

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061917\  
 Data File : BE093248.D  
 Acq On : 19 Jun 2017 13:35  
 Operator : SJ/MA  
 Sample : I3599-12  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5B26

Manual Integrations  
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mohammad  
 6/20/2017 3:12:10 PM

Quant Time: Jun 20 07:41:53 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Jun 20 04:17:17 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.74  | 152  | 2472     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.52 | 136  | 12724    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.36 | 164  | 7972     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.10 | 188  | 19338m   | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.26 | 240  | 19070    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.67 | 264  | 15168m   | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152  | 4767     | 0.26   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.13 | 212  | 13532    | 0.26   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |        | Qvalue |          |
| 3) Naphthalene              | 10.57 | 128  | 1284762  | 40.695 | ng/ul# | 91       |
| 5) 2-Methylnaphthalene      | 12.18 | 142  | 80934    | 3.749  | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.09 | 152  | 2652     | 0.078  | ng/ul# | 88       |
| 8) Acenaphthene             | 14.43 | 153  | 63214    | 2.291  | ng/ul  | 97       |
| 9) Fluorene                 | 15.42 | 166  | 59848    | 1.850  | ng/ul# | 93       |
| 12) Phenanthrene            | 17.13 | 178  | 259501   | 4.877  | ng/ul# | 87       |
| 13) Anthracene              | 17.22 | 178  | 24836    | 0.536  | ng/ul# | 86       |
| 15) Fluoranthene            | 19.15 | 202  | 98309    | 1.507  | ng/ul  | 84       |
| 17) Pyrene                  | 19.52 | 202  | 66907    | 1.190  | ng/ul# | 84       |
| 18) Benzo(a)anthracene      | 21.24 | 228  | 8854     | 0.174  | ng/ul# | 86       |
| 19) Chrysene                | 21.29 | 228  | 7691     | 0.146  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.93 | 252  | 4219     | 0.092  | ng/ul  | 87       |
| 22) Benzo(k)fluoranthene    | 22.98 | 252  | 1693m    | 0.035  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.56 | 252  | 2394m    | 0.055  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 26.19 | 276  | 943m     | 0.019  | ng/ul  |          |

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

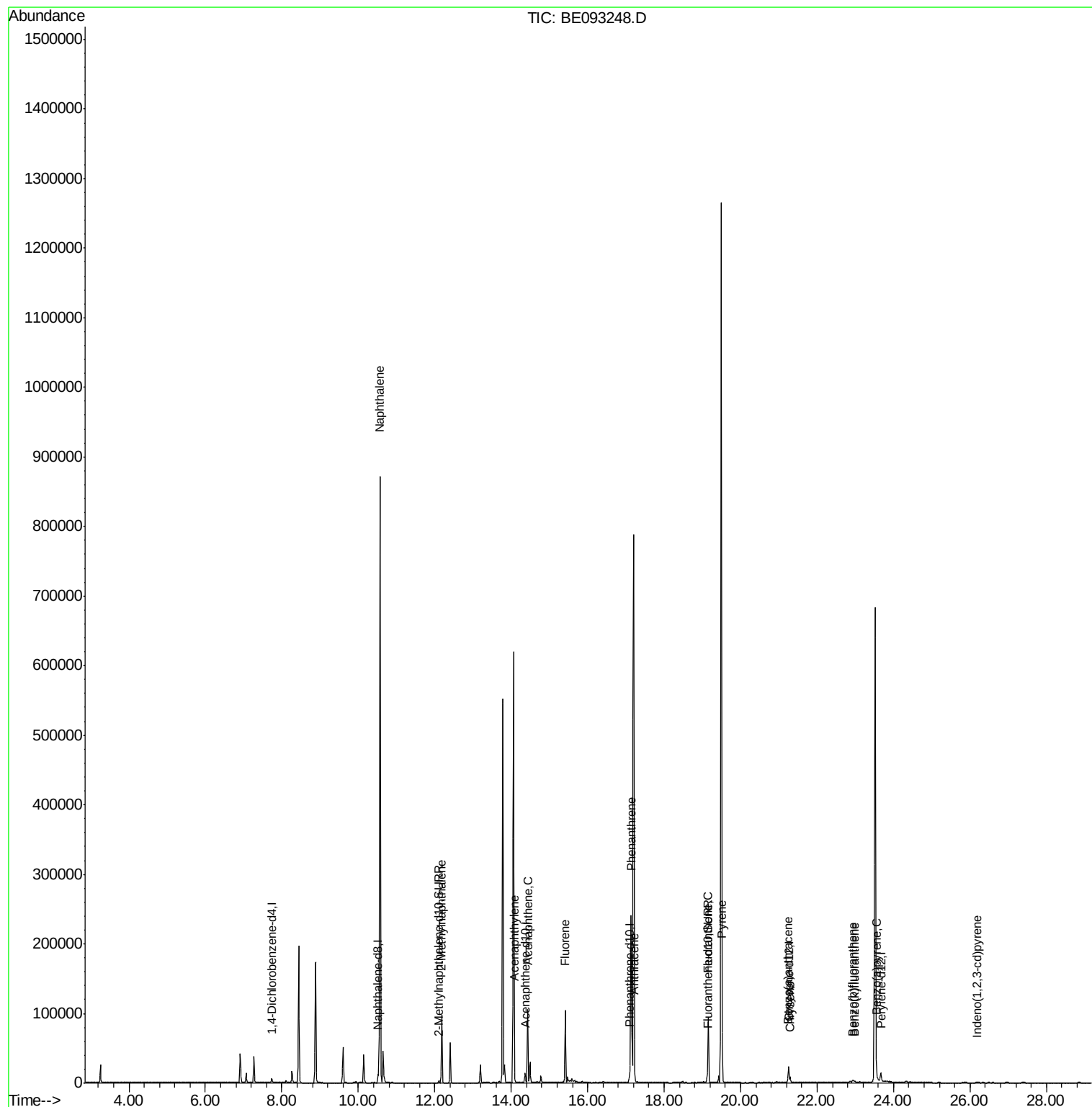
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061917\  
Data File : BE093248.D  
Acq On : 19 Jun 2017 13:35  
Operator : SJ/MA  
Sample : I3599-12  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

