

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080719\  
 Data File : BM021961.D  
 Acq On : 09 Aug 2019 09:19  
 Operator : HP/JU  
 Sample : K4029-01  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BENQ8

Manual Integrations  
 APPROVED

Sohil  
 8/13/2019 8:30:44 AM

Quant Time: Aug 09 13:15:12 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 : Fri Aug 09 01:29:50 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 966      | 0.40  | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.39 | 136  | 4109     | 0.40  | ng/ul  | -0.02    |
| 6) Acenaphthene-d10         | 14.27 | 164  | 2214     | 0.40  | ng/ul  | -0.01    |
| 10) Phenanthrene-d10        | 17.03 | 188  | 5189m    | 0.40  | ng/ul  | -0.02    |
| 16) Chrysene-d12            | 21.23 | 240  | 4923m    | 0.40  | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.44 | 264  | 5133m    | 0.40  | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |       |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.01 | 152  | 1609     | 0.24  | ng/ul  | -0.01    |
| 14) Fluoranthene-d10        | 19.06 | 212  | 4294m    | 0.25  | ng/ul  | -0.02    |
| Target Compounds            |       |      |          |       | Ovalue |          |
| 3) Naphthalene              | 10.44 | 128  | 353      | 0.030 | ng/ul# | 67       |
| 5) 2-Methylnaphthalene      | 12.08 | 142  | 206      | 0.027 | ng/ul  | 99       |
| 7) Acenaphthylene           | 13.99 | 152  | 1112     | 0.108 | ng/ul# | 79       |
| 8) Acenaphthene             | 14.33 | 153  | 302      | 0.036 | ng/ul  | 94       |
| 9) Fluorene                 | 15.33 | 166  | 428      | 0.046 | ng/ul# | 95       |
| 12) Phenanthrene            | 17.07 | 178  | 8625     | 0.571 | ng/ul  | 98       |
| 13) Anthracene              | 17.16 | 178  | 2404m    | 0.187 | ng/ul  |          |
| 15) Fluoranthene            | 19.09 | 202  | 21423m   | 1.059 | ng/ul  |          |
| 17) Pyrene                  | 19.46 | 202  | 21081    | 1.042 | ng/ul  | 98       |
| 18) Benzo(a)anthracene      | 21.21 | 228  | 12774m   | 0.725 | ng/ul  |          |
| 19) Chrysene                | 21.27 | 228  | 13411    | 0.592 | ng/ul  | 99       |
| 21) Benzo(b)fluoranthene    | 22.78 | 252  | 16971m   | 0.980 | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.82 | 252  | 7353m    | 0.375 | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.34 | 252  | 11997    | 0.682 | ng/ul# | 82       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.66 | 276  | 8202     | 0.390 | ng/ul# | 100      |
| 25) Dibenzo(a,h)anthracene  | 25.66 | 278  | 2200     | 0.129 | ng/ul# | 70       |
| 26) Benzo(a,h,i)perylene    | 26.34 | 276  | 6854     | 0.362 | ng/ul  | 99       |

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

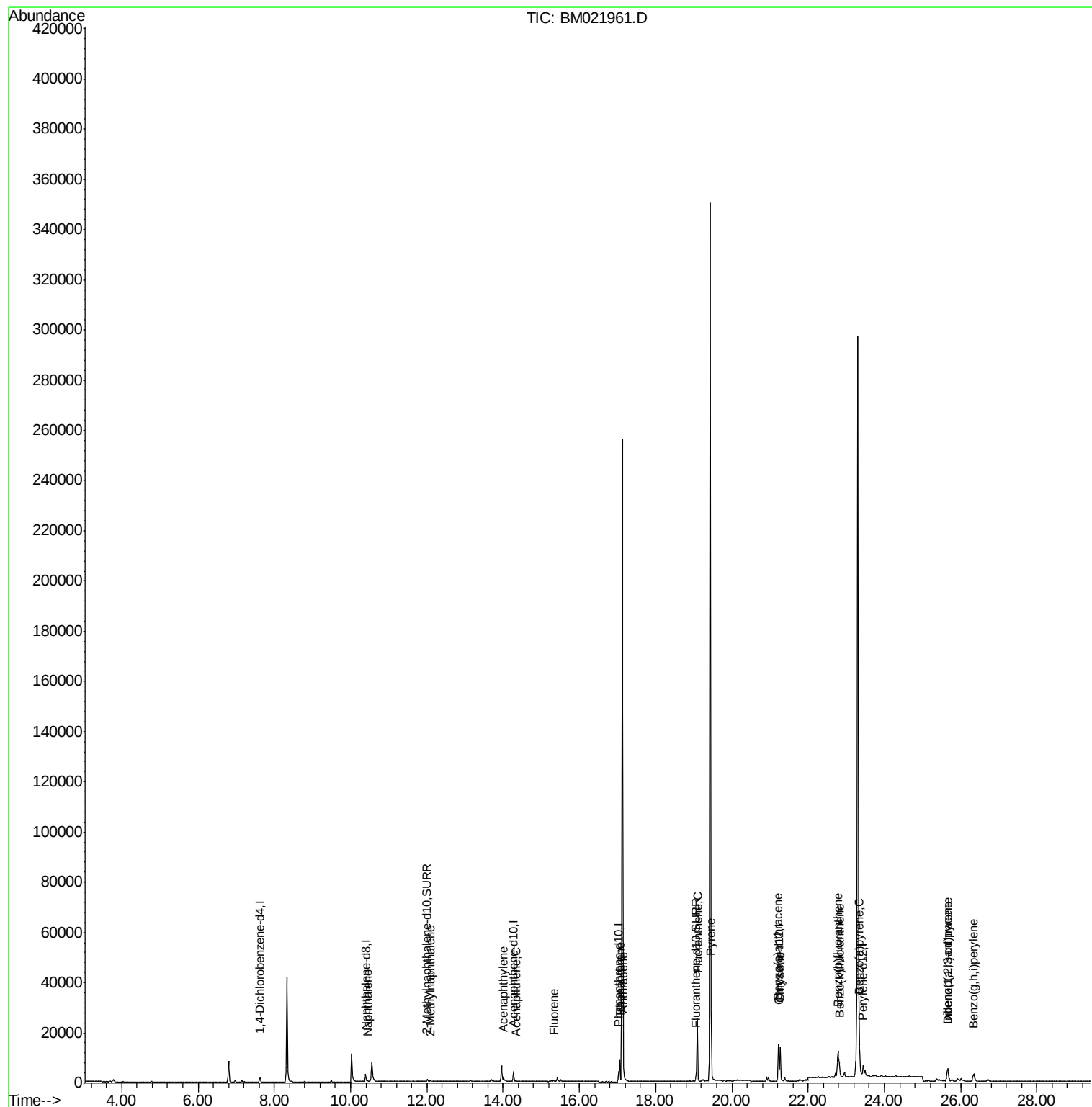
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080719\  
Data File : BM021961.D  
Acq On : 09 Aug 2019 09:19  
Operator : HP/JU  
Sample : K4029-01  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

