

Data Path : Z:\HPCHEM1\BNA E\DATA\BE042018\  
 Data File : BE096064.D  
 Acq On : 21 Apr 2018 5:25  
 Operator : SJ/JU  
 Sample : J2434-03  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_E  
 ClientSampleId :  
 C0AB8

Manual Integrations  
 APPROVED

Sohil  
 4/23/2018 6:44:20 PM

Quant Time: Apr 23 02:28:10 2018  
 Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE040618.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Mon Apr 23 01:07:45 2018  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 8.38  | 152  | 2005     | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 11.20 | 136  | 5542     | 0.40   | ng/ul  | 0.00     |
| 6) Acenaphthene-d10         | 14.97 | 164  | 3307     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.68 | 188  | 7388m    | 0.40   | ng/ul  | 0.00     |
| 16) Chrysene-d12            | 21.77 | 240  | 7330m    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 24.38 | 264  | 7545     | 0.40   | ng/ul  | 0.00     |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.76 | 152  | 1640     | 0.16   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.66 | 212  | 4672m    | 0.15   | ng/ul  | 0.00     |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 11.25 | 128  | 438      | 0.028  | ng/ul# | 61       |
| 7) Acenaphthylene           | 14.70 | 152  | 376      | 0.022  | ng/ul# | 64       |
| 8) Acenaphthene             | 15.03 | 153  | 361      | 0.029  | ng/ul# | 92       |
| 9) Fluorene                 | 16.00 | 166  | 438      | 0.032  | ng/ul# | 84       |
| 12) Phenanthrene            | 17.72 | 178  | 11047m   | 0.507  | ng/ul  |          |
| 13) Anthracene              | 17.80 | 178  | 2104m    | 0.097  | ng/ul  |          |
| 15) Fluoranthene            | 19.68 | 202  | 34747m   | 1.173  | ng/ul  |          |
| 17) Pyrene                  | 20.04 | 202  | 31798    | 1.277  | ng/ul# | 78       |
| 18) Benzo(a)anthracene      | 21.75 | 228  | 21184m   | 0.715  | ng/ul  |          |
| 19) Chrysene                | 21.80 | 228  | 16513m   | 0.775  | ng/ul  |          |
| 21) Benzo(b)fluoranthene    | 23.57 | 252  | 18929m   | 0.775  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 23.62 | 252  | 7239m    | 0.298  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 24.26 | 252  | 14236    | 0.604  | ng/ul# | 80       |
| 24) Indeno(1,2,3-cd)pyrene  | 27.16 | 276  | 8428     | 0.322  | ng/ul# | 74       |
| 25) Dibenzo(a,h)anthracene  | 27.17 | 278  | 2237     | 0.106  | ng/ul# | 87       |
| 26) Benzo(a,h,i)perylene    | 28.03 | 276  | 7573     | 0.346  | ng/ul  | 95       |

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

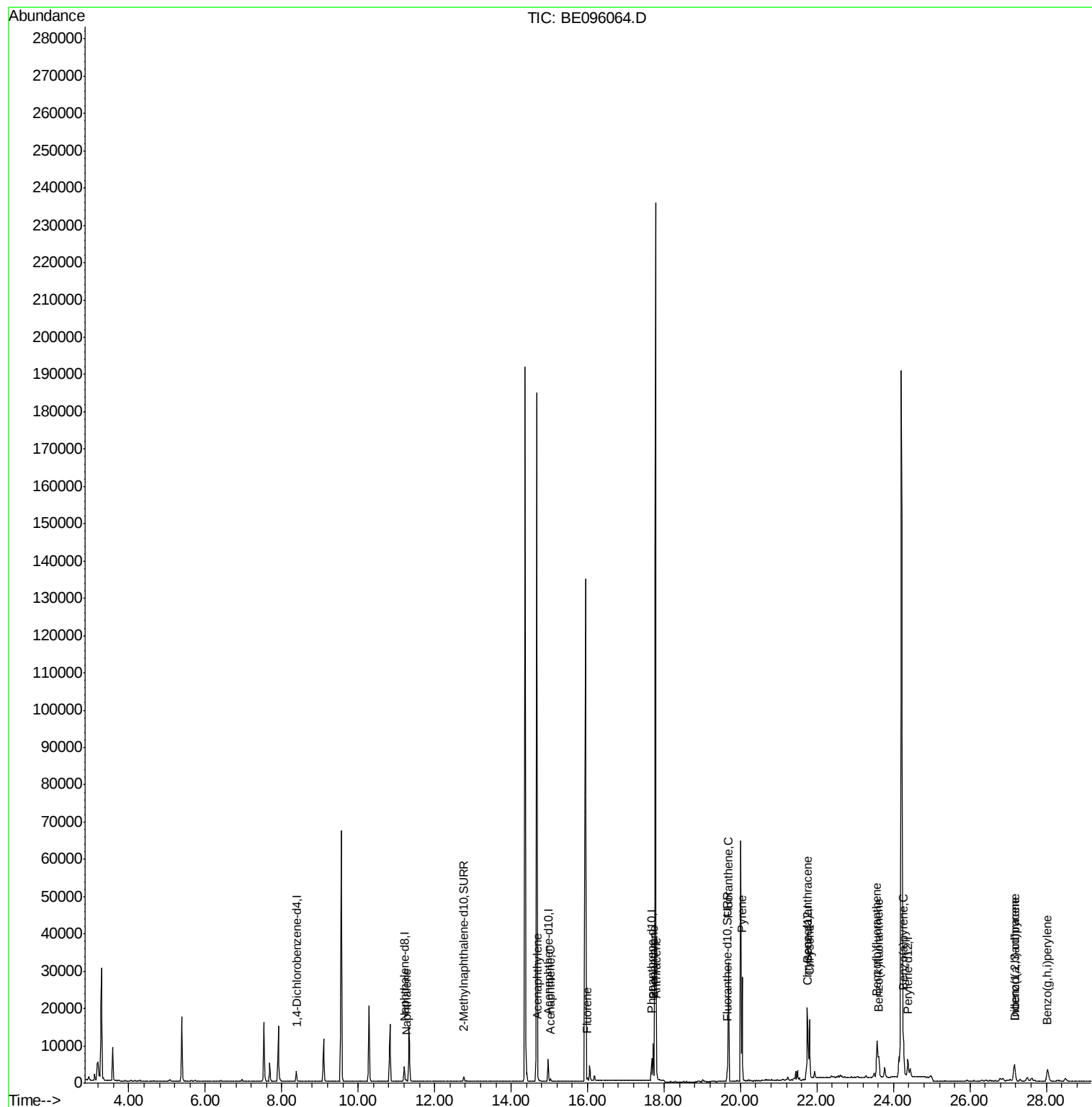
Data Path : Z:\HPCHEM1\BNA E\DATA\BE042018\  
Data File : BE096064.D  
Acq On : 21 Apr 2018 5:25  
Operator : SJ/JU  
Sample : J2434-03  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

