

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061119\  
 Data File : BM020867.D  
 Acq On : 11 Jun 2019 10:43  
 Operator : HP/JU  
 Sample : K3017-17DL 5X  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 A51F0DL

Manual Integrations  
 APPROVED

mohammad  
 6/12/2019 8:31:49 AM

Quant Time: Jun 11 17:00:51 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM060619MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Sun Jun 09 01:02:58 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.81  | 152  | 321212   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.60 | 136  | 1236565  | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.45 | 164  | 679875   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.19 | 188  | 1470482  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.37 | 240  | 1376330  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.66 | 264  | 1608403  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |        |      |       |      |
|--------------------------------|-------|-----|--------|------|-------|------|
| 3) 1,4-Dioxane-d8              | 3.31  | 96  | 6681   | 0.99 | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.97  | 99  | 104161 | 4.24 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.15  | 67  | 68668  | 4.66 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.34  | 132 | 92146  | 4.71 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.51  | 113 | 84279  | 4.26 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.97  | 128 | 41210  | 4.88 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.69  | 143 | 42975  | 4.95 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.22 | 165 | 83533  | 4.61 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.74 | 131 | 47092  | 2.16 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.86 | 166 | 261797 | 5.21 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.14 | 160 | 305105 | 4.78 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.65 | 143 | 22423  | 2.60 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.44 | 176 | 216229 | 5.06 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.57 | 200 | 7157   | 0.95 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.29 | 188 | 313342 | 4.88 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.58 | 212 | 333990 | 5.02 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.51 | 264 | 347988 | 4.76 | ng/ul | 0.00 |

## Target Compounds

|                            |       |     |         |        | Ovalue    |
|----------------------------|-------|-----|---------|--------|-----------|
| 44) Dimethylphthalate      | 13.90 | 163 | 88504   | 1.758  | ng/ul 98  |
| 69) Phenanthrene           | 17.23 | 178 | 606078  | 8.190  | ng/ul 100 |
| 74) Carbazole              | 17.60 | 167 | 107226  | 1.625  | ng/ul 98  |
| 76) Fluoranthene           | 19.25 | 202 | 2267162 | 26.733 | ng/ul 99  |
| 79) Pyrene                 | 19.62 | 202 | 1767515 | 20.804 | ng/ul 97  |
| 82) Benzo(a)anthracene     | 21.36 | 228 | 665380  | 7.750  | ng/ul 97  |
| 84) Chrysene               | 21.41 | 228 | 1145512 | 14.379 | ng/ul 98  |
| 87) Benzo(b)fluoranthene   | 22.97 | 252 | 1885323 | 20.150 | ng/ul 99  |
| 88) Benzo(k)fluoranthene   | 23.01 | 252 | 526231m | 5.884  | ng/ul     |
| 90) Benzo(a)pyrene         | 23.56 | 252 | 964795  | 10.838 | ng/ul 98  |
| 91) Indeno(1,2,3-cd)pyrene | 25.97 | 276 | 969896  | 9.225  | ng/ul# 95 |
| 92) Dibenzo(a,h)anthracene | 25.97 | 278 | 214222  | 2.405  | ng/ul# 90 |
| 93) Benzo(g,h,i)perylene   | 26.68 | 276 | 868312  | 10.180 | ng/ul 97  |

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

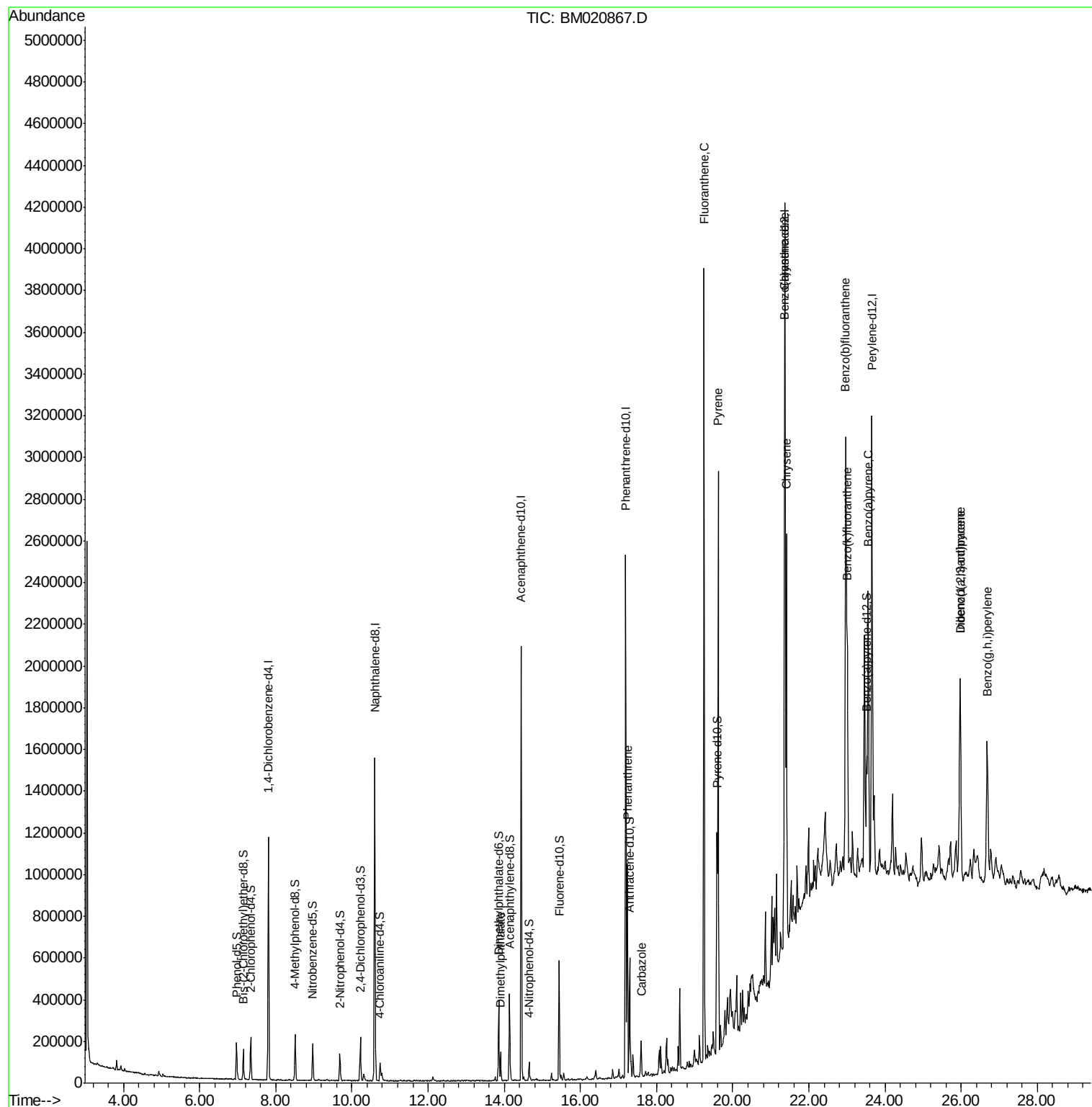
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM061119\  
Data File : BM020867.D  
Acq On : 11 Jun 2019 10:43  
Operator : HP/JU  
Sample : K3017-17DL 5X  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

