

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE101117\  
 Data File : BE094296.D  
 Acq On : 12 Oct 2017 1:22  
 Operator : SJ/JU  
 Sample : I5490-07  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-41(5-7)-092717

Manual Integrations  
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Sohil  
 10/13/2017 12:05:56 PM

Quant Time: Oct 12 09:14:48 2017  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE092017.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 12 08:55:52 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.92  | 152  | 1740     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.71 | 136  | 8619     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.54 | 164  | 5092     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.27 | 188  | 10774m   | 0.40   | ng/ul  | 0.02     |
| 16) Chrysene-d12            | 21.44 | 240  | 9796     | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.97 | 264  | 9189m    | 0.40   | ng/ul  | 0.02     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.30 | 152  | 4276     | 0.32   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.29 | 212  | 9867     | 0.27   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.76 | 128  | 1473     | 0.070  | ng/ul# | 88       |
| 5) 2-Methylnaphthalene      | 12.37 | 142  | 506      | 0.037  | ng/ul  | 97       |
| 7) Acenaphthylene           | 14.26 | 152  | 1264     | 0.064  | ng/ul# | 78       |
| 8) Acenaphthene             | 14.60 | 153  | 559      | 0.034  | ng/ul  | 93       |
| 9) Fluorene                 | 15.58 | 166  | 589      | 0.031  | ng/ul# | 70       |
| 12) Phenanthrene            | 17.31 | 178  | 19556    | 0.695  | ng/ul# | 91       |
| 13) Anthracene              | 17.39 | 178  | 5611     | 0.205  | ng/ul# | 82       |
| 15) Fluoranthene            | 19.33 | 202  | 64343    | 1.739  | ng/ul  | 84       |
| 17) Pyrene                  | 19.69 | 202  | 70319    | 2.580  | ng/ul# | 80       |
| 18) Benzo(a)anthracene      | 21.42 | 228  | 48910    | 1.882  | ng/ul# | 89       |
| 19) Chrysene                | 21.47 | 228  | 47272    | 1.575  | ng/ul# | 84       |
| 21) Benzo(b)fluoranthene    | 23.20 | 252  | 50623    | 2.028  | ng/ul# | 69       |
| 22) Benzo(k)fluoranthene    | 23.24 | 252  | 21603m   | 0.749  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.86 | 252  | 41488m   | 1.599  | ng/ul  |          |
| 24) Indeno(1,2,3-cd)pyrene  | 26.66 | 276  | 21566m   | 0.813  | ng/ul  |          |
| 25) Dibenzo(a,h)anthracene  | 26.66 | 278  | 5926m    | 0.266  | ng/ul  |          |
| 26) Benzo(a,h,i)perylene    | 27.51 | 276  | 16316m   | 0.713  | ng/ul  |          |

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

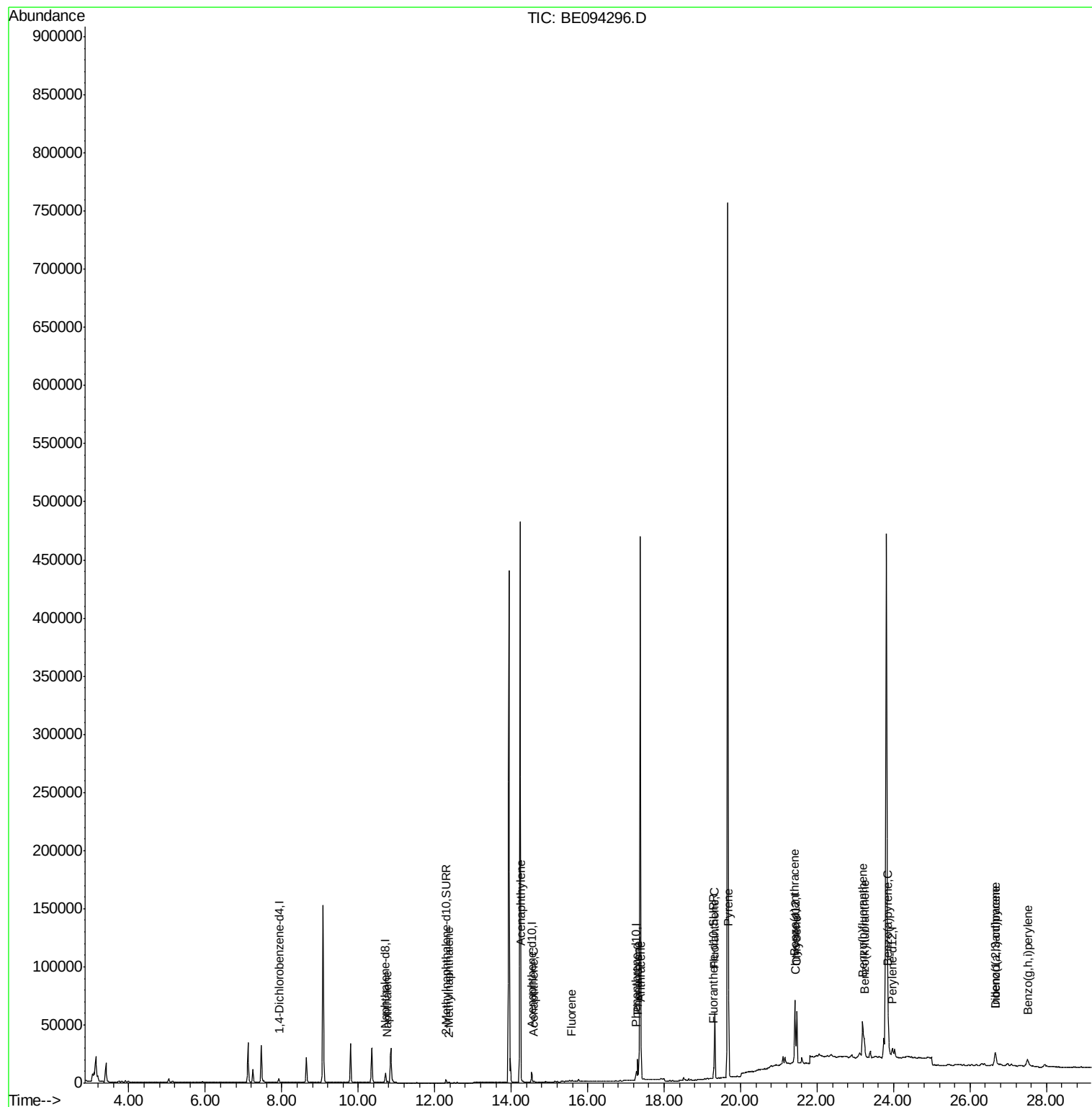
Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA E\DATA\BE101117\  
Data File : BE094296.D  
Acq On : 12 Oct 2017 1:22  
Operator : SJ/JU  
Sample : I5490-07  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

