

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061517\  
 Data File : BE093219.D  
 Acq On : 15 Jun 2017 21:46  
 Operator : SJ/MA  
 Sample : I3521-17DL 5X  
 Misc :  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5C60DL

Manual Integrations  
 APPROVED

mohammad  
 6/19/2017 11:06:50 AM

Quant Time: Jun 16 05:22:18 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 16 04:43:11 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.74  | 152  | 2839     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.52 | 136  | 14853    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.37 | 164  | 9005     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.10 | 188  | 21017    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.26 | 240  | 21295    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.67 | 264  | 19621    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152  | 1718     | 0.08   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.13 | 212  | 4304     | 0.08   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.57 | 128  | 1916     | 0.052  | ng/ul# | 95       |
| 5) 2-Methylnaphthalene      | 12.19 | 142  | 504      | 0.020  | ng/ul  | 97       |
| 7) Acenaphthylene           | 14.09 | 152  | 7455     | 0.193  | ng/ul  | 98       |
| 12) Phenanthrene            | 17.13 | 178  | 5600     | 0.097  | ng/ul# | 87       |
| 13) Anthracene              | 17.22 | 178  | 8157     | 0.162  | ng/ul# | 88       |
| 15) Fluoranthene            | 19.16 | 202  | 50331    | 0.710  | ng/ul  | 83       |
| 17) Pyrene                  | 19.52 | 202  | 70388    | 1.121  | ng/ul# | 82       |
| 18) Benzo(a)anthracene      | 21.25 | 228  | 33039    | 0.582  | ng/ul# | 85       |
| 19) Chrysene                | 21.30 | 228  | 40893    | 0.694  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.93 | 252  | 83314m   | 1.399  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.98 | 252  | 28164m   | 0.445  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.56 | 252  | 41885    | 0.744  | ng/ul# | 82       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.18 | 276  | 29743    | 0.456  | ng/ul# | 86       |
| 25) Dibenzo(a,h)anthracene  | 26.20 | 278  | 7181     | 0.131  | ng/ul# | 86       |
| 26) Benzo(g,h,i)perylene    | 26.96 | 276  | 24617    | 0.440  | ng/ul  | 97       |

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

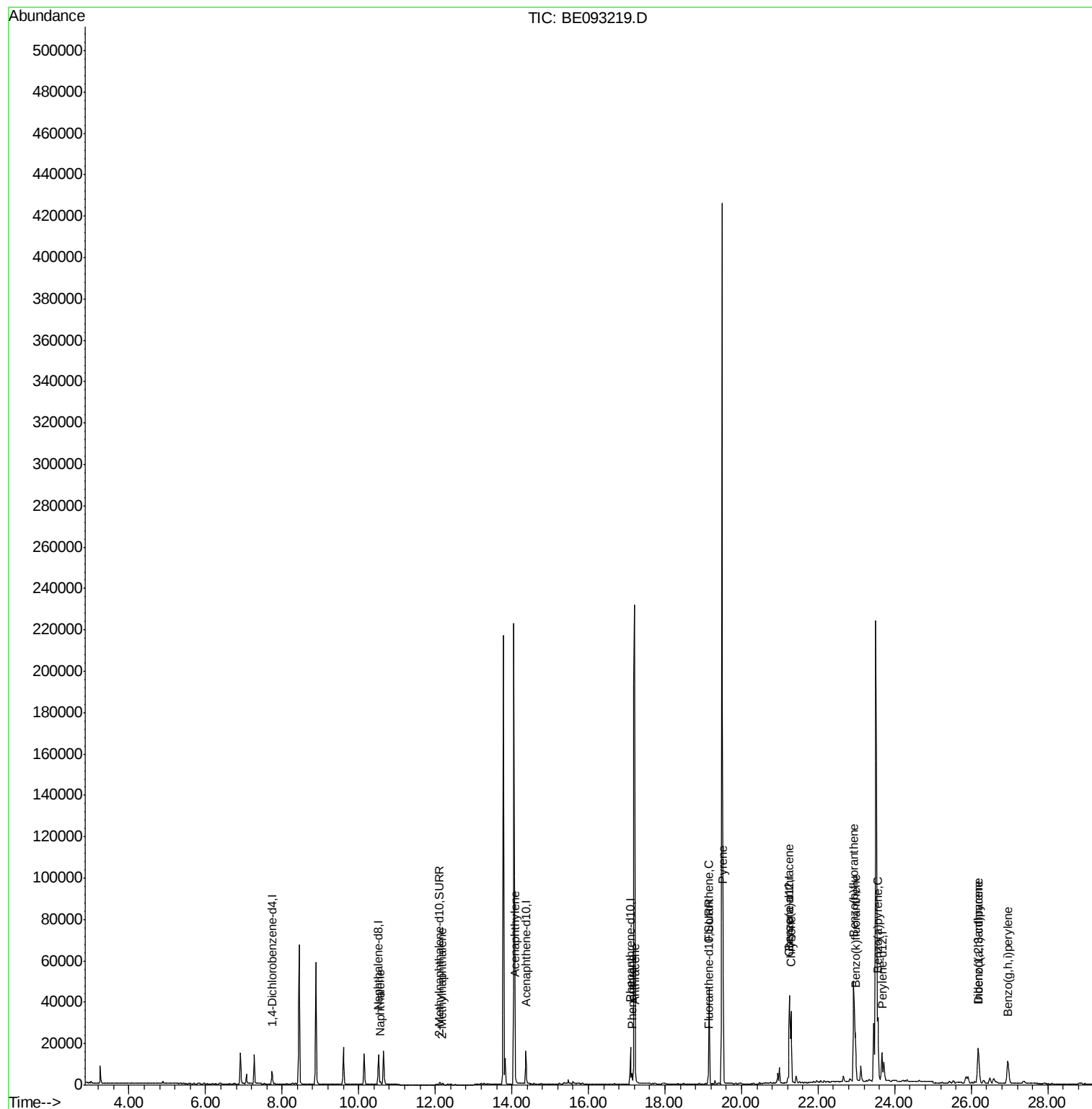
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061517\  
Data File : BE093219.D  
Acq On : 15 Jun 2017 21:46  
Operator : SJ/MA  
Sample : I3521-17DL 5X  
Misc :  
ALS Vial : 14 Sample Multiplier: 1

