

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_E\DATA\BE062417\  
 Data File : BE093363.D  
 Acq On : 24 Jun 2017 15:54  
 Operator : SJ/JU  
 Sample : I3625-09DL 5X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5D03DL

Manual Integrations  
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mohammad  
 6/29/2017 8:34:20 AM

Quant Time: Jun 26 01:50:01 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jun 26 01:13:30 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.73  | 152  | 1365     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.51 | 136  | 7226     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.36 | 164  | 4315     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.10 | 188  | 10853    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.26 | 240  | 11682    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.66 | 264  | 11474    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152  | 734      | 0.07   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.12 | 212  | 2806     | 0.10   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.56 | 128  | 1422     | 0.079  | ng/ul# | 93       |
| 5) 2-Methylnaphthalene      | 12.18 | 142  | 379      | 0.031  | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.08 | 152  | 3384     | 0.183  | ng/ul  | 99       |
| 8) Acenaphthene             | 14.42 | 153  | 996      | 0.067  | ng/ul  | 98       |
| 9) Fluorene                 | 15.41 | 166  | 1343     | 0.077  | ng/ul  | 91       |
| 12) Phenanthrene            | 17.13 | 178  | 31091    | 1.041  | ng/ul# | 91       |
| 13) Anthracene              | 17.22 | 178  | 8679     | 0.334  | ng/ul# | 91       |
| 15) Fluoranthene            | 19.15 | 202  | 80505    | 2.198  | ng/ul  | 84       |
| 17) Pyrene                  | 19.51 | 202  | 80961    | 2.350  | ng/ul# | 83       |
| 18) Benzo(a)anthracene      | 21.24 | 228  | 49167    | 1.578  | ng/ul# | 85       |
| 19) Chrysene                | 21.29 | 228  | 52064    | 1.611  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.93 | 252  | 71729m   | 2.060  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.97 | 252  | 26854m   | 0.726  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.55 | 252  | 42429    | 1.289  | ng/ul# | 82       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.18 | 276  | 26570    | 0.697  | ng/ul# | 87       |
| 25) Dibenzo(a,h)anthracene  | 26.19 | 278  | 7864     | 0.245  | ng/ul# | 89       |
| 26) Benzo(g,h,i)perylene    | 26.96 | 276  | 20864    | 0.638  | ng/ul  | 95       |

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

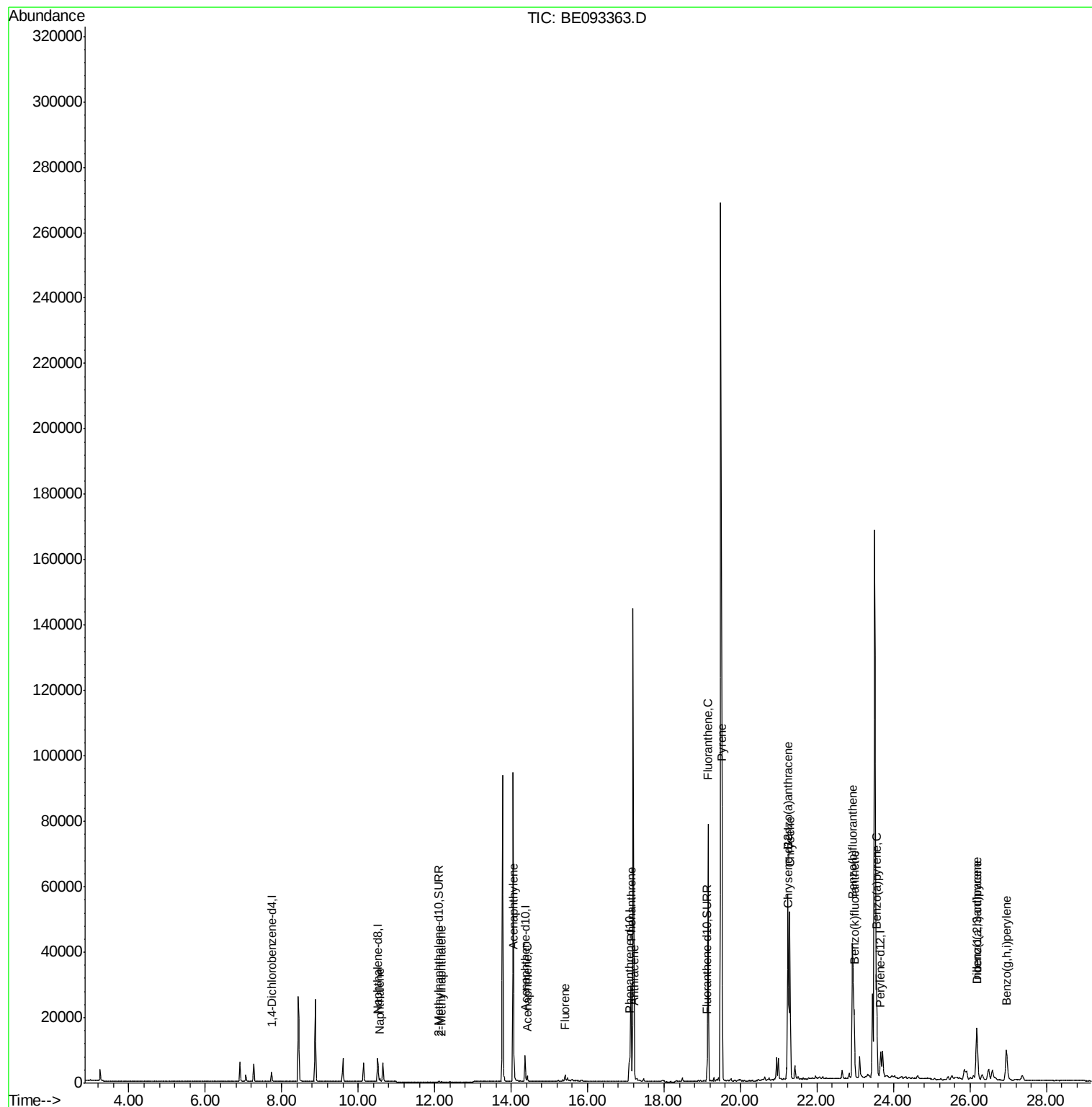
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_E\DATA\BE062417\  
Data File : BE093363.D  
Acq On : 24 Jun 2017 15:54  
Operator : SJ/JU  
Sample : I3625-09DL 5X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

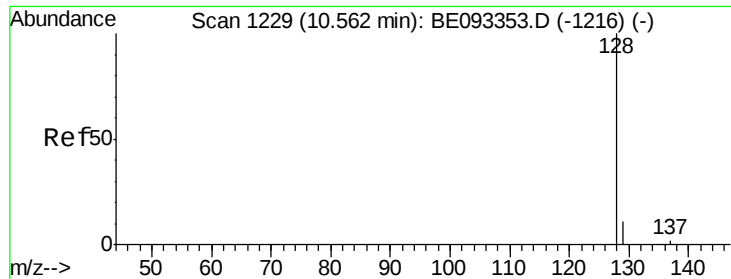
Instrument :  
BNA\_E  
ClientSampleId :  
F5D03DL