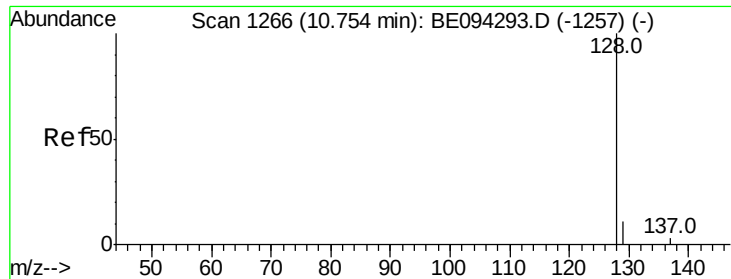
Instrument :  
BNA\_E  
ClientSampleId :  
B-41(5-7)-092717

Manual Integrations  
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Quant Time: Oct 12 09:14:48 2017  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE092017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Thu Oct 12 08:55:52 2017  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.070 ng/ul

RT: 10.76 min Scan# 1267

Delta R.T. 0.00 min

Lab File: BE094296.D

Acq: 12 Oct 2017 1:22

Instrument :

BNA\_E

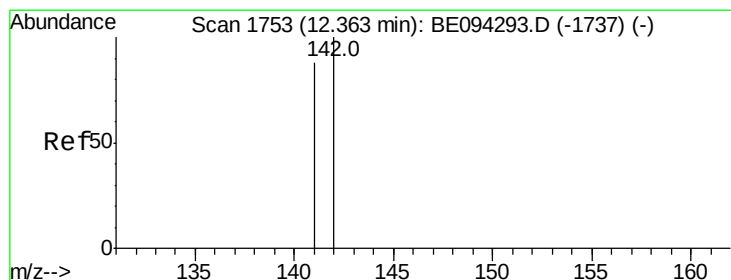
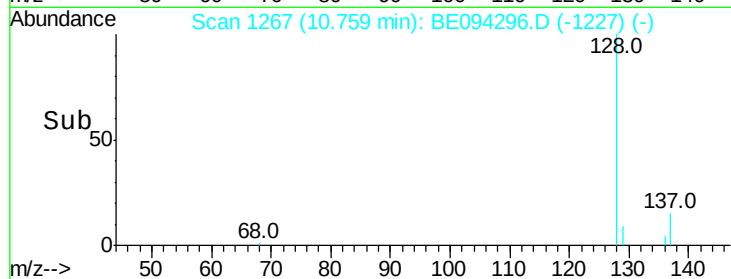
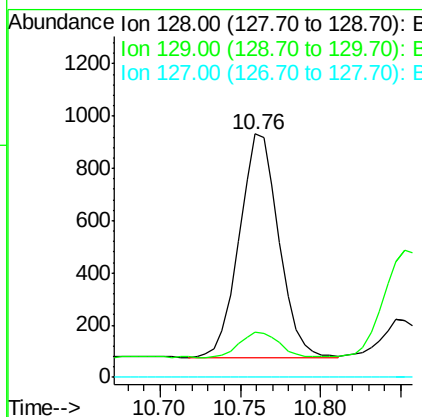
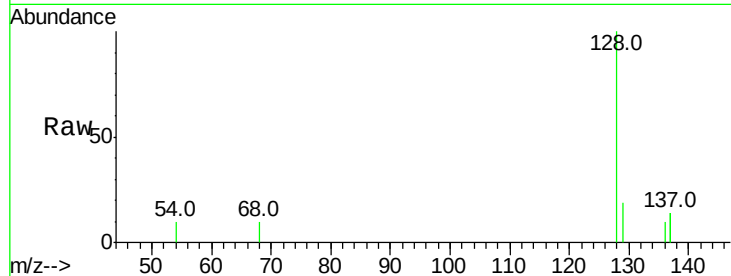
ClientSampleId :

B-41(5-7)-092717

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 1473  |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 18.7  | 11.3  | 16.9# |
| 127       | 0.0   | 4.0   | 6.0#  |

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#5

2-Methylnaphthalene

Concen: 0.037 ng/ul

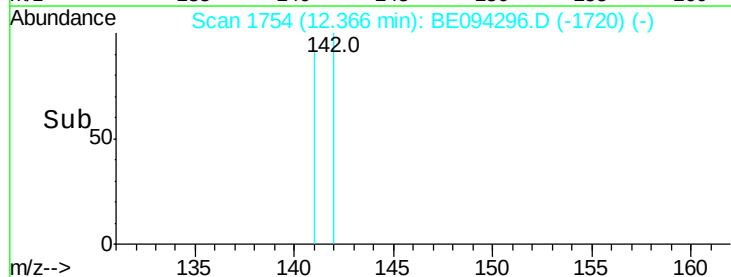
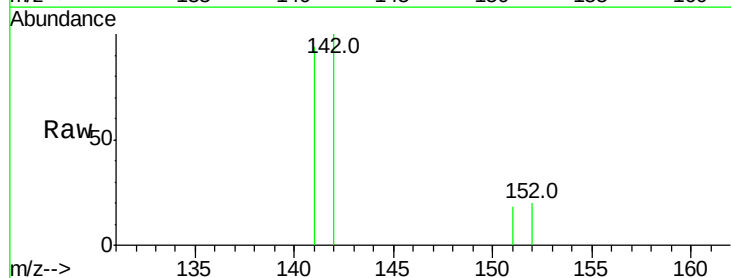
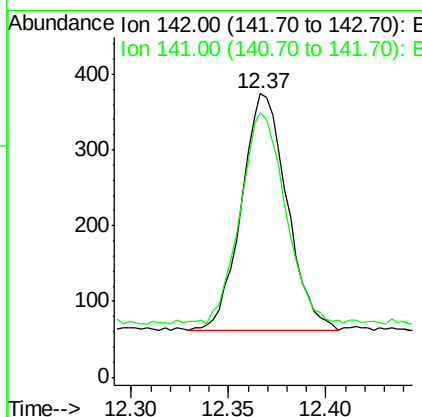
RT: 12.37 min Scan# 1754

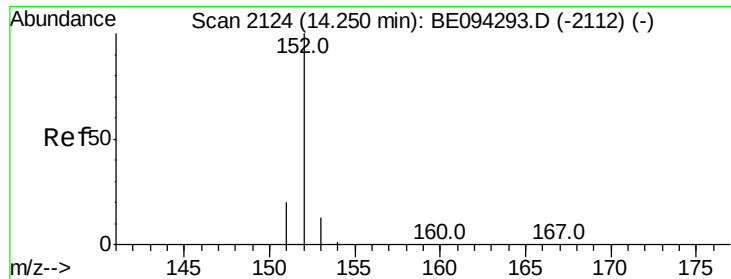
Delta R.T. 0.00 min

Lab File: BE094296.D

Acq: 12 Oct 2017 1:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 506   |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 87.7  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 0.064 ng/ul

RT: 14.26 min Scan# 2126

Delta R.T. 0.01 min

Lab File: BE094296.D

Acq: 12 Oct 2017 1:22

Instrument :

