

Data Path : U:\HPCHEM1\BNA E\DATA\BE012018\  
 Data File : BE095087.D  
 Acq On : 20 Jan 2018 13:34  
 Operator : SJ/JU  
 Sample : J1216-03DL 5X  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B0AE6DL

Manual Integrations  
 APPROVED

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 1/22/2018 5:22:34 PM

Quant Time: Jan 22 12:21:17 2018  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE011918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Jan 22 04:29:25 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.46  | 152  | 4434     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.28 | 136  | 14396    | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 15.04 | 164  | 8502     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.73 | 188  | 17919    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.83 | 240  | 20460    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.48 | 264  | 20112    | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.84 | 152  | 1562     | 0.07   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.72 | 212  | 4205     | 0.08   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 11.33 | 128  | 955      | 0.025  | ng/ul# | 75       |
| 7) Acenaphthylene           | 14.77 | 152  | 2750     | 0.072  | ng/ul  | 97       |
| 8) Acenaphthene             | 15.10 | 153  | 1619     | 0.055  | ng/ul  | 92       |
| 9) Fluorene                 | 16.05 | 166  | 2263     | 0.072  | ng/ul# | 79       |
| 12) Phenanthrene            | 17.78 | 178  | 44794    | 0.941  | ng/ul# | 88       |
| 13) Anthracene              | 17.87 | 178  | 4558     | 0.110  | ng/ul# | 93       |
| 15) Fluoranthene            | 19.75 | 202  | 62860    | 1.034  | ng/ul  | 84       |
| 17) Pyrene                  | 20.10 | 202  | 64680    | 0.870  | ng/ul# | 80       |
| 18) Benzo(a)anthracene      | 21.81 | 228  | 27226    | 0.481  | ng/ul# | 87       |
| 19) Chrysene                | 21.87 | 228  | 24566    | 0.389  | ng/ul  | 97       |
| 21) Benzo(b)fluoranthene    | 23.66 | 252  | 24816m   | 0.367  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.71 | 252  | 8677m    | 0.139  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 24.36 | 252  | 19796    | 0.342  | ng/ul# | 81       |
| 24) Indeno(1,2,3-cd)pyrene  | 27.31 | 276  | 10905    | 0.212  | ng/ul# | 76       |
| 25) Dibenzo(a,h)anthracene  | 27.33 | 278  | 2739     | 0.075  | ng/ul# | 85       |
| 26) Benzo(a,h,i)perylene    | 28.19 | 276  | 10003    | 0.196  | ng/ul  | 98       |

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

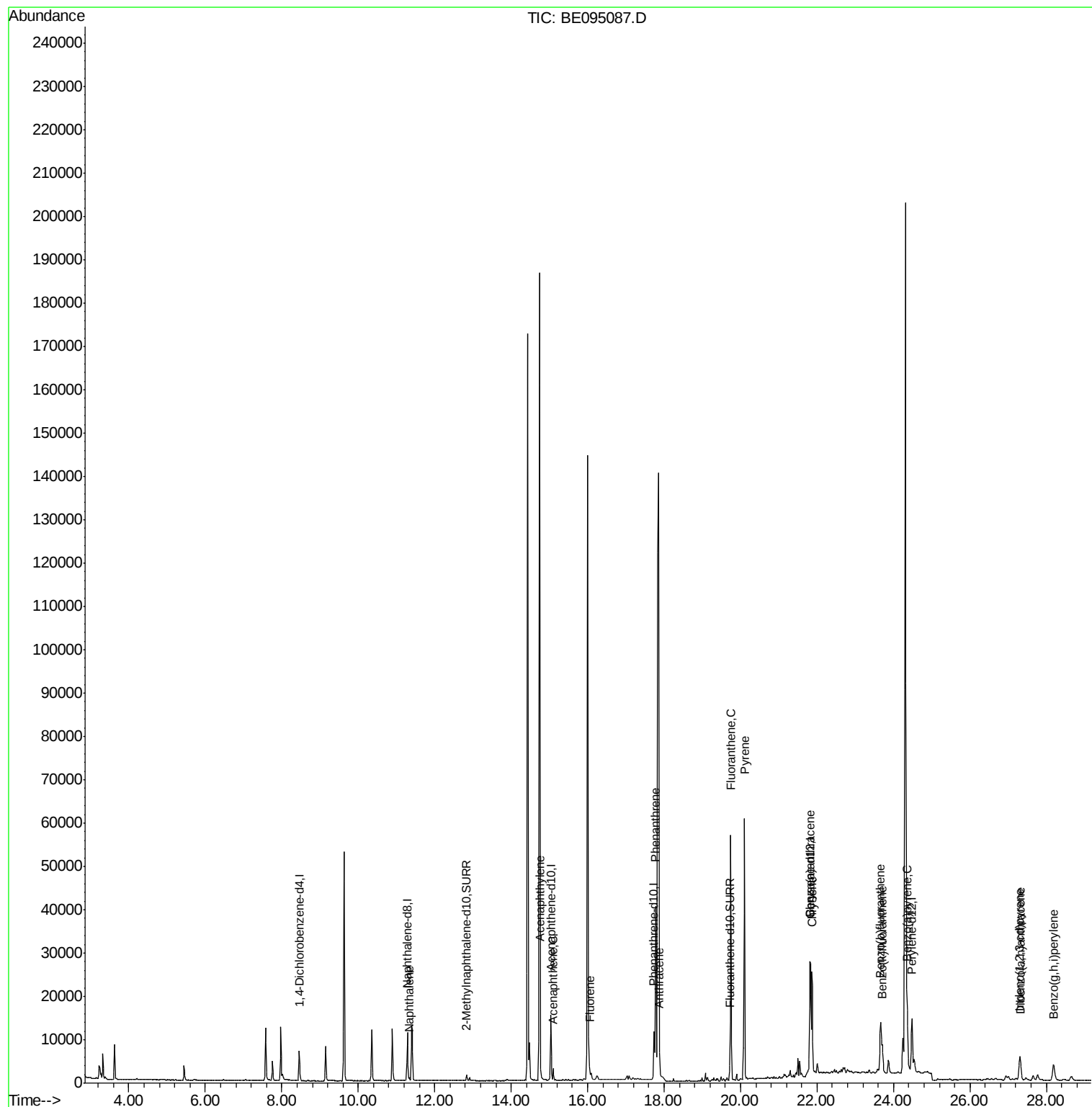
Data Path : U:\HPCHEM1\BNA E\DATA\BE012018\  
Data File : BE095087.D  
Acq On : 20 Jan 2018 13:34  
Operator : SJ/JU  
Sample : J1216-03DL 5X  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

