

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE071415\  
 Data File : BE090099.D  
 Acq On : 14 Jul 2015 15:30  
 Operator : TP/IZ  
 Sample : SST0.202  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SST0.202

Quant Time: Jul 15 00:45:44 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE071415.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 15 00:44:52 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.62  | 152  | 1463     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.37 | 136  | 6652     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.22 | 164  | 3888     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 16.95 | 188  | 8726     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.12 | 240  | 8082     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.44 | 264  | 5850     | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 11.96 | 152  | 2180     | 0.21 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 18.98 | 212  | 4990     | 0.21 | ng/ul | 0.00     |

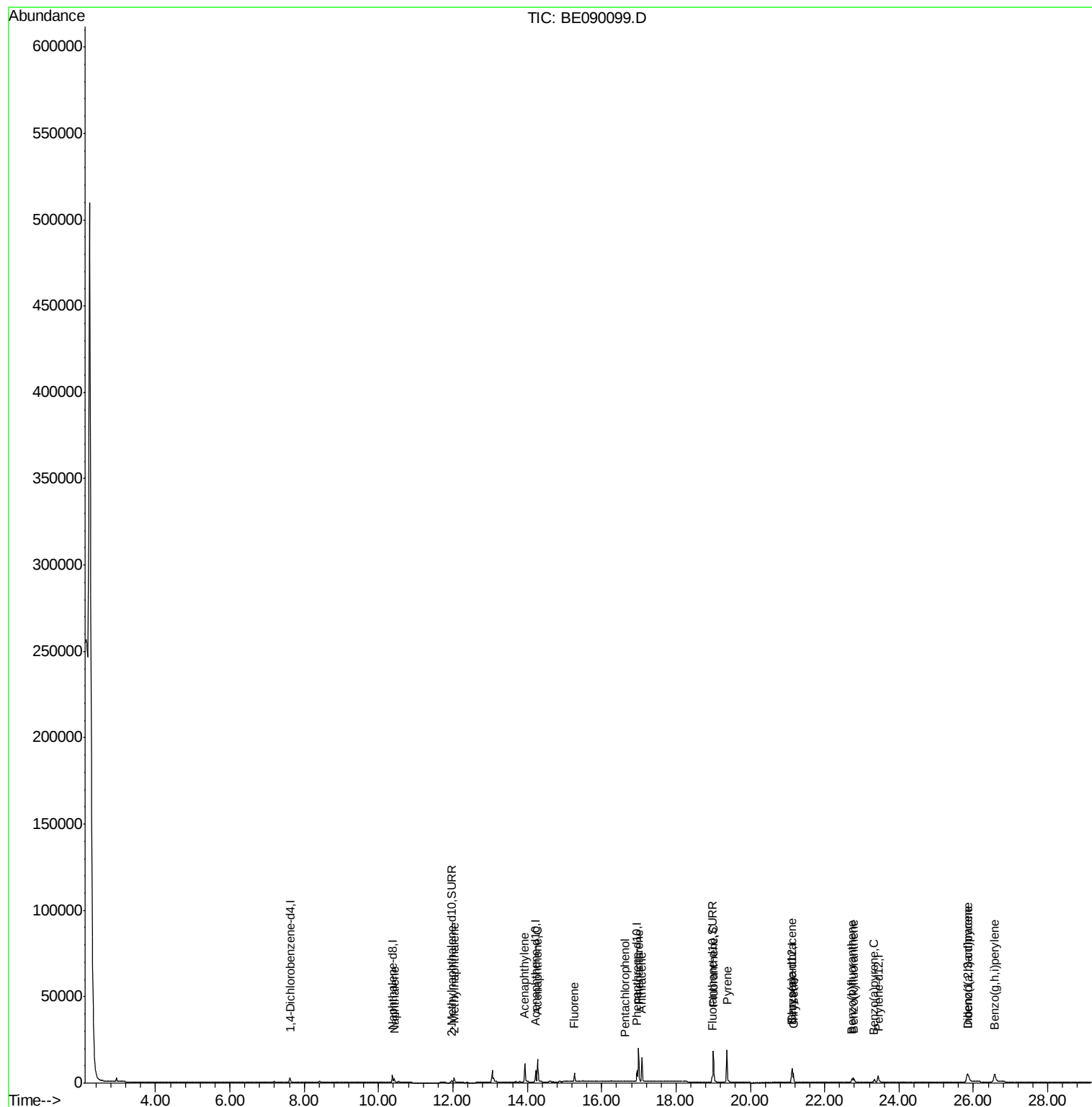
| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.42 | 128  | 3712     | 0.19 | ng/ul  | 98     |
| 5) 2-Methylnaphthalene     | 12.04 | 142  | 2449     | 0.19 | ng/ul  | 100    |
| 7) Acenaphthylene          | 13.93 | 152  | 16236    | 0.47 | ng/ul  | 100    |
| 8) Acenaphthene            | 14.28 | 153  | 11522    | 0.47 | ng/ul  | 98     |
| 9) Fluorene                | 15.27 | 166  | 3407     | 0.19 | ng/ul  | 98     |
| 11) Pentachlorophenol      | 16.62 | 266  | 141      | 0.07 | ng/ul  | 96     |
| 12) Phenanthrene           | 16.99 | 178  | 21695    | 0.48 | ng/ul  | 99     |
| 13) Anthracene             | 17.09 | 178  | 20570    | 0.47 | ng/ul  | 98     |
| 15) Fluoranthene           | 19.01 | 202  | 22893    | 0.46 | ng/ul  | 96     |
| 17) Pyrene                 | 19.37 | 202  | 23272    | 0.45 | ng/ul  | 99     |
| 18) Benzo(a)anthracene     | 21.10 | 228  | 4231     | 0.14 | ng/ul  | 99     |
| 19) Chrysene               | 21.15 | 228  | 5586     | 0.18 | ng/ul  | 98     |
| 21) Benzo(b)fluoranthene   | 22.73 | 252  | 3292     | 0.13 | ng/ul  | 95     |
| 22) Benzo(k)fluoranthene   | 22.78 | 252  | 4730     | 0.21 | ng/ul# | 94     |
| 23) Benzo(a)pyrene         | 23.33 | 252  | 3295     | 0.15 | ng/ul# | 92     |
| 24) Indeno(1,2,3-cd)pyrene | 25.85 | 276  | 14666    | 0.43 | ng/ul  | 99     |
| 25) Dibenzo(a,h)anthracene | 25.86 | 278  | 2628     | 0.14 | ng/ul  | 96     |
| 26) Benzo(g,h,i)perylene   | 26.58 | 276  | 13528    | 0.45 | ng/ul  | 96     |

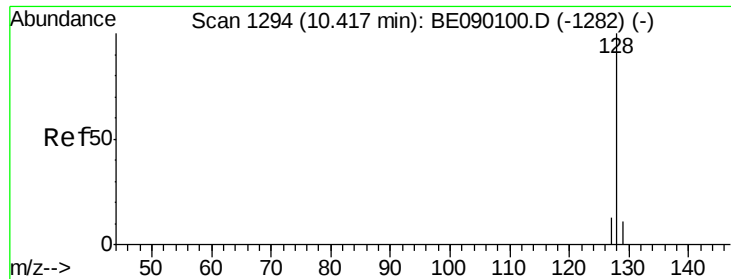
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE071415\  
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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
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SSTD0.202

