

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062519\  
 Data File : BM021190.D  
 Acq On : 26 Jun 2019 14:03  
 Operator : HP/JU  
 Sample : K3501-11  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C6AB8

Manual Integrations  
 APPROVED

mohammad  
 6/27/2019 8:17:46 AM

Quant Time: Jun 26 15:02:25 2019  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM061419MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Wed Jun 26 01:32:57 2019  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.77  | 152  | 221958   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.55 | 136  | 982536   | 20.00 | ng/ul | 0.00     |
| 35) Acenaphthene-d10      | 14.40 | 164  | 652475   | 20.00 | ng/ul | 0.00     |
| 61) Phenanthrene-d10      | 17.16 | 188  | 1594898  | 20.00 | ng/ul | 0.00     |
| 77) Chrysene-d12          | 21.34 | 240  | 1298880  | 20.00 | ng/ul | 0.00     |
| 85) Perylene-d12          | 23.61 | 264  | 1221244  | 20.00 | ng/ul | 0.00     |

|                                |       |     |         |       |       |      |
|--------------------------------|-------|-----|---------|-------|-------|------|
| System Monitoring Compounds    |       |     |         |       |       |      |
| 3) 1,4-Dioxane-d8              | 3.29  | 96  | 16941   | 3.62  | ng/uL | 0.00 |
| 5) Phenol-d5                   | 6.93  | 99  | 423368  | 21.91 | ng/ul | 0.00 |
| 7) Bis-(2-Chloroethyl)ether-d  | 7.10  | 67  | 246073  | 21.38 | ng/ul | 0.00 |
| 9) 2-Chlorophenol-d4           | 7.30  | 132 | 353535  | 22.52 | ng/ul | 0.00 |
| 13) 4-Methylphenol-d8          | 8.47  | 113 | 365869  | 22.69 | ng/ul | 0.00 |
| 19) Nitrobenzene-d5            | 8.93  | 128 | 187836  | 23.54 | ng/ul | 0.00 |
| 22) 2-Nitrophenol-d4           | 9.65  | 143 | 218986  | 24.73 | ng/ul | 0.00 |
| 26) 2,4-Dichlorophenol-d3      | 10.17 | 165 | 462561  | 25.69 | ng/ul | 0.00 |
| 29) 4-Chloroaniline-d4         | 10.70 | 131 | 481911  | 25.66 | ng/ul | 0.00 |
| 43) Dimethylphthalate-d6       | 13.82 | 166 | 1575396 | 26.72 | ng/ul | 0.00 |
| 46) Acenaphthylene-d8          | 14.10 | 160 | 1815690 | 25.16 | ng/ul | 0.00 |
| 51) 4-Nitrophenol-d4           | 14.62 | 143 | 171678  | 17.90 | ng/ul | 0.00 |
| 57) Fluorene-d10               | 15.40 | 176 | 1380423 | 26.92 | ng/ul | 0.00 |
| 62) 4,6-Dinitro-2-methylphenol | 15.53 | 200 | 178304  | 18.19 | ng/ul | 0.00 |
| 70) Anthracene-d10             | 17.26 | 188 | 2207376 | 26.63 | ng/ul | 0.00 |
| 78) Pyrene-d10                 | 19.55 | 212 | 2316600 | 29.72 | ng/ul | 0.00 |
| 89) Benzo(a)pyrene-d12         | 23.47 | 264 | 1852035 | 25.70 | ng/ul | 0.00 |

|                            |       |     |         |        |        |     |
|----------------------------|-------|-----|---------|--------|--------|-----|
| Target Compounds           |       |     |         | Ovalue |        |     |
| 6) Phenol                  | 6.96  | 94  | 29173   | 1.596  | ng/ul  | 96  |
| 44) Dimethylphthalate      | 13.87 | 163 | 956084  | 17.815 | ng/ul  | 99  |
| 69) Phenanthrene           | 17.20 | 178 | 160350  | 1.818  | ng/ul  | 99  |
| 76) Fluoranthene           | 19.22 | 202 | 527971  | 5.540  | ng/ul  | 100 |
| 79) Pyrene                 | 19.58 | 202 | 443961  | 4.835  | ng/ul  | 99  |
| 82) Benzo(a)anthracene     | 21.33 | 228 | 223768  | 2.527  | ng/ul  | 99  |
| 84) Chrysene               | 21.37 | 228 | 254667  | 3.071  | ng/ul  | 96  |
| 87) Benzo(b)fluoranthene   | 22.93 | 252 | 318971  | 4.123  | ng/ul# | 96  |
| 88) Benzo(k)fluoranthene   | 22.97 | 252 | 130097m | 1.748  | ng/ul  |     |
| 90) Benzo(a)pyrene         | 23.51 | 252 | 192710  | 2.647  | ng/ul  | 97  |
| 91) Indeno(1,2,3-cd)pyrene | 25.90 | 276 | 142714  | 1.664  | ng/ul  | 97  |
| 93) Benzo(g,h,i)perylene   | 26.60 | 276 | 109209  | 1.547  | ng/ul  | 97  |