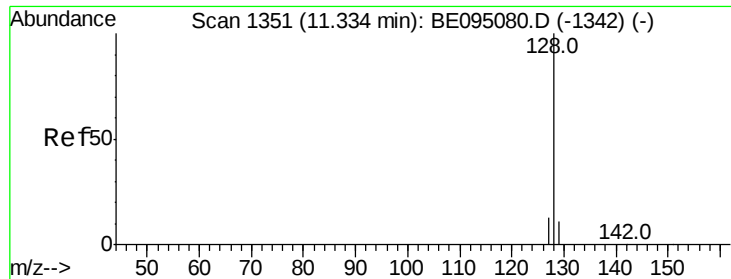
Instrument :  
BNA\_E  
ClientSampleId :  
B0AE6DL

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Quant Time: Jan 22 12:21:17 2018  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE011918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jan 22 04:29:25 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.025 ng/ul

RT: 11.33 min Scan# 1351

Delta R.T. 0.00 min

Lab File: BE095087.D

Acq: 20 Jan 2018 13:34

Instrument :

BNA\_E

ClientSampleId :

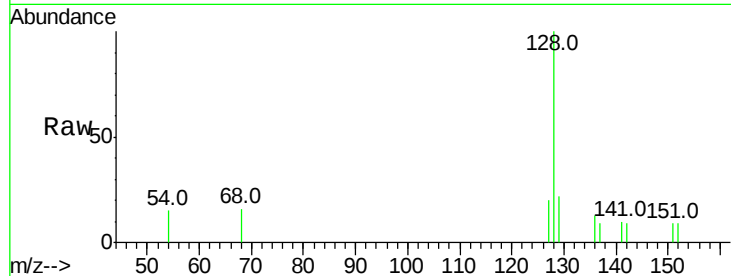
B0AE6DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 955   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 21.5  | 11.3  | 16.9# |
| 127       | 20.0  | 4.0   | 6.0#  |

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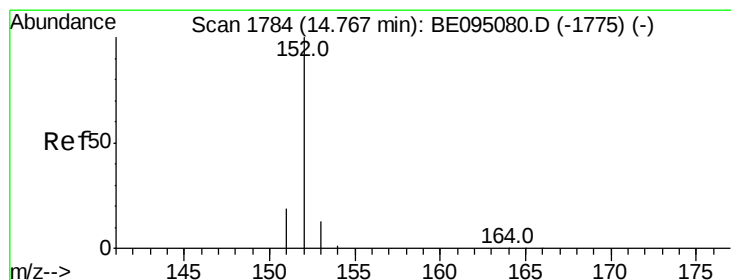
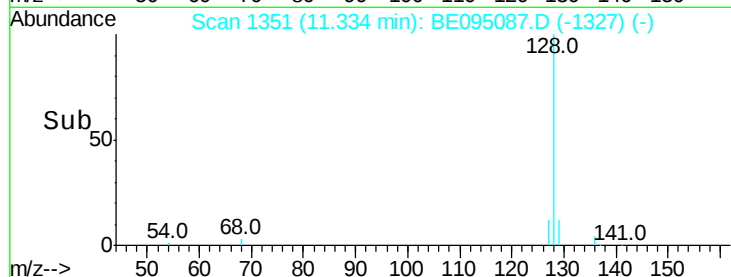
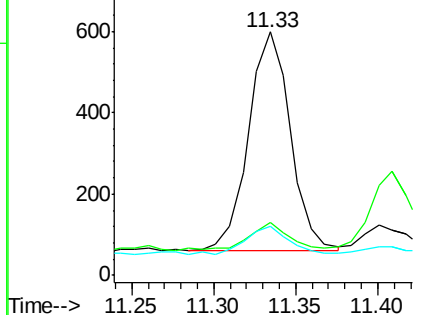
1/22/2018 5:22:34 PM



Abundance Ion 128.00 (127.70 to 128.70): E

Ion 129.00 (128.70 to 129.70): E

Ion 127.00 (126.70 to 127.70): E



#7

Acenaphthylene

Concen: 0.072 ng/ul

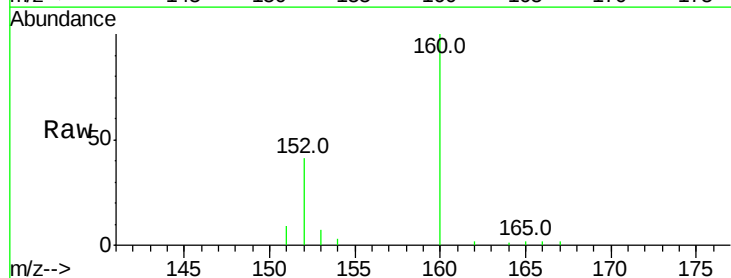
RT: 14.77 min Scan# 1784

Delta R.T. 0.00 min

Lab File: BE095087.D

Acq: 20 Jan 2018 13:34

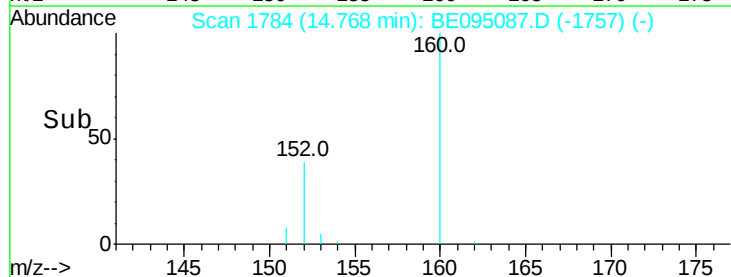
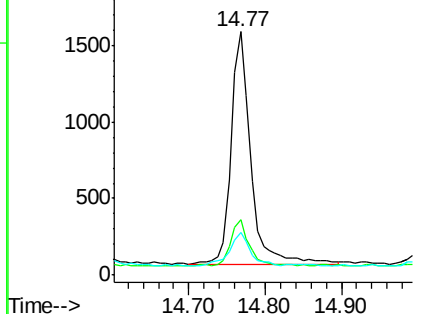
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 2750 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 22.9  | 17.1  | 25.7 |
| 153       | 17.4  | 12.8  | 19.2 |

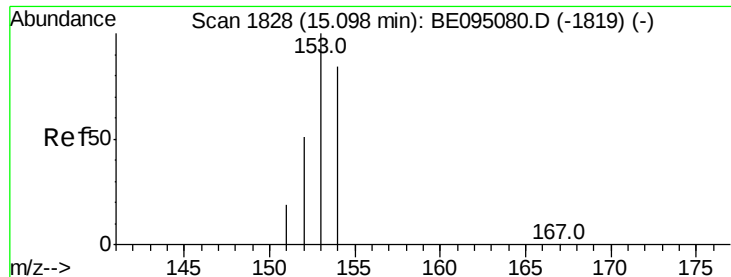


Abundance Ion 152.00 (151.70 to 152.70): E

Ion 151.00 (150.70 to 151.70): E

Ion 153.00 (152.70 to 153.70): E





#8

Acenaphthene

Concen: 0.055 ng/ul

RT: 15.10 min Scan# 1828

Delta R.T. 0.00 min

Lab File: BE095087.D

Acq: 20 Jan 2018 13:34

Instrument :

