

Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE110317\  
 Data File : BE094732.D  
 Acq On : 4 Nov 2017 5:46  
 Operator : SJ/JU  
 Sample : I5933-01 5X  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-9(0-1) 101617

Manual Integrations  
 APPROVED

Sohil  
 11/4/2017 2:17:09 PM

Quant Time: Nov 04 05:45:01 2017  
 Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE102517.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Sat Nov 04 06:43:16 2017  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.90  | 152  | 1706     | 0.40   | ng/ul  | -0.02    |
| 2) Naphthalene-d8           | 10.68 | 136  | 10046    | 0.40   | ng/ul  | -0.02    |
| 6) Acenaphthene-d10         | 14.51 | 164  | 5606     | 0.40   | ng/ul  | -0.02    |
| 10) Phenanthrene-d10        | 17.24 | 188  | 12276    | 0.40   | ng/ul  | -0.02    |
| 16) Chrysene-d12            | 21.42 | 240  | 11966    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.95 | 264  | 11701    | 0.40   | ng/ul  | -0.02    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.27 | 152  | 756      | 0.05   | ng/ul  | -0.02    |
| 14) Fluoranthene-d10        | 19.27 | 212  | 2082     | 0.06   | ng/ul  | -0.01    |
| Target Compounds            |       |      |          |        | Qvalue |          |
| 3) Naphthalene              | 10.73 | 128  | 53505    | 2.178  | ng/ul# | 91       |
| 5) 2-Methylnaphthalene      | 12.34 | 142  | 12904    | 0.751  | ng/ul  | 97       |
| 7) Acenaphthylene           | 14.24 | 152  | 24983    | 0.985  | ng/ul  | 97       |
| 8) Acenaphthene             | 14.57 | 153  | 56865    | 3.121  | ng/ul  | 97       |
| 9) Fluorene                 | 15.56 | 166  | 59858    | 2.925  | ng/ul# | 95       |
| 12) Phenanthrene            | 17.29 | 178  | 1085176  | 33.467 | ng/ul# | 92       |
| 13) Anthracene              | 17.38 | 178  | 208924   | 6.529  | ng/ul# | 91       |
| 15) Fluoranthene            | 19.31 | 202  | 1720737  | 45.902 | ng/ul  | 83       |
| 17) Pyrene                  | 19.67 | 202  | 1590167  | 42.987 | ng/ul# | 80       |
| 18) Benzo(a)anthracene      | 21.40 | 228  | 786009   | 22.978 | ng/ul# | 87       |
| 19) Chrysene                | 21.46 | 228  | 769677   | 21.768 | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 23.18 | 252  | 881480m  | 26.781 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.22 | 252  | 327091m  | 9.273  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.85 | 252  | 639171   | 19.427 | ng/ul# | 78       |
| 24) Indeno(1,2,3-cd)pyrene  | 26.66 | 276  | 381156   | 11.196 | ng/ul# | 75       |
| 25) Dibenzo(a,h)anthracene  | 26.65 | 278  | 86493    | 3.015  | ng/ul  | 94       |
| 26) Benzo(g,h,i)perylene    | 27.50 | 276  | 326661   | 11.949 | ng/ul  | 95       |

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

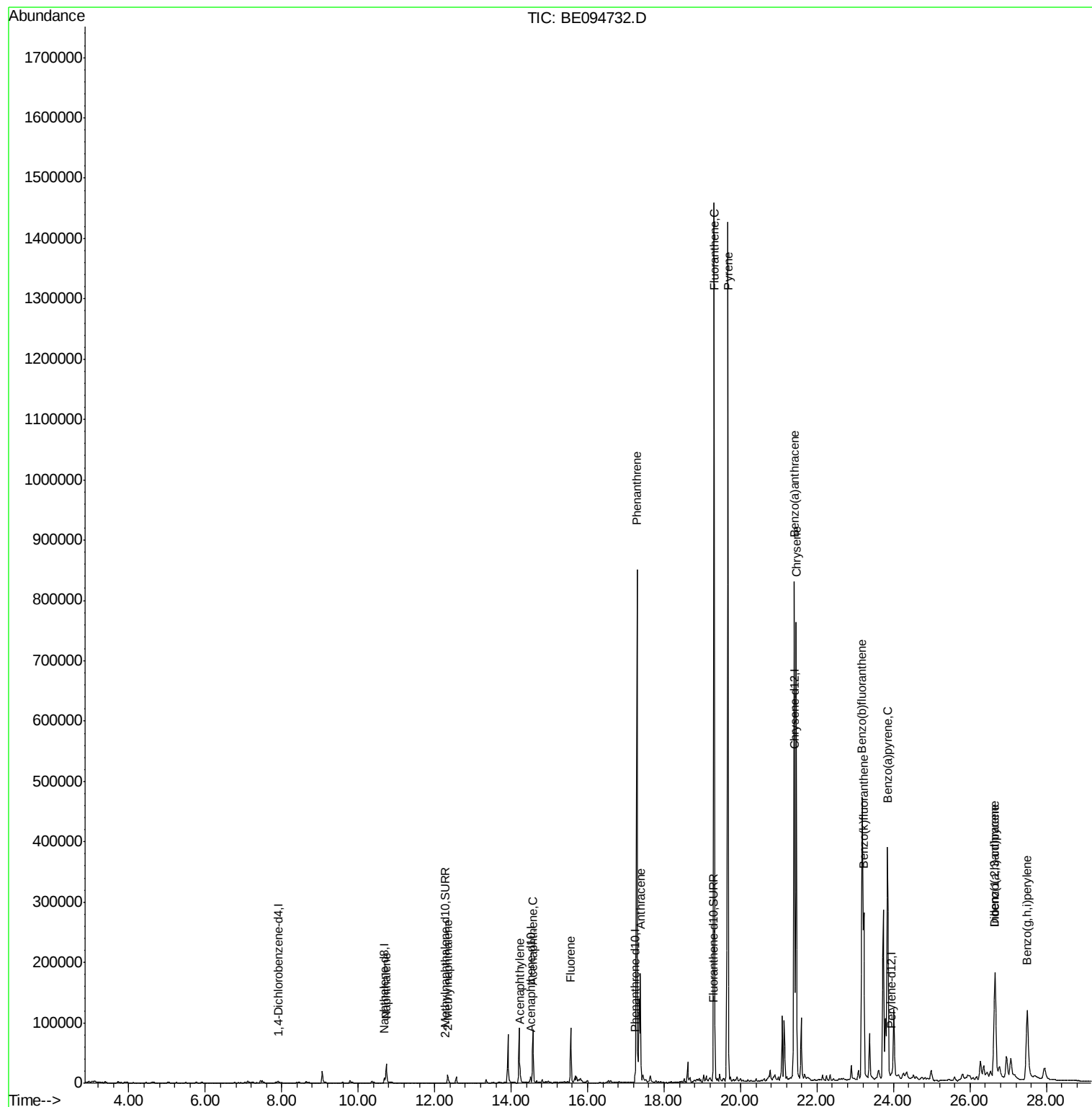
Data Path : Z:\HPCHEM1\BNA\_E\DATA\BE110317\  
Data File : BE094732.D  
Acq On : 4 Nov 2017 5:46  
Operator : SJ/JU  
Sample : I5933-01 5X  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