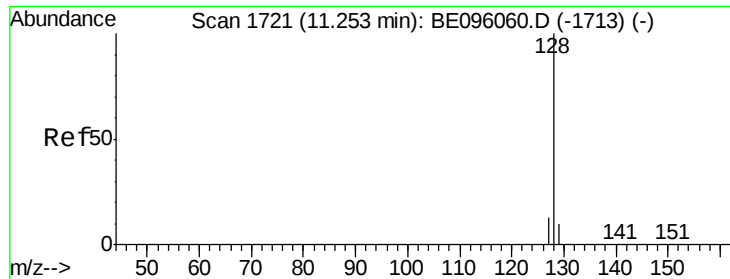
Instrument :  
BNA\_E  
ClientSampleId :  
C0AB8

Manual Integrations  
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Quant Time: Apr 23 02:28:10 2018  
Quant Method : Z:\HPCHEM1\BNA E\METHODS\SOM-EPA-SIM-BE040618.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Apr 23 01:07:45 2018  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.028 ng/ul

RT: 11.25 min Scan# 1721

Delta R.T. -0.00 min

Lab File: BE096064.D

Acq: 21 Apr 2018 5:25

Instrument :

BNA\_E

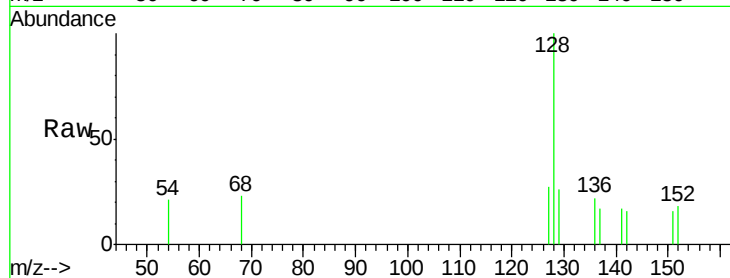
ClientSampleId :

C0AB8

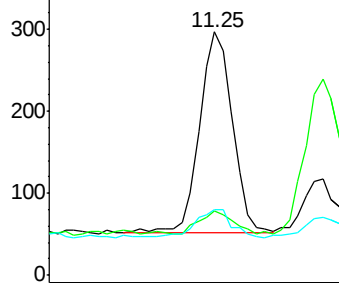
|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 438   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 26.3  | 11.3  | 16.9# |
| 127       | 26.9  | 4.0   | 6.0#  |

Manual Integrations  
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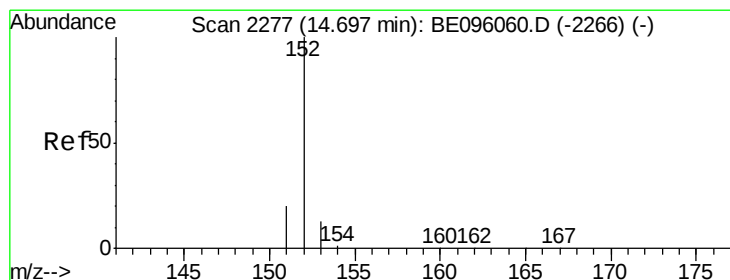
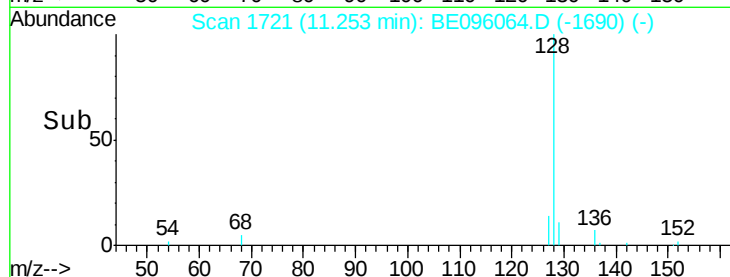
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Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E



Time-->



#7

Acenaphthylene

Concen: 0.022 ng/ul

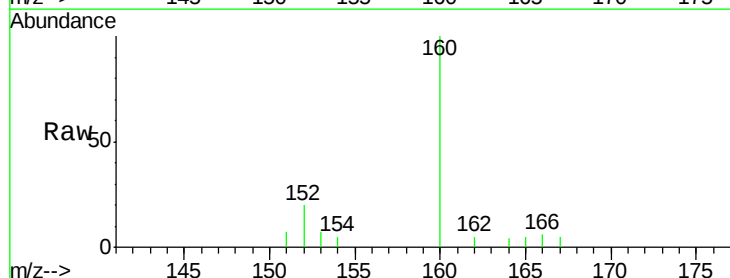
RT: 14.70 min Scan# 2278

Delta R.T. 0.01 min

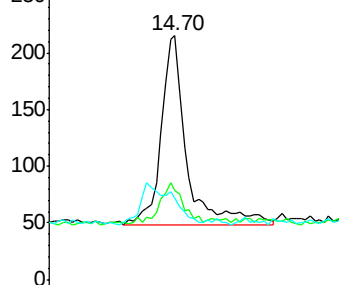
Lab File: BE096064.D

Acq: 21 Apr 2018 5:25

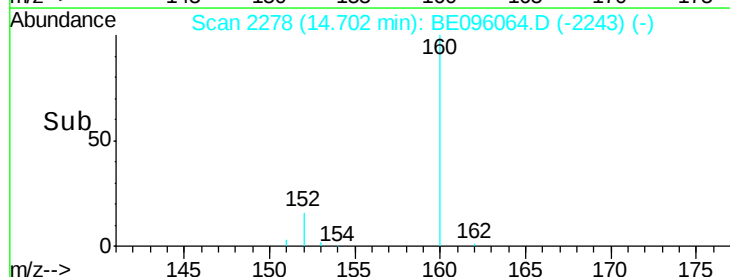
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 376   |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 36.7  | 17.1  | 25.7# |
| 153       | 33.5  | 12.8  | 19.2# |

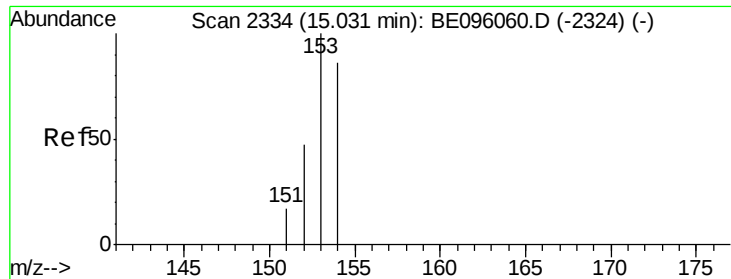


Abundance Ion 152.00 (151.70 to 152.70): E  
Ion 151.00 (150.70 to 151.70): E  
Ion 153.00 (152.70 to 153.70): E



