

Data File : BM024875.D  
Acq On : 14 Feb 2020 03:57  
Operator : CG/JU  
Sample : L1404-17  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
CB6W4

Quant Time: Feb 14 07:48:09 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM020620MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Feb 14 07:45:43 2020  
Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.39  | 152  | 451322   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.15 | 136  | 1628172  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.05 | 164  | 978709   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.80 | 188  | 2007451  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.01 | 240  | 1964592  | 20.00 | ng/ul | 0.00     |
| 86) Perylene-d12          | 23.11 | 264  | 2065712  | 20.00 | ng/ul | 0.00     |

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| System Monitoring Compounds    |       |     |         |       |       |      |
| 3) 1,4-Dioxane-d8              | 3.04  | 96  | 52716   | 5.62  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.59  | 99  | 873157  | 29.12 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.75  | 67  | 549782  | 32.47 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 6.94  | 132 | 744944  | 27.73 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.11  | 113 | 659051  | 26.05 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.60  | 128 | 928     | 0.08  | ng/ul | 0.07 |
| 22) 2-Nitrophenol-d4           | 9.25  | 143 | 434581  | 31.24 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 9.78  | 165 | 747275  | 26.63 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.29 | 131 | 879901  | 33.52 | ng/ul | 0.00 |
| 44) Dimethylphthalate-d6       | 13.47 | 166 | 2302431 | 31.17 | ng/ul | 0.00 |
| 47) Acenaphthylene-d8          | 13.73 | 160 | 2605222 | 30.20 | ng/ul | 0.00 |
| 52) 4-Nitrophenol-d4           | 14.38 | 143 | 2279    | 0.19  | ng/ul | 0.11 |
| 58) Fluorene-d10               | 15.04 | 176 | 1931433 | 29.52 | ng/ul | 0.00 |
| 63) 4,6-Dinitro-2-methylphenol | 15.18 | 200 | 355939  | 27.20 | ng/ul | 0.00 |
| 71) Anthracene-d10             | 16.90 | 188 | 2622051 | 28.61 | ng/ul | 0.00 |
| 79) Pyrene-d10                 | 19.20 | 212 | 3058270 | 31.12 | ng/ul | 0.00 |
| 90) Benzo(a)pyrene-d12         | 22.98 | 264 | 3268427 | 31.50 | ng/ul | 0.00 |

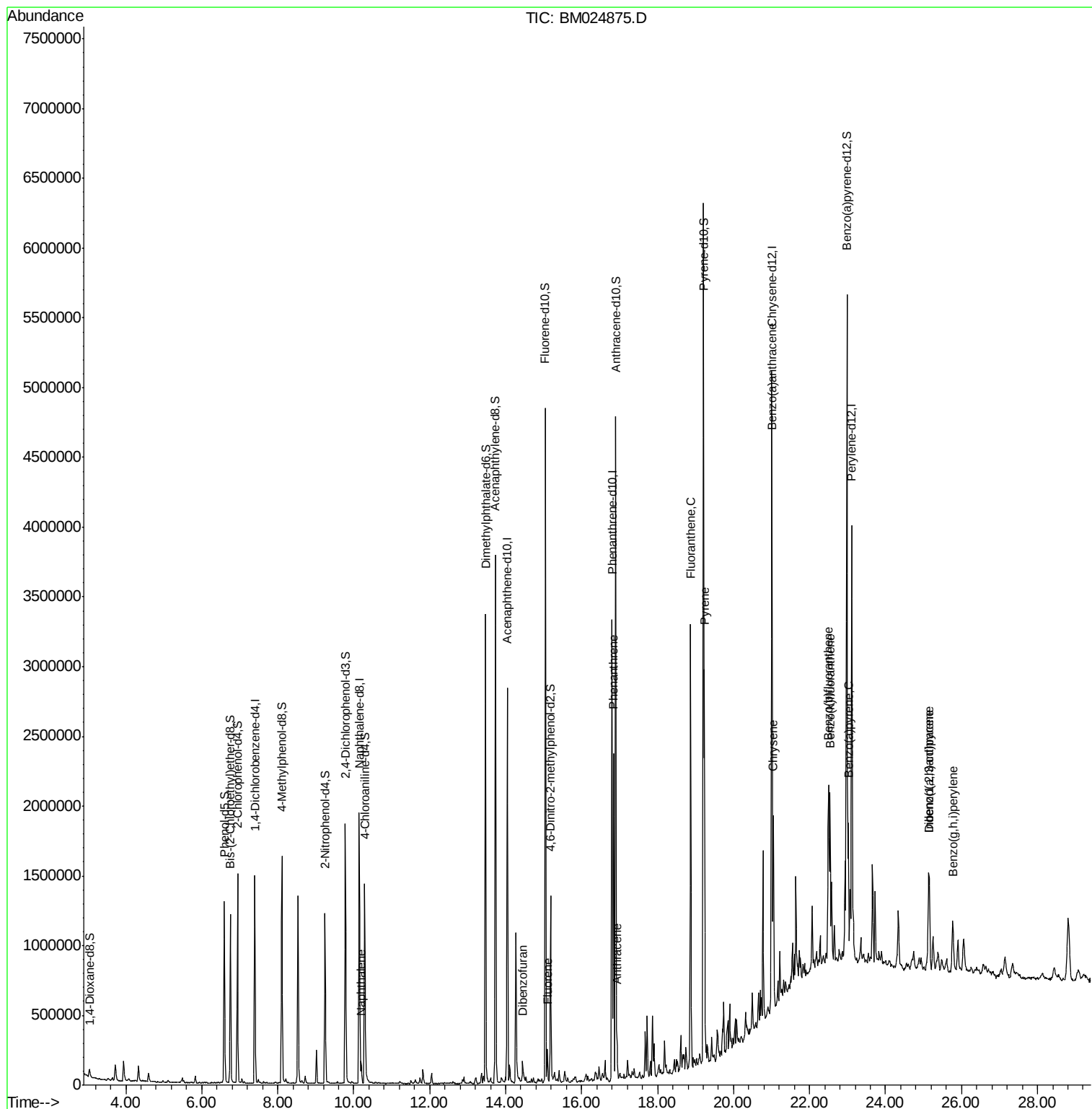
|                            |       |     |         |        |        |     |
|----------------------------|-------|-----|---------|--------|--------|-----|
| Target Compounds           |       |     |         | Qvalue |        |     |
| 28) Naphthalene            | 10.19 | 128 | 132243  | 1.590  | ng/ul  | 98  |
| 54) Dibenzofuran           | 14.45 | 168 | 89987   | 1.000  | ng/ul  | 99  |
| 59) Fluorene               | 15.10 | 166 | 90859   | 1.225  | ng/ul  | 99  |
| 70) Phenanthrene           | 16.84 | 178 | 1364154 | 12.463 | ng/ul  | 99  |
| 72) Anthracene             | 16.93 | 178 | 199970  | 1.801  | ng/ul  | 100 |
| 77) Fluoranthene           | 18.87 | 202 | 1924720 | 14.324 | ng/ul# | 96  |
| 80) Pyrene                 | 19.23 | 202 | 1616555 | 12.431 | ng/ul  | 96  |
| 83) Benzo(a)anthracene     | 21.00 | 228 | 835943  | 6.317  | ng/ul  | 98  |
| 85) Chrysene               | 21.04 | 228 | 839644  | 6.445  | ng/ul  | 100 |
| 88) Benzo(b)fluoranthene   | 22.50 | 252 | 1066844 | 8.122  | ng/ul# | 99  |
| 89) Benzo(k)fluoranthene   | 22.53 | 252 | 381799  | 3.020  | ng/ul# | 97  |
| 91) Benzo(a)pyrene         | 23.02 | 252 | 682857  | 5.798  | ng/ul  | 99  |
| 92) Indeno(1,2,3-cd)pyrene | 25.16 | 276 | 475947  | 3.246  | ng/ul  | 96  |
| 93) Dibenzo(a,h)anthracene | 25.16 | 278 | 139395  | 1.116  | ng/ul# | 94  |
| 94) Benzo(g,h,i)perylene   | 25.77 | 276 | 426195  | 3.495  | ng/ul  | 98  |