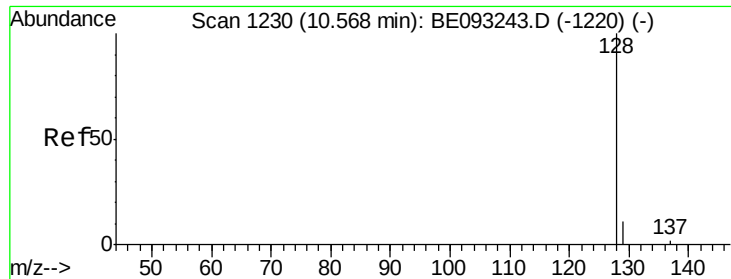
Instrument :  
BNA\_E  
ClientSampleId :  
F5B26

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Quant Time: Jun 20 07:41:53 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 20 04:17:17 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 40.695 ng/ul

RT: 10.57 min Scan# 1230

Delta R.T. 0.00 min

Lab File: BE093248.D

Acq: 19 Jun 2017 13:35

Instrument :

BNA\_E

ClientSampleId :

F5B26

Tgt Ion:128 Resp: 1284762

Ion Ratio Lower Upper

128 100

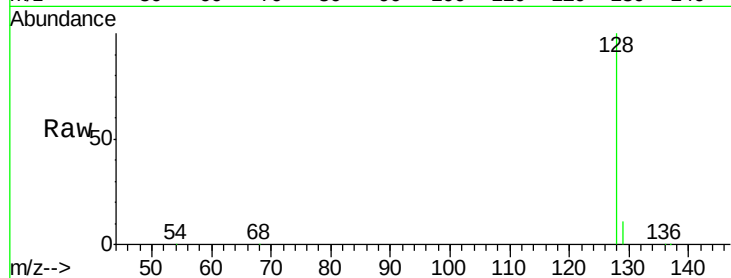
129 11.2 11.3 16.9#

127 0.0 4.0 6.0#

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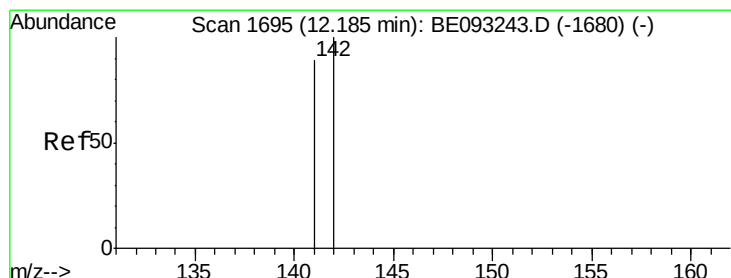
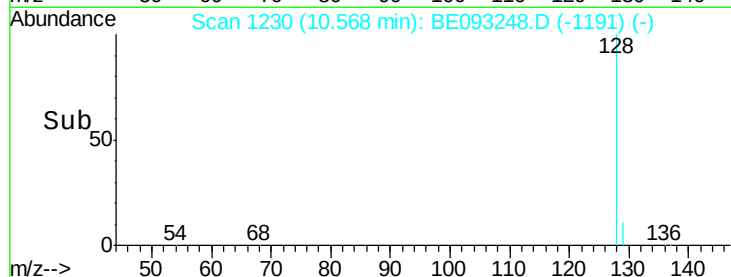
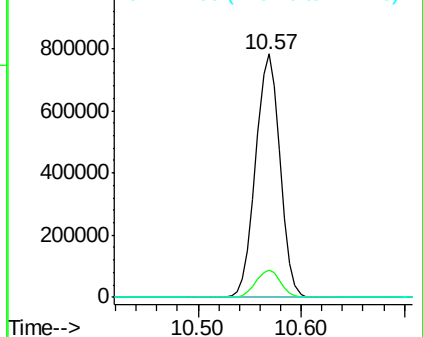
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Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#5

2-Methylnaphthalene

Concen: 3.749 ng/ul

RT: 12.18 min Scan# 1694

Delta R.T. -0.00 min

Lab File: BE093248.D

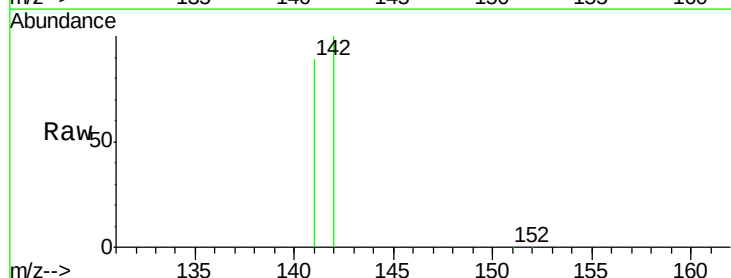
Acq: 19 Jun 2017 13:35

Tgt Ion:142 Resp: 80934

Ion Ratio Lower Upper

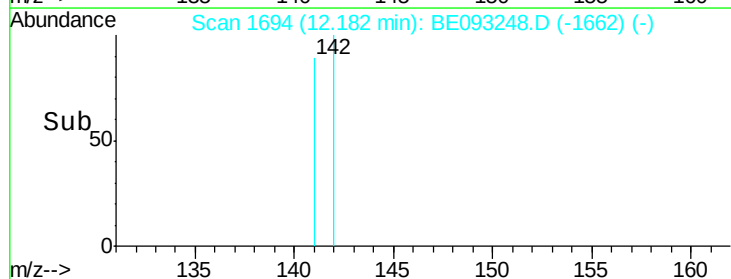
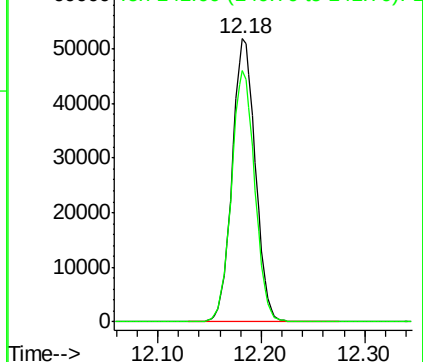
142 100

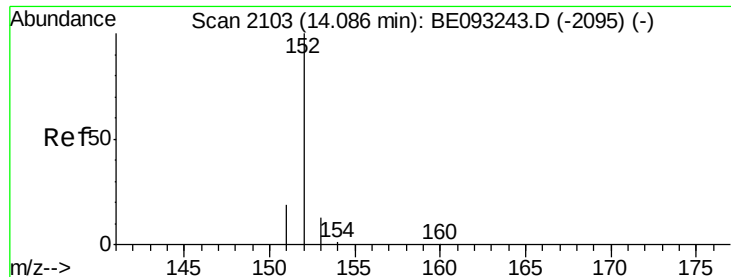
141 89.0 72.6 108.8



Abundance Ion 142.00 (141.70 to 142.70): E

Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.078 ng/ul

RT: 14.09 min Scan# 2103

Delta R.T. -0.00 min

Lab File: BE093248.D

Acq: 19 Jun 2017 13:35

Instrument :