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QLast Update : Wed Jul 15 00:44:52 2015  
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#3

Naphthalene

Concen: 0.19 ng/ul

RT: 10.42 min Scan# 1295

Delta R.T. 0.01 min

Lab File: BE090099.D

Acq: 14 Jul 2015 15:30

Instrument :

BNA\_E

ClientSampleId :

SSTD0.202

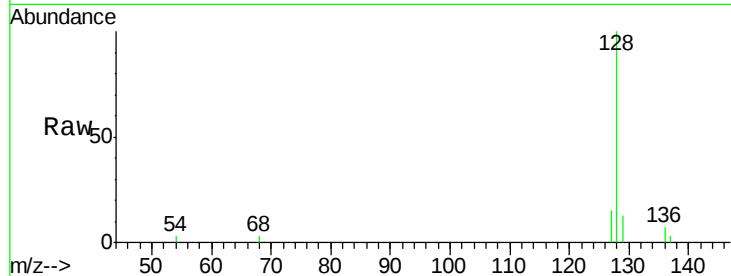
Tgt Ion:128 Resp: 3712

Ion Ratio Lower Upper

128 100

129 12.9 9.4 14.2

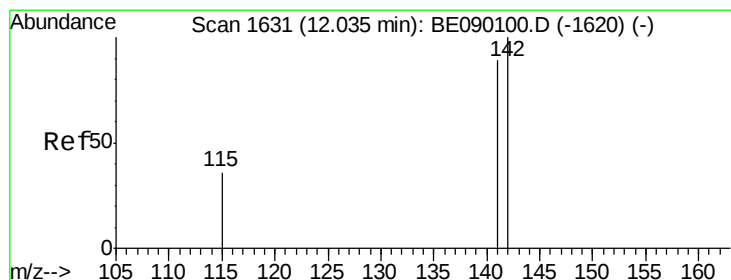
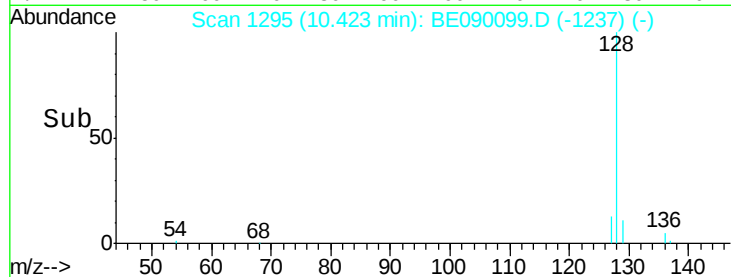
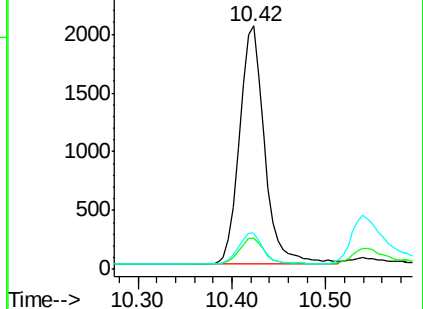
127 14.7 11.5 17.3



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: 0.19 ng/ul

RT: 12.04 min Scan# 1631

Delta R.T. 0.00 min

Lab File: BE090099.D

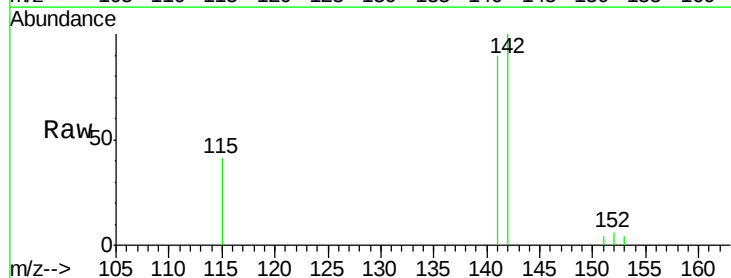
Acq: 14 Jul 2015 15:30

Tgt Ion:142 Resp: 2449

Ion Ratio Lower Upper

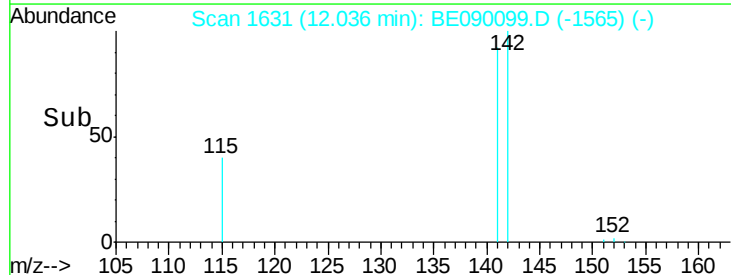
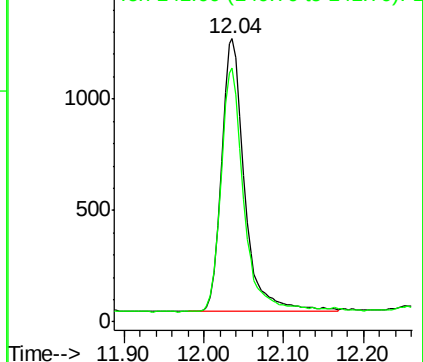
142 100

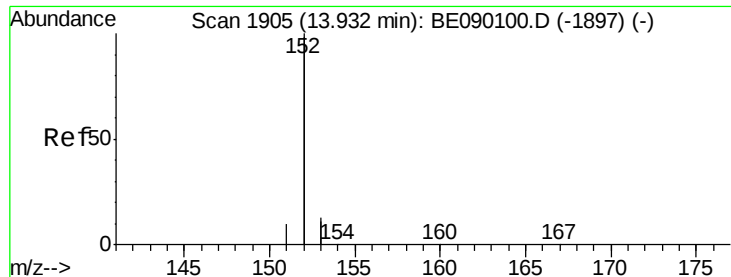
141 88.9 71.0 106.6



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.47 ng/ul

RT: 13.93 min Scan# 1905

Delta R.T. 0.00 min

Lab File: BE090099.D

Acq: 14 Jul 2015 15:30

Instrument :

BNA\_E

ClientSampleId :