Time-->





#8

Acenaphthene

Concen: 0.029 ng/ul

RT: 15.03 min Scan# 2334

Delta R.T. -0.00 min

Lab File: BE096064.D

Acq: 21 Apr 2018 5:25

Instrument :

BNA\_E

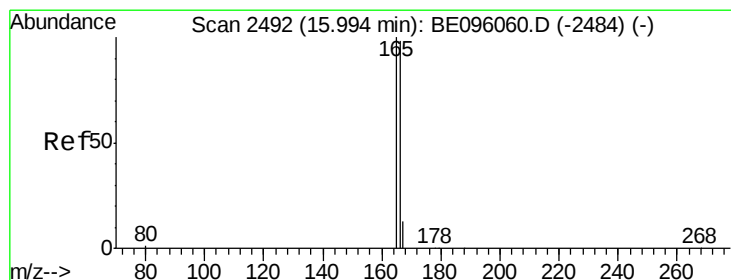
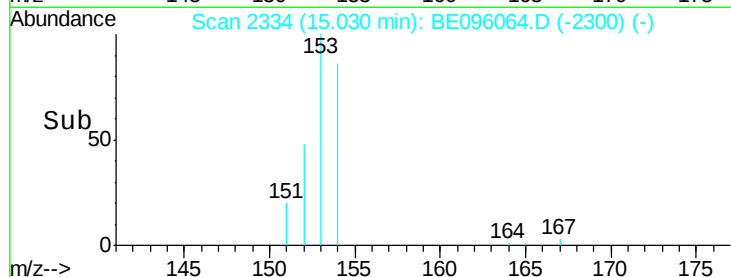
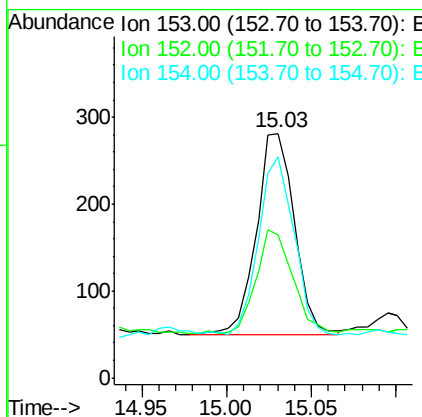
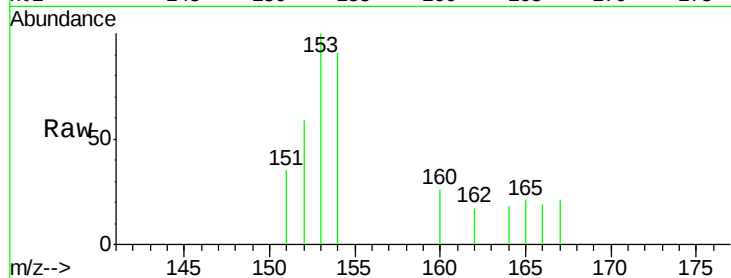
ClientSampleId :

C0AB8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 153   | Resp: | 361    |
| Ion Ratio | Lower | Upper |        |
| 153       | 100   |       |        |
| 152       | 58.7  | 36.0  | 54.0#  |
| 154       | 90.7  | 72.0  | 108.0# |

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#9

Fluorene

Concen: 0.032 ng/ul

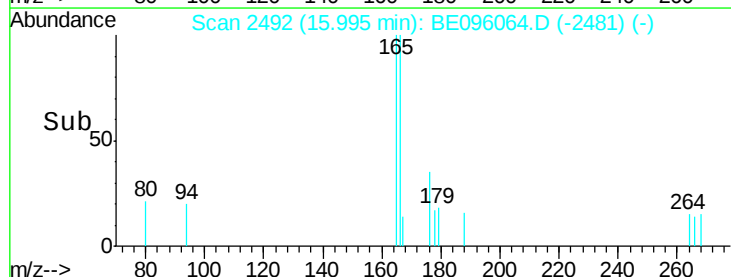
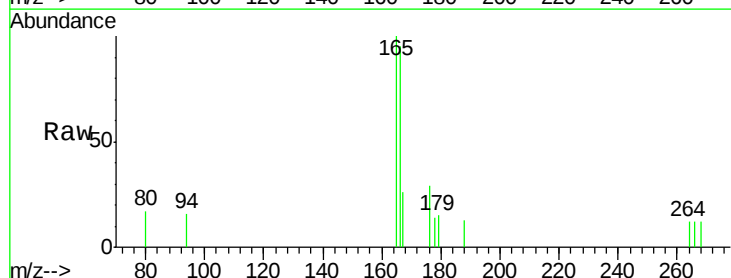
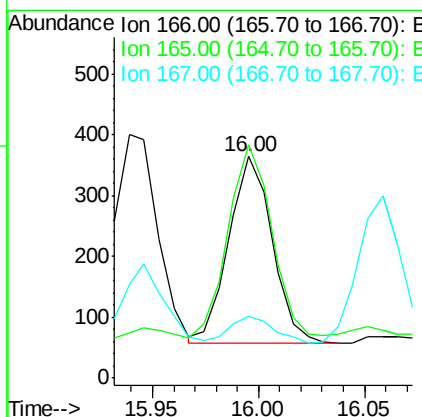
RT: 16.00 min Scan# 2492

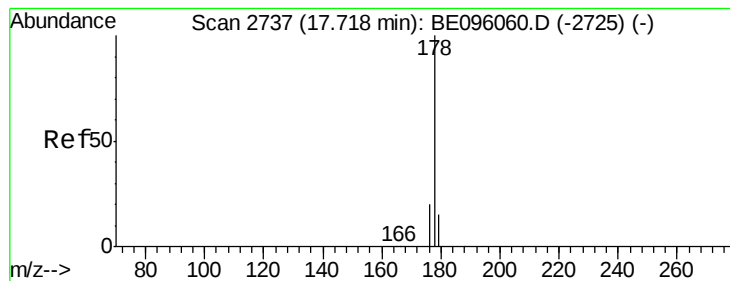
Delta R.T. 0.00 min

Lab File: BE096064.D

Acq: 21 Apr 2018 5:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 438   |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 105.5 | 73.4  | 110.2 |
| 167       | 27.7  | 14.6  | 22.0# |





#12

Phenanthrene

Concen: 0.507 ng/ul m

RT: 17.72 min Scan# 2737

Delta R.T. 0.00 min

Lab File: BE096064.D

Acq: 21 Apr 2018 5:25

Instrument :