BNA\_E

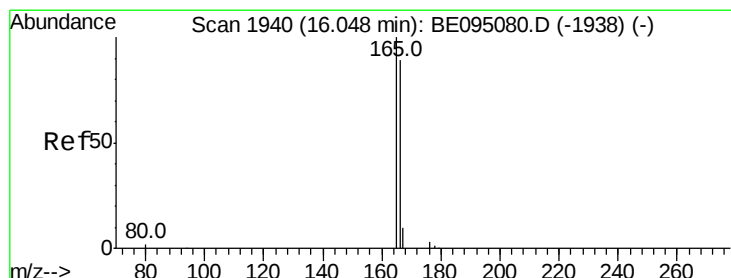
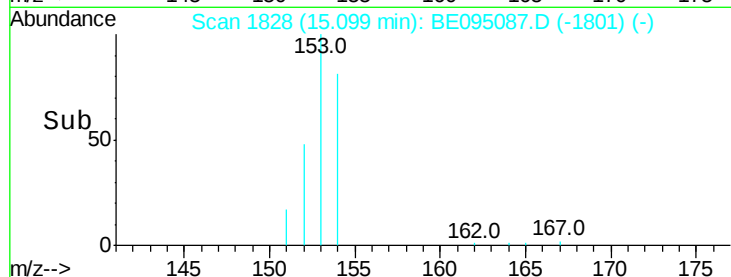
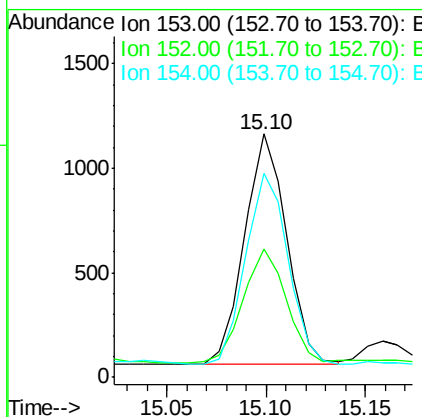
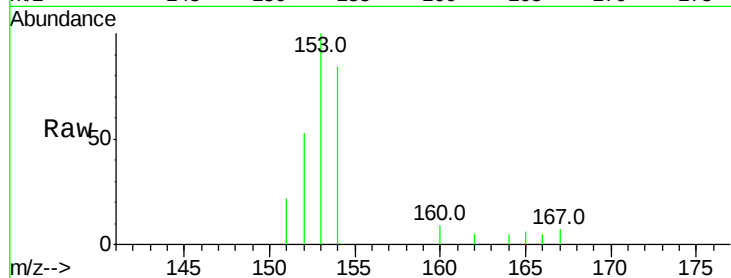
ClientSampleId :

B0AE6DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 153   | Resp: | 1619  |
| Ion      | Ratio | Lower | Upper |
| 153      | 100   |       |       |
| 152      | 52.7  | 36.0  | 54.0  |
| 154      | 83.8  | 72.0  | 108.0 |

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#9

Fluorene

Concen: 0.072 ng/ul

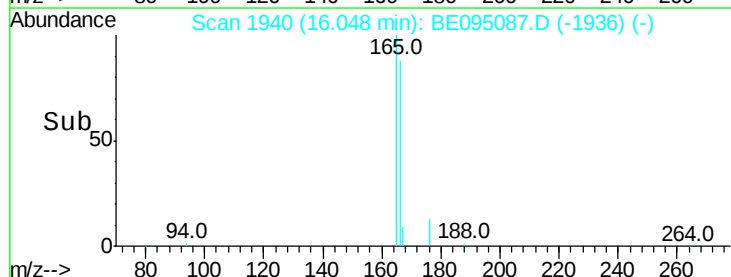
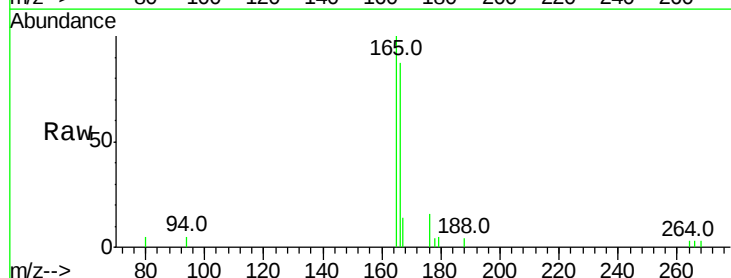
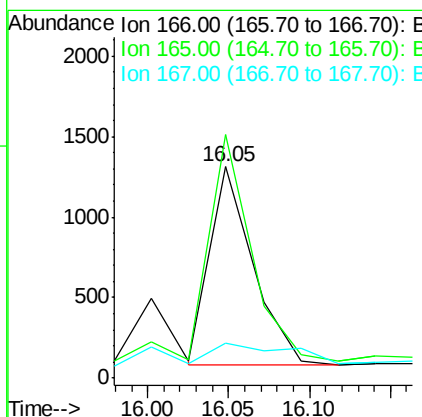
RT: 16.05 min Scan# 1940

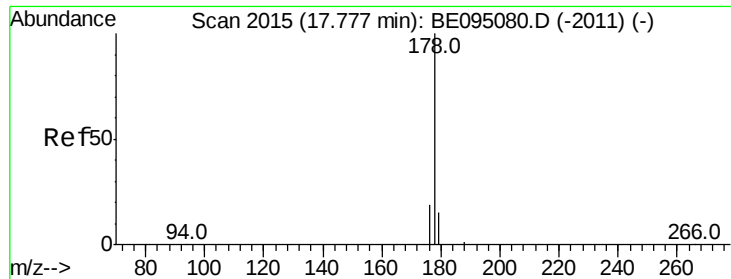
Delta R.T. 0.00 min

Lab File: BE095087.D

Acq: 20 Jan 2018 13:34

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 166   | Resp: | 2263   |
| Ion      | Ratio | Lower | Upper  |
| 166      | 100   |       |        |
| 165      | 115.1 | 73.4  | 110.2# |
| 167      | 16.7  | 14.6  | 22.0   |





#12

Phenanthrene

Concen: 0.941 ng/ul

RT: 17.78 min Scan# 2015

Delta R.T. 0.00 min

Lab File: BE095087.D

Acq: 20 Jan 2018 13:34

Instrument :

BNA\_E

ClientSampleId :