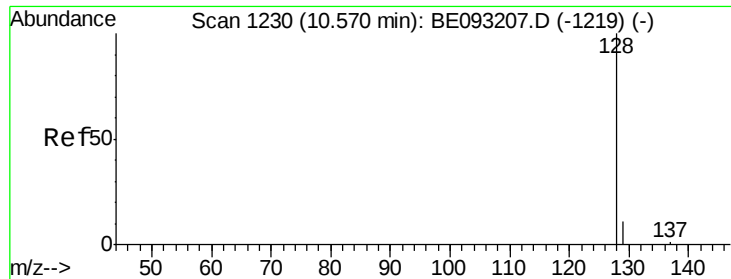
Instrument :  
BNA\_E  
ClientSampleId :  
F5C60DL

Manual Integrations  
APPROVED

mohammad  
6/19/2017 11:06:50 AM

Quant Time: Jun 16 05:22:18 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 16 04:43:11 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.052 ng/ul

RT: 10.57 min Scan# 1230

Delta R.T. -0.00 min

Lab File: BE093219.D

Acq: 15 Jun 2017 21:46

Instrument :

BNA\_E

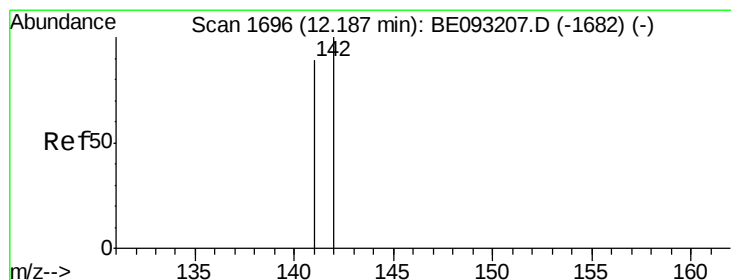
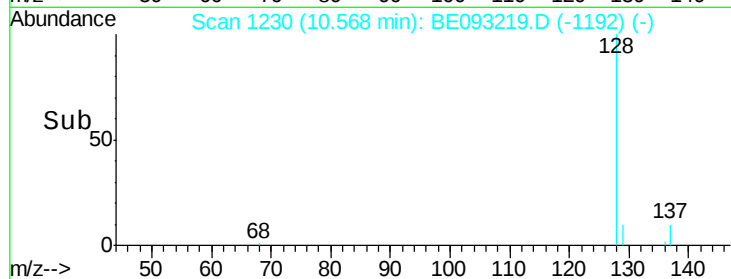
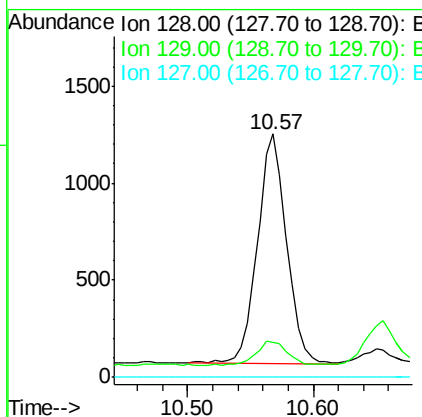
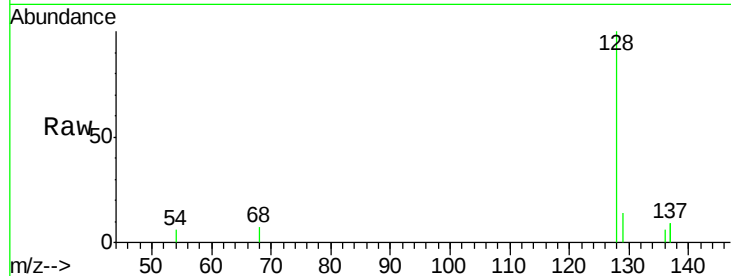
ClientSampleId :

F5C60DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 14.4  | 11.3  | 16.9  |
| 127     | 0.0   | 4.0   | 6.0   |

Manual Integrations  
APPROVED

mohammad  
6/19/2017 11:06:50 AM



#5

2-Methylnaphthalene

Concen: 0.020 ng/ul

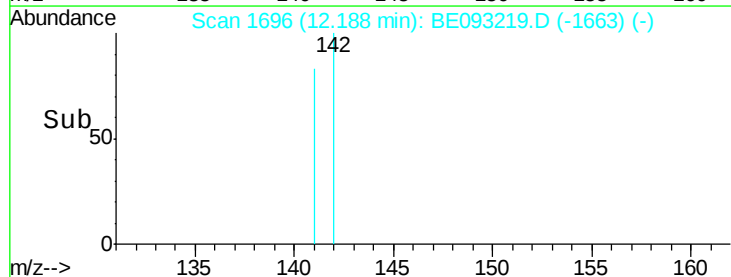
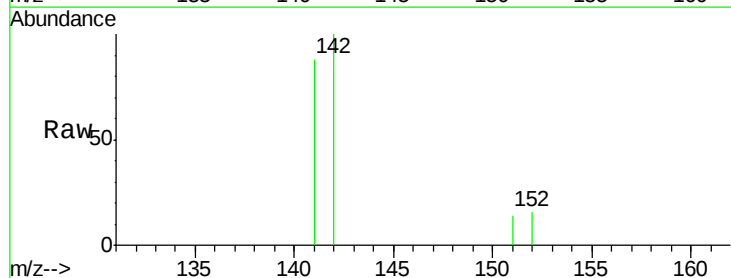
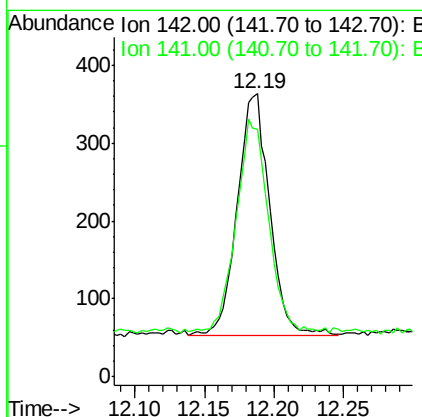
RT: 12.19 min Scan# 1696

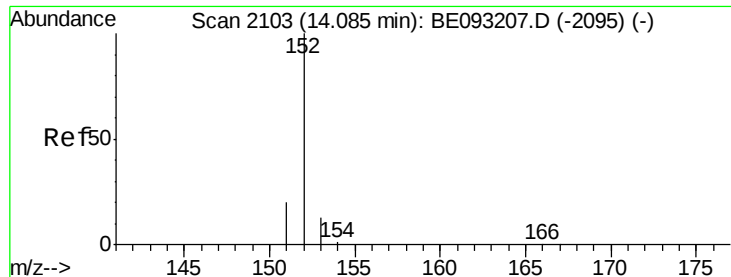
Delta R.T. 0.00 min

Lab File: BE093219.D

Acq: 15 Jun 2017 21:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 87.9  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 0.193 ng/ul

