

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE072815\  
 Data File : BE090269.D  
 Acq On : 28 Jul 2015 13:40  
 Operator : TP/IZ  
 Sample : SSTD0.444  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 SSTD0.444

Quant Time: Jul 29 04:03:30 2015  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM02.2-EPA-SIM-BE072815.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jul 29 04:02:27 2015  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.60  | 152  | 1102     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.36 | 136  | 4385     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.21 | 164  | 2380     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 16.94 | 188  | 5680     | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.11 | 240  | 4180     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.42 | 264  | 3028     | 0.40 | ng/ul | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|-----------------------------|-------|------|----------|------|-------|----------|
| 4) 2-Methylnaphthalene-d10  | 11.95 | 152  | 2528     | 0.38 | ng/ul | 0.00     |
| 14) Fluoranthene-d10        | 18.97 | 212  | 6280     | 0.40 | ng/ul | 0.00     |

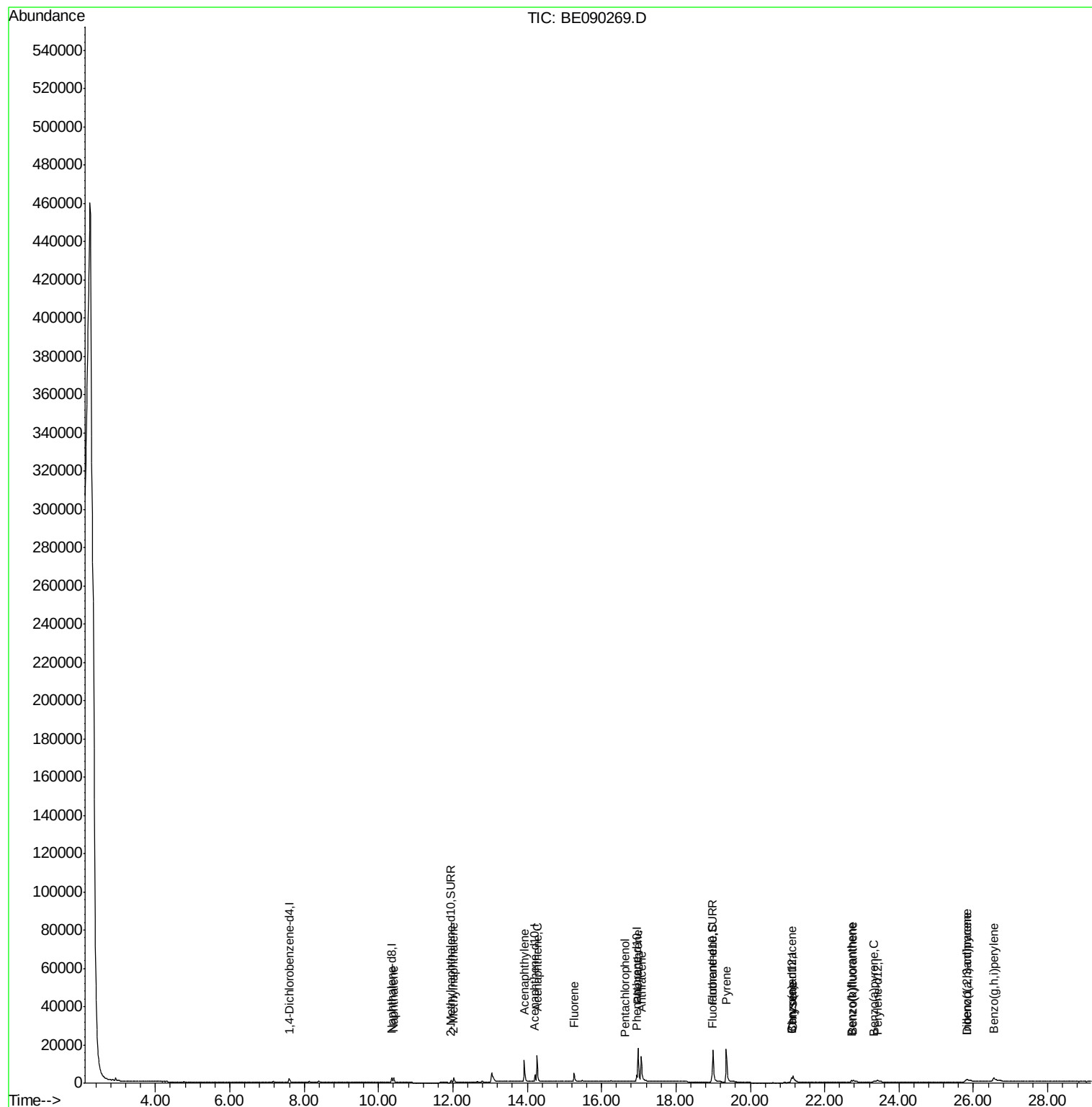
| Target Compounds           | R.T.  | QIon | Response | Conc | Units | Qvalue |
|----------------------------|-------|------|----------|------|-------|--------|
| 3) Naphthalene             | 10.40 | 128  | 4458     | 0.38 | ng/ul | 100    |
| 5) 2-Methylnaphthalene     | 12.02 | 142  | 2720     | 0.37 | ng/ul | 100    |
| 7) Acenaphthylene          | 13.92 | 152  | 19521    | 0.39 | ng/ul | 100    |
| 8) Acenaphthene            | 14.26 | 153  | 14439    | 0.40 | ng/ul | 100    |
| 9) Fluorene                | 15.26 | 166  | 3861     | 0.40 | ng/ul | 100    |
| 11) Pentachlorophenol      | 16.62 | 266  | 135      | 0.29 | ng/ul | 98     |
| 12) Phenanthrene           | 16.98 | 178  | 23677    | 0.38 | ng/ul | 100    |
| 13) Anthracene             | 17.07 | 178  | 23843    | 0.38 | ng/ul | 100    |
| 15) Fluoranthene           | 19.00 | 202  | 28368    | 0.39 | ng/ul | 100    |
| 17) Pyrene                 | 19.35 | 202  | 28837    | 0.40 | ng/ul | 100    |
| 18) Benzo(a)anthracene     | 21.10 | 228  | 2316     | 0.35 | ng/ul | 100    |
| 19) Chrysene               | 21.15 | 228  | 6192     | 0.33 | ng/ul | 100    |
| 21) Benzo(b)fluoranthene   | 22.72 | 252  | 1587     | 0.33 | ng/ul | 100    |
| 22) Benzo(k)fluoranthene   | 22.77 | 252  | 4043     | 0.26 | ng/ul | 100    |
| 23) Benzo(a)pyrene         | 23.32 | 252  | 1970     | 0.30 | ng/ul | 100    |
| 24) Indeno(1,2,3-cd)pyrene | 25.82 | 276  | 6196     | 0.32 | ng/ul | 100    |
| 25) Dibenzo(a,h)anthracene | 25.84 | 278  | 712      | 0.25 | ng/ul | 100    |
| 26) Benzo(g,h,i)perylene   | 26.55 | 276  | 10316    | 0.35 | ng/ul | 100    |

