

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM020620\  
 Data File : BM024782.D  
 Acq On : 08 Feb 2020 04:17  
 Operator : CG/JU  
 Sample : L1400-02  
 Misc :  
 ALS Vial : 61 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB6G8

Manual Integrations  
 APPROVED

mohammad  
 2/11/2020 8:22:16 AM

Quant Time: Feb 10 14:12:41 2020  
 Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM020620MA.M  
 Quant Title : SVOA CALIBRATION  
 QLast Update : Fri Feb 07 22:29:17 2020  
 Response via : Initial Calibration

| Internal Standards        | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|---------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4 | 7.40  | 152  | 312373   | 20.00 | ng/ul | 0.00     |
| 18) Naphthalene-d8        | 10.16 | 136  | 1235080  | 20.00 | ng/ul | 0.00     |
| 36) Acenaphthene-d10      | 14.06 | 164  | 831536   | 20.00 | ng/ul | 0.00     |
| 62) Phenanthrene-d10      | 16.81 | 188  | 1857305  | 20.00 | ng/ul | 0.00     |
| 78) Chrysene-d12          | 21.02 | 240  | 1877496  | 20.00 | ng/ul | -0.01    |
| 86) Perylene-d12          | 23.13 | 264  | 1932061  | 20.00 | ng/ul | 0.00     |

## System Monitoring Compounds

|                                |       |     |         |       |       |       |
|--------------------------------|-------|-----|---------|-------|-------|-------|
| 3) 1,4-Dioxane-d8              | 3.02  | 96  | 25512   | 3.93  | ng/uL | 0.00  |
| 5) Phenol-d5                   | 6.60  | 99  | 466549  | 22.48 | ng/ul | -0.01 |
| 7) Bis-(2-Chloroethyl)ether-d  | 6.76  | 67  | 299515  | 25.56 | ng/ul | 0.00  |
| 9) 2-Chlorophenol-d4           | 6.95  | 132 | 430669  | 23.16 | ng/ul | 0.00  |
| 13) 4-Methylphenol-d8          | 8.12  | 113 | 394187  | 22.51 | ng/ul | -0.01 |
| 19) Nitrobenzene-d5            | 8.55  | 128 | 222340  | 24.89 | ng/ul | 0.00  |
| 22) 2-Nitrophenol-d4           | 9.26  | 143 | 266334  | 25.24 | ng/ul | 0.00  |
| 26) 2,4-Dichlorophenol-d3      | 9.79  | 165 | 471711  | 22.16 | ng/ul | -0.01 |
| 29) 4-Chloroaniline-d4         | 10.30 | 131 | 558814  | 28.06 | ng/ul | 0.00  |
| 44) Dimethylphthalate-d6       | 13.48 | 166 | 1610730 | 25.66 | ng/ul | 0.00  |
| 47) Acenaphthylene-d8          | 13.74 | 160 | 1755275 | 23.95 | ng/ul | -0.01 |
| 52) 4-Nitrophenol-d4           | 14.28 | 143 | 219774  | 21.55 | ng/ul | 0.00  |
| 58) Fluorene-d10               | 15.06 | 176 | 1375047 | 24.74 | ng/ul | 0.00  |
| 63) 4,6-Dinitro-2-methylphenol | 15.19 | 200 | 237476  | 19.62 | ng/ul | 0.00  |
| 71) Anthracene-d10             | 16.91 | 188 | 1961923 | 23.14 | ng/ul | 0.00  |
| 79) Pyrene-d10                 | 19.22 | 212 | 2190820 | 23.33 | ng/ul | 0.00  |
| 90) Benzo(a)pyrene-d12         | 22.99 | 264 | 2171352 | 22.38 | ng/ul | -0.01 |

## Target Compounds

|                                |       |     |         |        | Ovalue |     |
|--------------------------------|-------|-----|---------|--------|--------|-----|
| 45) Dimethylphthalate          | 13.53 | 163 | 121401  | 1.854  | ng/ul# | 97  |
| 70) Phenanthrene               | 16.85 | 178 | 646659  | 6.386  | ng/ul  | 99  |
| 72) Anthracene                 | 16.94 | 178 | 131791  | 1.283  | ng/ul  | 98  |
| 77) Fluoranthene               | 18.88 | 202 | 1308959 | 10.529 | ng/ul  | 99  |
| 80) Pyrene                     | 19.24 | 202 | 1090949 | 8.778  | ng/ul  | 99  |
| 83) Benzo(a)anthracene         | 21.01 | 228 | 712884  | 5.637  | ng/ul  | 97  |
| 84) Bis(2-ethylhexyl)phthalate | 20.98 | 149 | 514015  | 6.986  | ng/ul  | 99  |
| 85) Chrysene                   | 21.06 | 228 | 715496  | 5.747  | ng/ul  | 100 |
| 88) Benzo(b)fluoranthene       | 22.51 | 252 | 1023936 | 8.334  | ng/ul  | 98  |
| 89) Benzo(k)fluoranthene       | 22.54 | 252 | 306340m | 2.591  | ng/ul  |     |
| 91) Benzo(a)pyrene             | 23.03 | 252 | 527132  | 4.786  | ng/ul  | 98  |
| 92) Indeno(1,2,3-cd)pyrene     | 25.17 | 276 | 423136  | 3.086  | ng/ul  | 99  |
| 93) Dibenzo(a,h)anthracene     | 25.18 | 278 | 128680  | 1.101  | ng/ul# | 93  |
| 94) Benzo(g,h,i)perylene       | 25.80 | 276 | 318193  | 2.790  | ng/ul  | 97  |