RT: 14.09 min Scan# 2103

Delta R.T. 0.00 min

Lab File: BE093219.D

Acq: 15 Jun 2017 21:46

Instrument :

BNA\_E

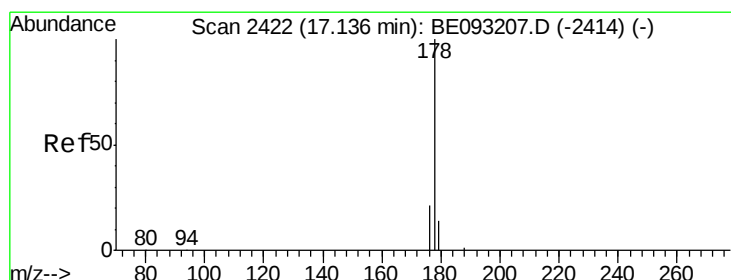
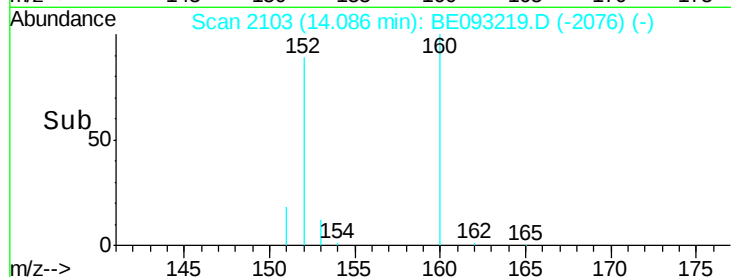
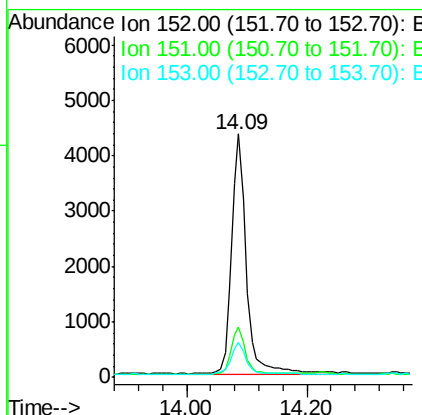
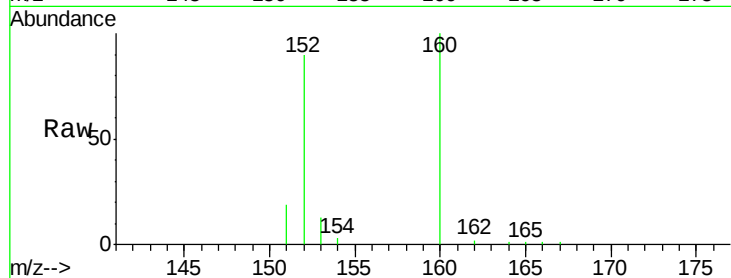
ClientSampleId :

F5C60DL

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 152 | 100  |       |       |       |
| 151 | 20.8 | 17.1  | 25.7  |       |
| 153 | 14.4 | 12.8  | 19.2  |       |

Manual Integrations  
APPROVED

mohammad  
6/19/2017 11:06:50 AM



#12

Phenanthrene

Concen: 0.097 ng/ul

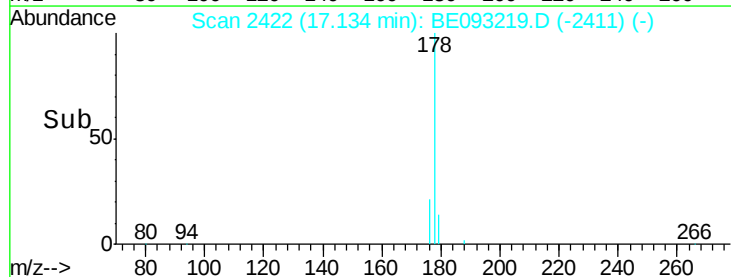
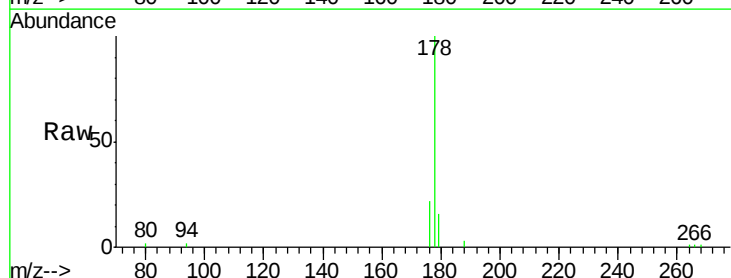
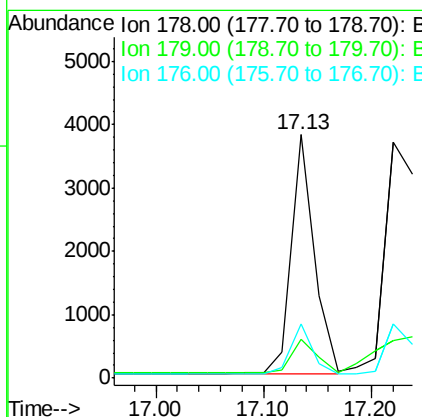
RT: 17.13 min Scan# 2422

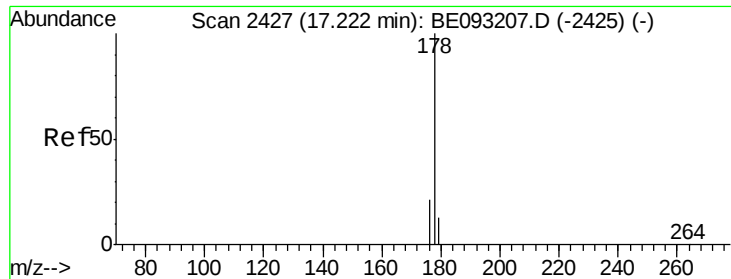
Delta R.T. -0.00 min

Lab File: BE093219.D

Acq: 15 Jun 2017 21:46

| Tgt | Ion  | Ratio | Lower | Upper |
|-----|------|-------|-------|-------|
| 178 | 100  |       |       |       |
| 179 | 16.1 | 18.4  | 27.6# |       |
| 176 | 22.3 | 13.6  | 20.4# |       |