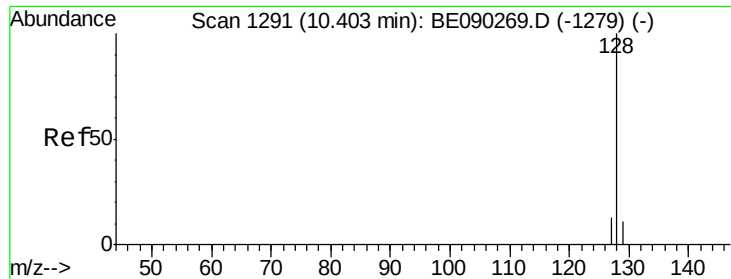
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jul 29 04:02:27 2015  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.38 ng/ul

RT: 10.40 min Scan# 1291

Delta R.T. 0.00 min

Lab File: BE090269.D

Acq: 28 Jul 2015 13:40

Instrument :

BNA\_E

ClientSampleId :

SSTD0.444

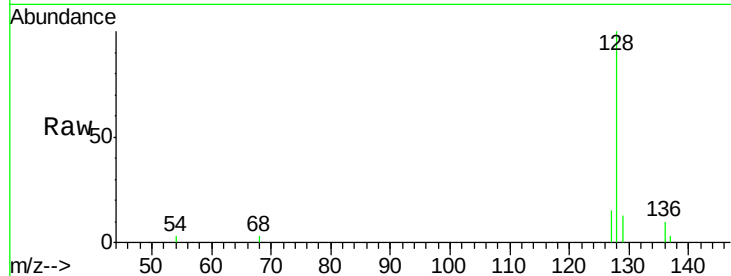
Tgt Ion:128 Resp: 4458

Ion Ratio Lower Upper

128 100

129 13.0 10.4 15.6

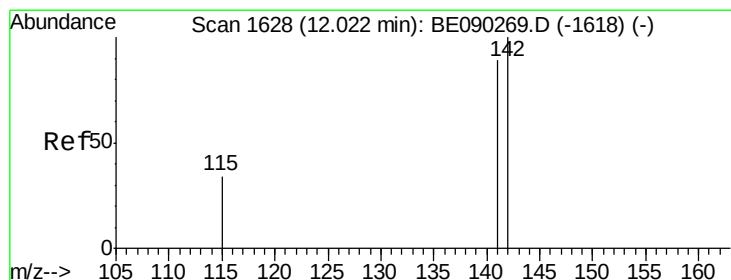
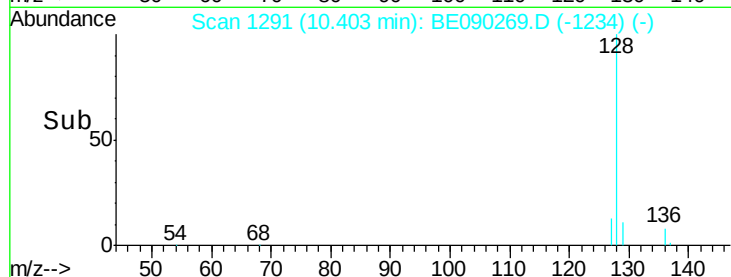
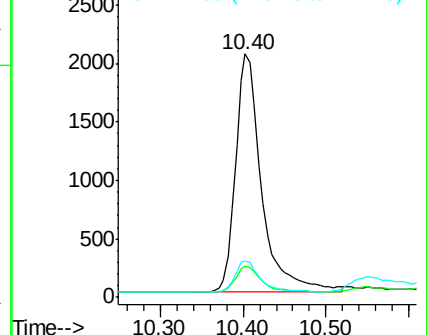
127 15.1 12.1 18.1



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: 0.37 ng/ul

RT: 12.02 min Scan# 1628

Delta R.T. 0.00 min

Lab File: BE090269.D

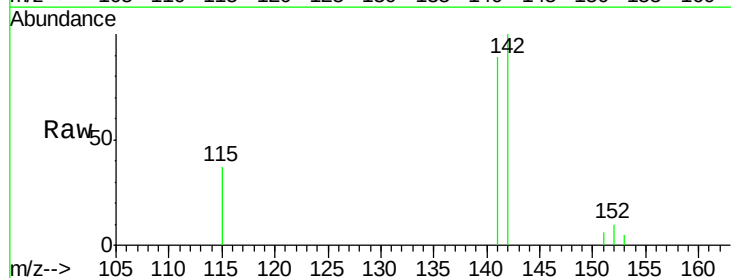
Acq: 28 Jul 2015 13:40

Tgt Ion:142 Resp: 2720

Ion Ratio Lower Upper

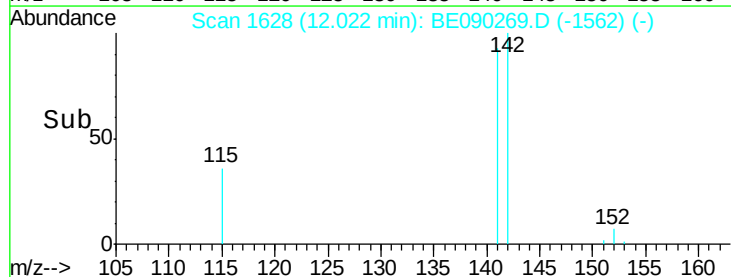
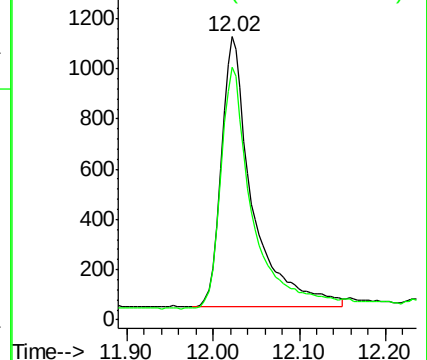
142 100

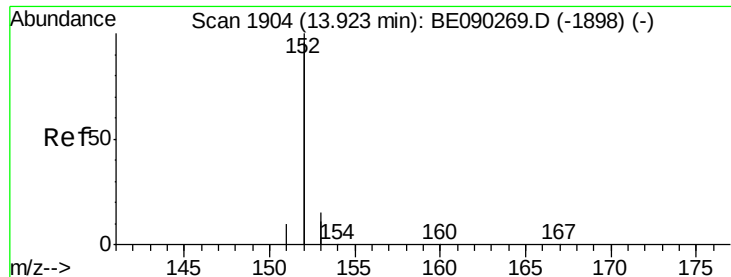
141 91.2 73.0 109.4



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.39 ng/ul

RT: 13.92 min Scan# 1904

Delta R.T. 0.00 min

Lab File: BE090269.D

Acq: 28 Jul 2015 13:40

Instrument :

BNA\_E

ClientSampleId :

