

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM081219\  
 Data File : BM022119.D  
 Acq On : 14 Aug 2019 21:53  
 Operator : HP/JU  
 Sample : K4304-05DL 5X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB5N6DL

Manual Integrations  
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Quant Time: Aug 15 11:16:51 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 14 13:53:23 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.60  | 152  | 1109     | 0.40   | ng/ul  | -0.01    |
| 2) Naphthalene-d8           | 10.38 | 136  | 4326     | 0.40   | ng/ul  | -0.03    |
| 6) Acenaphthene-d10         | 14.25 | 164  | 2177     | 0.40   | ng/ul  | -0.01    |
| 10) Phenanthrene-d10        | 17.01 | 188  | 4709     | 0.40   | ng/ul  | -0.02    |
| 16) Chrysene-d12            | 21.22 | 240  | 4799     | 0.40   | ng/ul  | -0.01    |
| 20) Perylene-d12            | 23.43 | 264  | 5109     | 0.40   | ng/ul  | -0.02    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.99 | 152  | 612      | 0.09   | ng/ul  | -0.02    |
| 14) Fluoranthene-d10        | 19.05 | 212  | 1424     | 0.09   | ng/ul  | -0.02    |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.43 | 128  | 4319     | 0.353  | ng/ul  | 96       |
| 5) 2-Methylnaphthalene      | 12.07 | 142  | 1717     | 0.211  | ng/ul  | 96       |
| 7) Acenaphthylene           | 13.98 | 152  | 3163     | 0.312  | ng/ul# | 83       |
| 8) Acenaphthene             | 14.32 | 153  | 2941     | 0.354  | ng/ul  | 98       |
| 9) Fluorene                 | 15.31 | 166  | 3195     | 0.346  | ng/ul  | 98       |
| 12) Phenanthrene            | 17.05 | 178  | 64801    | 4.729  | ng/ul  | 96       |
| 13) Anthracene              | 17.15 | 178  | 12352    | 1.057  | ng/ul  | 95       |
| 15) Fluoranthene            | 19.08 | 202  | 114666   | 6.247  | ng/ul  | 95       |
| 17) Pyrene                  | 19.45 | 202  | 98860    | 5.013  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.20 | 228  | 53809    | 3.135  | ng/ul  | 99       |
| 19) Chrysene                | 21.25 | 228  | 54893    | 2.486  | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.76 | 252  | 74808m   | 4.342  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.81 | 252  | 29526m   | 1.514  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.33 | 252  | 48584    | 2.773  | ng/ul# | 76       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.63 | 276  | 34008    | 1.626  | ng/ul# | 95       |
| 25) Dibenzo(a,h)anthracene  | 25.63 | 278  | 8914     | 0.527  | ng/ul  | 94       |
| 26) Benzo(g,h,i)perylene    | 26.31 | 276  | 28261    | 1.501  | ng/ul  | 97       |

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

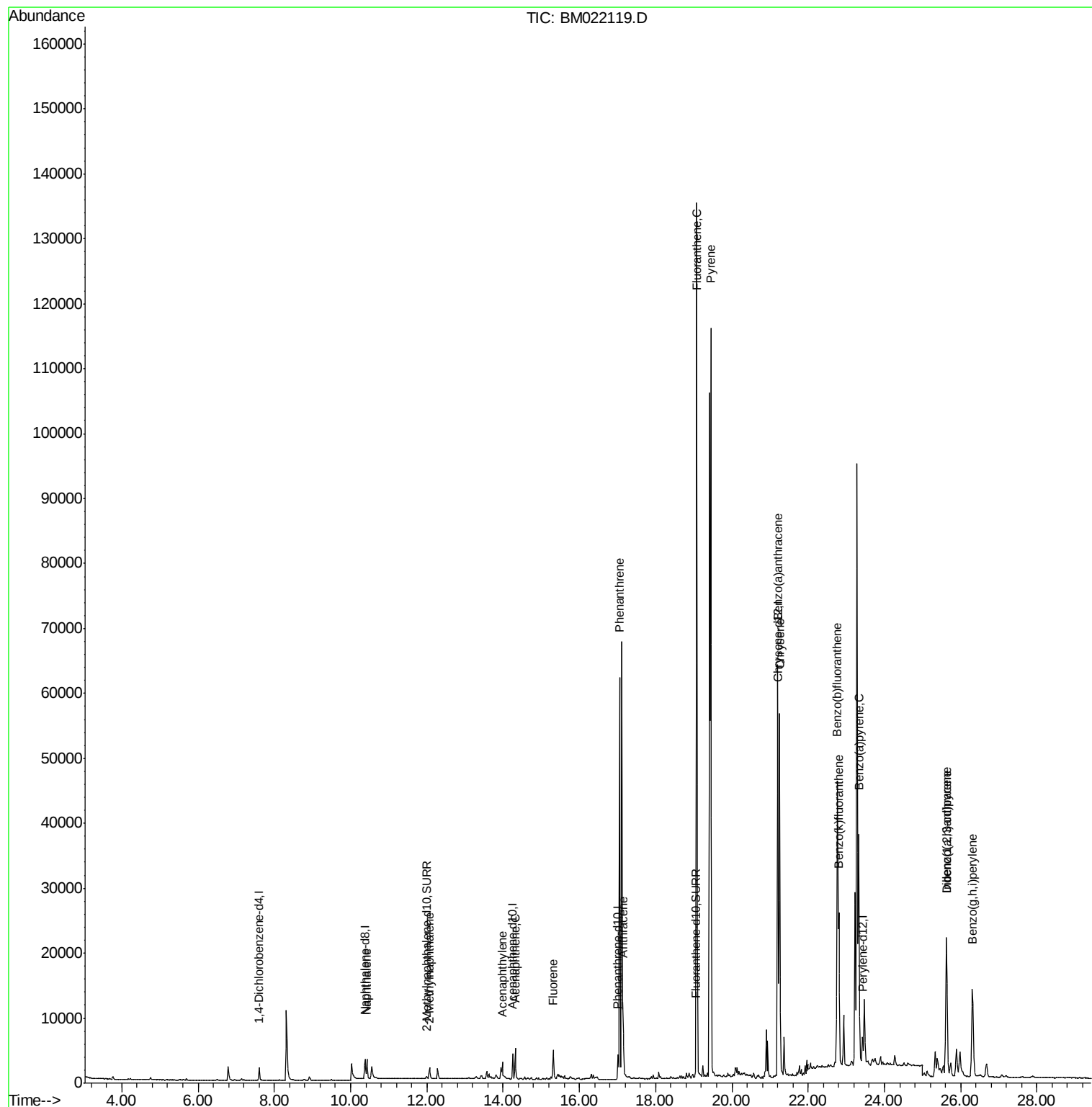
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM081219\  
Data File : BM022119.D  
Acq On : 14 Aug 2019 21:53  
Operator : HP/JU  
Sample : K4304-05DL 5X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

