

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM081219\  
 Data File : BM022132.D  
 Acq On : 15 Aug 2019 07:02  
 Operator : HP/JU  
 Sample : K4304-11DL 5X  
 Misc :  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB5P2DL

Manual Integrations  
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Quant Time: Aug 15 13:04:27 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  | 938      | 0.40   | ng/ul  | -0.01    |
| 2) Naphthalene-d8           | 10.38 | 136  | 3921     | 0.40   | ng/ul  | -0.02    |
| 6) Acenaphthene-d10         | 14.25 | 164  | 2090     | 0.40   | ng/ul  | -0.01    |
| 10) Phenanthrene-d10        | 17.01 | 188  | 4731     | 0.40   | ng/ul  | -0.03    |
| 16) Chrysene-d12            | 21.21 | 240  | 4750     | 0.40   | ng/ul  | -0.02    |
| 20) Perylene-d12            | 23.42 | 264  | 5066     | 0.40   | ng/ul  | -0.02    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 11.99 | 152  | 472      | 0.07   | ng/ul  | -0.02    |
| 14) Fluoranthene-d10        | 19.05 | 212  | 1191     | 0.07   | ng/ul  | -0.02    |
| Target Compounds            |       |      |          | Qvalue |        |          |
| 3) Naphthalene              | 10.43 | 128  | 1865     | 0.168  | ng/ul  | 97       |
| 5) 2-Methylnaphthalene      | 12.07 | 142  | 871      | 0.118  | ng/ul  | 97       |
| 7) Acenaphthylene           | 13.98 | 152  | 1807     | 0.185  | ng/ul# | 82       |
| 8) Acenaphthene             | 14.32 | 153  | 1426     | 0.179  | ng/ul  | 98       |
| 9) Fluorene                 | 15.32 | 166  | 1756     | 0.198  | ng/ul  | 99       |
| 12) Phenanthrene            | 17.05 | 178  | 40423    | 2.936  | ng/ul  | 97       |
| 13) Anthracene              | 17.14 | 178  | 7151     | 0.609  | ng/ul  | 97       |
| 15) Fluoranthene            | 19.08 | 202  | 67631    | 3.668  | ng/ul  | 96       |
| 17) Pyrene                  | 19.44 | 202  | 59953    | 3.071  | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.20 | 228  | 31576    | 1.858  | ng/ul  | 99       |
| 19) Chrysene                | 21.25 | 228  | 34647    | 1.586  | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.76 | 252  | 45975m   | 2.691  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.80 | 252  | 17985m   | 0.930  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.32 | 252  | 29125    | 1.676  | ng/ul# | 78       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.63 | 276  | 21772    | 1.050  | ng/ul# | 92       |
| 25) Dibenzo(a,h)anthracene  | 25.63 | 278  | 5793     | 0.346  | ng/ul# | 95       |
| 26) Benzo(g,h,i)perylene    | 26.31 | 276  | 19286    | 1.033  | ng/ul  | 98       |

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

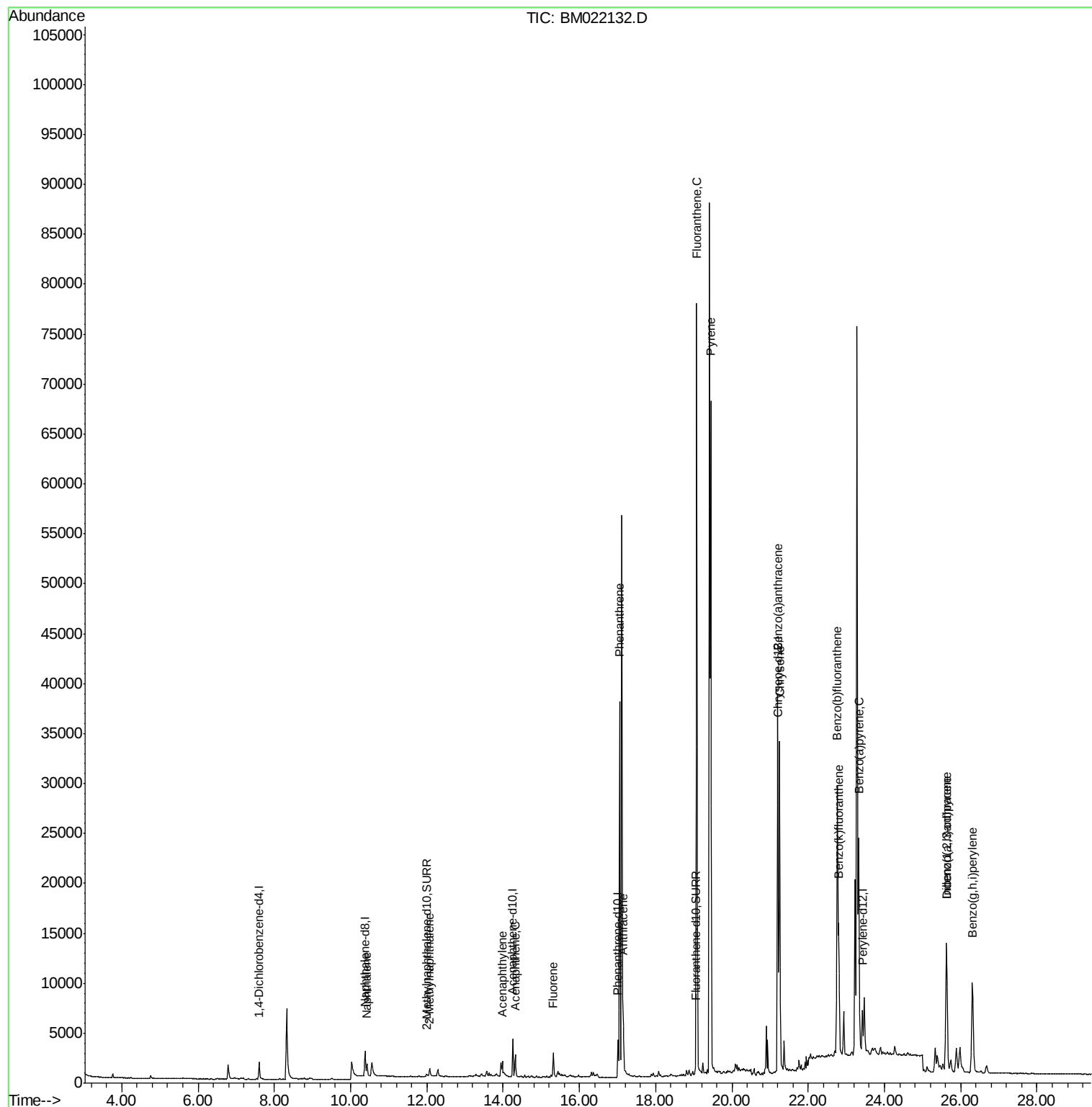
Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM081219\  
Data File : BM022132.D  
Acq On : 15 Aug 2019 07:02  
Operator : HP/JU  
Sample : K4304-11DL 5X  
Misc :  
ALS Vial : 35 Sample Multiplier: 1

