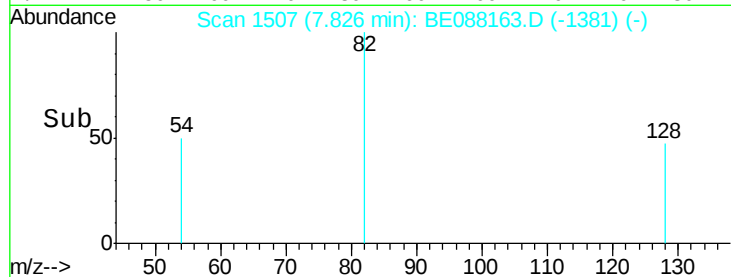
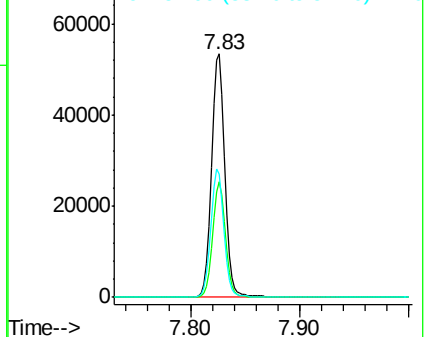
54 50.5 41.1 61.7



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: 0.41 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

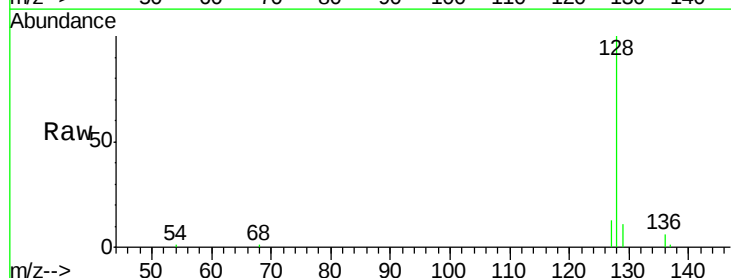
Tgt Ion: 128 Resp: 8515

Ion Ratio Lower Upper

128 100

129 11.1 8.9 13.3

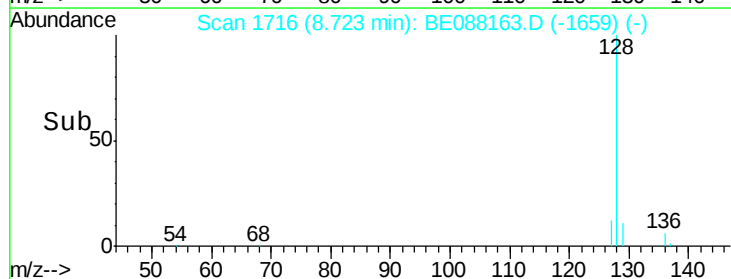
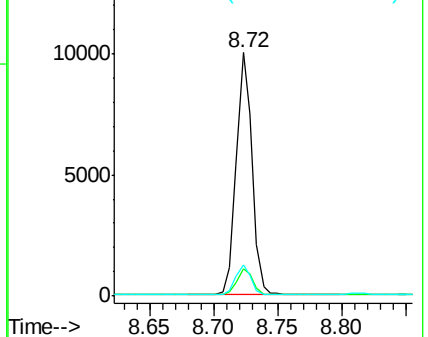
127 12.8 9.7 14.5

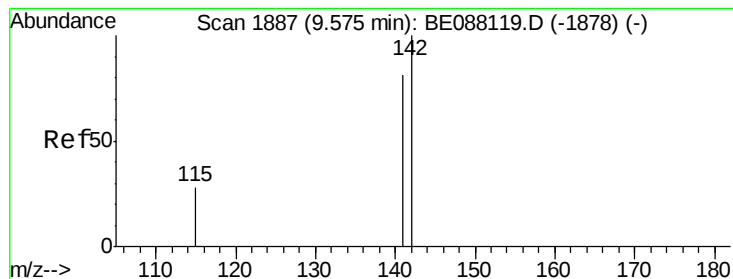


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#6

2-Methylnaphthalene

Concen: 0.16 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS01-1014

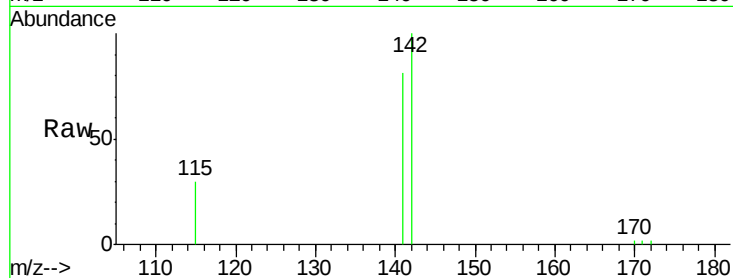
Tgt Ion:142 Resp: 2020

Ion Ratio Lower Upper

142 100

141 80.6 64.6 97.0

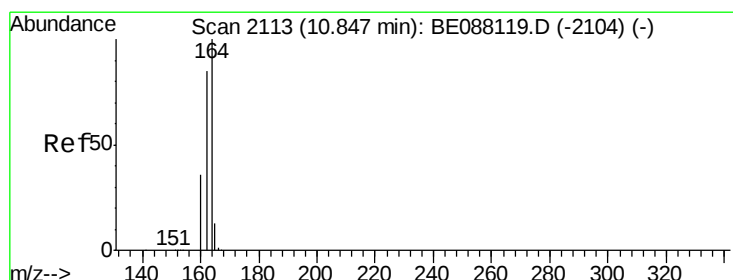
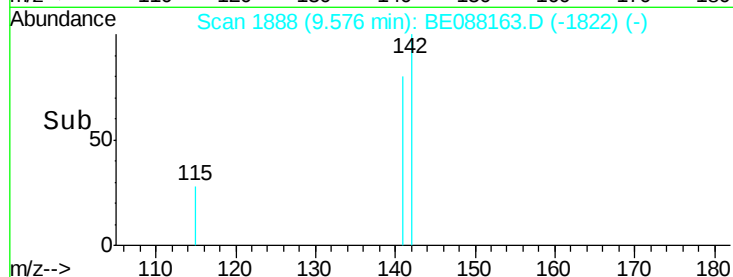
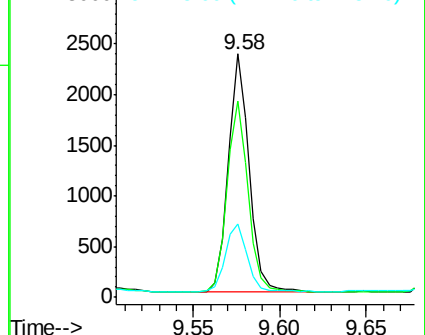
115 30.3 22.6 34.0



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: BE088163.D

Acq: 22 Oct 2014 4:05

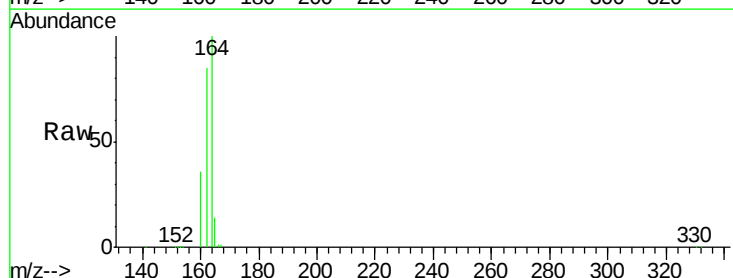
Tgt Ion:164 Resp: 52659

Ion Ratio Lower Upper

164 100

162 85.2 68.3 102.5

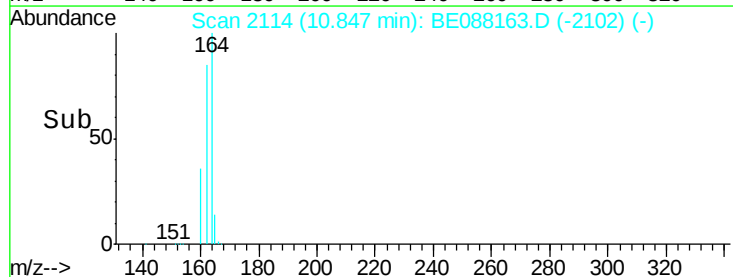
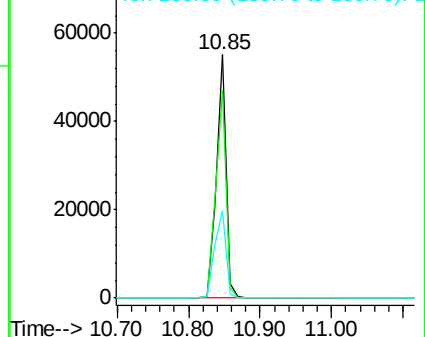
160 35.9 28.7 43.1



