

Data Path : Z:\HPCHEM1\BNA_E\Data\BE102114\
 Data File : BE088165.D
 Acq On : 22 Oct 2014 5:14
 Operator : TP/JJ
 Sample : F4303-13DL 5X
 Misc :
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS04-1014DL

Quant Time: Oct 22 05:48:01 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

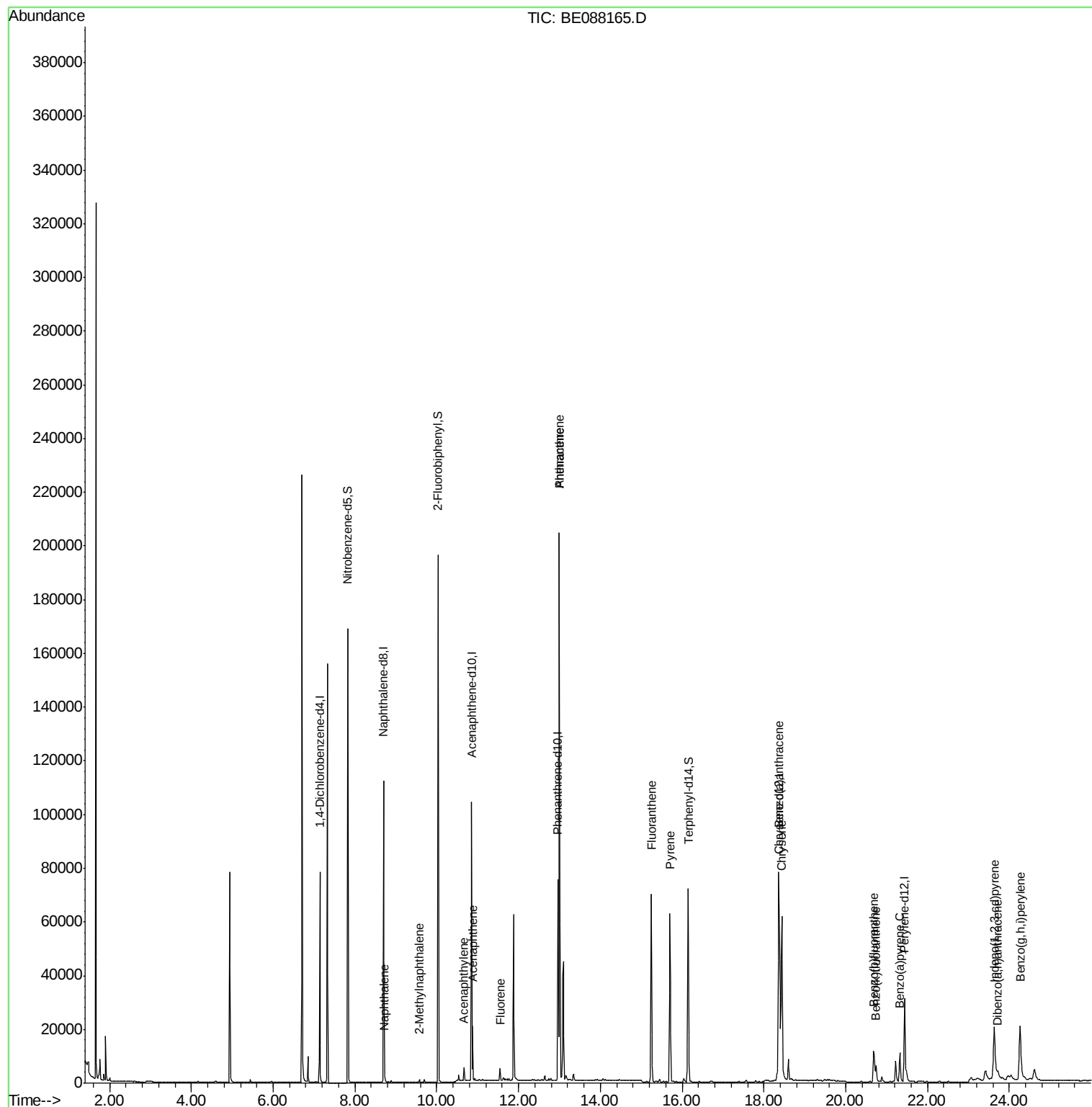
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) 1,4-Dichlorobenzene-d4	7.14	152	21551	5.00	ng	0.00
3) Naphthalene-d8	8.70	136	84869	5.00	ng	0.00
7) Acenaphthene-d10	10.85	164	45193	5.00	ng	0.00
12) Phenanthrene-d10	12.96	188	87932	5.00	ng	0.00
16) Chrysene-d12	18.38	240	50860	5.00	ng	0.00
22) Perylene-d12	21.44	264	42932	5.00	ng	0.00
System Monitoring Compounds						
4) Nitrobenzene-d5	7.83	82	71658	11.71	ng	0.00
8) 2-Fluorobiphenyl	10.04	172	115659	9.27	ng	0.00
18) Terphenyl-d14	16.15	244	90770	11.09	ng	0.00
Target Compounds						Qvalue
5) Naphthalene	8.72	128	1494	0.09	ng	95
6) 2-Methylnaphthalene	9.58	142	555	0.05	ng	# 97
9) Acenaphthylene	10.66	152	5821	0.08	ng	99
10) Acenaphthene	10.88	154	2566	0.24	ng	95
11) Fluorene	11.55	166	2925	0.26	ng	98
13) Phenanthrene	13.00	178	206366	3.10	ng	95
14) Anthracene	13.00	178	206366	3.01	ng	99
15) Fluoranthene	15.25	202	67367	4.03	ng	99
17) Pyrene	15.70	202	57695	4.17	ng	97
19) Benzo(a)anthracene	18.36	228	85978	1.90	ng	98
20) Chrysene	18.44	228	86478	1.95	ng	97
21) Indeno(1,2,3-cd)pyrene	23.63	276	43790	0.89	ng	# 87
23) Benzo(b)fluoranthene	20.68	252	21226	2.08	ng	98
24) Benzo(k)fluoranthene	20.74	252	9388	0.86	ng	97
25) Benzo(a)pyrene	21.32	252	15528	1.65	ng	97
26) Dibenzo(a,h)anthracene	23.72	278	2147	0.23	ng	# 87
27) Benzo(g,h,i)perylene	24.26	276	43915	1.08	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: BE088165.D

Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

ClientSampleId :

YS19-SS04-1014DL

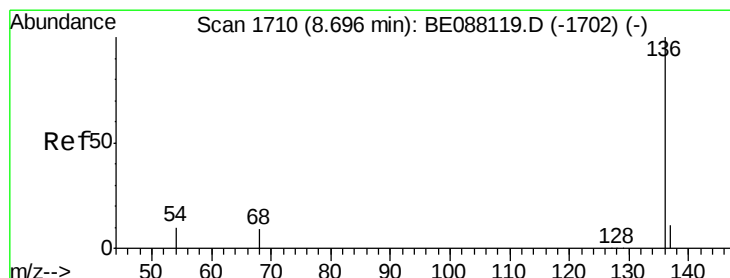
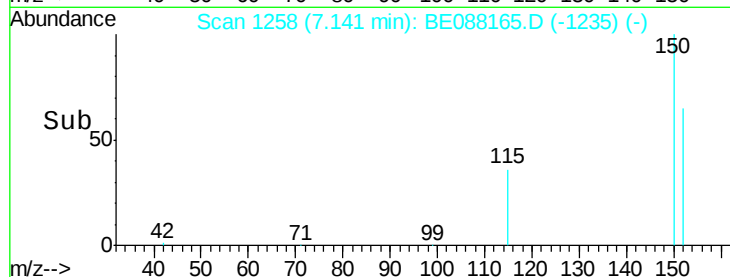
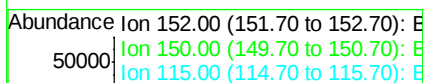
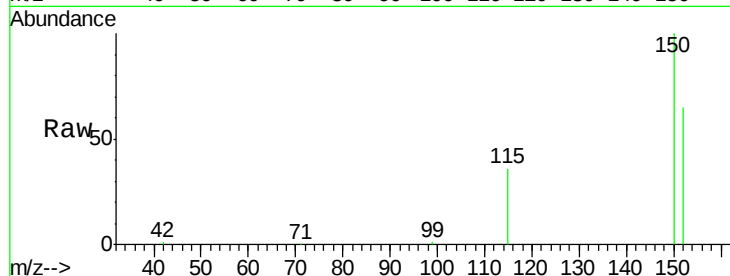
Tgt Ion:152 Resp: 21551

Ion Ratio Lower Upper

152 100

150 152.8 129.2 193.8

115 55.3 49.3 73.9



#3

Naphthalene-d8

Concen: 5.00 ng

RT: 8.70 min Scan# 1712

Delta R.T. 0.01 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

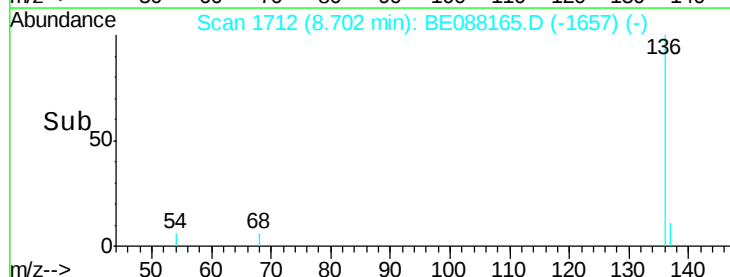
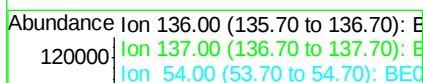
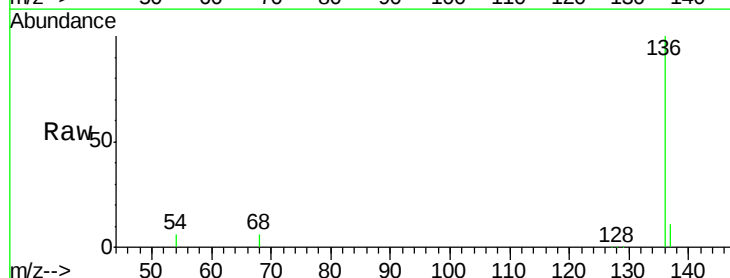
Tgt Ion:136 Resp: 84869

