

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061417\  
 Data File : BE093203.D  
 Acq On : 15 Jun 2017 11:43  
 Operator : SJ/MA  
 Sample : I3521-02  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5C18

Manual Integrations  
 APPROVED

mohammad  
 6/15/2017 3:54:39 PM

Quant Time: Jun 15 13:22:57 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Jun 15 07:58:47 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.74  | 152  | 3953     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.52 | 136  | 20355    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.37 | 164  | 12170    | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.10 | 188  | 27720    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.27 | 240  | 27347    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.67 | 264  | 22584m   | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152  | 5390     | 0.18   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.13 | 212  | 13609    | 0.18   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.57 | 128  | 27393    | 0.542  | ng/ul# | 91       |
| 5) 2-Methylnaphthalene      | 12.19 | 142  | 6749     | 0.195  | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.09 | 152  | 164721   | 3.154  | ng/ul  | 95       |
| 8) Acenaphthene             | 14.43 | 153  | 5391     | 0.128  | ng/ul  | 95       |
| 9) Fluorene                 | 15.42 | 166  | 6544     | 0.132  | ng/ul  | 94       |
| 12) Phenanthrene            | 17.13 | 178  | 88835    | 1.165  | ng/ul# | 84       |
| 13) Anthracene              | 17.24 | 178  | 242808   | 3.656  | ng/ul# | 92       |
| 15) Fluoranthene            | 19.16 | 202  | 1121495  | 11.990 | ng/ul  | 84       |
| 17) Pyrene                  | 19.52 | 202  | 1636682  | 20.294 | ng/ul# | 88       |
| 18) Benzo(a)anthracene      | 21.25 | 228  | 1001676  | 13.732 | ng/ul# | 83       |
| 19) Chrysene                | 21.30 | 228  | 1098312  | 14.515 | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.95 | 252  | 2053348  | 29.960 | ng/ul  | 88       |
| 22) Benzo(k)fluoranthene    | 22.99 | 252  | 623804m  | 8.570  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.58 | 252  | 1070223m | 16.515 | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 26.20 | 276  | 724344m  | 9.653  | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 26.21 | 278  | 196215m  | 3.105  | ng/ul  |          |
| 26) Benzo(g,h,i)perylene    | 26.98 | 276  | 549731   | 8.543  | ng/ul  | 96       |

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

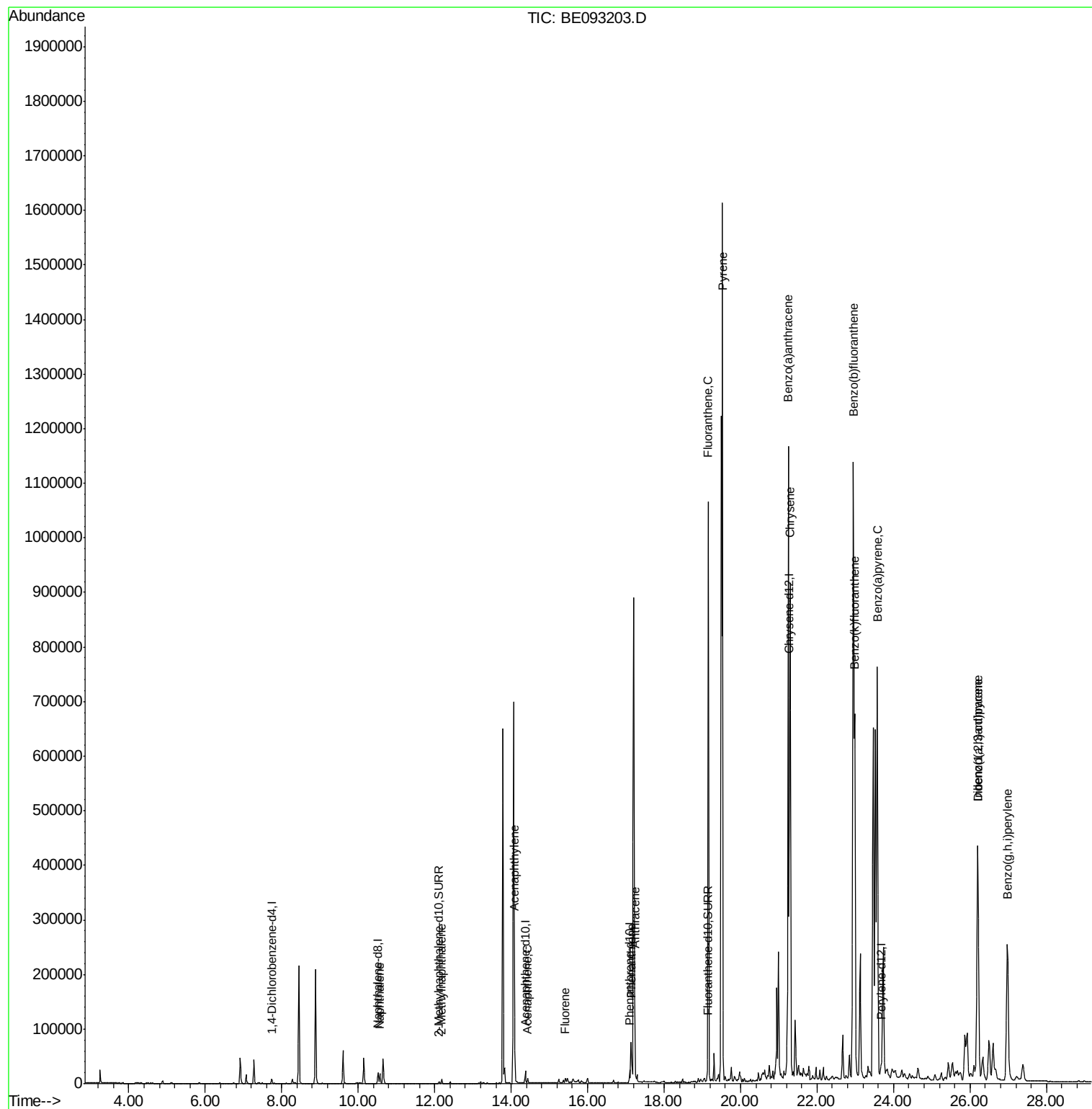
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061417\  
Data File : BE093203.D  
Acq On : 15 Jun 2017 11:43  
Operator : SJ/MA  
Sample : I3521-02  
Misc :  
ALS Vial : 38 Sample Multiplier: 1

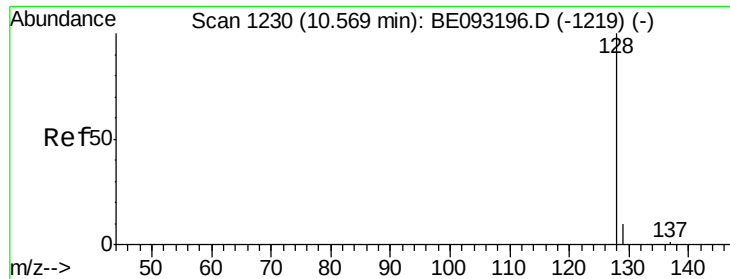
Instrument :  
BNA\_E  
ClientSampleId :  
F5C18

Manual Integrations  
APPROVED

mohammad  
6/15/2017 3:54:39 PM

Quant Time: Jun 15 13:22:57 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Jun 15 07:58:47 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.542 ng/ul