SSTD0.444

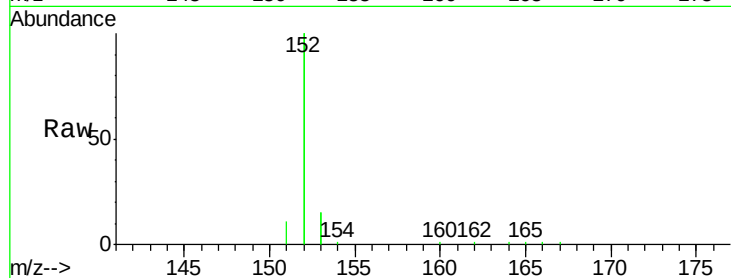
Tgt Ion:152 Resp: 19521

Ion Ratio Lower Upper

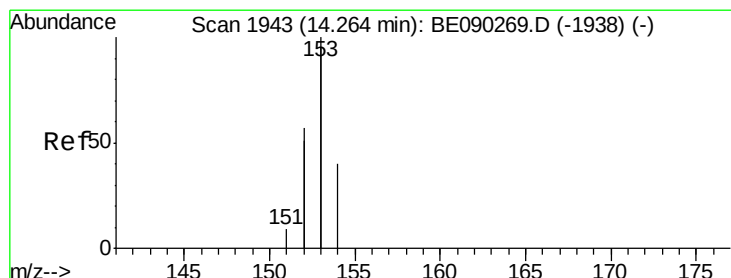
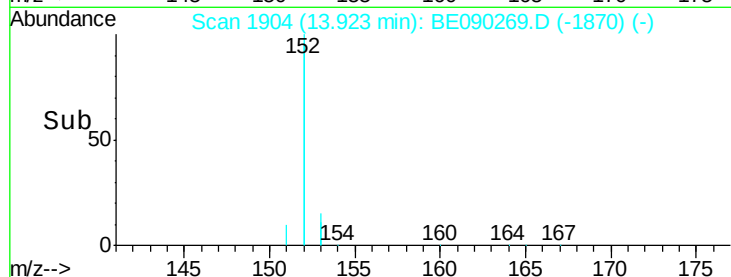
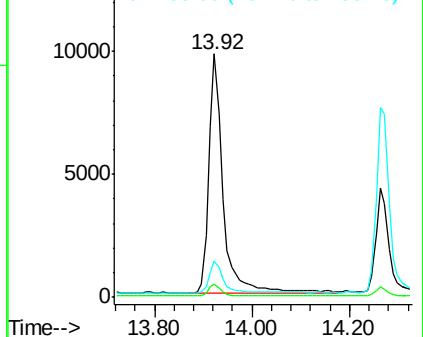
152 100

151 5.4 4.3 6.5

153 14.9 11.9 17.9



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: 0.40 ng/ul

RT: 14.26 min Scan# 1943

Delta R.T. 0.00 min

Lab File: BE090269.D

Acq: 28 Jul 2015 13:40

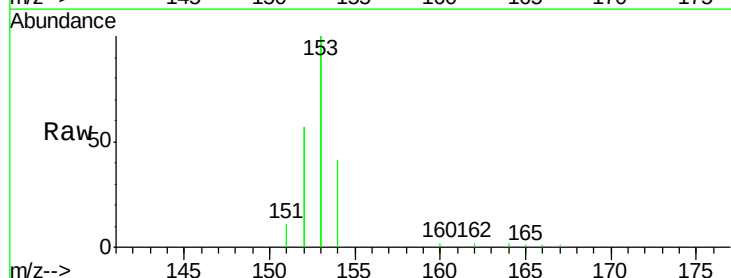
Tgt Ion:153 Resp: 14439

Ion Ratio Lower Upper

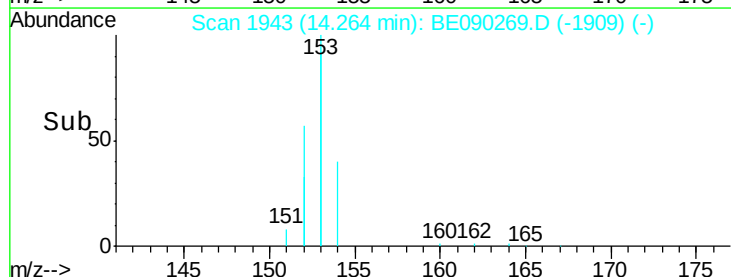
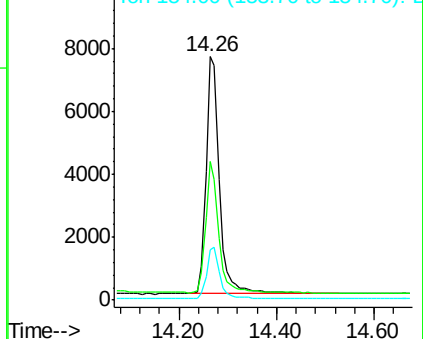
153 100

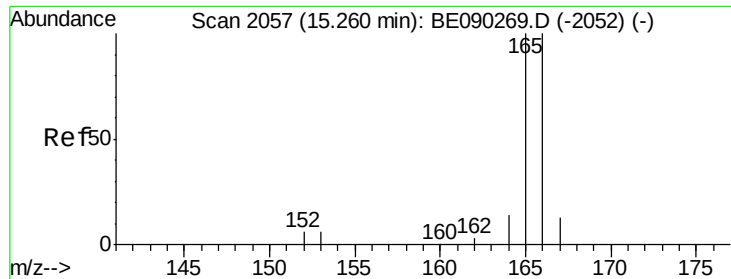
152 57.1 45.7 68.5

154 20.5 16.4 24.6



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: 0.40 ng/ul

RT: 15.26 min Scan# 2057

Delta R.T. 0.00 min

Lab File: BE090269.D

Acq: 28 Jul 2015 13:40

Instrument :

BNA\_E

ClientSampleId :

SSTD0.444

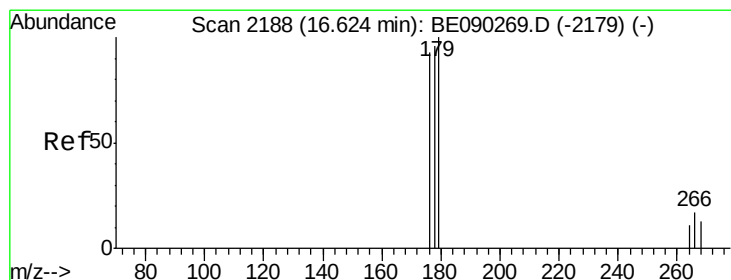
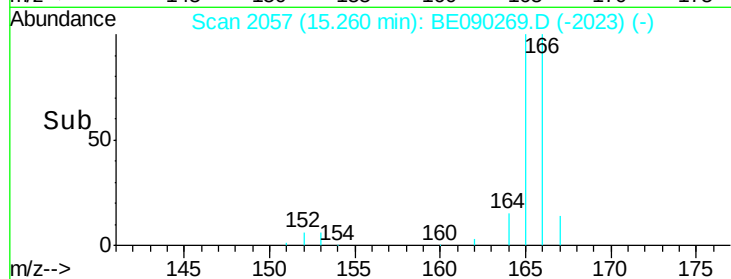
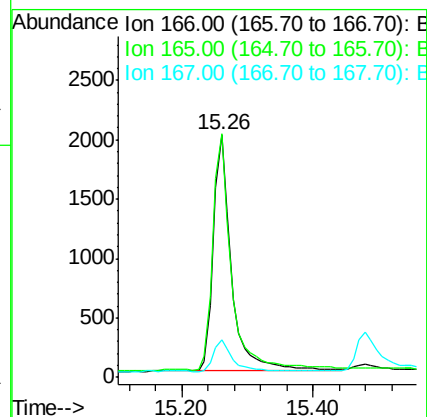
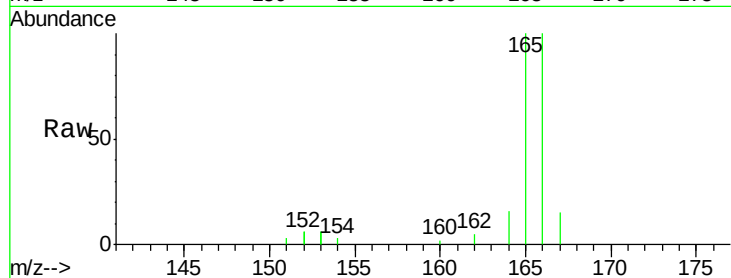
Tgt Ion:166 Resp: 3861