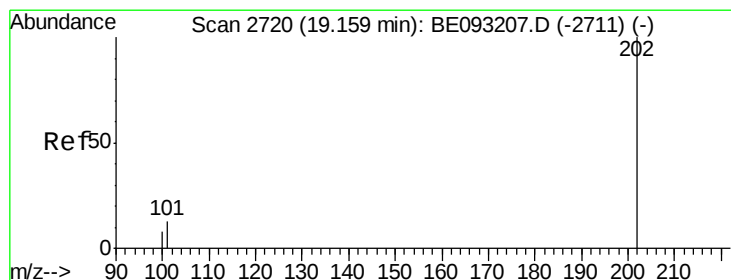
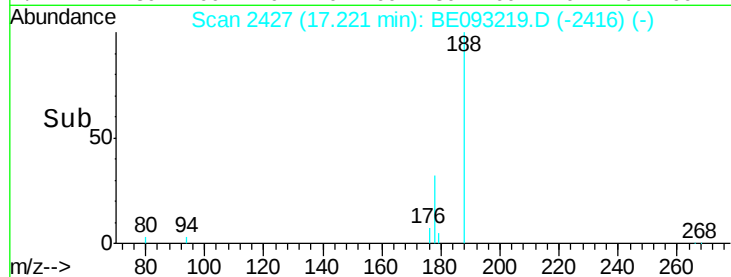
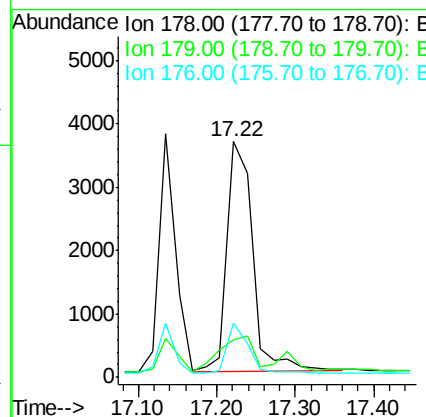
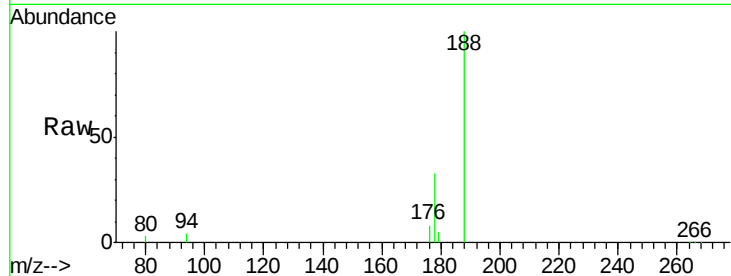
#13  
 Anthracene  
 Concen: 0.162 ng/ul  
 RT: 17.22 min Scan# 2427  
 Delta R.T. -0.00 min  
 Lab File: BE093219.D  
 Acq: 15 Jun 2017 21:46

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5C60DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.0  | 18.1  | 27.1# |
| 176     | 22.9  | 14.7  | 22.1# |

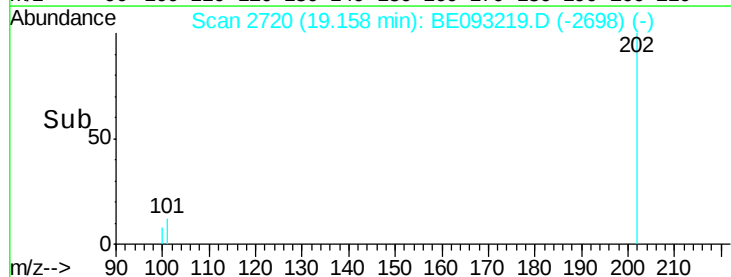
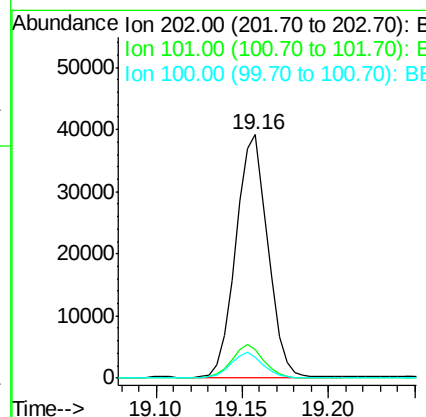
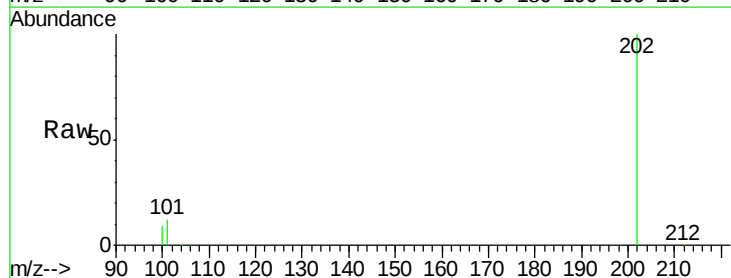
Manual Integrations  
 APPROVED

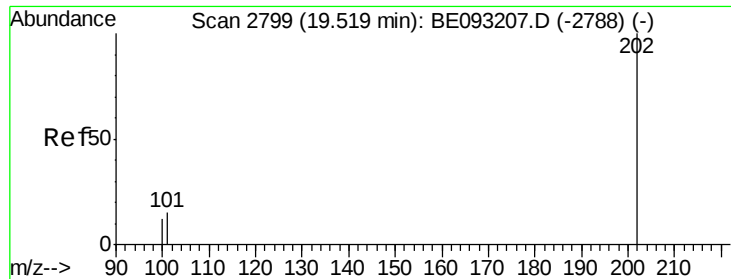
mohammad  
 6/19/2017 11:06:50 AM



#15  
 Fluoranthene  
 Concen: 0.710 ng/ul  
 RT: 19.16 min Scan# 2720  
 Delta R.T. -0.00 min  
 Lab File: BE093219.D  
 Acq: 15 Jun 2017 21:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.8  | 0.0   | 30.3  |
| 100     | 8.6   | 0.0   | 39.5  |





#17

Pyrene

Concen: 1.121 ng/ul

RT: 19.52 min Scan# 2799

Delta R.T. -0.00 min

Lab File: BE093219.D

Acq: 15 Jun 2017 21:46

Instrument :