RT: 10.57 min Scan# 1230

Delta R.T. -0.00 min

Lab File: BE093203.D

Acq: 15 Jun 2017 11:43

Instrument :

BNA\_E

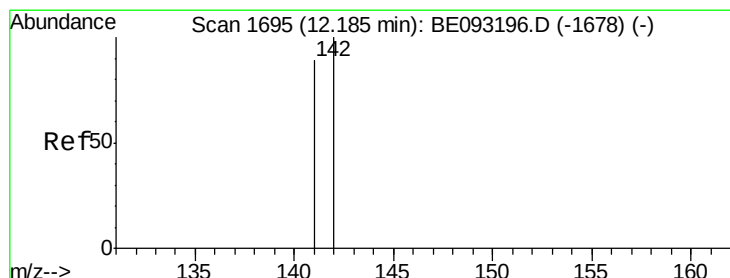
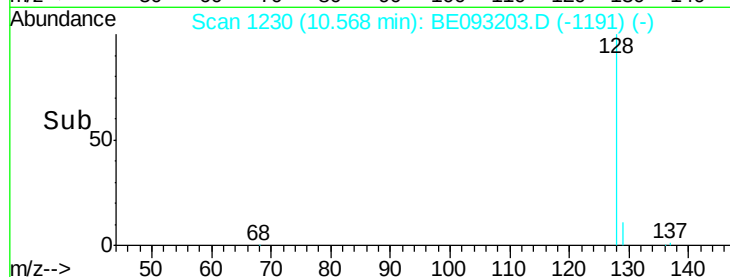
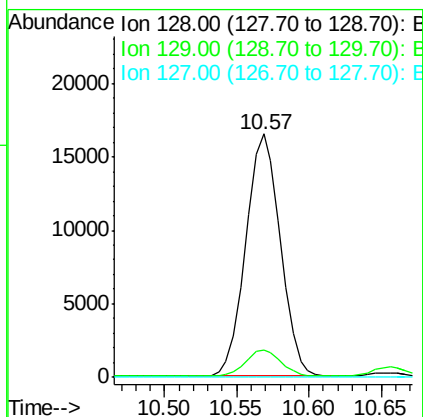
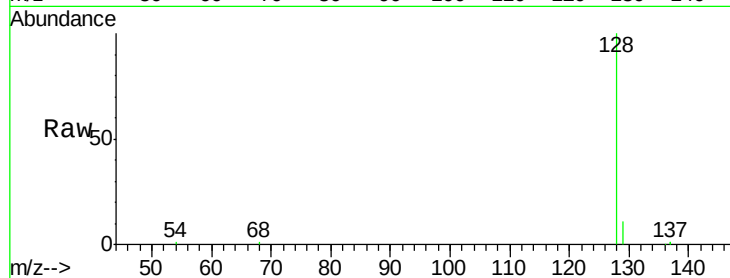
ClientSampleId :

F5C18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 27393 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.4  | 11.3  | 16.9  |
| 127       | 0.0   | 4.0   | 6.0#  |

Manual Integrations  
APPROVED

mohammad  
6/15/2017 3:54:39 PM



#5

2-Methylnaphthalene

Concen: 0.195 ng/ul

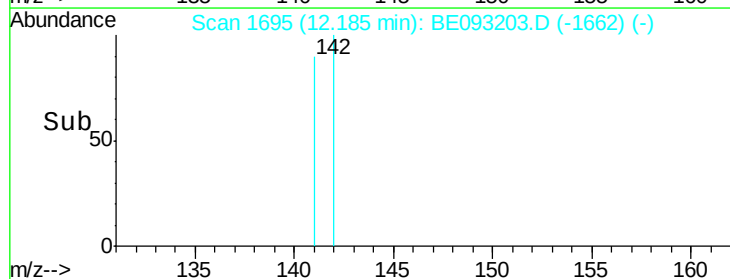
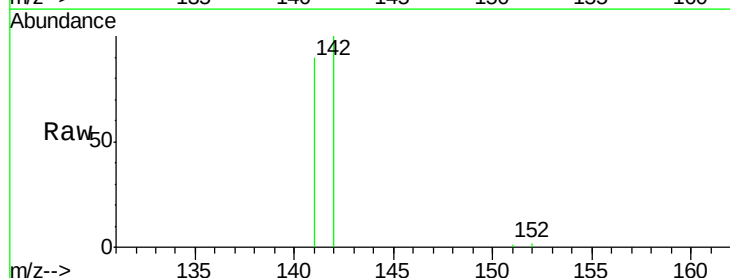
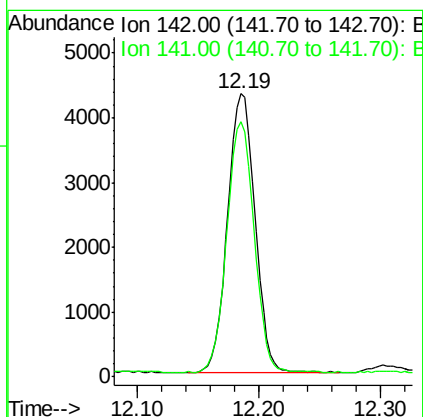
RT: 12.19 min Scan# 1695

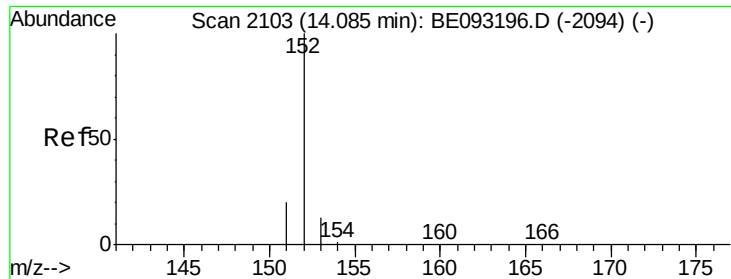
Delta R.T. 0.00 min

Lab File: BE093203.D

Acq: 15 Jun 2017 11:43

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 6749  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 89.5  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 3.154 ng/ul

RT: 14.09 min Scan# 2103

Delta R.T. 0.00 min

Lab File: BE093203.D

Acq: 15 Jun 2017 11:43

Instrument :

