

Data Path : Z:\HPCHEM1\BNA E\DATA\BE072215\  
 Data File : BE090203.D  
 Acq On : 21 Jul 2015 17:16  
 Operator : TP/IZ  
 Sample : SST0.118  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :

Quant Time: Jul 22 03:05:55 2015  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE072215.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 22 03:03:48 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.60  | 152  | 704      | 0.40 | ng/ul | -0.01    |
| 2) Naphthalene-d8         | 10.36 | 136  | 3306     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.21 | 164  | 1842     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 16.94 | 188  | 5103     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.11 | 240  | 2948     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.43 | 264  | 2076     | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 11.95 | 152  | 511      | 0.10 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 18.98 | 212  | 1350     | 0.09 | ng/ul | 0.00     |

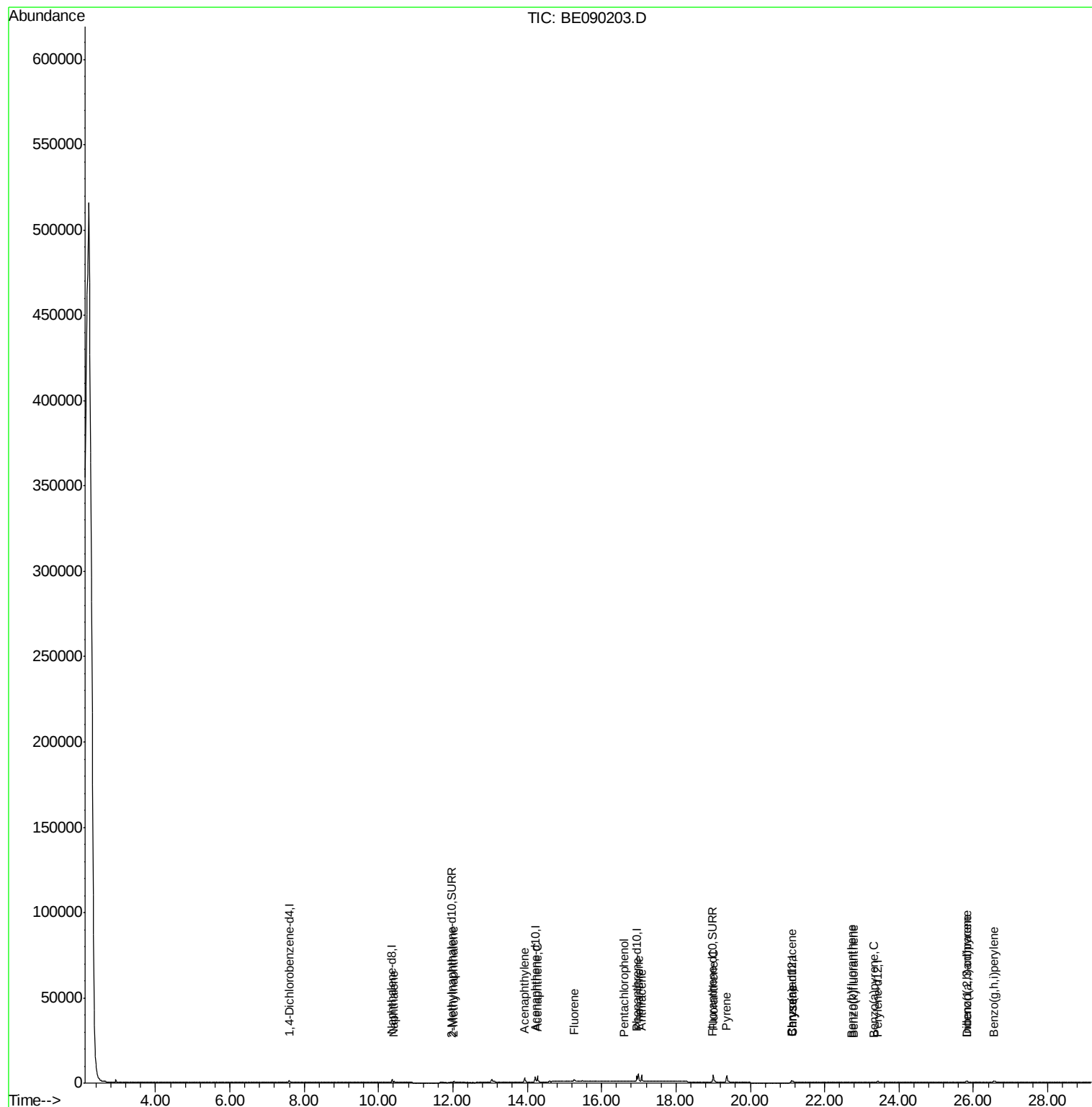
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Ovalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.41 | 128  | 929      | 0.11 | ng/ul# | 85     |
| 5) 2-Methylnaphthalene     | 12.03 | 142  | 608      | 0.10 | ng/ul  | 95     |
| 7) Acenaphthylene          | 13.93 | 152  | 3975     | 0.10 | ng/ul# | 90     |
| 8) Acenaphthene            | 14.27 | 153  | 2975     | 0.11 | ng/ul  | 98     |
| 9) Fluorene                | 15.26 | 166  | 951      | 0.12 | ng/ul# | 97     |
| 11) Pentachlorophenol      | 16.61 | 266  | 23       | 0.05 | ng/ul# | 47     |
| 12) Phenanthrene           | 16.99 | 178  | 6203     | 0.11 | ng/ul# | 93     |
| 13) Anthracene             | 17.07 | 178  | 5555     | 0.10 | ng/ul# | 91     |
| 15) Fluoranthene           | 19.00 | 202  | 6286     | 0.09 | ng/ul  | 92     |
| 17) Pyrene                 | 19.36 | 202  | 6408     | 0.16 | ng/ul# | 93     |
| 18) Benzo(a)anthracene     | 21.10 | 228  | 410      | 0.06 | ng/ul# | 81     |
| 19) Chrysene               | 21.15 | 228  | 974      | 0.10 | ng/ul# | 85     |
| 21) Benzo(b)fluoranthene   | 22.72 | 252  | 274      | 0.05 | ng/ul# | 52     |
| 22) Benzo(k)fluoranthene   | 22.77 | 252  | 225      | 0.03 | ng/ul# | 47     |
| 23) Benzo(a)pyrene         | 23.32 | 252  | 329      | 0.06 | ng/ul# | 53     |
| 24) Indeno(1,2,3-cd)pyrene | 25.81 | 276  | 928      | 0.04 | ng/ul# | 90     |
| 25) Dibenzo(a,h)anthracene | 25.83 | 278  | 162      | 0.03 | ng/ul# | 50     |
| 26) Benzo(g,h,i)perylene   | 26.54 | 276  | 1341     | 0.06 | ng/ul# | 51     |

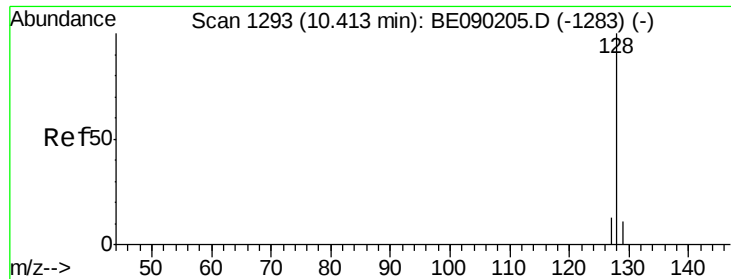
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA E\DATA\BE072215\  
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ALS Vial : 2 Sample Multiplier: 1

