

Data File : BE093863.D  
Acq On : 17 Aug 2017 13:18  
Operator : SJ/JU  
Sample : I4693-01  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_E  
ClientSampleId :  
C1B81

Manual Integrations  
APPROVED

Sohil  
8/18/2017 7:08:32 PM

Quant Time: Aug 17 19:31:21 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 19:06:13 2017  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc | Units | Dev(Min) |
|---------------------------|-------|------|----------|------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.92  | 152  | 1326     | 0.40 | ng/ul | 0.00     |
| 2) Naphthalene-d8         | 10.71 | 136  | 6987     | 0.40 | ng/ul | 0.00     |
| 6) Acenaphthene-d10       | 14.53 | 164  | 4524     | 0.40 | ng/ul | 0.00     |
| 10) Phenanthrene-d10      | 17.26 | 188  | 9255m    | 0.40 | ng/ul | 0.00     |
| 16) Chrysene-d12          | 21.41 | 240  | 9285     | 0.40 | ng/ul | 0.00     |
| 20) Perylene-d12          | 23.92 | 264  | 9812m    | 0.40 | ng/ul | 0.00     |

|                             |       |     |       |      |       |      |
|-----------------------------|-------|-----|-------|------|-------|------|
| System Monitoring Compounds |       |     |       |      |       |      |
| 4) 2-Methylnaphthalene-d10  | 12.29 | 152 | 5416  | 0.48 | ng/ul | 0.00 |
| 14) Fluoranthene-d10        | 19.28 | 212 | 12446 | 0.43 | ng/ul | 0.00 |

| Target Compounds           | R.T.  | QIon | Response | Conc | Units  | Qvalue |
|----------------------------|-------|------|----------|------|--------|--------|
| 3) Naphthalene             | 10.75 | 128  | 7830     | 0.46 | ng/ul# | 93     |
| 5) 2-Methylnaphthalene     | 12.36 | 142  | 11231    | 0.91 | ng/ul  | 98     |
| 7) Acenaphthylene          | 14.24 | 152  | 12120    | 0.64 | ng/ul  | 97     |
| 8) Acenaphthene            | 14.59 | 153  | 18015    | 1.21 | ng/ul  | 97     |
| 11) Pentachlorophenol      | 16.93 | 266  | 1505     | 0.99 | ng/ul  | 97     |
| 12) Phenanthrene           | 17.29 | 178  | 14554    | 0.58 | ng/ul# | 88     |
| 15) Fluoranthene           | 19.30 | 202  | 26332    | 0.84 | ng/ul  | 84     |
| 17) Pyrene                 | 19.67 | 202  | 25159    | 0.93 | ng/ul# | 82     |
| 18) Benzo(a)anthracene     | 21.40 | 228  | 13951    | 0.52 | ng/ul# | 86     |
| 21) Benzo(b)fluoranthene   | 23.15 | 252  | 18906    | 0.62 | ng/ul  | 87     |
| 22) Benzo(k)fluoranthene   | 23.20 | 252  | 23477m   | 0.78 | ng/ul  |        |
| 23) Benzo(a)pyrene         | 23.81 | 252  | 13027m   | 0.45 | ng/ul  |        |
| 24) Indeno(1,2,3-cd)pyrene | 26.57 | 276  | 19195m   | 0.60 | ng/ul  |        |
| 25) Dibenzo(a,h)anthracene | 26.59 | 278  | 19591m   | 0.74 | ng/ul  |        |
| 26) Benzo(g,h,i)perylene   | 27.39 | 276  | 20253m   | 0.75 | ng/ul  |        |

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

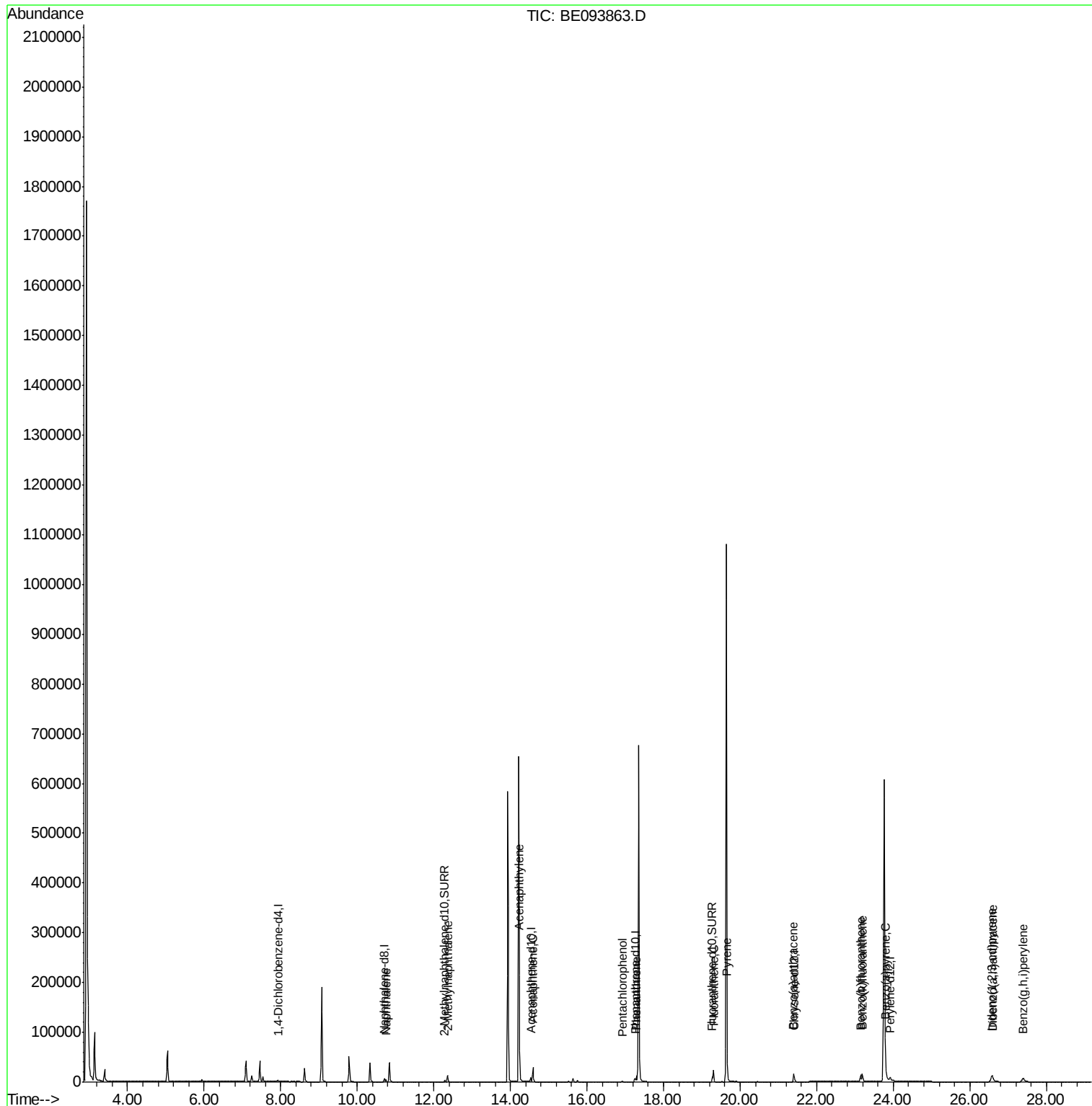
Data File : BE093863.D  
Acq On : 17 Aug 2017 13:18  
Operator : SJ/JU  
Sample : I4693-01  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