BNA\_E

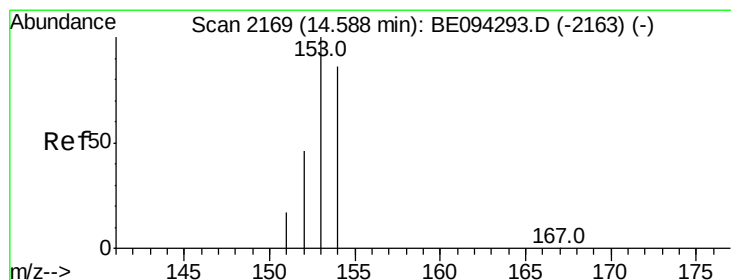
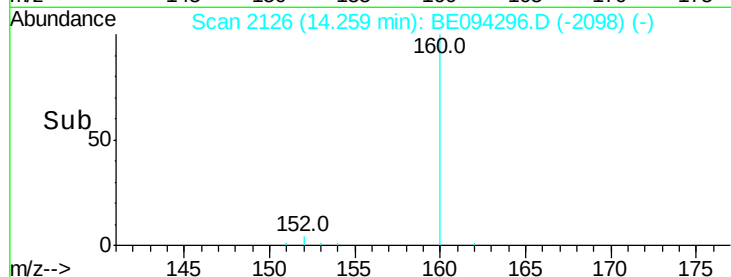
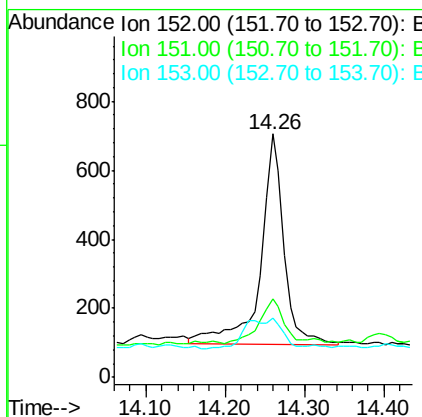
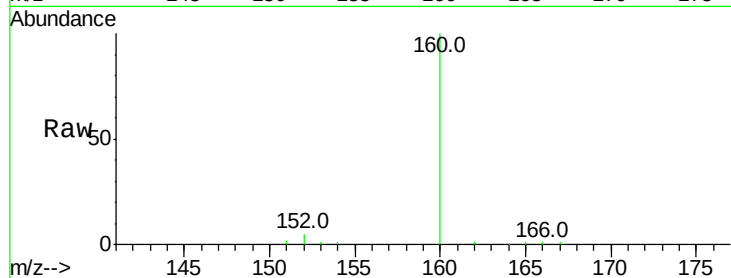
ClientSampleId :

B-41(5-7)-092717

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 1264  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 32.4  | 17.1  | 25.7# |
| 153       | 24.2  | 12.8  | 19.2# |

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#8

Acenaphthene

Concen: 0.034 ng/ul

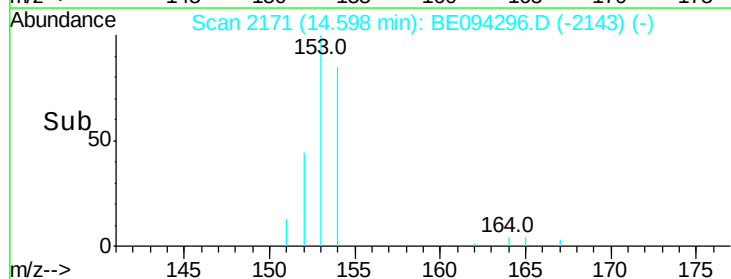
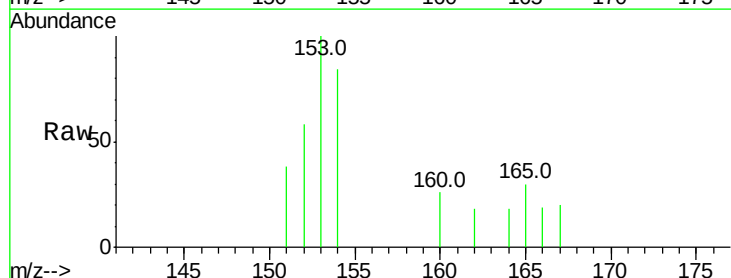
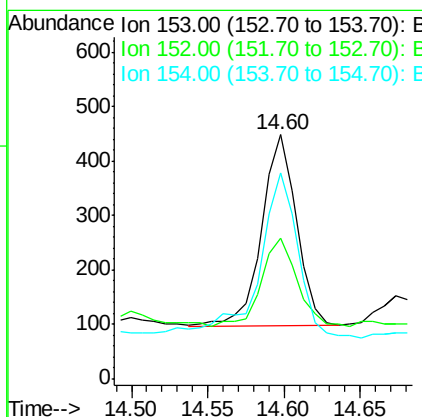
RT: 14.60 min Scan# 2171

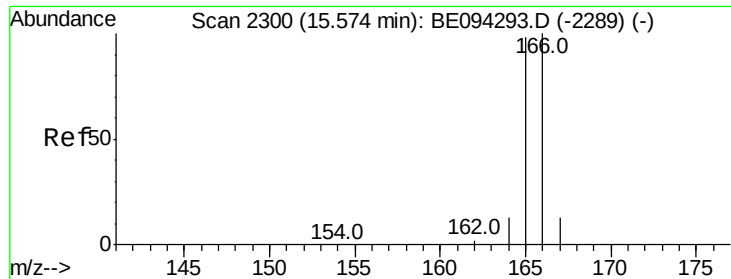
Delta R.T. 0.01 min

Lab File: BE094296.D

Acq: 12 Oct 2017 1:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 559   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 57.6  | 40.3  | 60.5  |
| 154       | 84.2  | 71.4  | 107.2 |





#9

Fluorene

Concen: 0.031 ng/ul

RT: 15.58 min Scan# 2302

Delta R.T. 0.01 min

Lab File: BE094296.D

Acq: 12 Oct 2017 1:22

Instrument :

BNA\_E

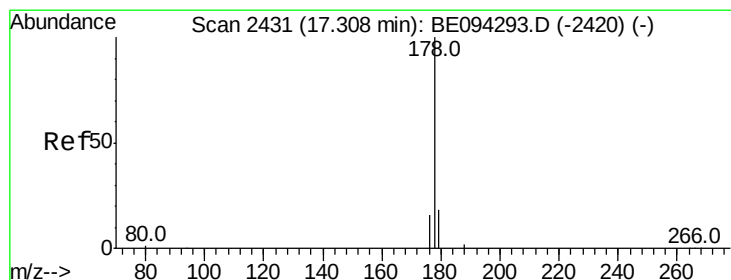
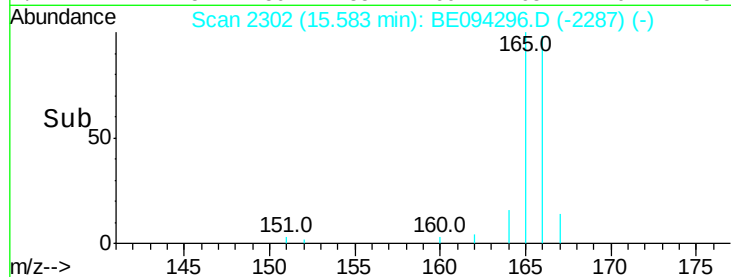
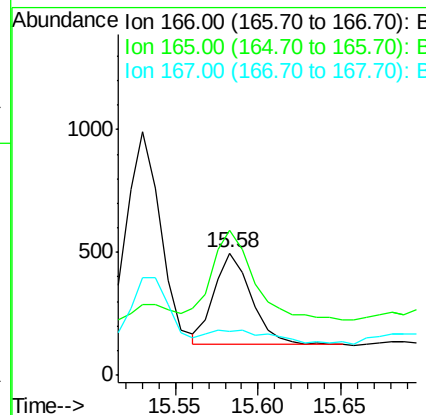
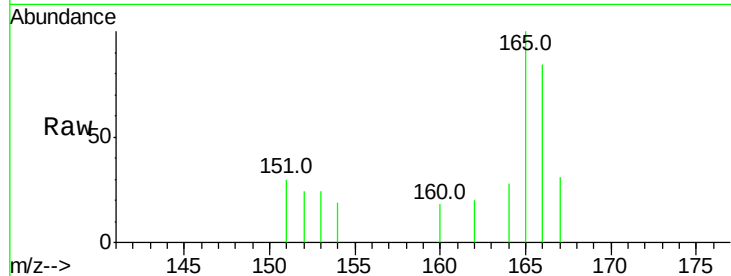
ClientSampleId :

