

Data Path : Z:\HPCHEM1\BNA E\DATA\BE081617\  
 Data File : BE093852.D  
 Acq On : 16 Aug 2017 22:32  
 Operator : SJ/JU  
 Sample : I4672-03  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AG5

Manual Integrations  
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 8/17/2017 5:59:47 PM

Quant Time: Aug 17 04:30:02 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE072417.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Aug 17 02:52:40 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.92  | 152  | 2329     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.70 | 136  | 11926    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.52 | 164  | 7350     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.26 | 188  | 15240    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.41 | 240  | 16628    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.91 | 264  | 14383m   | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.28 | 152  | 4336     | 0.22   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.27 | 212  | 11267    | 0.23   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.75 | 128  | 43739    | 1.508  | ng/ul# | 91       |
| 5) 2-Methylnaphthalene      | 12.36 | 142  | 33589    | 1.587  | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.24 | 152  | 51234    | 1.666  | ng/ul  | 97       |
| 8) Acenaphthene             | 14.58 | 153  | 5174     | 0.214  | ng/ul  | 95       |
| 9) Fluorene                 | 15.57 | 166  | 16886    | 0.552  | ng/ul  | 91       |
| 12) Phenanthrene            | 17.29 | 178  | 322129   | 7.761  | ng/ul# | 90       |
| 13) Anthracene              | 17.38 | 178  | 73010    | 1.806  | ng/ul# | 90       |
| 15) Fluoranthene            | 19.30 | 202  | 766974   | 14.777 | ng/ul  | 84       |
| 17) Pyrene                  | 19.66 | 202  | 664141   | 13.683 | ng/ul# | 84       |
| 18) Benzo(a)anthracene      | 21.39 | 228  | 400005   | 8.297  | ng/ul# | 83       |
| 19) Chrysene                | 21.45 | 228  | 381418   | 8.248  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 23.15 | 252  | 497391   | 11.179 | ng/ul  | 86       |
| 22) Benzo(k)fluoranthene    | 23.20 | 252  | 236151m  | 5.382  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.81 | 252  | 366109m  | 8.651  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 26.56 | 276  | 247834m  | 5.304  | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 26.57 | 278  | 59715m   | 1.530  | ng/ul  |          |
| 26) Benzo(a,h,i)perylene    | 27.38 | 276  | 202756m  | 5.150  | ng/ul  |          |

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

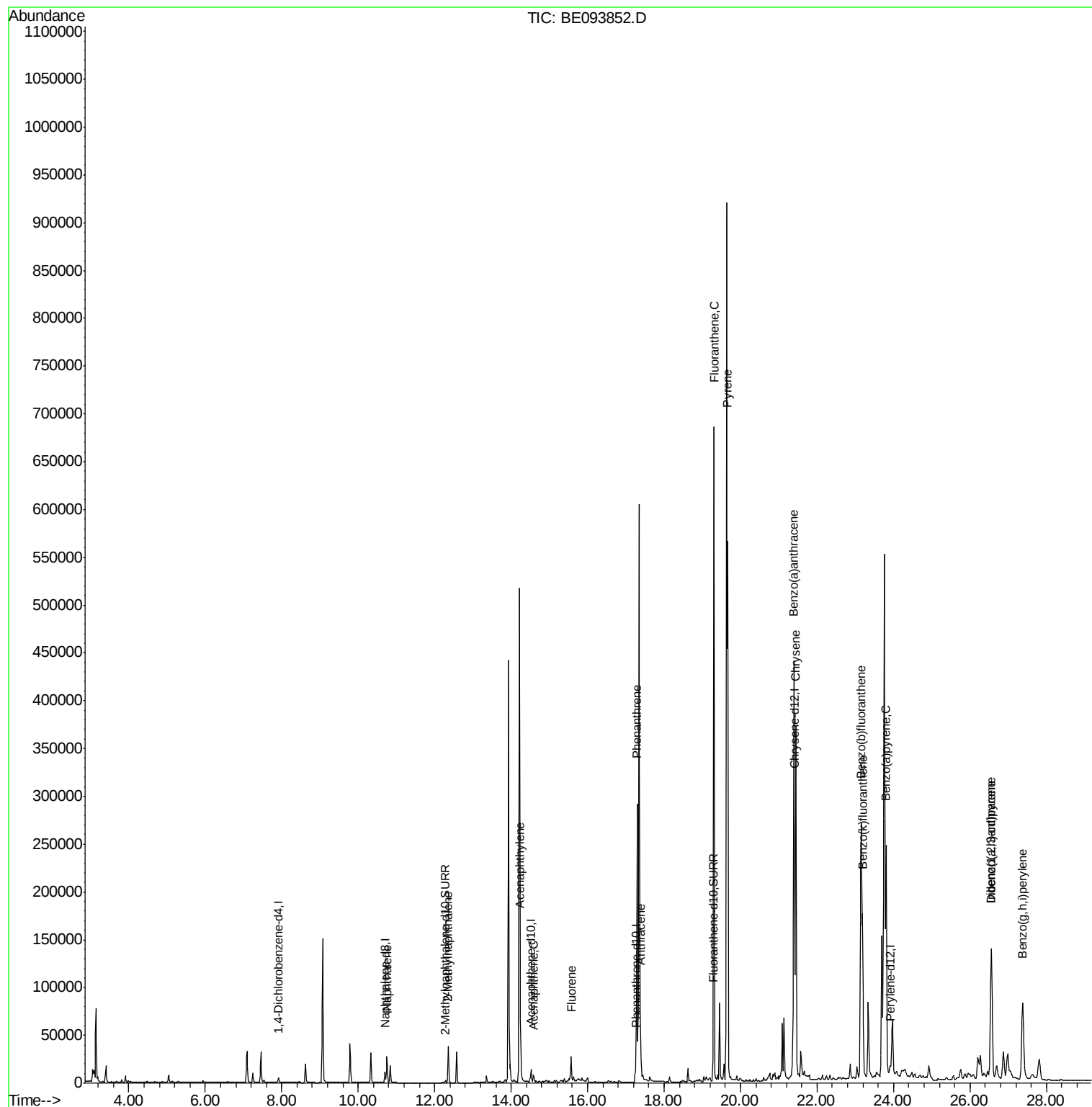
Data Path : Z:\HPCHEM1\BNA E\DATA\BE081617\  
Data File : BE093852.D  
Acq On : 16 Aug 2017 22:32  
Operator : SJ/JU  
Sample : I4672-03  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

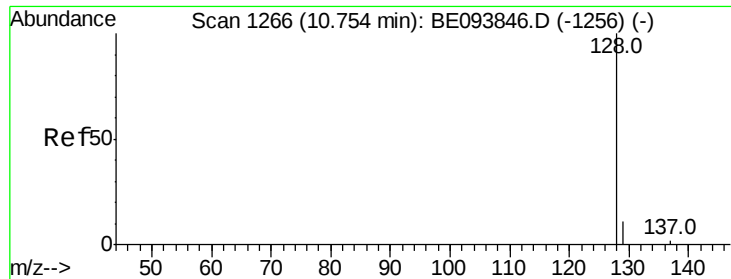
Instrument :  
BNA\_E  
ClientSampleId :  
C0AG5