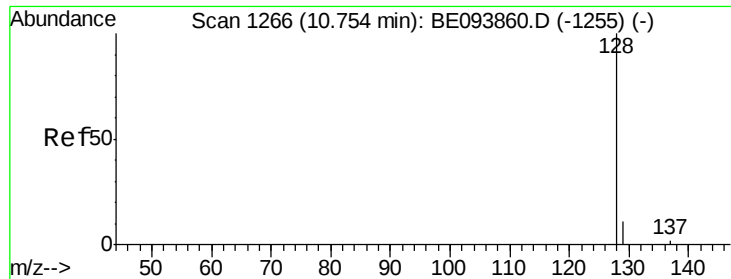
Instrument :  
BNA\_E  
ClientSampleId :  
C1B81

Manual Integrations  
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Quant Time: Aug 17 19:31:21 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 19:06:13 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.46 ng/ul

RT: 10.75 min Scan# 1266

Delta R.T. -0.00 min

Lab File: BE093863.D

Acq: 17 Aug 2017 13:18

Instrument :

BNA\_E

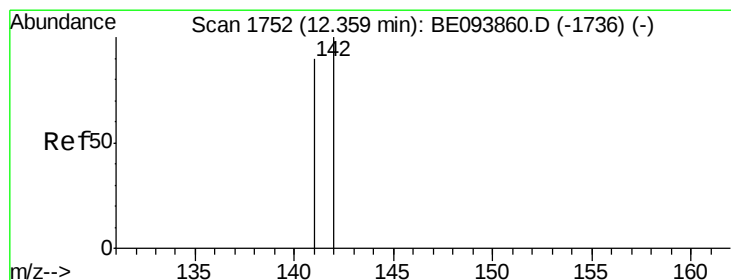
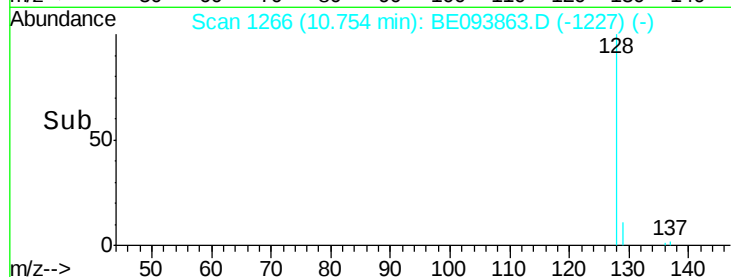
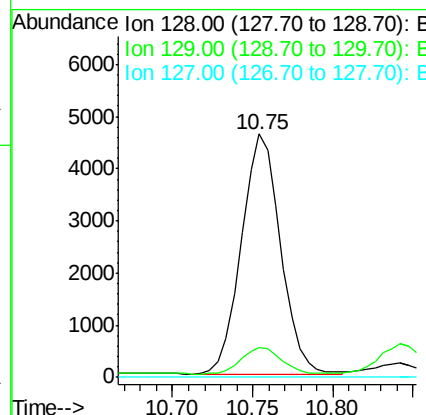
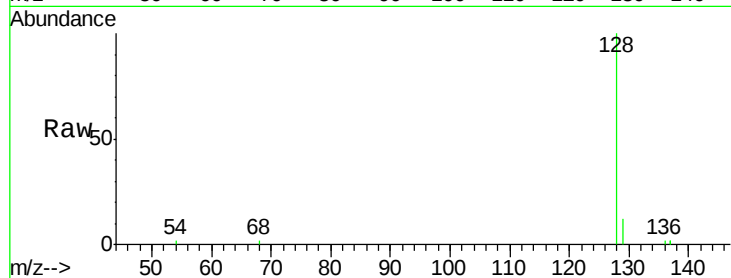
ClientSampleId :

C1B81

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 12.3  | 11.3  | 16.9  |
| 127     | 0.0   | 4.0   | 6.0   |

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#5

2-Methylnaphthalene

Concen: 0.91 ng/ul

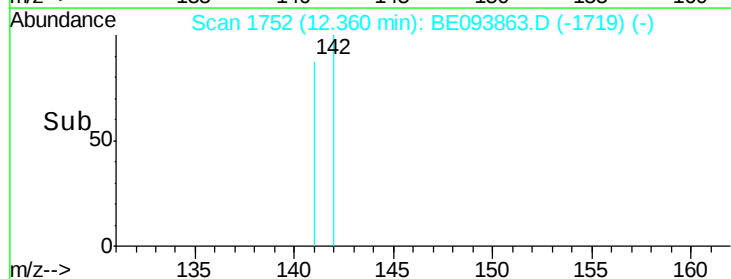
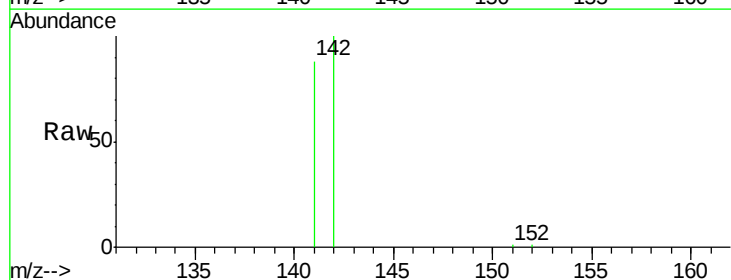
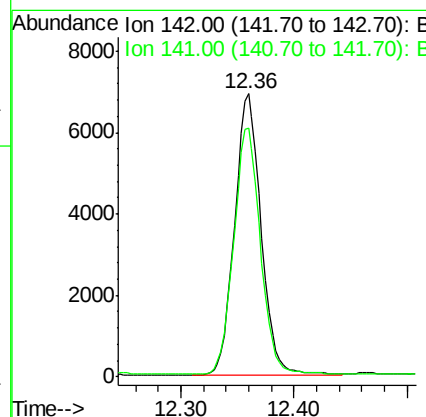
RT: 12.36 min Scan# 1752