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Quant Time: Jun 26 01:50:01 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 26 01:13:30 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.079 ng/ul

RT: 10.56 min Scan# 1229

Delta R.T. 0.00 min

Lab File: BE093363.D

Acq: 24 Jun 2017 15:54

Instrument :

BNA\_E

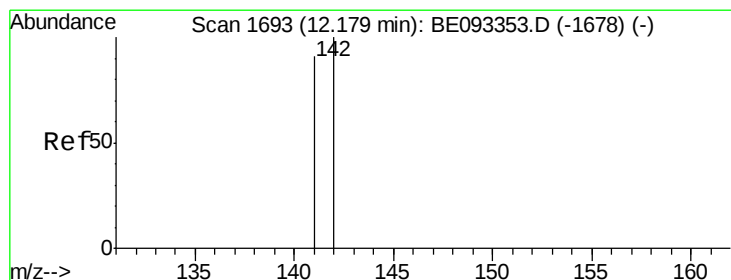
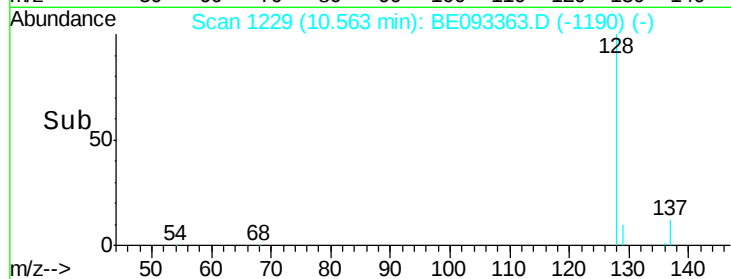
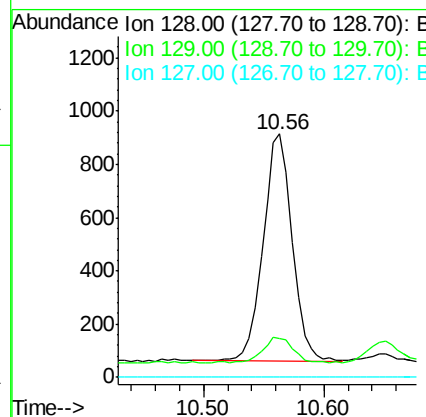
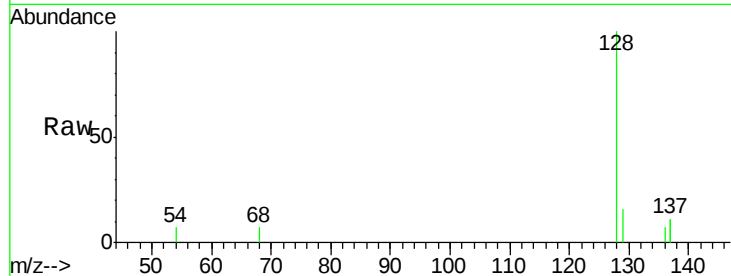
ClientSampleId :

F5D03DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 1422 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 129       | 15.9  | 11.3  | 16.9 |
| 127       | 0.0   | 4.0   | 6.0# |

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#5

2-Methylnaphthalene

Concen: 0.031 ng/ul

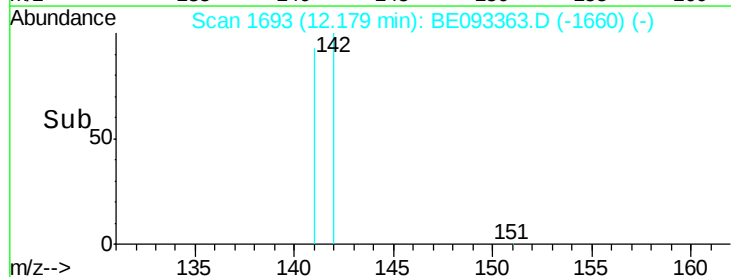
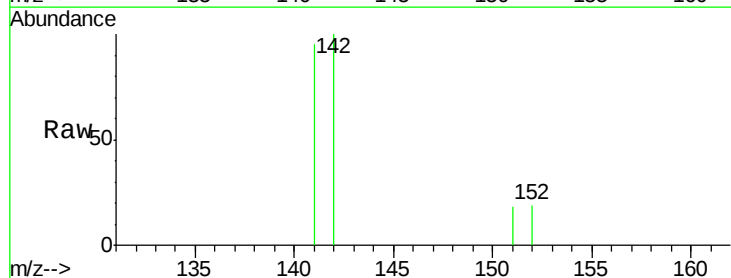
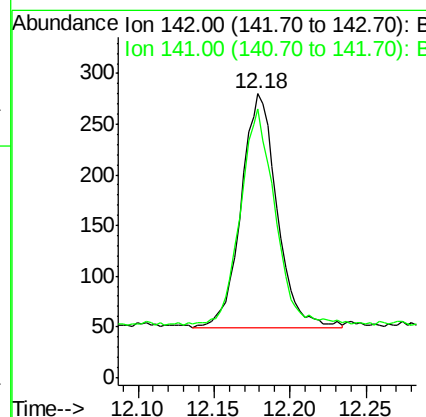
RT: 12.18 min Scan# 1693

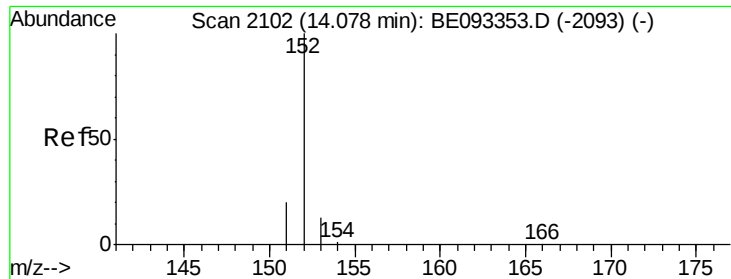
Delta R.T. 0.00 min

Lab File: BE093363.D

Acq: 24 Jun 2017 15:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 379   |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 89.2  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 0.183 ng/ul

RT: 14.08 min Scan# 2101

Delta R.T. -0.00 min

Lab File: BE093363.D

Acq: 24 Jun 2017 15:54

Instrument :