BNA\_E

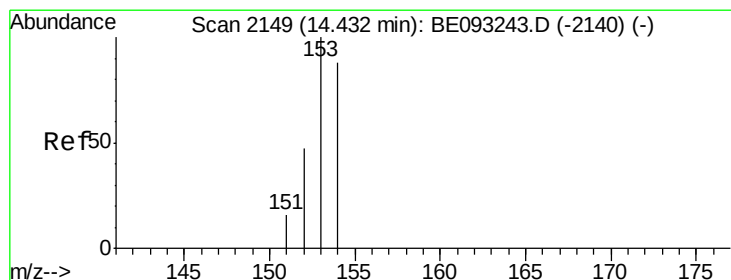
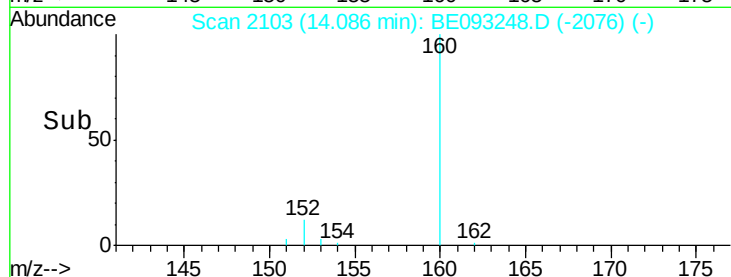
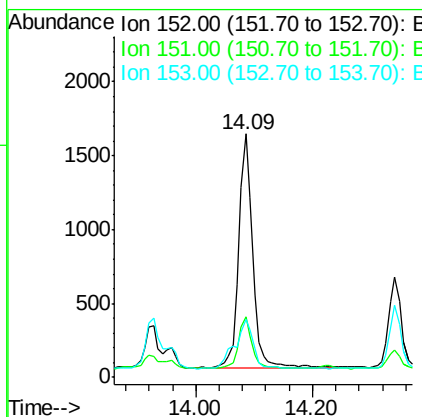
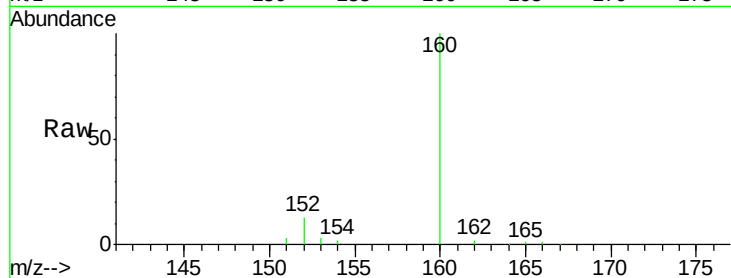
ClientSampleId :

F5B26

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 2652 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 24.8  | 17.1  | 25.7 |
| 153       | 24.1  | 12.8  | 19.2 |

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#8

Acenaphthene

Concen: 2.291 ng/ul

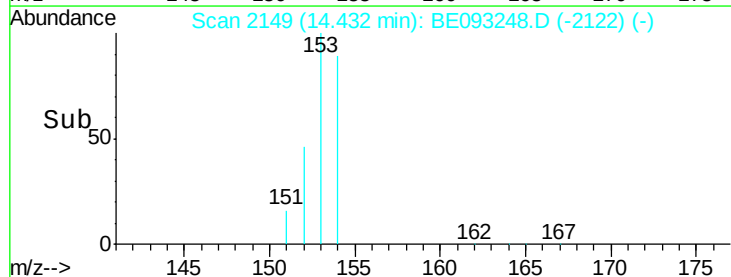
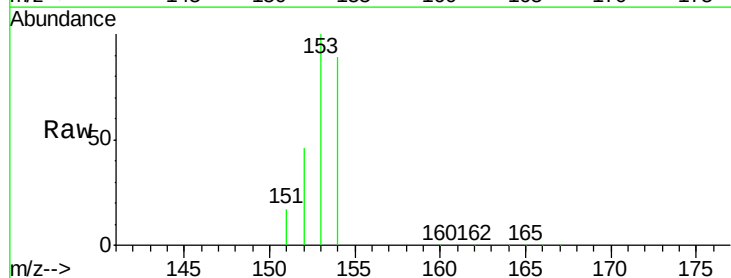
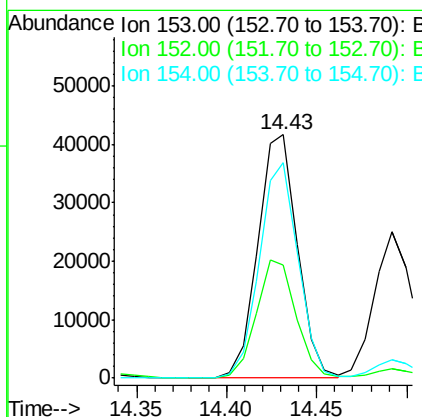
RT: 14.43 min Scan# 2149

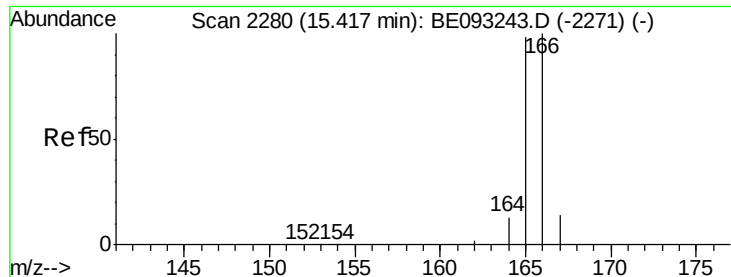
Delta R.T. -0.00 min

Lab File: BE093248.D

Acq: 19 Jun 2017 13:35

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 63214 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 46.3  | 40.3  | 60.5  |
| 154       | 88.7  | 71.4  | 107.2 |





