

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE062017\  
 Data File : BE093285.D  
 Acq On : 20 Jun 2017 17:20  
 Operator : SJ/JU  
 Sample : I3625-17  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5E17

Manual Integrations  
 APPROVED

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 6/21/2017 12:18:26 PM

Quant Time: Jun 21 03:10:04 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Jun 21 01:49:50 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.74  | 152  | 1862     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.52 | 136  | 9562     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.36 | 164  | 6579     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.10 | 188  | 14288    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.26 | 240  | 14425    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.66 | 264  | 11927m   | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152  | 4419     | 0.32   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.12 | 212  | 12157    | 0.31   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.56 | 128  | 1096685  | 46.225 | ng/ul# | 91       |
| 5) 2-Methylnaphthalene      | 12.18 | 142  | 232739   | 14.346 | ng/ul  | 99       |
| 7) Acenaphthylene           | 14.09 | 152  | 17514    | 0.620  | ng/ul  | 97       |
| 8) Acenaphthene             | 14.42 | 153  | 238805   | 10.485 | ng/ul  | 96       |
| 9) Fluorene                 | 15.42 | 166  | 255758   | 9.578  | ng/ul# | 93       |
| 12) Phenanthrene            | 17.14 | 178  | 1055927  | 26.859 | ng/ul# | 86       |
| 13) Anthracene              | 17.22 | 178  | 151982   | 4.440  | ng/ul# | 88       |
| 15) Fluoranthene            | 19.15 | 202  | 668340   | 13.863 | ng/ul  | 83       |
| 17) Pyrene                  | 19.51 | 202  | 475801   | 11.185 | ng/ul# | 86       |
| 18) Benzo(a)anthracene      | 21.24 | 228  | 126102   | 3.277  | ng/ul# | 86       |
| 19) Chrysene                | 21.29 | 228  | 91938    | 2.303  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 22.93 | 252  | 54434    | 1.504  | ng/ul  | 87       |
| 22) Benzo(k)fluoranthene    | 22.97 | 252  | 22593m   | 0.588  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.56 | 252  | 36271m   | 1.060  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 26.18 | 276  | 9860m    | 0.249  | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 26.20 | 278  | 2877m    | 0.086  | ng/ul  |          |
| 26) Benzo(g,h,i)perylene    | 26.96 | 276  | 7340     | 0.216  | ng/ul# | 93       |

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

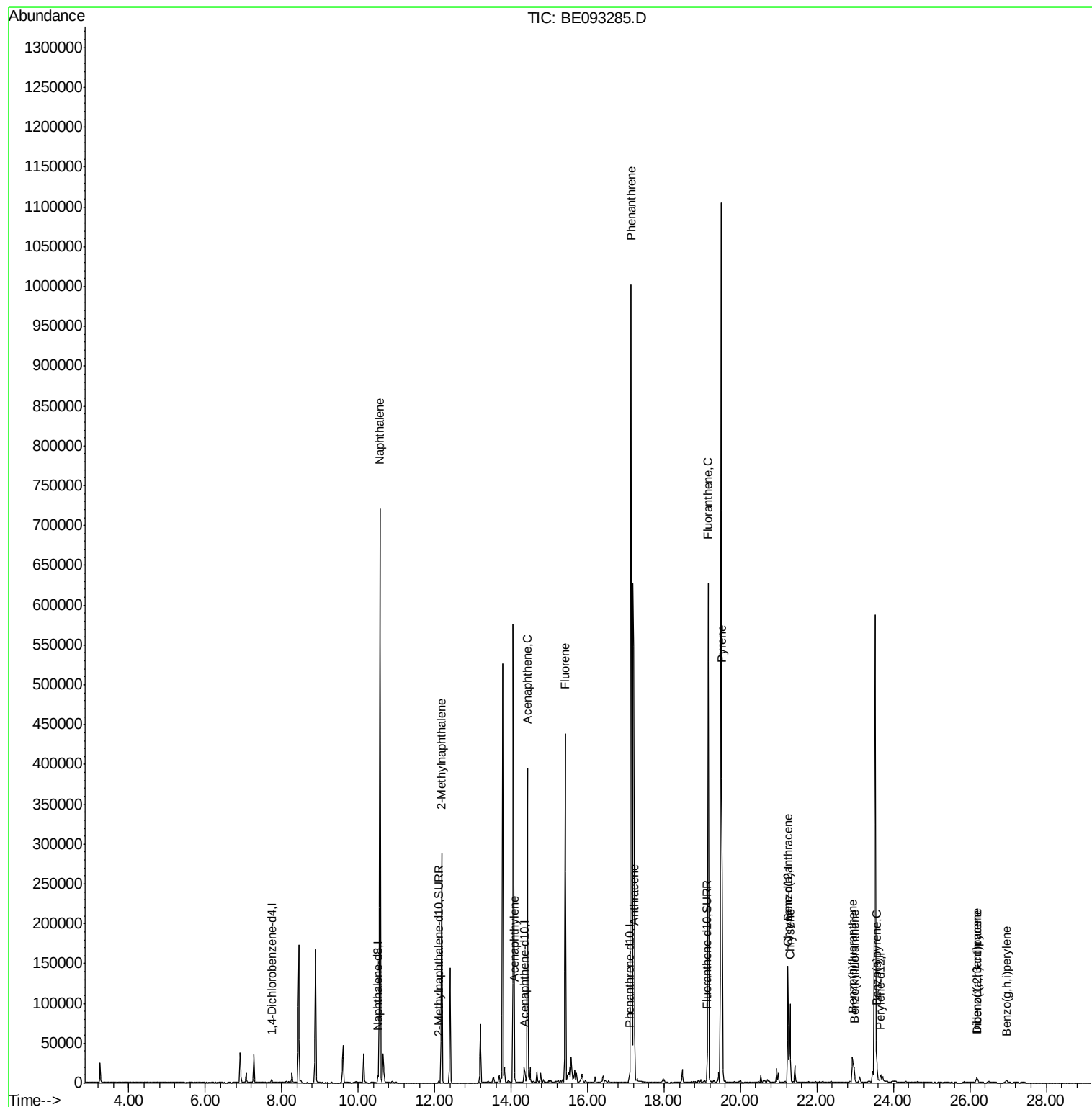
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE062017\  
Data File : BE093285.D  
Acq On : 20 Jun 2017 17:20  
Operator : SJ/JU  
Sample : I3625-17  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

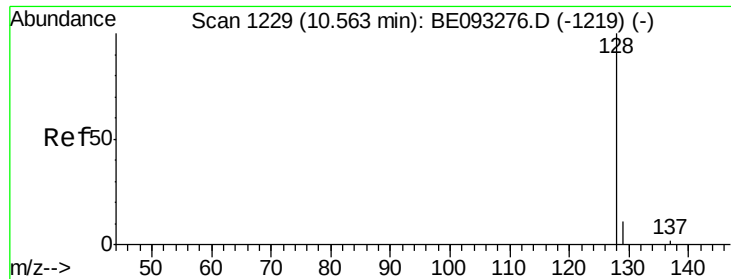
Instrument :  
BNA\_E  
ClientSampled :  
F5E17

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Quant Time: Jun 21 03:10:04 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE060717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Jun 21 01:49:50 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 46.225 ng/ul