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

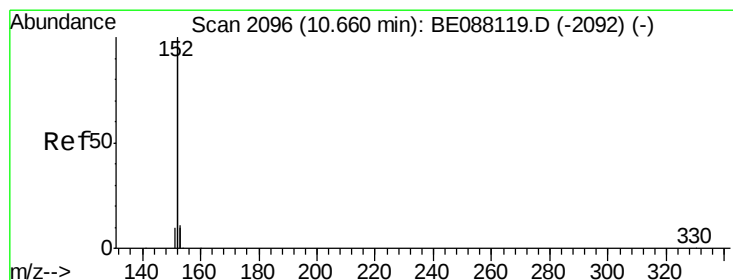
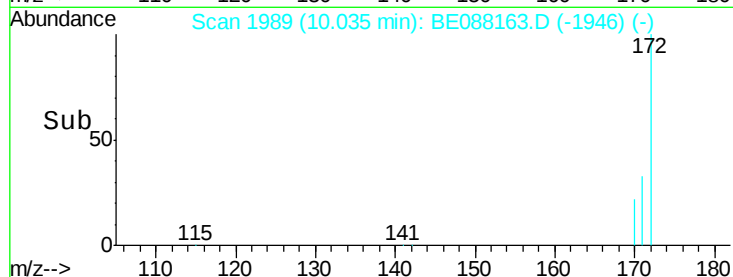
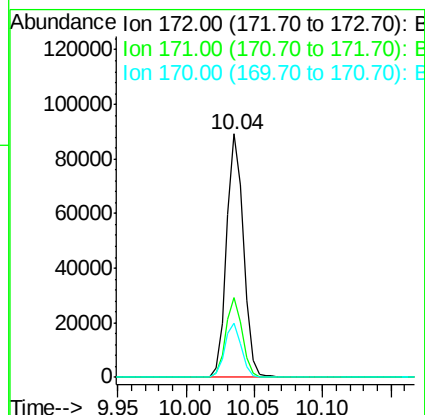
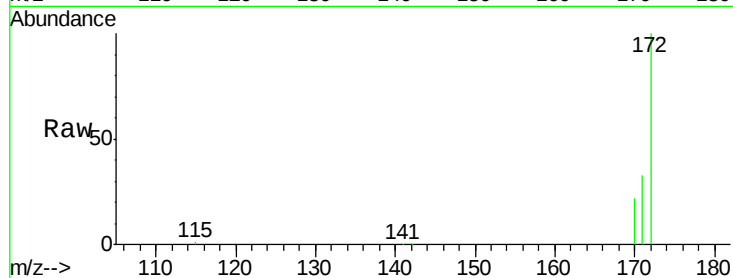




#8
2-Fluorobiphenyl
Concen: 5.27 ng
RT: 10.04 min Scan# 1989
Delta R.T. 0.00 min
Lab File: BE088163.D
Acq: 22 Oct 2014 4:05

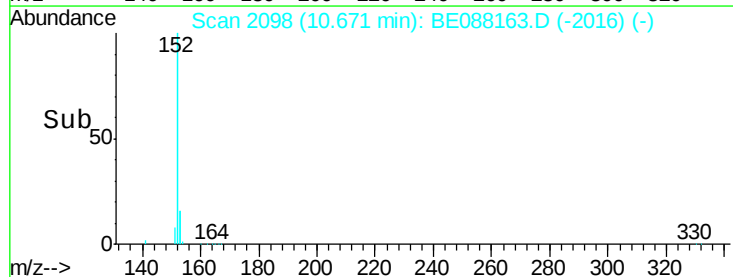
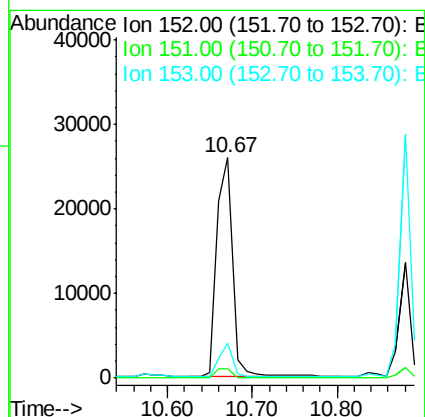
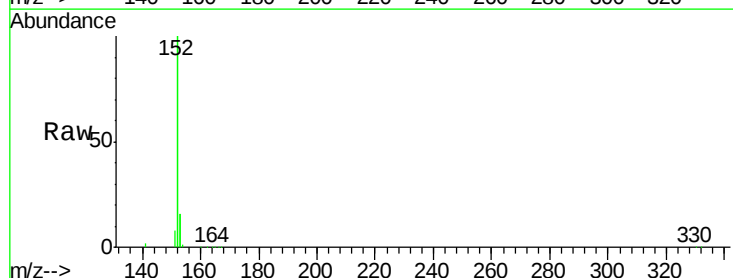
Instrument :
BNA_E
ClientSampleId :
YS19-SS01-1014

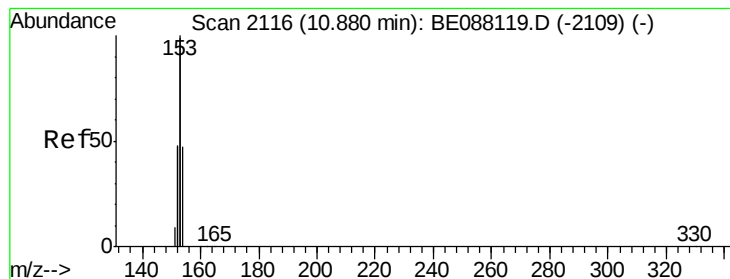
Tgt Ion:172 Resp: 76654
Ion Ratio Lower Upper
172 100
171 32.6 25.4 38.2
170 22.3 17.4 26.2



#9
Acenaphthylene
Concen: 0.42 ng
RT: 10.67 min Scan# 2098
Delta R.T. 0.01 min
Lab File: BE088163.D
Acq: 22 Oct 2014 4:05

Tgt Ion:152 Resp: 33540
Ion Ratio Lower Upper
152 100
151 4.5 3.7 5.5
153 13.2 10.4 15.6