BNA\_E

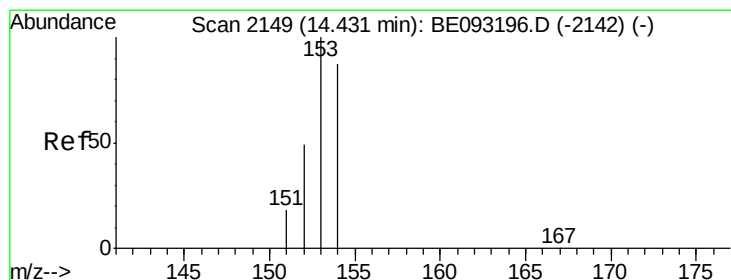
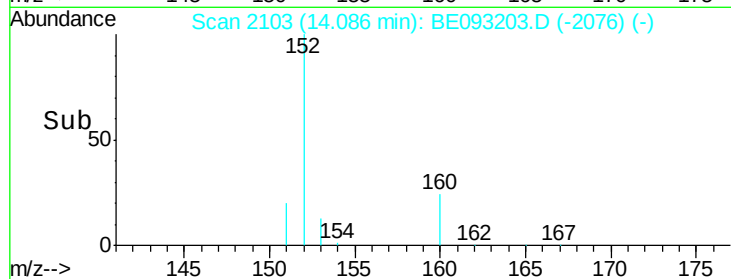
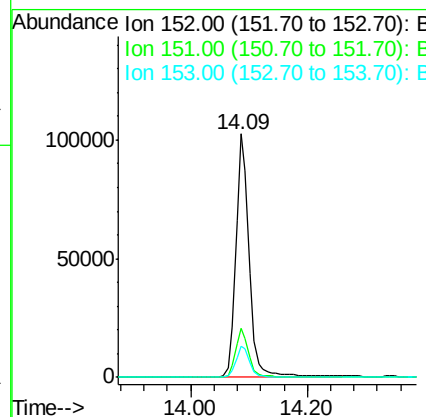
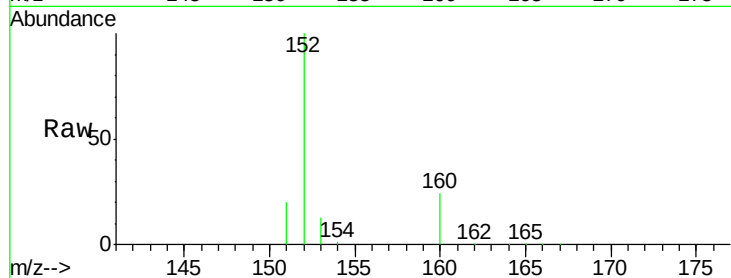
ClientSampleId :

F5C18

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 152     | 100   | 164721 |       |       |
| 151     | 20.1  | 17.1   | 25.7  |       |
| 153     | 13.1  | 12.8   | 19.2  |       |

Manual Integrations  
APPROVED

mohammad  
6/15/2017 3:54:39 PM



#8

Acenaphthene

Concen: 0.128 ng/ul

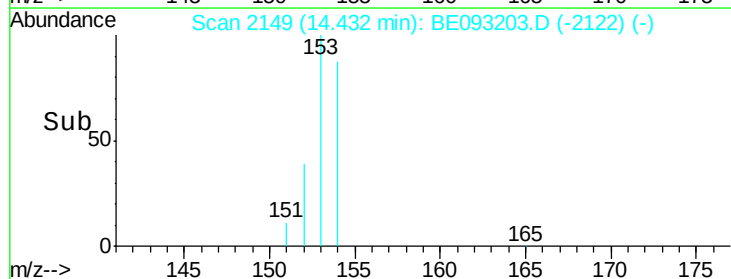
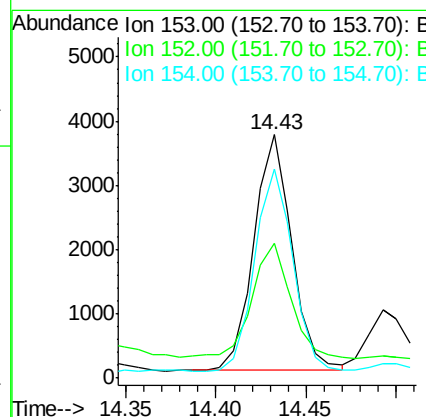
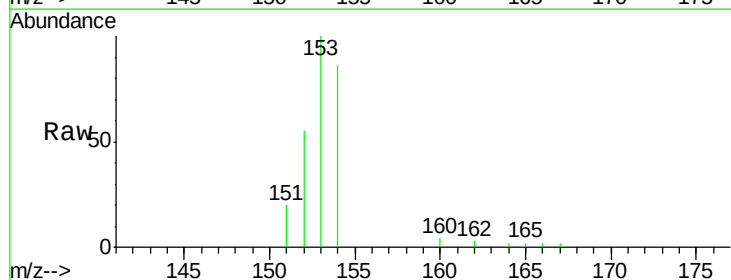
RT: 14.43 min Scan# 2149

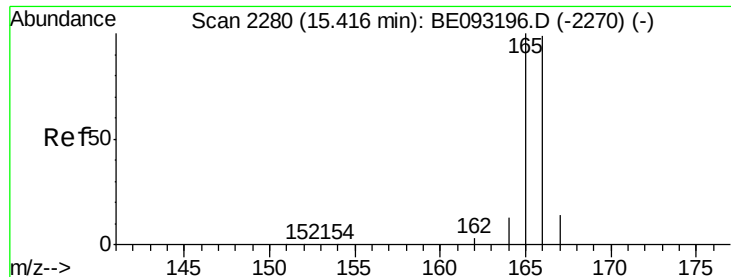
Delta R.T. 0.00 min

Lab File: BE093203.D

Acq: 15 Jun 2017 11:43

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 153     | 100   | 5391 |       |       |
| 152     | 55.2  | 40.3 | 60.5  |       |
| 154     | 85.8  | 71.4 | 107.2 |       |





#9

Fluorene

Concen: 0.132 ng/ul

RT: 15.42 min Scan# 2280

Delta R.T. 0.00 min

Lab File: BE093203.D

Acq: 15 Jun 2017 11:43

Instrument :

BNA\_E

ClientSampleId :

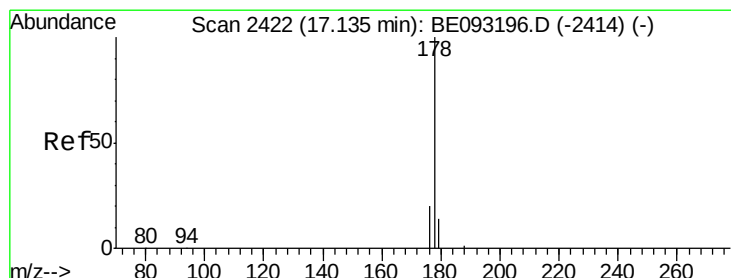
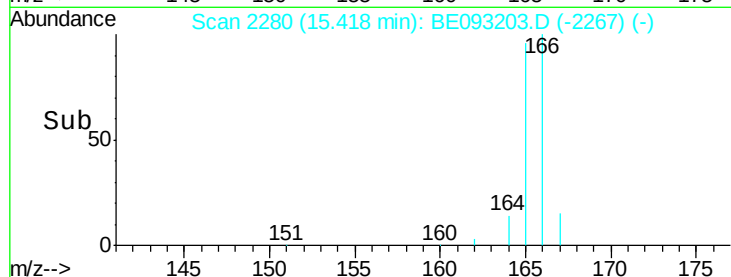
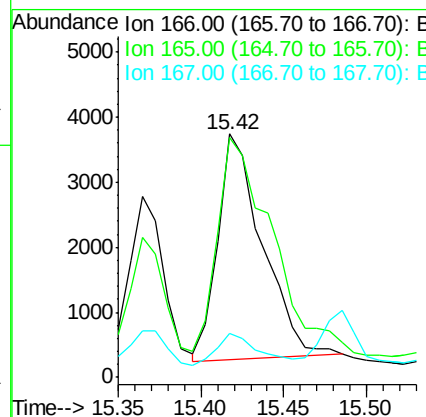
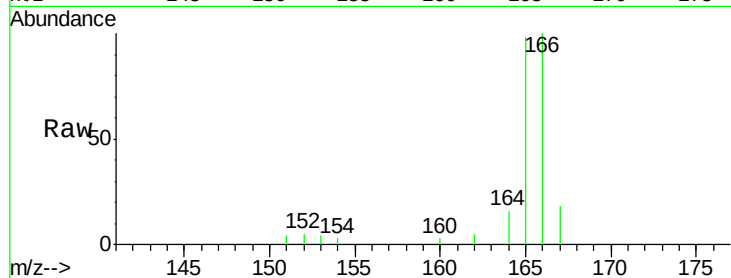
F5C18