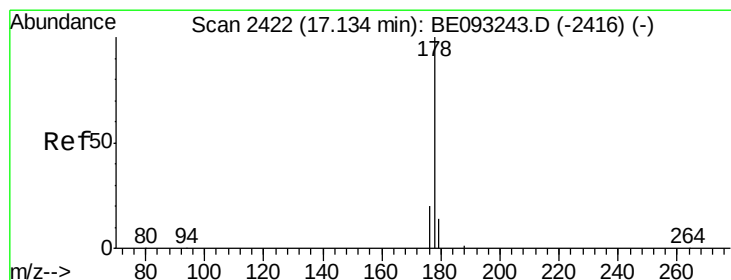
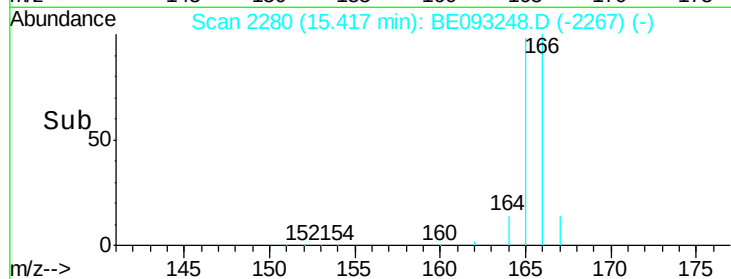
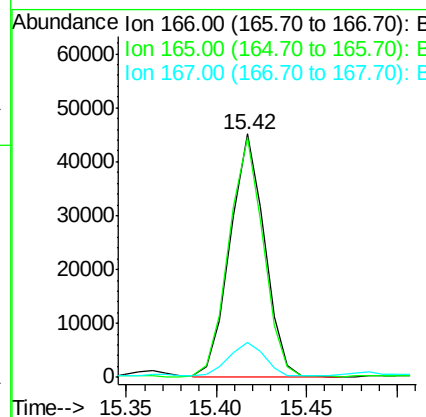
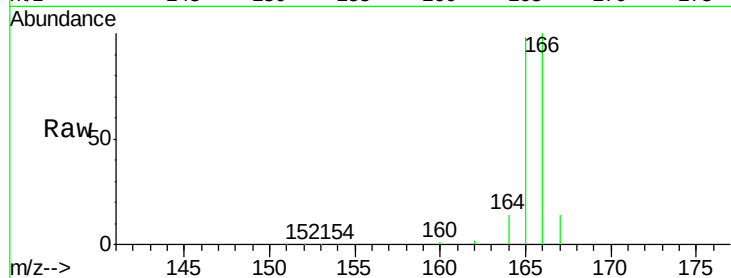
#9  
**Fluorene**  
 Concen: 1.850 ng/ul  
 RT: 15.42 min Scan# 2280  
 Delta R.T. -0.00 min  
 Lab File: BE093248.D  
 Acq: 19 Jun 2017 13:35

Instrument :  
 BNA\_E  
 ClientSampleId :  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 98.4  | 73.4  | 110.2 |
| 167     | 14.3  | 14.6  | 22.0  |

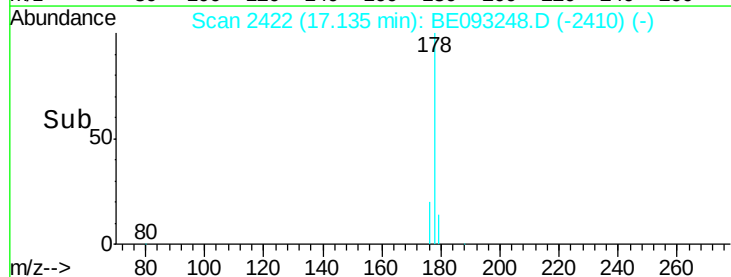
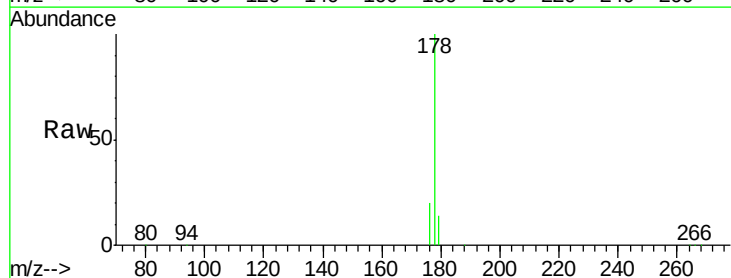
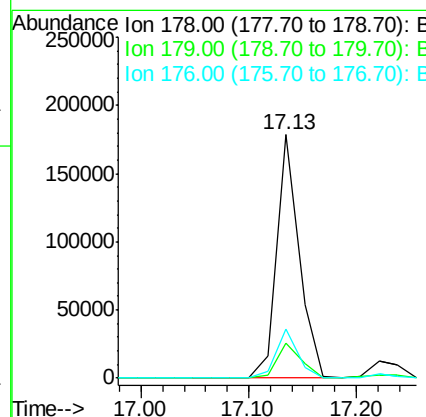
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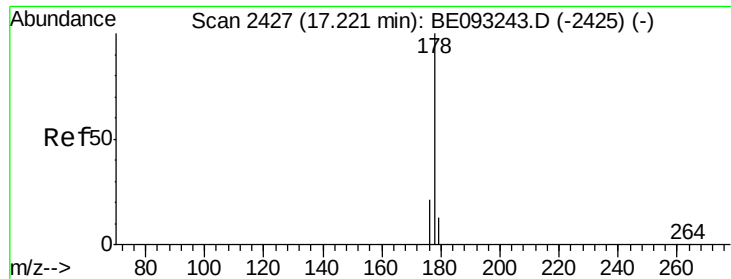
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#12  
**Phenanthrene**  
 Concen: 4.877 ng/ul  
 RT: 17.13 min Scan# 2422  
 Delta R.T. 0.00 min  
 Lab File: BE093248.D  
 Acq: 19 Jun 2017 13:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.4  | 18.4  | 27.6  |
| 176     | 20.3  | 13.6  | 20.4  |