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

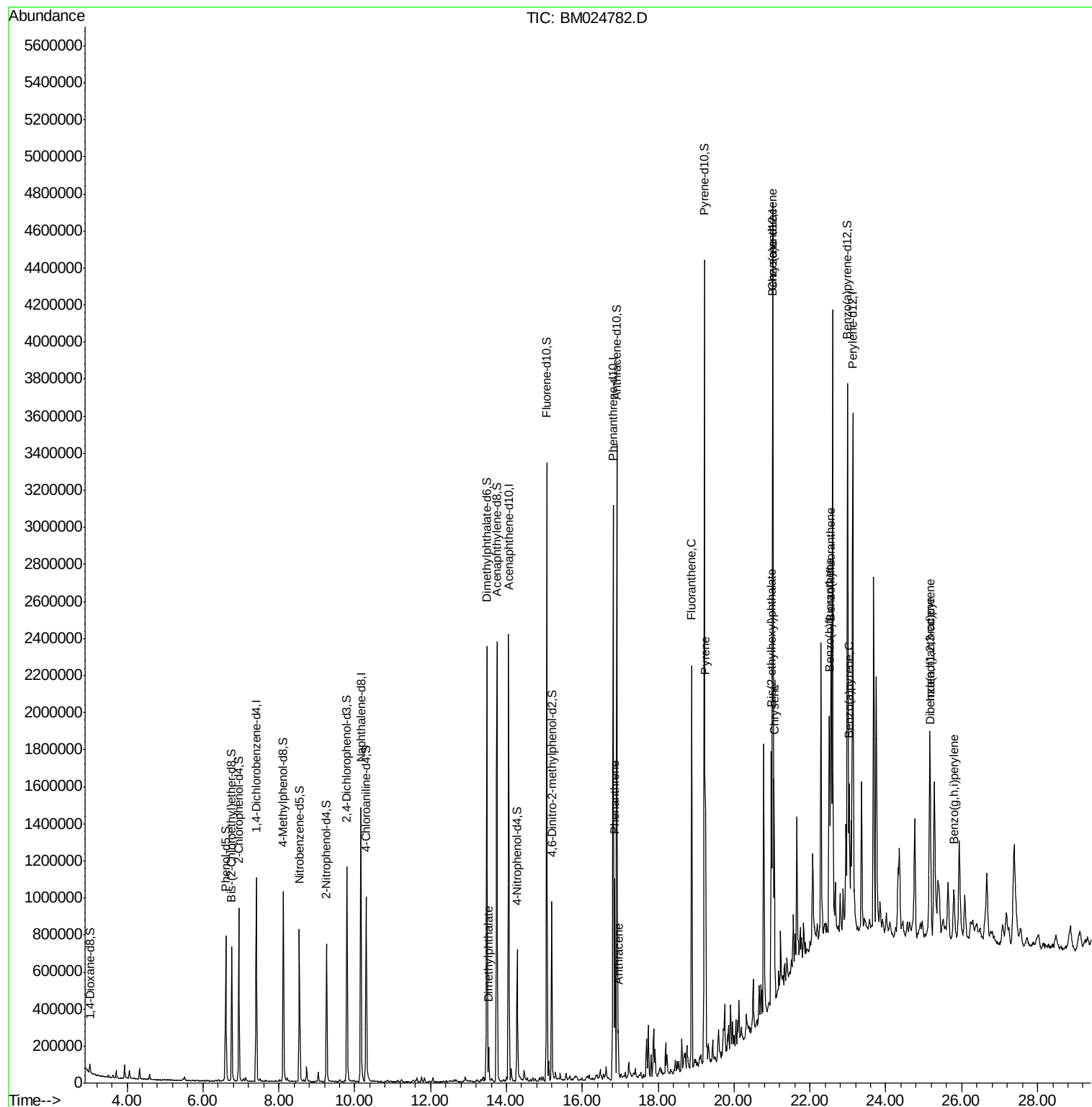
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Data File : BM024782.D  
Acq On : 08 Feb 2020 04:17  
Operator : CG/JU  
Sample : L1400-02  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

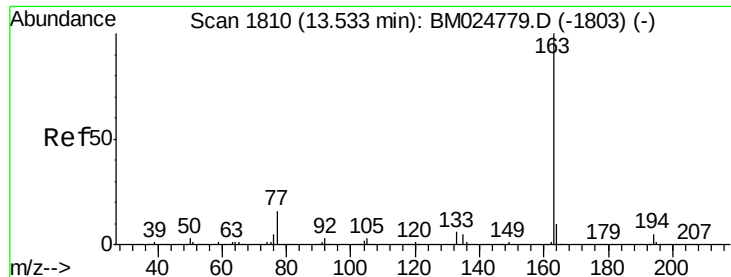
Instrument :  
BNA\_M  
ClientSampleID :  
CB6G8

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Quant Time: Feb 10 14:12:41 2020  
Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM020620MA.M  
Quant Title : SVOA CALIBRATION  
QLast Update : Fri Feb 07 22:29:17 2020  
Response via : Initial Calibration





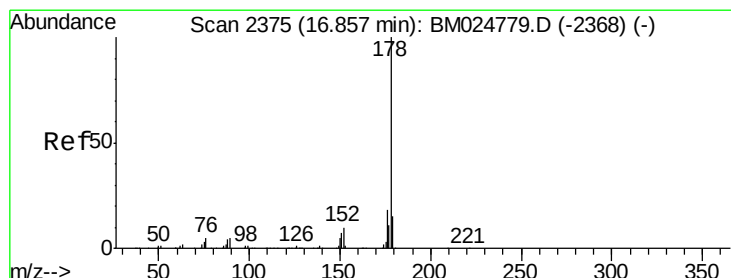
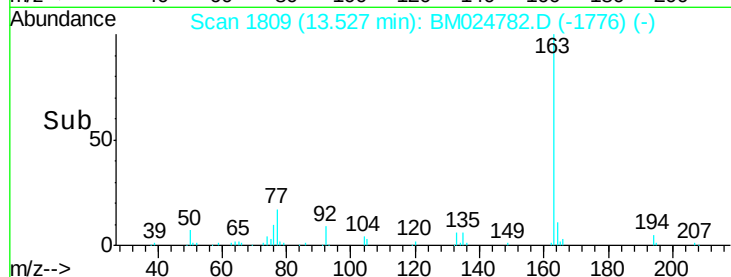
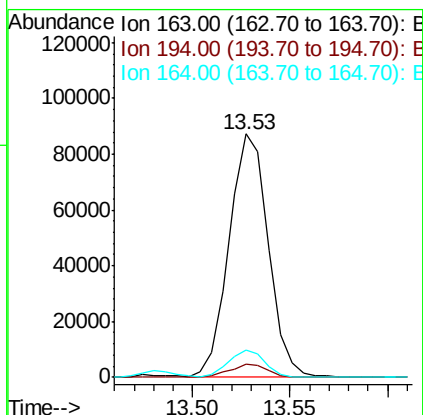
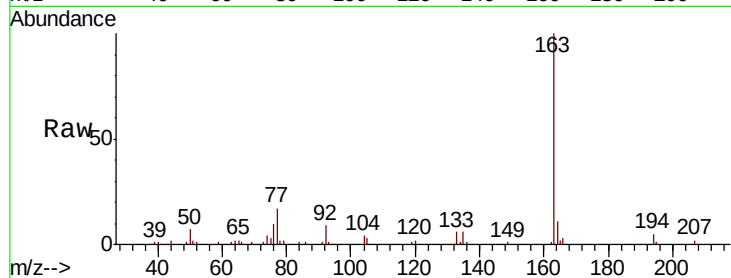
#45  
Dimethylphthalate  
Concen: 1.854 ng/ul  
RT: 13.53 min Scan# 1809  
Delta R.T. -0.01 min  
Lab File: BM024782.D  
Acq: 08 Feb 2020 04:17

