

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080719\  
 Data File : BM021910.D  
 Acq On : 07 Aug 2019 23:45  
 Operator : HP/JU  
 Sample : K4029-16  
 Misc :  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BENY6

Manual Integrations  
 APPROVED

mohammad  
 8/9/2019 6:11:08 AM

Quant Time: Aug 08 05:50:51 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 : Thu Aug 08 04:39:13 2019  
 Response via : Initial Calibration

| Internal Standards          | R.T.  | QIon | Response | Conc   | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|--------|--------|----------|
| 1) 1,4-Dichlorobenzene-d4   | 7.62  | 152  | 818      | 0.40   | ng/ul  | 0.00     |
| 2) Naphthalene-d8           | 10.40 | 136  | 3572     | 0.40   | ng/ul  | -0.01    |
| 6) Acenaphthene-d10         | 14.28 | 164  | 2106     | 0.40   | ng/ul  | 0.00     |
| 10) Phenanthrene-d10        | 17.03 | 188  | 5047m    | 0.40   | ng/ul  | -0.02    |
| 16) Chrysene-d12            | 21.23 | 240  | 4886m    | 0.40   | ng/ul  | 0.00     |
| 20) Perylene-d12            | 23.45 | 264  | 4687m    | 0.40   | ng/ul  | -0.01    |
| System Monitoring Compounds |       |      |          |        |        |          |
| 4) 2-Methylnaphthalene-d10  | 12.01 | 152  | 1515     | 0.26   | ng/ul  | 0.00     |
| 14) Fluoranthene-d10        | 19.07 | 212  | 4476m    | 0.26   | ng/ul  | -0.02    |
| Target Compounds            |       |      |          | Ovalue |        |          |
| 3) Naphthalene              | 10.45 | 128  | 2255     | 0.224  | ng/ul  | 99       |
| 5) 2-Methylnaphthalene      | 12.08 | 142  | 2040     | 0.303  | ng/ul  | 98       |
| 7) Acenaphthylene           | 14.00 | 152  | 2556     | 0.260  | ng/ul# | 84       |
| 8) Acenaphthene             | 14.34 | 153  | 5784     | 0.720  | ng/ul  | 96       |
| 9) Fluorene                 | 15.33 | 166  | 7390     | 0.828  | ng/ul  | 97       |
| 12) Phenanthrene            | 17.07 | 178  | 69949m   | 4.763  | ng/ul  |          |
| 13) Anthracene              | 17.17 | 178  | 22365m   | 1.785  | ng/ul  |          |
| 15) Fluoranthene            | 19.10 | 202  | 74690m   | 3.797  | ng/ul  |          |
| 17) Pyrene                  | 19.46 | 202  | 63205    | 3.148  | ng/ul  | 100      |
| 18) Benzo(a)anthracene      | 21.22 | 228  | 38280m   | 2.190  | ng/ul  |          |
| 19) Chrysene                | 21.27 | 228  | 33662    | 1.498  | ng/ul  | 98       |
| 21) Benzo(b)fluoranthene    | 22.79 | 252  | 34497m   | 2.183  | ng/ul  |          |
| 22) Benzo(k)fluoranthene    | 22.82 | 252  | 14798m   | 0.827  | ng/ul  |          |
| 23) Benzo(a)pyrene          | 23.35 | 252  | 25772    | 1.603  | ng/ul# | 79       |
| 24) Indeno(1,2,3-cd)pyrene  | 25.66 | 276  | 13506    | 0.704  | ng/ul# | 96       |
| 25) Dibenzo(a,h)anthracene  | 25.67 | 278  | 4342     | 0.280  | ng/ul# | 89       |
| 26) Benzo(a,h,i)perylene    | 26.34 | 276  | 9911     | 0.574  | ng/ul  | 98       |

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

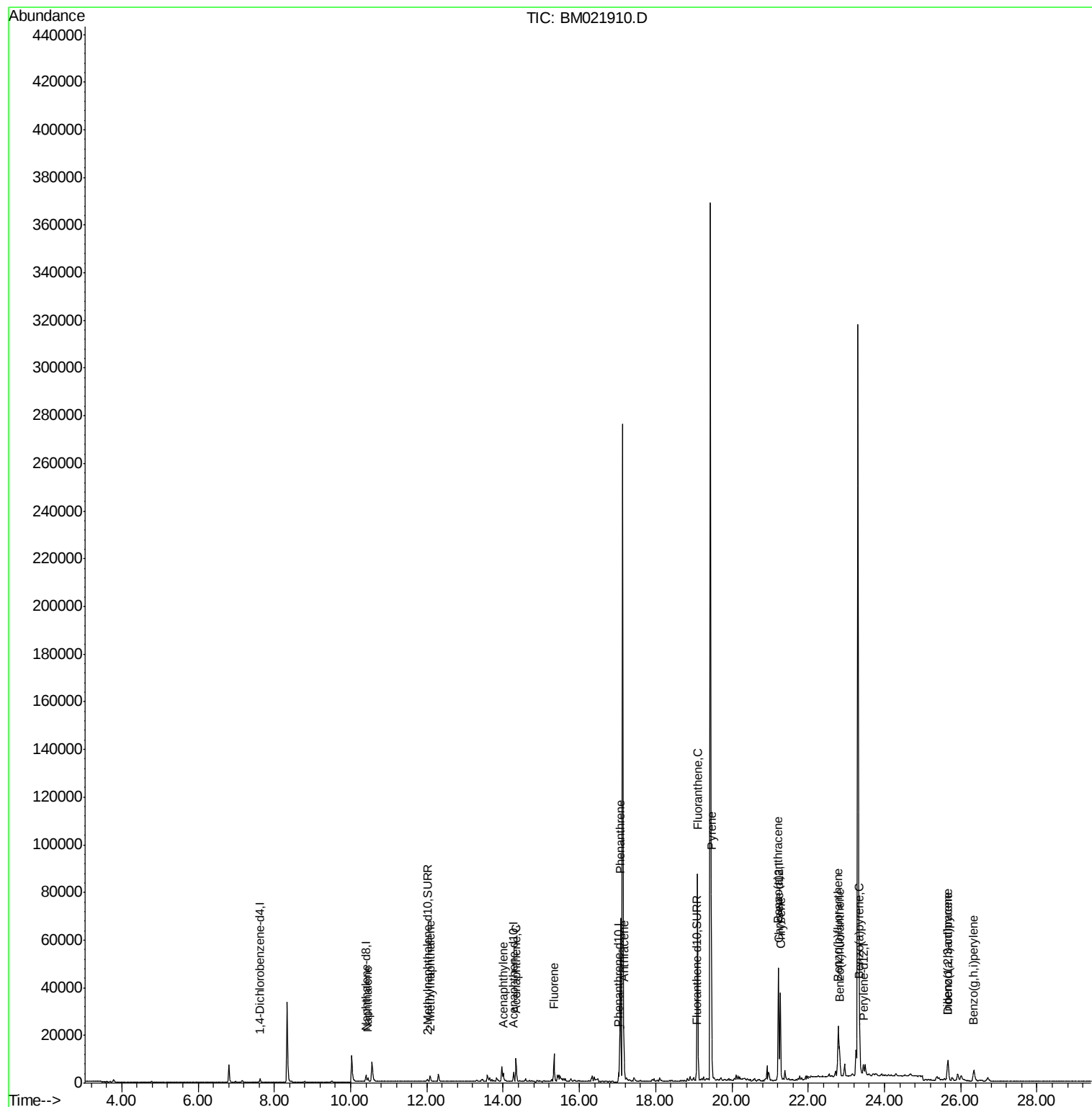
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM080719\  
Data File : BM021910.D  
Acq On : 07 Aug 2019 23:45  
Operator : HP/JU  
Sample : K4029-16  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