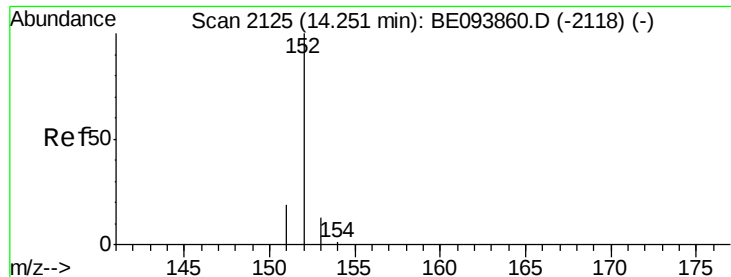
Delta R.T. 0.00 min

Lab File: BE093863.D

Acq: 17 Aug 2017 13:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.9  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 0.64 ng/ul

RT: 14.24 min Scan# 2124

Delta R.T. -0.01 min

Lab File: BE093863.D

Acq: 17 Aug 2017 13:18

Instrument :

BNA\_E

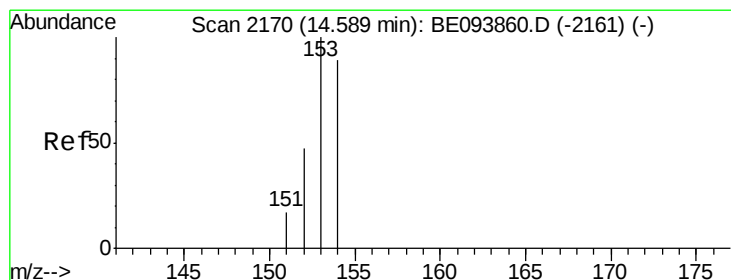
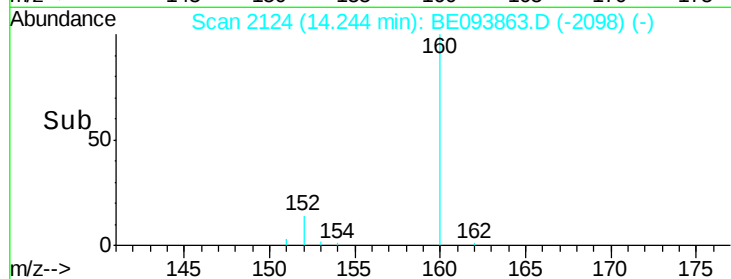
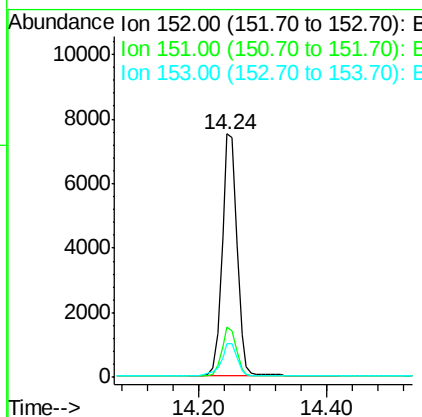
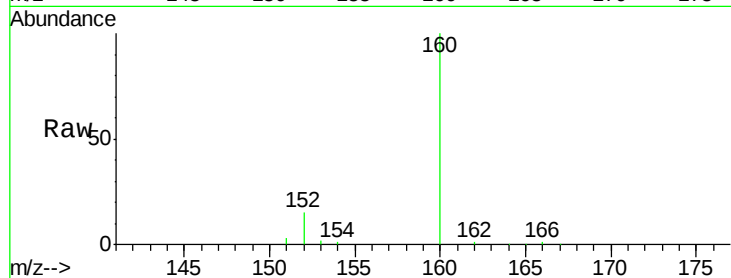
ClientSampled :

C1B81

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 12120 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 20.5  | 17.1  | 25.7  |
| 153       | 13.6  | 12.8  | 19.2  |

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#8

Acenaphthene

Concen: 1.21 ng/ul

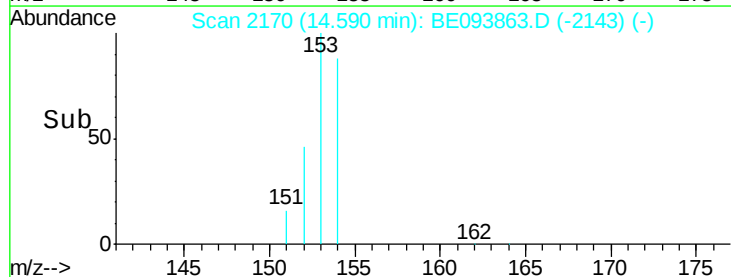
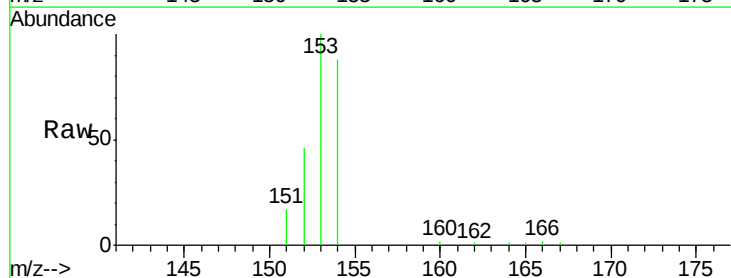
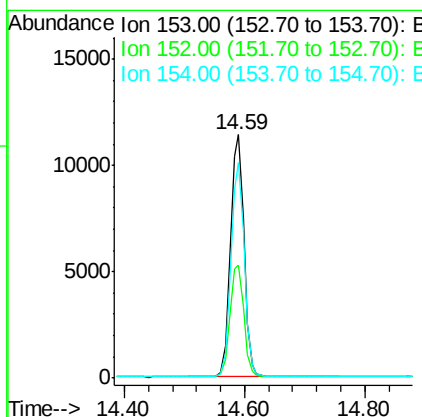
RT: 14.59 min Scan# 2170