#10

Acenaphthene

Concen: 0.50 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS01-1014

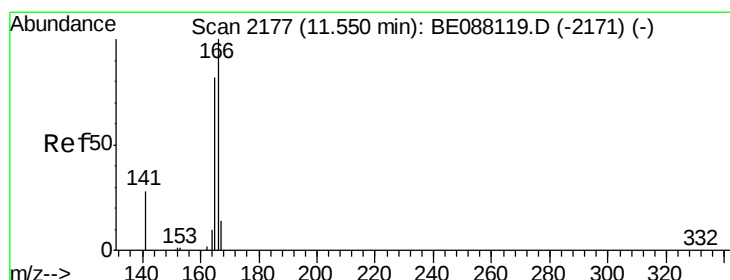
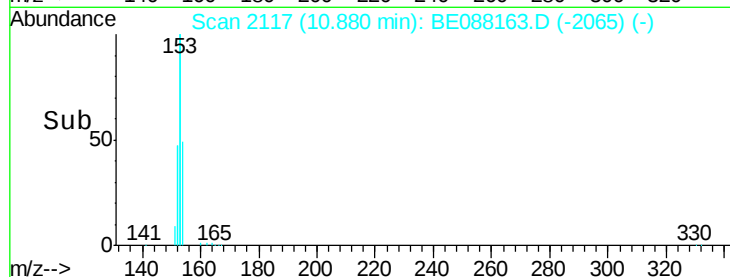
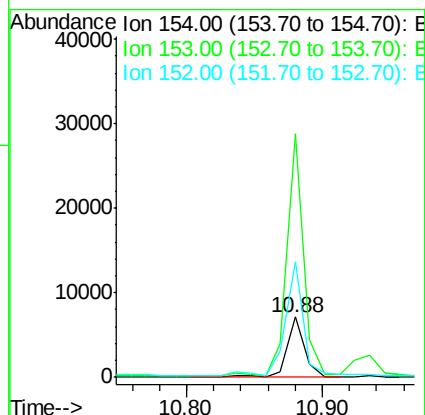
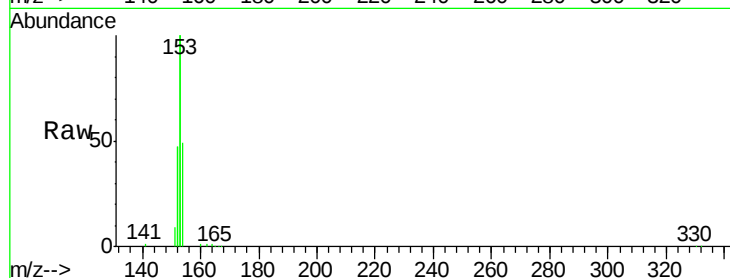
Tgt Ion:154 Resp: 6250

Ion Ratio Lower Upper

154 100

153 395.9 327.8 491.6

152 200.4 157.6 236.4



#11

Fluorene

Concen: 0.71 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

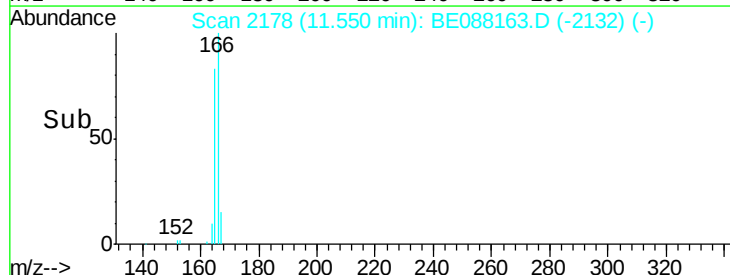
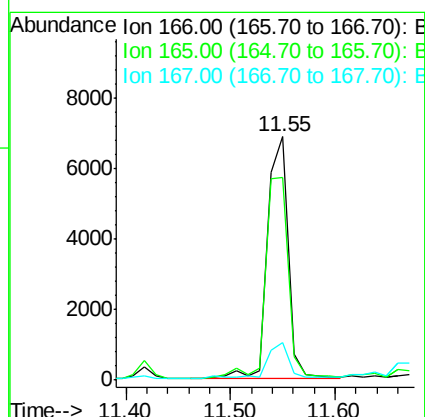
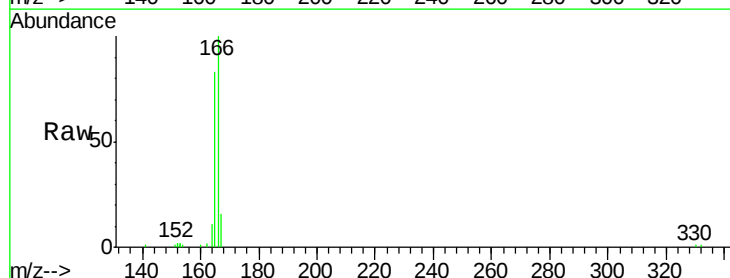
Tgt Ion:166 Resp: 9381

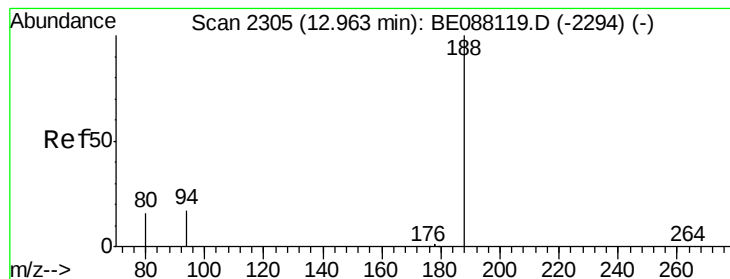
Ion Ratio Lower Upper

166 100

165 91.5 71.4 107.2

167 14.8 10.6 16.0





#12

Phenanthrene-d10

Concen: 5.00 ng

RT: 12.96 min Scan# 2306

Delta R.T. 0.00 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

Instrument :

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YS19-SS01-1014

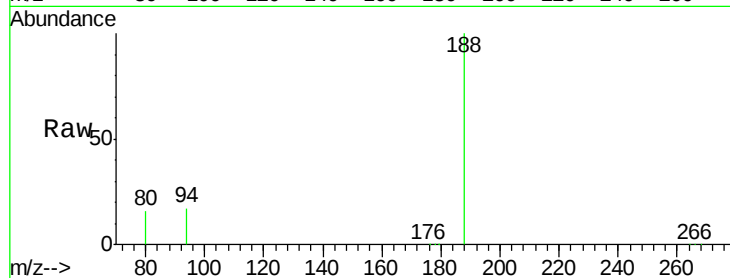
Tgt Ion:188 Resp: 81678

Ion Ratio Lower Upper

188 100

94 16.9 13.9 20.9

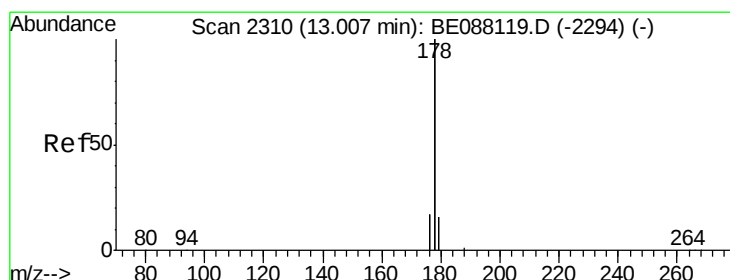
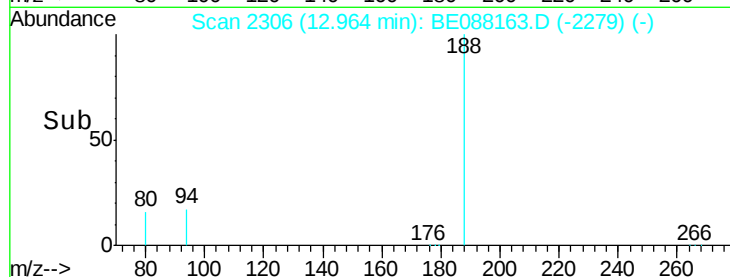
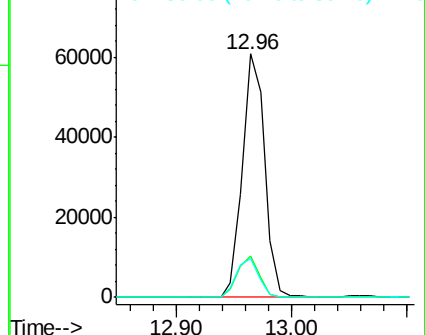
80 16.1 12.9 19.3