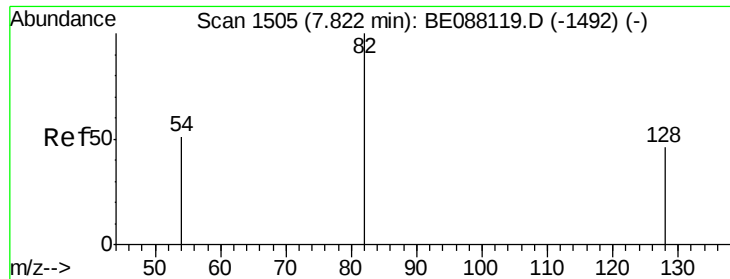
Ion Ratio Lower Upper

136 100

137 11.3 8.6 12.8

54 5.7 7.7 11.5#





#4

Nitrobenzene-d5

Concen: 11.71 ng

RT: 7.83 min Scan# 1507

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

ClientSampleId :

YS19-SS04-1014DL

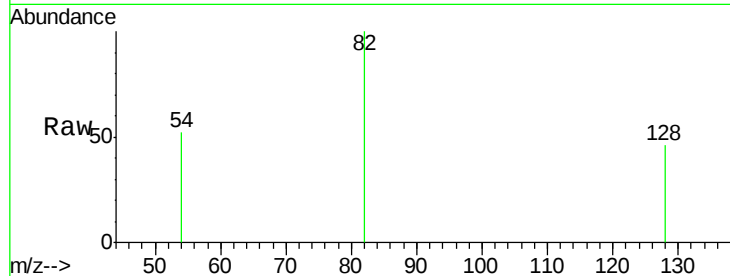
Tgt Ion: 82 Resp: 71658

Ion Ratio Lower Upper

82 100

128 46.2 37.1 55.7

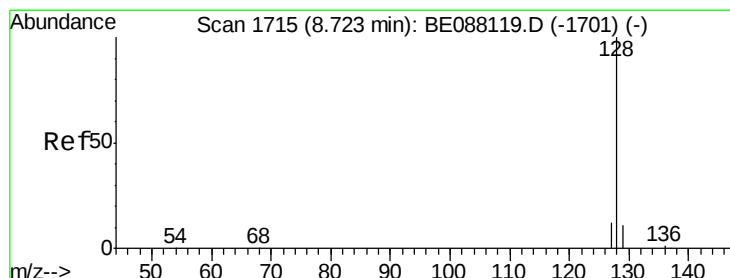
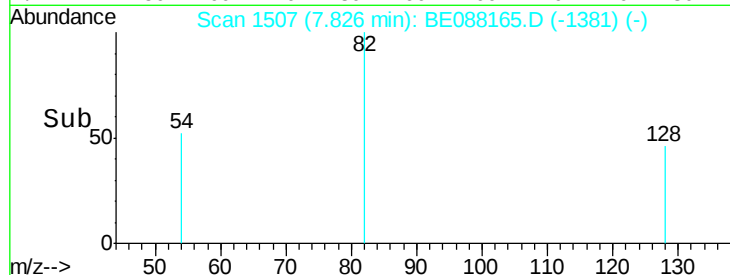
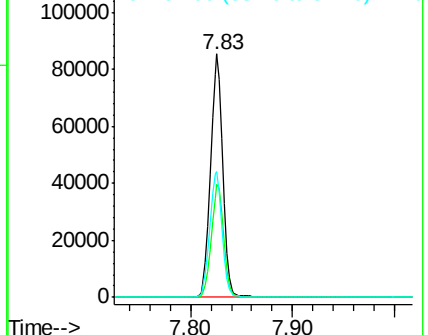
54 52.0 41.1 61.7



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: 0.09 ng

RT: 8.72 min Scan# 1716

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

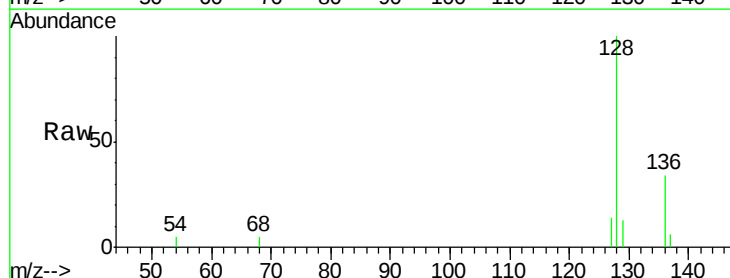
Tgt Ion: 128 Resp: 1494

Ion Ratio Lower Upper

128 100

129 13.0 8.9 13.3

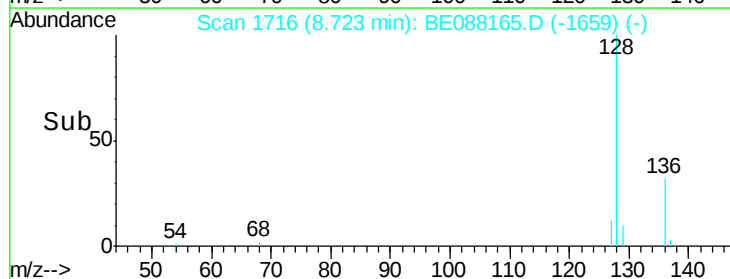
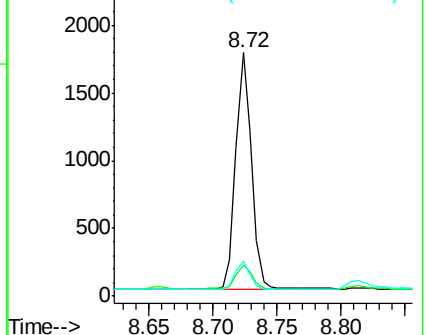
127 14.2 9.7 14.5

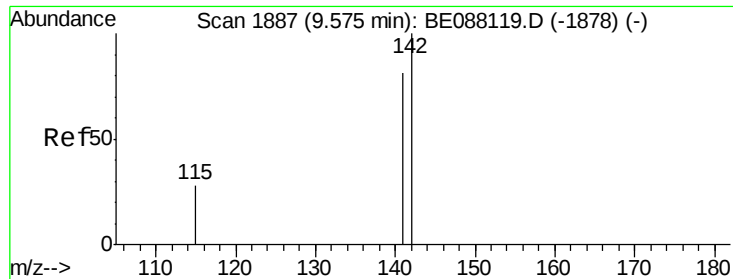


Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E





#6

2-Methylnaphthalene

Concen: 0.05 ng

RT: 9.58 min Scan# 1888

Delta R.T. 0.00 min

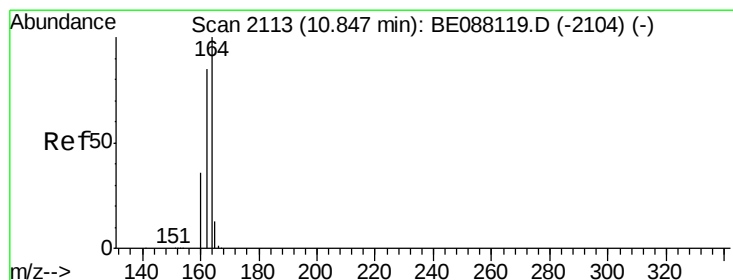
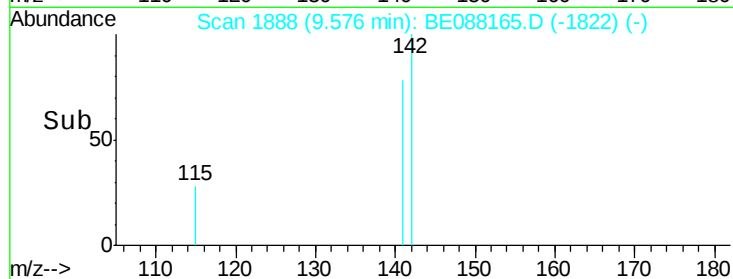
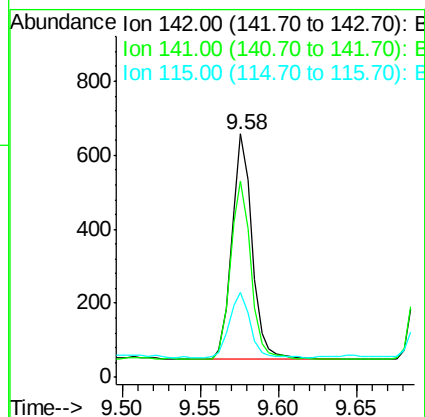
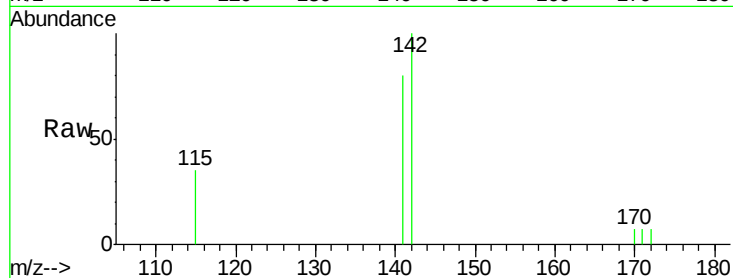
Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Instrument :
BNA_E
ClientSampleId :
YS19-SS04-1014DL