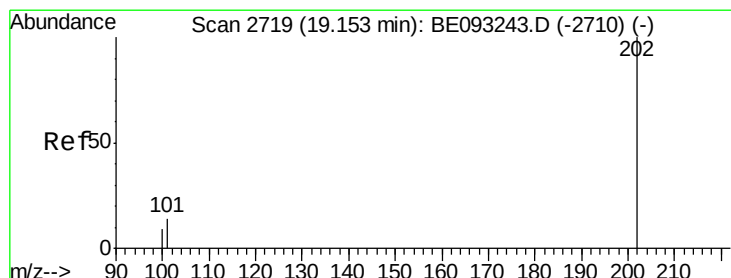
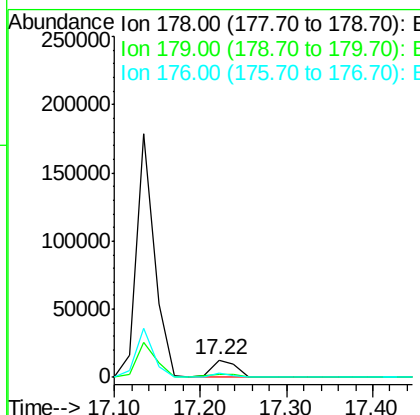
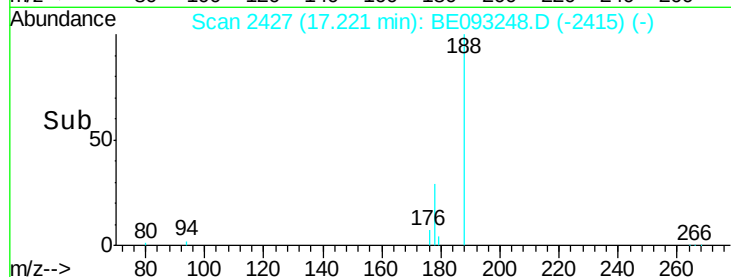
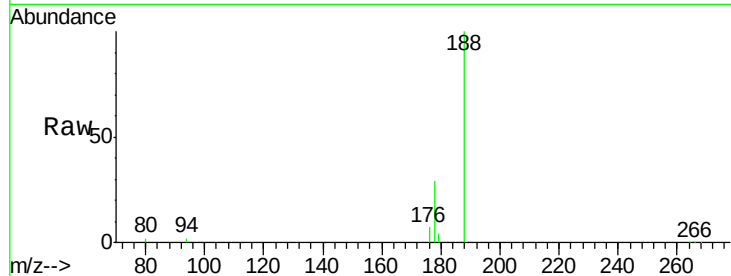
#13  
 Anthracene  
 Concen: 0.536 ng/ul  
 RT: 17.22 min Scan# 2427  
 Delta R.T. 0.00 min  
 Lab File: BE093248.D  
 Acq: 19 Jun 2017 13:35

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5B26

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 24836 |       |       |
| 179     | 14.4  | 18.1  | 27.1# |       |
| 176     | 23.1  | 14.7  | 22.1# |       |

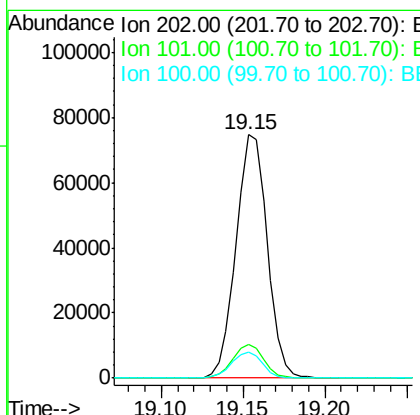
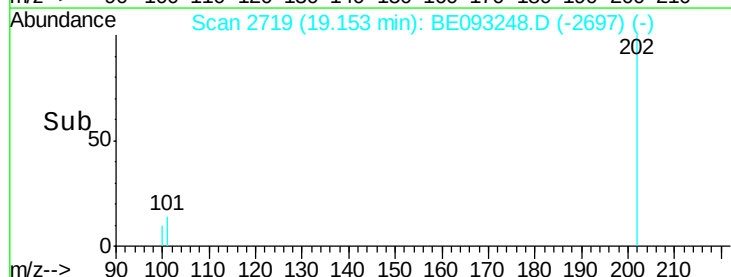
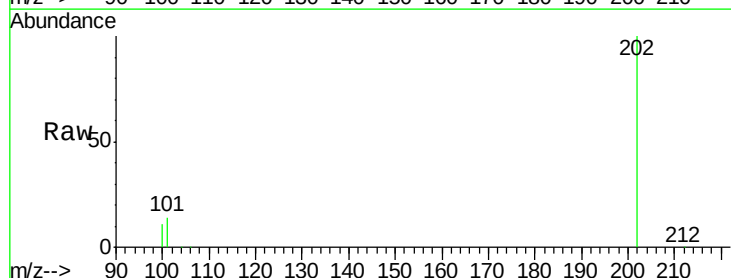
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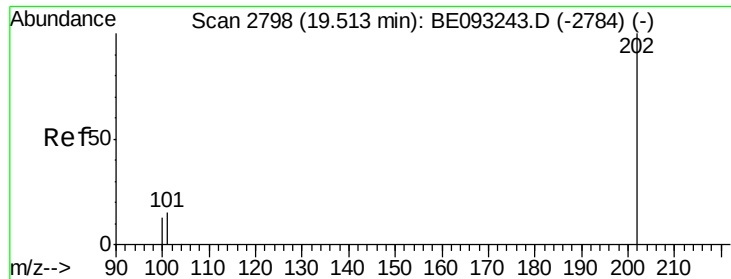
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#15  
 Fluoranthene  
 Concen: 1.507 ng/ul  
 RT: 19.15 min Scan# 2719  
 Delta R.T. -0.00 min  
 Lab File: BE093248.D  
 Acq: 19 Jun 2017 13:35

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 98309 |       |       |
| 101     | 14.1  | 0.0   | 30.3  |       |
| 100     | 10.5  | 0.0   | 39.5  |       |