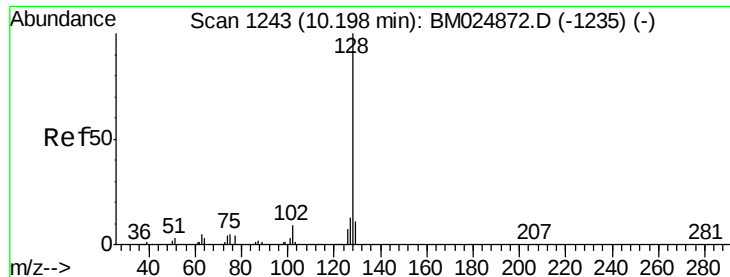
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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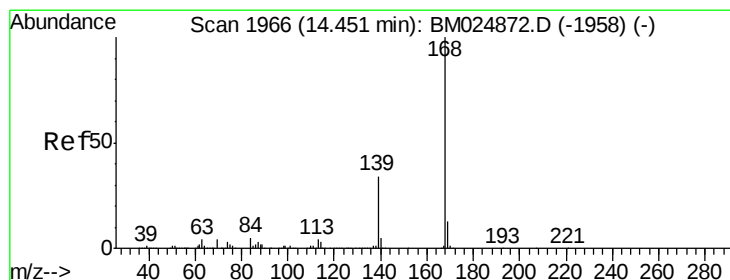
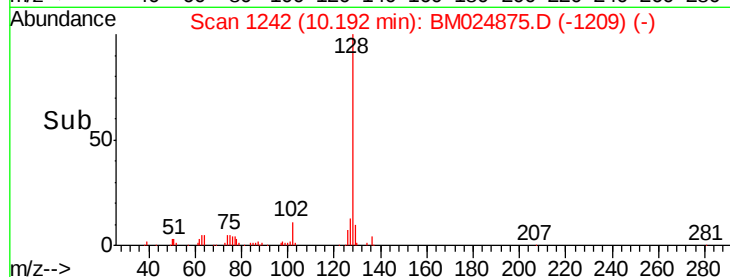
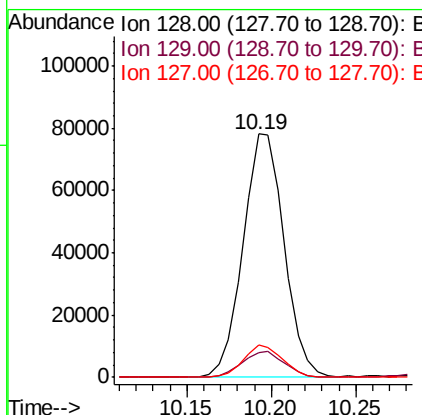
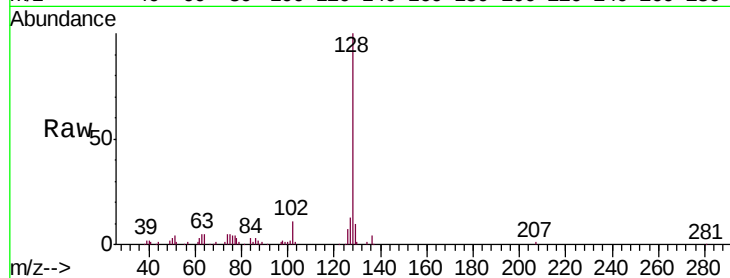




#28  
Naphthalene  
Concen: 1.590 ng/ul  
RT: 10.19 min Scan# 1242  
Delta R.T. -0.01 min  
Lab File: BM024875.D  
Acq: 14 Feb 2020 03:57

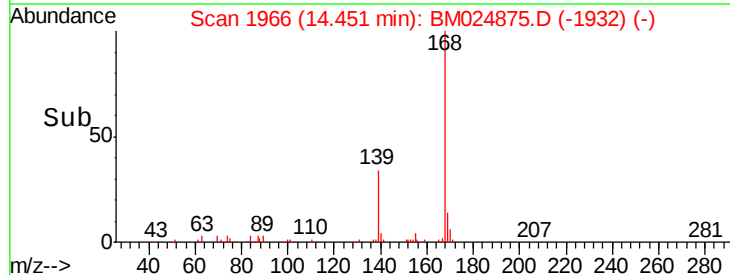
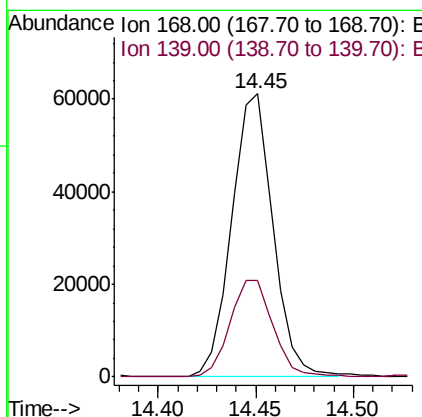
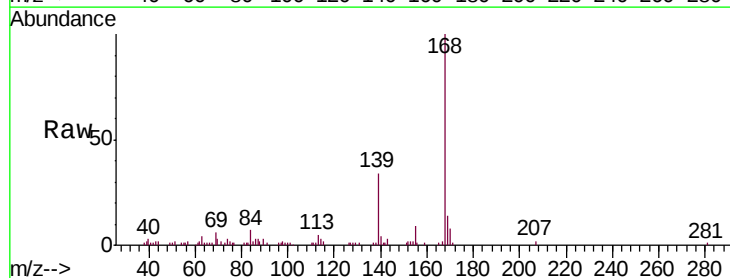
Instrument :  
BNA\_M  
ClientSampleId :  
CB6W4