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

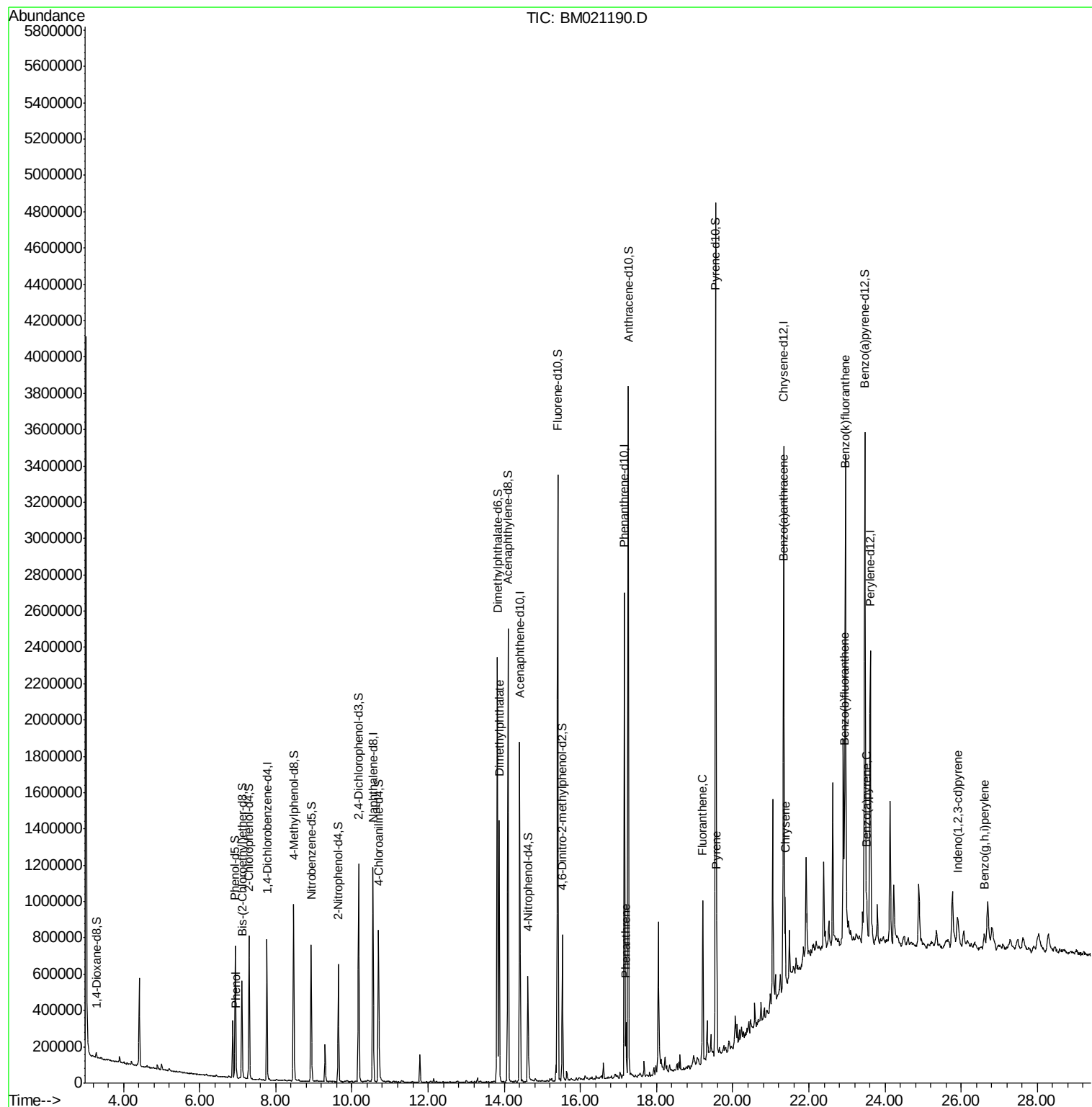
Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM062519\  
Data File : BM021190.D  
Acq On : 26 Jun 2019 14:03  
Operator : HP/JU  
Sample : K3501-11  
Misc :  
ALS Vial : 39 Sample Multiplier: 1

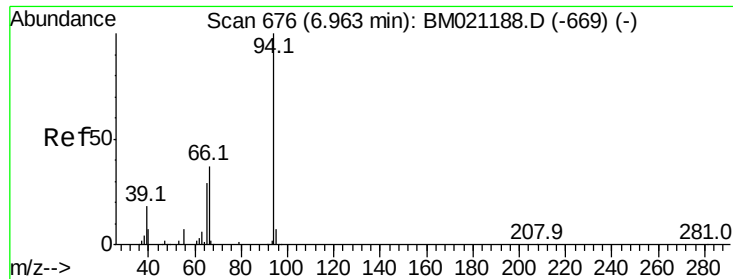
Instrument :  
BNA\_M  
ClientSampleId :  
C6AB8

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Quant Time: Jun 26 15:02:25 2019  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM061419MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Wed Jun 26 01:32:57 2019  
Response via : Initial Calibration





#6

Phenol

Concen: 1.596 ng/ul

RT: 6.96 min Scan# 676

Delta R.T. -0.00 min

Lab File: BM021190.D

Acq: 26 Jun 2019 14:03

Instrument :

