

Data Path : Z:\HPCHEM1\BNA E\DATA\BE081617\  
 Data File : BE093844.D  
 Acq On : 16 Aug 2017 17:34  
 Operator : SJ/JU  
 Sample : I4672-04DL 5X  
 Misc :  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AG6DL

Manual Integrations  
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Sohil  
 8/17/2017 5:59:35 PM

Quant Time: Aug 17 02:45:01 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 00:58:19 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.92  | 152  | 2764     | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.70 | 136  | 15144    | 0.40  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.52 | 164  | 8763     | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.26 | 188  | 19300    | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.41 | 240  | 21783    | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.91 | 264  | 20908    | 0.40  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.28 | 152  | 713      | 0.03  | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.27 | 212  | 1821     | 0.03  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.75 | 128  | 3031     | 0.082 | ng/ul# | 96       |
| 5) 2-Methylnaphthalene      | 12.36 | 142  | 2572     | 0.096 | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.24 | 152  | 8918     | 0.243 | ng/ul  | 97       |
| 8) Acenaphthene             | 14.58 | 153  | 1279     | 0.044 | ng/ul  | 96       |
| 9) Fluorene                 | 15.57 | 166  | 10781    | 0.296 | ng/ul  | 91       |
| 12) Phenanthrene            | 17.29 | 178  | 113697   | 2.163 | ng/ul# | 90       |
| 13) Anthracene              | 17.38 | 178  | 28452    | 0.556 | ng/ul# | 91       |
| 15) Fluoranthene            | 19.30 | 202  | 150297   | 2.287 | ng/ul  | 84       |
| 17) Pyrene                  | 19.66 | 202  | 117092   | 1.842 | ng/ul# | 81       |
| 18) Benzo(a)anthracene      | 21.39 | 228  | 64542    | 1.022 | ng/ul# | 84       |
| 19) Chrysene                | 21.45 | 228  | 50261    | 0.830 | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 23.15 | 252  | 60471m   | 0.935 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.19 | 252  | 27129m   | 0.425 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.80 | 252  | 39196    | 0.637 | ng/ul# | 82       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.55 | 276  | 23491    | 0.346 | ng/ul# | 79       |
| 25) Dibenzo(a,h)anthracene  | 26.56 | 278  | 5299     | 0.093 | ng/ul# | 93       |
| 26) Benzo(a,h,i)perylene    | 27.37 | 276  | 16985    | 0.297 | ng/ul  | 99       |

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

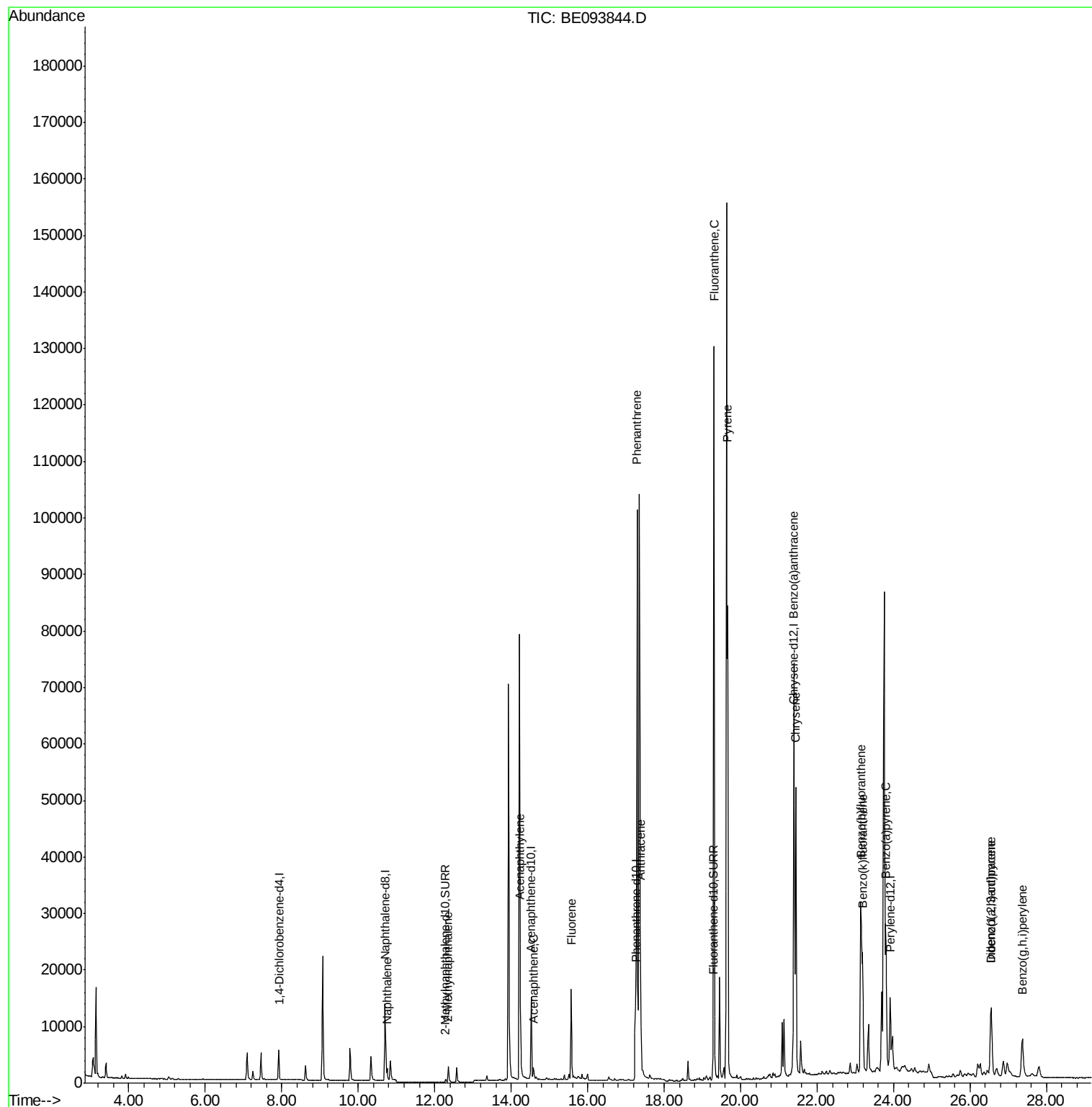
Data Path : Z:\HPCHEM1\BNA E\DATA\BE081617\  
Data File : BE093844.D  
Acq On : 16 Aug 2017 17:34  
Operator : SJ/JU  
Sample : I4672-04DL 5X  
Misc :  
ALS Vial : 13 Sample Multiplier: 1

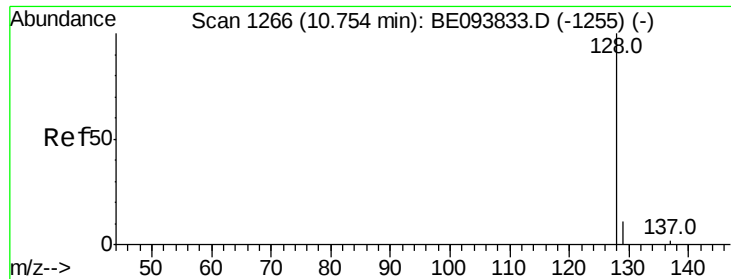
Instrument :  
BNA\_E  
ClientSampleId :  
C0AG6DL