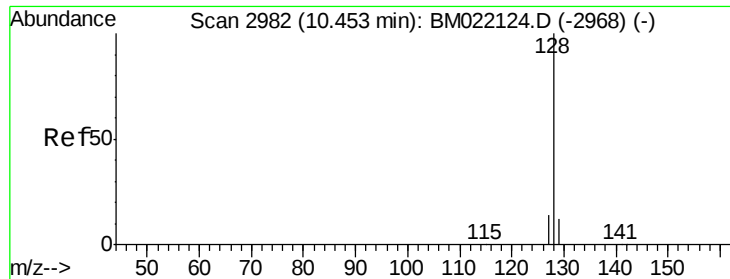
Instrument :  
BNA\_M  
ClientSampleId :  
CB5P2DL

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Quant Time: Aug 15 13:04:27 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: 0.168 ng/ul

RT: 10.43 min Scan# 2977

Delta R.T. -0.02 min

Lab File: BM022132.D

Acq: 15 Aug 2019 07:02

Instrument :

BNA\_M

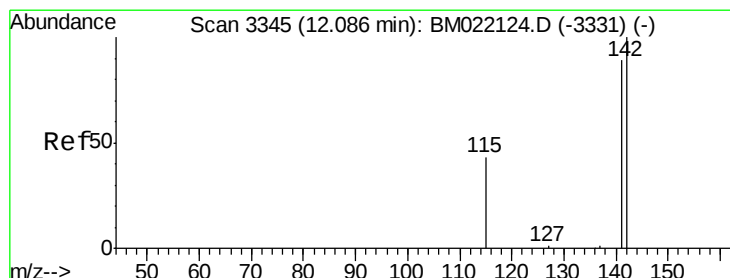
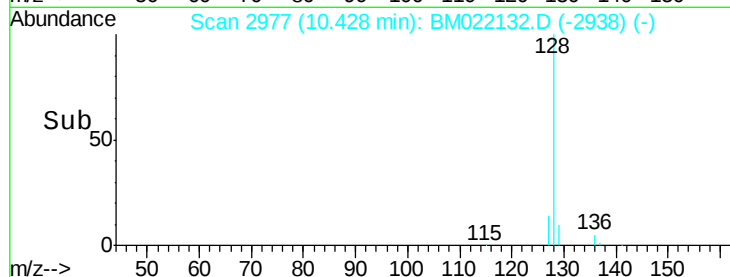
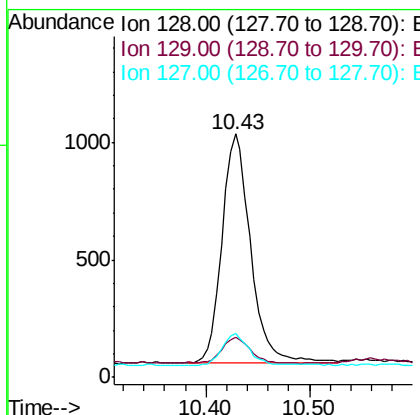
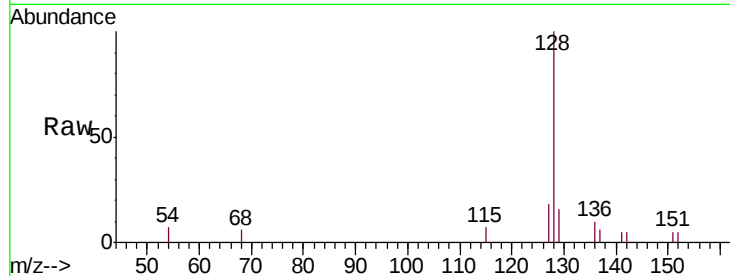
ClientSampleId :

CB5P2DL

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 1865 |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 129       | 16.3  | 12.3  | 18.5 |
| 127       | 18.2  | 13.0  | 19.6 |

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#5

2-Methylnaphthalene

Concen: 0.118 ng/ul

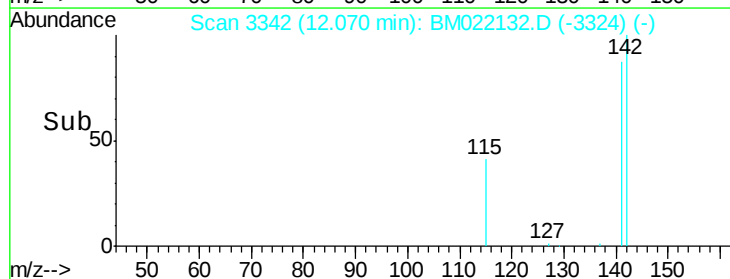
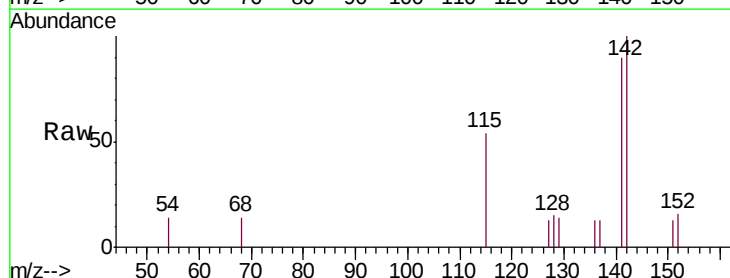
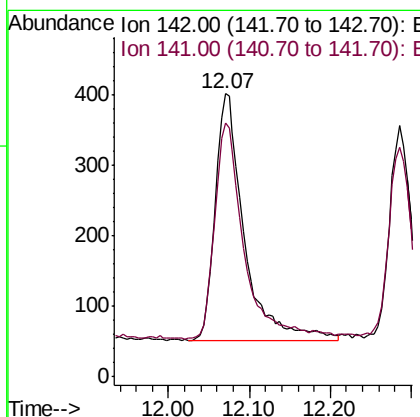
RT: 12.07 min Scan# 3342

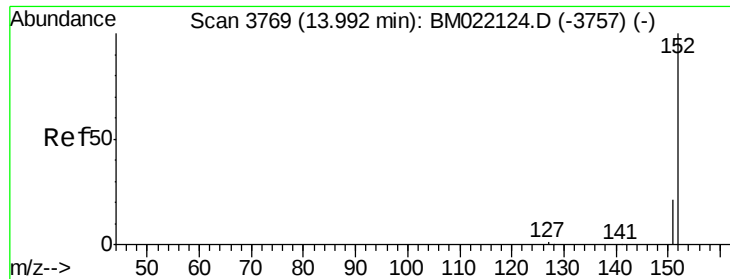
Delta R.T. -0.02 min

Lab File: BM022132.D

Acq: 15 Aug 2019 07:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 871   |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 90.1  | 74.3  | 111.5 |





#7

Acenaphthylene

Concen: 0.185 ng/ul

RT: 13.98 min Scan# 3766

Delta R.T. -0.02 min

Lab File: BM022132.D

Acq: 15 Aug 2019 07:02

Instrument :