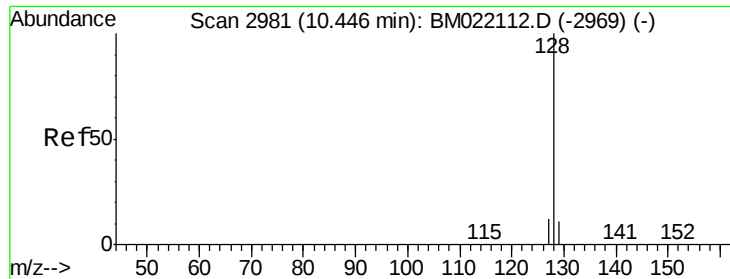
Instrument :  
BNA\_M  
ClientSampleId :  
CB5N6DL

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Quant Time: Aug 15 11:16:51 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-SIM-BM080319.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 14 13:53:23 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.353 ng/ul

RT: 10.43 min Scan# 2976

Delta R.T. -0.03 min

Lab File: BM022119.D

Acq: 14 Aug 2019 21:53

Instrument :

BNA\_M

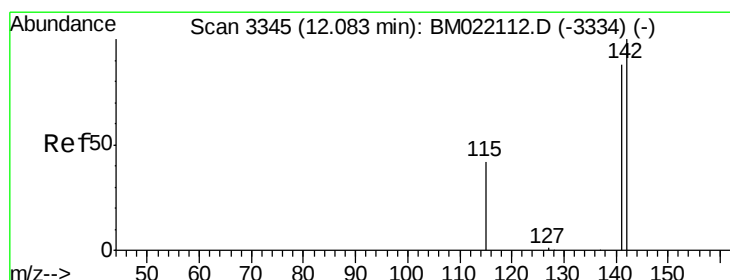
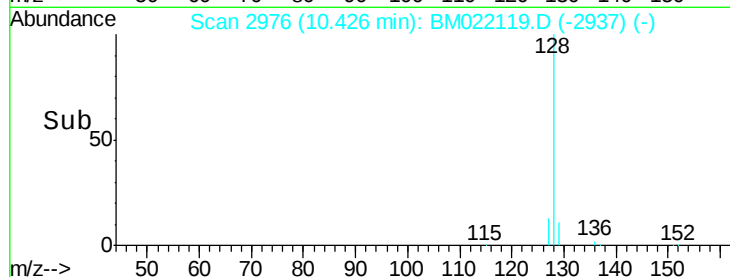
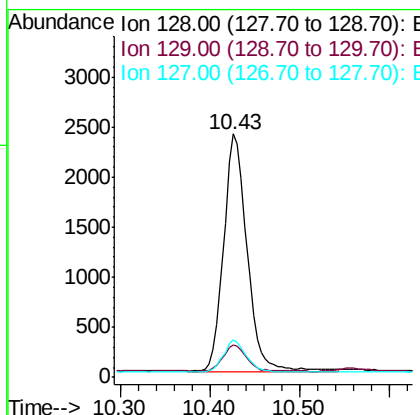
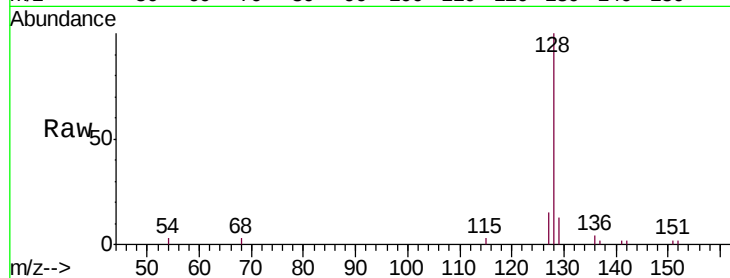
ClientSampleId :

CB5N6DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 4319 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 129       | 13.2  | 12.3  | 18.5 |
| 127       | 15.2  | 13.0  | 19.6 |

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#5

2-Methylnaphthalene

Concen: 0.211 ng/ul

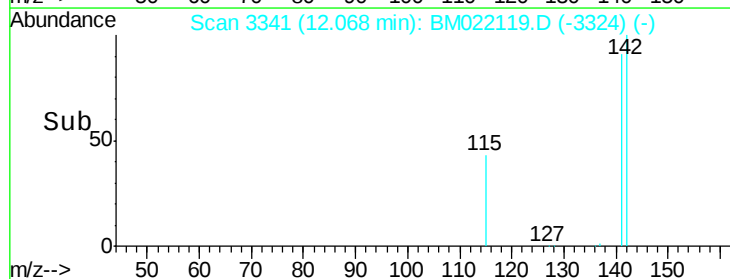
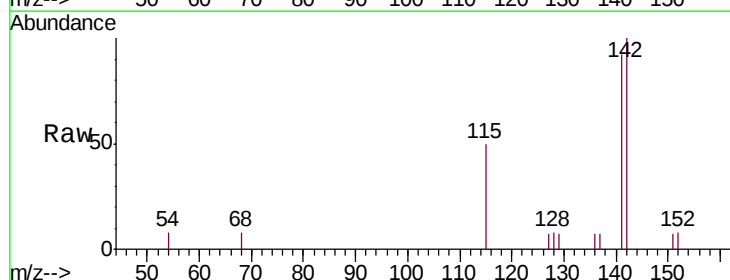
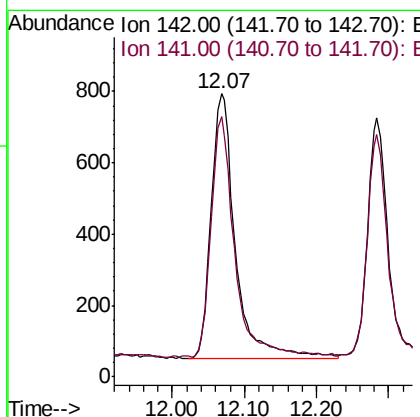
RT: 12.07 min Scan# 3341

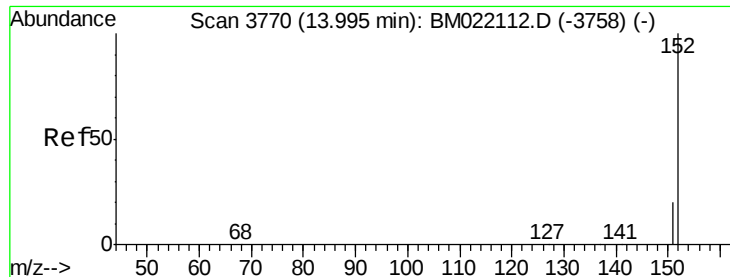
Delta R.T. -0.02 min

Lab File: BM022119.D

Acq: 14 Aug 2019 21:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 1717  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 89.3  | 74.3  | 111.5 |





#7

Acenaphthylene

Concen: 0.312 ng/ul

RT: 13.98 min Scan# 3766

Delta R.T. -0.02 min

Lab File: BM022119.D

Acq: 14 Aug 2019 21:53

Instrument :