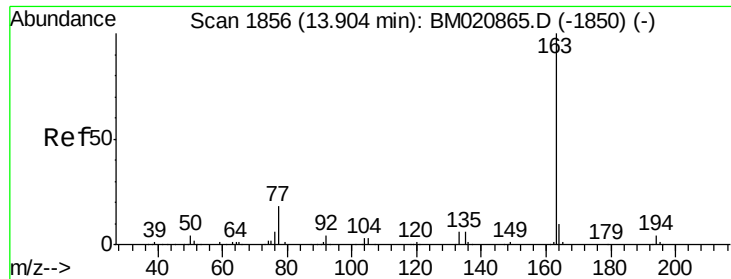
Instrument :  
BNA\_M  
ClientSampleId :  
A51F0DL

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Quant Time: Jun 11 17:00:51 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM060619MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Sun Jun 09 01:02:58 2019  
Response via : Initial Calibration





#44

Dimethylphthalate

Concen: 1.758 ng/ul

RT: 13.90 min Scan# 1856

Delta R.T. -0.01 min

Lab File: BM020867.D

Acq: 11 Jun 2019 10:43

Instrument :

BNA\_M

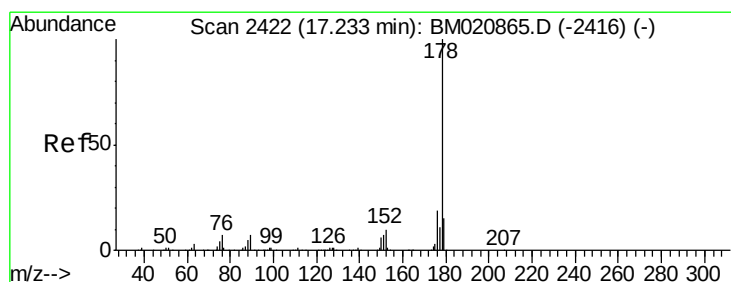
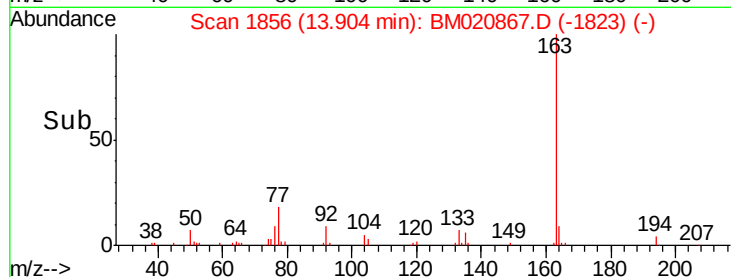
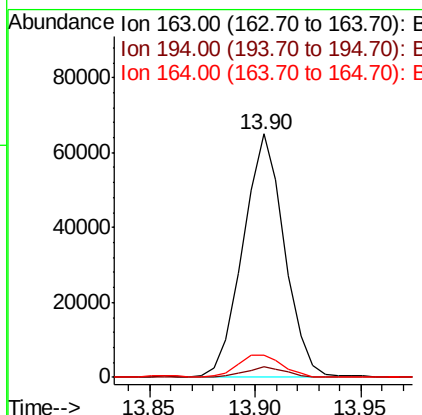
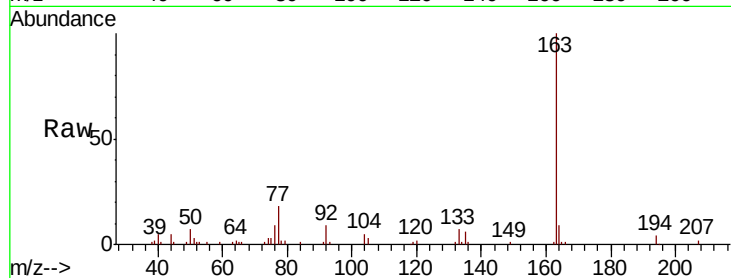
ClientSampleId :

A51F0DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 163   | Resp: | 88504 |
| Ion Ratio | Lower | Upper |       |
| 163       | 100   |       |       |
| 194       | 4.3   | 3.2   | 4.8   |
| 164       | 9.3   | 8.0   | 12.0  |