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: 10.65 ng

RT: 13.01 min Scan# 2311

Delta R.T. 0.00 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

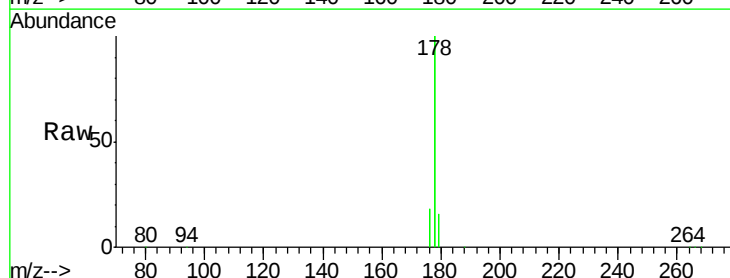
Tgt Ion:178 Resp: 625927

Ion Ratio Lower Upper

178 100

176 18.8 12.5 18.7#

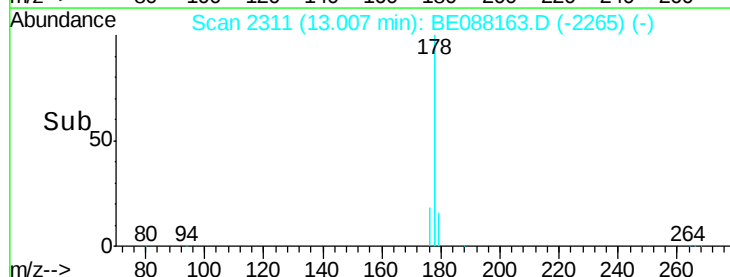
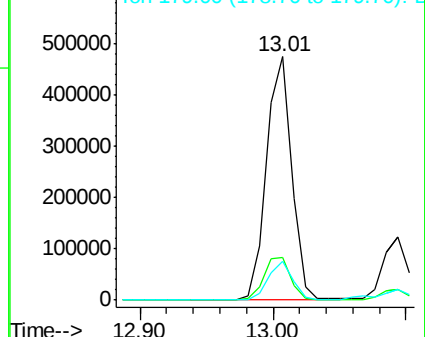
179 15.3 13.5 20.3

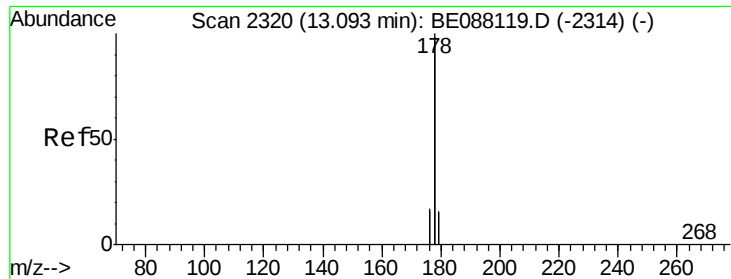


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

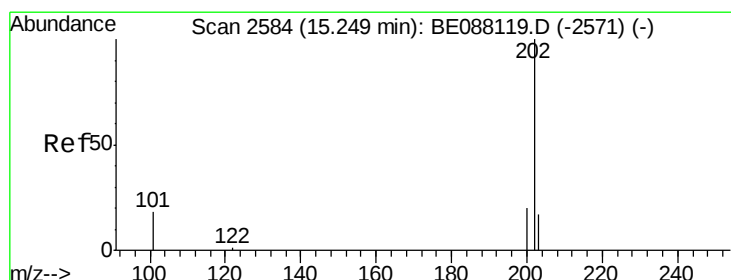
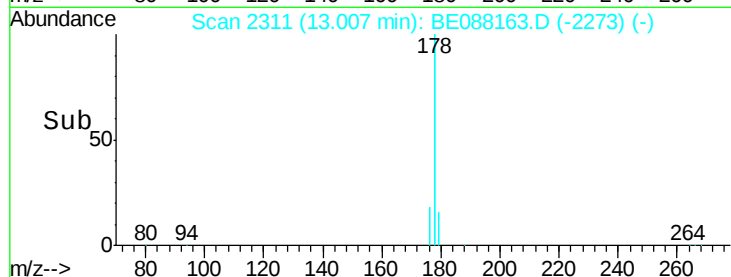
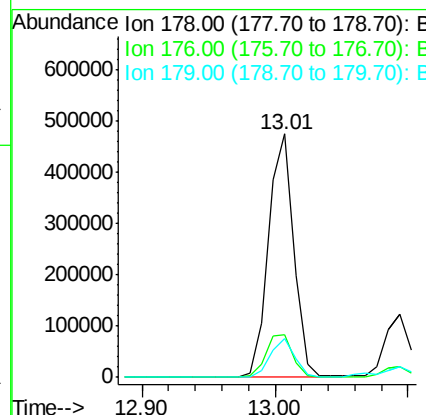
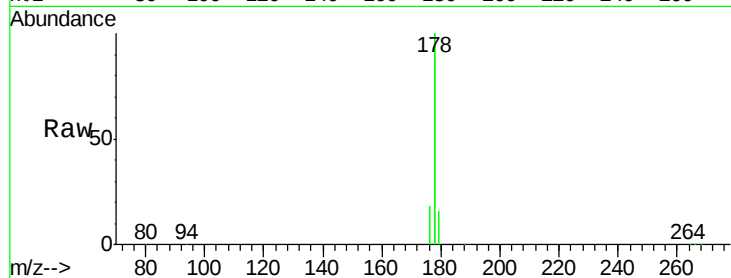




#14
 Anthracene
 Concen: 9.82 ng
 RT: 13.01 min Scan# 2311
 Delta R.T. -0.09 min
 Lab File: BE088163.D
 Acq: 22 Oct 2014 4:05

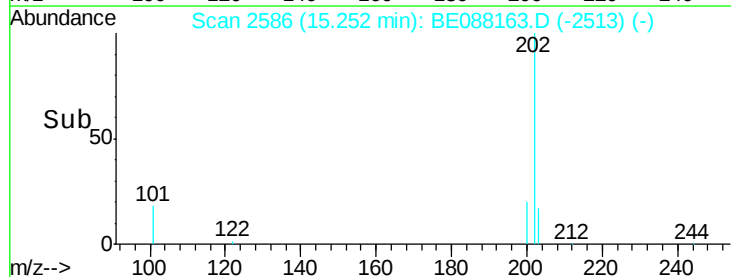
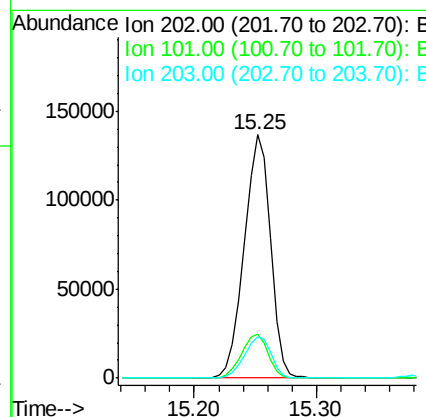
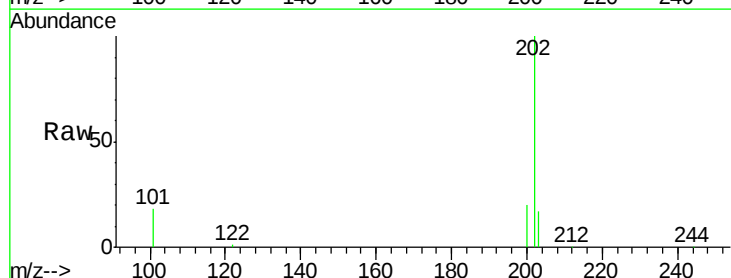
Instrument :
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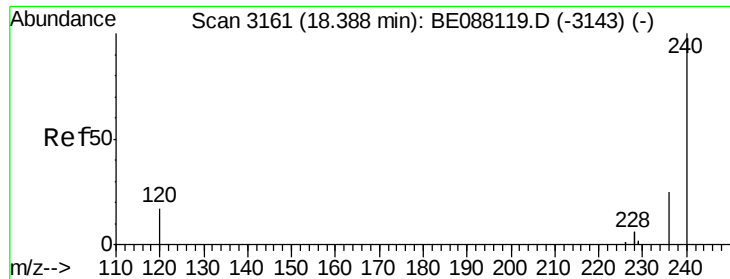
Tgt Ion:178 Resp: 625927
 Ion Ratio Lower Upper
 178 100
 176 18.8 14.6 21.8
 179 15.3 12.5 18.7



#15
 Fluoranthene
 Concen: 13.29 ng
 RT: 15.25 min Scan# 2586
 Delta R.T. 0.00 min
 Lab File: BE088163.D
 Acq: 22 Oct 2014 4:05