BNA\_E

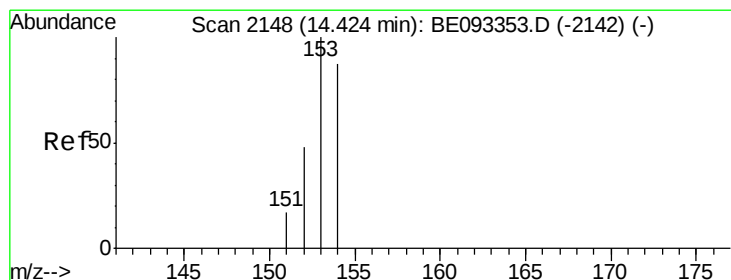
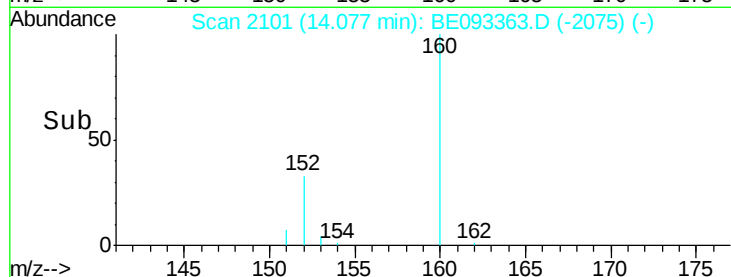
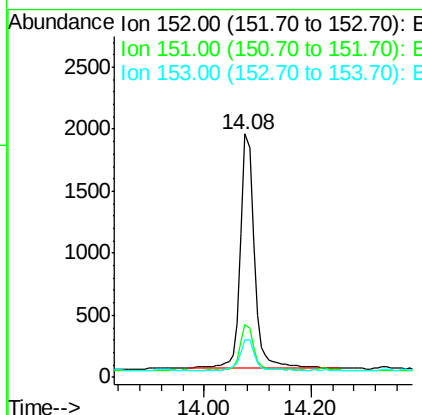
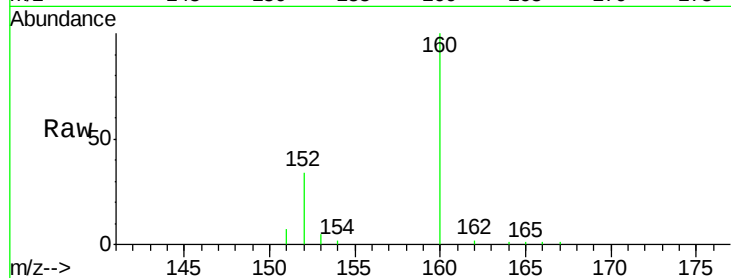
ClientSampleId :

F5D03DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 3384 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 21.7  | 17.1  | 25.7 |
| 153       | 15.3  | 12.8  | 19.2 |

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#8

Acenaphthene

Concen: 0.067 ng/ul

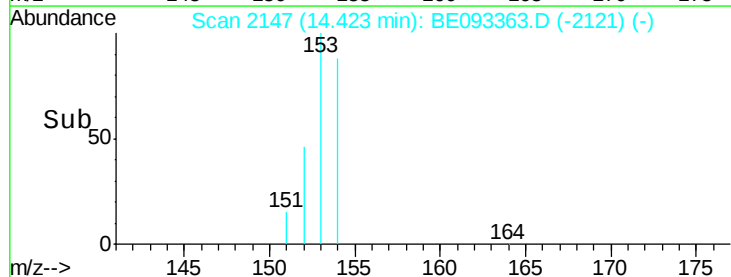
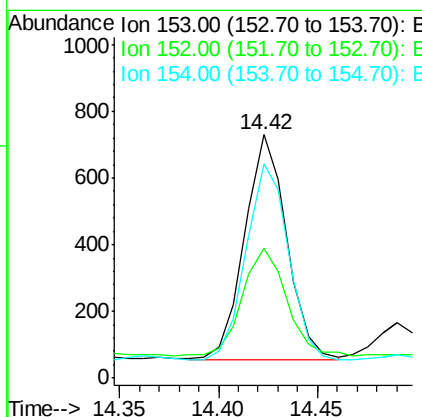
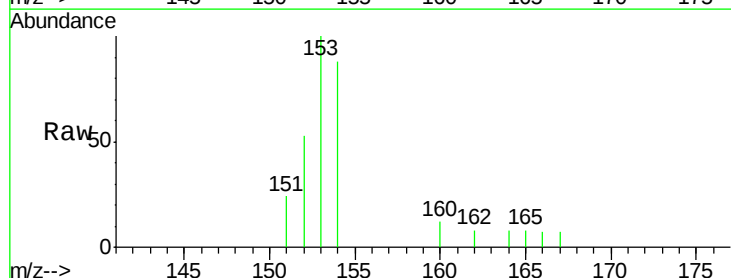
RT: 14.42 min Scan# 2147

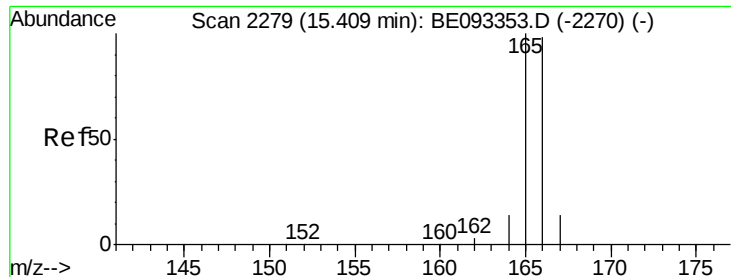
Delta R.T. -0.00 min

Lab File: BE093363.D

Acq: 24 Jun 2017 15:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 996   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 53.0  | 40.3  | 60.5  |
| 154       | 88.2  | 71.4  | 107.2 |





#9

Fluorene

Concen: 0.077 ng/ul

RT: 15.41 min Scan# 2278

Delta R.T. -0.00 min

Lab File: BE093363.D

Acq: 24 Jun 2017 15:54

Instrument :

BNA\_E

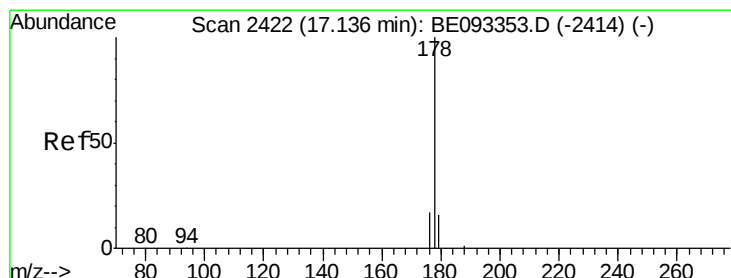
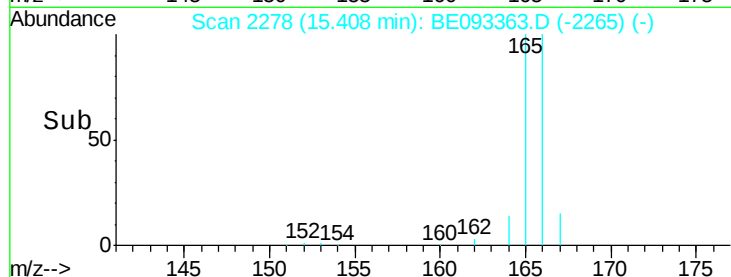
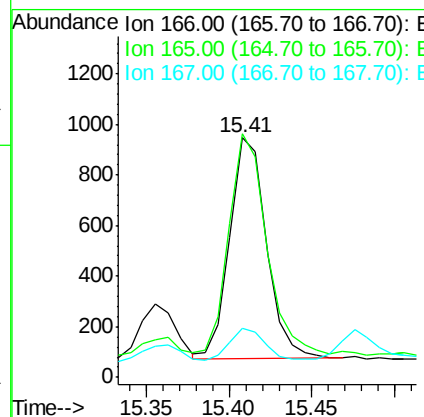
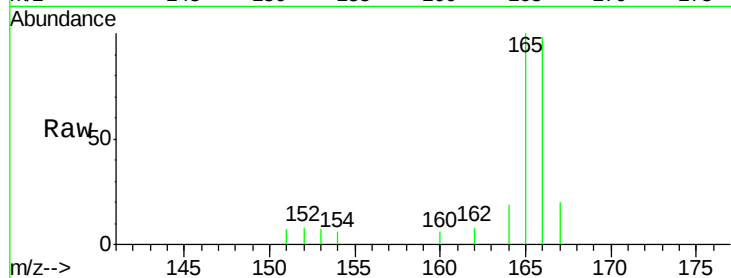
ClientSampleId :