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Quant Time: Jul 22 03:05:55 2015  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM02.2-EPA-SIM-BE072215.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jul 22 03:03:48 2015  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.11 ng/ul

RT: 10.41 min Scan# 1292

Delta R.T. -0.01 min

Lab File: BE090203.D

Acq: 21 Jul 2015 17:16

Instrument :

BNA\_E

ClientSampleId :

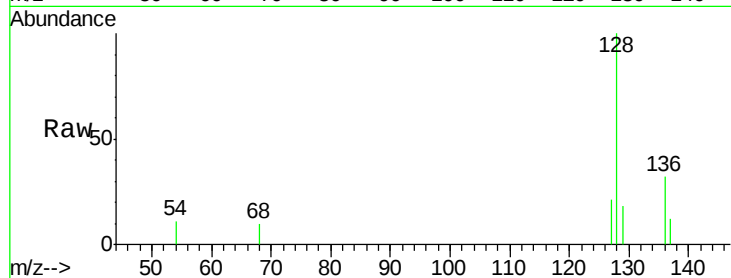
Tot Ion:128 Resp: 929

Ion Ratio Lower Upper

128 100

129 18.2 10.2 15.2#

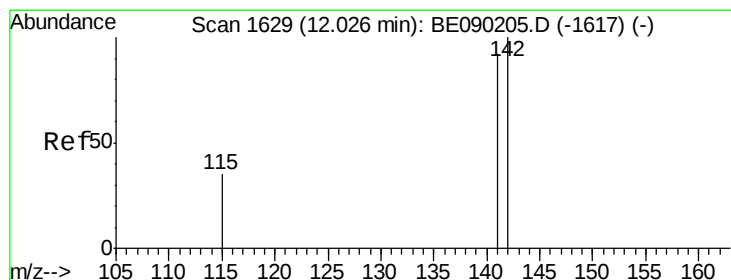
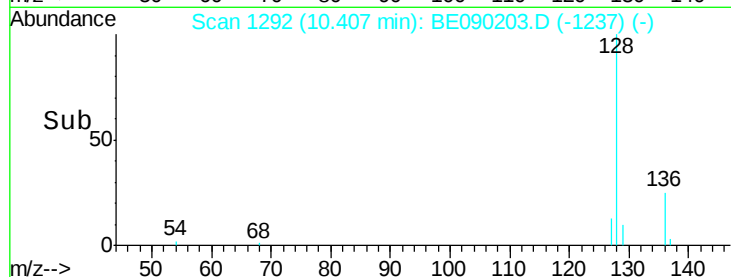
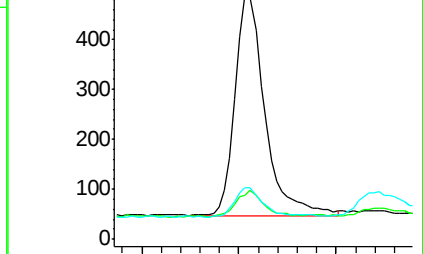
127 21.3 11.8 17.6#



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



#5

2-Methylnaphthalene

Concen: 0.10 ng/ul

RT: 12.03 min Scan# 1629

Delta R.T. 0.00 min

Lab File: BE090203.D

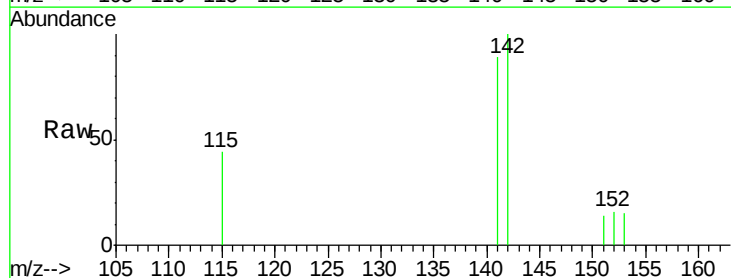
Acq: 21 Jul 2015 17:16

Tgt Ion:142 Resp: 608

Ion Ratio Lower Upper

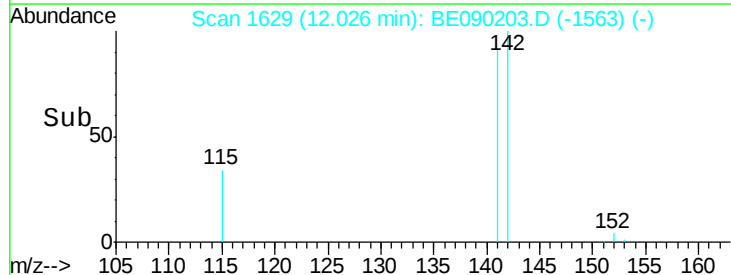
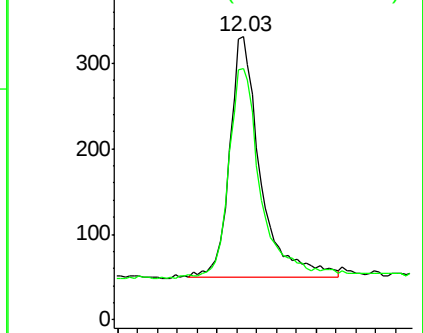
142 100

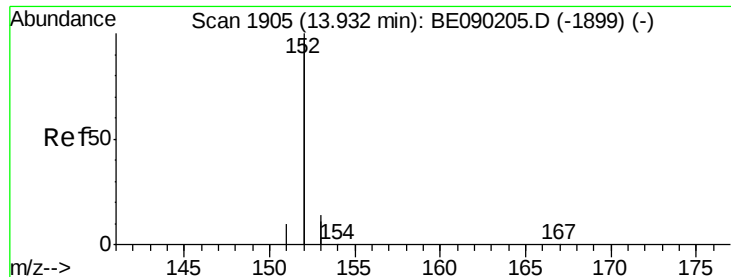
141 86.2 73.0 109.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.10 ng/ul

RT: 13.93 min Scan# 1905

Delta R.T. 0.00 min

Lab File: BE090203.D

Acq: 21 Jul 2015 17:16

Instrument :

BNA\_E

ClientSampleId :