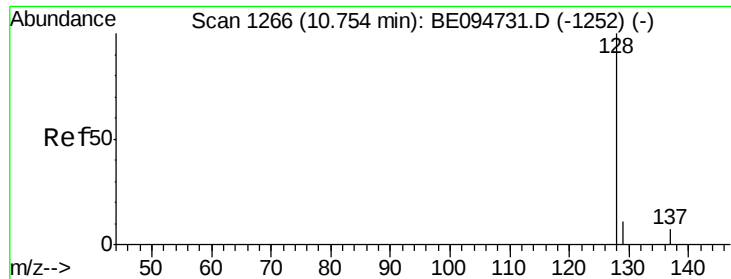
Instrument :  
BNA\_E  
ClientSampleId :  
B-9(0-1) 101617

Manual Integrations  
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Quant Time: Nov 04 05:45:01 2017  
Quant Method : Z:\HPCHEM1\BNA\_E\METHODS\SOM-EPA-SIM-BE102517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Nov 04 06:43:16 2017  
Response via : Initial Calibration





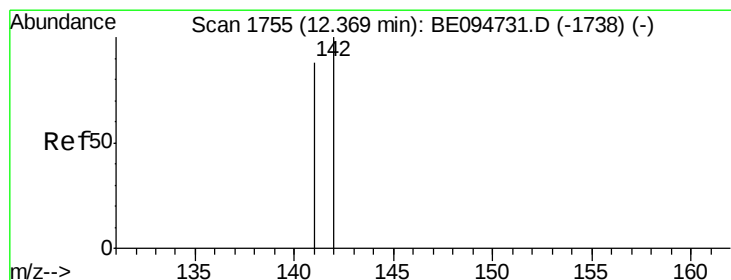
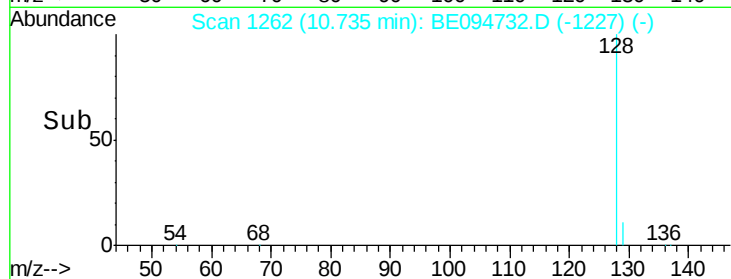
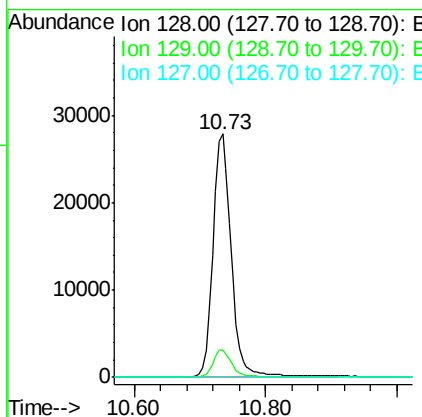
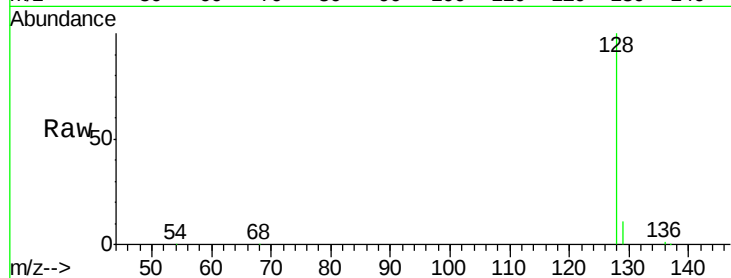
#3  
Naphthalene  
Concen: 2.178 ng/ul  
RT: 10.73 min Scan# 1262  
Delta R.T. -0.02 min  
Lab File: BE094732.D  
Acq: 4 Nov 2017 5:46

Instrument :  
BNA\_E  
ClientSampleId :  
B-9(0-1) 101617

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.4  | 11.3  | 16.9  |
| 127     | 0.0   | 4.0   | 6.0   |

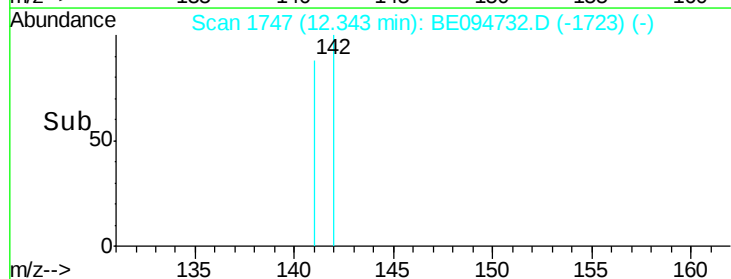
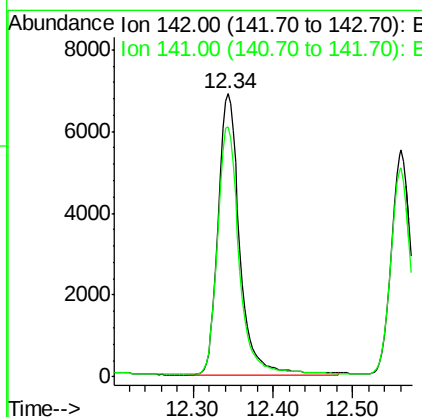
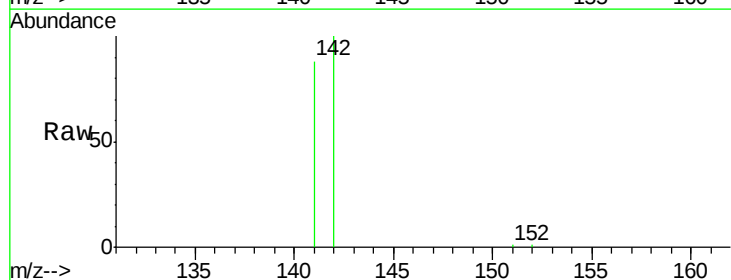
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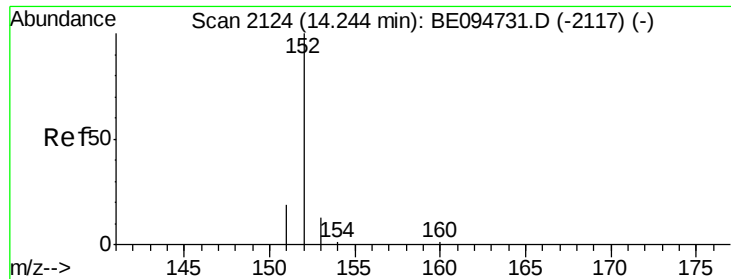
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#5  
2-Methylnaphthalene  
Concen: 0.751 ng/ul  
RT: 12.34 min Scan# 1747  
Delta R.T. -0.03 min  
Lab File: BE094732.D  
Acq: 4 Nov 2017 5:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 142     | 100   |       |       |
| 141     | 88.3  | 72.6  | 108.8 |