Ion Ratio Lower Upper

166 100

165 100.4 80.3 120.5

167 15.5 12.4 18.6



#11

Pentachlorophenol

Concen: 0.29 ng/ul

RT: 16.62 min Scan# 2188

Delta R.T. 0.00 min

Lab File: BE090269.D

Acq: 28 Jul 2015 13:40

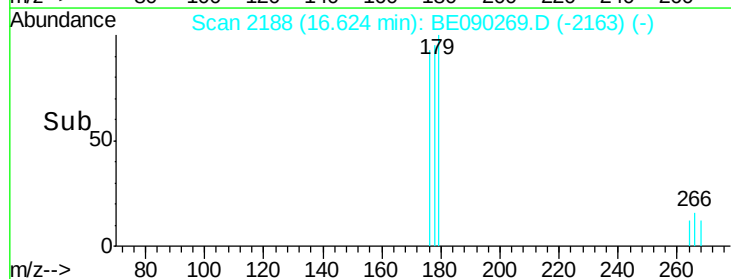
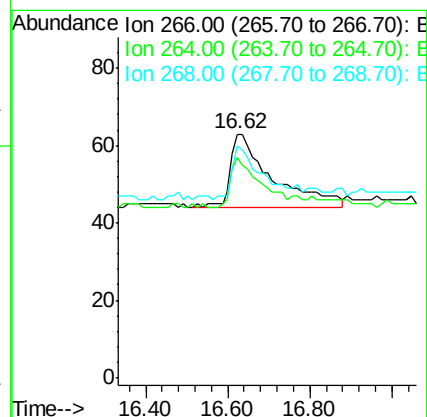
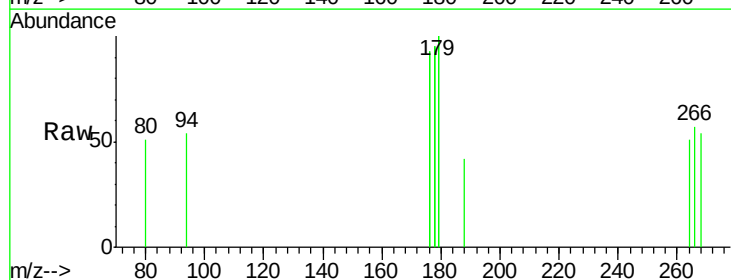
Tgt Ion:266 Resp: 135

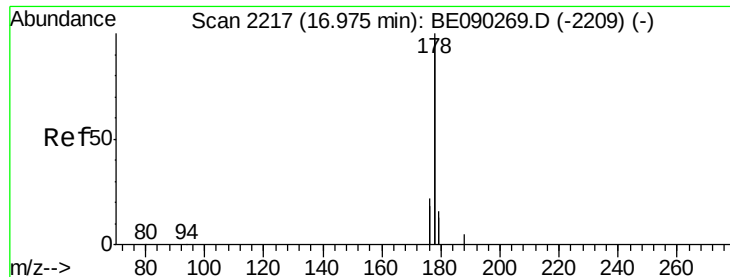
Ion Ratio Lower Upper

266 100

264 52.6 43.4 65.0

268 54.1 44.6 66.8





#12

Phenanthrene

Concen: 0.38 ng/ul

RT: 16.98 min Scan# 2217

Delta R.T. 0.00 min

Lab File: BE090269.D

Acq: 28 Jul 2015 13:40

Instrument :

BNA\_E

ClientSampleId :

SSTD0.444

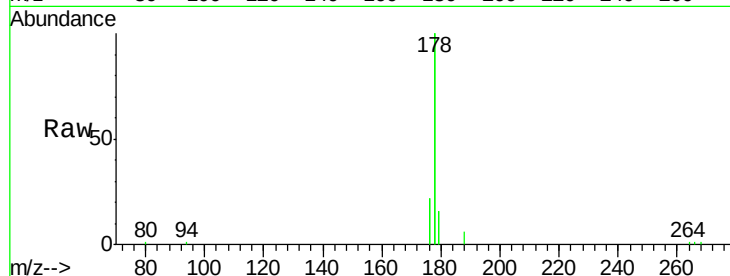
Tgt Ion:178 Resp: 23677

Ion Ratio Lower Upper

178 100

176 21.6 17.3 25.9

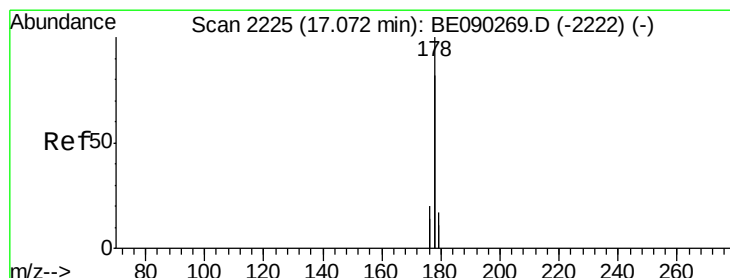
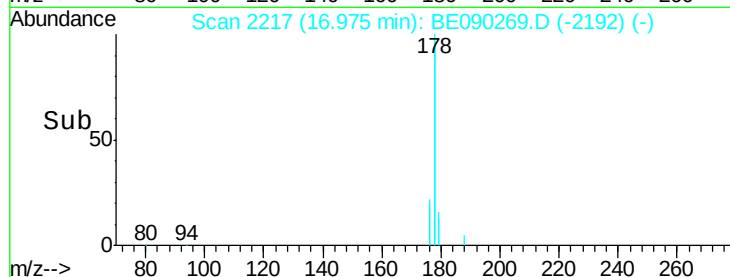
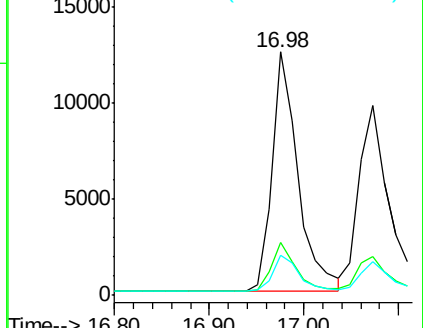
179 16.4 13.1 19.7



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



#13

Anthracene

Concen: 0.38 ng/ul

RT: 17.07 min Scan# 2225

Delta R.T. 0.00 min

Lab File: BE090269.D

Acq: 28 Jul 2015 13:40

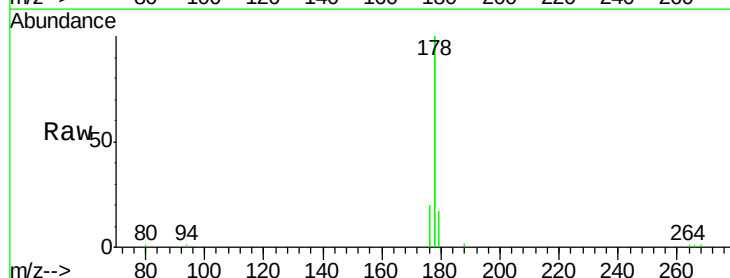
Tgt Ion:178 Resp: 23843

Ion Ratio Lower Upper

178 100

176 20.5 16.4 24.6

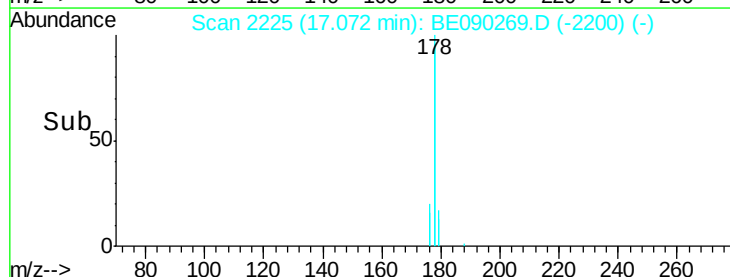
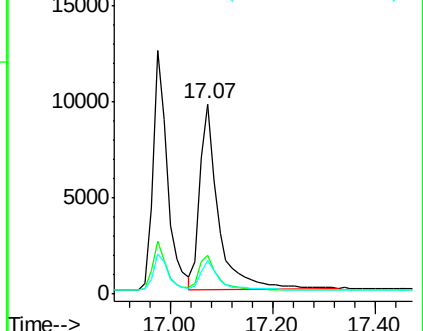
179 17.4 13.9 20.9