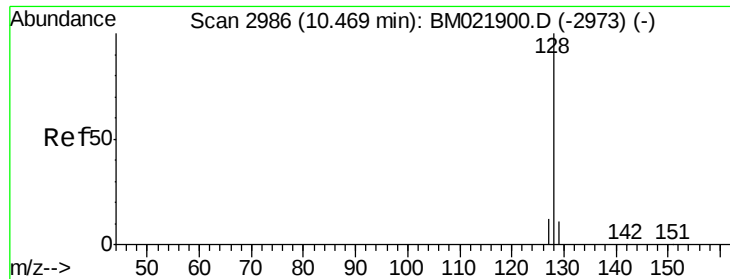
Instrument :  
BNA\_M  
ClientSampleId :  
BENY6

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Quant Time: Aug 08 05:50:51 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 : Thu Aug 08 04:39:13 2019  
Response via : Initial Calibration





#3

Naphthalene

Concen: 0.224 ng/ul

RT: 10.45 min Scan# 2982

Delta R.T. -0.02 min

Lab File: BM021910.D

Acq: 07 Aug 2019 23:45

Instrument :

BNA\_M

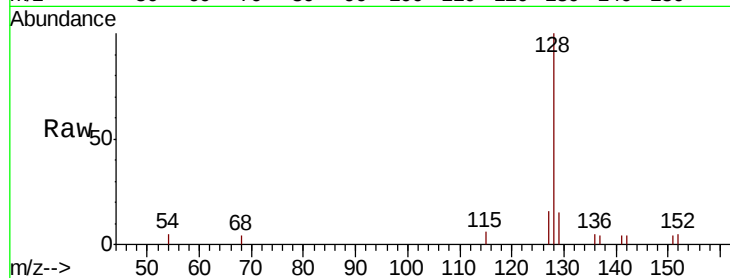
ClientSampleId :

BENY6

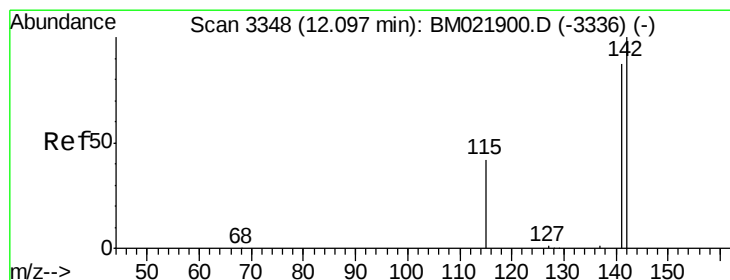
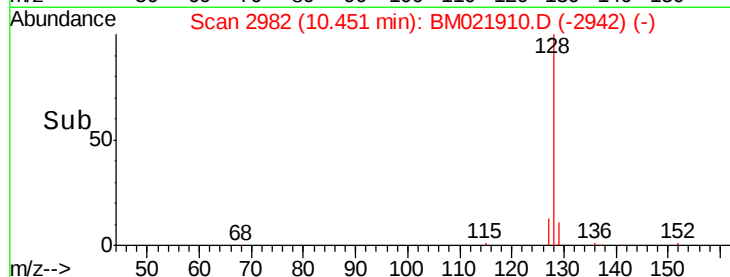
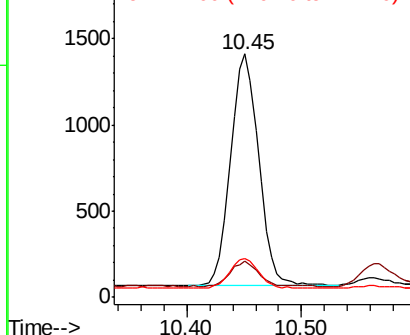
|             |       |       |
|-------------|-------|-------|
| Tot Ion:128 | Resp: | 2255  |
| Ion Ratio   | Lower | Upper |
| 128 100     |       |       |
| 129 15.1    | 12.3  | 18.5  |
| 127 16.1    | 13.0  | 19.6  |

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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



#5

2-Methylnaphthalene

Concen: 0.303 ng/ul

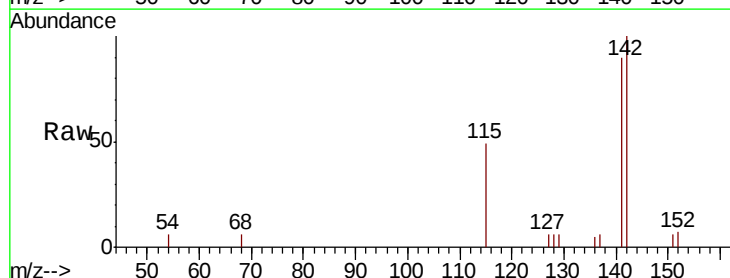
RT: 12.08 min Scan# 3345

Delta R.T. -0.01 min

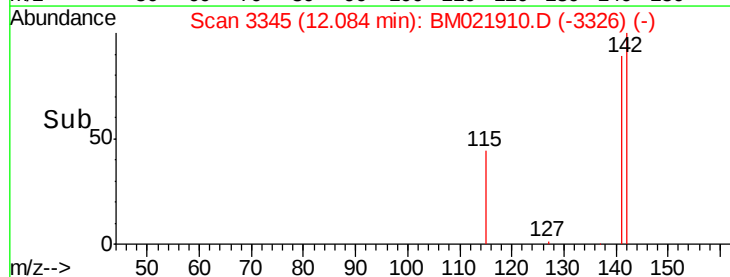
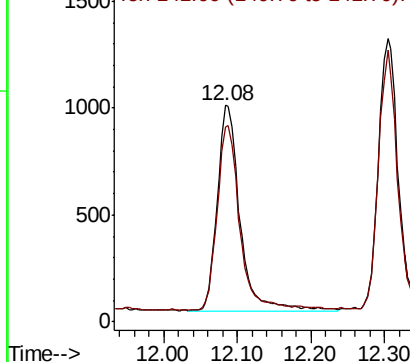
Lab File: BM021910.D

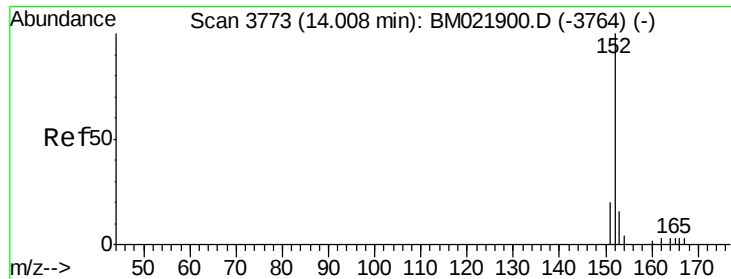
Acq: 07 Aug 2019 23:45

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:142 | Resp: | 2040  |
| Ion Ratio   | Lower | Upper |
| 142 100     |       |       |
| 141 90.9    | 74.3  | 111.5 |