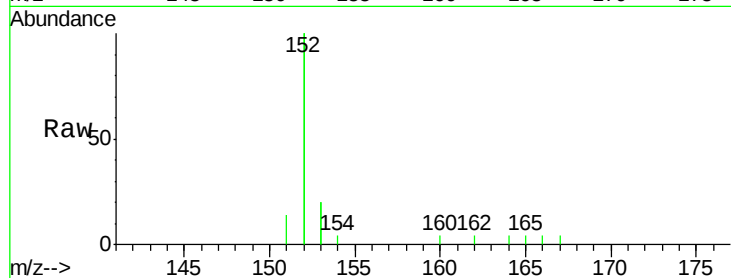
Tot Ion:152 Resp: 3975

Ion Ratio Lower Upper

152 100

151 6.8 4.2 6.4#

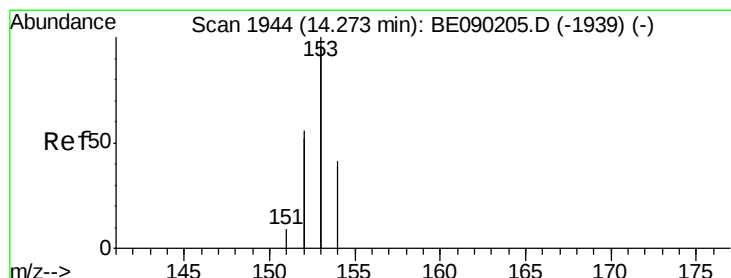
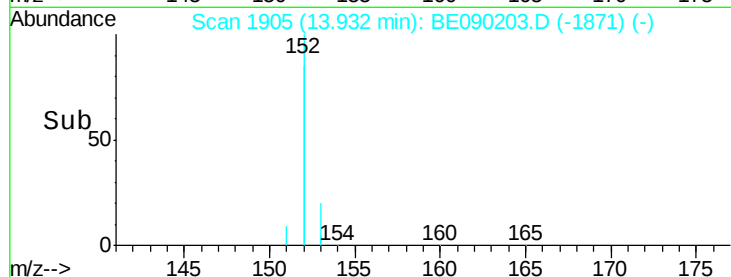
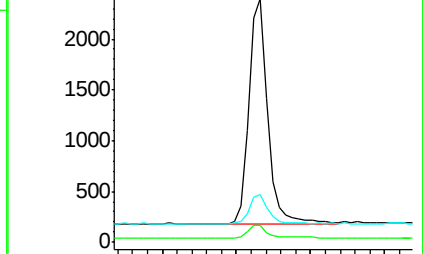
153 19.5 11.5 17.3#



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



#8

Acenaphthene

Concen: 0.11 ng/ul

RT: 14.27 min Scan# 1944

Delta R.T. 0.00 min

Lab File: BE090203.D

Acq: 21 Jul 2015 17:16

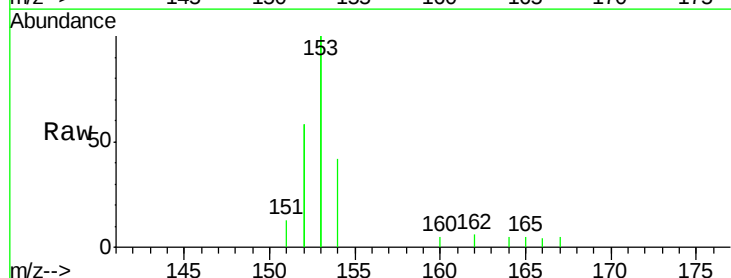
Tgt Ion:153 Resp: 2975

Ion Ratio Lower Upper

153 100

152 58.5 45.0 67.4

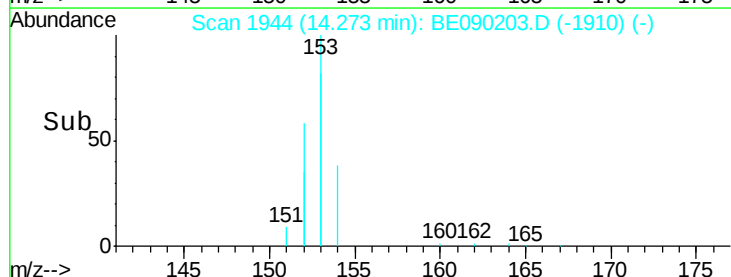
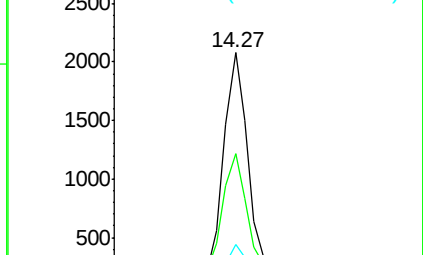
154 21.2 16.8 25.2

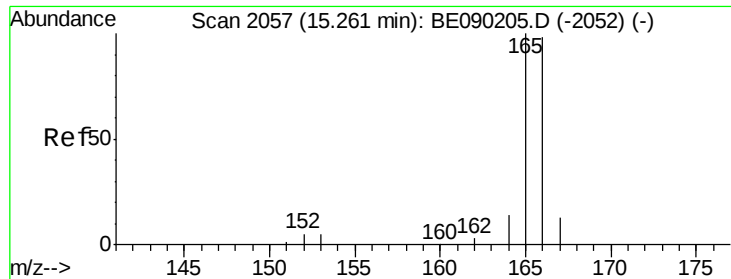


Abundance Ion 153.00 (152.70 to 153.70): E

Ion 152.00 (151.70 to 152.70): E

Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.12 ng/ul

RT: 15.26 min Scan# 2057

Delta R.T. 0.00 min

Lab File: BE090203.D

Acq: 21 Jul 2015 17:16

Instrument :

BNA\_E

ClientSampleId :

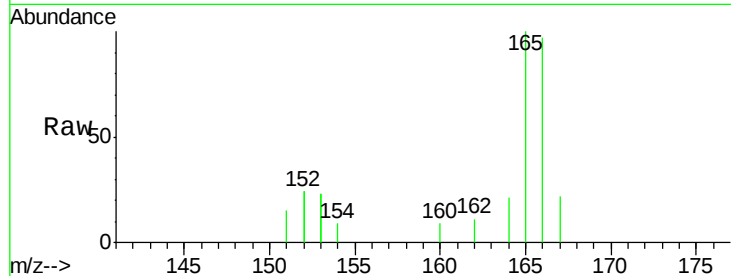
Tot Ion:166 Resp: 951

Ion Ratio Lower Upper

166 100

165 103.6 81.9 122.9

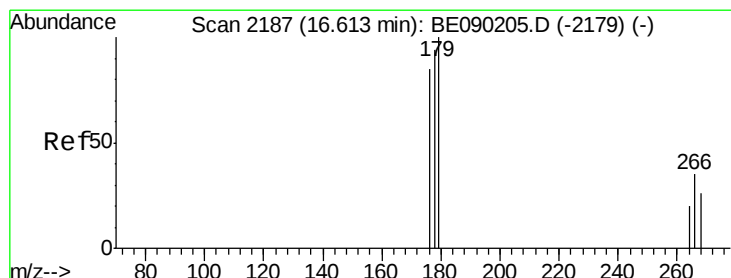
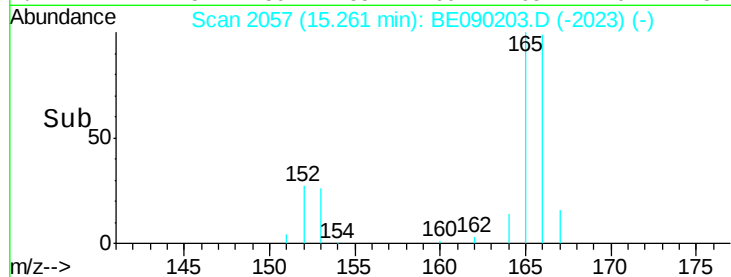
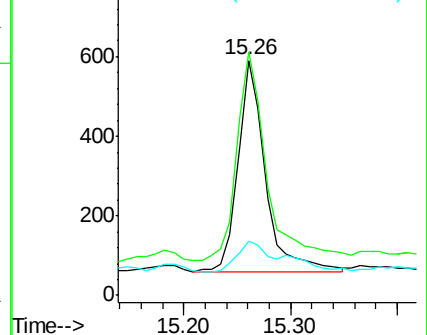
167 22.8 12.2 18.2#