SSTD0.202

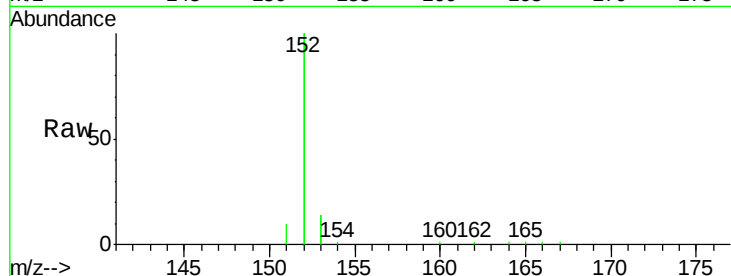
Tgt Ion:152 Resp: 16236

Ion Ratio Lower Upper

152 100

151 5.2 4.1 6.1

153 13.6 10.7 16.1



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

12000

10000

8000

6000

4000

2000

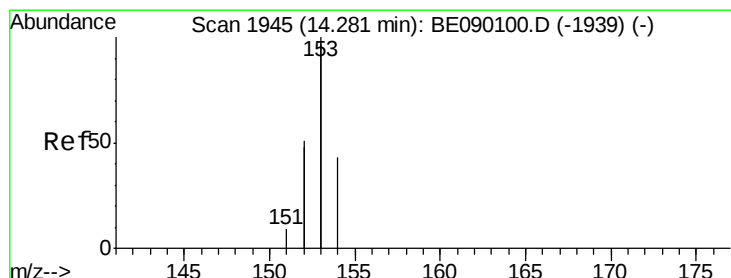
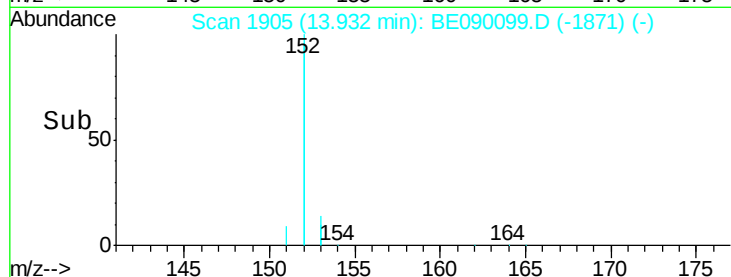
0

13.80

13.93

14.00

Time-->



#8

Acenaphthene

Concen: 0.47 ng/ul

RT: 14.28 min Scan# 1945

Delta R.T. 0.00 min

Lab File: BE090099.D

Acq: 14 Jul 2015 15:30

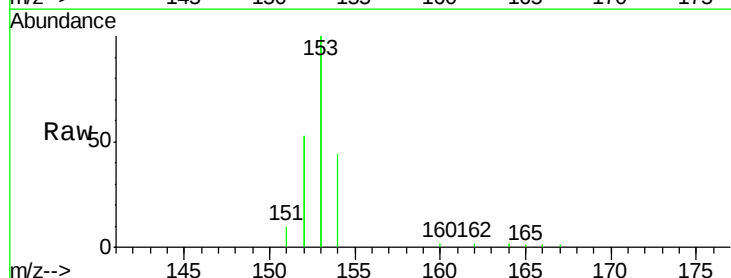
Tgt Ion:153 Resp: 11522

Ion Ratio Lower Upper

153 100

152 53.1 40.6 60.8

154 21.8 17.5 26.3



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

10000

8000

6000

4000

2000

0

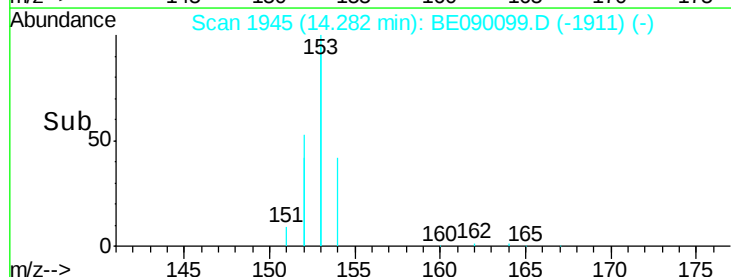
14.20

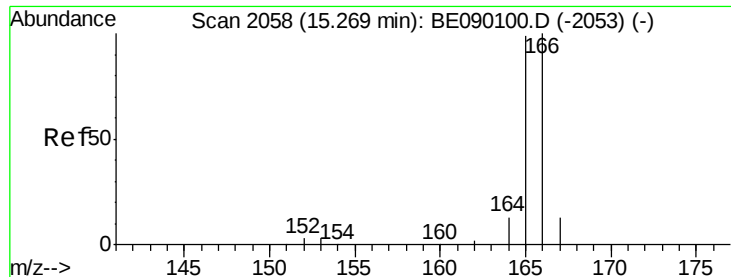
14.28

14.30

14.40

Time-->

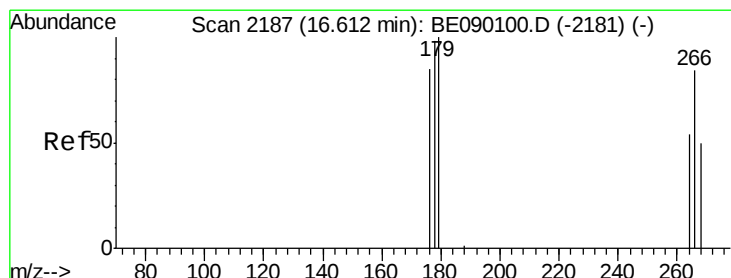
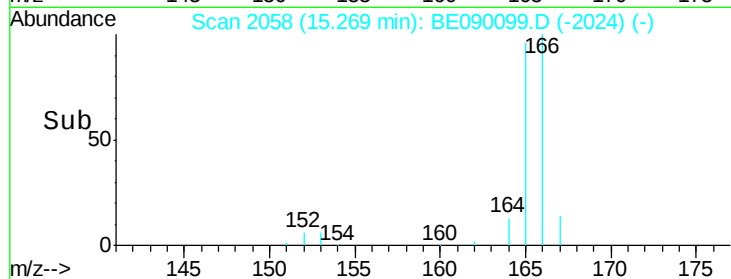
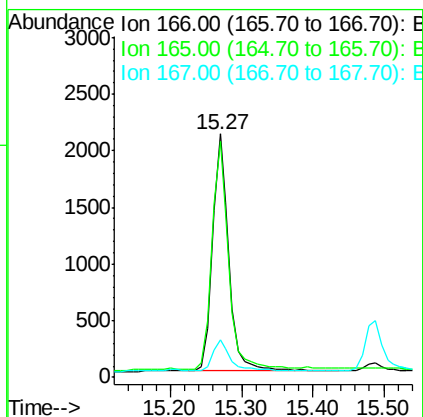
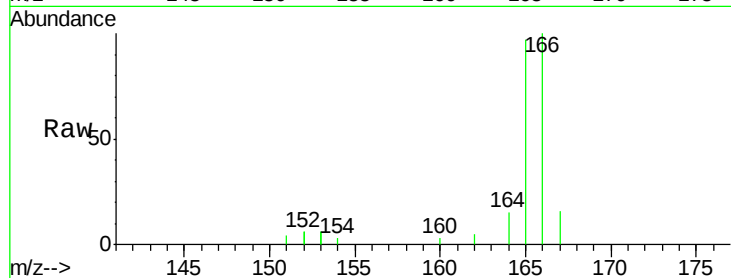




#9  
**Fluorene**  
 Concen: 0.19 ng/ul  
 RT: 15.27 min Scan# 2058  
 Delta R.T. 0.00 min  
 Lab File: BE090099.D  
 Acq: 14 Jul 2015 15:30