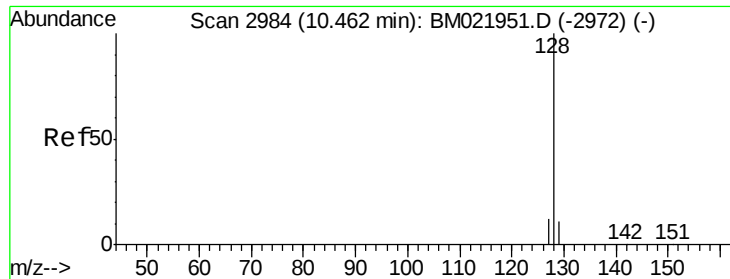
Instrument :  
BNA\_M  
ClientSampleId :  
BENQ8

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8/13/2019 8:30:44 AM

Quant Time: Aug 09 13:15:12 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 : Fri Aug 09 01:29:50 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.030 ng/ul

RT: 10.44 min Scan# 2980

Delta R.T. -0.02 min

Lab File: BM021961.D

Acq: 09 Aug 2019 09:19

Instrument :

BNA\_M

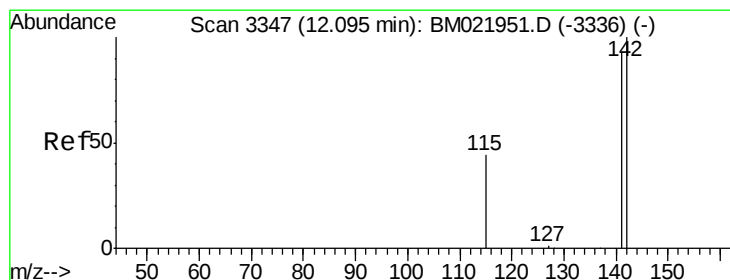
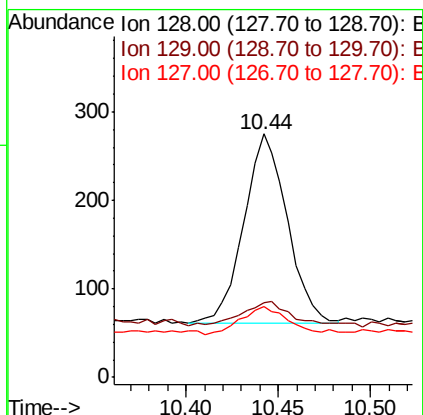
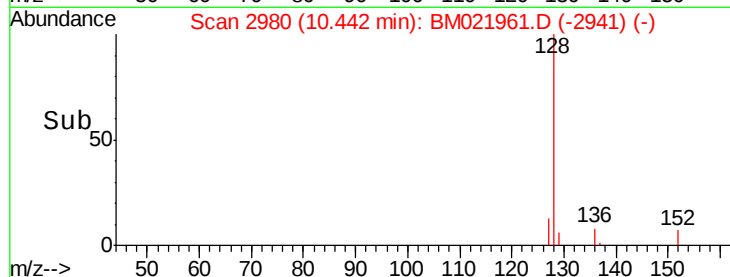
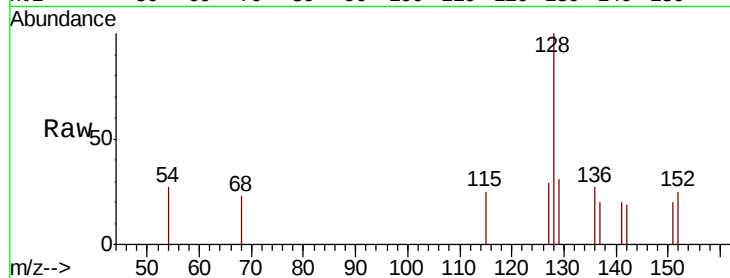
ClientSampleId :

BENQ8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 128   | Resp: | 353   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 30.9  | 12.3  | 18.5# |
| 127       | 29.1  | 13.0  | 19.6# |

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#5

2-Methylnaphthalene

Concen: 0.027 ng/ul

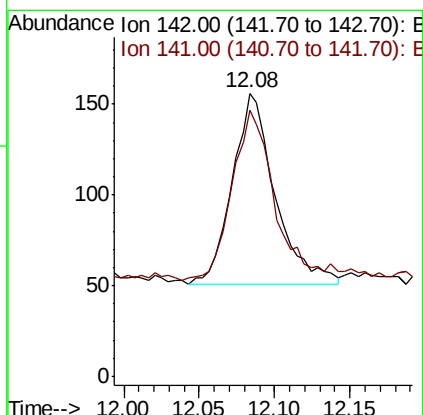
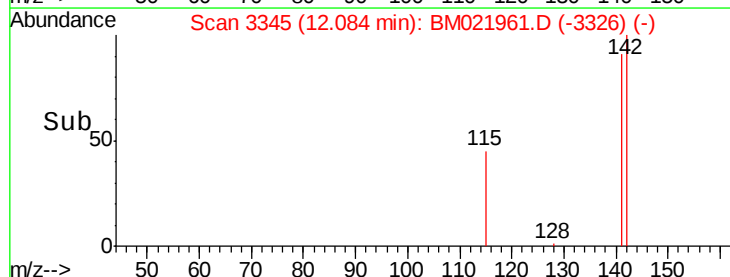
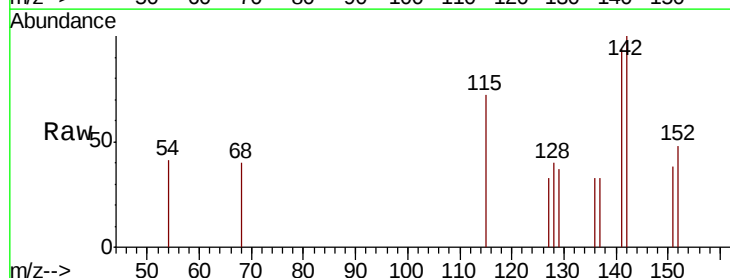
RT: 12.08 min Scan# 3345

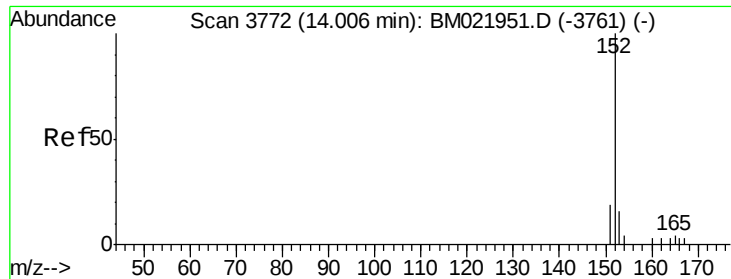
Delta R.T. -0.01 min

Lab File: BM021961.D

Acq: 09 Aug 2019 09:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 206   |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 93.7  | 74.3  | 111.5 |





#7

Acenaphthylene

Concen: 0.108 ng/ul

RT: 13.99 min Scan# 3770

Delta R.T. -0.01 min

Lab File: BM021961.D

Acq: 09 Aug 2019 09:19

Instrument :