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Quant Time: Aug 17 04:30:02 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE072417.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Aug 17 02:52:40 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 1.508 ng/ul

RT: 10.75 min Scan# 1266

Delta R.T. 0.00 min

Lab File: BE093852.D

Acq: 16 Aug 2017 22:32

Instrument :

BNA\_E

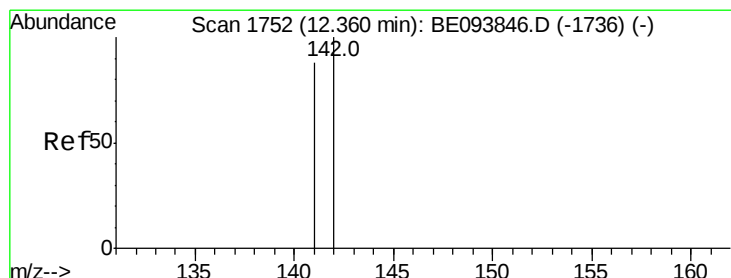
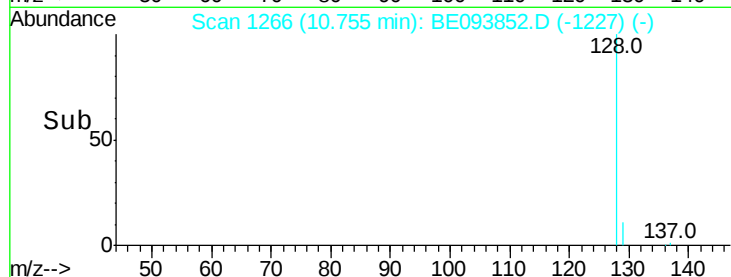
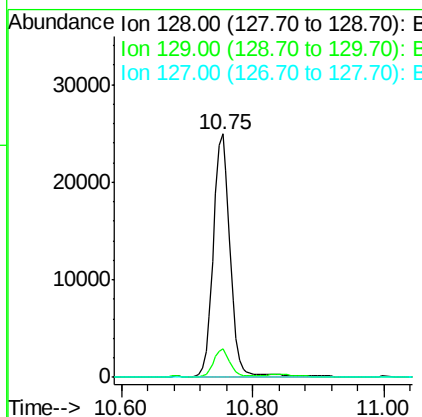
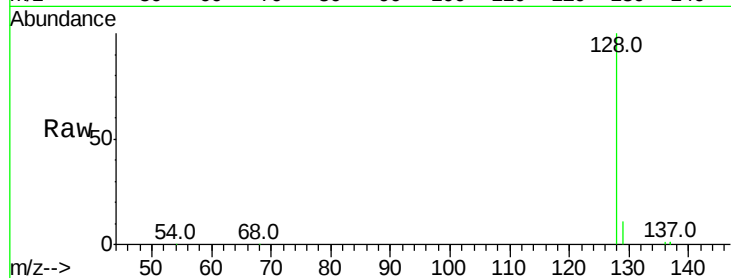
ClientSampleId :

C0AG5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.5  | 11.3  | 16.9  |
| 127     | 0.0   | 4.0   | 6.0   |

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#5

2-Methylnaphthalene

Concen: 1.587 ng/ul

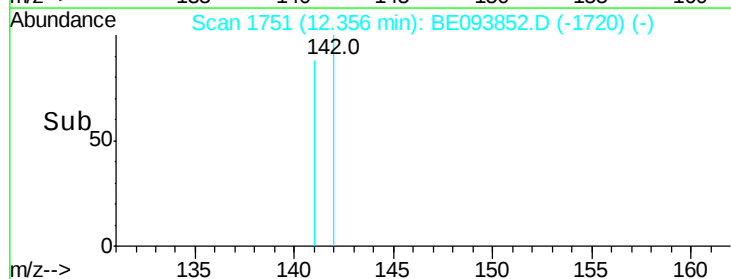
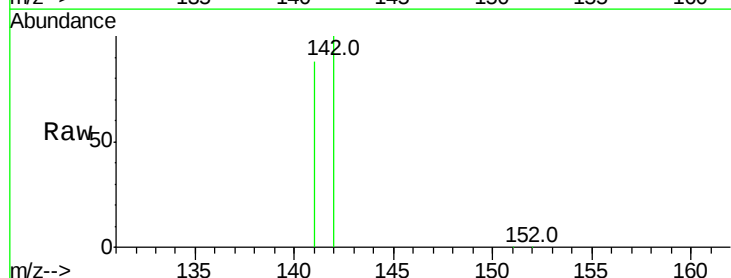
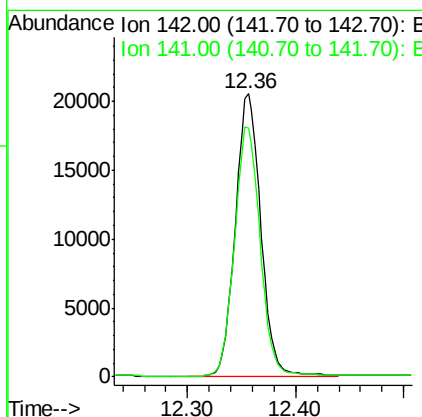
RT: 12.36 min Scan# 1751

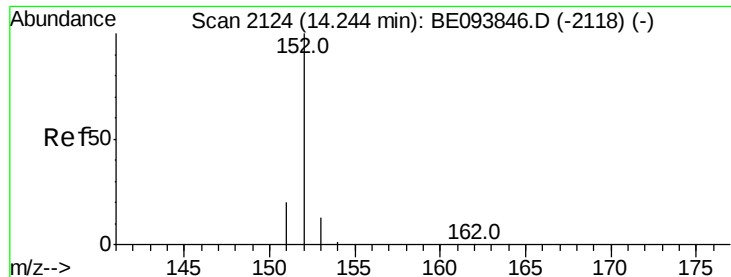
Delta R.T. -0.00 min

Lab File: BE093852.D

Acq: 16 Aug 2017 22:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 89.1  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 1.666 ng/ul

RT: 14.24 min Scan# 2124

Delta R.T. -0.00 min

Lab File: BE093852.D

Acq: 16 Aug 2017 22:32

Instrument :