BNA\_M

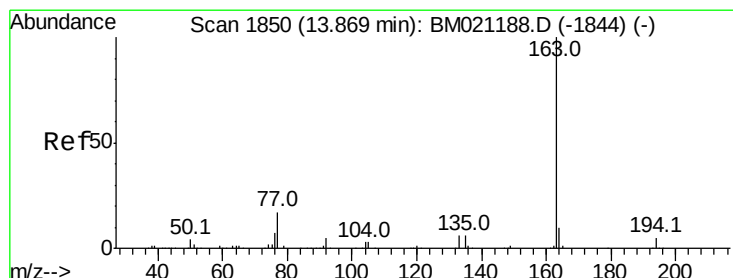
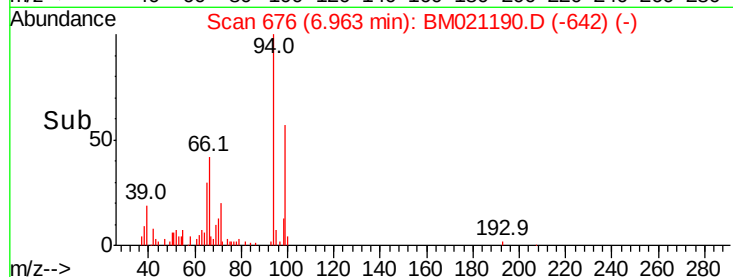
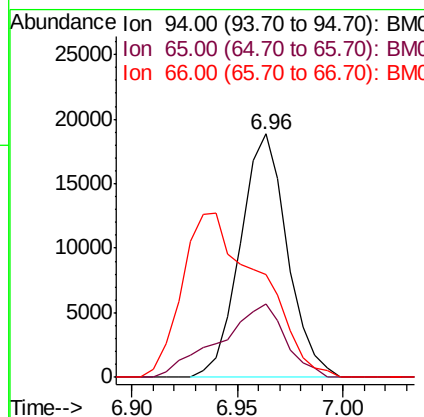
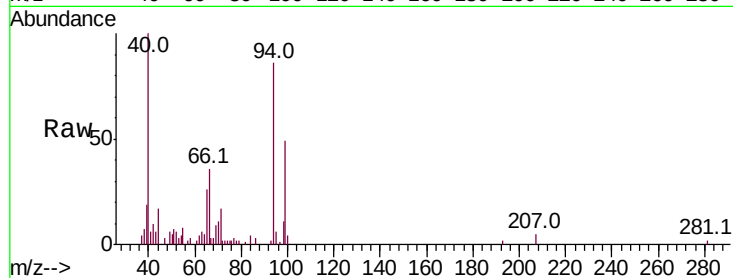
ClientSampled :

C6AB8

|           |       |       |       |
|-----------|-------|-------|-------|
| Tot Ion:  | 94    | Resp: | 29173 |
| Ion Ratio | Lower | Upper |       |
| 94        | 100   |       |       |
| 65        | 29.9  | 22.6  | 34.0  |
| 66        | 42.0  | 31.2  | 46.8  |

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#44

Dimethylphthalate

Concen: 17.815 ng/ul

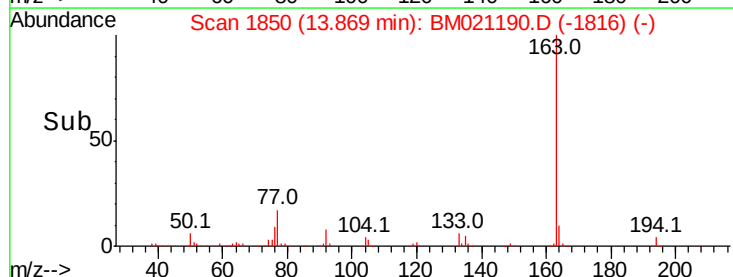
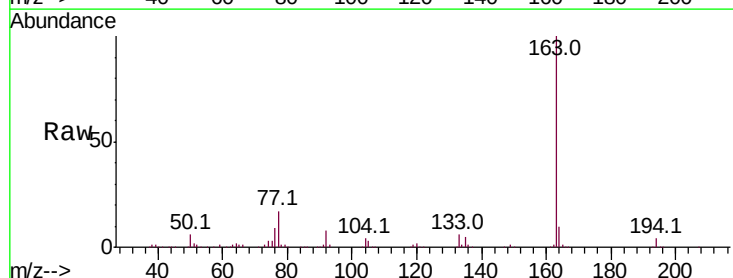
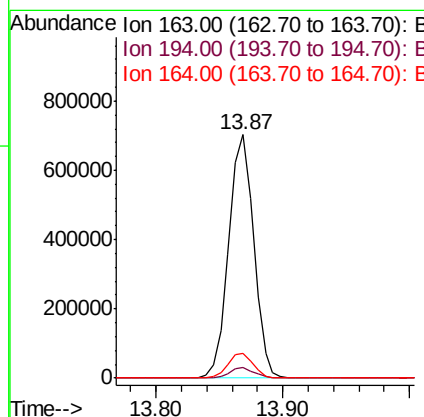
RT: 13.87 min Scan# 1850

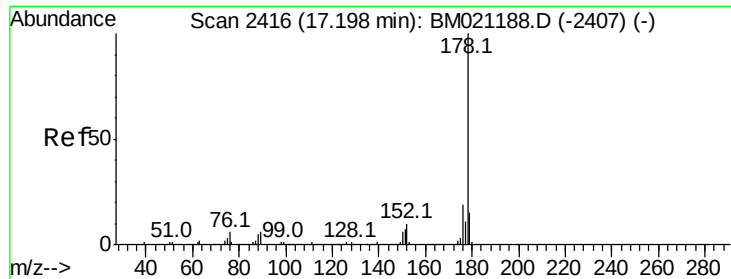
Delta R.T. -0.00 min

Lab File: BM021190.D

Acq: 26 Jun 2019 14:03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 163   | Resp: | 956084 |
| Ion Ratio | Lower | Upper |        |
| 163       | 100   |       |        |
| 194       | 4.2   | 3.4   | 5.2    |
| 164       | 10.1  | 7.7   | 11.5   |





#69

Phenanthrene

Concen: 1.818 ng/ul

RT: 17.20 min Scan# 2416

Delta R.T. -0.01 min

Lab File: BM021190.D

Acq: 26 Jun 2019 14:03

Instrument :