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#69

Phenanthrene

Concen: 8.190 ng/ul

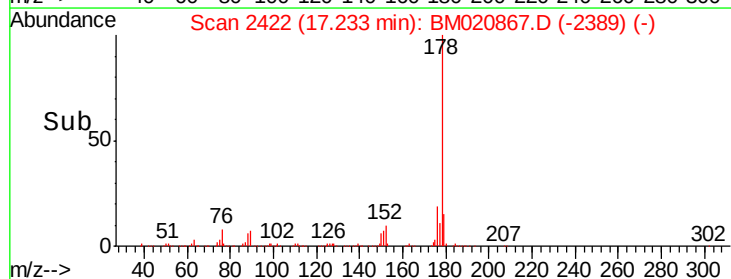
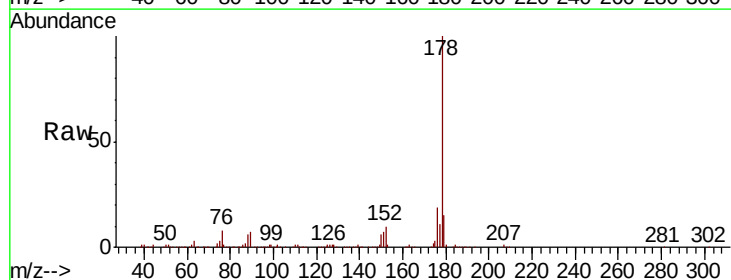
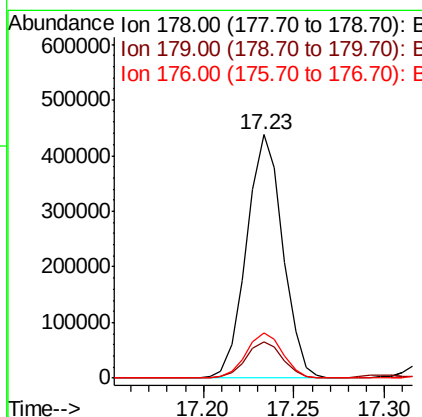
RT: 17.23 min Scan# 2422

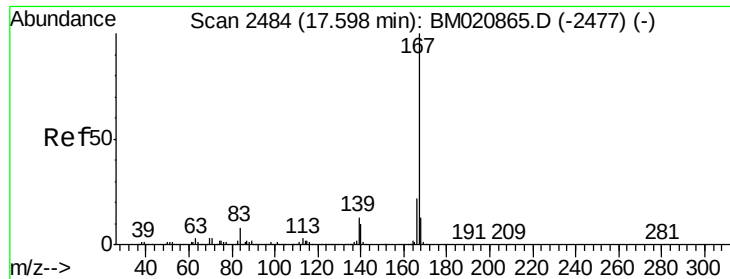
Delta R.T. -0.01 min

Lab File: BM020867.D

Acq: 11 Jun 2019 10:43

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 178   | Resp: | 606078 |
| Ion Ratio | Lower | Upper |        |
| 178       | 100   |       |        |
| 179       | 15.1  | 12.3  | 18.5   |
| 176       | 18.5  | 14.8  | 22.2   |





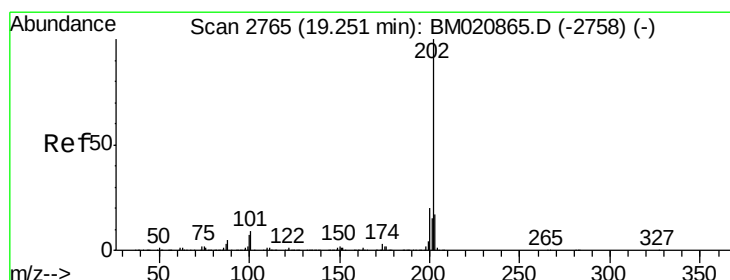
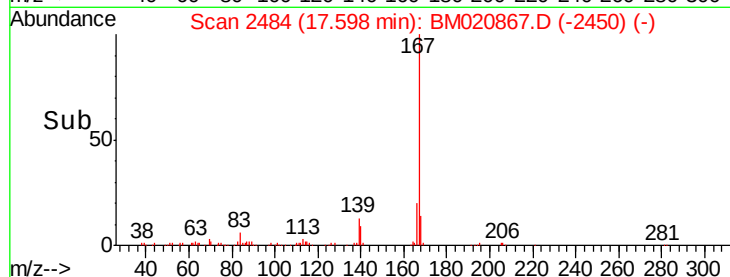
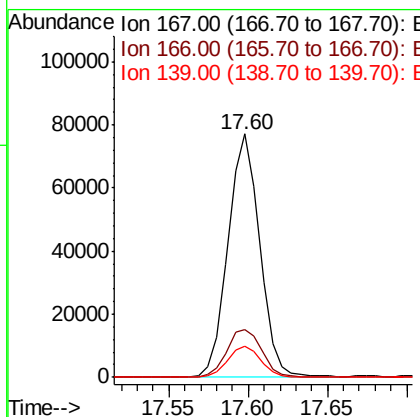
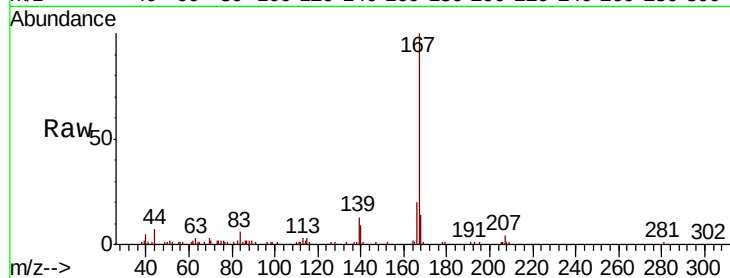
#74  
 Carbazole  
 Concen: 1.625 ng/ul  
 RT: 17.60 min Scan# 2484  
 Delta R.T. 0.00 min  
 Lab File: BM020867.D  
 Acq: 11 Jun 2019 10:43