BNA\_E

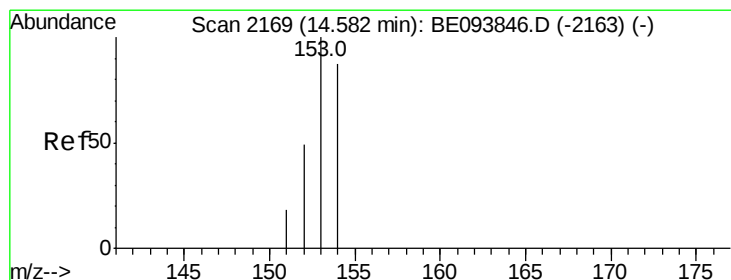
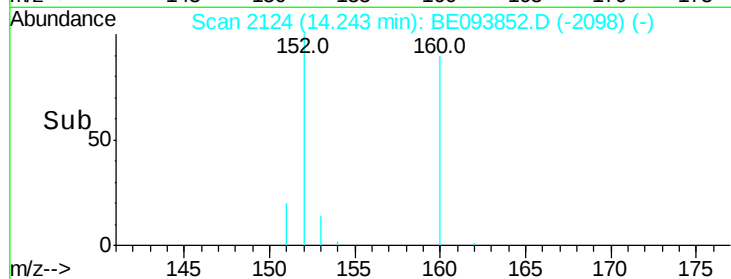
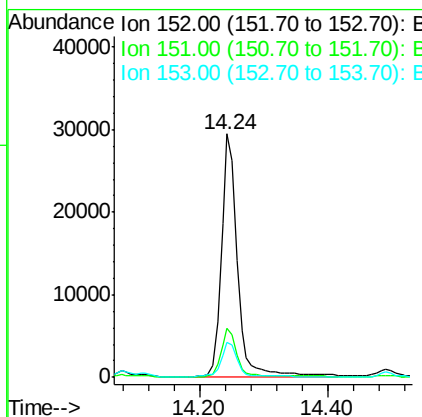
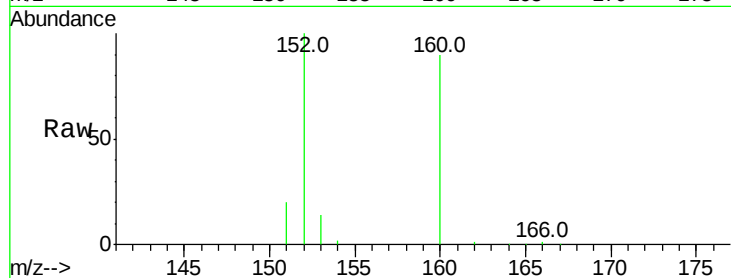
ClientSampleId :

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 51234 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.2  | 17.1  | 25.7  |
| 153       | 14.2  | 12.8  | 19.2  |

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#8

Acenaphthene

Concen: 0.214 ng/ul

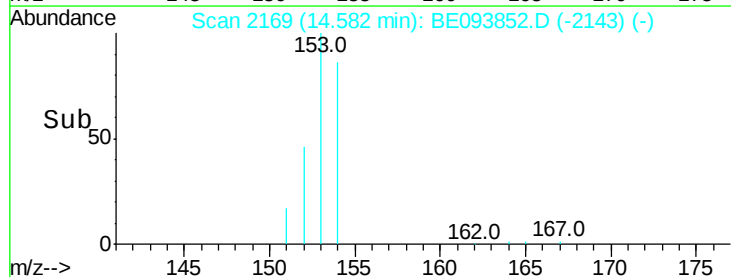
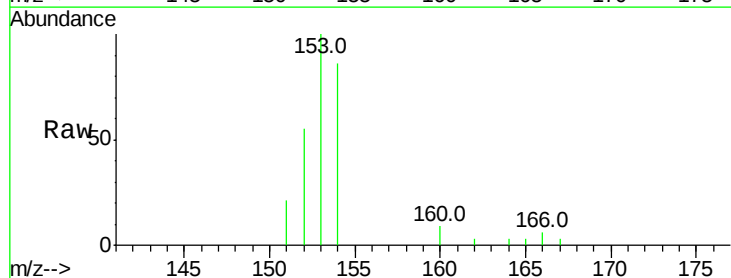
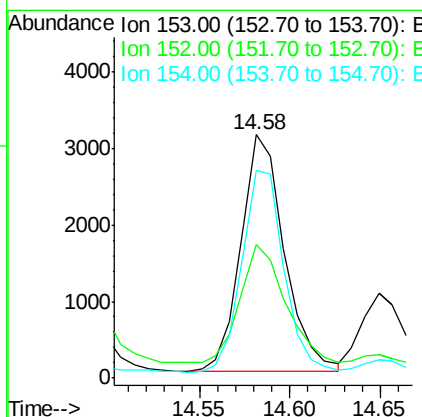
RT: 14.58 min Scan# 2169

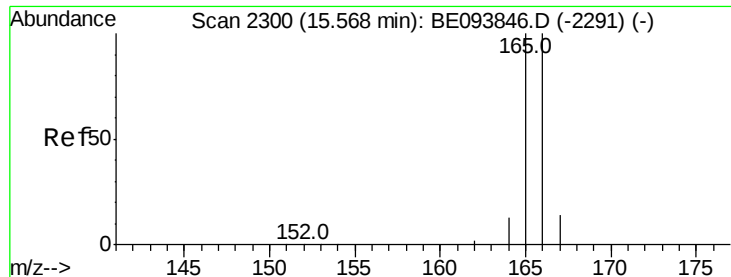
Delta R.T. -0.00 min

Lab File: BE093852.D

Acq: 16 Aug 2017 22:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 5174  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 54.7  | 40.3  | 60.5  |
| 154       | 85.6  | 71.4  | 107.2 |





#9

Fluorene

Concen: 0.552 ng/ul

RT: 15.57 min Scan# 2300

Delta R.T. -0.00 min

Lab File: BE093852.D

Acq: 16 Aug 2017 22:32

Instrument :

BNA\_E

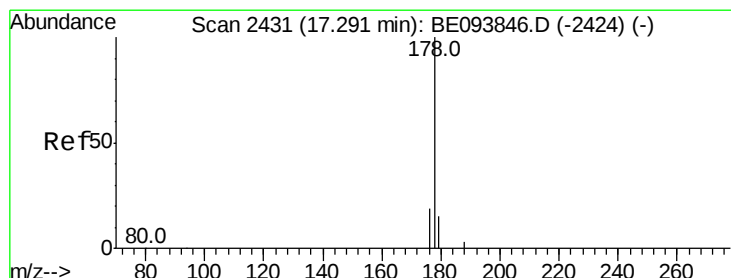
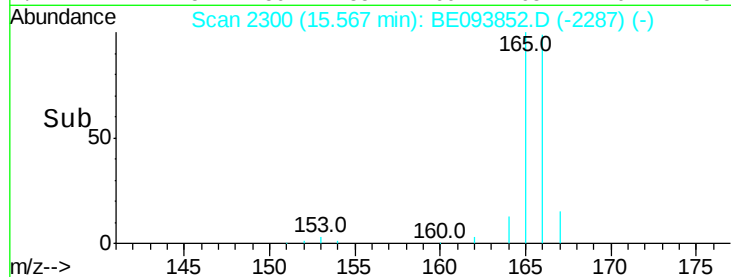
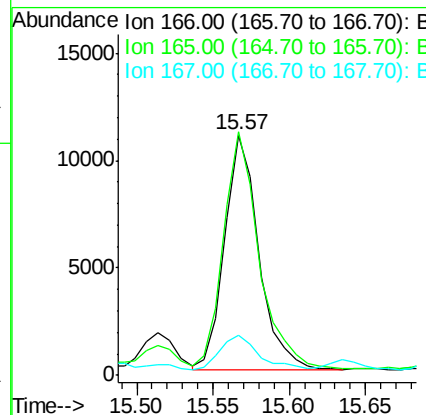
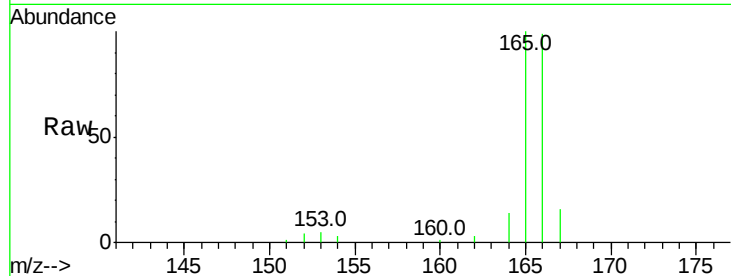
ClientSampleId :