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



#11

Pentachlorophenol

Concen: 0.05 ng/ul

RT: 16.61 min Scan# 2187

Delta R.T. -0.00 min

Lab File: BE090203.D

Acq: 21 Jul 2015 17:16

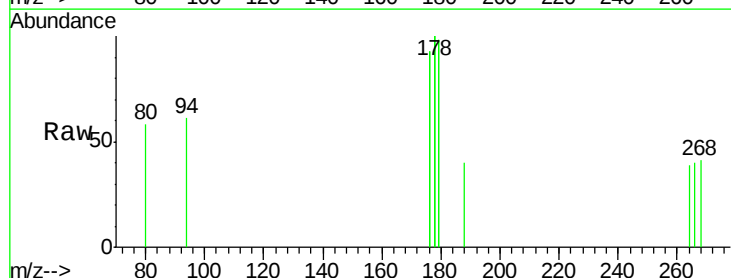
Tgt Ion:266 Resp: 23

Ion Ratio Lower Upper

266 100

264 52.2 51.6 77.4

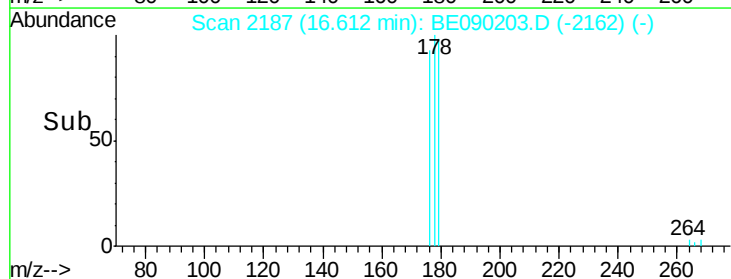
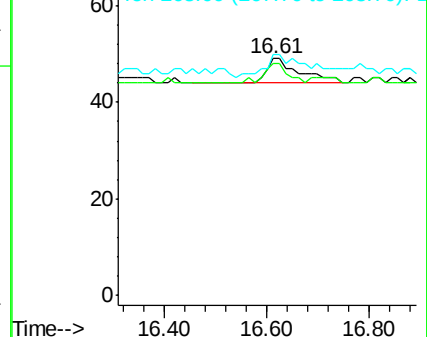
268 121.7 41.3 61.9#

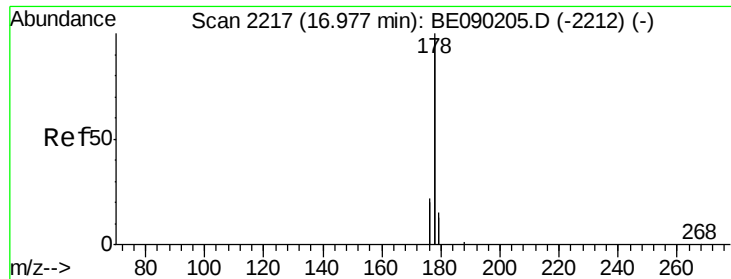


Abundance Ion 266.00 (265.70 to 266.70): E

Ion 264.00 (263.70 to 264.70): E

Ion 268.00 (267.70 to 268.70): E

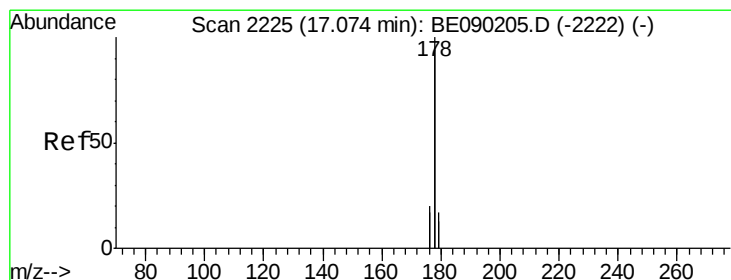
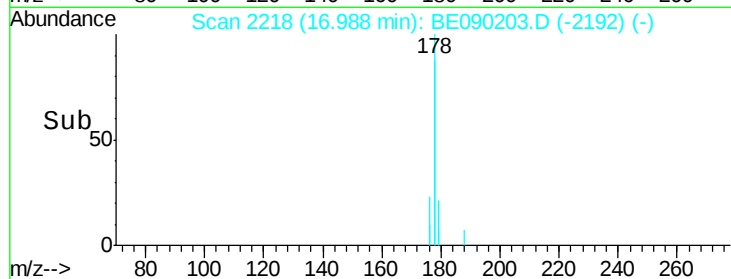
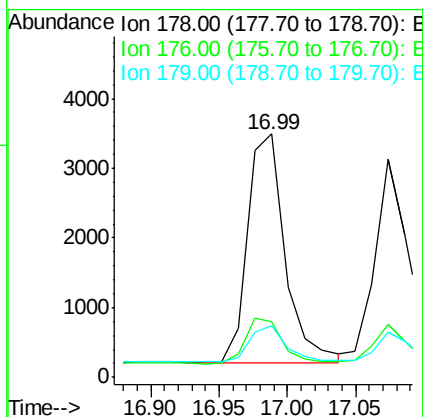
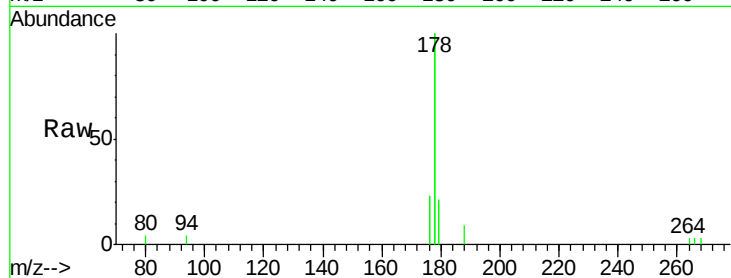




#12  
Phenanthrene  
Concen: 0.11 ng/ul  
RT: 16.99 min Scan# 2218  
Delta R.T. 0.01 min  
Lab File: BE090203.D  
Acq: 21 Jul 2015 17:16

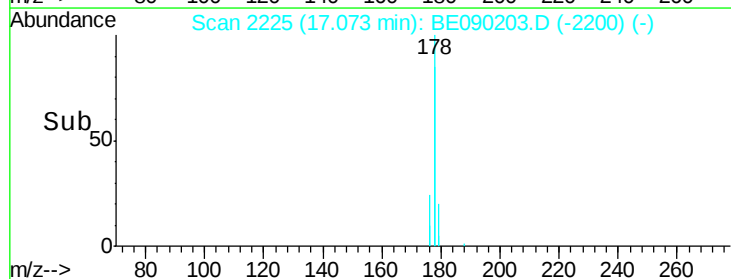
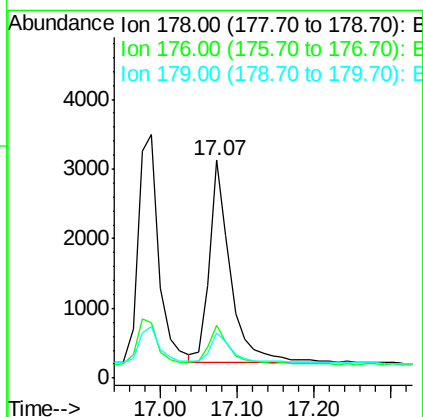
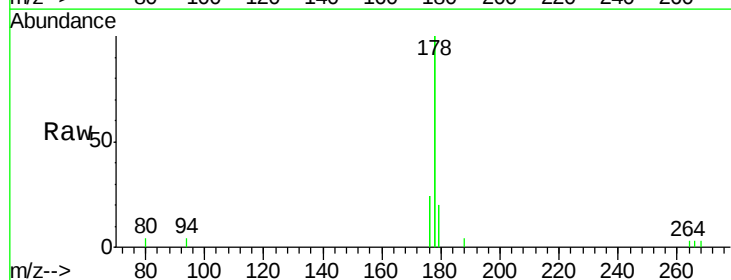
Instrument :  
BNA\_E  
ClientSampleId :