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Quant Time: Aug 17 02:45:01 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 00:58:19 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.082 ng/ul

RT: 10.75 min Scan# 1266

Delta R.T. -0.00 min

Lab File: BE093844.D

Acq: 16 Aug 2017 17:34

Instrument :

BNA\_E

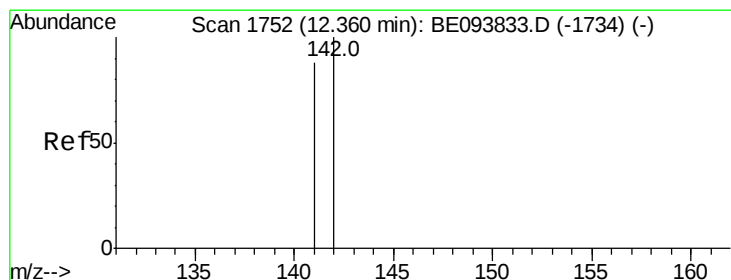
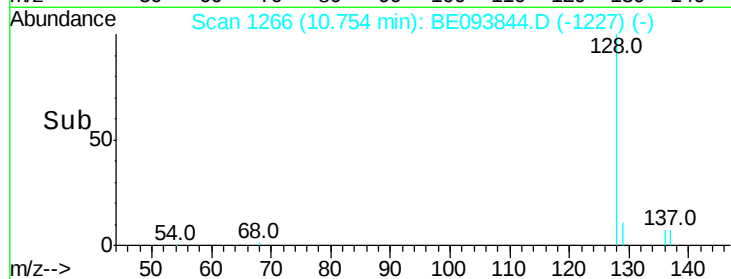
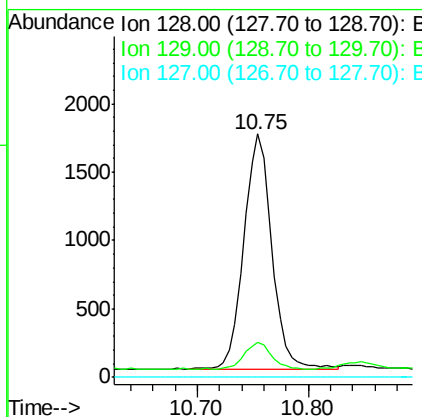
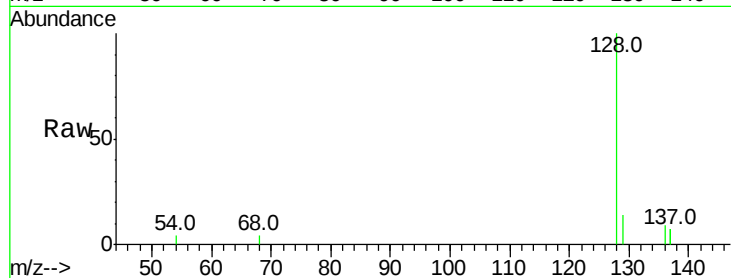
ClientSampleId :

C0AG6DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 128   | Resp: | 3031 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 129       | 14.4  | 11.3  | 16.9 |
| 127       | 0.0   | 4.0   | 6.0# |

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#5

2-Methylnaphthalene

Concen: 0.096 ng/ul

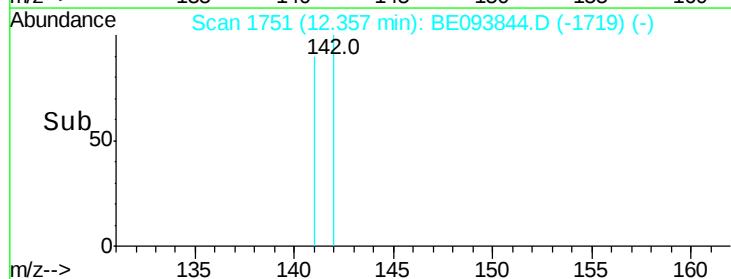
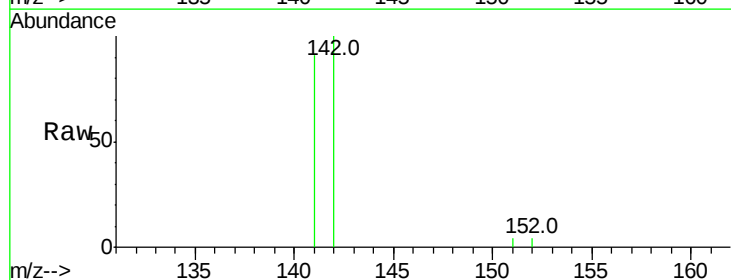
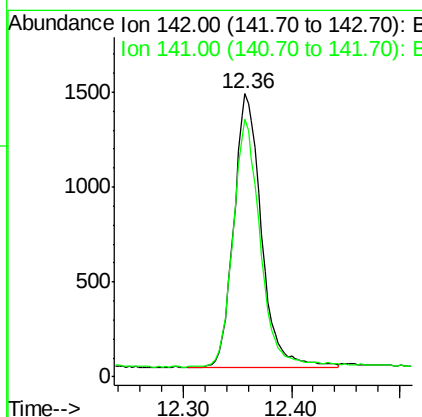
RT: 12.36 min Scan# 1751

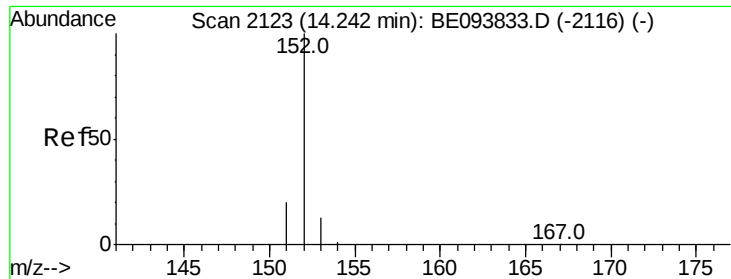
Delta R.T. -0.00 min

Lab File: BE093844.D

Acq: 16 Aug 2017 17:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 2572  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 88.5  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 0.243 ng/ul

RT: 14.24 min Scan# 2123

Delta R.T. -0.00 min

Lab File: BE093844.D

Acq: 16 Aug 2017 17:34

Instrument :