Tgt Ion:202 Resp: 206615
 Ion Ratio Lower Upper
 202 100
 101 18.3 14.8 22.2
 203 17.4 13.5 20.3





#16

Chrysene-d12

Concen: 5.00 ng

RT: 18.39 min Scan# 3162

Delta R.T. 0.00 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS01-1014

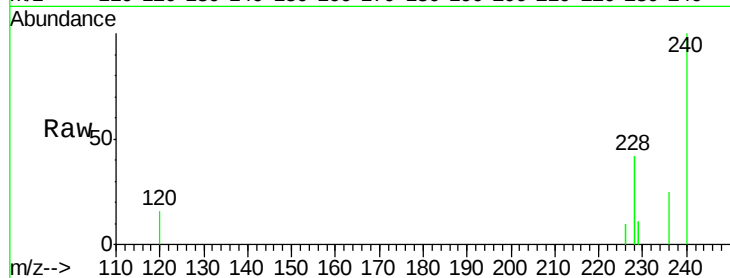
Tgt Ion:240 Resp: 53671

Ion Ratio Lower Upper

240 100

120 16.3 13.9 20.9

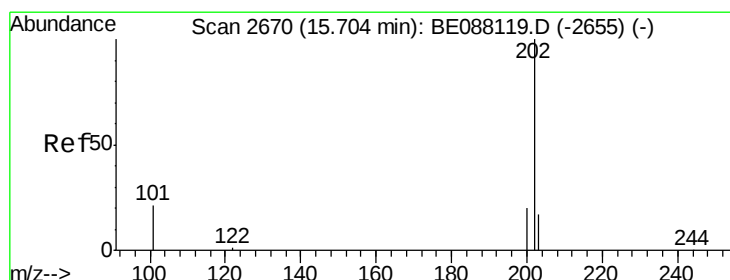
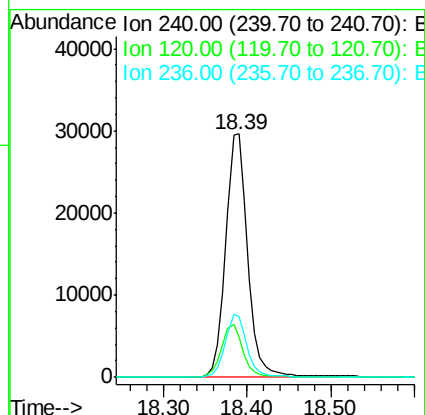
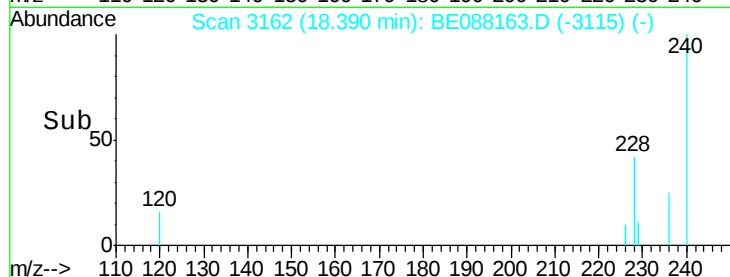
236 24.9 19.9 29.9



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: 12.09 ng

RT: 15.71 min Scan# 2672

Delta R.T. 0.00 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

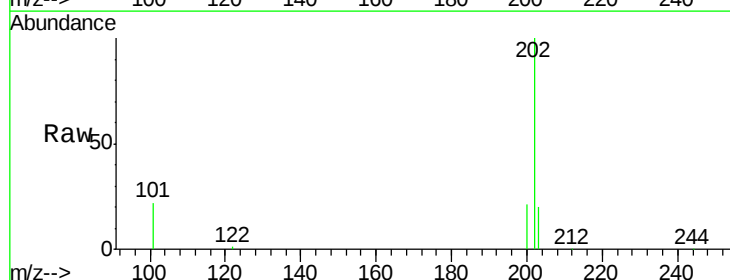
Tgt Ion:202 Resp: 176409

Ion Ratio Lower Upper

202 100

200 20.4 16.1 24.1

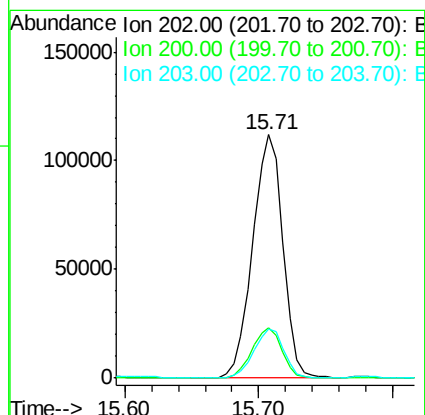
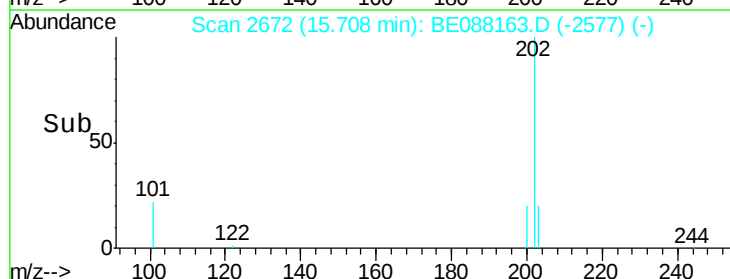
203 20.0 13.9 20.9

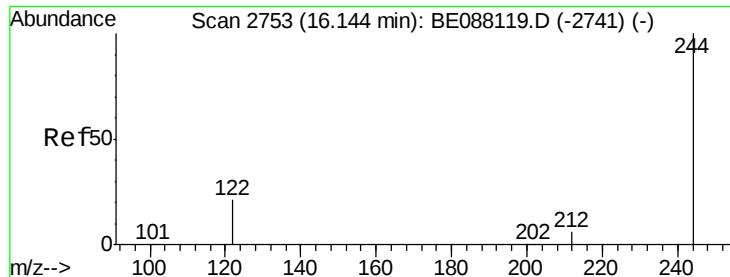


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Terphenyl-d14

Concen: 6.24 ng

RT: 16.15 min Scan# 2755

Delta R.T. 0.00 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS01-1014

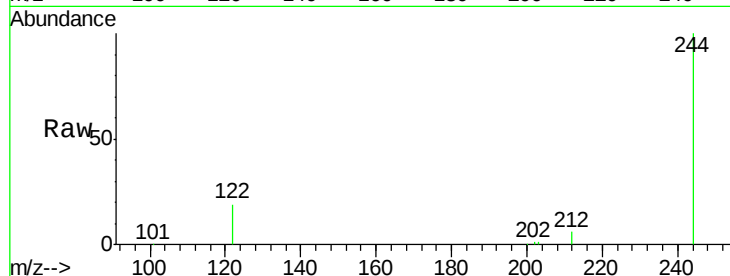
Tgt Ion:244 Resp: 53867

Ion Ratio Lower Upper

244 100

212 6.4 5.4 8.0

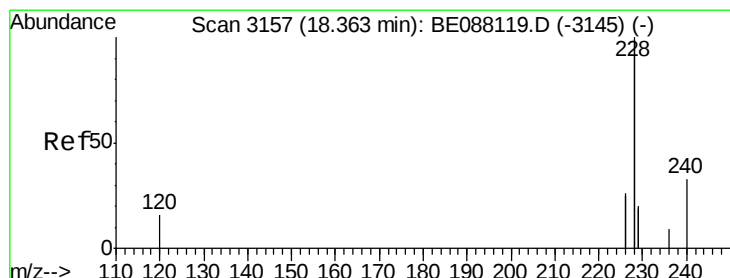
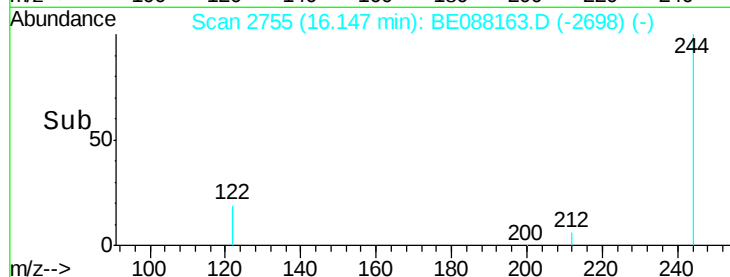
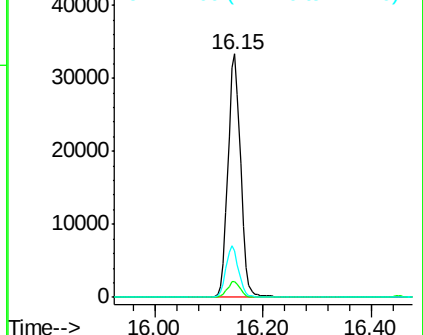
122 19.0 17.5 26.3