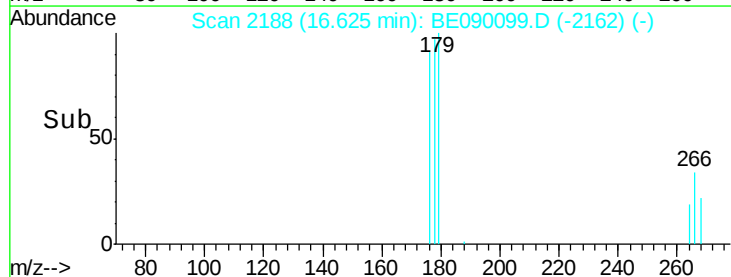
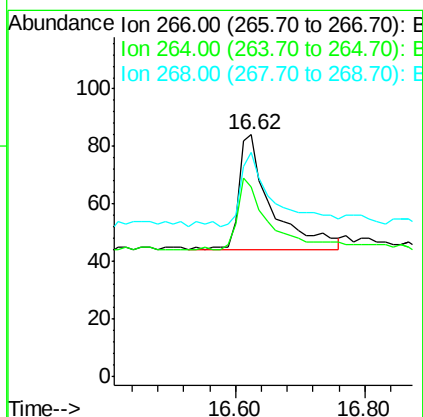
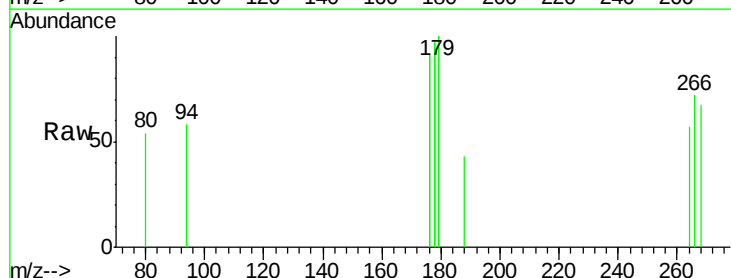
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SST0.202

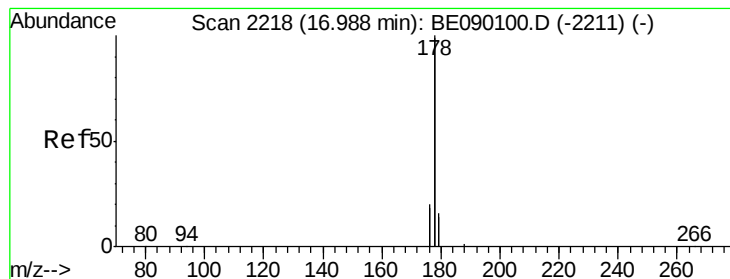
Tgt Ion:166 Resp: 3407  
 Ion Ratio Lower Upper  
 166 100  
 165 96.9 79.3 118.9  
 167 15.6 11.6 17.4



#11  
**Pentachlorophenol**  
 Concen: 0.07 ng/ul  
 RT: 16.62 min Scan# 2188  
 Delta R.T. 0.01 min  
 Lab File: BE090099.D  
 Acq: 14 Jul 2015 15:30

Tgt Ion:266 Resp: 141  
 Ion Ratio Lower Upper  
 266 100  
 264 56.7 46.8 70.2  
 268 65.2 49.1 73.7





#12

Phenanthrene

Concen: 0.48 ng/ul

RT: 16.99 min Scan# 2218

Delta R.T. 0.00 min

Lab File: BE090099.D

Acq: 14 Jul 2015 15:30

Instrument :

BNA\_E

ClientSampleId :

SSTD0.202

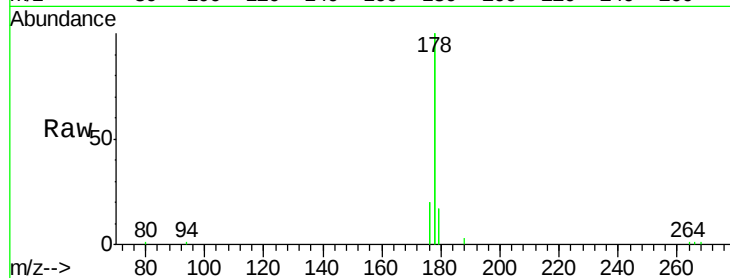
Tgt Ion:178 Resp: 21695

Ion Ratio Lower Upper

178 100

176 20.2 15.9 23.9

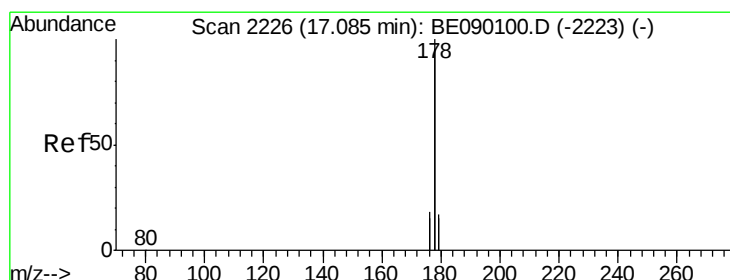
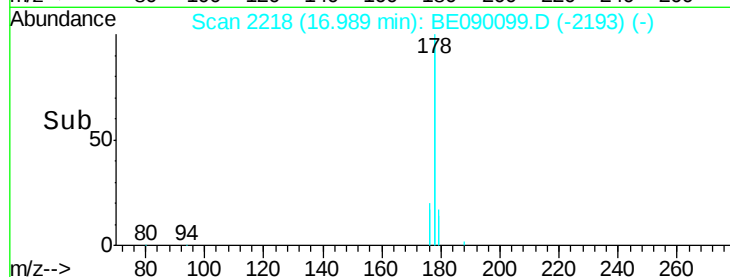
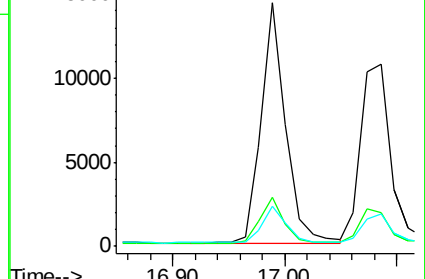
179 16.6 12.6 18.8



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



#13

Anthracene

Concen: 0.47 ng/ul

RT: 17.09 min Scan# 2226

Delta R.T. 0.00 min

Lab File: BE090099.D

Acq: 14 Jul 2015 15:30

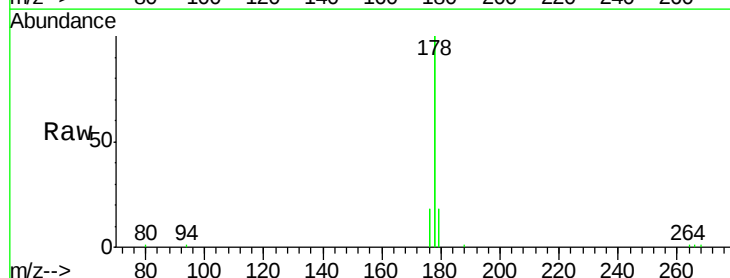
Tgt Ion:178 Resp: 20570

Ion Ratio Lower Upper

178 100

176 18.2 14.0 21.0

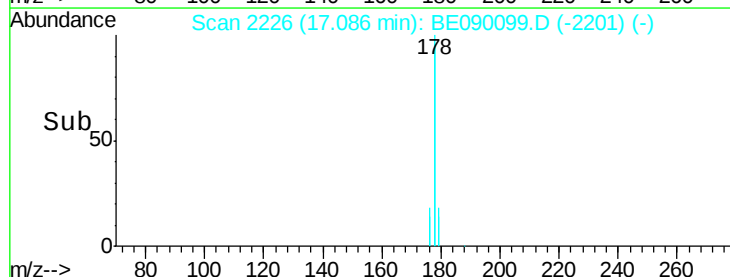
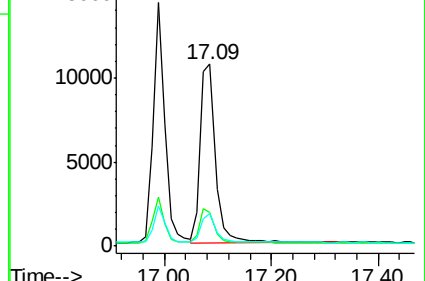
179 18.0 13.8 20.6

