

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061317\  
 Data File : BE093141.D  
 Acq On : 13 Jun 2017 21:29  
 Operator : SJ/MA  
 Sample : I3558-02  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5A56

Manual Integrations  
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 6/14/2017 2:59:21 PM

Quant Time: Jun 14 10:39:57 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 14 08:39:04 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.74  | 152  | 4348     | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.52 | 136  | 20762    | 0.40  | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.37 | 164  | 12760    | 0.40  | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.10 | 188  | 30391    | 0.40  | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.26 | 240  | 33730    | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.66 | 264  | 27741m   | 0.40  | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.11 | 152  | 5311     | 0.17  | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.13 | 212  | 16253    | 0.20  | ng/ul  | 0.00     |
| Target Compounds            |       |      |          |       | Qvalue |          |
| 3) Naphthalene              | 10.57 | 128  | 23335    | 0.453 | ng/ul# | 92       |
| 5) 2-Methylnaphthalene      | 12.19 | 142  | 5123     | 0.145 | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.08 | 152  | 1080     | 0.020 | ng/ul# | 83       |
| 8) Acenaphthene             | 14.43 | 153  | 4502     | 0.102 | ng/ul  | 98       |
| 9) Fluorene                 | 15.42 | 166  | 5517     | 0.107 | ng/ul  | 91       |
| 12) Phenanthrene            | 17.14 | 178  | 25700    | 0.307 | ng/ul# | 87       |
| 13) Anthracene              | 17.22 | 178  | 5421     | 0.074 | ng/ul# | 93       |
| 15) Fluoranthene            | 19.15 | 202  | 19144    | 0.187 | ng/ul  | 84       |
| 17) Pyrene                  | 19.51 | 202  | 17737    | 0.178 | ng/ul# | 89       |
| 18) Benzo(a)anthracene      | 21.24 | 228  | 5504     | 0.061 | ng/ul# | 86       |
| 19) Chrysene                | 21.29 | 228  | 5088     | 0.055 | ng/ul  | 95       |
| 21) Benzo(b)fluoranthene    | 22.93 | 252  | 5161     | 0.061 | ng/ul  | 82       |
| 23) Benzo(a)pyrene          | 23.55 | 252  | 3353m    | 0.042 | ng/ul  |          |
| 26) Benzo(g,h,i)perylene    | 26.95 | 276  | 2083     | 0.026 | ng/ul# | 73       |

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

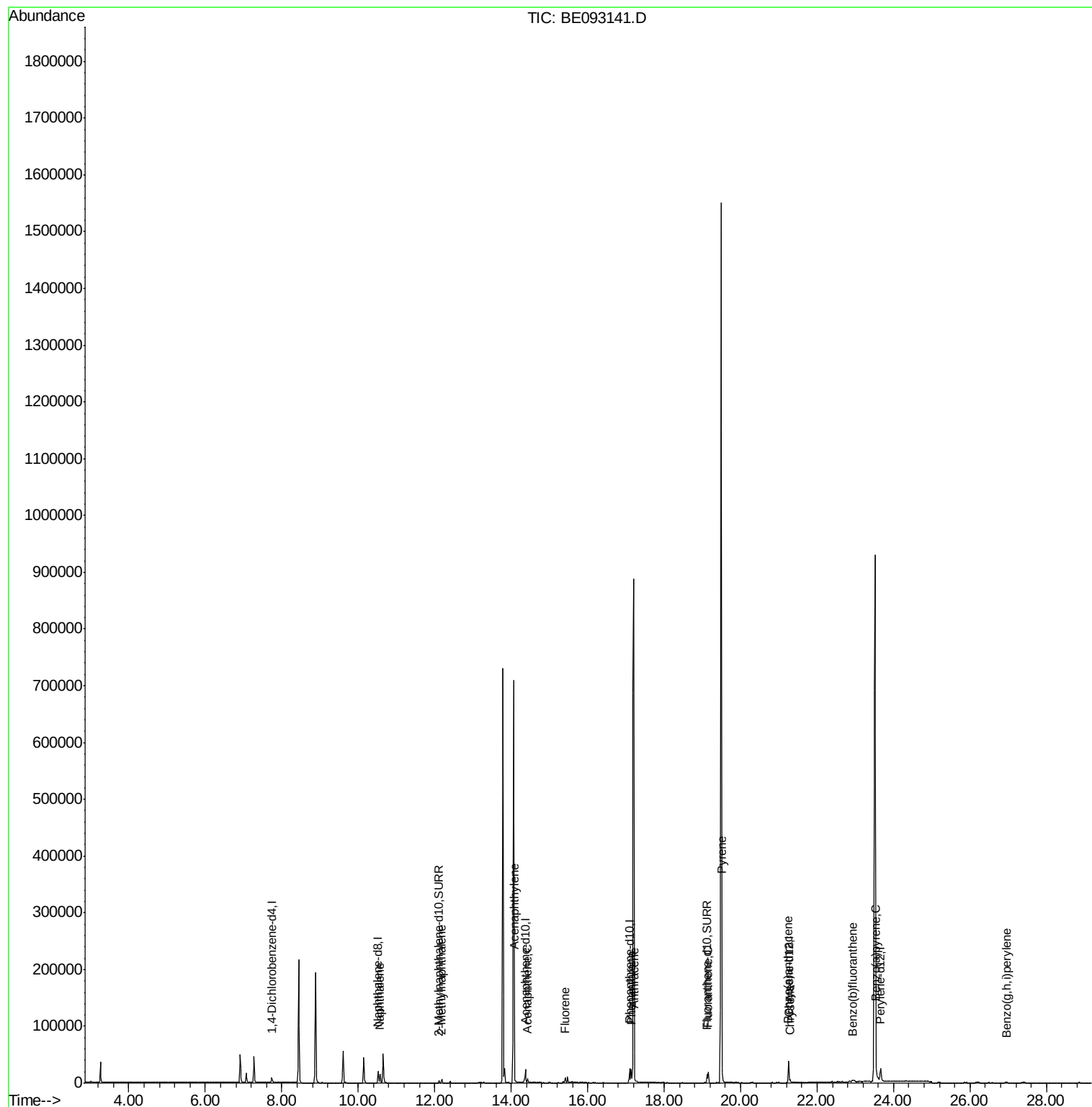
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE061317\  
Data File : BE093141.D  
Acq On : 13 Jun 2017 21:29  
Operator : SJ/MA  
Sample : I3558-02  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