RT: 10.56 min Scan# 1229

Delta R.T. 0.00 min

Lab File: BE093285.D

Acq: 20 Jun 2017 17:20

Instrument :

BNA\_E

ClientSampleId :

F5E17

Tgt Ion:128 Resp: 1096685

Ion Ratio Lower Upper

128 100

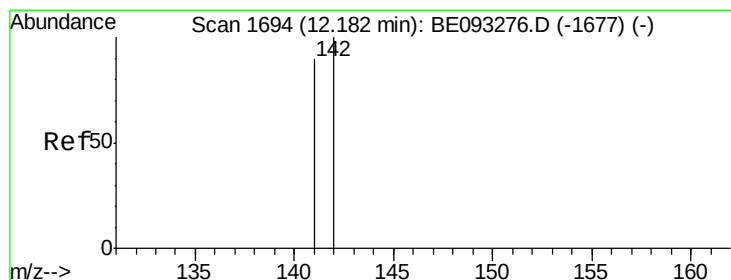
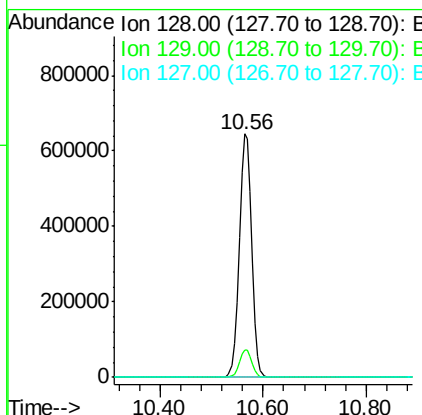
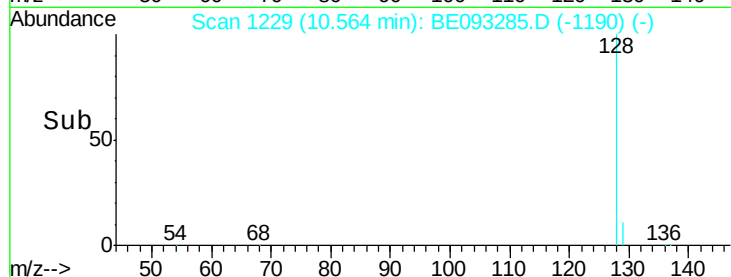
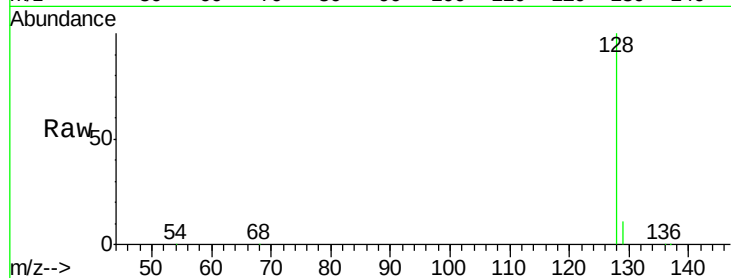
129 11.2 11.3 16.9#

127 0.0 4.0 6.0#

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#5

2-Methylnaphthalene

Concen: 14.346 ng/ul

RT: 12.18 min Scan# 1694

Delta R.T. -0.00 min

Lab File: BE093285.D

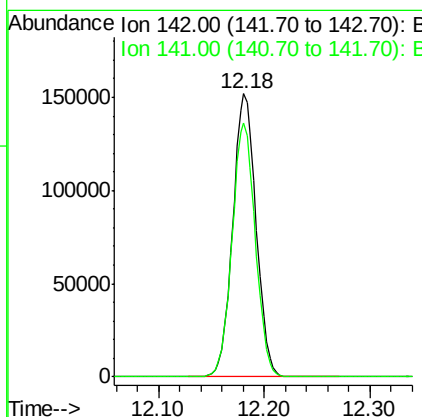
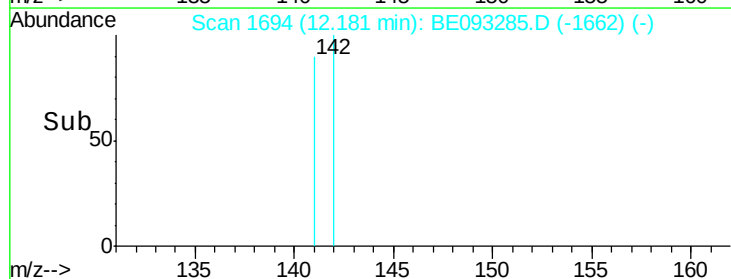
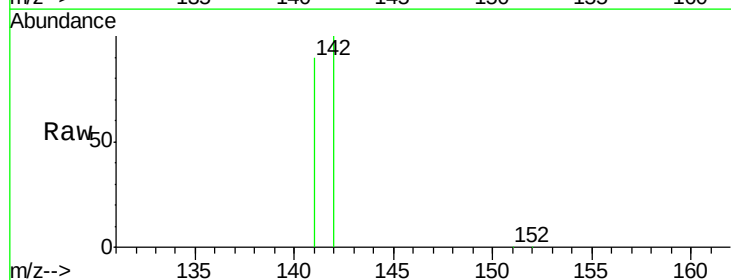
Acq: 20 Jun 2017 17:20

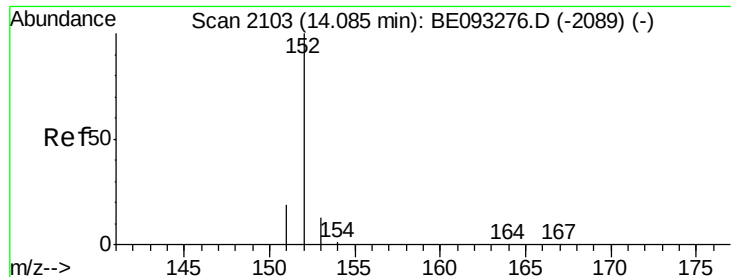
Tgt Ion:142 Resp: 232739

Ion Ratio Lower Upper

142 100

141 89.4 72.6 108.8





#7

Acenaphthylene

Concen: 0.620 ng/ul

RT: 14.09 min Scan# 2103

Delta R.T. -0.00 min

Lab File: BE093285.D

Acq: 20 Jun 2017 17:20

Instrument :