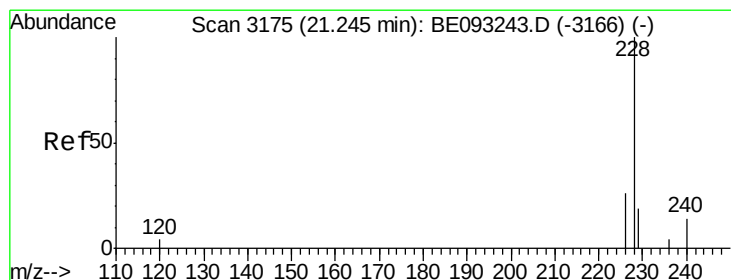
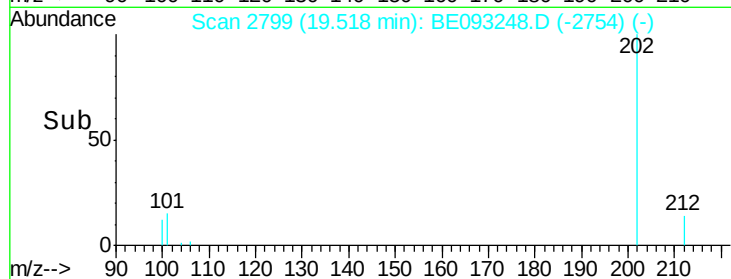
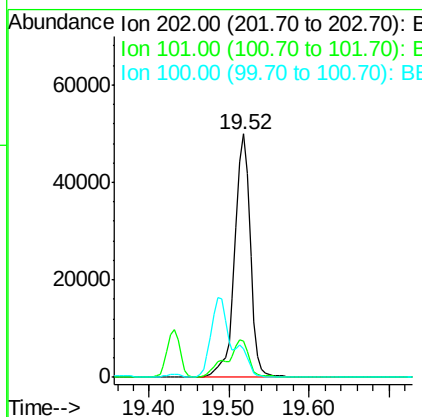
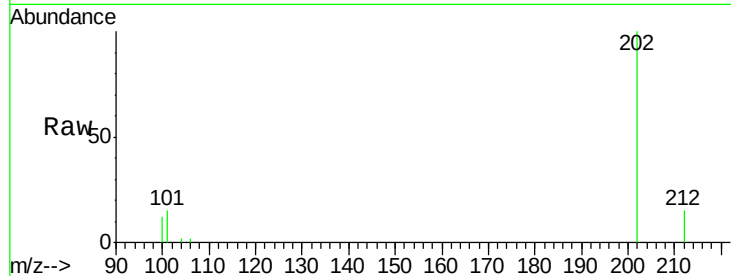
#17  
Pyrene  
Concen: 1.190 ng/ul  
RT: 19.52 min Scan# 2799  
Delta R.T. 0.00 min  
Lab File: BE093248.D  
Acq: 19 Jun 2017 13:35

Instrument :  
BNA\_E  
ClientSampleId :  
F5B26

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 66907 |       |       |
| 101     | 15.1  | 18.2  | 27.4# |       |
| 100     | 12.0  | 15.6  | 23.4# |       |

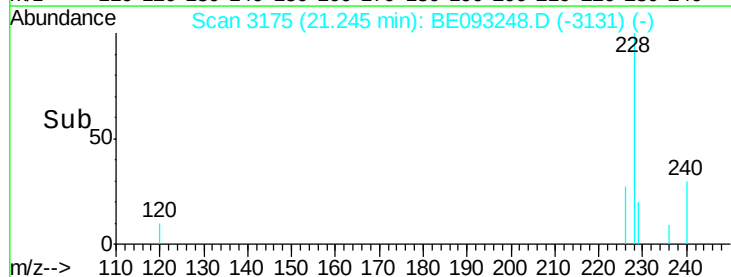
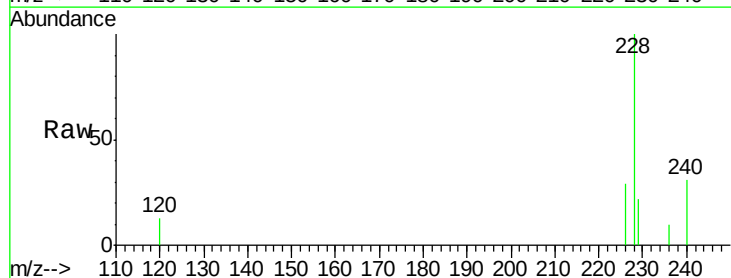
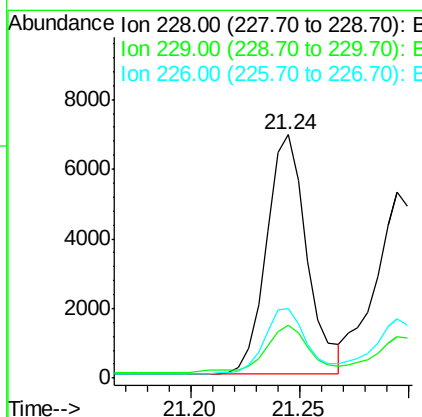
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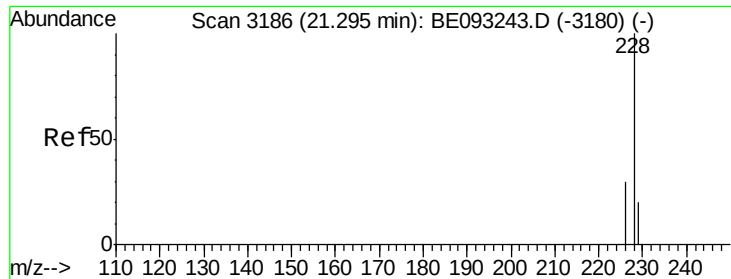
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#18  
Benzo(a)anthracene  
Concen: 0.174 ng/ul  
RT: 21.24 min Scan# 3175  
Delta R.T. -0.00 min  
Lab File: BE093248.D  
Acq: 19 Jun 2017 13:35

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 228     | 100   | 8854 |       |       |
| 229     | 22.0  | 22.8 | 34.2# |       |
| 226     | 28.6  | 17.0 | 25.6# |       |





#19

Chrysene

Concen: 0.146 ng/ul

RT: 21.29 min Scan# 3186

Delta R.T. -0.00 min

Lab File: BE093248.D

Acq: 19 Jun 2017 13:35

Instrument :