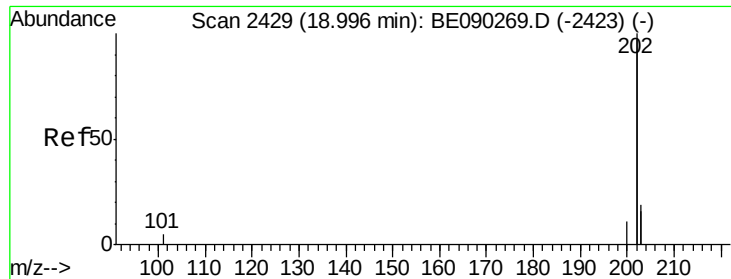


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 176.00 (175.70 to 176.70): E

Ion 179.00 (178.70 to 179.70): E

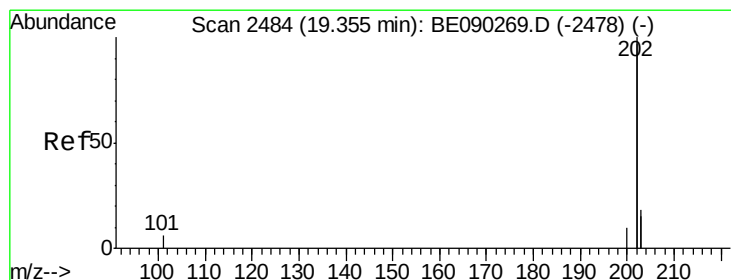
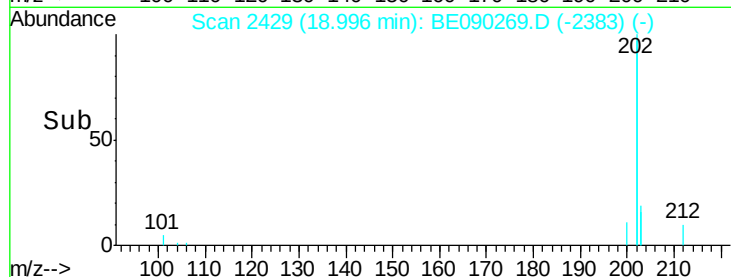
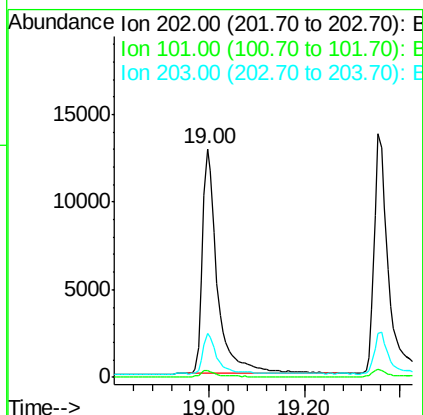
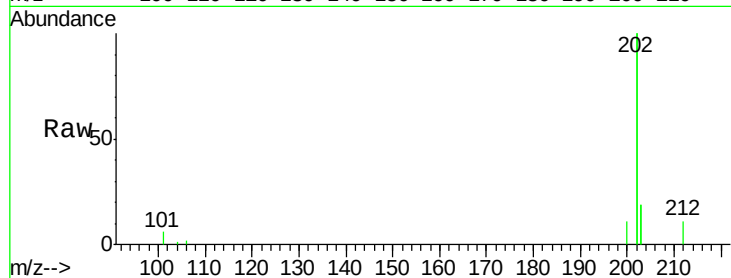




#15  
**Fluoranthene**  
 Concen: 0.39 ng/ul  
 RT: 19.00 min Scan# 2429  
 Delta R.T. 0.00 min  
 Lab File: BE090269.D  
 Acq: 28 Jul 2015 13:40

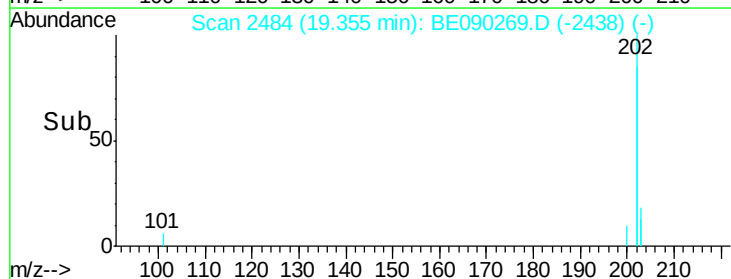
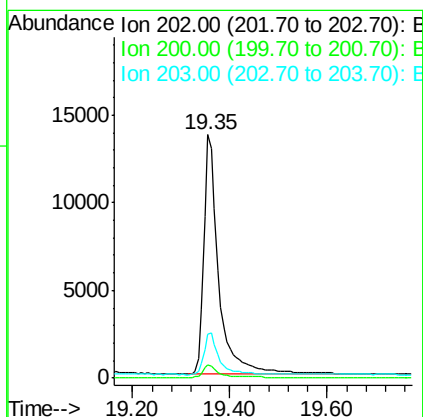
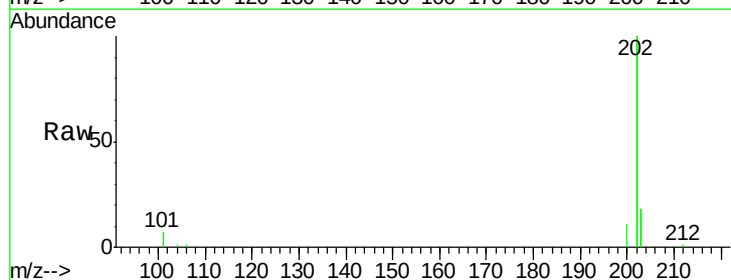
Instrument :  
 BNA\_E  
 ClientSampleId :  
 SST0.444

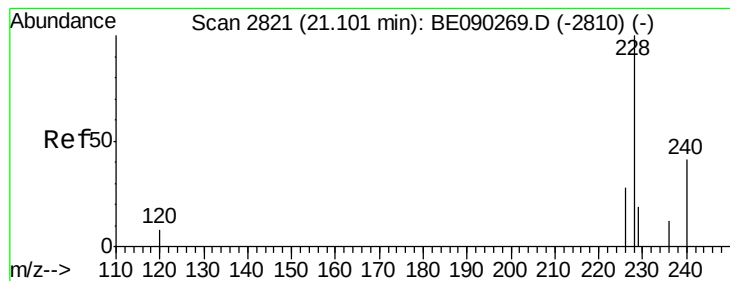
Tgt Ion:202 Resp: 28368  
 Ion Ratio Lower Upper  
 202 100  
 101 2.9 0.0 22.9  
 203 19.0 0.0 39.0