C0AG5

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 16886 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 101.5 | 73.4  | 110.2 |
| 167       | 16.6  | 14.6  | 22.0  |

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#12

Phenanthrene

Concen: 7.761 ng/ul

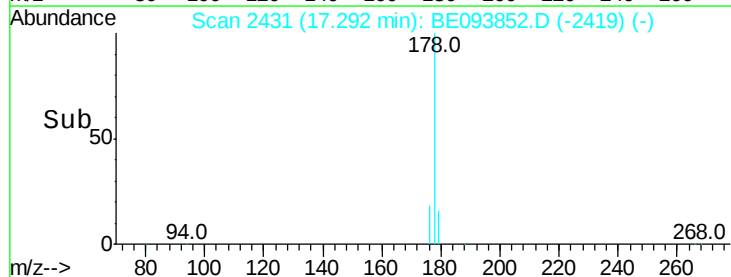
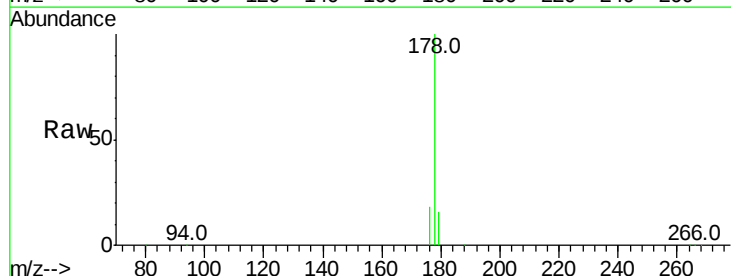
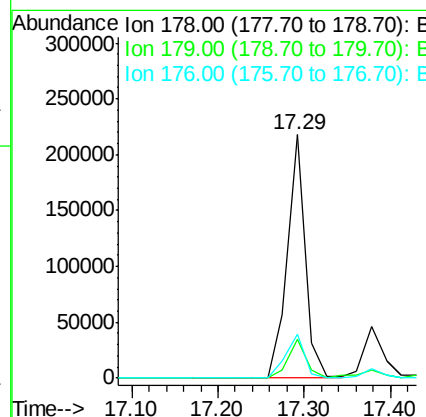
RT: 17.29 min Scan# 2431

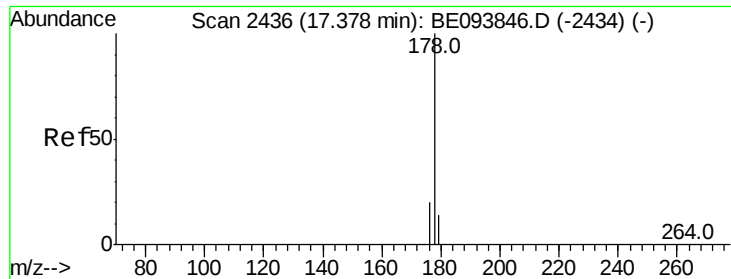
Delta R.T. 0.00 min

Lab File: BE093852.D

Acq: 16 Aug 2017 22:32

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 322129 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.8  | 18.4  | 27.6#  |
| 176       | 18.2  | 13.6  | 20.4   |





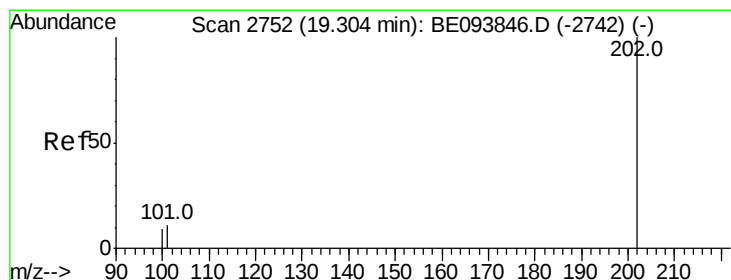
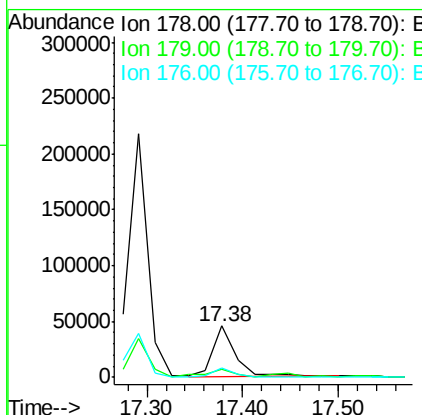
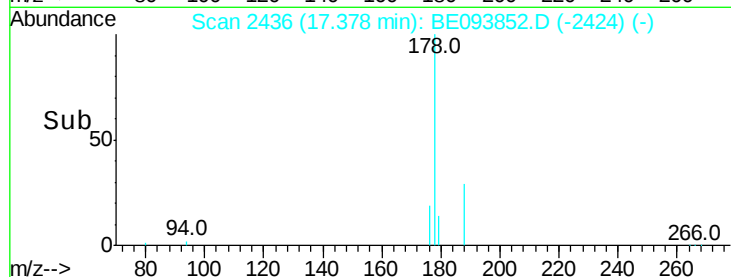
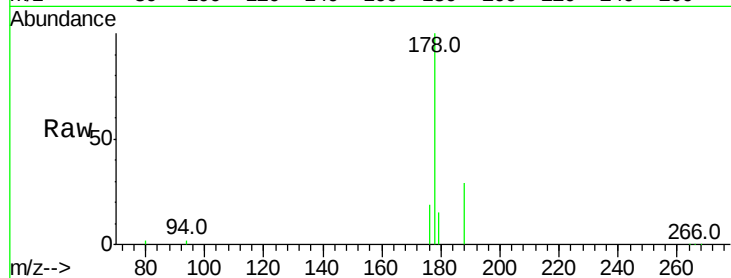
#13  
 Anthracene  
 Concen: 1.806 ng/ul  
 RT: 17.38 min Scan# 2436  
 Delta R.T. 0.00 min  
 Lab File: BE093852.D  
 Acq: 16 Aug 2017 22:32

Instrument :  
 BNA\_E  
 ClientSampled :  
 C0AG5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.8  | 18.1  | 27.1# |
| 176     | 19.3  | 14.7  | 22.1  |