BNA\_E

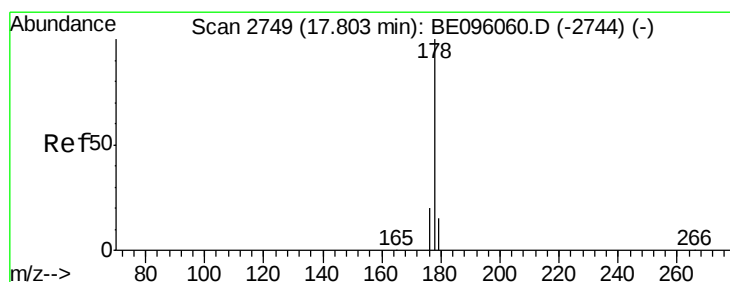
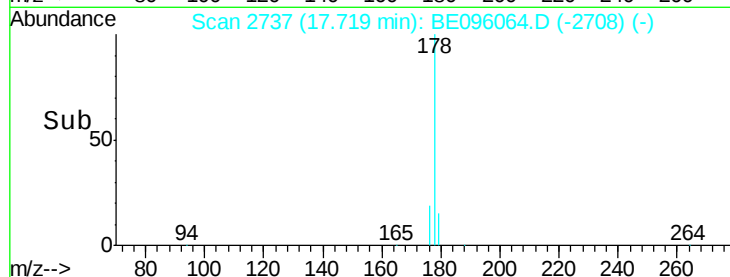
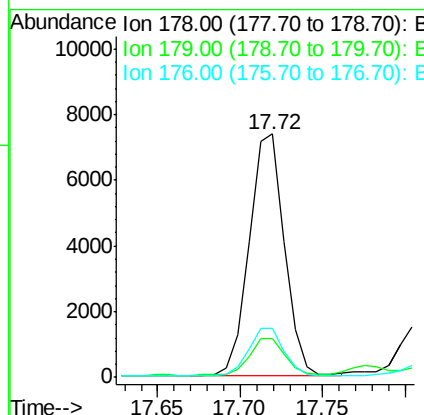
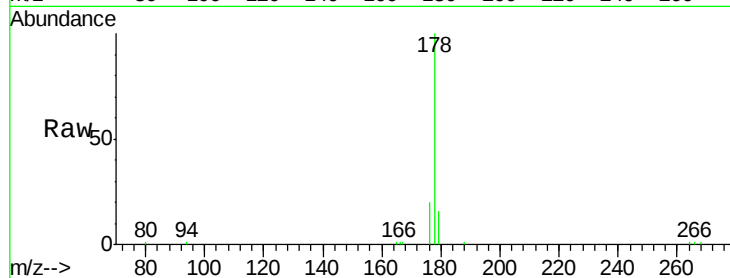
ClientSampleId :

C0AB8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.7  | 18.4  | 27.6# |
| 176     | 20.0  | 13.6  | 20.4  |

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#13

Anthracene

Concen: 0.097 ng/ul m

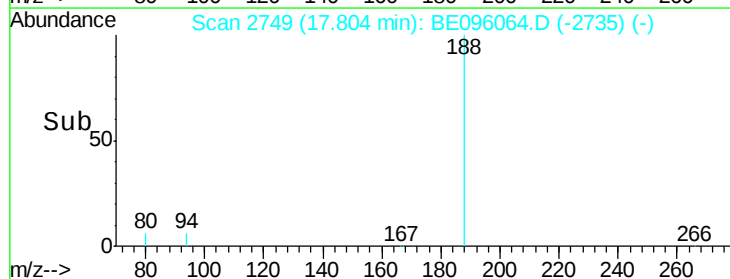
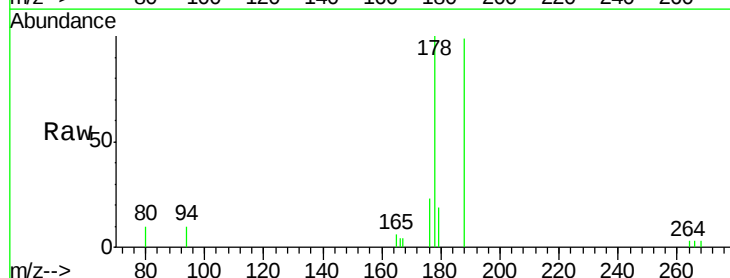
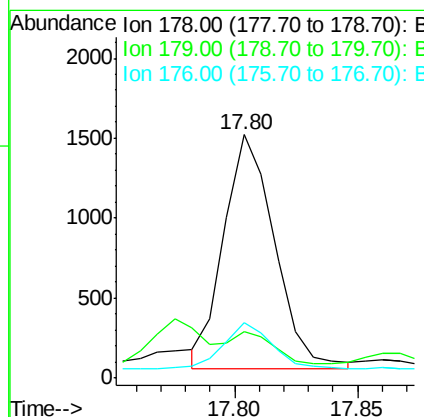
RT: 17.80 min Scan# 2749

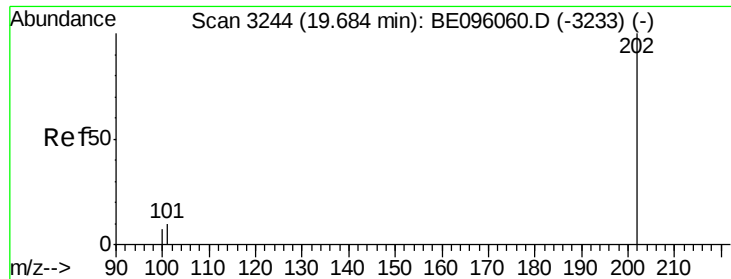
Delta R.T. 0.00 min

Lab File: BE096064.D

Acq: 21 Apr 2018 5:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 19.0  | 18.1  | 27.1  |
| 176     | 22.7  | 14.7  | 22.1# |





#15

Fluoranthene

Concen: 1.173 ng/ul m

RT: 19.68 min Scan# 3243

Delta R.T. -0.00 min

Lab File: BE096064.D

Acq: 21 Apr 2018 5:25

Instrument :