Abundance Ion 142.00 (141.70 to 142.70): E  
Ion 141.00 (140.70 to 141.70): E





#7

Acenaphthylene

Concen: 0.260 ng/ul

RT: 14.00 min Scan# 3771

Delta R.T. -0.01 min

Lab File: BM021910.D

Acq: 07 Aug 2019 23:45

Instrument :

BNA\_M

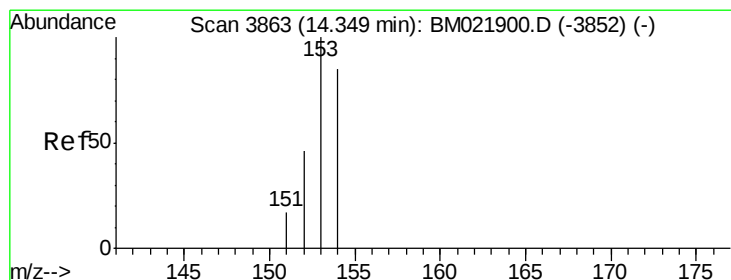
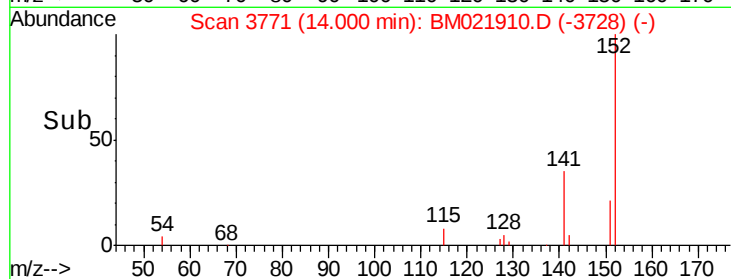
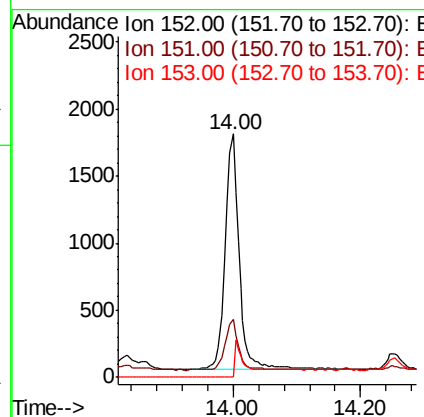
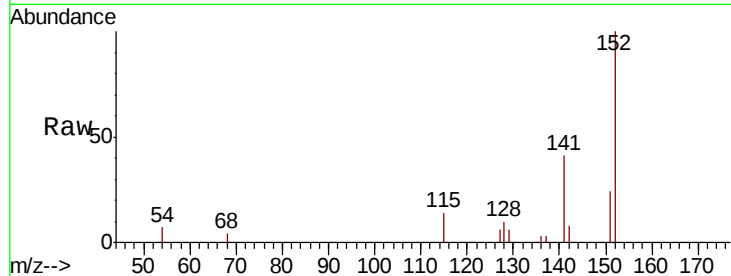
ClientSampled :

BENY6

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 152   | Resp: | 2556  |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 23.7  | 18.3  | 27.5  |
| 153       | 0.0   | 12.8  | 19.2# |

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#8

Acenaphthene

Concen: 0.720 ng/ul

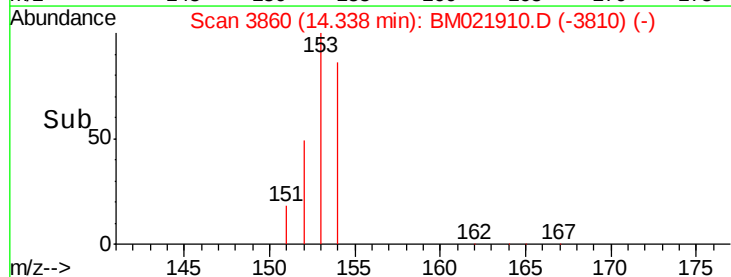
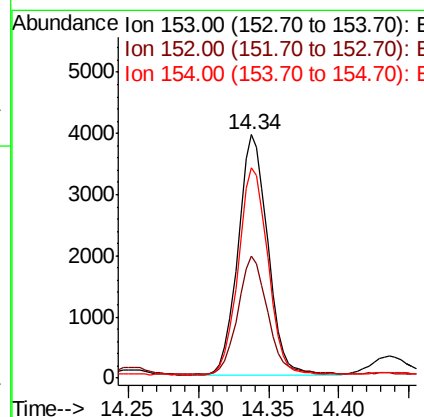
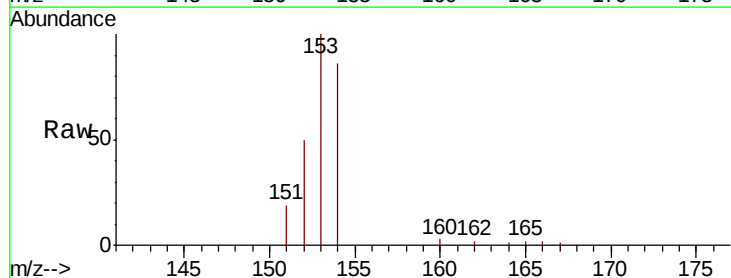
RT: 14.34 min Scan# 3860

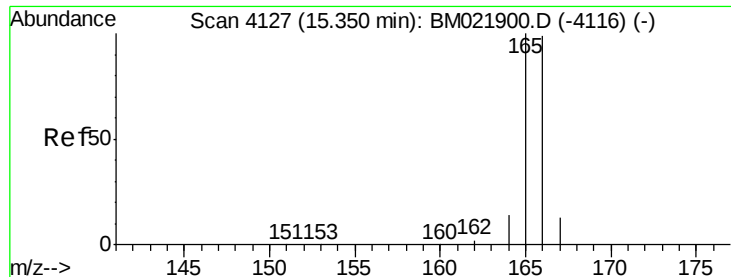
Delta R.T. -0.01 min

Lab File: BM021910.D

Acq: 07 Aug 2019 23:45

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 153   | Resp: | 5784  |
| Ion Ratio | Lower | Upper |       |
| 153       | 100   |       |       |
| 152       | 49.9  | 41.3  | 61.9  |
| 154       | 86.3  | 72.3  | 108.5 |





#9

Fluorene

Concen: 0.828 ng/ul

RT: 15.33 min Scan# 4123

Delta R.T. -0.02 min

Lab File: BM021910.D

Acq: 07 Aug 2019 23:45

Instrument :

BNA\_M

ClientSampleId :