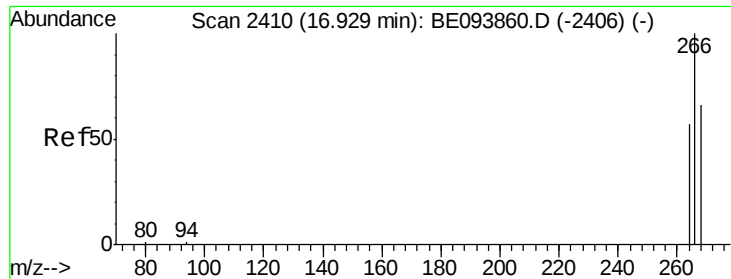
Delta R.T. 0.00 min

Lab File: BE093863.D

Acq: 17 Aug 2017 13:18

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 18015 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 46.3  | 40.3  | 60.5  |
| 154       | 88.5  | 71.4  | 107.2 |





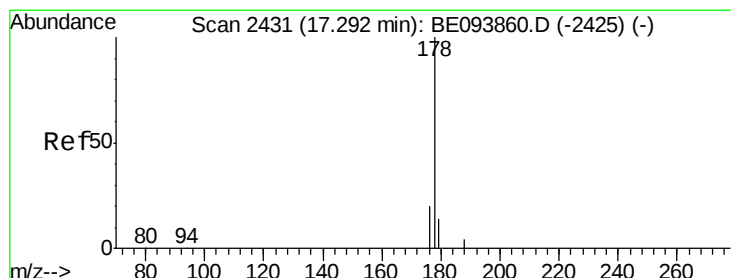
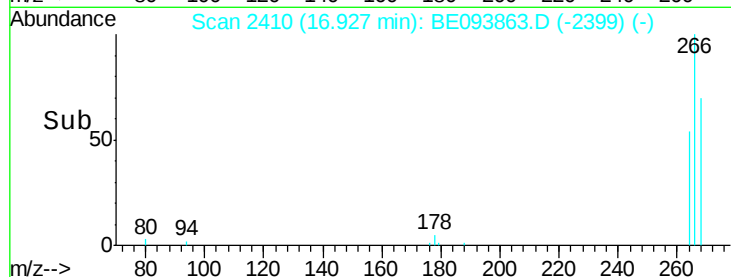
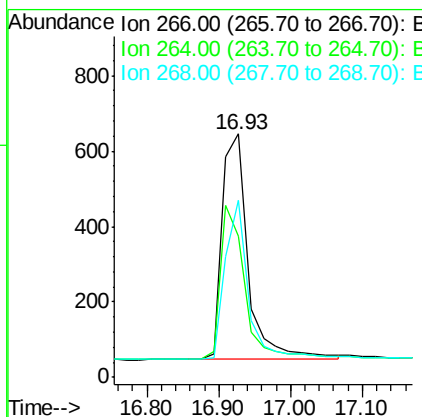
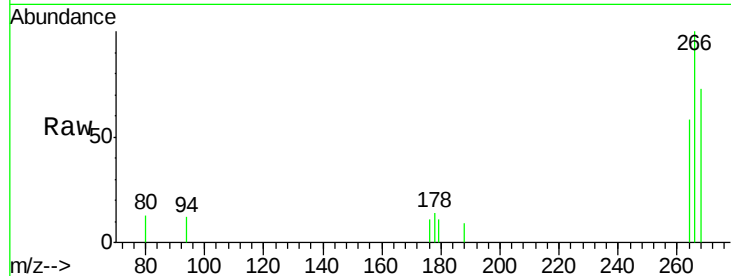
#11  
 Pentachlorophenol  
 Concen: 0.99 ng/ul  
 RT: 16.93 min Scan# 2410  
 Delta R.T. -0.00 min  
 Lab File: BE093863.D  
 Acq: 17 Aug 2017 13:18

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C1B81

| Tgt Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 266     | 100   | 1505 |       |       |
| 264     | 63.5  | 47.9 | 71.9  |       |
| 268     | 62.9  | 49.8 | 74.8  |       |

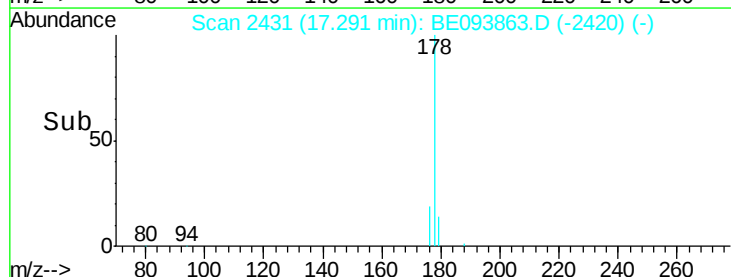
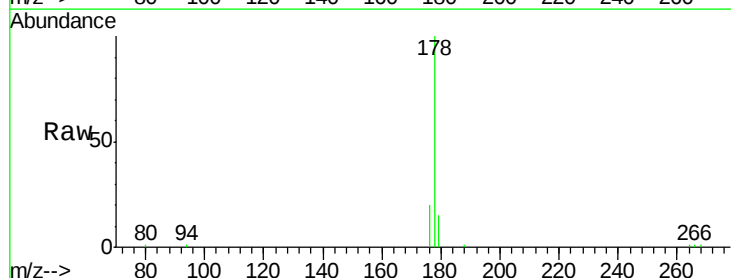
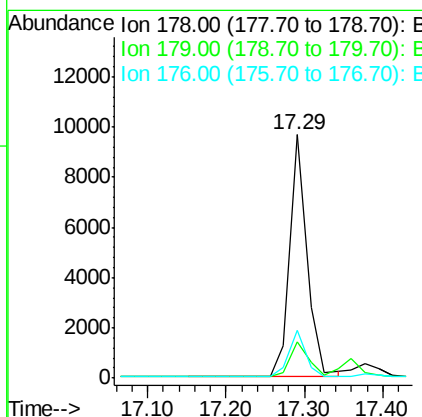
Manual Integrations  
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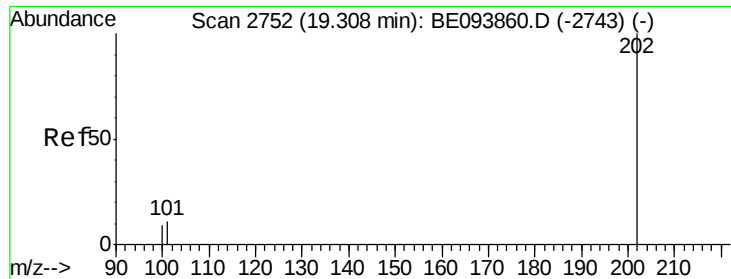
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#12  
 Phenanthrene  
 Concen: 0.58 ng/ul  
 RT: 17.29 min Scan# 2431  
 Delta R.T. -0.00 min  
 Lab File: BE093863.D  
 Acq: 17 Aug 2017 13:18