BNA\_M

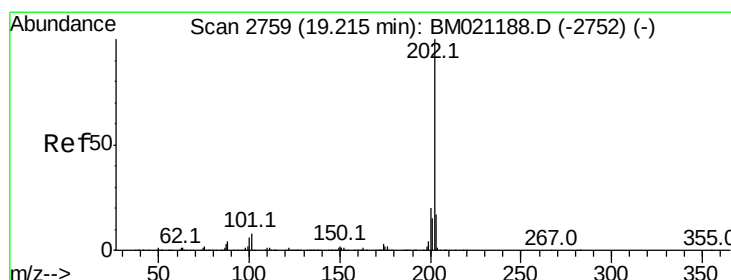
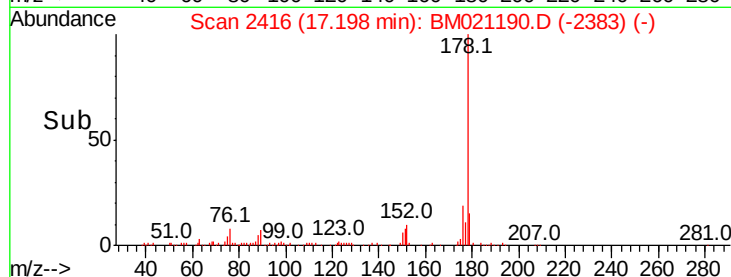
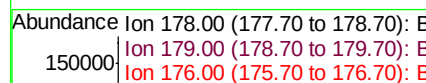
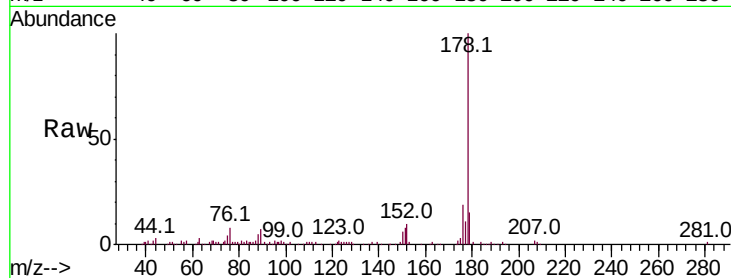
ClientSampleId :

C6AB8

|             |       |           |
|-------------|-------|-----------|
| Tot Ion:178 | Resp: | 160350    |
| Ion Ratio   | Lower | Upper     |
| 178         | 100   |           |
| 179         | 15.1  | 11.8 17.8 |
| 176         | 19.0  | 15.0 22.6 |

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#76

Fluoranthene

Concen: 5.540 ng/ul

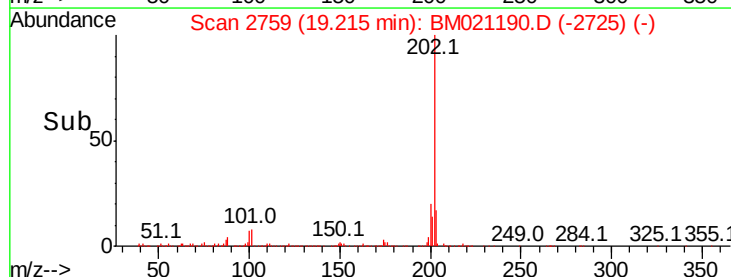
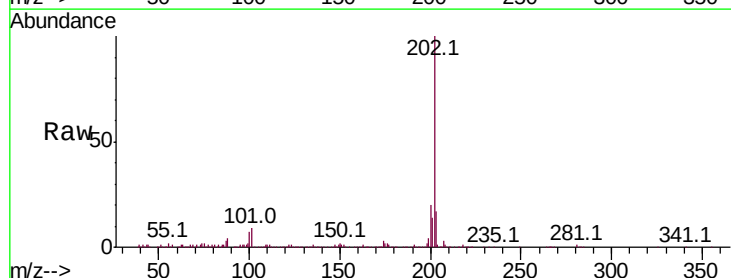
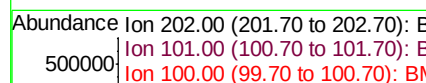
RT: 19.22 min Scan# 2759

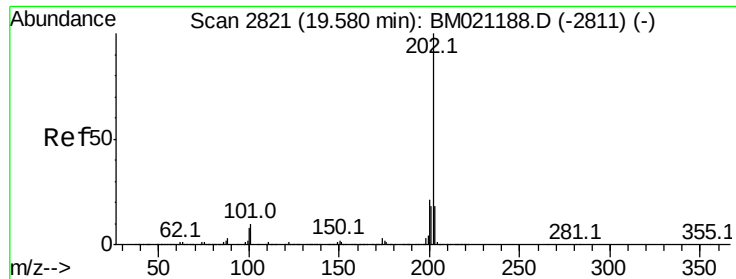
Delta R.T. -0.00 min

Lab File: BM021190.D

Acq: 26 Jun 2019 14:03

|             |       |          |
|-------------|-------|----------|
| Tgt Ion:202 | Resp: | 527971   |
| Ion Ratio   | Lower | Upper    |
| 202         | 100   |          |
| 101         | 8.6   | 6.7 10.1 |
| 100         | 6.8   | 5.5 8.3  |