BNA\_M

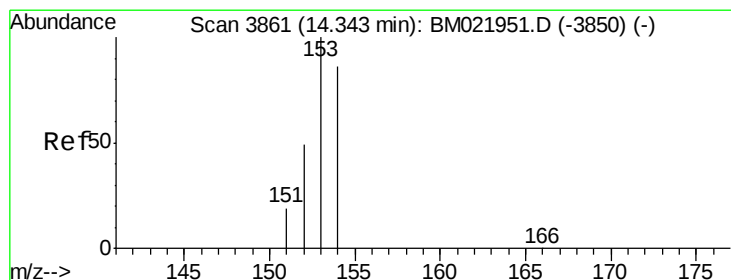
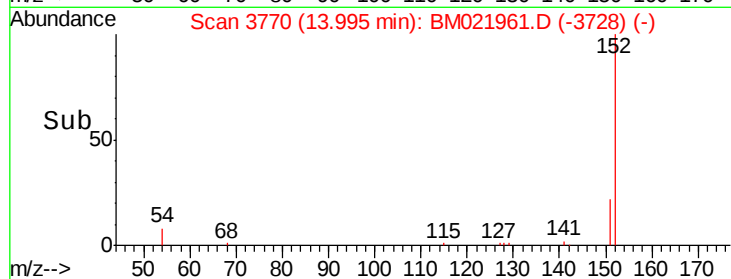
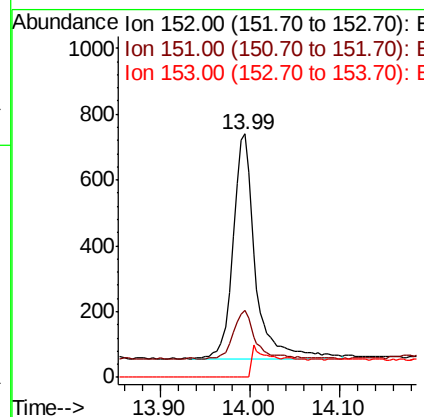
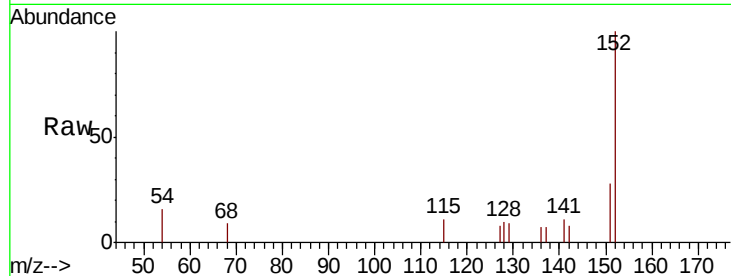
ClientSampled :

BENQ8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 1112  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 27.6  | 18.3  | 27.5# |
| 153       | 0.0   | 12.8  | 19.2# |

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#8

Acenaphthene

Concen: 0.036 ng/ul

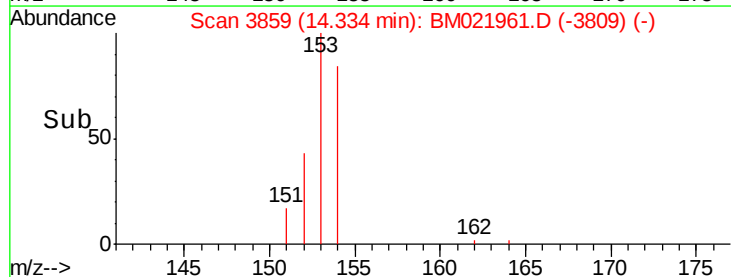
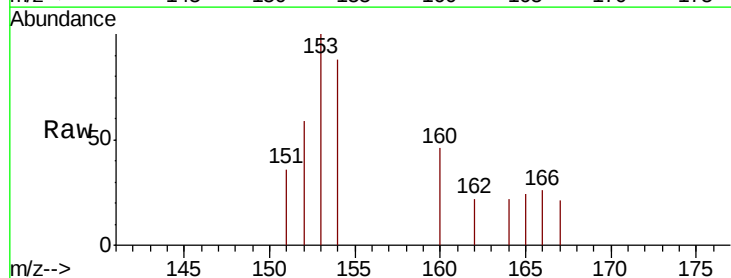
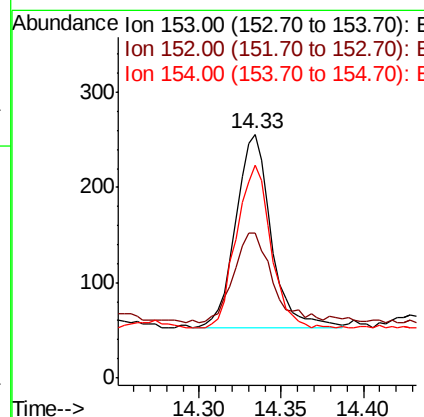
RT: 14.33 min Scan# 3859

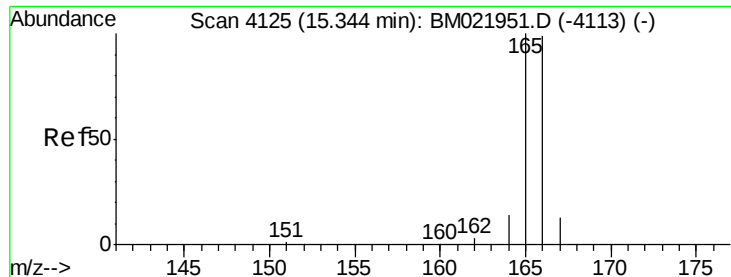
Delta R.T. -0.01 min

Lab File: BM021961.D

Acq: 09 Aug 2019 09:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 302   |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 59.4  | 41.3  | 61.9  |
| 154       | 87.5  | 72.3  | 108.5 |





#9

Fluorene

Concen: 0.046 ng/ul

RT: 15.33 min Scan# 4121

Delta R.T. -0.02 min

Lab File: BM021961.D

Acq: 09 Aug 2019 09:19

Instrument :