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 178     | 100   | 14554 |       |       |
| 179     | 15.1  | 18.4  | 27.6  |       |
| 176     | 19.6  | 13.6  | 20.4  |       |





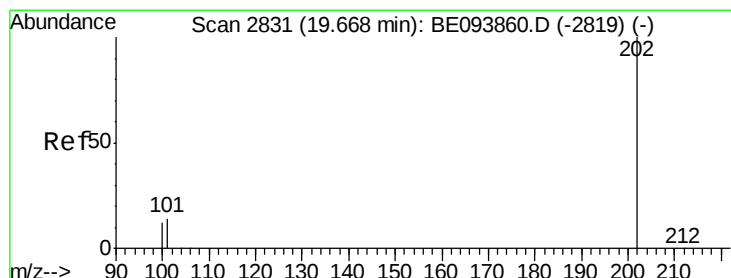
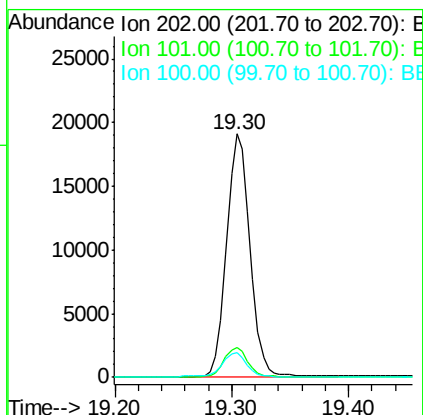
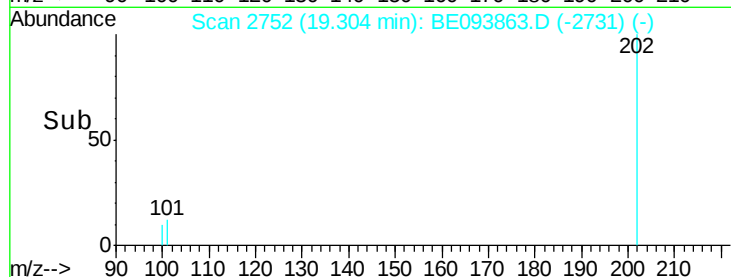
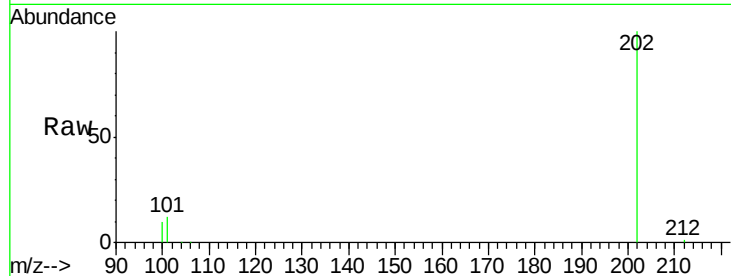
#15  
Fluoranthene  
Concen: 0.84 ng/ul  
RT: 19.30 min Scan# 2752  
Delta R.T. -0.00 min  
Lab File: BE093863.D  
Acq: 17 Aug 2017 13:18

Instrument :  
BNA\_E  
ClientSampled :  
C1B81

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 26332 |       |       |
| 101     | 12.4  | 0.0   | 30.3  |       |
| 100     | 10.0  | 0.0   | 39.5  |       |

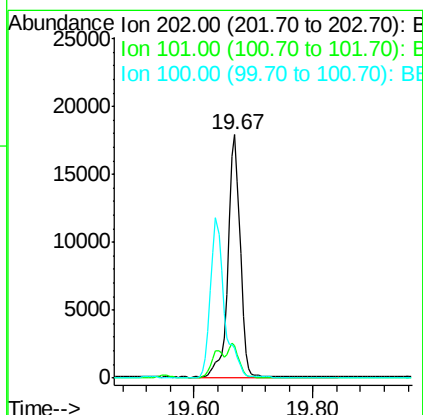
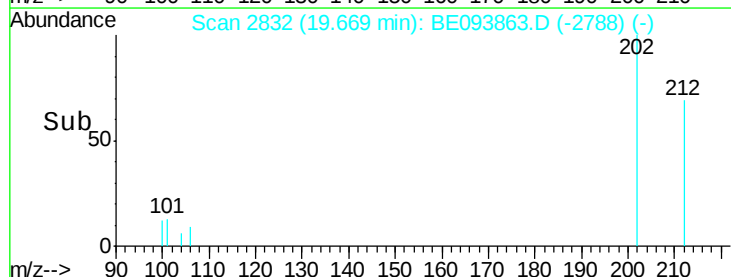
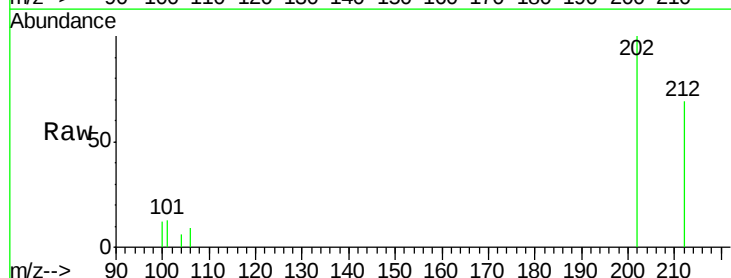
Manual Integrations  
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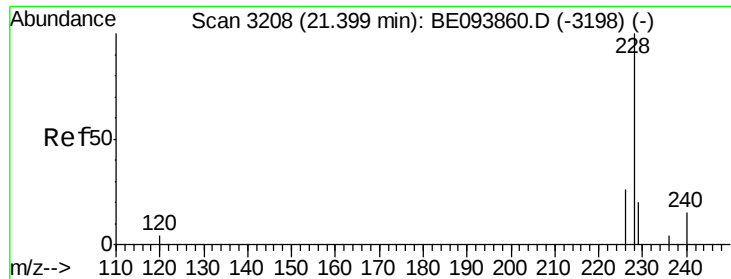
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#17  
Pyrene  
Concen: 0.93 ng/ul  
RT: 19.67 min Scan# 2832  
Delta R.T. 0.00 min  
Lab File: BE093863.D  
Acq: 17 Aug 2017 13:18