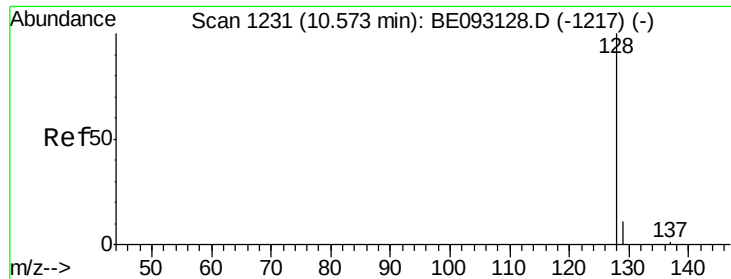
Instrument :  
BNA\_E  
ClientSampleId :  
F5A56

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Quant Time: Jun 14 10:39:57 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 14 08:39:04 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.453 ng/ul

RT: 10.57 min Scan# 1230

Delta R.T. 0.00 min

Lab File: BE093141.D

Acq: 13 Jun 2017 21:29

Instrument :

BNA\_E

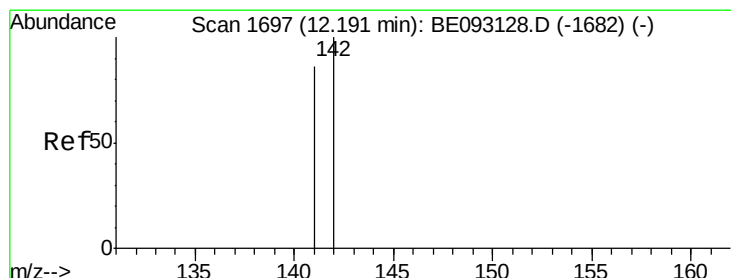
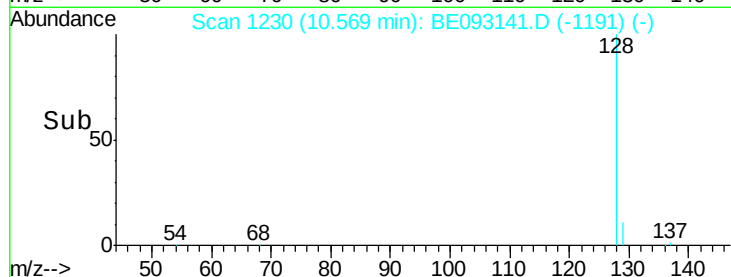
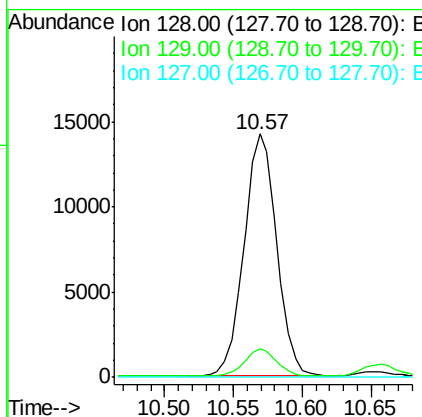
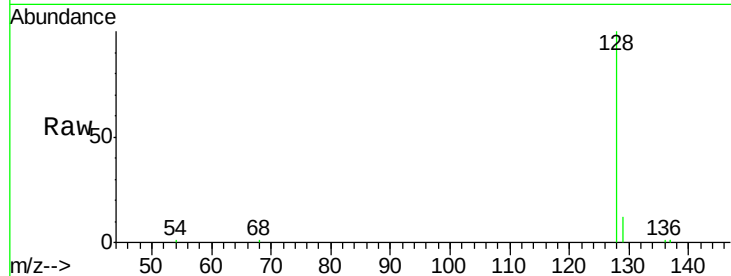
ClientSampleId :

F5A56

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 23335 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 11.6  | 11.3  | 16.9  |
| 127       | 0.0   | 4.0   | 6.0   |

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#5

2-Methylnaphthalene

Concen: 0.145 ng/ul

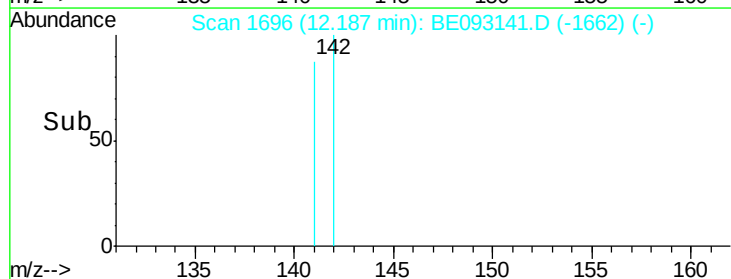
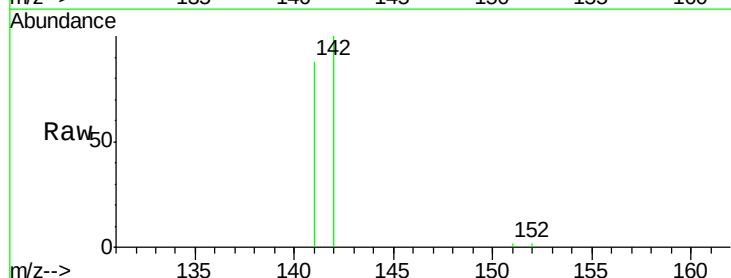
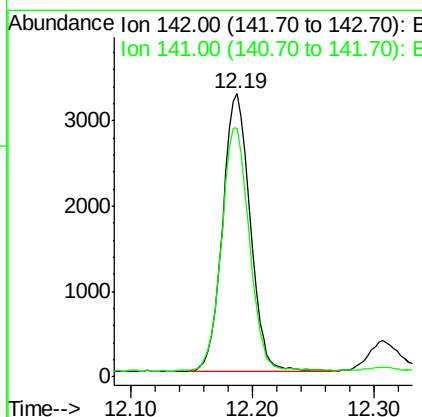
RT: 12.19 min Scan# 1696