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: 5.79 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

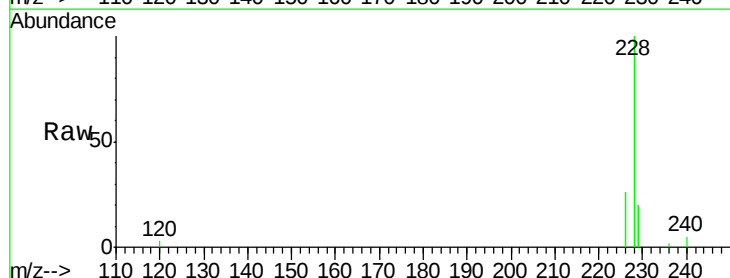
Tgt Ion:228 Resp: 276388

Ion Ratio Lower Upper

228 100

226 26.5 20.8 31.2

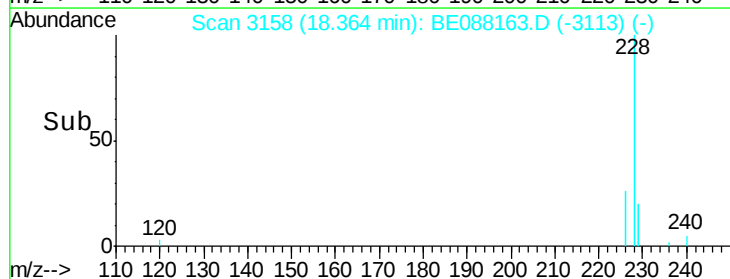
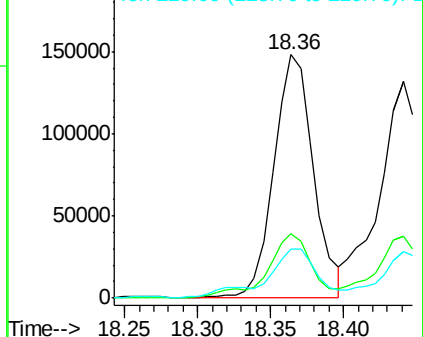
229 20.3 15.6 23.4

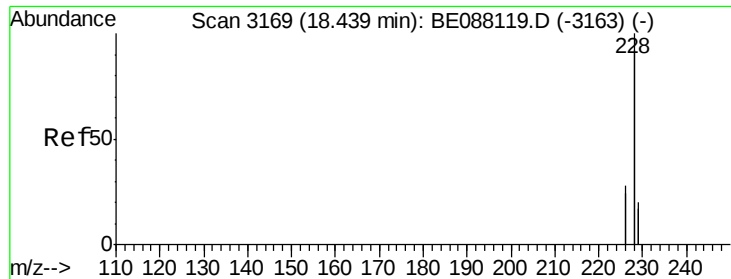


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 5.73 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS01-1014

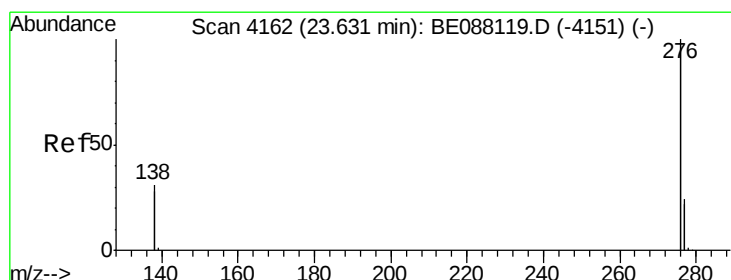
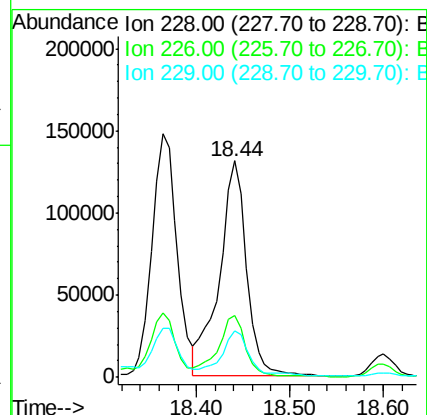
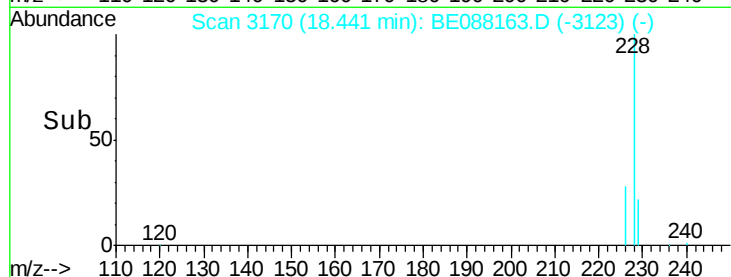
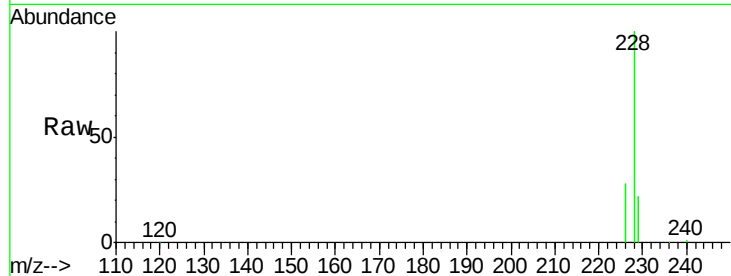
Tgt Ion:228 Resp: 268479

Ion Ratio Lower Upper

228 100

226 28.4 22.7 34.1

229 21.6 15.8 23.6



#21

Indeno(1,2,3-cd)pyrene

Concen: 2.67 ng

RT: 23.64 min Scan# 4164

Delta R.T. 0.01 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

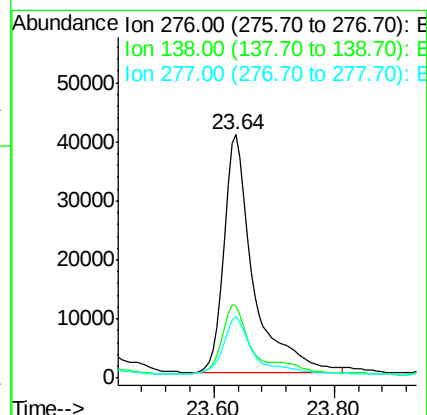
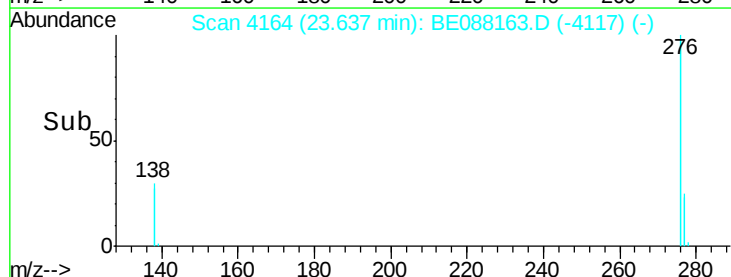
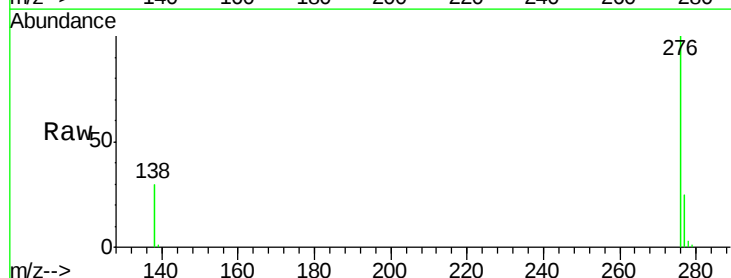
Tgt Ion:276 Resp: 138909