B0AE6DL

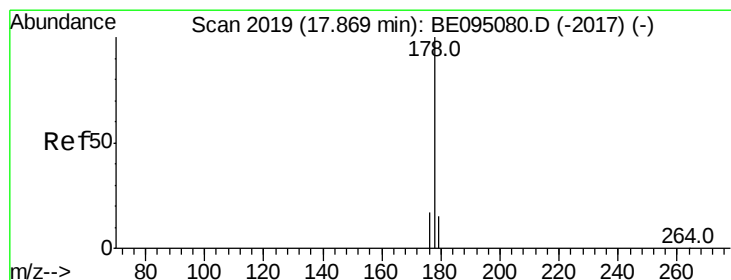
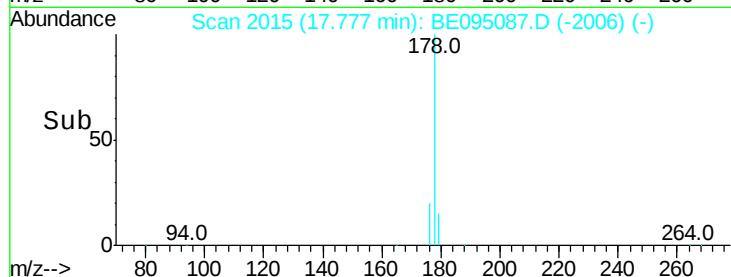
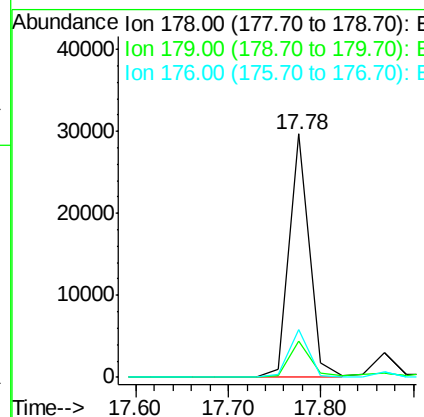
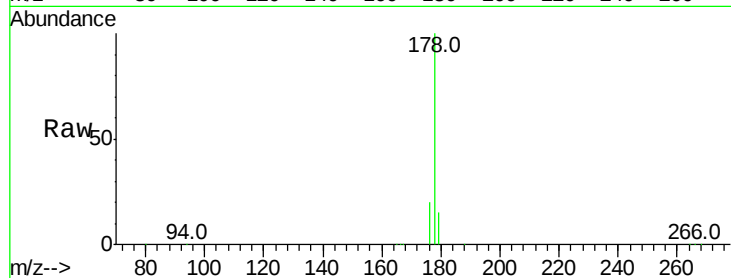
Tot Ion:178 Resp: 44794

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 15.1  | 18.4  | 27.6# |
| 176 | 19.7  | 13.6  | 20.4  |

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#13

Anthracene

Concen: 0.110 ng/ul

RT: 17.87 min Scan# 2019

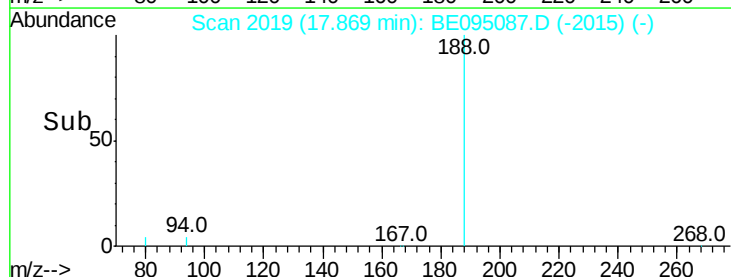
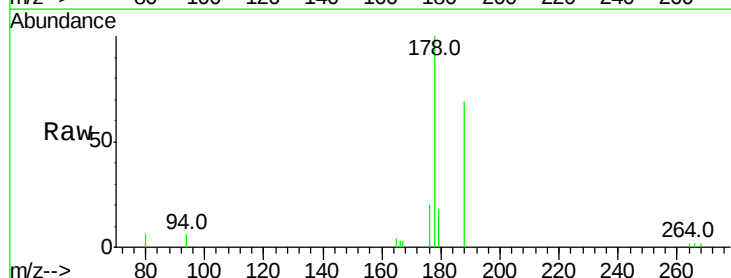
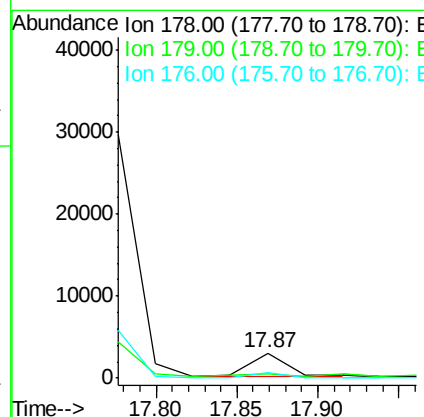
Delta R.T. 0.00 min

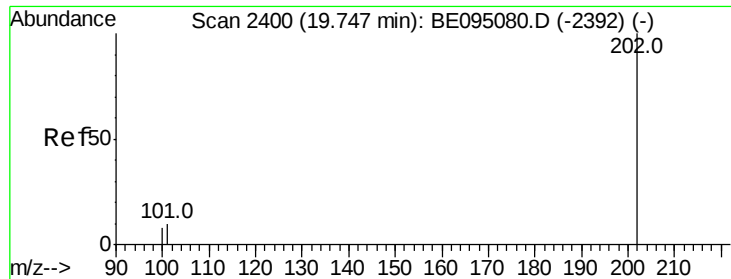
Lab File: BE095087.D

Acq: 20 Jan 2018 13:34

Tgt Ion:178 Resp: 4558

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 179 | 17.5  | 18.1  | 27.1# |
| 176 | 20.0  | 14.7  | 22.1  |