#17  
**Pyrene**  
 Concen: 0.40 ng/ul  
 RT: 19.35 min Scan# 2484  
 Delta R.T. 0.00 min  
 Lab File: BE090269.D  
 Acq: 28 Jul 2015 13:40

Tgt Ion:202 Resp: 28837  
 Ion Ratio Lower Upper  
 202 100  
 200 5.6 4.5 6.7  
 203 18.0 14.4 21.6





#18

Benzo(a)anthracene

Concen: 0.35 ng/ul

RT: 21.10 min Scan# 2821

Delta R.T. 0.00 min

Lab File: BE090269.D

Acq: 28 Jul 2015 13:40

Instrument :

BNA\_E

ClientSampleId :

SSTD0.444

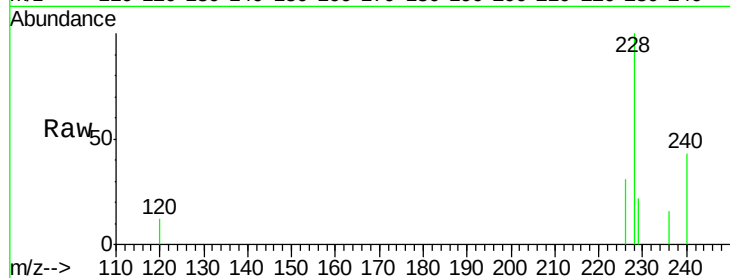
Tgt Ion:228 Resp: 2316

Ion Ratio Lower Upper

228 100

226 30.7 24.6 36.8

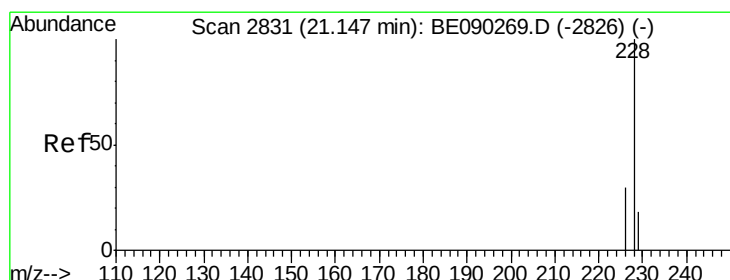
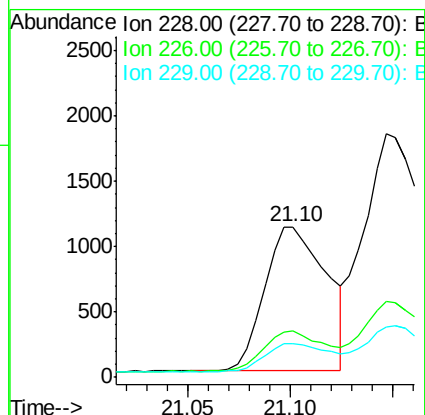
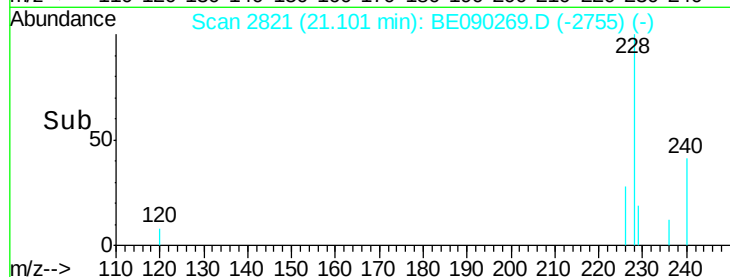
229 22.4 17.9 26.9



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: 0.33 ng/ul

RT: 21.15 min Scan# 2831

Delta R.T. 0.00 min

Lab File: BE090269.D

Acq: 28 Jul 2015 13:40

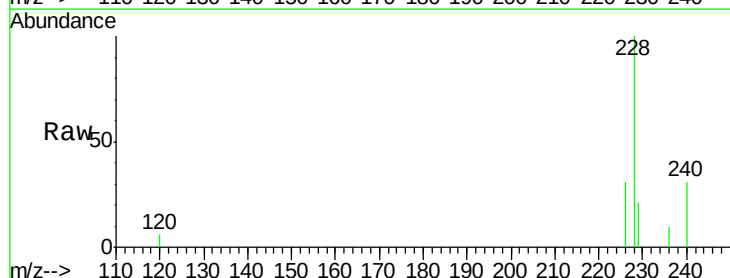
Tgt Ion:228 Resp: 6192

Ion Ratio Lower Upper

228 100

226 31.2 25.0 37.4

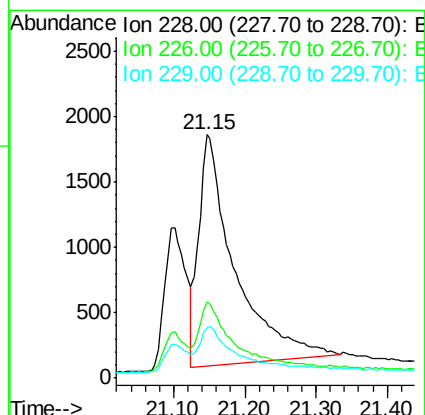
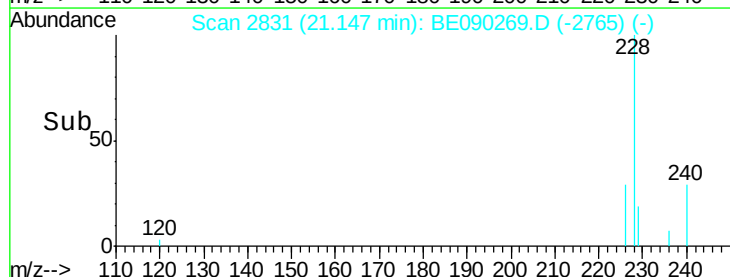
229 20.7 16.6 24.8



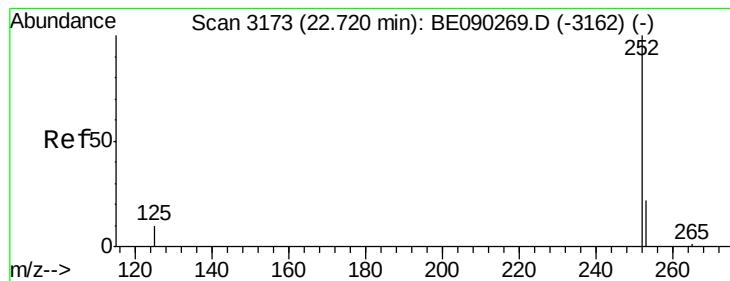
Abundance Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E







#21

Benzo(b)fluoranthene

Concen: 0.33 ng/ul

RT: 22.72 min Scan# 3173

Delta R.T. 0.00 min

Lab File: BE090269.D

Acq: 28 Jul 2015 13:40

Instrument :

BNA\_E

ClientSampleId :