BNA\_M

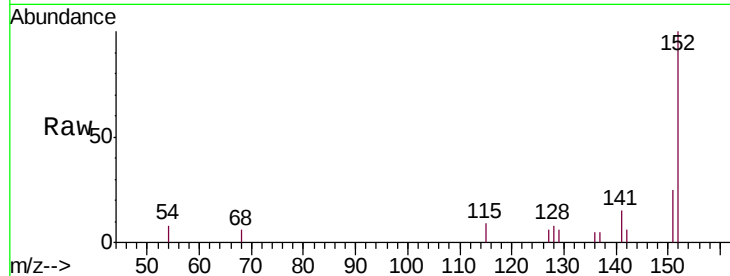
ClientSampleId :

CB5P2DL

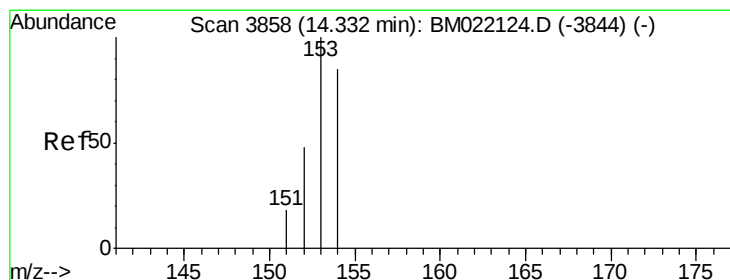
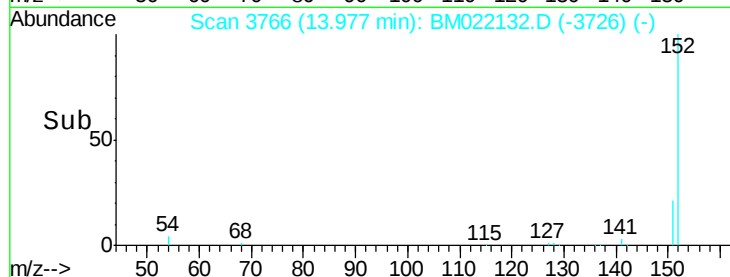
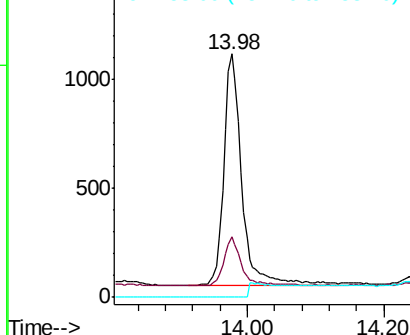
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 1807  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 24.9  | 18.3  | 27.5  |
| 153       | 0.0   | 12.8  | 19.2# |

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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: 0.179 ng/ul

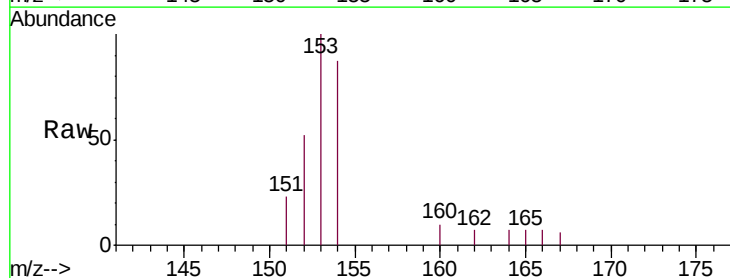
RT: 14.32 min Scan# 3855

Delta R.T. -0.01 min

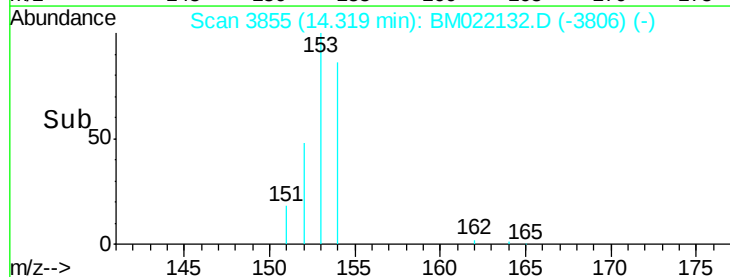
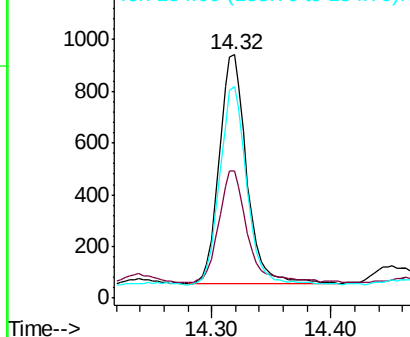
Lab File: BM022132.D

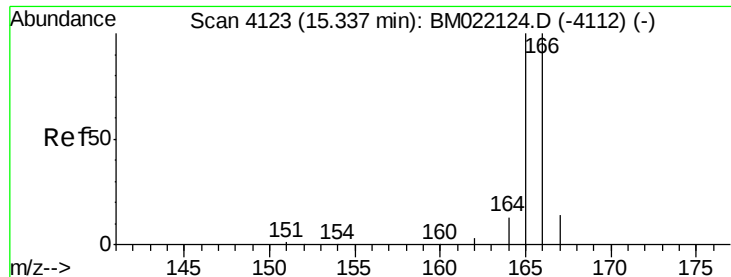
Acq: 15 Aug 2019 07:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 1426  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 52.0  | 41.3  | 61.9  |
| 154       | 87.2  | 72.3  | 108.5 |



Abundance Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E  
Ion 154.00 (153.70 to 154.70): E





#9

Fluorene

Concen: 0.198 ng/ul

RT: 15.32 min Scan# 4118

Delta R.T. -0.02 min

Lab File: BM022132.D

Acq: 15 Aug 2019 07:02

Instrument :

BNA\_M

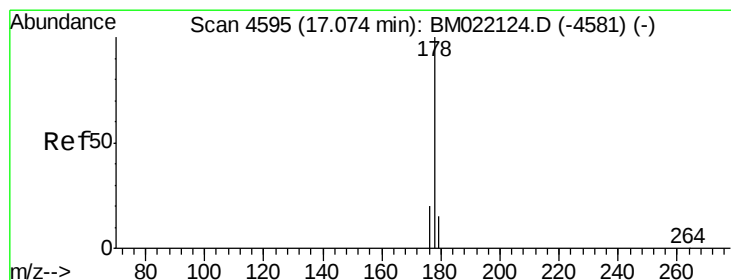
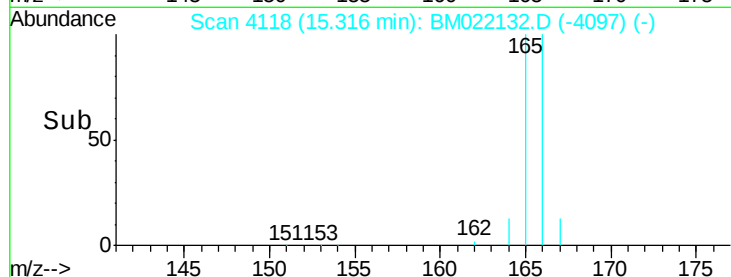
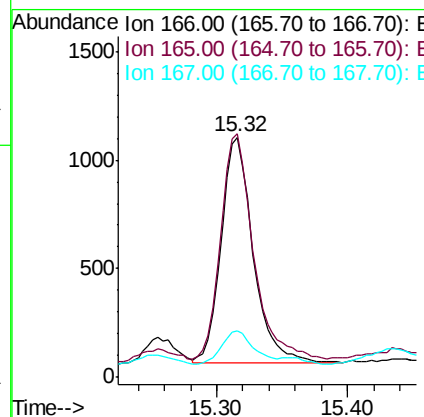
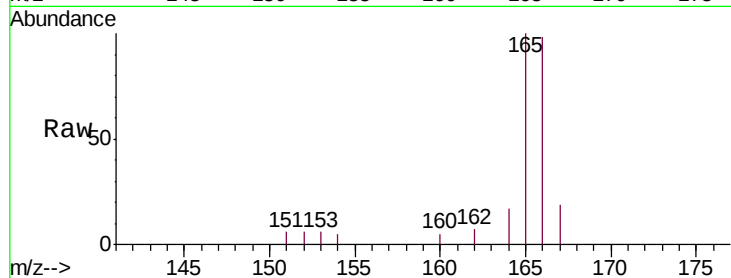
ClientSampleId :