BNA\_E

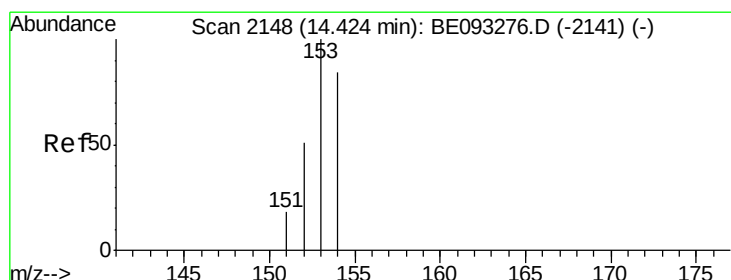
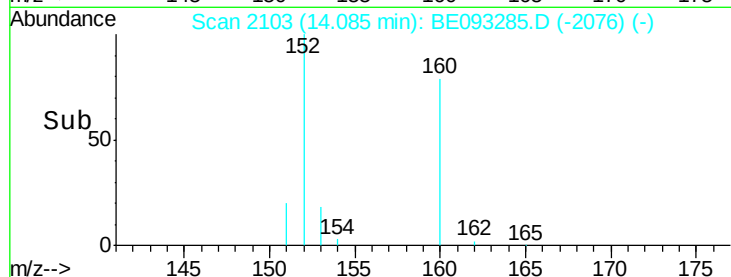
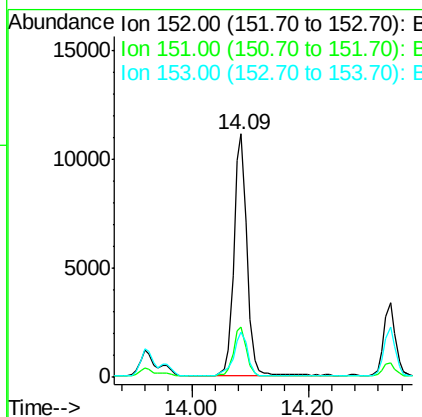
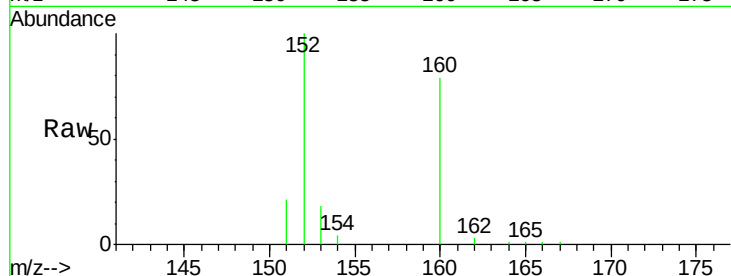
ClientSampleId :

F5E17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 17514 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.8  | 17.1  | 25.7  |
| 153       | 18.4  | 12.8  | 19.2  |

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#8

Acenaphthene

Concen: 10.485 ng/ul

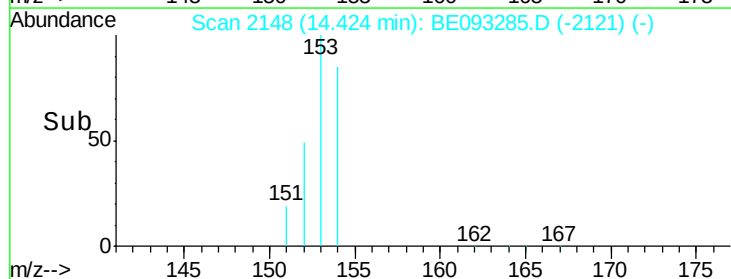
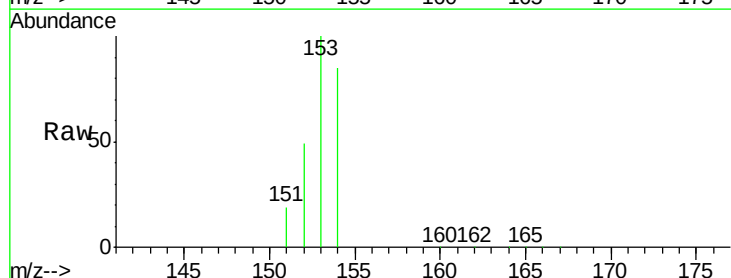
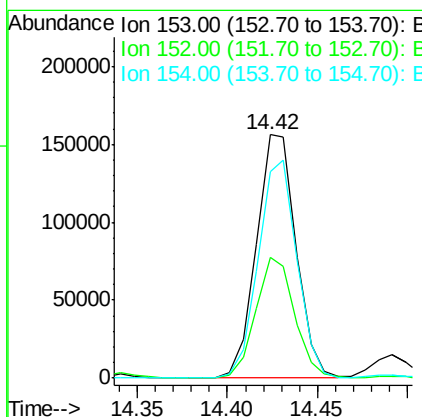
RT: 14.42 min Scan# 2148

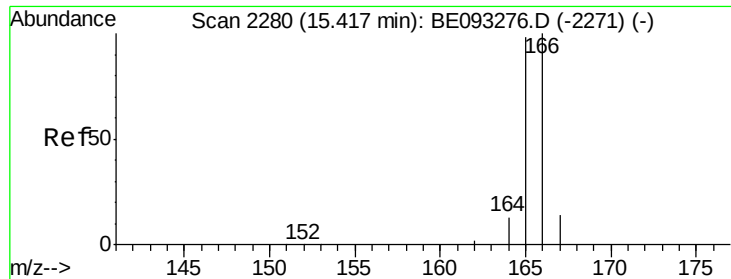
Delta R.T. -0.00 min

Lab File: BE093285.D

Acq: 20 Jun 2017 17:20

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 153   | Resp: | 238805 |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 49.3  | 40.3  | 60.5   |
| 154       | 84.7  | 71.4  | 107.2  |





#9

Fluorene

Concen: 9.578 ng/ul

RT: 15.42 min Scan# 2280

Delta R.T. -0.00 min

Lab File: BE093285.D

Acq: 20 Jun 2017 17:20

Instrument :

BNA\_E

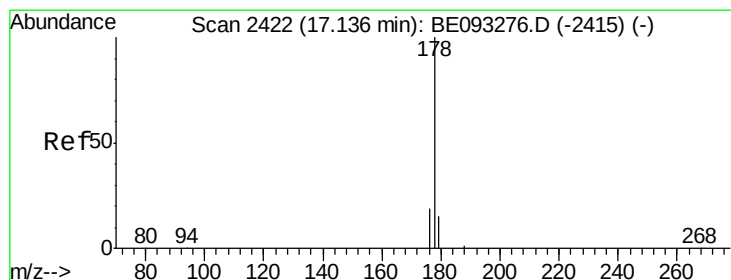
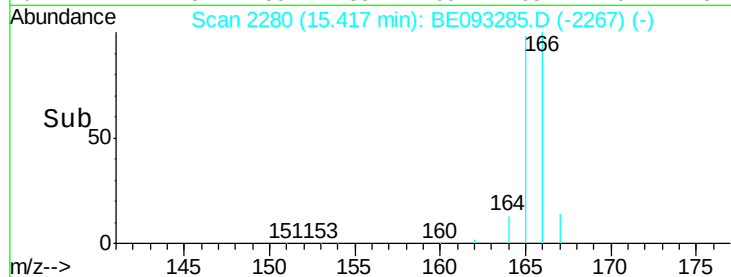
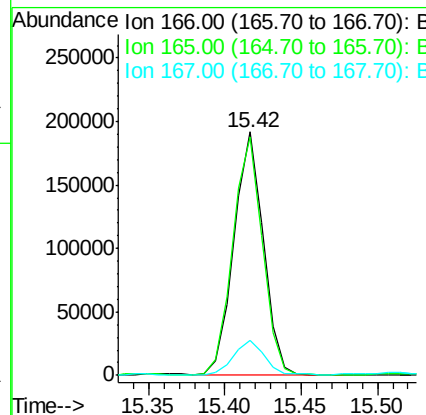
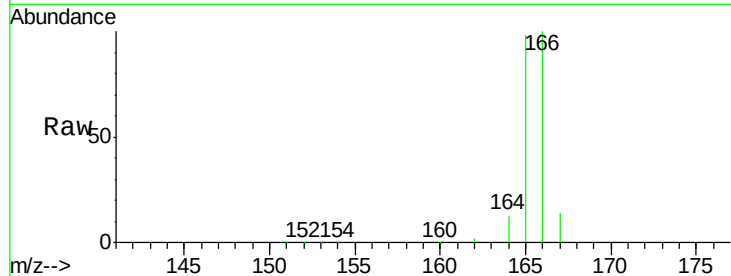
ClientSampleId :