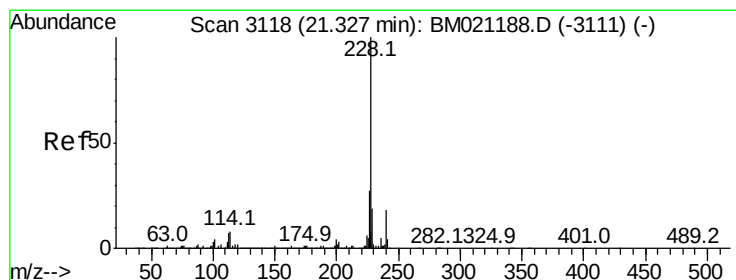
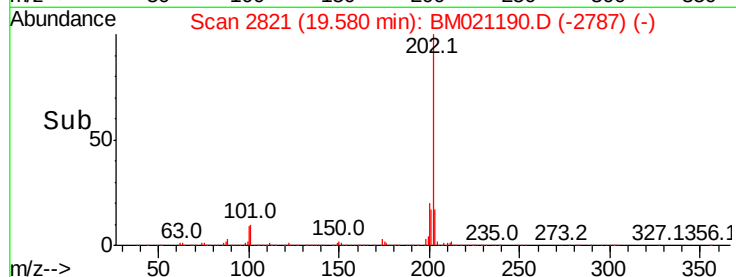
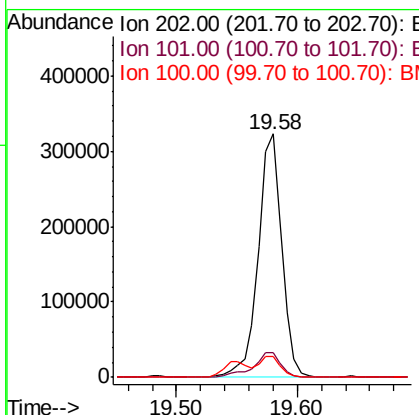
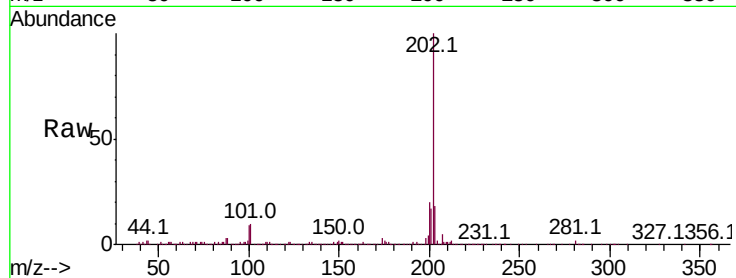
#79  
Pvrene  
Concen: 4.835 ng/ul  
RT: 19.58 min Scan# 2821  
Delta R.T. -0.00 min  
Lab File: BM021190.D  
Acq: 26 Jun 2019 14:03

Instrument :  
BNA\_M  
ClientSampleId :  
C6AB8

| Tot Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 202     | 100   |            |       |
| 101     | 10.3  | 8.1        | 12.1  |
| 100     | 8.6   | 6.6        | 10.0  |

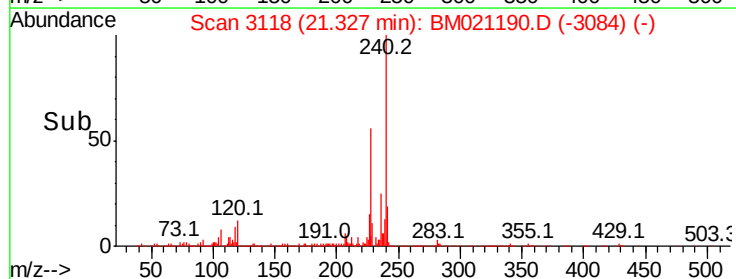
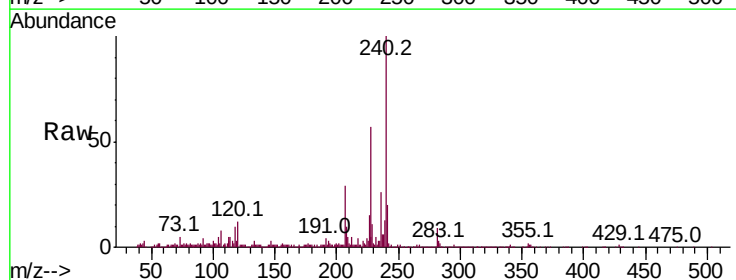
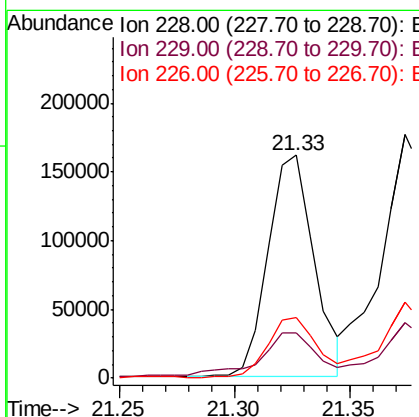
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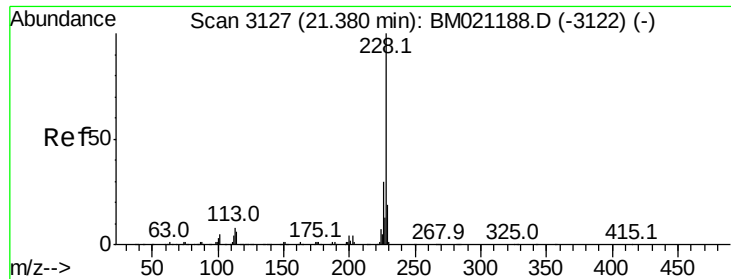
mohammad  
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#82  
Benzo(a)anthracene  
Concen: 2.527 ng/ul  
RT: 21.33 min Scan# 3118  
Delta R.T. -0.00 min  
Lab File: BM021190.D  
Acq: 26 Jun 2019 14:03

| Tgt Ion | Ratio | Resp Lower | Upper |
|---------|-------|------------|-------|
| 228     | 100   |            |       |
| 229     | 20.3  | 15.8       | 23.8  |
| 226     | 27.2  | 21.4       | 32.2  |