BNA\_M

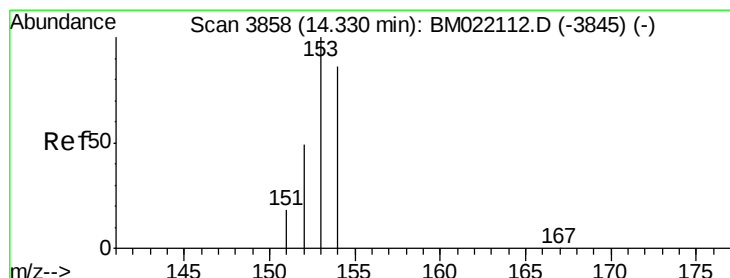
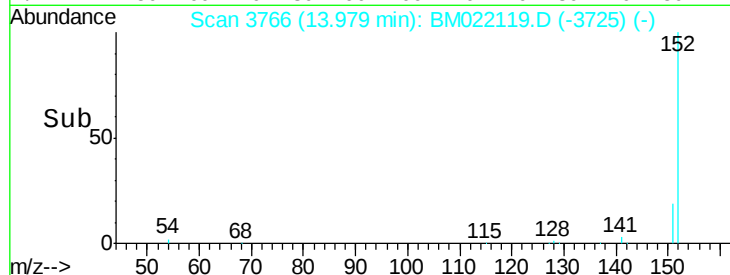
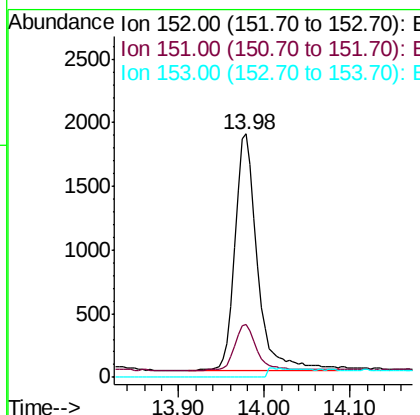
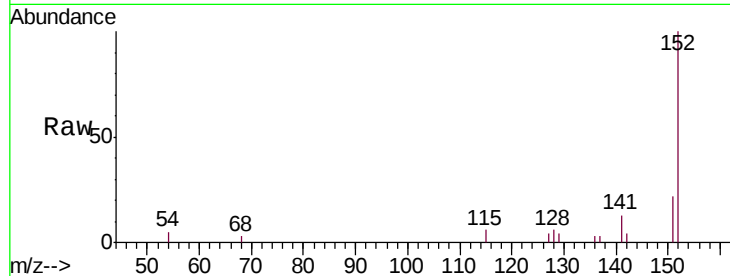
ClientSampleId :

CB5N6DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 3163  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 22.0  | 18.3  | 27.5  |
| 153       | 0.0   | 12.8  | 19.2# |

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#8

Acenaphthene

Concen: 0.354 ng/ul

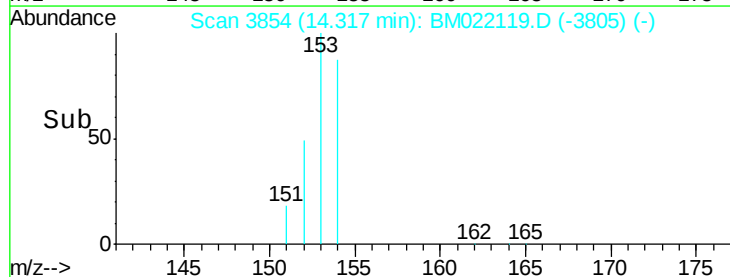
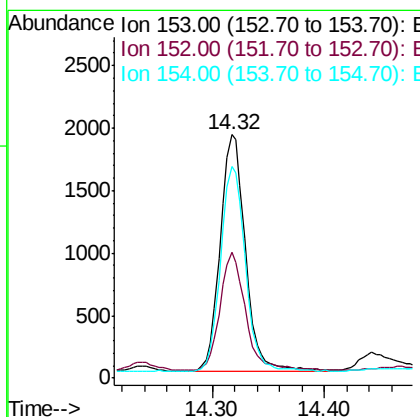
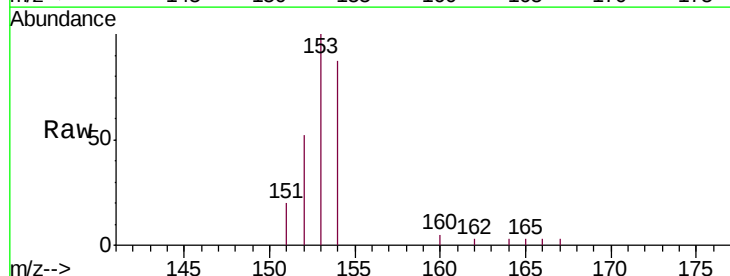
RT: 14.32 min Scan# 3854

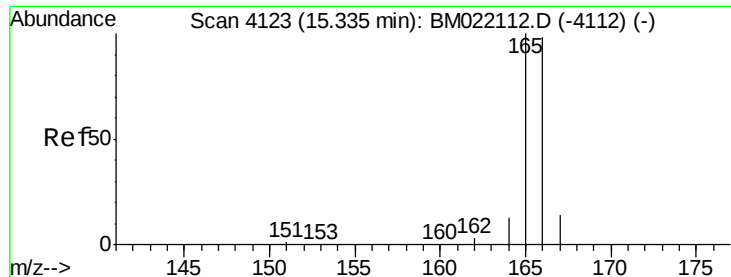
Delta R.T. -0.01 min

Lab File: BM022119.D

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|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 2941  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 51.6  | 41.3  | 61.9  |
| 154       | 86.9  | 72.3  | 108.5 |





#9

Fluorene

Concen: 0.346 ng/ul

RT: 15.31 min Scan# 4117

Delta R.T. -0.02 min

Lab File: BM022119.D

Acq: 14 Aug 2019 21:53

Instrument :