F5D03DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 1343  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 101.6 | 73.4  | 110.2 |
| 167       | 20.3  | 14.6  | 22.0  |

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#12

Phenanthrene

Concen: 1.041 ng/ul

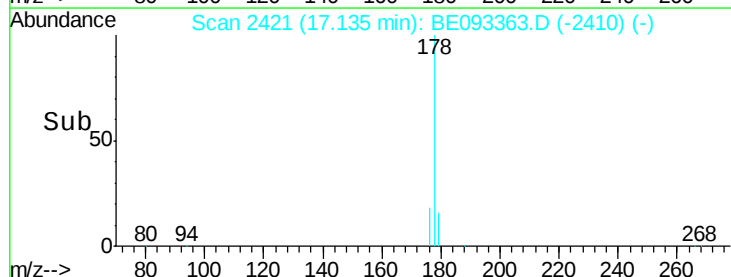
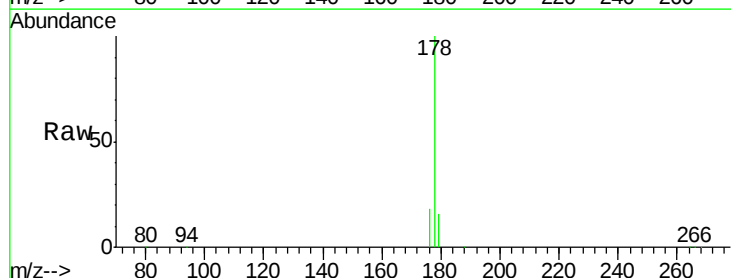
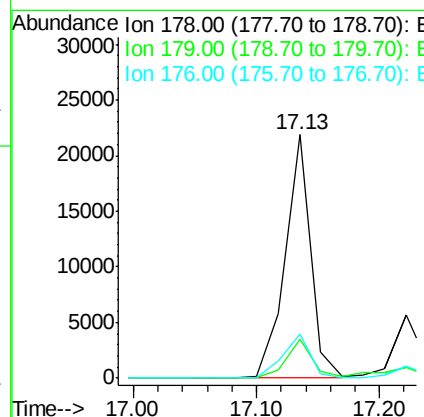
RT: 17.13 min Scan# 2421

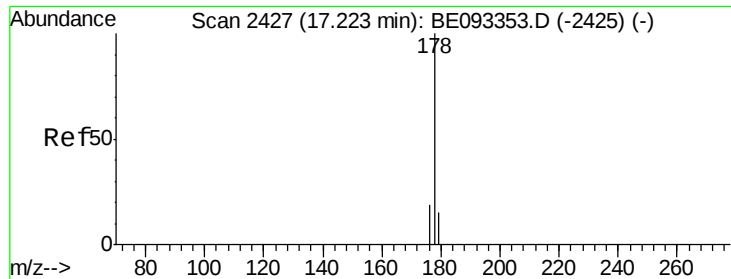
Delta R.T. -0.00 min

Lab File: BE093363.D

Acq: 24 Jun 2017 15:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 31091 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.0  | 18.4  | 27.6# |
| 176       | 18.1  | 13.6  | 20.4  |





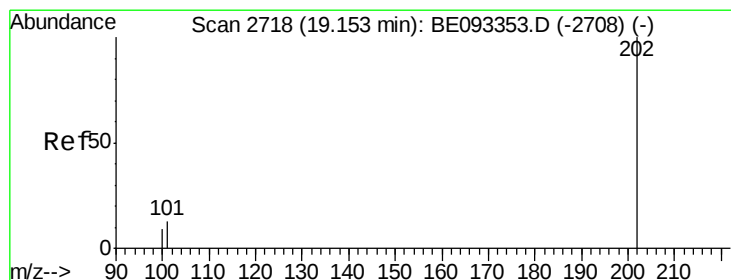
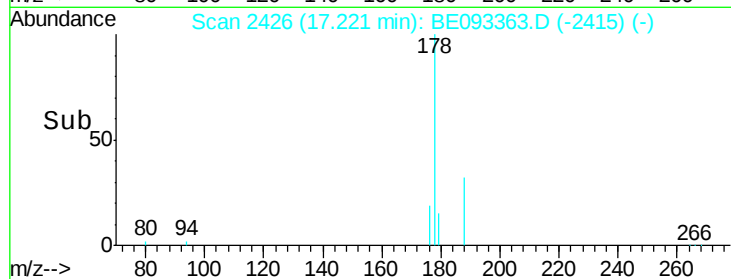
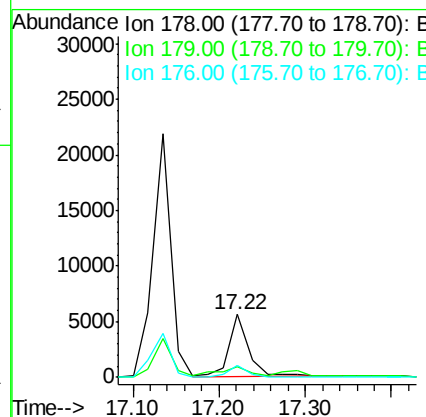
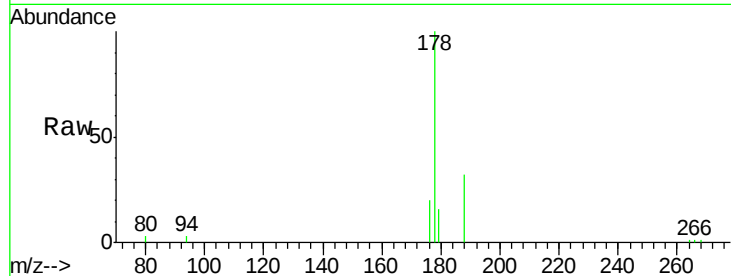
#13  
 Anthracene  
 Concen: 0.334 ng/ul  
 RT: 17.22 min Scan# 2426  
 Delta R.T. -0.00 min  
 Lab File: BE093363.D  
 Acq: 24 Jun 2017 15:54

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5D03DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.1  | 18.1  | 27.1# |
| 176     | 19.7  | 14.7  | 22.1  |