BENY6

Tot Ion:166 Resp: 7390

Ion Ratio Lower Upper

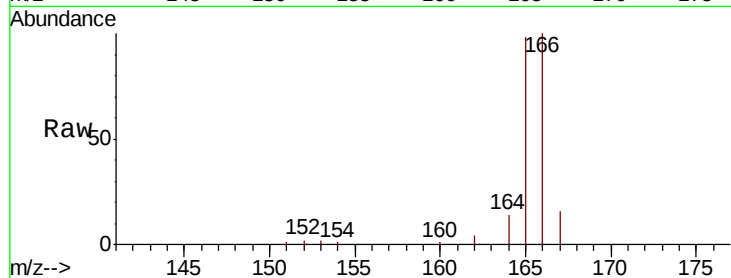
166 100

165 98.3 81.4 122.0

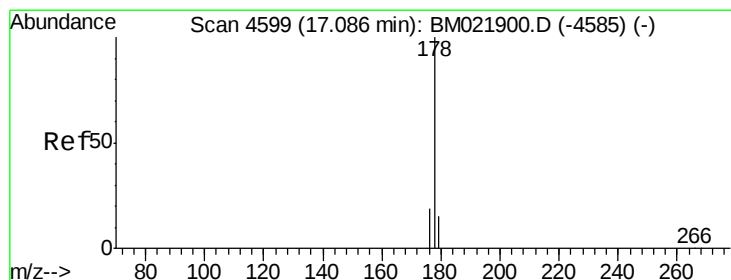
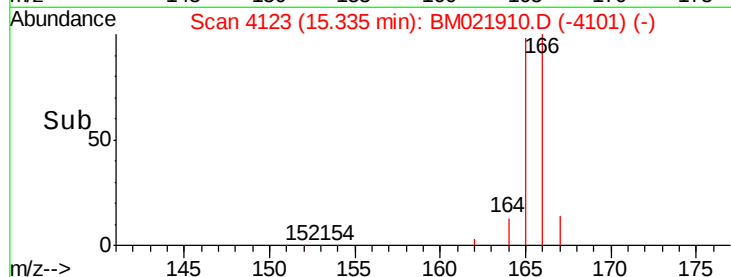
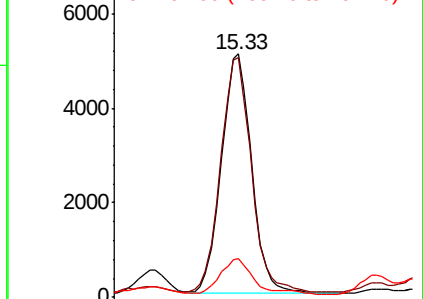
167 16.1 13.7 20.5

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Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E



#12

Phenanthrene

Concen: 4.763 ng/ul m

RT: 17.07 min Scan# 4595

Delta R.T. -0.01 min

Lab File: BM021910.D

Acq: 07 Aug 2019 23:45

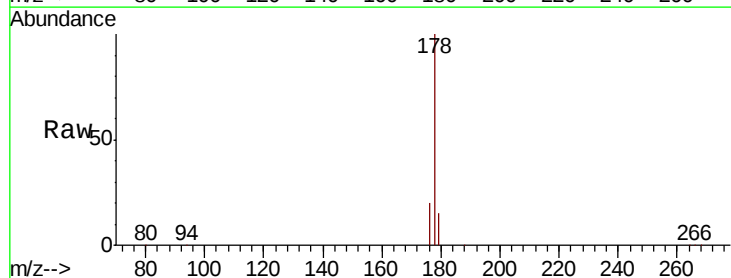
Tgt Ion:178 Resp: 69949

Ion Ratio Lower Upper

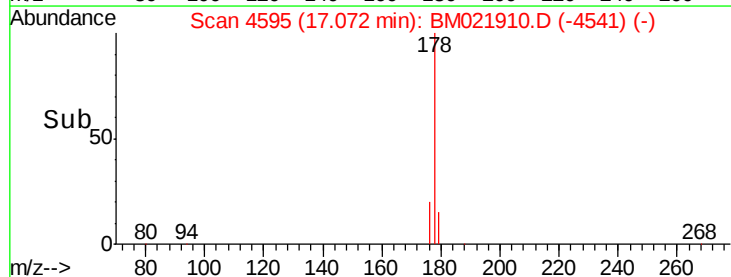
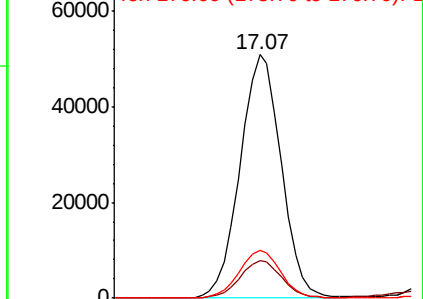
178 100

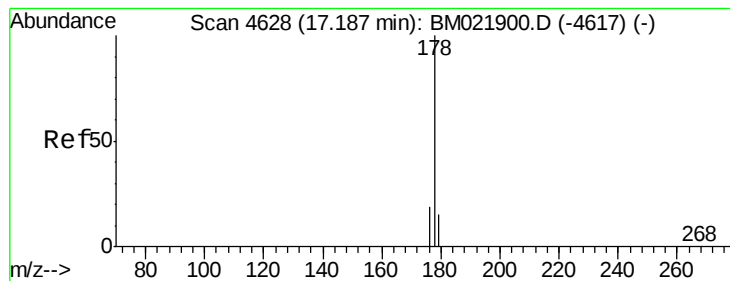
179 15.4 14.2 21.2

176 19.7 16.8 25.2



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E





#13

Anthracene

Concen: 1.785 ng/ul m

RT: 17.17 min Scan# 4622

Delta R.T. -0.02 min

Lab File: BM021910.D

Acq: 07 Aug 2019 23:45

Instrument :

BNA\_M

ClientSampleId :

BENY6

Tot Ion:178 Resp: 22365

Ion Ratio Lower Upper

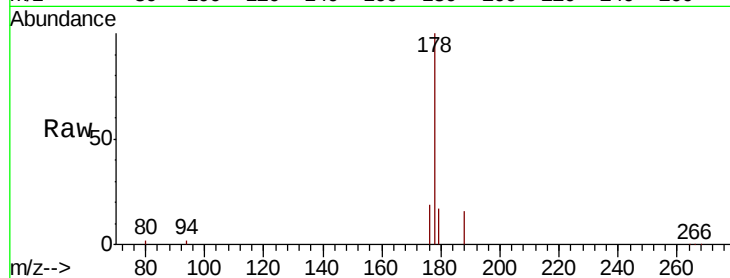
178 100

179 17.0 15.5 23.3

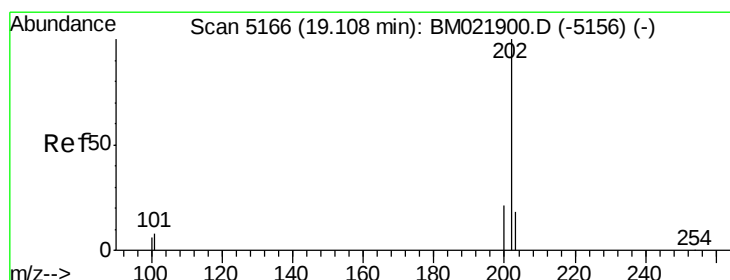
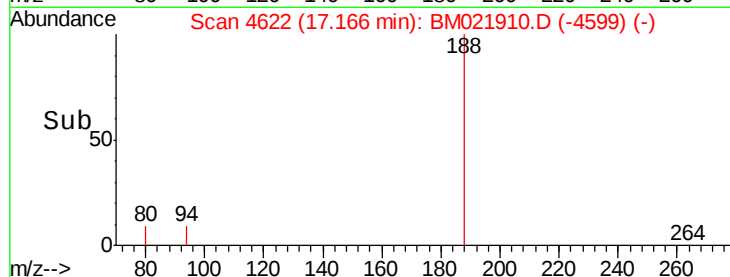
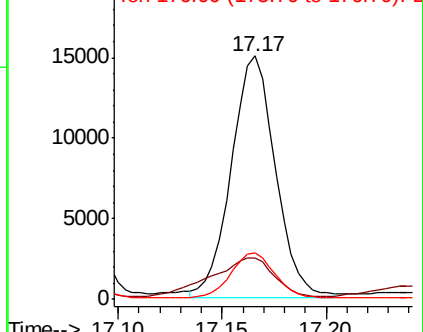
176 19.3 16.6 25.0