BNA\_M

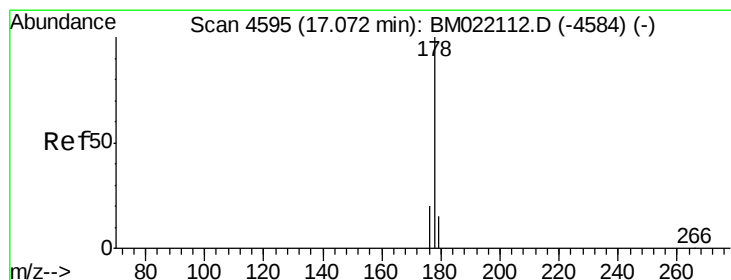
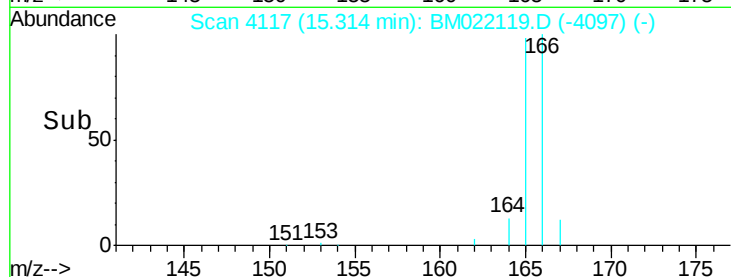
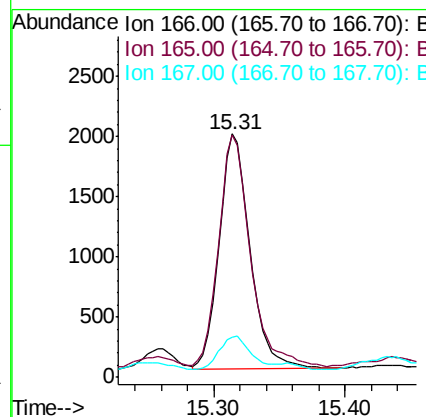
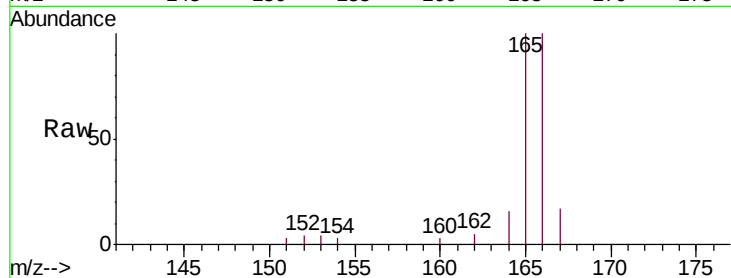
ClientSampleId :

CB5N6DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 3195  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.8  | 81.4  | 122.0 |
| 167       | 16.7  | 13.7  | 20.5  |

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#12

Phenanthrene

Concen: 4.729 ng/ul

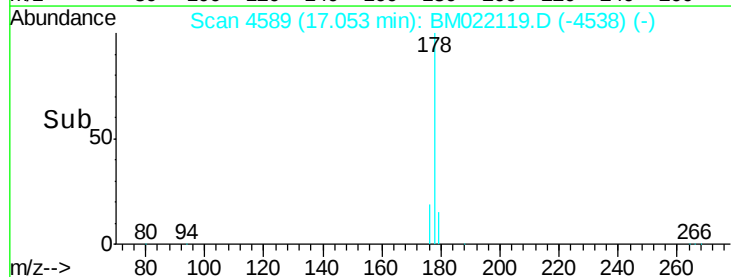
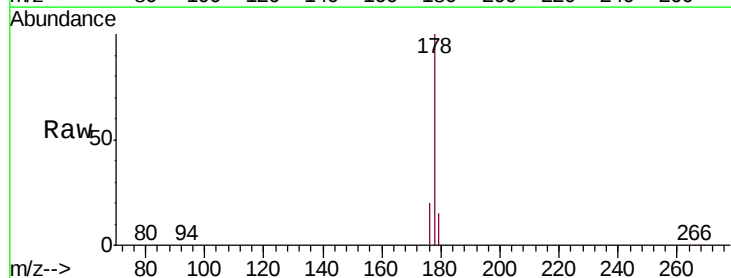
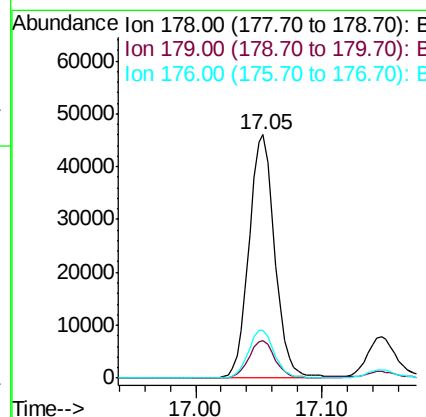
RT: 17.05 min Scan# 4589

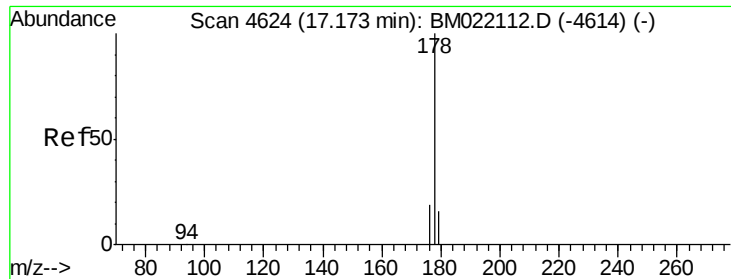
Delta R.T. -0.02 min

Lab File: BM022119.D

Acq: 14 Aug 2019 21:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 64801 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.4  | 14.2  | 21.2  |
| 176       | 19.5  | 16.8  | 25.2  |





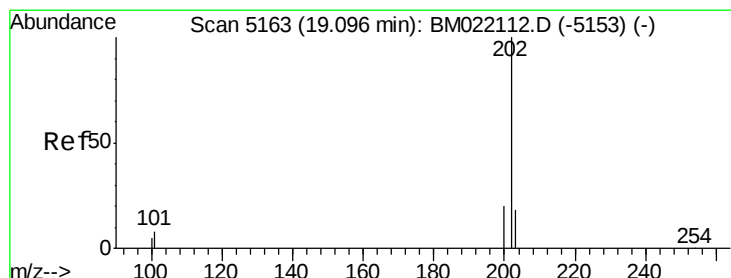
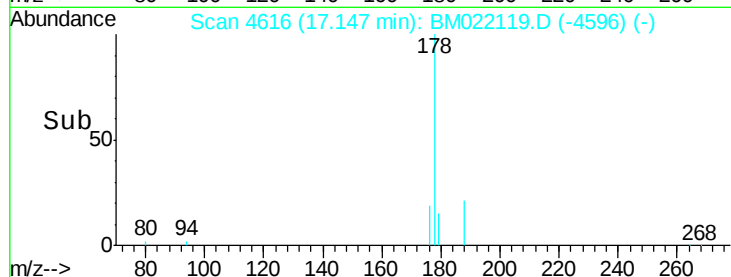
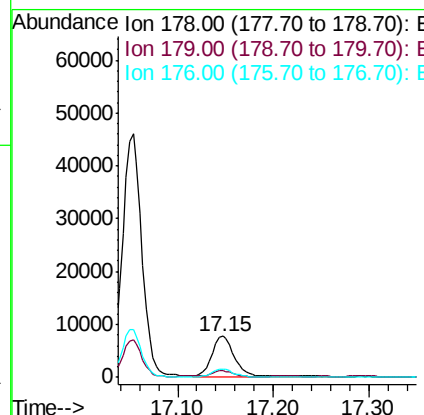
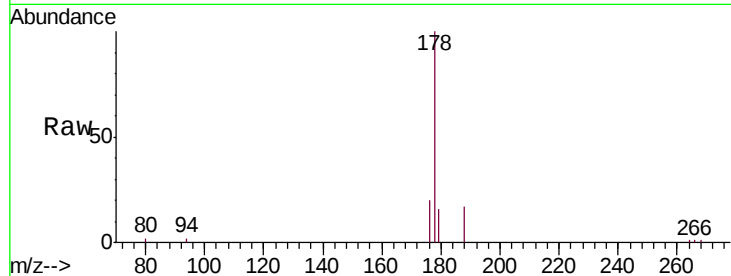
#13  
 Anthracene  
 Concen: 1.057 ng/ul  
 RT: 17.15 min Scan# 4616  
 Delta R.T. -0.03 min  
 Lab File: BM022119.D  
 Acq: 14 Aug 2019 21:53