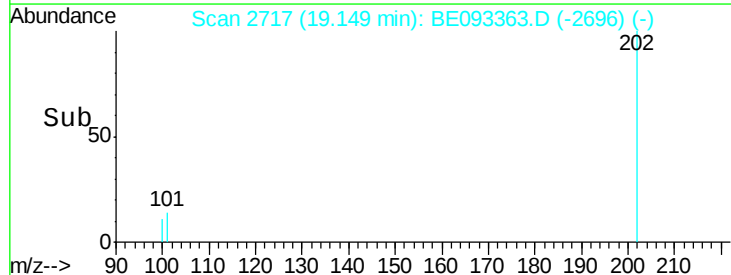
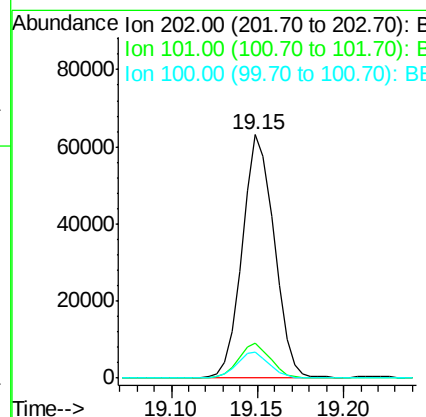
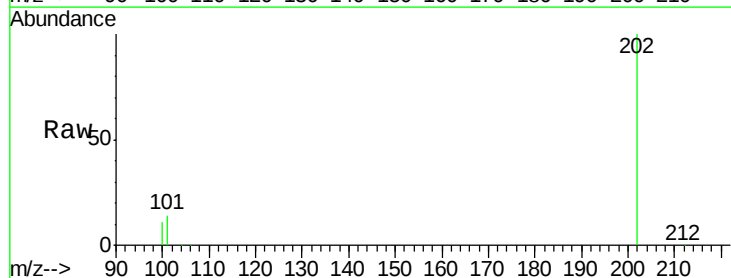
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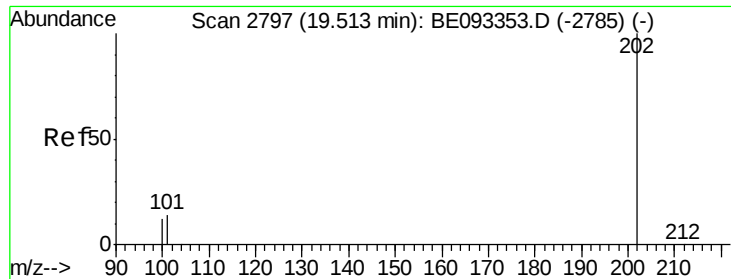
mohammad  
 6/29/2017 8:34:20 AM



#15  
 Fluoranthene  
 Concen: 2.198 ng/ul  
 RT: 19.15 min Scan# 2717  
 Delta R.T. -0.00 min  
 Lab File: BE093363.D  
 Acq: 24 Jun 2017 15:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.2  | 0.0   | 30.3  |
| 100     | 10.7  | 0.0   | 39.5  |





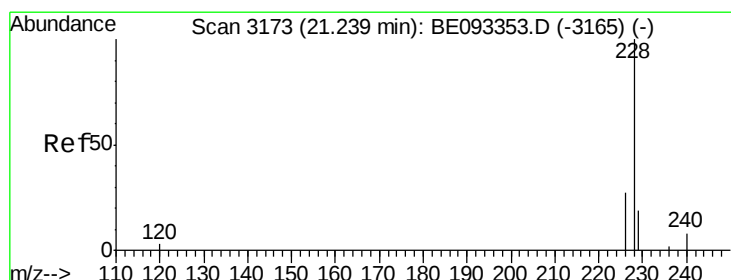
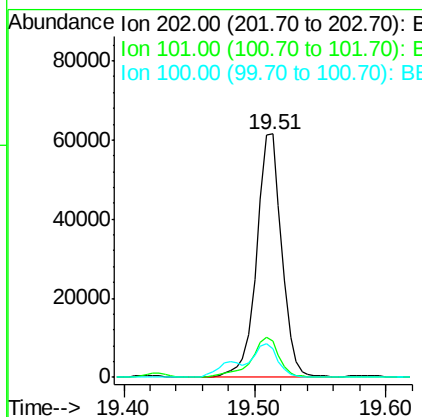
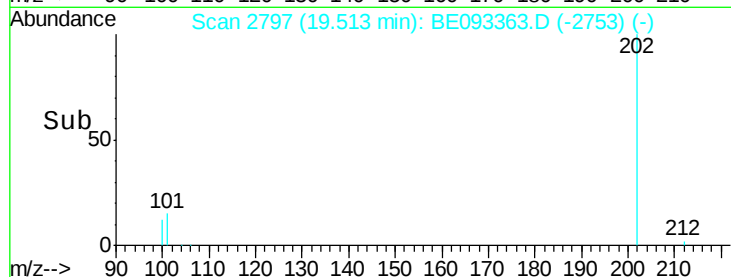
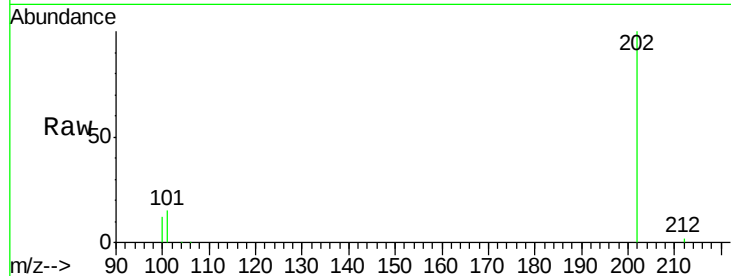
#17  
 Pyrene  
 Concen: 2.350 ng/ul  
 RT: 19.51 min Scan# 2797  
 Delta R.T. 0.00 min  
 Lab File: BE093363.D  
 Acq: 24 Jun 2017 15:54

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5D03DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 14.8  | 18.2       | 27.4#      |
| 100     | 11.6  | 15.6       | 23.4#      |