F5E17

|           |      |       |        |
|-----------|------|-------|--------|
| Tgt Ion:  | 166  | Resp: | 255758 |
| Ion Ratio |      | Lower | Upper  |
| 166       | 100  |       |        |
| 165       | 98.2 | 73.4  | 110.2  |
| 167       | 14.2 | 14.6  | 22.0#  |

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#12

Phenanthrene

Concen: 26.859 ng/ul

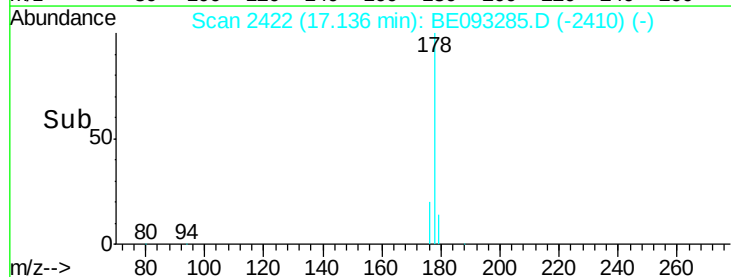
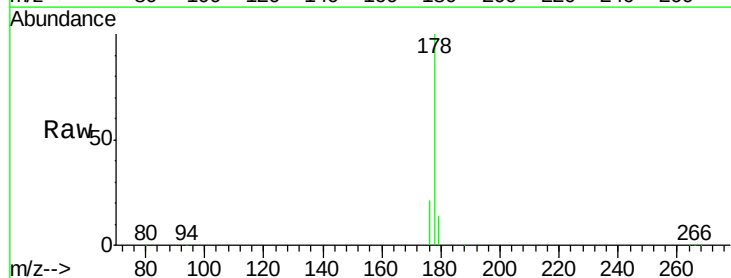
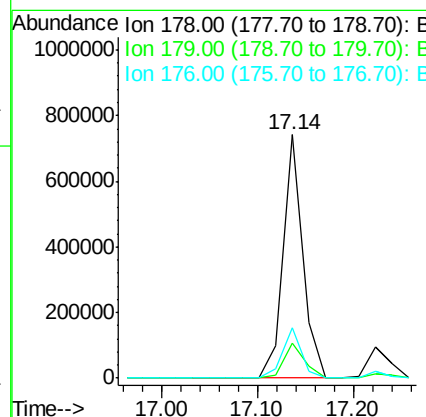
RT: 17.14 min Scan# 2422

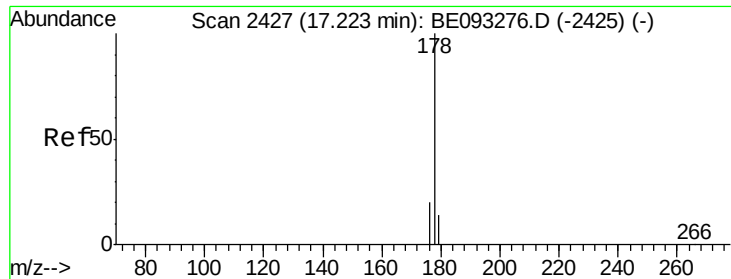
Delta R.T. 0.00 min

Lab File: BE093285.D

Acq: 20 Jun 2017 17:20

|           |      |       |         |
|-----------|------|-------|---------|
| Tgt Ion:  | 178  | Resp: | 1055927 |
| Ion Ratio |      | Lower | Upper   |
| 178       | 100  |       |         |
| 179       | 14.5 | 18.4  | 27.6#   |
| 176       | 20.5 | 13.6  | 20.4#   |





#13

Anthracene

Concen: 4.440 ng/ul

RT: 17.22 min Scan# 2427

Delta R.T. 0.00 min

Lab File: BE093285.D

Acq: 20 Jun 2017 17:20

Instrument :

BNA\_E

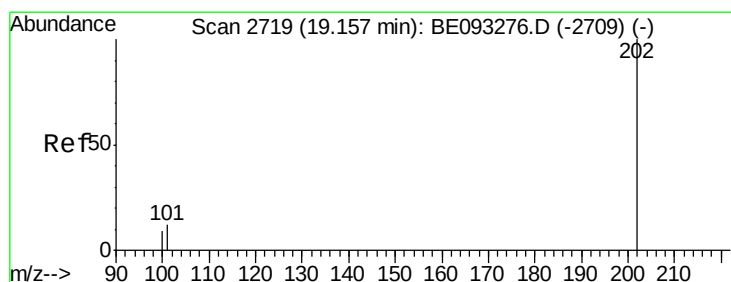
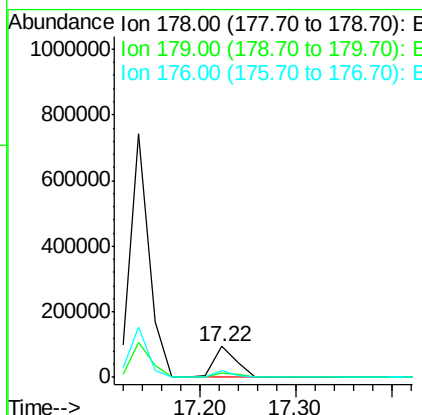
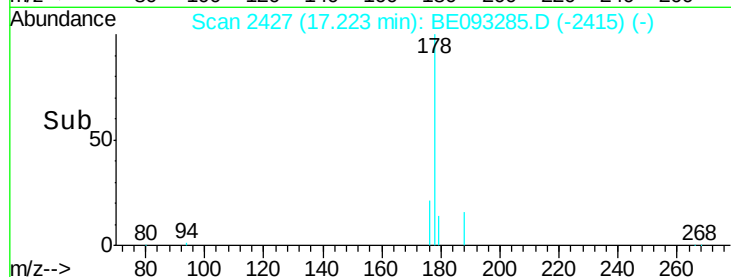
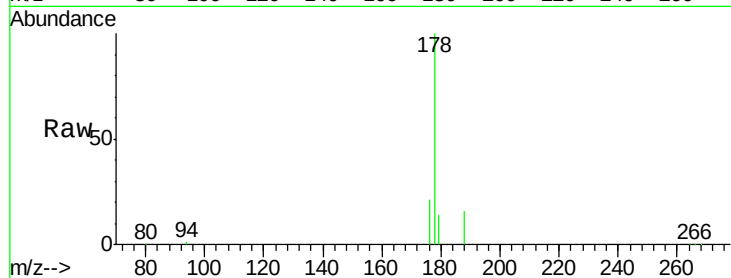
ClientSampleId :

F5E17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 14.3  | 18.1  | 27.1# |
| 176     | 20.6  | 14.7  | 22.1  |