BNA\_E

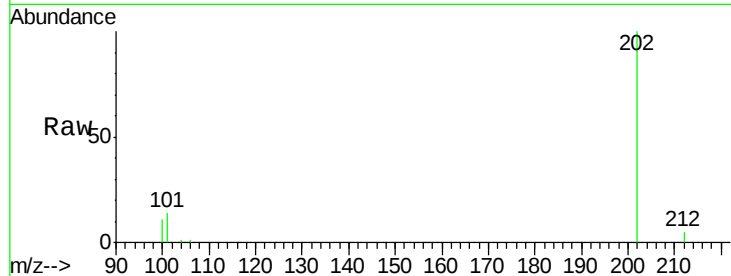
ClientSampleId :

F5C60DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 70388 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 14.3  | 18.2  | 27.4# |
| 100       | 11.1  | 15.6  | 23.4# |

Manual Integrations  
APPROVED

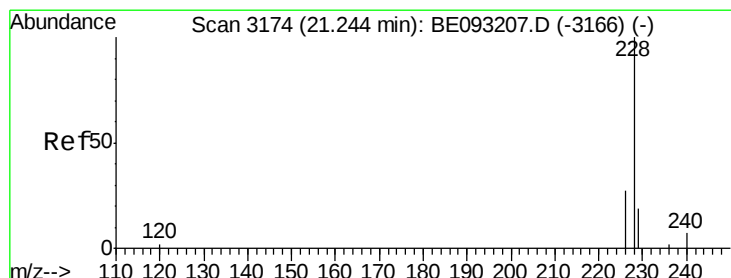
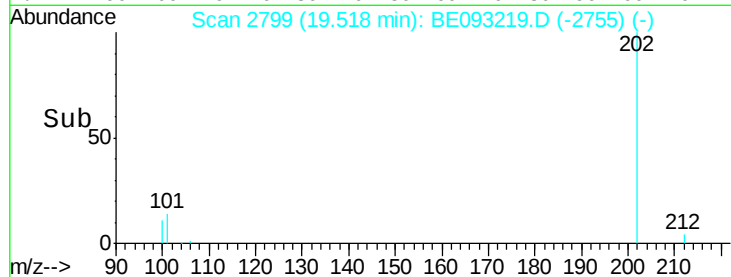
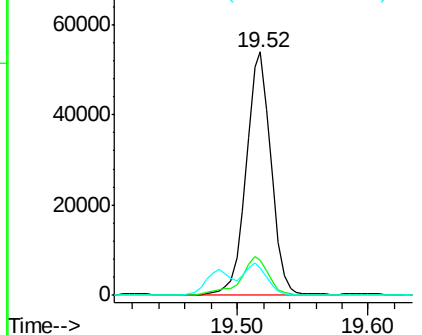
mohammad  
6/19/2017 11:06:50 AM



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 100.00 (99.70 to 100.70): E



#18

Benzo(a)anthracene

Concen: 0.582 ng/ul

RT: 21.25 min Scan# 3175

Delta R.T. 0.00 min

Lab File: BE093219.D

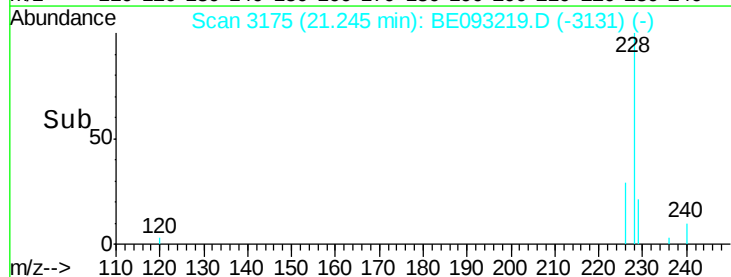
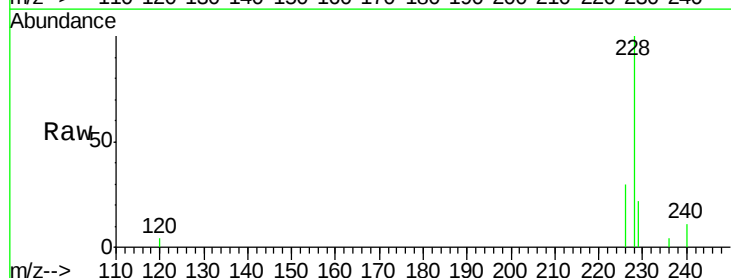
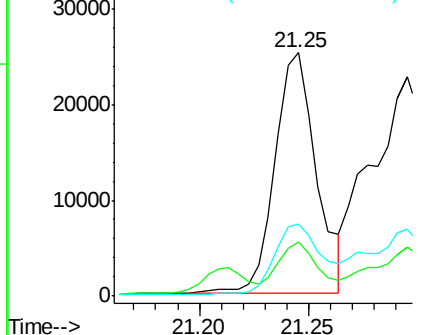
Acq: 15 Jun 2017 21:46

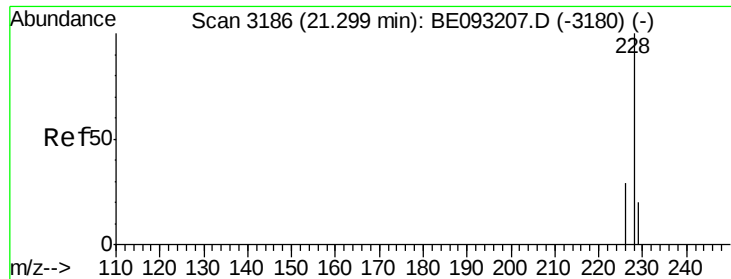
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 33039 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 22.0  | 22.8  | 34.2# |
| 226       | 29.6  | 17.0  | 25.6# |

Abundance Ion 228.00 (227.70 to 228.70): E

Ion 229.00 (228.70 to 229.70): E

Ion 226.00 (225.70 to 226.70): E





#19

Chrysene

Concen: 0.694 ng/ul

RT: 21.30 min Scan# 3186

Delta R.T. -0.00 min

Lab File: BE093219.D

Acq: 15 Jun 2017 21:46

Instrument :