BNA\_E

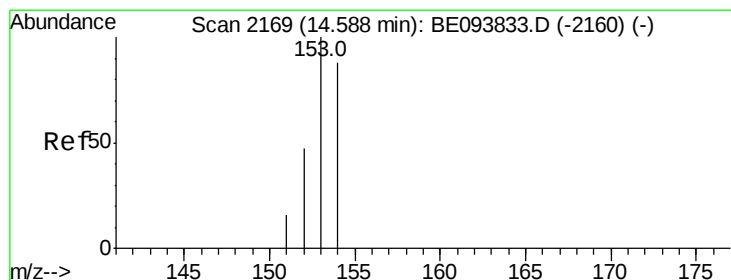
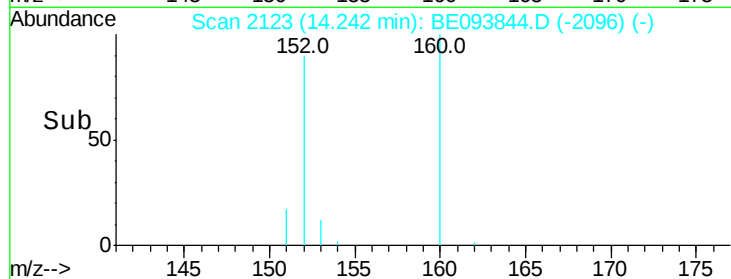
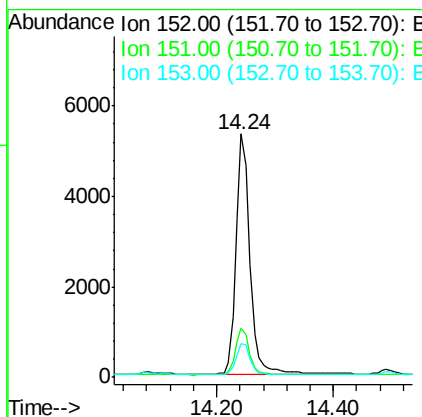
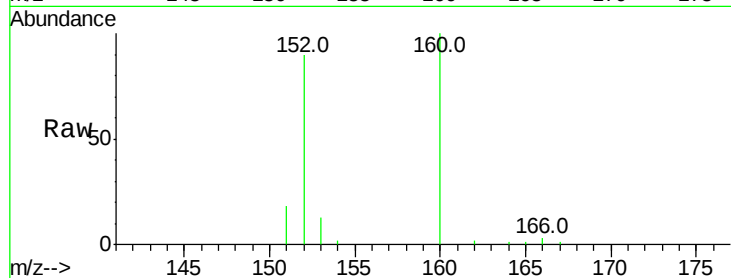
ClientSampleId :

C0AG6DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 152   | Resp: | 8918 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.3  | 17.1  | 25.7 |
| 153       | 14.0  | 12.8  | 19.2 |

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#8

Acenaphthene

Concen: 0.044 ng/ul

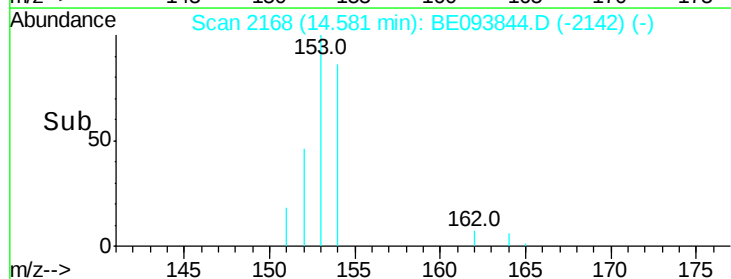
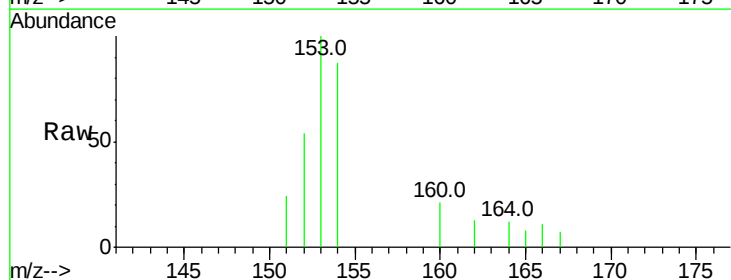
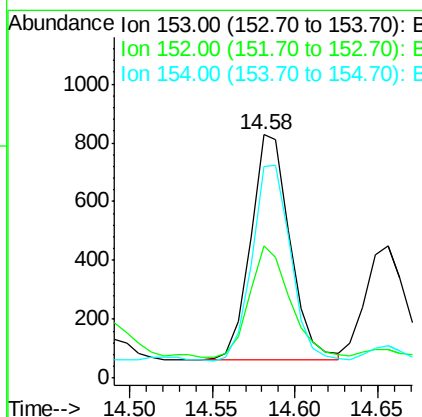
RT: 14.58 min Scan# 2168

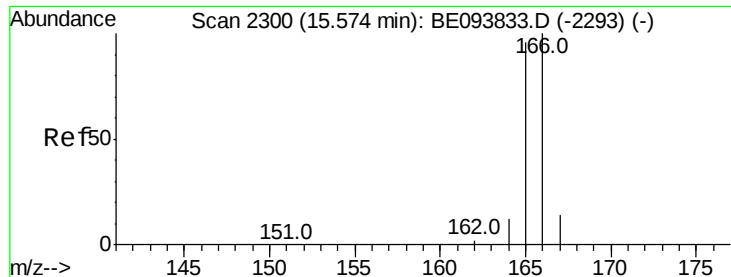
Delta R.T. -0.01 min

Lab File: BE093844.D

Acq: 16 Aug 2017 17:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 1279  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 54.1  | 40.3  | 60.5  |
| 154       | 86.7  | 71.4  | 107.2 |





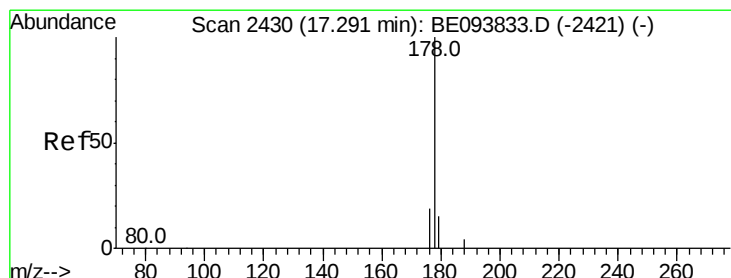
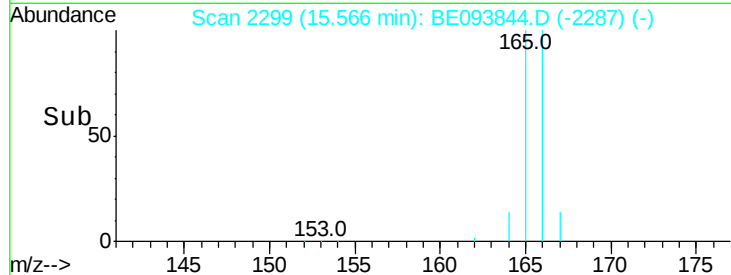
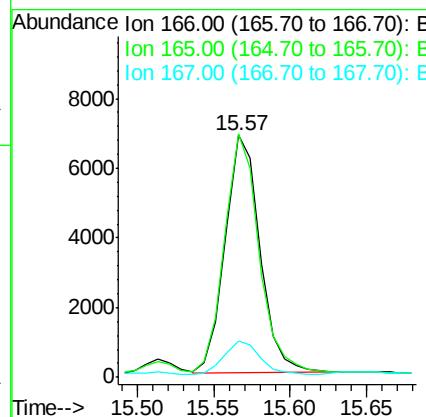
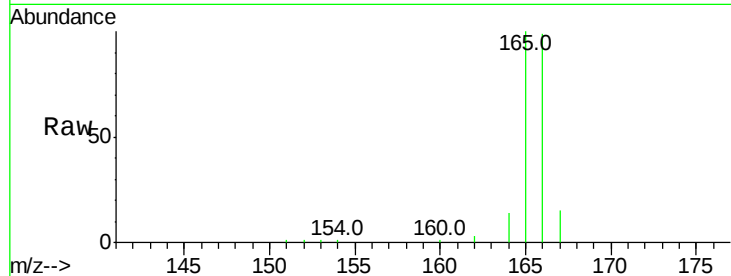
#9  
**Fluorene**  
 Concen: 0.296 ng/ul  
 RT: 15.57 min Scan# 2299  
 Delta R.T. -0.01 min  
 Lab File: BE093844.D  
 Acq: 16 Aug 2017 17:34