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#15

Fluoranthene

Concen: 13.863 ng/ul

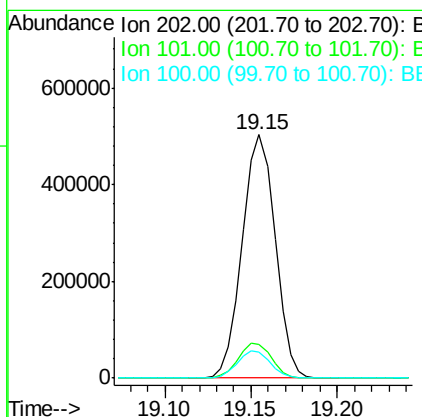
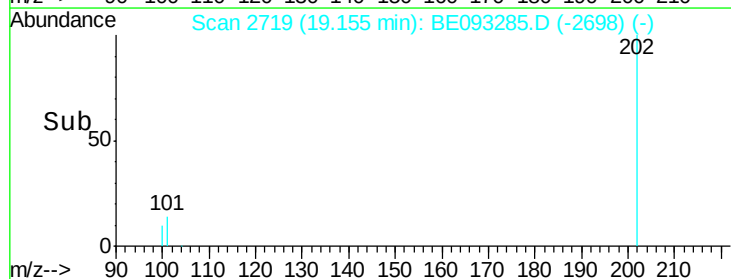
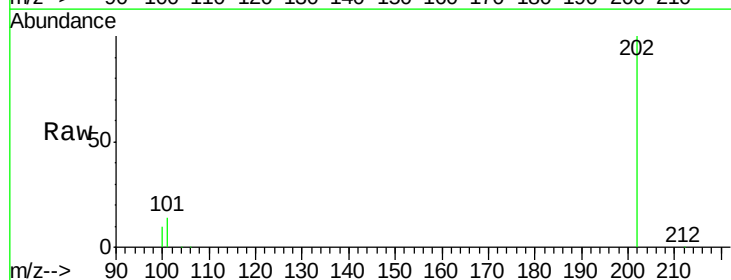
RT: 19.15 min Scan# 2719

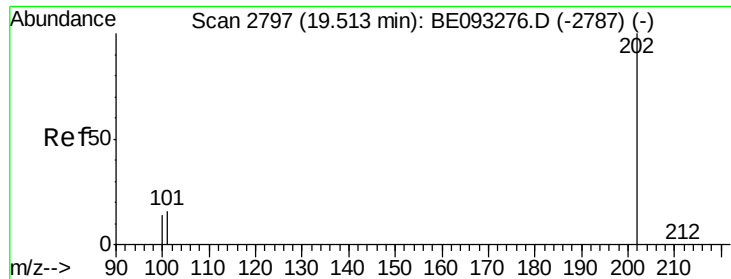
Delta R.T. -0.00 min

Lab File: BE093285.D

Acq: 20 Jun 2017 17:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 14.1  | 0.0   | 30.3  |
| 100     | 10.4  | 0.0   | 39.5  |





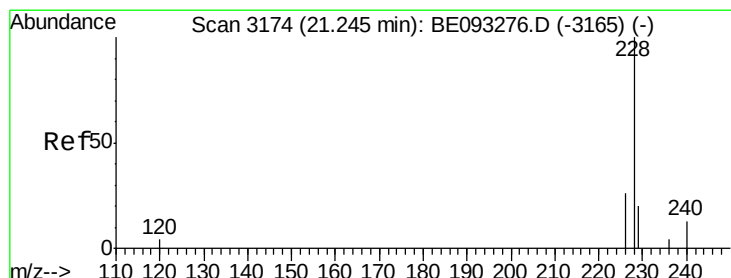
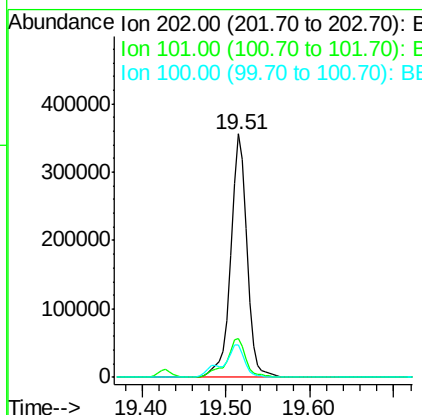
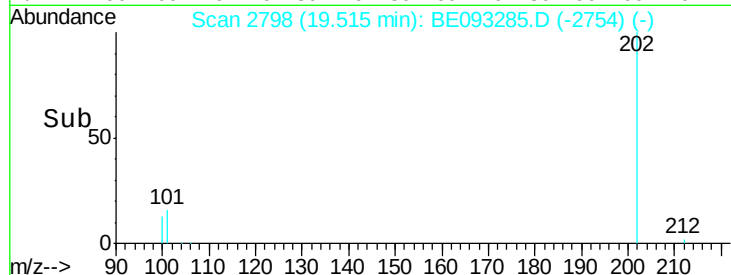
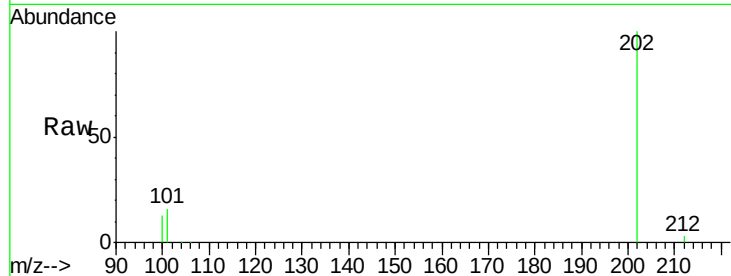
#17  
**Pyrene**  
 Concen: 11.185 ng/ul  
 RT: 19.51 min Scan# 2798  
 Delta R.T. 0.00 min  
 Lab File: BE093285.D  
 Acq: 20 Jun 2017 17:20

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5E17

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 16.1  | 18.2       | 27.4#      |
| 100     | 13.2  | 15.6       | 23.4#      |