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB5N6DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 12352 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 16.1  | 15.5  | 23.3  |
| 176       | 19.8  | 16.6  | 25.0  |

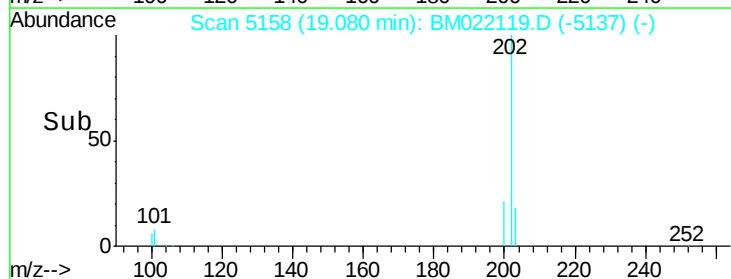
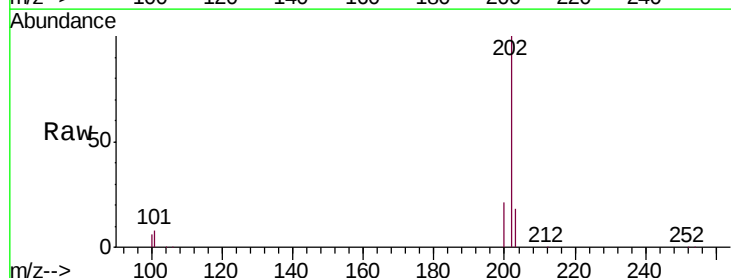
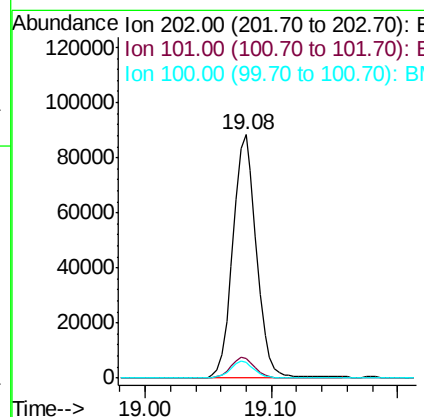
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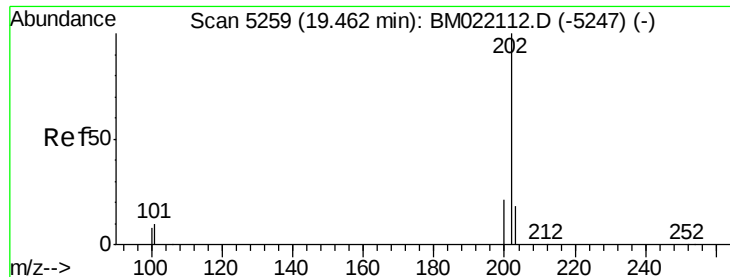
mohammad  
 8/15/2019 5:09:38 PM



#15  
 Fluoranthene  
 Concen: 6.247 ng/ul  
 RT: 19.08 min Scan# 5158  
 Delta R.T. -0.02 min  
 Lab File: BM022119.D  
 Acq: 14 Aug 2019 21:53

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 202   | Resp: | 114666 |
| Ion Ratio | Lower | Upper |        |
| 202       | 100   |       |        |
| 101       | 8.2   | 0.0   | 30.2   |
| 100       | 6.4   | 0.0   | 28.1   |





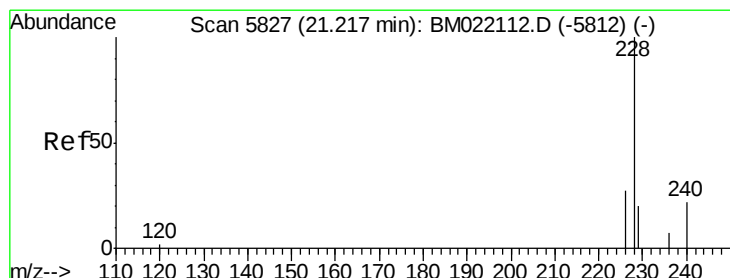
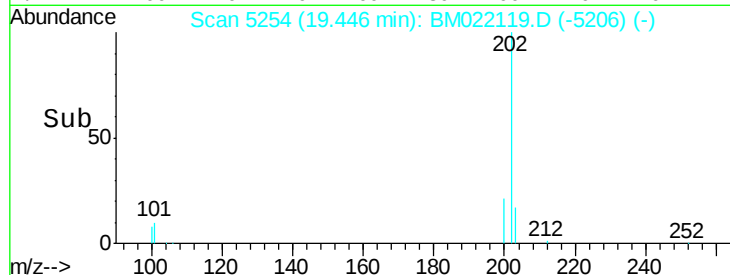
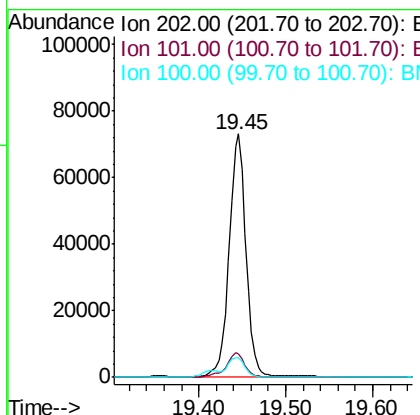
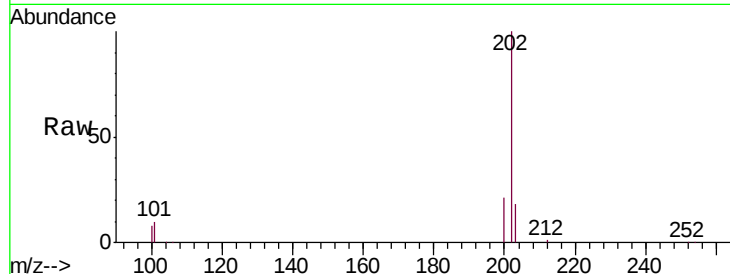
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 Pyrene  
 Concen: 5.013 ng/ul  
 RT: 19.45 min Scan# 5254  
 Delta R.T. -0.02 min  
 Lab File: BM022119.D  
 Acq: 14 Aug 2019 21:53

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB5N6DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 9.9   | 8.3        | 12.5       |
| 100     | 8.2   | 7.2        | 10.8       |