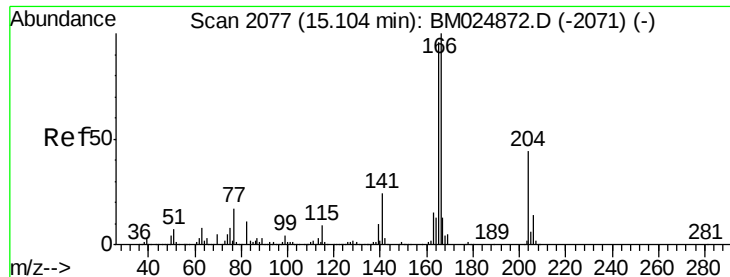
Tgt Ion:128 Resp: 132243  
Ion Ratio Lower Upper  
128 100  
129 10.0 9.1 13.7  
127 13.4 10.4 15.6



#54  
Dibenzofuran  
Concen: 1.000 ng/ul  
RT: 14.45 min Scan# 1966  
Delta R.T. 0.00 min  
Lab File: BM024875.D  
Acq: 14 Feb 2020 03:57

Tgt Ion:168 Resp: 89987  
Ion Ratio Lower Upper  
168 100  
139 34.3 27.8 41.8





#59

Fluorene

Concen: 1.225 ng/ul

RT: 15.10 min Scan# 2077

Delta R.T. 0.00 min

Lab File: BM024875.D

Acq: 14 Feb 2020 03:57

Instrument :

BNA\_M

ClientSampleId :

CB6W4

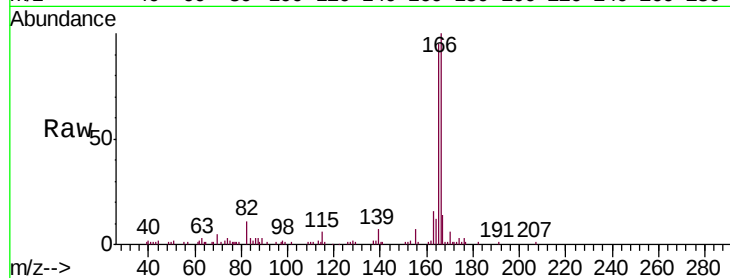
Tgt Ion:166 Resp: 90859

Ion Ratio Lower Upper

166 100

165 95.5 75.8 113.8

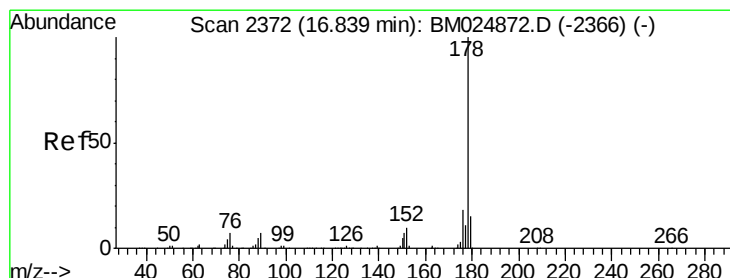
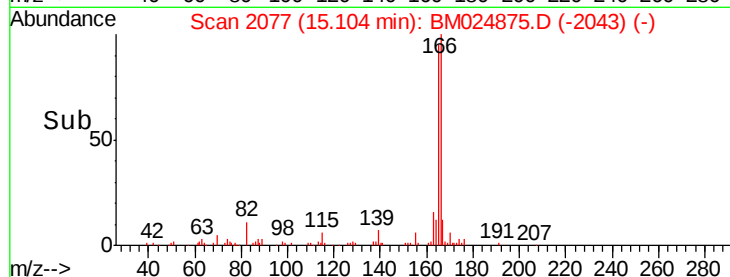
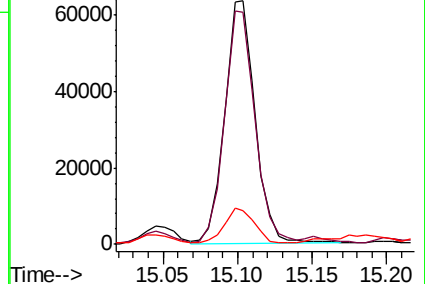
167 13.8 10.6 16.0



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



#70

Phenanthrene

Concen: 12.463 ng/ul

RT: 16.84 min Scan# 2372

Delta R.T. 0.00 min

Lab File: BM024875.D

Acq: 14 Feb 2020 03:57

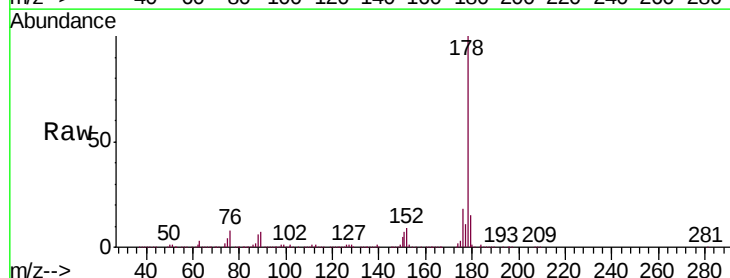
Tgt Ion:178 Resp: 1364154

Ion Ratio Lower Upper

178 100

179 15.5 12.2 18.2

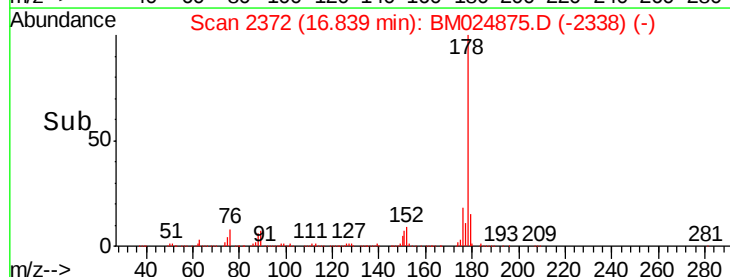
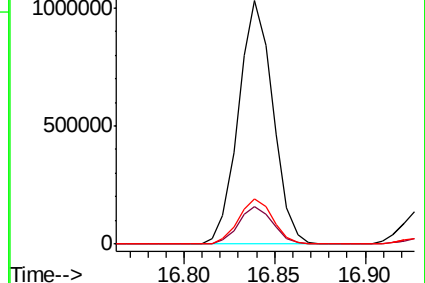
176 18.4 14.5 21.7