Instrument :  
BNA\_M  
ClientSampled :  
CB6G8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 163     | 100   |       |       |
| 194     | 5.4   | 3.5   | 5.3#  |
| 164     | 11.4  | 8.2   | 12.2  |

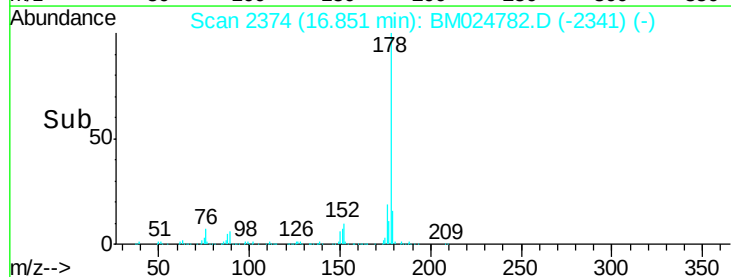
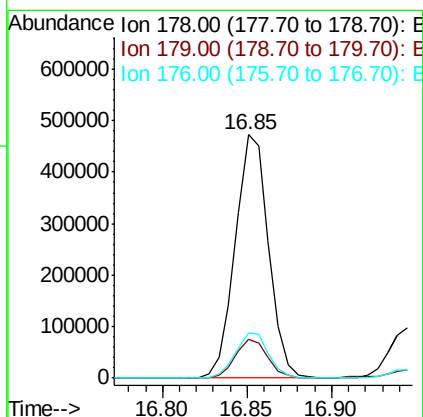
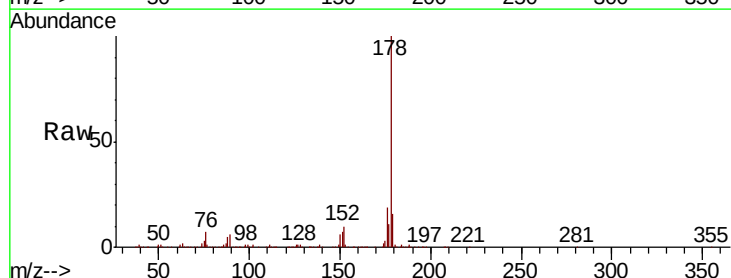
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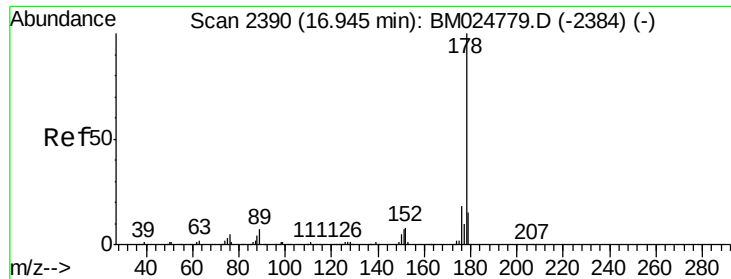
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#70  
Phenanthrene  
Concen: 6.386 ng/ul  
RT: 16.85 min Scan# 2374  
Delta R.T. -0.01 min  
Lab File: BM024782.D  
Acq: 08 Feb 2020 04:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 15.7  | 12.2  | 18.2  |
| 176     | 18.6  | 14.5  | 21.7  |





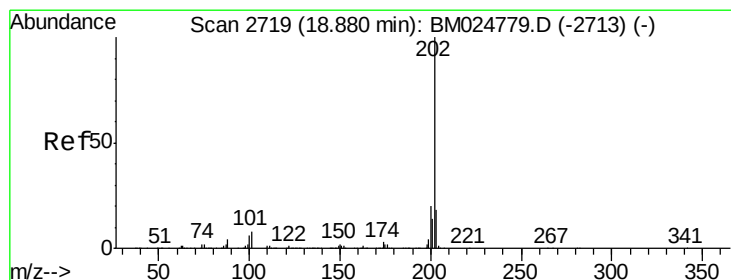
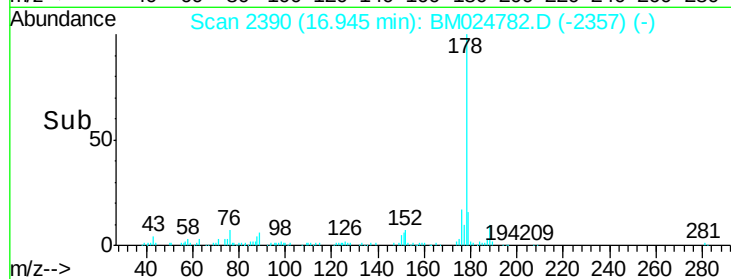
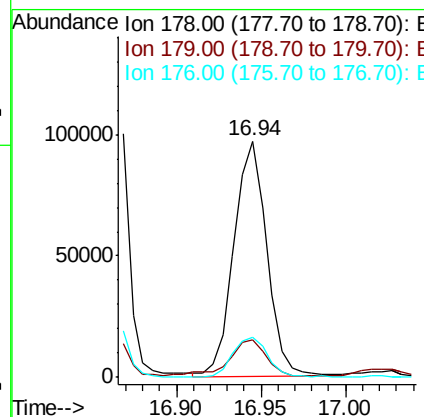
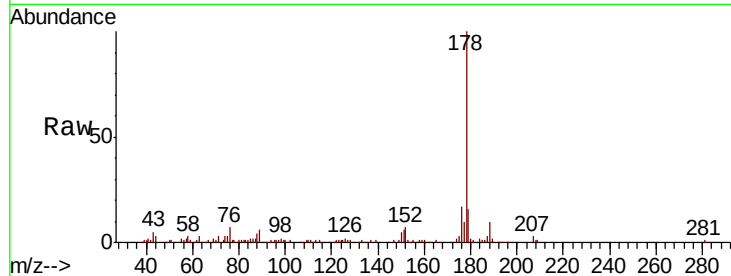
#72  
 Anthracene  
 Concen: 1.283 ng/ul  
 RT: 16.94 min Scan# 2390  
 Delta R.T. -0.01 min  
 Lab File: BM024782.D  
 Acq: 08 Feb 2020 04:17