#7

Acenaphthylene

Concen: 0.985 ng/ul

RT: 14.24 min Scan# 2123

Delta R.T. -0.01 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

Instrument :

BNA\_E

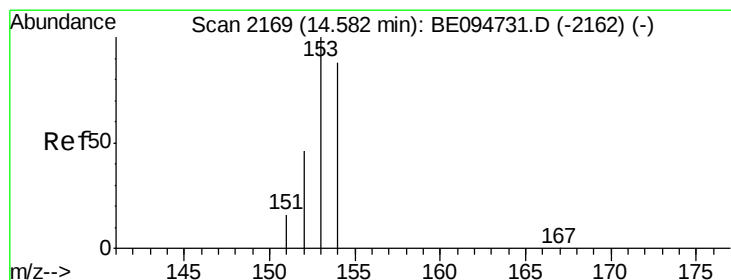
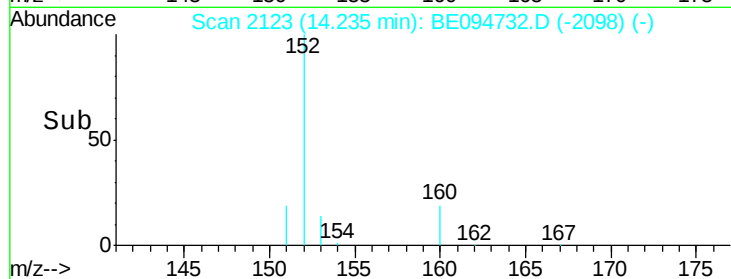
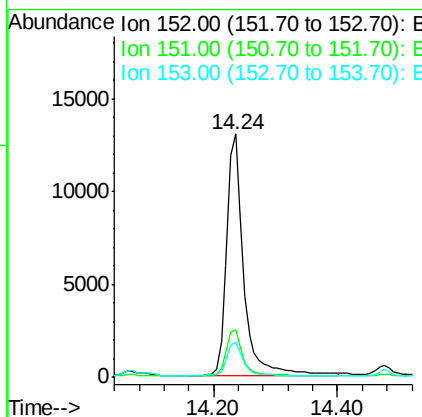
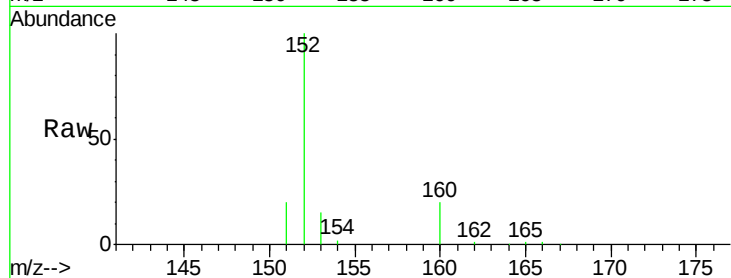
ClientSampleId :

B-9(0-1) 101617

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 24983 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.8  | 17.1  | 25.7  |
| 153       | 14.6  | 12.8  | 19.2  |

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#8

Acenaphthene

Concen: 3.121 ng/ul

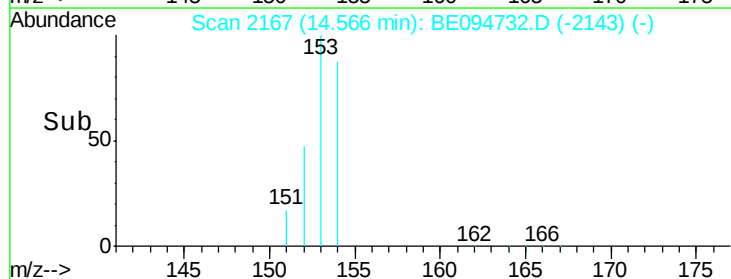
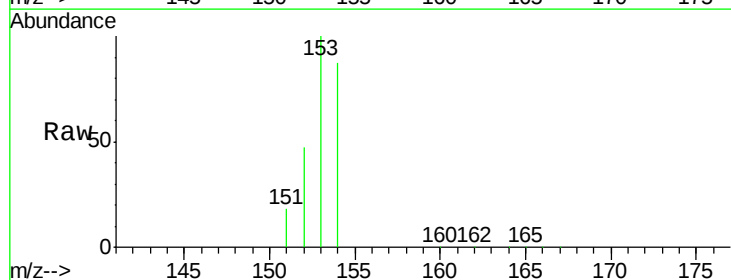
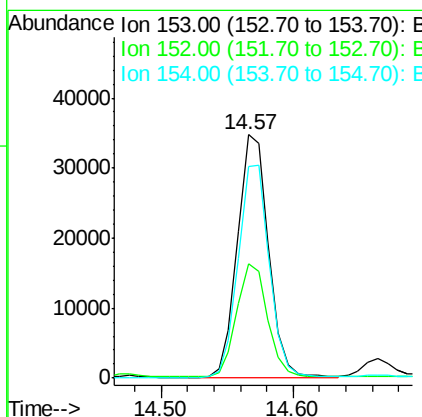
RT: 14.57 min Scan# 2167

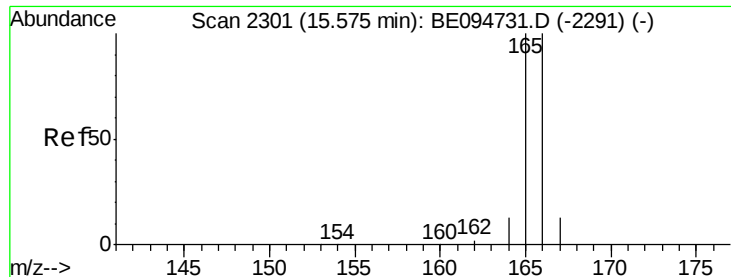
Delta R.T. -0.02 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 56865 |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 47.1  | 36.0  | 54.0  |
| 154       | 87.0  | 72.0  | 108.0 |





#9

Fluorene

Concen: 2.925 ng/ul

RT: 15.56 min Scan# 2299

Delta R.T. -0.02 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

Instrument :