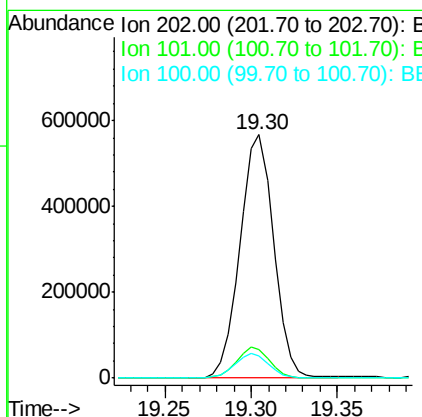
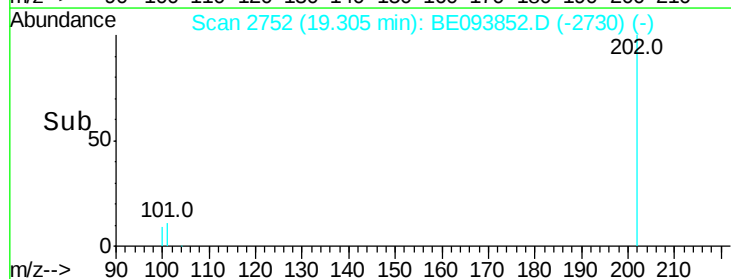
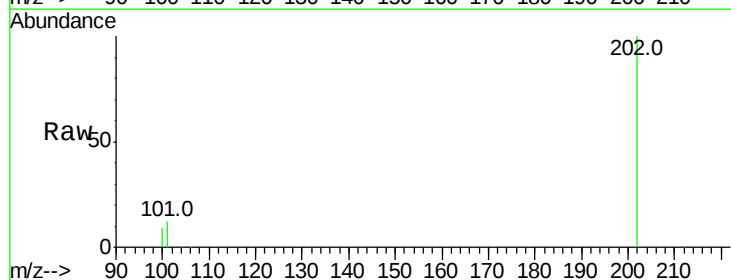
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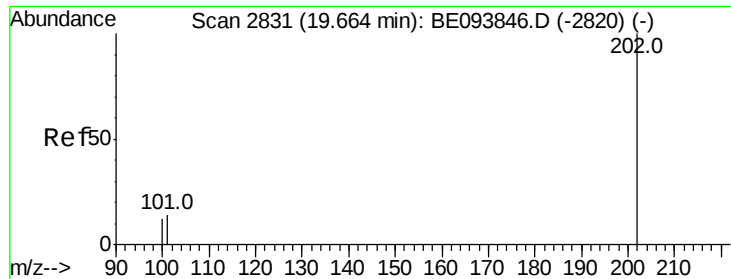
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 8/17/2017 5:59:47 PM



#15  
 Fluoranthene  
 Concen: 14.777 ng/ul  
 RT: 19.30 min Scan# 2752  
 Delta R.T. 0.00 min  
 Lab File: BE093852.D  
 Acq: 16 Aug 2017 22:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.7  | 0.0   | 30.3  |
| 100     | 9.2   | 0.0   | 39.5  |





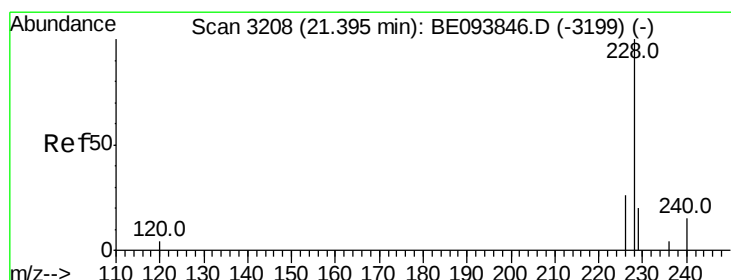
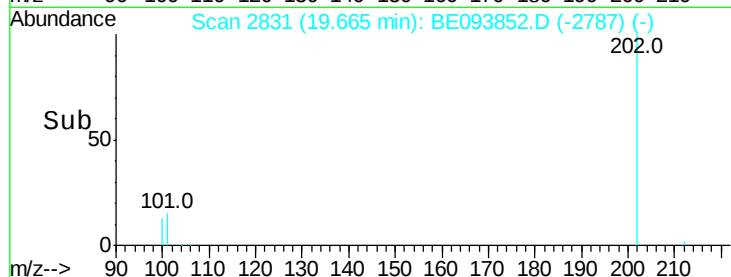
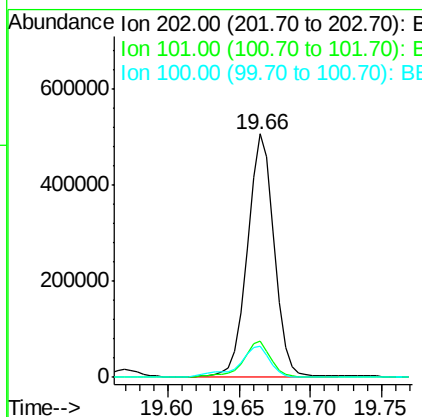
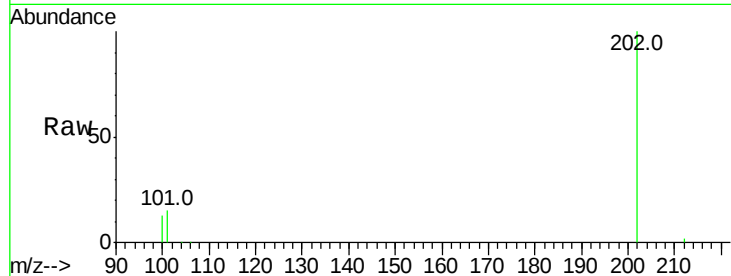
#17  
Pvrene  
Concen: 13.683 ng/ul  
RT: 19.66 min Scan# 2831  
Delta R.T. 0.00 min  
Lab File: BE093852.D  
Acq: 16 Aug 2017 22:32

Instrument :  
BNA\_E  
ClientSampleId :  
C0AG5

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.8  | 18.2  | 27.4# |
| 100     | 12.7  | 15.6  | 23.4# |