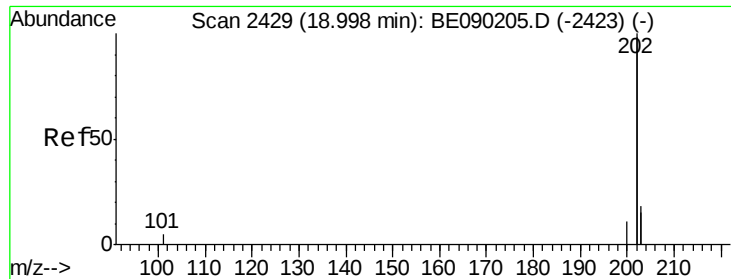
Tot Ion:178 Resp: 6203  
Ion Ratio Lower Upper  
178 100  
176 22.6 17.6 26.4  
179 21.4 12.2 18.4#



#13  
Anthracene  
Concen: 0.10 ng/ul  
RT: 17.07 min Scan# 2225  
Delta R.T. -0.00 min  
Lab File: BE090203.D  
Acq: 21 Jul 2015 17:16

Tgt Ion:178 Resp: 5555  
Ion Ratio Lower Upper  
178 100  
176 24.3 15.9 23.9#  
179 20.5 13.3 19.9#

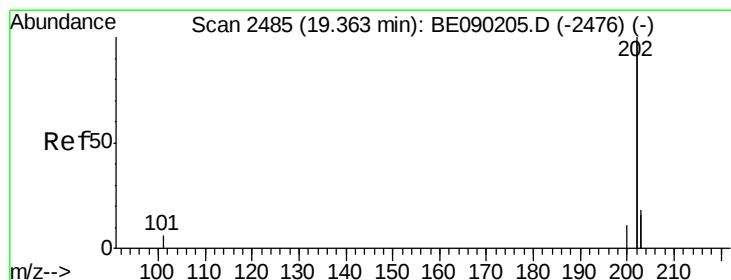
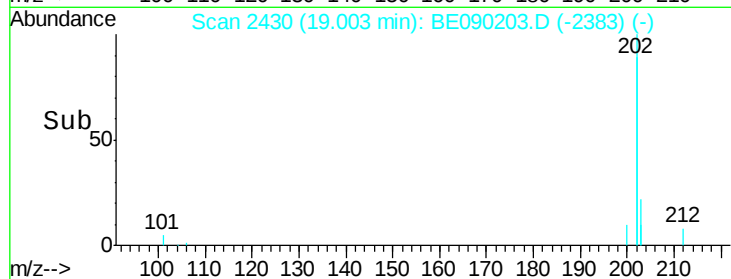
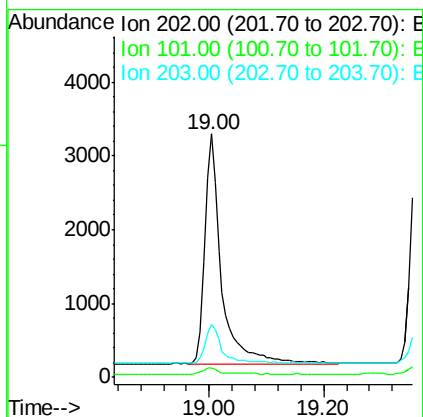
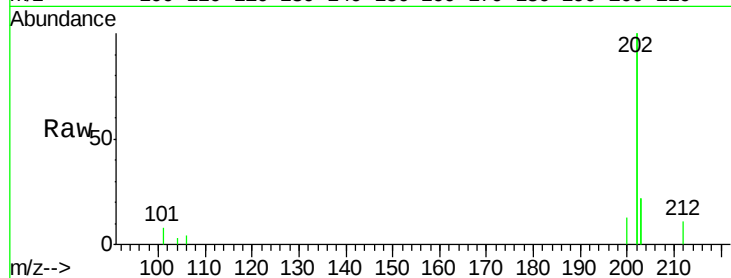




#15  
**Fluoranthene**  
 Concen: 0.09 ng/ul  
 RT: 19.00 min Scan# 2430  
 Delta R.T. 0.01 min  
 Lab File: BE090203.D  
 Acq: 21 Jul 2015 17:16

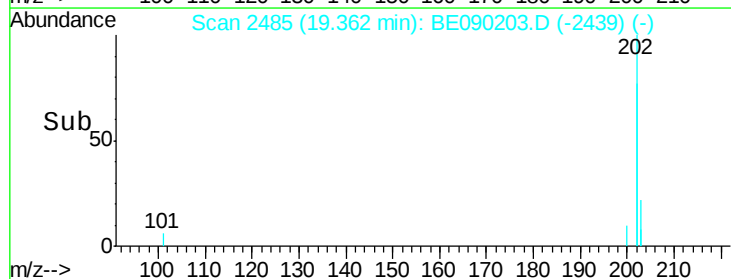
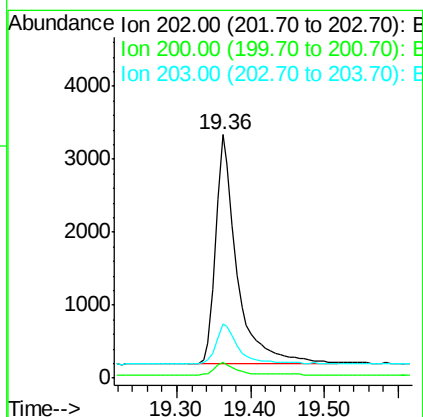
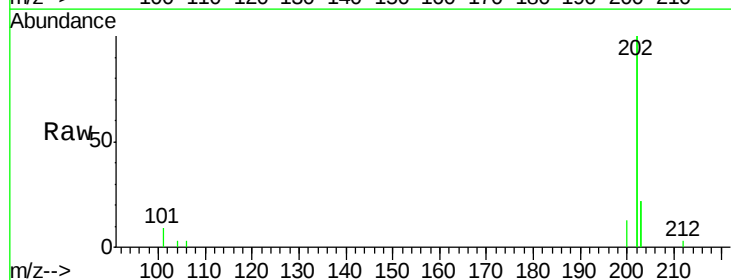
Instrument :  
 BNA\_E  
 ClientSampleId :

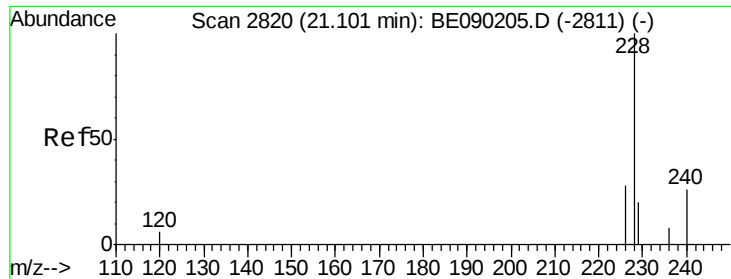
Tot Ion:202 Resp: 6286  
 Ion Ratio Lower Upper  
 202 100  
 101 3.9 0.0 23.0  
 203 21.7 0.0 37.8