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 25159 |       |       |
| 101     | 13.4  | 18.2  | 27.4# |       |
| 100     | 12.4  | 15.6  | 23.4# |       |





#18

Benzo(a)anthracene

Concen: 0.52 ng/ul

RT: 21.40 min Scan# 3208

Delta R.T. -0.00 min

Lab File: BE093863.D

Acq: 17 Aug 2017 13:18

Instrument :

BNA\_E

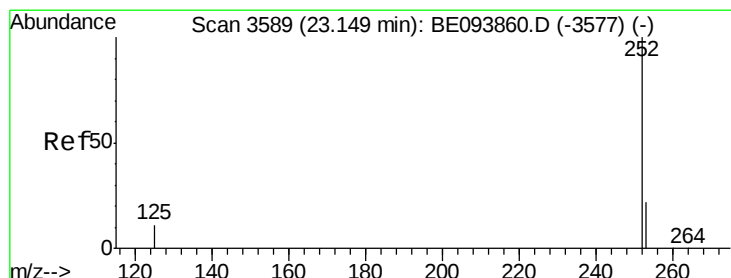
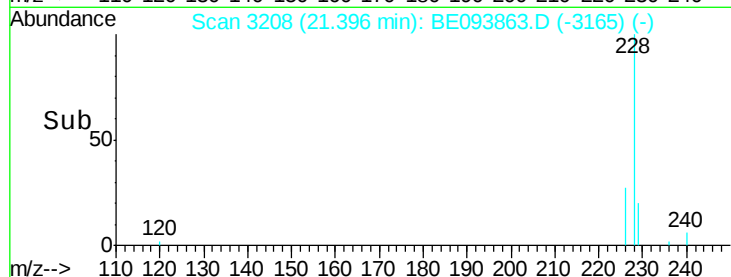
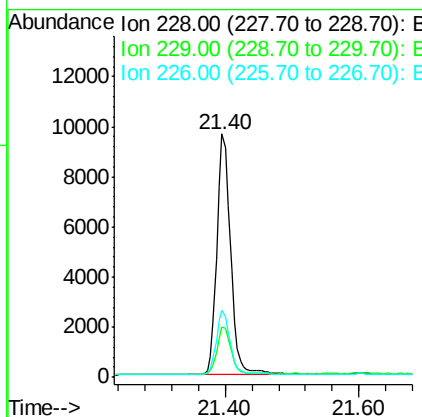
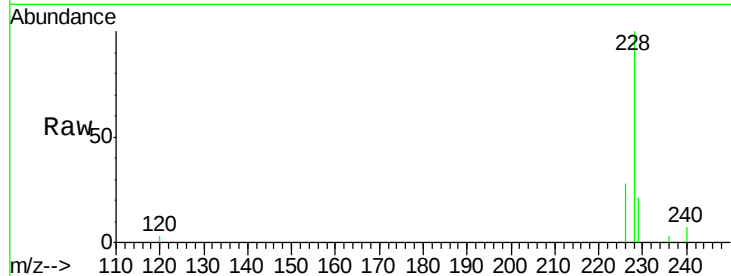
ClientSampleId :

C1B81

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 228  | Resp: | 13951 |
| Ion Ratio |      | Lower | Upper |
| 228       | 100  |       |       |
| 229       | 20.9 | 22.8  | 34.2# |
| 226       | 27.6 | 17.0  | 25.6# |

Manual Integrations  
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#21

Benzo(b)fluoranthene

Concen: 0.62 ng/ul

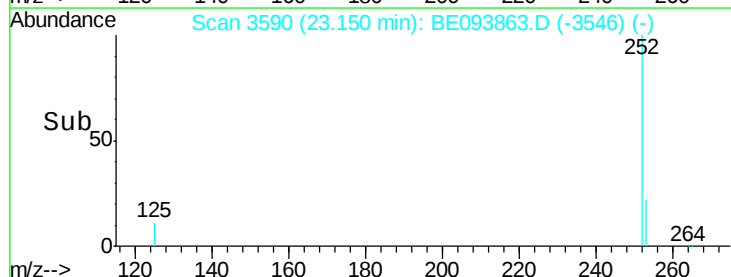
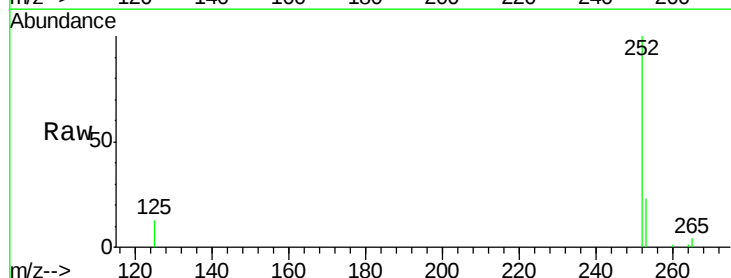
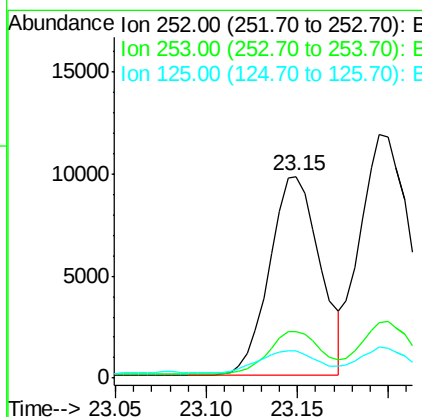
RT: 23.15 min Scan# 3590

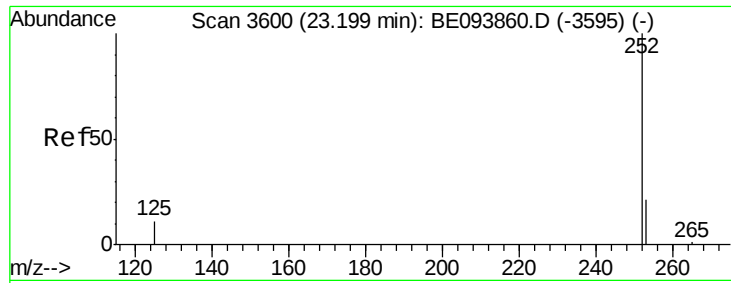
Delta R.T. 0.00 min

Lab File: BE093863.D

Acq: 17 Aug 2017 13:18

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 252  | Resp: | 18906 |
| Ion Ratio |      | Lower | Upper |
| 252       | 100  |       |       |
| 253       | 23.3 | 0.0   | 64.2  |
| 125       | 13.5 | 0.0   | 35.0  |