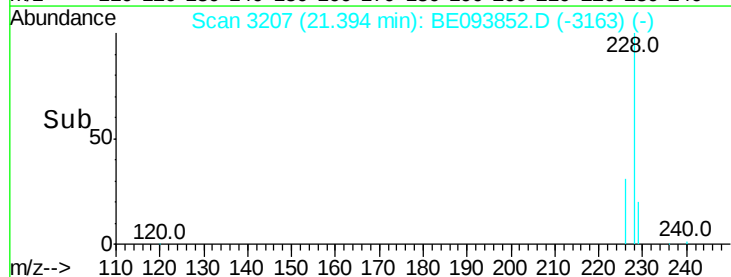
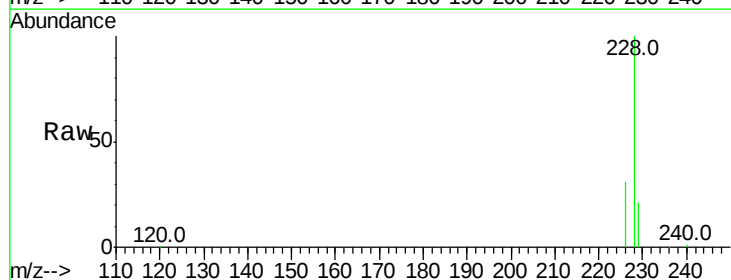
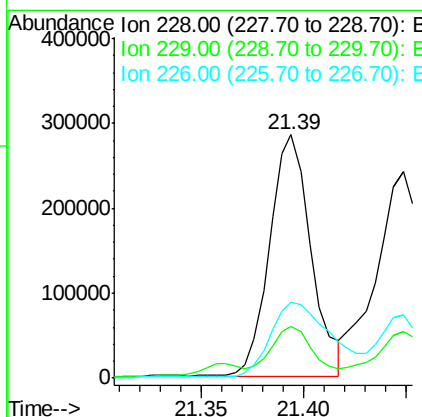
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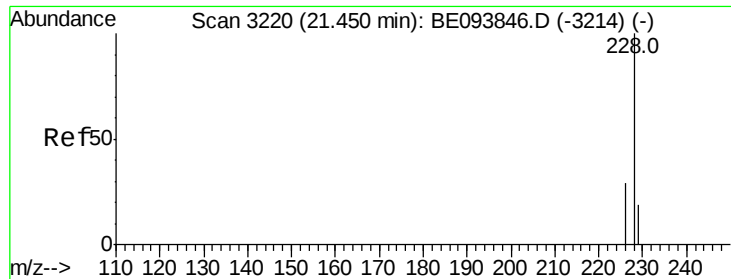
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#18  
Benzo(a)anthracene  
Concen: 8.297 ng/ul  
RT: 21.39 min Scan# 3207  
Delta R.T. -0.00 min  
Lab File: BE093852.D  
Acq: 16 Aug 2017 22:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 21.1  | 22.8  | 34.2# |
| 226     | 31.4  | 17.0  | 25.6# |





#19

Chrysene

Concen: 8.248 ng/ul

RT: 21.45 min Scan# 3219

Delta R.T. -0.00 min

Lab File: BE093852.D

Acq: 16 Aug 2017 22:32

Instrument :

BNA\_E

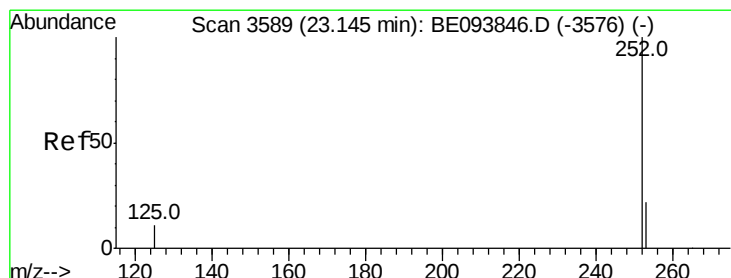
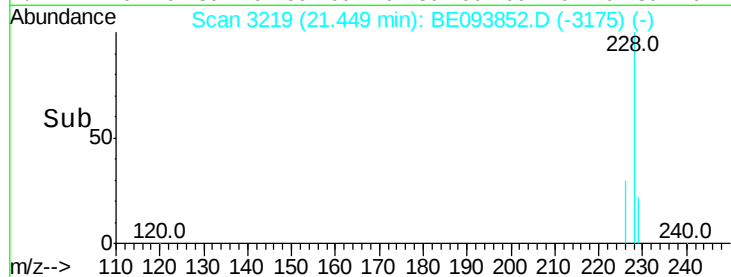
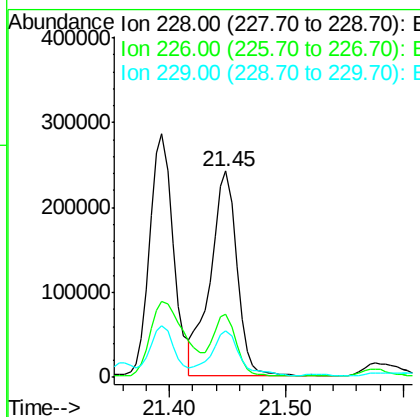
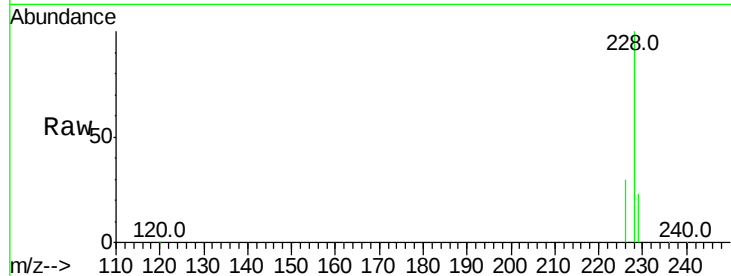
ClientSampleId :

C0AG5

|           |      |       |        |
|-----------|------|-------|--------|
| Tot Ion:  | 228  | Resp: | 381418 |
| Ion Ratio |      | Lower | Upper  |
| 228       | 100  |       |        |
| 226       | 30.5 | 23.4  | 35.0   |
| 229       | 22.7 | 17.7  | 26.5   |

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#21

Benzo(b)fluoranthene

Concen: 11.179 ng/ul

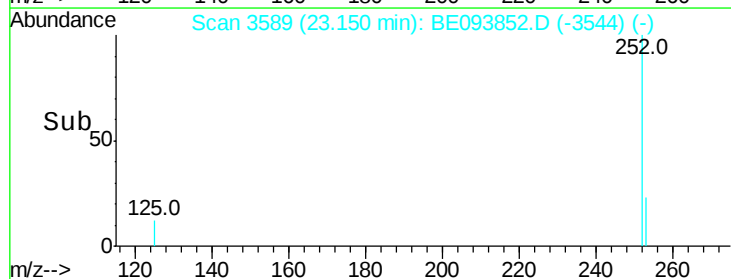
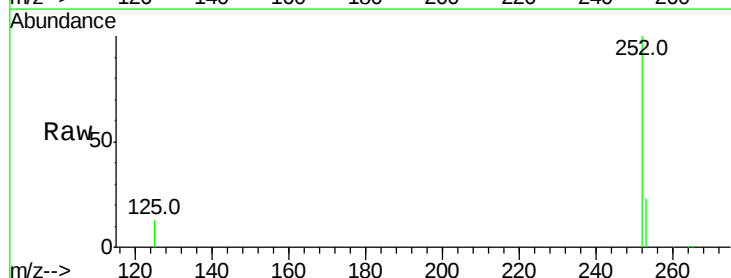
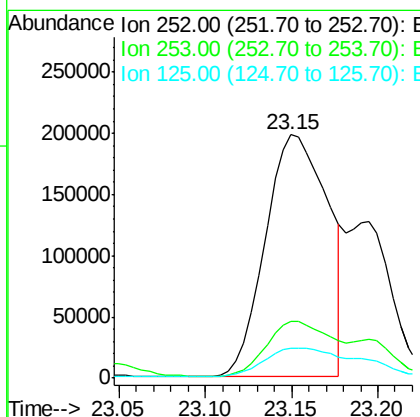
RT: 23.15 min Scan# 3589