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB6G8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 179     | 16.1  | 12.3  | 18.5  |
| 176     | 17.0  | 14.1  | 21.1  |

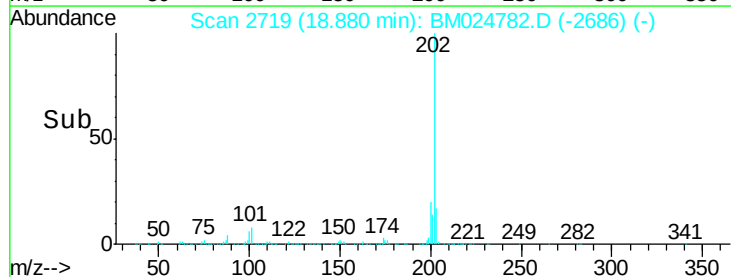
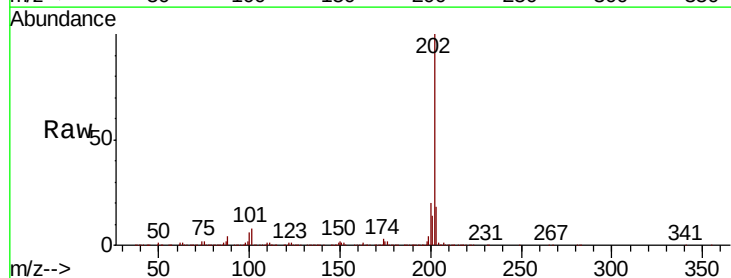
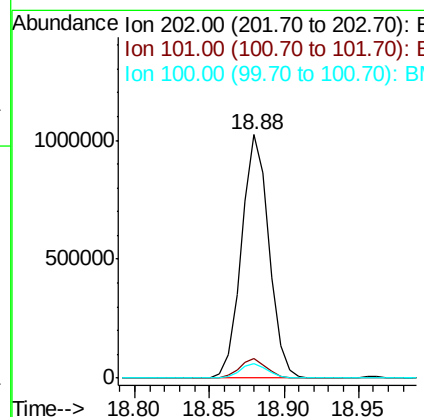
Manual Integrations  
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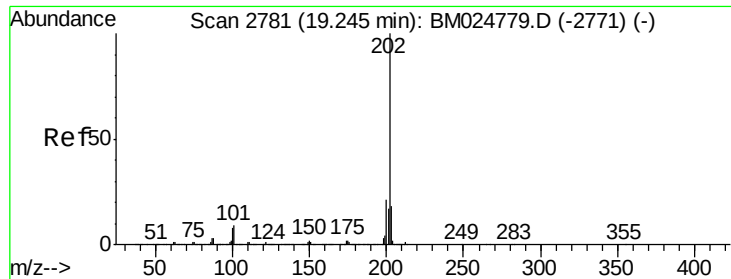
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#77  
 Fluoranthene  
 Concen: 10.529 ng/ul  
 RT: 18.88 min Scan# 2719  
 Delta R.T. -0.01 min  
 Lab File: BM024782.D  
 Acq: 08 Feb 2020 04:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 7.9   | 6.1   | 9.1   |
| 100     | 5.8   | 4.8   | 7.2   |





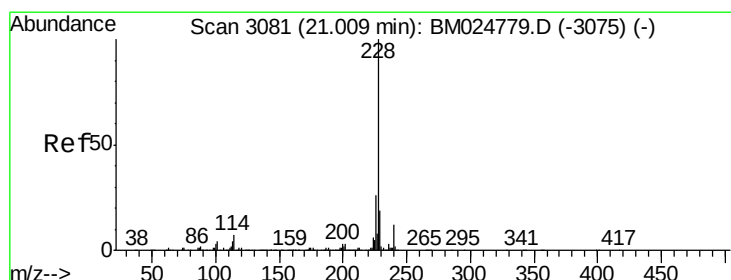
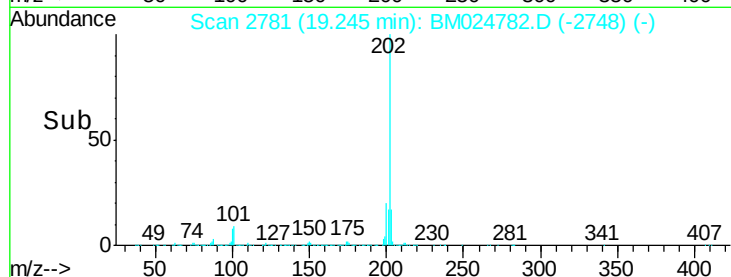
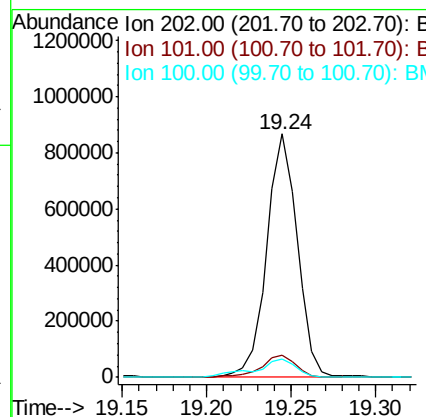
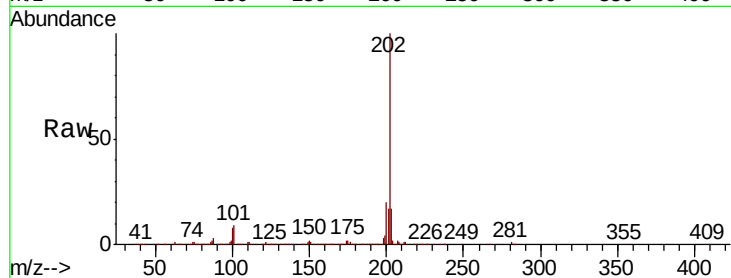
#80  
 Pvrene  
 Concen: 8.778 ng/ul  
 RT: 19.24 min Scan# 2781  
 Delta R.T. -0.01 min  
 Lab File: BM024782.D  
 Acq: 08 Feb 2020 04:17