Tgt Ion:142 Resp: 555

Ion	Ratio	Lower	Upper
142	100		
141	80.4	64.6	97.0
115	34.7	22.6	34.0#



#7

Acenaphthene-d10

Concen: 5.00 ng

RT: 10.85 min Scan# 2114

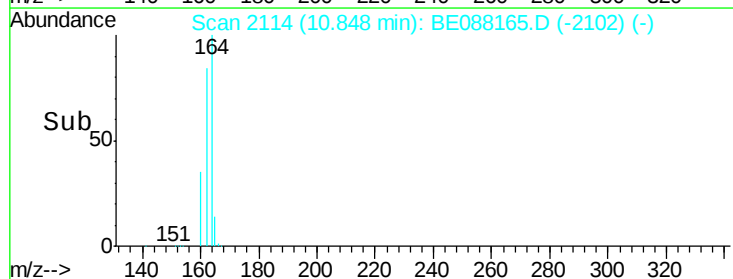
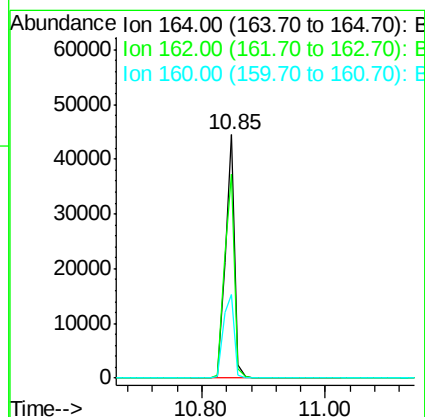
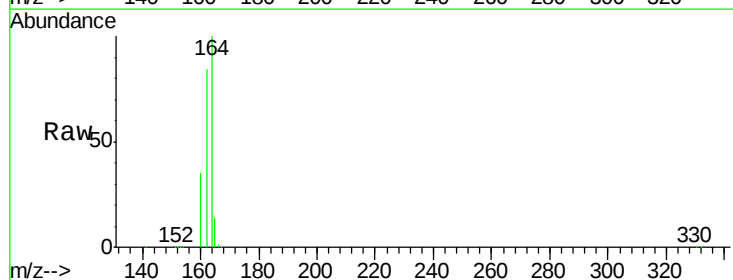
Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Tgt Ion:164 Resp: 45193

Ion	Ratio	Lower	Upper
164	100		
162	83.9	68.3	102.5
160	34.6	28.7	43.1

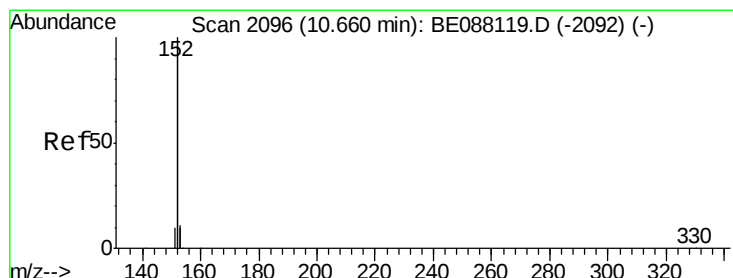
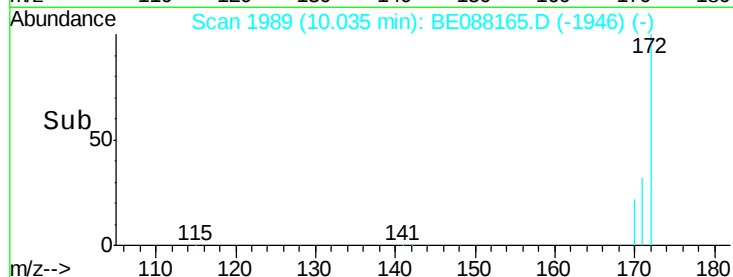
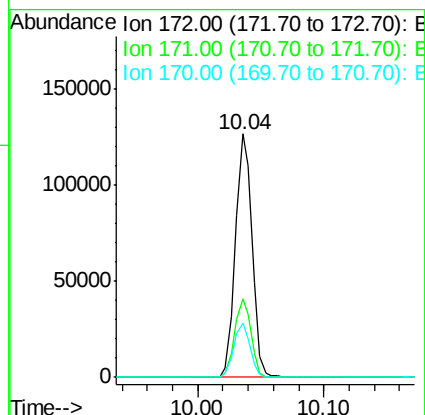
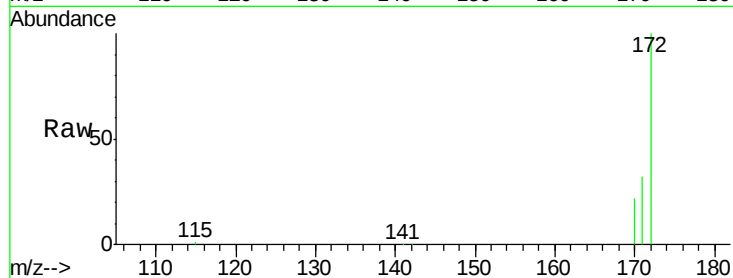




#8
2-Fluorobiphenyl
Concen: 9.27 ng
RT: 10.04 min Scan# 1989
Delta R.T. 0.00 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

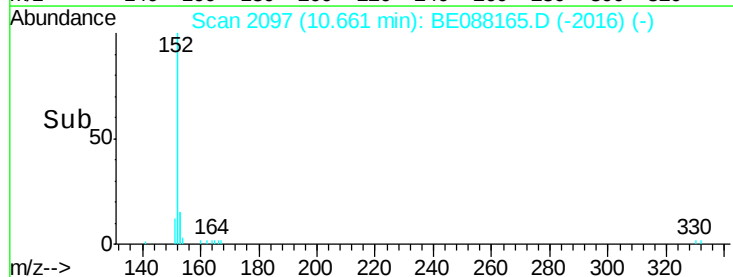
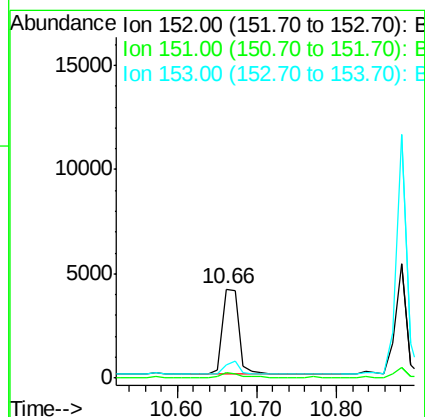
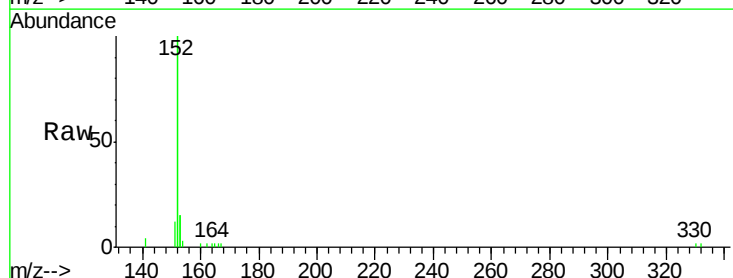
Instrument :
BNA_E
ClientSampleId :
YS19-SS04-1014DL

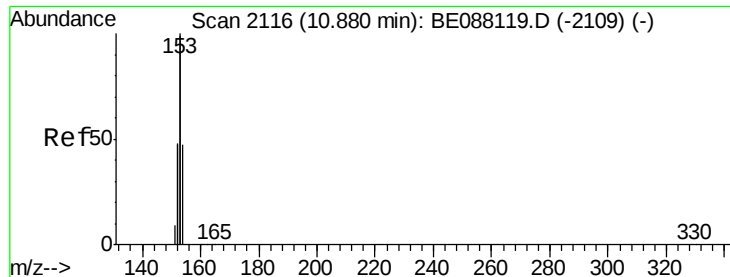
Tgt Ion:172 Resp: 115659
Ion Ratio Lower Upper
172 100
171 32.5 25.4 38.2
170 22.2 17.4 26.2



#9
Acenaphthylene
Concen: 0.08 ng
RT: 10.66 min Scan# 2097
Delta R.T. 0.00 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

Tgt Ion:152 Resp: 5821
Ion Ratio Lower Upper
152 100
151 4.7 3.7 5.5
153 13.6 10.4 15.6





#10

Acenaphthene

Concen: 0.24 ng

RT: 10.88 min Scan# 2117

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

ClientSampleId :