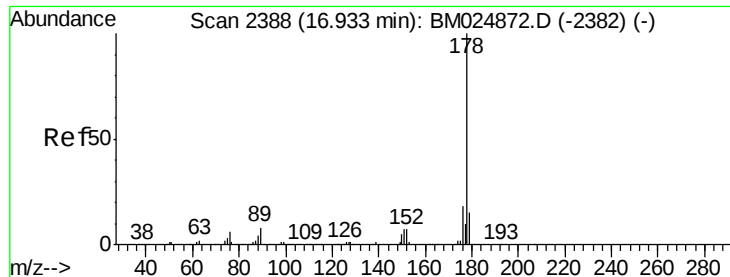


Abundance Ion 178.00 (177.70 to 178.70): E

Ion 179.00 (178.70 to 179.70): E

Ion 176.00 (175.70 to 176.70): E

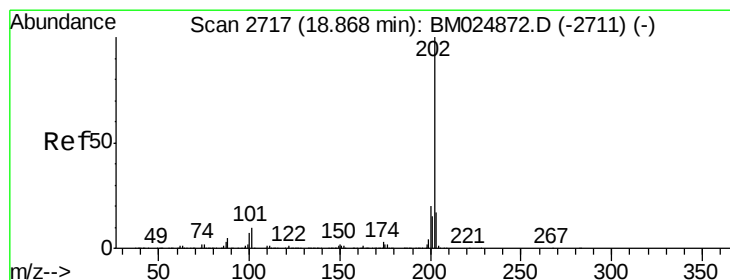
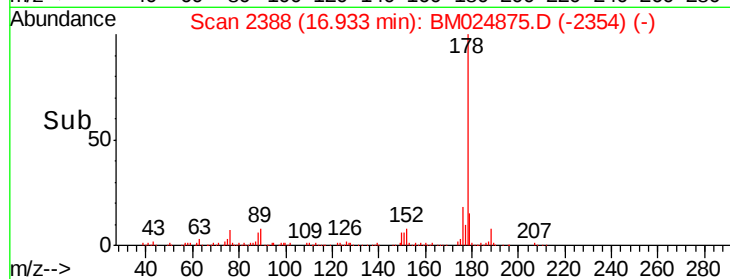
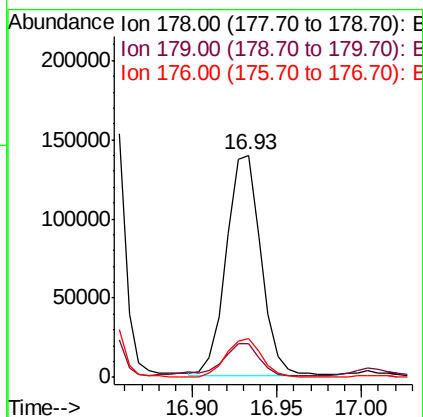
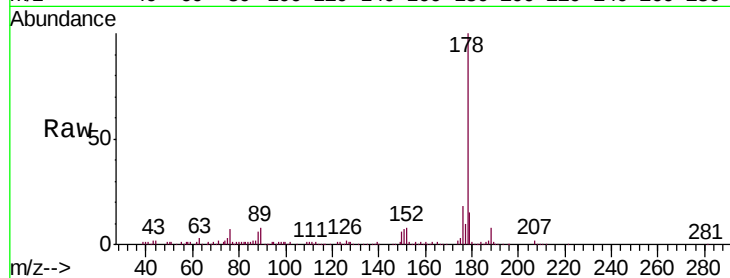




#72  
 Anthracene  
 Concen: 1.801 ng/ul  
 RT: 16.93 min Scan# 2388  
 Delta R.T. 0.00 min  
 Lab File: BM024875.D  
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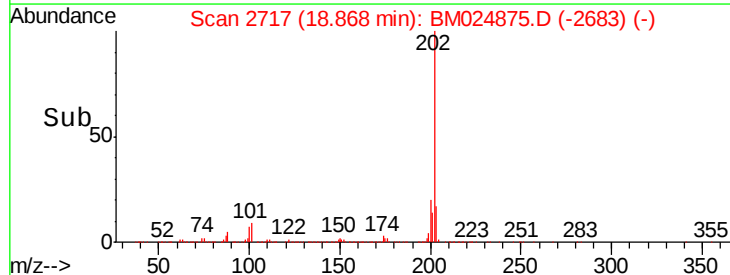
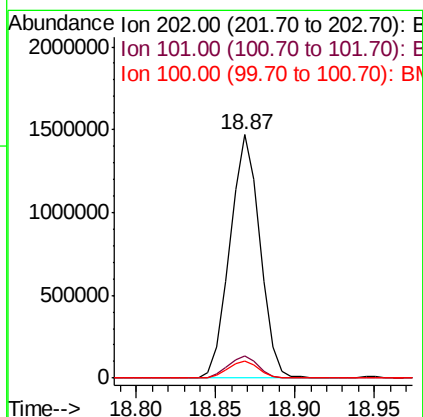
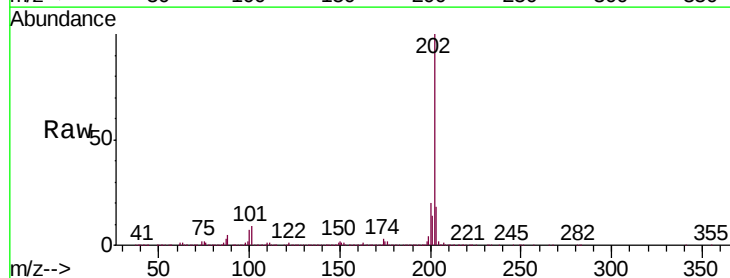
Instrument :  
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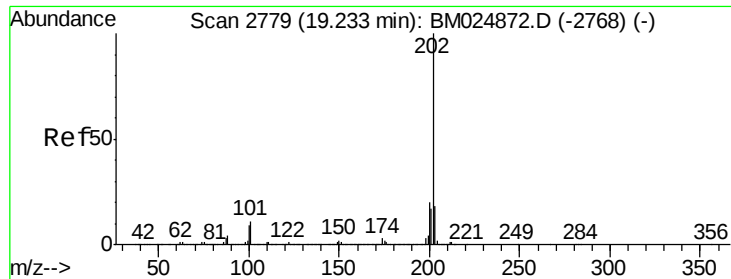
Tgt Ion:178 Resp: 199970  
 Ion Ratio Lower Upper  
 178 100  
 179 15.4 12.3 18.5  
 176 17.7 14.1 21.1