B-41(5-7)-092717

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 166   | Resp: | 589    |
| Ion Ratio | Lower | Upper |        |
| 166       | 100   |       |        |
| 165       | 118.5 | 73.4  | 110.2# |
| 167       | 36.2  | 14.6  | 22.0#  |

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#12

Phenanthrene

Concen: 0.695 ng/ul

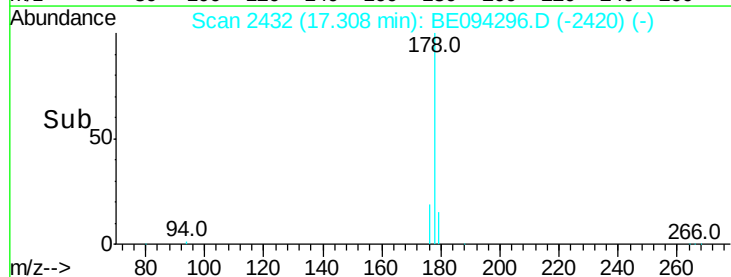
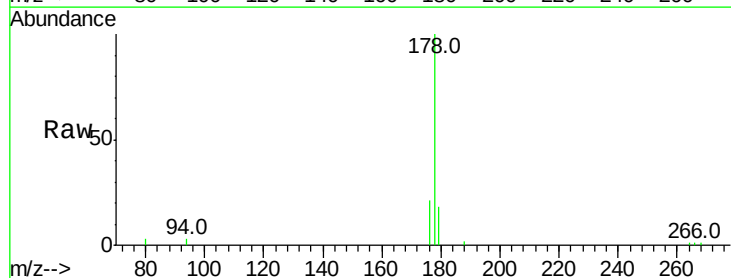
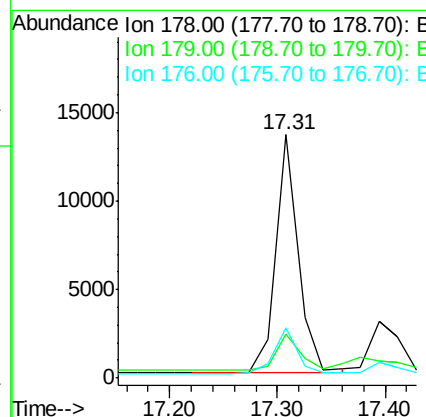
RT: 17.31 min Scan# 2432

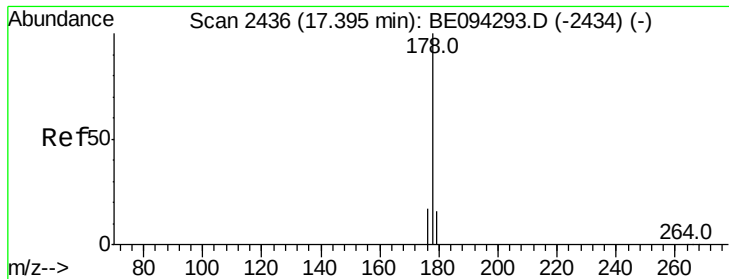
Delta R.T. -0.00 min

Lab File: BE094296.D

Acq: 12 Oct 2017 1:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 19556 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 18.0  | 18.4  | 27.6# |
| 176       | 20.6  | 13.6  | 20.4# |





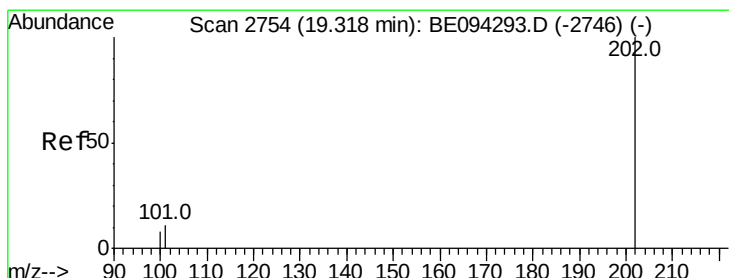
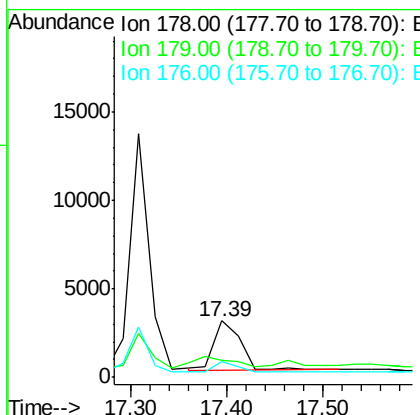
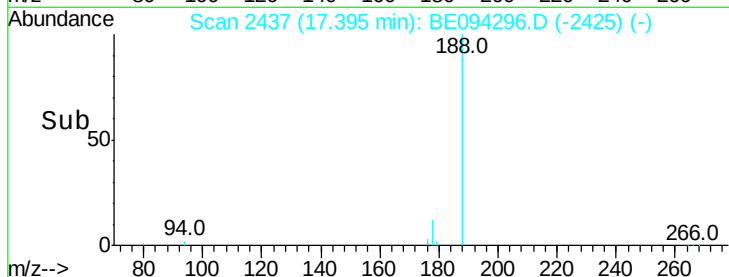
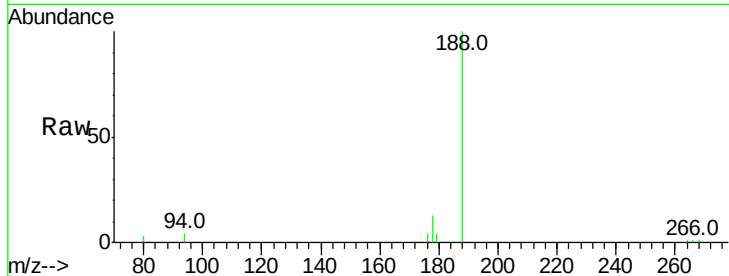
#13  
 Anthracene  
 Concen: 0.205 ng/ul  
 RT: 17.39 min Scan# 2437  
 Delta R.T. -0.00 min  
 Lab File: BE094296.D  
 Acq: 12 Oct 2017 1:22