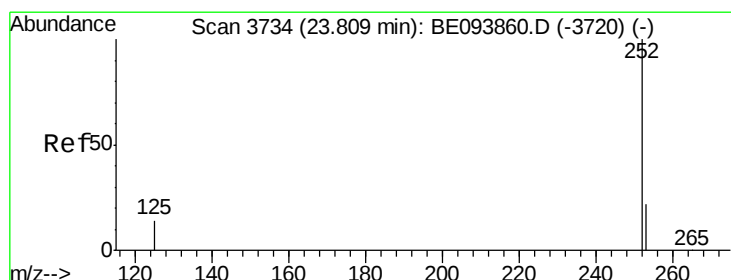
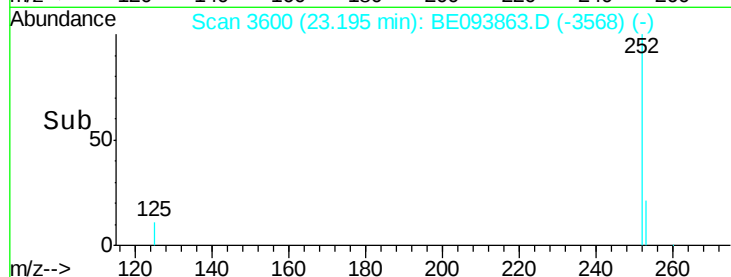
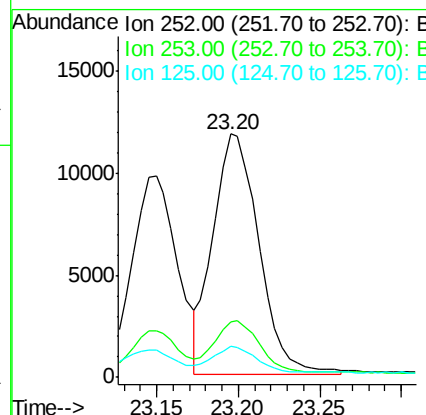
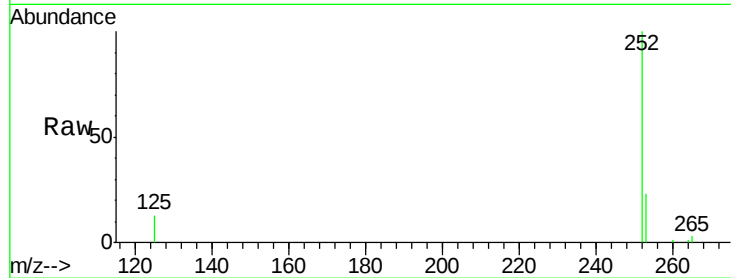
#22  
Benzo(k)fluoranthene  
Concen: 0.78 ng/ul m  
RT: 23.20 min Scan# 3600  
Delta R.T. -0.00 min  
Lab File: BE093863.D  
Acq: 17 Aug 2017 13:18

Instrument :  
BNA\_E  
ClientSampleId :  
C1B81

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.9  | 24.5  | 36.7# |
| 125     | 12.8  | 13.7  | 20.5# |

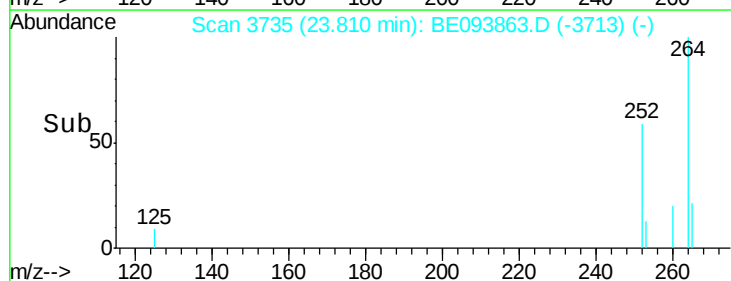
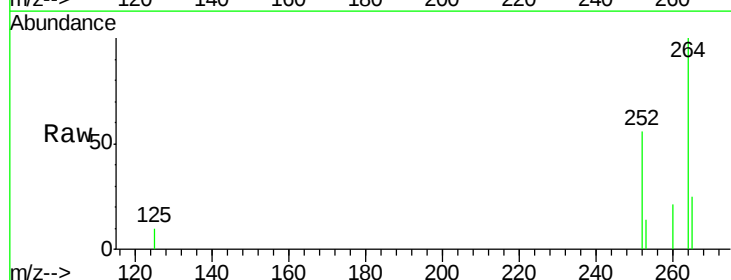
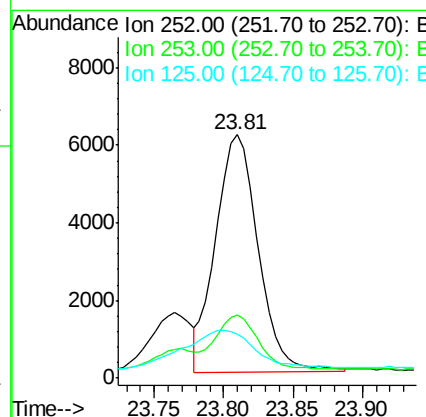
Manual Integrations  
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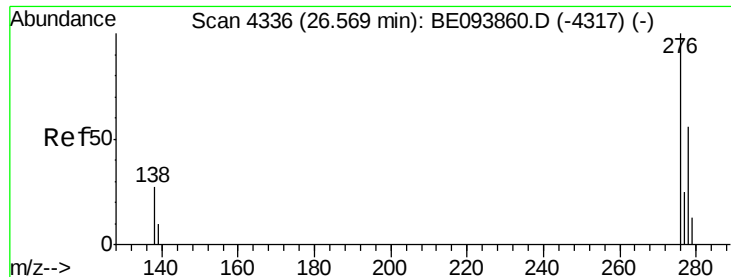
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#23  
Benzo(a)pyrene  
Concen: 0.45 ng/ul m  
RT: 23.81 min Scan# 3735  
Delta R.T. 0.00 min  
Lab File: BE093863.D  
Acq: 17 Aug 2017 13:18

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.8  | 28.5  | 42.7# |
| 125     | 18.2  | 18.1  | 27.1  |





#24

Indeno(1,2,3-cd)pyrene

Concen: 0.60 ng/ul m

RT: 26.57 min Scan# 4338

Delta R.T. 0.00 min

Lab File: BE093863.D

Acq: 17 Aug 2017 13:18

Instrument :