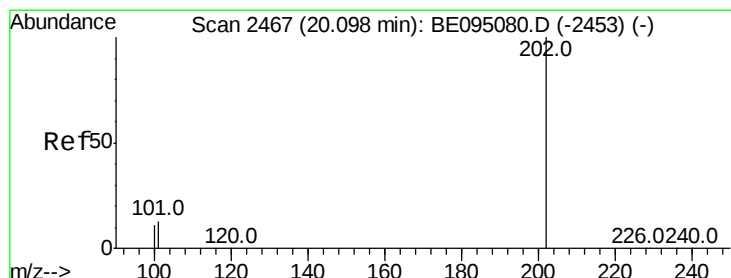
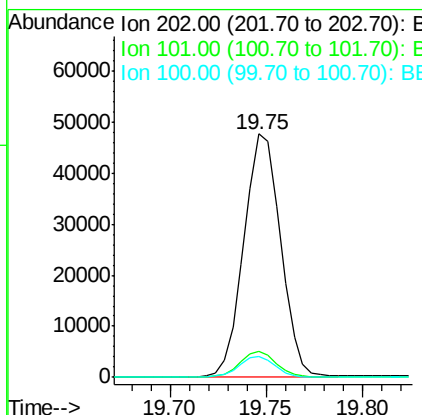
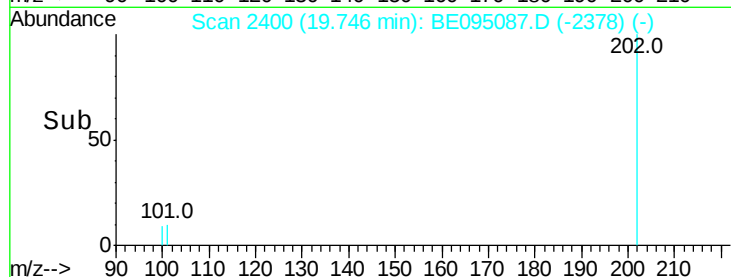
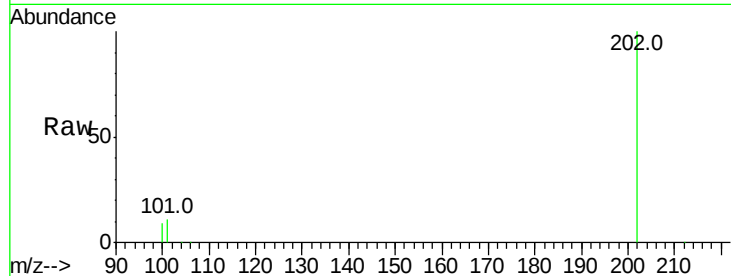
#15  
**Fluoranthene**  
 Concen: 1.034 ng/ul  
 RT: 19.75 min Scan# 2400  
 Delta R.T. -0.00 min  
 Lab File: BE095087.D  
 Acq: 20 Jan 2018 13:34

Instrument :  
 BNA\_E  
 ClientSampleId :  
 B0AE6DL

| Tot Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 62860 |       |       |
| 101     | 10.7  |       | 0.0   | 30.3  |
| 100     | 8.7   |       | 0.0   | 39.5  |

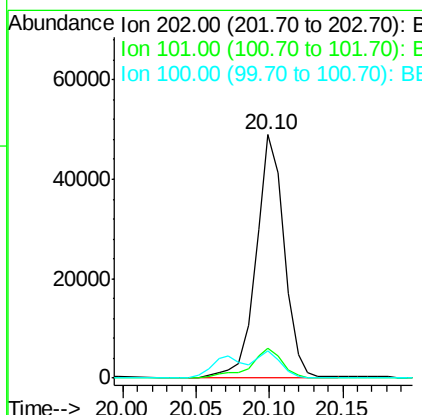
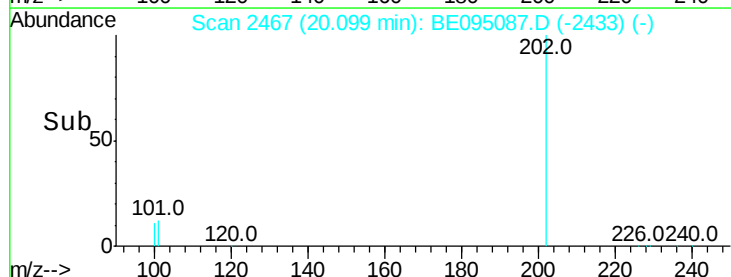
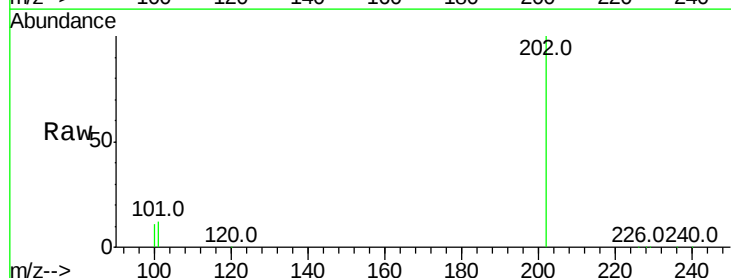
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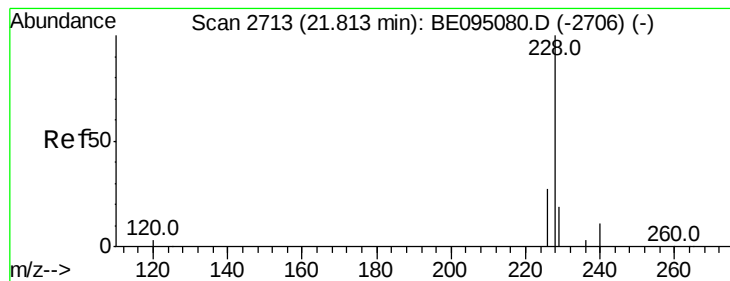
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 1/22/2018 5:22:34 PM



#17  
**Pyrene**  
 Concen: 0.870 ng/ul  
 RT: 20.10 min Scan# 2467  
 Delta R.T. 0.00 min  
 Lab File: BE095087.D  
 Acq: 20 Jan 2018 13:34

| Tgt Ion | Ratio | Resp  | Lower | Upper |
|---------|-------|-------|-------|-------|
| 202     | 100   | 64680 |       |       |
| 101     | 12.4  |       | 18.2  | 27.4# |
| 100     | 11.0  |       | 15.6  | 23.4# |





#18

Benzo(a)anthracene

Concen: 0.481 ng/ul

RT: 21.81 min Scan# 2713

Delta R.T. -0.00 min

Lab File: BE095087.D

Acq: 20 Jan 2018 13:34

Instrument :