CB5P2DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 1756  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 101.5 | 81.4  | 122.0 |
| 167       | 19.6  | 13.7  | 20.5  |

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#12

Phenanthrene

Concen: 2.936 ng/ul

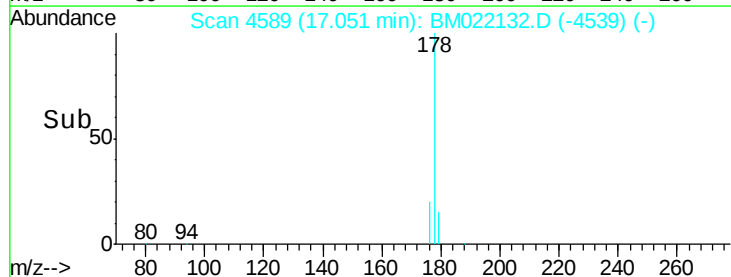
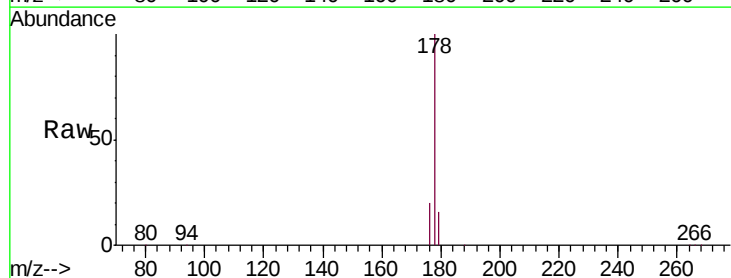
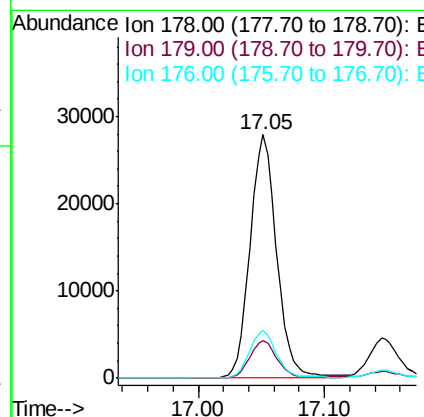
RT: 17.05 min Scan# 4589

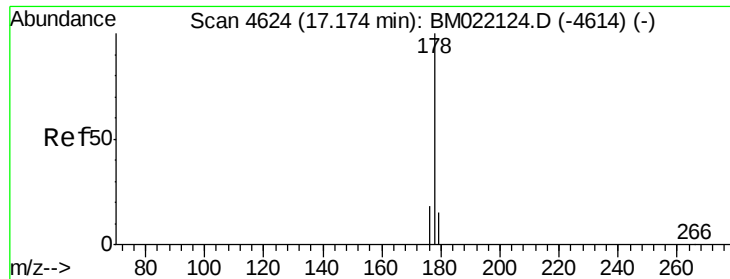
Delta R.T. -0.03 min

Lab File: BM022132.D

Acq: 15 Aug 2019 07:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 178   | Resp: | 40423 |
| Ion Ratio | Lower | Upper |       |
| 178       | 100   |       |       |
| 179       | 15.7  | 14.2  | 21.2  |
| 176       | 19.8  | 16.8  | 25.2  |





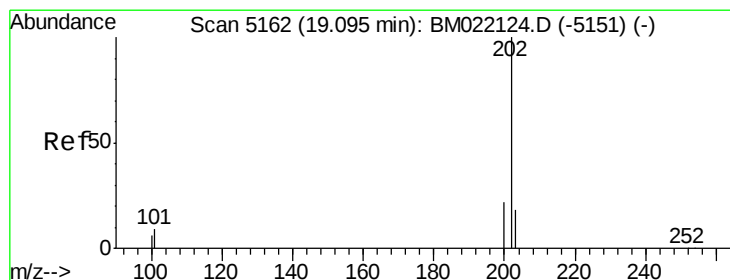
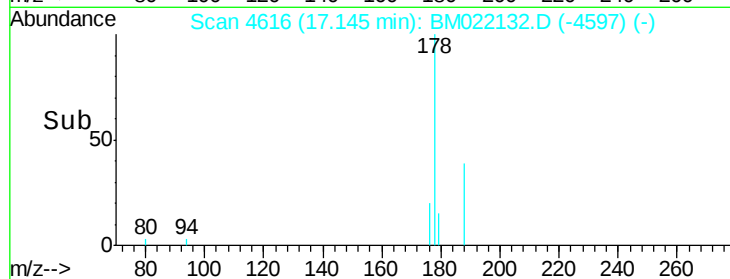
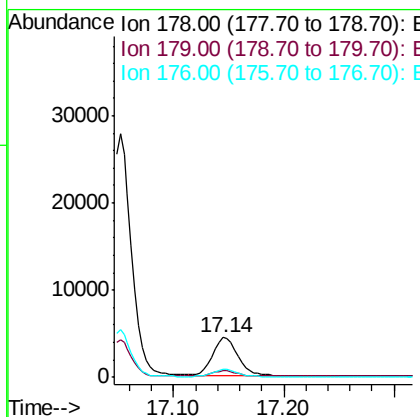
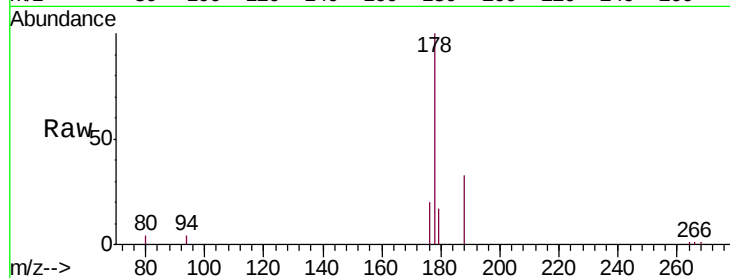
#13  
 Anthracene  
 Concen: 0.609 ng/ul  
 RT: 17.14 min Scan# 4616  
 Delta R.T. -0.03 min  
 Lab File: BM022132.D  
 Acq: 15 Aug 2019 07:02