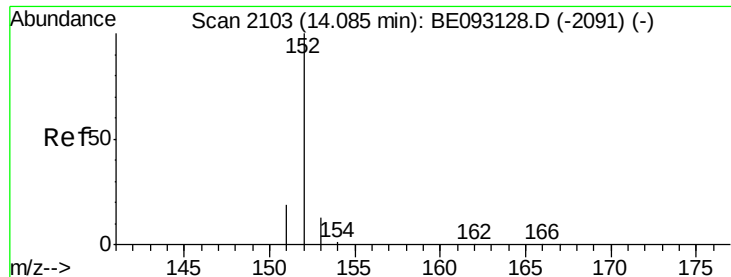
Delta R.T. 0.00 min

Lab File: BE093141.D

Acq: 13 Jun 2017 21:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 5123  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 88.6  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 0.020 ng/ul

RT: 14.08 min Scan# 2103

Delta R.T. -0.00 min

Lab File: BE093141.D

Acq: 13 Jun 2017 21:29

Instrument :

BNA\_E

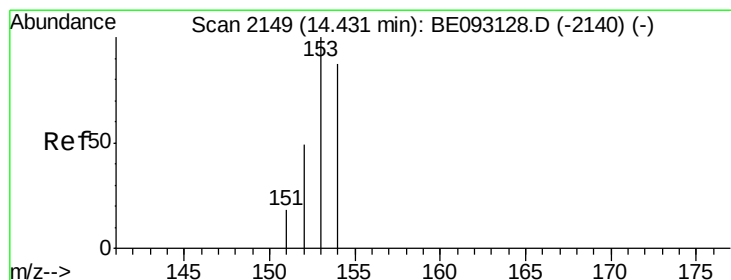
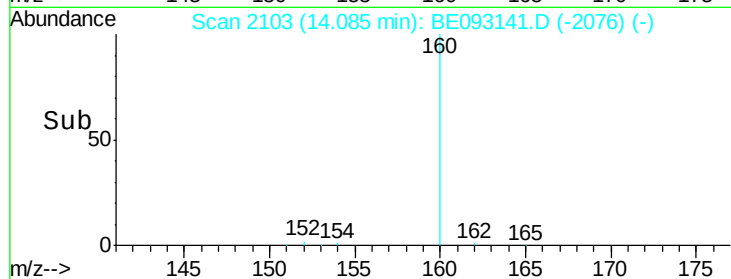
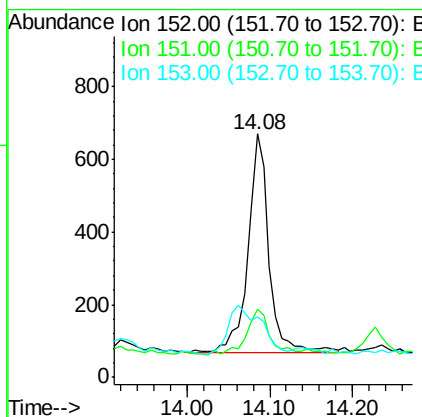
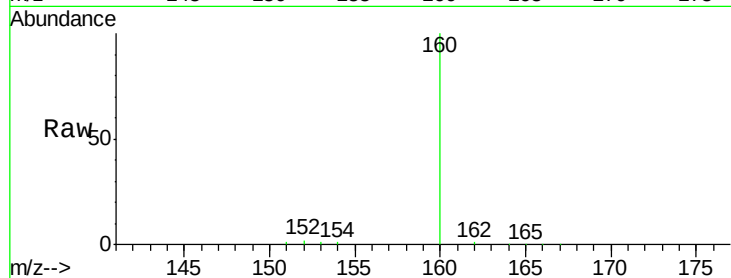
ClientSampleId :

F5A56

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 1080  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 28.2  | 17.1  | 25.7# |
| 153       | 24.9  | 12.8  | 19.2# |

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#8

Acenaphthene

Concen: 0.102 ng/ul

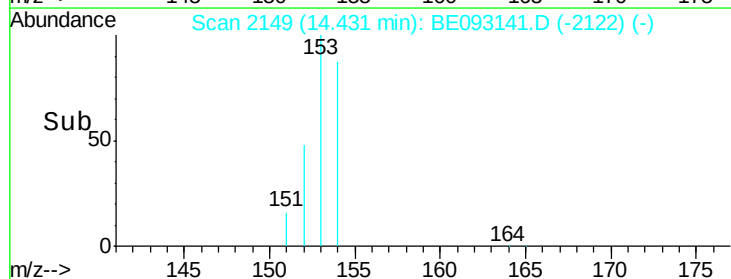
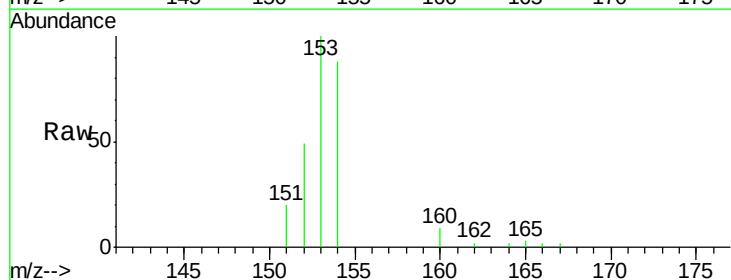
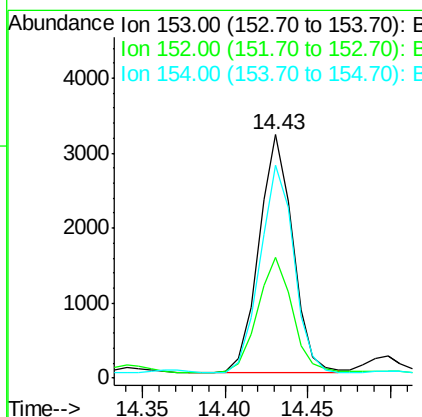
RT: 14.43 min Scan# 2149