Instrument :  
 BNA\_M  
 ClientSampled :  
 A51F0DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 167     | 100   |       |       |
| 166     | 19.9  | 17.0  | 25.6  |
| 139     | 12.7  | 10.5  | 15.7  |

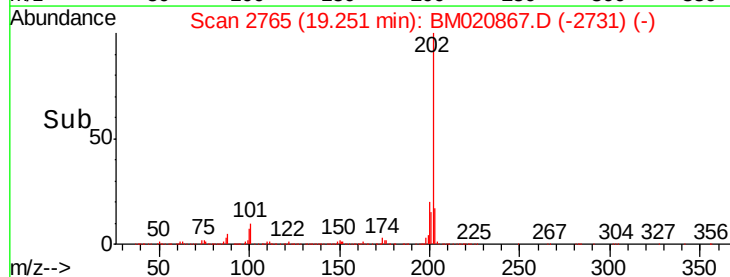
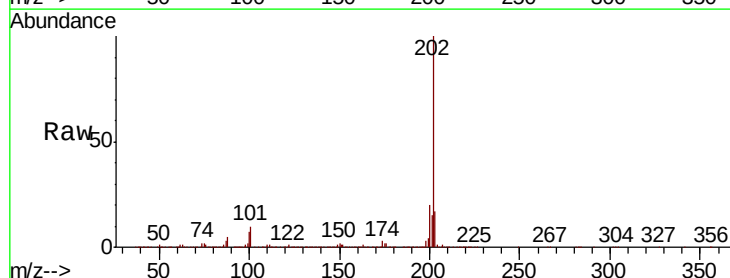
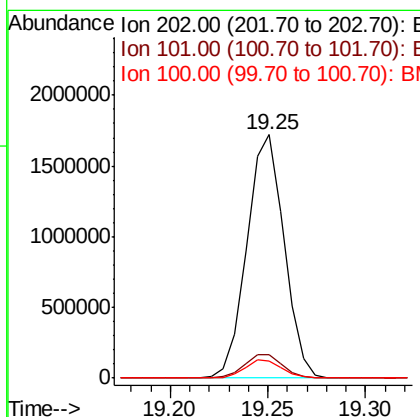
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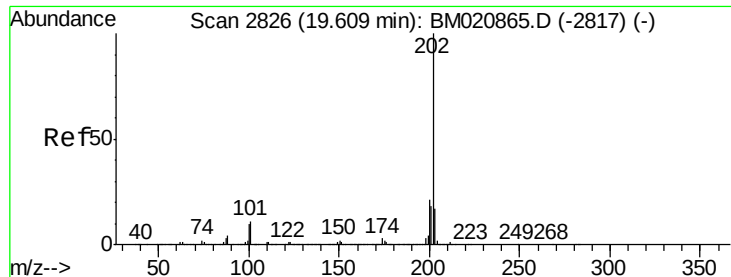
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#76  
 Fluoranthene  
 Concen: 26.733 ng/ul  
 RT: 19.25 min Scan# 2765  
 Delta R.T. 0.00 min  
 Lab File: BM020867.D  
 Acq: 11 Jun 2019 10:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.6   | 7.9   | 11.9  |
| 100     | 7.2   | 6.2   | 9.4   |





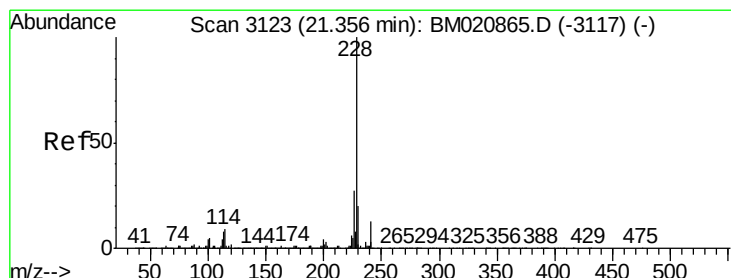
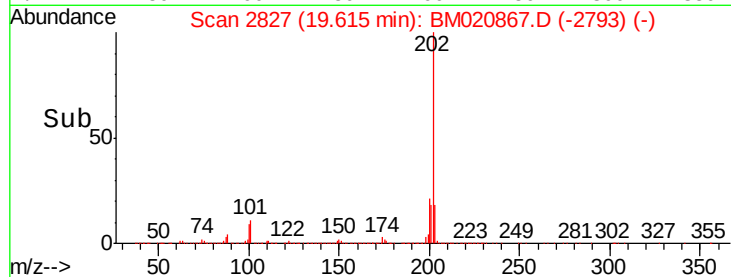
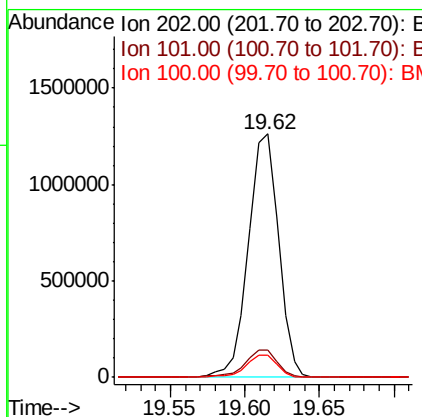
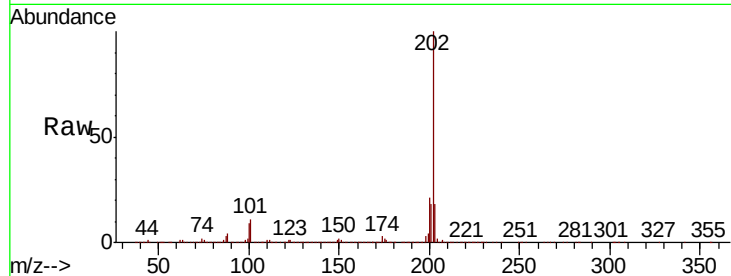
#79  
Pvrene  
Concen: 20.804 ng/ul  
RT: 19.62 min Scan# 2827  
Delta R.T. 0.00 min  
Lab File: BM020867.D  
Acq: 11 Jun 2019 10:43