#77  
 Fluoranthene  
 Concen: 14.324 ng/ul  
 RT: 18.87 min Scan# 2717  
 Delta R.T. 0.00 min  
 Lab File: BM024875.D  
 Acq: 14 Feb 2020 03:57

Tgt Ion:202 Resp: 1924720  
 Ion Ratio Lower Upper  
 202 100  
 101 9.2 6.1 9.1#  
 100 7.1 4.8 7.2

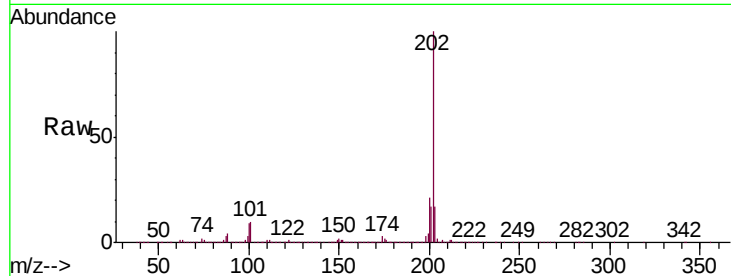




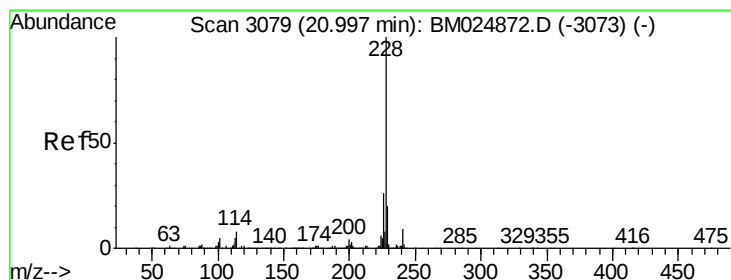
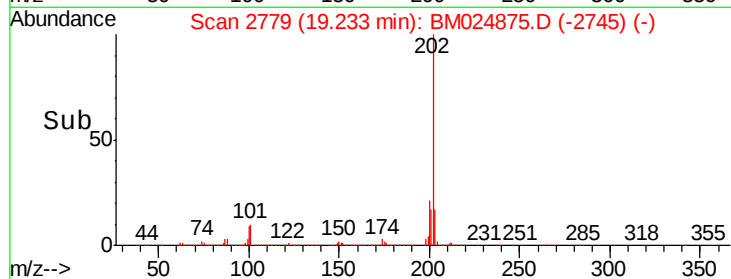
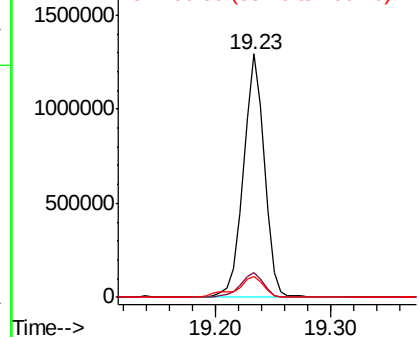
#80  
Pyrene  
Concen: 12.431 ng/ul  
RT: 19.23 min Scan# 2779  
Delta R.T. 0.00 min  
Lab File: BM024875.D  
Acq: 14 Feb 2020 03:57

Instrument :  
BNA\_M  
ClientSampleId :  
CB6W4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 10.4  | 7.0   | 10.4  |
| 100     | 8.7   | 5.8   | 8.8   |

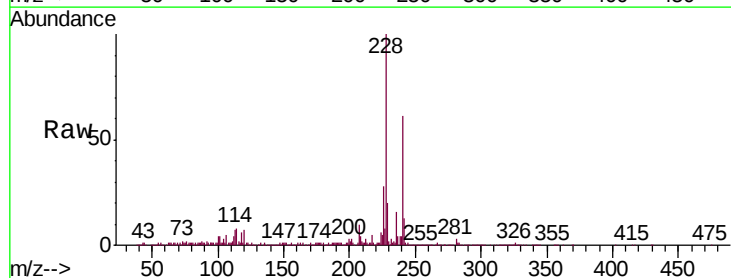


Abundance Ion 202.00 (201.70 to 202.70): E  
Ion 101.00 (100.70 to 101.70): E  
Ion 100.00 (99.70 to 100.70): B

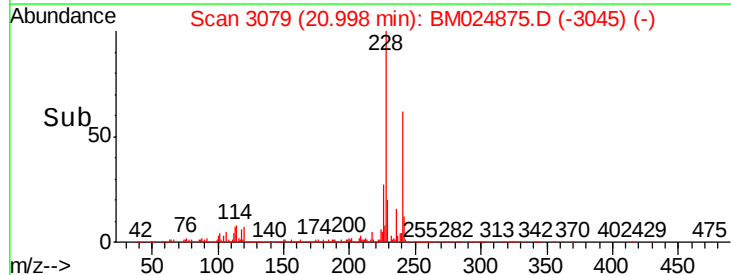
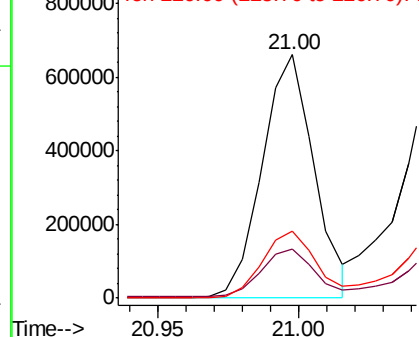


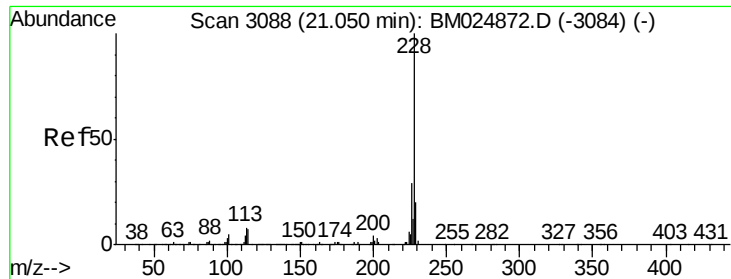
#83  
Benzo(a)anthracene  
Concen: 6.317 ng/ul  
RT: 21.00 min Scan# 3079  
Delta R.T. 0.00 min  
Lab File: BM024875.D  
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| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.3  | 15.9  | 23.9  |
| 226     | 27.6  | 20.8  | 31.2  |