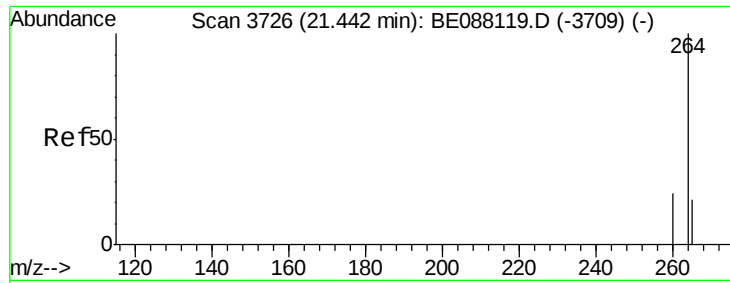
Ion Ratio Lower Upper

276 100

138 30.6 18.5 27.7#

277 25.7 14.6 21.8#

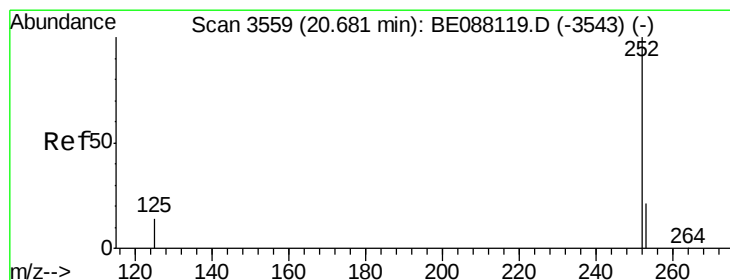
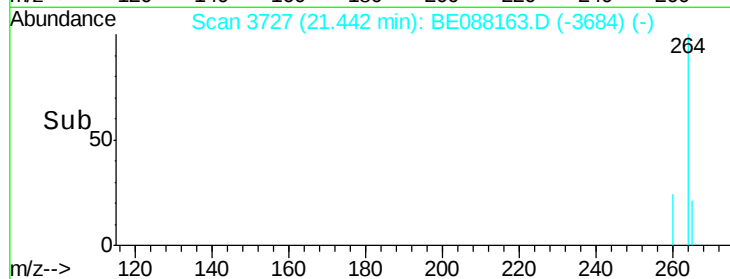
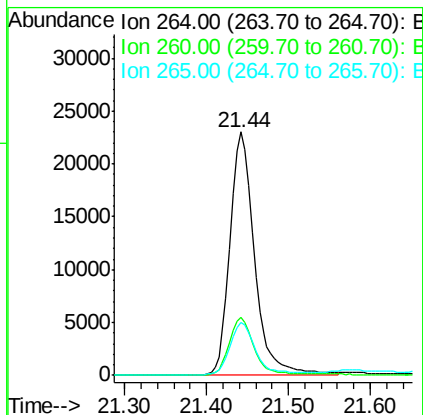
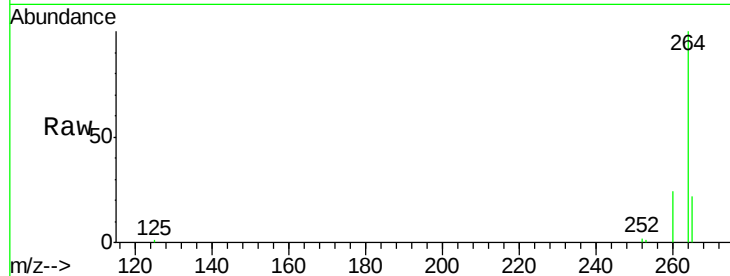




#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.44 min Scan# 3727
 Delta R.T. 0.00 min
 Lab File: BE088163.D
 Acq: 22 Oct 2014 4:05

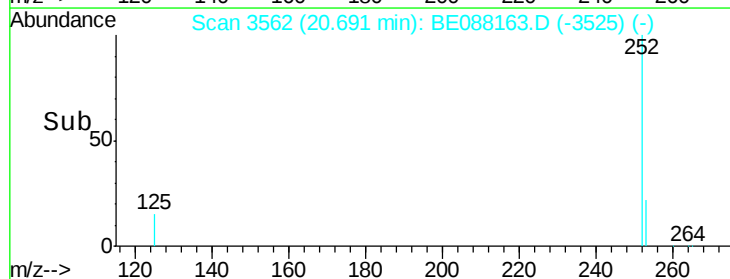
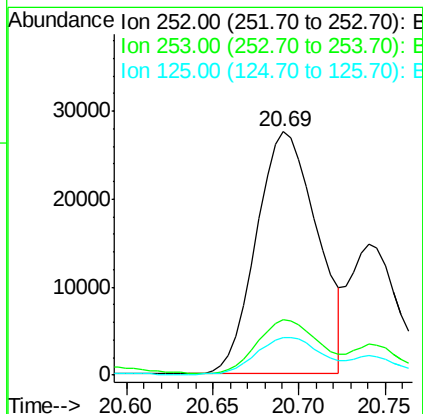
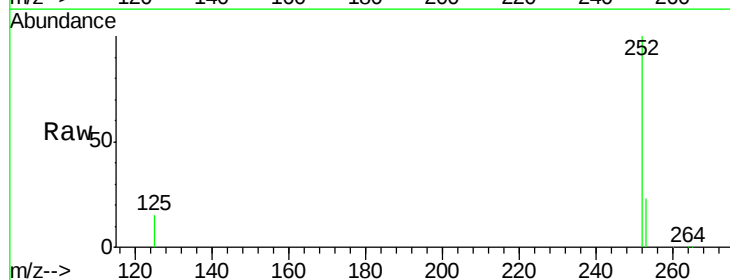
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS01-1014

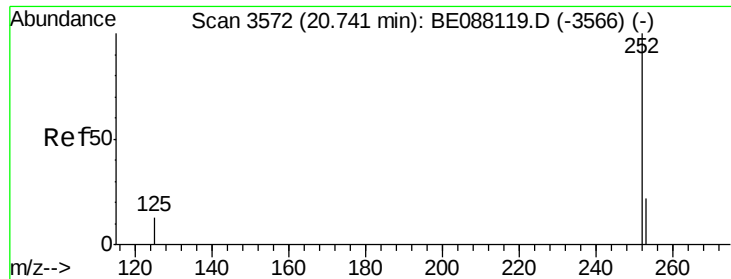
Tgt Ion: 264 Resp: 47229
 Ion Ratio Lower Upper
 264 100
 260 23.8 19.0 28.4
 265 21.6 17.2 25.8



#23
 Benzo(b)fluoranthene
 Concen: 6.00 ng
 RT: 20.69 min Scan# 3562
 Delta R.T. 0.01 min
 Lab File: BE088163.D
 Acq: 22 Oct 2014 4:05

Tgt Ion: 252 Resp: 67458
 Ion Ratio Lower Upper
 252 100
 253 22.8 17.4 26.0
 125 15.2 11.8 17.8





#24

Benzo(k)fluoranthene

Concen: 2.37 ng

RT: 20.74 min Scan# 3573

Delta R.T. 0.00 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

Instrument :

BNA_E

ClientSampleId :