#17  
**Pyrene**  
 Concen: 0.16 ng/ul  
 RT: 19.36 min Scan# 2485  
 Delta R.T. -0.00 min  
 Lab File: BE090203.D  
 Acq: 21 Jul 2015 17:16

Tgt Ion:202 Resp: 6408  
 Ion Ratio Lower Upper  
 202 100  
 200 6.4 4.4 6.6  
 203 22.1 14.6 22.0#





#18

Benzo(a)anthracene

Concen: 0.06 ng/ul

RT: 21.10 min Scan# 2820

Delta R.T. -0.00 min

Lab File: BE090203.D

Acq: 21 Jul 2015 17:16

Instrument :

BNA\_E

ClientSampled :

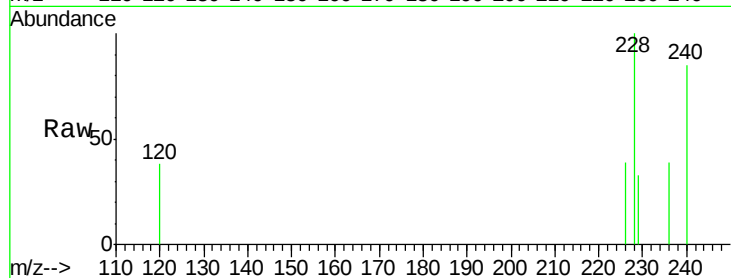
Tot Ion:228 Resp: 410

Ion Ratio Lower Upper

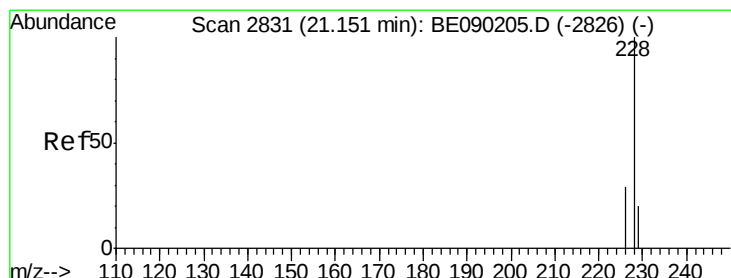
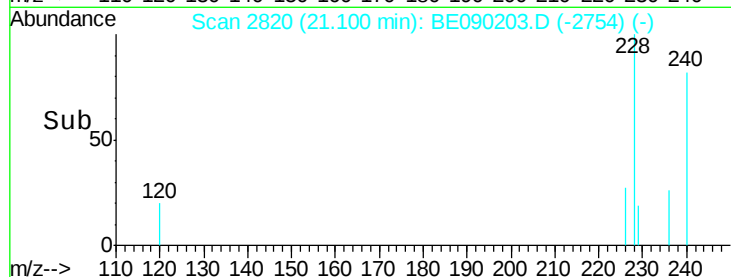
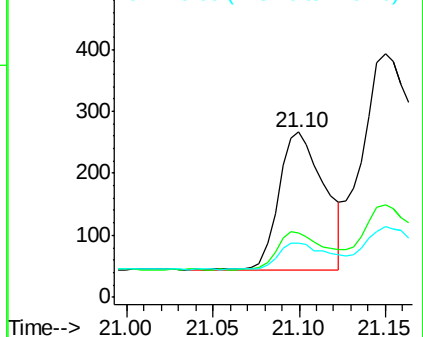
228 100

226 39.1 24.1 36.1#

229 32.7 17.9 26.9#



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



#19

Chrysene

Concen: 0.10 ng/ul

RT: 21.15 min Scan# 2831

Delta R.T. -0.00 min

Lab File: BE090203.D

Acq: 21 Jul 2015 17:16

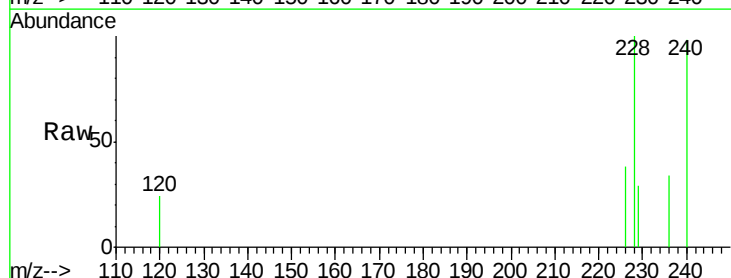
Tgt Ion:228 Resp: 974

Ion Ratio Lower Upper

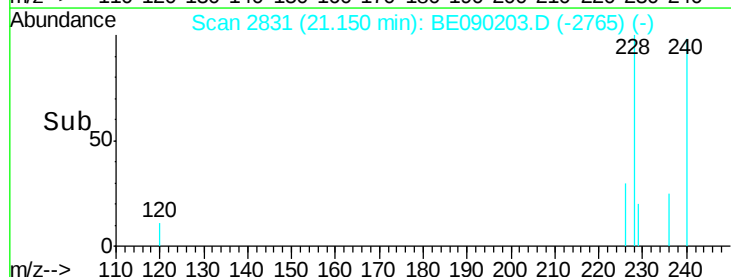
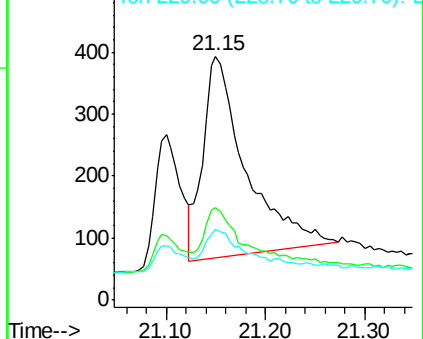
228 100

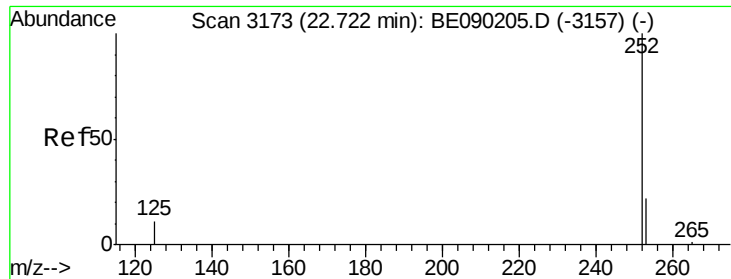
226 38.2 24.6 36.8#

229 29.3 17.4 26.2#



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 226.00 (225.70 to 226.70): E  
Ion 229.00 (228.70 to 229.70): E





#21

Benzo(b)fluoranthene

Concen: 0.05 ng/ul

RT: 22.72 min Scan# 3173

Delta R.T. -0.00 min

Lab File: BE090203.D

Acq: 21 Jul 2015 17:16

Instrument :

BNA\_E

ClientSampleId :