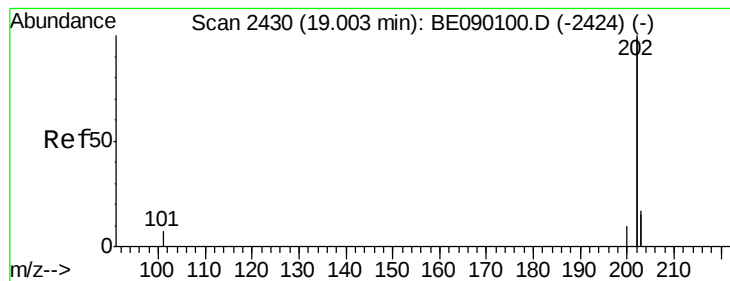


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E





#15

Fluoranthene

Concen: 0.46 ng/ul

RT: 19.01 min Scan# 2431

Delta R.T. 0.01 min

Lab File: BE090099.D

Acq: 14 Jul 2015 15:30

Instrument :

BNA\_E

ClientSampleId :

SSTD0.202

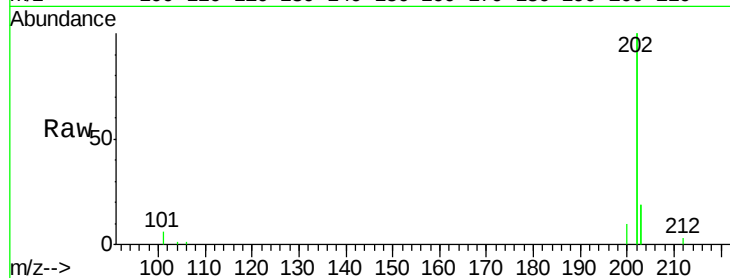
Tgt Ion:202 Resp: 22893

Ion Ratio Lower Upper

202 100

101 3.0 0.0 23.5

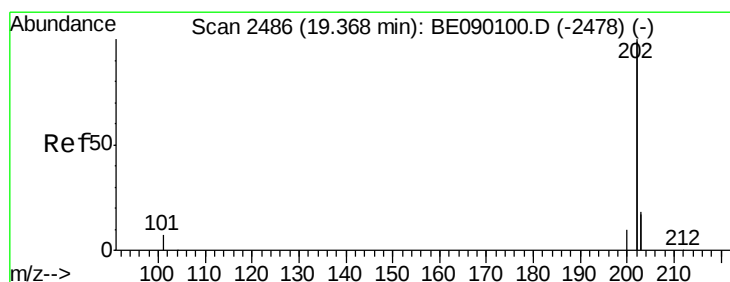
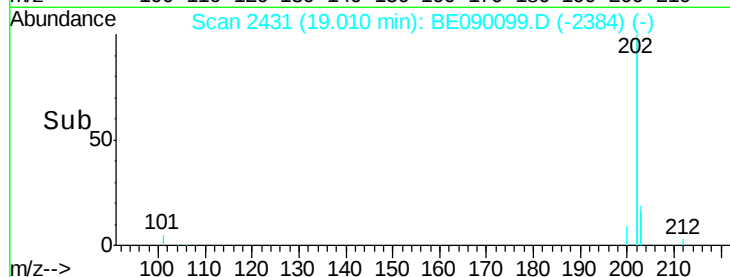
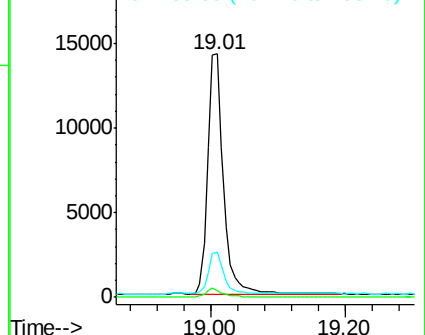
203 18.7 0.0 37.0



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



#17

Pyrene

Concen: 0.45 ng/ul

RT: 19.37 min Scan# 2486

Delta R.T. 0.00 min

Lab File: BE090099.D

Acq: 14 Jul 2015 15:30

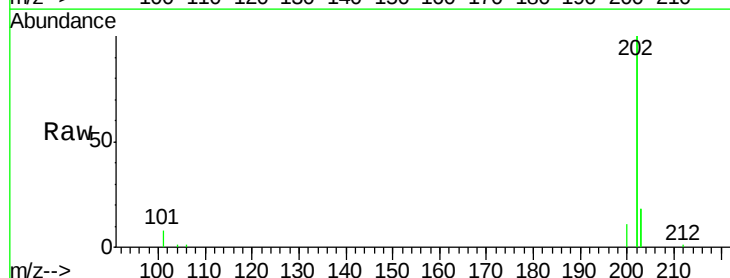
Tgt Ion:202 Resp: 23272

Ion Ratio Lower Upper

202 100

200 5.4 4.2 6.4

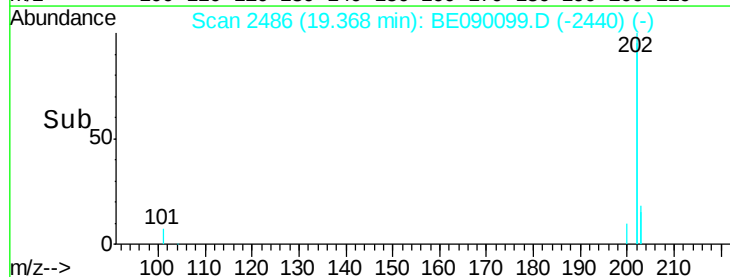
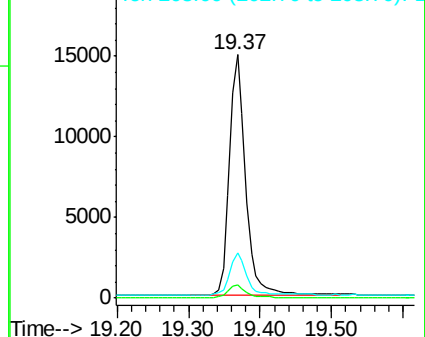
203 18.4 14.5 21.7