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB5P2DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 17.2  | 15.5  | 23.3  |
| 176     | 20.2  | 16.6  | 25.0  |

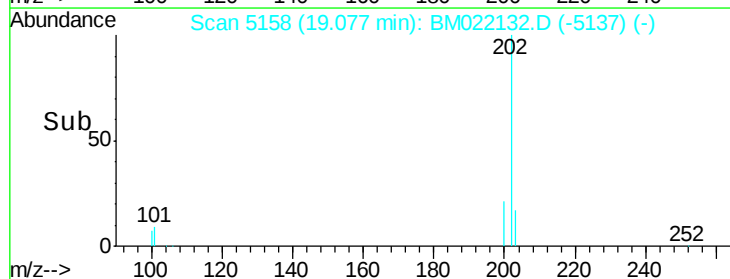
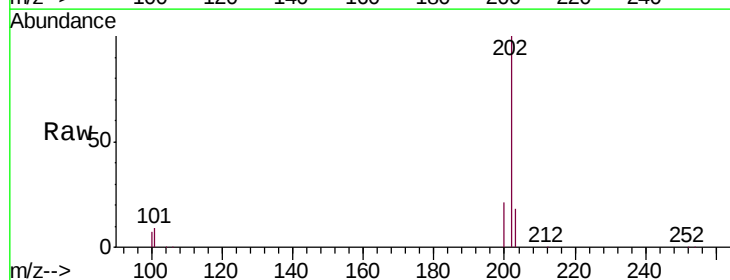
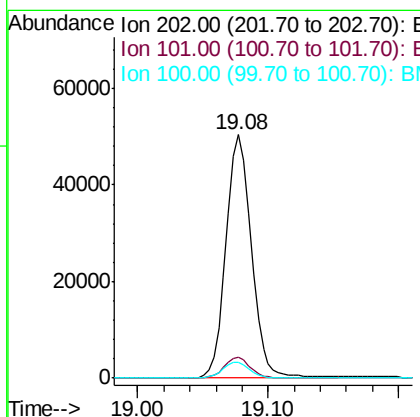
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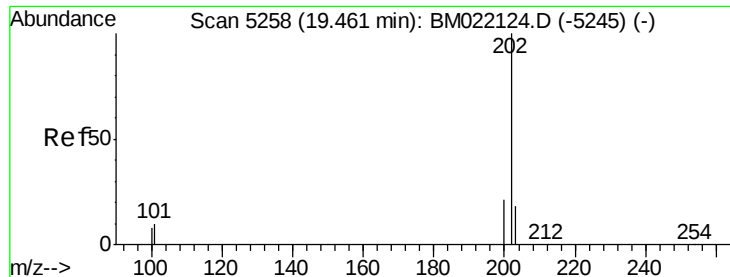
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#15  
 Fluoranthene  
 Concen: 3.668 ng/ul  
 RT: 19.08 min Scan# 5158  
 Delta R.T. -0.02 min  
 Lab File: BM022132.D  
 Acq: 15 Aug 2019 07:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 8.7   | 0.0   | 30.2  |
| 100     | 6.7   | 0.0   | 28.1  |





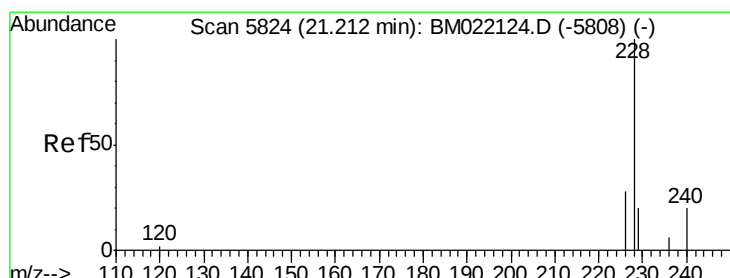
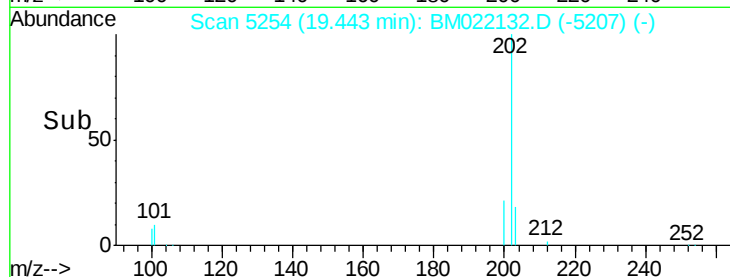
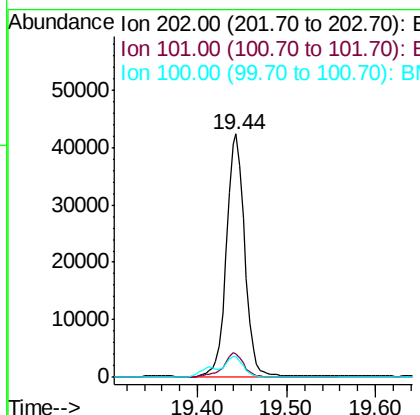
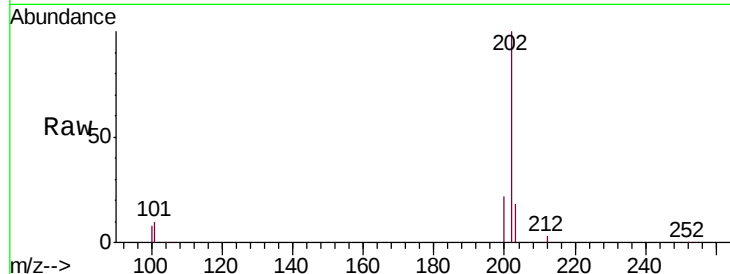
#17  
**Pyrene**  
 Concen: 3.071 ng/ul  
 RT: 19.44 min Scan# 5254  
 Delta R.T. -0.02 min  
 Lab File: BM022132.D  
 Acq: 15 Aug 2019 07:02

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB5P2DL

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 9.9   | 8.3        | 12.5       |
| 100     | 8.4   | 7.2        | 10.8       |