Tgt Ion:166 Resp: 6544

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 166 | 100   |       |       |
| 165 | 98.4  | 73.4  | 110.2 |
| 167 | 17.9  | 14.6  | 22.0  |

Manual Integrations  
APPROVED

mohammad  
6/15/2017 3:54:39 PM



#12

Phenanthrene

Concen: 1.165 ng/ul

RT: 17.13 min Scan# 2422

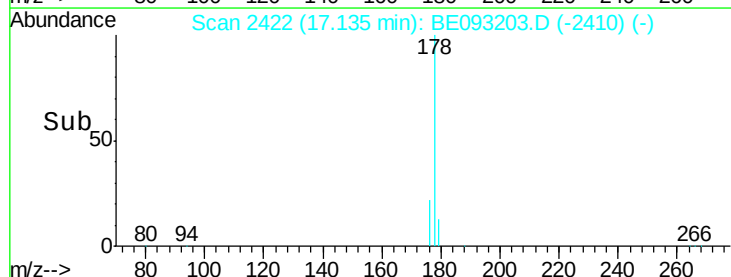
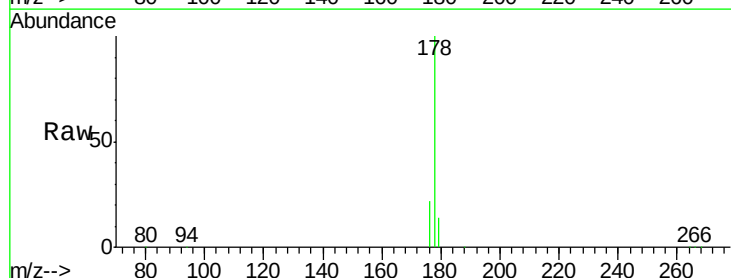
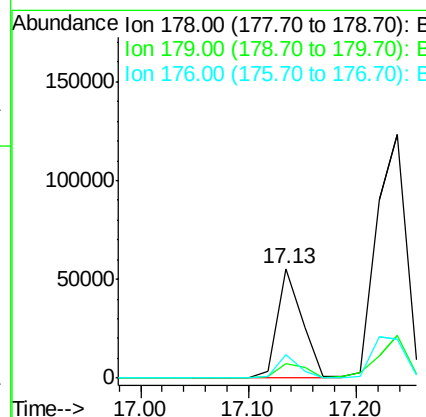
Delta R.T. -0.00 min

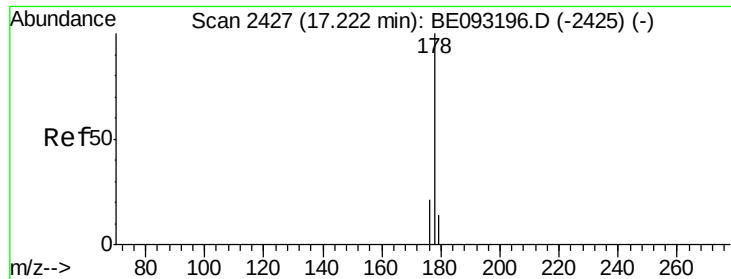
Lab File: BE093203.D

Acq: 15 Jun 2017 11:43

Tgt Ion:178 Resp: 88835

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 13.8  | 18.4  | 27.6# |
| 176 | 21.7  | 13.6  | 20.4# |





#13

Anthracene

Concen: 3.656 ng/ul

RT: 17.24 min Scan# 2428

Delta R.T. 0.02 min

Lab File: BE093203.D

Acq: 15 Jun 2017 11:43

Instrument :

BNA\_E

ClientSampleId :

F5C18

Tgt Ion:178 Resp: 242808

Ion Ratio Lower Upper

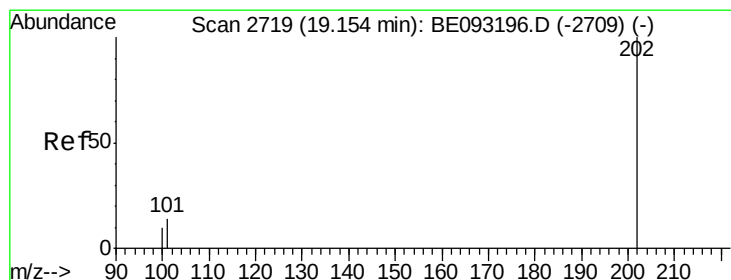
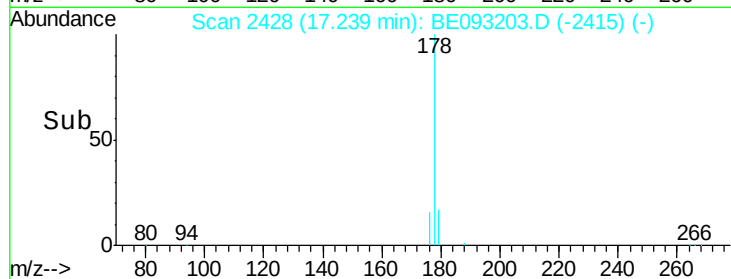
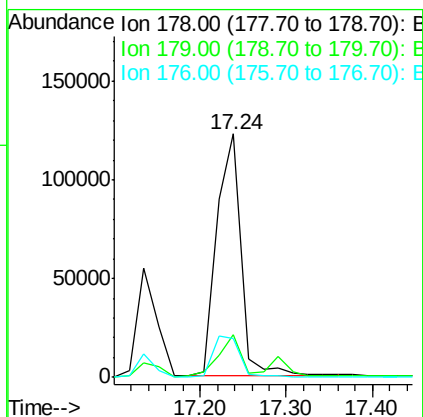
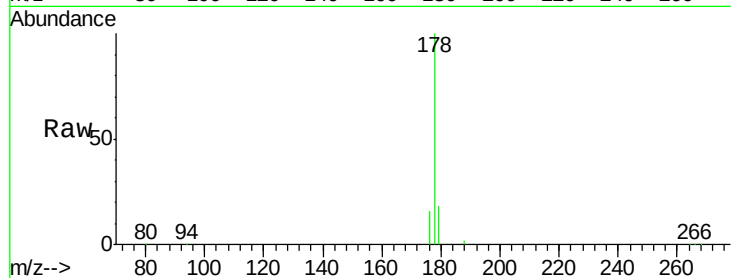
178 100