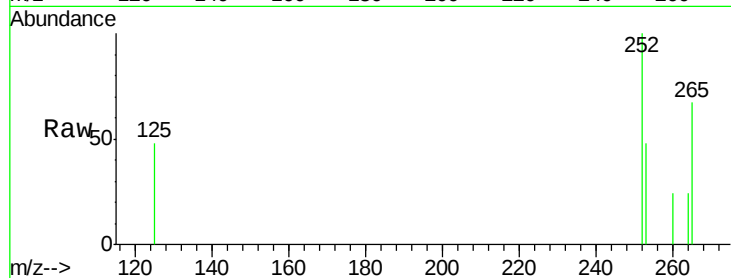
Tot Ion:252 Resp: 274

Ion Ratio Lower Upper

252 100

253 47.6 0.0 56.8

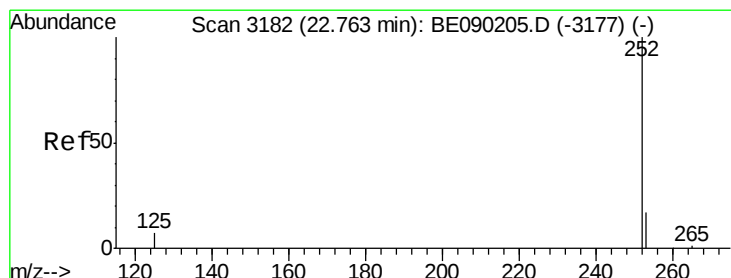
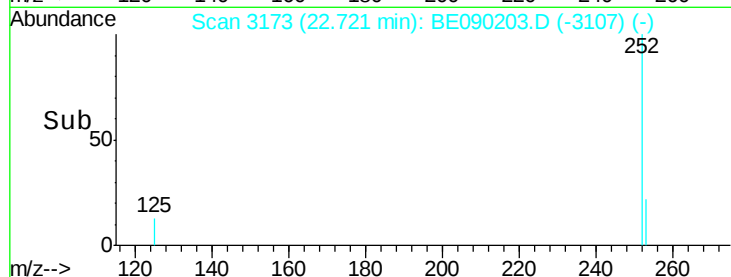
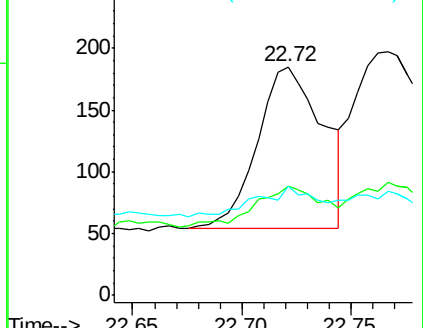
125 47.6 0.0 37.0#



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



#22

Benzo(k)fluoranthene

Concen: 0.03 ng/ul

RT: 22.77 min Scan# 3183

Delta R.T. 0.00 min

Lab File: BE090203.D

Acq: 21 Jul 2015 17:16

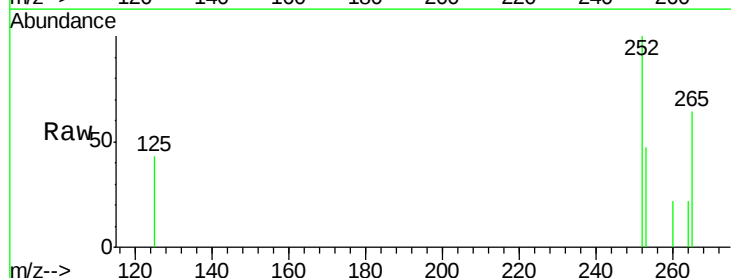
Tgt Ion:252 Resp: 225

Ion Ratio Lower Upper

252 100

253 46.7 19.5 29.3#

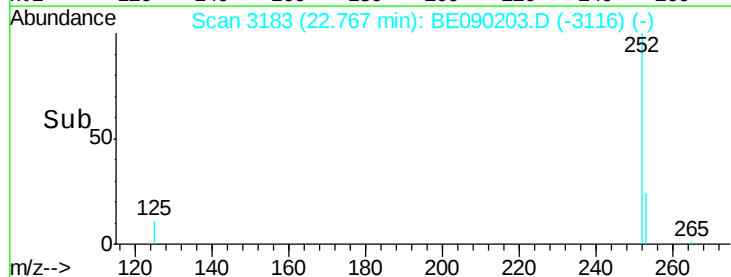
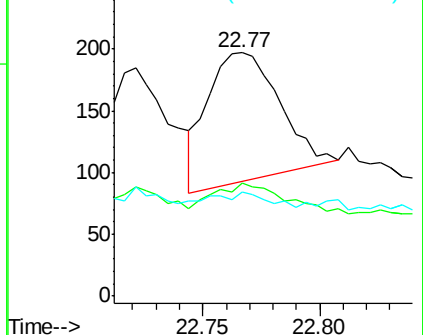
125 42.6 11.9 17.9#

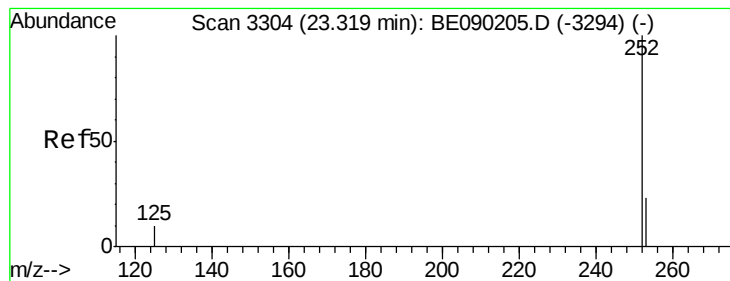


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.06 ng/ul

RT: 23.32 min Scan# 3305

Delta R.T. 0.00 min

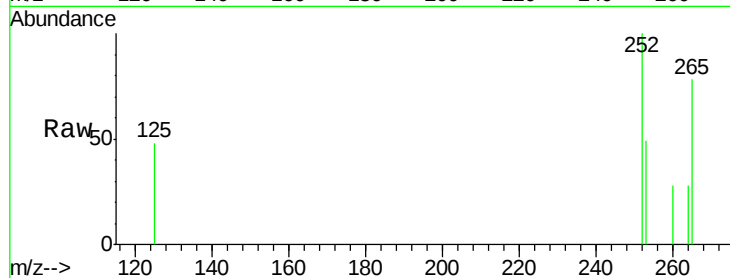
Lab File: BE090203.D

Acq: 21 Jul 2015 17:16

Instrument :

BNA\_E

ClientSampled :



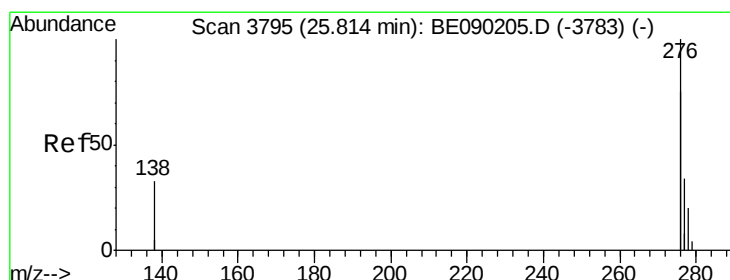
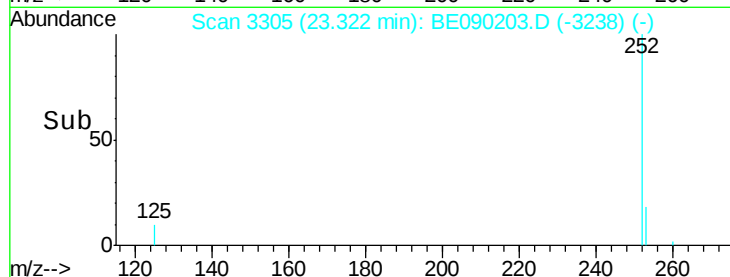
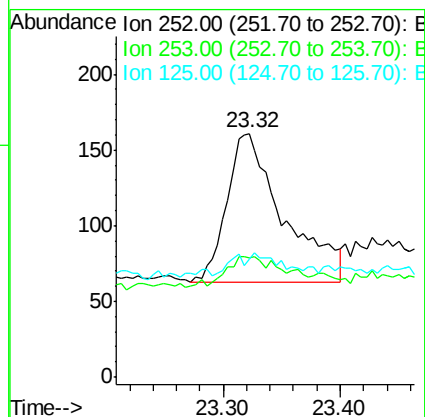
Tot Ion:252 Resp: 329