Abundance Ion 228.00 (227.70 to 228.70): E  
Ion 229.00 (228.70 to 229.70): E  
Ion 226.00 (225.70 to 226.70): E





#85

Chrysene

Concen: 6.445 ng/ul

RT: 21.04 min Scan# 3087

Delta R.T. -0.01 min

Lab File: BM024875.D

Acq: 14 Feb 2020 03:57

Instrument :

BNA\_M

ClientSampleId :

CB6W4

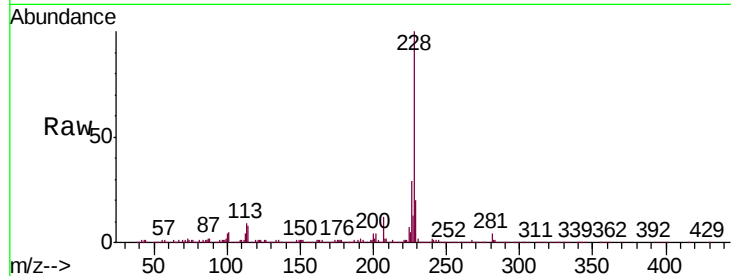
Tgt Ion:228 Resp: 839644

Ion Ratio Lower Upper

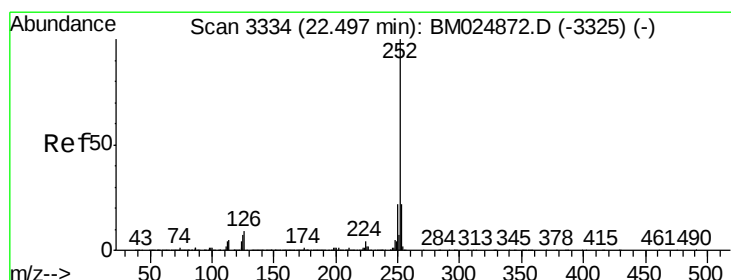
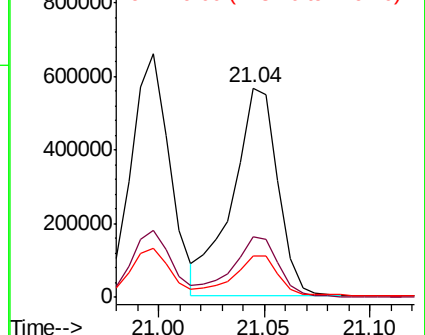
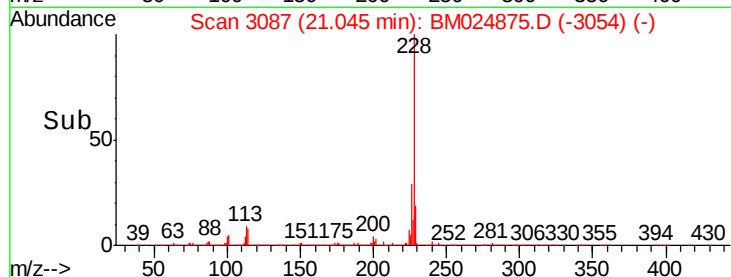
228 100

226 28.9 23.0 34.4

229 19.7 15.8 23.8



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



#88

Benzo(b)fluoranthene

Concen: 8.122 ng/ul

RT: 22.50 min Scan# 3334

Delta R.T. 0.00 min

Lab File: BM024875.D

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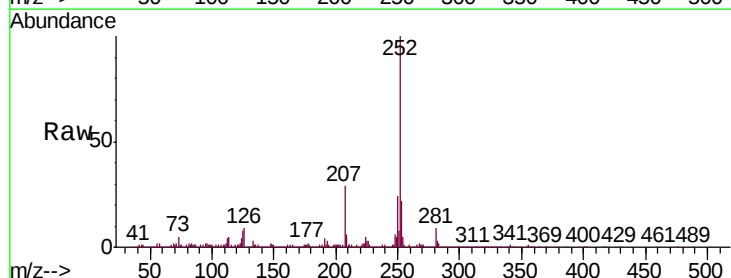
Tgt Ion:252 Resp: 1066844

Ion Ratio Lower Upper

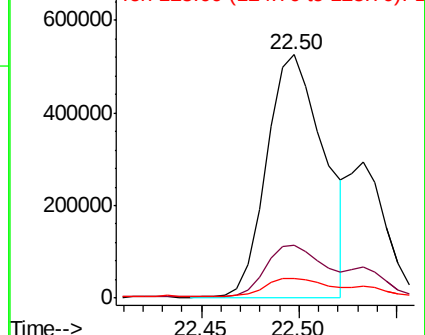
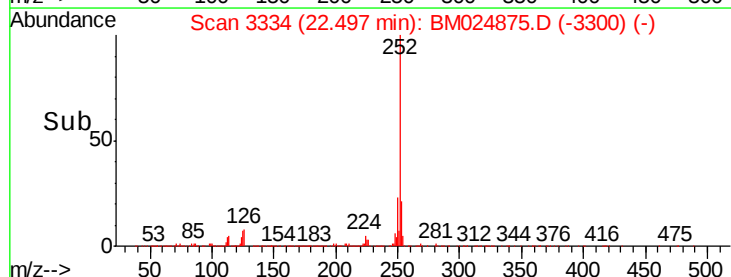
252 100

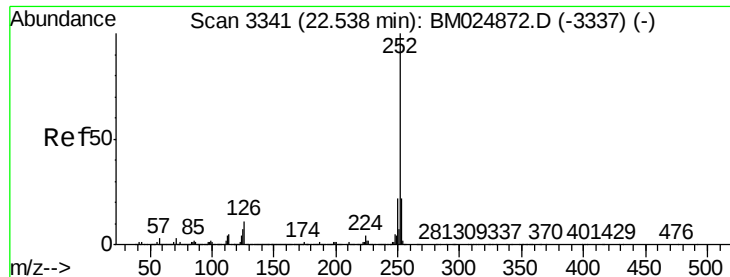
253 21.9 17.3 25.9

125 7.8 5.1 7.7#



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





#89

Benzo(k)fluoranthene

Concen: 3.020 ng/ul

RT: 22.53 min Scan# 3340

Delta R.T. -0.01 min

Lab File: BM024875.D

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ClientSampleId :