#84

Chrysene

Concen: 3.071 ng/ul

RT: 21.37 min Scan# 3126

Delta R.T. -0.01 min

Lab File: BM021190.D

Acq: 26 Jun 2019 14:03

Instrument :

BNA\_M

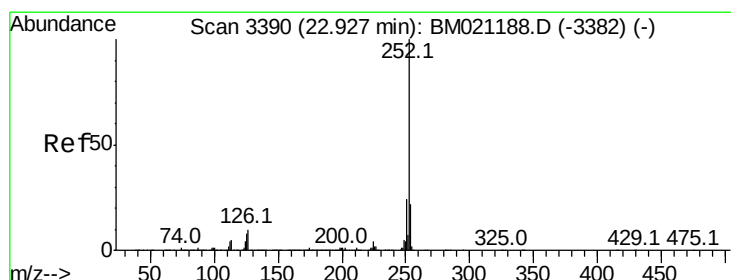
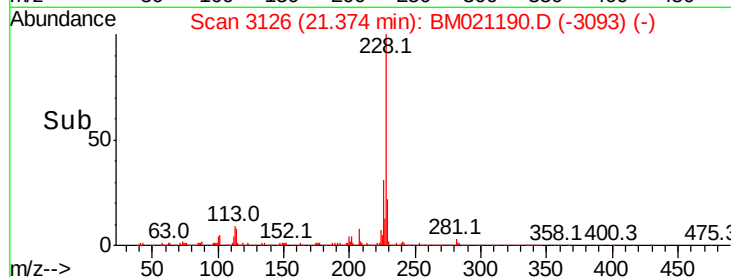
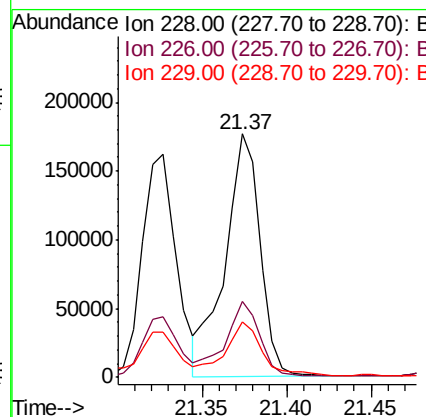
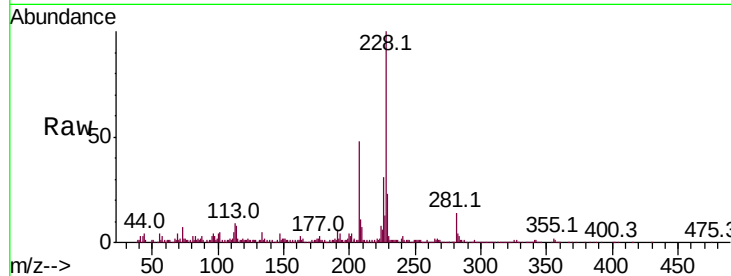
ClientSampleId :

C6AB8

|           |       |       |        |
|-----------|-------|-------|--------|
| Tot Ion:  | 228   | Resp: | 254667 |
| Ion Ratio | Lower | Upper |        |
| 228       | 100   |       |        |
| 226       | 31.1  | 23.9  | 35.9   |
| 229       | 22.6  | 15.4  | 23.2   |

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#87

Benzo(b)fluoranthene

Concen: 4.123 ng/ul

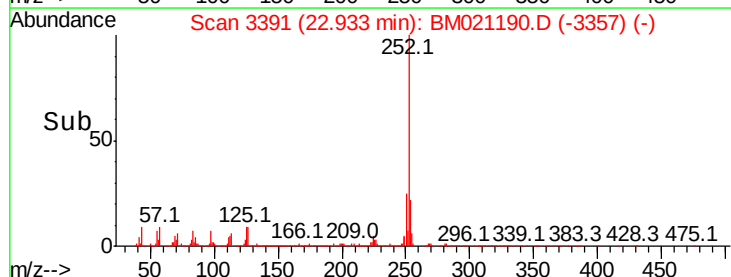
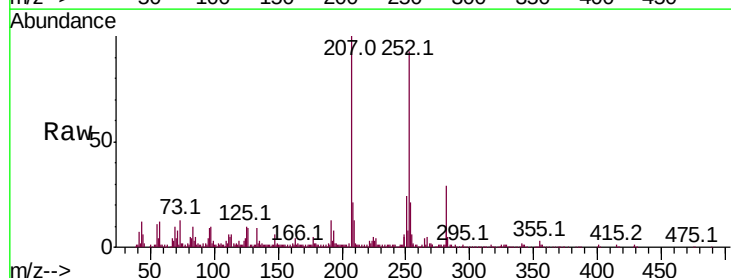
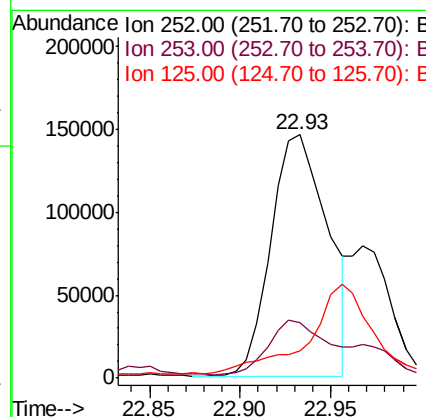
RT: 22.93 min Scan# 3391