BNA\_E

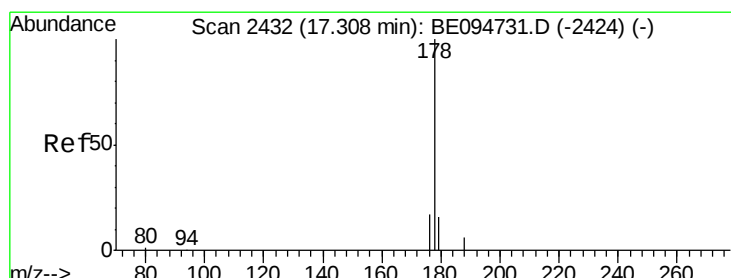
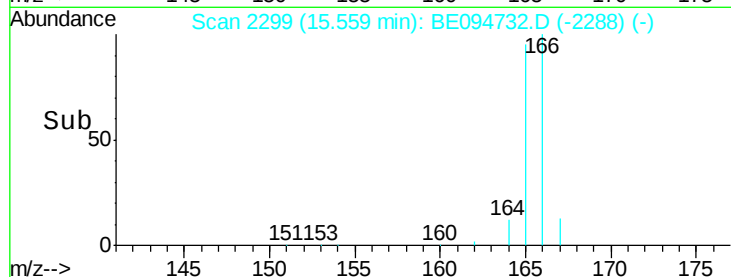
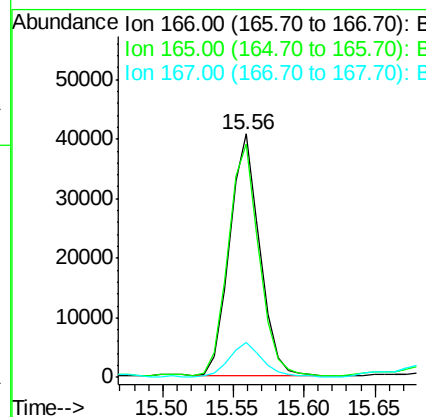
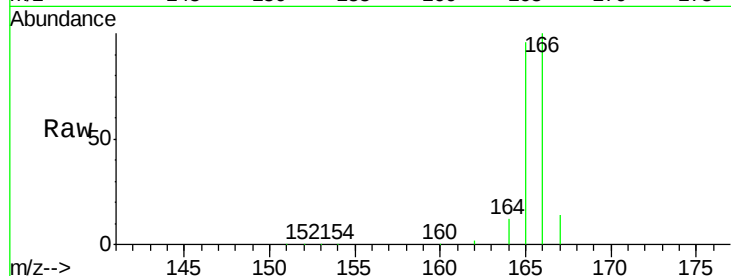
ClientSampleId :

B-9(0-1)\_101617

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 59858 |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 95.8  | 73.4  | 110.2 |
| 167       | 14.2  | 14.6  | 22.0# |

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#12

Phenanthrene

Concen: 33.467 ng/ul

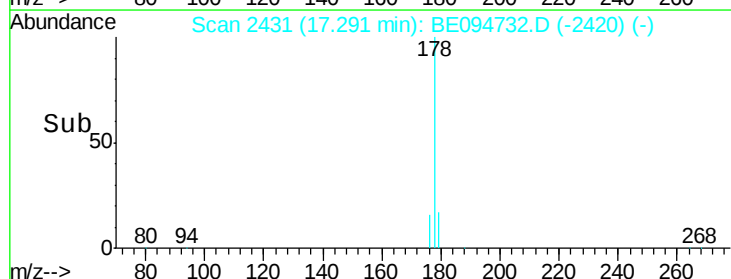
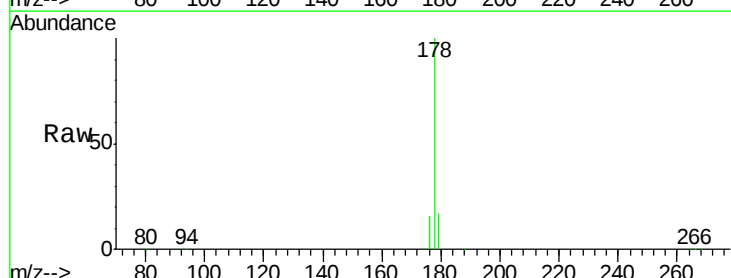
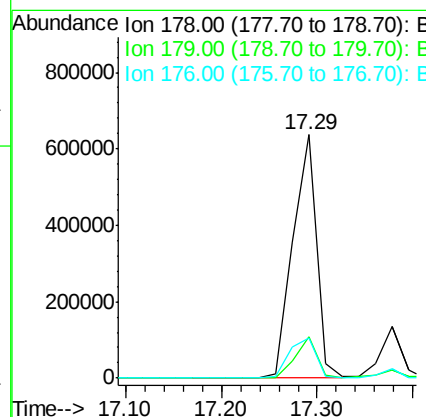
RT: 17.29 min Scan# 2431

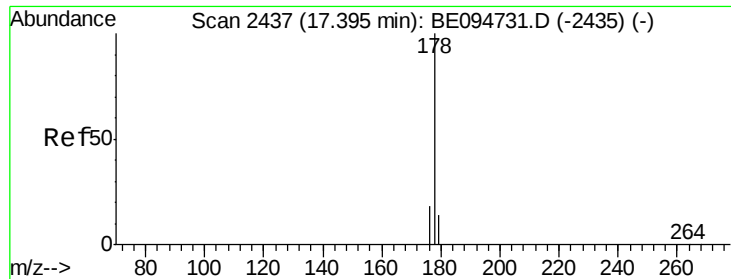
Delta R.T. -0.02 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

|           |       |       |         |
|-----------|-------|-------|---------|
| Tgt Ion:  | 178   | Resp: | 1085176 |
| Ion Ratio | Lower | Upper |         |
| 178       | 100   |       |         |
| 179       | 17.1  | 18.4  | 27.6#   |
| 176       | 16.3  | 13.6  | 20.4    |





#13

Anthracene

Concen: 6.529 ng/ul

RT: 17.38 min Scan# 2436

Delta R.T. -0.02 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

Instrument :

BNA\_E

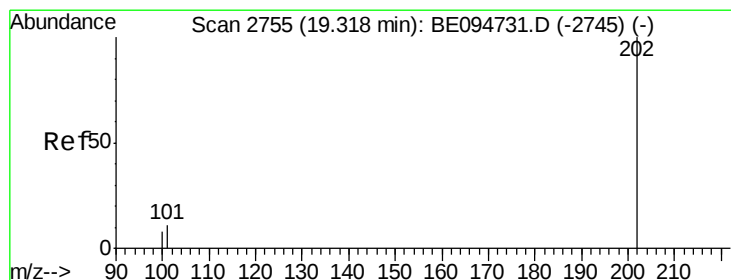
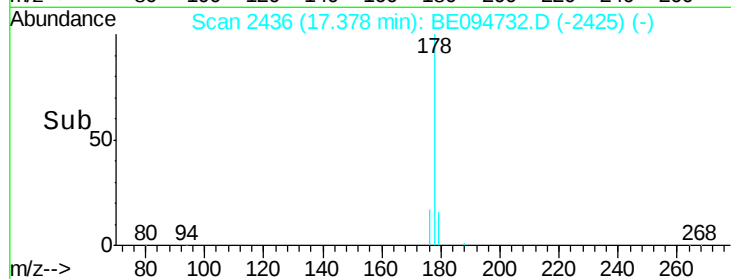
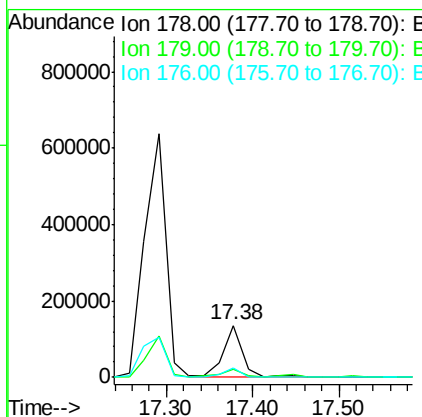
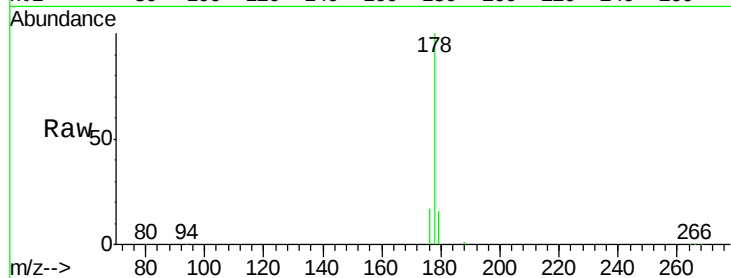
ClientSampleId :