179 17.7 18.1 27.1#

176 15.9 14.7 22.1

Manual Integrations  
APPROVED

mohammad  
6/15/2017 3:54:39 PM



#15

Fluoranthene

Concen: 11.990 ng/ul

RT: 19.16 min Scan# 2720

Delta R.T. 0.00 min

Lab File: BE093203.D

Acq: 15 Jun 2017 11:43

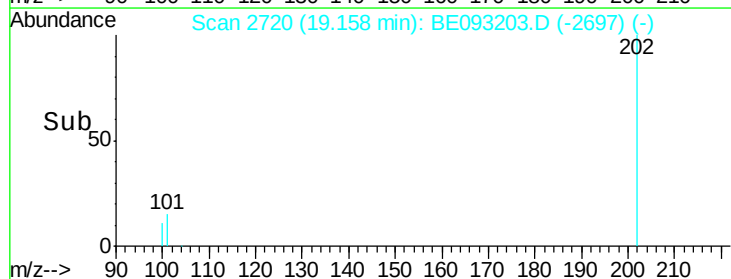
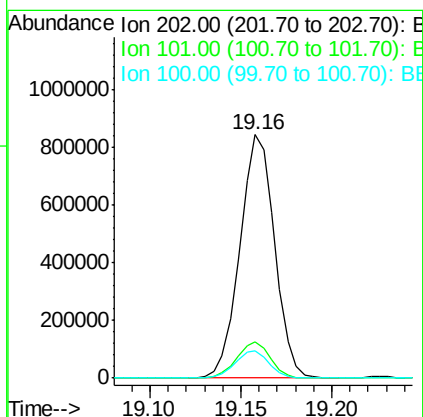
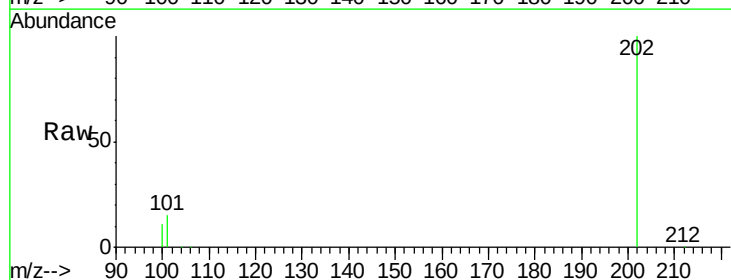
Tgt Ion:202 Resp: 1121495

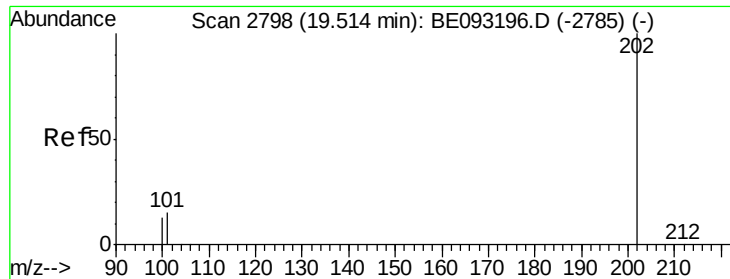
Ion Ratio Lower Upper

202 100

101 14.8 0.0 30.3

100 11.2 0.0 39.5





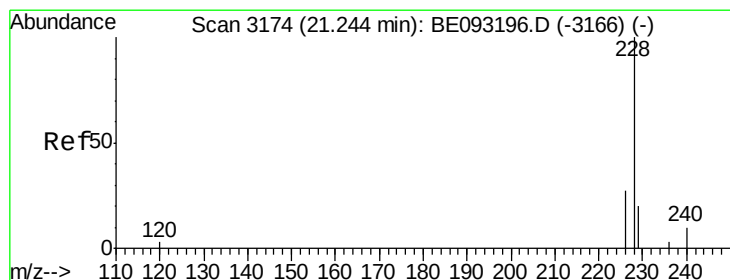
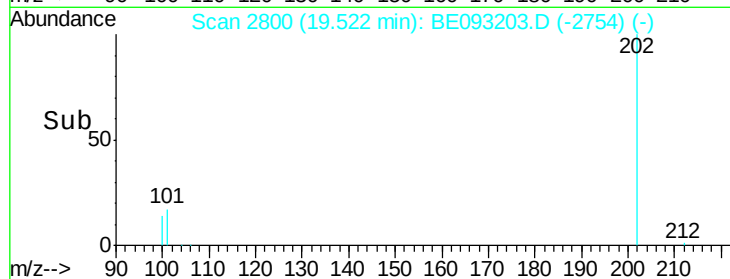
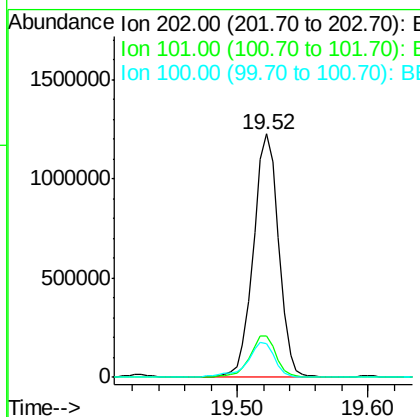
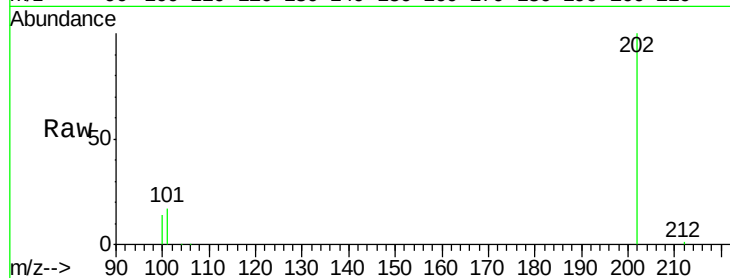
#17  
**Pyrene**  
 Concen: 20.294 ng/ul  
 RT: 19.52 min Scan# 2800  
 Delta R.T. 0.01 min  
 Lab File: BE093203.D  
 Acq: 15 Jun 2017 11:43

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5C18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 17.1  | 18.2  | 27.4# |
| 100     | 13.7  | 15.6  | 23.4# |

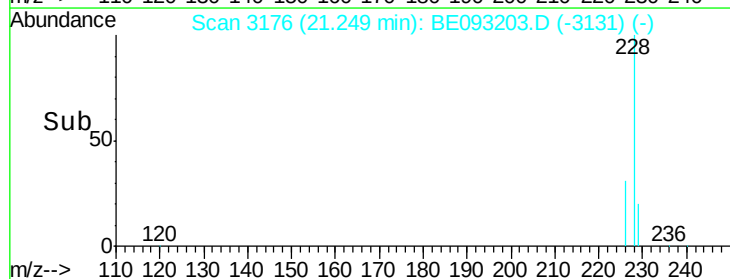
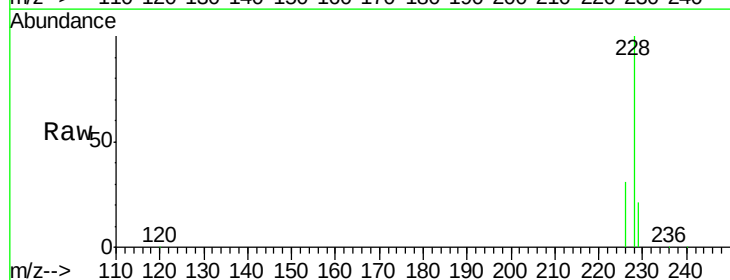
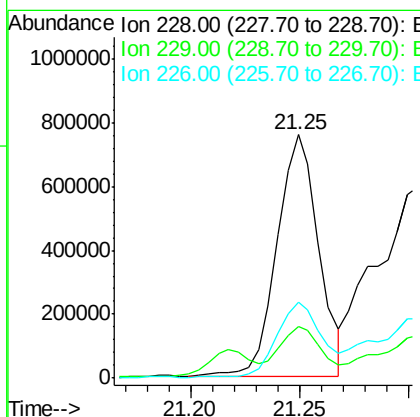
Manual Integrations  
 APPROVED