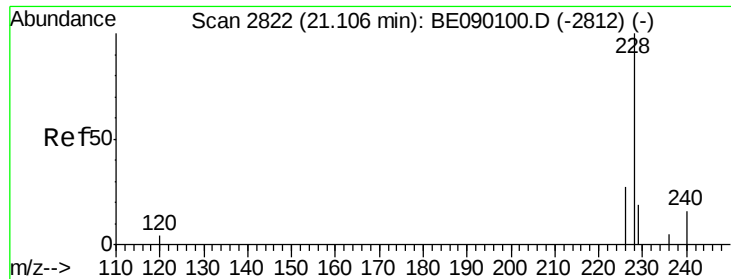


Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E

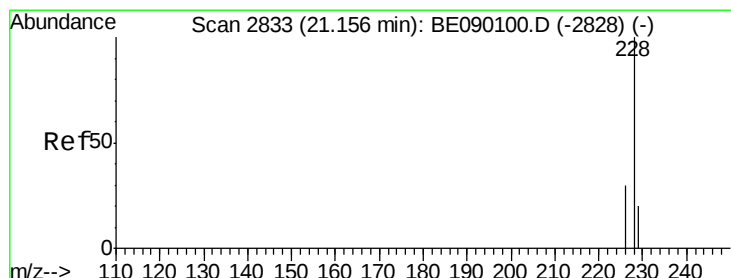
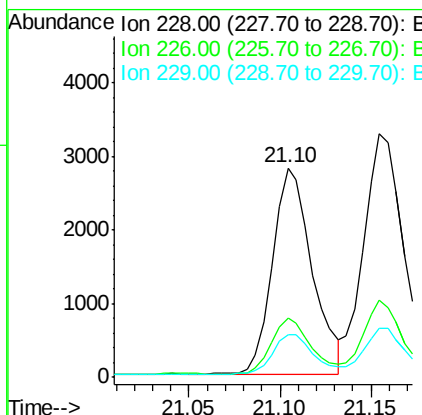
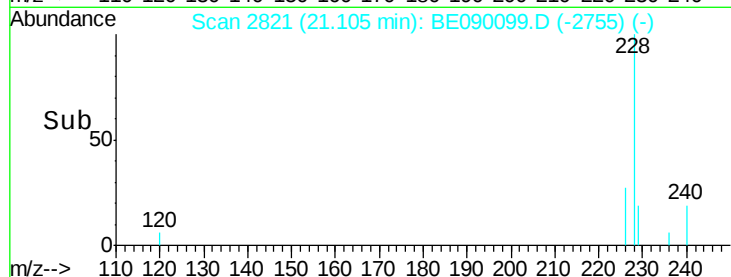
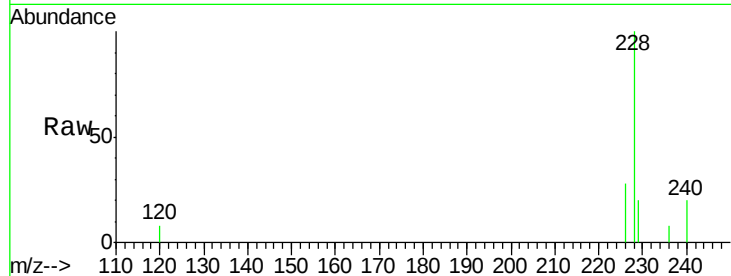




#18  
Benzo(a)anthracene  
Concen: 0.14 ng/ul  
RT: 21.10 min Scan# 2821  
Delta R.T. -0.00 min  
Lab File: BE090099.D  
Acq: 14 Jul 2015 15:30

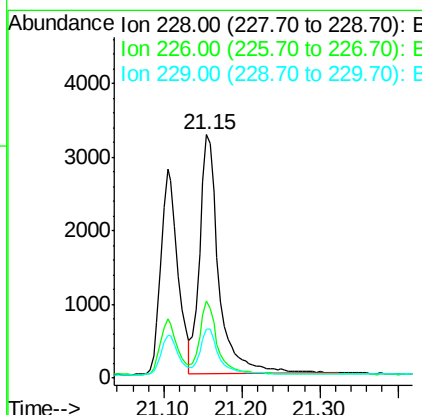
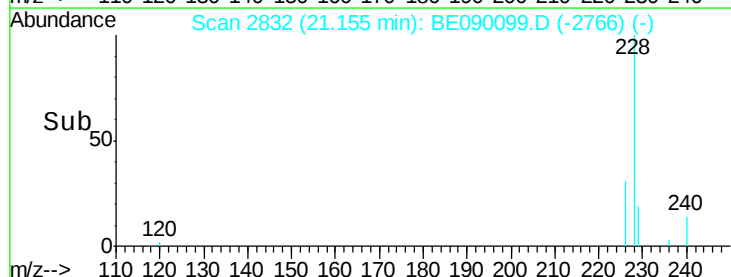
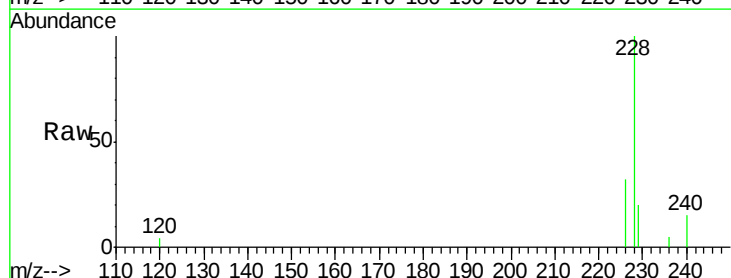
Instrument :  
BNA\_E  
ClientSampleId :  
SSTD0.202

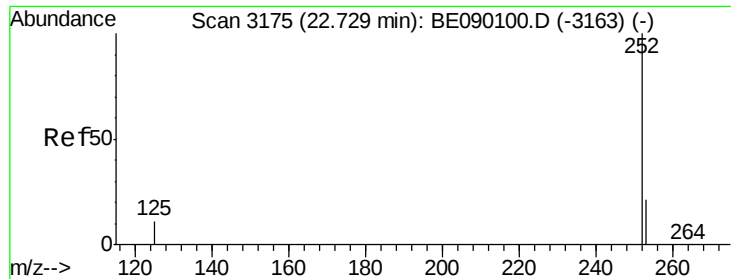
Tgt Ion:228 Resp: 4231  
Ion Ratio Lower Upper  
228 100  
226 28.2 21.8 32.8  
229 20.1 16.0 24.0



#19  
Chrysene  
Concen: 0.18 ng/ul  
RT: 21.15 min Scan# 2832  
Delta R.T. -0.00 min  
Lab File: BE090099.D  
Acq: 14 Jul 2015 15:30

Tgt Ion:228 Resp: 5586  
Ion Ratio Lower Upper  
228 100  
226 31.7 24.2 36.2  
229 20.1 16.1 24.1





#21

Benzo(b)fluoranthene

Concen: 0.13 ng/u1

RT: 22.73 min Scan# 3175

Delta R.T. 0.00 min

Lab File: BE090099.D

Acq: 14 Jul 2015 15:30

Instrument :

BNA\_E

ClientSampleId :