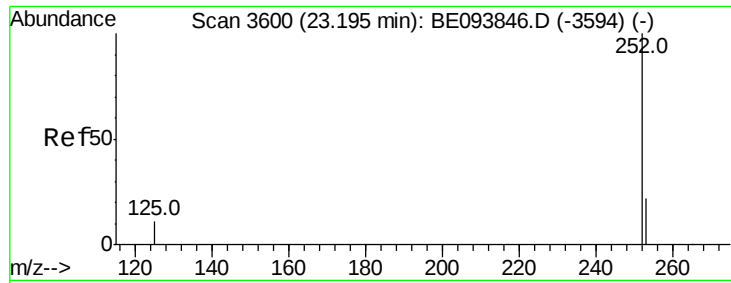
Delta R.T. 0.00 min

Lab File: BE093852.D

Acq: 16 Aug 2017 22:32

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 252  | Resp: | 497391 |
| Ion Ratio |      | Lower | Upper  |
| 252       | 100  |       |        |
| 253       | 23.1 | 0.0   | 64.2   |
| 125       | 12.5 | 0.0   | 35.0   |





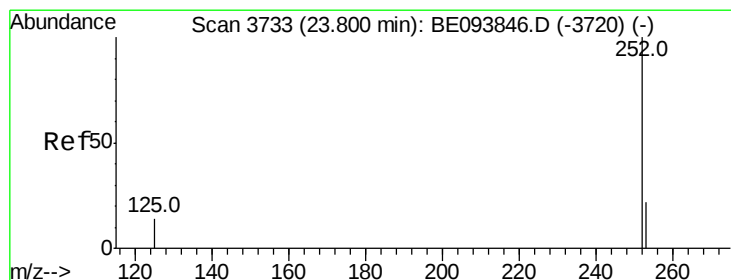
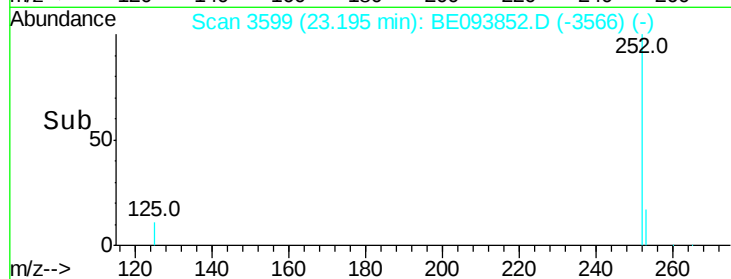
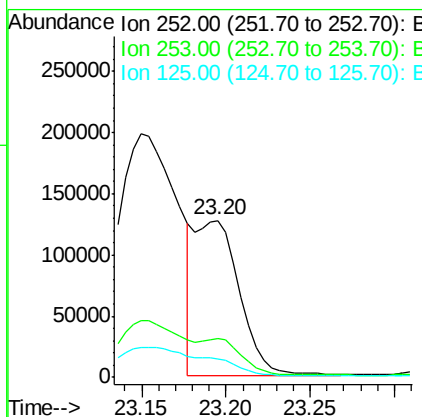
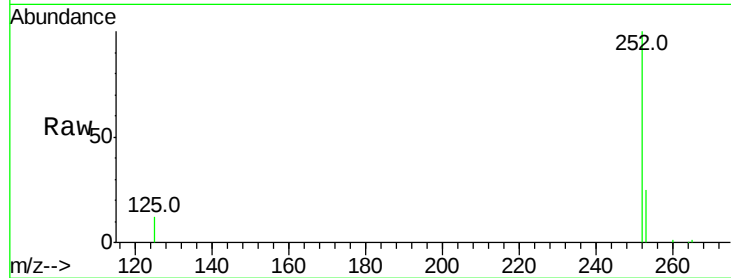
#22  
Benzo(k)fluoranthene  
Concen: 5.382 ng/ul m  
RT: 23.20 min Scan# 3599  
Delta R.T. 0.00 min  
Lab File: BE093852.D  
Acq: 16 Aug 2017 22:32

Instrument :  
BNA\_E  
ClientSampled :  
C0AG5

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 236151 |       |       |
| 253     | 25.0  |        | 24.5  | 36.7  |
| 125     | 12.1  |        | 13.7  | 20.5# |

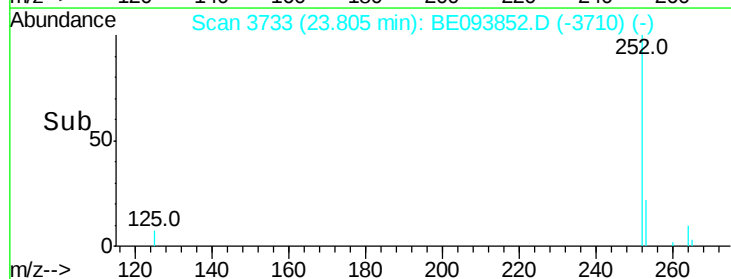
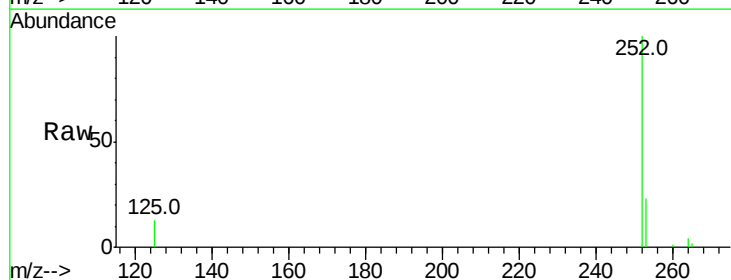
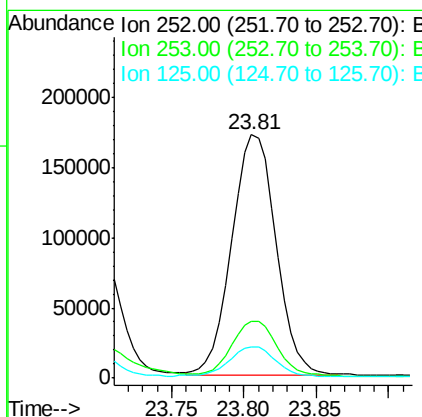
Manual Integrations  
APPROVED

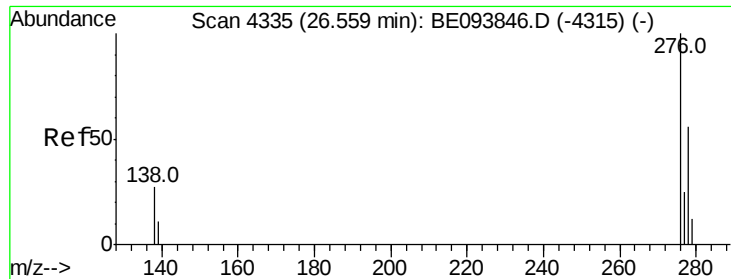
Sohil  
8/17/2017 5:59:47 PM



#23  
Benzo(a)pyrene  
Concen: 8.651 ng/ul m  
RT: 23.81 min Scan# 3733  
Delta R.T. 0.00 min  
Lab File: BE093852.D  
Acq: 16 Aug 2017 22:32

| Tgt Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 252     | 100   | 366109 |       |       |
| 253     | 23.5  |        | 28.5  | 42.7# |
| 125     | 13.0  |        | 18.1  | 27.1# |