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Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 179.00 (178.70 to 179.70): E  
Ion 176.00 (175.70 to 176.70): E



#15

Fluoranthene

Concen: 3.797 ng/ul m

RT: 19.10 min Scan# 5163

Delta R.T. -0.01 min

Lab File: BM021910.D

Acq: 07 Aug 2019 23:45

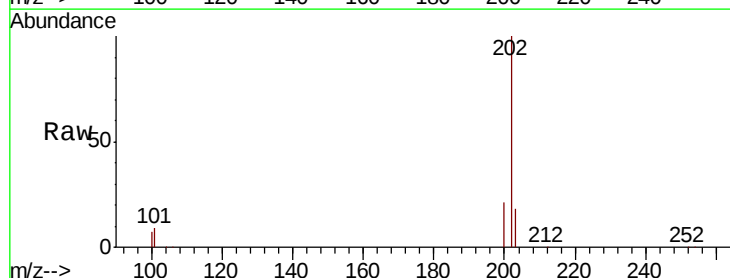
Tgt Ion:202 Resp: 74690

Ion Ratio Lower Upper

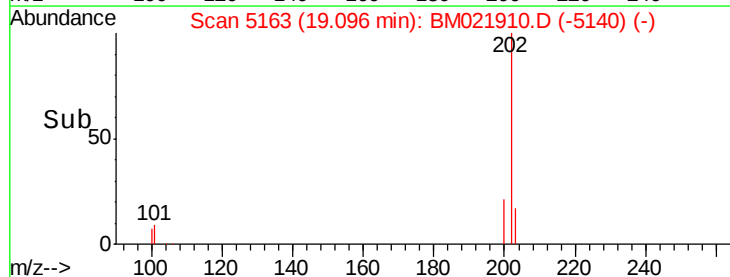
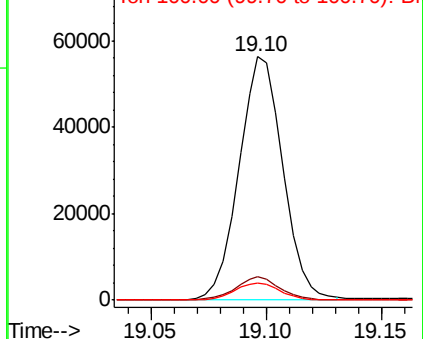
202 100

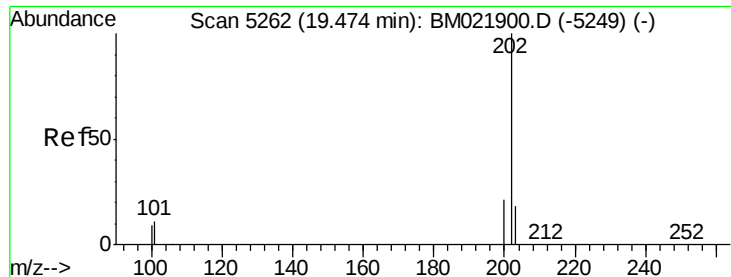
101 9.4 0.0 30.2

100 7.2 0.0 28.1



Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B





#17

Pvrene

Concen: 3.148 ng/ul

RT: 19.46 min Scan# 5259

Delta R.T. -0.01 min

Lab File: BM021910.D

Acq: 07 Aug 2019 23:45

Instrument :

BNA\_M

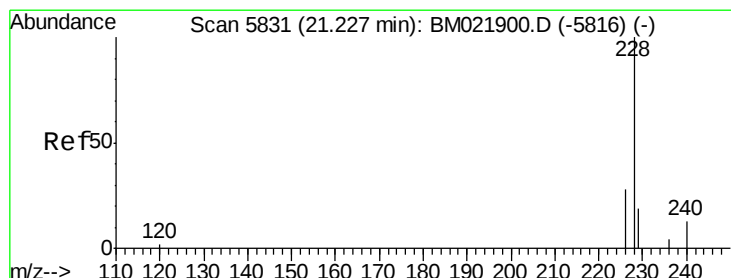
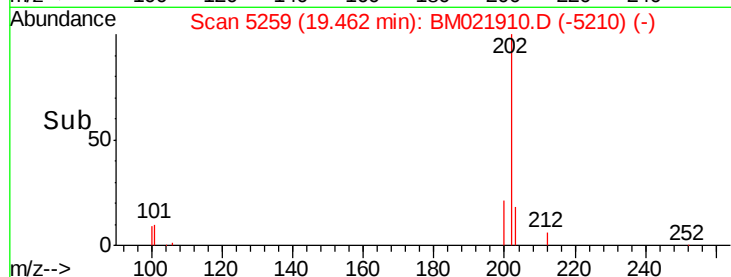
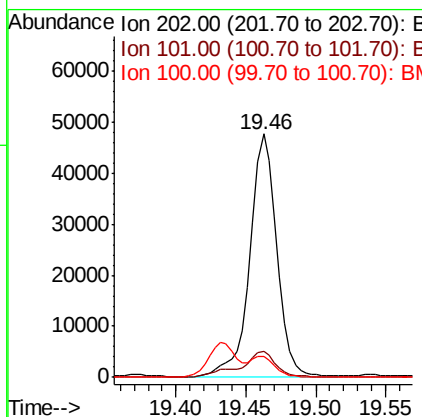
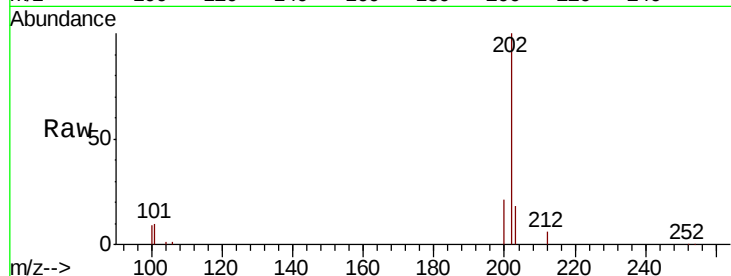
ClientSampleId :

BENY6

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 202   | Resp: | 63205 |
| Ion Ratio | Lower | Upper |       |
| 202       | 100   |       |       |
| 101       | 10.5  | 8.3   | 12.5  |
| 100       | 8.8   | 7.2   | 10.8  |