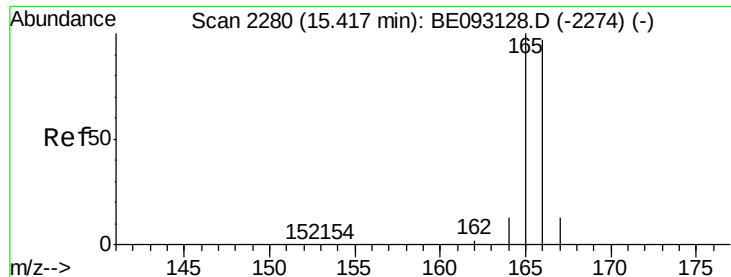
Delta R.T. -0.00 min

Lab File: BE093141.D

Acq: 13 Jun 2017 21:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 4502  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 49.4  | 40.3  | 60.5  |
| 154       | 87.5  | 71.4  | 107.2 |





#9

Fluorene

Concen: 0.107 ng/ul

RT: 15.42 min Scan# 2280

Delta R.T. -0.00 min

Lab File: BE093141.D

Acq: 13 Jun 2017 21:29

Instrument :

BNA\_E

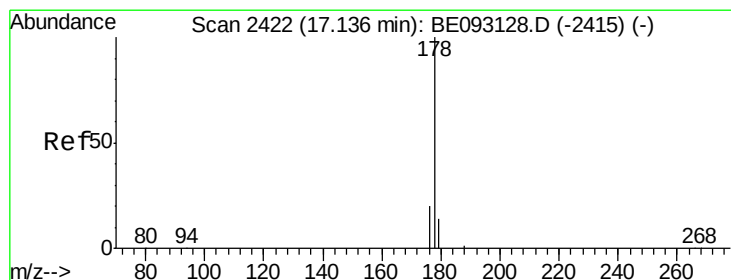
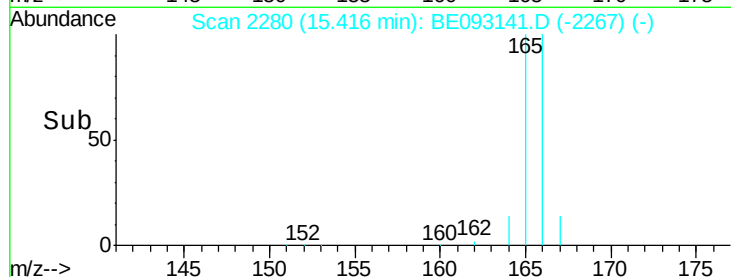
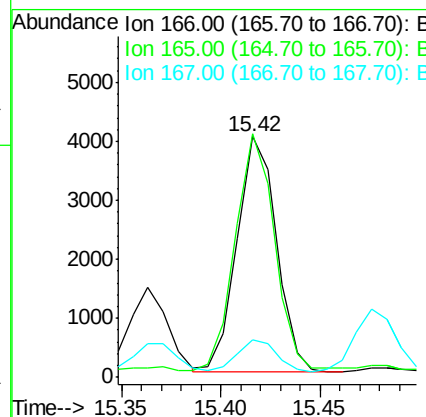
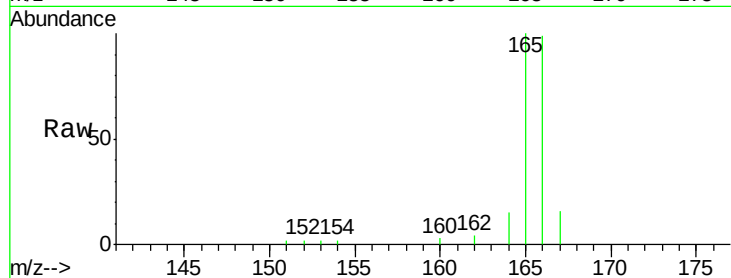
ClientSampled :

F5A56

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 5517  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 101.3 | 73.4  | 110.2 |
| 167       | 15.8  | 14.6  | 22.0  |

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#12

Phenanthrene

Concen: 0.307 ng/ul

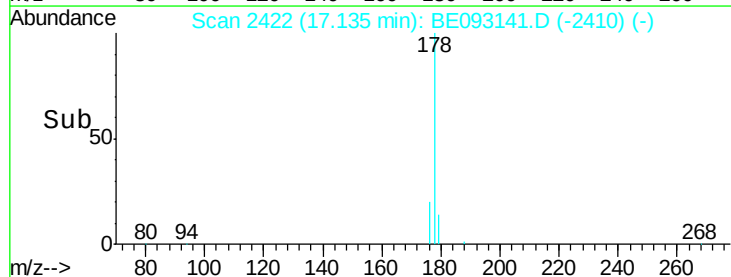
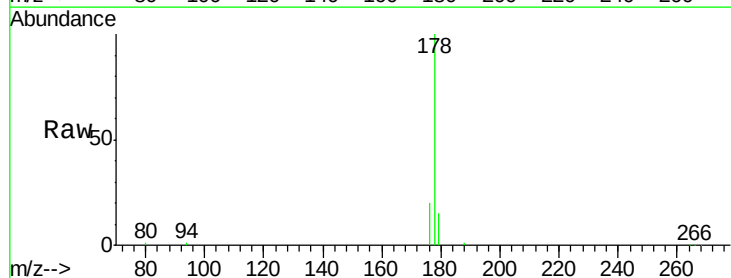
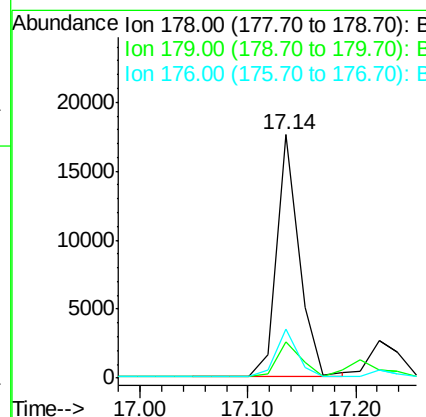
RT: 17.14 min Scan# 2422