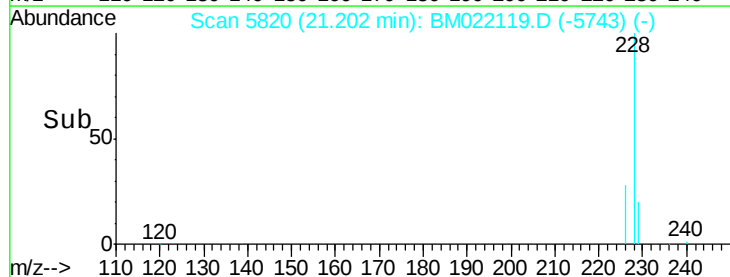
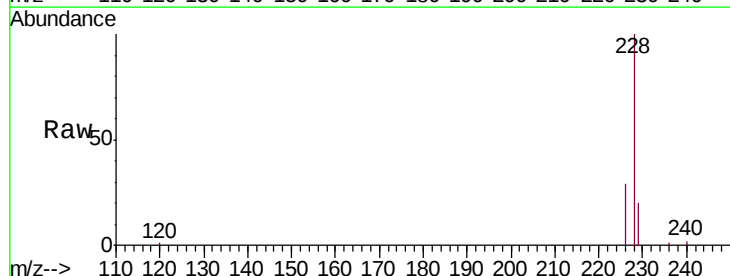
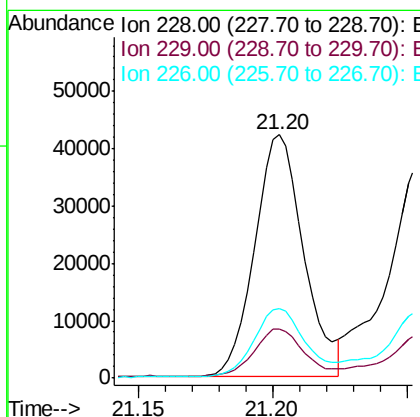
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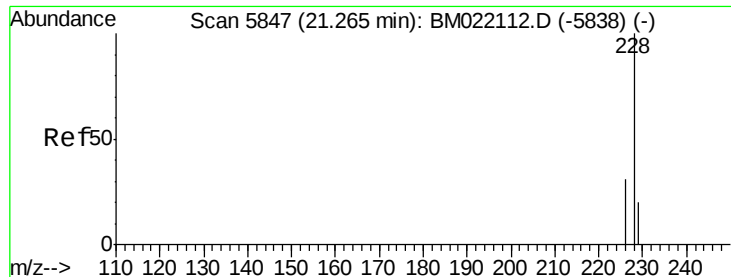
mohammad  
 8/15/2019 5:09:38 PM



#18  
 Benzo(a)anthracene  
 Concen: 3.135 ng/ul  
 RT: 21.20 min Scan# 5820  
 Delta R.T. -0.01 min  
 Lab File: BM022119.D  
 Acq: 14 Aug 2019 21:53

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 20.2  | 17.2       | 25.8       |
| 226     | 28.5  | 22.6       | 34.0       |





#19

Chrysene

Concen: 2.486 ng/ul

RT: 21.25 min Scan# 5841

Delta R.T. -0.02 min

Lab File: BM022119.D

Acq: 14 Aug 2019 21:53

Instrument :

BNA\_M

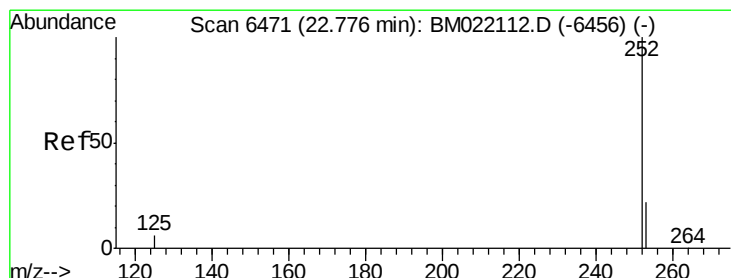
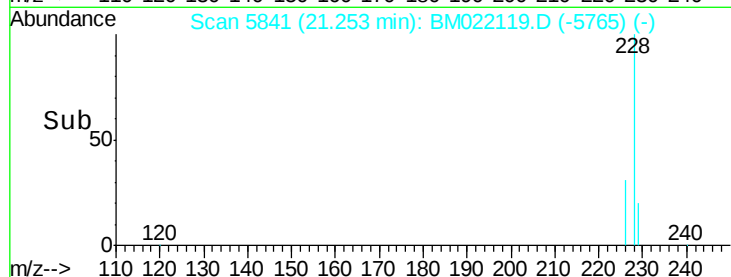
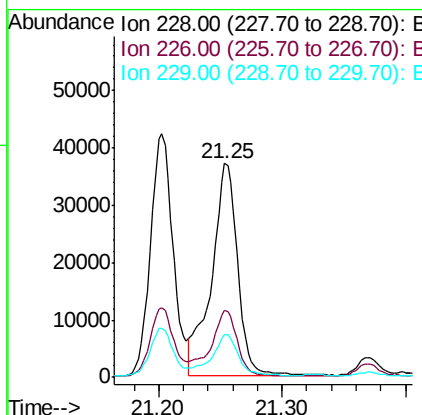
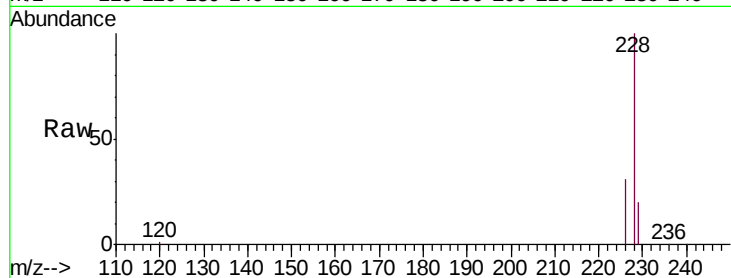
ClientSampleId :

CB5N6DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 54893 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.4  | 24.9  | 37.3  |
| 229       | 20.0  | 16.6  | 25.0  |

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#21

Benzo(b)fluoranthene

Concen: 4.342 ng/ul m

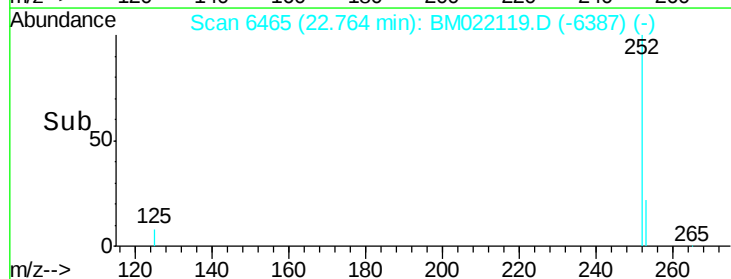
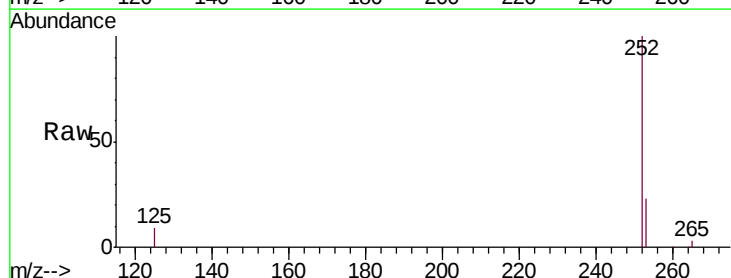
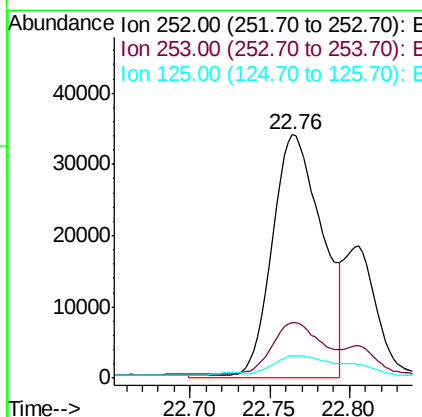
RT: 22.76 min Scan# 6465