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-41(5-7)-092717

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 29.8  | 18.1  | 27.1# |
| 176     | 27.8  | 14.7  | 22.1# |

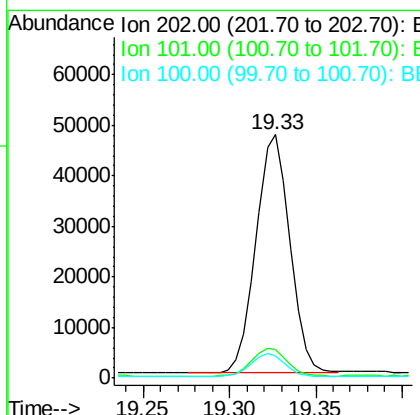
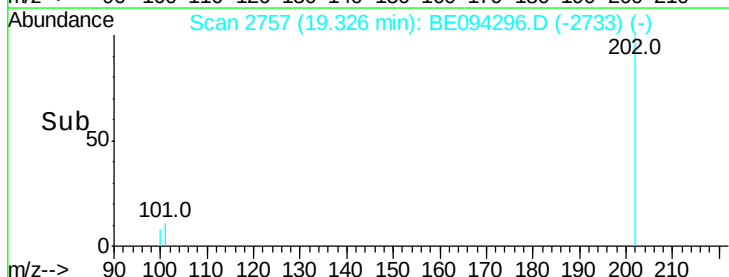
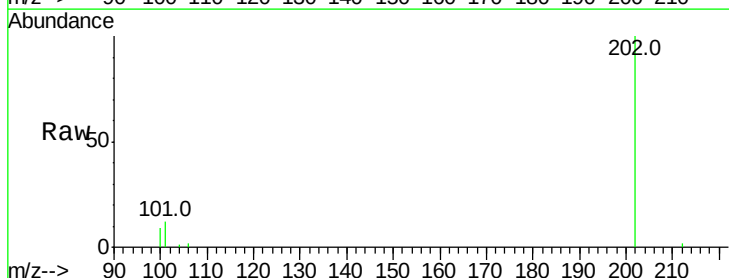
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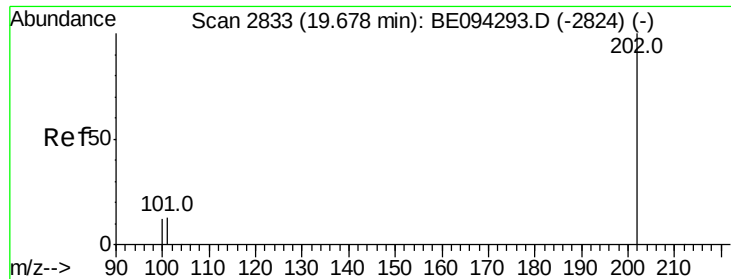
Sohil  
 10/13/2017 12:05:56 PM



#15  
 Fluoranthene  
 Concen: 1.739 ng/ul  
 RT: 19.33 min Scan# 2757  
 Delta R.T. 0.01 min  
 Lab File: BE094296.D  
 Acq: 12 Oct 2017 1:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.6  | 0.0   | 30.3  |
| 100     | 8.9   | 0.0   | 39.5  |





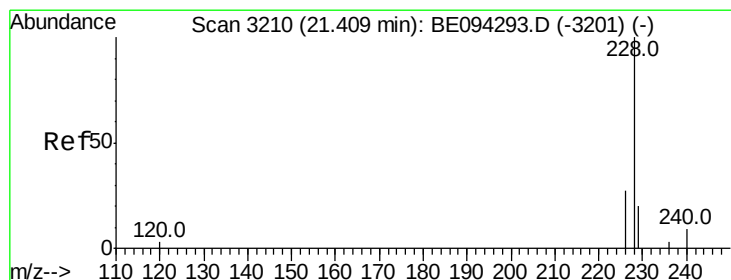
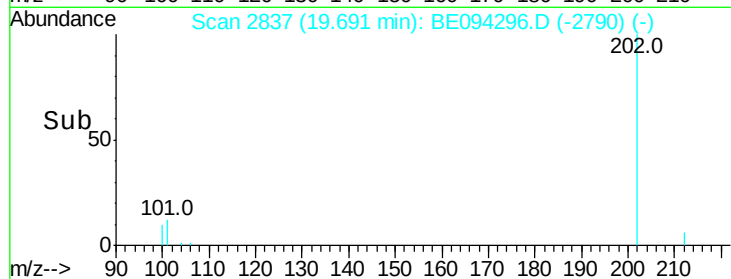
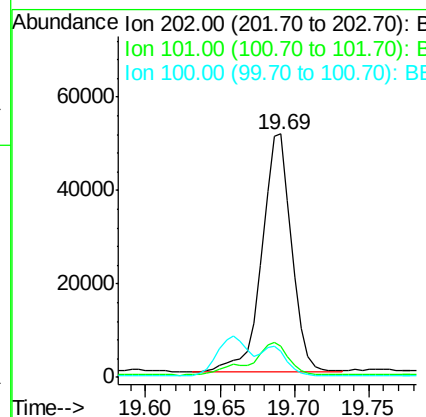
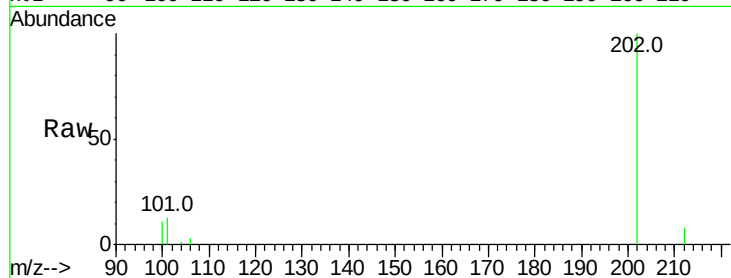
#17  
Pvrene  
Concen: 2.580 ng/ul  
RT: 19.69 min Scan# 2837  
Delta R.T. 0.01 min  
Lab File: BE094296.D  
Acq: 12 Oct 2017 1:22

Instrument :  
BNA\_E  
ClientSampleId :  
B-41(5-7)-092717

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 12.8  | 18.2       | 27.4# |
| 100     | 10.6  | 15.6       | 23.4# |