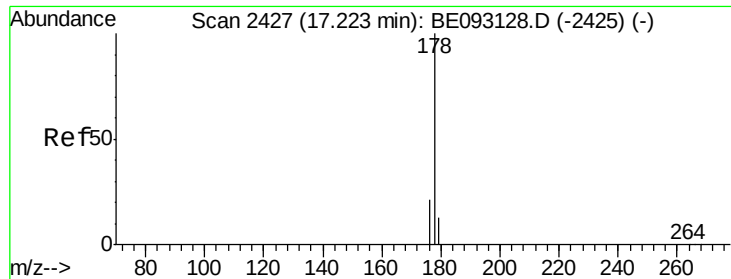
Delta R.T. -0.00 min

Lab File: BE093141.D

Acq: 13 Jun 2017 21:29

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 25700 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 14.9  | 18.4  | 27.6# |
| 176       | 20.3  | 13.6  | 20.4  |





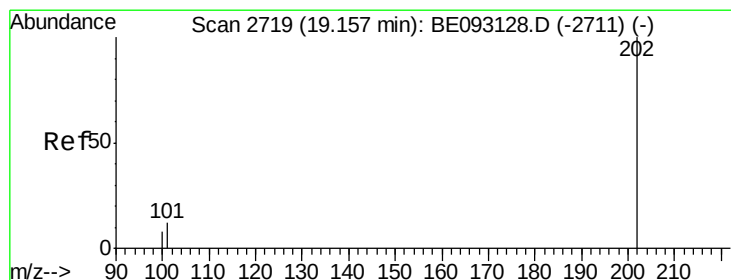
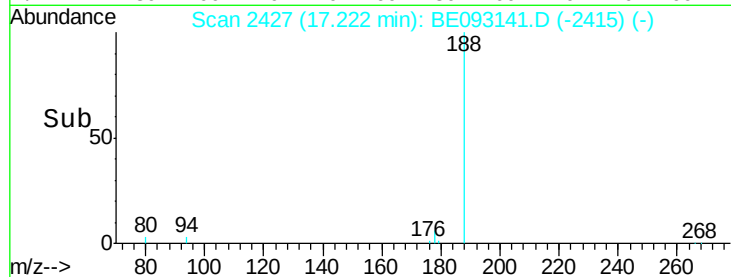
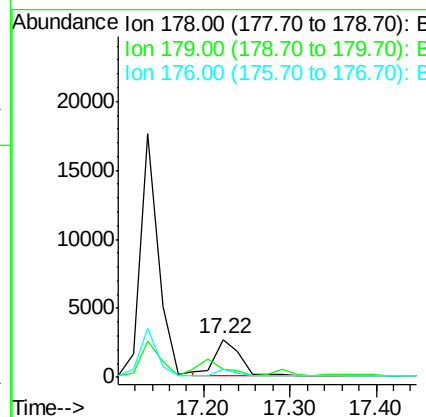
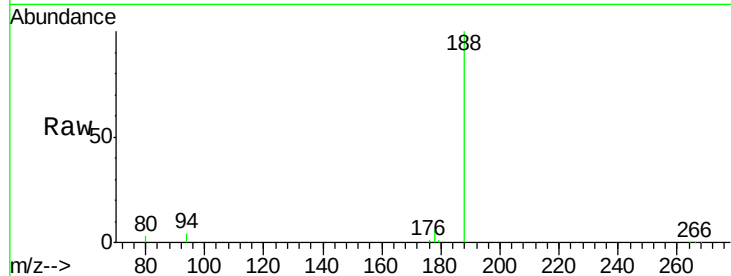
#13  
 Anthracene  
 Concen: 0.074 ng/ul  
 RT: 17.22 min Scan# 2427  
 Delta R.T. -0.00 min  
 Lab File: BE093141.D  
 Acq: 13 Jun 2017 21:29

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5A56

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 20.3  | 18.1  | 27.1  |
| 176     | 23.0  | 14.7  | 22.1  |