Instrument :  
BNA\_M  
ClientSampleId :  
A51F0DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 11.1  | 9.8   | 14.6  |
| 100     | 9.1   | 8.0   | 12.0  |

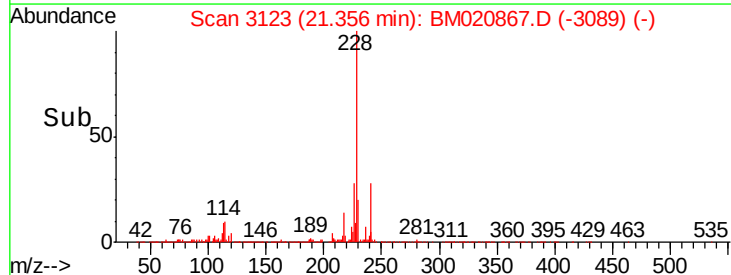
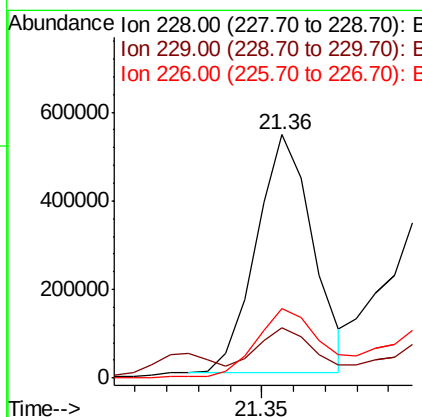
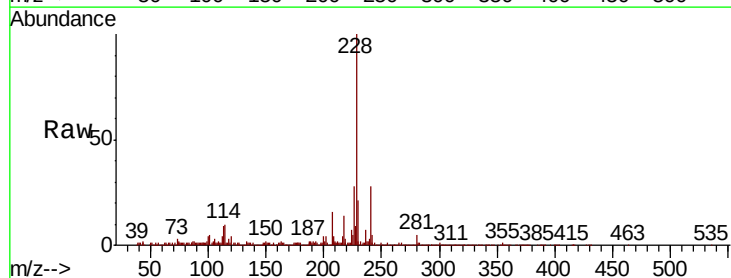
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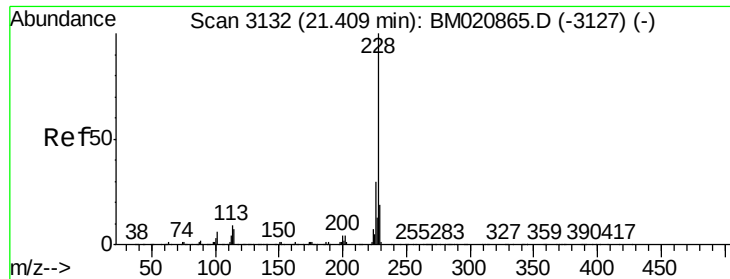
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#82  
Benzo(a)anthracene  
Concen: 7.750 ng/ul  
RT: 21.36 min Scan# 3123  
Delta R.T. 0.00 min  
Lab File: BM020867.D  
Acq: 11 Jun 2019 10:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.6  | 15.6  | 23.4  |
| 226     | 28.4  | 21.4  | 32.2  |





#84

Chrysene

Concen: 14.379 ng/ul

RT: 21.41 min Scan# 3132

Delta R.T. 0.00 min

Lab File: BM020867.D

Acq: 11 Jun 2019 10:43

Instrument :

BNA\_M

ClientSampleID :