B-9(0-1) 101617

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.1  | 18.1  | 27.1# |
| 176     | 17.1  | 14.7  | 22.1  |

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#15

Fluoranthene

Concen: 45.902 ng/ul

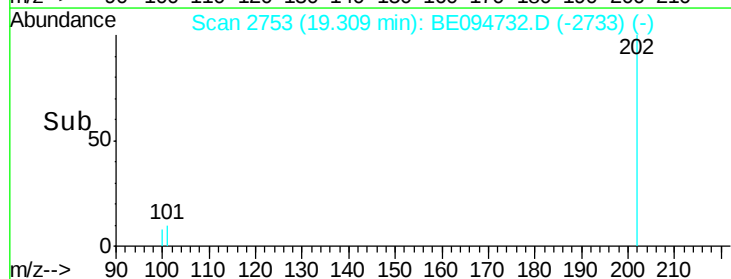
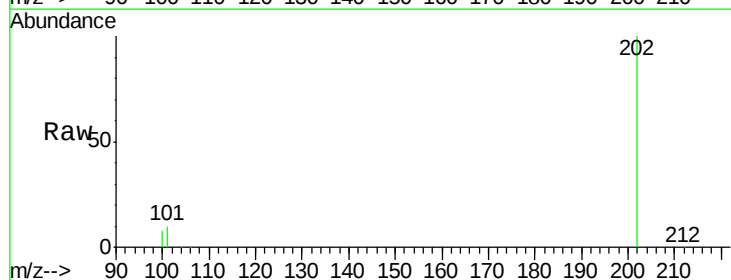
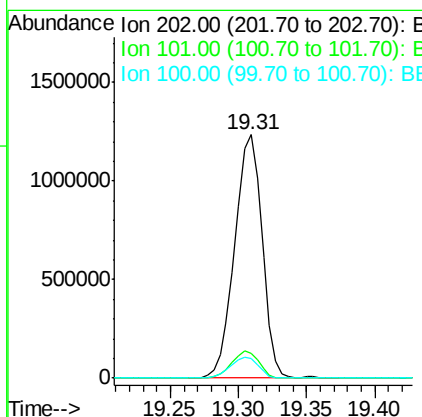
RT: 19.31 min Scan# 2753

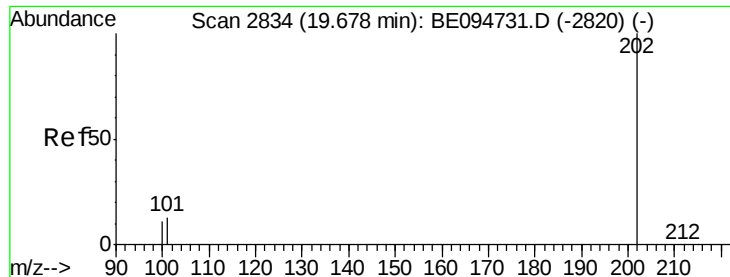
Delta R.T. -0.01 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.2  | 0.0   | 30.3  |
| 100     | 7.9   | 0.0   | 39.5  |





#17

Pyrene

Concen: 42.987 ng/ul

RT: 19.67 min Scan# 2832

Delta R.T. -0.01 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

Instrument :

BNA\_E

ClientSampleId :

B-9(0-1) 101617

Tgt Ion:202 Resp: 1590167

Ion Ratio Lower Upper

202 100

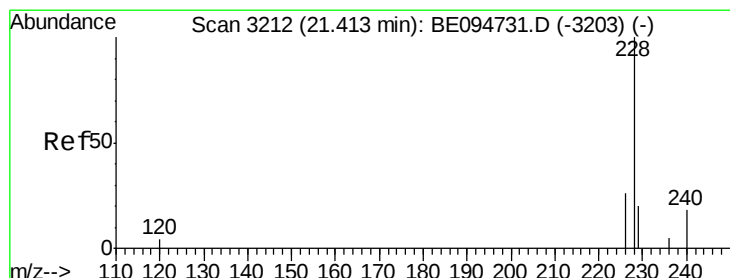
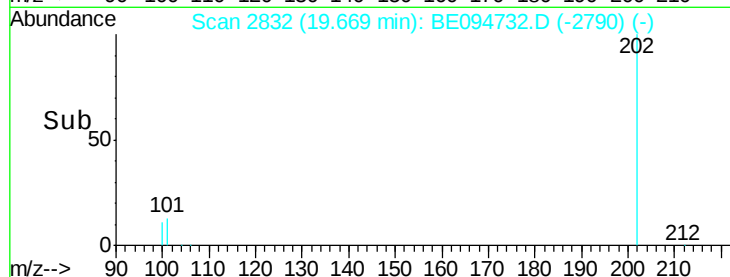
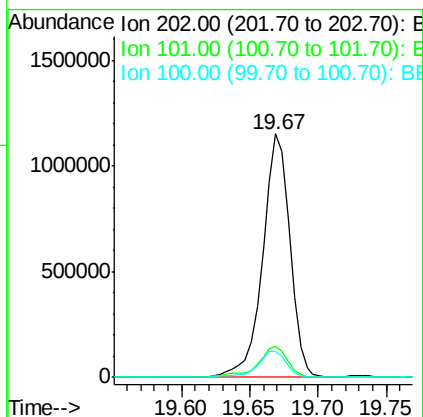
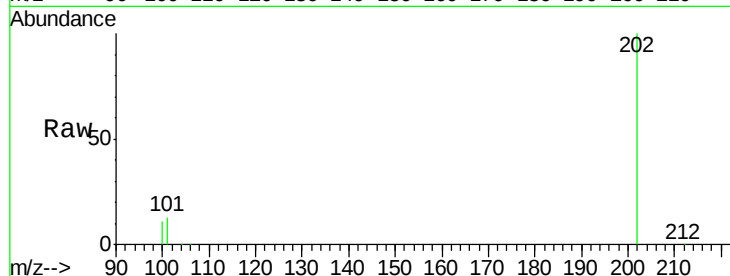
101 12.8 18.2 27.4#