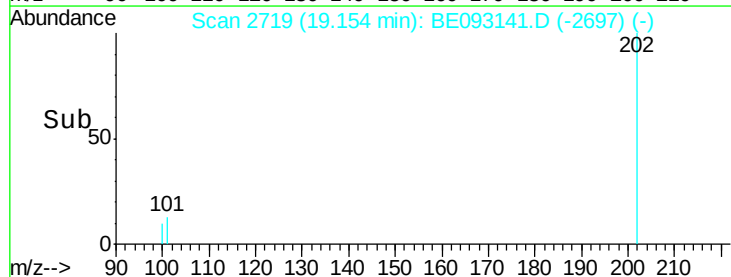
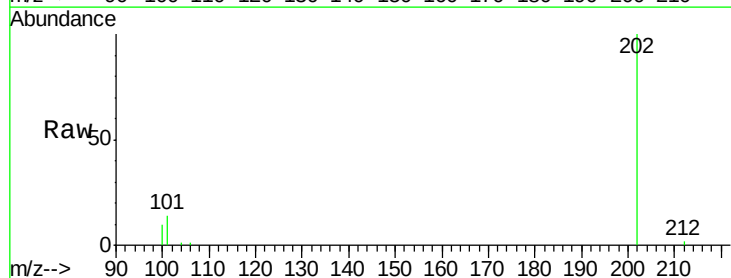
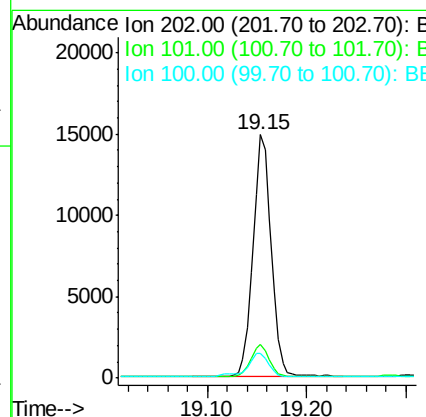
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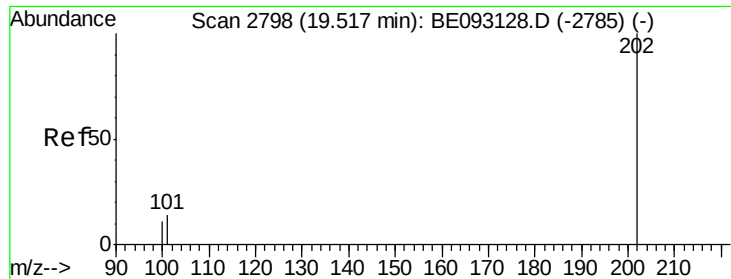
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#15  
 Fluoranthene  
 Concen: 0.187 ng/ul  
 RT: 19.15 min Scan# 2719  
 Delta R.T. -0.00 min  
 Lab File: BE093141.D  
 Acq: 13 Jun 2017 21:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.9  | 0.0   | 30.3  |
| 100     | 10.4  | 0.0   | 39.5  |





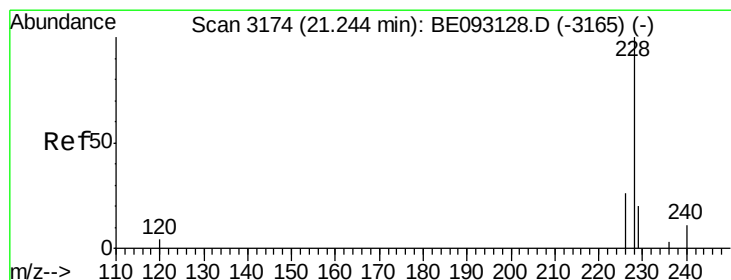
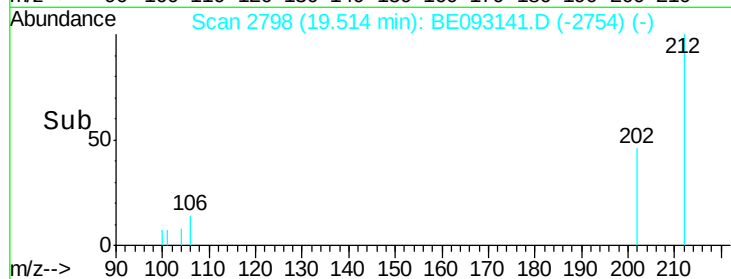
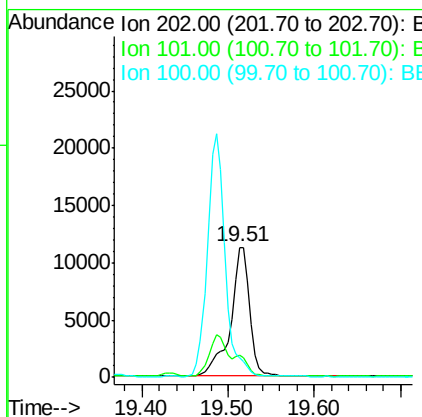
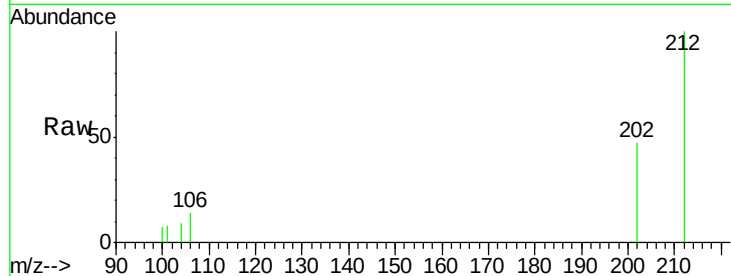
#17  
 Pyrene  
 Concen: 0.178 ng/ul  
 RT: 19.51 min Scan# 2798  
 Delta R.T. -0.00 min  
 Lab File: BE093141.D  
 Acq: 13 Jun 2017 21:29

Instrument :  
 BNA\_E  
 ClientSampleId :  
 F5A56

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 17737 |       |       |
| 101     | 16.7  | 18.2  | 27.4# |       |
| 100     | 15.1  | 15.6  | 23.4# |       |