A51F0DL

Tot Ion:228 Resp: 1145512

Ion Ratio Lower Upper

228 100

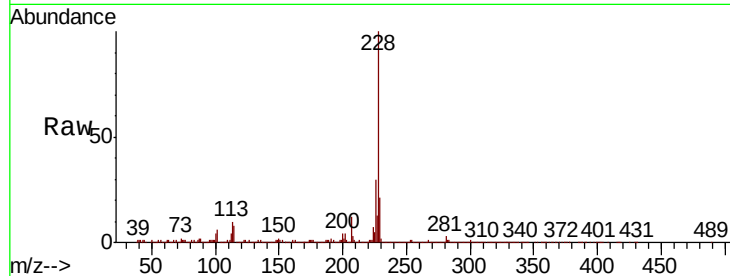
226 29.8 24.4 36.6

229 21.5 16.2 24.2

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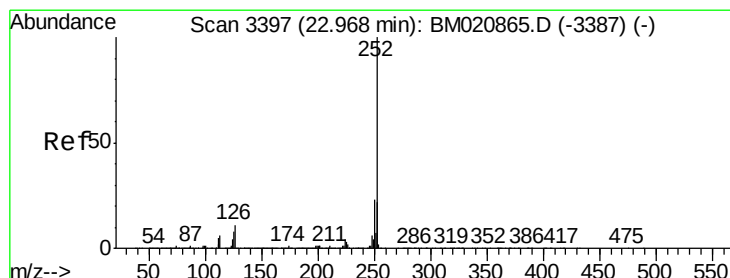
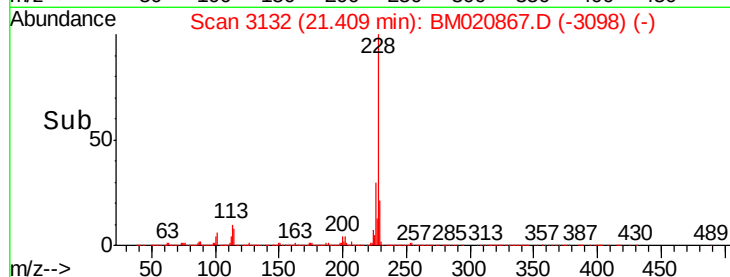
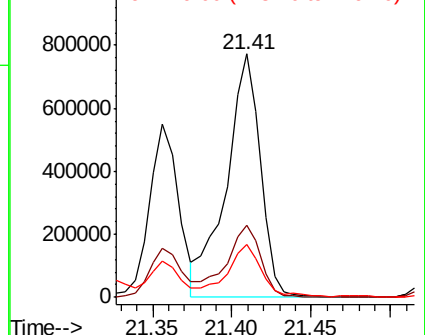


Abundance

Ion 228.00 (227.70 to 228.70): E

Ion 226.00 (225.70 to 226.70): E

Ion 229.00 (228.70 to 229.70): E



#87

Benzo(b)fluoranthene

Concen: 20.150 ng/ul

RT: 22.97 min Scan# 3398

Delta R.T. 0.01 min

Lab File: BM020867.D

Acq: 11 Jun 2019 10:43

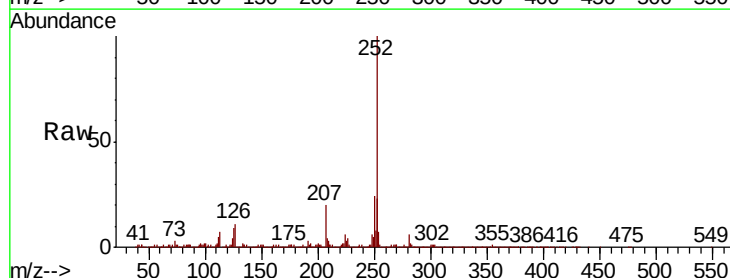
Tgt Ion:252 Resp: 1885323

Ion Ratio Lower Upper

252 100

253 22.7 17.6 26.4

125 8.9 7.3 10.9

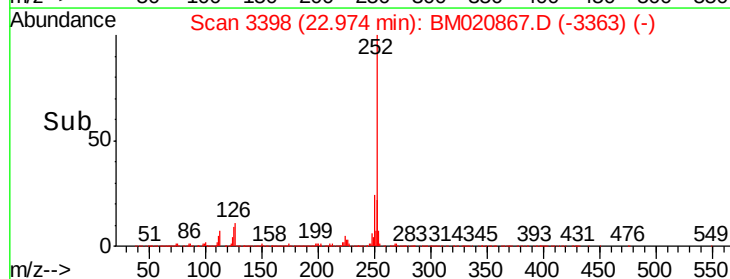
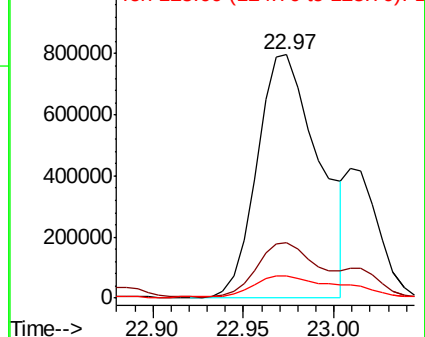