BNA\_E

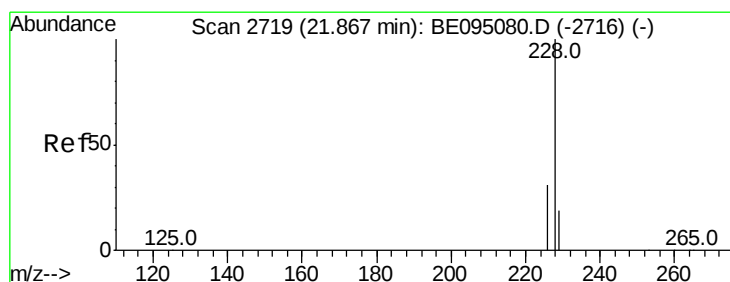
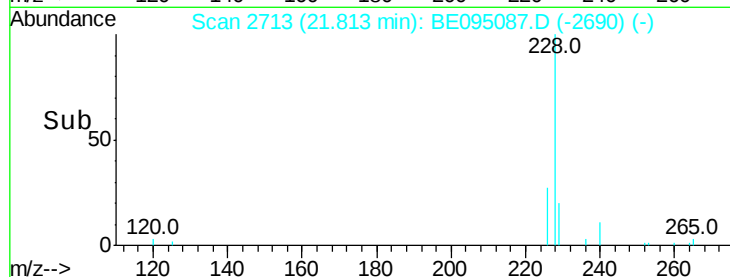
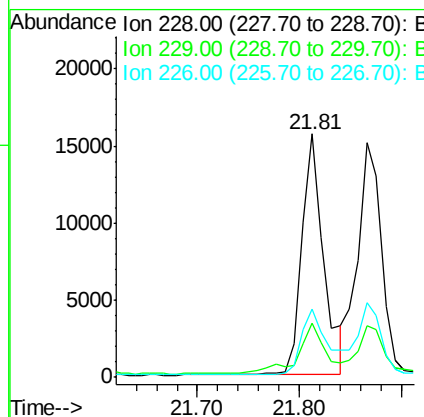
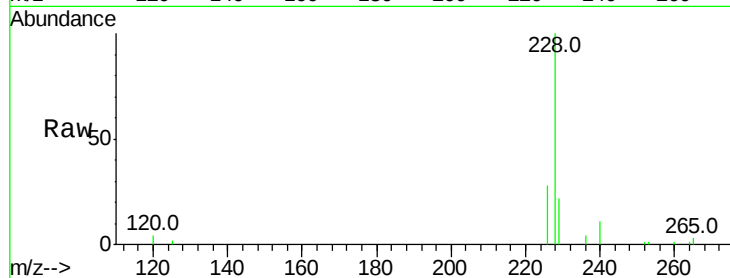
ClientSampleId :

B0AE6DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 27226 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 22.1  | 22.8  | 34.2# |
| 226       | 28.0  | 17.0  | 25.6# |

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#19

Chrysene

Concen: 0.389 ng/ul

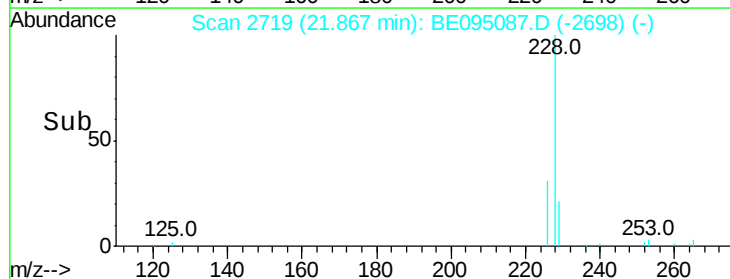
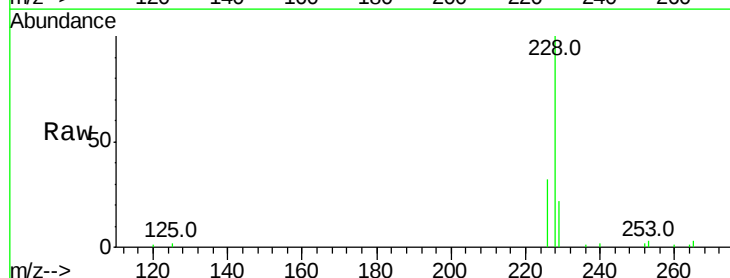
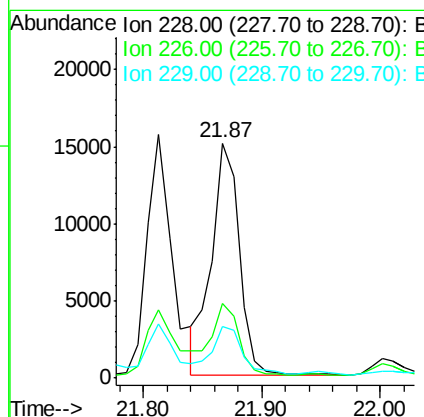
RT: 21.87 min Scan# 2719

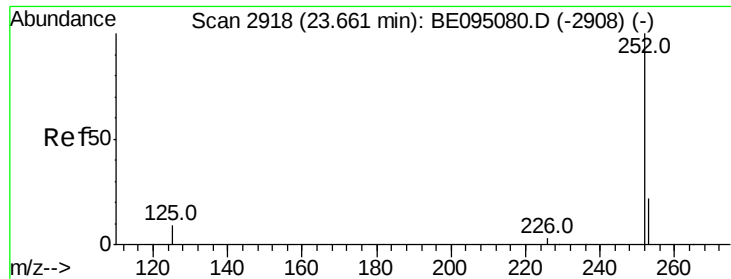
Delta R.T. -0.00 min

Lab File: BE095087.D

Acq: 20 Jan 2018 13:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 24566 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.7  | 23.4  | 35.0  |
| 229       | 22.1  | 17.7  | 26.5  |





#21

Benzo(b)fluoranthene

Concen: 0.367 ng/ul m

RT: 23.66 min Scan# 2918

Delta R.T. -0.00 min

Lab File: BE095087.D

Acq: 20 Jan 2018 13:34

Instrument :

BNA\_E

ClientSampleId :

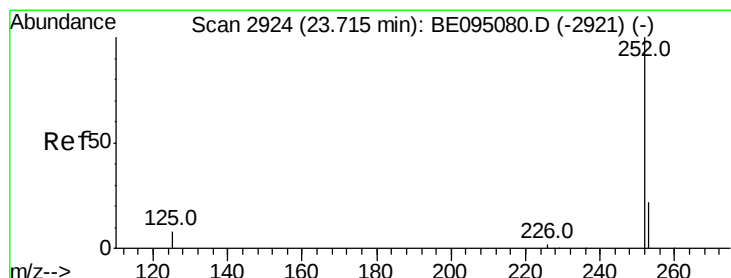
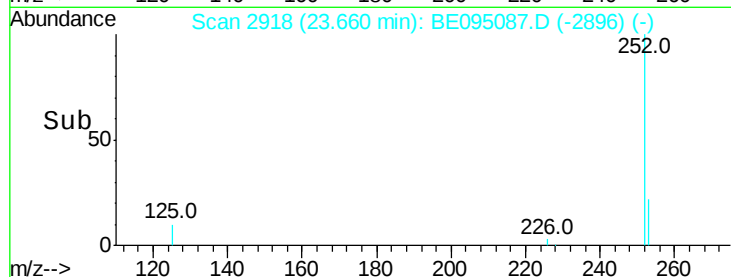
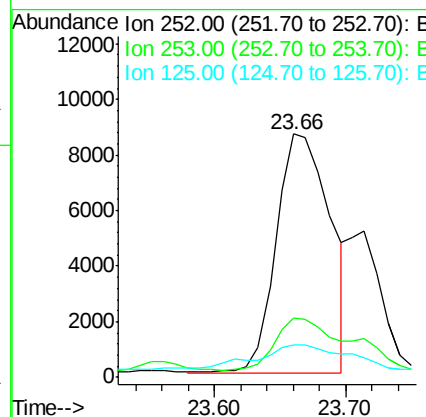
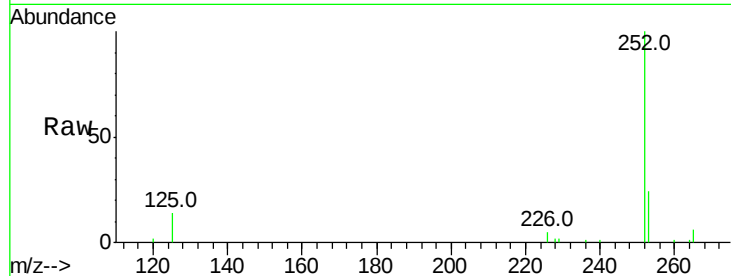
B0AE6DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 252   | Resp: | 24816 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.3  | 0.0   | 64.2  |
| 125       | 13.5  | 0.0   | 35.0  |