100 10.8 15.6 23.4#

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#18

Benzo(a)anthracene

Concen: 22.978 ng/ul

RT: 21.40 min Scan# 3209

Delta R.T. -0.01 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

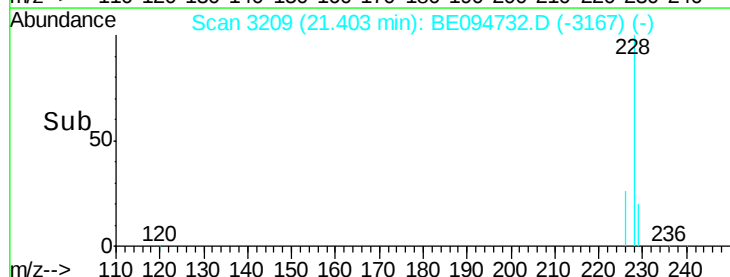
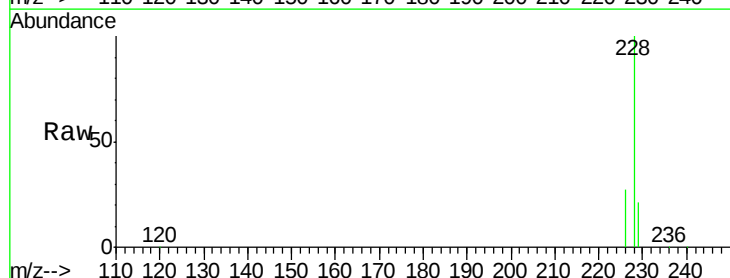
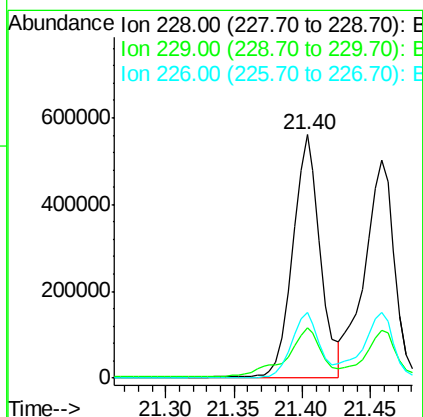
Tgt Ion:228 Resp: 786009

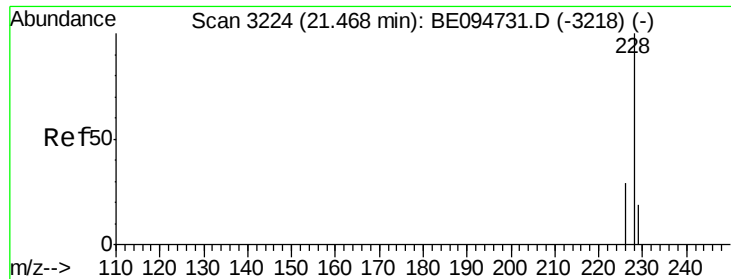
Ion Ratio Lower Upper

228 100

229 20.7 22.8 34.2#

226 26.7 17.0 25.6#





#19

Chrysene

Concen: 21.768 ng/ul

RT: 21.46 min Scan# 3221

Delta R.T. -0.01 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

Instrument :

BNA\_E

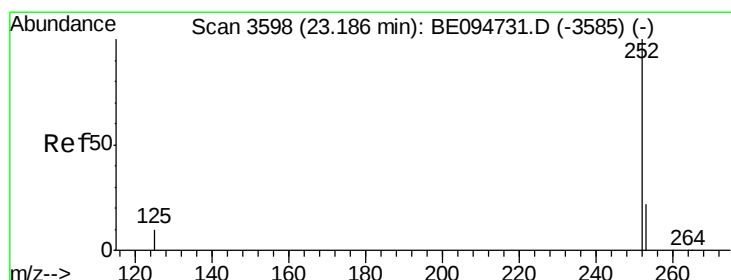
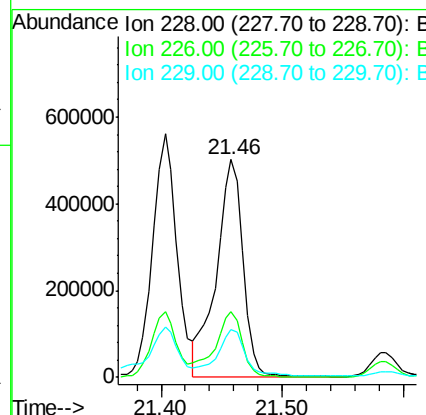
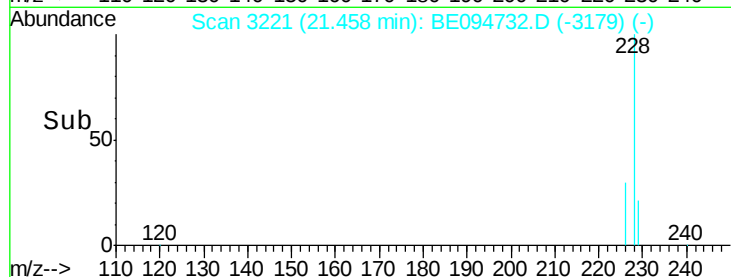
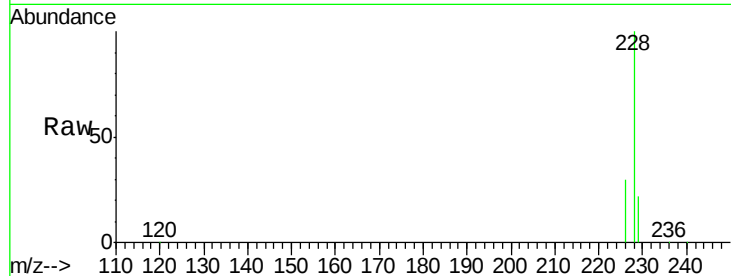
ClientSampled :

B-9(0-1) 101617

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 228   | Resp: | 769677 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 30.1  | 23.4  | 35.0   |
| 229       | 21.8  | 17.7  | 26.5   |

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#21

Benzo(b)fluoranthene

Concen: 26.781 ng/ul m

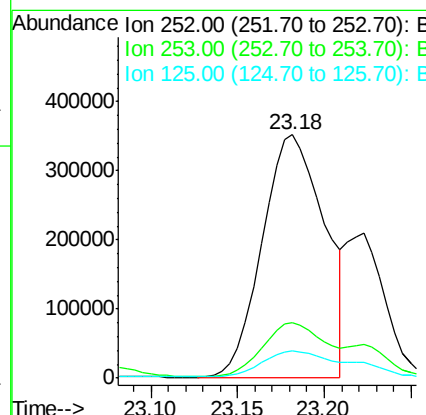
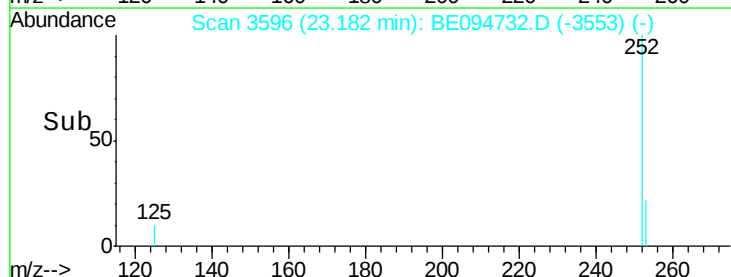
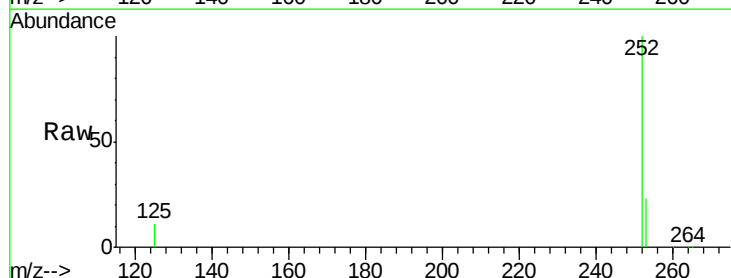
RT: 23.18 min Scan# 3596