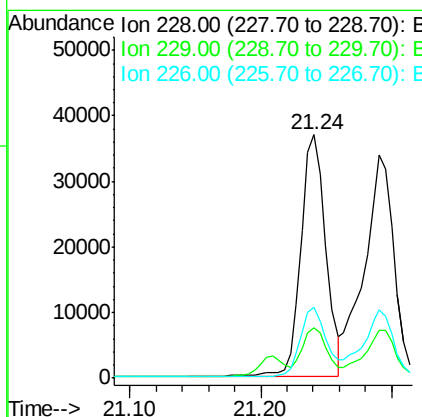
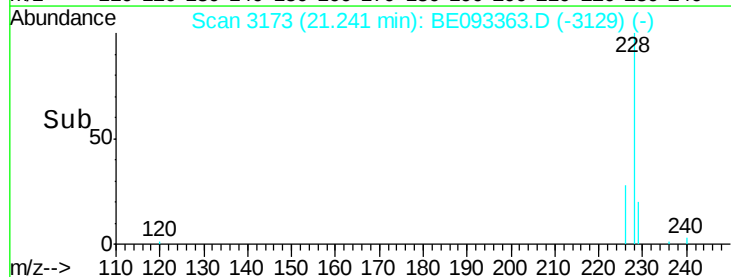
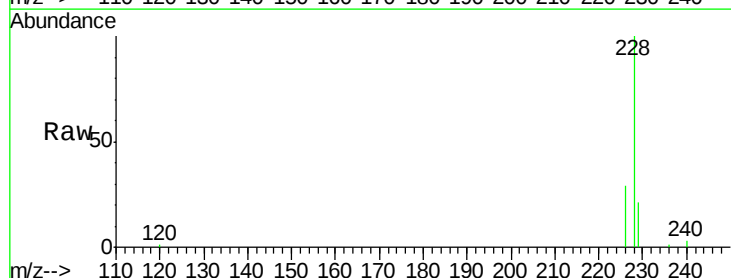
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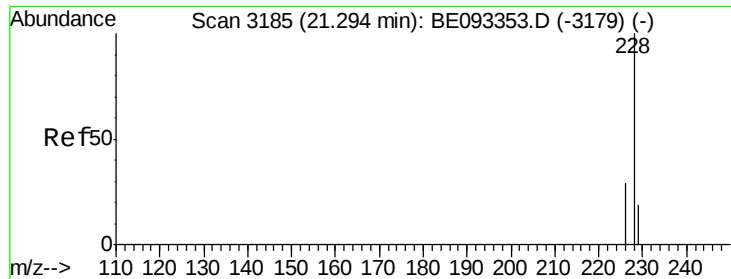
mohammad  
 6/29/2017 8:34:20 AM



#18  
 Benzo(a)anthracene  
 Concen: 1.578 ng/ul  
 RT: 21.24 min Scan# 3173  
 Delta R.T. 0.00 min  
 Lab File: BE093363.D  
 Acq: 24 Jun 2017 15:54

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 20.8  | 22.8       | 34.2#      |
| 226     | 29.0  | 17.0       | 25.6#      |





#19

Chrysene

Concen: 1.611 ng/ul

RT: 21.29 min Scan# 3184

Delta R.T. -0.00 min

Lab File: BE093363.D

Acq: 24 Jun 2017 15:54

Instrument :

BNA\_E

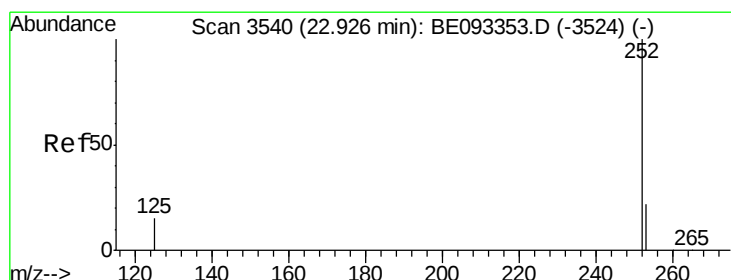
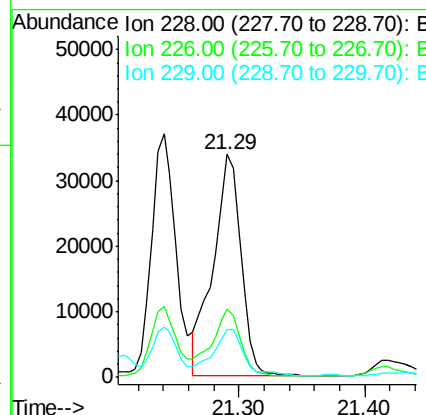
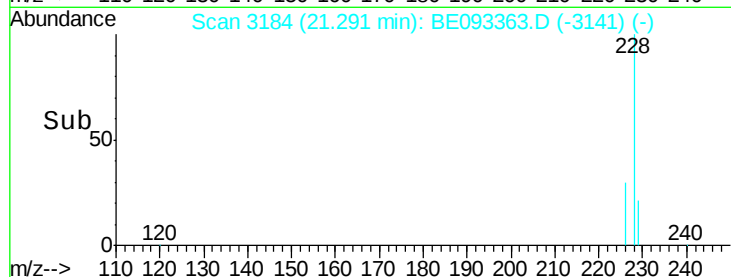
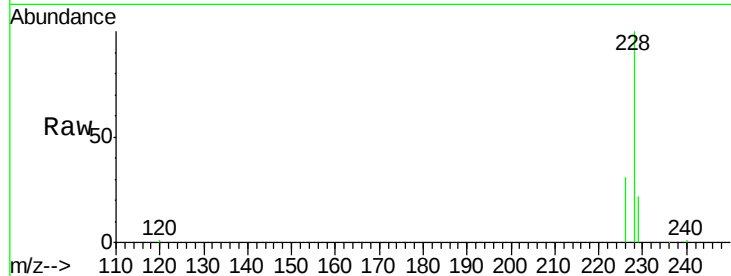
ClientSampleId :

F5D03DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 52064 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.9  | 23.4  | 35.0  |
| 229       | 21.6  | 17.7  | 26.5  |

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#21

Benzo(b)fluoranthene

Concen: 2.060 ng/ul m

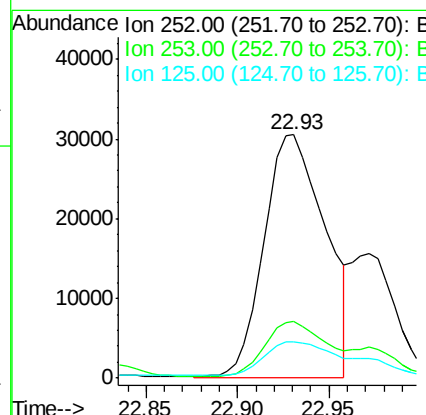
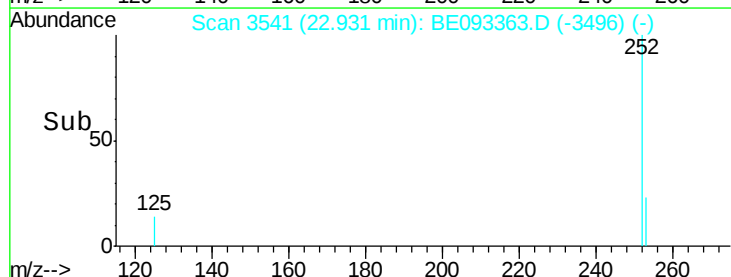
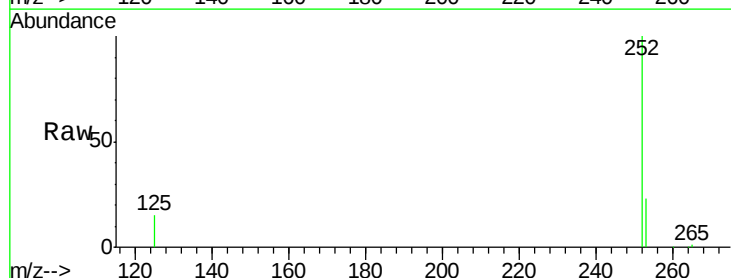
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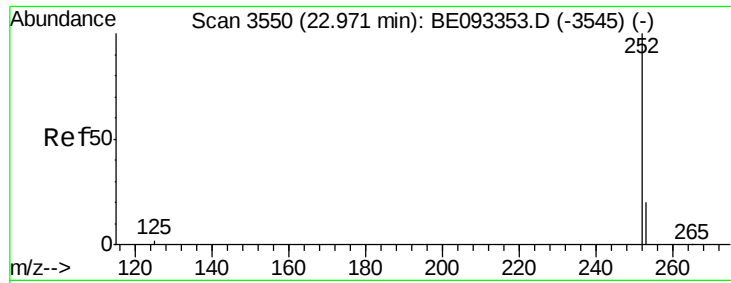
Delta R.T. 0.01 min