Ion Ratio Lower Upper

252 100

253 49.1 23.7 35.5#

125 48.4 15.4 23.2#



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.04 ng/ul

RT: 25.81 min Scan# 3795

Delta R.T. -0.00 min

Lab File: BE090203.D

Acq: 21 Jul 2015 17:16

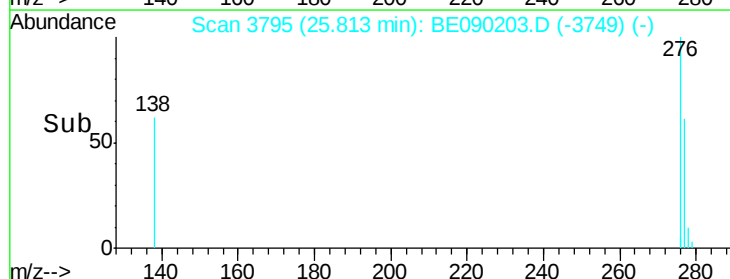
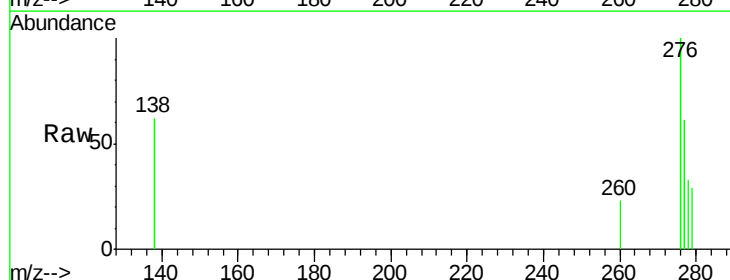
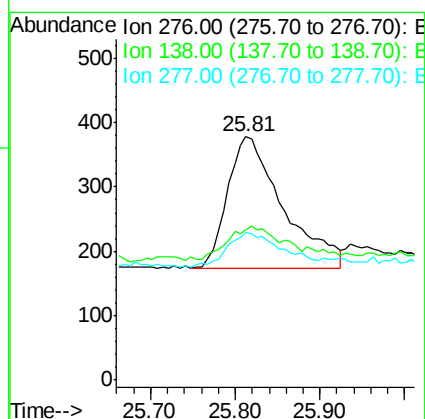
Tgt Ion:276 Resp: 928

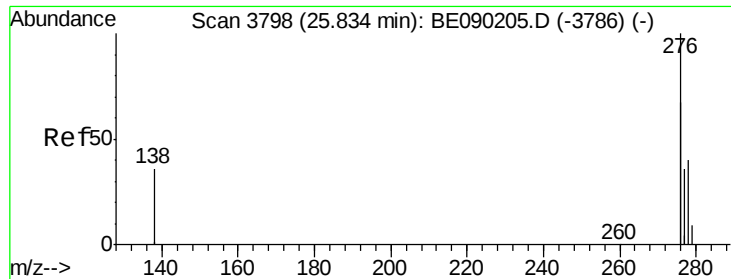
Ion Ratio Lower Upper

276 100

138 25.4 16.9 25.3#

277 26.2 17.0 25.4#

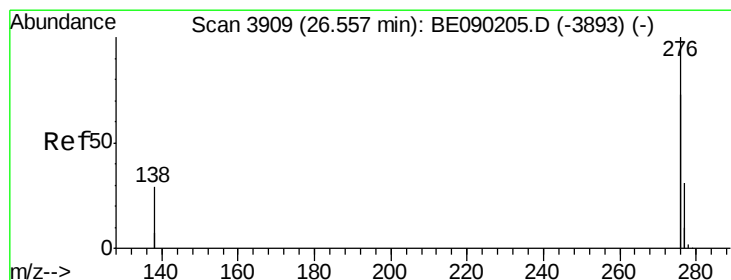
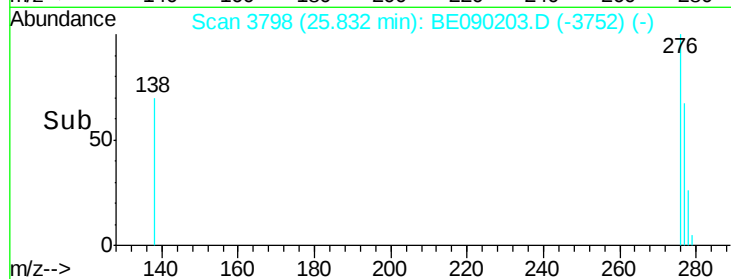
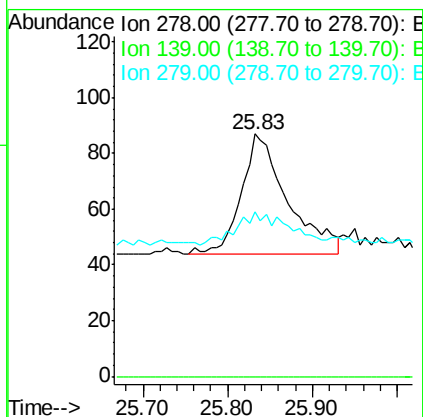
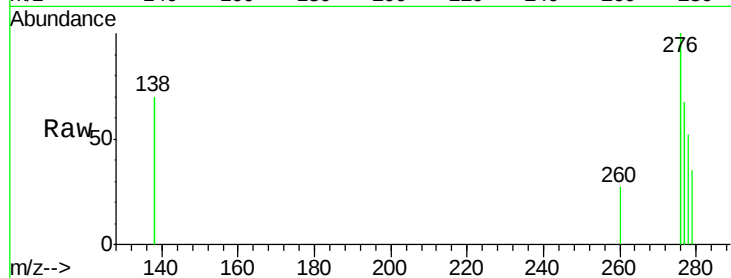




#25  
Dibenzo(a,h)anthracene  
Concen: 0.03 ng/ul  
RT: 25.83 min Scan# 3798  
Delta R.T. -0.00 min  
Lab File: BE090203.D  
Acq: 21 Jul 2015 17:16

Instrument :  
BNA\_E  
ClientSampleId :

Tot Ion:278 Resp: 162  
Ion Ratio Lower Upper  
278 100  
139 0.0 0.0 0.0  
279 67.8 30.1 45.1#



#26  
Benzo(g,h,i)perylene  
Concen: 0.06 ng/ul  
RT: 26.54 min Scan# 3907  
Delta R.T. -0.01 min  
Lab File: BE090203.D  
Acq: 21 Jul 2015 17:16

Tgt Ion:276 Resp: 1341  
Ion Ratio Lower Upper  
276 100  
277 57.1 24.6 36.8#  
138 56.6 23.5 35.3#