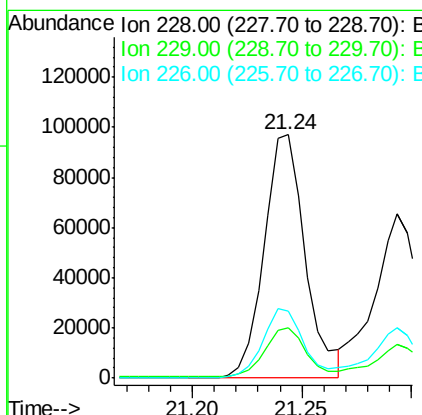
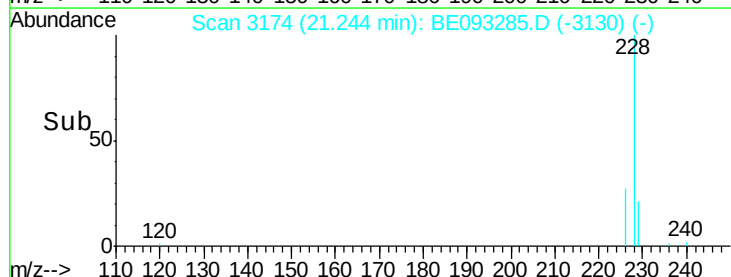
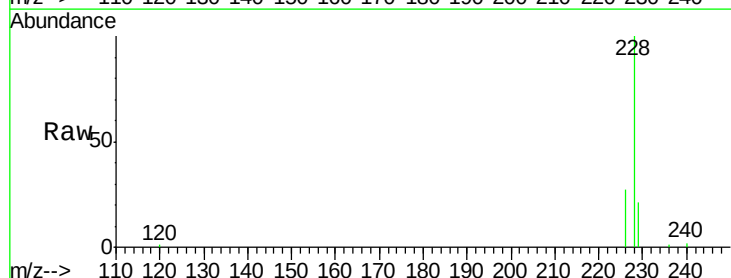
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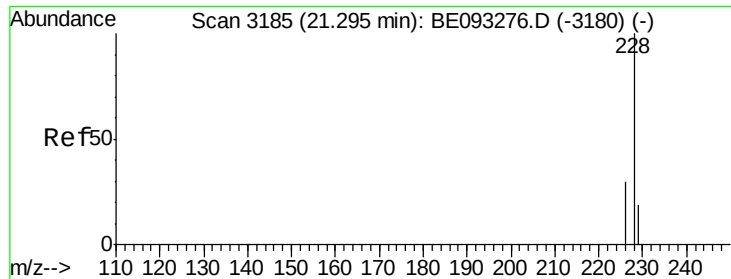
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#18  
**Benzo(a)anthracene**  
 Concen: 3.277 ng/ul  
 RT: 21.24 min Scan# 3174  
 Delta R.T. -0.00 min  
 Lab File: BE093285.D  
 Acq: 20 Jun 2017 17:20

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 20.9  | 22.8       | 34.2#      |
| 226     | 27.4  | 17.0       | 25.6#      |





#19

Chrysene

Concen: 2.303 ng/ul

RT: 21.29 min Scan# 3185

Delta R.T. -0.00 min

Lab File: BE093285.D

Acq: 20 Jun 2017 17:20

Instrument :

BNA\_E

ClientSampleId :

F5E17

Tgt Ion:228 Resp: 91938

Ion Ratio Lower Upper

228 100

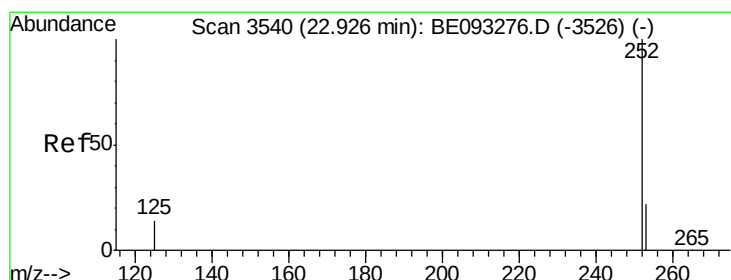
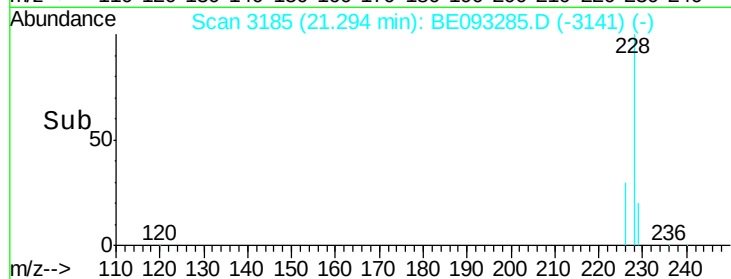
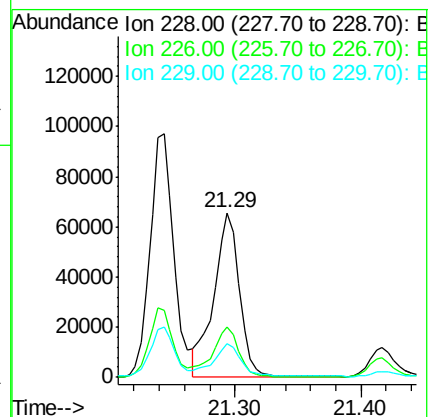
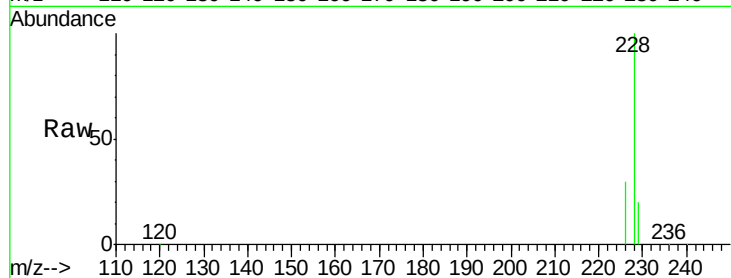
226 30.4 23.4 35.0

229 20.3 17.7 26.5

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#21

Benzo(b)fluoranthene

Concen: 1.504 ng/ul

RT: 22.93 min Scan# 3541

Delta R.T. 0.01 min

Lab File: BE093285.D

Acq: 20 Jun 2017 17:20

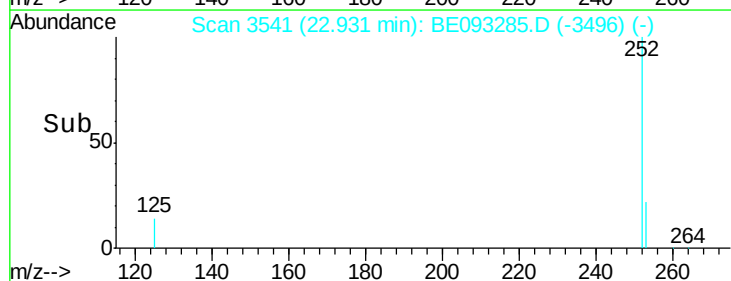
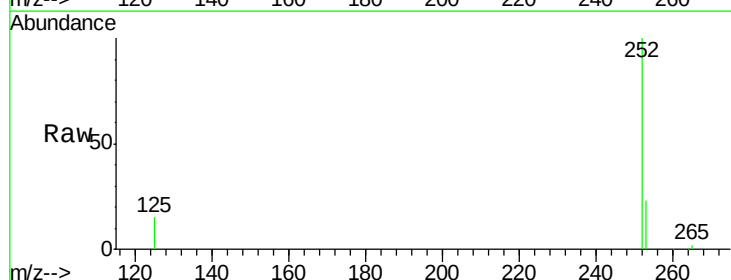
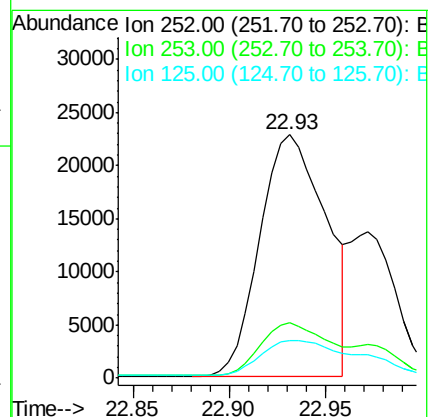
Tgt Ion:252 Resp: 54434