BNA\_E

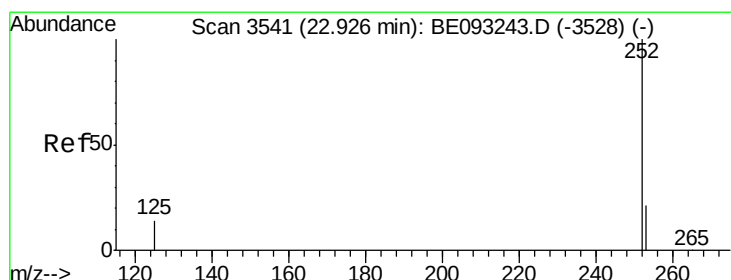
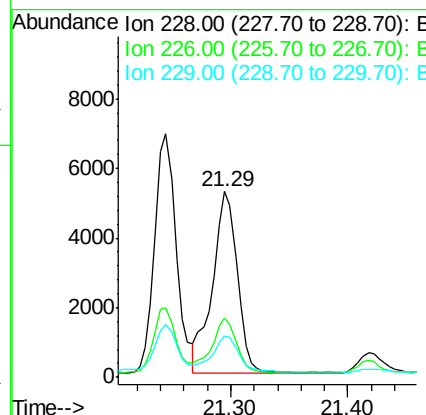
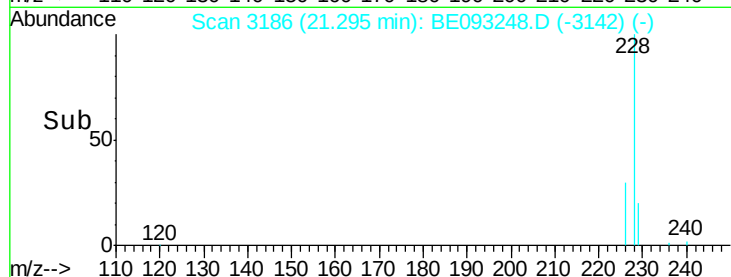
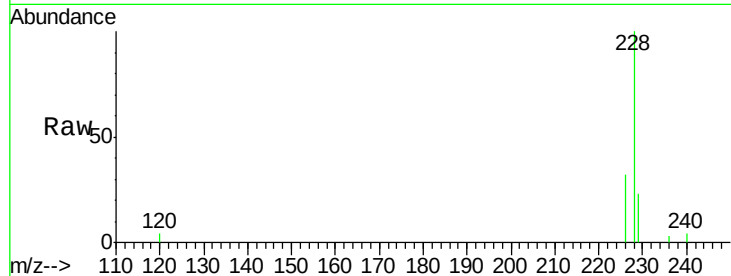
ClientSampleId :

F5B26

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 7691 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 31.9  | 23.4  | 35.0 |
| 229       | 22.5  | 17.7  | 26.5 |

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#21

Benzo(b)fluoranthene

Concen: 0.092 ng/ul

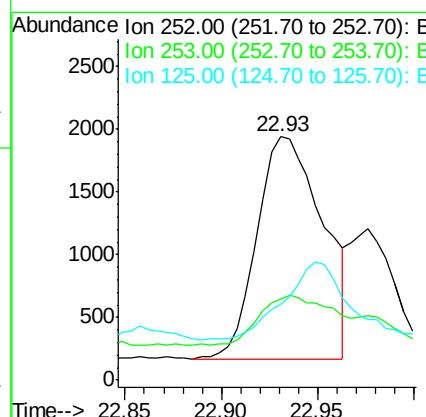
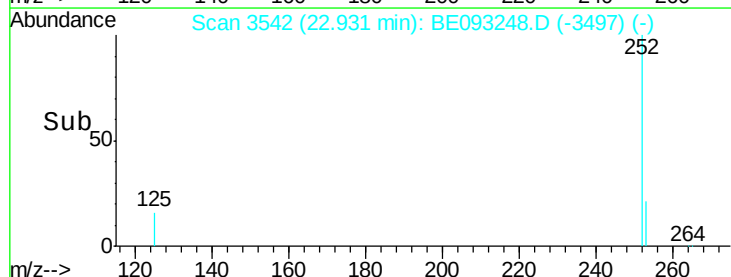
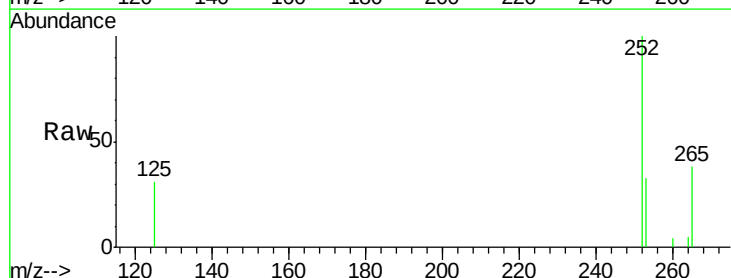
RT: 22.93 min Scan# 3542

Delta R.T. 0.00 min

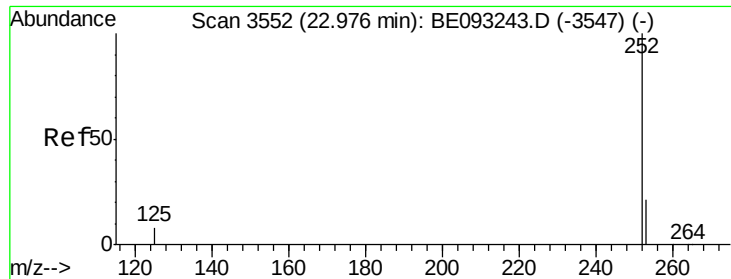
Lab File: BE093248.D

Acq: 19 Jun 2017 13:35

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 4219 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 33.4  | 0.0   | 64.2 |
| 125       | 31.4  | 0.0   | 35.0 |







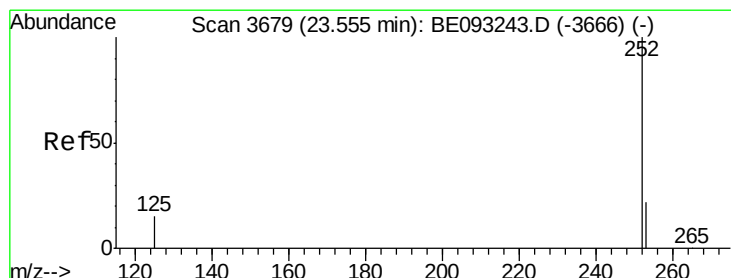
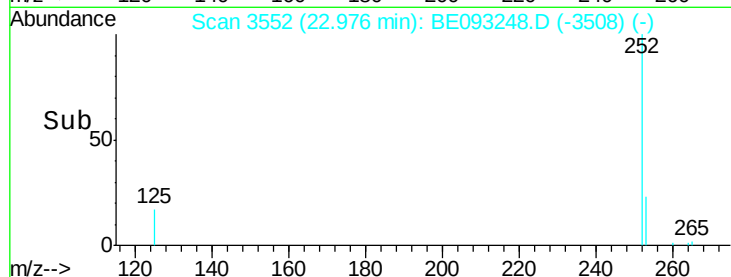
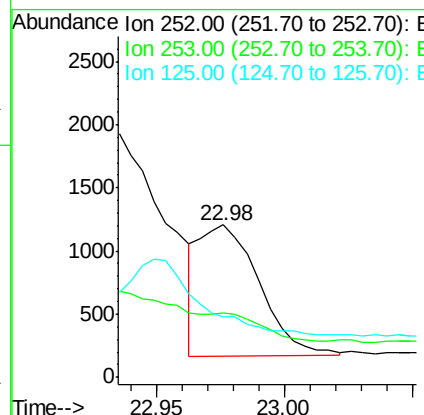
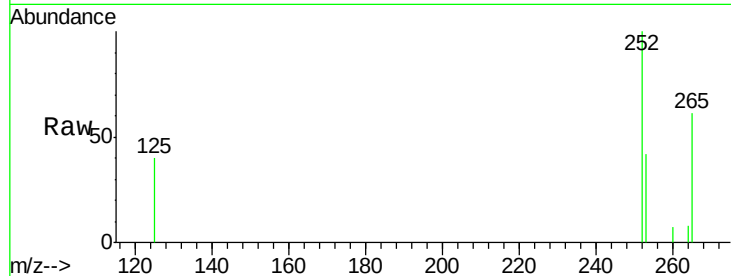
#22  
Benzo(k)fluoranthene  
Concen: 0.035 ng/ul m  
RT: 22.98 min Scan# 3552  
Delta R.T. -0.00 min  
Lab File: BE093248.D  
Acq: 19 Jun 2017 13:35