BNA\_M

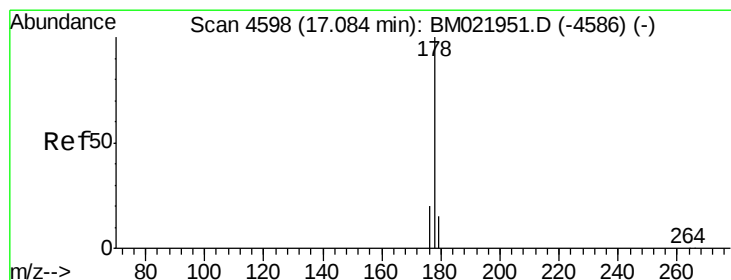
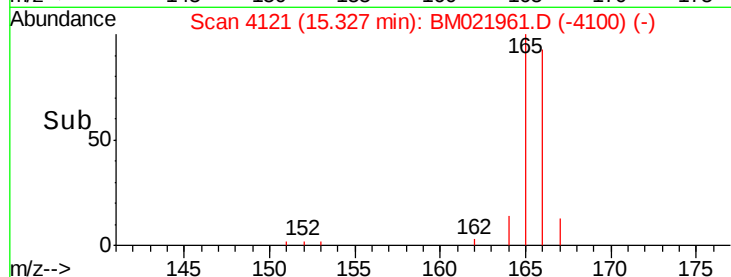
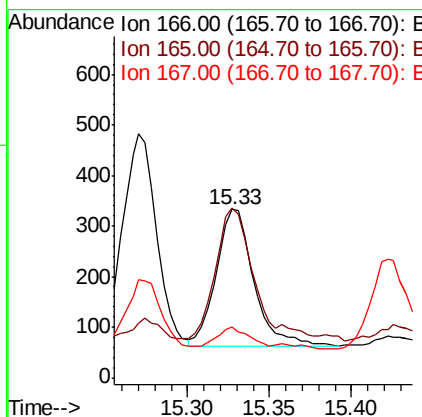
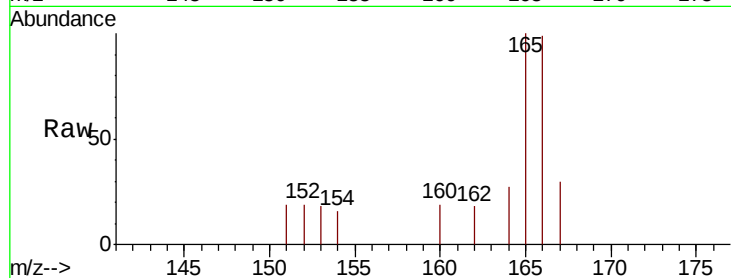
ClientSampled :

BENQ8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 166   | Resp: | 428   |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 100.9 | 81.4  | 122.0 |
| 167       | 30.4  | 13.7  | 20.5# |

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#12

Phenanthrene

Concen: 0.571 ng/ul

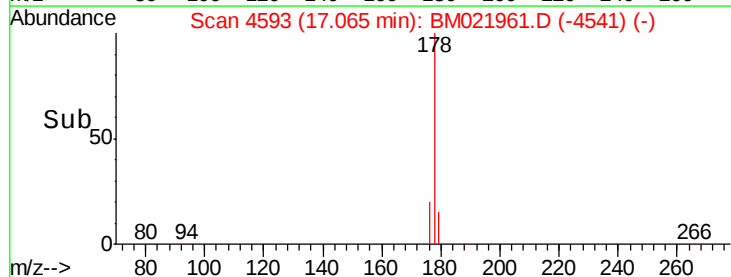
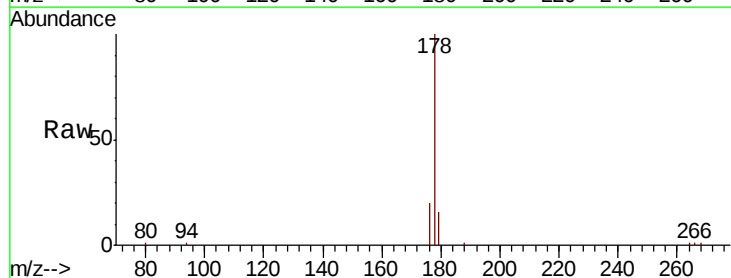
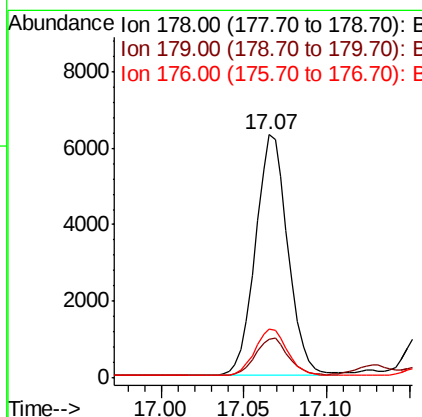
RT: 17.07 min Scan# 4593

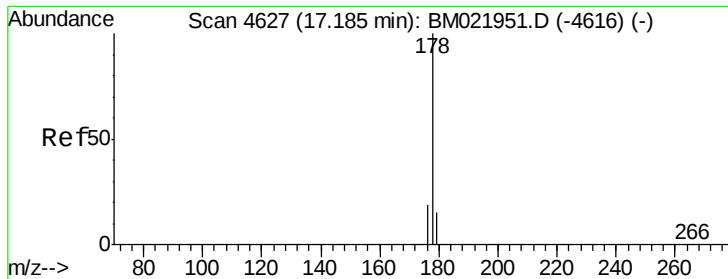
Delta R.T. -0.02 min

Lab File: BM021961.D

Acq: 09 Aug 2019 09:19

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 8625 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 179       | 16.2  | 14.2  | 21.2 |
| 176       | 20.3  | 16.8  | 25.2 |





#13

Anthracene

Concen: 0.187 ng/ul m

RT: 17.16 min Scan# 4620

Delta R.T. -0.02 min

Lab File: BM021961.D

Acq: 09 Aug 2019 09:19

Instrument :

BNA\_M

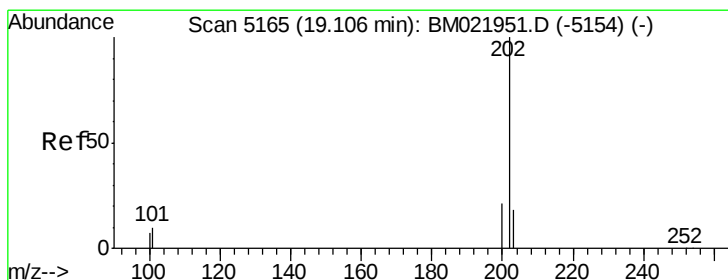
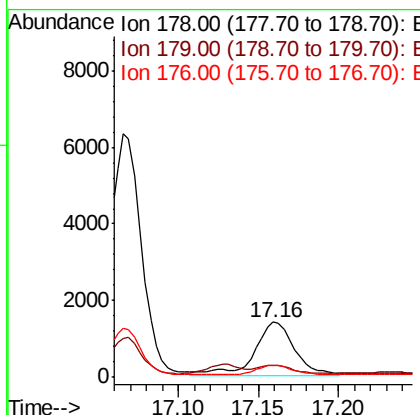
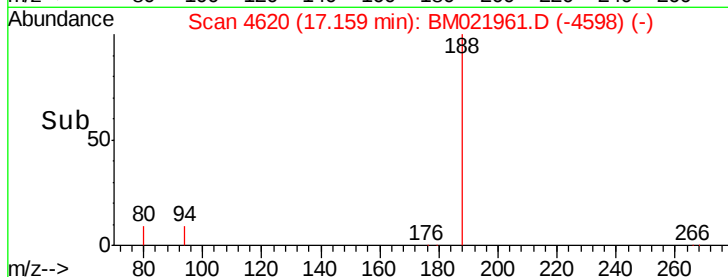
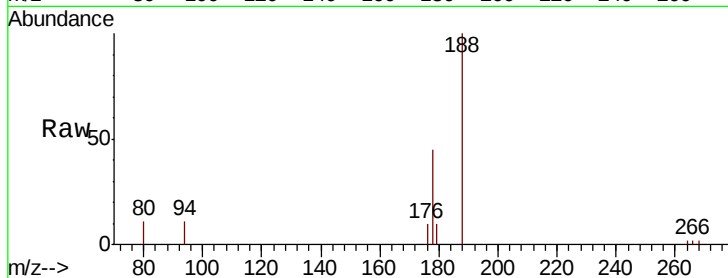
ClientSampleId :