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#18

Benzo(a)anthracene

Concen: 2.190 ng/ul m

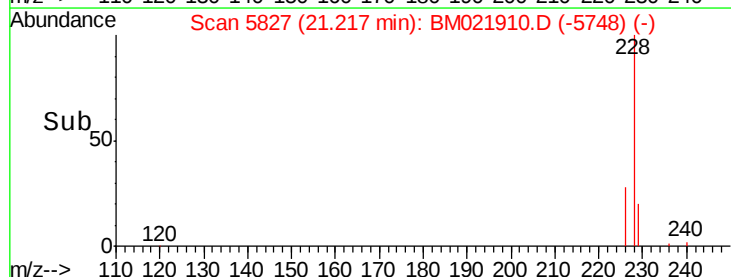
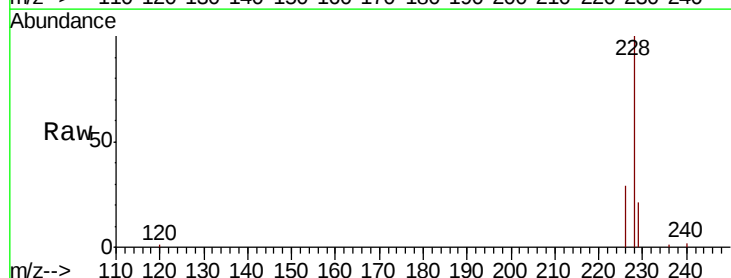
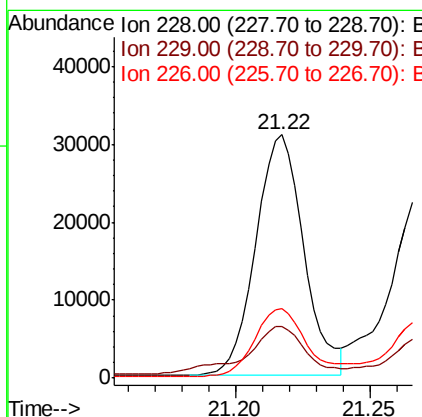
RT: 21.22 min Scan# 5827

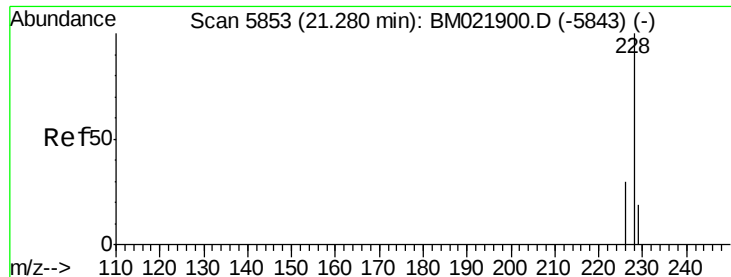
Delta R.T. -0.01 min

Lab File: BM021910.D

Acq: 07 Aug 2019 23:45

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 38280 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 229       | 21.3  | 17.2  | 25.8  |
| 226       | 28.6  | 22.6  | 34.0  |





#19

Chrysene

Concen: 1.498 ng/ul

RT: 21.27 min Scan# 5848

Delta R.T. -0.01 min

Lab File: BM021910.D

Acq: 07 Aug 2019 23:45

Instrument :

BNA\_M

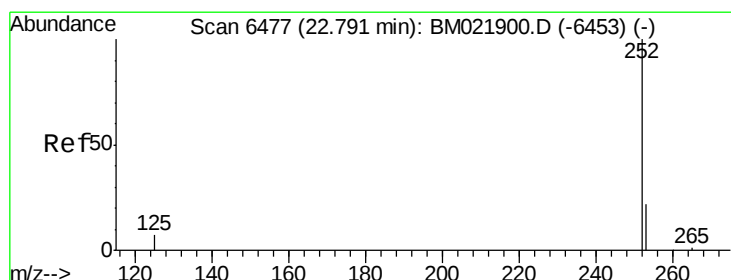
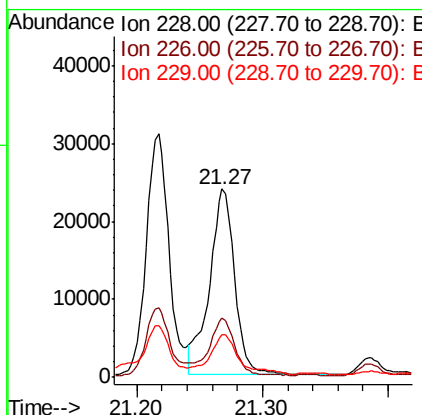
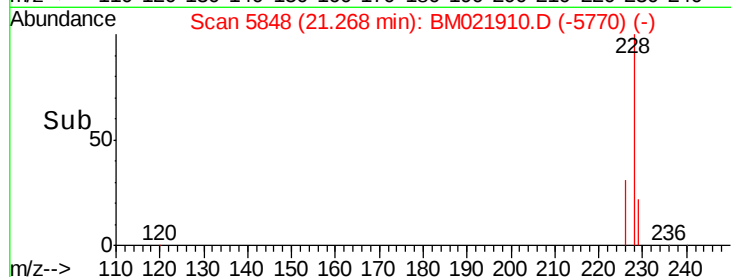
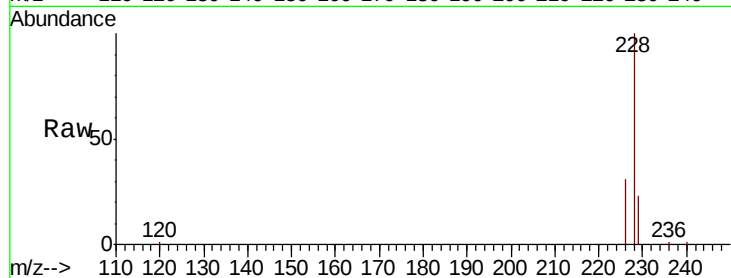
ClientSampleId :

BENY6

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 228   | Resp: | 33662 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 31.4  | 24.9  | 37.3  |
| 229       | 22.9  | 16.6  | 25.0  |

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#21

Benzo(b)fluoranthene

Concen: 2.183 ng/ul m

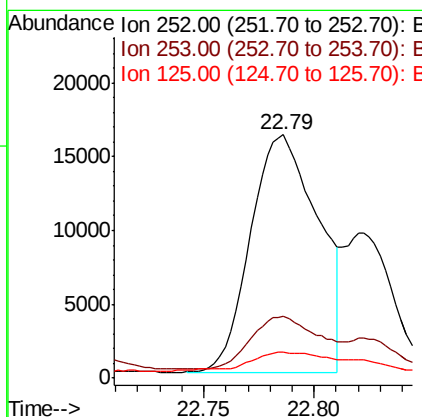
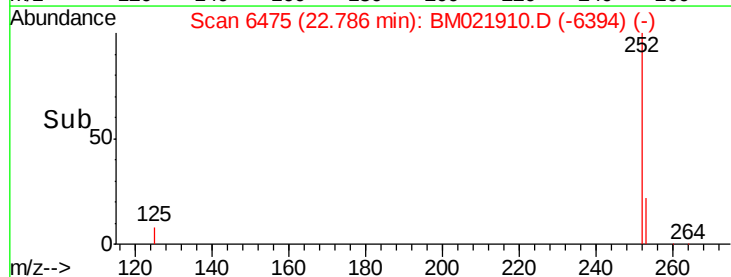
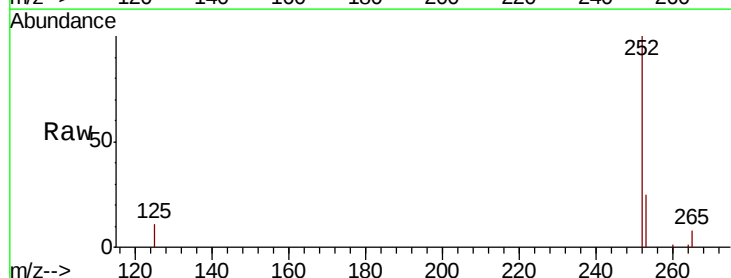
RT: 22.79 min Scan# 6475