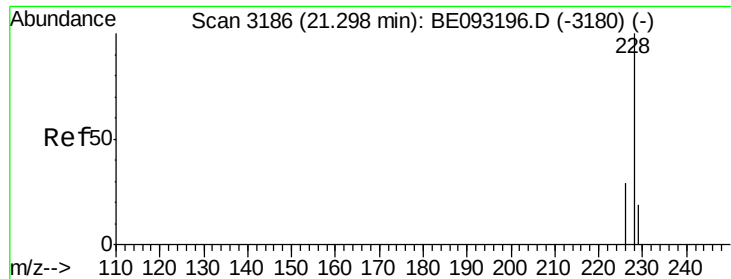
mohammad  
 6/15/2017 3:54:39 PM



#18  
**Benzo(a)anthracene**  
 Concen: 13.732 ng/ul  
 RT: 21.25 min Scan# 3176  
 Delta R.T. 0.01 min  
 Lab File: BE093203.D  
 Acq: 15 Jun 2017 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.1  | 22.8  | 34.2# |
| 226     | 31.2  | 17.0  | 25.6# |





#19

Chrysene

Concen: 14.515 ng/ul

RT: 21.30 min Scan# 3188

Delta R.T. 0.01 min

Lab File: BE093203.D

Acq: 15 Jun 2017 11:43

Instrument :

BNA\_E

ClientSampled :

F5C18

Tgt Ion:228 Resp: 1098312

Ion Ratio Lower Upper

228 100

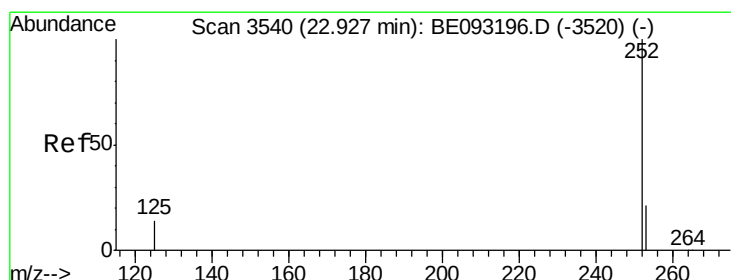
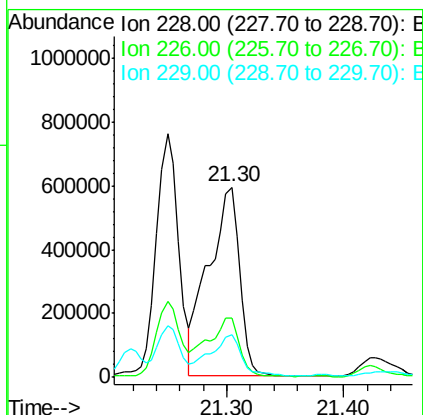
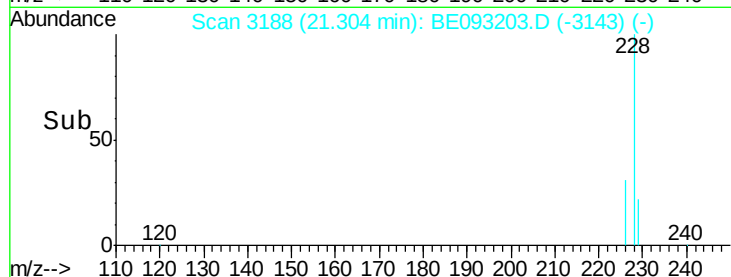
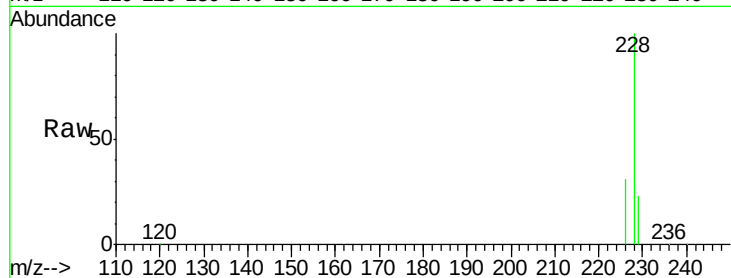
226 31.0 23.4 35.0

229 22.5 17.7 26.5

Manual Integrations  
APPROVED

mohammad

6/15/2017 3:54:39 PM



#21

Benzo(b)fluoranthene

Concen: 29.960 ng/ul

RT: 22.95 min Scan# 3546

Delta R.T. 0.02 min

Lab File: BE093203.D

Acq: 15 Jun 2017 11:43

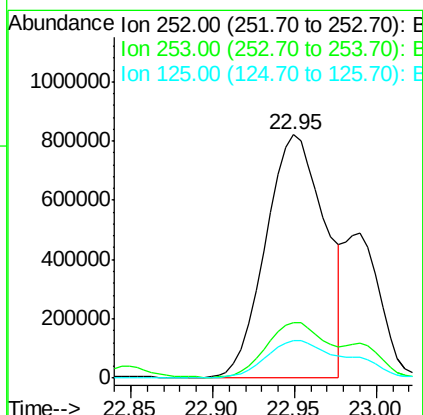
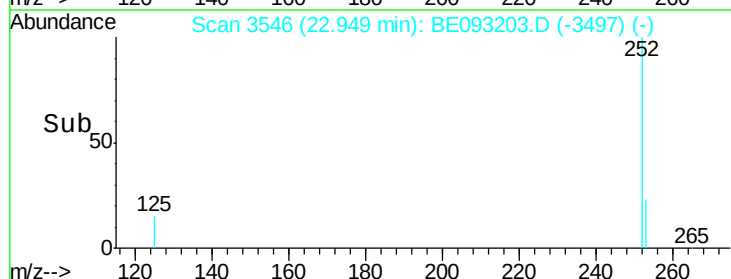
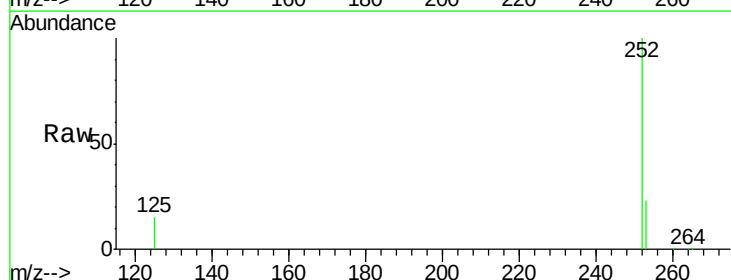
Tgt Ion:252 Resp: 2053348