YS19-SS04-1014DL

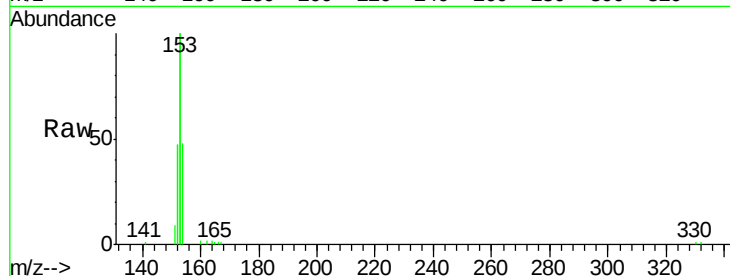
Tgt Ion:154 Resp: 2566

Ion Ratio Lower Upper

154 100

153 391.5 327.8 491.6

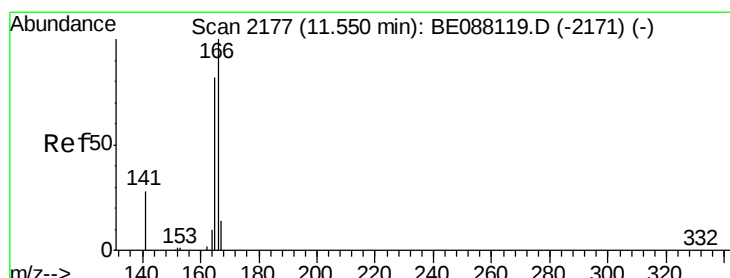
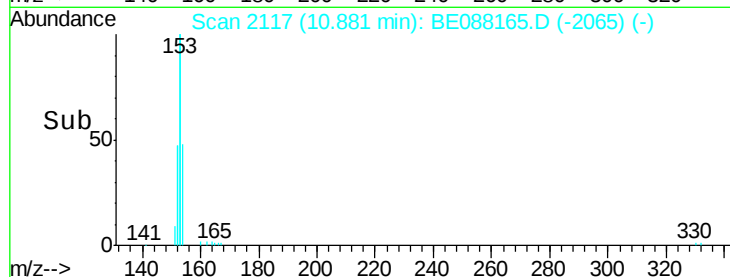
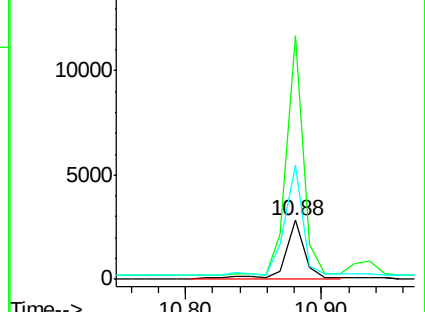
152 196.8 157.6 236.4



Abundance Ion 154.00 (153.70 to 154.70): E

Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E



#11

Fluorene

Concen: 0.26 ng

RT: 11.55 min Scan# 2178

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

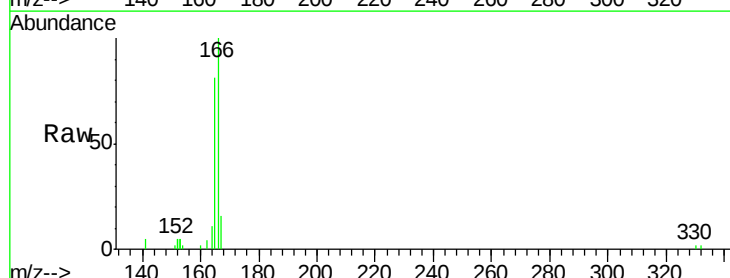
Tgt Ion:166 Resp: 2925

Ion Ratio Lower Upper

166 100

165 90.8 71.4 107.2

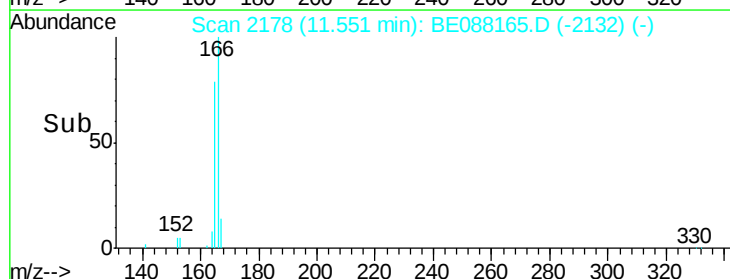
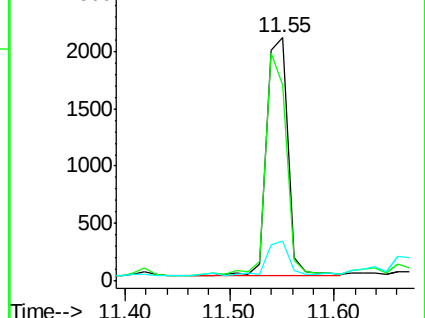
167 14.2 10.6 16.0

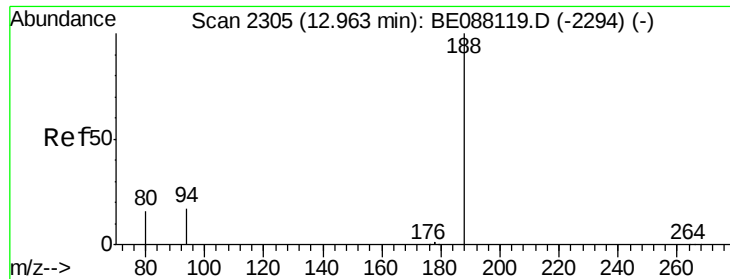


Abundance Ion 166.00 (165.70 to 166.70): E

Ion 165.00 (164.70 to 165.70): E

Ion 167.00 (166.70 to 167.70): E

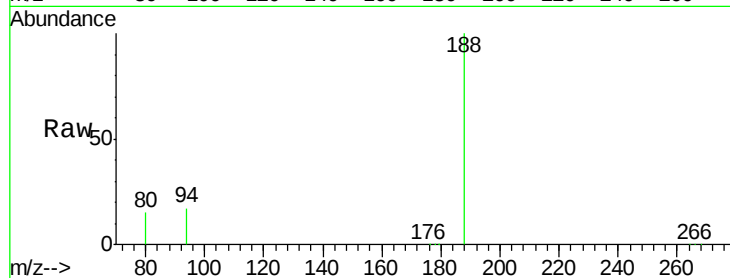




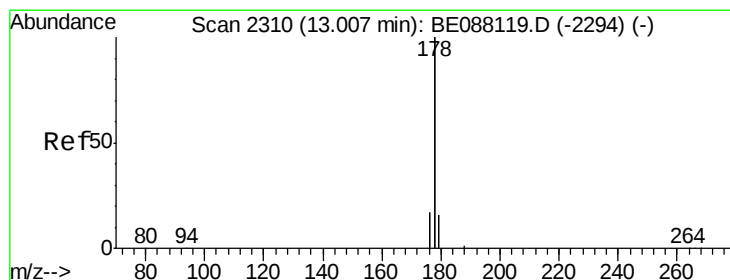
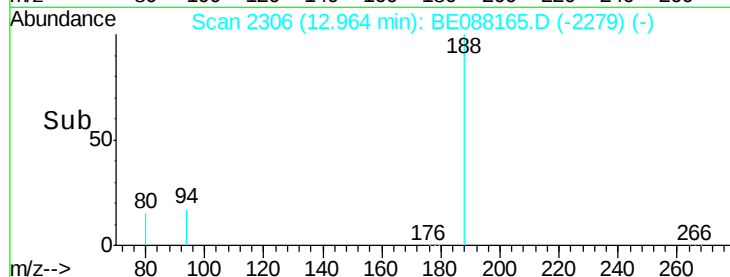
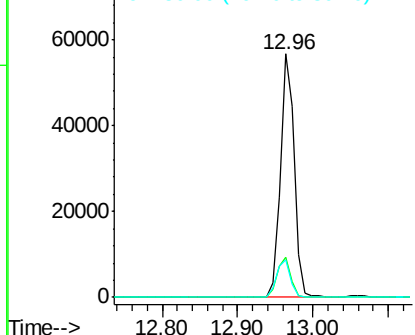
#12
Phenanthrene-d10
Concen: 5.00 ng
RT: 12.96 min Scan# 2306
Delta R.T. 0.00 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

Instrument :
BNA_E
ClientSampleId :
YS19-SS04-1014DL

Tgt Ion:188 Resp: 87932
Ion Ratio Lower Upper
188 100
94 16.6 13.9 20.9
80 15.5 12.9 19.3

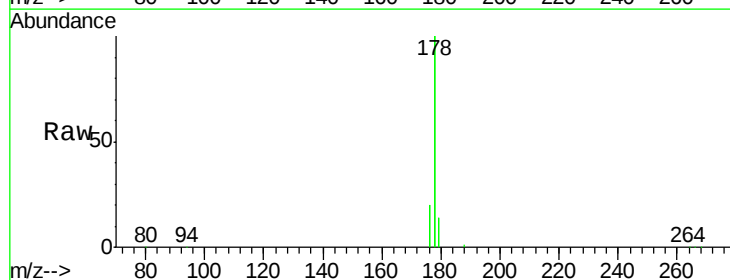


Abundance Ion 188.00 (187.70 to 188.70): E
Ion 94.00 (93.70 to 94.70): BE0
Ion 80.00 (79.70 to 80.70): BE0

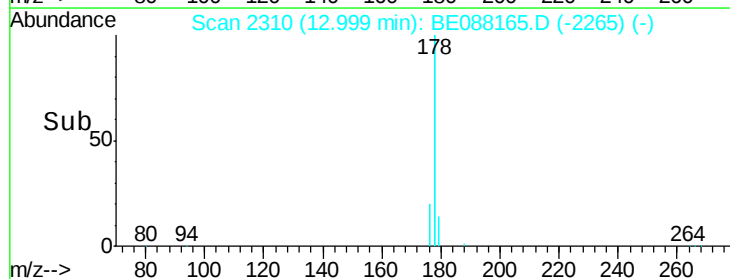
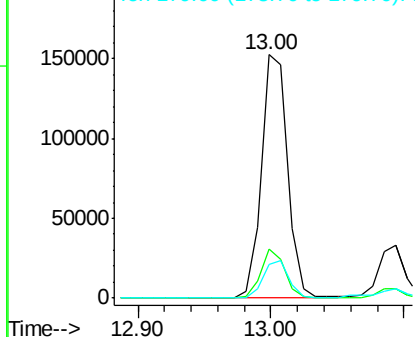