BENQ8

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 178   | Resp: | 2404  |
| Ion      | Ratio | Lower | Upper |
| 178      | 100   |       |       |
| 179      | 21.4  | 15.5  | 23.3  |
| 176      | 22.3  | 16.6  | 25.0  |

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#15

Fluoranthene

Concen: 1.059 ng/ul m

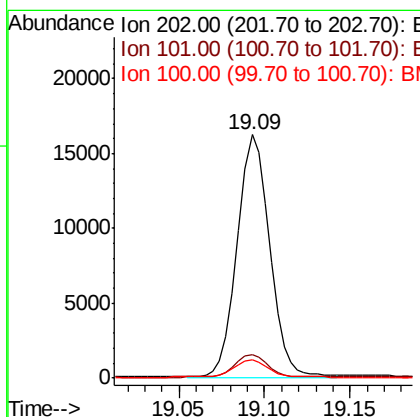
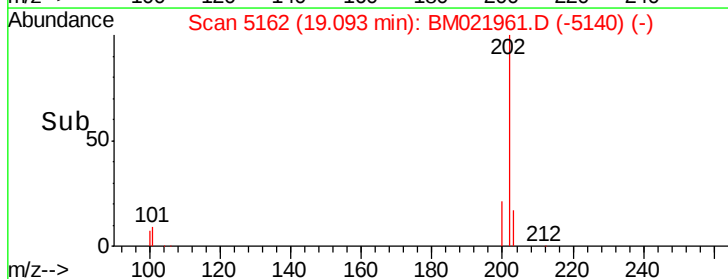
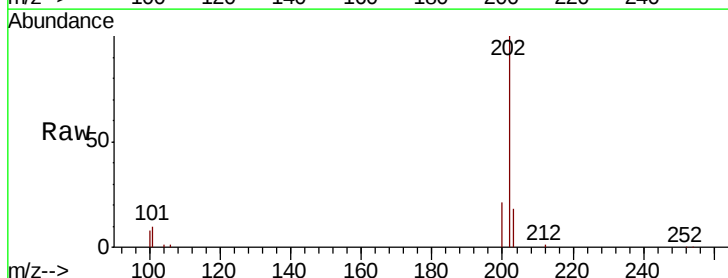
RT: 19.09 min Scan# 5162

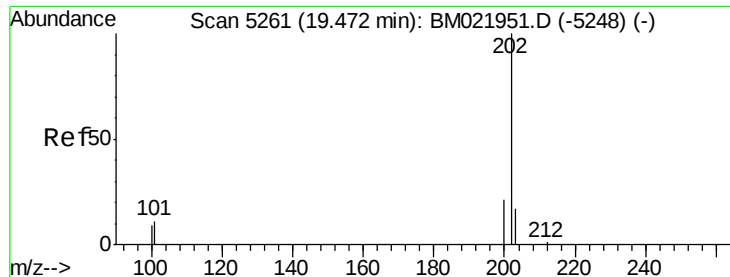
Delta R.T. -0.02 min

Lab File: BM021961.D

Acq: 09 Aug 2019 09:19

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 21423 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 9.7   | 0.0   | 30.2  |
| 100      | 7.6   | 0.0   | 28.1  |





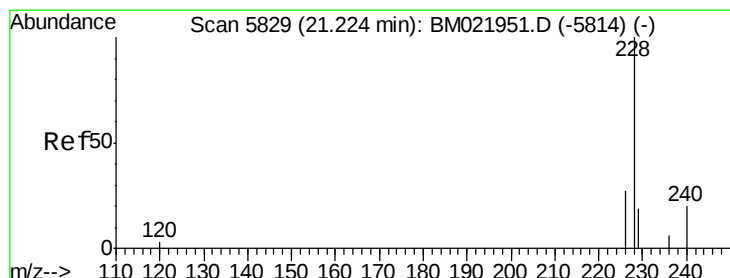
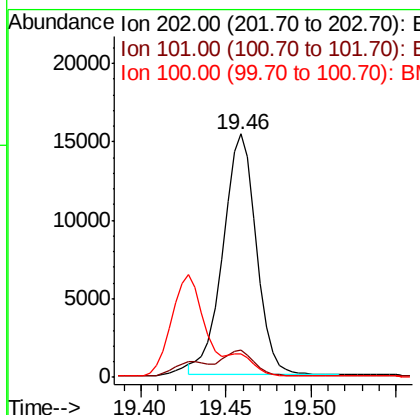
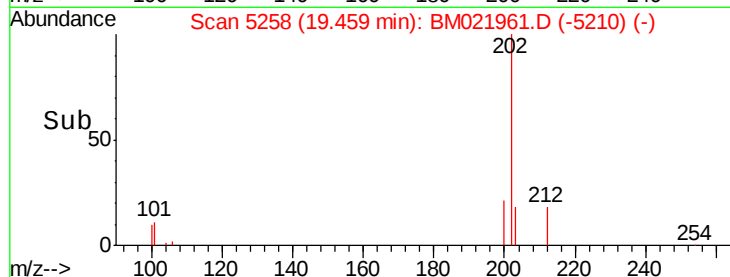
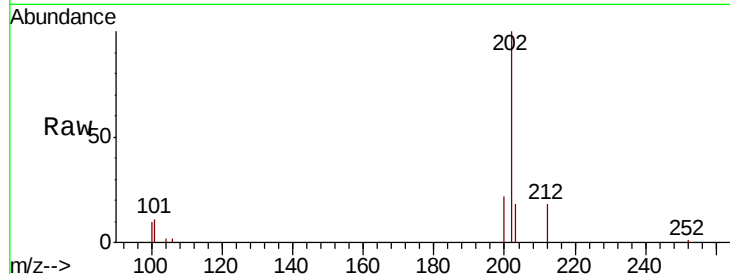
#17  
Pvrene  
Concen: 1.042 ng/ul  
RT: 19.46 min Scan# 5258  
Delta R.T. -0.02 min  
Lab File: BM021961.D  
Acq: 09 Aug 2019 09:19

Instrument :  
BNA\_M  
ClientSampleId :  
BENQ8

| Tot Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 202     | 100   |            |            |
| 101     | 11.2  | 8.3        | 12.5       |
| 100     | 9.9   | 7.2        | 10.8       |