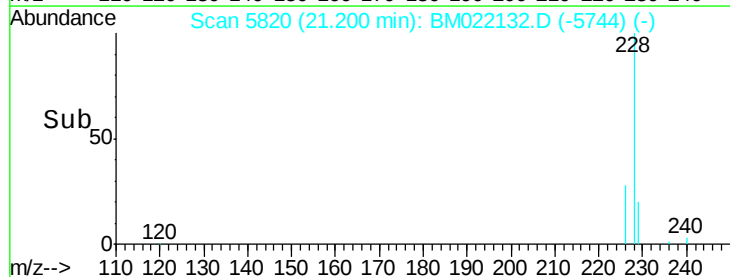
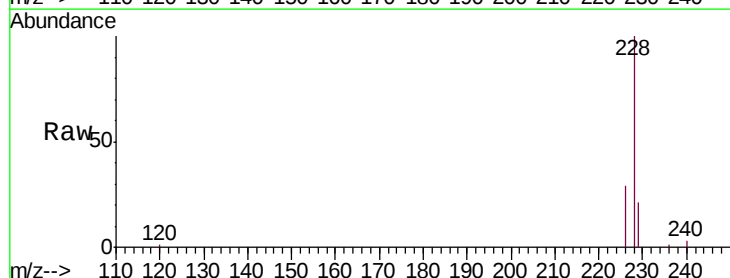
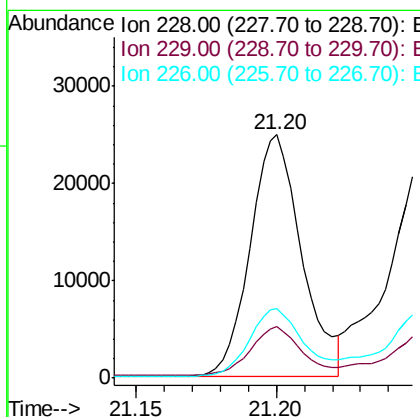
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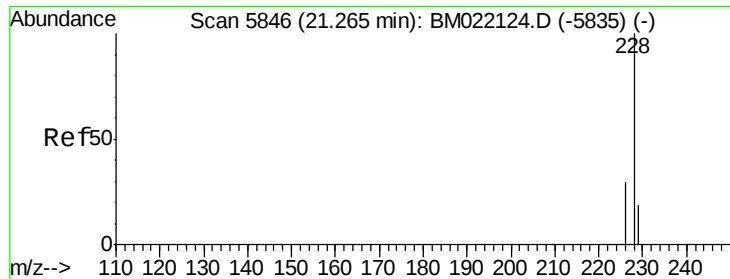
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#18  
**Benzo(a)anthracene**  
 Concen: 1.858 ng/ul  
 RT: 21.20 min Scan# 5820  
 Delta R.T. -0.02 min  
 Lab File: BM022132.D  
 Acq: 15 Aug 2019 07:02

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 20.9  | 17.2       | 25.8       |
| 226     | 28.7  | 22.6       | 34.0       |





#19

Chrysene

Concen: 1.586 ng/ul

RT: 21.25 min Scan# 5841

Delta R.T. -0.02 min

Lab File: BM022132.D

Acq: 15 Aug 2019 07:02

Instrument :

BNA\_M

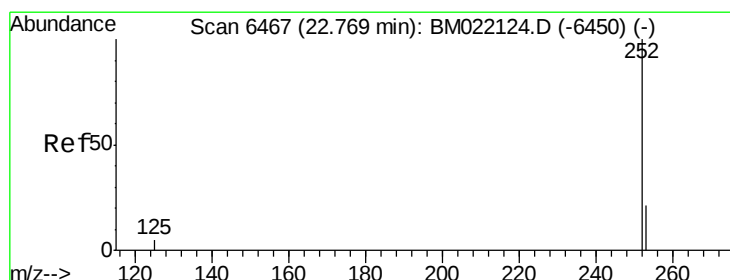
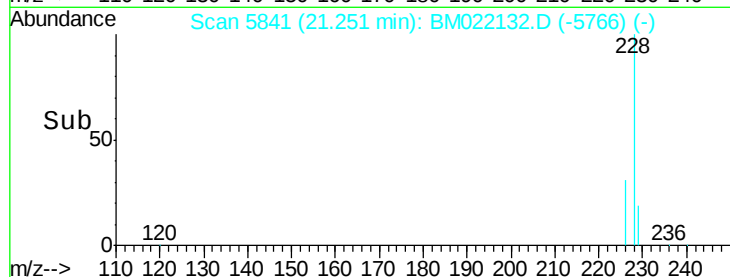
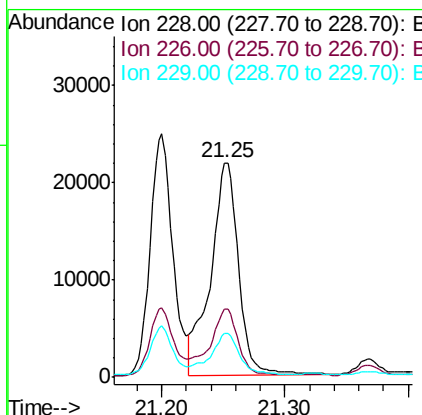
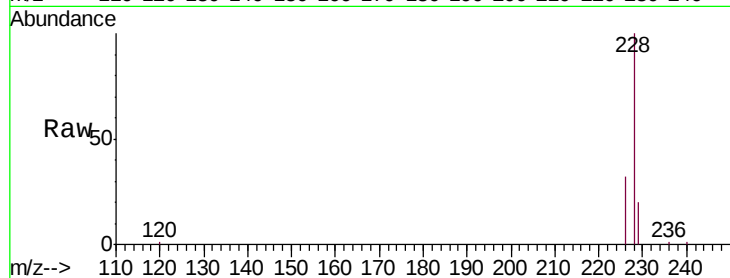
ClientSampleId :

CB5P2DL

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 228   | Resp: | 34647 |
| Ion      | Ratio | Lower | Upper |
| 228      | 100   |       |       |
| 226      | 31.8  | 24.9  | 37.3  |
| 229      | 20.4  | 16.6  | 25.0  |

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#21

Benzo(b)fluoranthene

Concen: 2.691 ng/ul m

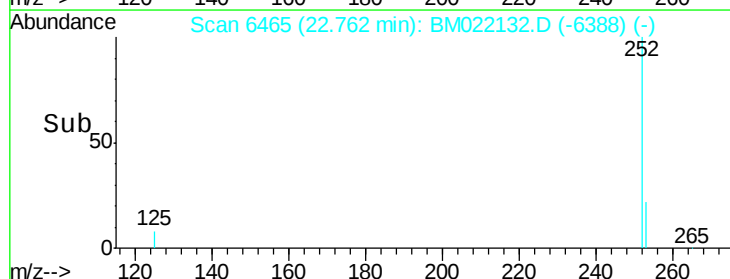
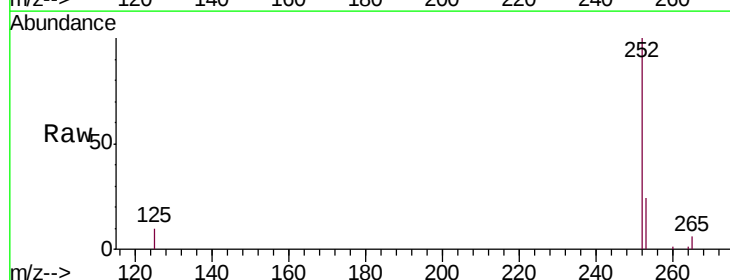
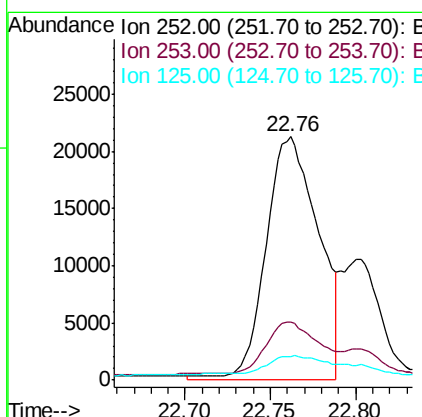
RT: 22.76 min Scan# 6465