Ion Ratio Lower Upper

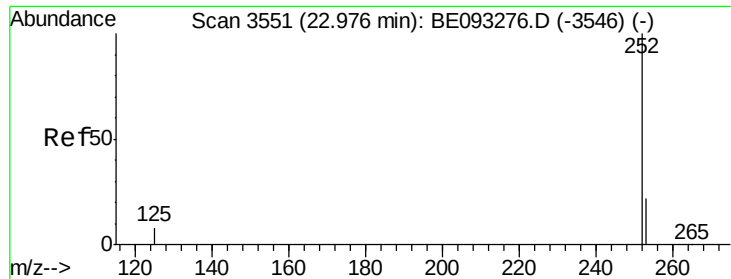
252 100

253 22.7 0.0 64.2

125 15.4 0.0 35.0







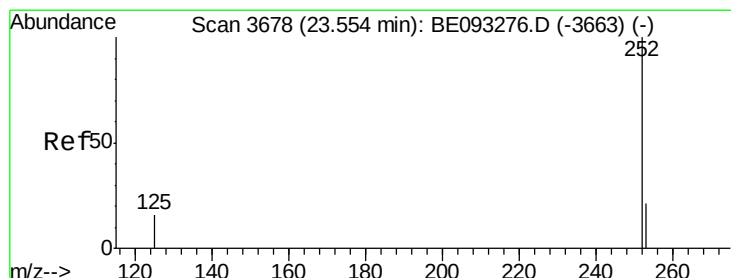
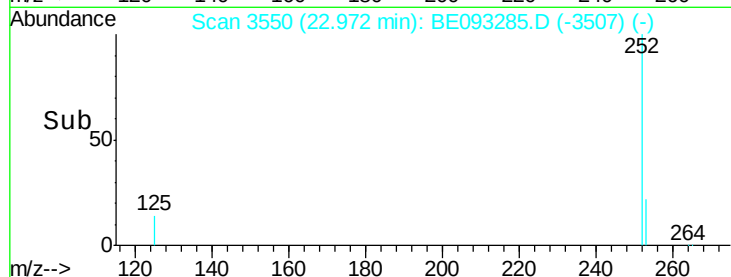
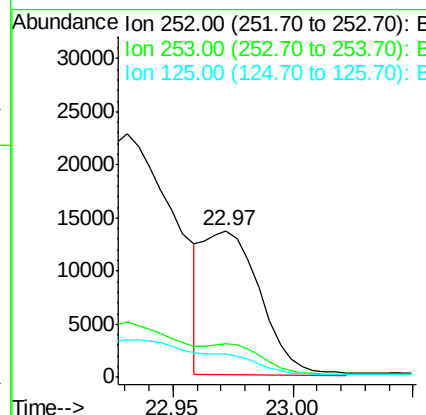
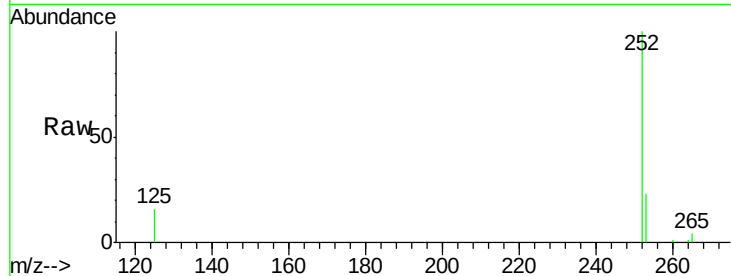
#22  
Benzo(k)fluoranthene  
Concen: 0.588 ng/ul m  
RT: 22.97 min Scan# 3550  
Delta R.T. -0.00 min  
Lab File: BE093285.D  
Acq: 20 Jun 2017 17:20

Instrument :  
BNA\_E  
ClientSampleId :  
F5E17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 24.5  | 36.7# |
| 125     | 15.7  | 13.7  | 20.5  |

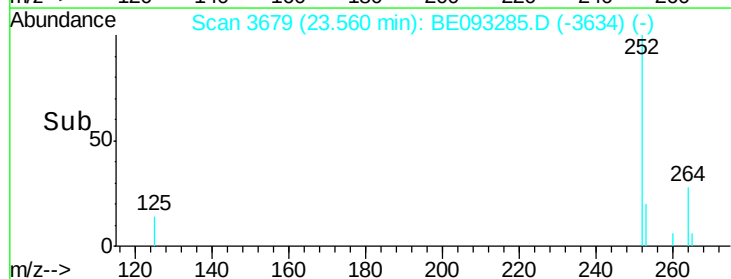
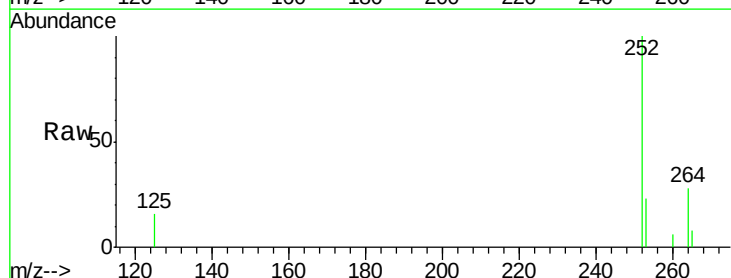
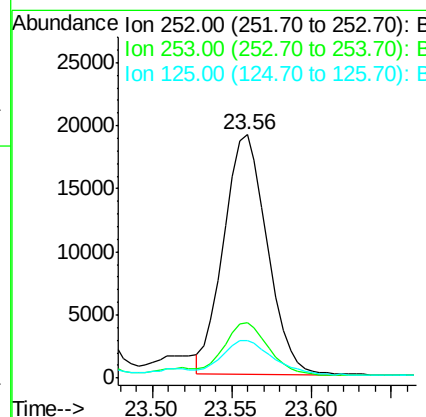
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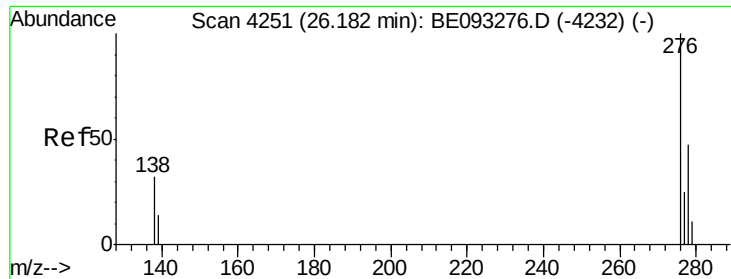
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#23  
Benzo(a)pyrene  
Concen: 1.060 ng/ul m  
RT: 23.56 min Scan# 3679  
Delta R.T. 0.01 min  
Lab File: BE093285.D  
Acq: 20 Jun 2017 17:20

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 28.5  | 42.7# |
| 125     | 15.6  | 18.1  | 27.1# |





#24

Indeno(1,2,3-cd)pyrene

Concen: 0.249 ng/ul m

RT: 26.18 min Scan# 4251

Delta R.T. -0.00 min

Lab File: BE093285.D

Acq: 20 Jun 2017 17:20

Instrument :