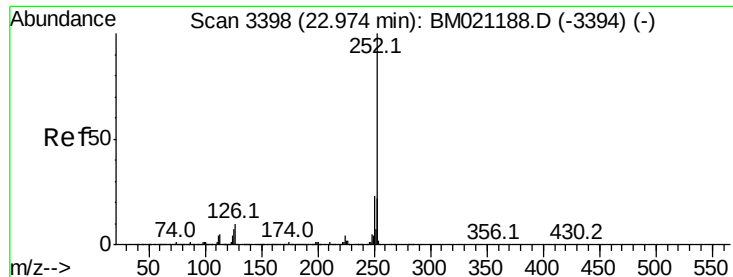
Delta R.T. -0.00 min

Lab File: BM021190.D

Acq: 26 Jun 2019 14:03

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 252   | Resp: | 318971 |
| Ion Ratio | Lower | Upper |        |
| 252       | 100   |       |        |
| 253       | 22.7  | 17.5  | 26.3   |
| 125       | 11.2  | 6.3   | 9.5#   |





#88

Benzo(k)fluoranthene

Concen: 1.748 ng/ul m

RT: 22.97 min Scan# 3397

Delta R.T. -0.01 min

Lab File: BM021190.D

Acq: 26 Jun 2019 14:03

Instrument :

BNA\_M

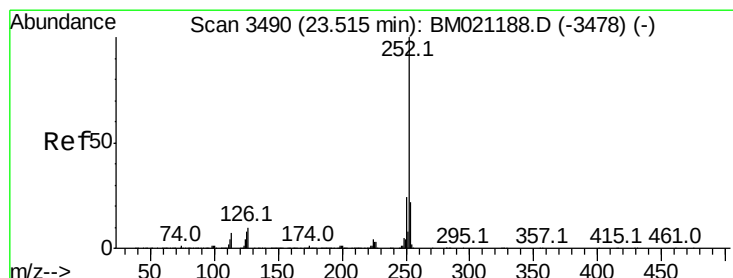
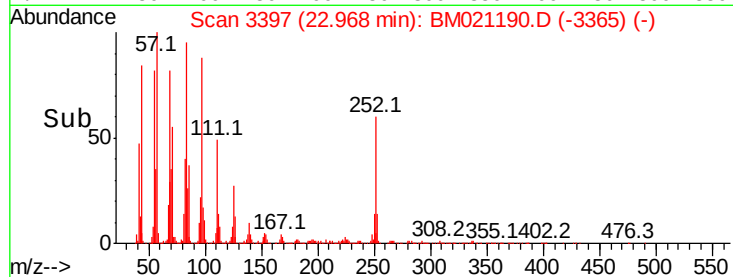
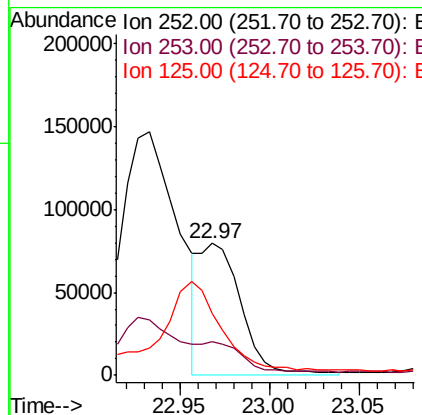
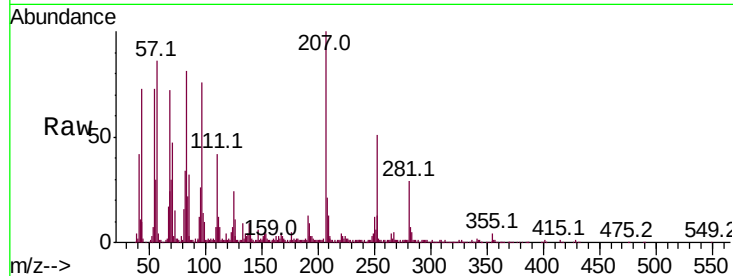
ClientSampled :

C6AB8

|             |       |        |
|-------------|-------|--------|
| Tot Ion:252 | Resp: | 130097 |
| Ion Ratio   | Lower | Upper  |
| 252 100     |       |        |
| 253 25.1    | 17.5  | 26.3   |
| 125 46.8    | 6.6   | 9.8#   |