BNA\_E

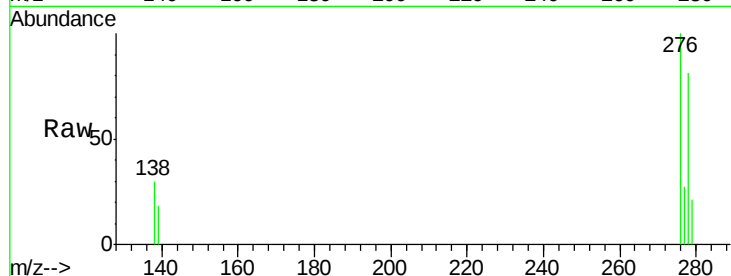
ClientSampleId :

C1B81

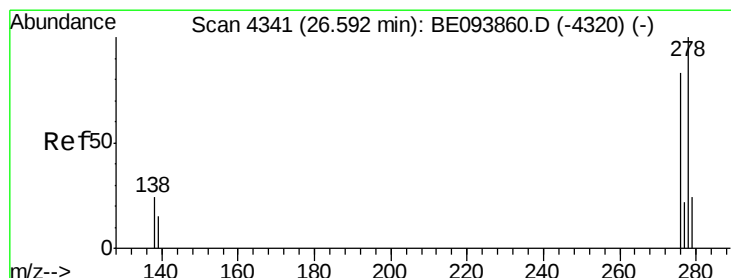
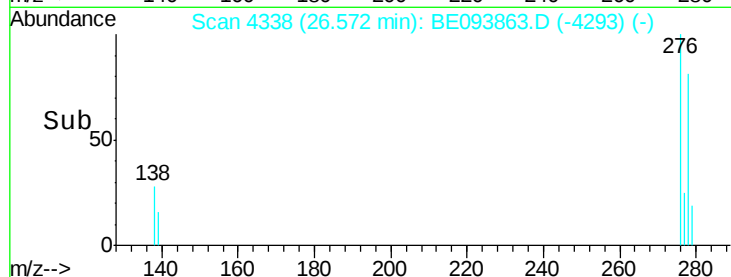
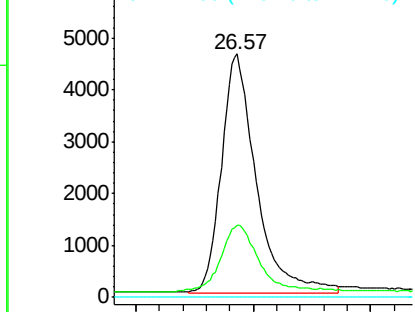
|           |     |       |       |
|-----------|-----|-------|-------|
| Tgt Ion:  | 276 | Resp: | 19195 |
| Ion Ratio |     | Lower | Upper |
| 276       | 100 |       |       |
| 138       | 0.0 | 28.0  | 42.0# |
| 227       | 0.0 | 8.0   | 12.0# |

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 227.00 (226.70 to 227.70): E



#25

Dibenzo(a,h)anthracene

Concen: 0.74 ng/ul m

RT: 26.59 min Scan# 4342

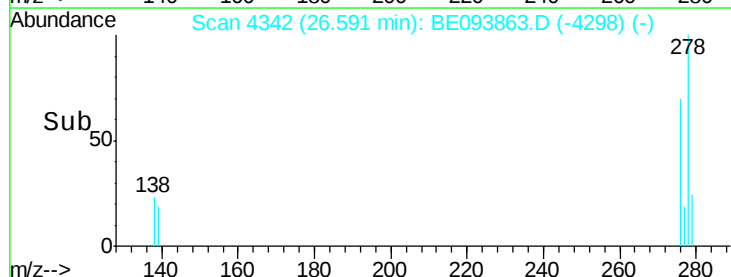
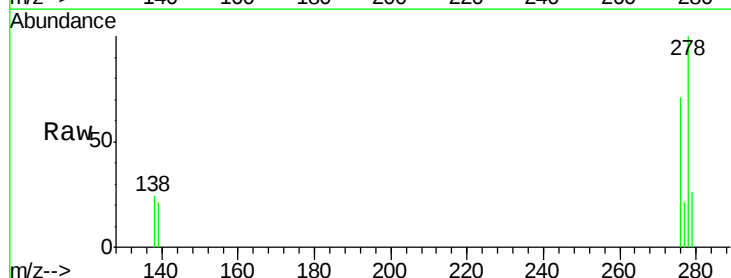
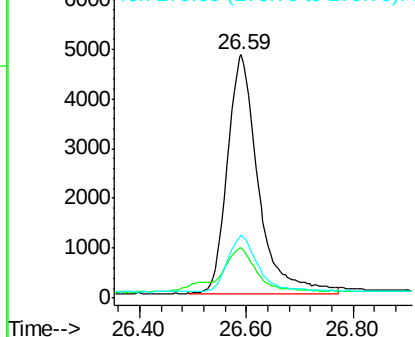
Delta R.T. -0.00 min

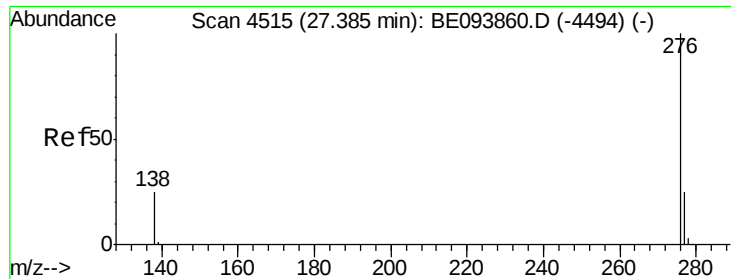
Lab File: BE093863.D

Acq: 17 Aug 2017 13:18

|           |      |       |       |
|-----------|------|-------|-------|
| Tgt Ion:  | 278  | Resp: | 19591 |
| Ion Ratio |      | Lower | Upper |
| 278       | 100  |       |       |
| 139       | 20.7 | 17.4  | 26.0  |
| 279       | 25.7 | 25.9  | 38.9# |

Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#26  
 Benzo(g,h,i)perylene  
 Concen: 0.75 ng/ul m  
 RT: 27.39 min Scan# 4518  
 Delta R.T. 0.01 min  
 Lab File: BE093863.D  
 Acq: 17 Aug 2017 13:18

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C1B81

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.8  | 21.8  | 32.8  |
| 277     | 25.2  | 20.5  | 30.7  |

Manual Integrations  
 APPROVED

Sohil  
 8/18/2017 7:08:32 PM