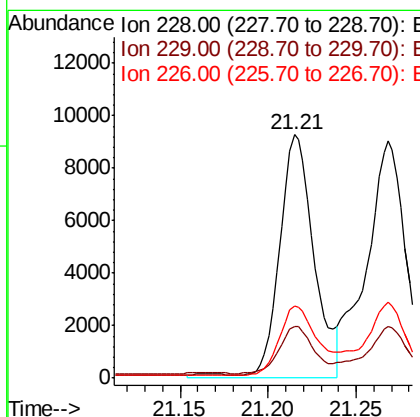
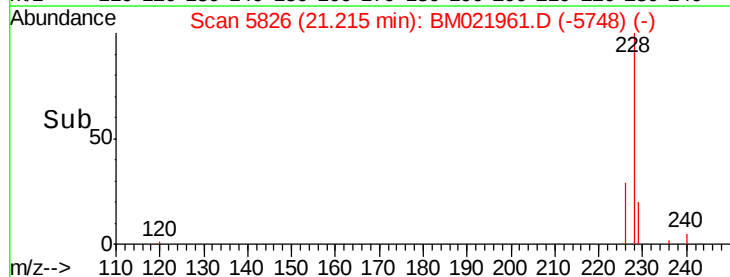
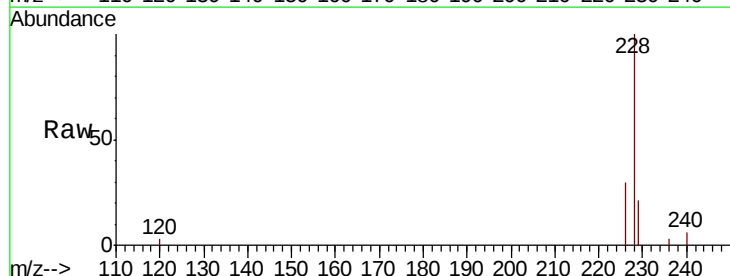
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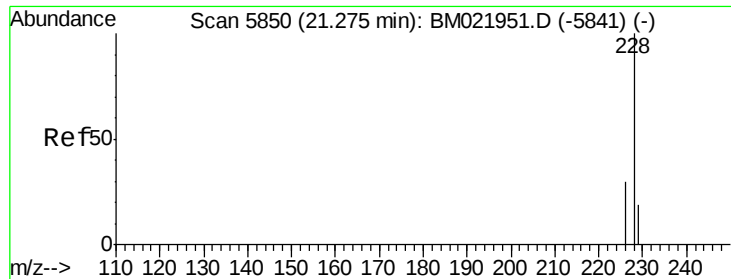
Sohil  
8/13/2019 8:30:44 AM



#18  
Benzo(a)anthracene  
Concen: 0.725 ng/ul m  
RT: 21.21 min Scan# 5826  
Delta R.T. -0.01 min  
Lab File: BM021961.D  
Acq: 09 Aug 2019 09:19

| Tgt Ion | Ratio | Resp Lower | Resp Upper |
|---------|-------|------------|------------|
| 228     | 100   |            |            |
| 229     | 21.3  | 17.2       | 25.8       |
| 226     | 29.8  | 22.6       | 34.0       |





#19

Chrysene

Concen: 0.592 ng/ul

RT: 21.27 min Scan# 5848

Delta R.T. -0.01 min

Lab File: BM021961.D

Acq: 09 Aug 2019 09:19

Instrument :

BNA\_M

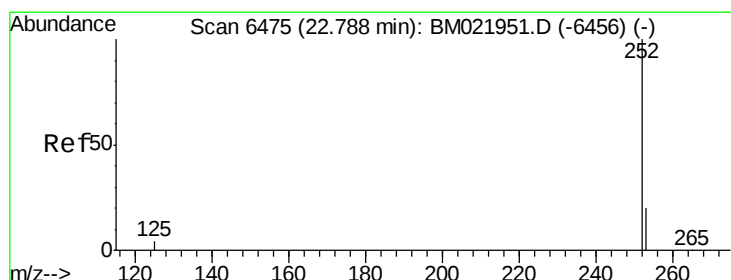
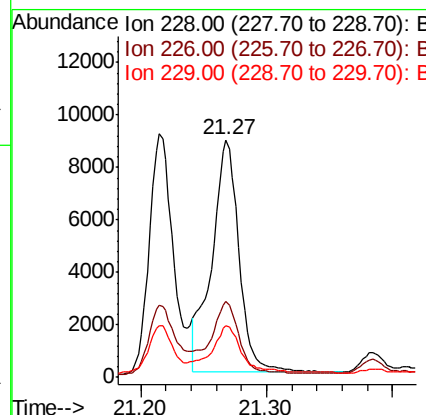
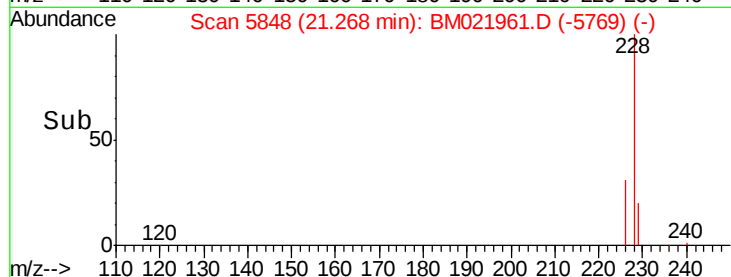
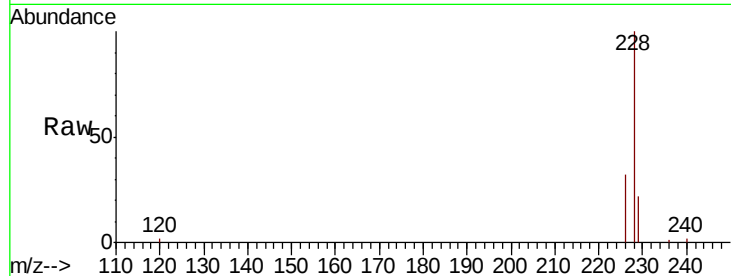
ClientSampleId :

BENQ8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 13411 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.7  | 24.9  | 37.3  |
| 229       | 21.5  | 16.6  | 25.0  |

Manual Integrations  
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8/13/2019 8:30:44 AM



#21

Benzo(b)fluoranthene

Concen: 0.980 ng/ul m

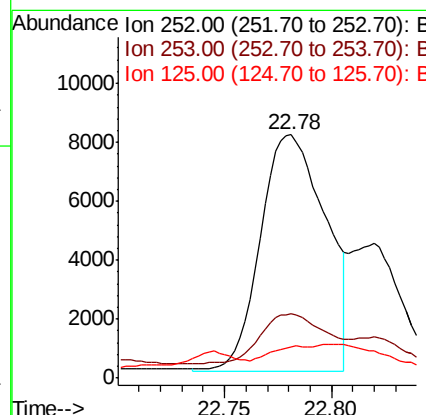
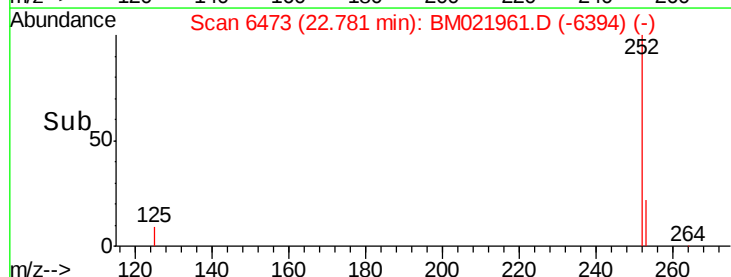
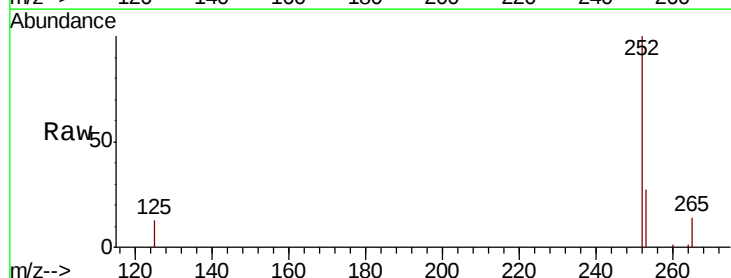
RT: 22.78 min Scan# 6473