BNA\_E

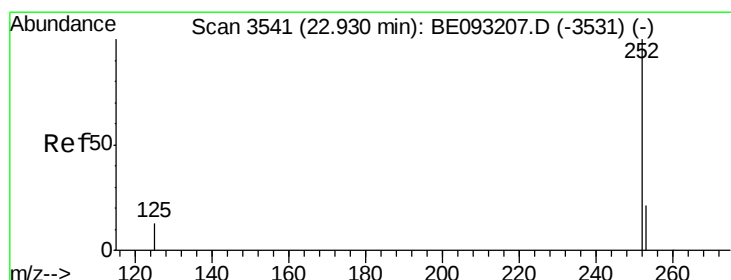
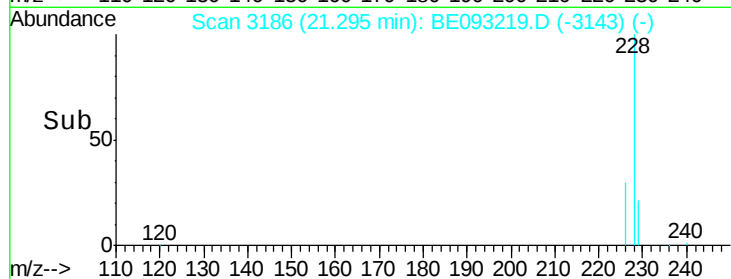
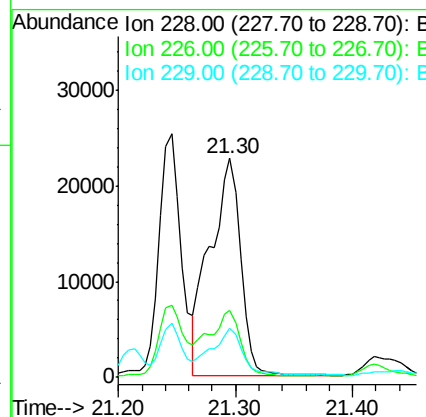
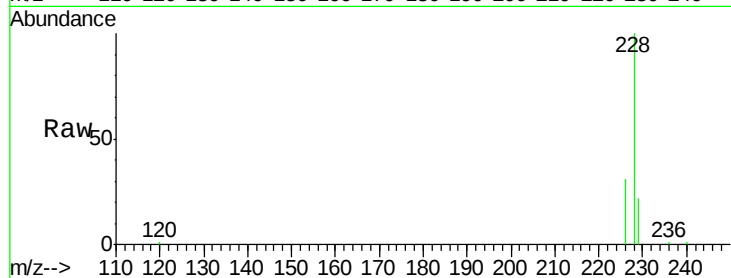
ClientSampleId :

F5C60DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 40893 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 30.7  | 23.4  | 35.0  |
| 229      | 22.4  | 17.7  | 26.5  |

Manual Integrations  
APPROVED

mohammad  
6/19/2017 11:06:50 AM



#21

Benzo(b)fluoranthene

Concen: 1.399 ng/ul m

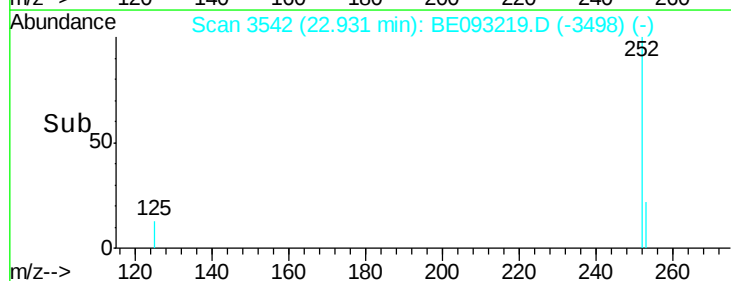
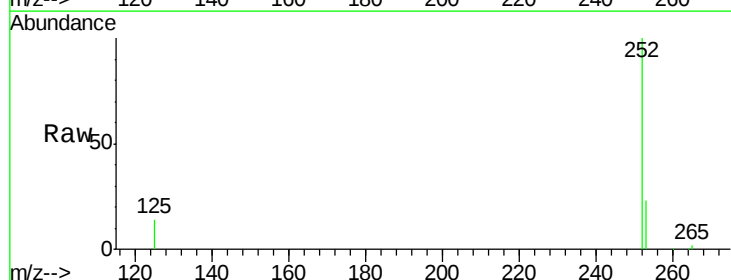
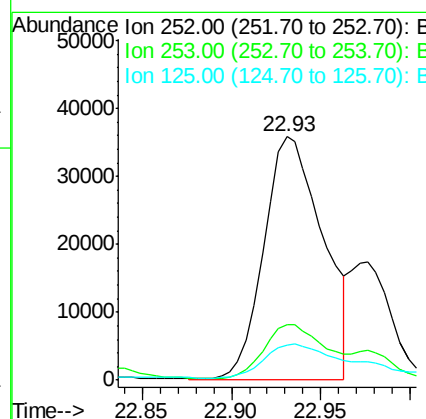
RT: 22.93 min Scan# 3542

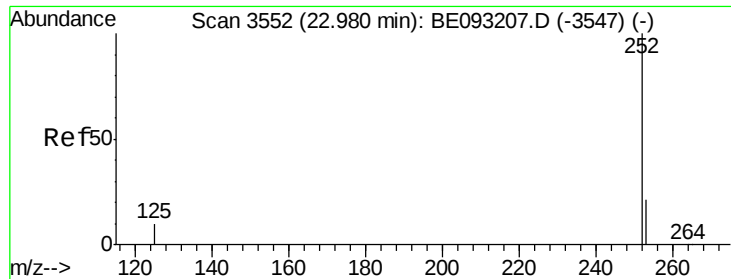
Delta R.T. 0.00 min

Lab File: BE093219.D

Acq: 15 Jun 2017 21:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 83314 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 22.9  | 0.0   | 64.2  |
| 125      | 14.3  | 0.0   | 35.0  |