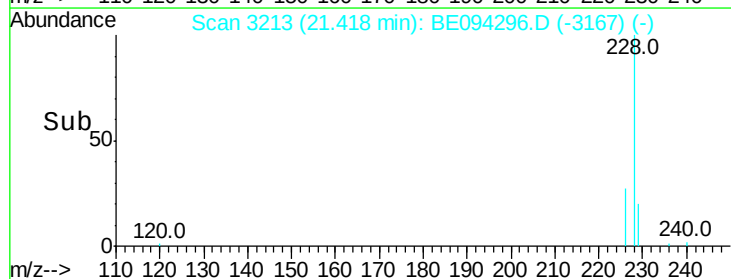
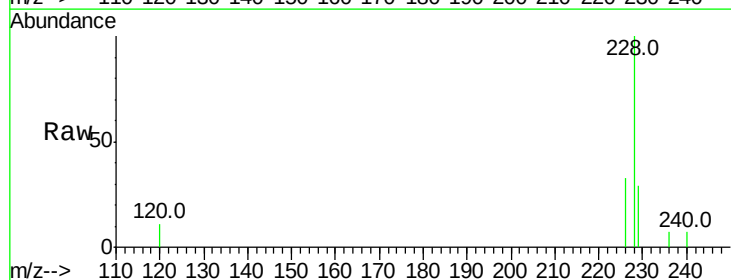
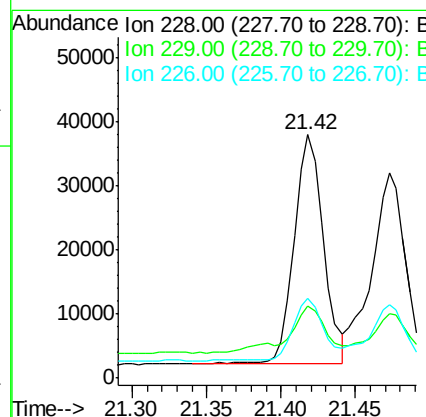
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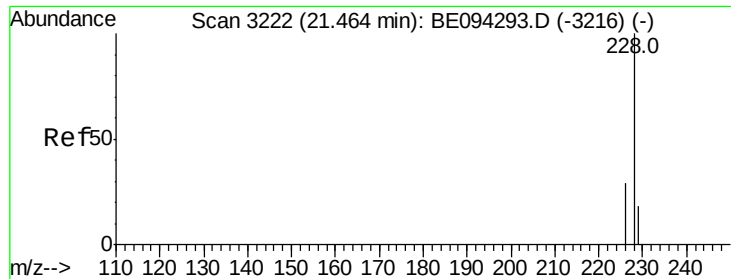
Sohil  
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#18  
Benzo(a)anthracene  
Concen: 1.882 ng/ul  
RT: 21.42 min Scan# 3213  
Delta R.T. 0.01 min  
Lab File: BE094296.D  
Acq: 12 Oct 2017 1:22

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 29.4  | 22.8       | 34.2  |
| 226     | 32.9  | 17.0       | 25.6# |





#19

Chrysene

Concen: 1.575 ng/ul

RT: 21.47 min Scan# 3225

Delta R.T. 0.01 min

Lab File: BE094296.D

Acq: 12 Oct 2017 1:22

Instrument :

BNA\_E

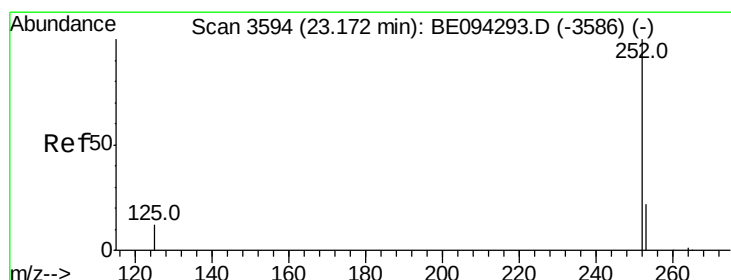
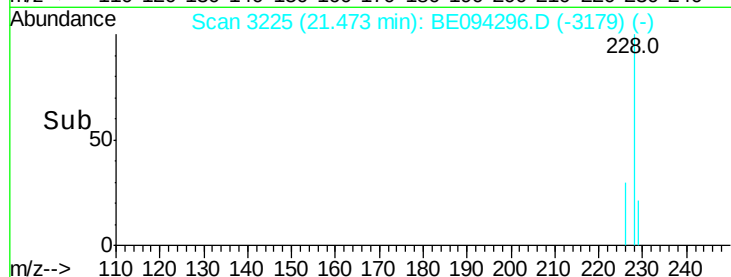
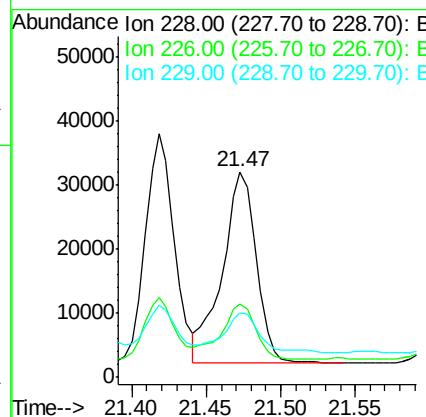
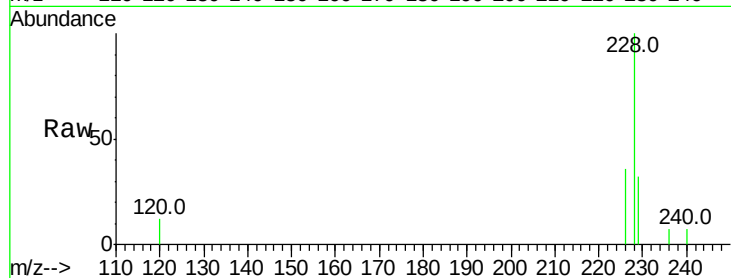
ClientSampleId :

B-41(5-7)-092717

|             |       |       |
|-------------|-------|-------|
| Tot Ion:228 | Resp: | 47272 |
| Ion Ratio   | Lower | Upper |
| 228 100     |       |       |
| 226 35.9    | 23.4  | 35.0# |
| 229 31.5    | 17.7  | 26.5# |

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#21

Benzo(b)fluoranthene

Concen: 2.028 ng/ul

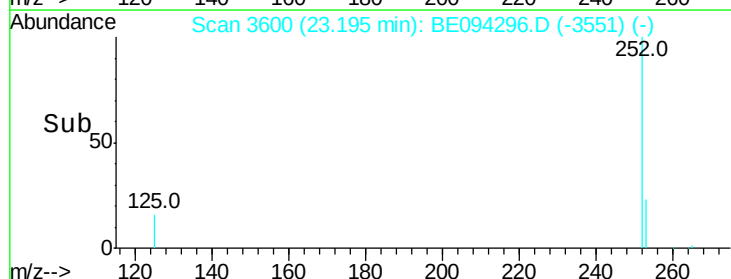
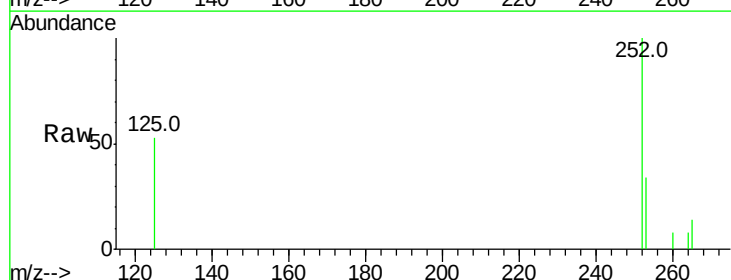
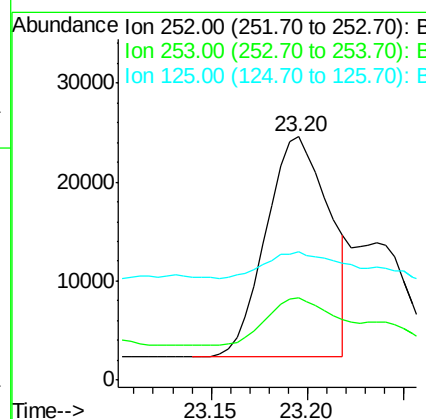
RT: 23.20 min Scan# 3600