BNA\_E

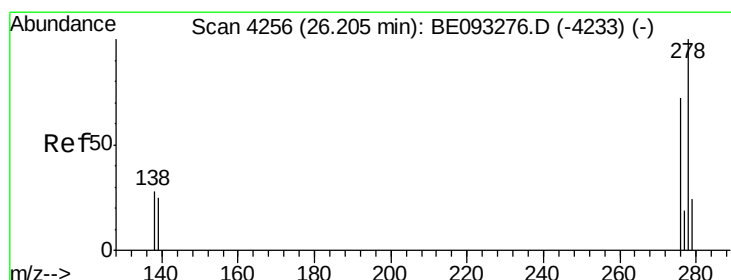
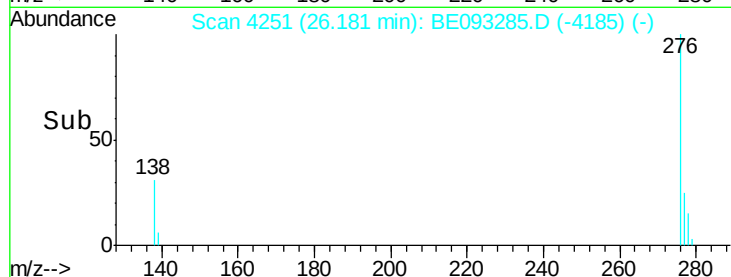
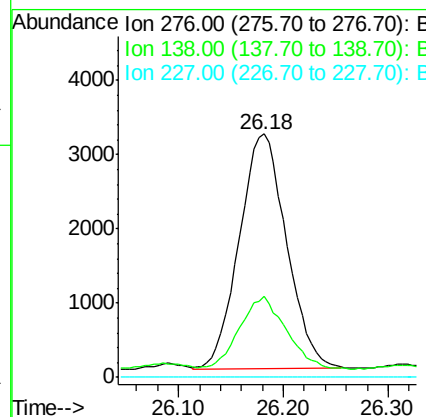
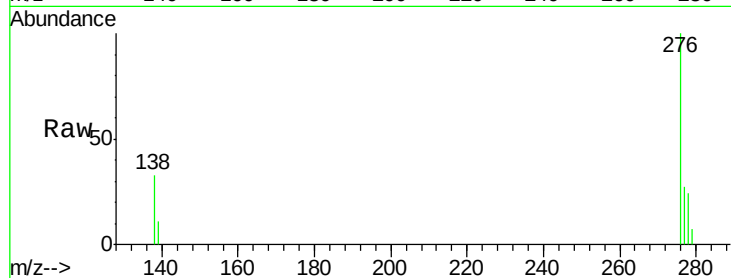
ClientSampleId :

F5E17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 9860  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 1.5   | 28.0  | 42.0# |
| 227       | 0.0   | 8.0   | 12.0# |

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#25

Dibenzo(a,h)anthracene

Concen: 0.086 ng/ul m

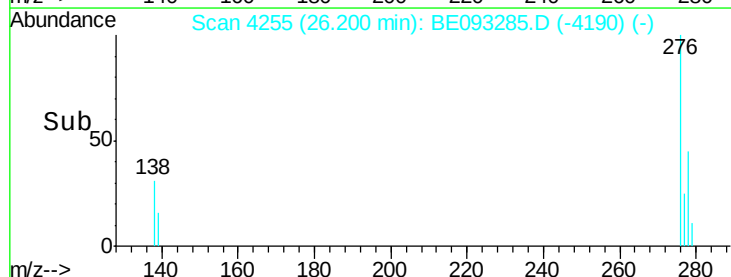
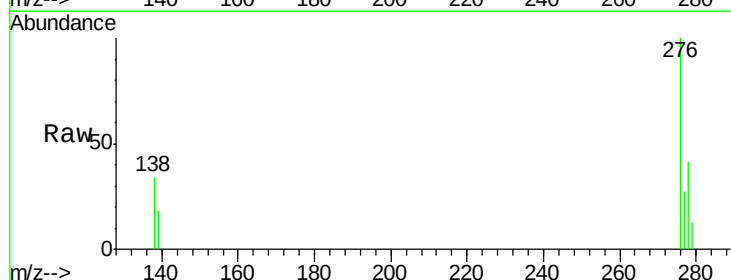
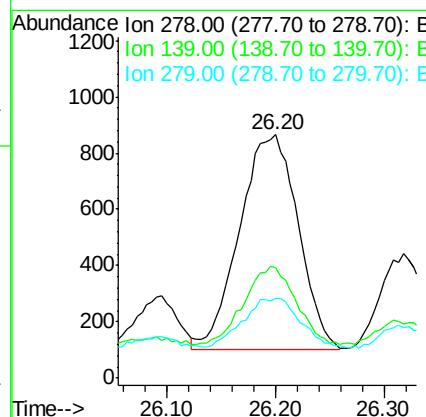
RT: 26.20 min Scan# 4255

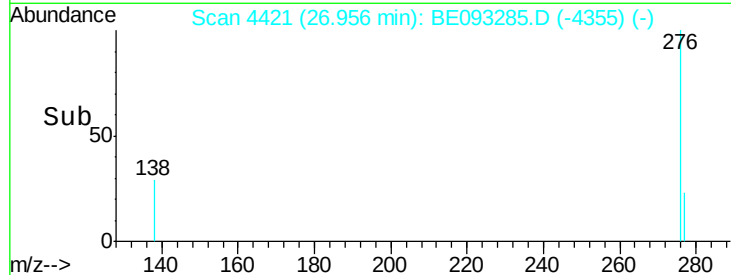
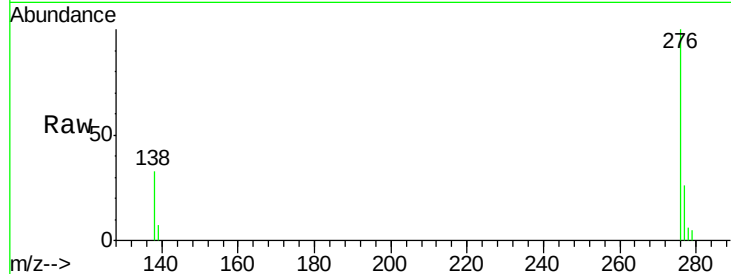
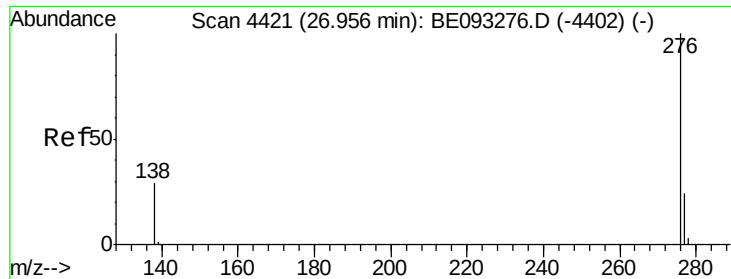
Delta R.T. -0.00 min

Lab File: BE093285.D

Acq: 20 Jun 2017 17:20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 2877  |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 45.3  | 17.4  | 26.0# |
| 279       | 32.9  | 25.9  | 38.9  |





#26  
 Benzo(g,h,i)perylene  
 Concen: 0.216 ng/ul  
 RT: 26.96 min Scan# 4421  
 Delta R.T. -0.00 min  
 Lab File: BE093285.D  
 Acq: 20 Jun 2017 17:20

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 7340  |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 33.4  | 21.8  | 32.8# |
| 277       | 26.4  | 20.5  | 30.7  |

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5E17

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