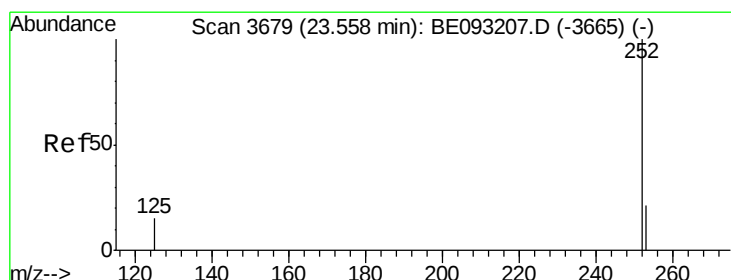
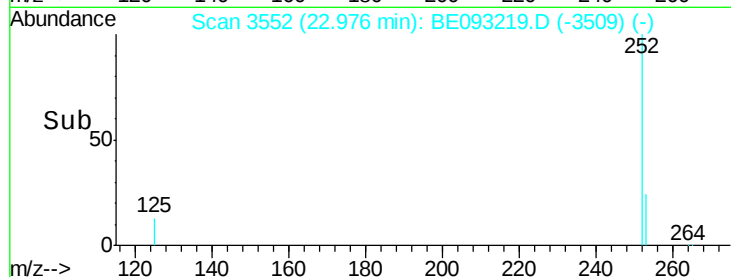
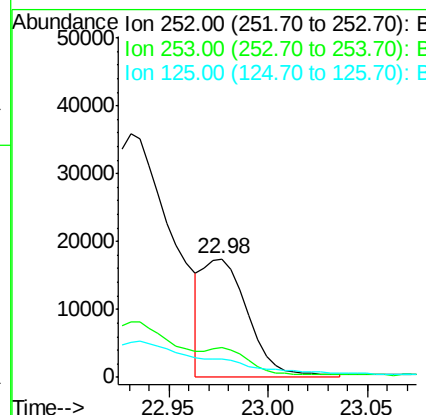
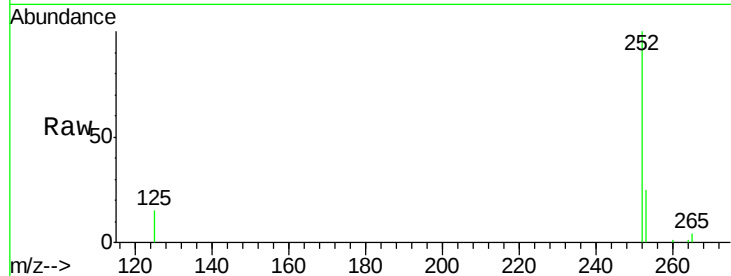
#22  
Benzo(k)fluoranthene  
Concen: 0.445 ng/ul m  
RT: 22.98 min Scan# 3552  
Delta R.T. -0.00 min  
Lab File: BE093219.D  
Acq: 15 Jun 2017 21:46

Instrument :  
BNA\_E  
ClientSampleId :  
F5C60DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.0  | 24.5  | 36.7  |
| 125     | 15.2  | 13.7  | 20.5  |

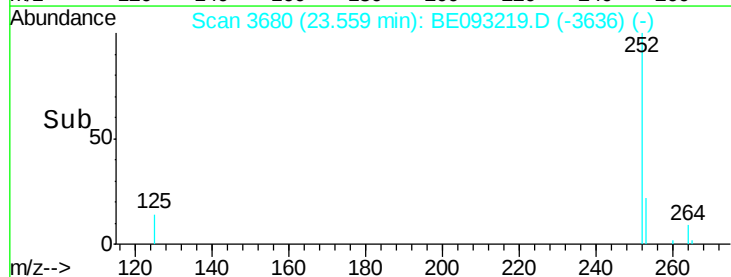
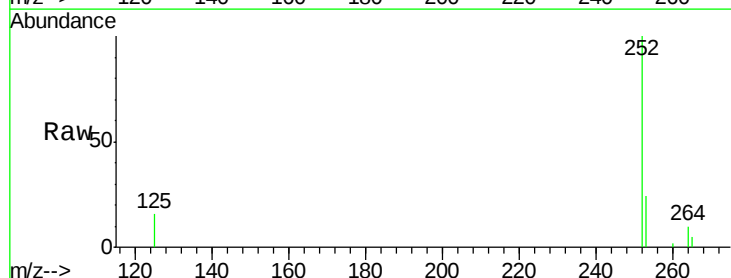
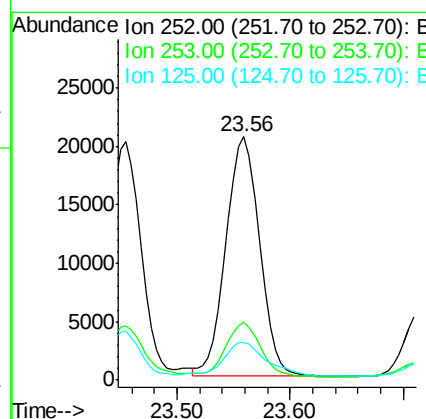
Manual Integrations  
APPROVED

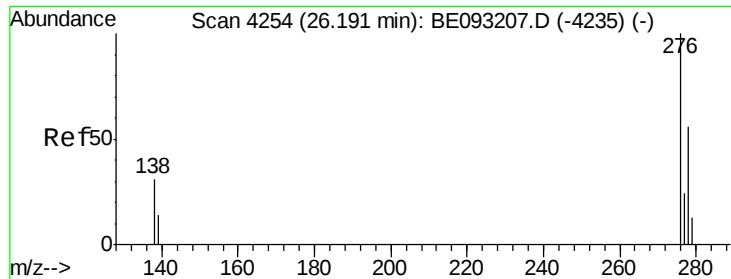
mohammad  
6/19/2017 11:06:50 AM



#23  
Benzo(a)pyrene  
Concen: 0.744 ng/ul  
RT: 23.56 min Scan# 3680  
Delta R.T. 0.00 min  
Lab File: BE093219.D  
Acq: 15 Jun 2017 21:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.7  | 28.5  | 42.7# |
| 125     | 15.6  | 18.1  | 27.1# |