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#22

Benzo(k)fluoranthene

Concen: 0.139 ng/ul m

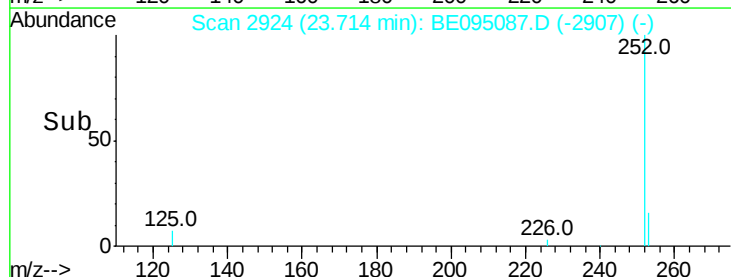
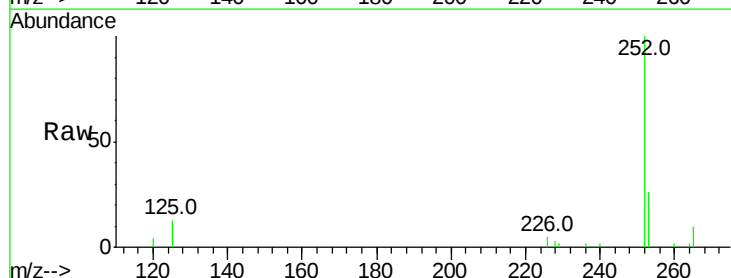
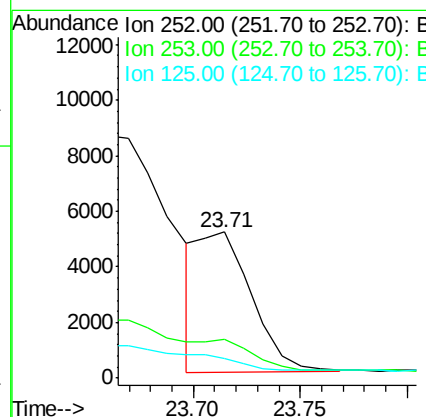
RT: 23.71 min Scan# 2924

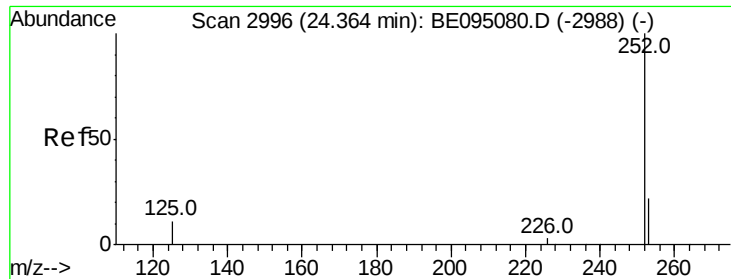
Delta R.T. -0.00 min

Lab File: BE095087.D

Acq: 20 Jan 2018 13:34

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 8677  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.5  | 24.5  | 36.7  |
| 125       | 13.1  | 13.7  | 20.5# |





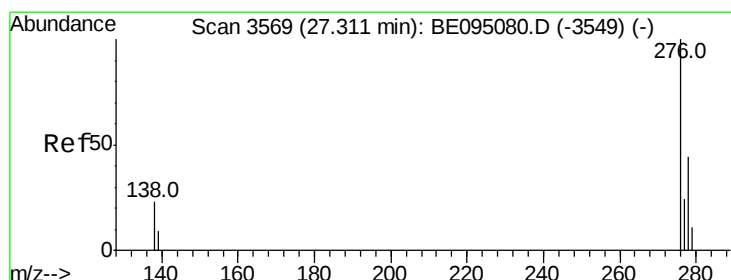
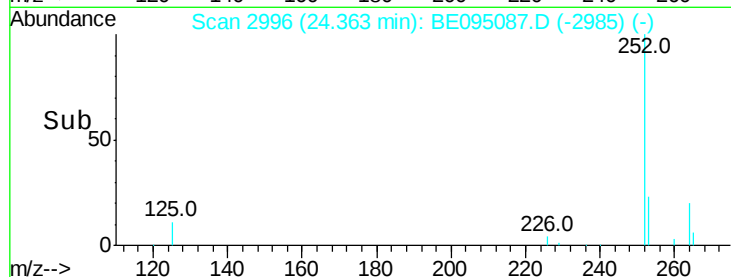
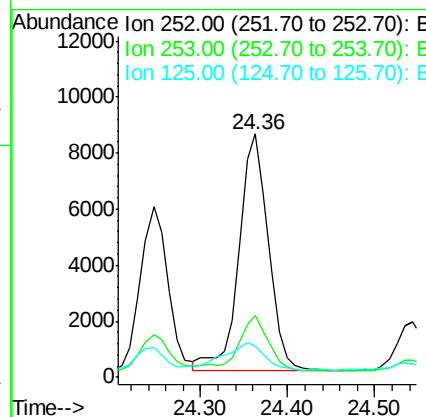
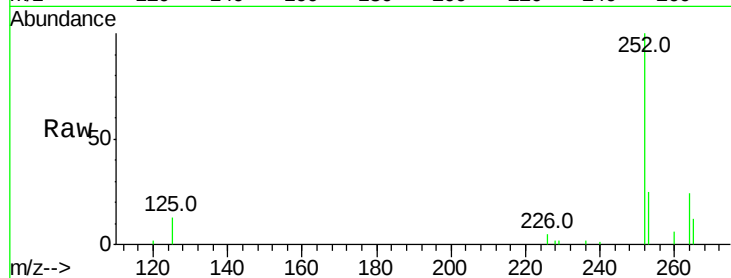
#23  
Benzo(a)pyrene  
Concen: 0.342 ng/ul  
RT: 24.36 min Scan# 2996  
Delta R.T. -0.00 min  
Lab File: BE095087.D  
Acq: 20 Jan 2018 13:34