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AG6DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 166     | 100   |       |       |
| 165     | 100.6 | 73.4  | 110.2 |
| 167     | 14.9  | 14.6  | 22.0  |

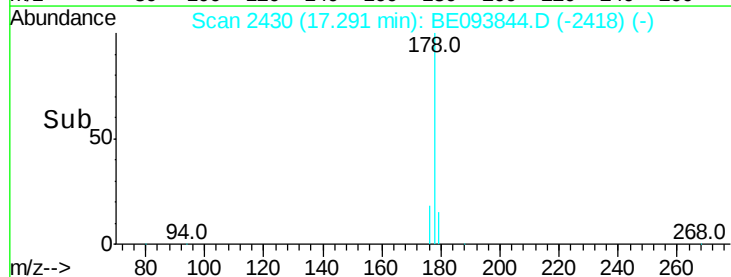
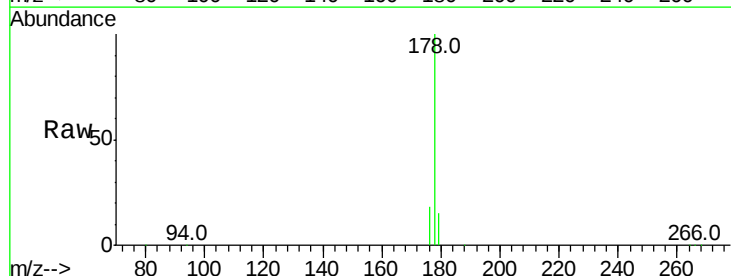
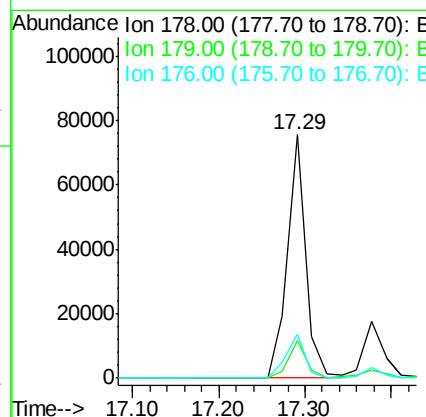
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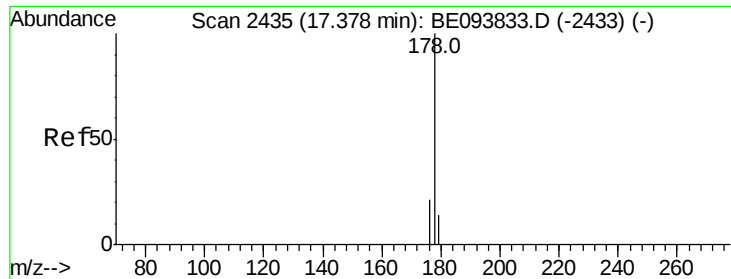
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#12  
**Phenanthrene**  
 Concen: 2.163 ng/ul  
 RT: 17.29 min Scan# 2430  
 Delta R.T. -0.00 min  
 Lab File: BE093844.D  
 Acq: 16 Aug 2017 17:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.3  | 18.4  | 27.6# |
| 176     | 18.2  | 13.6  | 20.4  |





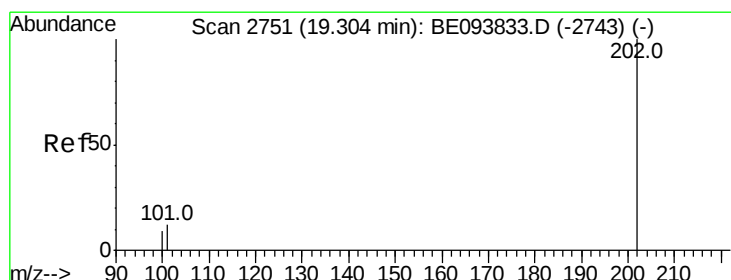
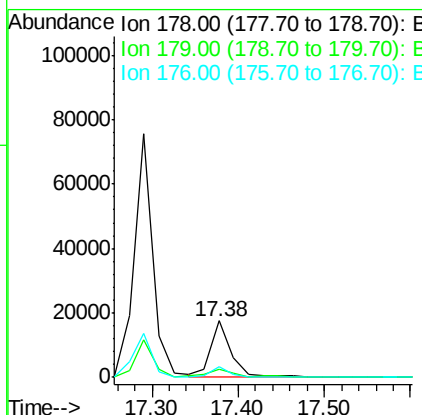
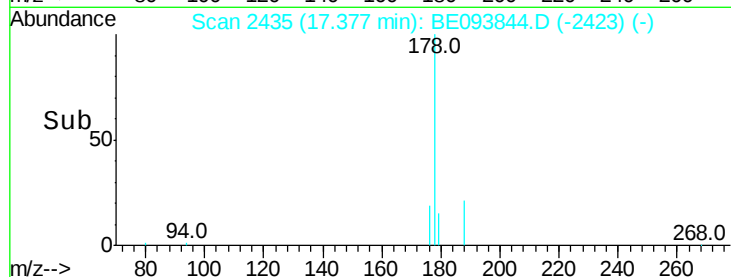
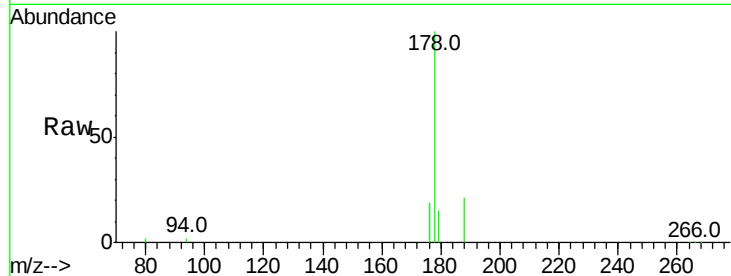
#13  
 Anthracene  
 Concen: 0.556 ng/ul  
 RT: 17.38 min Scan# 2435  
 Delta R.T. -0.00 min  
 Lab File: BE093844.D  
 Acq: 16 Aug 2017 17:34

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AG6DL

Tot Ion:178 Resp: 28452  
 Ion Ratio Lower Upper  
 178 100  
 179 15.1 18.1 27.1#  
 176 19.0 14.7 22.1