CB6W4

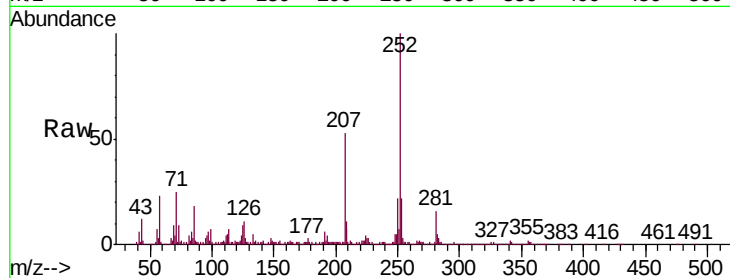
Tgt Ion:252 Resp: 381799

Ion Ratio Lower Upper

252 100

253 22.4 17.4 26.0

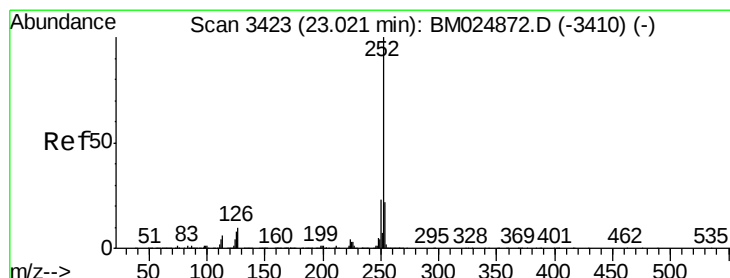
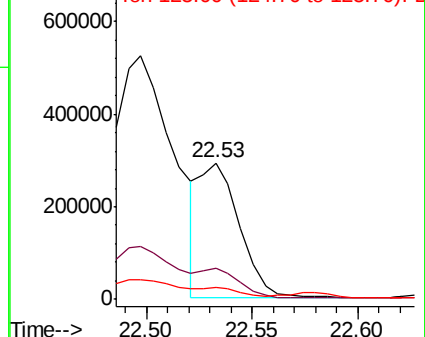
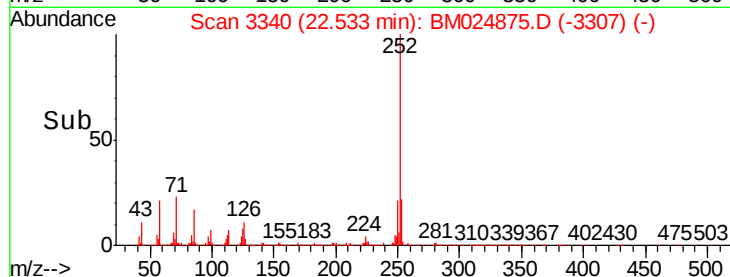
125 8.6 5.1 7.7#



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



#91

Benzo(a)pyrene

Concen: 5.798 ng/ul

RT: 23.02 min Scan# 3423

Delta R.T. 0.00 min

Lab File: BM024875.D

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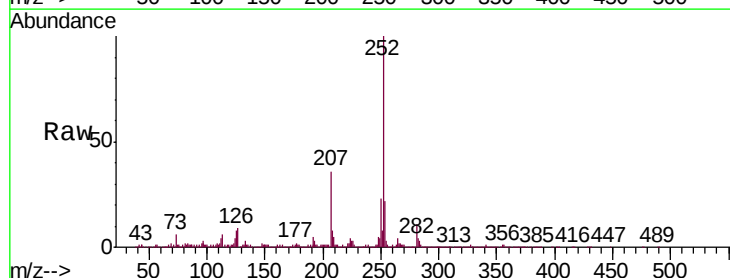
Tgt Ion:252 Resp: 682857

Ion Ratio Lower Upper

252 100

253 22.4 17.5 26.3

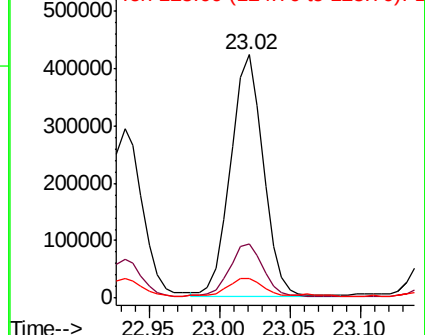
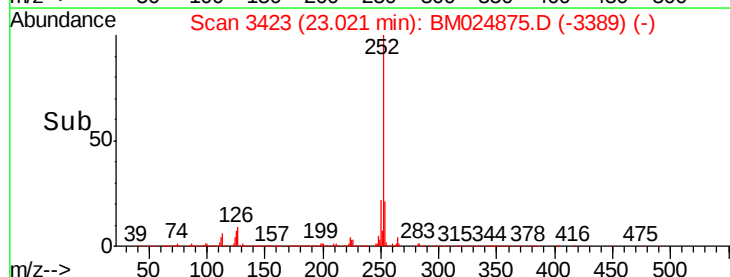
125 7.9 5.6 8.4