YS19-SS01-1014

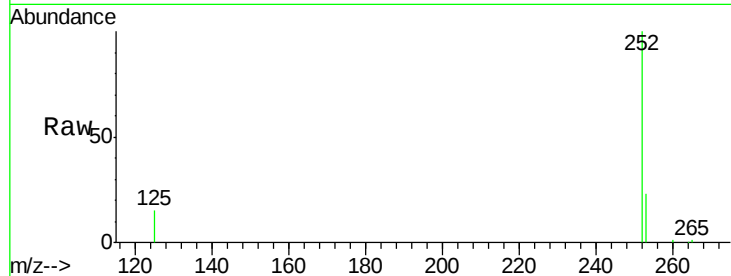
Tgt Ion: 252 Resp: 28552

Ion Ratio Lower Upper

252 100

253 23.3 17.6 26.4

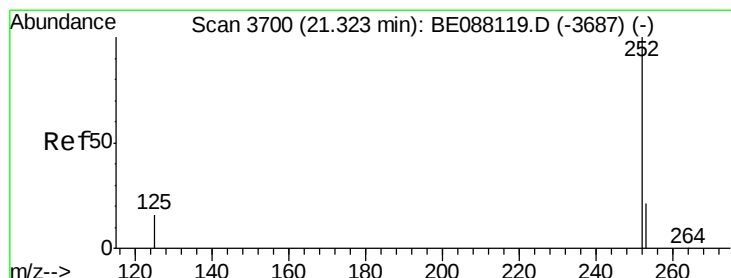
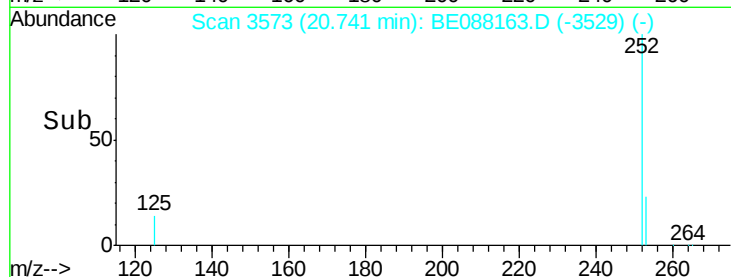
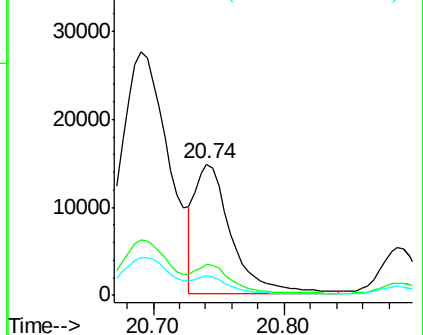
125 14.6 11.5 17.3



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: 5.11 ng

RT: 21.33 min Scan# 3702

Delta R.T. 0.00 min

Lab File: BE088163.D

Acq: 22 Oct 2014 4:05

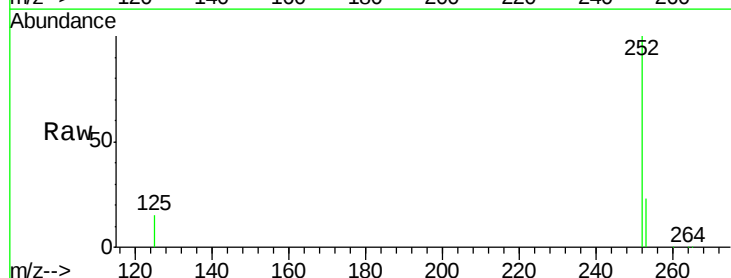
Tgt Ion: 252 Resp: 52903

Ion Ratio Lower Upper

252 100

253 23.5 17.5 26.3

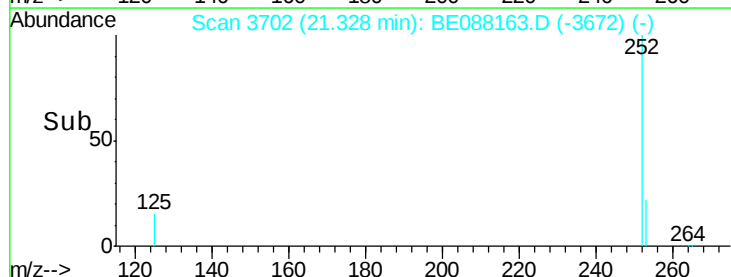
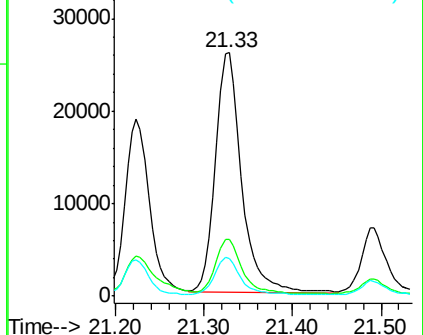
125 15.3 13.0 19.6



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E

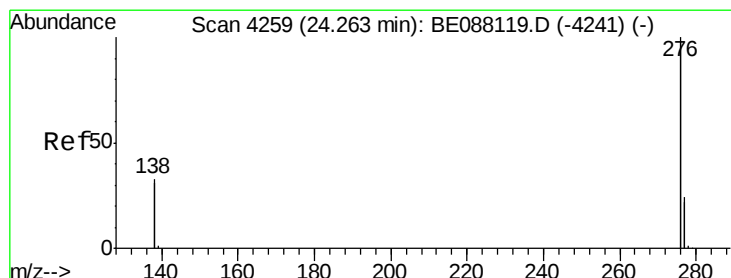
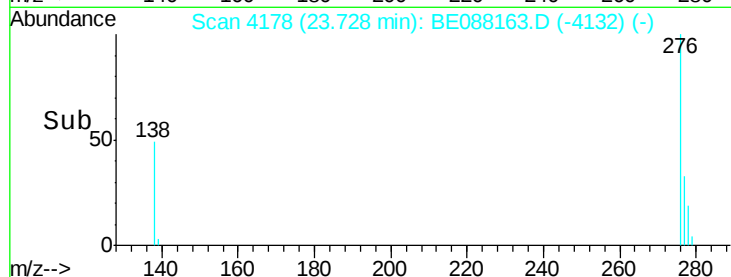
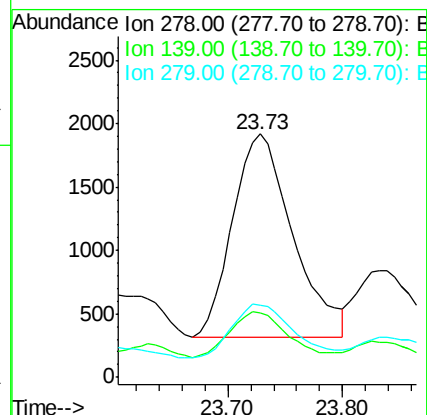
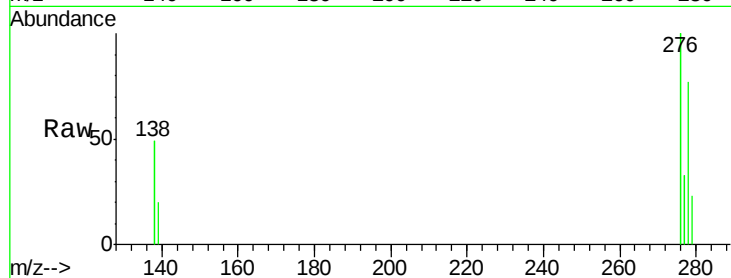




#26
Dibenzo(a,h)anthracene
Concen: 0.57 ng
RT: 23.73 min Scan# 4178
Delta R.T. -0.00 min
Lab File: BE088163.D
Acq: 22 Oct 2014 4:05

Instrument :
BNA_E
ClientSampleId :
YS19-SS01-1014

Tgt Ion: 278 Resp: 5825
Ion Ratio Lower Upper
278 100
139 26.6 20.9 31.3
279 29.9 19.8 29.8#



#27
Benzo(g,h,i)perylene
Concen: 3.14 ng
RT: 24.27 min Scan# 4261
Delta R.T. 0.01 min
Lab File: BE088163.D
Acq: 22 Oct 2014 4:05

Tgt Ion: 276 Resp: 140747
Ion Ratio Lower Upper
276 100
277 24.1 19.2 28.8
138 32.4 26.6 40.0