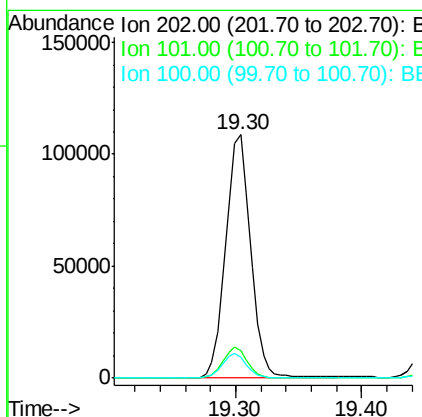
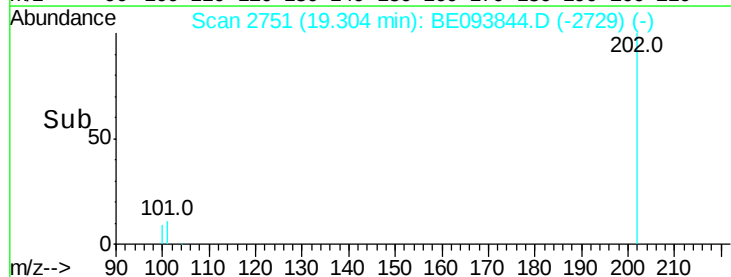
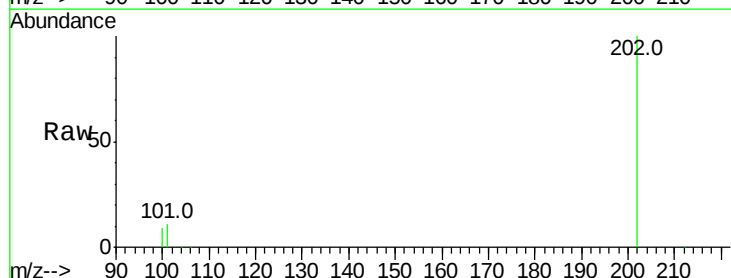
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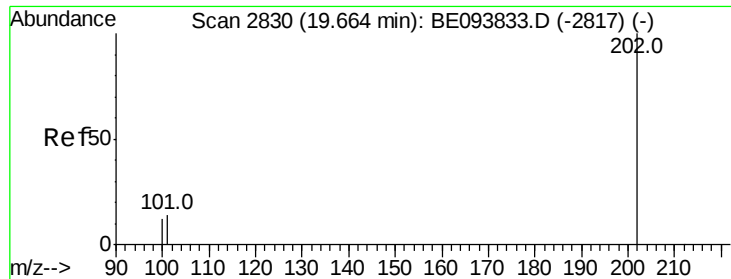
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#15  
 Fluoranthene  
 Concen: 2.287 ng/ul  
 RT: 19.30 min Scan# 2751  
 Delta R.T. -0.00 min  
 Lab File: BE093844.D  
 Acq: 16 Aug 2017 17:34

Tgt Ion:202 Resp: 150297  
 Ion Ratio Lower Upper  
 202 100  
 101 11.0 0.0 30.3  
 100 8.6 0.0 39.5





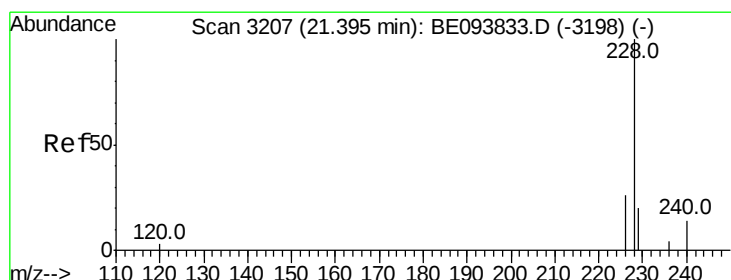
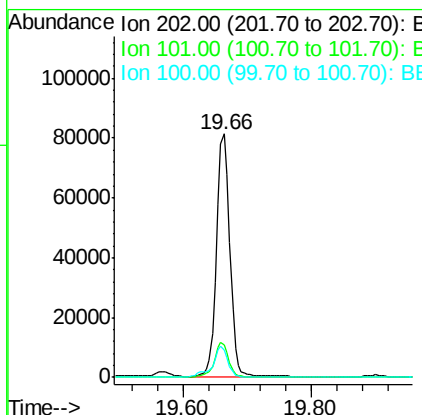
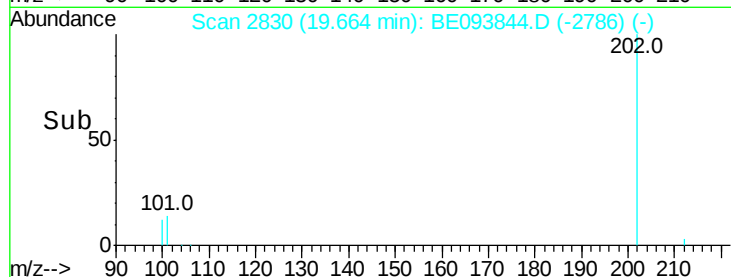
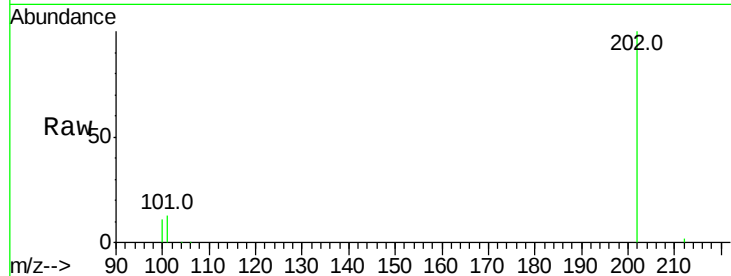
#17  
Pvrene  
Concen: 1.842 ng/ul  
RT: 19.66 min Scan# 2830  
Delta R.T. -0.00 min  
Lab File: BE093844.D  
Acq: 16 Aug 2017 17:34

Instrument :  
BNA\_E  
ClientSampleId :  
C0AG6DL

| Tot Ion | Ratio | Resp   | Lower | Upper |
|---------|-------|--------|-------|-------|
| 202     | 100   | 117092 |       |       |
| 101     | 13.3  | 18.2   | 27.4# |       |
| 100     | 11.3  | 15.6   | 23.4# |       |