SSTD0.202

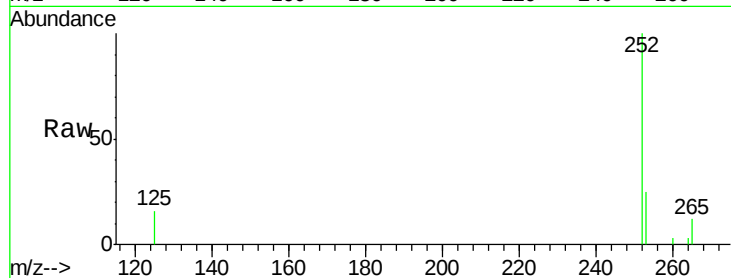
Tgt Ion:252 Resp: 3292

Ion Ratio Lower Upper

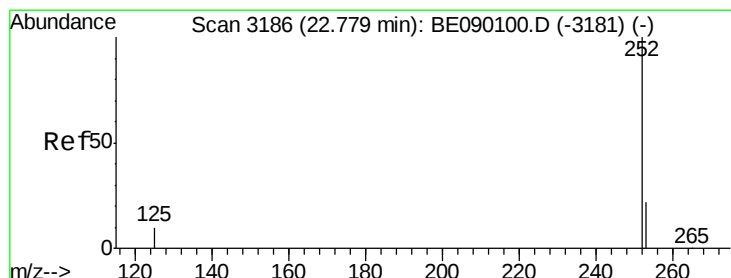
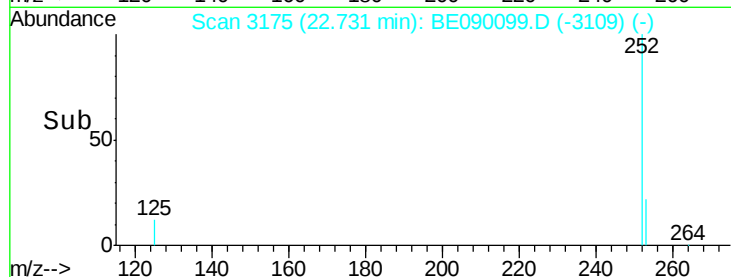
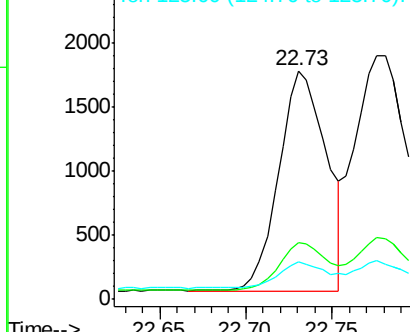
252 100

253 24.8 0.0 45.8

125 16.4 0.0 26.6



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



#22

Benzo(k)fluoranthene

Concen: 0.21 ng/u1

RT: 22.78 min Scan# 3185

Delta R.T. -0.00 min

Lab File: BE090099.D

Acq: 14 Jul 2015 15:30

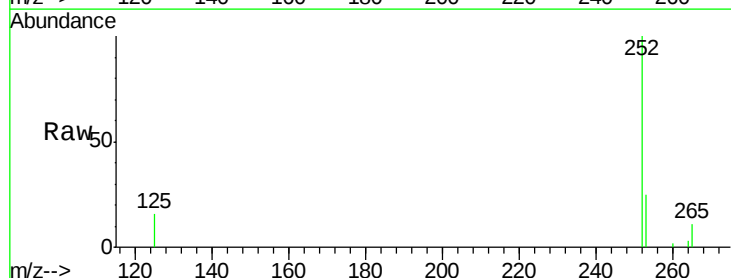
Tgt Ion:252 Resp: 4730

Ion Ratio Lower Upper

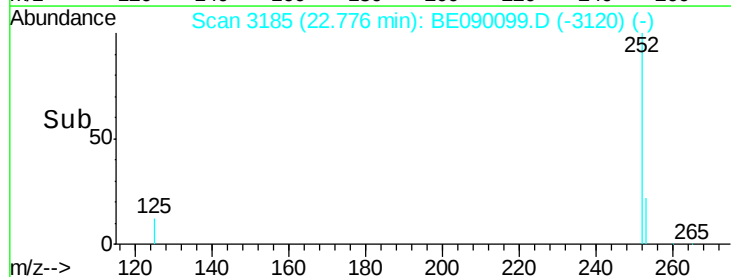
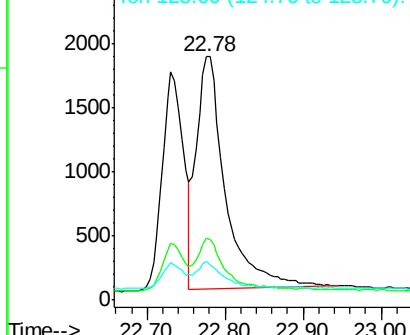
252 100

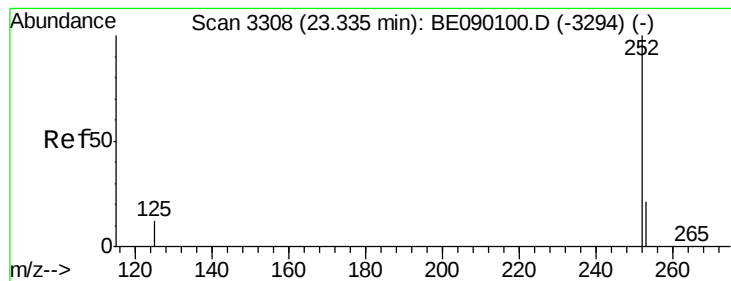
253 25.4 18.4 27.6

125 15.8 10.3 15.5#



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: 0.15 ng/ul

RT: 23.33 min Scan# 3307

Delta R.T. -0.00 min

Lab File: BE090099.D

Acq: 14 Jul 2015 15:30

Instrument :

BNA\_E

ClientSampleId :

SSTD0.202

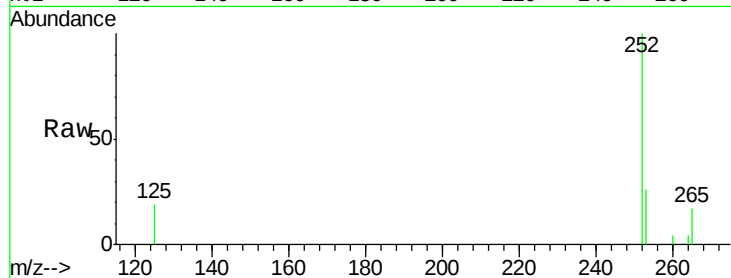
Tgt Ion:252 Resp: 3295

Ion Ratio Lower Upper

252 100

253 26.4 18.6 27.8

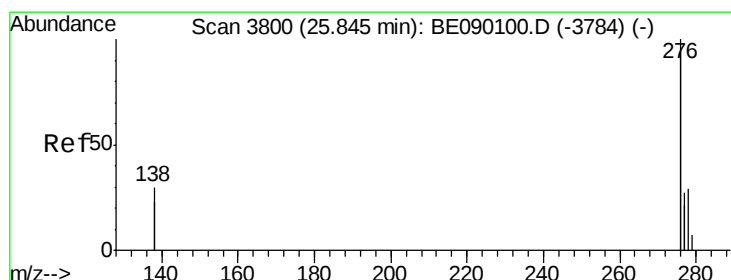
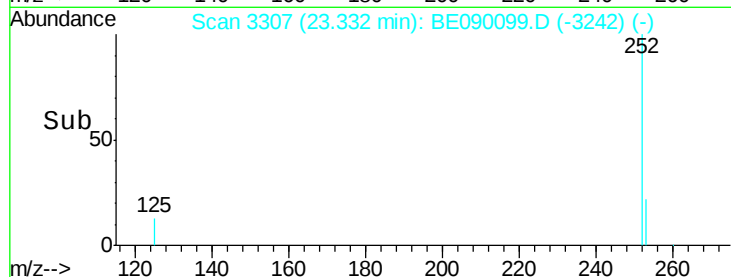
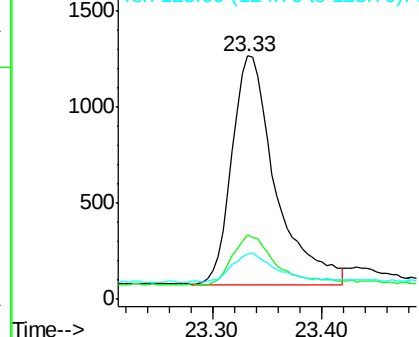
125 18.8 12.0 18.0#