Delta R.T. 0.02 min

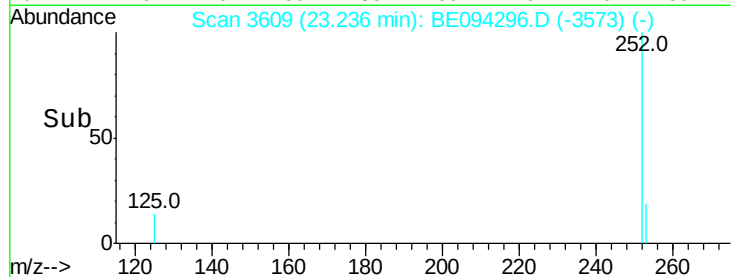
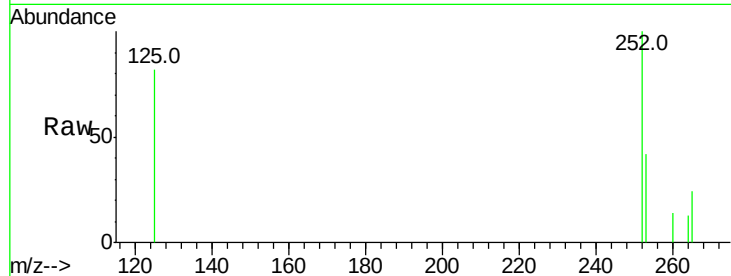
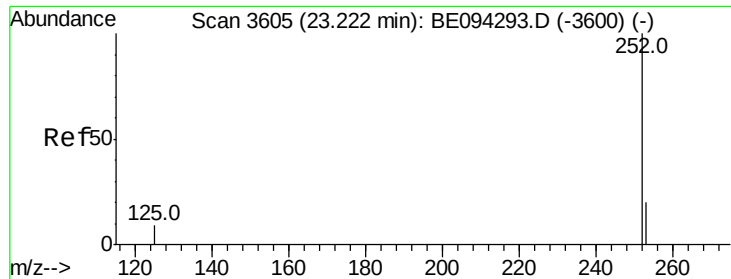
Lab File: BE094296.D

Acq: 12 Oct 2017 1:22

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:252 | Resp: | 50623 |
| Ion Ratio   | Lower | Upper |
| 252 100     |       |       |
| 253 33.8    | 0.0   | 64.2  |
| 125 52.9    | 0.0   | 35.0# |







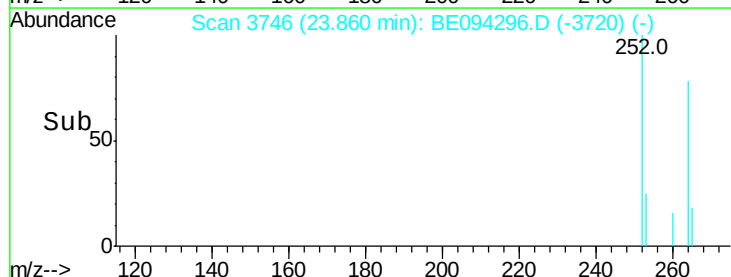
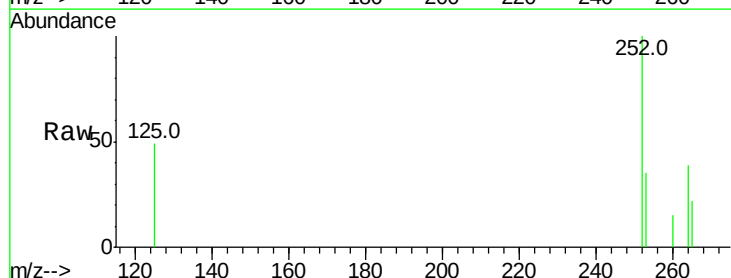
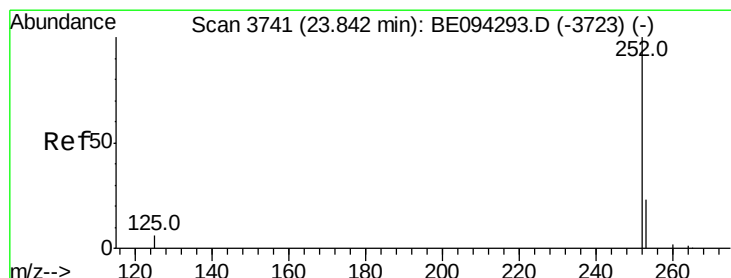
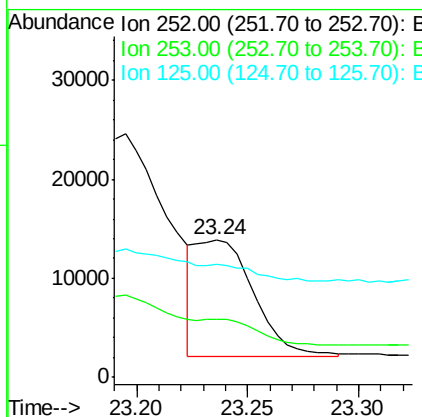
#22  
Benzo(k)fluoranthene  
Concen: 0.749 ng/ul m  
RT: 23.24 min Scan# 3609  
Delta R.T. 0.01 min  
Lab File: BE094296.D  
Acq: 12 Oct 2017 1:22

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 42.2  | 24.5  | 36.7# |
| 125     | 82.2  | 13.7  | 20.5# |

Instrument :  
BNA\_E  
ClientSampleId :  
B-41(5-7)-092717

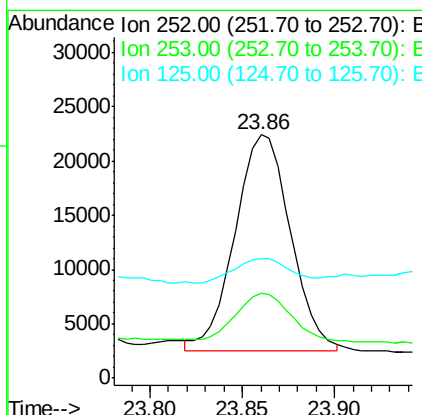
Manual Integrations  
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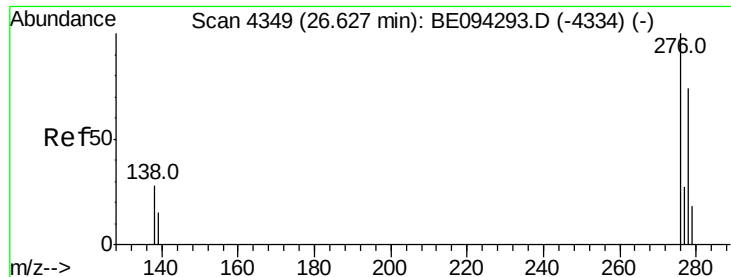
Sohil  
10/13/2017 12:05:56 PM