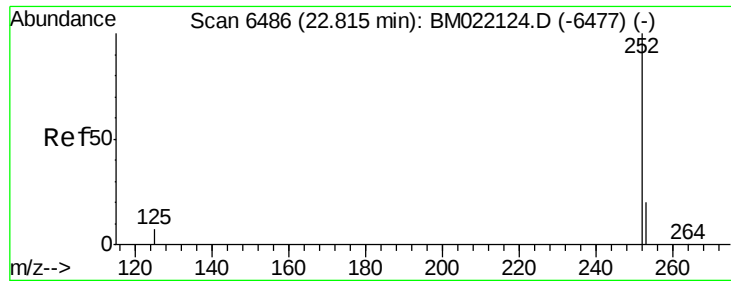
Delta R.T. -0.01 min

Lab File: BM022132.D

Acq: 15 Aug 2019 07:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 45975 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 23.6  | 0.0   | 67.4  |
| 125      | 9.9   | 0.0   | 31.0  |





#22

Benzo(k)fluoranthene

Concen: 0.930 ng/ul

RT: 22.80 min Scan# 6481

Delta R.T. -0.02 min

Lab File: BM022132.D

Acq: 15 Aug 2019 07:02

Instrument :

BNA\_M

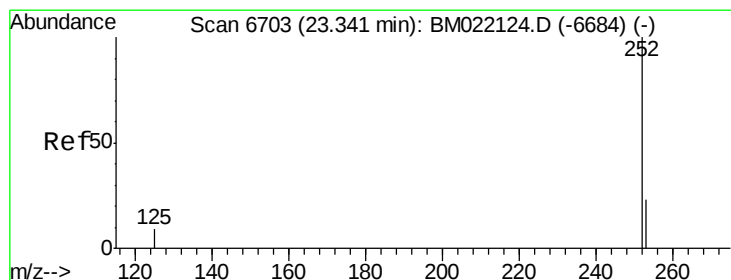
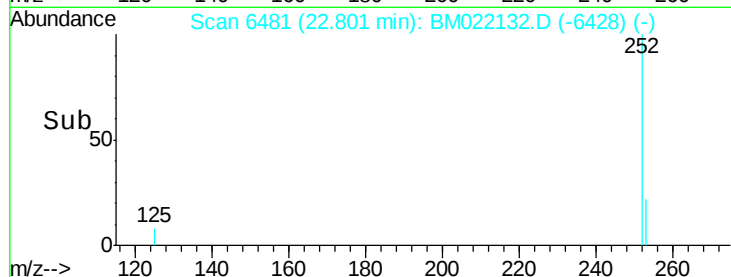
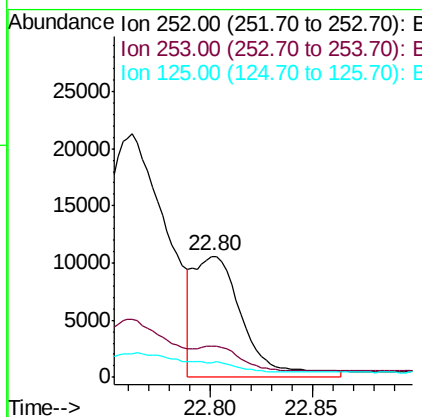
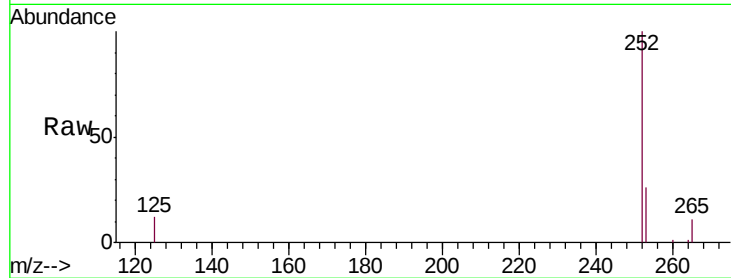
ClientSampleId :

CB5P2DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 17985 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.7  | 27.0  | 40.4# |
| 125       | 12.2  | 12.2  | 18.2  |

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#23

Benzo(a)pyrene

Concen: 1.676 ng/ul

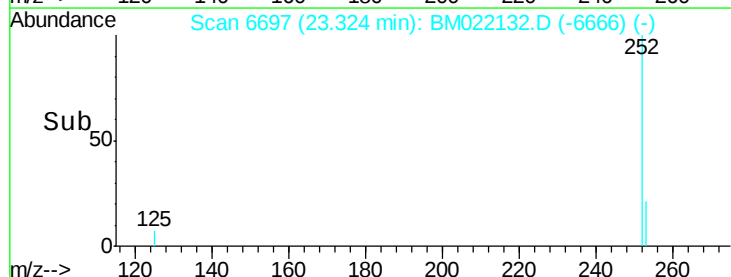
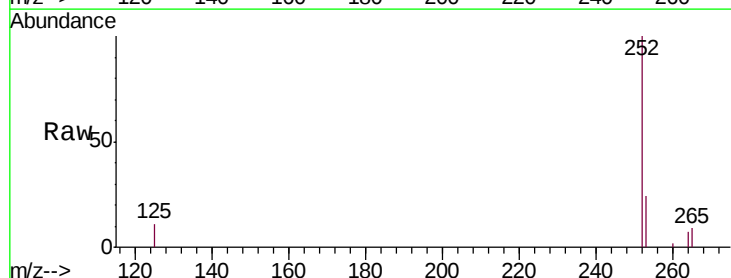
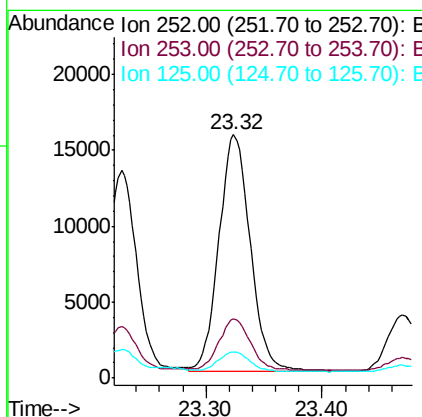
RT: 23.32 min Scan# 6697

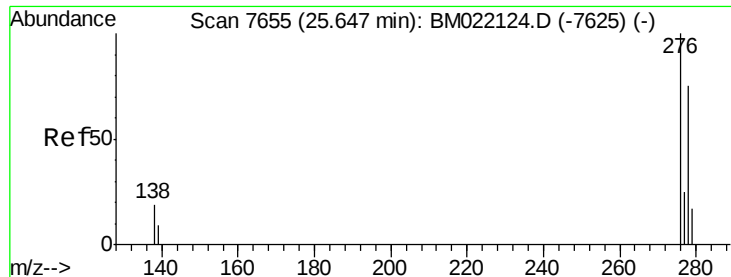
Delta R.T. -0.02 min

Lab File: BM022132.D

Acq: 15 Aug 2019 07:02

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 29125 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.2  | 31.7  | 47.5# |
| 125       | 10.7  | 14.6  | 21.8# |