Ion Ratio Lower Upper

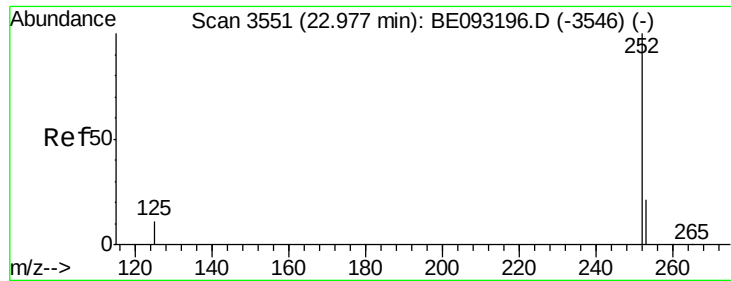
252 100

253 22.9 0.0 64.2

125 15.4 0.0 35.0







#22

Benzo(k)fluoranthene

Concen: 8.570 ng/ul m

RT: 22.99 min Scan# 3555

Delta R.T. 0.01 min

Lab File: BE093203.D

Acq: 15 Jun 2017 11:43

Instrument :

BNA\_E

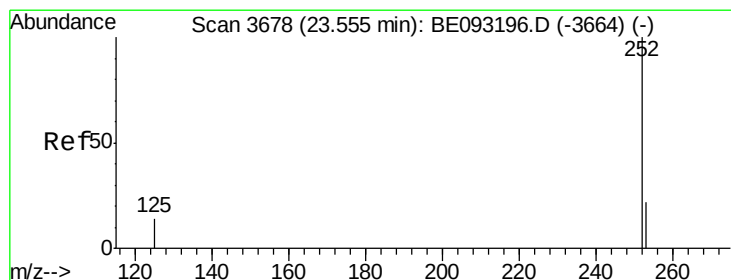
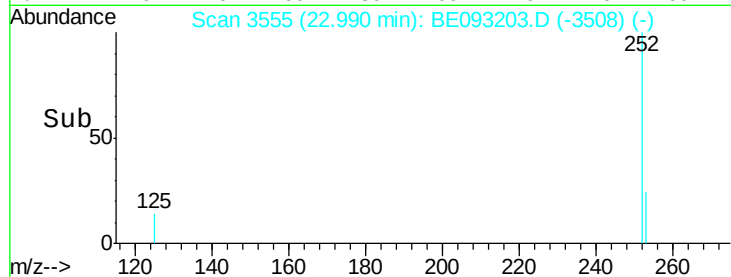
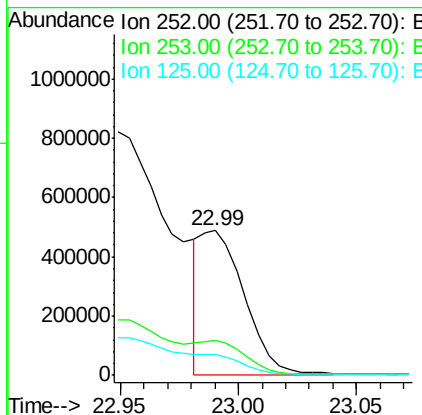
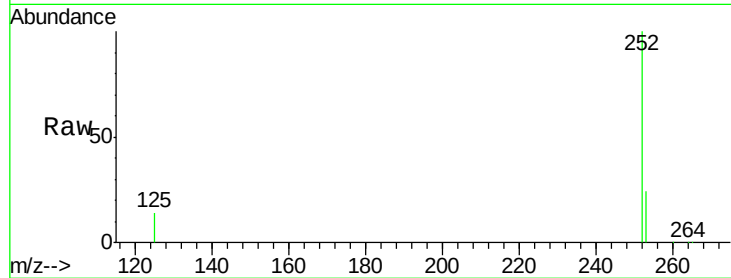
ClientSampled :

F5C18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.0  | 24.5  | 36.7# |
| 125     | 14.4  | 13.7  | 20.5  |

Manual Integrations  
APPROVED

mohammad  
6/15/2017 3:54:39 PM



#23

Benzo(a)pyrene

Concen: 16.515 ng/ul m

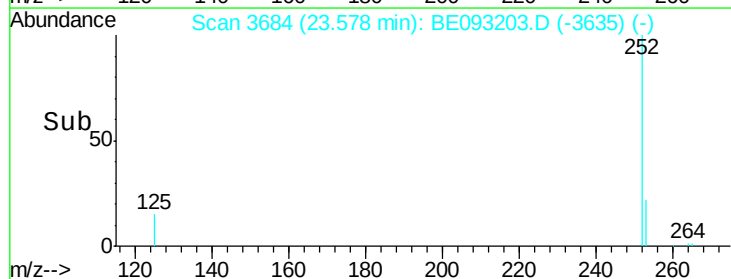
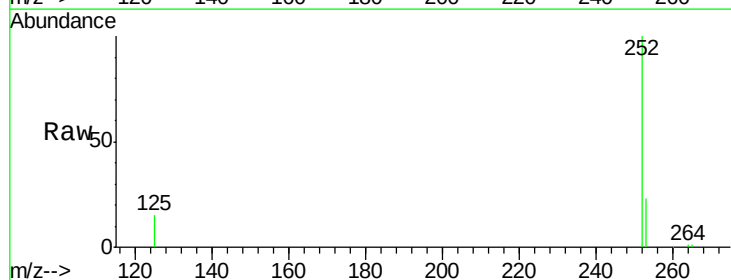
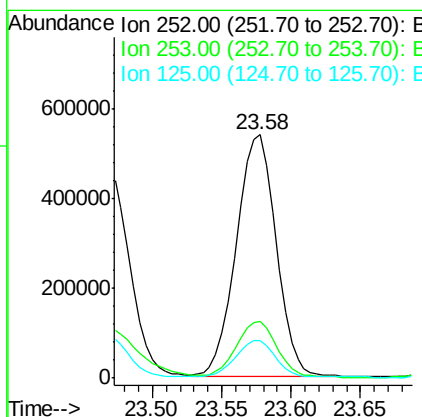
RT: 23.58 min Scan# 3684

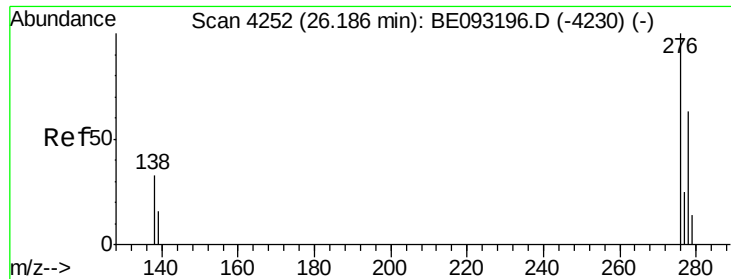
Delta R.T. 0.02 min

Lab File: BE093203.D

Acq: 15 Jun 2017 11:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.4  | 28.5  | 42.7# |
| 125     | 15.4  | 18.1  | 27.1# |