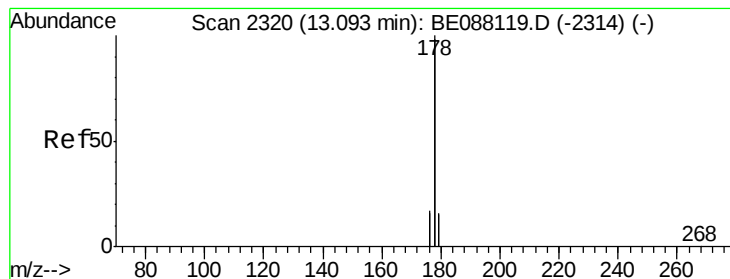
#13
Phenanthrene
Concen: 3.10 ng
RT: 13.00 min Scan# 2310
Delta R.T. -0.01 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

Tgt Ion:178 Resp: 206366
Ion Ratio Lower Upper
178 100
176 18.5 12.5 18.7
179 15.4 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: 3.01 ng

RT: 13.00 min Scan# 2310

Delta R.T. -0.09 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

ClientSampleId :

YS19-SS04-1014DL

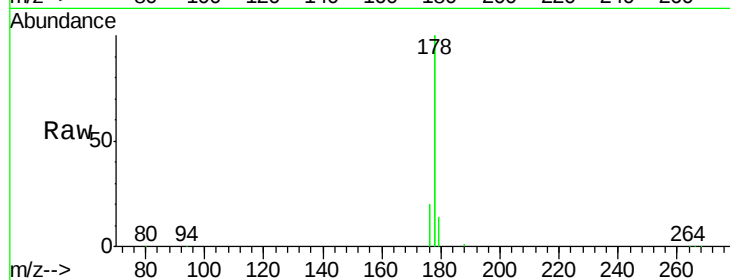
Tgt Ion:178 Resp: 206366

Ion Ratio Lower Upper

178 100

176 18.5 14.6 21.8

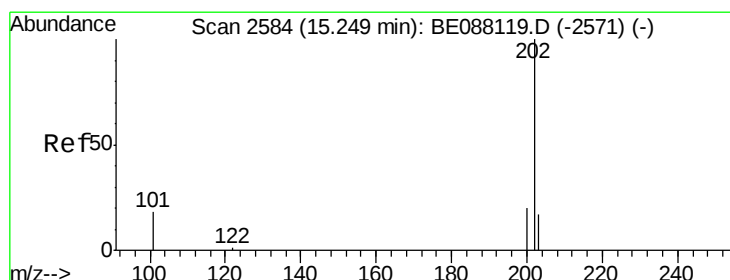
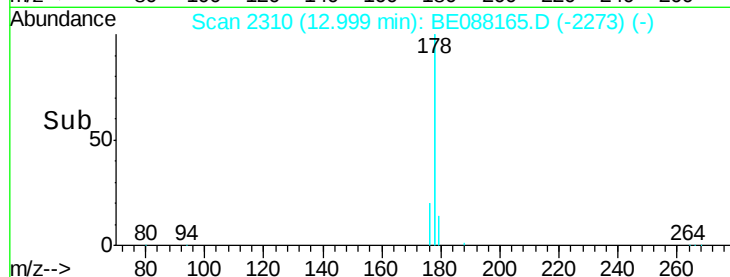
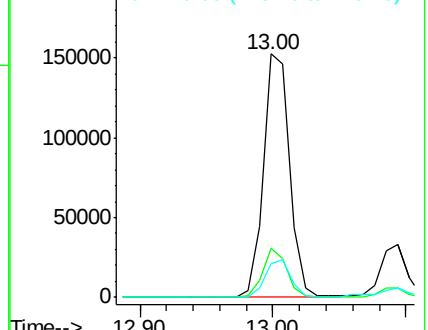
179 15.4 12.5 18.7



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: 4.03 ng

RT: 15.25 min Scan# 2585

Delta R.T. -0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

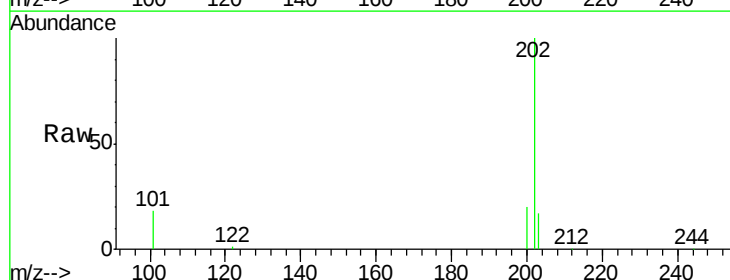
Tgt Ion:202 Resp: 67367

Ion Ratio Lower Upper

202 100

101 18.3 14.8 22.2

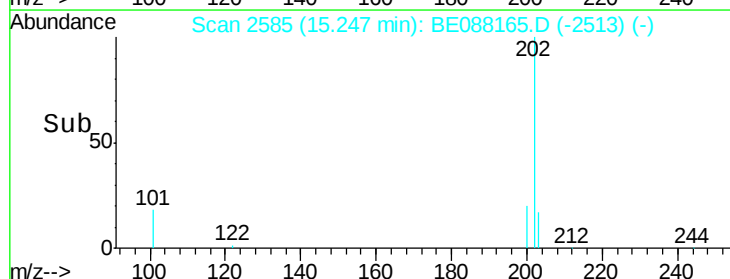
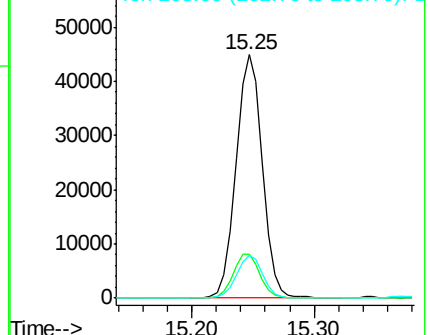
203 17.2 13.5 20.3

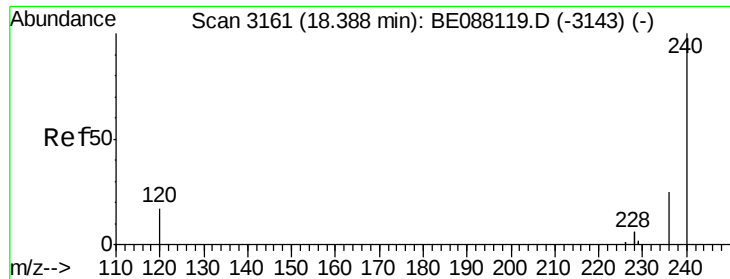


Abundance Ion 202.00 (201.70 to 202.70): E

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: 18.38 min Scan# 3161

Delta R.T. -0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

ClientSampleId :

YS19-SS04-1014DL

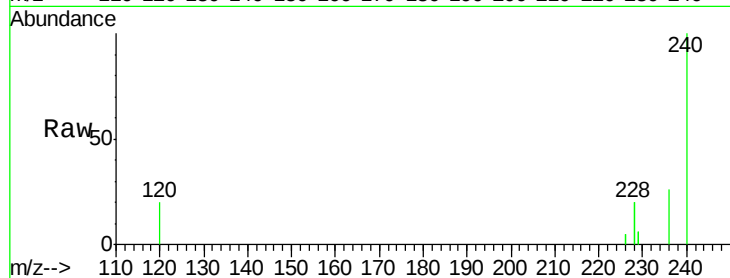
Tgt Ion:240 Resp: 50860

Ion Ratio Lower Upper

240 100

120 19.9 13.9 20.9

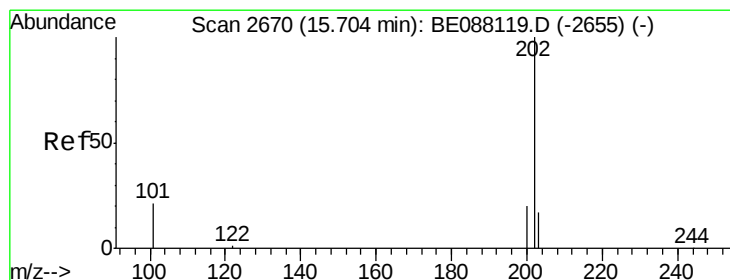
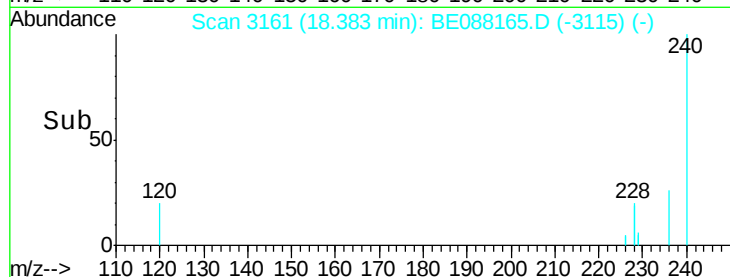
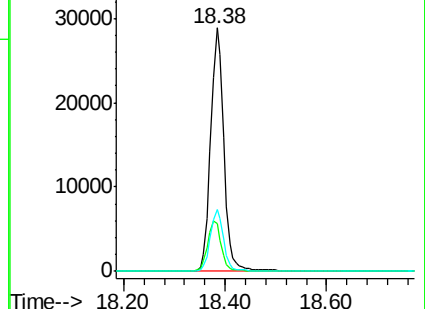
236 25.7 19.9 29.9