Lab File: BE093363.D

Acq: 24 Jun 2017 15:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 71729 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.2  | 0.0   | 64.2  |
| 125       | 15.1  | 0.0   | 35.0  |





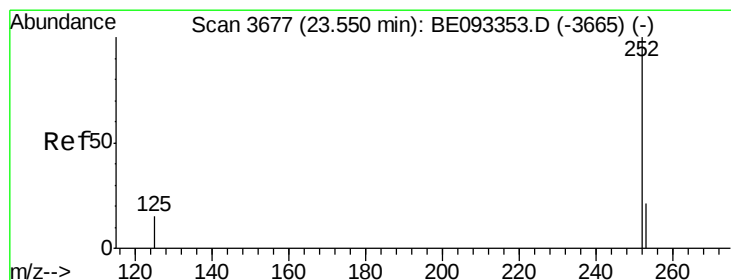
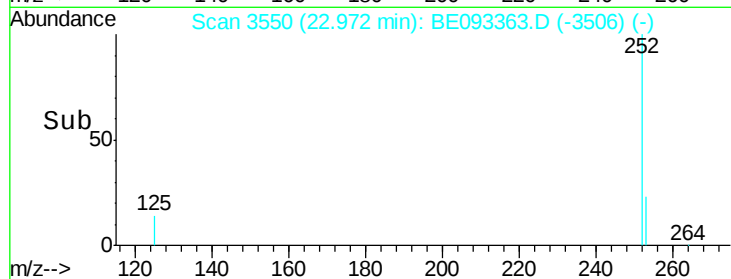
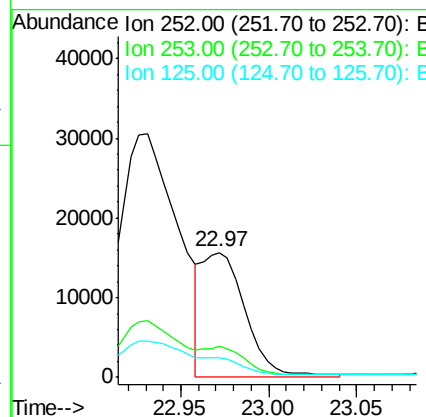
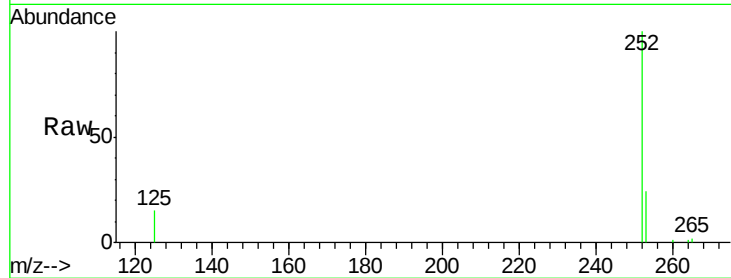
#22  
Benzo(k)fluoranthene  
Concen: 0.726 ng/ul m  
RT: 22.97 min Scan# 3550  
Delta R.T. 0.00 min  
Lab File: BE093363.D  
Acq: 24 Jun 2017 15:54

Instrument :  
BNA\_E  
ClientSampleId :  
F5D03DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.5  | 24.5  | 36.7# |
| 125     | 15.5  | 13.7  | 20.5  |

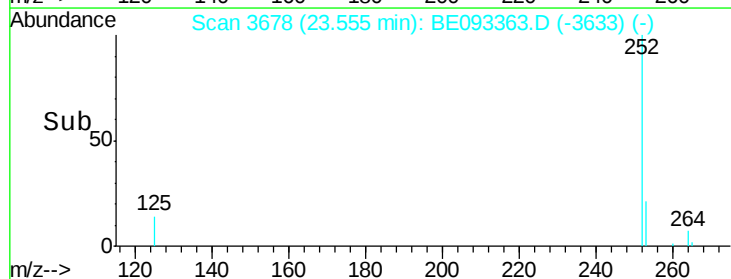
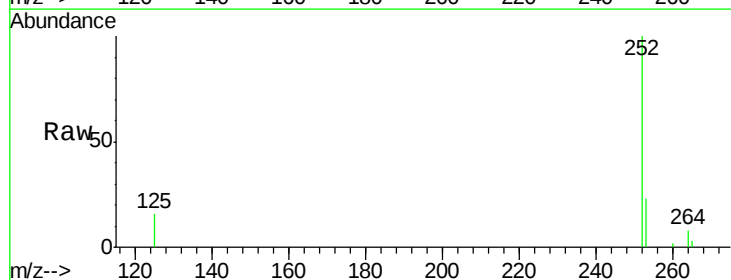
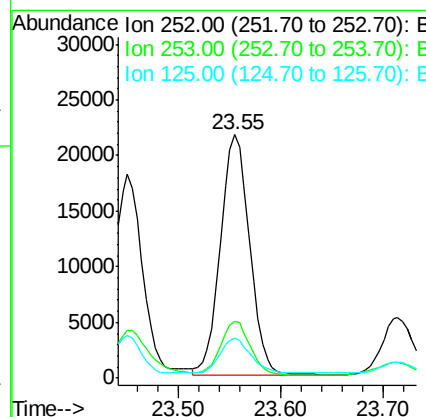
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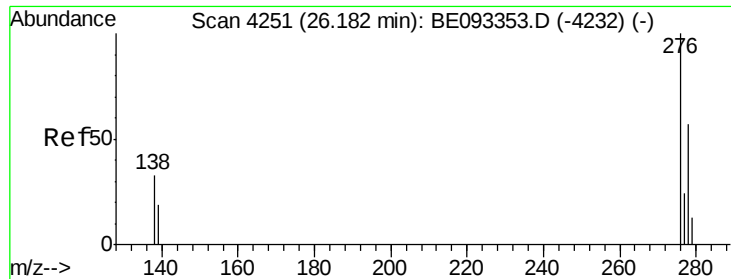
mohammad  
6/29/2017 8:34:20 AM



#23  
Benzo(a)pyrene  
Concen: 1.289 ng/ul  
RT: 23.55 min Scan# 3678  
Delta R.T. 0.01 min  
Lab File: BE093363.D  
Acq: 24 Jun 2017 15:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 28.5  | 42.7# |
| 125     | 16.3  | 18.1  | 27.1# |