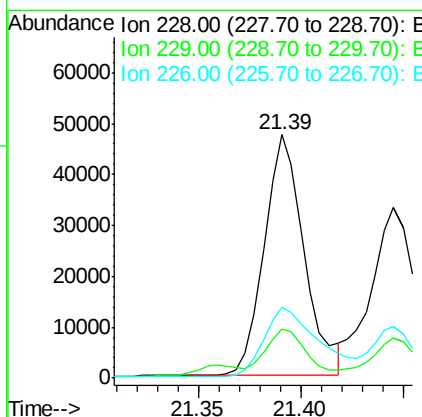
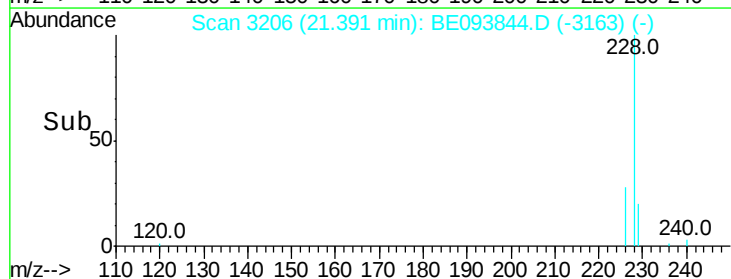
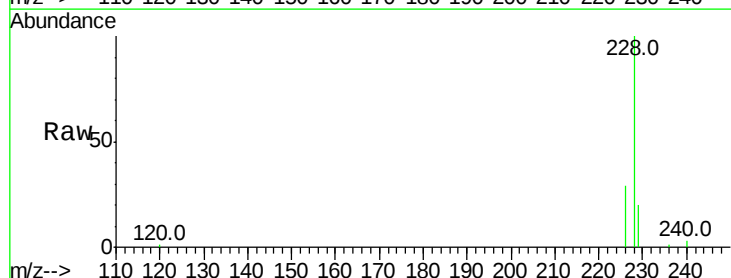
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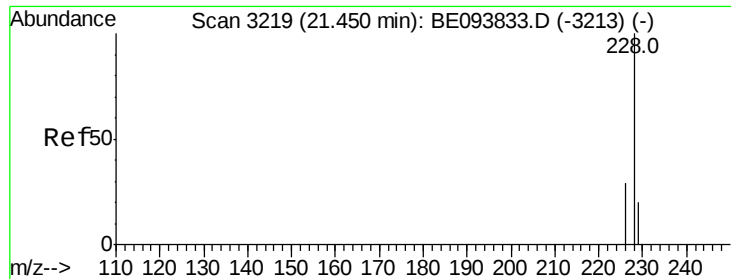
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#18  
Benzo(a)anthracene  
Concen: 1.022 ng/ul  
RT: 21.39 min Scan# 3206  
Delta R.T. -0.00 min  
Lab File: BE093844.D  
Acq: 16 Aug 2017 17:34

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 228     | 100   | 64542 |       |       |
| 229     | 20.4  | 22.8  | 34.2# |       |
| 226     | 28.9  | 17.0  | 25.6# |       |





#19

Chrysene

Concen: 0.830 ng/ul

RT: 21.45 min Scan# 3218

Delta R.T. -0.00 min

Lab File: BE093844.D

Acq: 16 Aug 2017 17:34

Instrument :

BNA\_E

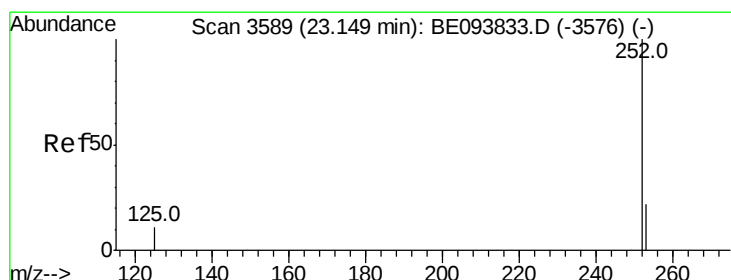
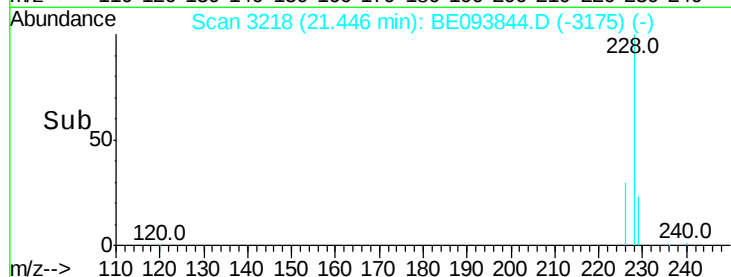
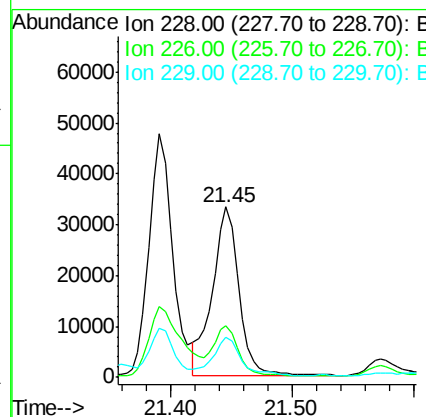
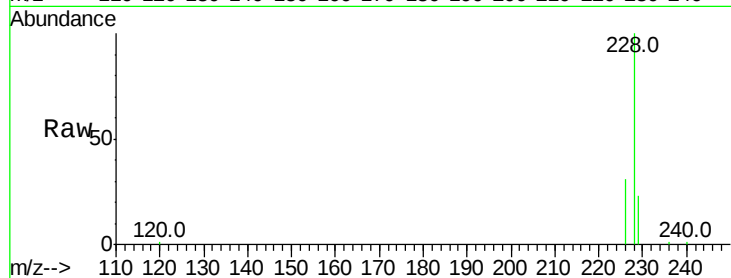
ClientSampleId :

C0AG6DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 50261 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.6  | 23.4  | 35.0  |
| 229       | 23.2  | 17.7  | 26.5  |

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#21

Benzo(b)fluoranthene

Concen: 0.935 ng/ul m

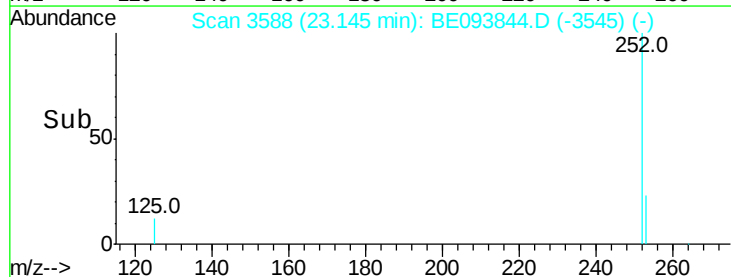
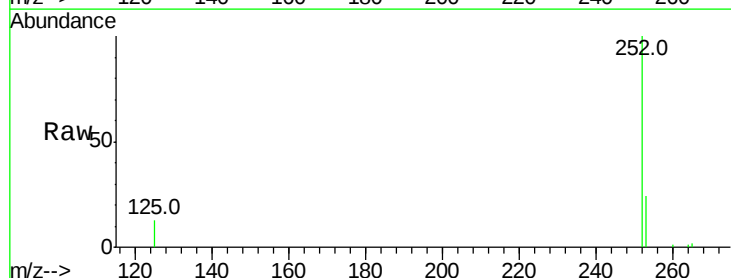
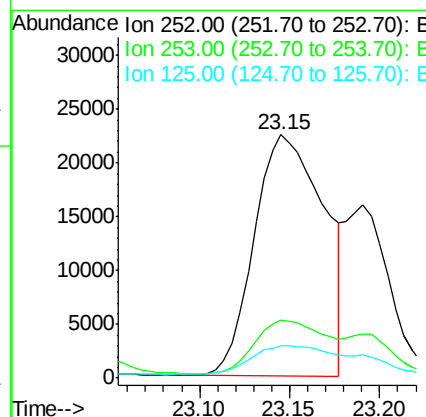
RT: 23.15 min Scan# 3588