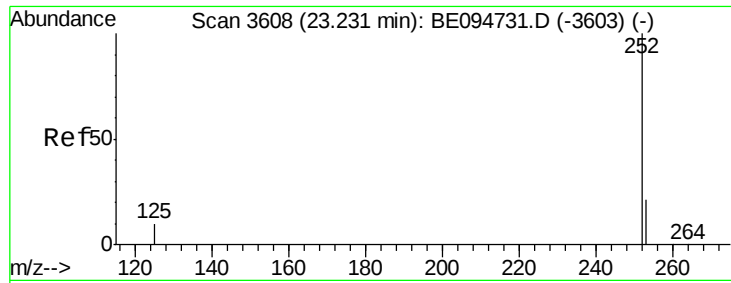
Delta R.T. -0.00 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 881480 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.8  | 0.0   | 64.2   |
| 125       | 11.0  | 0.0   | 35.0   |





#22

Benzo(k)fluoranthene

Concen: 9.273 ng/ul m

RT: 23.22 min Scan# 3605

Delta R.T. -0.01 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

Instrument :

BNA\_E

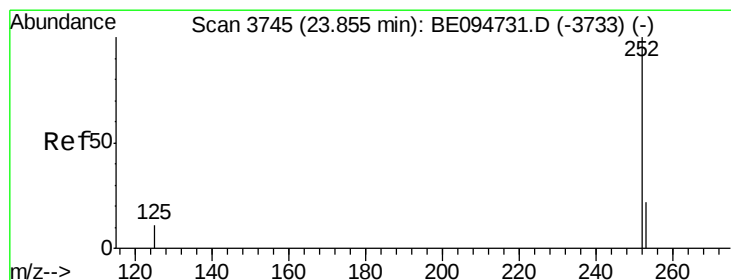
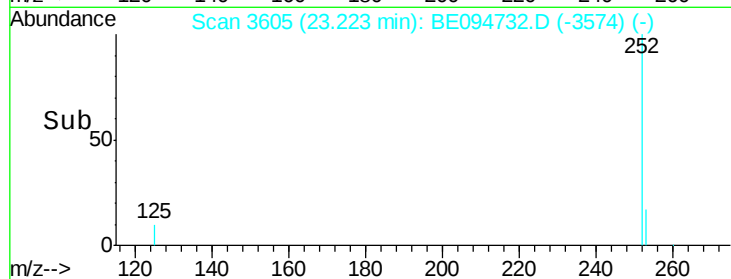
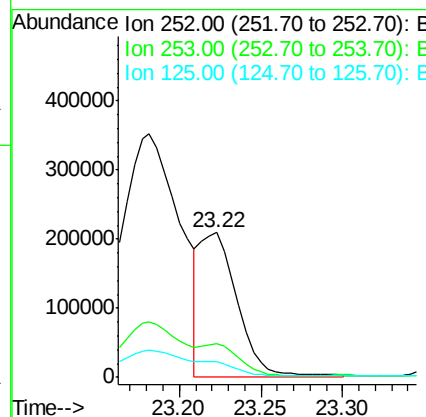
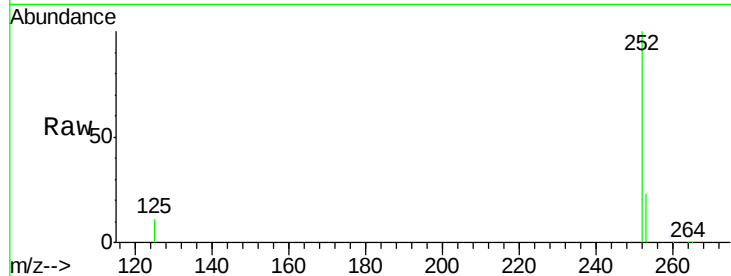
ClientSampleId :

B-9(0-1) 101617

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 327091 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.4  | 24.5  | 36.7#  |
| 125       | 10.9  | 13.7  | 20.5#  |

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#23

Benzo(a)pyrene

Concen: 19.427 ng/ul

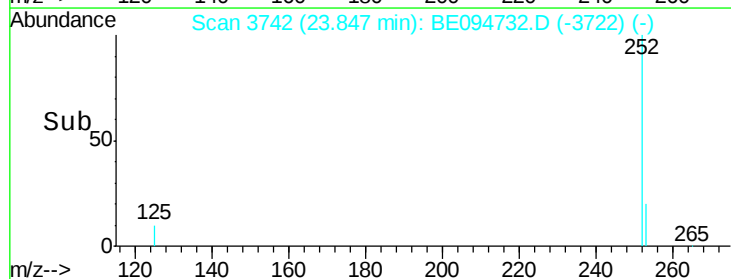
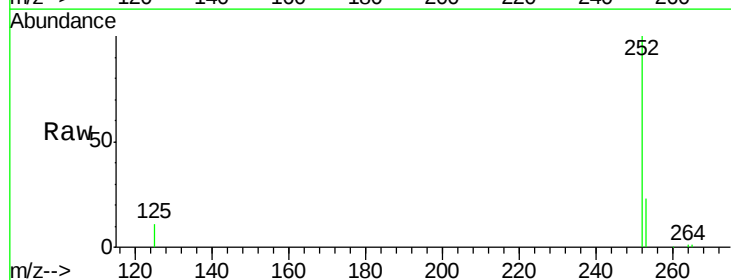
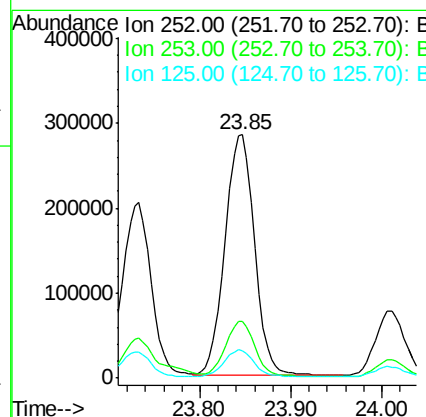
RT: 23.85 min Scan# 3742

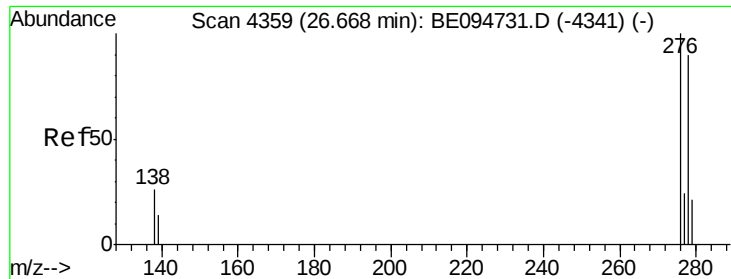
Delta R.T. -0.01 min

Lab File: BE094732.D

Acq: 4 Nov 2017 5:46

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 639171 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 23.2  | 28.5  | 42.7#  |
| 125       | 11.4  | 18.1  | 27.1#  |