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: 4.17 ng

RT: 15.70 min Scan# 2671

Delta R.T. -0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

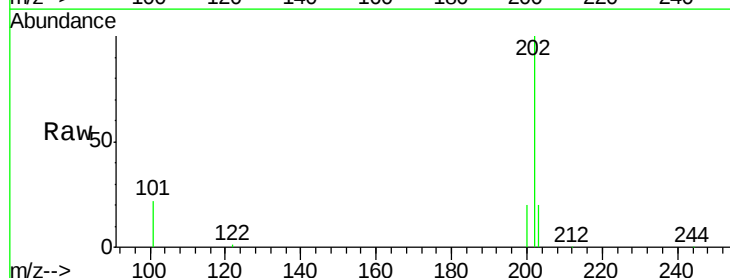
Tgt Ion:202 Resp: 57695

Ion Ratio Lower Upper

202 100

200 20.3 16.1 24.1

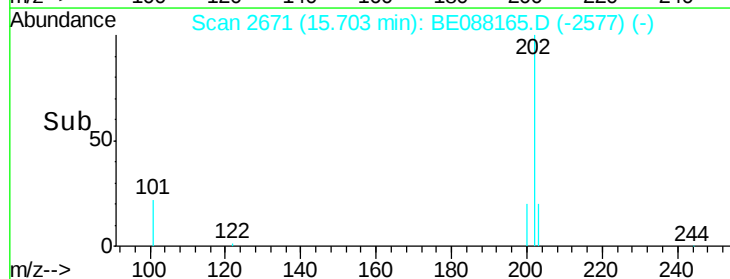
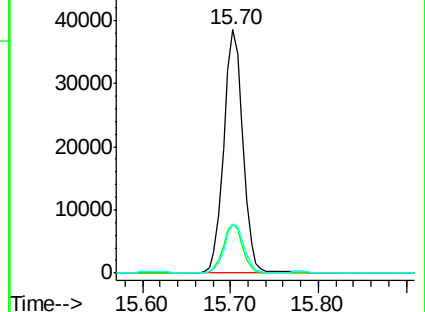
203 20.2 13.9 20.9

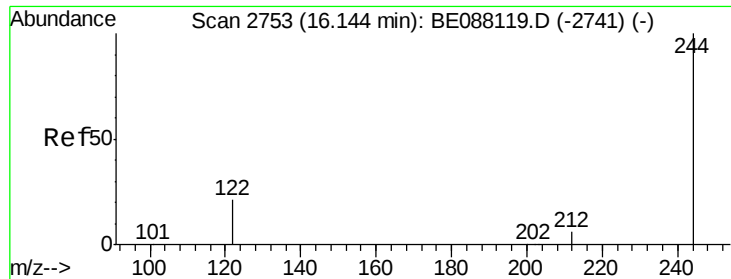


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E





#18

Terphenyl-d14

Concen: 11.09 ng

RT: 16.15 min Scan# 2755

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

ClientSampleId :

YS19-SS04-1014DL

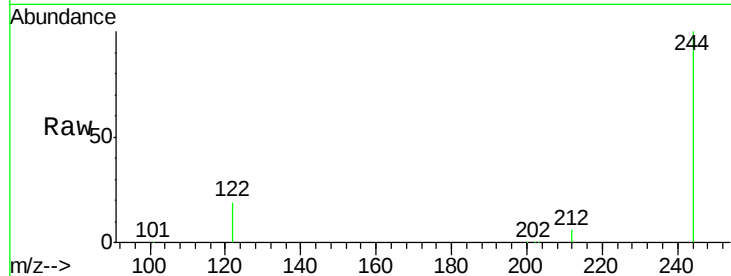
Tgt Ion:244 Resp: 90770

Ion Ratio Lower Upper

244 100

212 6.5 5.4 8.0

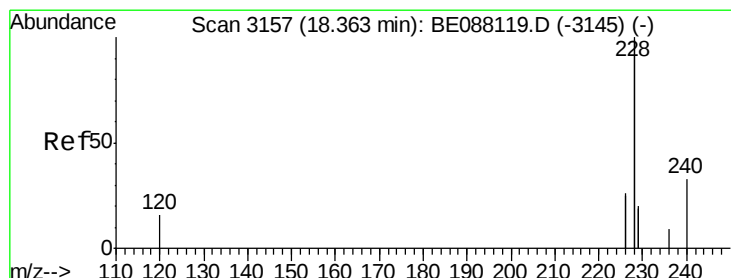
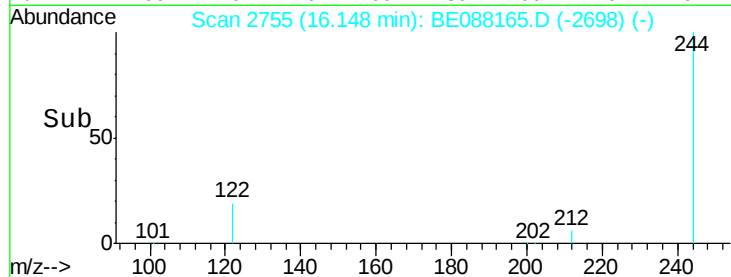
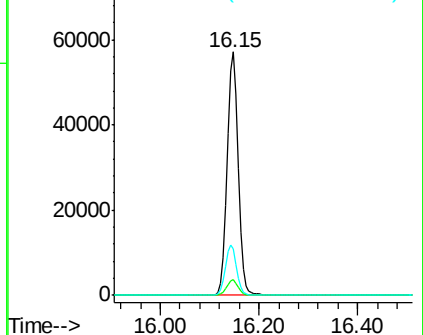
122 19.1 17.5 26.3



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: 1.90 ng

RT: 18.36 min Scan# 3158

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

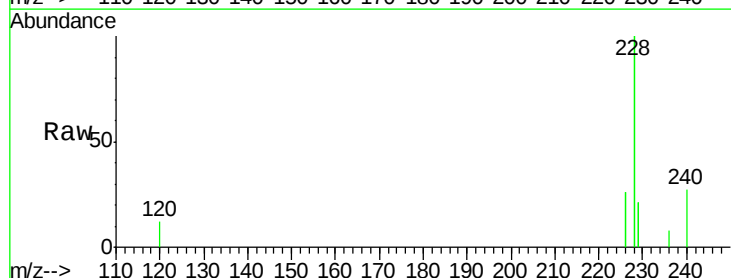
Tgt Ion:228 Resp: 85978

Ion Ratio Lower Upper

228 100

226 25.7 20.8 31.2

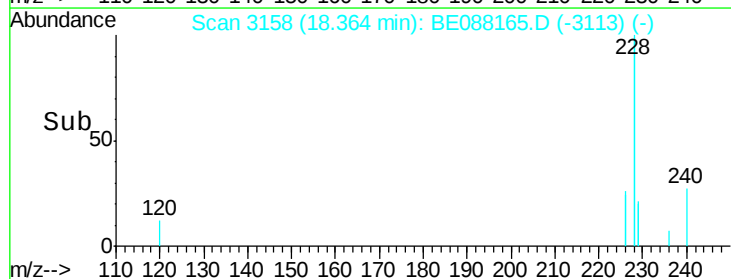
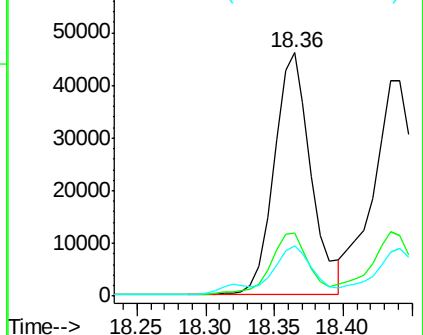
229 20.8 15.6 23.4

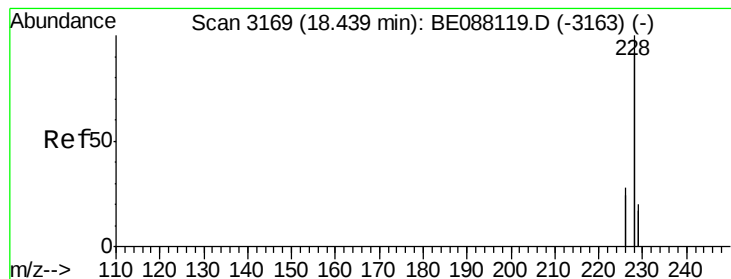


Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E





#20

Chrysene

Concen: 1.95 ng

RT: 18.44 min Scan# 3170

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

ClientSampleId :