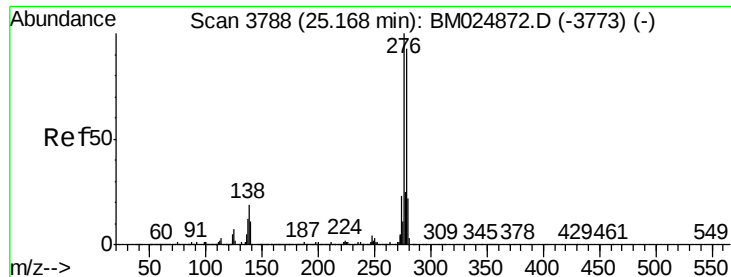


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



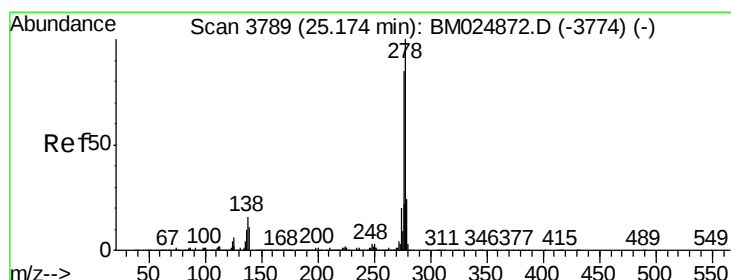
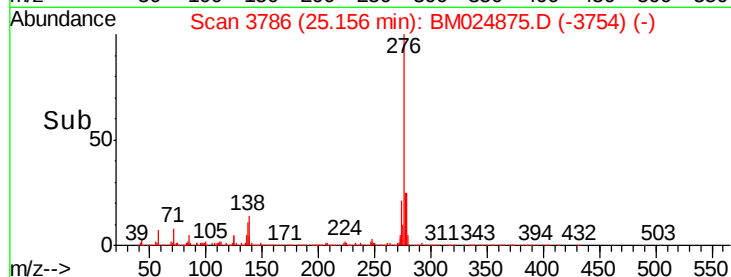
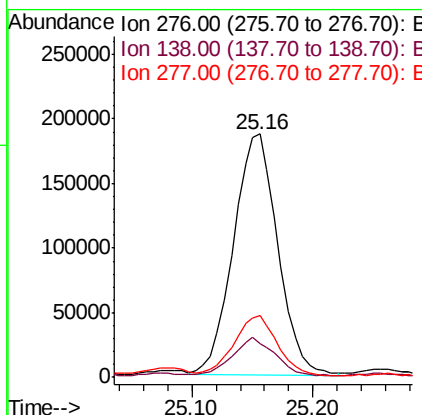
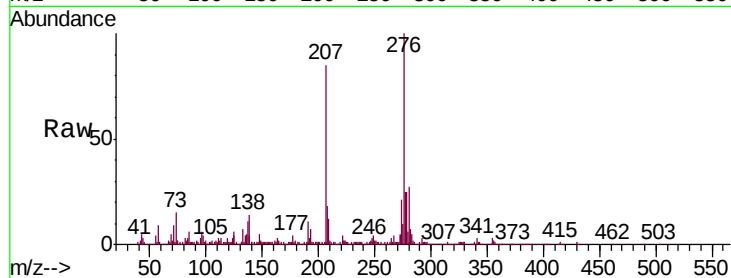


#92

Indeno(1,2,3-cd)pyrene  
Concen: 3.246 ng/ul  
RT: 25.16 min Scan# 3786  
Delta R.T. -0.01 min  
Lab File: BM024875.D  
Acq: 14 Feb 2020 03:57

Instrument :  
BNA\_M  
ClientSampleId :  
CB6W4

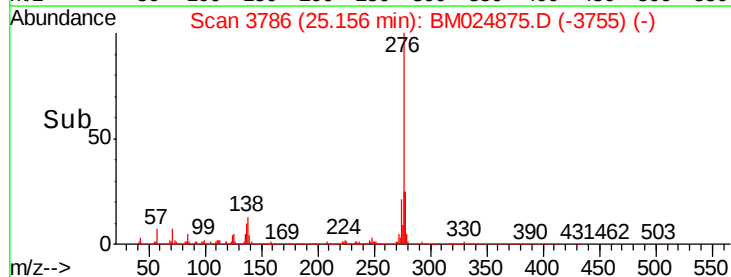
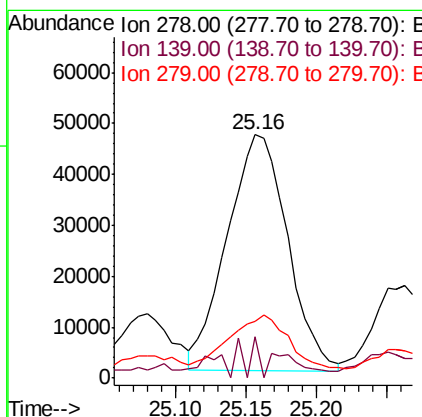
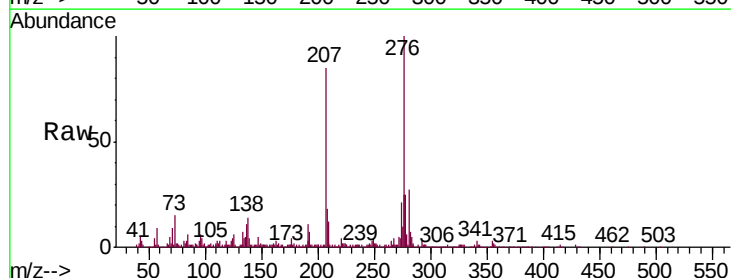
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 13.9  | 12.8  | 19.2  |
| 277     | 25.4  | 19.3  | 28.9  |

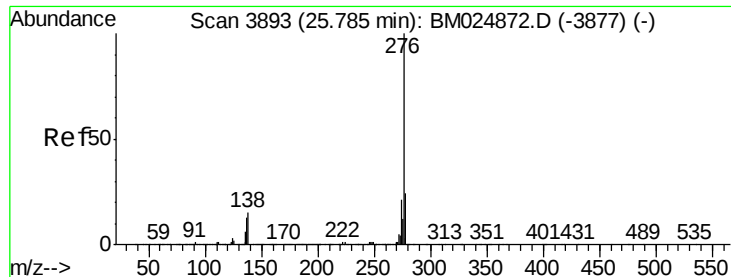


#93

Dibenzo(a,h)anthracene  
Concen: 1.116 ng/ul  
RT: 25.16 min Scan# 3786  
Delta R.T. -0.02 min  
Lab File: BM024875.D  
Acq: 14 Feb 2020 03:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 17.0  | 8.4   | 12.6# |
| 279     | 23.3  | 18.5  | 27.7  |





#94

Benzo(g,h,i)perylene

Concen: 3.495 ng/ul

RT: 25.77 min Scan# 3891

Delta R.T. -0.01 min

Lab File: BM024875.D

Acq: 14 Feb 2020 03:57

Instrument :

BNA\_M

ClientSampleId :

CB6W4

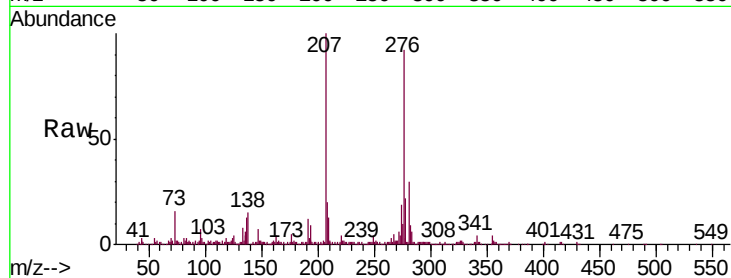
Tgt Ion: 276 Resp: 426195

Ion Ratio Lower Upper

276 100

138 16.2 11.8 17.6

277 24.0 19.0 28.6



Abundance

Ion 276.00 (275.70 to 276.70): E

Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E