Instrument :  
 BNA\_M  
 ClientSampleID :  
 CB6G8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.1   | 7.0   | 10.4  |
| 100     | 7.6   | 5.8   | 8.8   |

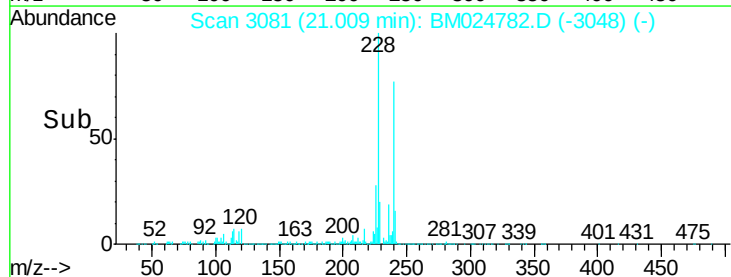
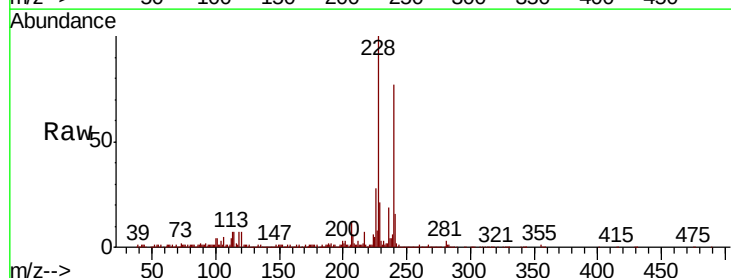
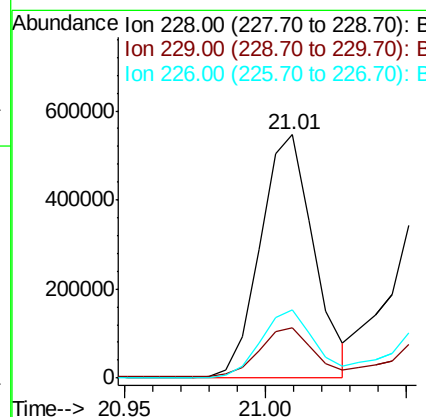
Manual Integrations  
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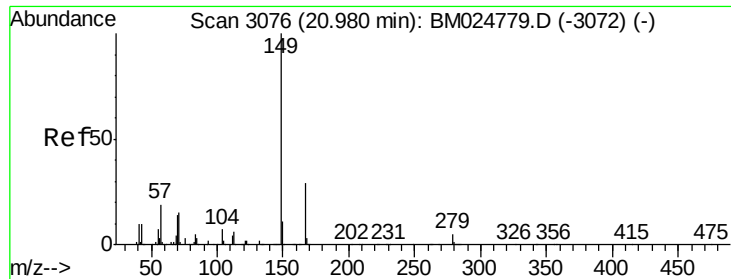
mohammad  
 2/11/2020 8:22:16 AM



#83  
 Benzo(a)anthracene  
 Concen: 5.637 ng/ul  
 RT: 21.01 min Scan# 3081  
 Delta R.T. -0.01 min  
 Lab File: BM024782.D  
 Acq: 08 Feb 2020 04:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 229     | 20.6  | 15.9  | 23.9  |
| 226     | 28.2  | 20.8  | 31.2  |





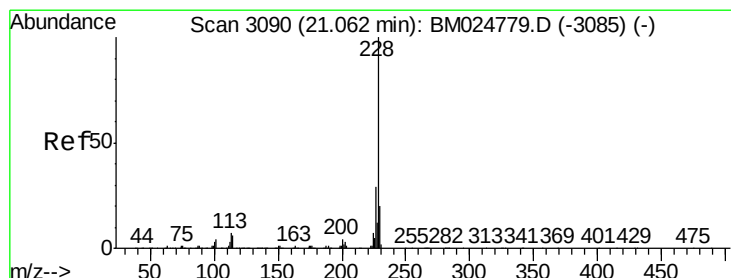
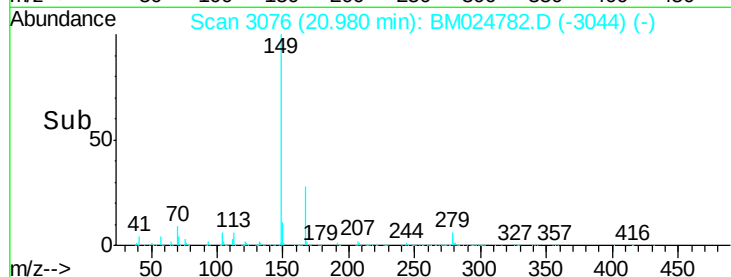
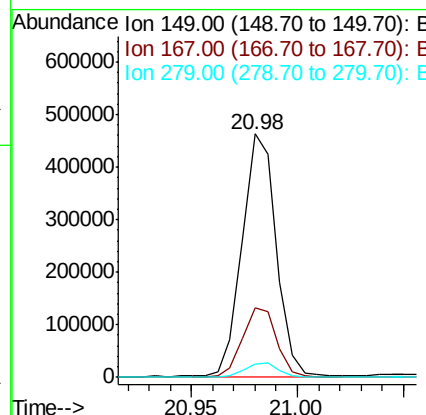
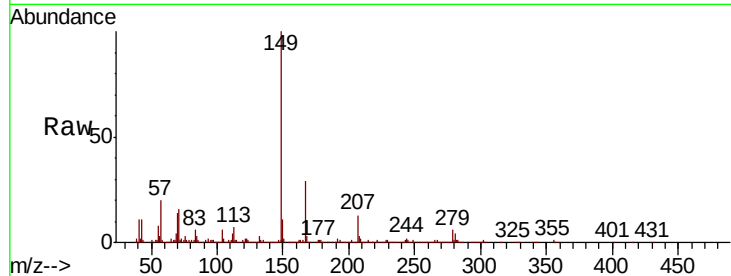
#84  
 Bis(2-ethylhexyl)phthalate  
 Concen: 6.986 ng/ul  
 RT: 20.98 min Scan# 3076  
 Delta R.T. -0.01 min  
 Lab File: BM024782.D  
 Acq: 08 Feb 2020 04:17