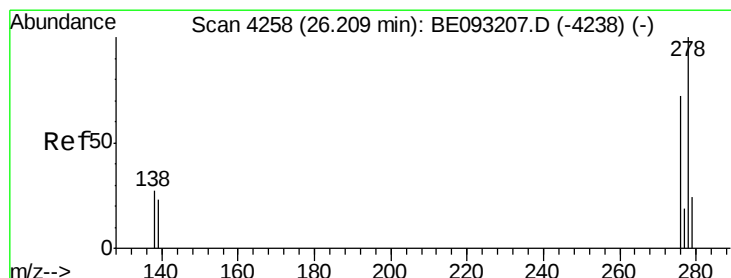
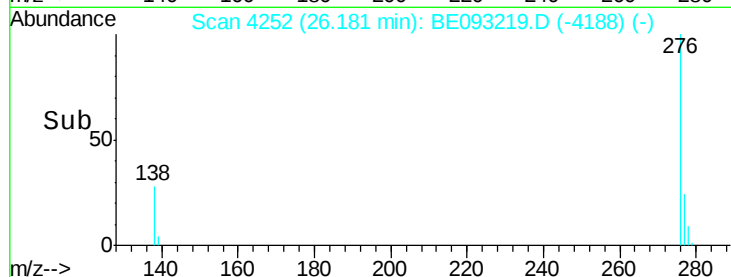
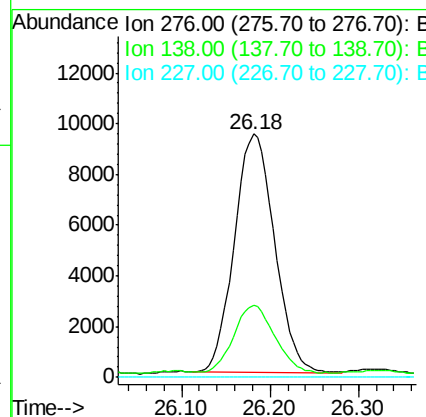
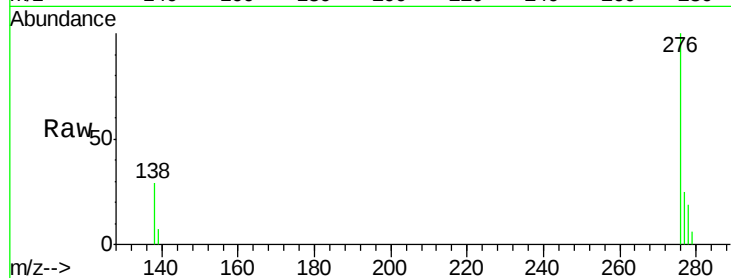
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.456 ng/ul  
 RT: 26.18 min Scan# 4252  
 Delta R.T. -0.01 min  
 Lab File: BE093219.D  
 Acq: 15 Jun 2017 21:46

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5C60DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 29.3  | 28.0  | 42.0  |
| 227     | 0.0   | 8.0   | 12.0  |

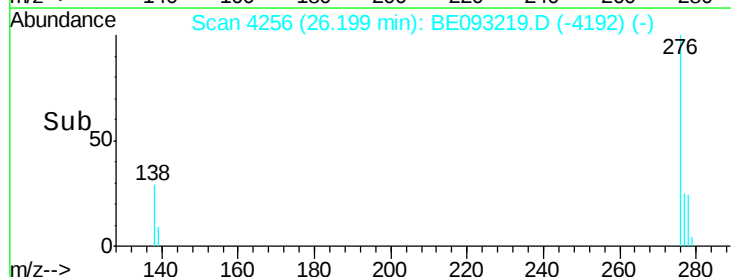
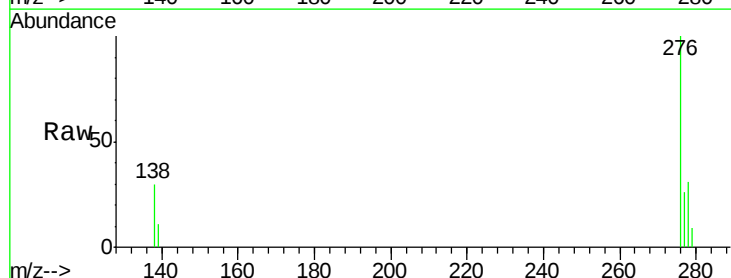
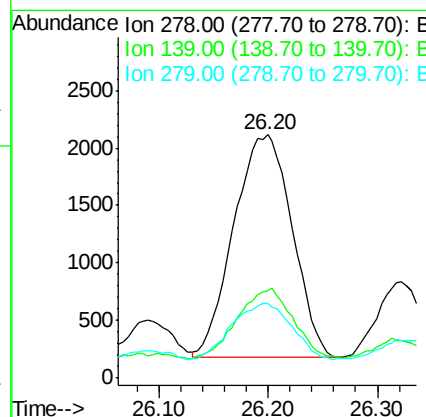
Manual Integrations  
 APPROVED

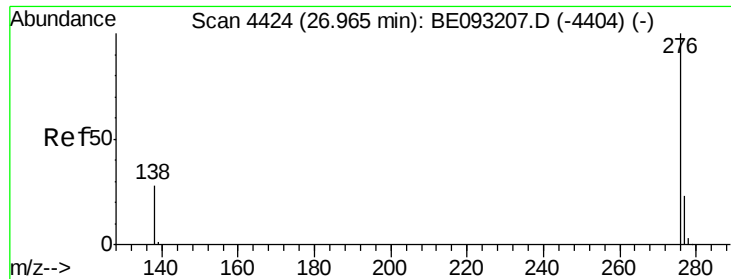
mohammad  
 6/19/2017 11:06:50 AM



#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.131 ng/ul  
 RT: 26.20 min Scan# 4256  
 Delta R.T. -0.01 min  
 Lab File: BE093219.D  
 Acq: 15 Jun 2017 21:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 35.9  | 17.4  | 26.0  |
| 279     | 30.5  | 25.9  | 38.9  |





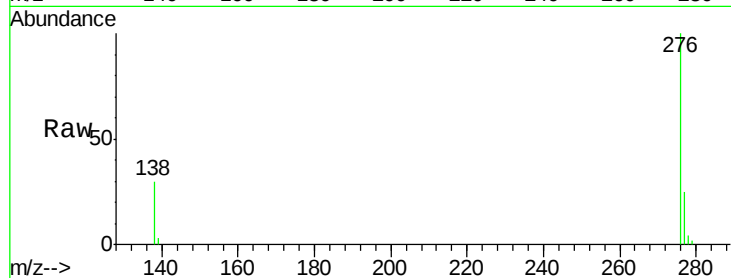
#26  
 Benzo(g,h,i)perylene  
 Concen: 0.440 ng/ul  
 RT: 26.96 min Scan# 4422  
 Delta R.T. -0.01 min  
 Lab File: BE093219.D  
 Acq: 15 Jun 2017 21:46

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5C60DL

| Tgt | Ion  | Ratio | Resp: | Lower | Upper |
|-----|------|-------|-------|-------|-------|
| 276 | 100  |       | 24617 |       |       |
| 138 | 30.1 | 21.8  | 32.8  |       |       |
| 277 | 25.3 | 20.5  | 30.7  |       |       |

Manual Integrations  
 APPROVED

mohammad  
 6/19/2017 11:06:50 AM



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