SSTD0.444

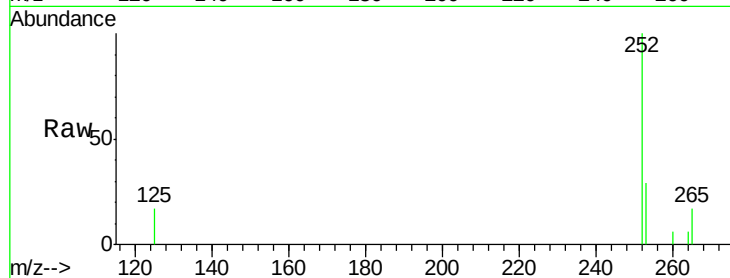
Tgt Ion:252 Resp: 1587

Ion Ratio Lower Upper

252 100

253 28.6 0.0 57.2

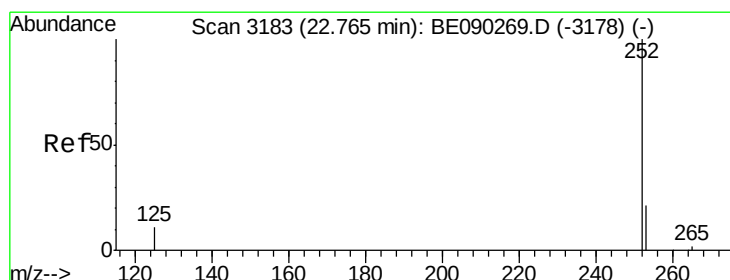
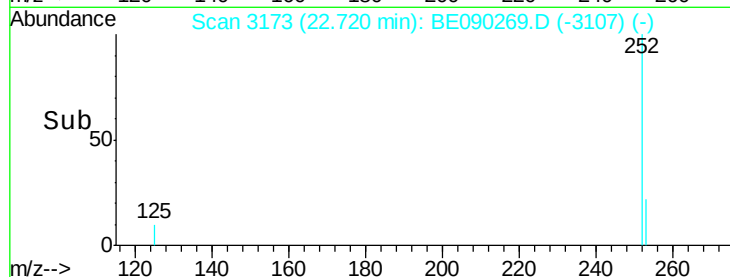
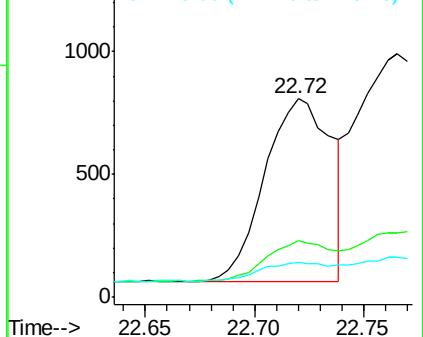
125 17.3 0.0 34.6



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: 0.26 ng/ul

RT: 22.77 min Scan# 3183

Delta R.T. 0.00 min

Lab File: BE090269.D

Acq: 28 Jul 2015 13:40

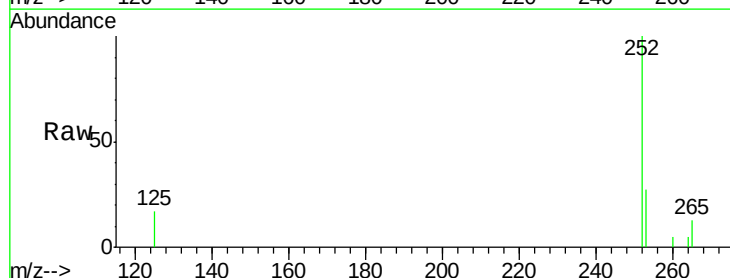
Tgt Ion:252 Resp: 4043

Ion Ratio Lower Upper

252 100

253 26.6 21.3 31.9

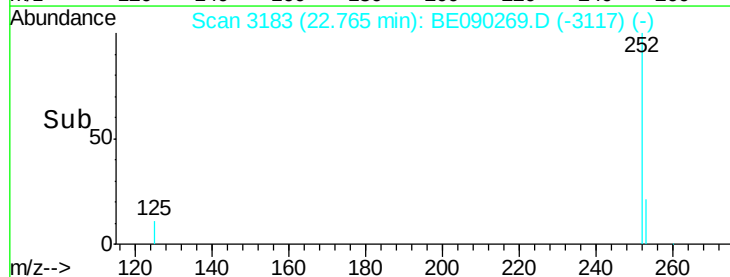
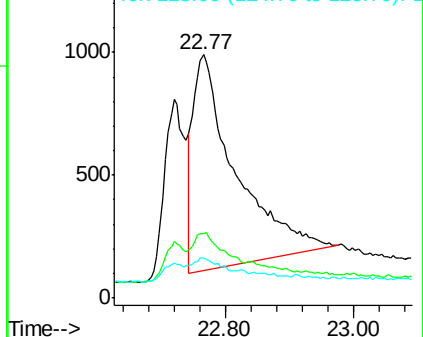
125 16.6 13.3 19.9

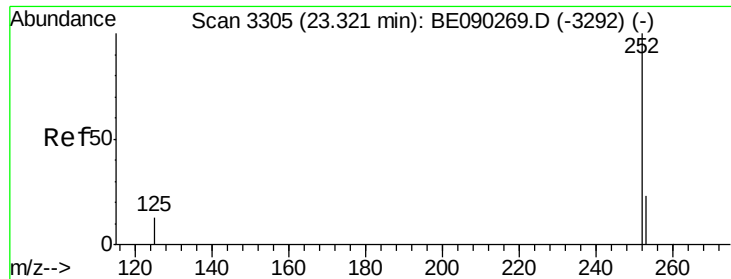


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#23

Benzo(a)pyrene

Concen: 0.30 ng/ul

RT: 23.32 min Scan# 3305

Delta R.T. 0.00 min

Lab File: BE090269.D

Acq: 28 Jul 2015 13:40

Instrument :

BNA\_E

ClientSampleId :

SSTD0.444

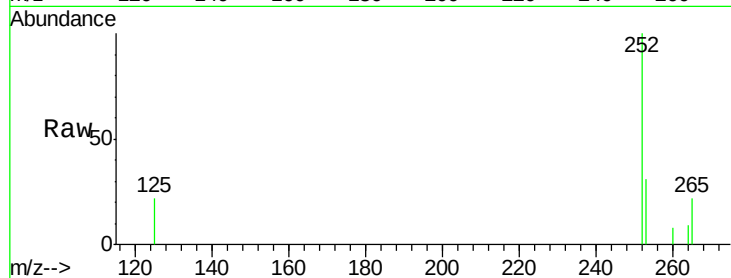
Tgt Ion: 252 Resp: 1970

Ion Ratio Lower Upper

252 100

253 31.1 24.9 37.3

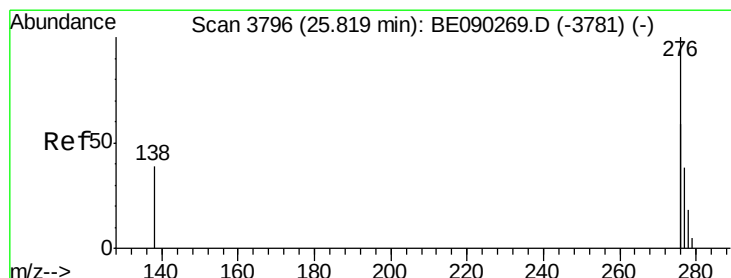
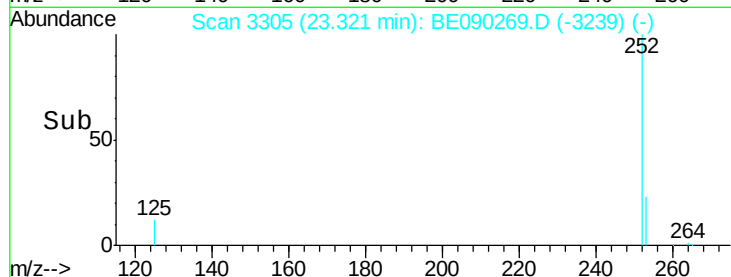
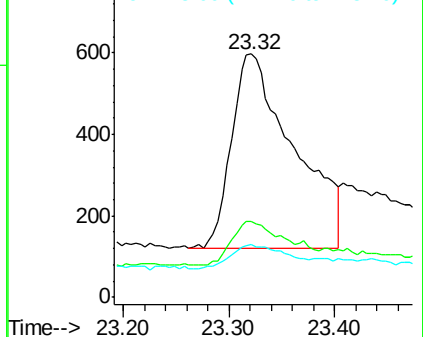
125 21.9 17.5 26.3