#24

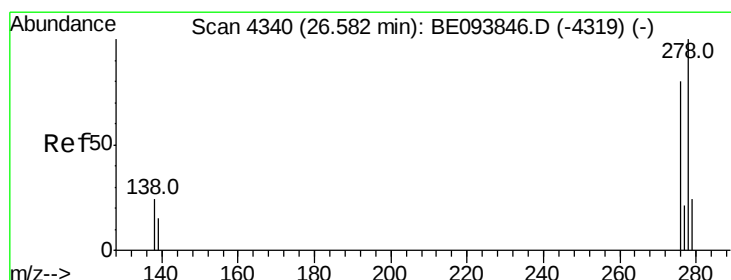
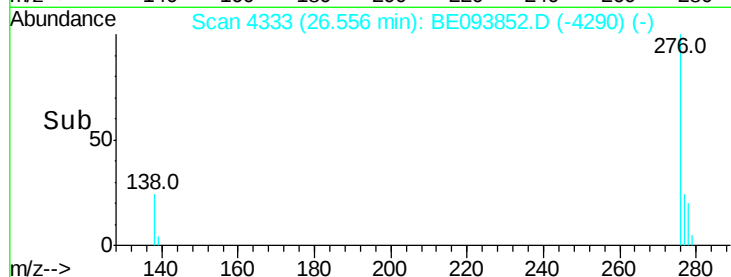
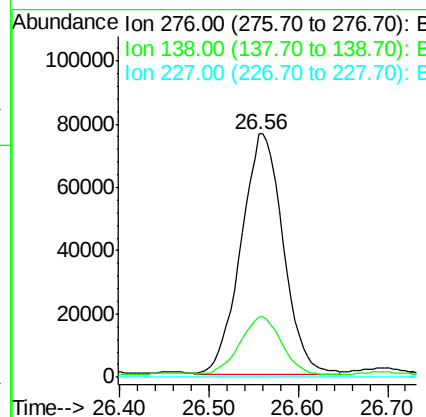
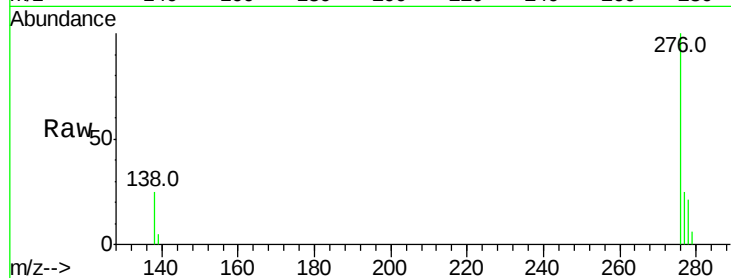
Indeno(1,2,3-cd)pyrene  
Concen: 5.304 ng/ul m  
RT: 26.56 min Scan# 4333  
Delta R.T. -0.00 min  
Lab File: BE093852.D  
Acq: 16 Aug 2017 22:32

Instrument :  
BNA\_E  
ClientSampleId :  
C0AG5

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 276     | 100   | 247834 |       |       |
| 138     | 0.6   | 28.0   | 42.0# |       |
| 227     | 0.0   | 8.0    | 12.0# |       |

Manual Integrations  
APPROVED

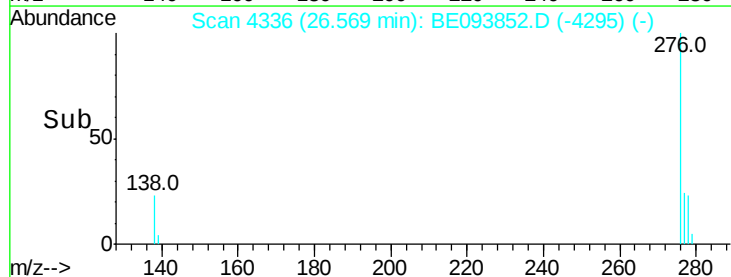
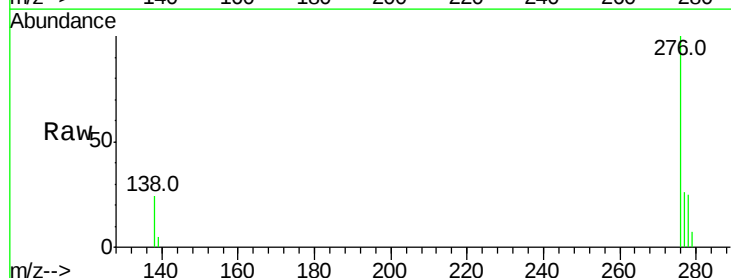
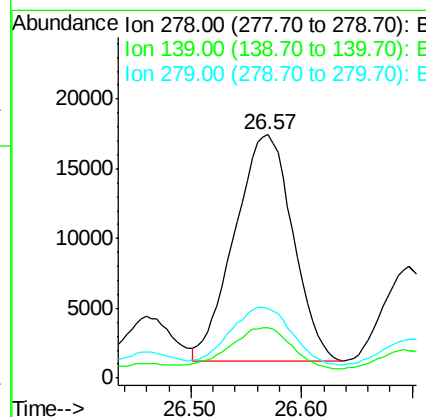
Sohil  
8/17/2017 5:59:47 PM

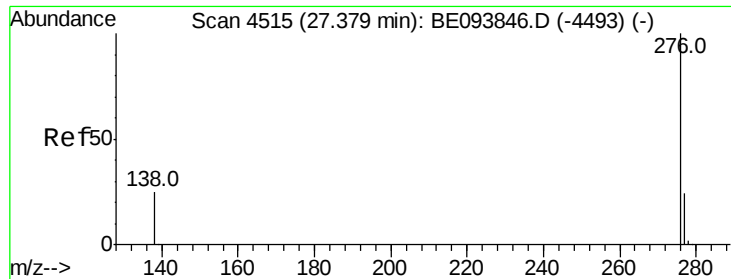


#25

Dibenzo(a,h)anthracene  
Concen: 1.530 ng/ul m  
RT: 26.57 min Scan# 4336  
Delta R.T. -0.01 min  
Lab File: BE093852.D  
Acq: 16 Aug 2017 22:32

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 278     | 100   | 59715 |       |       |
| 139     | 20.9  | 17.4  | 26.0  |       |
| 279     | 28.6  | 25.9  | 38.9  |       |





#26  
 Benzo(a,h,i)perylene  
 Concen: 5.150 ng/ul m  
 RT: 27.38 min Scan# 4513  
 Delta R.T. -0.00 min  
 Lab File: BE093852.D  
 Acq: 16 Aug 2017 22:32

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AG5

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 25.1  | 21.8       | 32.8       |
| 277     | 24.3  | 20.5       | 30.7       |

Manual Integrations  
 APPROVED

Sohil  
 8/17/2017 5:59:47 PM