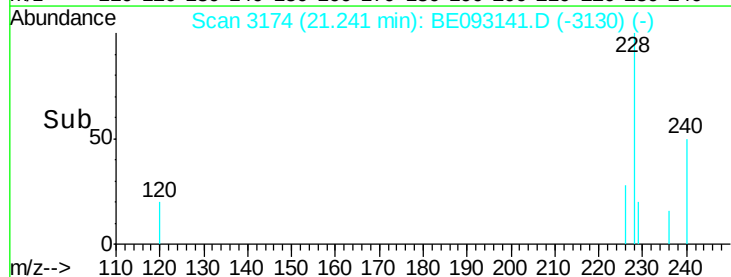
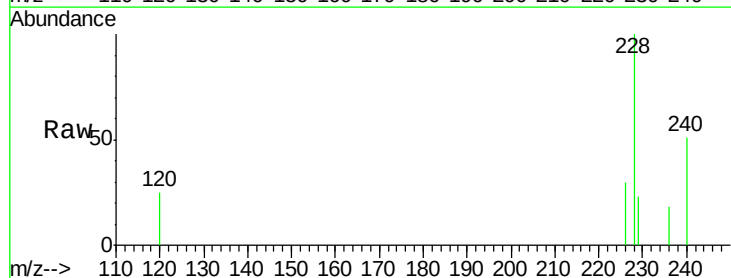
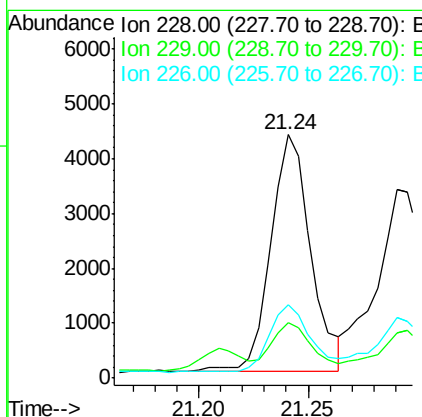
Manual Integrations  
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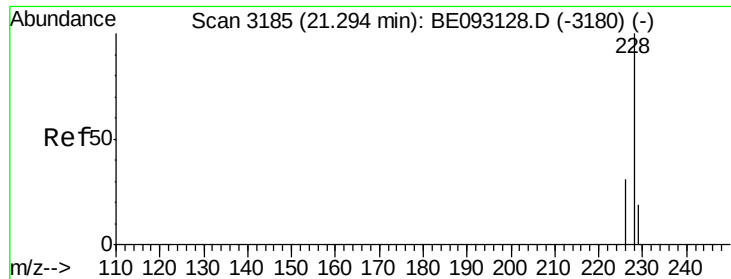
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#18  
 Benzo(a)anthracene  
 Concen: 0.061 ng/ul  
 RT: 21.24 min Scan# 3174  
 Delta R.T. -0.00 min  
 Lab File: BE093141.D  
 Acq: 13 Jun 2017 21:29

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 228     | 100   | 5504 |       |       |
| 229     | 22.5  | 22.8 | 34.2# |       |
| 226     | 30.0  | 17.0 | 25.6# |       |





#19

Chrysene

Concen: 0.055 ng/ul

RT: 21.29 min Scan# 3185

Delta R.T. -0.00 min

Lab File: BE093141.D

Acq: 13 Jun 2017 21:29

Instrument :

BNA\_E

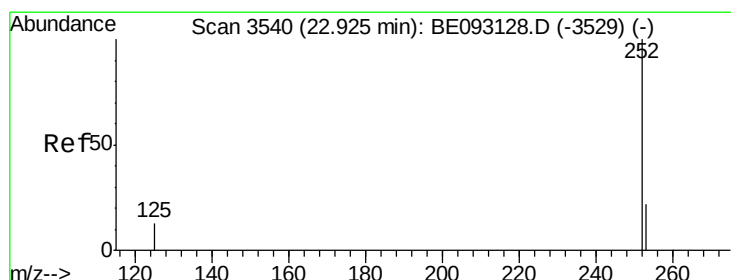
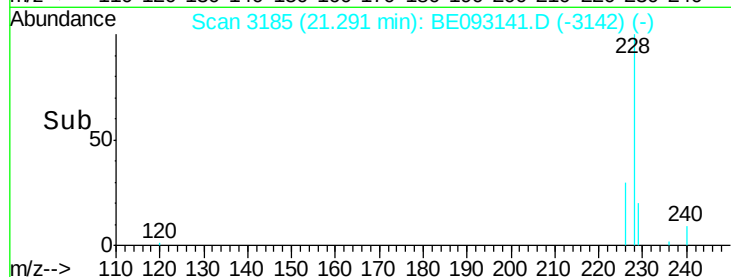
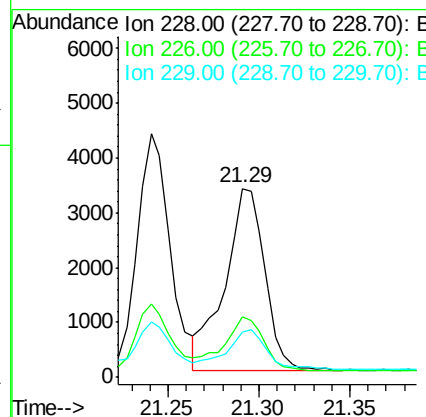
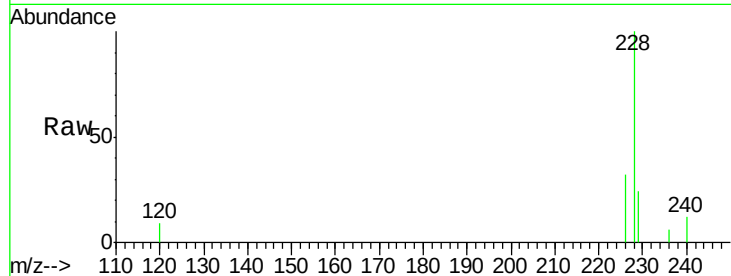
ClientSampleId :

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|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 5088 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 32.1  | 23.4  | 35.0 |
| 229       | 23.8  | 17.7  | 26.5 |