#23  
Benzo(a)pyrene  
Concen: 1.599 ng/ul m  
RT: 23.86 min Scan# 3746  
Delta R.T. 0.02 min  
Lab File: BE094296.D  
Acq: 12 Oct 2017 1:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 34.7  | 28.5  | 42.7  |
| 125     | 49.1  | 18.1  | 27.1# |





#24

Indeno(1,2,3-cd)pyrene

Concen: 0.813 ng/ul m

RT: 26.66 min Scan# 4358

Delta R.T. 0.04 min

Lab File: BE094296.D

Acq: 12 Oct 2017 1:22

Instrument :

BNA\_E

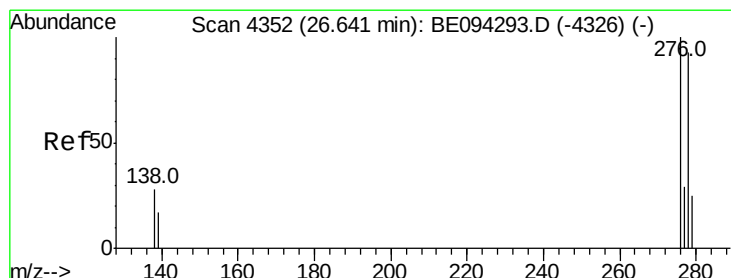
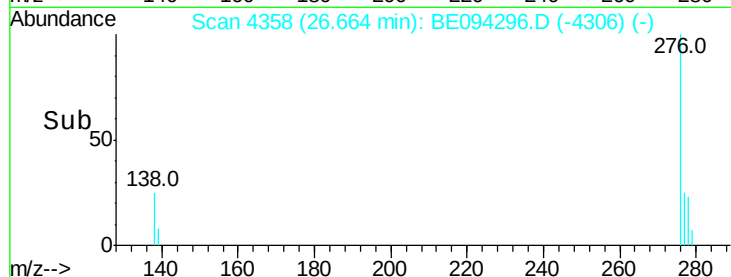
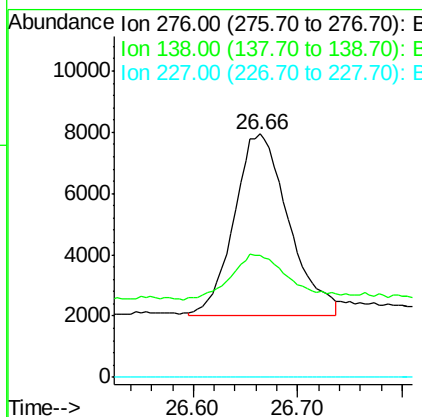
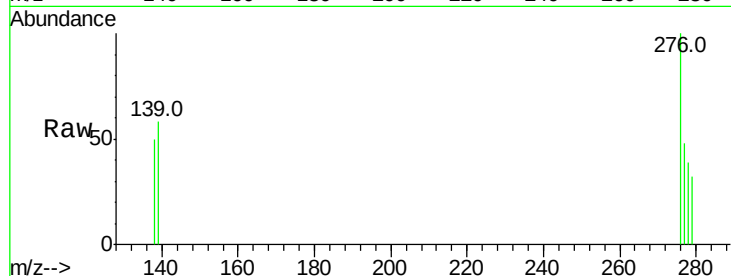
ClientSampleId :

B-41(5-7)-092717

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 276   | Resp: | 21566 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 0.5   | 28.0  | 42.0# |
| 227       | 0.0   | 8.0   | 12.0# |

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10/13/2017 12:05:56 PM



#25

Dibenzo(a,h)anthracene

Concen: 0.266 ng/ul m

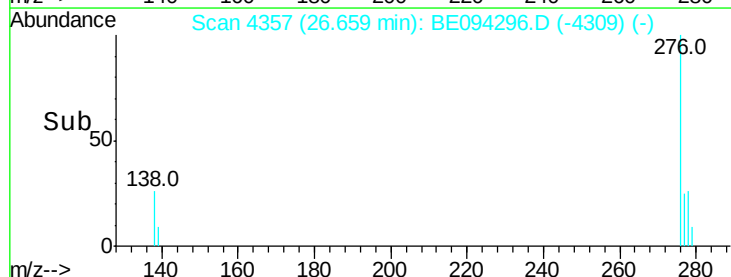
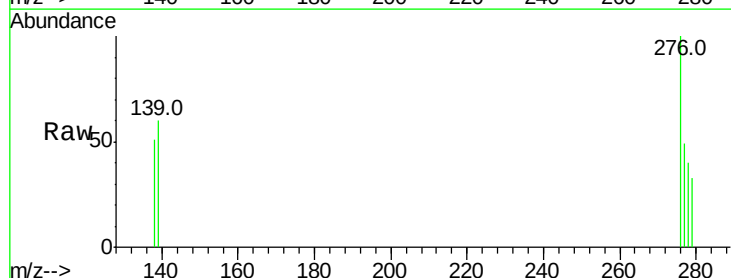
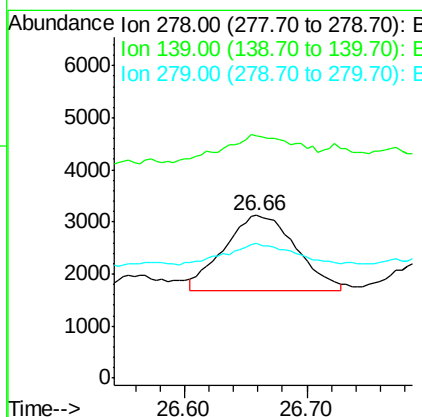
RT: 26.66 min Scan# 4357

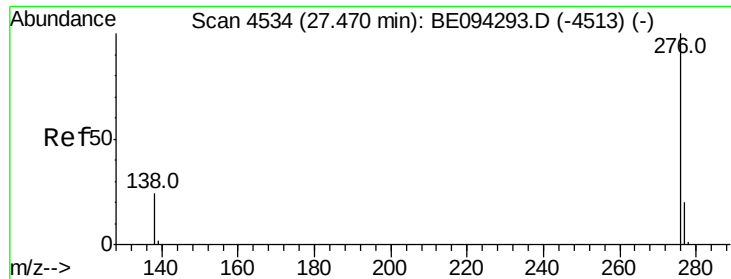
Delta R.T. 0.02 min

Lab File: BE094296.D

Acq: 12 Oct 2017 1:22

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 5926  |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 148.9 | 17.4  | 26.0# |
| 279       | 82.8  | 25.9  | 38.9# |





#26  
Benzo(a,h,i)perylene  
Concen: 0.713 ng/ul m  
RT: 27.51 min Scan# 4543  
Delta R.T. 0.04 min  
Lab File: BE094296.D  
Acq: 12 Oct 2017 1:22

Instrument :  
BNA\_E  
ClientSampleId :  
B-41(5-7)-092717

| Tot Ion | Ratio | Resp | Lower | Upper |
|---------|-------|------|-------|-------|
| 276     | 100   |      |       |       |
| 138     | 57.7  | 21.8 | 32.8# |       |
| 277     | 55.6  | 20.5 | 30.7# |       |

Manual Integrations  
APPROVED

Sohil  
10/13/2017 12:05:56 PM