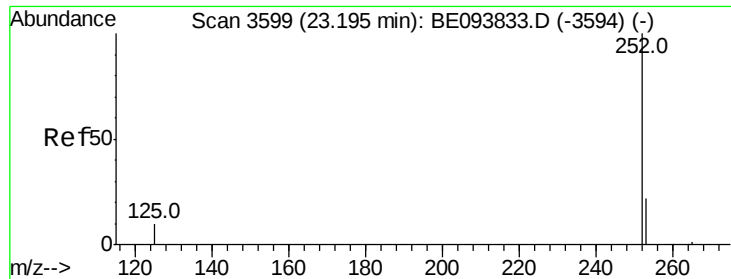
Delta R.T. -0.00 min

Lab File: BE093844.D

Acq: 16 Aug 2017 17:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 60471 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.9  | 0.0   | 64.2  |
| 125       | 13.3  | 0.0   | 35.0  |





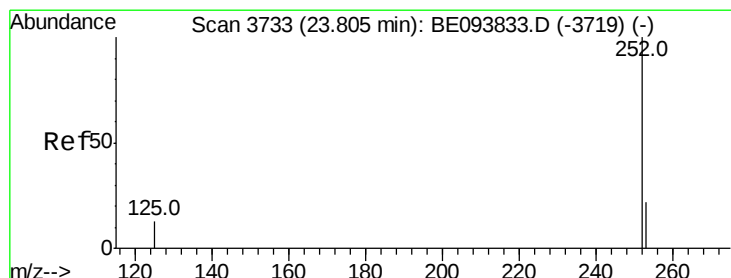
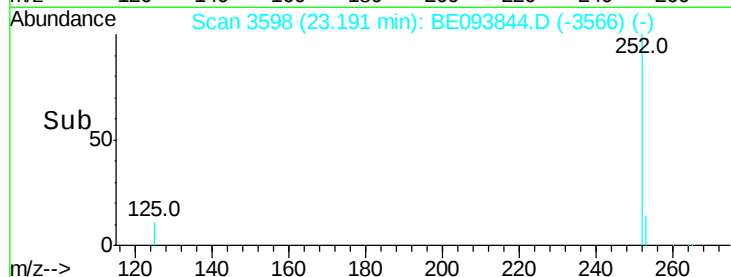
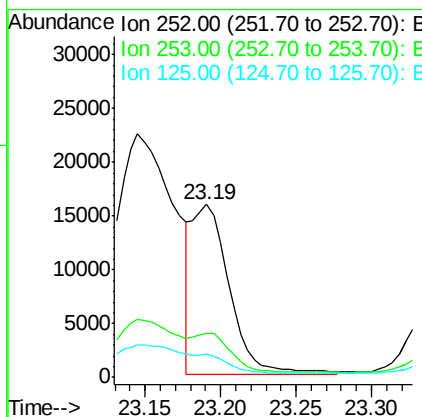
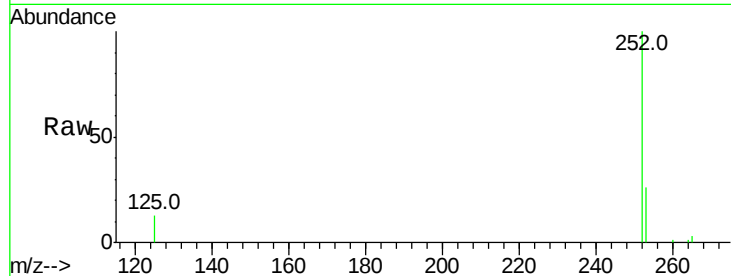
#22  
Benzo(k)fluoranthene  
Concen: 0.425 ng/ul m  
RT: 23.19 min Scan# 3598  
Delta R.T. -0.00 min  
Lab File: BE093844.D  
Acq: 16 Aug 2017 17:34

Instrument :  
BNA\_E  
ClientSampleId :  
C0AG6DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.5  | 24.5  | 36.7  |
| 125     | 13.3  | 13.7  | 20.5# |

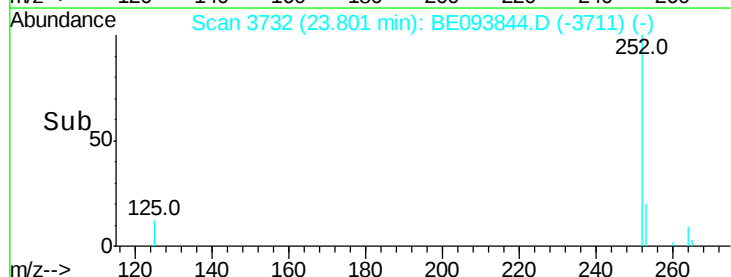
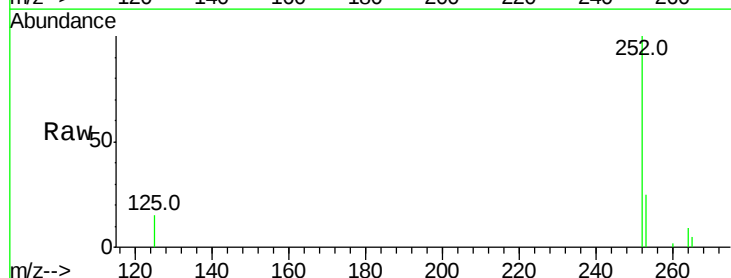
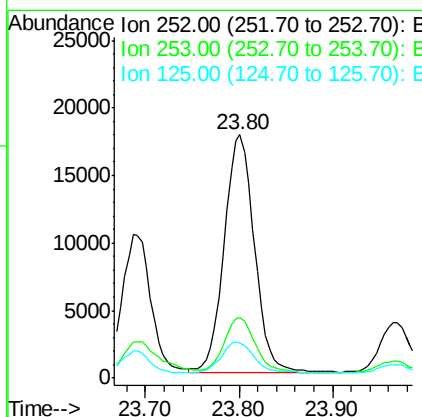
Manual Integrations  
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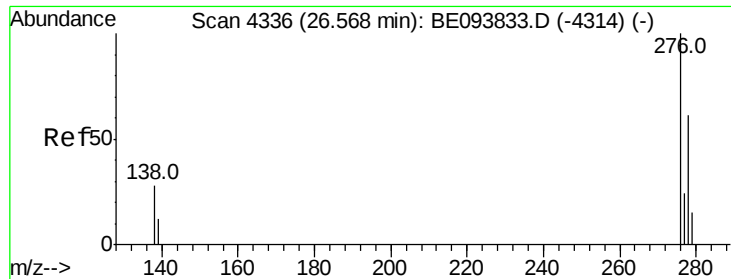
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#23  
Benzo(a)pyrene  
Concen: 0.637 ng/ul  
RT: 23.80 min Scan# 3732  
Delta R.T. -0.00 min  
Lab File: BE093844.D  
Acq: 16 Aug 2017 17:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 24.9  | 28.5  | 42.7# |
| 125     | 14.6  | 18.1  | 27.1# |