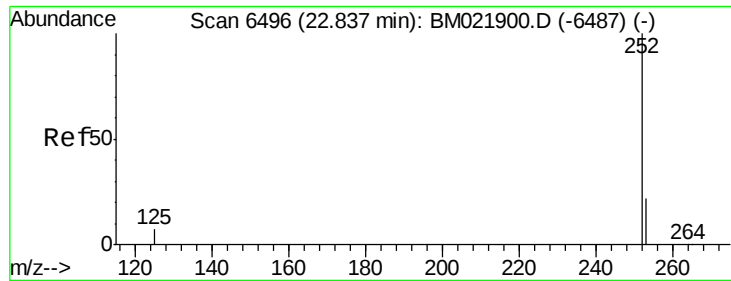
Delta R.T. -0.00 min

Lab File: BM021910.D

Acq: 07 Aug 2019 23:45

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 34497 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 25.2  | 0.0   | 67.4  |
| 125       | 10.5  | 0.0   | 31.0  |





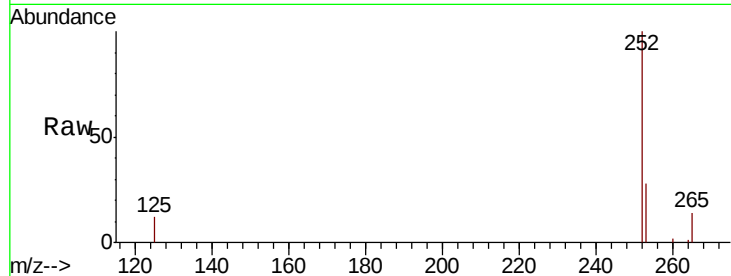
#22  
Benzo(k)fluoranthene  
Concen: 0.827 ng/ul m  
RT: 22.82 min Scan# 6490  
Delta R.T. -0.01 min  
Lab File: BM021910.D  
Acq: 07 Aug 2019 23:45

Instrument :  
BNA\_M  
ClientSampleId :  
BENY6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.7  | 27.0  | 40.4  |
| 125     | 12.3  | 12.2  | 18.2  |

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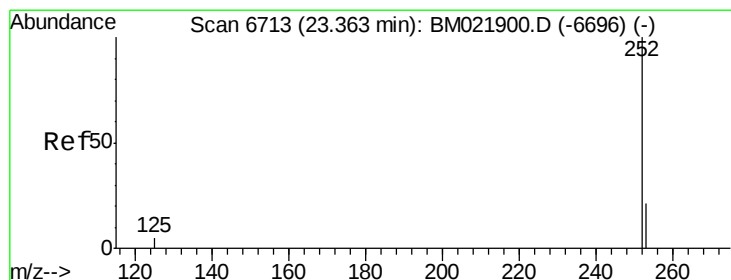
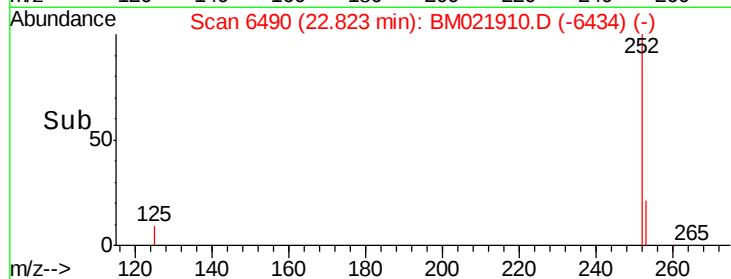
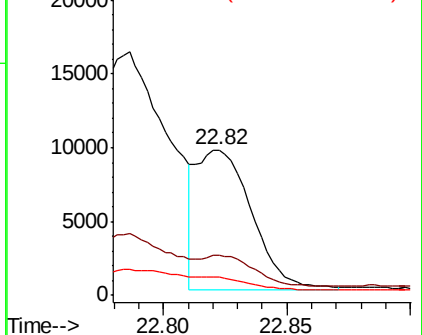


Abundance

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: 1.603 ng/ul  
RT: 23.35 min Scan# 6707  
Delta R.T. -0.01 min  
Lab File: BM021910.D  
Acq: 07 Aug 2019 23:45

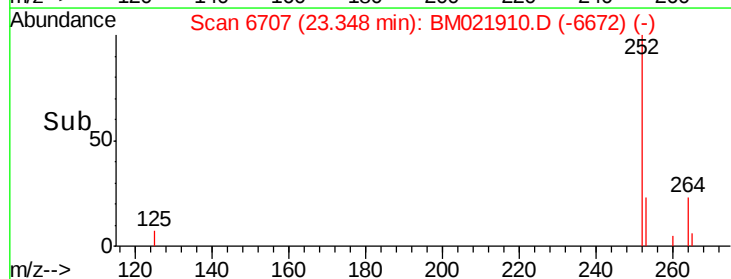
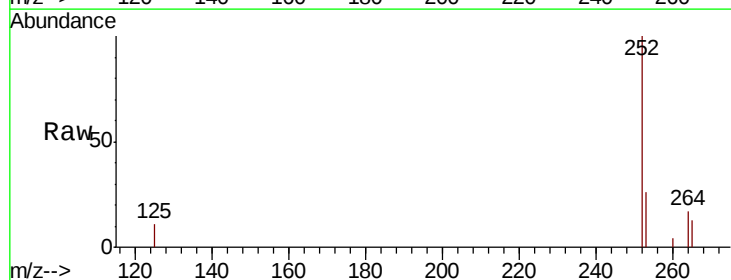
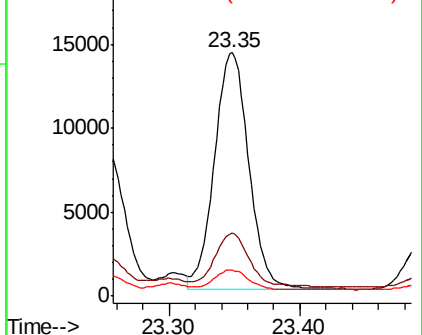
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 25.7  | 31.7  | 47.5# |
| 125     | 10.9  | 14.6  | 21.8# |