Instrument :  
BNA\_E  
ClientSampleId :  
B0AE6DL

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 25.1  | 28.5       | 42.7# |
| 125     | 12.9  | 18.1       | 27.1# |

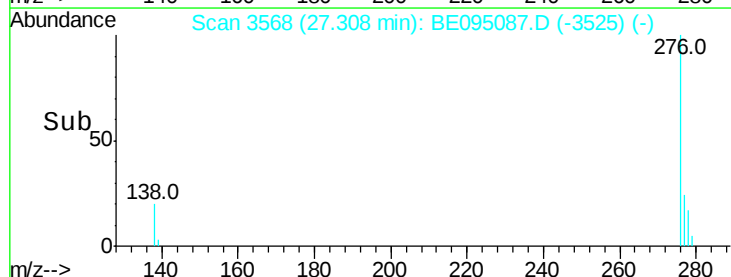
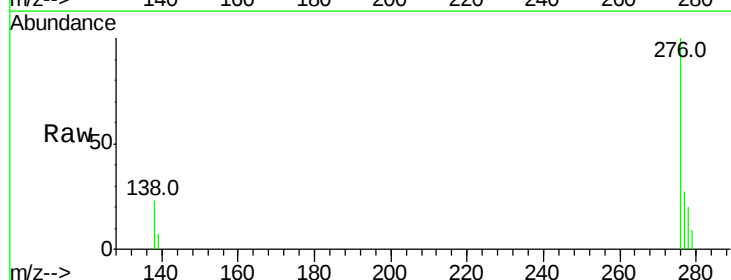
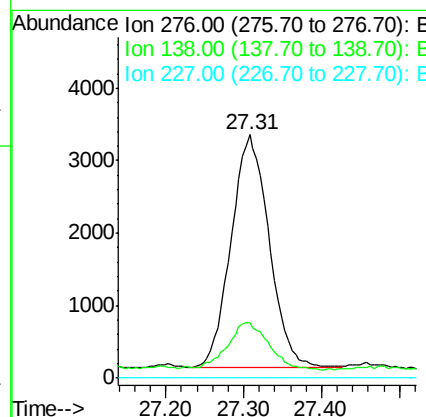
Manual Integrations  
APPROVED

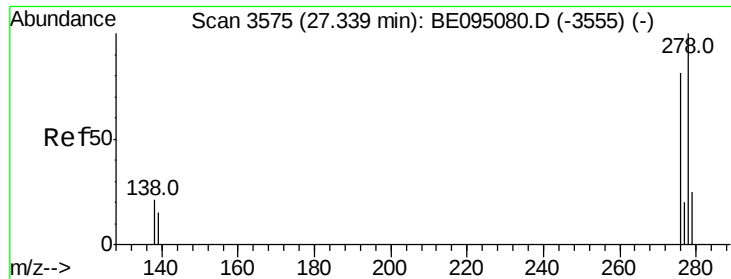
Sohil  
1/22/2018 5:22:34 PM



#24  
Indeno(1,2,3-cd)pyrene  
Concen: 0.212 ng/ul  
RT: 27.31 min Scan# 3568  
Delta R.T. -0.00 min  
Lab File: BE095087.D  
Acq: 20 Jan 2018 13:34

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 276     | 100   |            |       |
| 138     | 21.8  | 28.0       | 42.0# |
| 227     | 0.0   | 8.0        | 12.0# |





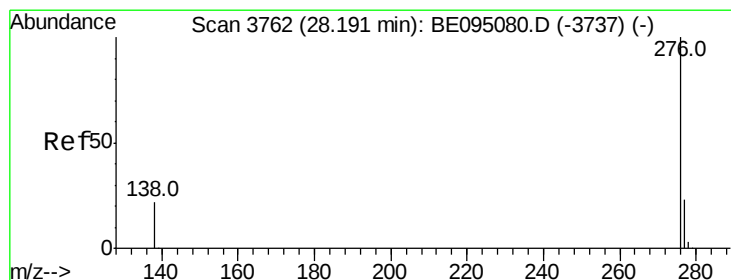
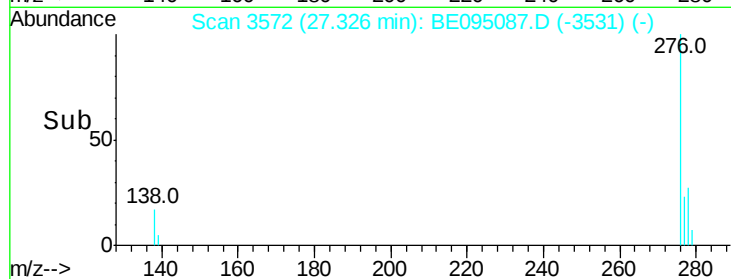
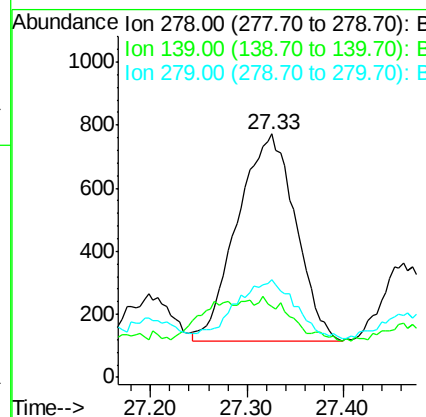
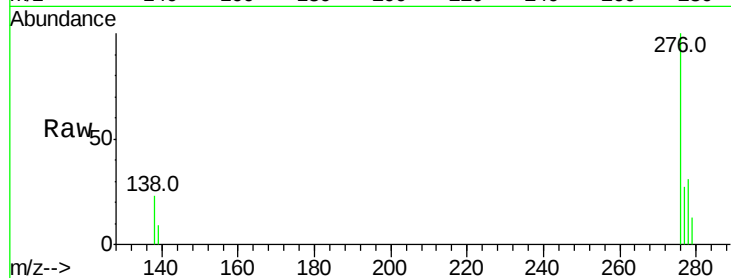
#25  
Dibenzo(a,h)anthracene  
Concen: 0.075 ng/u1  
RT: 27.33 min Scan# 3572  
Delta R.T. -0.01 min  
Lab File: BE095087.D  
Acq: 20 Jan 2018 13:34

Instrument :  
BNA\_E  
ClientSampled :  
B0AE6DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 29.1  | 17.4  | 26.0# |
| 279     | 40.2  | 25.9  | 38.9# |

Manual Integrations  
APPROVED

Sohil  
1/22/2018 5:22:34 PM



#26  
Benzo(g,h,i)perylene  
Concen: 0.196 ng/u1  
RT: 28.19 min Scan# 3761  
Delta R.T. -0.00 min  
Lab File: BE095087.D  
Acq: 20 Jan 2018 13:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 25.7  | 21.8  | 32.8  |
| 277     | 25.5  | 20.5  | 30.7  |