BNA\_E

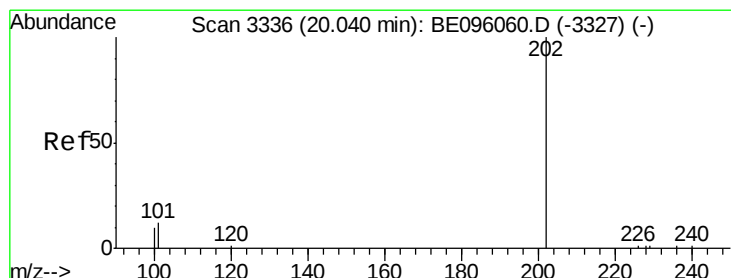
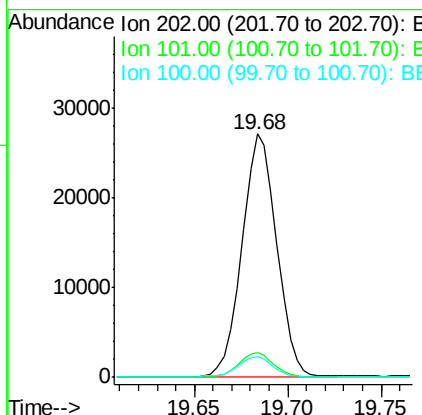
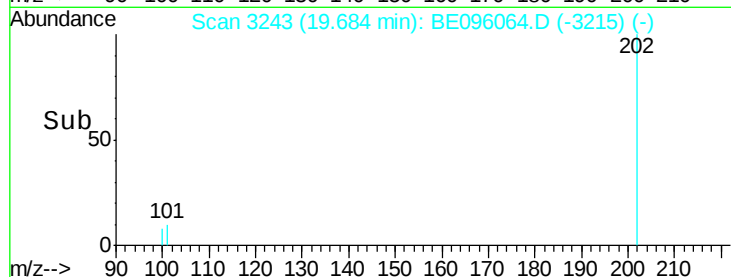
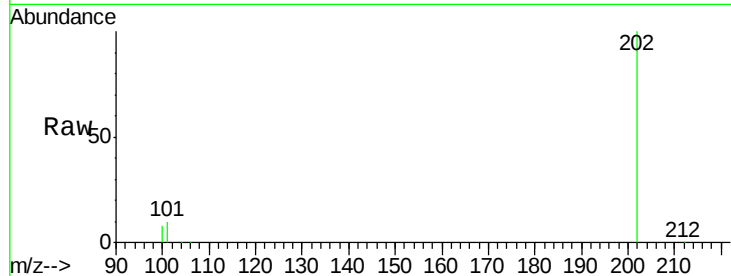
ClientSampled :

C0AB8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 34747 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.0  | 0.0   | 30.3  |
| 100       | 8.4   | 0.0   | 39.5  |

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#17

Pyrene

Concen: 1.277 ng/ul

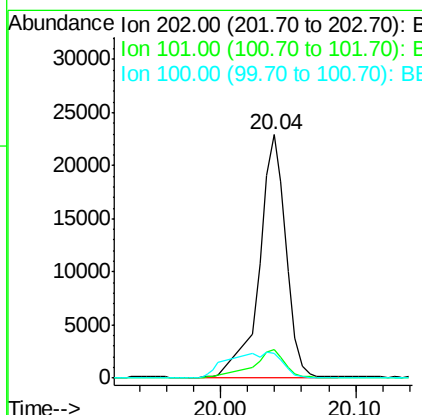
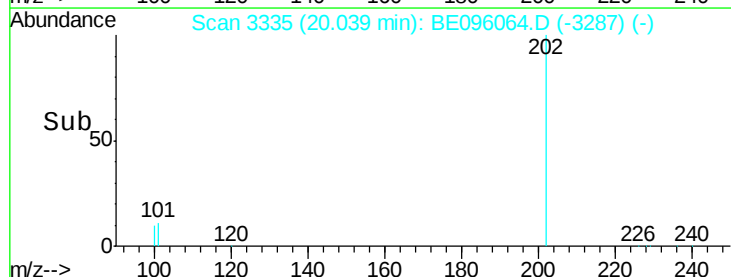
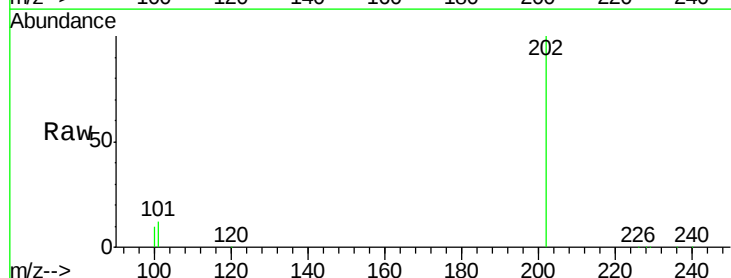
RT: 20.04 min Scan# 3335

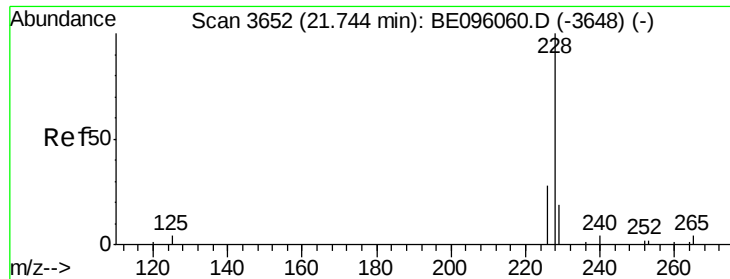
Delta R.T. -0.00 min

Lab File: BE096064.D

Acq: 21 Apr 2018 5:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 202   | Resp: | 31798 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 11.6  | 18.2  | 27.4# |
| 100       | 10.4  | 15.6  | 23.4# |





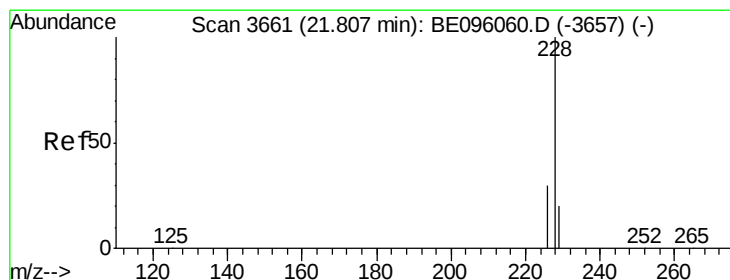
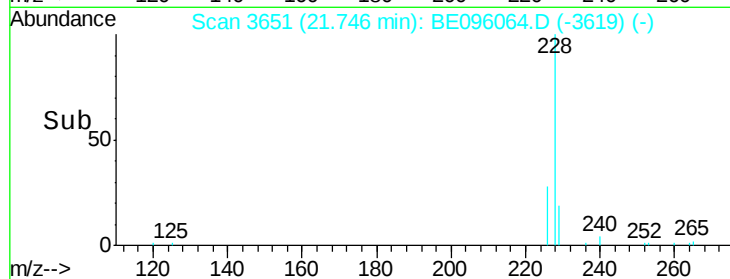
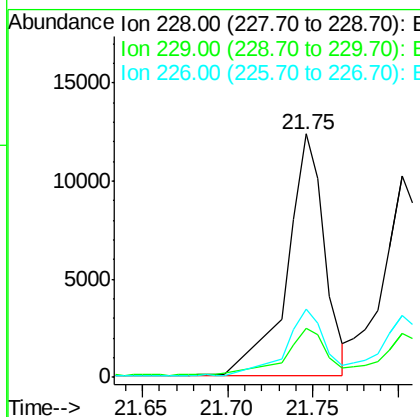
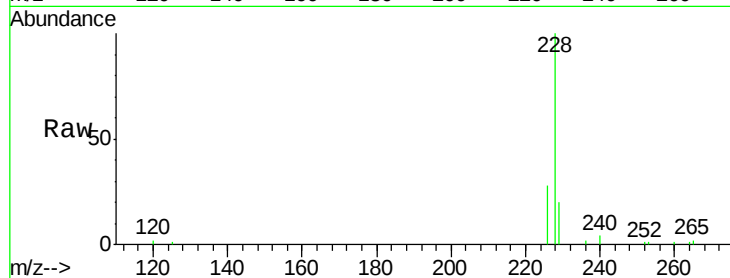
#18  
Benzo(a)anthracene  
Concen: 0.715 ng/ul m  
RT: 21.75 min Scan# 3651  
Delta R.T. 0.00 min  
Lab File: BE096064.D  
Acq: 21 Apr 2018 5:25