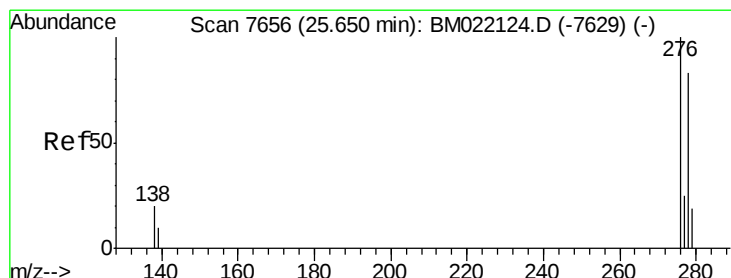
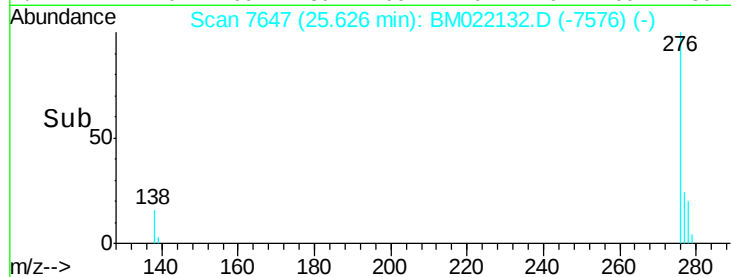
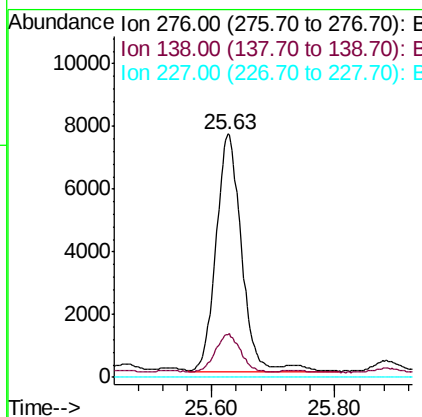
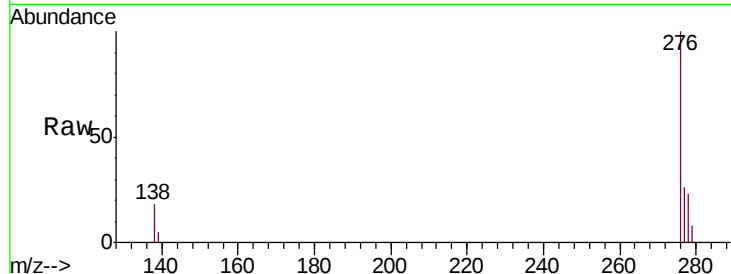
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.050 ng/u1  
 RT: 25.63 min Scan# 7647  
 Delta R.T. -0.03 min  
 Lab File: BM022132.D  
 Acq: 15 Aug 2019 07:02

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB5P2DL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.5  | 15.1  | 22.7  |
| 227     | 0.0   | 0.0   | 0.0   |

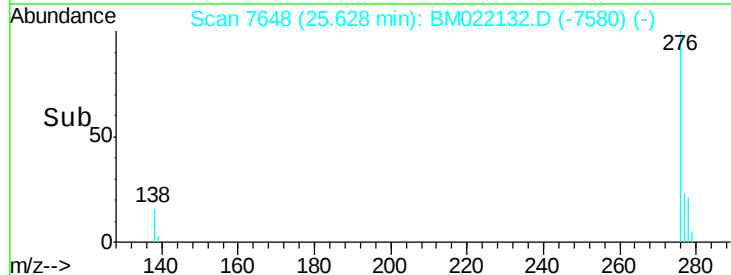
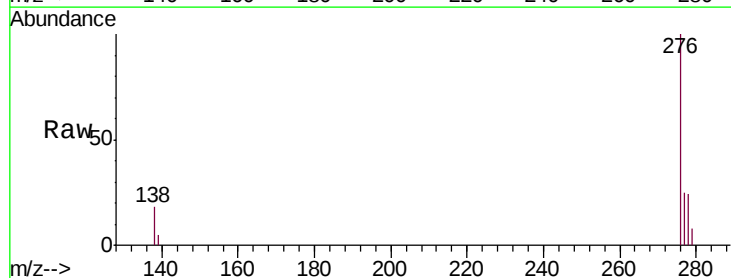
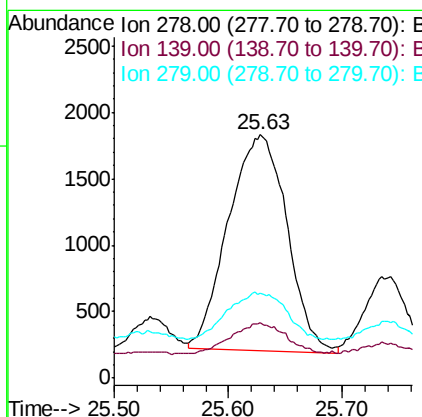
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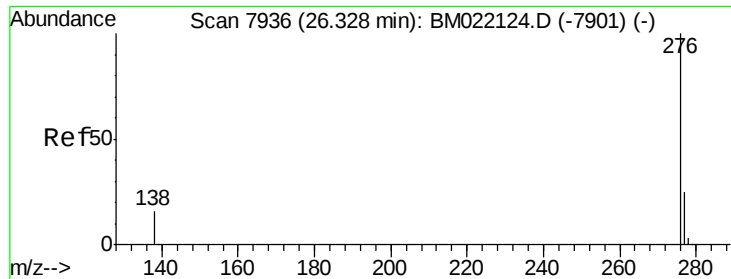
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.346 ng/u1  
 RT: 25.63 min Scan# 7648  
 Delta R.T. -0.04 min  
 Lab File: BM022132.D  
 Acq: 15 Aug 2019 07:02

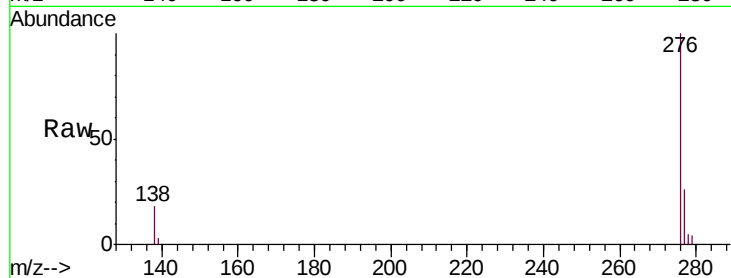
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 23.0  | 14.2  | 21.2# |
| 279     | 34.8  | 28.3  | 42.5  |





#26  
Benzo(g,h,i)perylene  
Concen: 1.033 ng/u1  
RT: 26.31 min Scan# 7928  
Delta R.T. -0.03 min  
Lab File: BM022132.D  
Acq: 15 Aug 2019 07:02

Instrument :  
BNA\_M  
ClientSampleId :  
CB5P2DL



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 19286 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 18.3  | 15.5  | 23.3  |
| 277       | 25.8  | 21.4  | 32.2  |

Manual Integrations  
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