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



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.32 ng/ul

RT: 25.82 min Scan# 3796

Delta R.T. 0.00 min

Lab File: BE090269.D

Acq: 28 Jul 2015 13:40

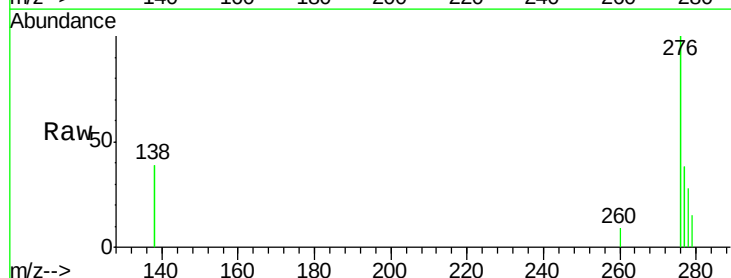
Tgt Ion: 276 Resp: 6196

Ion Ratio Lower Upper

276 100

138 16.9 13.5 20.3

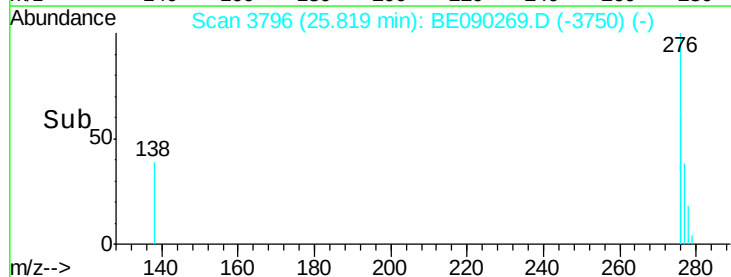
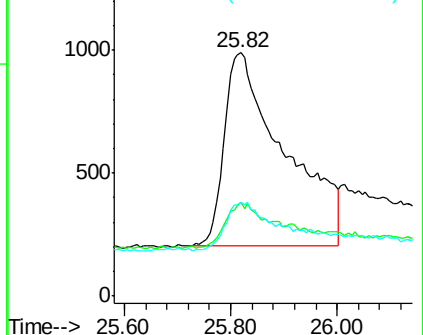
277 20.5 16.4 24.6

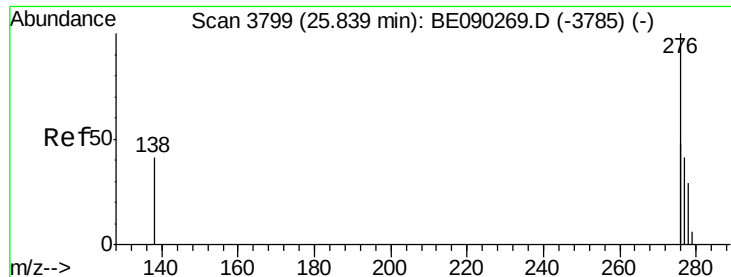


Abundance Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



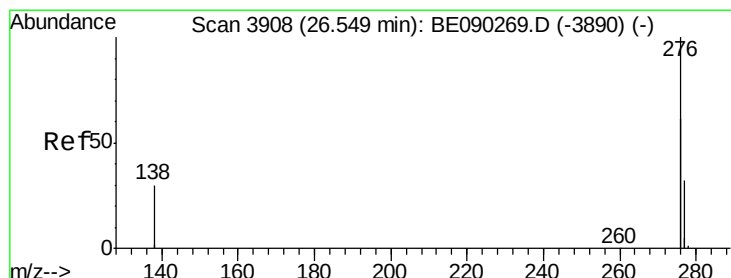
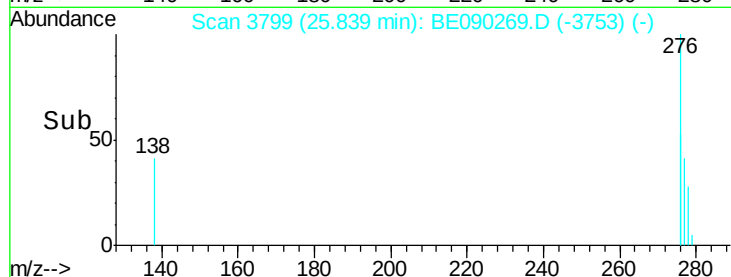
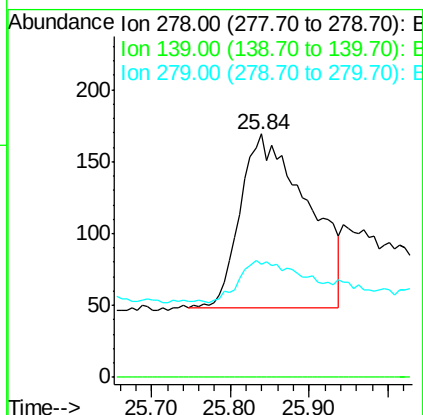
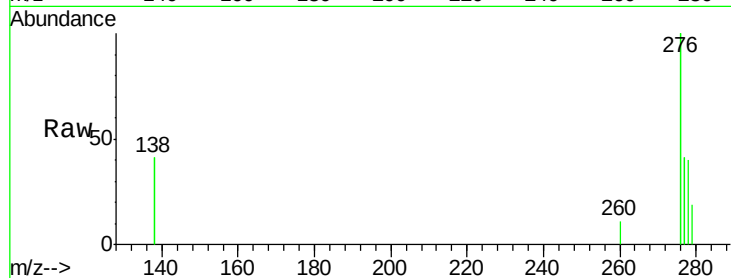


#25  
Dibenzo(a,h)anthracene  
Concen: 0.25 ng/ul  
RT: 25.84 min Scan# 3799  
Delta R.T. 0.00 min  
Lab File: BE090269.D  
Acq: 28 Jul 2015 13:40

Instrument :  
BNA\_E  
ClientSampleId :  
SSTD0.444

Tgt Ion: 278 Resp: 712  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 278 | 100   |       |       |
| 139 | 0.0   | 0.0   | 0.0   |
| 279 | 46.7  | 37.4  | 56.0  |



#26  
Benzo(g,h,i)perylene  
Concen: 0.35 ng/ul  
RT: 26.55 min Scan# 3908  
Delta R.T. 0.00 min  
Lab File: BE090269.D  
Acq: 28 Jul 2015 13:40

Tgt Ion: 276 Resp: 10316  

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 276 | 100   |       |       |
| 277 | 31.9  | 25.5  | 38.3  |
| 138 | 29.9  | 23.9  | 35.9  |