Instrument :  
BNA\_E  
ClientSampled :  
C0AB8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.4  | 22.8  | 34.2# |
| 226     | 28.3  | 17.0  | 25.6# |

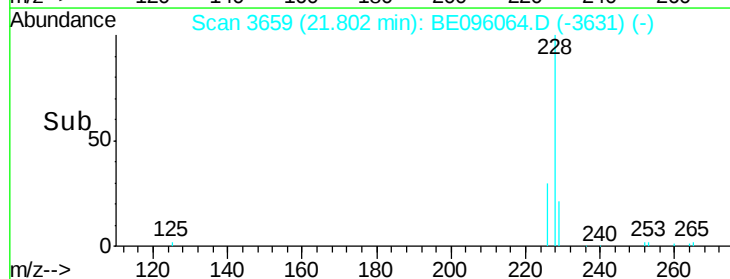
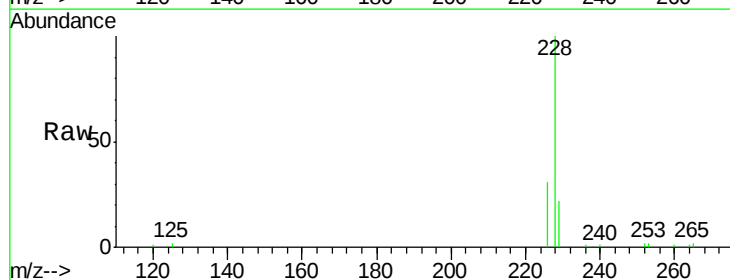
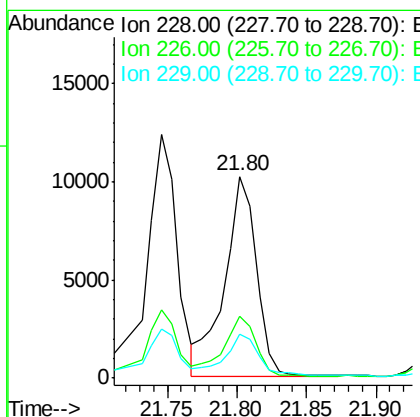
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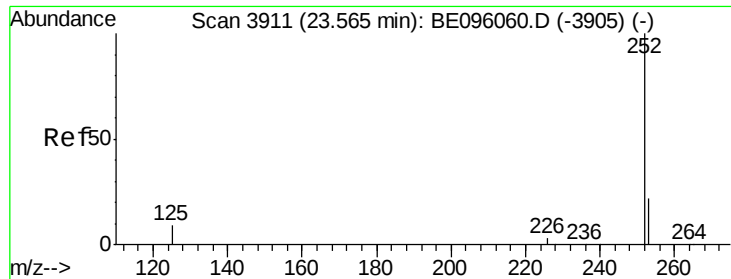
Sohil  
4/23/2018 6:44:20 PM



#19  
Chrysene  
Concen: 0.775 ng/ul m  
RT: 21.80 min Scan# 3659  
Delta R.T. -0.01 min  
Lab File: BE096064.D  
Acq: 21 Apr 2018 5:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.9  | 23.4  | 35.0  |
| 229     | 22.0  | 17.7  | 26.5  |





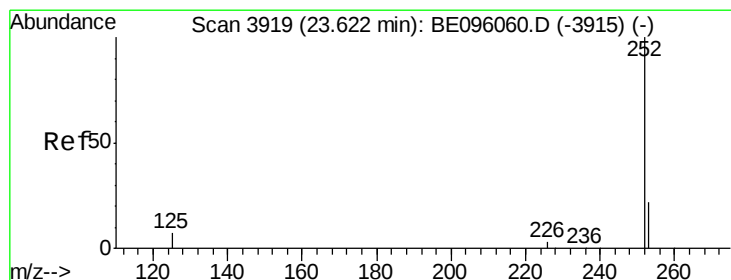
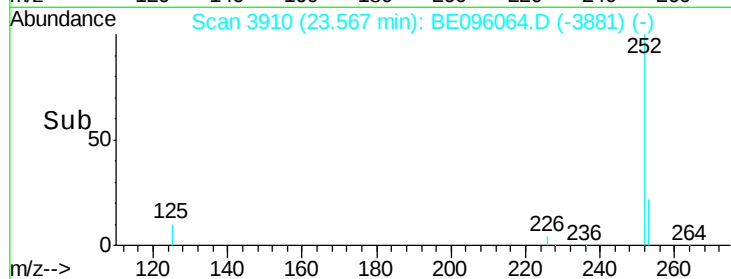
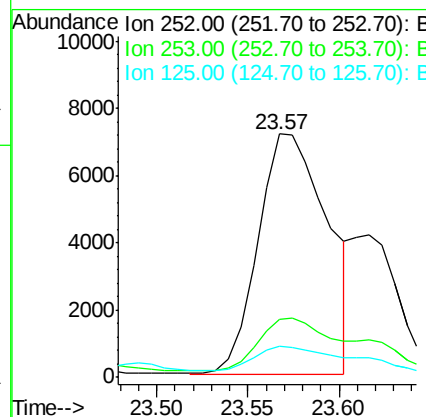
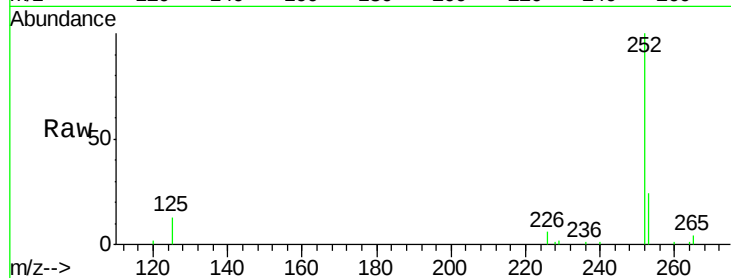
#21  
Benzo(b)fluoranthene  
Concen: 0.775 ng/ul m  
RT: 23.57 min Scan# 3910  
Delta R.T. 0.00 min  
Lab File: BE096064.D  
Acq: 21 Apr 2018 5:25