Instrument :  
 BNA\_M  
 ClientSampleId :  
 CB6G8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 28.7  | 23.4  | 35.2  |
| 279     | 5.6   | 4.7   | 7.1   |

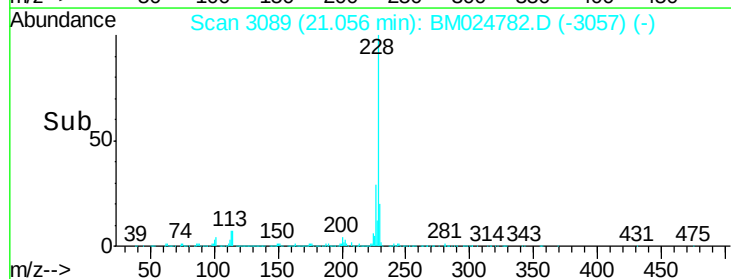
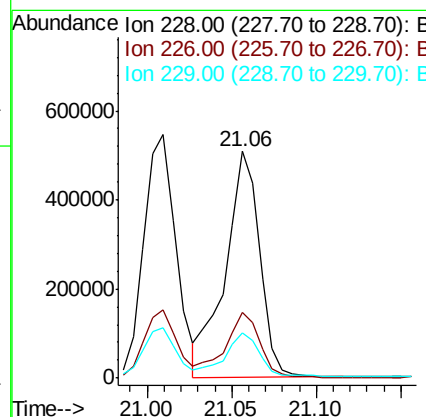
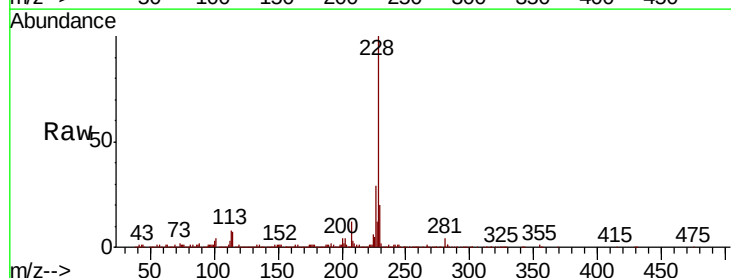
Manual Integrations  
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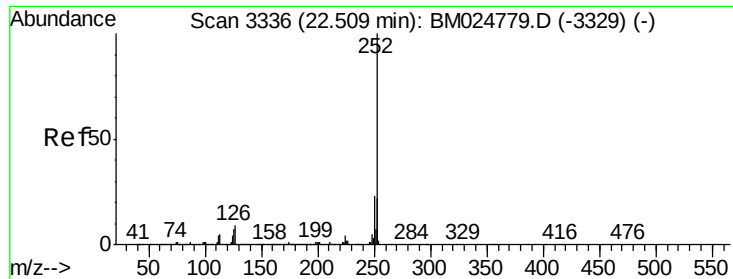
mohammad  
 2/11/2020 8:22:16 AM



#85  
 Chrysene  
 Concen: 5.747 ng/ul  
 RT: 21.06 min Scan# 3089  
 Delta R.T. -0.01 min  
 Lab File: BM024782.D  
 Acq: 08 Feb 2020 04:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.9  | 23.0  | 34.4  |
| 229     | 20.1  | 15.8  | 23.8  |





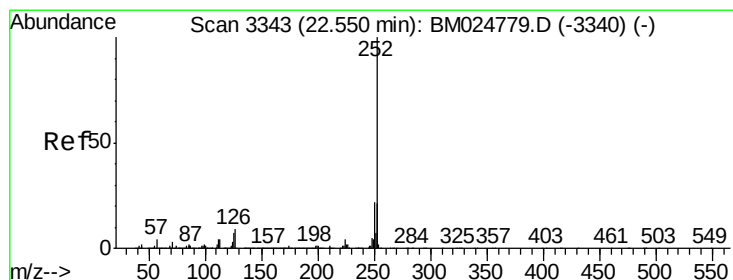
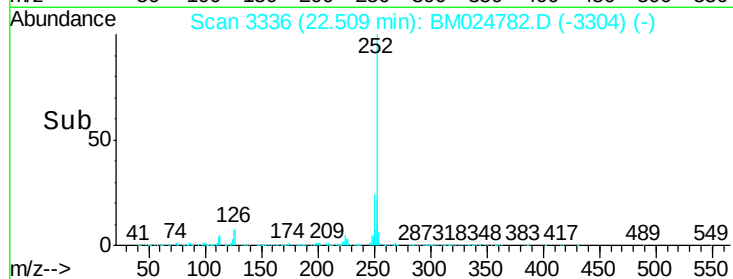
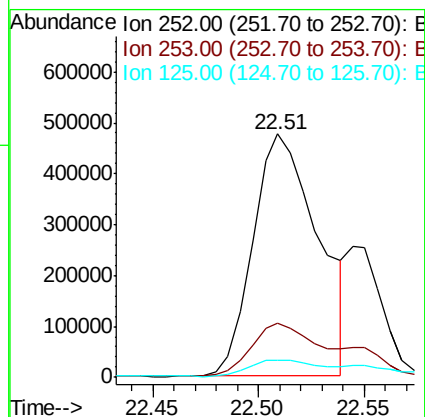
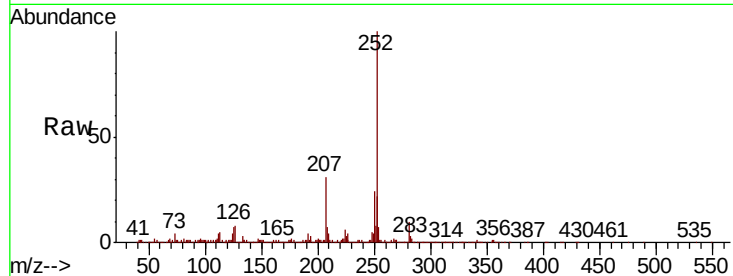
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Benzo(b)fluoranthene  
Concen: 8.334 ng/ul  
RT: 22.51 min Scan# 3336  
Delta R.T. -0.01 min  
Lab File: BM024782.D  
Acq: 08 Feb 2020 04:17

Instrument :  
BNA\_M  
ClientSampleId :  
CB6G8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.3  | 17.3  | 25.9  |
| 125     | 7.2   | 5.1   | 7.7   |