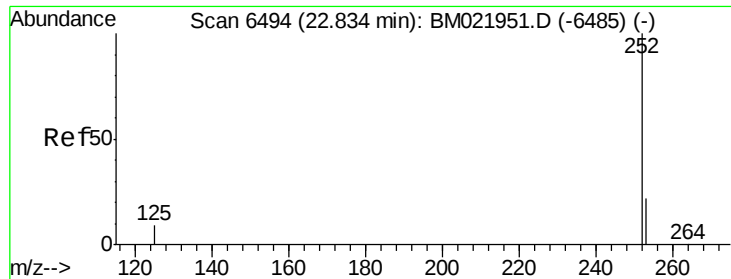
Delta R.T. -0.01 min

Lab File: BM021961.D

Acq: 09 Aug 2019 09:19

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 16971 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 26.6  | 0.0   | 67.4  |
| 125       | 12.6  | 0.0   | 31.0  |





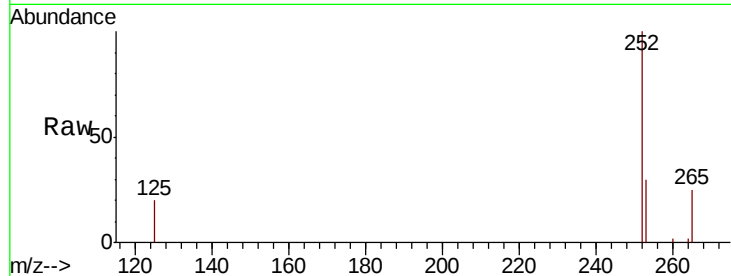
#22  
Benzo(k)fluoranthene  
Concen: 0.375 ng/ul m  
RT: 22.82 min Scan# 6489  
Delta R.T. -0.01 min  
Lab File: BM021961.D  
Acq: 09 Aug 2019 09:19

Instrument :  
BNA\_M  
ClientSampled :  
BENQ8

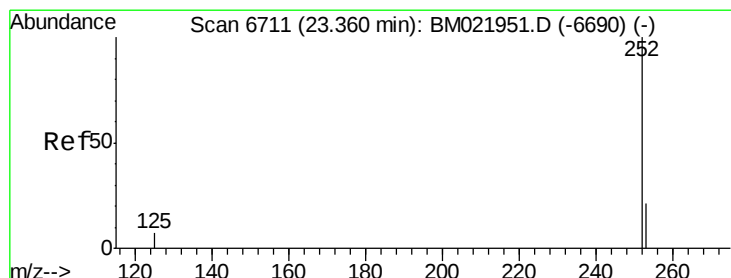
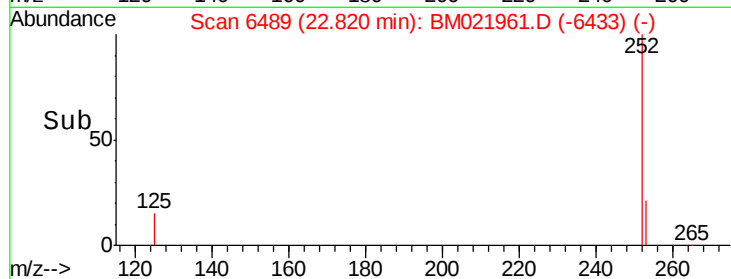
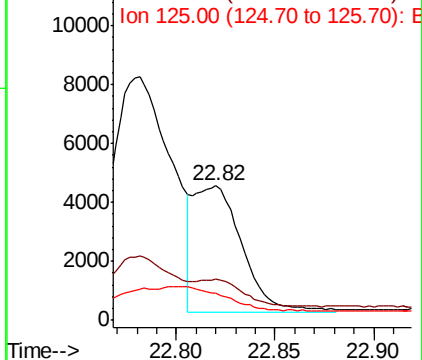
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 30.5  | 27.0  | 40.4  |
| 125     | 20.3  | 12.2  | 18.2  |

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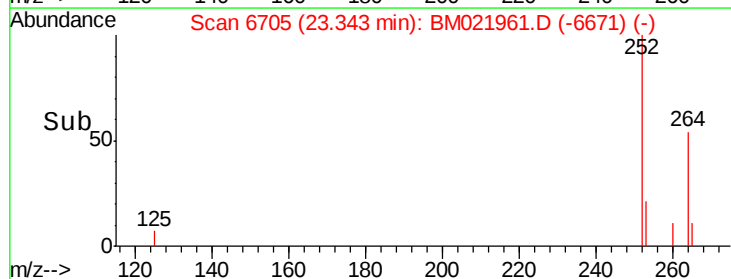
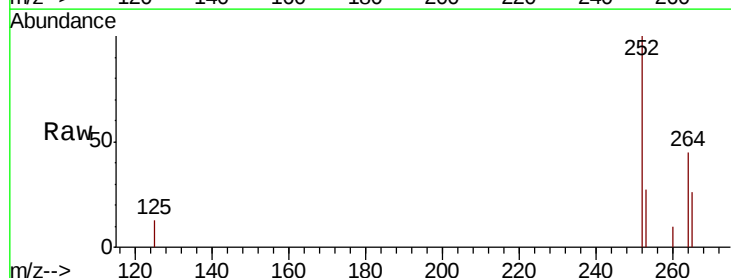
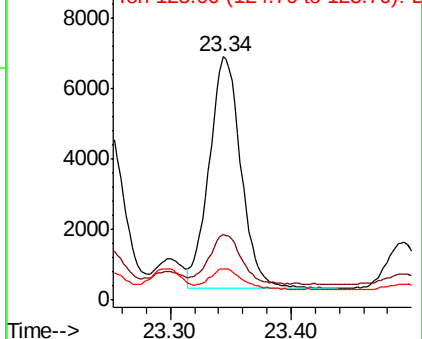
Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E