Instrument :  
BNA\_E  
ClientSampleId :  
C0AB8

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 24.1  | 0.0        | 64.2  |
| 125     | 12.6  | 0.0        | 35.0  |

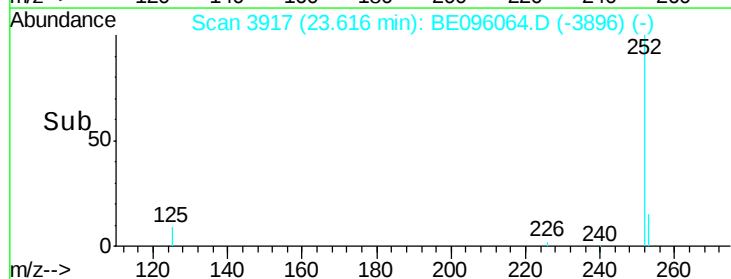
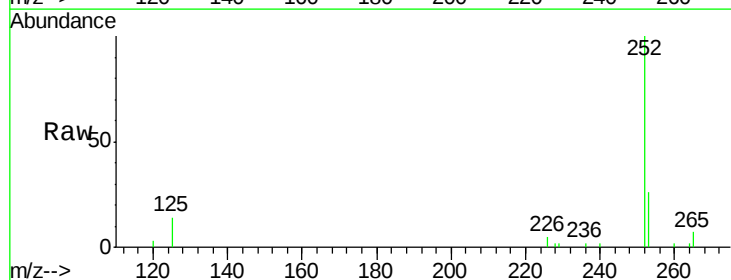
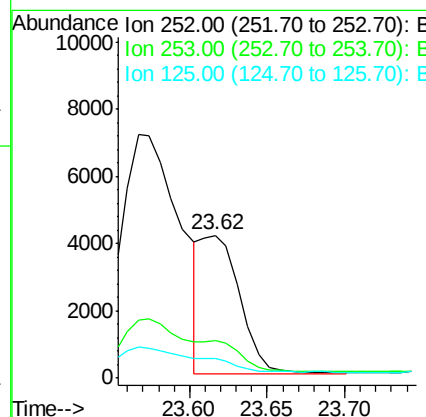
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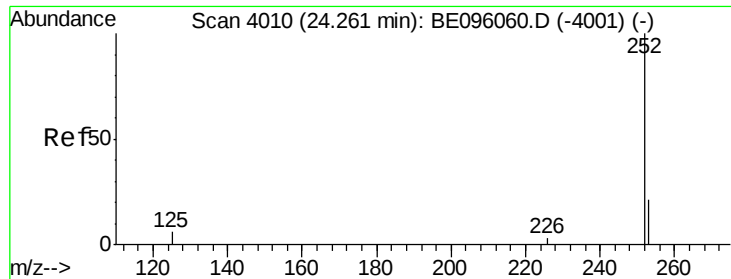
Sohil  
4/23/2018 6:44:20 PM



#22  
Benzo(k)fluoranthene  
Concen: 0.298 ng/ul m  
RT: 23.62 min Scan# 3917  
Delta R.T. -0.01 min  
Lab File: BE096064.D  
Acq: 21 Apr 2018 5:25

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 252     | 100   |            |       |
| 253     | 26.1  | 24.5       | 36.7  |
| 125     | 13.8  | 13.7       | 20.5  |





#23

Benzo(a)pyrene

Concen: 0.604 ng/ul

RT: 24.26 min Scan# 4009

Delta R.T. 0.00 min

Lab File: BE096064.D

Acq: 21 Apr 2018 5:25

Instrument :

BNA\_E

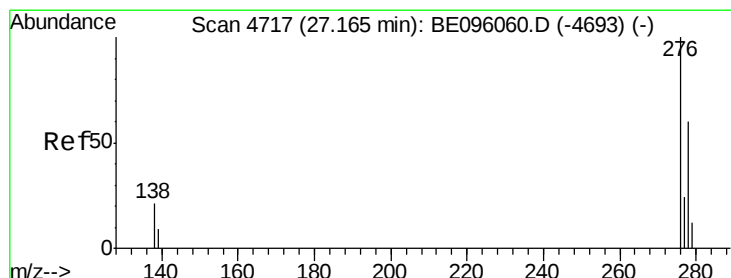
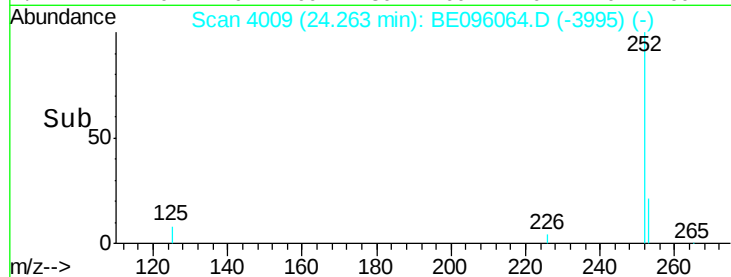
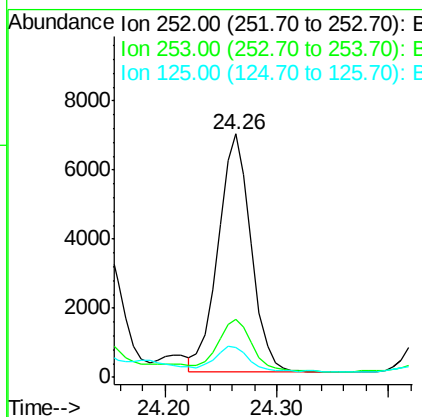
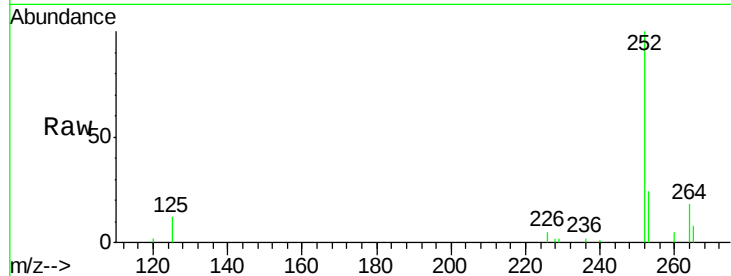
ClientSampleId :