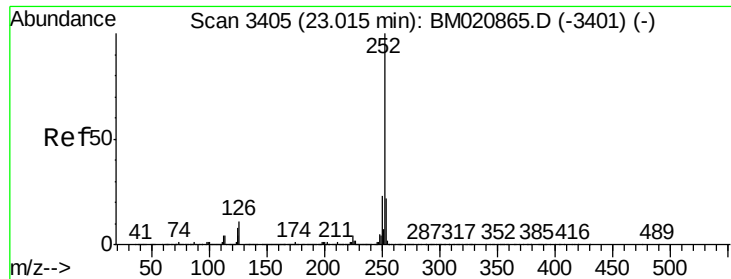
Abundance

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





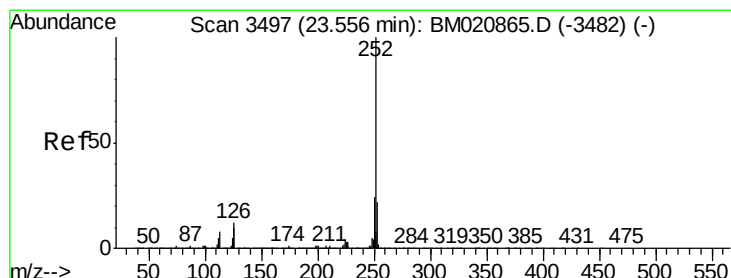
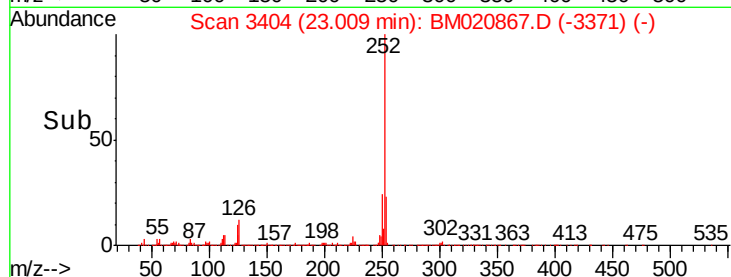
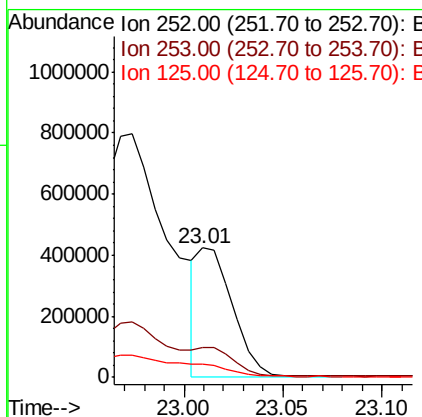
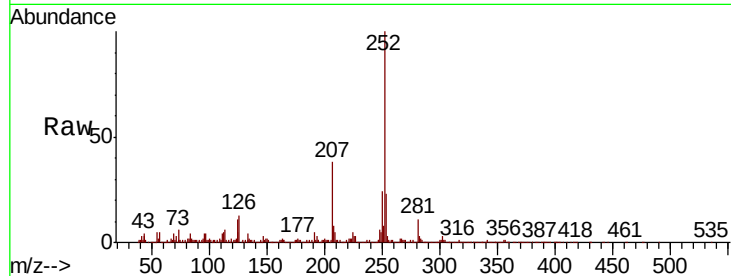
#88  
Benzo(k)fluoranthene  
Concen: 5.884 ng/ul m  
RT: 23.01 min Scan# 3404  
Delta R.T. -0.01 min  
Lab File: BM020867.D  
Acq: 11 Jun 2019 10:43

Instrument :  
BNA\_M  
ClientSampleId :  
A51F0DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 23.3  | 17.6  | 26.4  |
| 125     | 10.5  | 7.3   | 10.9  |

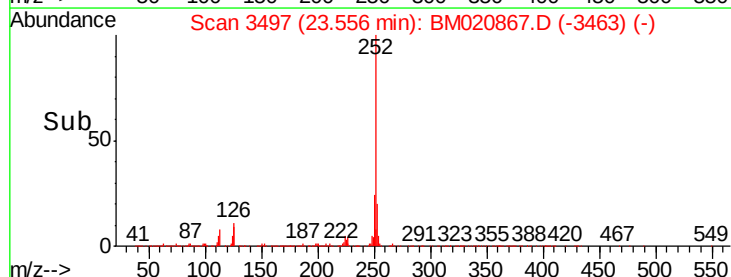
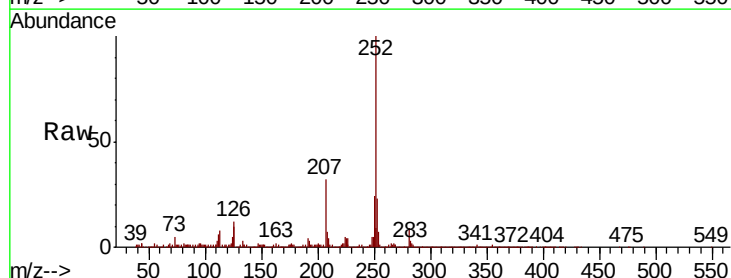
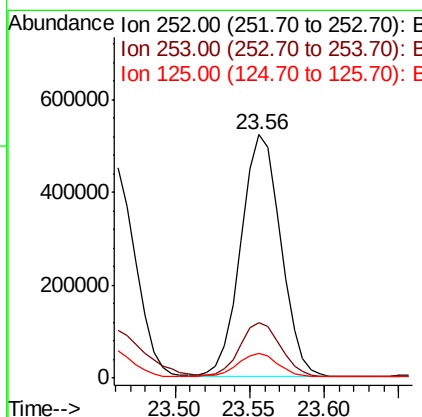
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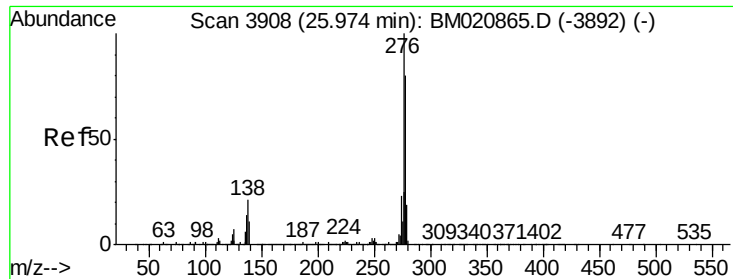
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#90  
Benzo(a)pyrene  
Concen: 10.838 ng/ul  
RT: 23.56 min Scan# 3497  
Delta R.T. 0.00 min  
Lab File: BM020867.D  
Acq: 11 Jun 2019 10:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.8  | 17.0  | 25.6  |
| 125     | 9.9   | 8.2   | 12.4  |