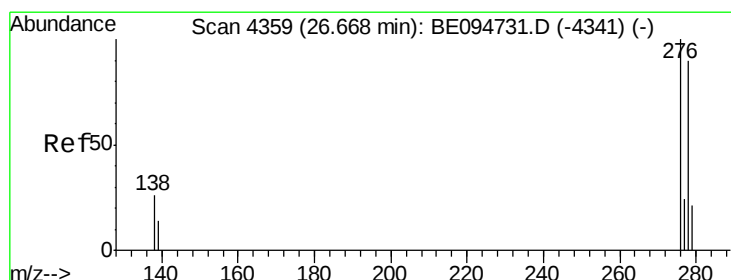
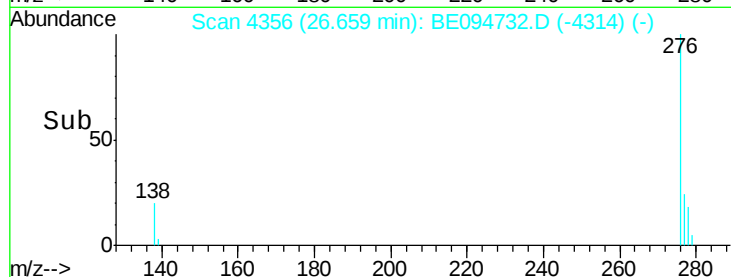
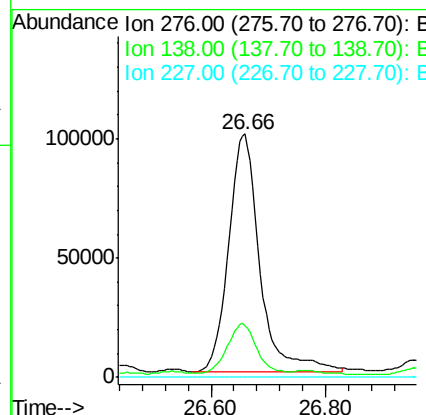
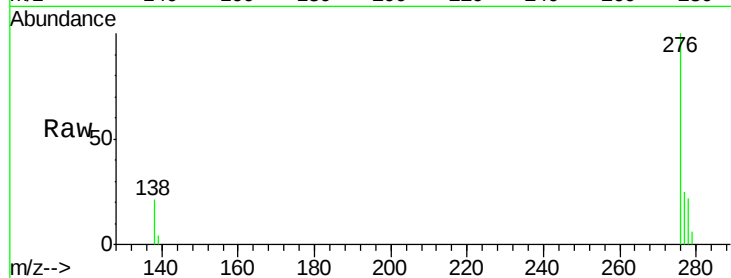
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 11.196 ng/ul  
 RT: 26.66 min Scan# 4356  
 Delta R.T. -0.01 min  
 Lab File: BE094732.D  
 Acq: 4 Nov 2017 5:46

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-9(0-1) 101617

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 276     | 100   |            |            |
| 138     | 20.8  | 28.0       | 42.0#      |
| 227     | 0.0   | 8.0        | 12.0#      |

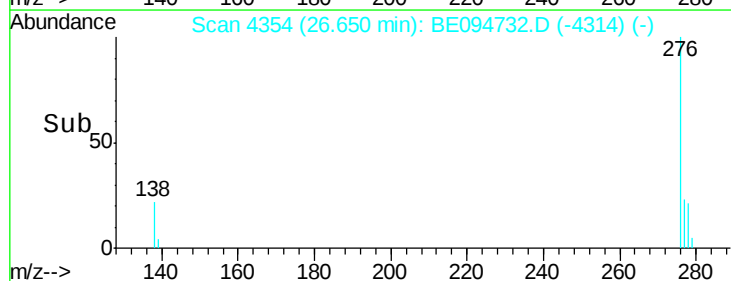
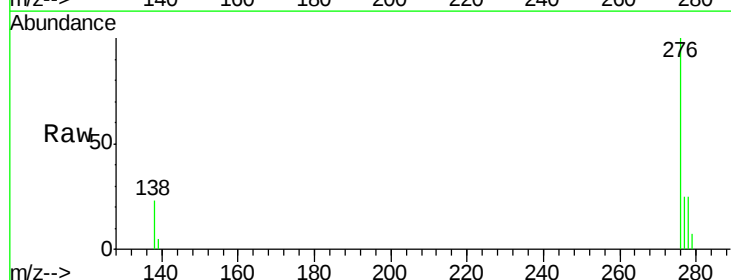
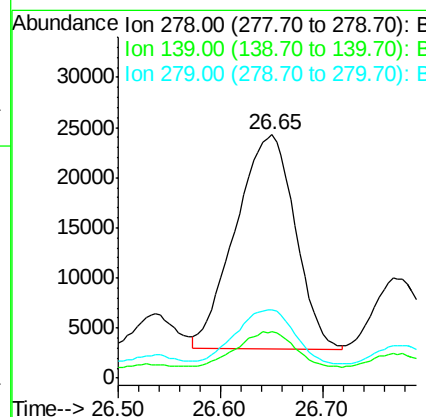
Manual Integrations  
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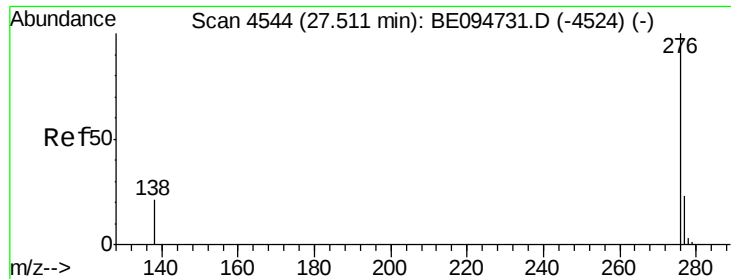
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 3.015 ng/ul  
 RT: 26.65 min Scan# 4354  
 Delta R.T. -0.02 min  
 Lab File: BE094732.D  
 Acq: 4 Nov 2017 5:46

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 278     | 100   |            |            |
| 139     | 19.2  | 17.4       | 26.0       |
| 279     | 28.3  | 25.9       | 38.9       |





#26  
 Benzo(g,h,i)perylene  
 Concen: 11.949 ng/ul  
 RT: 27.50 min Scan# 4540  
 Delta R.T. -0.01 min  
 Lab File: BE094732.D  
 Acq: 4 Nov 2017 5:46

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B-9(0-1)\_101617

| Tgt | Ion  | Ratio | Resp   | Lower | Upper |
|-----|------|-------|--------|-------|-------|
| 276 | 100  |       | 326661 |       |       |
| 138 | 23.1 | 21.8  | 32.8   |       |       |
| 277 | 24.6 | 20.5  | 30.7   |       |       |

Manual Integrations  
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