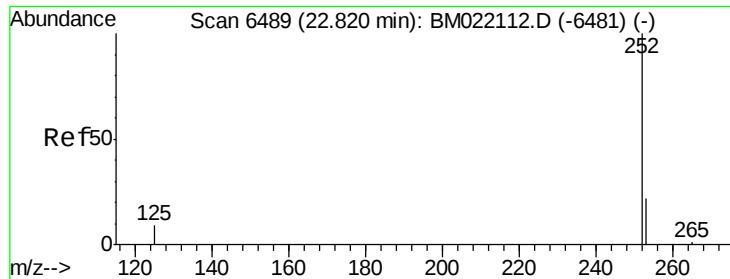
Delta R.T. -0.01 min

Lab File: BM022119.D

Acq: 14 Aug 2019 21:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 74808 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.0  | 0.0   | 67.4  |
| 125       | 9.0   | 0.0   | 31.0  |





#22

Benzo(k)fluoranthene

Concen: 1.514 ng/ul

RT: 22.81 min Scan# 6482

Delta R.T. -0.02 min

Lab File: BM022119.D

Acq: 14 Aug 2019 21:53

Instrument :

BNA\_M

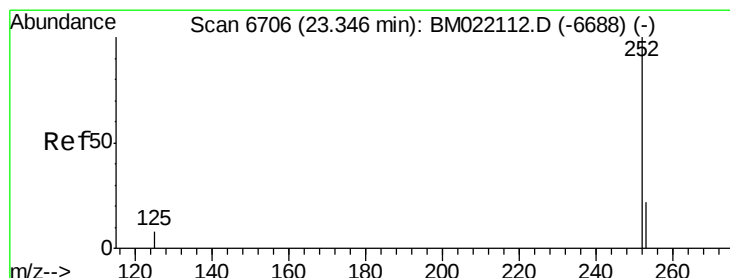
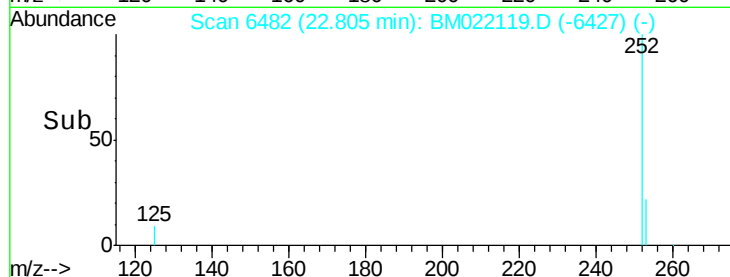
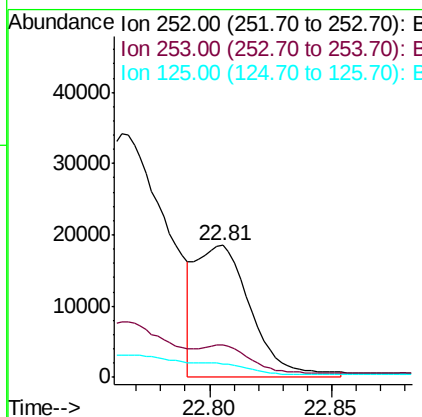
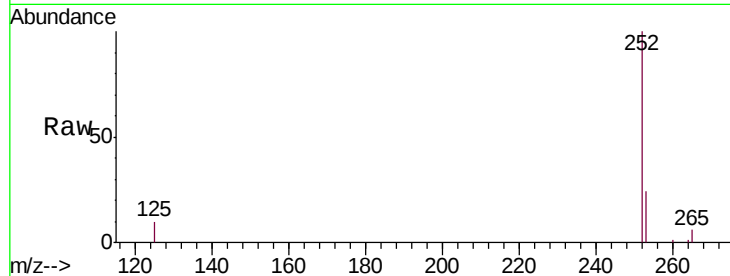
ClientSampleId :

CB5N6DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 29526 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.2  | 27.0  | 40.4# |
| 125       | 10.5  | 12.2  | 18.2# |

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#23

Benzo(a)pyrene

Concen: 2.773 ng/ul

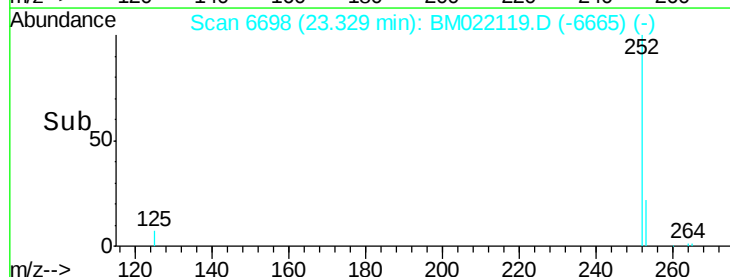
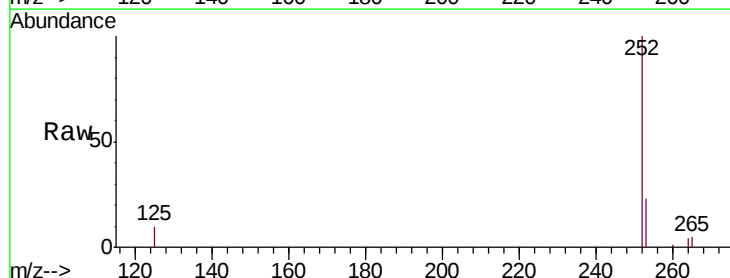
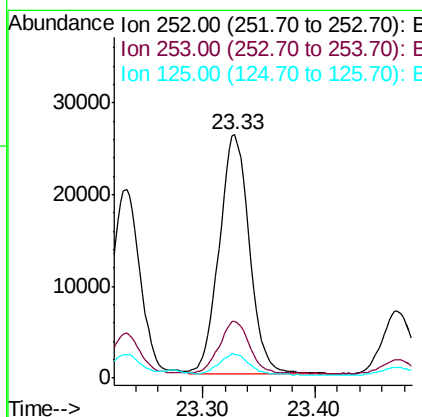
RT: 23.33 min Scan# 6698