C0AB8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.8  | 28.5  | 42.7# |
| 125     | 12.5  | 18.1  | 27.1# |

Manual Integrations  
APPROVED

Sohil  
4/23/2018 6:44:20 PM



#24

Indeno(1,2,3-cd)pyrene

Concen: 0.322 ng/ul

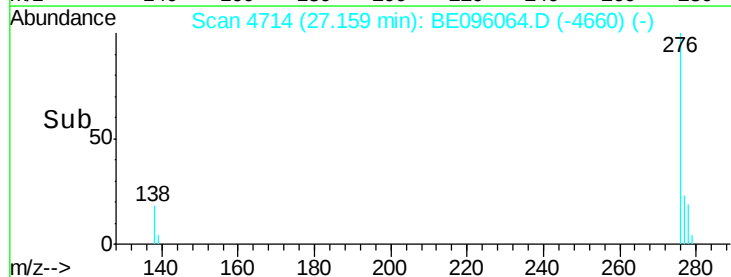
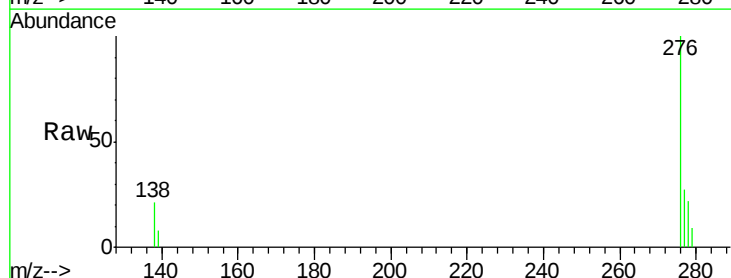
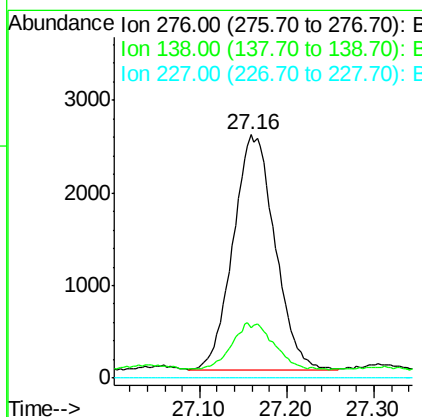
RT: 27.16 min Scan# 4714

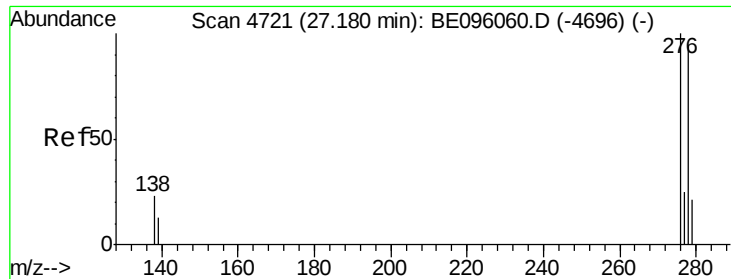
Delta R.T. -0.01 min

Lab File: BE096064.D

Acq: 21 Apr 2018 5:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 20.1  | 28.0  | 42.0# |
| 227     | 0.0   | 8.0   | 12.0# |





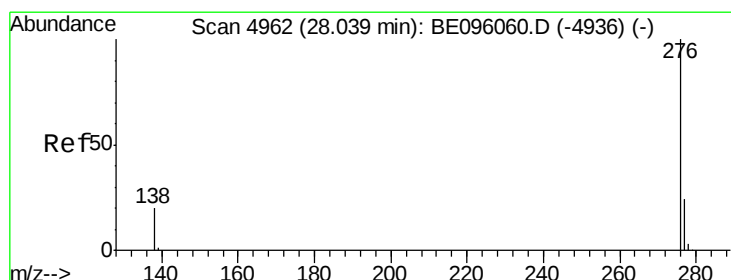
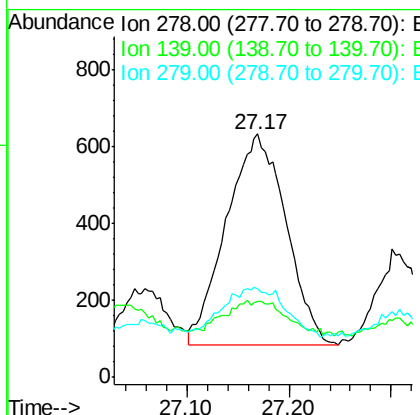
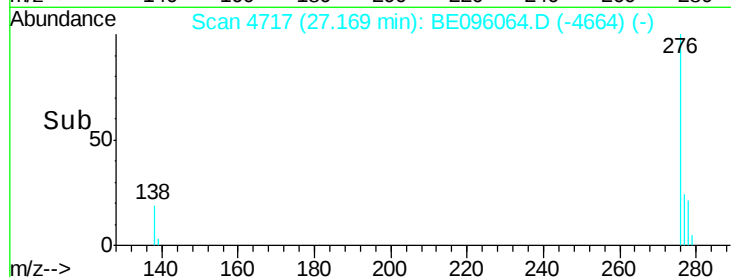
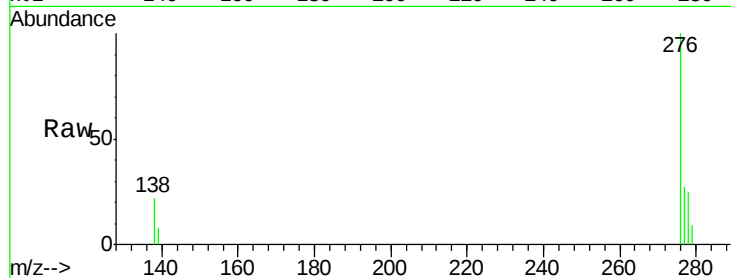
#25  
Dibenzo(a,h)anthracene  
Concen: 0.106 ng/ul  
RT: 27.17 min Scan# 4717  
Delta R.T. -0.01 min  
Lab File: BE096064.D  
Acq: 21 Apr 2018 5:25

Instrument :  
BNA\_E  
ClientSampleId :  
C0AB8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 31.3  | 17.4  | 26.0# |
| 279     | 36.7  | 25.9  | 38.9  |

Manual Integrations  
APPROVED

Sohil  
4/23/2018 6:44:20 PM



#26  
Benzo(g,h,i)perylene  
Concen: 0.346 ng/ul  
RT: 28.03 min Scan# 4958  
Delta R.T. -0.01 min  
Lab File: BE096064.D  
Acq: 21 Apr 2018 5:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 23.1  | 21.8  | 32.8  |
| 277     | 26.5  | 20.5  | 30.7  |