YS19-SS04-1014DL

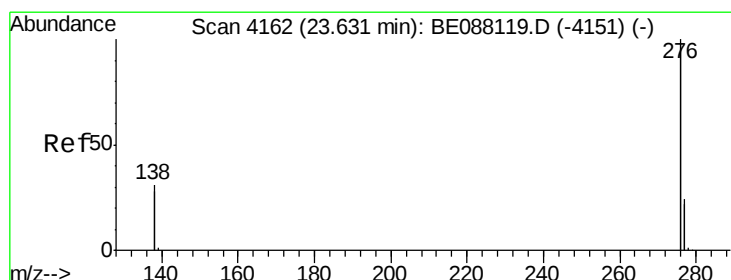
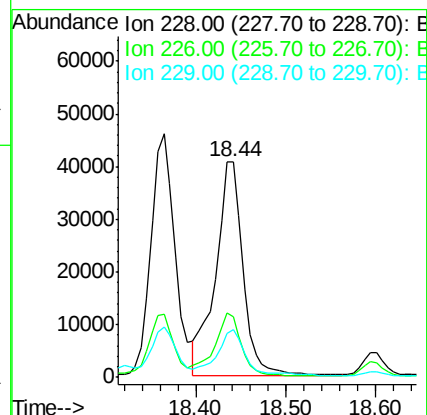
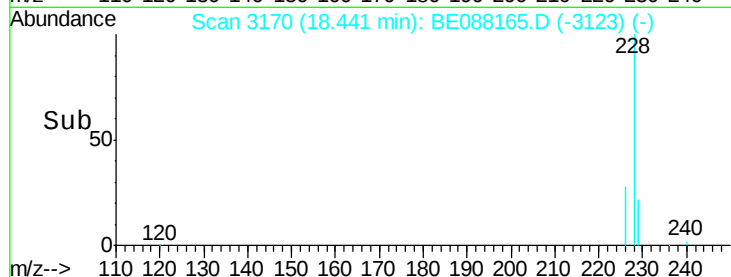
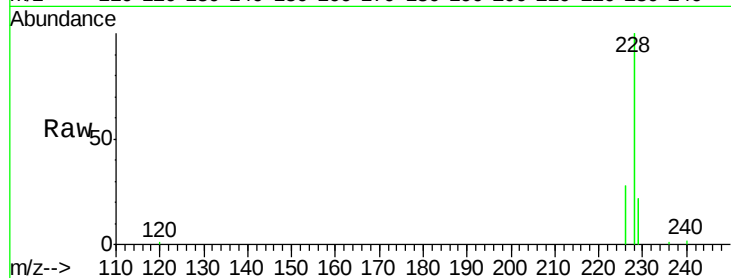
Tgt Ion:228 Resp: 86478

Ion Ratio Lower Upper

228 100

226 27.8 22.7 34.1

229 22.3 15.8 23.6



#21

Indeno(1,2,3-cd)pyrene

Concen: 0.89 ng

RT: 23.63 min Scan# 4163

Delta R.T. -0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

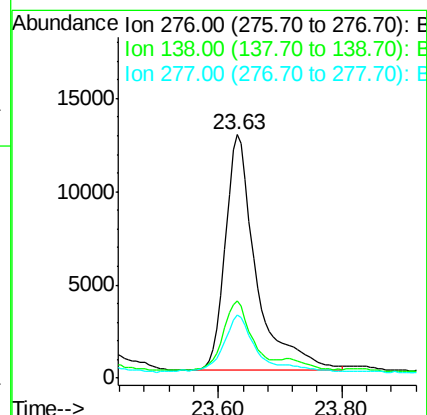
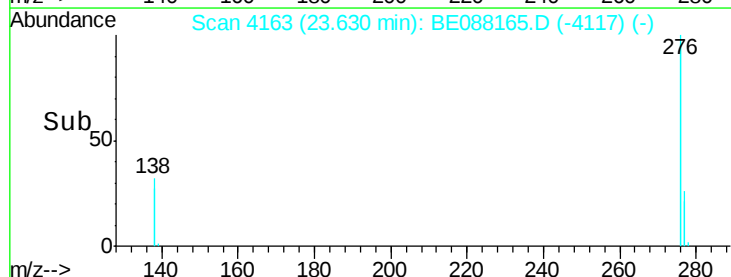
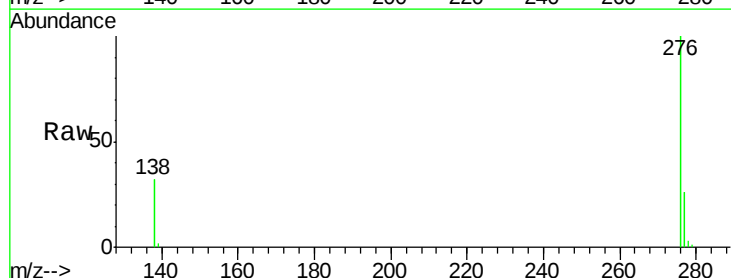
Tgt Ion:276 Resp: 43790

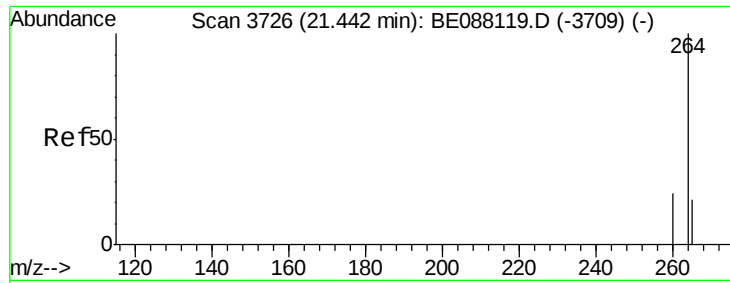
Ion Ratio Lower Upper

276 100

138 27.1 18.5 27.7

277 26.7 14.6 21.8#

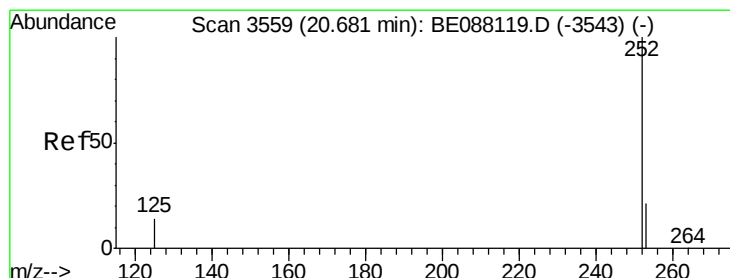
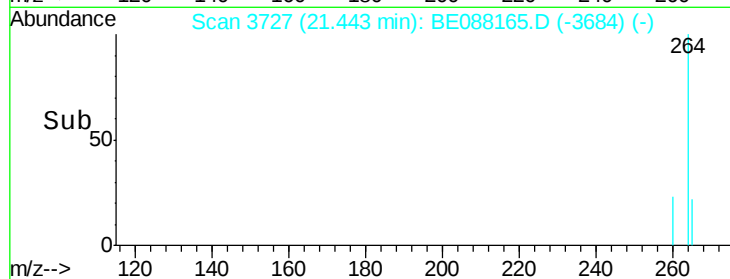
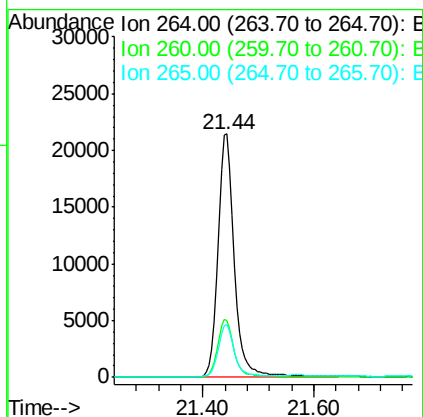
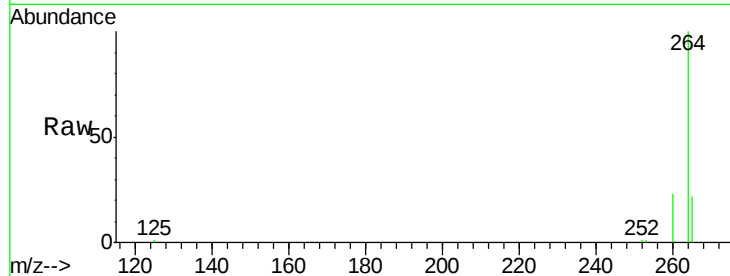




#22
 Perylene-d12
 Concen: 5.00 ng
 RT: 21.44 min Scan# 3727
 Delta R.T. 0.00 min
 Lab File: BE088165.D
 Acq: 22 Oct 2014 5:14

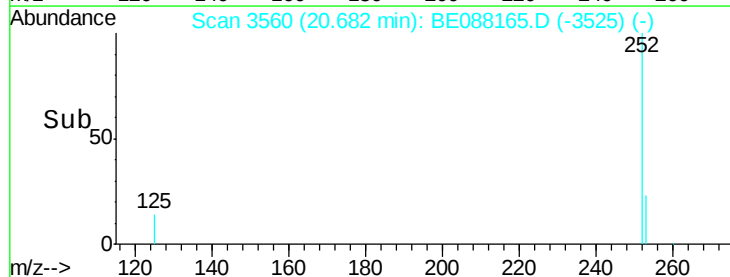
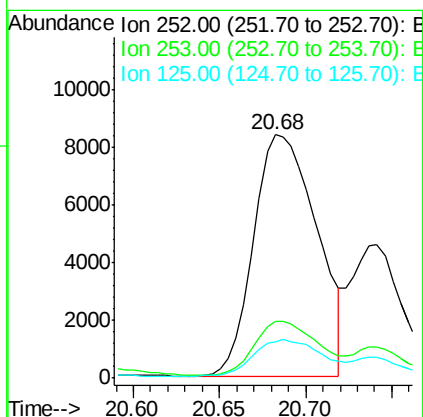
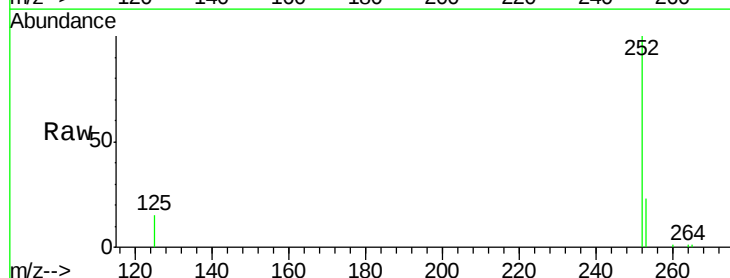
Instrument :
 BNA_E
 ClientSampleId :
 YS19-SS04-1014DL