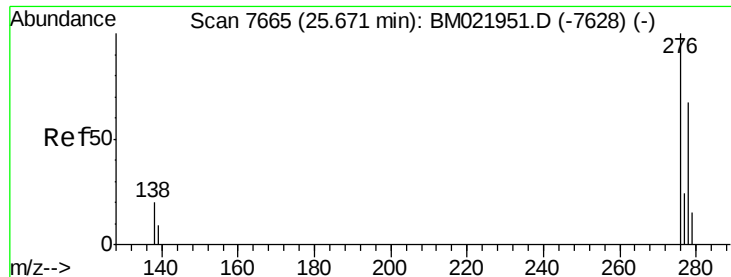


#23  
Benzo(a)pyrene  
Concen: 0.682 ng/ul  
RT: 23.34 min Scan# 6705  
Delta R.T. -0.02 min  
Lab File: BM021961.D  
Acq: 09 Aug 2019 09:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.9  | 31.7  | 47.5  |
| 125     | 12.9  | 14.6  | 21.8  |

Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E





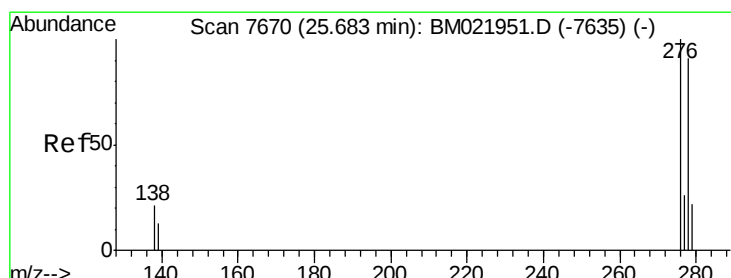
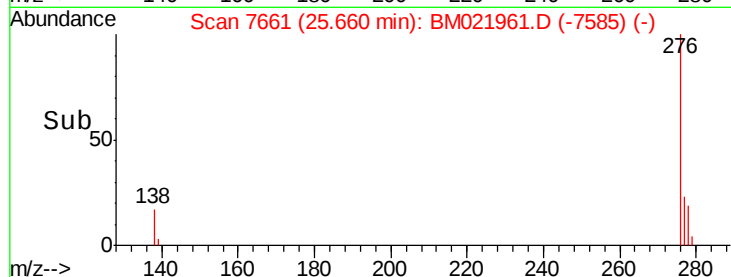
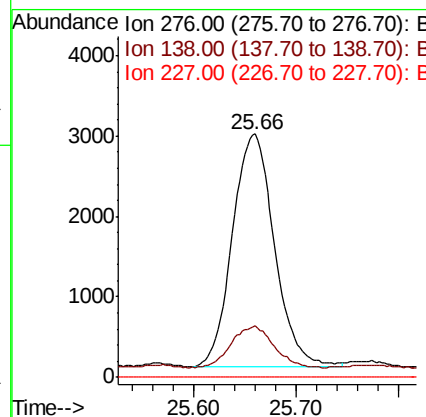
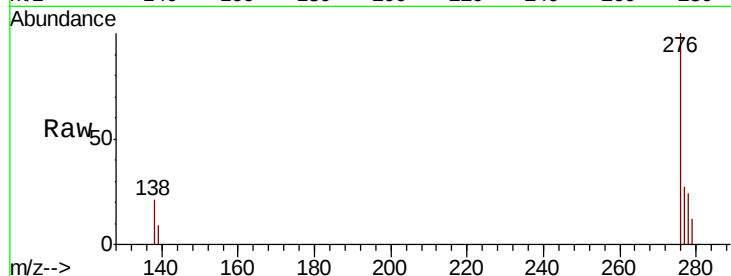
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.390 ng/uL  
 RT: 25.66 min Scan# 7661  
 Delta R.T. -0.02 min  
 Lab File: BM021961.D  
 Acq: 09 Aug 2019 09:19

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BENQ8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 19.0  | 15.1  | 22.7  |
| 227     | 0.0   | 0.0   | 0.0   |

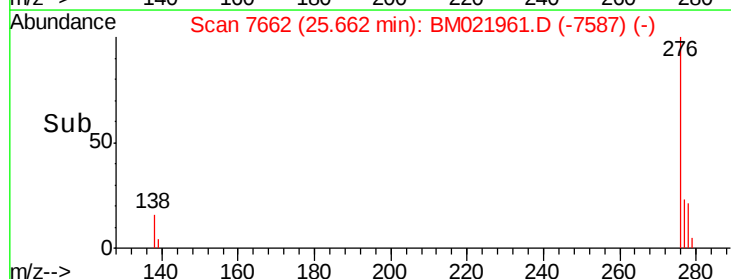
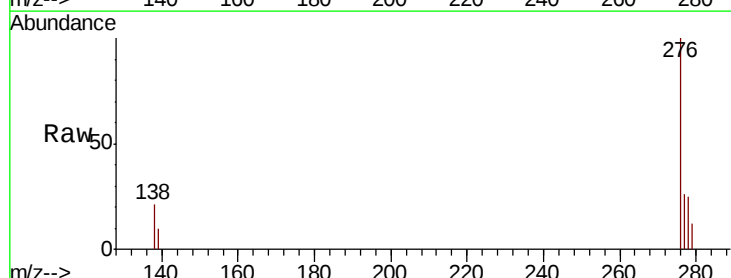
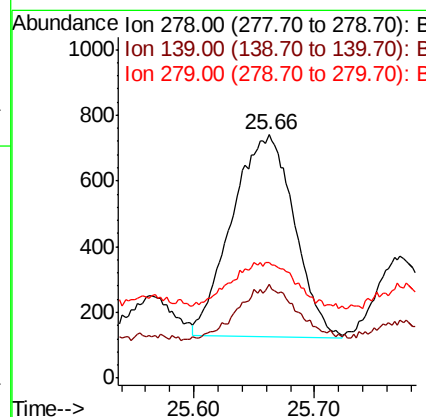
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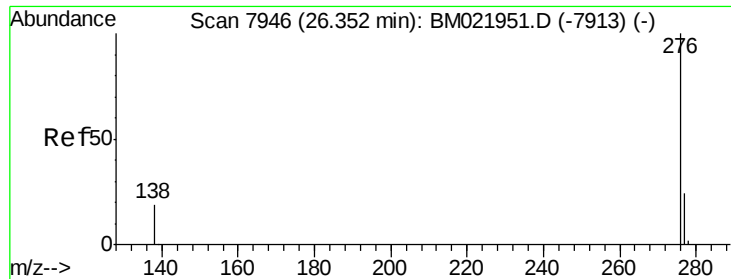
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.129 ng/uL  
 RT: 25.66 min Scan# 7662  
 Delta R.T. -0.02 min  
 Lab File: BM021961.D  
 Acq: 09 Aug 2019 09:19

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 38.3  | 14.2  | 21.2# |
| 279     | 47.6  | 28.3  | 42.5# |





#26  
 Benzo(a,h,i)perylene  
 Concen: 0.362 ng/ul  
 RT: 26.34 min Scan# 7941  
 Delta R.T. -0.02 min  
 Lab File: BM021961.D  
 Acq: 09 Aug 2019 09:19

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BENQ8

|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 6854 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 20.6  | 15.5  | 23.3 |
| 277       | 26.7  | 21.4  | 32.2 |

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