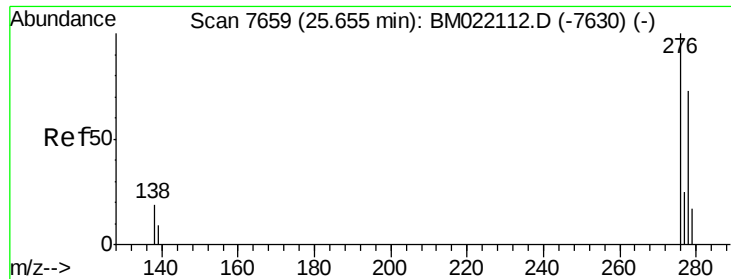
Delta R.T. -0.02 min

Lab File: BM022119.D

Acq: 14 Aug 2019 21:53

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 48584 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.4  | 31.7  | 47.5# |
| 125       | 9.8   | 14.6  | 21.8# |





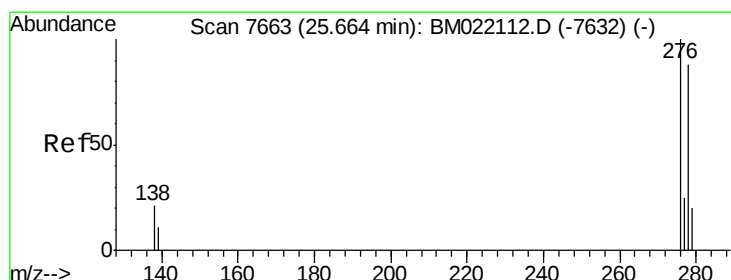
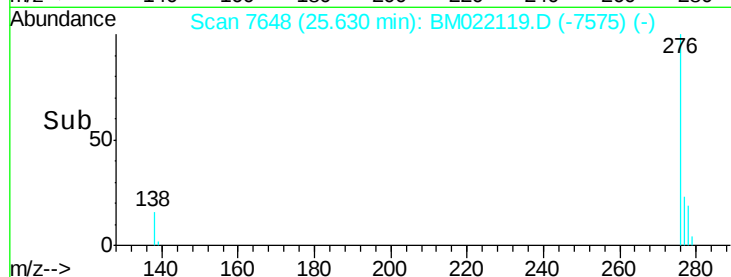
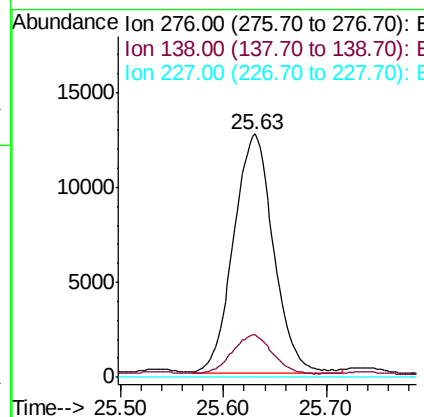
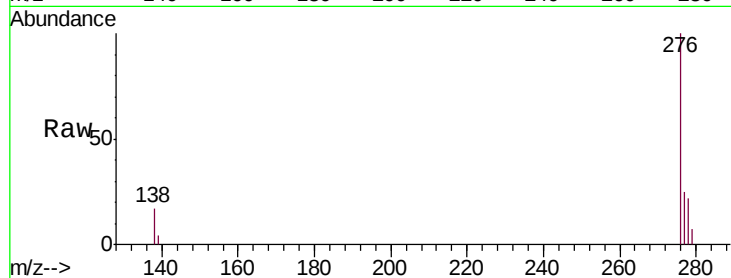
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.626 ng/u1  
 RT: 25.63 min Scan# 7648  
 Delta R.T. -0.02 min  
 Lab File: BM022119.D  
 Acq: 14 Aug 2019 21:53

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB5N6DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 16.6  | 15.1  | 22.7  |
| 227     | 0.0   | 0.0   | 0.0   |

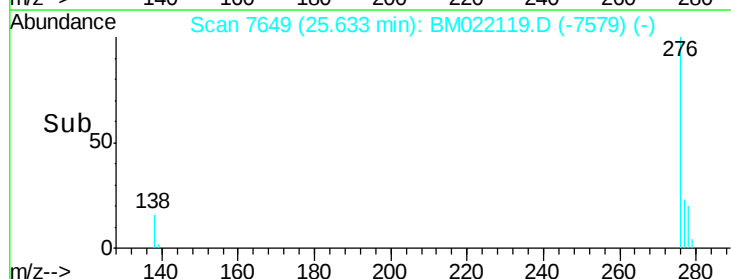
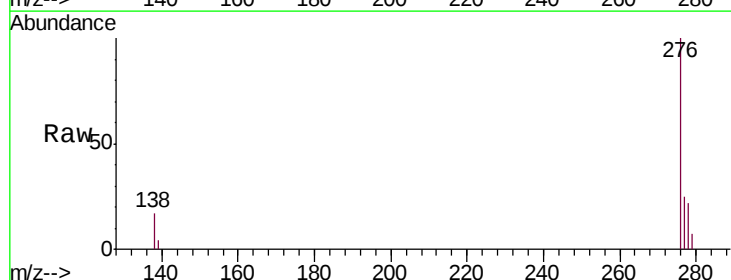
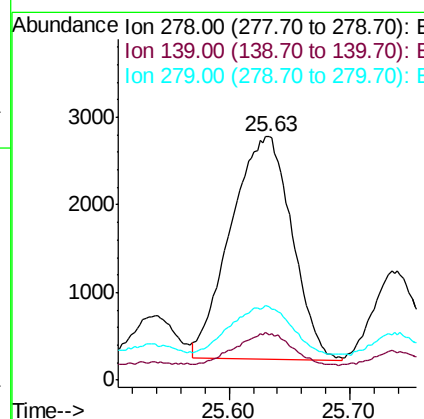
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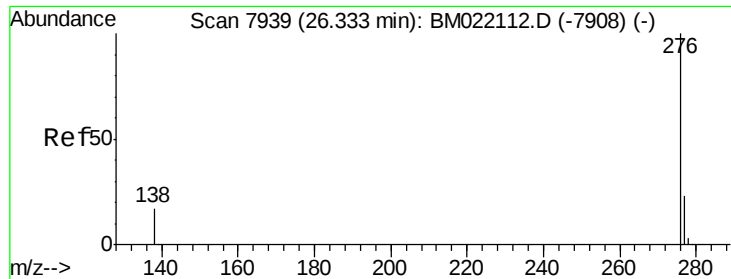
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.527 ng/u1  
 RT: 25.63 min Scan# 7649  
 Delta R.T. -0.03 min  
 Lab File: BM022119.D  
 Acq: 14 Aug 2019 21:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 18.4  | 14.2  | 21.2  |
| 279     | 30.4  | 28.3  | 42.5  |





#26  
Benzo(g,h,i)perylene  
Concen: 1.501 ng/ul  
RT: 26.31 min Scan# 7928  
Delta R.T. -0.03 min  
Lab File: BM022119.D  
Acq: 14 Aug 2019 21:53

Instrument :  
BNA\_M  
ClientSampleId :  
CB5N6DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.9  | 15.5  | 23.3  |
| 277     | 25.1  | 21.4  | 32.2  |

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