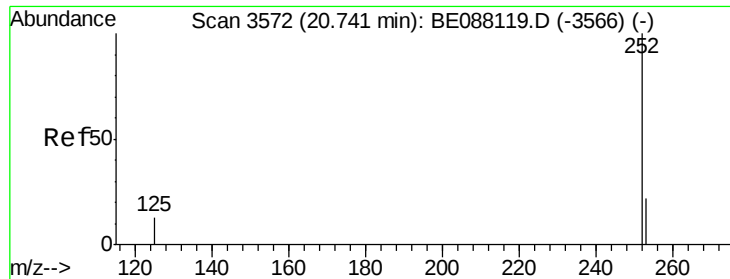
Tgt Ion: 264 Resp: 42932
 Ion Ratio Lower Upper
 264 100
 260 23.5 19.0 28.4
 265 22.0 17.2 25.8



#23
 Benzo(b)fluoranthene
 Concen: 2.08 ng
 RT: 20.68 min Scan# 3560
 Delta R.T. 0.00 min
 Lab File: BE088165.D
 Acq: 22 Oct 2014 5:14

Tgt Ion: 252 Resp: 21226
 Ion Ratio Lower Upper
 252 100
 253 23.3 17.4 26.0
 125 15.1 11.8 17.8





#24

Benzo(k)fluoranthene

Concen: 0.86 ng

RT: 20.74 min Scan# 3573

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

Instrument :

BNA_E

ClientSampleId :

YS19-SS04-1014DL

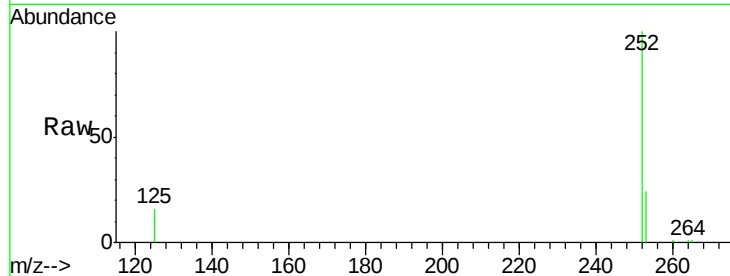
Tgt Ion:252 Resp: 9388

Ion Ratio Lower Upper

252 100

253 23.7 17.6 26.4

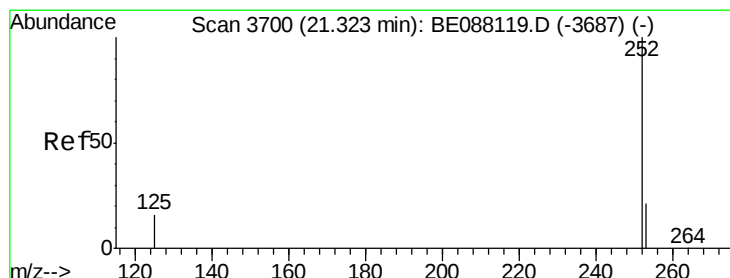
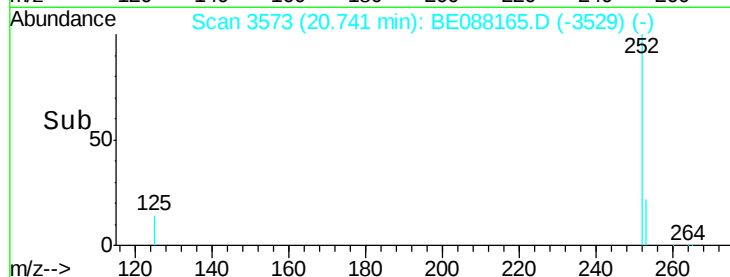
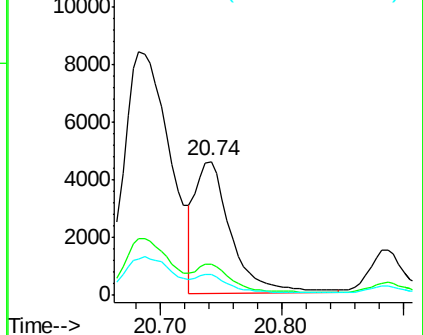
125 15.6 11.5 17.3



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: 1.65 ng

RT: 21.32 min Scan# 3701

Delta R.T. 0.00 min

Lab File: BE088165.D

Acq: 22 Oct 2014 5:14

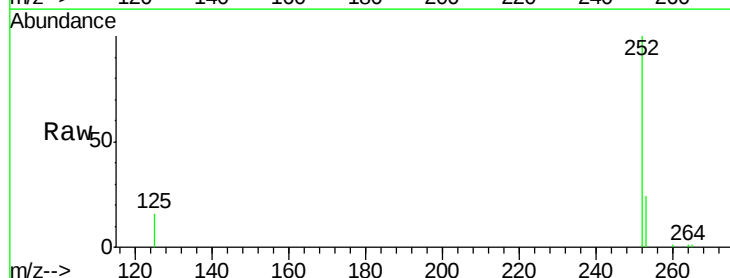
Tgt Ion:252 Resp: 15528

Ion Ratio Lower Upper

252 100

253 23.9 17.5 26.3

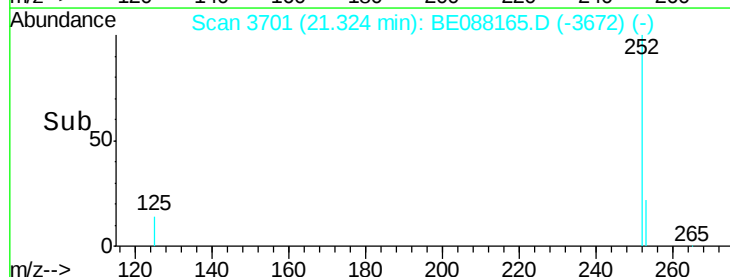
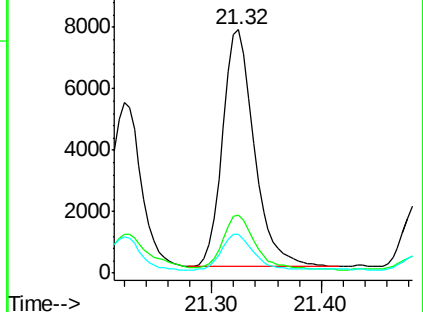
125 15.9 13.0 19.6



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



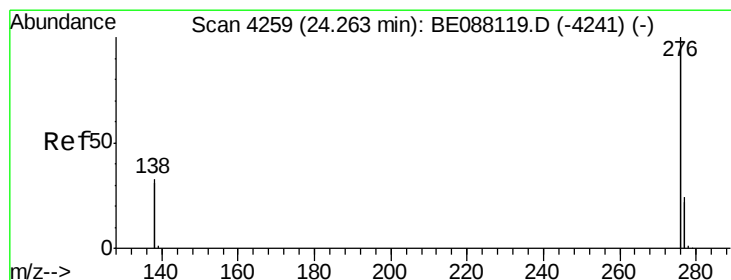
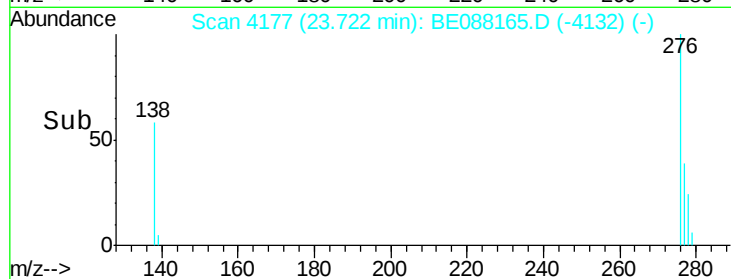
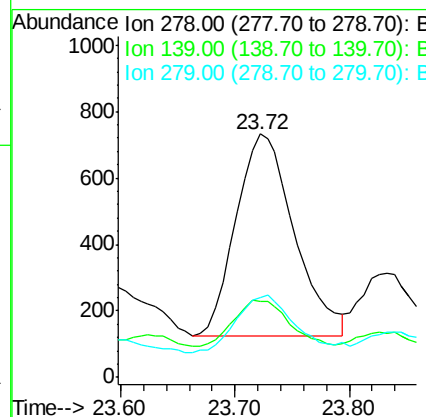
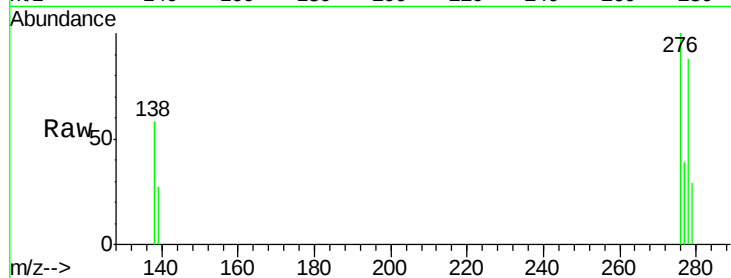


#26
Dibenzo(a,h)anthracene
Concen: 0.23 ng
RT: 23.72 min Scan# 4177
Delta R.T. -0.01 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

Instrument :
BNA_E
ClientSampleId :
YS19-SS04-1014DL

Tgt Ion: 278 Resp: 2147

Ion	Ratio	Lower	Upper
278	100		
139	31.0	20.9	31.3
279	33.0	19.8	29.8#



#27
Benzo(g,h,i)perylene
Concen: 1.08 ng
RT: 24.26 min Scan# 4260
Delta R.T. -0.00 min
Lab File: BE088165.D
Acq: 22 Oct 2014 5:14

Tgt Ion: 276 Resp: 43915

Ion	Ratio	Lower	Upper
276	100		
277	25.3	19.2	28.8
138	33.6	26.6	40.0