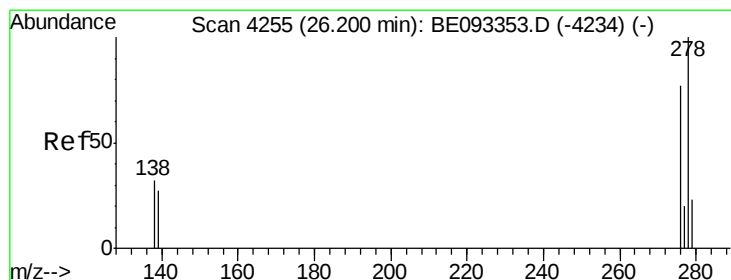
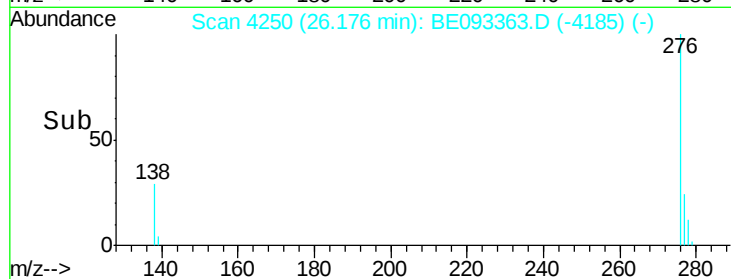
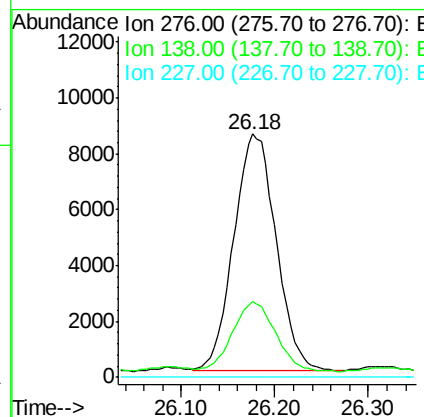
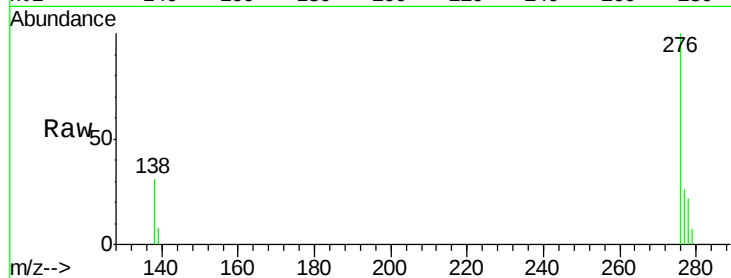
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.697 ng/ul  
 RT: 26.18 min Scan# 4250  
 Delta R.T. -0.01 min  
 Lab File: BE093363.D  
 Acq: 24 Jun 2017 15:54

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5D03DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 30.0  | 28.0       | 42.0       |
| 227     | 0.0   | 8.0        | 12.0       |

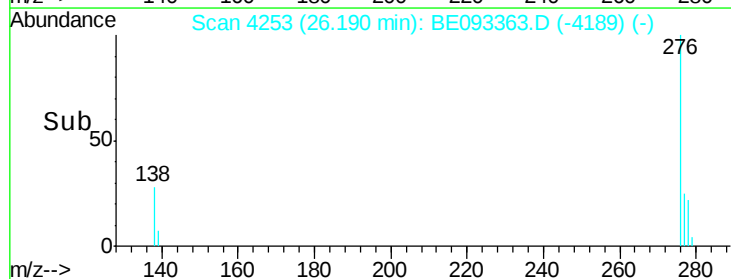
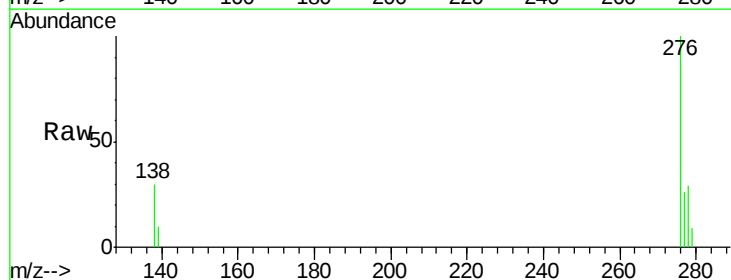
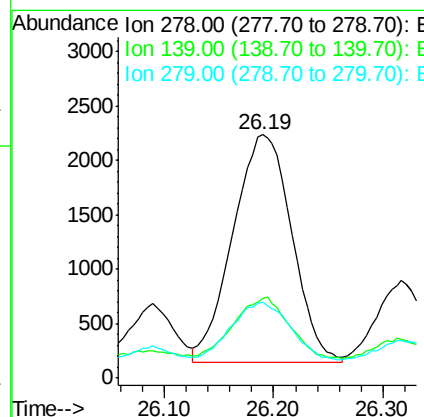
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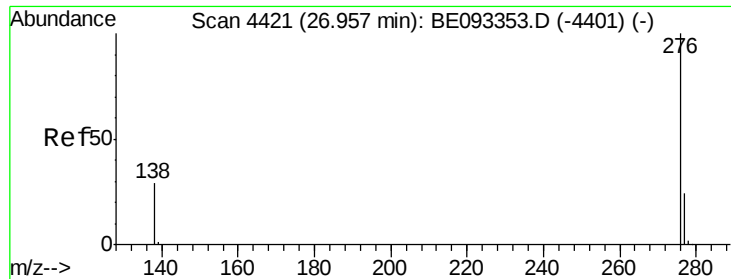
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.245 ng/ul  
 RT: 26.19 min Scan# 4253  
 Delta R.T. -0.01 min  
 Lab File: BE093363.D  
 Acq: 24 Jun 2017 15:54

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 278     | 100   |            |            |
| 139     | 32.8  | 17.4       | 26.0       |
| 279     | 31.1  | 25.9       | 38.9       |





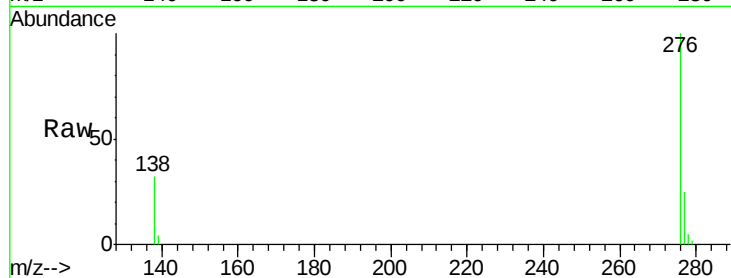
#26  
 Benzo(g,h,i)perylene  
 Concen: 0.638 ng/ul  
 RT: 26.96 min Scan# 4421  
 Delta R.T. -0.00 min  
 Lab File: BE093363.D  
 Acq: 24 Jun 2017 15:54

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5D03DL

|     |      |       |       |       |       |
|-----|------|-------|-------|-------|-------|
| Tgt | Ion  | Ratio | Resp  | Lower | Upper |
| 276 | 100  |       | 20864 |       |       |
| 138 | 31.8 | 21.8  | 32.8  |       |       |
| 277 | 25.1 | 20.5  | 30.7  |       |       |

Manual Integrations  
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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