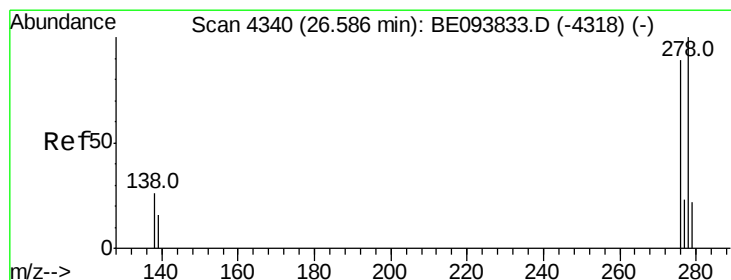
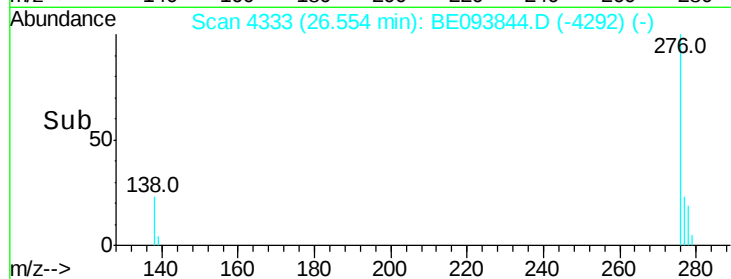
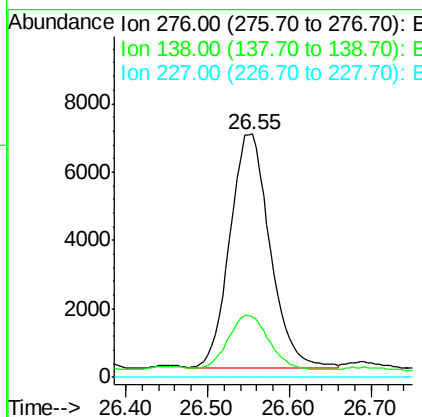
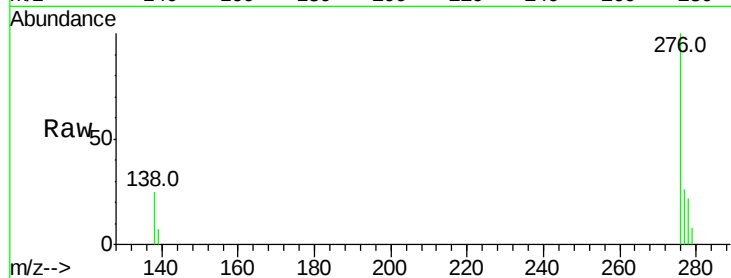
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.346 ng/ul  
 RT: 26.55 min Scan# 4333  
 Delta R.T. -0.01 min  
 Lab File: BE093844.D  
 Acq: 16 Aug 2017 17:34

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AG6DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.8  | 28.0  | 42.0# |
| 227     | 0.0   | 8.0   | 12.0# |

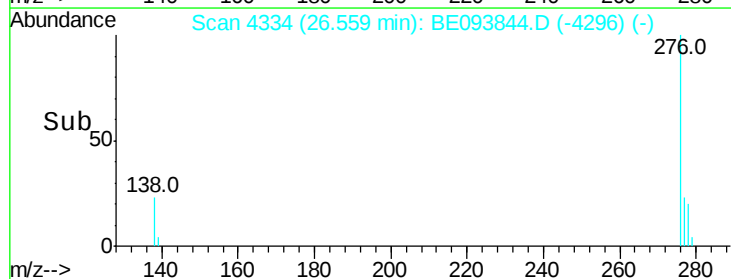
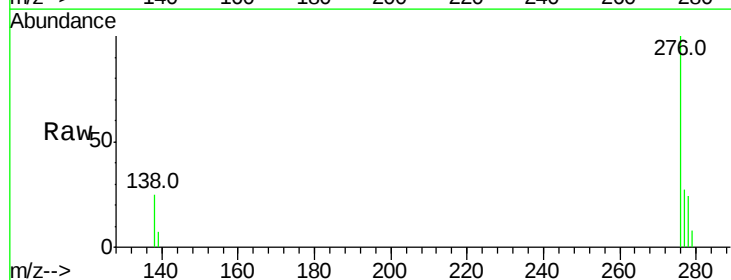
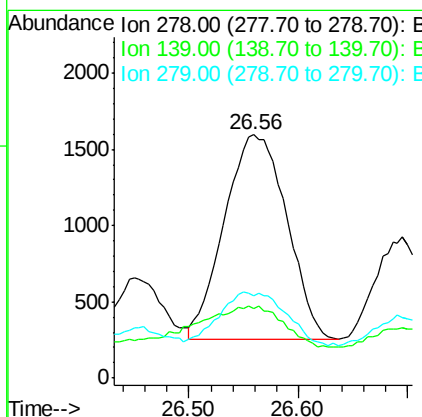
Manual Integrations  
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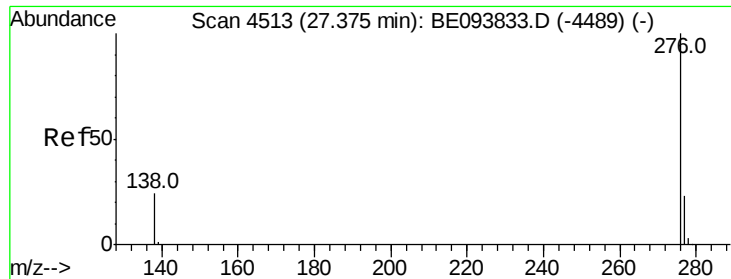
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.093 ng/ul  
 RT: 26.56 min Scan# 4334  
 Delta R.T. -0.03 min  
 Lab File: BE093844.D  
 Acq: 16 Aug 2017 17:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 28.5  | 17.4  | 26.0# |
| 279     | 34.0  | 25.9  | 38.9  |





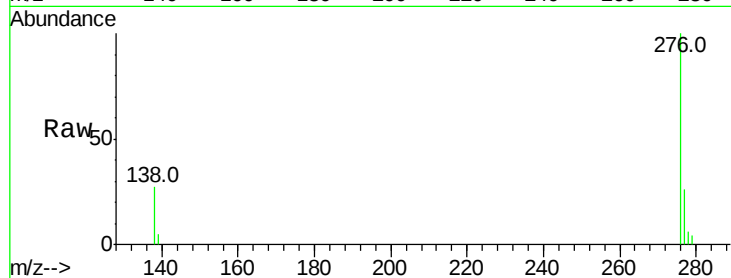
#26  
 Benzo(a,h,i)perylene  
 Concen: 0.297 ng/ul  
 RT: 27.37 min Scan# 4512  
 Delta R.T. -0.00 min  
 Lab File: BE093844.D  
 Acq: 16 Aug 2017 17:34

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AG6DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 27.1  | 21.8  | 32.8  |
| 277     | 26.3  | 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