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.43 ng/ul

RT: 25.85 min Scan# 3800

Delta R.T. 0.00 min

Lab File: BE090099.D

Acq: 14 Jul 2015 15:30

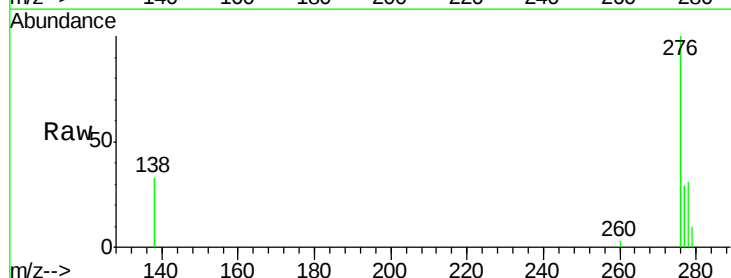
Tgt Ion:276 Resp: 14666

Ion Ratio Lower Upper

276 100

138 26.8 21.8 32.8

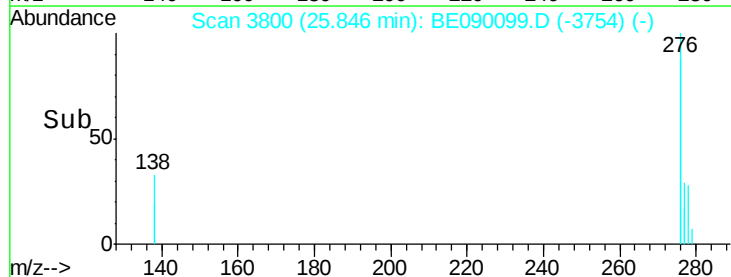
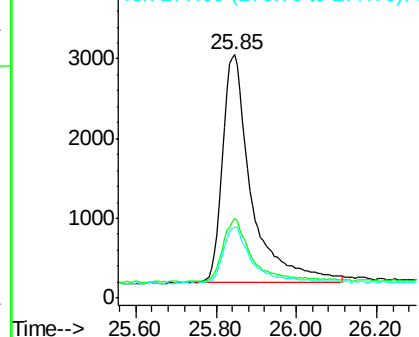
277 24.2 19.4 29.2

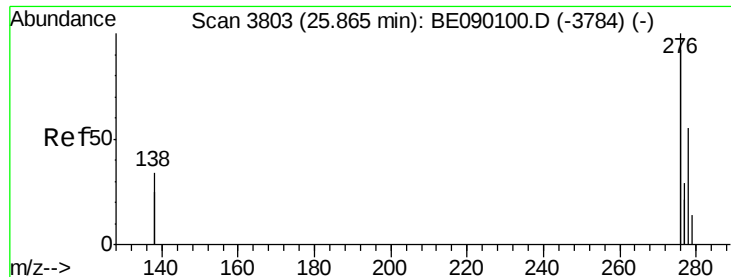


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E





#25

Dibenzo(a,h)anthracene

Concen: 0.14 ng/ul

RT: 25.86 min Scan# 3802

Delta R.T. -0.01 min

Lab File: BE090099.D

Acq: 14 Jul 2015 15:30

Instrument :

BNA\_E

ClientSampleId :

SSTD0.202

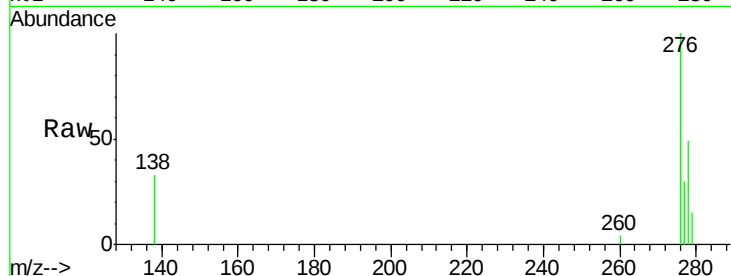
Tgt Ion: 278 Resp: 2628

Ion Ratio Lower Upper

278 100

139 0.0 0.0 0.0

279 30.2 22.6 34.0



Abundance Ion 278.00 (277.70 to 278.70): E

Ion 139.00 (138.70 to 139.70): E

Ion 279.00 (278.70 to 279.70): E

25.86

600

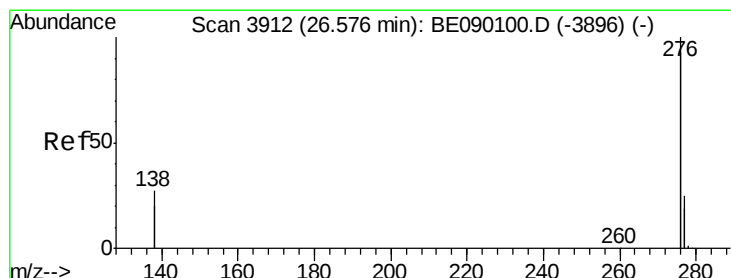
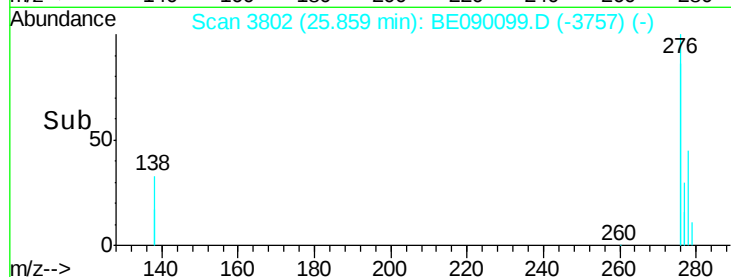
400

200

0

25.80 26.00

Time-->



#26

Benzo(g,h,i)perylene

Concen: 0.45 ng/ul

RT: 26.58 min Scan# 3912

Delta R.T. 0.00 min

Lab File: BE090099.D

Acq: 14 Jul 2015 15:30

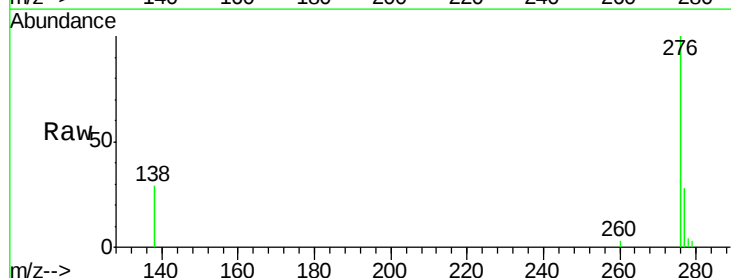
Tgt Ion: 276 Resp: 13528

Ion Ratio Lower Upper

276 100

277 27.7 20.0 30.0

138 28.8 21.7 32.5



Abundance Ion 276.00 (275.70 to 276.70): E

Ion 277.00 (276.70 to 277.70): E

Ion 138.00 (137.70 to 138.70): E

26.58

4000

3000

2000

1000

0

26.40 26.60 26.80

Time-->