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#21

Benzo(b)fluoranthene

Concen: 0.061 ng/ul

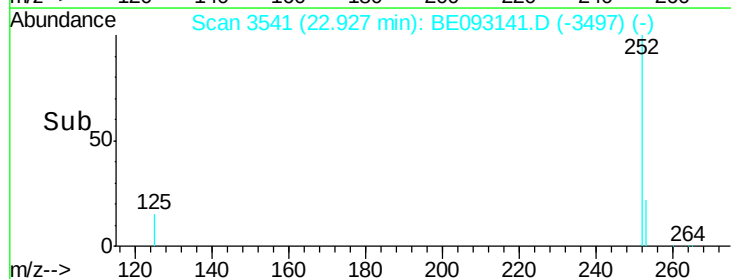
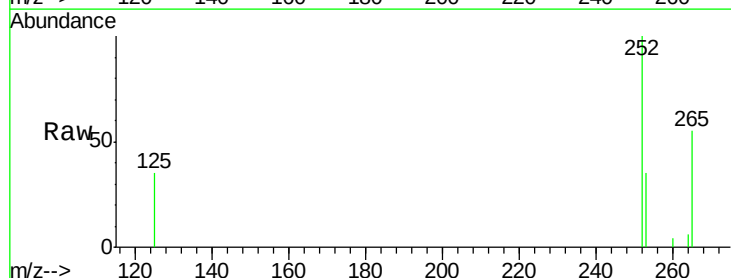
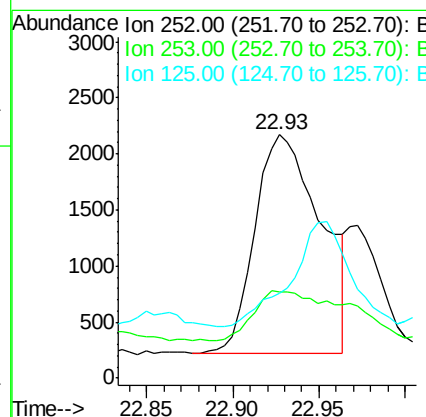
RT: 22.93 min Scan# 3541

Delta R.T. 0.00 min

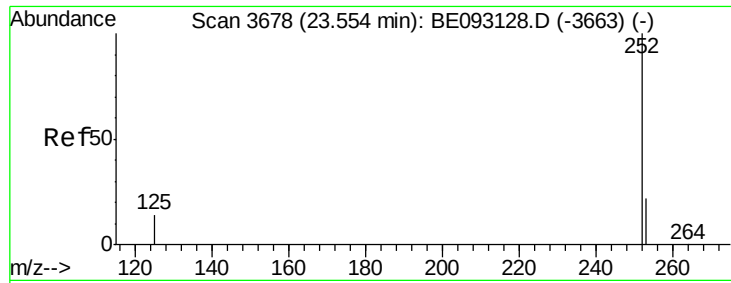
Lab File: BE093141.D

Acq: 13 Jun 2017 21:29

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 5161 |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 35.3  | 0.0   | 64.2 |
| 125       | 35.0  | 0.0   | 35.0 |







#23

Benzo(a)pyrene

Concen: 0.042 ng/ul m

RT: 23.55 min Scan# 3678

Delta R.T. -0.00 min

Lab File: BE093141.D

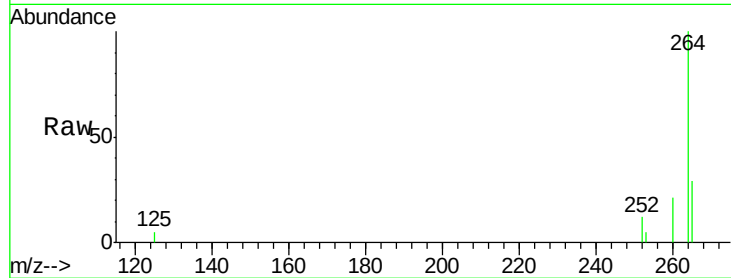
Acq: 13 Jun 2017 21:29

Instrument :

BNA\_E

ClientSampleId :

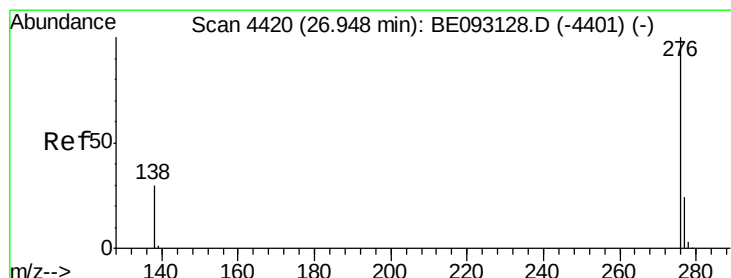
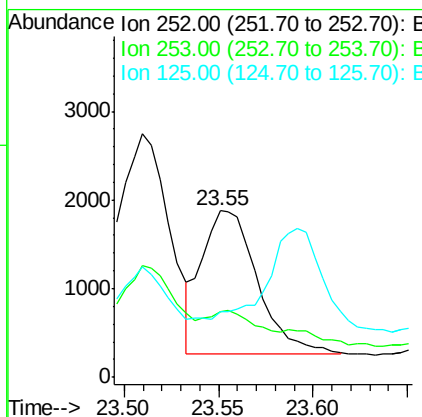
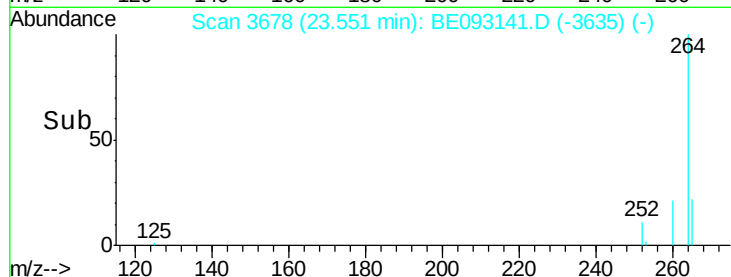
F5A56



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 39.8  | 28.5  | 42.7  |
| 125     | 39.2  | 18.1  | 27.1# |

Manual Integrations  
APPROVED

mohammad  
6/14/2017 2:59:21 PM



#26

Benzo(g,h,i)perylene

Concen: 0.026 ng/ul

RT: 26.95 min Scan# 4421

Delta R.T. -0.00 min

Lab File: BE093141.D

Acq: 13 Jun 2017 21:29

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 46.3  | 21.8  | 32.8# |
| 277     | 34.2  | 20.5  | 30.7# |