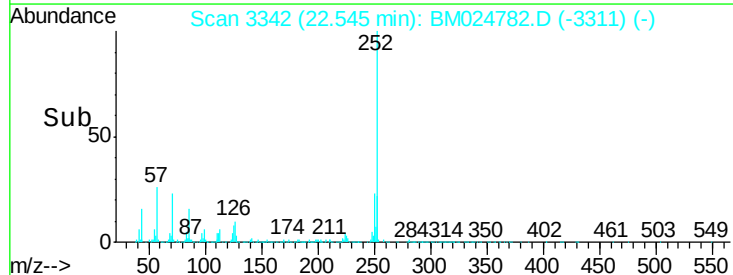
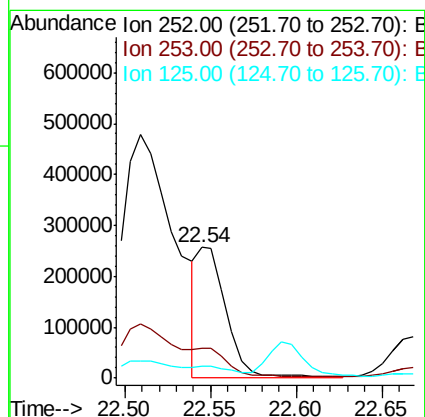
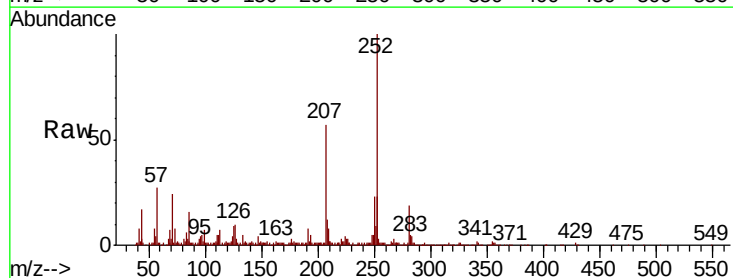
Manual Integrations  
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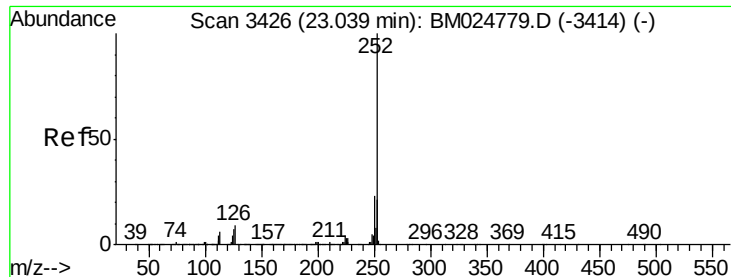
mohammad  
2/11/2020 8:22:16 AM



#89  
Benzo(k)fluoranthene  
Concen: 2.591 ng/ul m  
RT: 22.54 min Scan# 3342  
Delta R.T. -0.02 min  
Lab File: BM024782.D  
Acq: 08 Feb 2020 04:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.6  | 17.4  | 26.0  |
| 125     | 9.1   | 5.1   | 7.7#  |





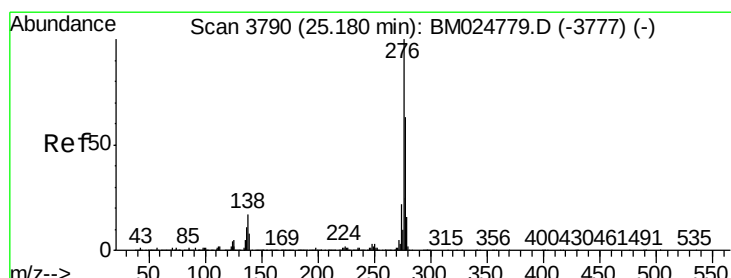
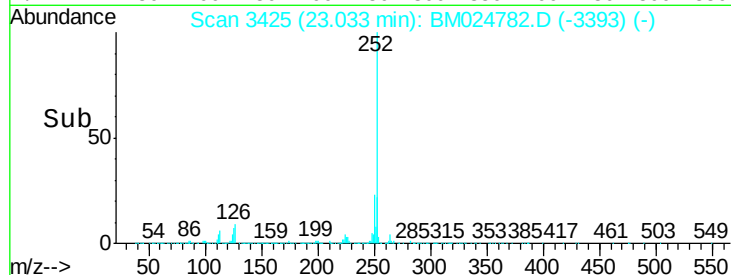
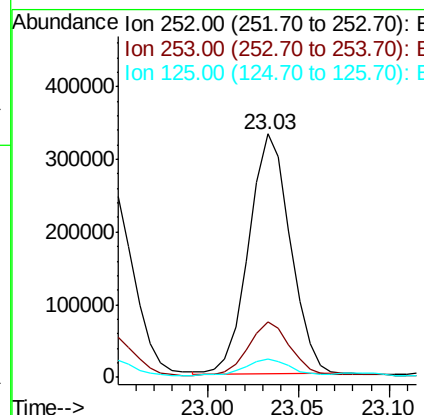
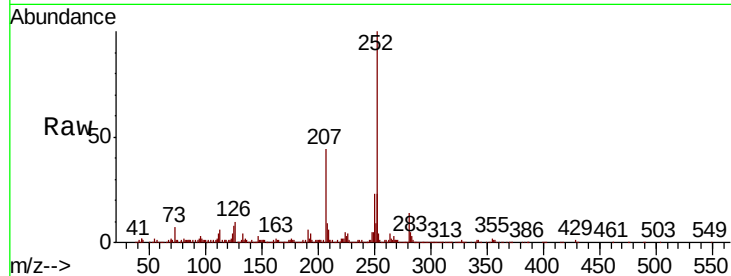
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Benzo(a)pyrene  
Concen: 4.786 ng/ul  
RT: 23.03 min Scan# 3425  
Delta R.T. -0.01 min  
Lab File: BM024782.D  
Acq: 08 Feb 2020 04:17

Instrument :  
BNA\_M  
ClientSampleId :  
CB6G8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 22.7  | 17.5  | 26.3  |
| 125     | 7.6   | 5.6   | 8.4   |