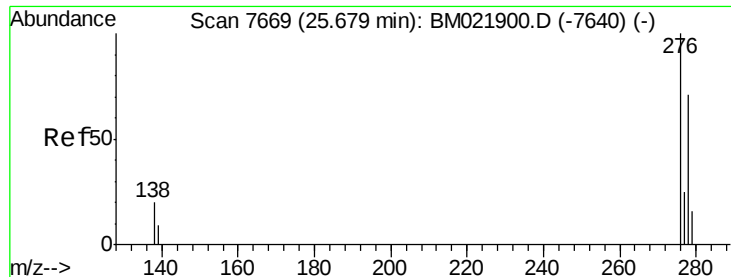
Abundance

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





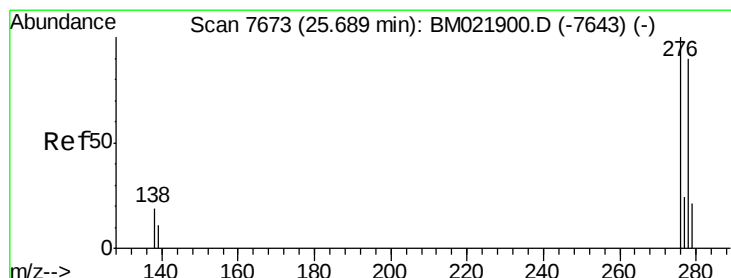
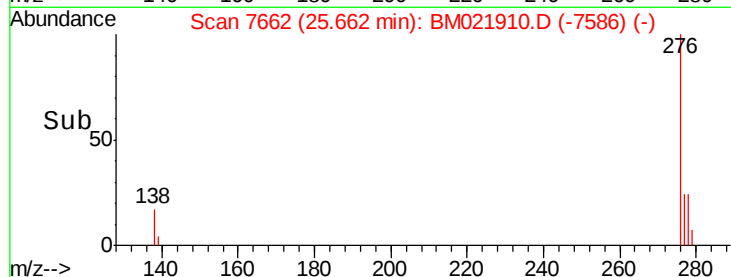
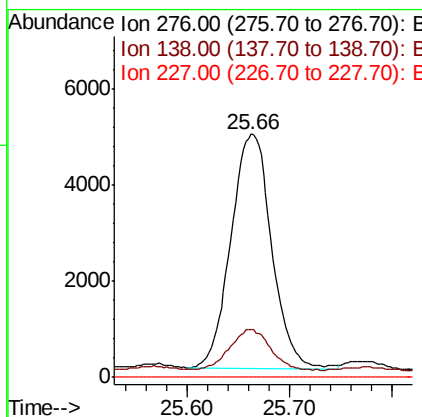
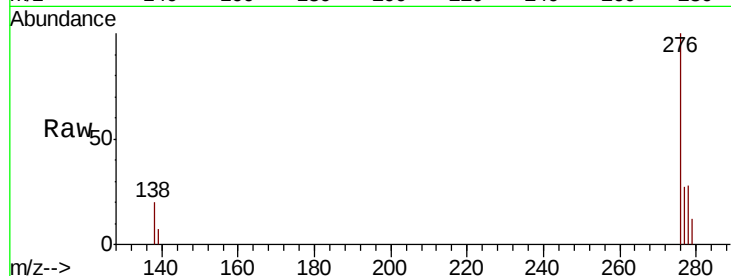
#24  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.704 ng/u1  
 RT: 25.66 min Scan# 7662  
 Delta R.T. -0.02 min  
 Lab File: BM021910.D  
 Acq: 07 Aug 2019 23:45

Instrument :  
 BNA\_M  
 ClientSampleId :  
 BENY6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.3  | 15.1  | 22.7  |
| 227     | 0.0   | 0.0   | 0.0   |

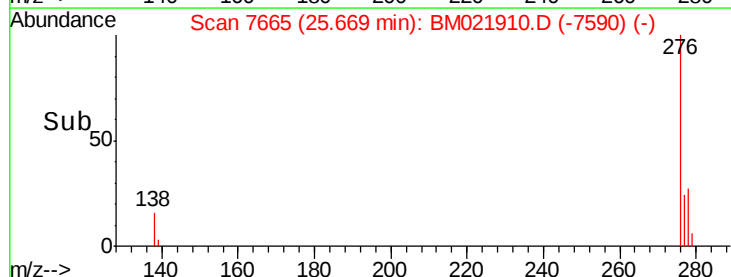
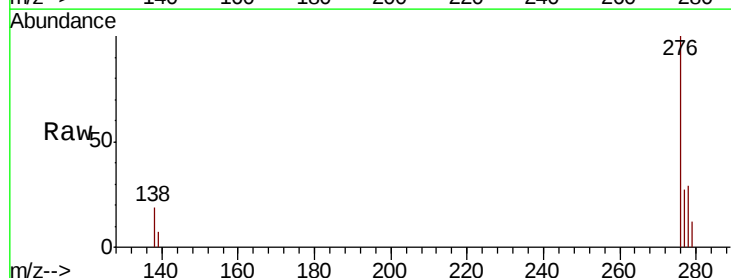
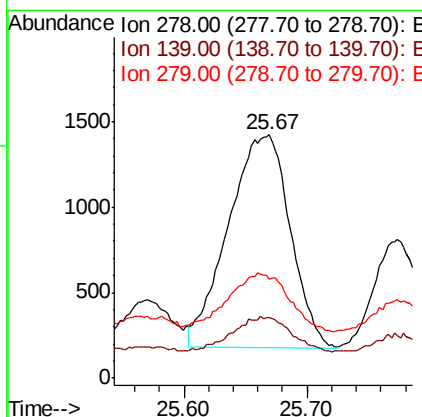
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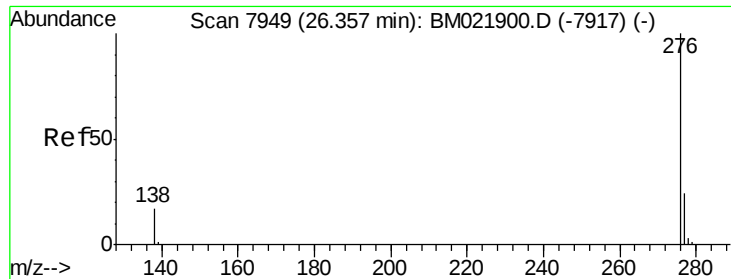
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#25  
 Dibenzo(a,h)anthracene  
 Concen: 0.280 ng/u1  
 RT: 25.67 min Scan# 7665  
 Delta R.T. -0.02 min  
 Lab File: BM021910.D  
 Acq: 07 Aug 2019 23:45

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 24.9  | 14.2  | 21.2# |
| 279     | 40.5  | 28.3  | 42.5  |





#26

Benzo(a,h,i)perylene

Concen: 0.574 ng/ul

RT: 26.34 min Scan# 7943

Delta R.T. -0.01 min

Lab File: BM021910.D

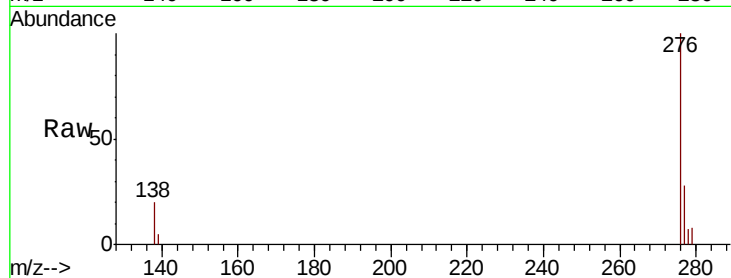
Acq: 07 Aug 2019 23:45

Instrument :

BNA\_M

ClientSampleId :

BENY6



|           |       |       |      |
|-----------|-------|-------|------|
| Tot Ion:  | 276   | Resp: | 9911 |
| Ion Ratio | Lower | Upper |      |
| 276       | 100   |       |      |
| 138       | 20.3  | 15.5  | 23.3 |
| 277       | 27.9  | 21.4  | 32.2 |

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