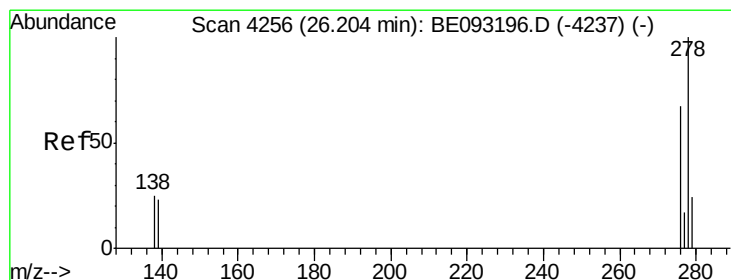
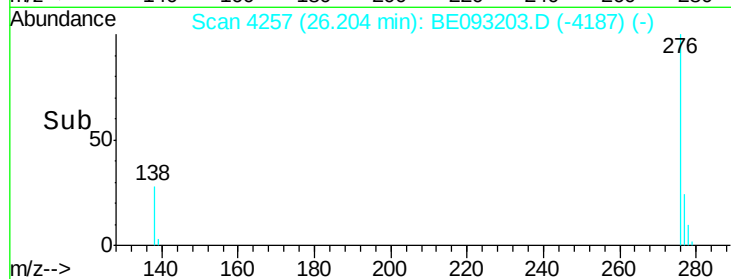
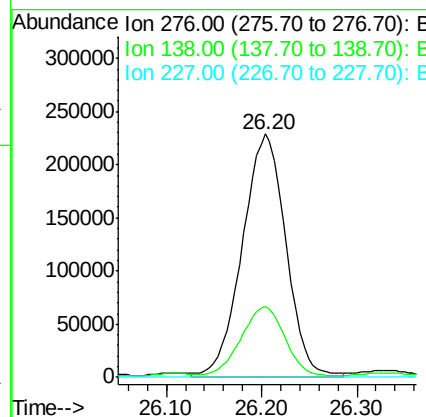
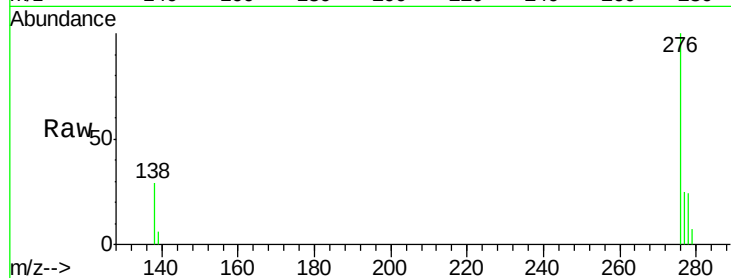
#24  
Indeno(1,2,3-cd)pyrene  
Concen: 9.653 ng/ul m  
RT: 26.20 min Scan# 4257  
Delta R.T. 0.02 min  
Lab File: BE093203.D  
Acq: 15 Jun 2017 11:43

Instrument :  
BNA\_E  
ClientSampleId :  
F5C18

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 724344 |       |       |
| 138     | 3.1   | 28.0   | 42.0# |       |
| 227     | 0.0   | 8.0    | 12.0# |       |

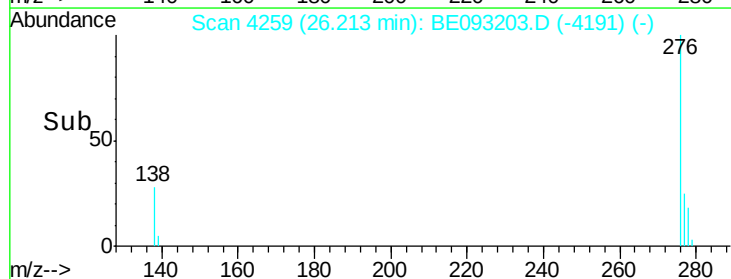
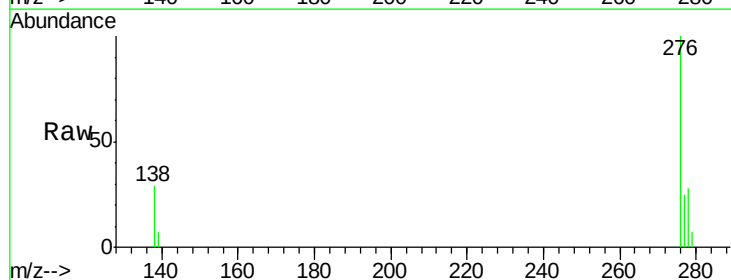
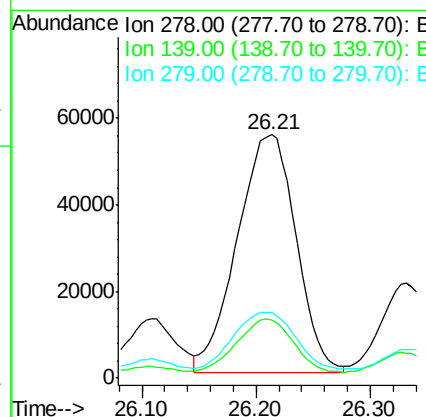
Manual Integrations  
APPROVED

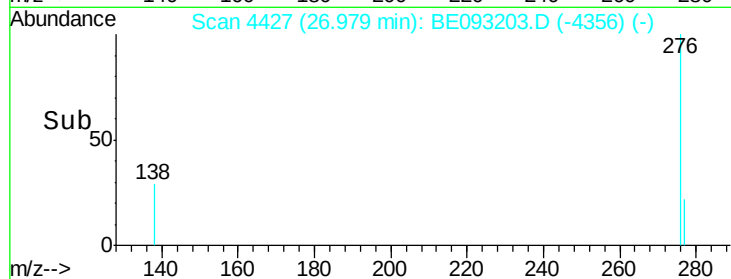
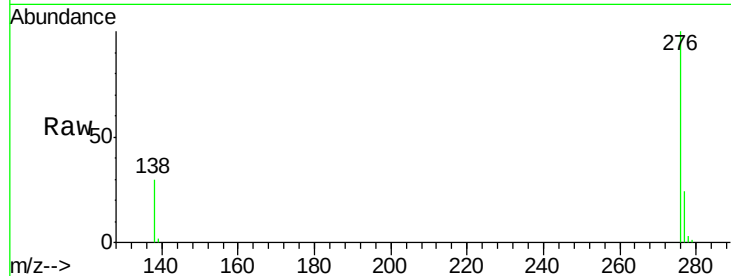
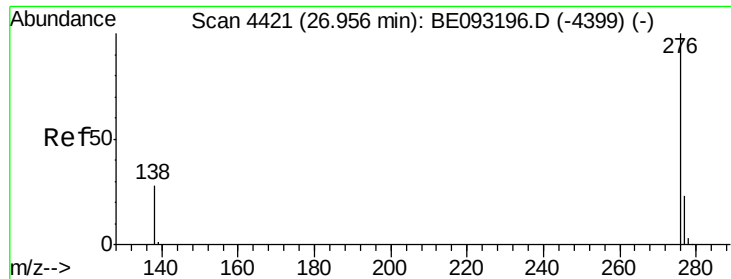
mohammad  
6/15/2017 3:54:39 PM



#25  
Dibenzo(a,h)anthracene  
Concen: 3.105 ng/ul m  
RT: 26.21 min Scan# 4259  
Delta R.T. 0.01 min  
Lab File: BE093203.D  
Acq: 15 Jun 2017 11:43

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 278     | 100   | 196215 |       |       |
| 139     | 23.7  | 17.4   | 26.0  |       |
| 279     | 26.7  | 25.9   | 38.9  |       |





#26

Benzo(g,h,i)perylene

Concen: 8.543 ng/ul

RT: 26.98 min Scan# 4427

Delta R.T. 0.02 min

Lab File: BE093203.D

Acq: 15 Jun 2017 11:43

Instrument :

BNA\_E

ClientSampleId :

F5C18

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 276 | 100  |       |       |       |
| 138 | 29.8 | 21.8  | 32.8  |       |
| 277 | 24.1 | 20.5  | 30.7  |       |

Manual Integrations  
APPROVED

mohammad  
6/15/2017 3:54:39 PM