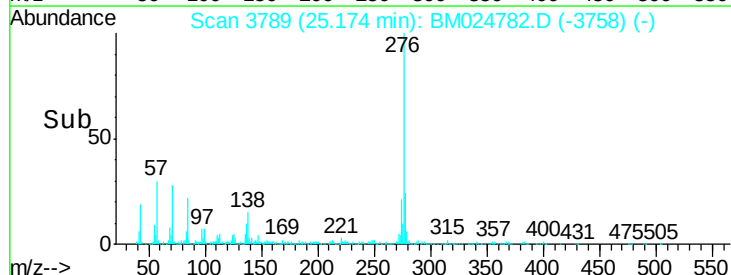
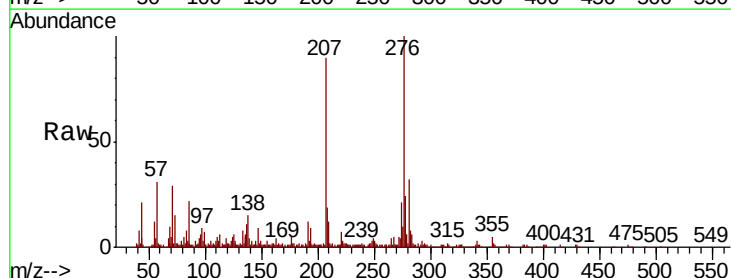
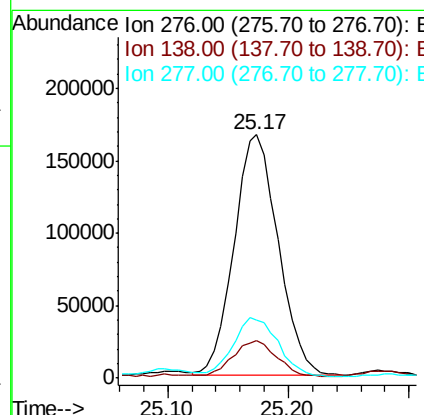
Manual Integrations  
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mohammad  
2/11/2020 8:22:16 AM

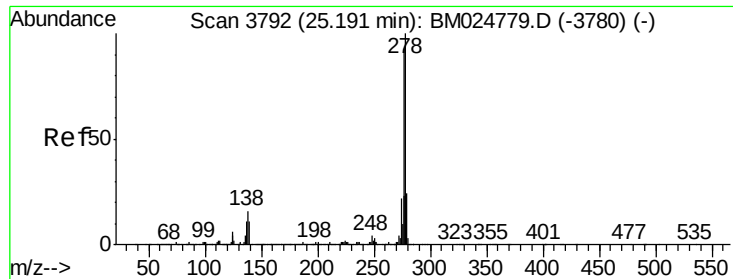


#92  
Indeno(1,2,3-cd)pyrene  
Concen: 3.086 ng/ul  
RT: 25.17 min Scan# 3789  
Delta R.T. -0.02 min  
Lab File: BM024782.D  
Acq: 08 Feb 2020 04:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.4  | 12.8  | 19.2  |
| 277     | 24.0  | 19.3  | 28.9  |







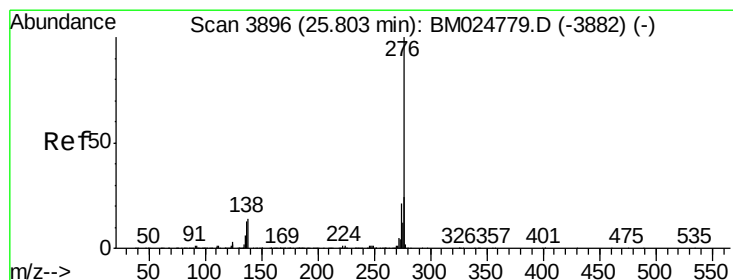
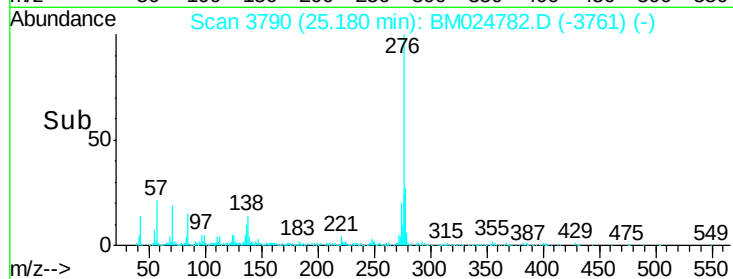
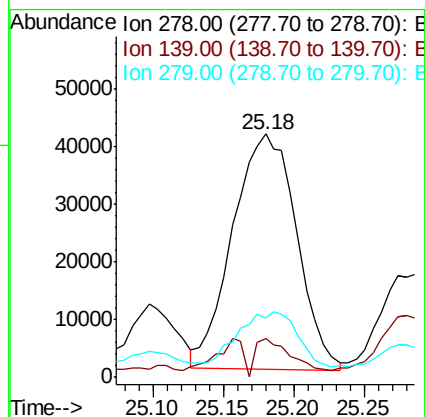
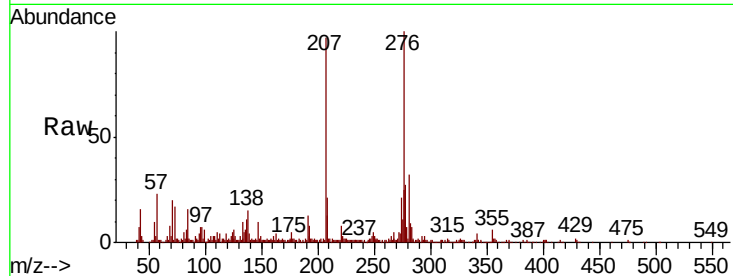
#93  
Dibenzo(a,h)anthracene  
Concen: 1.101 ng/ul  
RT: 25.18 min Scan# 3790  
Delta R.T. -0.03 min  
Lab File: BM024782.D  
Acq: 08 Feb 2020 04:17

Instrument :  
BNA\_M  
ClientSampled :  
CB6G8

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 16.0  | 8.4   | 12.6# |
| 279     | 24.6  | 18.5  | 27.7  |

Manual Integrations  
APPROVED

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2/11/2020 8:22:16 AM



#94  
Benzo(g,h,i)perylene  
Concen: 2.790 ng/ul  
RT: 25.80 min Scan# 3895  
Delta R.T. -0.02 min  
Lab File: BM024782.D  
Acq: 08 Feb 2020 04:17

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 15.7  | 11.8  | 17.6  |
| 277     | 25.6  | 19.0  | 28.6  |