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#90

Benzo(a)pyrene

Concen: 2.647 ng/ul

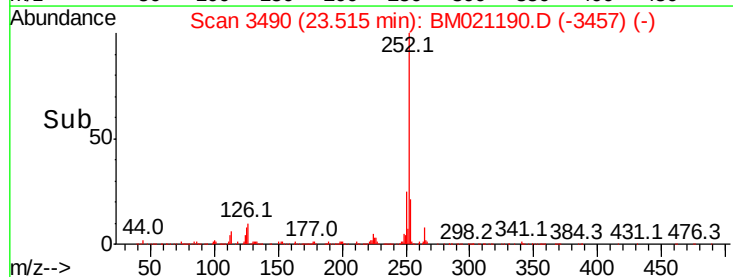
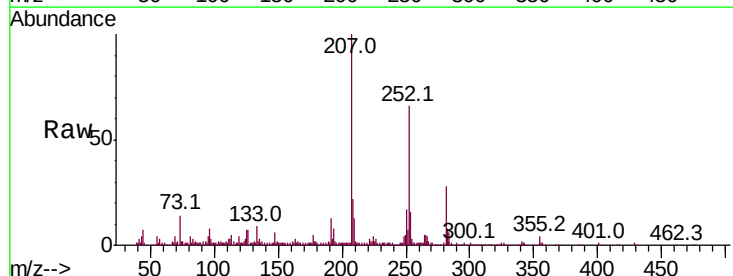
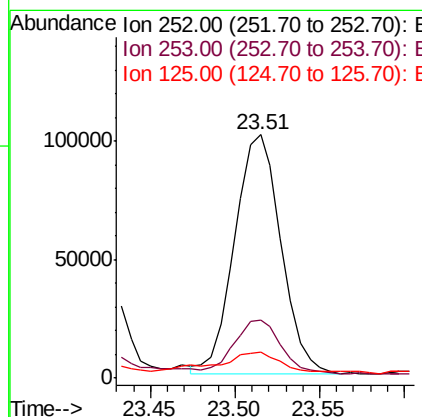
RT: 23.51 min Scan# 3490

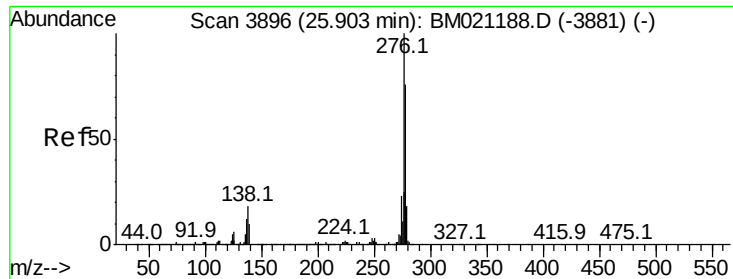
Delta R.T. -0.01 min

Lab File: BM021190.D

Acq: 26 Jun 2019 14:03

|             |       |        |
|-------------|-------|--------|
| Tgt Ion:252 | Resp: | 192710 |
| Ion Ratio   | Lower | Upper  |
| 252 100     |       |        |
| 253 23.7    | 17.8  | 26.8   |
| 125 10.6    | 7.2   | 10.8   |





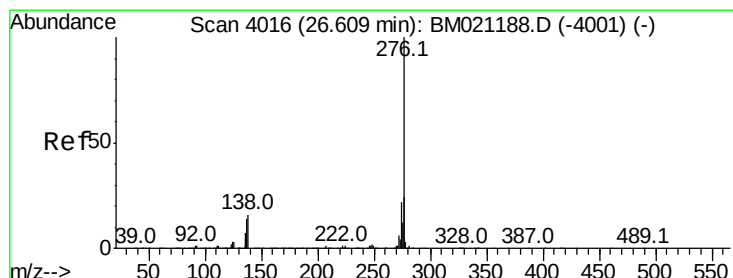
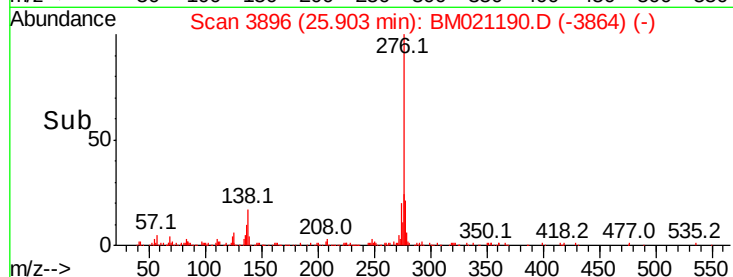
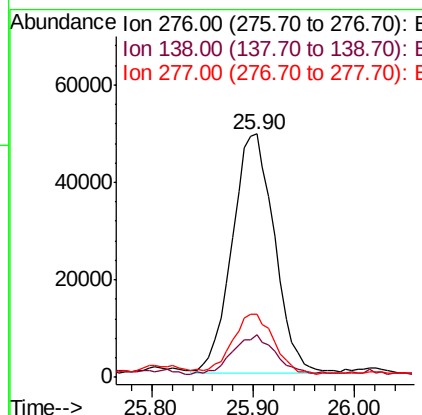
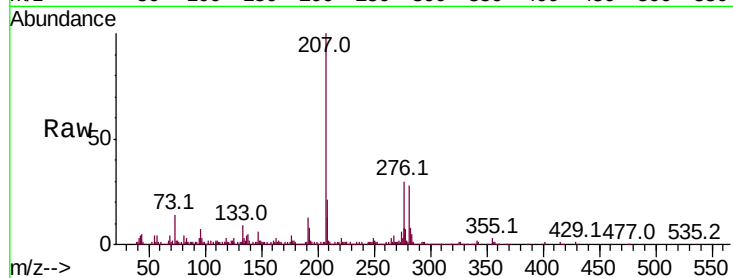
#91  
 Indeno(1,2,3-cd)pyrene  
 Concen: 1.664 ng/ul  
 RT: 25.90 min Scan# 3896  
 Delta R.T. -0.01 min  
 Lab File: BM021190.D  
 Acq: 26 Jun 2019 14:03

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C6AB8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 17.7  | 15.9  | 23.9  |
| 277     | 25.9  | 20.4  | 30.6  |

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#93  
 Benzo(g,h,i)perylene  
 Concen: 1.547 ng/ul  
 RT: 26.60 min Scan# 4015  
 Delta R.T. -0.02 min  
 Lab File: BM021190.D  
 Acq: 26 Jun 2019 14:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.8  | 14.6  | 21.8  |
| 277     | 24.2  | 18.9  | 28.3  |