Instrument :  
BNA\_E  
ClientSampleId :  
F5B26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 42.3  | 24.5  | 36.7# |
| 125     | 39.7  | 13.7  | 20.5# |

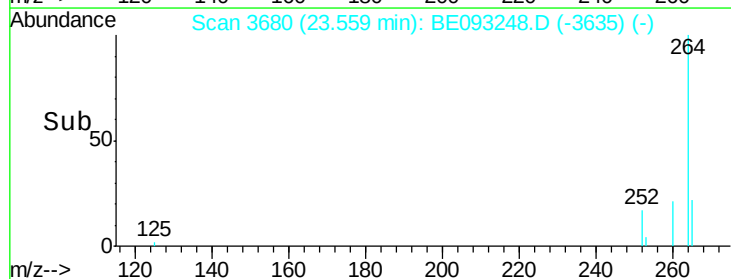
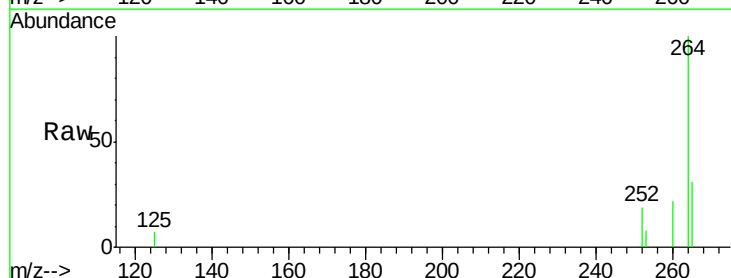
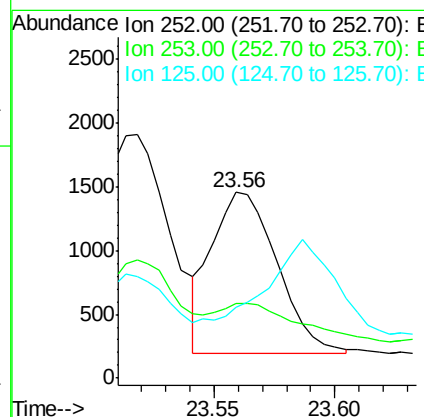
Manual Integrations  
APPROVED

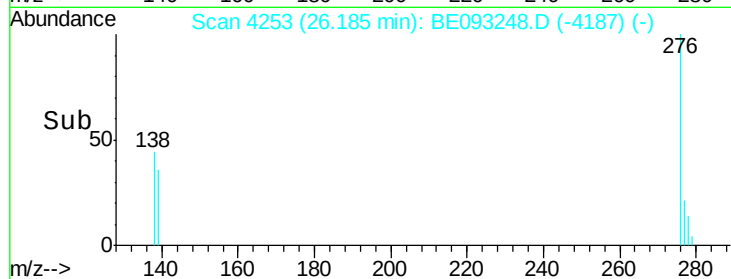
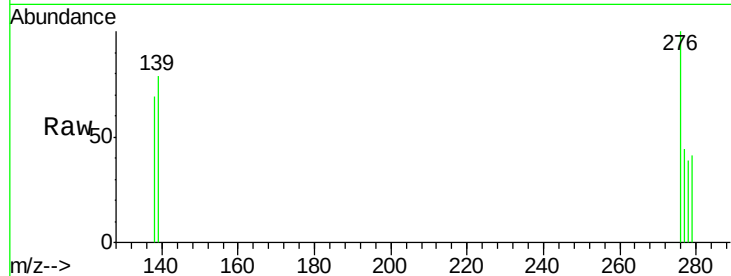
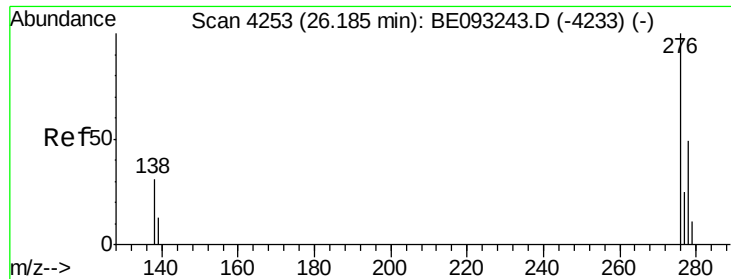
mohammad  
6/20/2017 3:12:10 PM



#23  
Benzo(a)pyrene  
Concen: 0.055 ng/ul m  
RT: 23.56 min Scan# 3680  
Delta R.T. 0.00 min  
Lab File: BE093248.D  
Acq: 19 Jun 2017 13:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 40.3  | 28.5  | 42.7  |
| 125     | 38.6  | 18.1  | 27.1# |





#24

Indeno(1,2,3-cd)pyrene

Concen: 0.019 ng/ul m

RT: 26.19 min Scan# 4253

Delta R.T. 0.00 min

Lab File: BE093248.D

Acq: 19 Jun 2017 13:35

Instrument :

BNA\_E

ClientSampleId :

F5B26

Tgt Ion: 276 Resp: 943

Ion Ratio Lower Upper

276 100

138 5.0 28.0 42.0#

227 0.0 8.0 12.0#

Manual Integrations  
APPROVED

mohammad  
6/20/2017 3:12:10 PM