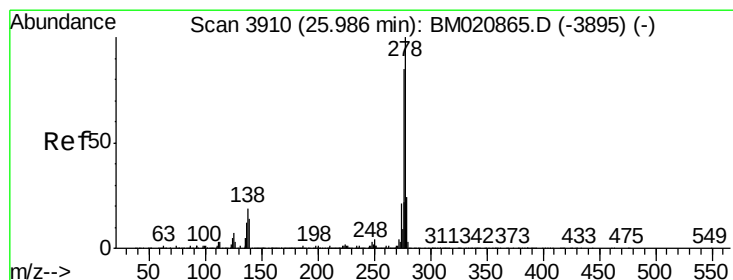
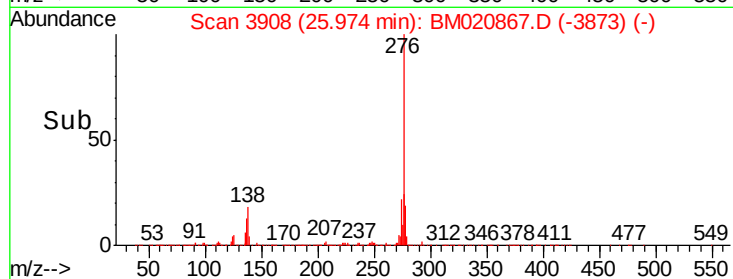
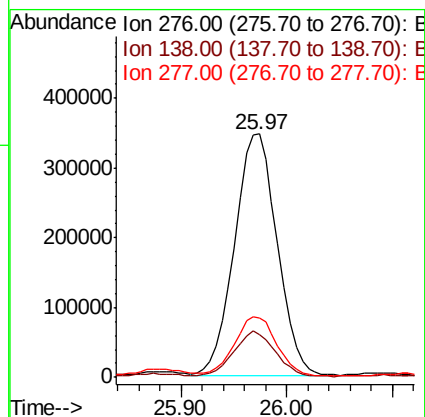
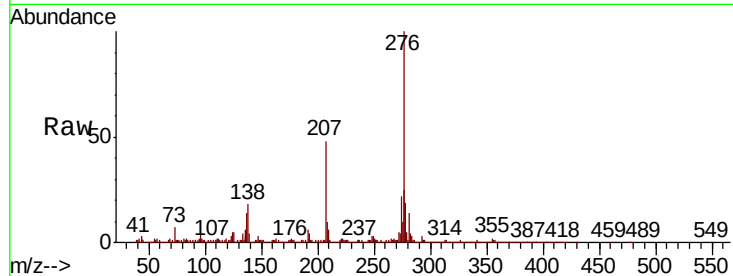
#91  
Indeno(1,2,3-cd)pyrene  
Concen: 9.225 ng/ul  
RT: 25.97 min Scan# 3908  
Delta R.T. 0.01 min  
Lab File: BM020867.D  
Acq: 11 Jun 2019 10:43

Instrument :  
BNA\_M  
ClientSampleId :  
A51F0DL

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.8  | 17.8  | 26.8# |
| 277     | 24.6  | 20.0  | 30.0  |

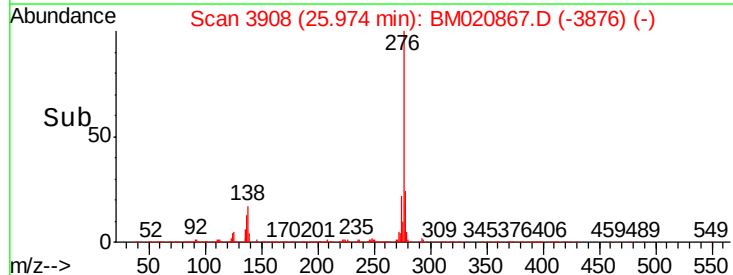
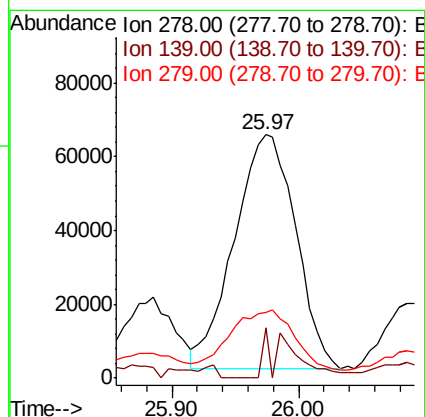
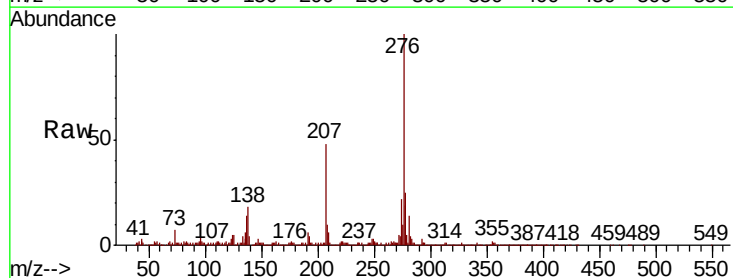
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6/12/2019 8:31:49 AM

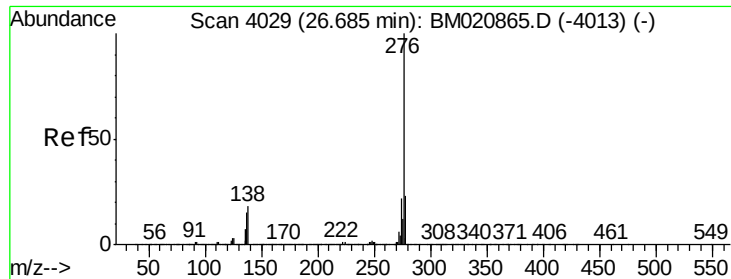


#92  
Dibenzo(a,h)anthracene  
Concen: 2.405 ng/ul  
RT: 25.97 min Scan# 3908  
Delta R.T. -0.01 min  
Lab File: BM020867.D  
Acq: 11 Jun 2019 10:43

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 20.8  | 11.6  | 17.4# |
| 279     | 26.8  | 18.6  | 28.0  |







#93

Benzo(a,h,i)perylene

Concen: 10.180 ng/ul

RT: 26.68 min Scan# 4028

Delta R.T. -0.01 min

Lab File: BM020867.D

Acq: 11 Jun 2019 10:43

Instrument :

BNA\_M

ClientSampleId :

A51F0DL

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 276   | Resp: | 868312 |
| Ion Ratio | Lower | Upper |        |
| 276       | 100   |       |        |
| 138       | 18.1  | 16.6  | 25.0   |
| 277       | 24.6  | 19.6  | 29.4   |

Manual Integrations  
APPROVED

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6/12/2019 8:31:49 AM

